

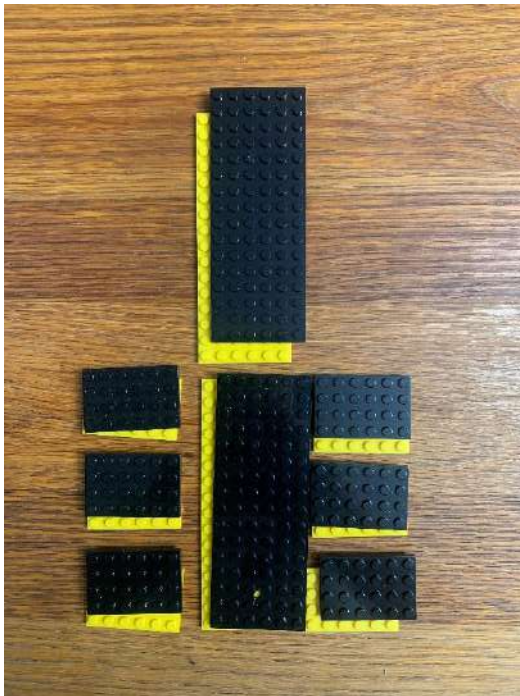
Step 1 – Determine Design and Size

Determine the color/design and size of your violin.

In general, three types of plates in two colors (primary and secondary color) are included, therefore you need to determine the color/design of your violin first.

Put the plates as seen in example below so you get an idea of the end result. Black and yellow combination is used as example, your package may be in other color combination. The options are as follows but not limited to,

Pure black



Spine in black and yellow side



Step 1 – Violin Design

Determin the colour/design and size of your violin

Place violin neck on top to view end result



There may be other colour combinations, you can even use your own lego pieces as long as it is the same spec as the corresponding one in this document.



Step 1 – Violin Size

With the same set of build blocks and parts, you can build different sizes of violin, namely 1/8 and 1/4. You can refer to this chart for your violin size.

(VIOLIN CHART)									
Size	4/4 full size	7/8	3/4	1/2	1/4	1/8	1/10	1/16	1/32
Age	11+ and adults	10+ and adults	9-11	7-9	6-7	5-6	4-5	5 years and under	
Arm length CM (neck to mid-palm)	58,5	57,5	56	51	47	42	38	35,5	35 and under
Arm length INCH	23	22	22	20	18	16	15	14	14 and under
Total violin length CM	59	57	55	52	48	43	39	36	33
Total violin length INCH	23	22	22	20	19	17	15	14	13
Violin body length CM	36	34,5	33	30	28	25	23	21	18
Violin body length INCH	14	13,5	13	12	11	10	9	8	7



For demonstration purposes, we will build 1/8 size of the design to the left.

For 1/4 size, please go through page 20 - end

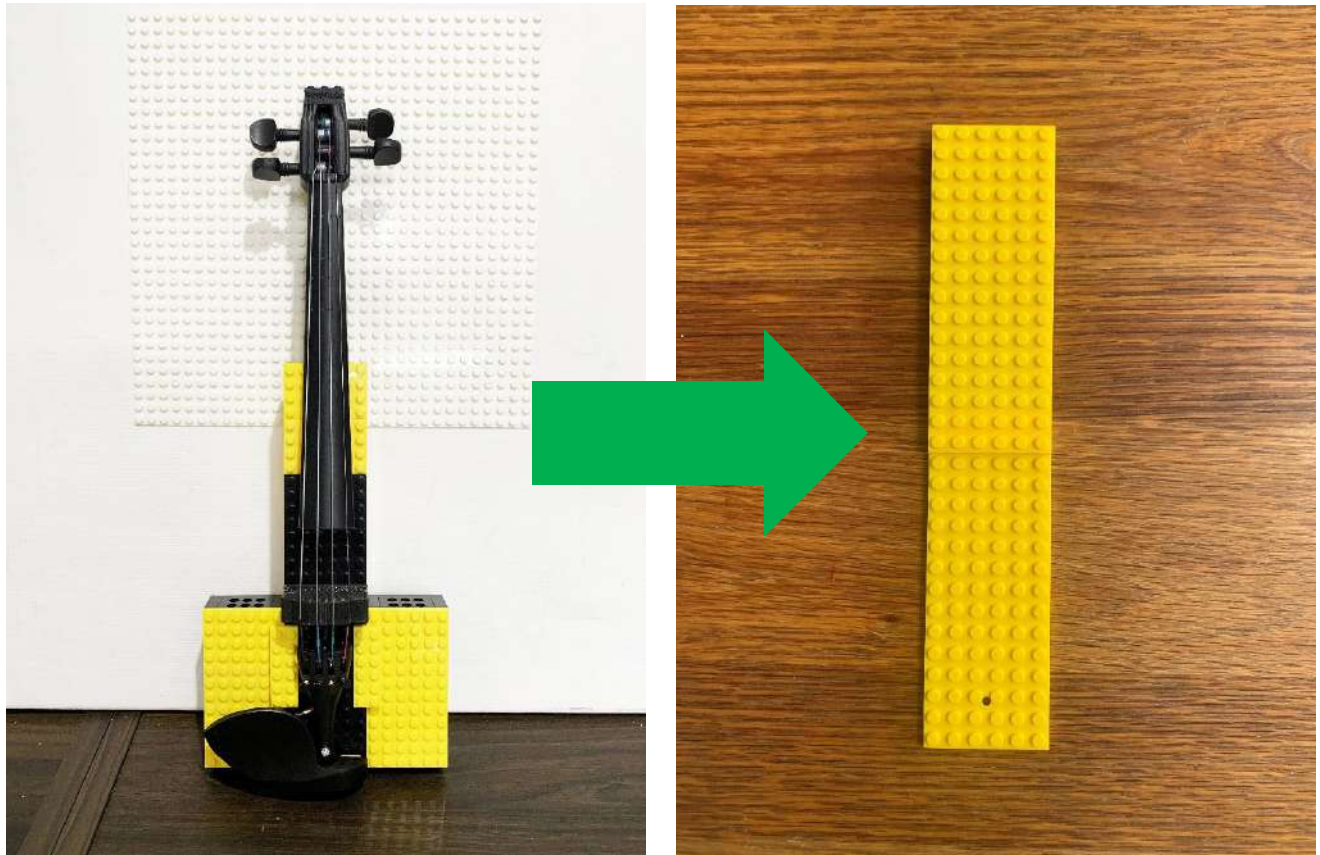


Step 2

Build spine of the violin.

1/8 size spine

In this example, we will build the violin as below, therefore yellow plate is the back plate of the spine.

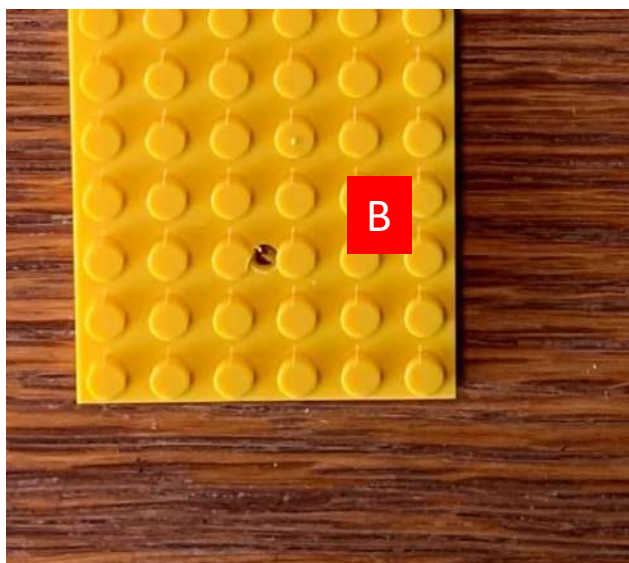
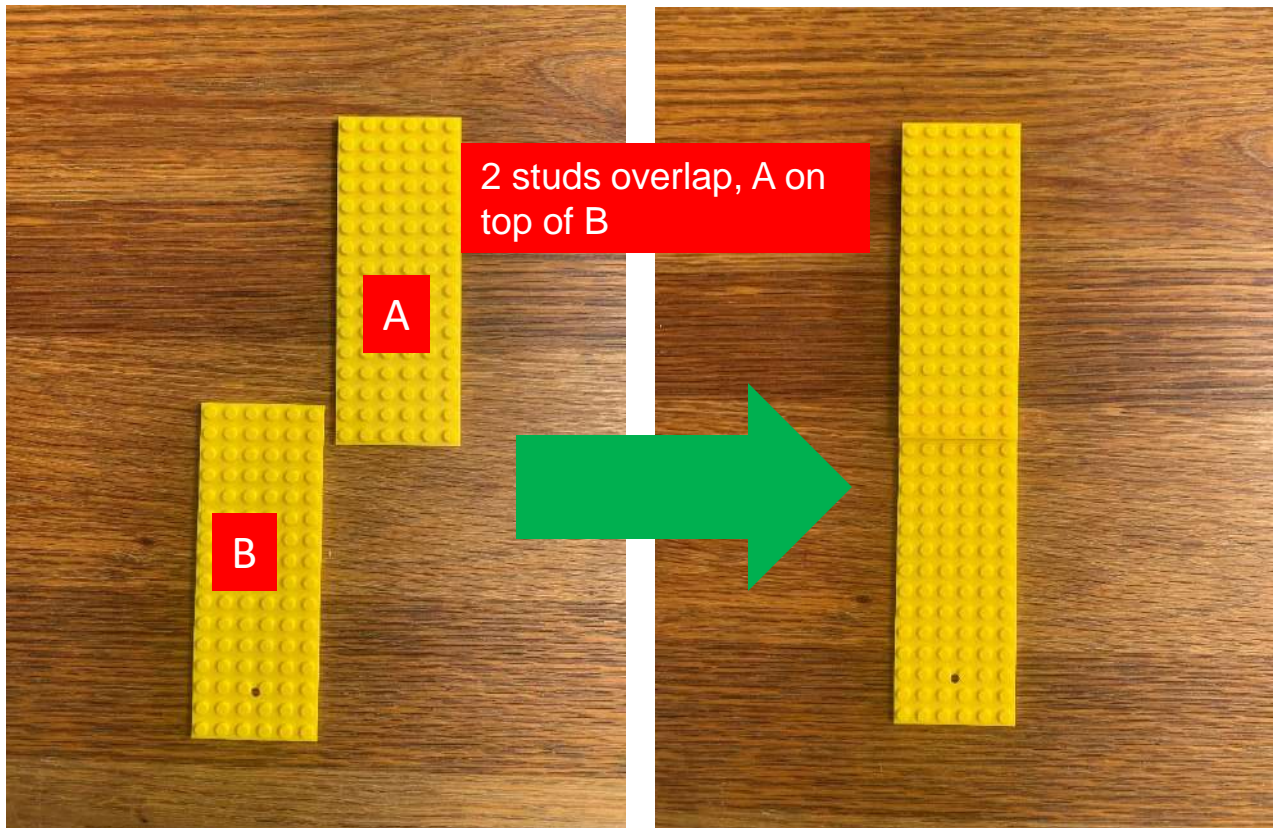


Step 2

Build spine of the violin.

1/8 size spine

Step 2a – lay out base of the back plate



Note:

Make sure the bottom plate (B) is the one with hole at the lower half of the plate.

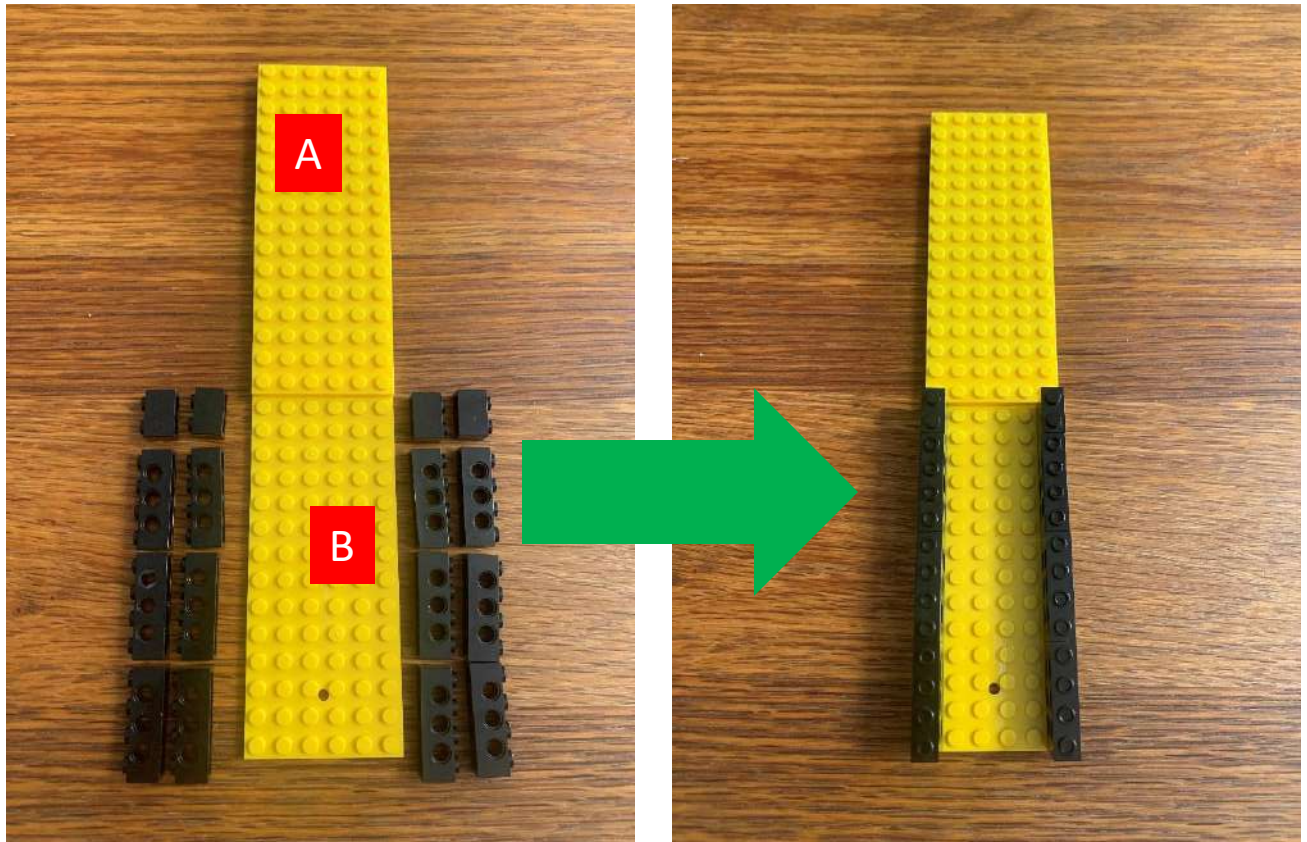


Step 2

Build spine of the violin.

1/8 size spine

Step 2b – Conenct A and B

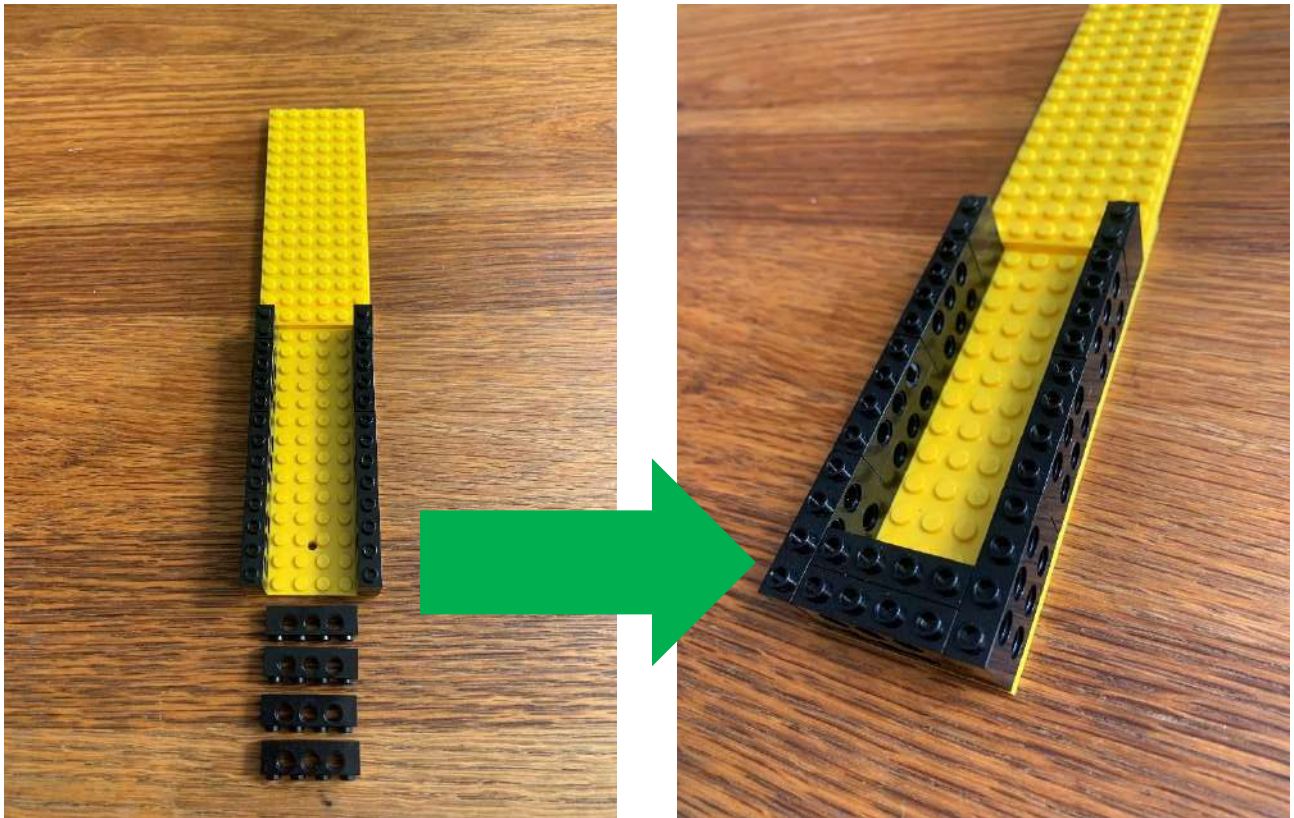


Step 2

Build spine of the violin.

1/8 size spine

Step 2c

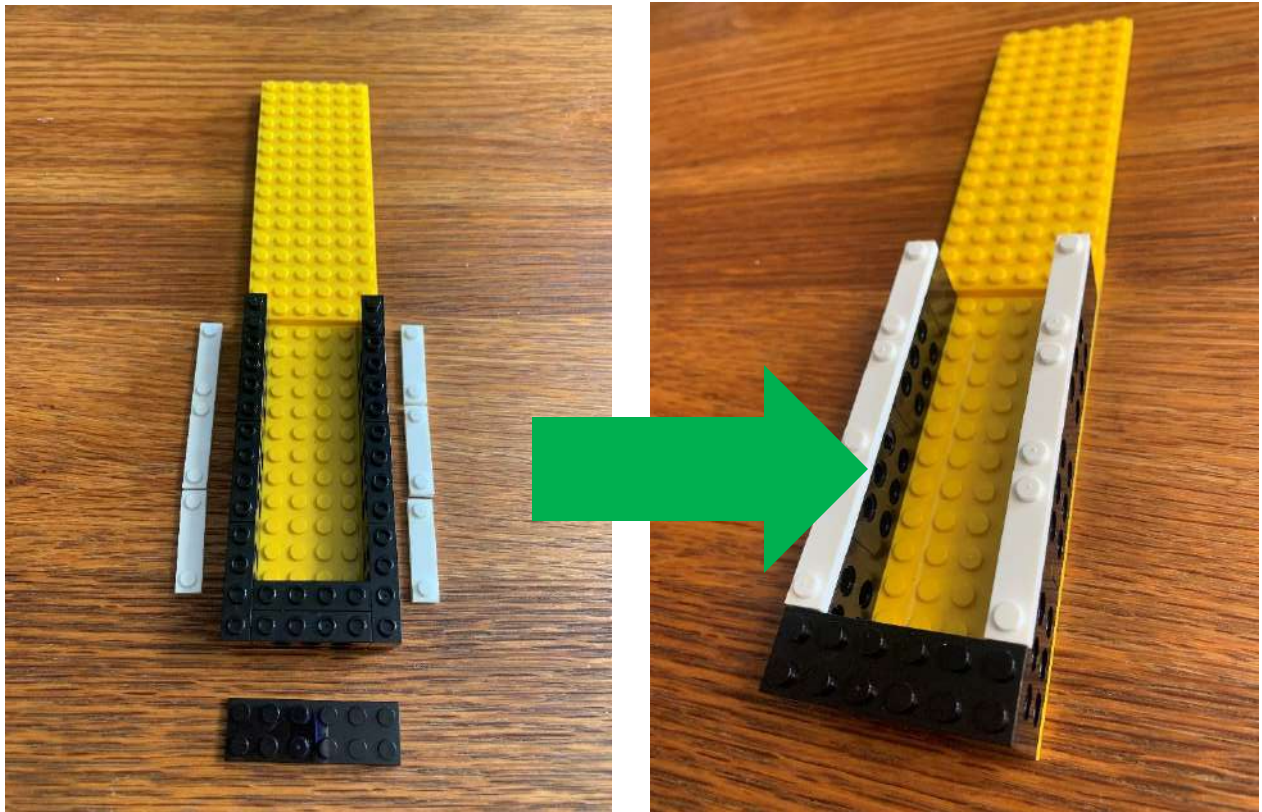


Step 2

Build spine of the violin.

1/8 size spine

Step 2d

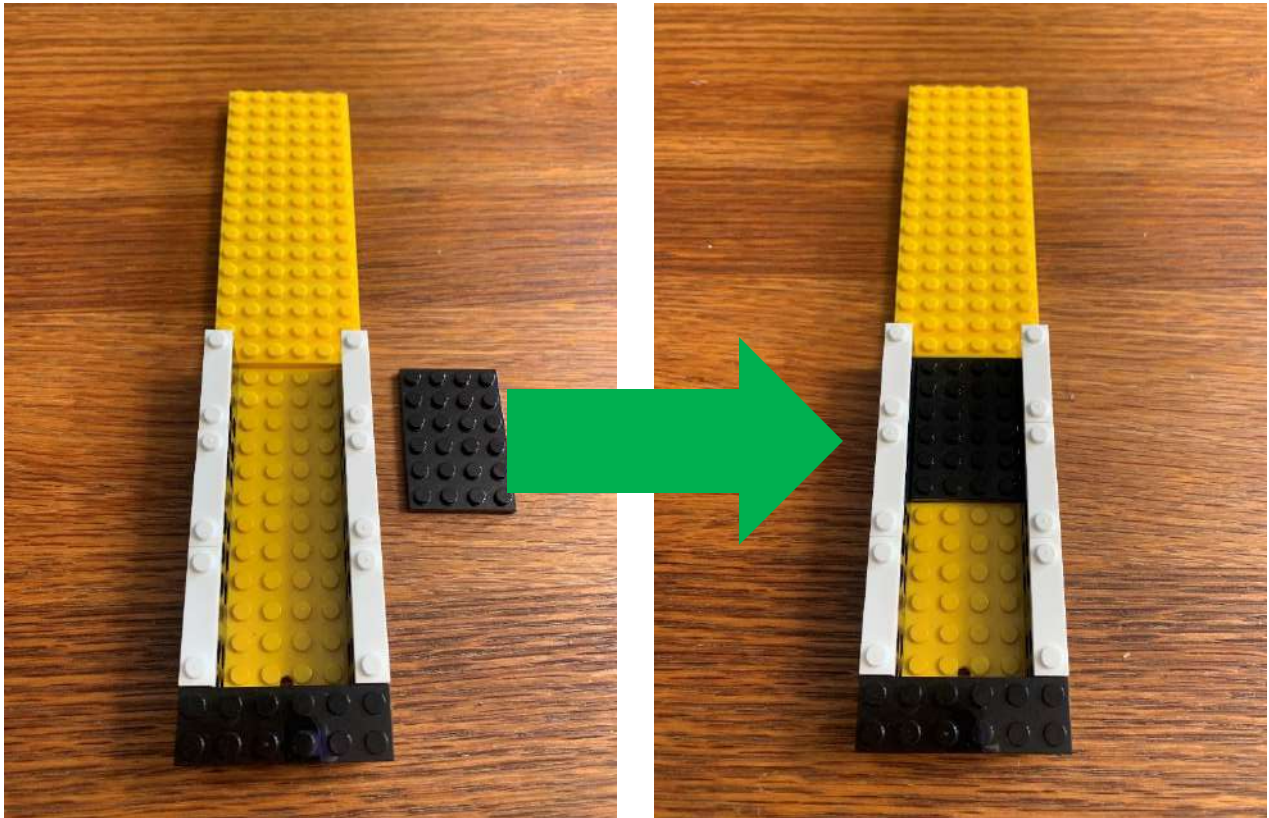


Step 2

Build spine of the violin.

1/8 size spine

Step 2e

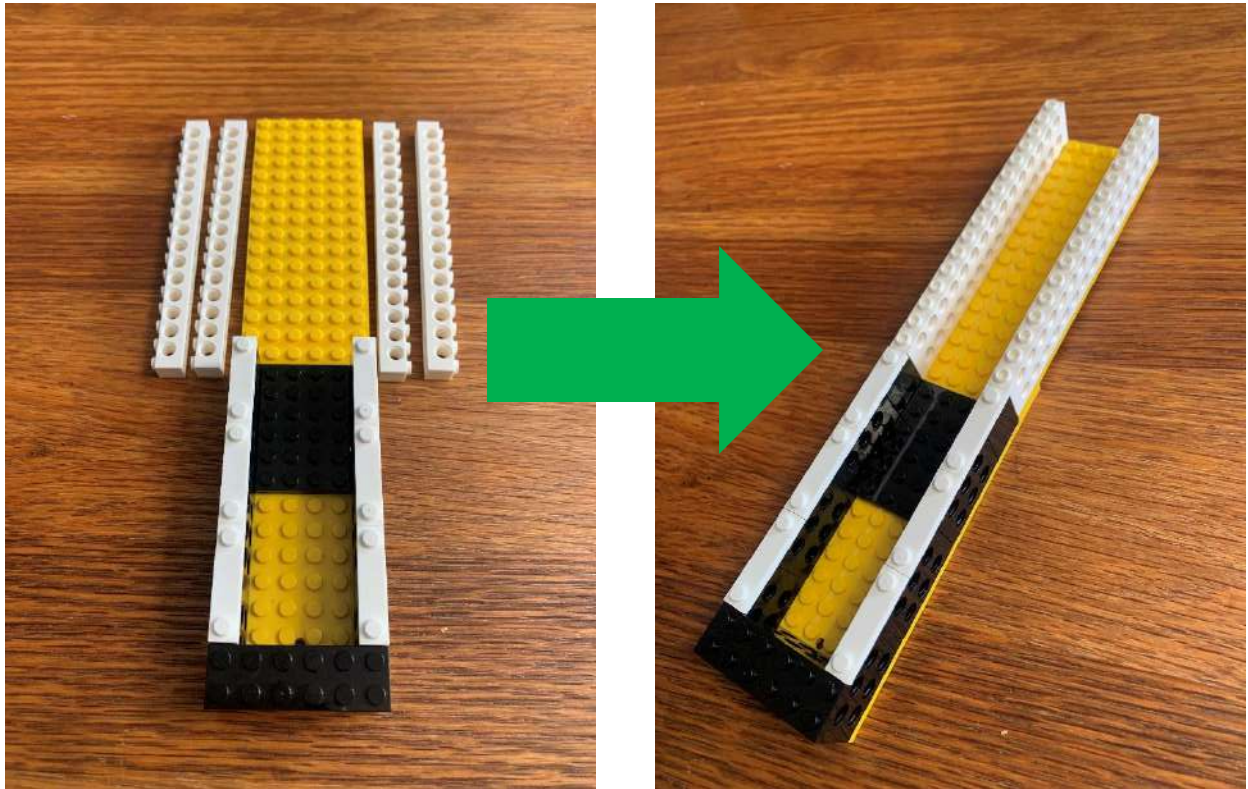


Step 2

Build spine of the violin.

1/8 size spine

Step 2f

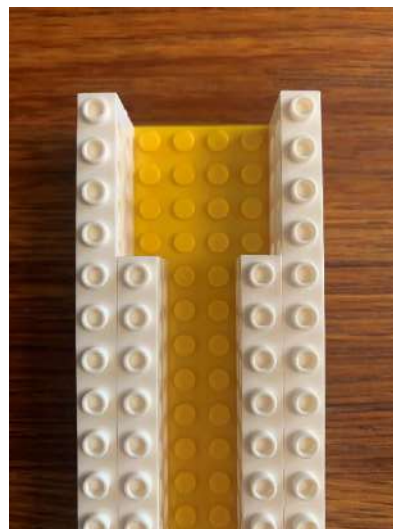
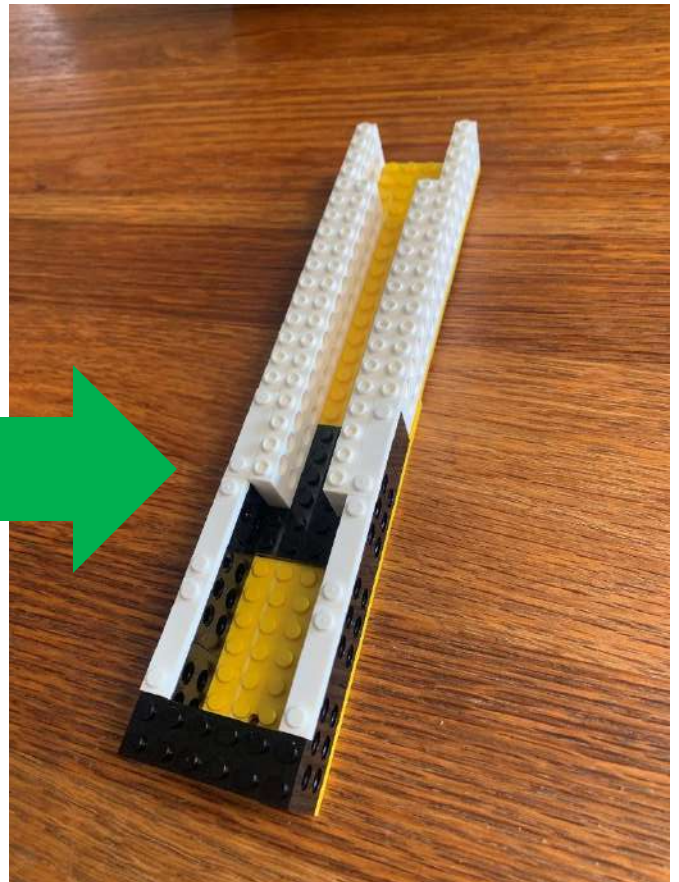
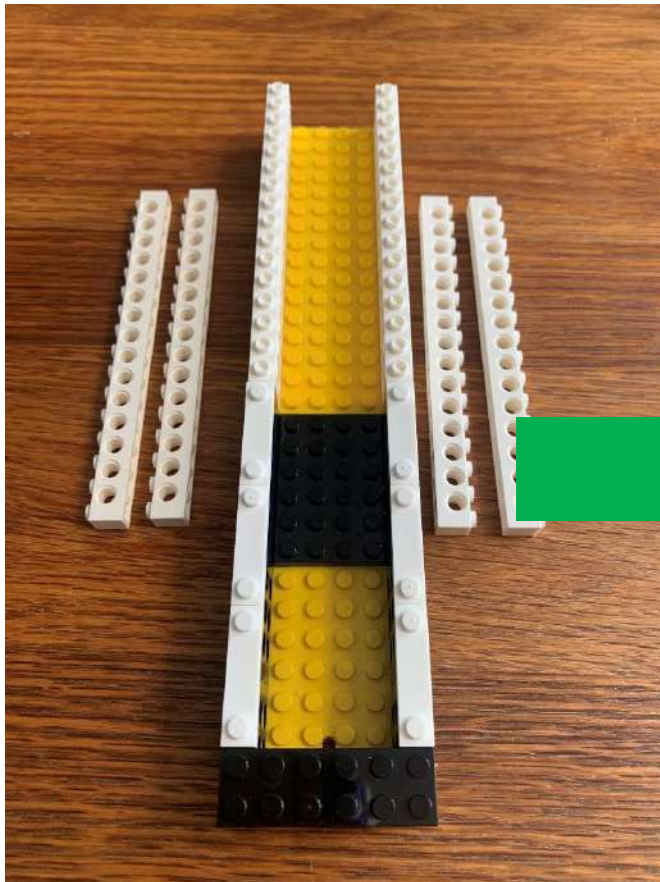


Step 2

Build spine of the violin.

1/8 size spine

Step 2g

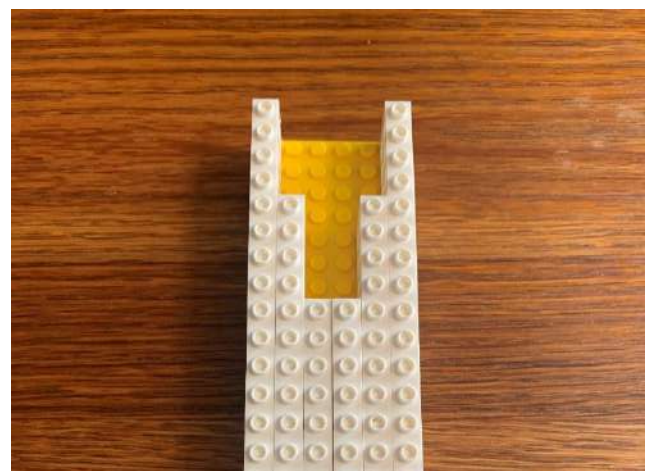
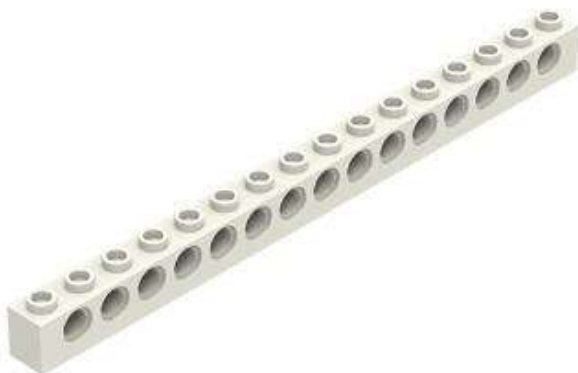
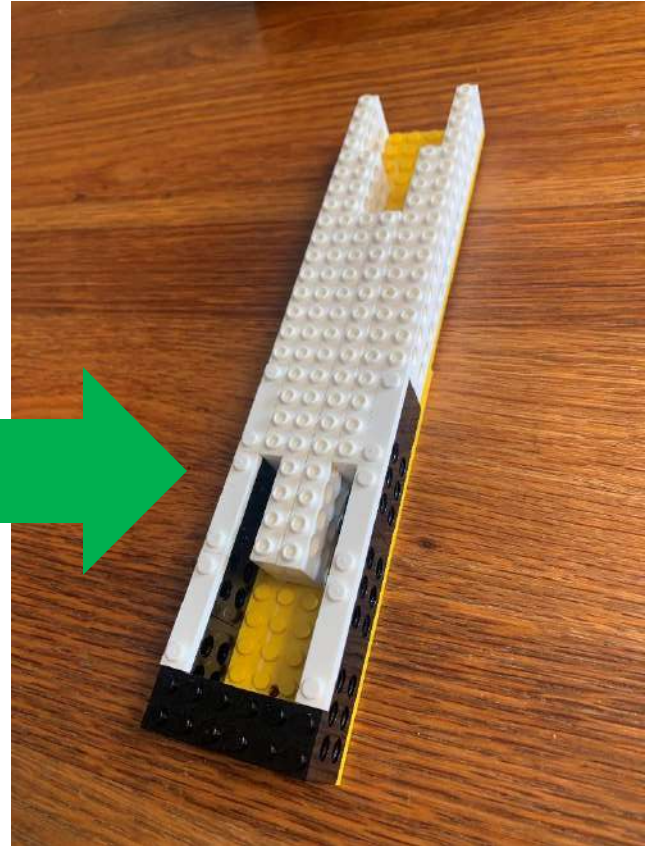
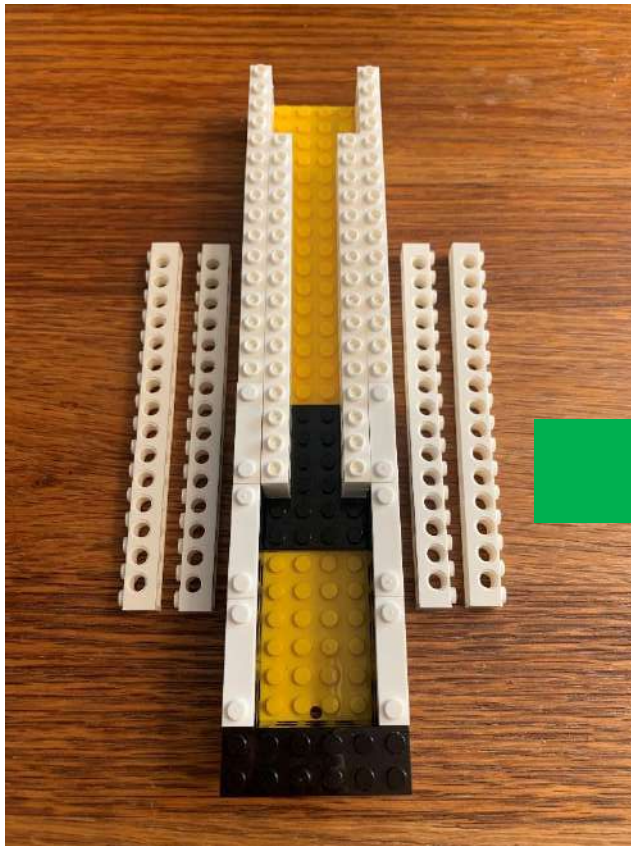


Step 2

Build spine of the violin..

1/8 size spine

Step 2h

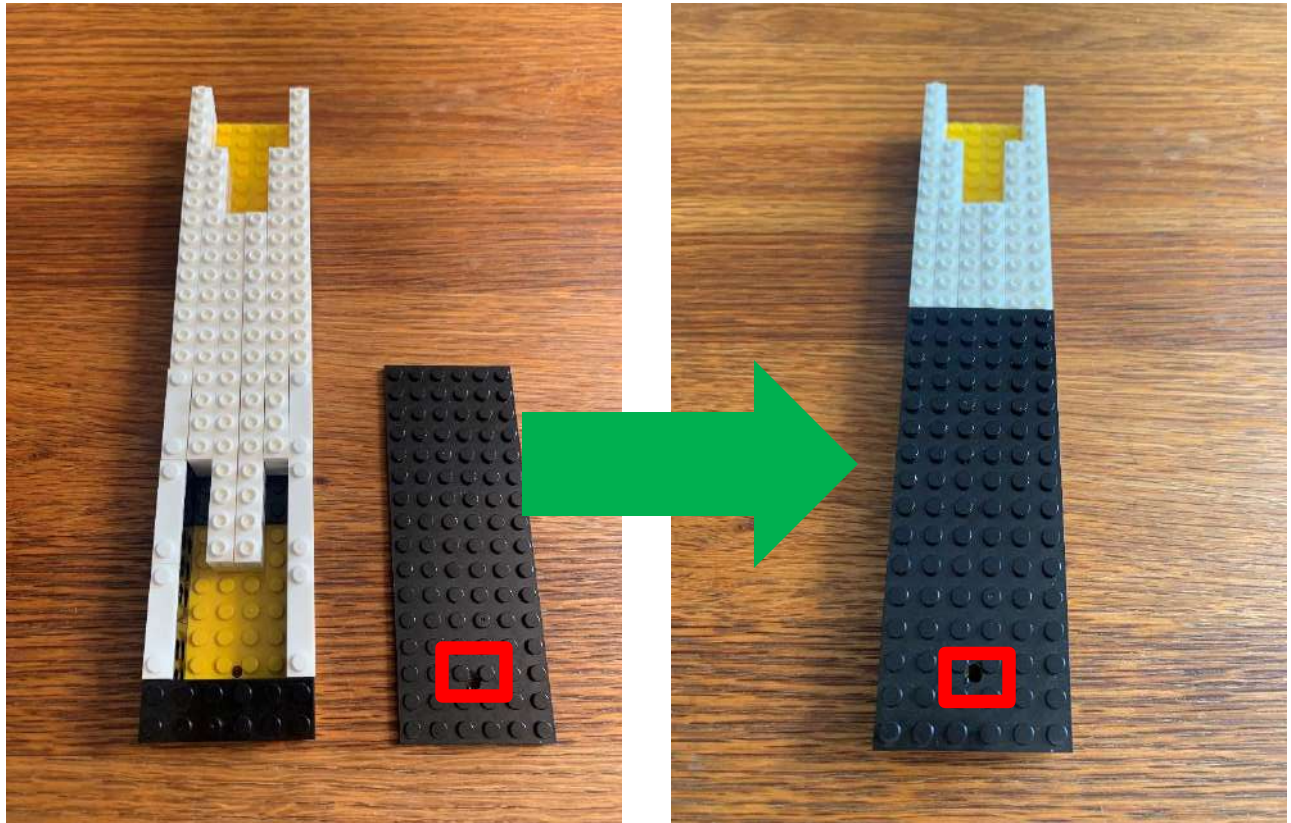


Step 2

Build spine of the violin.

1/8 size spine

Step 2i



Note:

Make sure the bottom plate is the one with hole at the lower half of the plate.

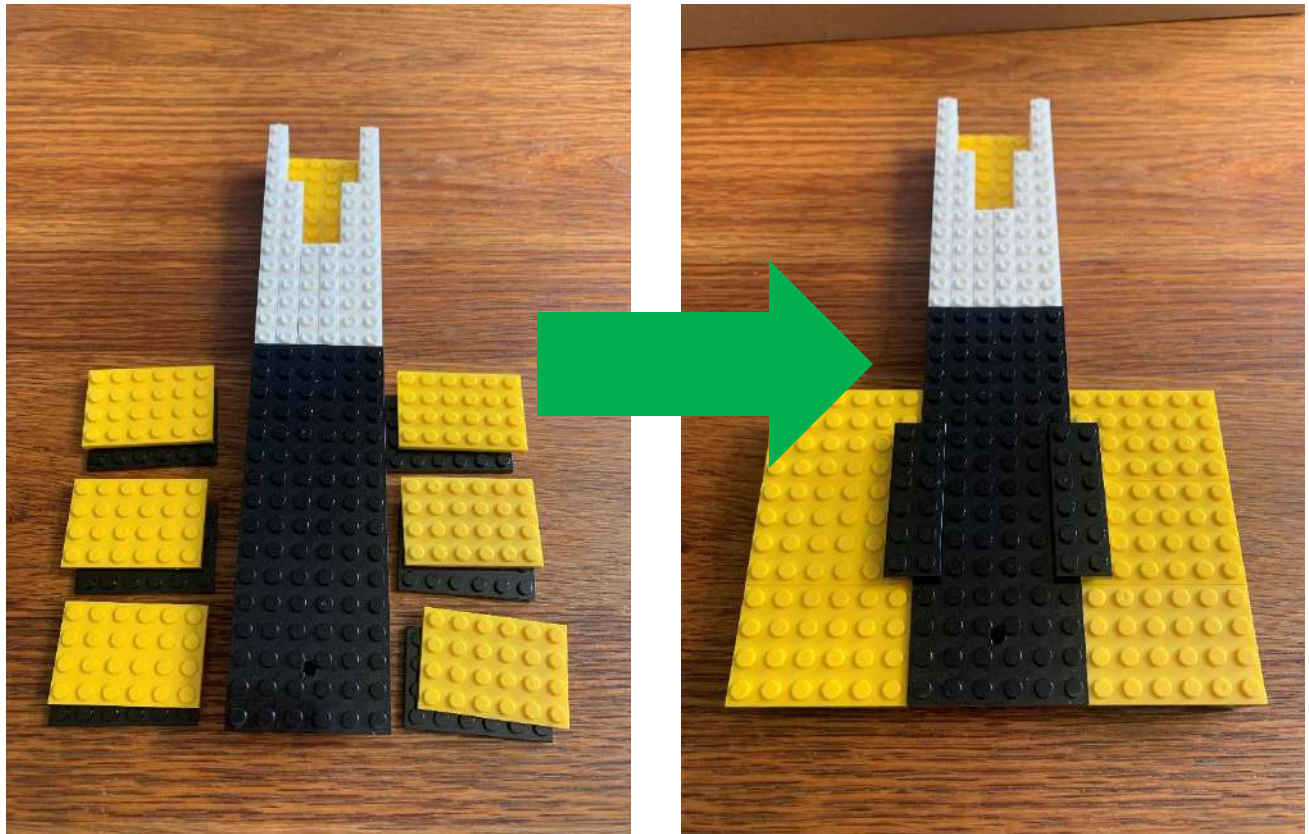


Step 2

Build side boxes

1/8 size spine

Step 2j



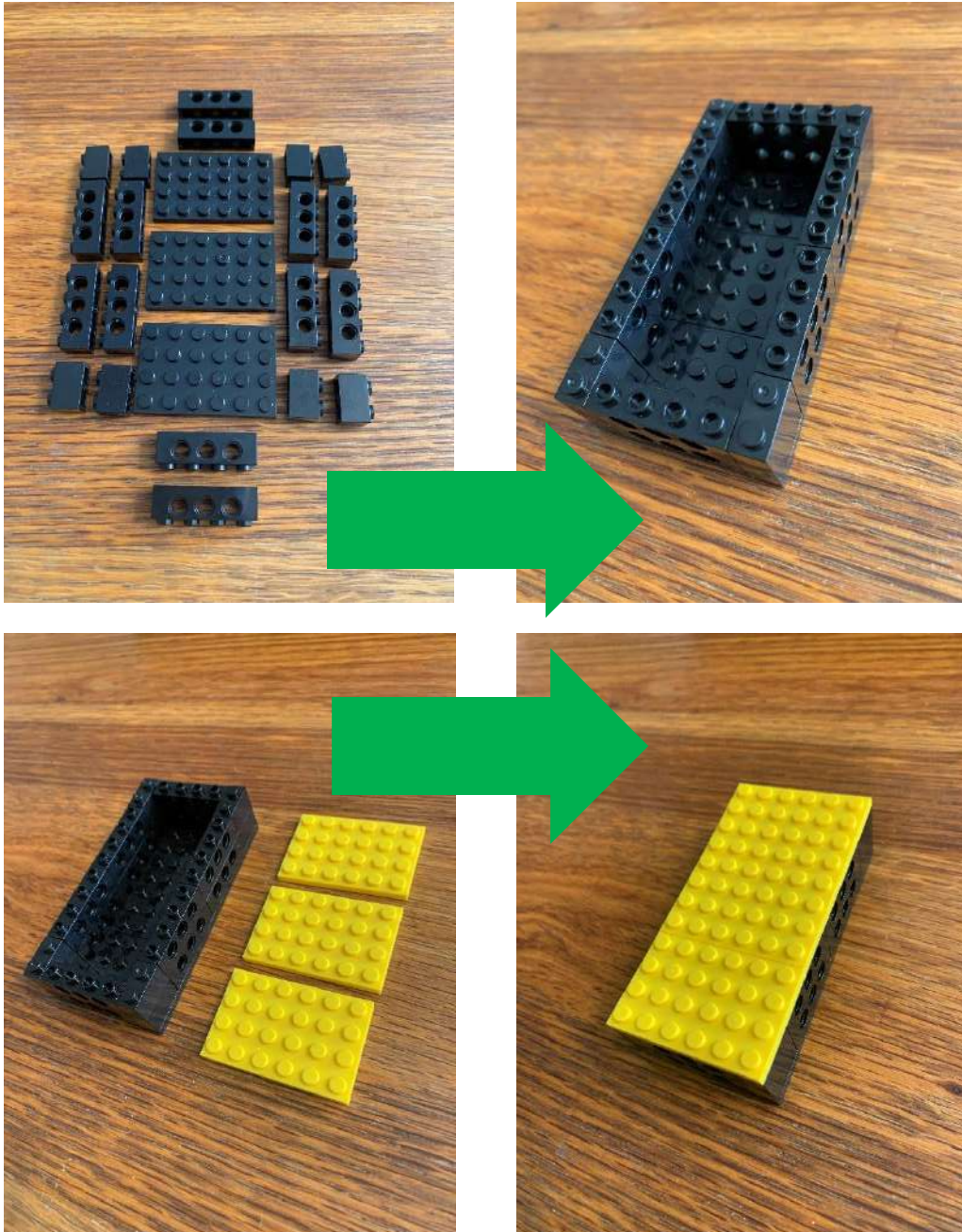
Step 2

Build side boxes

1/8 size spine

Step 2k

Repeat same procedures for second box

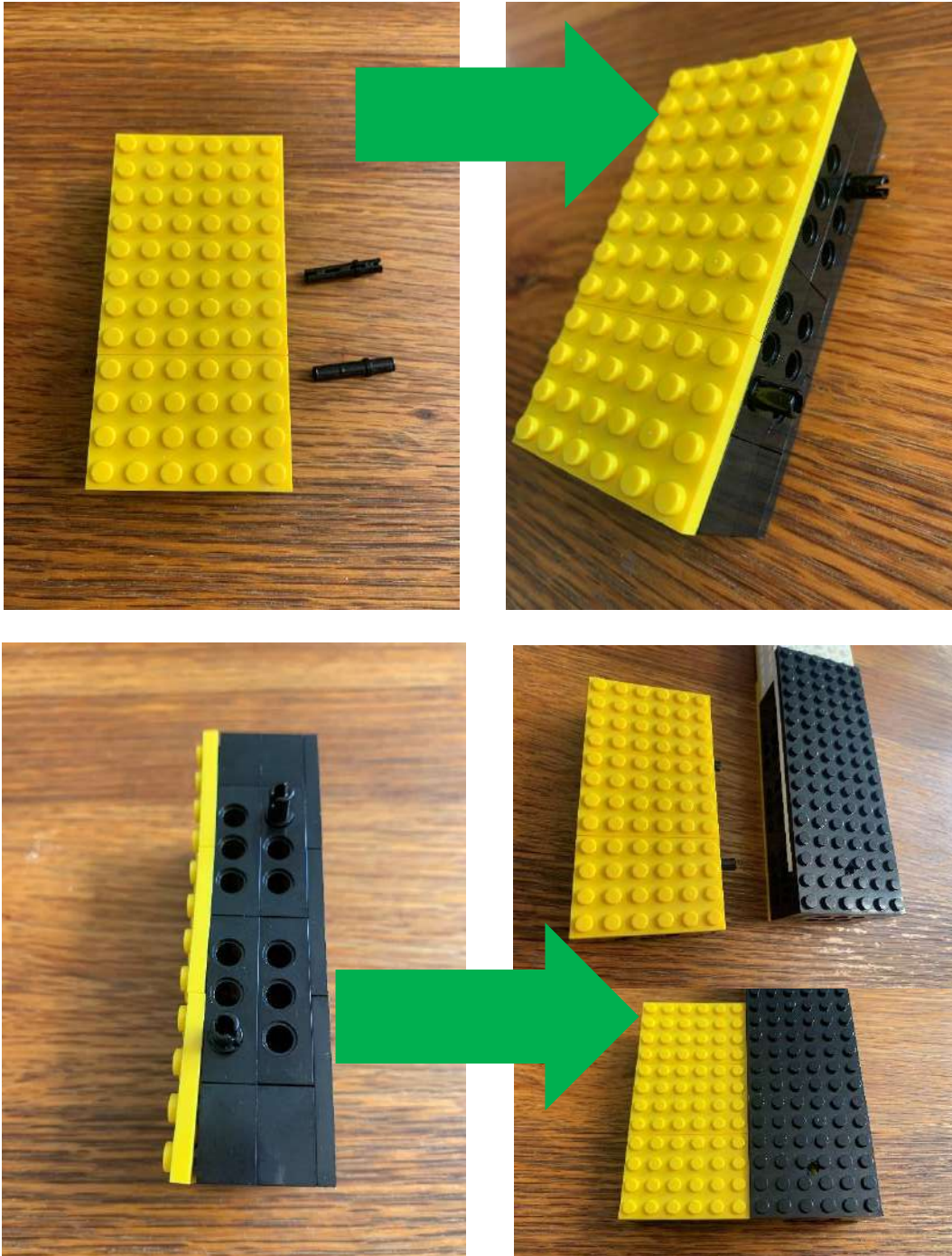


Step 2

Build side boxes

1/8 size spine

Step 2I – Plug sidebox into spine

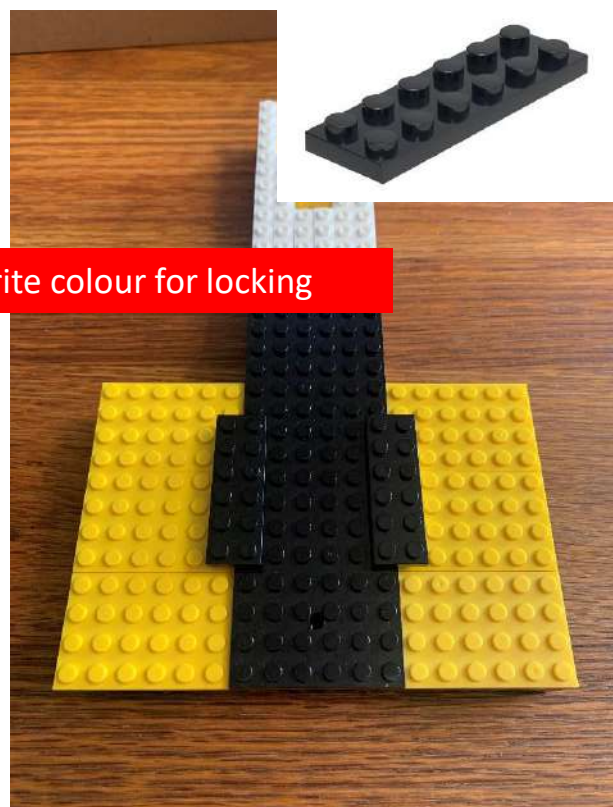
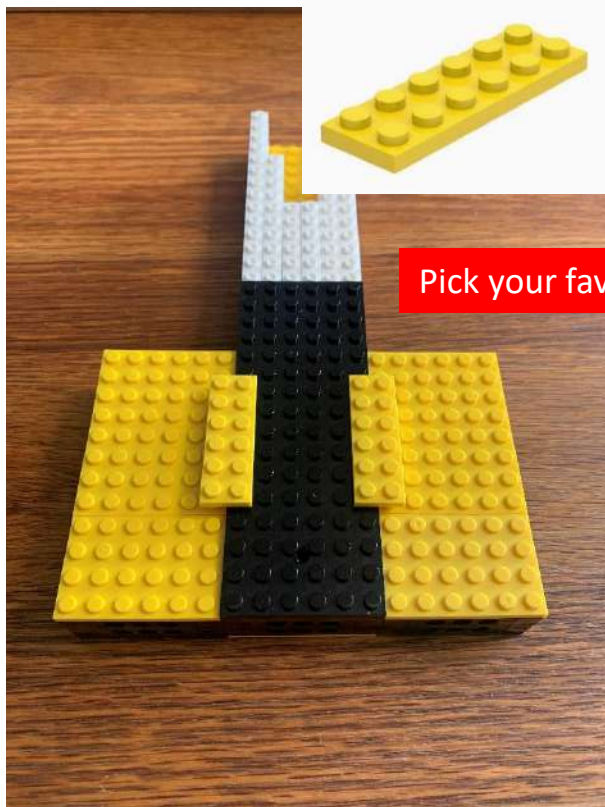
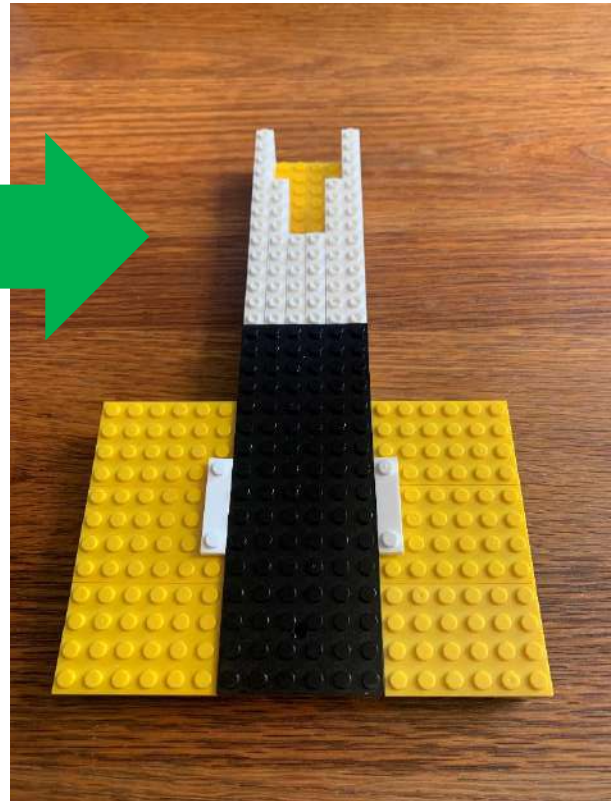
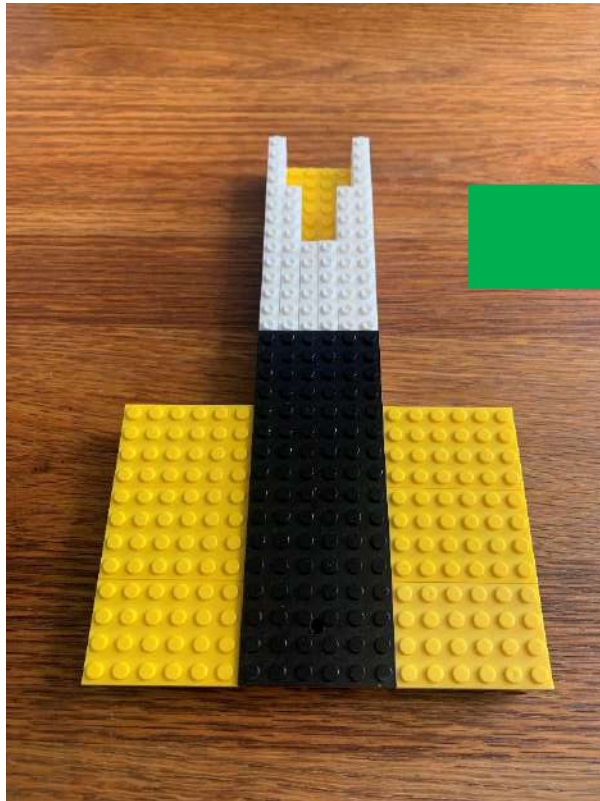


Step 2

Build side boxes

1/8 size spine

Step 2I – Lock front



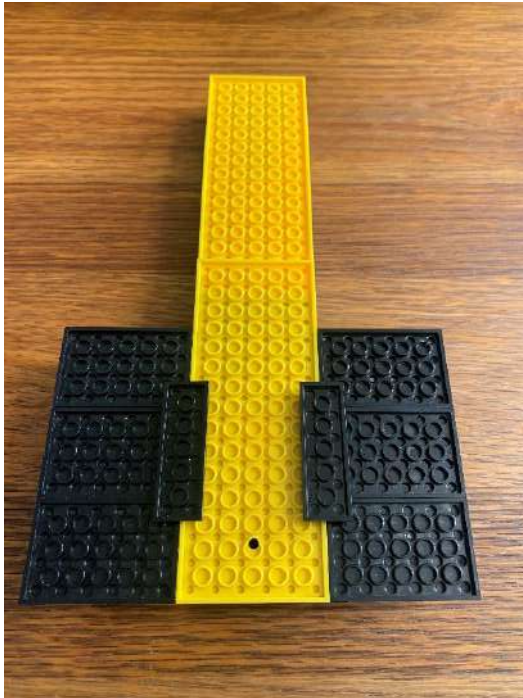
Pick your favourite colour for locking

Step 2

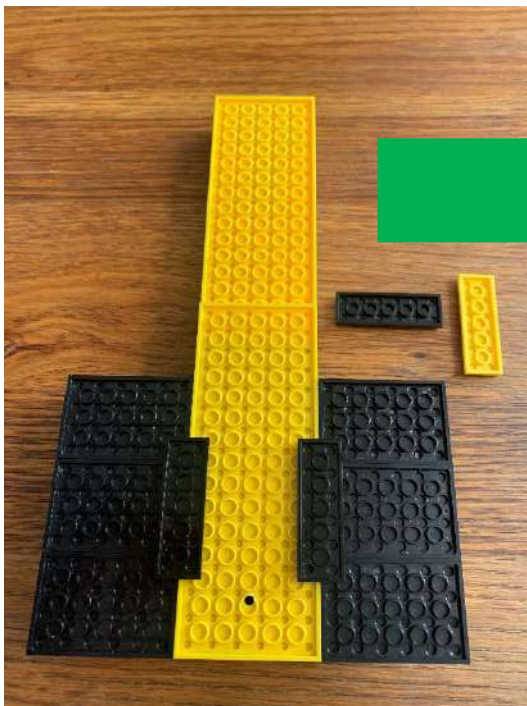
Build side boxes

1/8 size spine

Step 2I – Lock back



Pick your favourite colour for locking



Step 2

Build spine of the violin..

1/8 size spine

Note:

1/8 size spine and side boxes are finished, you can skip to page 36.

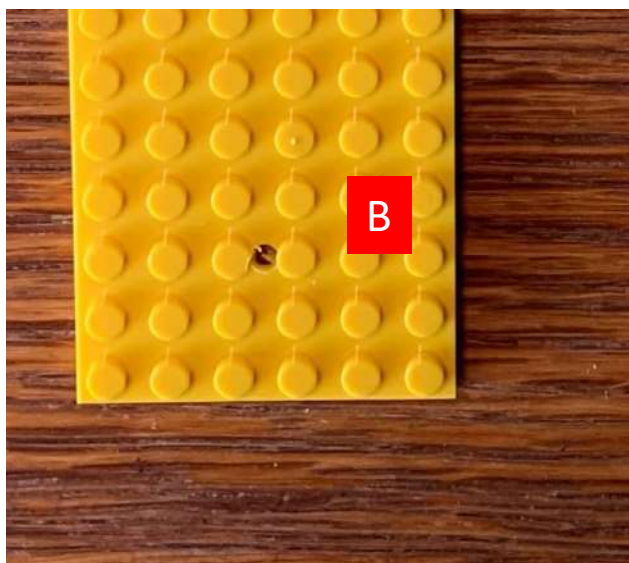
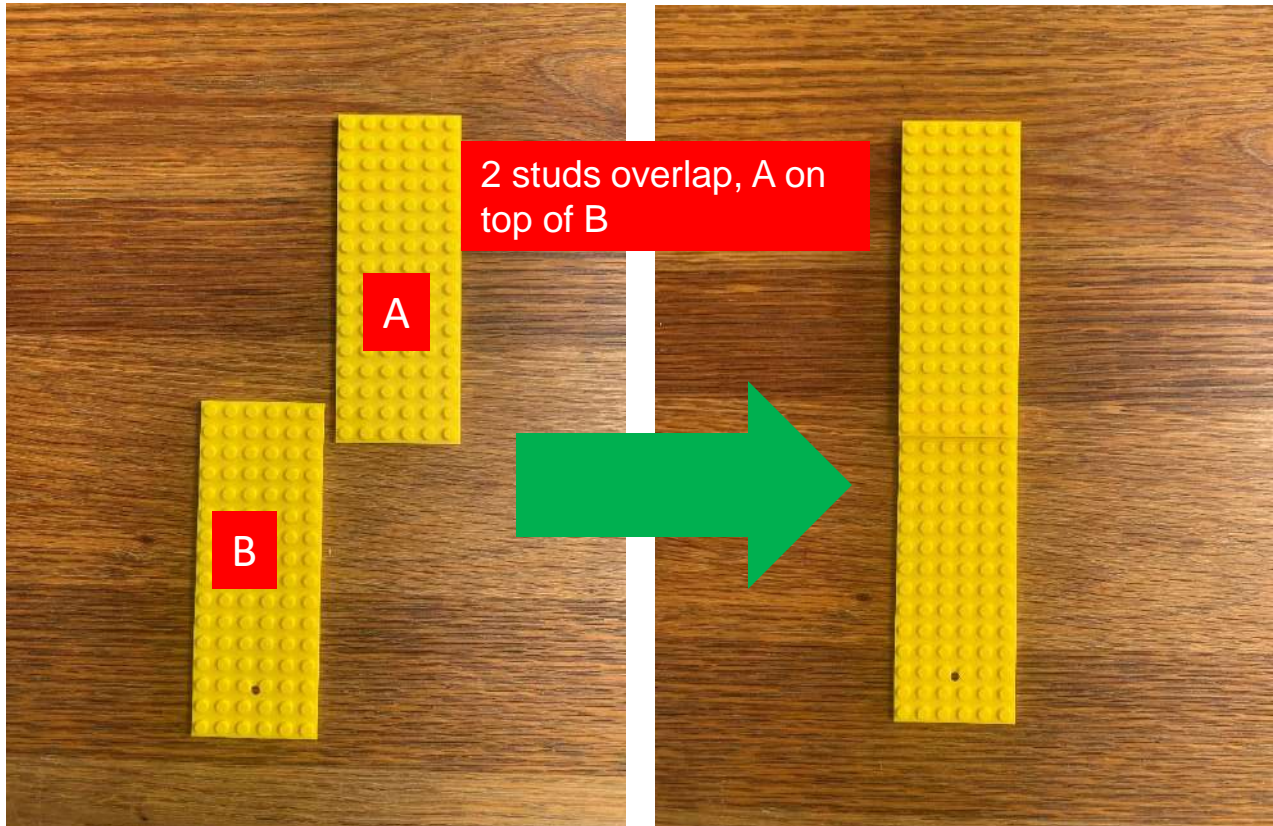


Step 2

Build spine of the violin.

1/4 size spine

Step 2a – lay out base of the back plate



Note:

Make sure the bottom plate (B) is the one with hole at the lower half of the plate.

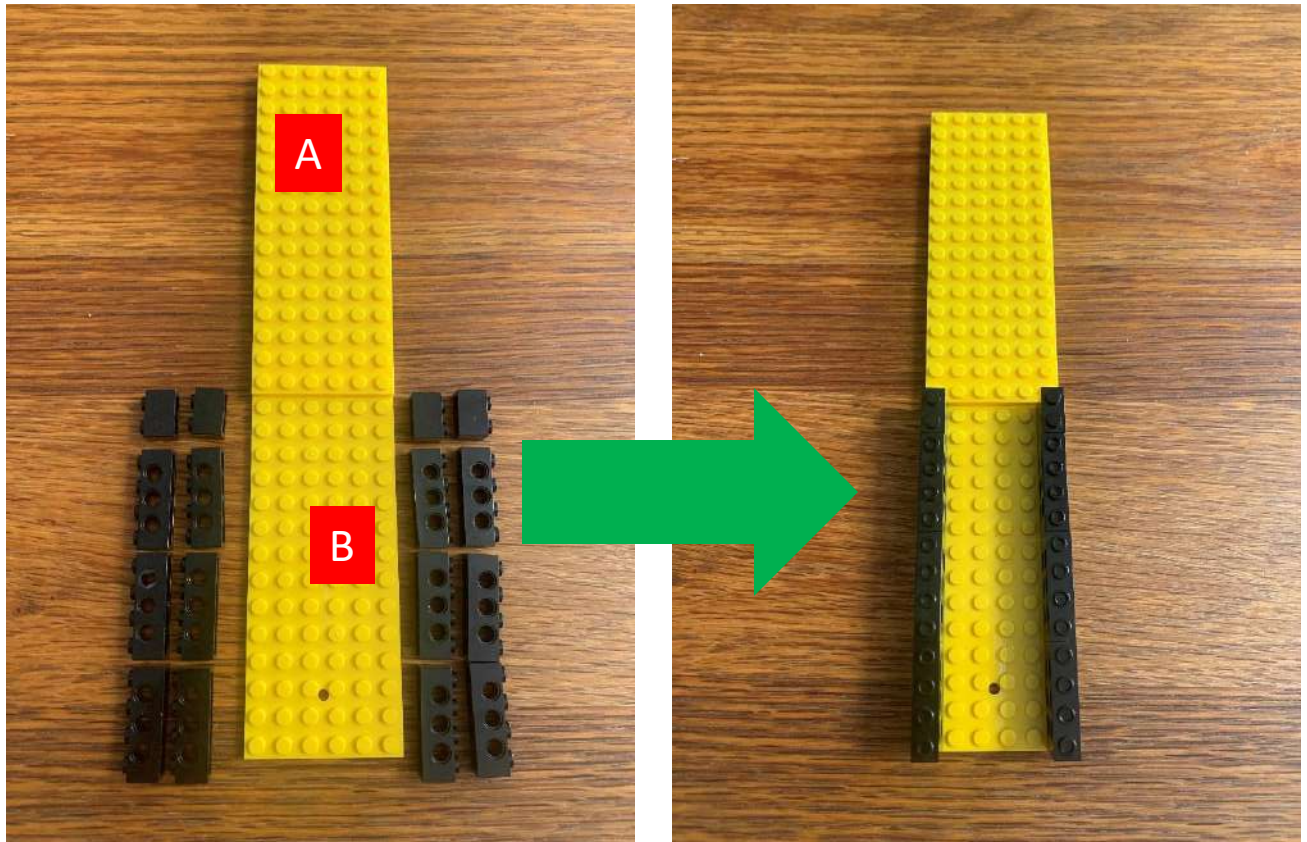


Step 2

Build spine of the violin.

1/4 size spine

Step 2b – Connect A and B

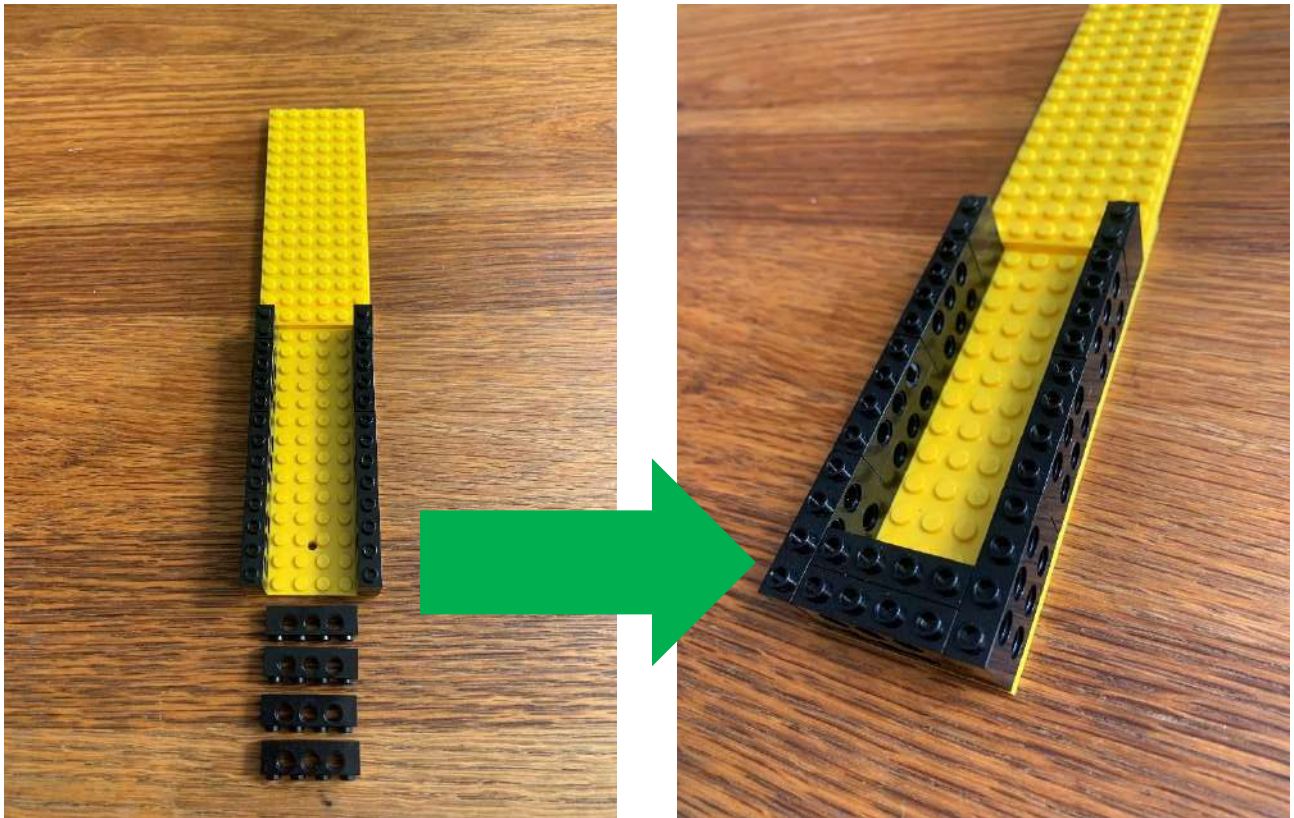


Step 2

Build spine of the violin.

1/4 size spine

Step 2c

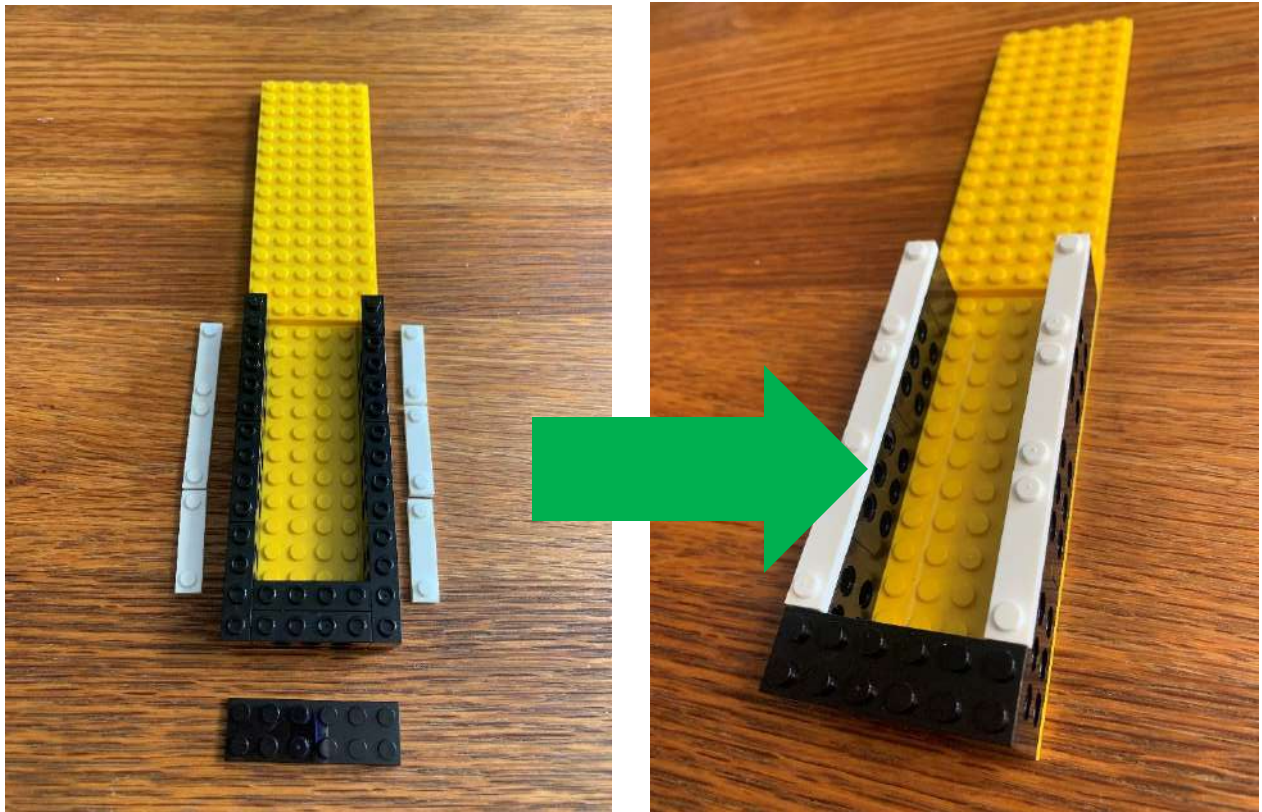


Step 2

Build spine of the violin.

1/4 size spine

Step 2d

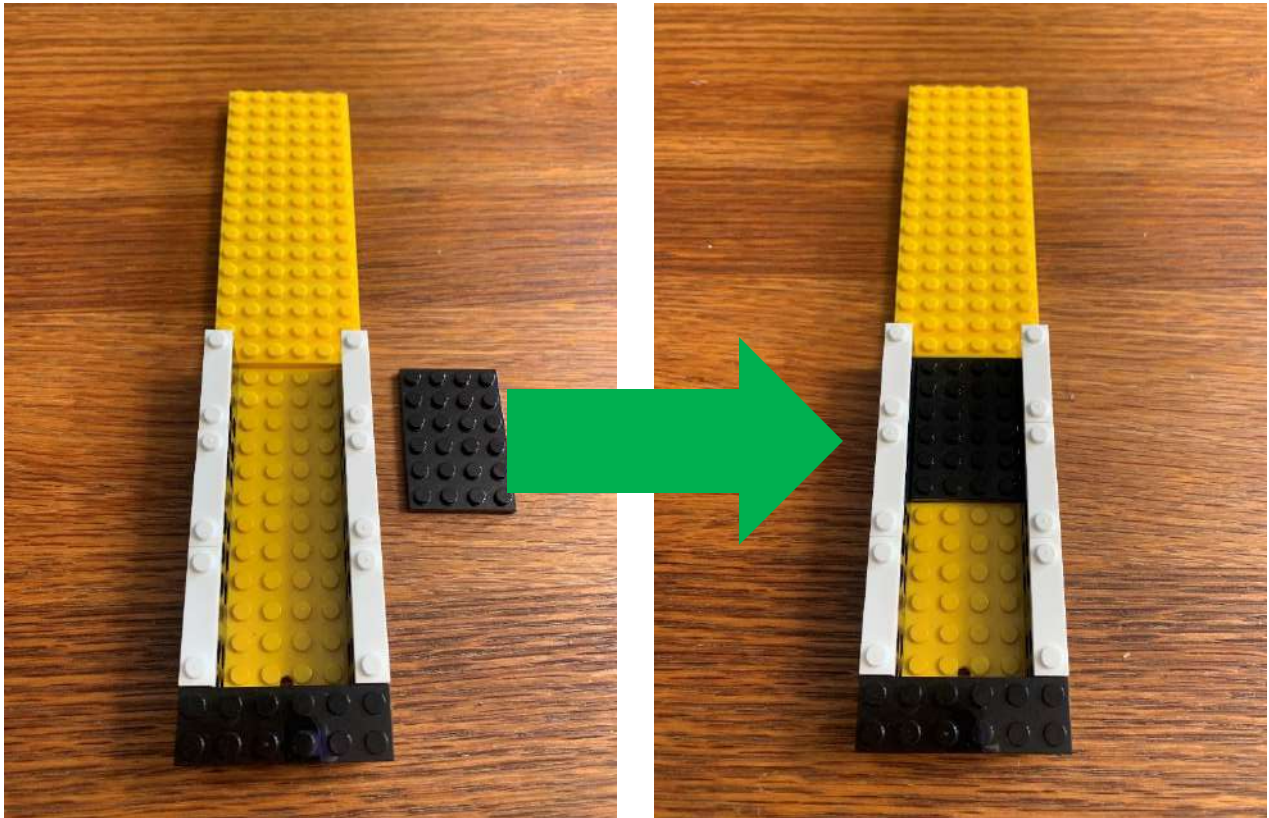


Step 2

Build spine of the violin.

1/4 size spine

Step 2e

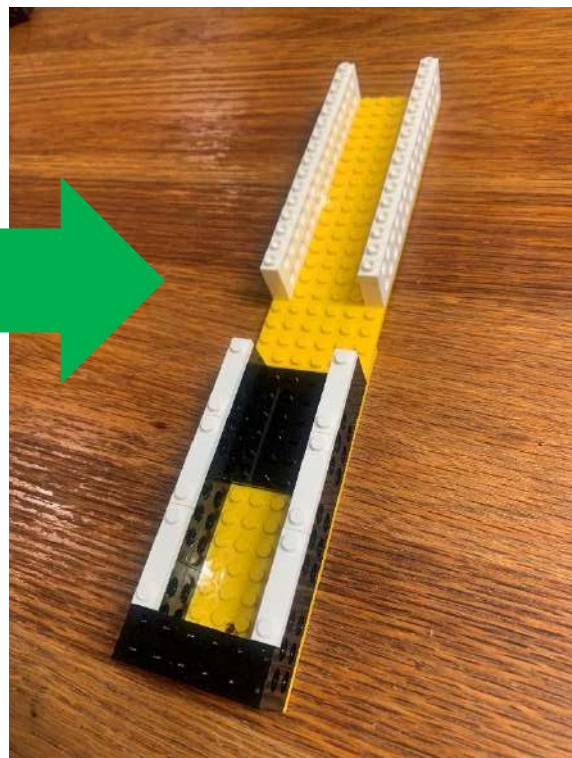
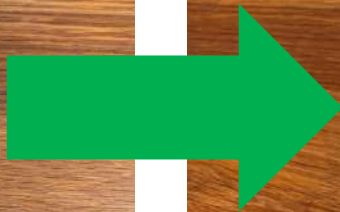
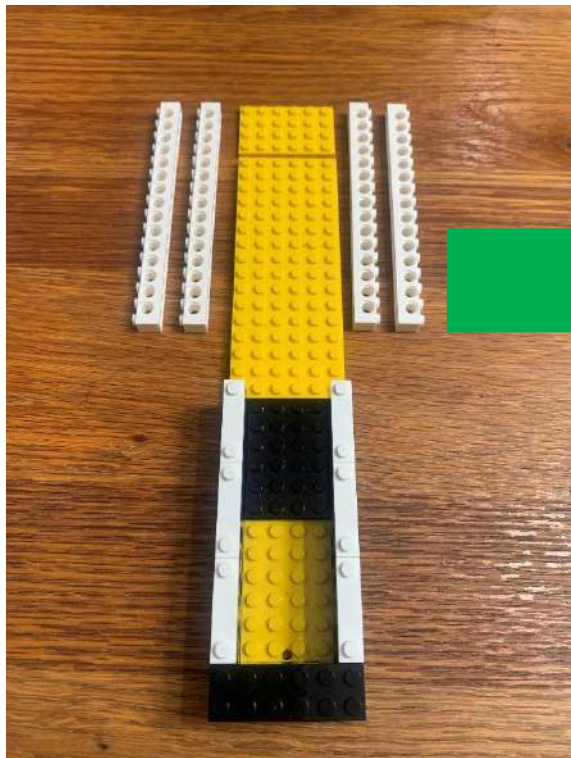
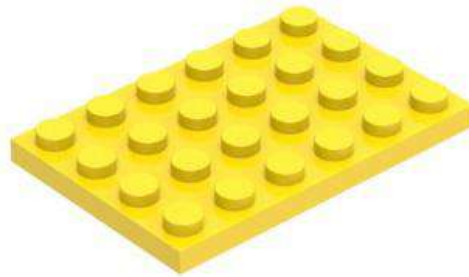
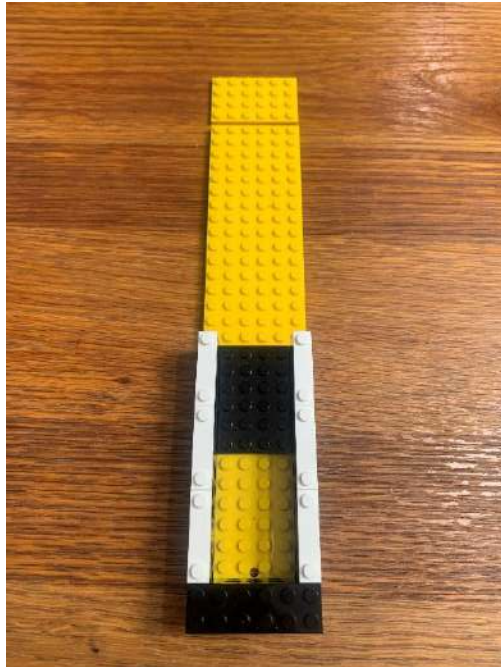


Step 2

Build spine of the violin..

1/4 size spine

Step 2f – Conenct ¼ extension plate

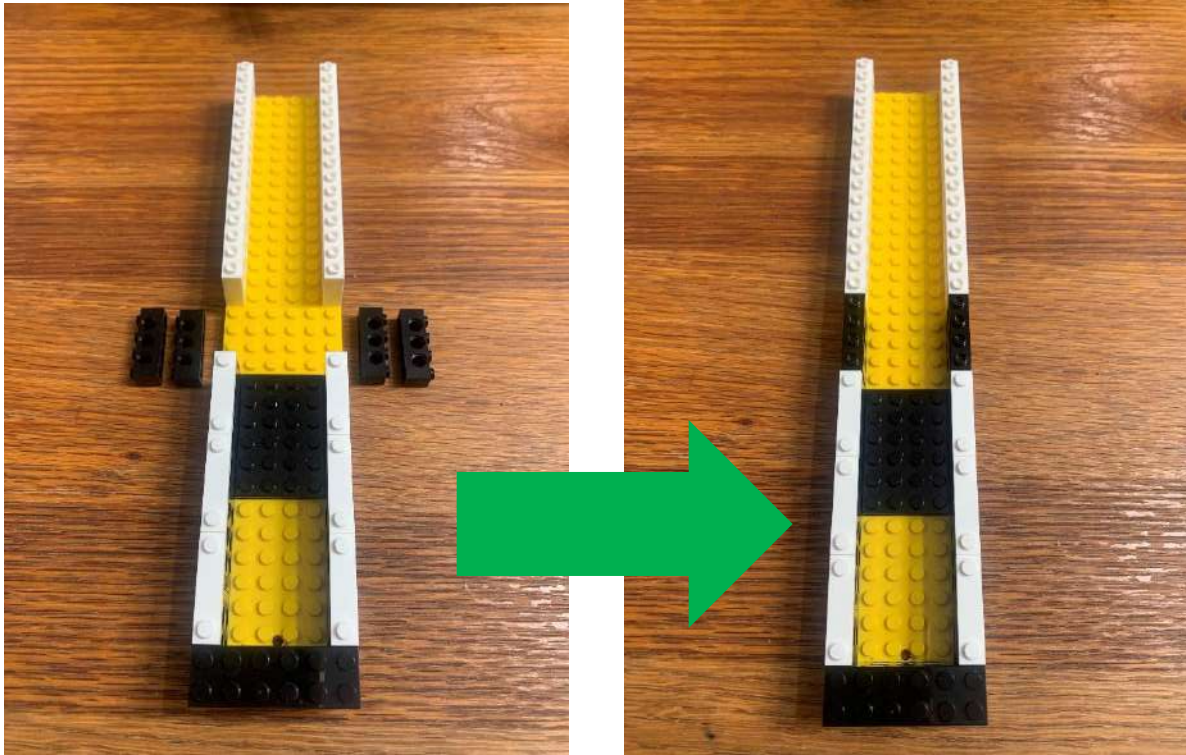


Step 2

Build spine of the violin..

1/4 size spine

Step 2g

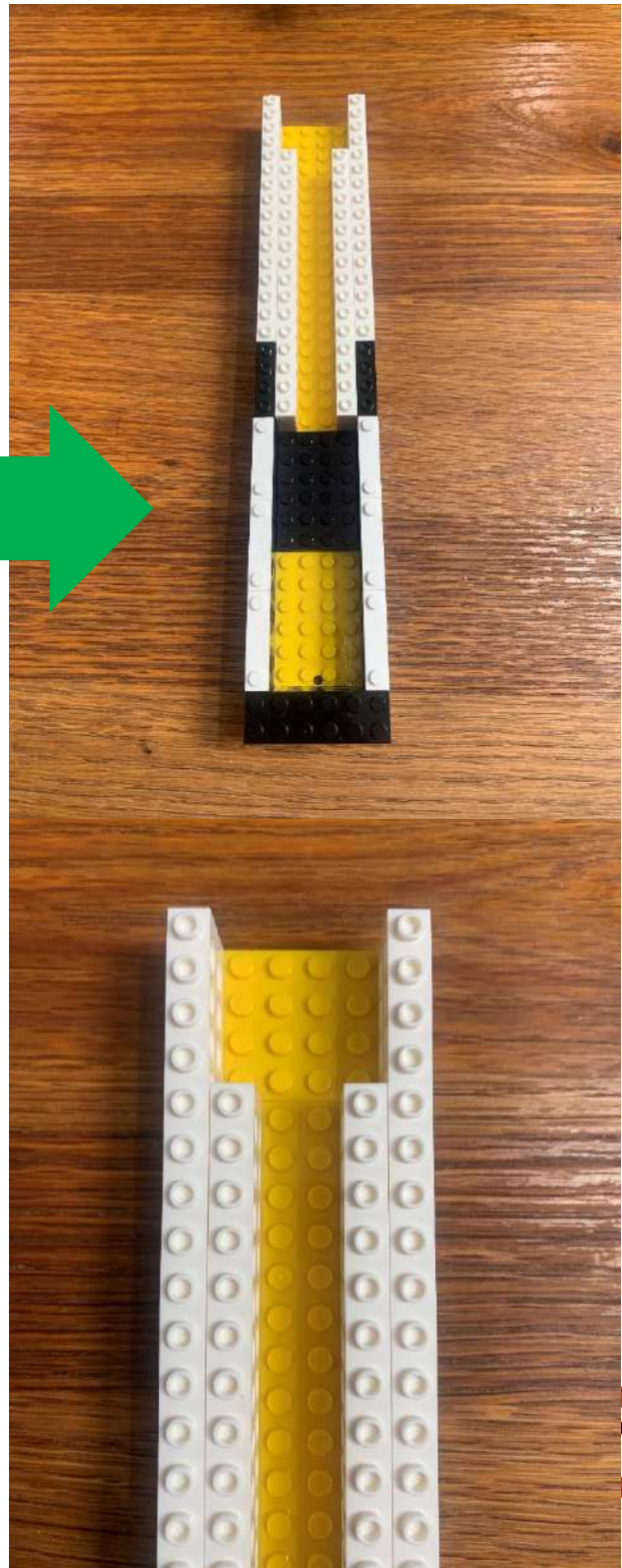
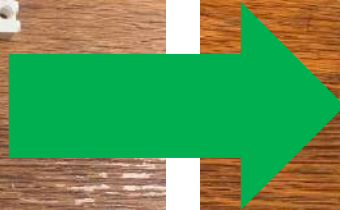
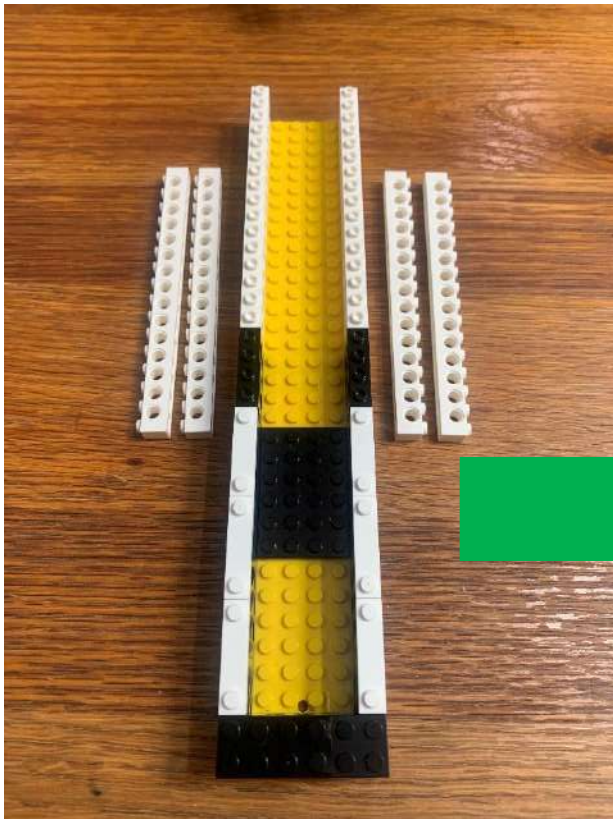


Step 2

Build spine of the violin..

1/4 size spine

Step 2h

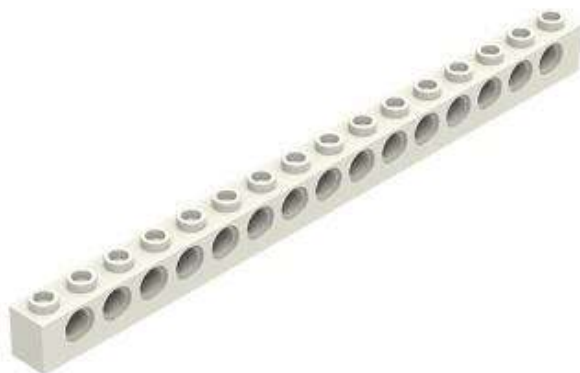
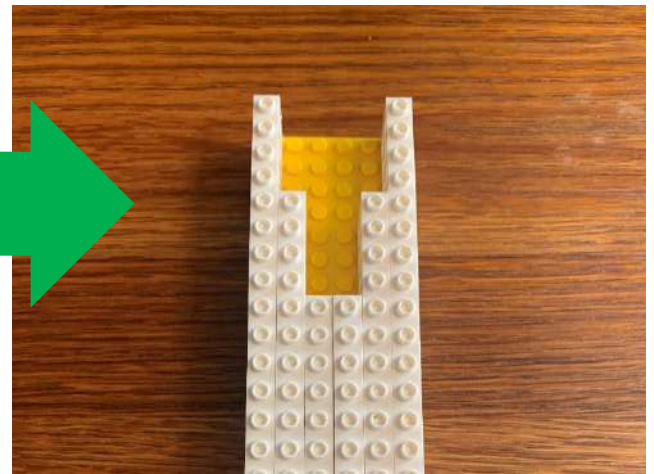
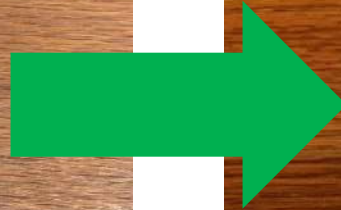
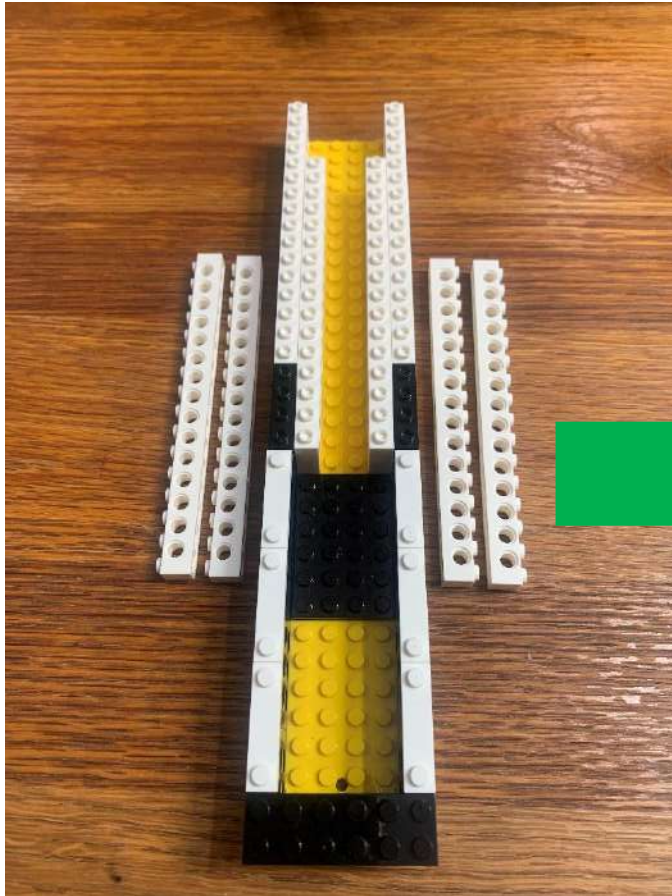


Step 2

Build spine of the violin..

1/4 size spine

Step 2i

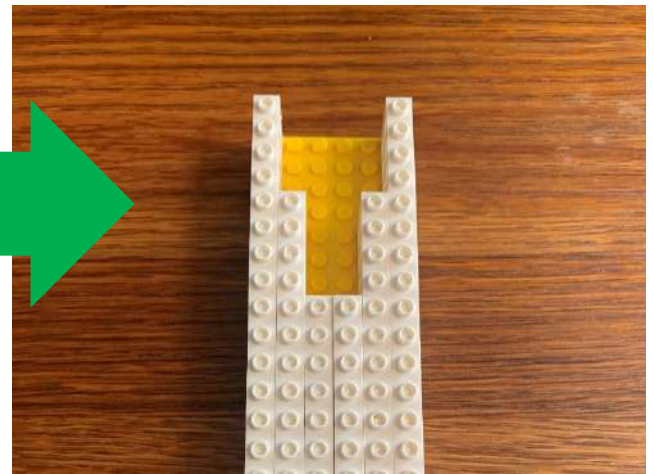
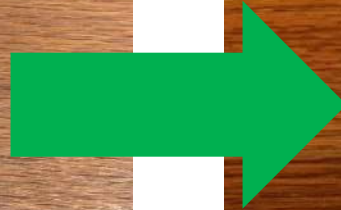
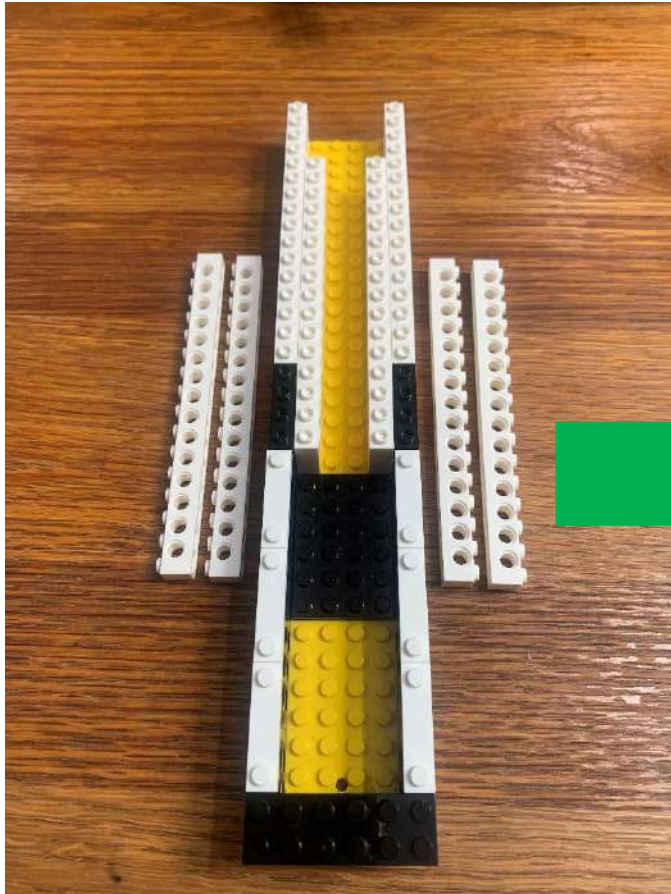


Step 2

Build spine of the violin..

1/4 size spine

Step 2j

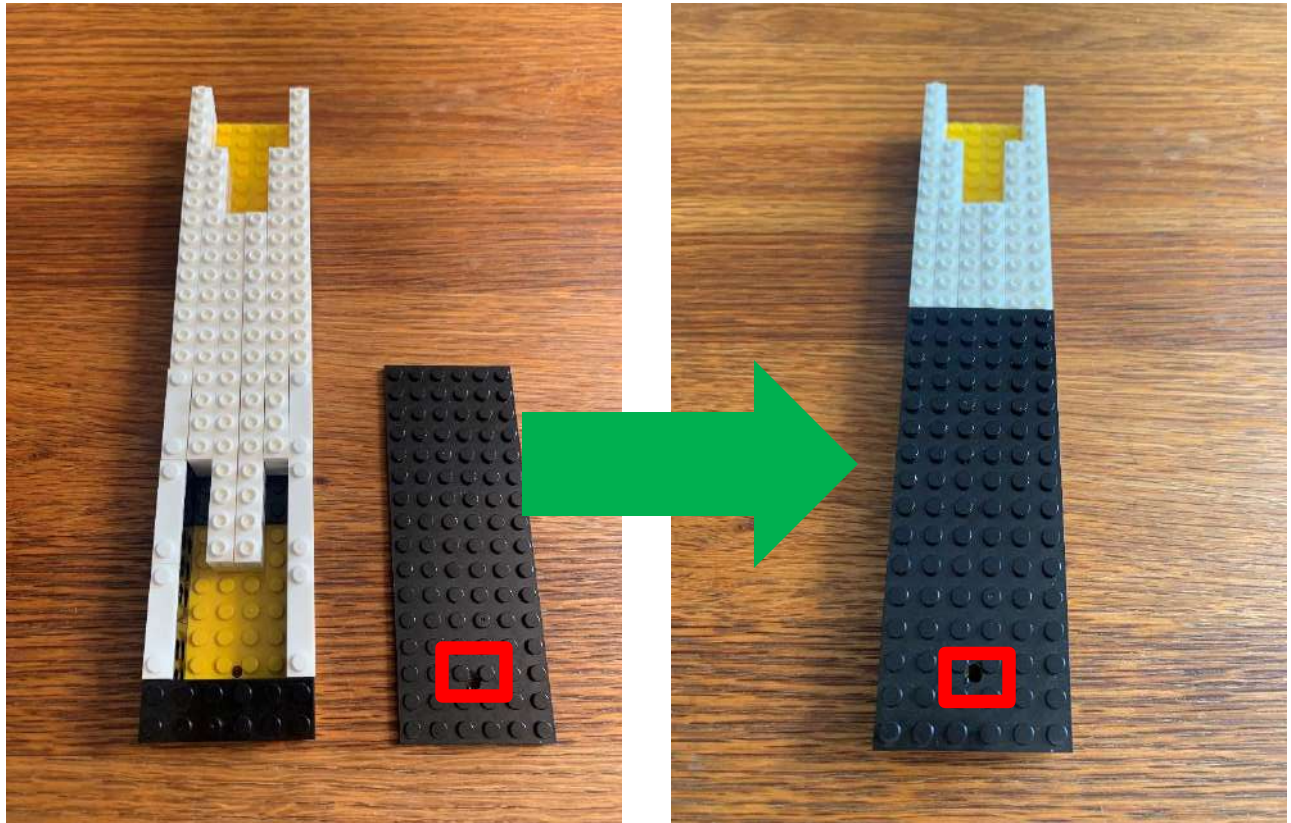


Step 2

Build spine of the violin.

1/4 size spine

Step 2k



Note:

Make sure the bottom plate is the one with hole at the lower half of the plate.

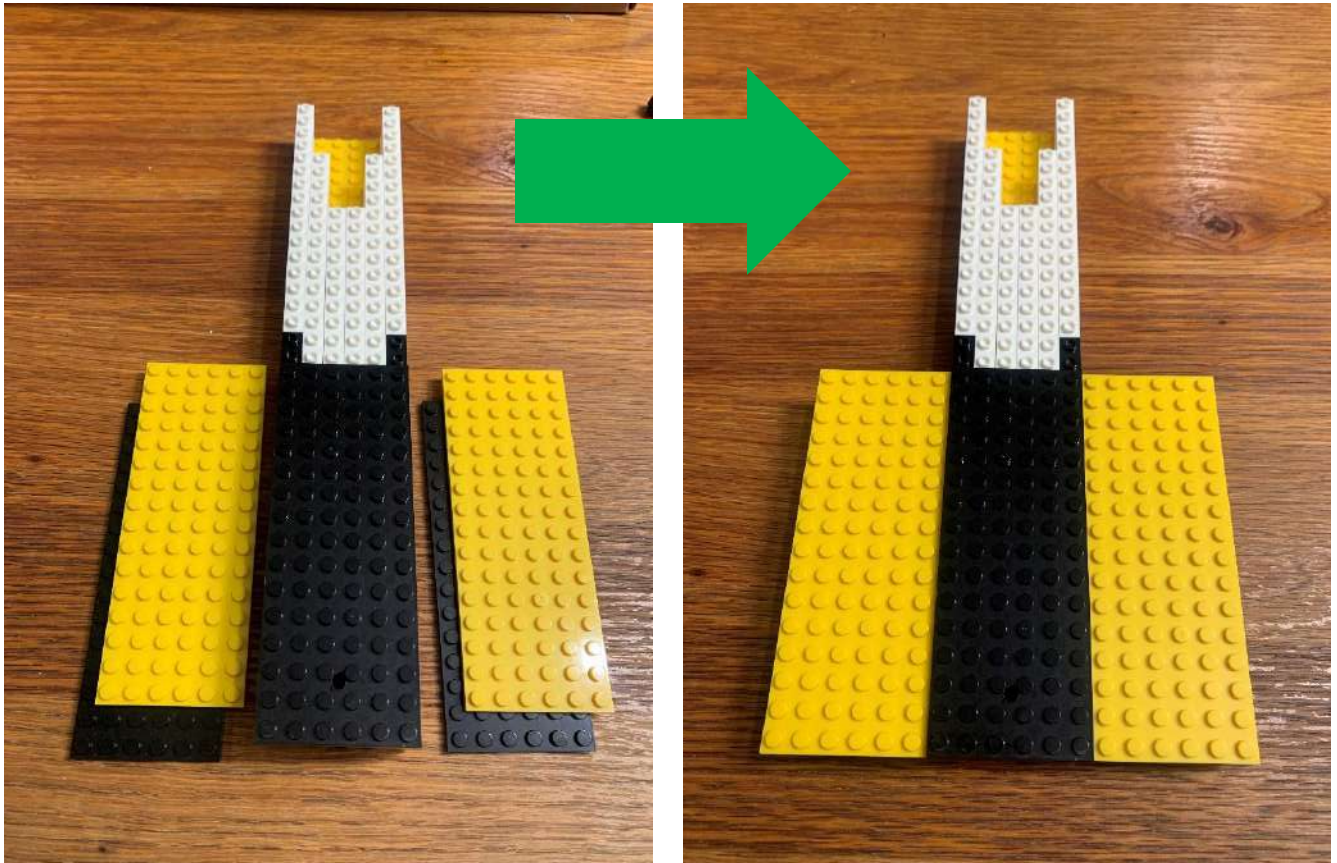


Step 2

Build side boxes

1/4 size spine

Step 2I



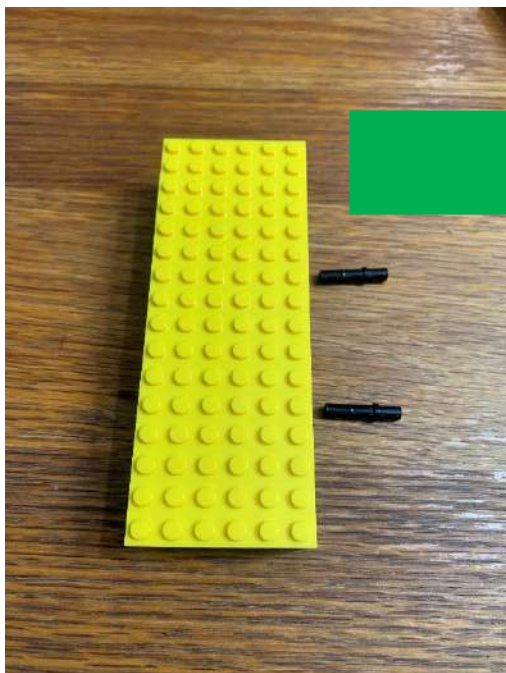
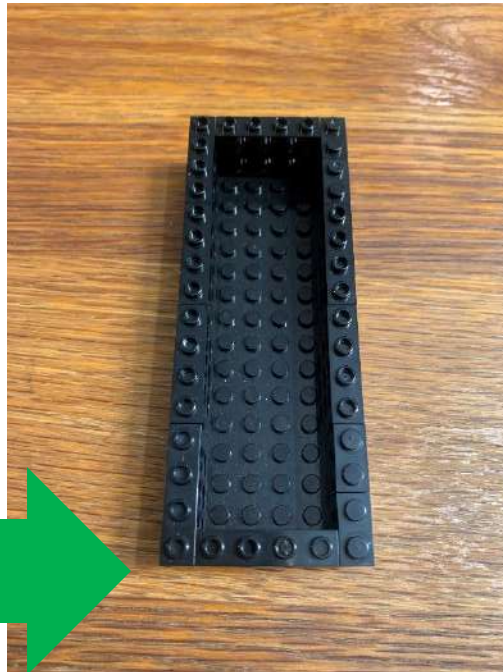
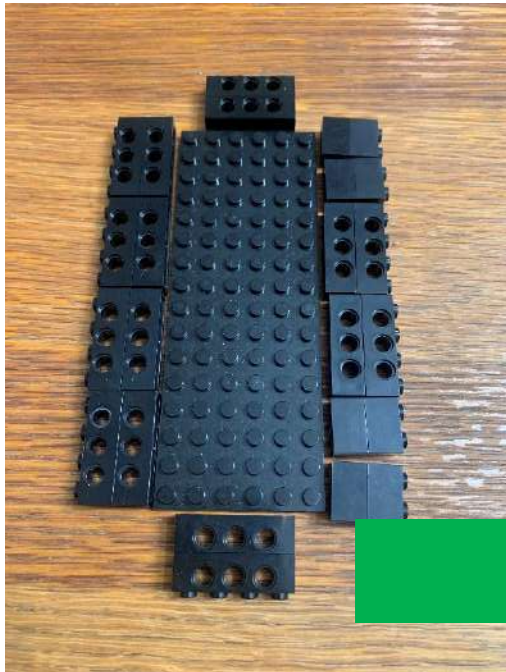
Step 2

Build side boxes

1/4 size spine

Step 2m

Repeat for second box



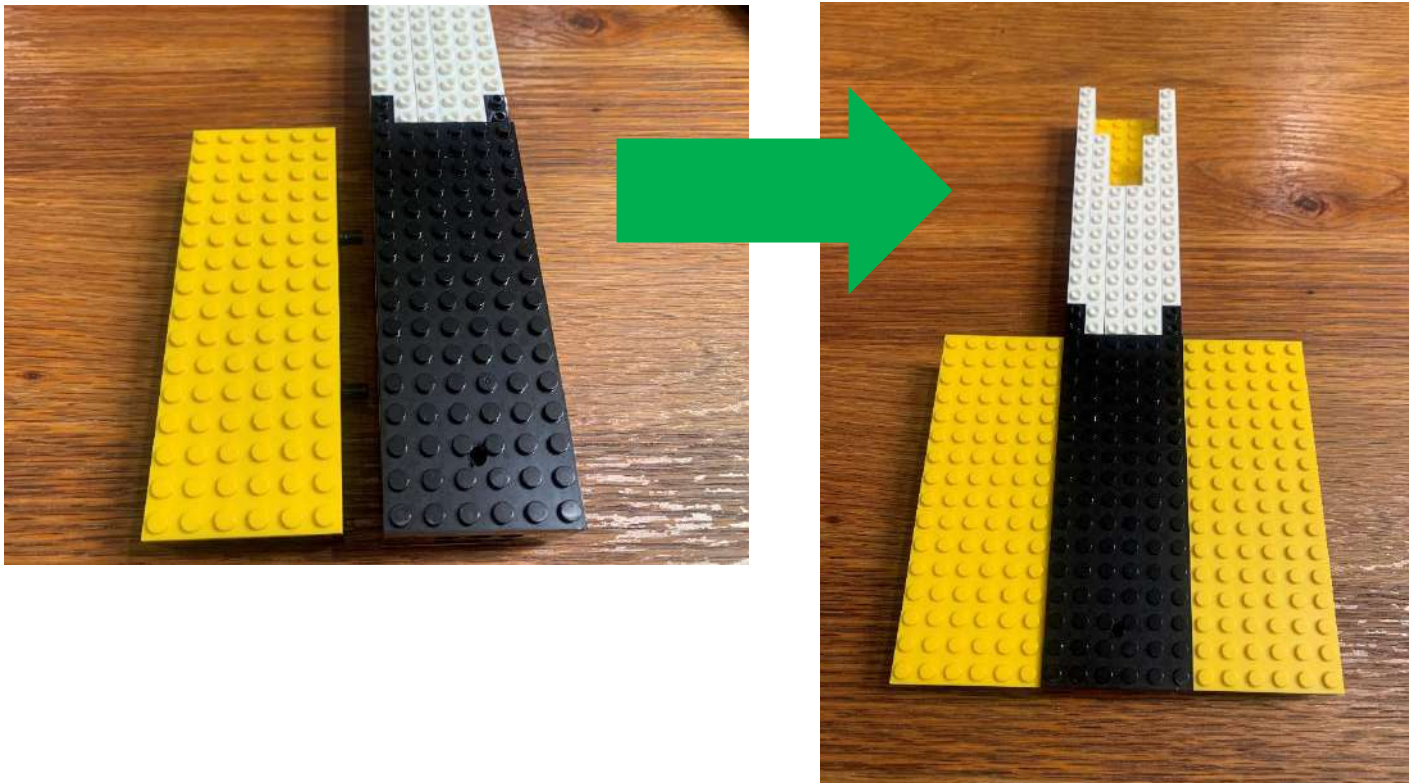
Step 2

Build side boxes

1/4 size spine

Step 2n

Plug side box nto spine

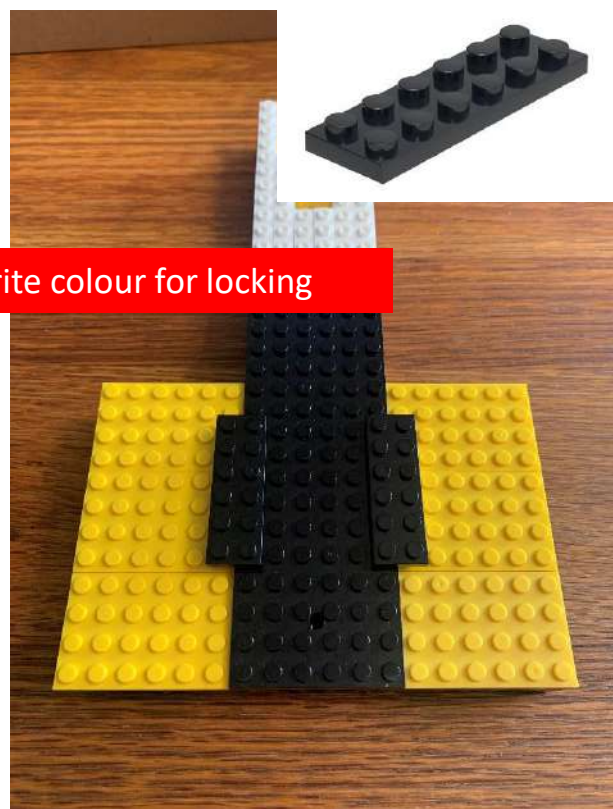
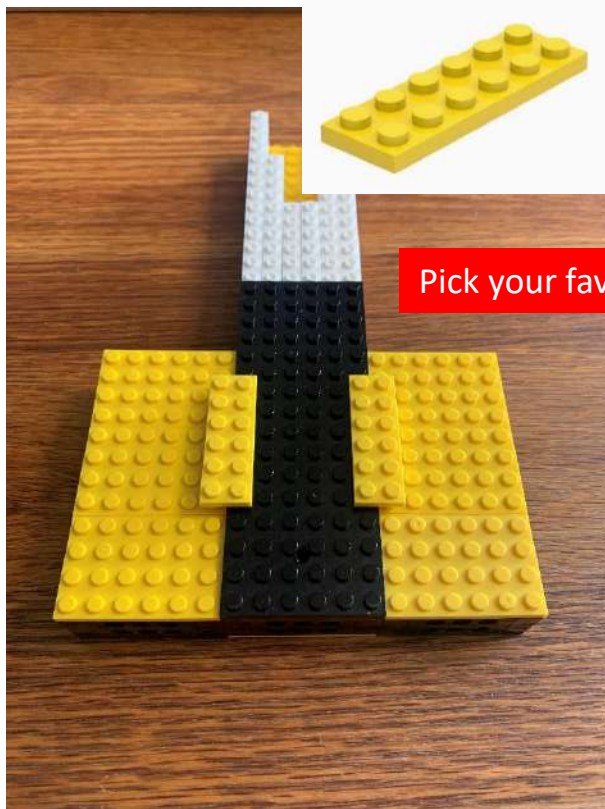
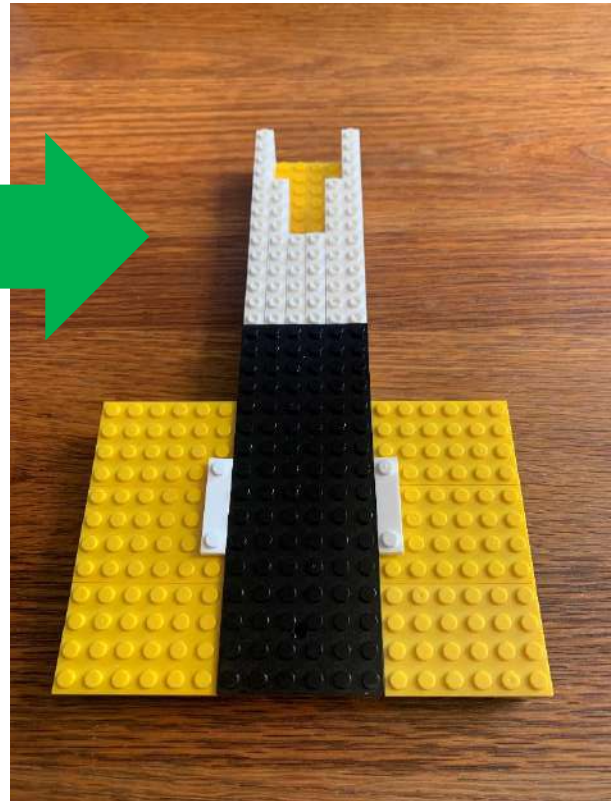
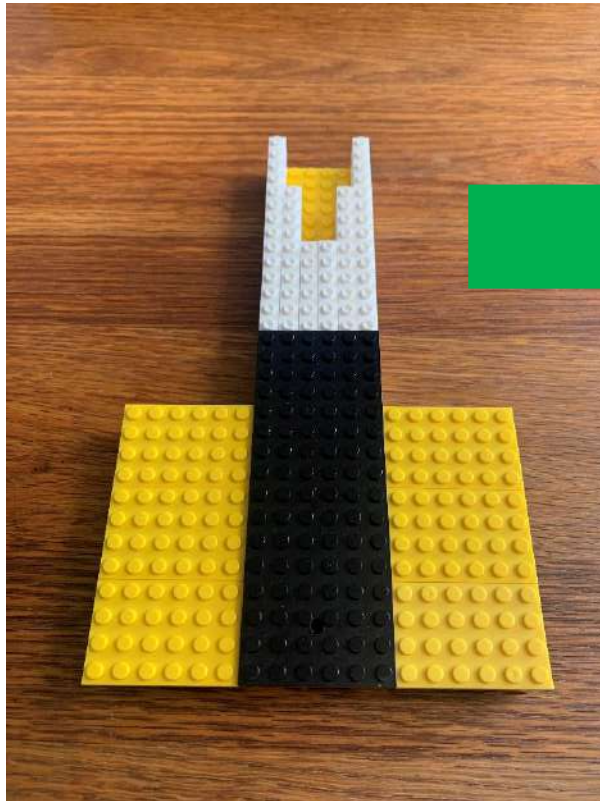


Step 2

Build side boxes

1/4 size spine

Step 2a – Lock front



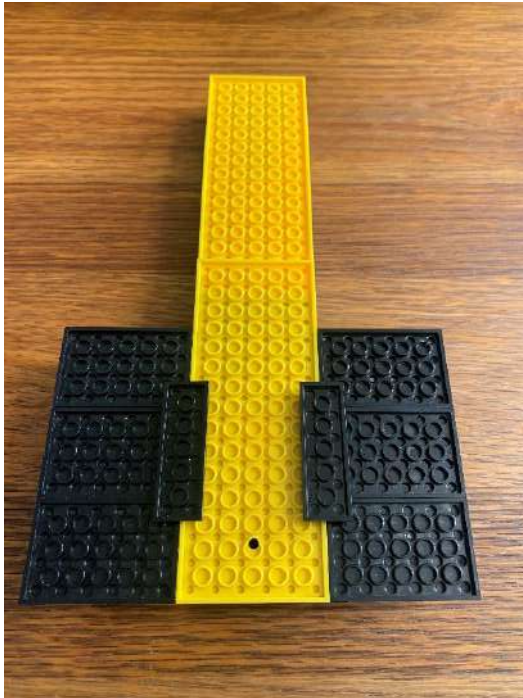
Pick your favourite colour for locking

Step 2

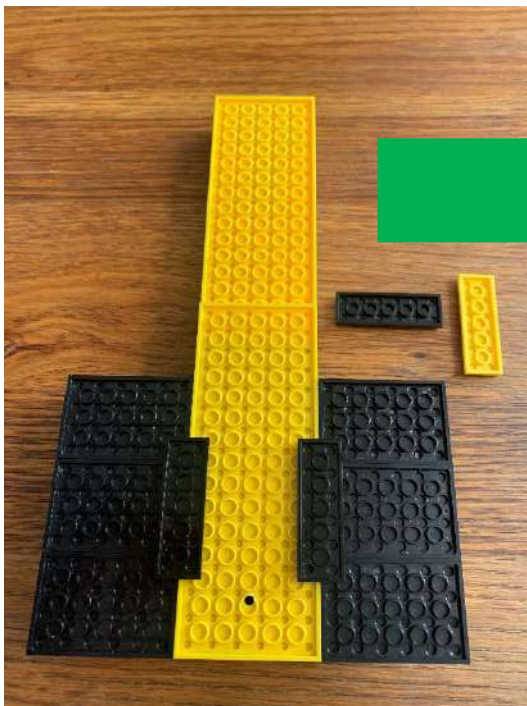
Build side boxes

1/4 size spine

Step 2p – Lock back



Pick your favourite colour for locking



Step 3

Connect neck and spine

Step 3a

Please make sure the screws are tightened. If they are not, you can use a screwdriver to tighten them.

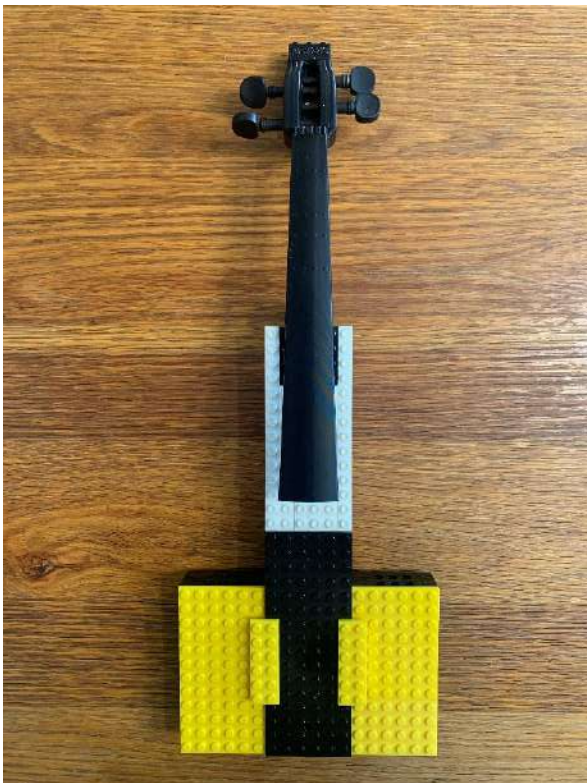
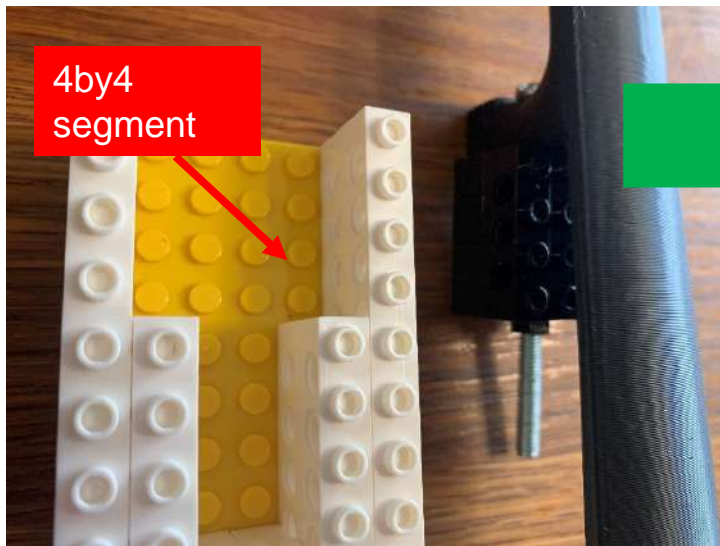


Step 3

Connect neck and spine

Step 3b

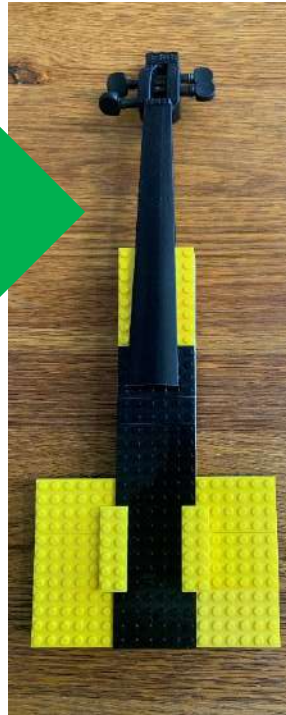
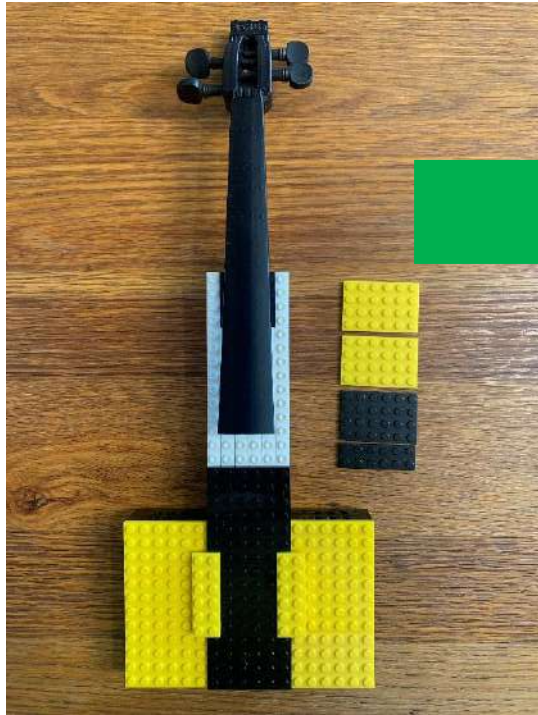
Put the square block of the violin neck into the 4 by 4 segment on top of the violin spine.



Step 3

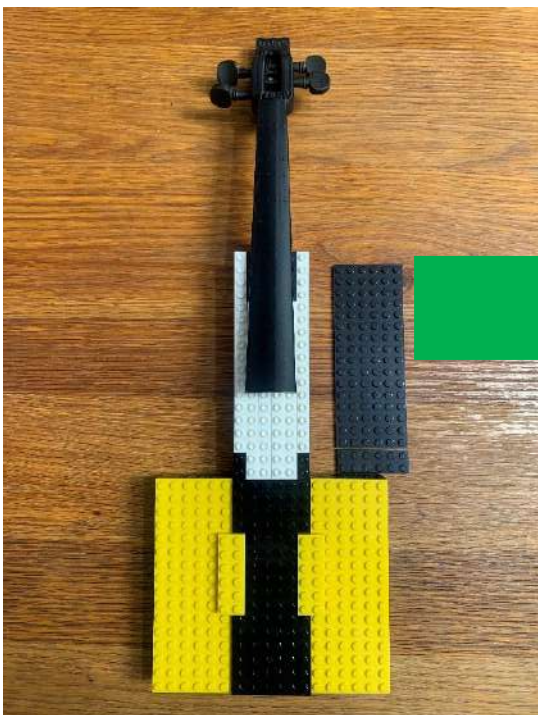
Connect neck and spine

Step 3c Place cover plate



For 1/8 size spine

Pick you fav colour



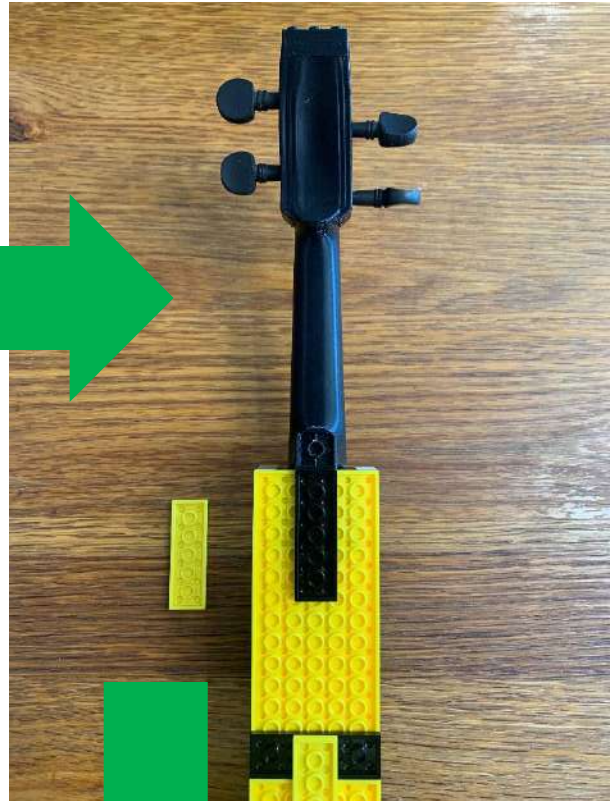
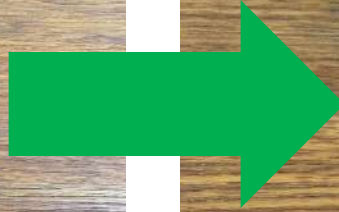
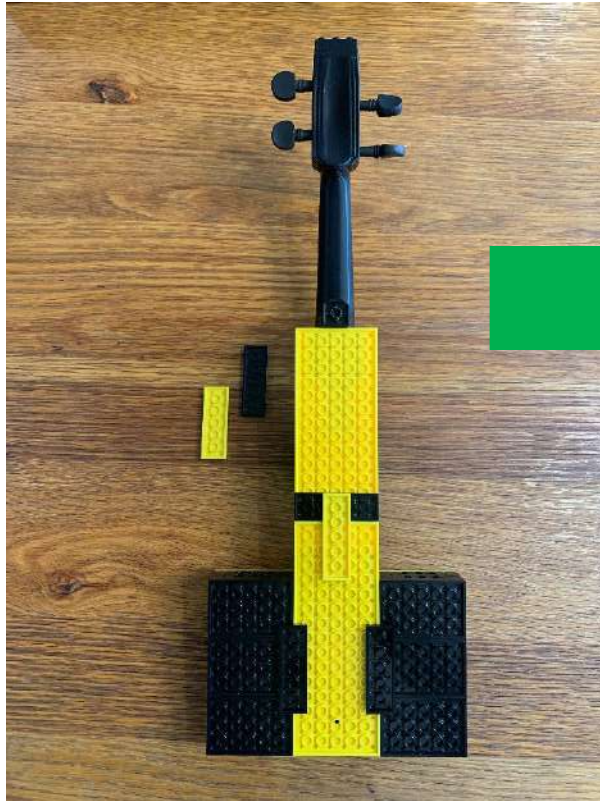
For 1/4 size spine

Pick you fav colour

Step 3

Connect neck and spine

Step 3d – Lock back

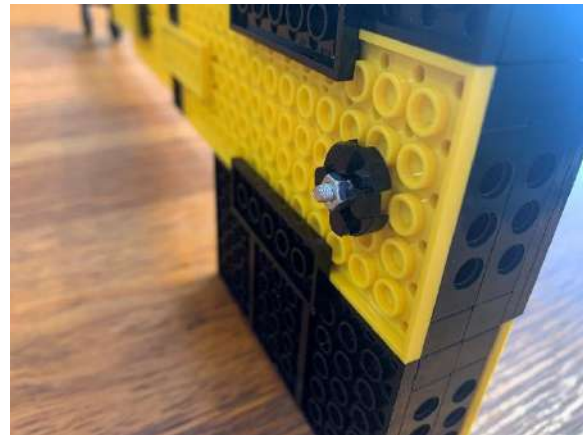
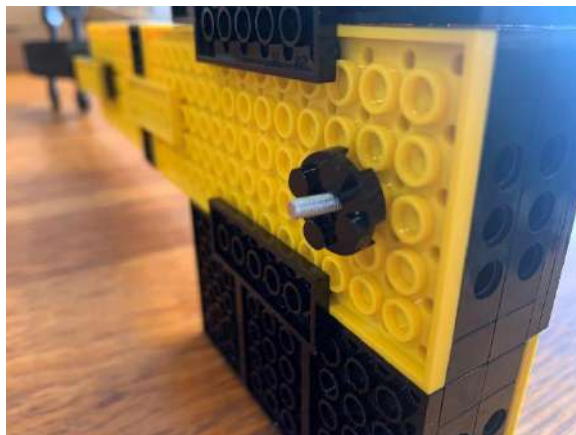
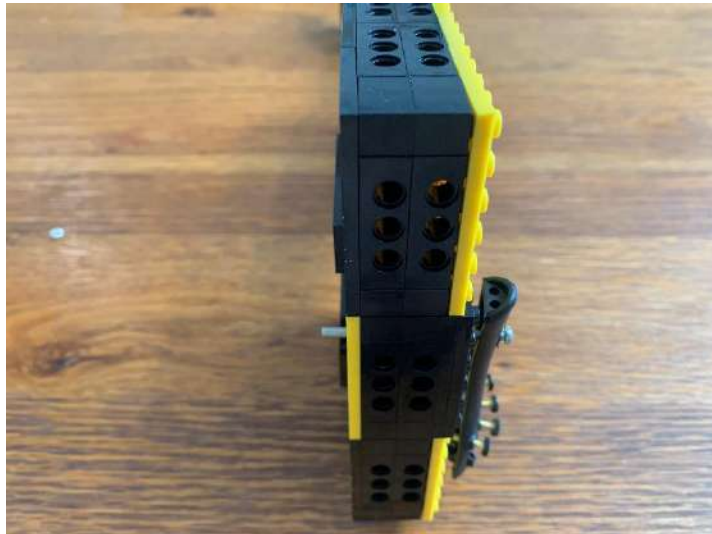
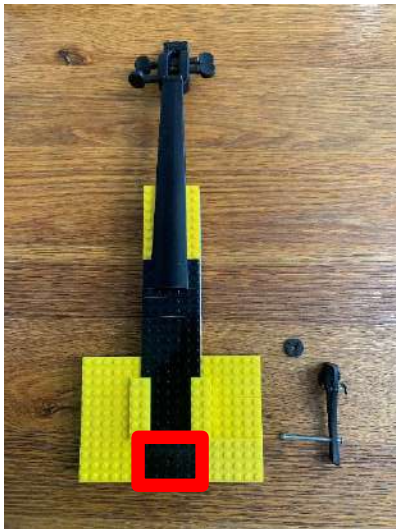


Step 4

Attach tailpiece with violin spine

Step 4a

Put the screw into the hole on tailpiece.



Note:

Please leave some space in between tailpiece and top surface.

You should be able to move the tailpiece and lift it up with some angle.

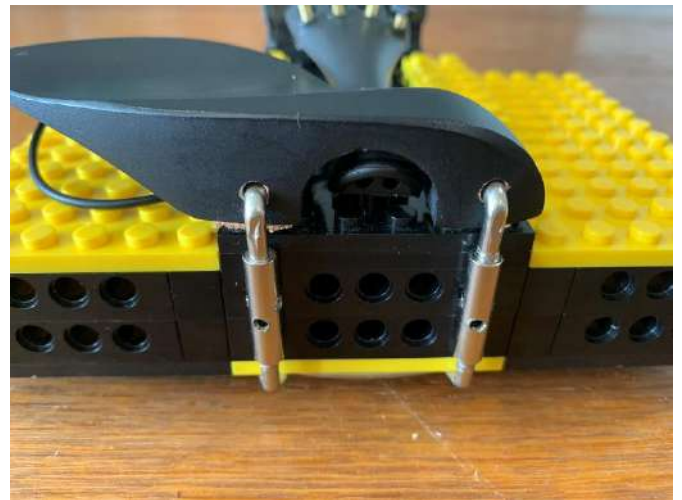
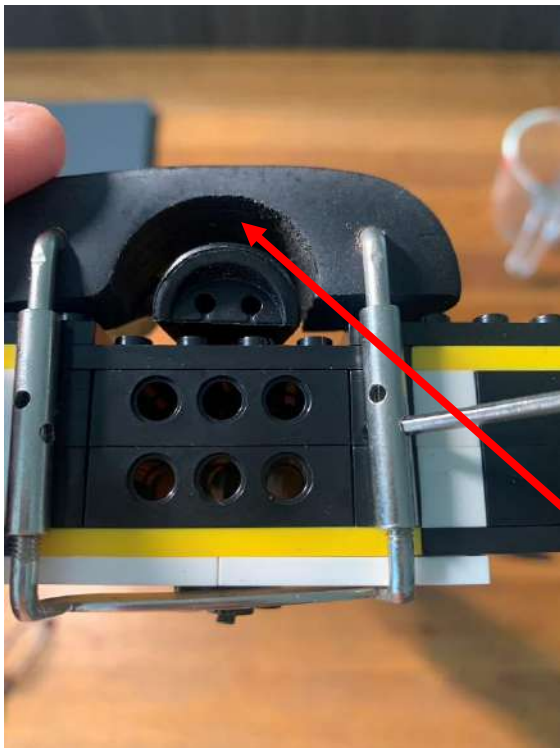


Step 5

Attach chinrest to violin body

Step 5a

Place the chinrest to the bottom of the spine, align in the middle.
Use the small screwdriver, put one side in the hole and rotate clock-wise.
Change to another hole and do the same until it is very tight.



Once chinrest is installed, it should have some space in between the end of tailpiece, allowing tailpiece to lift up with some angle



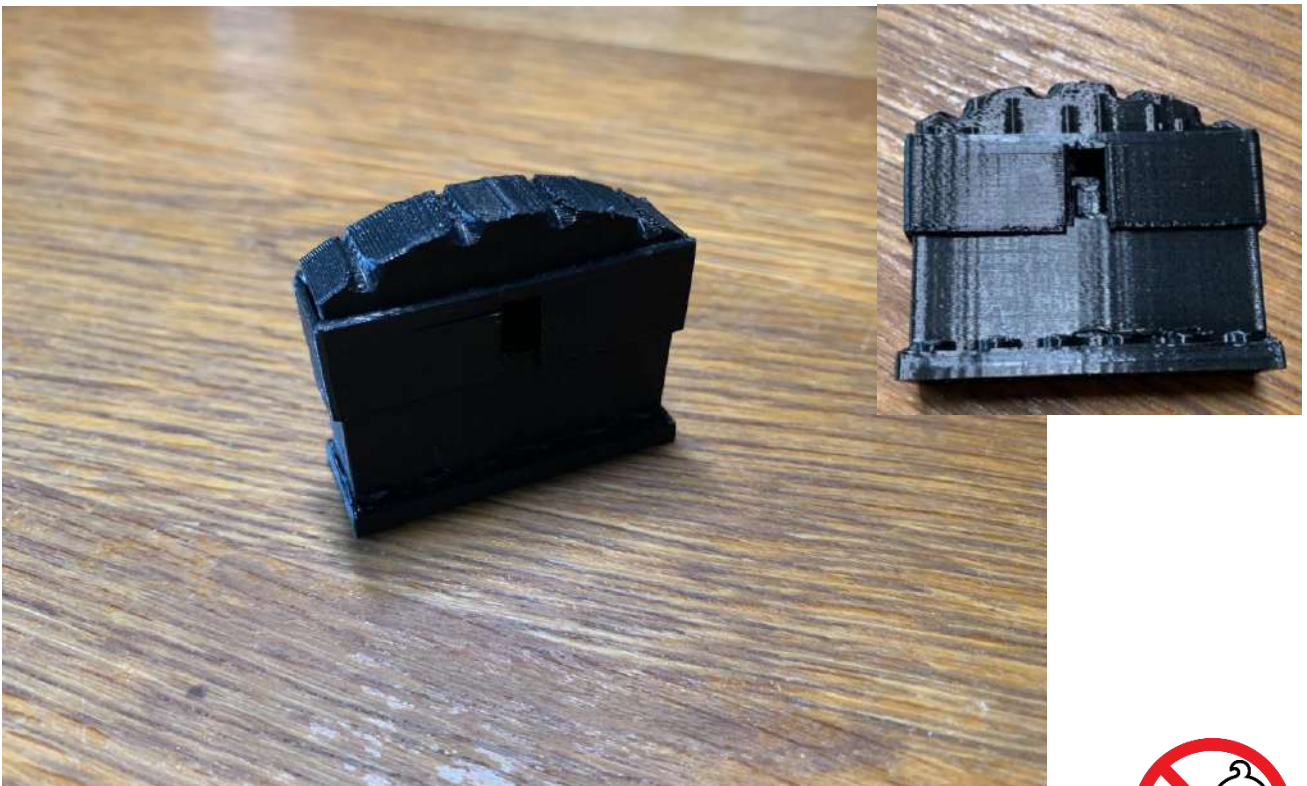
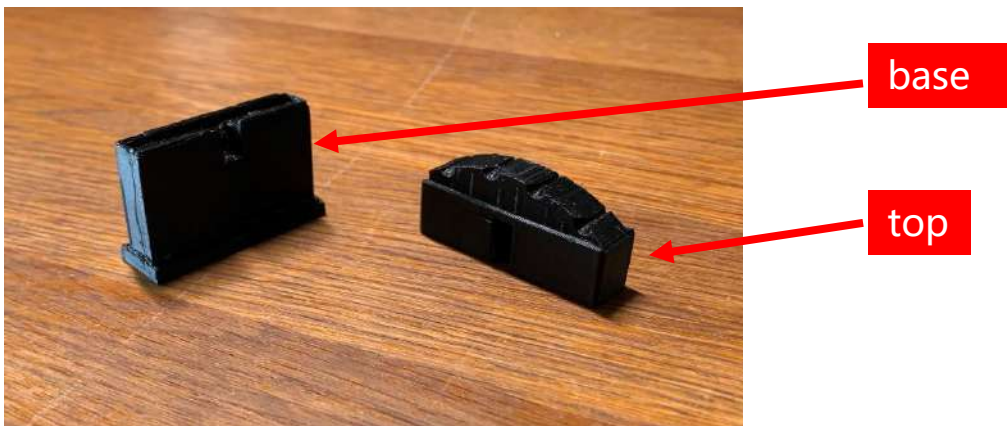
Use the below part to create the space if needed



Step 6 – for package without soundbox

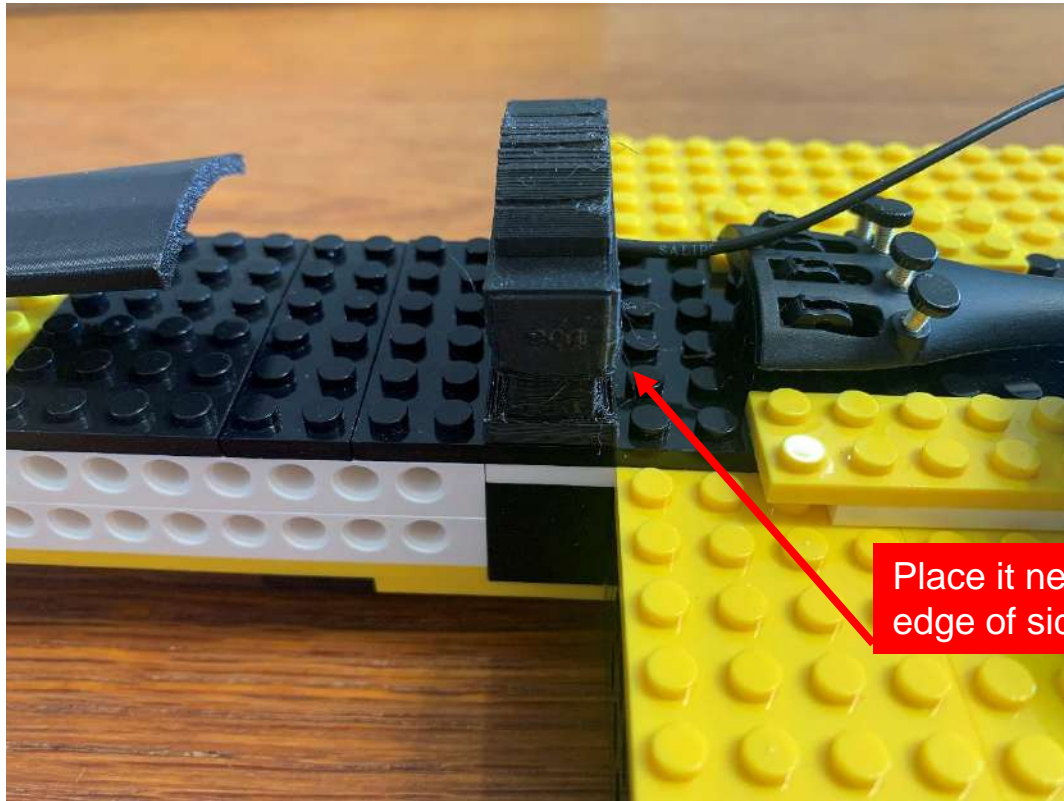
Install bridge

Note:



Step 6 – for package without soundbox

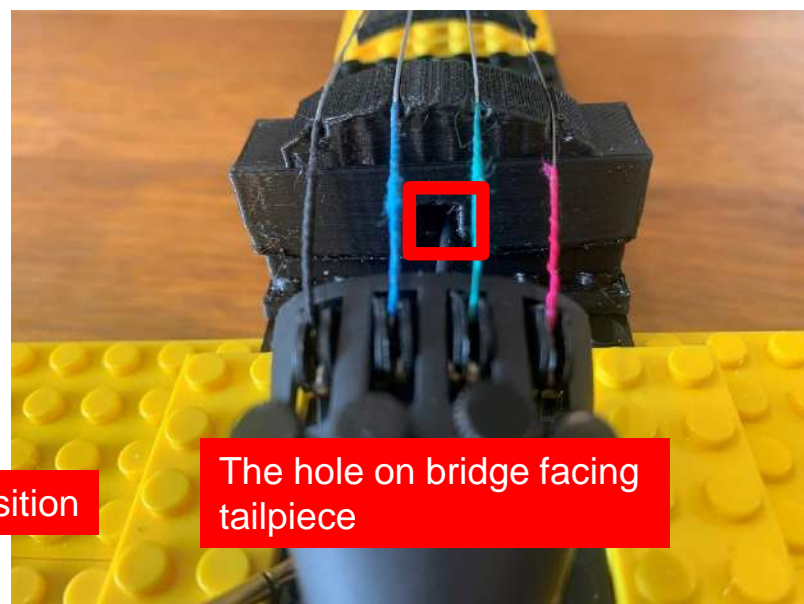
Install bridge



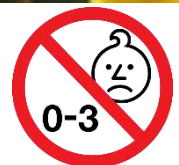
Place it next to the edge of side boxes



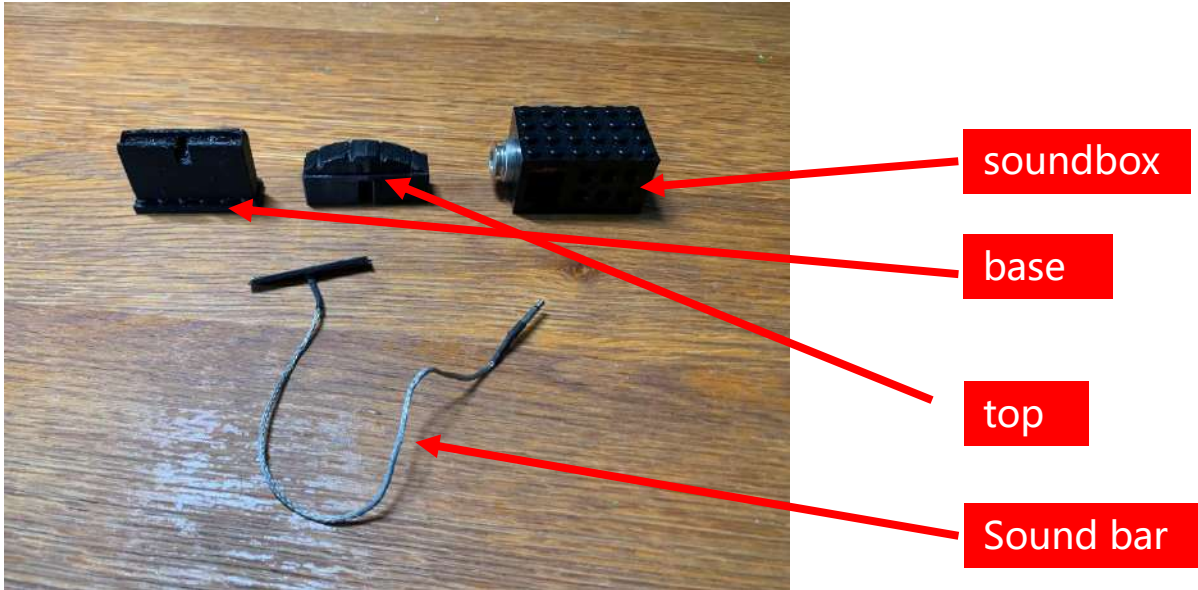
Place it in this position



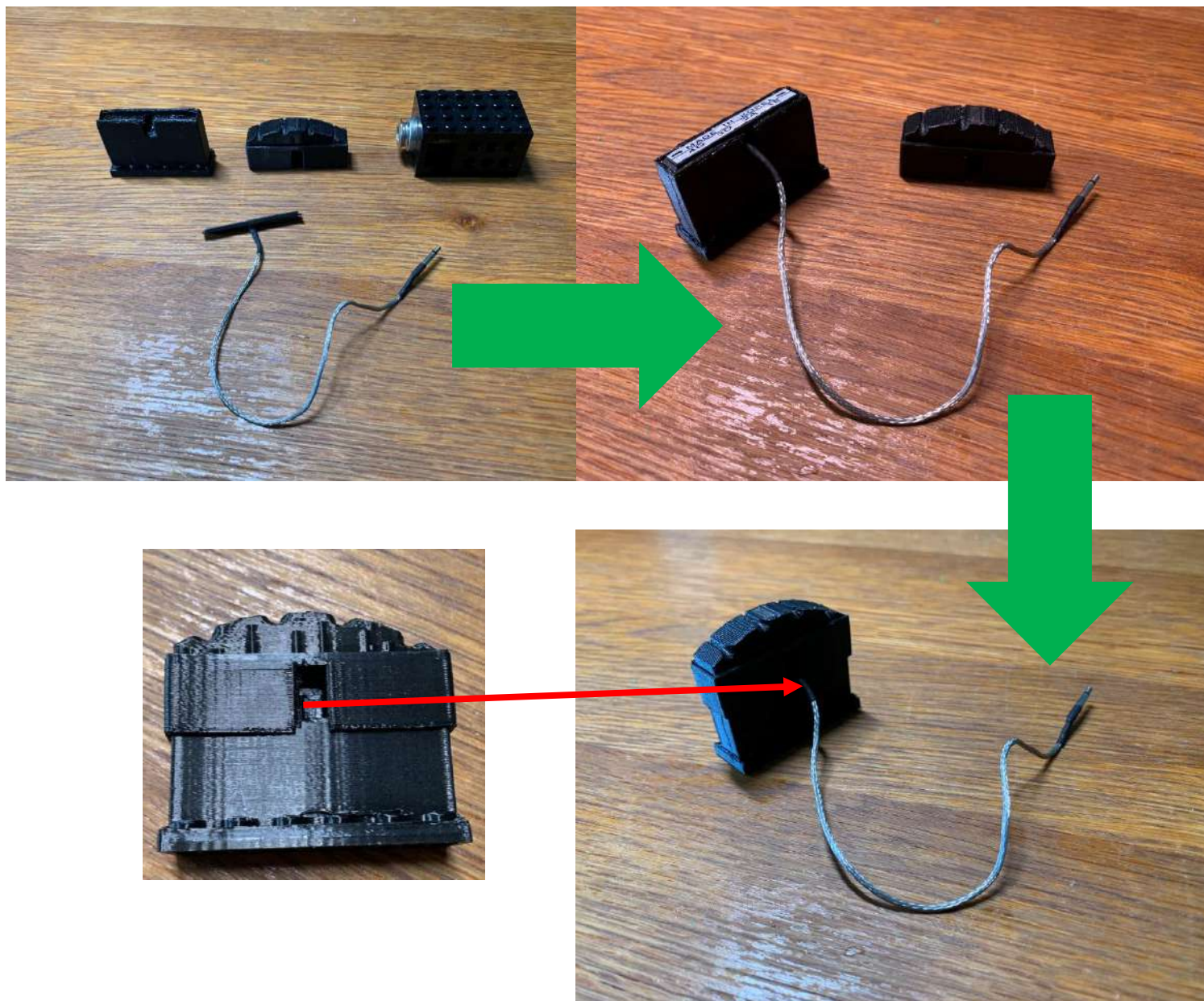
The hole on bridge facing tailpiece



Step 6 – for package with soundbox

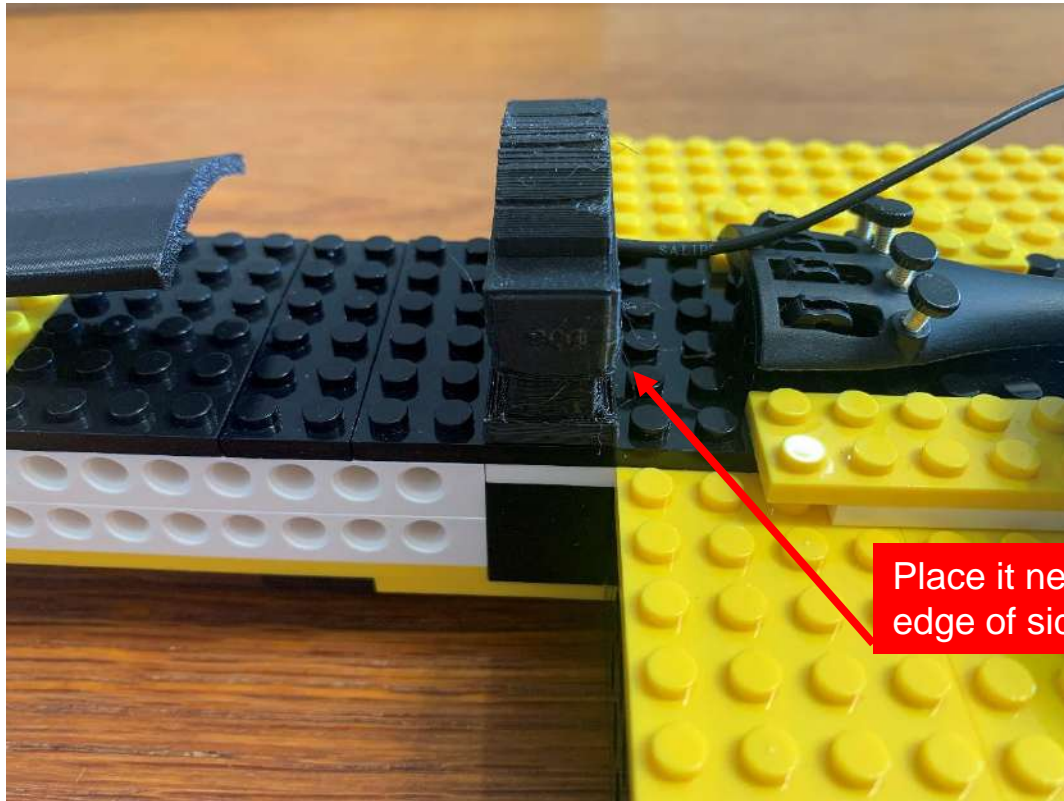


Step 6 – for package with soundbox



Step 6 – for package without soundbox

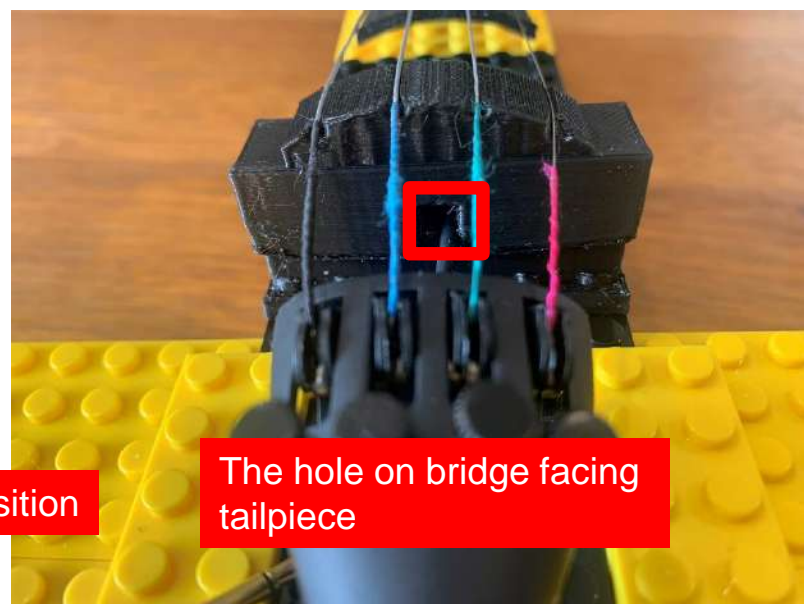
Install bridge



Place it next to the edge of side boxes



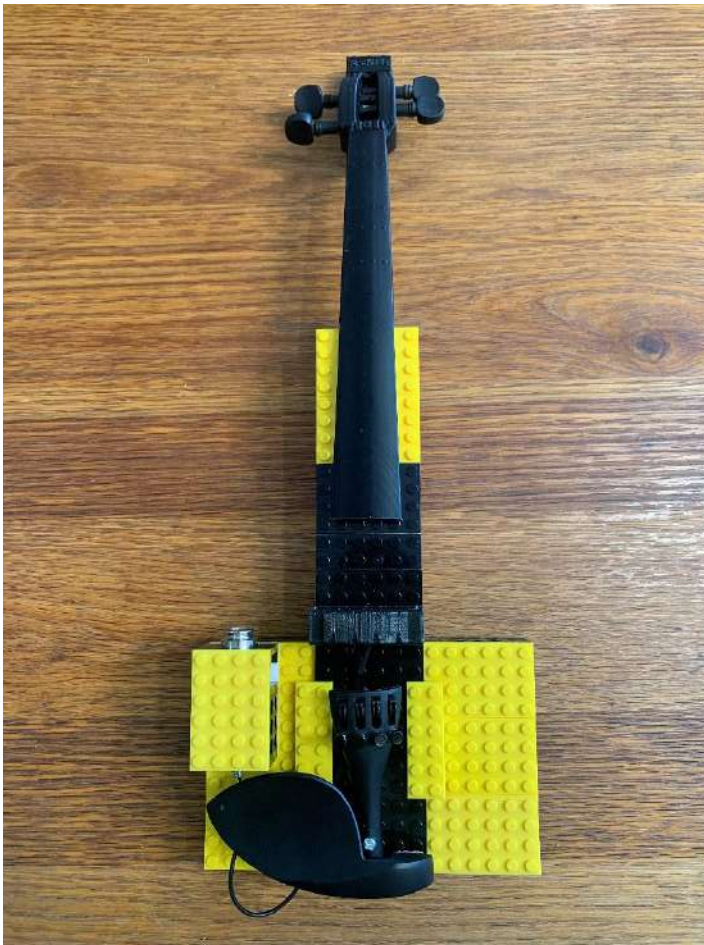
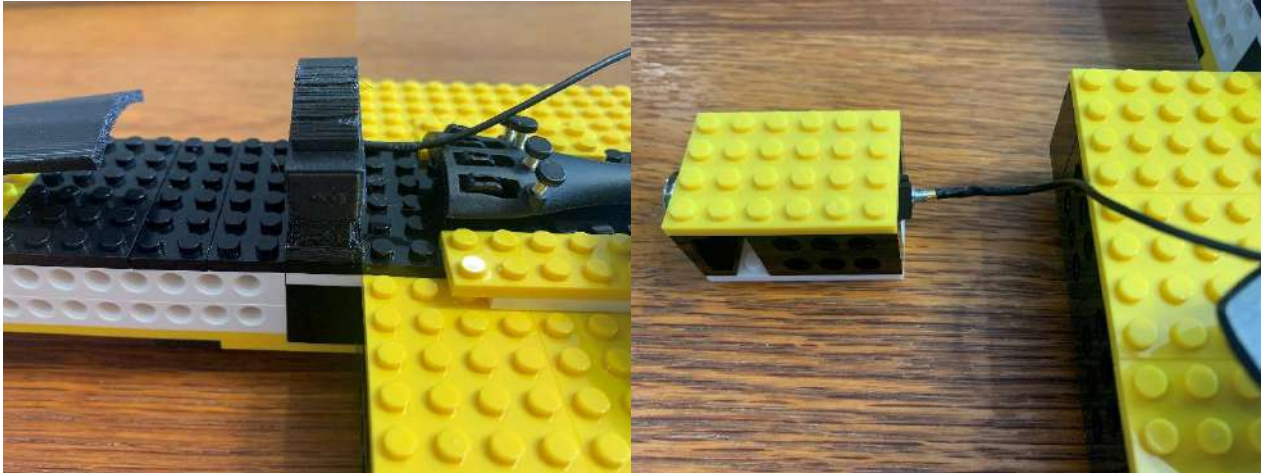
Place it in this position



The hole on bridge facing tailpiece



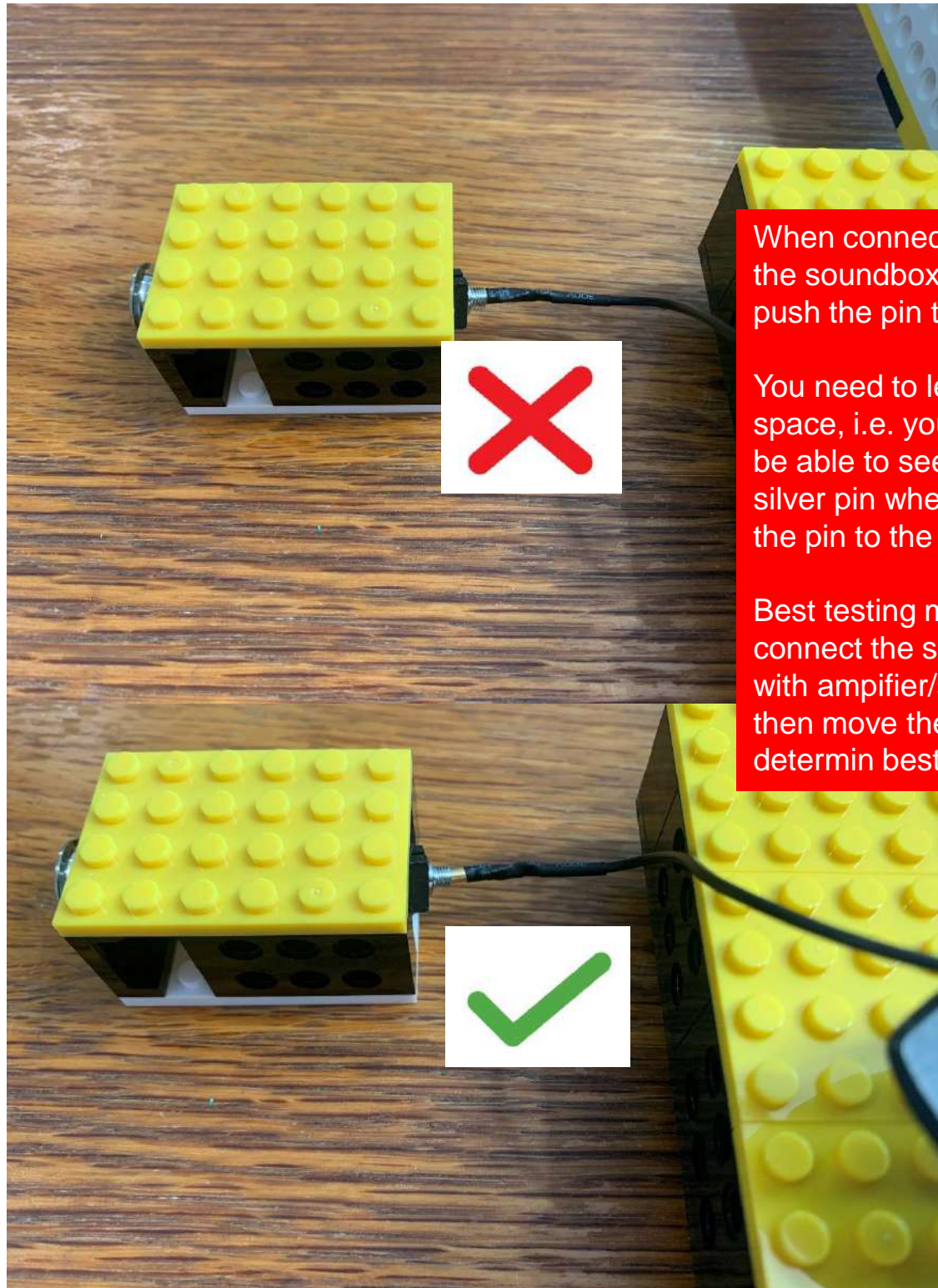
Step 6 – for package with soundbox



Plug 2.5mm jack into the
end of the soundbox



Step 6 - for package with soundbox



When connecting wire to the soundbox, DO NOT push the pin to the end,

You need to leave some space, i.e. you should still be able to see the end of silver pin when connected the pin to the box.

Best testing method is to connect the soundbox with amplifier/speaker, then move the pin in/out to determin best position.



Step 7

Install string and tune

Note:

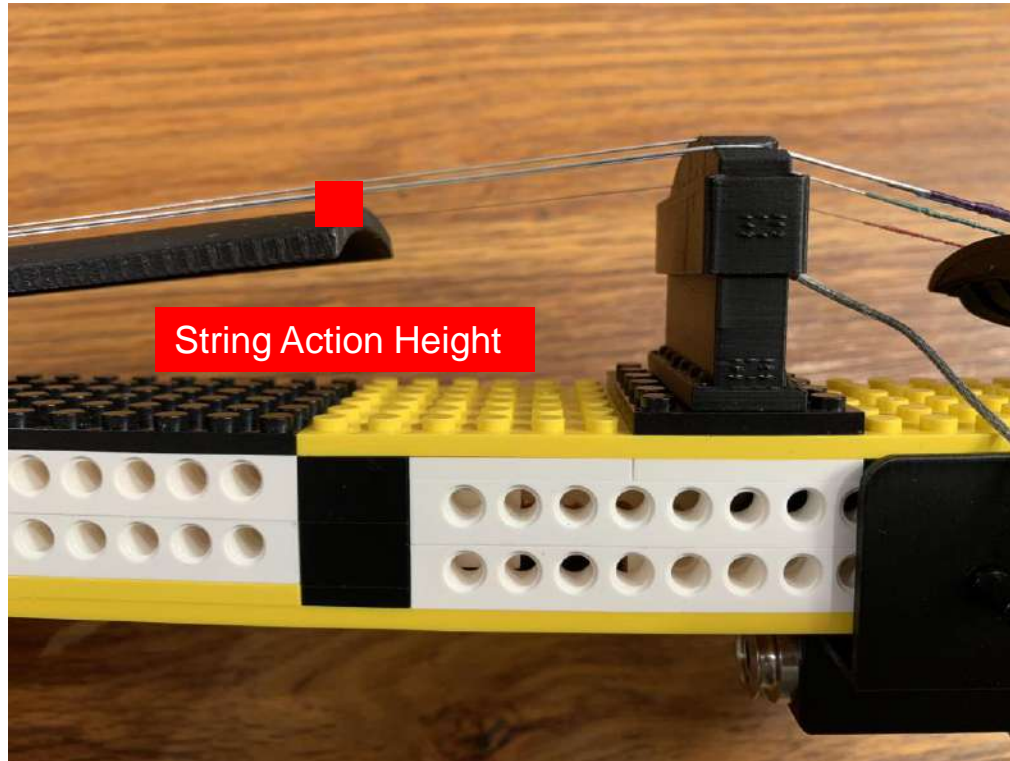
We have a video demonstration to guide you through installing strings and tuning, you can access this link directly or scan the qr code

<https://funkidviolin.com/how-to-string-restring-violin-and-how-to-tune/>



Attach bridge/soundbox to violin body

Note



When strings are installed and after they are tuned properly, you may find string height to the fingerboard is too low or too high.

In general, 3mm – 6mm range is appropriate range, however, it could be a personal choice.

String height is related to the bridge height.

When you feel the string is low, make the base higher with bricks, as seen to the left, we recommend placing 1 plate under the bridge.

Note that when string height is too low or even sticking to the fingerboard, violin can not make any sound.

