

Step 1 – Determine Design and Size

Determine the color/design and size of your violin.

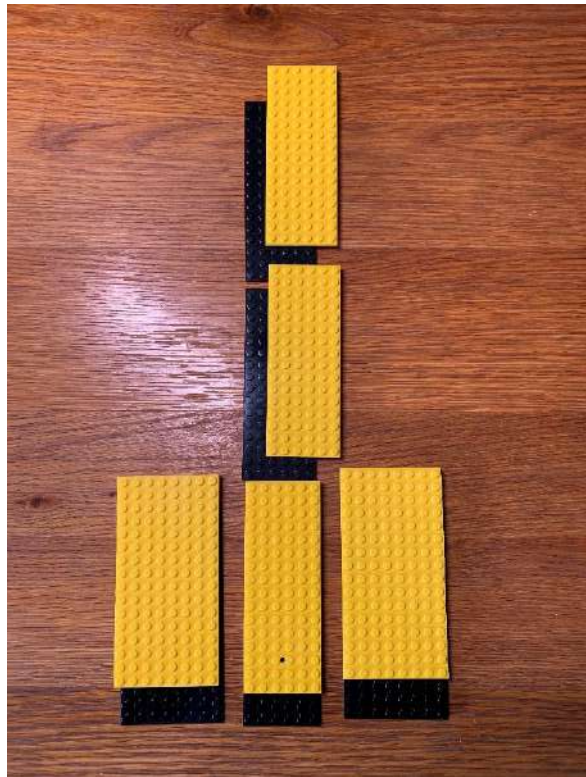
In general, three types of plates in two colors (primary and secondary color) are included, therefore you need to determine the color/design of your violin first.

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



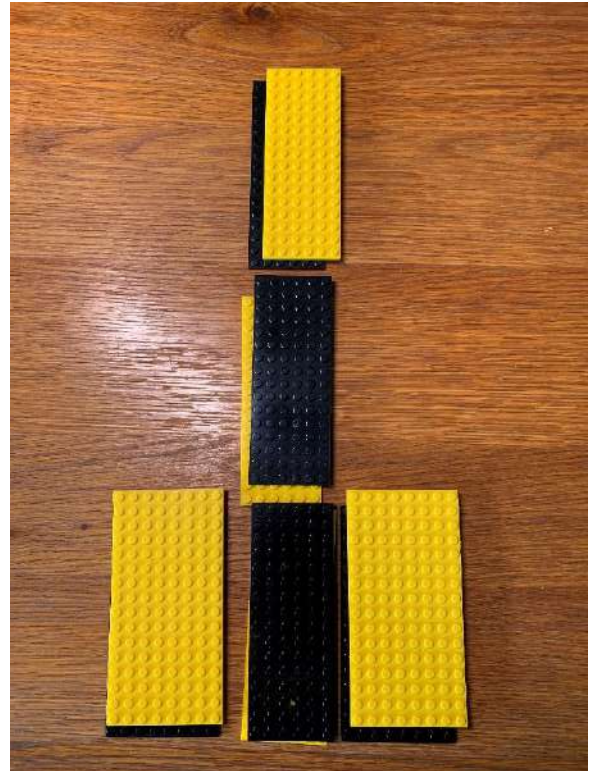
Pure yellow



Step 1 – Violin Design

Determin the colour/design and size of your violin

Yellow as primary colour



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 1/2, 3/4 and 4/4.

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 4/4 size of the design to the left.

For 4/4 size, please go through page 4 - 16 and 39 - end

For 3/4 size, please go through page 17 - 27 and 39 - end

For 1/2 size, please go through page 28 - end

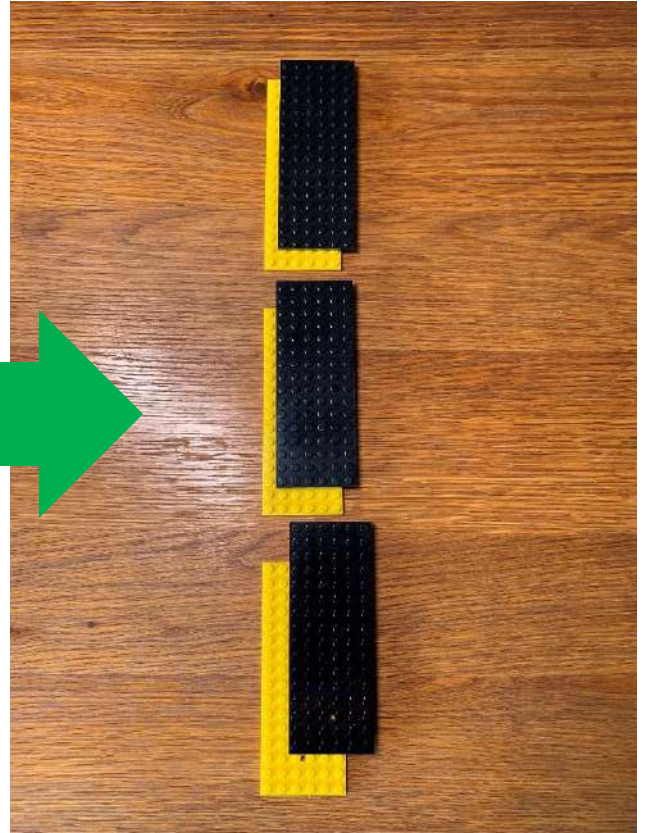


Step 2

Build spine of the violin.

4/4 size spine

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

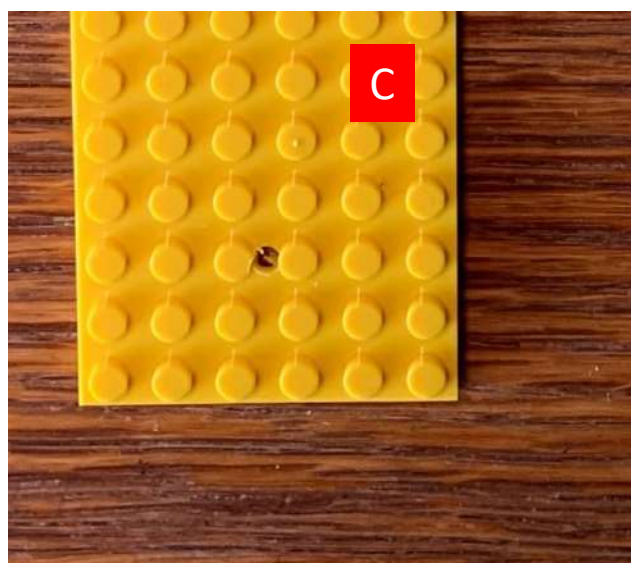
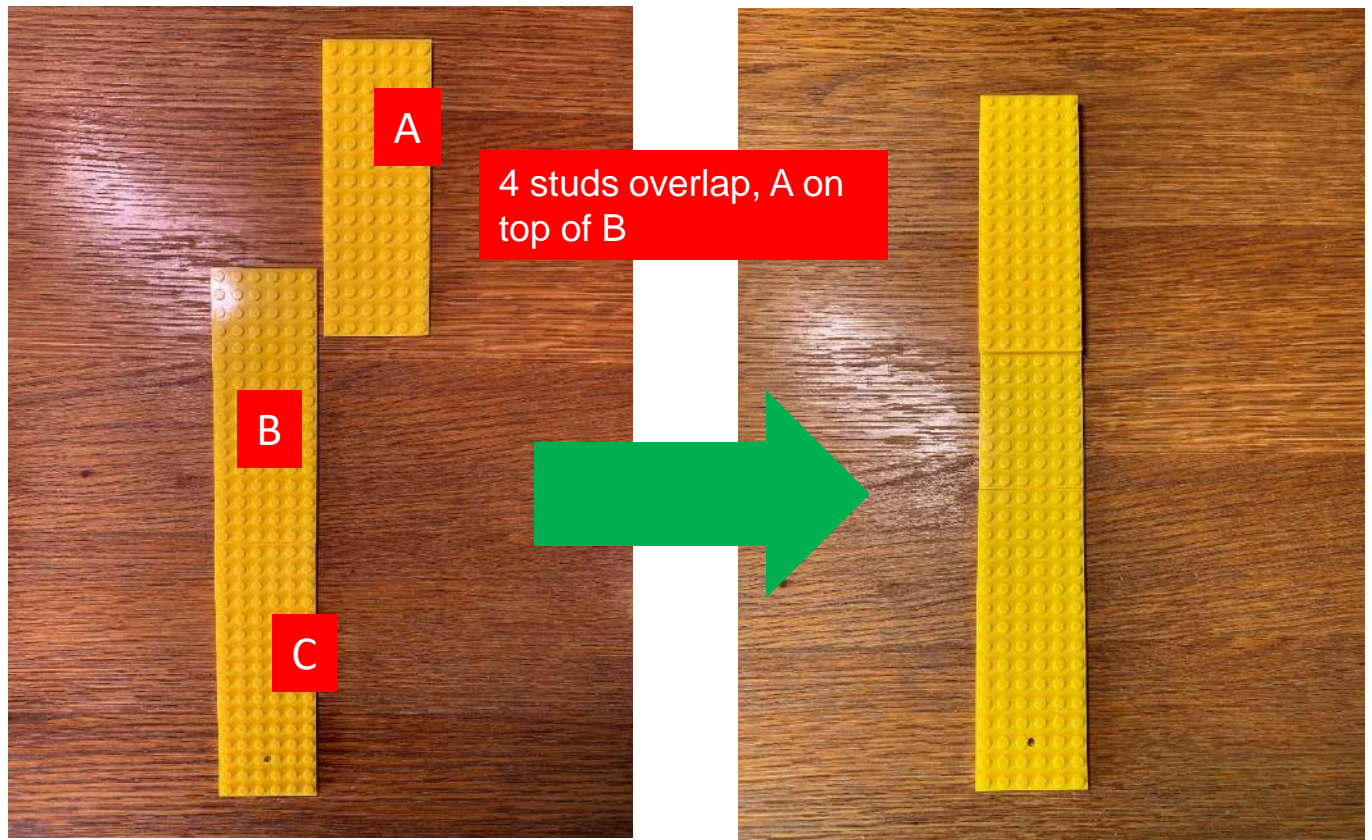


Step 2

Build spine of the violin.

4/4 size spine

Step 2a – lay out base of the back plate



Note:

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

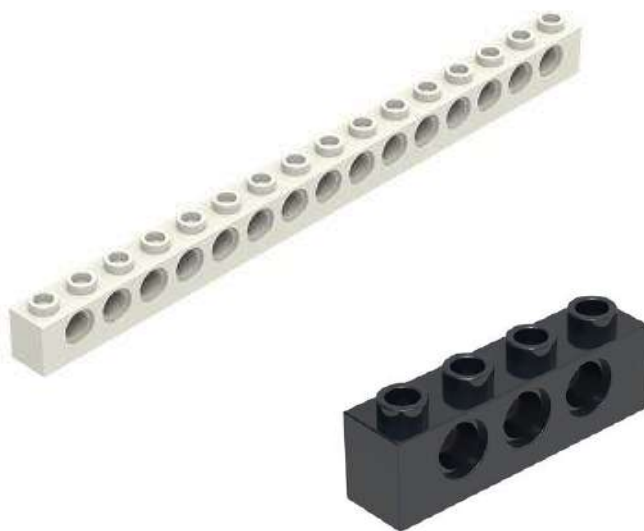
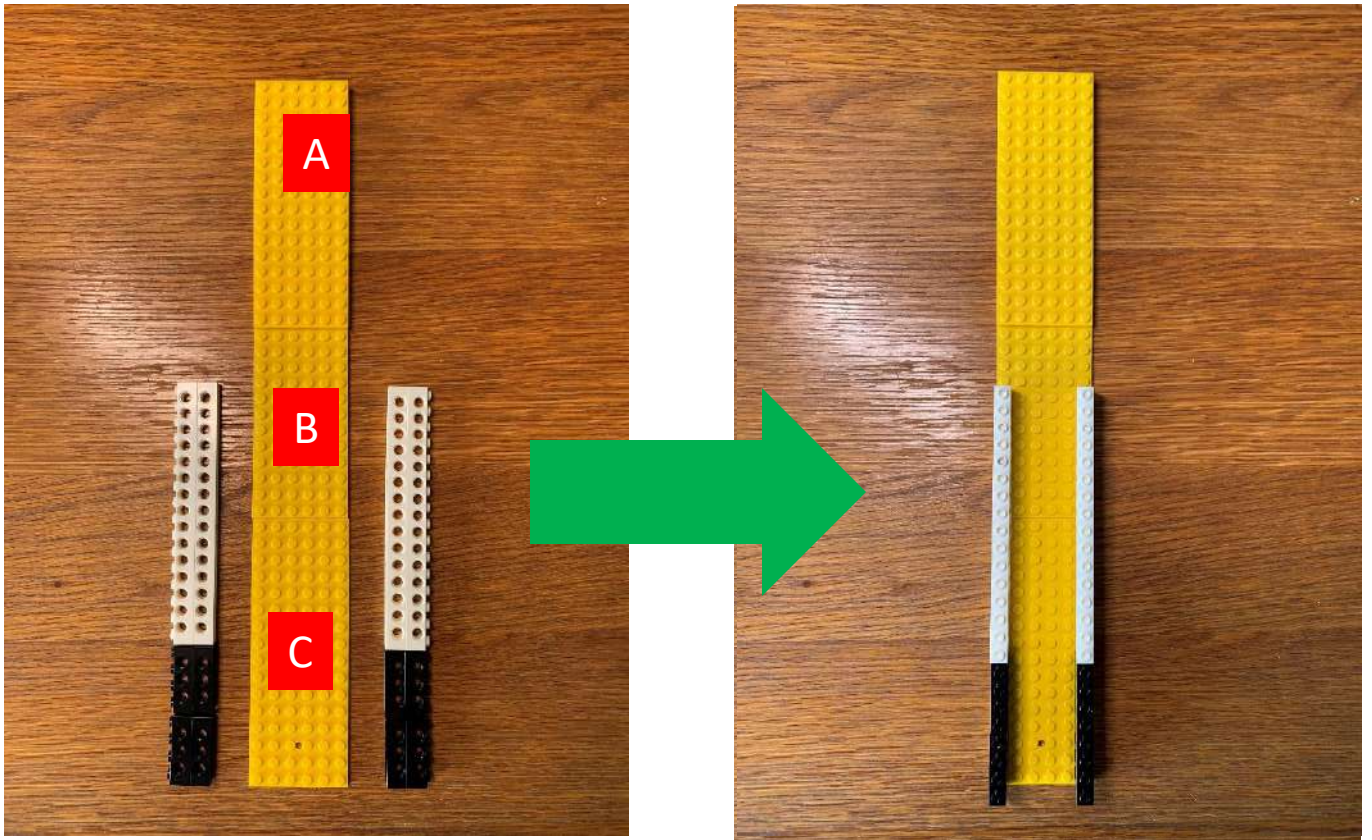


Step 2

Build spine of the violin.

4/4 size spine

Step 2b – connect B and C

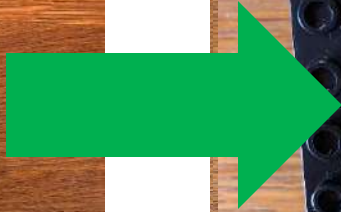
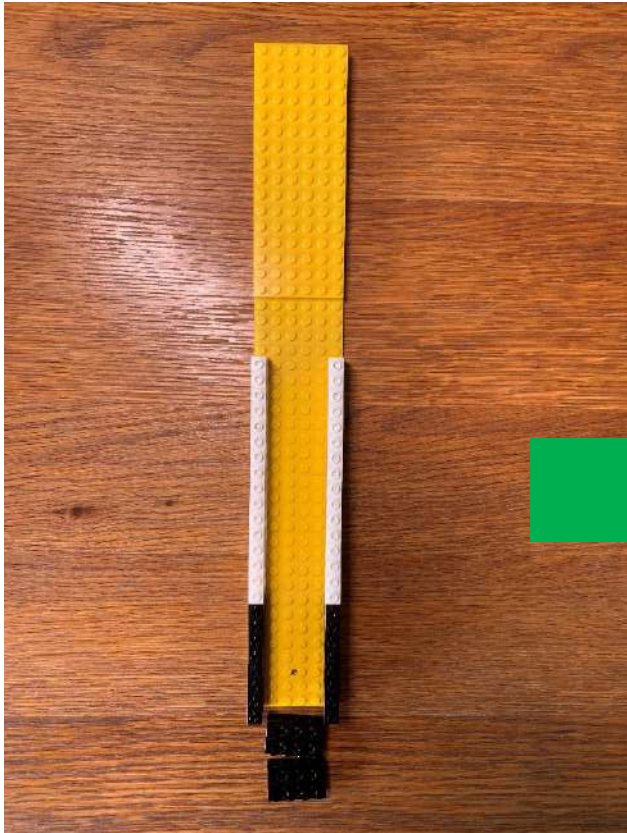


Step 2

Build spine of the violin.

4/4 size spine

Step 2c

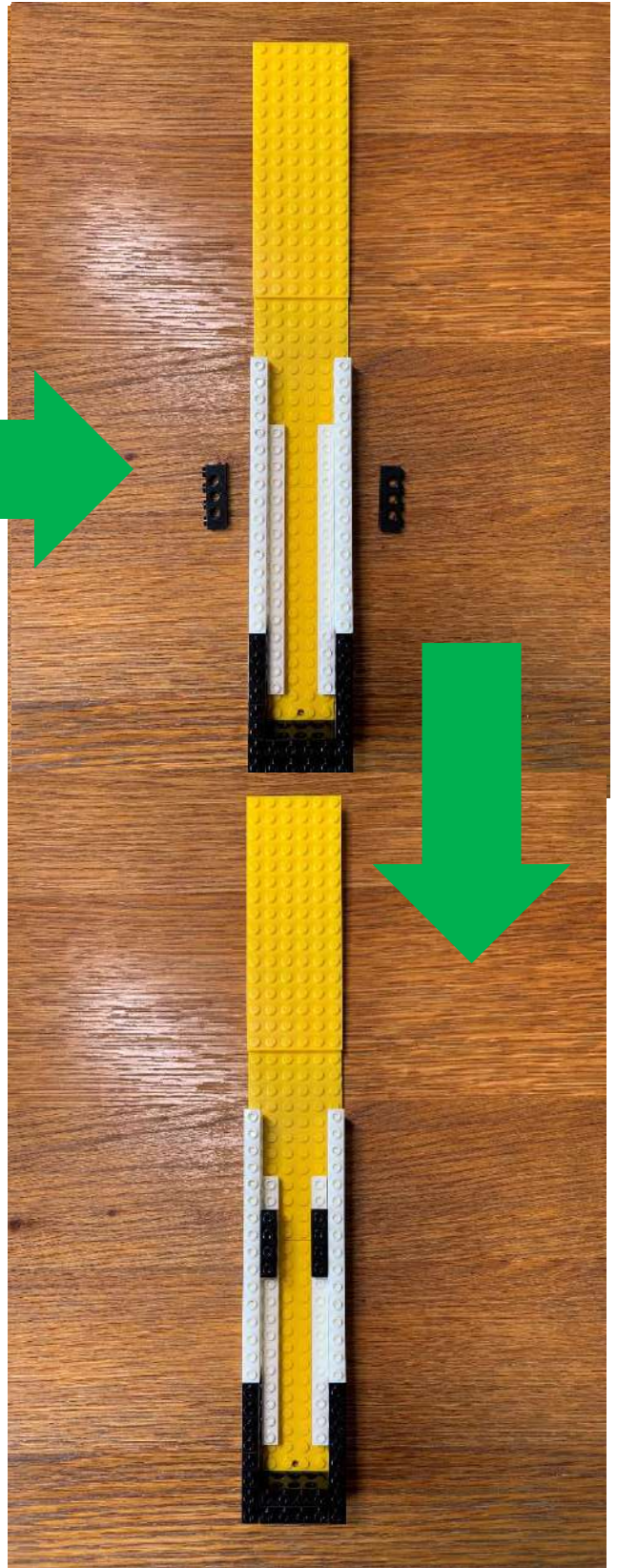
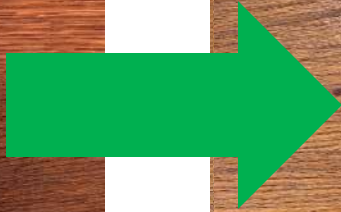
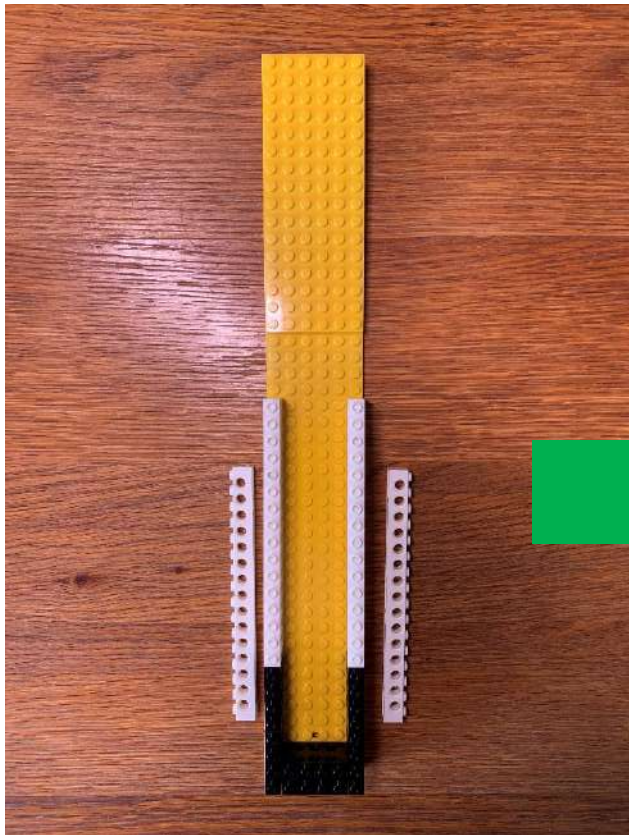


Step 2

Build spine of the violin.

4/4 size spine

Step 2d

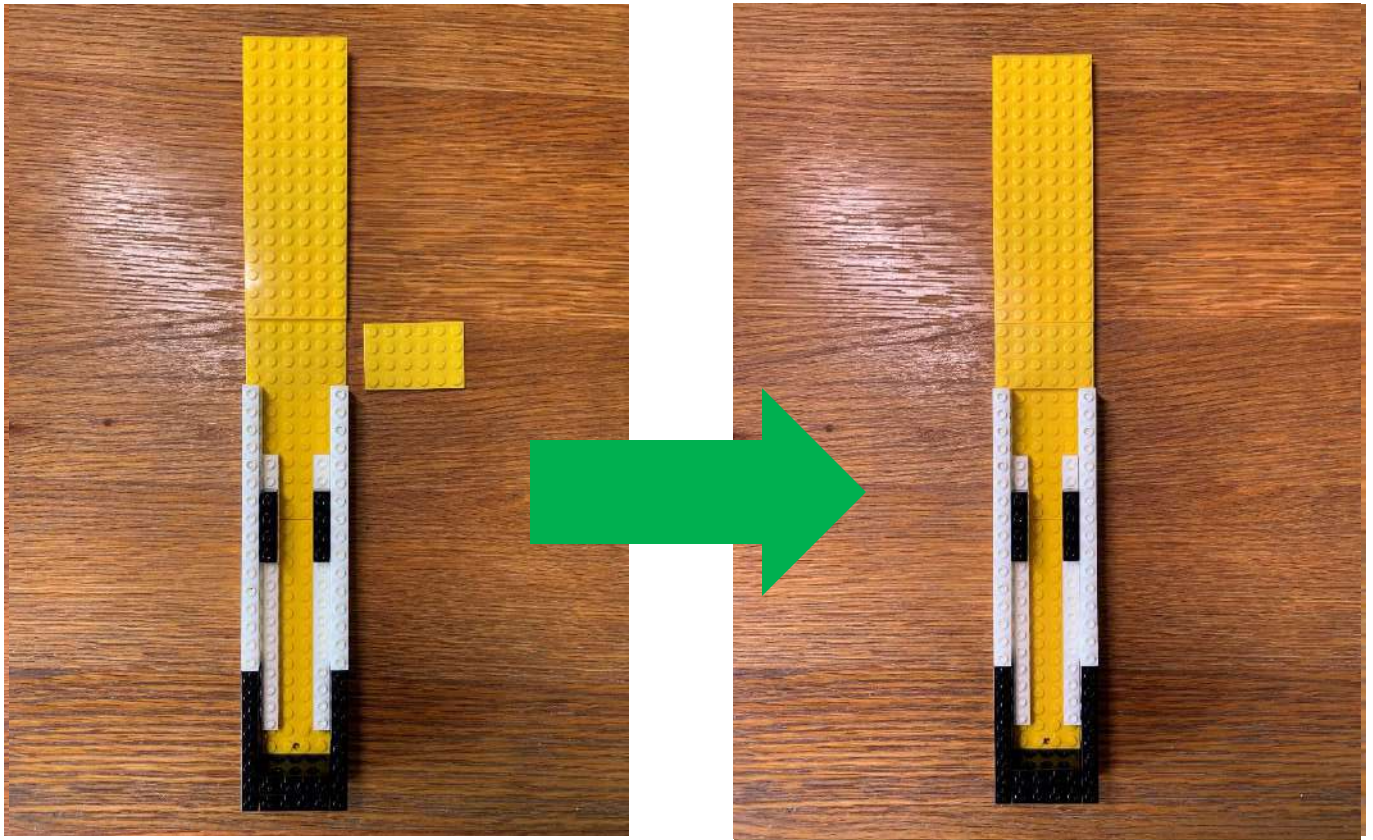


Step 2

Build spine of the violin.

4/4 size spine

Step 2e

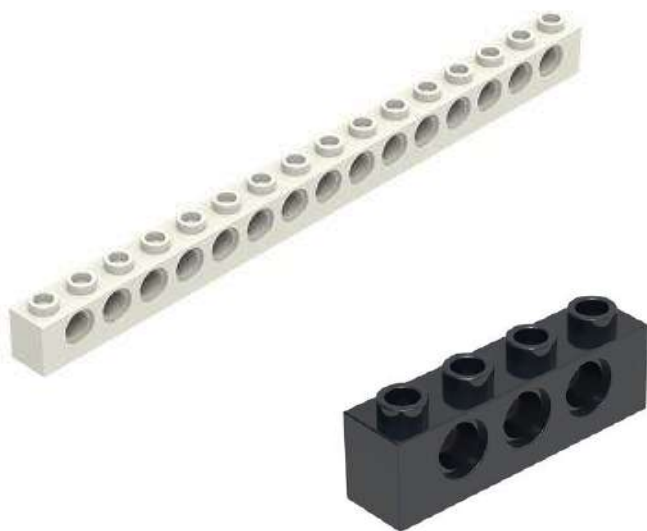
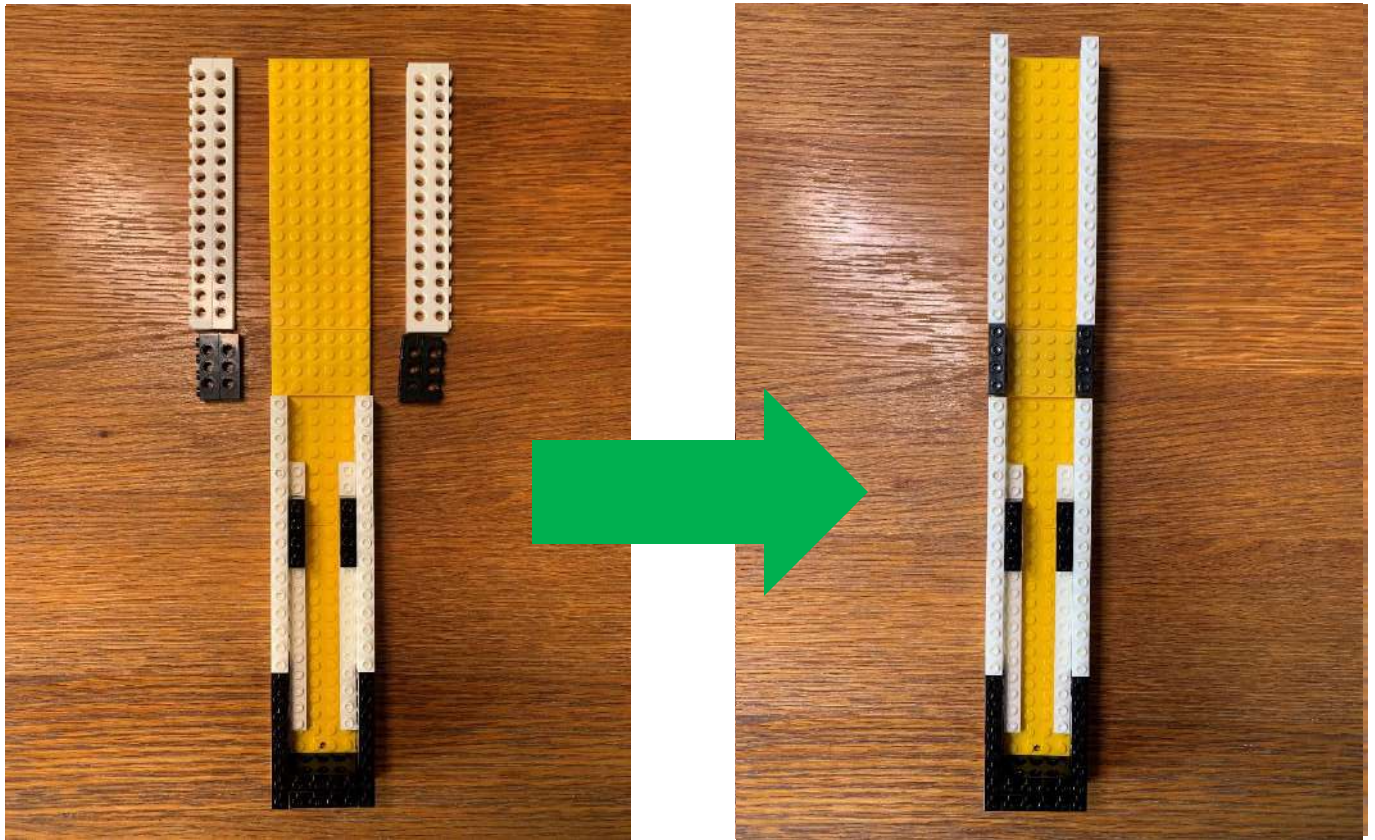


Step 2

Build spine of the violin.

4/4 size spine

Step 2f

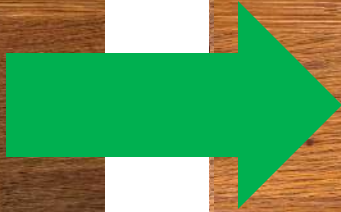
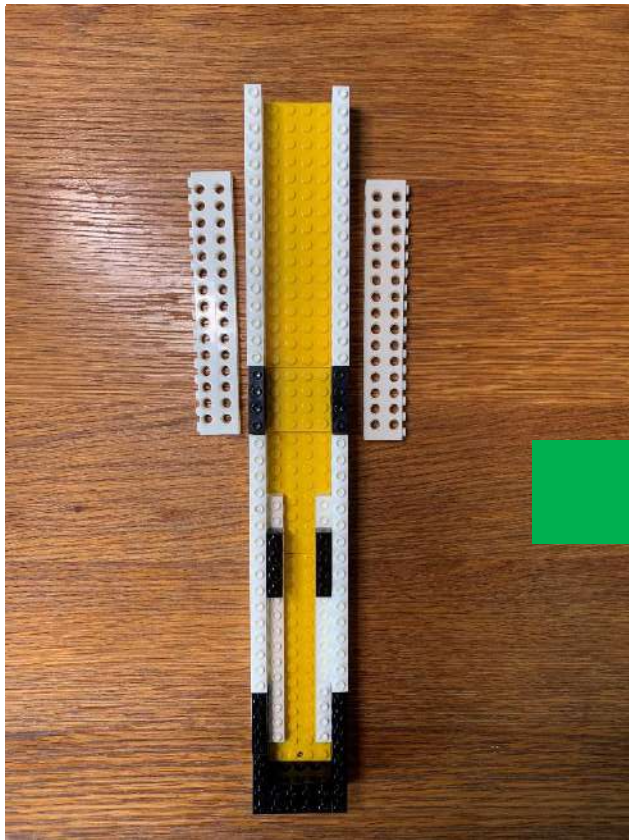


Step 2

Build spine of the violin.

4/4 size spine

Step 2g

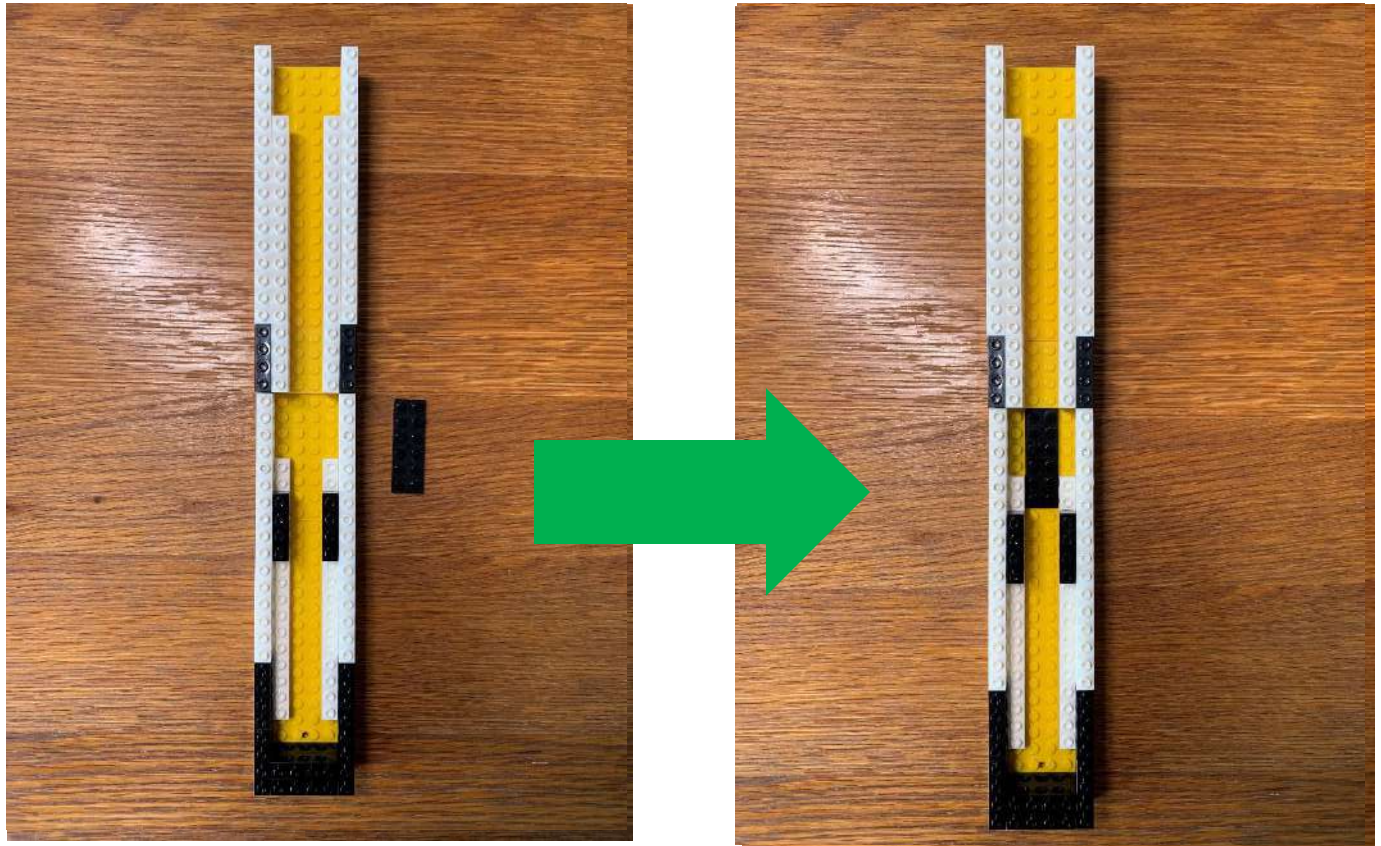


Step 2

Build spine of the violin.

4/4 size spine

Step 2h

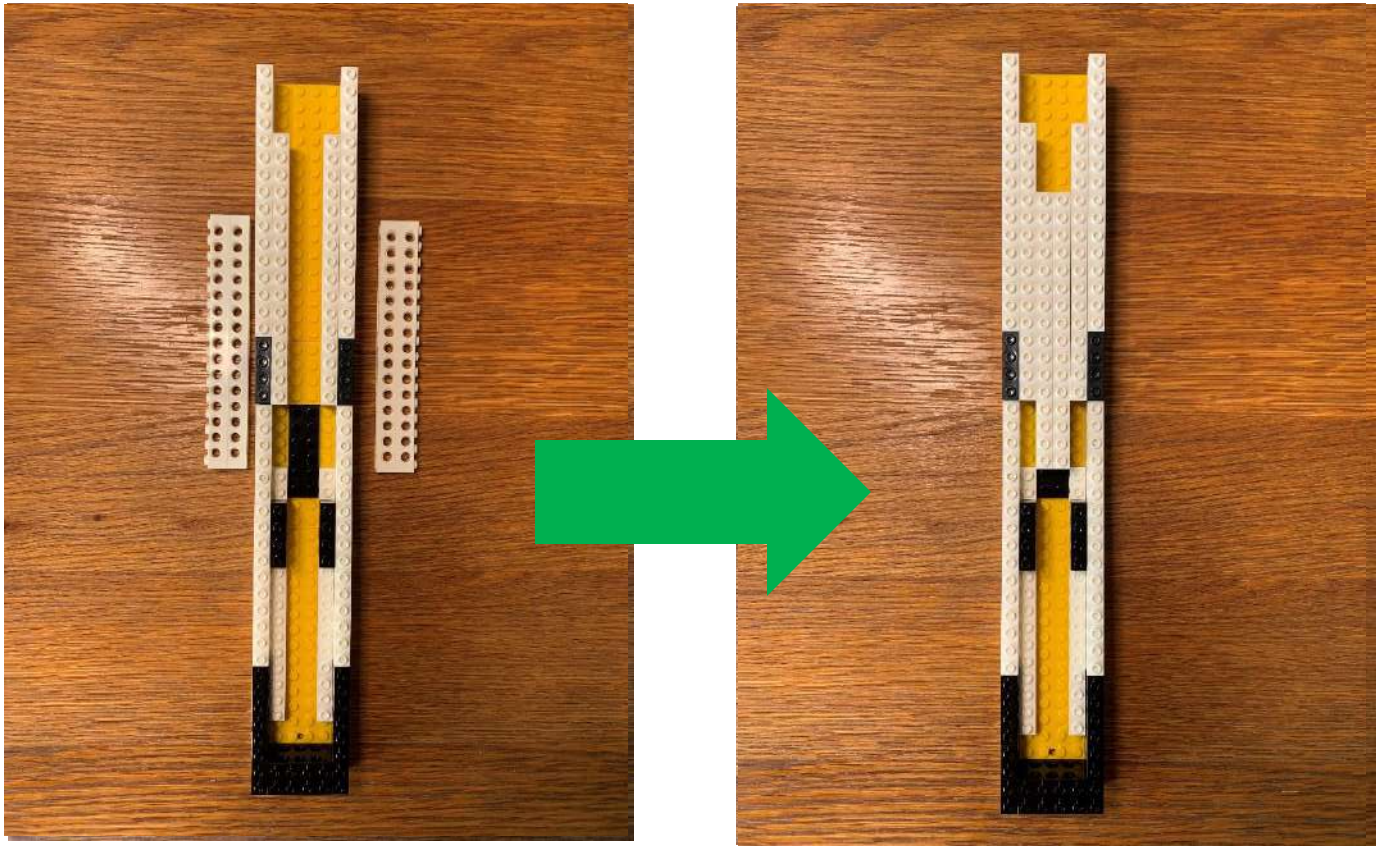


Step 2

Build spine of the violin.

4/4 size spine

Step 2i

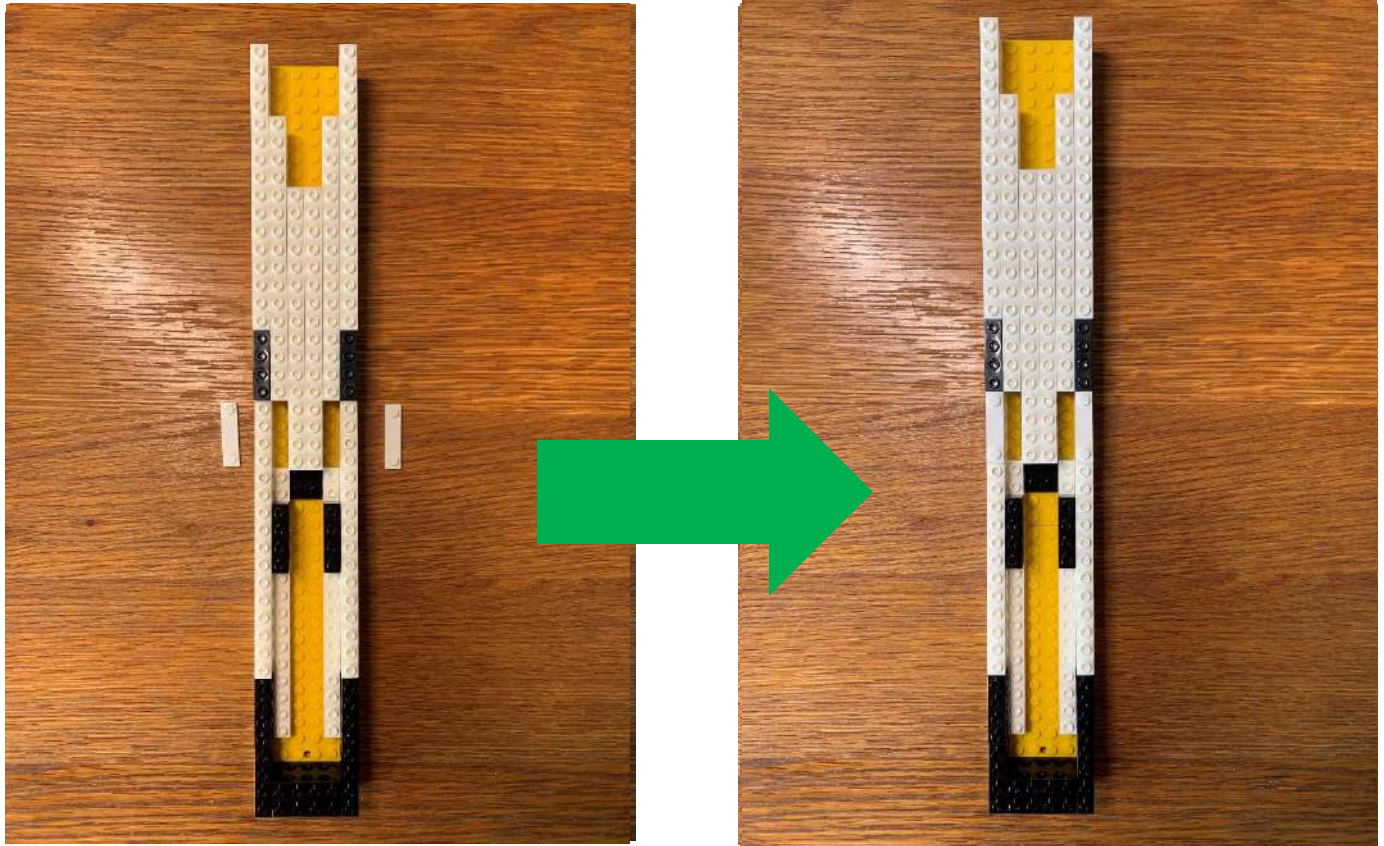


Step 2

Build spine of the violin.

4/4 size spine

Step 2j

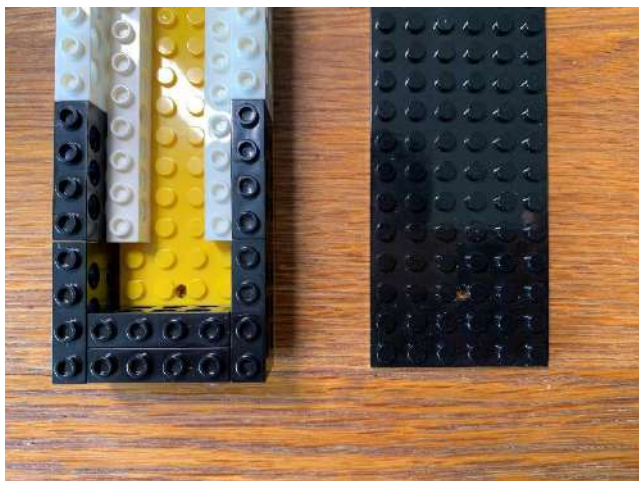
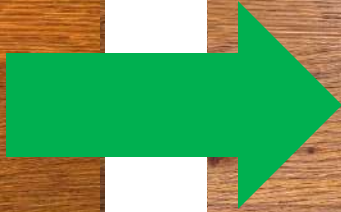
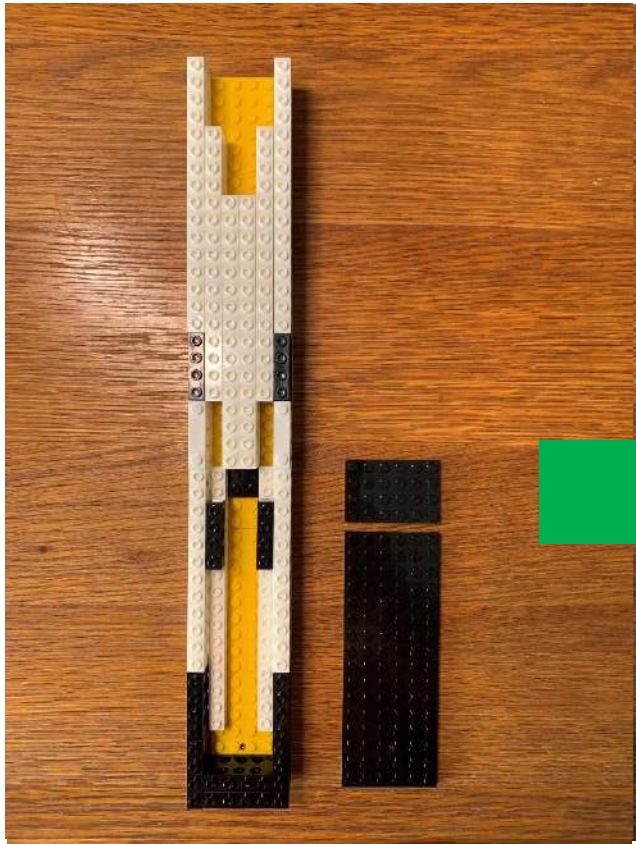


Step 2

Build spine of the violin.

4/4 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 spine of the violin.

4/4 size spine

Note:

4/4 size spine is done, please skip to page 39 for step 3

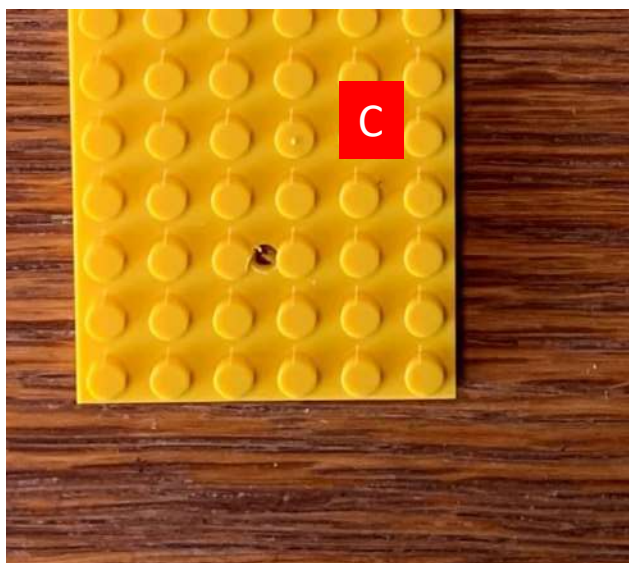
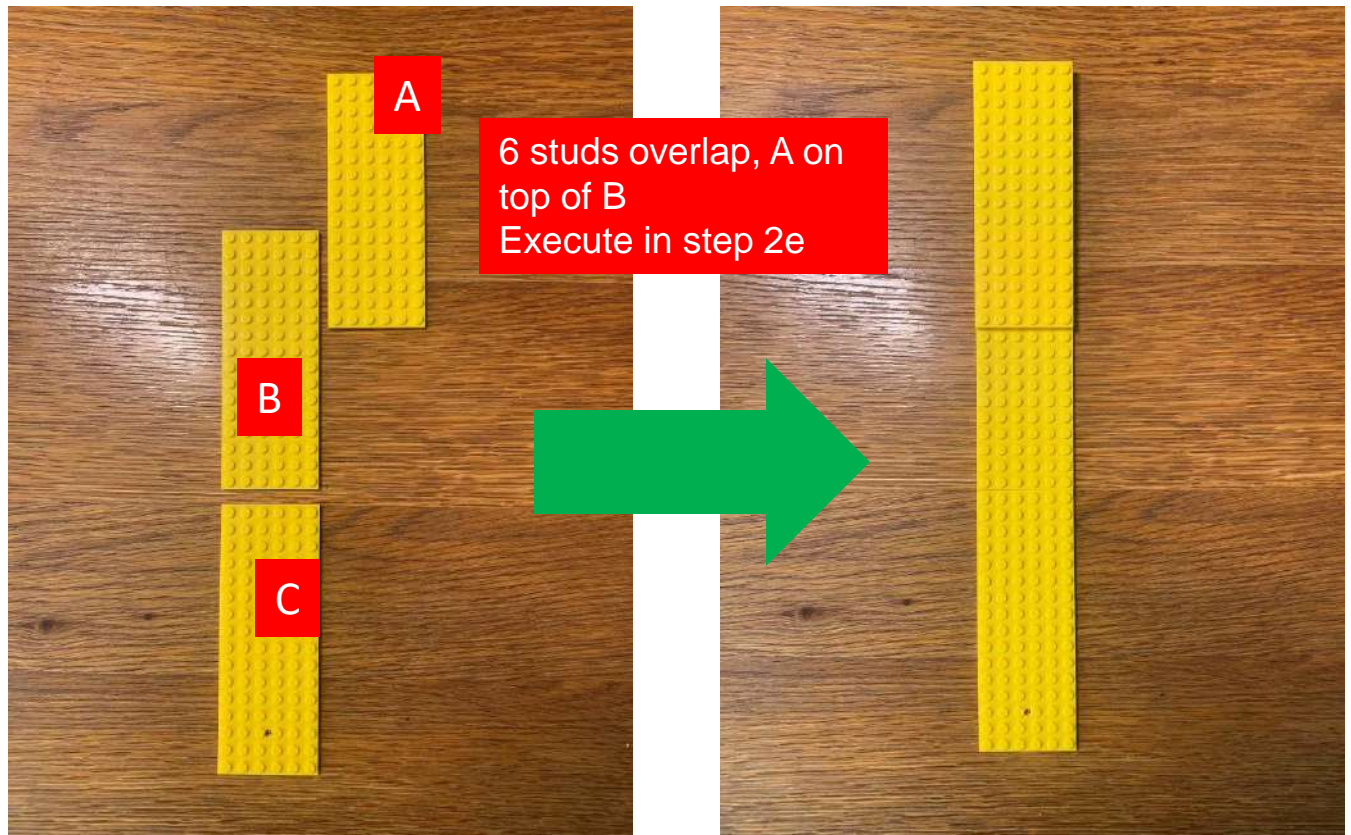


Step 2

Build spine of the violin.

3/4 size spine

Step 2a – lay out base of the back plate



Note:

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

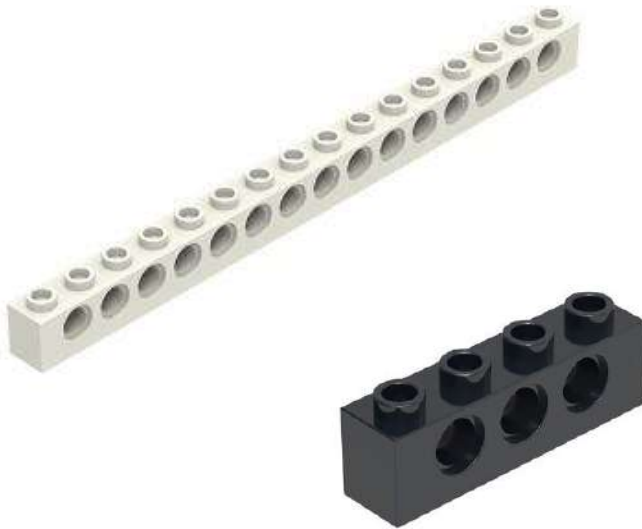
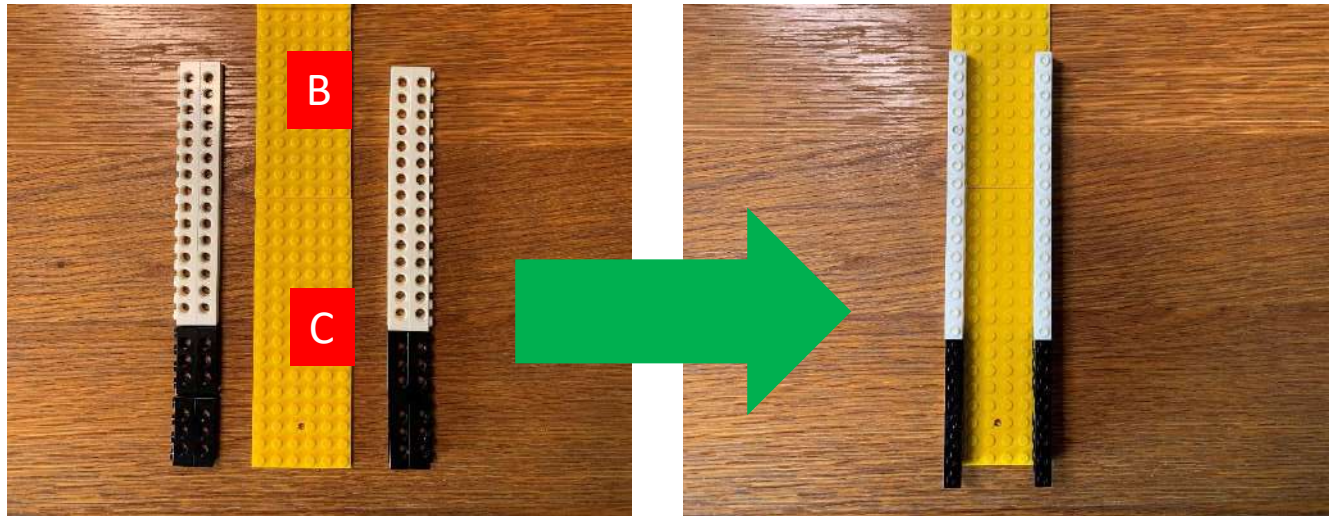


Step 2

Build spine of the violin.

3/4 size spine

Step 2b – connect B and C

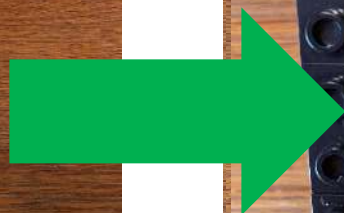
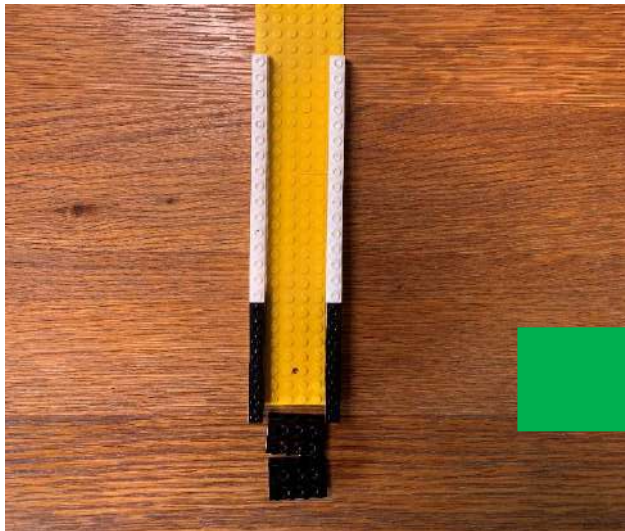


Step 2

Build spine of the violin.

3/4 size spine

Step 2c

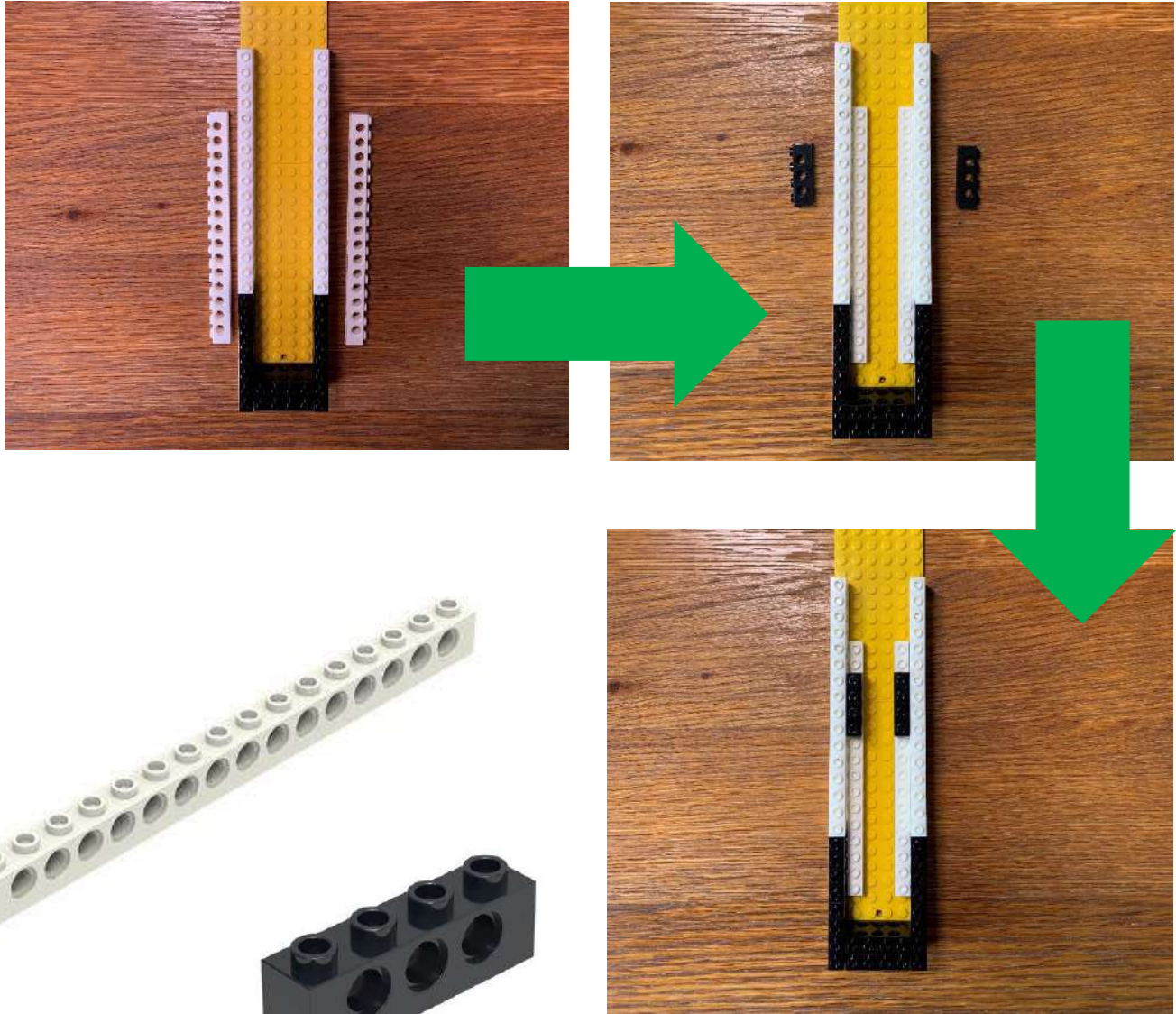


Step 2

Build spine of the violin.

3/4 size spine

Step 2d

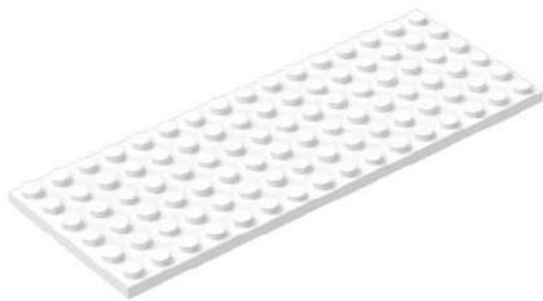
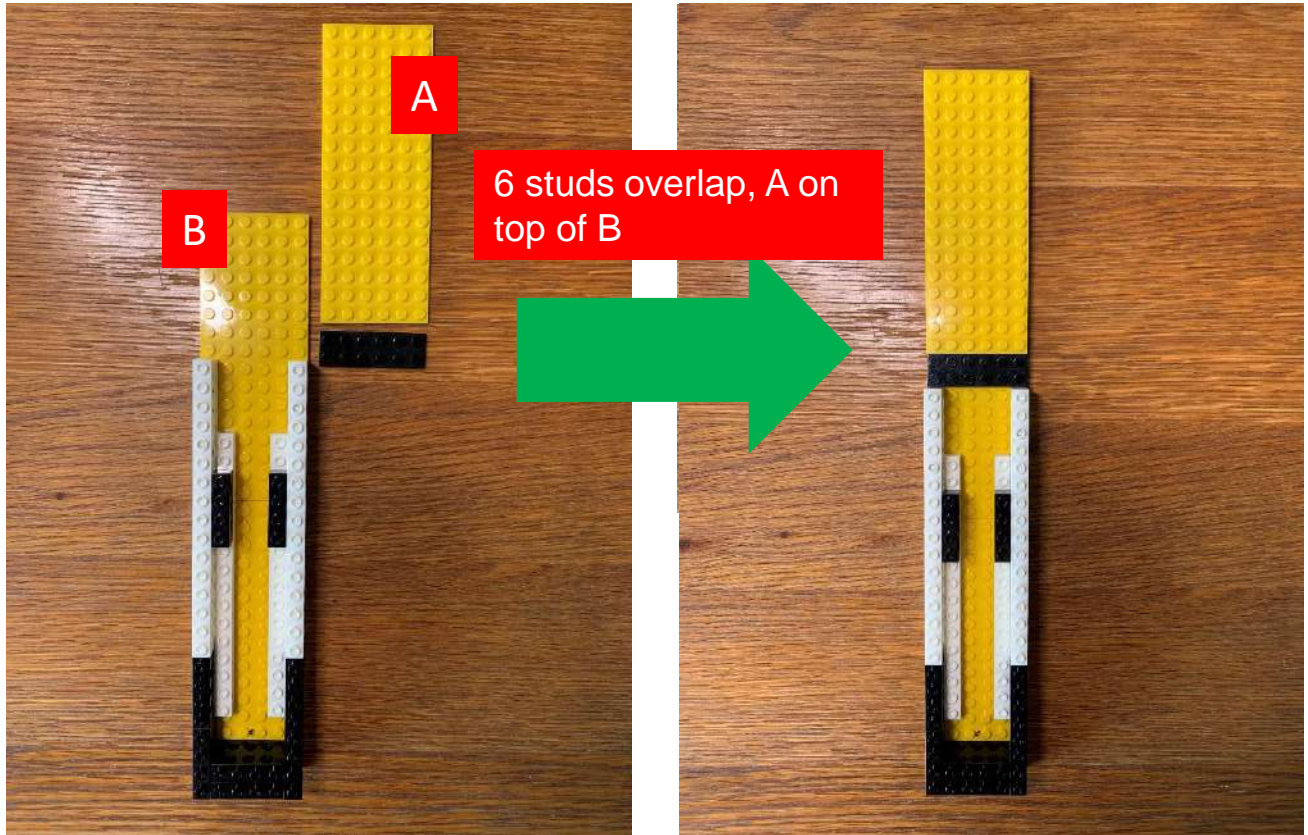


Step 2

Build spine of the violin.

3/4 size spine

Step 2e

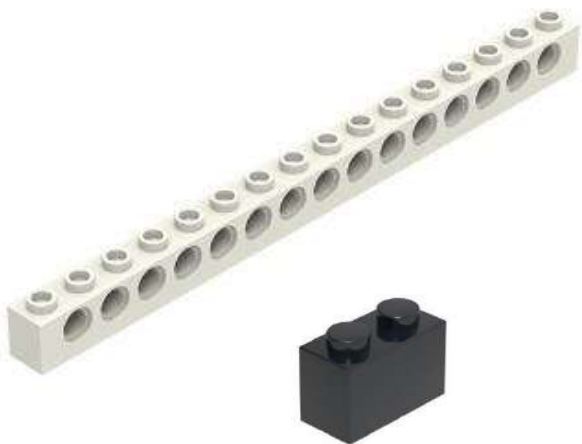
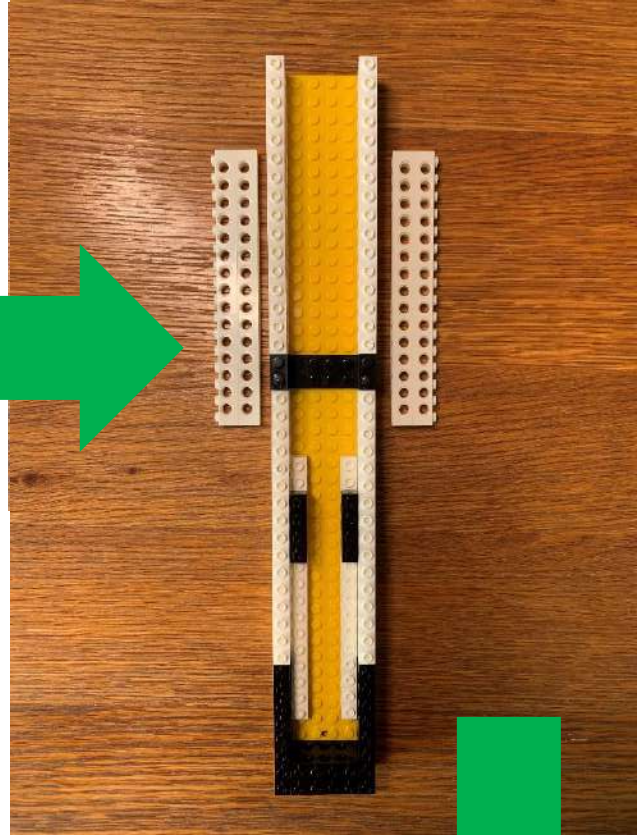
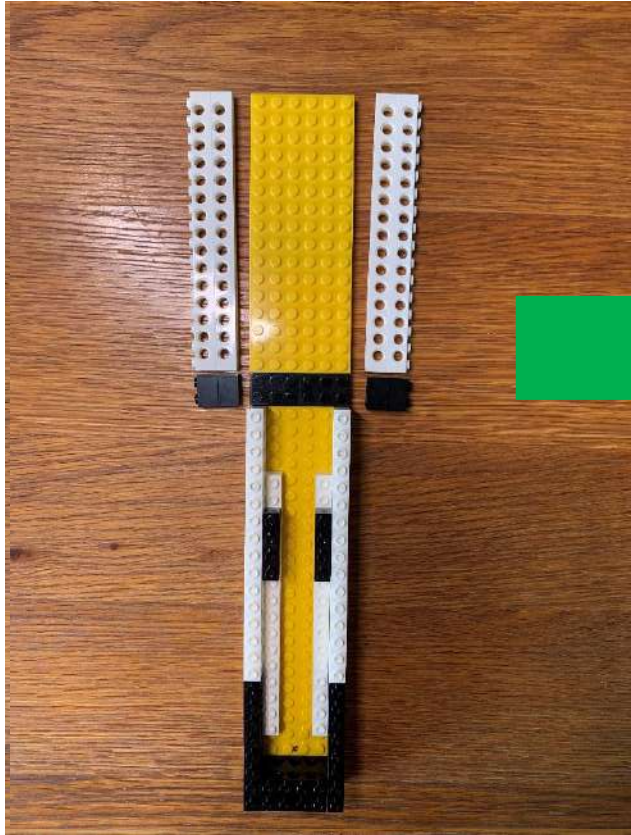


Step 2

Build spine of the violin.

3/4 size spine

Step 2f

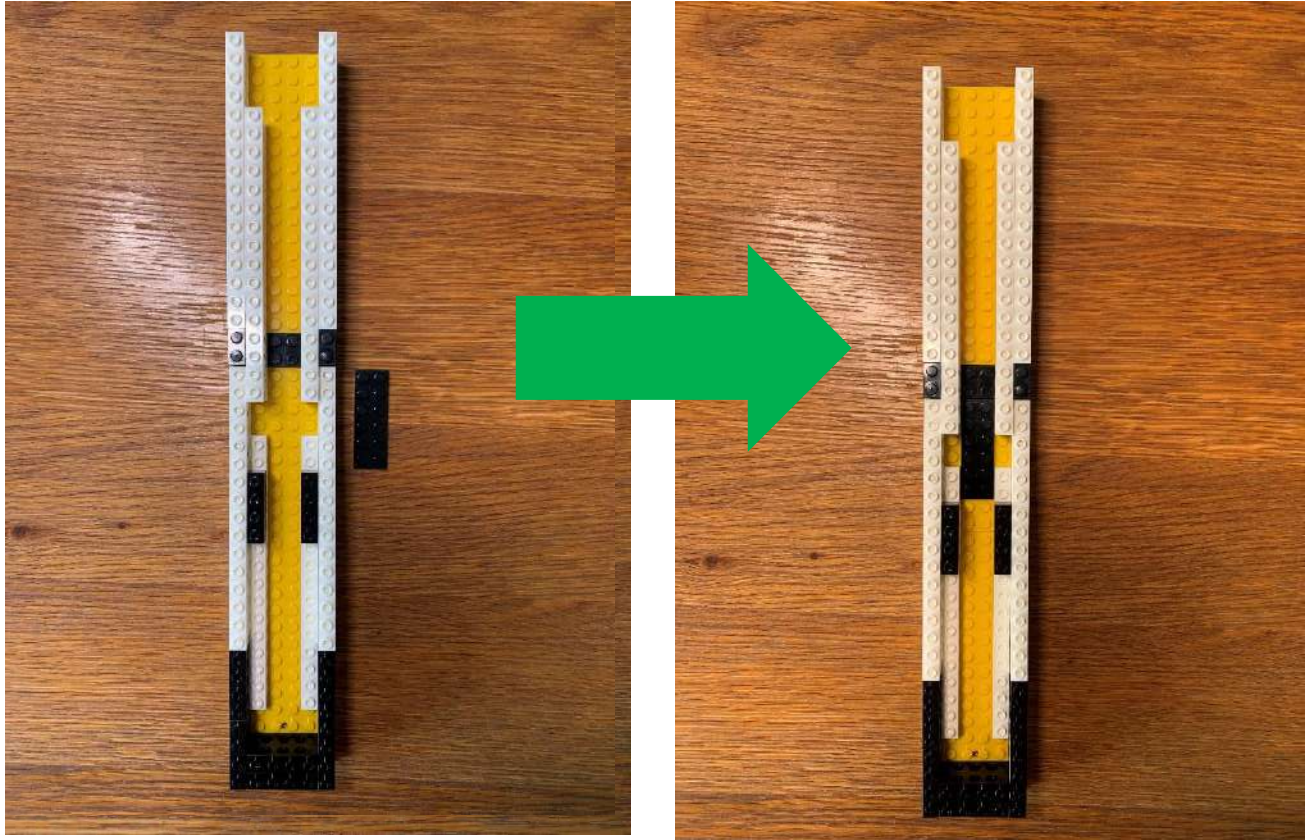


Step 2

Build spine of the violin.

3/4 size spine

Step 2g

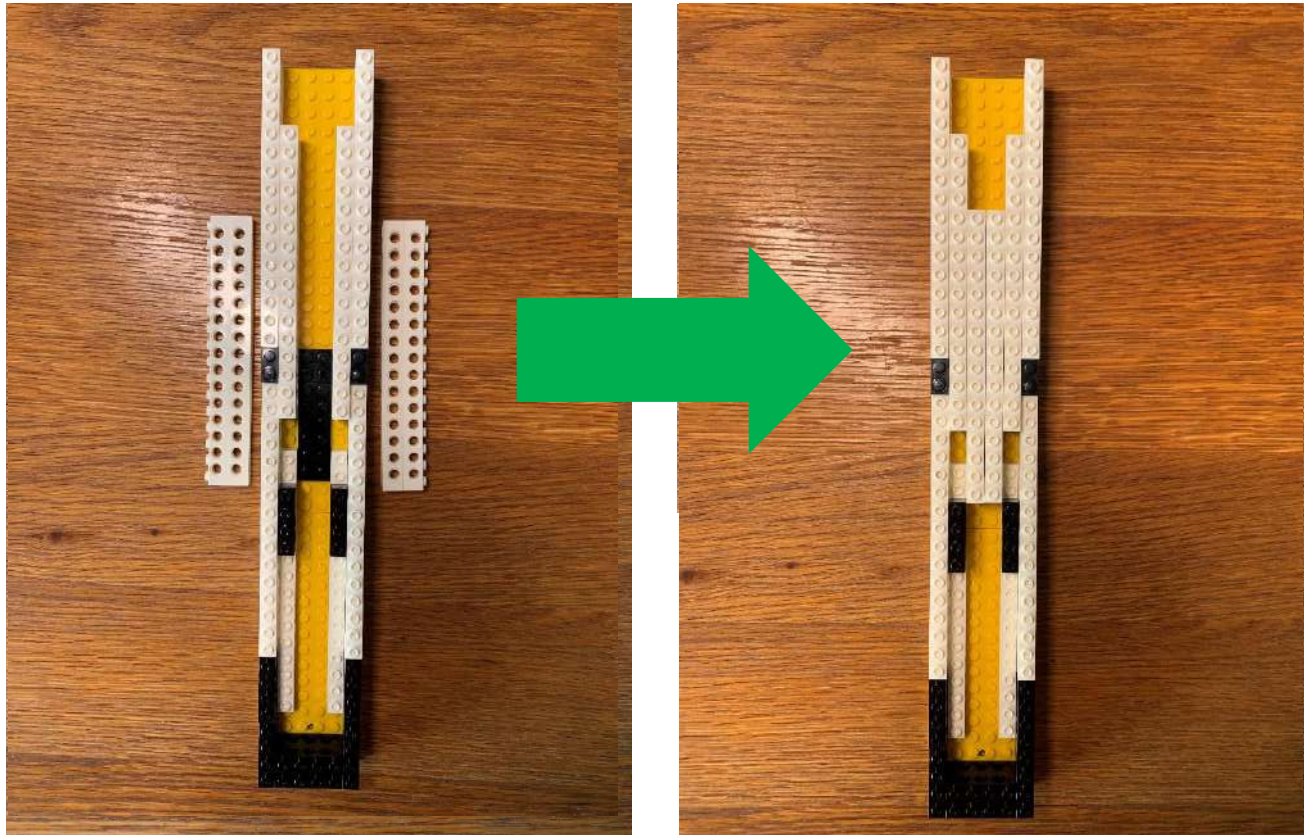


Step 2

Build spine of the violin.

3/4 size spine

Step 2h

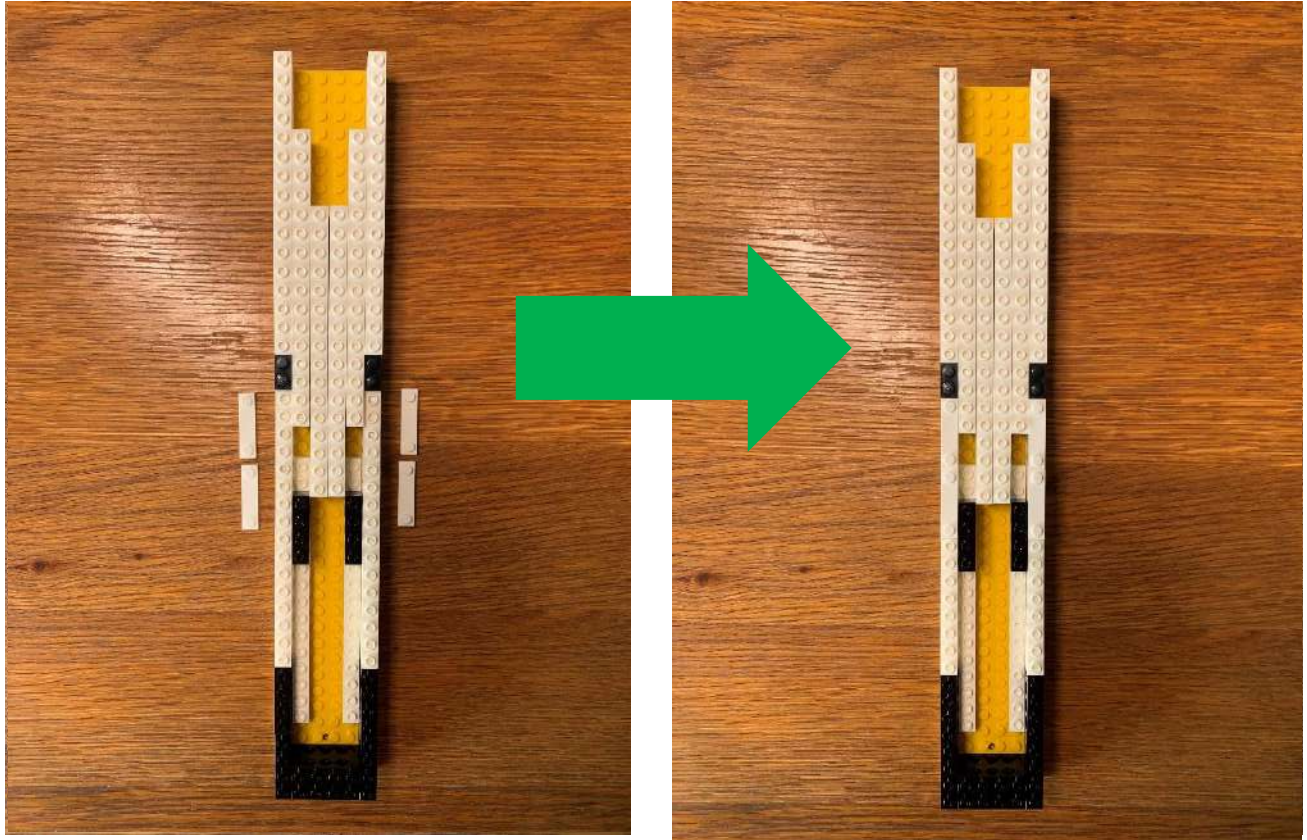


Step 2

Build spine of the violin.

3/4 size spine

Step 2i

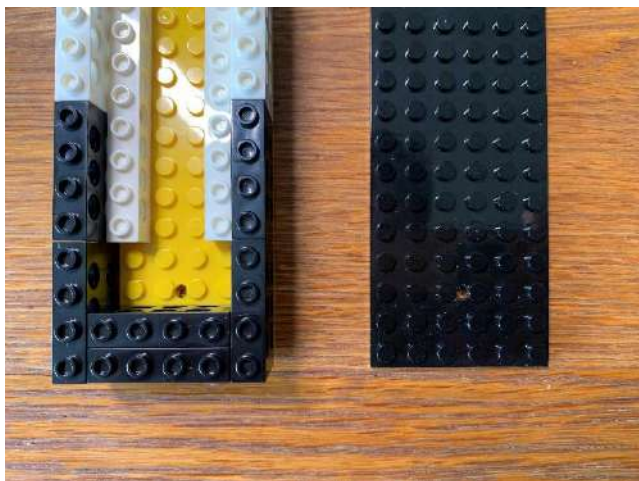
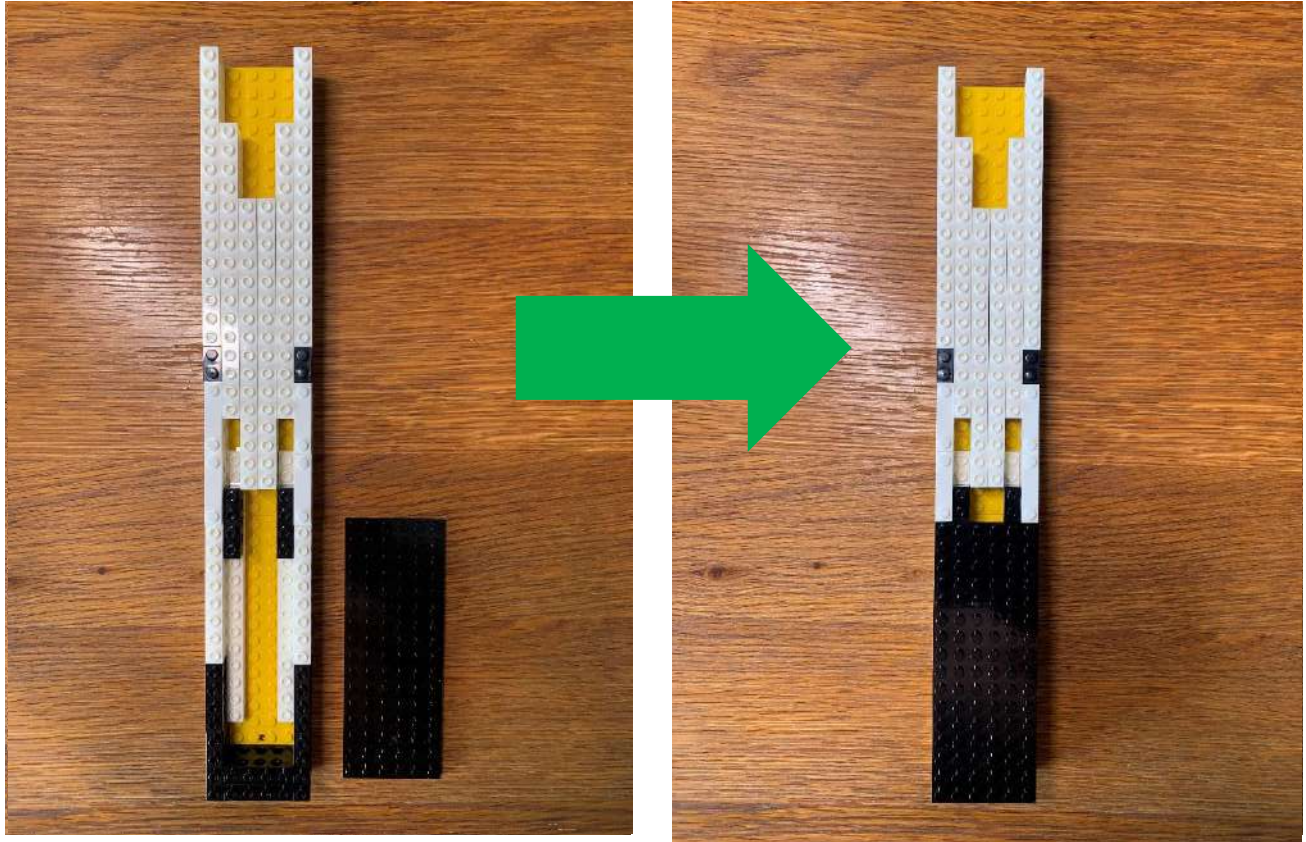


Step 2

Build spine of the violin.

3/4 size spine

Step 2j



Note:

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



Step 2

Build spine of the violin.

3/4 size spine

Note:

3/4 size spine is done, please skip to page 39 for step 3

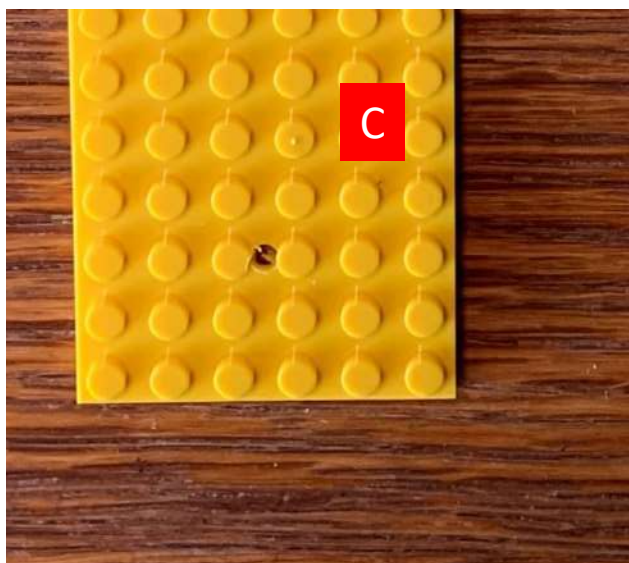
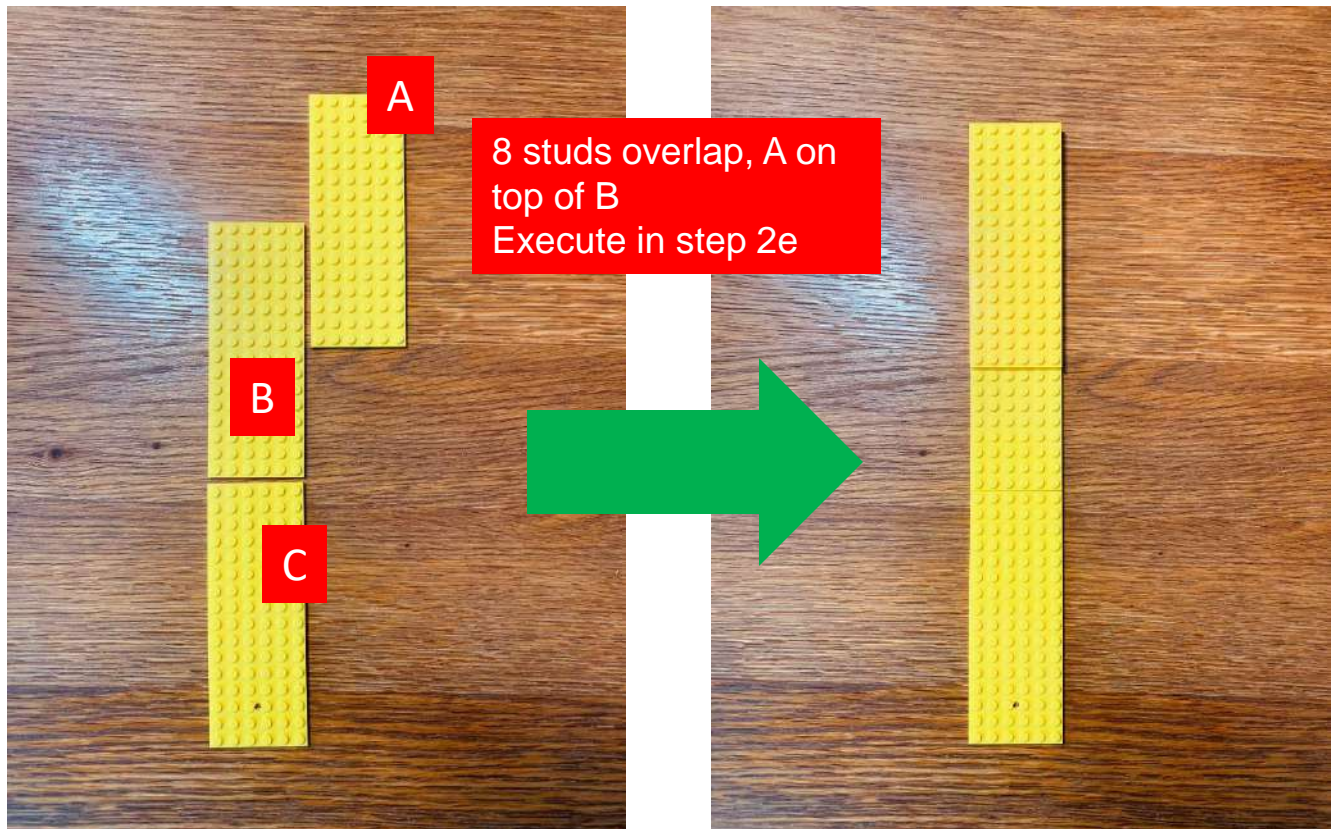


Step 2

Build spine of the violin.

1/2 size spine

Step 2a – lay out base of the back plate



Note:

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

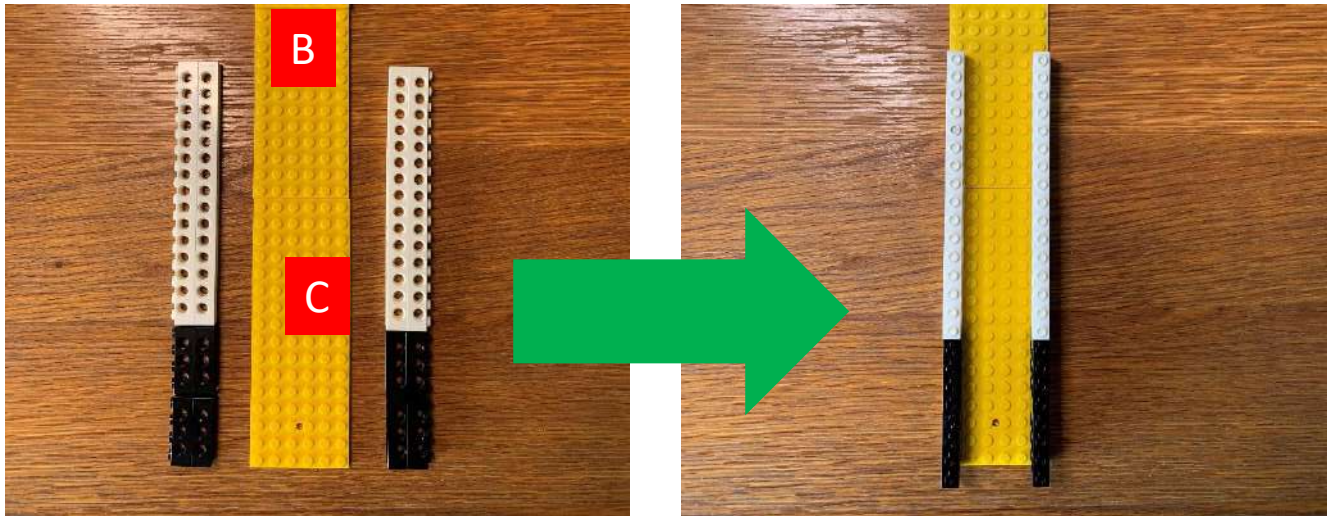


Step 2

Build spine of the violin.

1/2 size spine

Step 2b – connect B and C

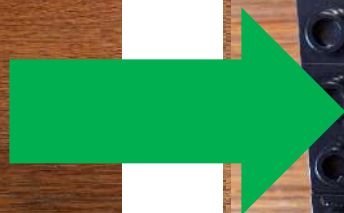
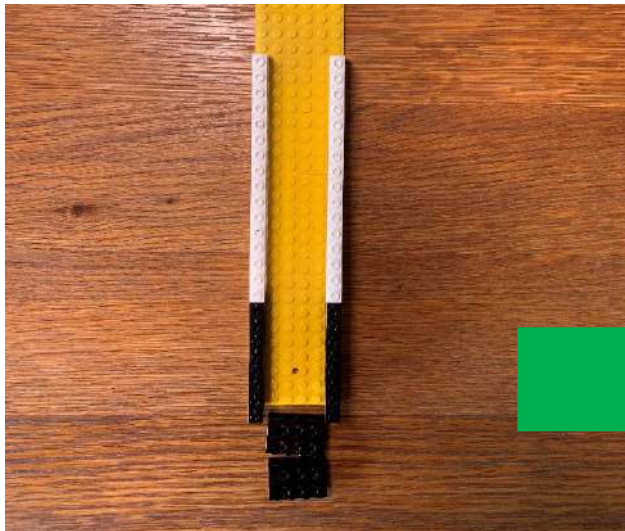


Step 2

Build spine of the violin.

1/2 size spine

Step 2c

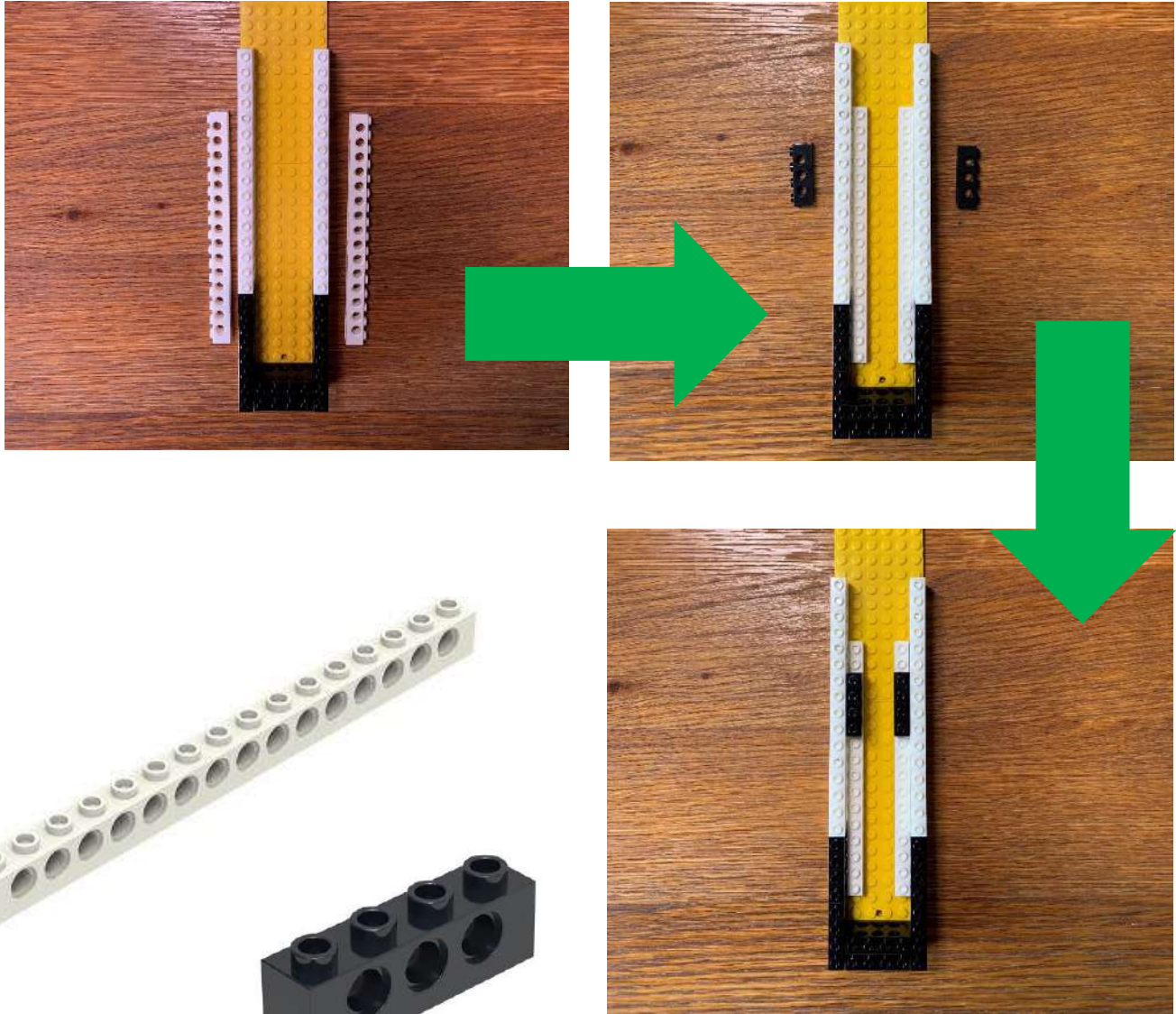


Step 2

Build spine of the violin.

1/2 size spine

Step 2d

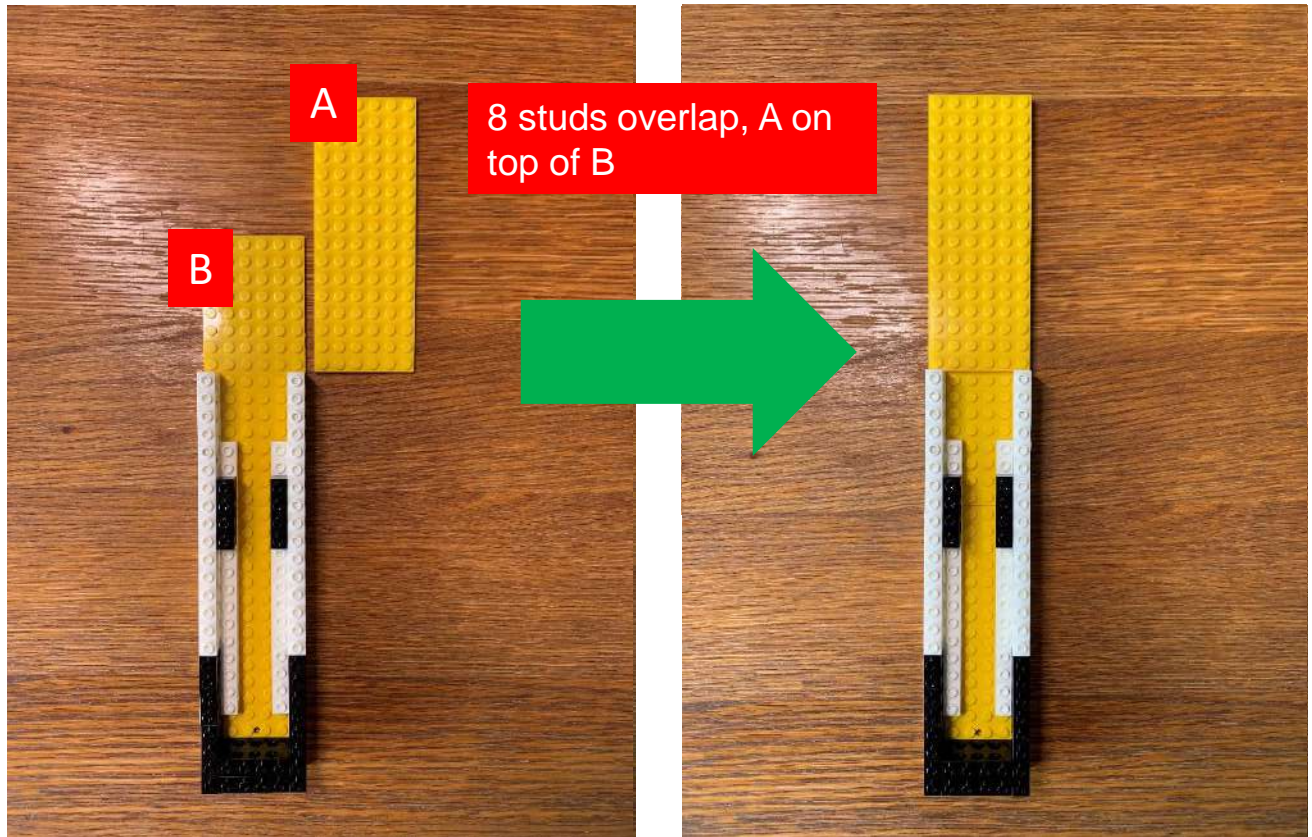


Step 2

Build spine of the violin.

1/2 size spine

Step 2e

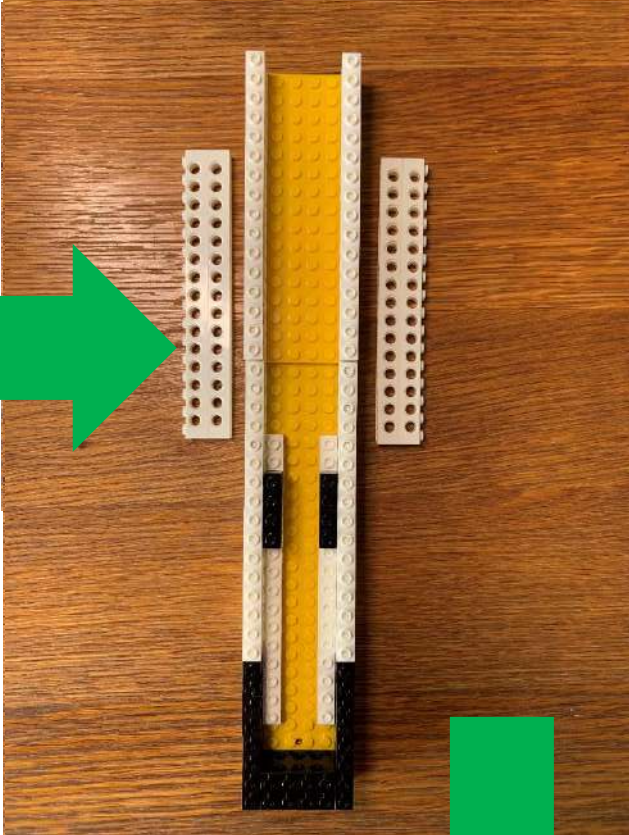
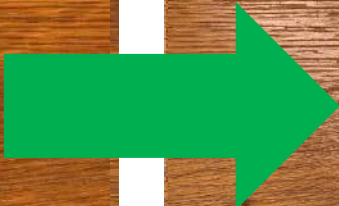
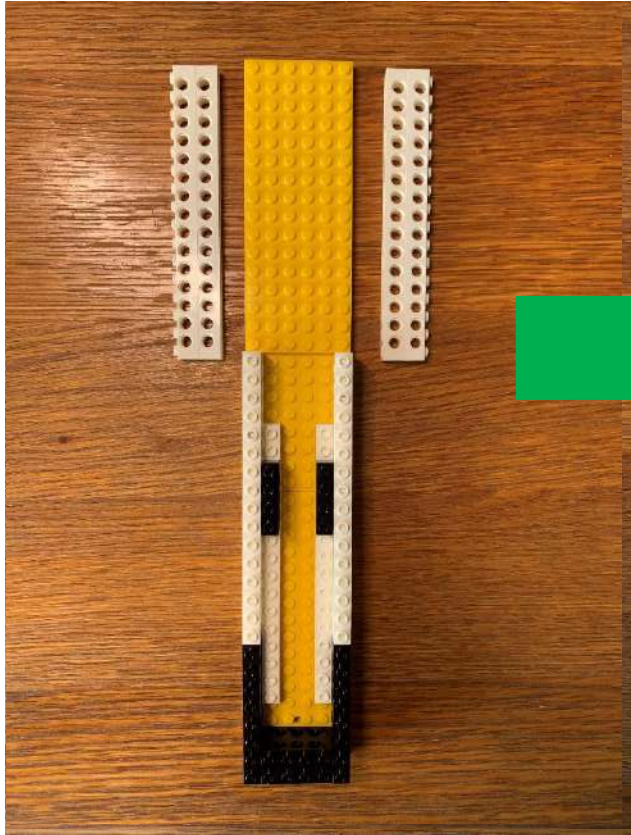


Step 2

Build spine of the violin.

1/2 size spine

Step 2f

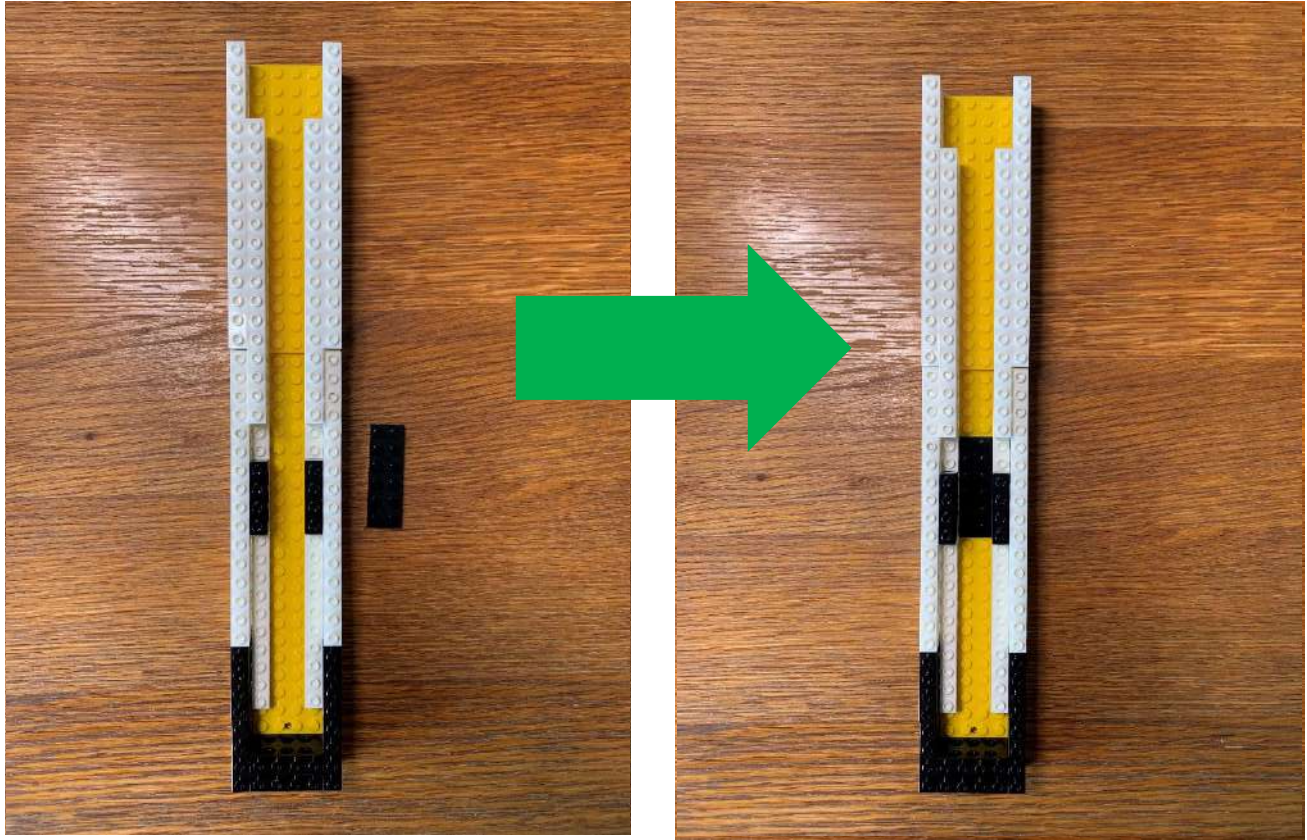


Step 2

Build spine of the violin.

1/2 size spine

Step 2g

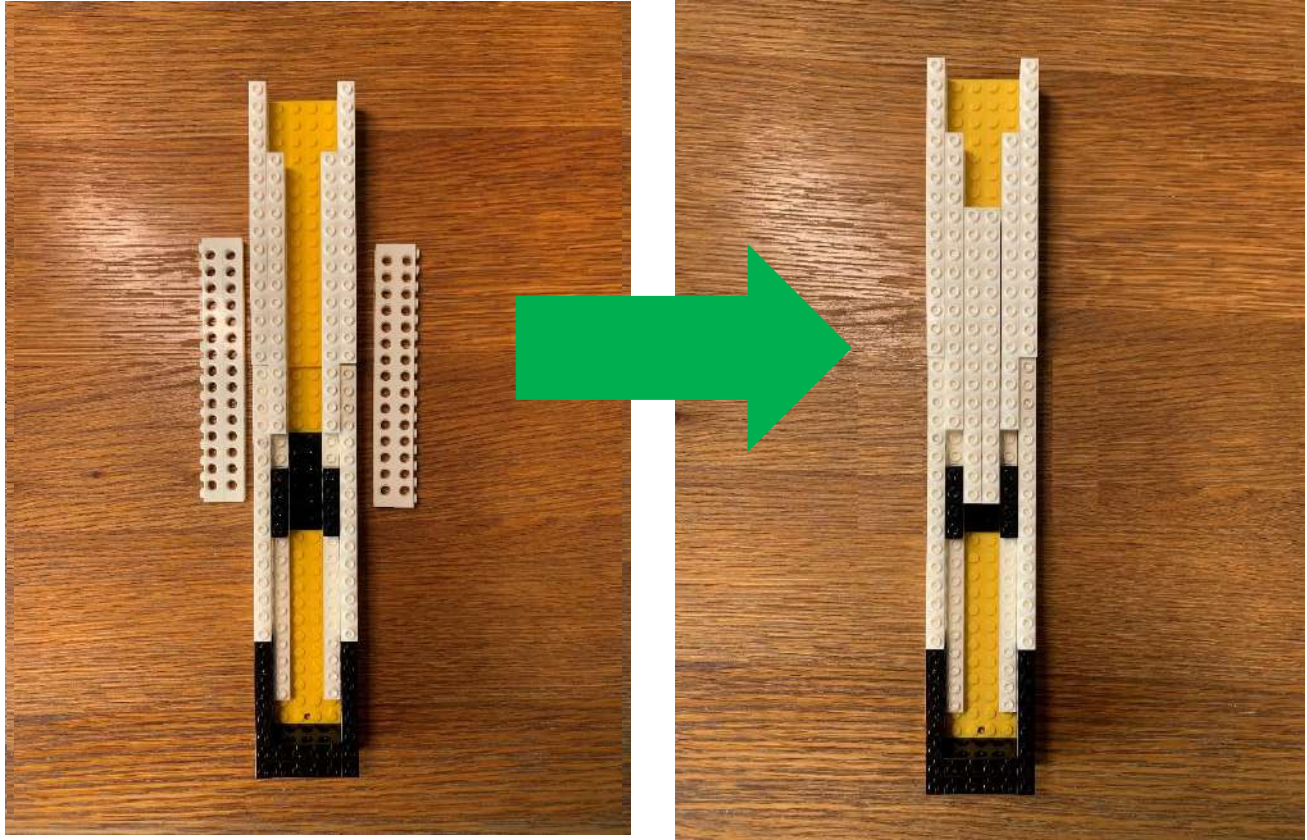


Step 2

Build spine of the violin.

1/2 size spine

Step 2h

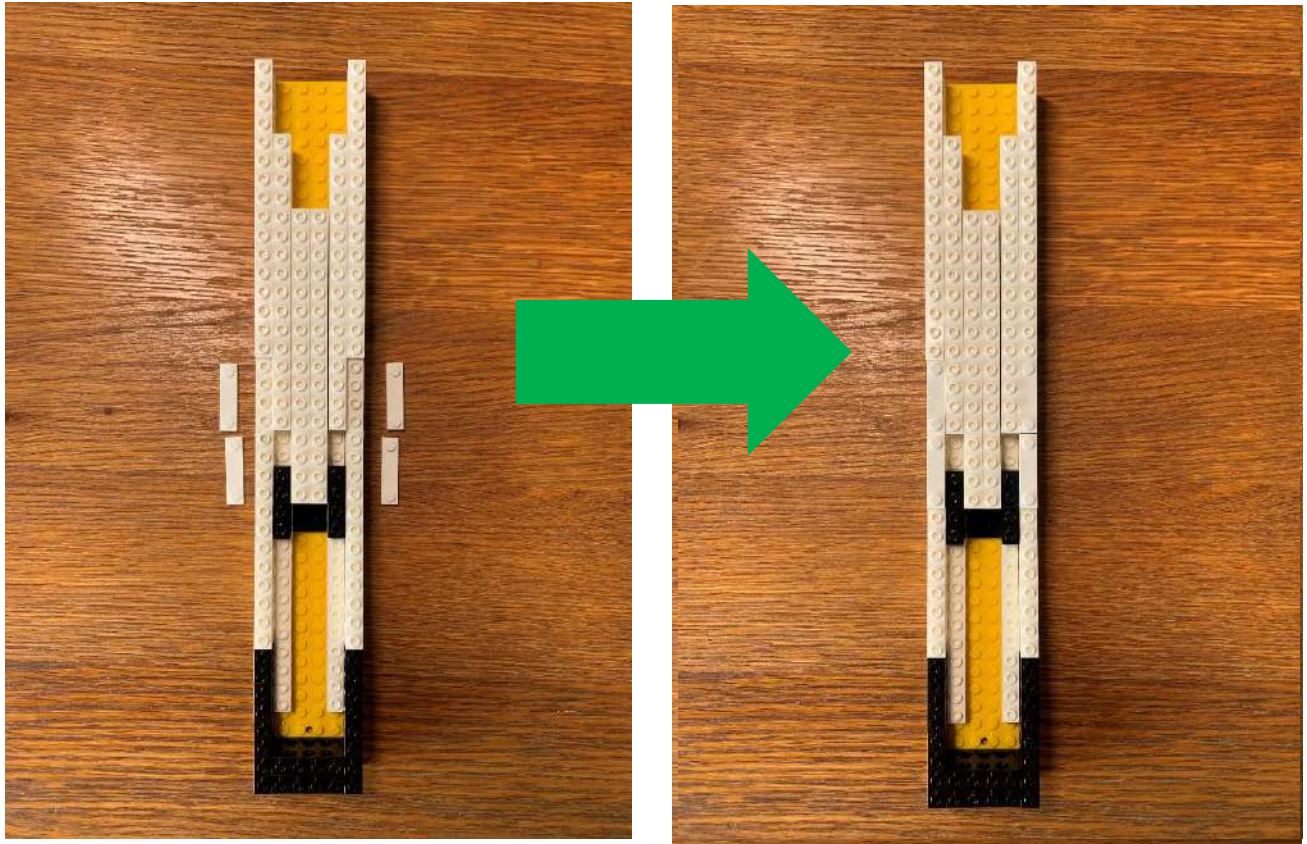


Step 2

Build spine of the violin.

1/2 size spine

Step 2i

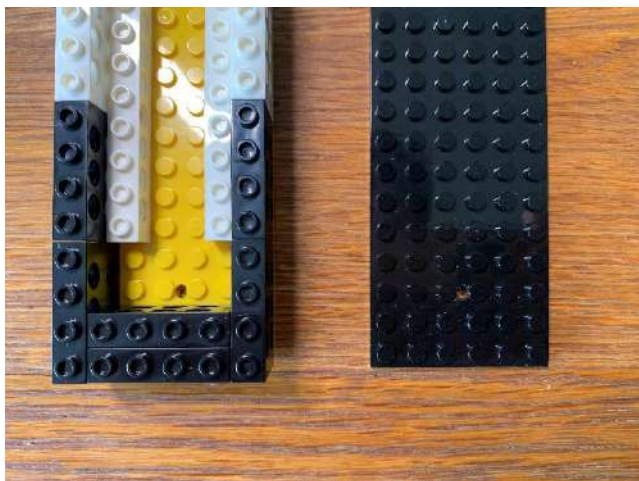
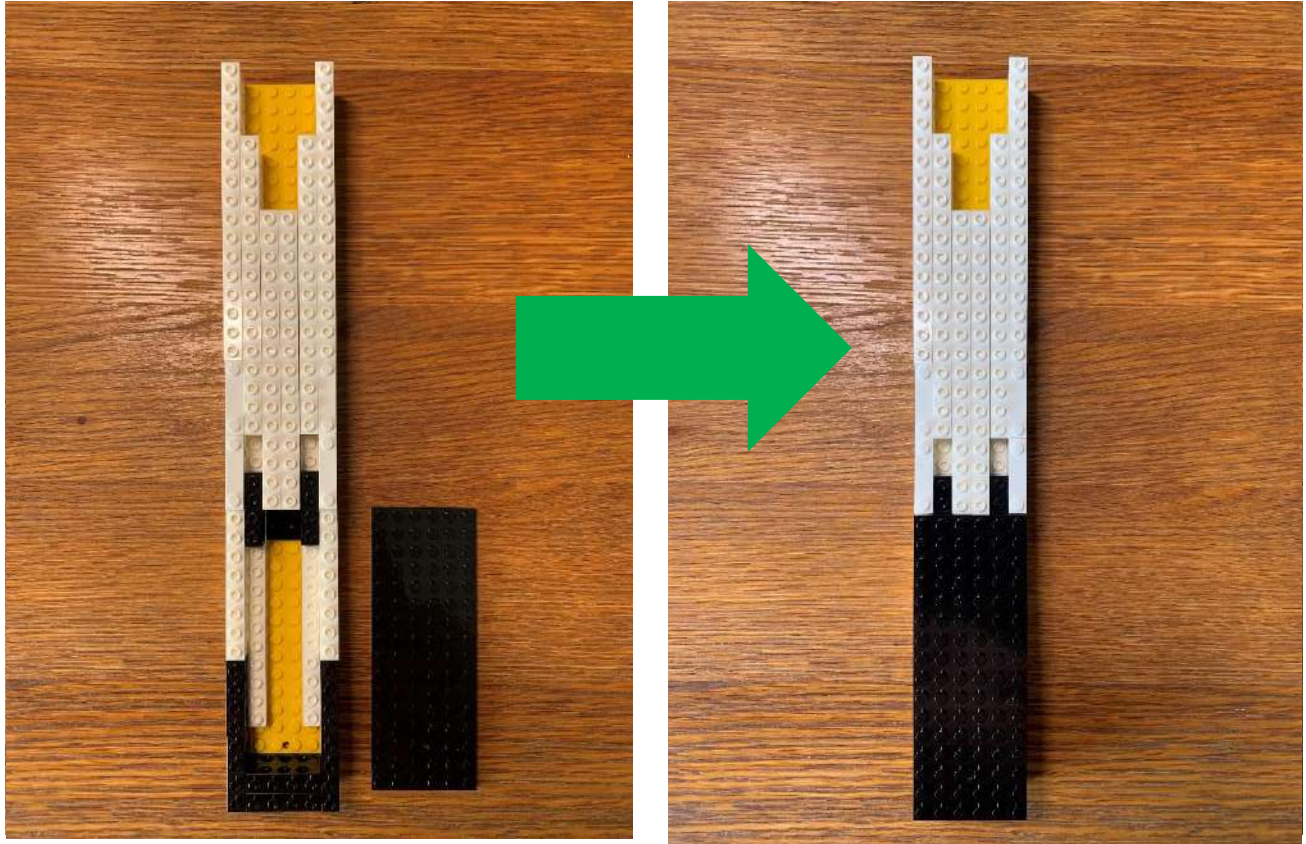


Step 2

Build spine of the violin.

1/2 size spine

Step 2j



Note:

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



Step 2

Build spine of the violin.

1/2 size spine

Note:

1/2 size spine is done, please go to page 39 for step 3

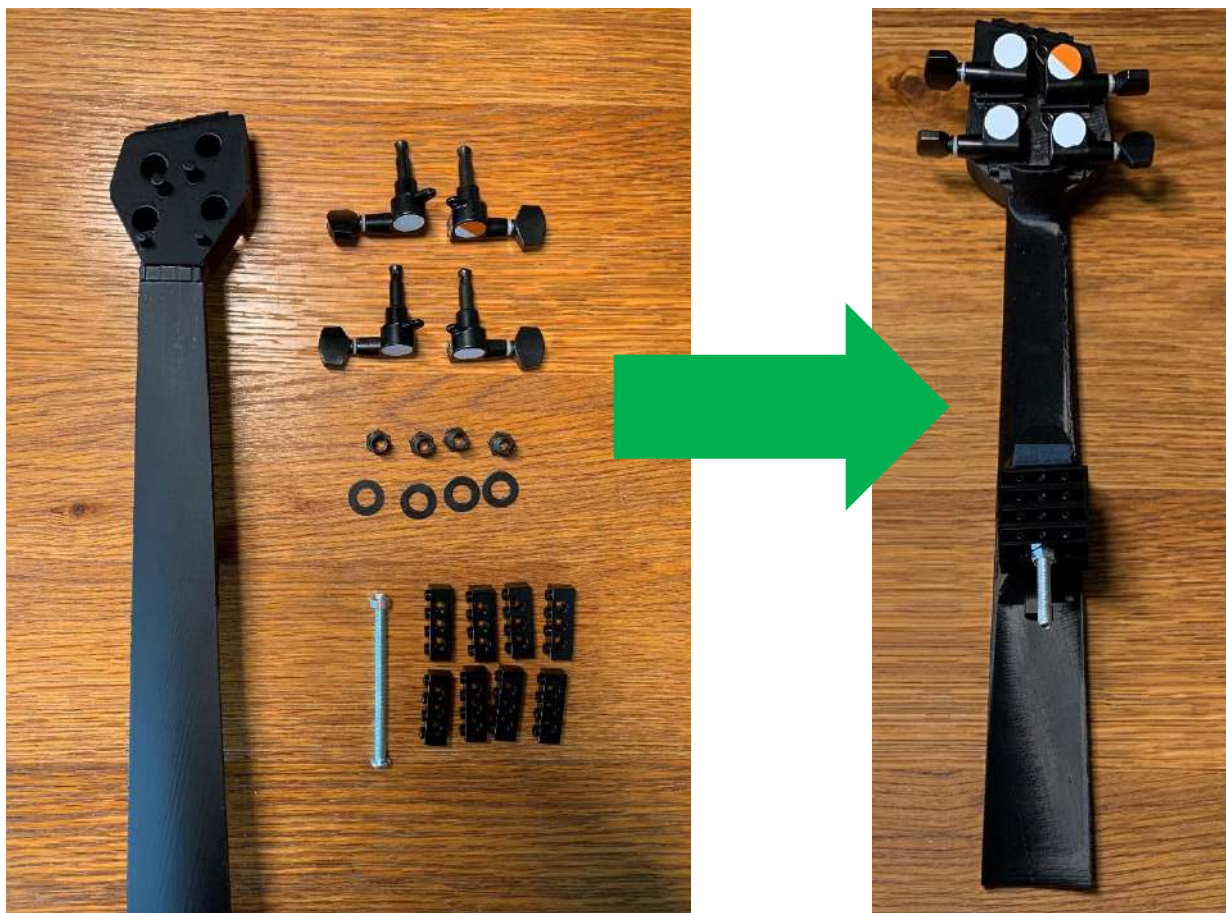


Step 3

Build neck and tuning pegs of the violin.

Note:

In some packages, you may find the neck and tuning pegs already integrated. In that case, you can skip step 3.



Step 3

Build neck and tuning pegs of the violin.

Step 3a – install pegs

Plug the 4 tuning pegs exactly the same as the image demonstrated below.
Push the peg inwards hard to minimize the gap in between surfaces.



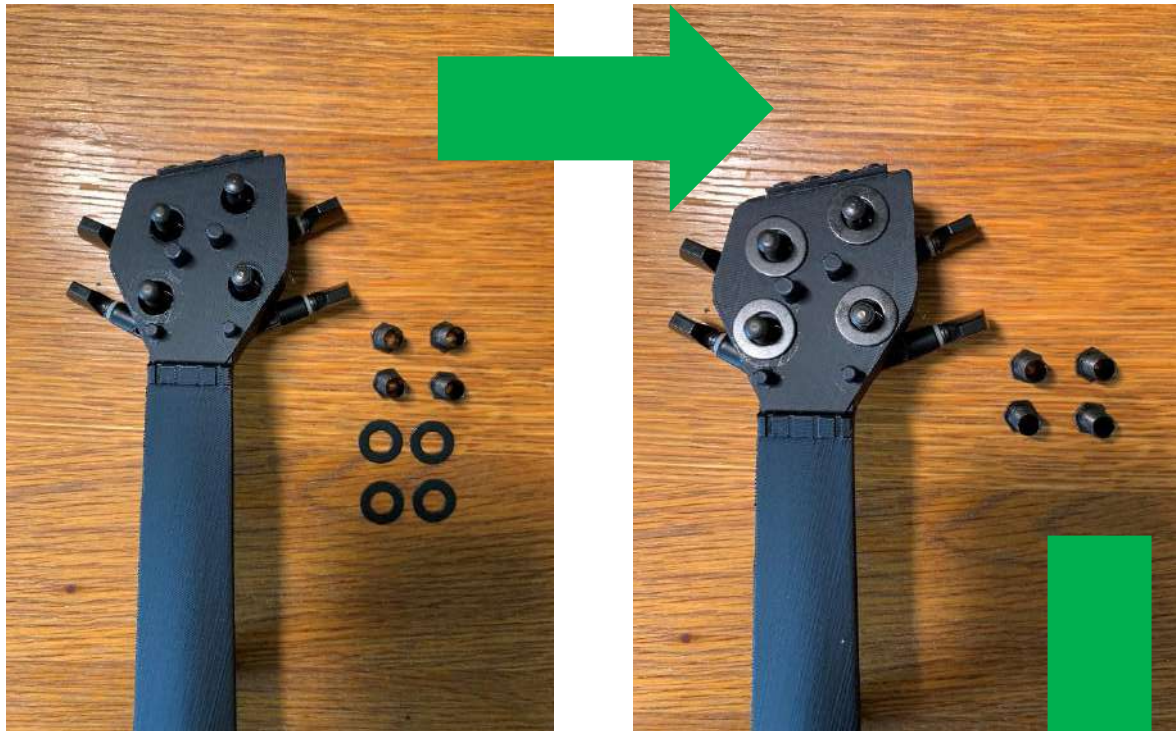
Step 3

Build neck and tuning pegs of the violin.

Step 3b – install pegs

Install washers and nuts.

Tighten the nut.



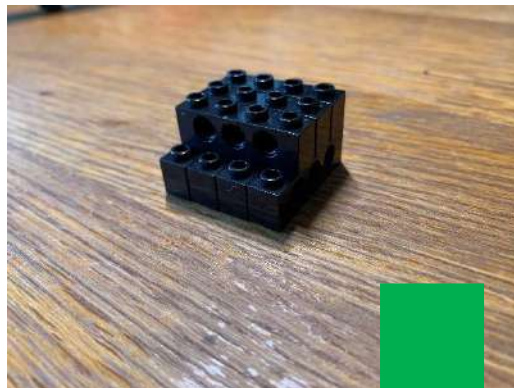
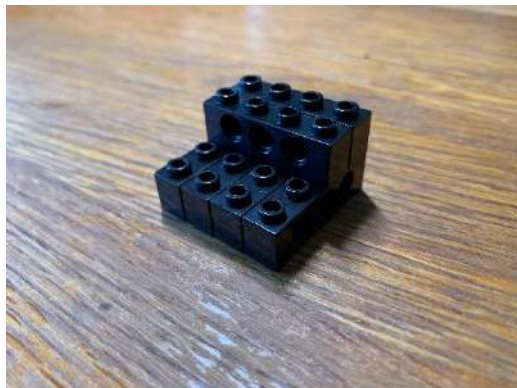
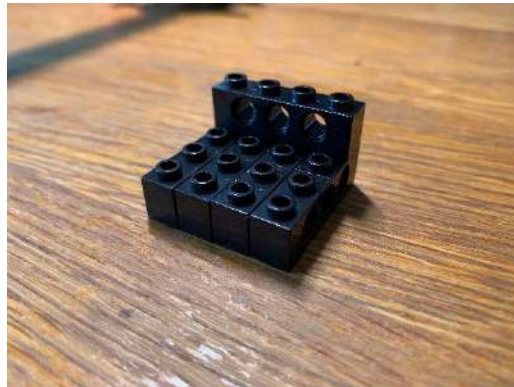
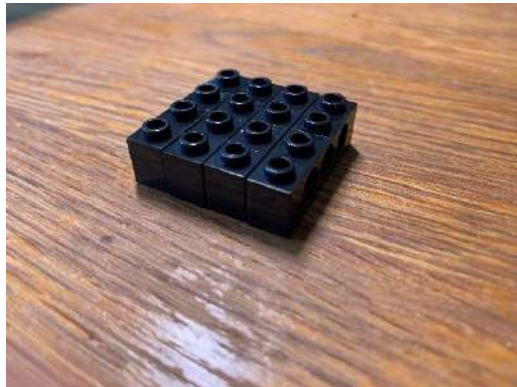
Note:

This tool
maybe helpful
when you
tighten the nut.

Step 3

Build neck and tuning pegs of the violin.

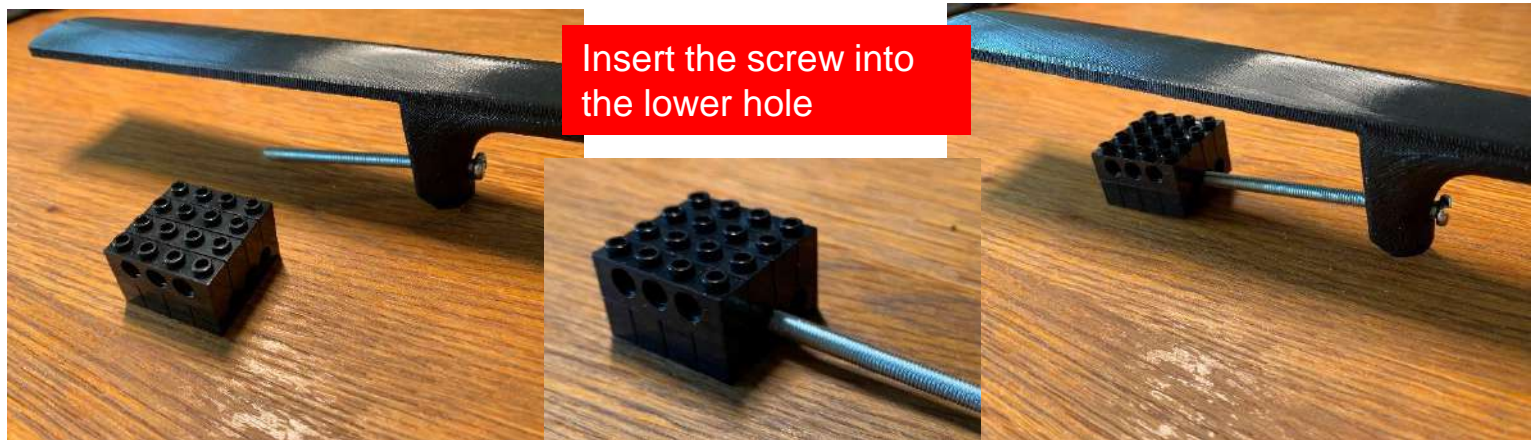
Step 3c – building a square block for attachment



Step 3

Build neck and tuning pegs of the violin.

Step 3d – attach with screw

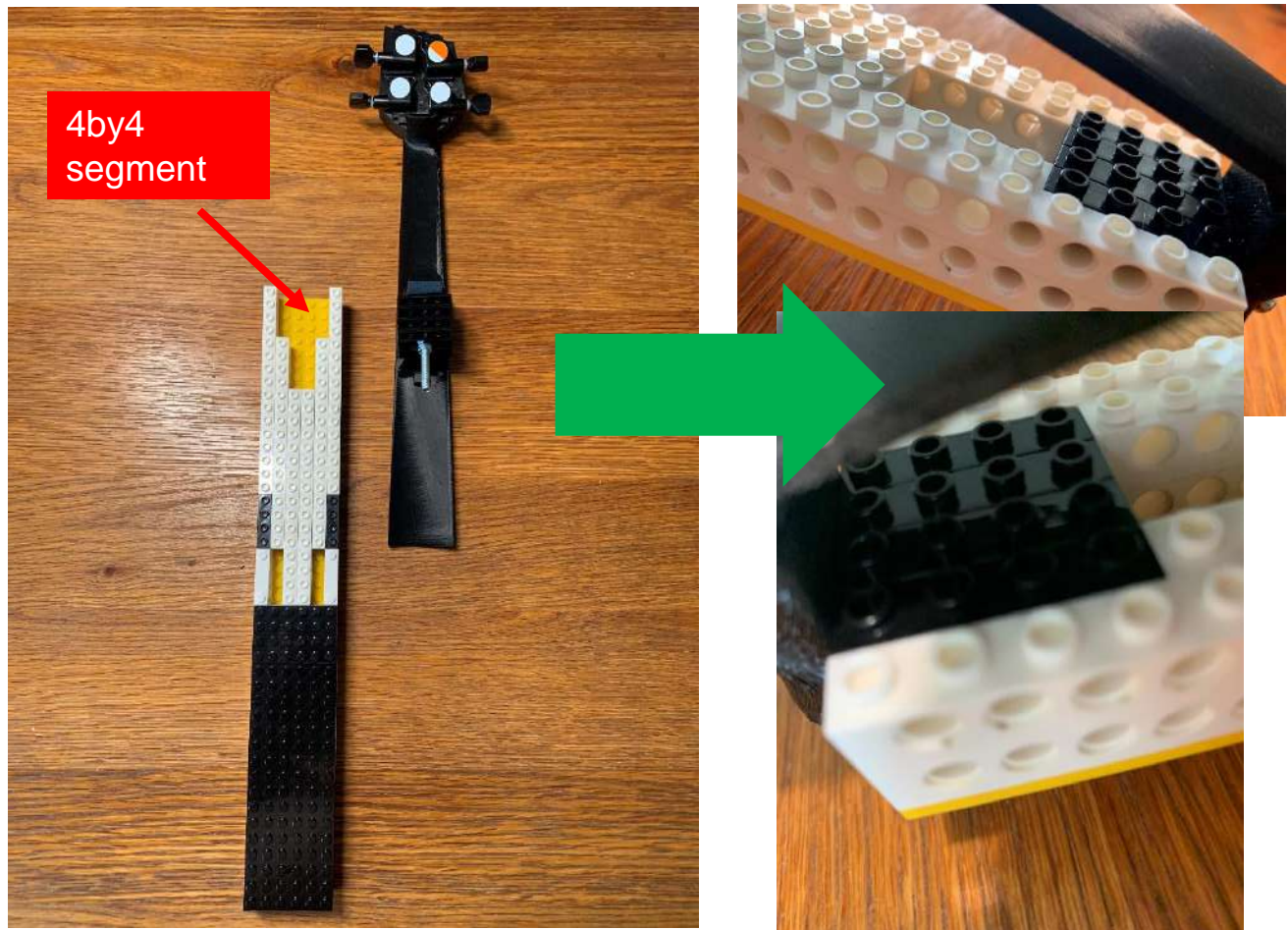


Step 4

Attch violin neck to violin spine

Step 4a

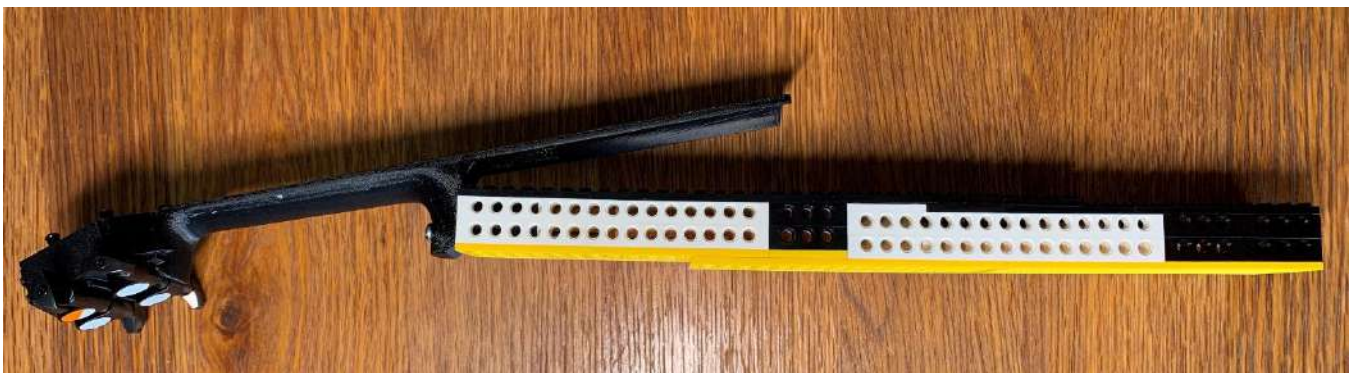
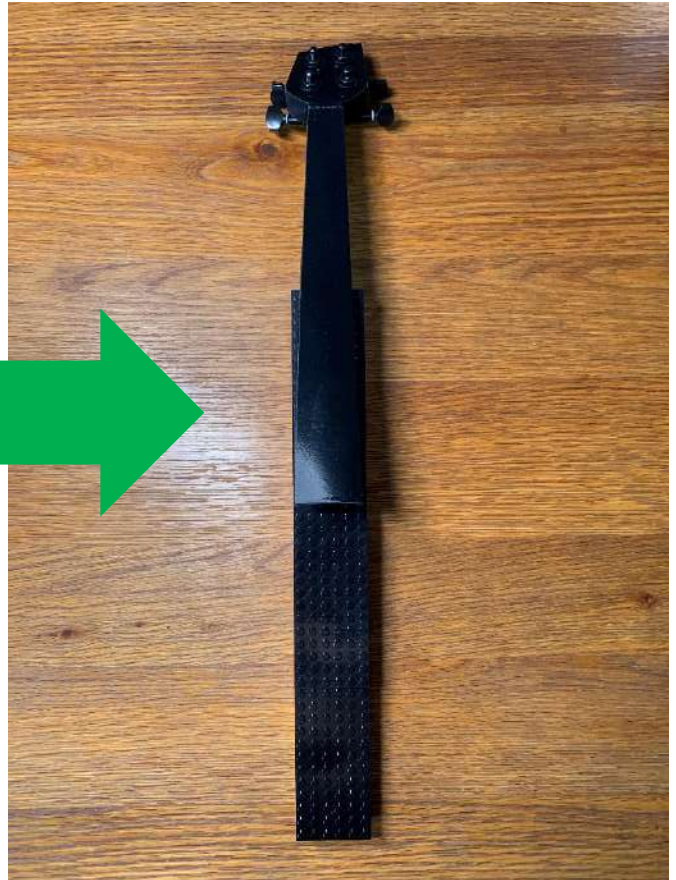
Put the square block of the violin neck into the 4 by 4 segment on top of the violin spine.



Step 4

Attch violin neck to violin spine

Step 4b

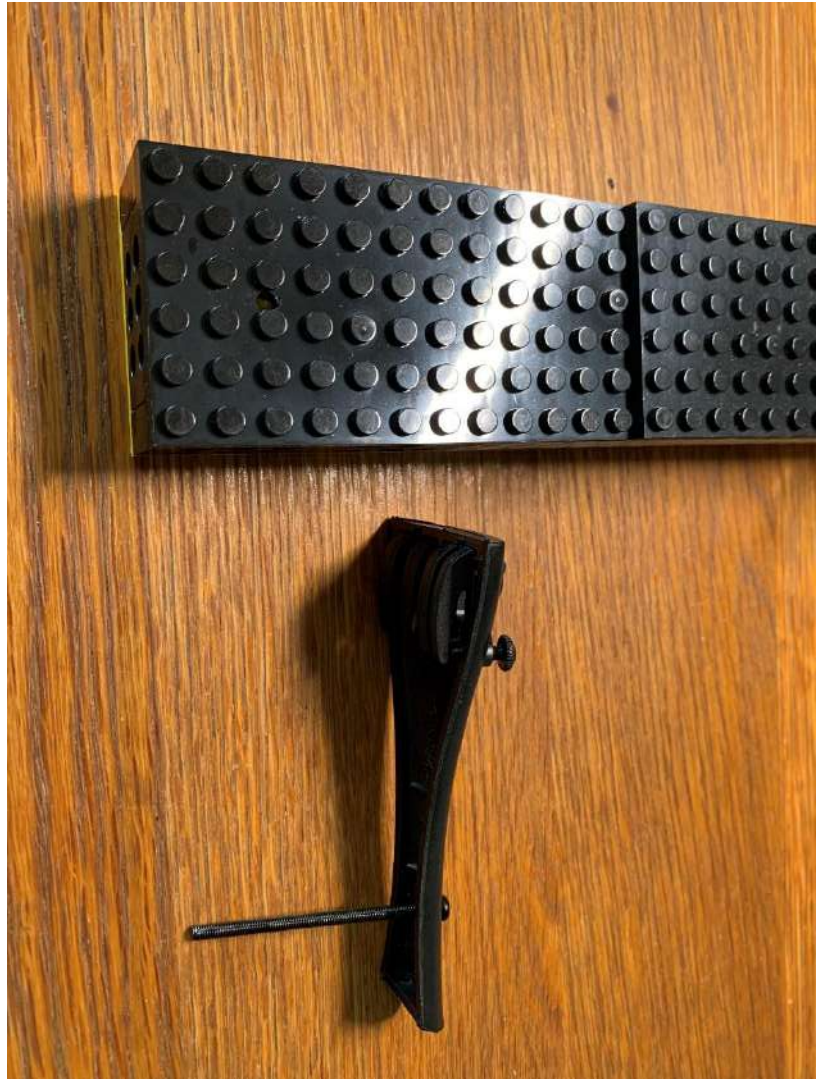


Step 5

Attach tailpiece with violin spine

Step 5a

Put the screw into the hole on tailpiece.



Step 5

Attach tailpiece with violin spine

Step 5b

Put the screw with tailpiece into the hole located at bottom of the violin spine.



Step 5

Attach tailpiece with violin spine

Step 5c

Put the round part through the screw and nut on top of them



Note:

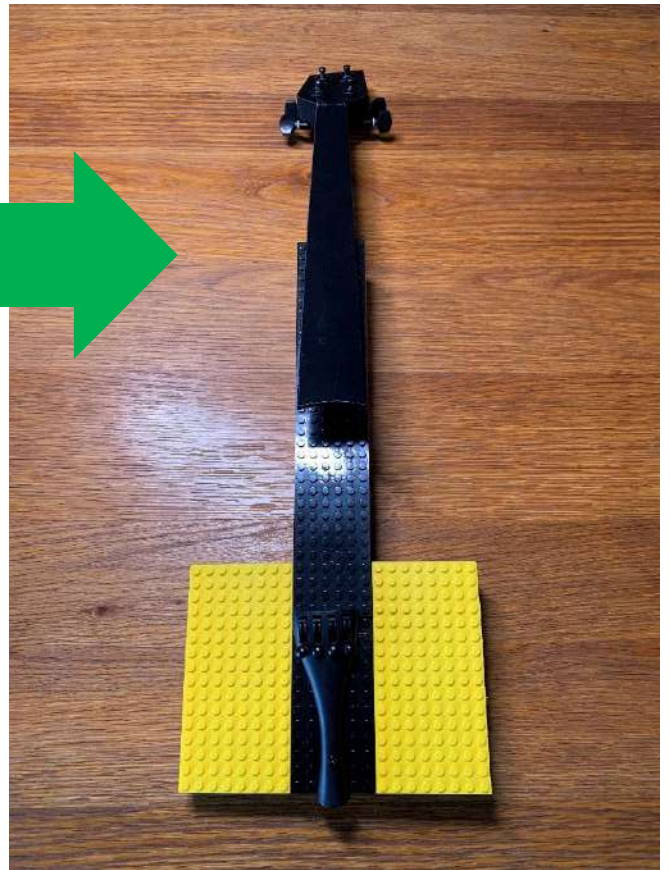
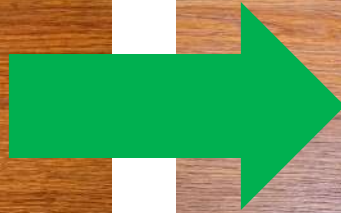
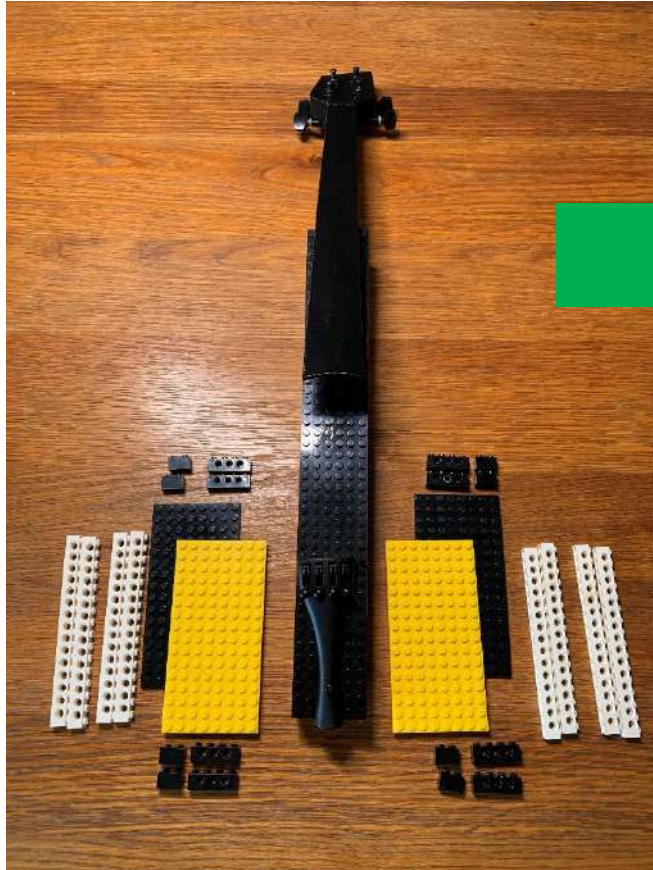
Please leave some space in between tailpiece and top surface.

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



Step 6

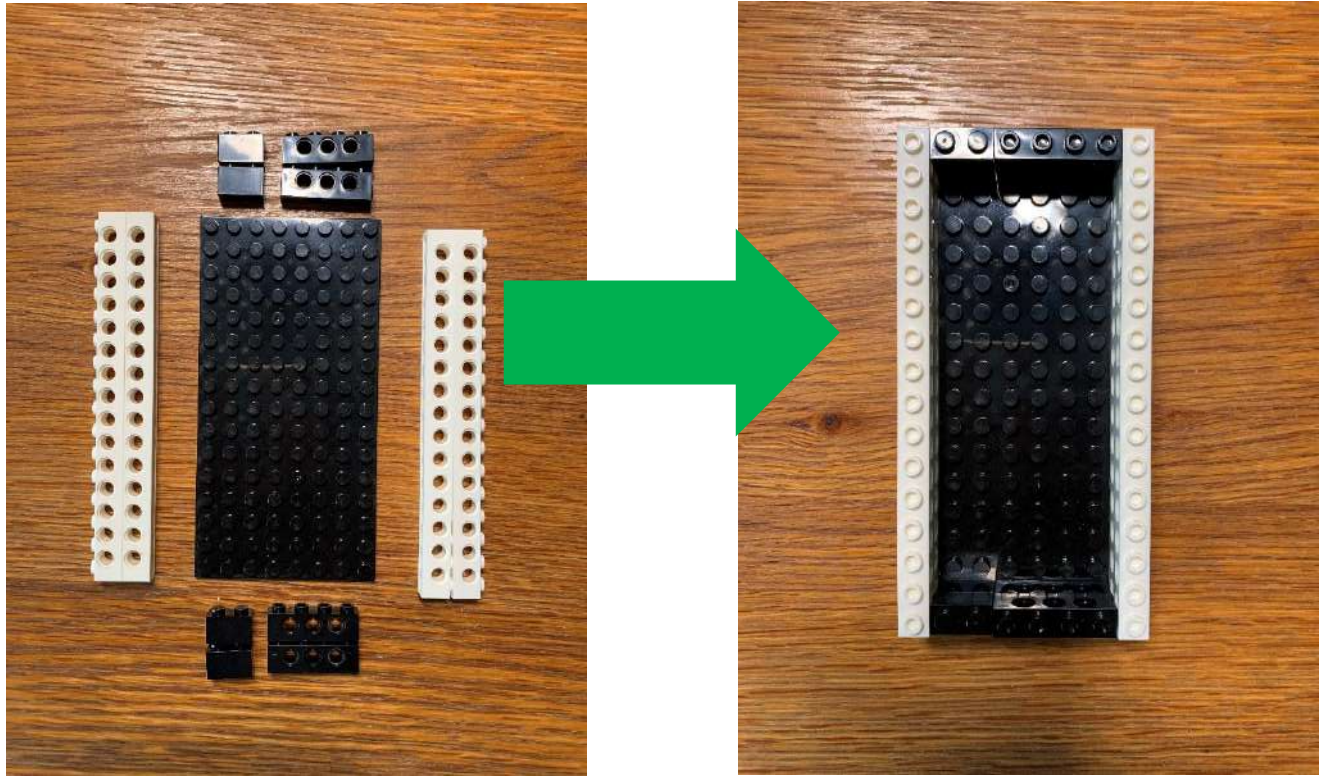
Attach side boxes to violin spine



Step 6

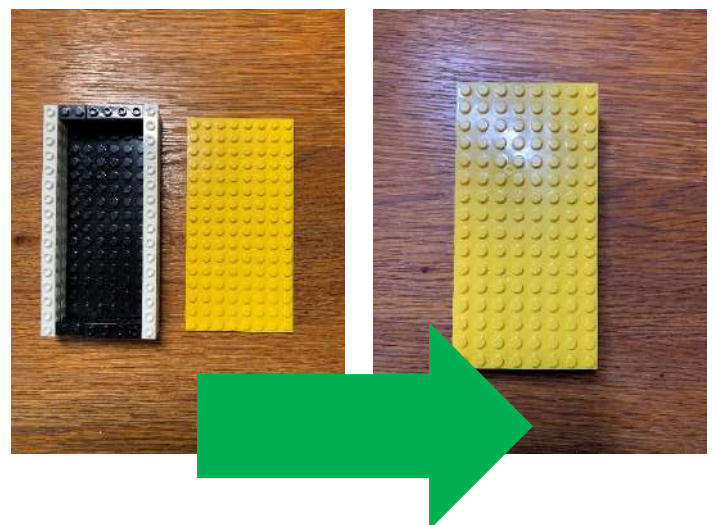
Attach side boxes to violin spine

Step 6a



Note:

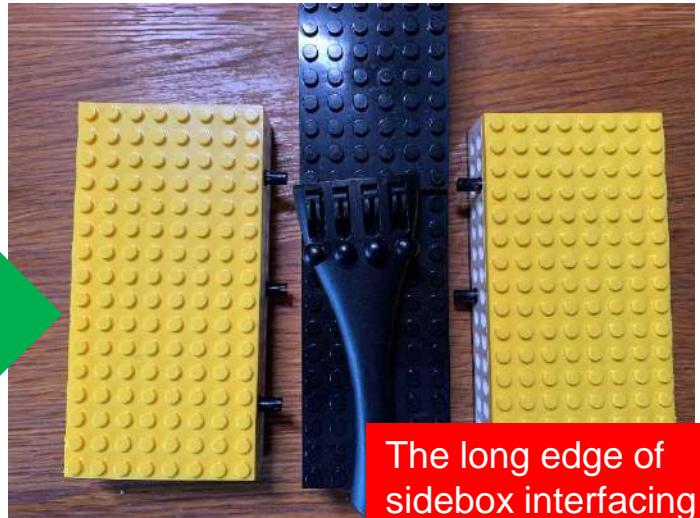
Repeat the same process again to build another side box.



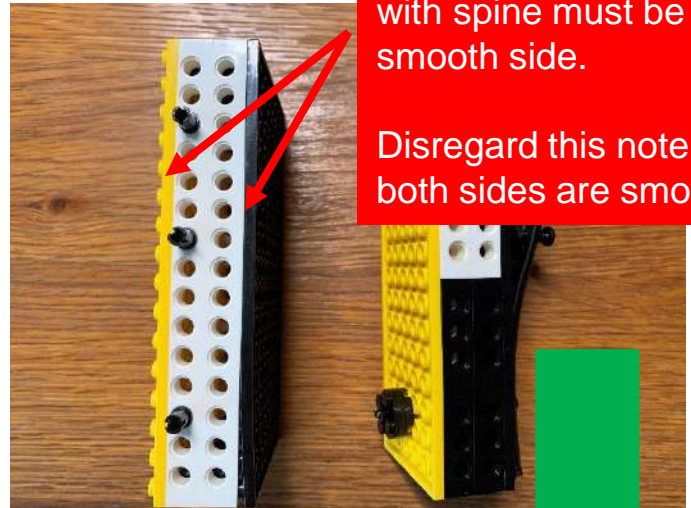
Step 6

Attach side boxes to violin spine

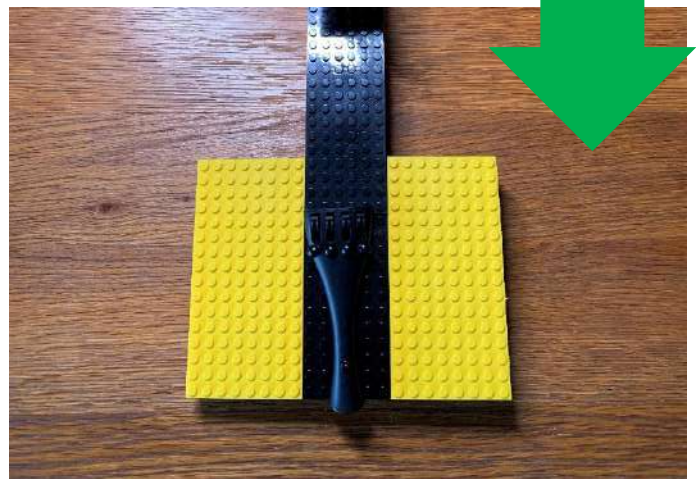
Step 6b – attach side box



The long edge of sidebox interfacing with spine must be the smooth side.



Disregard this note if both sides are smooth



Note:



Put three sticks into the holes on each side of the side box, and then plug the box into the spine. Adjust position of the stick in case it can not be pushed in.

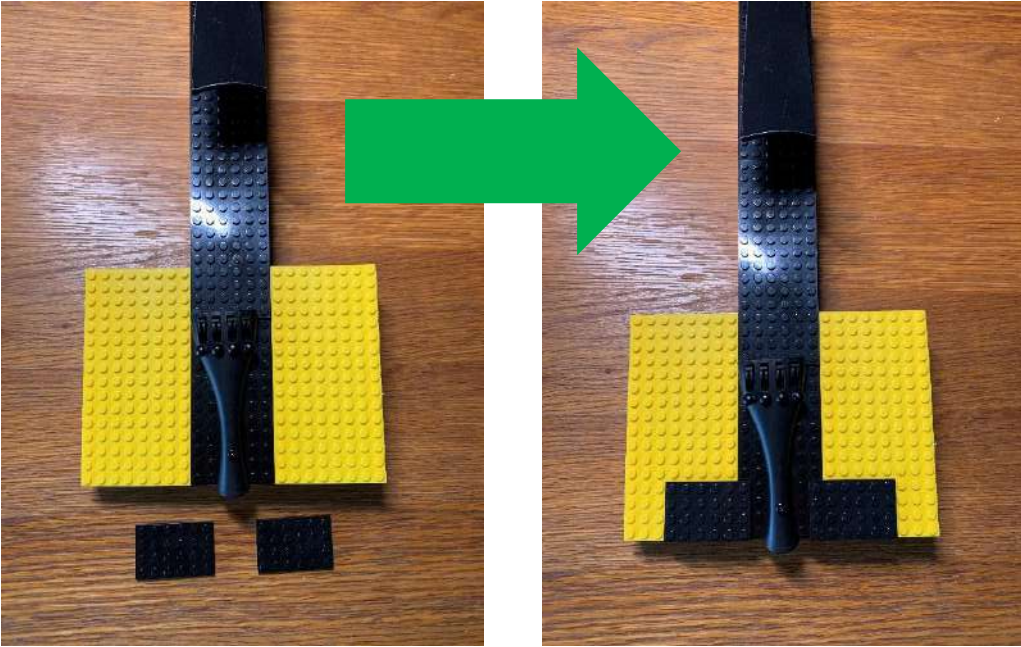
Make sure the bottom edge is aligned to the spine.



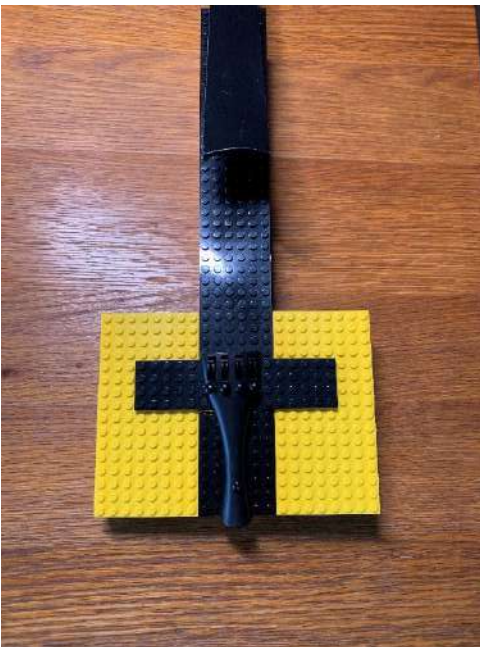
Step 7

Lock side boxes to violin spine

Step 7a – front lock option 1



option 2



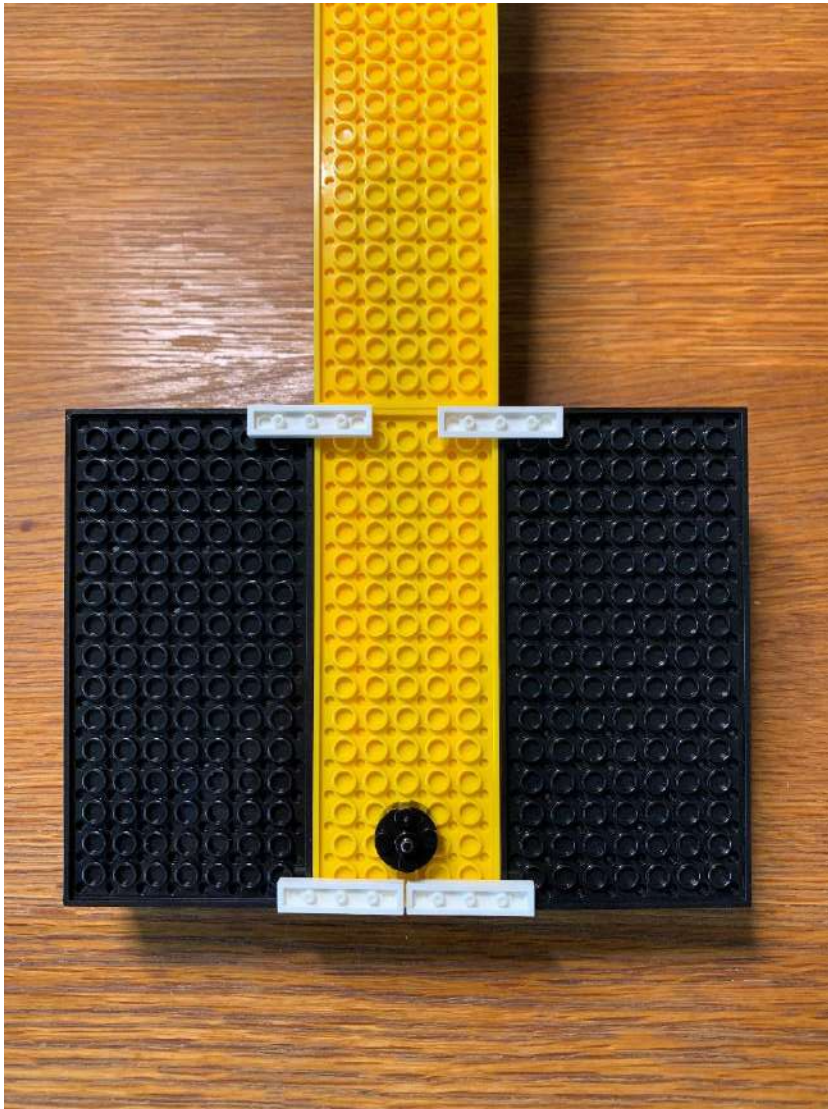
option 3 – use other color plate to lock



Step 7

Lock side boxes to violin spine

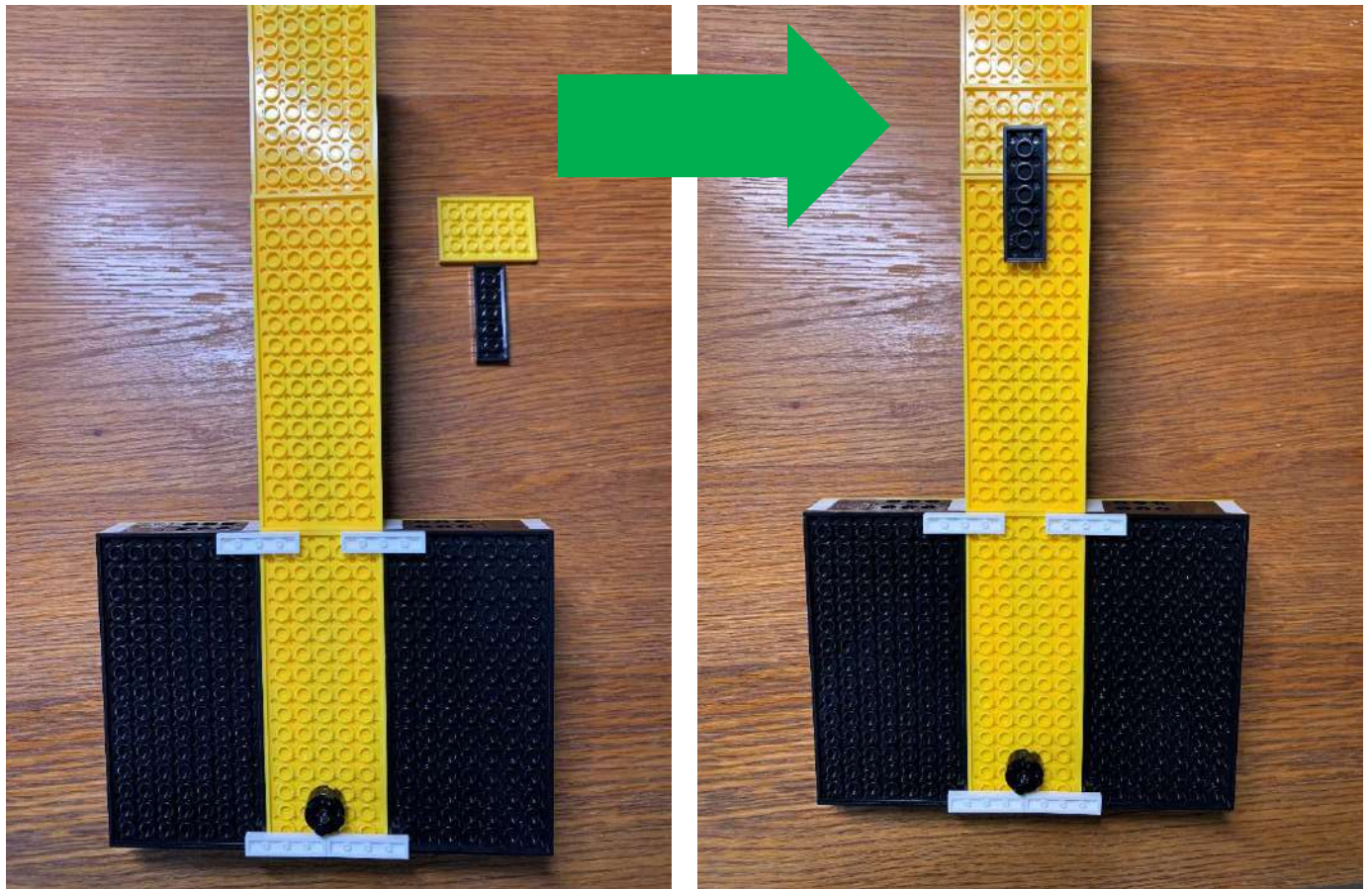
Step 7b – back lock



Step 7

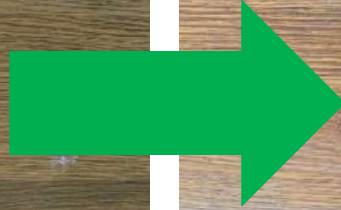
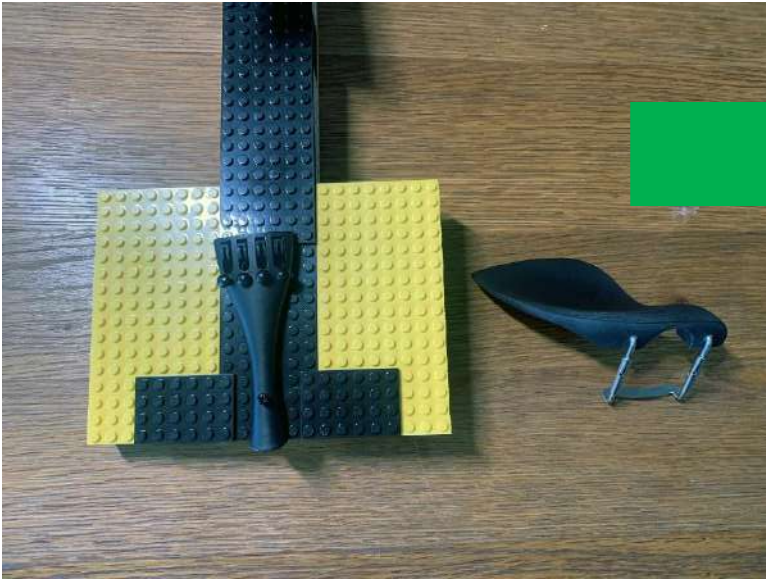
Lock side boxes to violin spine

Step 7b – back lock



Step 8

Attach chinrest to violin body

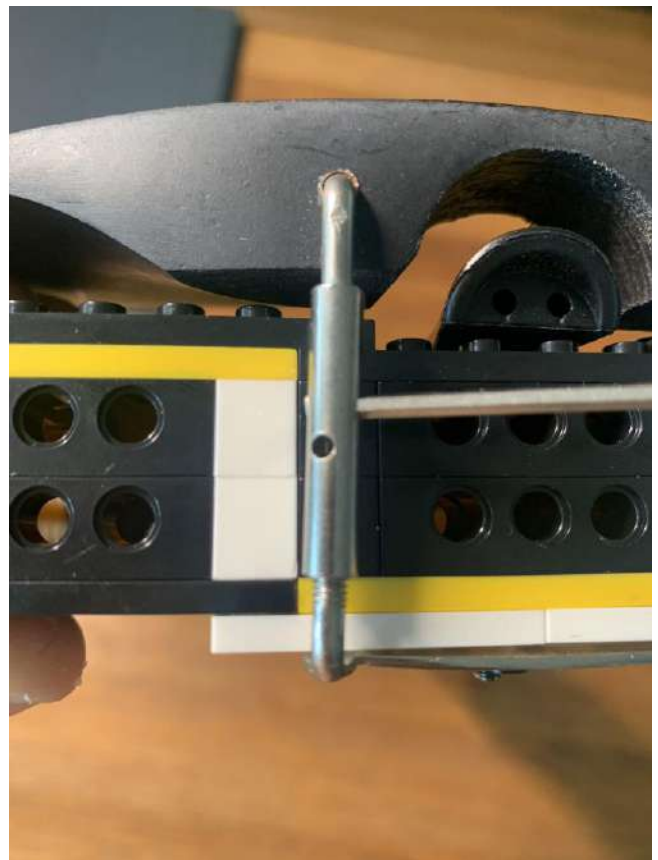
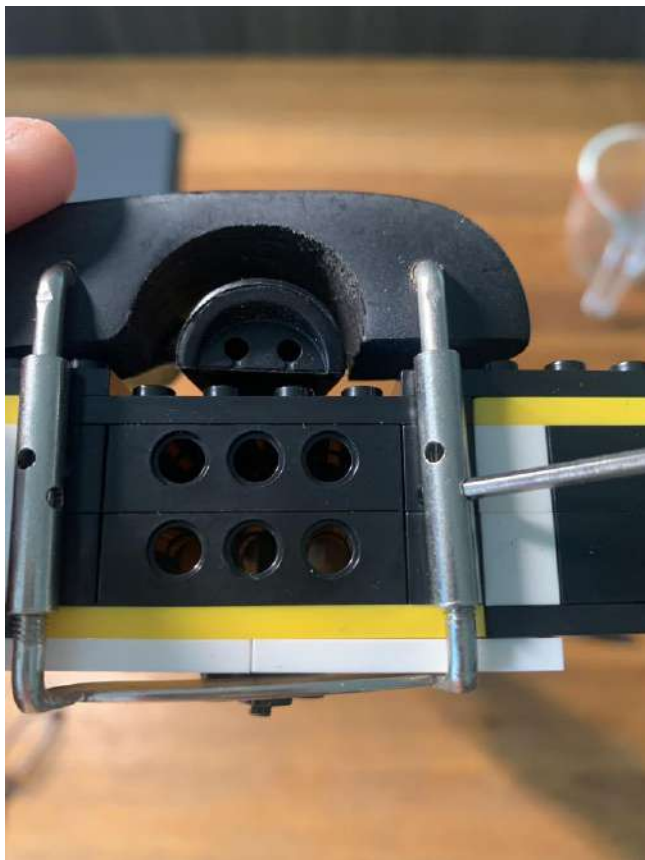


Step 8

Attach chinrest to violin body

Step 8a

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.

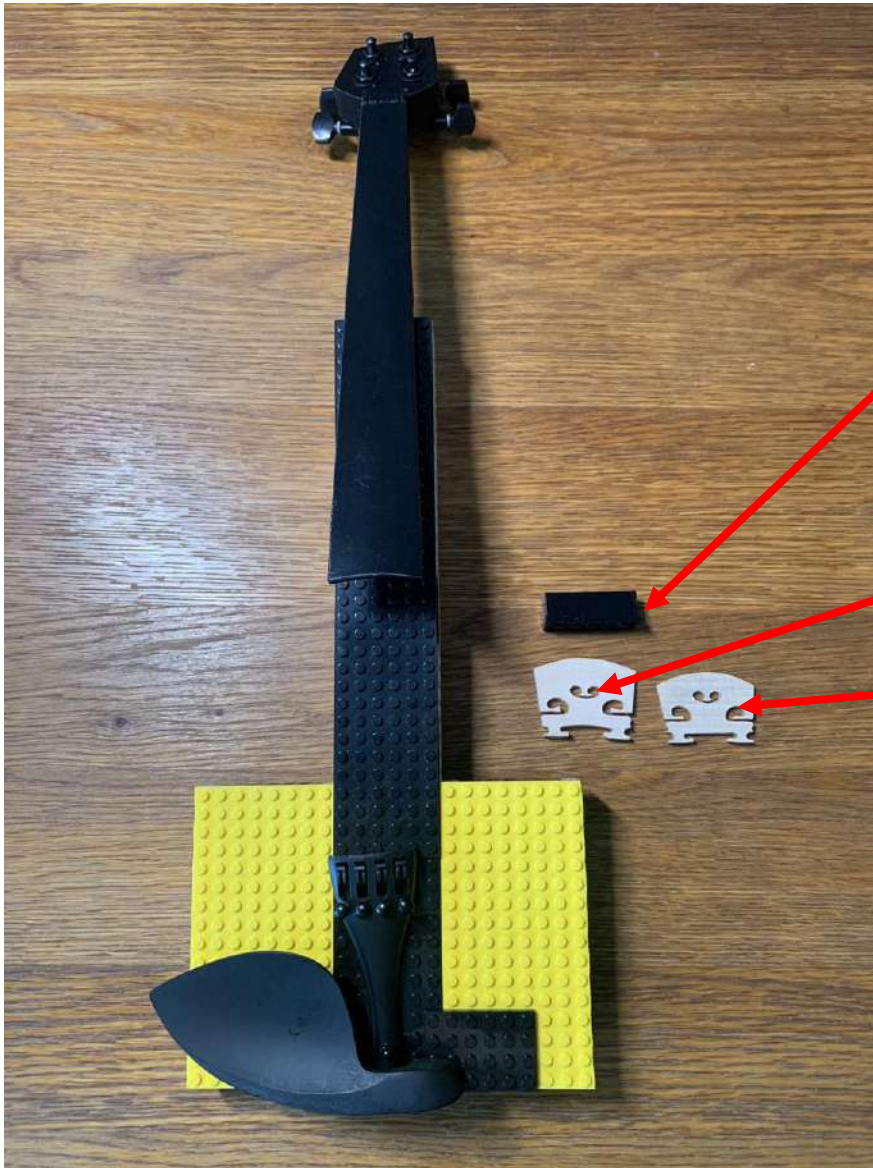


Step 9 – No soundbox

Attach bridge/soundbox to violin body

Note:

In case your package includes soundbox, please go to page 60



Bridge holder

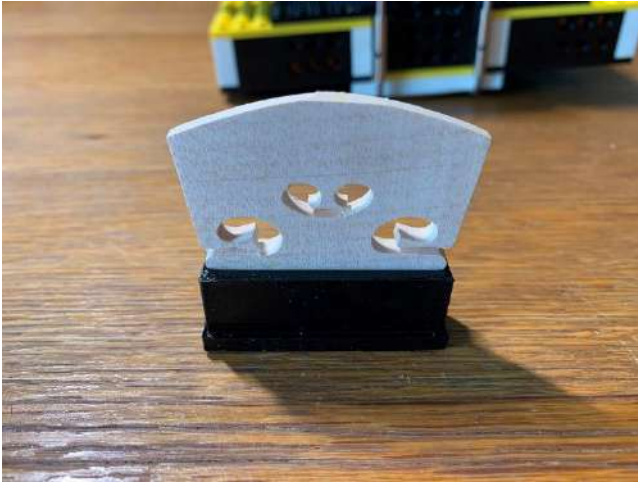
Two bridges are included, please use the larger one by default



Step 9 – No soundbox

Attach bridge/soundbox to violin body

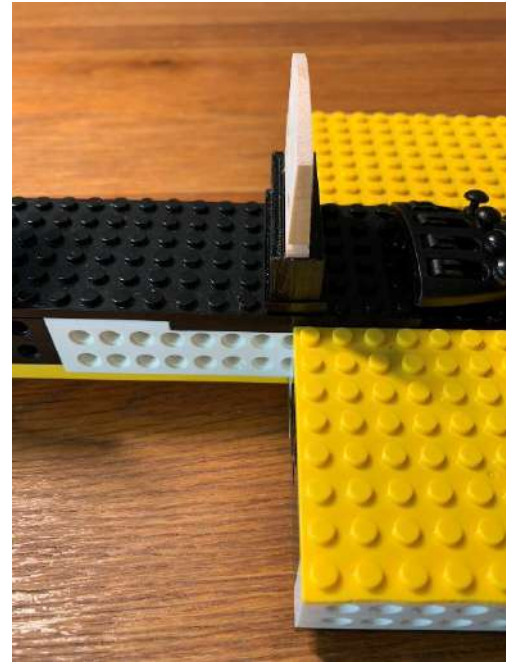
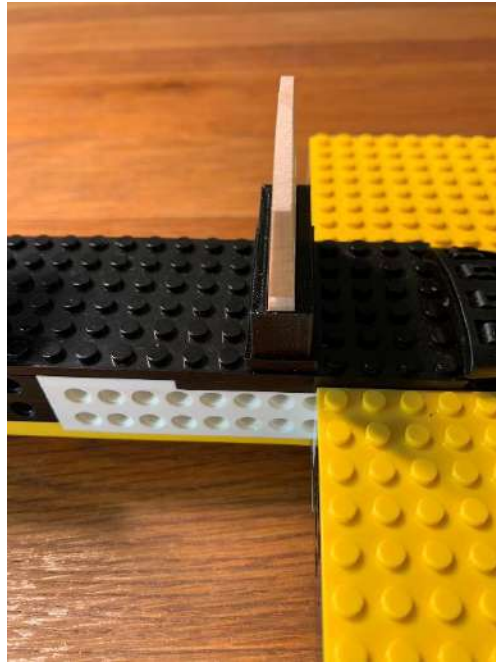
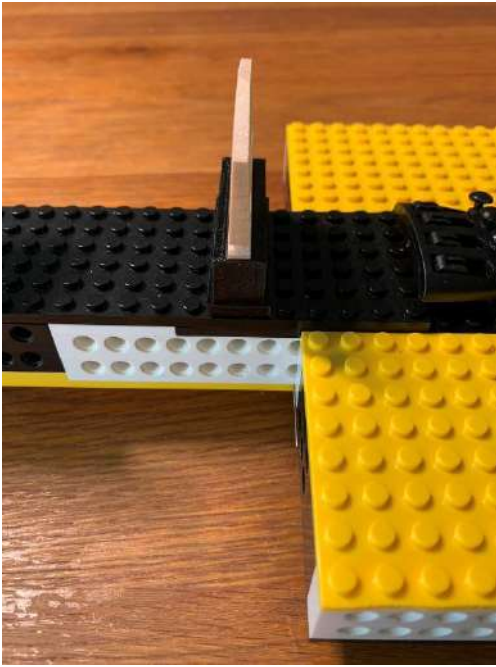
Place bridge into the bridge holder and put it on top of the spine



Step 9 – No soundbox

Attach bridge/soundbox to violin body

Position of violin bridge varies from sizes



4/4 size

1 stud to the
Yellow edge

3/4 size

0 stud to the
Yellow edge

1/2 size

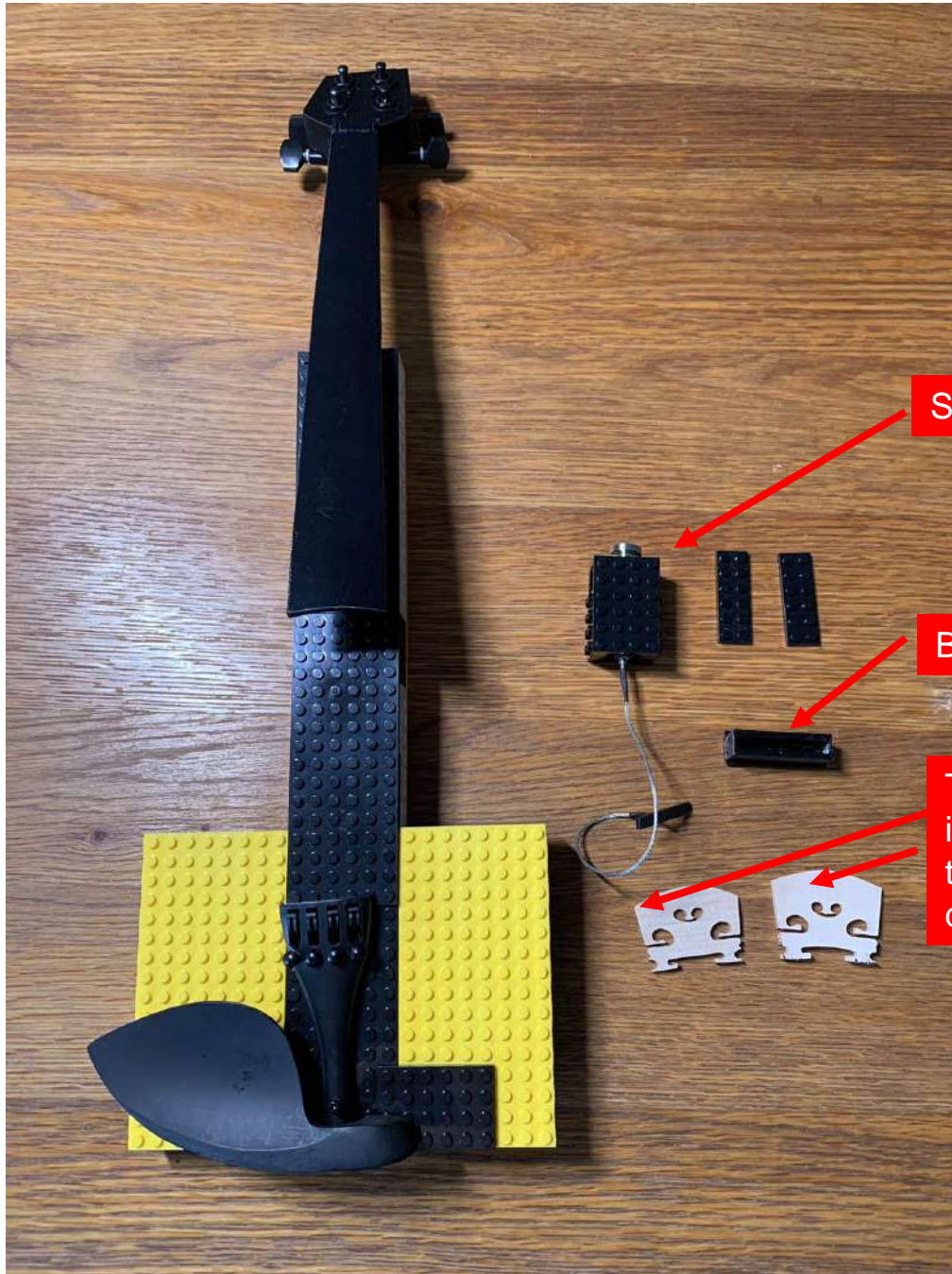
-1 stud to the
Yellow edge



Step 9 – With soundbox

Attach bridge/soundbox to violin body

Install bridge with soundbox



Soundbox

Bridge holder

Two bridges are included, please use the larger one by default

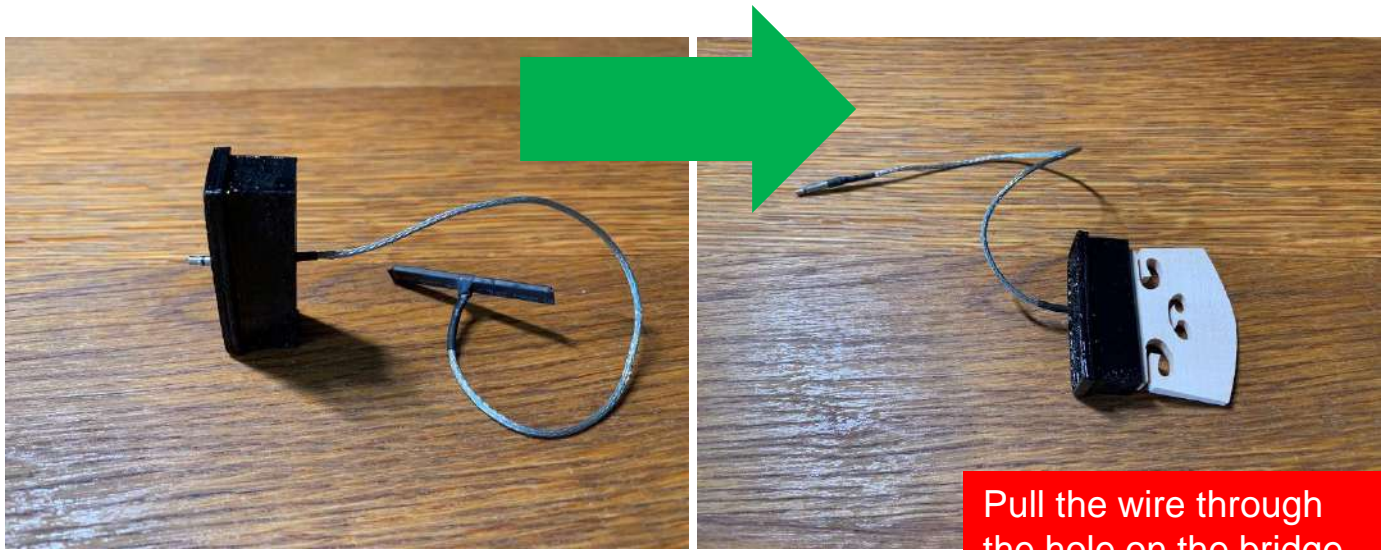
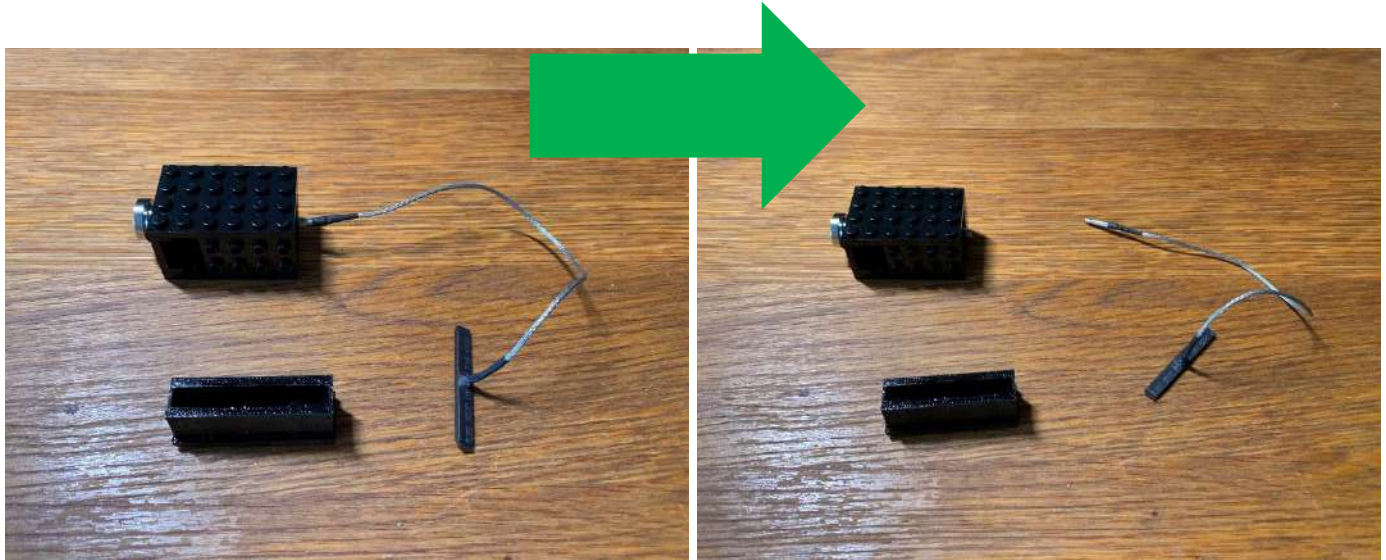


0-3

Step 9

Attach bridge/soundbox to violin body

Step 9a



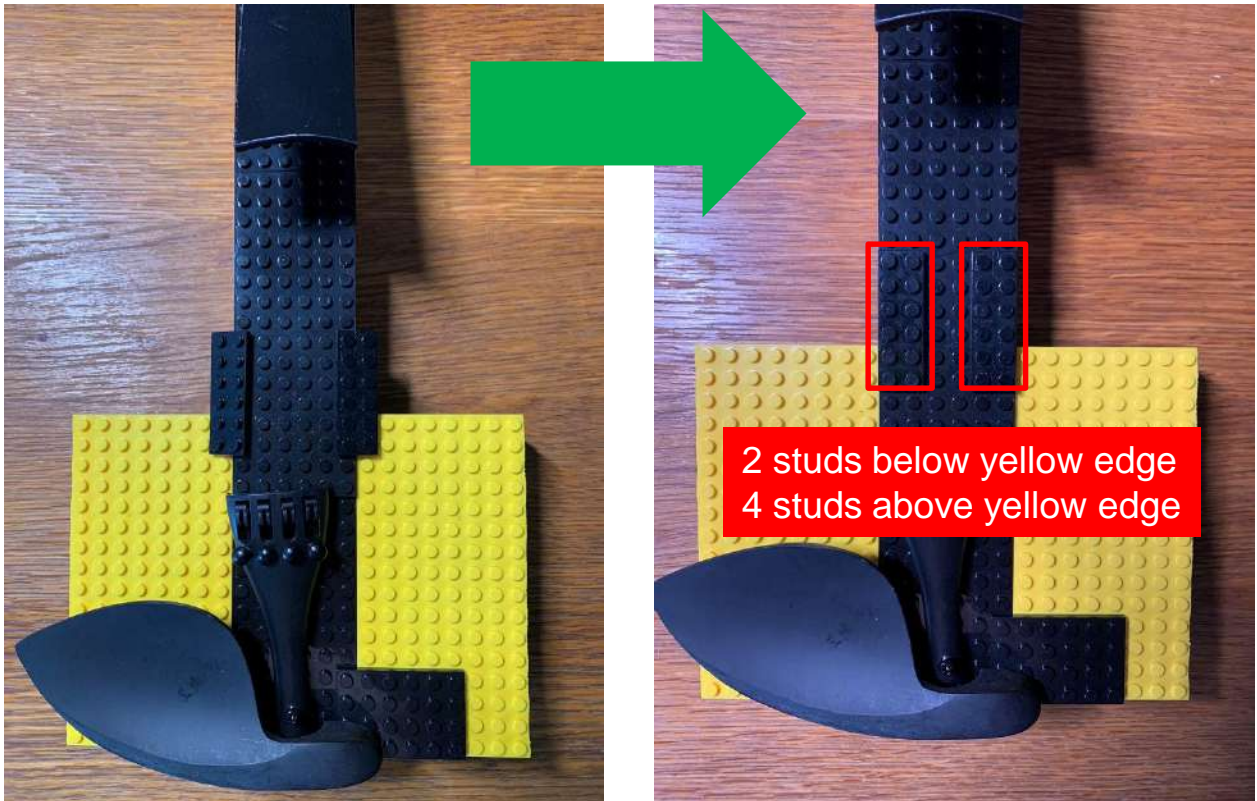
Pull the wire through the hole on the bridge holder, pull it to the end and place bridge in side the holder



Step 9

Attach bridge/soundbox to violin body

Step 9b



Step 9

Attach bridge/soundbox to violin body

Step 9c



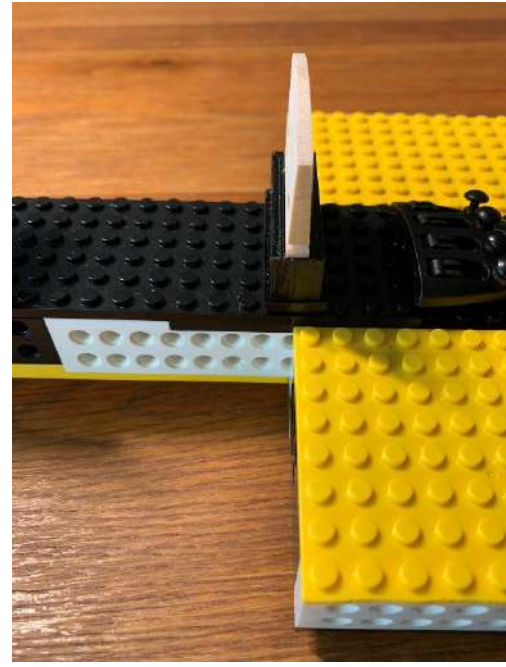
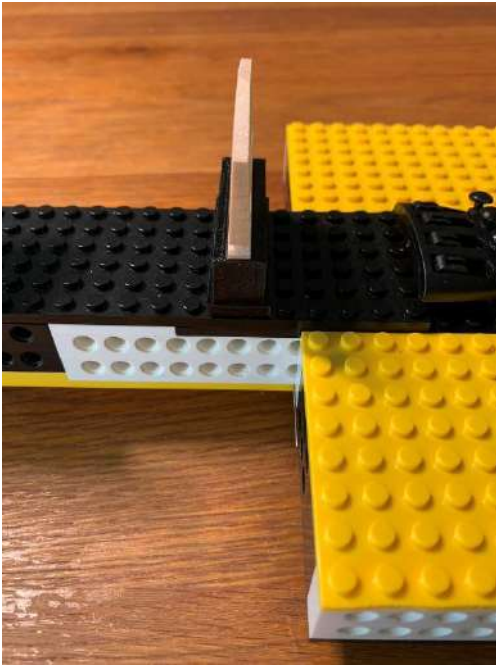
Place bridge holder and bridge on top of the spine



Step 9 – With soundbox

Attach bridge/soundbox to violin body

Position of violin bridge varies from sizes



4/4 size

1 stud to the
Yellow edge

3/4 size

0 stud to the
Yellow edge

1/2 size

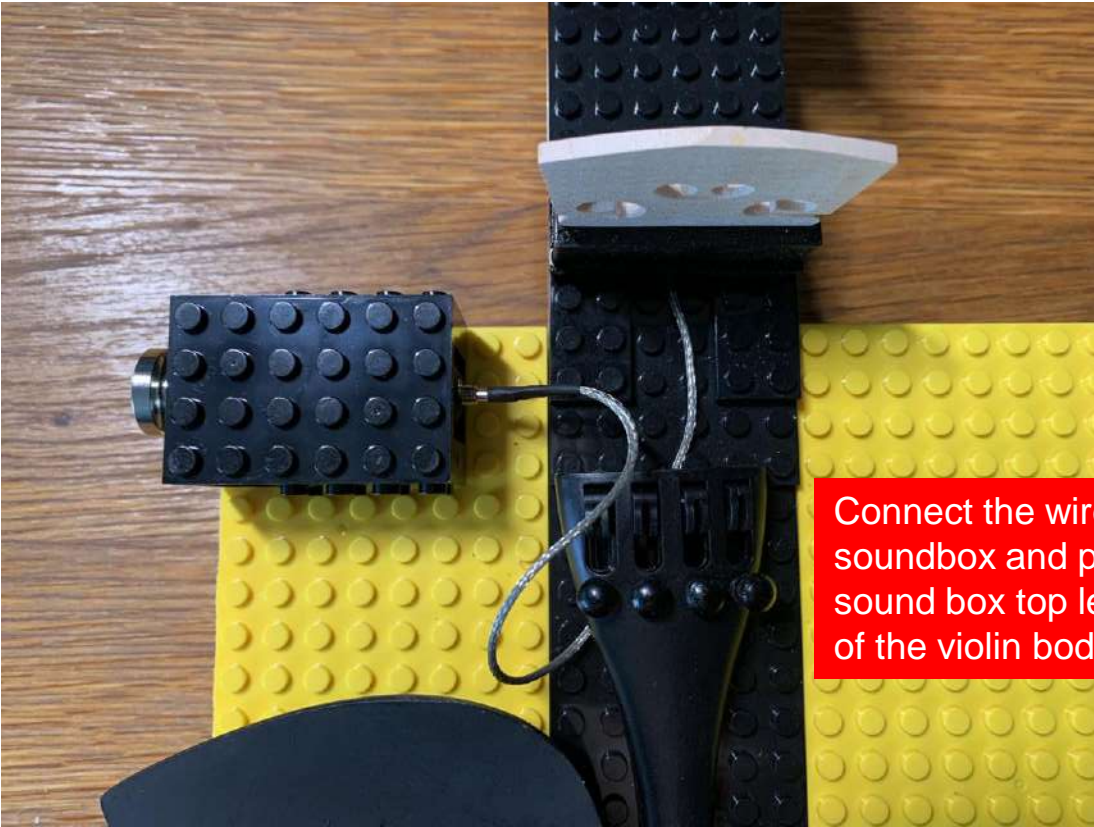
-1 stud to the
Yellow edge



Step 9

Attach bridge/soundbox to violin body

Step 9d



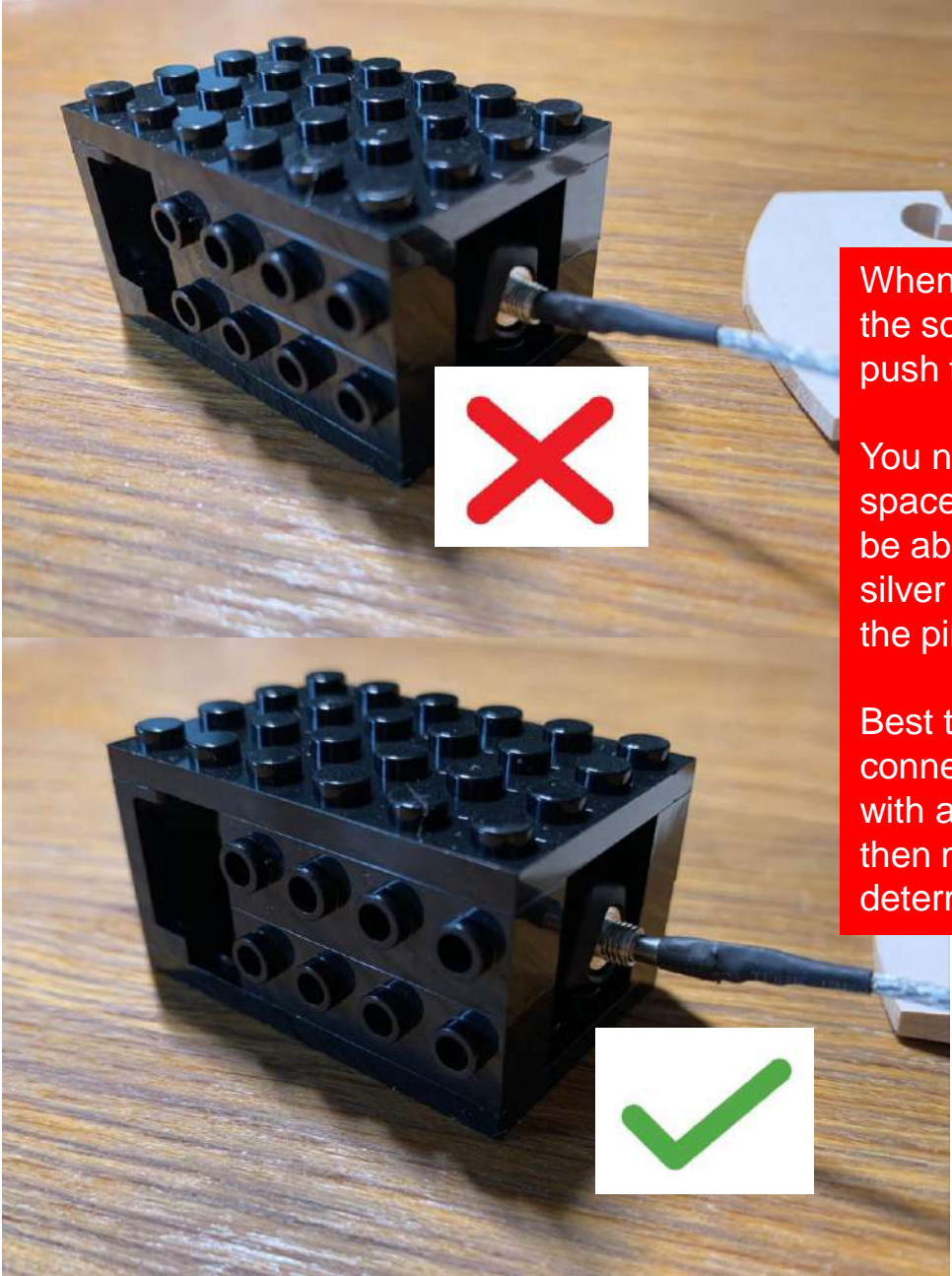
Connect the wire to the soundbox and place sound box top left corner of the violin body



Step 9

Attach bridge/soundbox to violin body

Note



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.

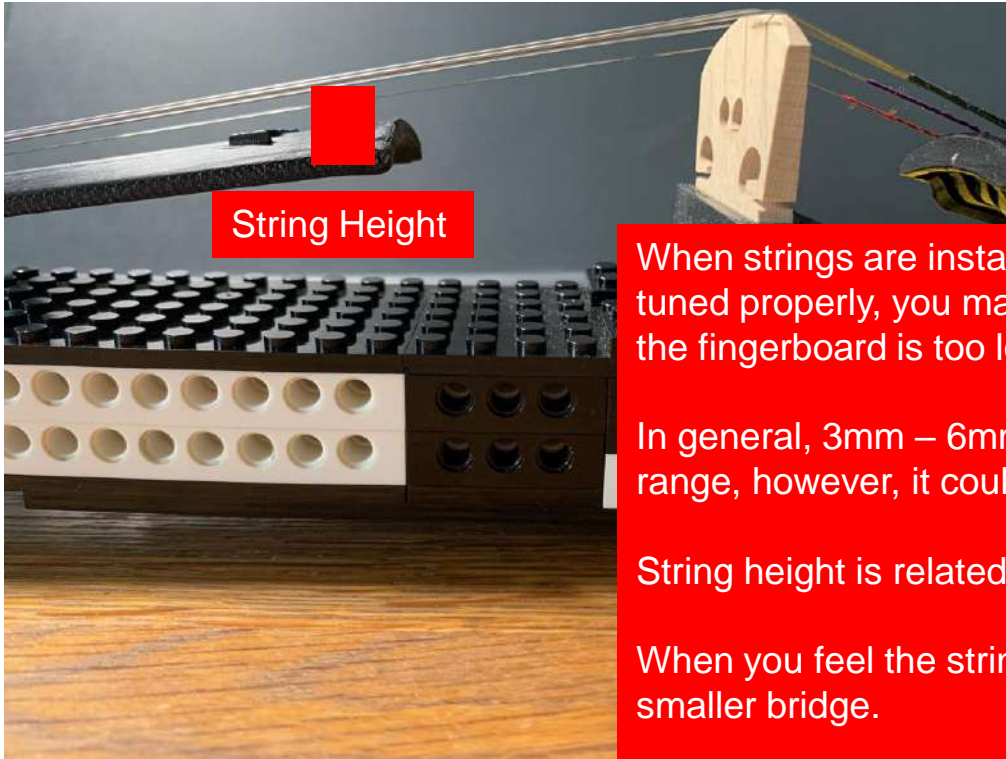
Best testing method is to connect the soundbox with amplifier/speaker, then move the pin in/out to determin best position.



Step 9

Attach bridge/soundbox to violin body

Note



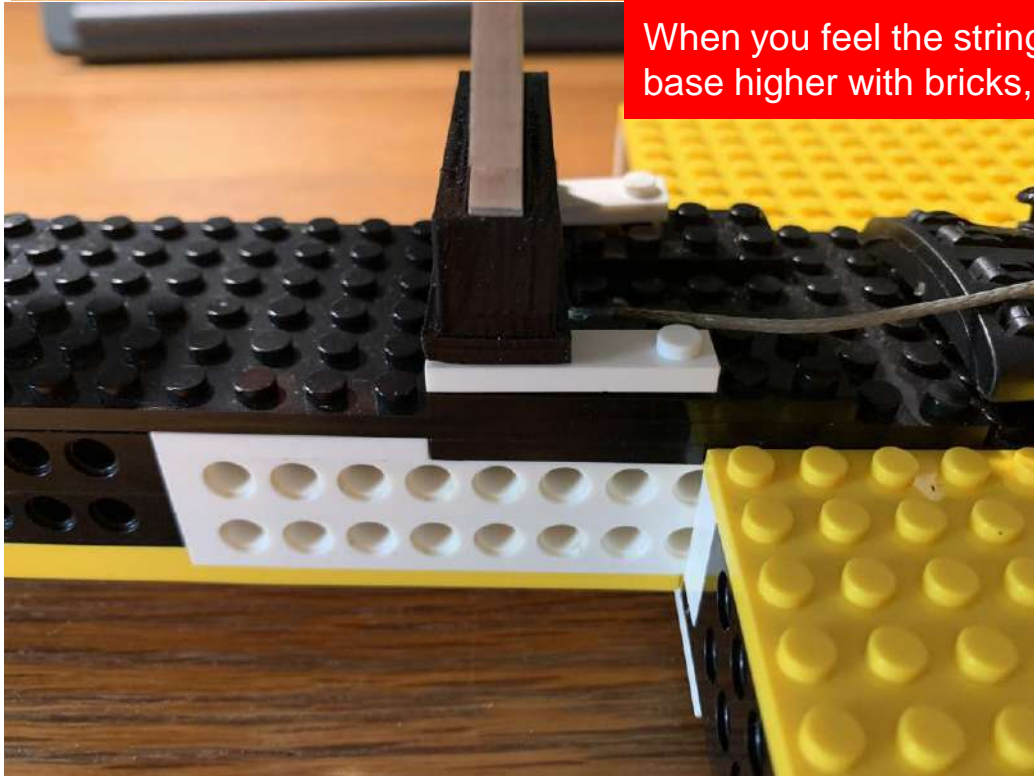
When strings are installed and after they are tuned properly, you may find string height to the fingerboard is too low or too high.

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 too high, use the smaller bridge.

When you feel the string is too low, make the base higher with bricks, as seen to the left



Step 10

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/>

