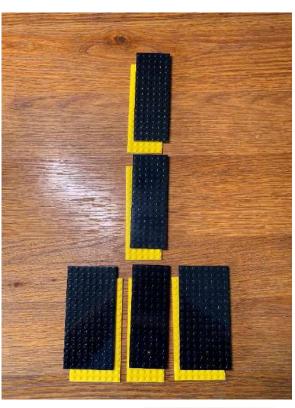
Step 1 – Determine Design and Size

Determine the color/design and size of your violin.

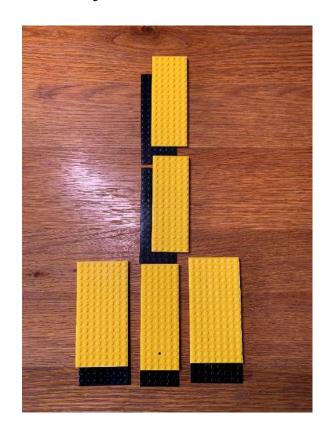
In general, three types of plates in two colors (primary and secondary color) are included, therefore you need to determine the color/design of your violin first.

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





As an addon, you may find Fire or Thunder or other sidebox parts included in you package, please follow this instruction manual for the first half and skip to page 70.

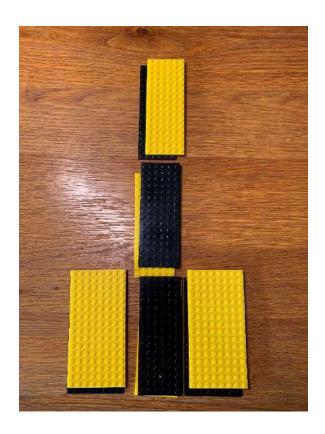


Step 1 – Violin Design

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)									
	\$	*	*	*	*	*	\$	*	8
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-paim)	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

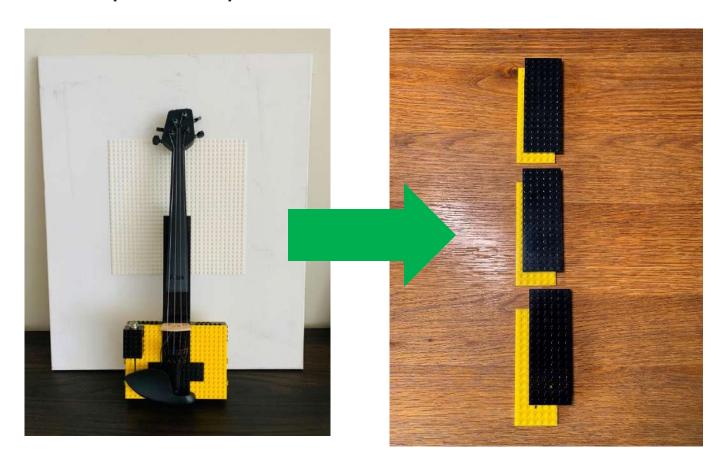
For 3/4 size, please go through page 17 - 27 and 39 - end

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



Build spine of the violin.

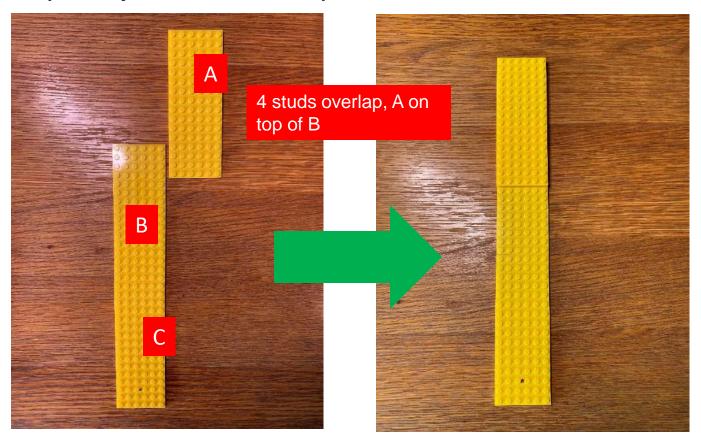
In this example, we will build the violin as below, therefore yellow plate is the back plate of the spine.

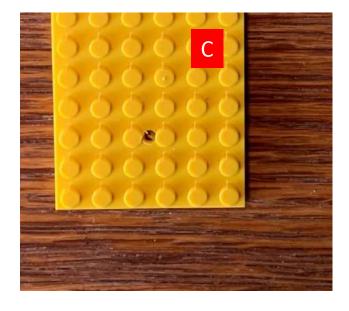




Build spine of the violin.

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.

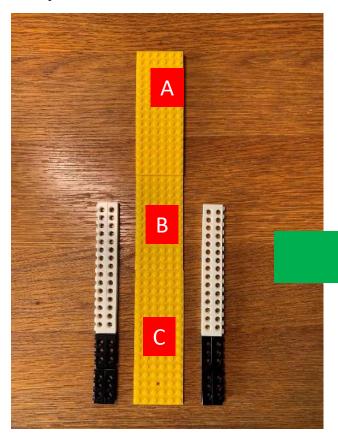


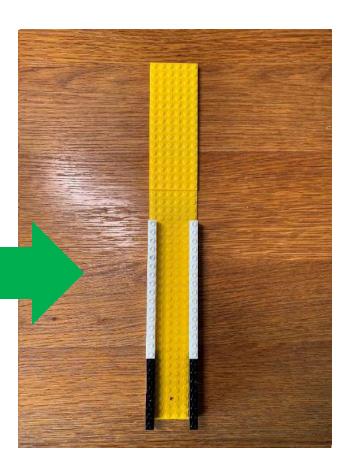
4/4 size spine

Step 2

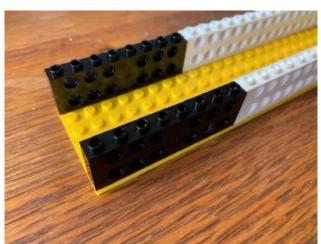
Build spine of the violin.

Step 2b - connect B and C











Step 2c

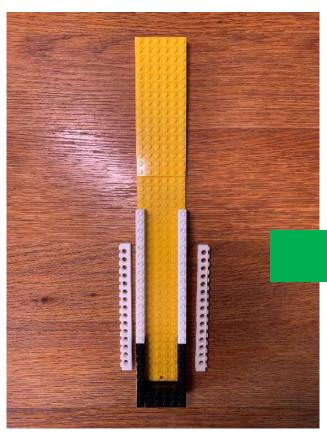




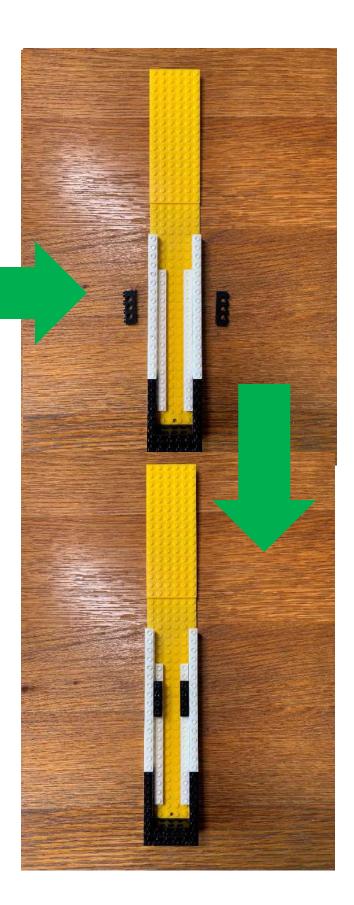




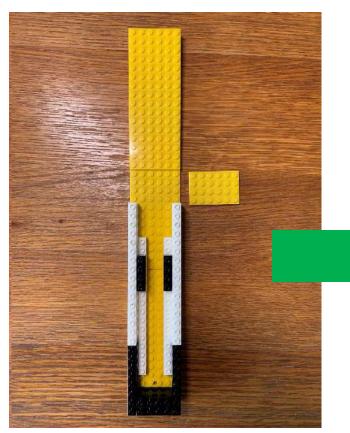
Step 2d

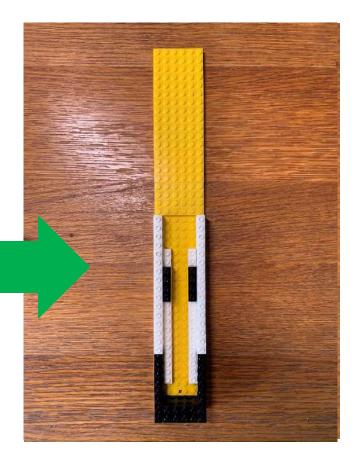






Step 2e

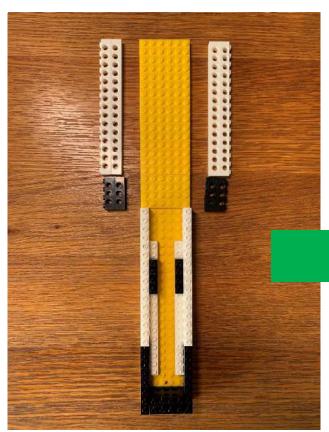








Step 2f



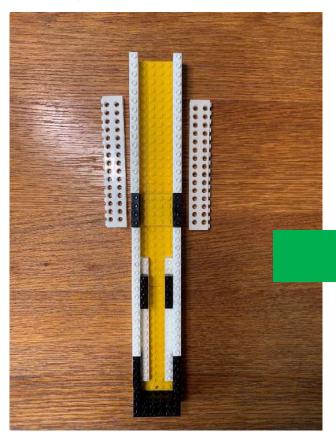






Build spine of the violin.

Step 2g



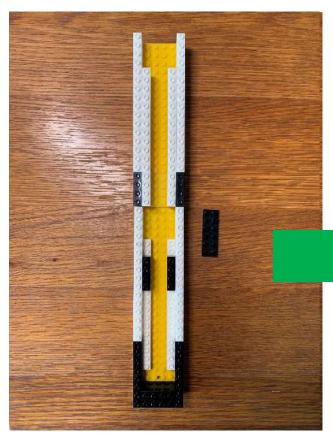






Build spine of the violin.

Step 2h



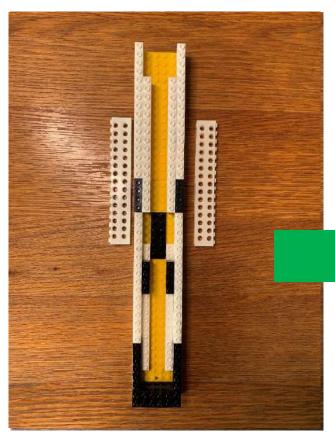






Build spine of the violin.

Step 2i

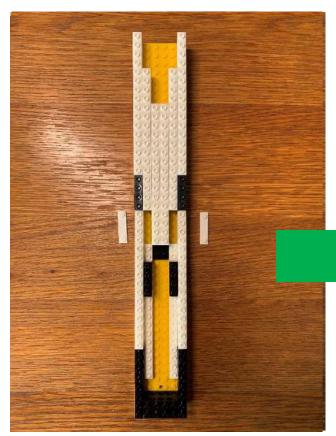


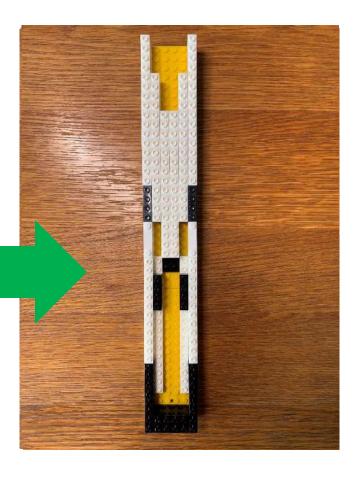






Step 2j





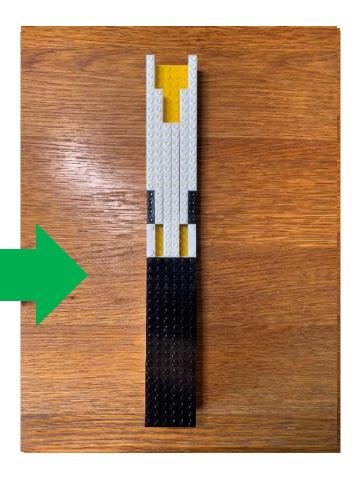


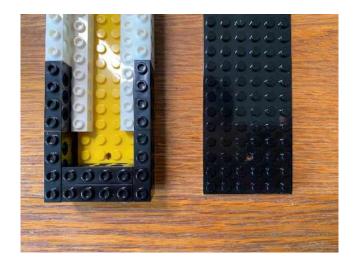


Build spine of the violin.

Step 2k







Note:

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



Build spine of the violin.

4/4 size spine

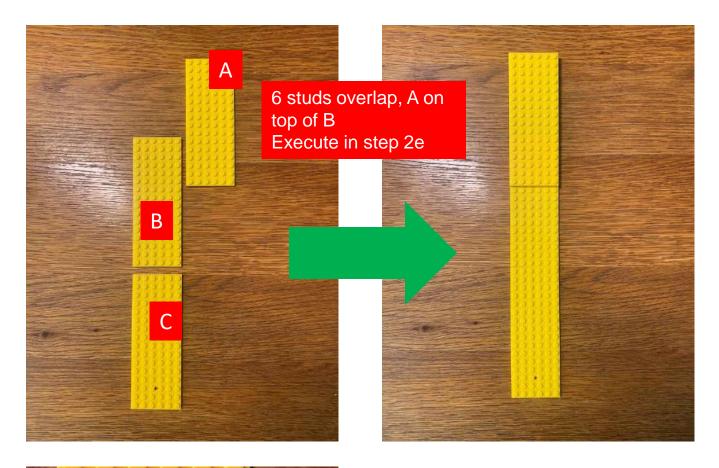
Note:

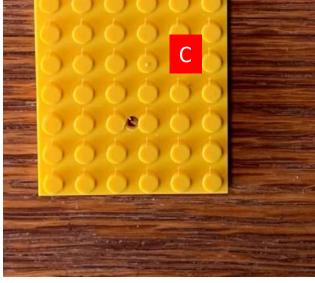
4/4 size spine is done, please skip to page 39 for step 3



Build spine of the violin.

Step 2a - lay out base of the back plate





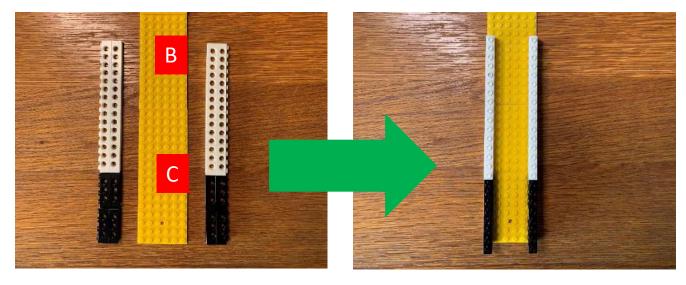
Note:

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

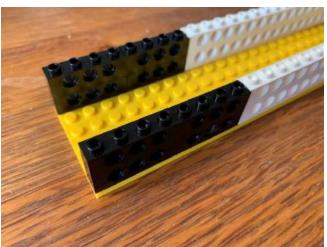


Build spine of the violin.

Step 2b - connect B and C

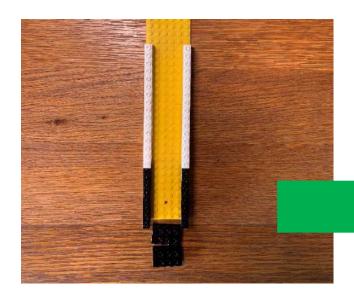


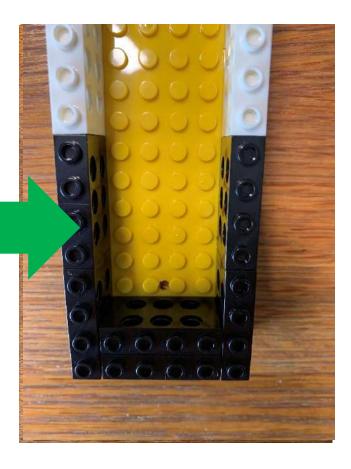






Step 2c

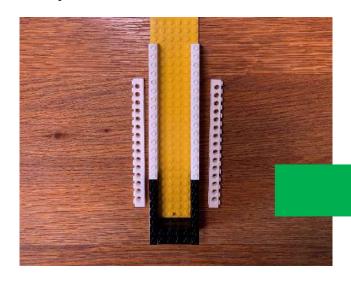


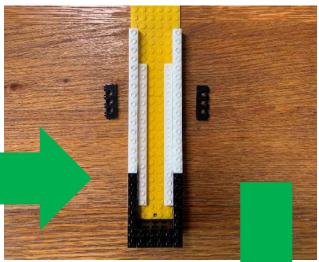




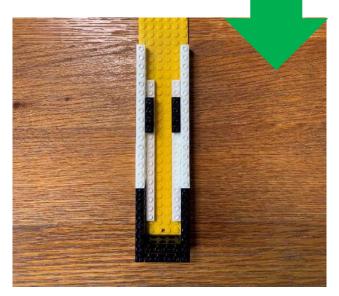


Step 2d





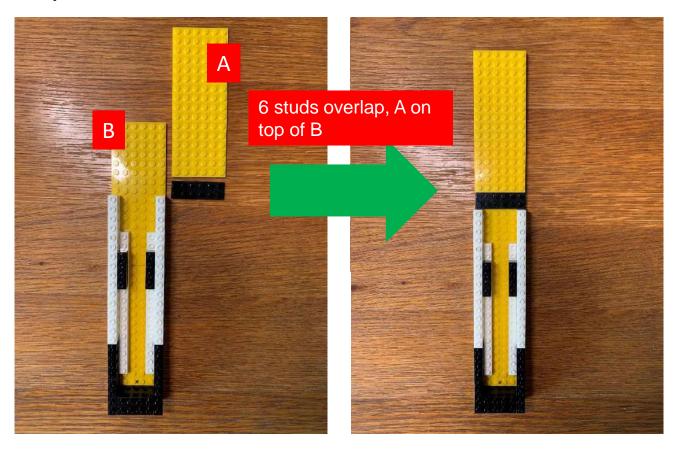






Build spine of the violin.

Step 2e

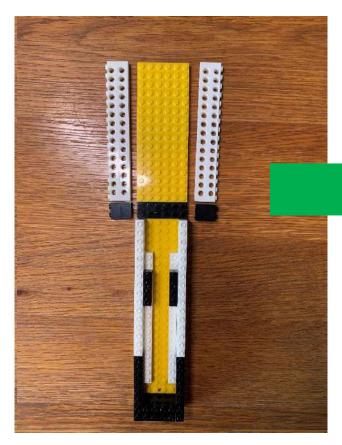


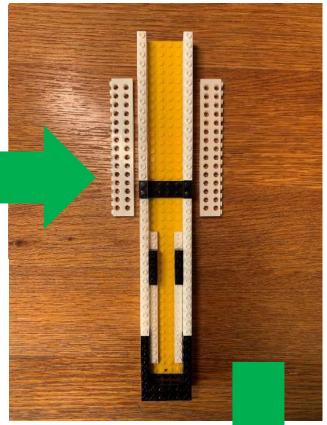


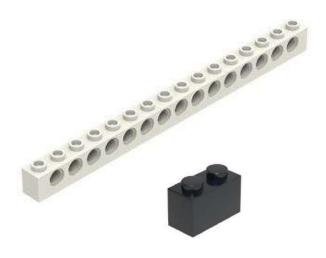




Step 2f





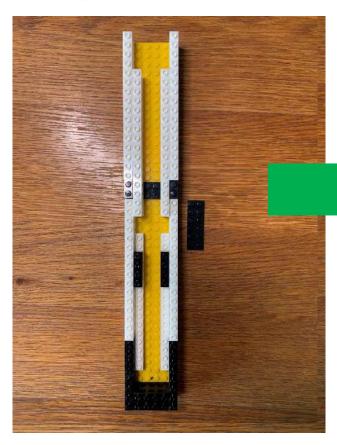


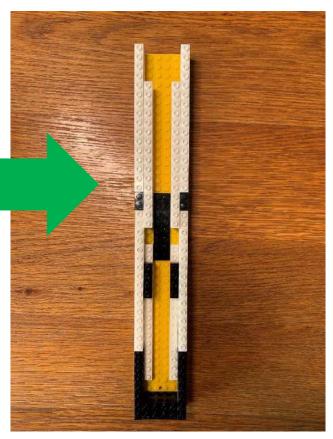




Build spine of the violin.

Step 2g



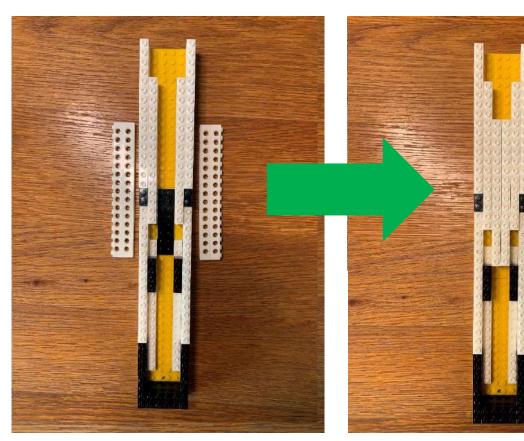






Build spine of the violin.

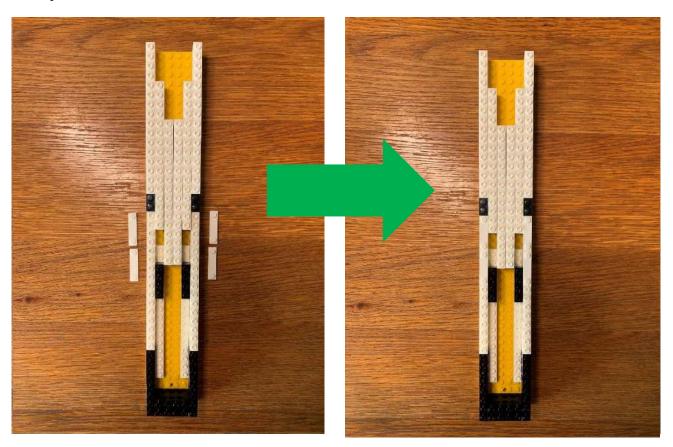
Step 2h







Step 2i

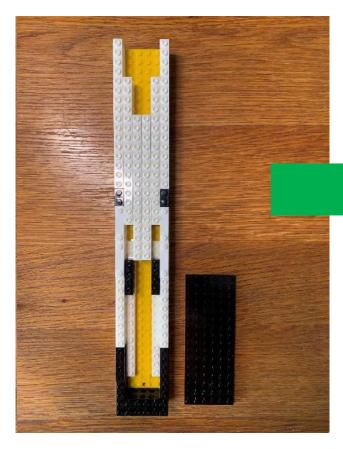




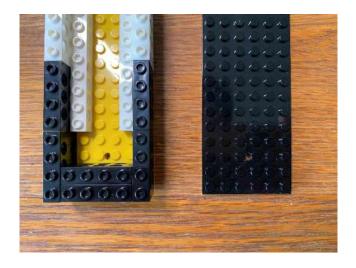


Build spine of the violin.

Step 2j







Note:

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



Build spine of the violin.

3/4 size spine

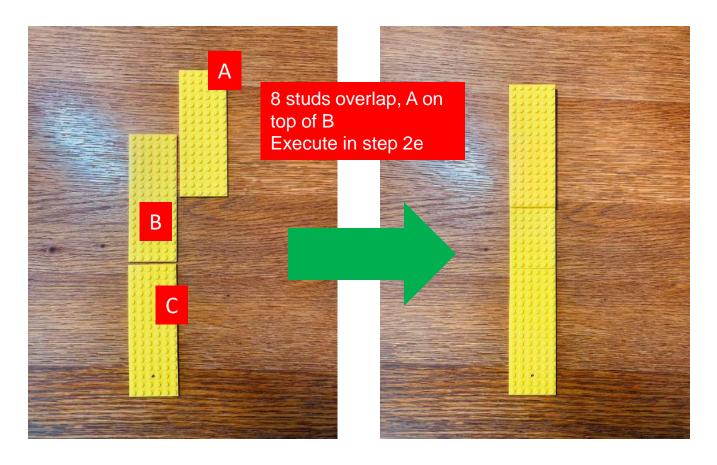
Note:

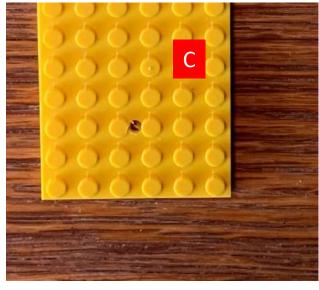
3/4 size spine is done, please skip to page 39 for step 3



Build spine of the violin.

Step 2a - lay out base of the back plate





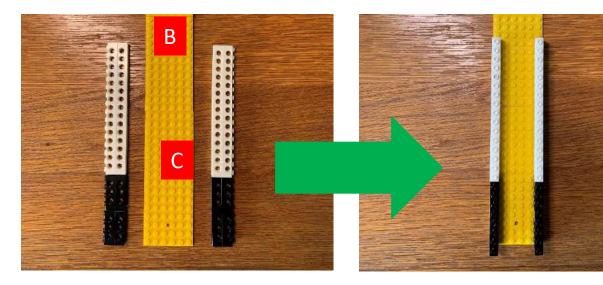
Note:

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



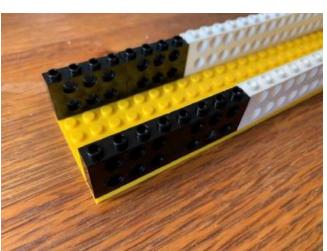
Build spine of the violin.

Step 2b - connect B and C



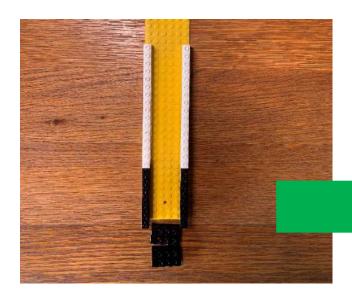


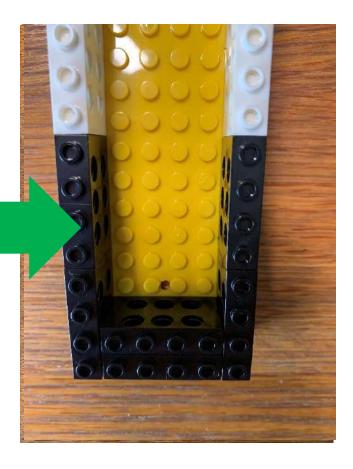






Step 2c

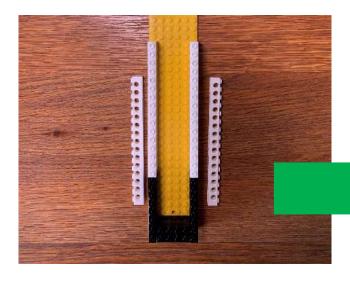


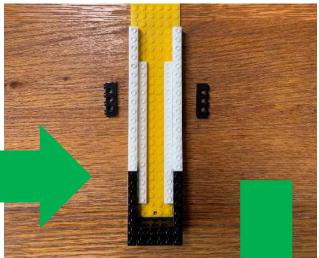




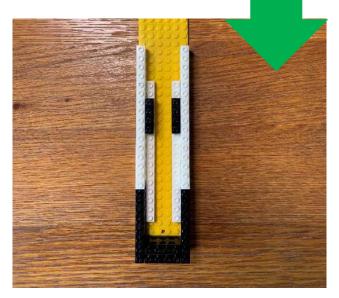


Step 2d





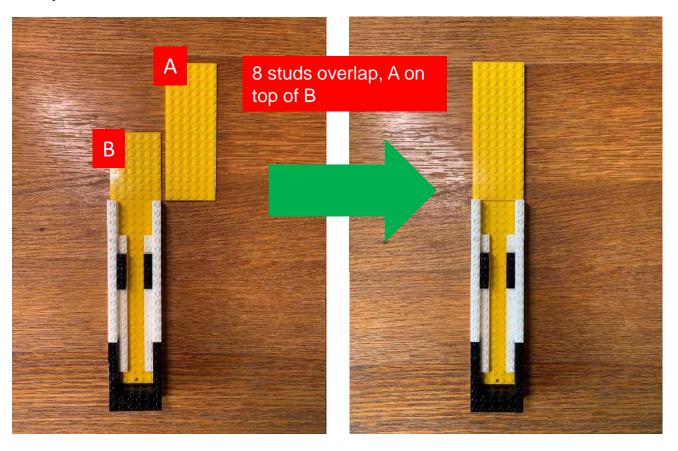






Build spine of the violin.

Step 2e



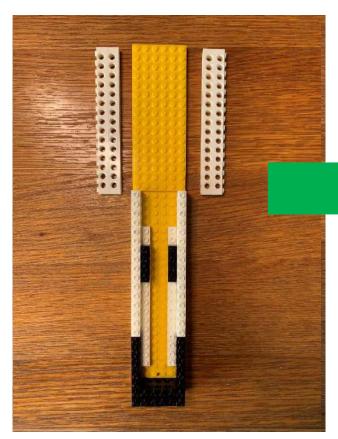


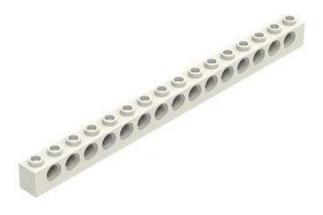


1/2 size spine

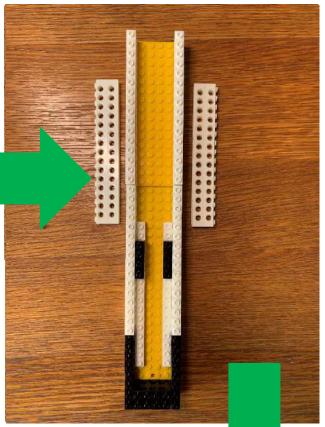
Step 2Build spine of the violin.

Step 2f





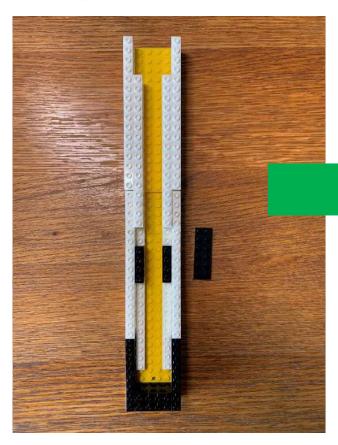


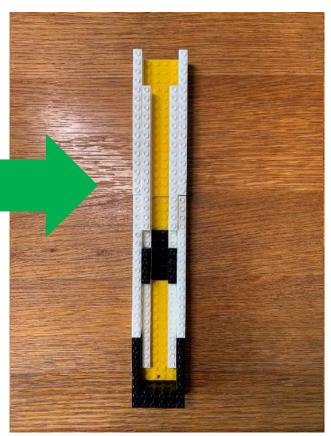




Build spine of the violin.

Step 2g



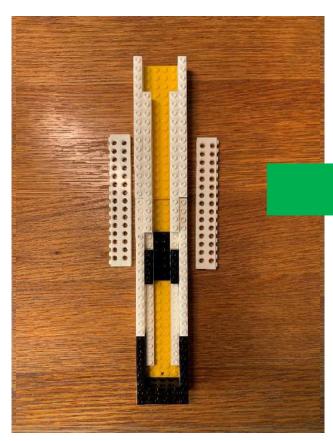


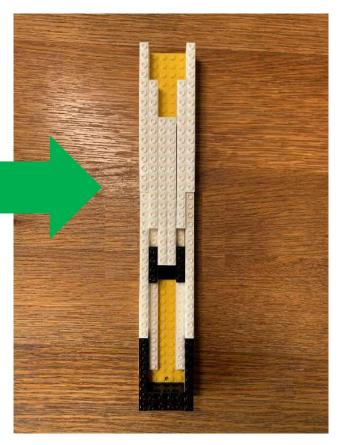




Build spine of the violin.

Step 2h

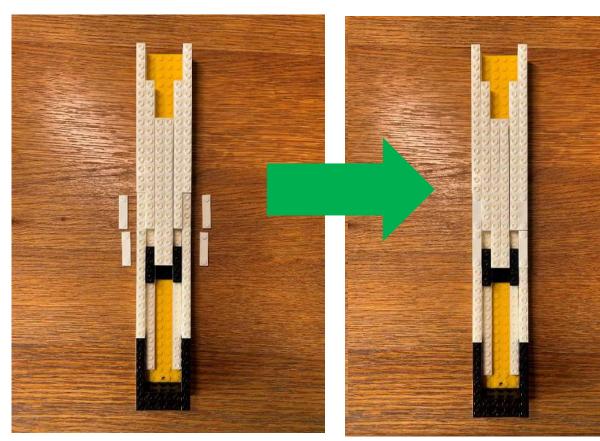








Step 2i

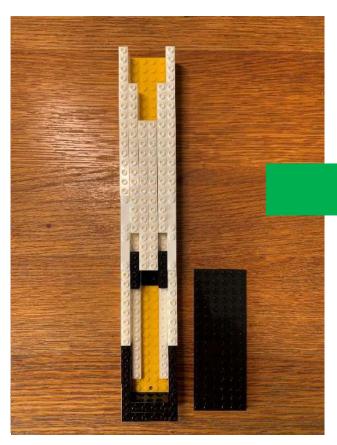




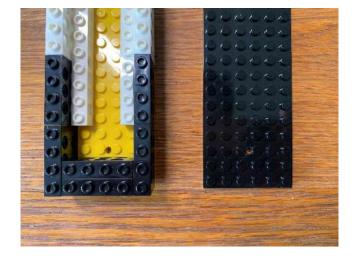


Build spine of the violin.

Step 2j







Note:

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



Build spine of the violin.

1/2 size spine

Note:

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







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.





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.

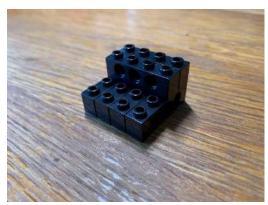


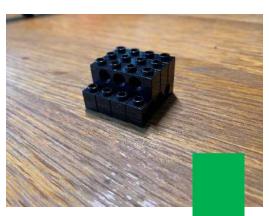
Step 3Build neck and tuning pegs of the violin.

Step 3c – building a square block for attachment

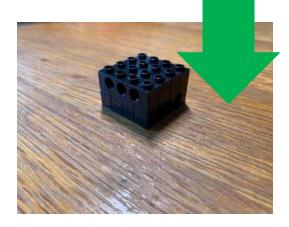














Build neck and tuning pegs of the violin.

Step 3d - attach with screw





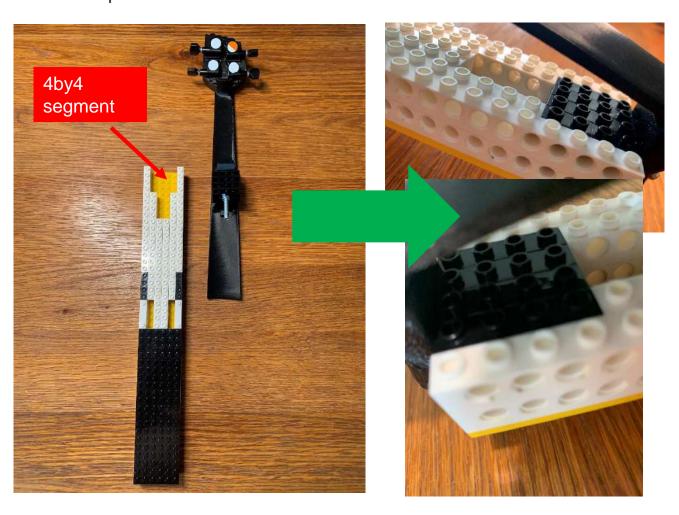




Attach violin neck to violin spine

Step 4a

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



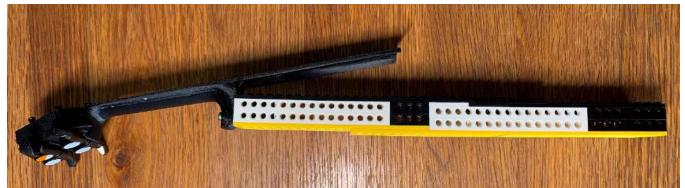


Step 4Attach violin neck to violin spine

Step 4b





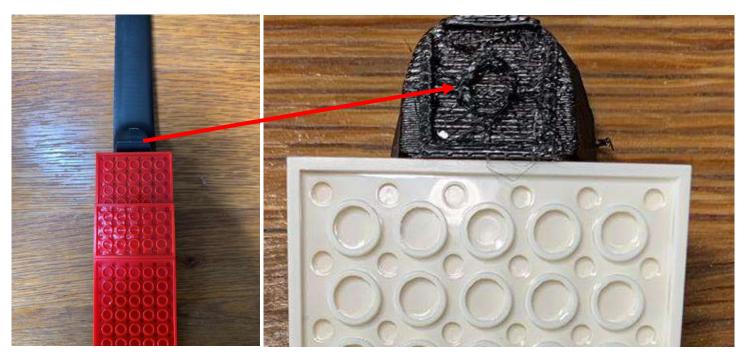




Lock violin neck to violin spine

Step 4c – optional

In some versions of products, you may find the end of violin neck has 2*2 Lego plate

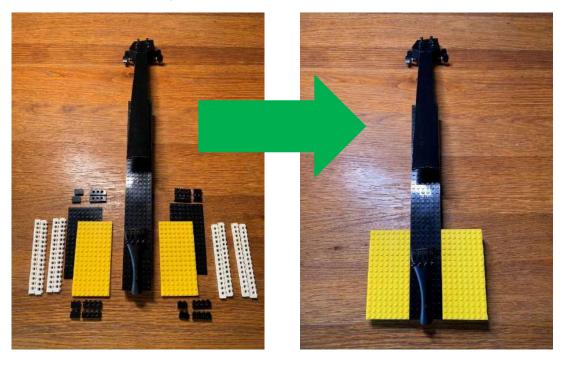


In case of such, you can futher lock the neck and violin body as follow

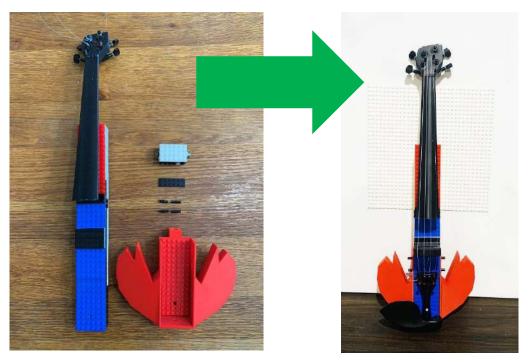


Build sidebox → Install tailpiece → Bridge

You product package includes brick sidebox parts, in case you want to implement it, start from the next page.



As an add-on, Fire sidebox or Thunder sidebox may be included in your product package, In case you want to implement it, start from page 70.





Attach tailpiece with violin spine

Step 5a

Put the screw into the hole on tailpiece.



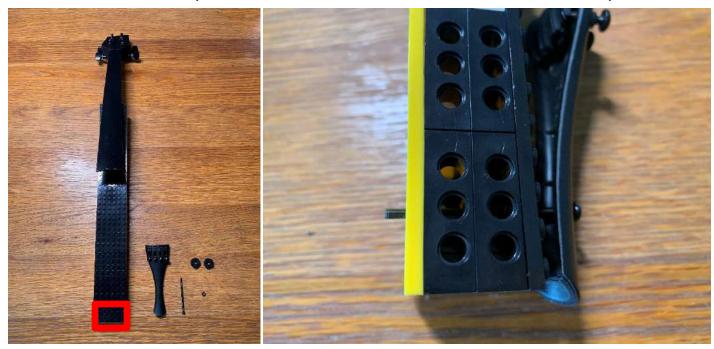




Attach tailpiece with violin spine

Step 5b

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





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.

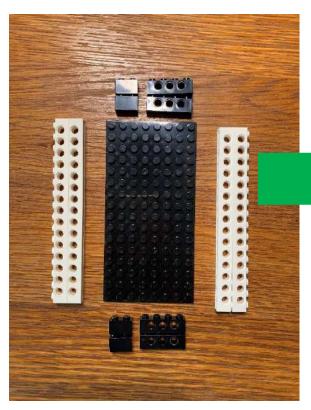






Attach side boxes to violin spine

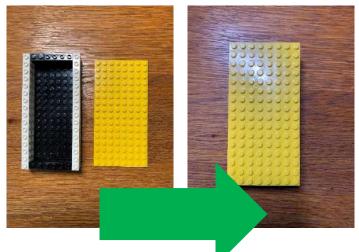
Step 5d





Note:

Repeat the same process again to build another side box.

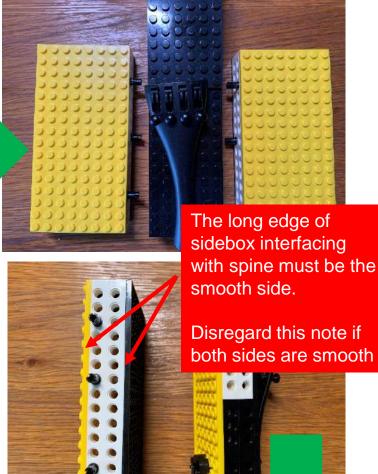




Attach side boxes to violin spine

Step 5e – attach side box



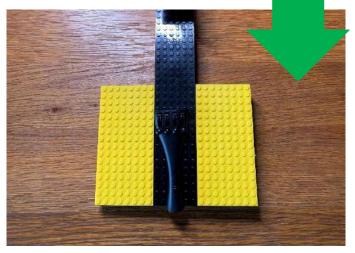


Note:



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.

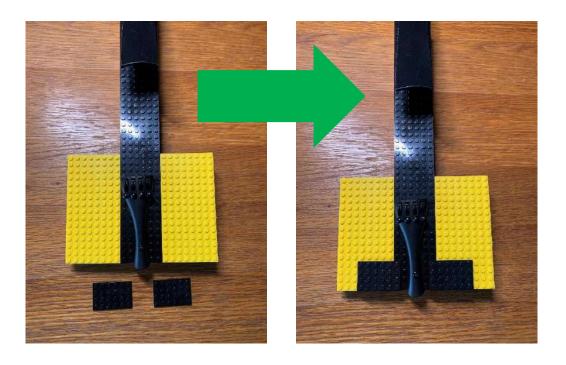
Make sure the bottom edge is aligned to the spine.





Lock side boxes to violin spine

Step 6a - front lock option 1



option 2

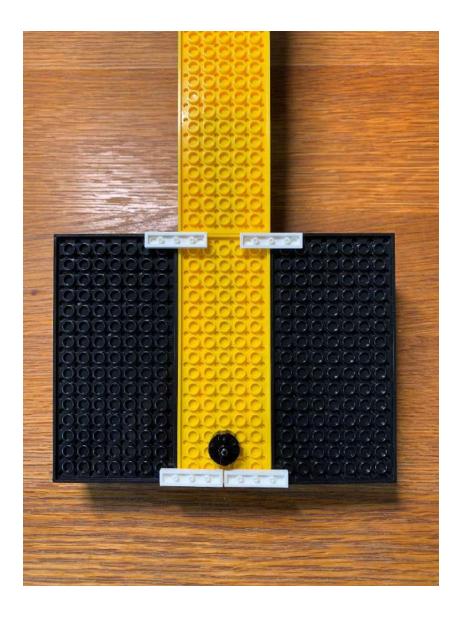


option 3 – use other color plate to lock



Step 6Lock side boxes to violin spine

Step 6b – back lock

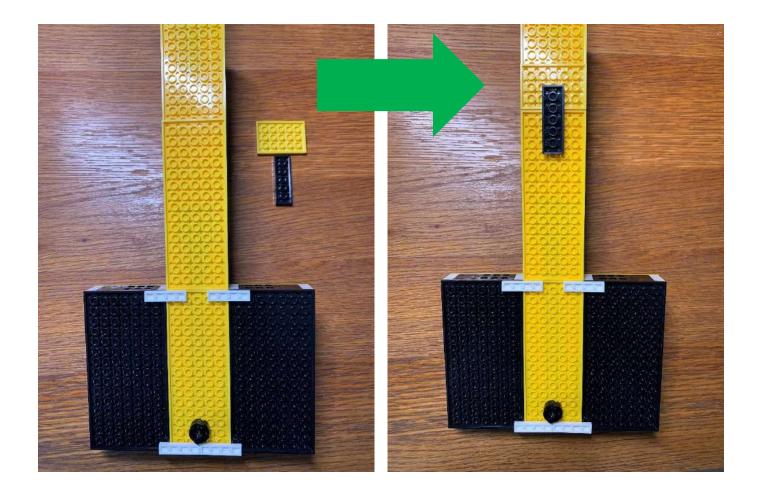






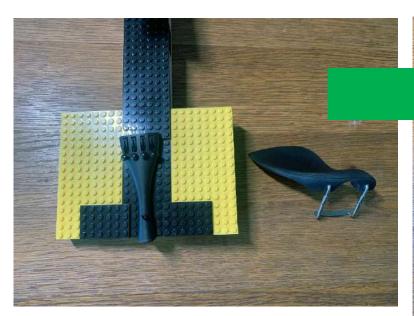
Step 6Lock side boxes to violin spine

Step 6c – back lock





Step 7
Attach chinrest to violin body

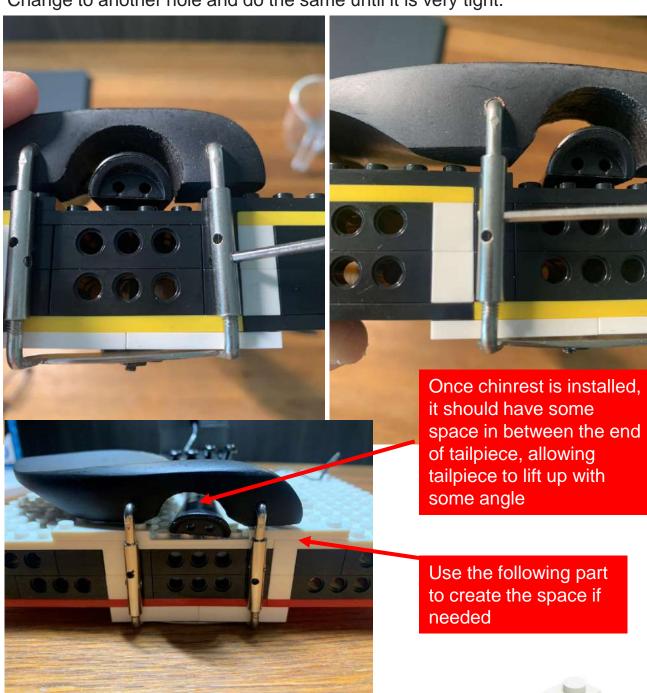




Attach chinrest to violin body

Step 7a

Place the chinrest to the bottome 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.

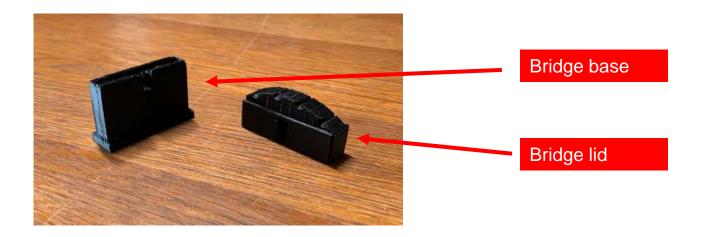


Step 8 – No soundbox

Attach bridge/soundbox to violin body

Note:

In case your package includes soundbox, please go to page 61

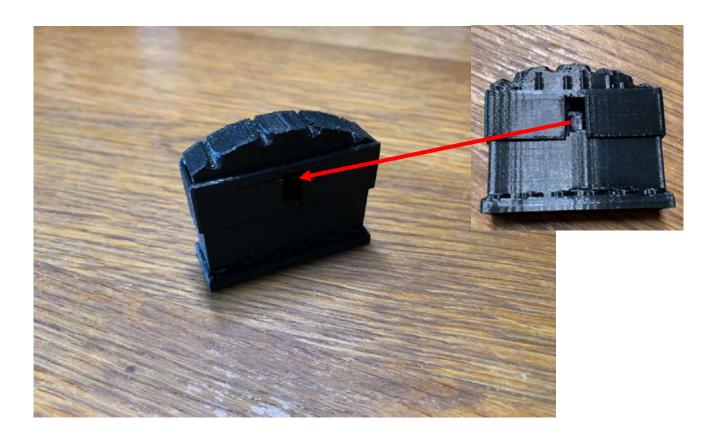




Step 8 – No soundbox

Attach bridge/soundbox to violin body

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



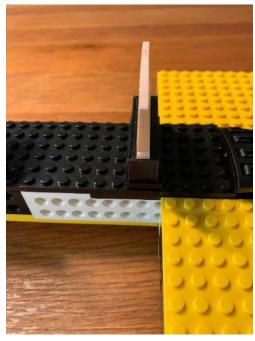


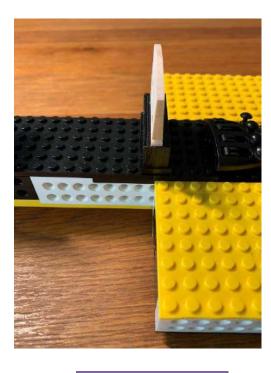
Step 8 – No soundbox

Attach bridge/soundbox to violin body

Postion of violin bridge varies from sizes







4/4 size

1 stud to the Yellow edge 3/4 size

O stud to the Yellow edge

1/2 size

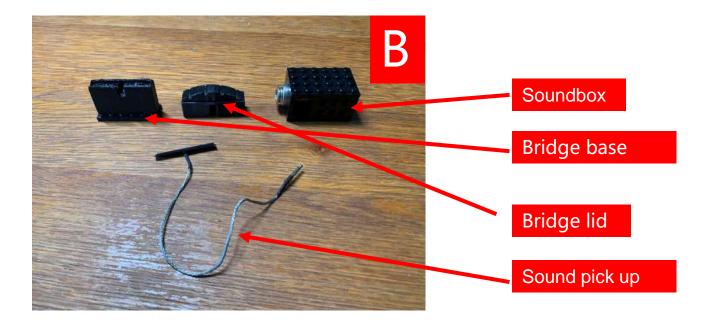
-1 stud to the Yellow edge



Step 8 – With soundbox

Attach bridge/soundbox to violin body

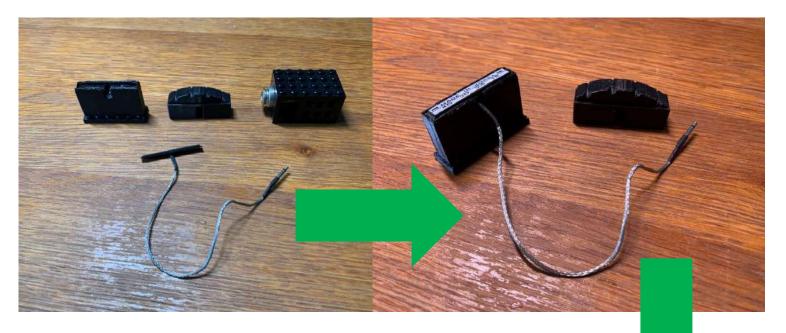
Install bridge with soundbox

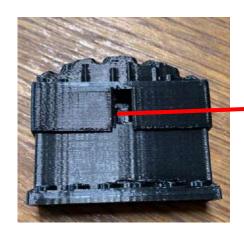


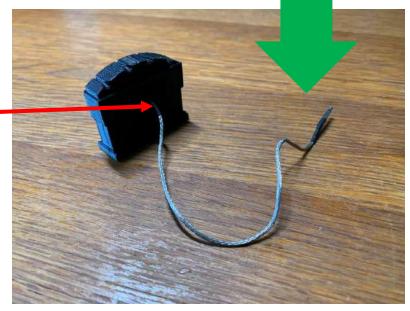


Step 8Attach bridge/soundbox to violin body

Step 8a



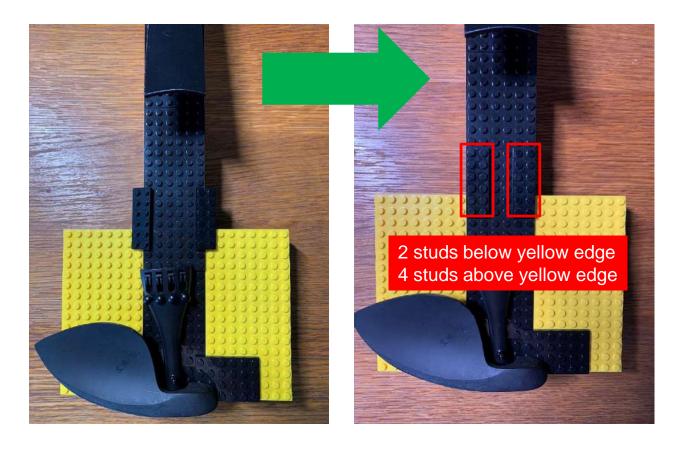






Attach bridge/soundbox to violin body

Step 8b







Attach bridge/soundbox to violin body

Step 8c

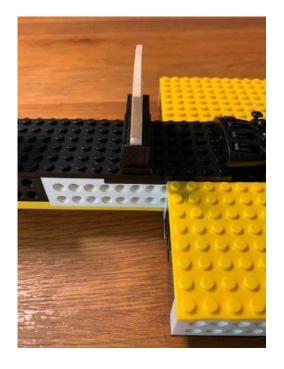


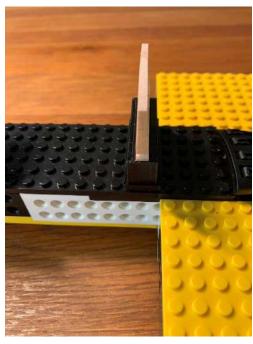


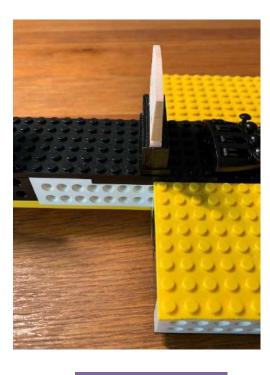
Step 8 – With soundbox

Attach bridge/soundbox to violin body

Postion of violin bridge varies from sizes







4/4 size

1 stud to the Yellow edge 3/4 size

O stud to the Yellow edge

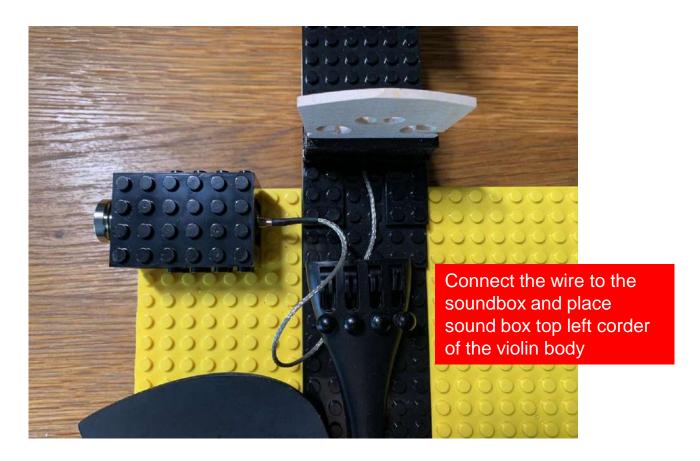
1/2 size

-1 stud to the Yellow edge



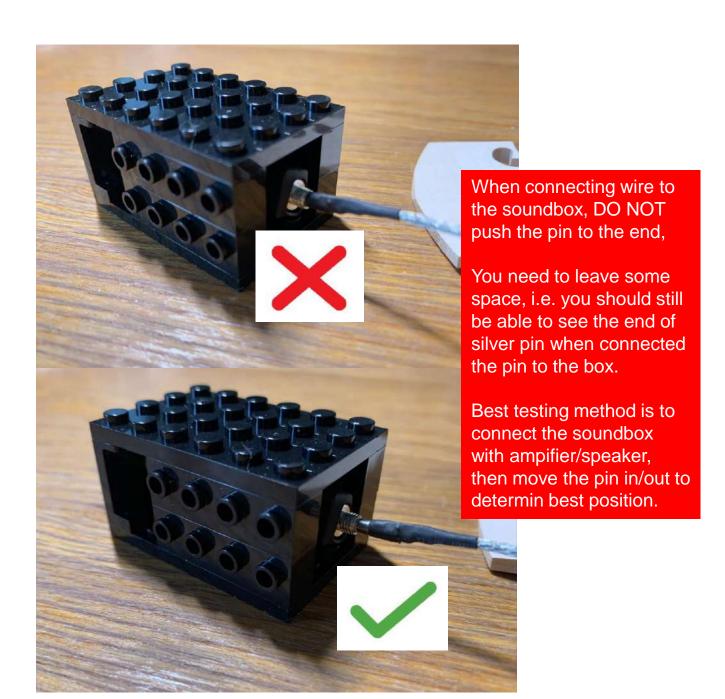
Attach bridge/soundbox to violin body

Step 8d





Attach bridge/soundbox to violin body



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

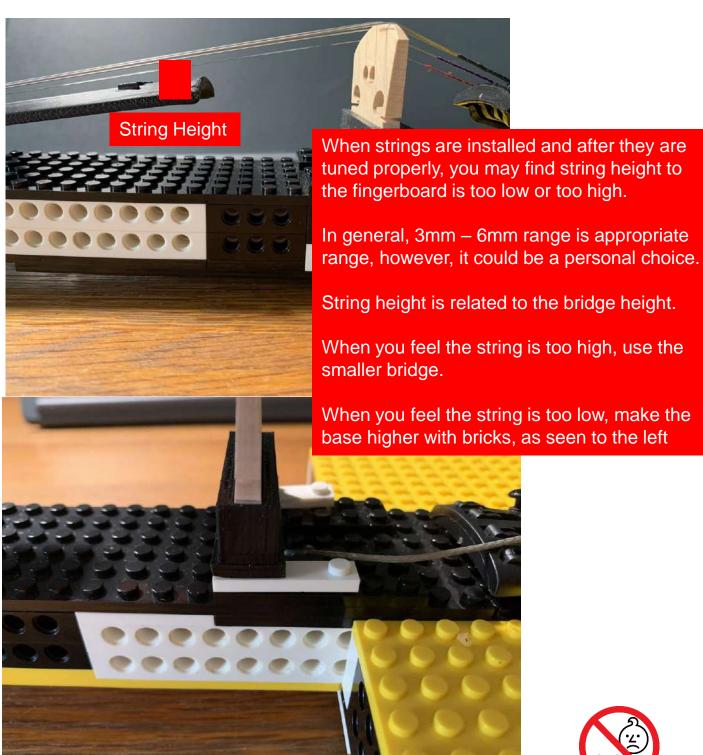
https://funkidviolin.com/how-to-string-restring-violin-and-how-to-tune/





Attach bridge/soundbox to violin body

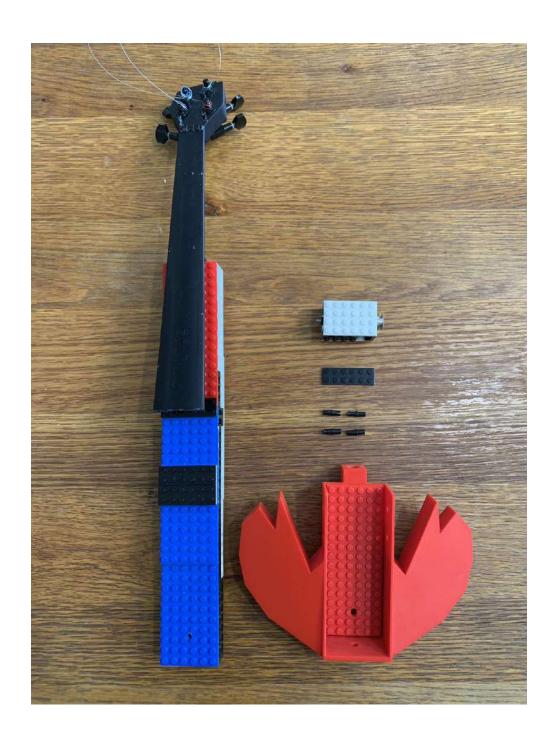
Note





Fire sidebox is used as exmaple, Thunder sidebox follows the same steps

Step 5a

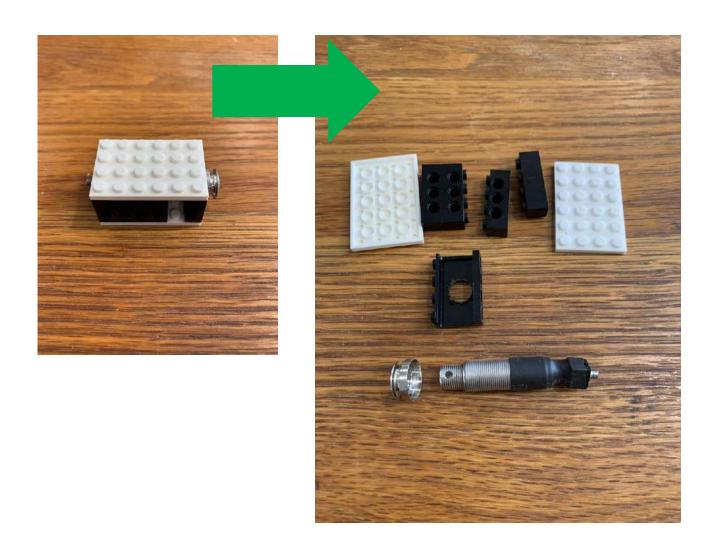




Fire sidebox is used as exmaple, Thunder sidebox follows the same steps

Step 5b

Disassemble soundbox

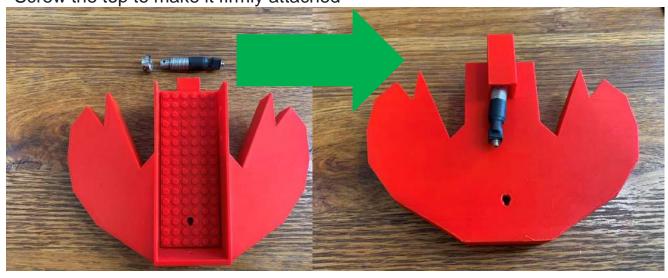


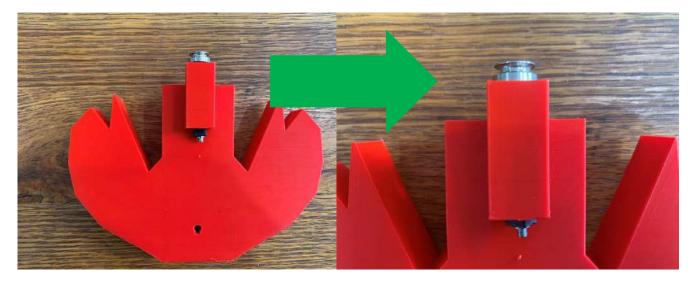


Fire sidebox is used as exmaple, Thunder sidebox follows the same steps

Step 5c

Put the sound pickup (with 6.5mm jack) through the hole located at the back Screw the top to make it firmly attached



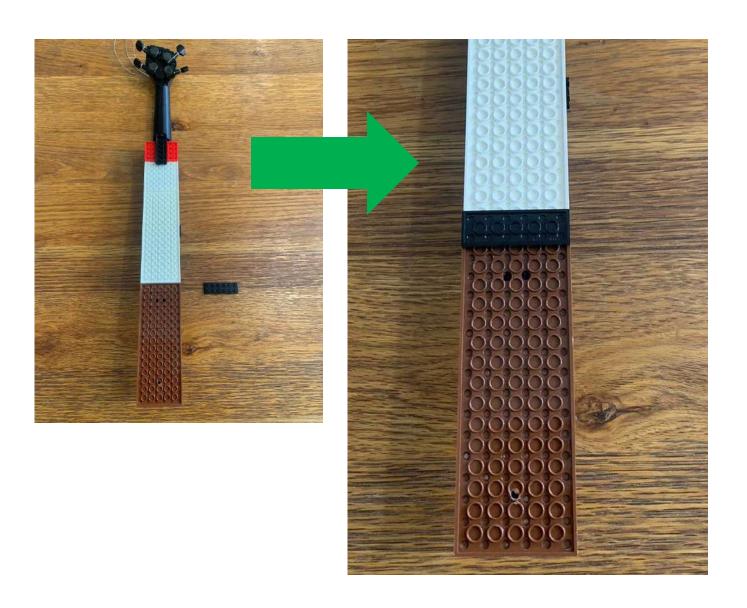




Fire sidebox is used as exmaple, Thunder sidebox follows the same steps

Step 5d

Lock the two backplates with 2*6 plate, put it in the middle.

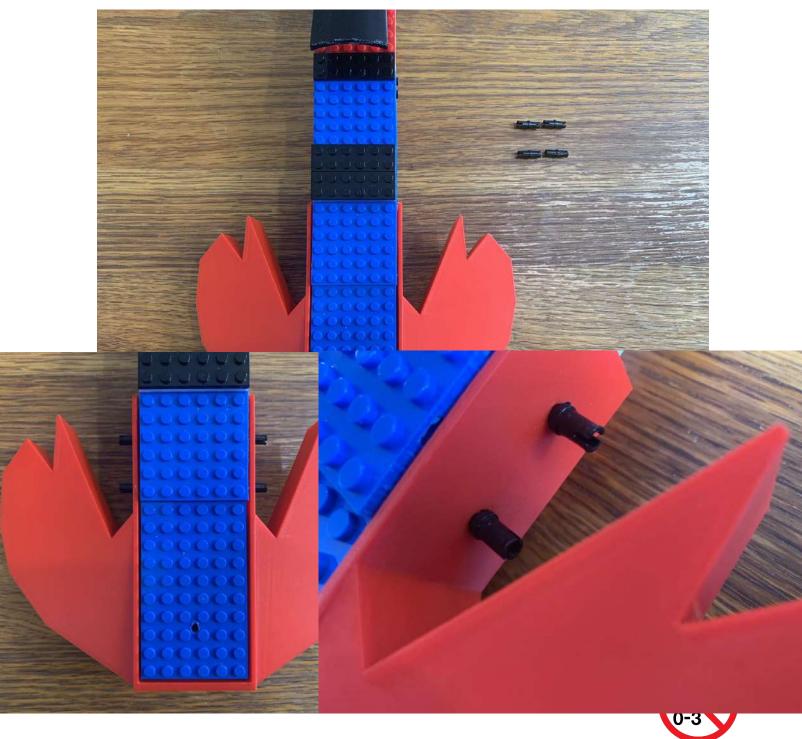




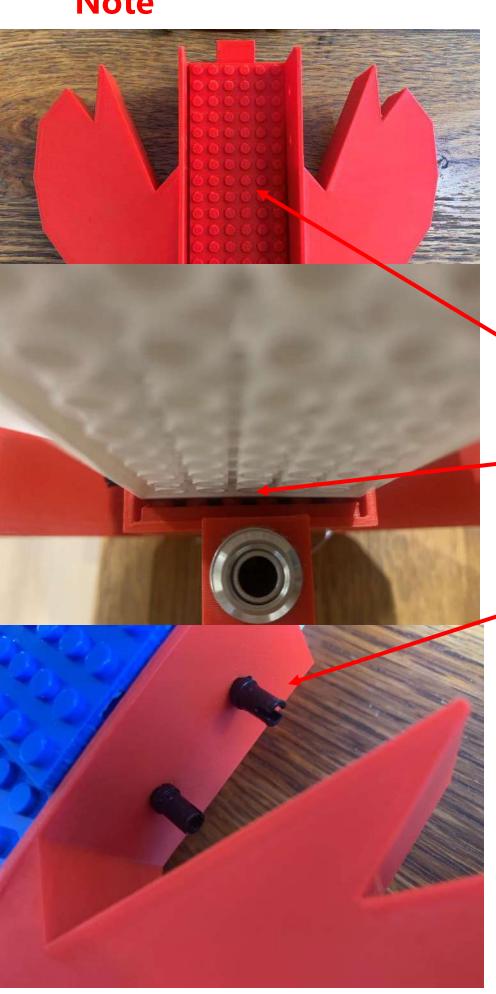
Fire sidebox is used as exmaple, Thunder sidebox follows the same steps

Step 5e

Use 4 sticks to firmly attach spine to fire sidbox



Note



Although the base layer of the sidebox is designed with studs like building blocks,

It doesn't need to fit perfectly with the base plate of the spine. This design is mainly intended to increase friction.

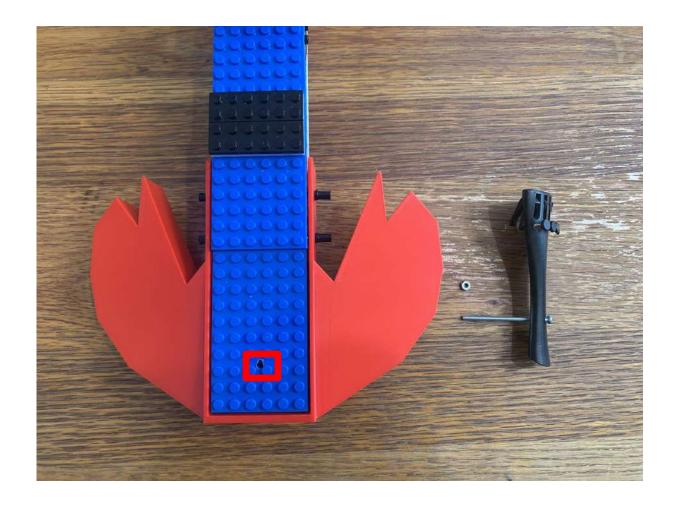
As long as the four sticks on the side can be inserted into the holes and fixed, the sidebox will be securely locked in place by these four sticks and the chin rest that will be installed later.



Fire sidebox is used as exmaple, Thunder sidebox follows the same steps

Step 6a

Install tailpiece

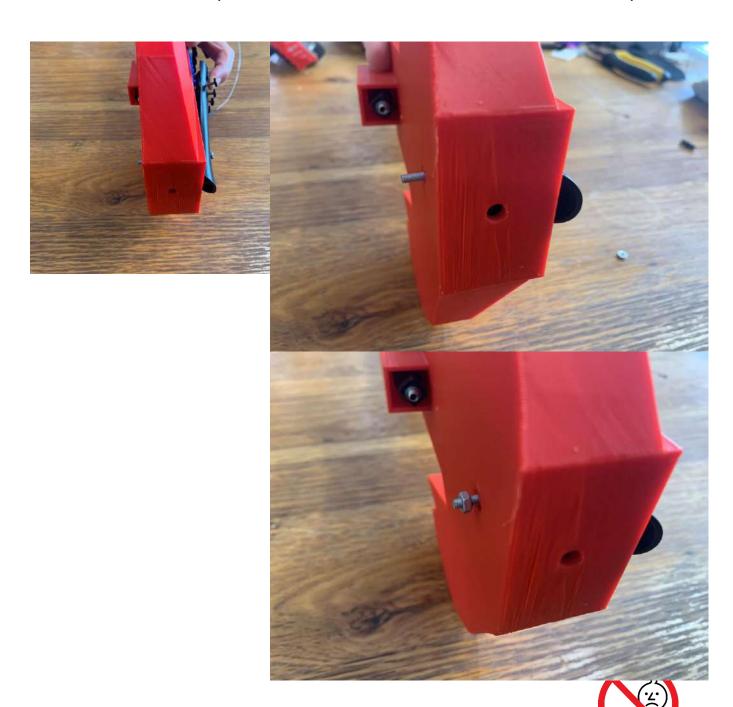




Fire sidebox is used as exmaple, Thunder sidebox follows the same steps

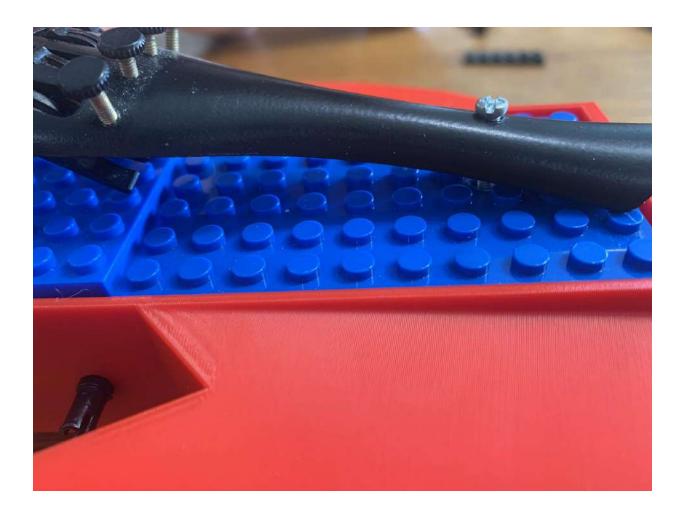
Step 6b

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



Fire sidebox is used as exmaple, Thunder sidebox follows the same steps

Step 6c



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.



Fire sidebox is used as exmaple, Thunder sidebox follows the same steps

Step 7a

Place the chinrest to the bottome 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.





space in between the end

of tailpiece, allowing tailpiece to lift up with

some angle



Use the following part to create the space if needed

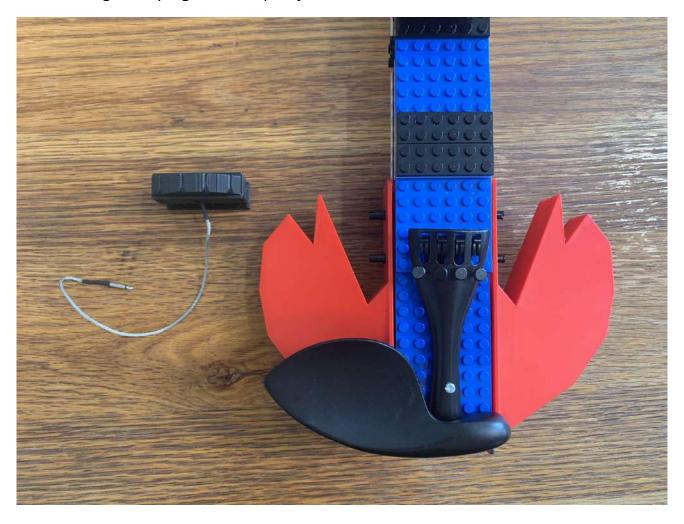




Fire sidebox is used as exmaple, Thunder sidebox follows the same steps

Step 8a

Install bridge and plug in sound pick jack

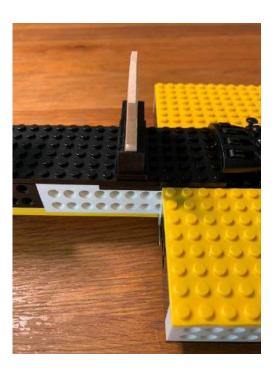


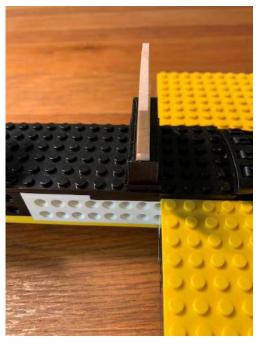


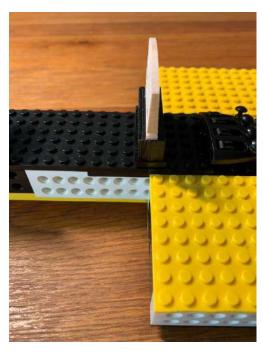
Fire sidebox is used as exmaple, Thunder sidebox follows the same steps

Step 8b

Postion of violin bridge varies from sizes







4/4 size

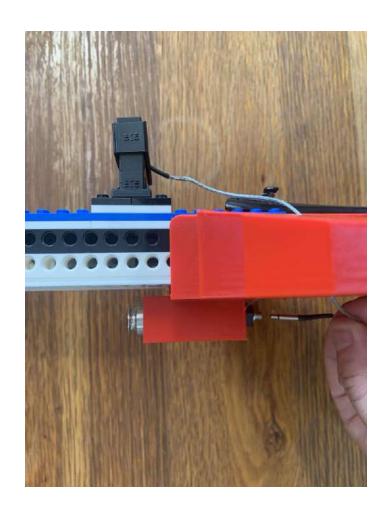
1 stud to the Yellow edge 3/4 size

0 stud to the Yellow edge 1/2 size

-1 stud to the Yellow edge



Step 8Fire sidebox is used as exmaple, Thunder sidebox follows the same steps **Step 8c**

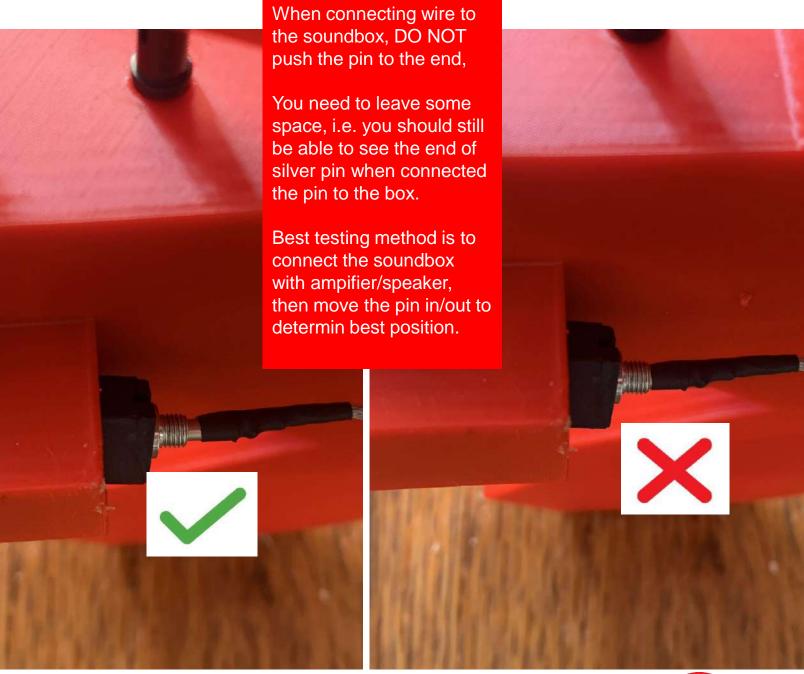






Fire sidebox is used as exmaple, Thunder sidebox follows the same steps

No-sound issue debug



Install string and tune

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Attach bridge/soundbox to violin body

Note

