

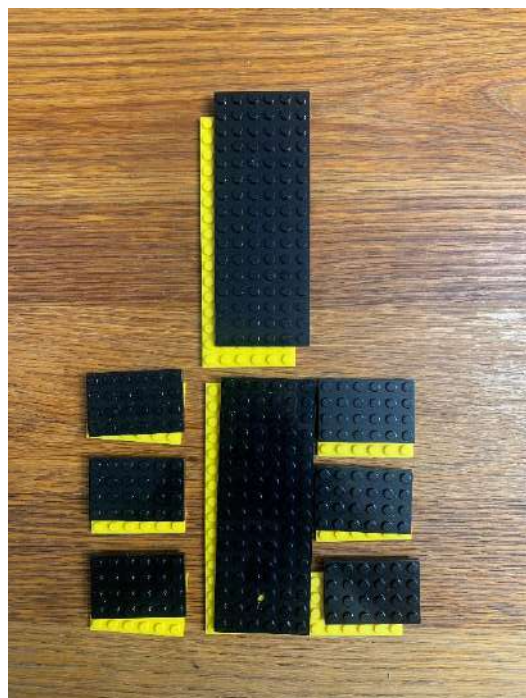
# Step 1 – Determine Design and Size

Determine the color/design and size of your violin.

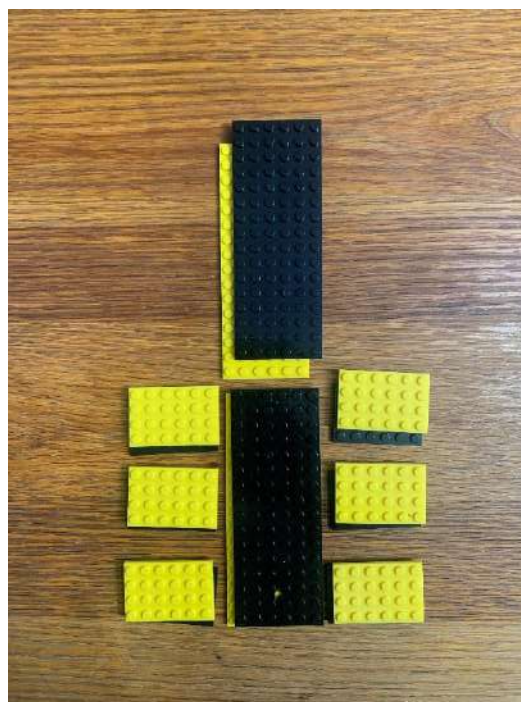
In general, three types of plates in two colors (primary and secondary color) are included, therefore you need to determine the color/design of your violin first.

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**



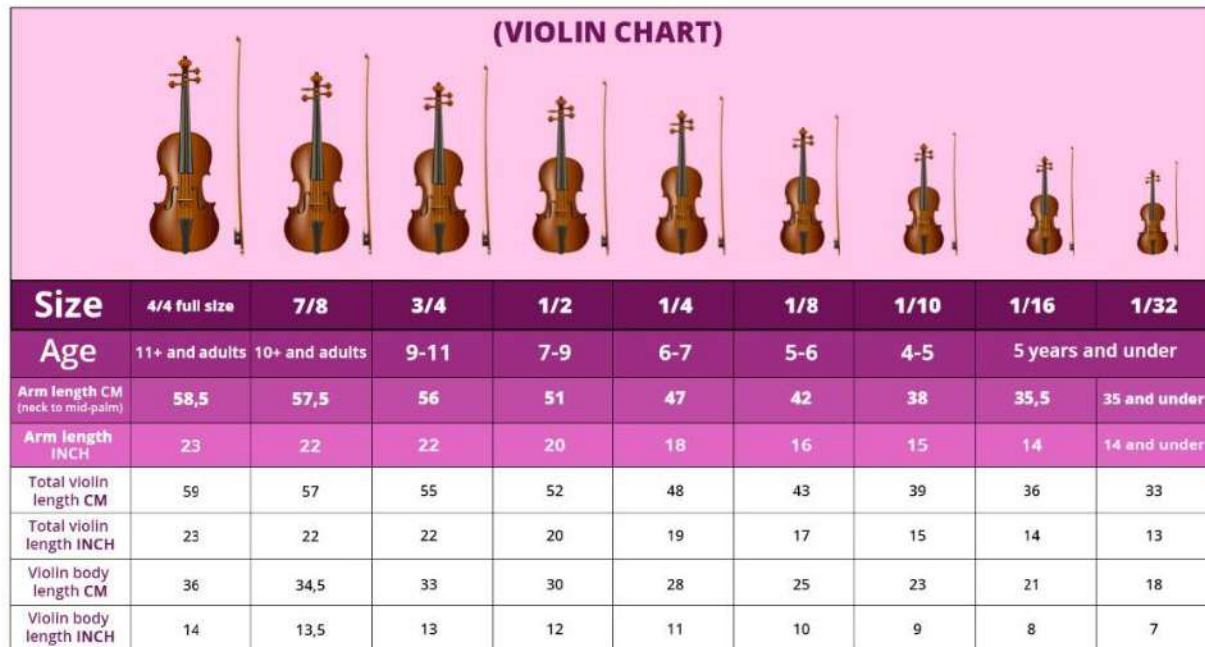
There may be other colour combinations, you can even use your own lego pieces as long as it is the same spec as the corresponding one in this document.



# 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

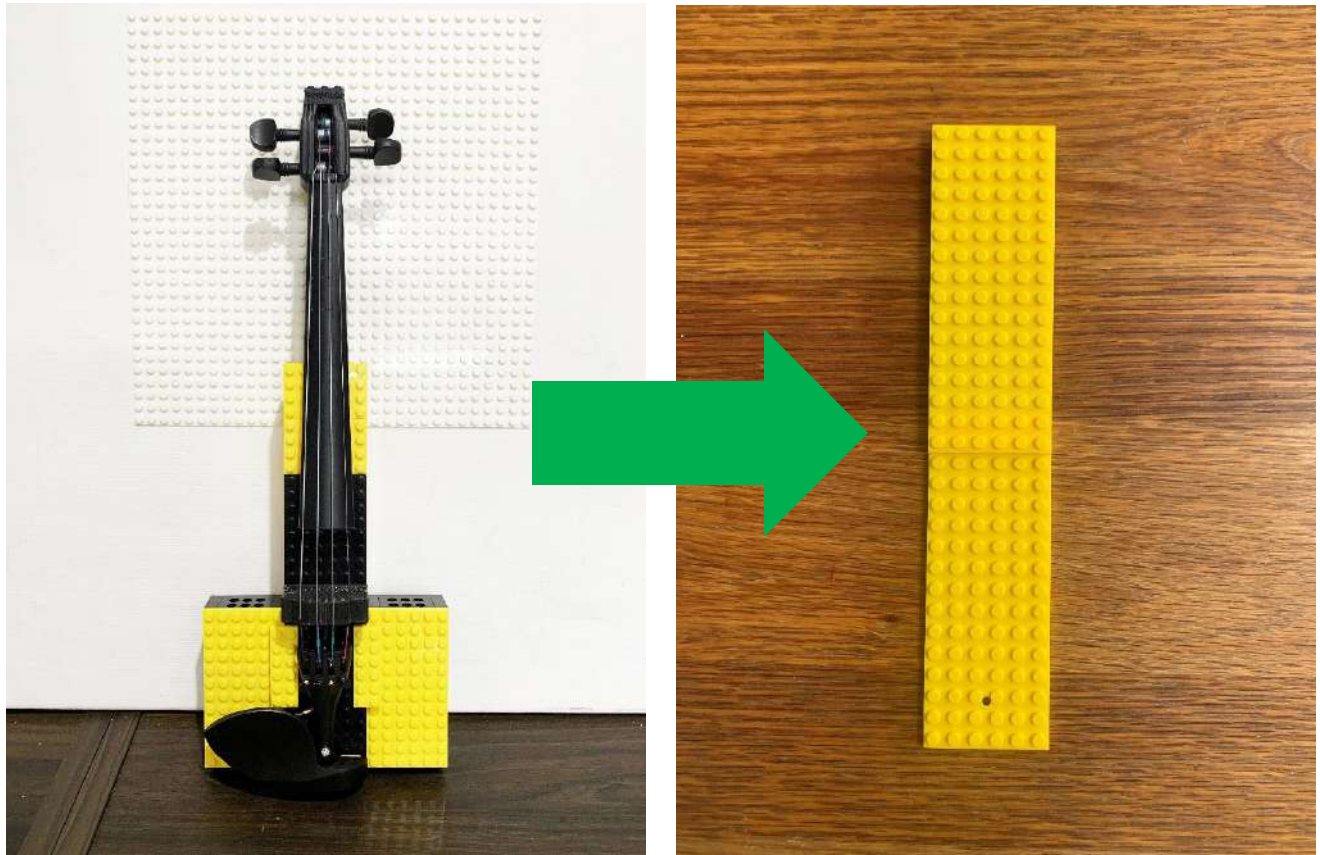


## Step 2

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.

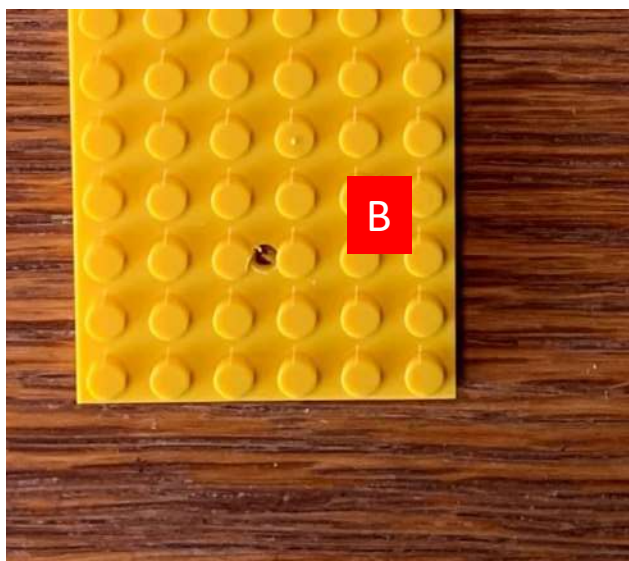
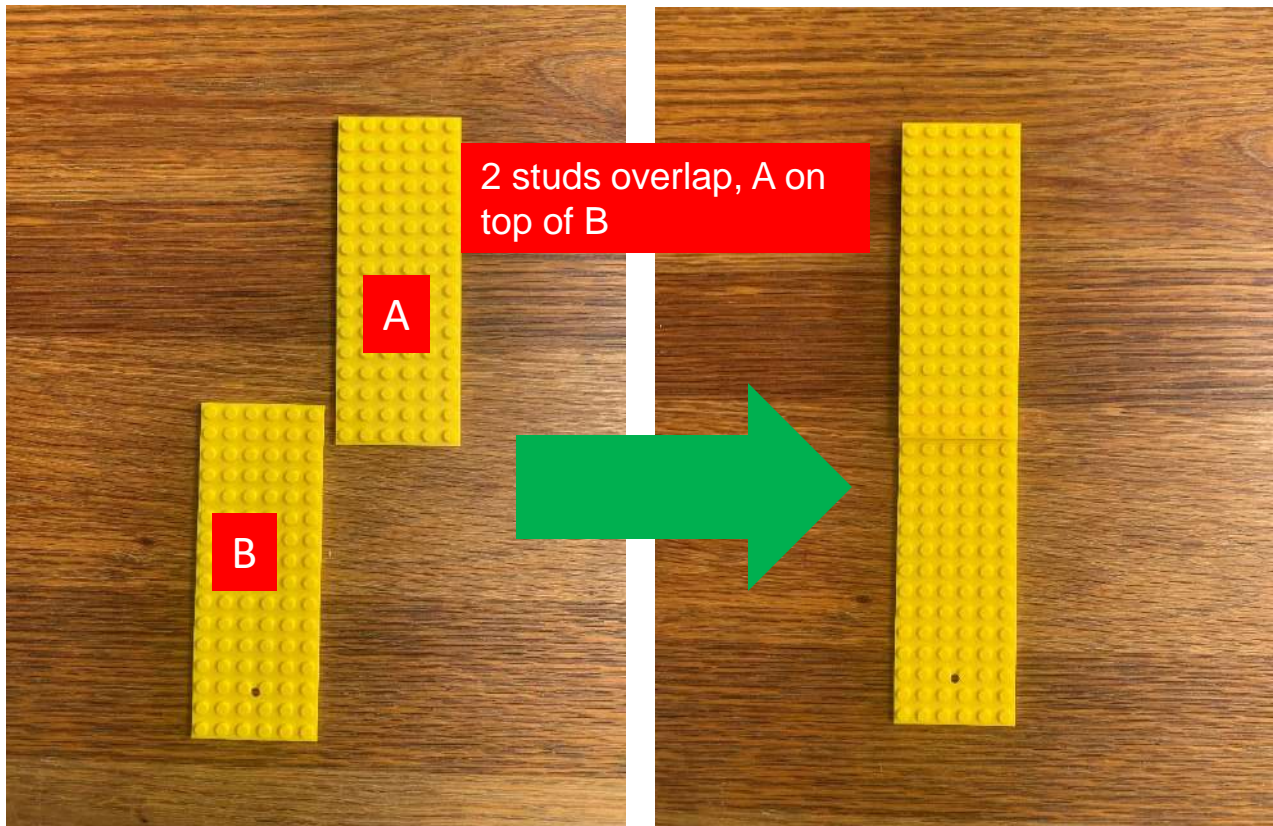


## Step 2

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.

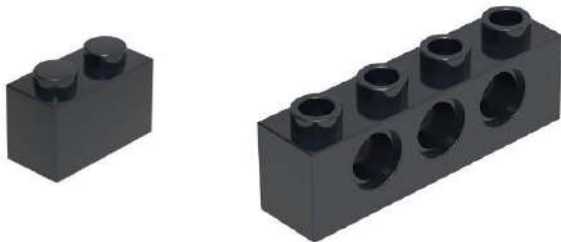
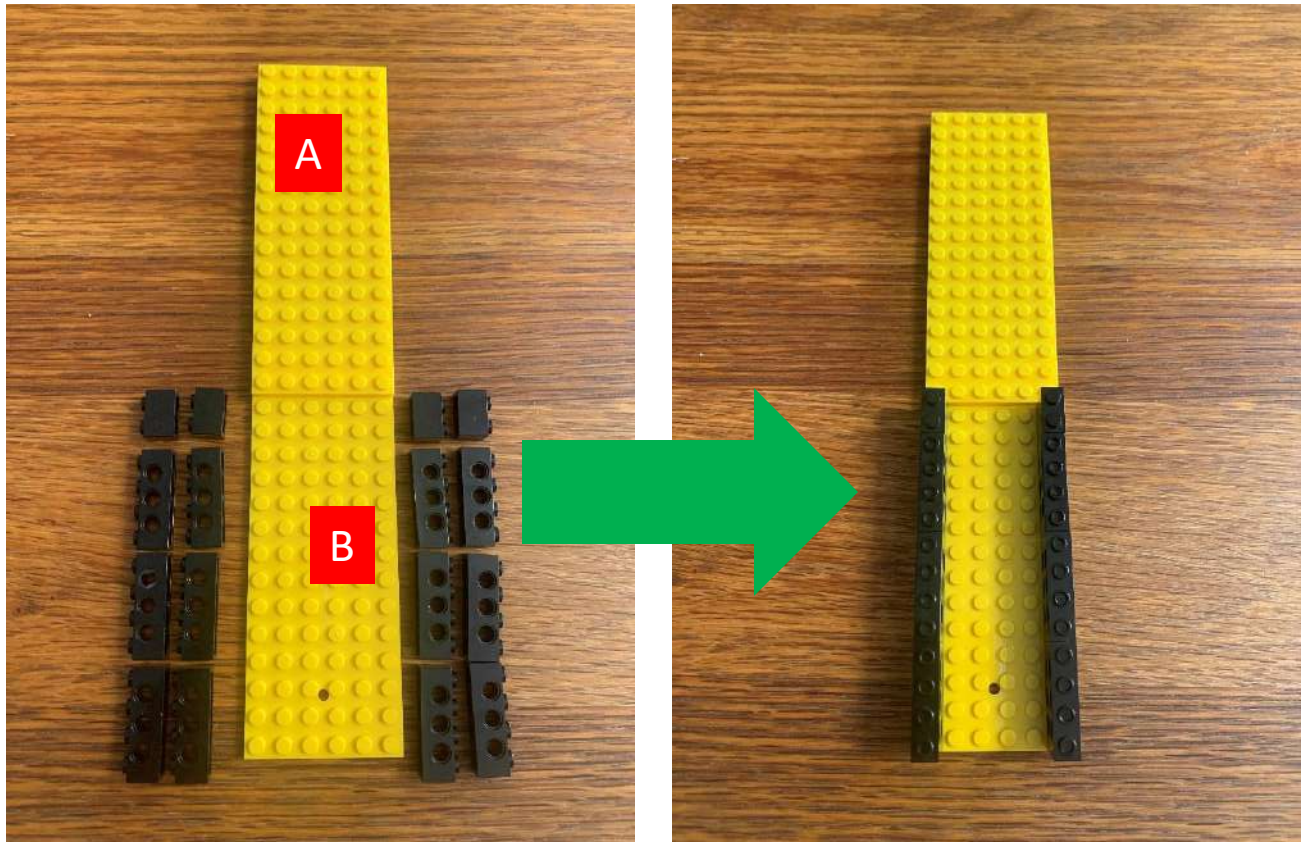


# Step 2

Build spine of the violin.

1/8 size spine

## Step 2b – Conenct A and B

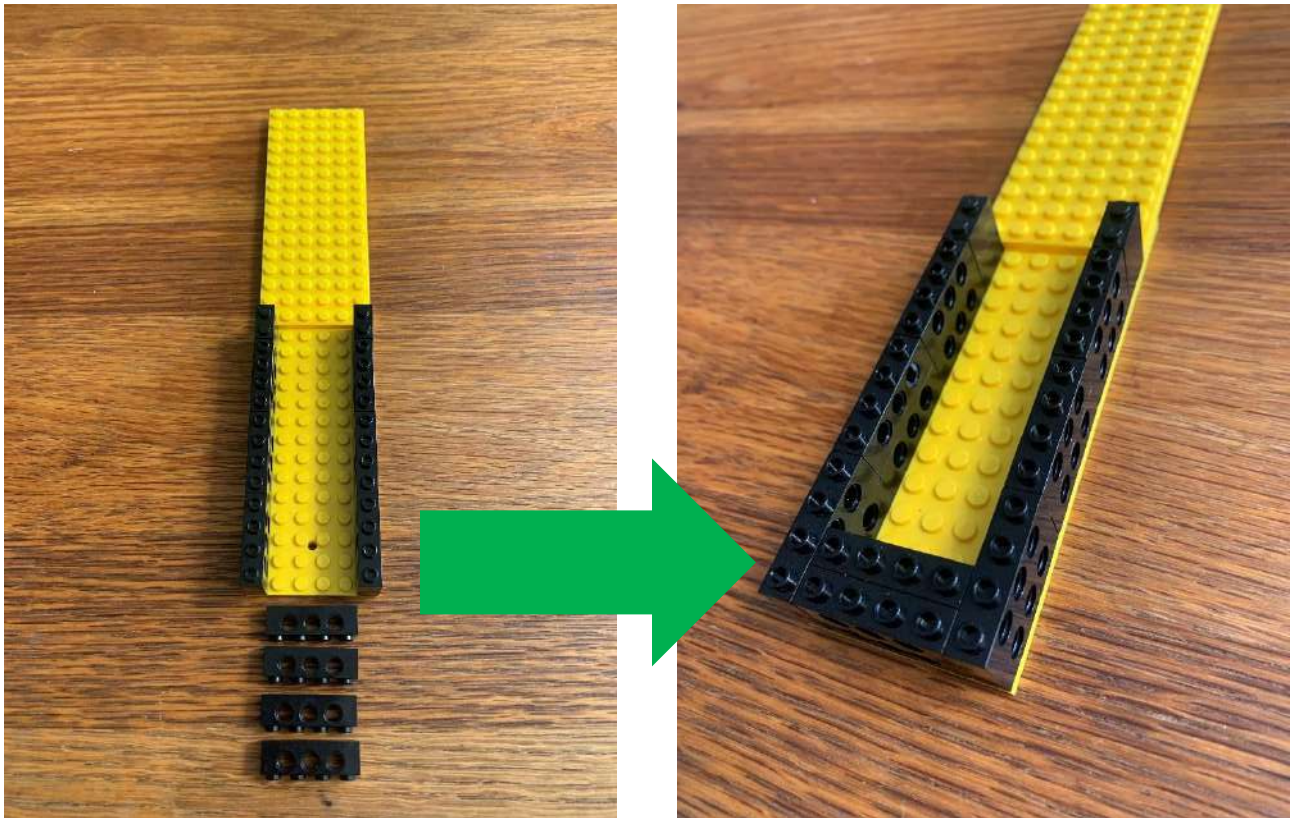


## Step 2

Build spine of the violin.

1/8 size spine

### Step 2c

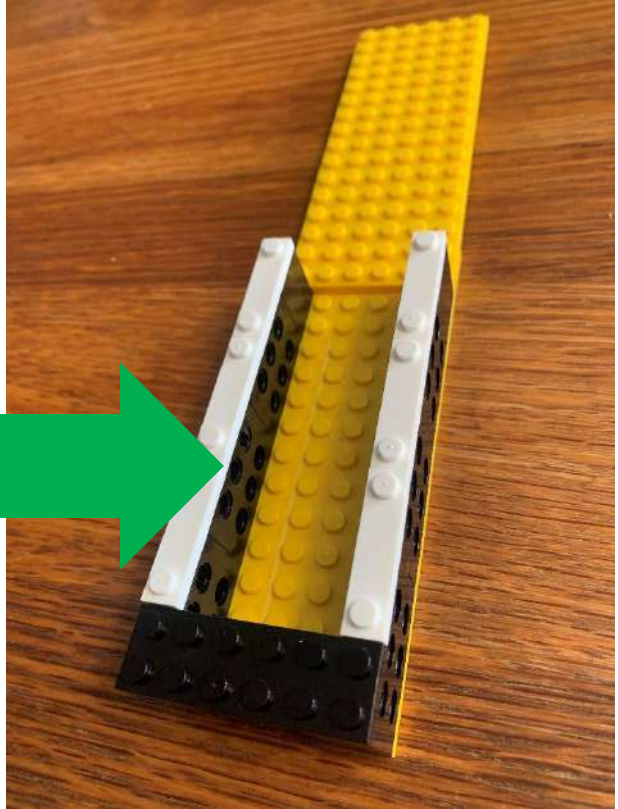
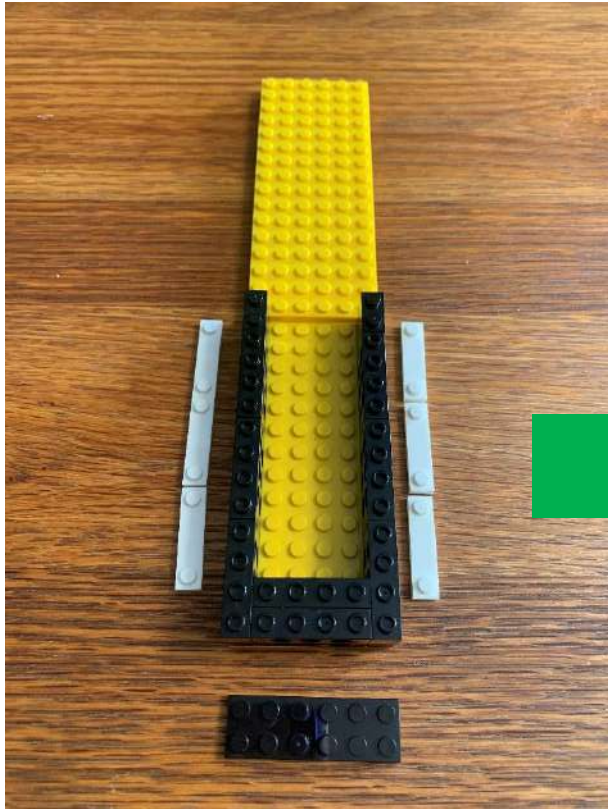


# Step 2

Build spine of the violin.

1/8 size spine

## Step 2d



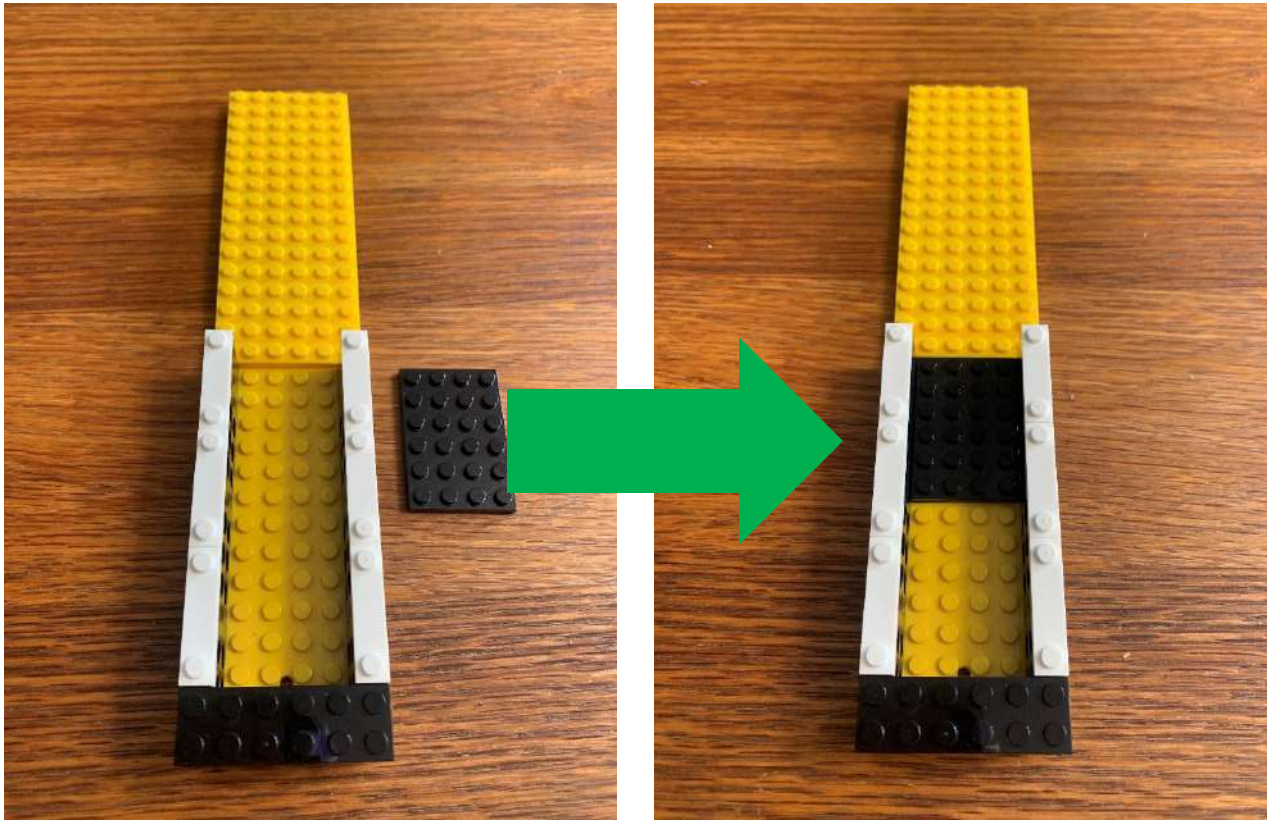


## Step 2

Build spine of the violin.

1/8 size spine

### Step 2e

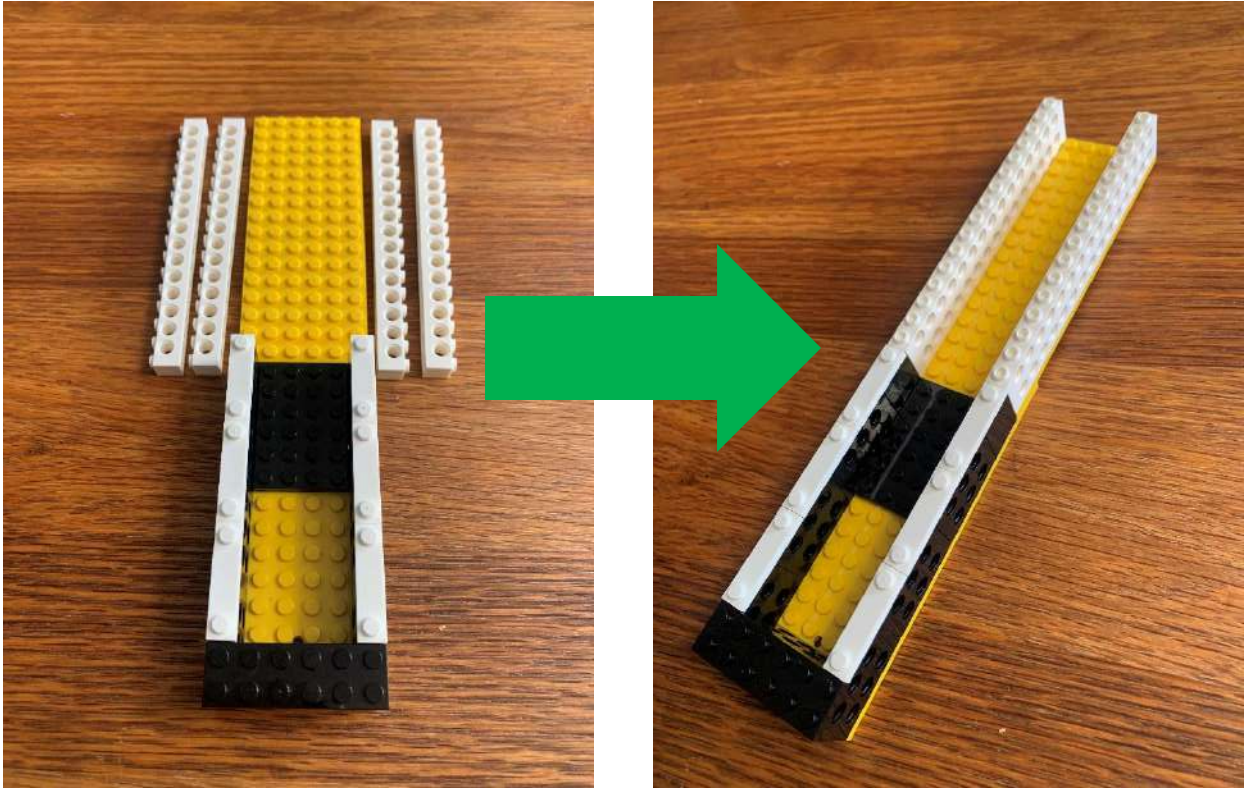


## Step 2

Build spine of the violin.

1/8 size spine

### Step 2f

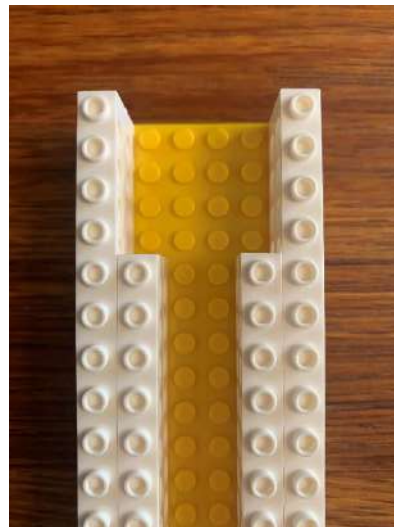
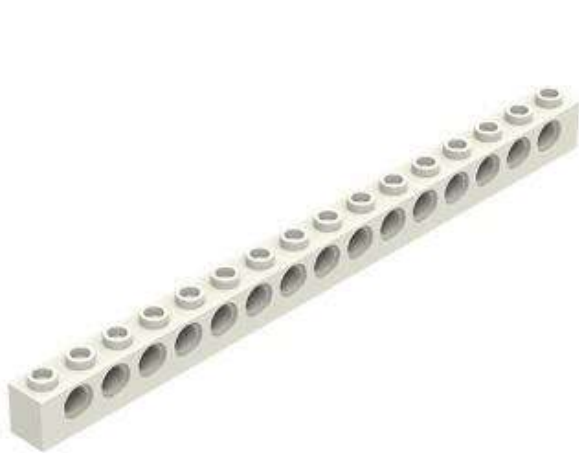
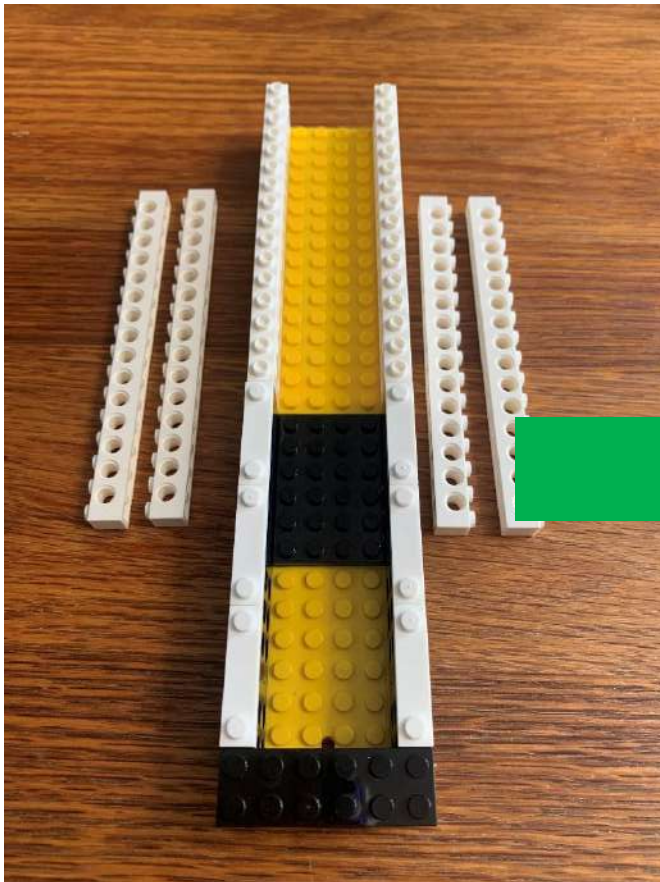


# Step 2

Build spine of the violin.

1/8 size spine

## Step 2g

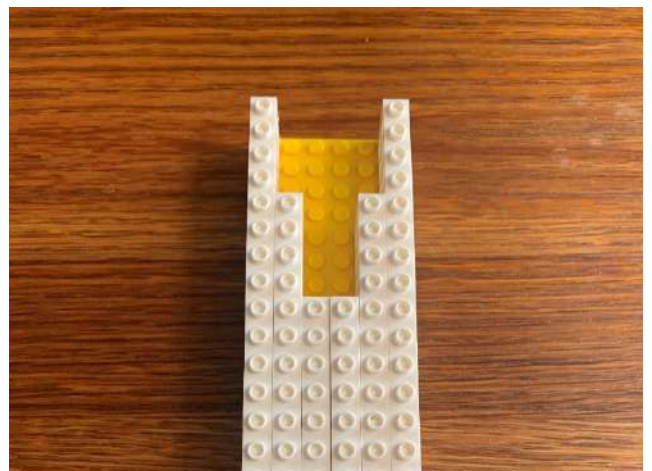
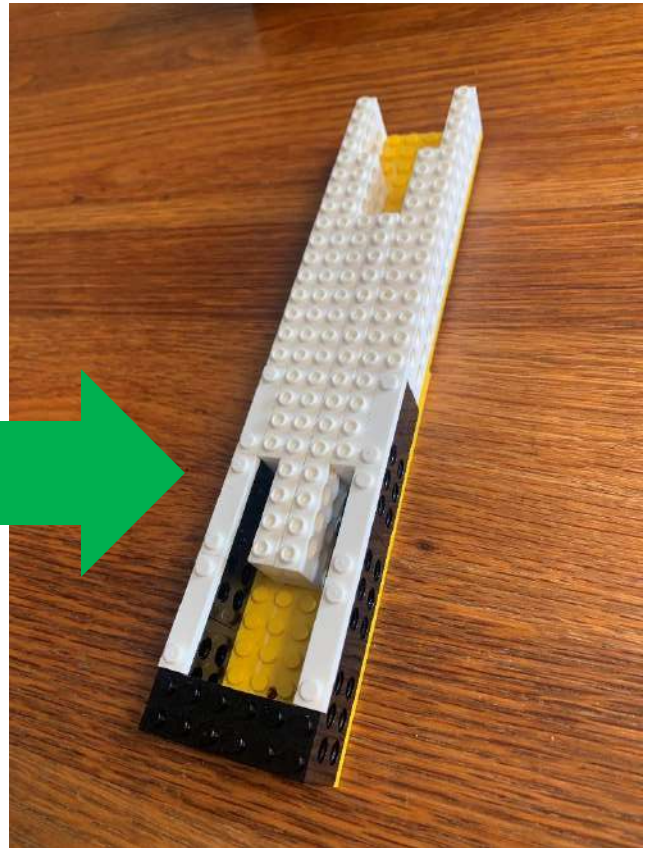
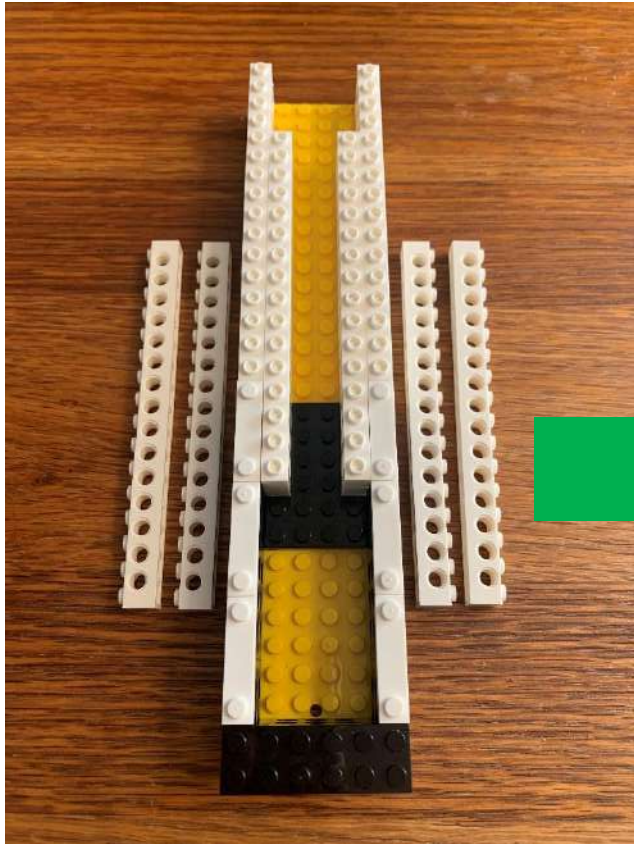


# Step 2

Build spine of the violin..

1/8 size spine

## Step 2h

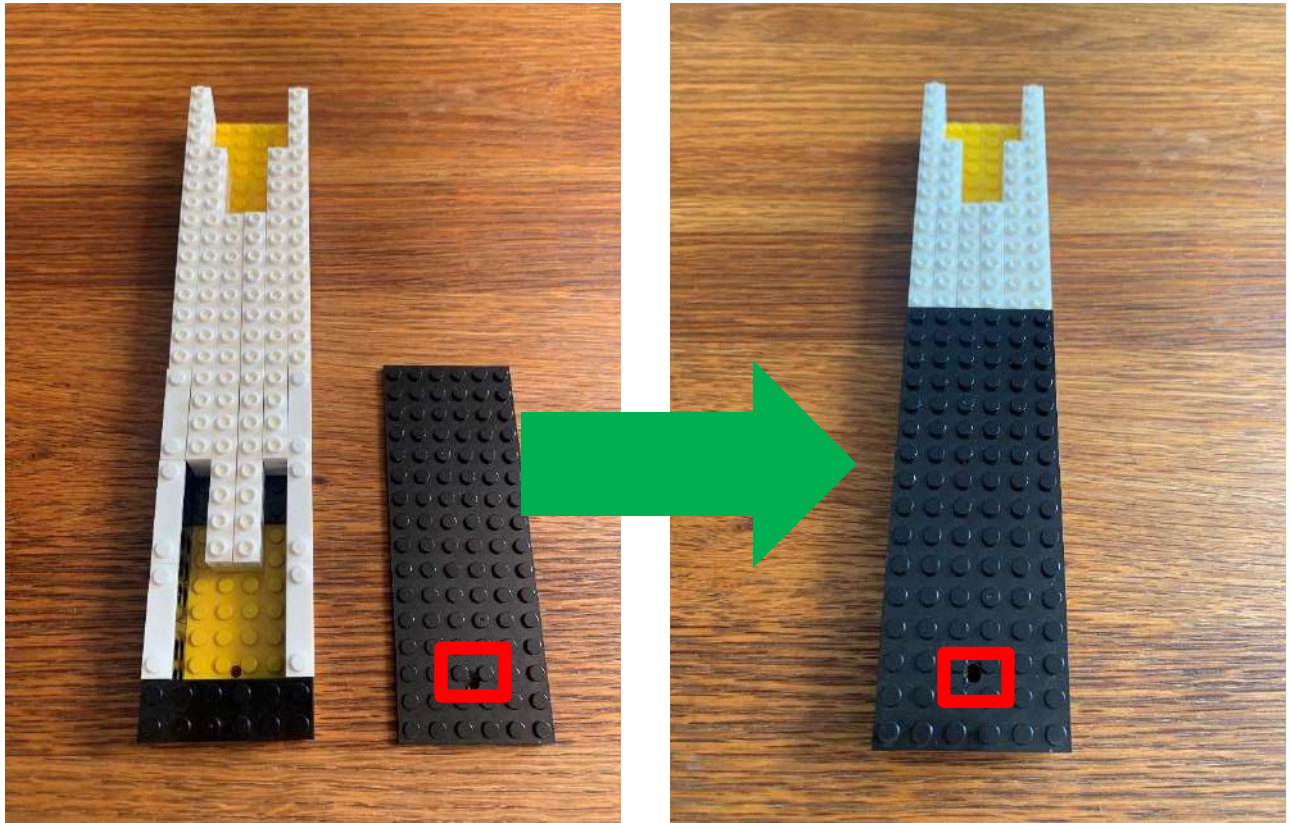


## Step 2

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.

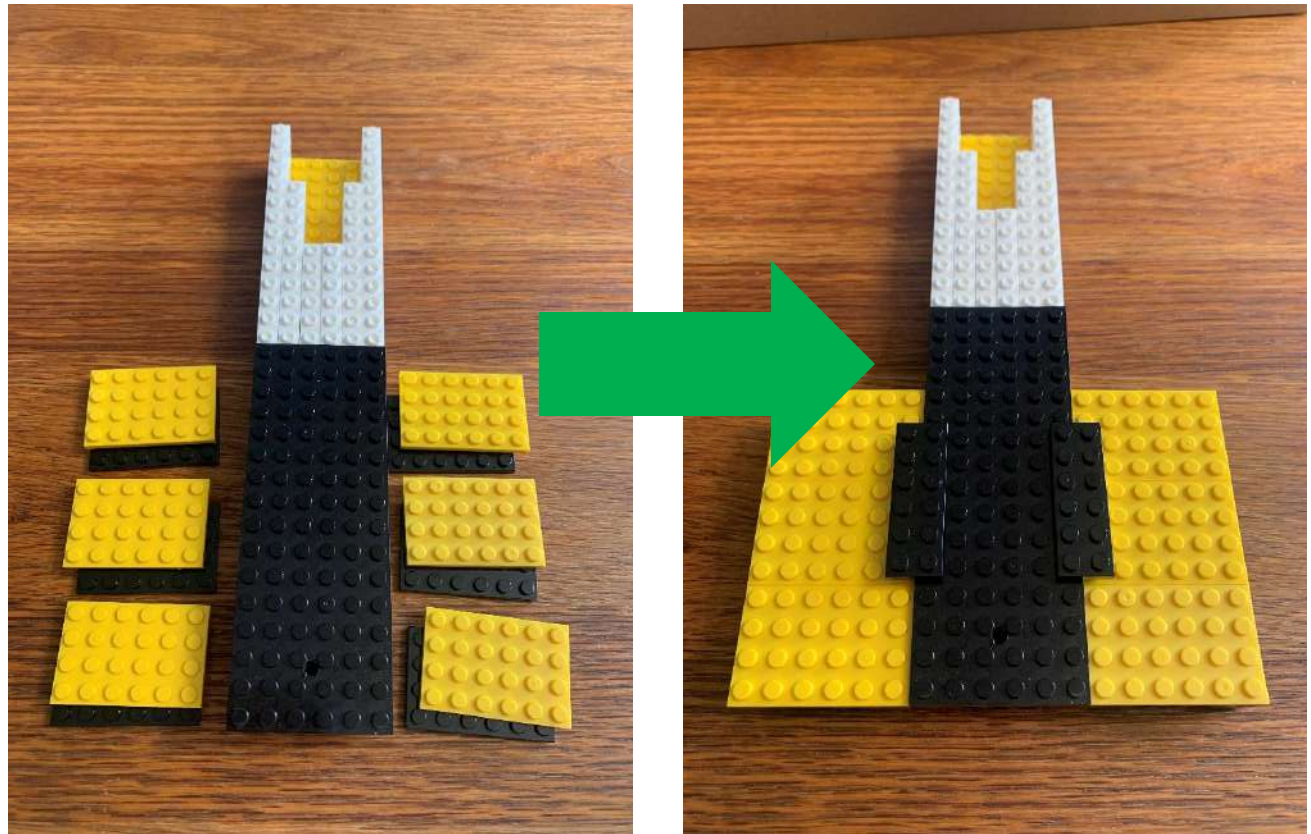


# Step 2

Build side boxes

1/8 size spine

Step 2j



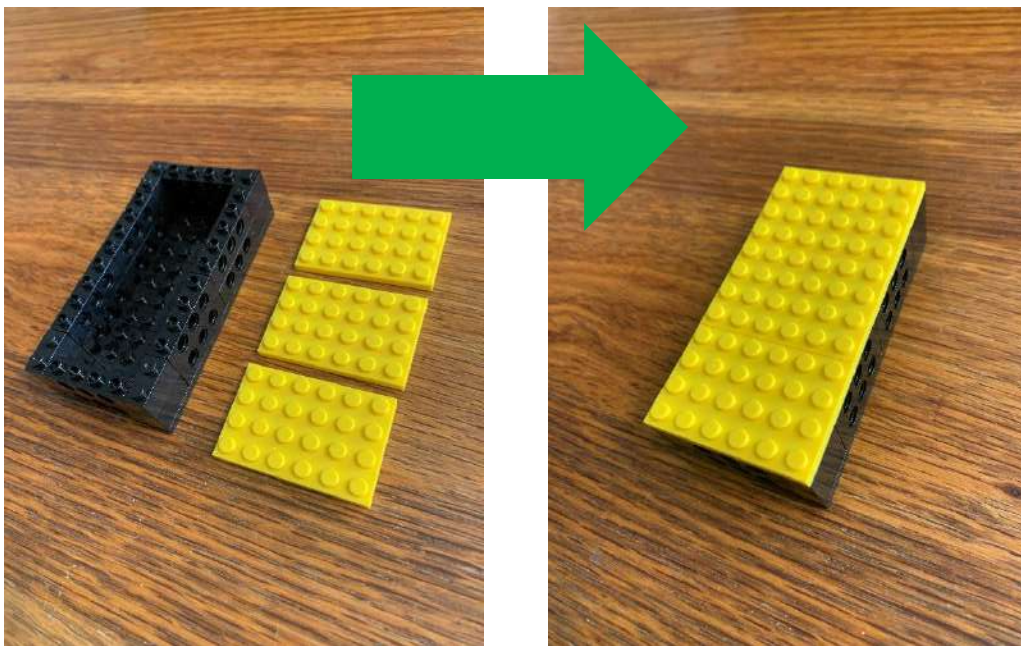
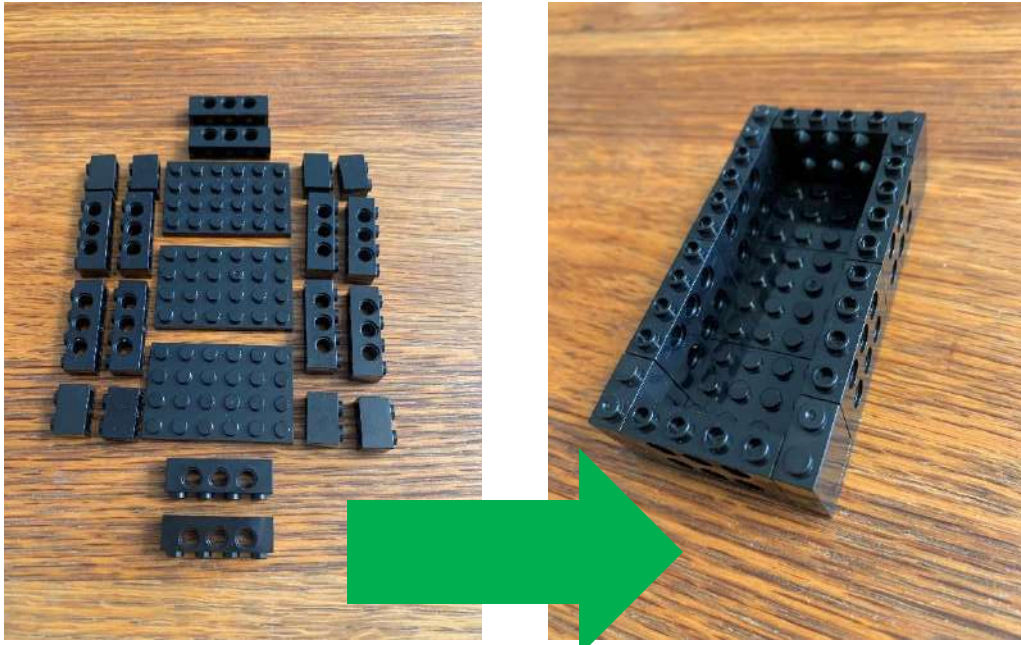
# Step 2

Build side boxes

1/8 size spine

## Step 2k

Repeat same procedures for second box

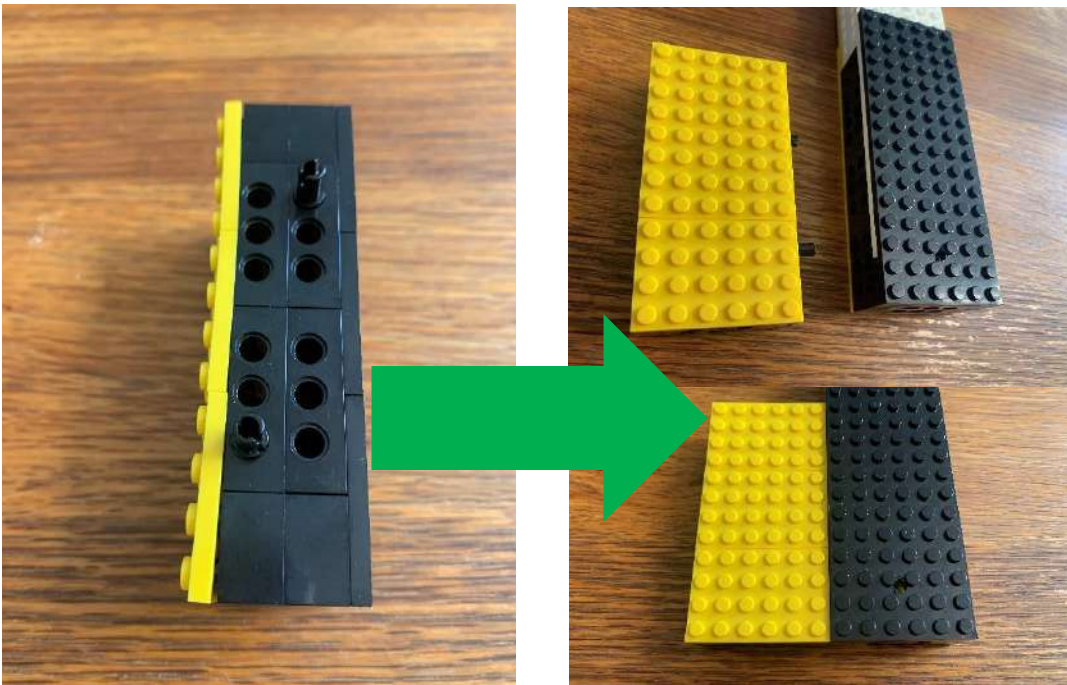
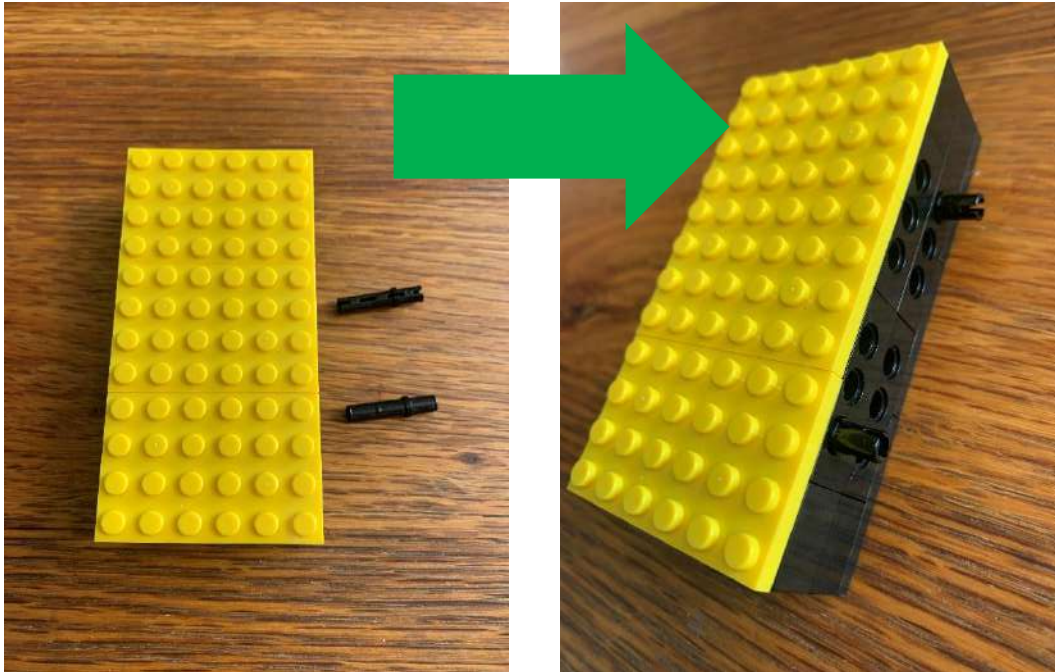


# Step 2

Build side boxes

1/8 size spine

## Step 2I – Plug sidebox into spine



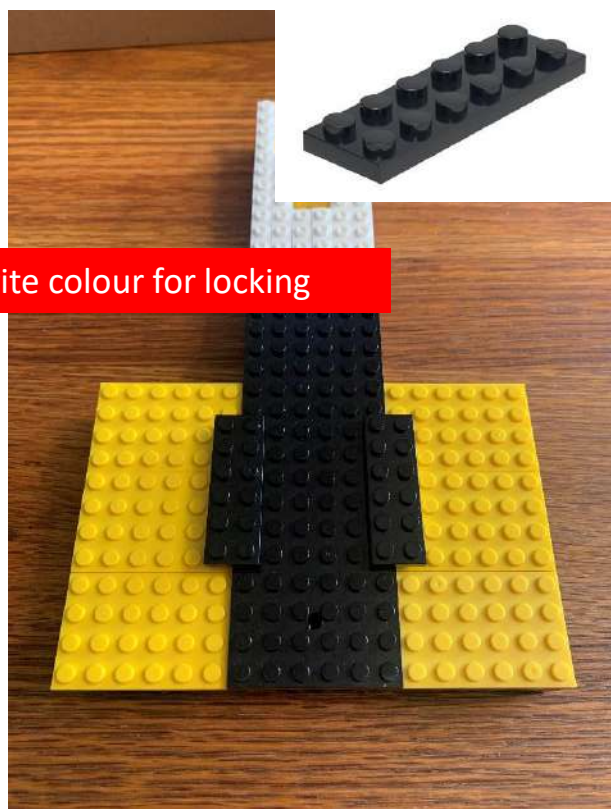
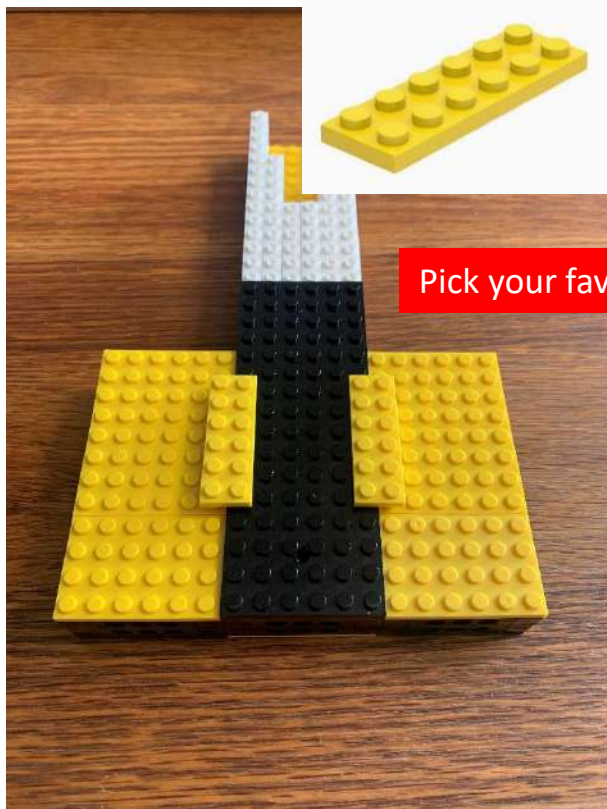
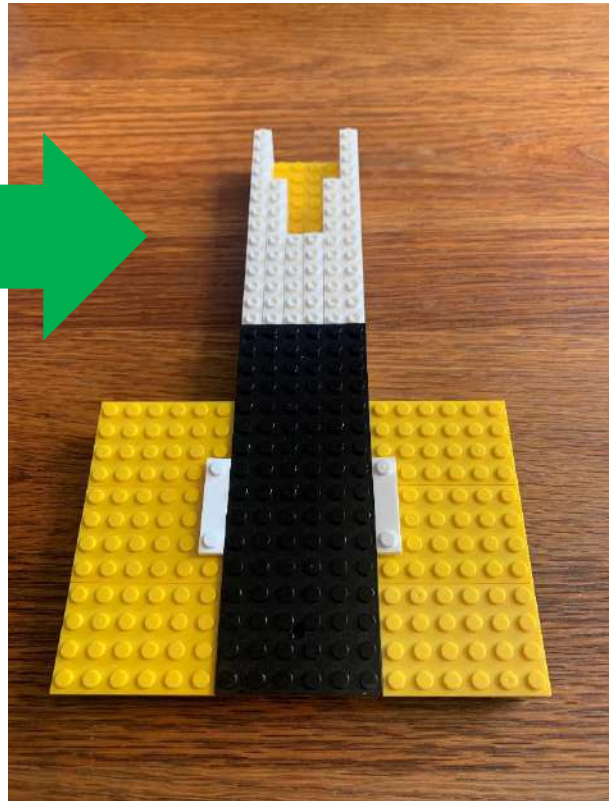
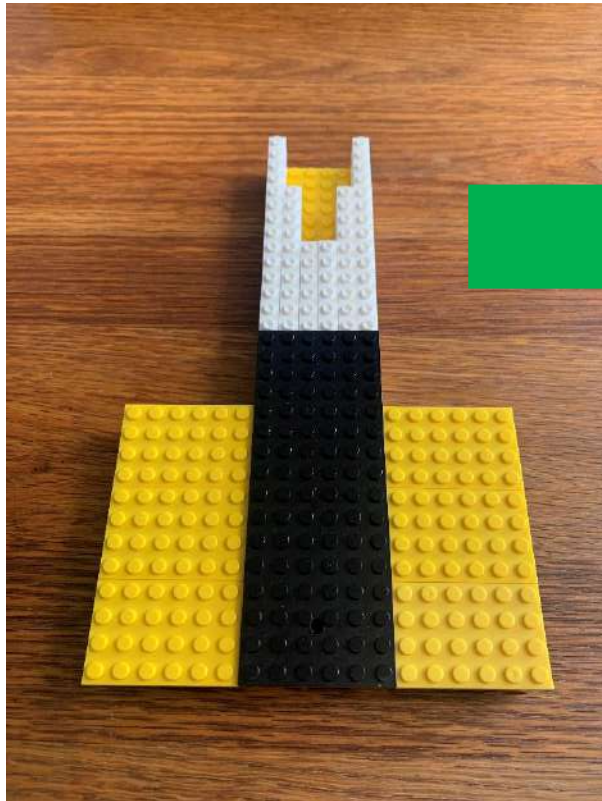


# Step 2

Build side boxes

1/8 size spine

## Step 2I – Lock front

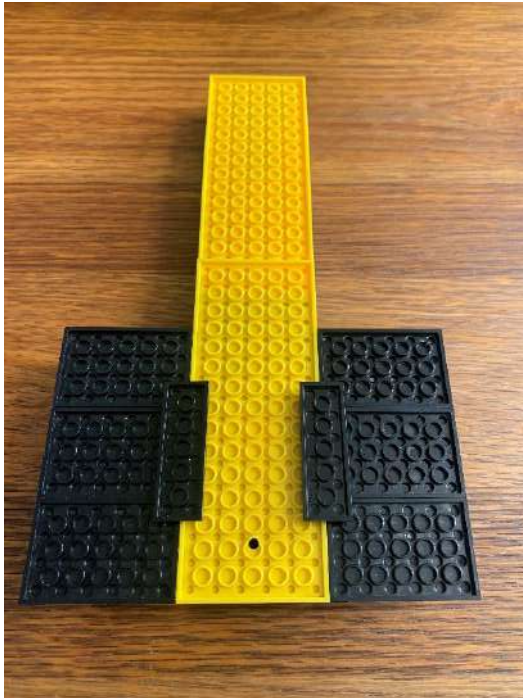


# Step 2

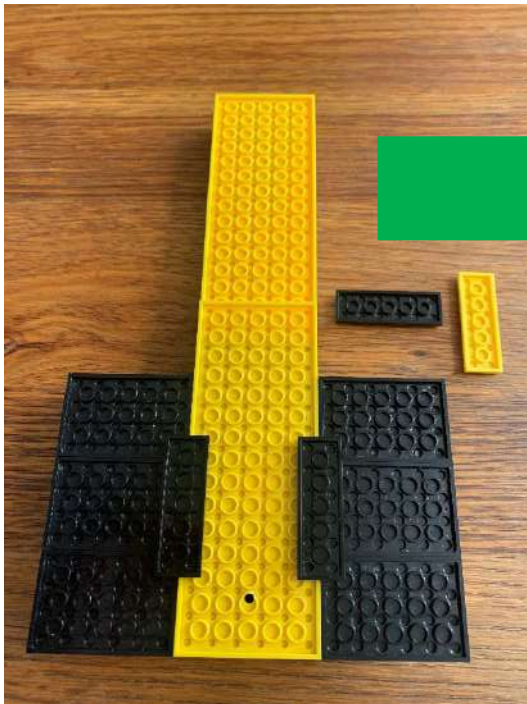
Build side boxes

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.

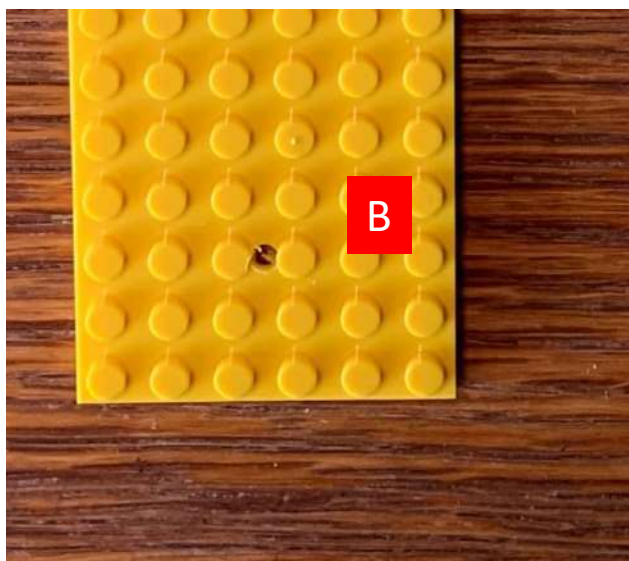
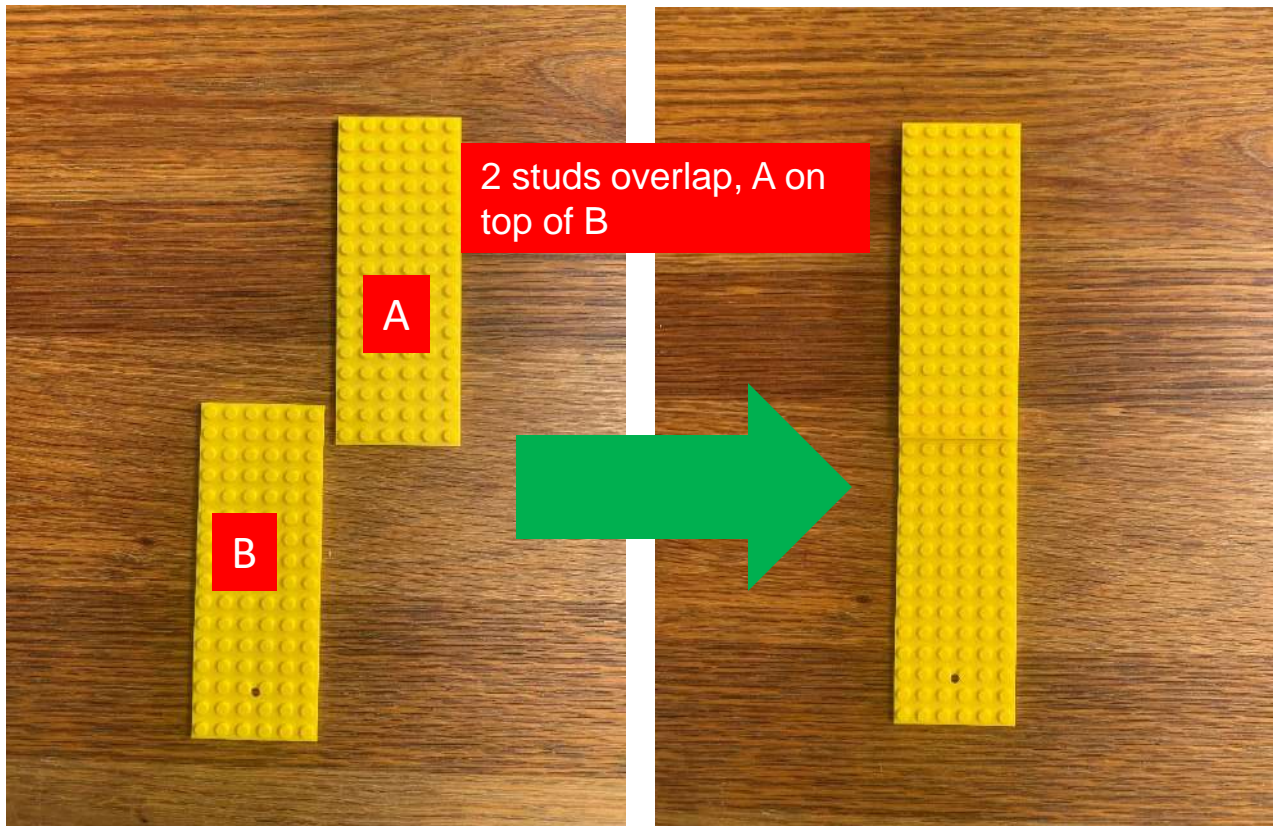


## Step 2

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.

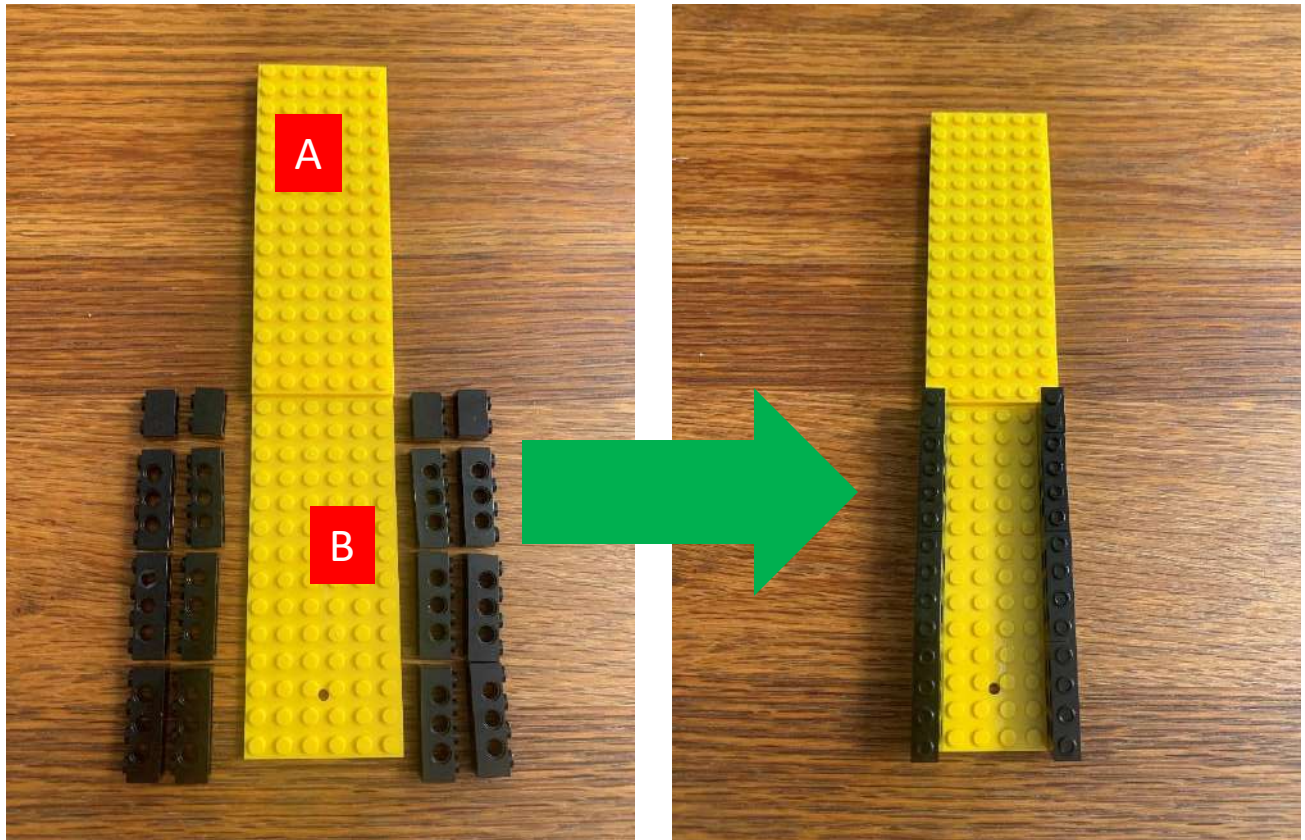


# Step 2

Build spine of the violin.

1/4 size spine

## Step 2b – Connect A and B

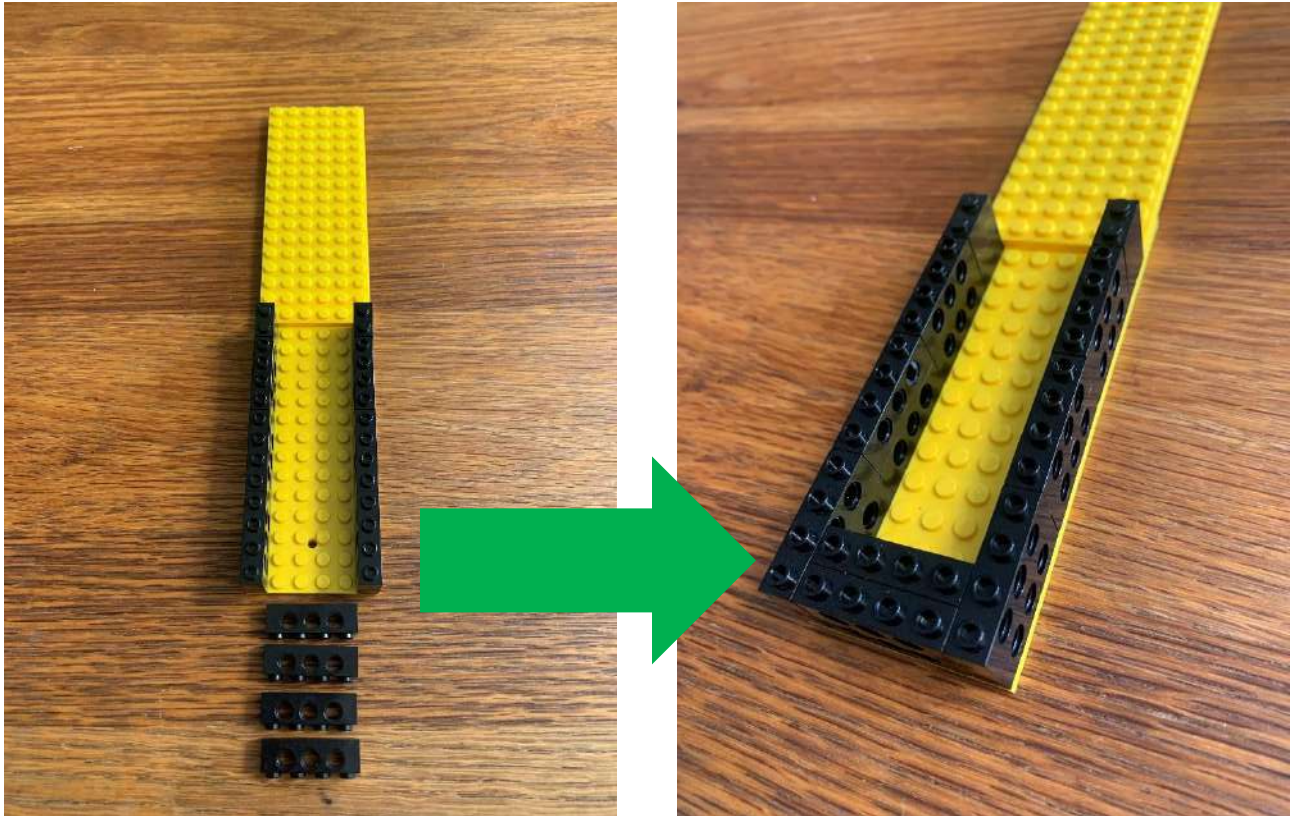


# Step 2

Build spine of the violin.

1/4 size spine

## Step 2c

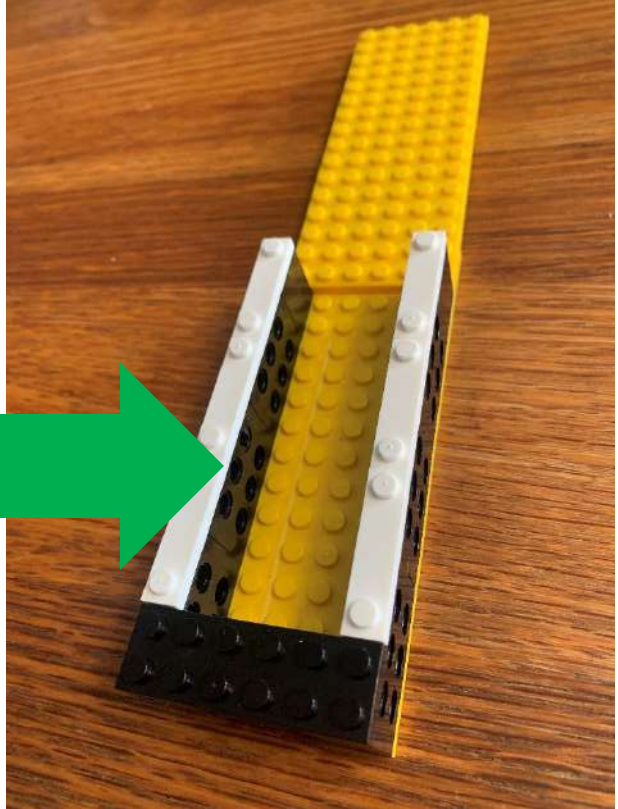
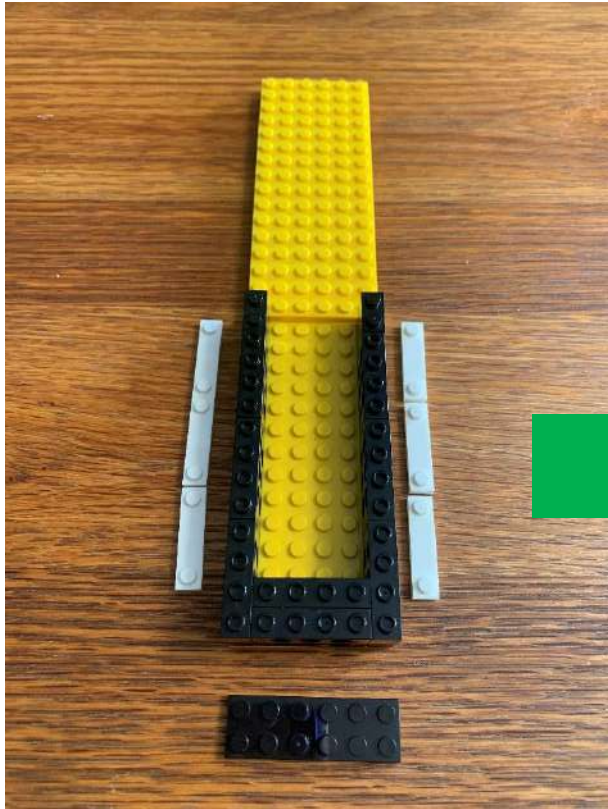


# Step 2

Build spine of the violin.

1/4 size spine

## Step 2d

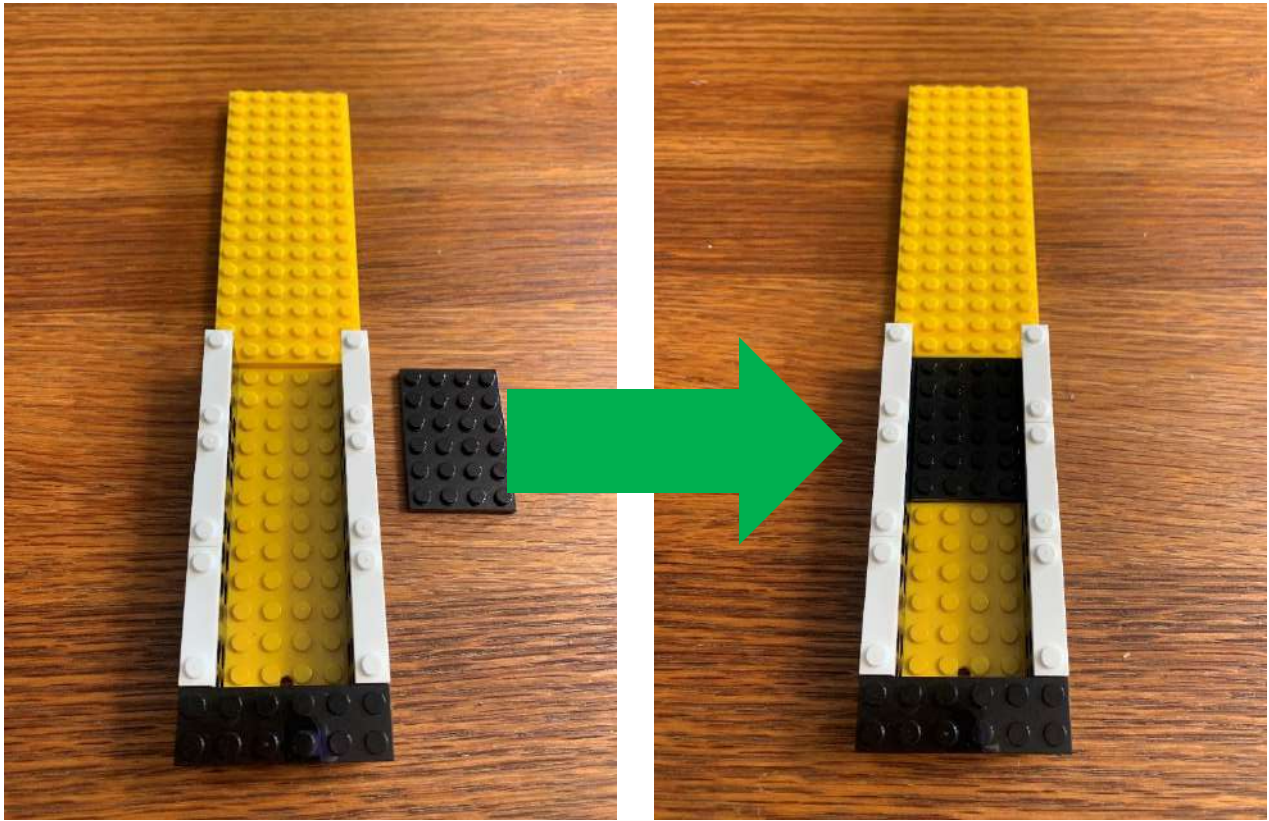


## Step 2

Build spine of the violin.

1/4 size spine

### Step 2e



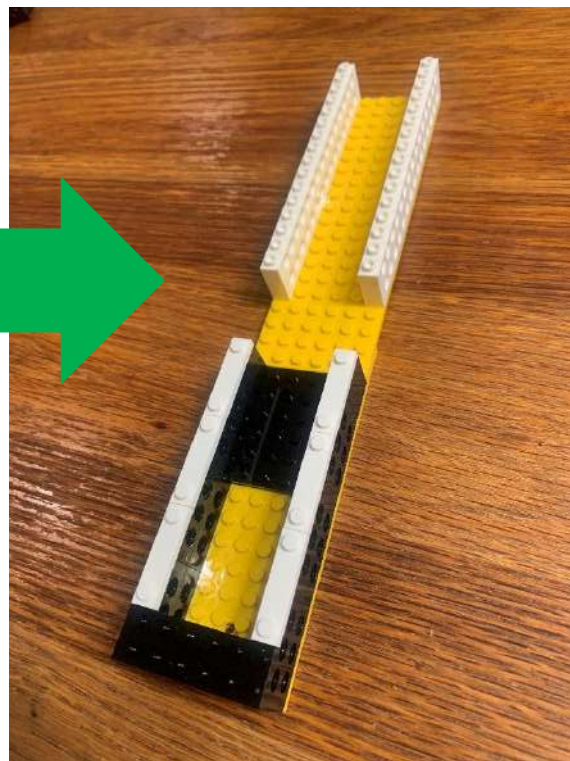
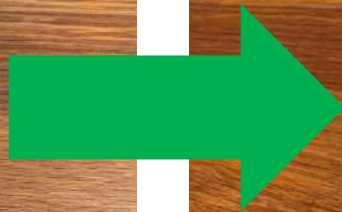
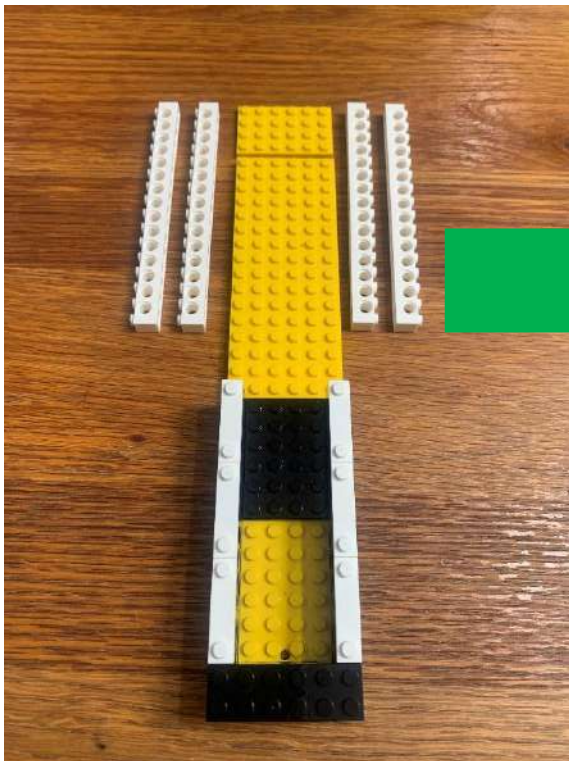
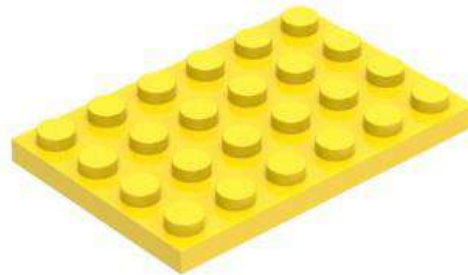
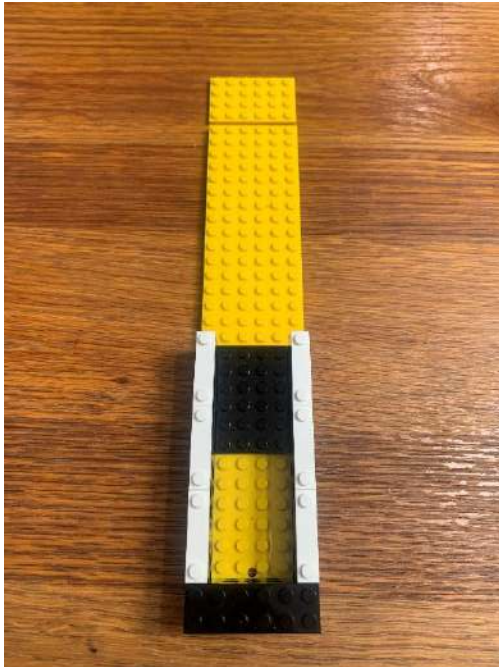


## Step 2

Build spine of the violin..

1/4 size spine

### Step 2f – Conenct 1/4 extension plate

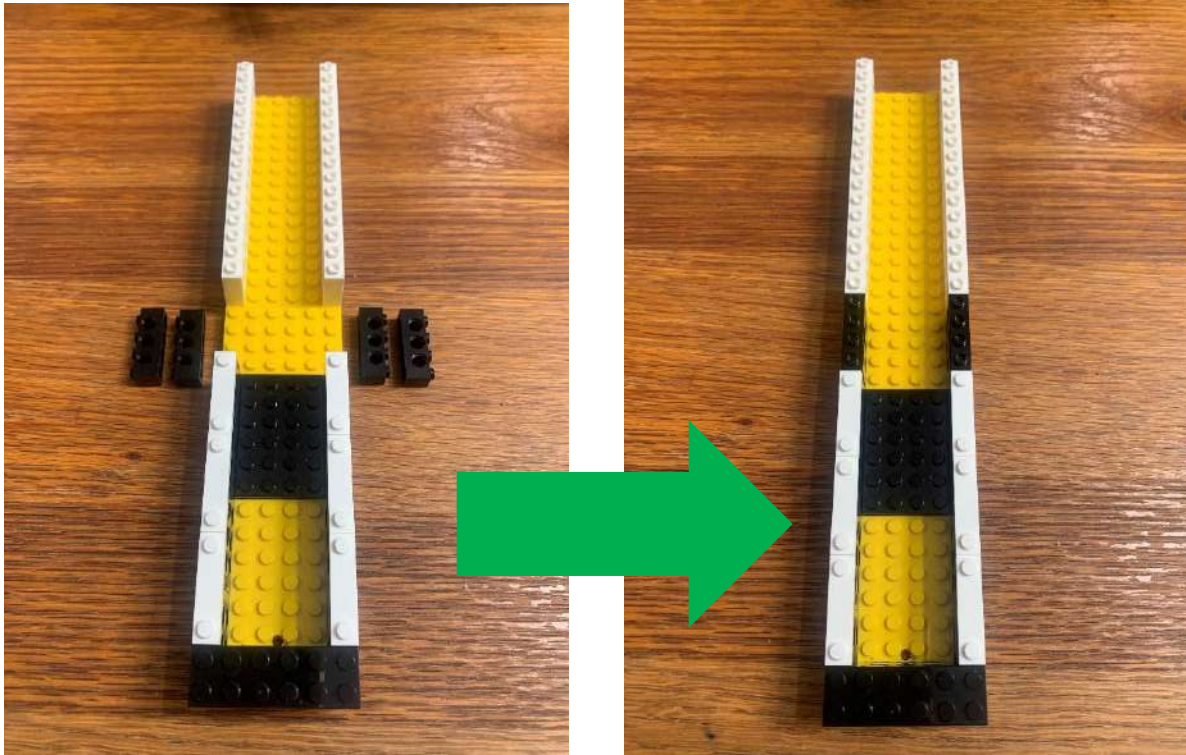


# Step 2

Build spine of the violin..

1/4 size spine

## Step 2g

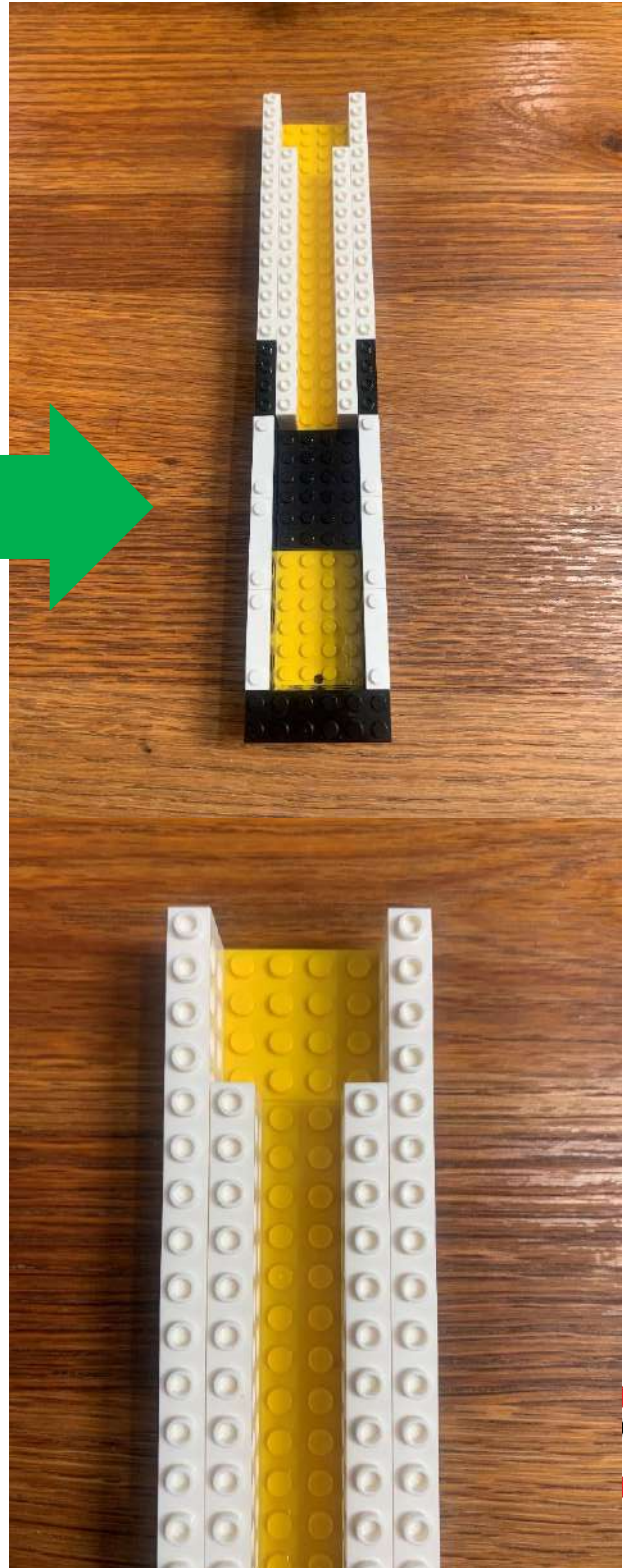
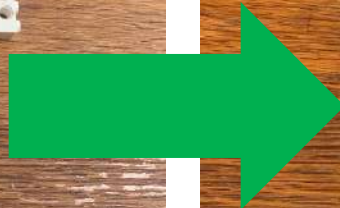
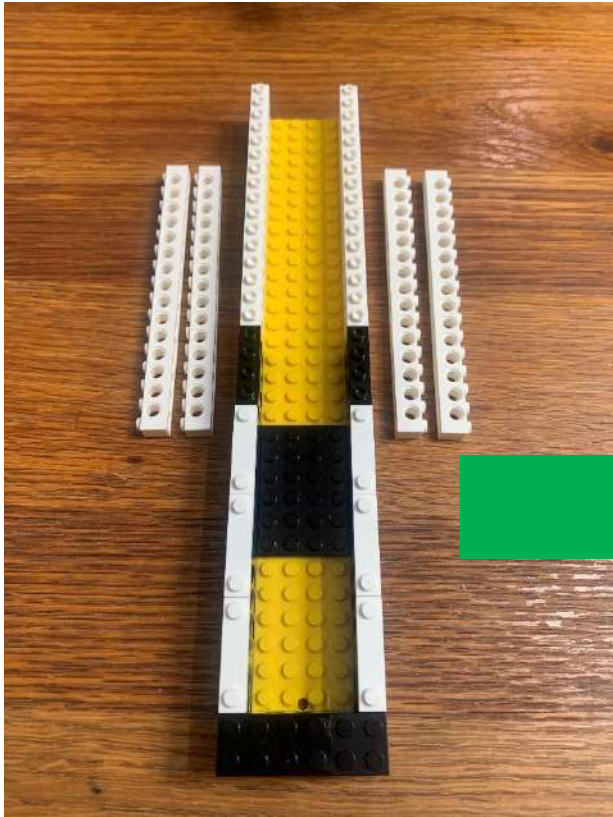


# Step 2

Build spine of the violin..

1/4 size spine

## Step 2h

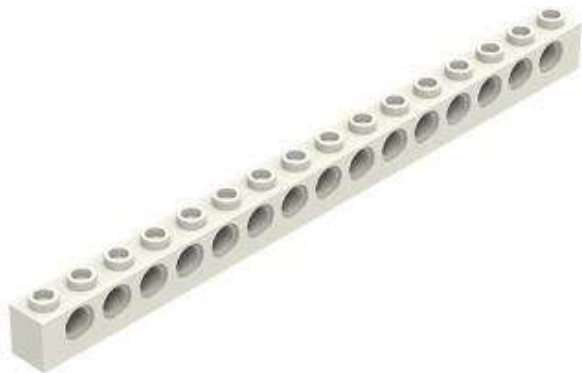
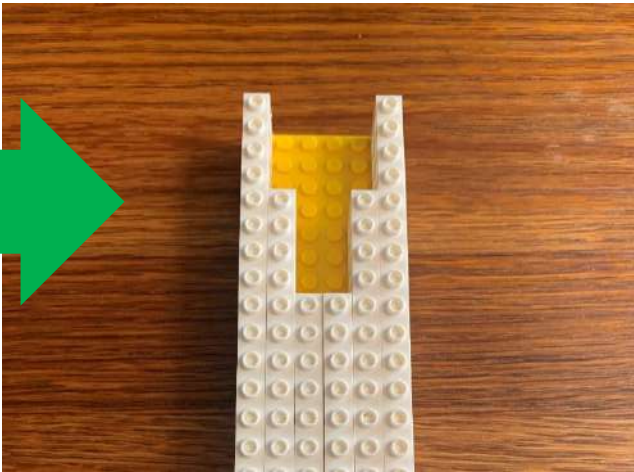
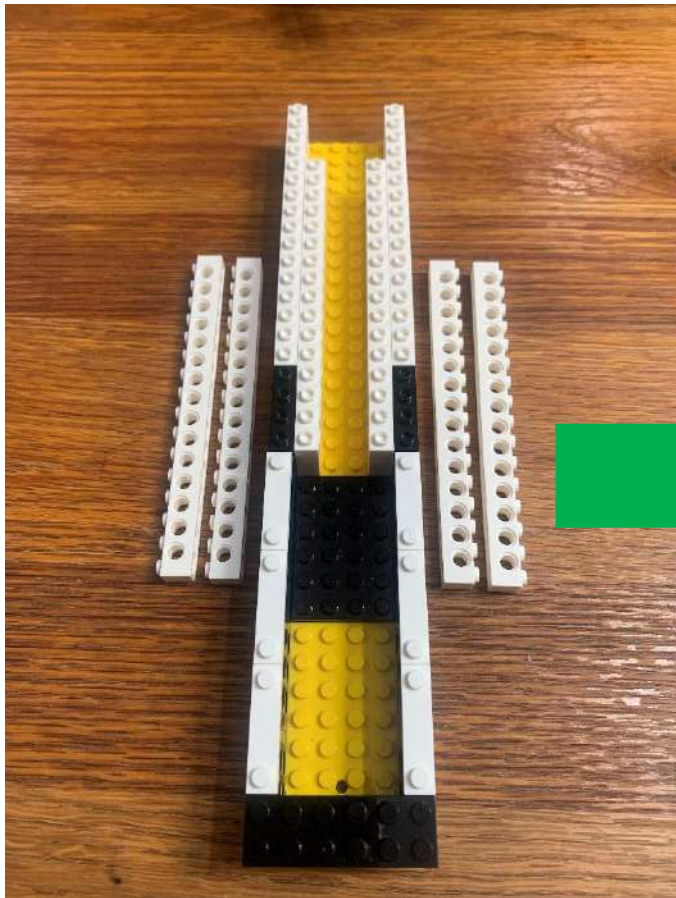


# Step 2

Build spine of the violin..

1/4 size spine

## Step 2i

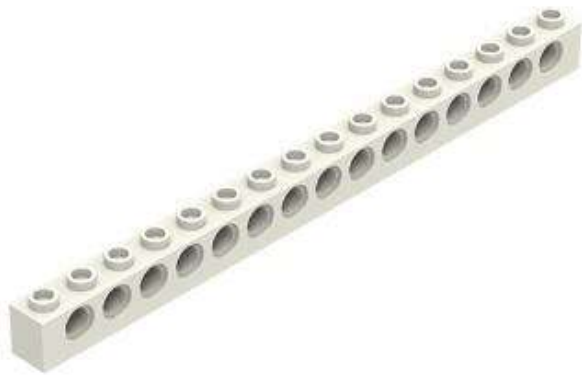
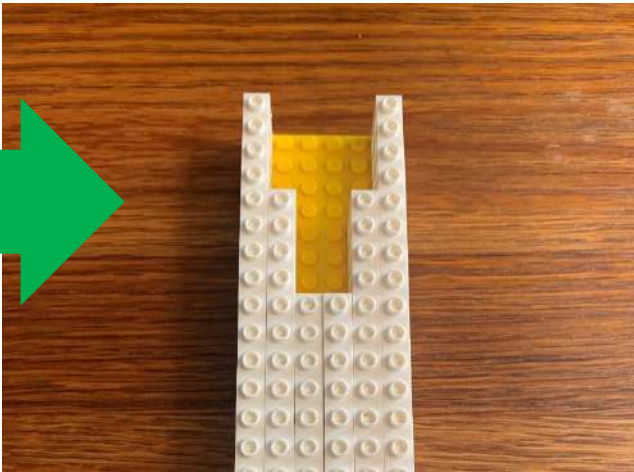
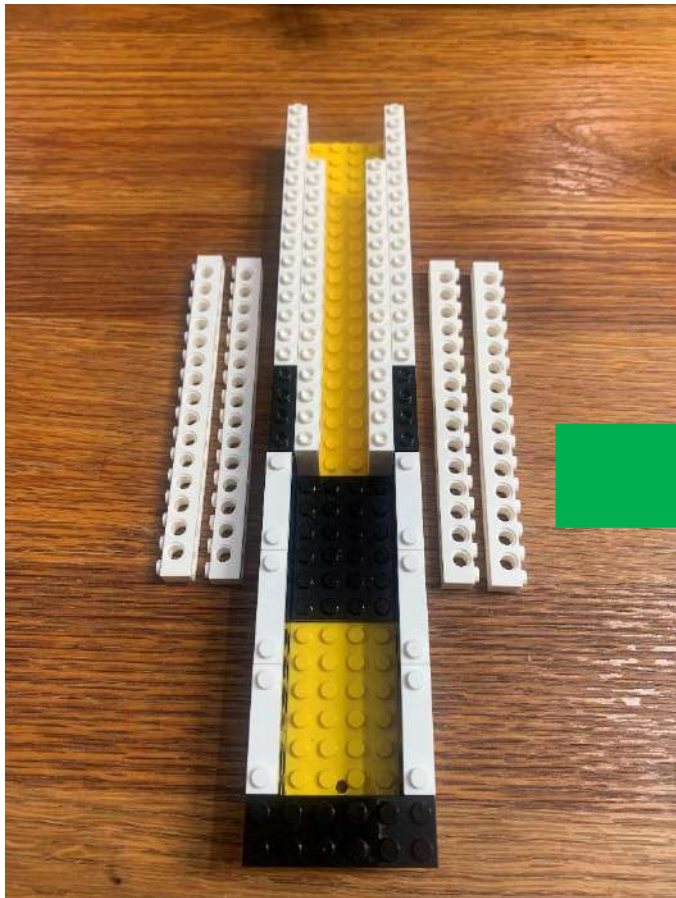


# Step 2

Build spine of the violin..

1/4 size spine

## Step 2j

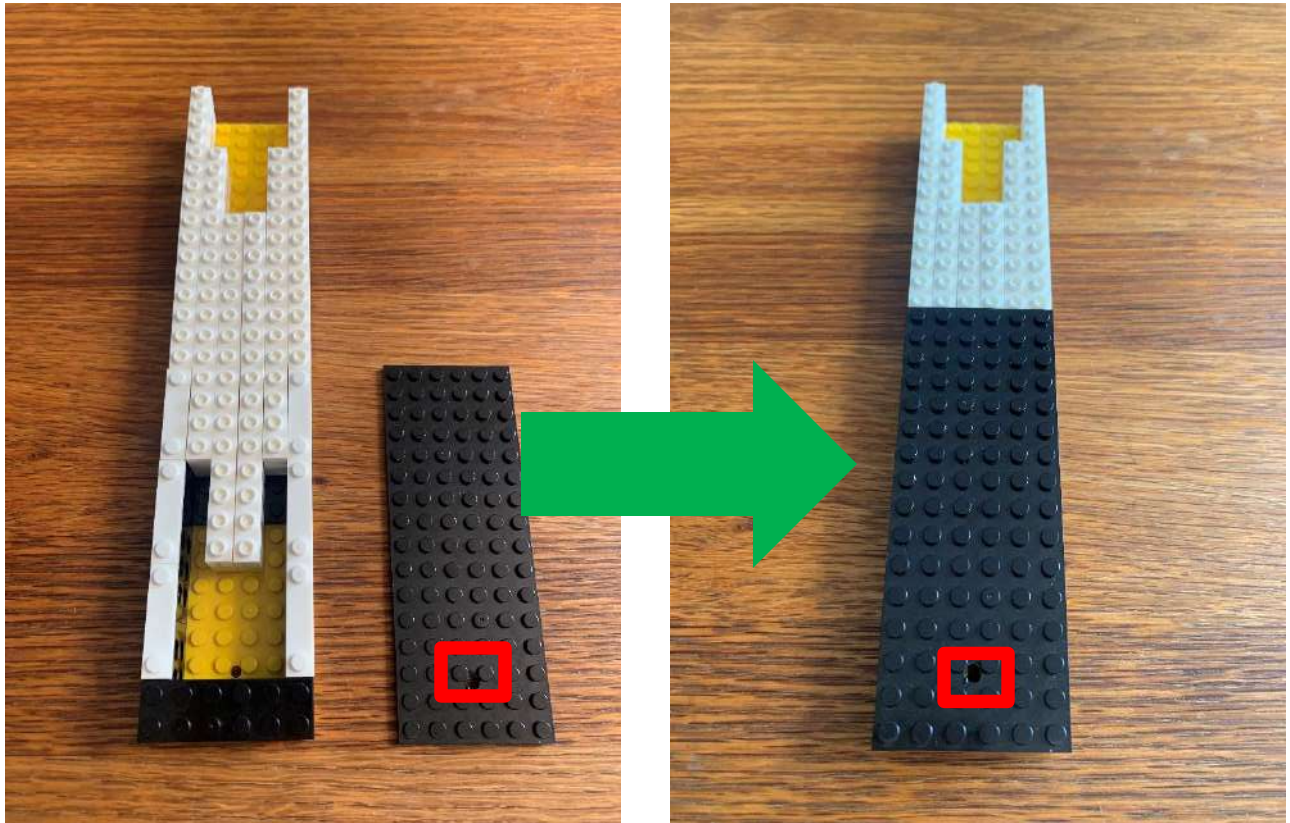


## Step 2

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.

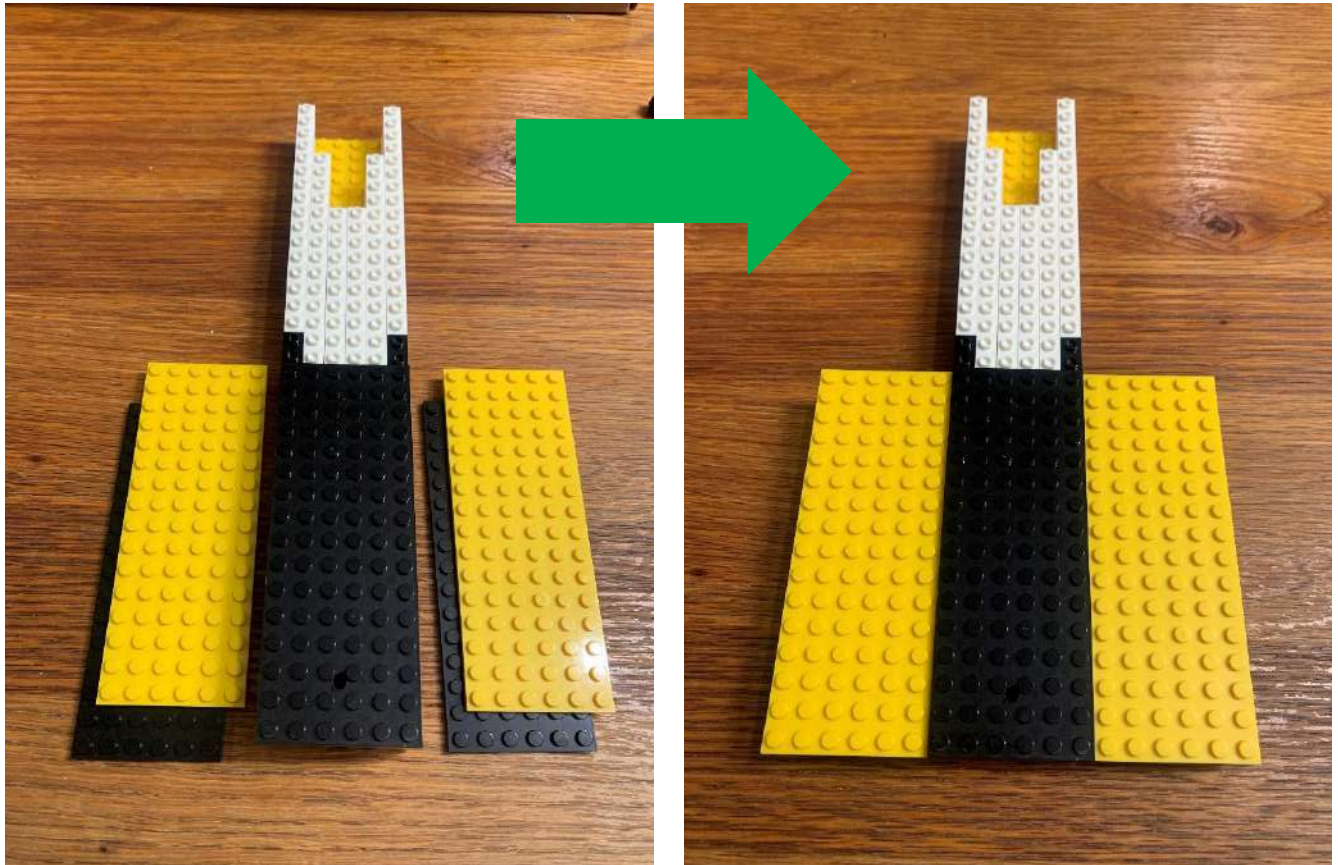


# Step 2

Build side boxes

1/4 size spine

## Step 2I



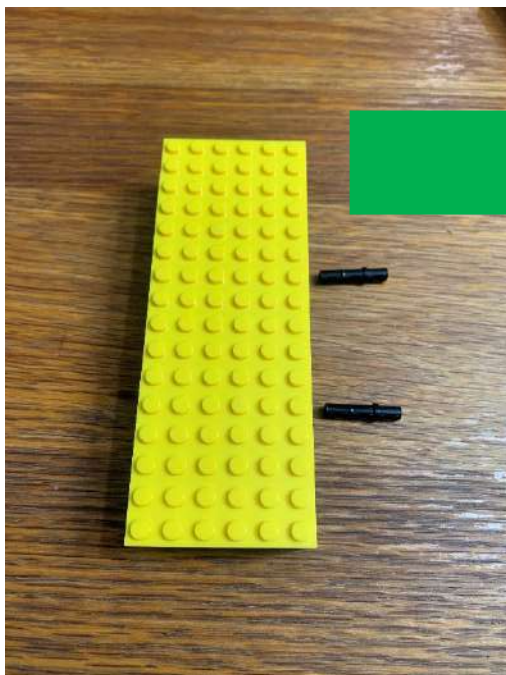
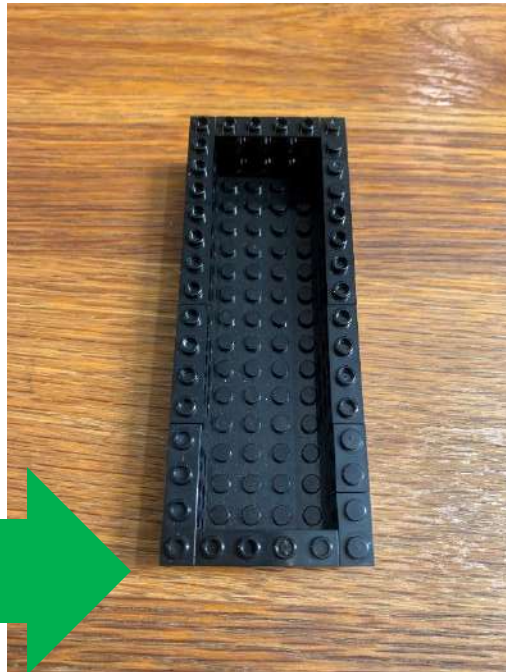
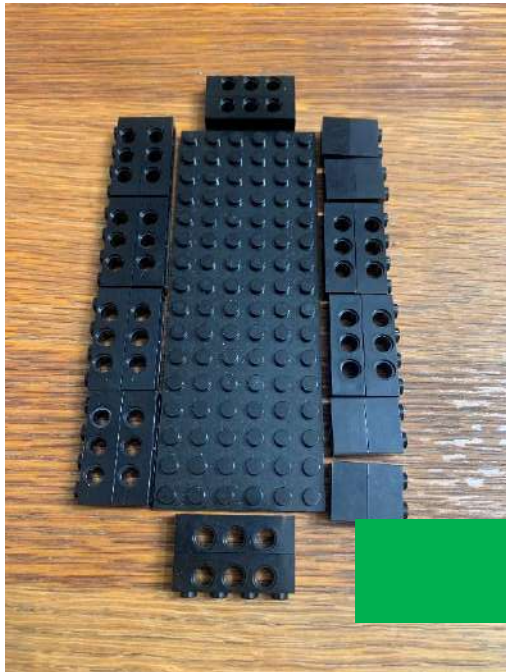
# Step 2

Build side boxes

1/4 size spine

## Step 2m

Repeat for second box





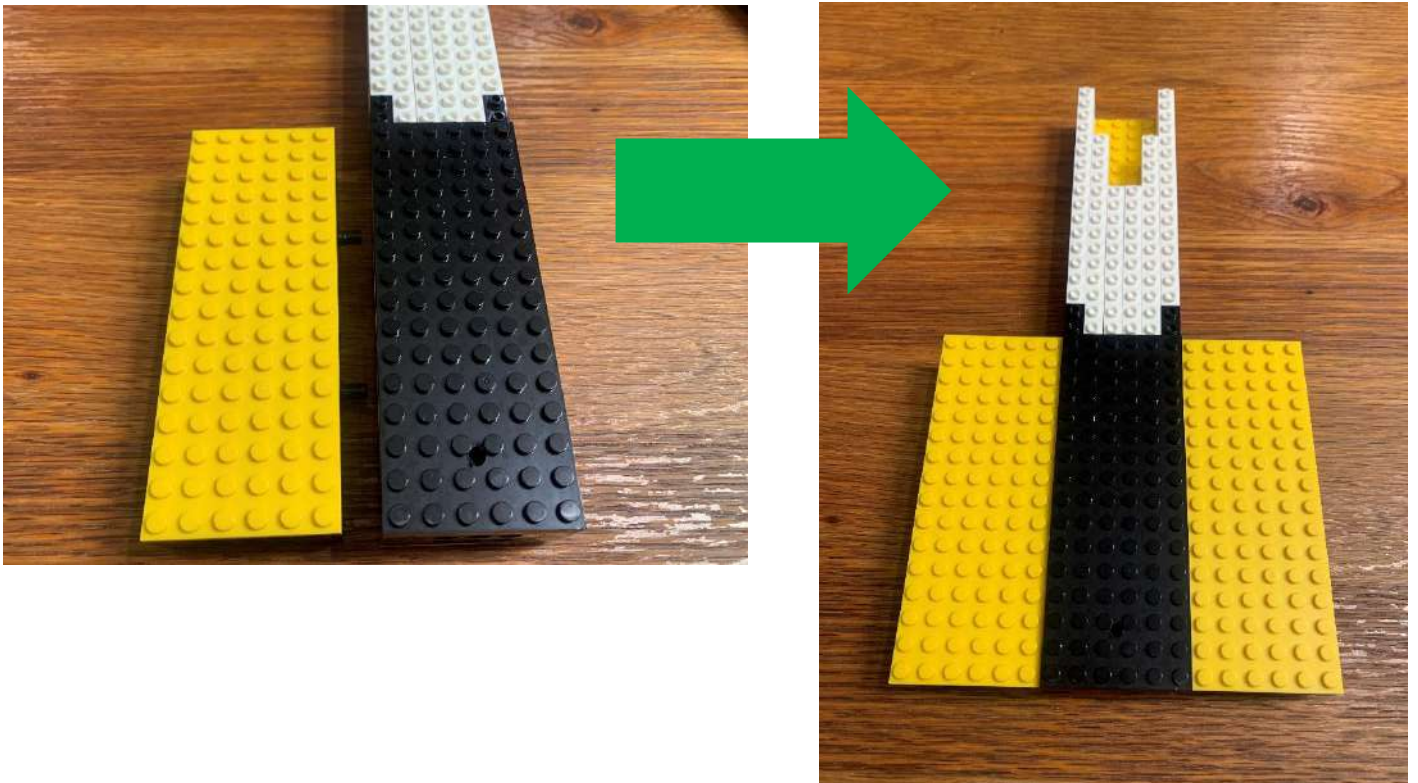
## Step 2

Build side boxes

1/4 size spine

### Step 2n

Plug side box nto spine

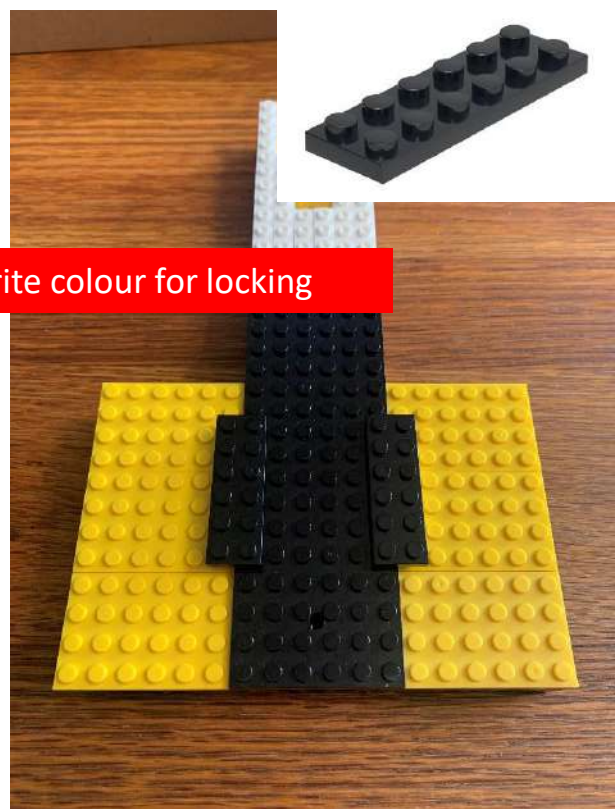
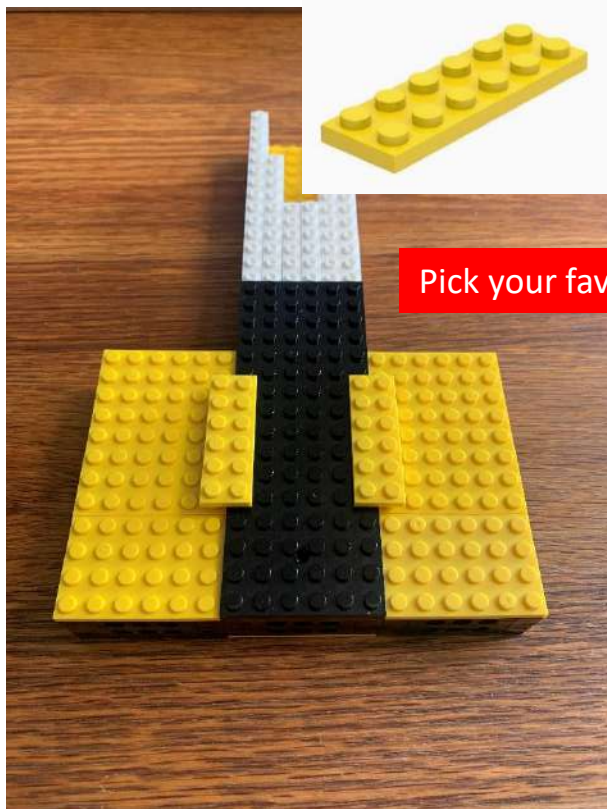
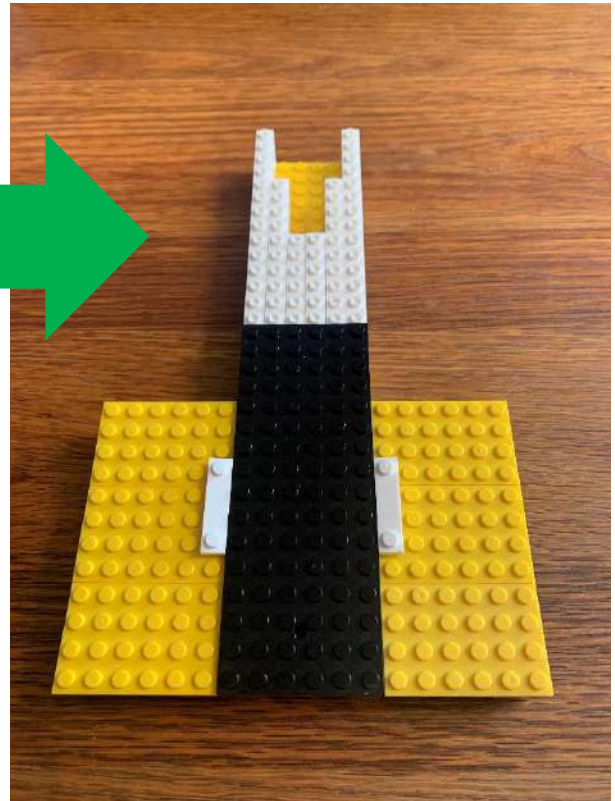
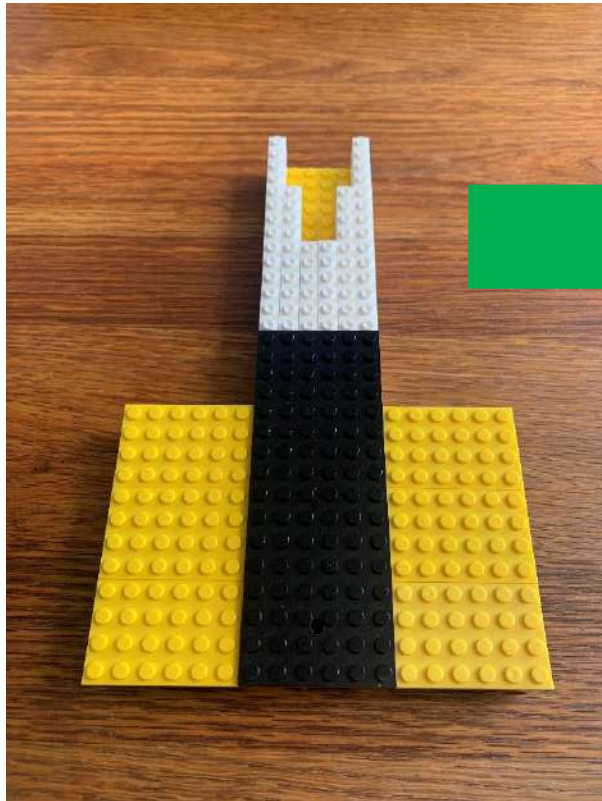


# Step 2

Build side boxes

1/4 size spine

## Step 2o – Lock front



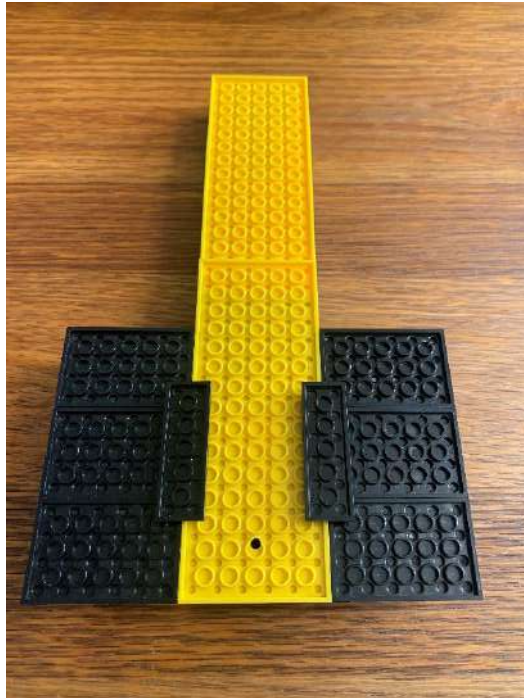
Pick your favourite colour for locking

# Step 2

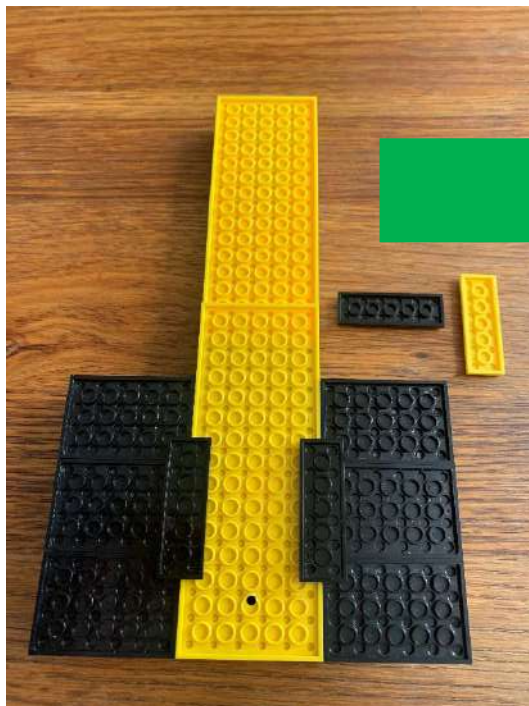
Build side boxes

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.

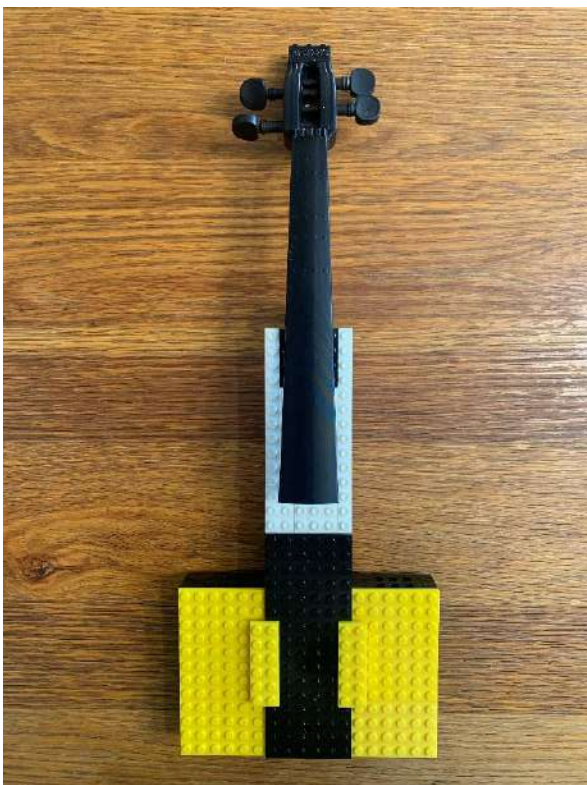
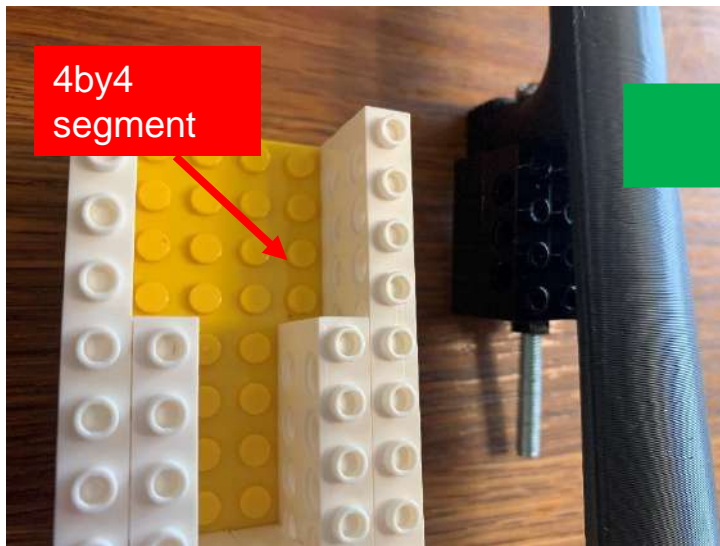


# Step 3

Connect neck and spine

## Step 3b

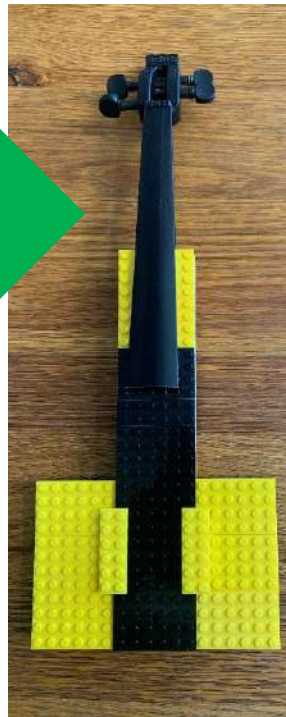
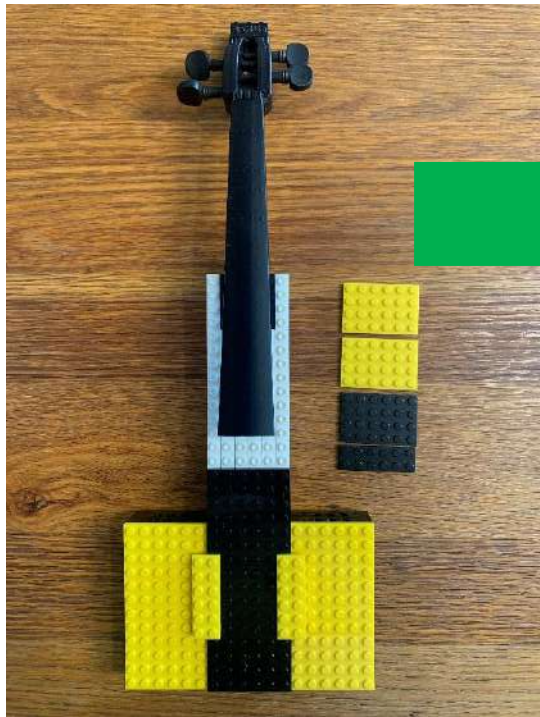
Put the square block of the violin neck into the 4 by 4 segment on top of the violin spine.



# Step 3

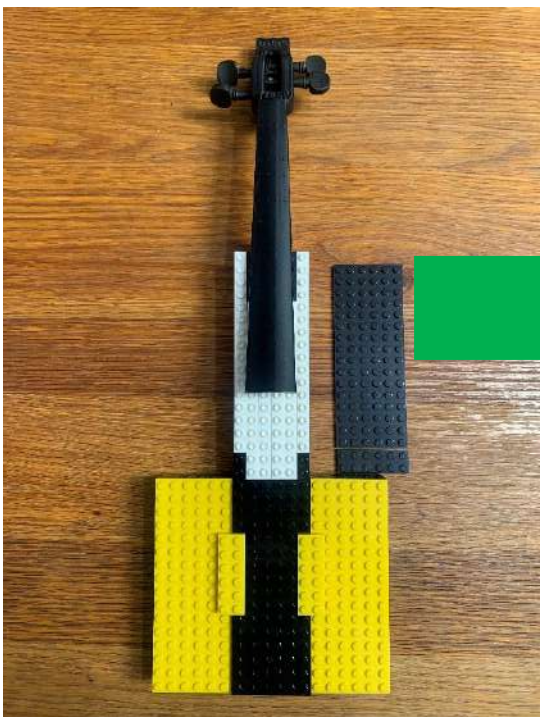
Connect neck and spine

## Step 3c Place cover plate



For 1/8 size spine

Pick you fav colour



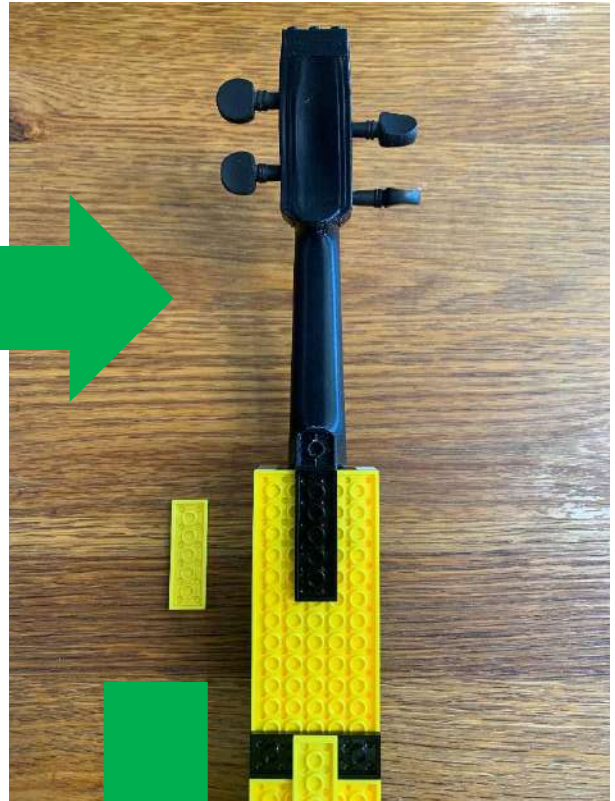
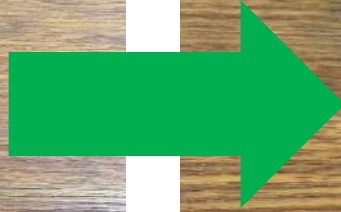
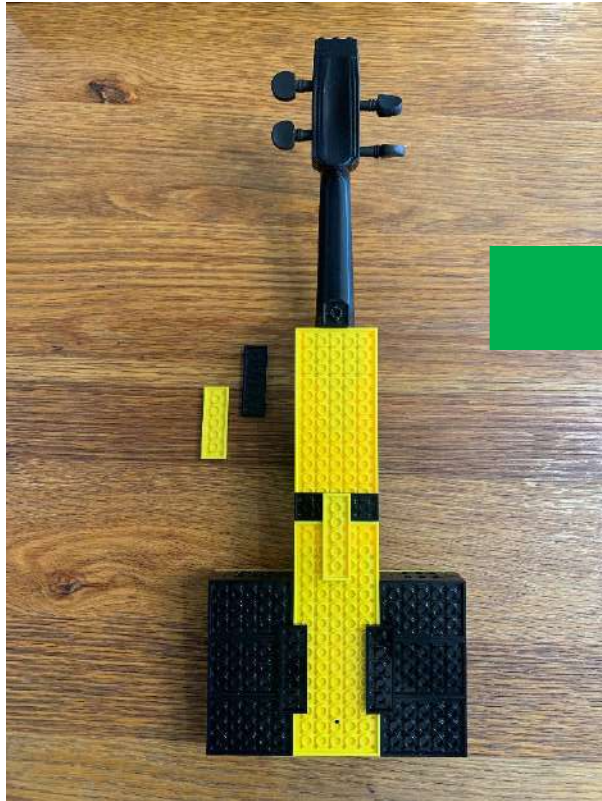
For 1/4 size spine

Pick you fav colour

# Step 3

Connect neck and spine

## Step 3d – Lock back

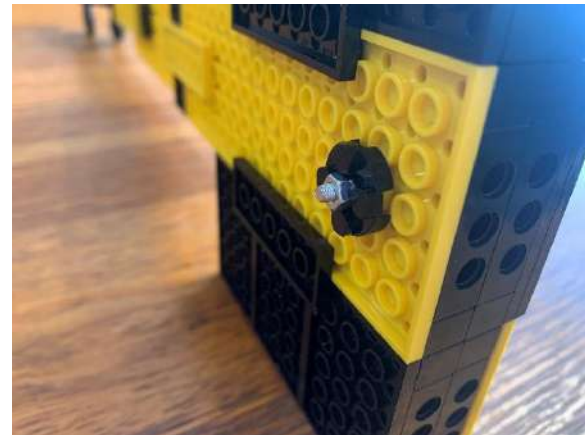
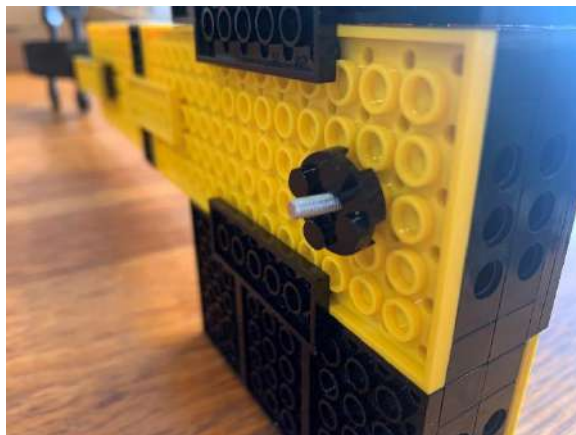
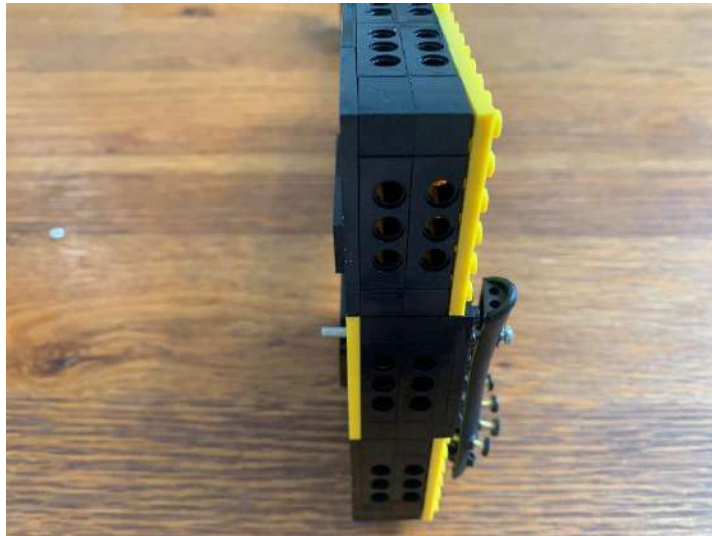
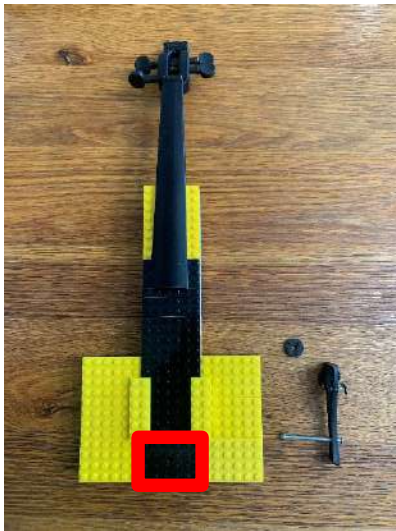


# Step 4

Attach tailpiece with violin spine

## Step 4a

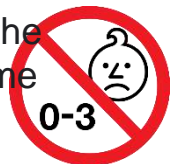
Put the screw into the hole on tailpiece.



### 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.



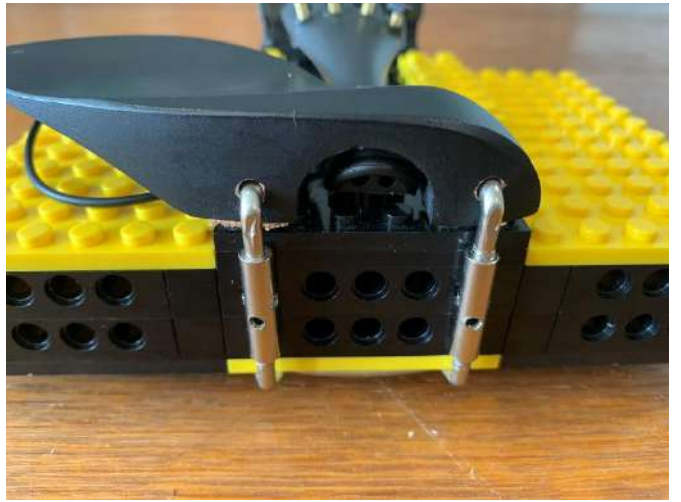
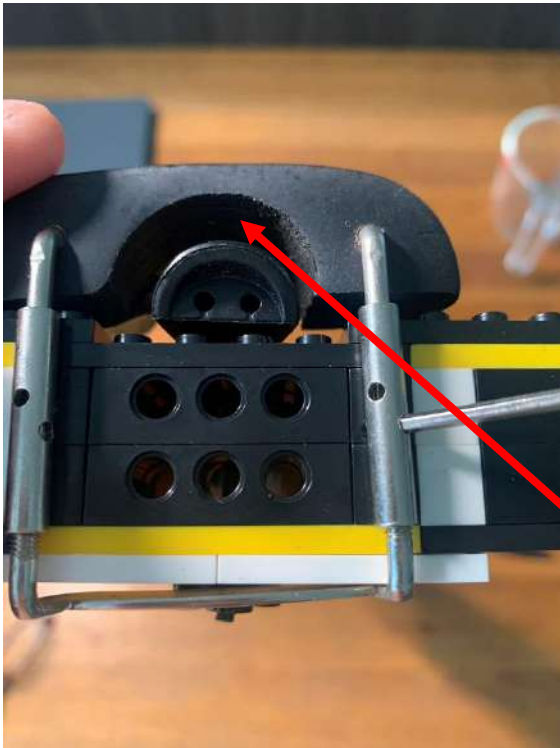


# Step 5

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



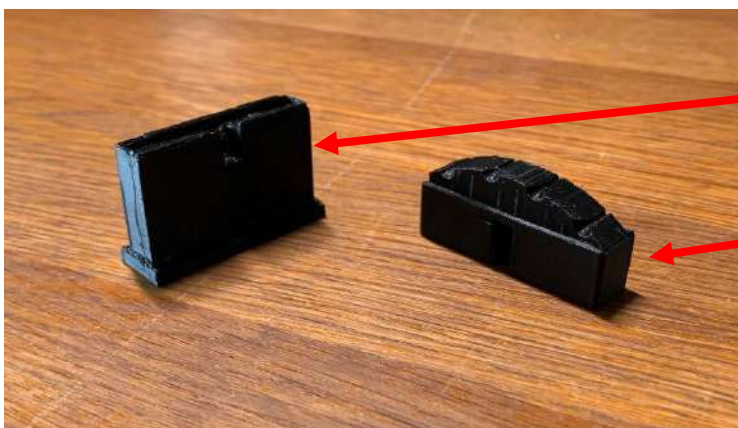
Use the below part to create the space if needed



# Step 6 – for package without soundbox

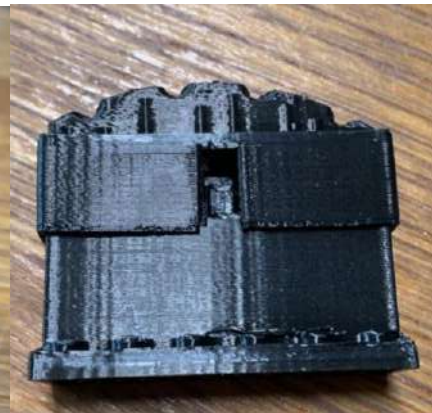
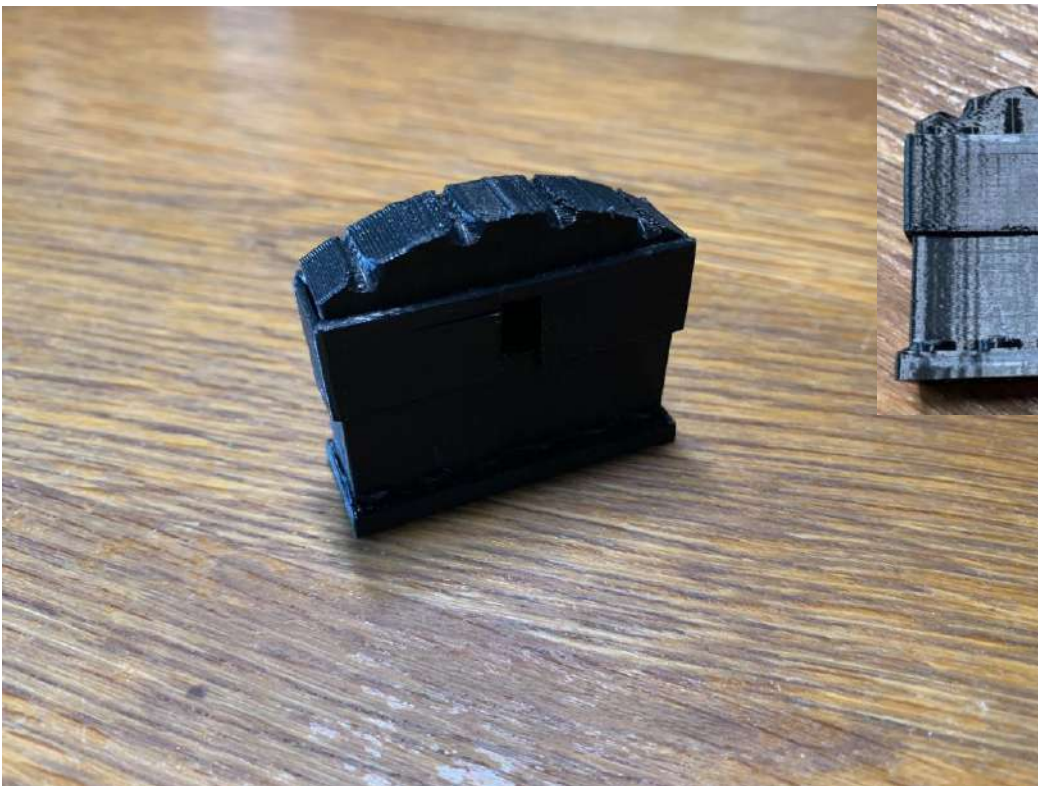
Install bridge

**Note:**



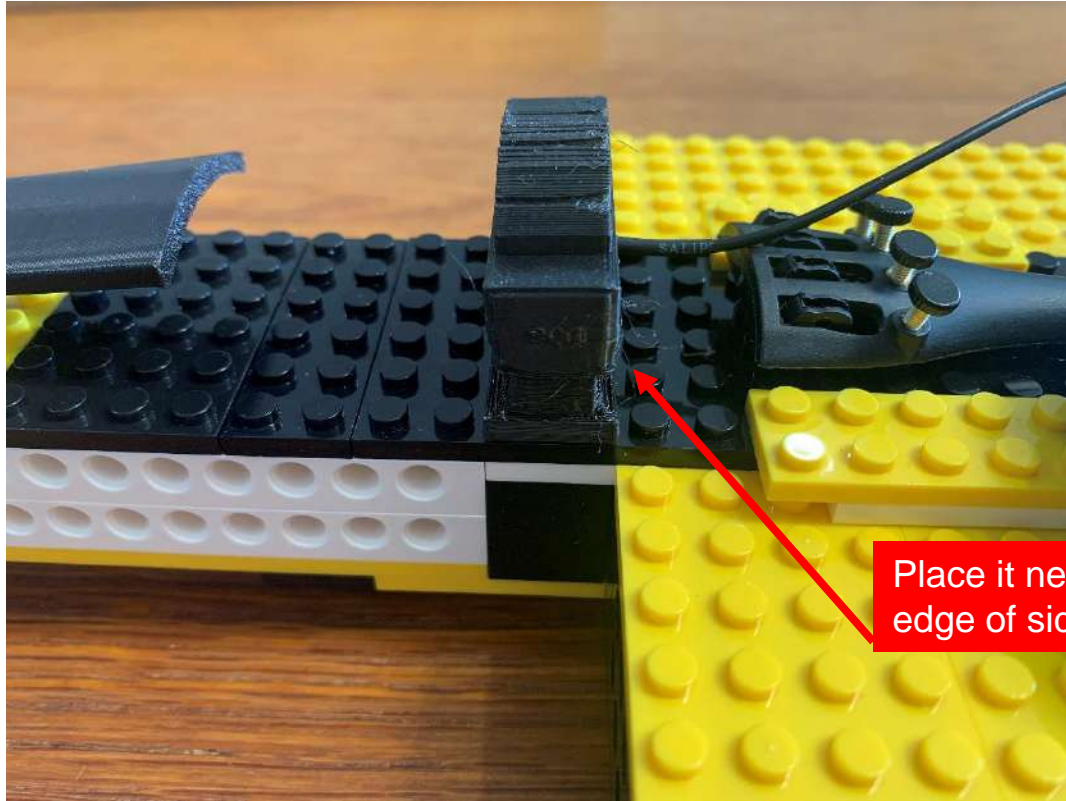
base

top



# Step 6 – for package without soundbox

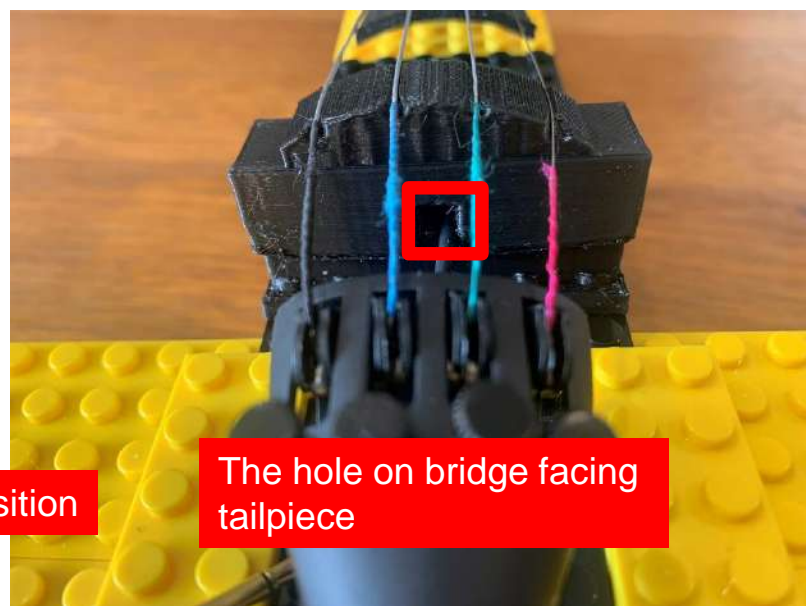
## Install bridge



Place it next to the edge of side boxes



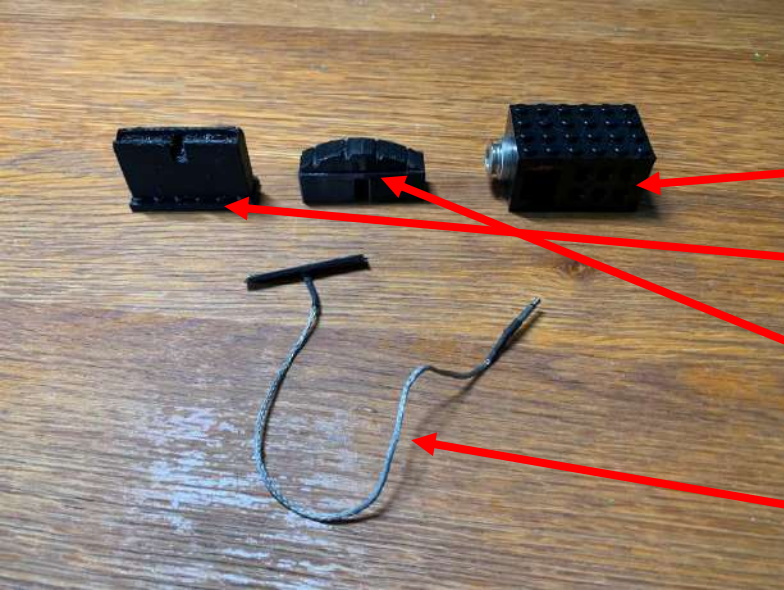
Place it in this position



The hole on bridge facing tailpiece



# Step 6 – for package with soundbox



soundbox

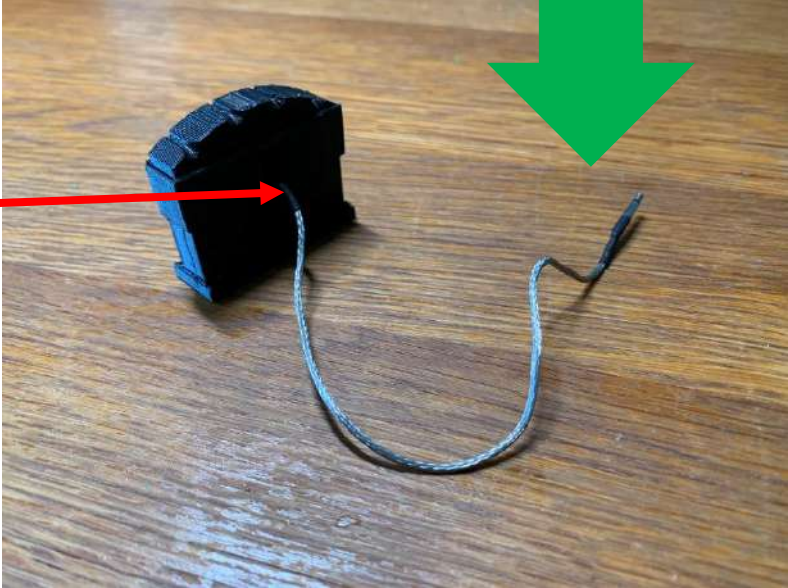
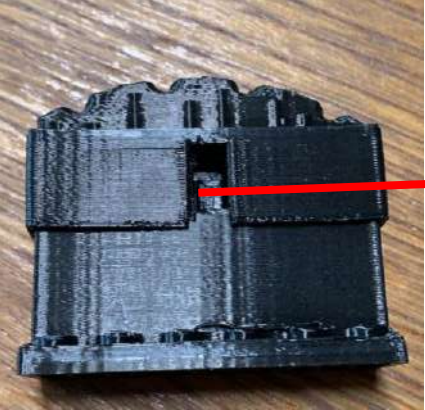
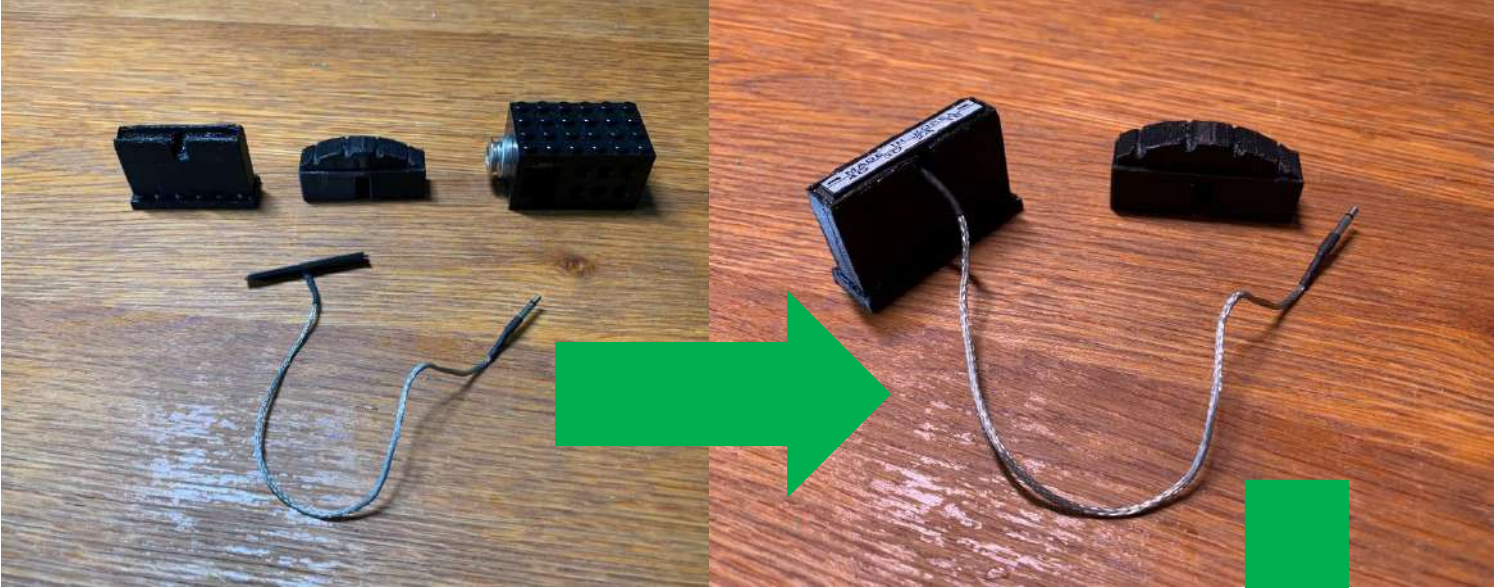
base

top

Sound bar

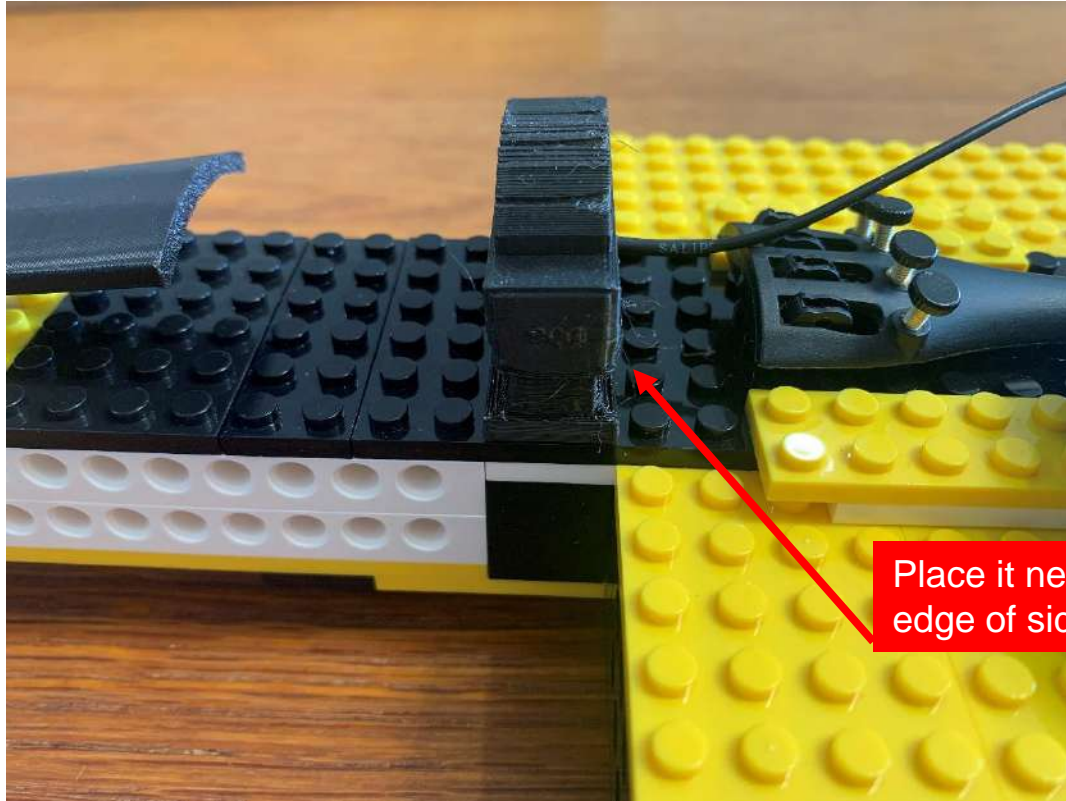


# Step 6 – for package with soundbox



# Step 6 – for package without soundbox

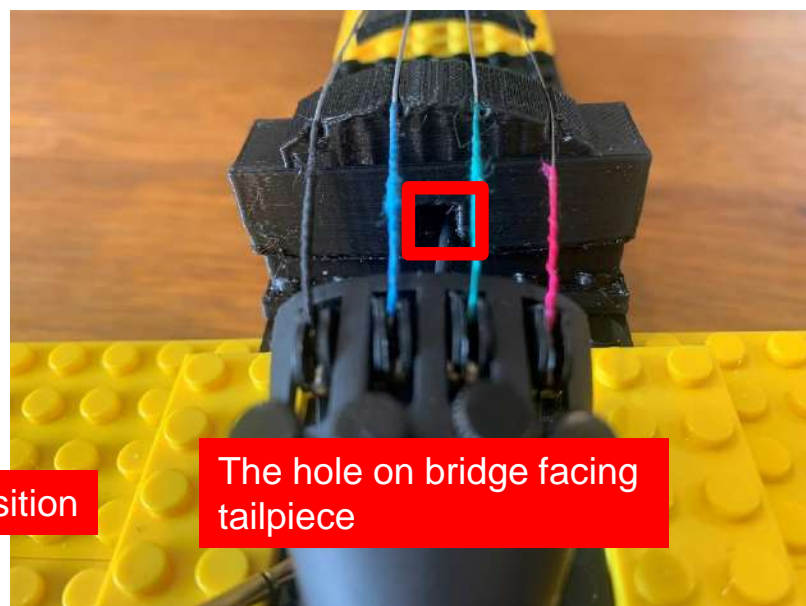
## Install bridge



Place it next to the edge of side boxes



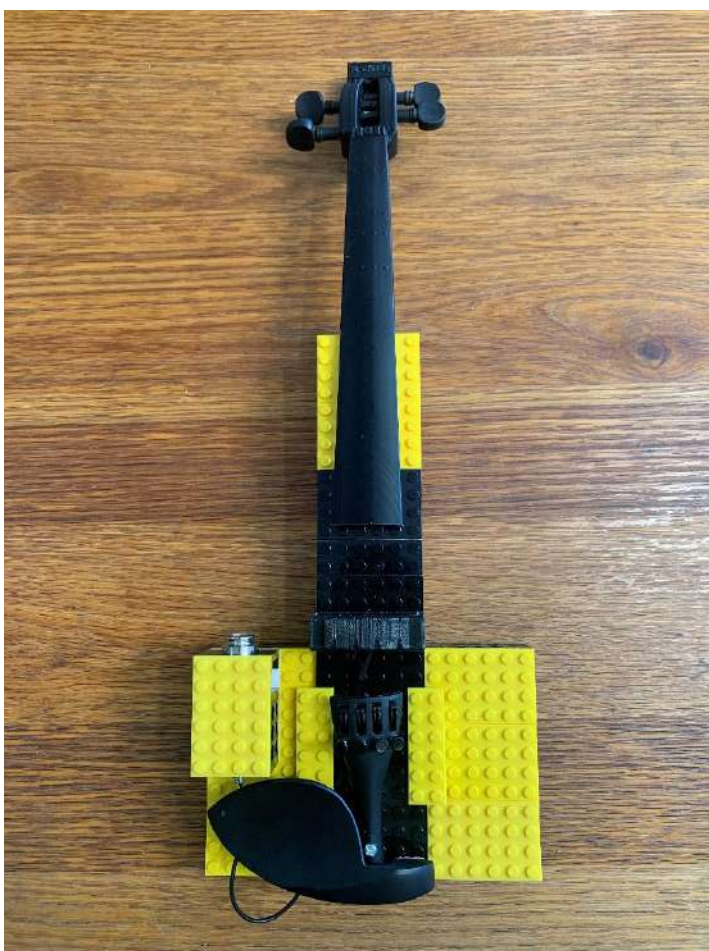
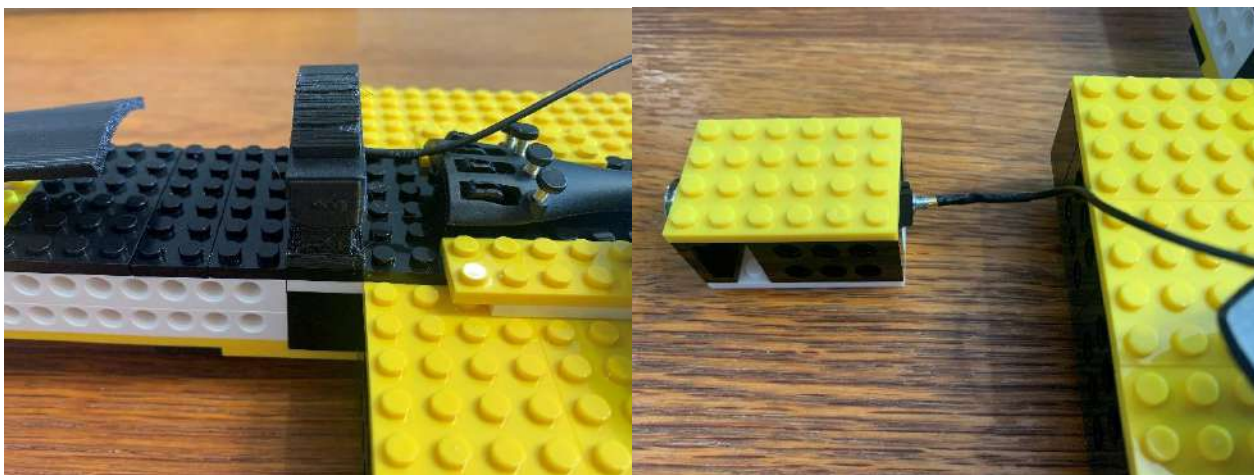
Place it in this position



The hole on bridge facing tailpiece



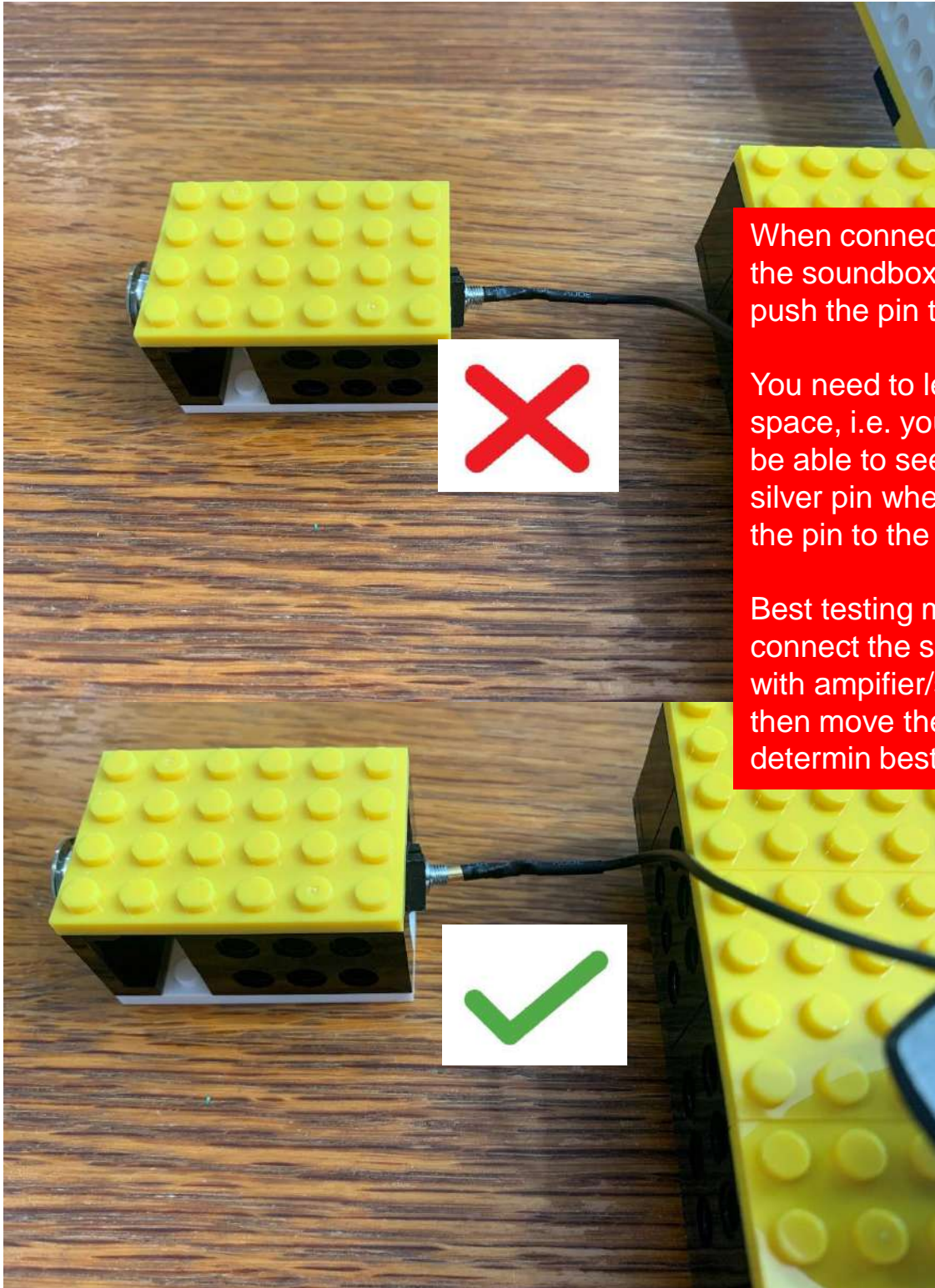
## Step 6 – for package with soundbox



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/>

