

# Step 1 – 确定颜色/设计和尺寸

确定您小提琴的颜色/设计和尺寸。

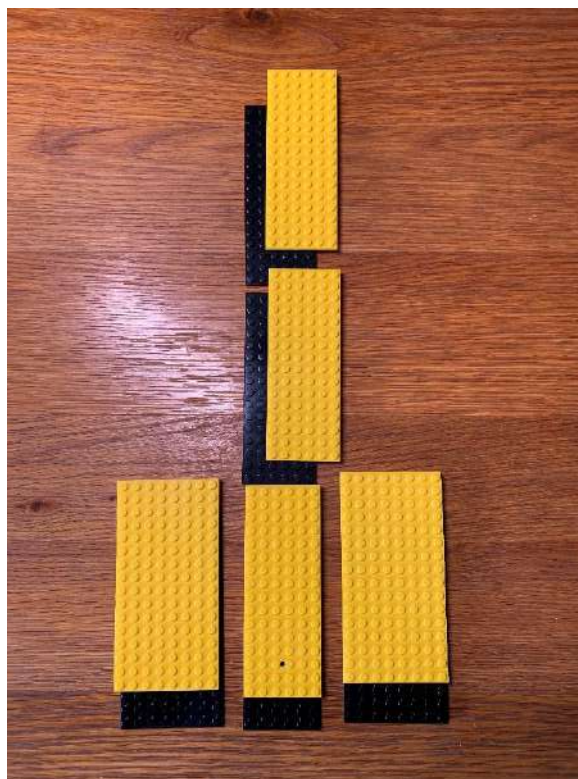
本产品包含三种类型的底板，通常两种颜色（主色和次色），因此您需要首先确定小提琴的颜色/设计。

将板材按照下面示例中的方式放置，以便您了解最终效果。示例中使用了黑色和黄色的组合，您的包装可能包含其他颜色组合。选项如下，但不限于：

## 纯黑色



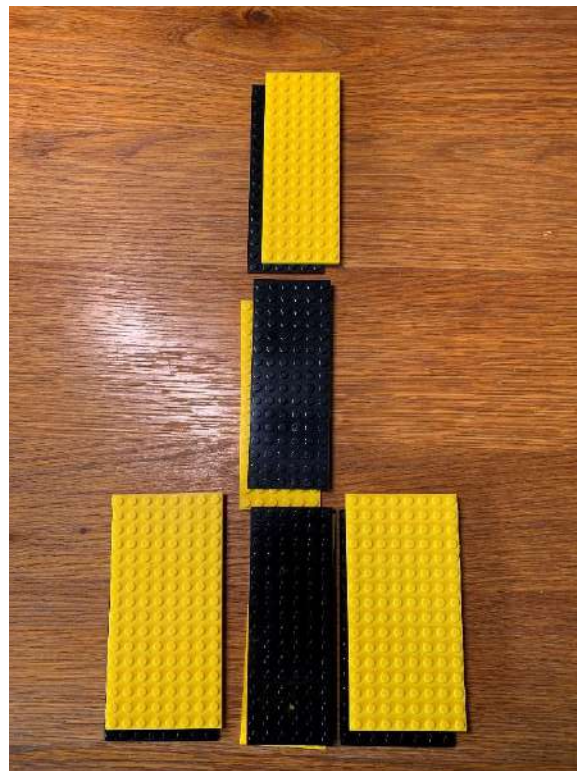
## 纯黄色



# Step 1 – 设计

确定小提琴颜色和设计

## 黄色为主




可能还会有其他颜色组合，您甚至可以使用自己的乐高积木，只要它们与本文件中对应的规格相同即可。



# Step 1 – 提琴尺寸

使用相同的一套积木和零件，您可以组装不同尺寸的小提琴，即1/2、3/4和4/4。您可以参考此表来确定小提琴的尺寸。

**(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



出于演示目的，我们将组装左侧设计的4/4尺寸。

对于4/4尺寸，请参考第4页到第16页以及第39页至文末。

对于3/4尺寸，请参考第17页到第27页以及第39页至文末。

对于1/2尺寸，请参考第28页至文末。



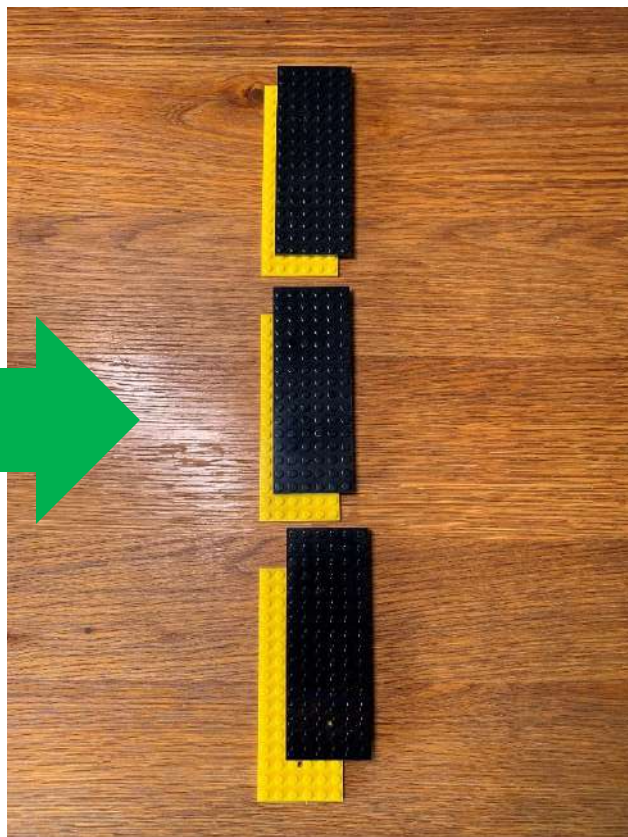


## Step 2

搭建提琴脊柱

4/4 size spine

在本示例中，我们将按照下图设计组装小提琴，因此黄色板是脊柱的背板。

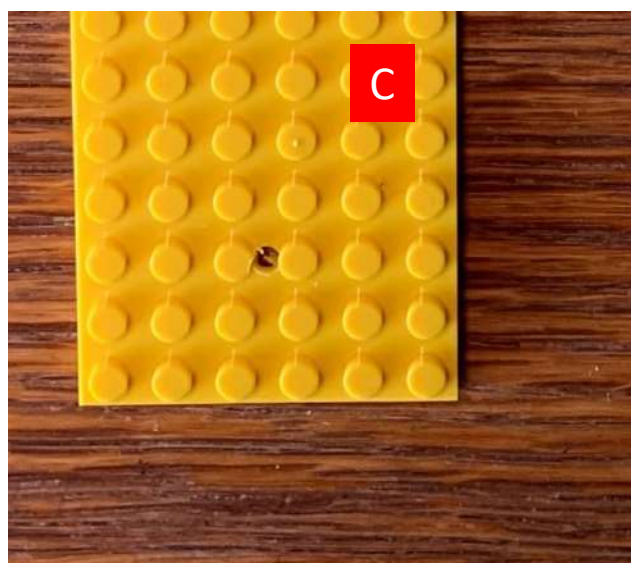
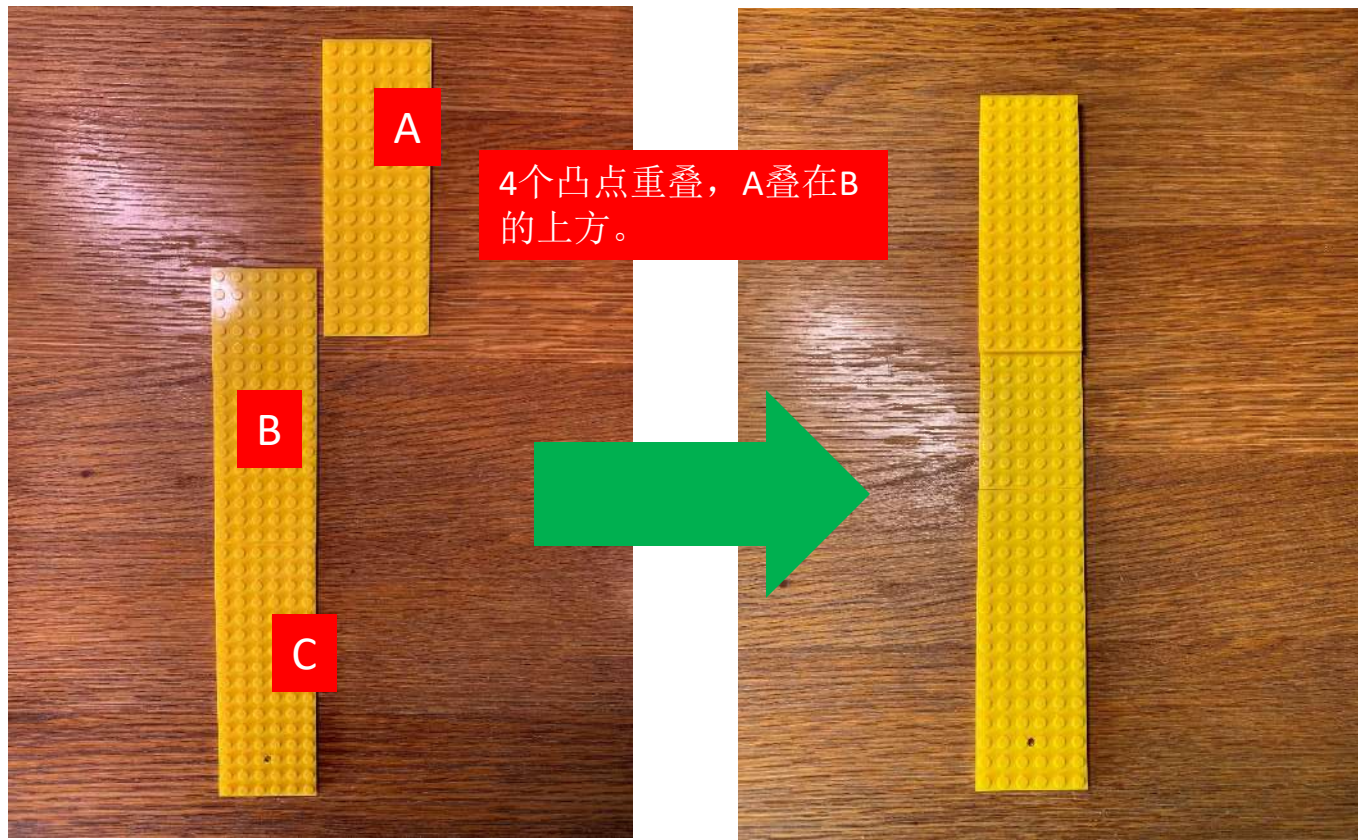


# Step 2

搭建提琴脊柱

4/4 size spine

## Step 2a – 拼接脊柱底板



### Note:

确保底板 (C) 是下半部分有孔的那块板。



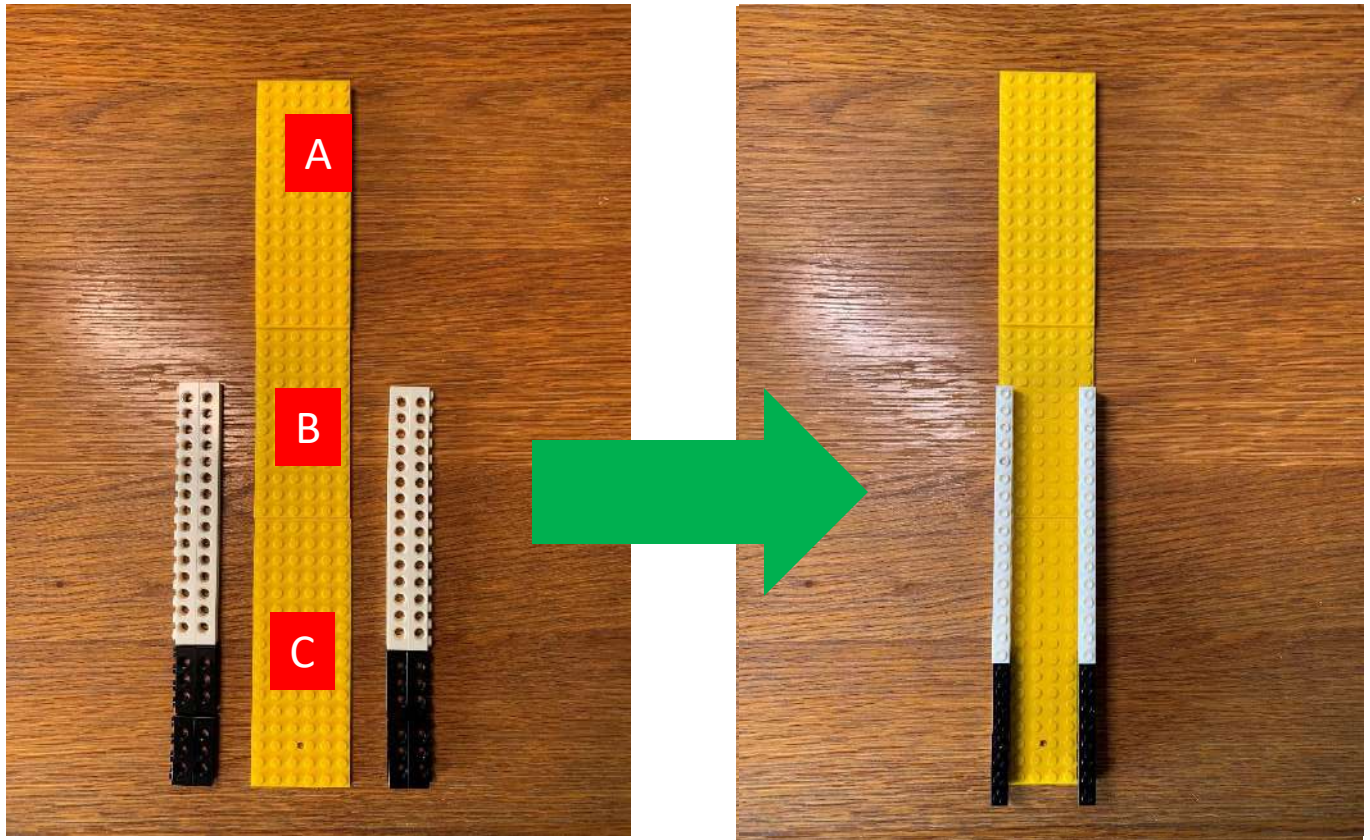


# Step 2

搭建提琴脊柱

4/4 size spine

## Step 2b – 连接 B 和 C

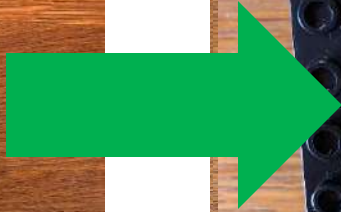
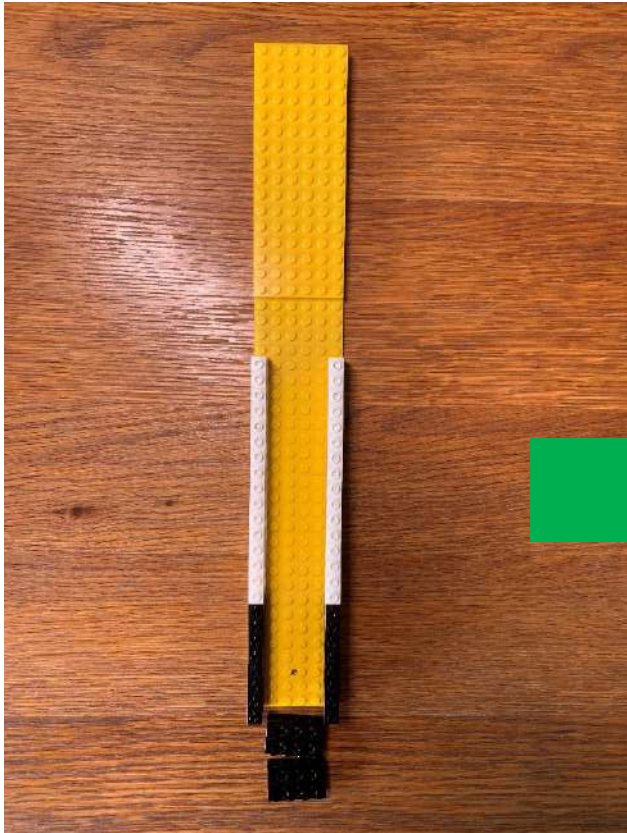


# Step 2

搭建提琴脊柱

4/4 size spine

## Step 2c



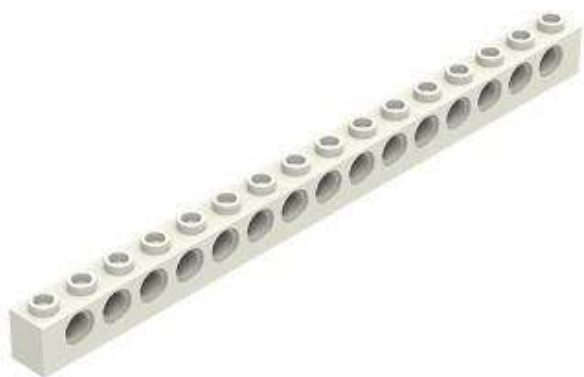
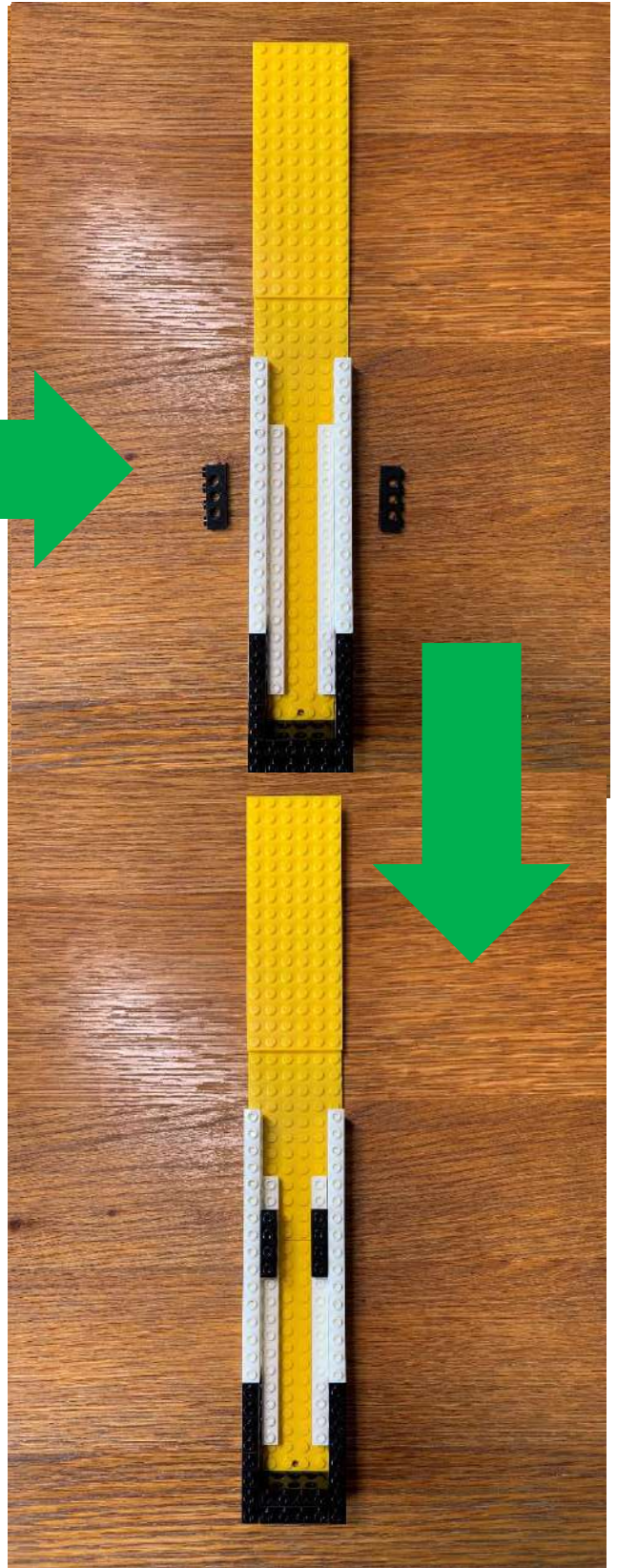
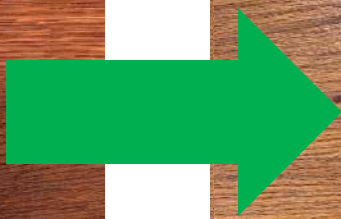
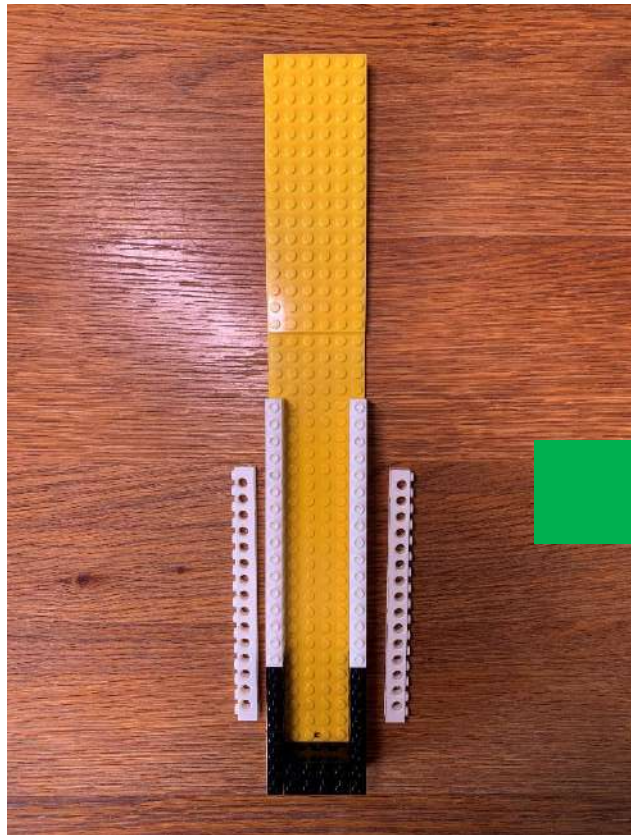


# Step 2

搭建提琴脊柱

4/4 size spine

## Step 2d



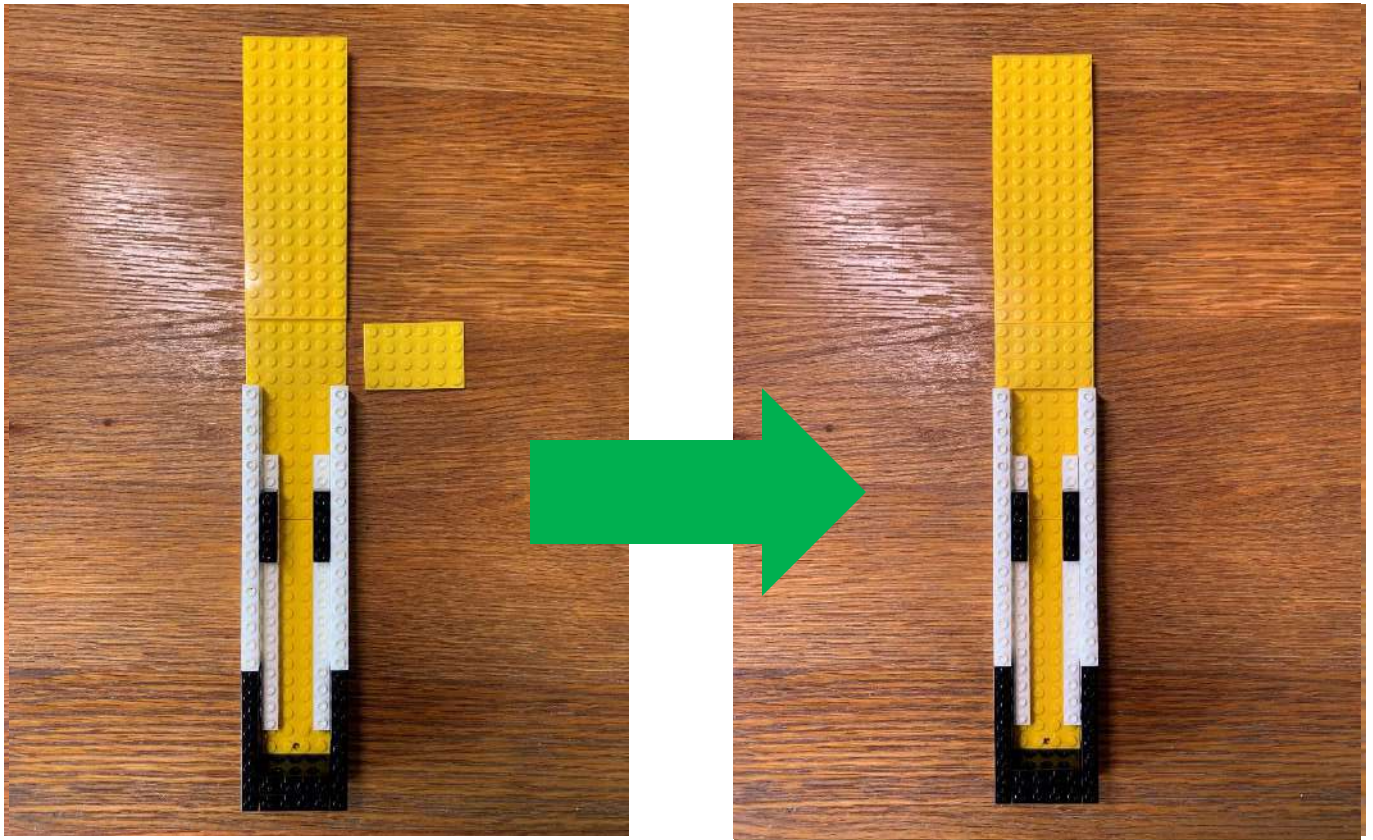


# Step 2

搭建提琴脊柱

4/4 size spine

## Step 2e

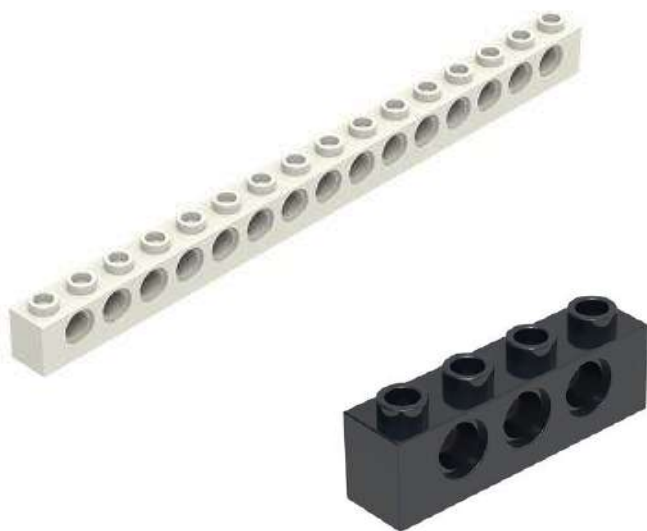
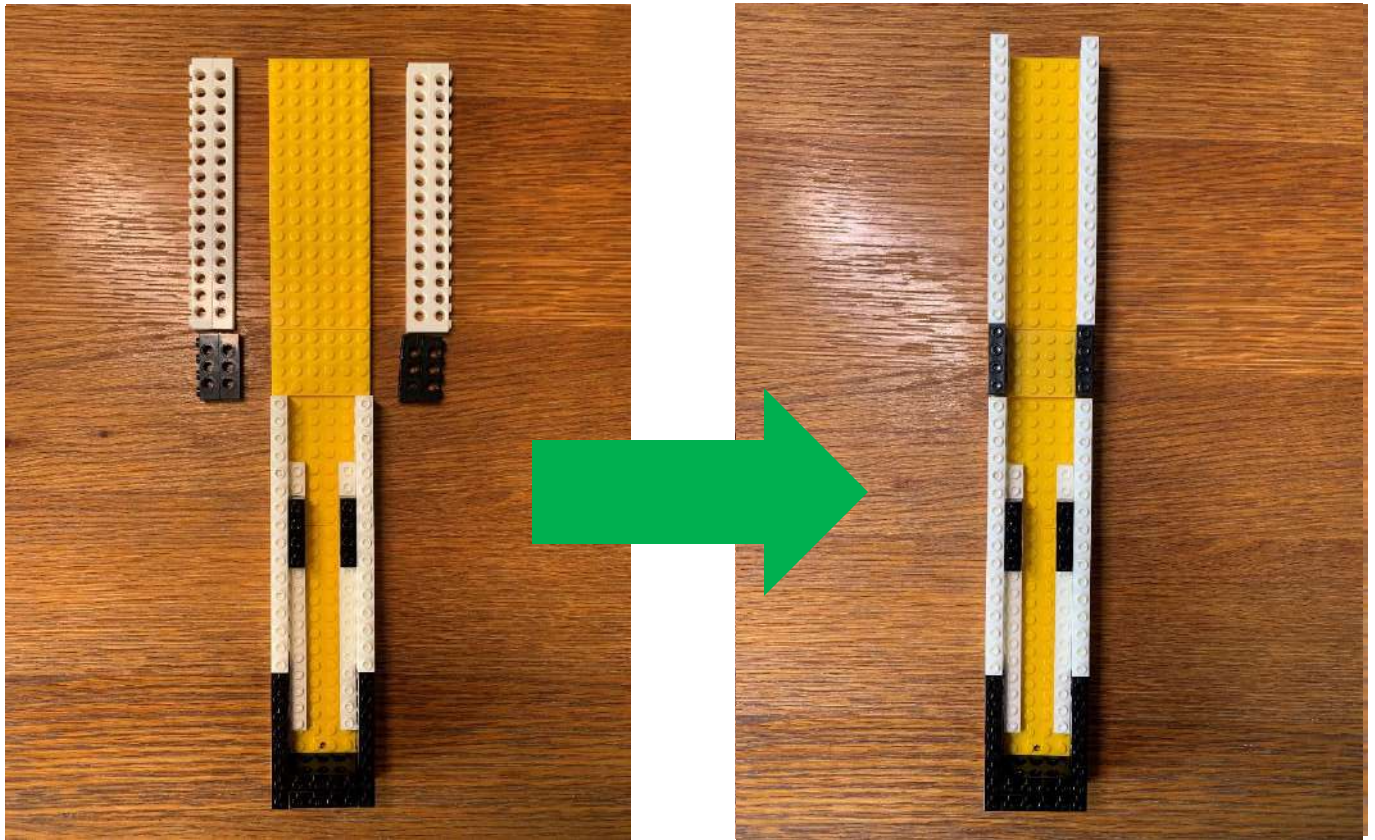


# Step 2

搭建提琴脊柱

4/4 size spine

## Step 2f



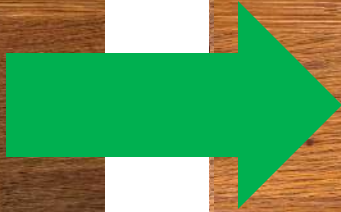
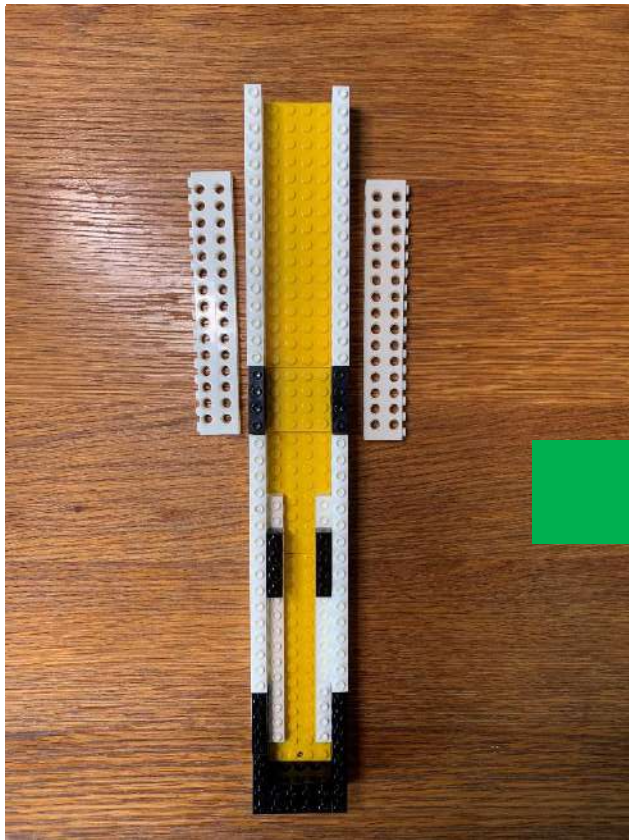


# Step 2

搭建提琴脊柱

4/4 size spine

## Step 2g

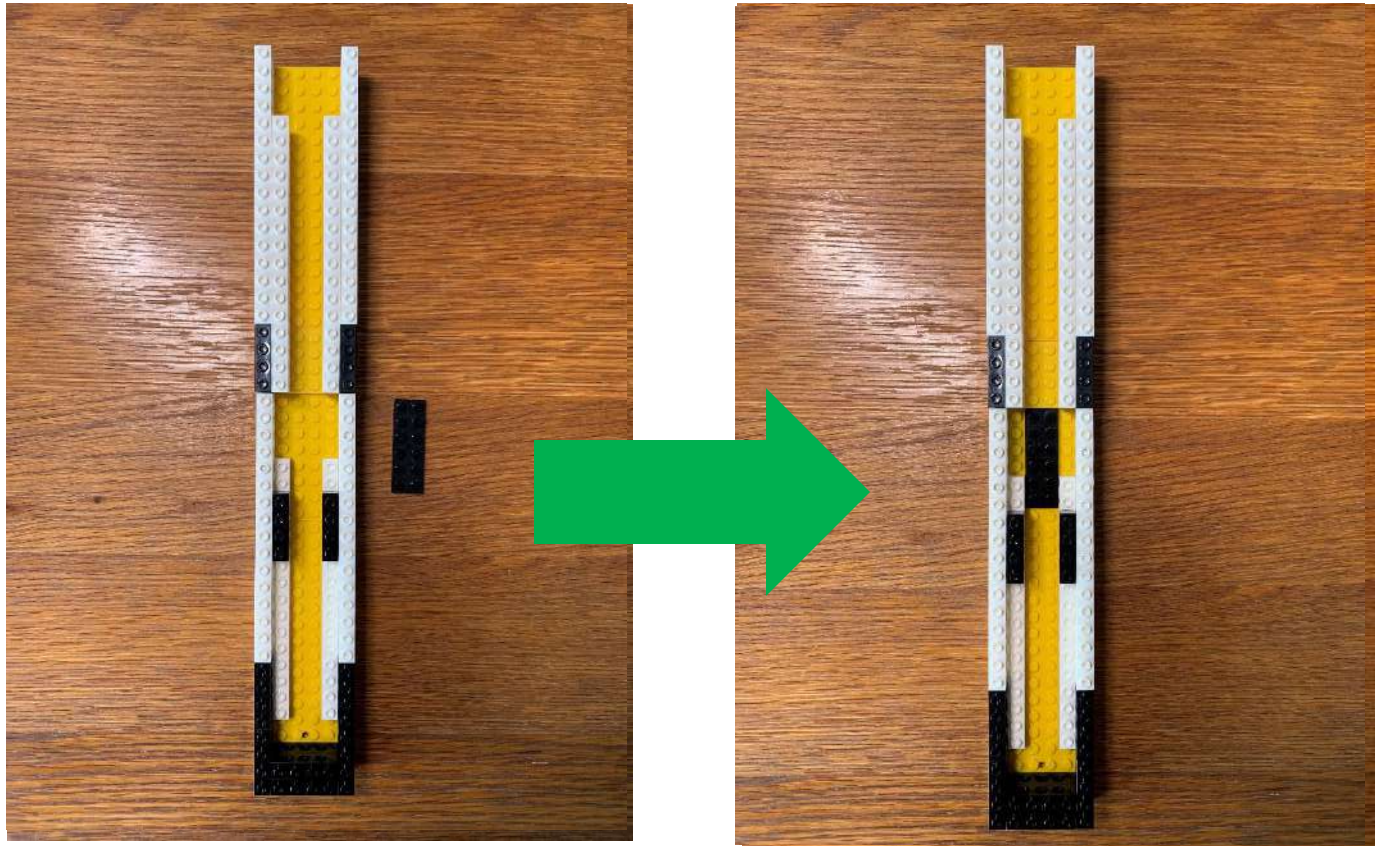


# Step 2

搭建提琴脊柱.

4/4 size spine

## Step 2h



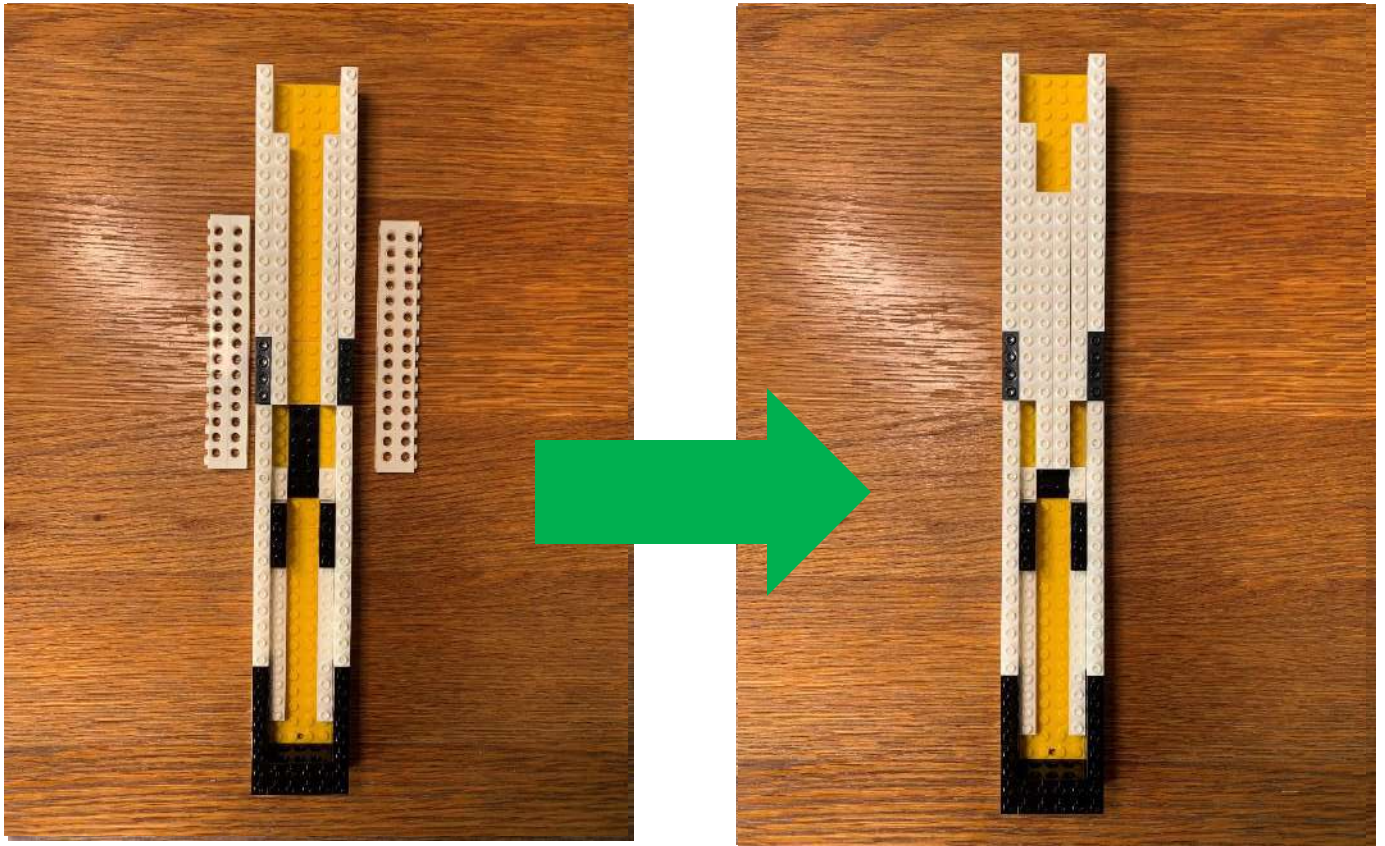


# Step 2

搭建提琴脊柱

4/4 size spine

## Step 2i

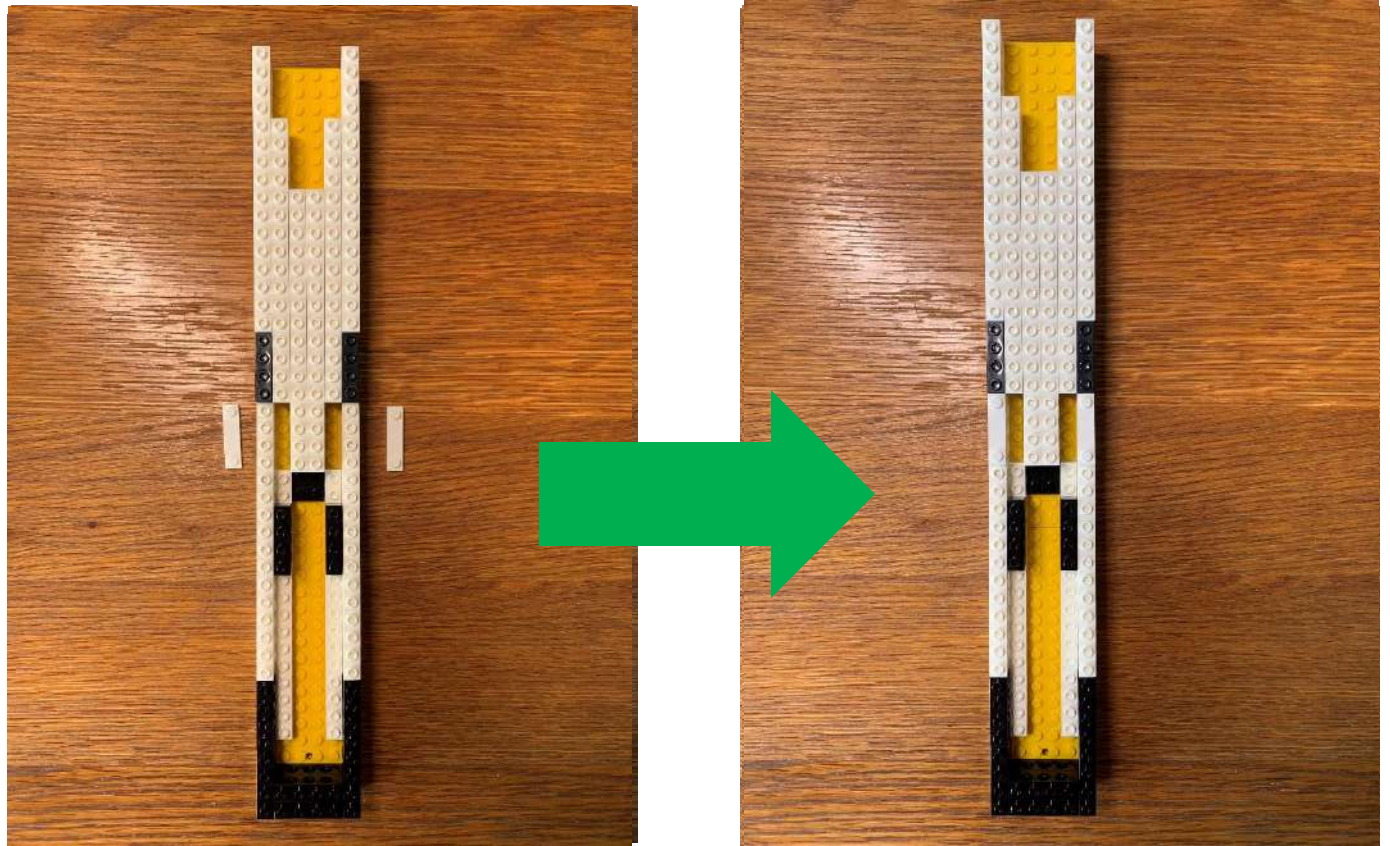


# Step 2

搭建提琴脊柱

4/4 size spine

## Step 2j



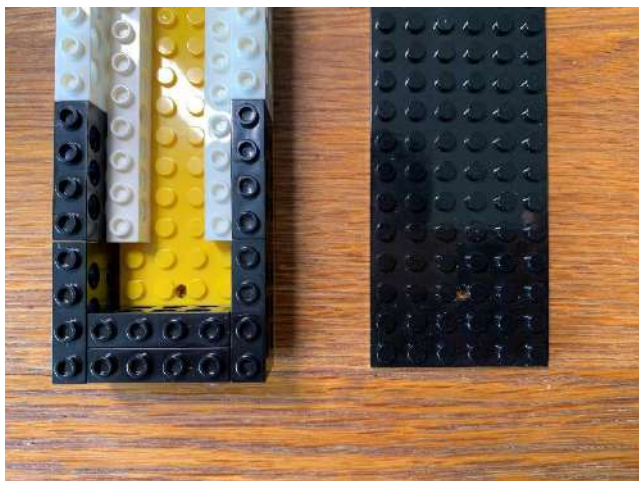
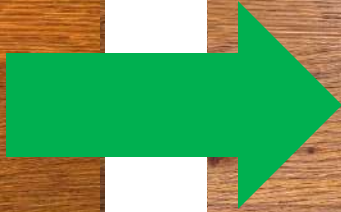
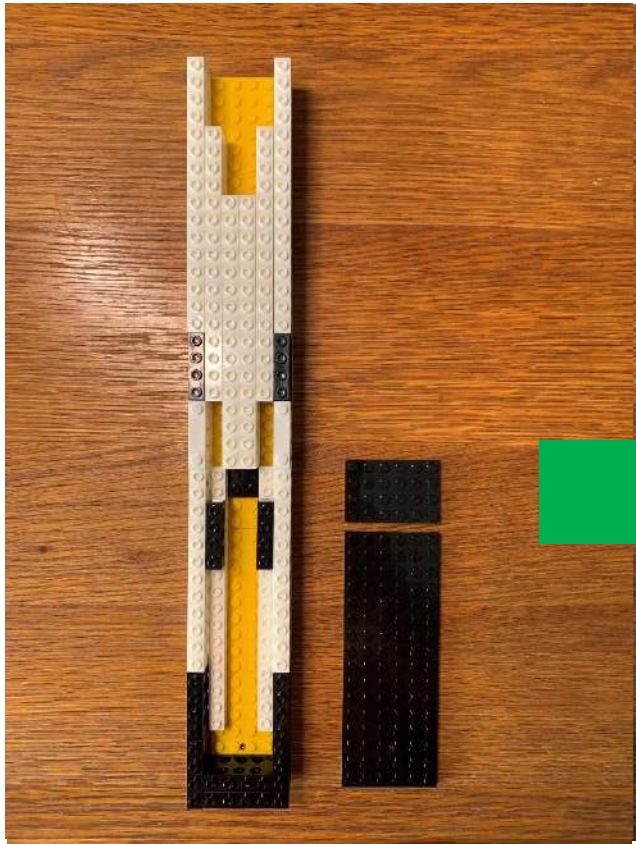


## Step 2

搭建提琴脊柱.

4/4 size spine

### Step 2k



#### Note:

确保底板是下半部分有孔的那一块。



## Step 2

搭建提琴脊柱.

4/4 size spine

### Note:

4/4 尺寸脊柱已经完成，请跳至39页



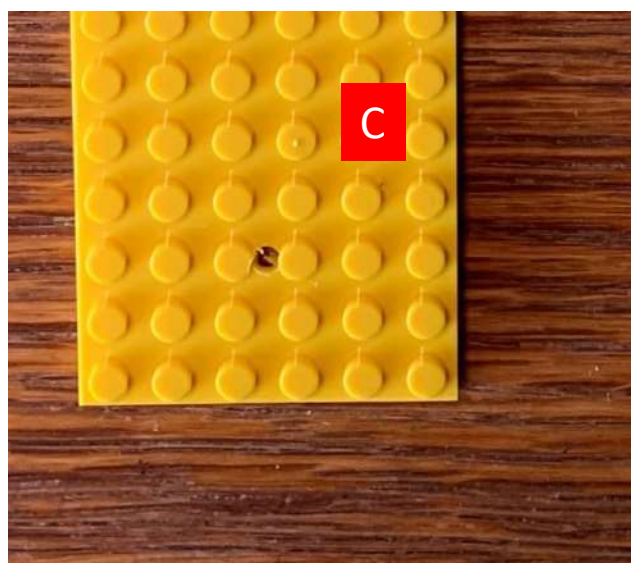
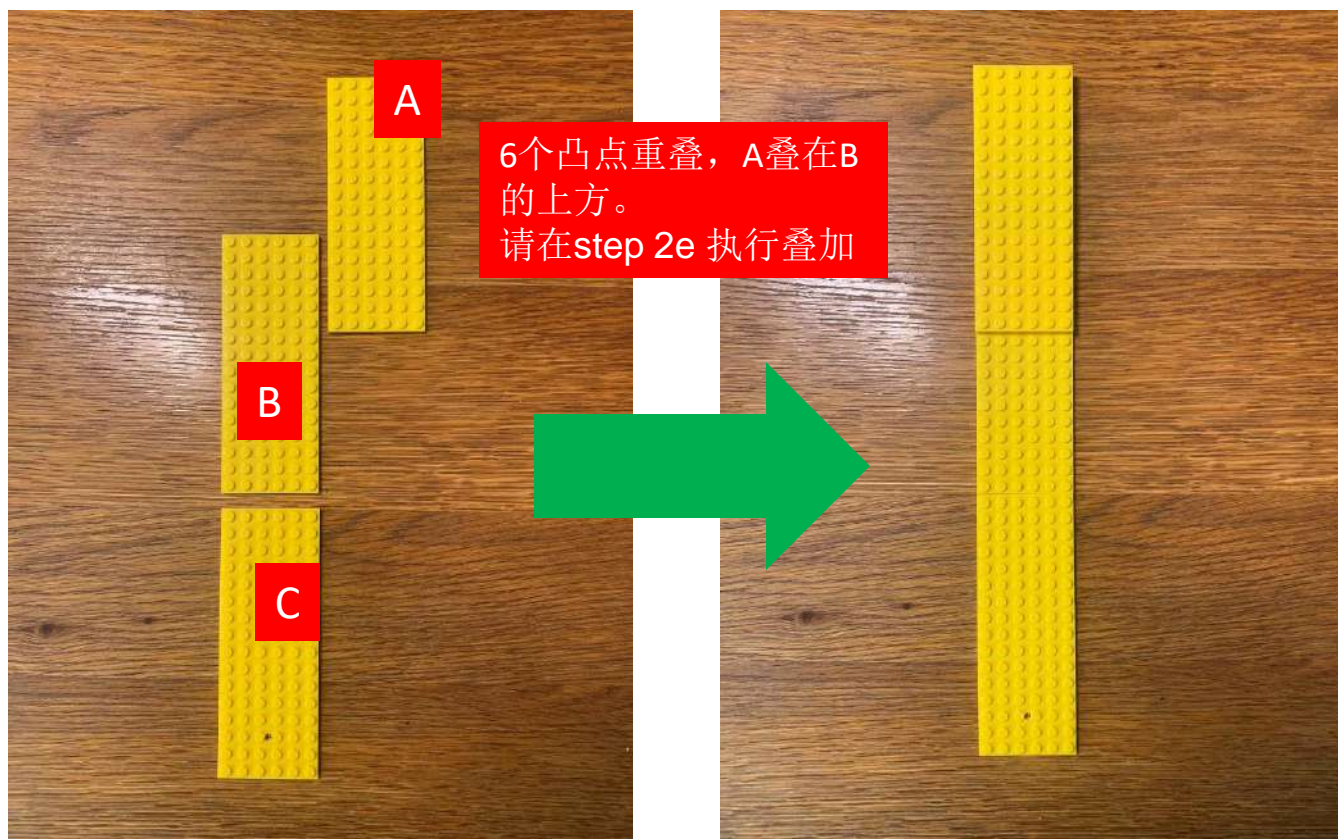


## Step 2

搭建提琴脊柱。

3/4 size spine

### Step 2a – 拼接脊柱底板



#### Note:

确保底板 (C) 是下半部分有孔的那块板。

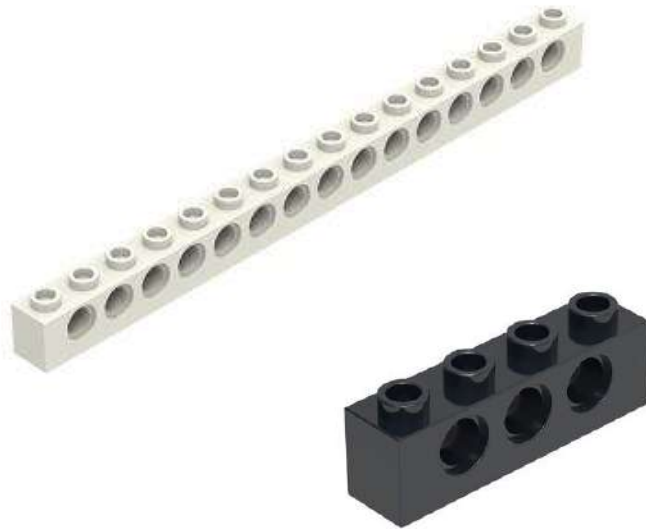
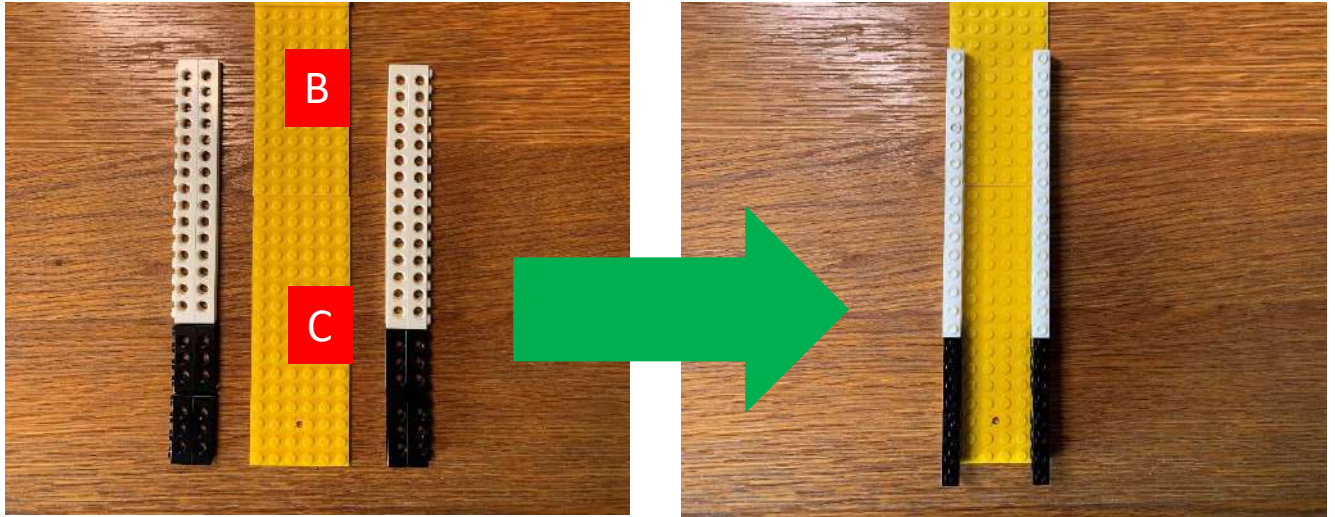


# Step 2

搭建提琴脊柱.

3/4 size spine

## Step 2b – connect B and C



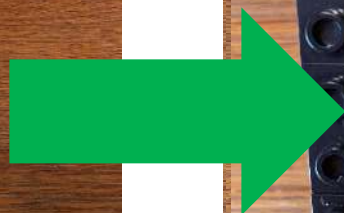
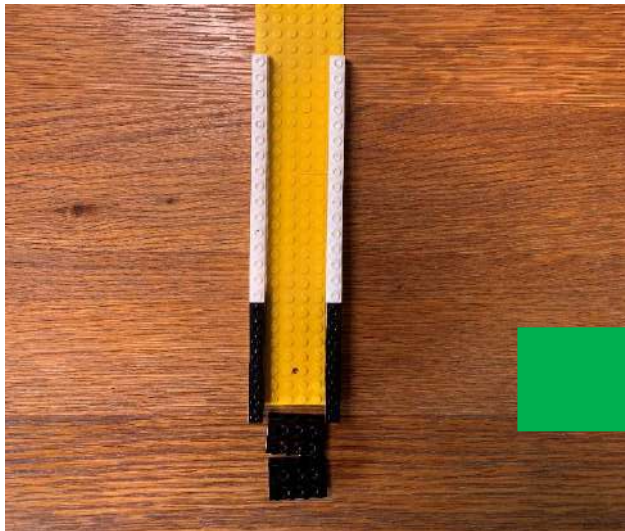


# Step 2

搭建提琴脊柱.

3/4 size spine

## Step 2c

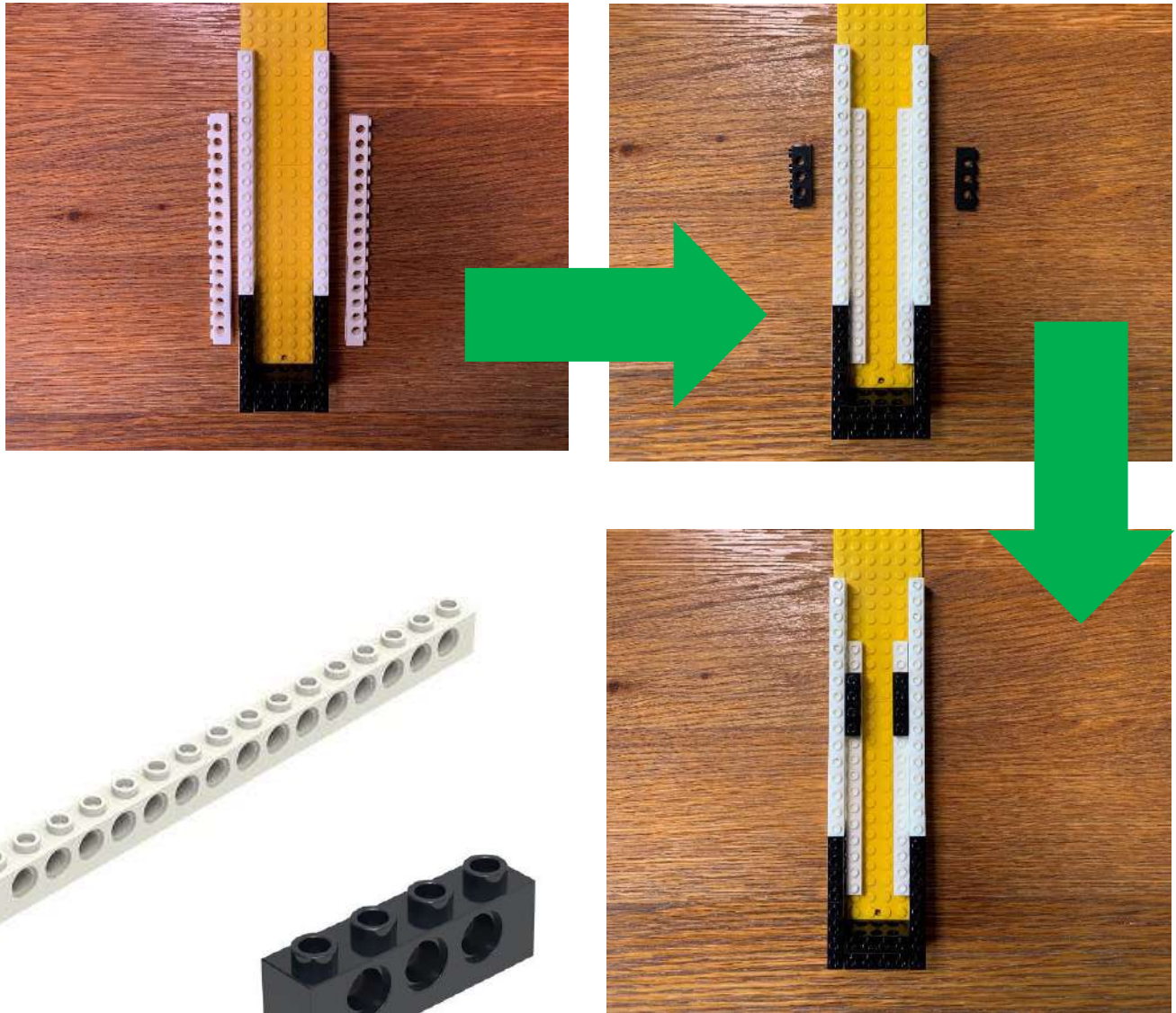


# Step 2

搭建提琴脊柱.

3/4 size spine

## Step 2d



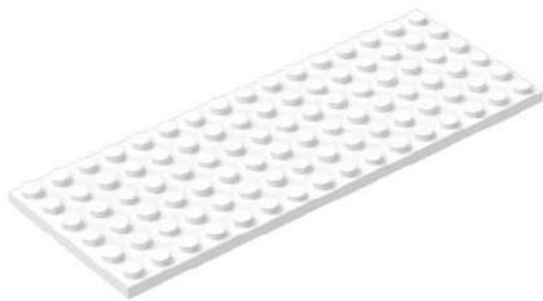
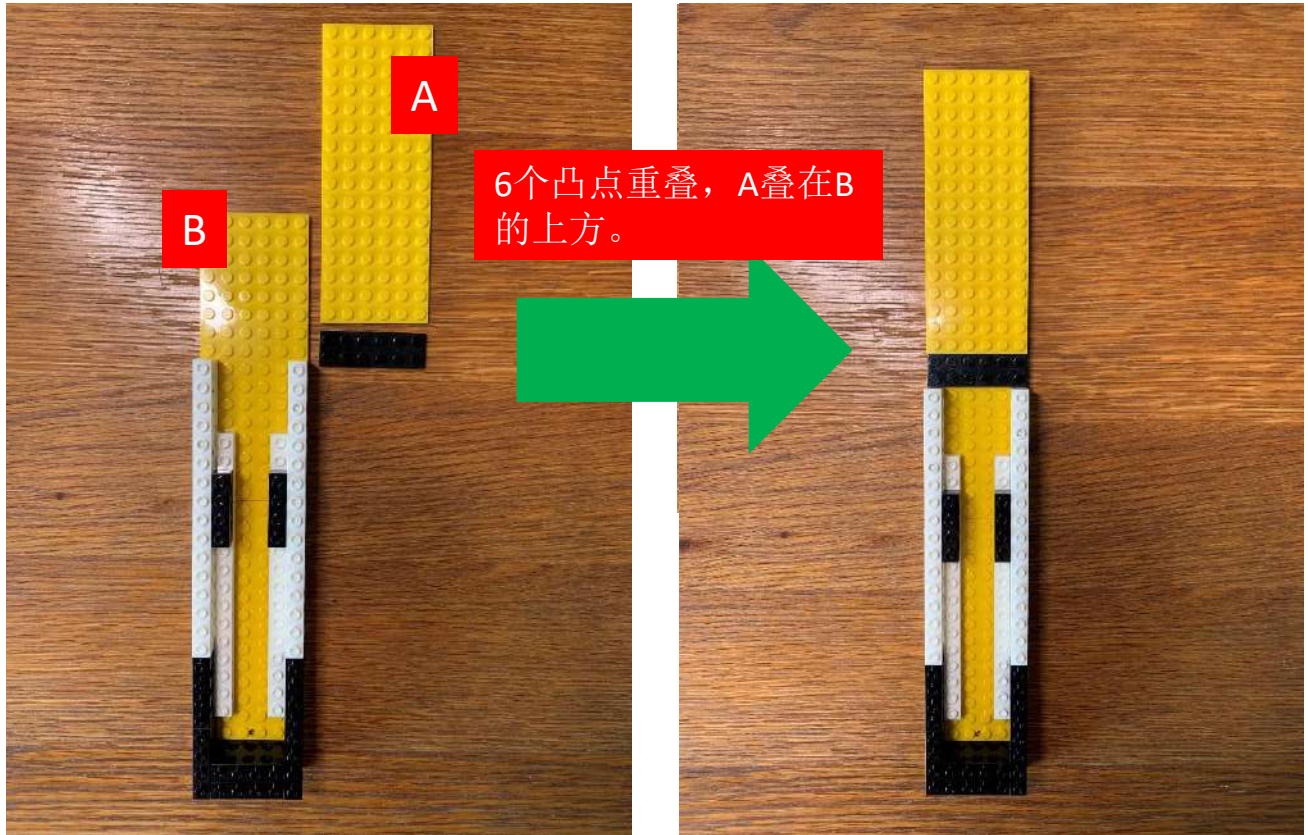


# Step 2

搭建提琴脊柱.

3/4 size spine

## Step 2e

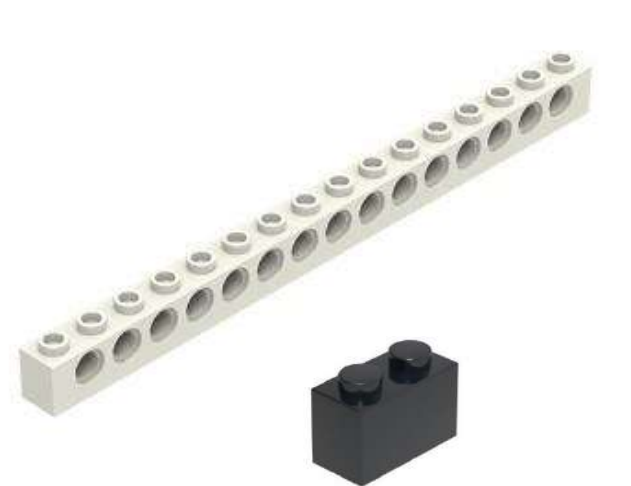
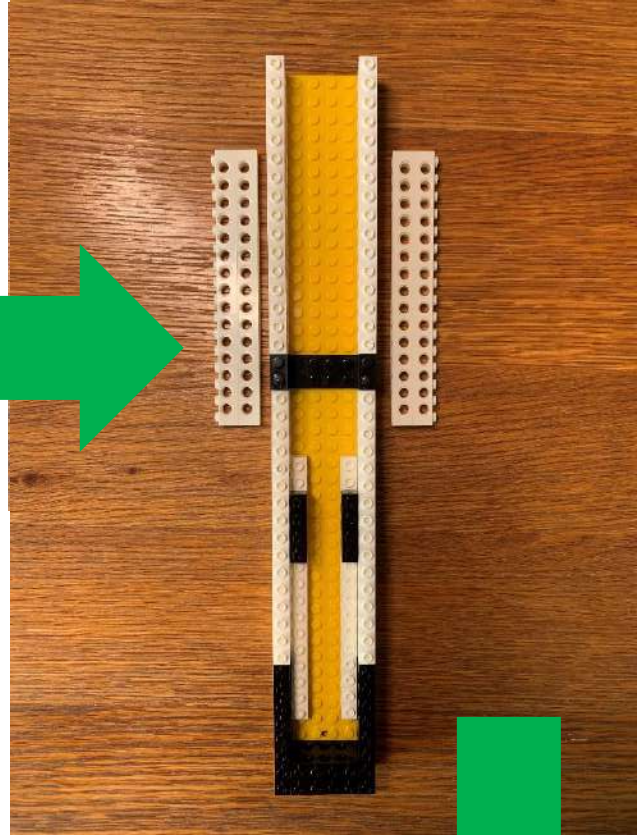
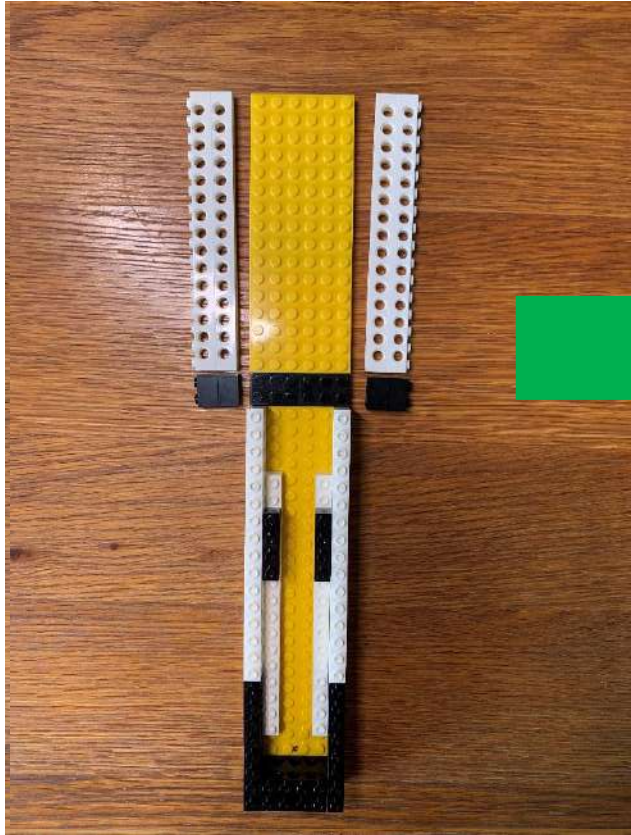


# Step 2

搭建提琴脊柱.

3/4 size spine

## Step 2f



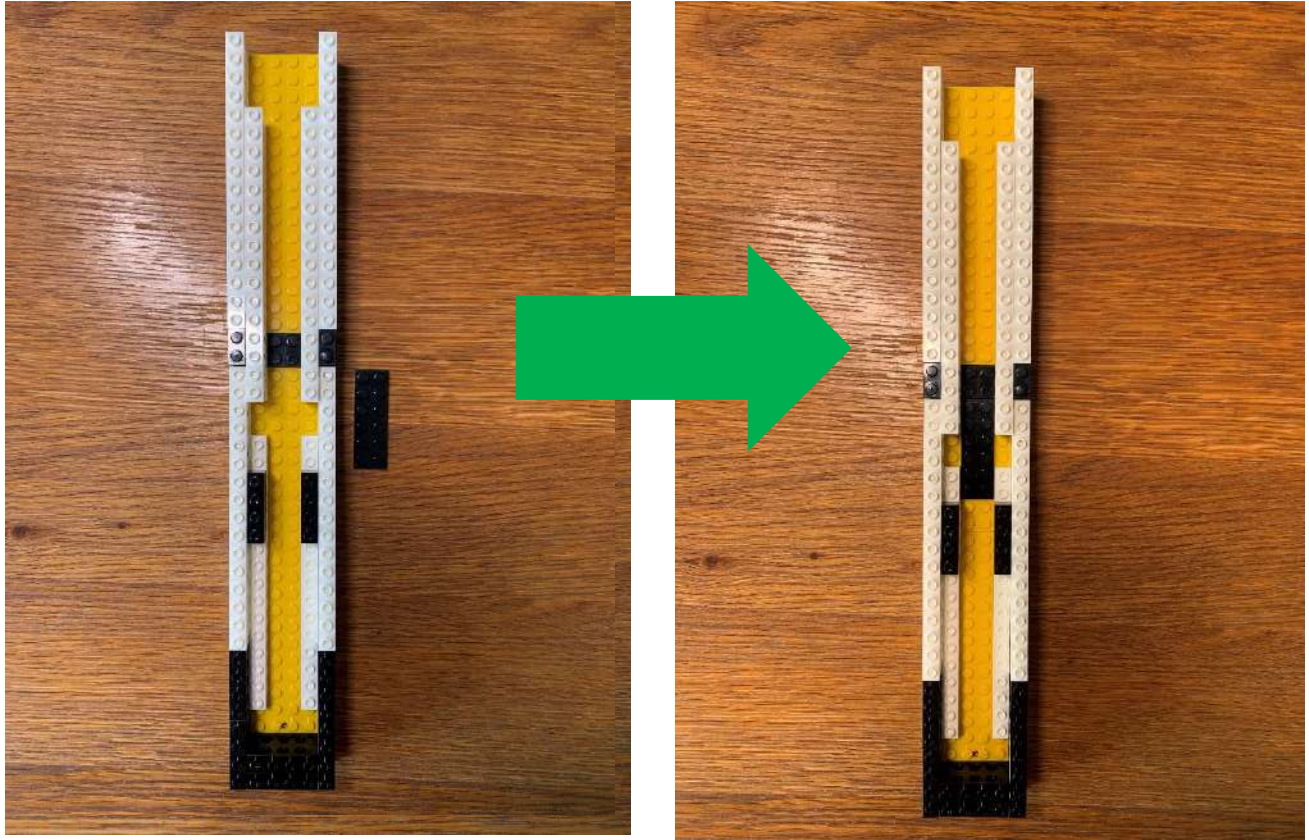


# Step 2

搭建提琴脊柱.

3/4 size spine

## Step 2g

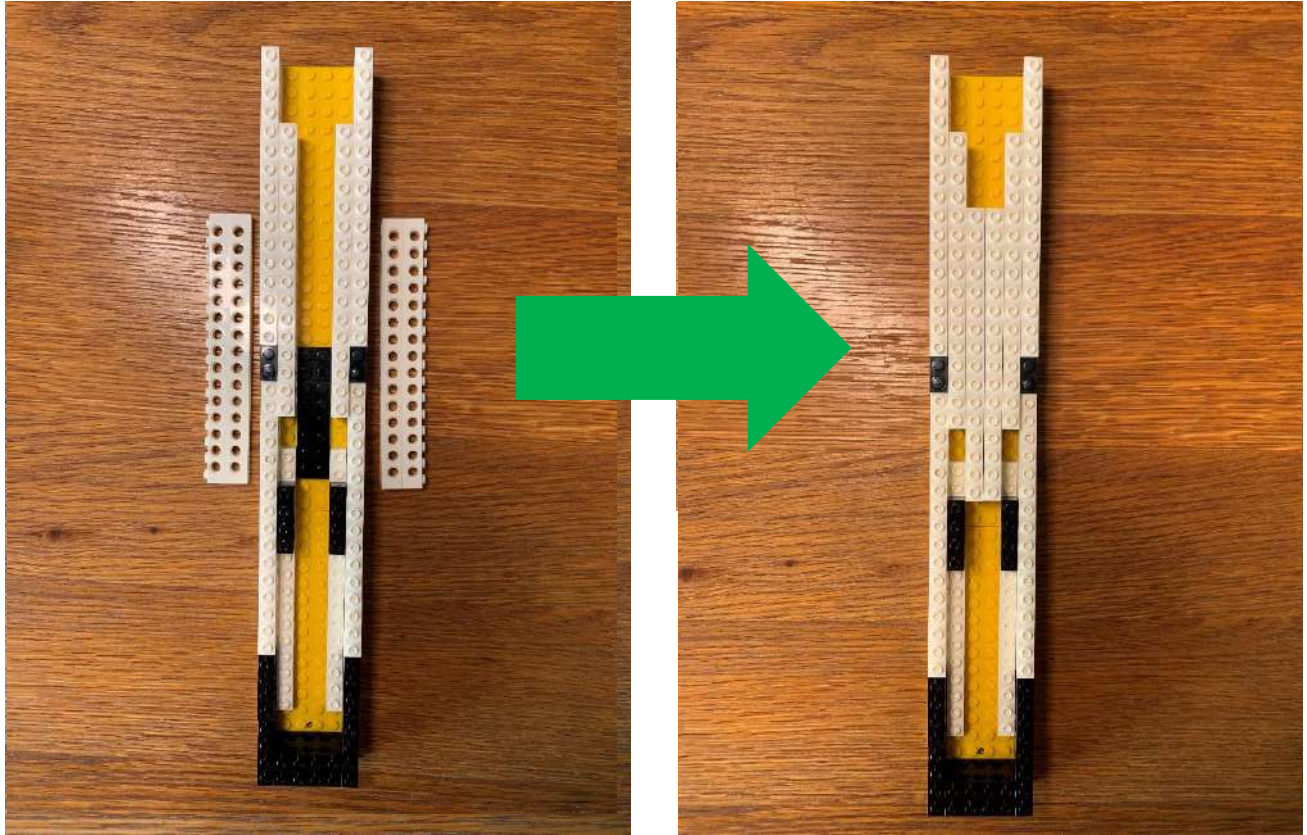


# Step 2

搭建提琴脊柱.

3/4 size spine

## Step 2h



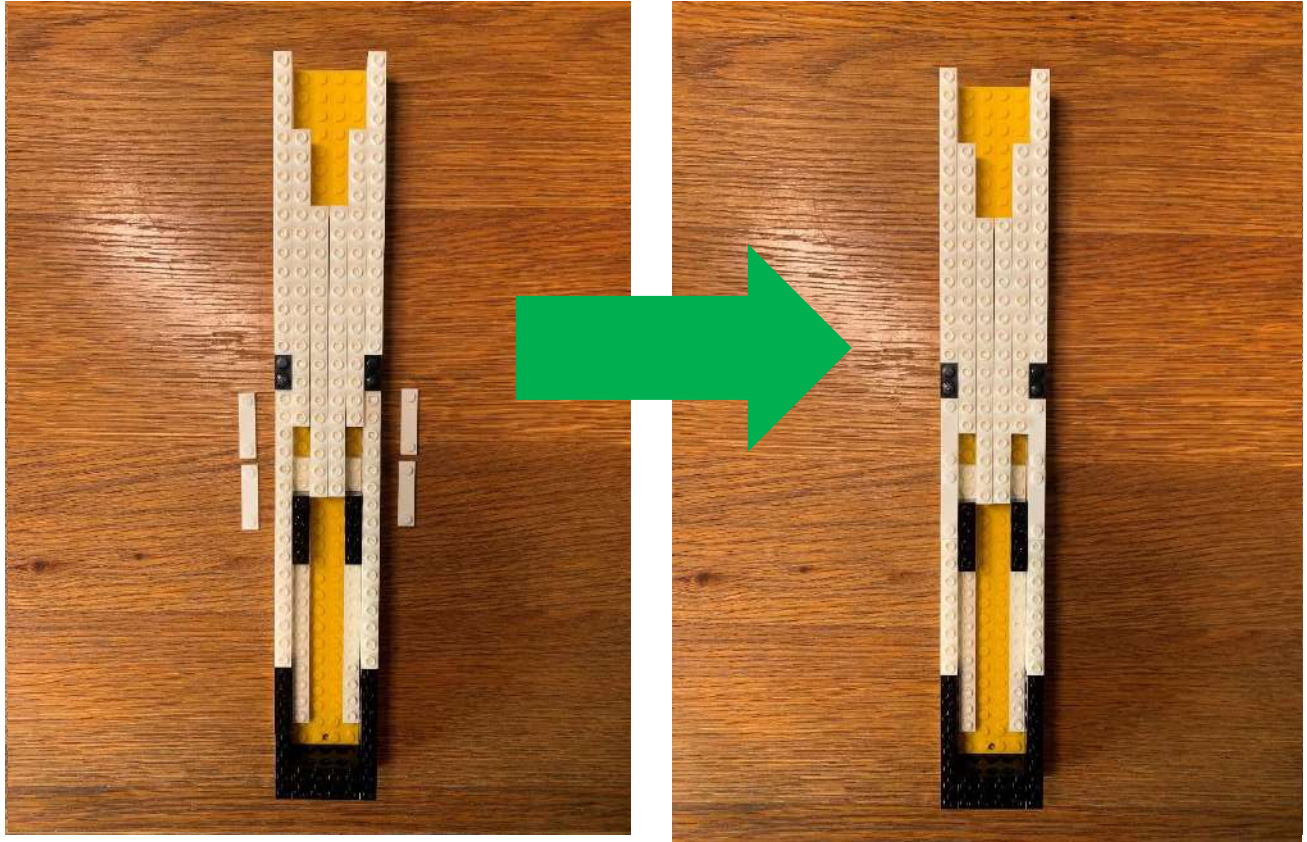


# Step 2

搭建提琴脊柱.

3/4 size spine

## Step 2i

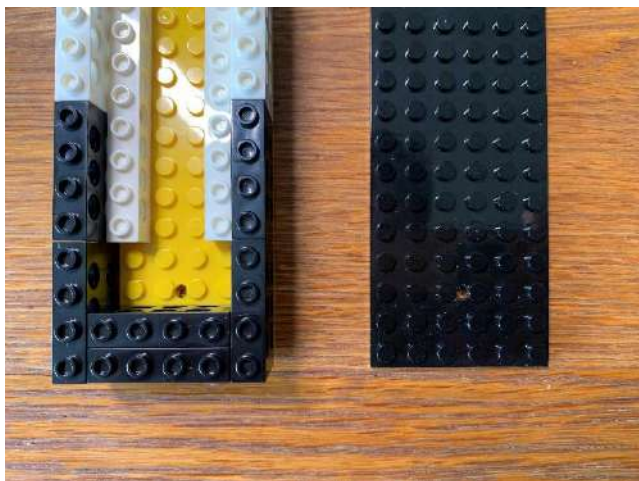
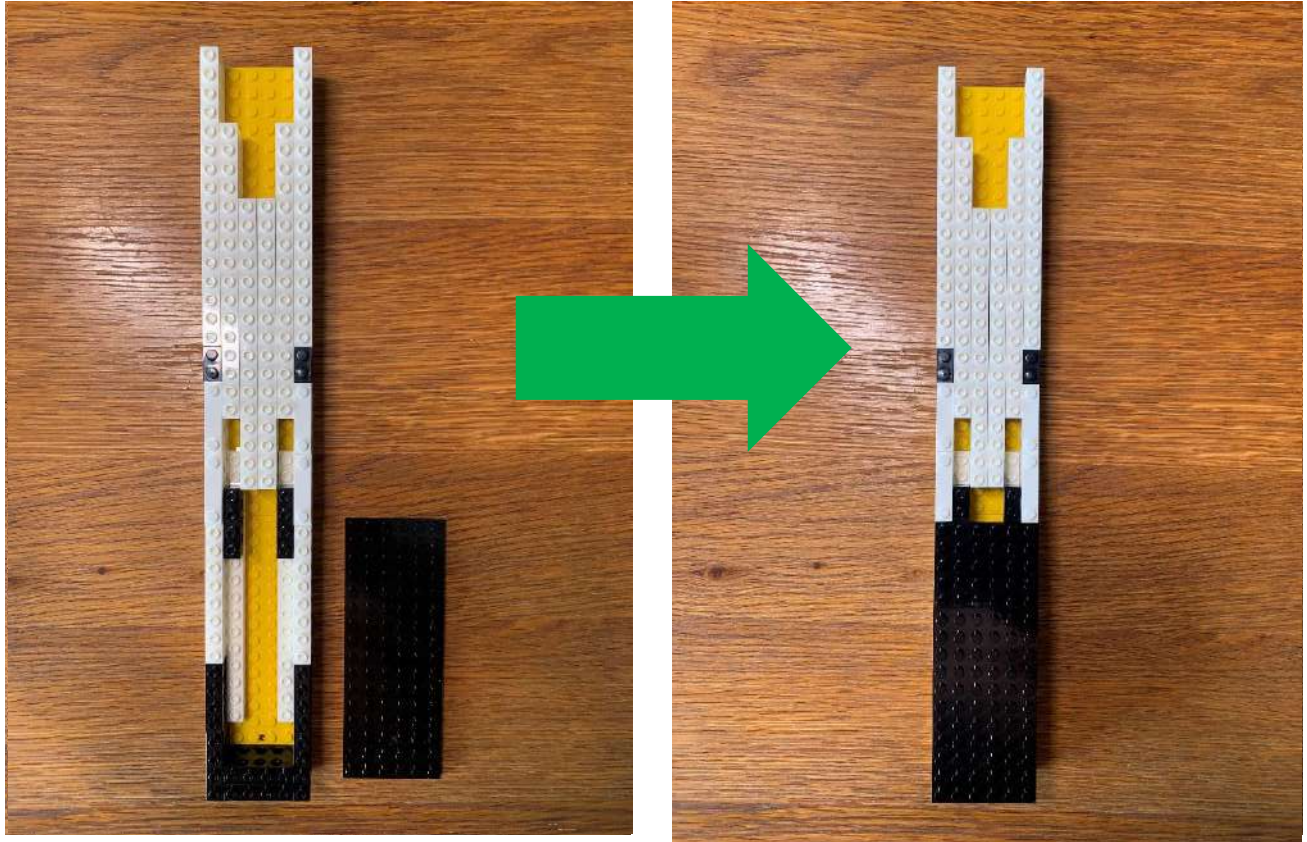


## Step 2

搭建提琴脊柱.

3/4 size spine

### Step 2j



#### Note:

确保底板是下半部分有孔的那一块。





## Step 2

搭建提琴脊柱.

3/4 size spine

### Note:

3/4 尺寸脊柱已经完成，请跳至39页

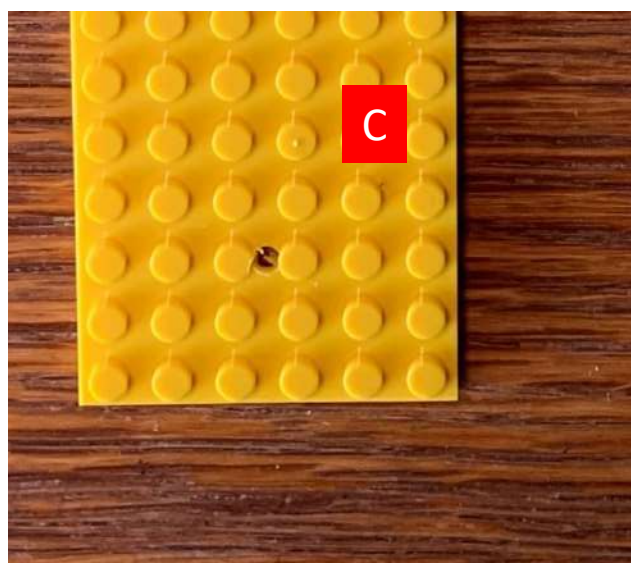
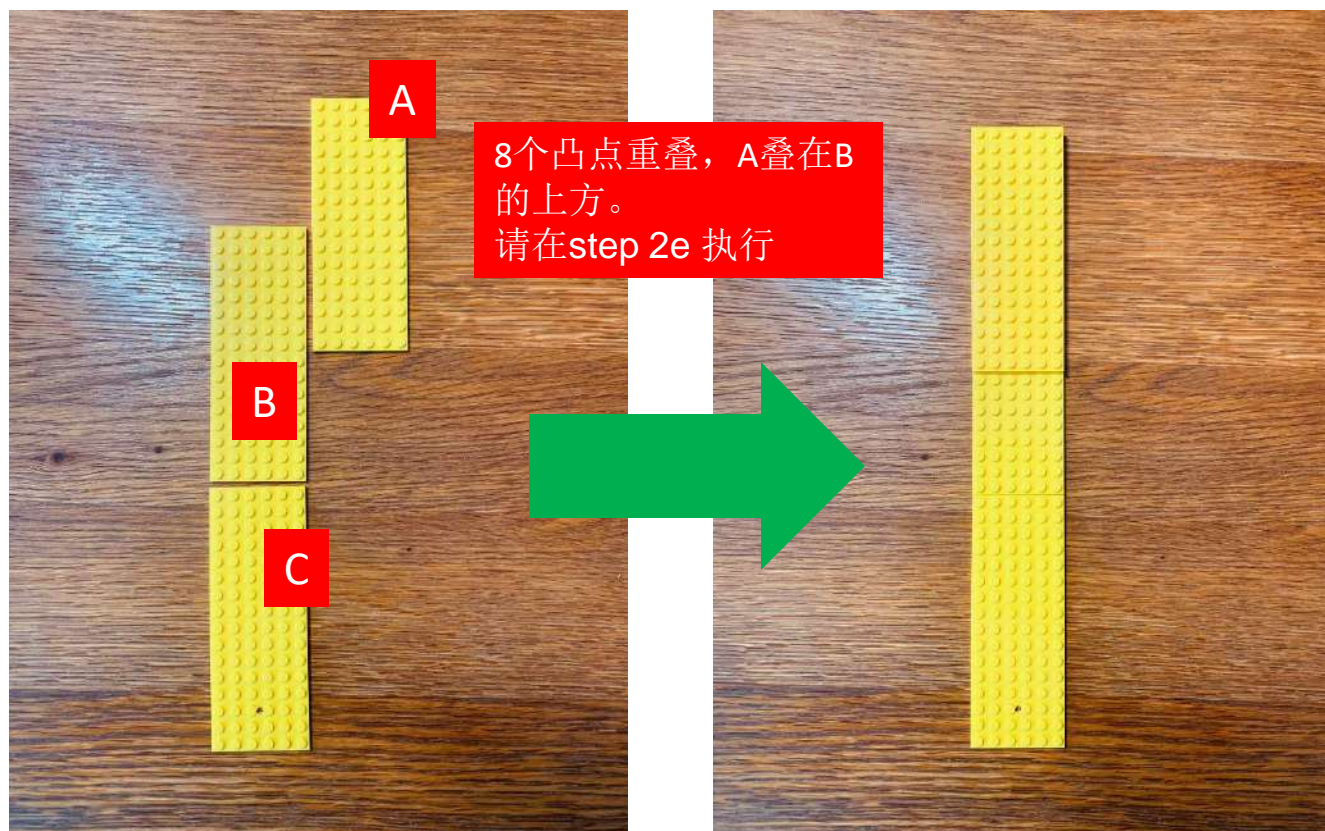


## Step 2

搭建提琴脊柱。

1/2 size spine

### Step 2a – 拼接脊柱底板



#### Note:

确保底板 (C) 是下半部分有孔的那块板。



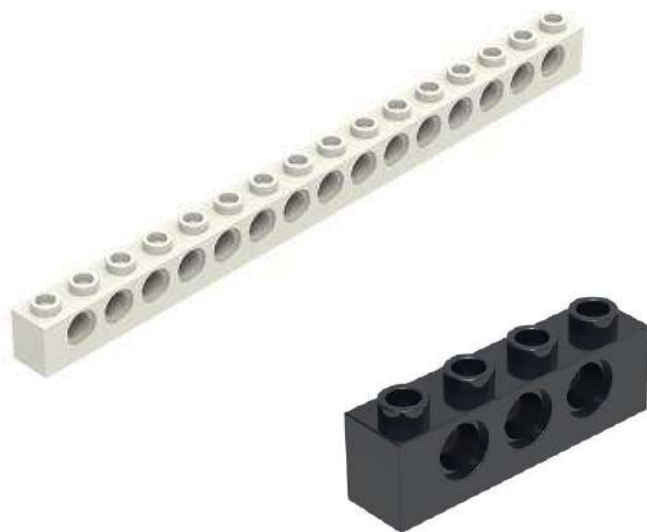
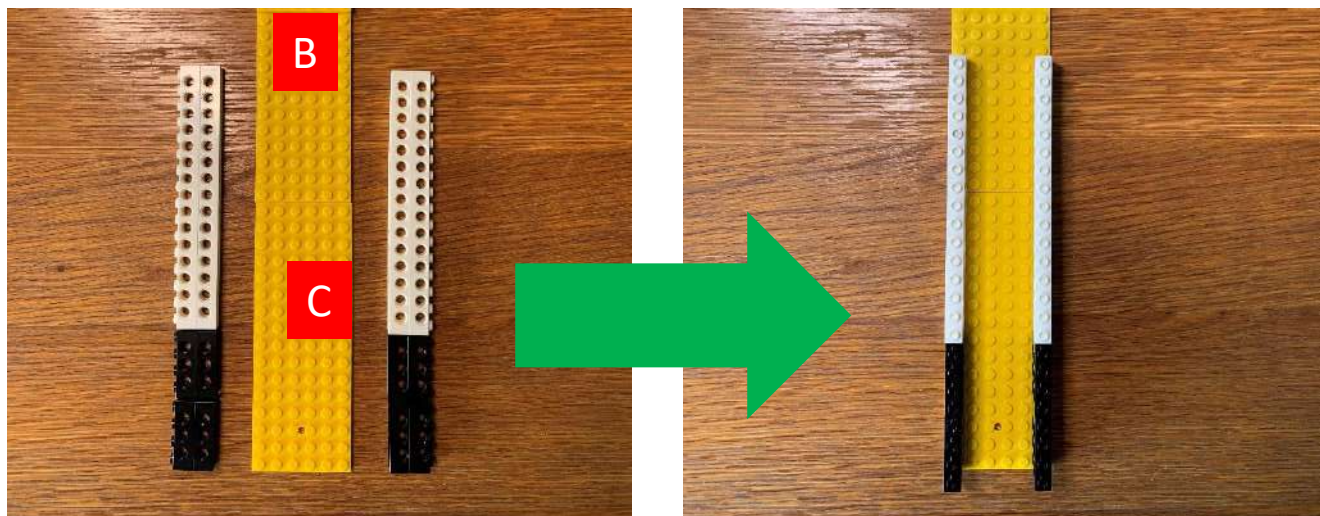


## Step 2

搭建提琴脊柱.

1/2 size spine

### Step 2b 连接 B 和 C

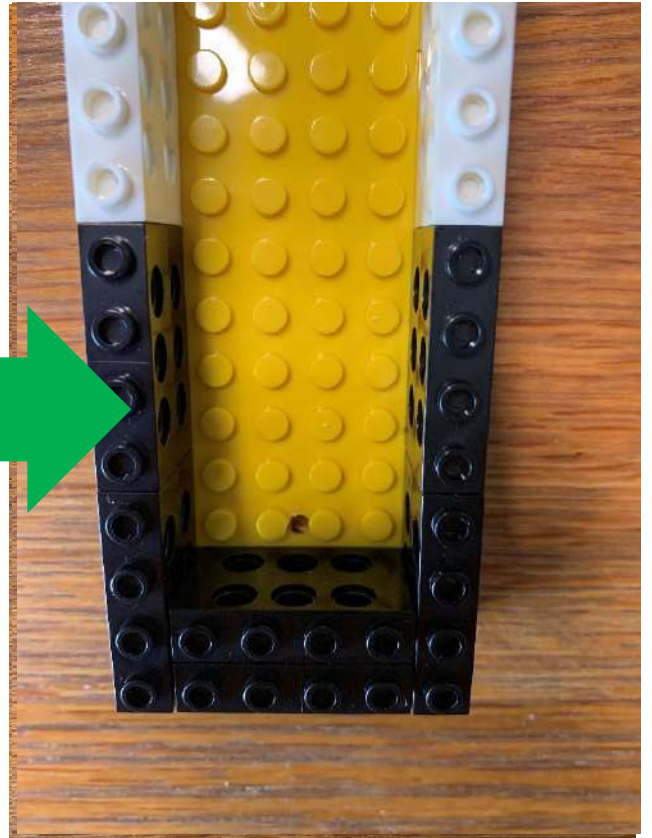
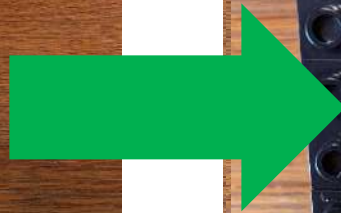
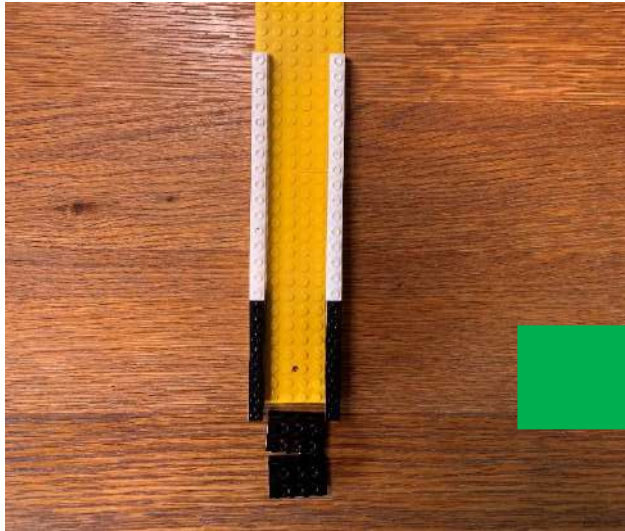


# Step 2

搭建提琴脊柱.

1/2 size spine

## Step 2c



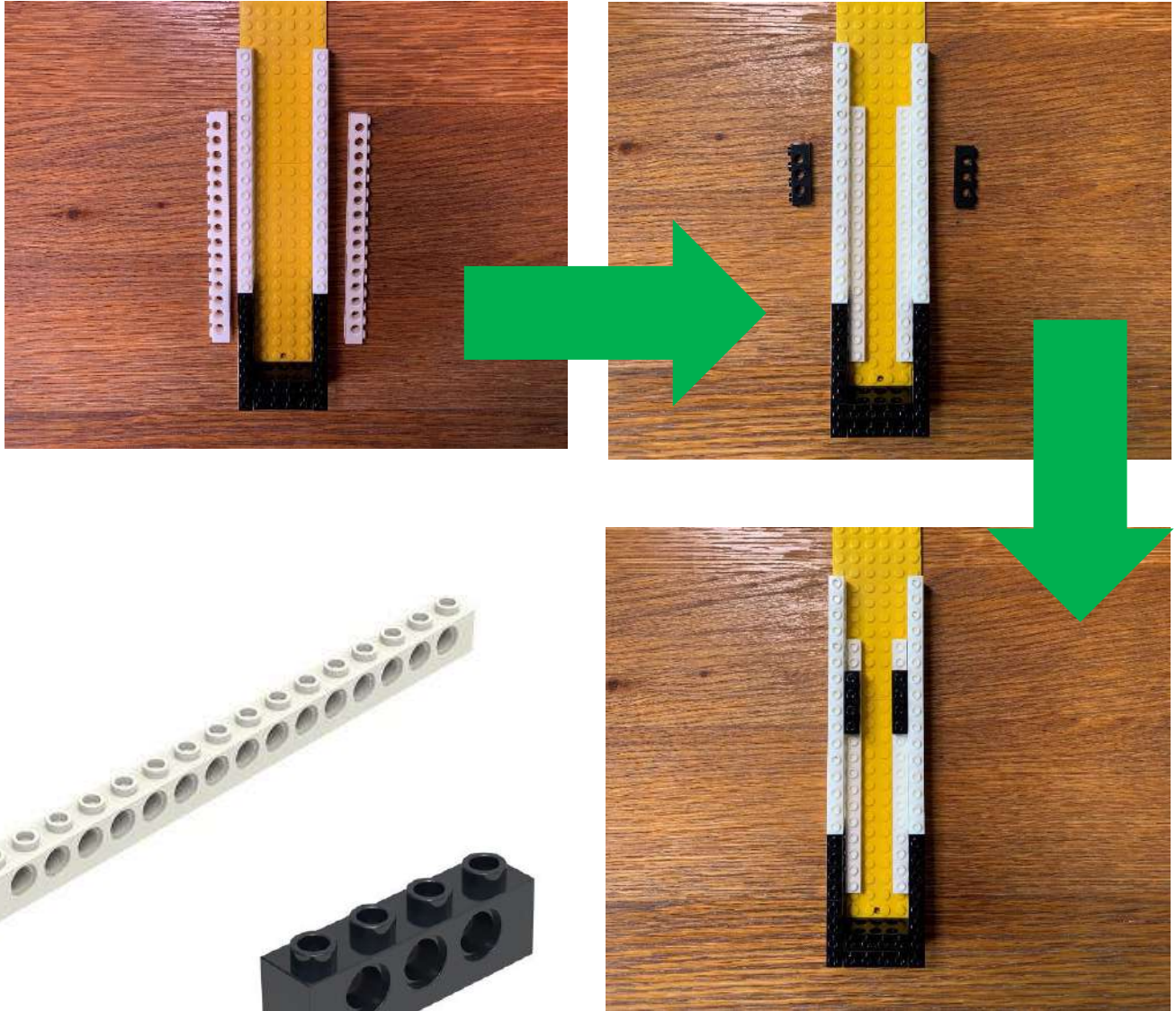


# Step 2

搭建提琴脊柱.

1/2 size spine

## Step 2d

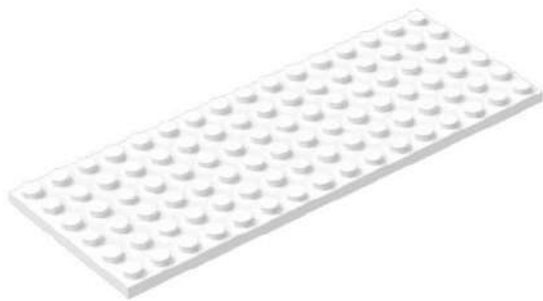
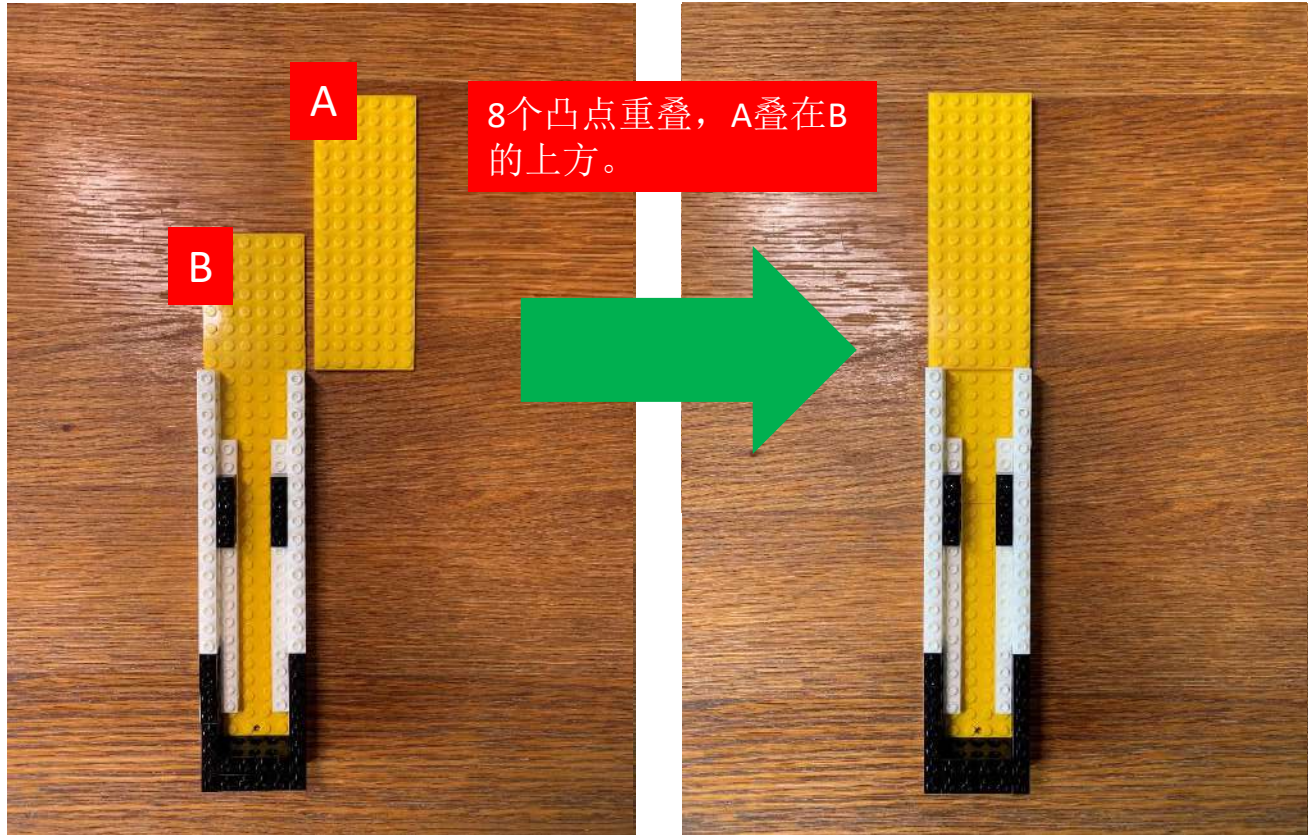


## Step 2

搭建提琴脊柱.

1/2 size spine

### Step 2e



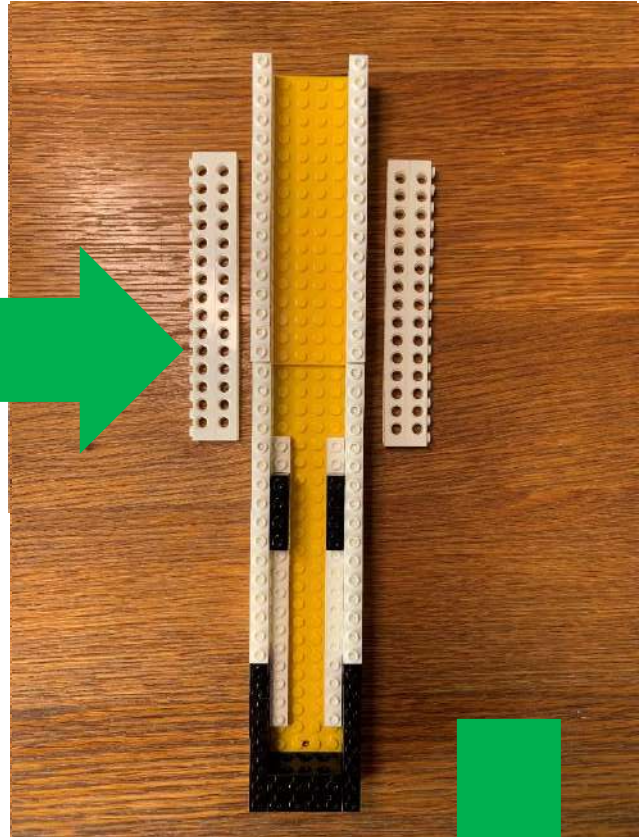
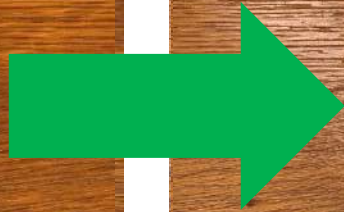
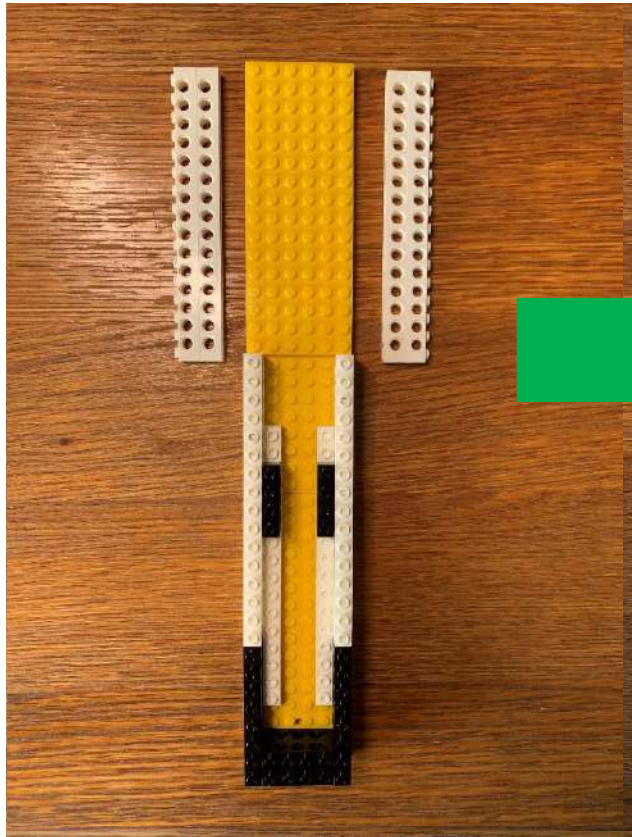


# Step 2

搭建提琴脊柱.

1/2 size spine

## Step 2f

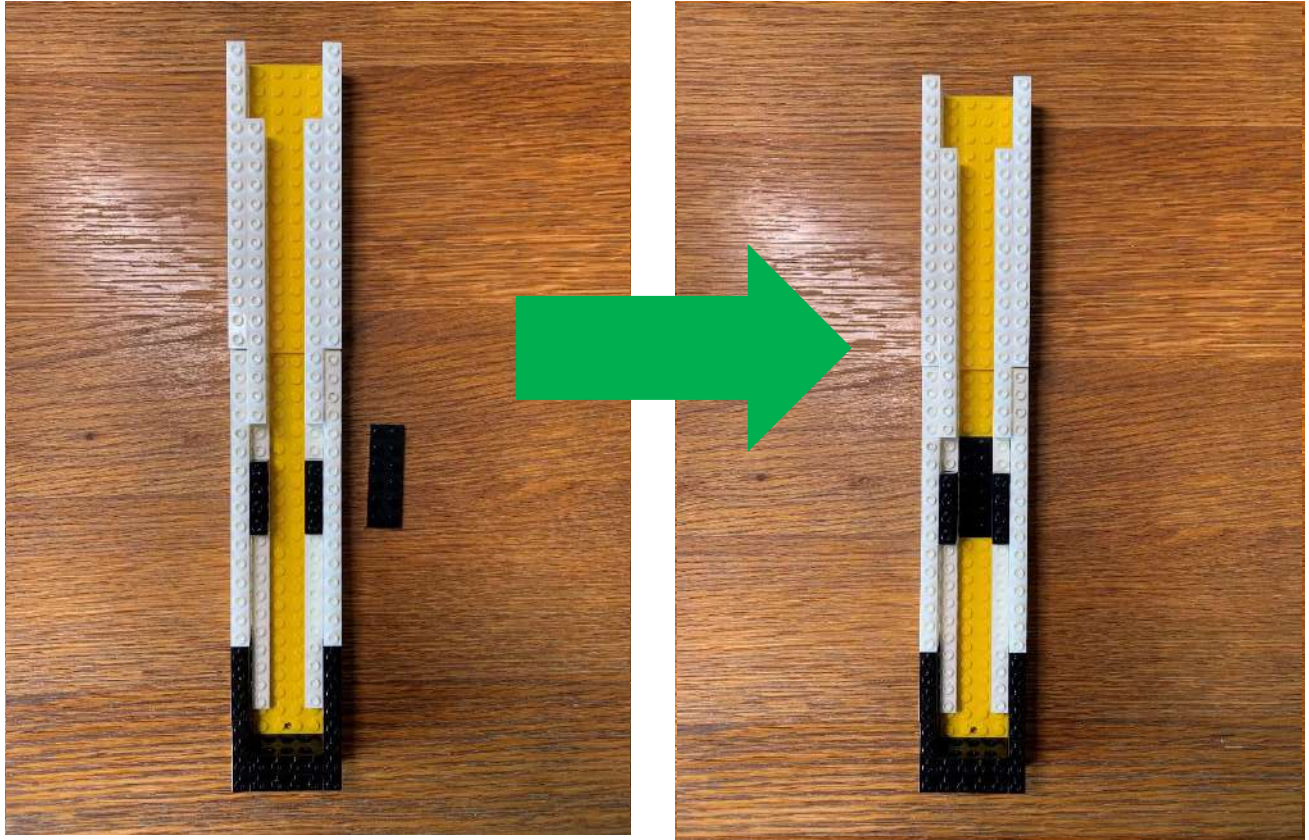


# Step 2

搭建提琴脊柱.

1/2 size spine

## Step 2g



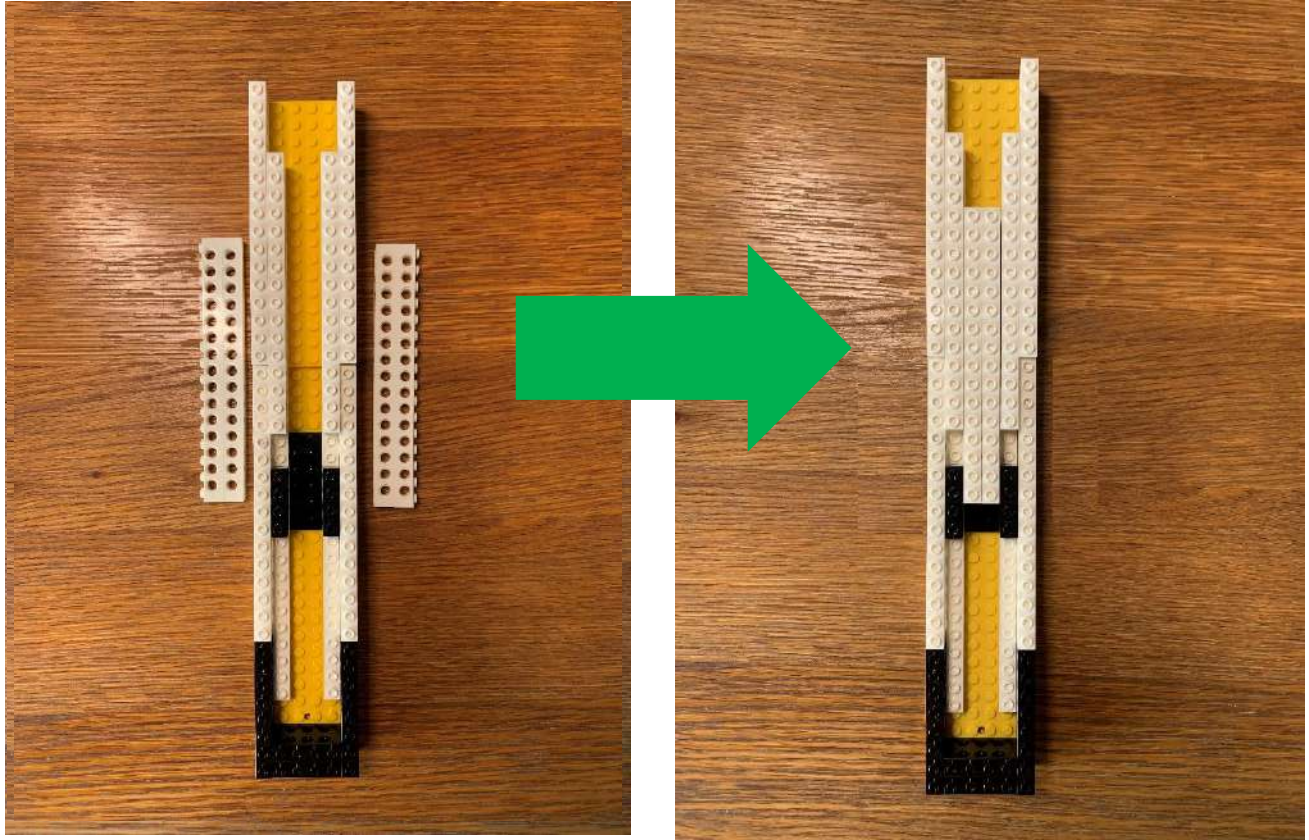


# Step 2

搭建提琴脊柱.

1/2 size spine

## Step 2h

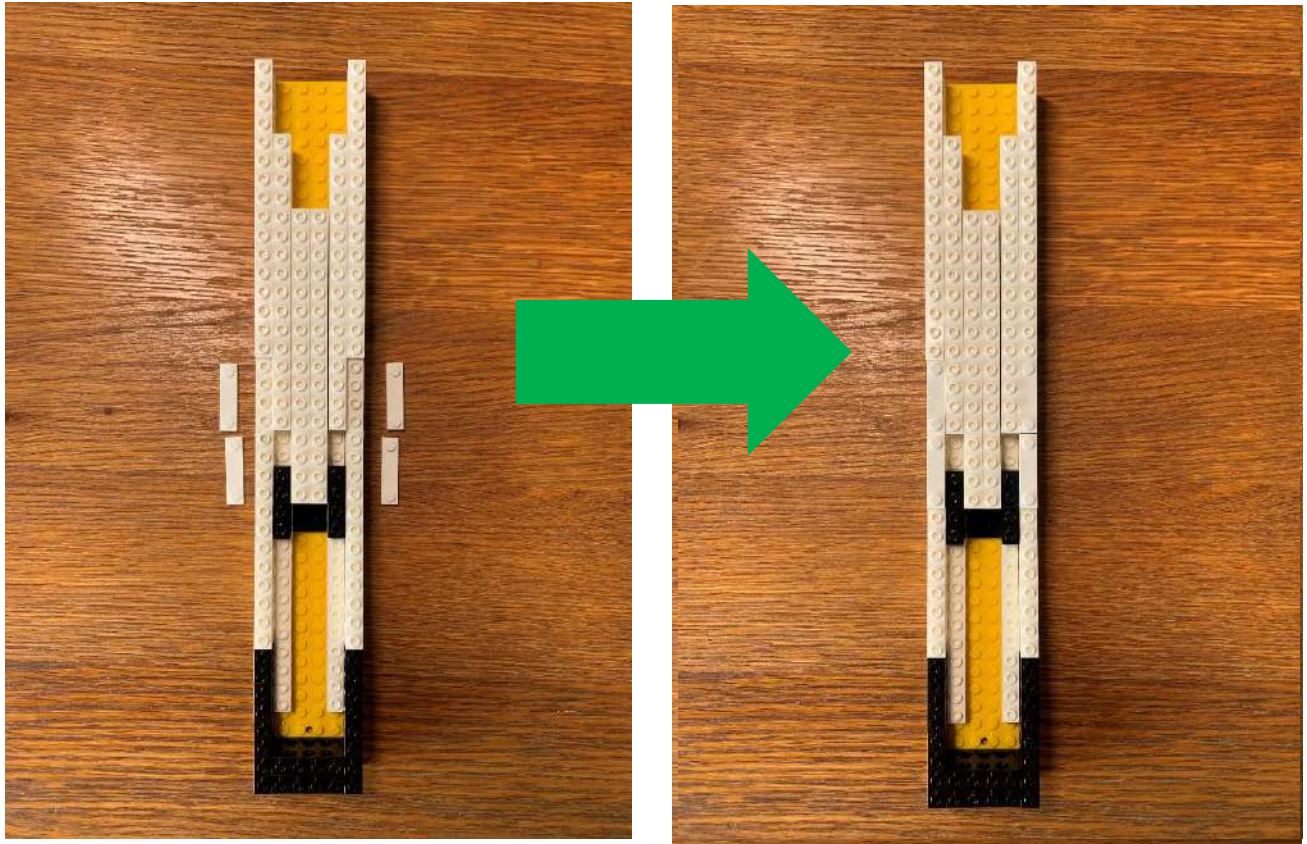


# Step 2

搭建提琴脊柱.

1/2 size spine

## Step 2i



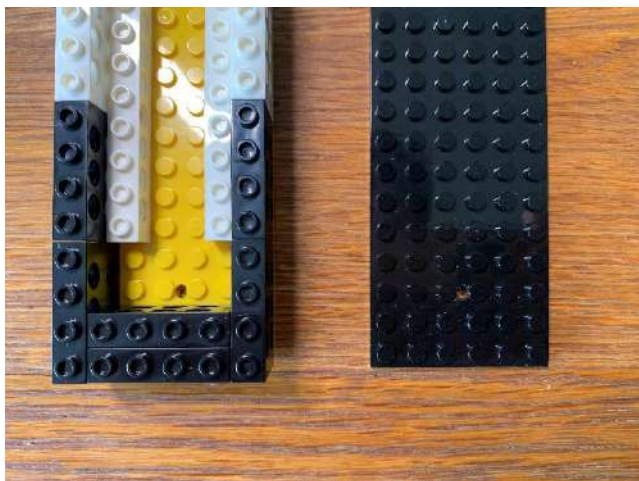
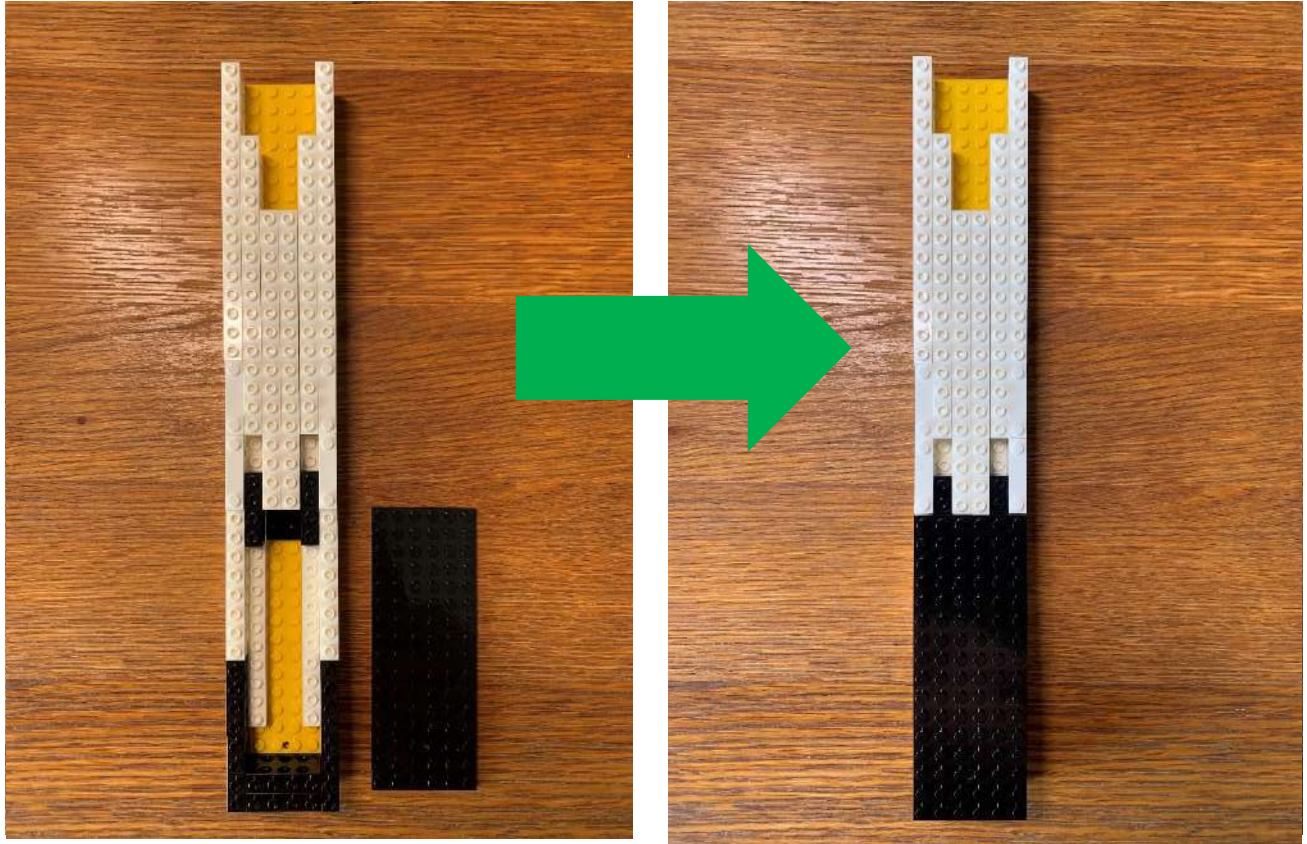


## Step 2

搭建提琴脊柱.

1/2 size spine

### Step 2j



#### Note:

确保底板是下半部分有孔的那一块。



## Step 2

搭建提琴脊柱.

1/2 size spine

### Note:

1/2 尺寸脊柱已经完成，请跳至39页



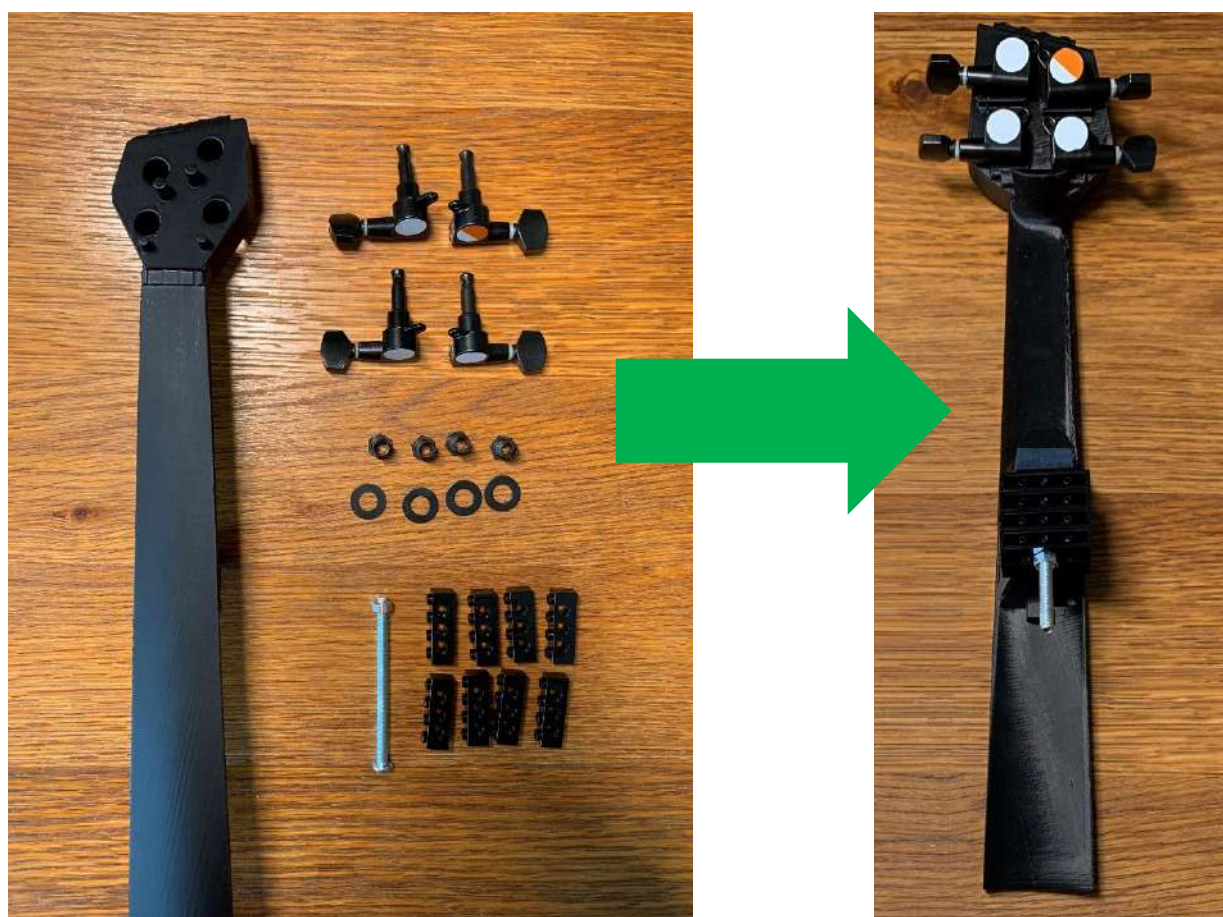


## Step 3

搭建琴头和弦钮

### Note:

在某些产品版本中，琴头和弦钮已经完成，请直接跳至第四步



## Step 3

搭建琴头和弦钮

### Step 3a – 安装弦钮

将4个弦钮从背后插入，确保与下方图示完全一致。用力将弦钮向内推，以尽量减少表面之间的缝隙。



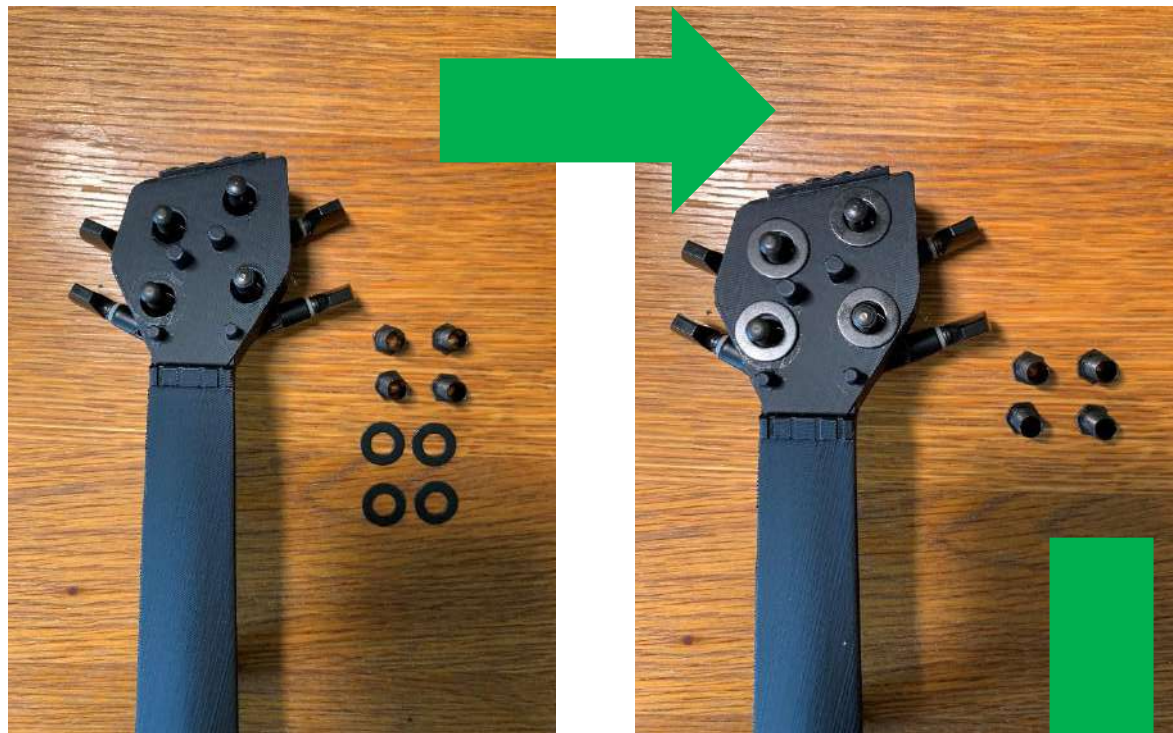


# Step 3

搭建琴头和弦钮

## Step 3b –安装弦钮

安装垫片  
扭紧螺丝



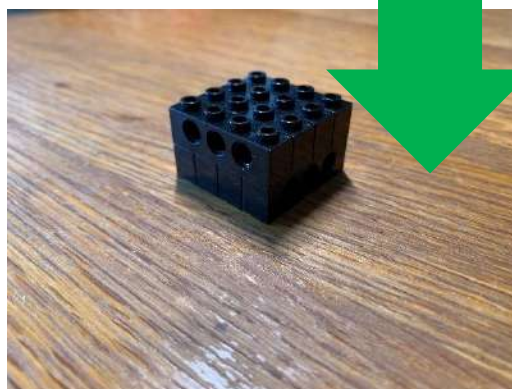
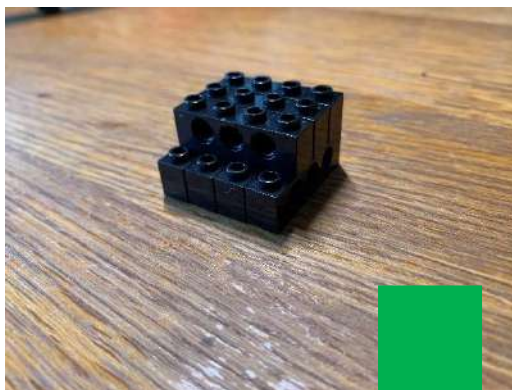
**Note:**

这个工具可能会帮助到你.

# Step 3

搭建琴头和弦钮

## Step 3c – 制作一个积木块





# Step 3

搭建琴头和弦钮

## Step 3d – 连接积木块和琴头

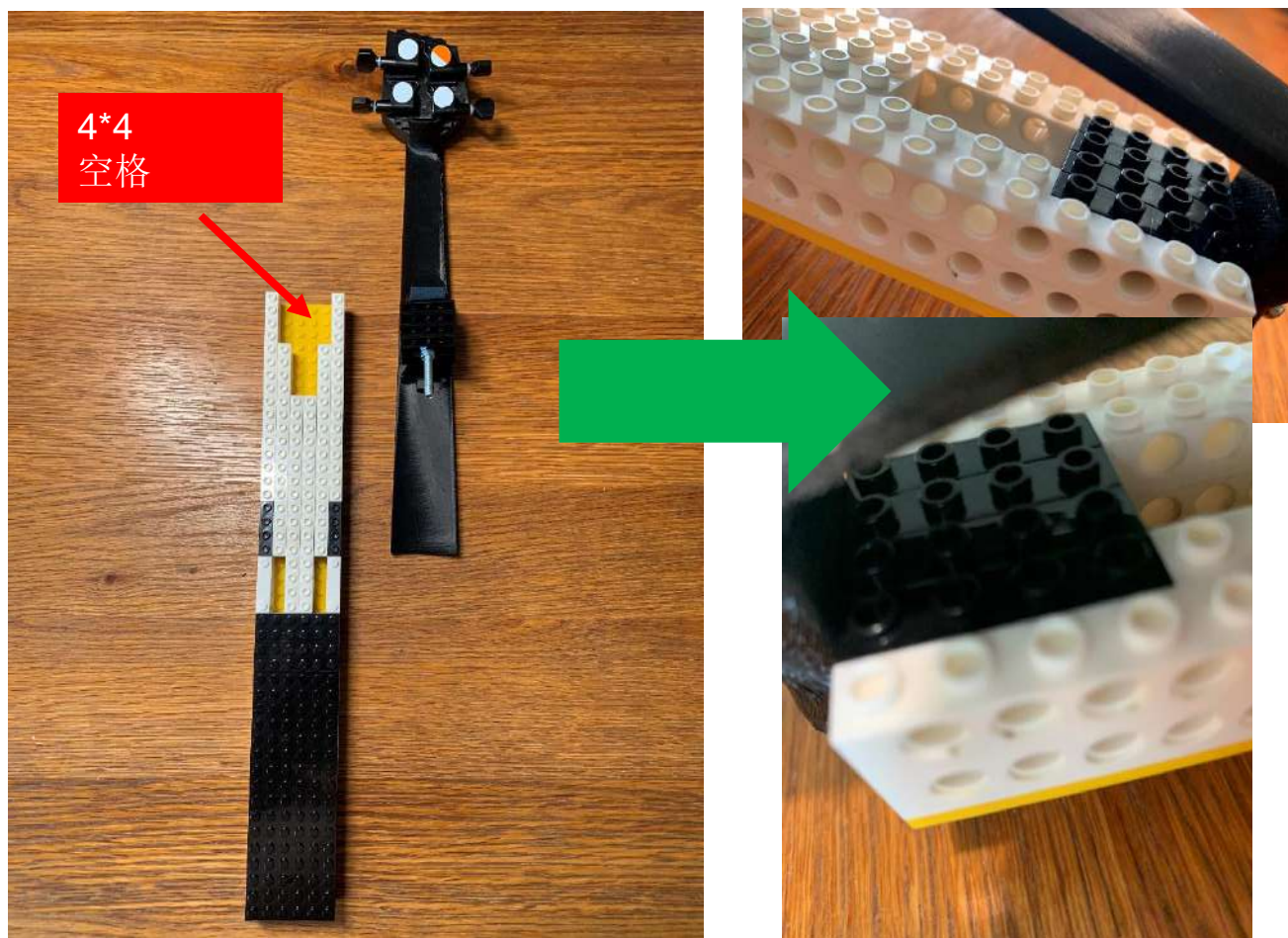


# Step 4

连接琴头和脊柱

## Step 4a

将琴头的方块放入脊柱的4\*4空格内，摁紧

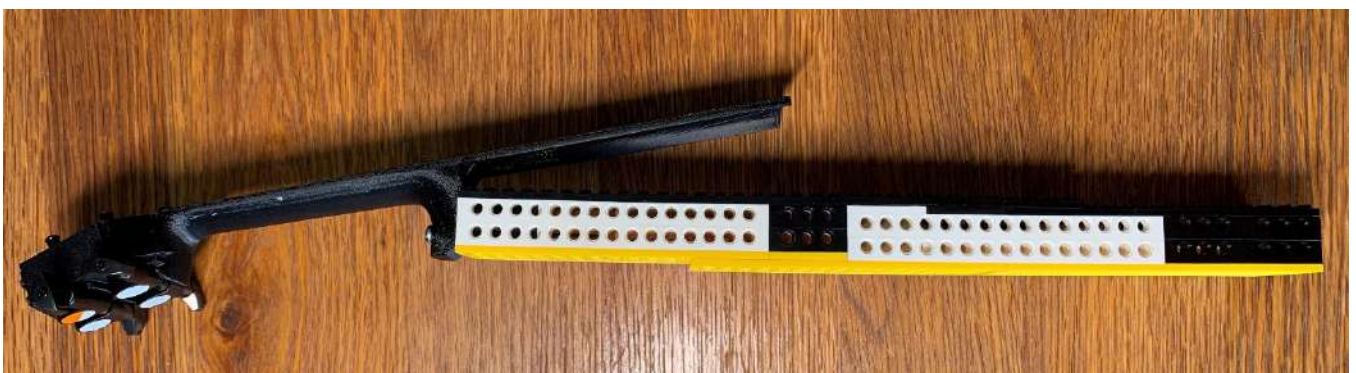




# Step 4

连接琴头和脊柱

## Step 4b



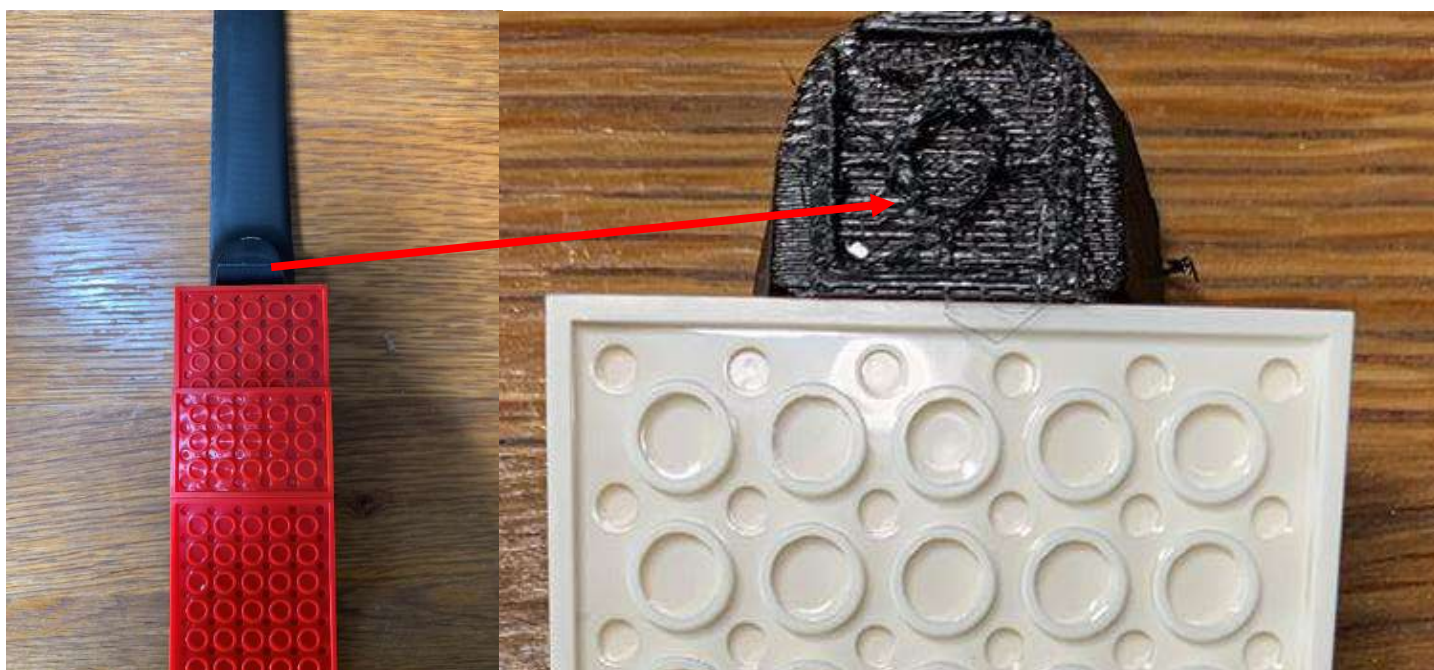


## Step 4

锁定琴头和脊柱

### Step 4c – 非必要步骤

在某些版本的产品中，您可能会看到琴头尾部有2\*2的乐高底板



如果是这样的情况，您可以用以下方法进一步锁定琴头和琴身



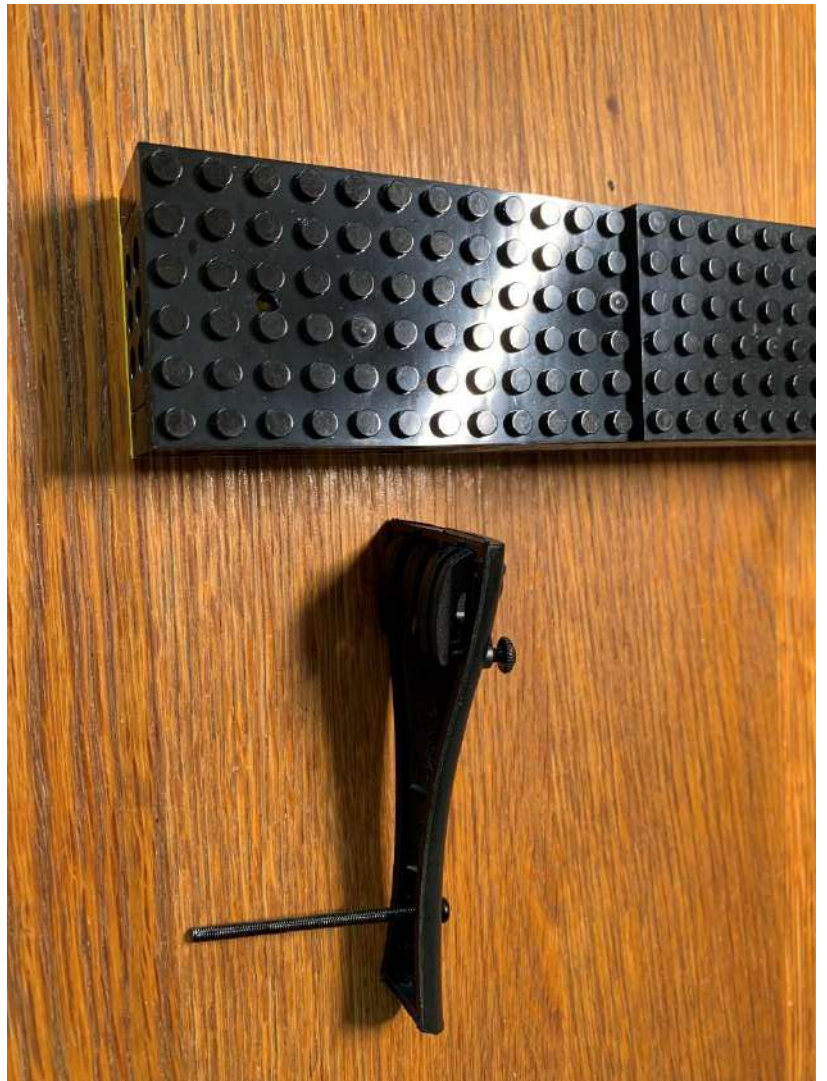


# Step 5

安装拉弦板

## Step 5a

将螺丝穿过拉弦板下方的洞中。



# Step 5

安装拉弦板

## Step 5b

将螺丝和拉弦板继续一同穿入脊柱下方的孔中。





# Step 5

安装拉弦板

## Step 5c

放置1-2个圆形零件在螺丝末端，上螺帽



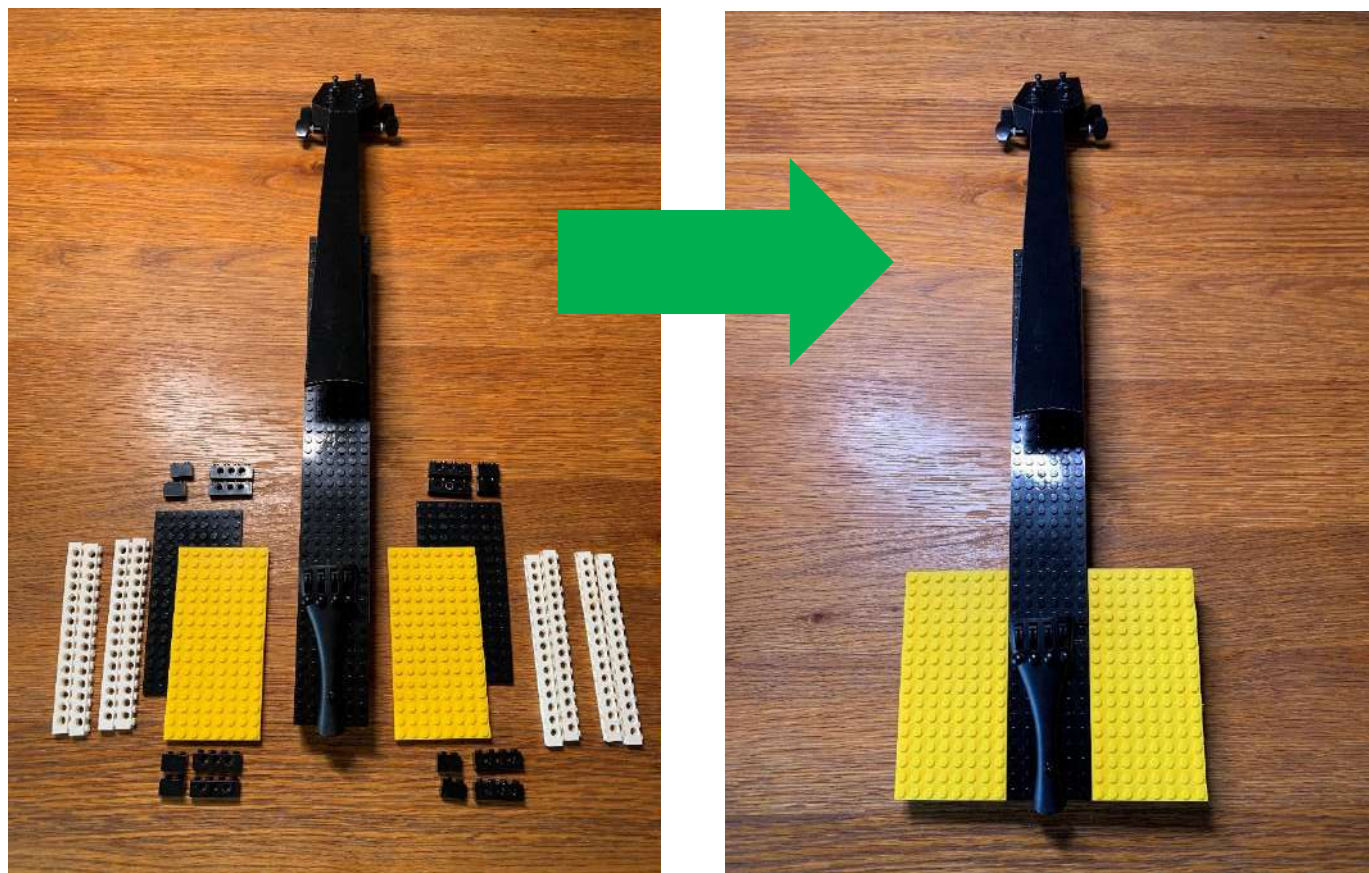
### Note:

螺丝不要上的太紧，请留一些可以活动的空间，拉弦板需要和脊柱呈一定角度，可以自如的拉起来。



# Step 6

搭建侧边盒并连接脊柱

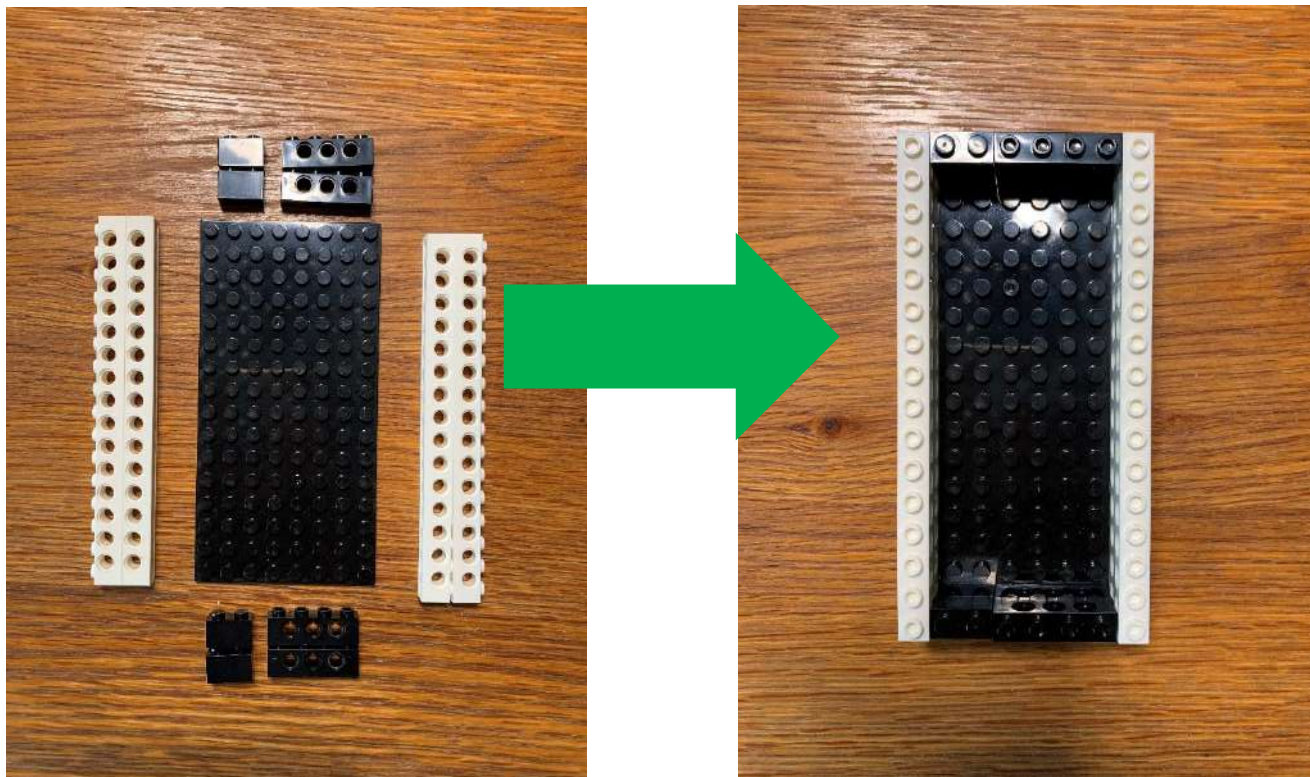




# Step 6

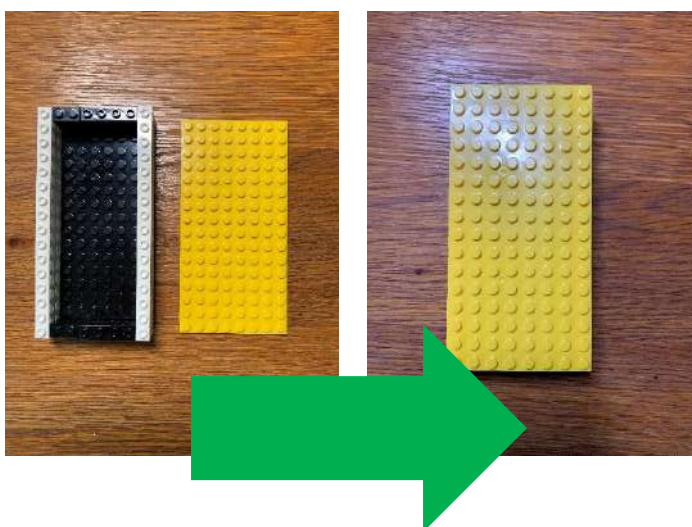
搭建侧边盒并连接脊柱

## Step 6a



### Note:

重复以上动作搭建第二个侧边盒



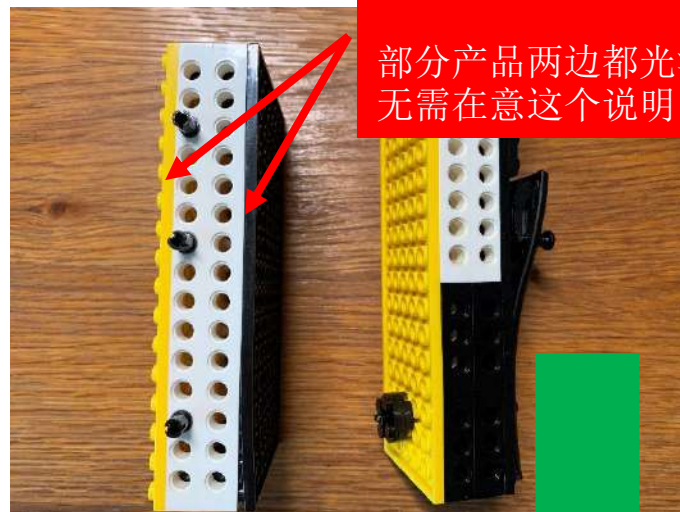
# Step 6

搭建侧边盒并连接脊柱

## Step 6b – 连接脊柱



请确保和脊柱连接的面是光滑的。



部分产品两边都光滑则无需在意这个说明

### Note:



将三个圆柱插入盒子侧面的圆孔中，位置随机即可

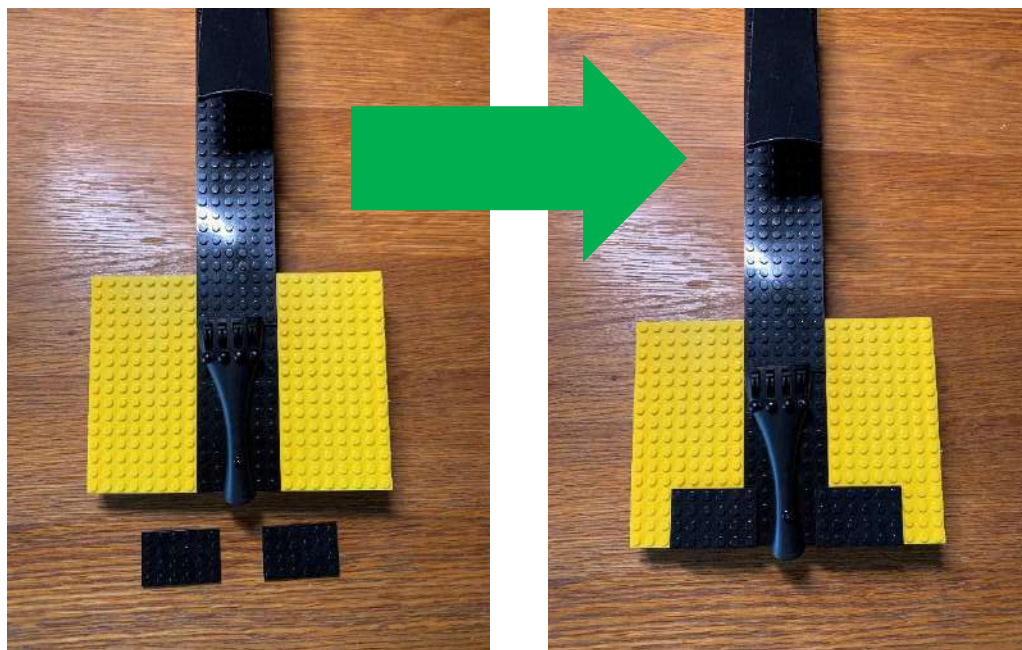




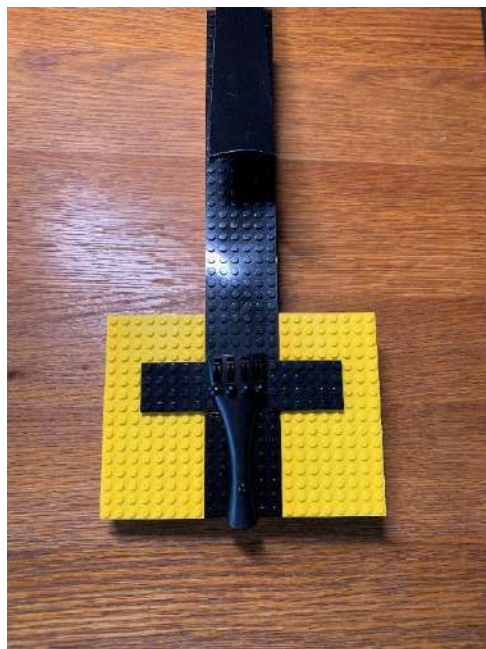
# Step 7

锁定侧边盒和脊柱

## Step 7a – 正面锁定 选择1



选择2



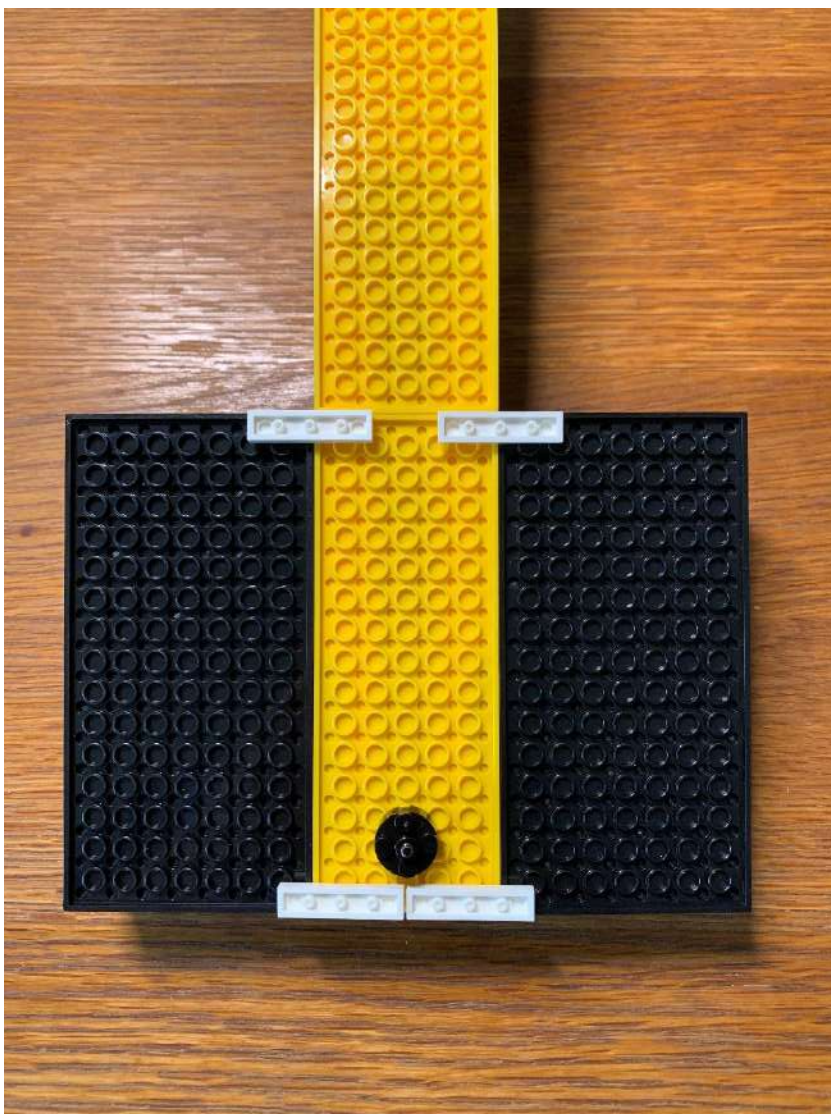
选择3 - 用其他颜色板锁定



# Step 7

锁定侧边盒和脊柱

## Step 7b – 背面锁定

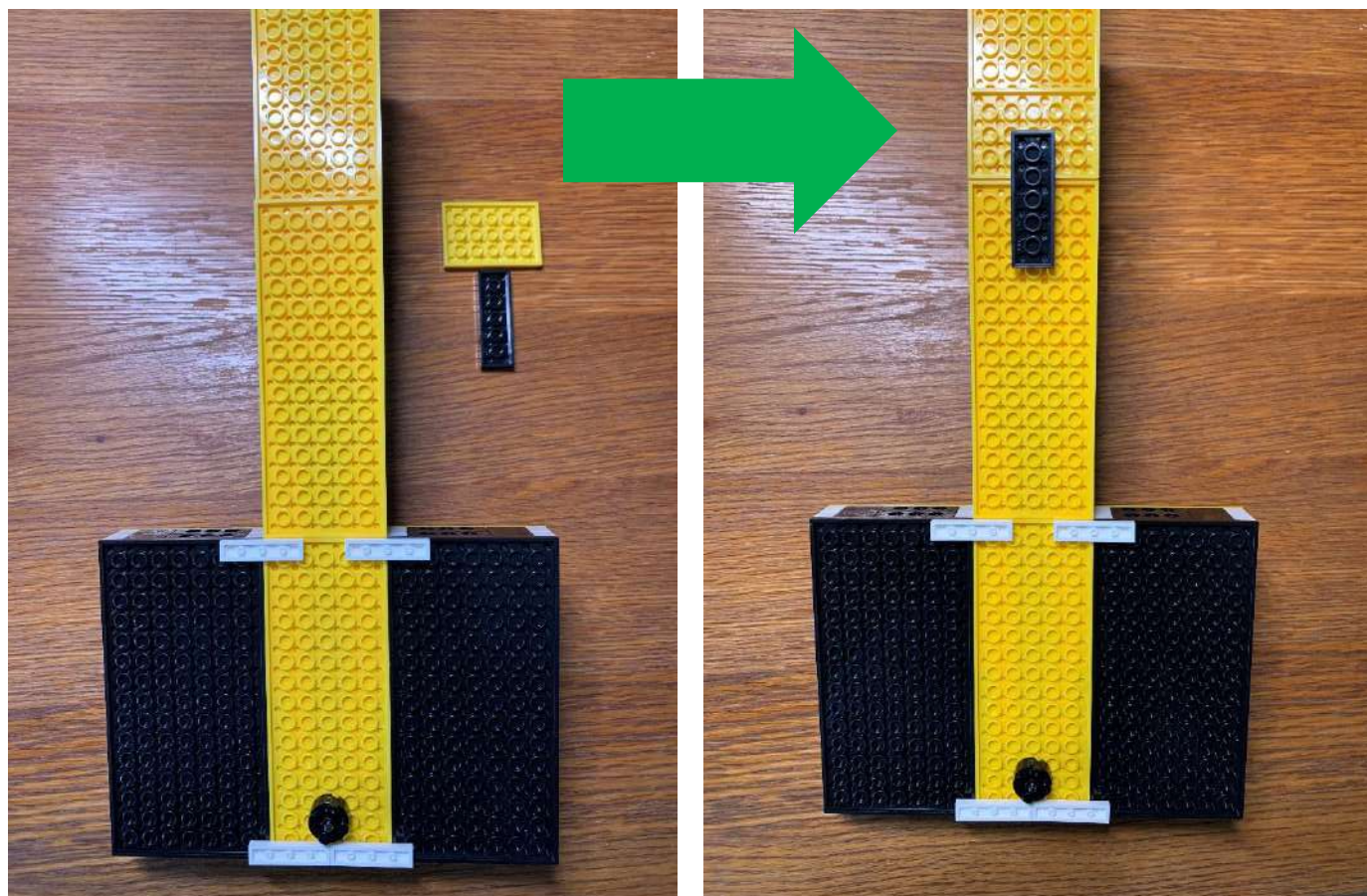




# Step 7

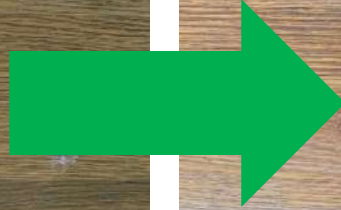
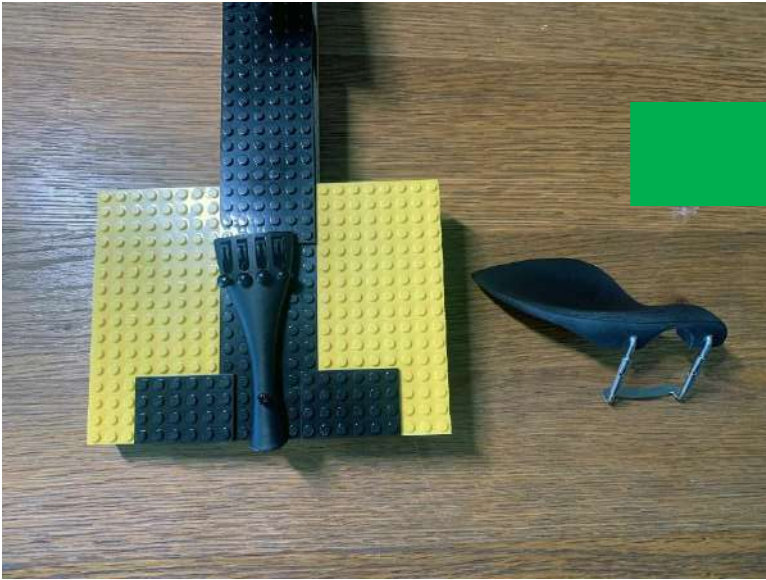
锁定侧边盒和脊柱

## Step 7b – 背面锁定



# Step 8

安装腮托





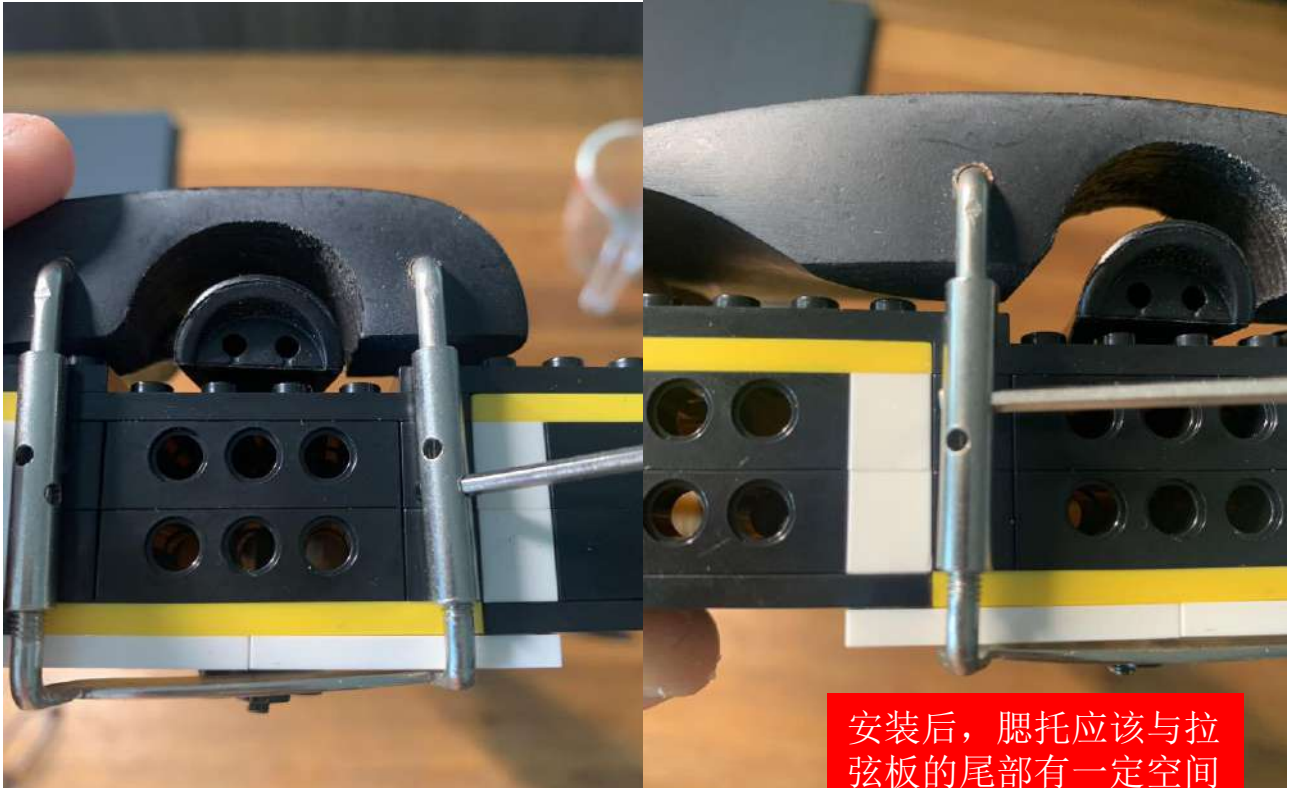
# Step 8

安装腮托

## Step 8a

将腮托放置于琴颈底部，确保居中对齐。

使用小螺丝刀，将一侧插入孔中并顺时针旋转。换到另一个孔，重复相同操作，直到非常紧固。



安装后，腮托应该与拉弦板的尾部有一定空间  
这样拉弦板可以翘起一定角度



可以使用以下零件垫在琴身尾部，以创造这个空间

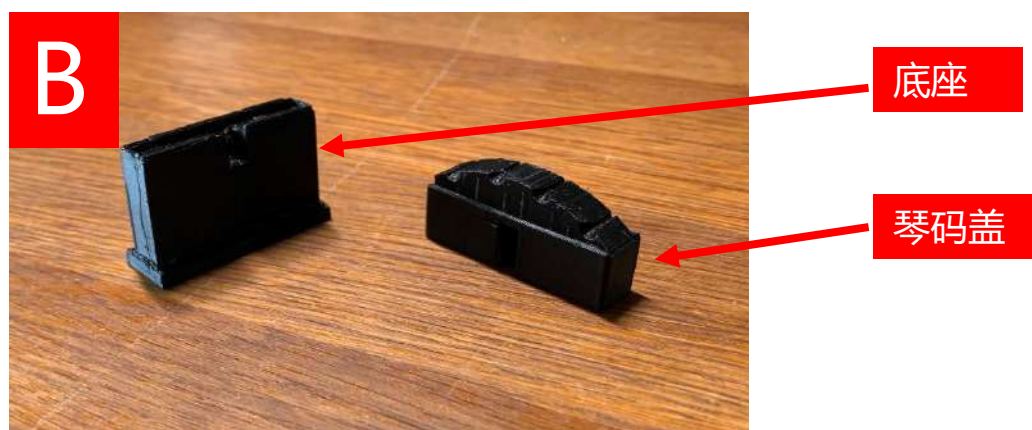
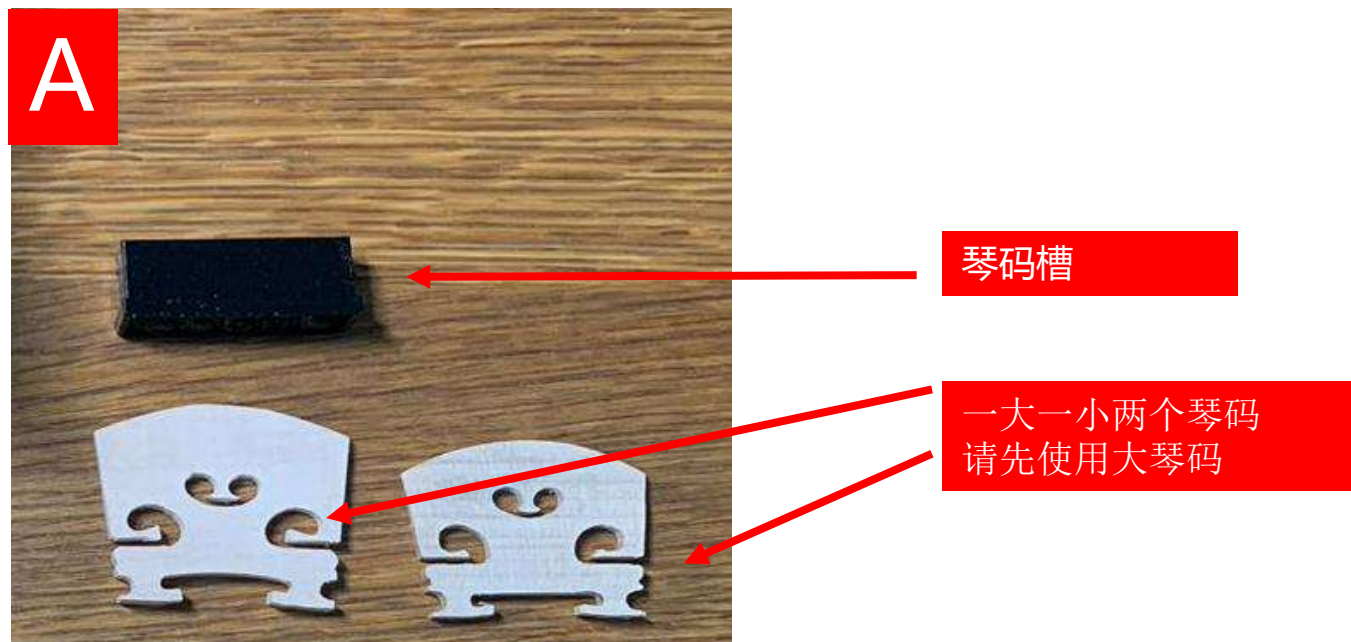


# Step 9 – 无声音盒子

安装琴码槽和琴码

## Note:

您的产品中包含的琴码相关部件可能是以下A 或者 B 其中之一  
如果您的产品包含声音盒子，请跳至61页

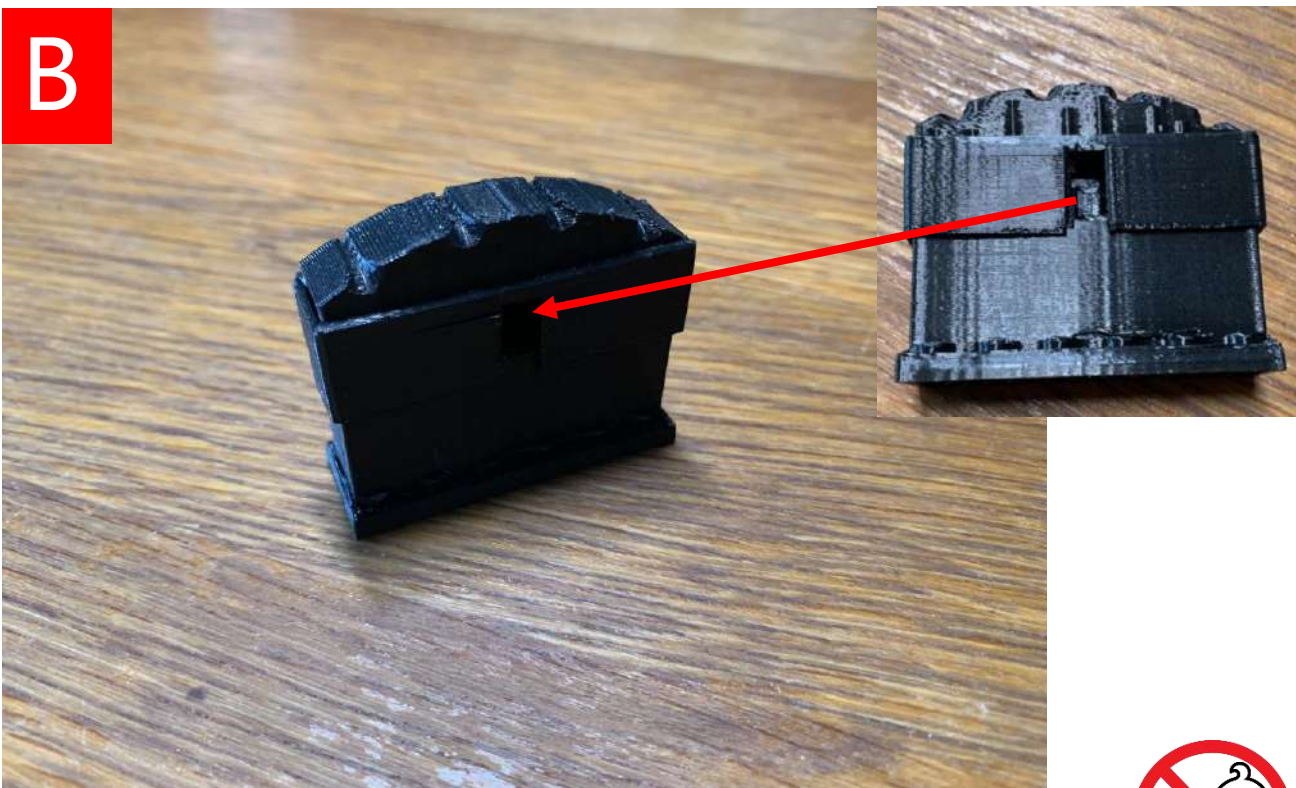




## Step 9 – 无声音盒子

安装琴码槽和琴码

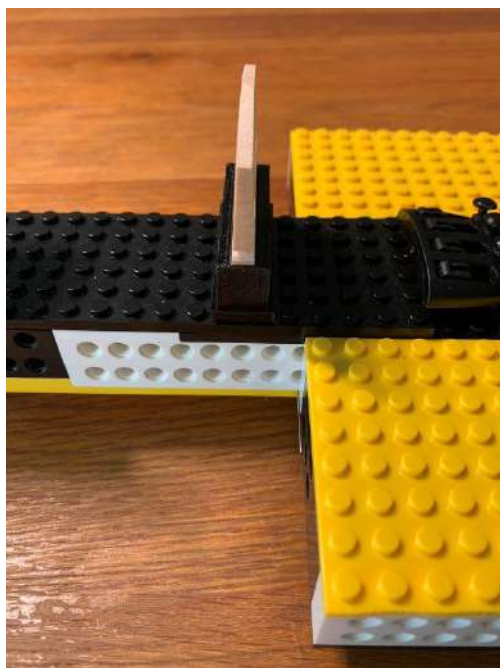
将琴码放在琴码槽中，然后把琴码槽放在脊柱上



# Step 9 – 无声音盒子

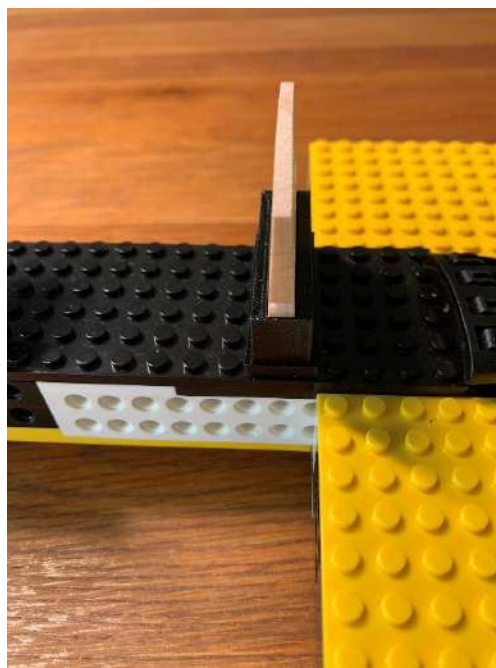
安装琴码槽和琴码

琴码位置在不同尺寸琴中不同



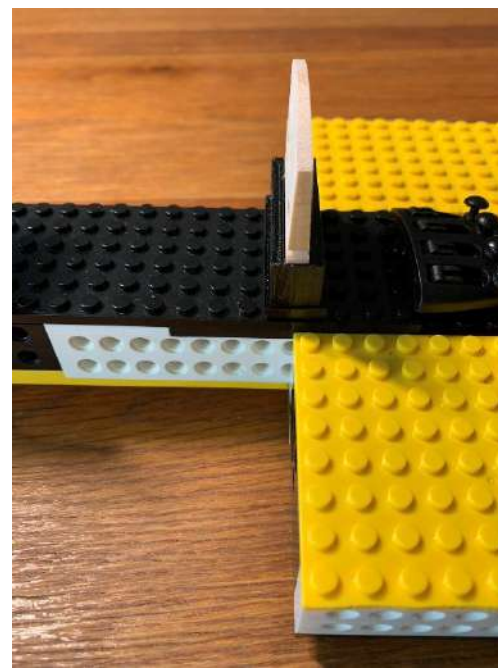
4/4 size

距离黄色  
边缘1个凸点



3/4 size

距离黄色  
边缘0个凸点



1/2 size

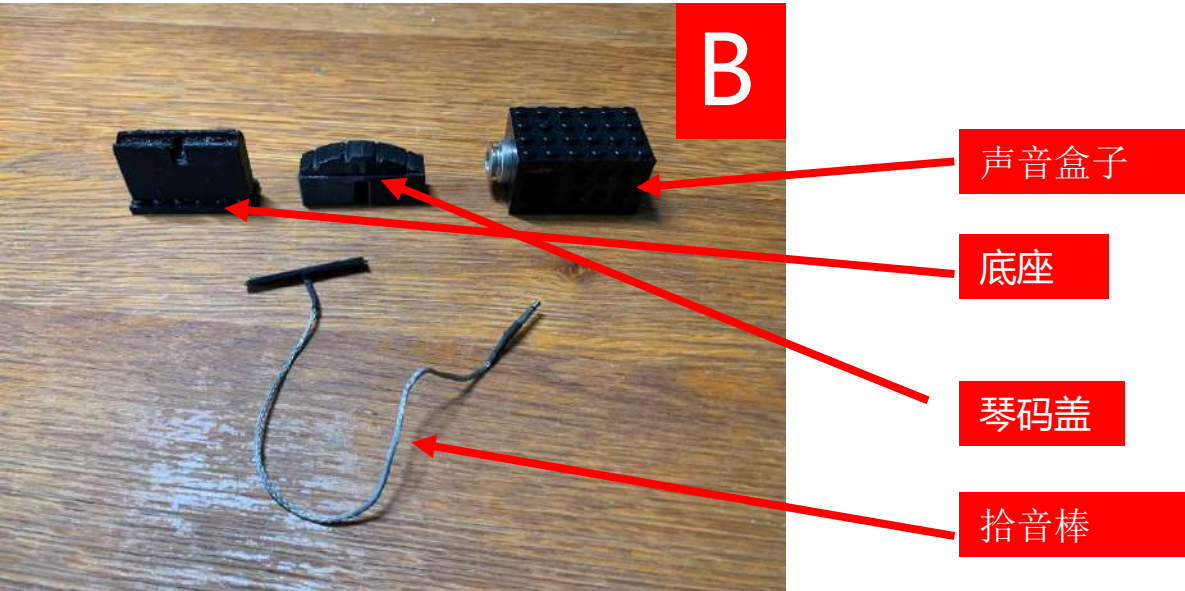
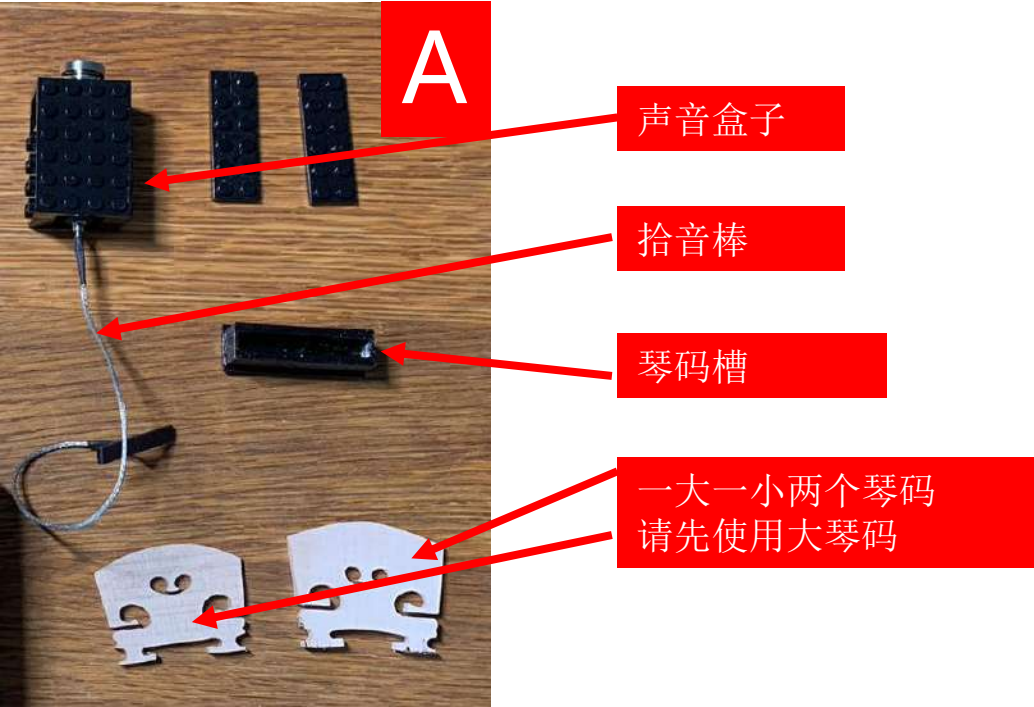
距离黄色  
边缘-1个凸点





# Step 9 – 有声音盒子

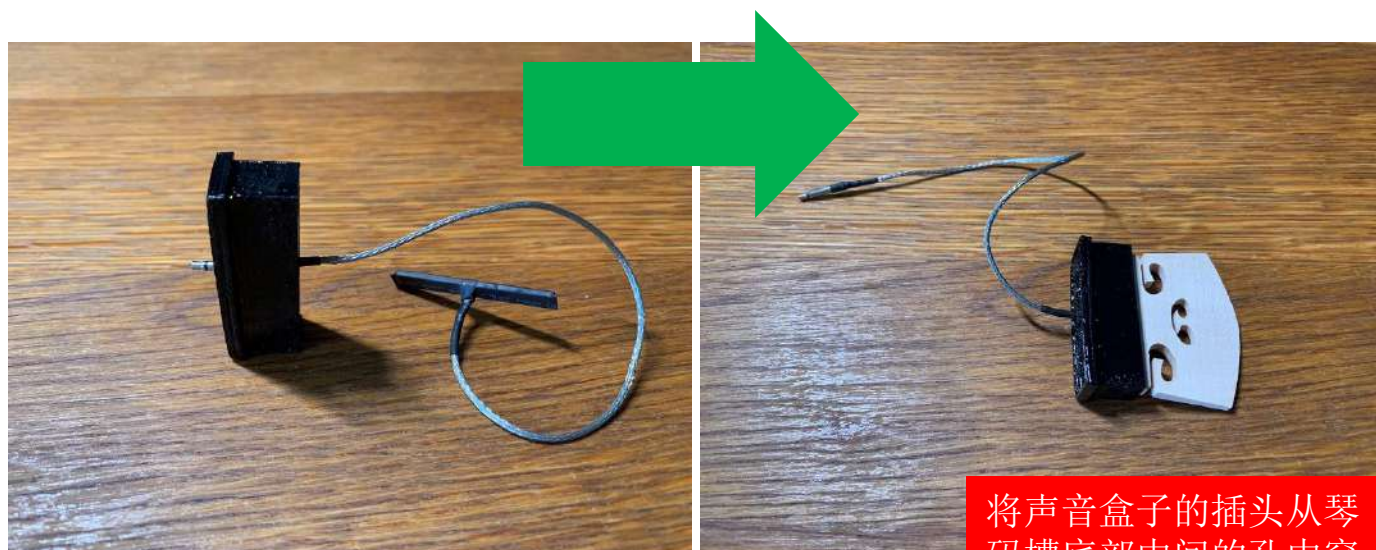
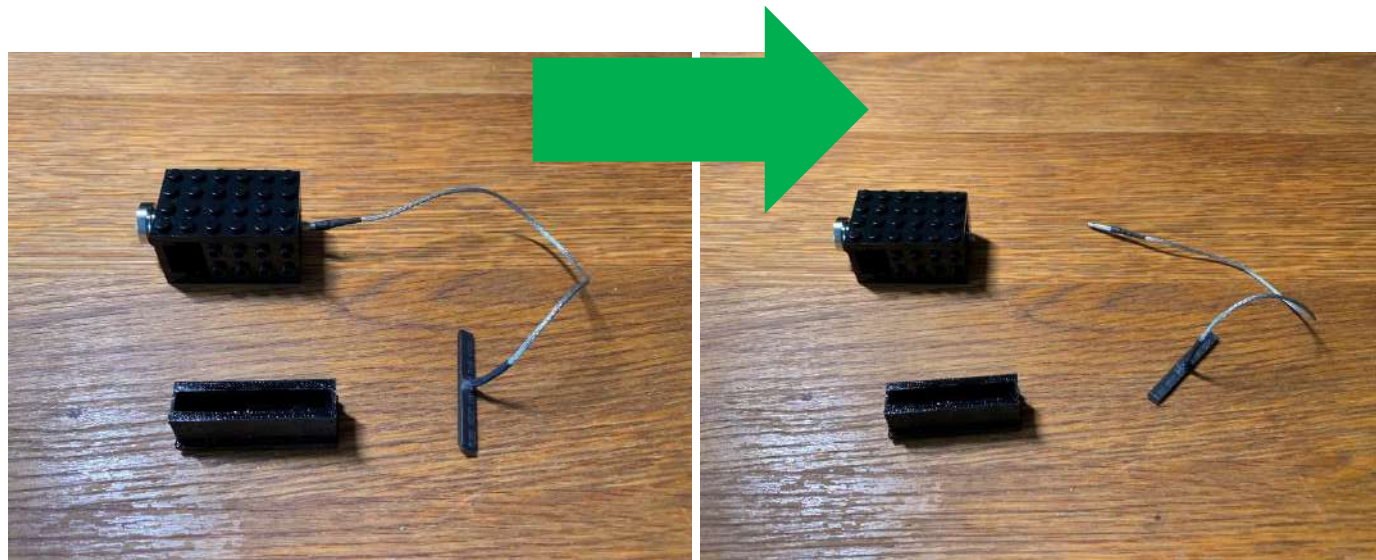
您的产品中包含的琴码相关部件可能是以下A 或者 B 其中之一



# Step 9

安装琴码槽和琴码

## Step 9a



将声音盒子的插头从琴码槽底部中间的孔中穿过，然后把琴码放进琴码槽

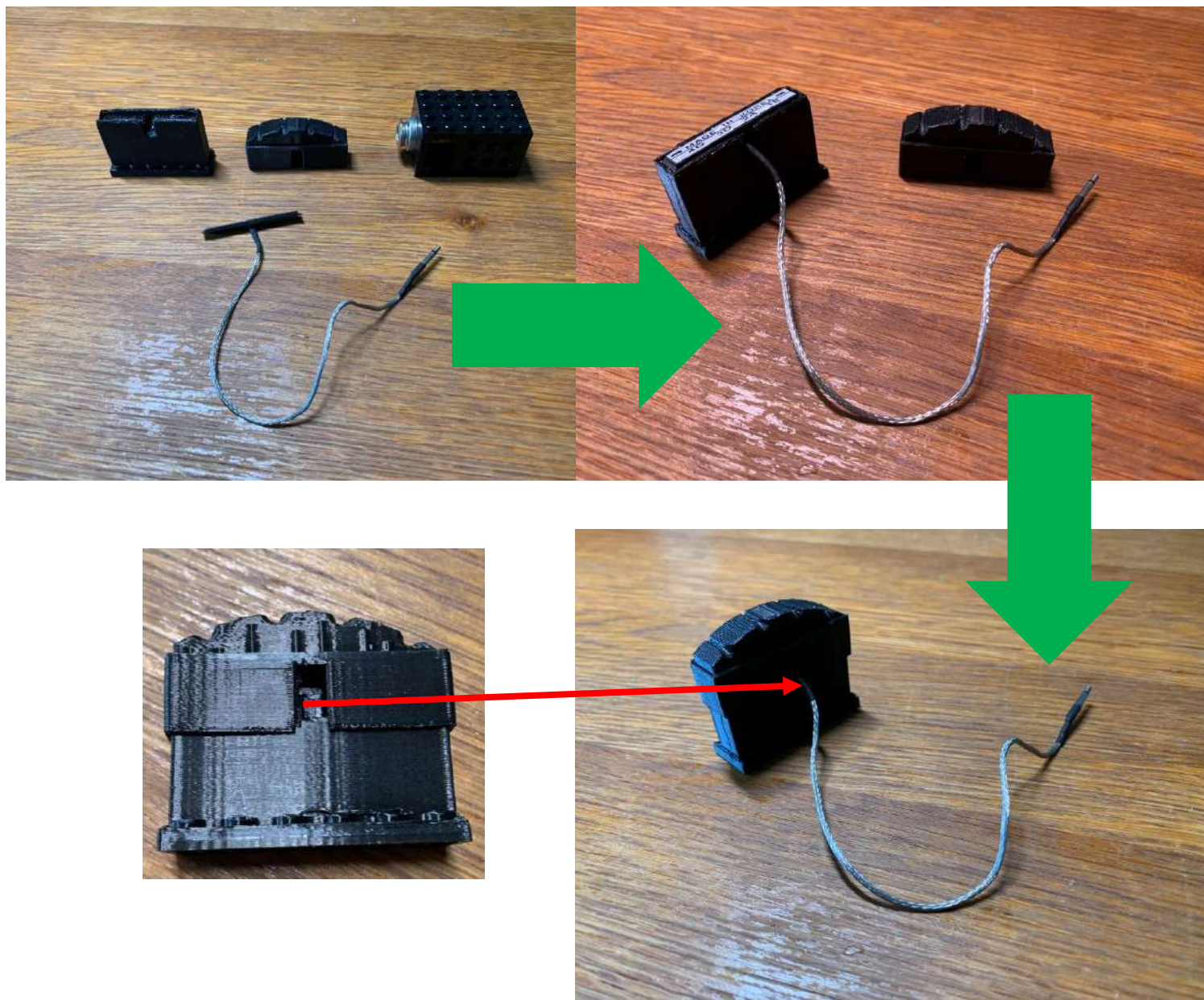




# Step 9

安装琴码槽和琴码

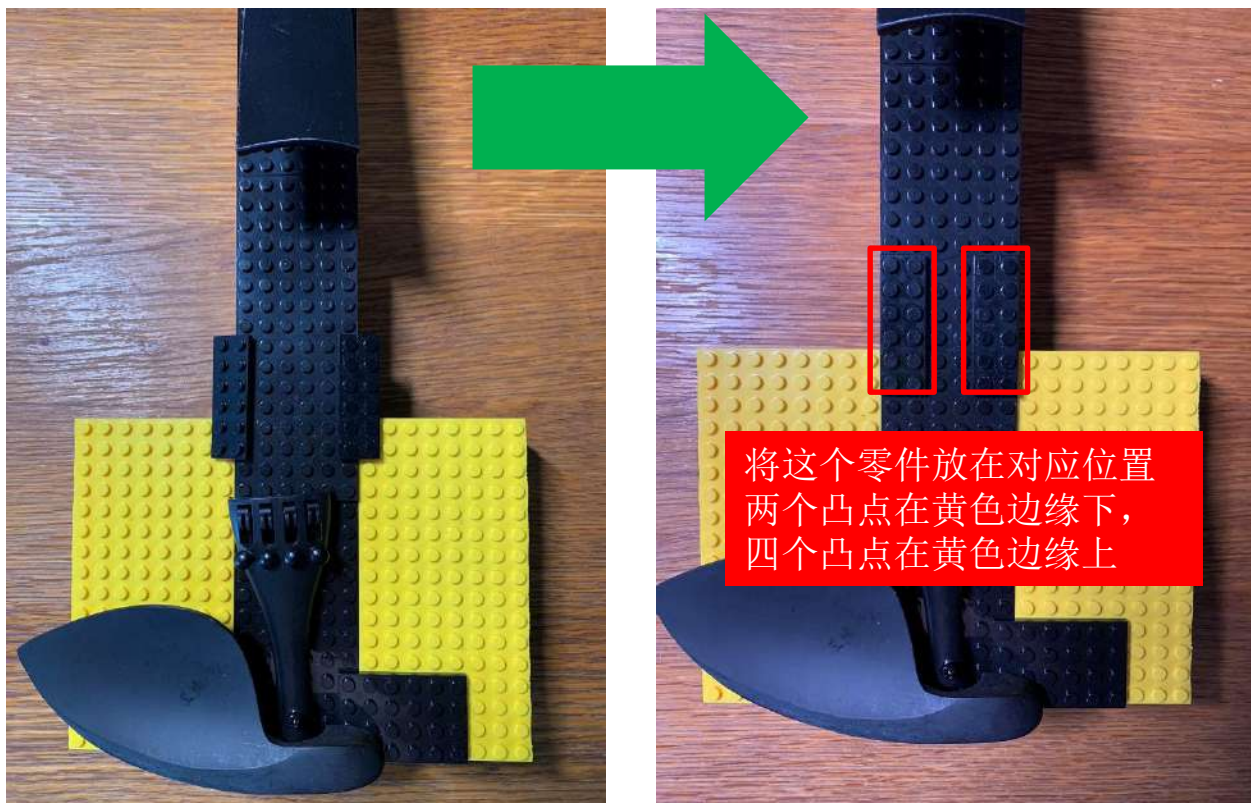
## Step 9b



# Step 9

安装琴码槽和琴码

## Step 9c





# Step 9

安装琴码槽和琴码

## Step 9e



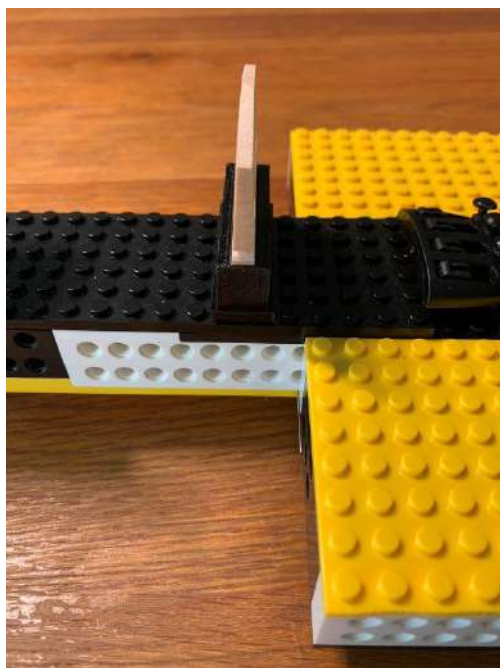
把琴码槽放在脊柱上



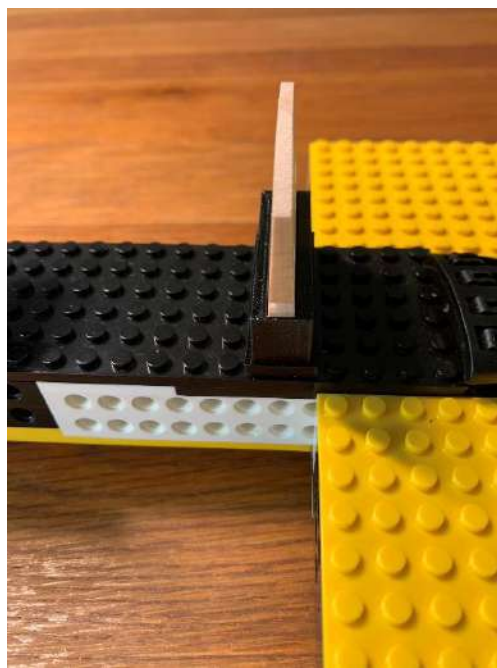
# Step 9 – 声音盒子

安装琴码槽和琴码

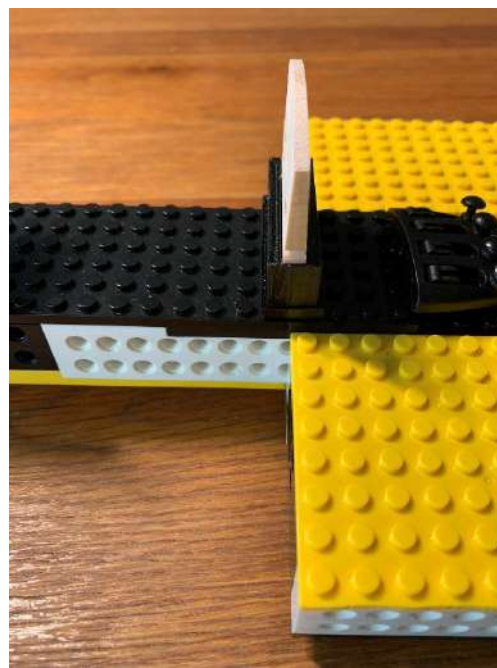
琴码位置在不同尺寸琴中不同



4/4 size  
距离黄色  
边缘1个凸点



3/4 size  
距离黄色  
边缘0个凸点



1/2 size  
距离黄色  
边缘-1个凸点





## Step 9

安装琴码槽和琴码

### Step 9f



将声音盒子固定在琴身表面某个位置，建议左上角

然后将插头插入声音盒子底部的孔



# Step 9

## 声音盒子常见问题

### Note



连接插头到声音盒子时，请勿将插头推到底。

需要留下一些间隙，也就是说，当插头连接到声音盒子时，仍然可以看到银色插头的末端。

最佳测试方法是将声音盒子连接到功放/扬声器，然后将插头位置前后移动，确定最佳位置。





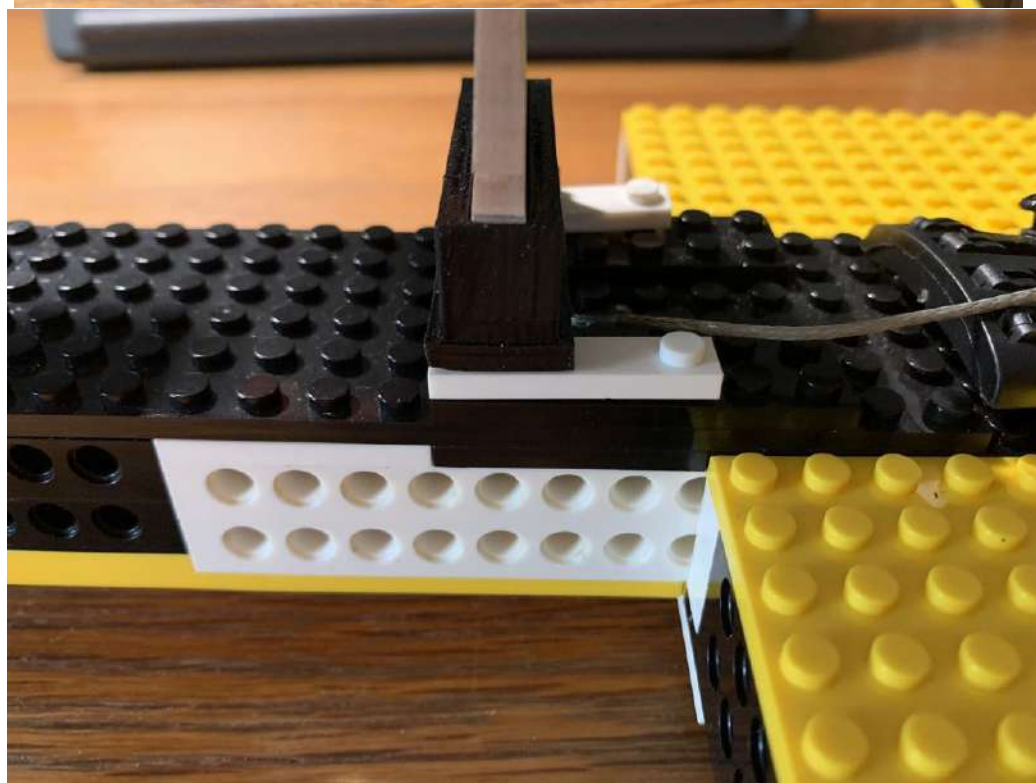
## Step 9

调整弦高

### Note



当琴弦安装并调音正确后，您可能会发现琴弦与指板的高度过低或过高。一般来说，3mm - 6mm是合适的范围，但这也可以根据个人喜好调整。琴弦高度与琴码高度有关。当您觉得琴弦太高时，可以使用较小的琴码。当您觉得琴弦太低时，可以通过在底座下垫砖块来增加高度，如左图所示。



# Step 10

安装琴弦和调音

## Note:

我们将通过以下视频引导如何安装琴弦和调音

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

