

# 75969 Hogwarts Astronomy Tower P169

- P169 is the unique code of lighting set, we use this to accurately identify the product you purchased and the corresponding manuals and services you need to obtain. Please make sure your product code is the same as the label on the back of the box shown “75969 P169”.
- Installation requires a lot of patience and great observation that your LEGO bricks will come alive when you get this finished. The bricks with lighting as below, so make sure you're ready and let's get started.



# Strategies for the Installation

This instruction divides three sections to complete the installation of the lighting set.

## **Section A:** Check the type and quantity of components.

The quantity and type of components of each products are different and it needs to be carefully checked to make sure there do have enough material. The type of components is indicated by the label on the bag.

## **Section B:** Test that each components is working properly.

Each components is made individually so it is necessary to test that each components is working properly to avoid the situation that the lighting does not work .

## **Section C:** laying out components following the instruction.

Our material is very small but not fragile, just be reminded that don't to pull the wires too hard. For different people, there may be some installation steps that you can't understand. Please look at the previous and later installation step

## **Section A: Check the type and quantity of components.**

**There are 11 bags in this set. The name and quantities of specific components are as shown , please check carefully.**

Label	Content	Quantity
Bit Lights-15CM-Warm White	Bit Lights-15CM-Warm White	3
Bit Lights-15CM-White	Bit Lights-15CM-White	1
Bit Lights-30CM-Warm White	Bit Lights-30CM-Warm White	2
Multi-Colour Lights 15CM	Multi-Colour Lights 15CM	1
Headlights-15CM-Warm White	Headlights-15CM-Warm White	4
LED Strip Lights-Warm White	LED Strip Lights-Warm White	3
Expansion Board	6 Socket Expansion Board	3
USB Power Cable	USB Power Cable-30CM	1
Connecting Cables-15CM	Connecting Cables-15CM	4
Connecting Cables-30CM	Connecting Cables-30CM	1
Parts package		

**Please contact us immediately if there have any missing components.**

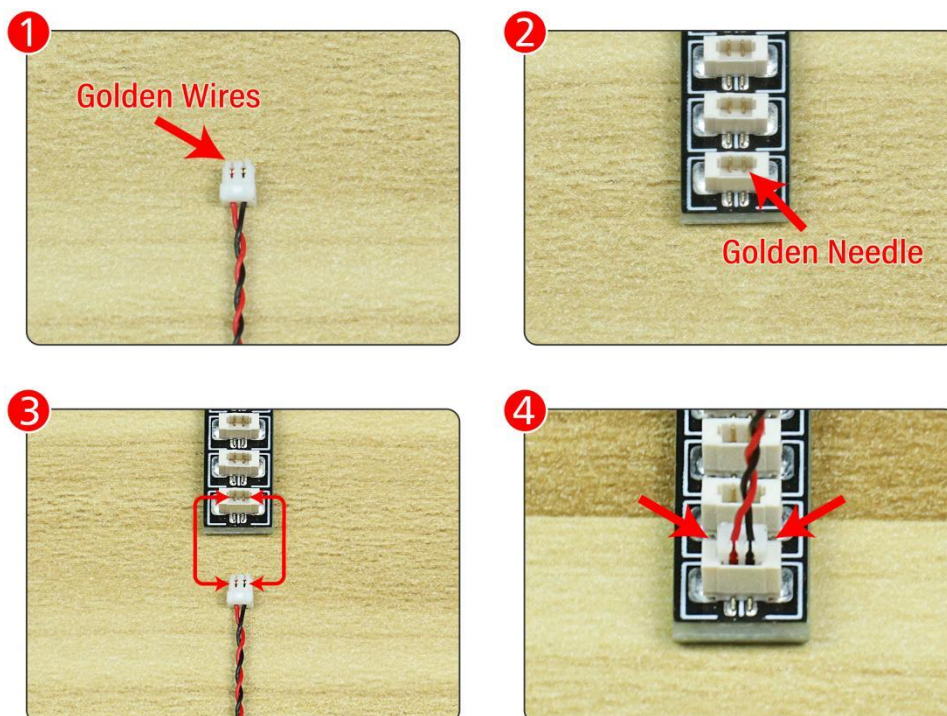
## Section B: Test that each components is working properly.

We need a structure to test all lights, so take out the bag with label “USB Power Cord”and “Expansion Boards”as follows.



It is worth reminding that our products are all customized. They have a unique way of connecting. The white plug on wire and the socket of the expansion board need to be connected together to transmit power.

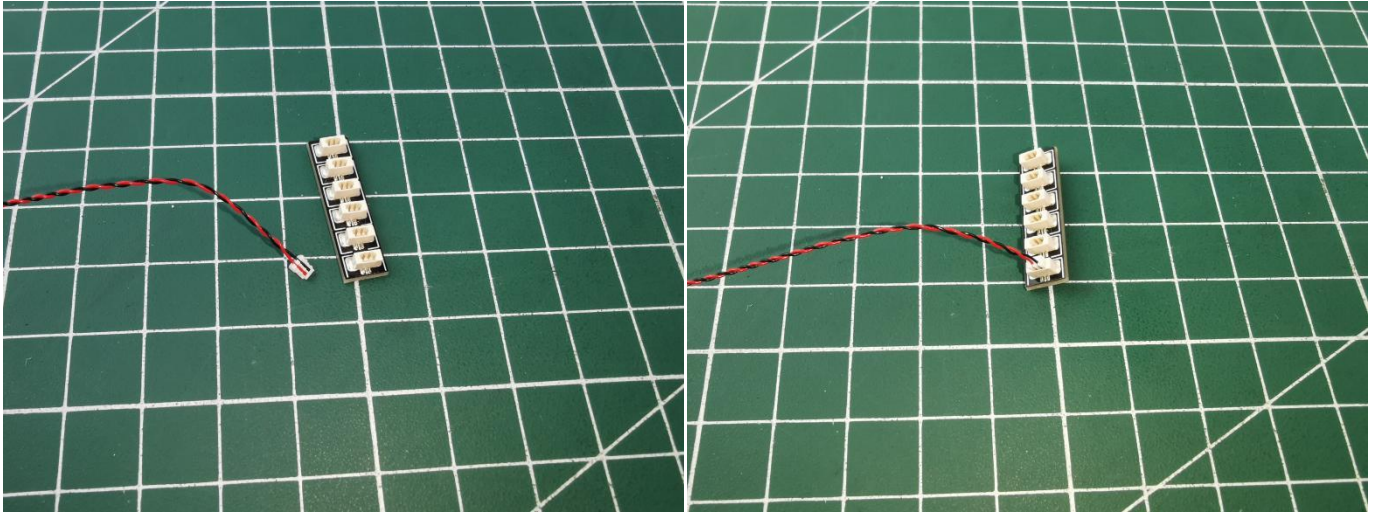
Note that on one side of the white plug you can see two very small golden wires that should be connected to the two golden needles in socket of the expansion board.shown as blow.





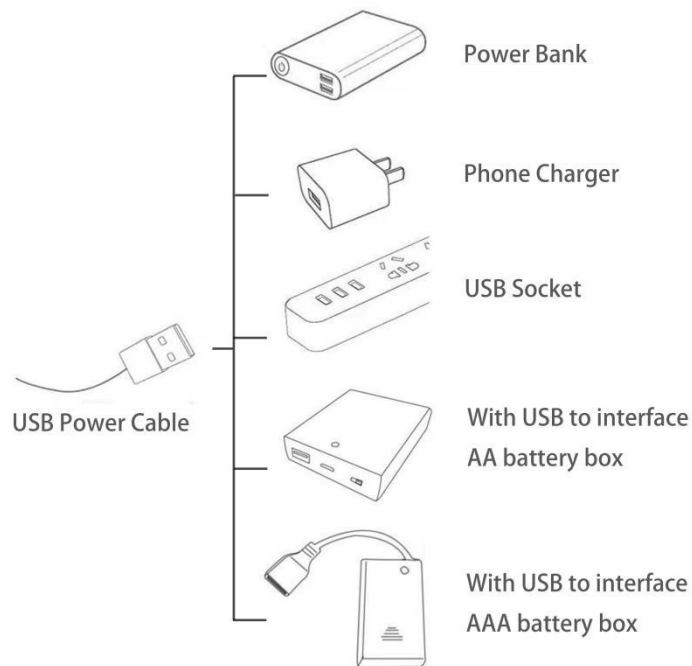
All our connections between plug and socket are all the same as shown above. So for any such structure with plug and socket, please pay attention to the golden wire of the plug and the golden needle of the socket, they must be touched together.

The connection method between the USB Power Cord and Expansion Boards is as follows:



The USB Power Cord can be powered by phone chargers, power banks, etc.

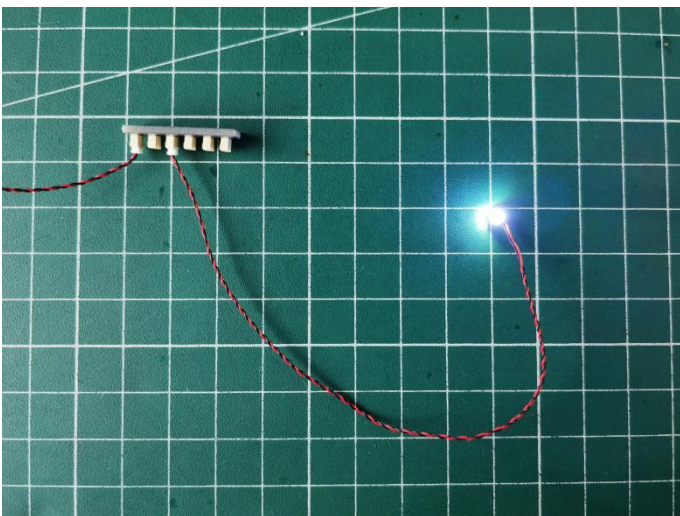
USB connectors to connect devices



**This instruction will use the power bank as power supply . The test structure is shown as follow. All lamp in this set will be tested by this structure.**



**when we test "Bit Lights-15CM-White" particles,Take out the bag labelled "Bit Lights-15CM-White".Take out one of the light and connect it to the socket. Turn on the power bank, the light will turn on normally as shown below.**



**Test each lamp according to this method. It should be noted that after the test, the lamp must be returned to the corresponding bag to avoid confusion of types.**



**The components needs to be tested in this set is 3\*Bit Lights-15CM-Warm White,2\*Bit Lights-30CM-Warm White,1\*Multi-Colour Lights 15CM,4\*Headlights-15CM-Warm White,3\*LED Strip Lights-Warm White.**

**Please contact us immediately if any components don't work.**



**Section C:** laying out components following the instruction.

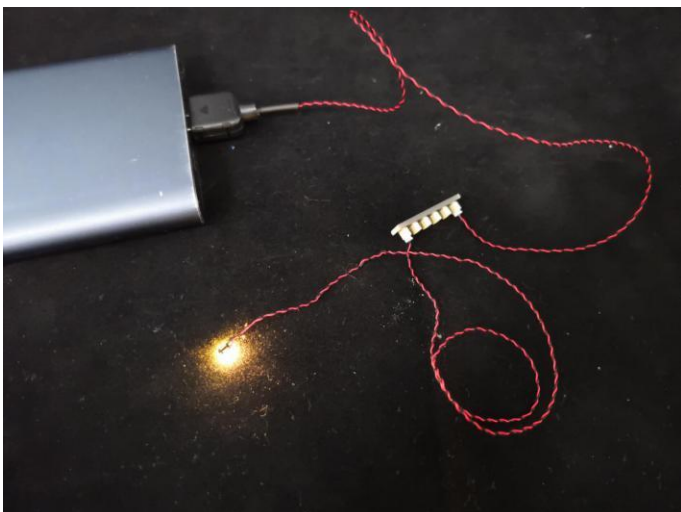
**1.** Take a warm white 30cm dot light.



**2.** Take a 6-port expansion board, a USB cable, assemble them as per below. Connect the USB cable to the power bank to test the light.



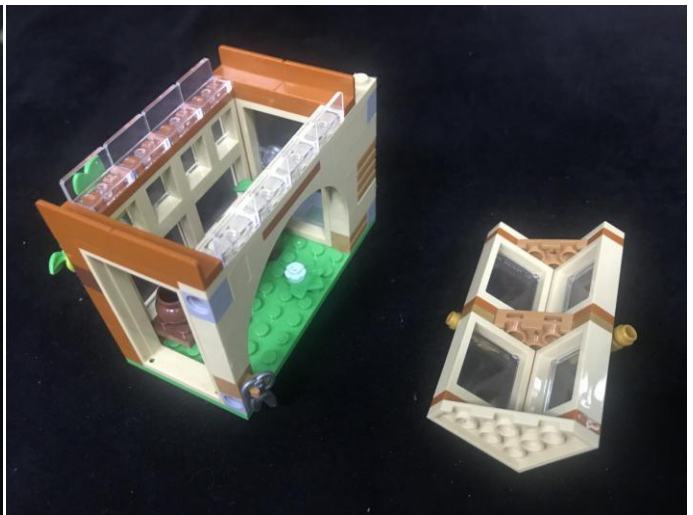
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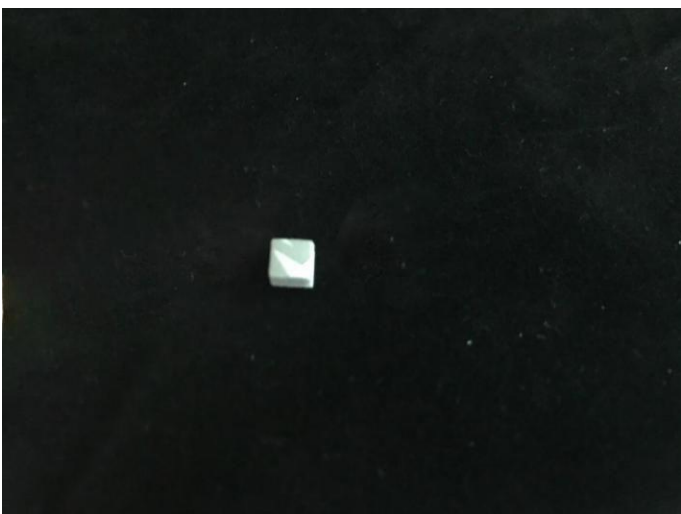
**4.**Take the building, disconnect the following house.



**5**

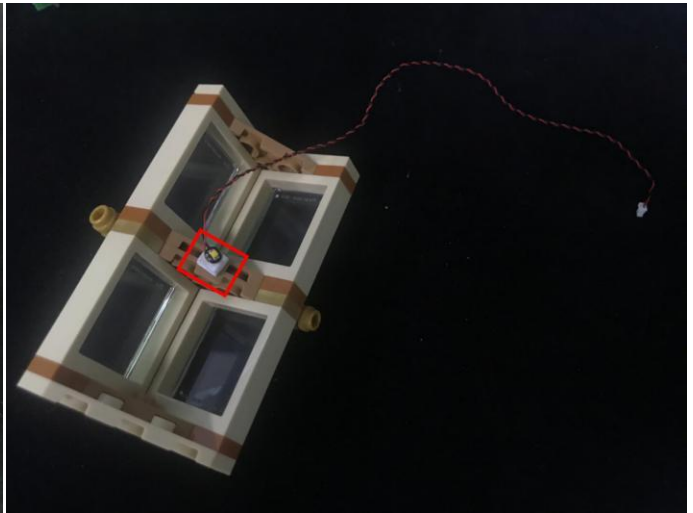
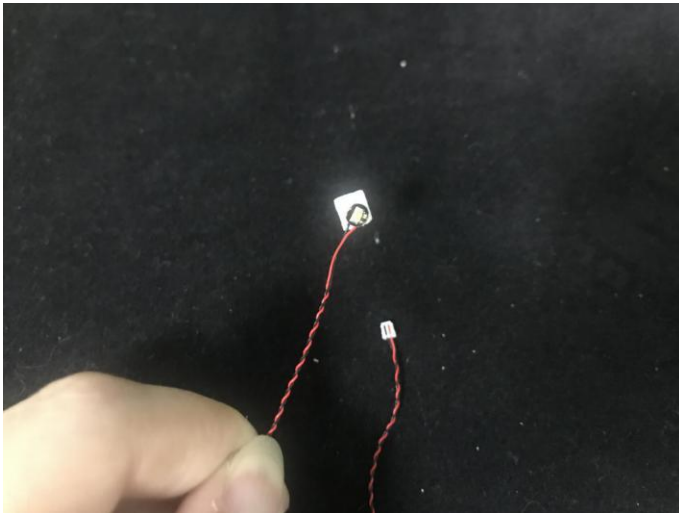


**6.**Take 2 adhesive squares.

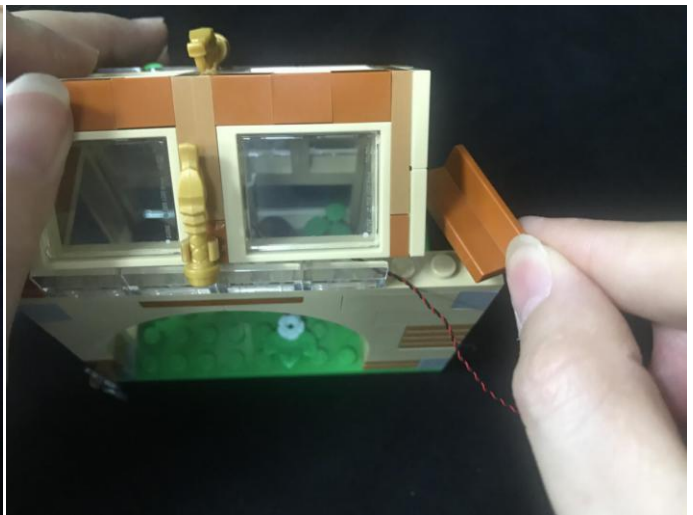
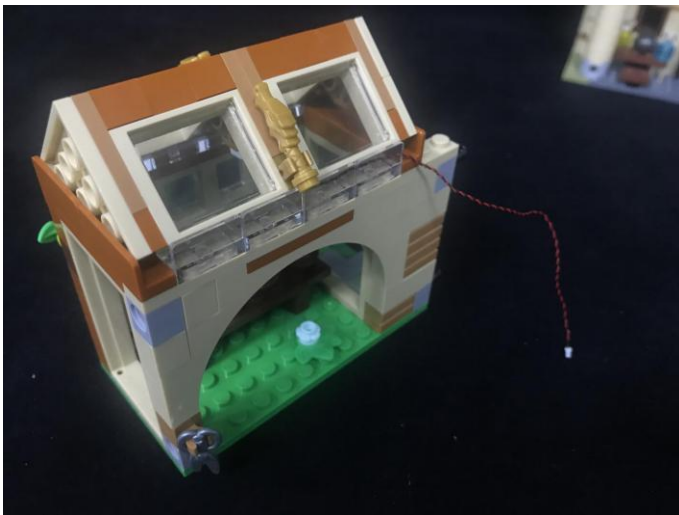




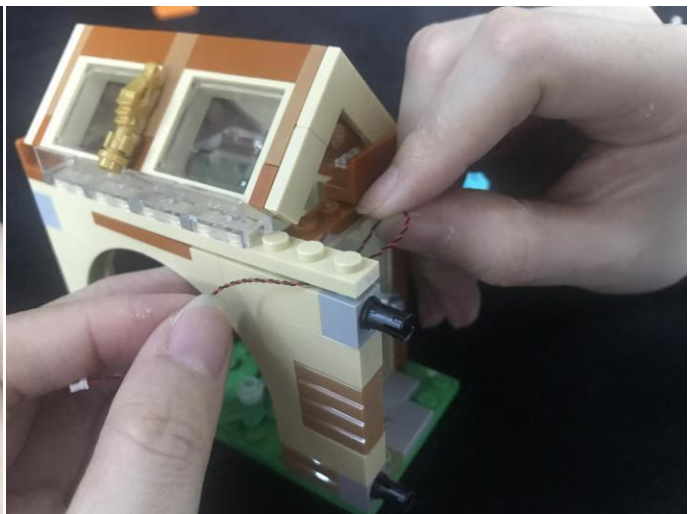
**7. Take the roof, stick the light to the following place.**



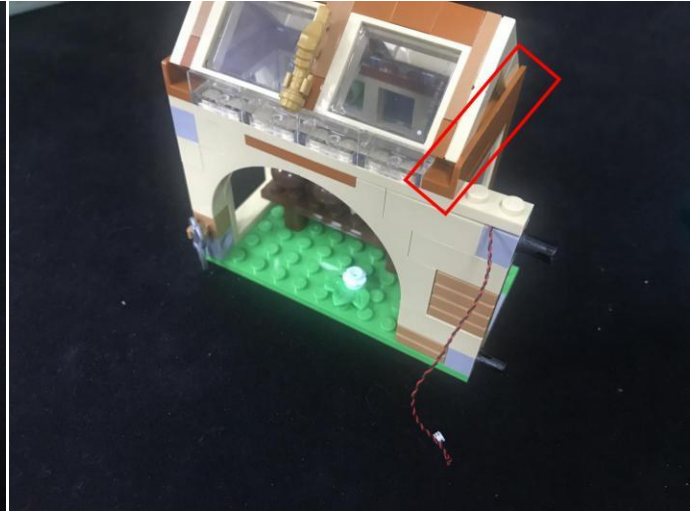
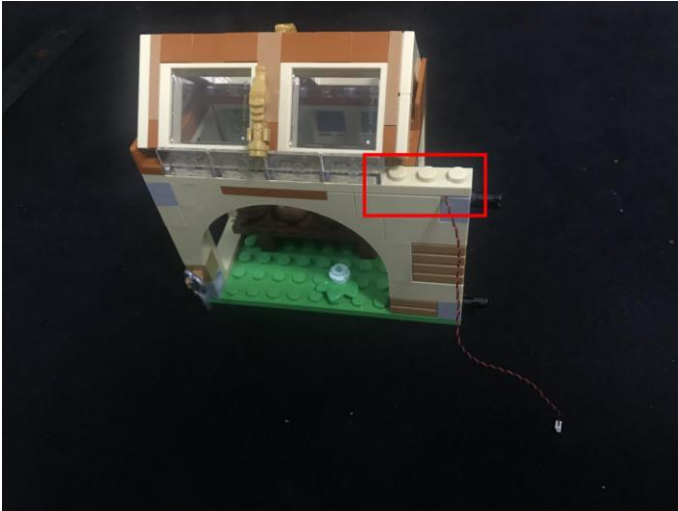
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**9**



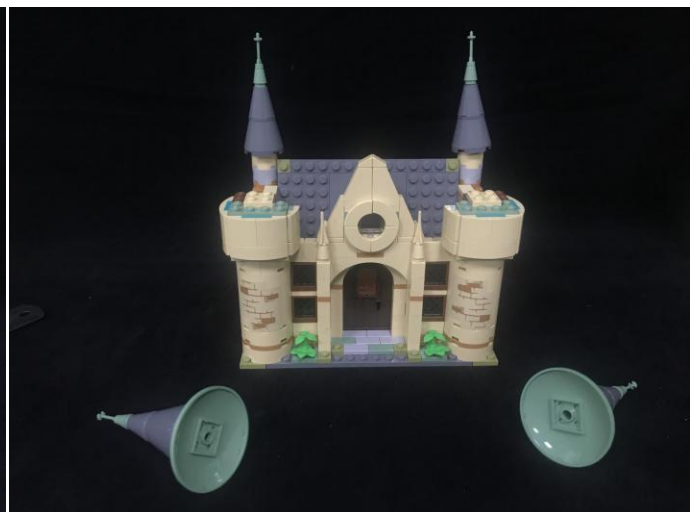
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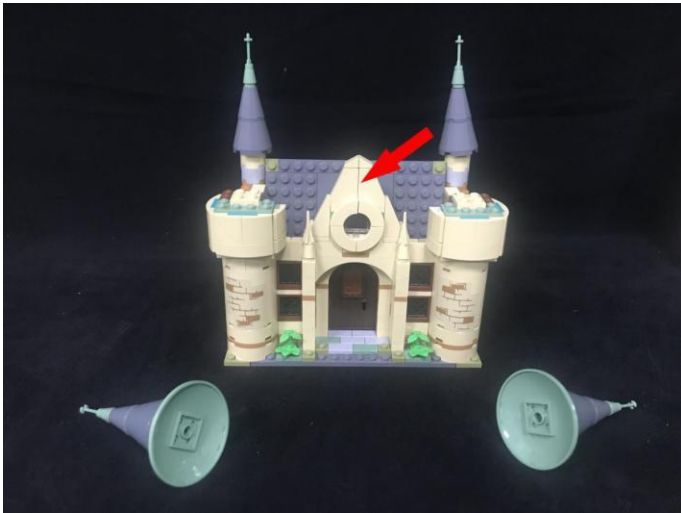
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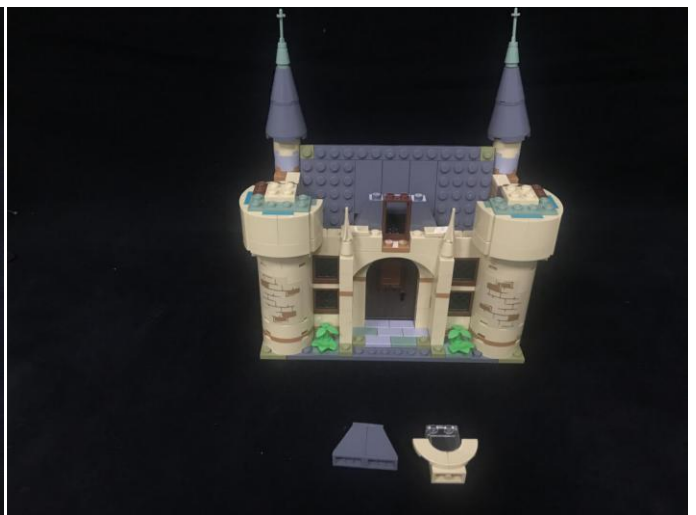
12. Take the following building, turn to the front, remove the two top pieces as per below.



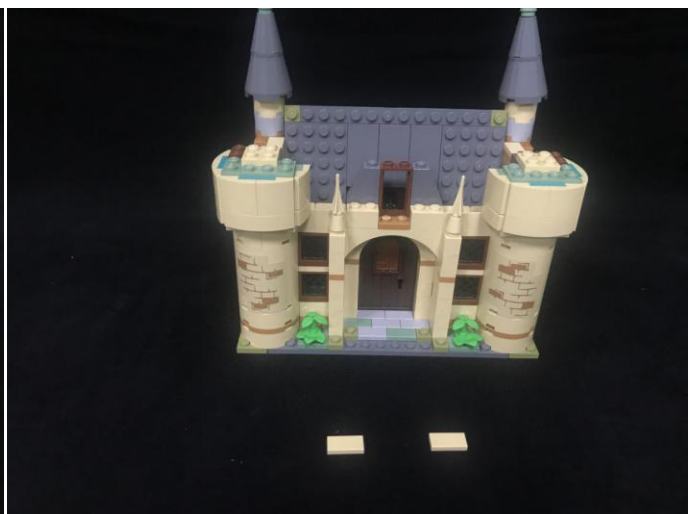
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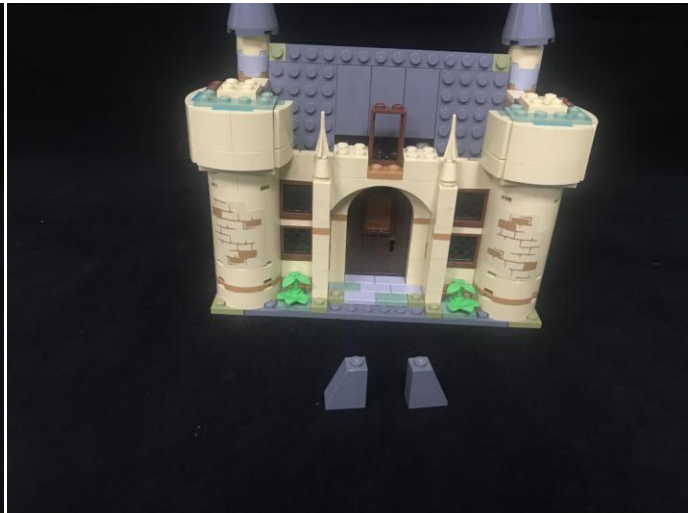
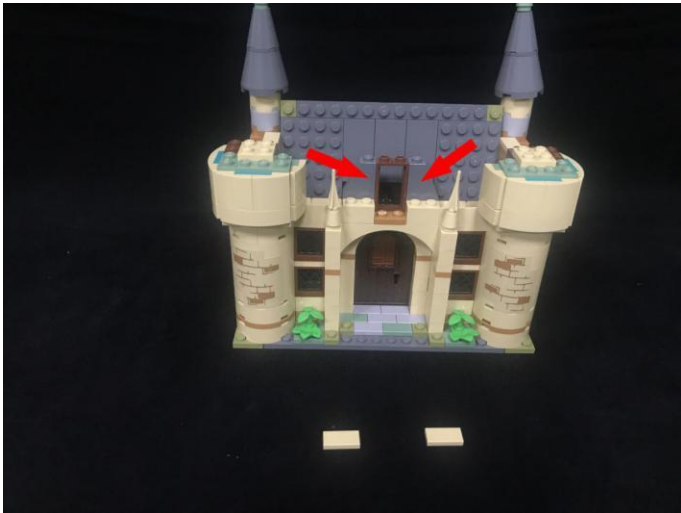


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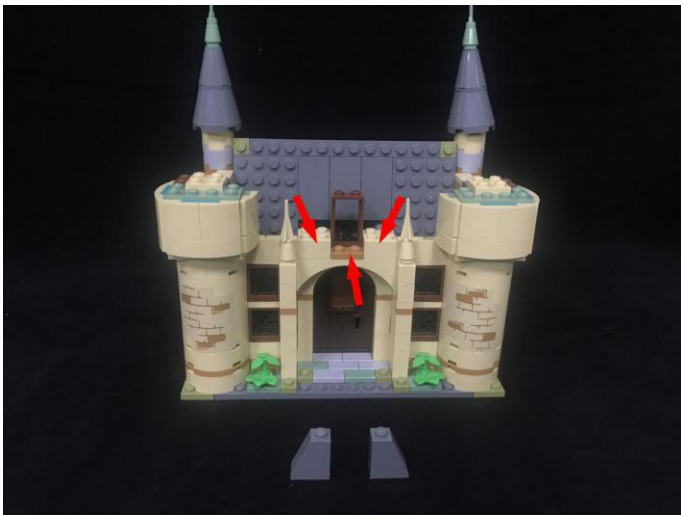




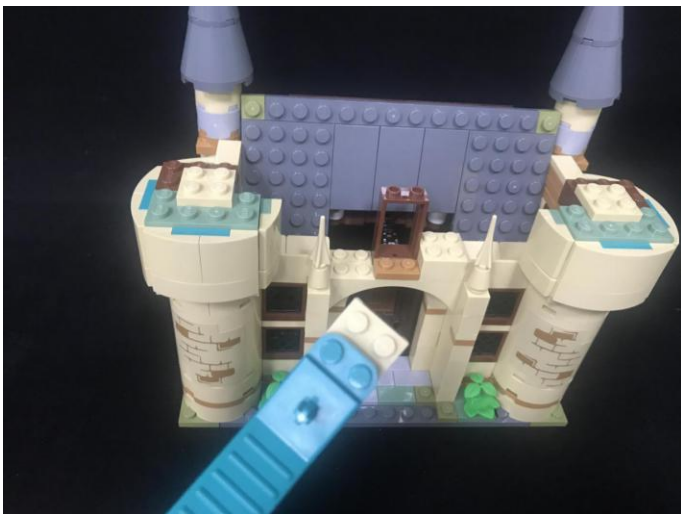
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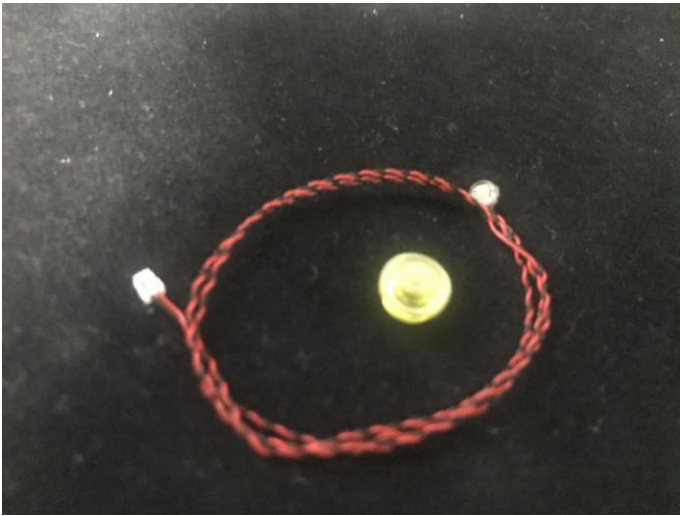
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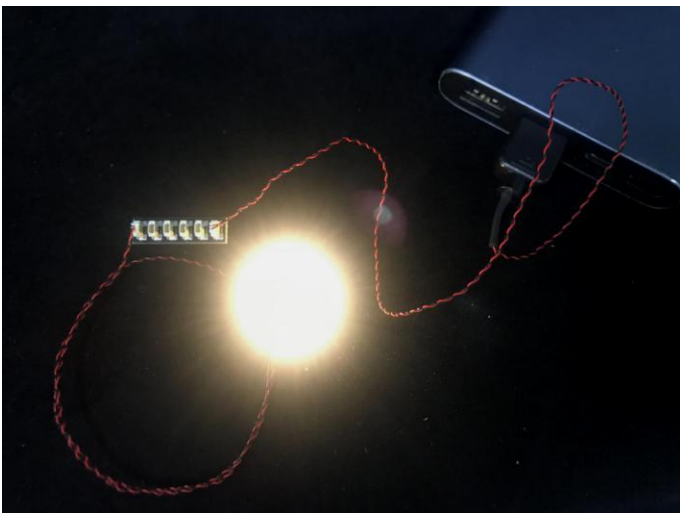




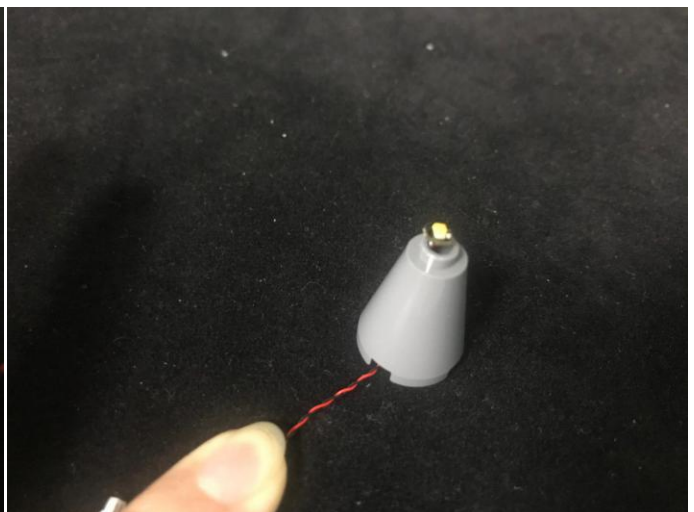
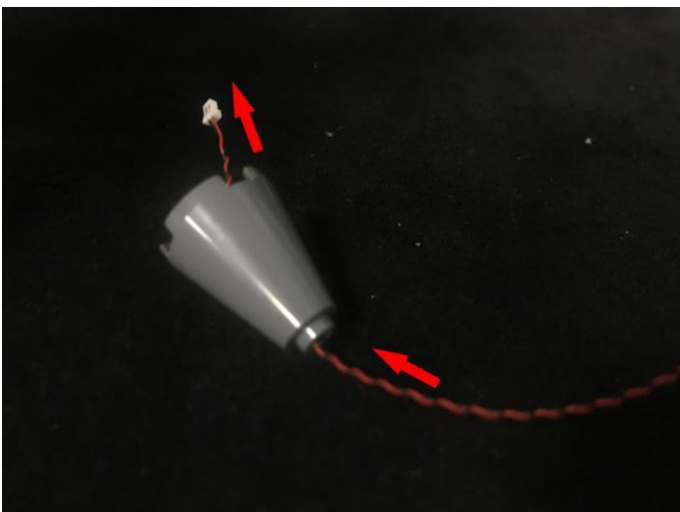
**22.** Take a warm white 30cm dot light, a trans yellow 1x1 round piece.



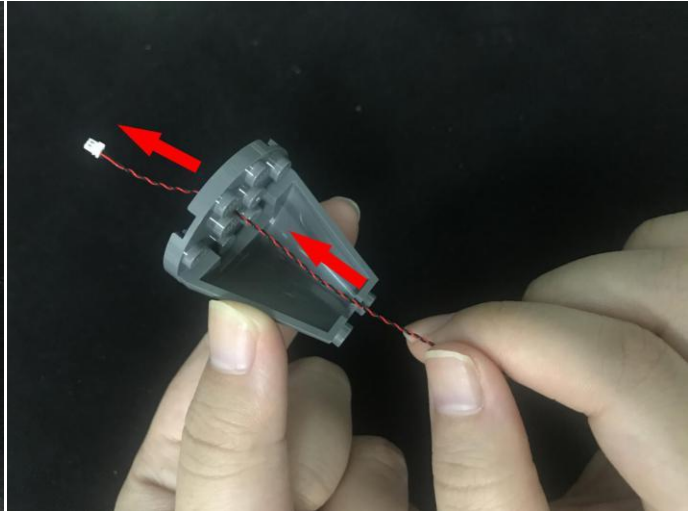
**23.** Connect the cable of the light to the expansion board, turn the power on to test the light.



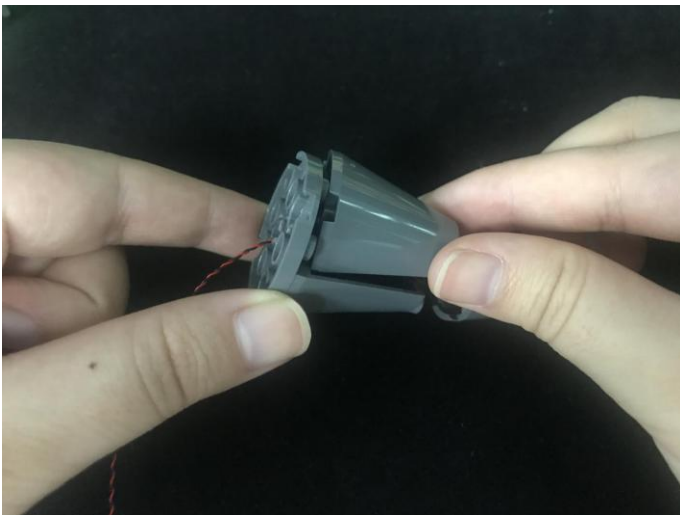
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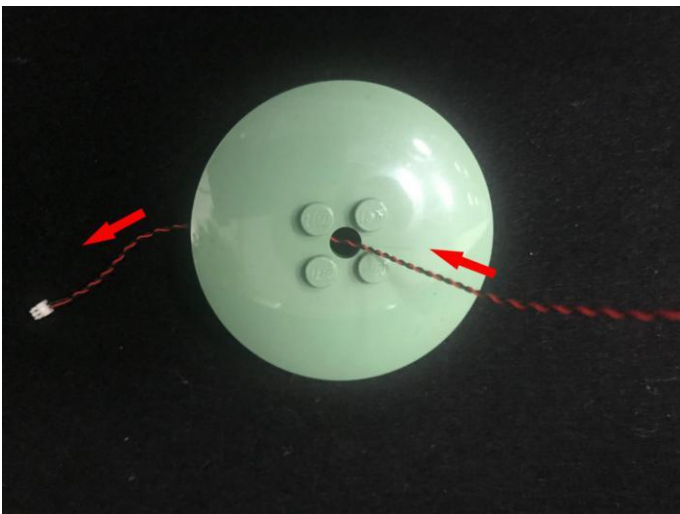
**25.**Secure the light with the 1x1 trans yellow piece.



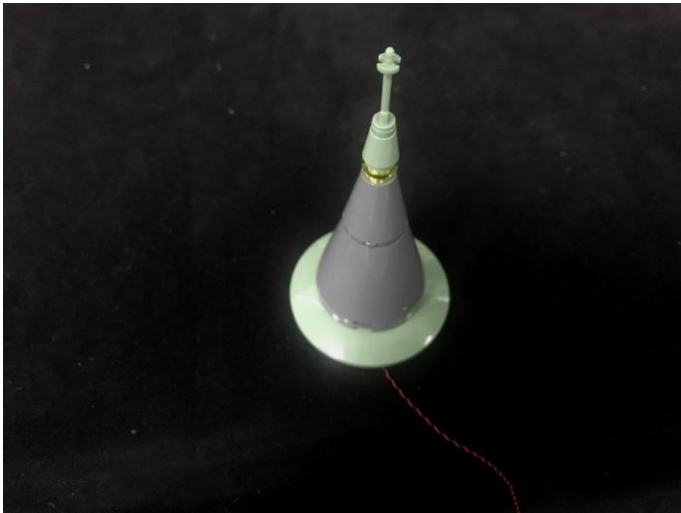
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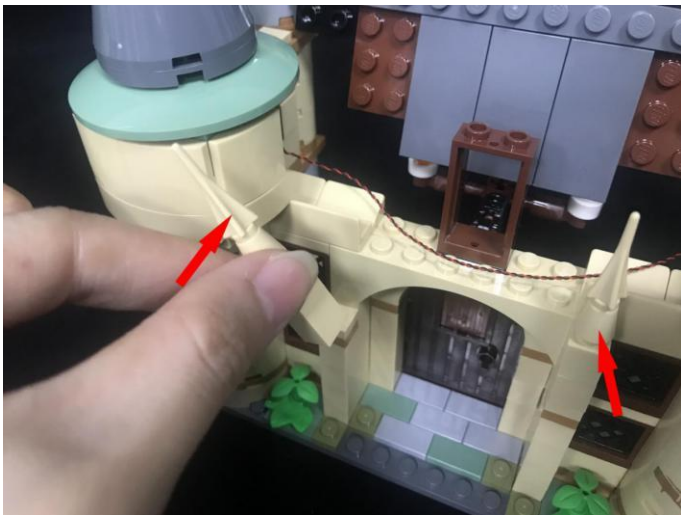
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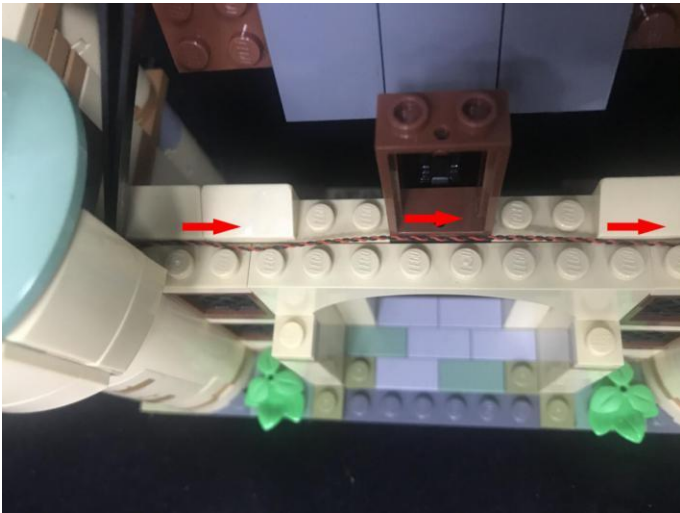


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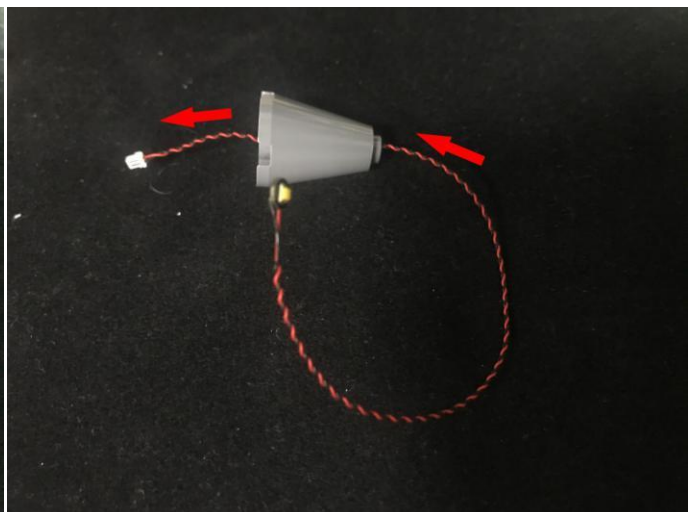
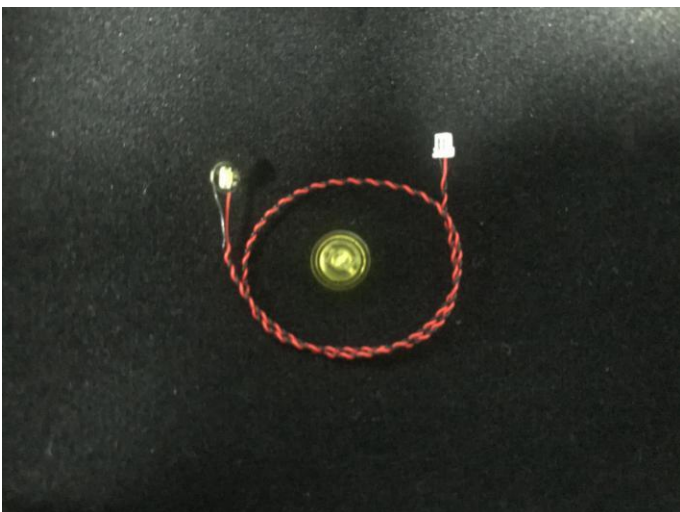
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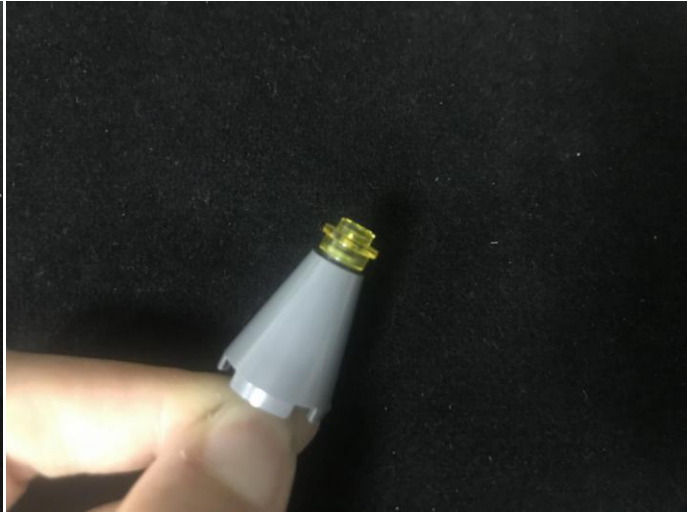
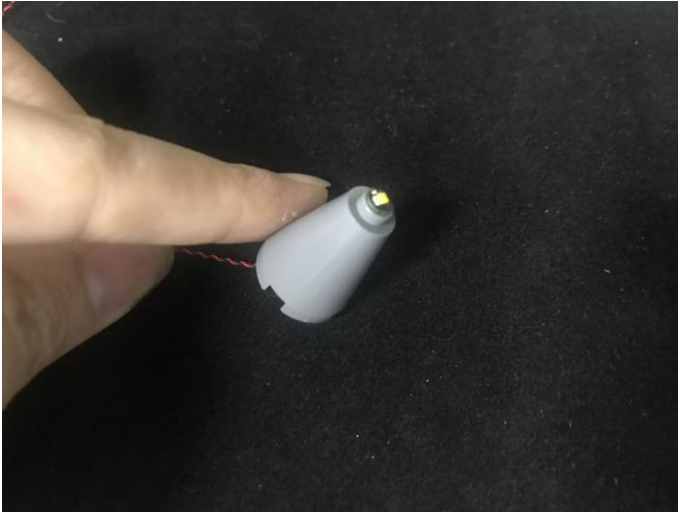
**32.** Take another top piece and disassemble it as per below.



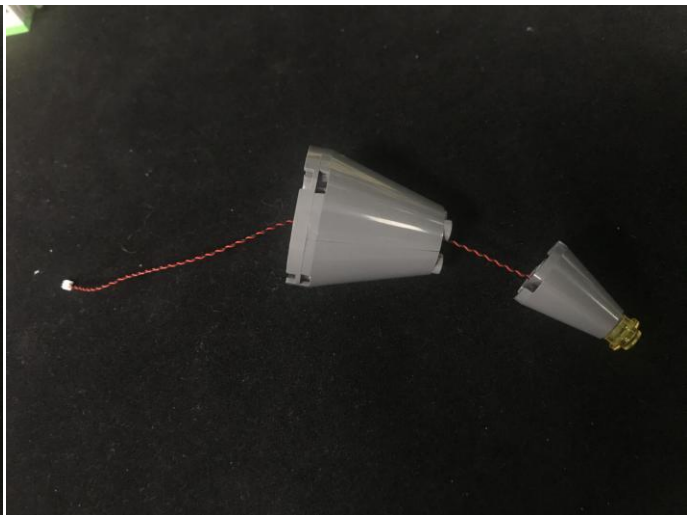
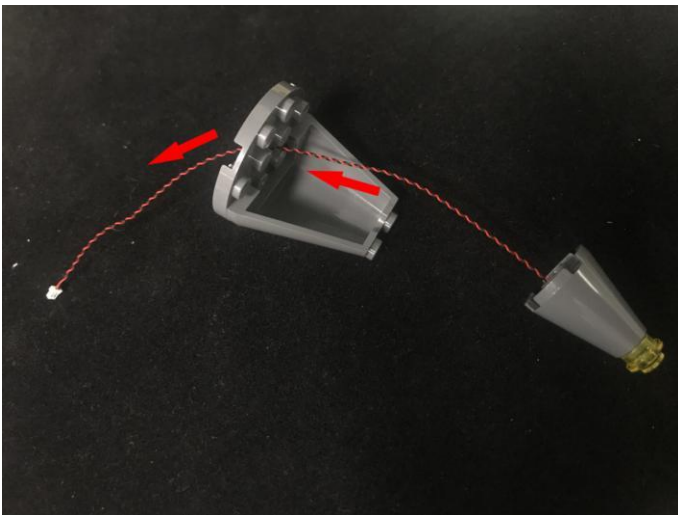
**33.** Take a warm white 15cm dot light, a trans yellow 1x1 round piece.



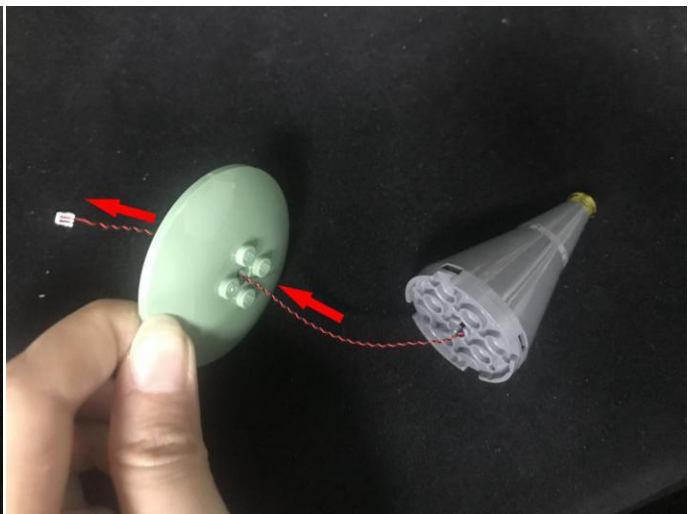
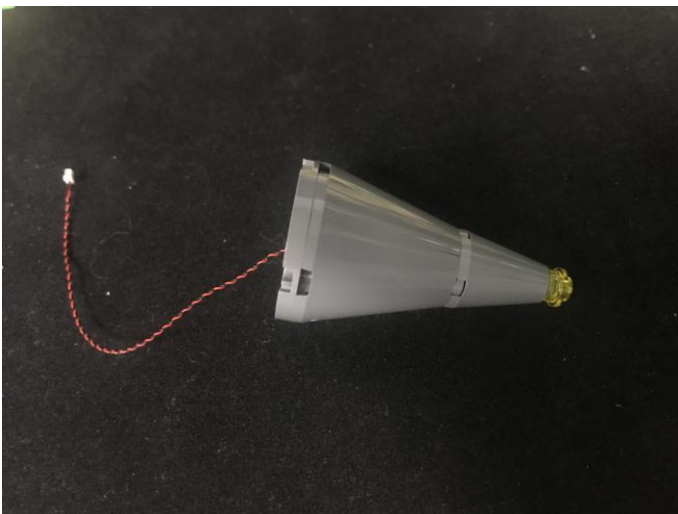
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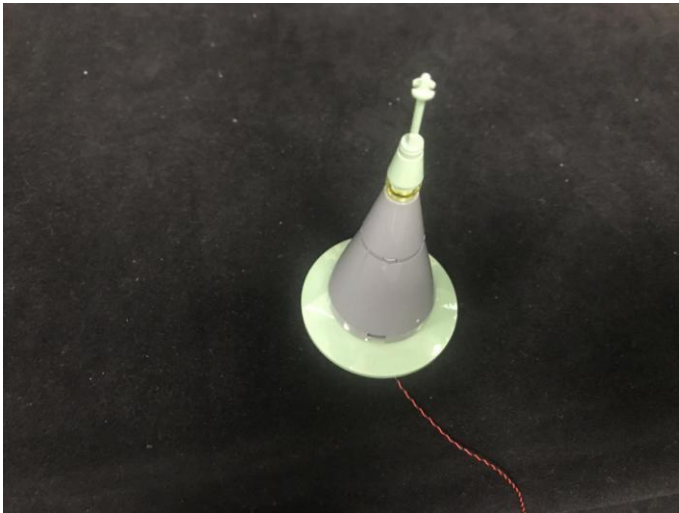


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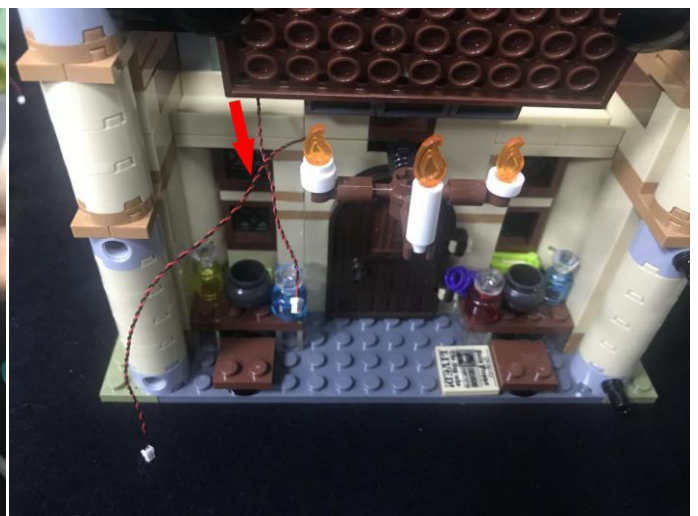
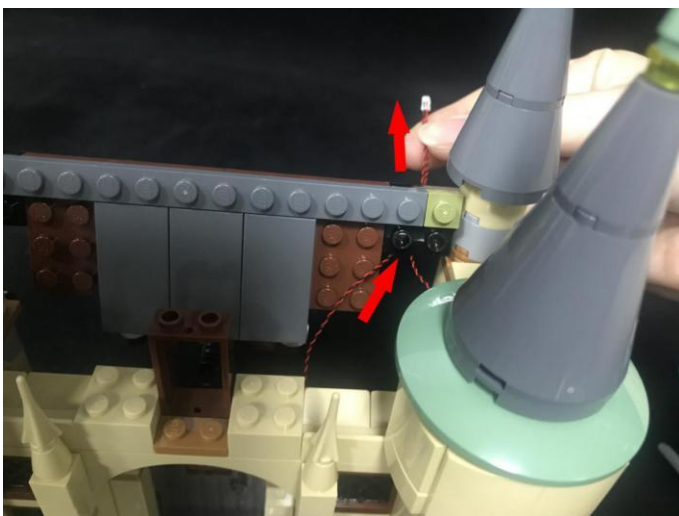
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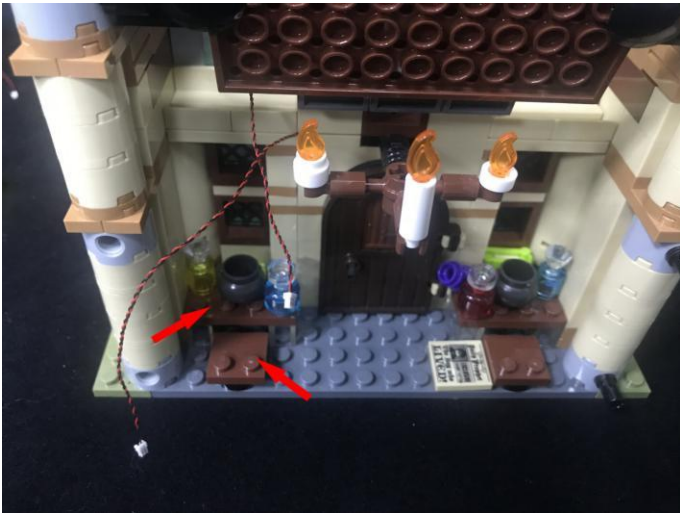
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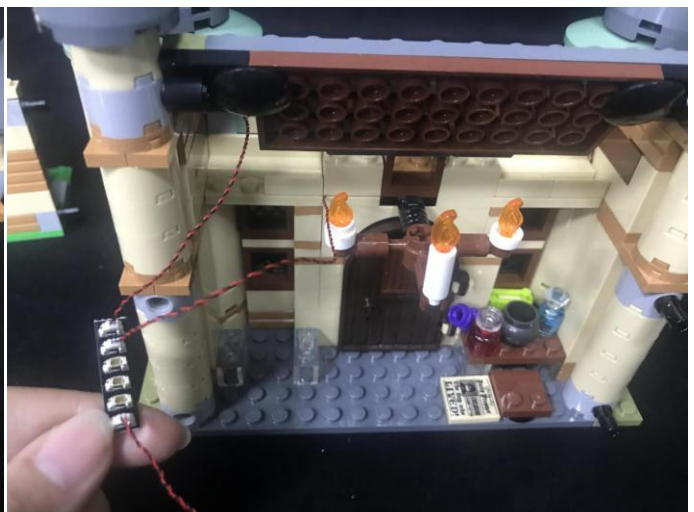
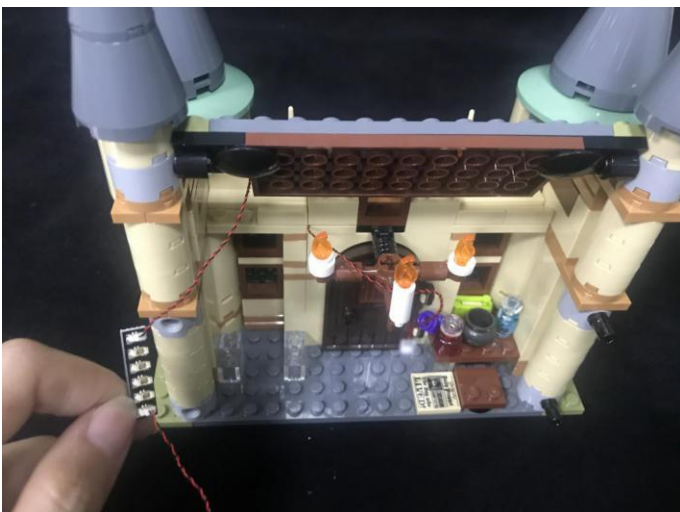
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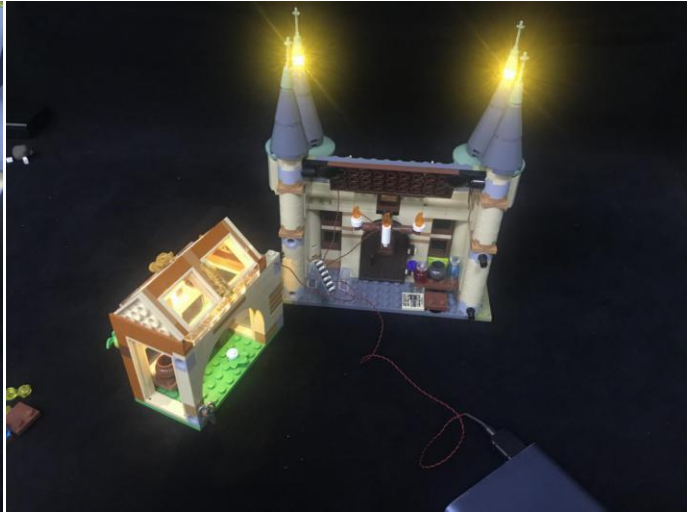


42. Take the 6-port expansion board, connect the 15cm light cable to it.  
it.





43



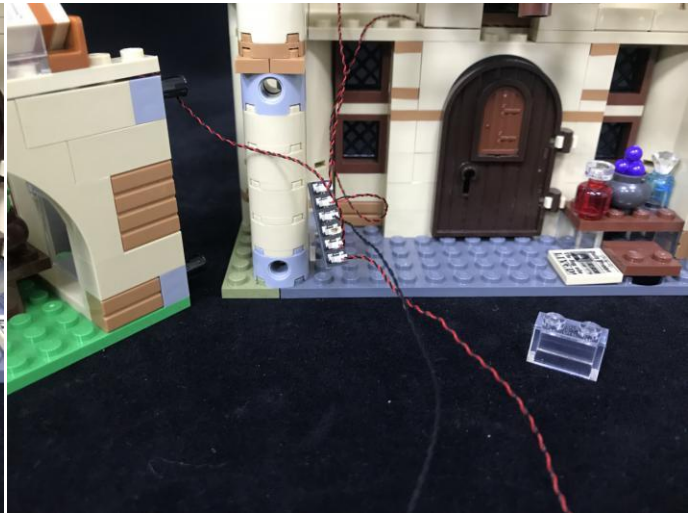
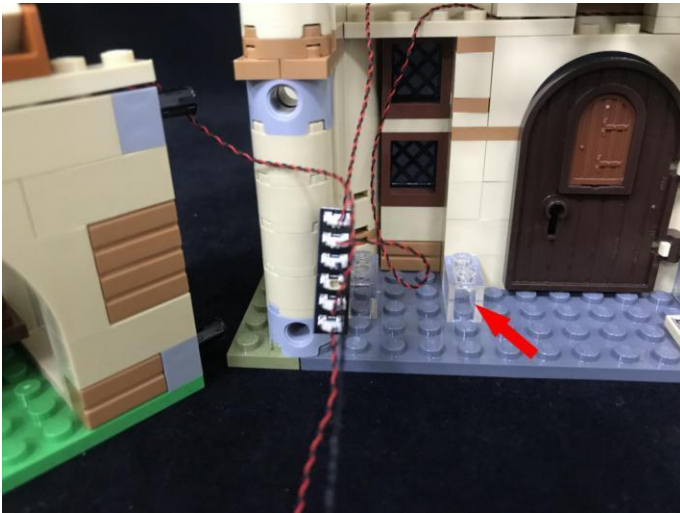
**44.** After the verification, turn the power off. Take a 15cm connecting cable.



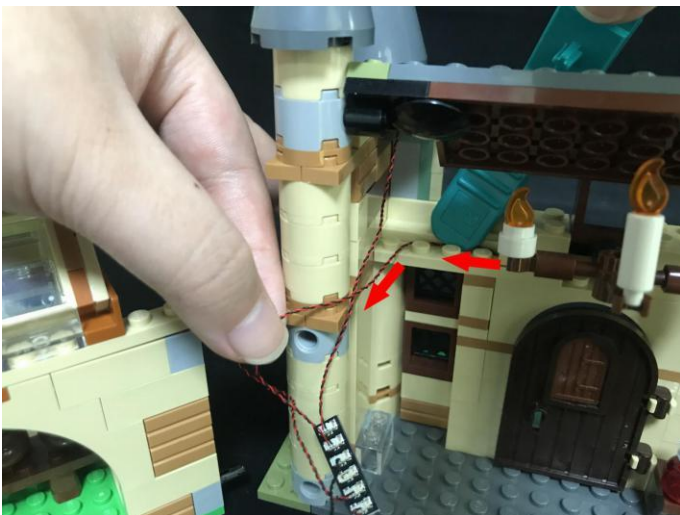
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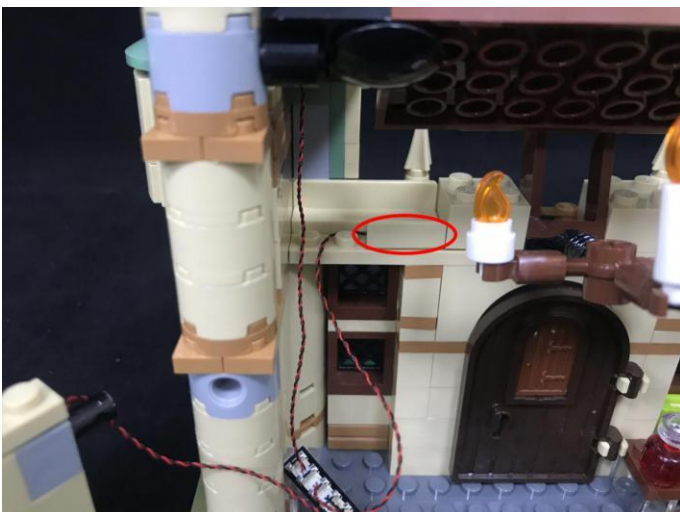
46



47. Thread the following 30cm light cable through the space, you can use the tool to help.

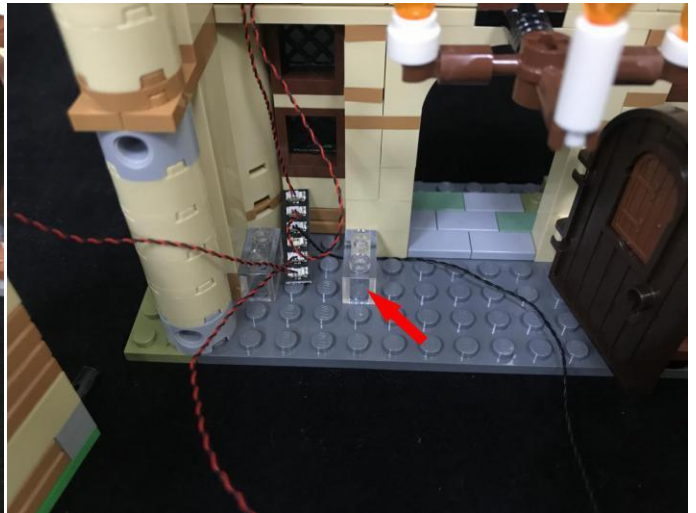
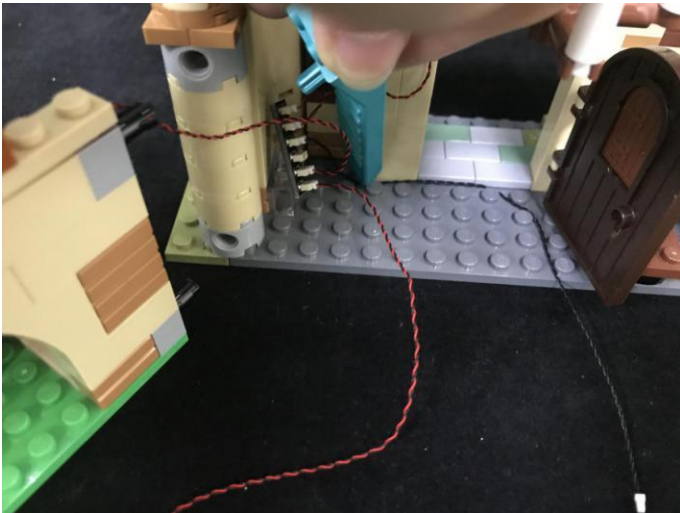


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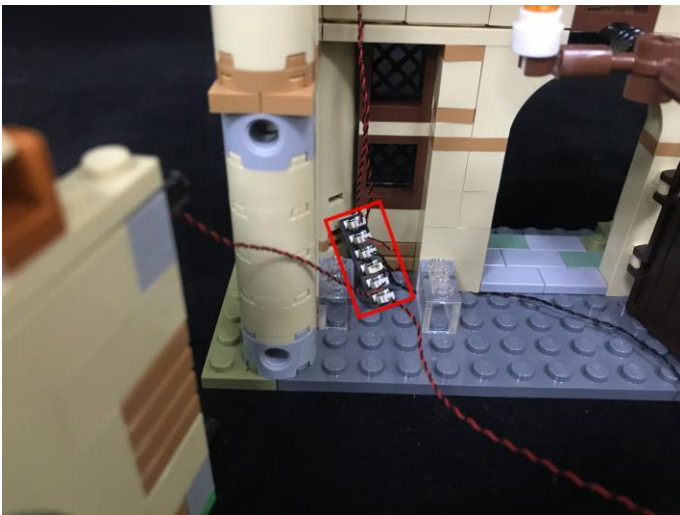




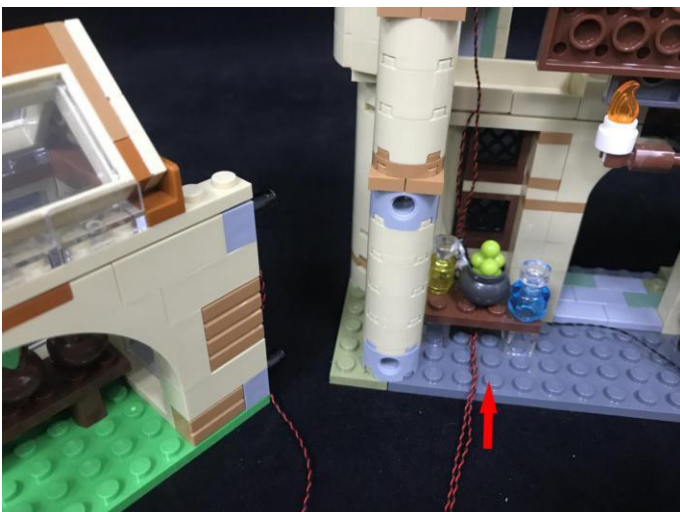
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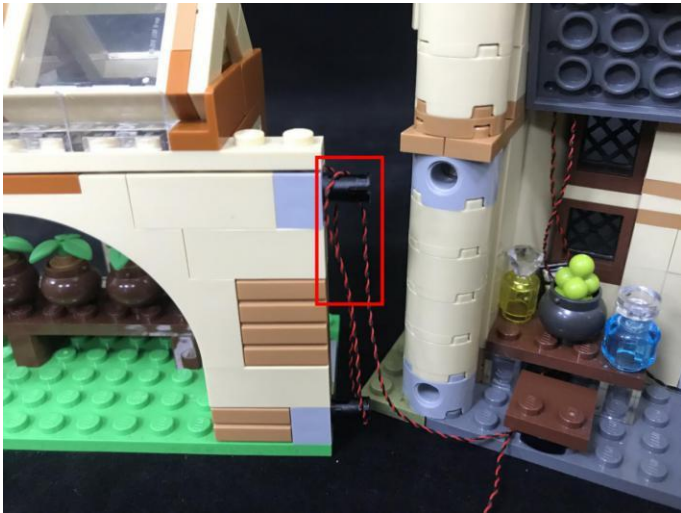


51. Place the 15cm connecting cable and the USB cable in parallel as per below.





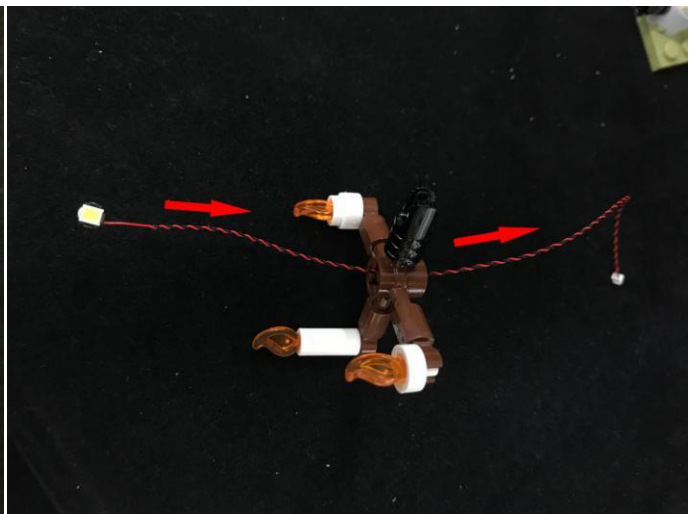
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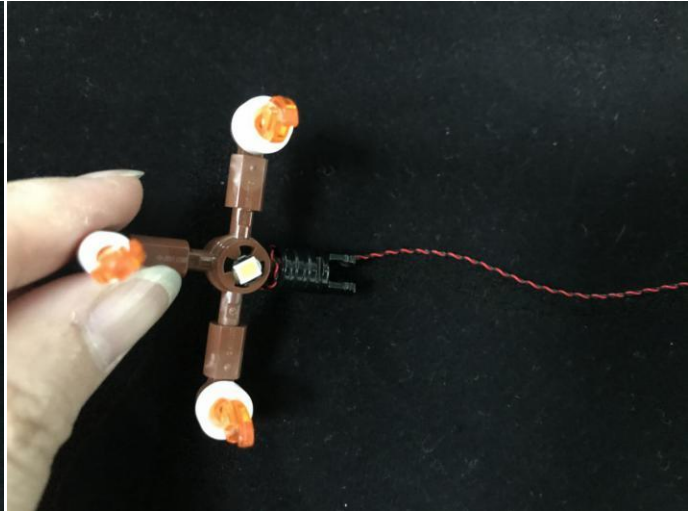
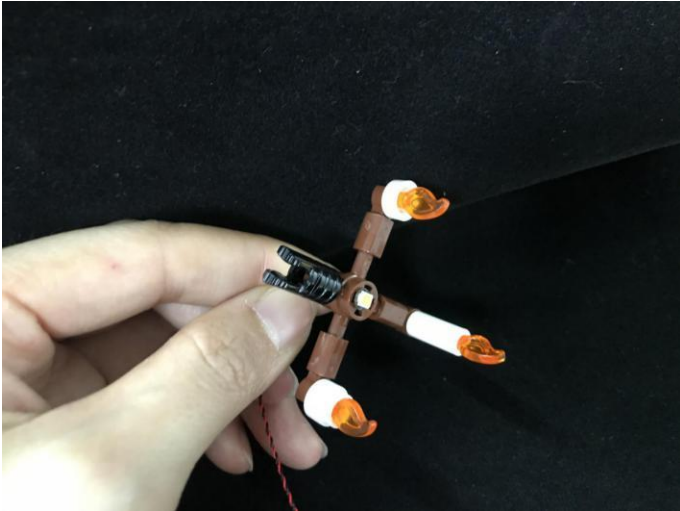
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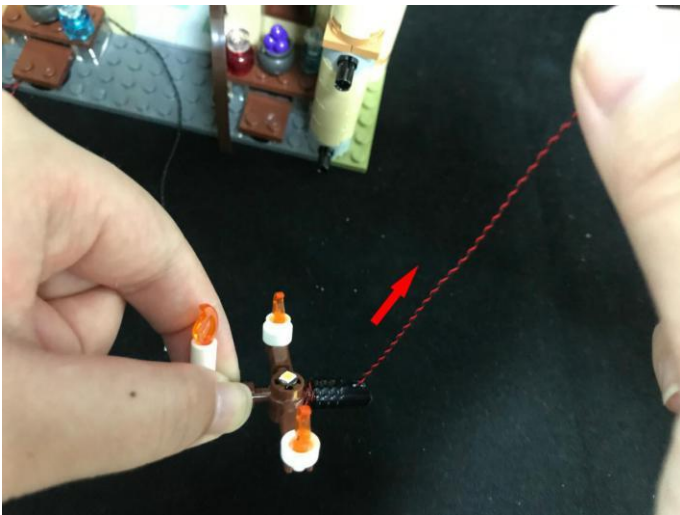
54. Take a 15cm head light.



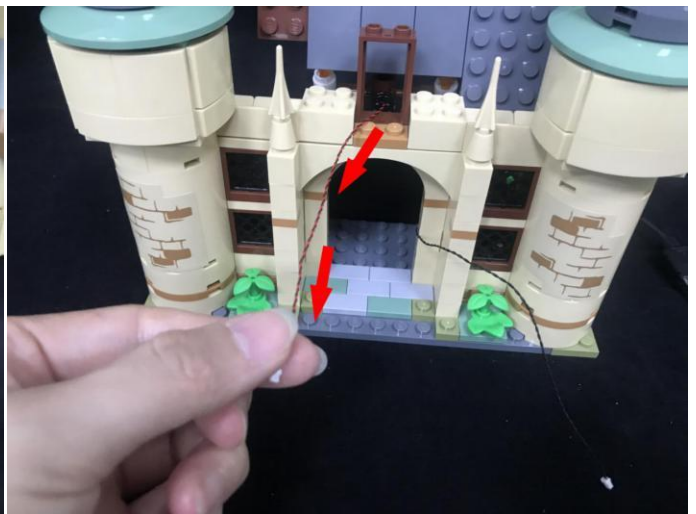
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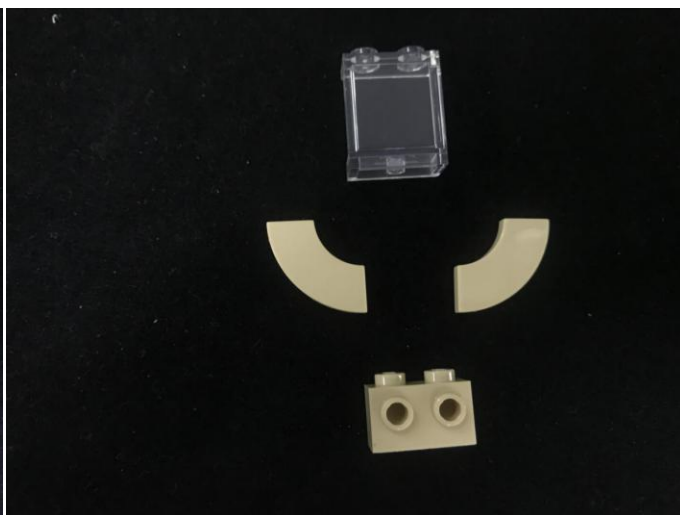
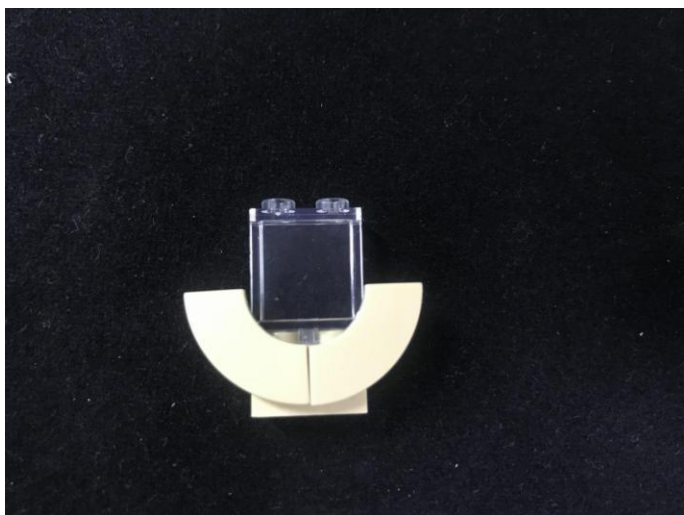


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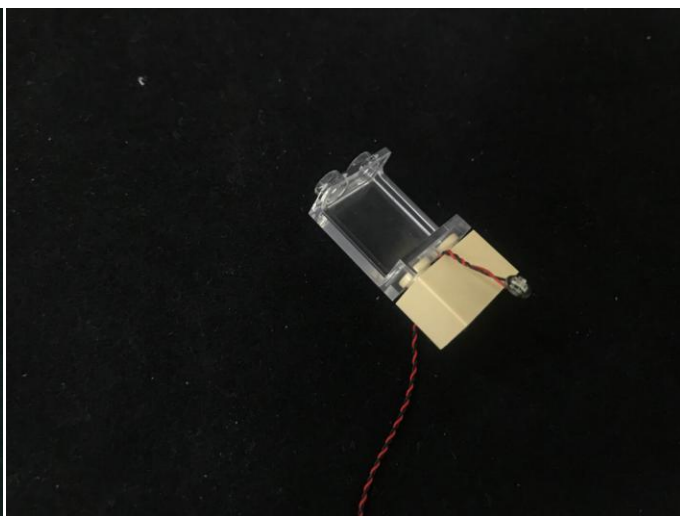
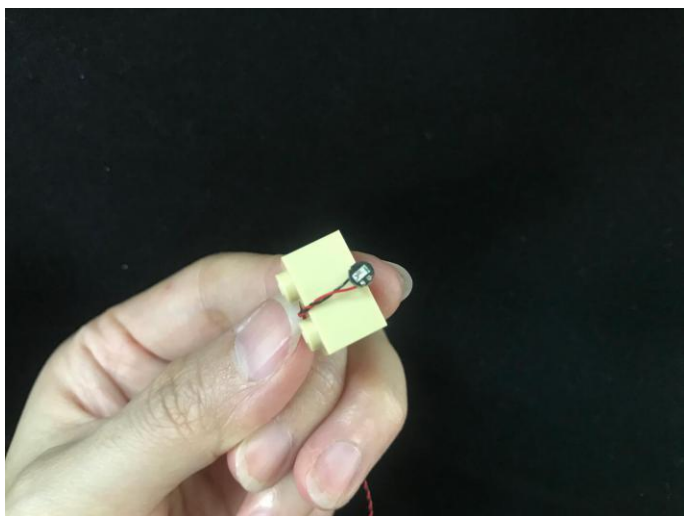
**58.**Take the following piece and disassemble it.



**59.**Take a 15cm Multi Colour Flashing Light.

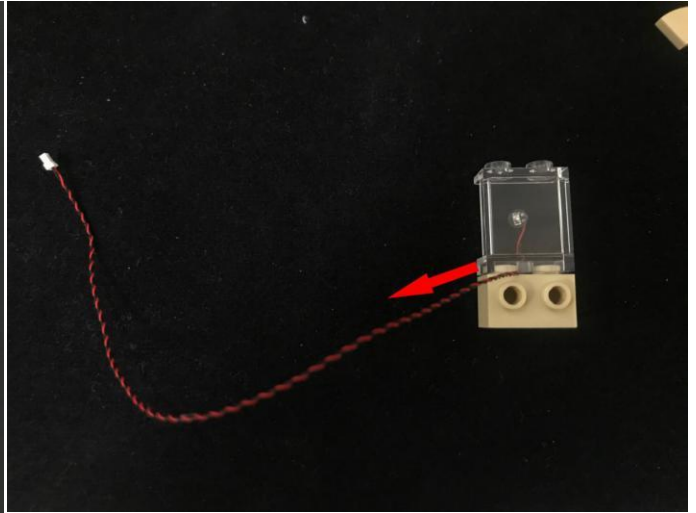
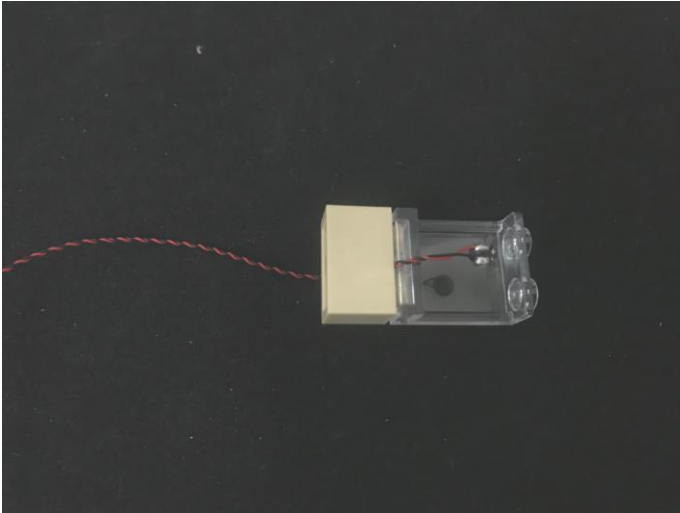


**60**

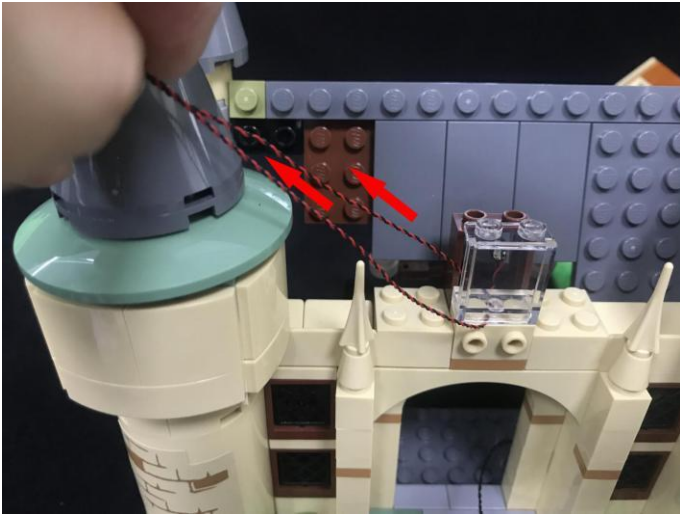




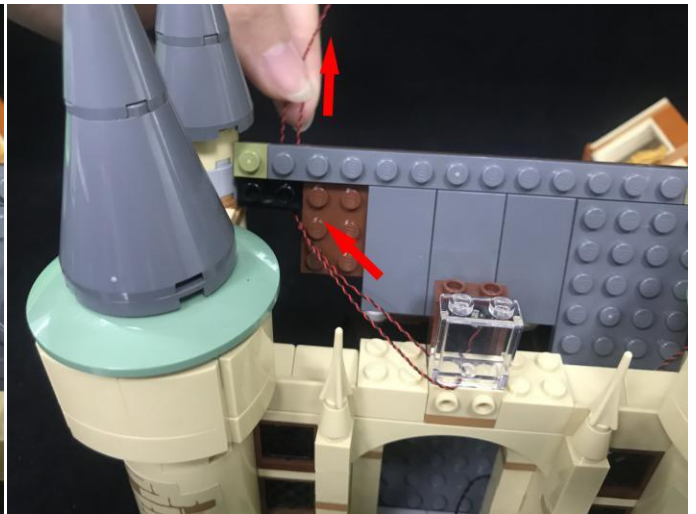
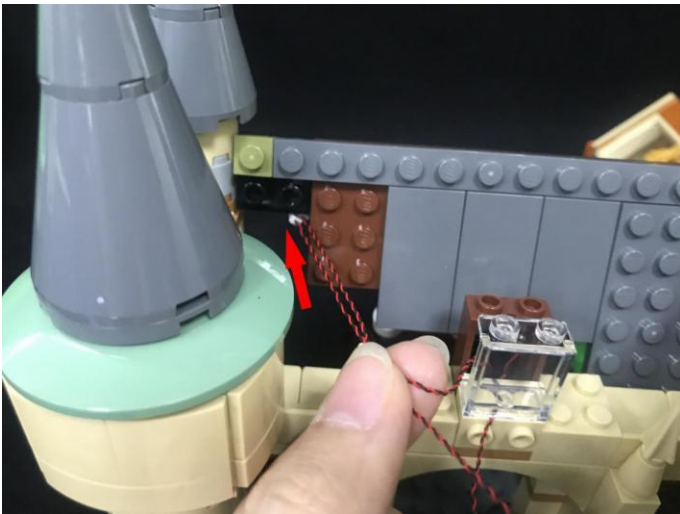
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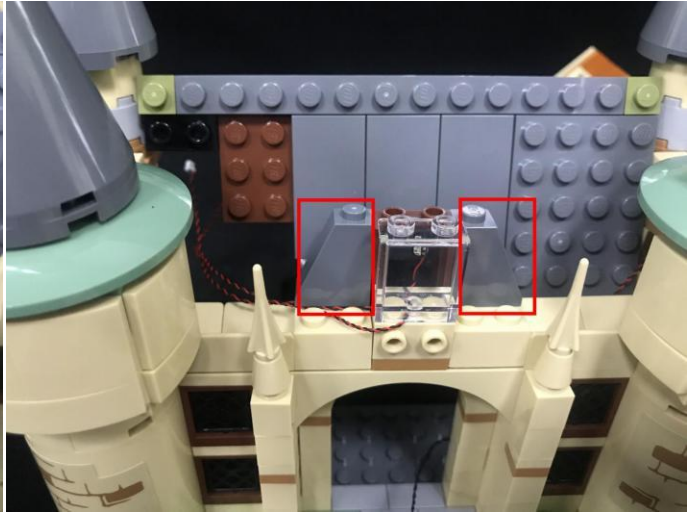
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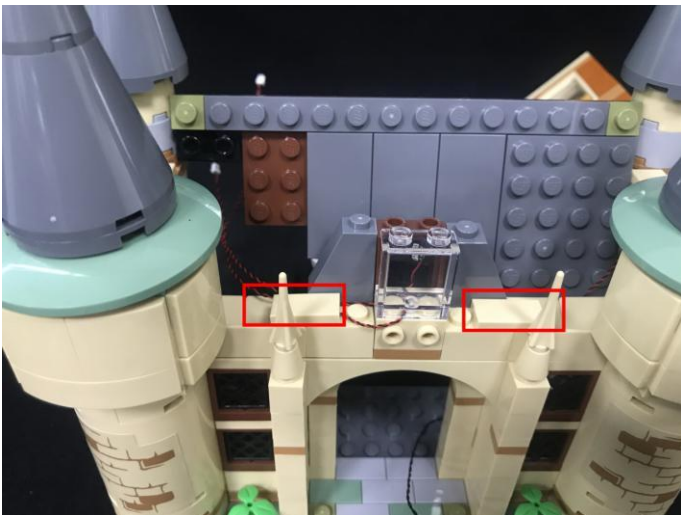
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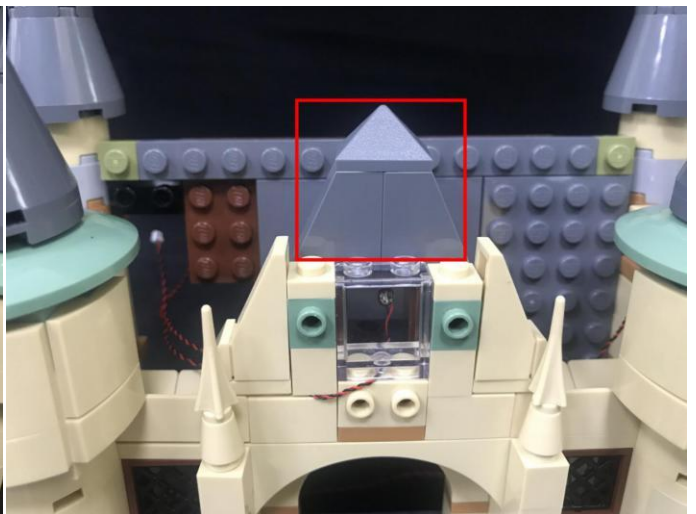
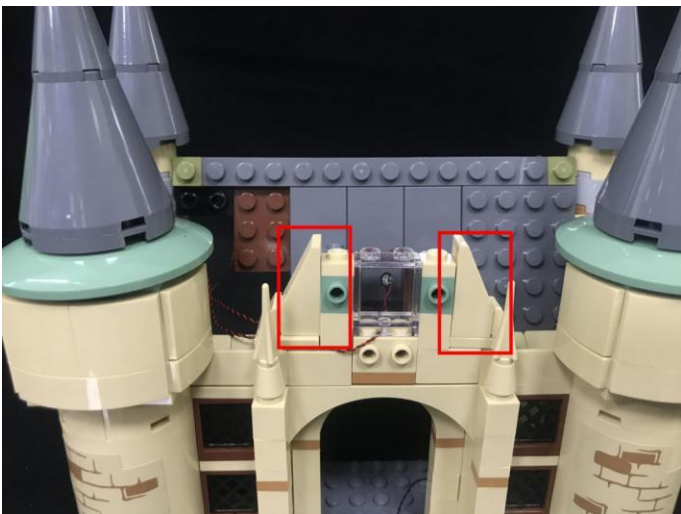
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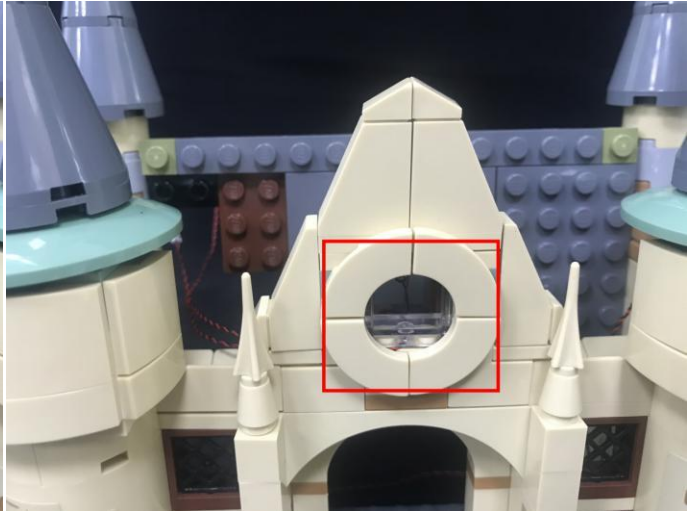
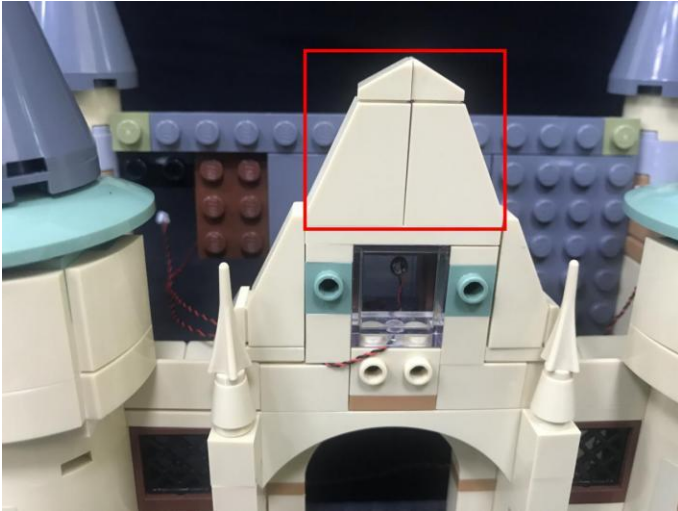


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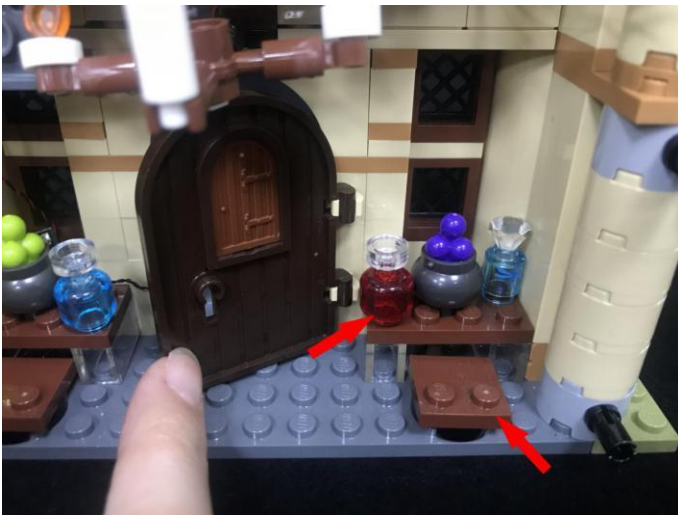




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69. Disconnect the 1x2 trans brick.

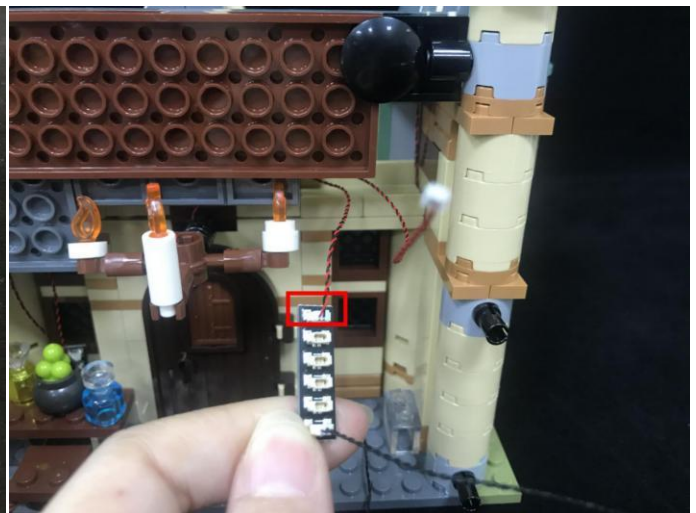




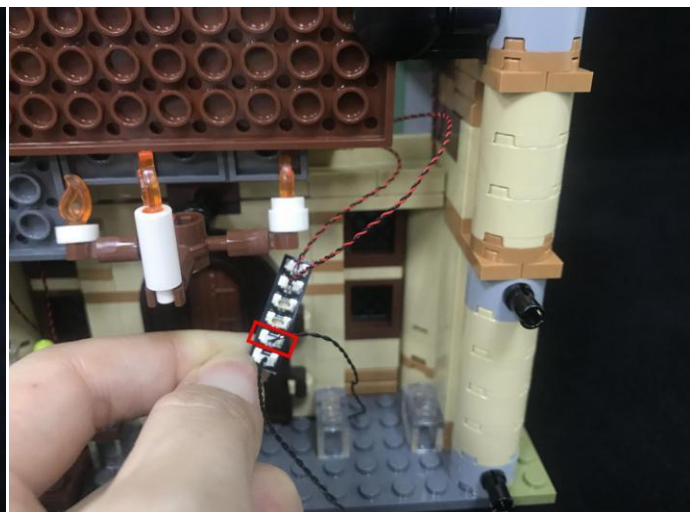
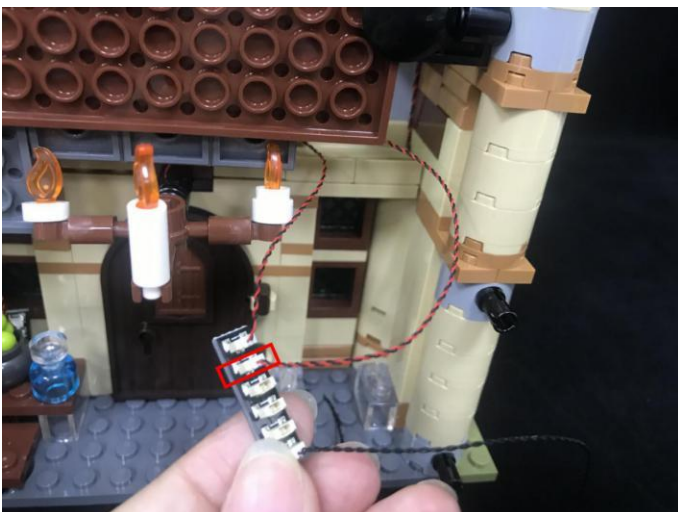
70



71. Take a 15cm connecting cable, a 6-port expansion board, assemble them as per below.



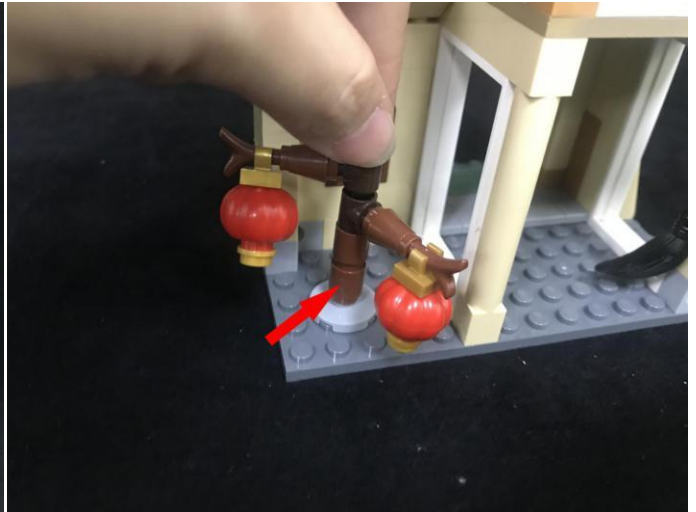
72



73



74



75

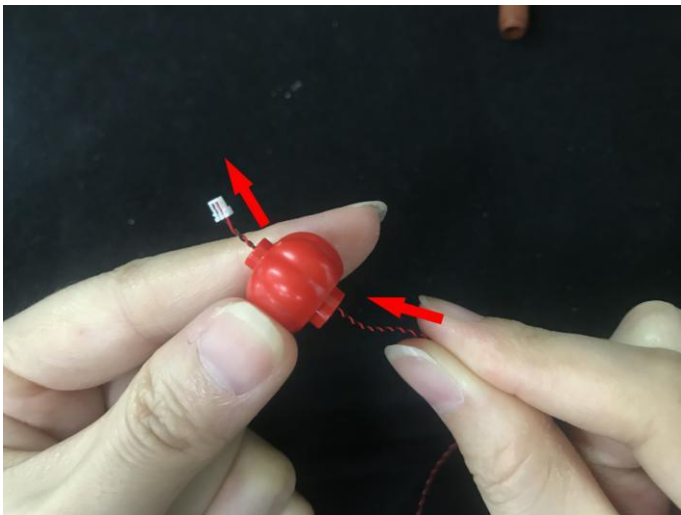




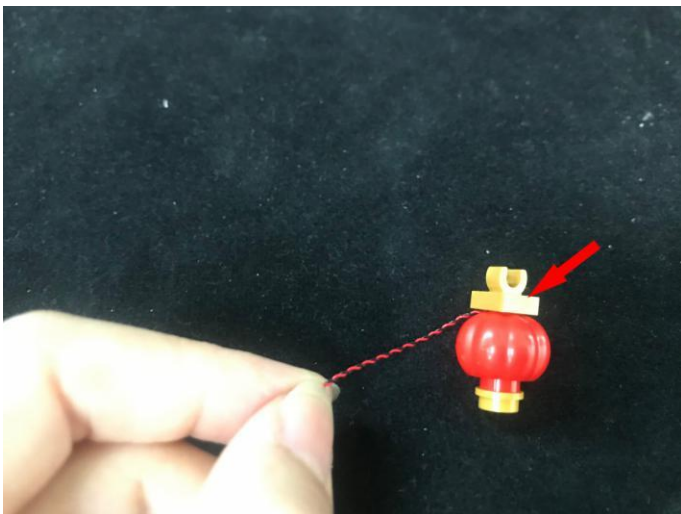
**76.**Take two 15cm head lights.



**77**



**78**

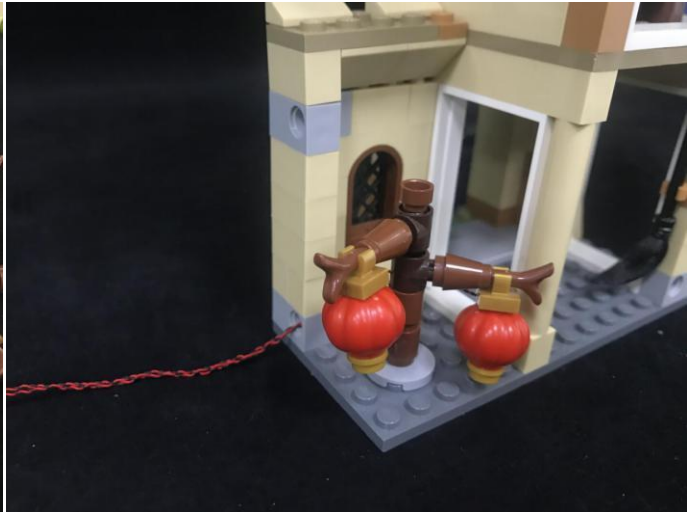
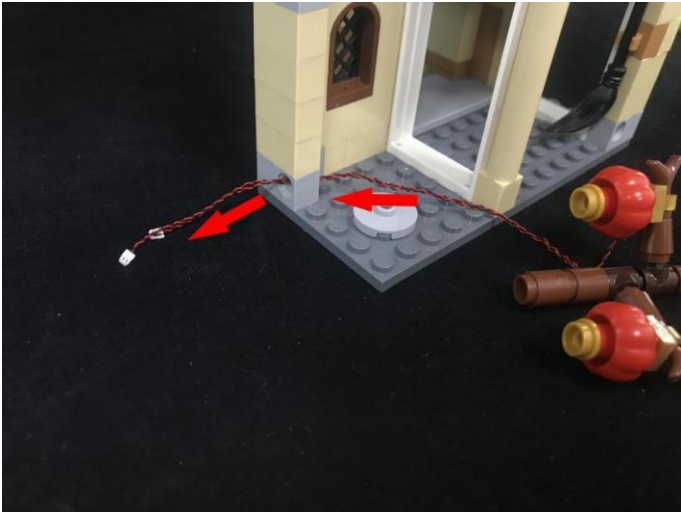




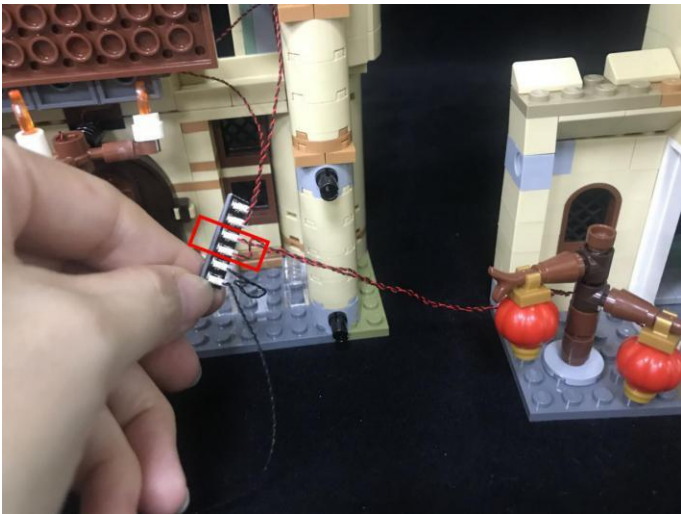
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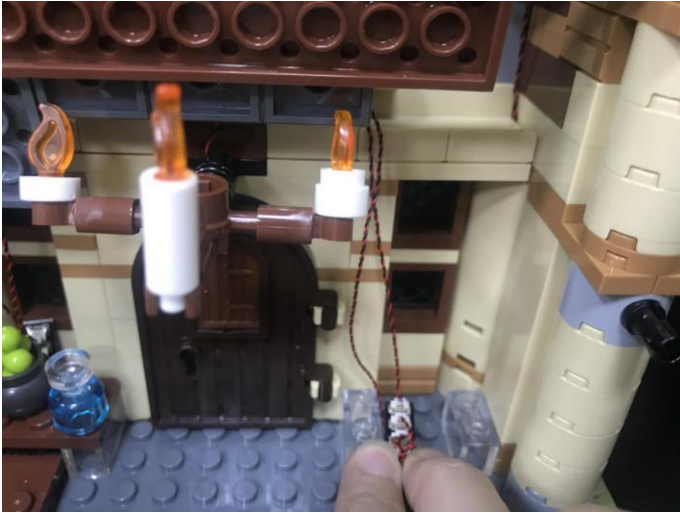
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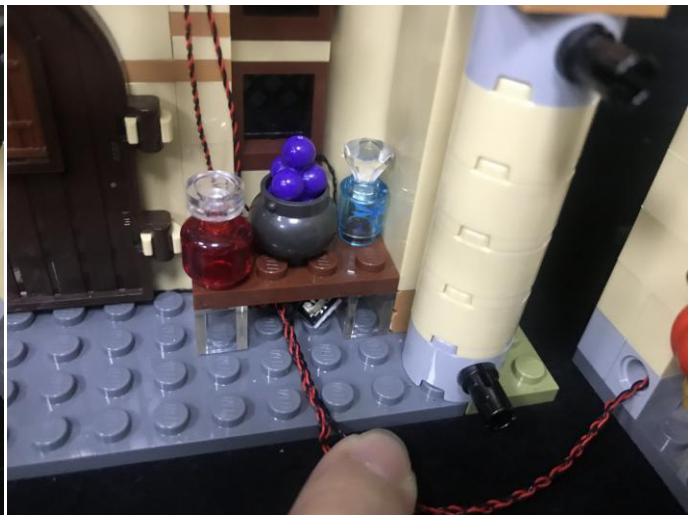
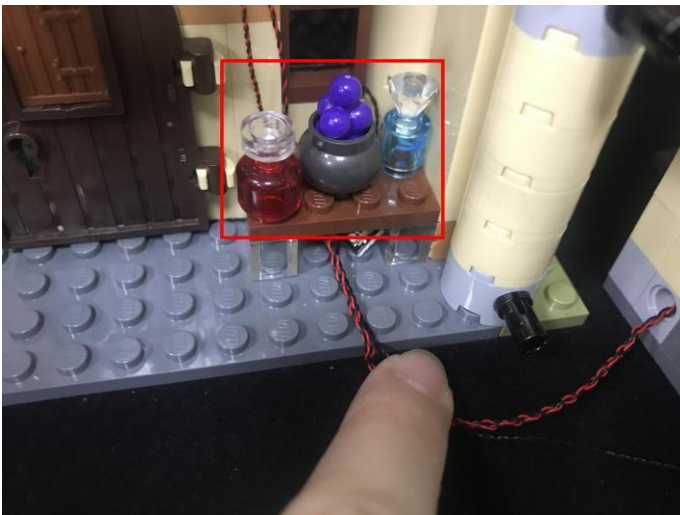
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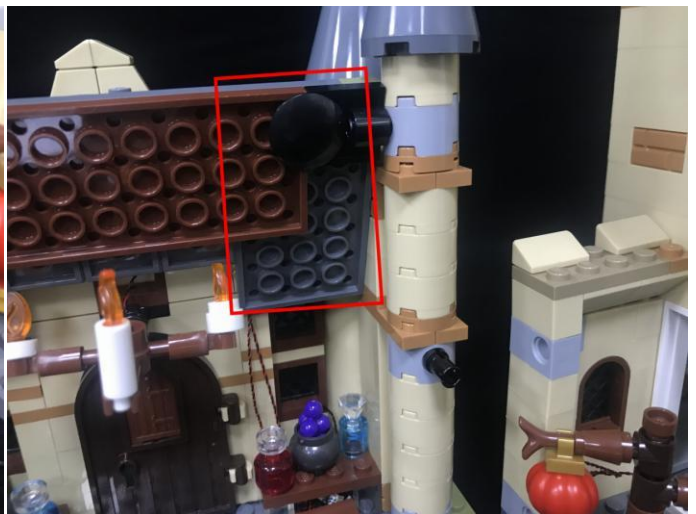
82



83

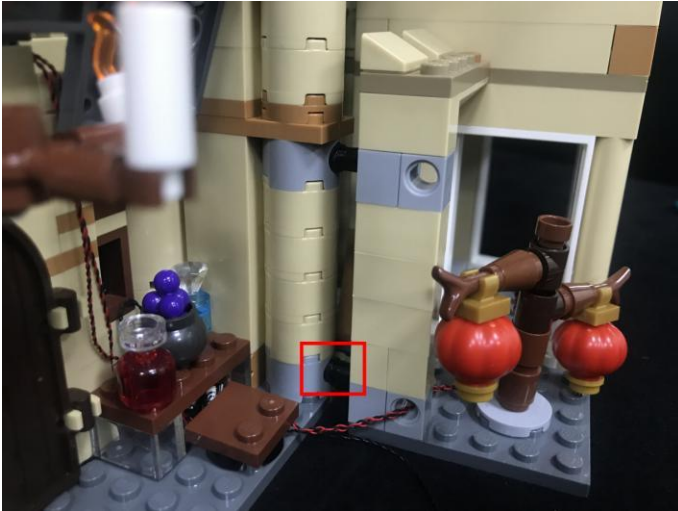


84





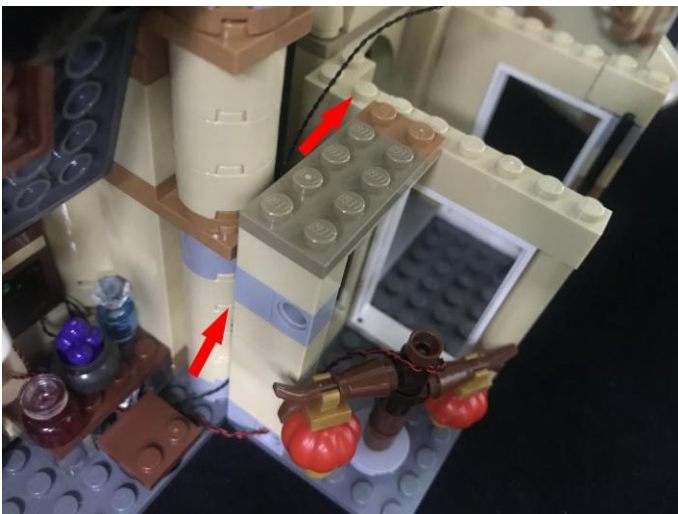
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86

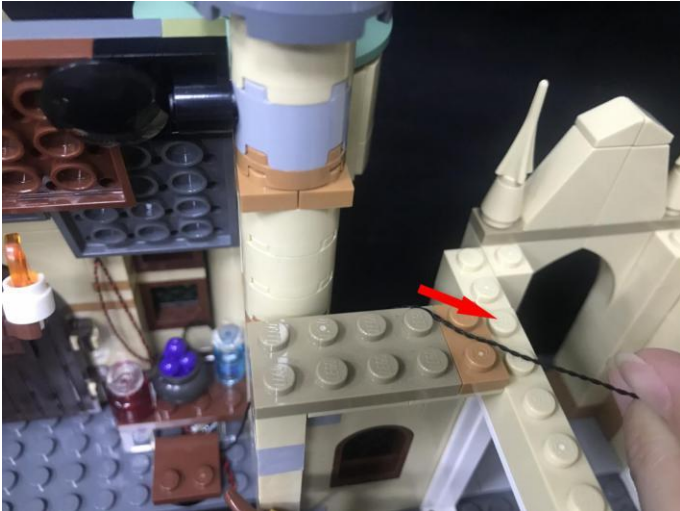


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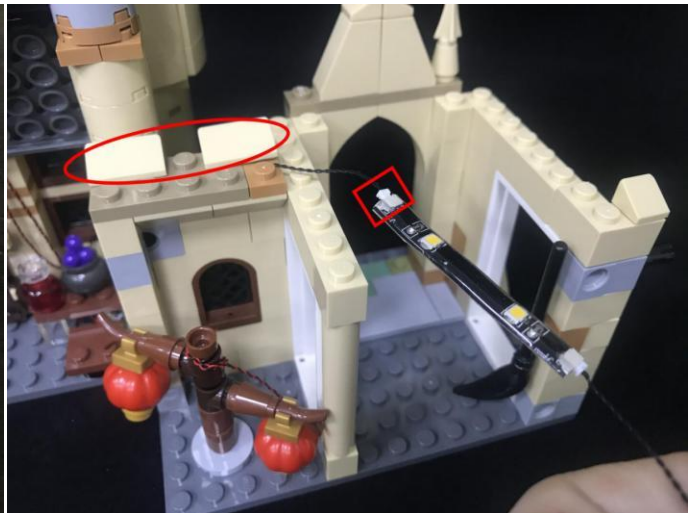




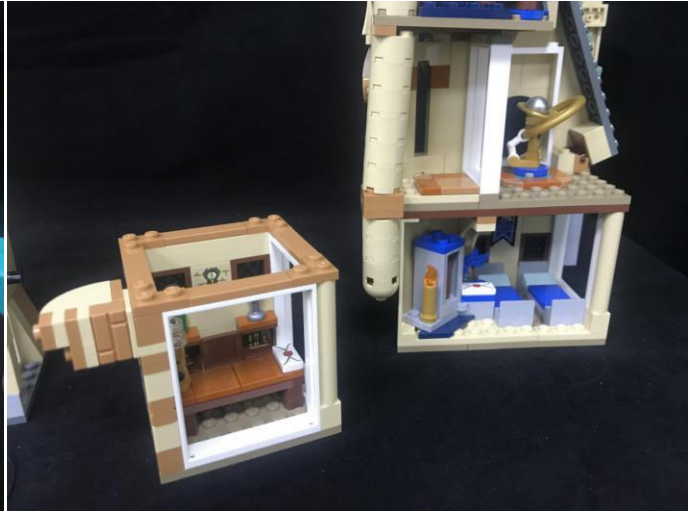
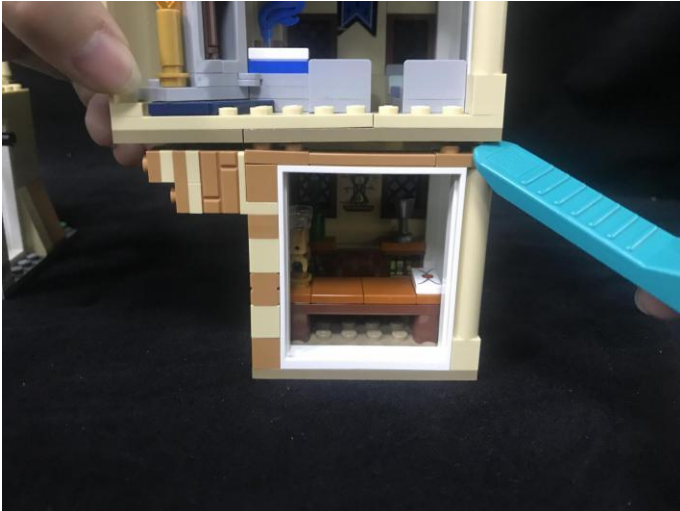
88



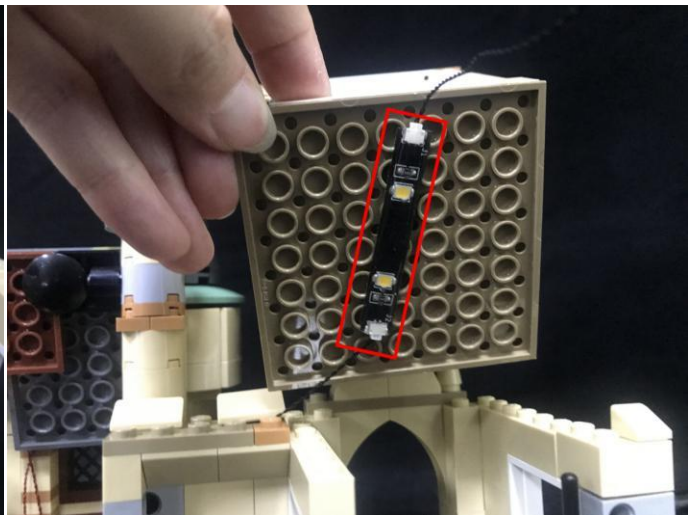
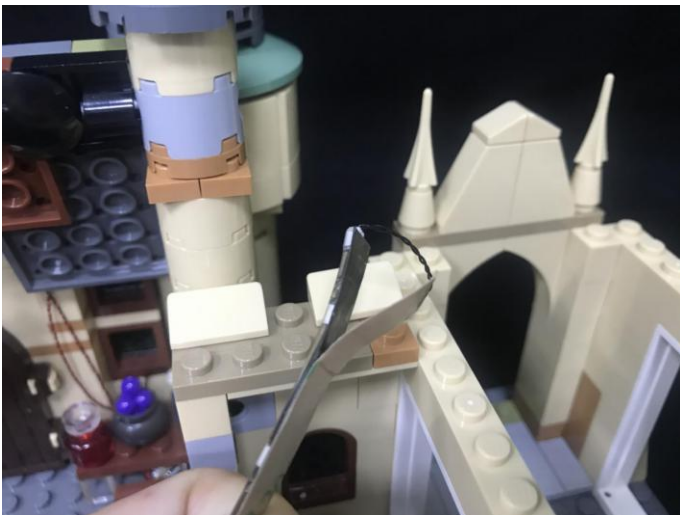
**89.**Reconnect the following pieces, take a 15cm connecting cable, a warm white strip light, assemble them together, connect the 15cm connecting cable from the wall to the other end of the strip light.



90



91



92

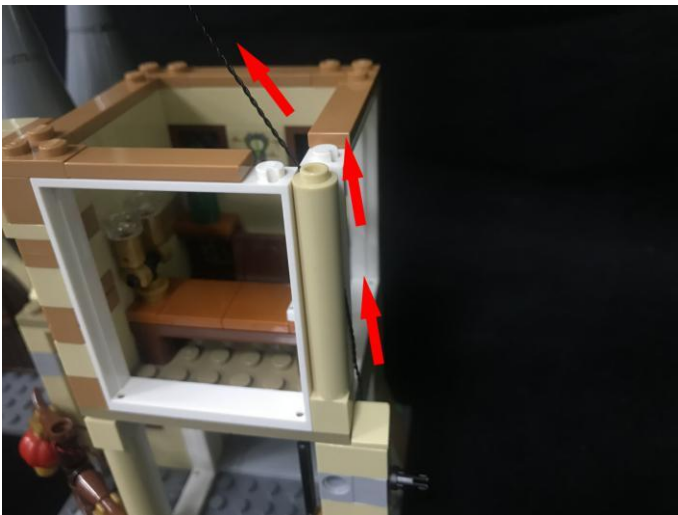




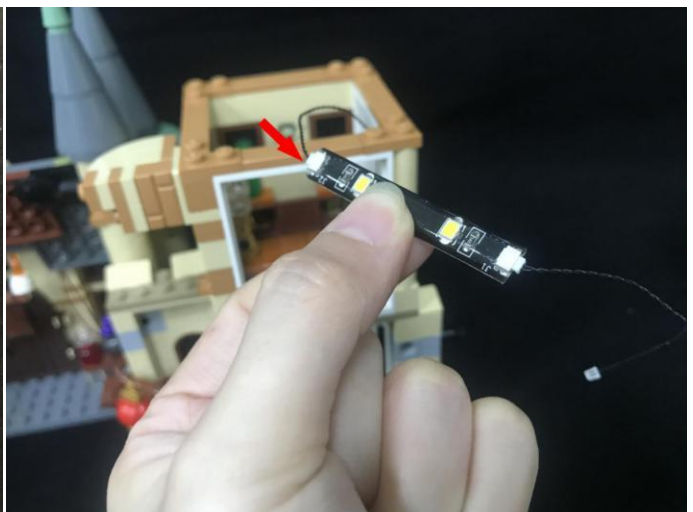
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94

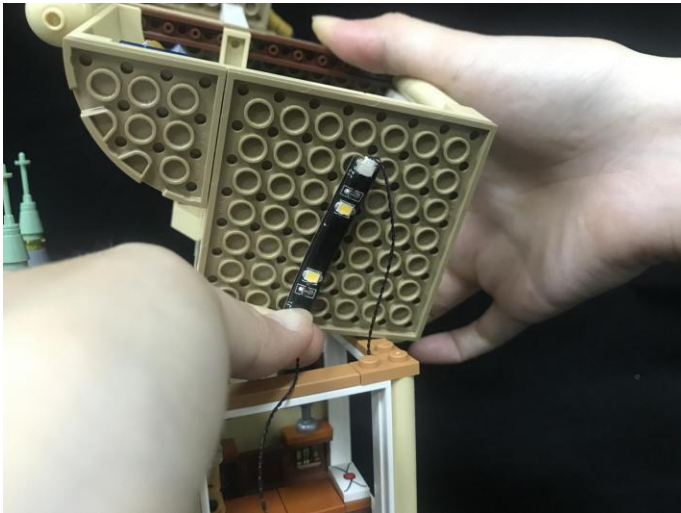


95. Take a 15cm connecting cable, a warm white strip light, assemble them together.





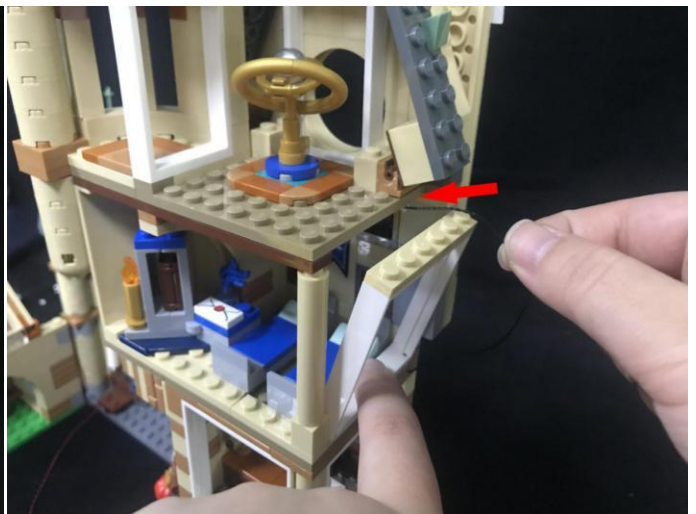
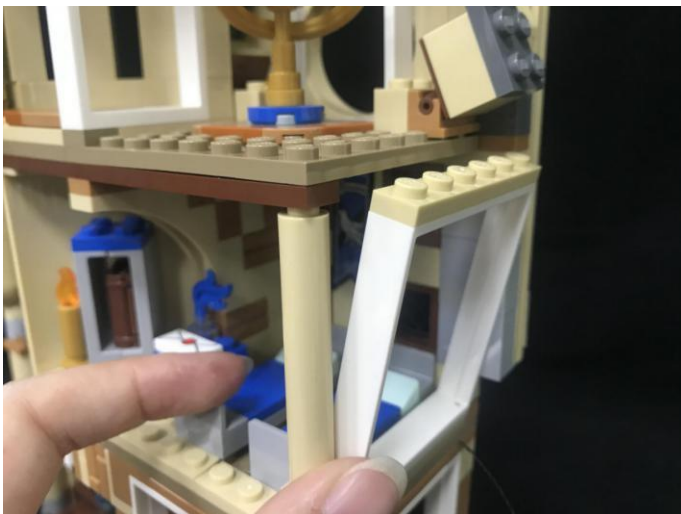
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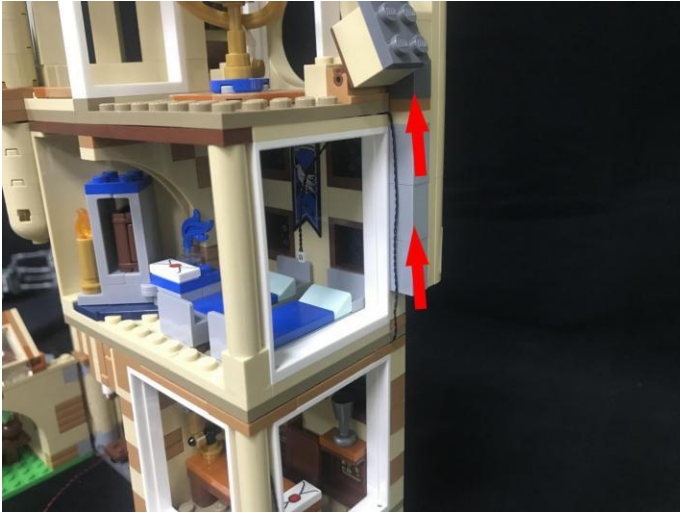
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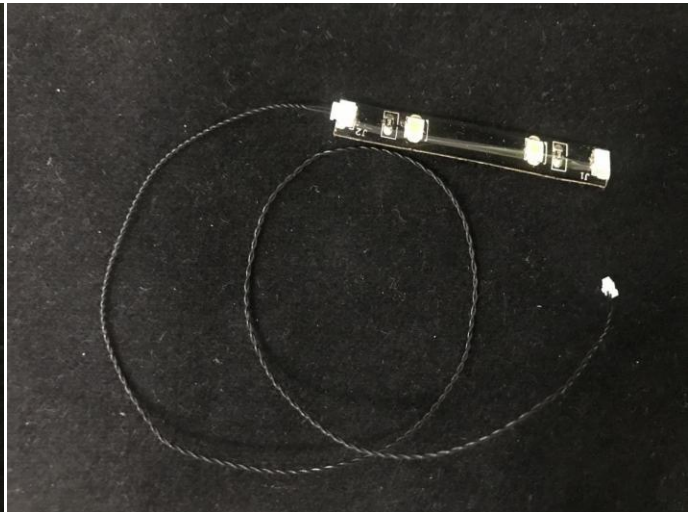
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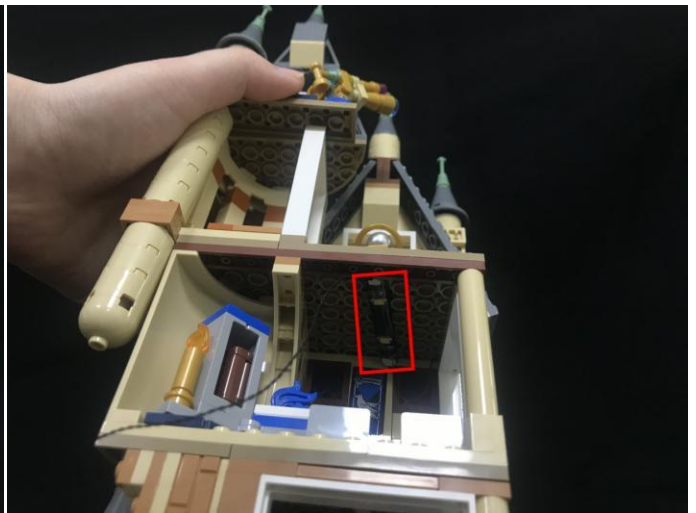
99



100. Take a 30cm connecting cable, a warm white strip light, assemble them as per below.

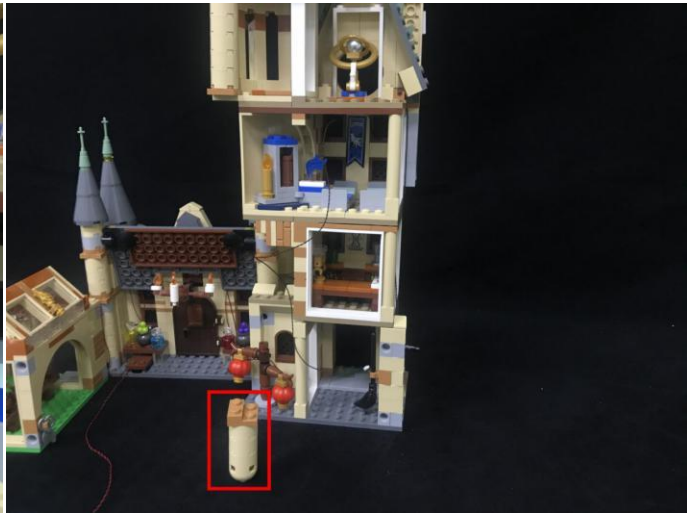
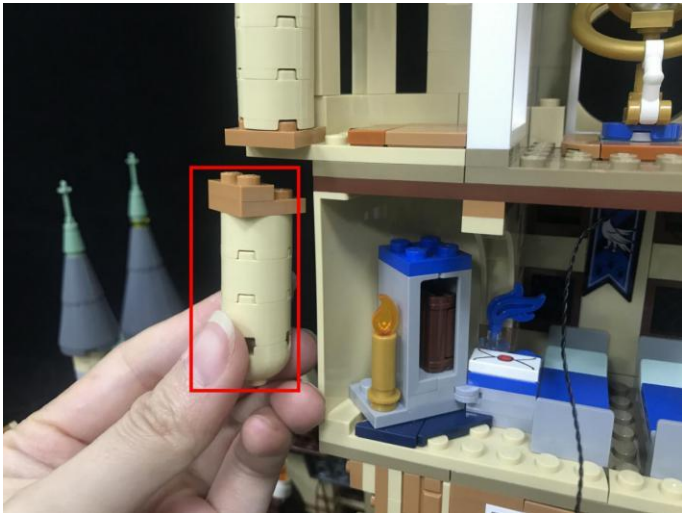


101

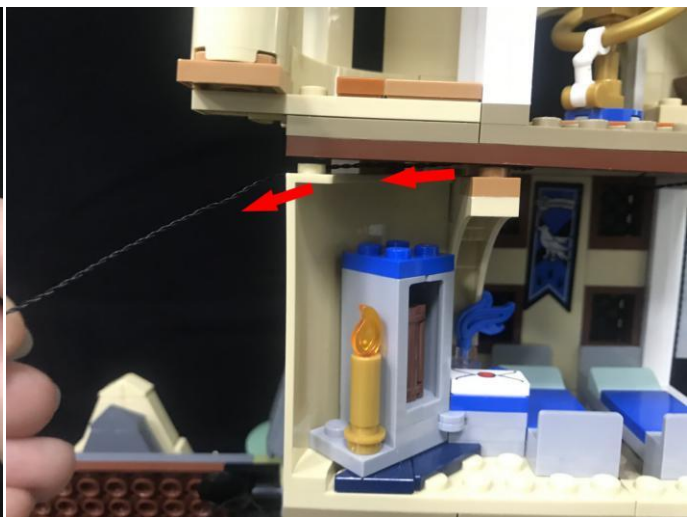
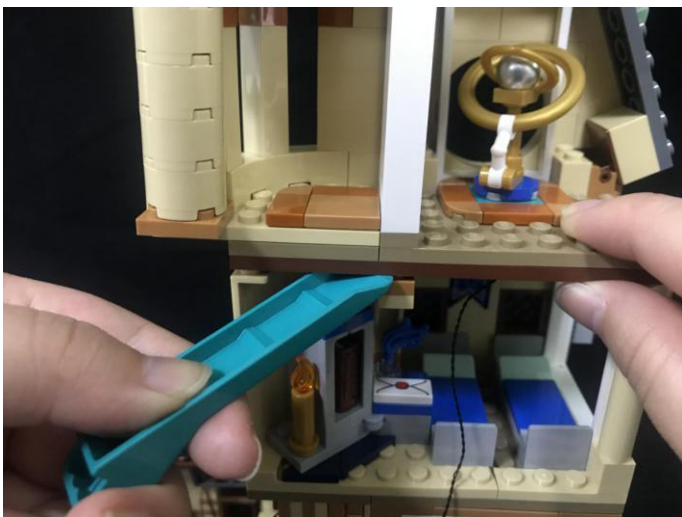




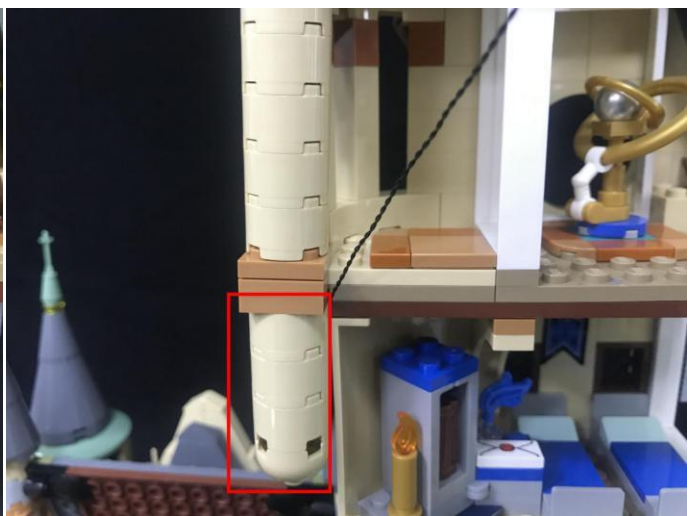
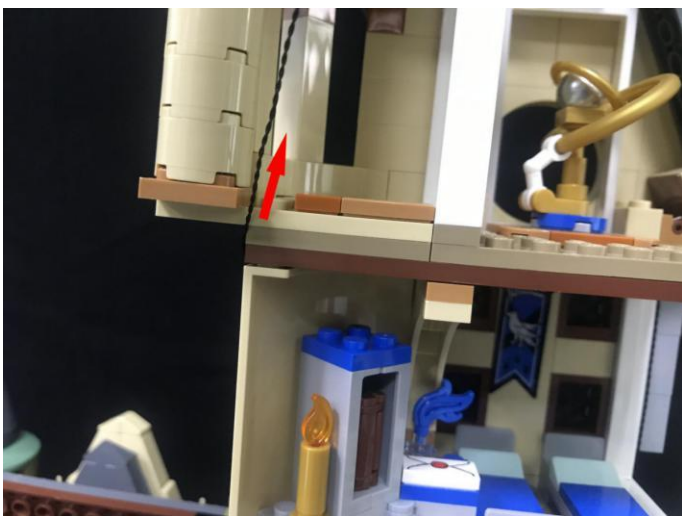
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103

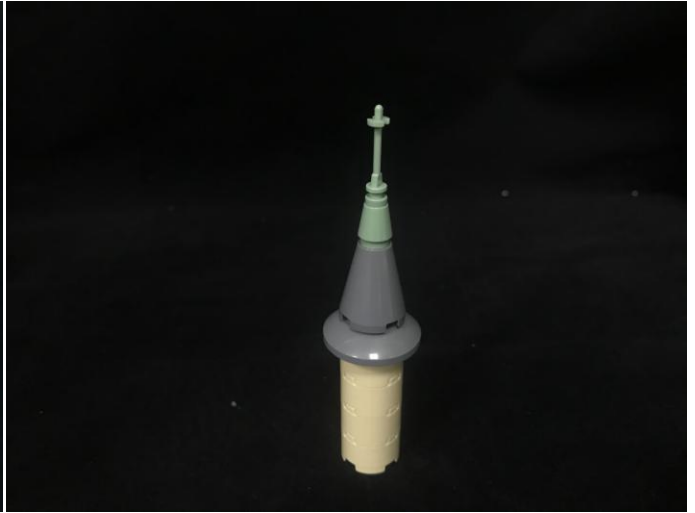


104

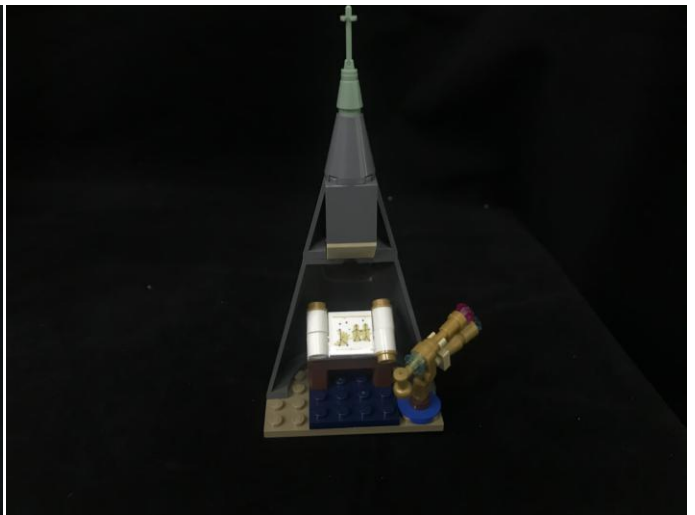




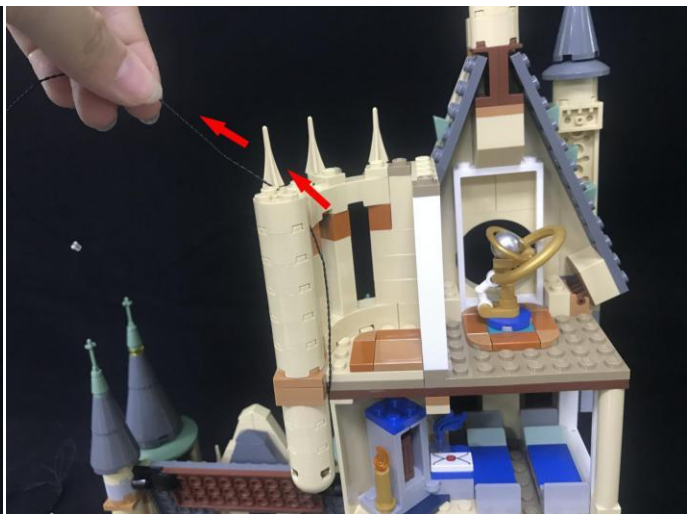
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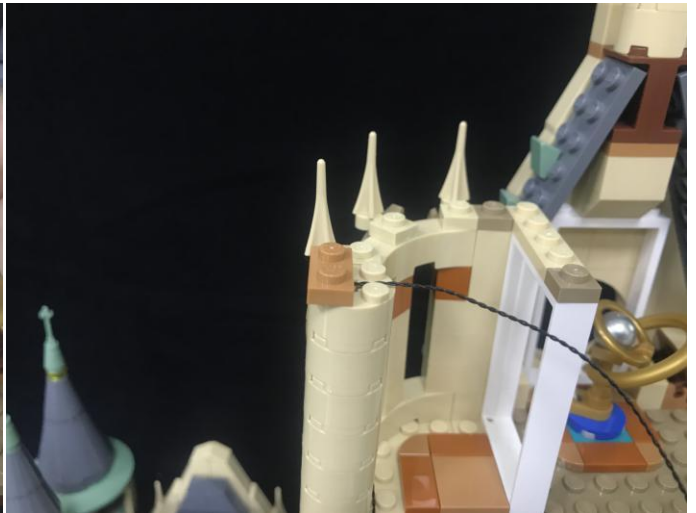
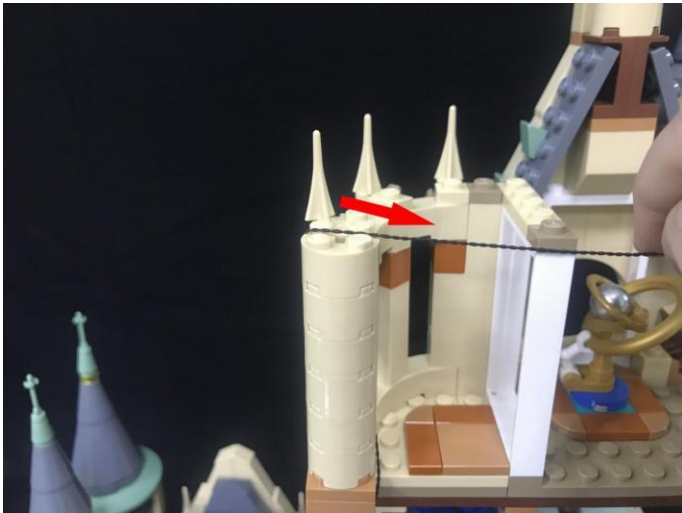
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107



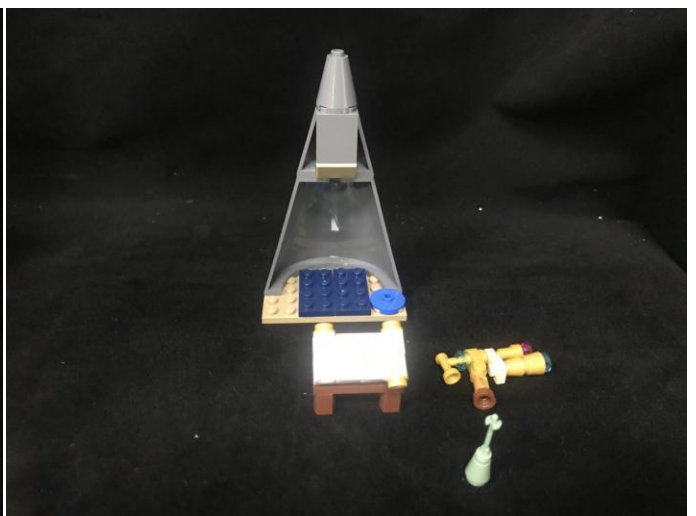
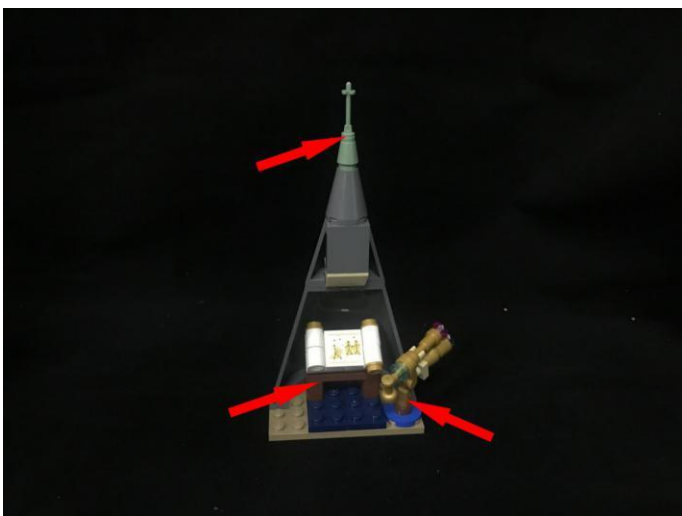
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109



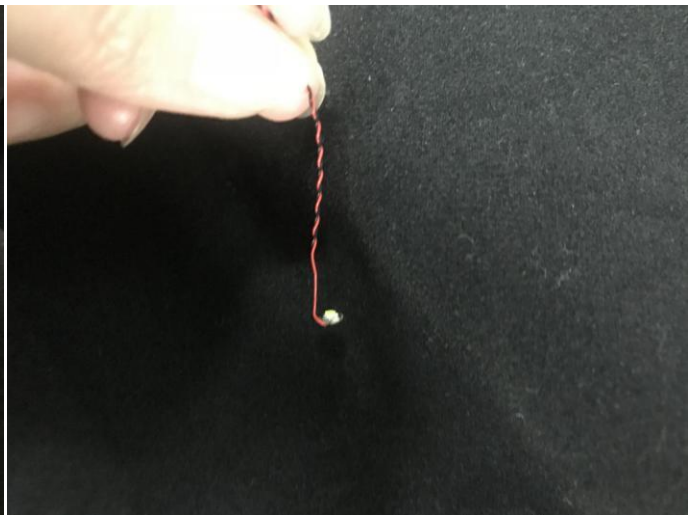
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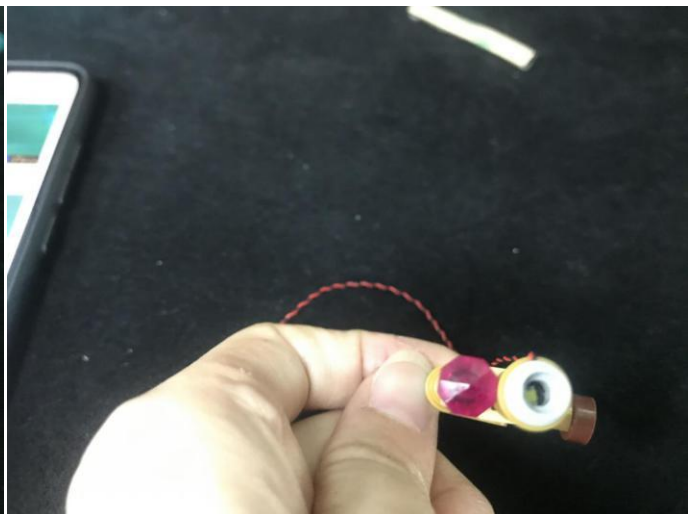
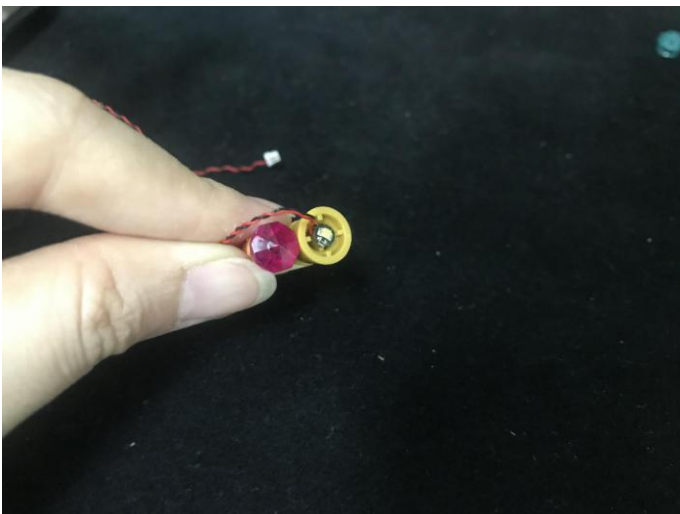
111



112. Take a white 15cm dot light, a 1x1 trans light gray piece.

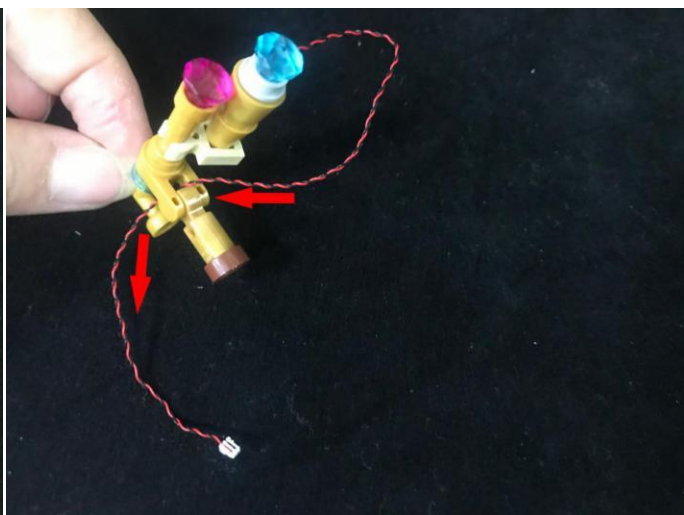
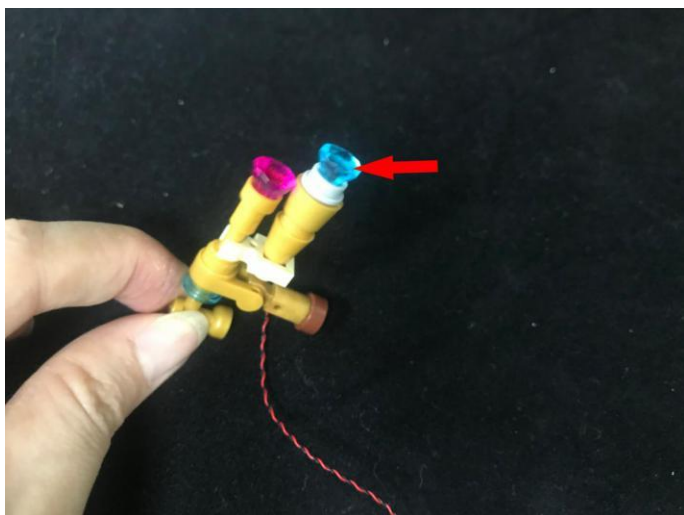


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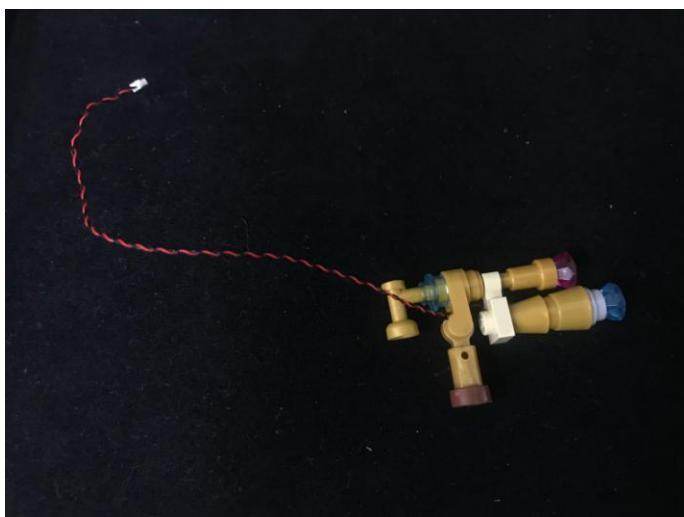




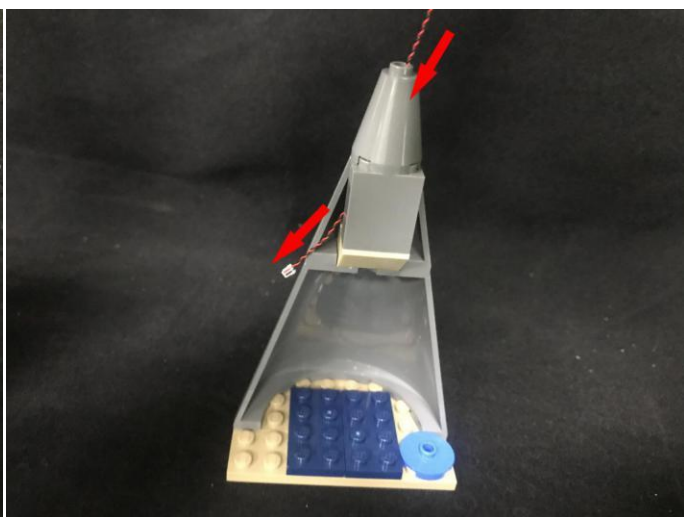
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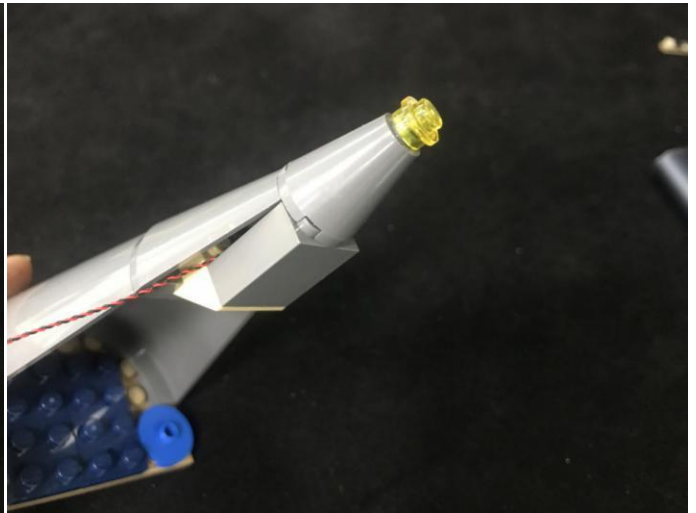
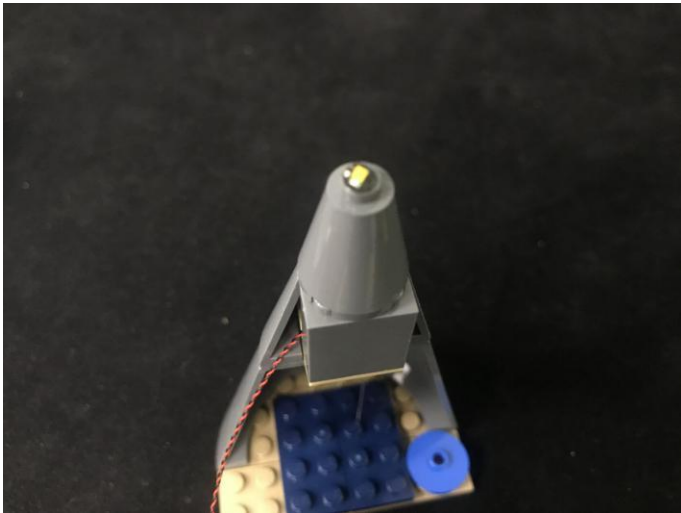
115



116. Take a warm white 15cm dot light, a trans yellow 1x1 round piece.



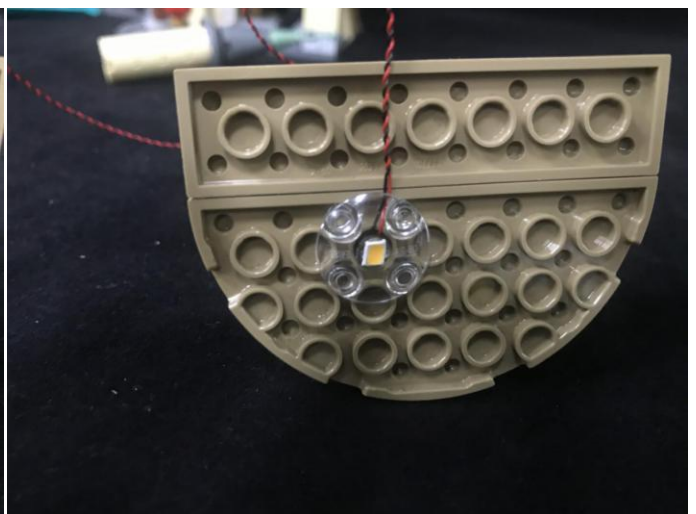
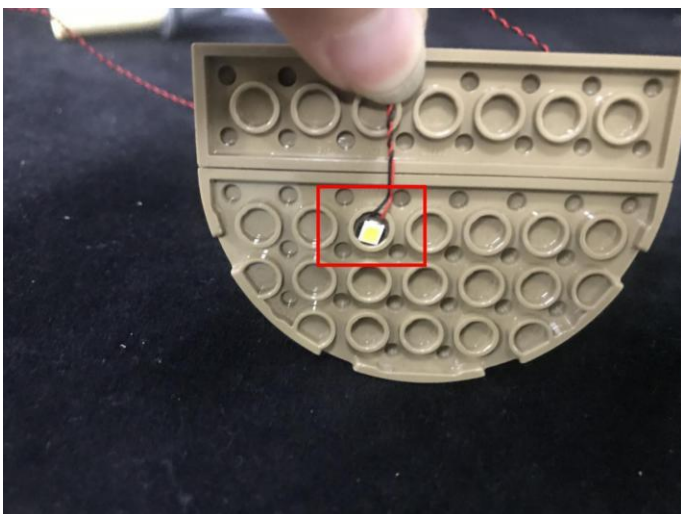
117



118. Take a 15cm head light, a 2x2 trans round piece.

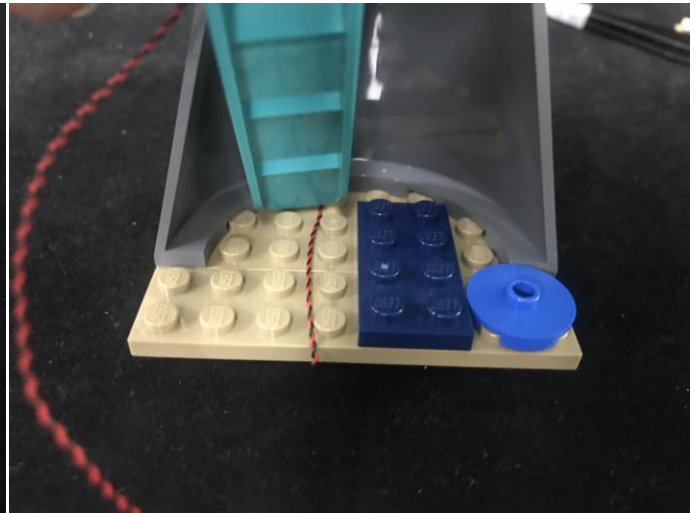
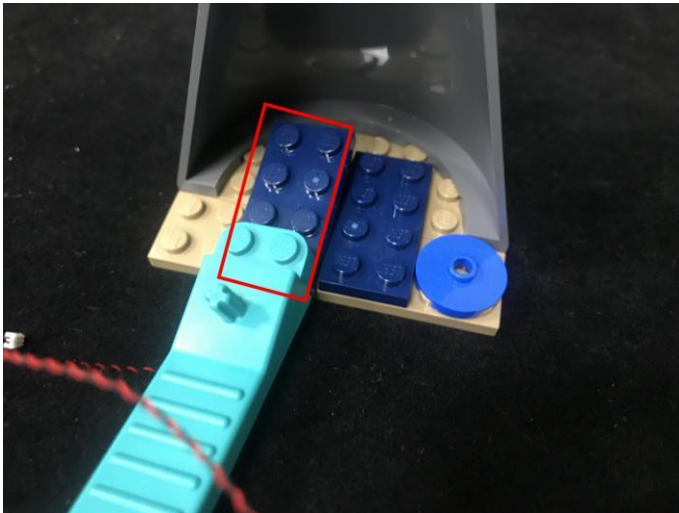


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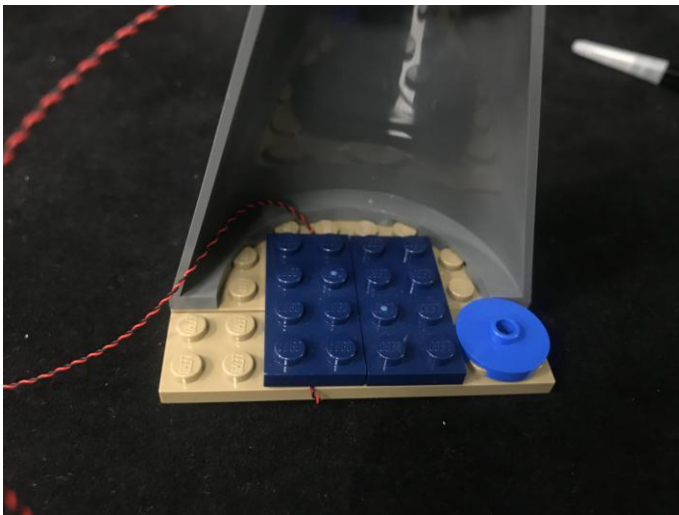




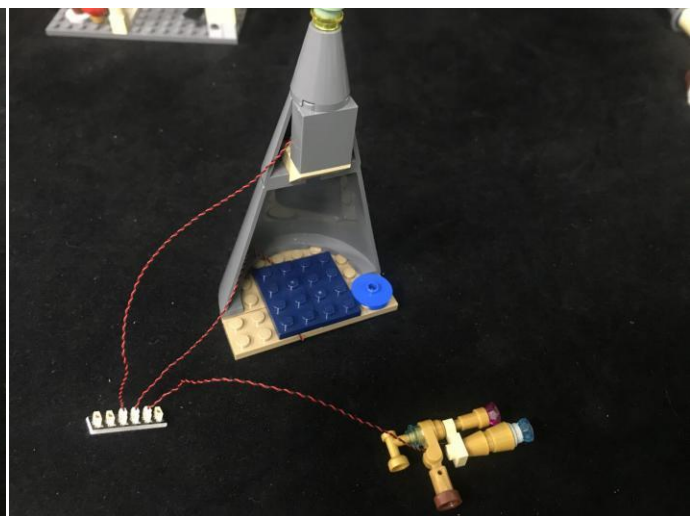
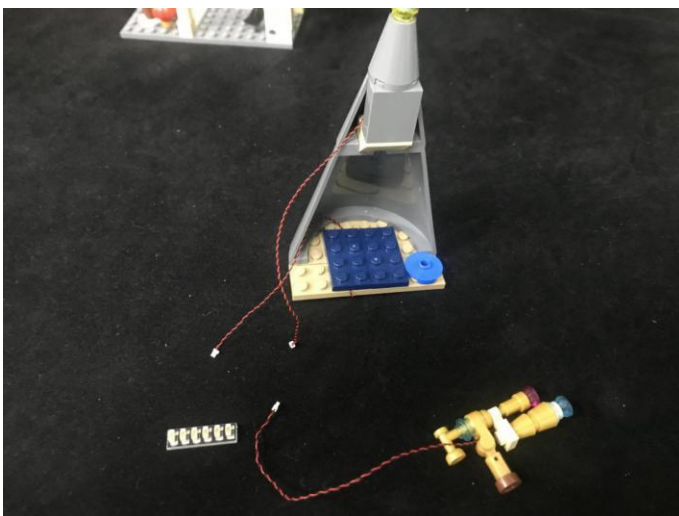
120



121. Take a 6-port expansion board.

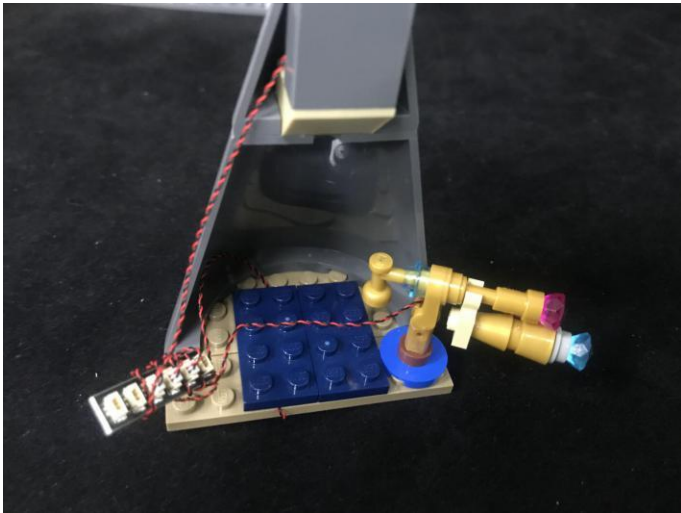


122

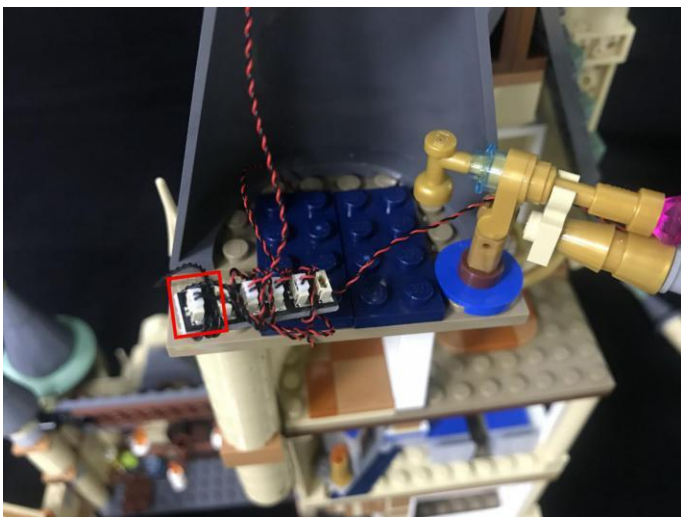




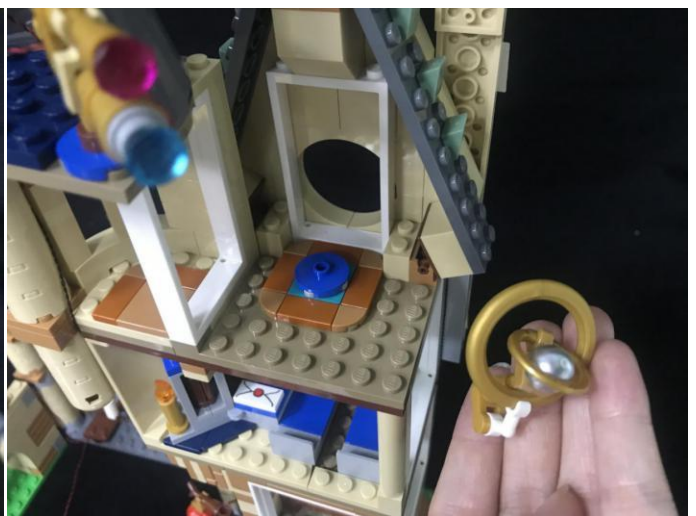
123



124



125



**126**



**127.** Take a warm white 15cm dot light, a trans yellow 1x1 round piece.



# Tips

The plate without slit:

## The plate without slit:

The squeeze causes the protective layer of the wire to be torn apart, the positive and negative wires touch together, and the set is short-circuited and the hot or wire is crushed, the wire to be disconnected and don't work.



The plate with slit:

## The plate with slit:

The wire has enough space to avoid being squeezed and is endowed with longer service life and more stable effect.

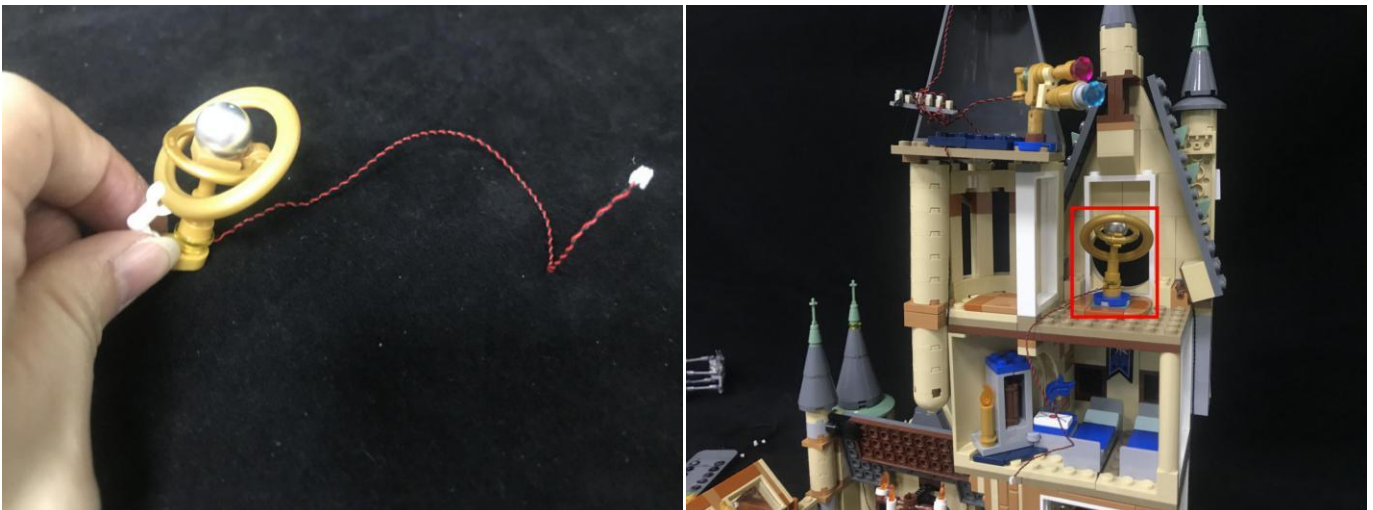


The slit on the the plate round 1X1 are hand-made to avoid squeeze the wire and cause short circuit and abnormalheat during installation.

## 128

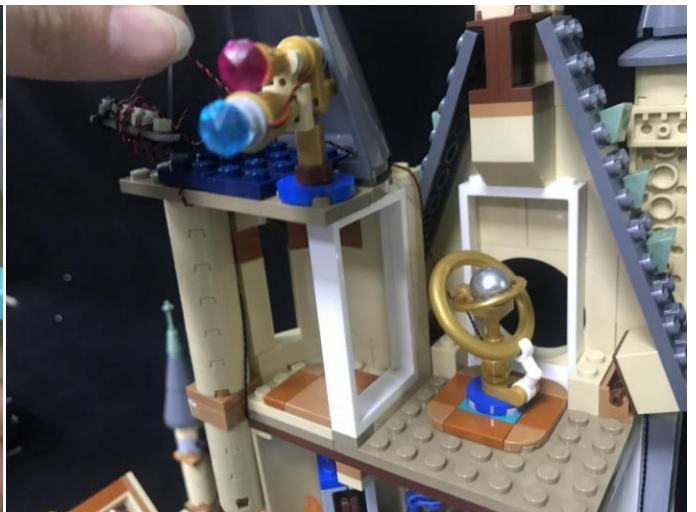
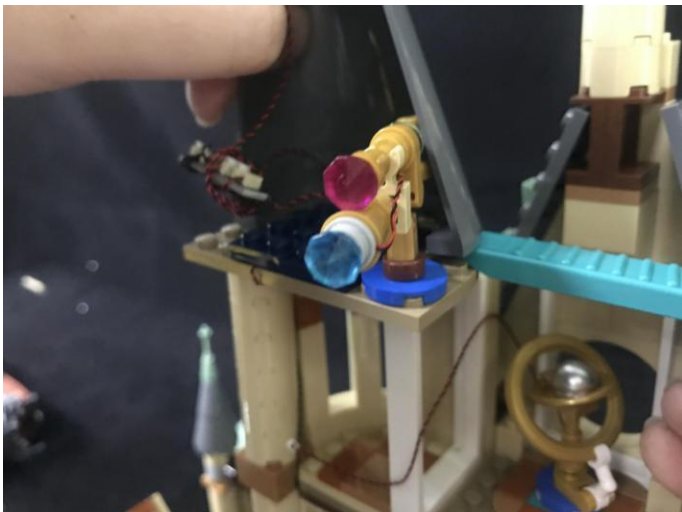


## 129

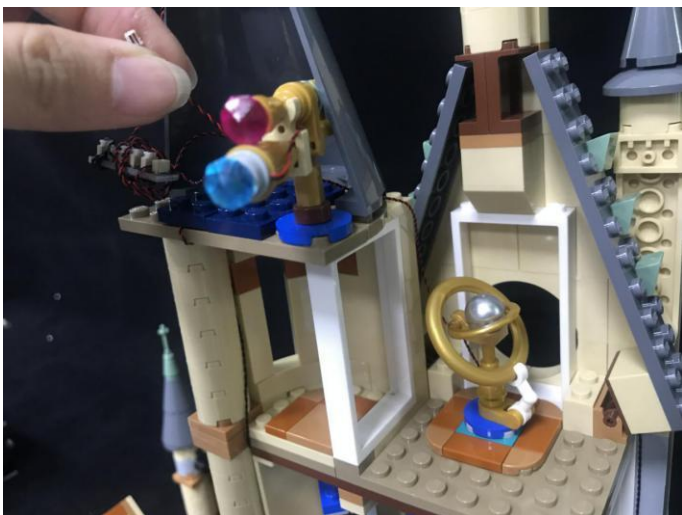




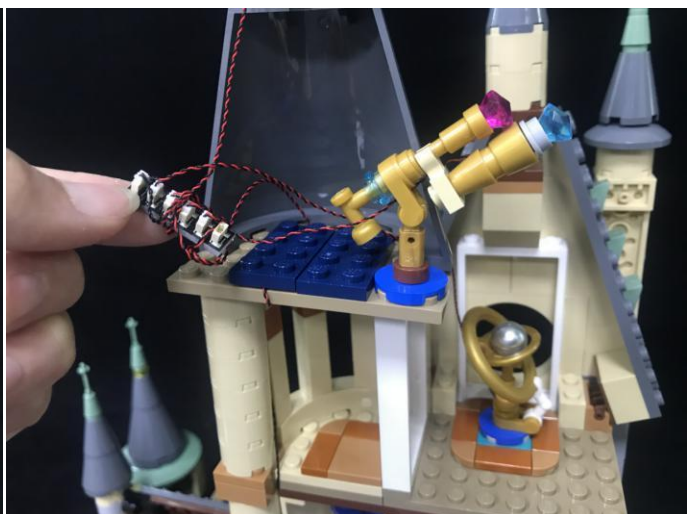
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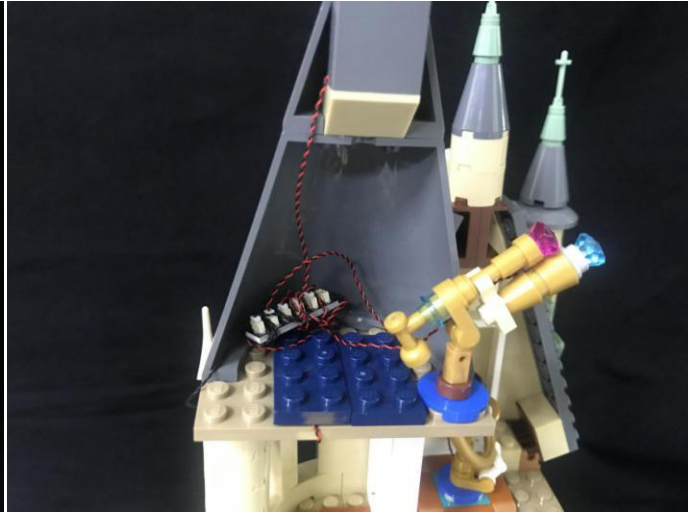
131



132



133



134



135



**Good job, you've done all the installation steps, power it up and enjoy your work.**

