

# 10316 The Lord of the Rings: Rivendell P46501

- **P46501 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 “10316 P46501”.**
- **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 20 bags in this set. The name and quantities of specific components are as shown , please check carefully.

Label	Content	Quantity
A01001 Light-15CM Warm White	Light-15CM Warm White	2
A01002 Light-15CM White	Light-15CM White	3
A01022 Slow Flash-30CM Multi-Colour	Slow Flash-30CM Multi-Colour	1
A01023 High-Brightness Light 30CM-Warm White	High-Brightness Light 30CM-Warm White	5
A01024 High-Brightness light 15CM-Warm White	High-Brightness light 15CM-Warm White	5
A01102 LED Strip Green	LED Strip Green	1
A01103 LED Strip Blue	LED Strip Blue	1
A01105 LED Strip Warm White	LED Strip Warm White	8
A012 Expansion Board	2 Socket Expansion Board	1
	4 Socket Expansion Board	4
	6 Socket Expansion Board	2
	12 Socket Expansion Board	1
A01305 Power Supply	Power Supply	1
A01501 Connecting Cable 5CM	Connecting Cable 5CM	3
A01503 Connecting Cable 30CM	Connecting Cable 30CM	3
A01504 Connecting Cable 50CM	Connecting Cable 50CM	3
A01505 Connecting Cable 10CM	Connecting Cable 10CM	6
A01506 Connecting Cable 20CM	Connecting Cable 20CM	2
A1031 High-Brightness Light 15CM-Red	High-Brightness Light 15CM-Red	1
A1033 High-Brightness Light 15CM-Green	High-Brightness Light 15CM-Green	1
A1034 High-Brightness Light 30CM-Green	High-Brightness Light 30CM-Green	1
A1035 High-Brightness Light 15CM-Blue	High-Brightness Light 15CM-Blue	1
Components		

Please contact us immediately if there have any missing components.

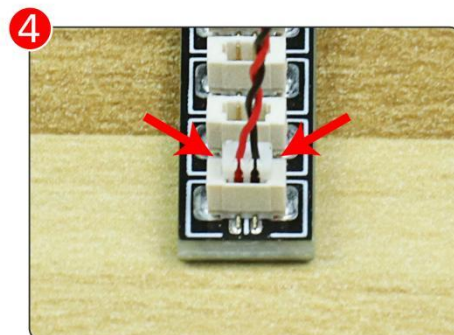
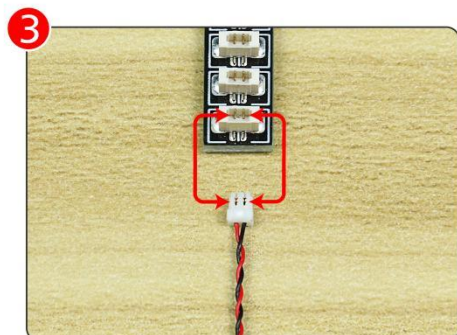
## Section B: Test that each components is working properly.

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



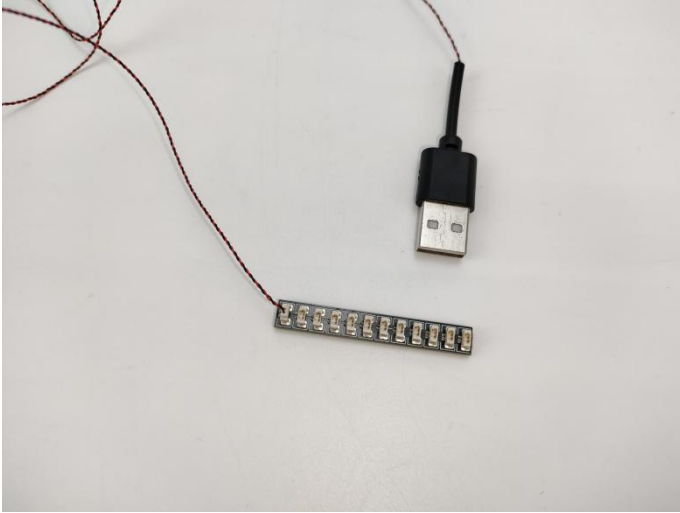
It is worth reminding that our products are all customized. They have a unique way of connecting. The white plug on wire and the socket of the expansion board need to be connected together to transmit power.

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.

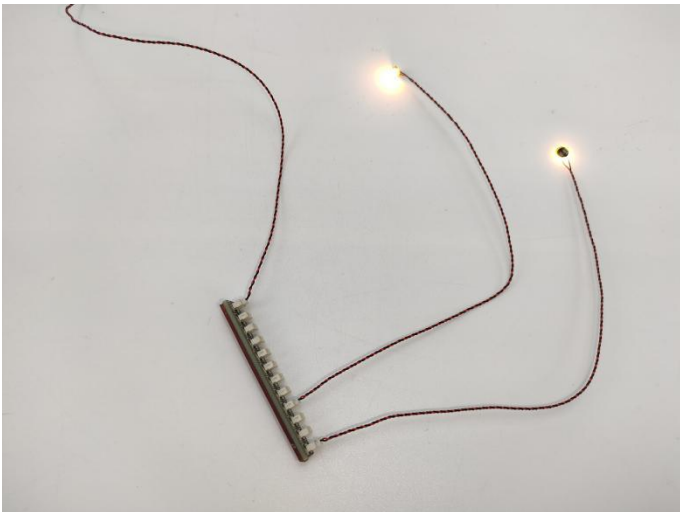
USB connectors to connect devices



**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 "A01001 Light-15CM Warm White" particles,Take out the bag labelled "A01001 Light-15CM Warm 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.**

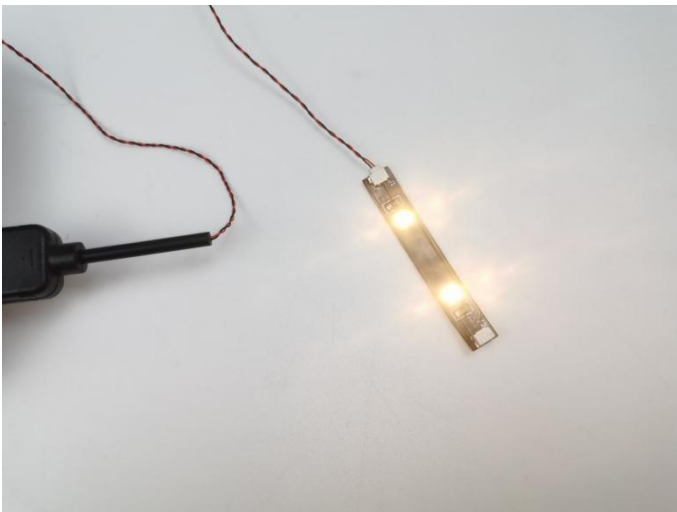


Test each lamp according to this method. It should be noted that after the test, the lamp must be returned to the corresponding bag to avoid confusion of types.



#### LED strip test:

Take out the bag labeled "A01105 LED Strip Warm White". Take out the LED light bar, connect the USB power cable, turn on the mobile power supply, the light will be on normally, as shown in the figure below.



The components needs to be tested in this set is 1\* Light-15CM Warm White,3\* Light-15CM White,1\*Slow Flash-30CM Multi-Colour,5\*High-Brightness Light 30CM-Warm White,5\*High-Brightness light 15CM-Warm White,1\*LED Strip Green,1\*LED Strip Blue,7\*LED Strip Warm White,1\*High-Brightness Light 15CM-Red,1\*High-Brightness Light 15CM-Green,1\*High-Brightness Light 30CM-Green,1\*High-Brightness Light 15CM-Blue. Please contact us immediately if any components don't work.

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

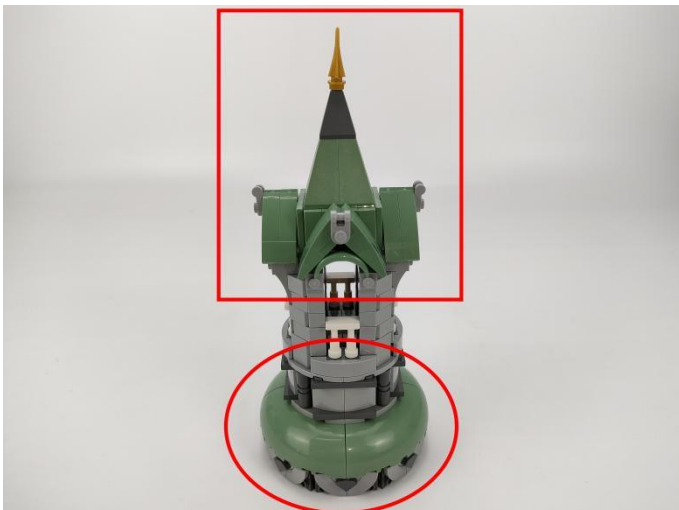
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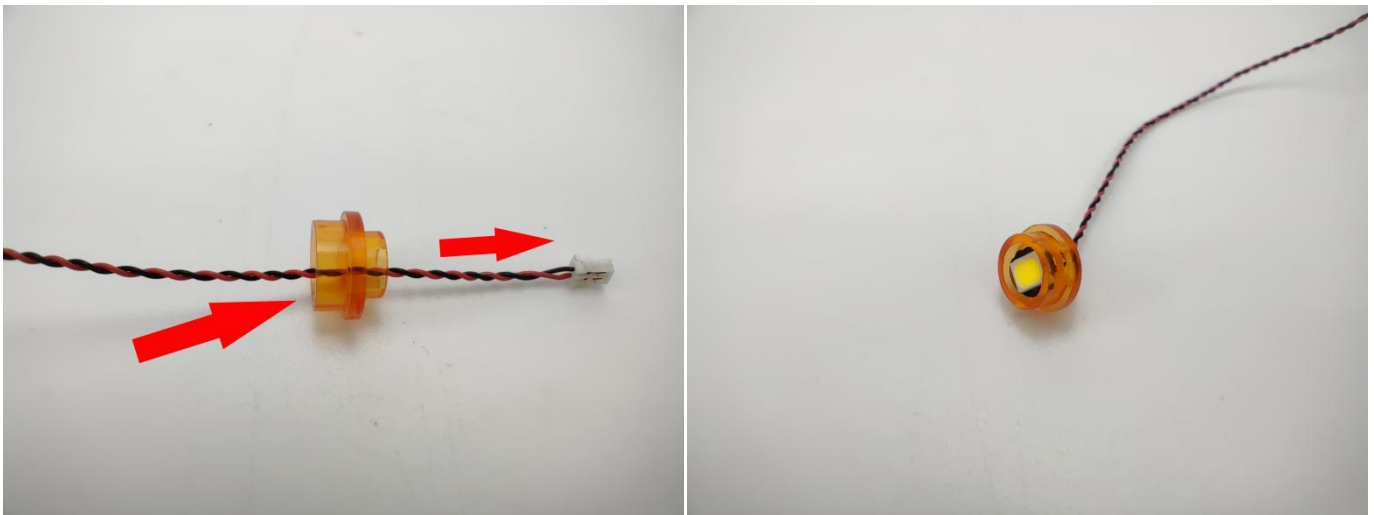




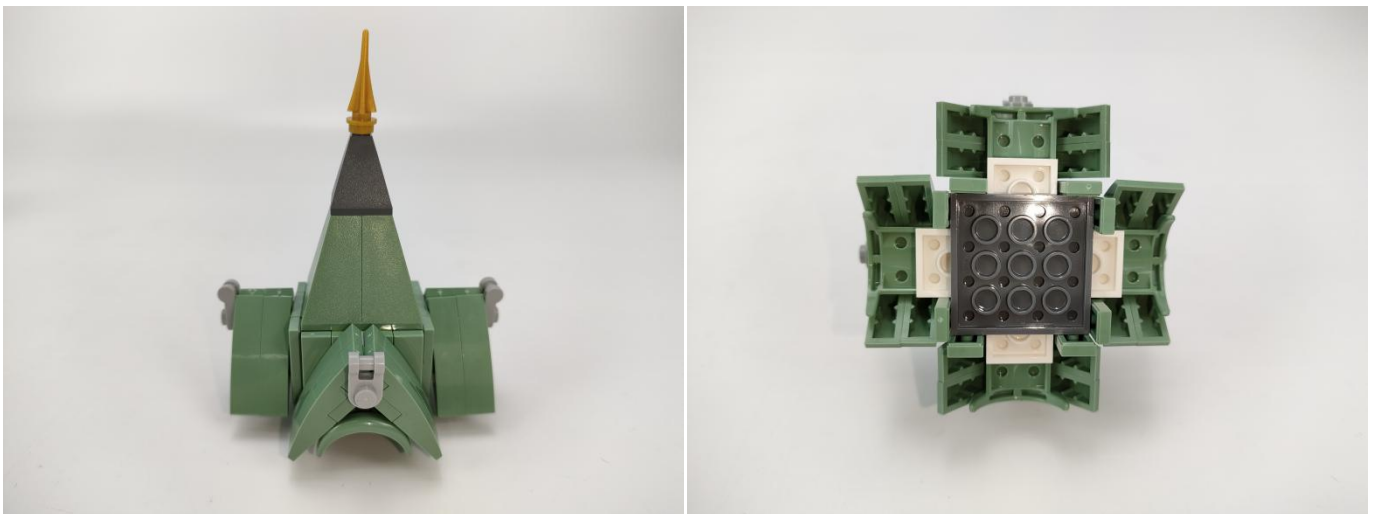
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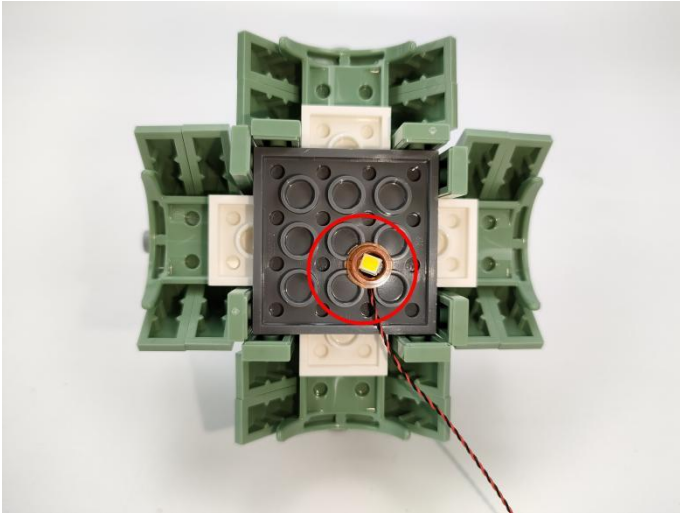
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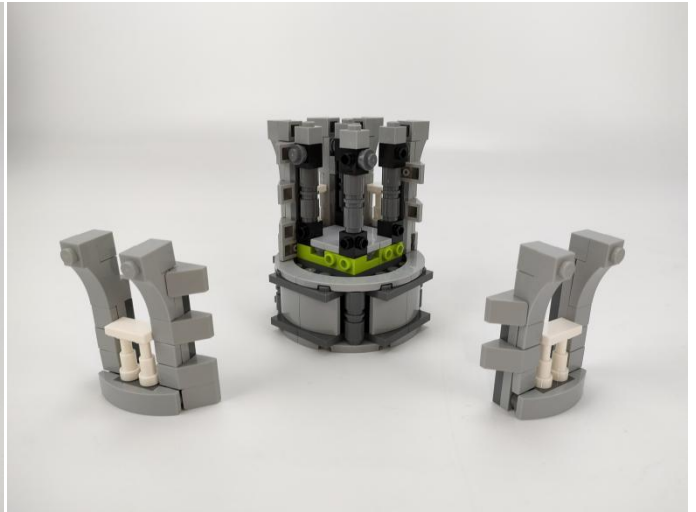
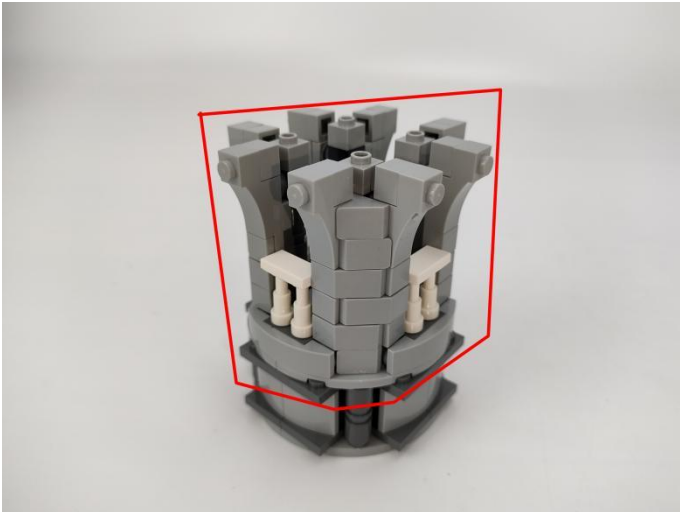
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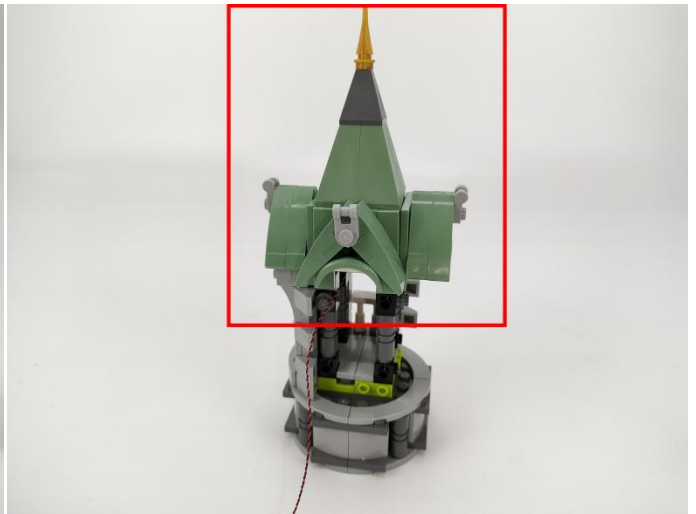
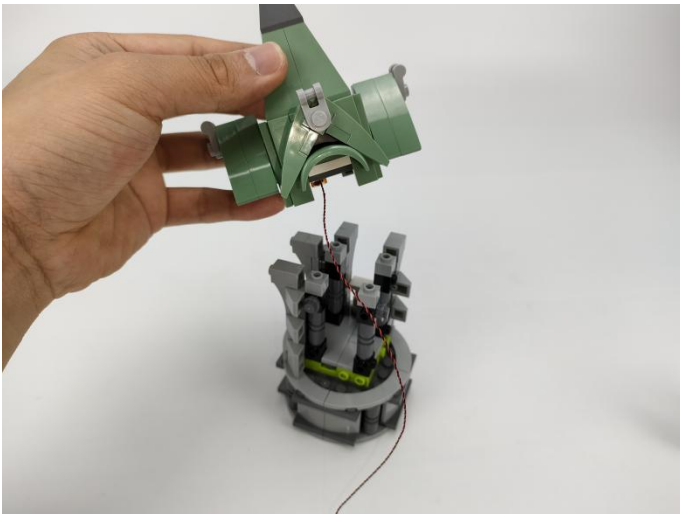
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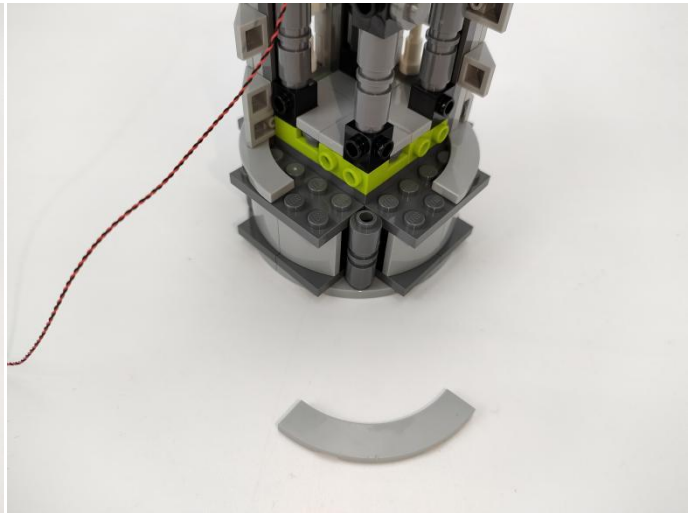
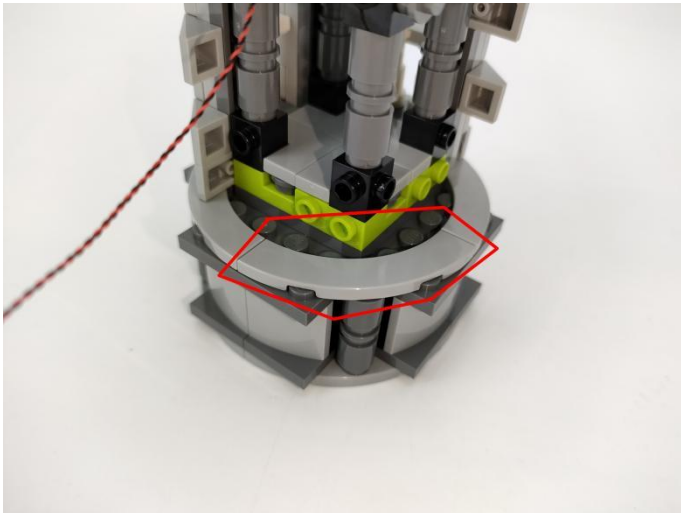
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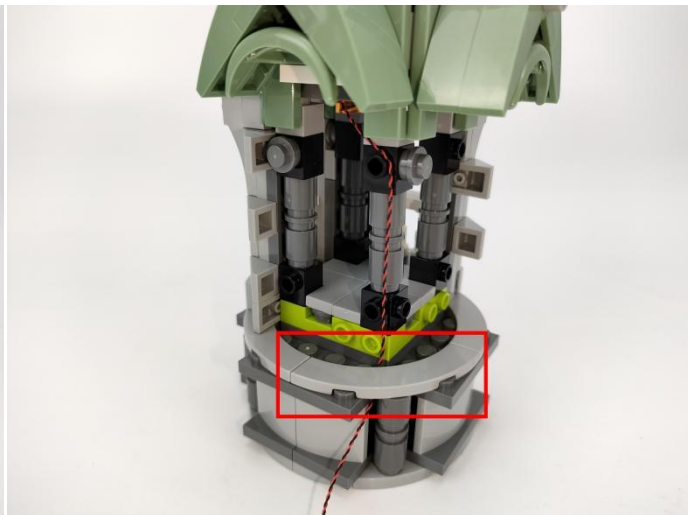
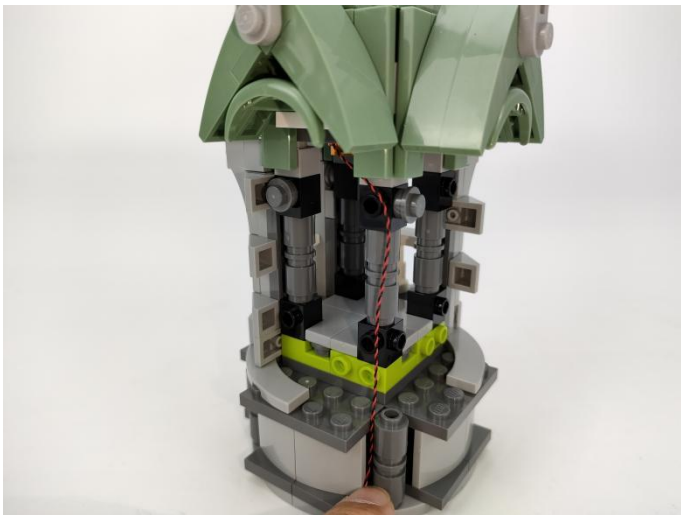
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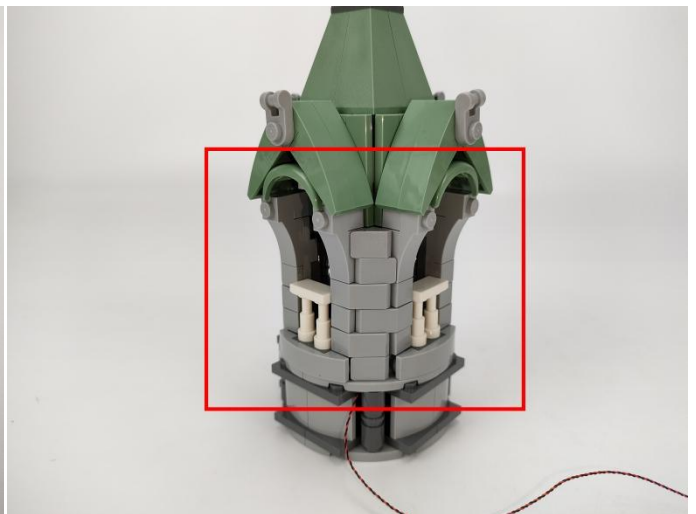
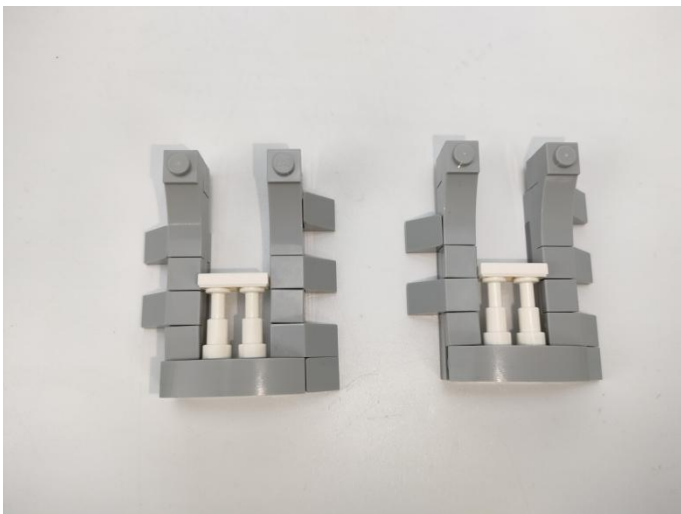
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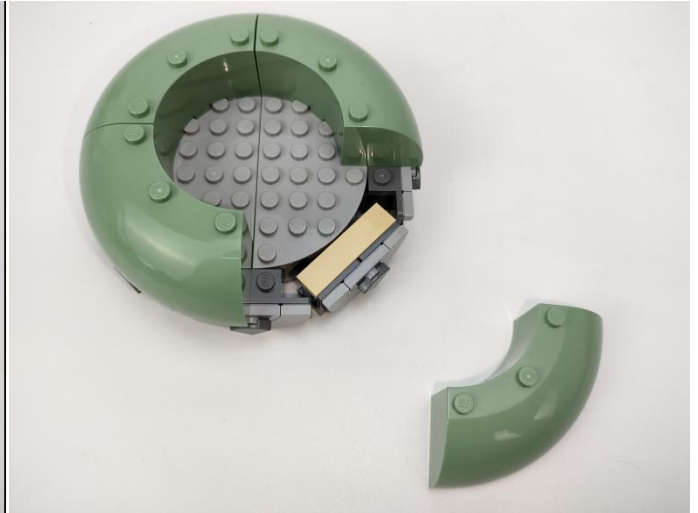
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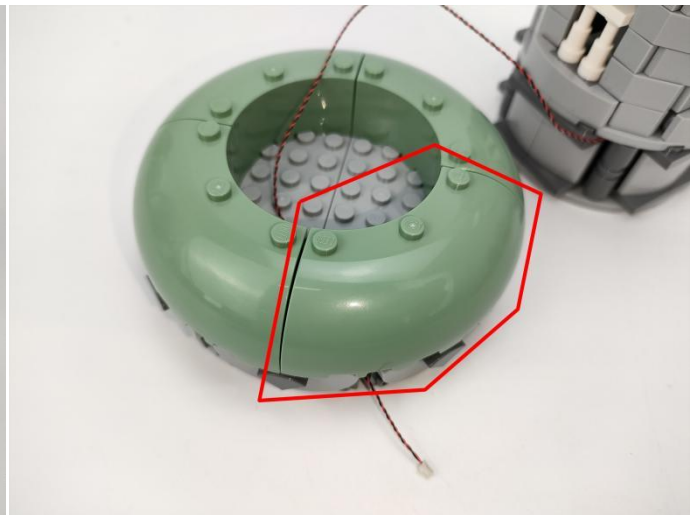
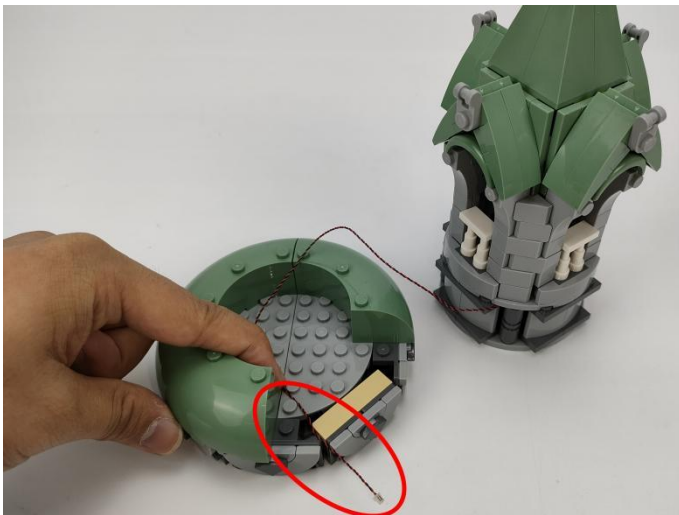
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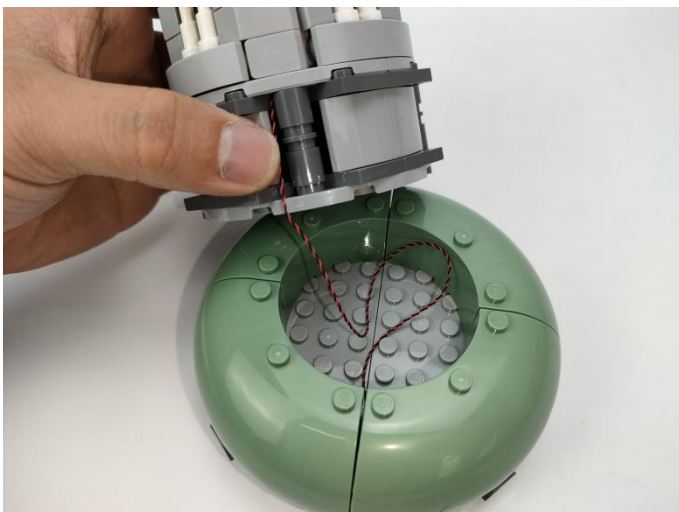
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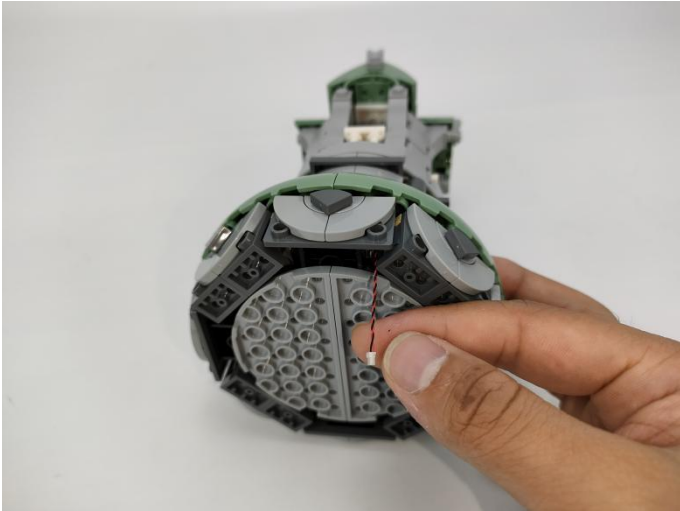
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**15.** Hide the light wires inside the building block parts, and then restore the building block parts.



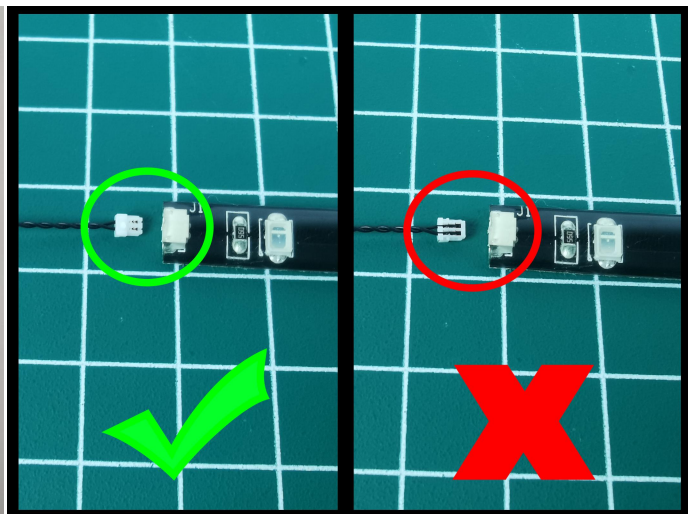
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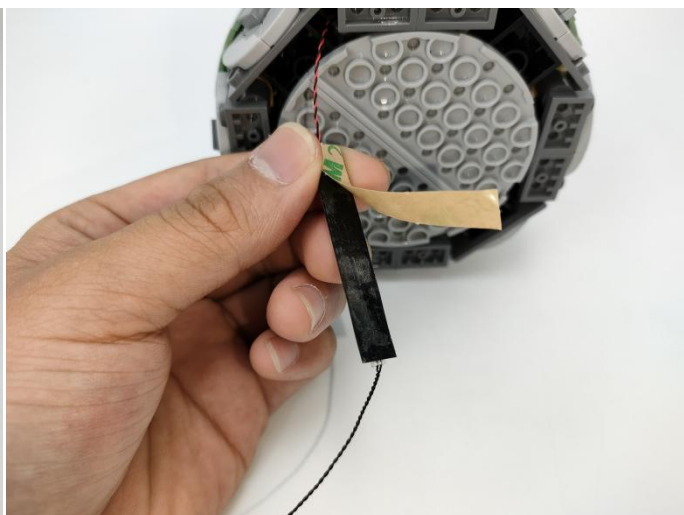
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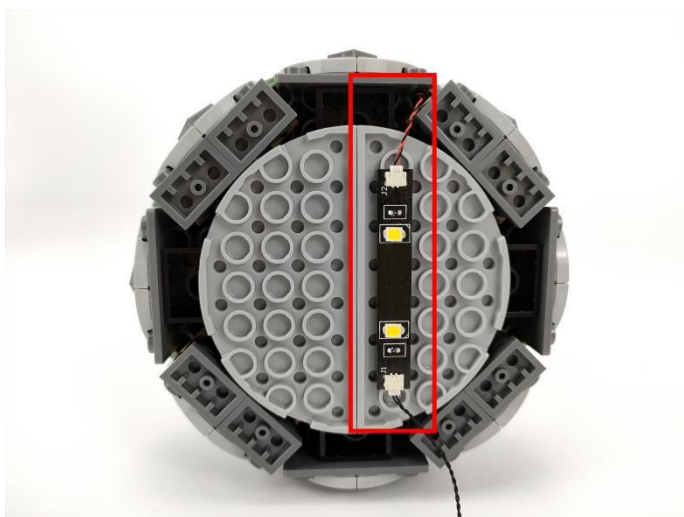
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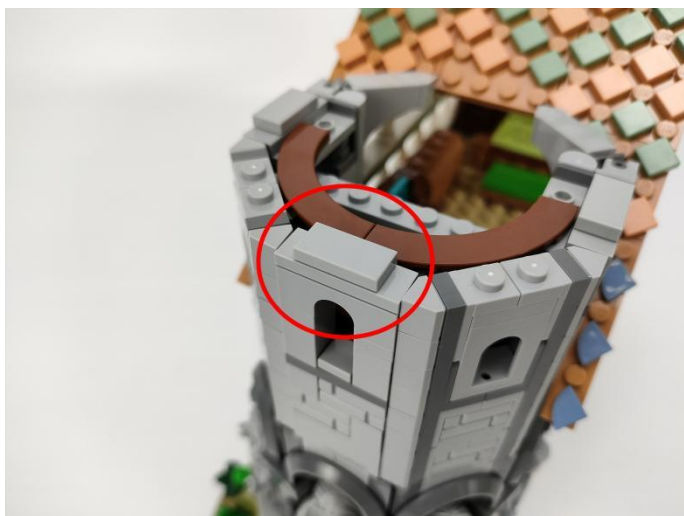
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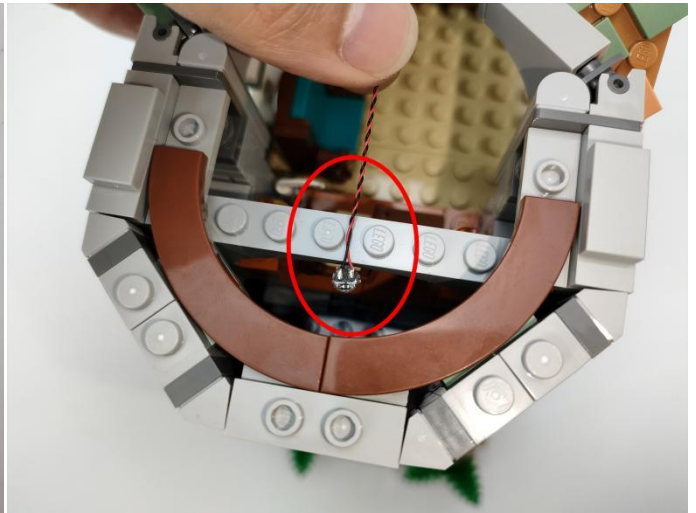
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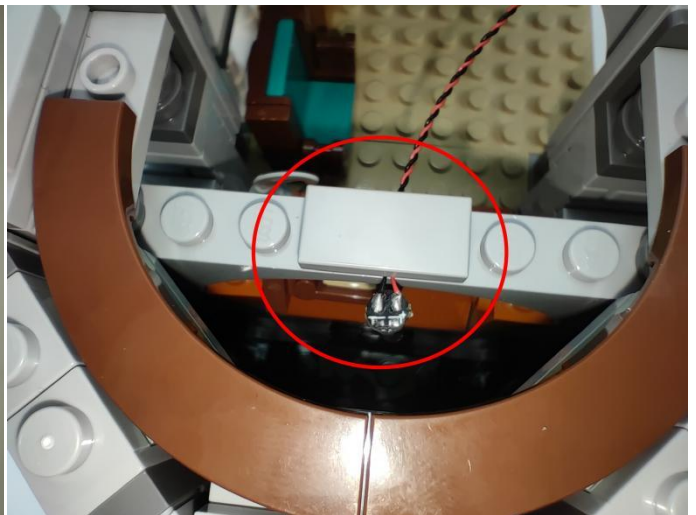
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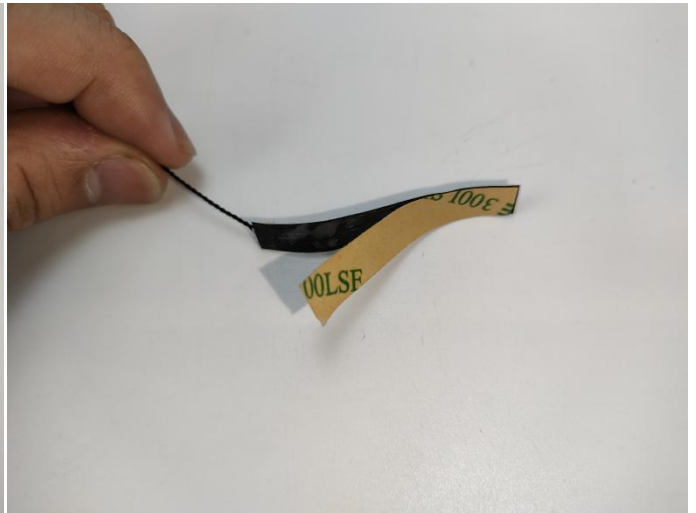
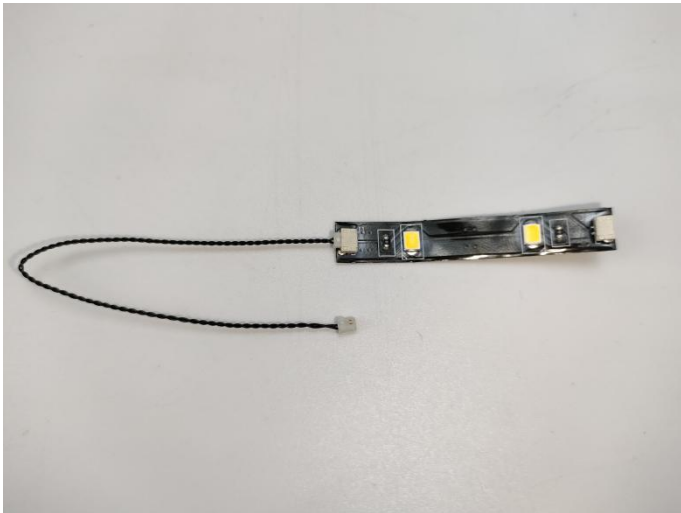
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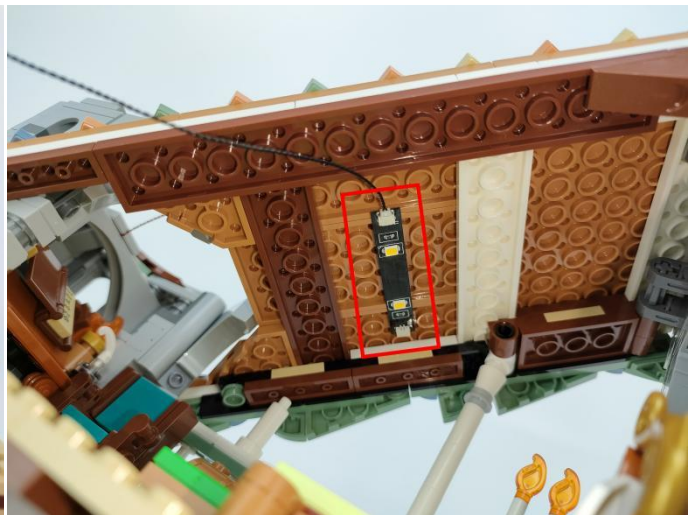
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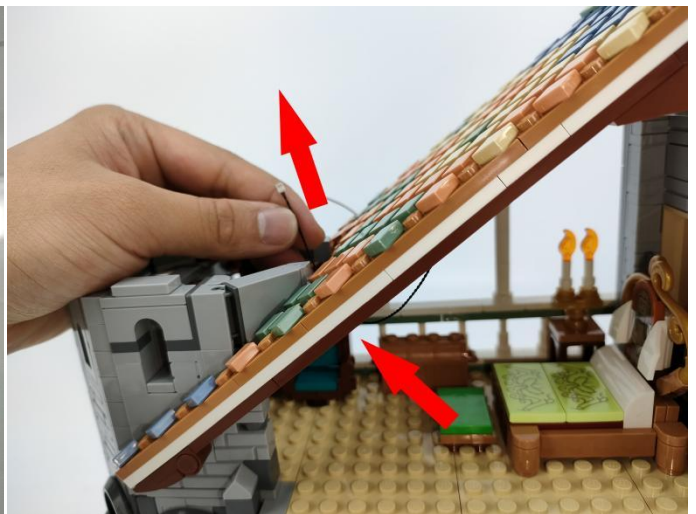
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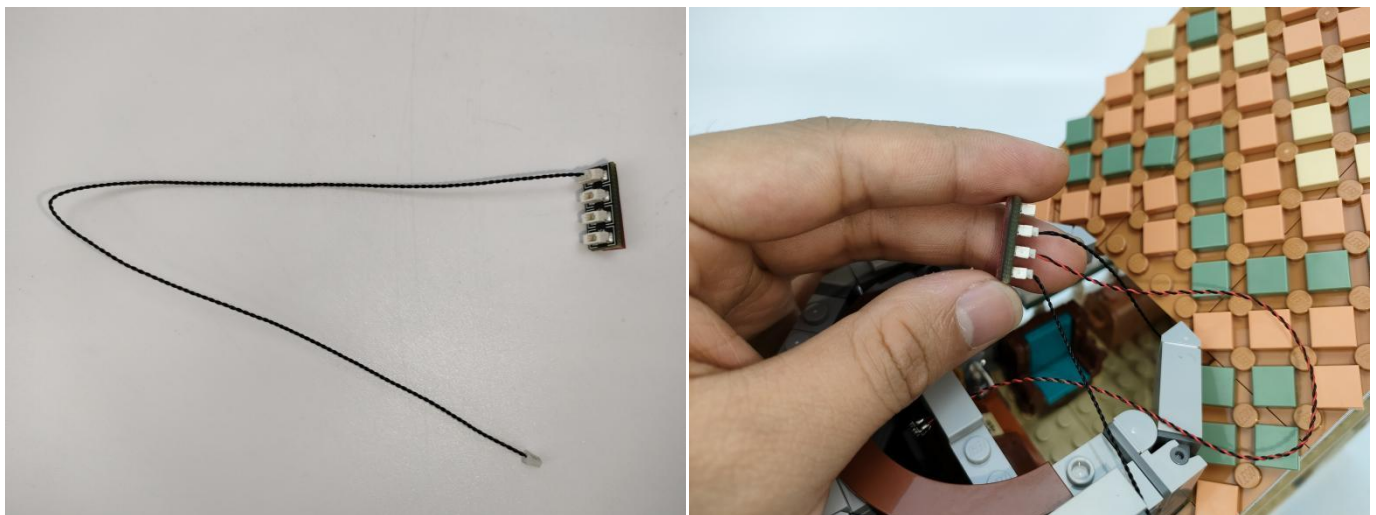




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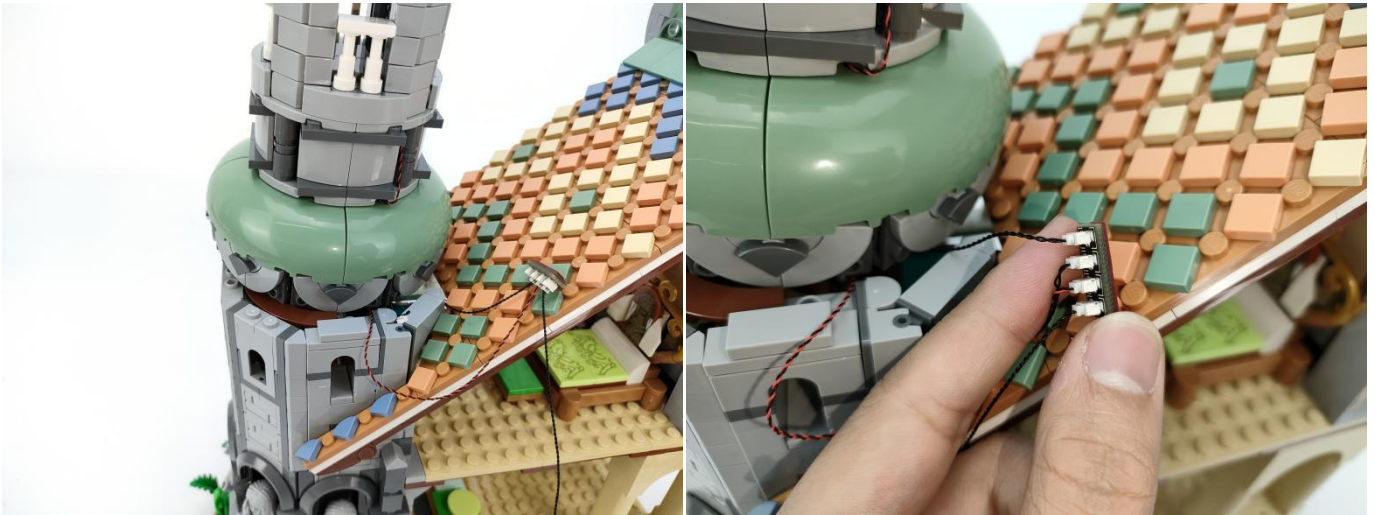
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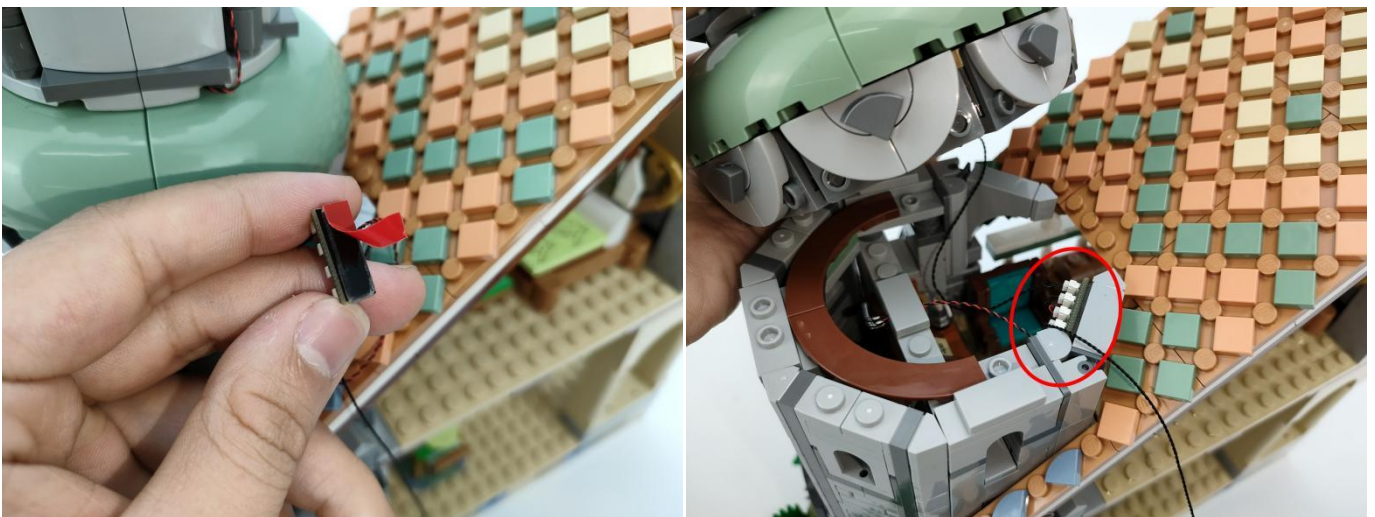
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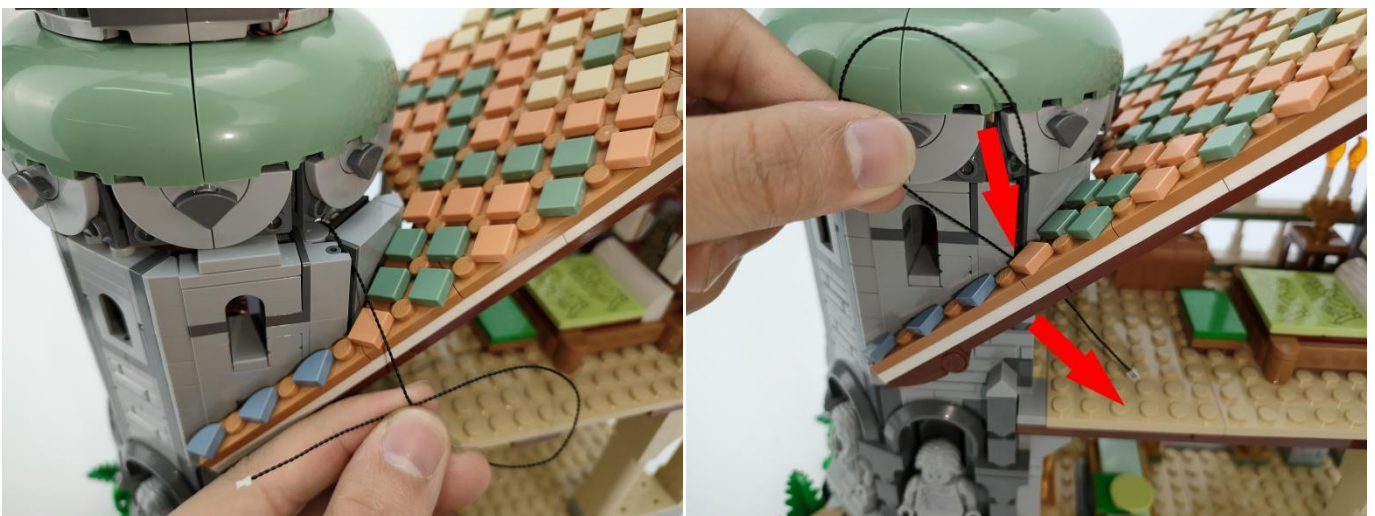
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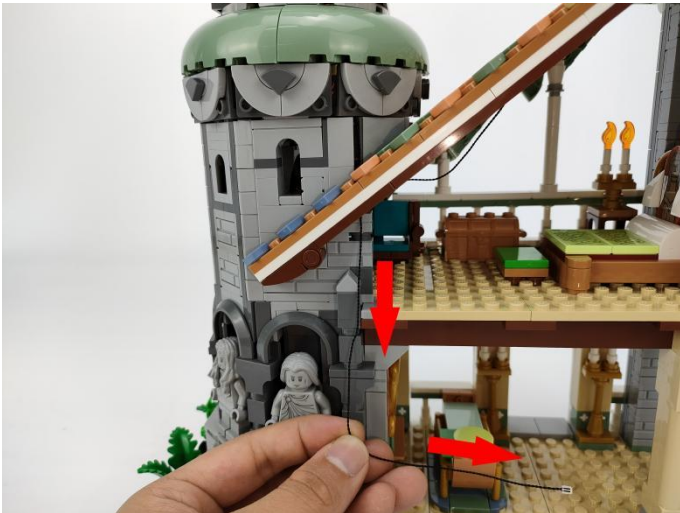
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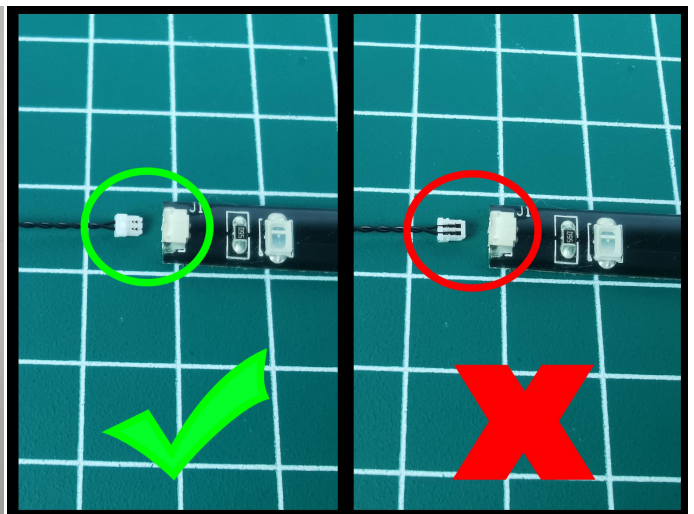
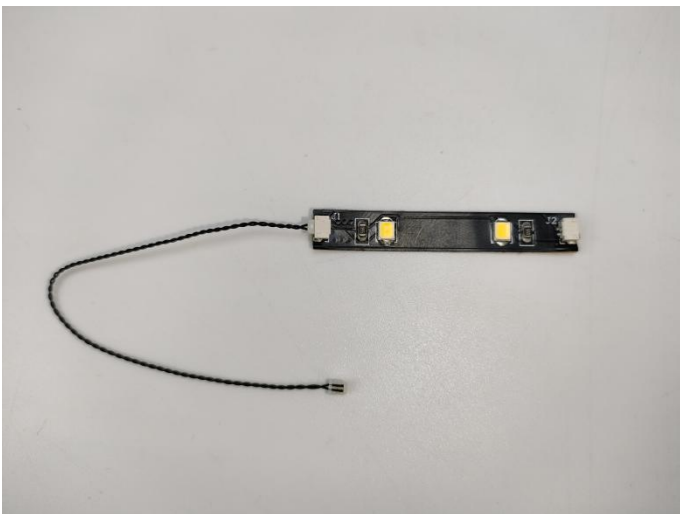
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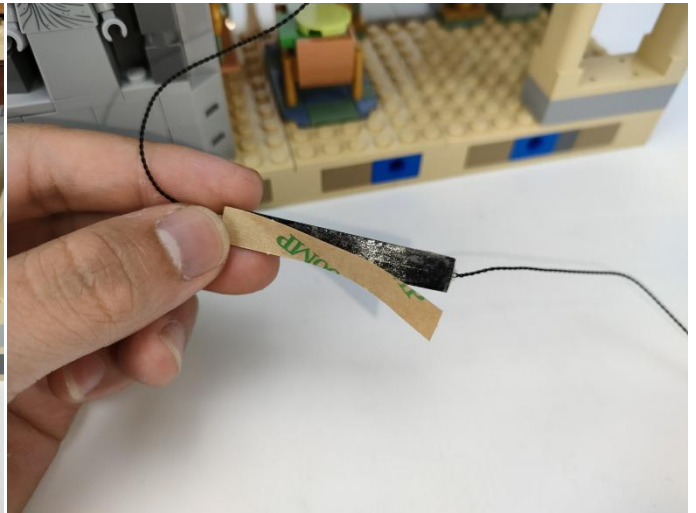
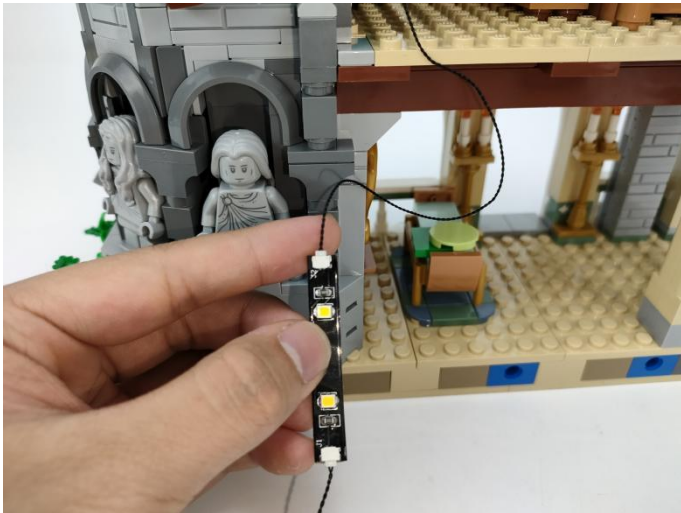
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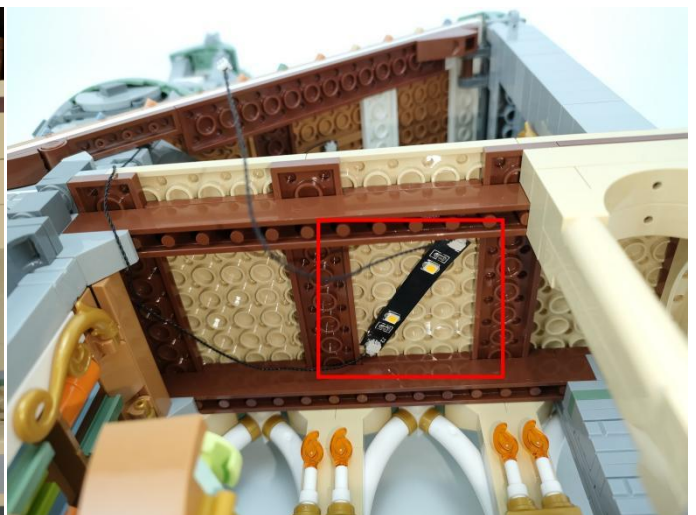
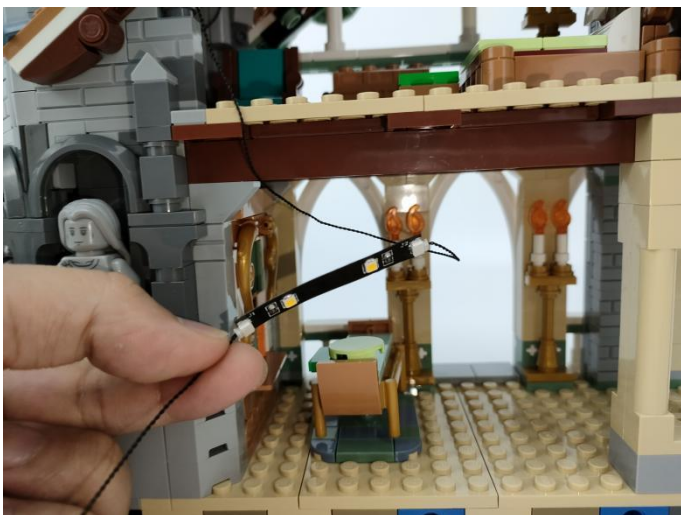
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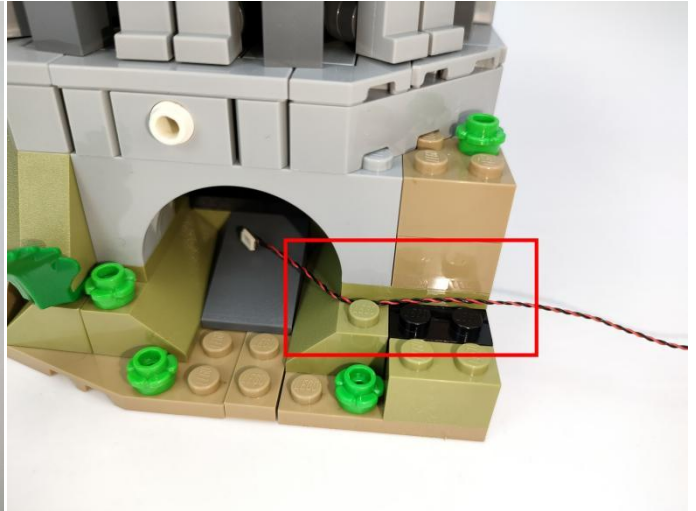
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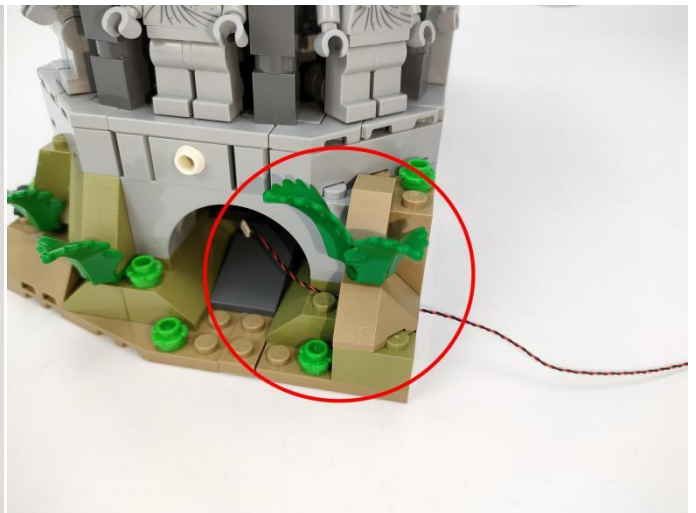
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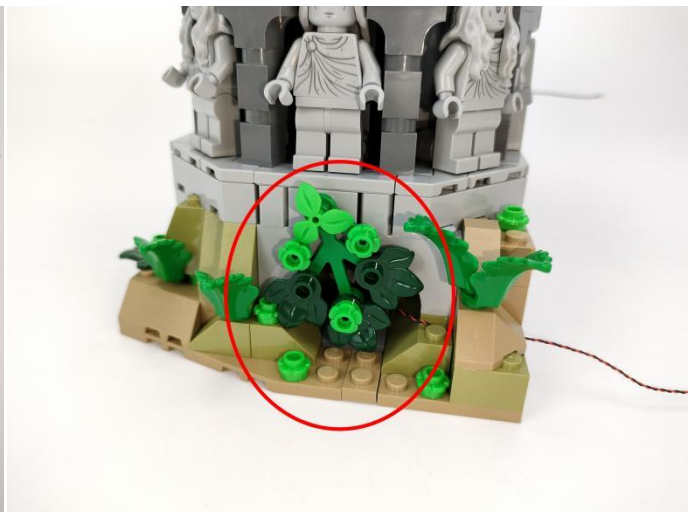
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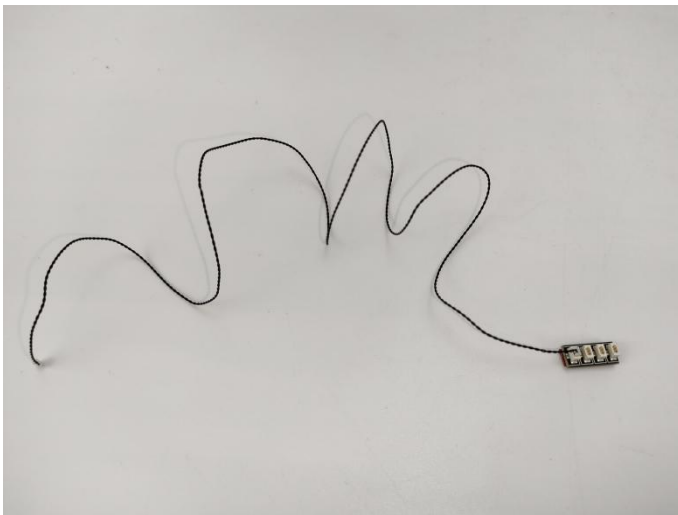
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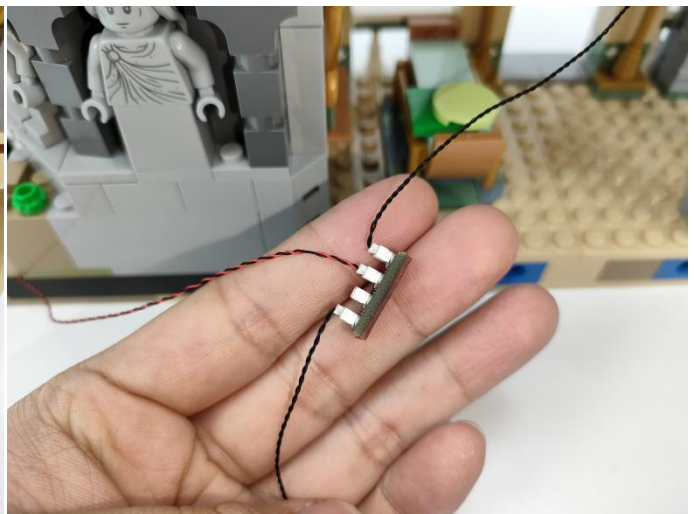
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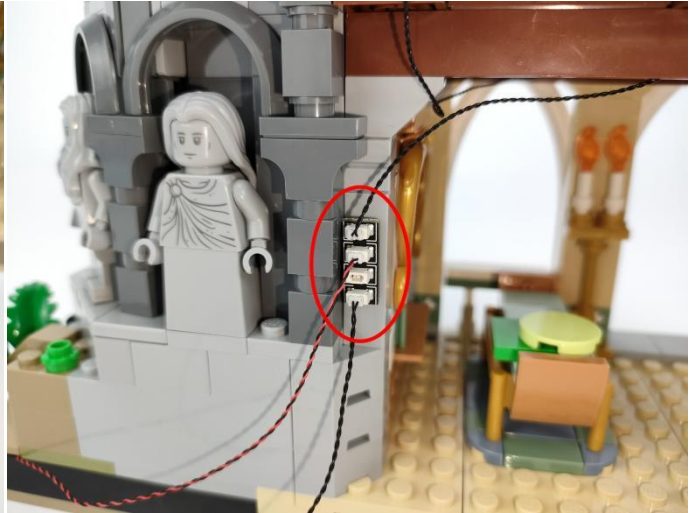
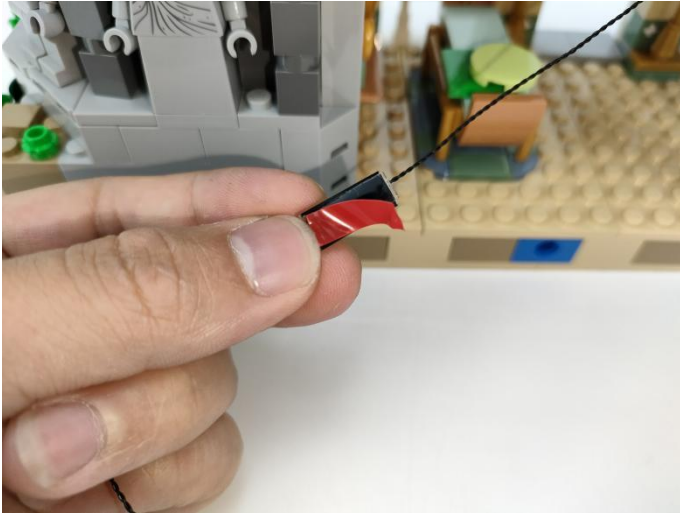
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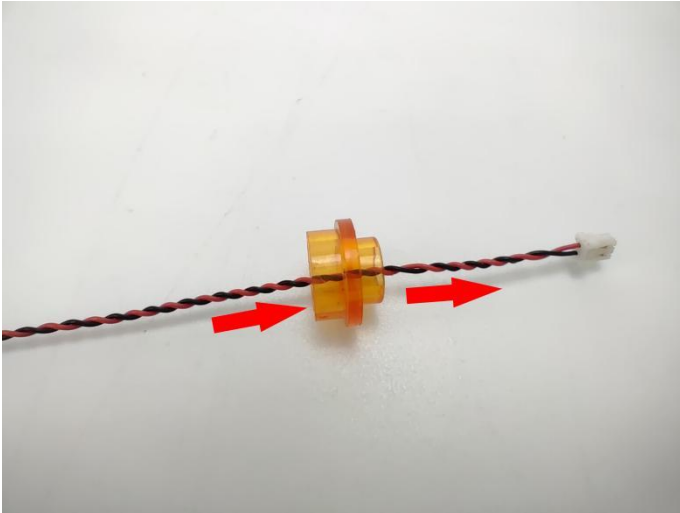
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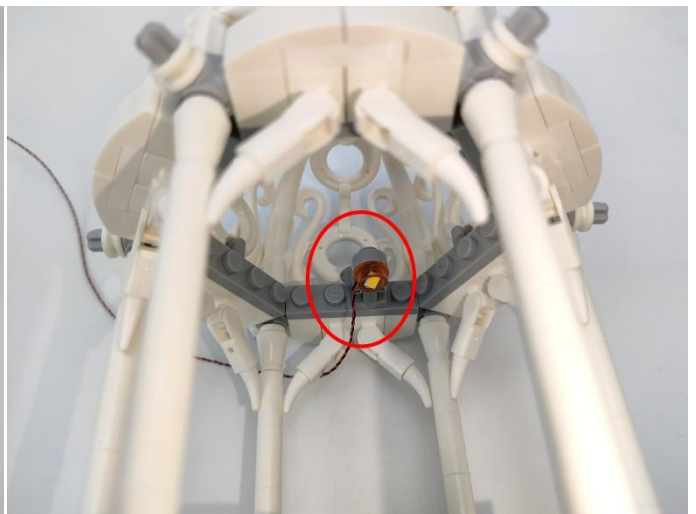
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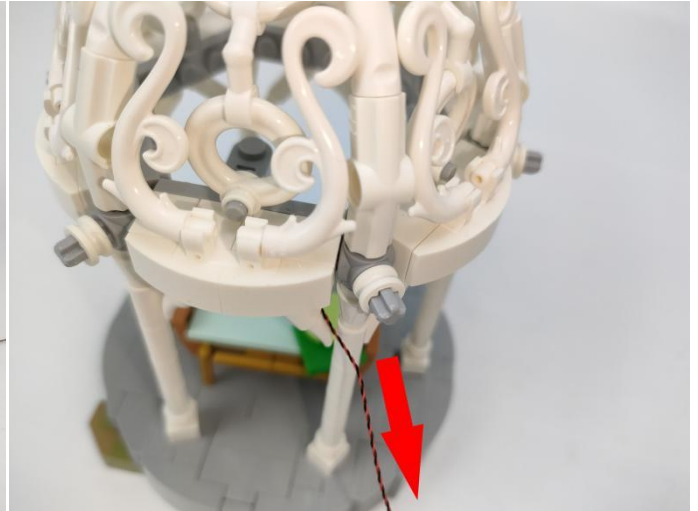
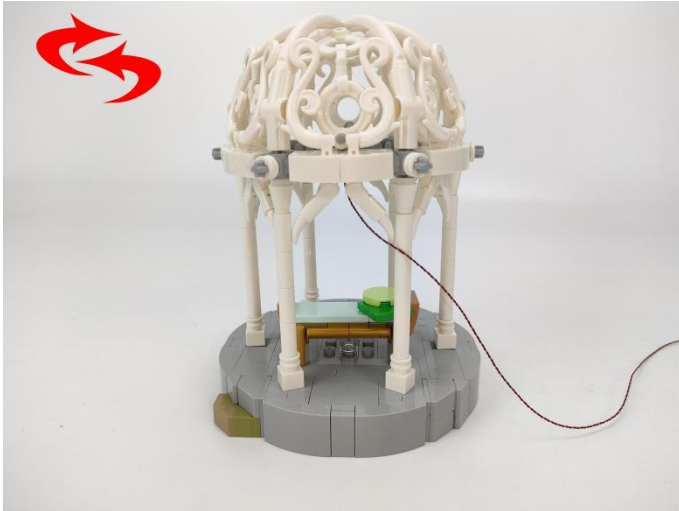


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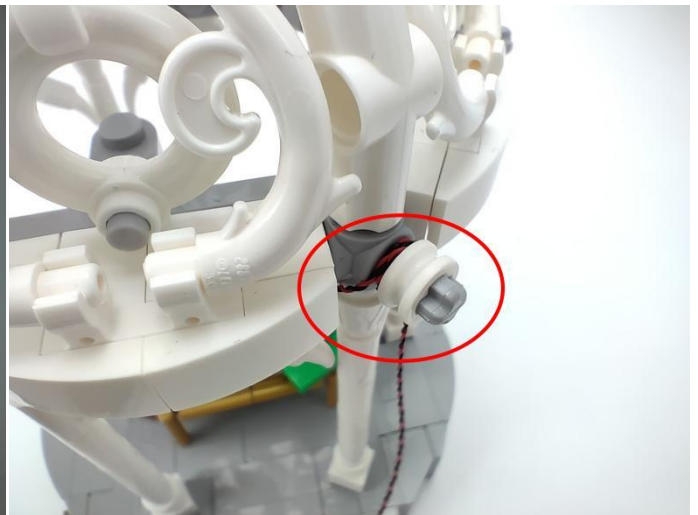
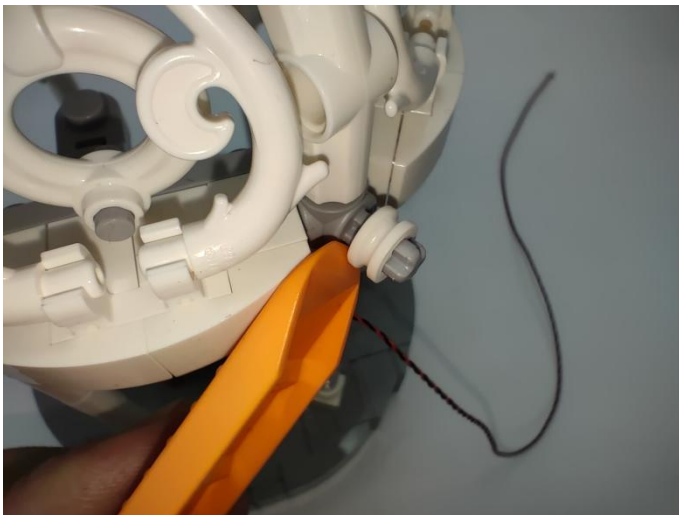




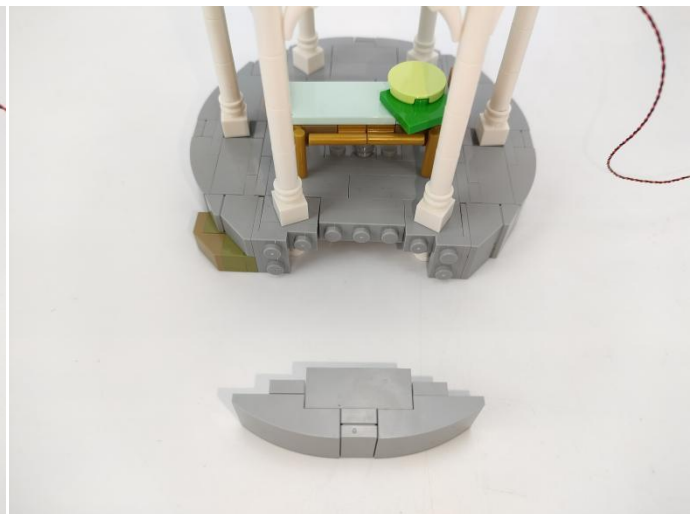
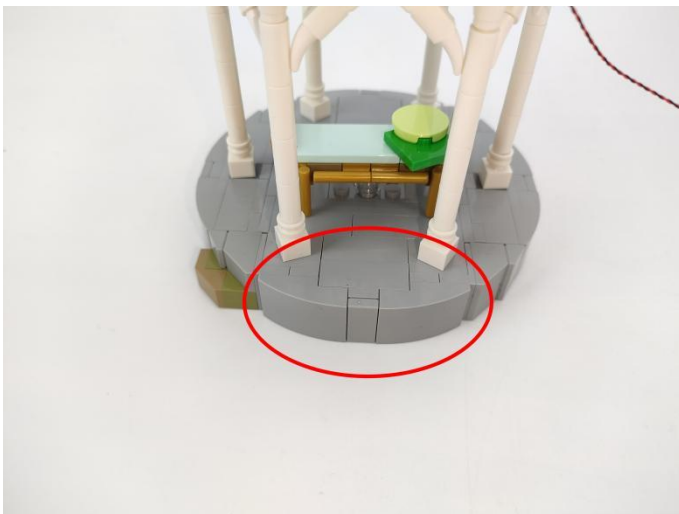
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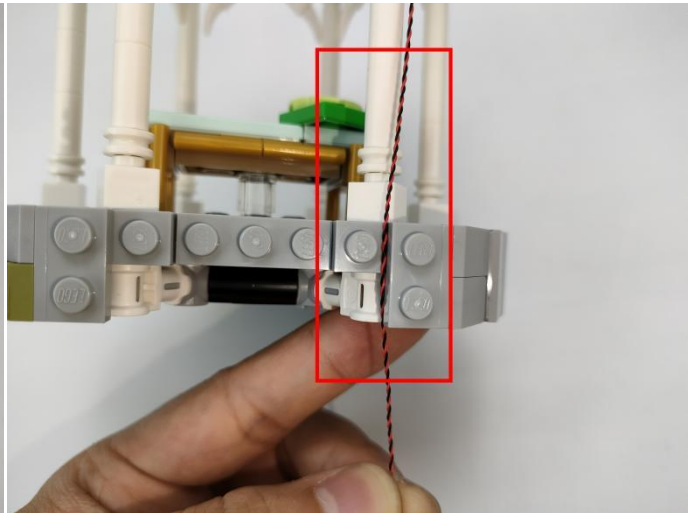
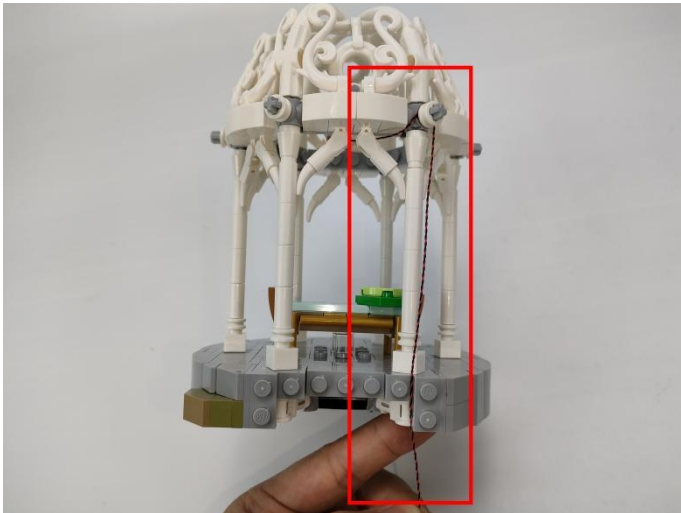
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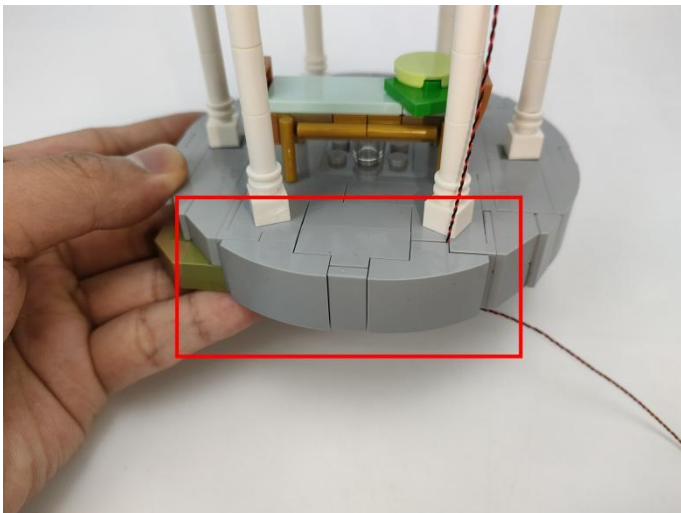
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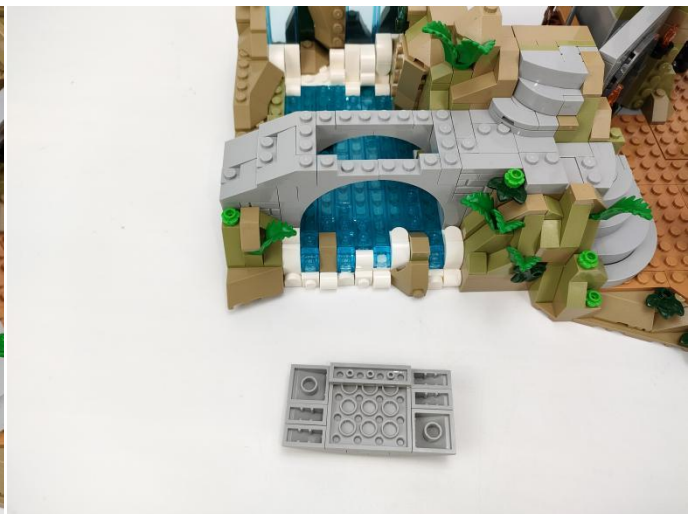
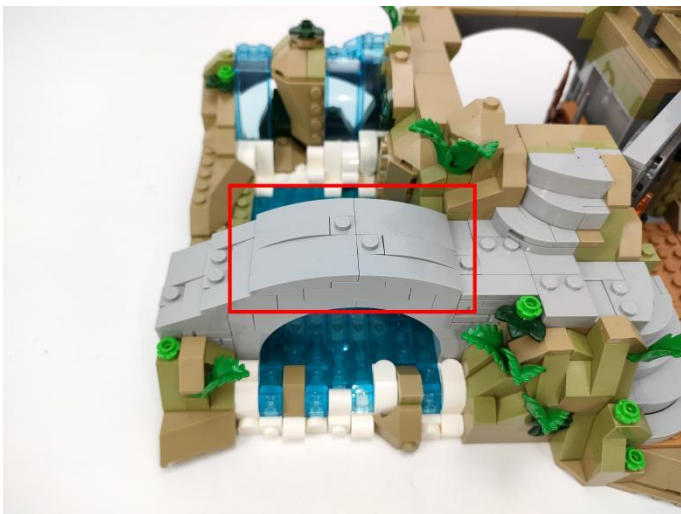
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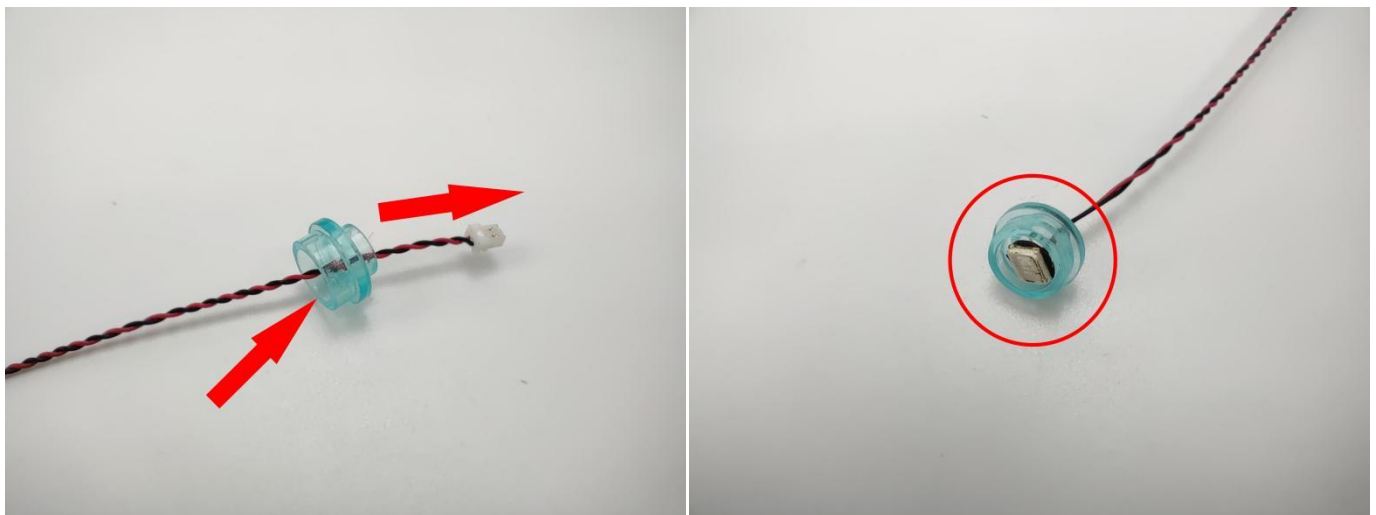
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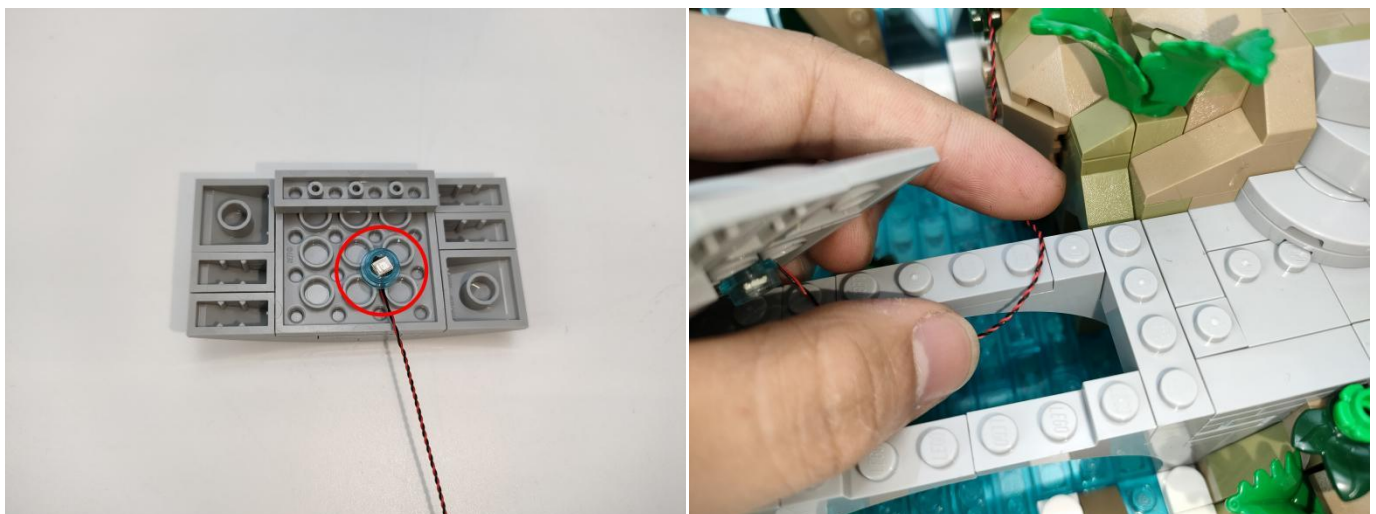
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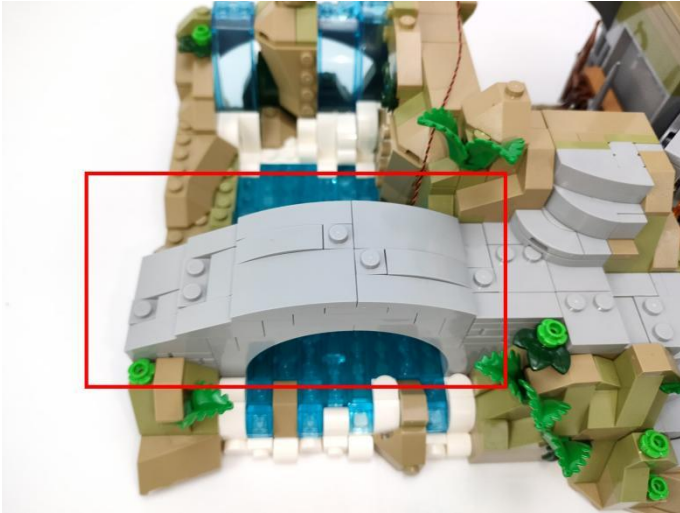
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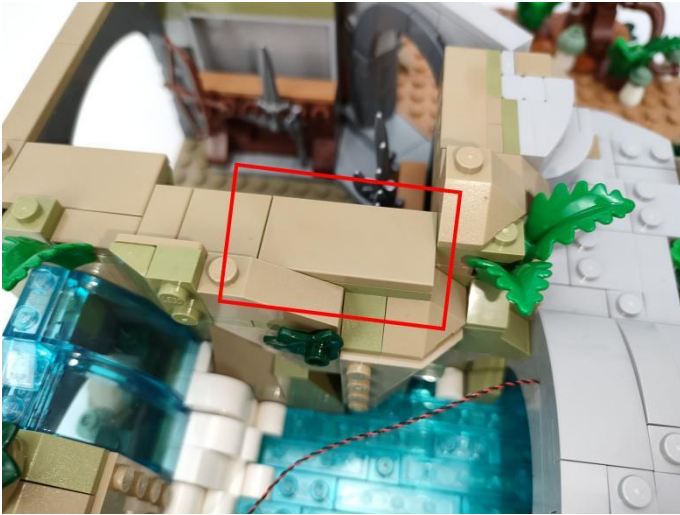
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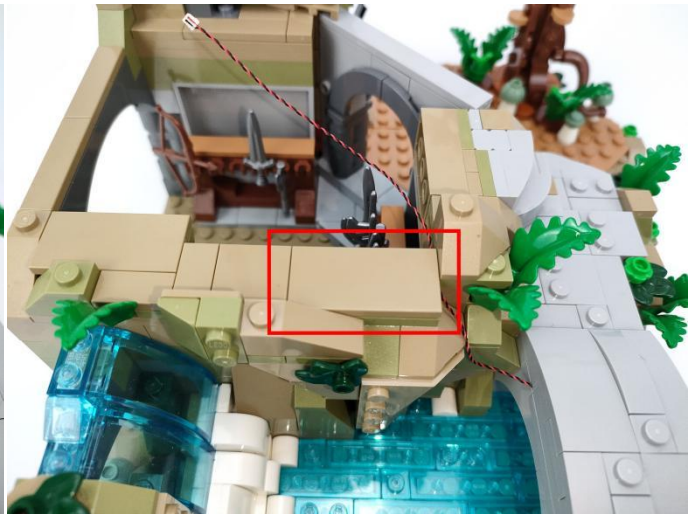
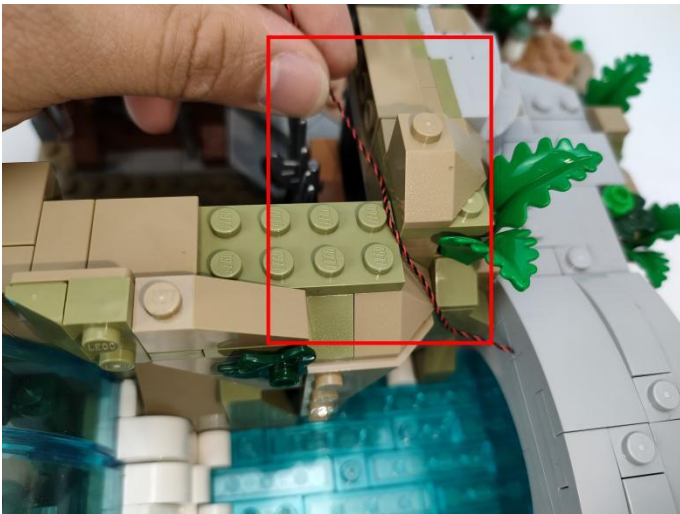
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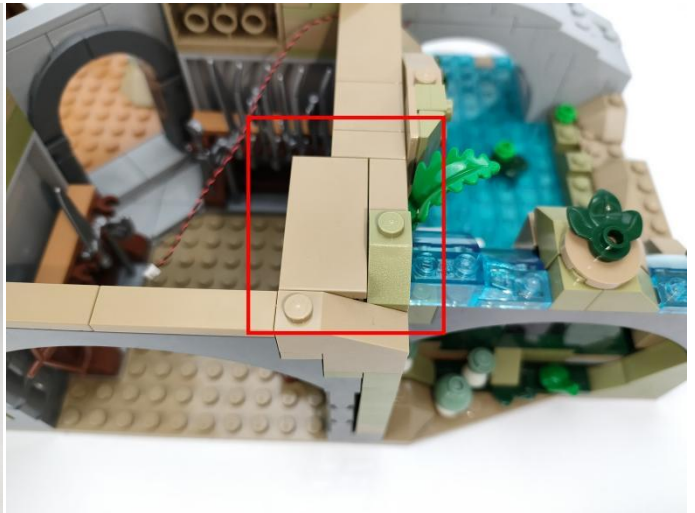
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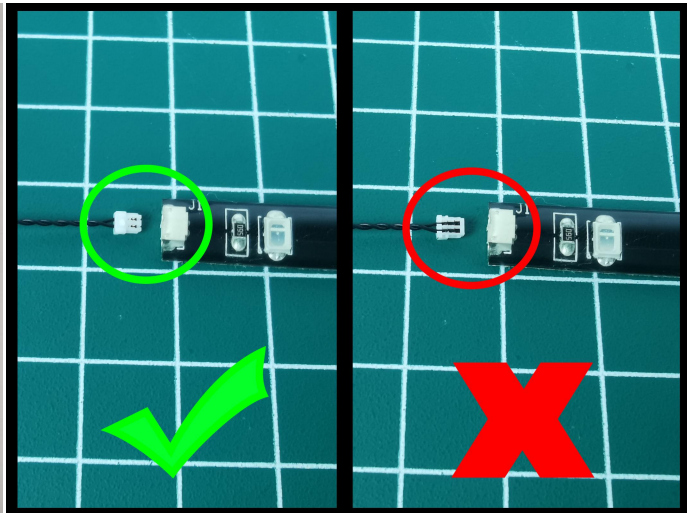
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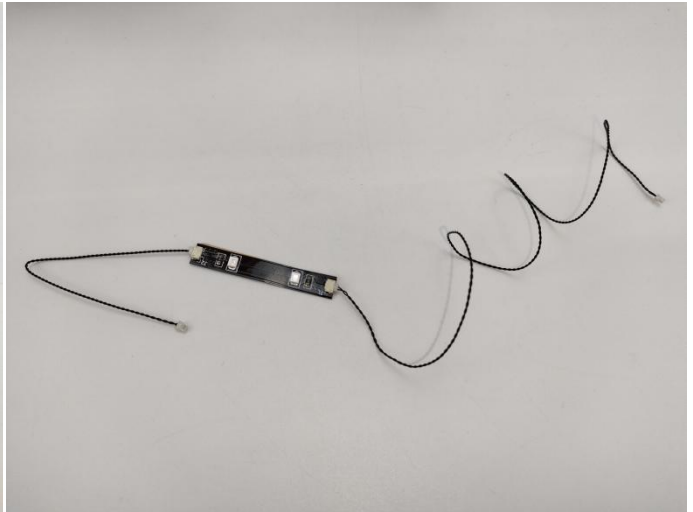
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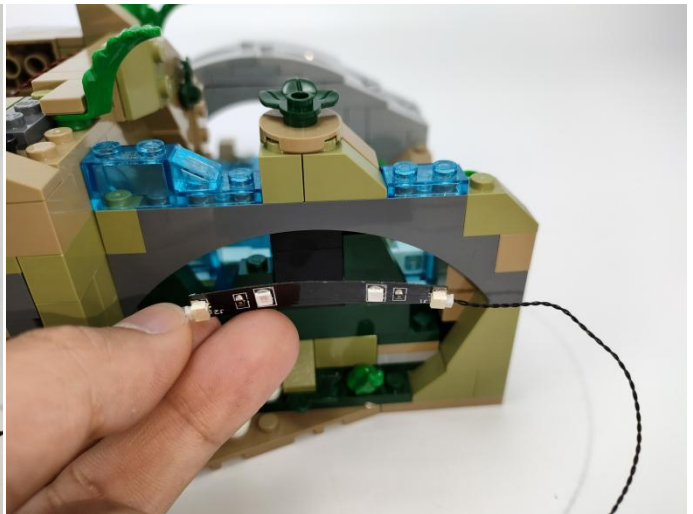
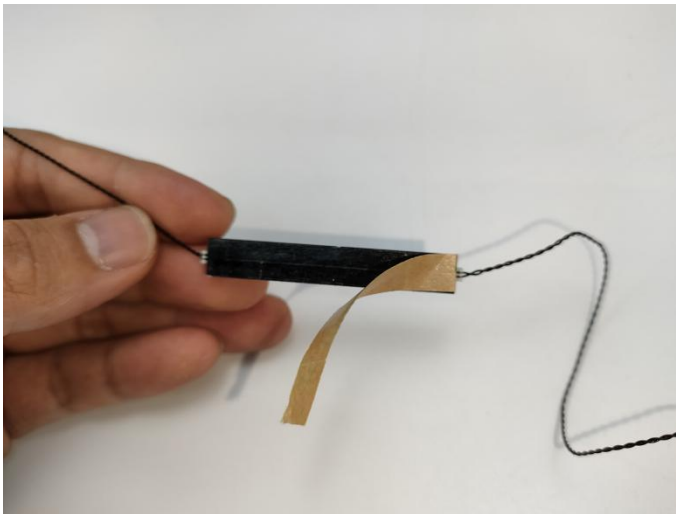
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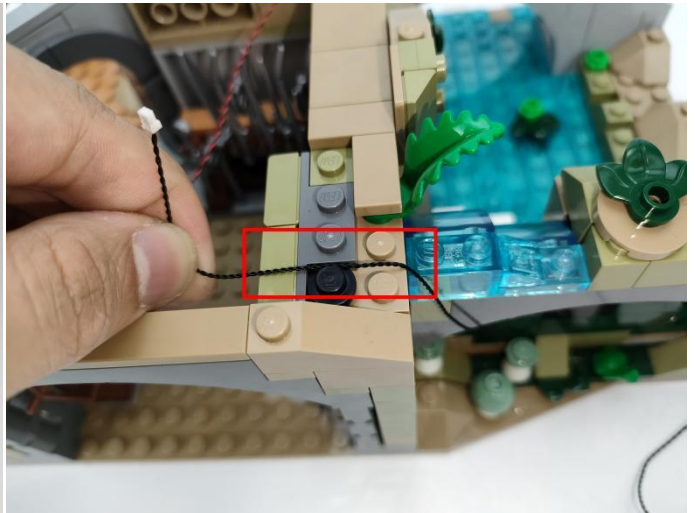
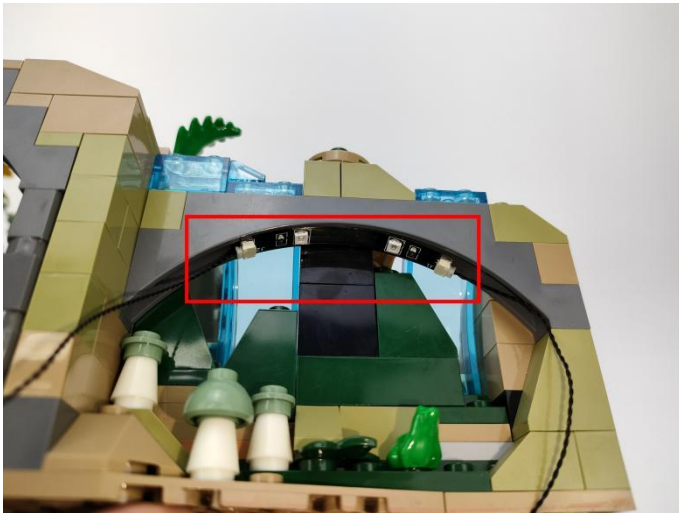
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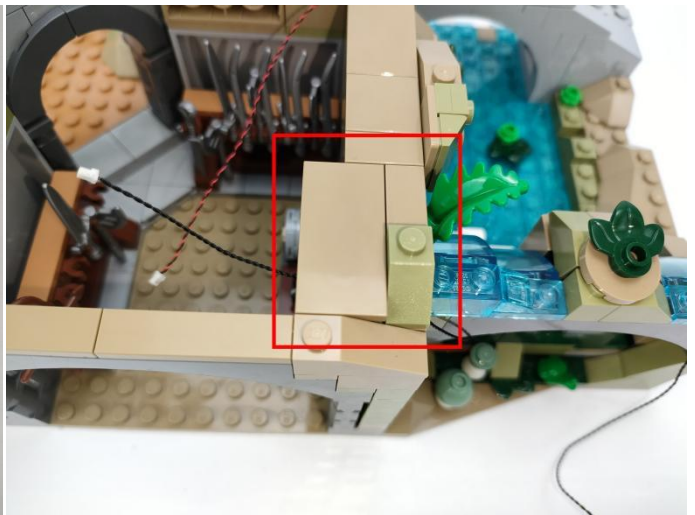
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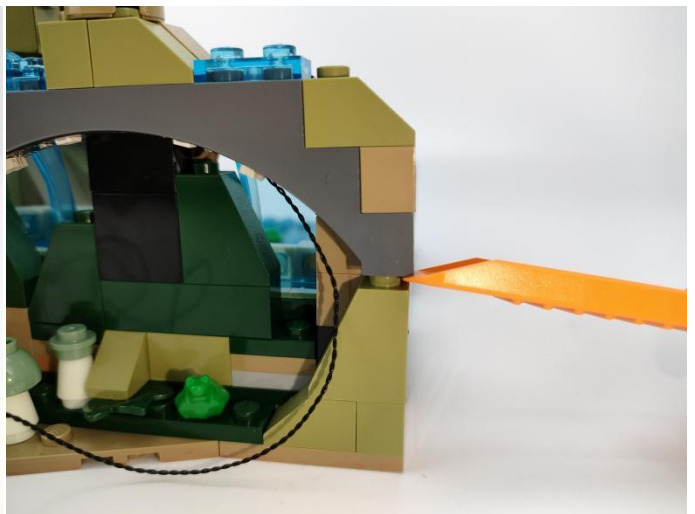
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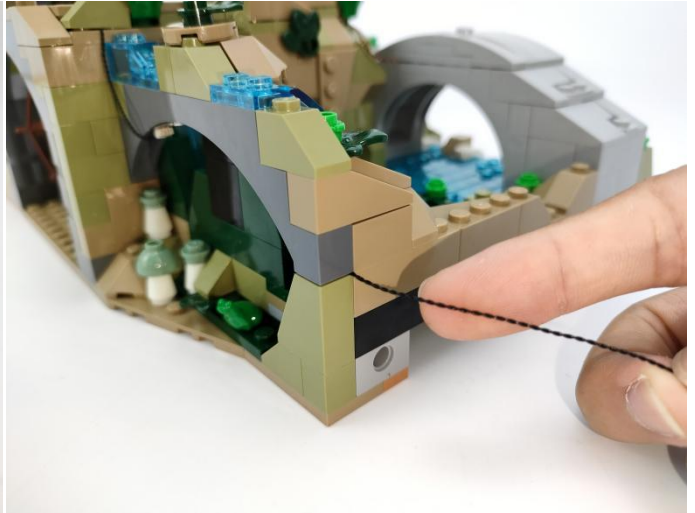
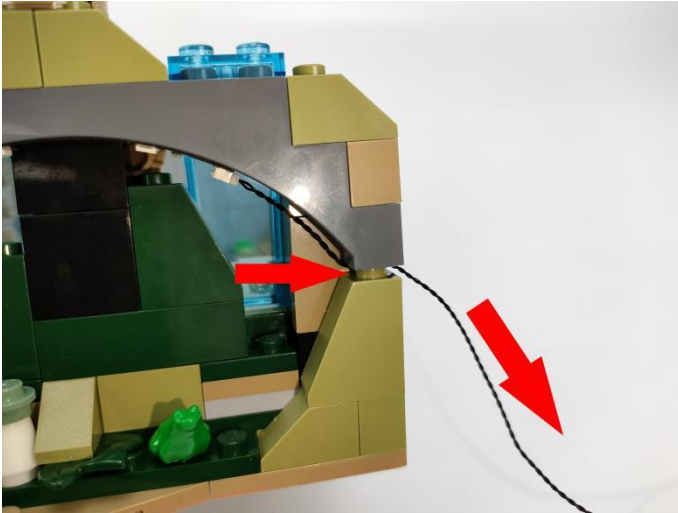
71



72



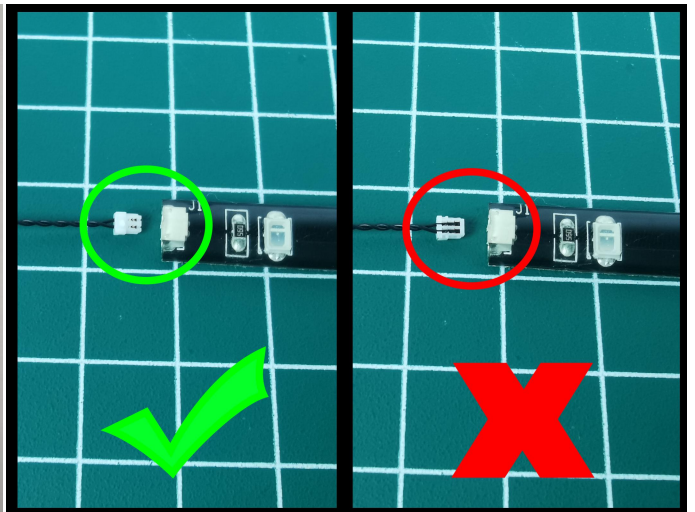
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74

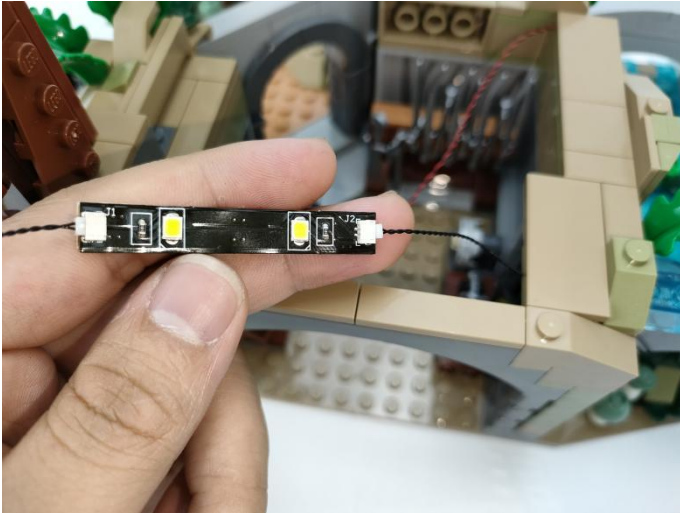


75





76



77



78



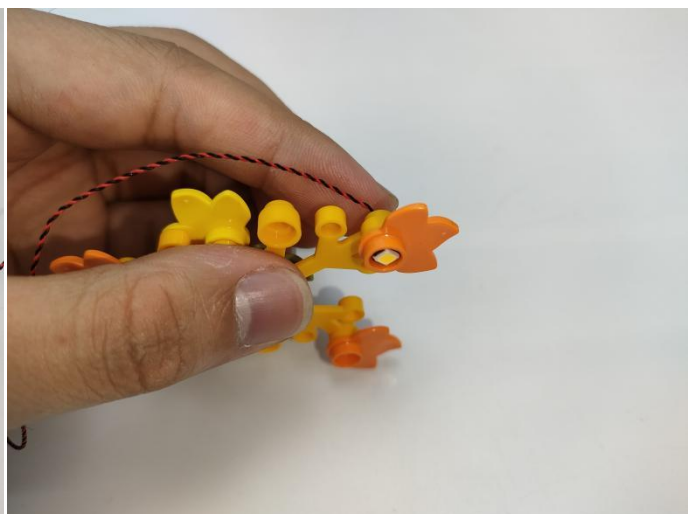
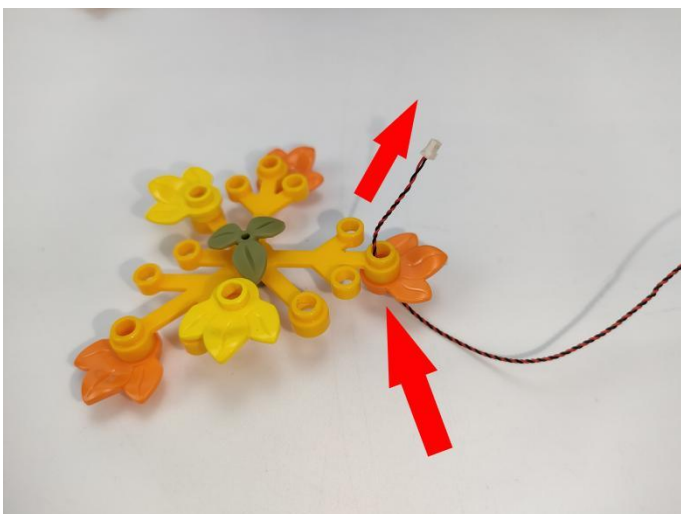
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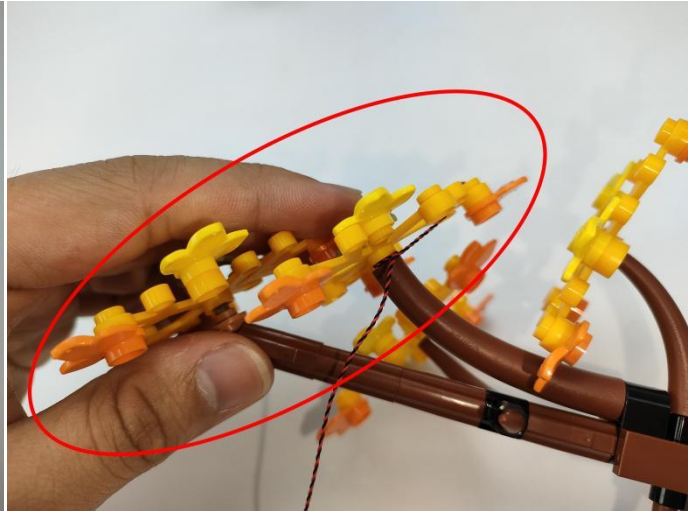
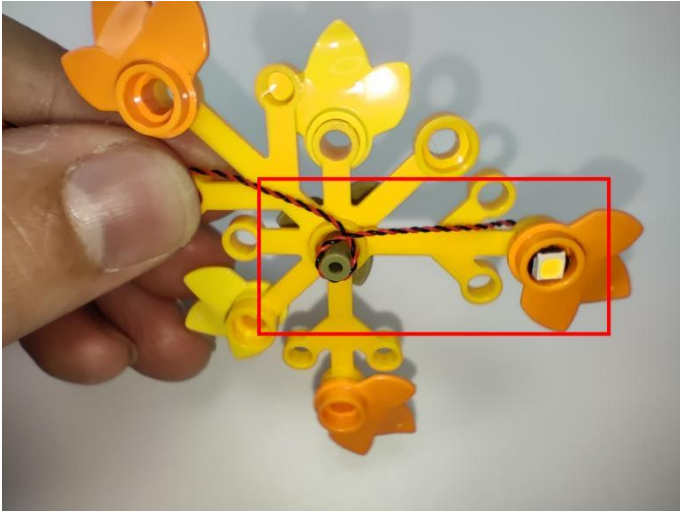
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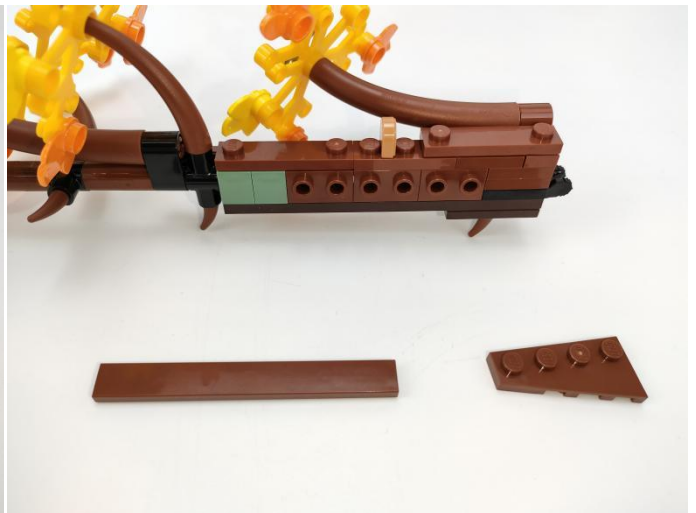
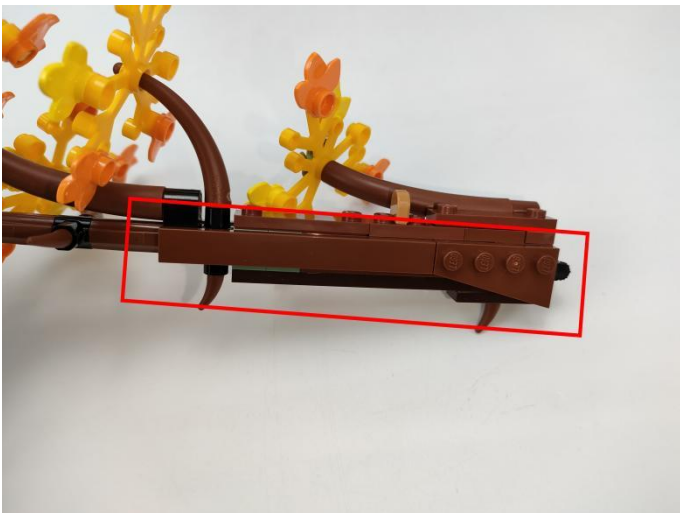
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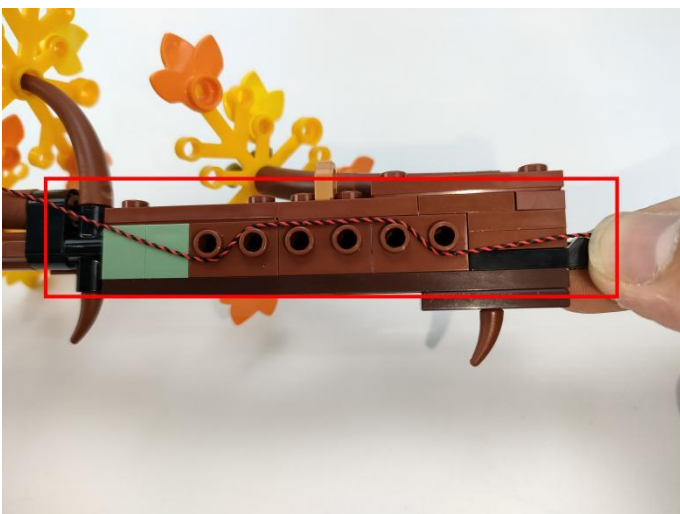
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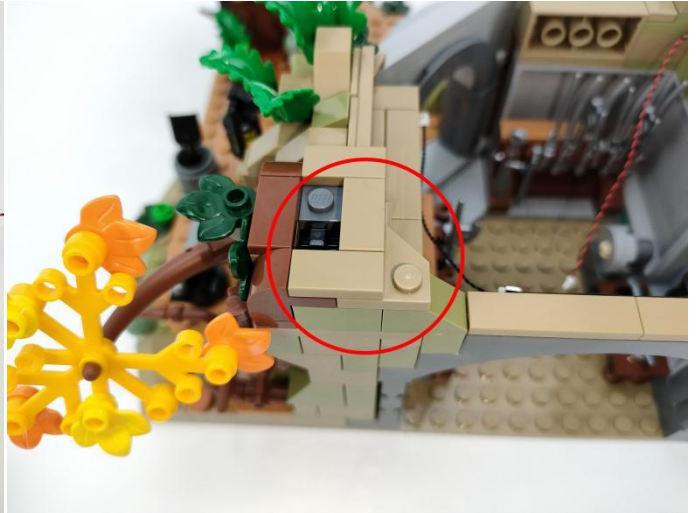
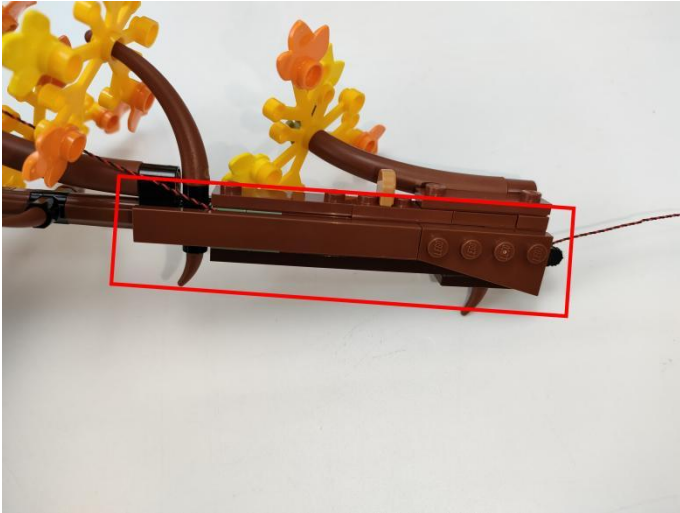
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84



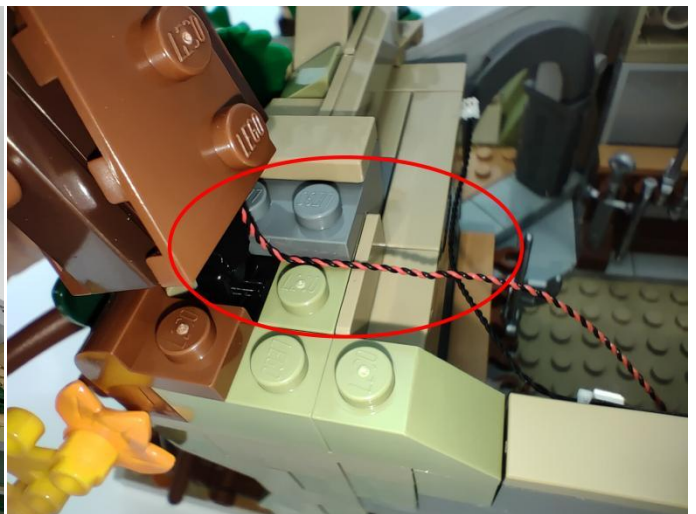
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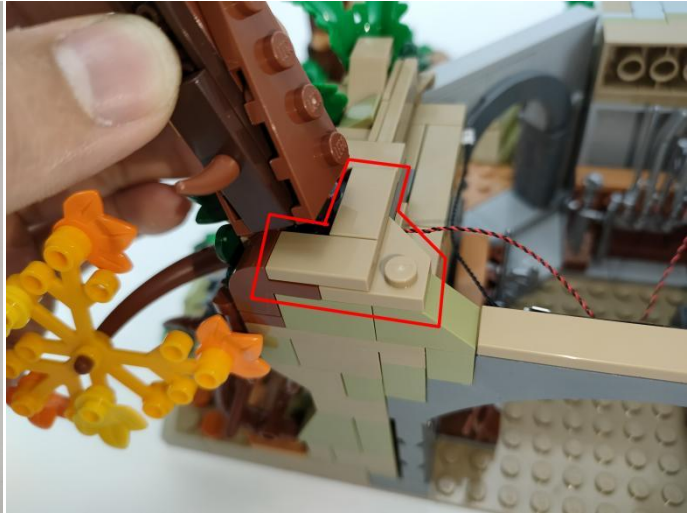
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87



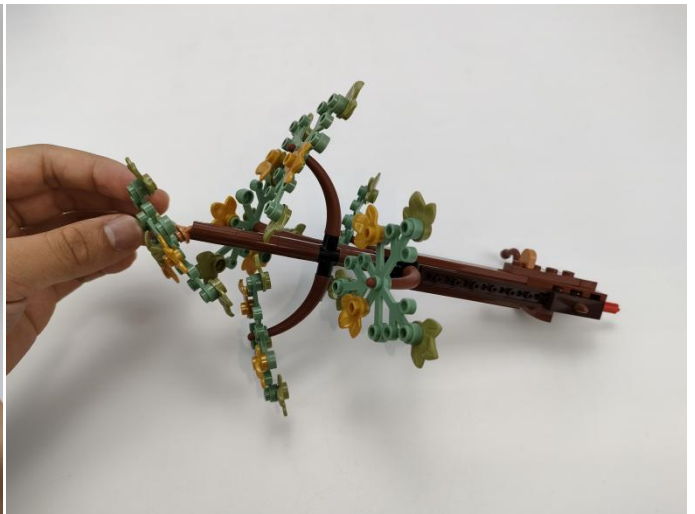
88



89



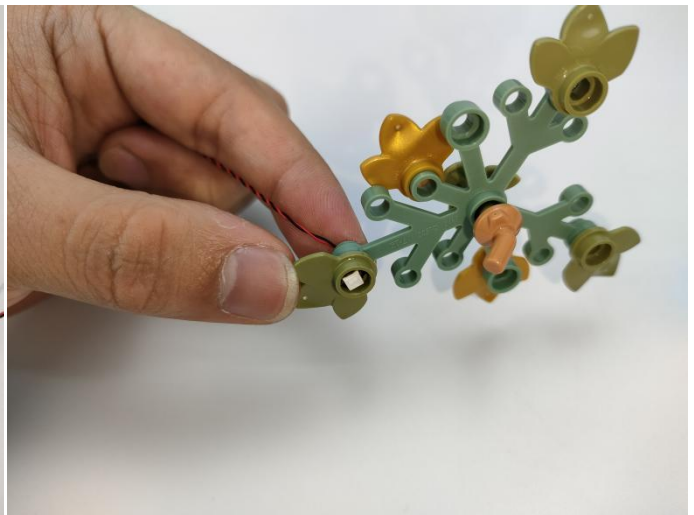
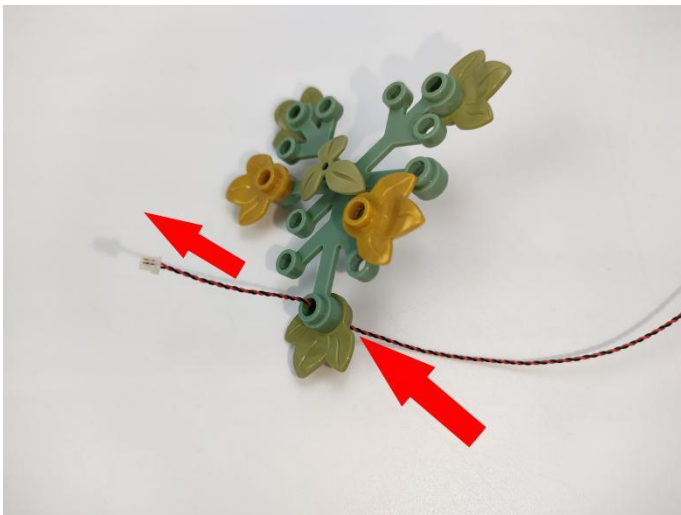
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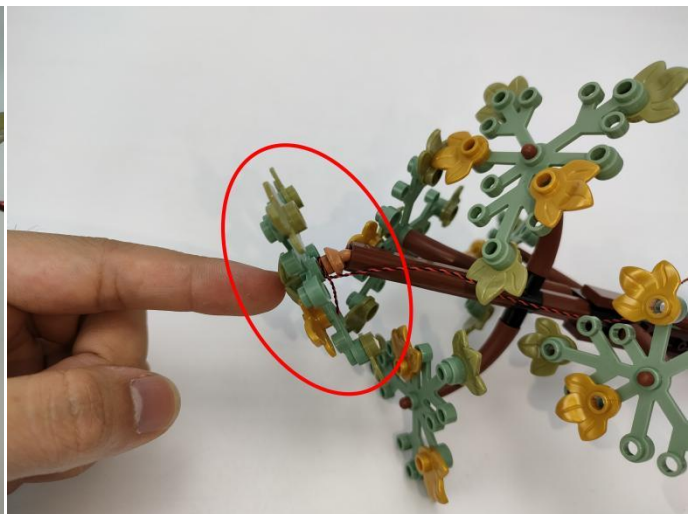
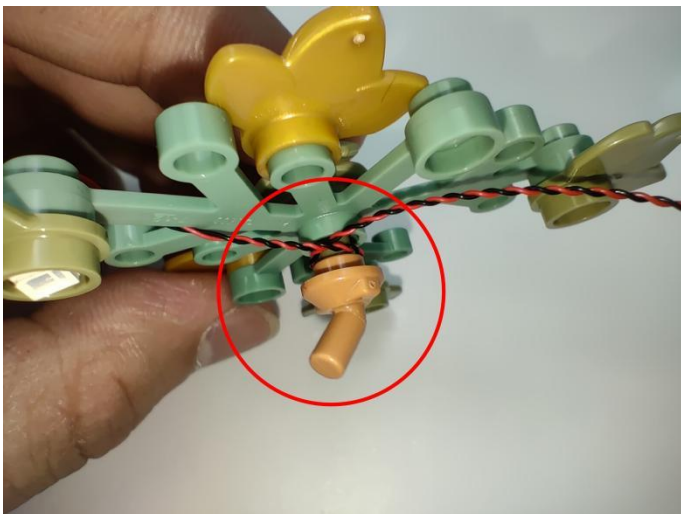
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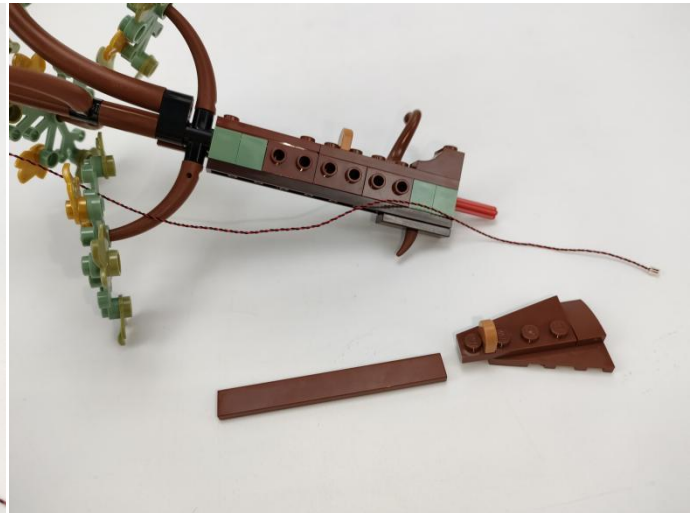
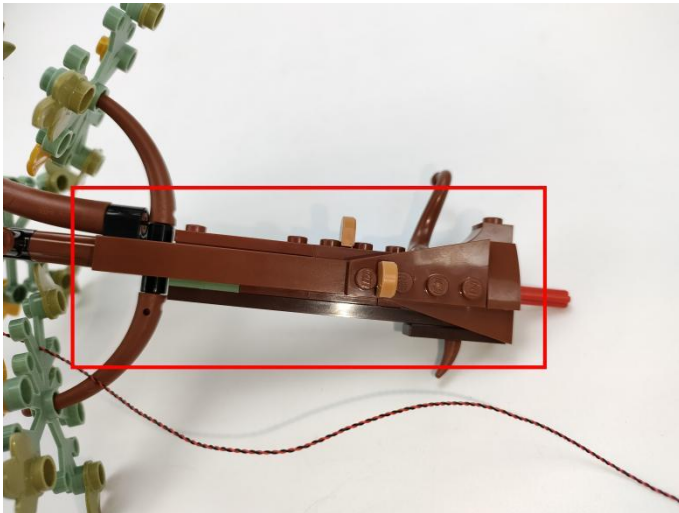
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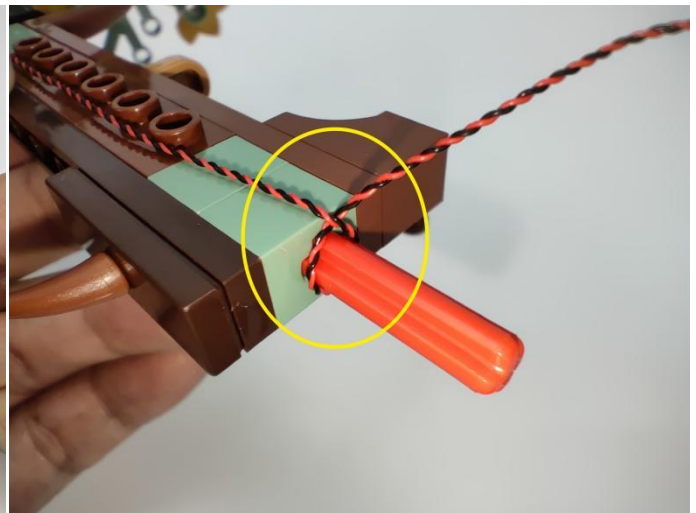
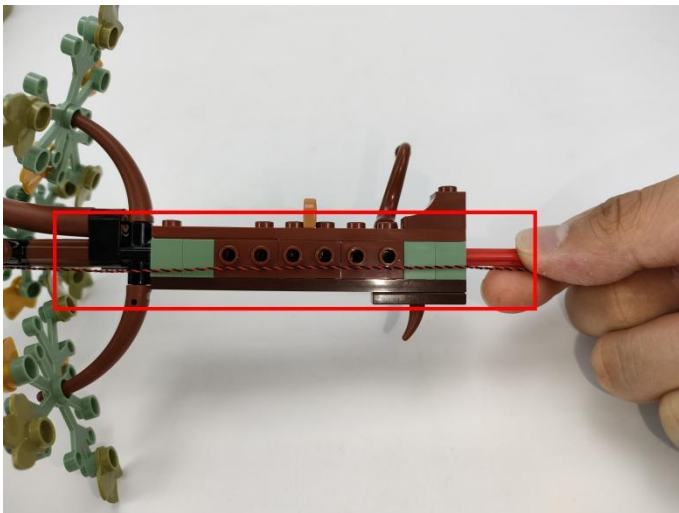
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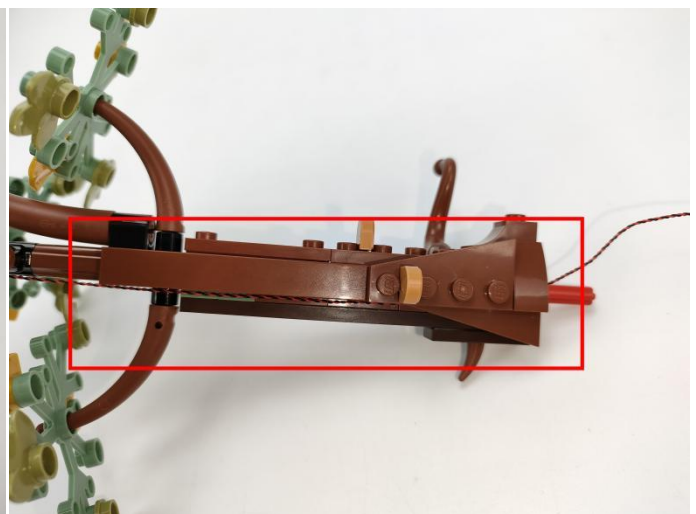
94



95. Pull the light wire to the right and wrap it around the block.



96



# 97



# 98



## 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:

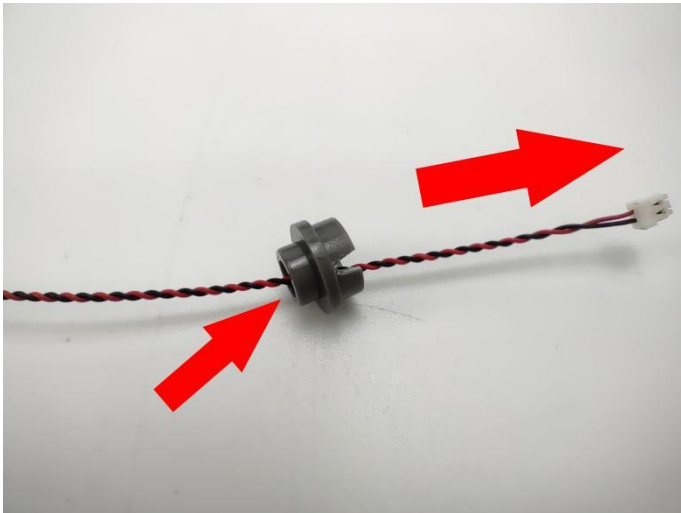
The wire has enough space to avoid being squeezed endowed with longer service life and more stable effect.



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



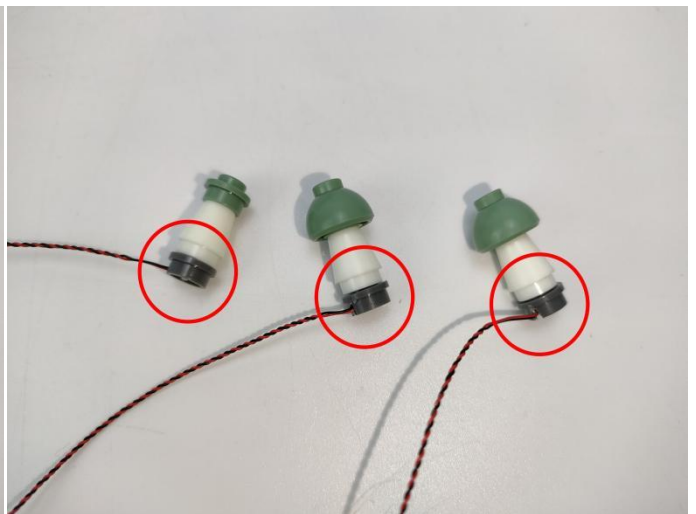
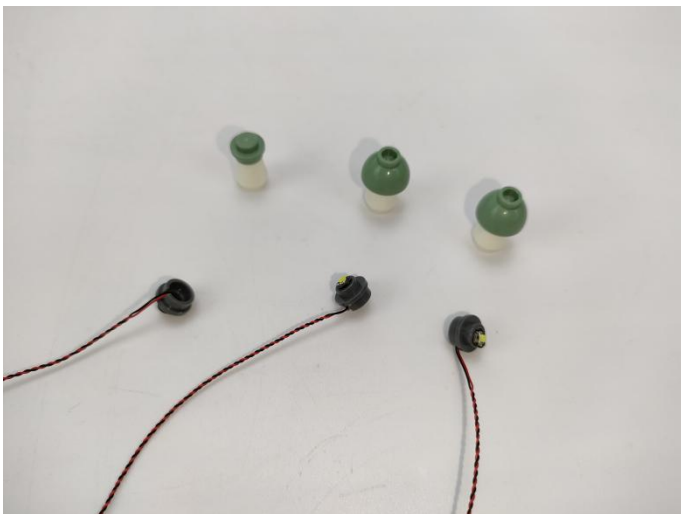
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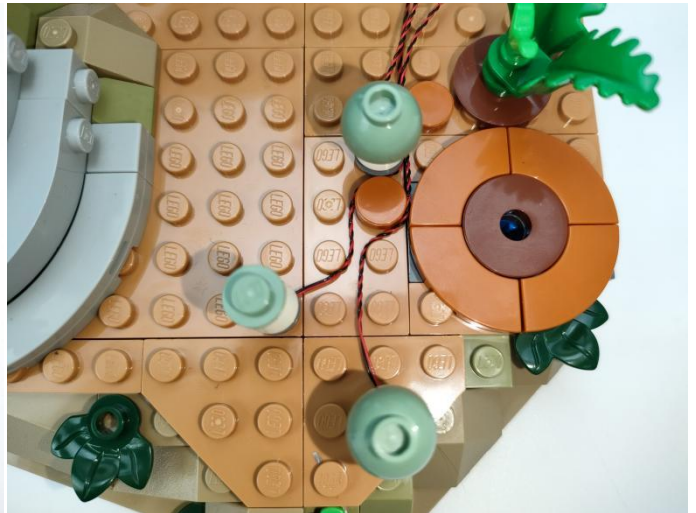
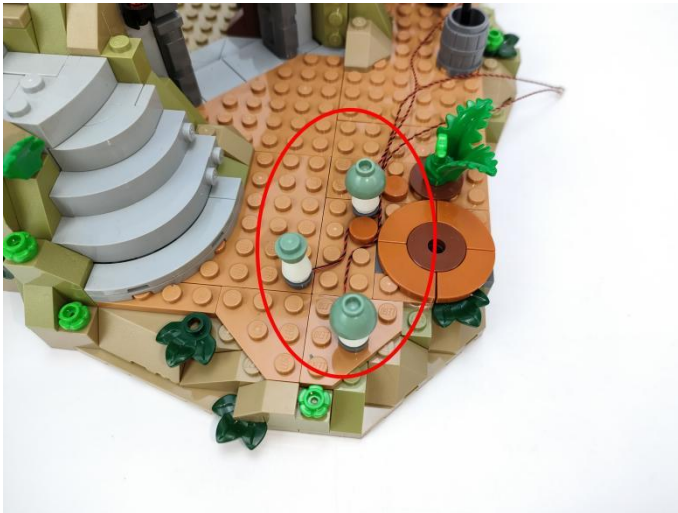
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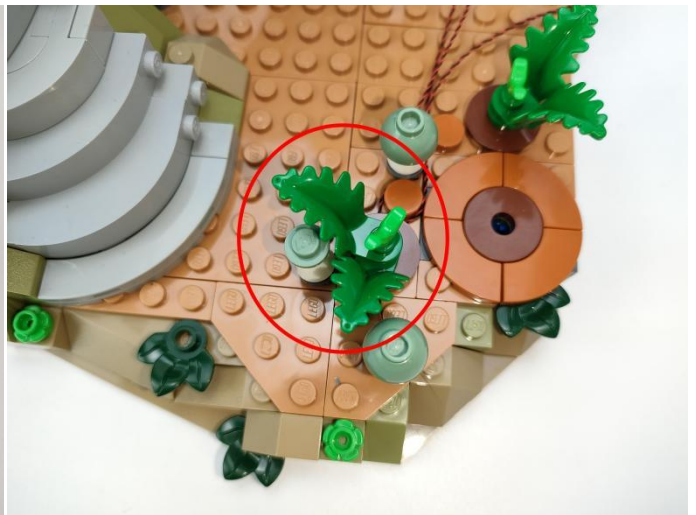
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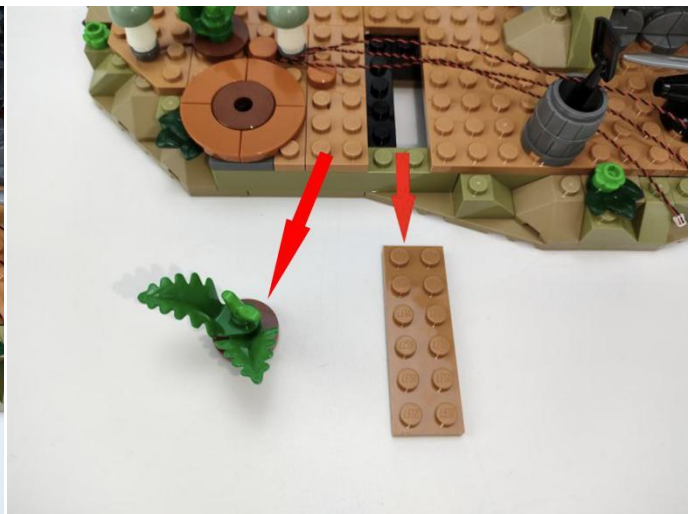
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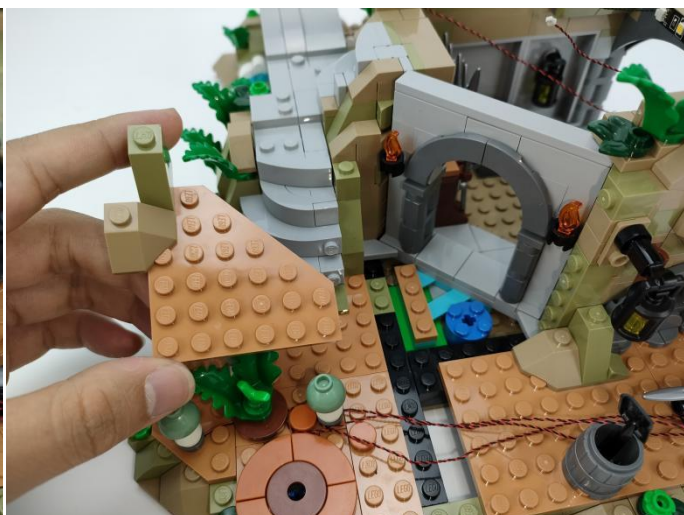
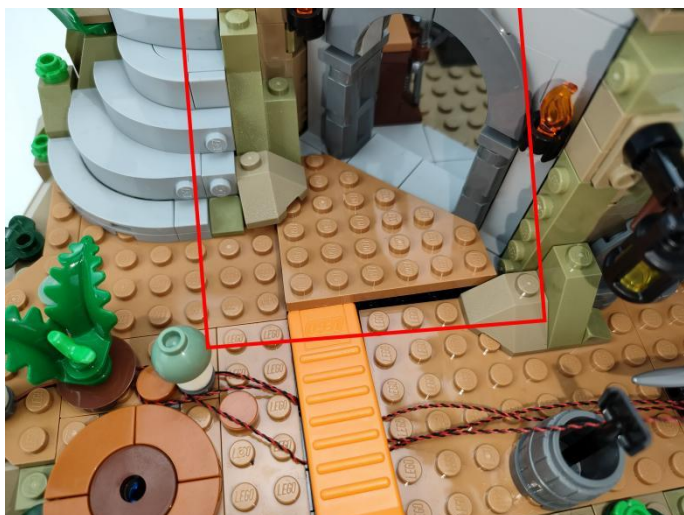
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104



105



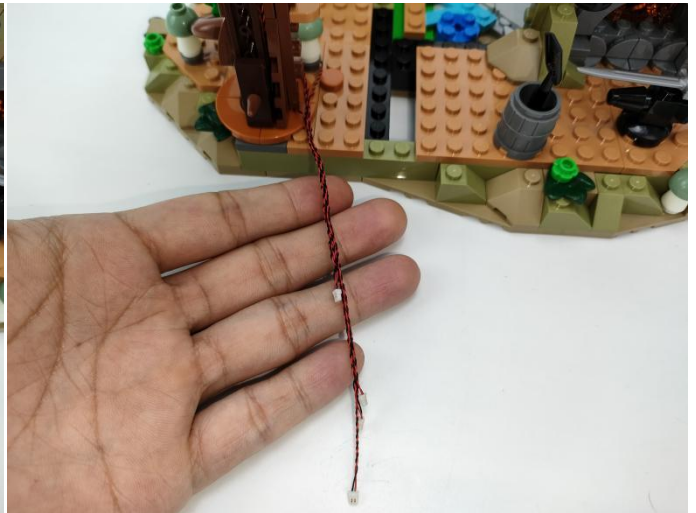
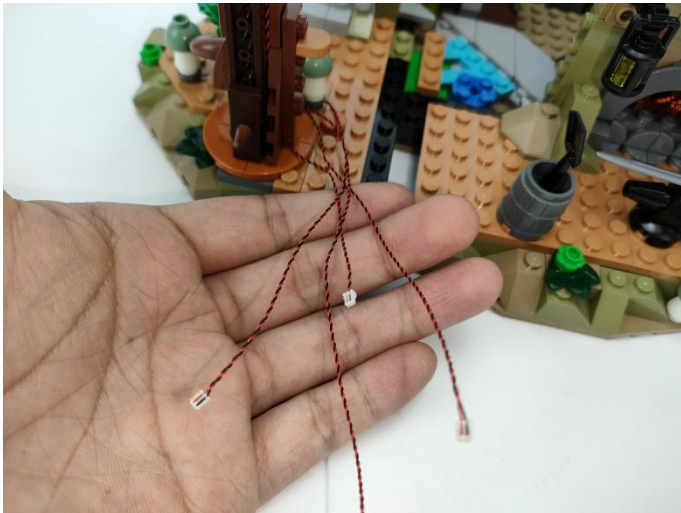
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107



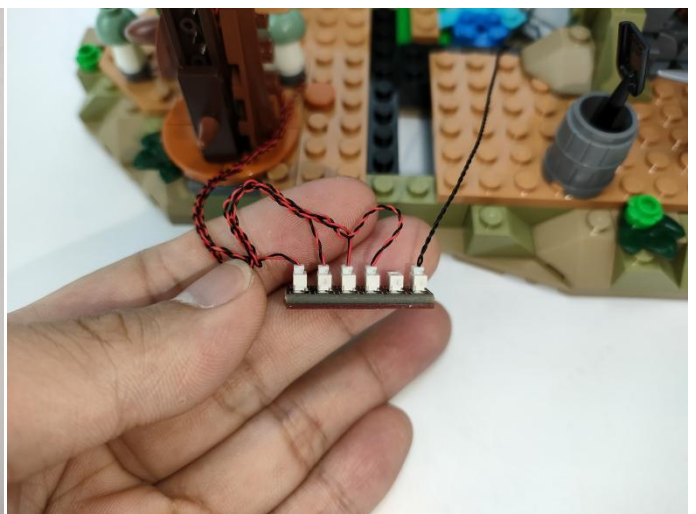
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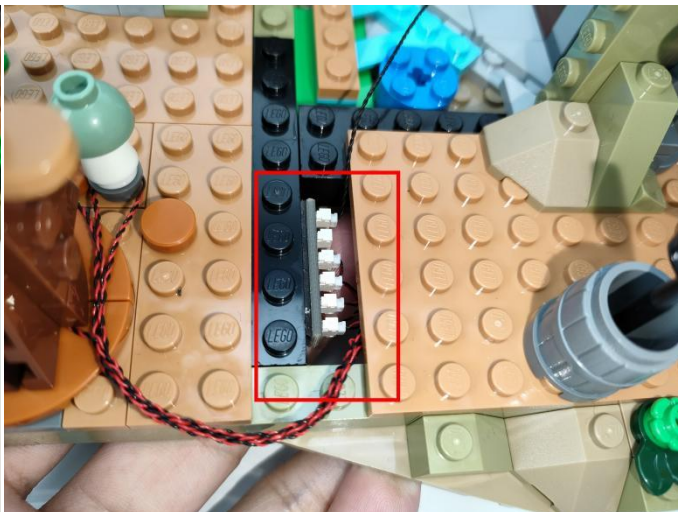
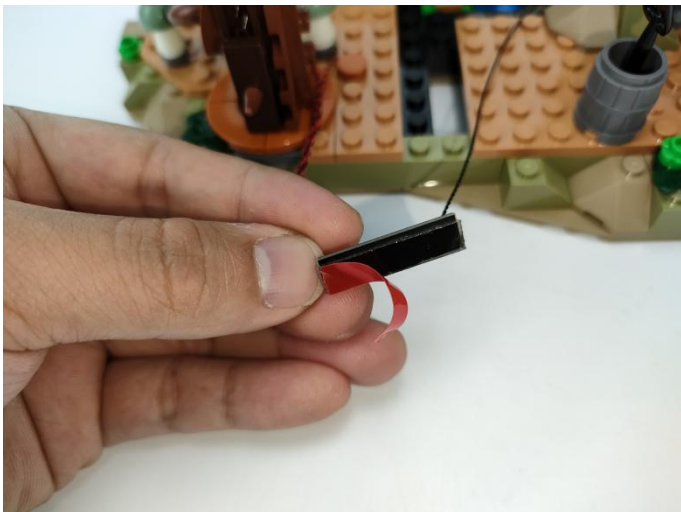
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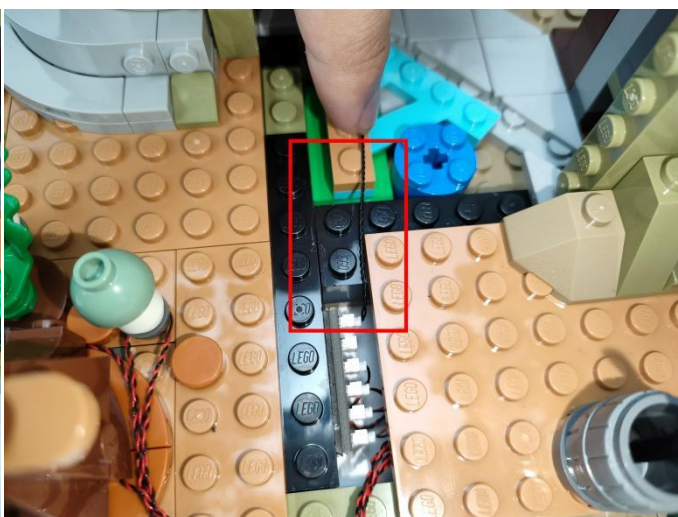
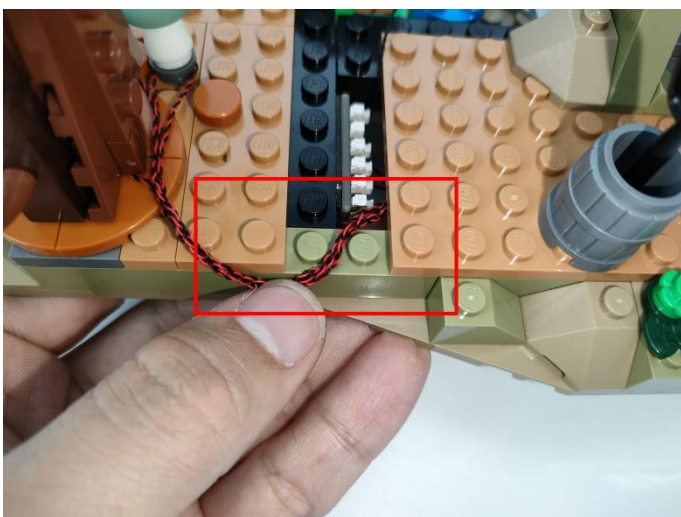
110



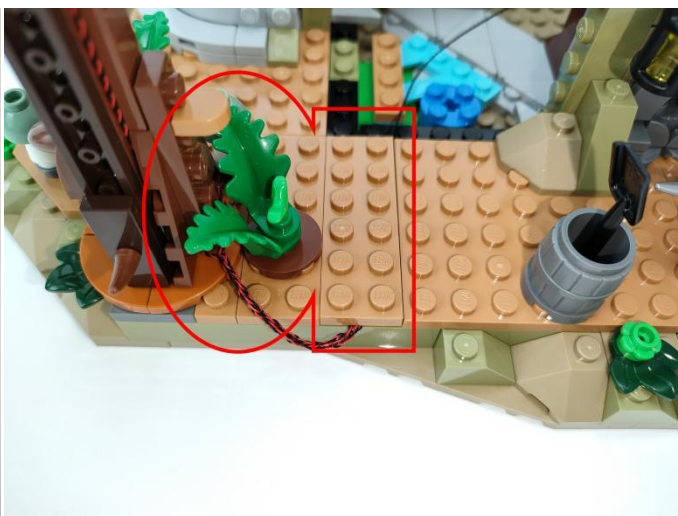
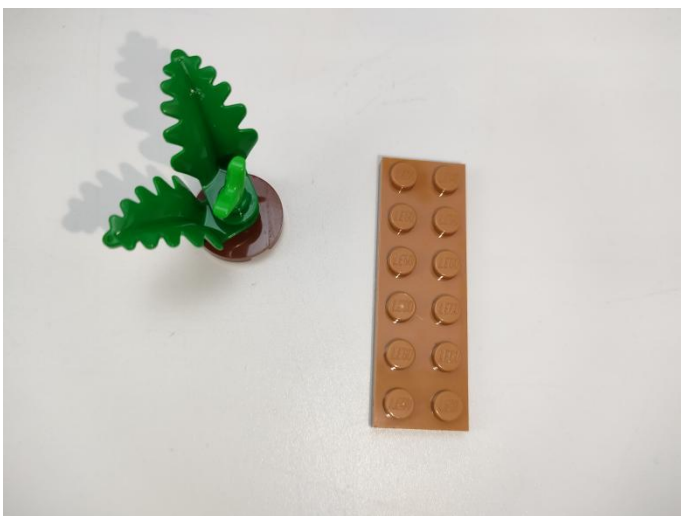
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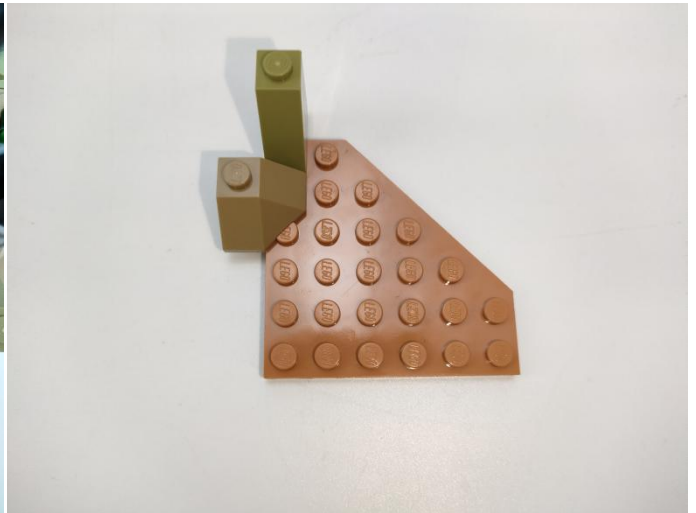
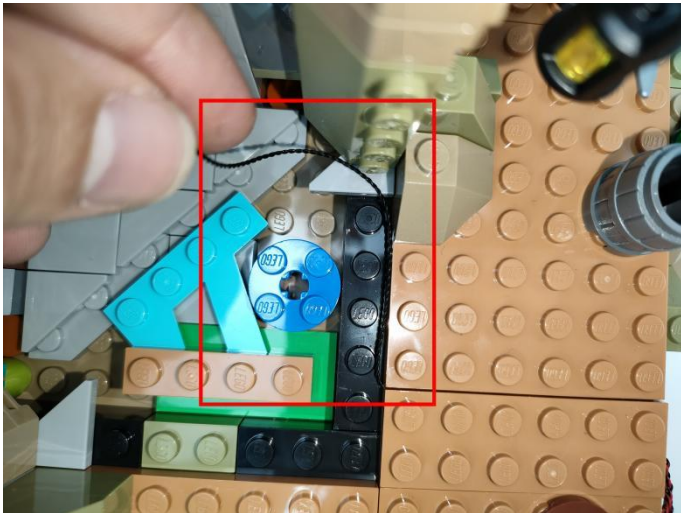
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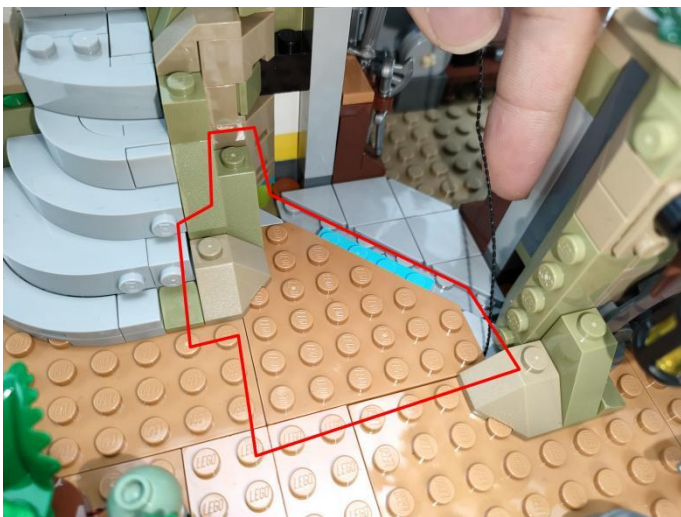
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114



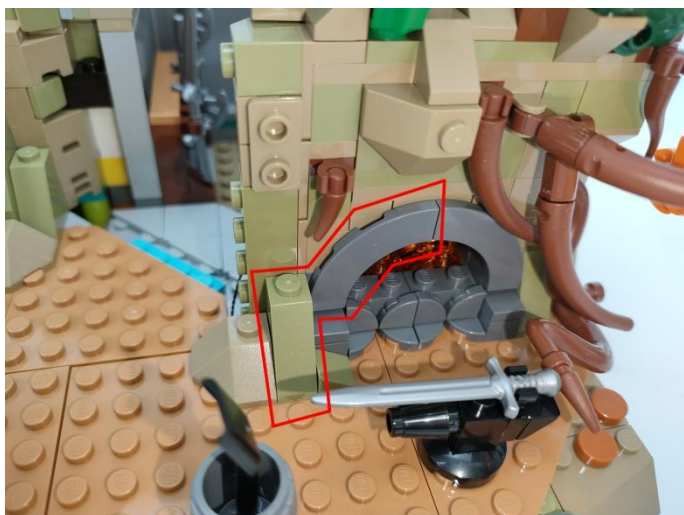
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116



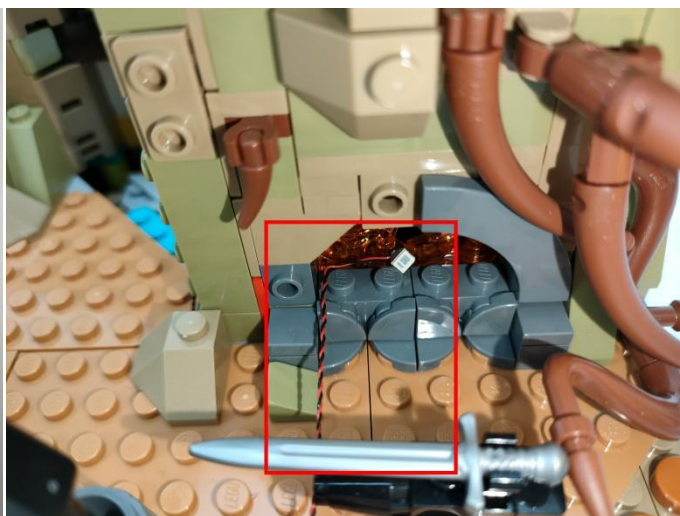
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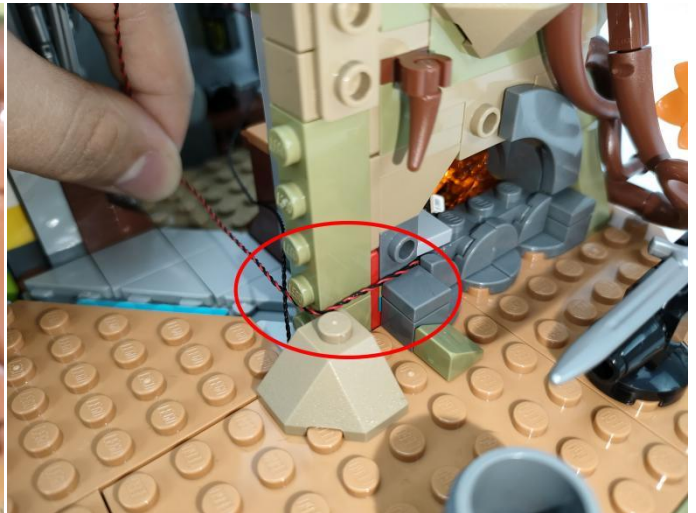
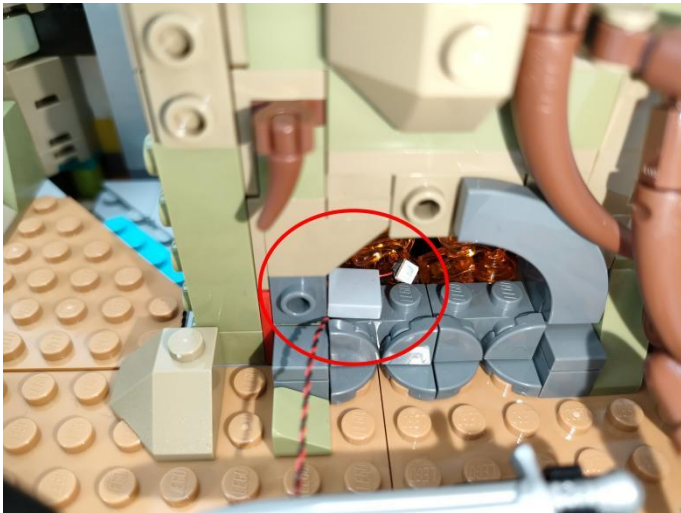
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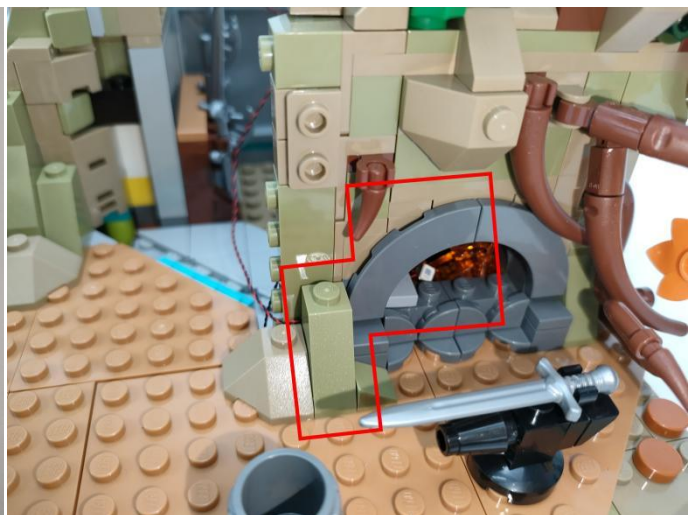
119



120



121



122

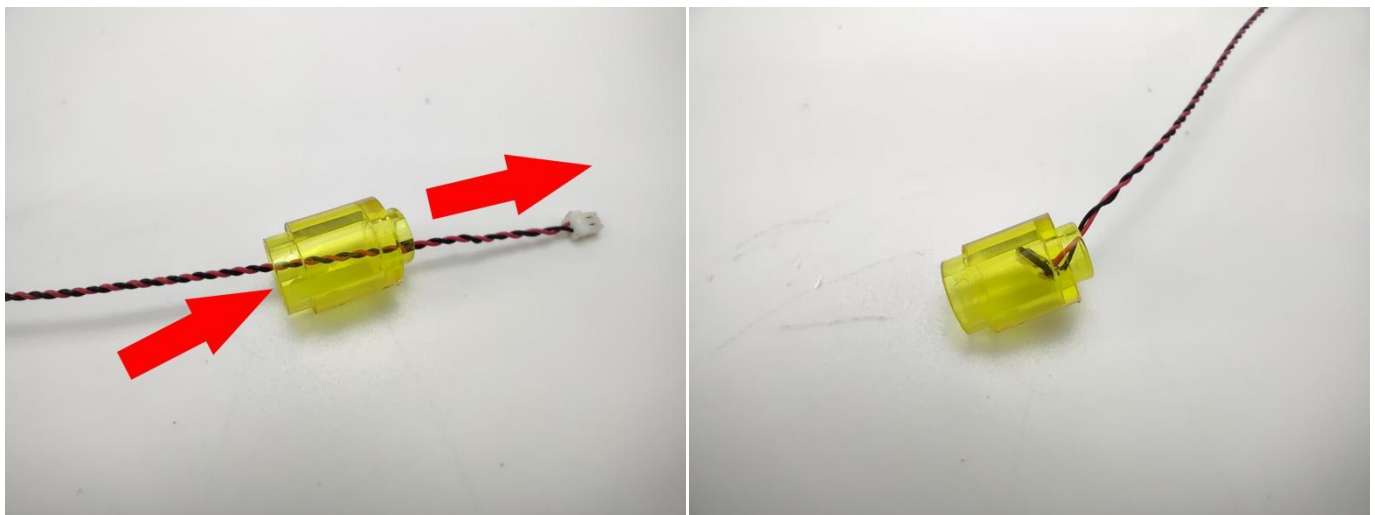




# 123



# 124



# 125



# Tips

The plate without slit:

## The plate without slit:

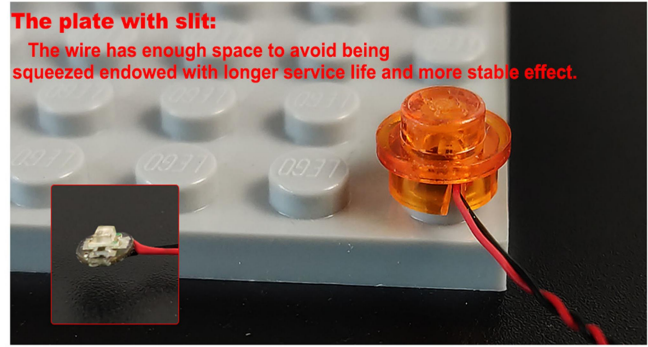
The squeeze causes the protective layer of the wire to be torn apart, the positive and negative wires touch together, and the set is short-circuited and the hot or wire is crushed, the wire to be disconnected and don't work.



The plate with slit:

## The plate with slit:

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

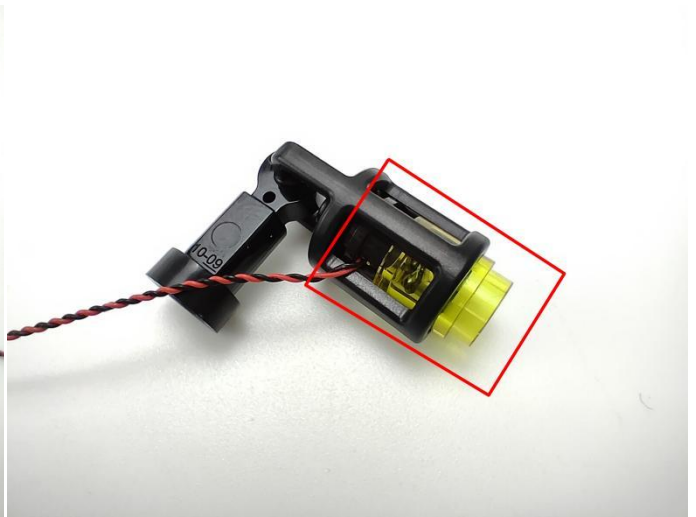


The slit on the the plate round 1X1 are hand-made to avoid squeeze the wire and cause short circuit and abnormal heat during installation.

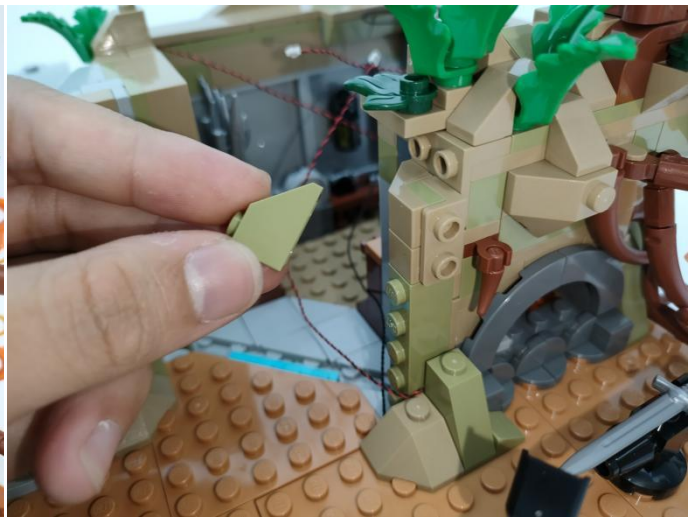
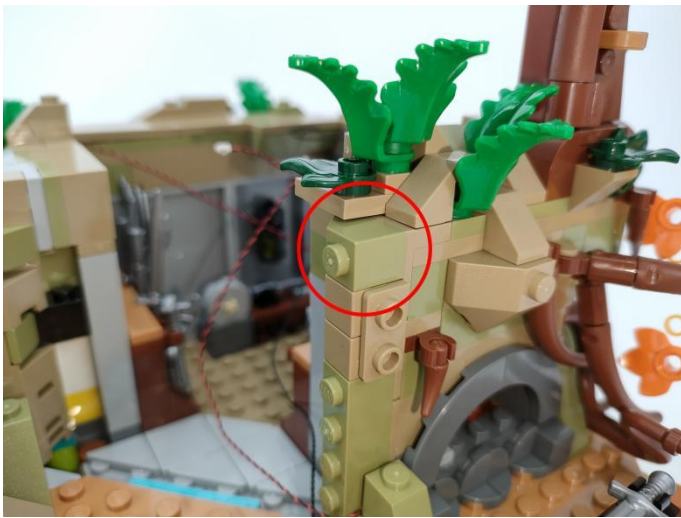
# 126



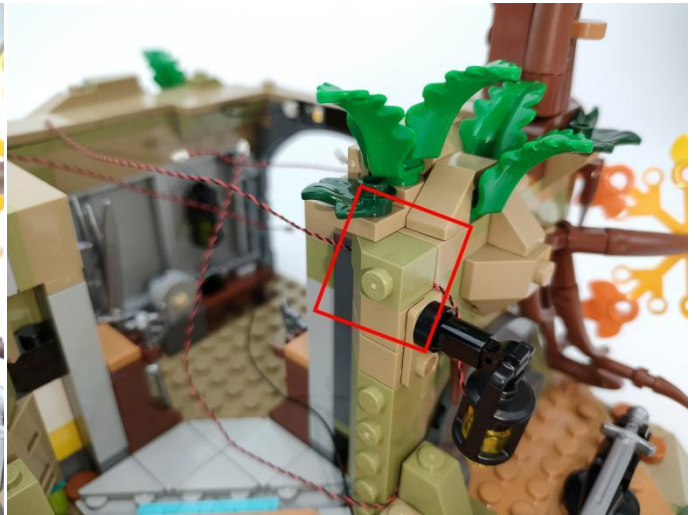
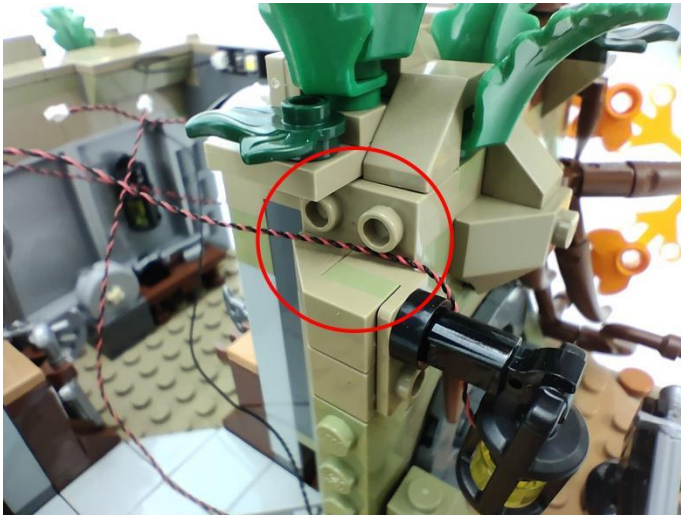
127



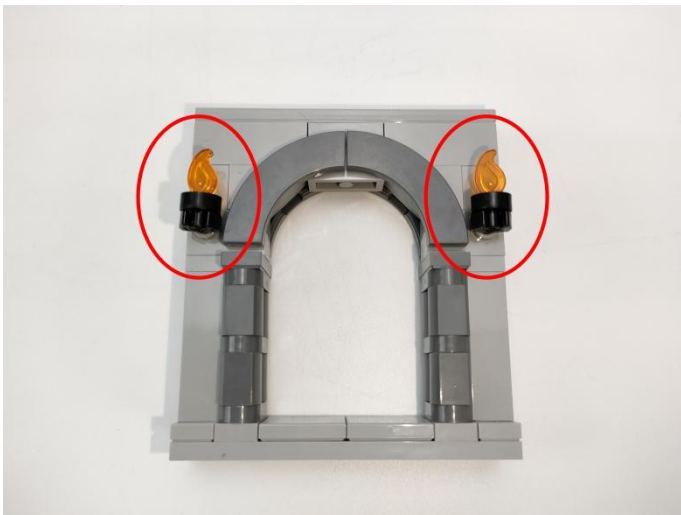
128



129



130



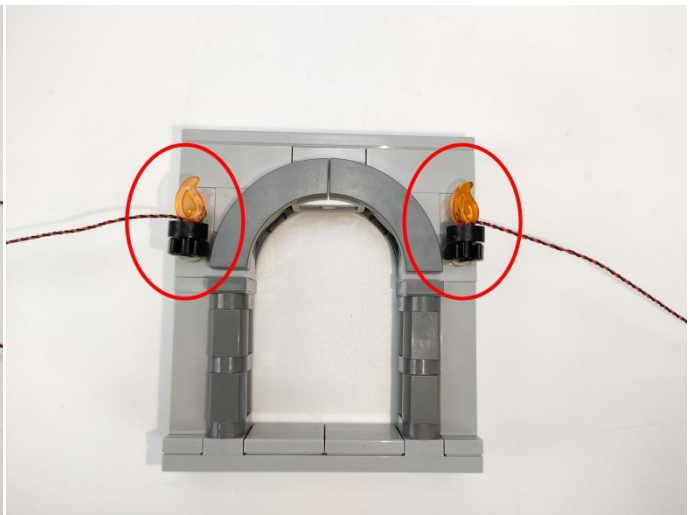
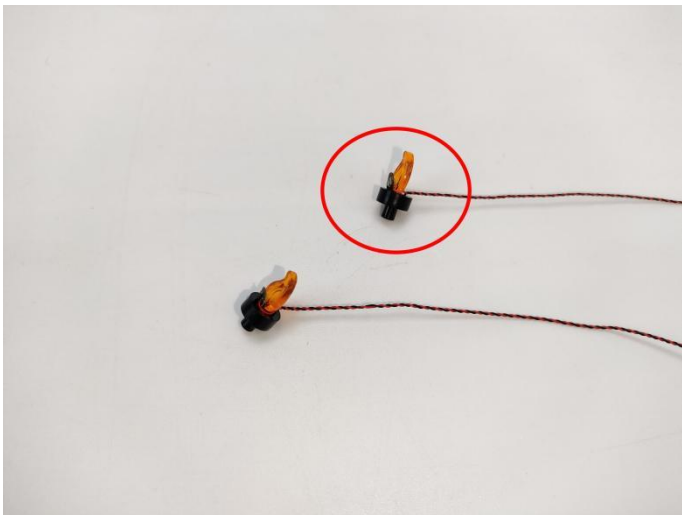
131



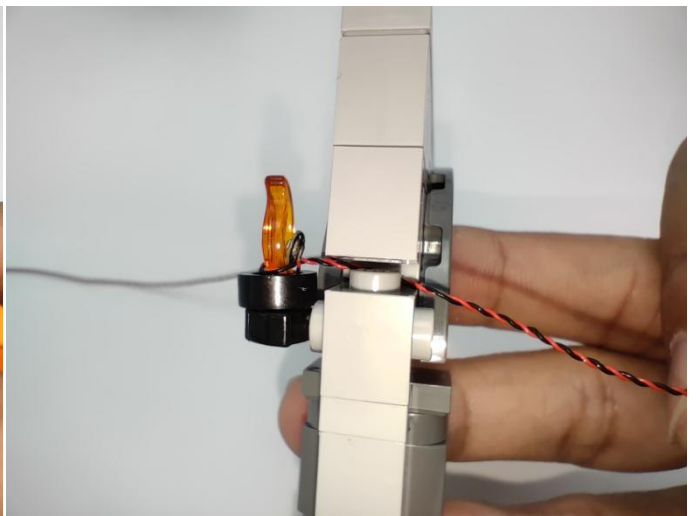
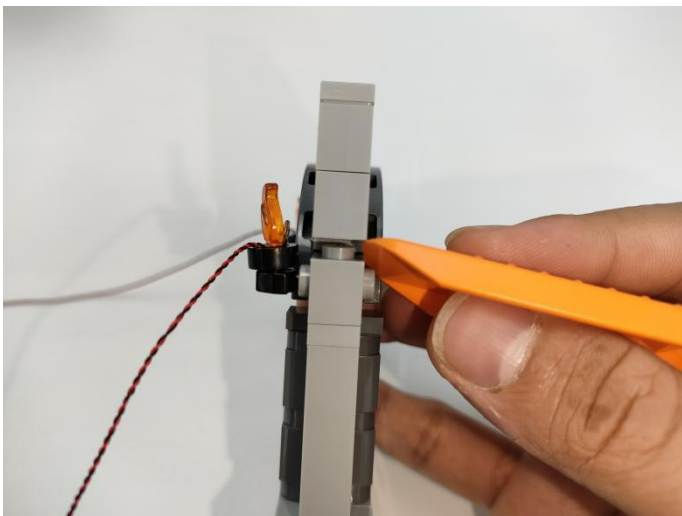
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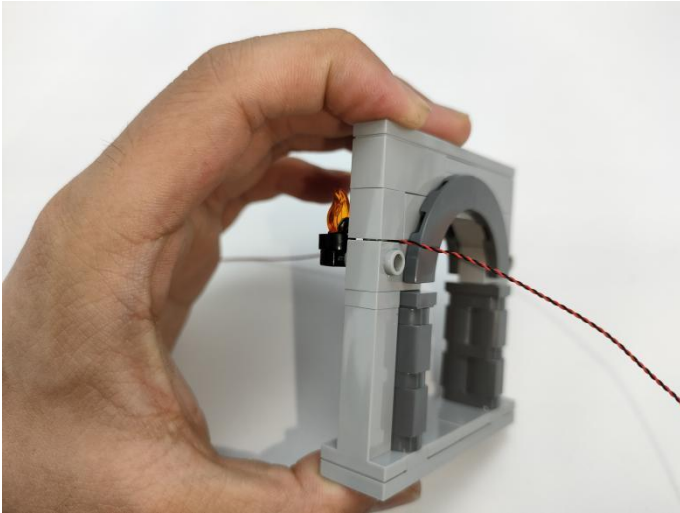
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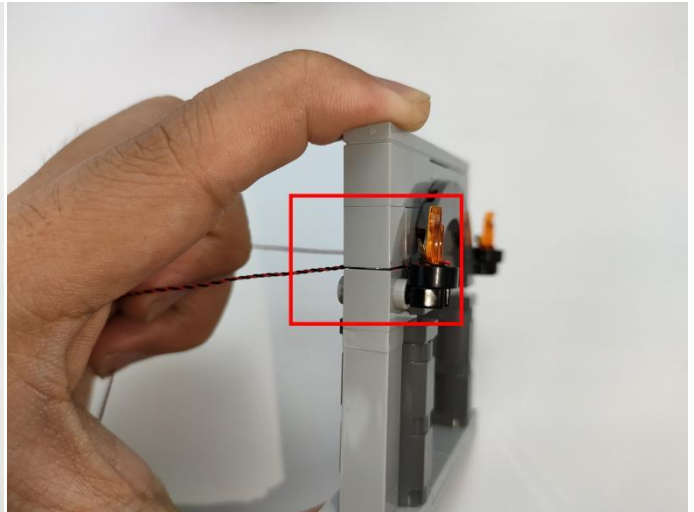
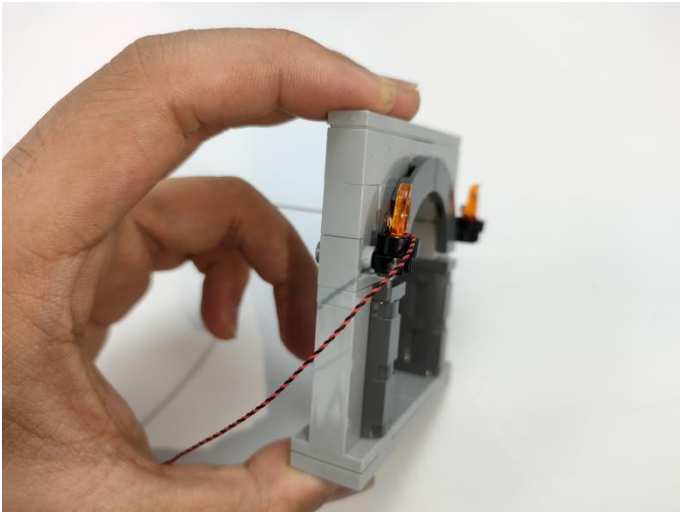
134



**135**



**136.** The other side method is the same as above.



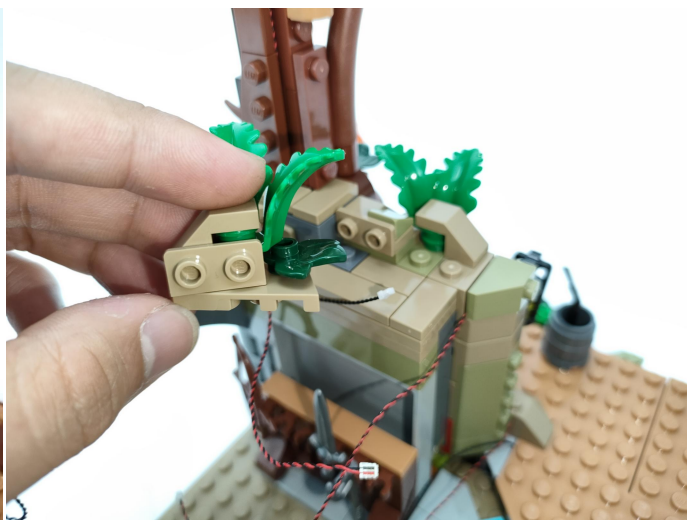
**137**



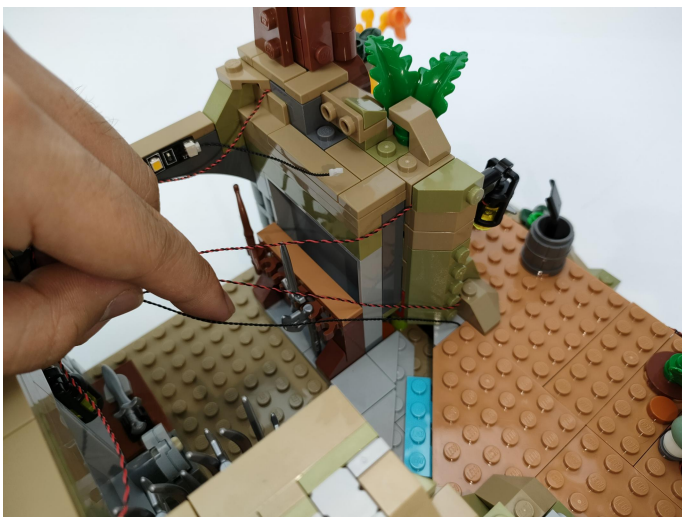
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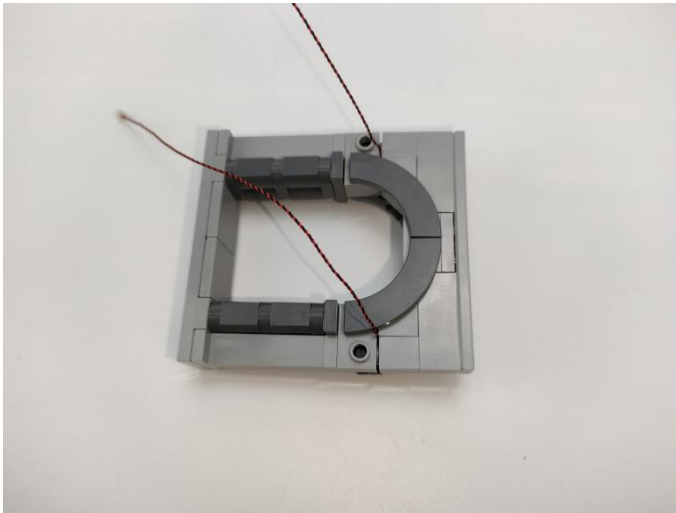
**139**



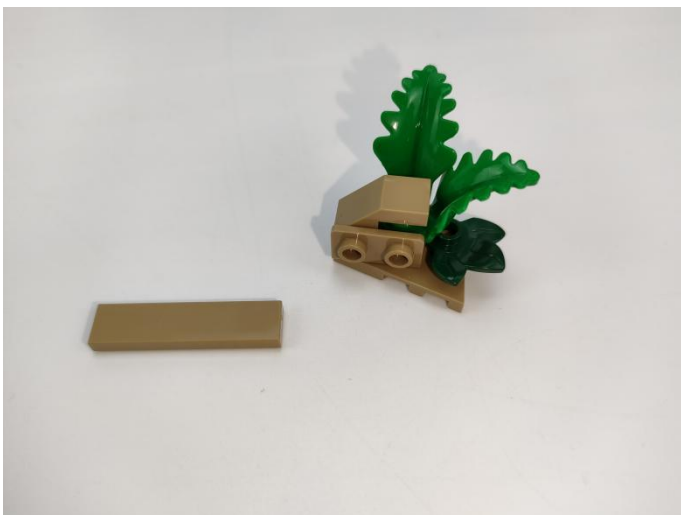
**140.** Pull the 3 light wires in the picture to the left and place them.



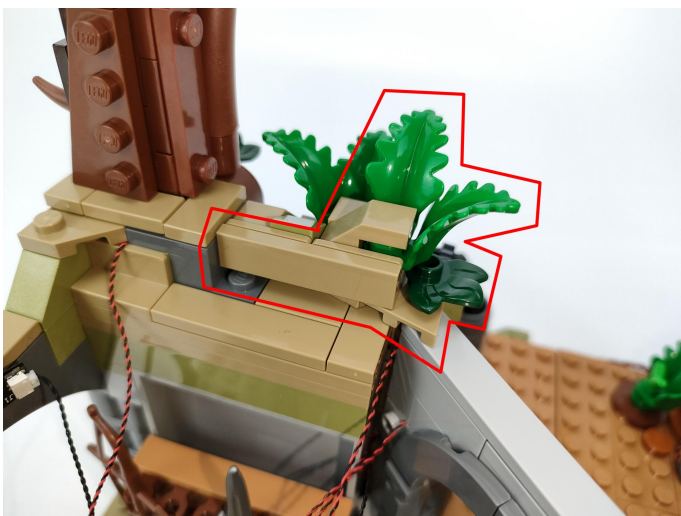
141



142

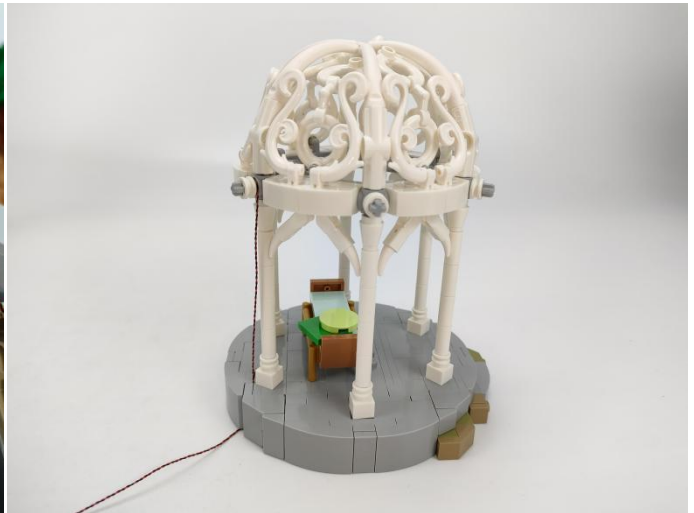
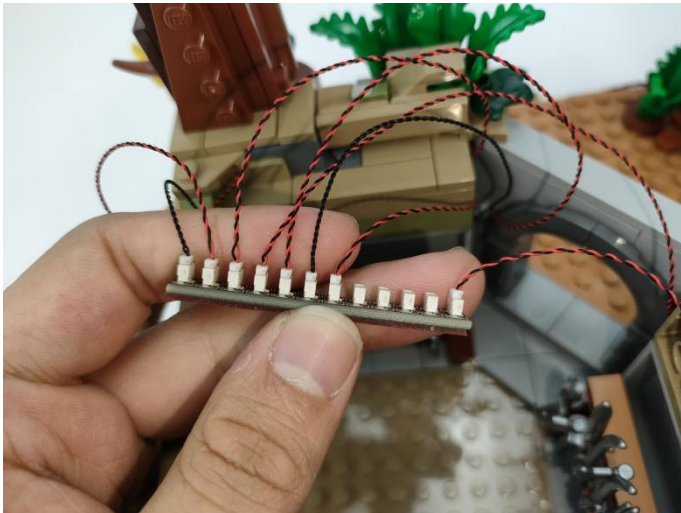


143

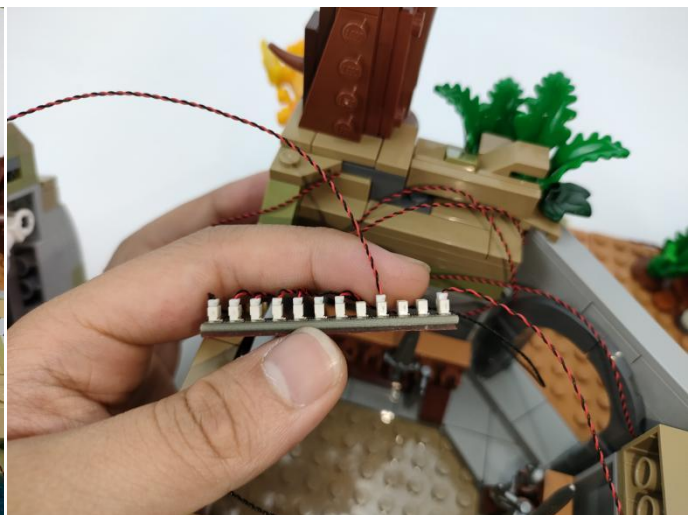




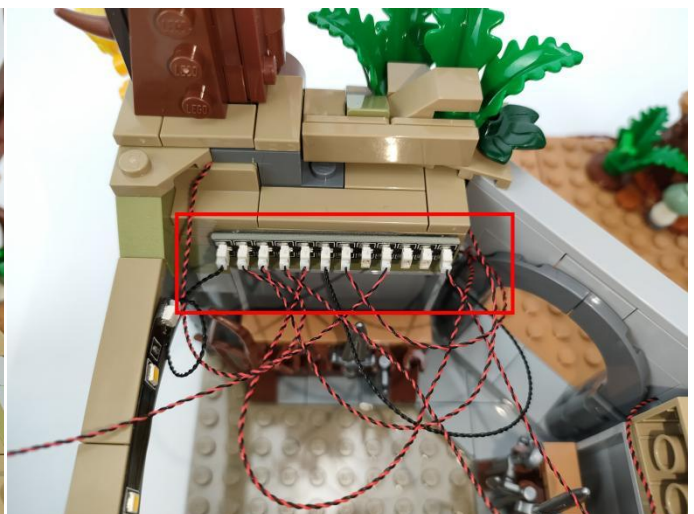
144



145



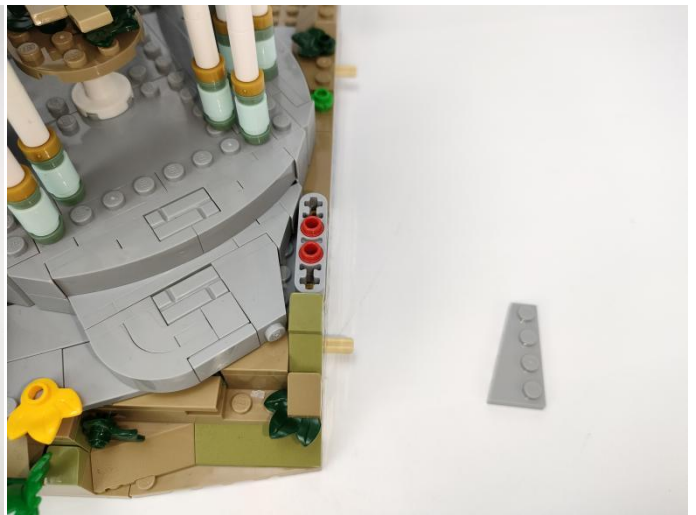
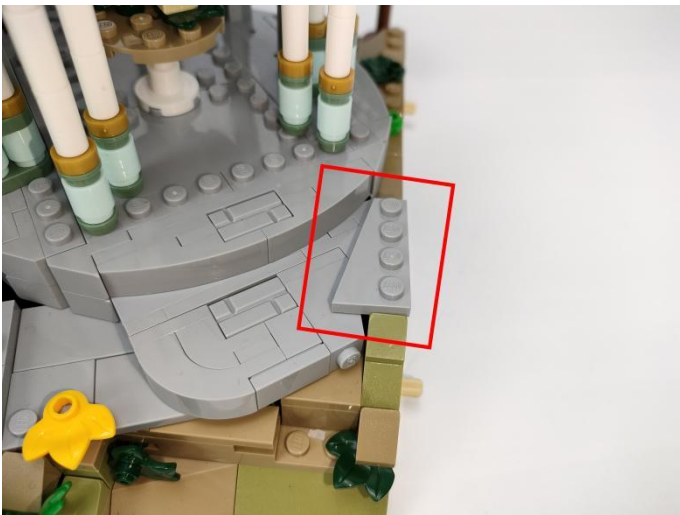
146



147



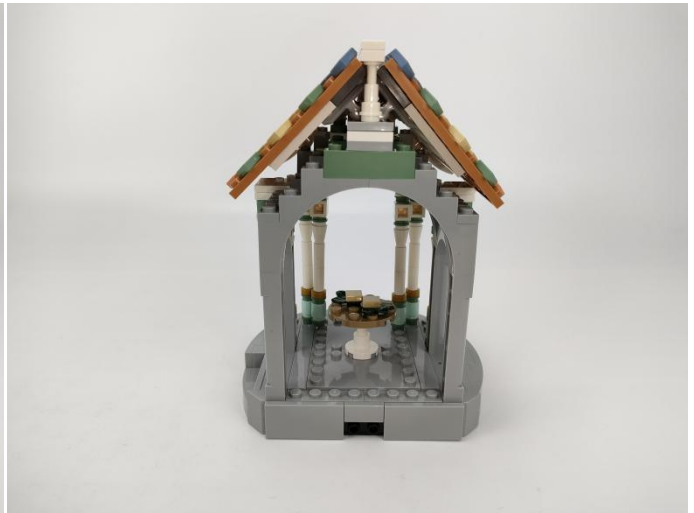
148



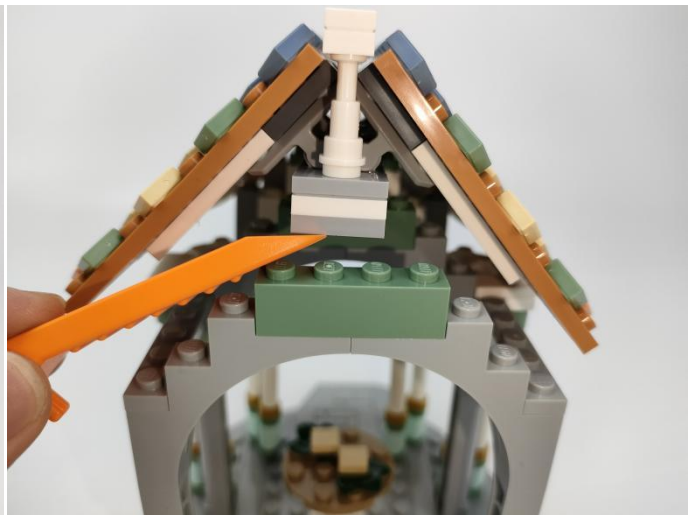
149. Disassemble the building blocks in sequence as shown in the figure.



150



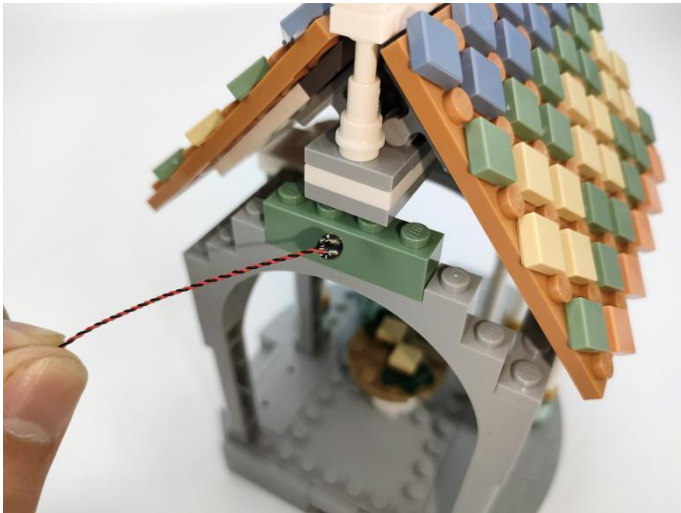
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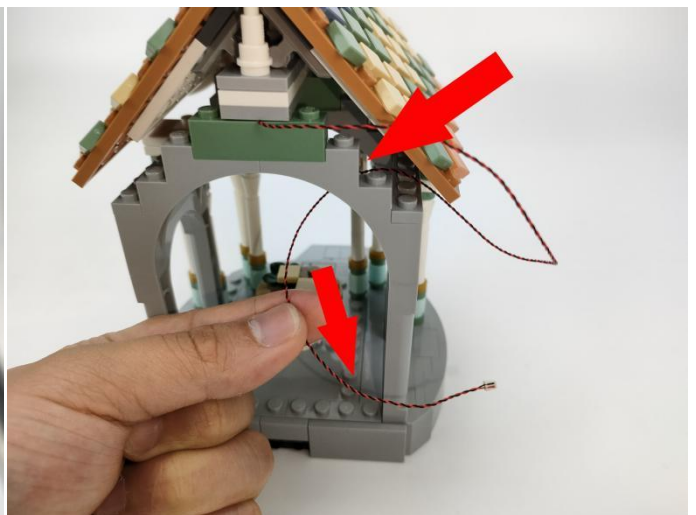
152



153



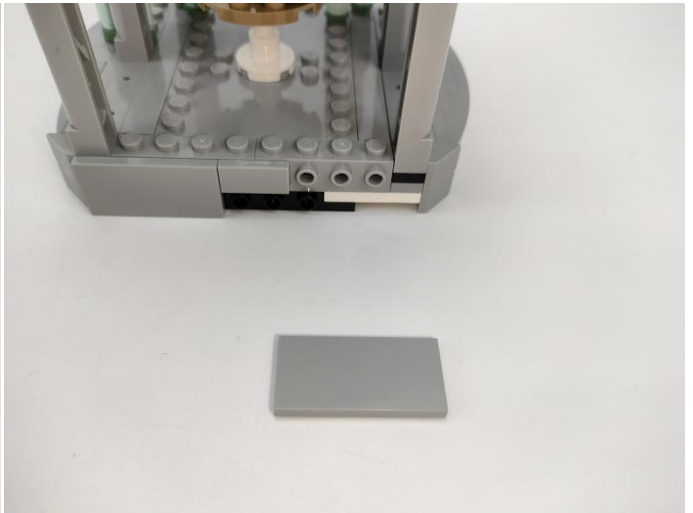
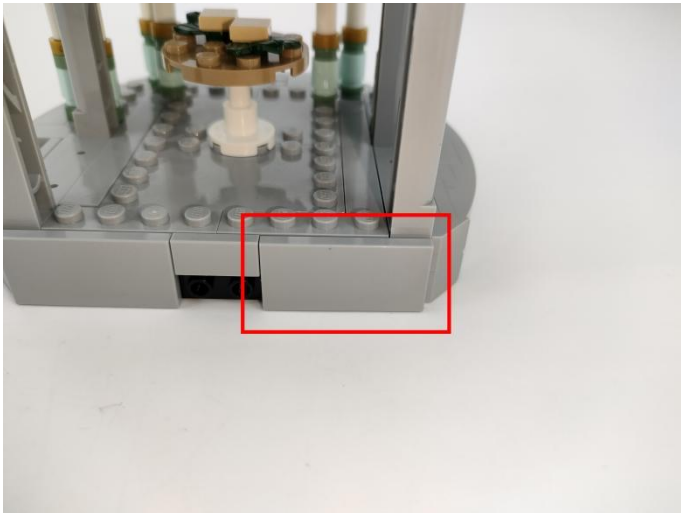
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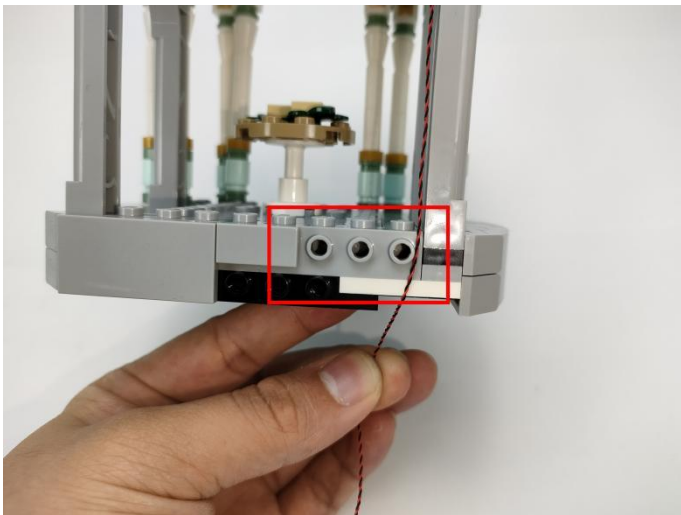
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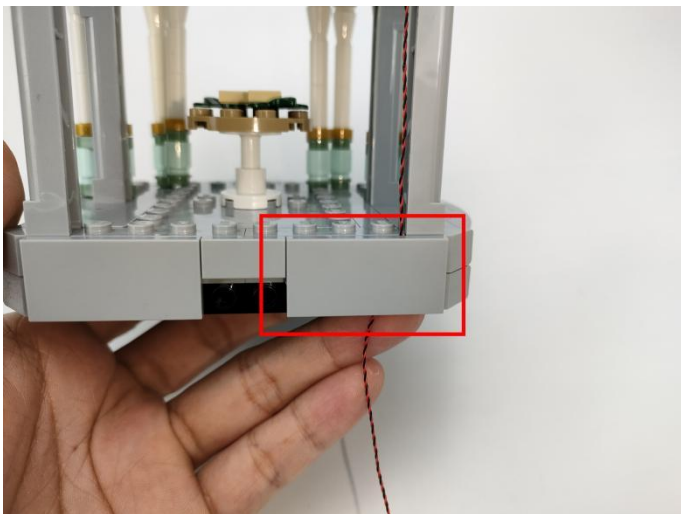
156



157



158



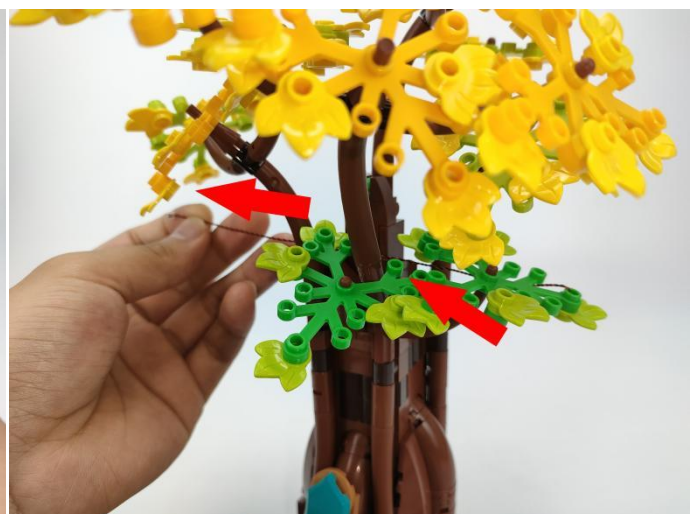
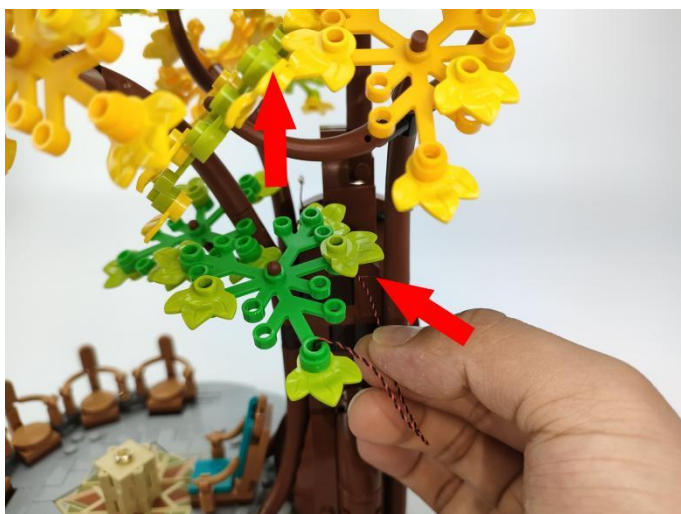
159



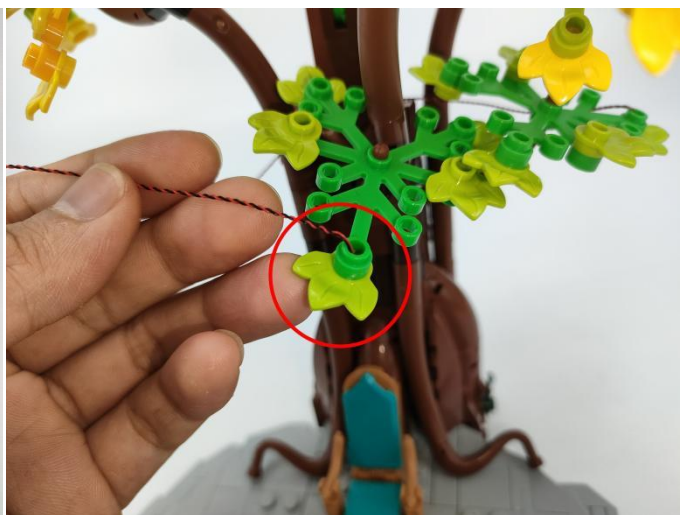
**160.** Pass the light wire through the gap of the building blocks, tighten the light wire, and finally pull the light wire to the back.



161



## 162. Same method as above.



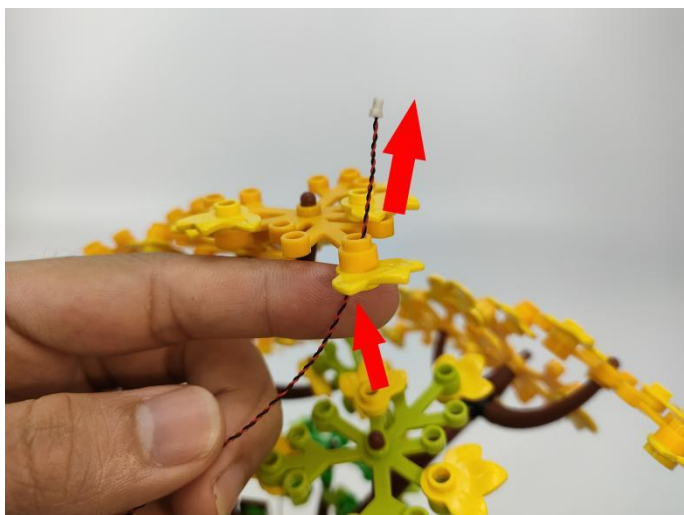
## 163



## 164



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166

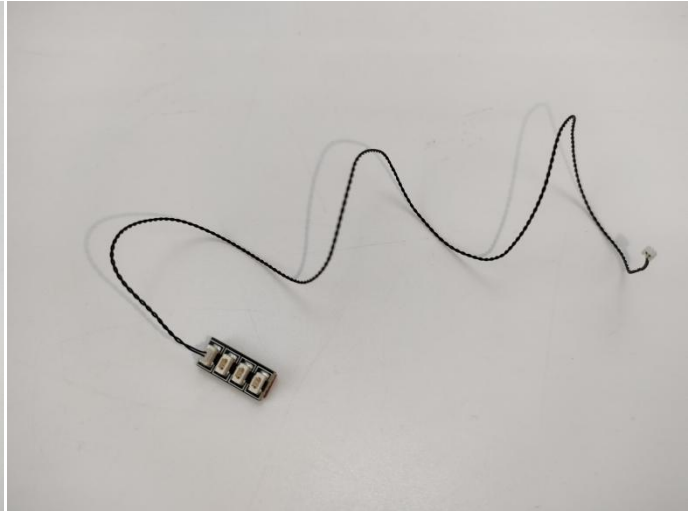


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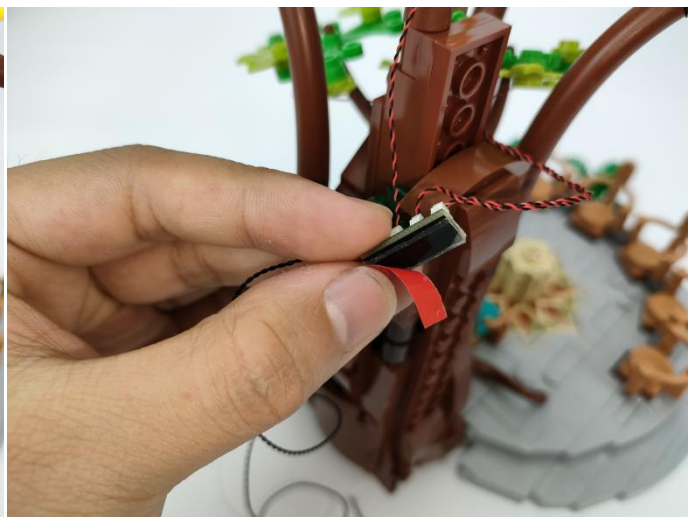
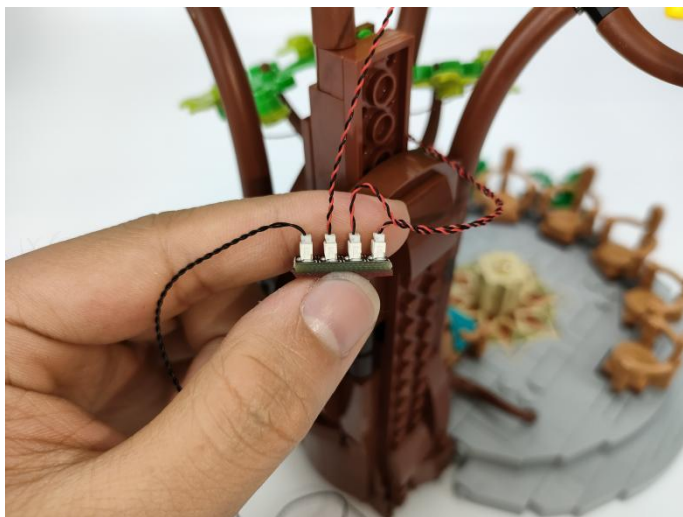




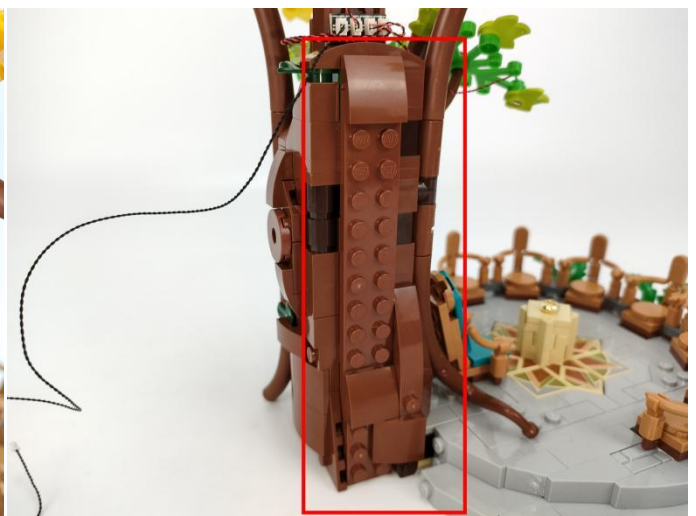
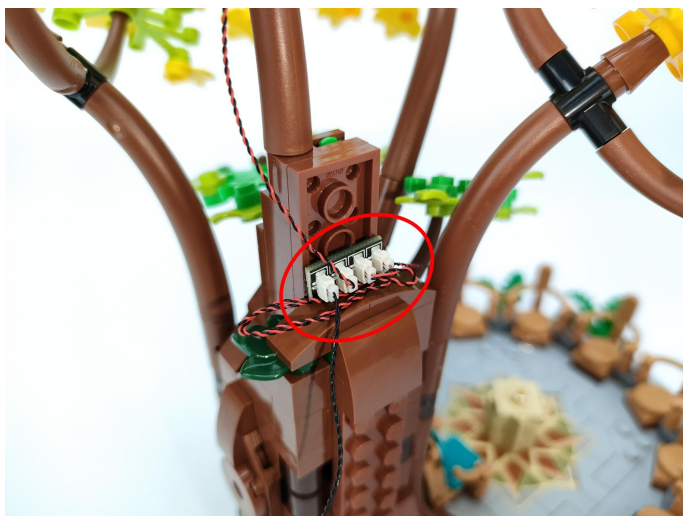
168



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# 174



## 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 wire is crushed, the wire to be disconnected and don't work.



The plate with slit:

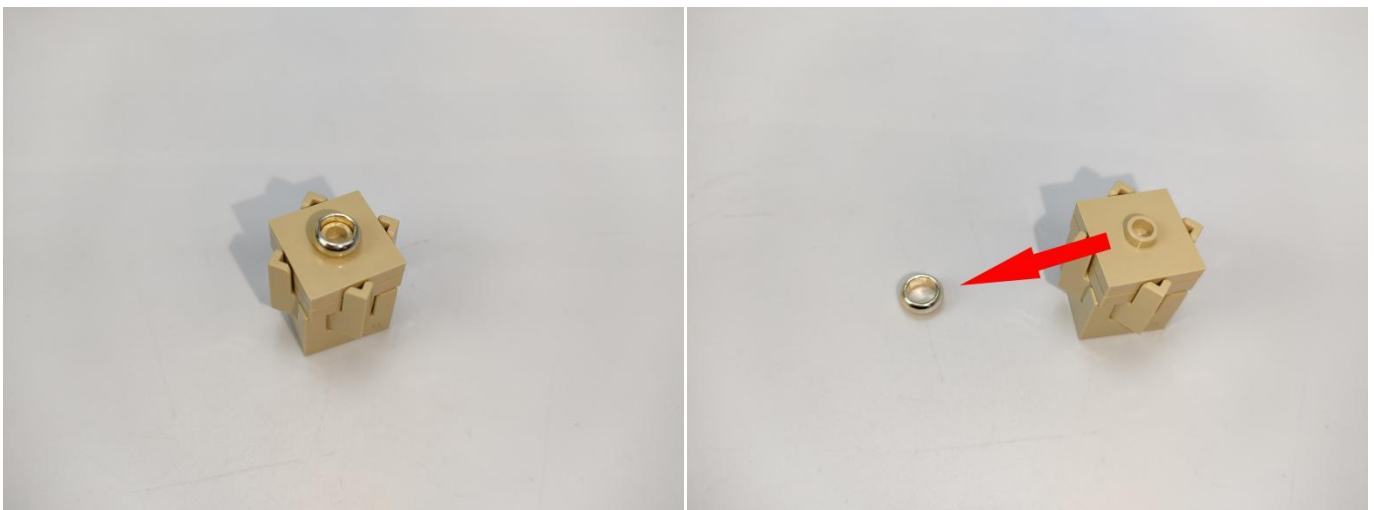
### The plate with slit:

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

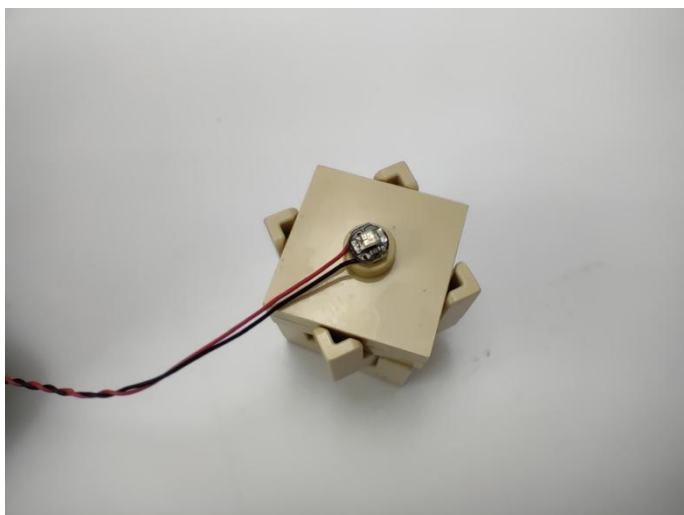


The slit on the the plate round 1X1 are hand-made to avoid squeeze the wire and cause short circuit and abnormal heat during installation.

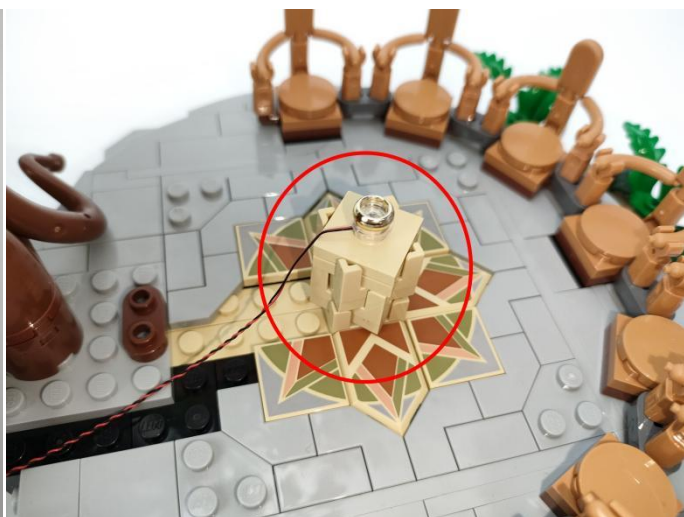
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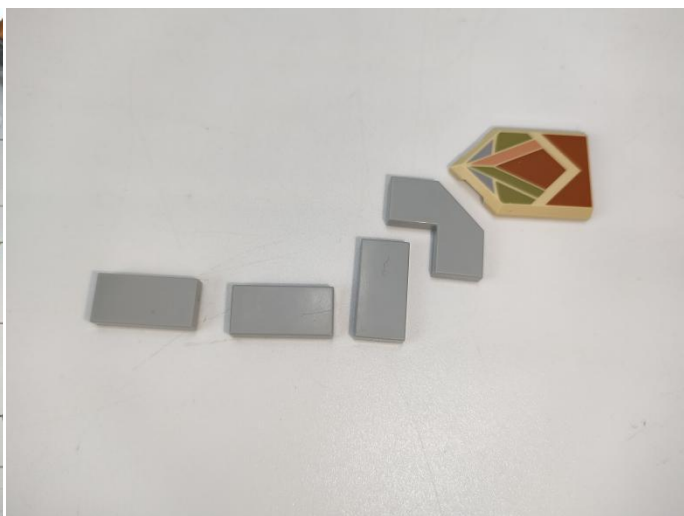
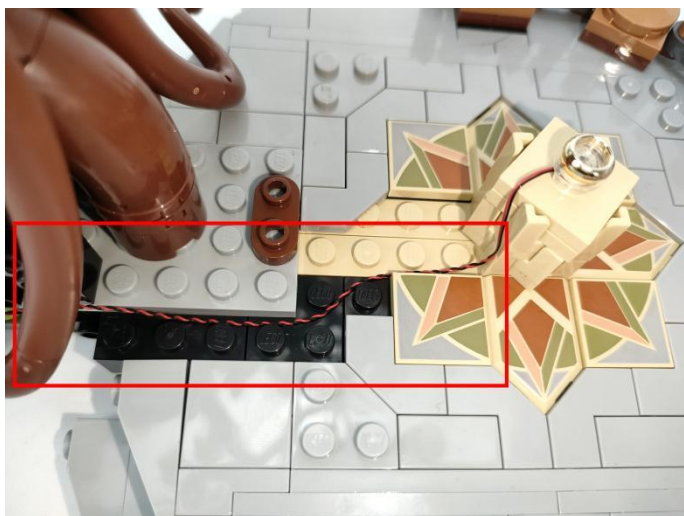
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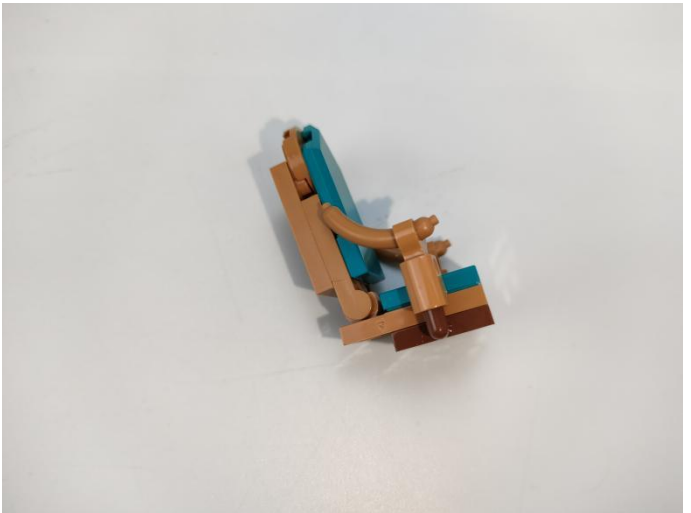
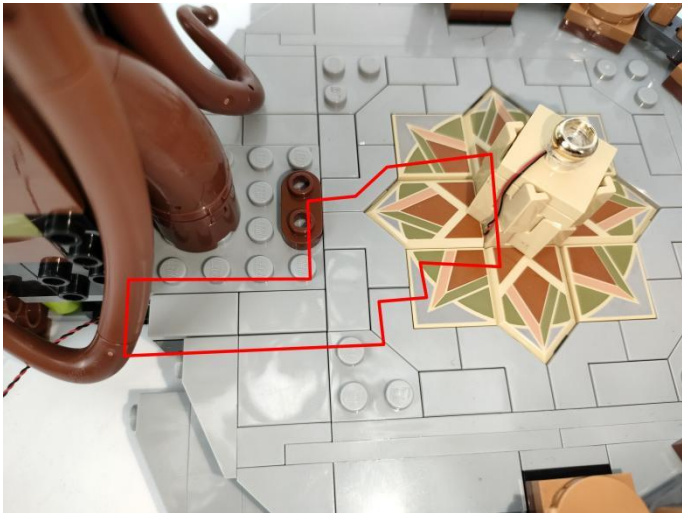
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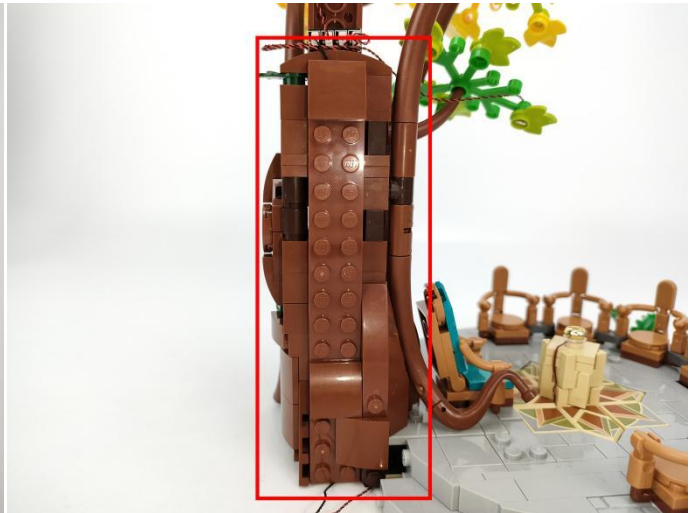
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182



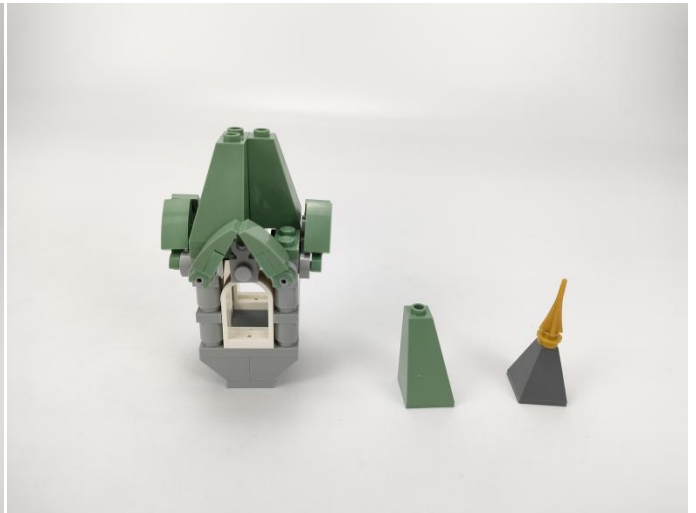
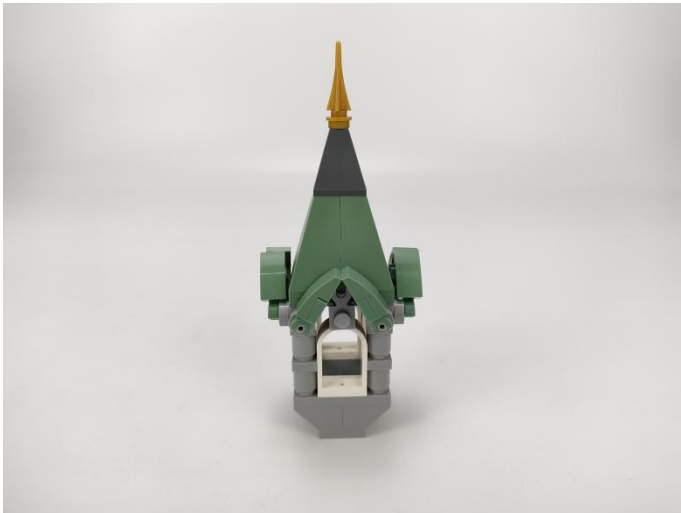
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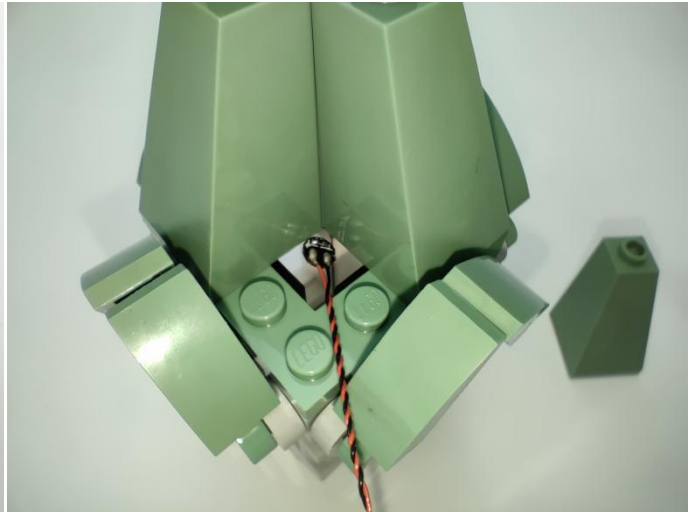
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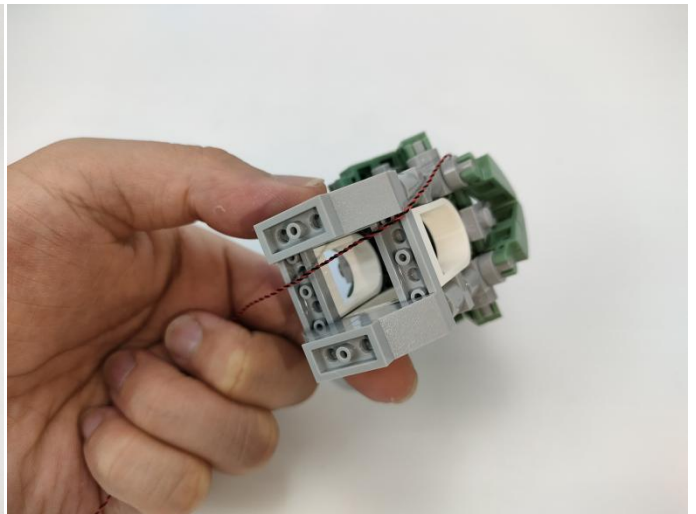
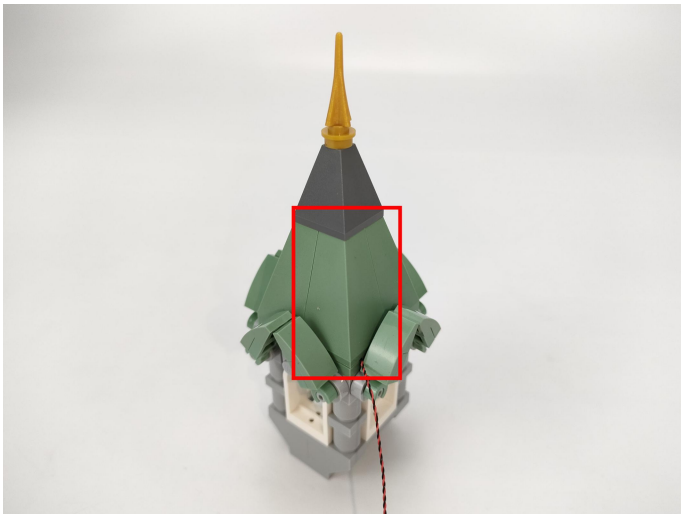
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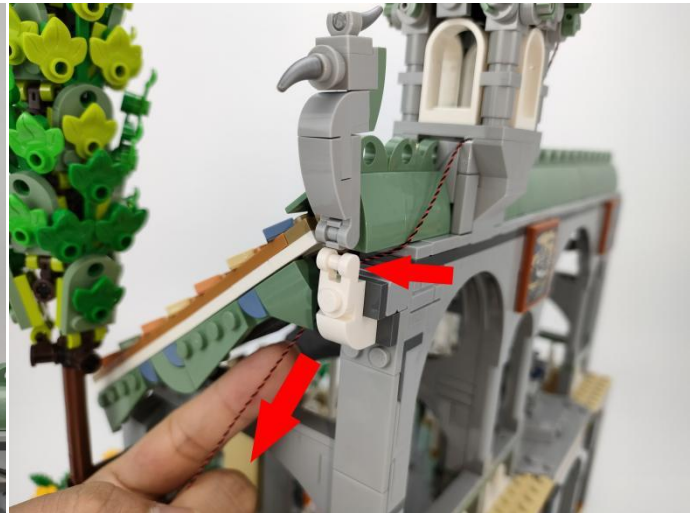
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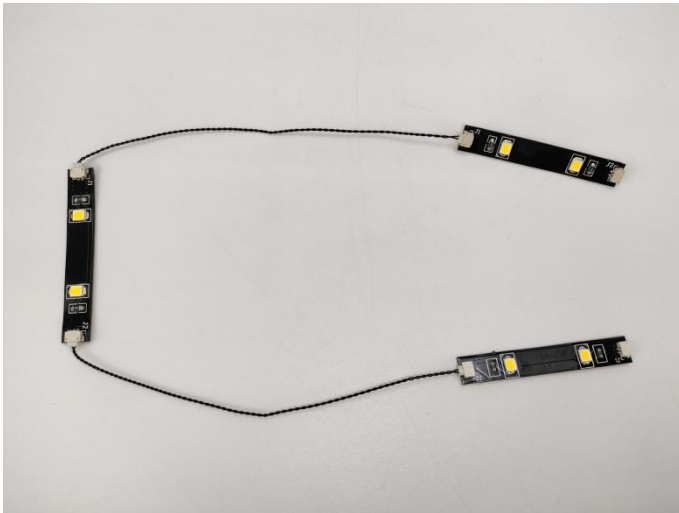


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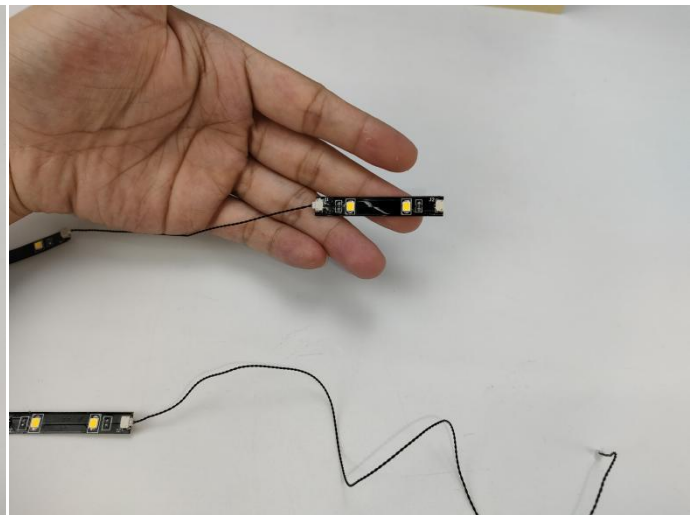
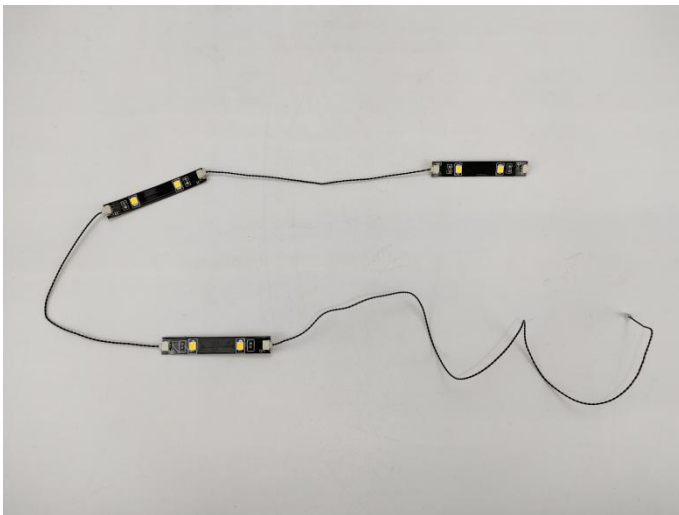




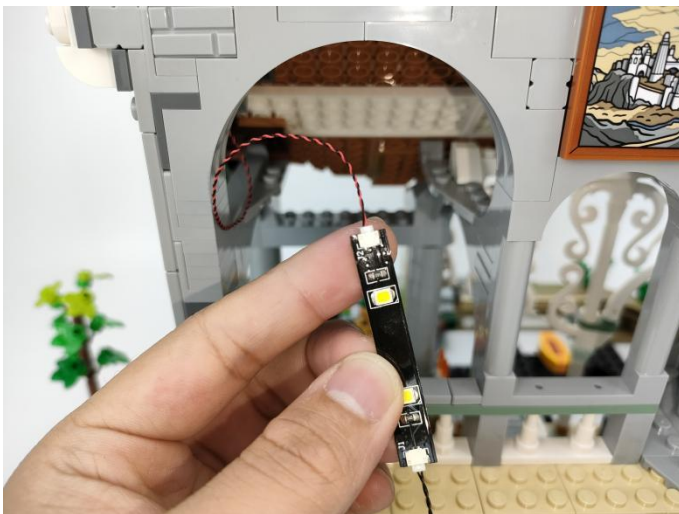
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191



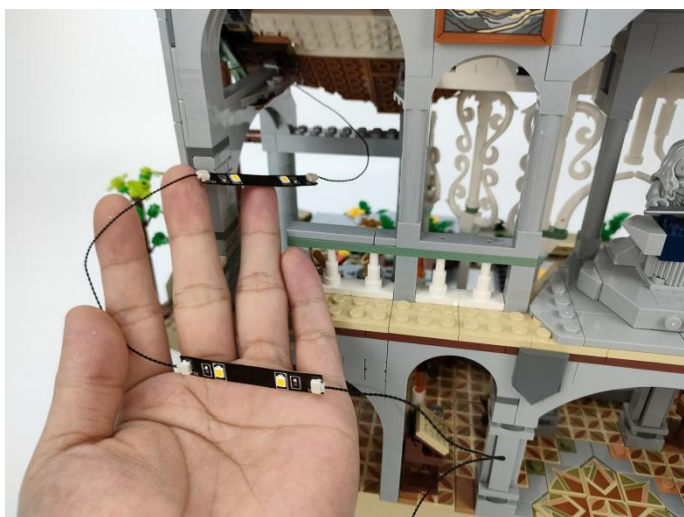
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194



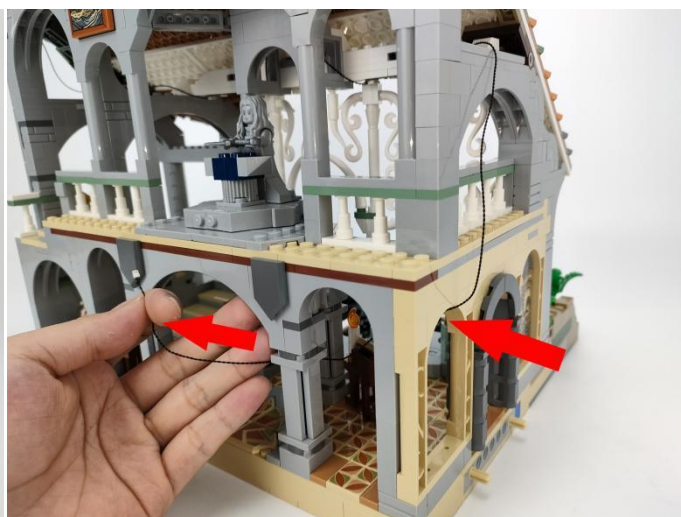
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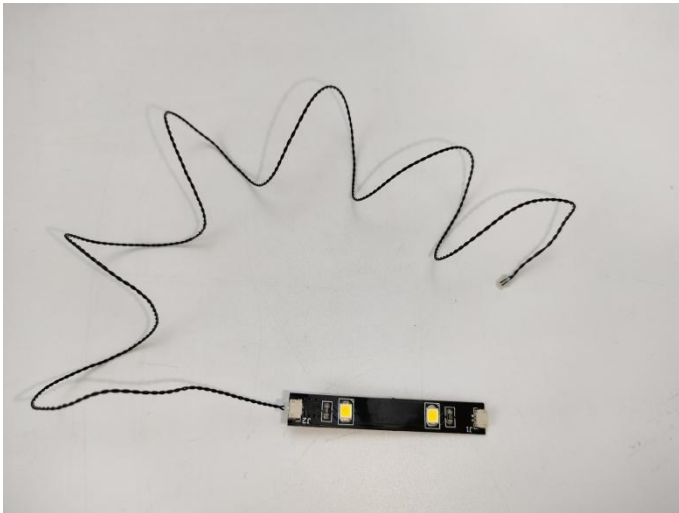
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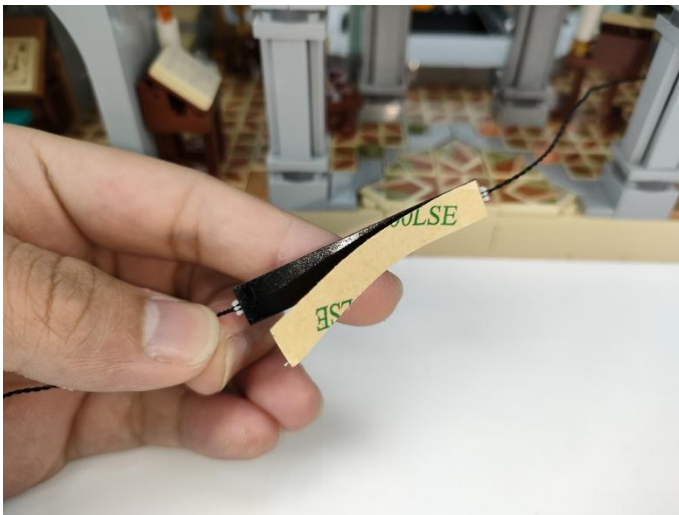
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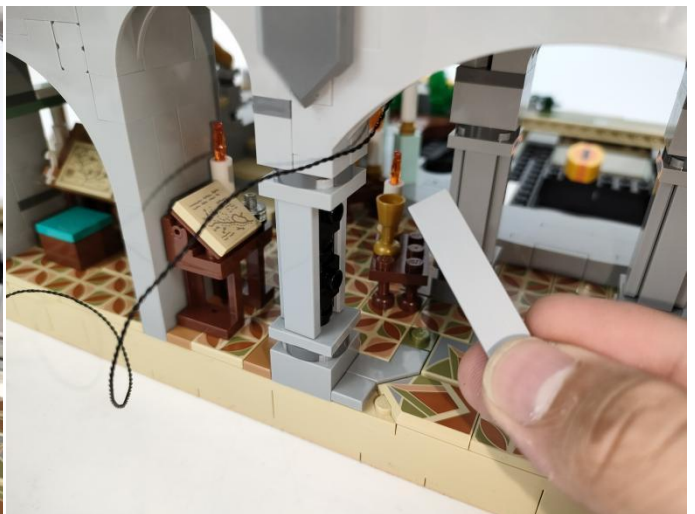
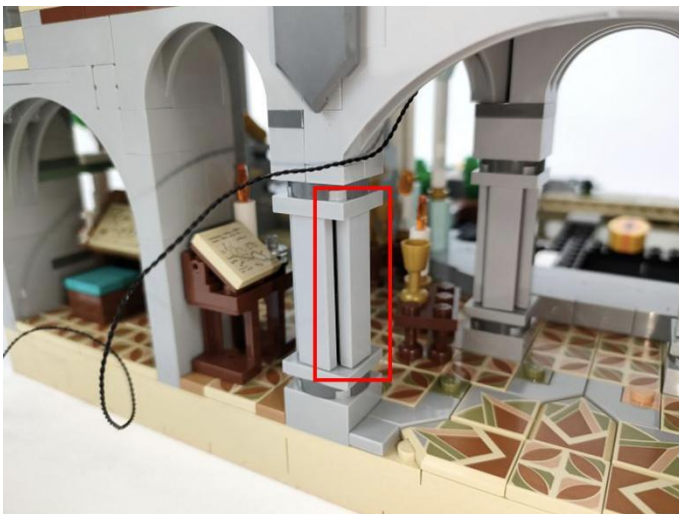
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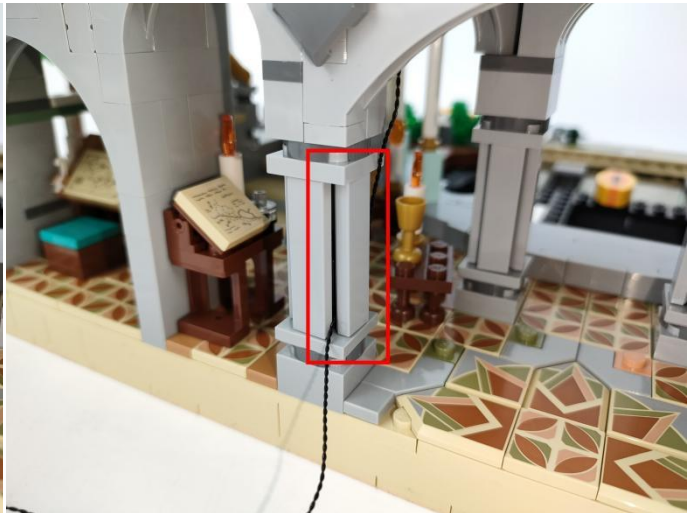
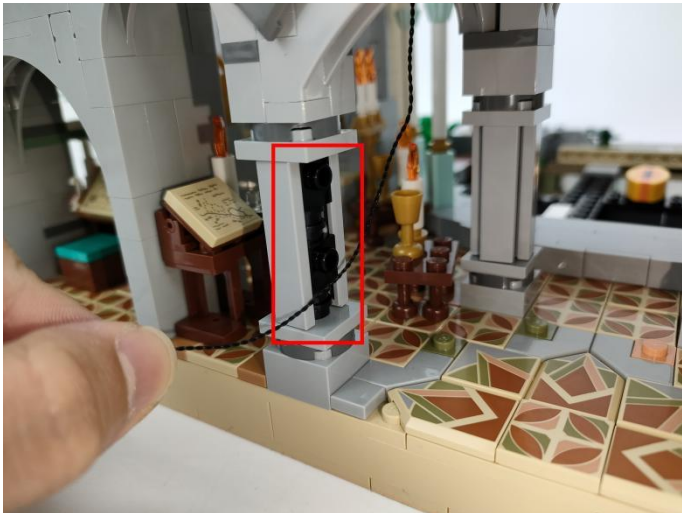
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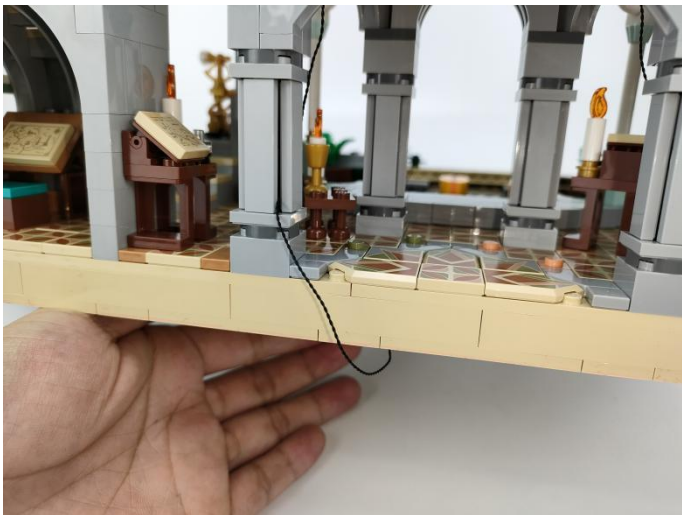
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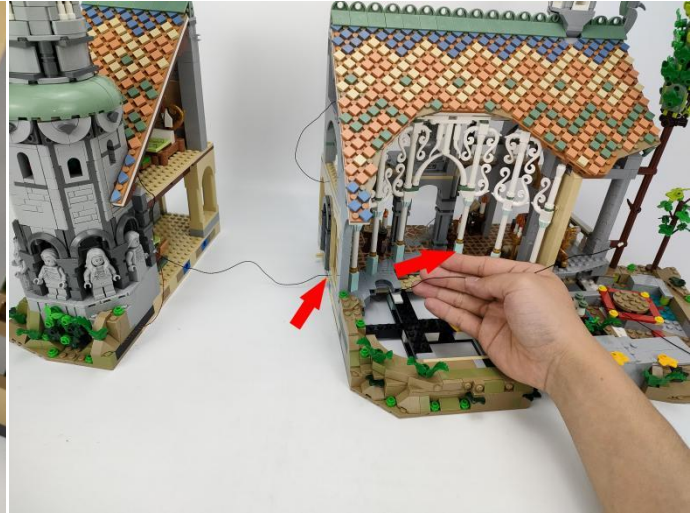
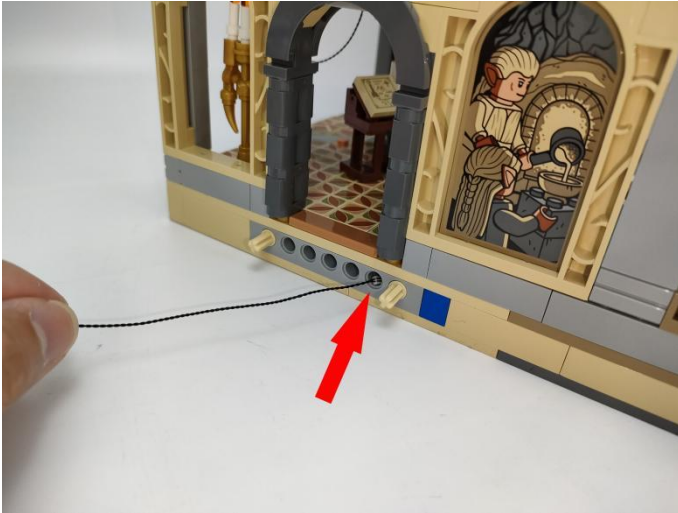
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204



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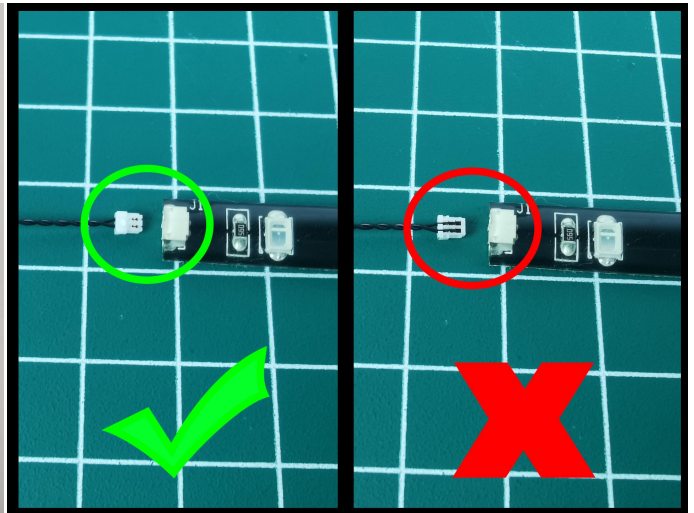
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# 207



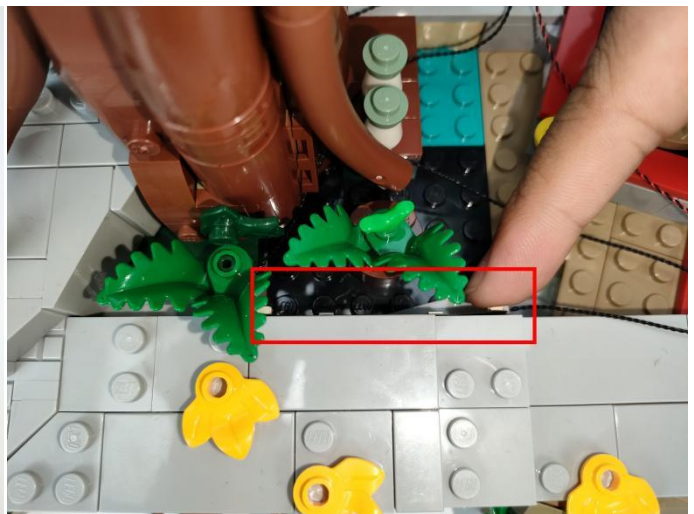
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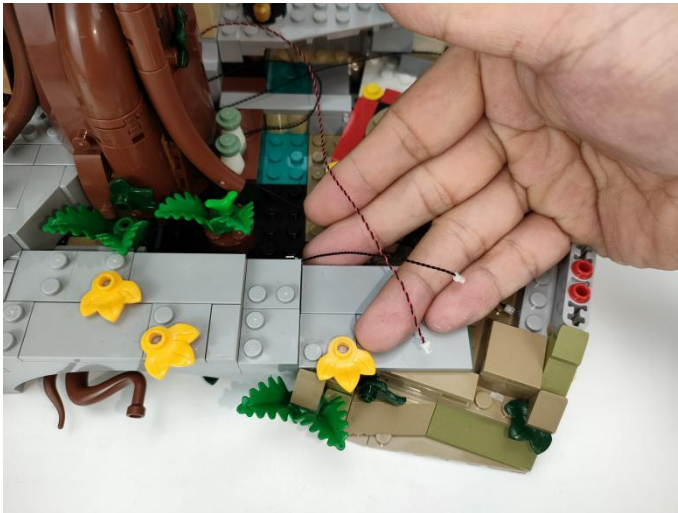
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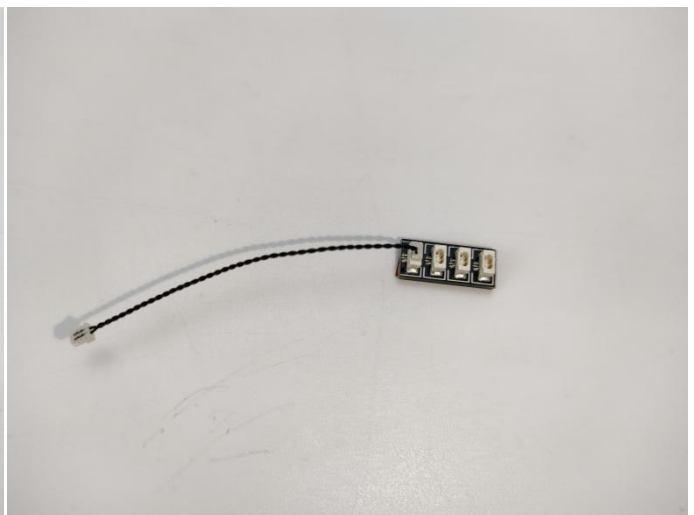
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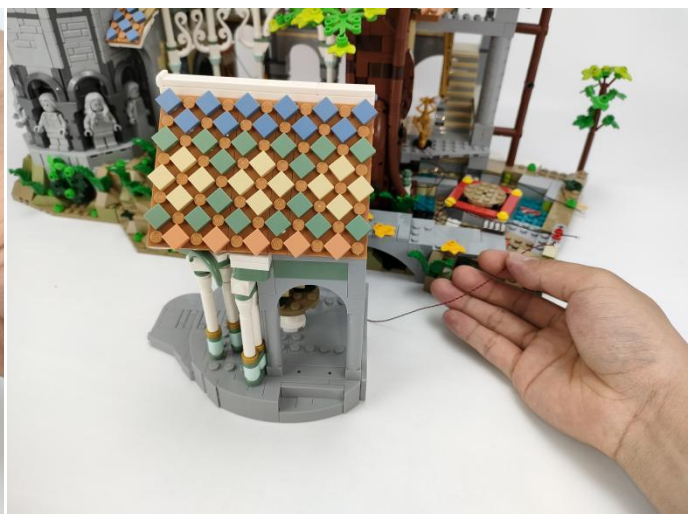
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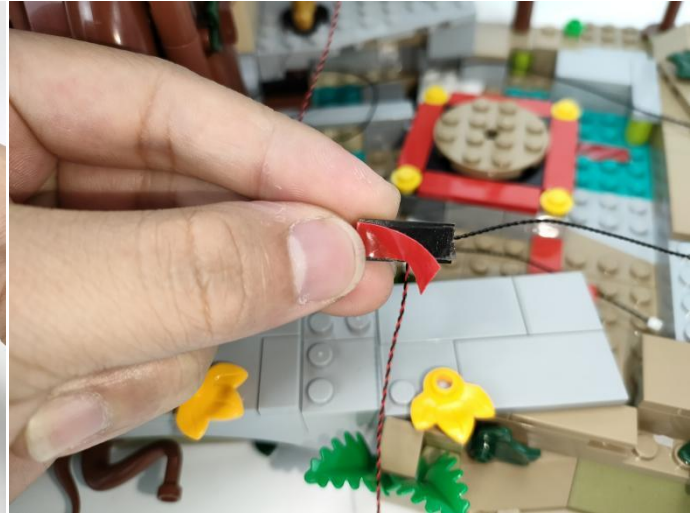


# 213





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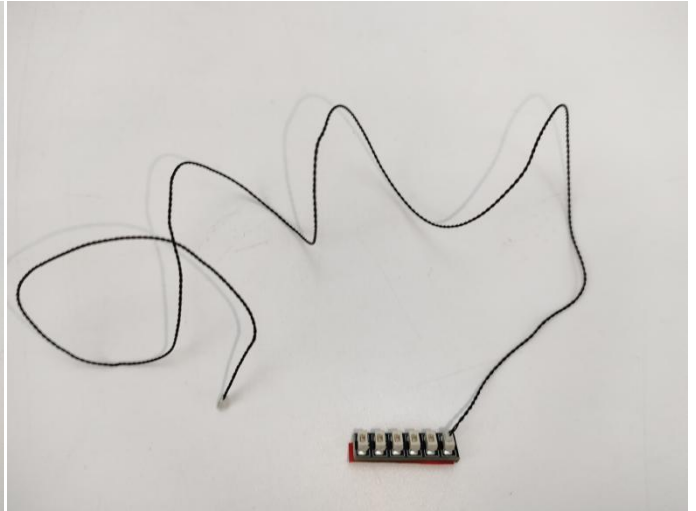
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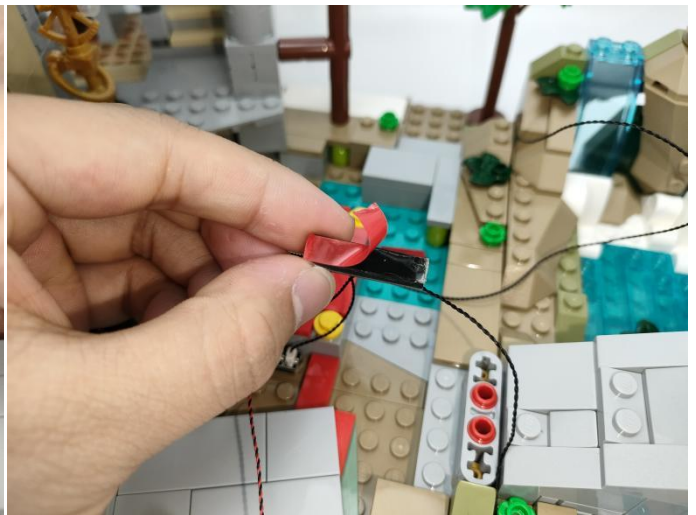
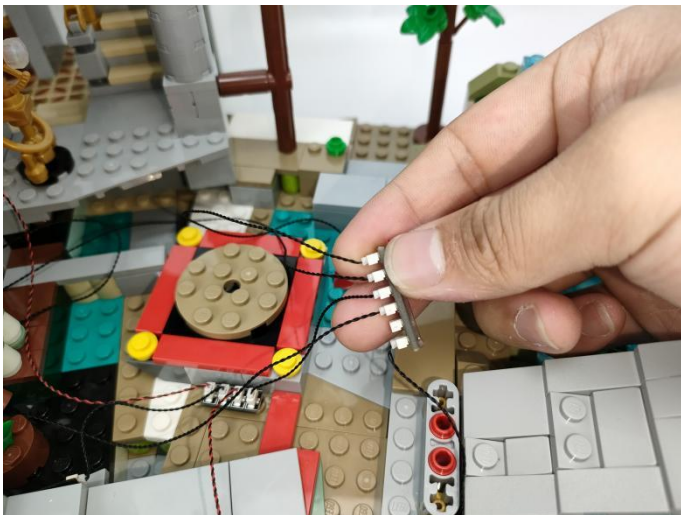
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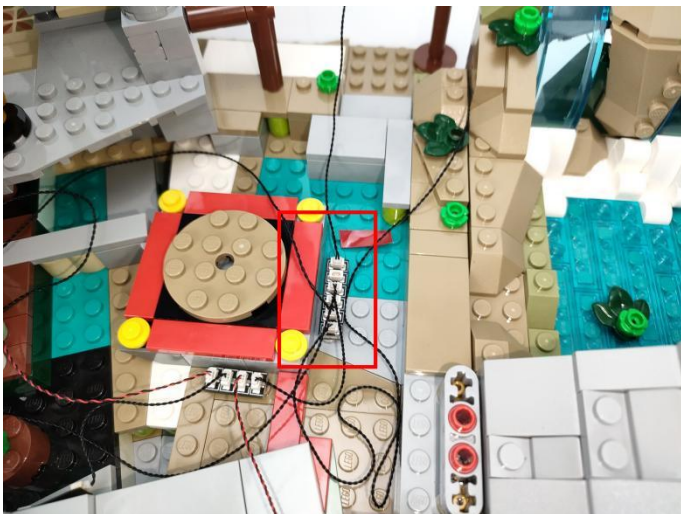
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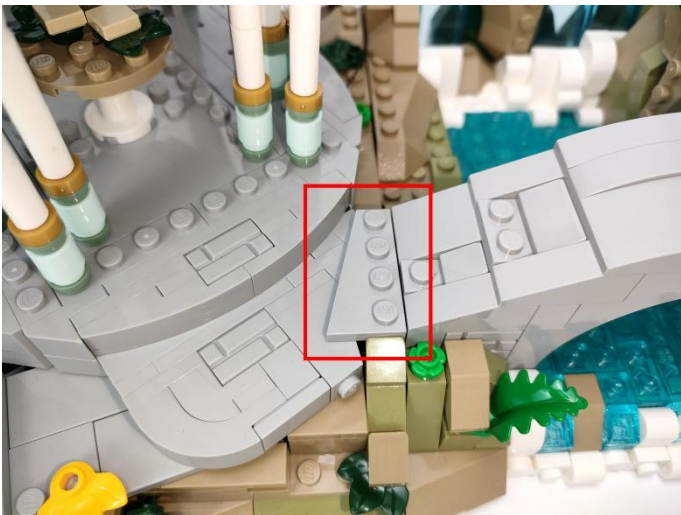
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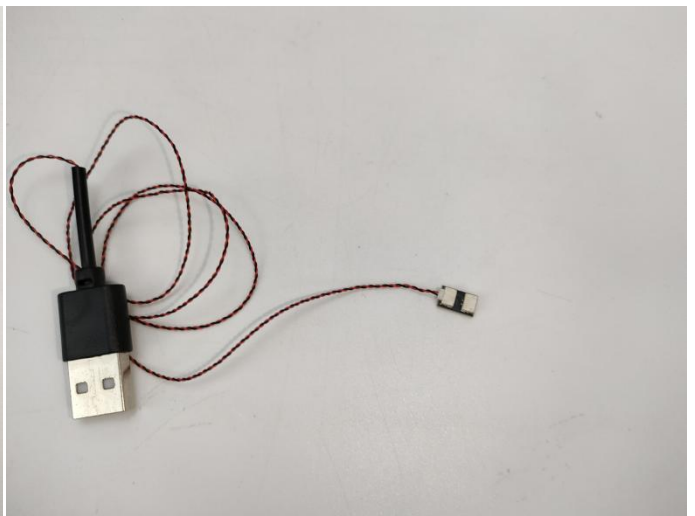
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**Good job, you've done all the installation steps, power it up and enjoy your work.**



**If it is necessary to change the power supply , prepare three AAA batteries, install them in the battery box, turn on the switch on the battery box, remove the plug of the USB Power Cable from the socket of the expansion board,plug the plug of the battery box to the same socket in the expansion board to power the suit as well.**

**THANKS**