# 21313 Ship in a Bottle P9804

- **P9804 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 "21313 P9804".**

- **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.**
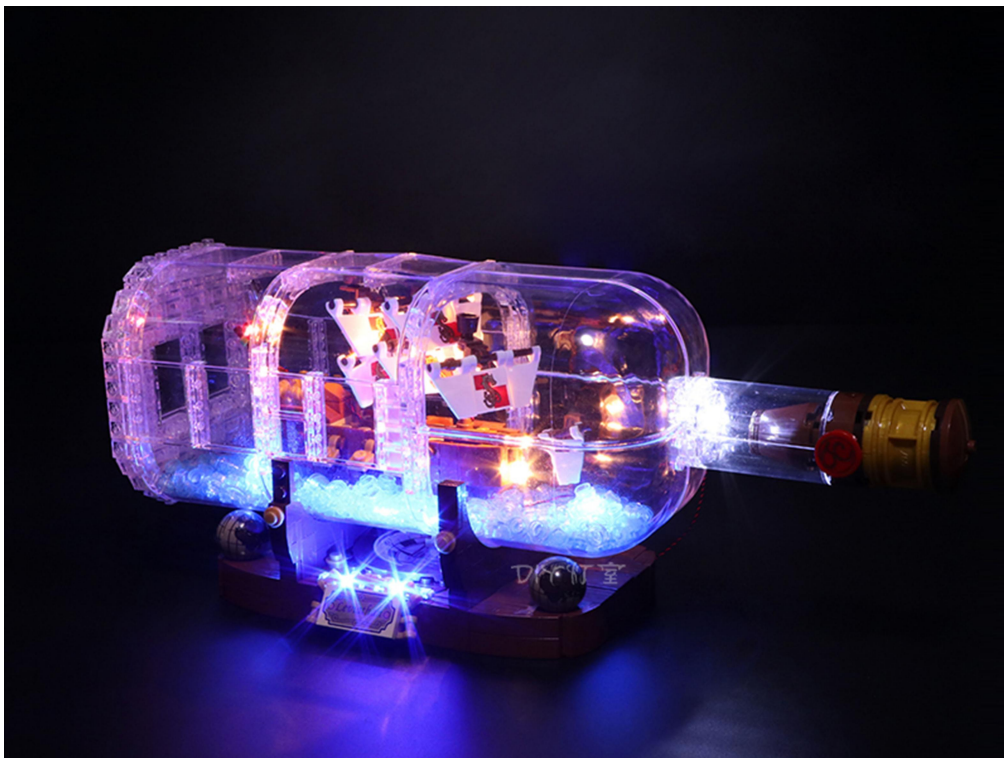
Strategies for the Installation

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 13 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	1
Bit Lights-15CM-White	Bit Lights-15CM-White	1
Bit Lights-15CM-Blue	Bit Lights-15CM-Blue	1
LED Strip Lights-Blue	LED Strip Lights-Blue	1
Expansion Board	12 Socket Expansion Board	1
AA Battery Box	AA Battery Box	1
Connecting Cables-5CM	Connecting Cables-5CM	1
Connecting Cables-15CM	Connecting Cables-15CM	1
Bit Lights-30CM-Blue	Bit Lights-30CM-Blue	1
Bit Lights-30CM-Warm White	Bit Lights-30CM-Warm White	2
Flashing Bit Lights-30CM-Red	Flashing Bit Lights-30CM-Red	1
Multi-Effects Board	Multi-Effects Board	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.
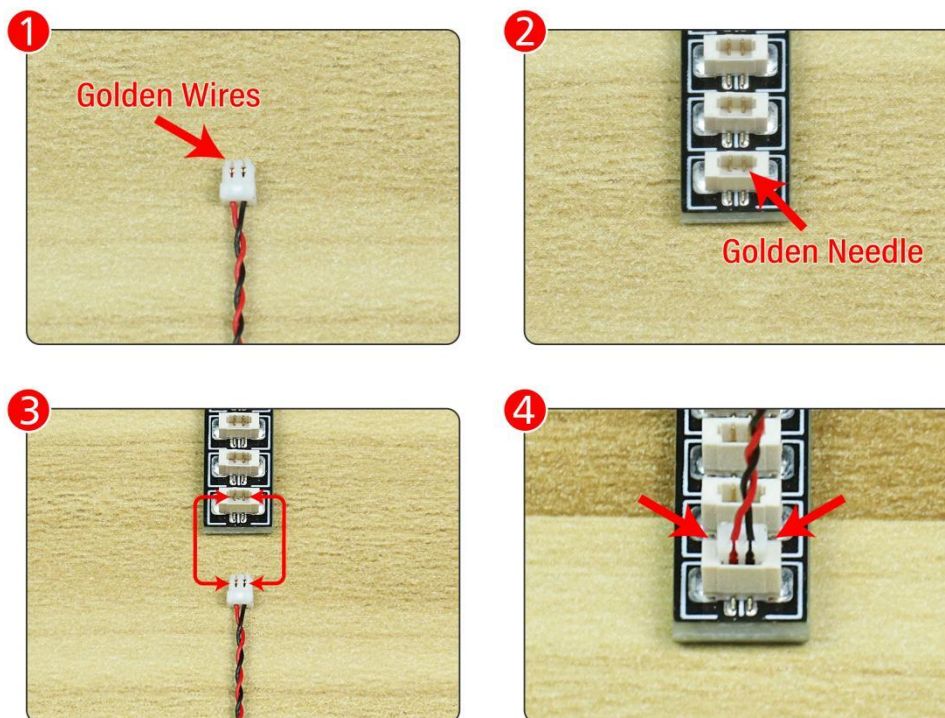
All our connections between plug and socket are all the same as shown above. So for any such structure with plug and socket, please pay attention to the golden wire of the plug and the golden needle of the socket, they must be touched together.

The connection method between the USB Power Cord and Expansion Boards is as follows:
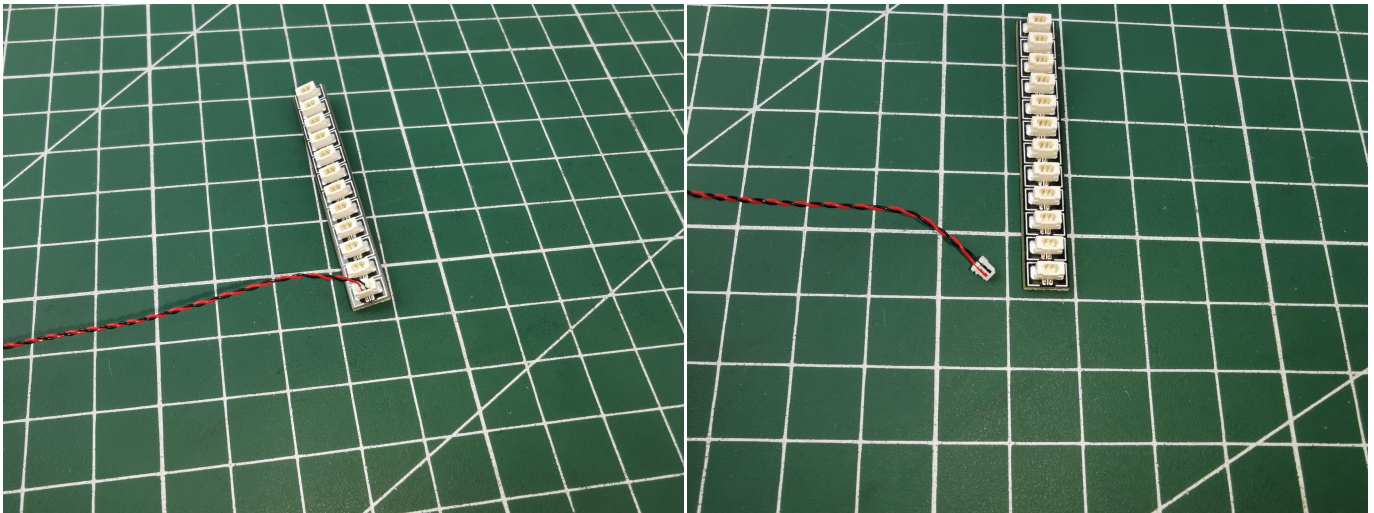
The USB Power Cord can be powered by phone chargers, power banks,etc.

USB connectors to connect devices

Power Bank

Phone Charger

USB Socket

USB Power Cable

With USB to interface AA battery box

With USB to interface AAA battery box
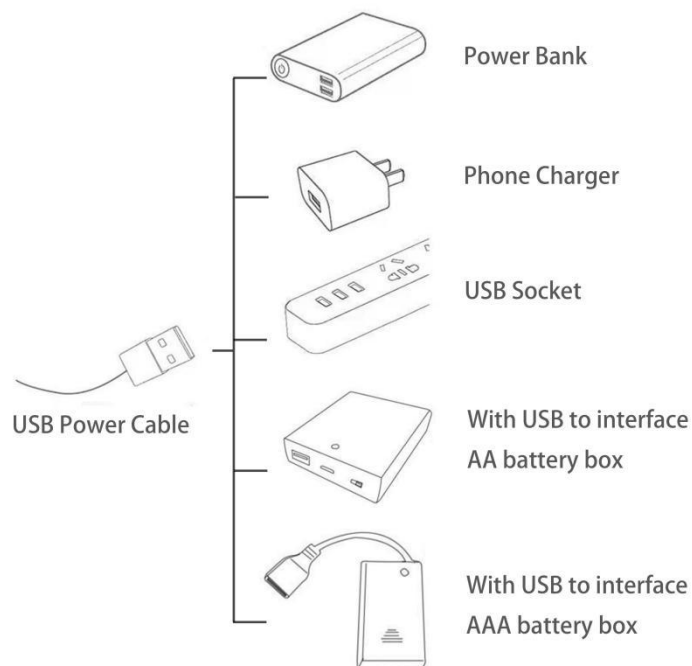
This instruction will use the power bank as power supply . The test structure is shown as follow. All lamp in this set will be tested by this structure.

when we test "Bit Lights-15CM-Warm White" particles,Take out the bag labelled "Bit Lights-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.
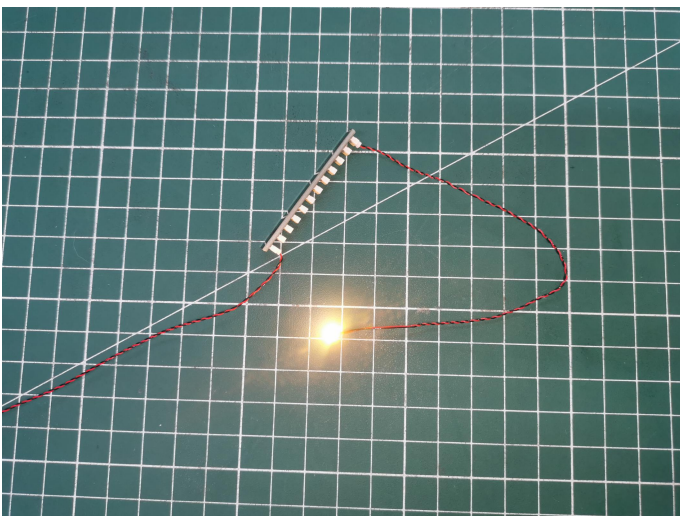
Test each lamp according to this method. It should be noted that after the test, the lamp must be returned to the corresponding bag to avoid confusion of types.

The components needs to be tested in this set is 1*Bit Lights-15CM-White,1*Bit Lights-15CM-Blue,1*LED Strip Lights-Blue,1*Bit Lights-30CM-Blue,2*Bit Lights-30CM-Warm White,1*Flashing Bit Lights-30CM-Red.

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

1.Open the bottle, take out the boat, and take two 30cm warm white dot lights.
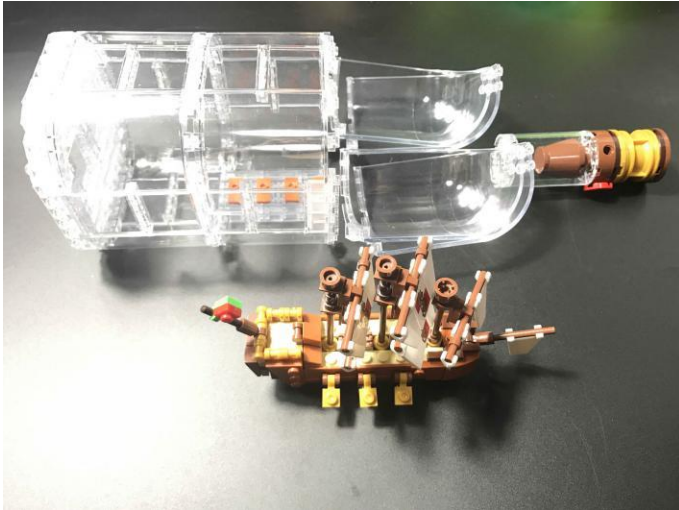
2.Remove the first mast and disconnect the mast
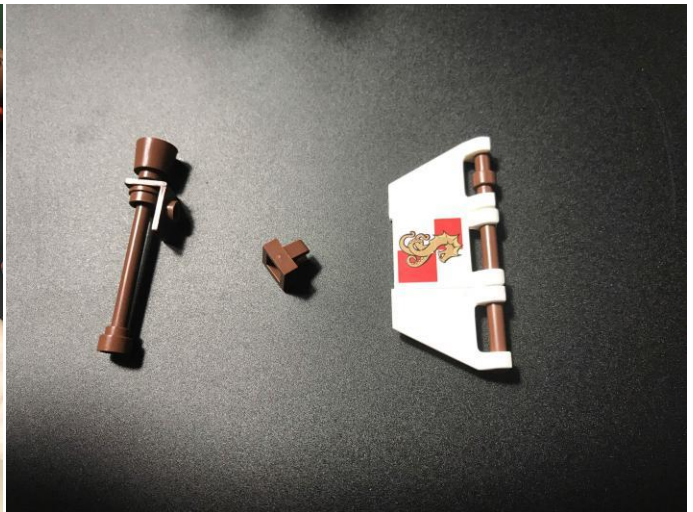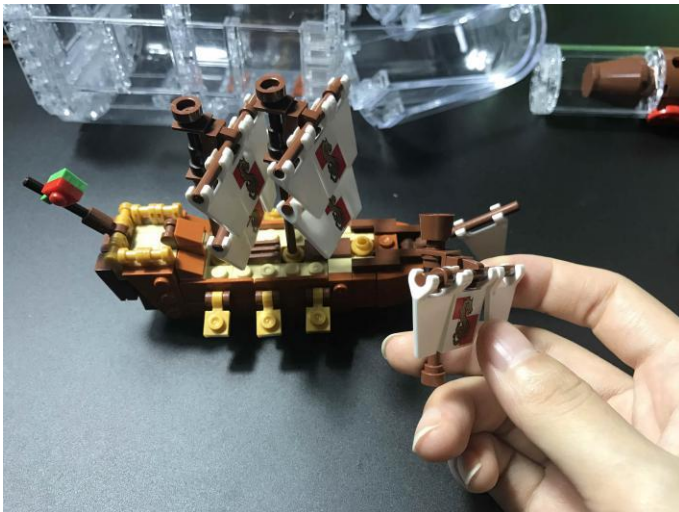
3.Take a warm white dot light, and wind the light end as shown on the sail, and fasten it with the top plate (you can also use an adhesive square to fix the light on the white flag, according to personal preference).
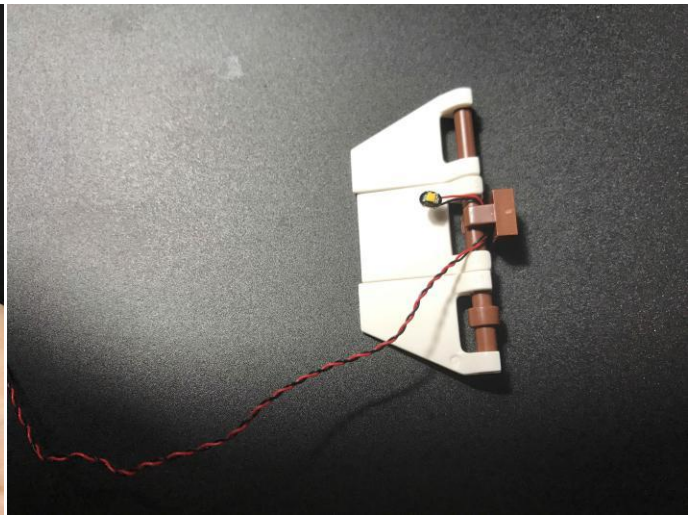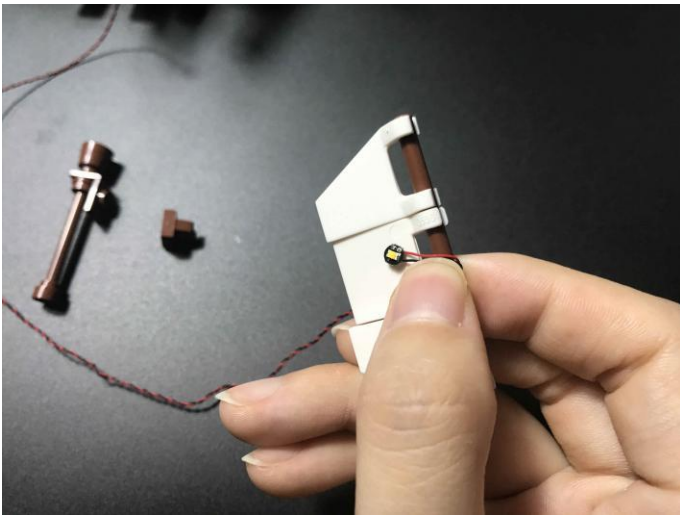
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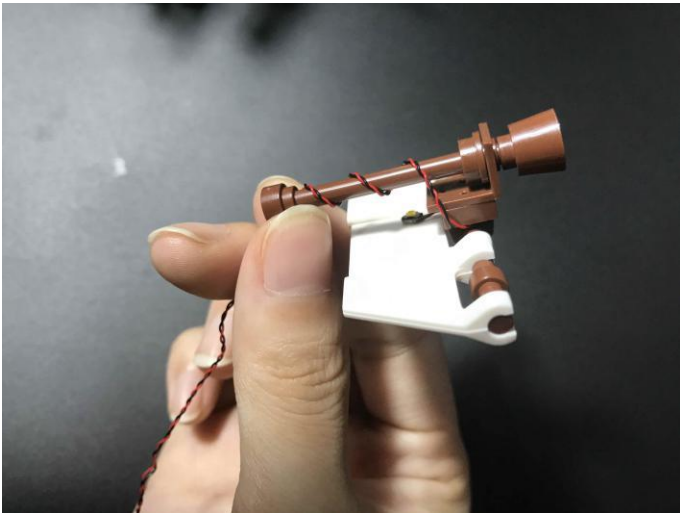
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6.Take one 15cm warm white dot light and transparent white round piece.

Tips

The plate without slit:

The plate with slit:

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

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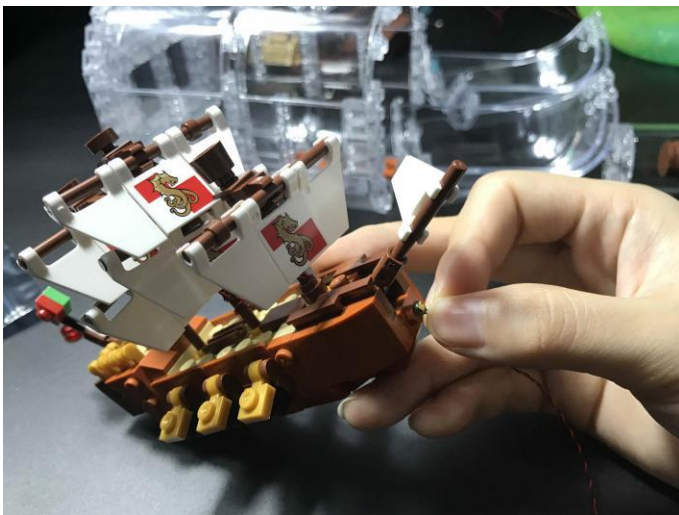
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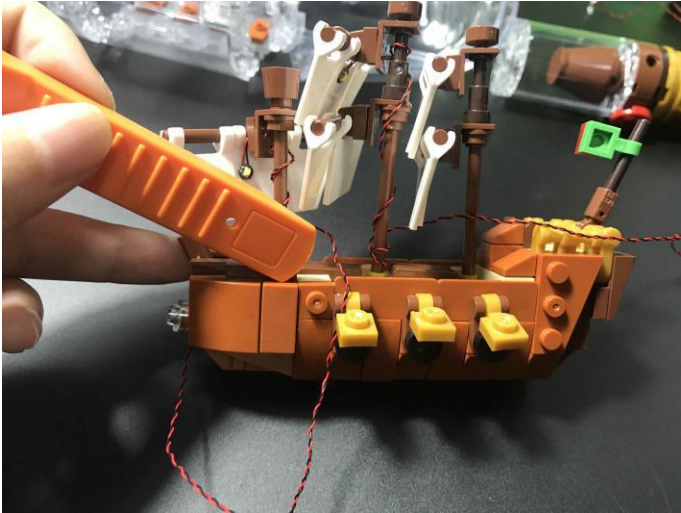
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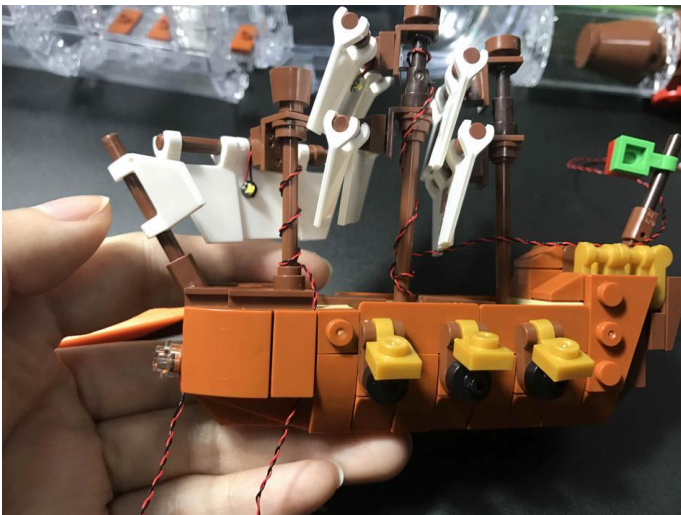
11. Remove the pieces from the side of the ship, as shown below.
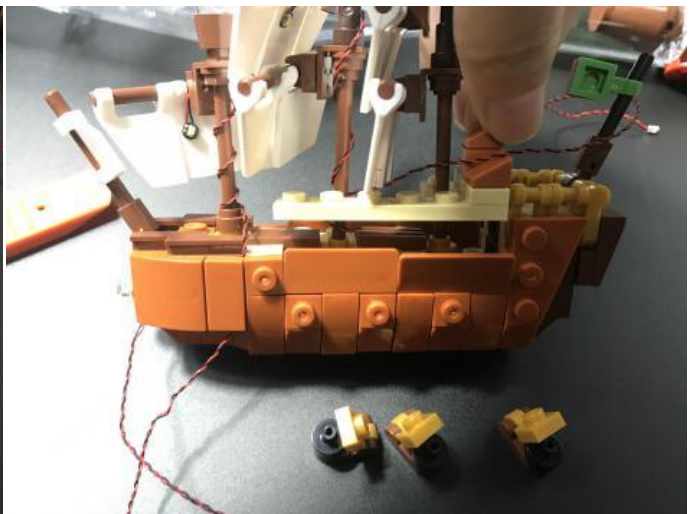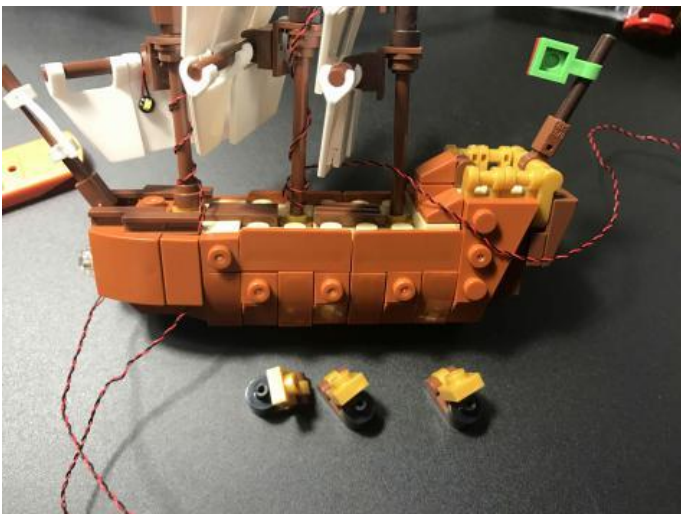
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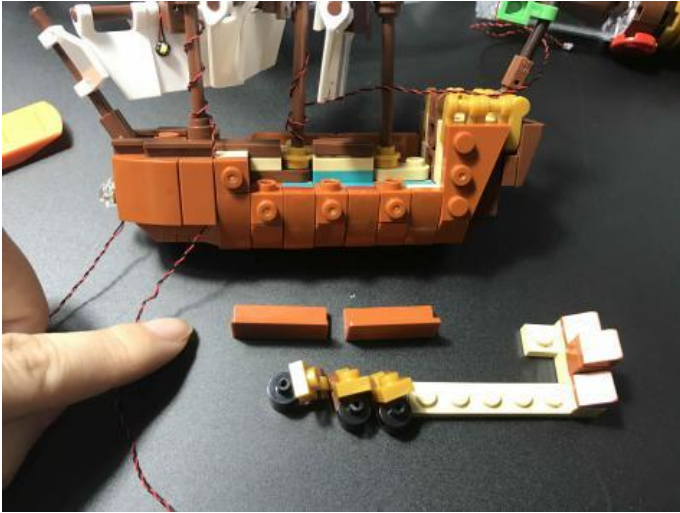
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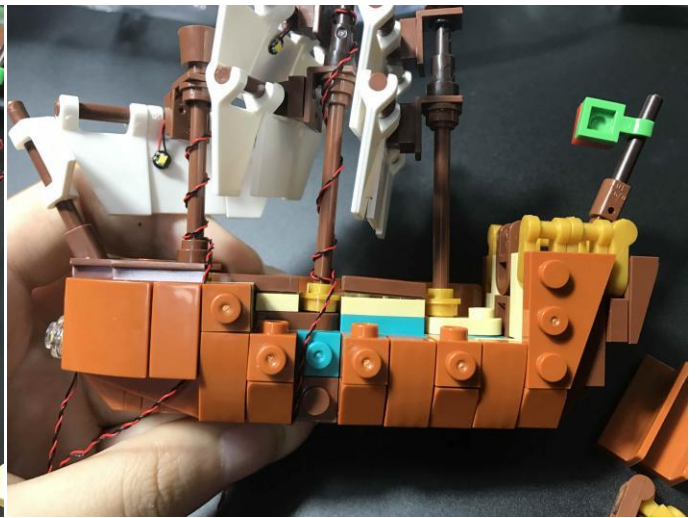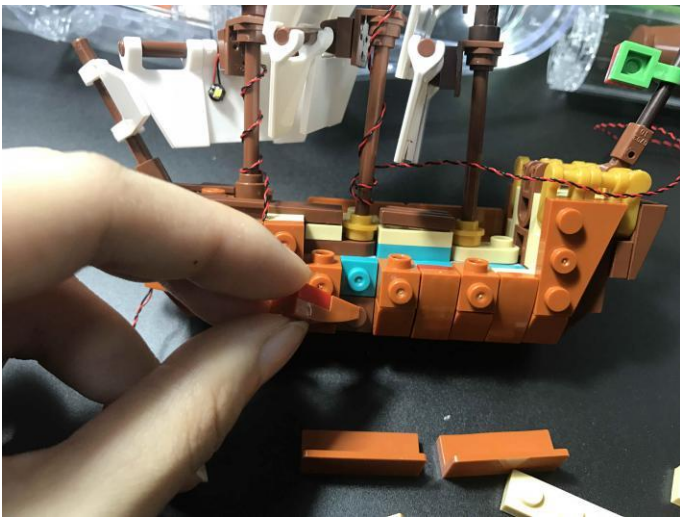
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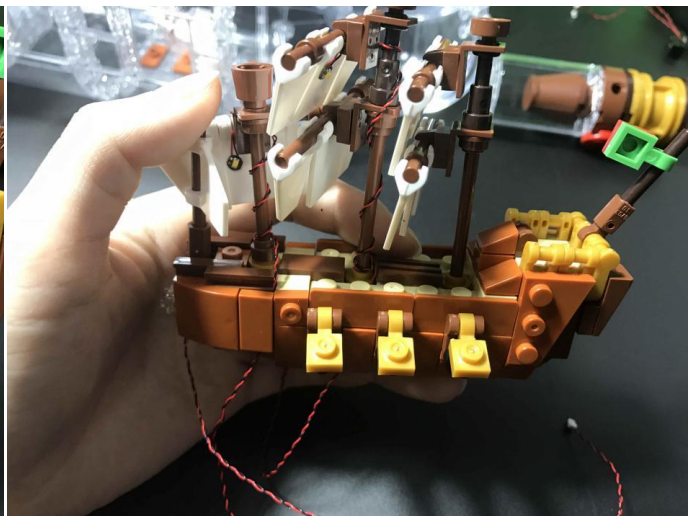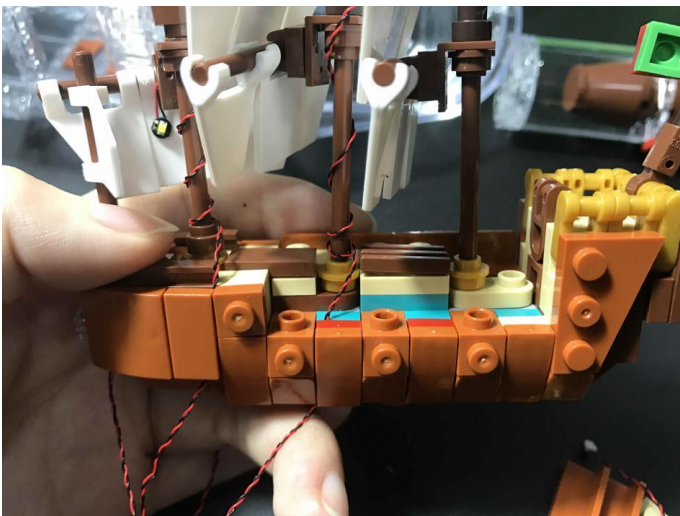
15.Remove the red and green plates from the stern, take a 30cm red flashing dot light and a square transparent red piece (because there is only a circle one at hand, I will use the circle one instead).
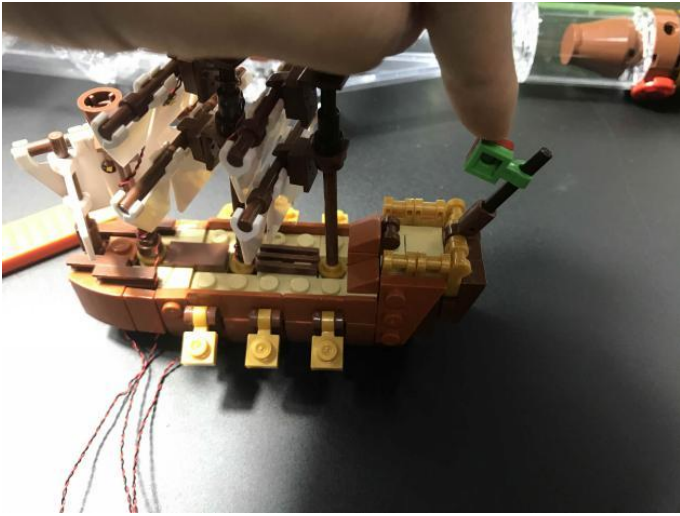
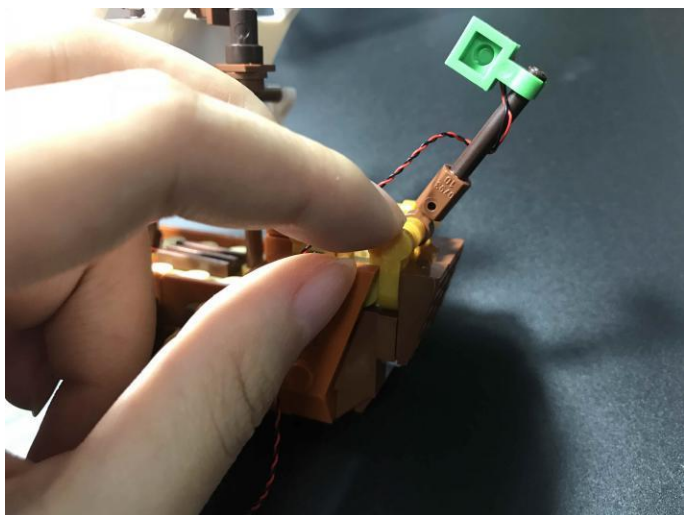**16**.Place the dot light with the light side up and fix it on the green blocks with red transparent pieces.
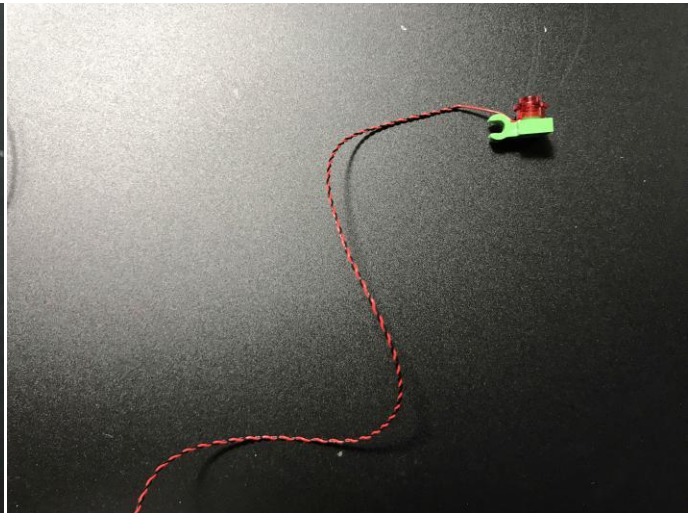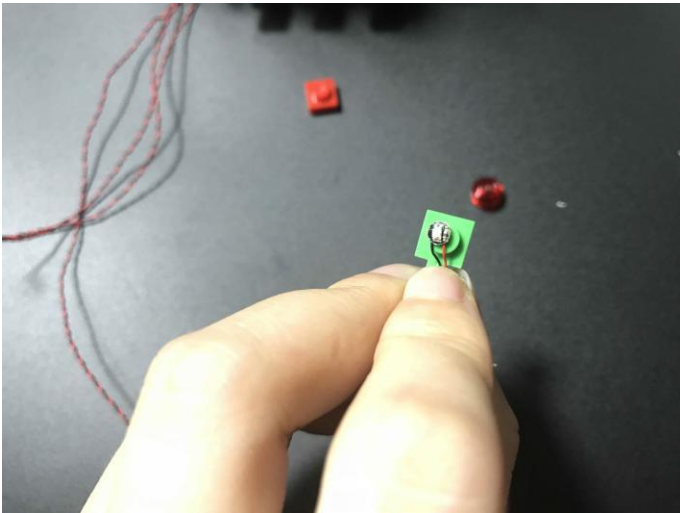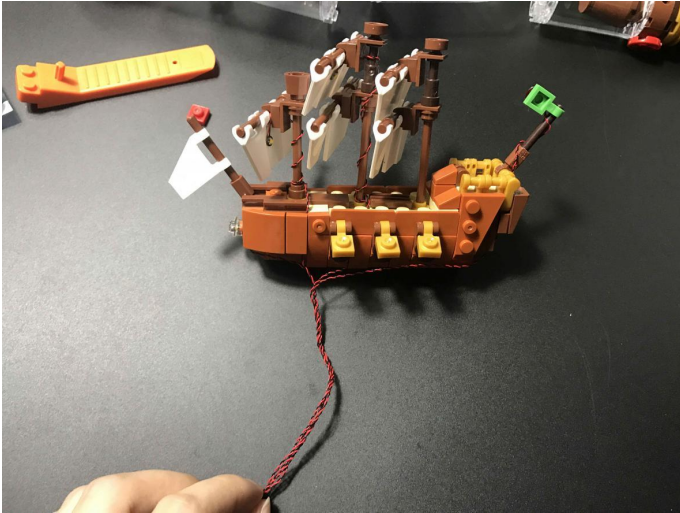
17.Install it back to the stern.
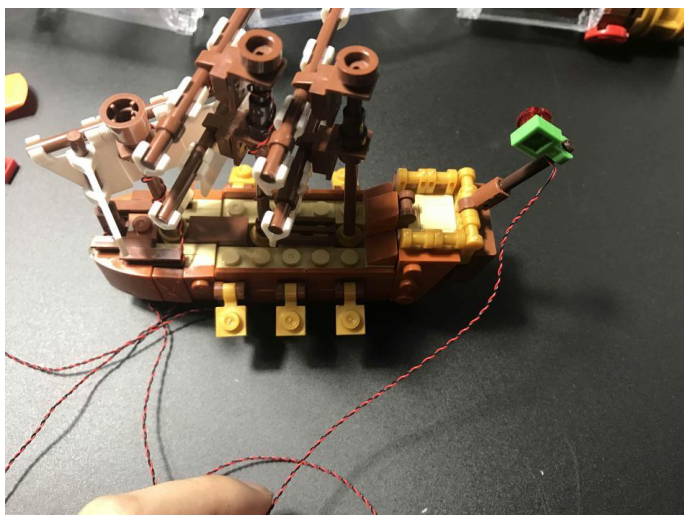
18.Wrap the cable around the mast and press it under the yellow-brown piece.
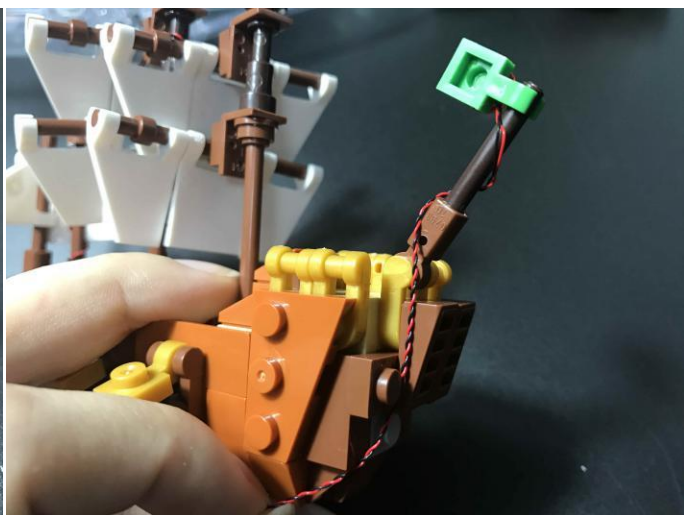
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20.Now screw four cables into one strand.

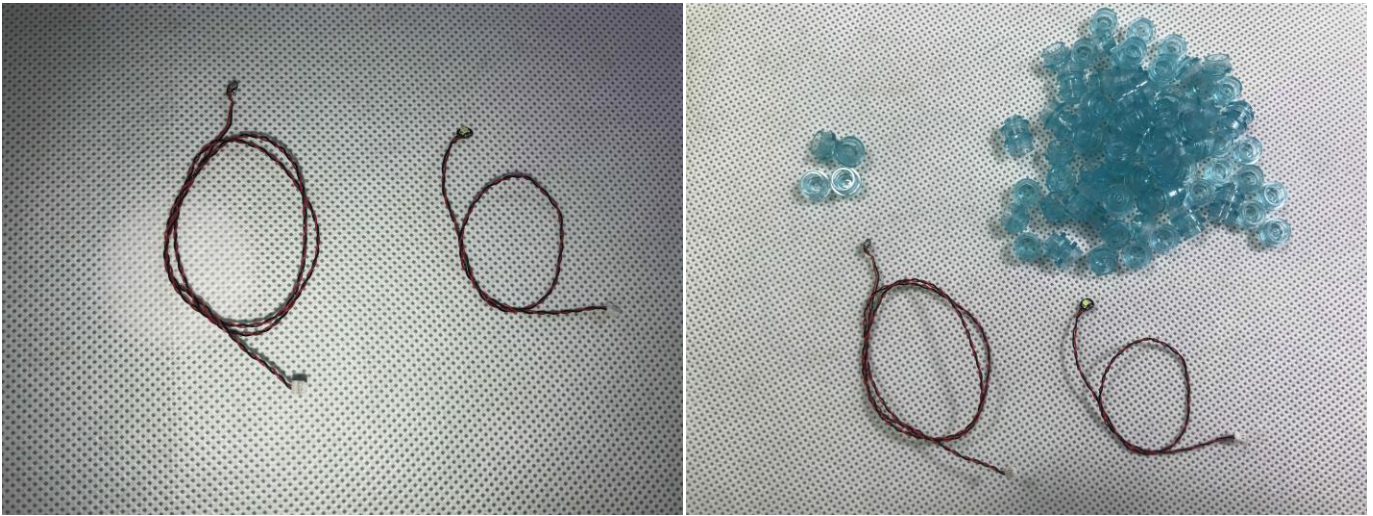# 21.Take a 12-port expansion board and battery pack and install the battery.

Connect the four plugs of the cables to the 12-port expansion board, and connect the power. Turn on the switch, let's see the effect!
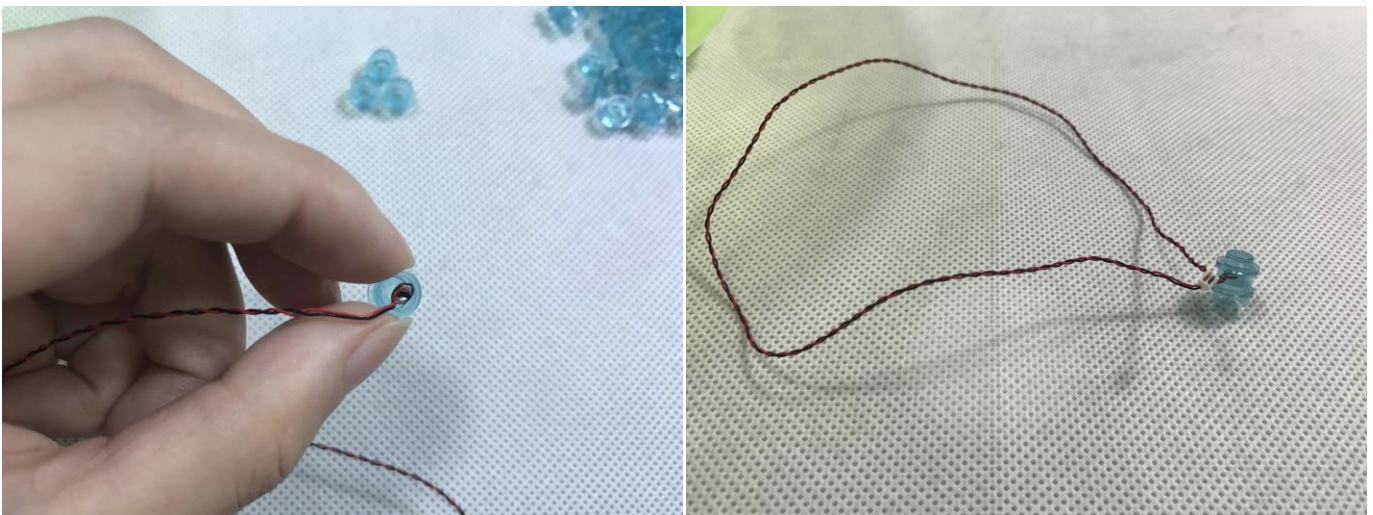
22. Take one 30cm and one 15cm blue dot lights, and take four transparent blue pieces.

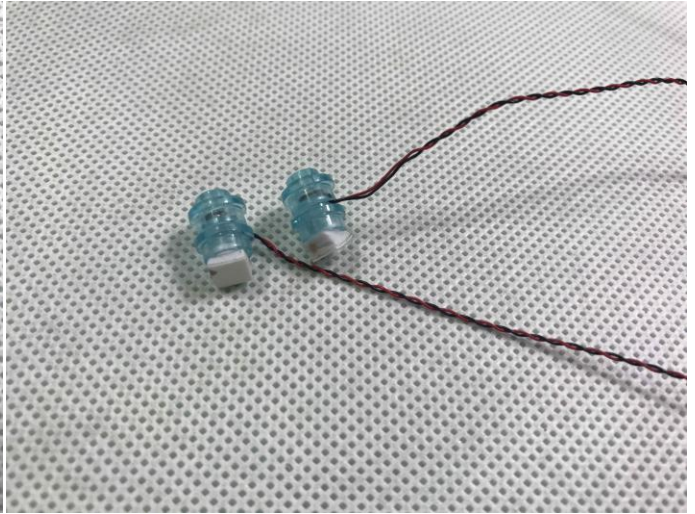**23.**Take one of the blue lights and fasten the light end with 2 transparent pieces.

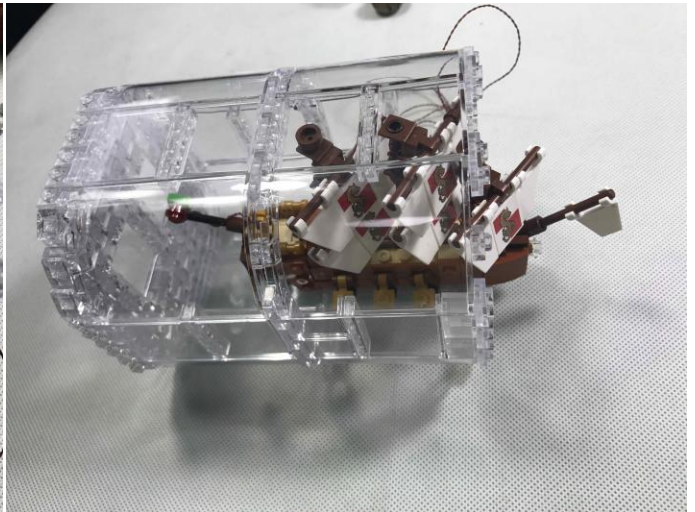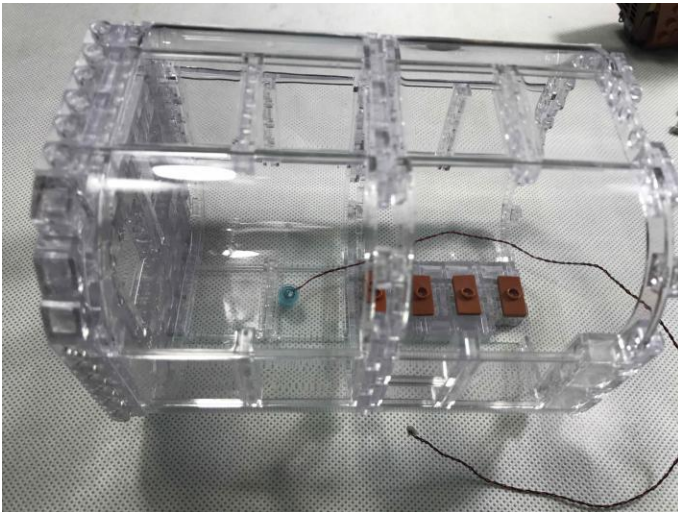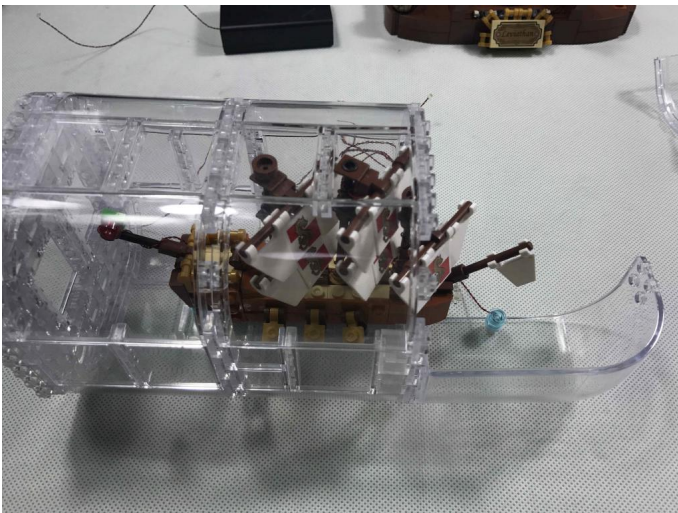**24.**Repeat the operation and install another blue dot light.

25. Take 2 adhesive squares and stick them to the bottom of 2 transparent parts.
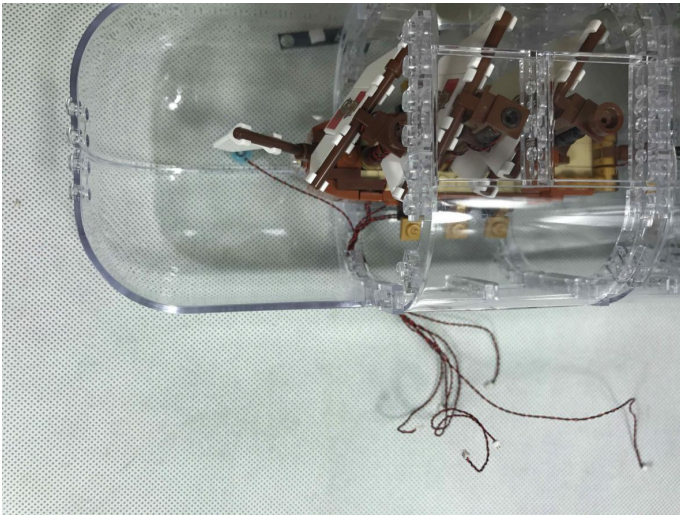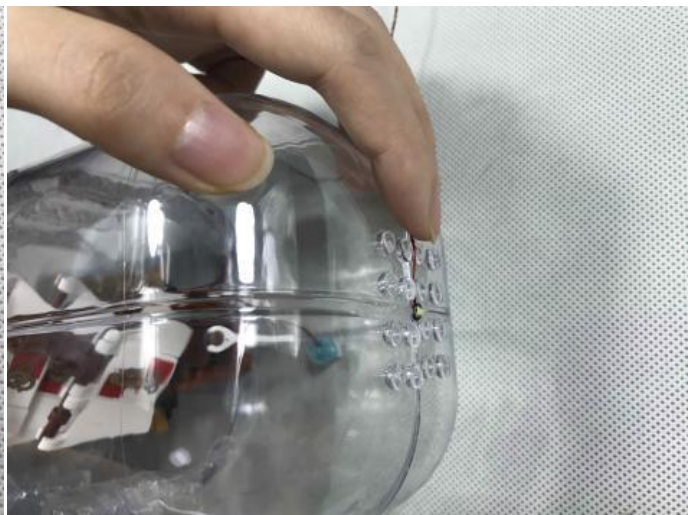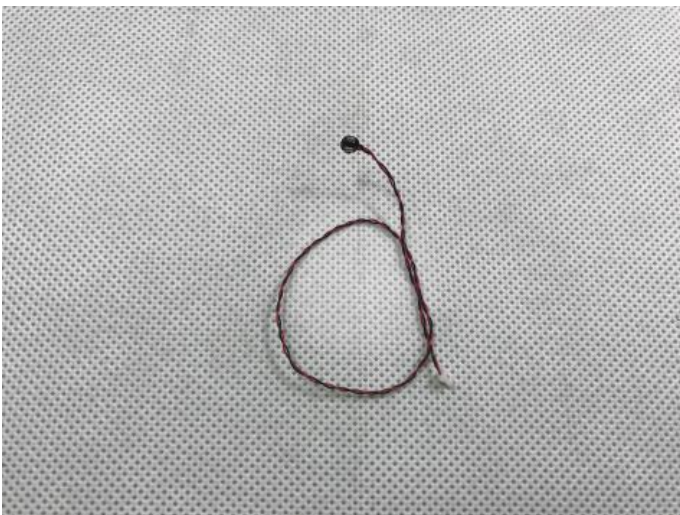

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28. Install the front end of the bottle and clamp the cable into the gap of the bottle.

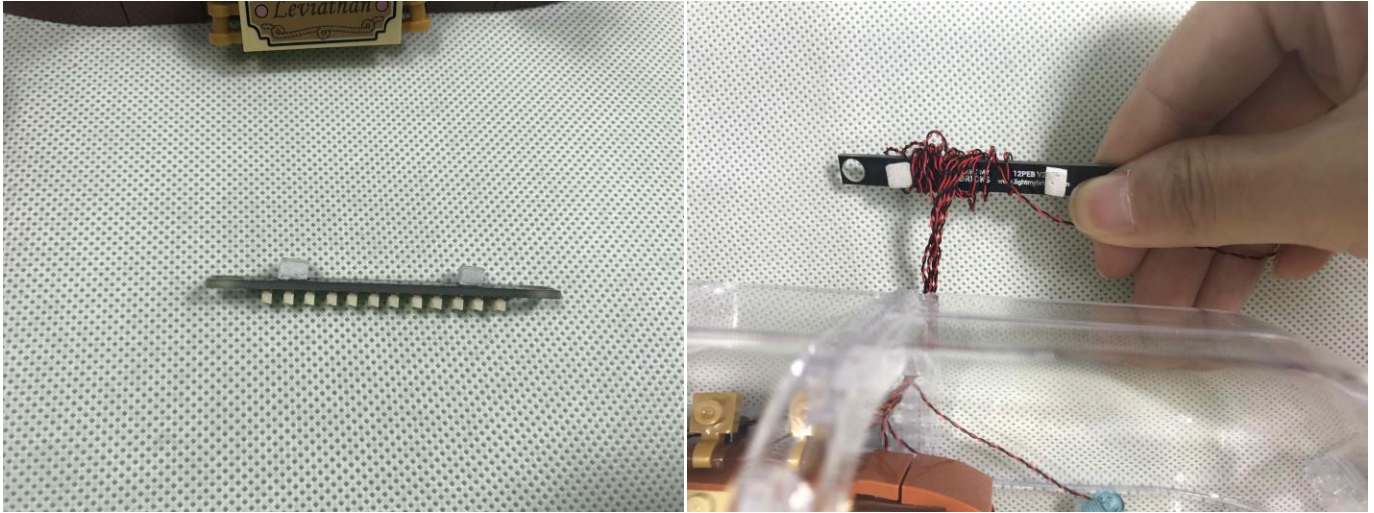**29.**Take a 15cm white dot light and fix the light end with the bottle head.

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31. Take 2 adhesive squares and stick them on both ends of the 12-port expansion board. According to the slack of the cable, wrap the cable properly on the board, connect the plug to the board, and remember the position of the blue light plug (or not connect first).
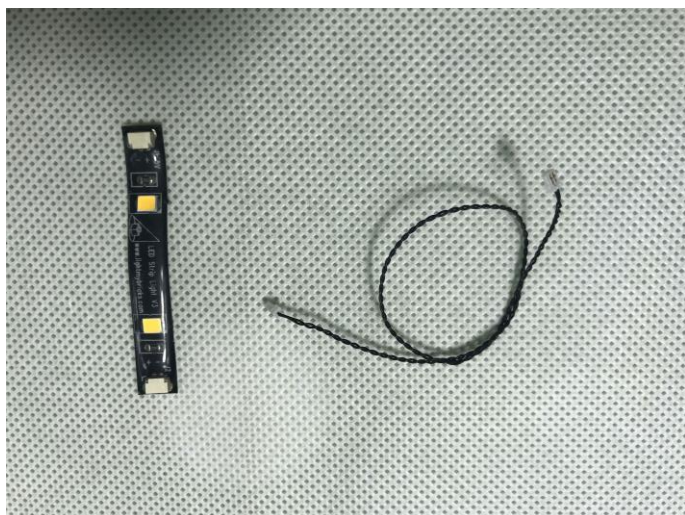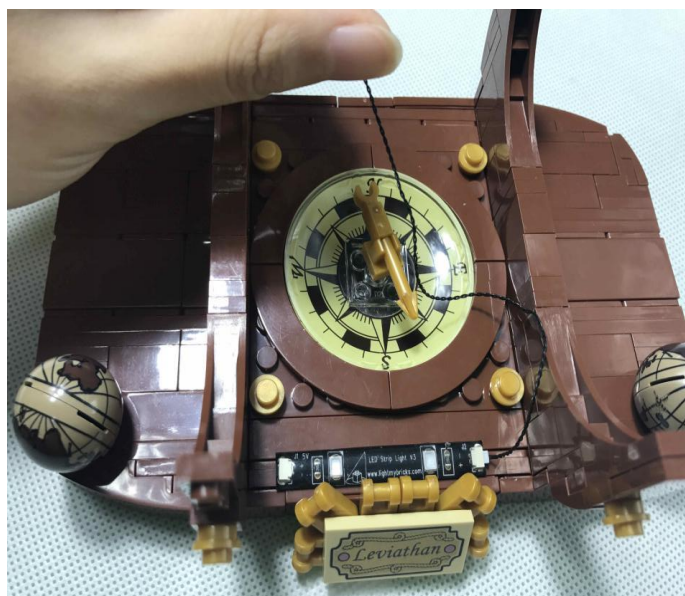

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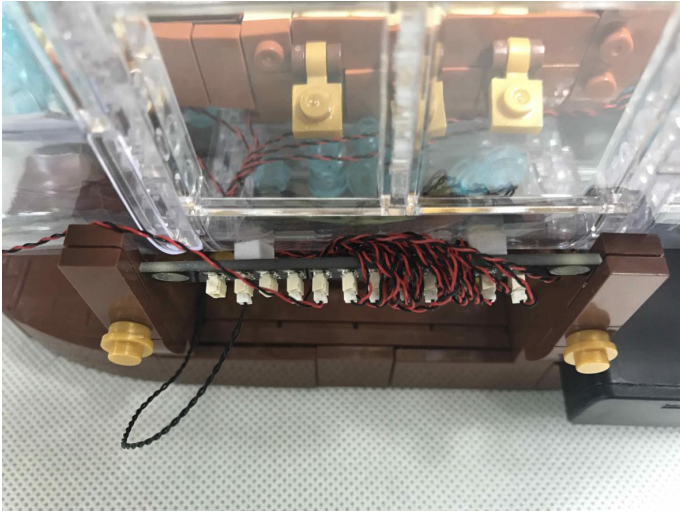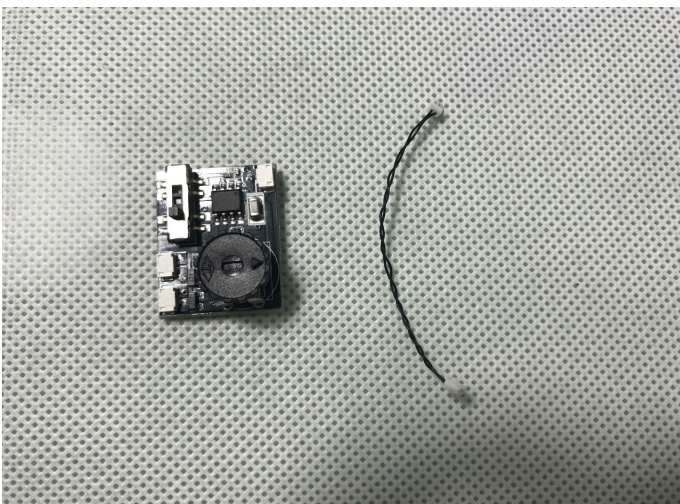**33.**Then take a blue strip light, a 15cm cable, and connect it.
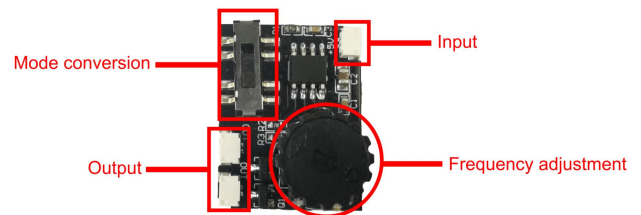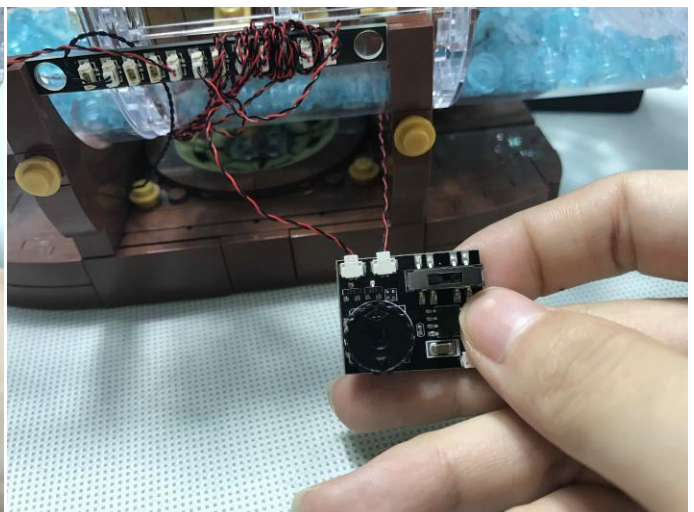
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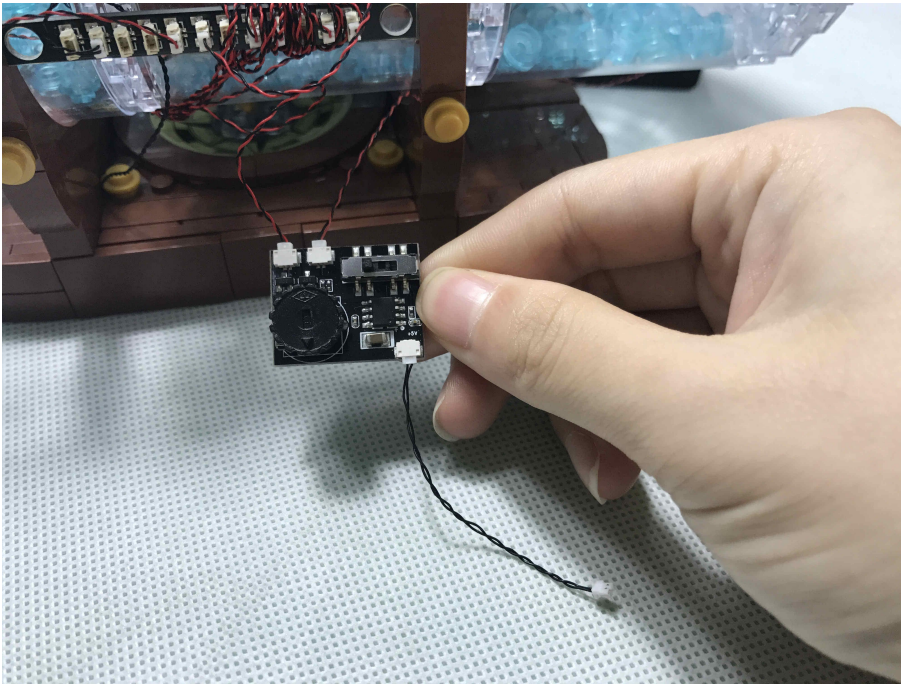**37.**Then install the tidal light, take the breathing plate and a 5cm cable.

Multi-Effect Module

Mode conversion

Input

Output

Frequency adjustment

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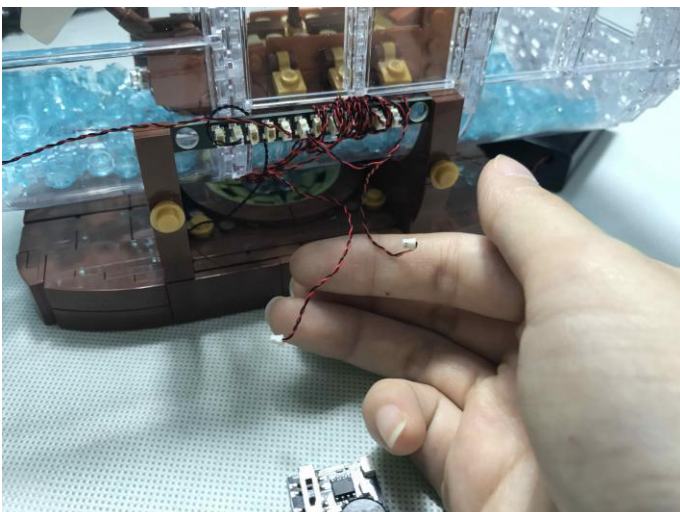
39. Connect the 5cm cable to the output (only one side of the interface).


40. Connect the other end of the 5cm cable to the 12-port expansion board and use an adhesive square to attach the Multi-EGects Board to the base. Turn on the power, we can see that the blue dot light are flickering like a tide, you can adjust the flashing mode by shifting the gear, turn the twist to adjust the flashing speed.
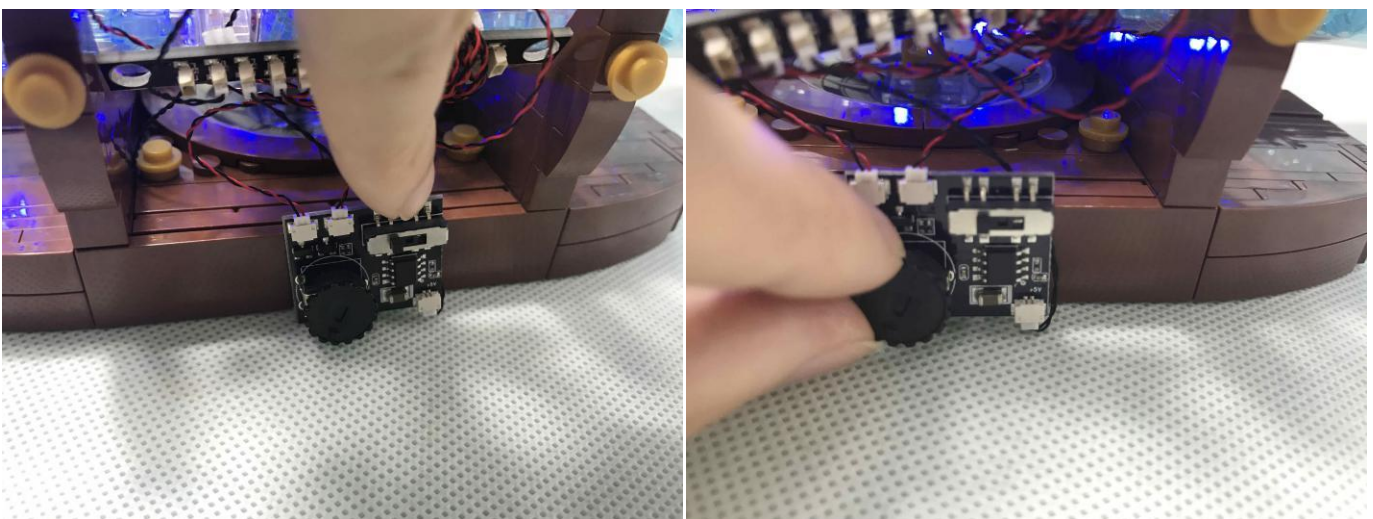
Good job, you've done all the installation steps, power it up and enjoy your work.
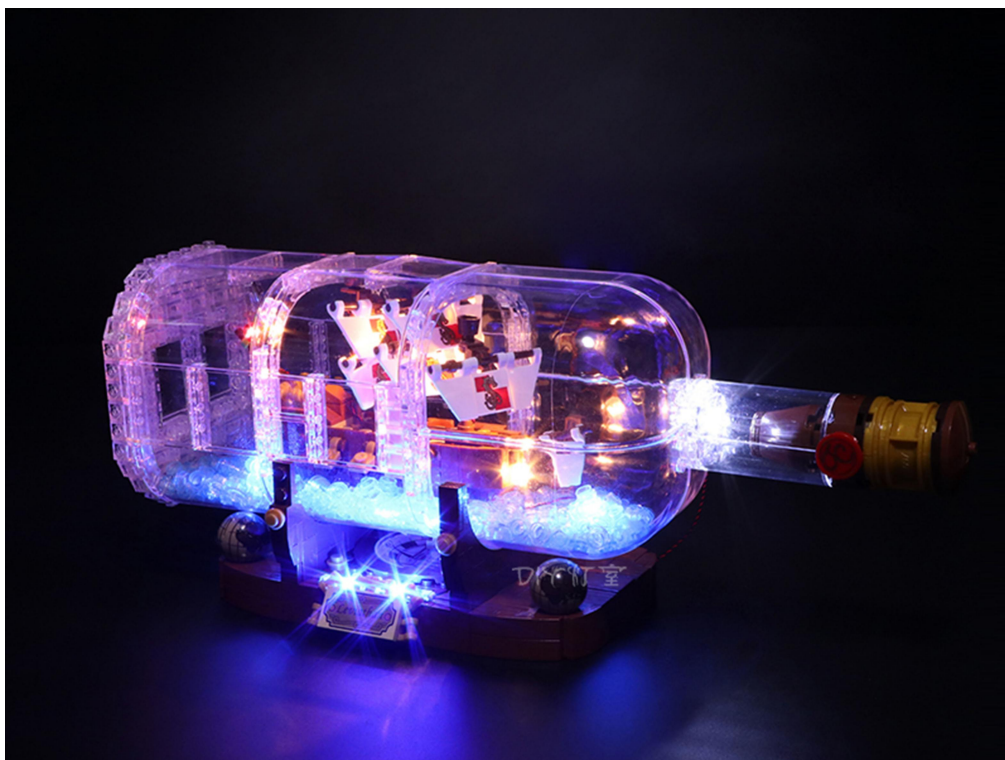
   The battery box can also power the set. If it is necessary to change the power supply , prepare three AA batteries, install them in the battery box, turn on the switch on the battery box, remove the plug of the USB Power Cable from the socket of the expansion board,plug the plug of the battery box to the same socket in the expansion board to power the suit as well.

   THANKS