

# 31109 Pirate Ship P175

- **P175 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 “31109 P175”.**
- **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 9 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	2
Bit Lights-30CM-Green	Bit Lights-30CM-Green	2
Bit Lights-30CM-Warm White	Bit Lights-30CM-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	2
Parts package		

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

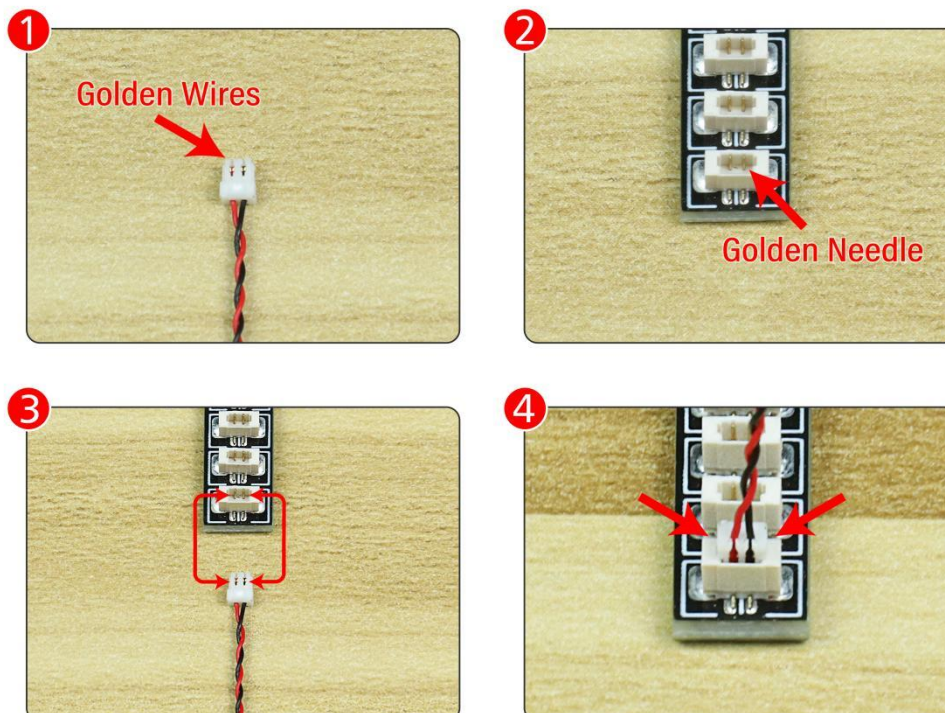
## Section B: Test that each components is working properly.

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



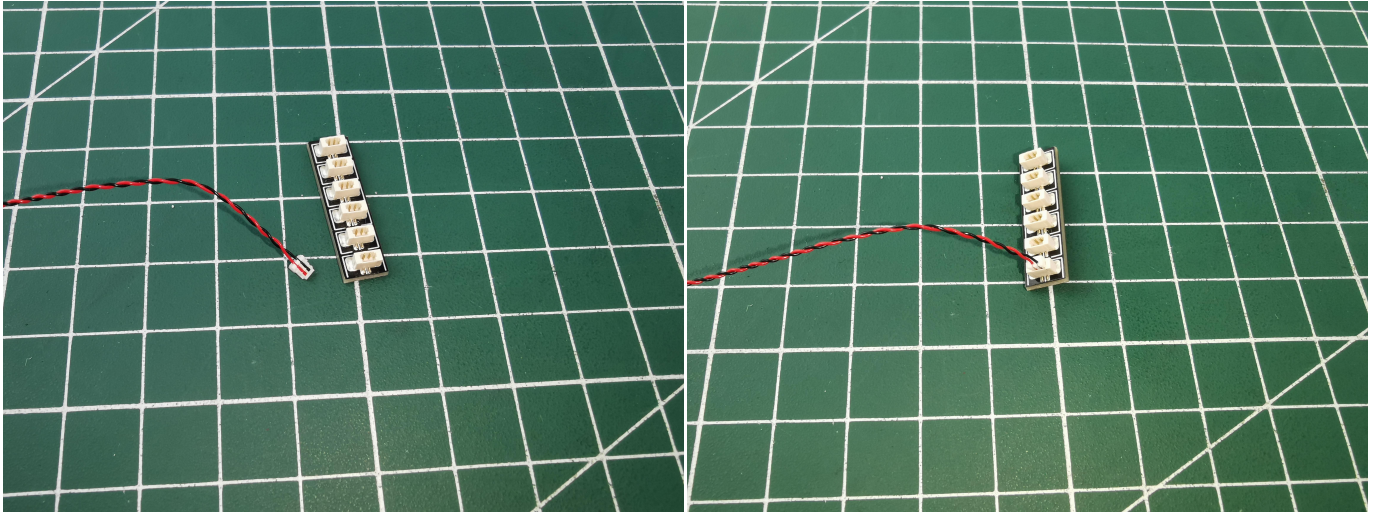
It is worth reminding that our products are all customized. They have a unique way of connecting. The white plug on wire and the socket of the expansion board need to be connected together to transmit power.

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.



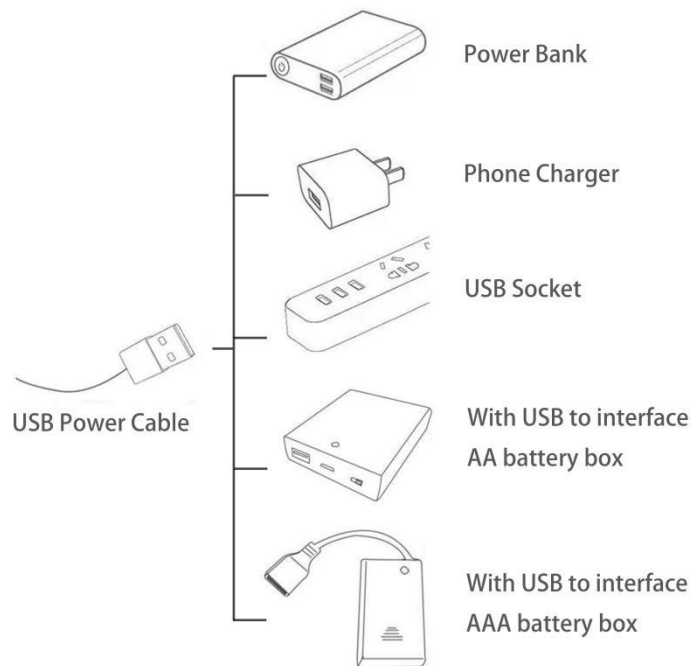
All our connections between plug and socket are all the same as shown above. So for any such structure with plug and socket, please pay attention to the golden wire of the plug and the golden needle of the socket, they must be touched together.

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.

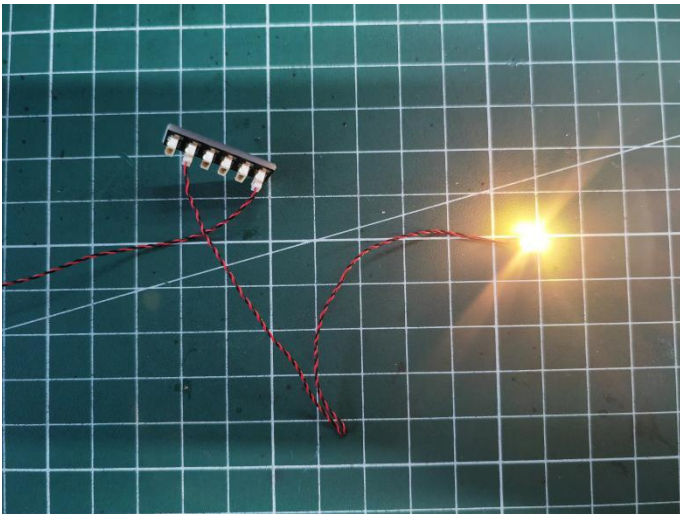
USB connectors to connect devices



**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-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-Warm White,2\*Bit Lights-30CM-Green,4\*Bit Lights-30CM-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**



**2.** Start from installing lights for the tail.



**3.** Pull the following piece out from the tail.

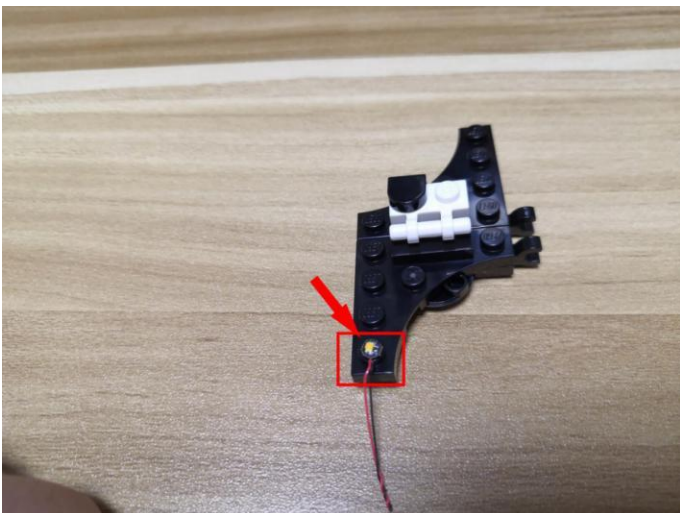




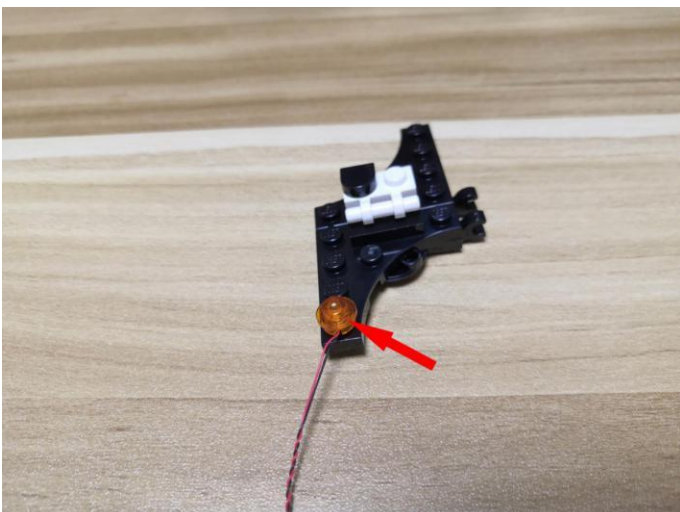
**4.** Take a 1x1 orange round plate, a warm white 30cm dot light.



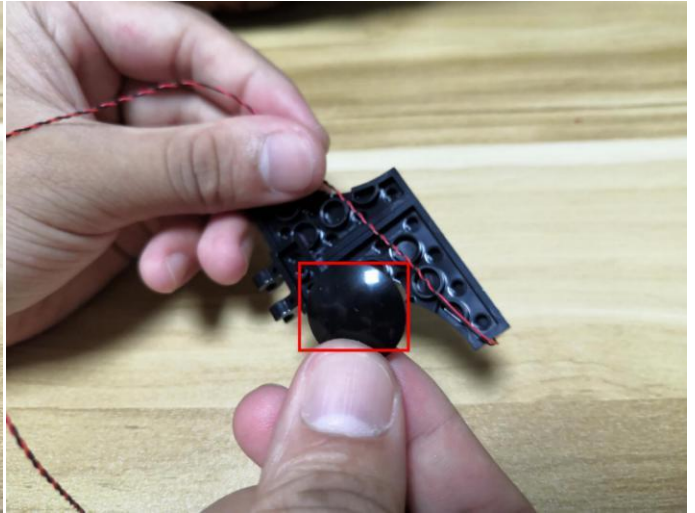
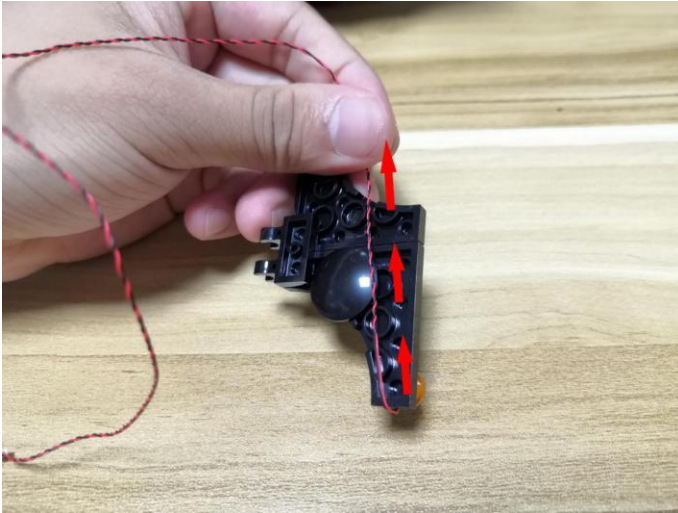
**5.** With lighting part facing up, connect the light to the following place.



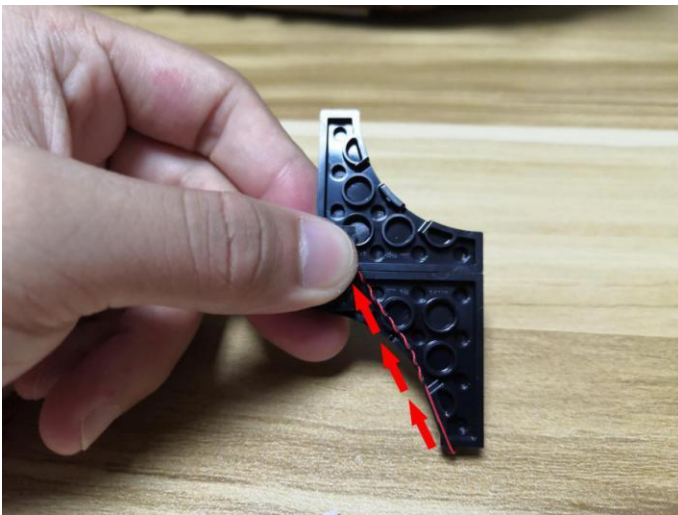
**6.** Connect the round plate over to secure the light.



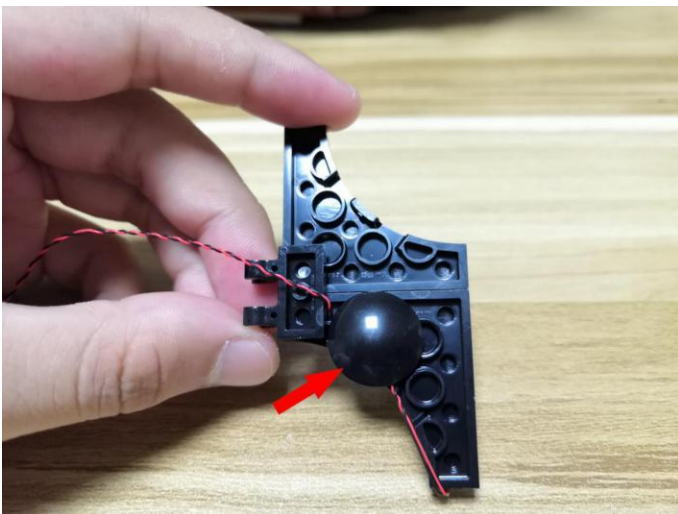
**7. Pull the cable to the back, disconnect the following round piece.**



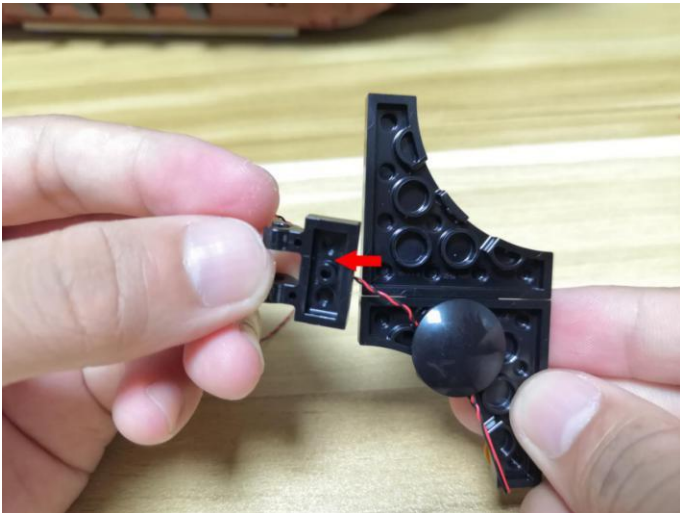
**8. Pull the cable diagonally toward the following corner.**



**9. Reconnect the round piece to secure the cable.**



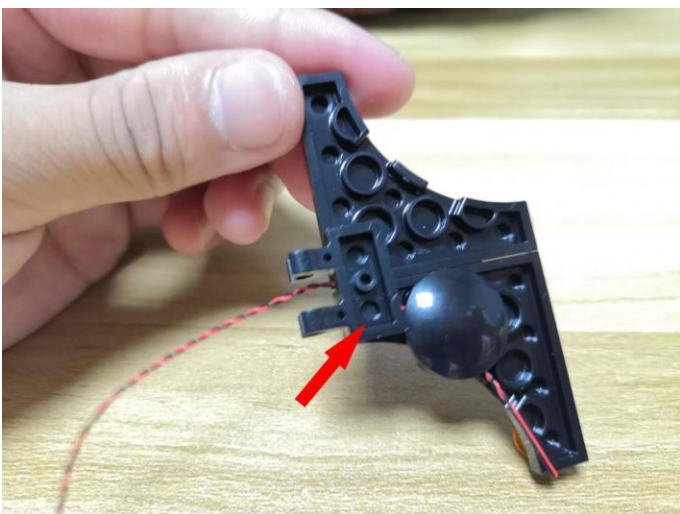
**10.** Disconnect the following piece with claw.



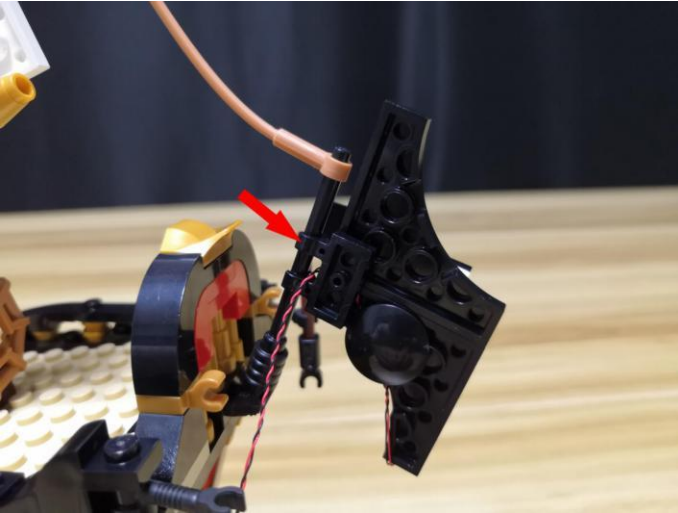
**11.** Place the cable as per below.



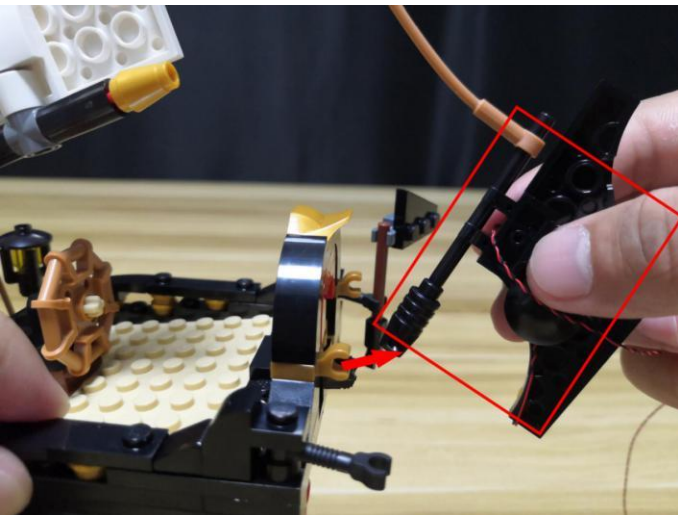
**12.** Reconnect the piece with claw.



**13.**Reconnect the whole piece back to the tail.



**14.**Disconnect the following whole tail piece.



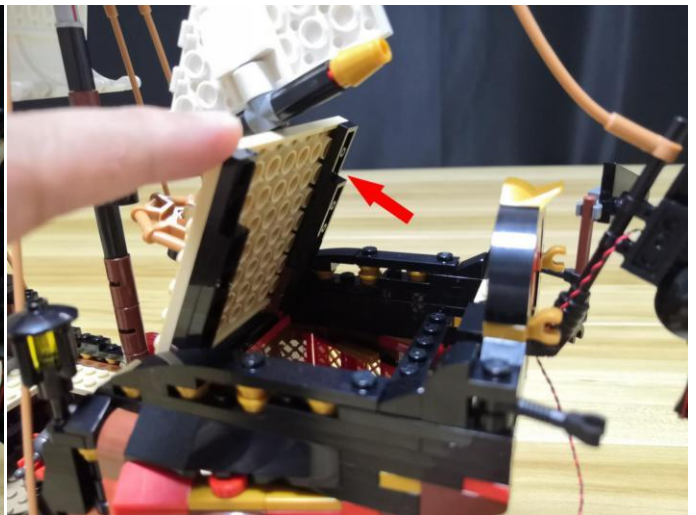
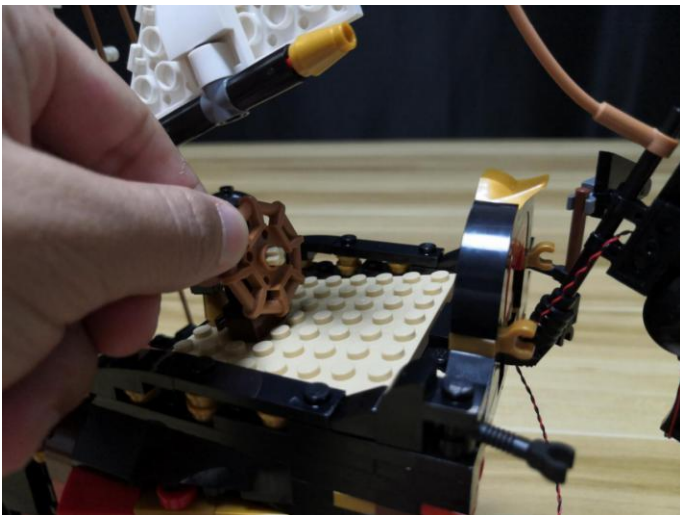
**15.**Place the cable on the following joint.



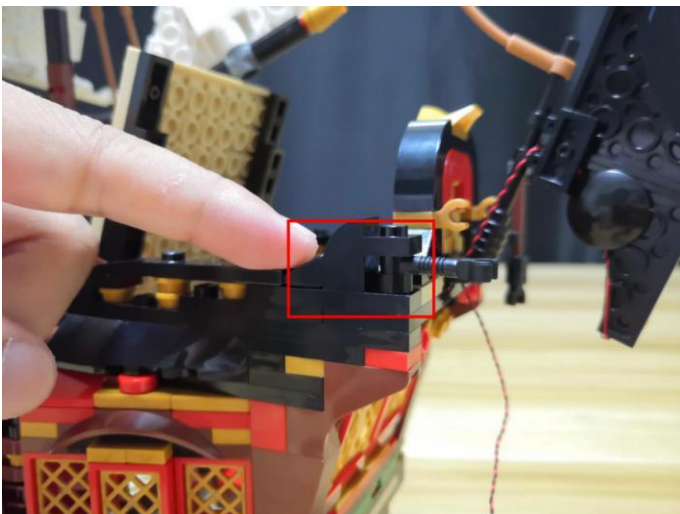
## 16.Reconnect the tail piece.



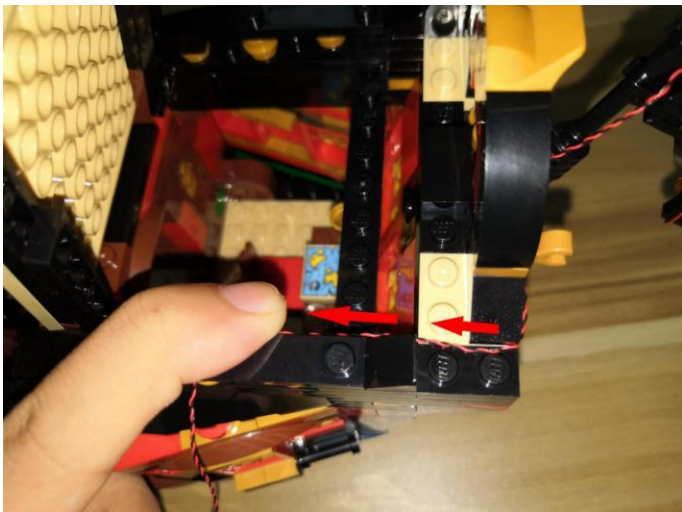
## 17.Open the cover at the rudder.



## 18.Remove the following black piece.



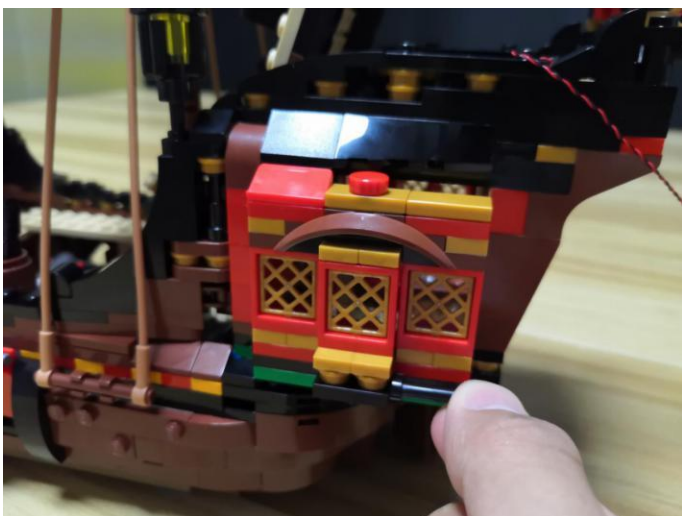
**19.**Place the cable as per below.



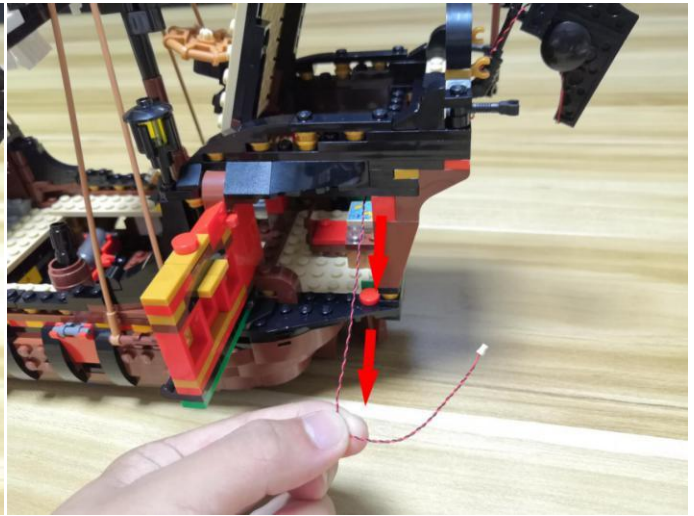
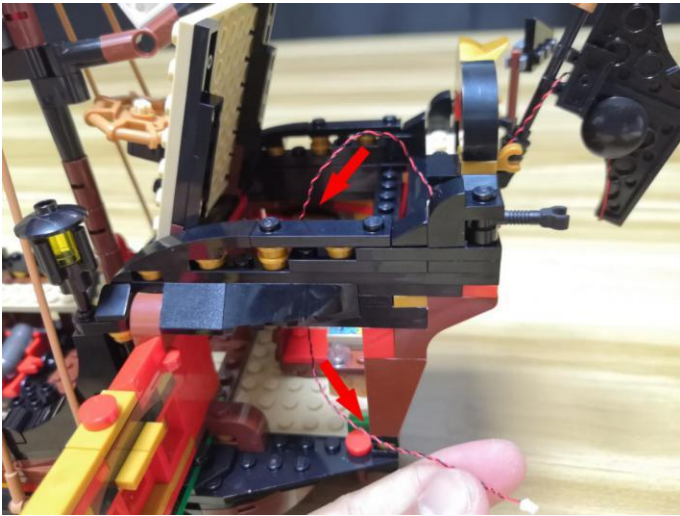
**20.**Reconnect the black piece.



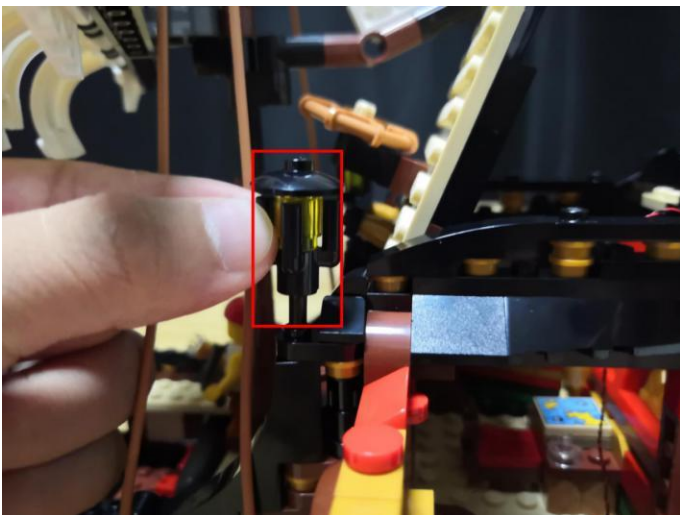
**21.**Open the side door of the cabin.



**22.** Thread the cable through the cabin, straighten the cable as per below.



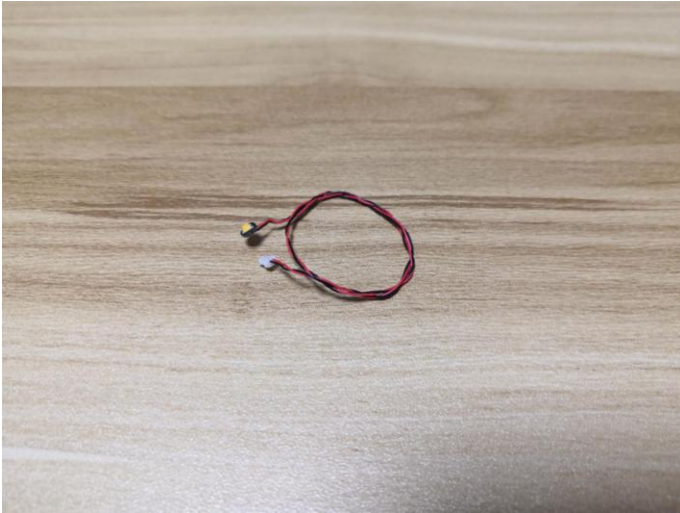
**23.** Continue to install the lights. Disconnect the following light.



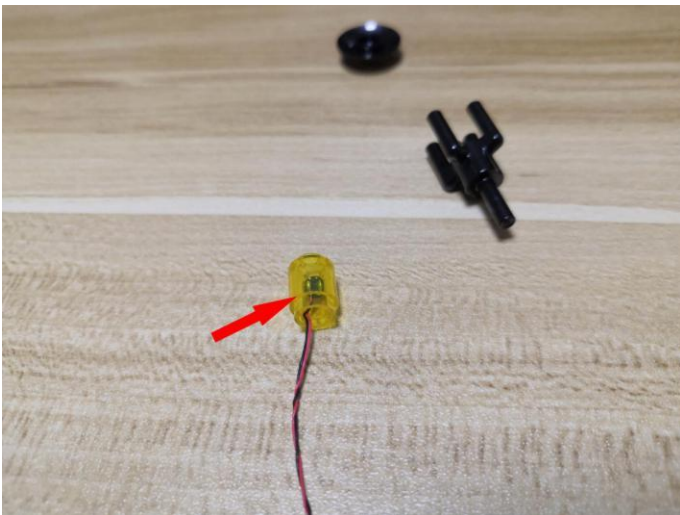
**24.** Disassemble it.



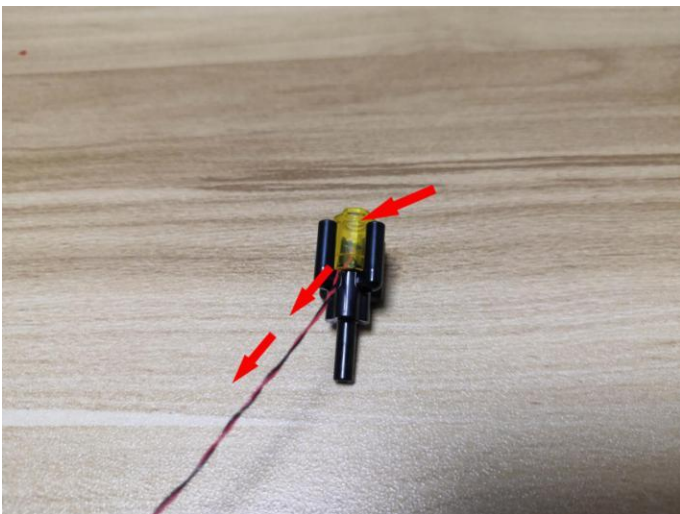
**25.**Take a warm white 15cm dot light.



**26.**Place the light inside the yellow lampshade.

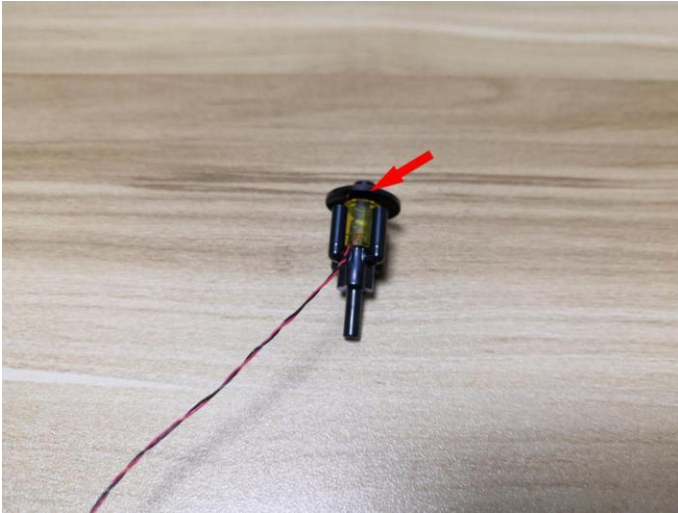


**27.**Reconnect the lampshade to the lamp hanger, pull the cable out.

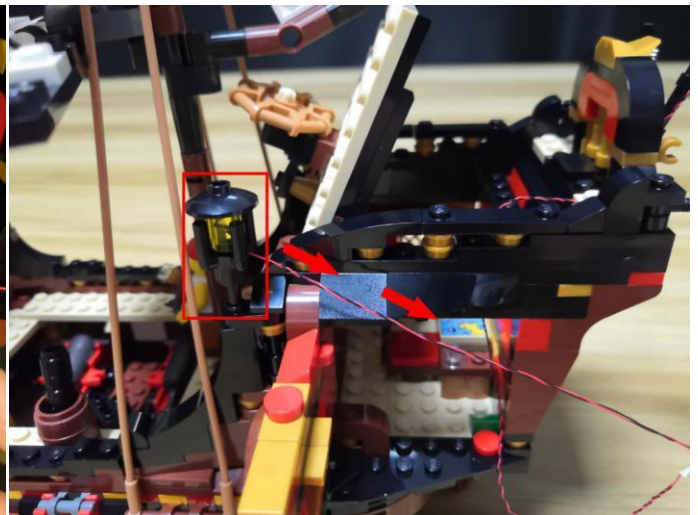
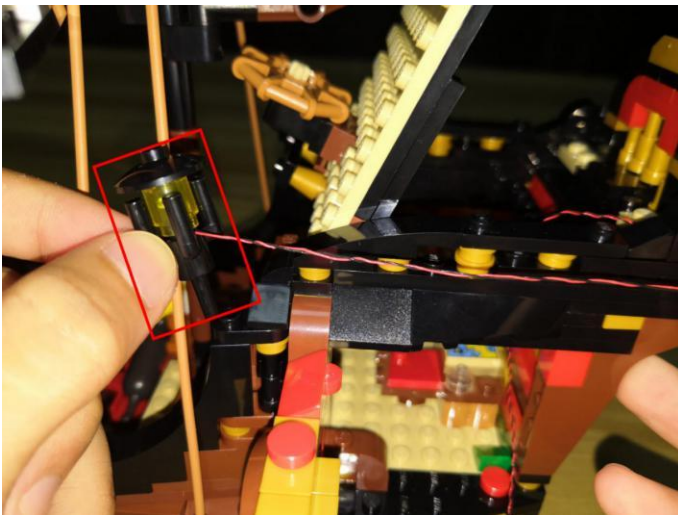




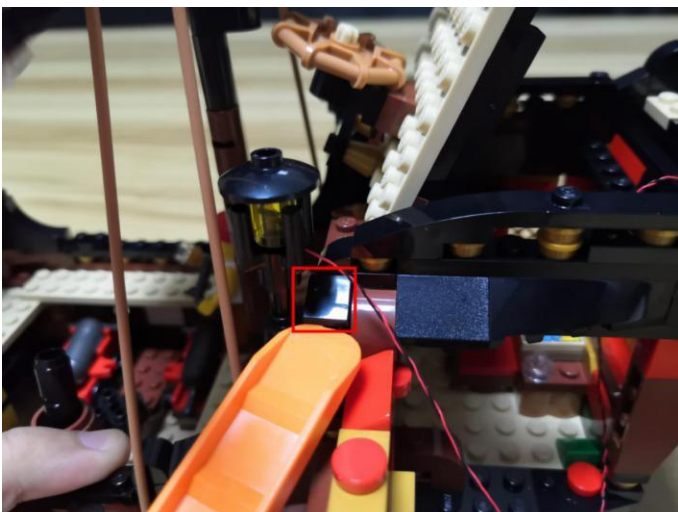
**28.Reconnect the round cover.**



**29.Reconnect this light.**



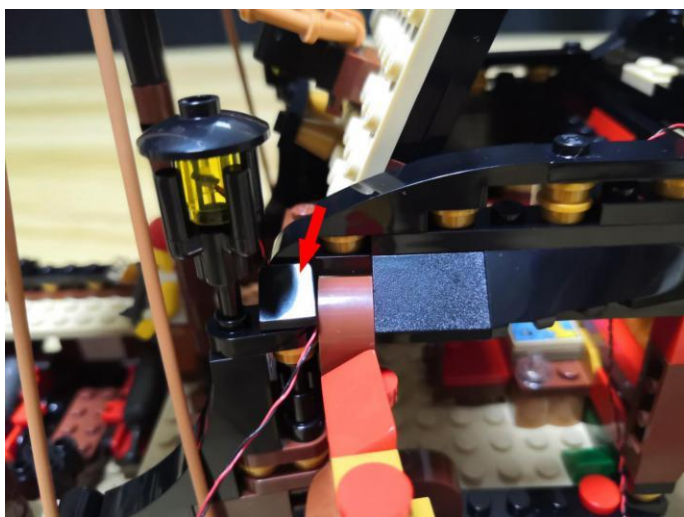
**30.Disconnect the following triangle piece next to the light with the tool.**



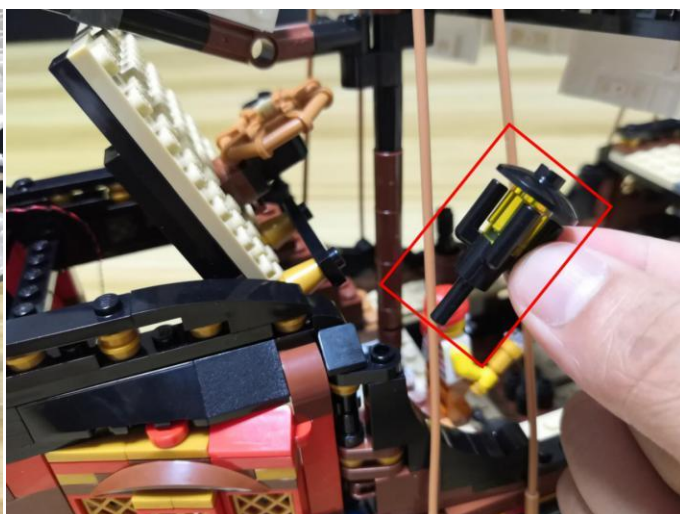
**31.** Place the cable in between studs as per below.



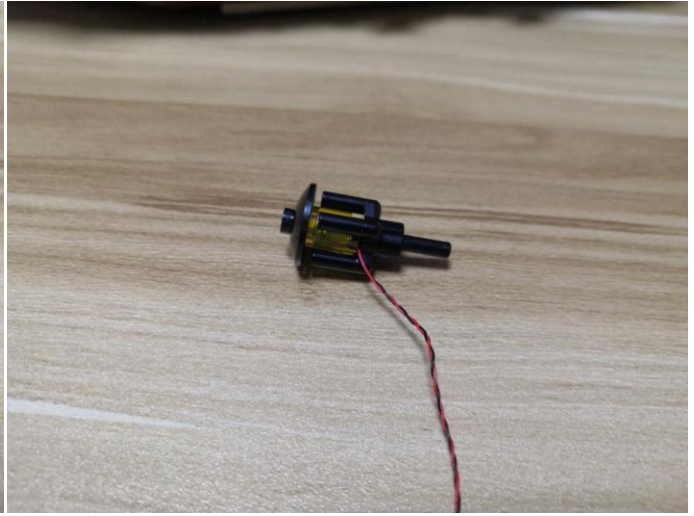
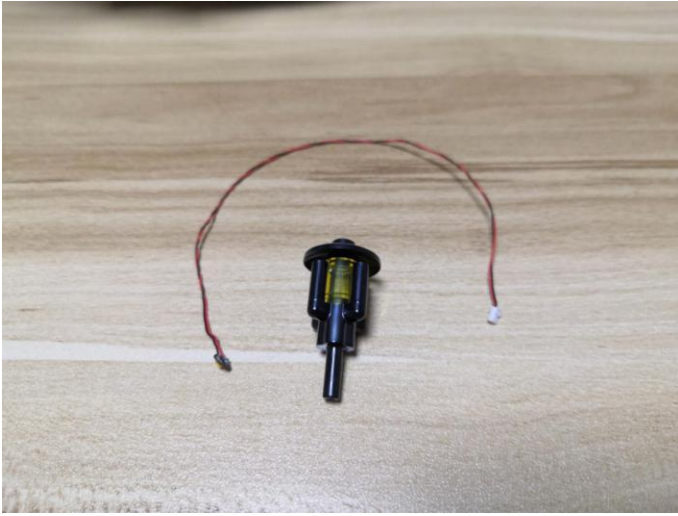
**32.** Reconnect the piece to secure the cable.



**33.** Turn to the other side of the tail, continue to install the second light.



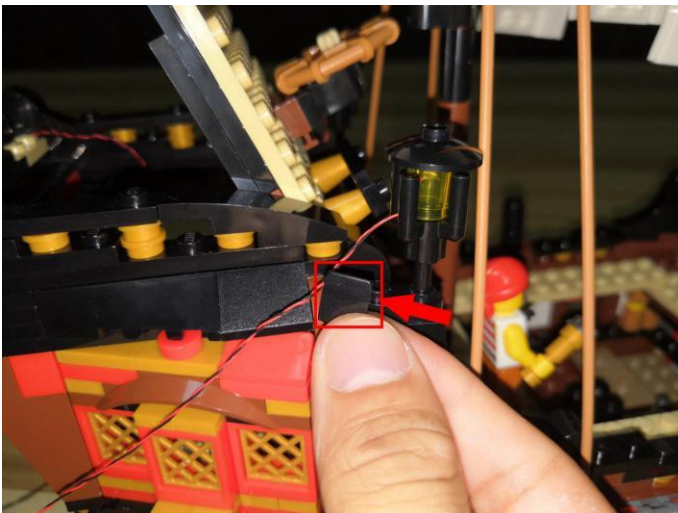
**34.**Take a 15cm warm white dot light, repeat the steps above to install this light as per below.



**35.**Reconnect this light.



**36.**Disconnect the following triangle piece next to the light.



**37.**Place the cable in between studs, reconnect the piece to secure the cable.



**38.**Disconnect the following railings with the tool.



**39.**Place the cable as per below.



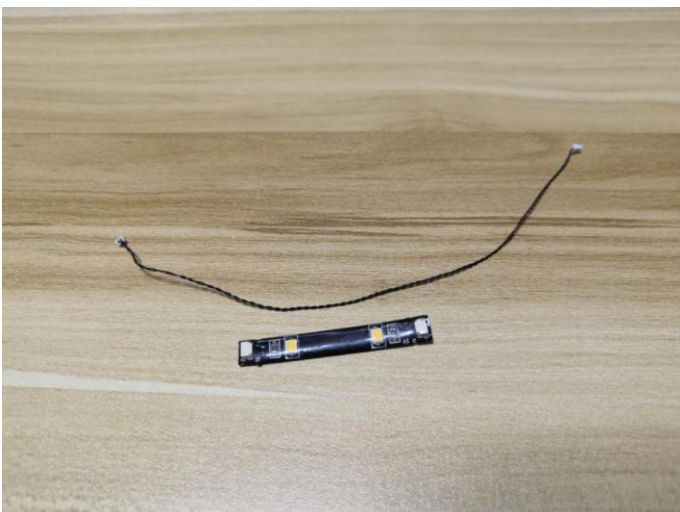
**40.**Reconnect the railings to secure the cable.



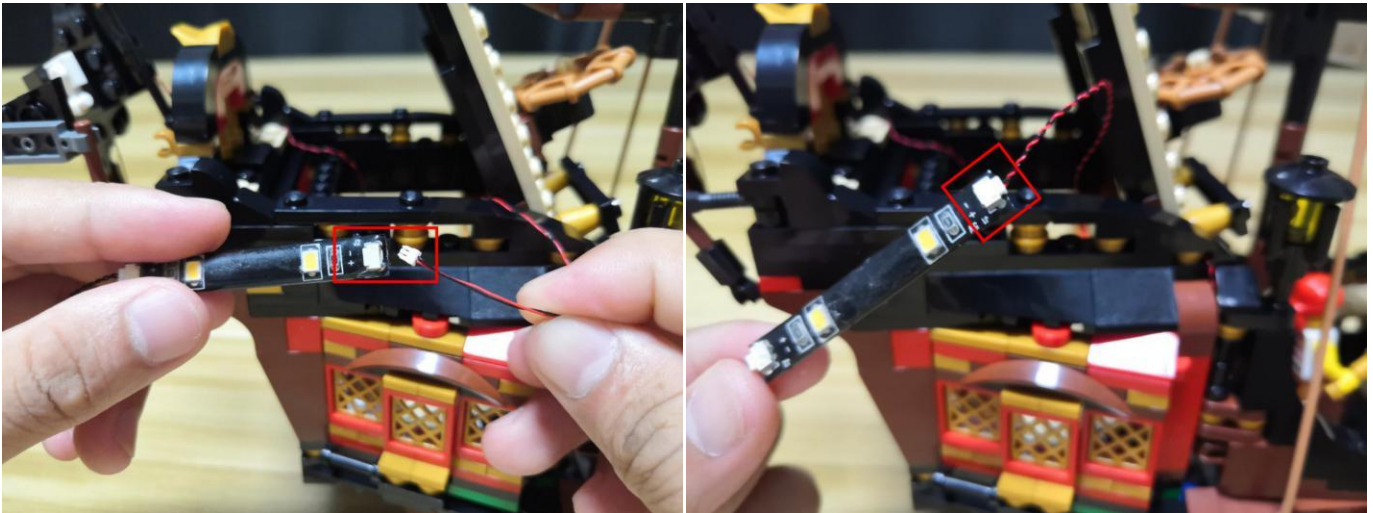
**41.**Thread the cable through the following space between the pieces (you can take the tweezers to help).



**42.**Take a warm white strip light, a 15cm connecting cable, assemble them as per below.



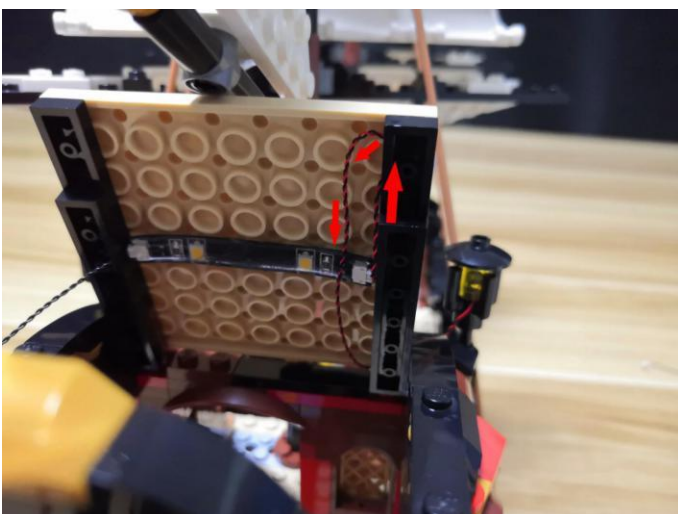
**43.** Connect the following cable to the spare end on the strip light.



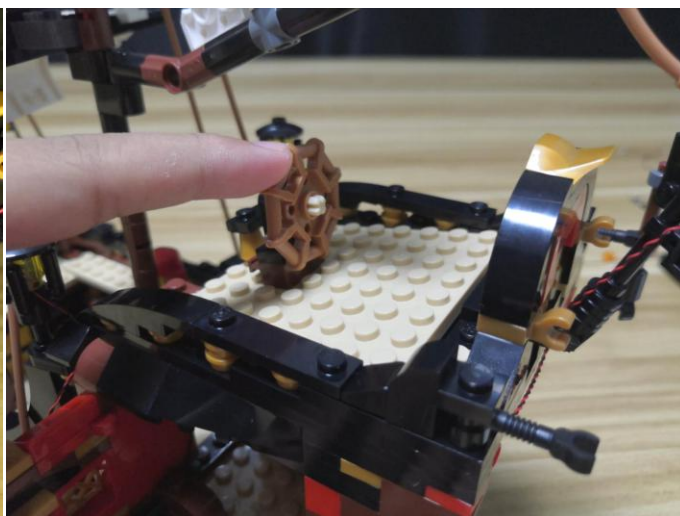
**44.** Stick the strip light to the following place.



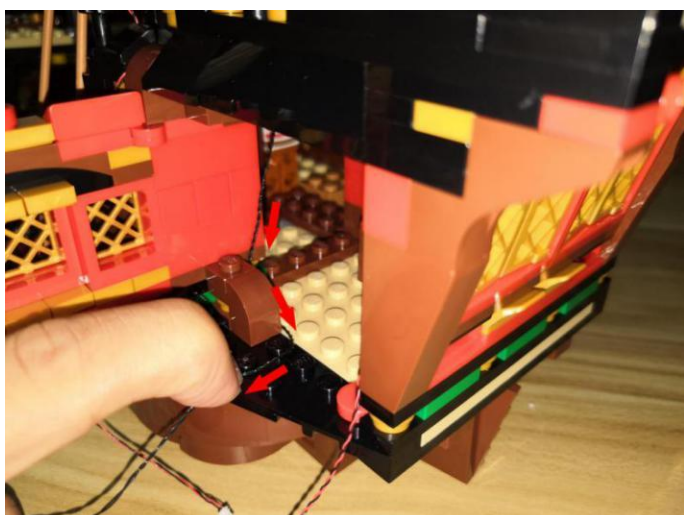
**45.** Tuck excess cable, stuck the cable at the following place as per below.



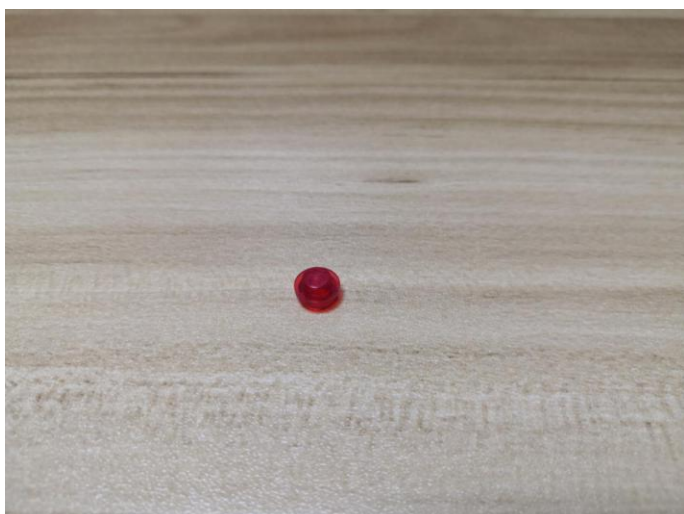
**46.**Place the 15cm connecting cable inside the cabin, close the cover.



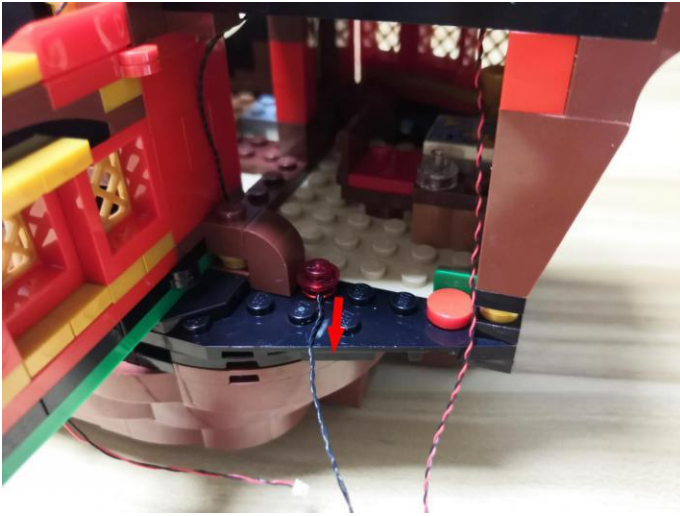
**47.**Place the cable alongside the brown piece as per below.



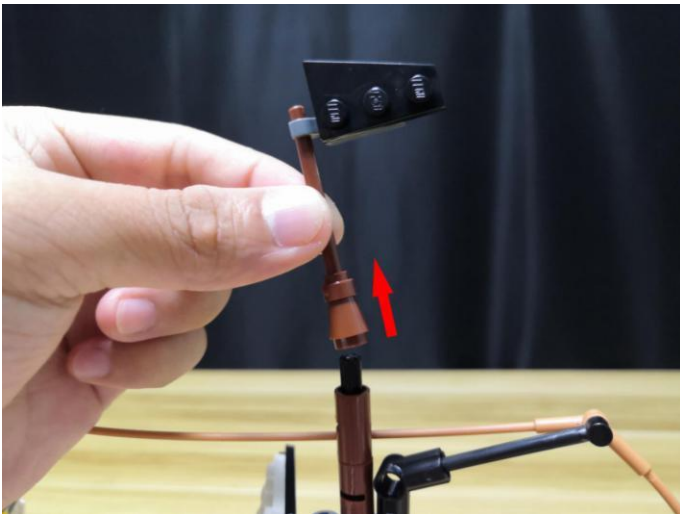
**48.**Take a red round plate.



**49.**Secure the cable with the round plate (there are 2 openings on the round plate, in case of breaking the cable, please place the cable in them).



**50.**Move onto installing lights for the mast, disconnect the flag from the first mast.

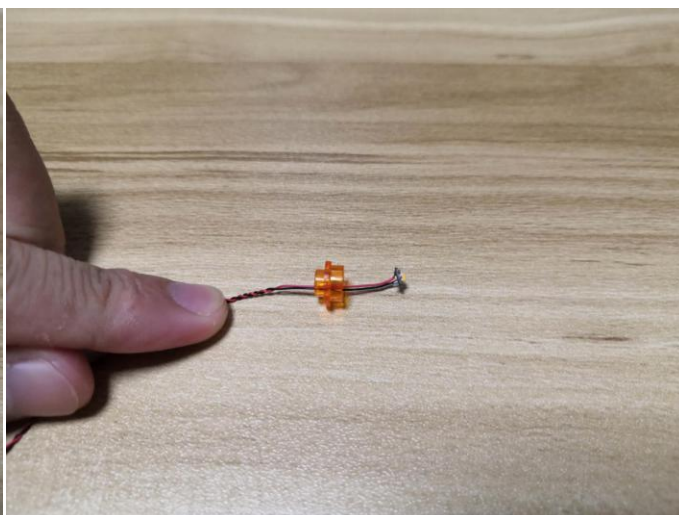
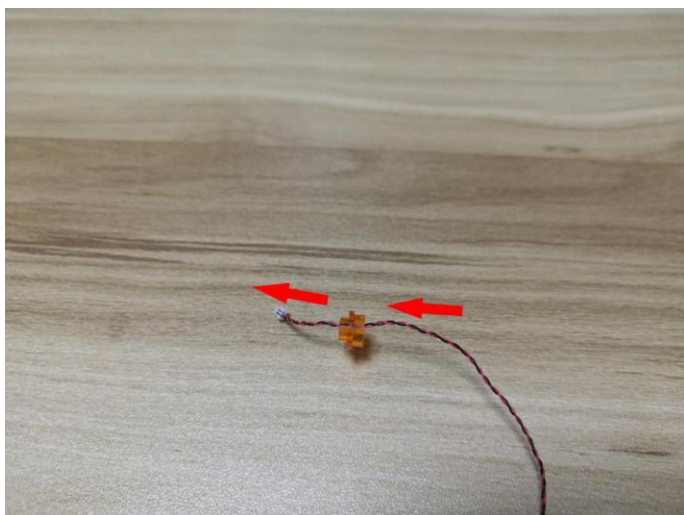




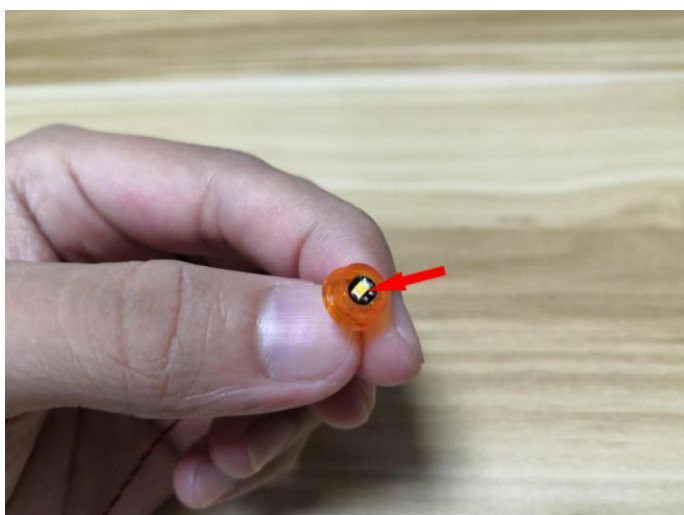
**51.** Take a hollow orange 1x1 round plate, a warm white 30cm dot light.



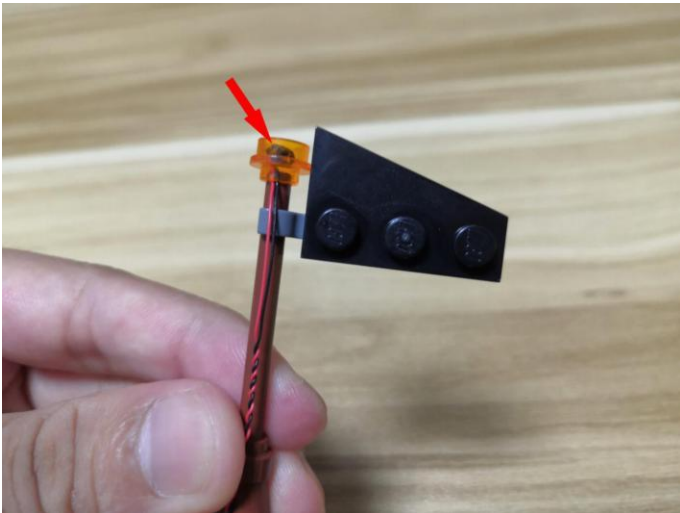
**52.** Thread the cable through the round plate as per below (with the smaller side facing back).



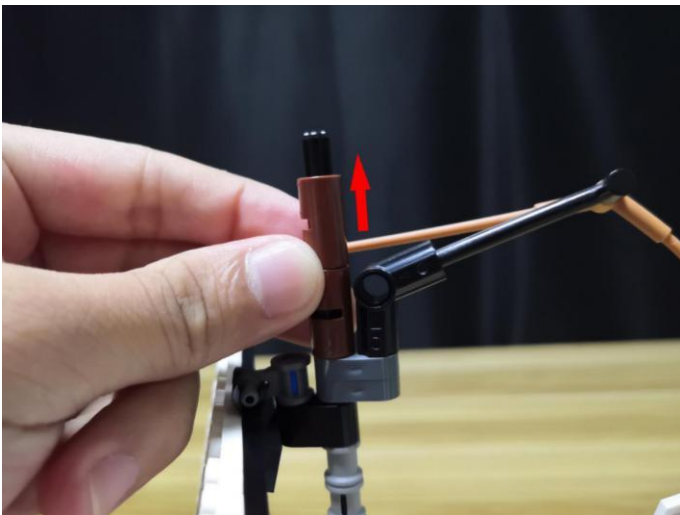
**53.** Stuck the light to the bigger side as per below.



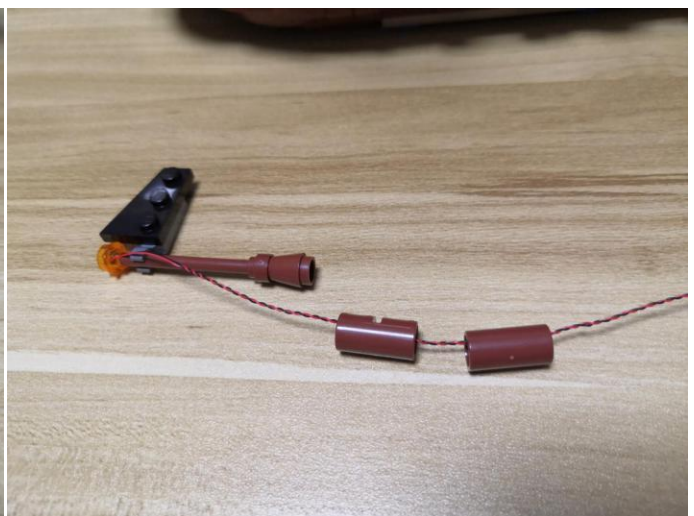
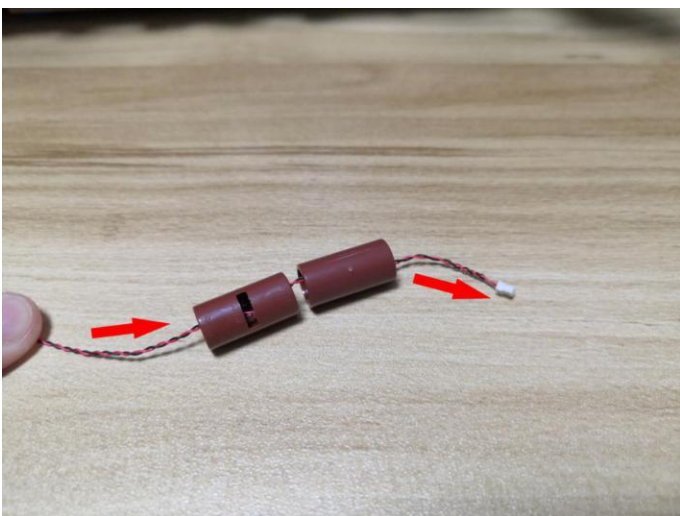
**54.**Secure the round plate to the flagpole as per below.



**55.**Remove the 2 pipes from the mast.



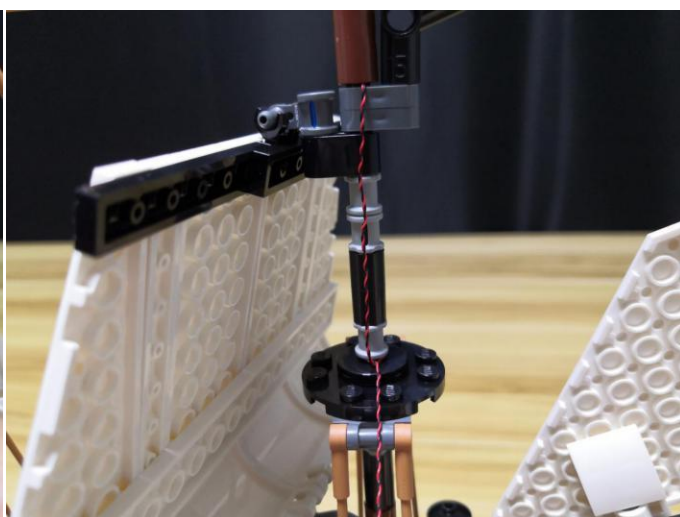
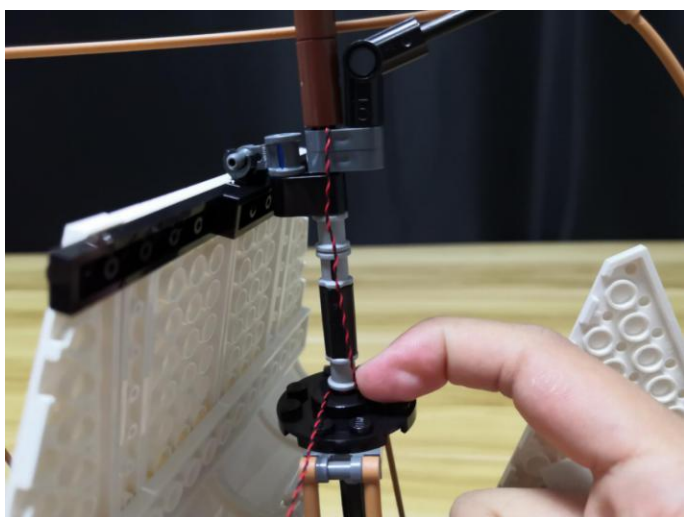
**56.**Thread the cable through the 2 pipes as per below.



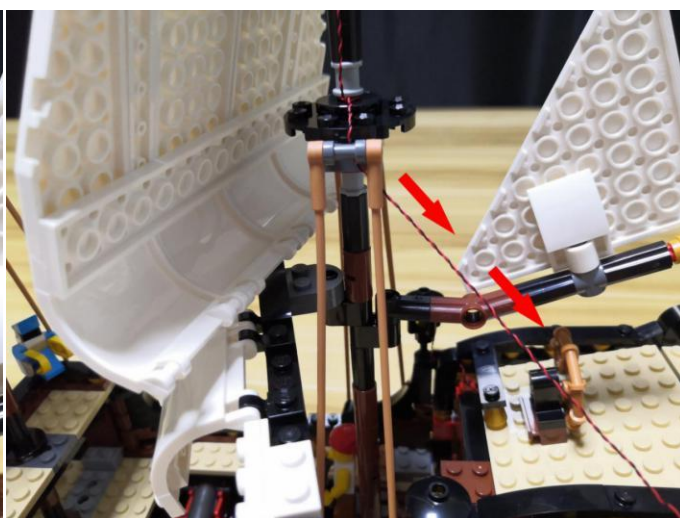
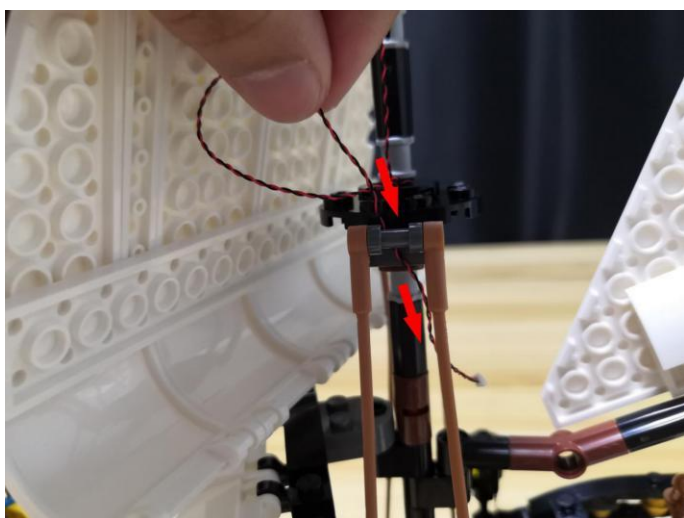
**57.**Reconnect the flag back to the mast, tighten the cable up while reconnecting the flag.



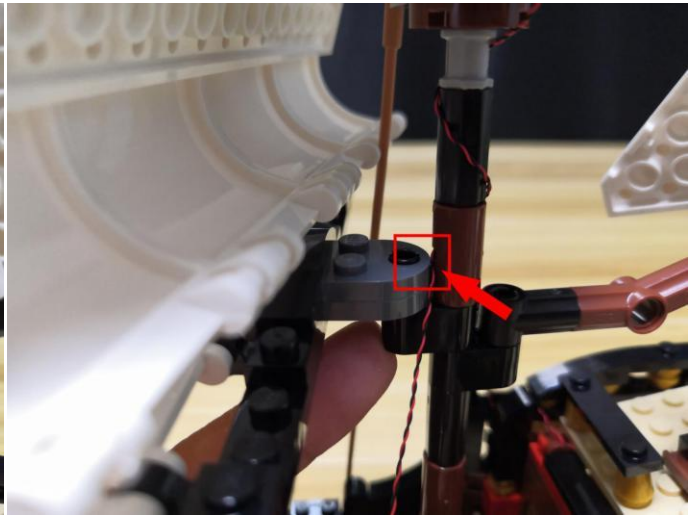
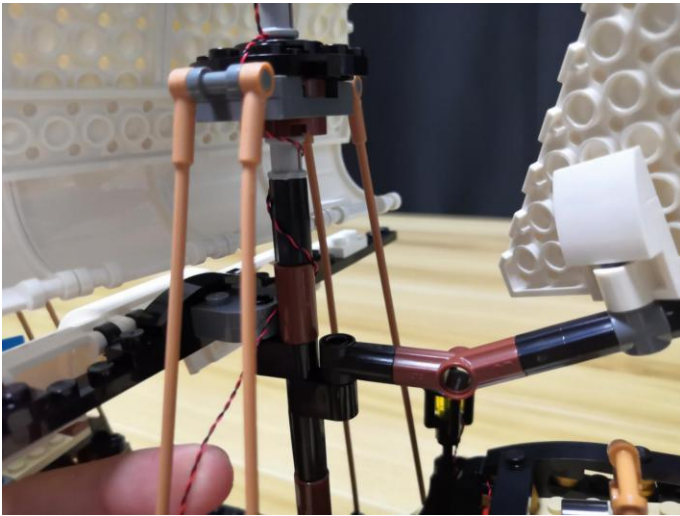
**58.**Wind the cable around the mast as per below.



**59.**Thread the cable through the space at the joint, tighten the cable up.



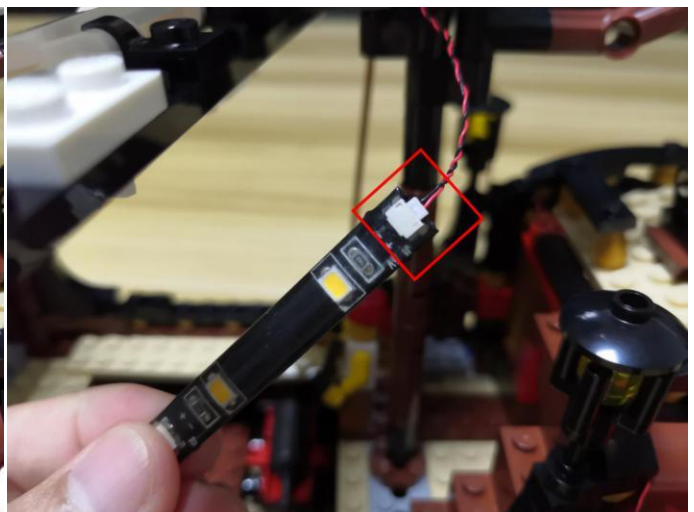
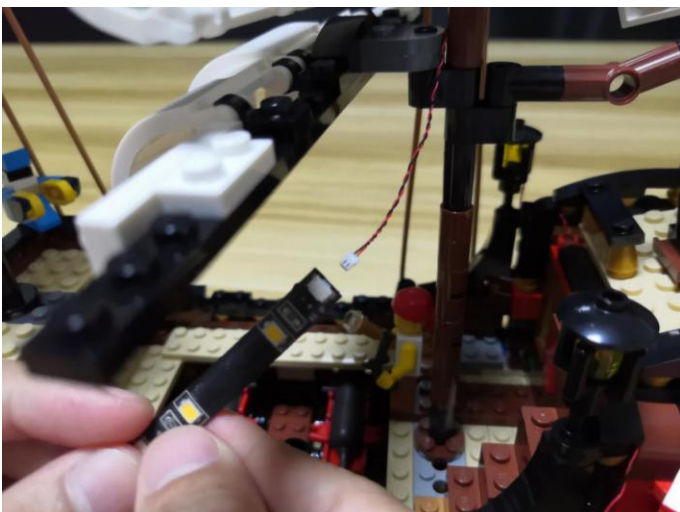
**60.**Wind the cable around the mast three times, stuck it at the following place.



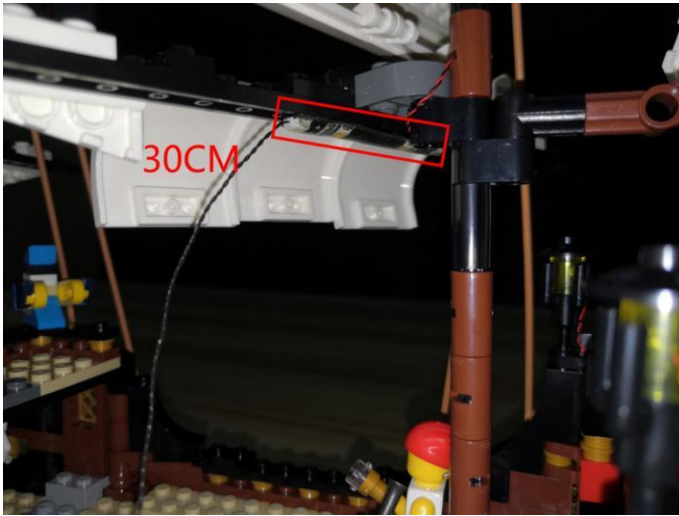
**61.**Take a warm white strip light, a 30cm connecting cable, assemble them as per below.



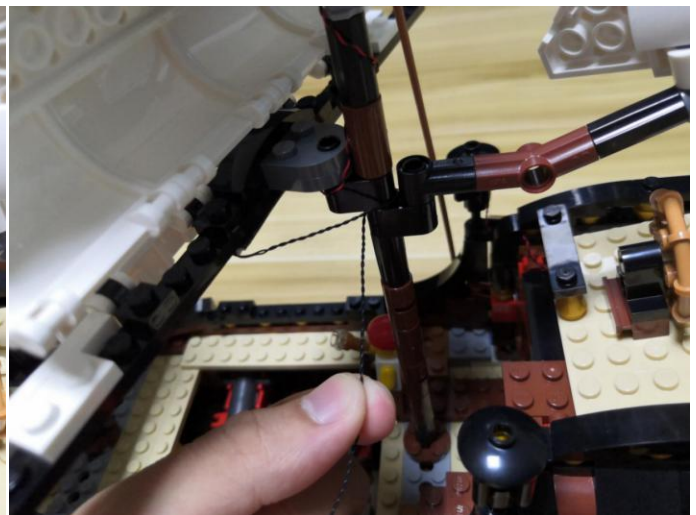
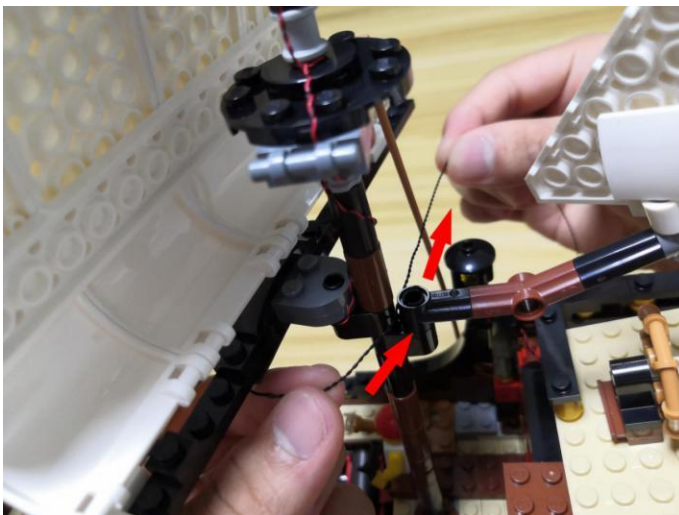
**62.**Connect the cable from the mast to the strip light as per below.



**63.**Stick the strip light to the following place, pull the 30cm connecting cable out.



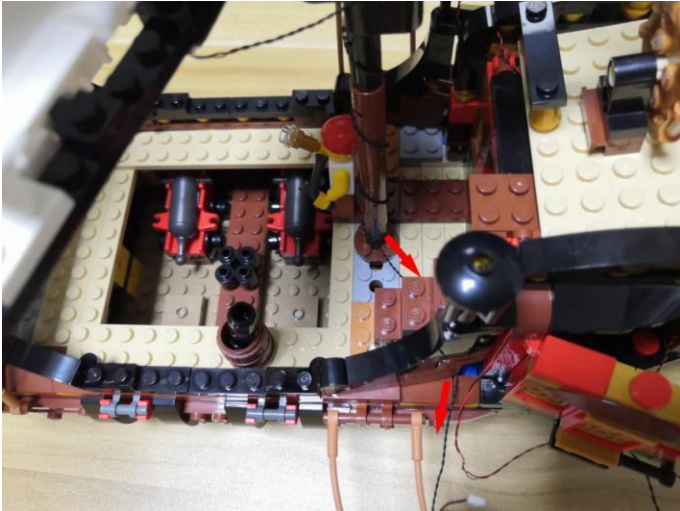
**64.**Wind the cable around the mast as per below.



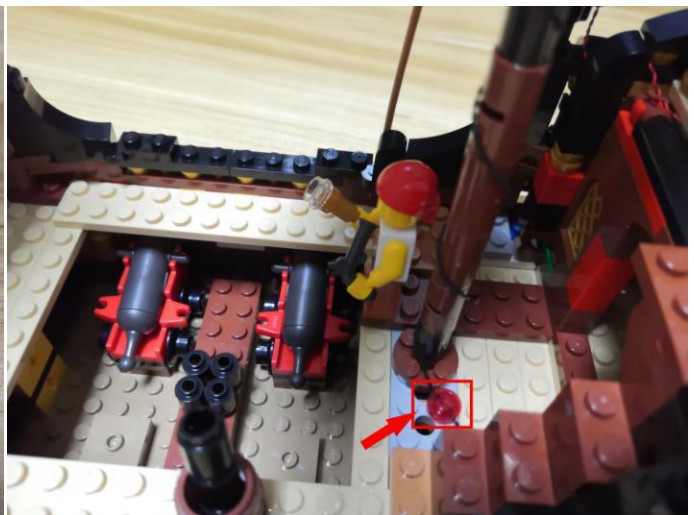
**65**



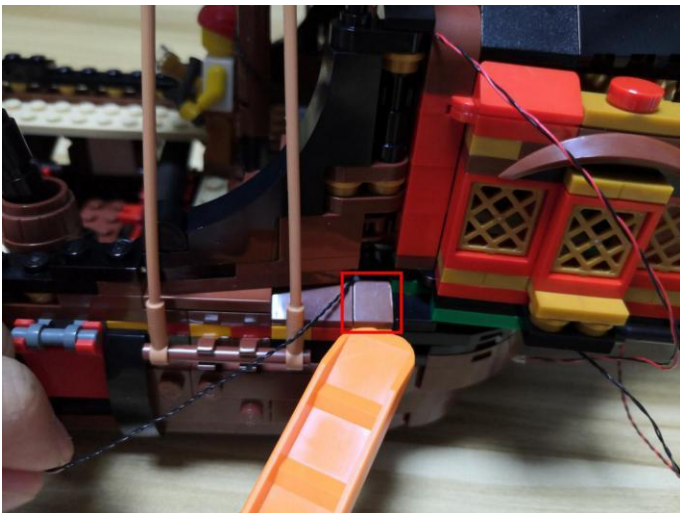
**66.** Pull the cable out from the stairs.



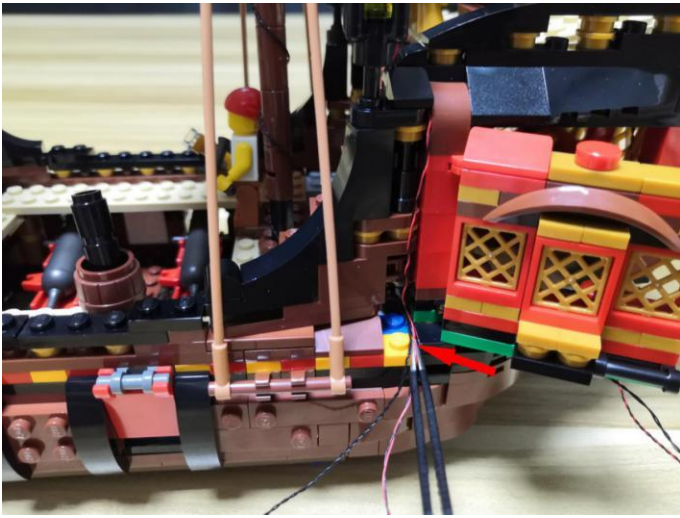
**67.** Take a red 1x1 round plate, connect it to the following place to secure the cable.



**68.** Disconnect the following piece with the tool.



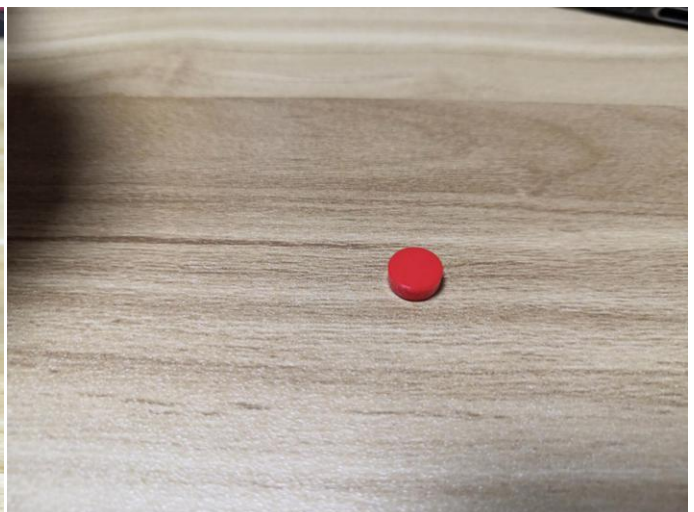
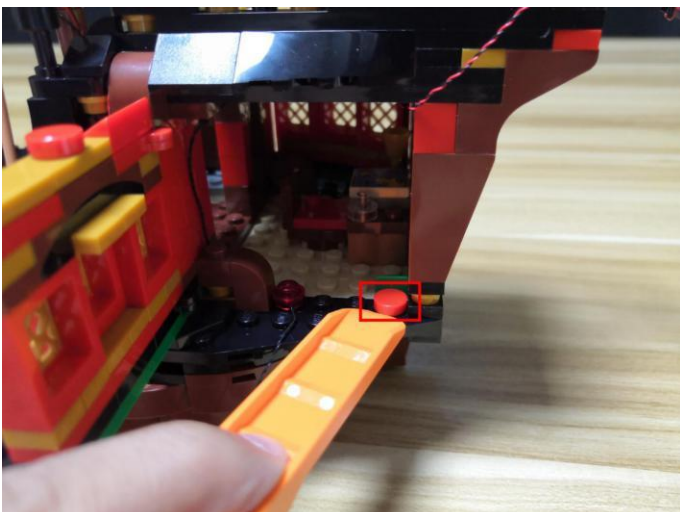
**69.**Place the cable at the following place, you can take the tweezer to help, but note to not break the cable.



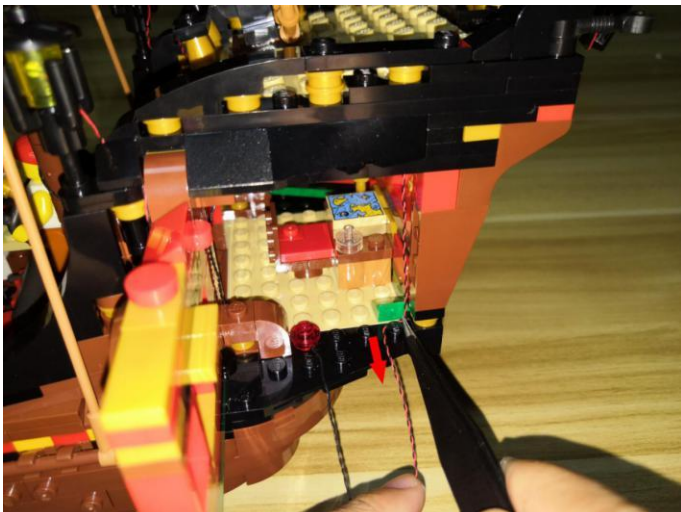
**70.**Reconnect the triangle piece.



**71.**Turn to the side door of the cabin, disconnect the red round plate with the tool.



**72.**Place the cable in between studs as per below.



**73.**Reconnect the red piece.

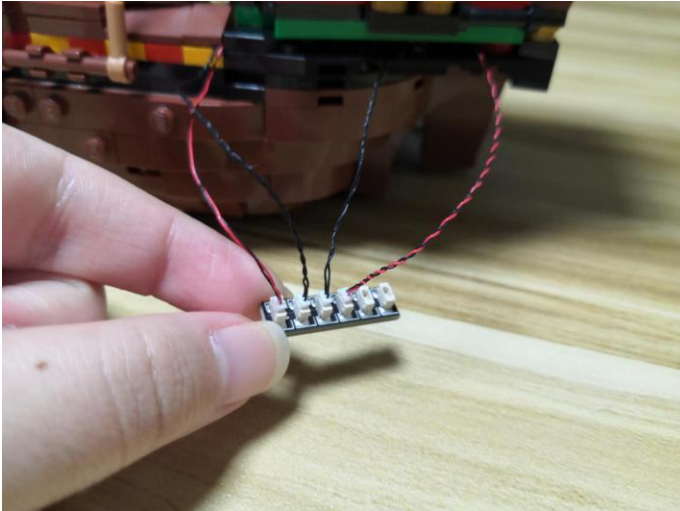


**74.**Take a 6-port expansion board.





**75.**Connect the cables from the tail to the expansion board.



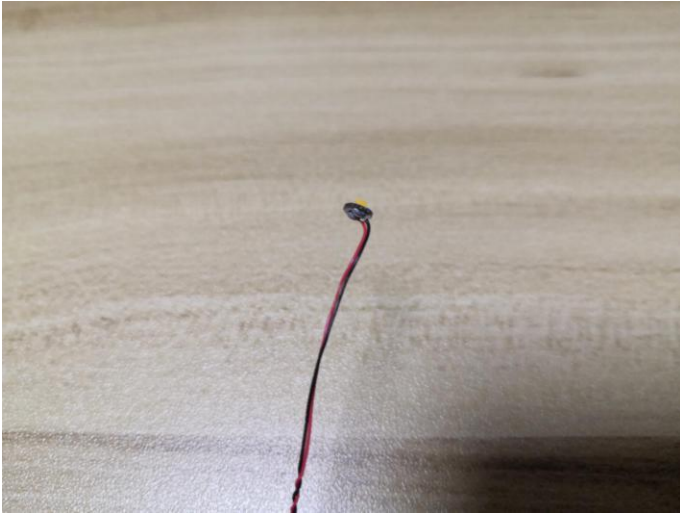
**76.**Continue to install lights for the head, turn to the head.



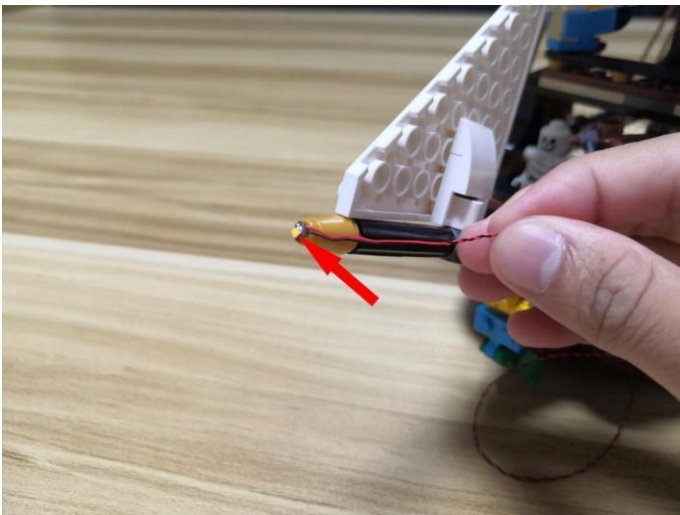
**77.**Take a warm white 30cm dot light, an orange round plate.



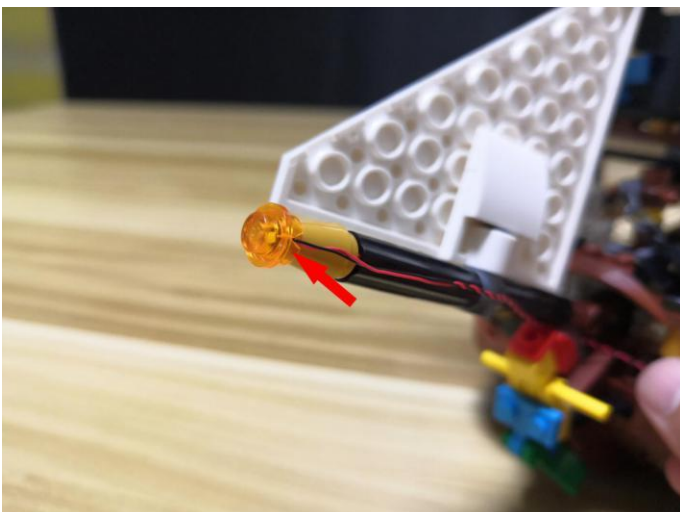
**78.**Bend the cable a lit (with lighting part facing up).



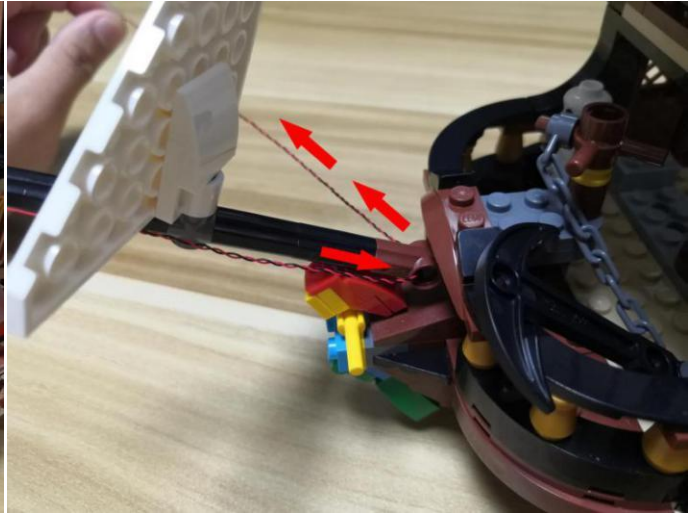
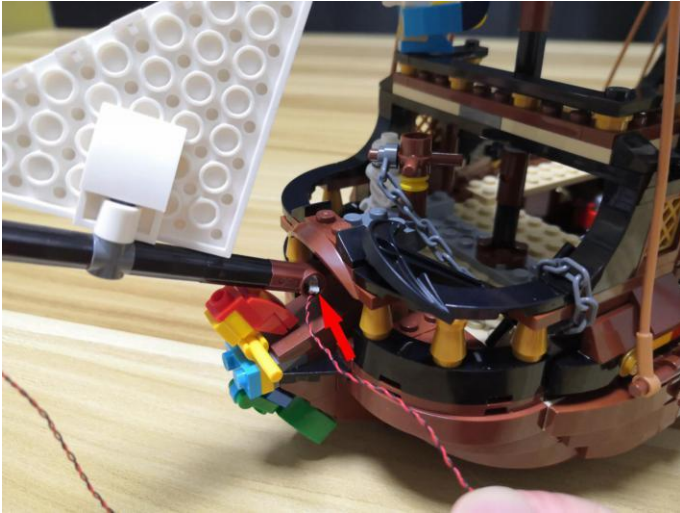
**79.**Place the light at the point of the head as per below.



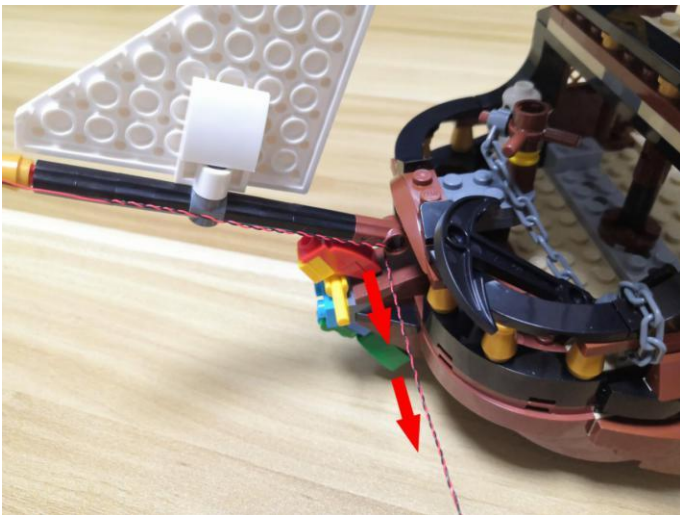
**80.**Connect the orange round plate over (place the cable at the opening on the round plate) to secure the light.



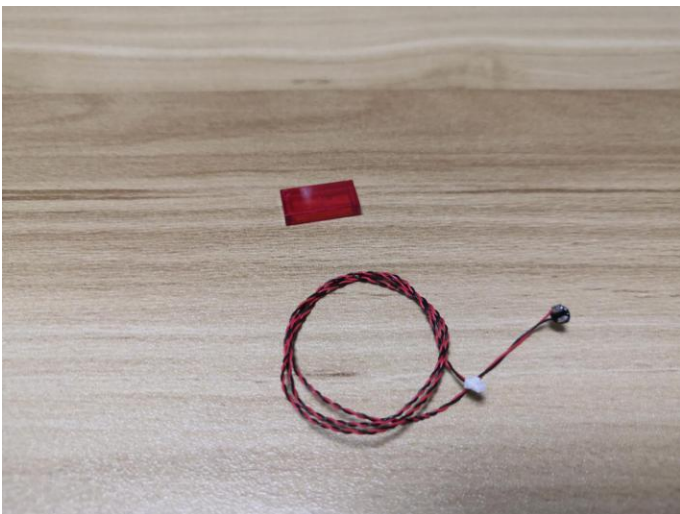
**81.** Thread the cable through the following hole.



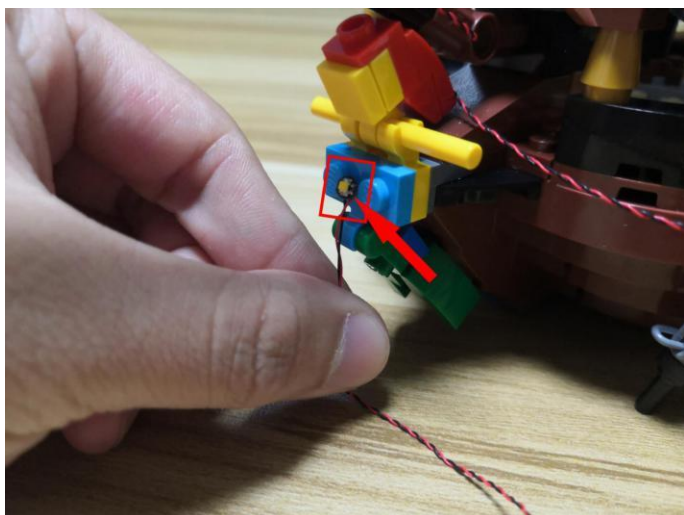
**82.** Tighten the cable up.



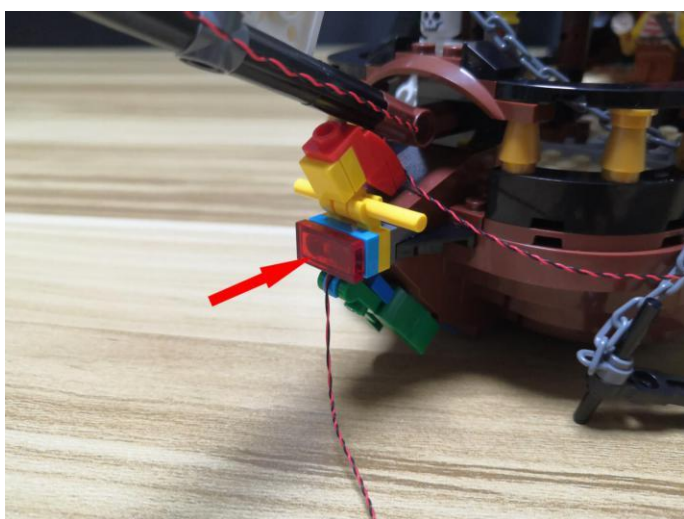
**83.** Take a warm white 30cm dot light, a trans red 1x2 plate.



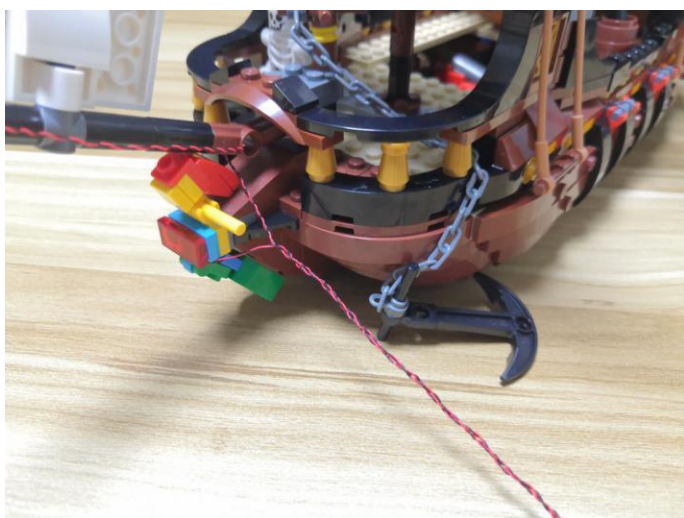
**84.**Place the light at the following place.



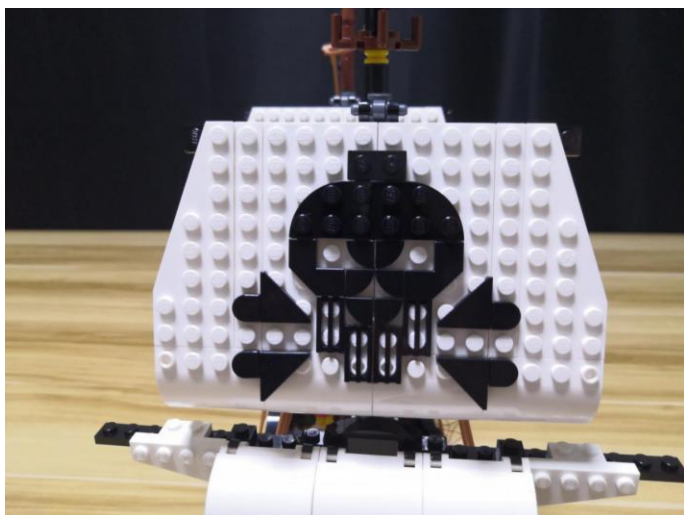
**85.**Connect the 1x2 trans red plate over to secure the light.



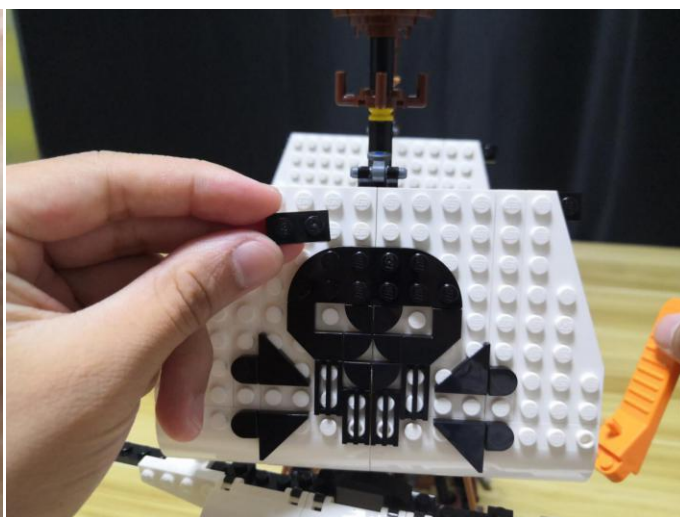
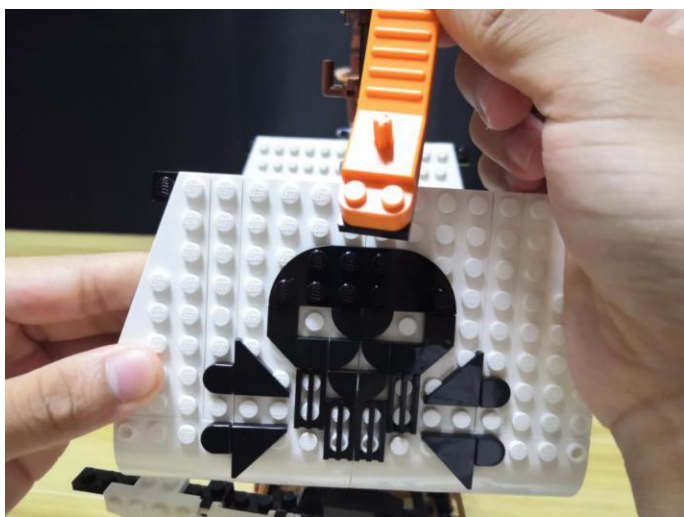
**86.**Group the 2 cables together as per below.



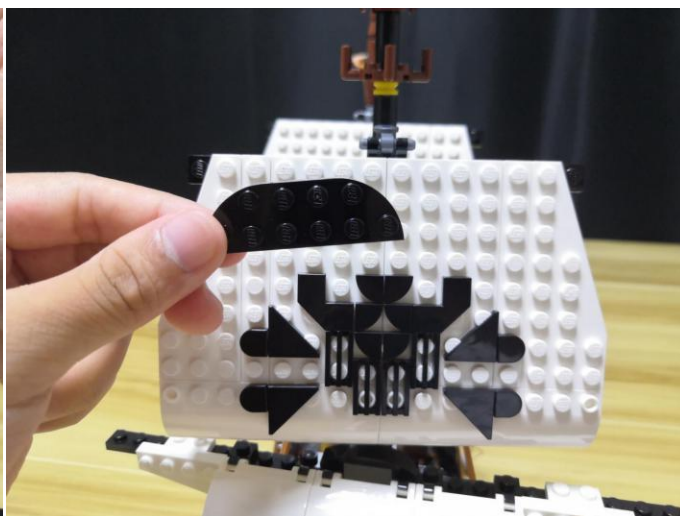
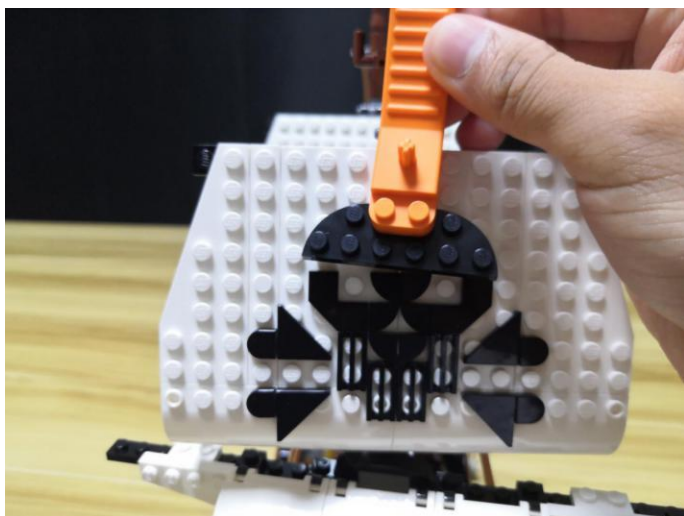
**87.** Turn to the sail with a skull on it.



**88.** Disconnect the following black piece with the tool.



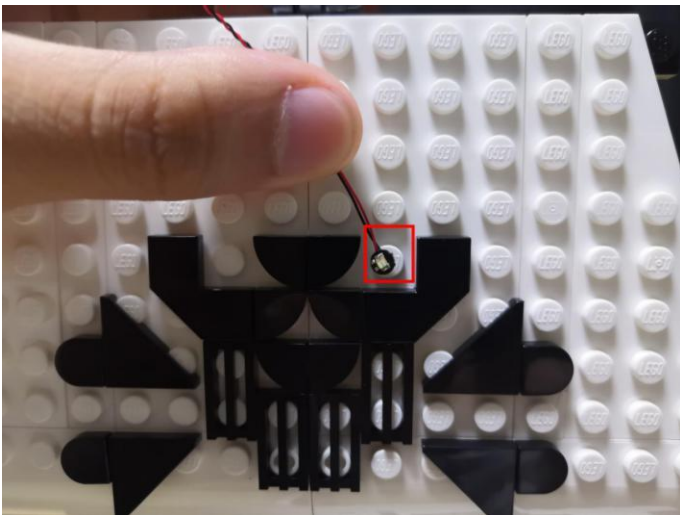
**89.** Continue to disconnect the top of the skull.



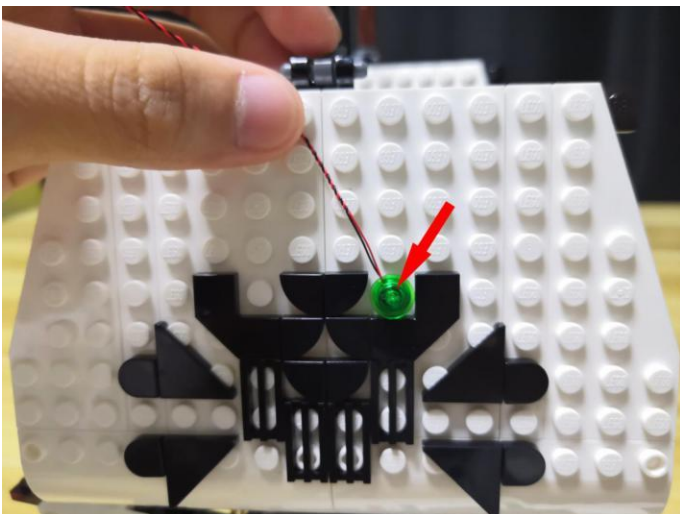
**90.**Take 2 green dot lights, 2 green 1x1 round plates.



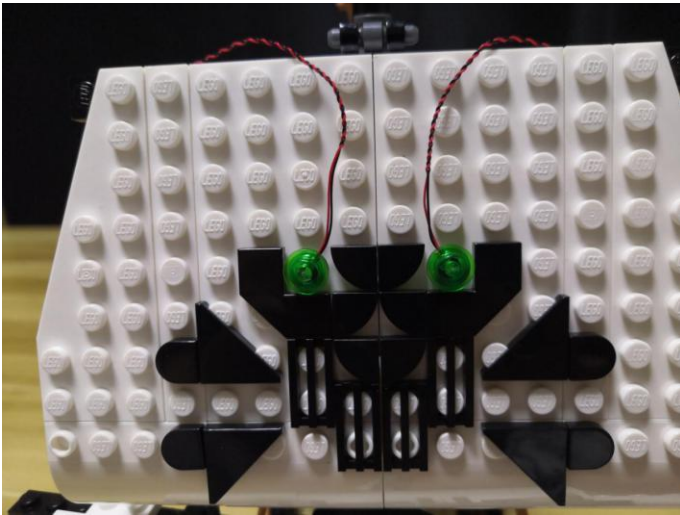
**91.**With lighting part facing up, place the light to the eye.



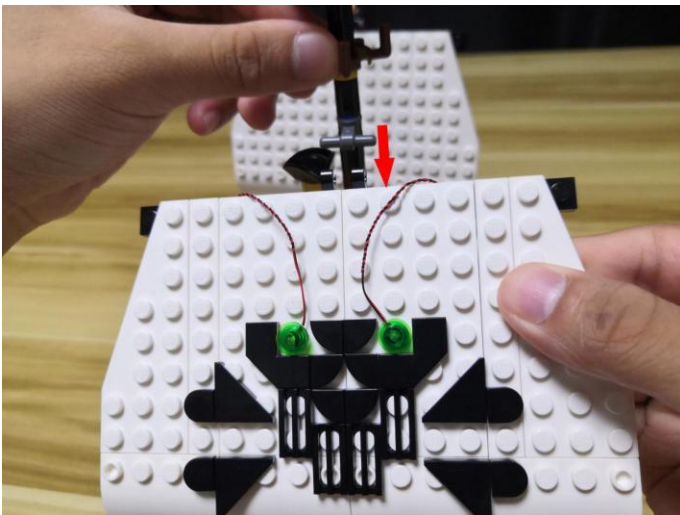
**92.**Connect the round plate over.



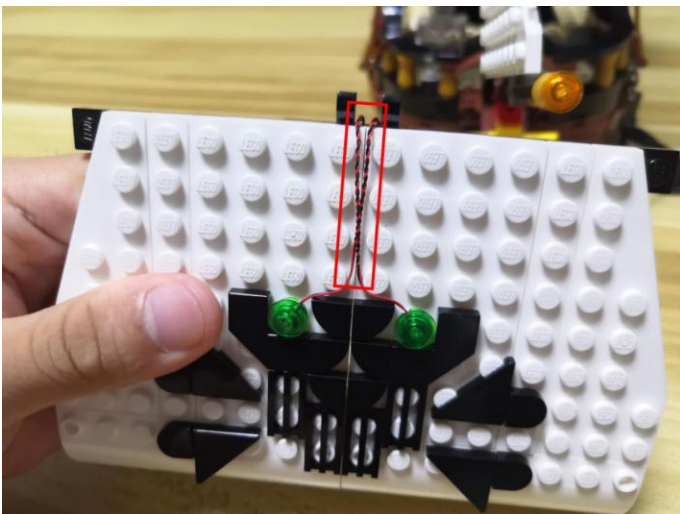
**93.** Repeat the previous steps to install light for the other eye.



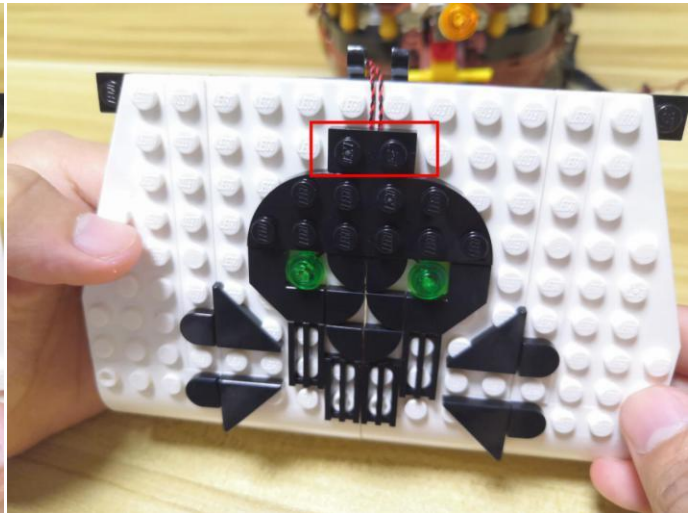
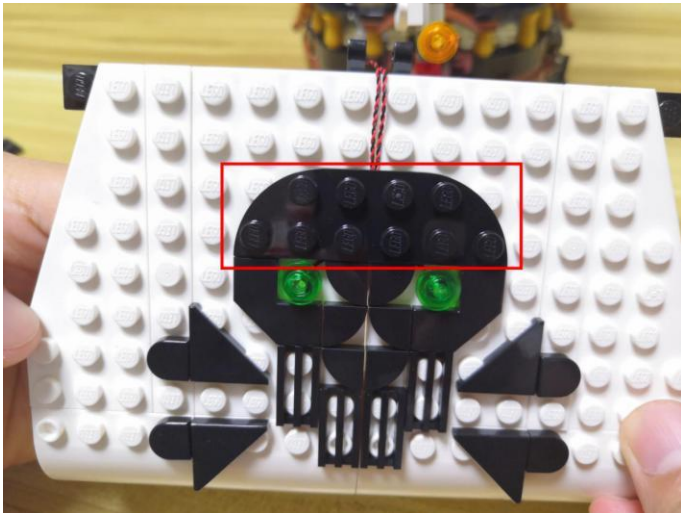
**94.** Pull the sail out.



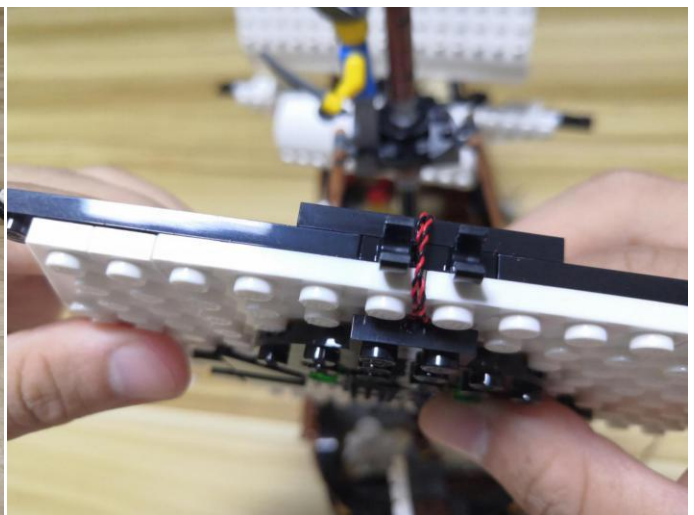
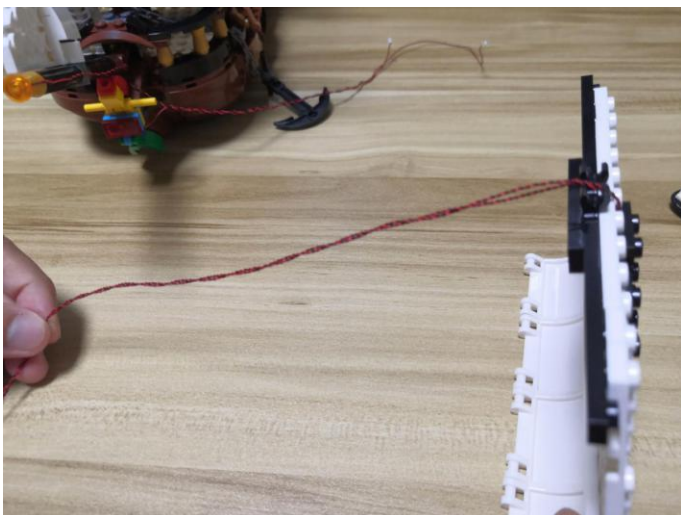
**95.** Place the 2 cables as per below.



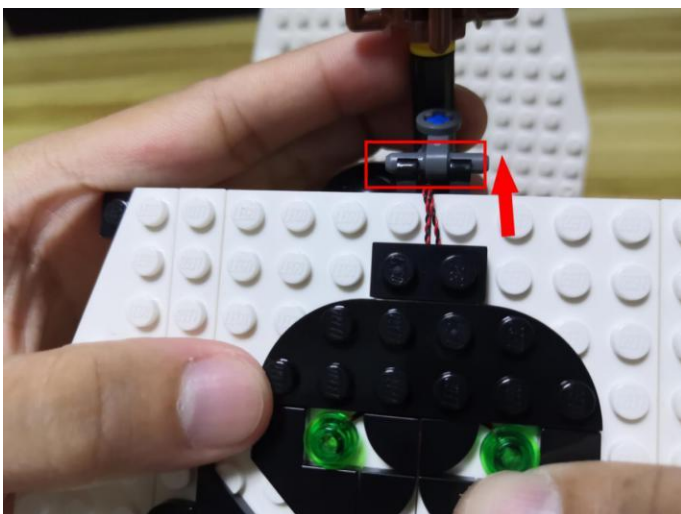
## 96. Reconnect the top of the skull.



## 97. Pull the cables back, tighten them up, group them together.

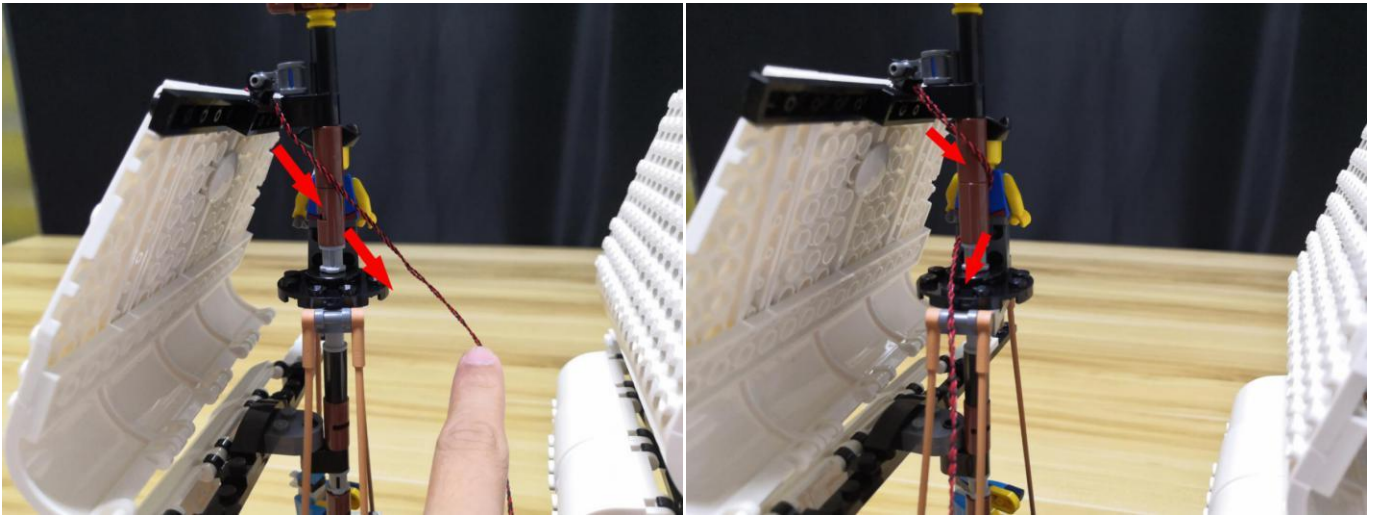


## 98. Reconnect the sail back on the mast.

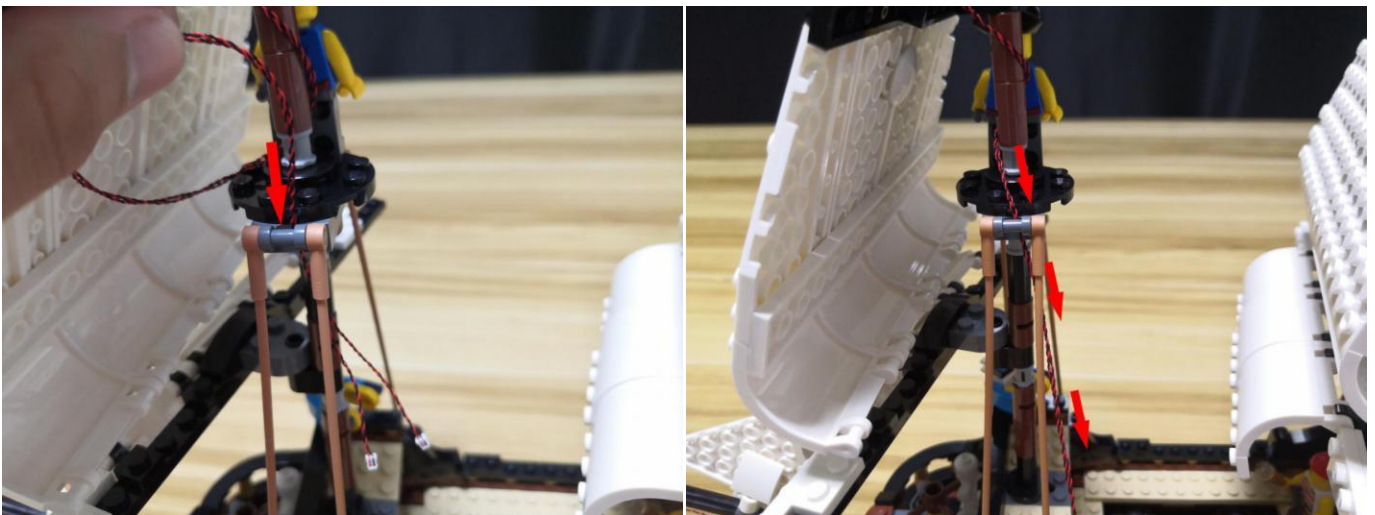




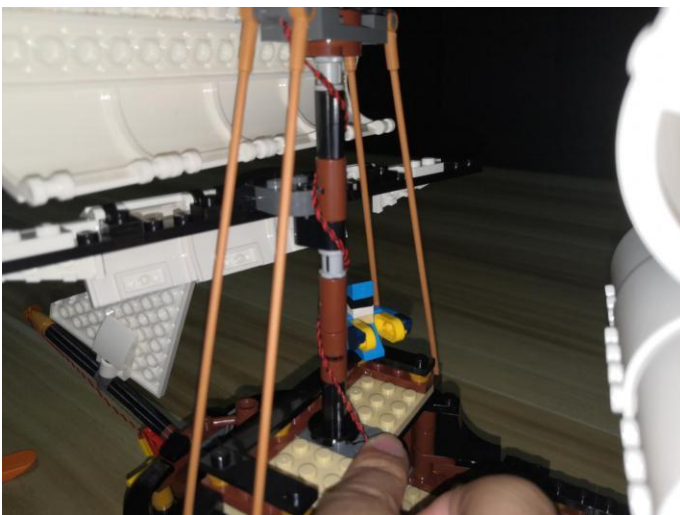
**99.** Pull the cables back, wind them around the mast as per below.



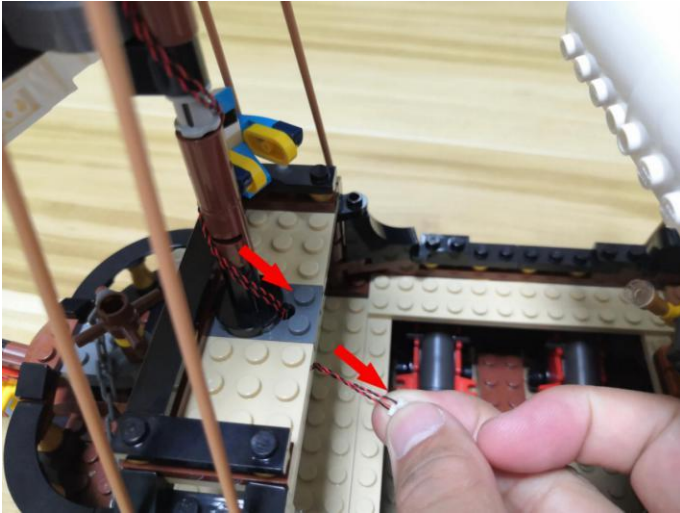
**100.** Thread the cables through the following space at the joint, pull them down and tighten them up.



**101.** Wind excess cables around the mast.



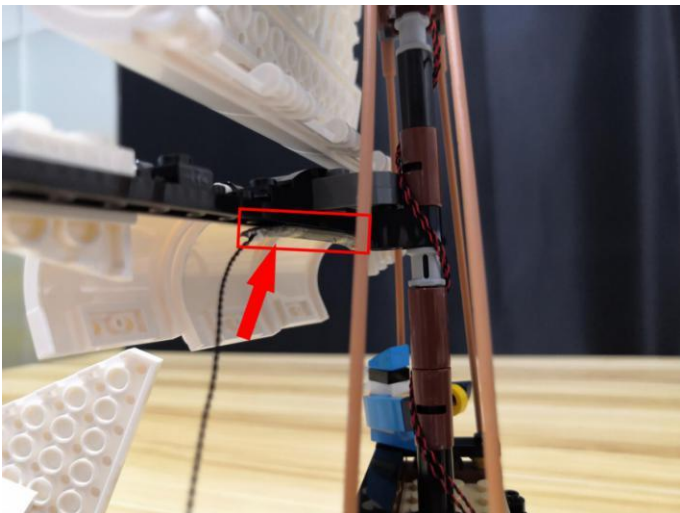
**102.** Thread the cables through the following hole.



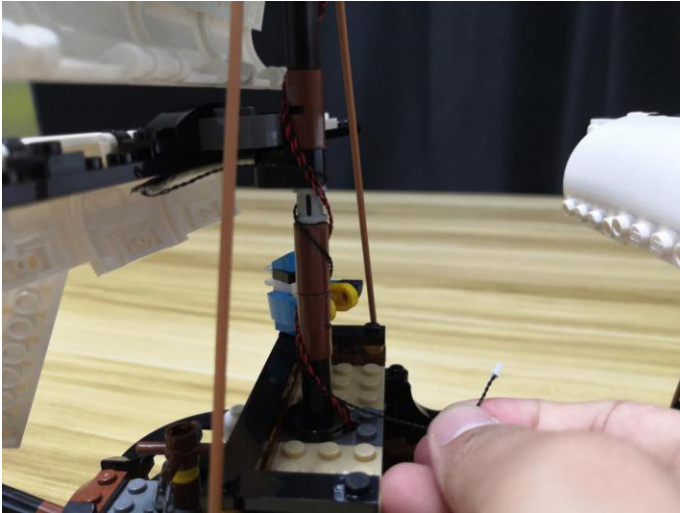
**103.** Take a warm white strip light, a 15cm connecting cable, assemble them as per below.



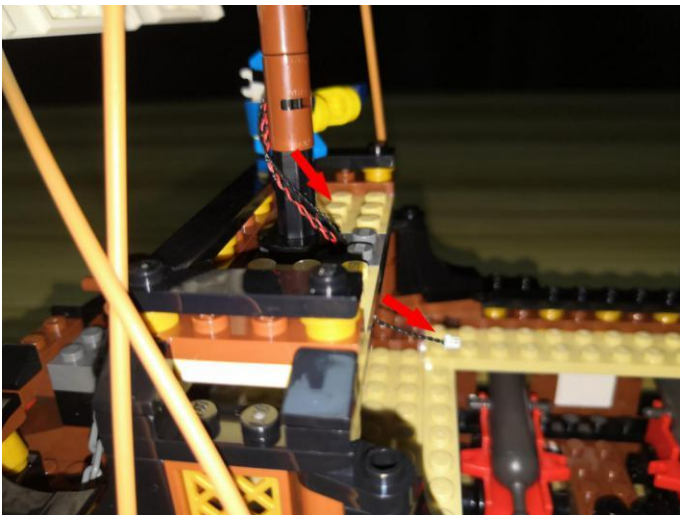
**104.** Stick the strip light to the following place.



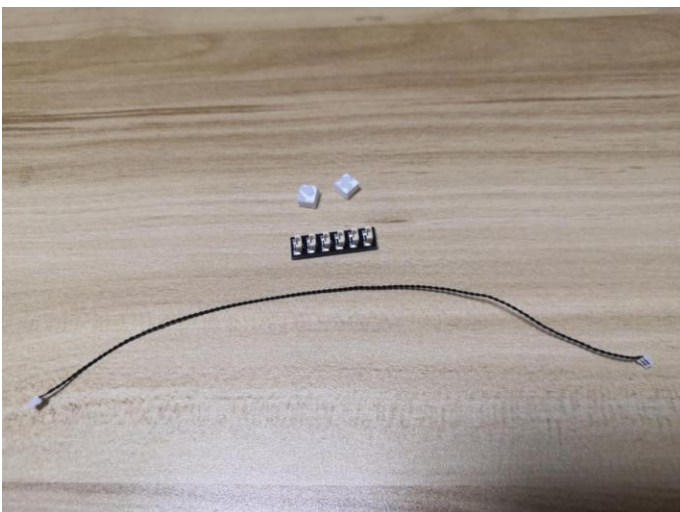
**105.**Wind the cable around the mast several times.



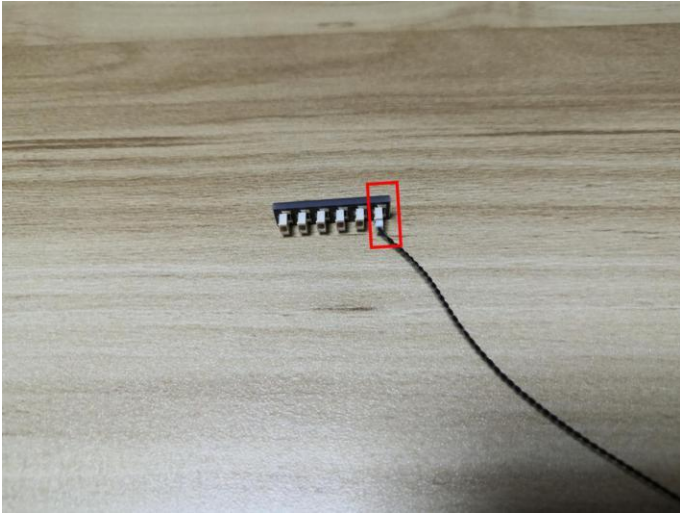
**106.**Thread the cable through the following hole.



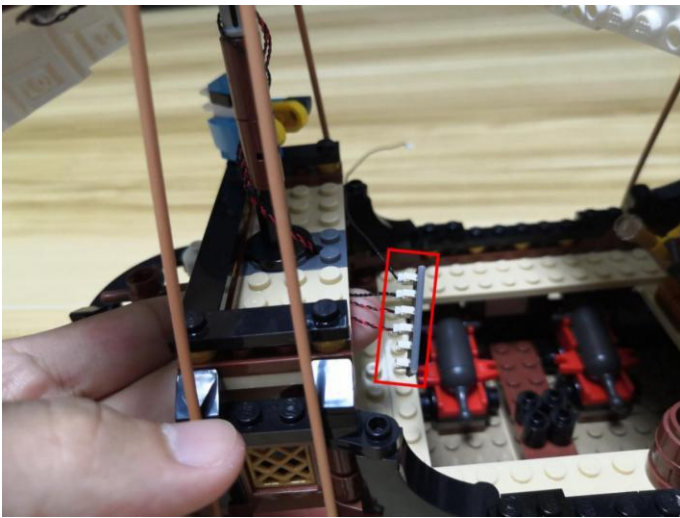
**107.**Take a 6-port expansion board, a 15cm connecting cable, 2 adhesive squares.



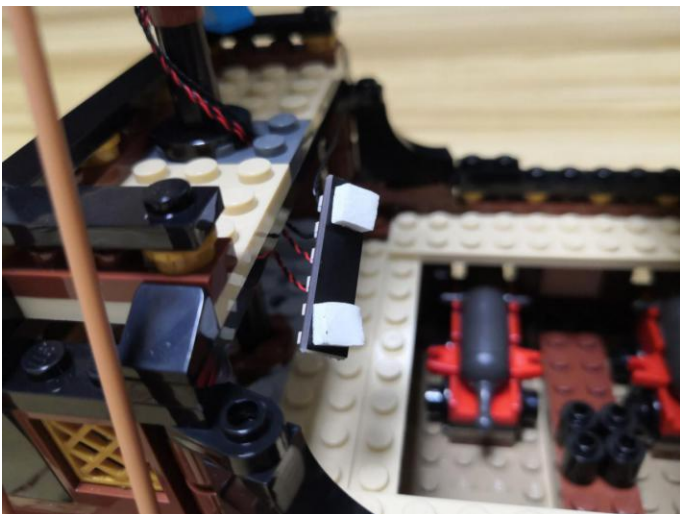
**108.**Connect the 15cm connecting cable to the expansion board.



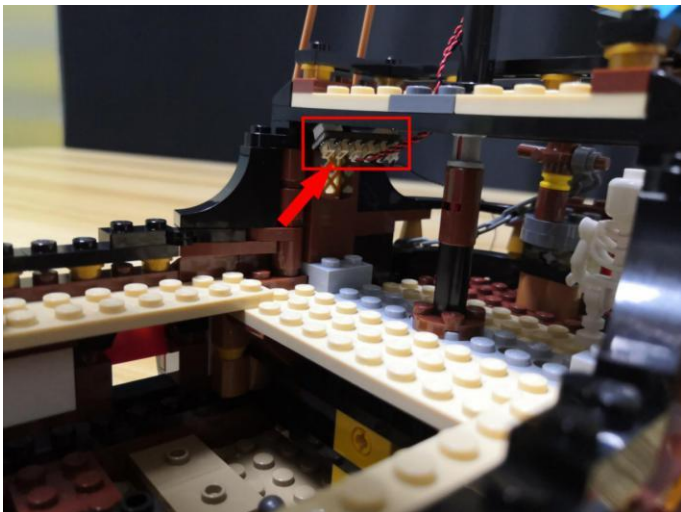
**109.**Connect the 3 cables from the mast to the expansion board.



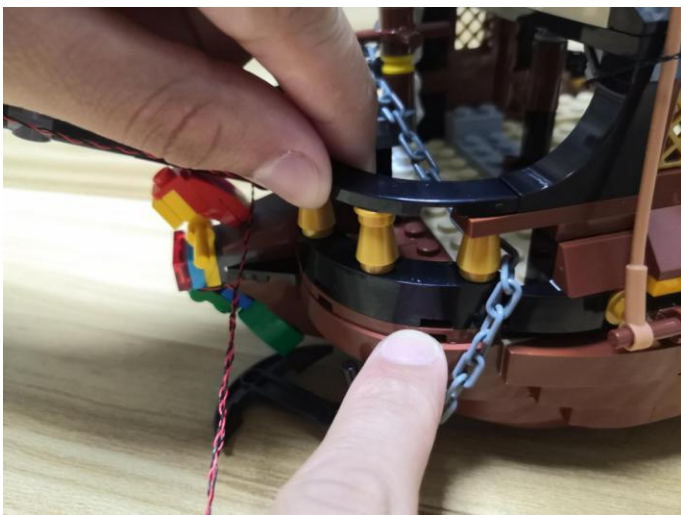
**110.**Stick the adhesive squares to the back of the expansion board.



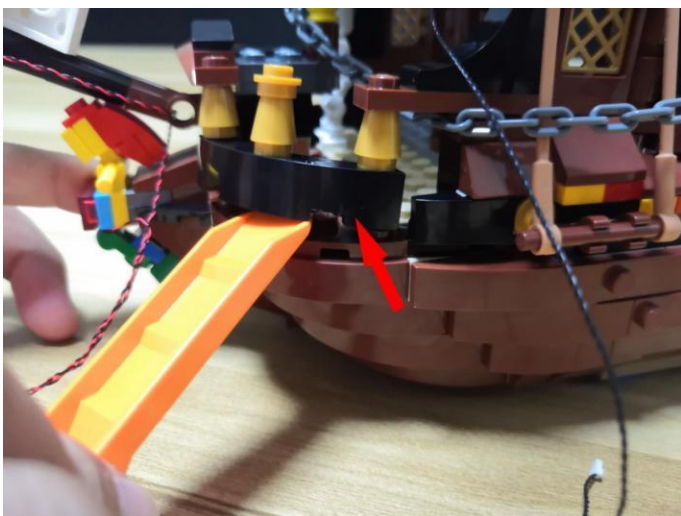
**111.**Stick the expansion board to the following place.



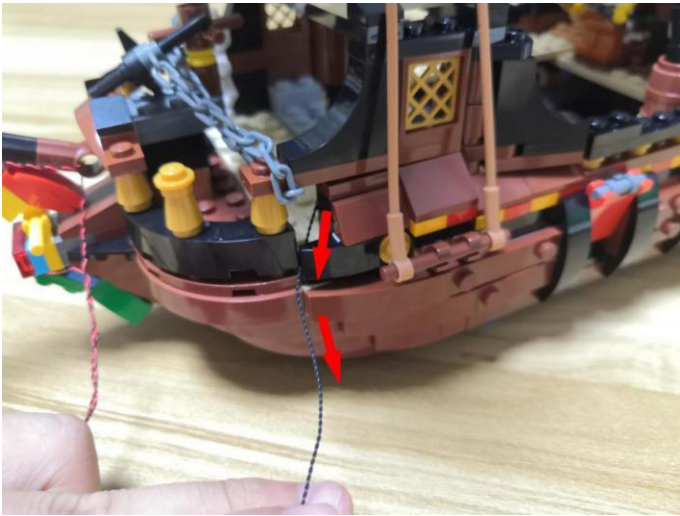
**112.**Turn to the head, disconnect the railings.



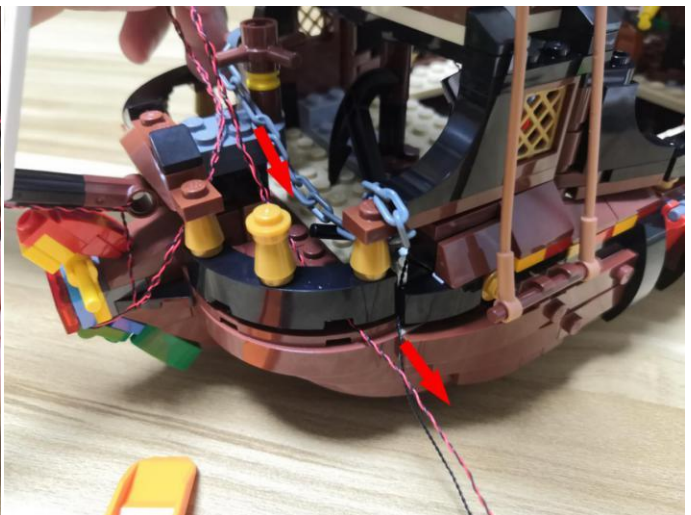
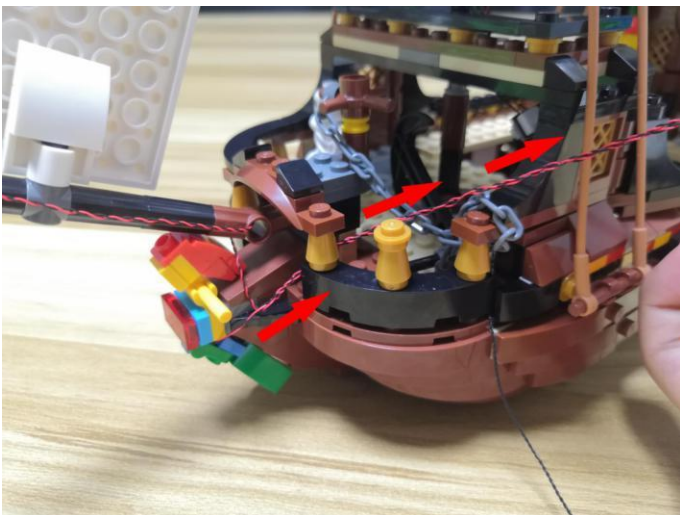
**113.**Create a space at the following place with the tool.



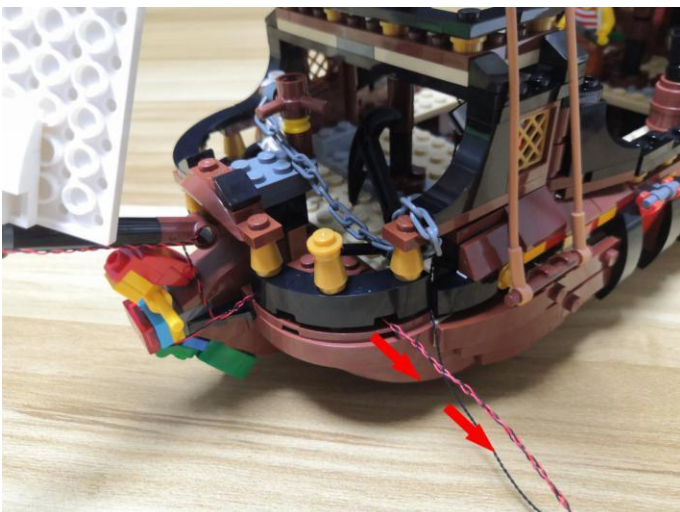
**114.** Pull the 15cm connecting cable out from the head, stuck it at the space as per below.



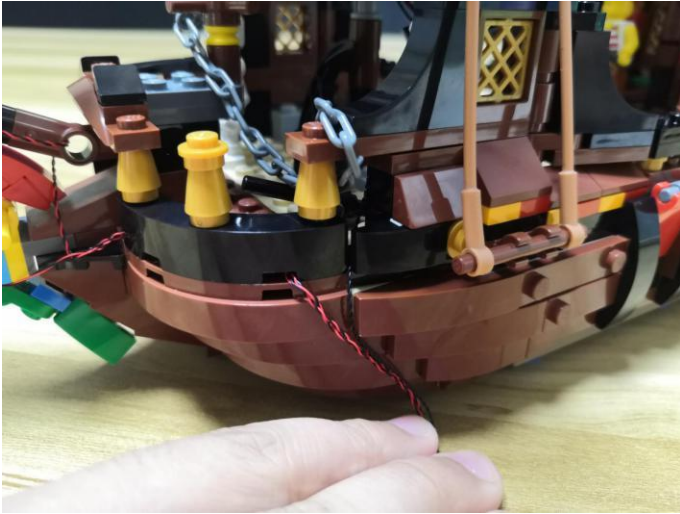
**115.** Pull the 2 cables out from the head, and thread them through the space we created.



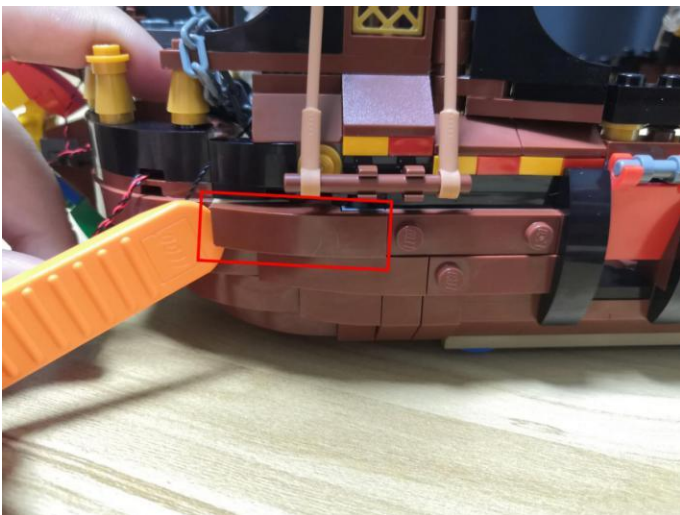
**116.** Tighten the cables up.



**117.** Group the connecting cable and the cables of the lights together.



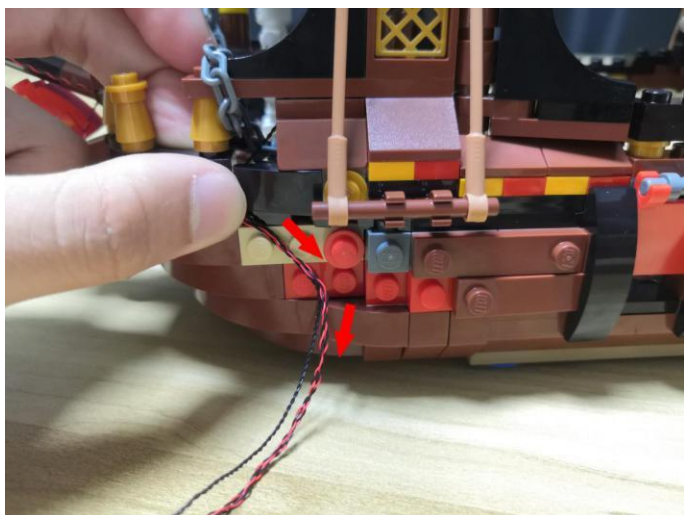
**118.** Disconnect the following piece.



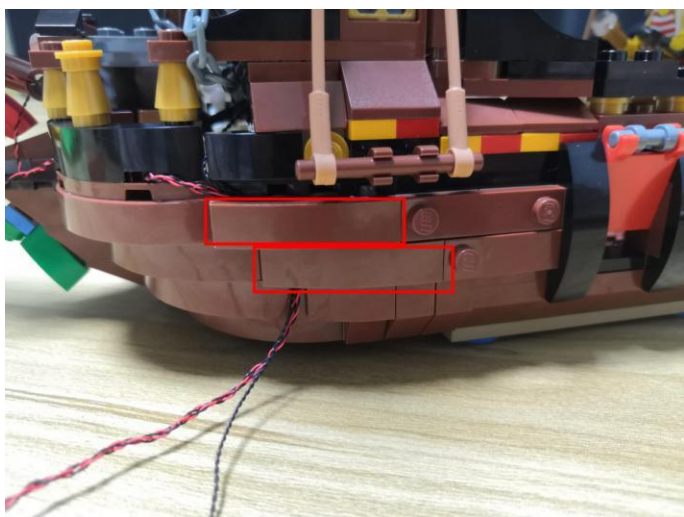
**119.** Continue to disconnect the following piece.



**120.**Place the cable in between studs as per below.



**121.**Reconnect the 2 pieces we removed before.

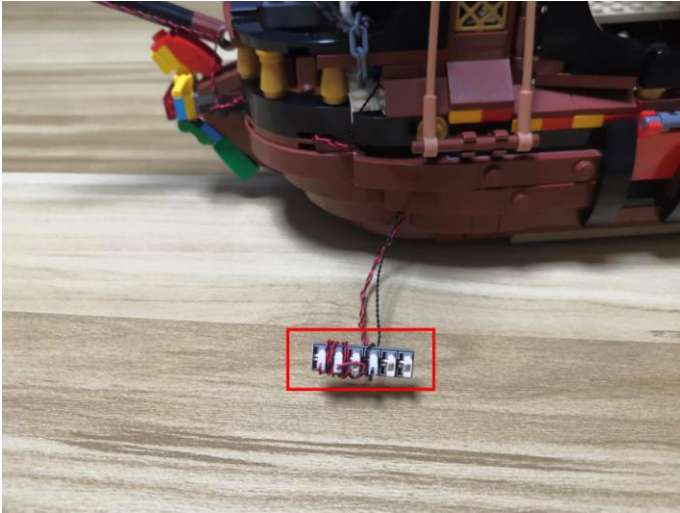


**122.**Take a 6-port expansion board, 2 adhesive squares.





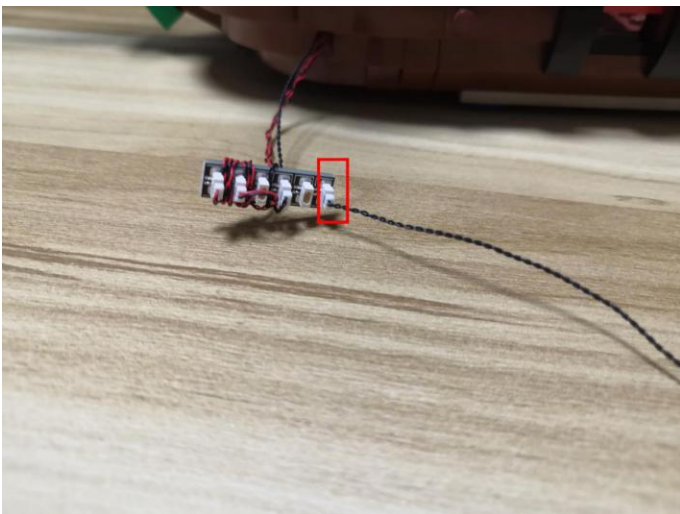
**123.**Connect the 3 cables from the head to the expansion board.



**124.**Take a 30cm connecting cable.



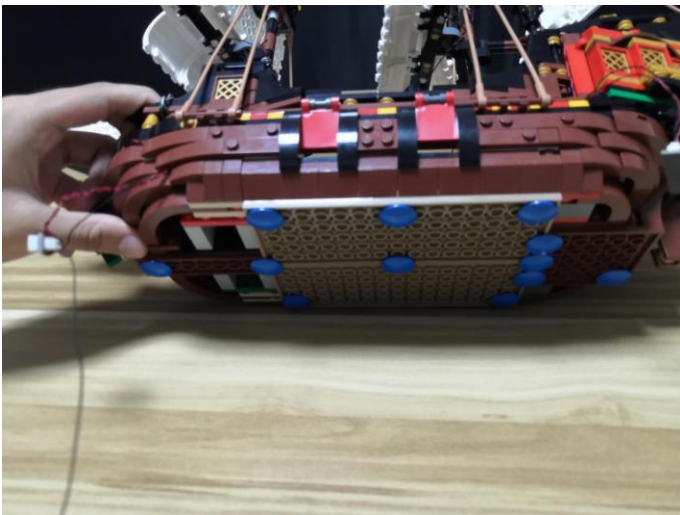
**125.**Connect it to the expansion board.



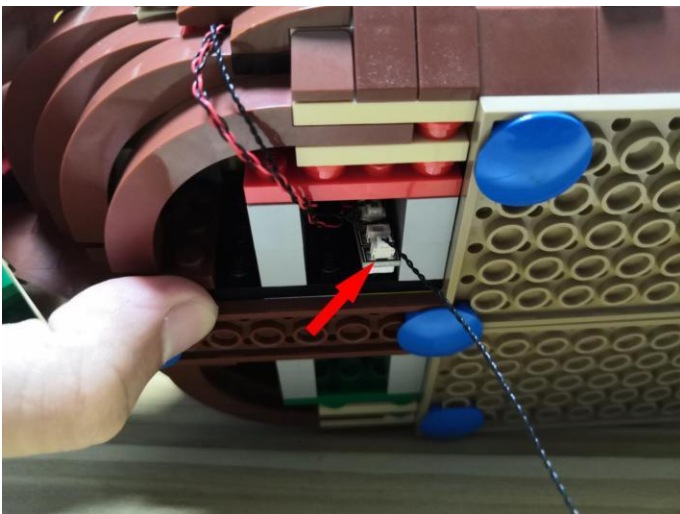
**126.**Stick the adhesive squares to the back of the expansion board.



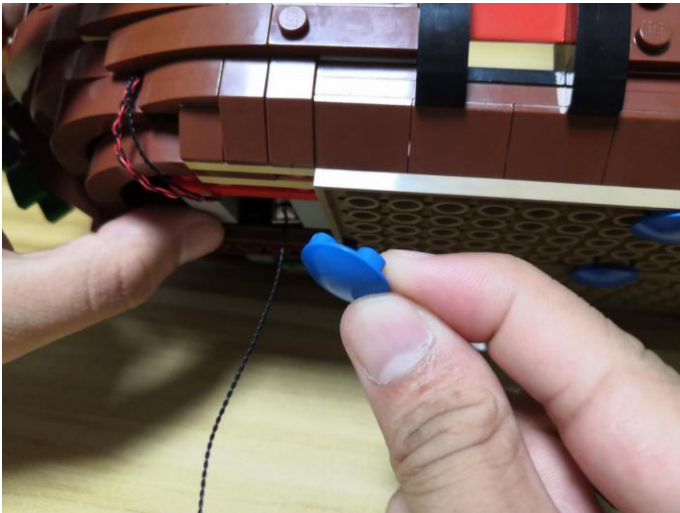
**127.**Lift the ship.



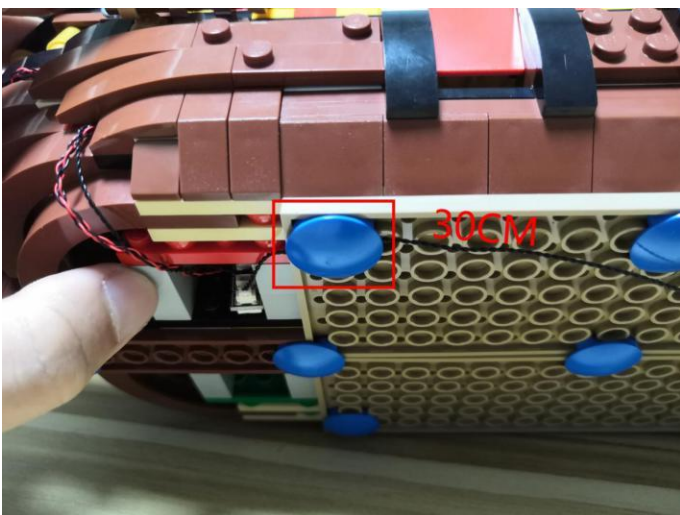
**128.**Stick the expansion board to the following place underneath.



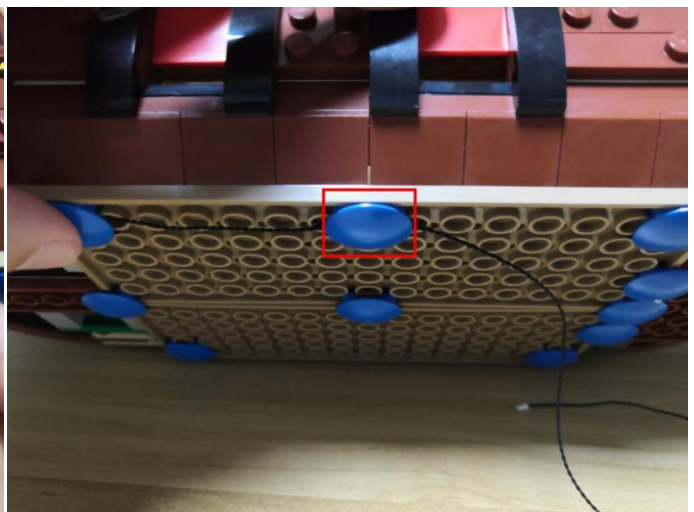
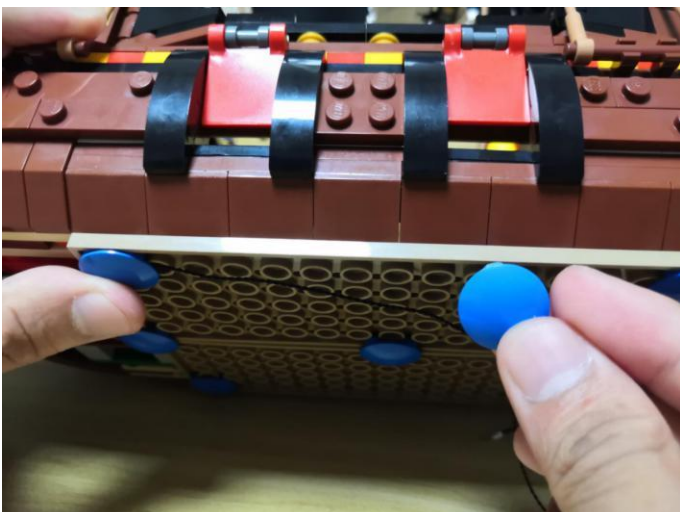
**129.** Disconnect the following blue round plate from the bottom.



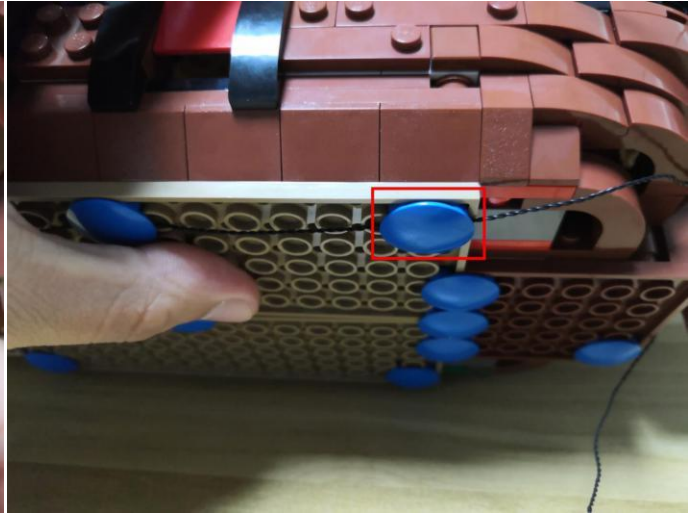
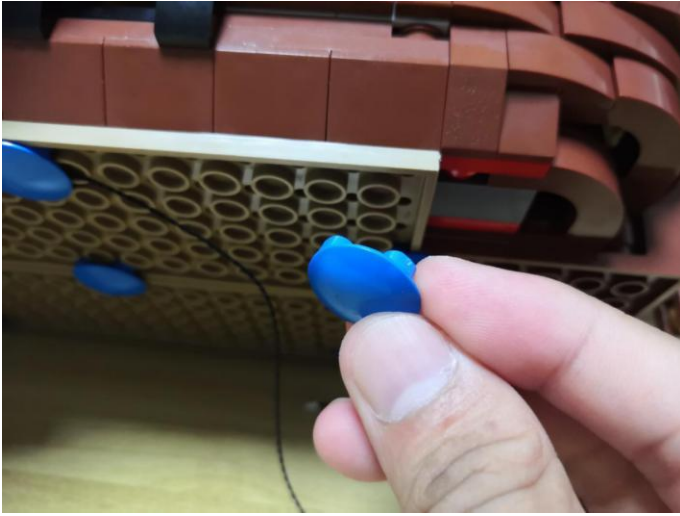
**130.** Place the 30cm connecting cable at the following place, reconnect the round plate to secure the cable.



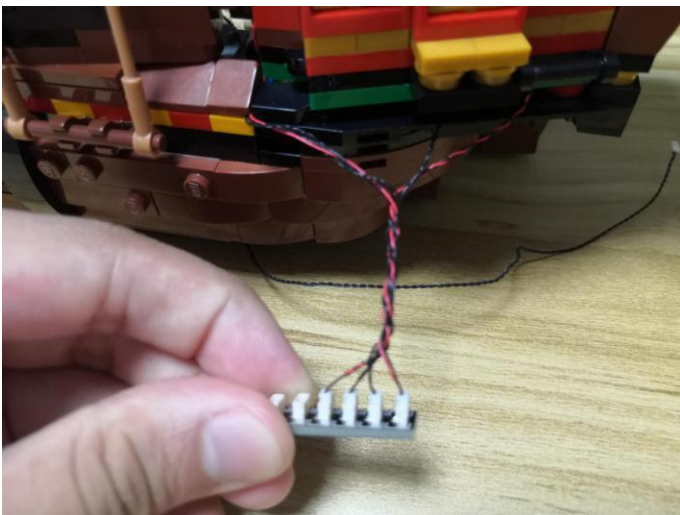
**131.** Continue to disconnect the second blue round plate and secure the cable with it.



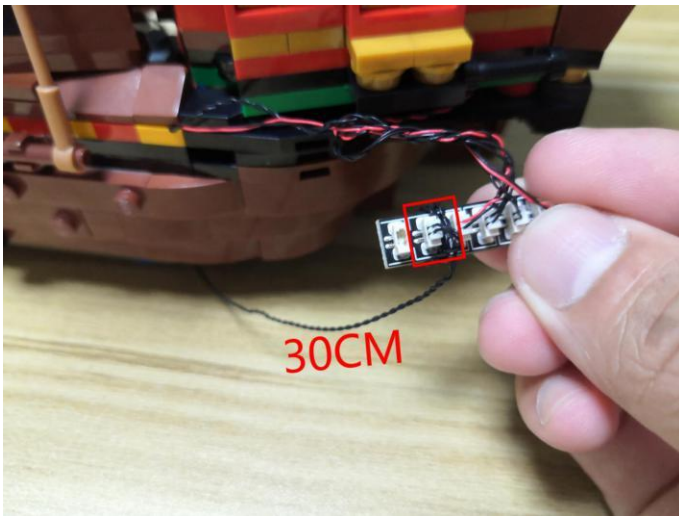
**132.** Disconnect the third blue round plate and secure the cable with it as per below.



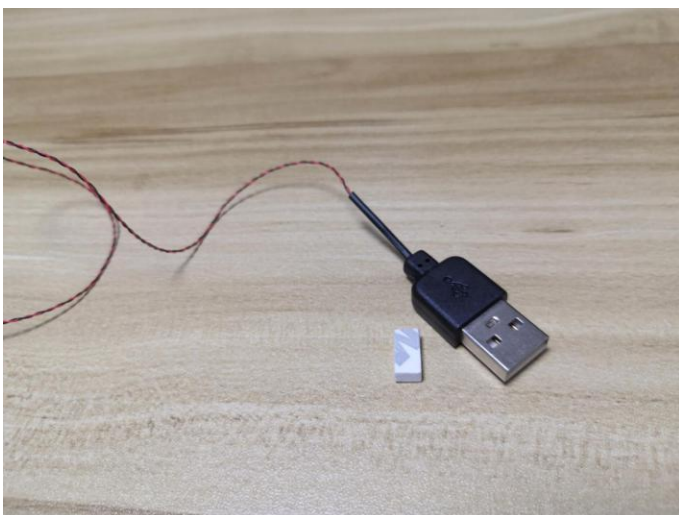
**133.** Group the cables from the tail together.



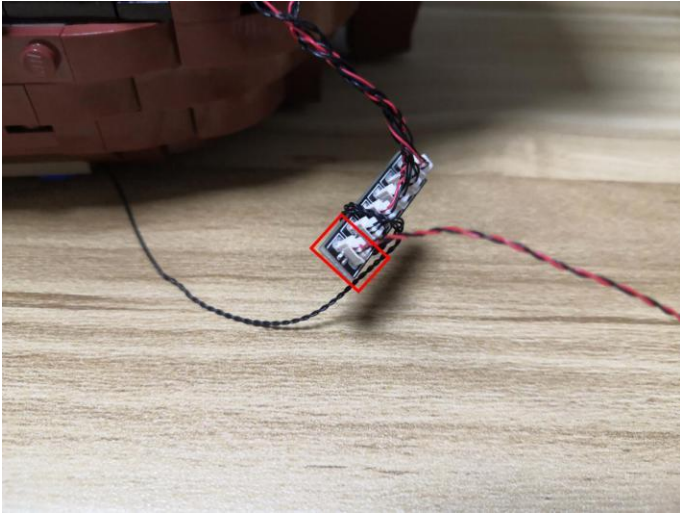
**134.**Connect the other end of the 30cm connecting cable to the expansion board at the tail.



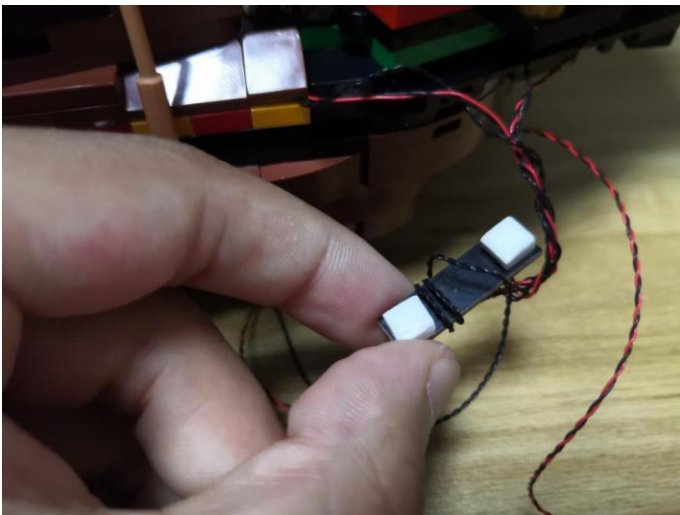
**135.**Take a USB cable, 2 adhesive squares.



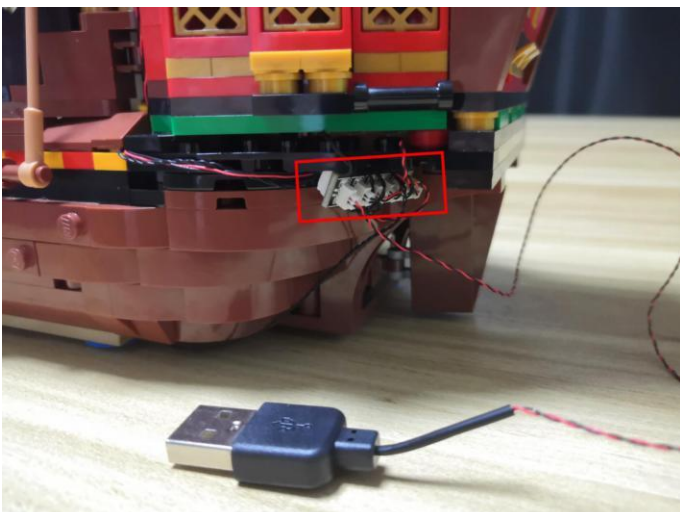
**136.**Connect the USB cable to the expansion board.



**137.**Stick the adhesive squares to the back of the expansion board.



**138.**Stick the expansion board to the following place, press the cables underneath the expansion board.



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

