

# Ghostbusters™ ECTO-1 10274 LIGHT KIT Remote Control Version

Thank you for choosing our lighting products. We are committed to LEGO product study and lighting development, we're always trying our best to provide LEGO fans with the best products and the best installation ideas.

Must be careful observation, imagination can be infinite.

We provide basic parts to support your imagination.

DO IT YOURSELF .that's what LEGO is .

As always, Lego has been adhering to the DIY philosophy from product selection, research and development to sales. Consumers buy the parts, you will assemble them by yourself, and you can experience every step from picking up the first piece to installing the last one. Besides, LEGO has different answers for the installation form and method of each part. Vonado lighting also does not want to kill your unlimited creativity, we will try our best to make products with high variability, high playability and unlimited play. If you have any dissatisfaction or your own ideas on the parts such as the color of the lights, the length of the cables, the installation position of the product, and the final effects of each module, you can make your own arrangement, and we will cooperate with you to replace or repurchase.

LETS MOVE!

## Package contents:

- 2 x 30cm Red Dot Lights
- 2 x 30cm White Dot Lights
- 14 x 15cm White Dot Lights
- 3 x 15cm Red Dot Lights
- 2 x 15cm Yellow Dot Lights
- 2 x 15cm Green Strip Lights (with 7 lights)
- 2 x Warm White Strip Lights
- 3 x 6-port Expansion Boards
- 1 x 8-port Expansion Board
- 1 x 12-port Expansion Board
- 4 x 5cm Connecting Cables
- 1 x 10cm Connecting Cable
- 1 x 30cm Connecting Cable
- 2 x 50cm Connecting Cables
- 1 x Remote Control Switch Board
- 1 x Flicker Effects Board
- 1 x USB Cable

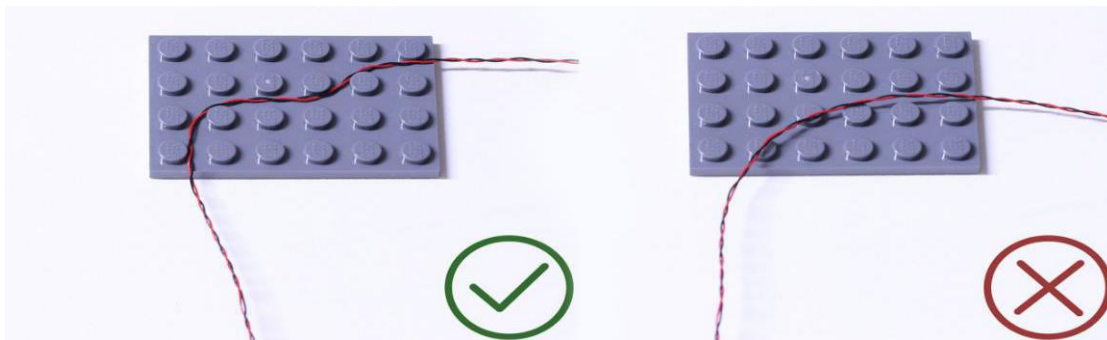
Extra pieces



### Note:

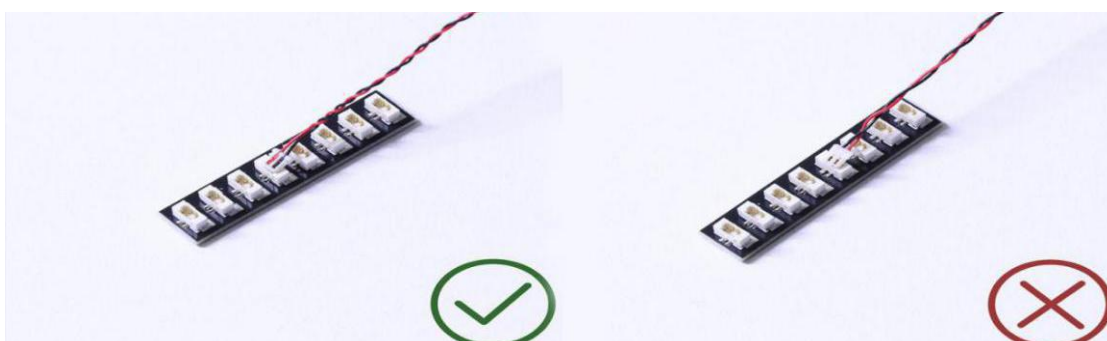
Place wires on the surface or under the building blocks.

The wire can be placed between the building blocks or under the block, but they should be placed between the studs correctly.

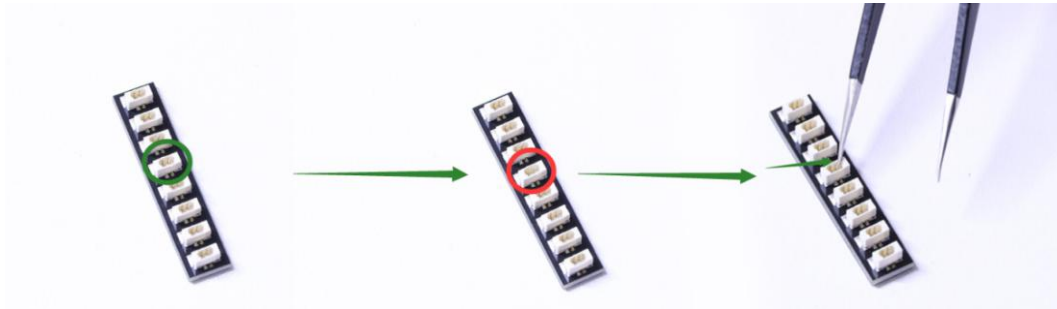


Insert the connectors to the ports.

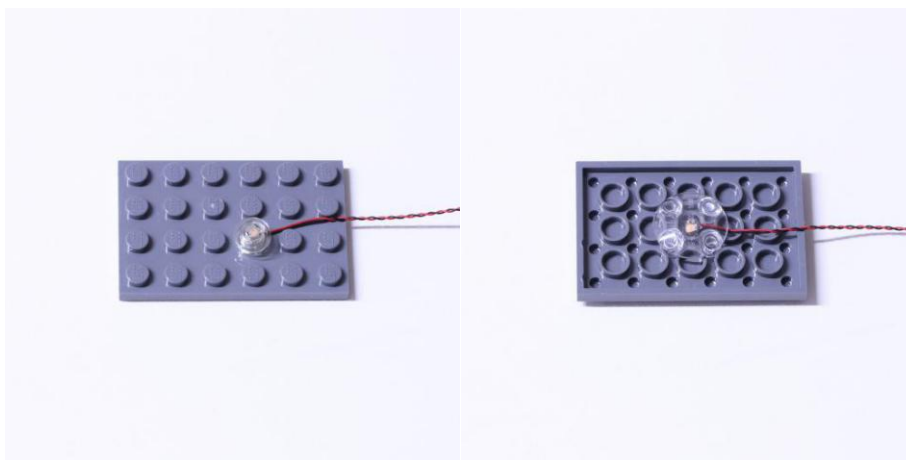
Be careful when you are operating, there's only one correct way to insert, make sure the expansion board is upward, find the soldered "=" sign on the left of the port. When you are inserting, the side which the wires can be seen should be faced to the "=" sign and if you feel hard to insert, please stop, and don't force it, for that may result in bent pins inside the port or overheating of the expansion board.



At this point, use the tweezers to straighten the bent pins.

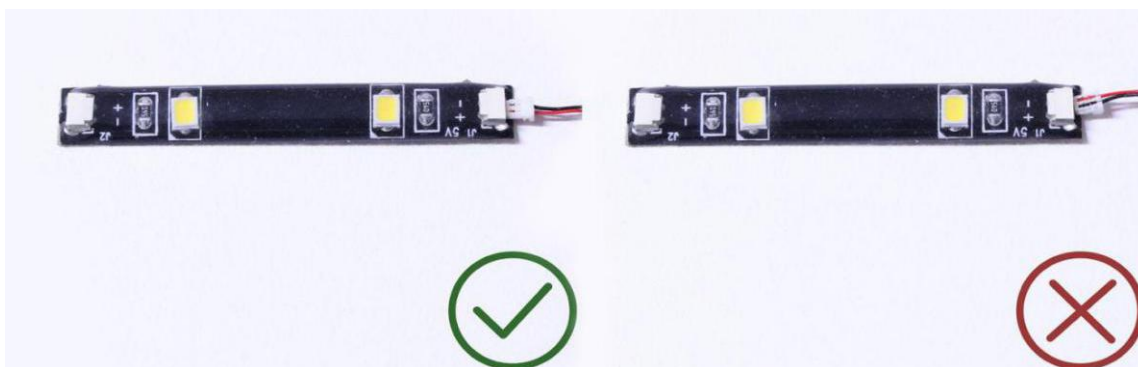


When installing dot lights, make sure they are correctly placed (Yellow LED package is exposed). You can put them either on the top of the studs or between studs.

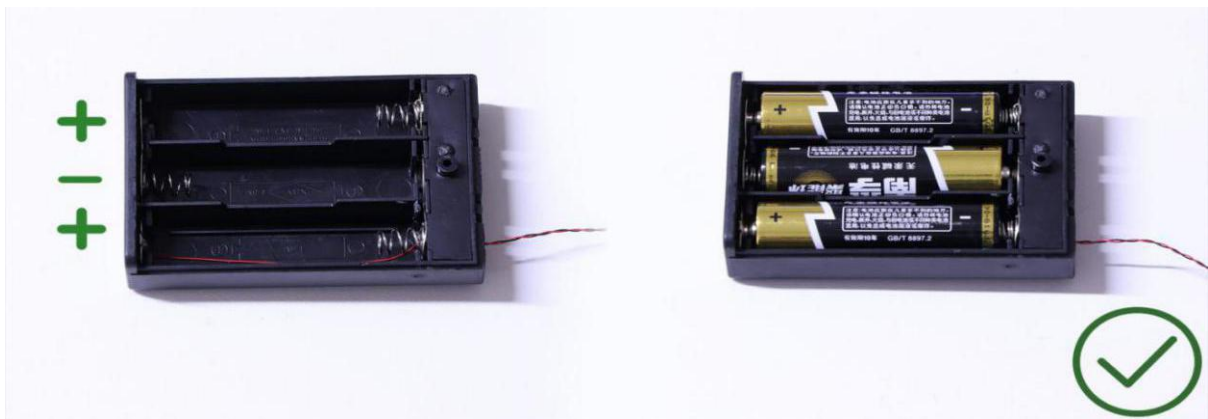


### Connecting cable connectors to Strip Lights

Take extra care when inserting connectors to ports on the Strip Lights. Connectors can be inserted only one way. With the Strip Light facing up, ensure the side of the connector with the wires exposed is facing down. If a plug won't fit easily into a port connector, don't force it. Doing so will damage the plug and the connector.

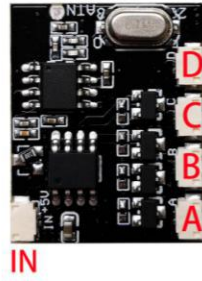


Finally, please pay attention to the positive and negative terminals of the battery when installing the battery case.





## Remote control function description



ON: All branches are opened

OFF: all branches are closed

A: open/close A road

B: open/close B road

C: open/close C road

D: open/close D road

FS: Turn on blinking for the last open channel

BLN: Start breathing for the last opened path

↑: Increase blinking/breathing rate

↓: Increase blinking/breathing rate

Brightness+: Increase brightness

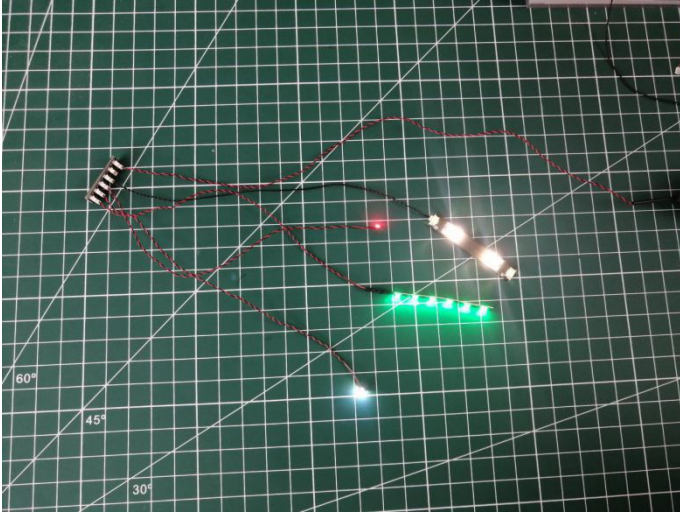
Brightness -: Reduce brightness

## Instructions for installing this kit:

Ghostbusters, ECTO-1 Remote Control Version, Lighting Kit, 16 bags in total.

Power supply: USB cable (self-contained power bank or mobile phone charger).

Firstly, take the power source (power bank or mobile phone charger), connect it to the USB cable, connect the other end of the USB cable to the expansion board to verify all the lights one by one.



After the verification, disconnect the lights and put them back to the bags.

(note: put the lights back to the bags when verification of the lights from the same bag is done, then, continue to verify the lights in another bag.)

OK, Let' s Begin! (you can use the tweezer if necessary.)

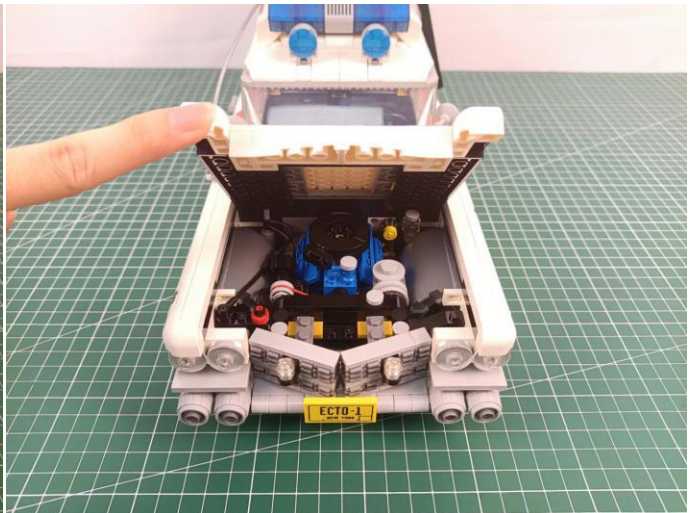
(Tips: the tweezer is sharp, you should be careful when using it, do not hurt yourself or scratch the pieces; be gentle and do not wear the cables.)

## Instructions for installing this kit:

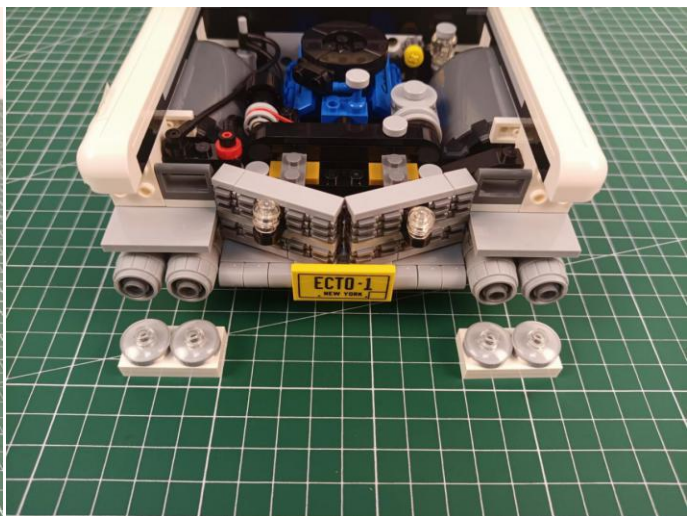
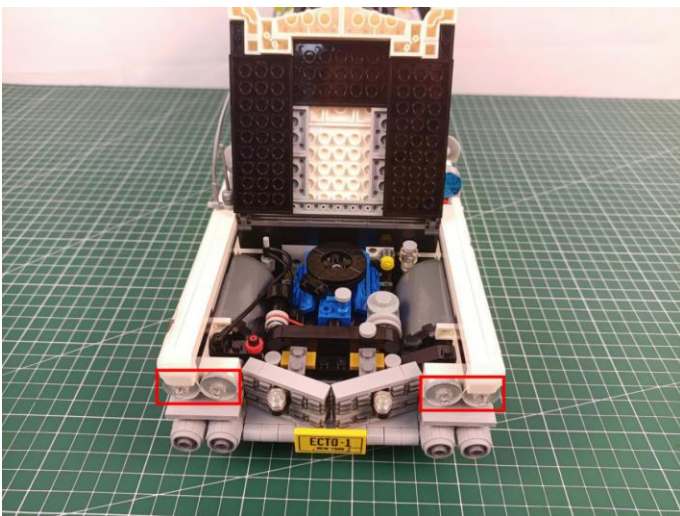
Take the car.



Turn to the head, open the engine.

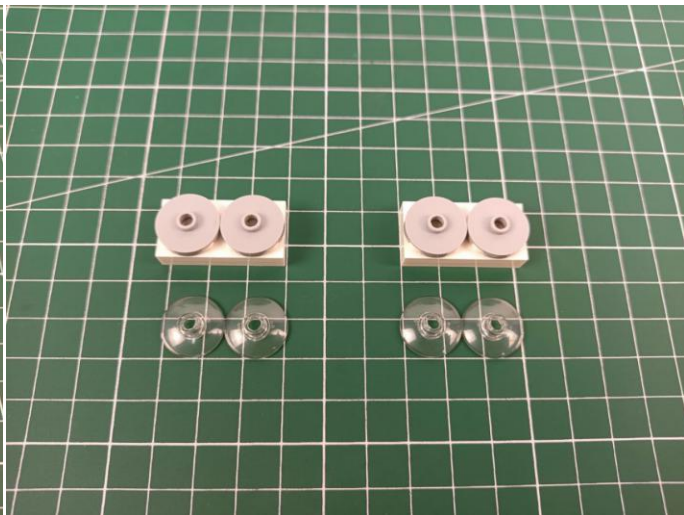
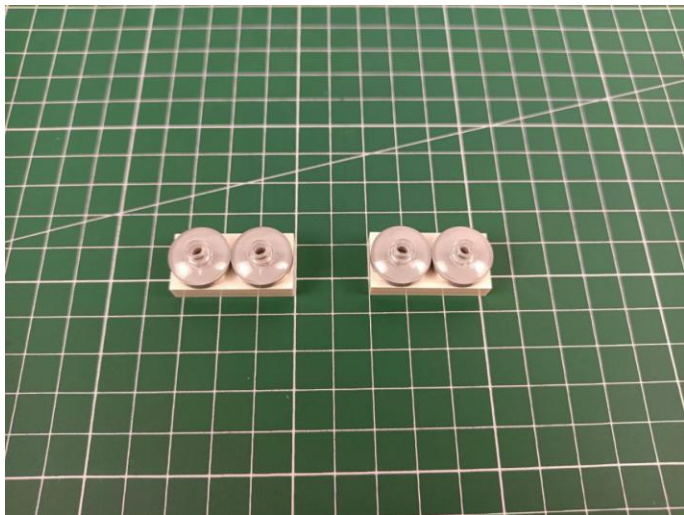


Remove the lights from both sides.

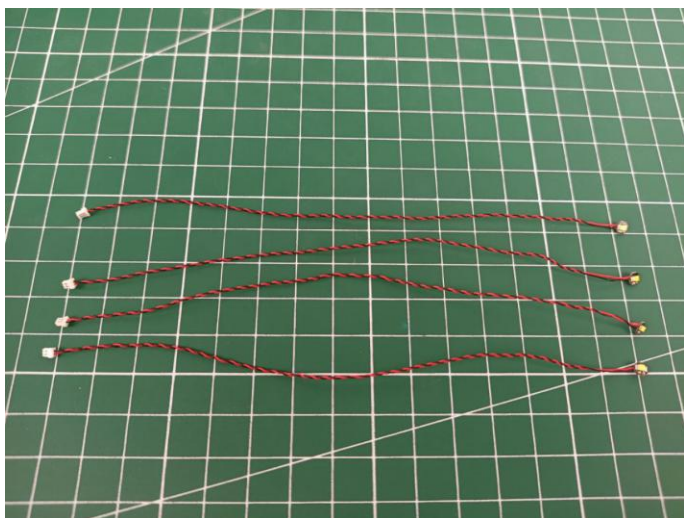


Disconnect the trans pieces from the lights.

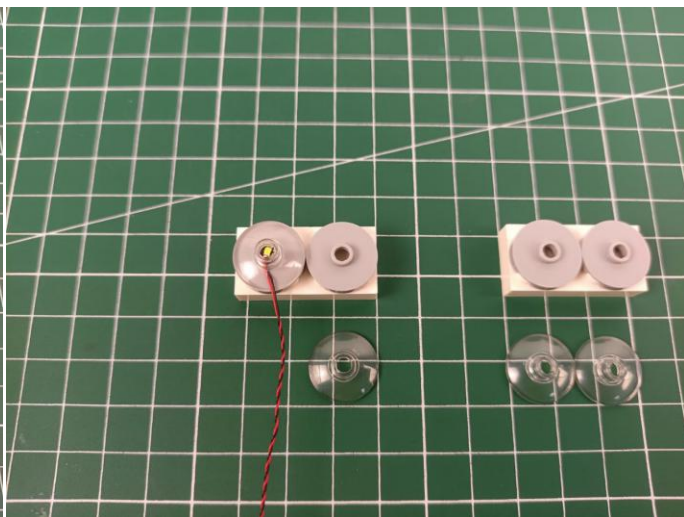
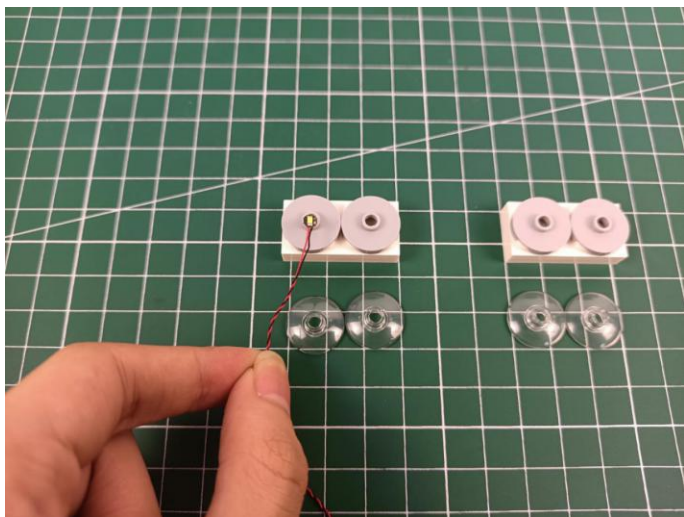




Take 4 white 15cm dot lights.



With lighting part facing up, reconnect the trans piece.

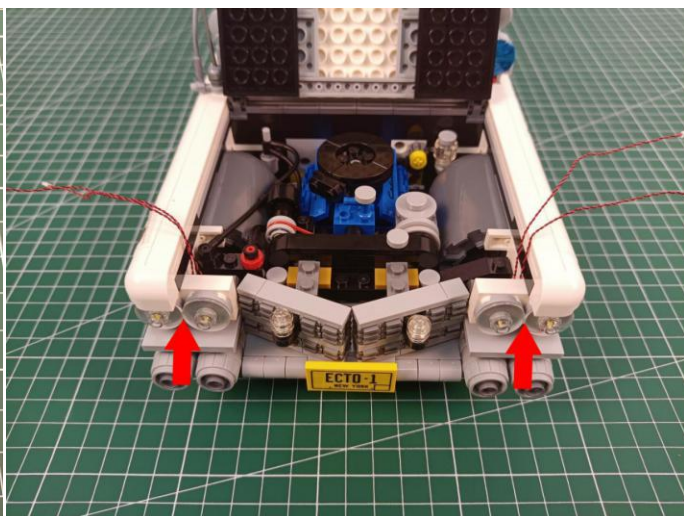


Install the other 3 lights in the same way.

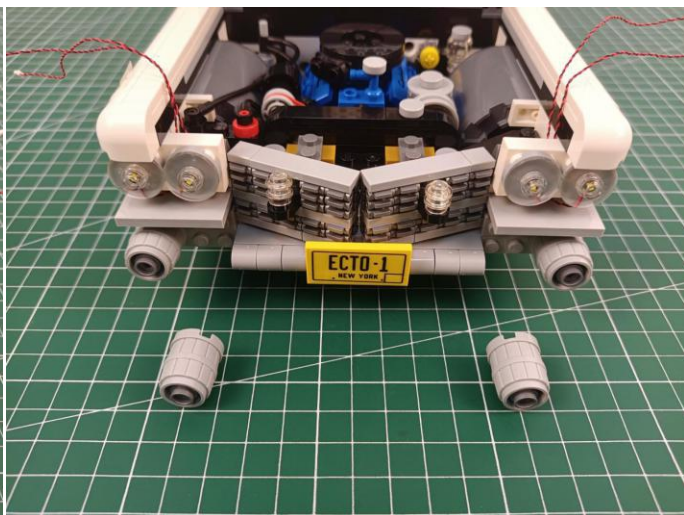
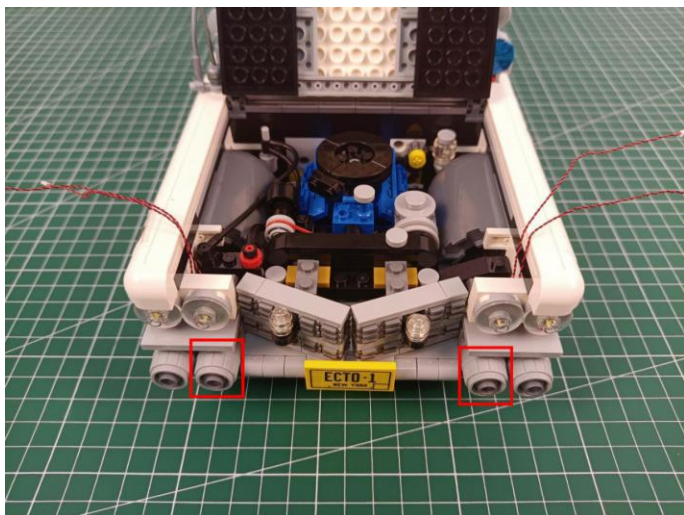




Place the cables as per below, reconnect the lights.

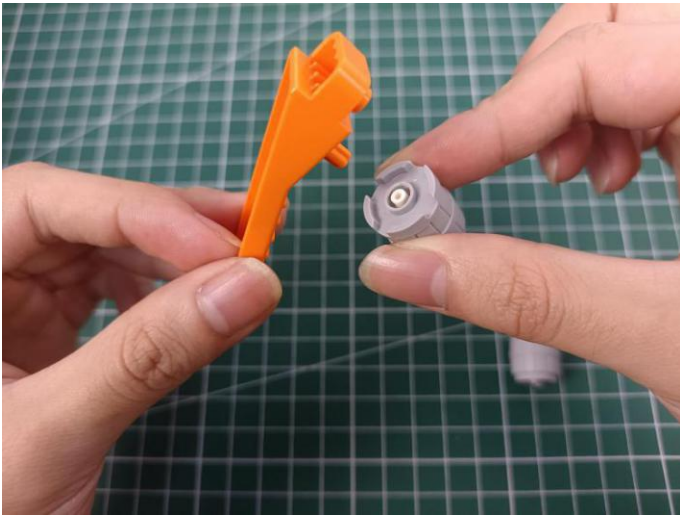


Remove the following gray pieces from both sides.

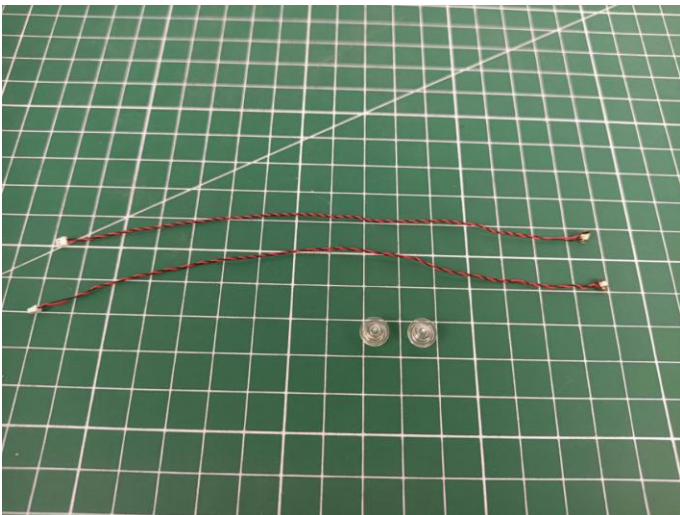


Disconnect the black pieces from the blue pieces.

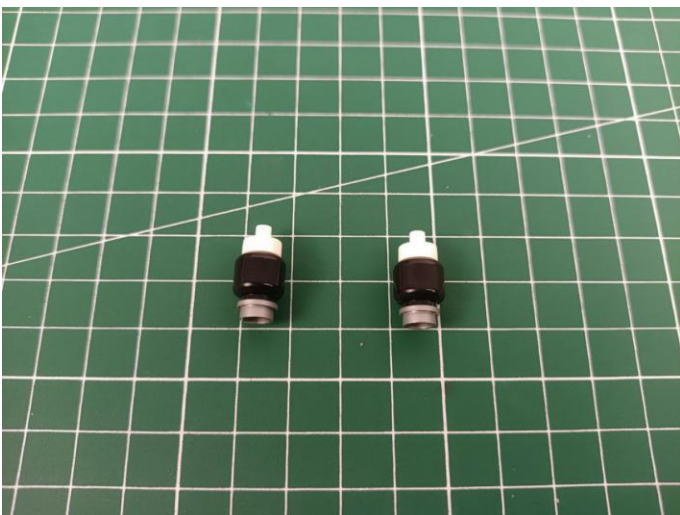




Take 2 red 15cm dot lights, 2 trans white 1x1 round plates.

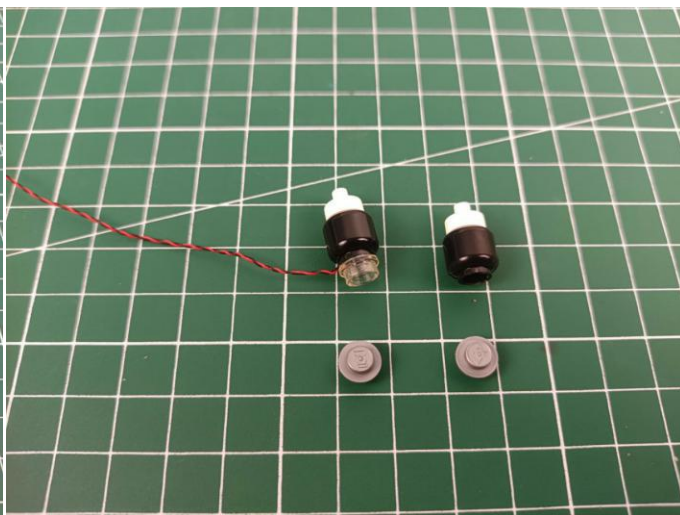
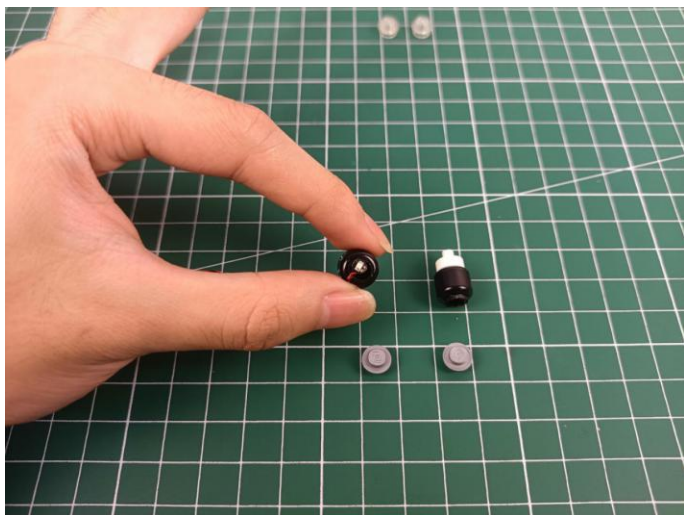


Disconnect the gray round plates.

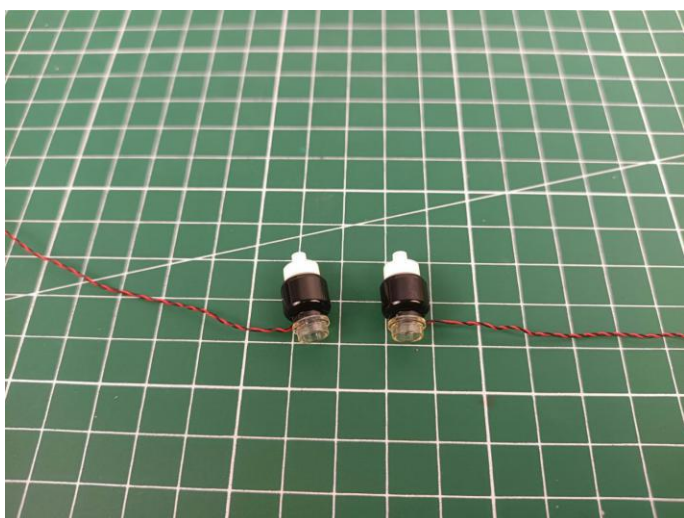


With lighting part facing up, connect the trans white round plate over as per below.

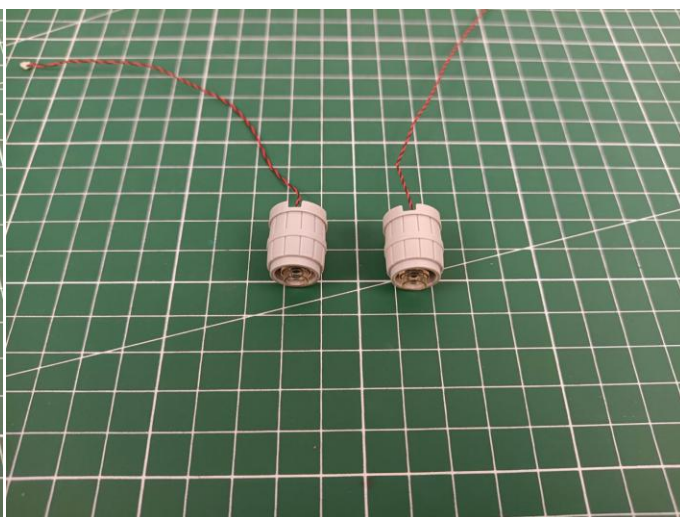
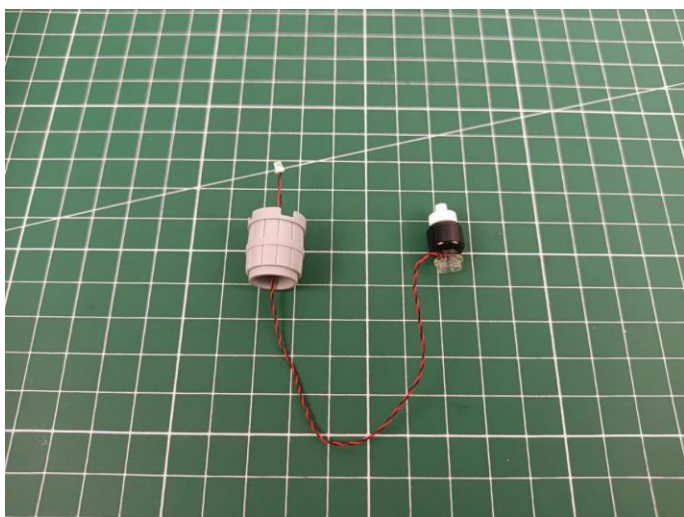




Install the other light in the same way.

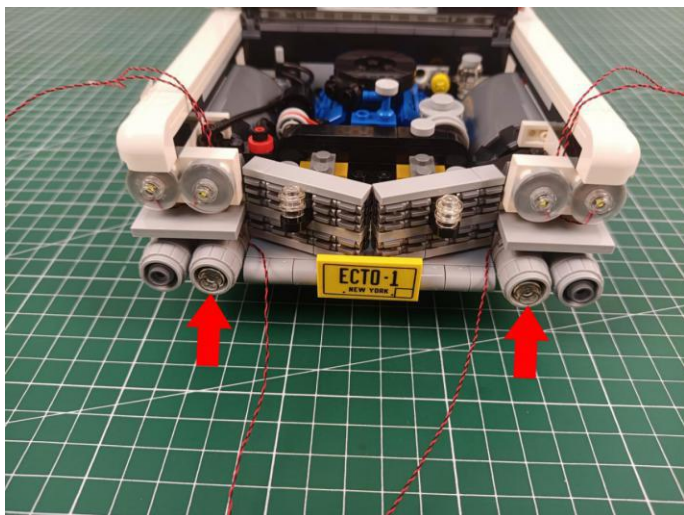


Thread the cable through the gray piece and reconnect the black piece.

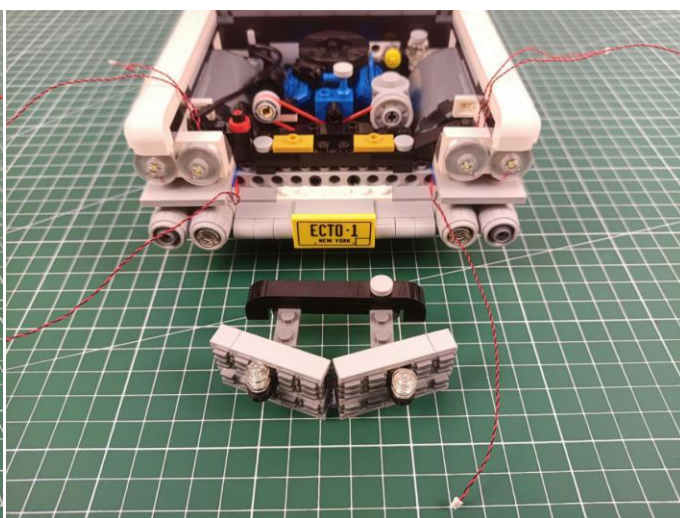
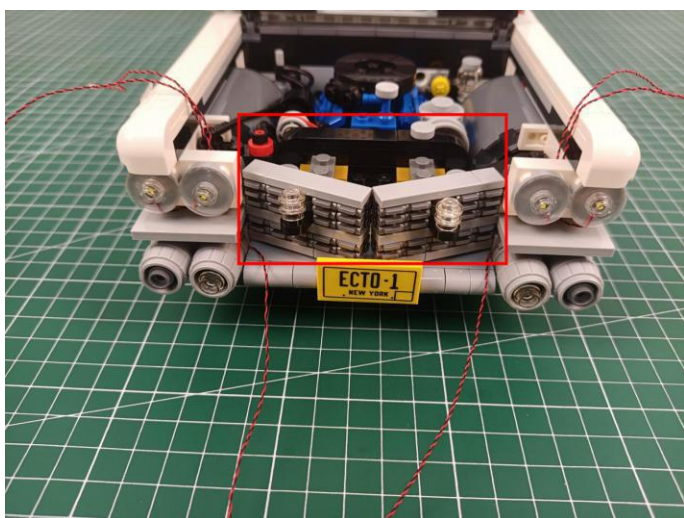


Reconnect the gray pieces.

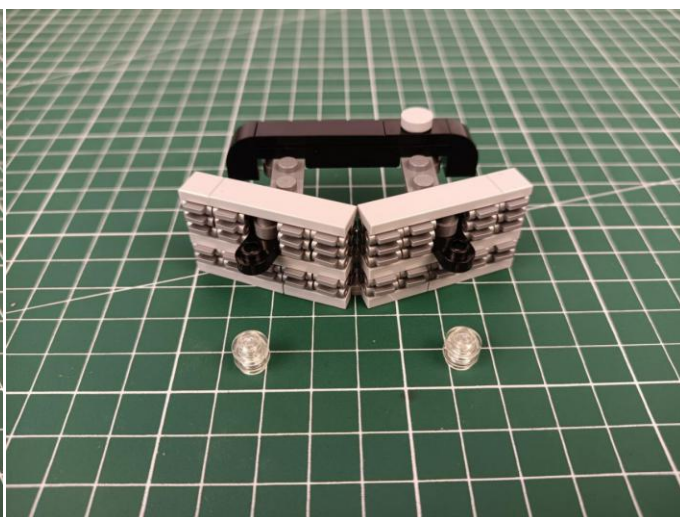




Disconnect the following gray piece.

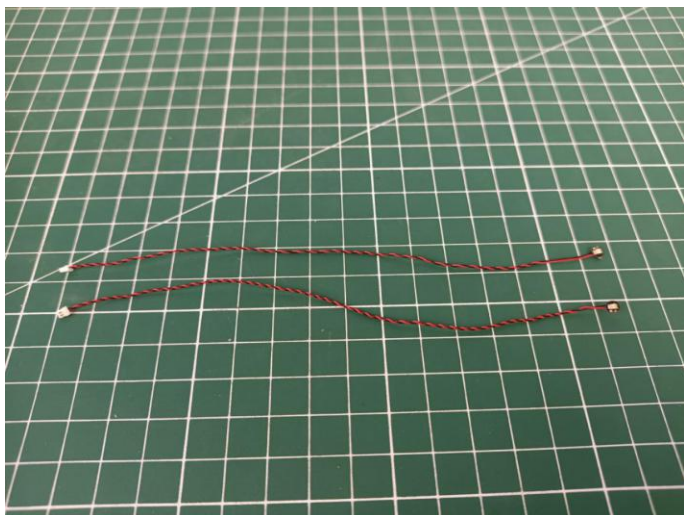


Remove the following 2 trans white round plates.

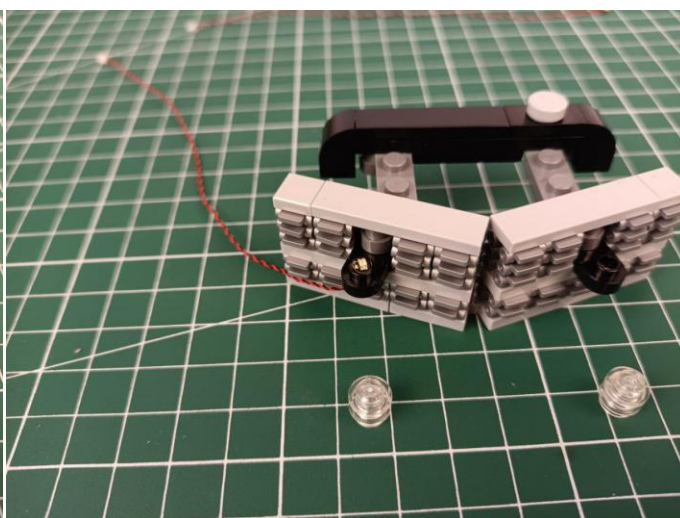
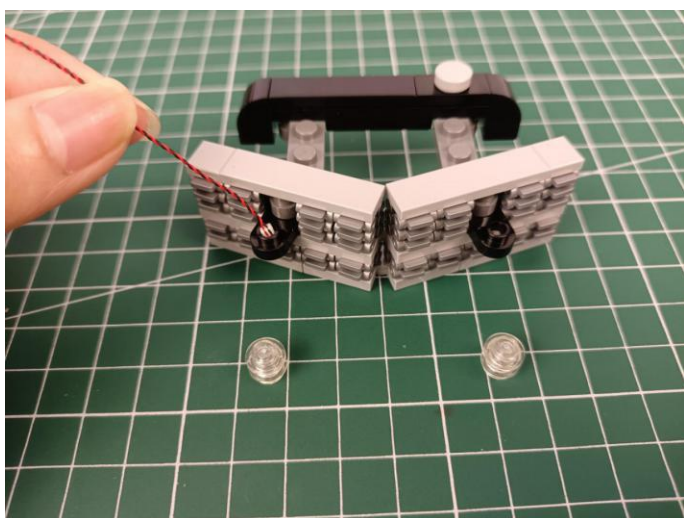


Take 2 yellow 15cm dot lights.

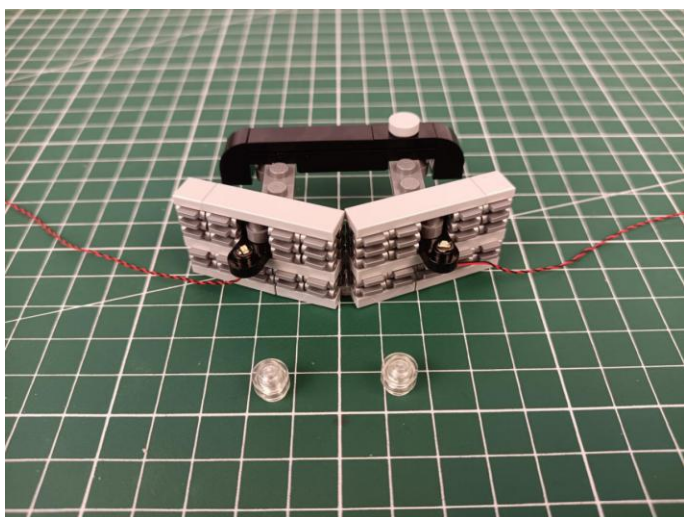




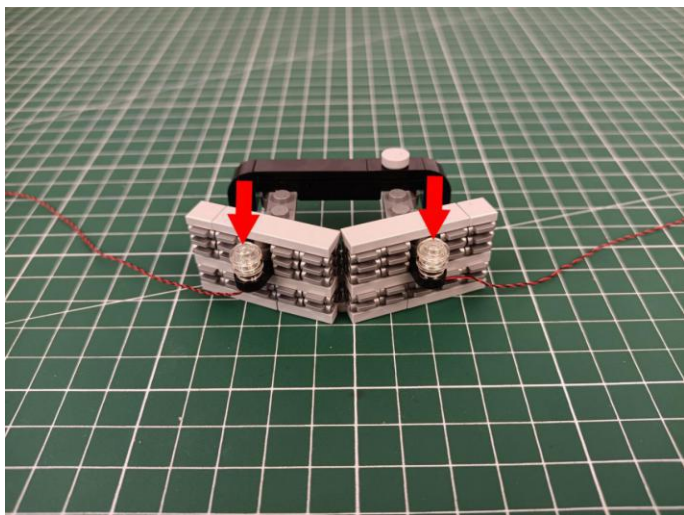
With lighting part facing up, thread the cable through the following hole and pull it out.



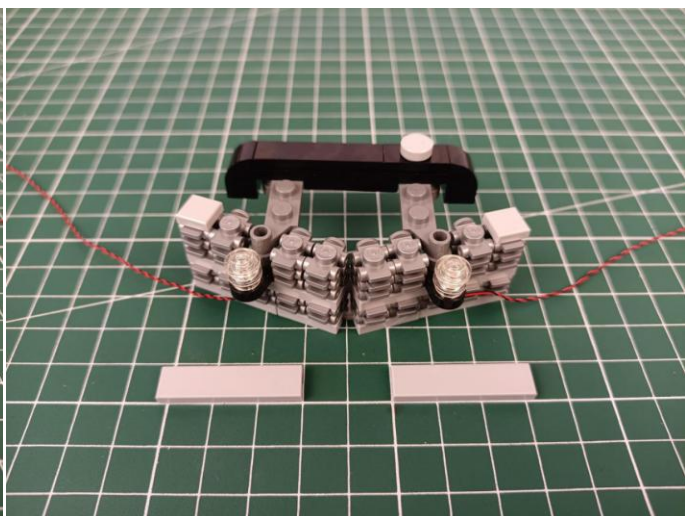
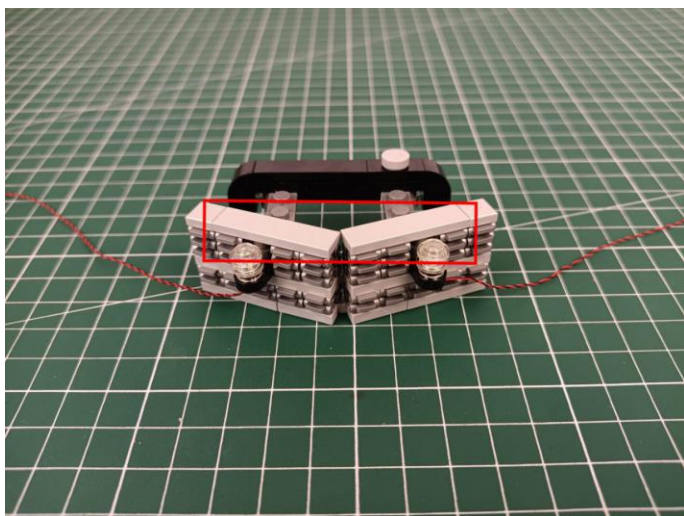
Install the other light in the same way.



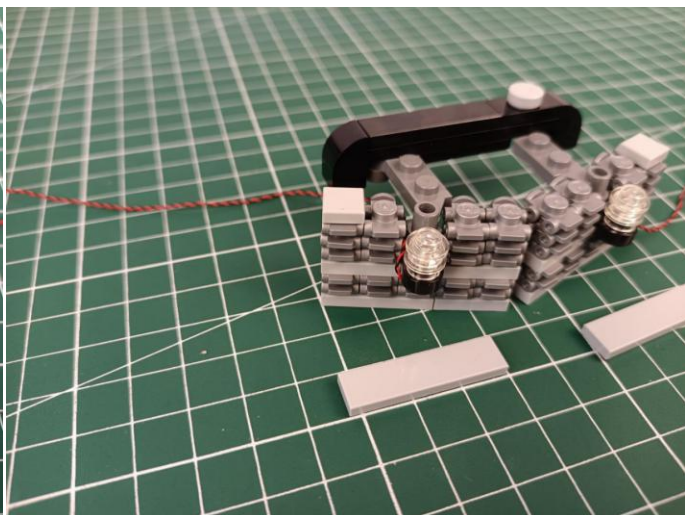
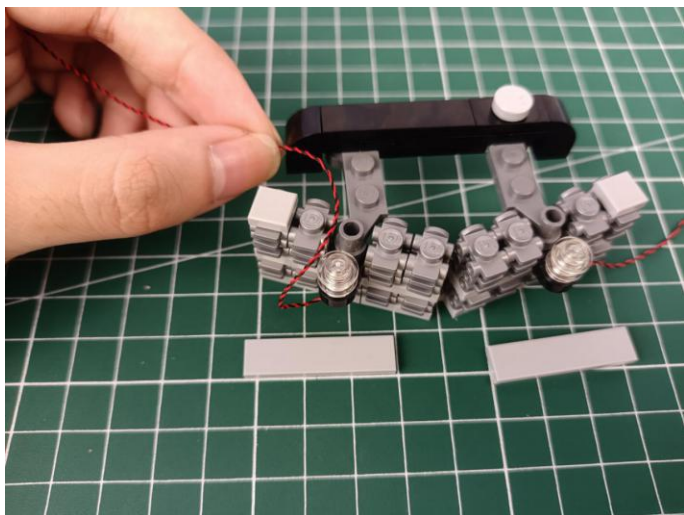
Reconnect the 2 trans white round plates.



Remove the following 2 gray plates.

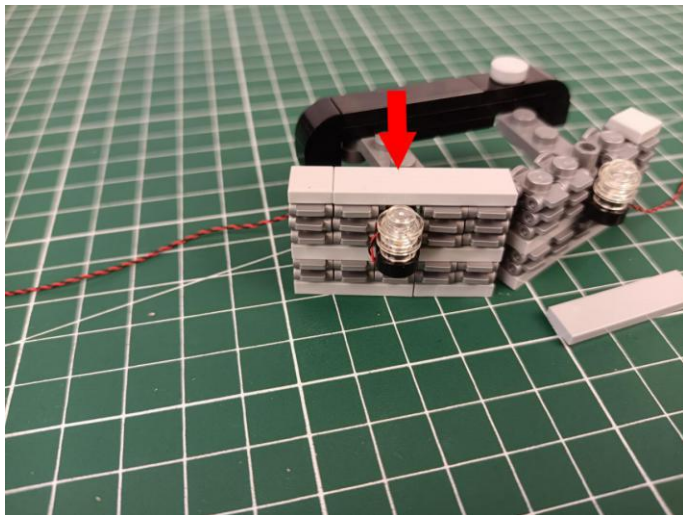


Stuck the cable between the gray pieces as per below.

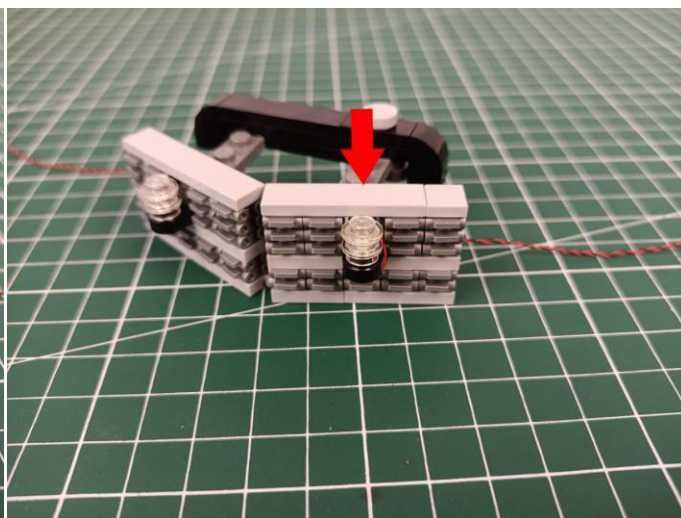
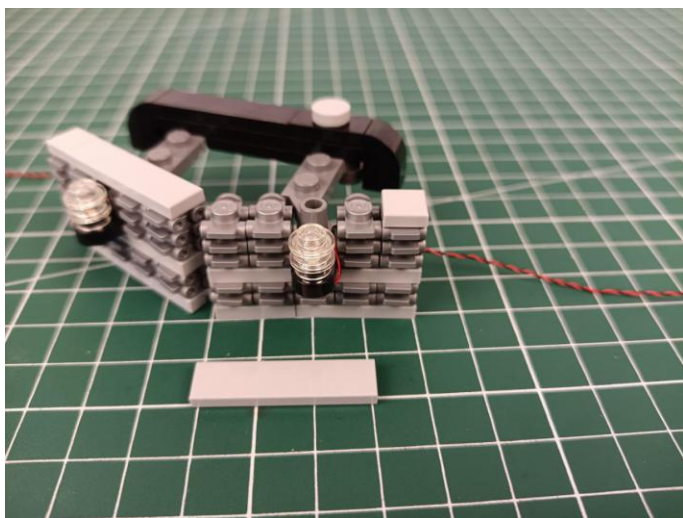


Reconnect the gray plate.

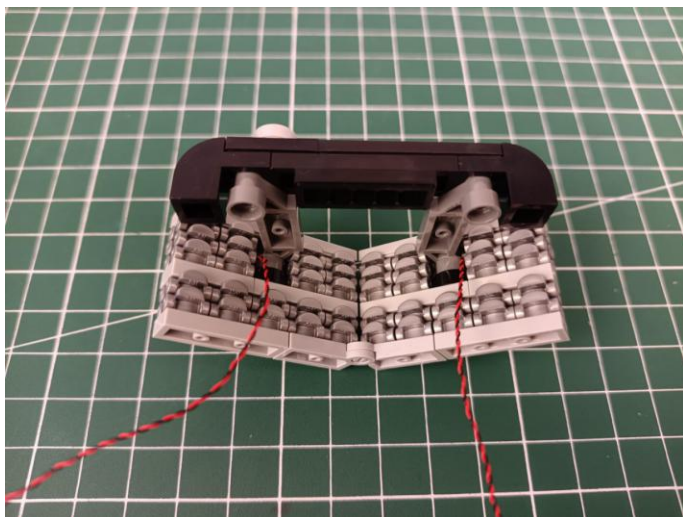




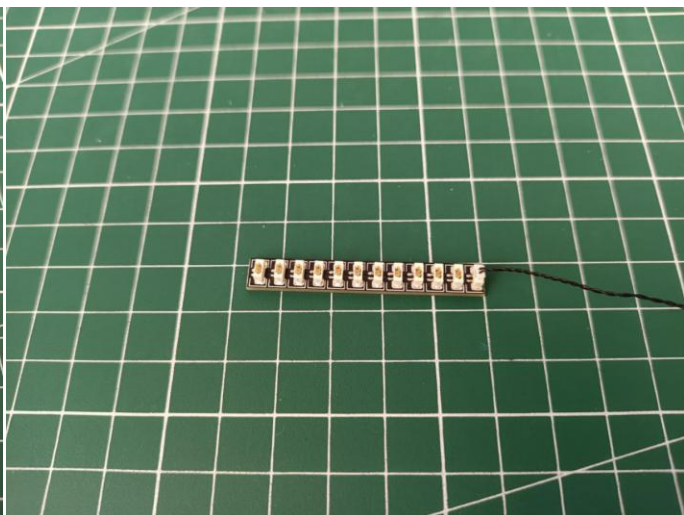
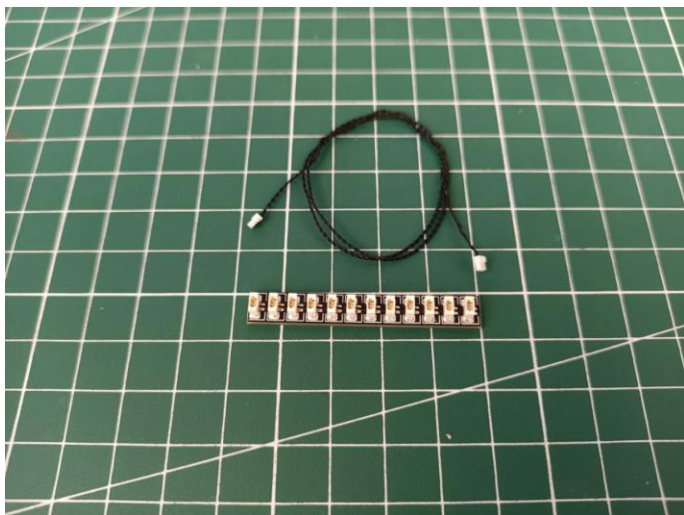
Place the other cable similarly.



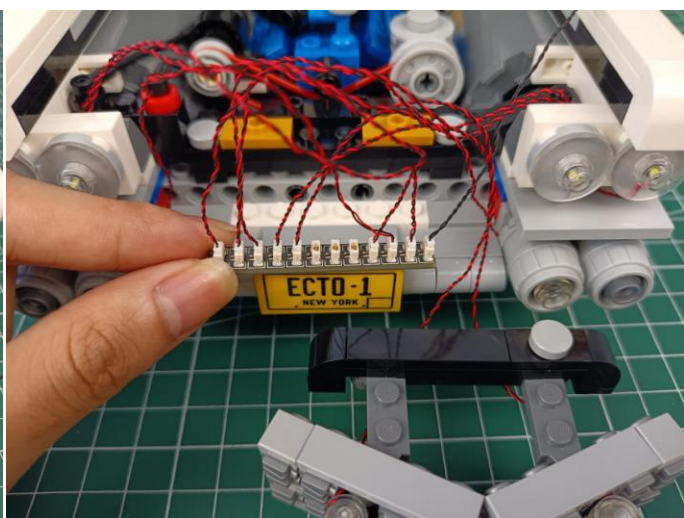
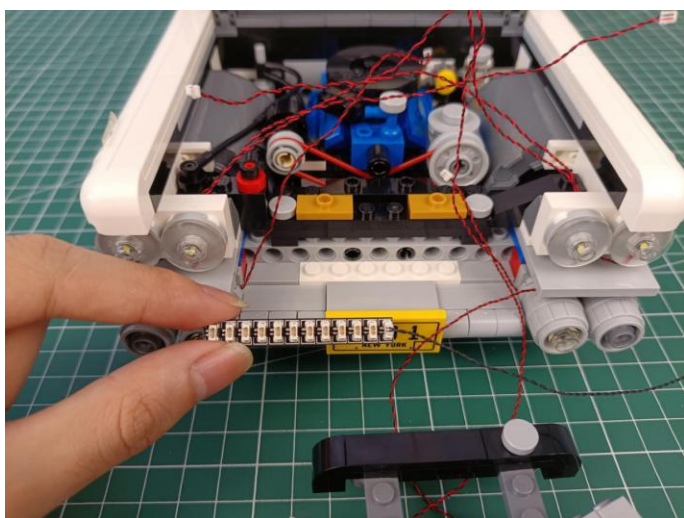
As per below.



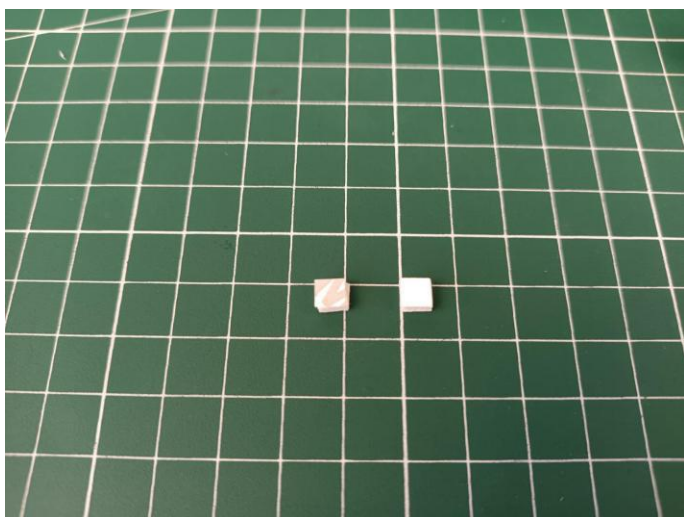
Take a 30cm connecting cable, a 12-port expansion board, assemble them as per below.



Connect all the cables from the head to the expansion board.

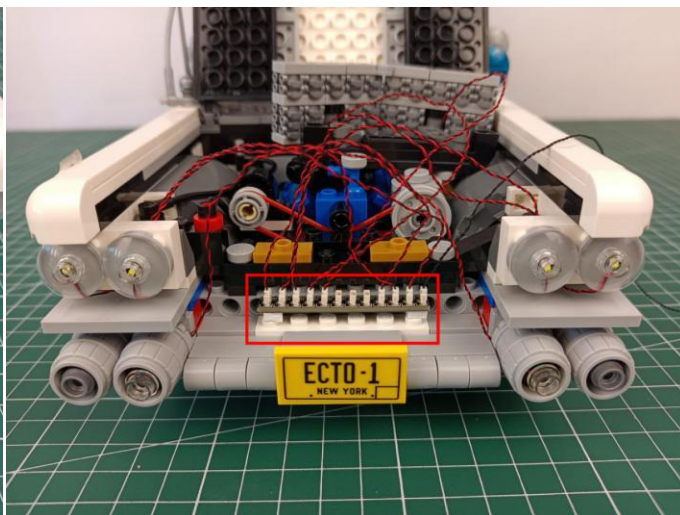
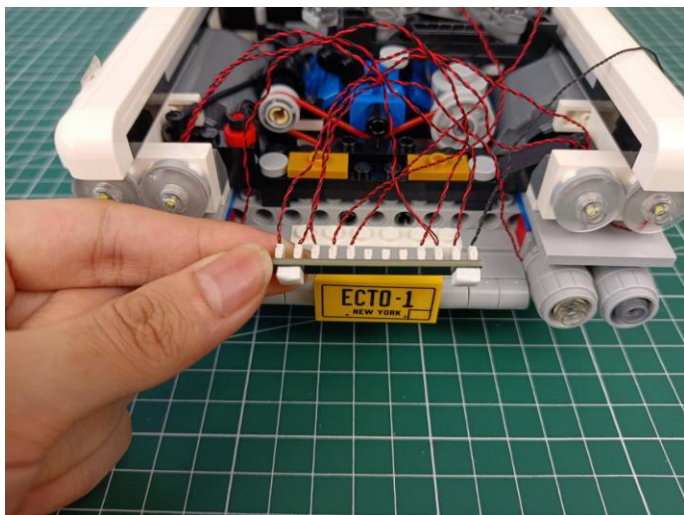


Take 2 adhesive squares.

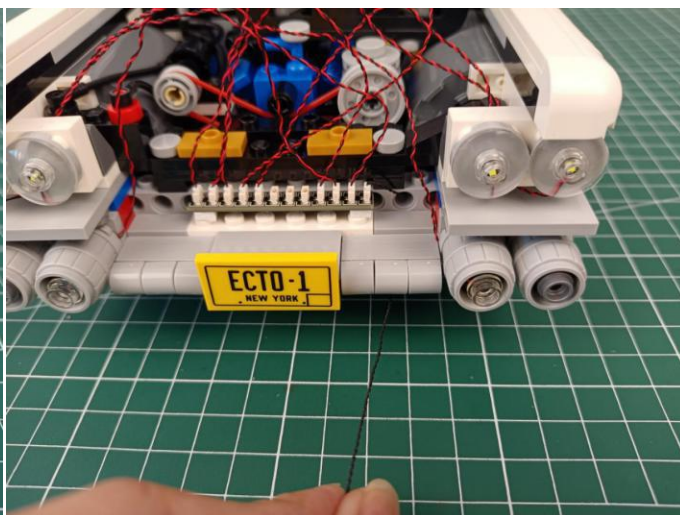
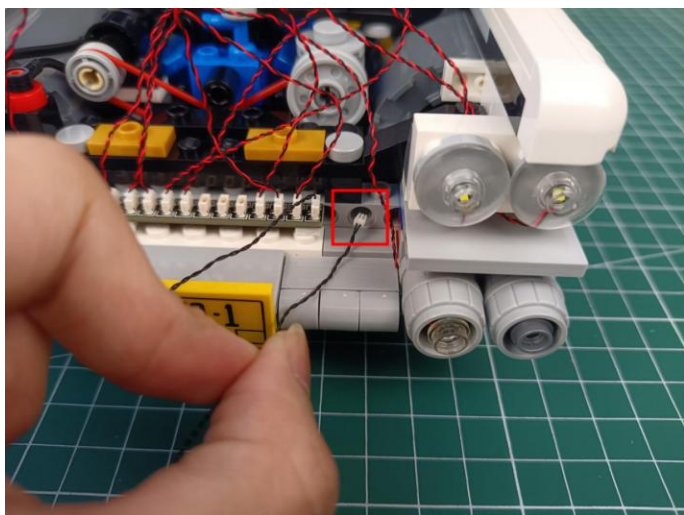


Stick them to the back of the expansion board, and stick the expansion board to the following place.

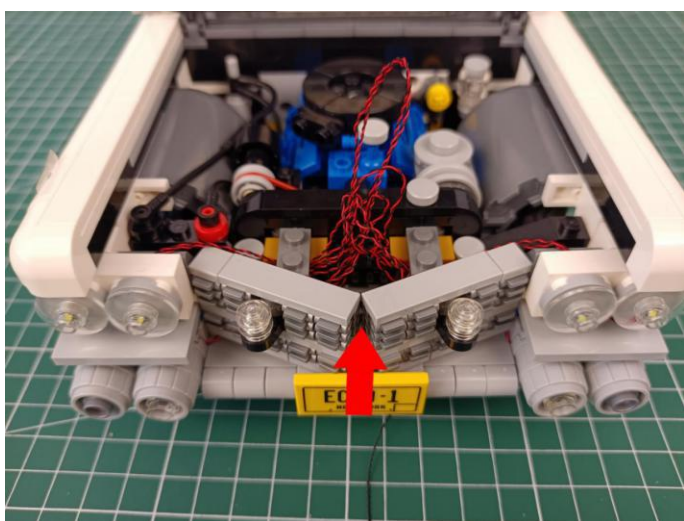




Thread the cable from the expansion board through the following hole, and pull it out from the bottom.

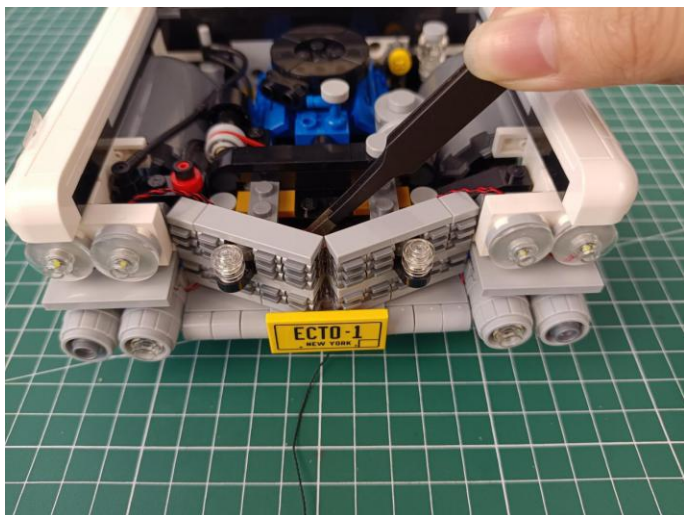


Reconnect the gray piece.

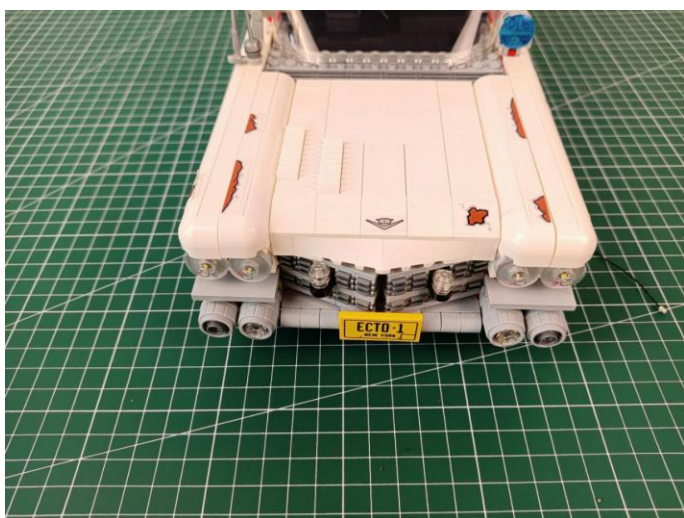


Tuck the cables with the tweezer.

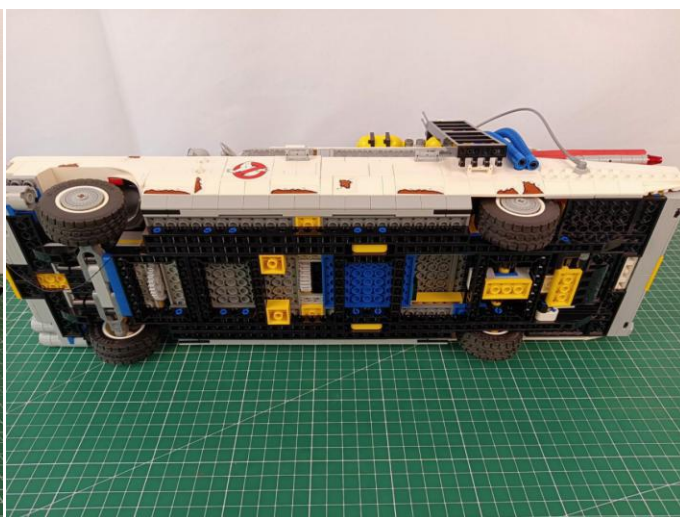




Close the engine cover.

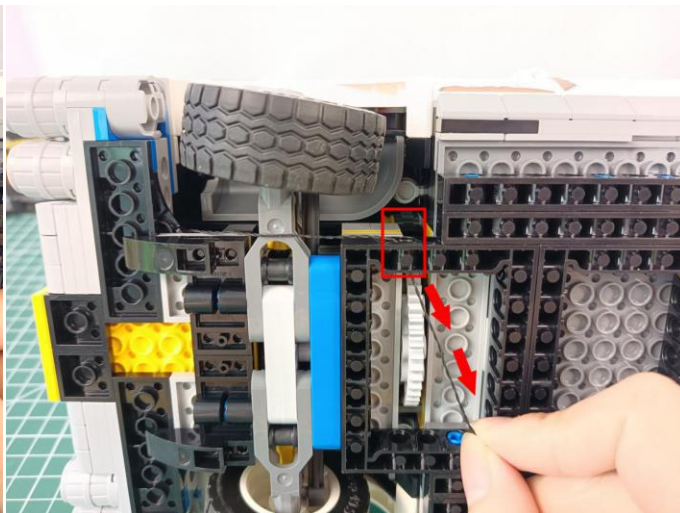
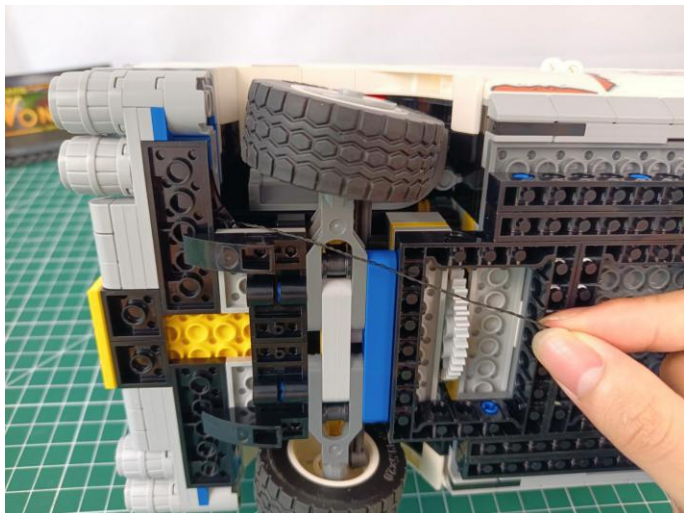


Turn to the side, and turn the car over.

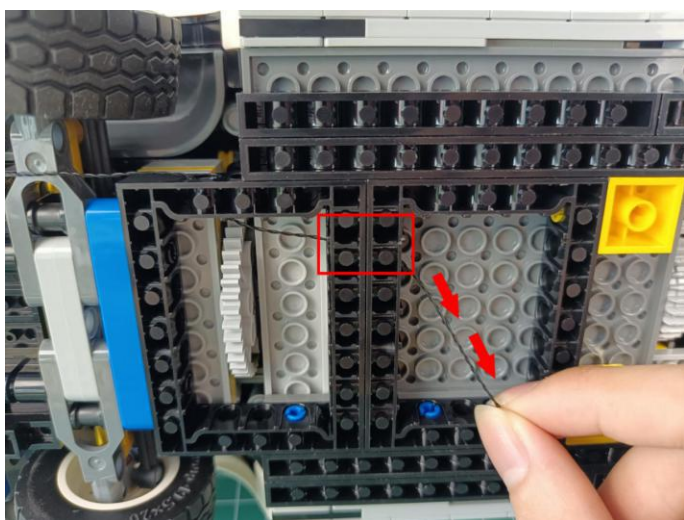


Thread the cable through the following hole and pull it out.

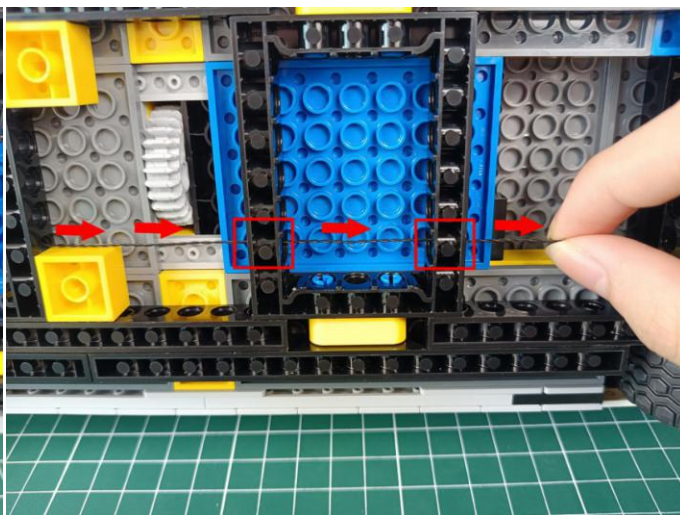
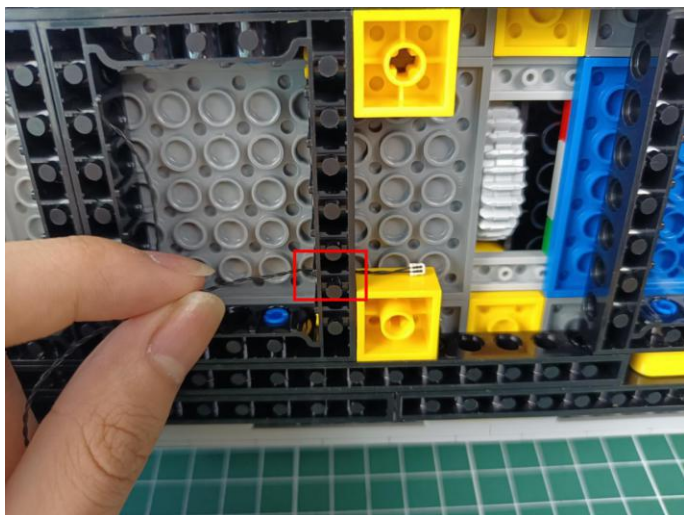




Continue to thread it through the following hole.



Finally thread the cable through the following hole and pull it out.



Turn to the other side, and turn the car over.

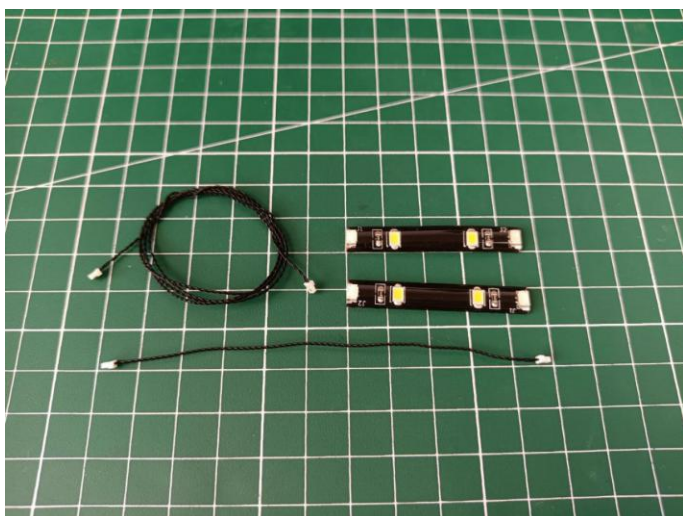




Open the door.

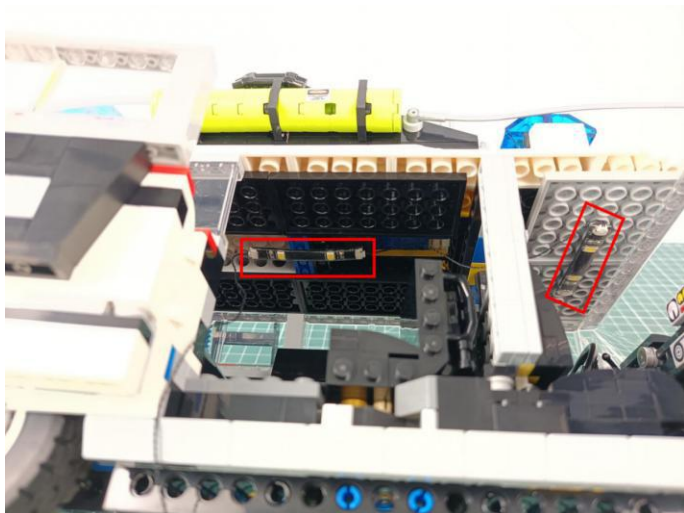


Take a 10cm connecting cable, a 50cm connecting cable, 2 warm white strip lights, assemble them as per below.

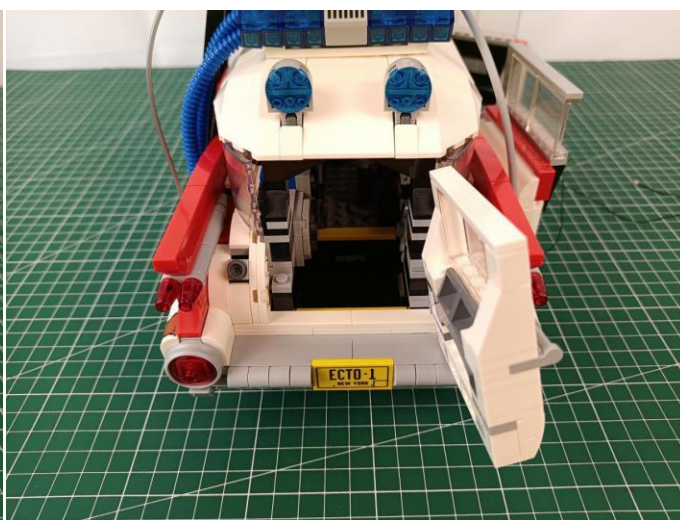
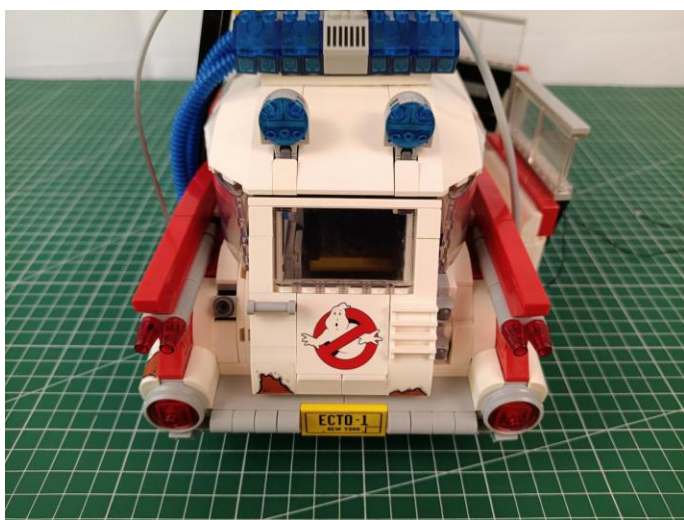


Stick the strip lights to the following places.





Turn to the tail, open the door.

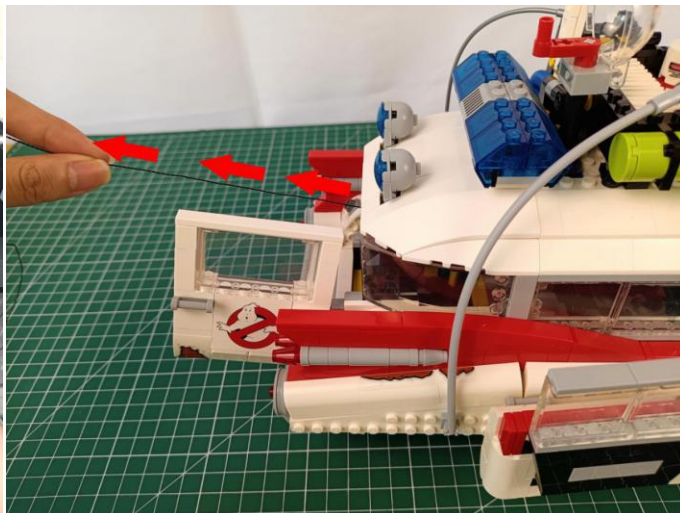


Turn to the side.

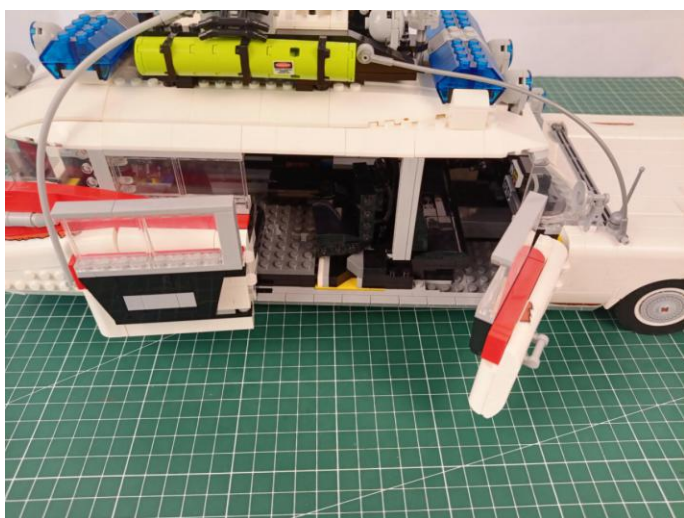


Thread the cable from the strip light through the following space to the tail, and pull it out.

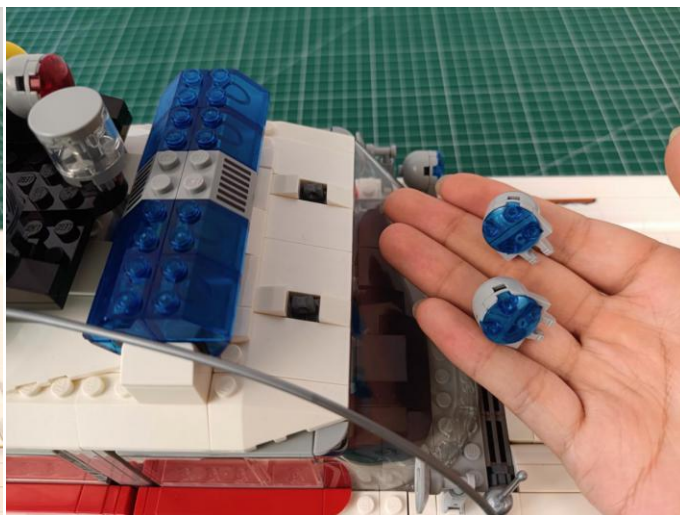
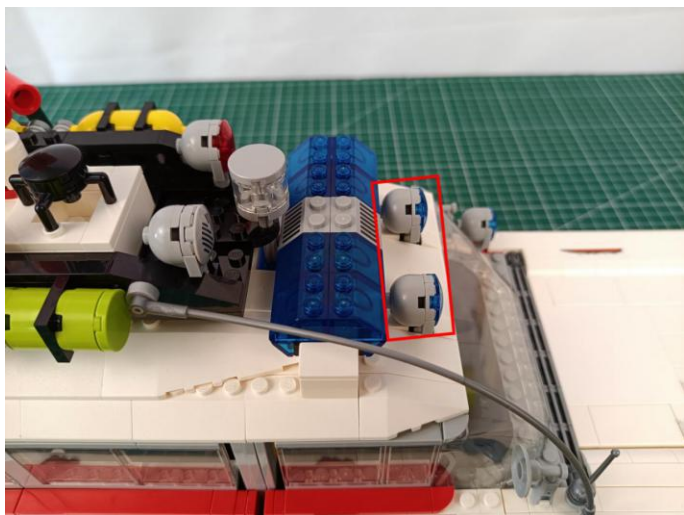




Close the side door.

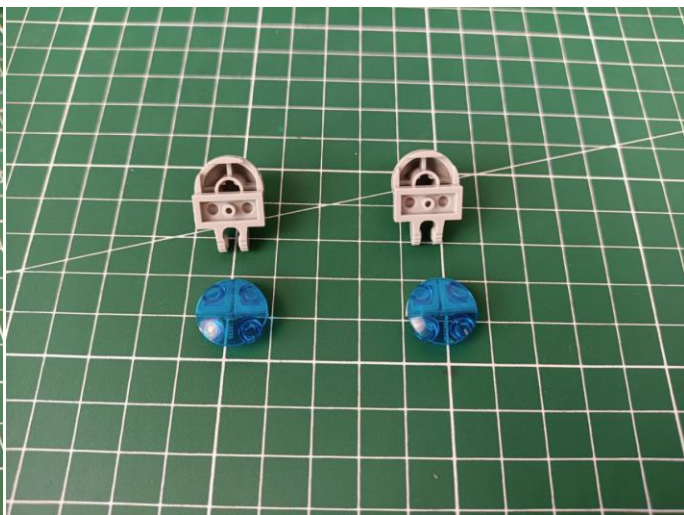


Turn to the roof, remove the lights from both sides.

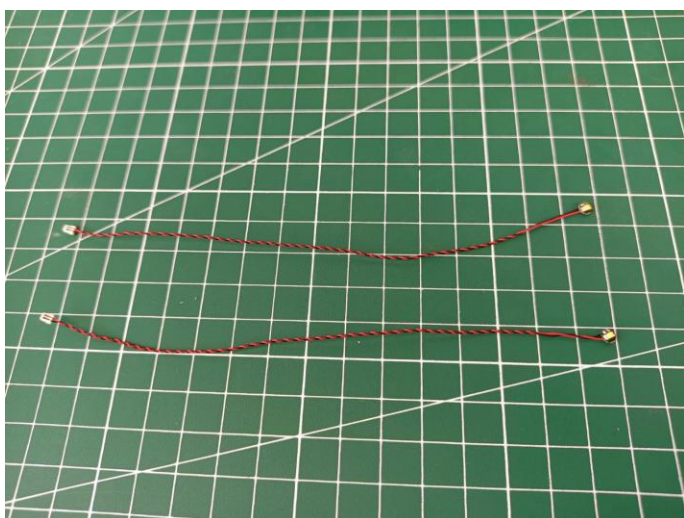


Remove the blue pieces.

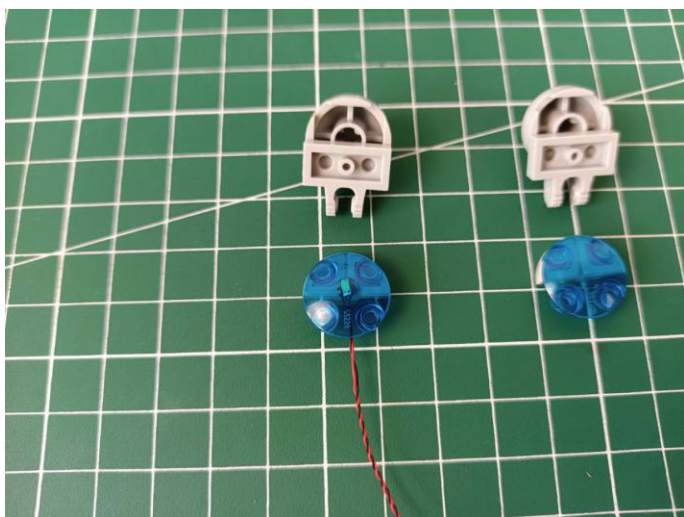




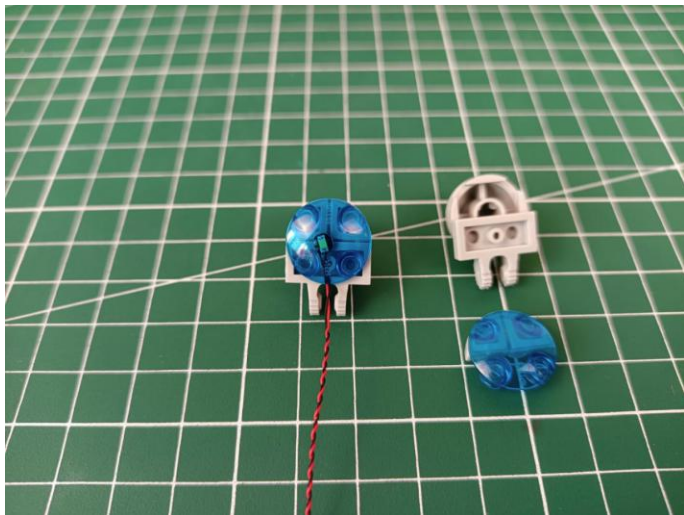
Take 2 white 15cm dot lights.



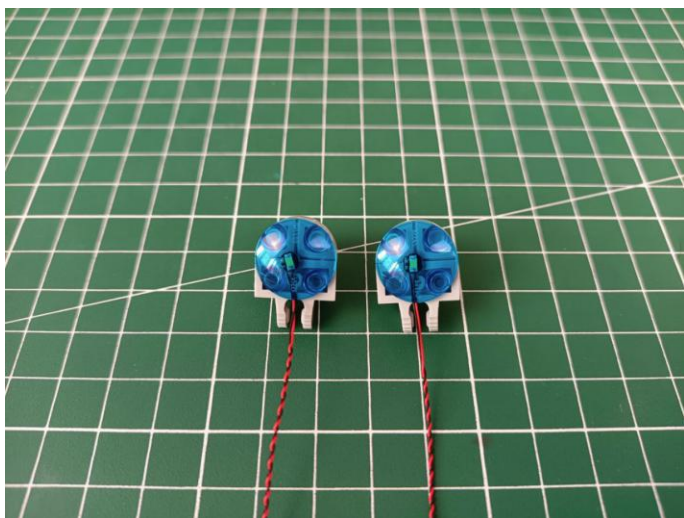
With lighting part facing up, place the light inside the blue piece.



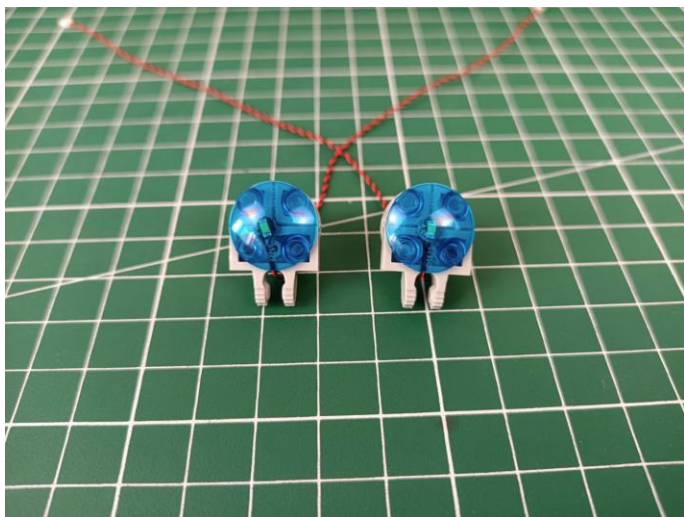
Reconnect the light.



Install the other light in the same way.

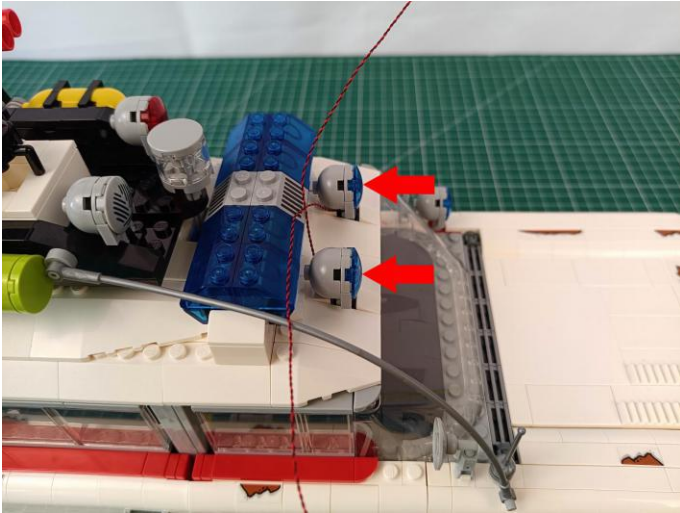


Place the cables as per below.

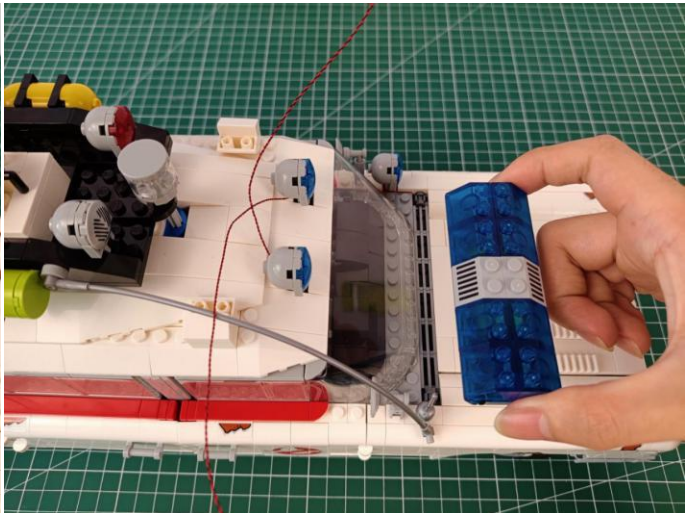
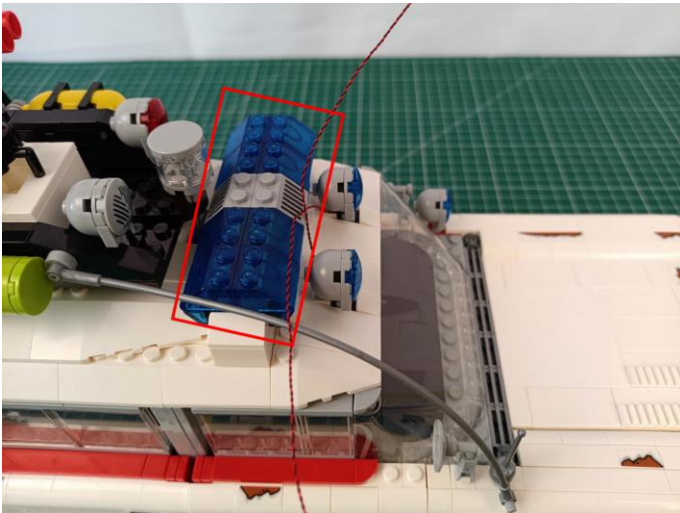


Reconnect the lights.

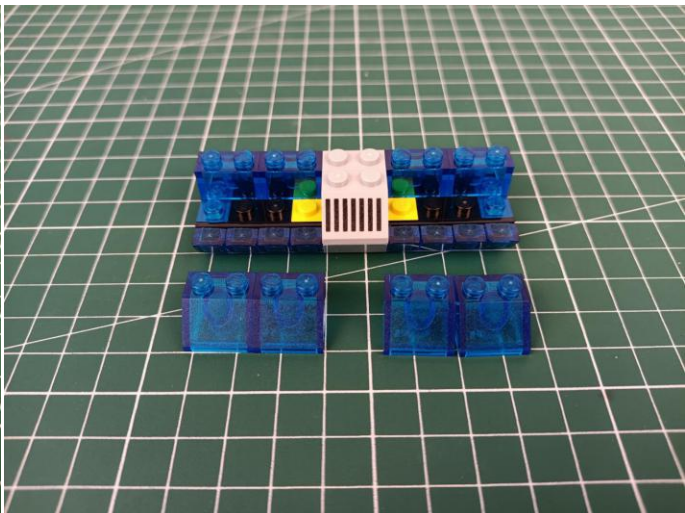
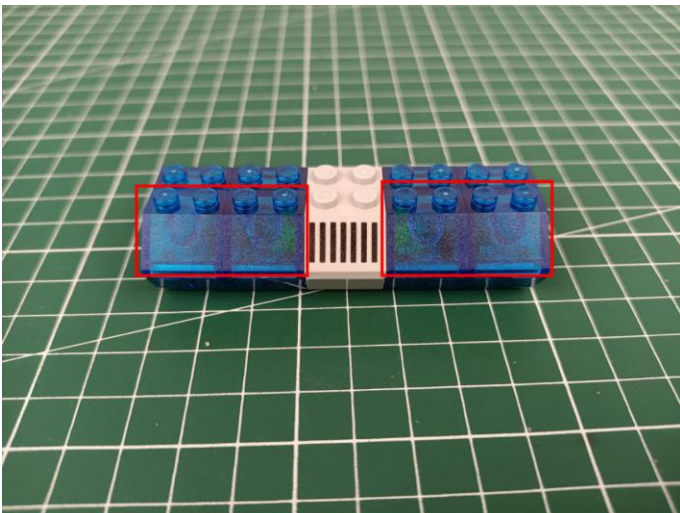




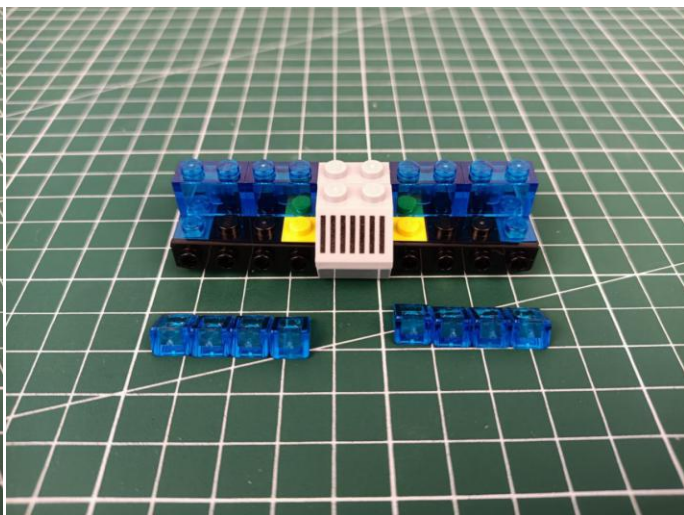
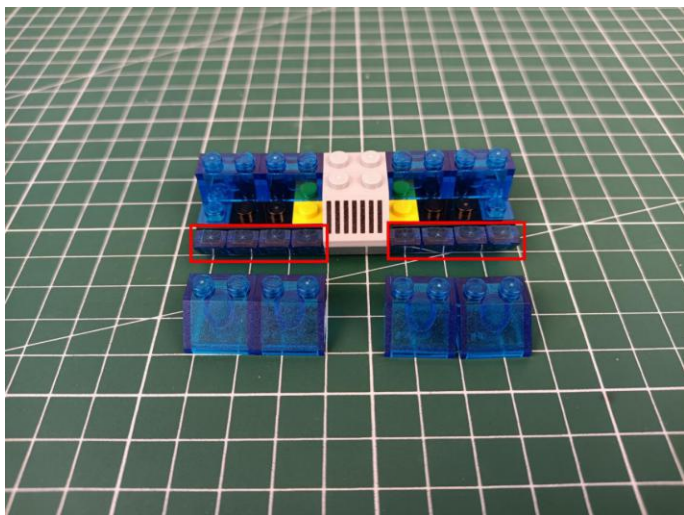
Remove the following blue piece.



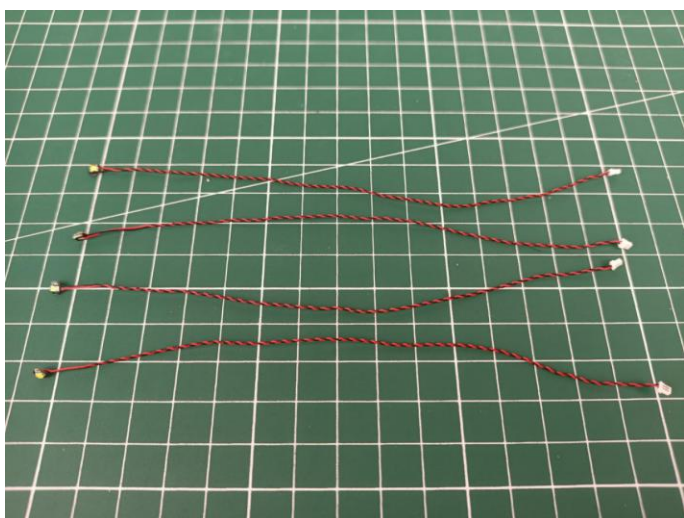
Continue to disconnect the 4 blue pieces.



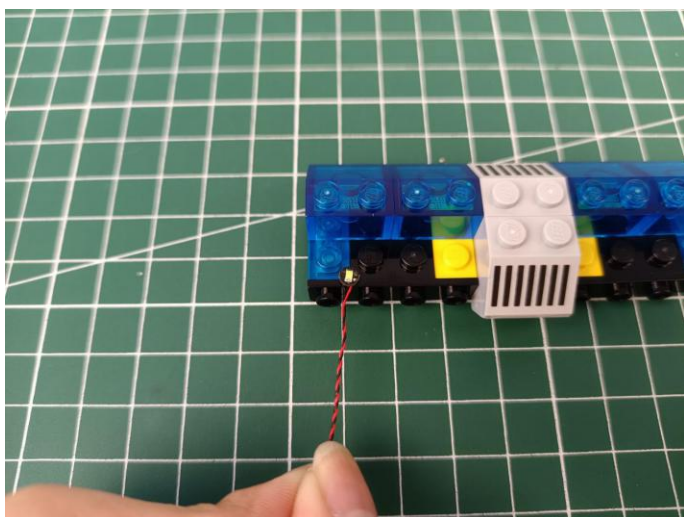
Continue to disconnect the following 8 blue pieces.



Take 4 white 15cm dot lights.

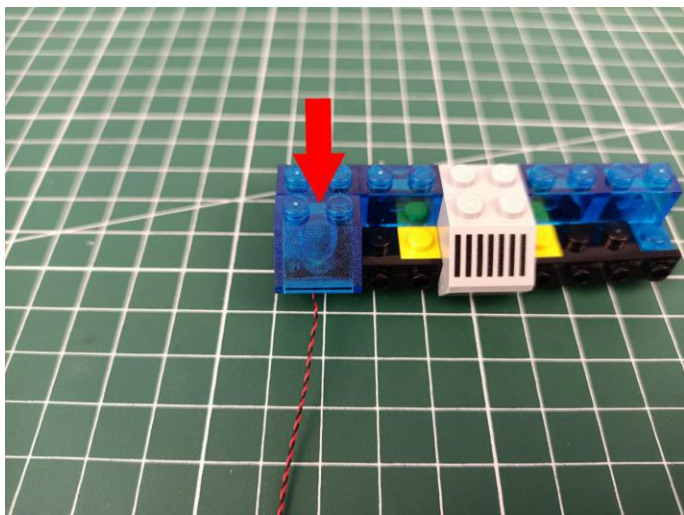


With lighting part facing up, place the light as per below.

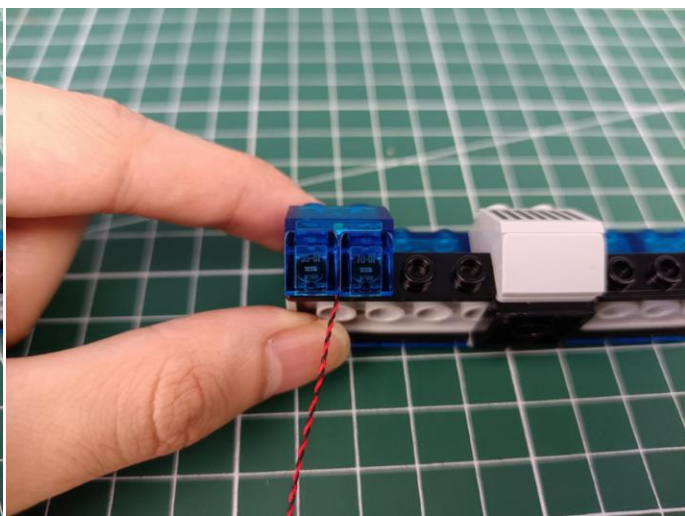
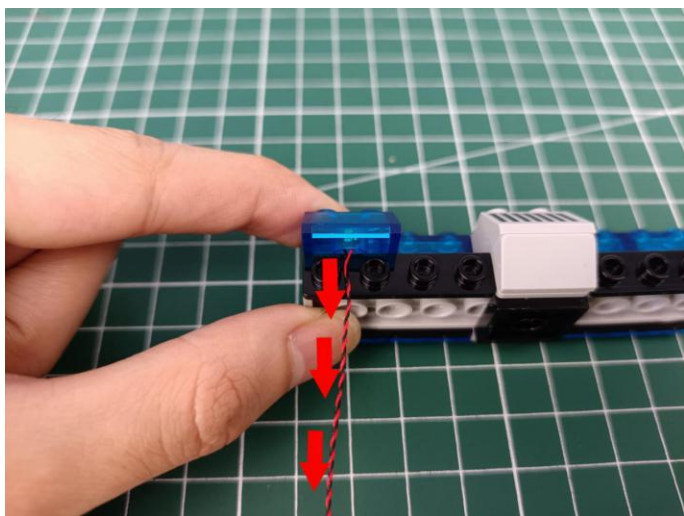


Reconnect the following blue piece.

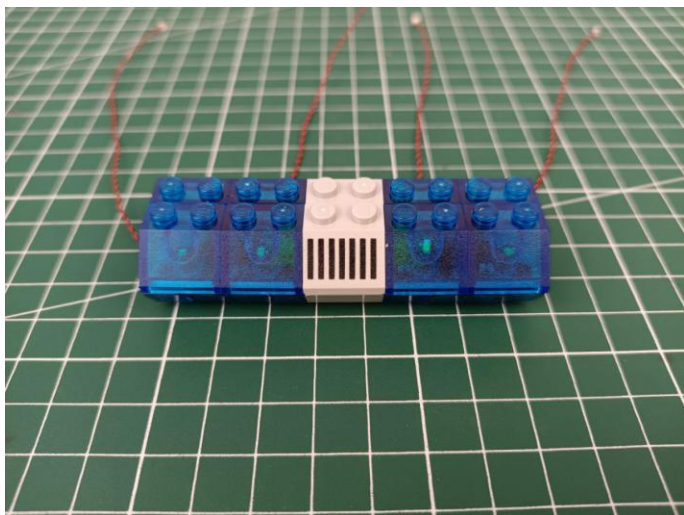




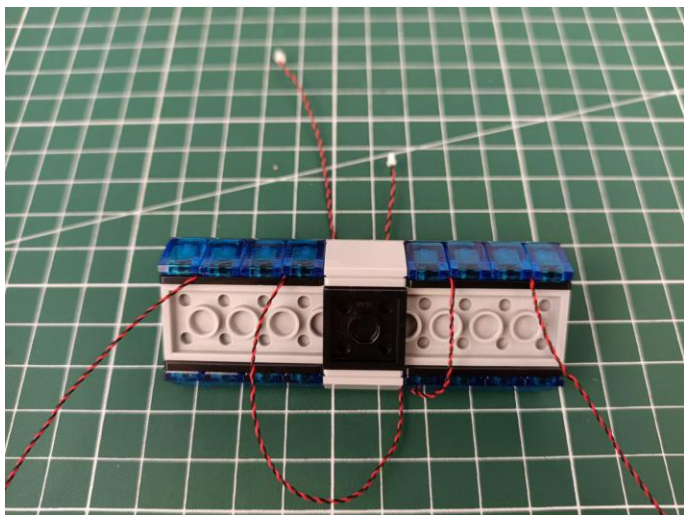
Place the cable as per below, reconnect the following 2 blue pieces.



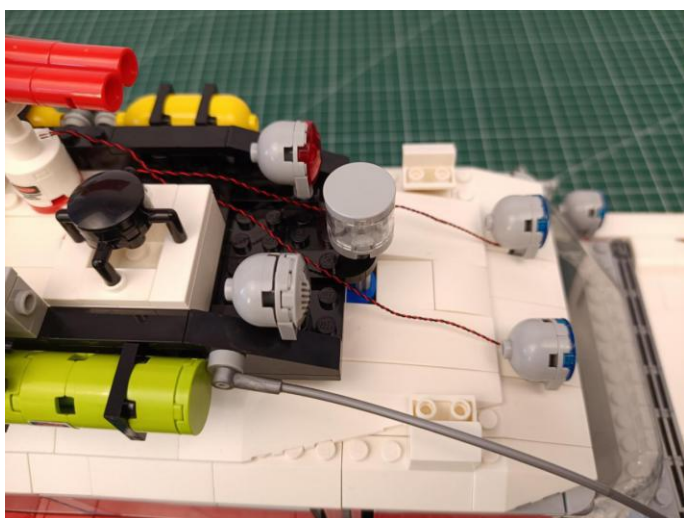
Install the other 3 lights in the same way.



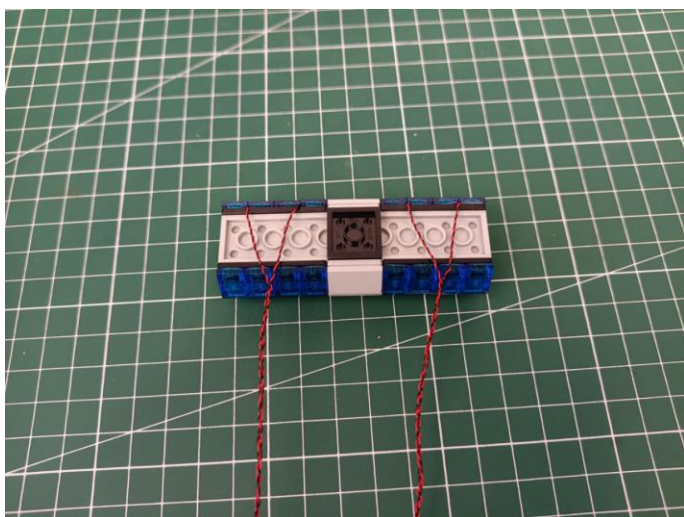
Turn the blue piece to the back.



Pull the 2 cables to the back.

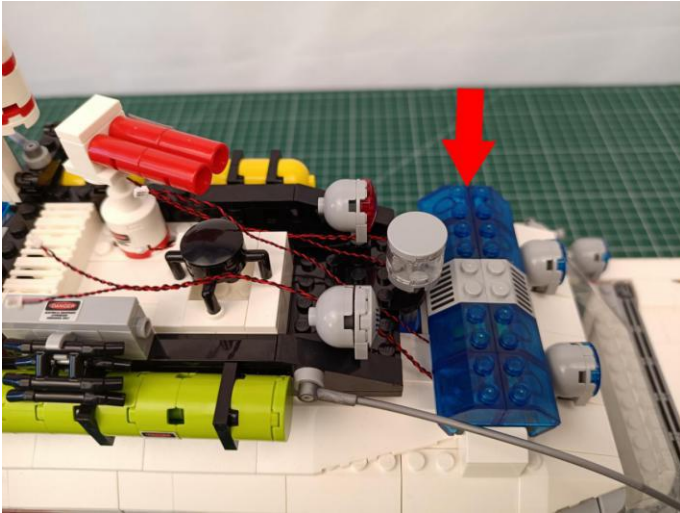


Group the cables respectively together as per below.

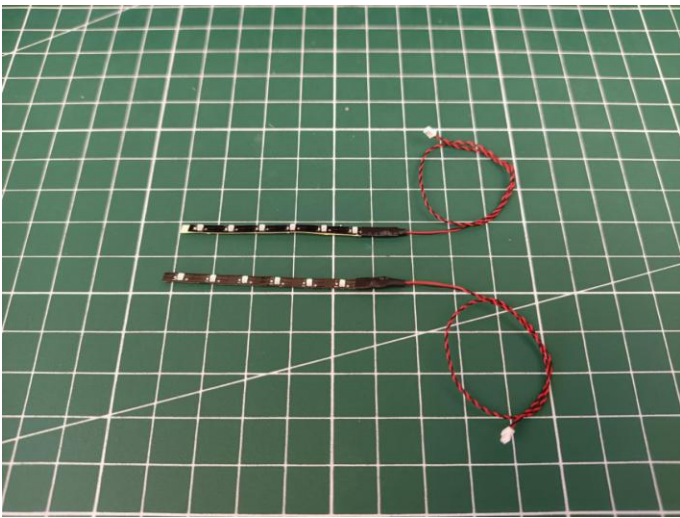


Reconnect the blue piece.

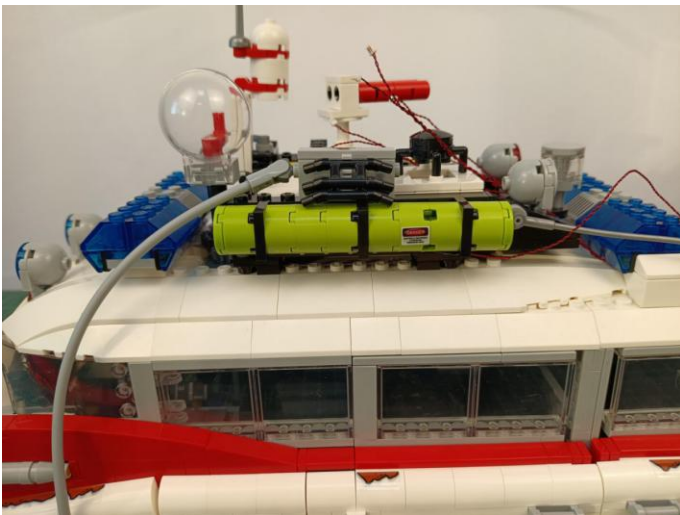




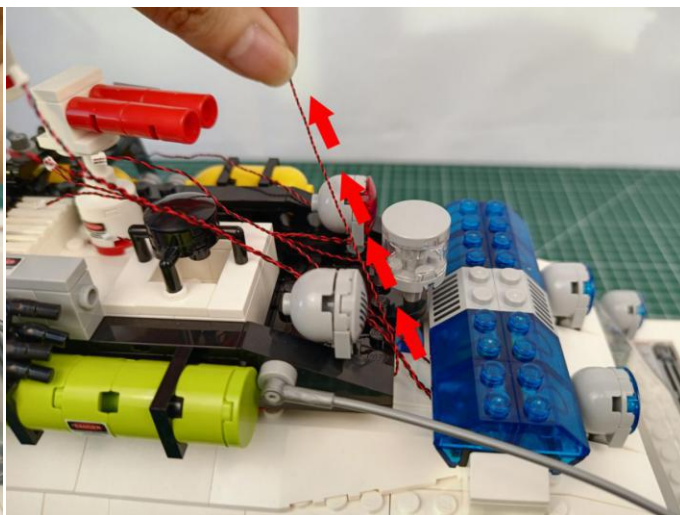
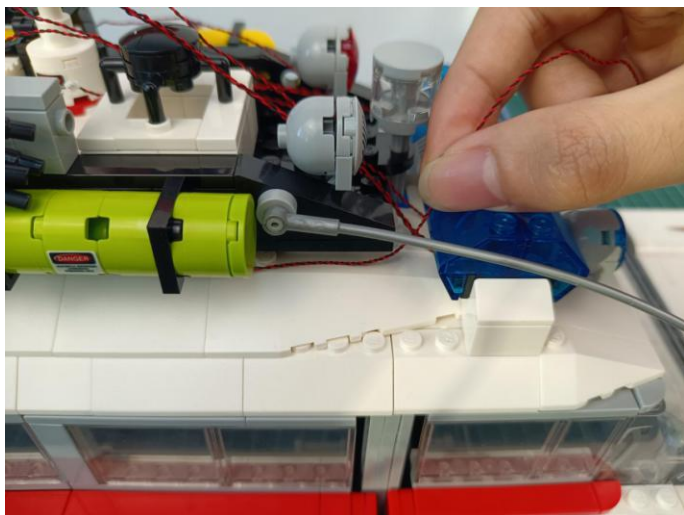
Take 2 green 15cm strip lights (with 7 lights).



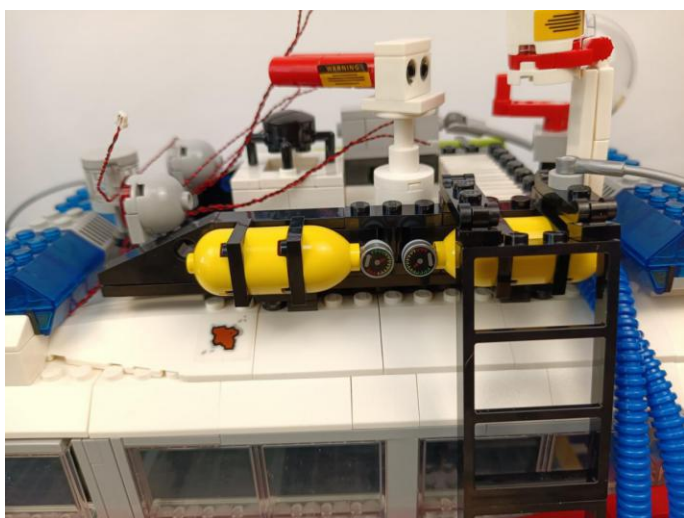
Stick the strip light underneath the following green piece.



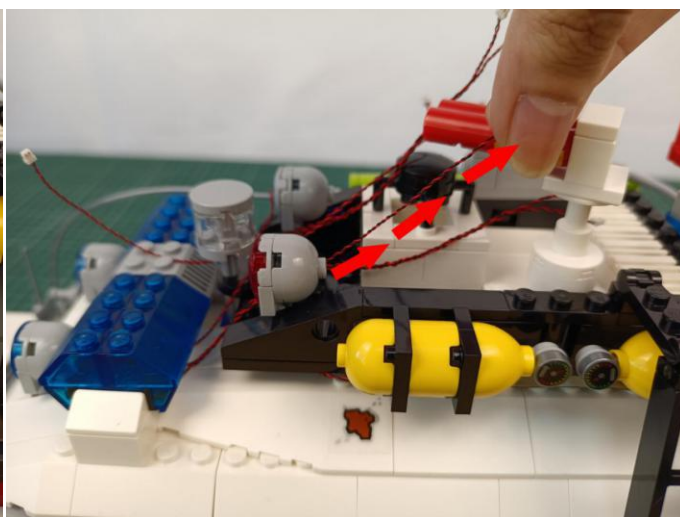
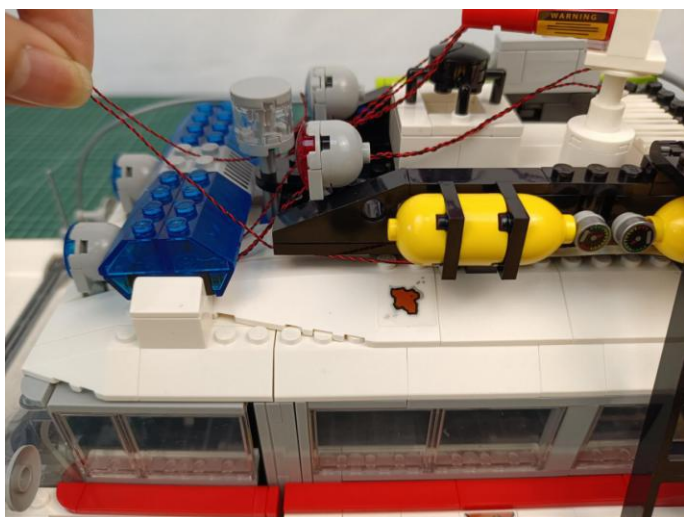
Wind the cable around the following black piece as per below.



Turn to the other side, stick the strip light underneath the yellow piece.

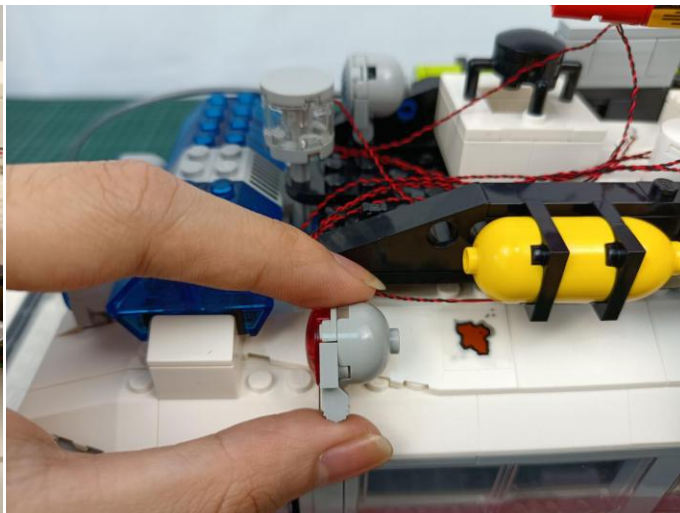
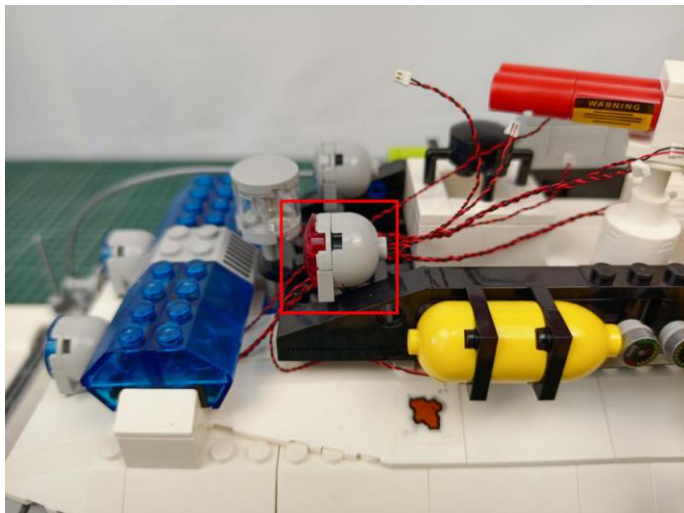


Wind the cable around the following black piece as per below.

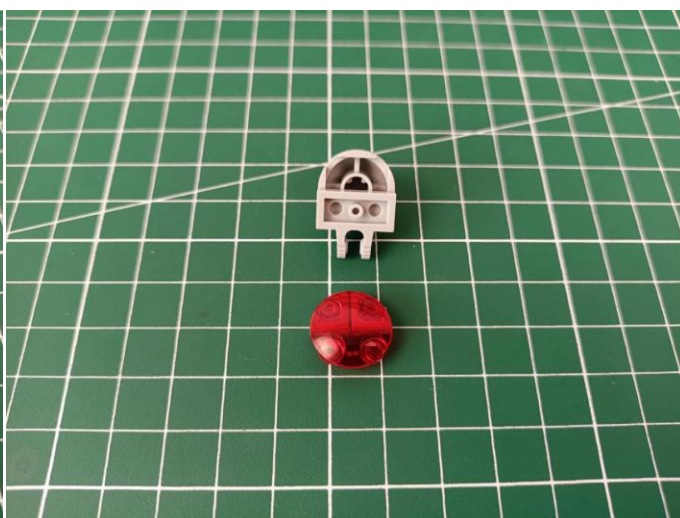
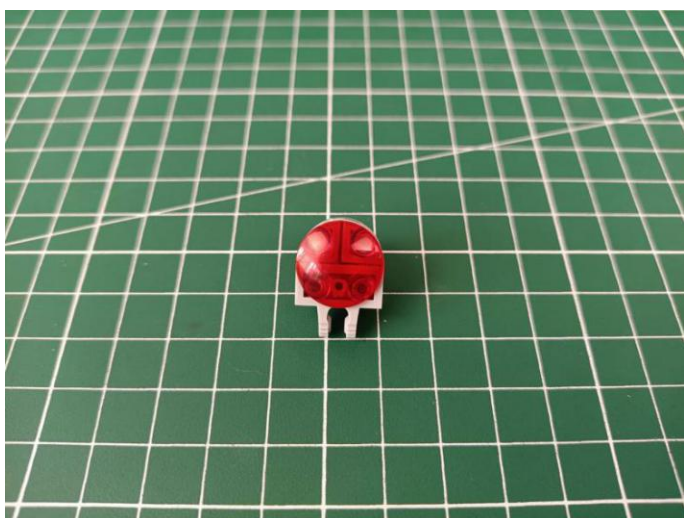


Remove the following light.

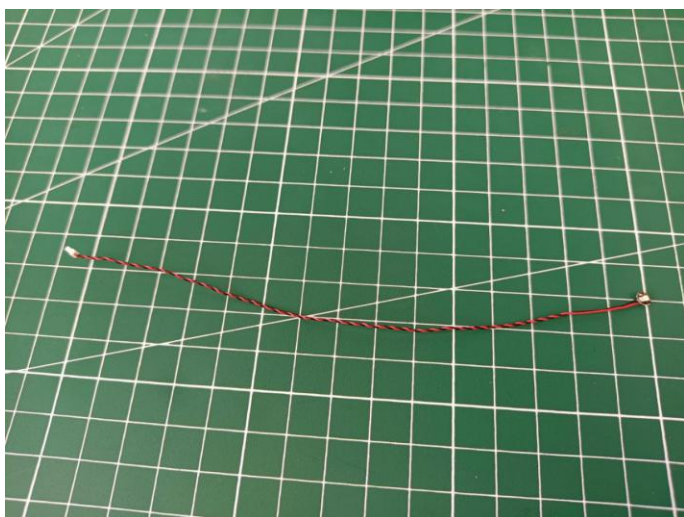




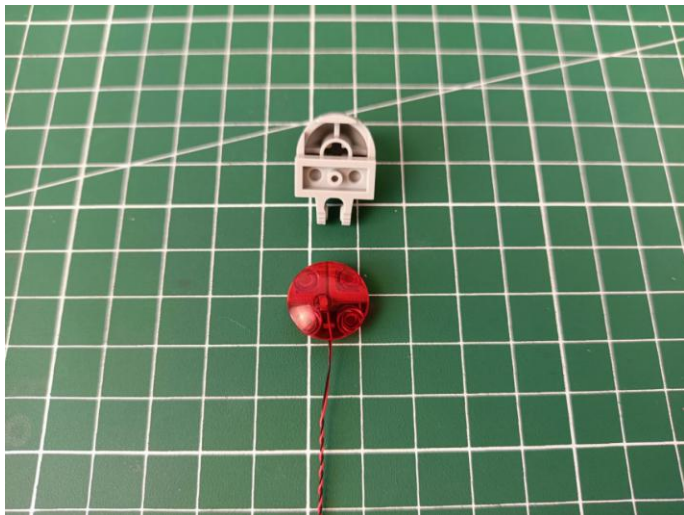
Remove the red piece.



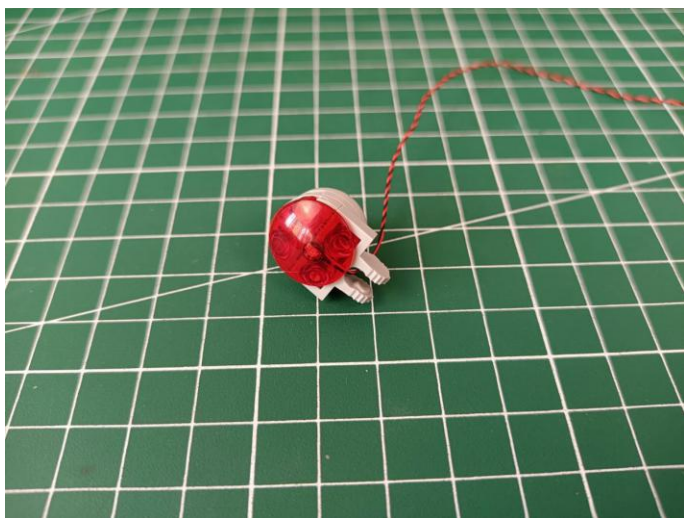
Take a red 15cm dot light.



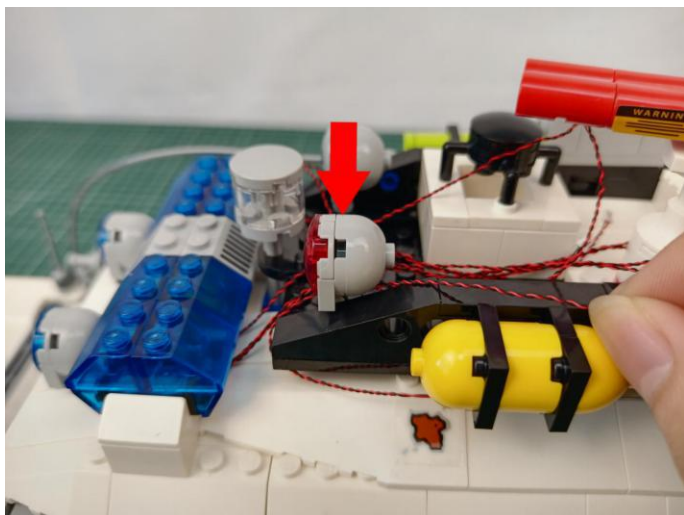
With lighting part facing up, place the light inside the red piece.



Reconnect the light, place the cable as per below.

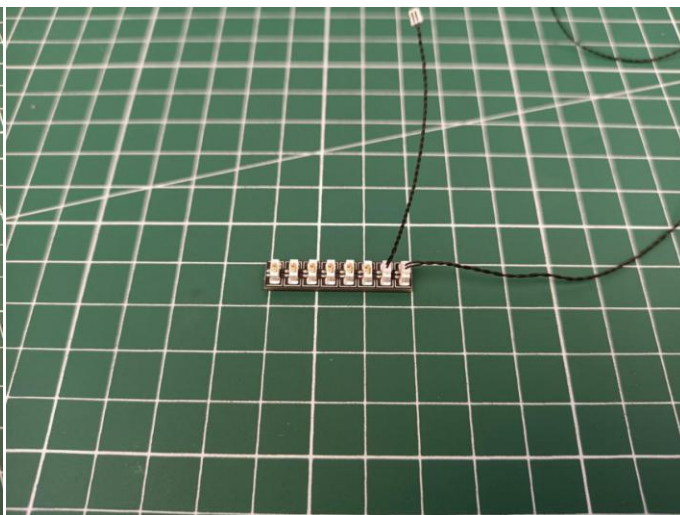
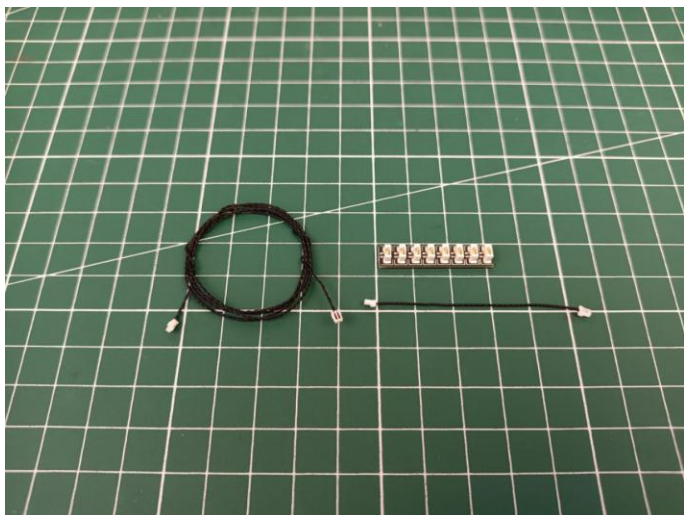


Reconnect the light back to the car.

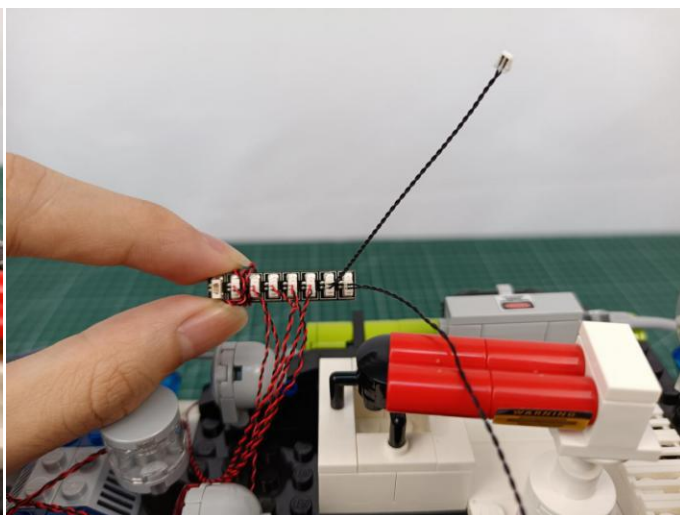
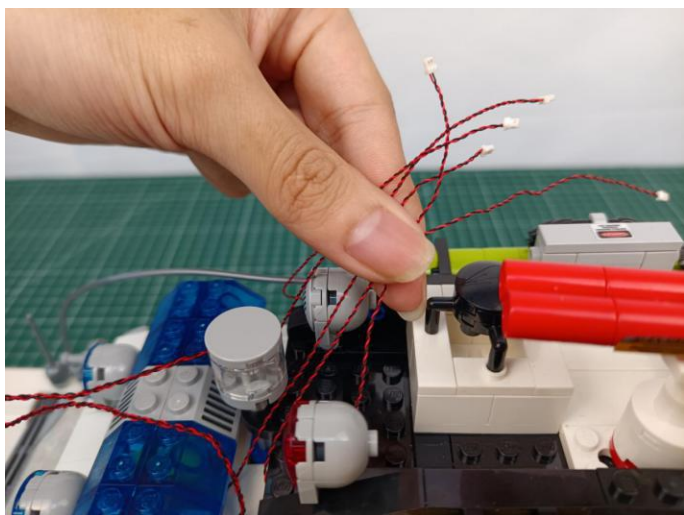


Take a 50cm connecting cable, a 5cm connecting cable, an 8-port expansion board, assemble them as per below.

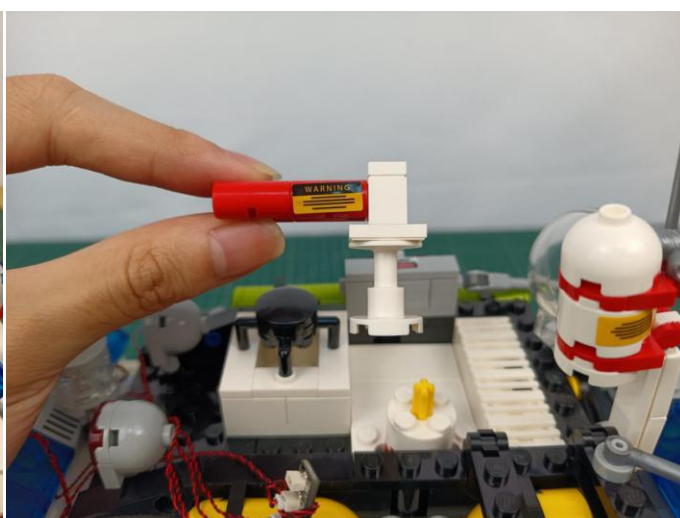
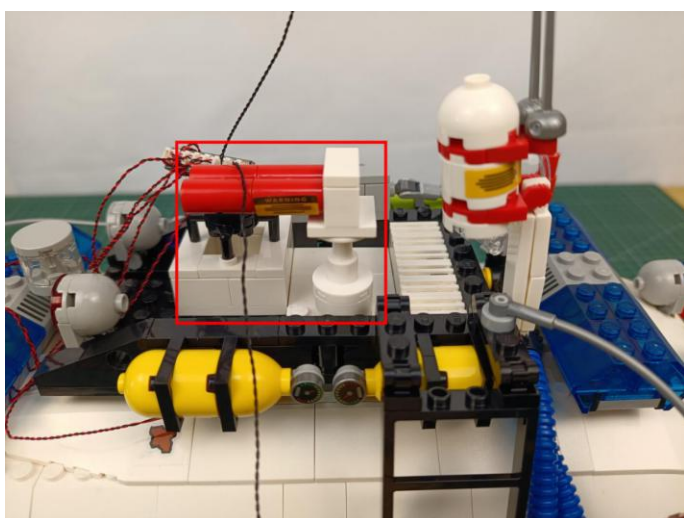




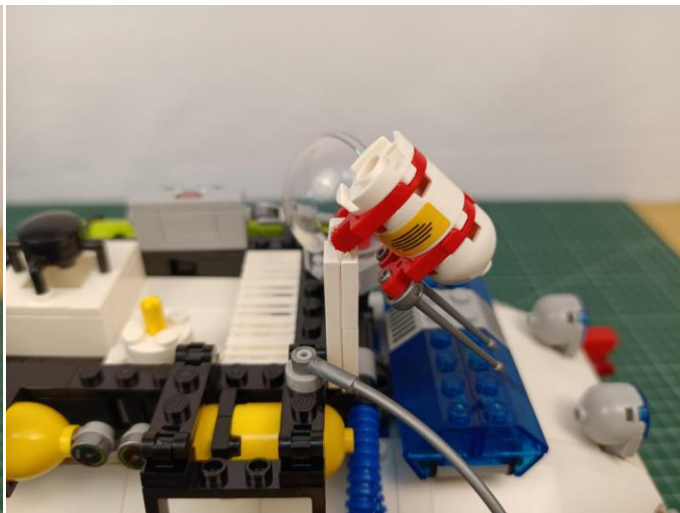
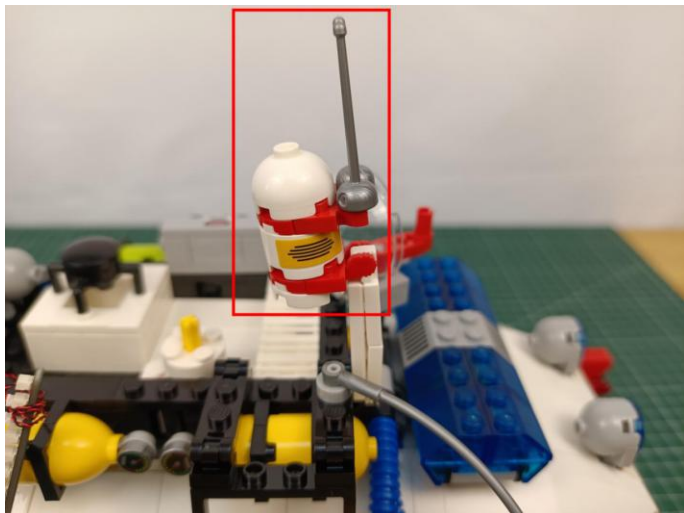
Take the following cables, connect them to the expansion board, tuck excess cables around the expansion board (except the cables from the blue piece).



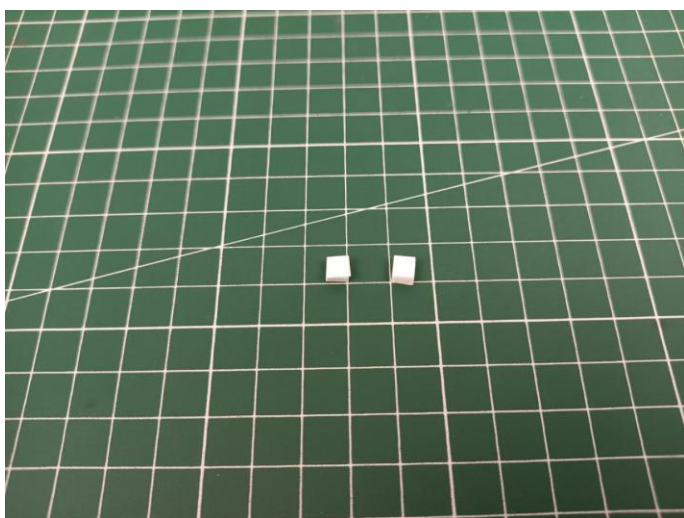
Remove the following piece.



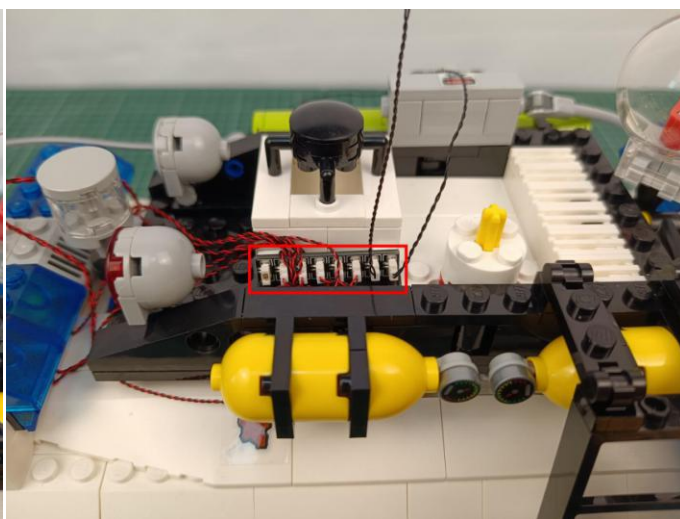
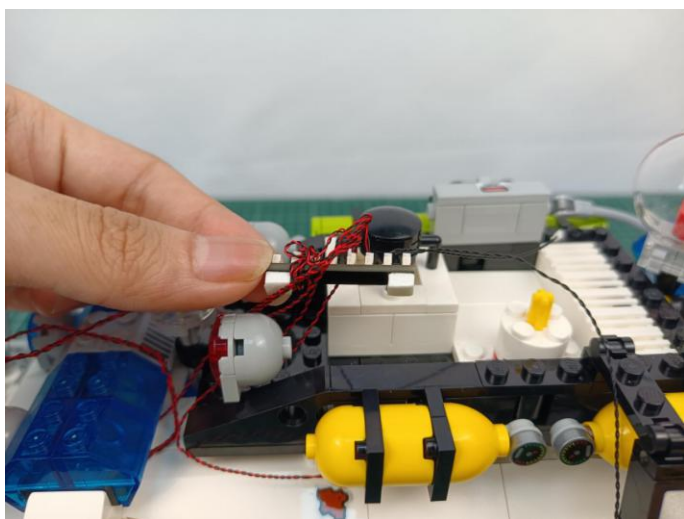
Adjust the piece as per below.



Take 2 adhesive squares.

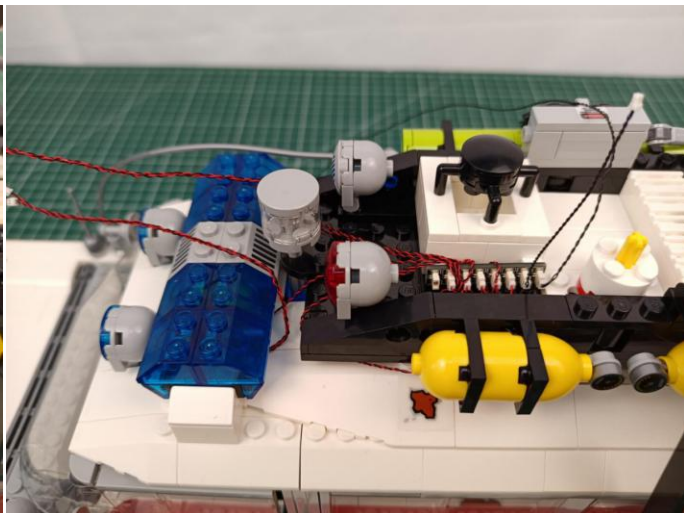
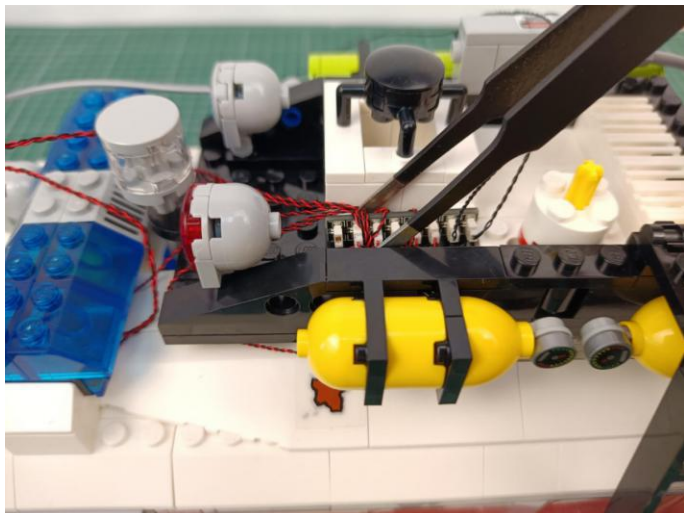


Stick them to the back of the expansion board, and stick the expansion board to the following place.

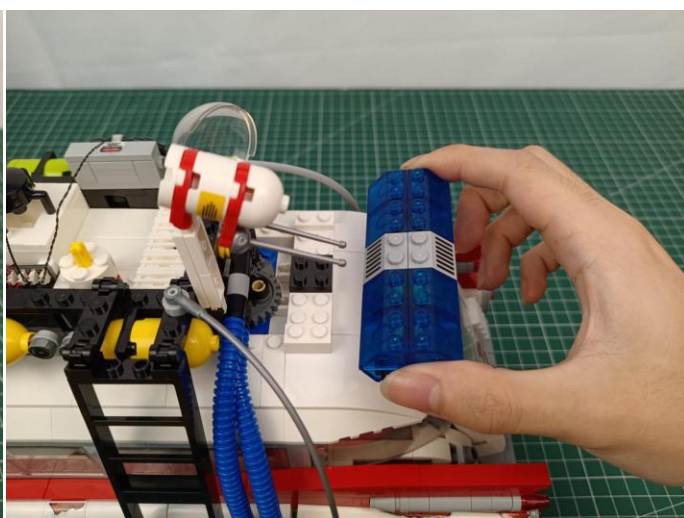
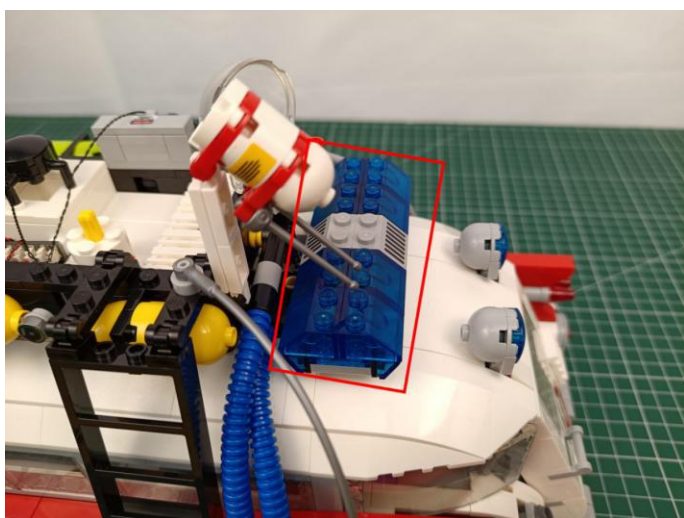


Tuck excess cables at the back of the expansion board with the tweezer.

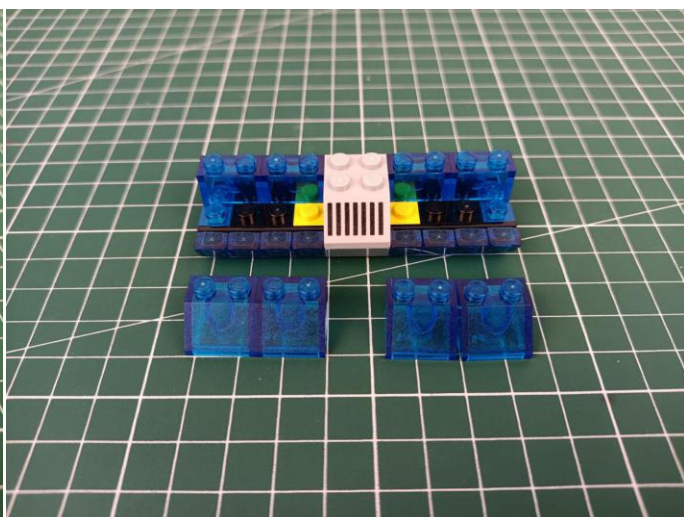
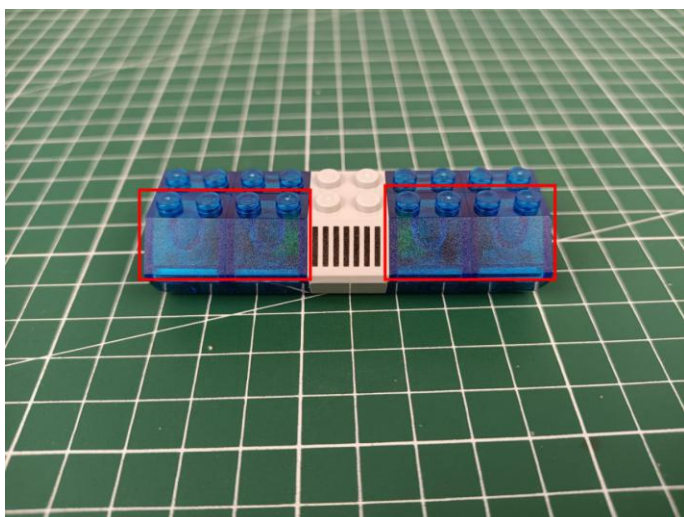




Turn to the tail, remove the following blue piece.

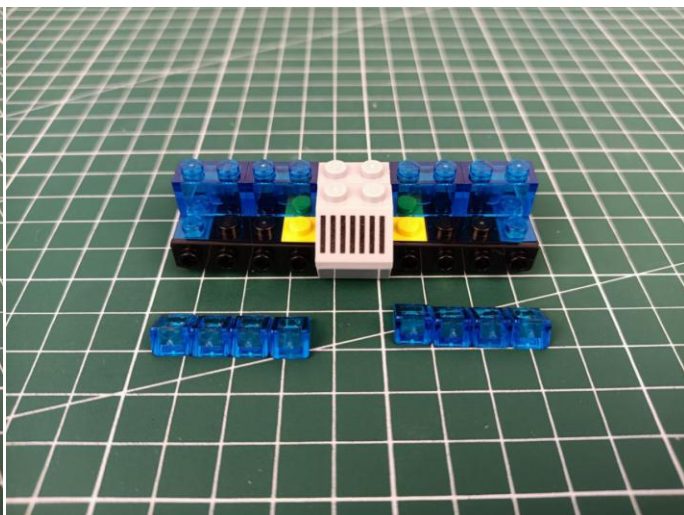
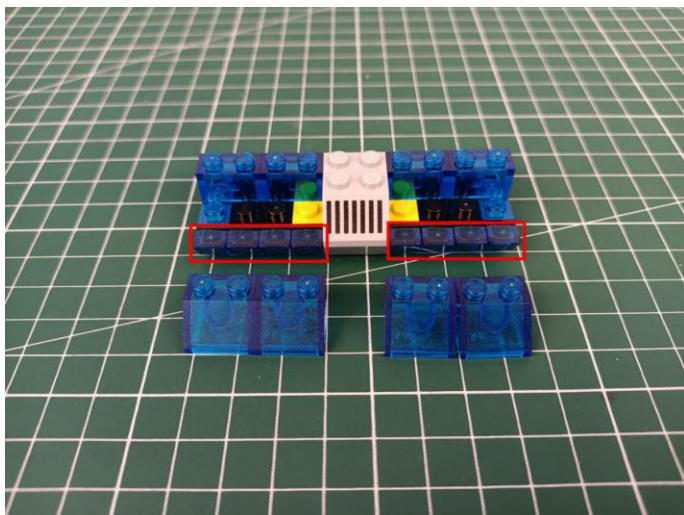


Disconnect the following 4 blue pieces.

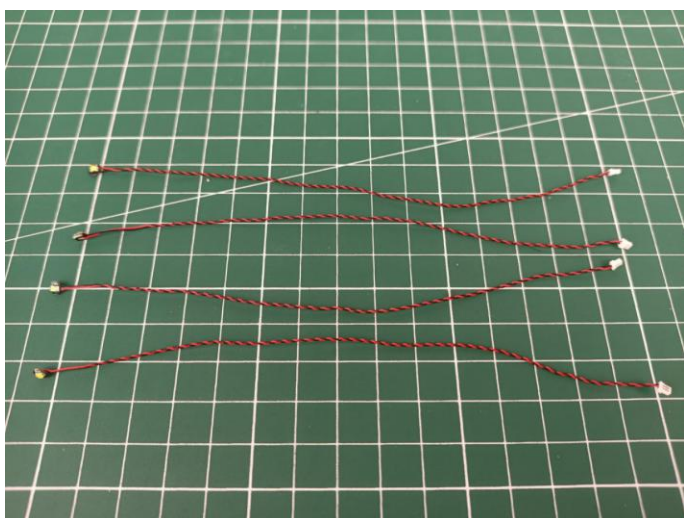


Continue to disconnect the following 8 blue pieces.

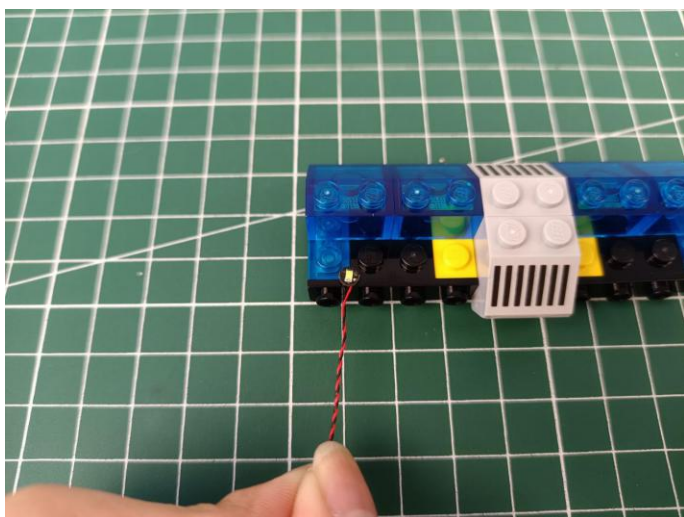




Take 4 white 15cm dot lights.

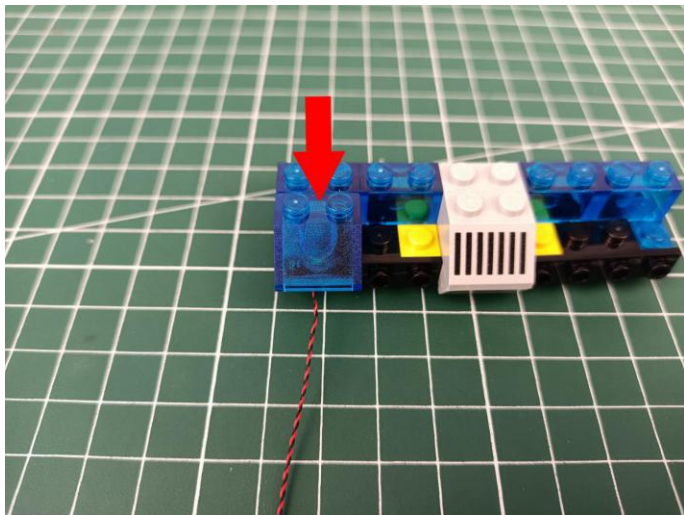


With lighting part facing up, place the light as per below.

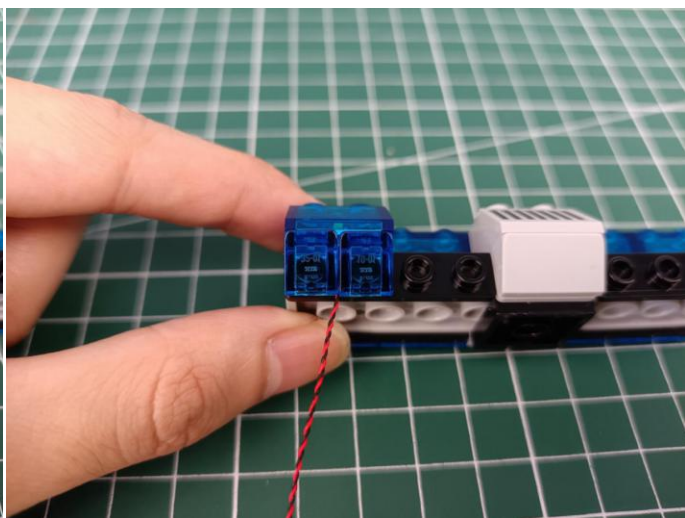
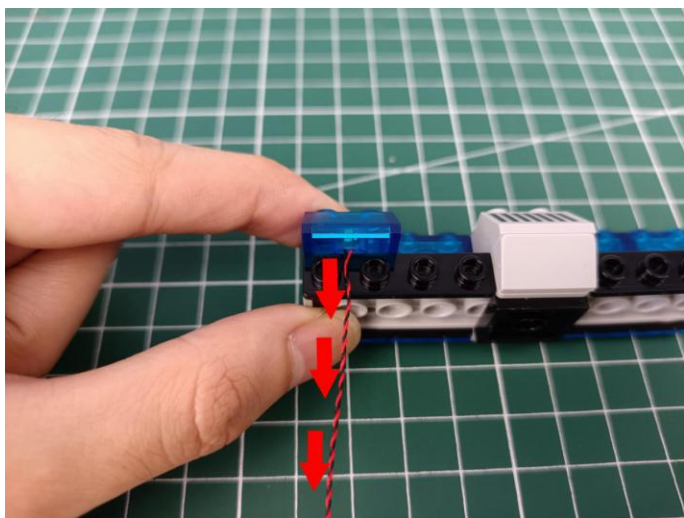


Reconnect the following blue piece.

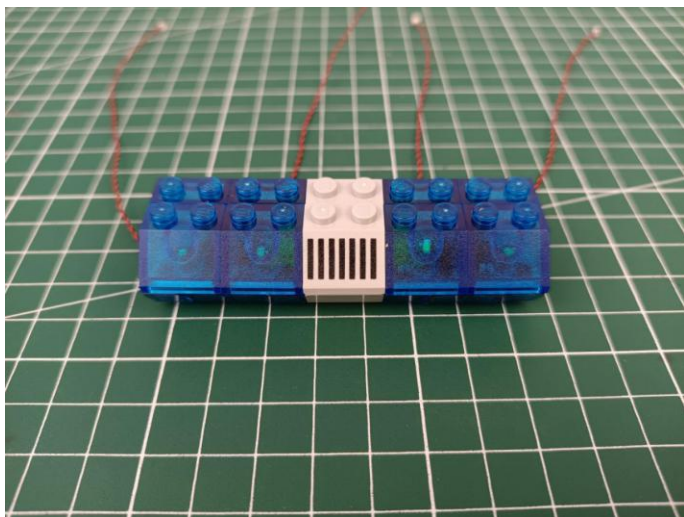




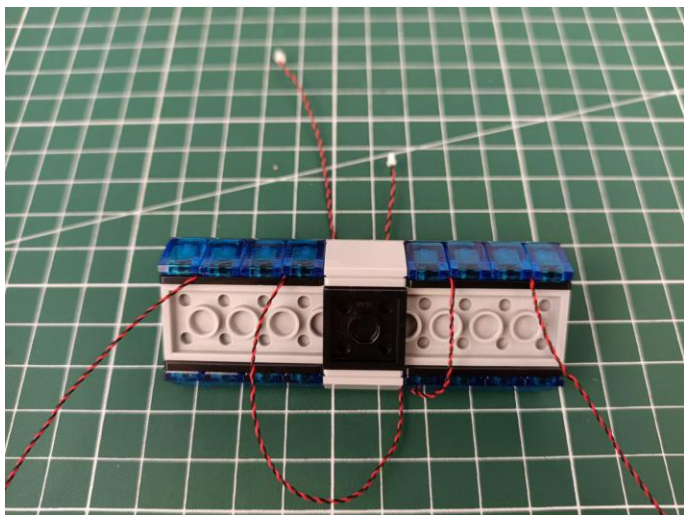
Place the cable as per below, reconnect the 2 blue pieces.



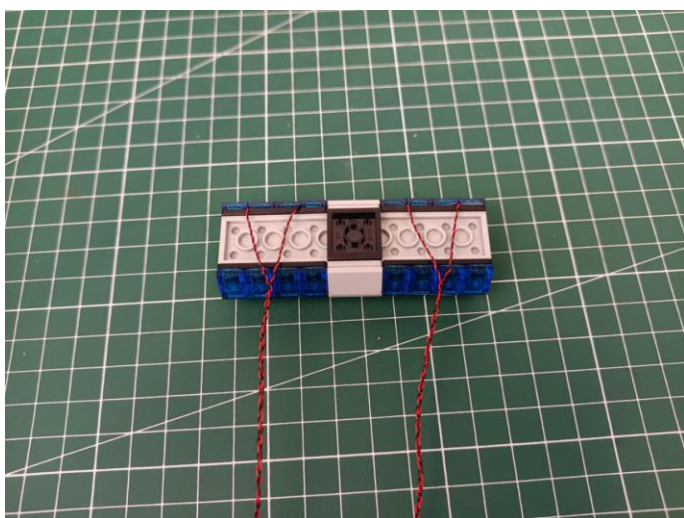
Install the other 3 lights in the same way.



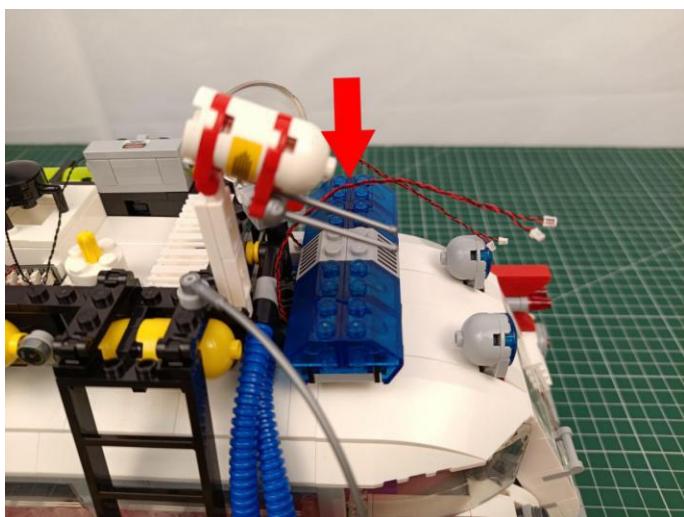
Turn the blue piece to the back.



Group the cables respectively together as per below.

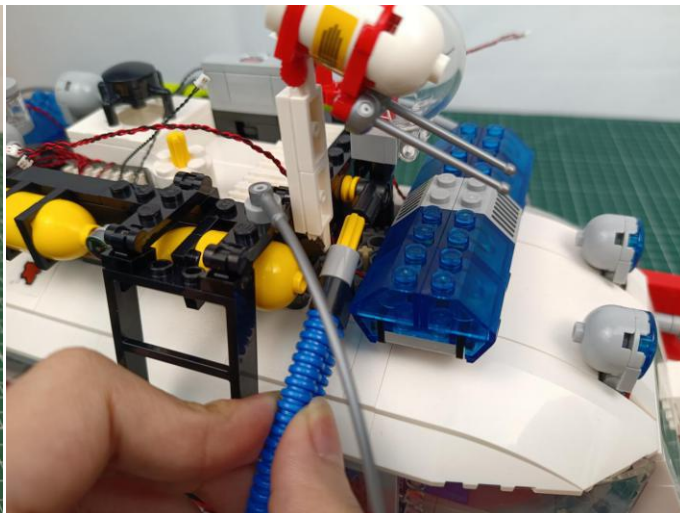
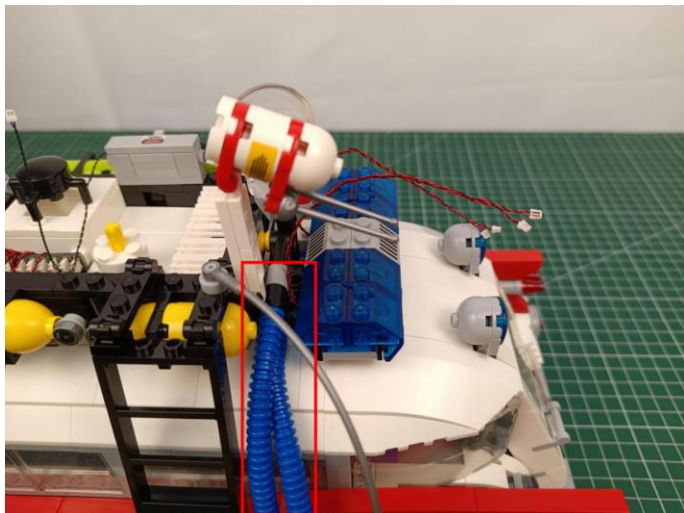


Reconnect the blue piece.

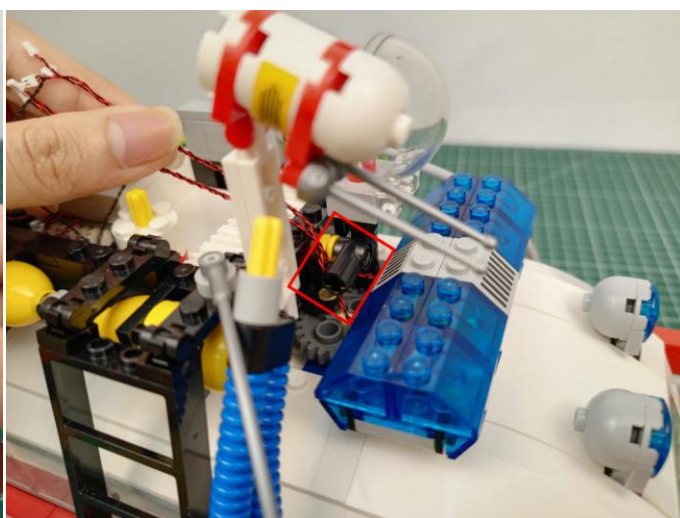
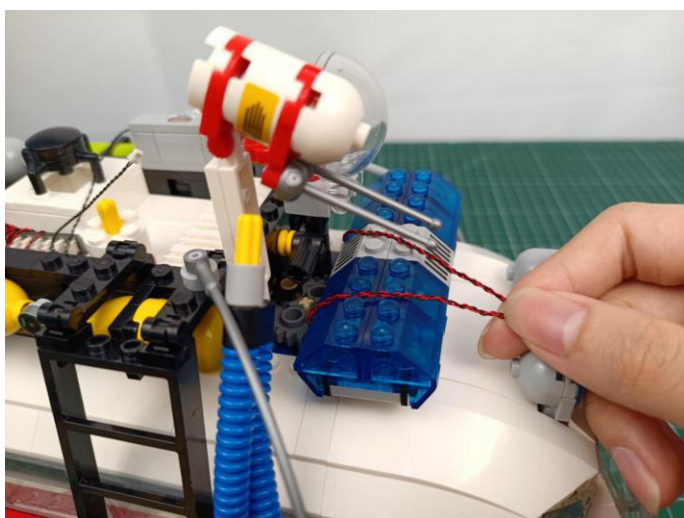


Push the following blue piece aside.

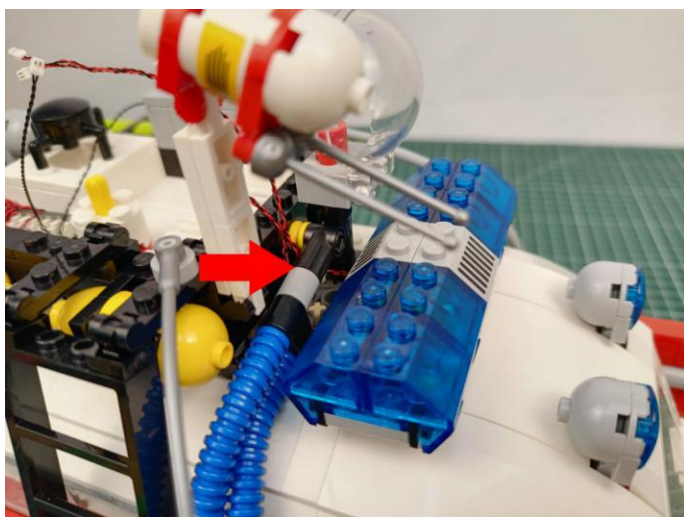




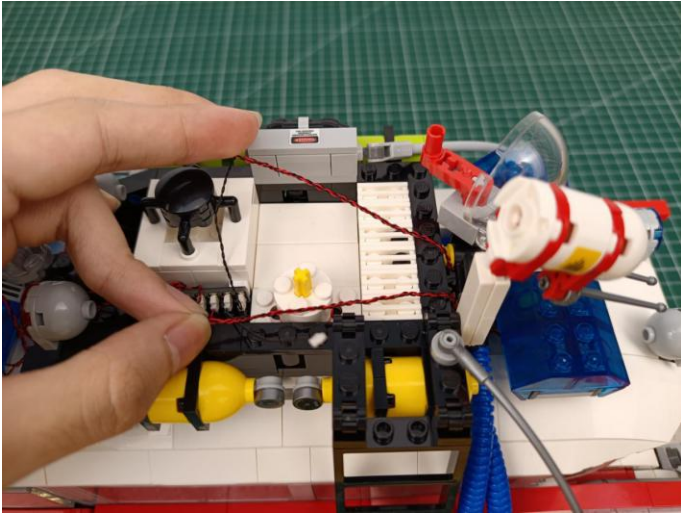
Thread the cable through the following place underneath the black piece and pull it out.



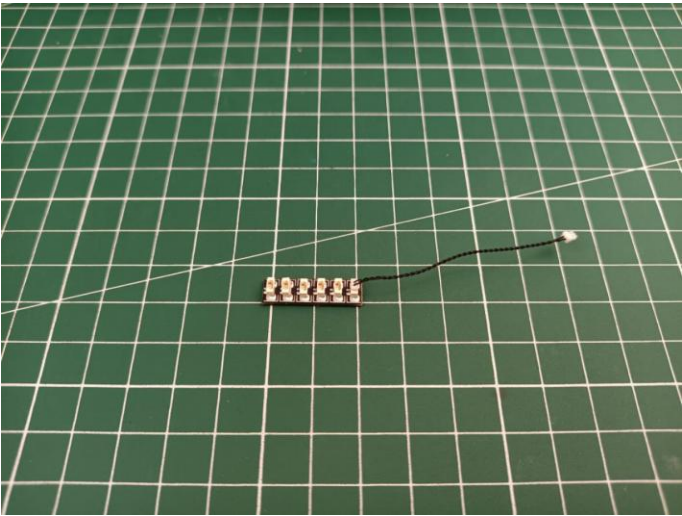
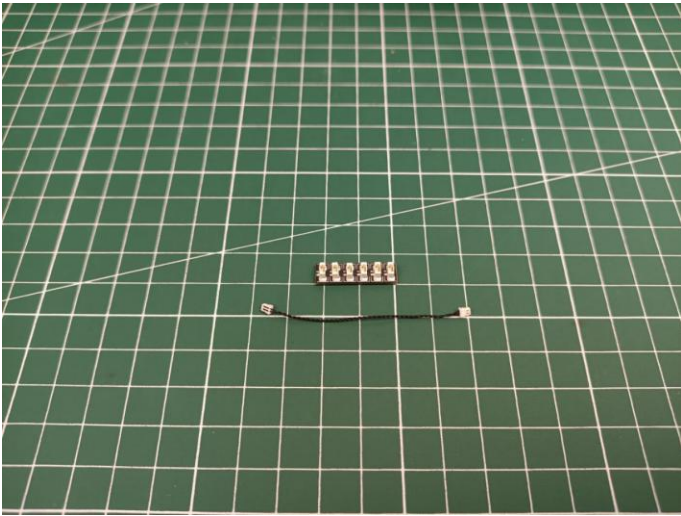
Reconnect the blue piece.



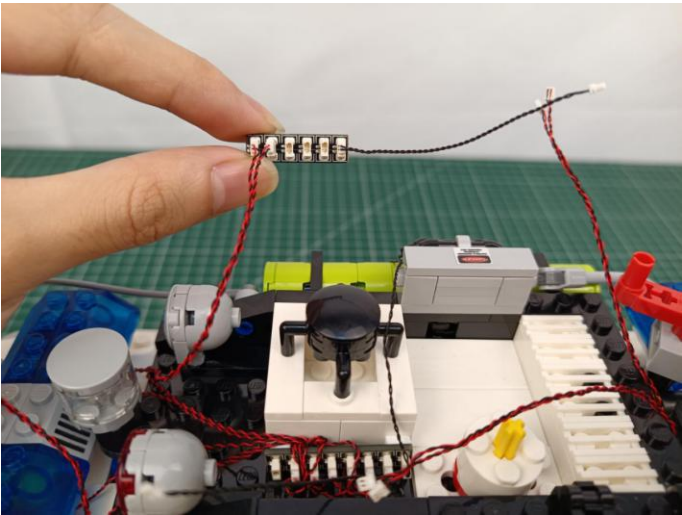
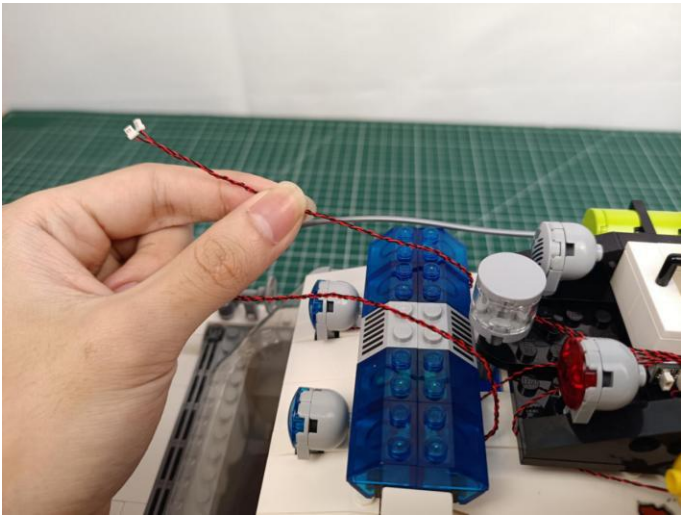
As per below.



Take a 5cm connecting cable, a 6-port expansion board, assemble them as per below.

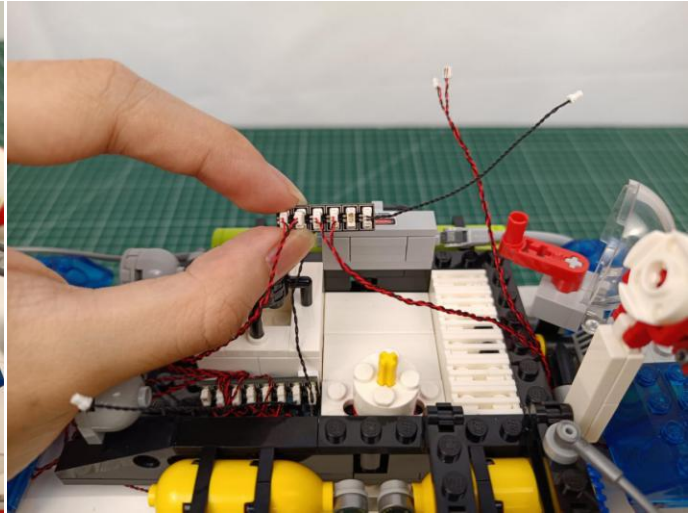
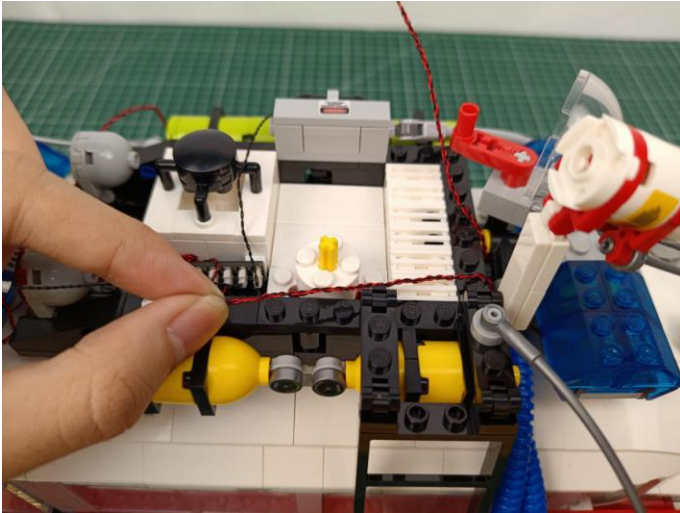


Take the following cables and connect them to the expansion board.

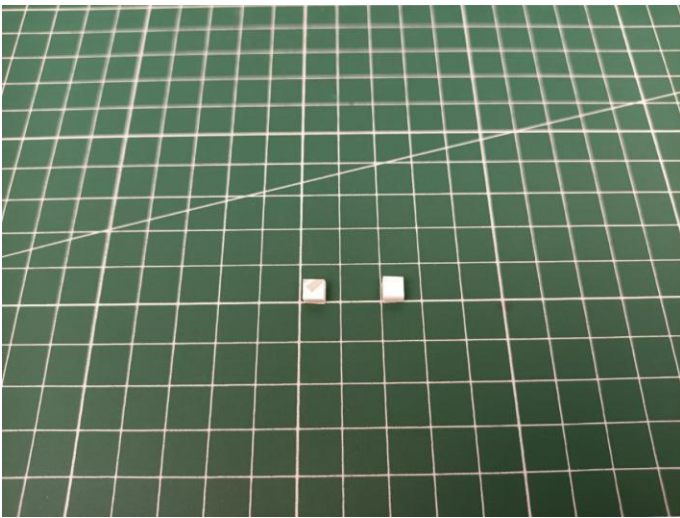


Take the following cables from the back and connect them to the expansion board.

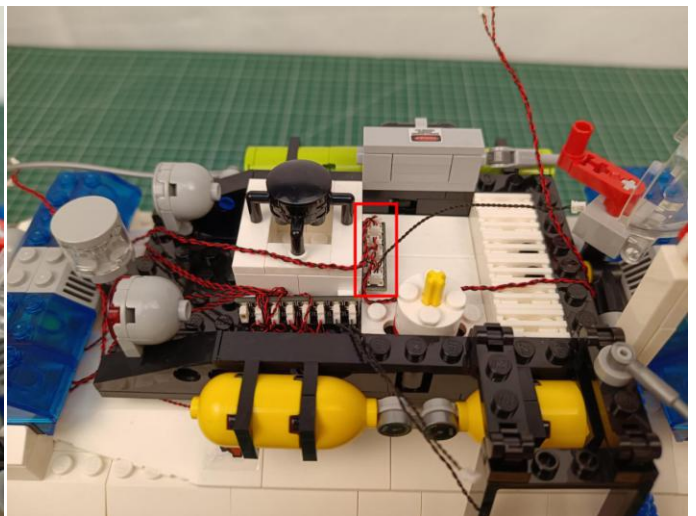
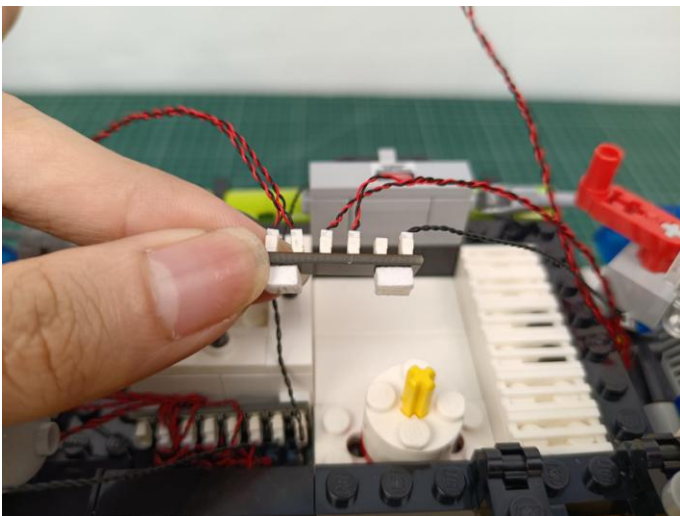




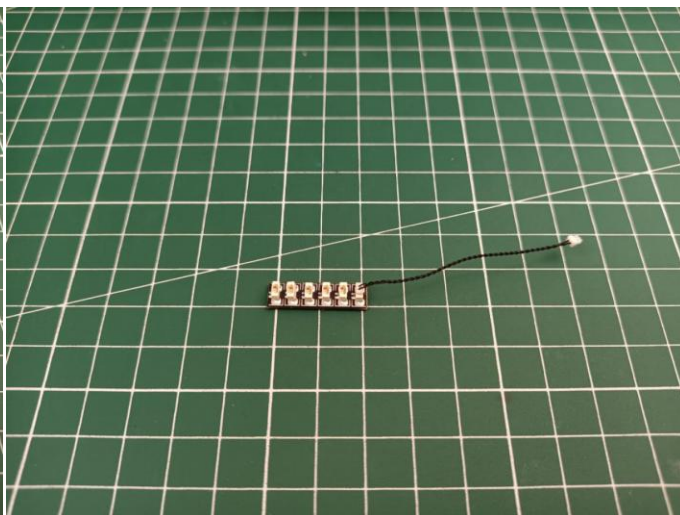
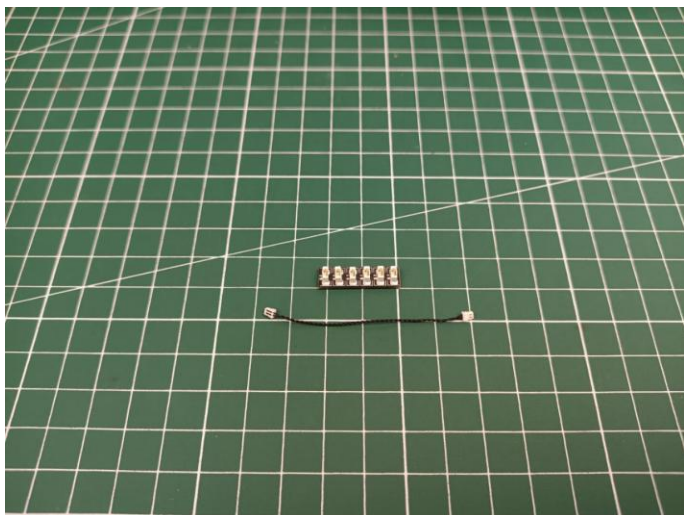
Take 2 adhesive squares.



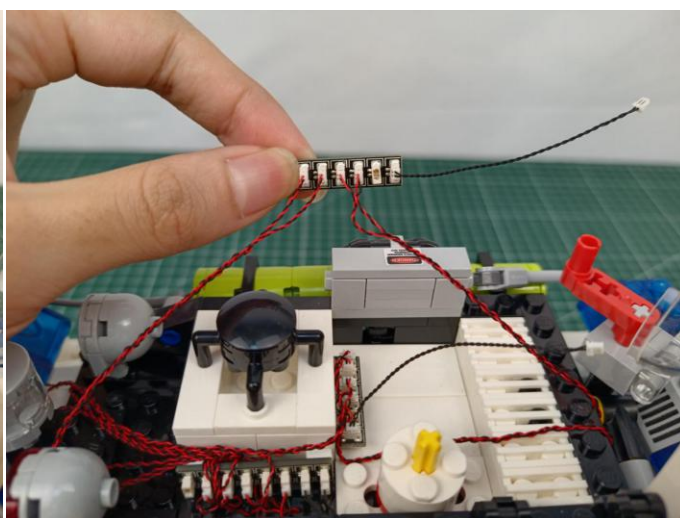
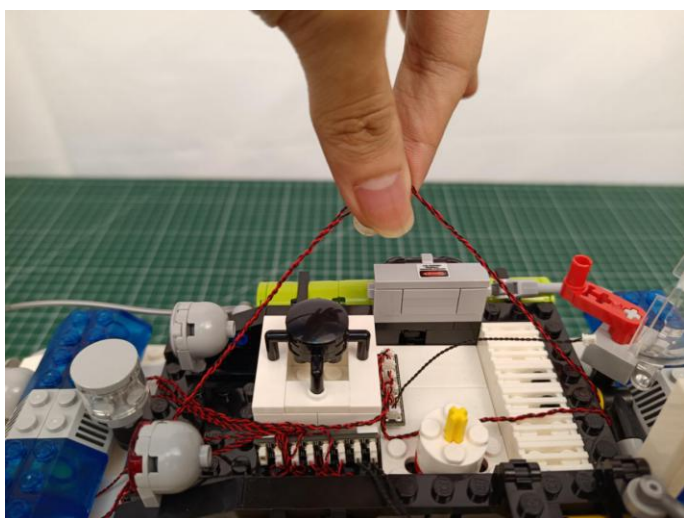
Stick them to the back of the expansion board, and stick the expansion board to the following place.



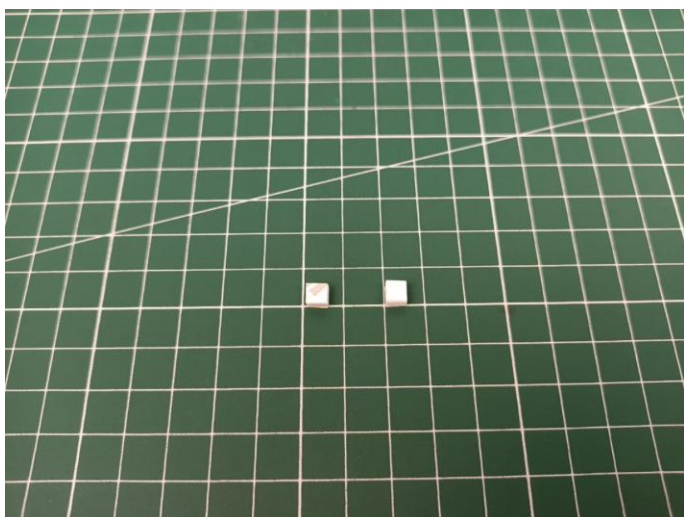
Take a 5cm connecting cable, a 6-port expansion board, assemble them as per below.



Connect the following cables to the expansion board.

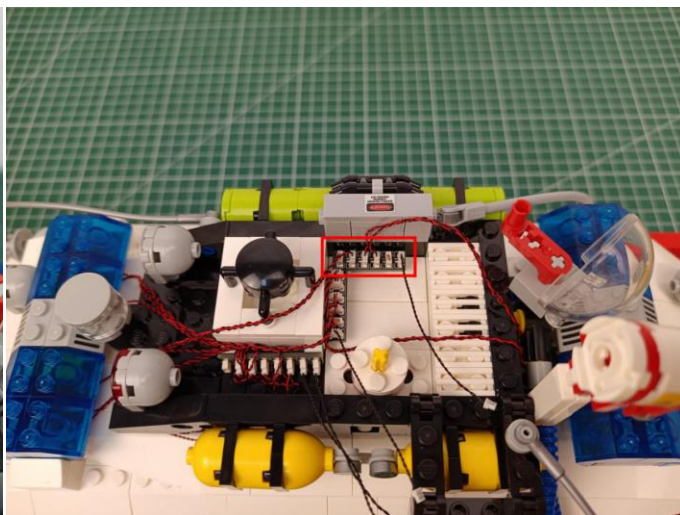
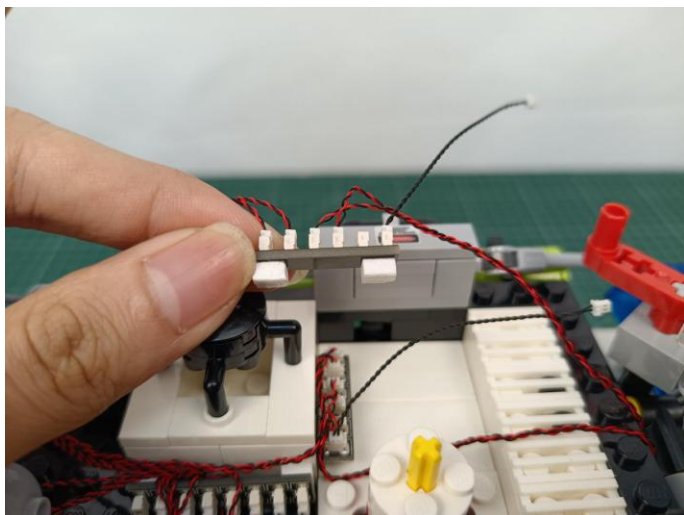


Take 2 adhesive squares.

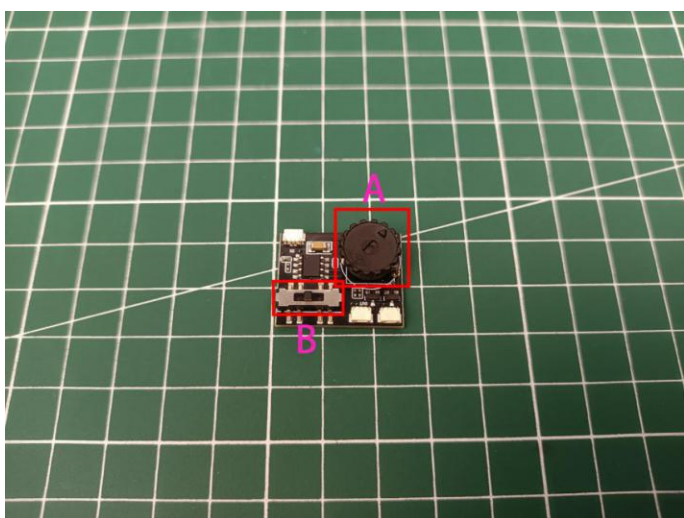


Stick them to the back of the expansion board, and stick the expansion board to the following place.

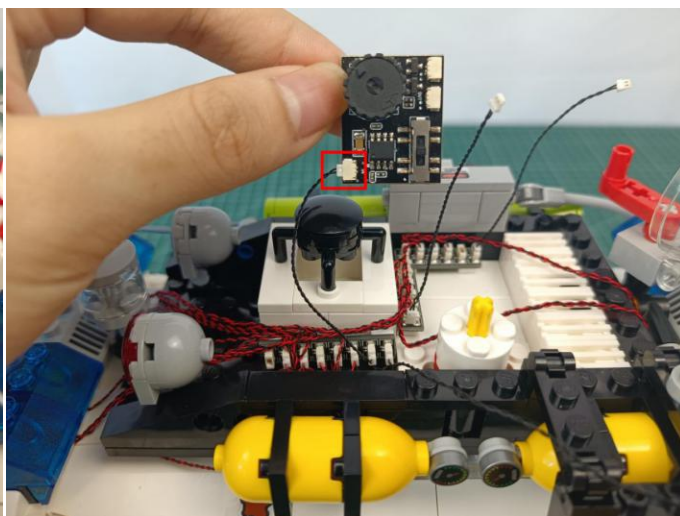
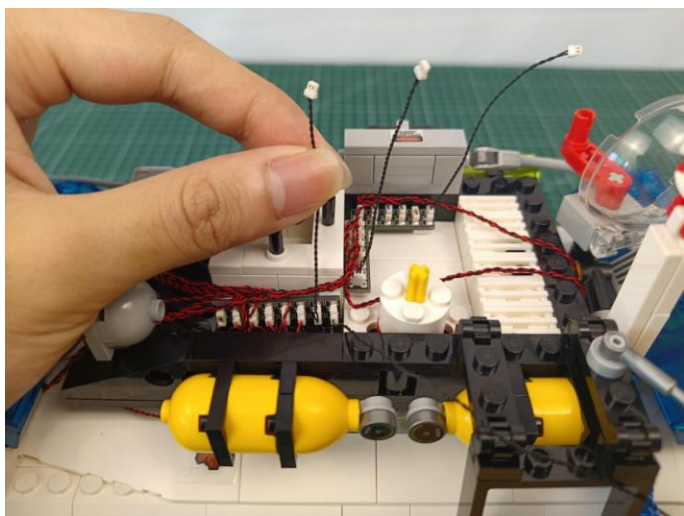




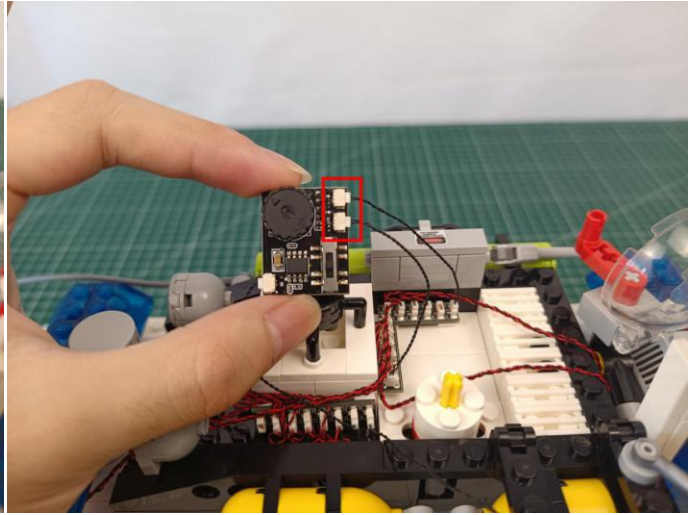
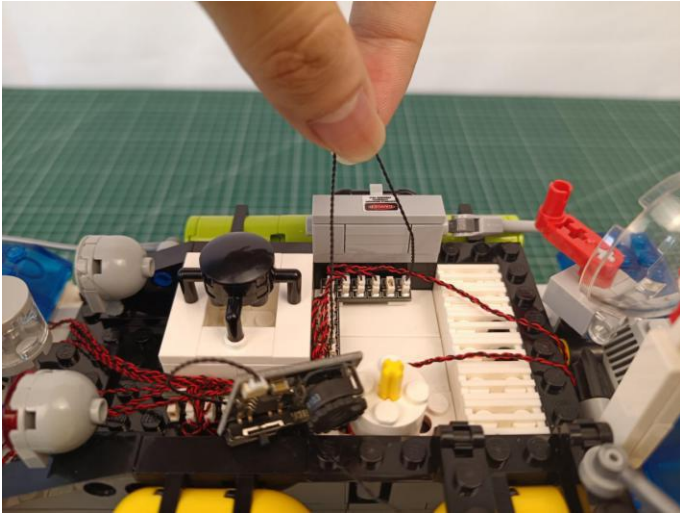
Take a Flicker Effects Board (A: rotate to adjust the frequency B: turn left and right to adjust the mode).



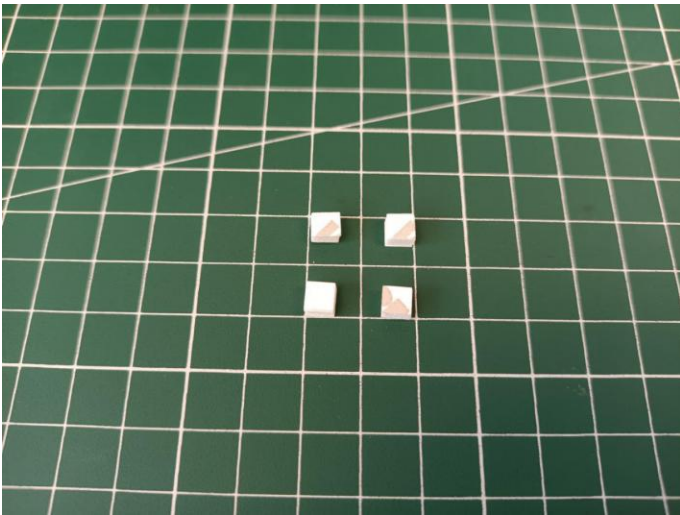
Connect the following 5cm cable from the expansion board to the power port on the Flicker Effects Board.



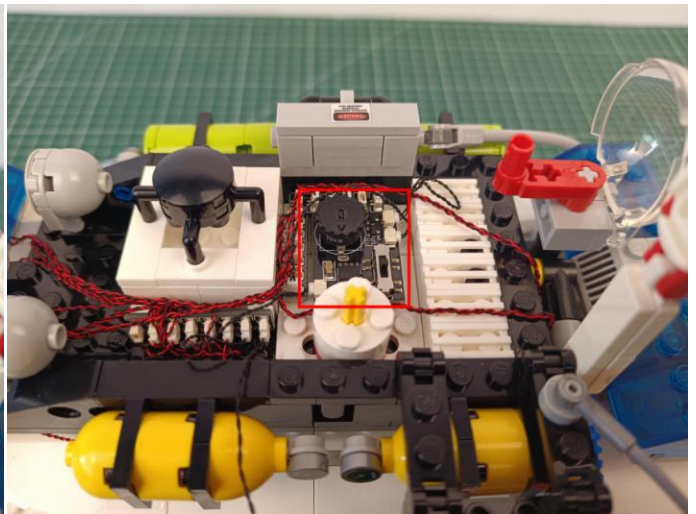
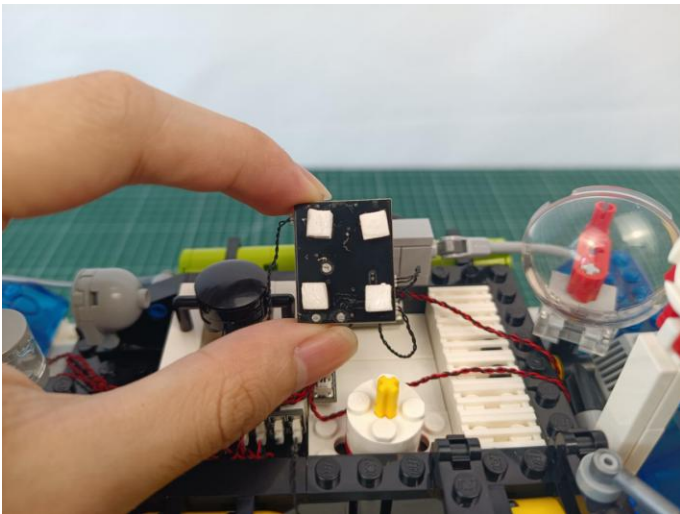
Connect the following cables from the 2 expansion boards to the ports on the Flicker Effects Board.



Take 4 adhesive squares.

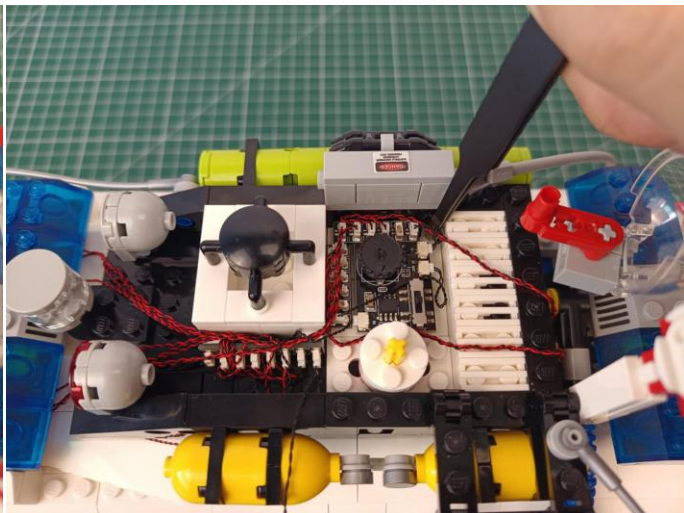
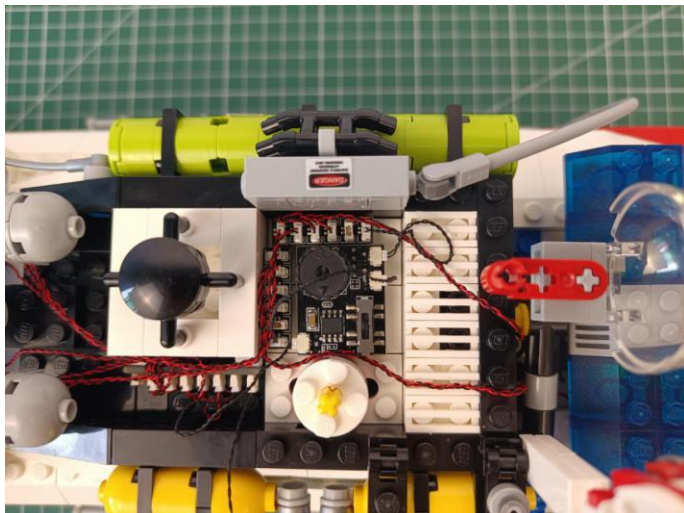


Stick them to the back of the Flicker Effects Board, and stick the Flicker Effects Board to the following place.

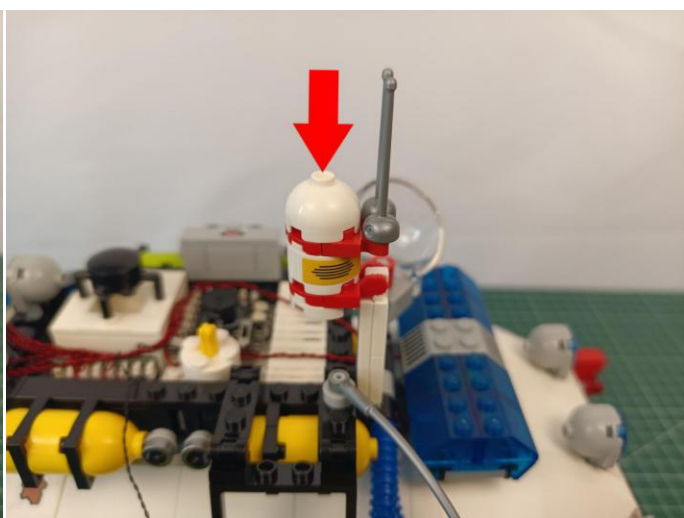
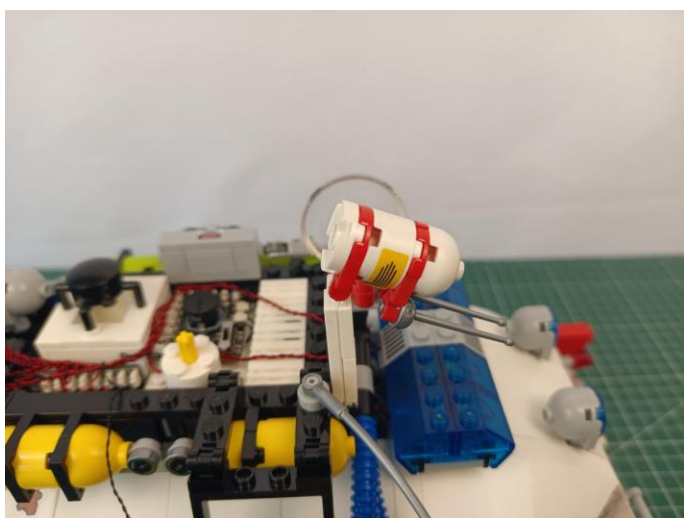


Tuck the cables with the tweezer.

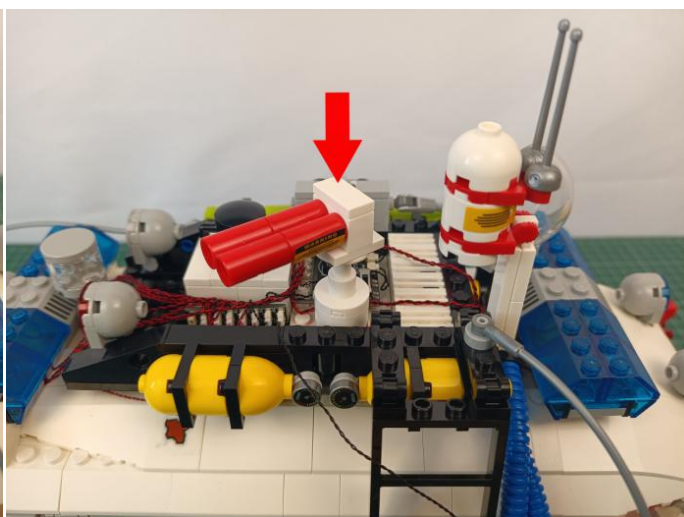
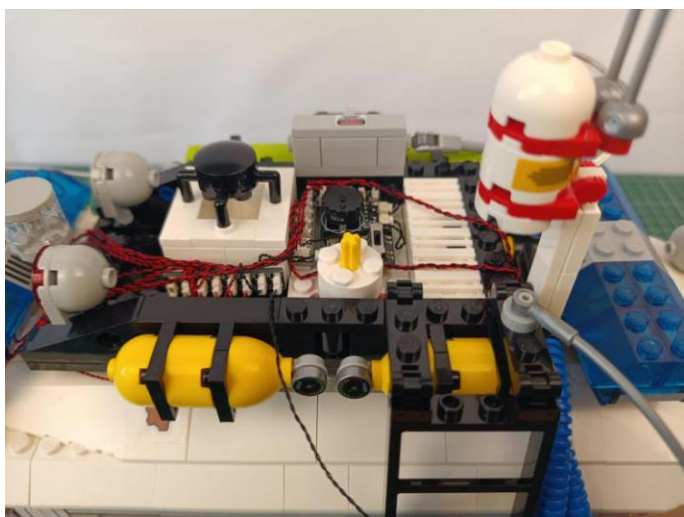




Reconnect the following piece.

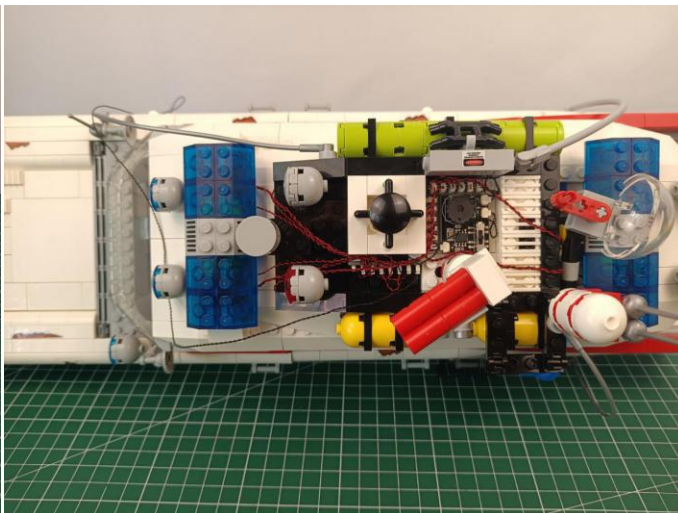


Continue to reconnect the following piece.

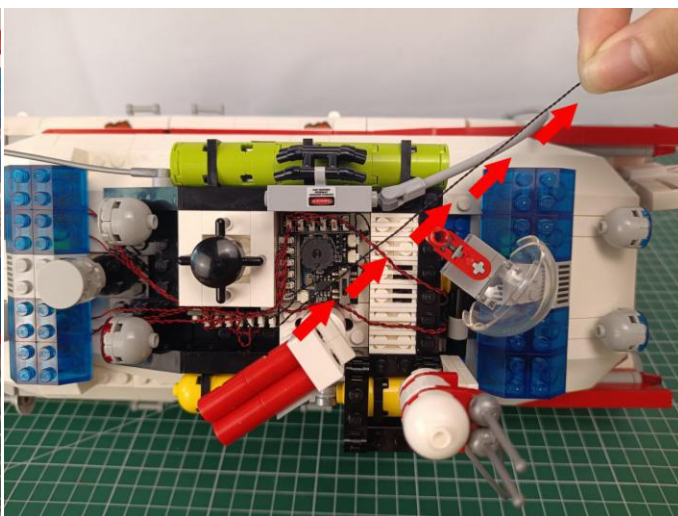
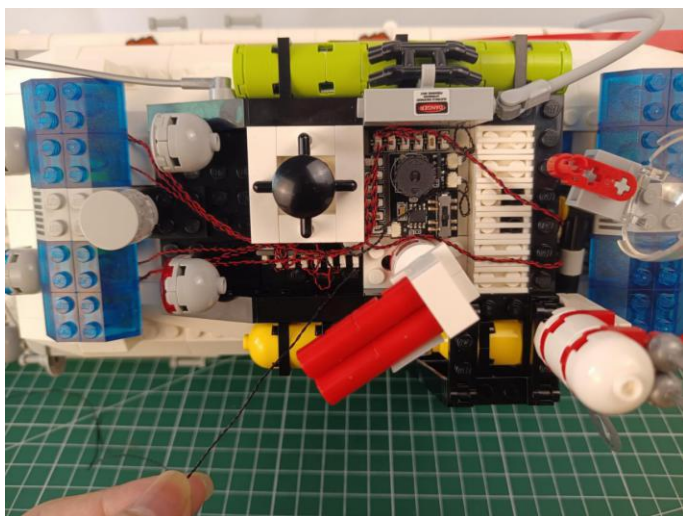


Turn the car over.

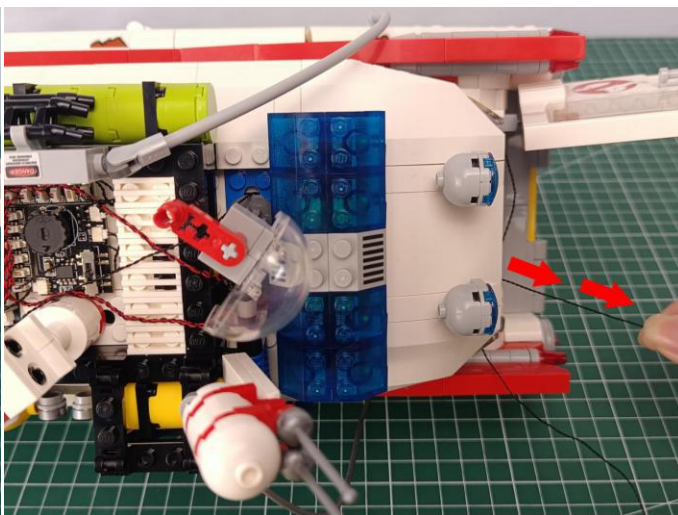
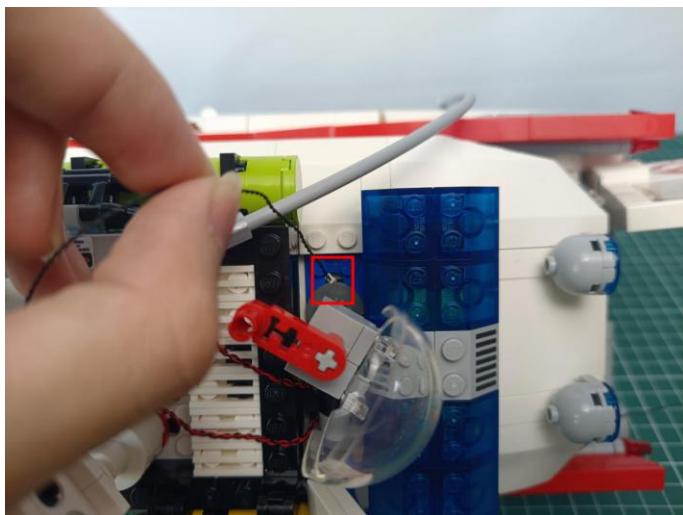




Pull the following cable to the back.

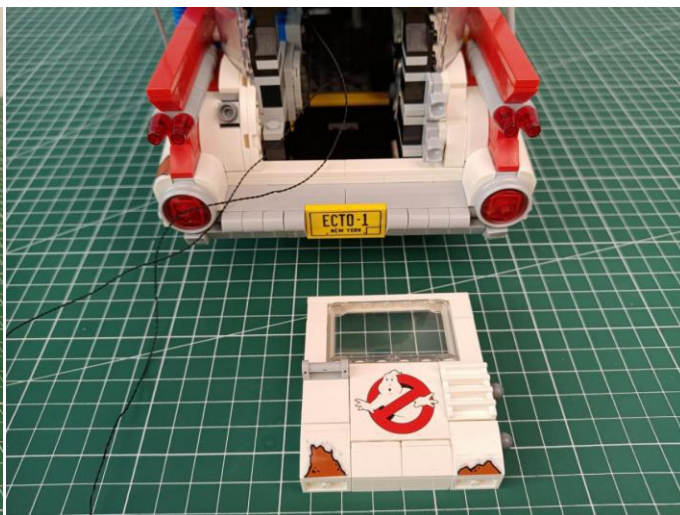
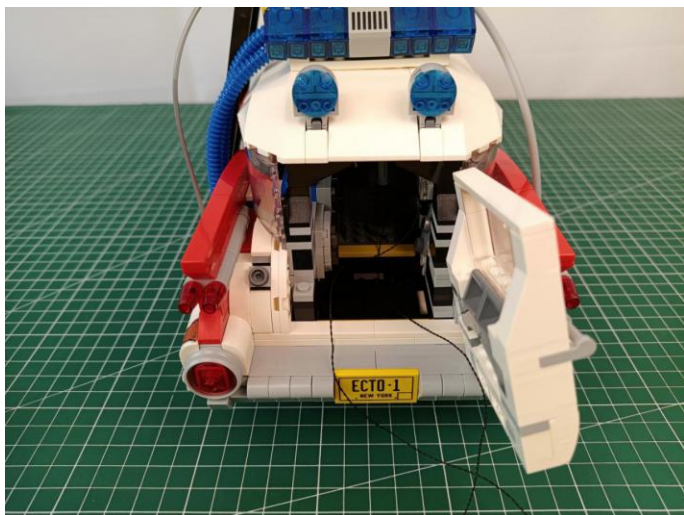


Continue to thread the cable through the following space, and pull it out from the back.

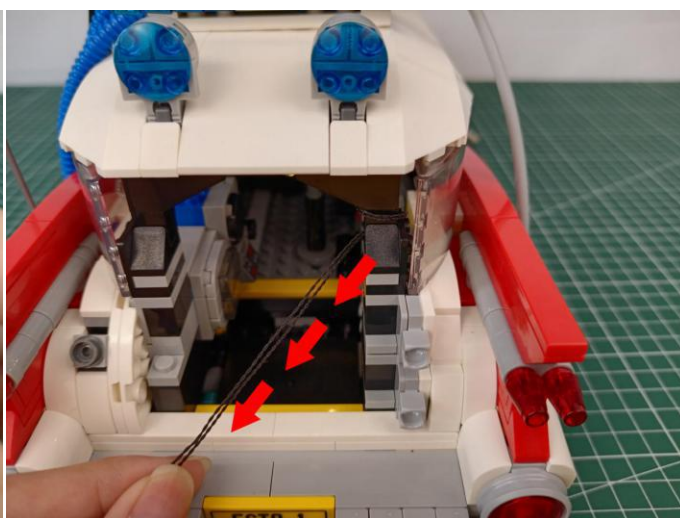
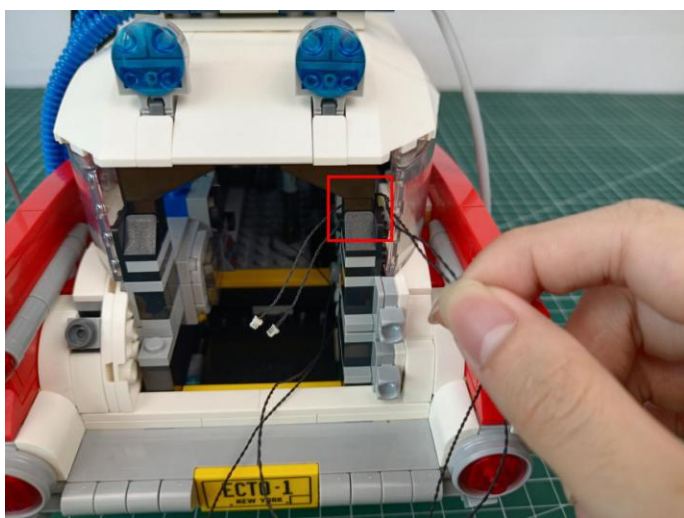


Turn to the tail, remove the door.

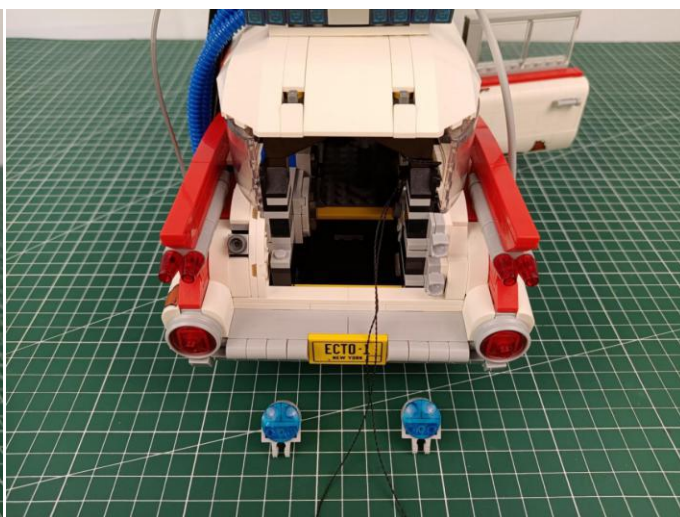
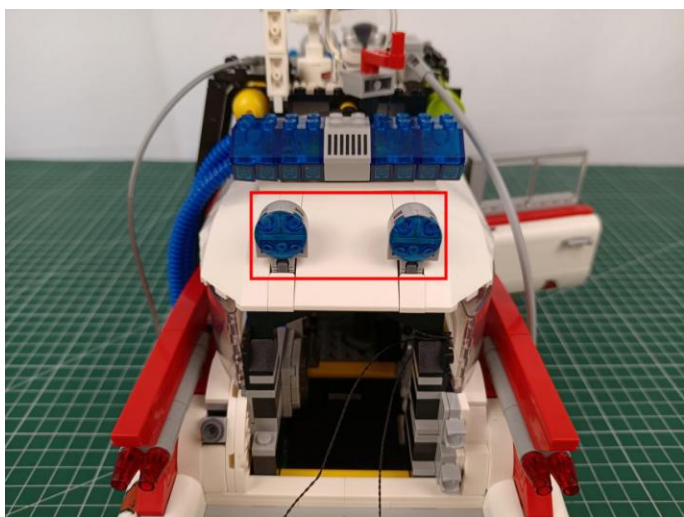




Wind the 2 cables around the following piece as per below.

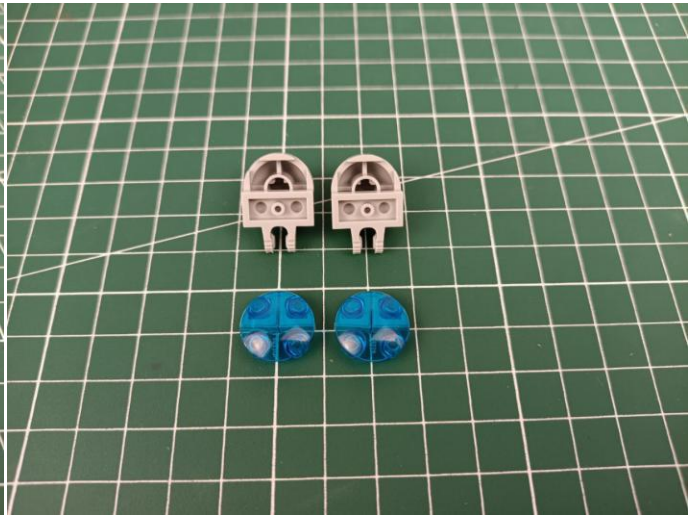


Remove the lights from both sides.



Disconnect the blue pieces.

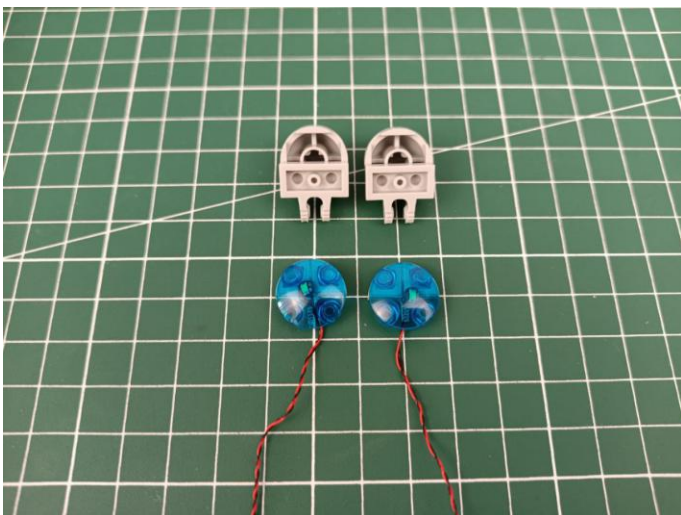




Take 2 white 30cm dot lights.

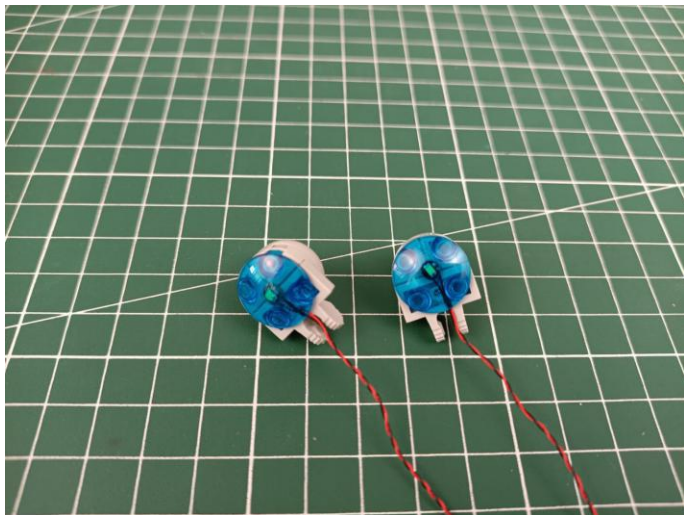


With lighting part facing up, place the lights inside the blue pieces.

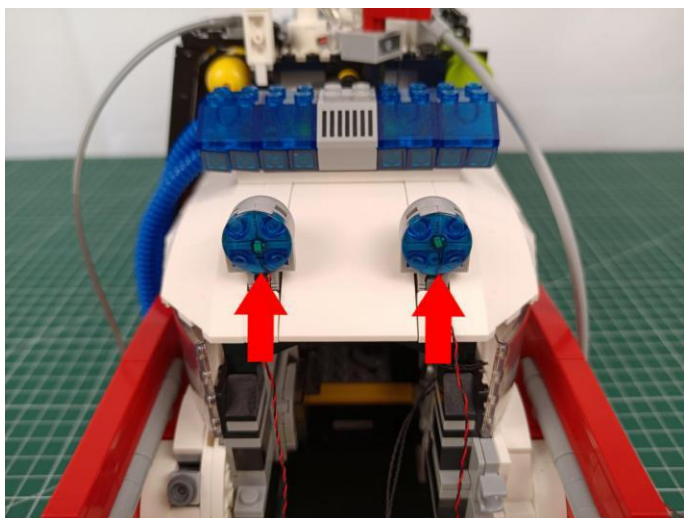


Reconnect the lights.

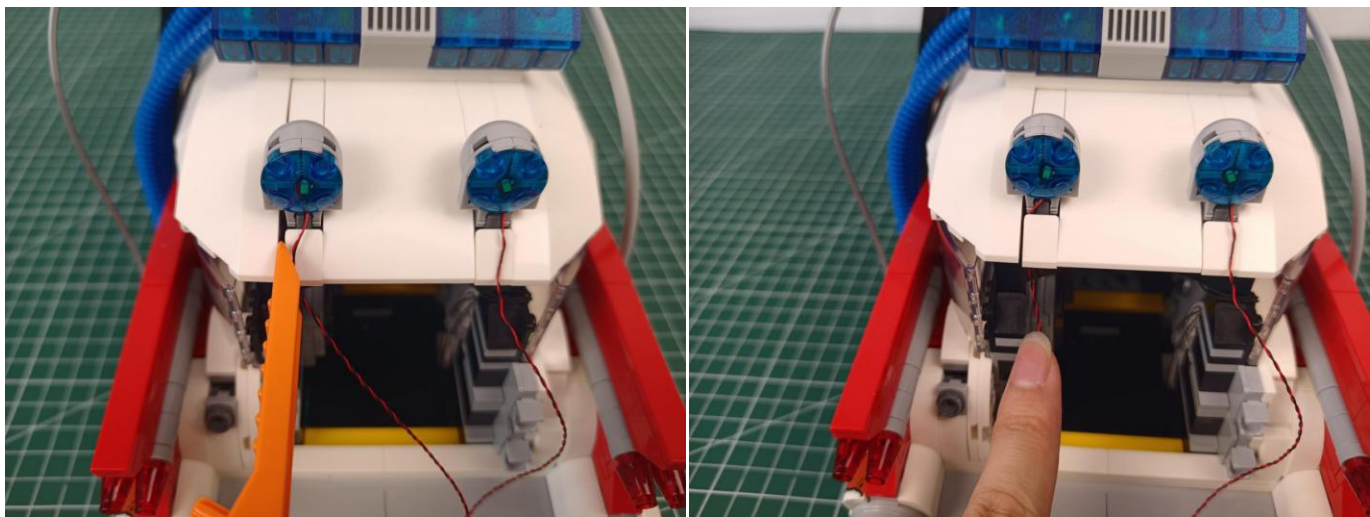




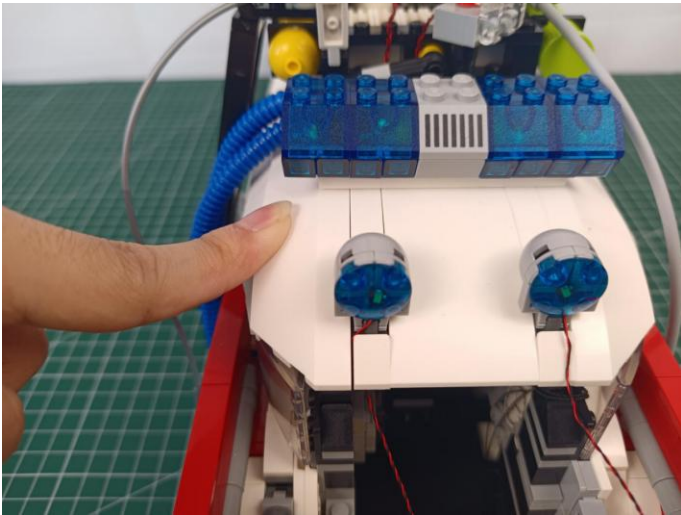
Reconnect the lights to the car.



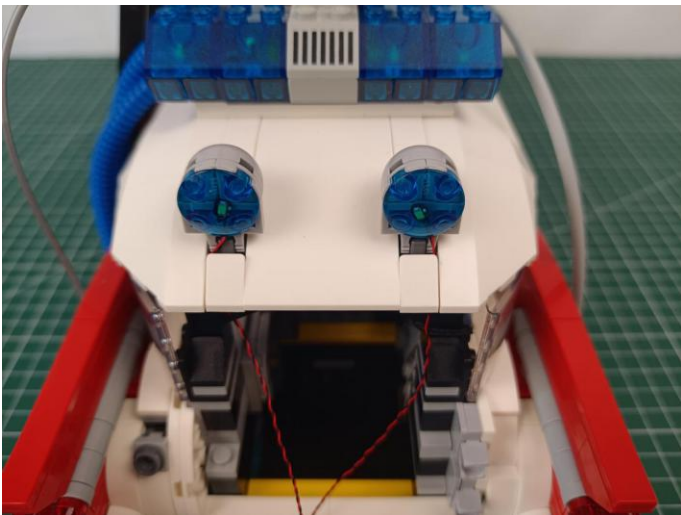
Create a gap at the following place with the tool, and stick the cable as per below.



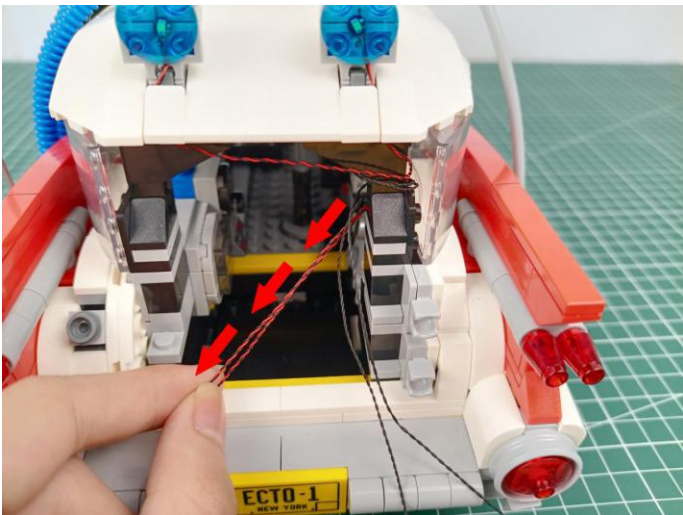
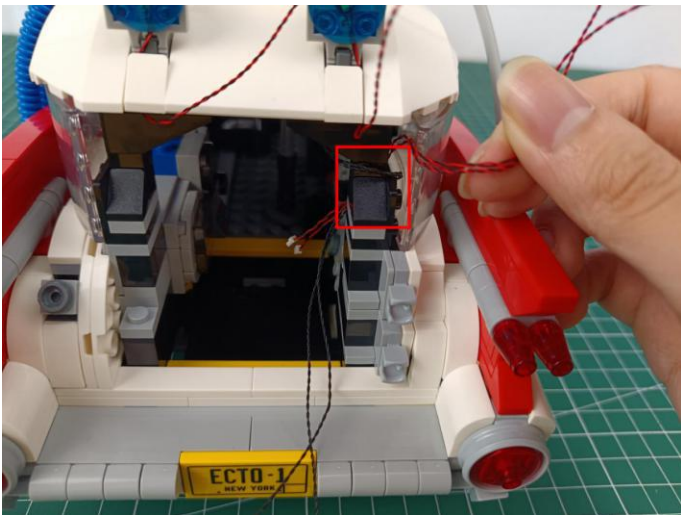
Close the gap.



Place the cable of the other light in the same way.

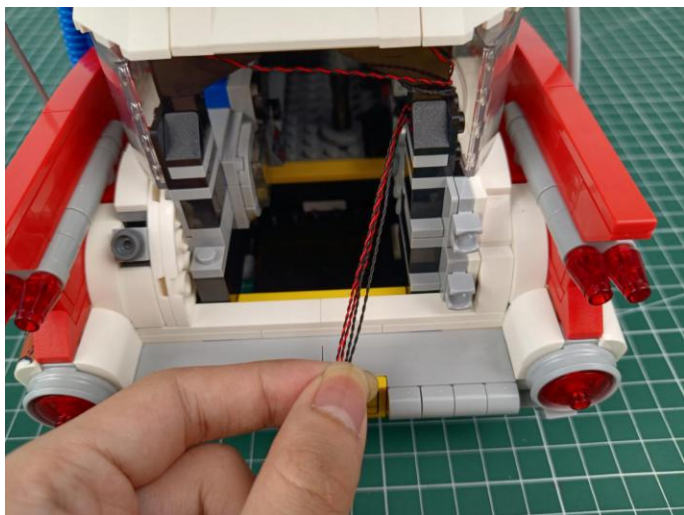


Wind the 2 cables around the following piece as per below.

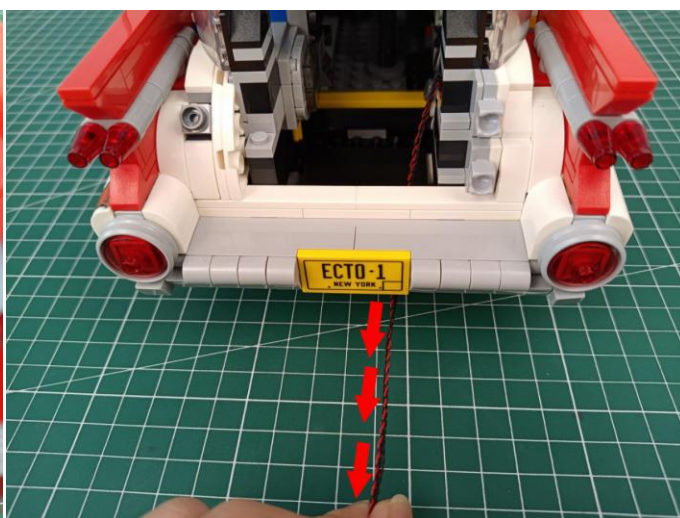
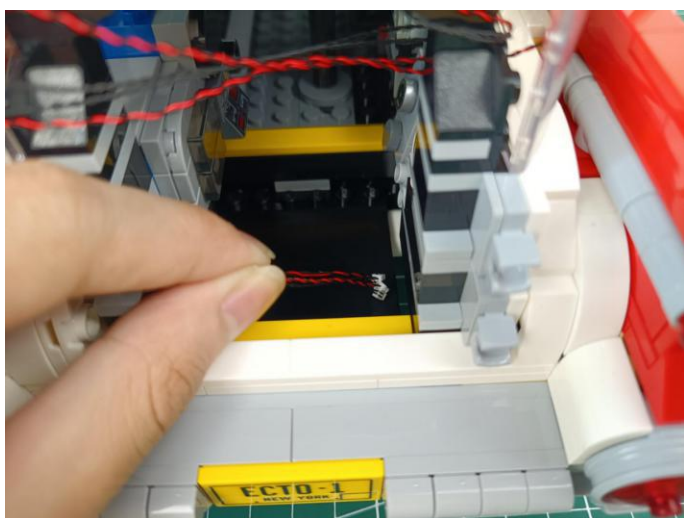


Take the following 4 cables.

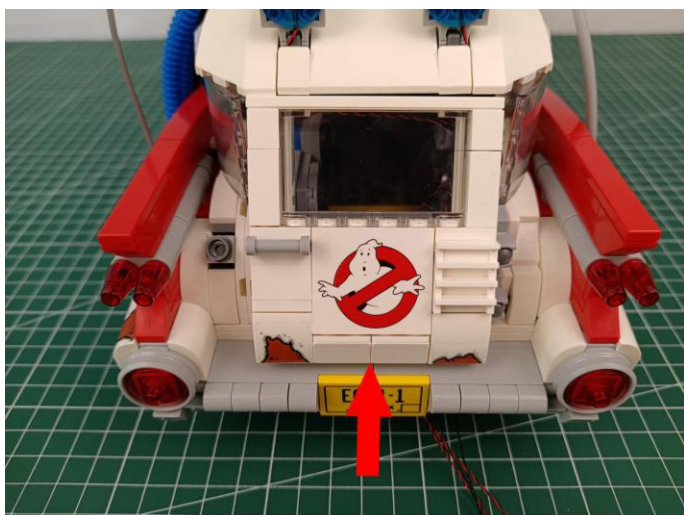




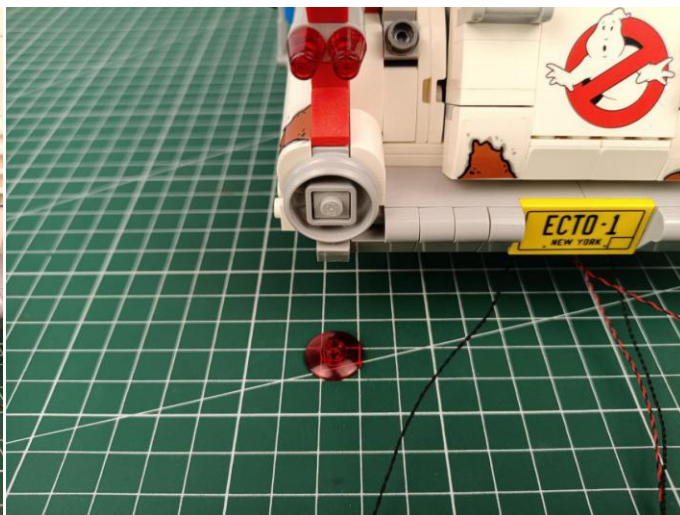
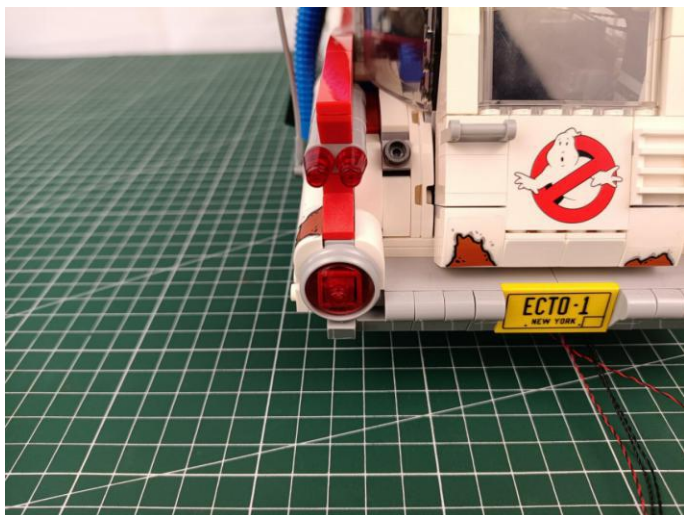
Thread them through the following space and pull them out from the bottom.



Reconnect the door.



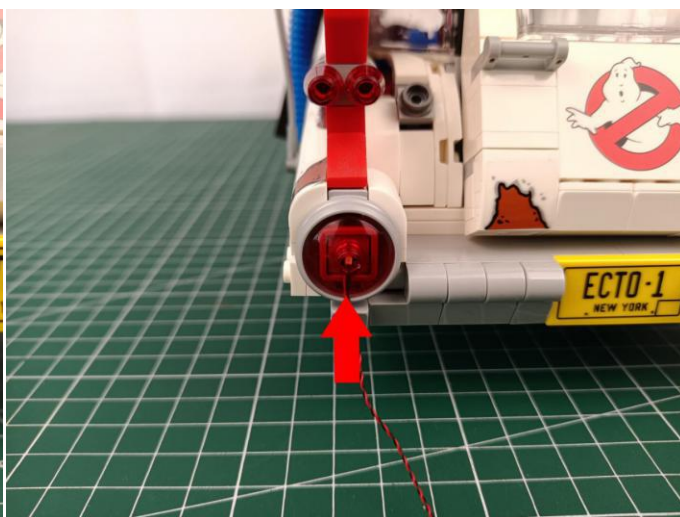
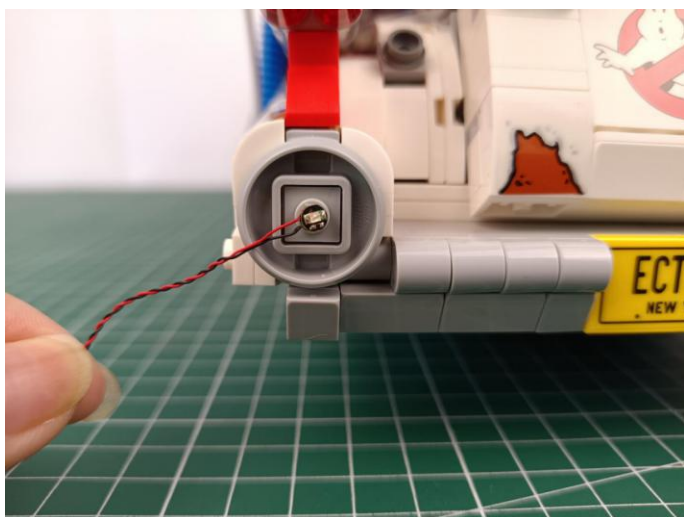
Remove the following red piece from the light.



Take 2 red 30cm dot lights.

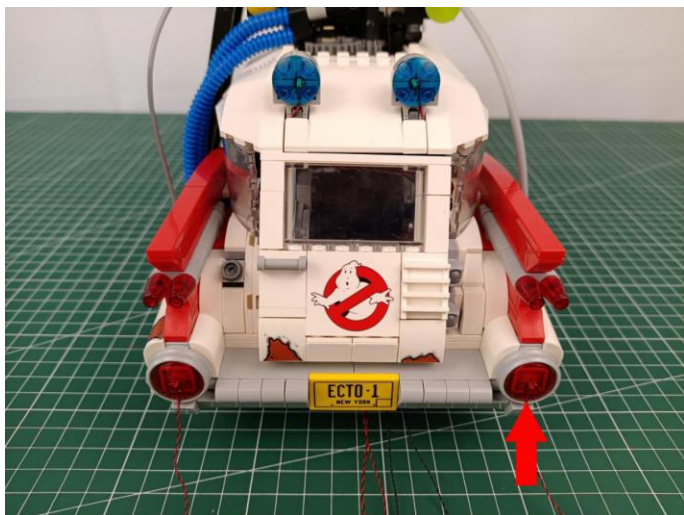


With lighting part facing up, reconnect the red piece.

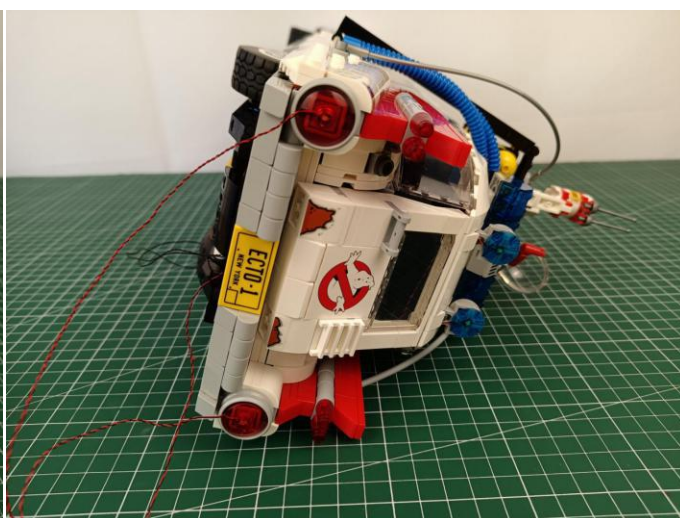


Install the other light in the same way.

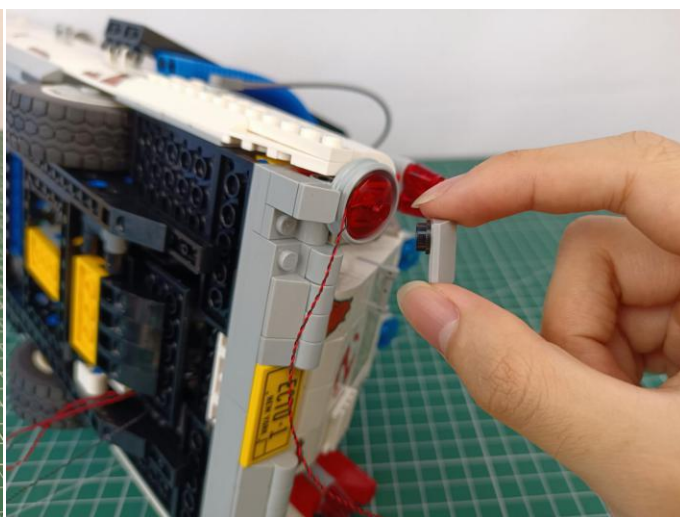
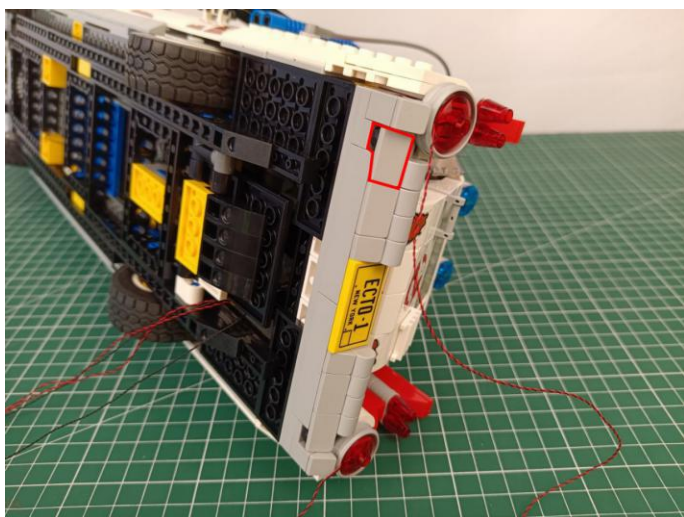




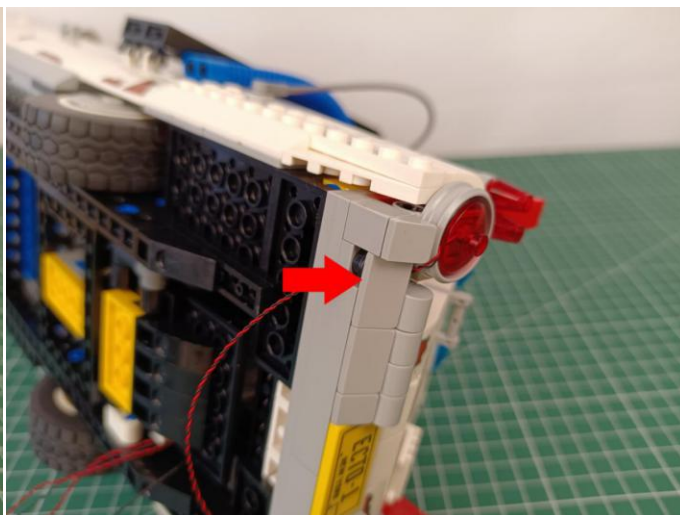
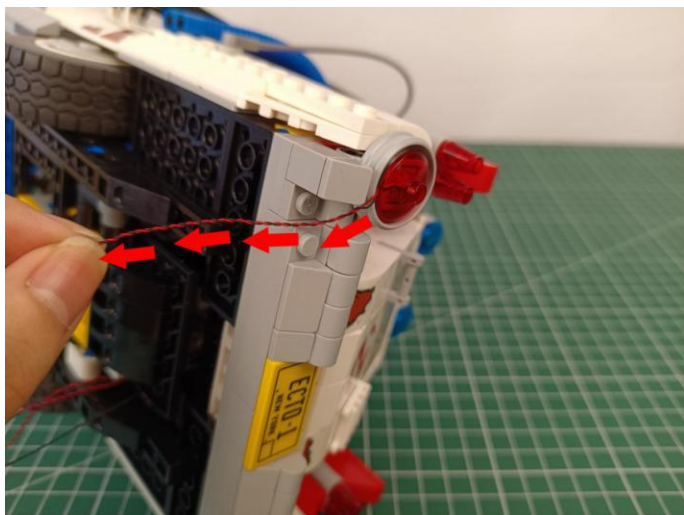
Turn the car over.



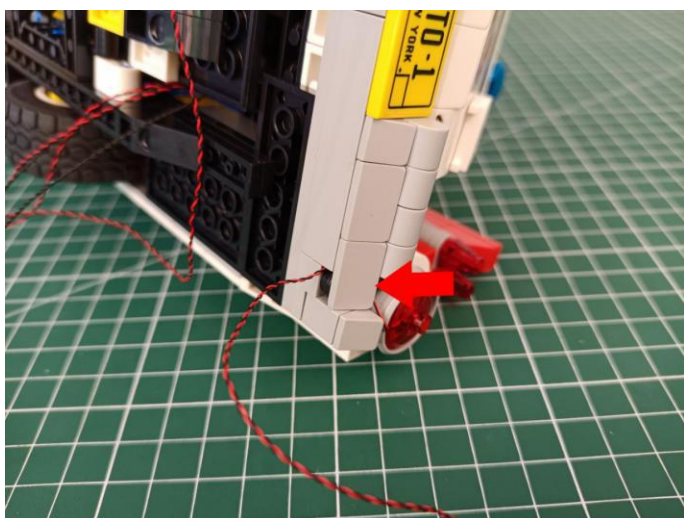
Remove the following piece.



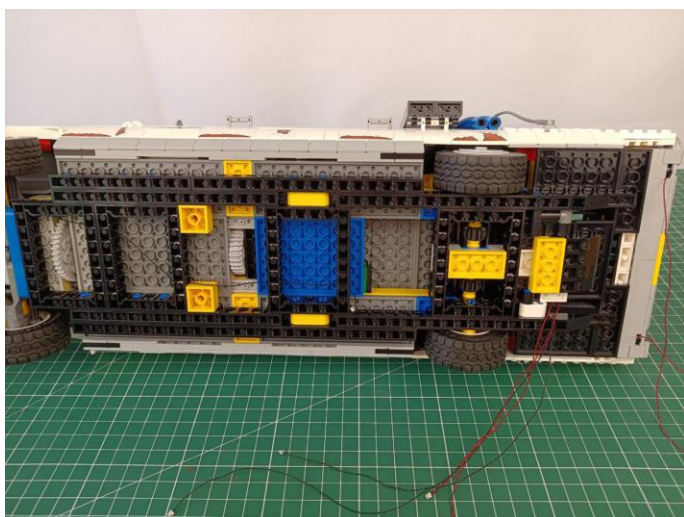
Place the cable as per below, reconnect the piece.



Place the other cable in the same way.

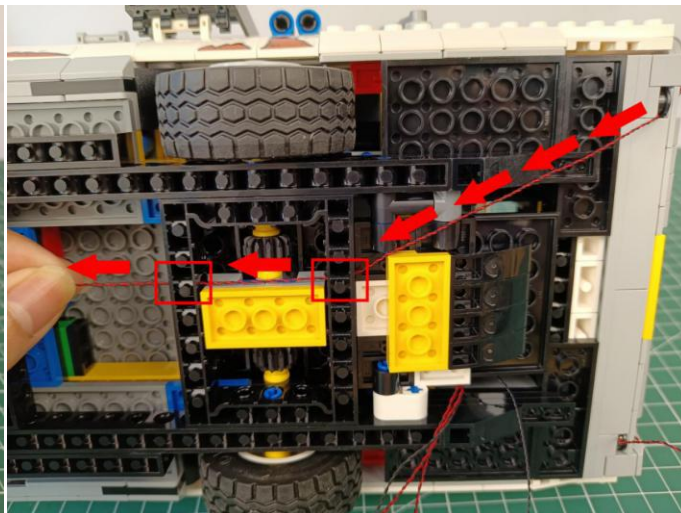
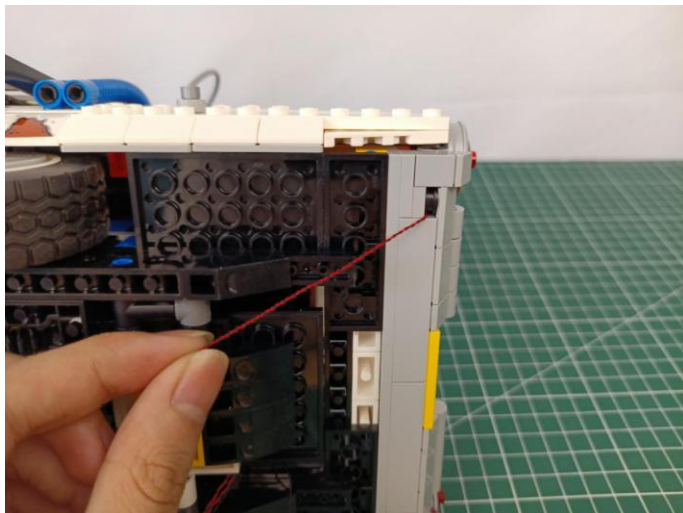


Turn to the following place.

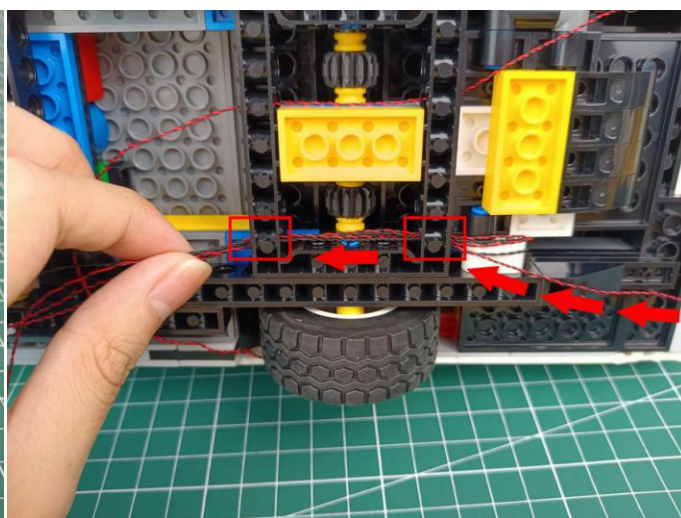
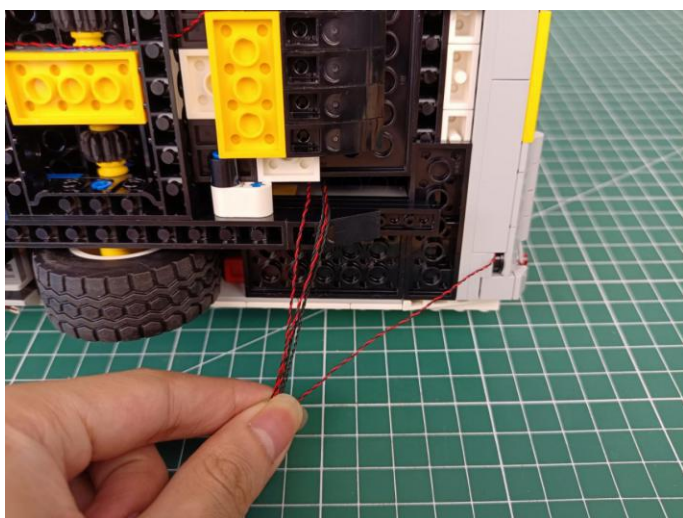


Thread the cable through the following space as per below.

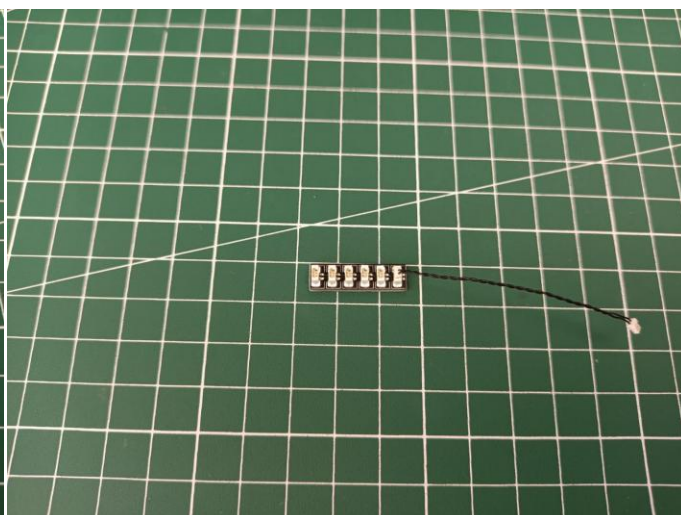
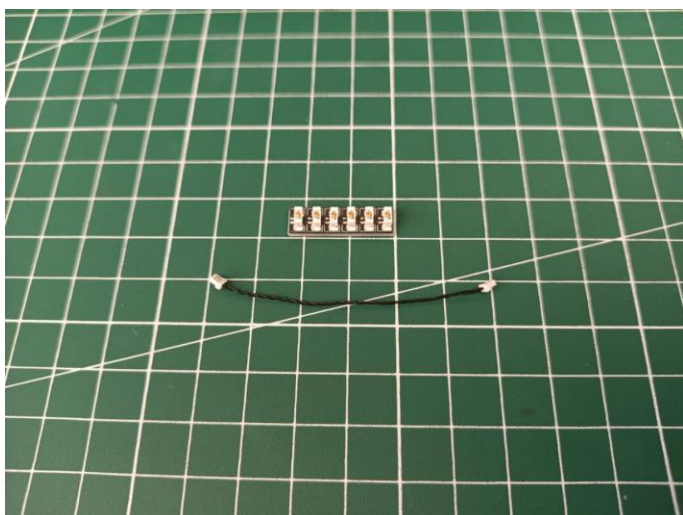




Thread the following cables through the following holes.

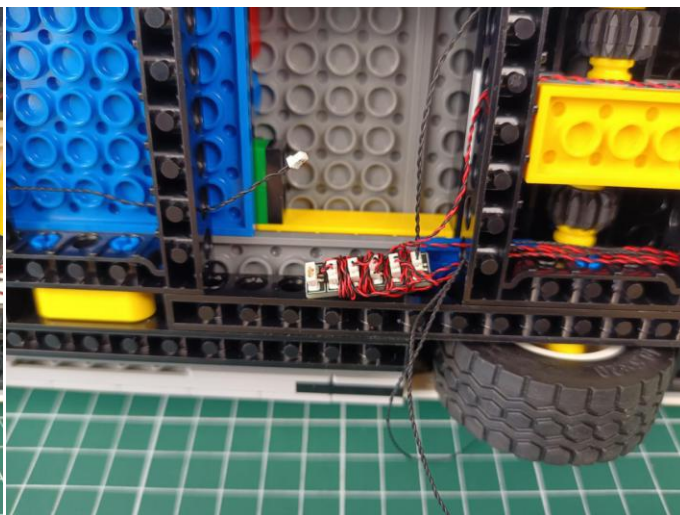
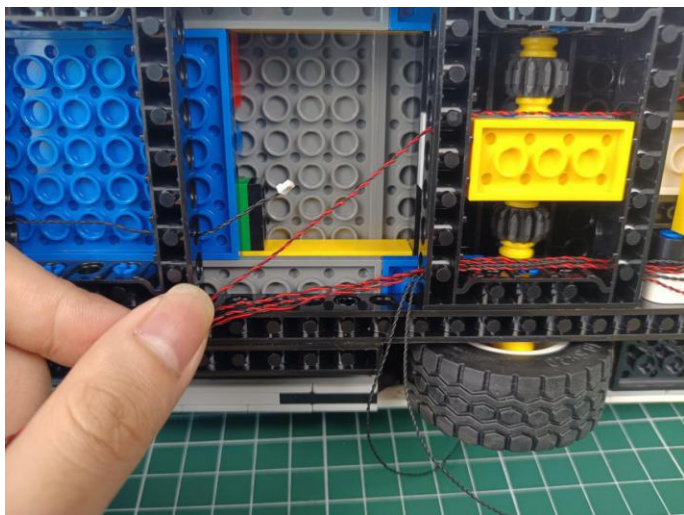


Take a 5cm connecting cable, a 6-port expansion board, assemble them as per below.

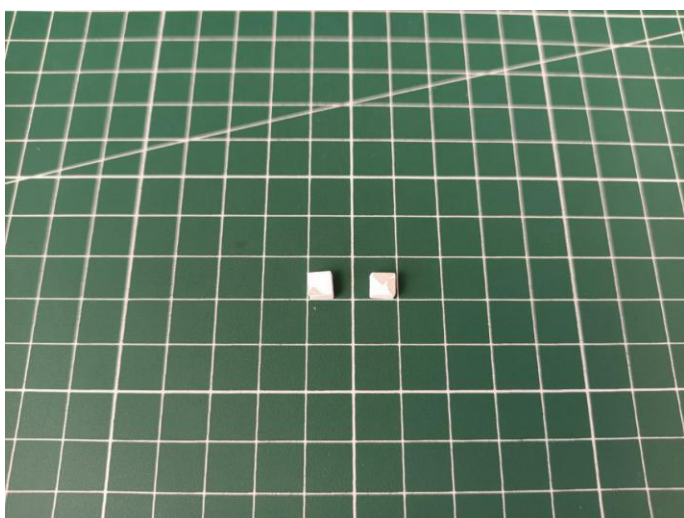


Take the 4 cables from the taillights, connect them to the expansion board, tuck excess cables around the expansion board.

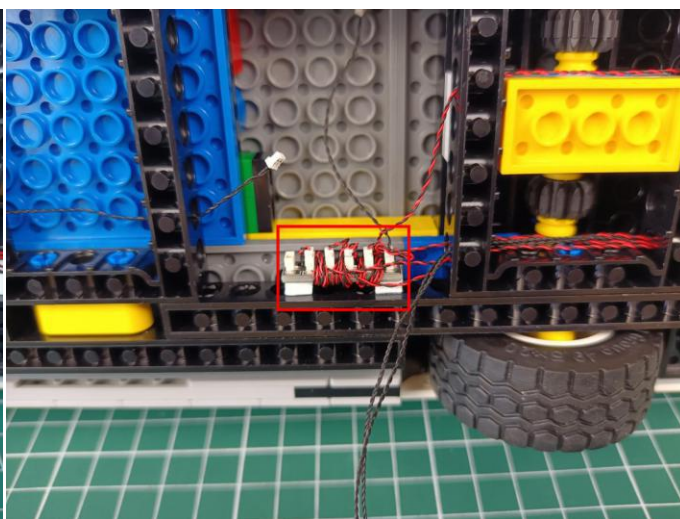
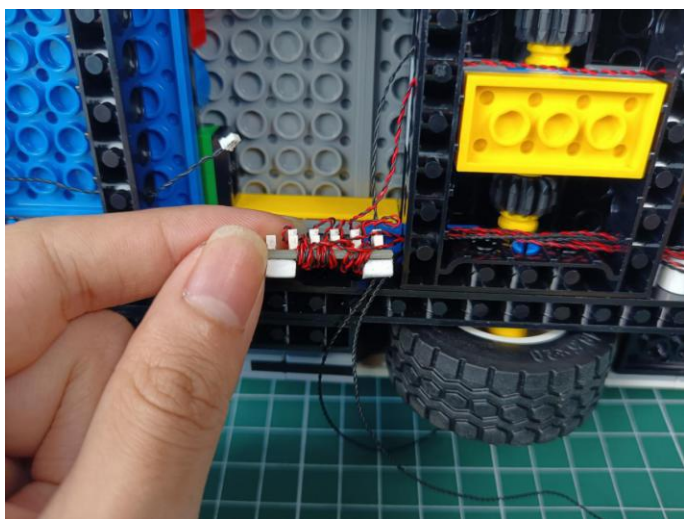




Take 2 adhesive squares.

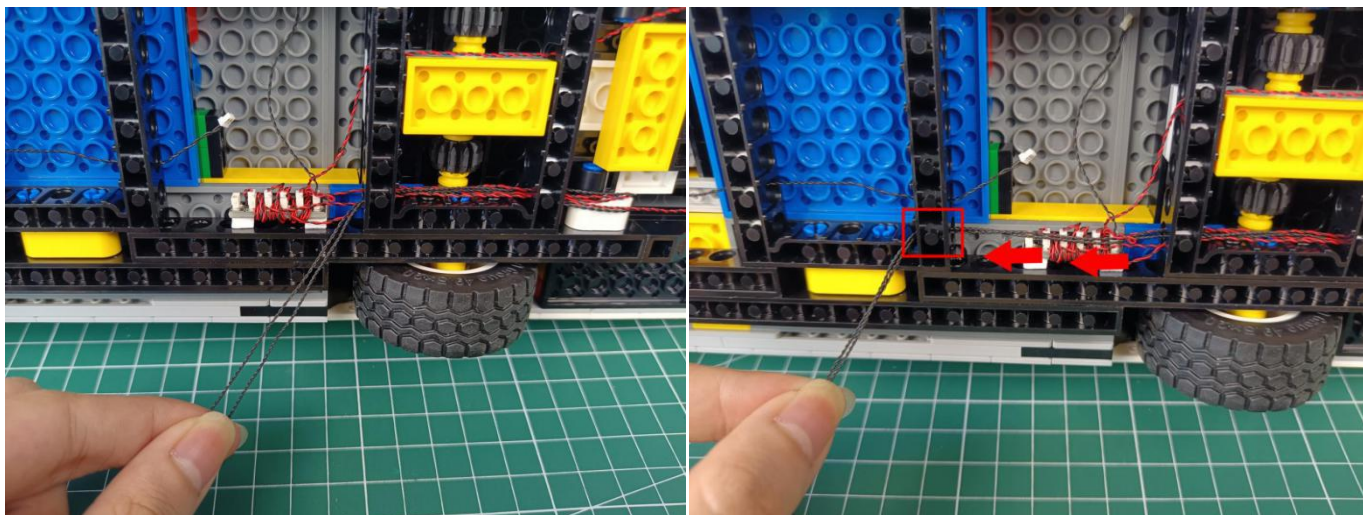


Stick them to the back of the expansion board, and stick the expansion board to the following place.

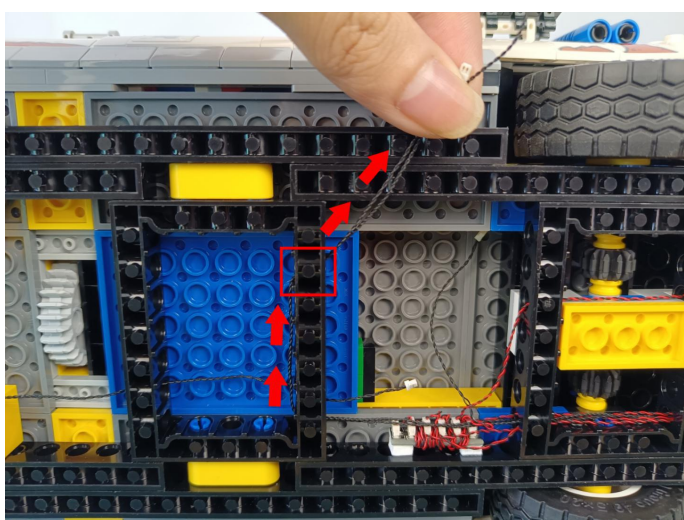


Thread the 2 cables through the following hole.

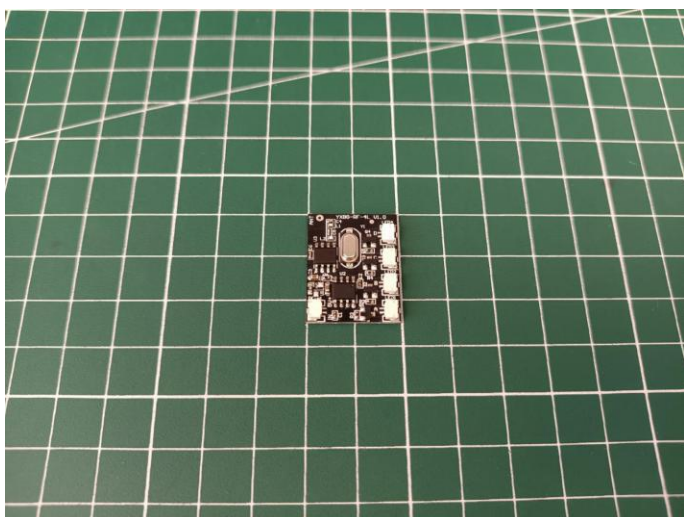




Continue to thread them through the following hole.

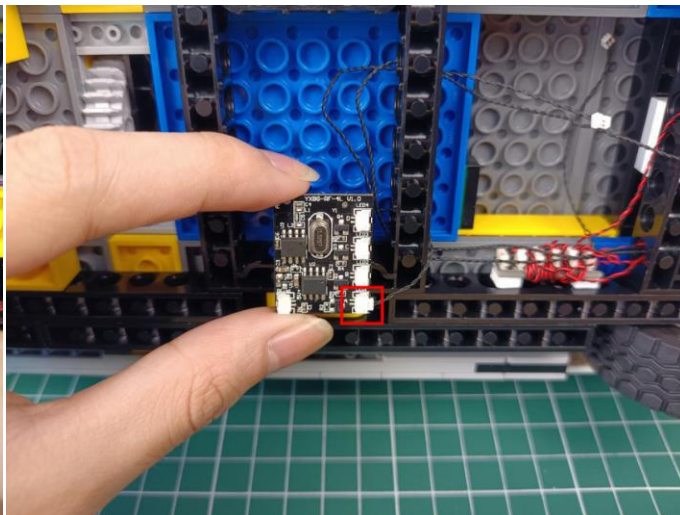
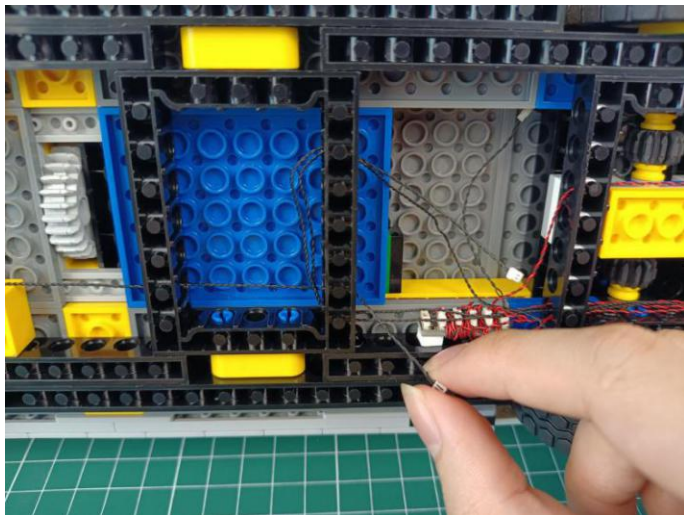


Take a Remote Control Switch Board.

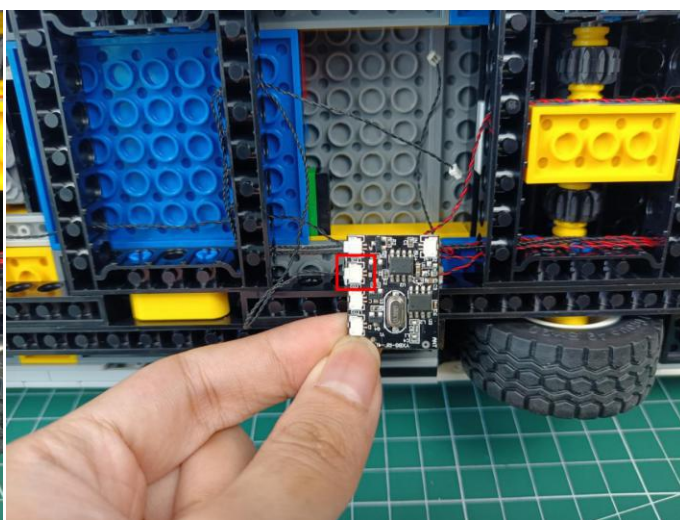
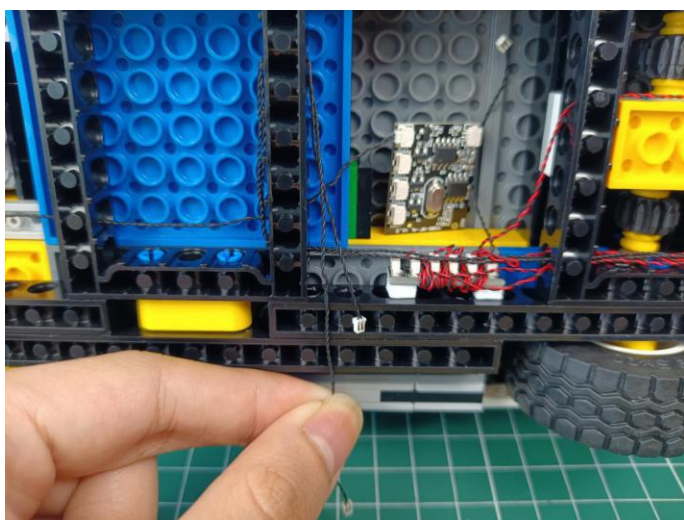


Connect the cable from the headlight to the A port.

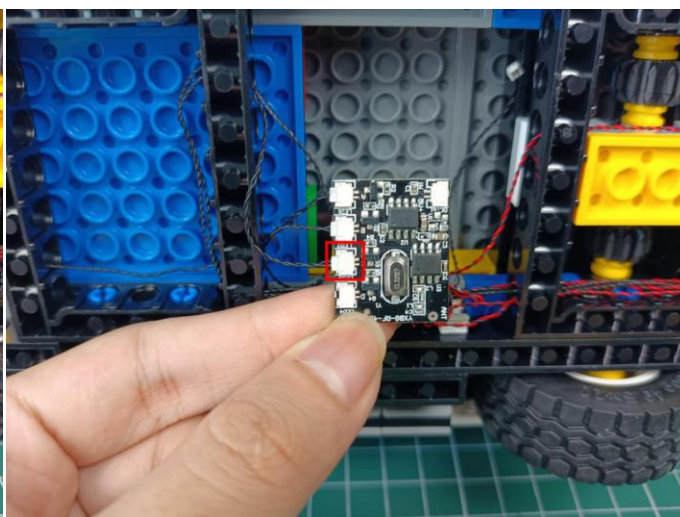
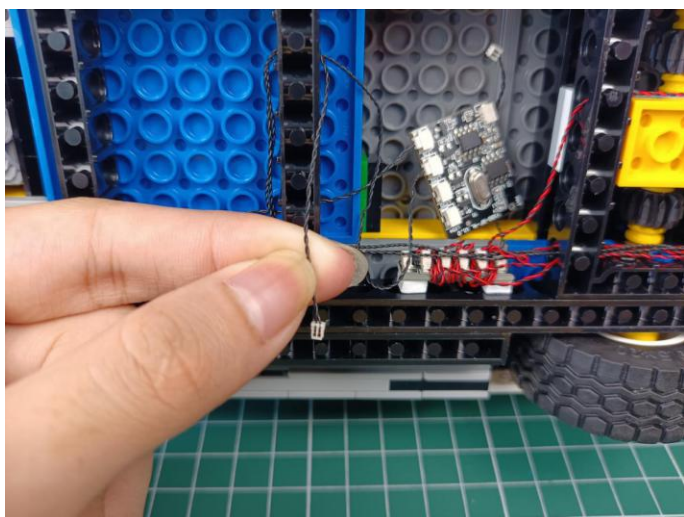




Connect the cable from the inside (the longer one) to the B port.

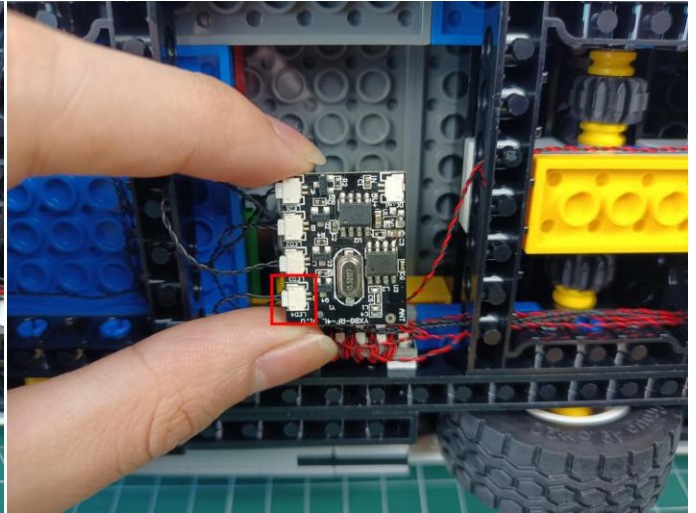
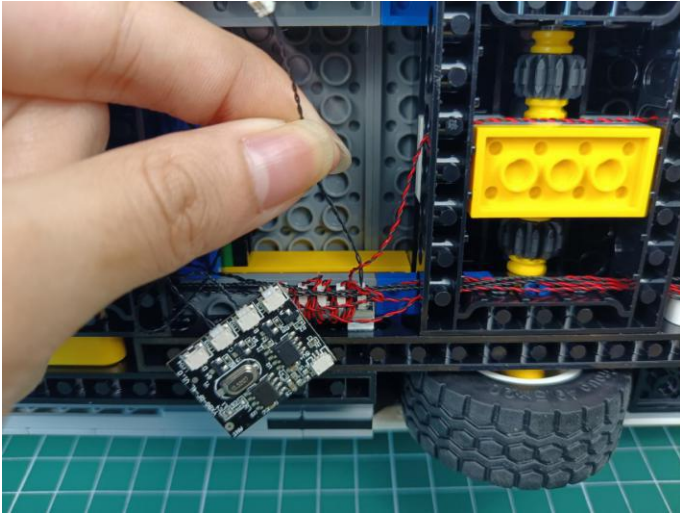


Connect the cable from the roof (the shorter one) to the C port.

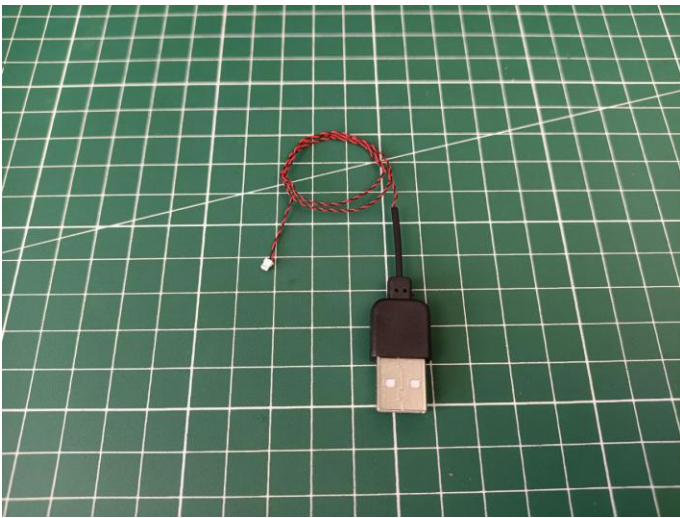


Connect the cable from the taillight to the D port.

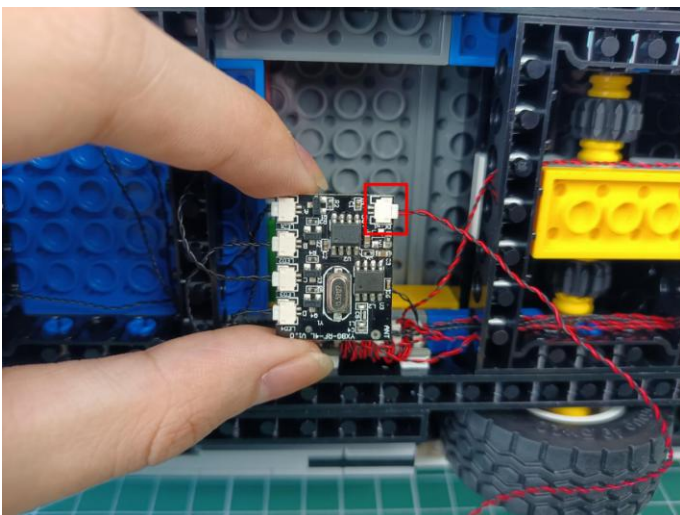




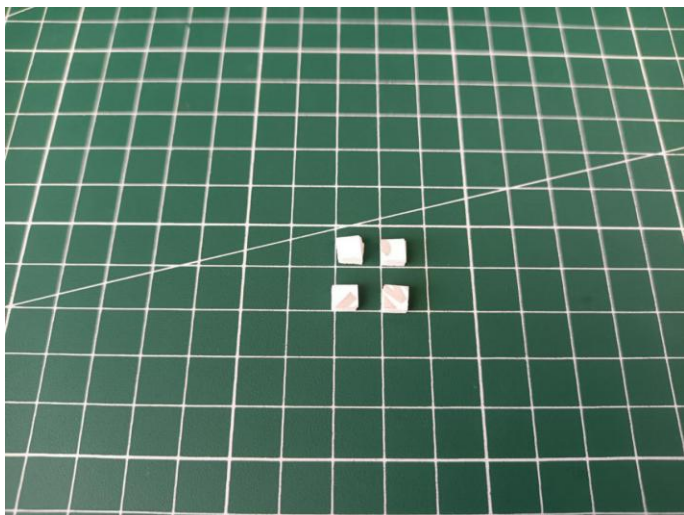
Take a USB cable.



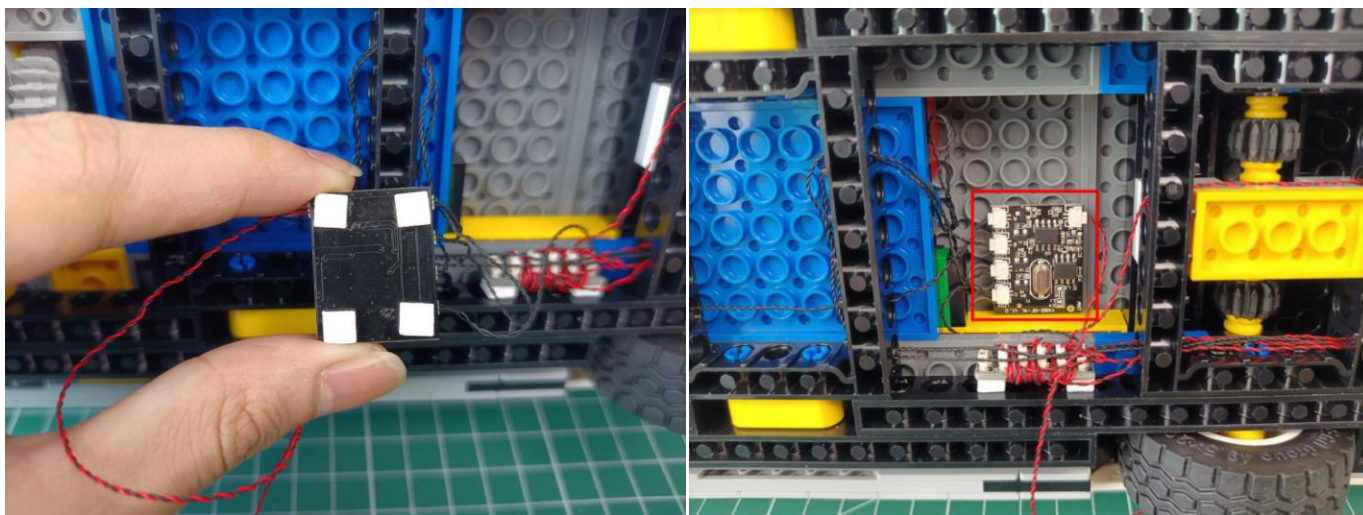
Connect the USB cable to the input port on the Remote Control Switch Board.



Take 4 adhesive squares.



Stick them to the back of the Remote Control Switch Board, and stick the Remote Control Switch Board to the following place.



This completes installation of this LED Lighting Kit. ENJOY! (A port: headlights; B port: lights inside ; C port: lights from the roof; D port: taillights.)





The above are ideas and instructions provided by our designers. Please move on:

- 1: Do you have any suggestions about the material and quality of our products?
- 2: Do you have any suggestions on the installation instructions and the degree of difficulty of the installation?
- 3: If you have better installation method and ideas, please contact us in time.