Lighting Kit

Thank you for choosing Vonado lighting products. We are committed to LEGO product study and lighting development, and 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 infinitely.
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:
- 4 x White Strip Lights
- 1 x Warm White Strip Light
- 5 x Red Strip Lights
- 2 x 15cm White Dot Lights
- 6 x 15cm Red Dot Lights
- 2 x 15cm Blue Dot Lights
- 1 x 5cm Connecting Cable
- 7 x 15cm Connecting Cables
- 3 x 30cm Connecting Cables
- 2 x 50cm Connecting Cables
- 1 x AA Battery Pack
- 1 x 6-port Expansion Board
- 1 x 8-port Expansion Board
- 1 x 12-port Expansion Board
- 1 x Remote Control Switch Board

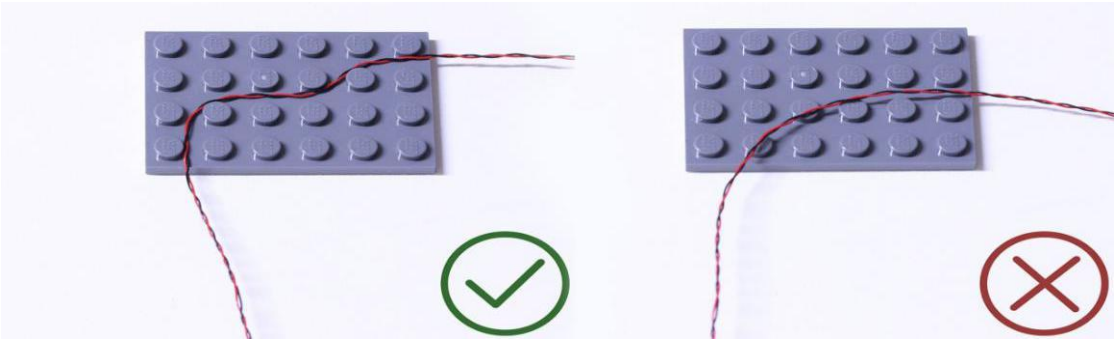
Extra pieces



（product display）

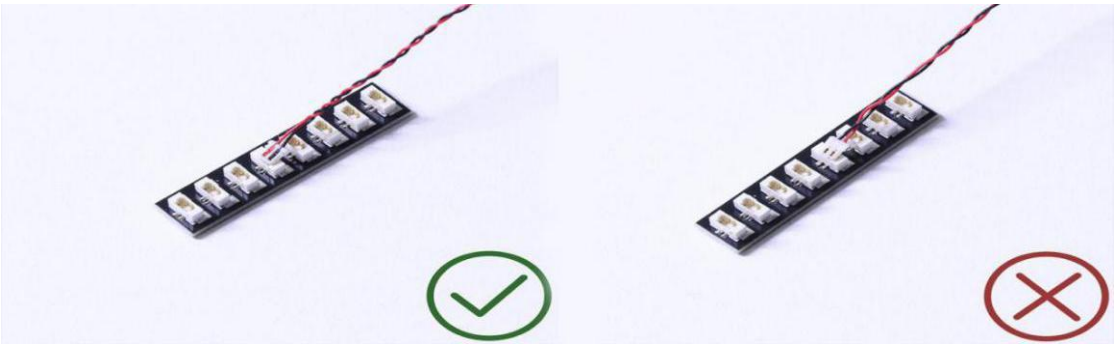
Note:

Place wires on the surface or under the building blocks.
The wire can be place between the building blocks or under the block, but they should be placed between the studs correctly.

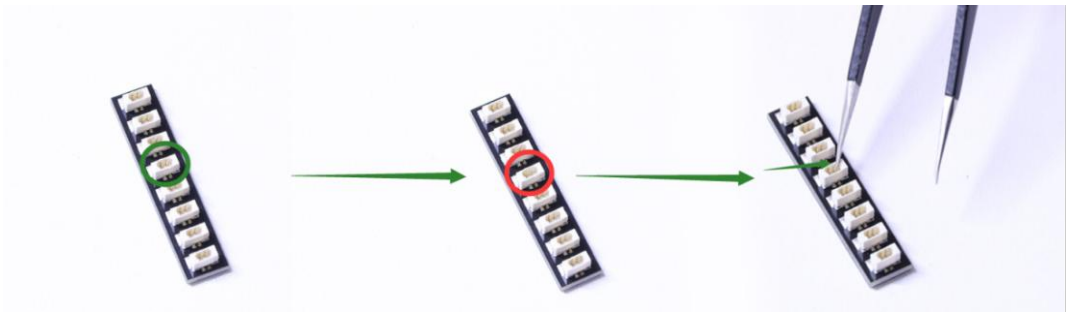


Insert the connectors to the ports.

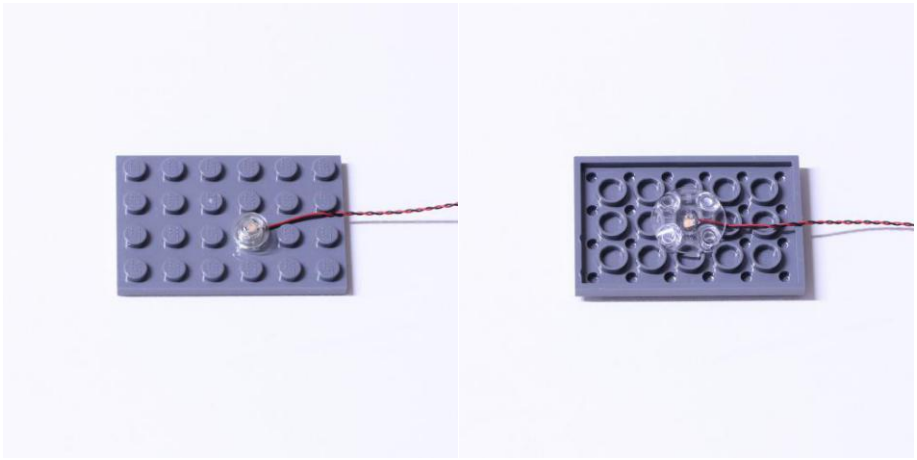
Be careful when you are operating, there's only one correct way to insert, make sure the expansion board is upward, find the soldered "=" sign on the left of the port. When you are inserting, the side which the wires can be seen should be faced to the "=" sign and if you feel hard to insert, please stop, 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.

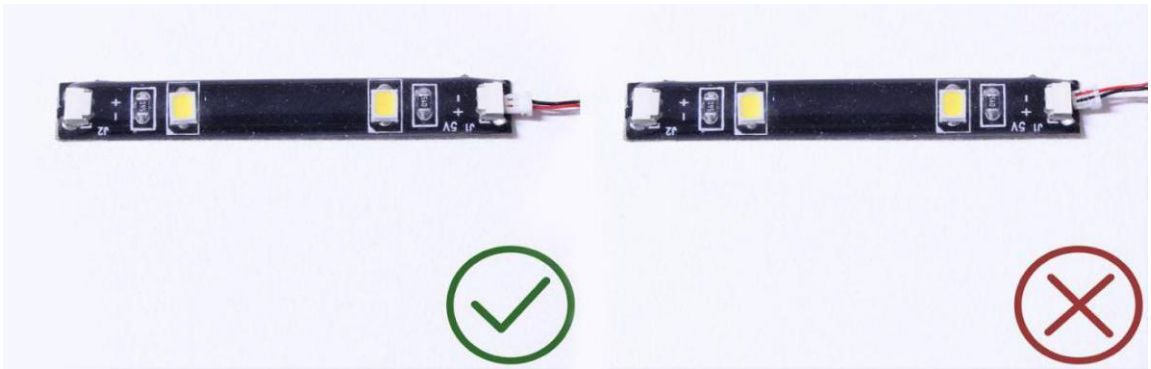


When installing dot lights, make sure they are correctly placed (Yellow LED package is exposed). You can put they either on the top of the studs or between studs.



Connecting cable connectors to Strip Lights

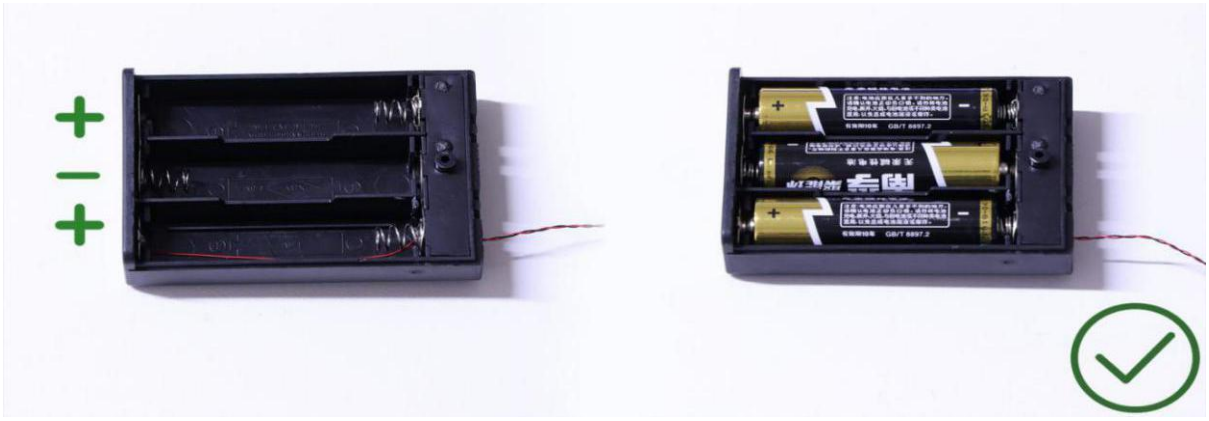
Take extra care when inserting connectors to ports on the Strip Lights. Connectors can be inserted only one way. With the Strip Light facing up, ensure the side of the connector with the wires exposed is facing down. If a plug won't fit easily into a port connector, don't force it. Doing so will damage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



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







OK, Let's Begin!

Instructions for installing this kit：

Lamborghini　Remote Controller Version lighting kit, 14 bags in total，13 bags with labels，1 bag without label，as per below:

Power supply：AAA Flat Battery Pack（self-contained battery）,or you can take your own USB cable, and supply power through the power bank or mobile phone charger.



Firstly, take the battery pack (with batteries installed), connect it to the expansion board to verify all the dot lights and strip lights.



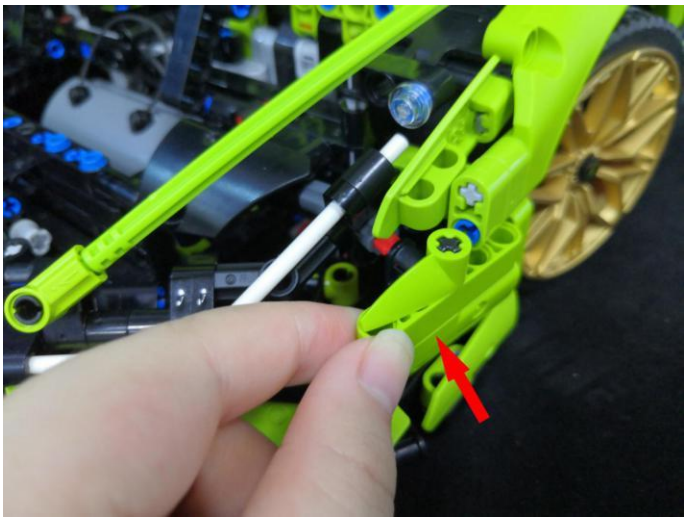
1.After the verification, disconnect the lights, put them back to the package.（Note: put the lights back to the bag after verification of lights in the same bag is done, then, continue to verify the lights in another bag）.



2.Lift the front roof as per below.

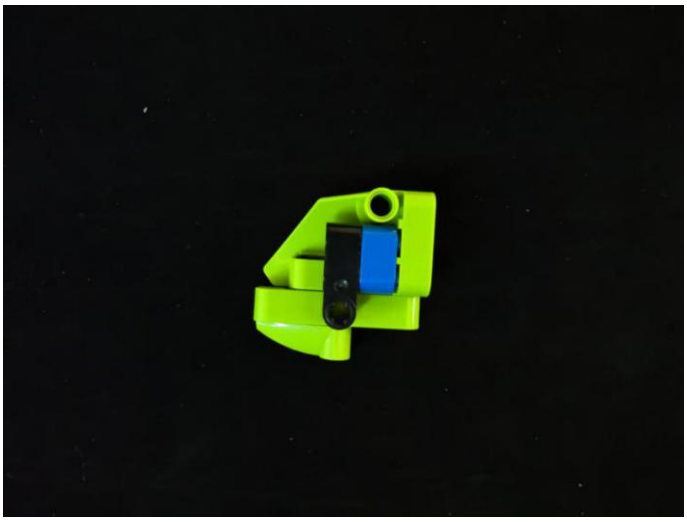


3.Disconnect the following piece.

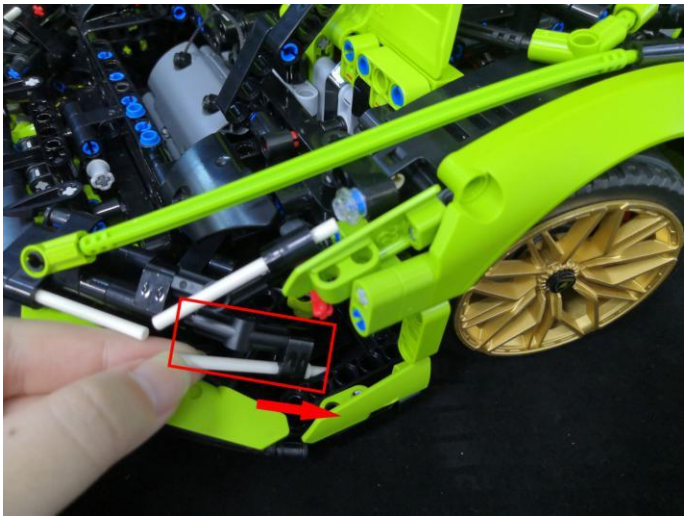


4.Take the piece as per below.

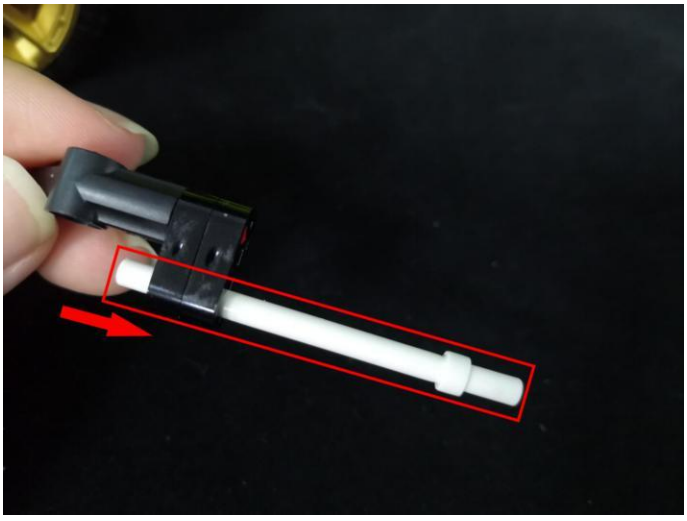




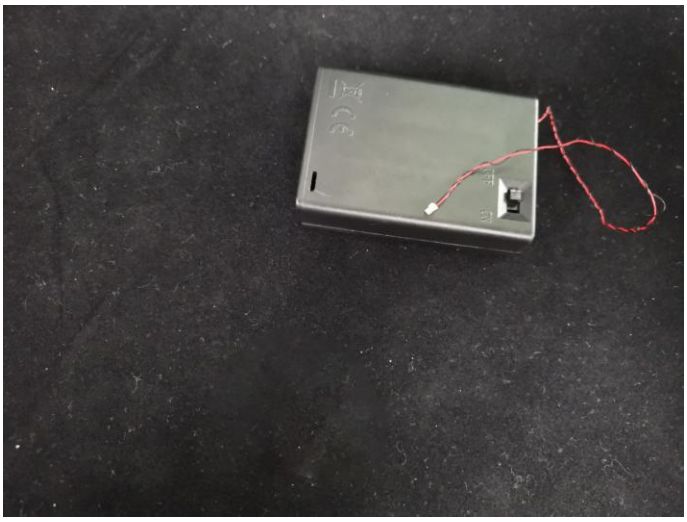
5.Disconnect the following piece.

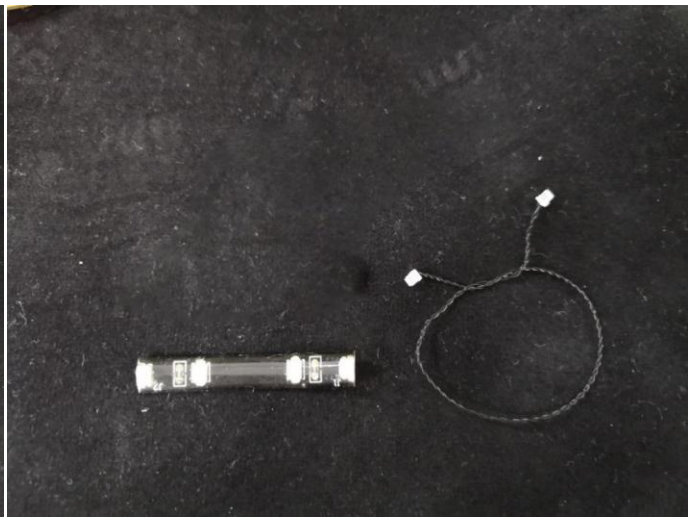


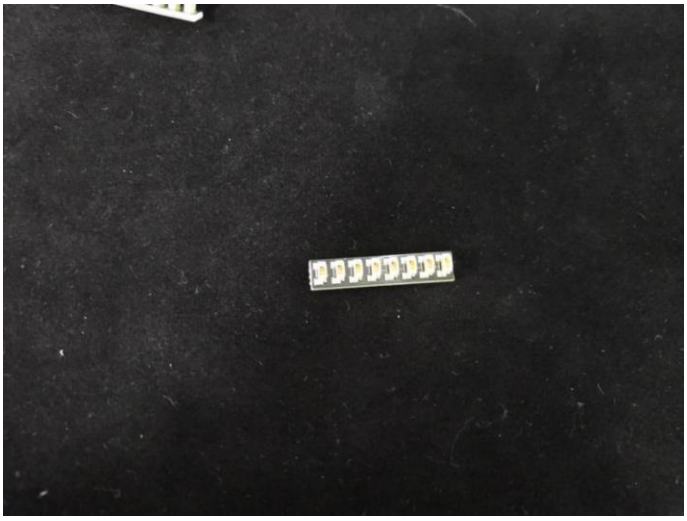
6.Pull the white pole out as per below.



7.Take a white strip light, a 15cm connecting cable, an 8-port expansion board, a battery pack.





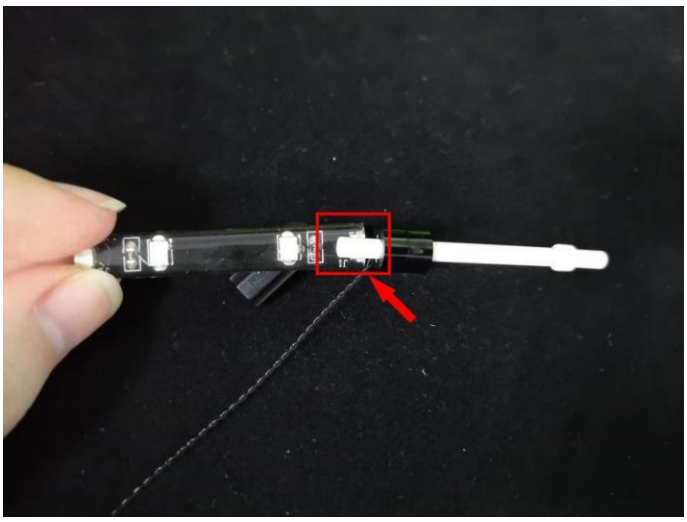


8.Connect the connecting cable to the strip light, connect the other end to the expansion board, turn the power on to test if the light is working.



9.（After the verification, disconnect the cable, put the battery pack and the expansion board aside.）

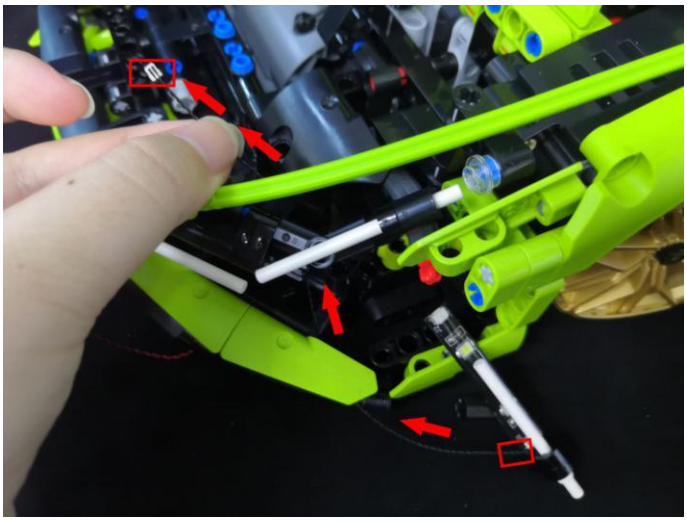
Stick the strip light to the following place.



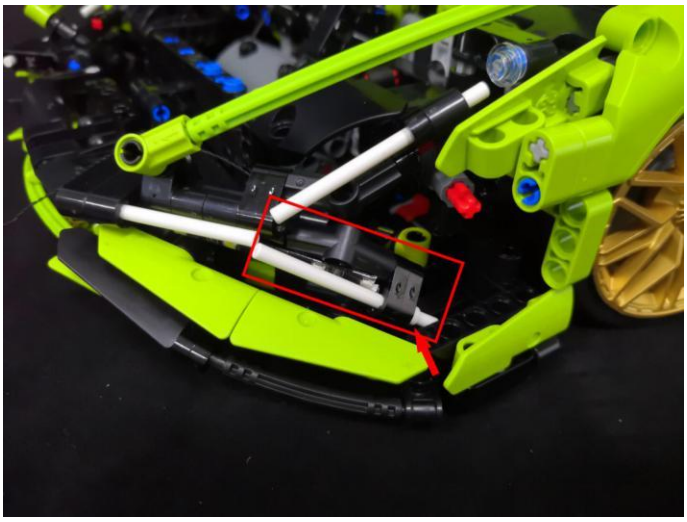
10.Reconnect the white pole, pull the cable down.



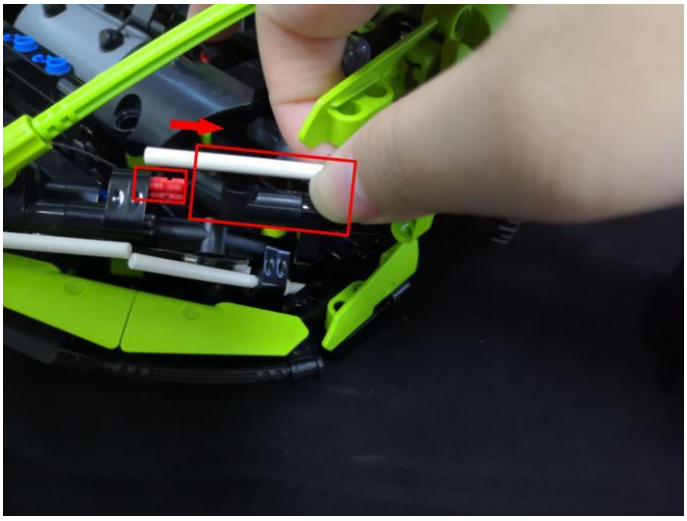
11.Thread the cable through the following space.



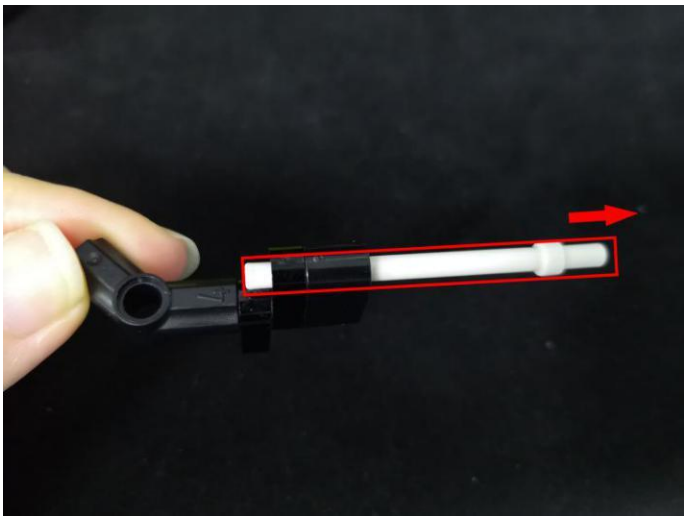
12.Reconnect the following piece.



13.Remove the following piece marked in red.



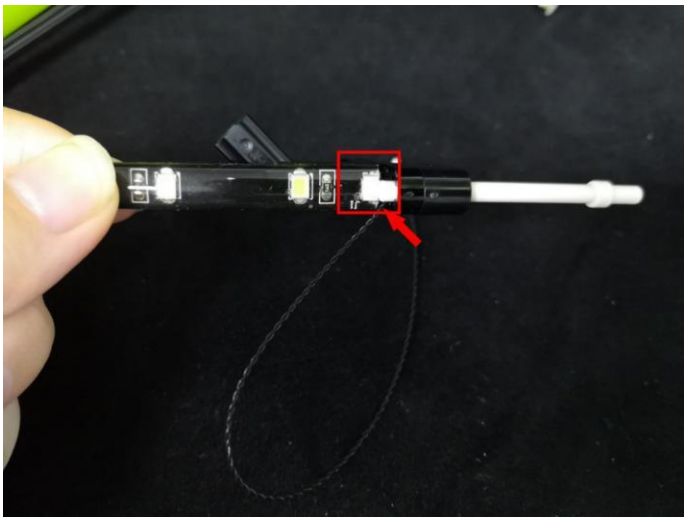
14.Pull the following white pole.



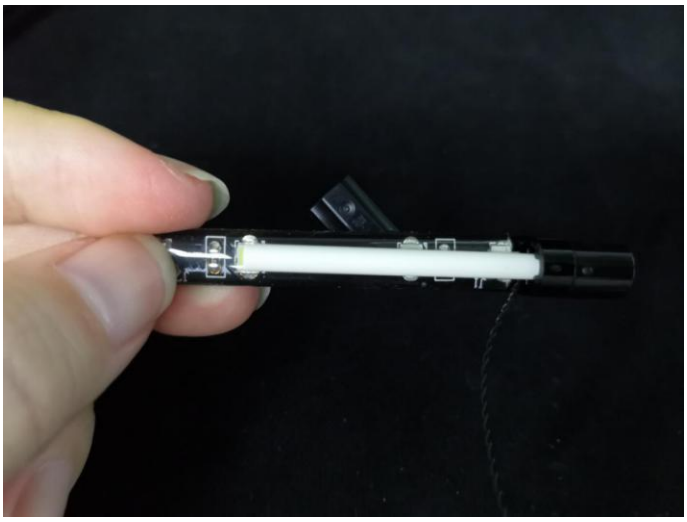
15.Take a white strip light, a 15cm connecting cable, connect the connecting cable to the strip light, connect the other end to the expansion board (which is connected to the battery pack), turn the power on to test the light.



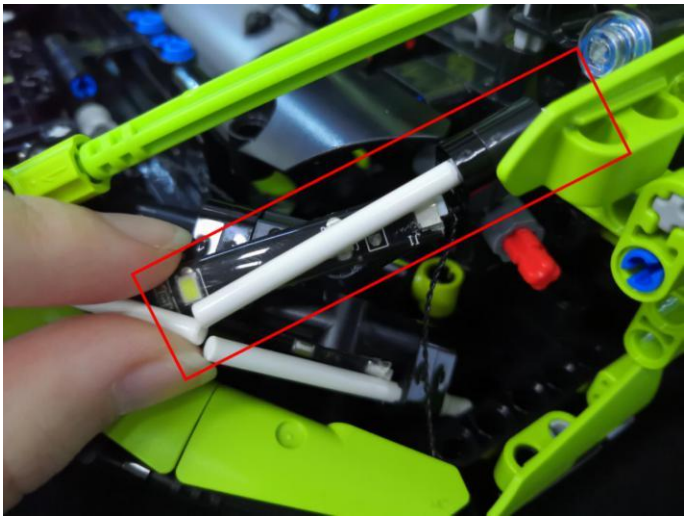
16.Stick the strip light to the following place.



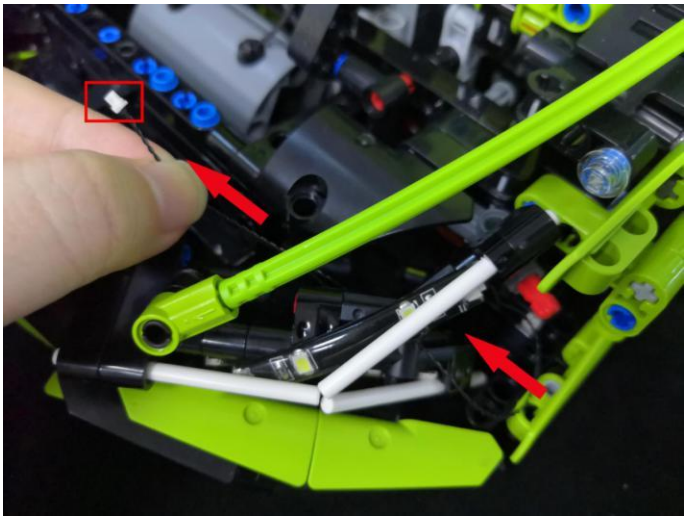
17.Reconnect the white pole.



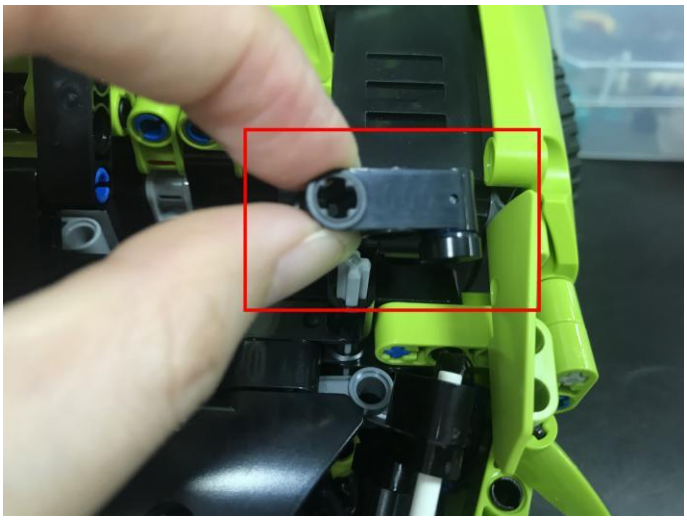
18.Reconnect the following piece.



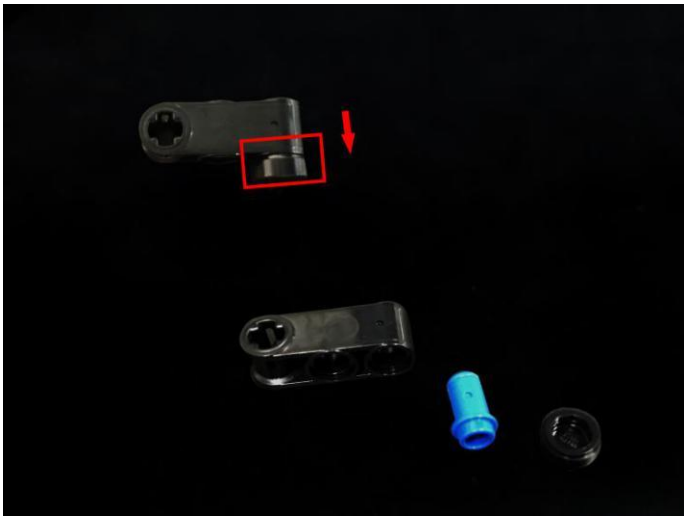
19.Thread the cable through the following space to the middle of the head.



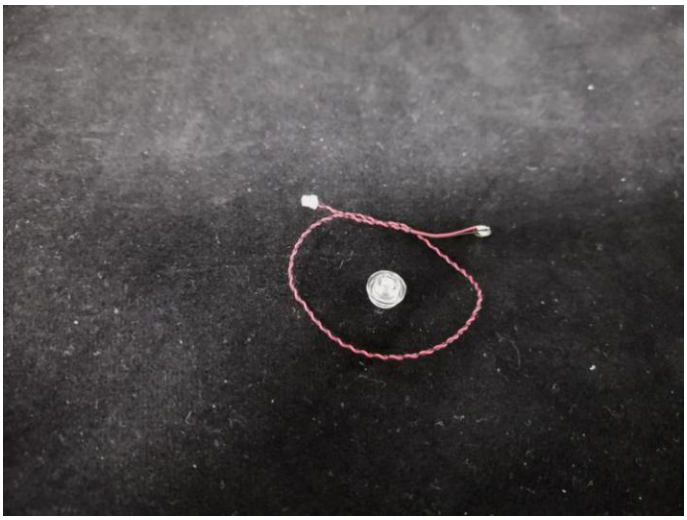
20.Disconnect the following piece.



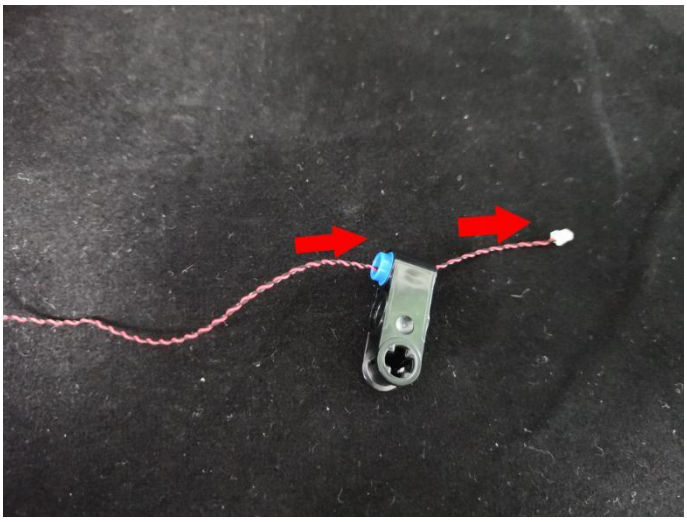
21.Disconnect the following black 1x1 round plate.



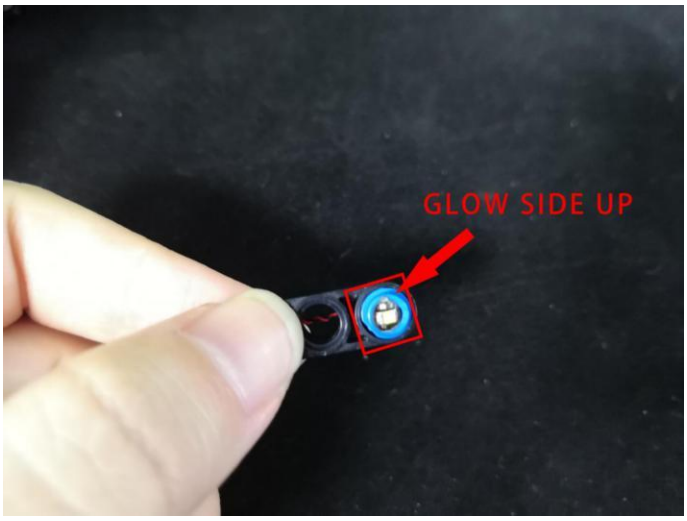
22.Take a white 15cm dot light, a trans 1x1 round plate.



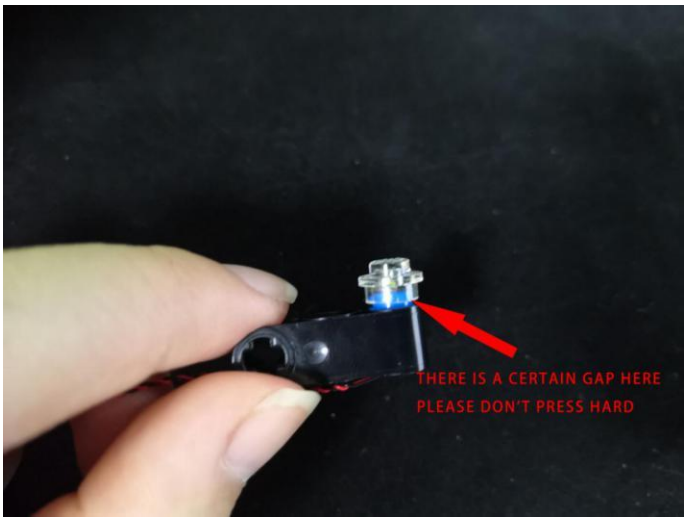
23.Thread the connector through the blue piece as per below.



24.Pull the cable out till the light is placed over the blue piece, with lighting part facing outside.

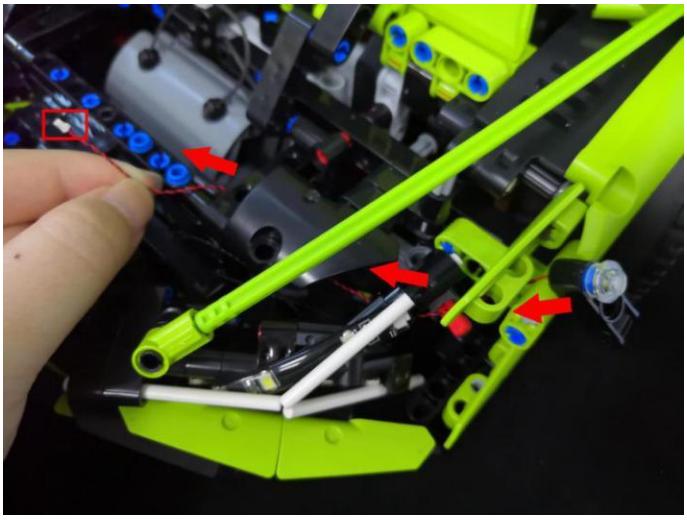


25.Secure the light with the 1x1 trans round plate.

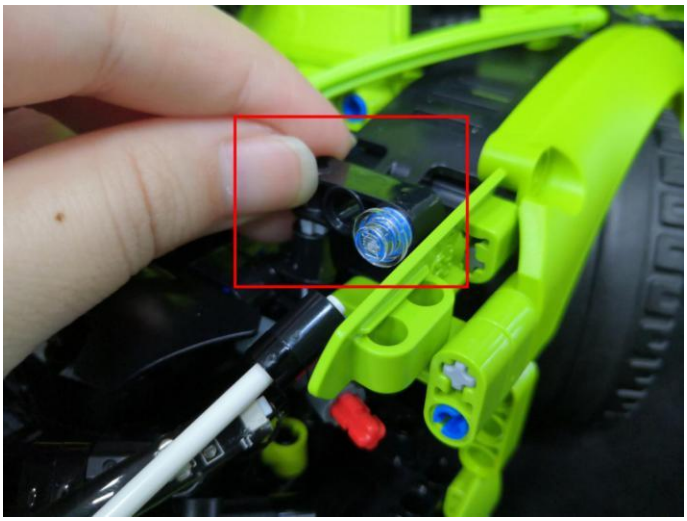


26.（Note: because of the light, there’s space between pieces, do not press the pieces too hard.）

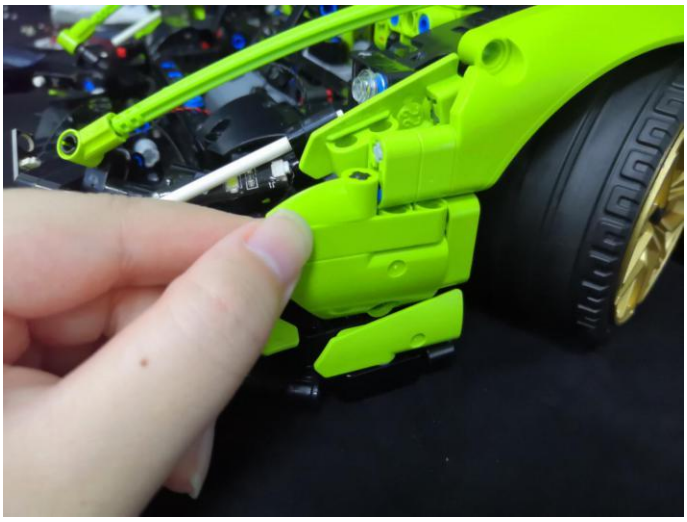
Thread the cable through the following piece to the middle of the head.



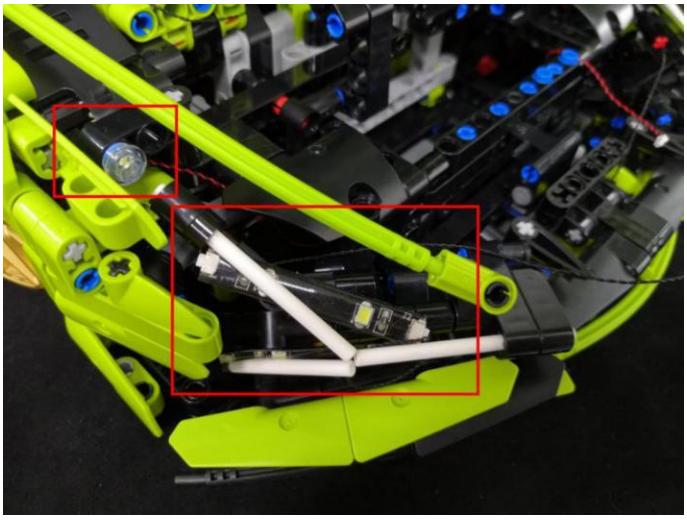
27.Reconnect the headlight.



28.Continue to reconnect the following piece.



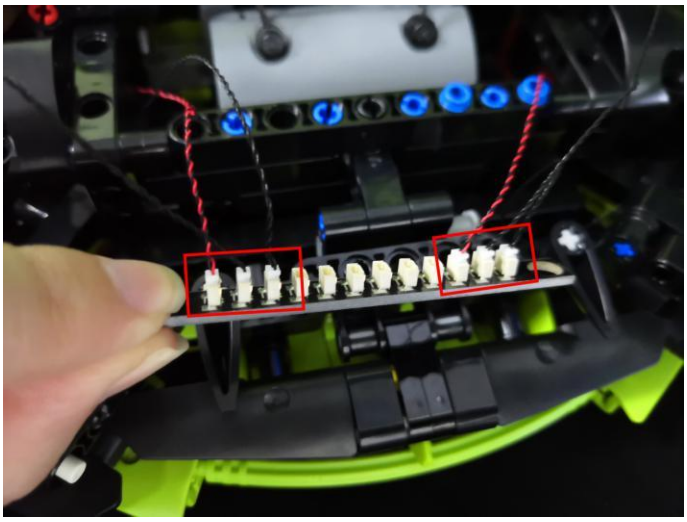
29.Take 2 white strip lights, a 15cm connecting cable, a 5cm connecting cable, a white dot light, a trans 1x1 round plate, repeat the previous steps to install the headlight at the other side.



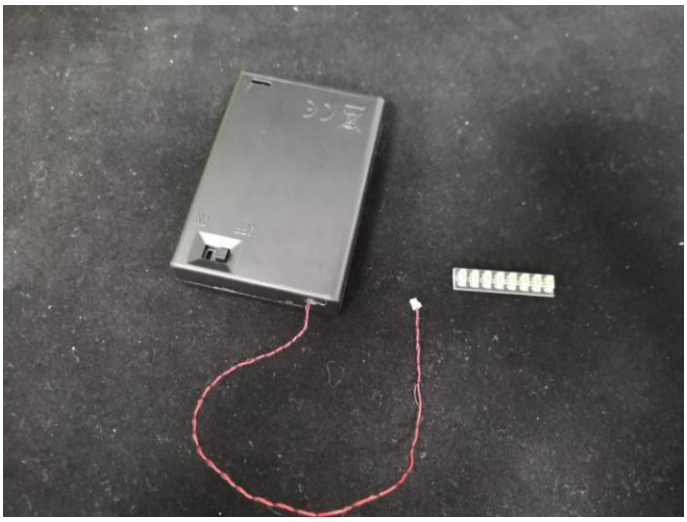
30.Take a 12-port expansion board.



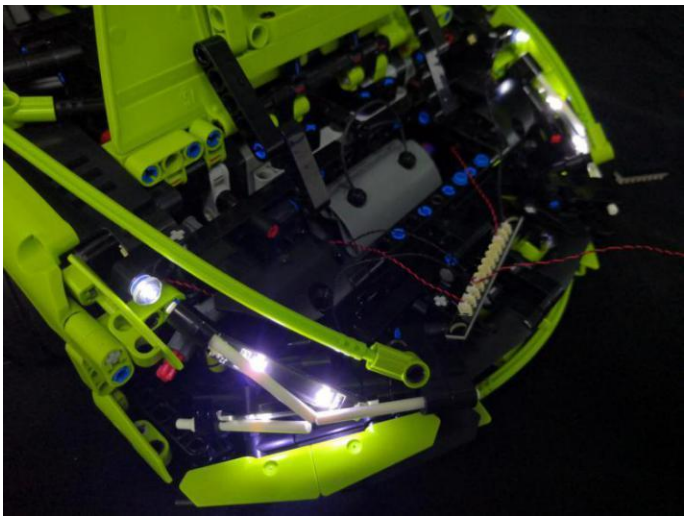
31.Connect all the headlights to it.



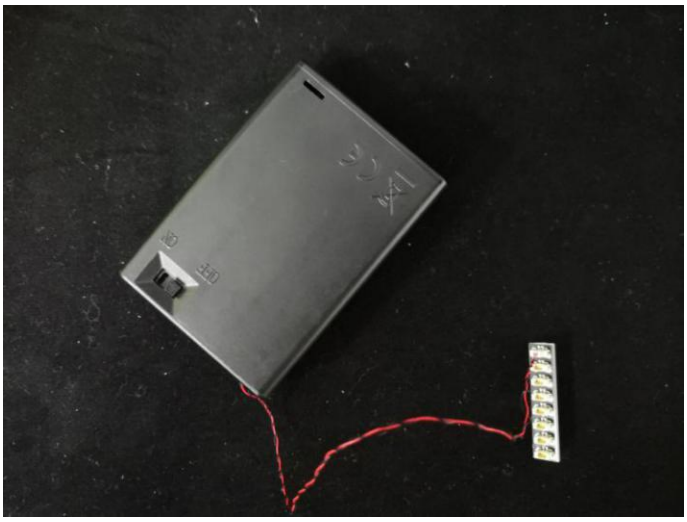
32.Disconnect the battery pack cable from the 8-port expansion board.



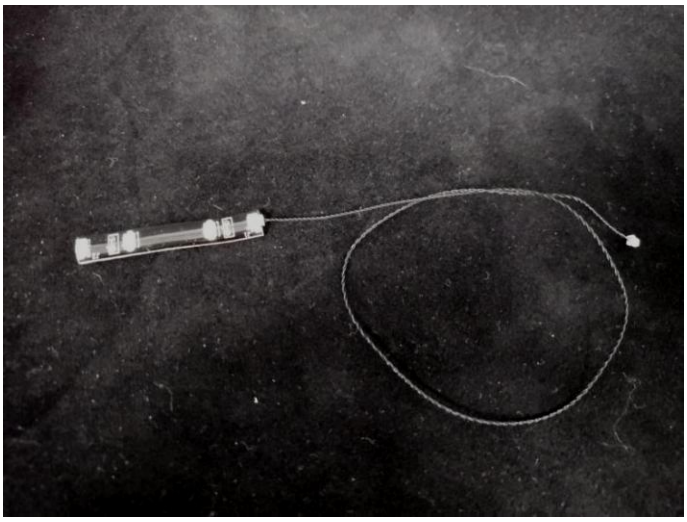
33.Connect the battery pack to the 12-port expansion board, turn the power on to test the lights.



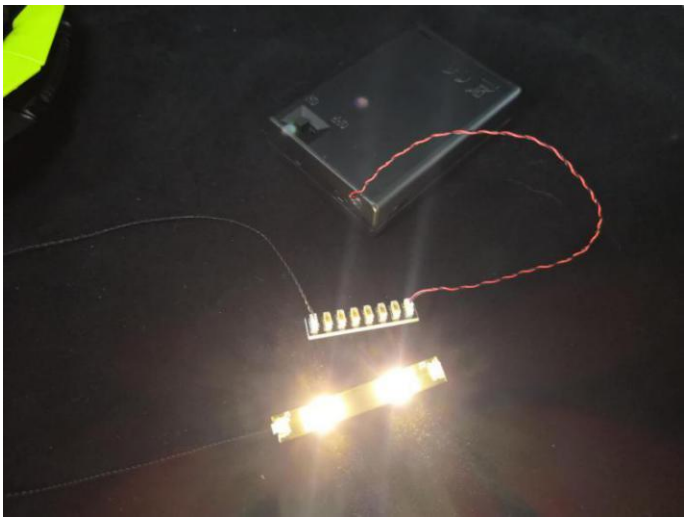
34.After the test, turn the power off, connect the battery pack to the 8-port expansion board.



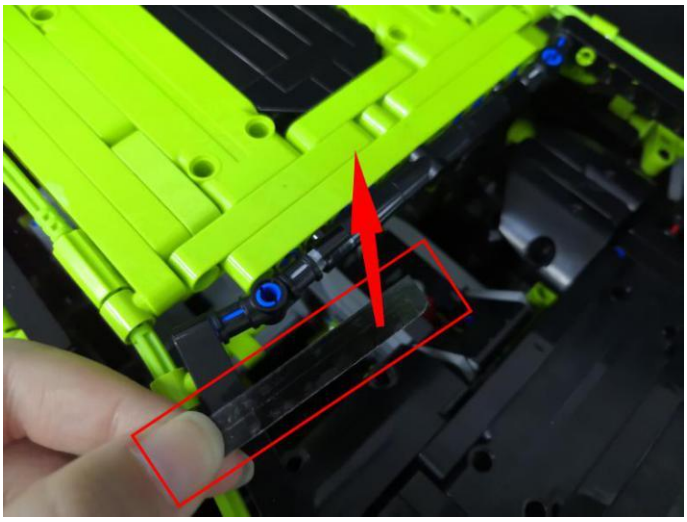
35.Take a warm white strip light, a 30cm connecting cable, connect the connecting cable to the strip light.



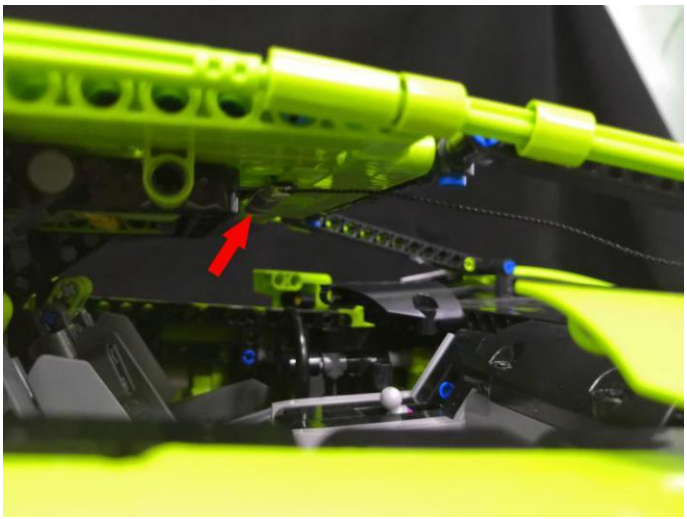
36.Connect the strip light to the 8-port expansion board, turn the power on to test the strip light.



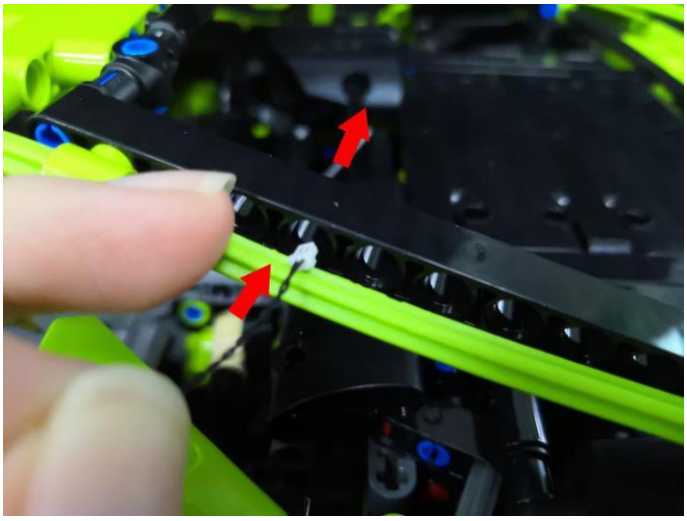
37.Stick the strip light underneath the driver's room.



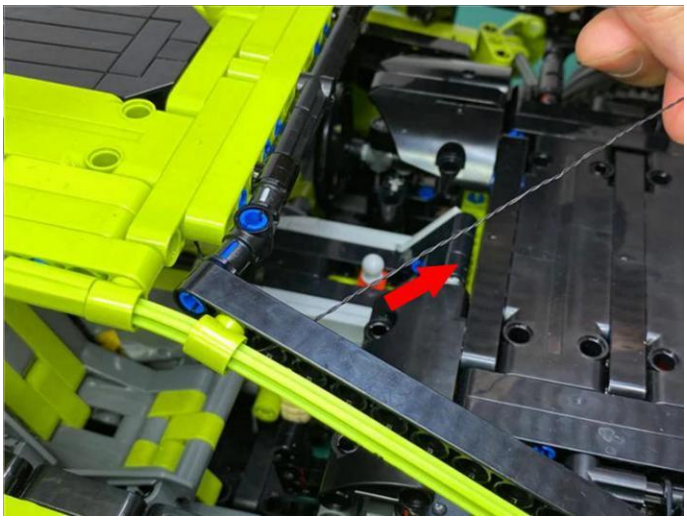
38.Stick it to the following place at the middle of the driver’s room.



39.Follow the arrows, thread the cable through the black hole.



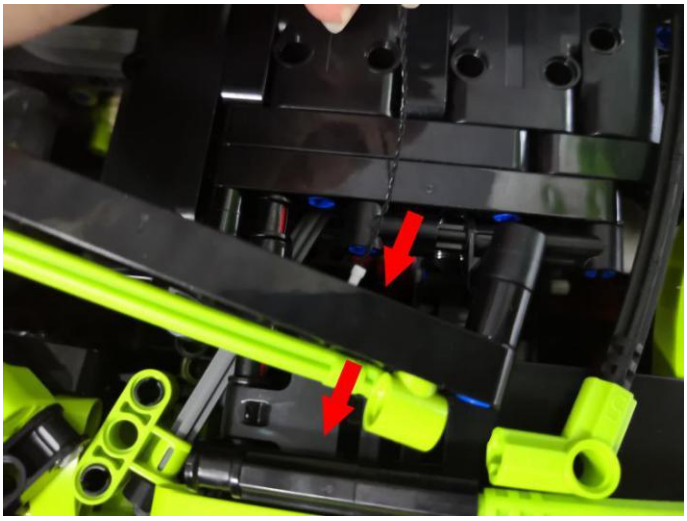
40.Tighten up the cable.



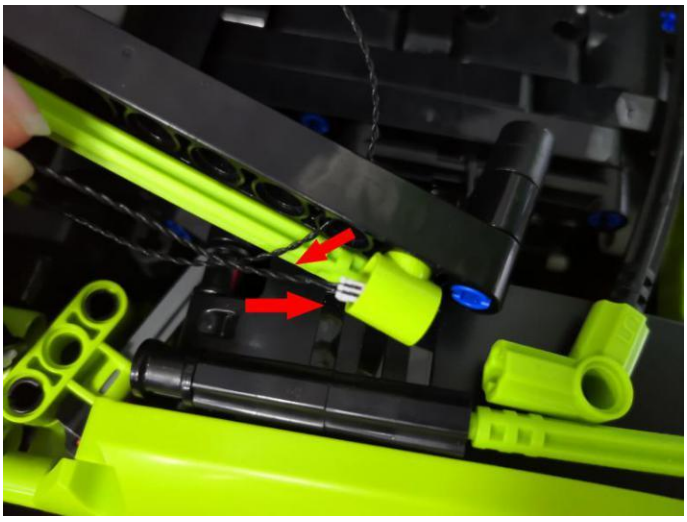
41.Pull the following green piece out.



42.Thread the cable through the following black hole.



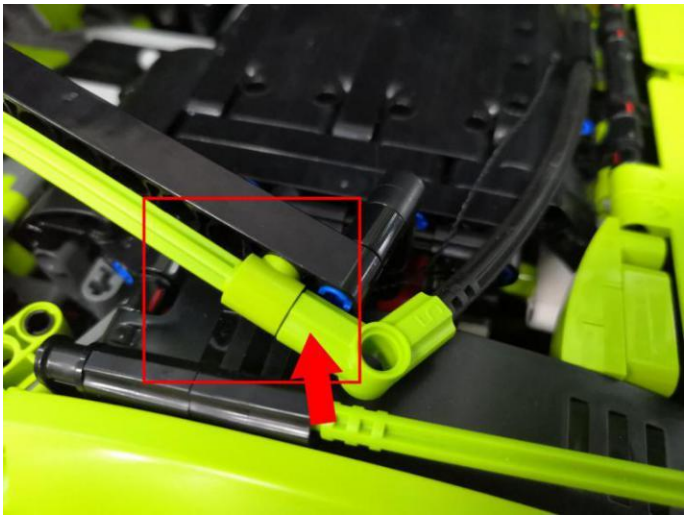
43.Continue to thread it through the following green piece.



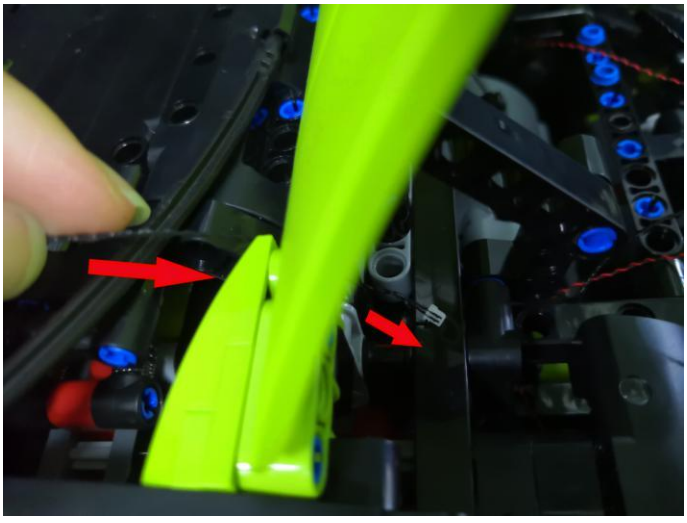
44.Tighten up the cable, reconnect the green piece to secure the cable as per below.



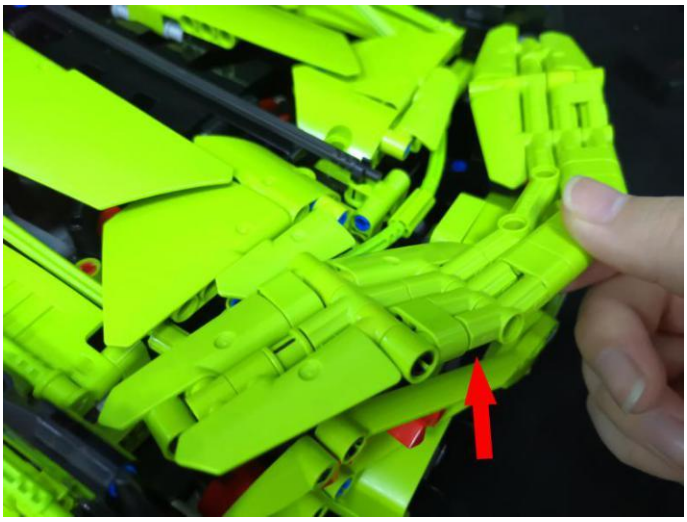
45.Reconnect the following green piece.



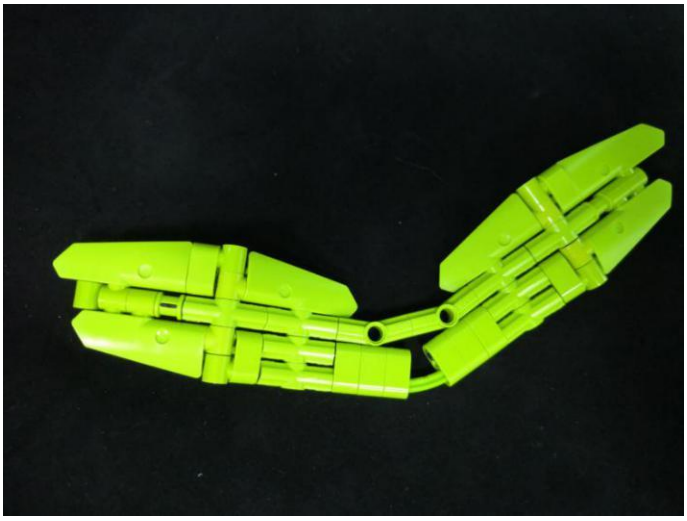
46.Thread the cable through the following space to the middle of the head.



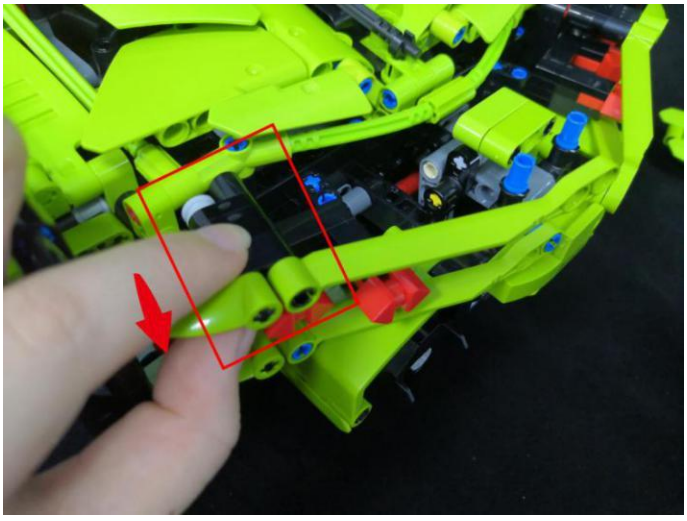
47.Turn to the back of the car.



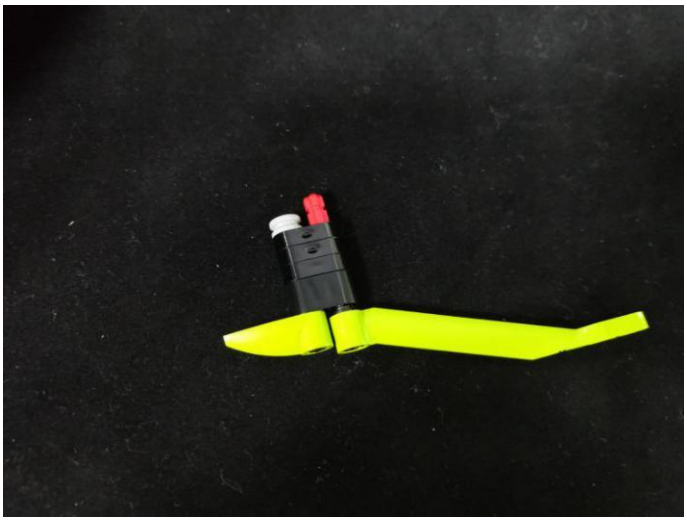
48.Disconnect the spoiler as per below.



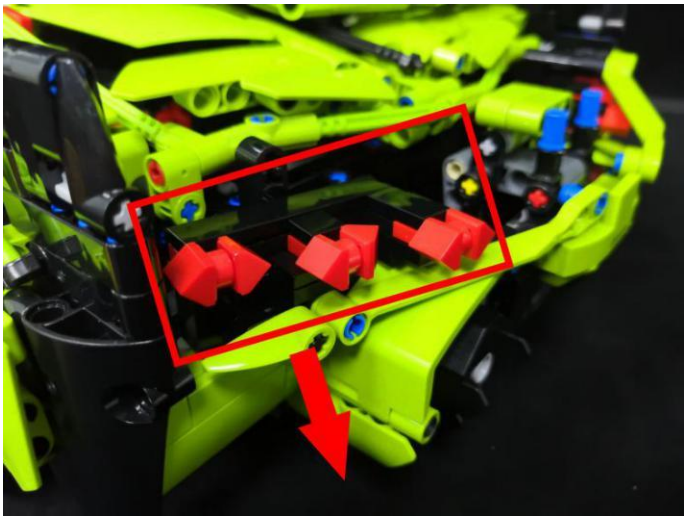
49.Follow the arrow, continue to remove the following pieces.



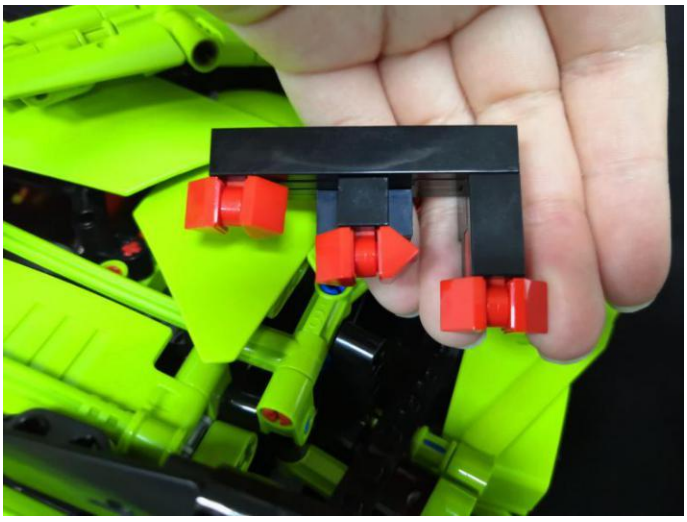
50.Remove the following piece.



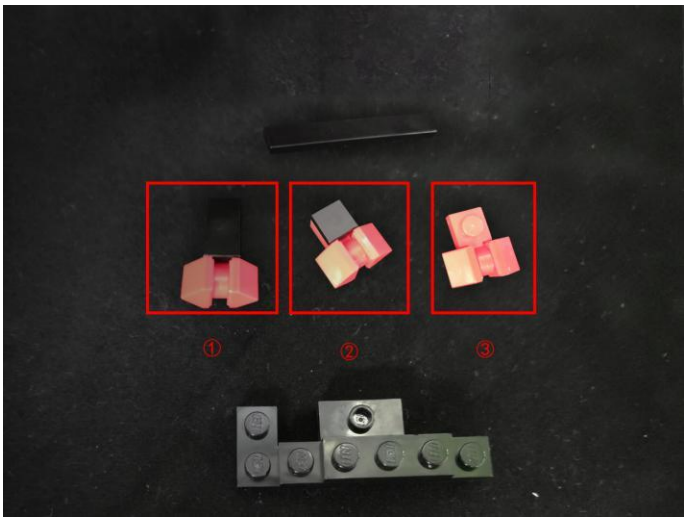
51.Move onto removing the 3 red taillights as per below.



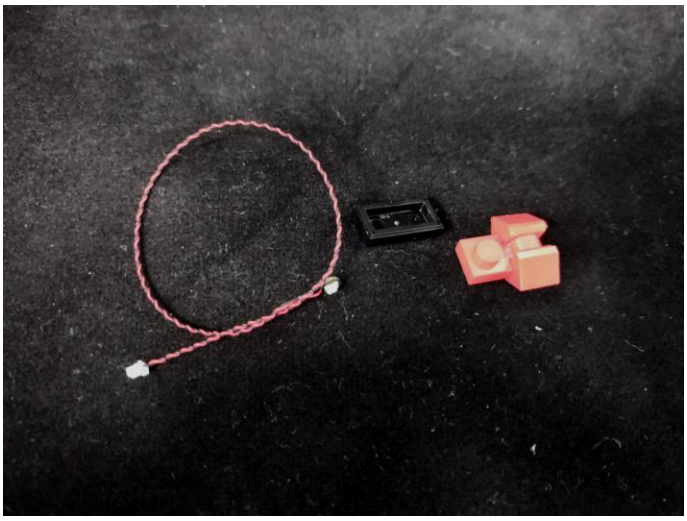
52.Disconnect the whole piece as per below.



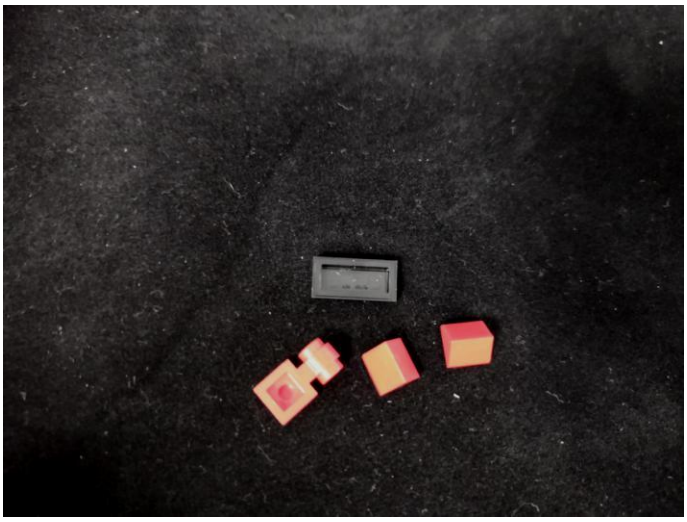
53.Disassemble it as per below.



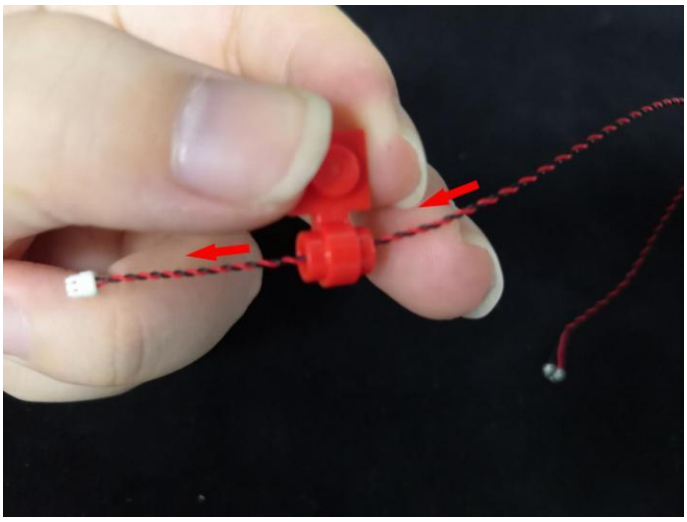
54.Take the 1x2 black plate, disassemble it as per below. Take a 15cm red dot light.



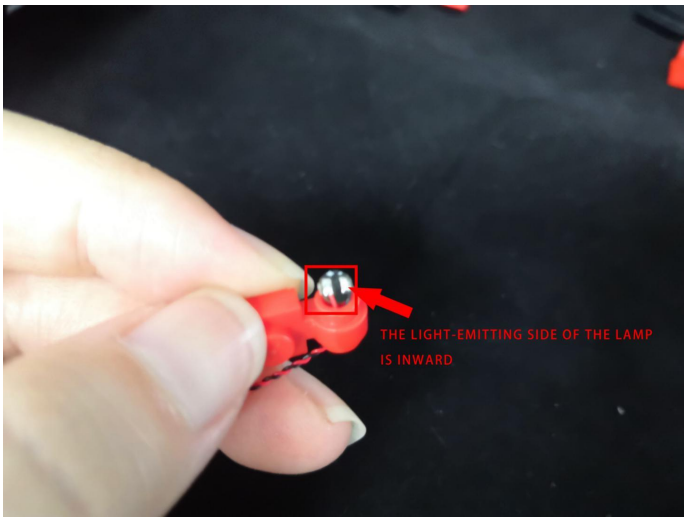
55.Disconnect the red triangle pieces as per below.



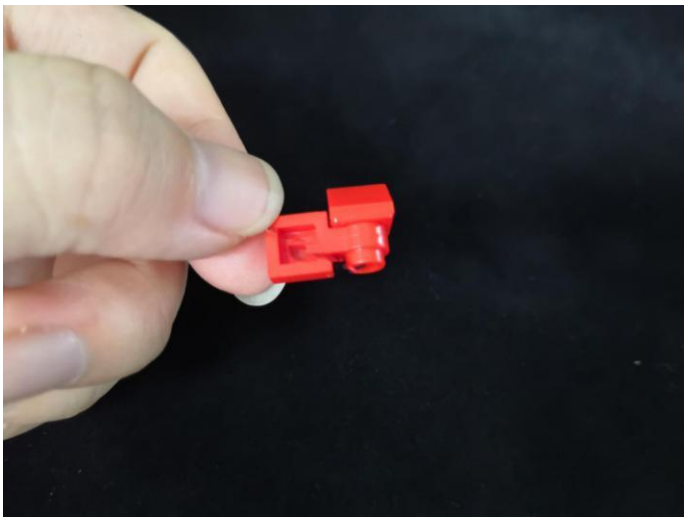
56.Thread the light through the red piece (with the stud facing up, thread the cable from left to right).



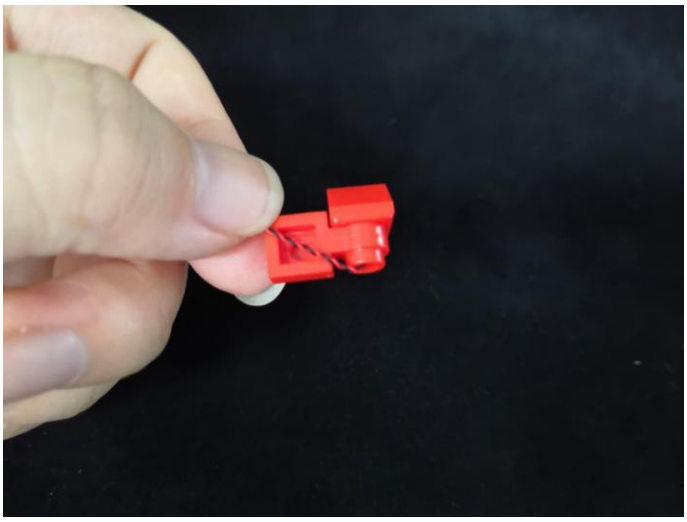
57.Pull the cable out till the light is stuck at the hole, and the lighting part is facing inside.



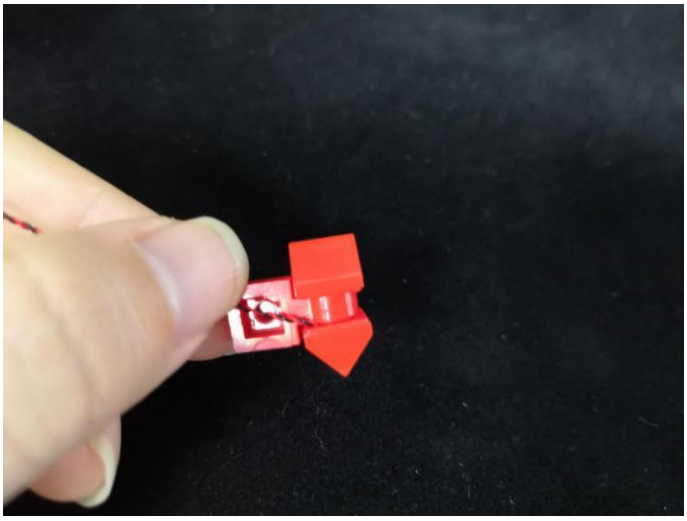
58.Reconnect the red triangle piece to secure the light.



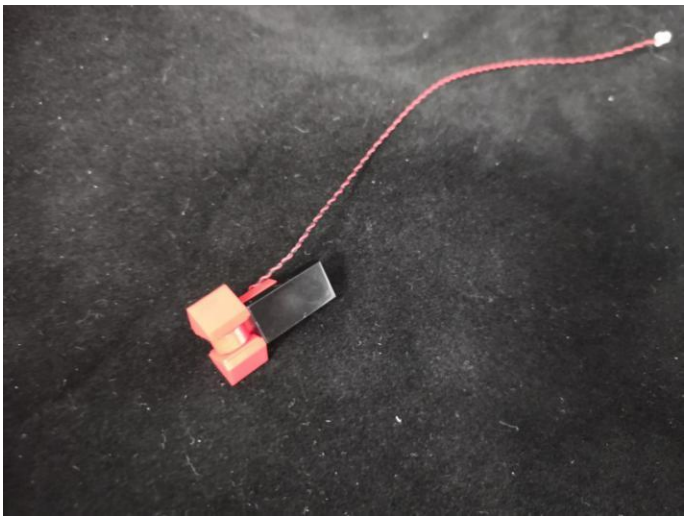
59.Tighten up the cable as per below.



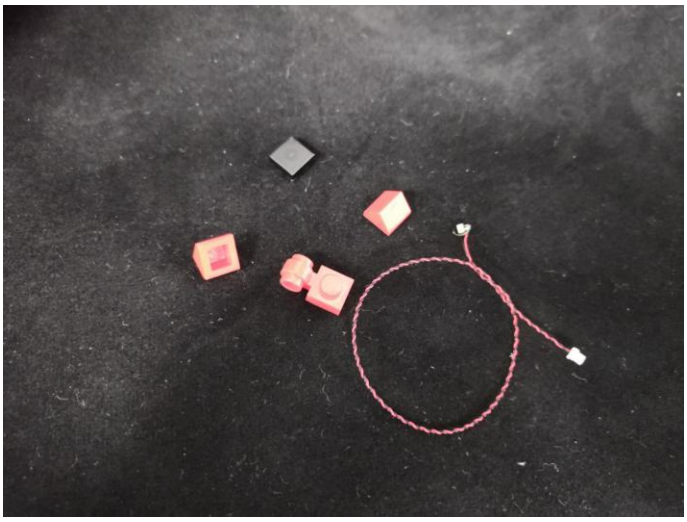
60.Reconnect the other red triangle piece.



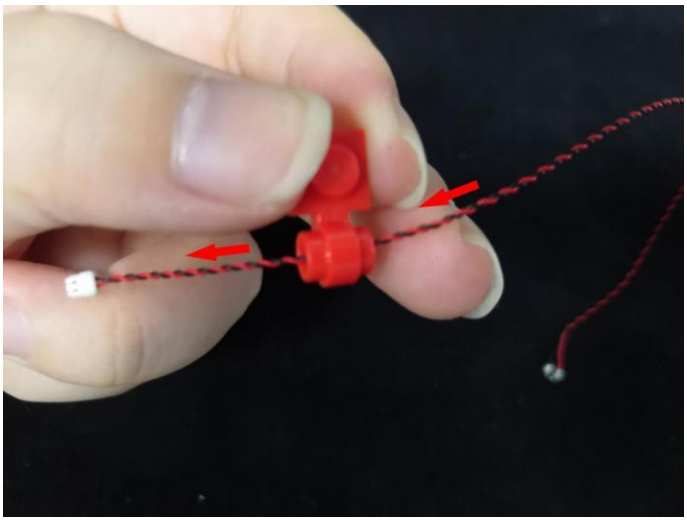
61.Reconnect the 1x2 black plate.



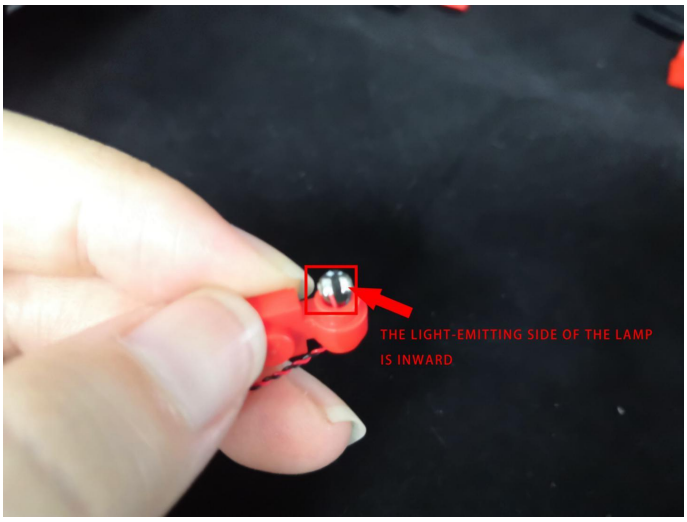
62.Take another taillight, disassemble it as per below, take a 15cm red dot light.



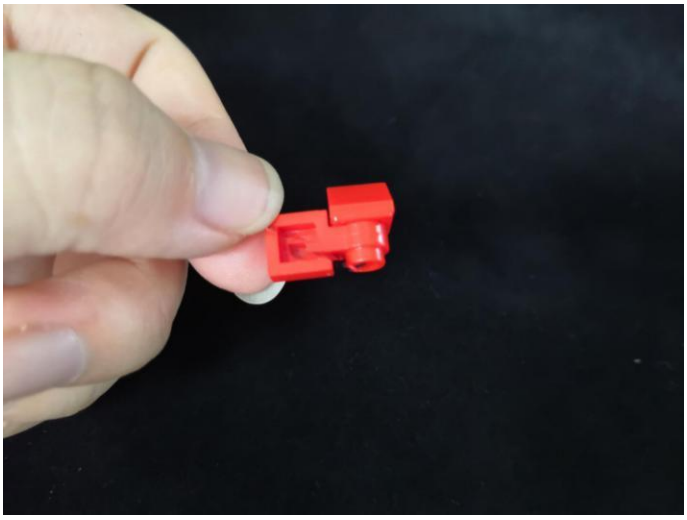
63.Thread the connector through the red piece (with the stud facing up, thread the cable from left to right).



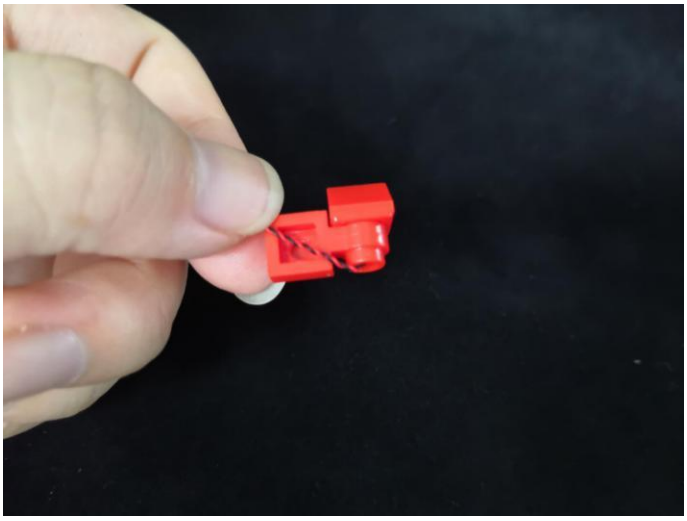
64.Pull the cable out till the light is stuck at the hole, and the lighting part is facing inside.



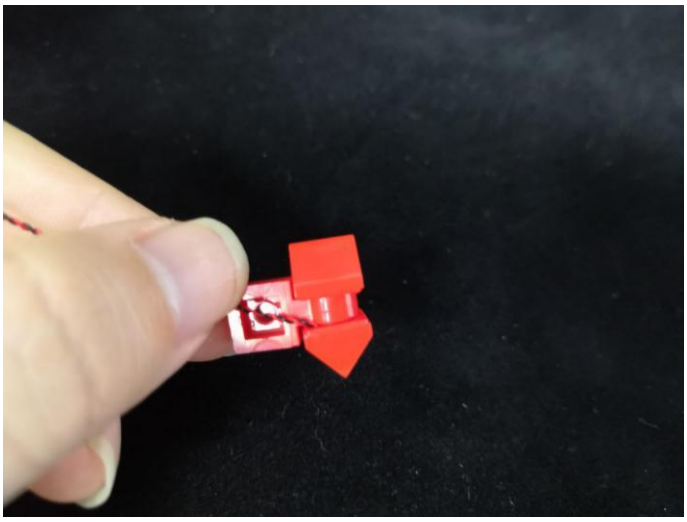
65.Reconnect the red triangle piece to secure the cable.



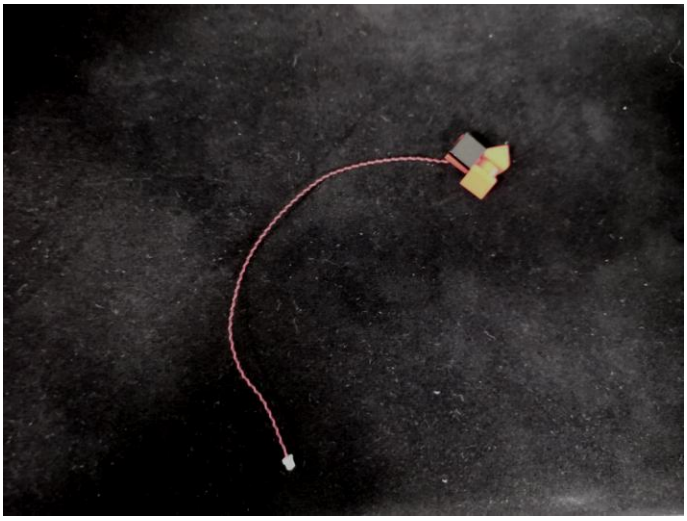
66.Tighten up the cable as per below.



67.Reconnect the other red triangle piece as per below.

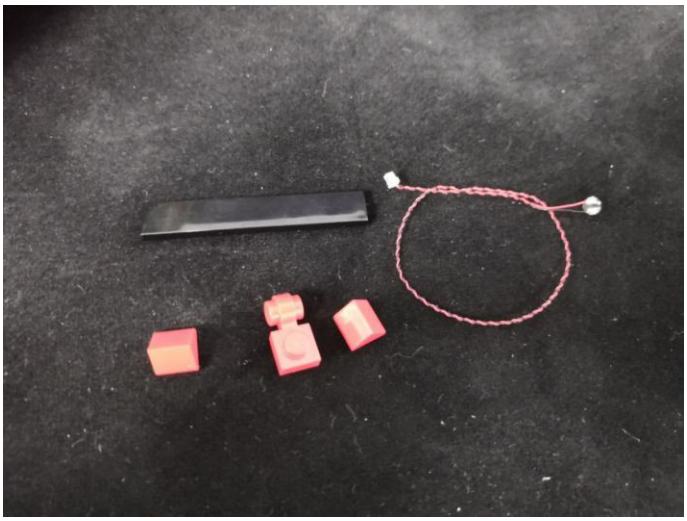


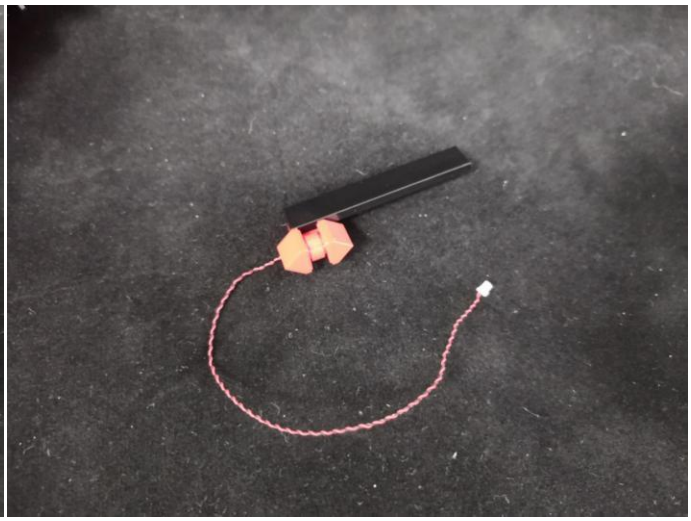
68.Reconnect the black 1x1 plate.



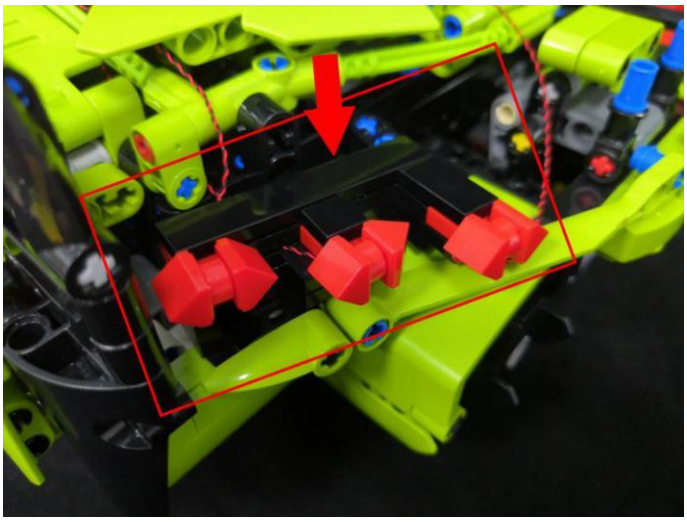
69.Take the 1x6 black plate from the roof, and disassemble it as per below.

Take a red 15cm dot light, repeat the steps above to install the light.

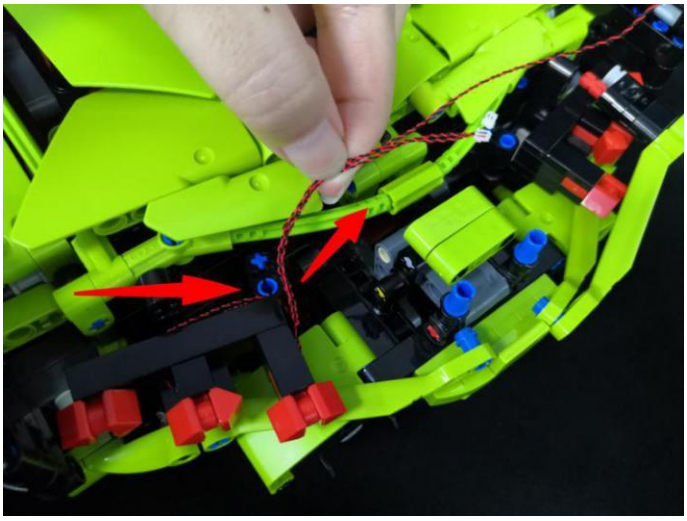




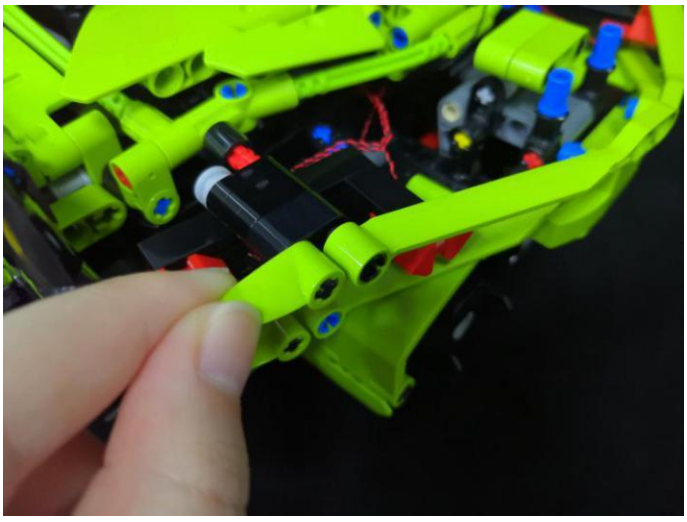
70.Reconnect the taillights as per below.



71.Group the 3 cables together， place them as per below.



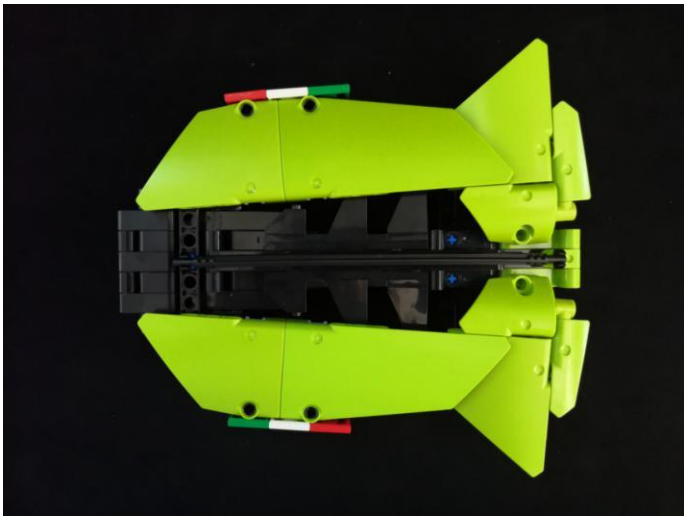
72.Reconnect the piece we removed before.

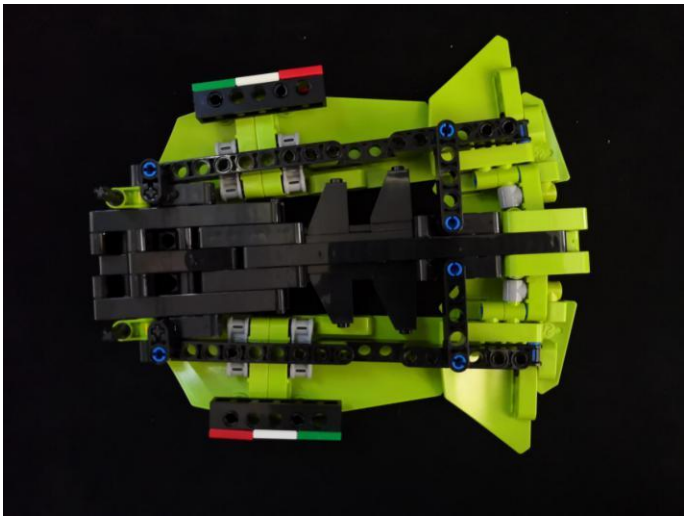


73.Disconnect the engine cover as per below.

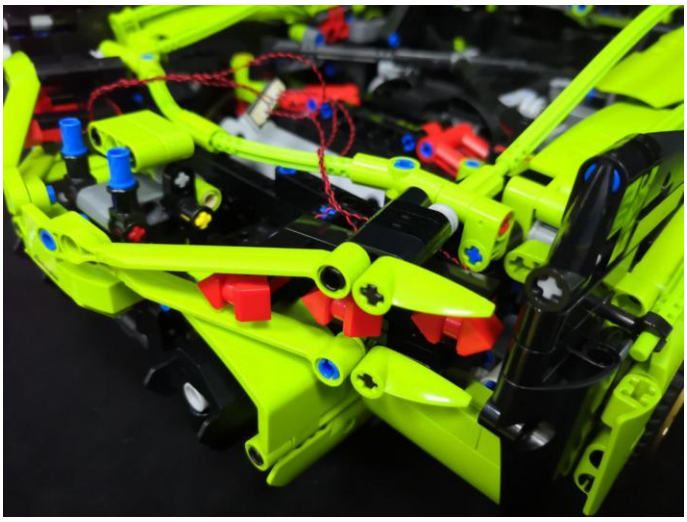


74.Remove the following piece.

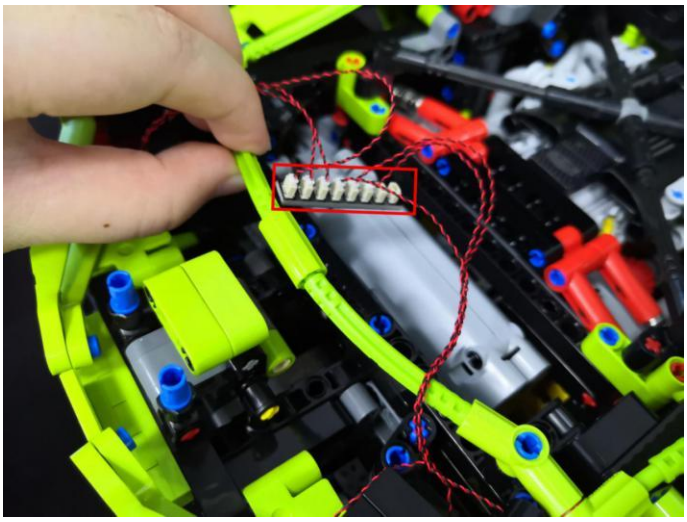




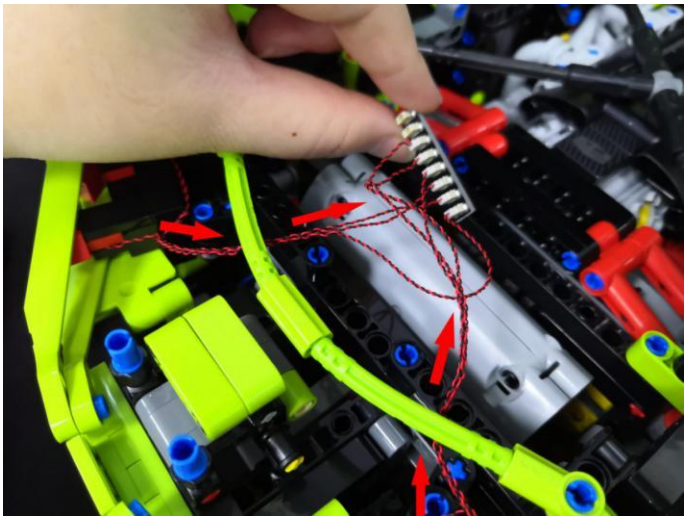
75.Take 3 red dot lights, repeat the previous steps to install the taillights at the other side.



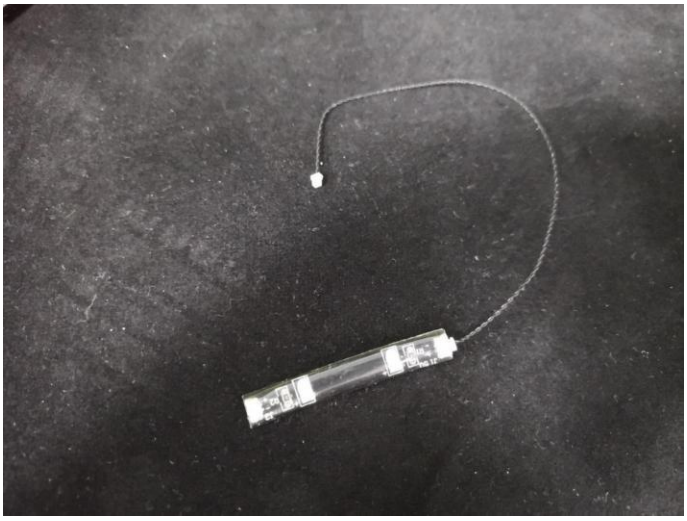
76.Connect the cables to the 8-port expansion board.



77.Thread the expansion board through the following space.



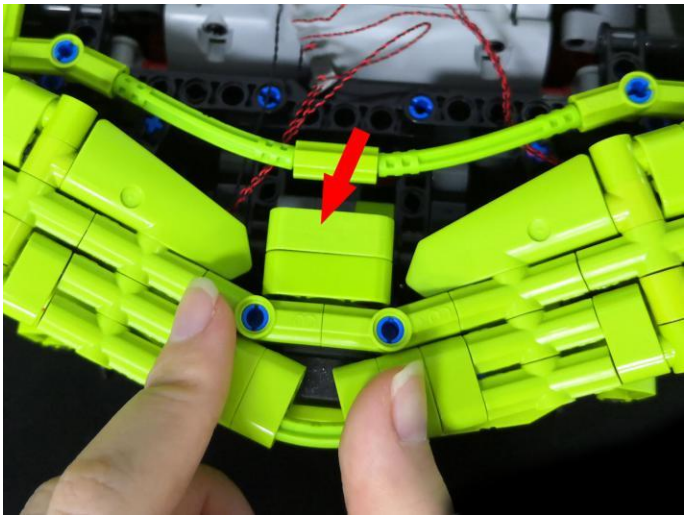
78.Take a red strip light, a 15cm connecting cable, assemble them as per below.：



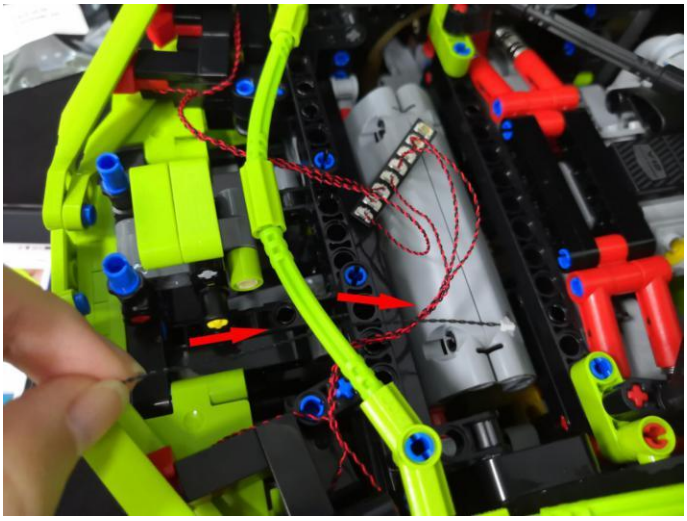
79.Take the spoiler, stick the strip light to the spoiler (Note: on the convex side) as per below.



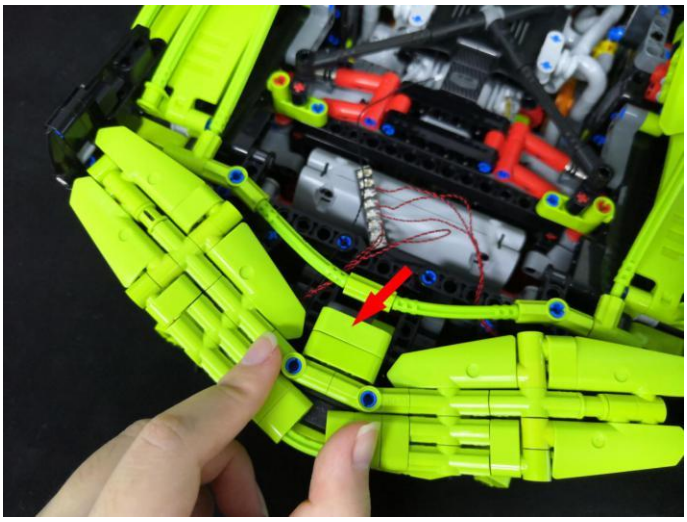
80.Reconnect the spoiler.



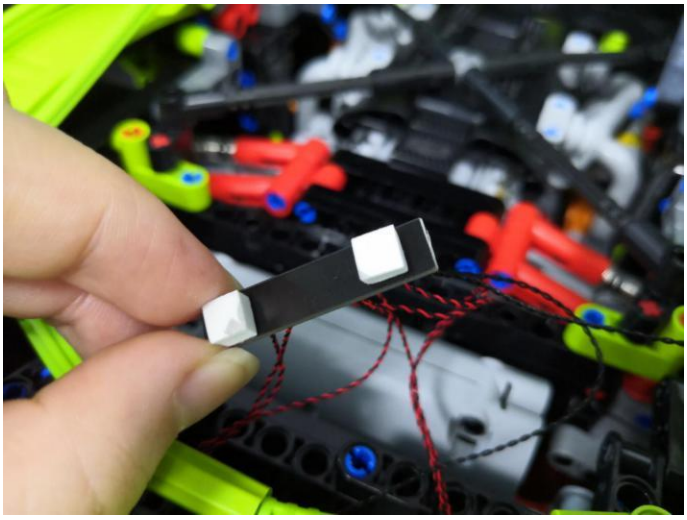
81.Thread the cable through the following green piece as per below.



82.Reconnect the following piece.

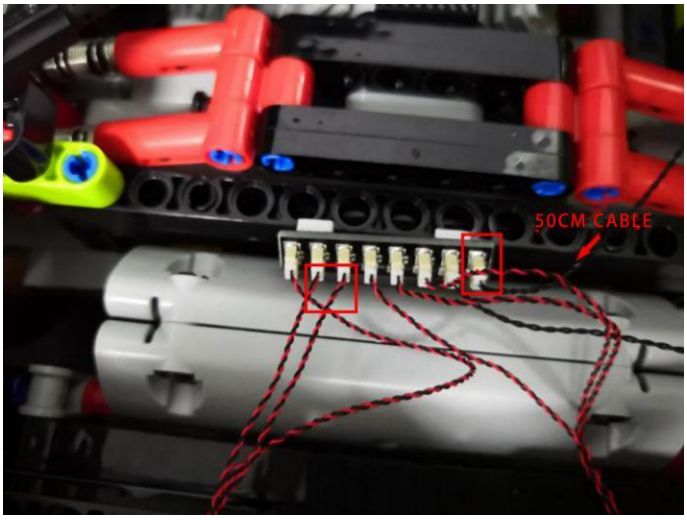


83.Take 2 adhesive squares, stick them to the back of the expansion board.



84.（All the 6 red taillights are connected to the expansion board）

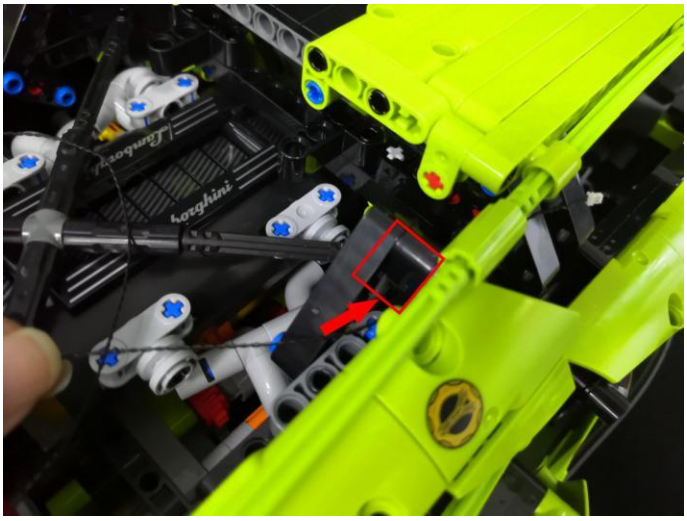
Place the expansion board at the following place, take a 50cm connecting cable, connect it to the expansion board.



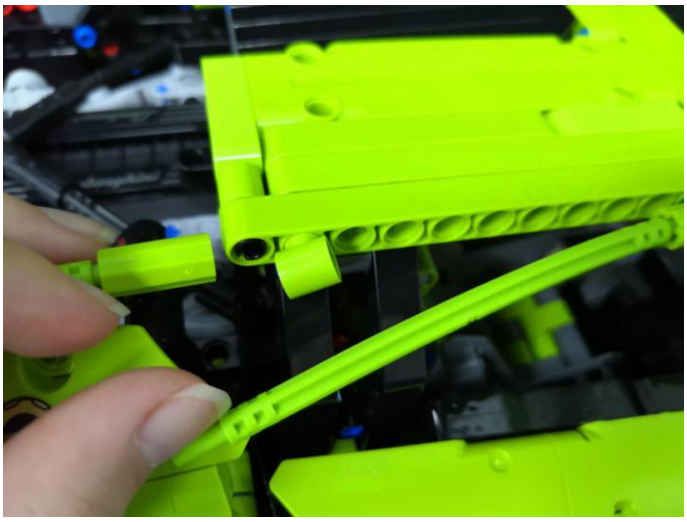
85.Thread the 50cm connecting cable through the following space.



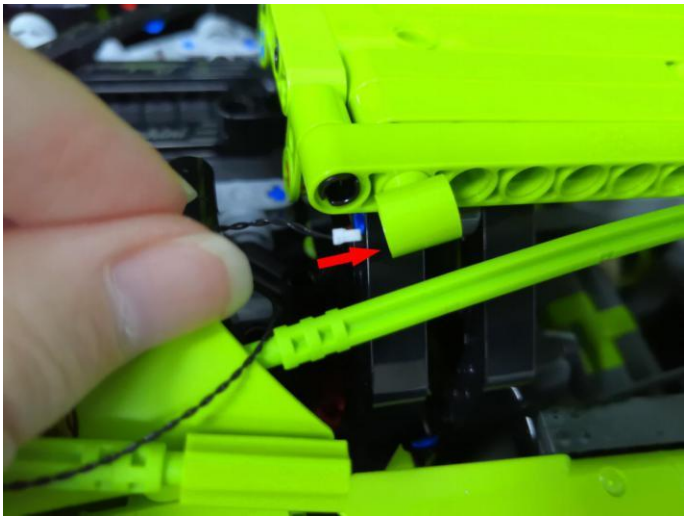
86.Continue to thread the cable through the following space.



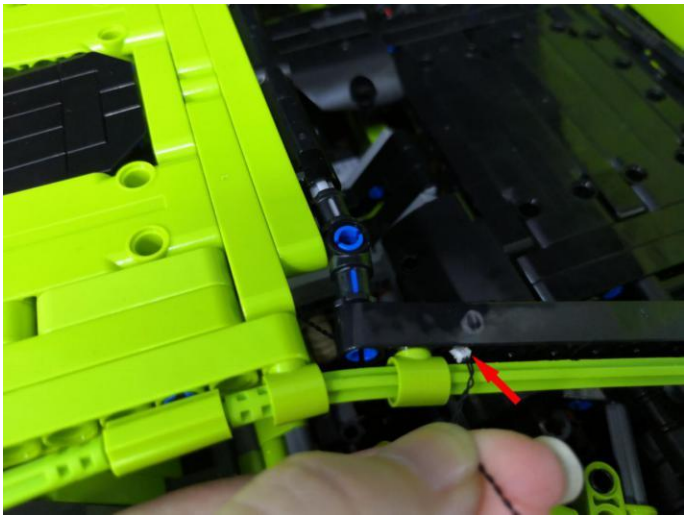
87.Disconnect the green piece over the black support.



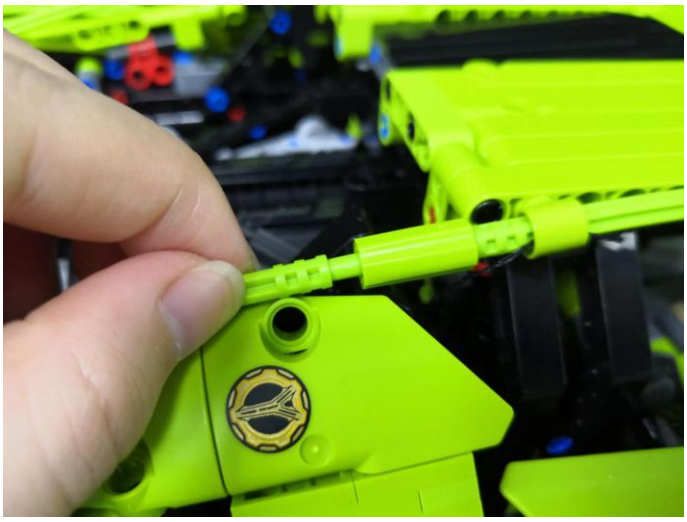
88.Thread the cable through the green hole.



89.Tighten the cable up, thread it through the following space.



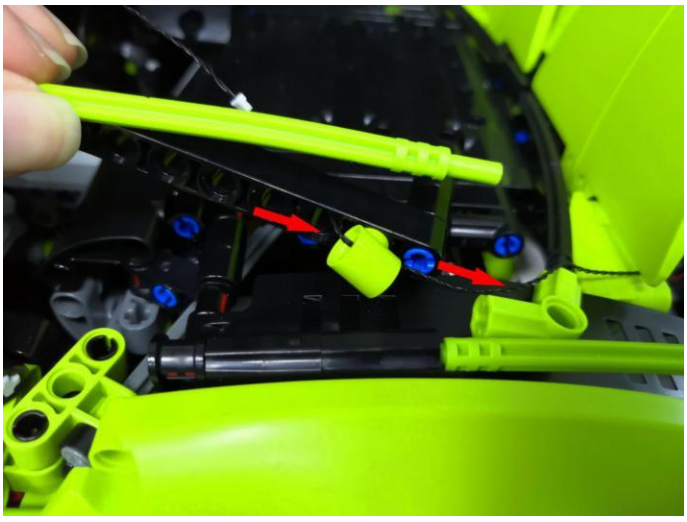
90.Reconnect the green piece.



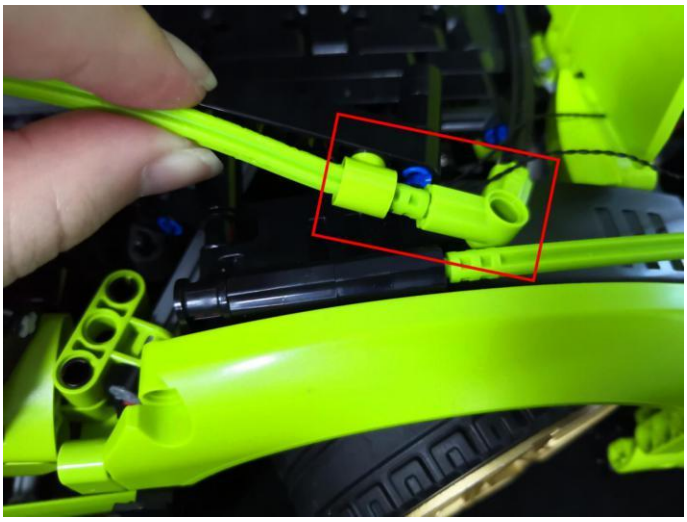
91.Remove the following green piece.



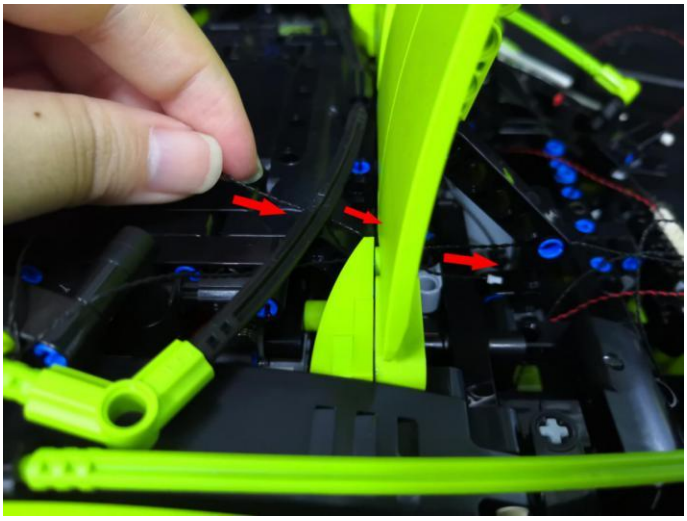
92.Thread the cable through the green hole as per below.



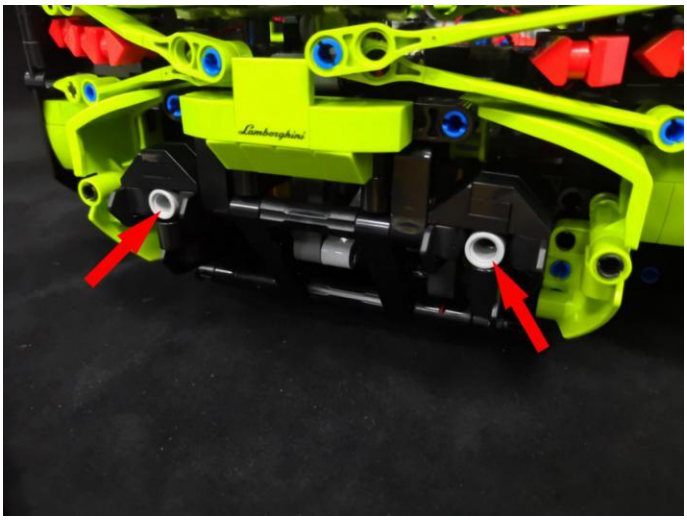
93.Tighten the cable up, reconnect the green piece to secure the cable.



94.Thread the cable through the following space.



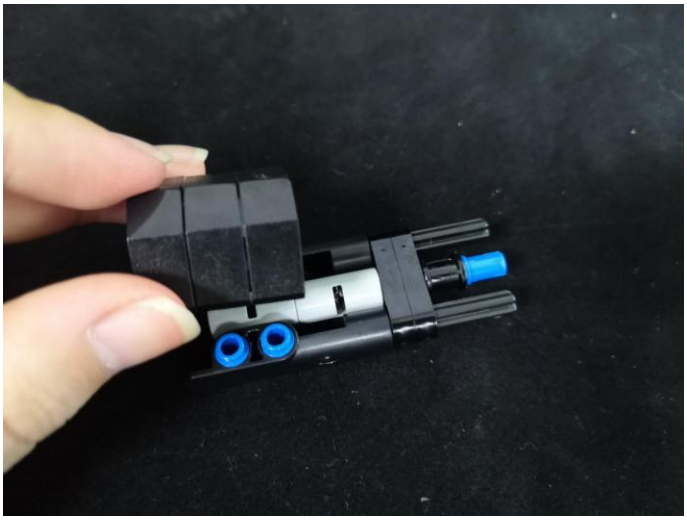
95.Turn to the tail of the car, remove the 2 pipes.

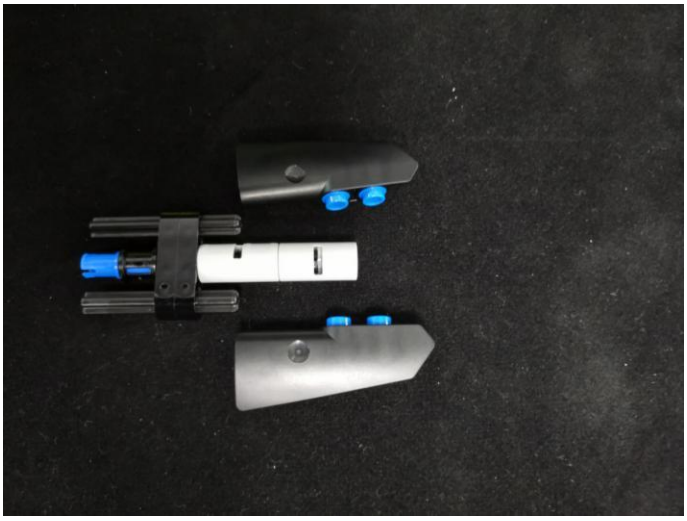


96.Remove the 2 pieces.

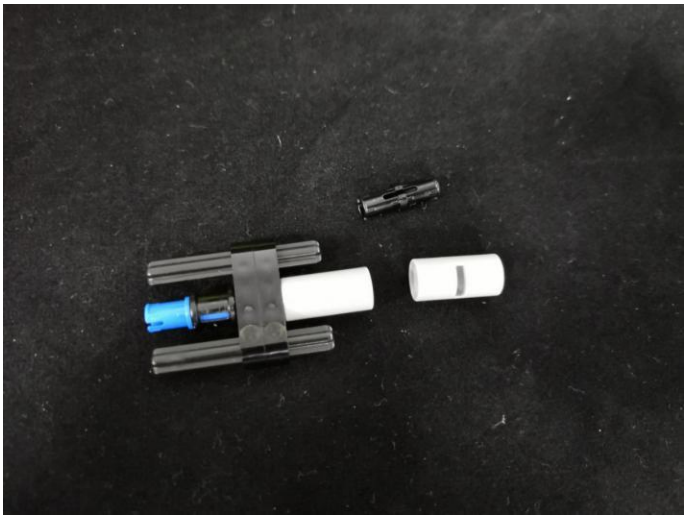


97.Take a pipe, and disassemble it as per below.

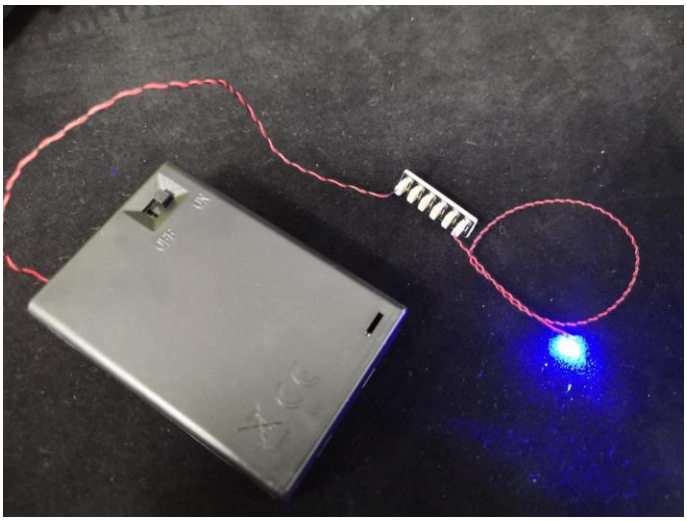




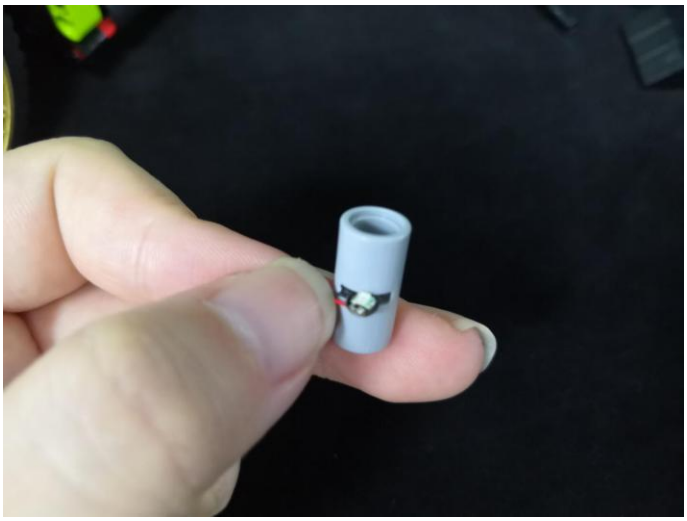
98.Disconnect the column from the middle.



99.Take a blue 15cm dot light, connect it to the 6-port expansion board, turn the power on to test if the light is working.



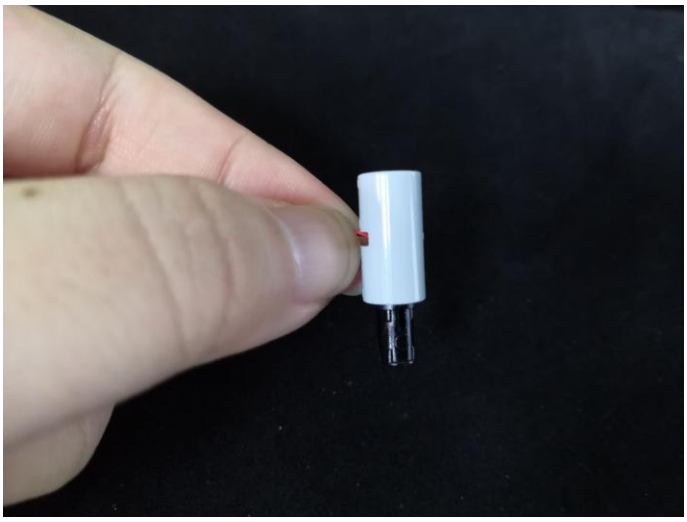
100.Disconnect the cable, put the light inside the gray column as per below.



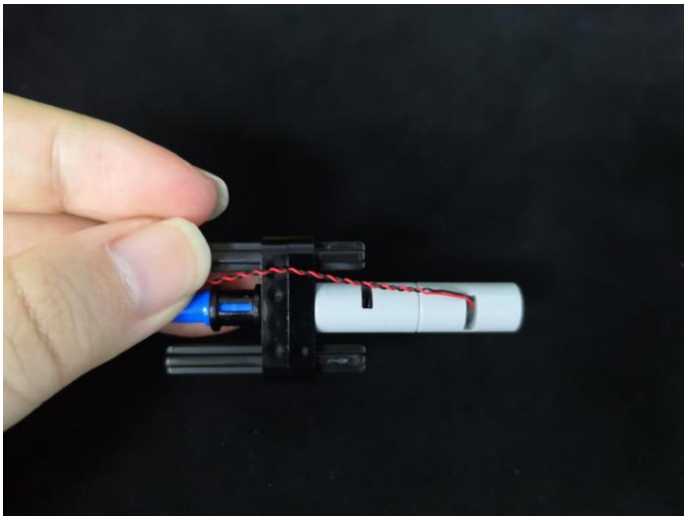
101.If you placed the light right, you will see it as per below.



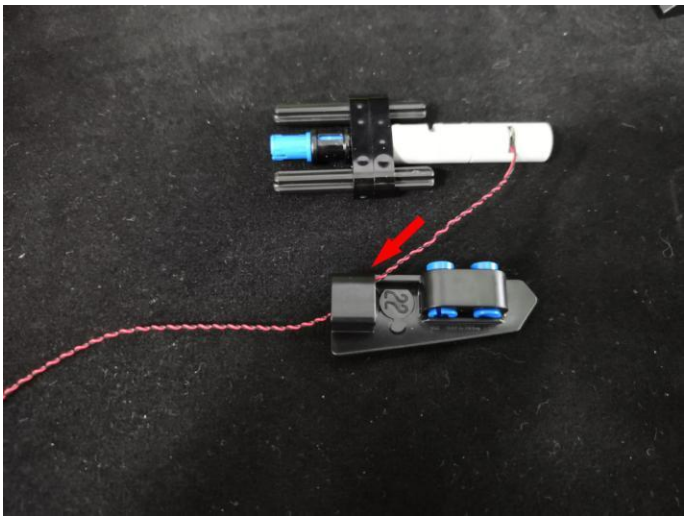
102.Pull the black bolt in from the back as per below.



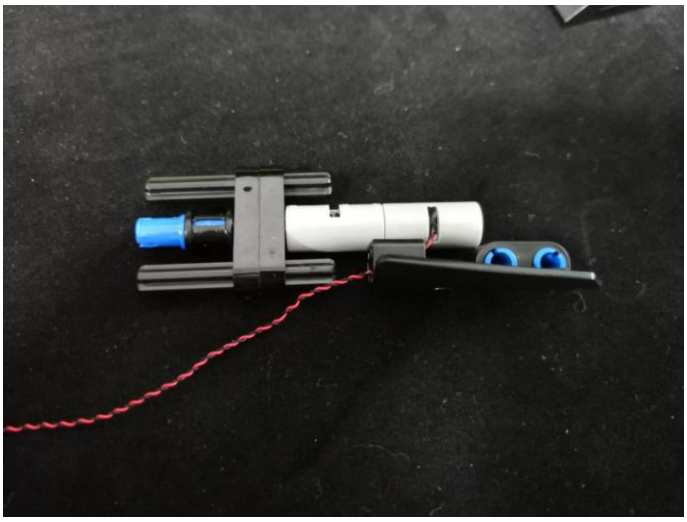
103.Reconnect the piece back to the black support.



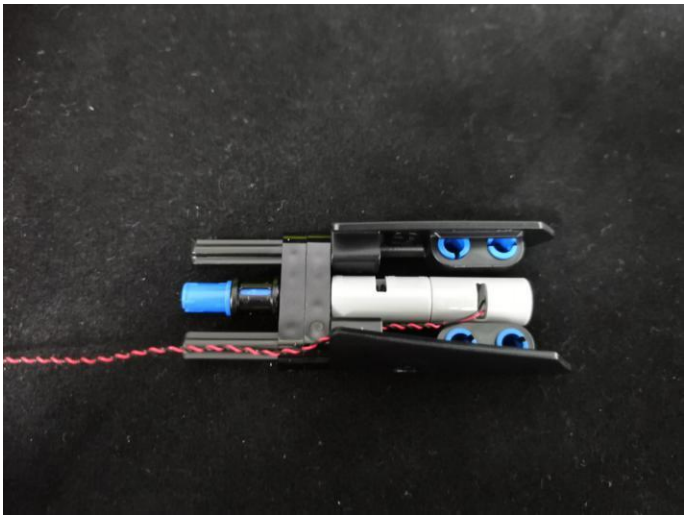
104.Thread the cable through the following black piece.



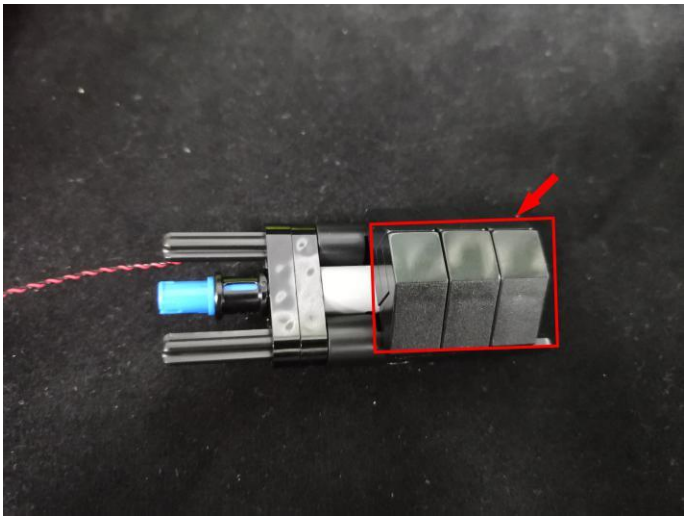
105.Reconnect the black piece (in case of breaking the cable, do not press the pieces too hard).



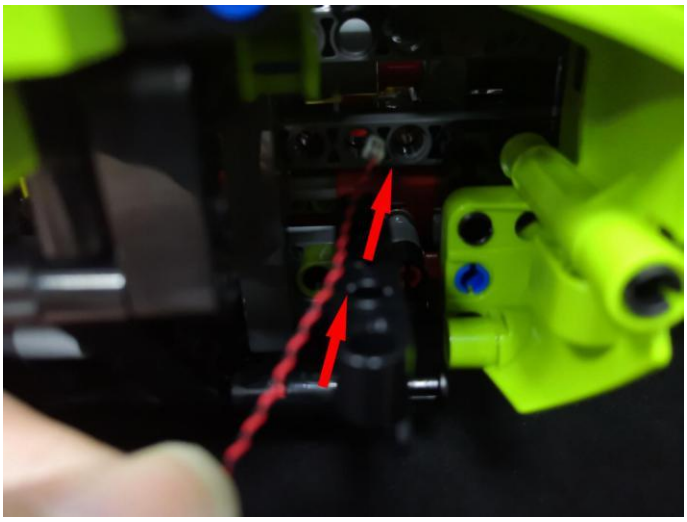
106.Reconnect the black piece at the other side.



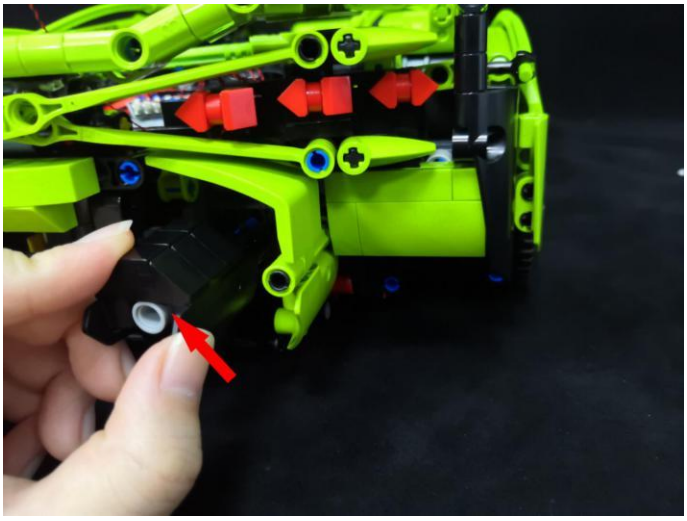
107.Continue to reconnect the black piece over it.



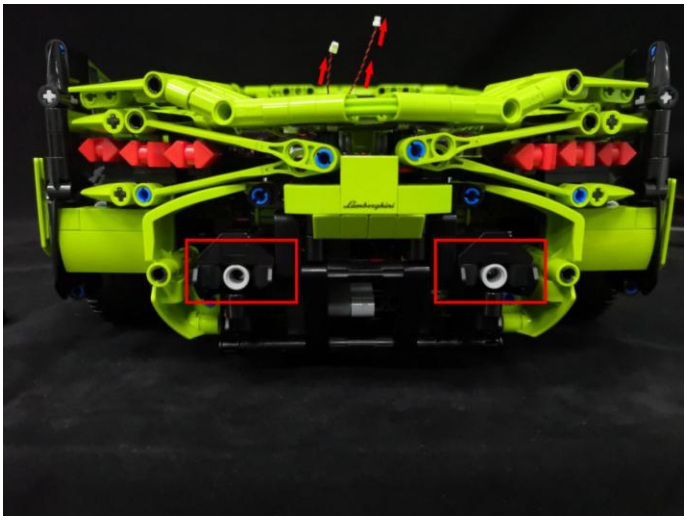
108.Thread the cable through the following piece.



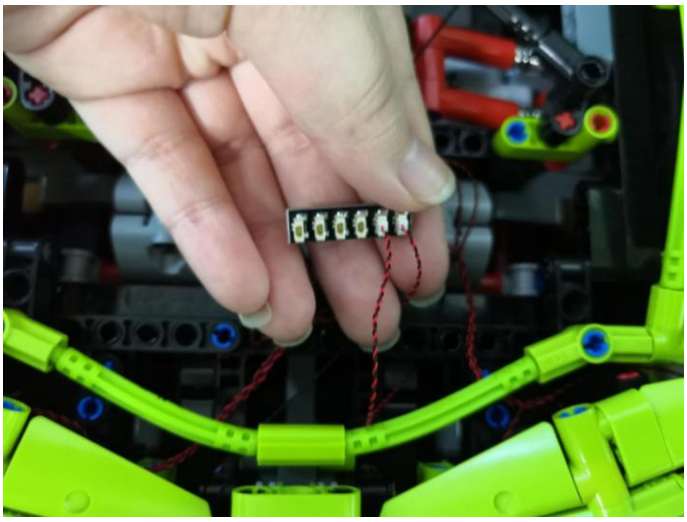
109.Reconnect the pipe.



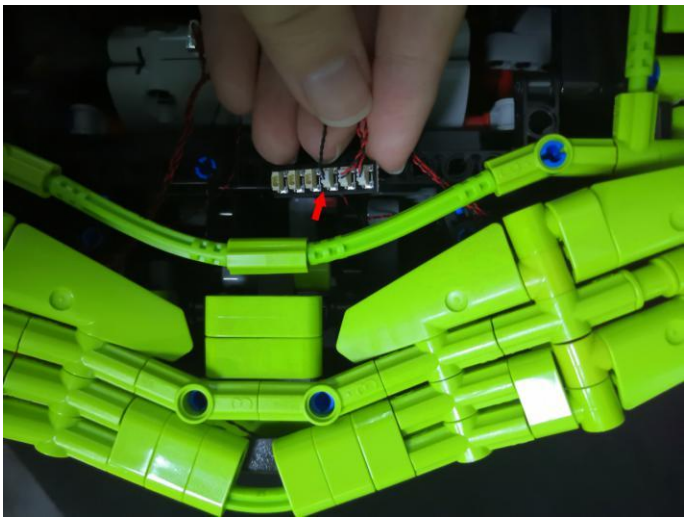
110.Take a blue dot light, repeat the steps above to install the light for the other pipe.



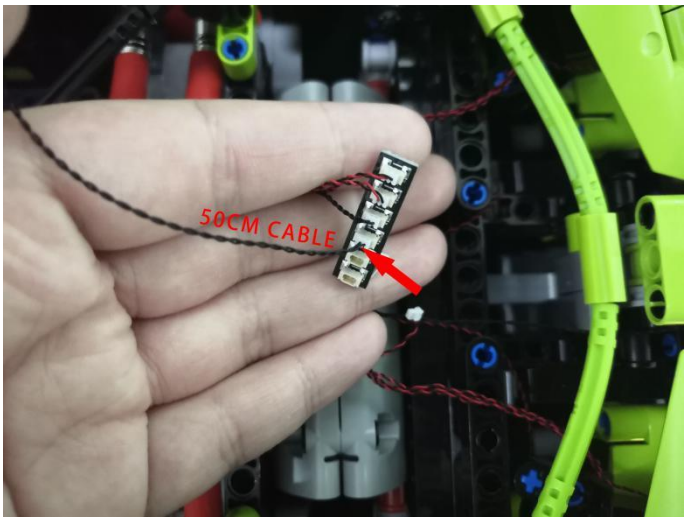
111.Disconnect the cable of the battery pack from the 6-port expansion board, and connect the cables of the pipes to the expansion board.



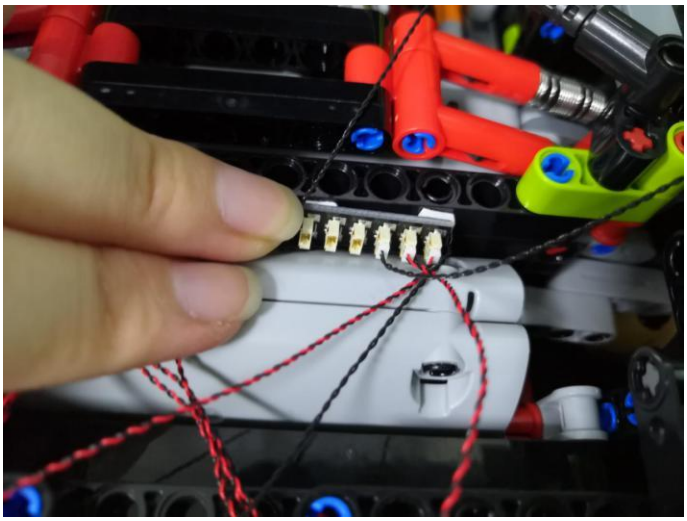
112.Connect the cable of the strip light from the roof to the expansion board.



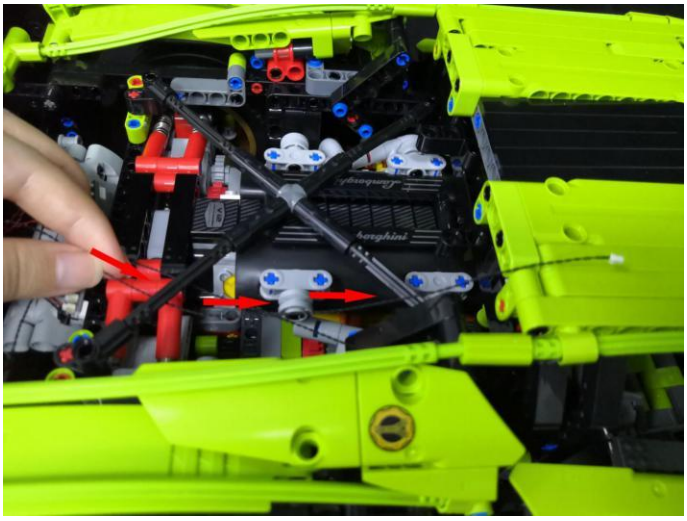
113.Take a 50cm connecting cable, connect it to the 6-port expansion board.



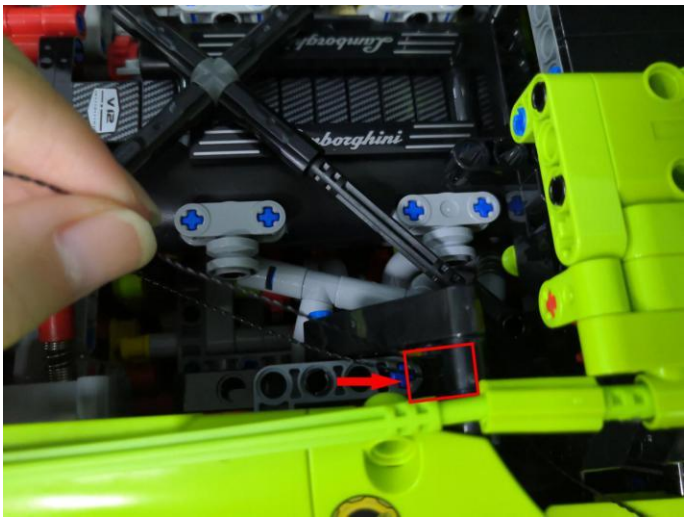
114.Take 2 adhesive squares, stick the expansion board to the following place with them.



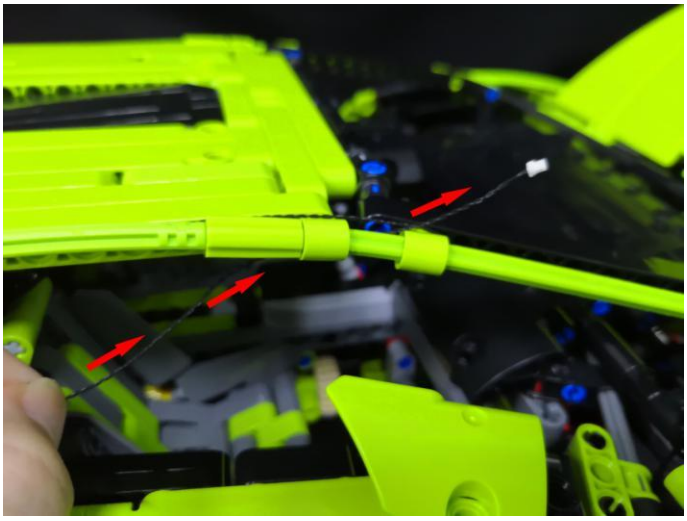
115.Thread the connecting cable through the following space.



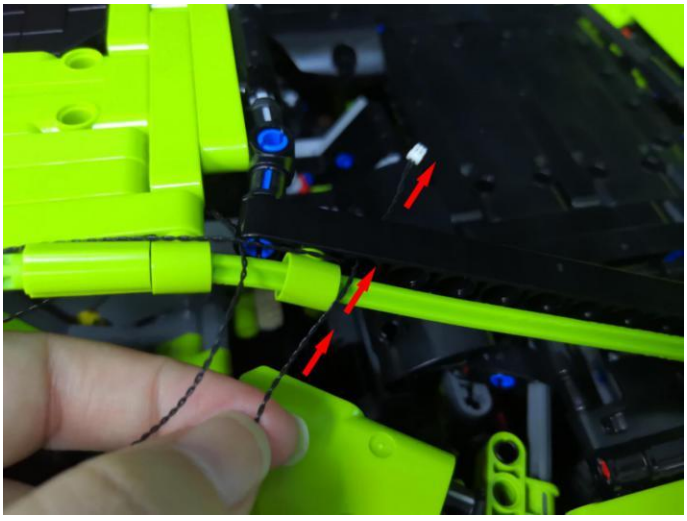
116.Continue to thread it through the following hole.



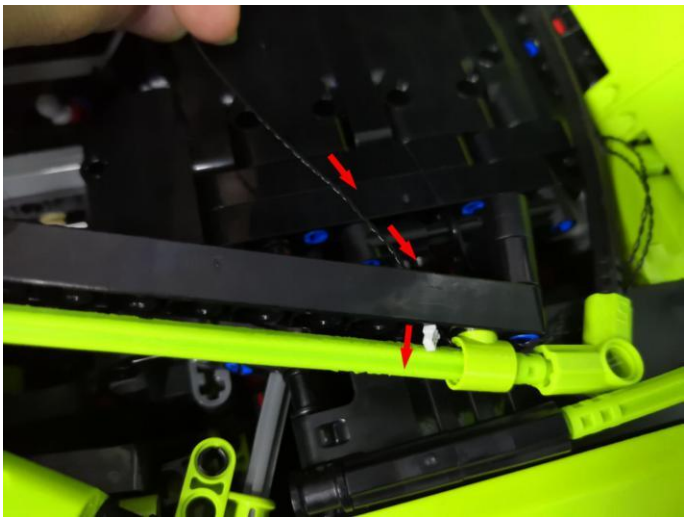
117.Follow the arrows to thread the cable through the following space.



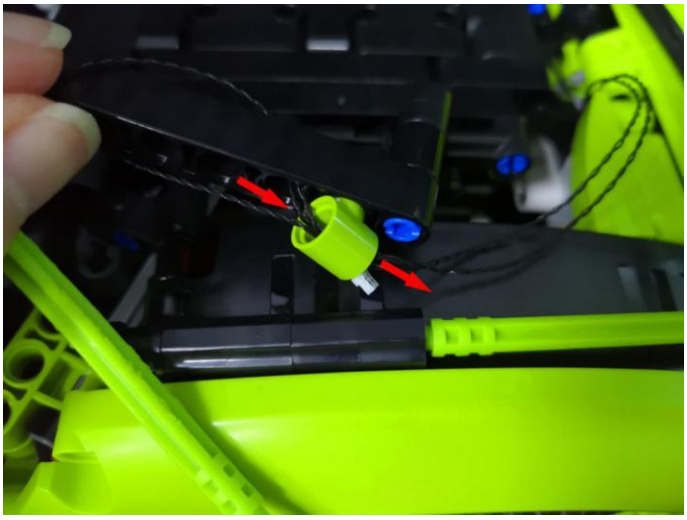
118.Thread it through the following hole.

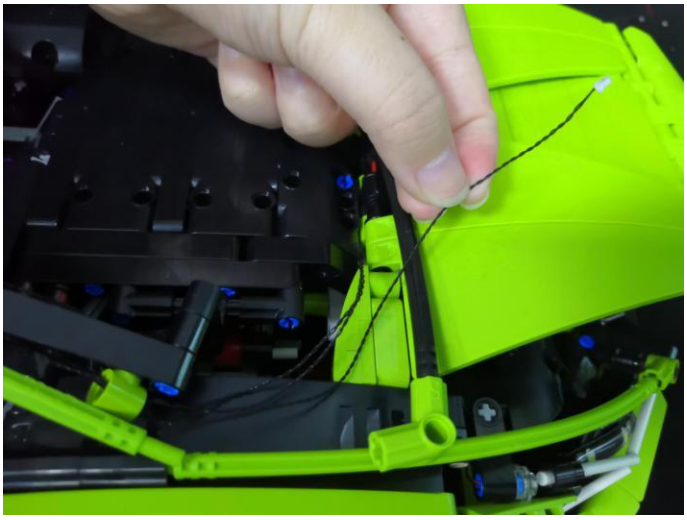


119.Continue to thread it through the following hole.



120.Disconnect the green piece, thread the cable through the following space.

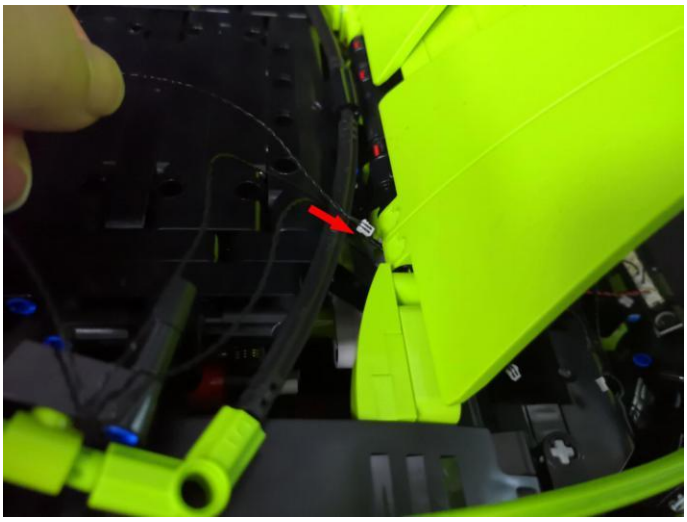




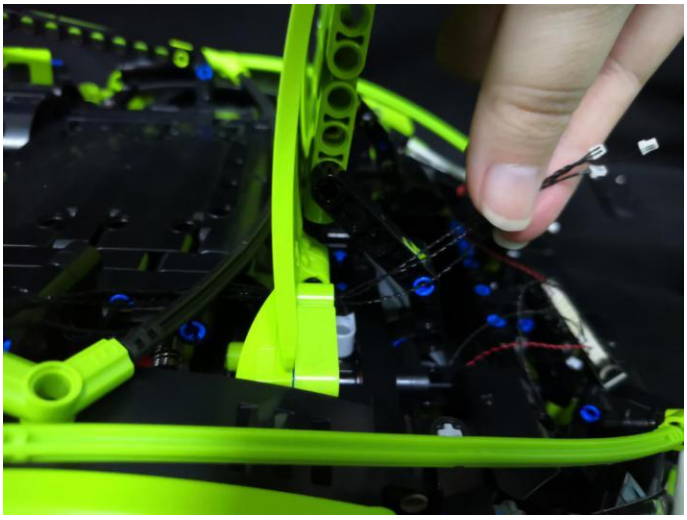
121.Reconnect the green piece.



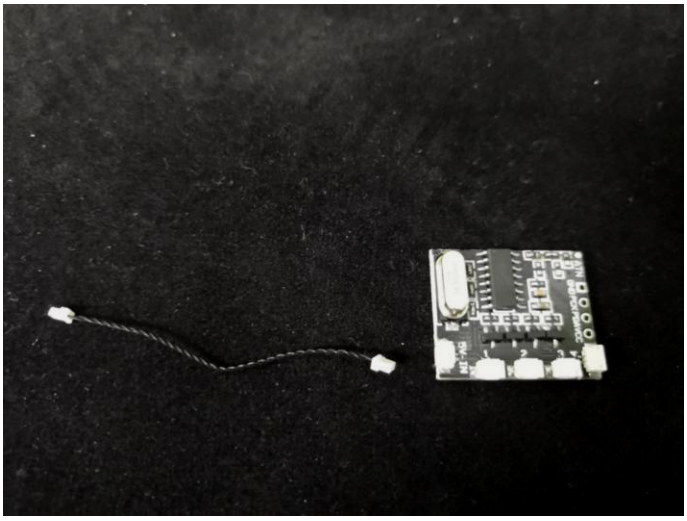
122.Move onto threading the cable through the following space.



123.There are 3 cables at the head of the car which come from the roof, the taillight, the spoiler and the pipes.



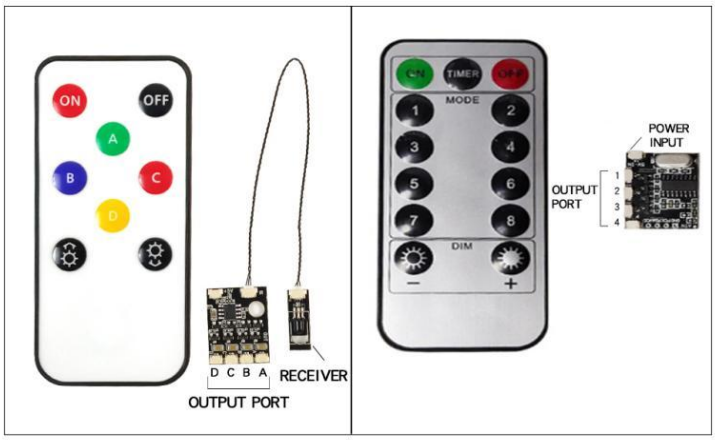
124.Take the 5cm connecting cable, a Remote Control Switch Board.



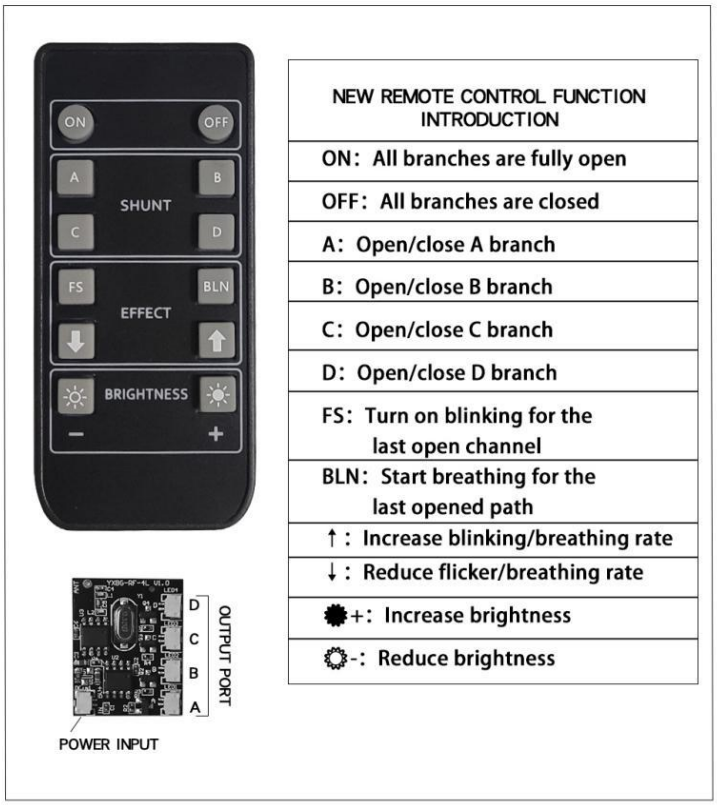
FRIENDLY TIPS

The remote control has been updated

Old style remote control:



New remote control:



NEW REMOTE CONTROL FUNCTION INTRODUCTION
ON: All branches are fully open
OFF: All branches are closed
A: Open/close A branch
B: Open/close B branch
C: Open/close C branch
D: Open/close D branch
FS: Turn on blinking for the last open channel
BLN: Start breathing for the last opened path
↑: Increase blinking/breathing rate
↓: Reduce flicker/breathing rate
✹+: Increase brightness
✹-: Reduce brightness

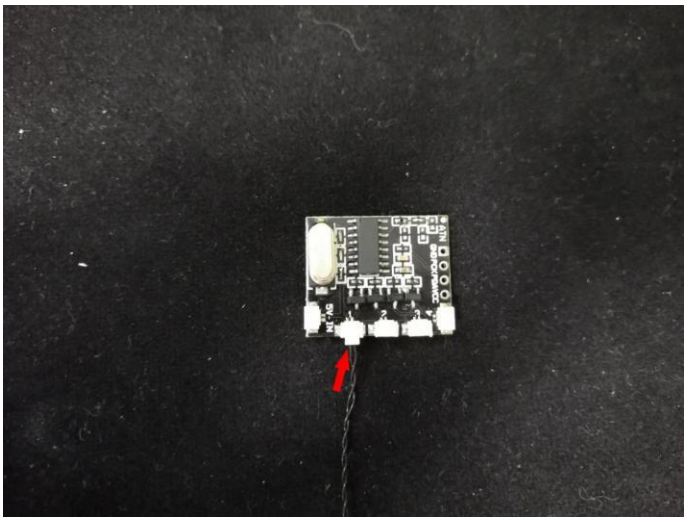
① Cancel the external signal receiver and change to an integrated design with strong signal and fast feedback.

② Add more functions, such as adding buttons such as breathing flashing frequency

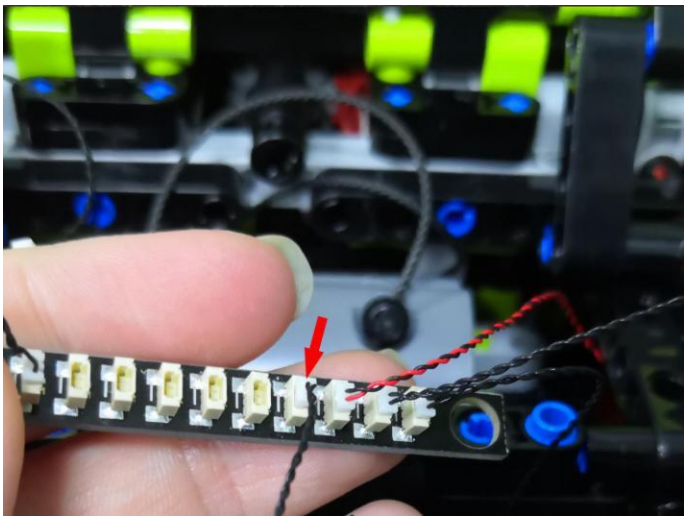
③ The old A.B.C.D or 1.2.3.4 route corresponds to the new A.B.C.D route

More fun features look forward to your exploration!

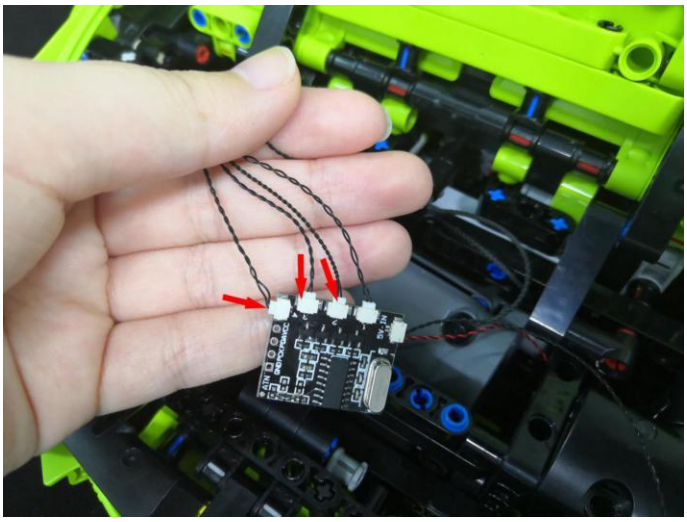
125.Connect the 5cm connecting cable to the following port.



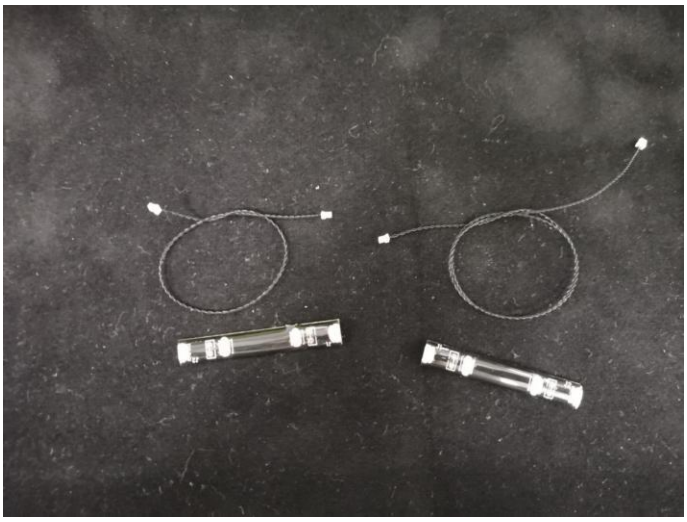
126.Connect the other end of the 5cm connecting cable to the 12-port expansion board at the head.



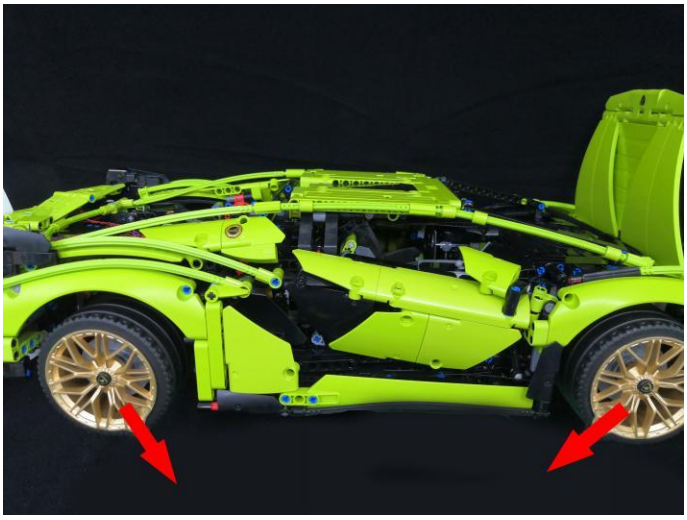
127.Connect the 3 cables from the head to the following ports on the Remote Control Switch Board.



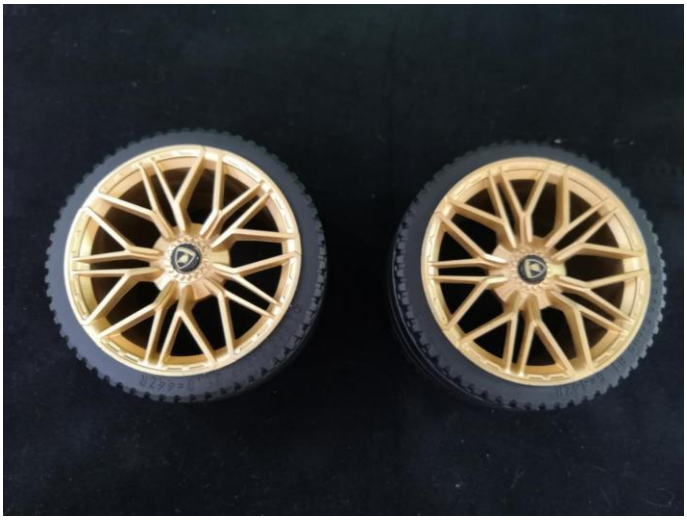
128.Move onto installing lights for the wheels. Take 2 red strip lights, a 15cm connecting cable, a 30cm connecting cable.



129.Pull the 2 wheels out as per below.



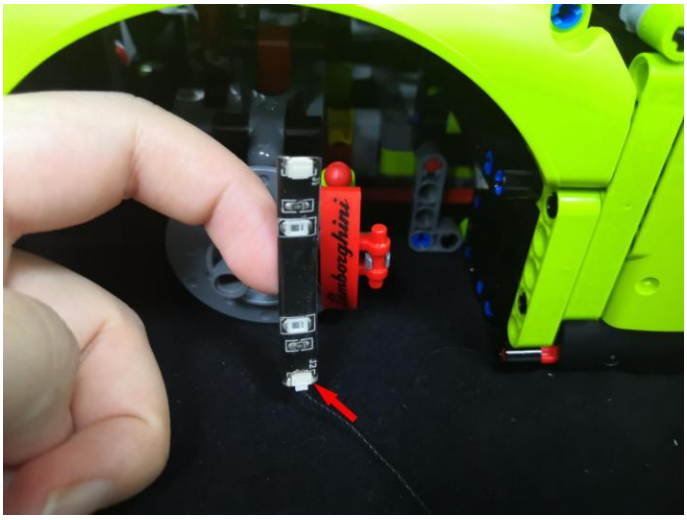
130.Disconnect the 2 wheels.



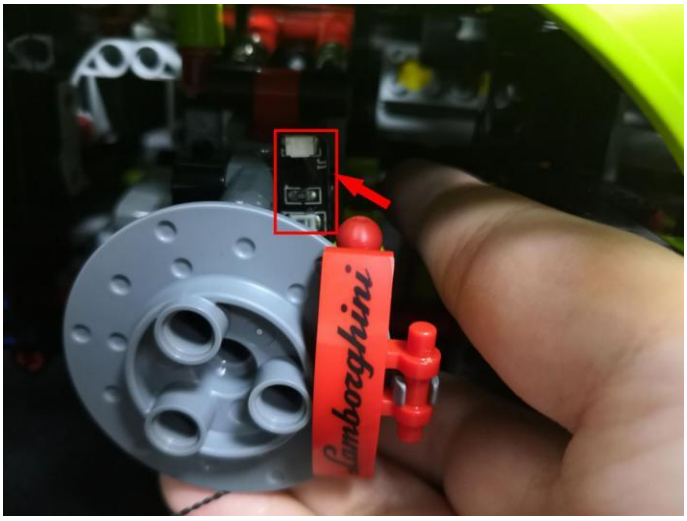
131.Connect the 30cm connecting cable to the strip light as per below.



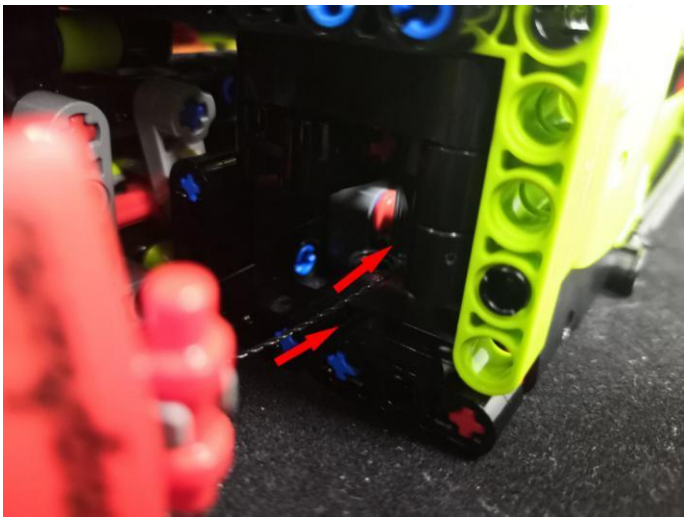
132.With the side of the port connected to the connecting cable facing down.

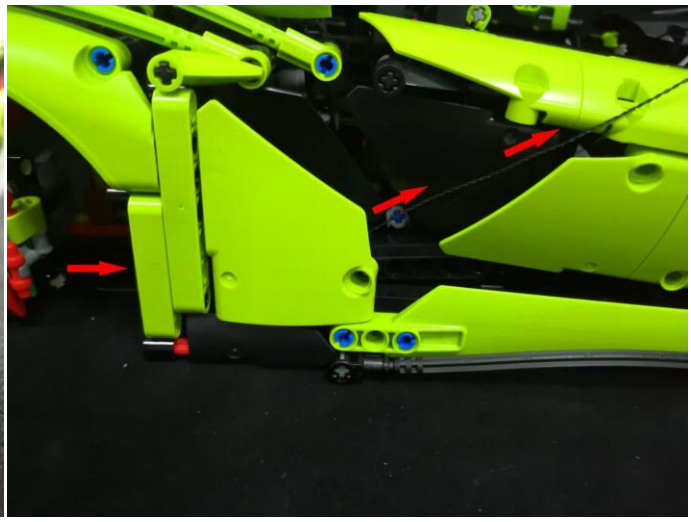


133.Stick the strip light to the following place.

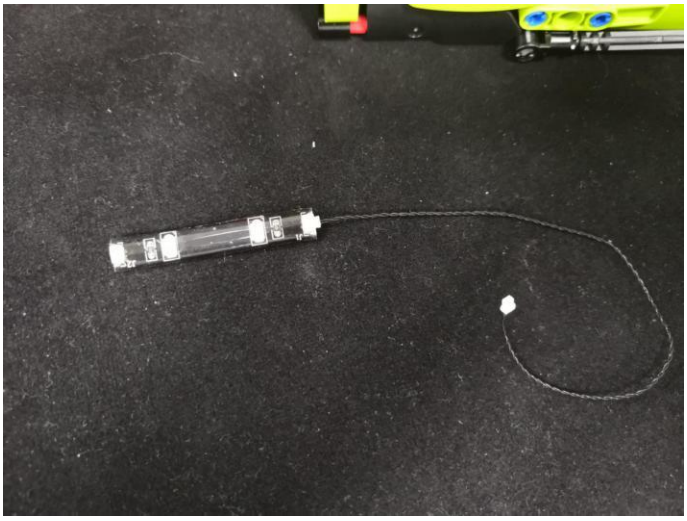


134.Thread the cable through the following space.





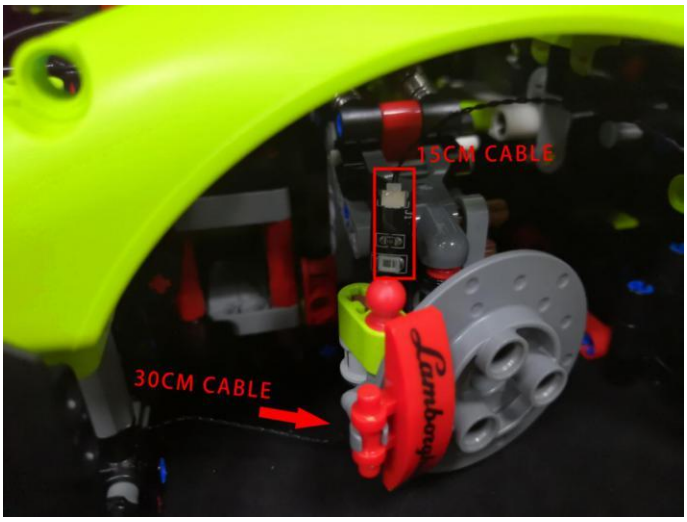
135.Connect the 15cm connecting cable to the other strip light.



136.Connect the cable to the following strip light.

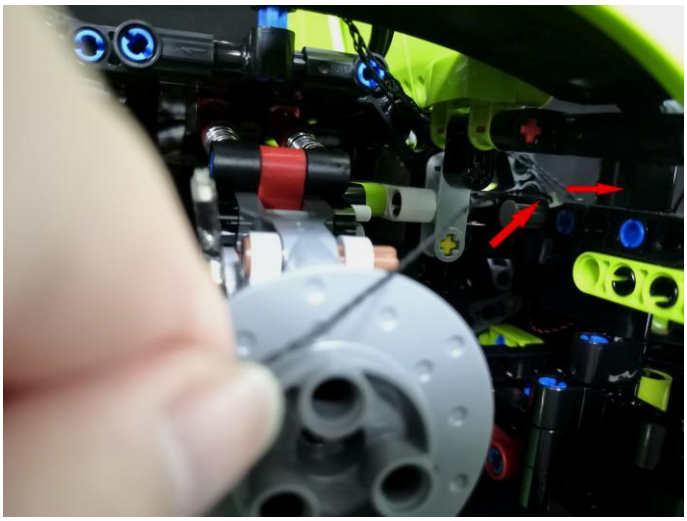


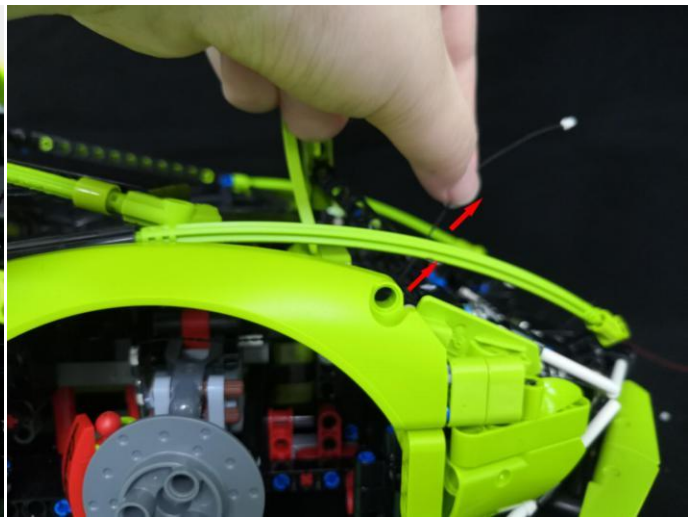
137.Stick the strip light to the following place.



138.（The port with 15cm connecting cable facing up, and the port with 30cm connecting cable facing down）

Thread the cable through the following space.



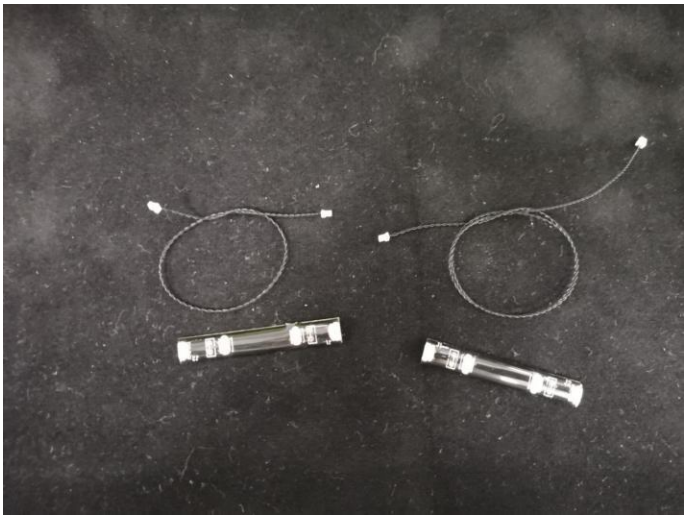


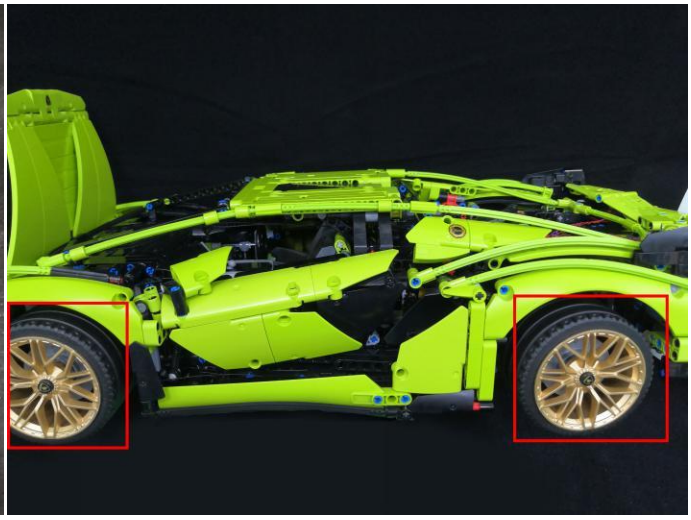
139.Reconnect the 2 wheels.



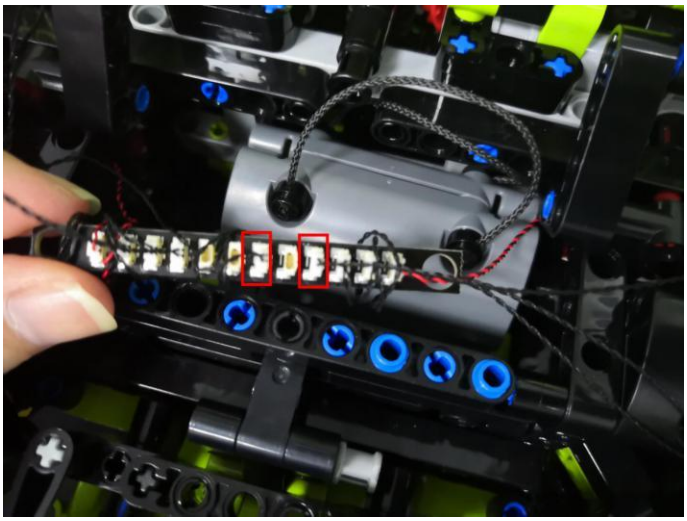


140.Take 2 red strip lights, a 15cm connecting cable, a 30cm connecting cable, repeat the steps above to install the lights for the wheels at the other side.



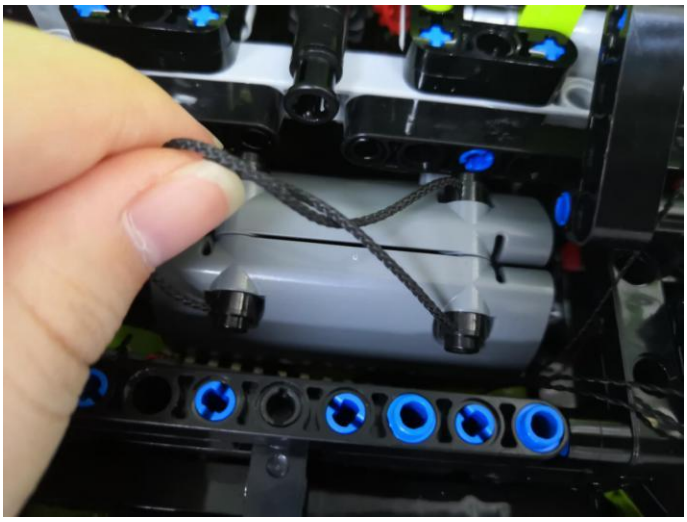


141.Connect the connecting cables from the wheels to the following expansion board at the head.

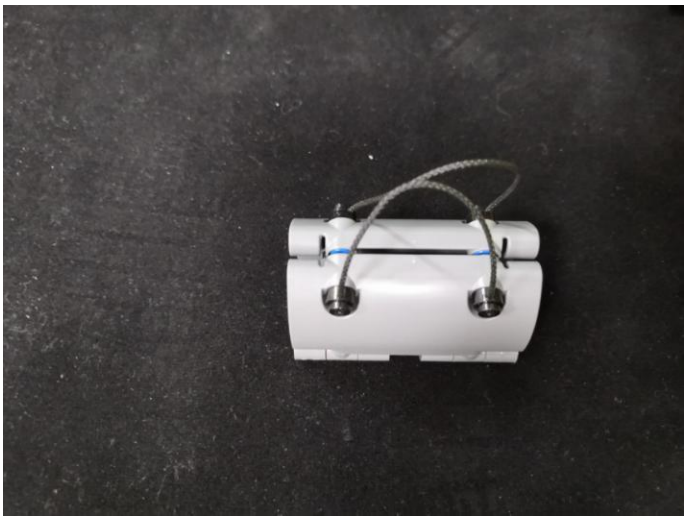


142.（The headlights and the wheels lights share the same circuit）

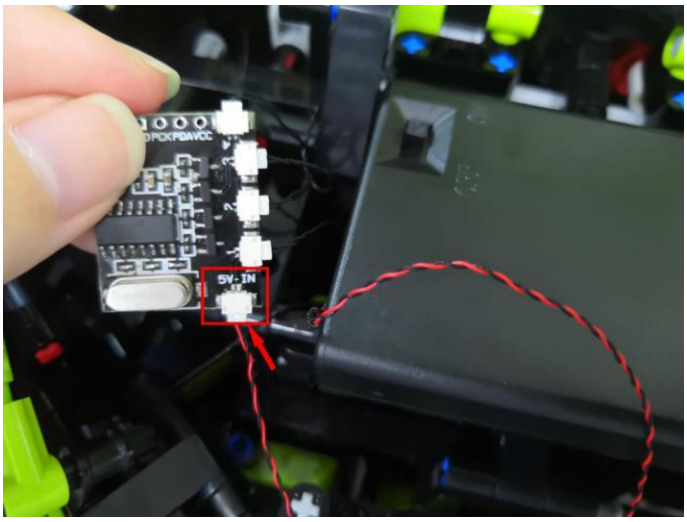
Take the trunk out from the head.



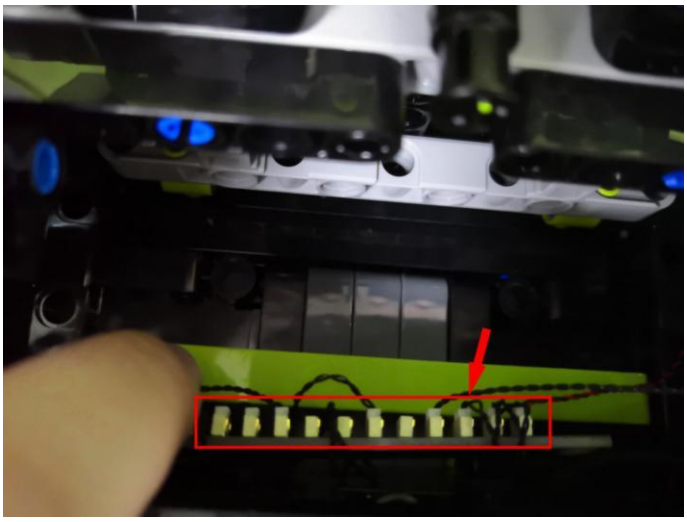
143.Disconnect it as per below.



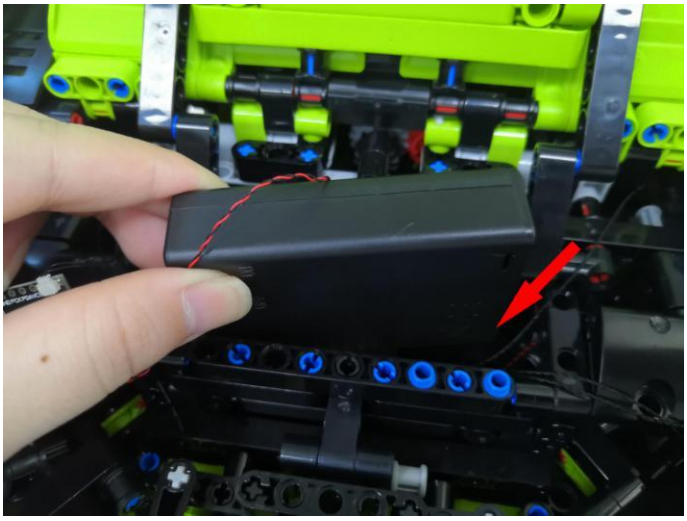
144.Connect the cable of the battery pack to the 5v port on the Remote Control Switch Board, turn the power on.



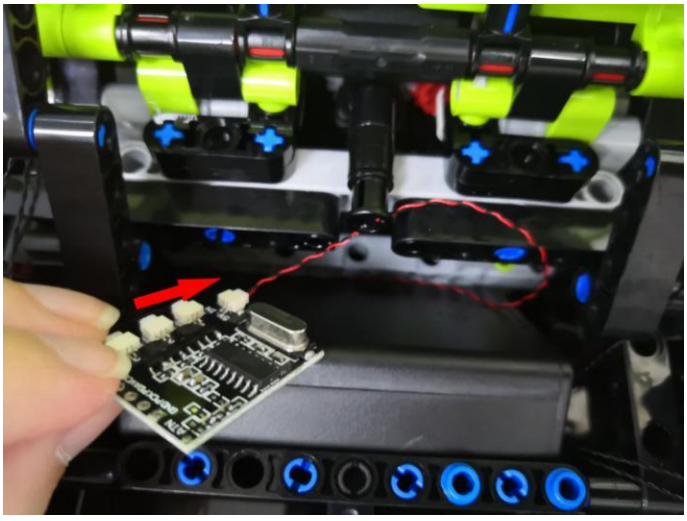
145.Place the expansion board at the following place.



146.Place the battery pack at the following place.



147.Place the Remote Control Switch Board at the following place.



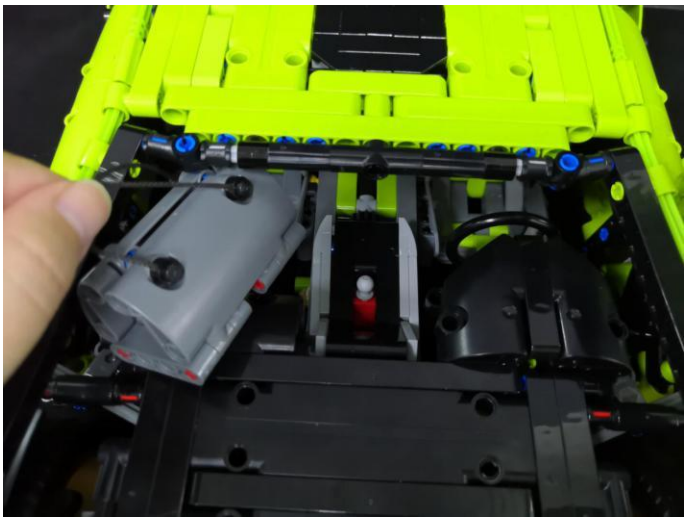
148.Close the lid of the head.



149.Close the roof.



150.Place the trunk at the passenger’s seat. This completes installation of this LED Lighting Kit. ENJOY!



151.Take the Remote Control to test the lights.

遥控功能说明



ON：Open all branches
OFF：All branches are closed
1：Open/close Line 1
2：Open/close Line 2
3：Open/close Line 3
4：Open/close Line 4
5：For the last open path
Blink on
6：For the last open path
Start breathing
7：Increase blinking/breathing rate
8：Decrease flicker/breathing rate
Brightness-：Reduce brightness
Brightness+：Increases brightness

152.The lighting kit display:





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.