

6x6 Volvo Articulated Hauler # Lego Light Kit for 42114 Sound and Light

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:

- 8 x 15cm Warm White Dot Lights
- 2 x 15cm Flashing Yellow Dot Lights
- 4 x 15cm White Dot Lights
- 1 x 15cm Head Light
- 2 x 30cm Red Dot Lights
- 2 x 30cm Flashing Yellow Dot Lights
- 2 x 15cm Blue Strip Light
- 1 x Rotating Light
- 4 x 4-port Expansion Board
- 1 x 6-port Expansion Board
- 3 x 8-port Expansion Boards
- 2 x 5cm Connecting Cables
- 3 x 15cm Connecting Cables
- 3 x 30cm Connecting Cables
- 1 x USB Cable
- 1 x Acousto-optic Control Switch Board

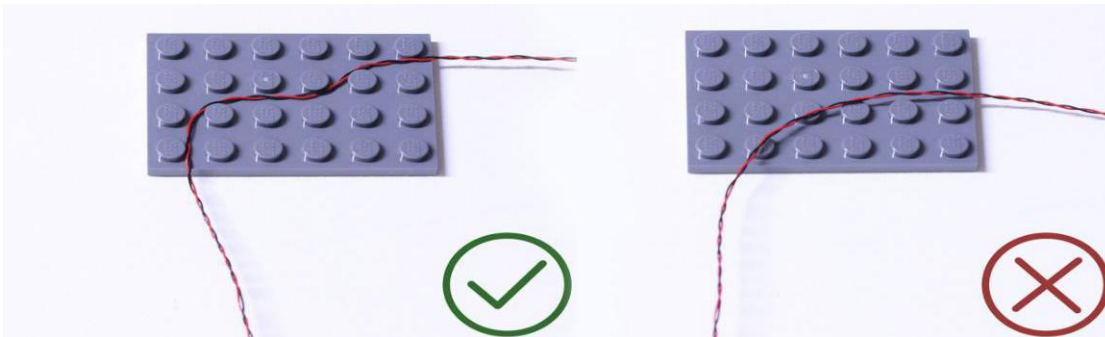
Extra pieces



Note:

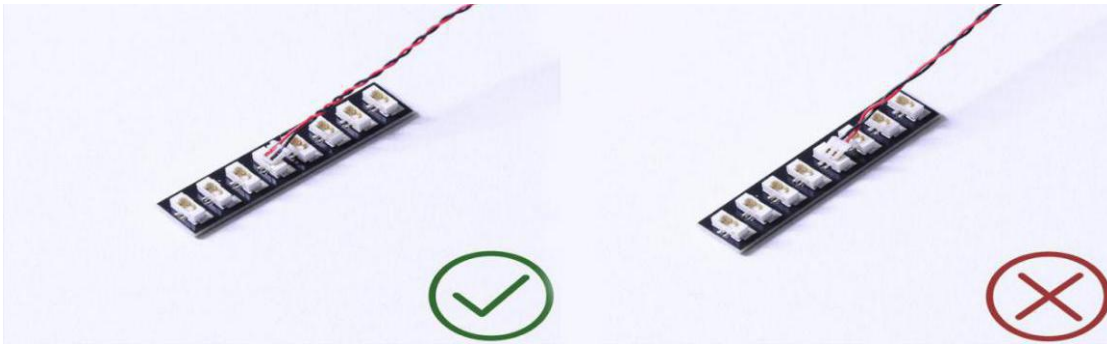
Place wires on the surface or under the building blocks.

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

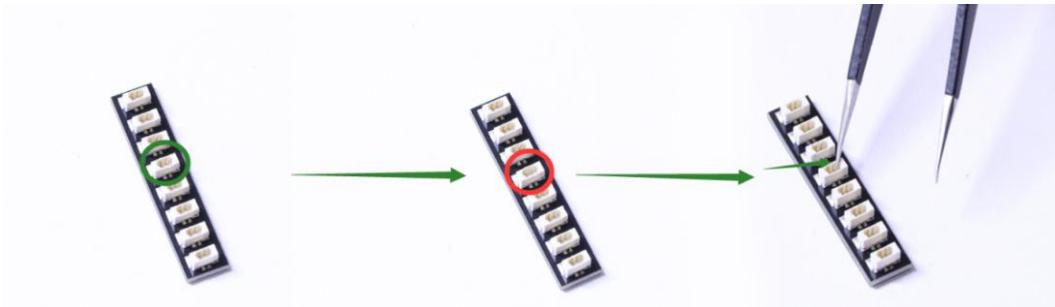


Insert the connectors to the ports.

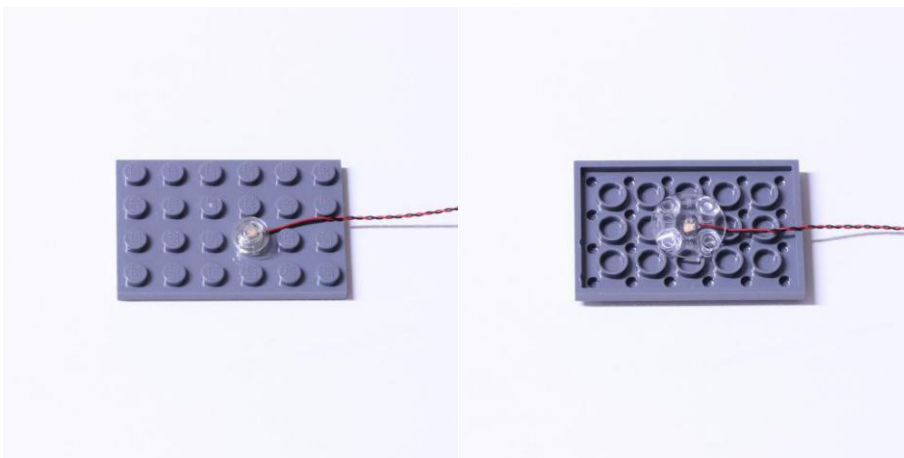
Be careful when you are operating, there's only one correct way to insert, make sure the expansion board is upward, find the soldered "=" sign on the left of the port. When you are inserting, the side which the wires can be seen should be faced to the "=" sign and if you feel hard to insert, please stop,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

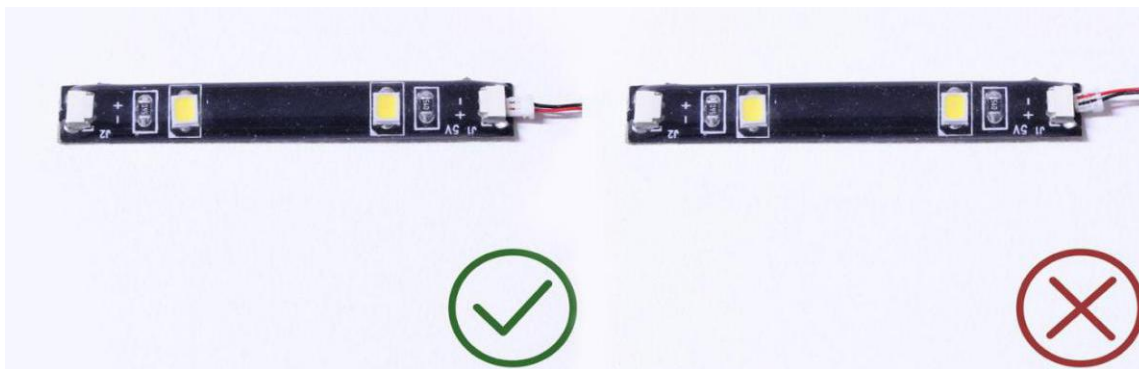


When installing dot lights, make sure they are correctly placed (Yellow LED package is exposed). You can put them either on the top of the studs or between studs.

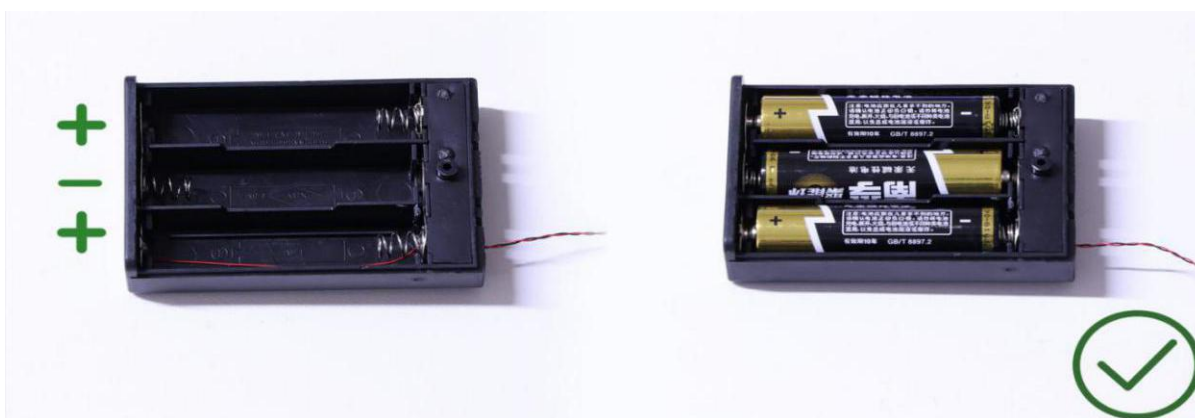


Connecting cable connectors to Strip Lights

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.



Instructions for installing this kit:

Volvo Acousto-optic Control Version, Lighting Kit, 14 bags in total, 13 bags with labels, 1 bag without label, as per below:

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.



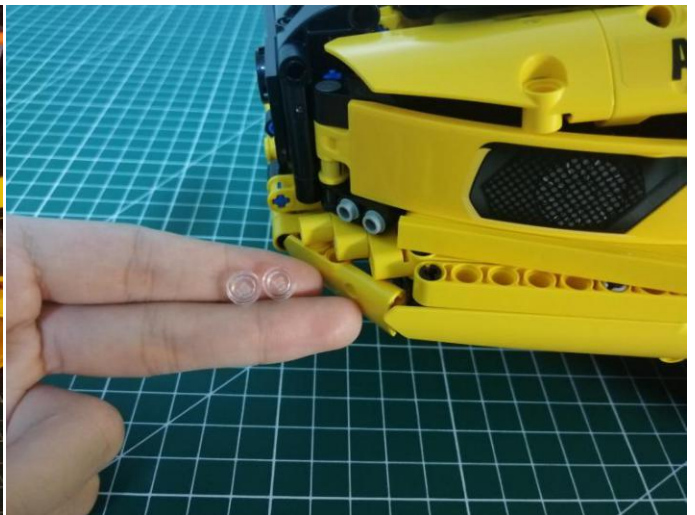
After the verification, disconnect the lights and put them back to the bags.
 (note: put the lights back to the bags when verification of the lights from the same bag is done, then, continue to verify the lights in another bag.)
 OK, Let' s Begin! (you can use the tweezer if necessary.)
 (Tips: the tweezer 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:

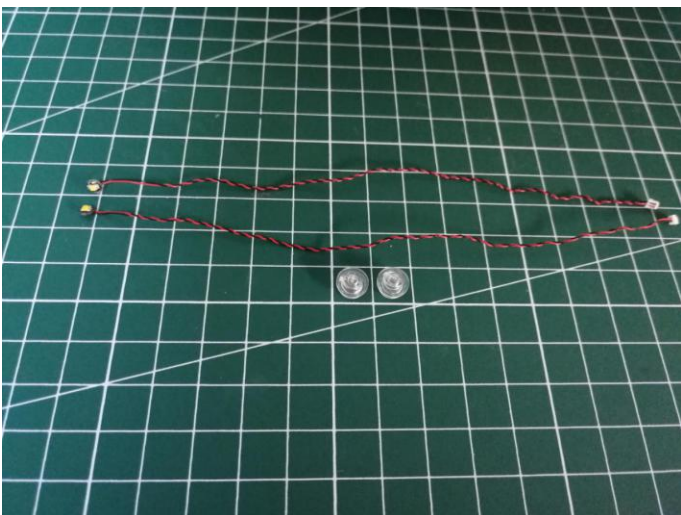
Take the car.



Turn to the head, remove the following 2 trans pieces.



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



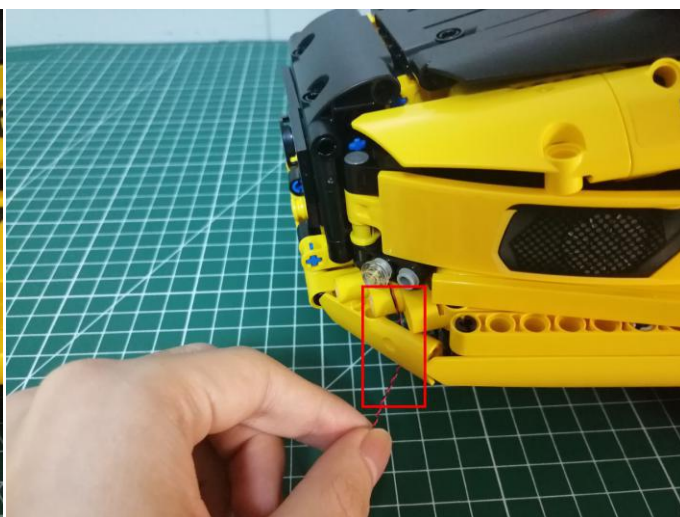
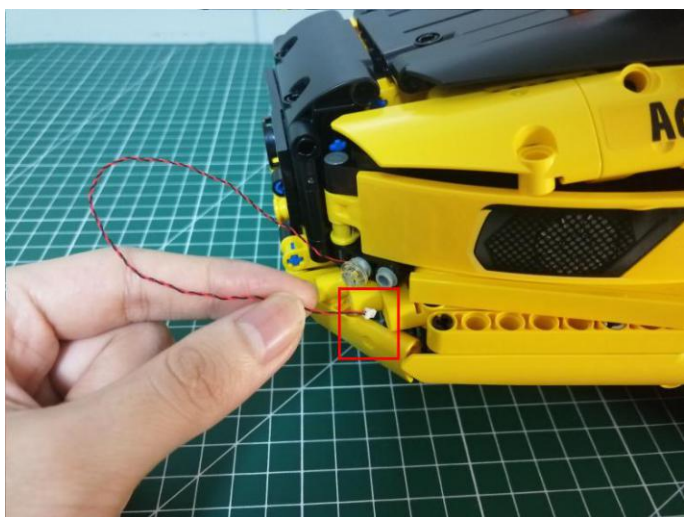
With lighting part facing outside, connect the light to the following place.



Connect the round plate over.



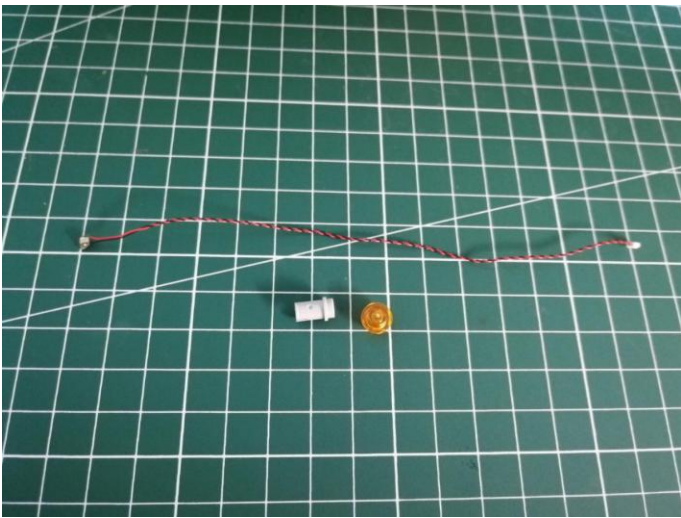
Thread the cable down as per below.



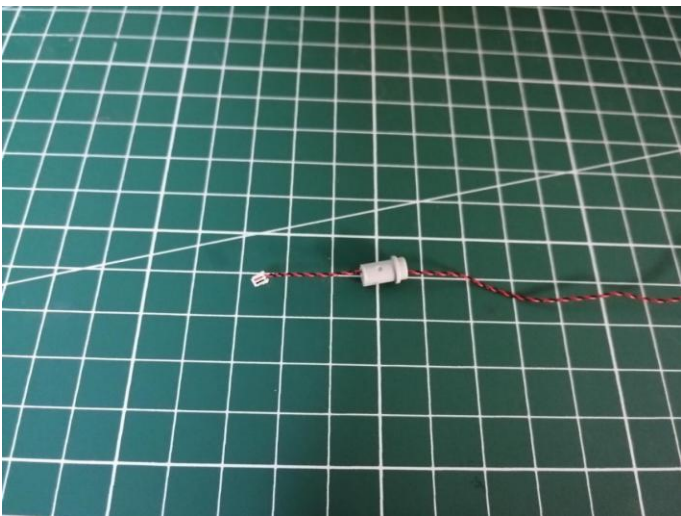
Install the second one in the same way.



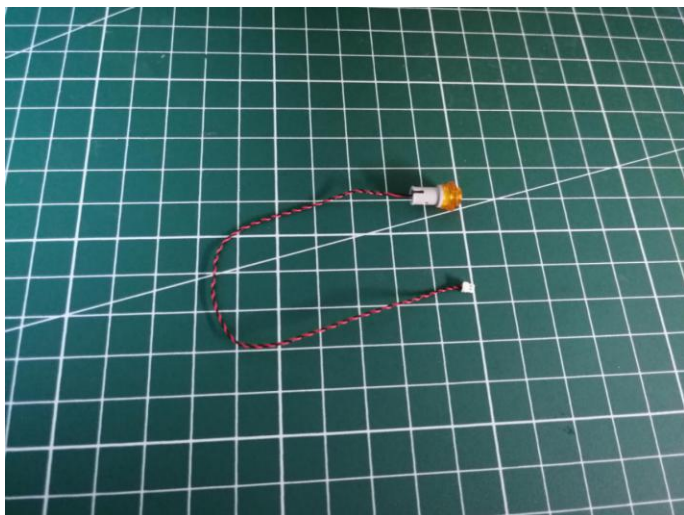
Take a flashing yellow 15cm dot light, a light gray half bolt, a trans orange round plates.



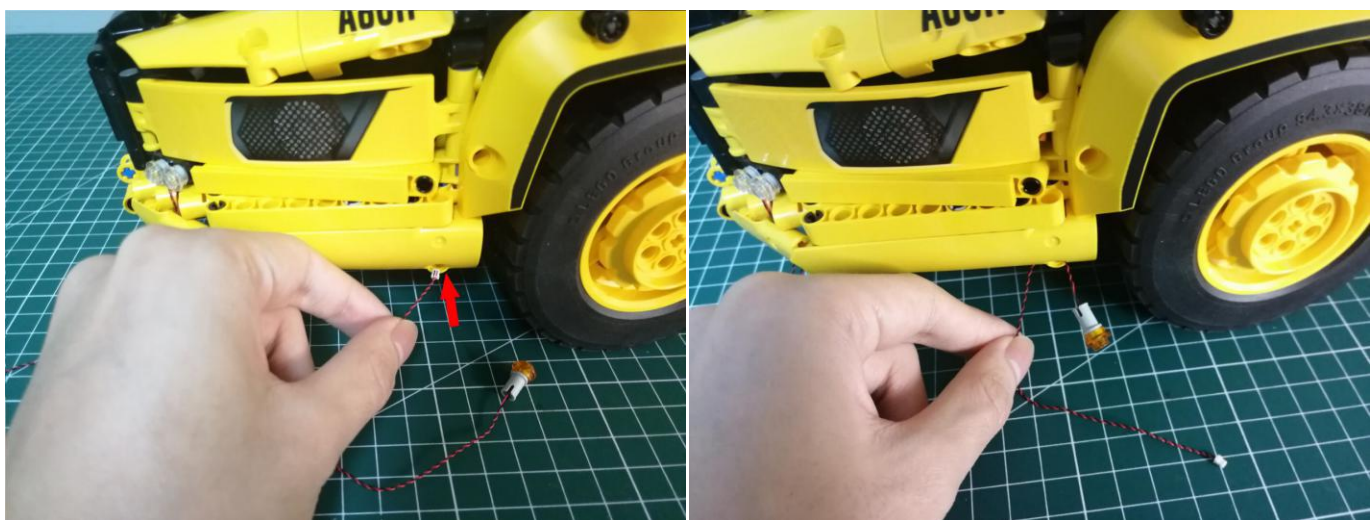
With lighting part facing outside, thread the light through the following half bolt, tighten the cable up.



Connect the round plate over.



Thread the cable through the following hole.



Connect the half bolt inside the hole as per below.



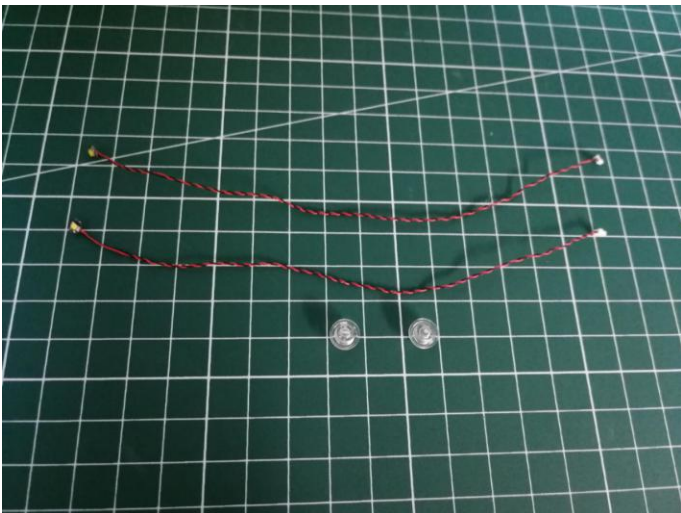
Turn to the other side.



Remove the following 2 trans pieces.



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



With lighting part facing outside, install the light to the following place.



Connect the round plate over.



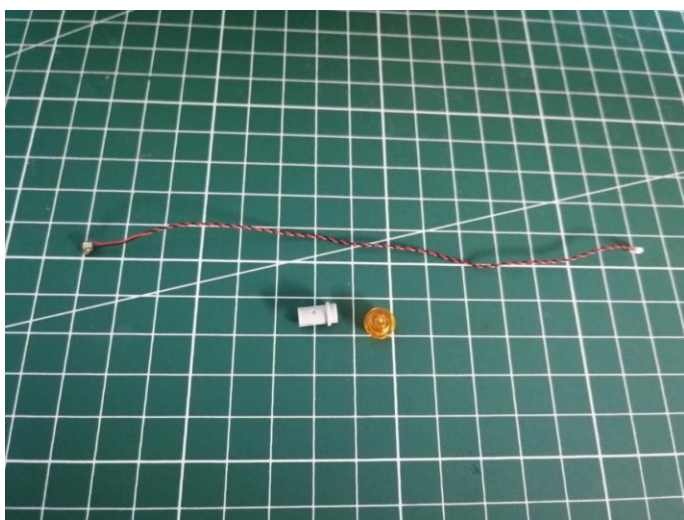
Thread the cable down as per below.



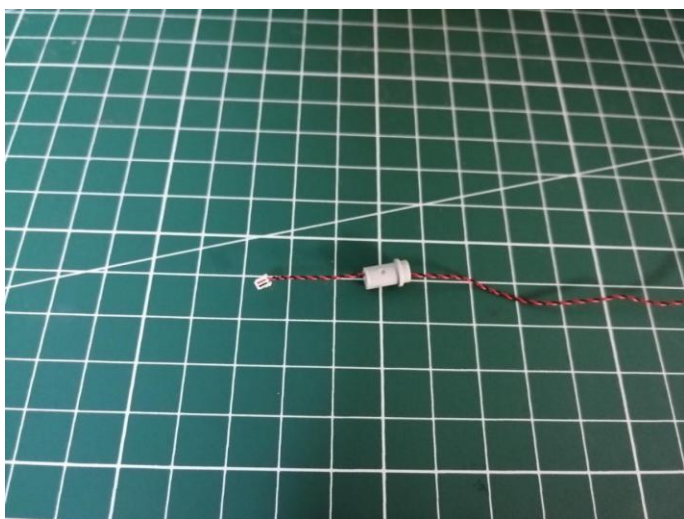
Install the second one in the same way.



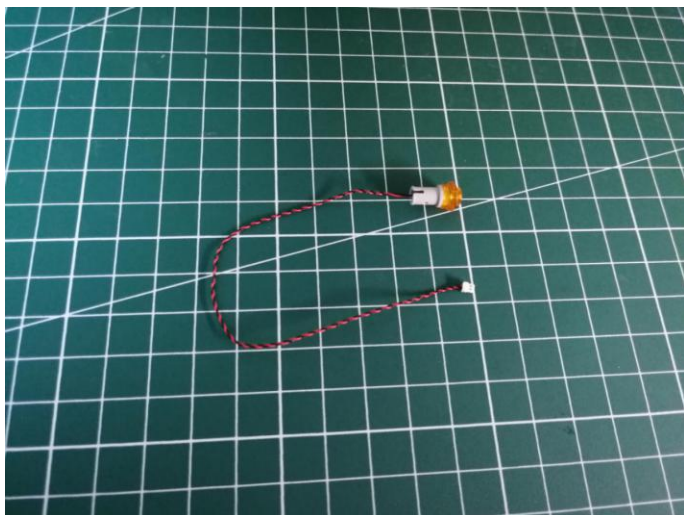
Take a flashing yellow 15cm dot light, a trans orange round plate, a light gray half bolt.



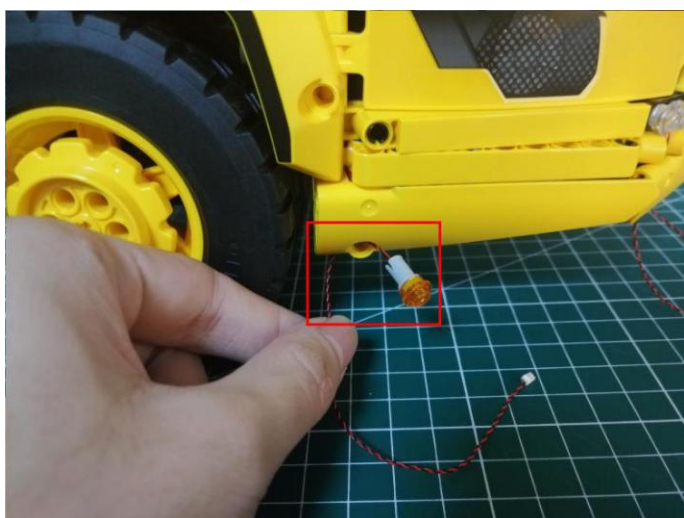
With lighting part facing outside, thread the light through the following half bolt, tighten the cable up.



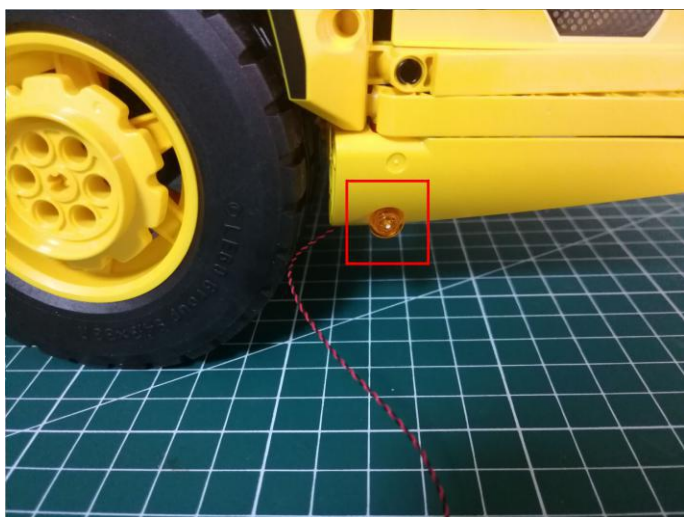
Connect the round plate over.



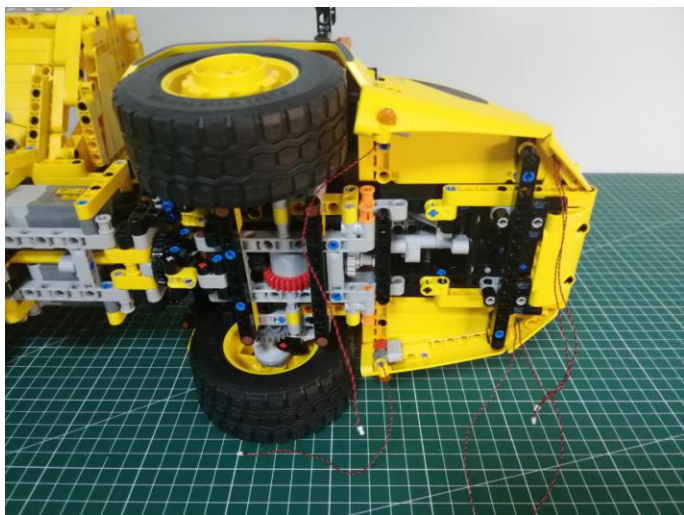
Thread the cable through the following hole.



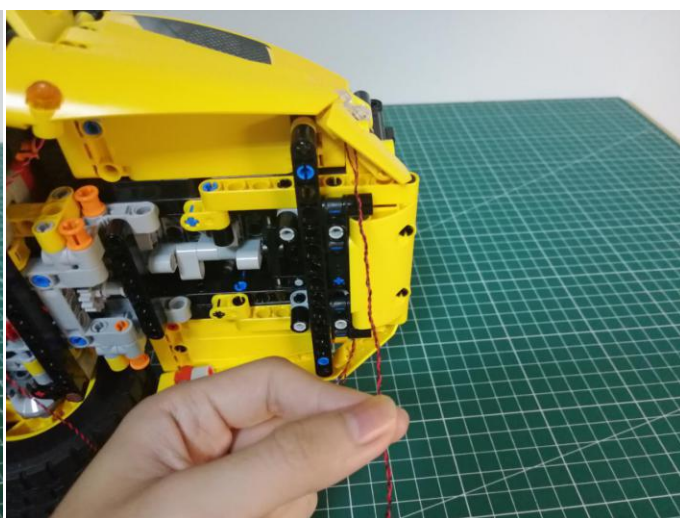
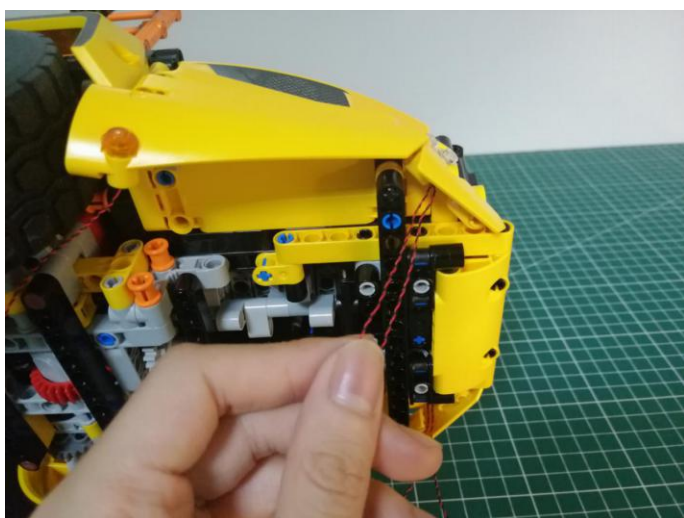
Connect the half bolt inside.



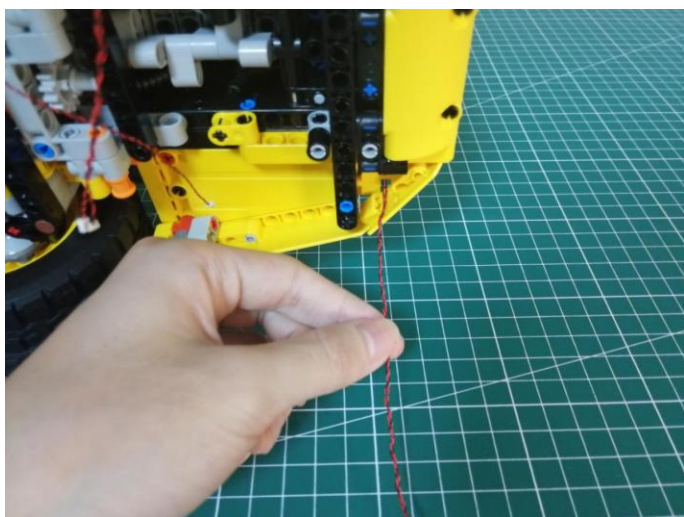
Turn the car over.



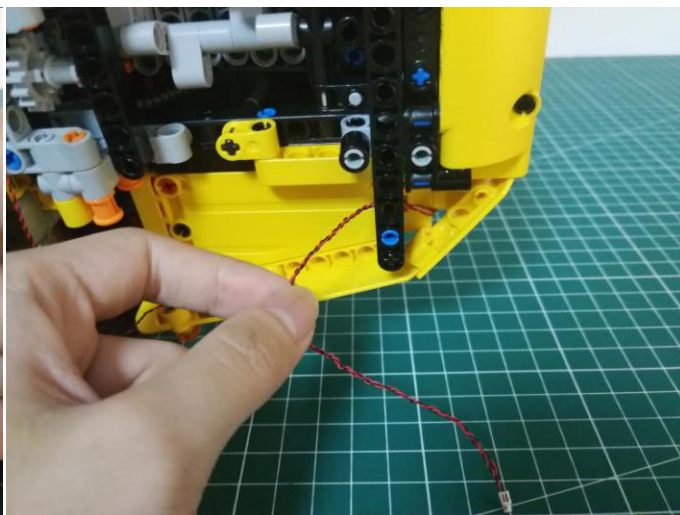
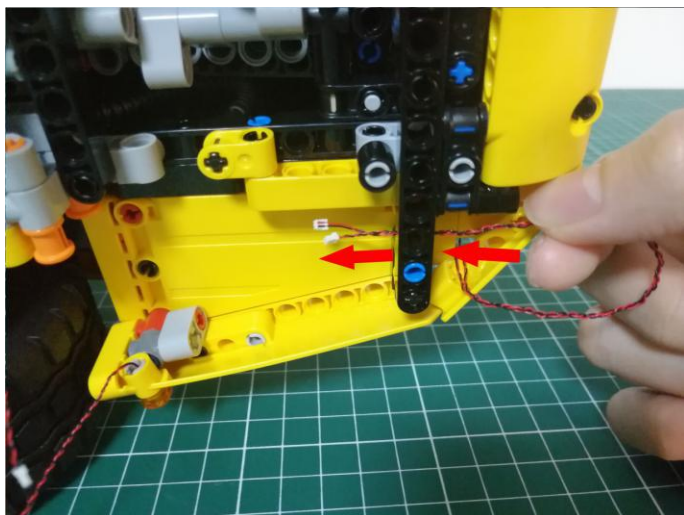
Group the 2 headlights cables together as per below.



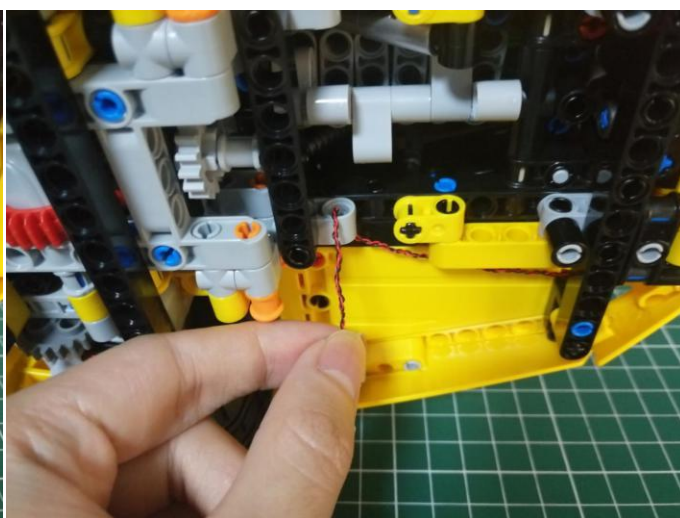
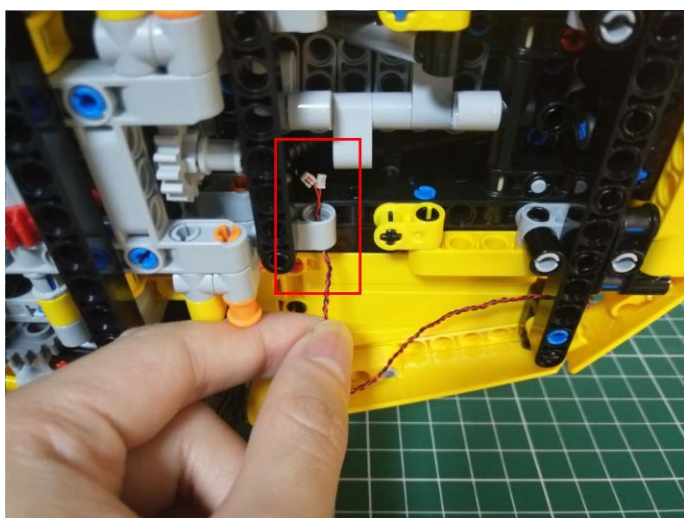
Group the 2 cables underneath similarly.



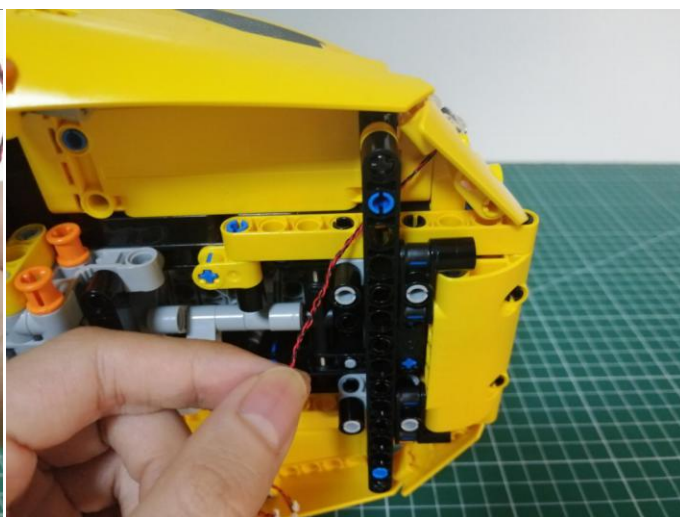
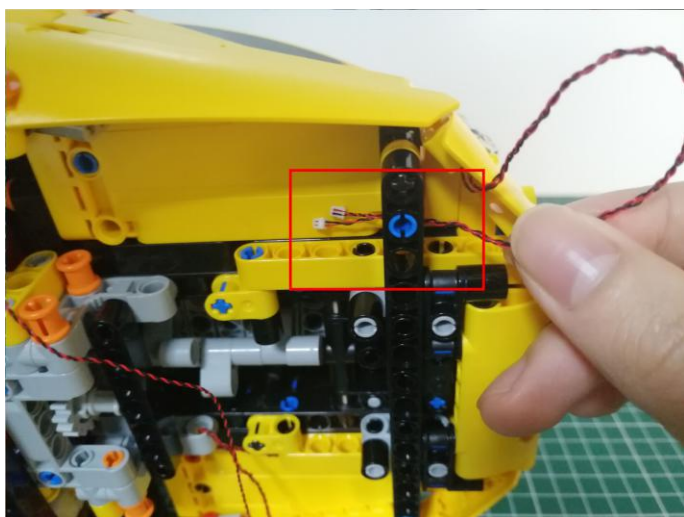
Thread the cables through the following black piece.



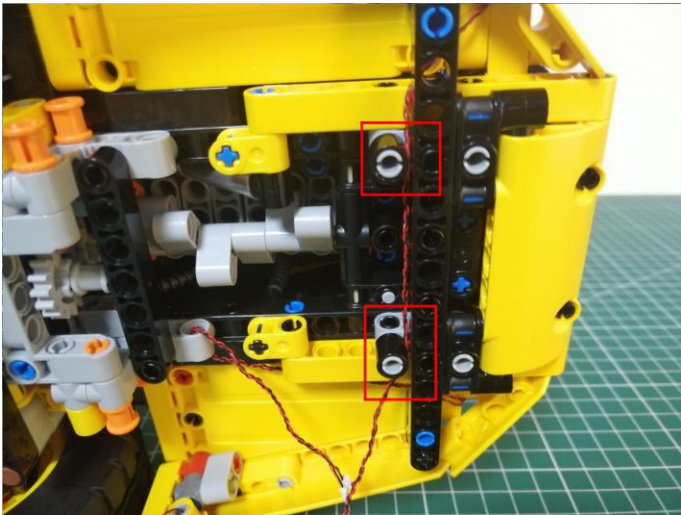
Continue to thread the cables through the following gray hole, tighten the cables up.



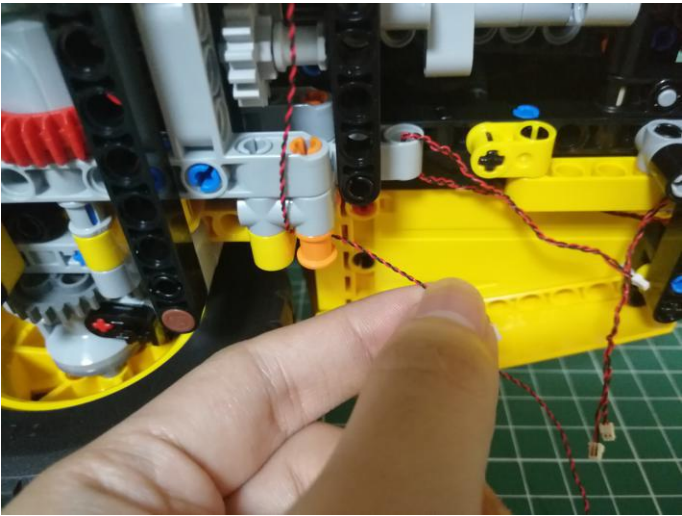
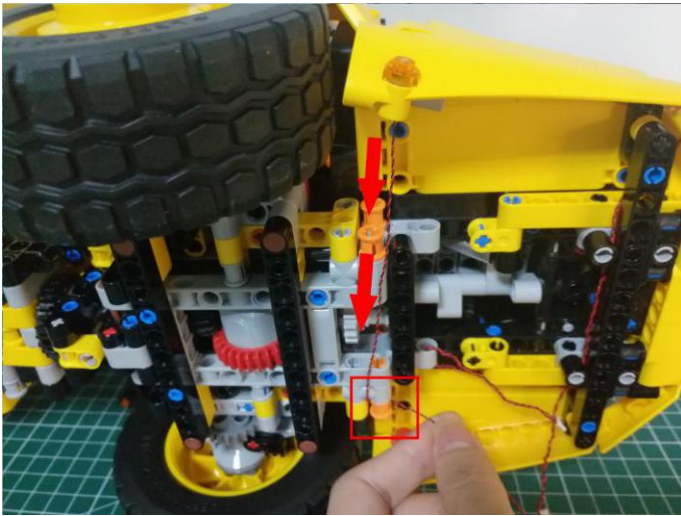
Thread the 2 cables above through the following black piece as well.



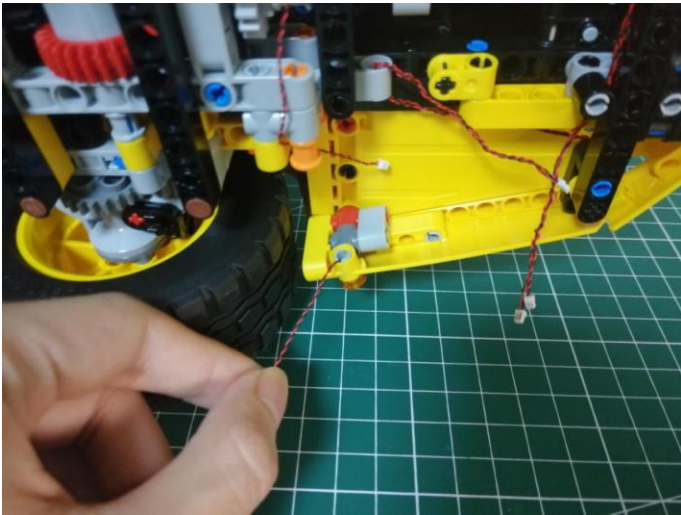
Pull the cables down and stuck them at the following place.



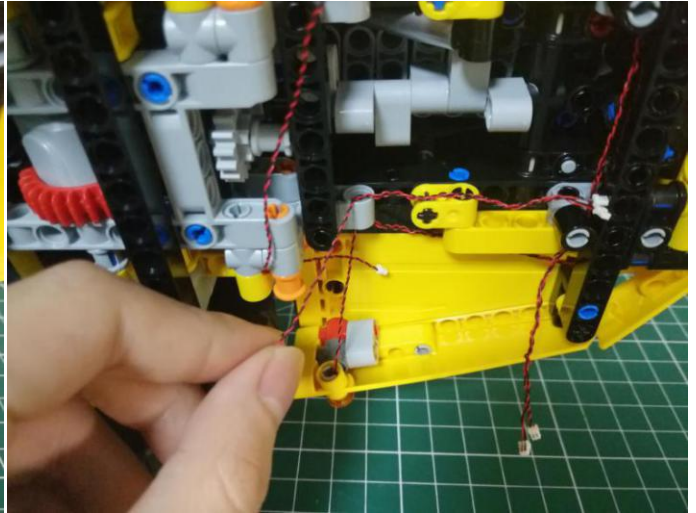
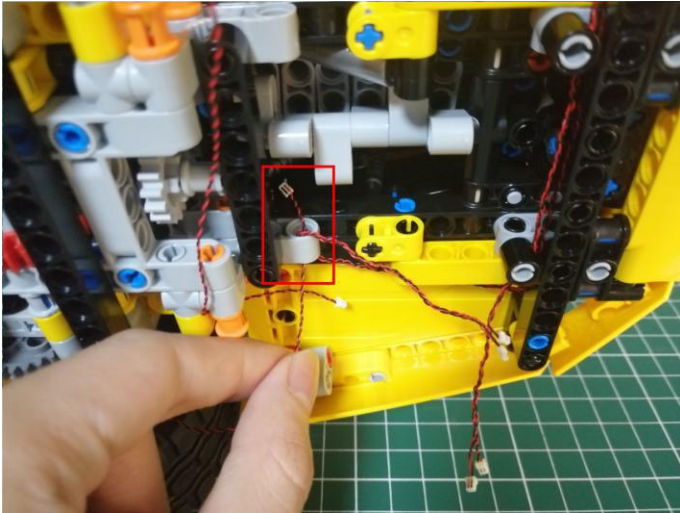
Pull the following cable down and wind it around the piece.



Take the following cable.



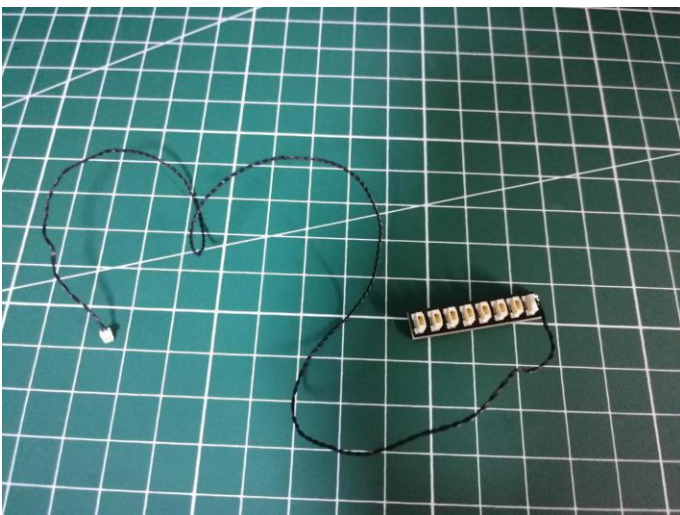
Thread it through the following gray hole, tighten it up.



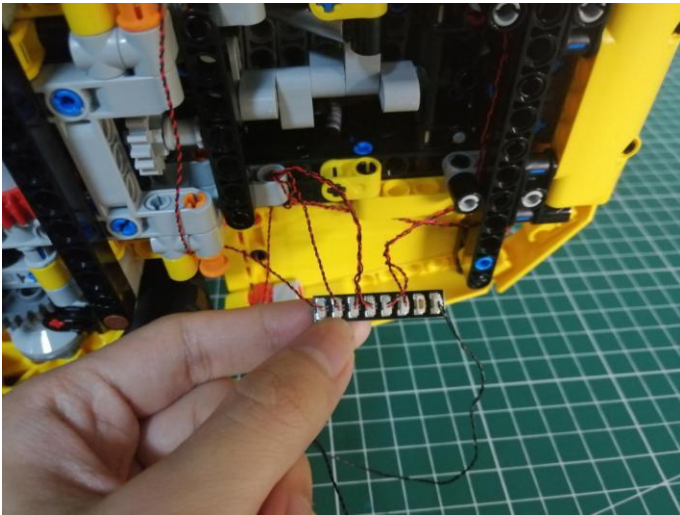
Take an 8-port expansion board, a 30cm connecting cable.



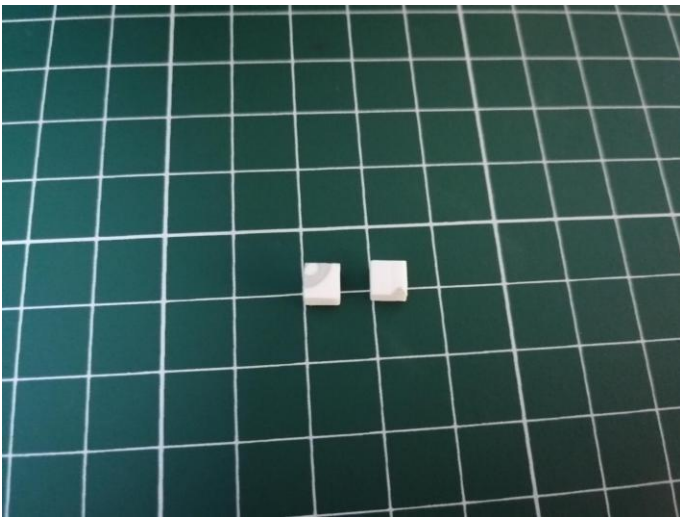
Assemble them as per below.



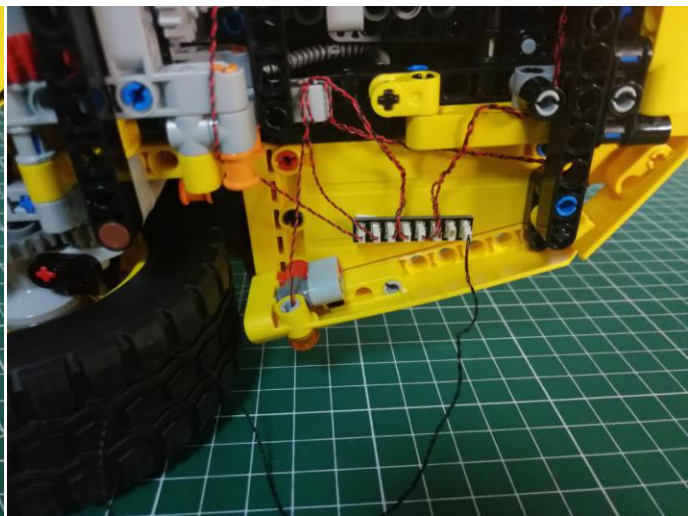
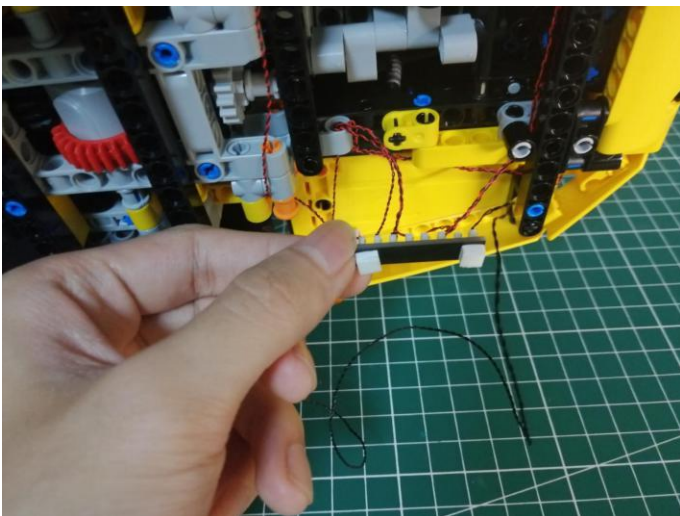
Connect the cables underneath the head to the expansion board.



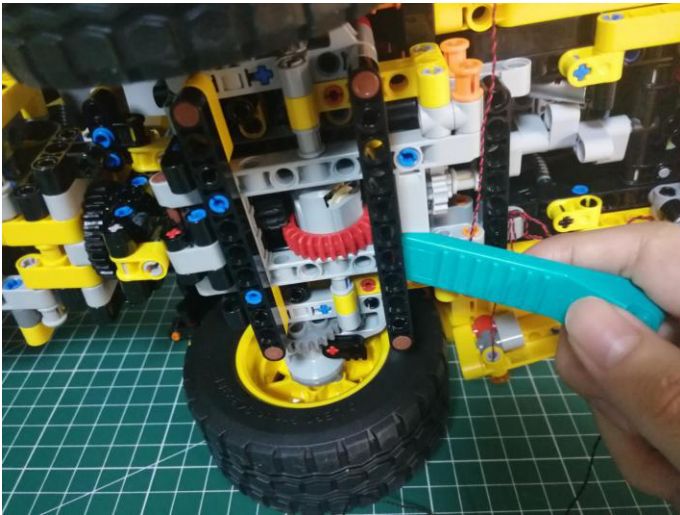
Take 2 adhesive squares.



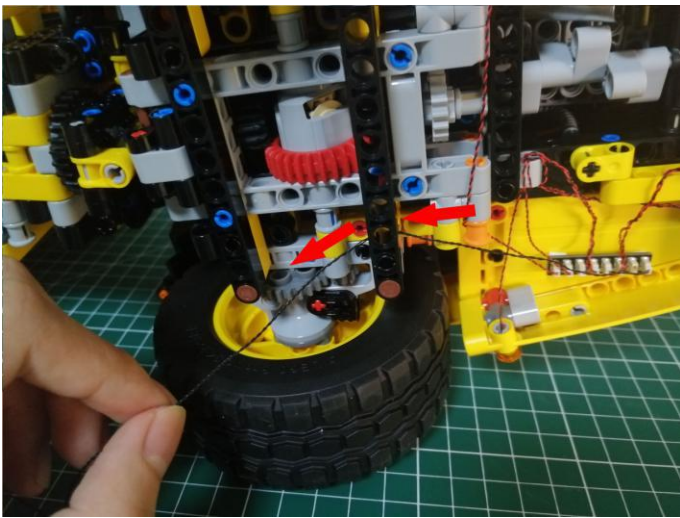
Stick them to the back of the expansion board, and stick the expansion board to the following place.



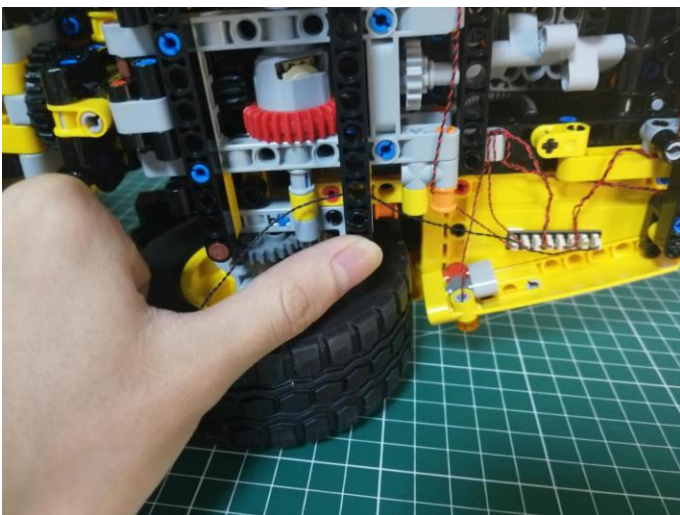
Create a gap at the following place with the tool.



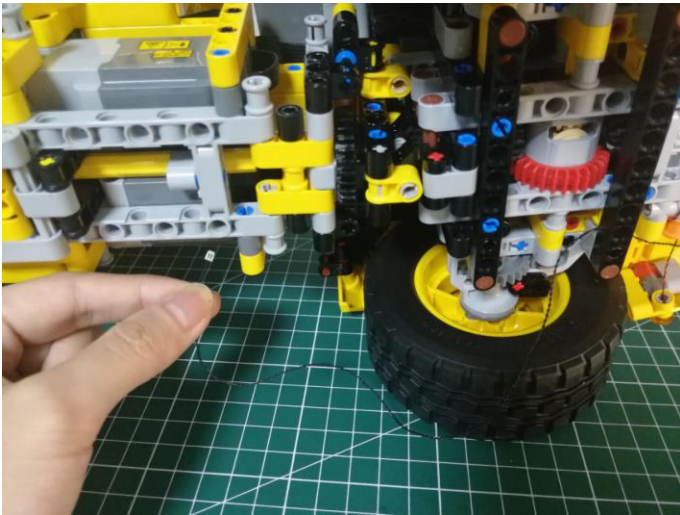
Thread the 30cm connecting cable from the expansion board through the following black piece.



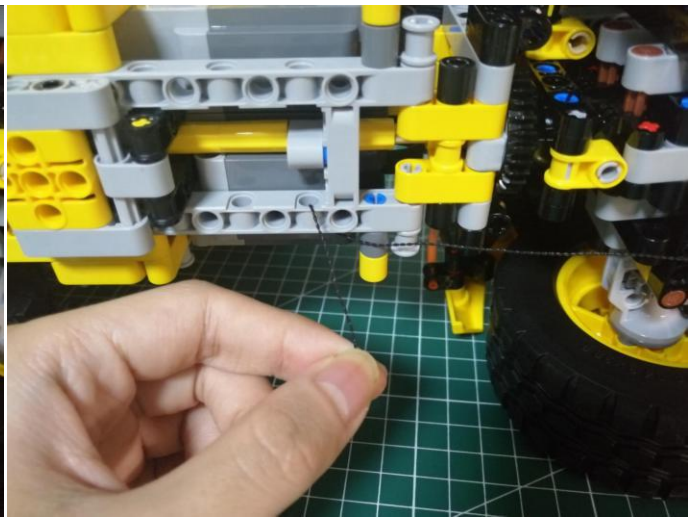
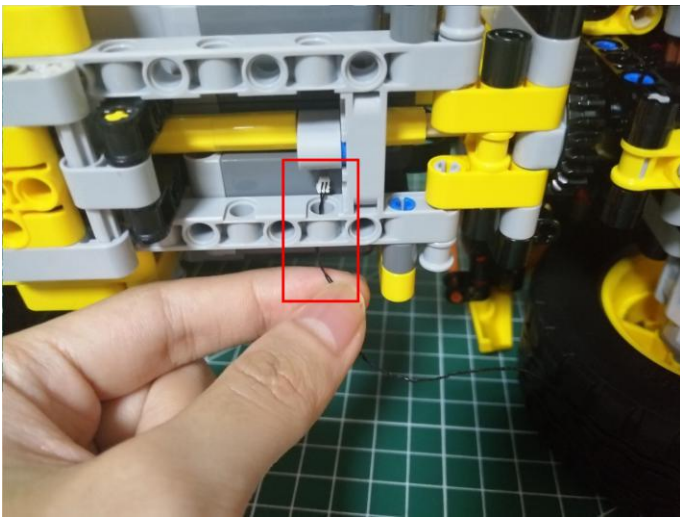
Reconnect the black piece.



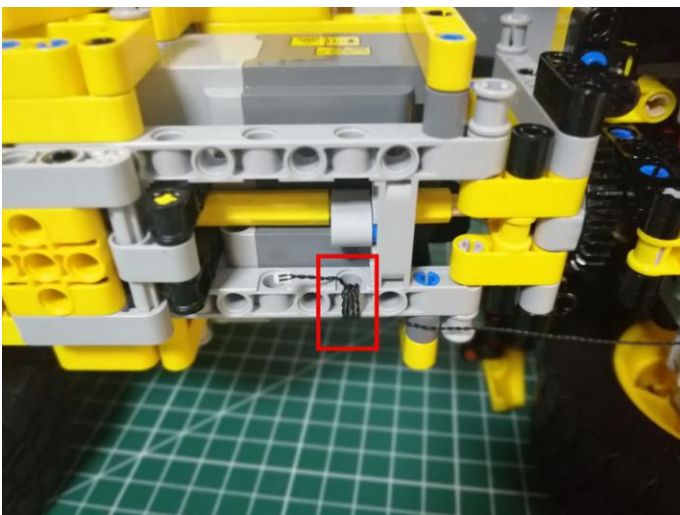
Pull the cable to the following place.



Thread it through the following gray hole, and tighten it up.



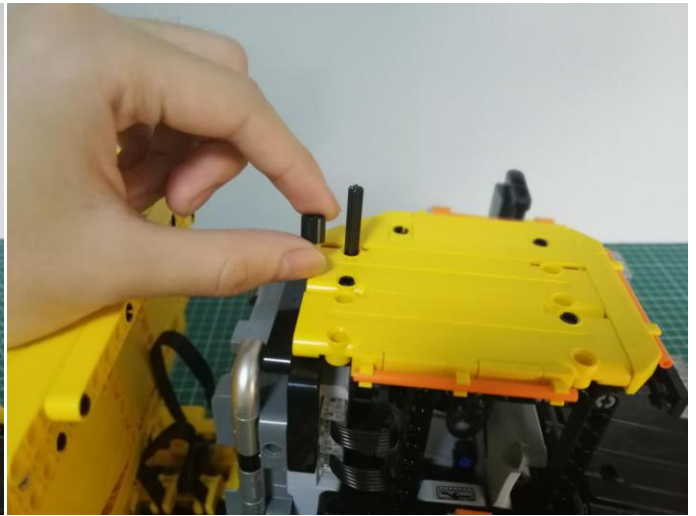
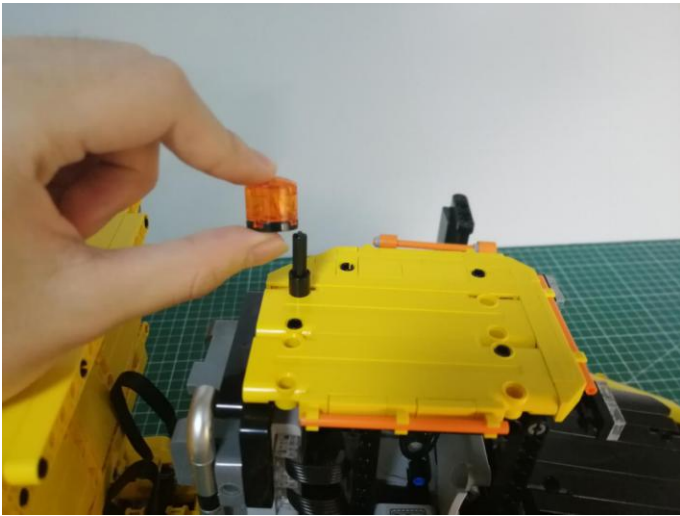
Wind it around the piece several times.



Turn the car back.



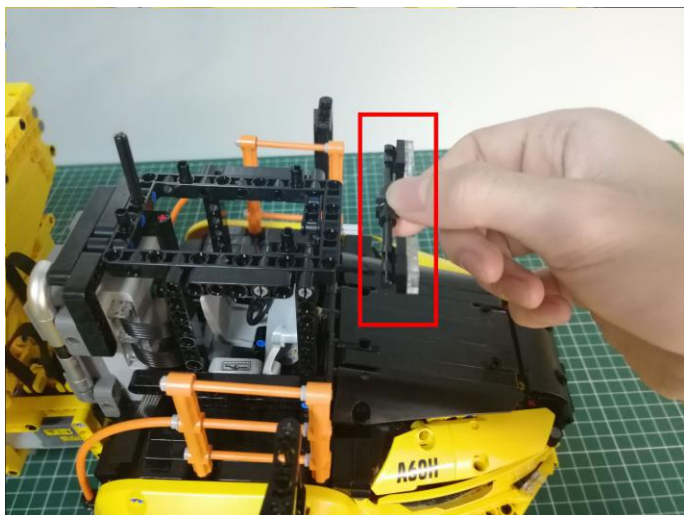
Remove the signal light from the roof.



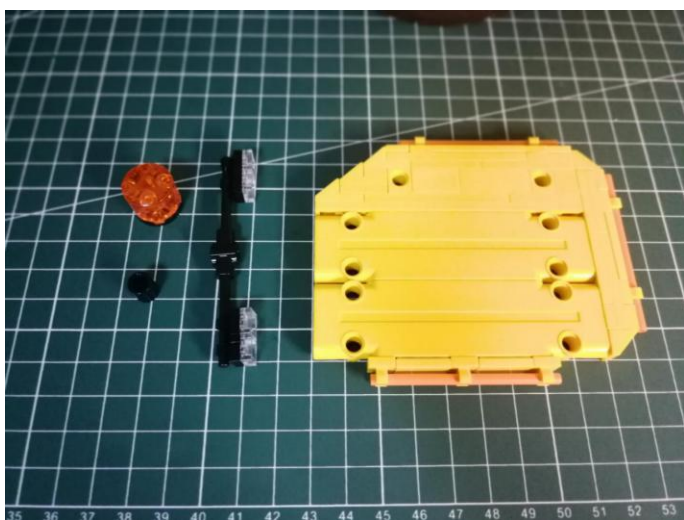
Remove the roof piece.



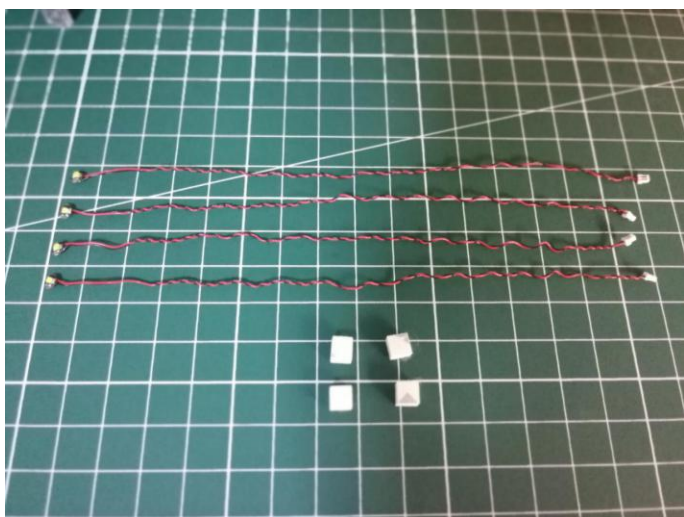
Continue to remove the following roof light.



The pieces we removed are as per below.



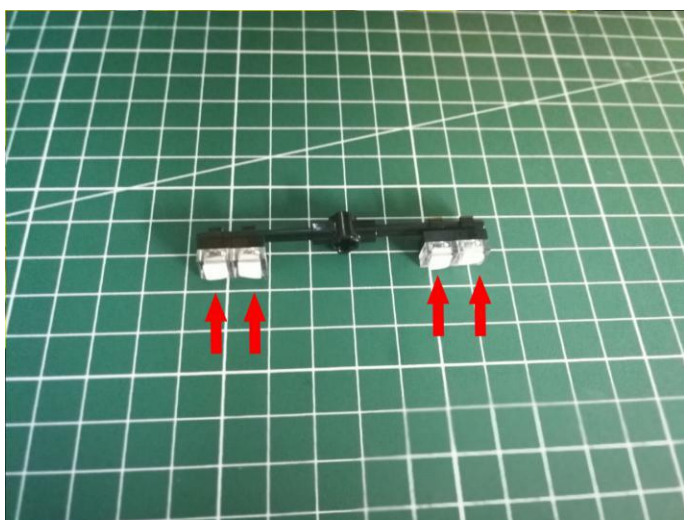
Take 4 white 15cm dot lights, 4 adhesive squares.



Take the following piece.



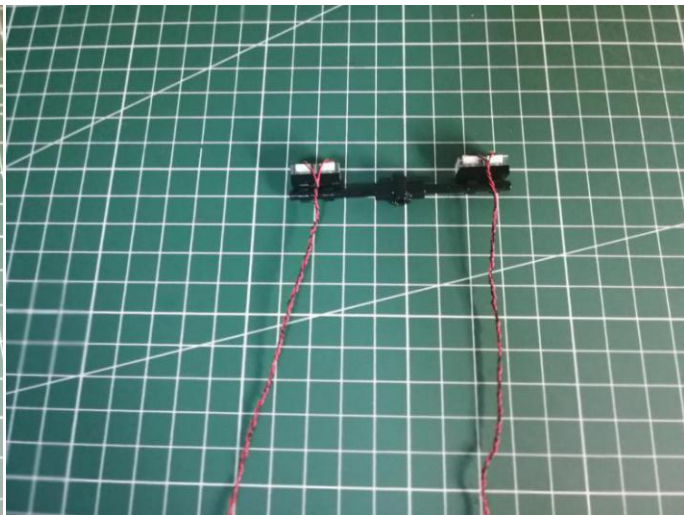
Stick the 4 adhesive squares to the 4 trans white bricks as per below.



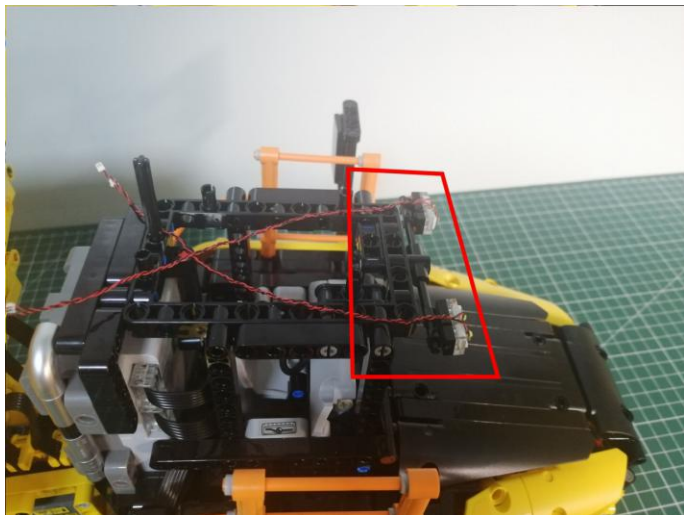
With lighting part facing outside, stick the 4 lights to them.



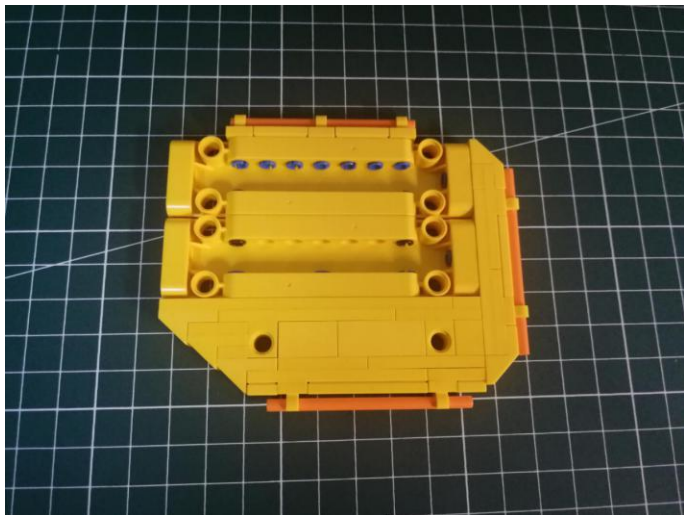
Group every 2 cables together as per below.



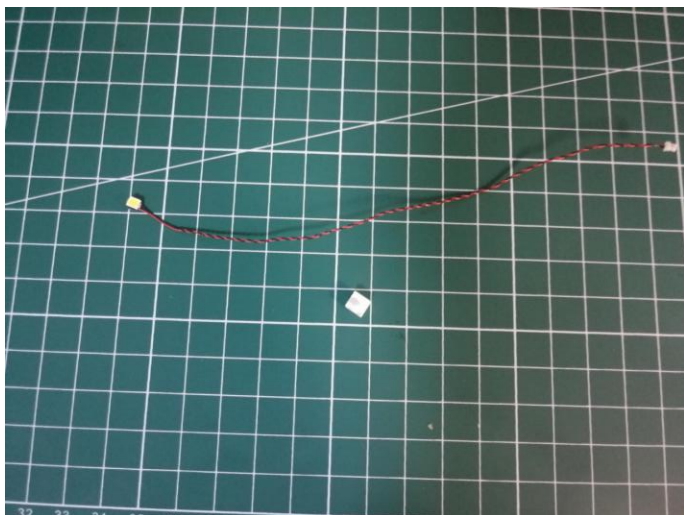
Reconnect the roof lights.



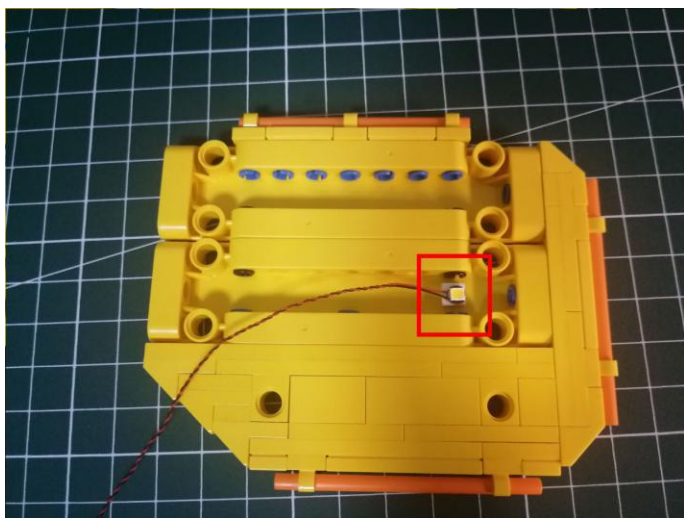
Take the roof piece.



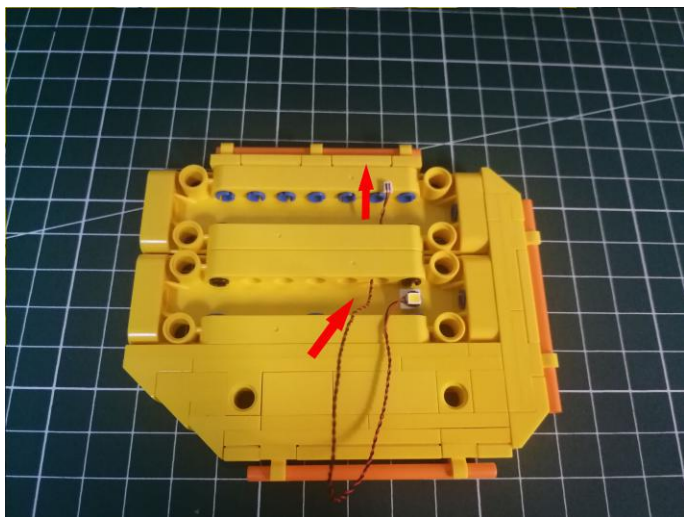
Take a 15cm head light, an adhesive square.



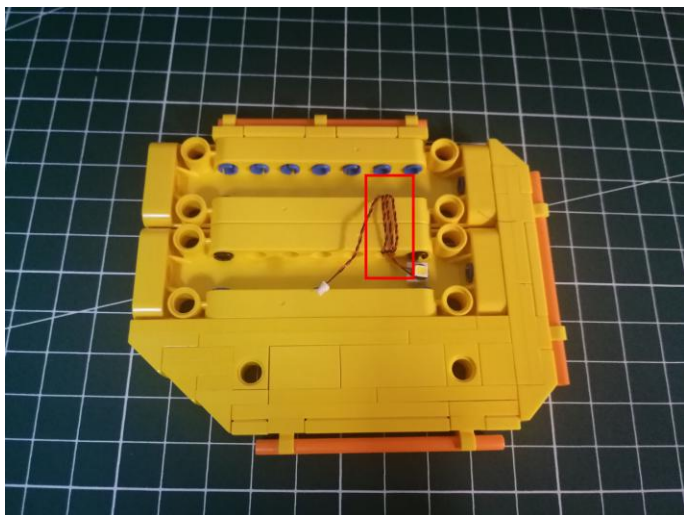
With lighting part facing outside, stick the light to the following place.



Thread the cable through the following hole.



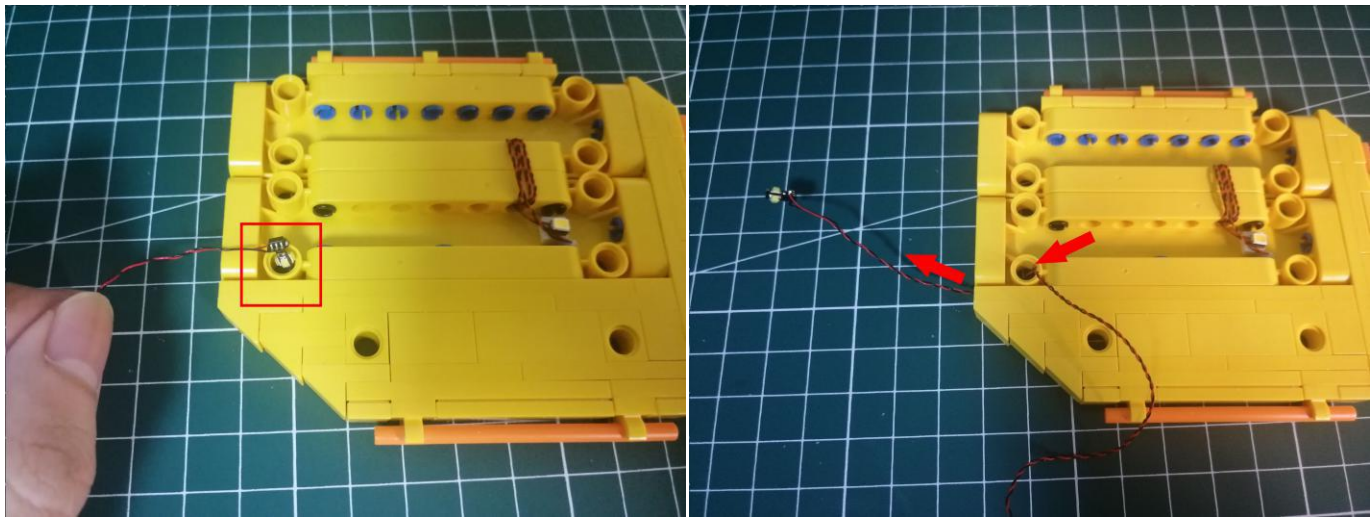
Wind the cable around the following piece several times.



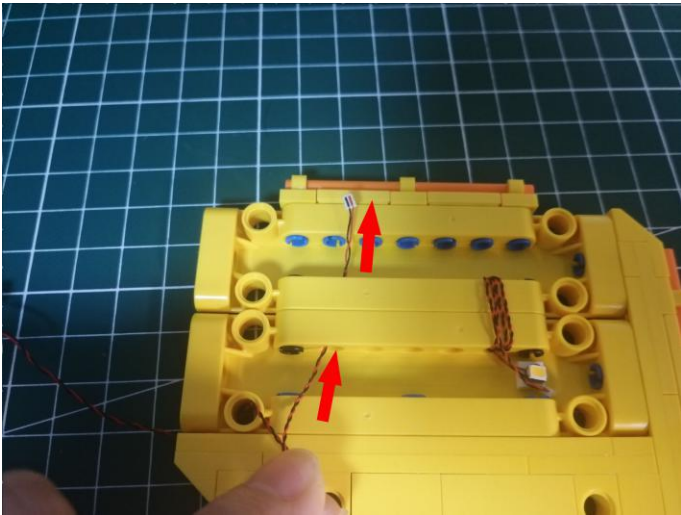
Take a rotating light.



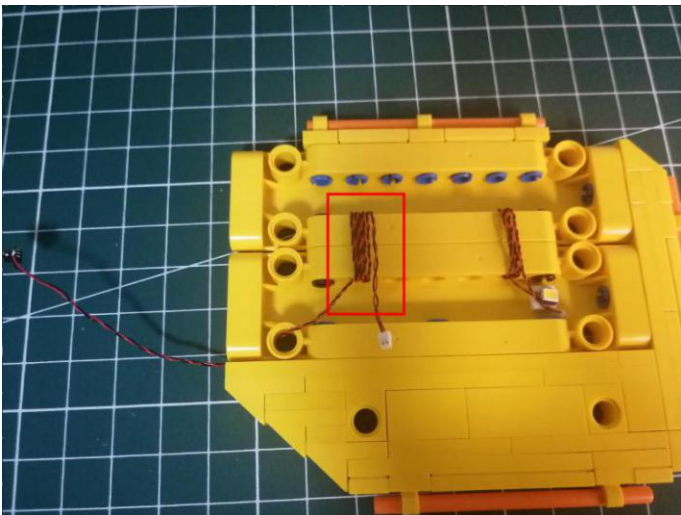
Thread the light through the following space.



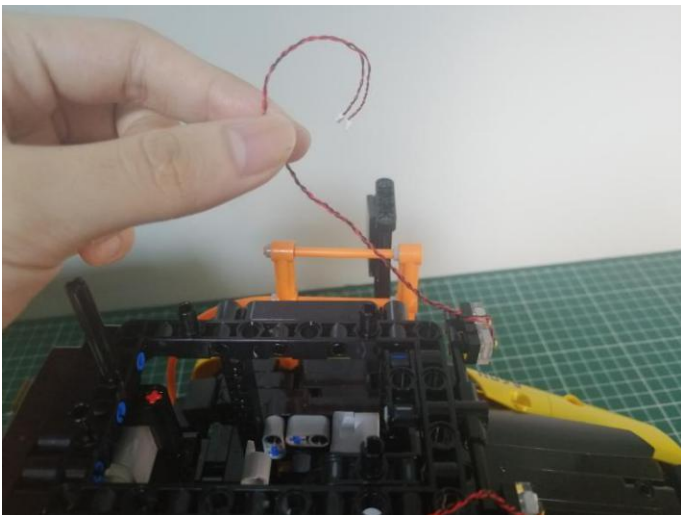
Thread the cable through the following hole.



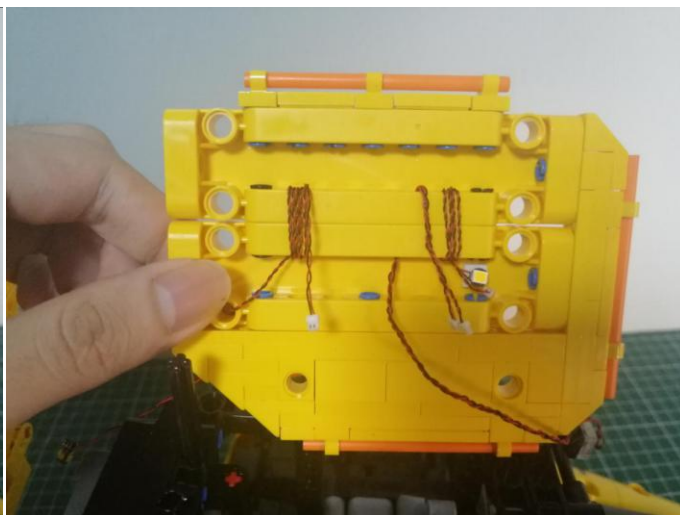
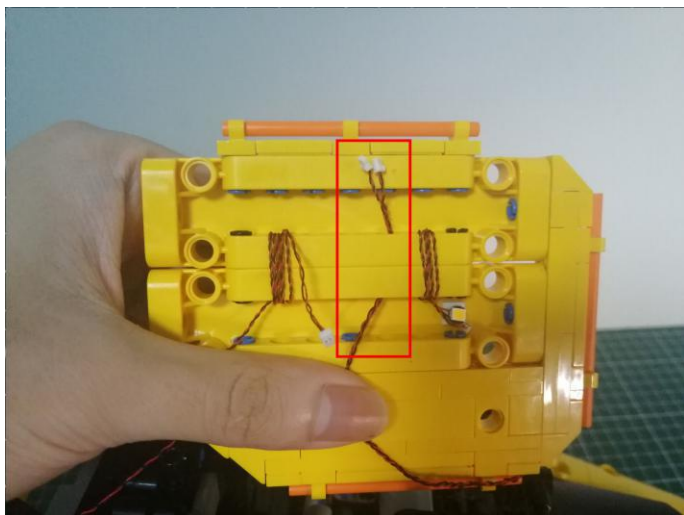
And wind the it around the following piece several times. 将



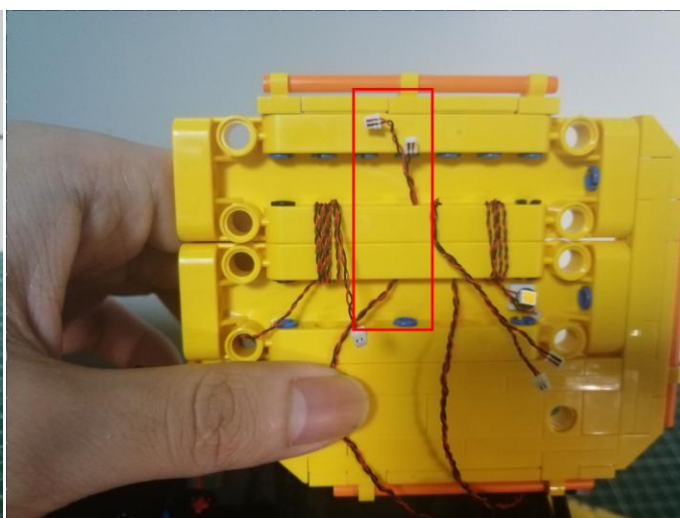
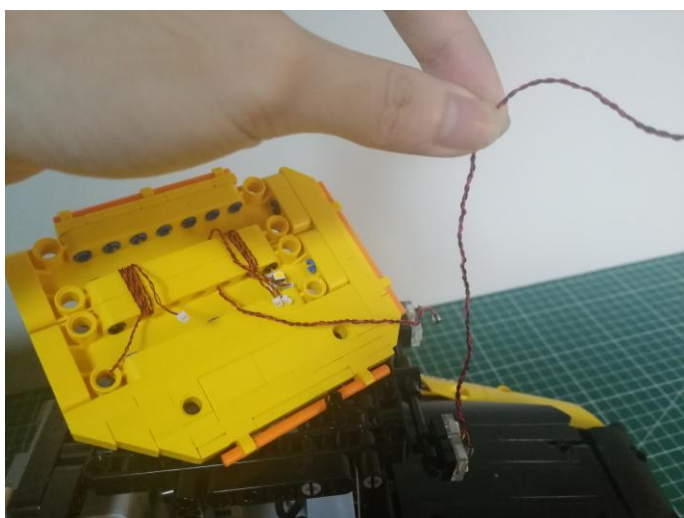
Take the cables from the roof lights.



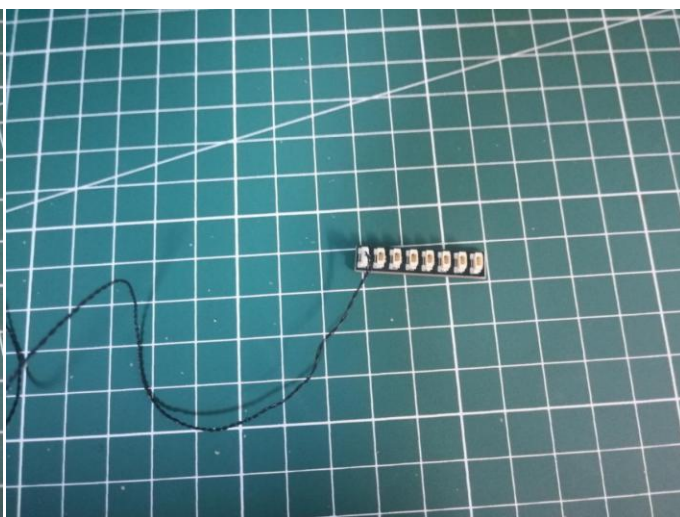
Thread them through the following hole on the roof.



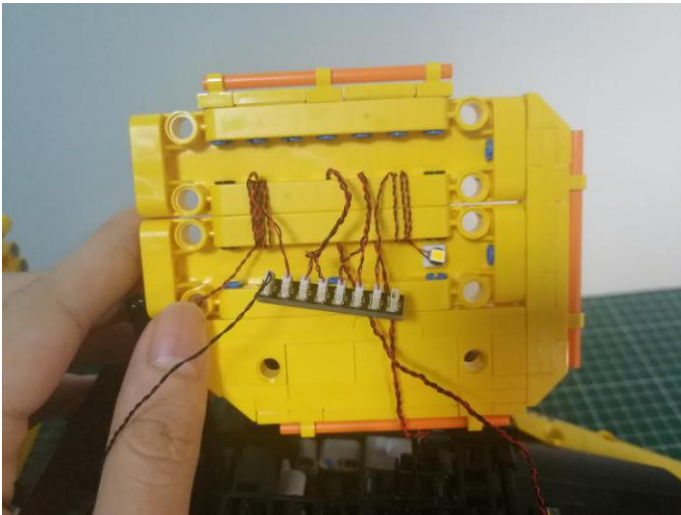
Thread the other 2 cables through similarly.



Take an 8-port expansion board, a 30cm connecting cable.



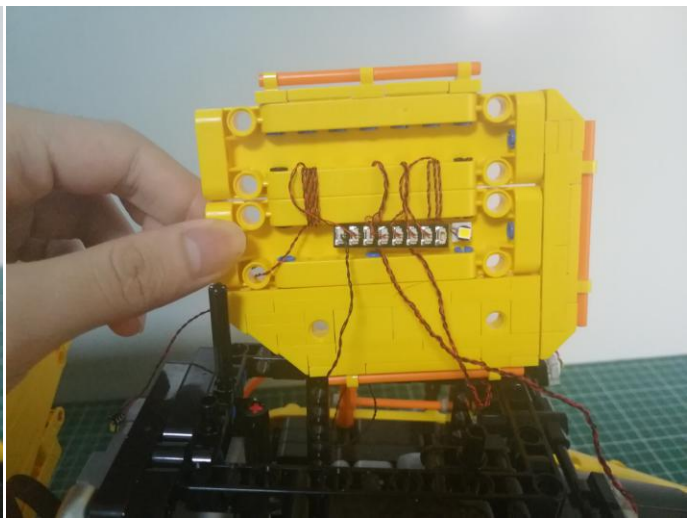
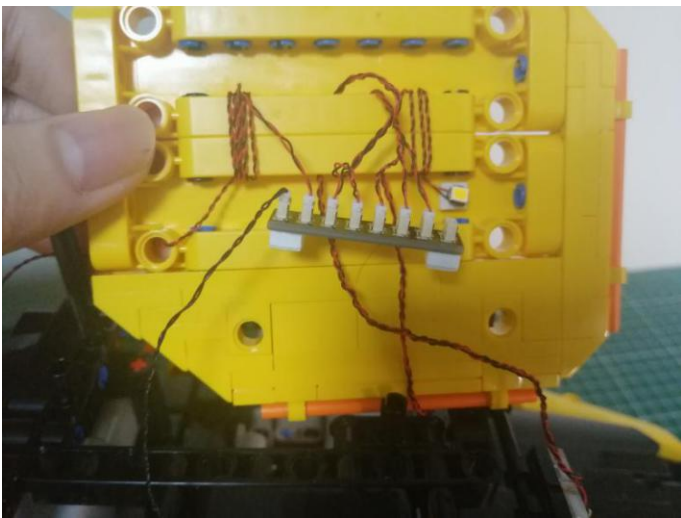
Connect the cables from the roof to the expansion board.



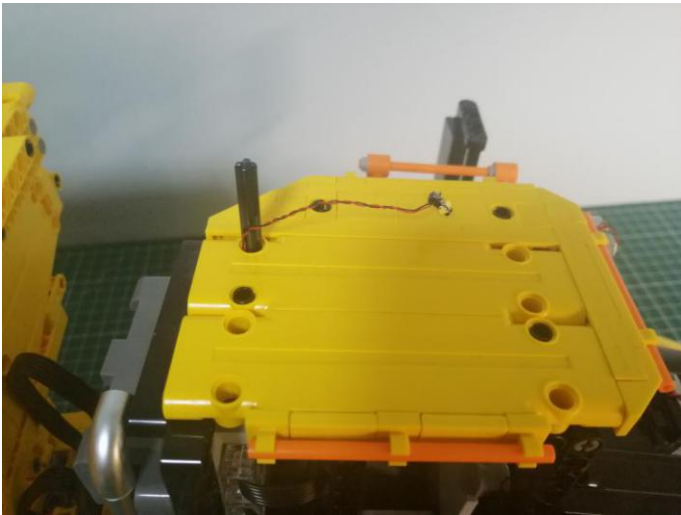
Take 2 adhesive squares.



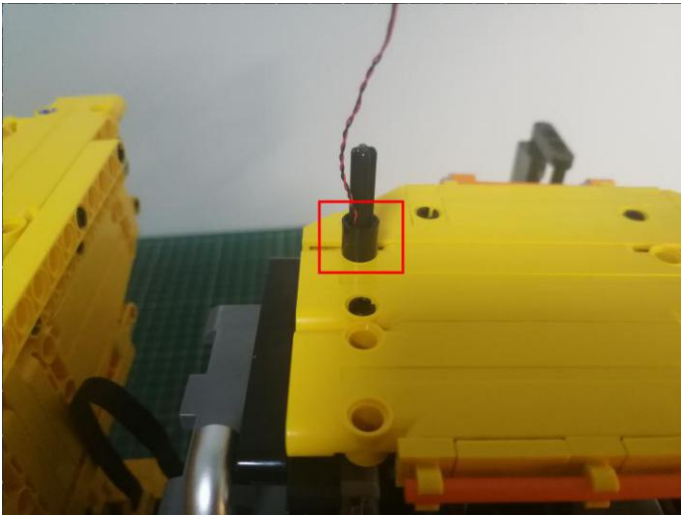
Stick them to the back of the expansion board, and stick the expansion board to the following place.



Reconnect the roof.



Thread the cable through the following black piece.



Take the signal light piece, and disassemble it.



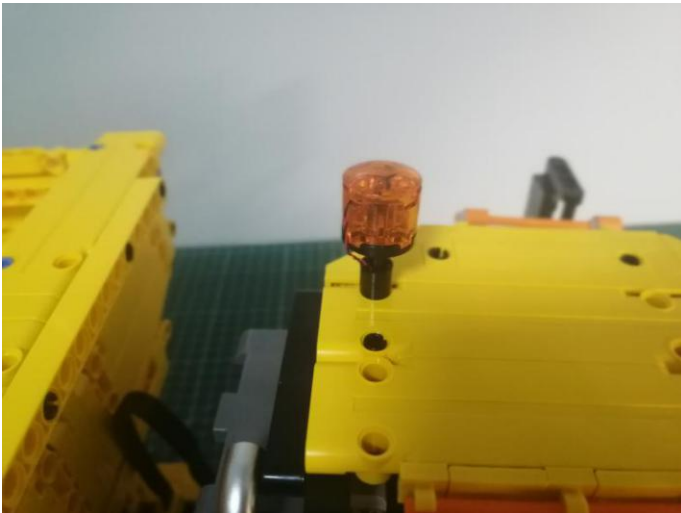
Reconnect the following piece.



Connect the rotating light inside.



Reconnect the pieces.



Turn to the other side.



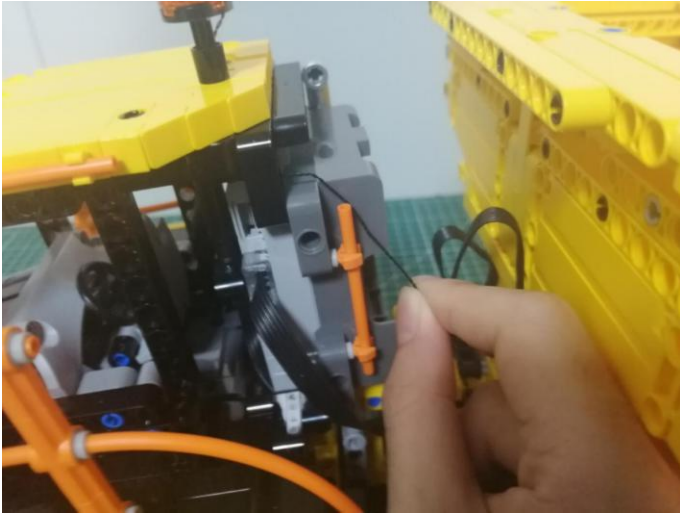
Take the following cable from the roof.



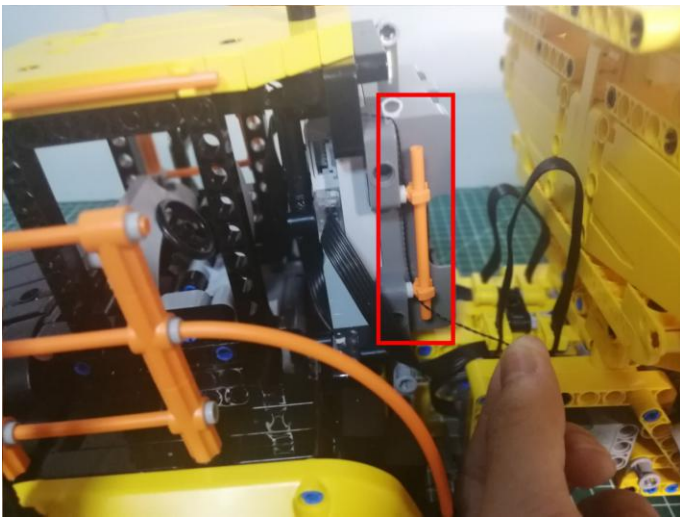
Thread it through the following black piece.



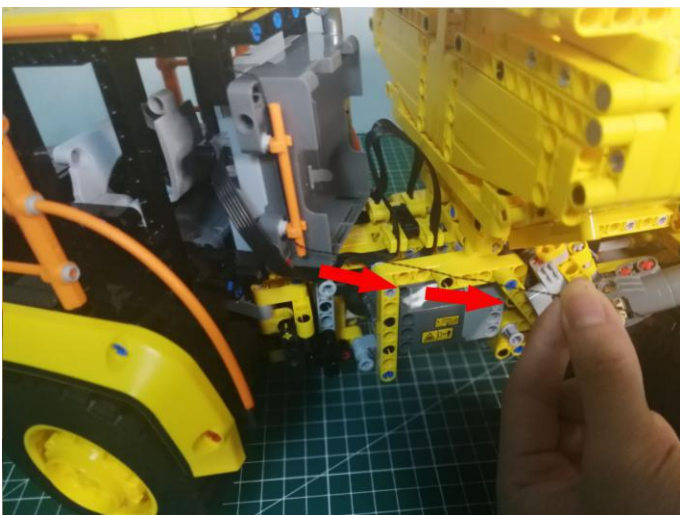
Tighten it up.



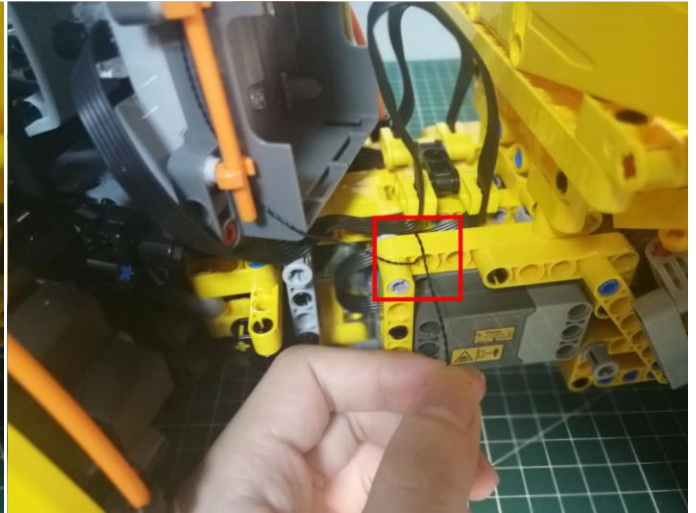
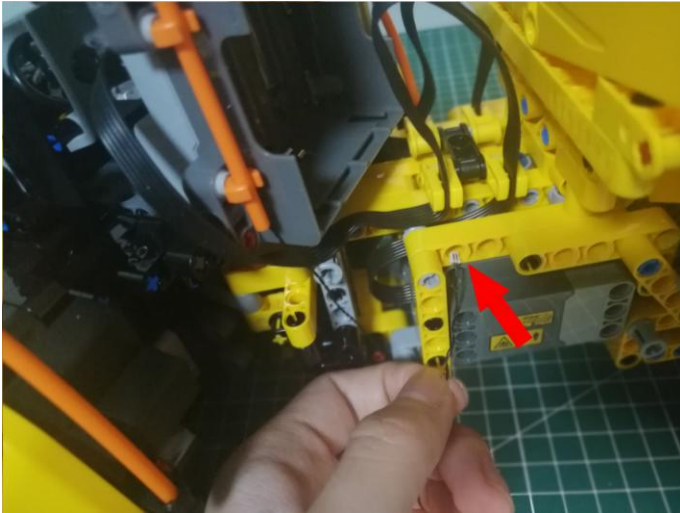
Stuck the connecting cable to the following place.



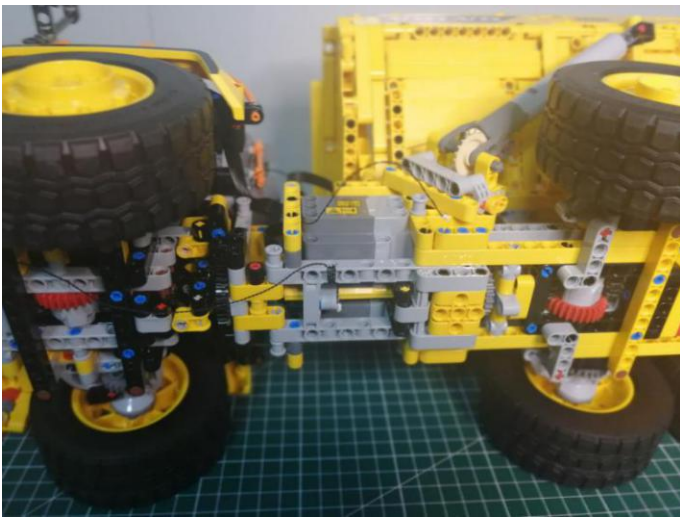
Pull the cable behind.



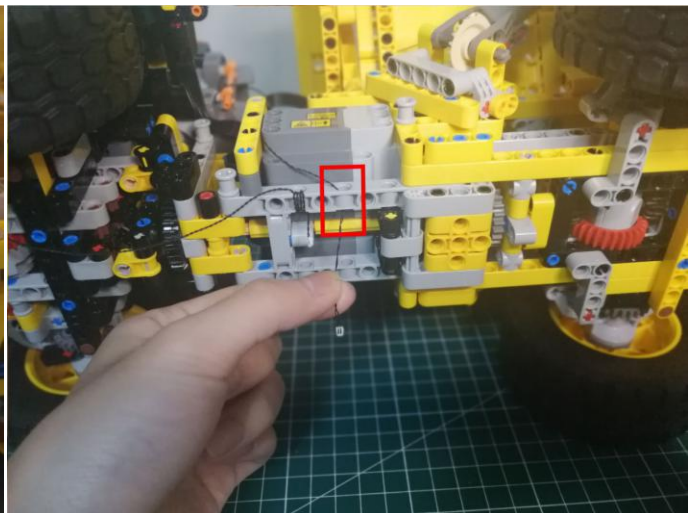
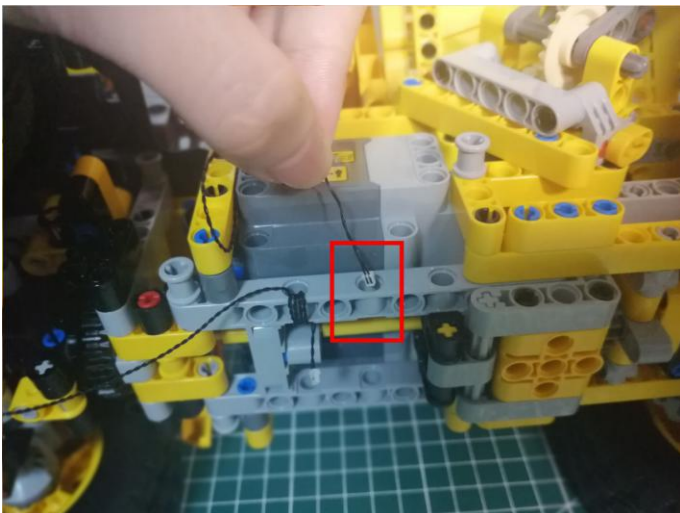
Thread it through the following hole.



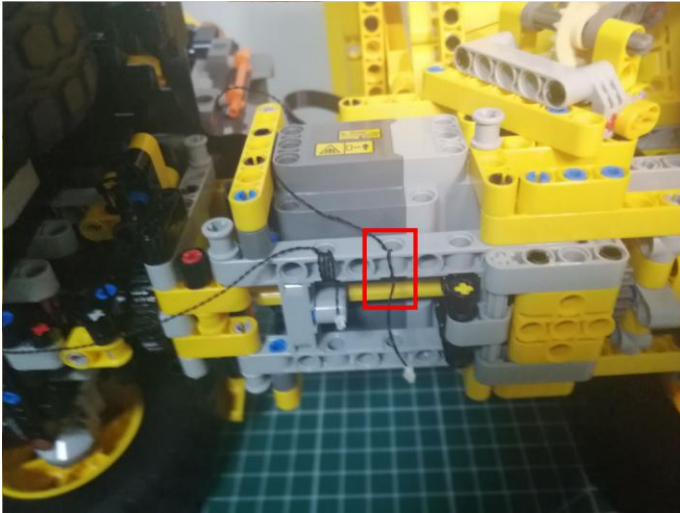
Turn to the car over.



Thread the cable through the following hole.



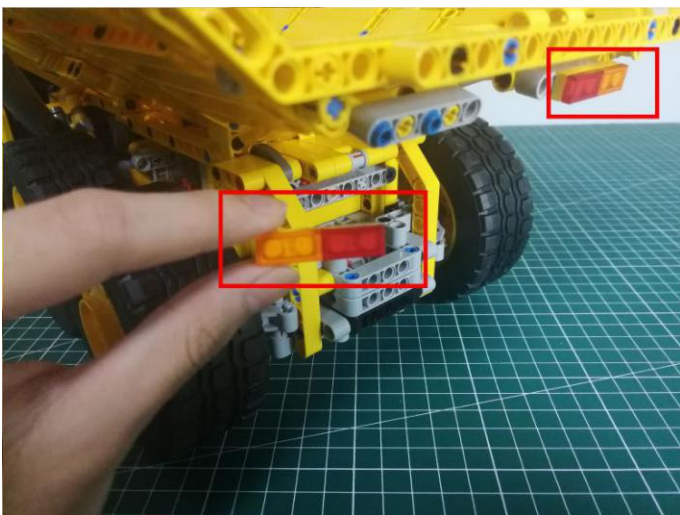
Wind it around the following place.



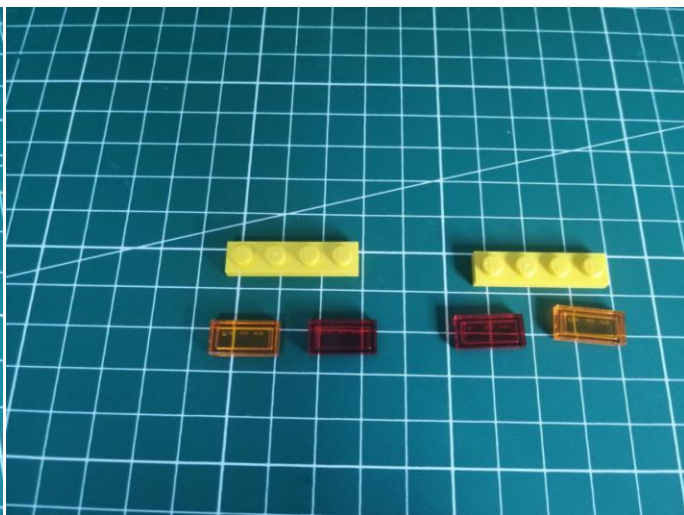
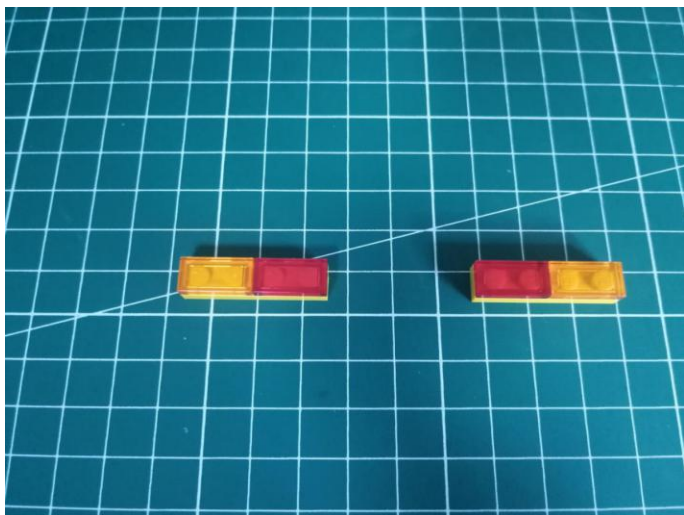
Turn the car back, and turn to the tail.



Remove the taillights.



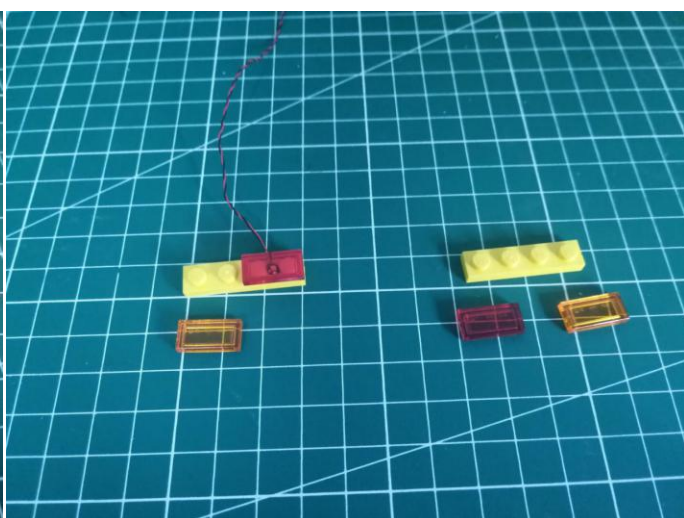
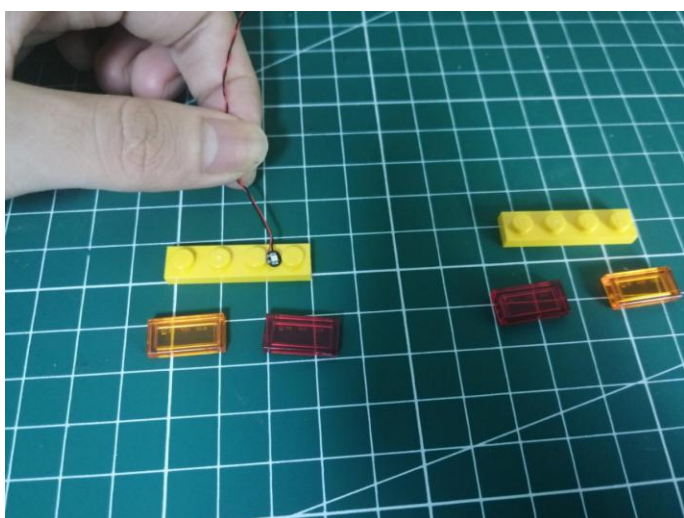
Disassemble them as per below.



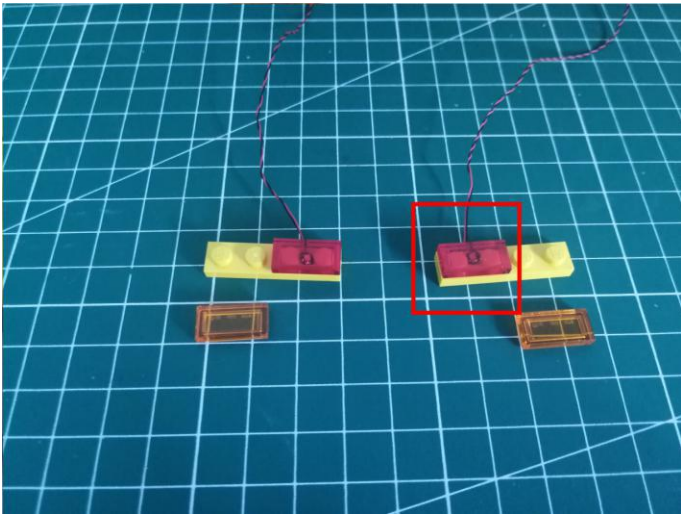
Take 2 red 30cm dot lights.



With lighting part facing up, connect the light to the following place, connect the red plate over.



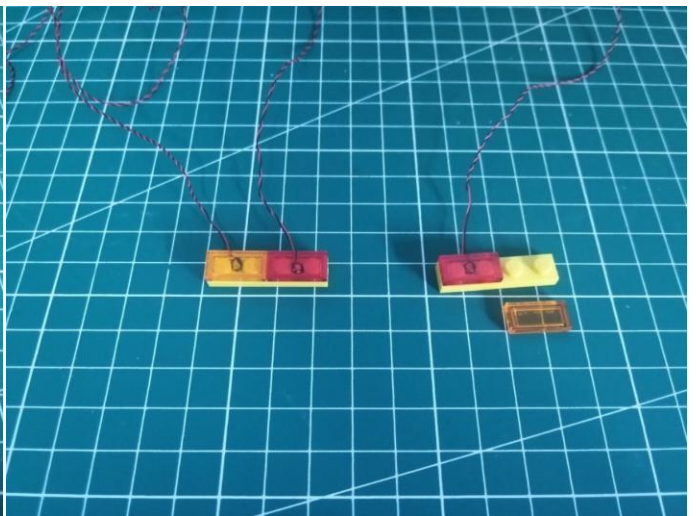
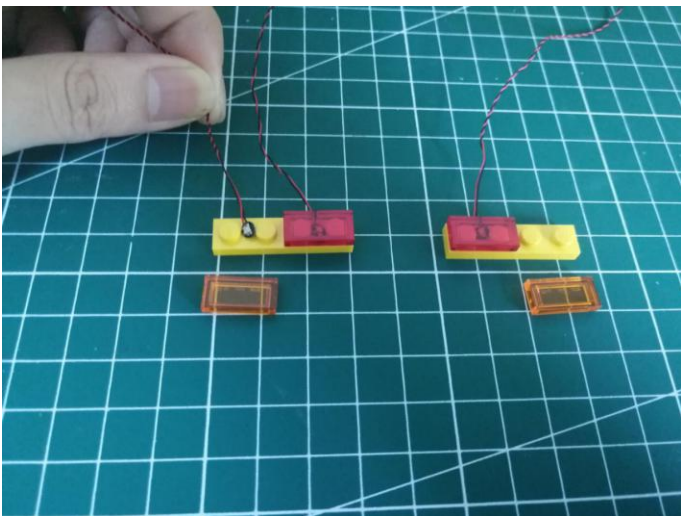
Install the other one in the same way.



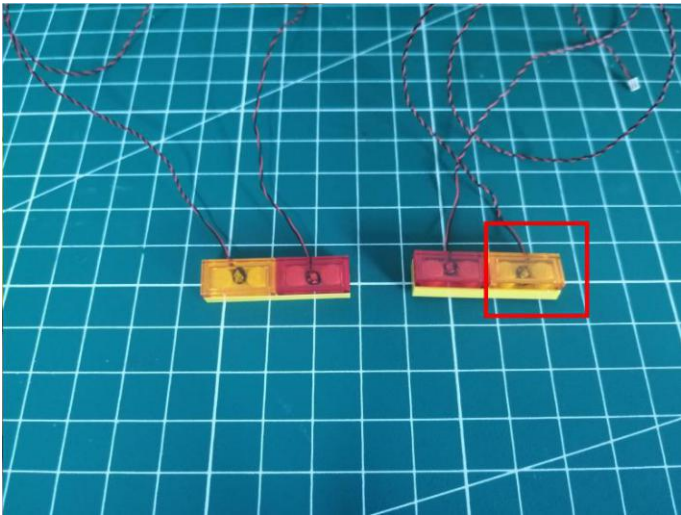
Take 2 flashing yellow 30cm dot lights.



With lighting part facing up, connect the light to the following place, connect the orange plate over.



Install the other one in the same way.



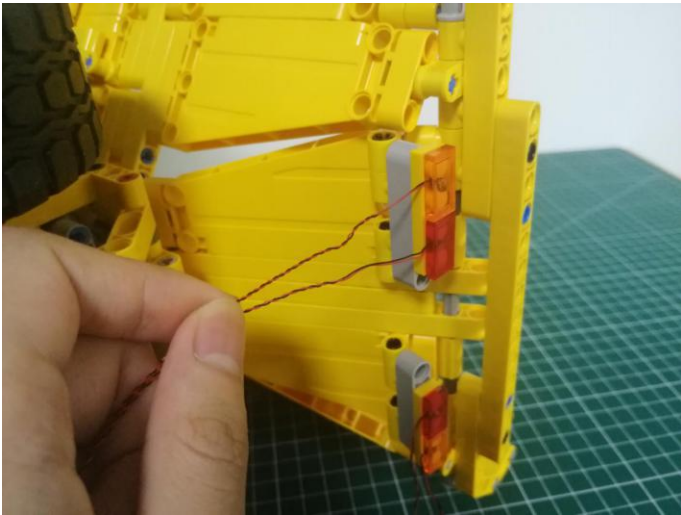
Reconnect the taillights.



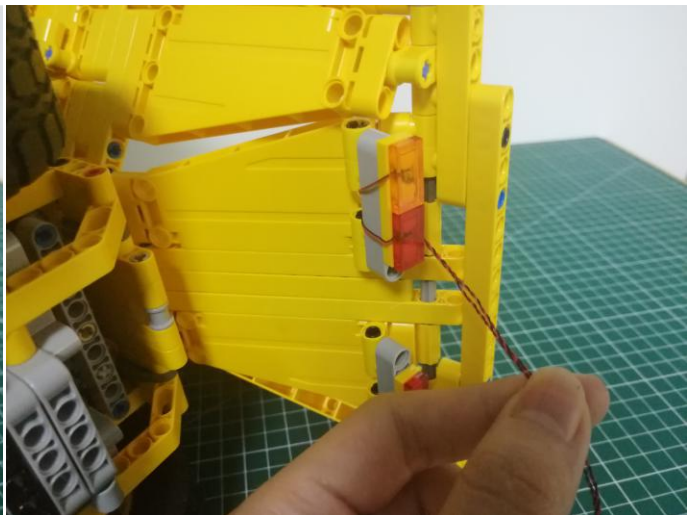
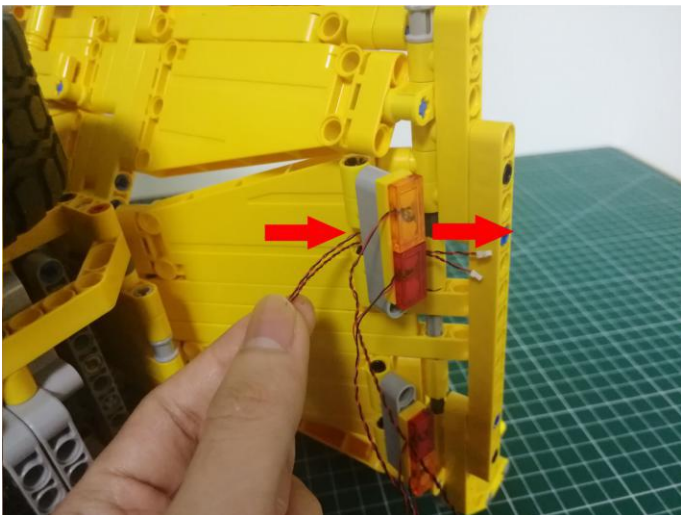
Turn the car over.



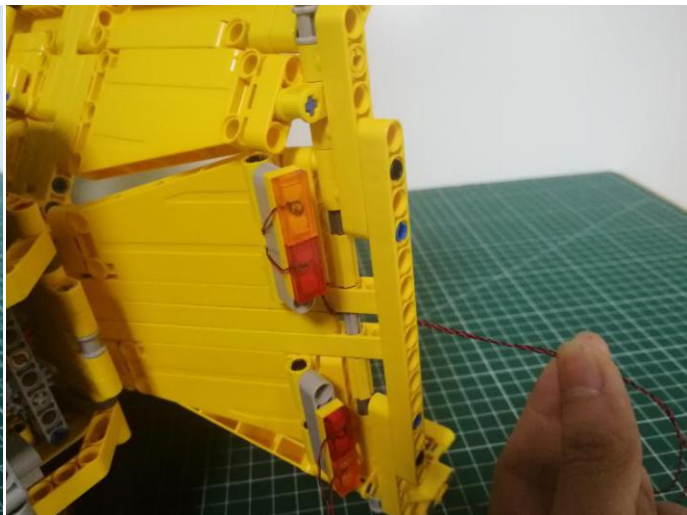
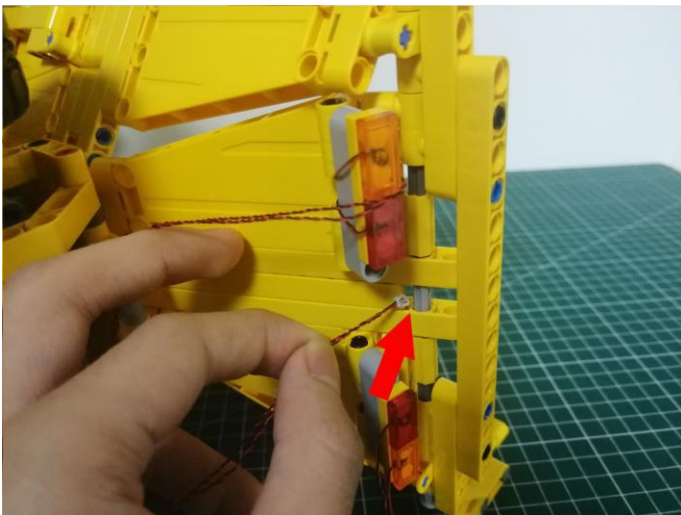
Take the following 2 cables.



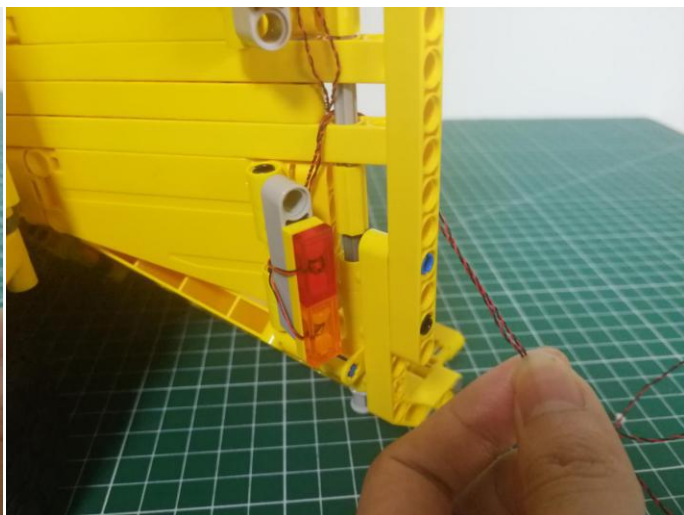
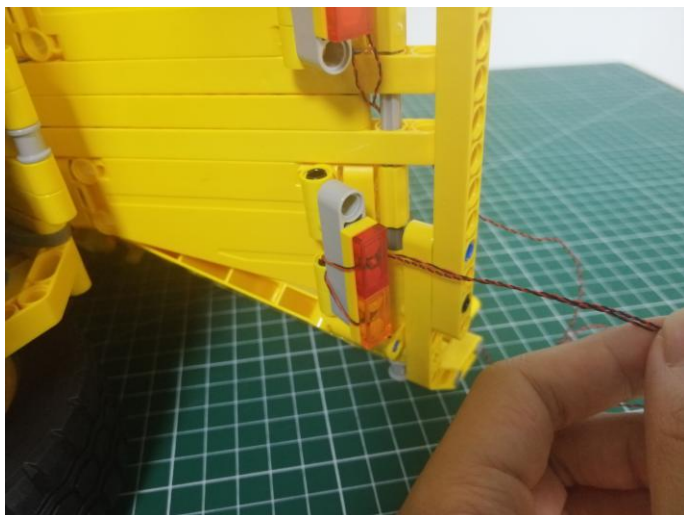
Thread them through the following place and tighten them up.



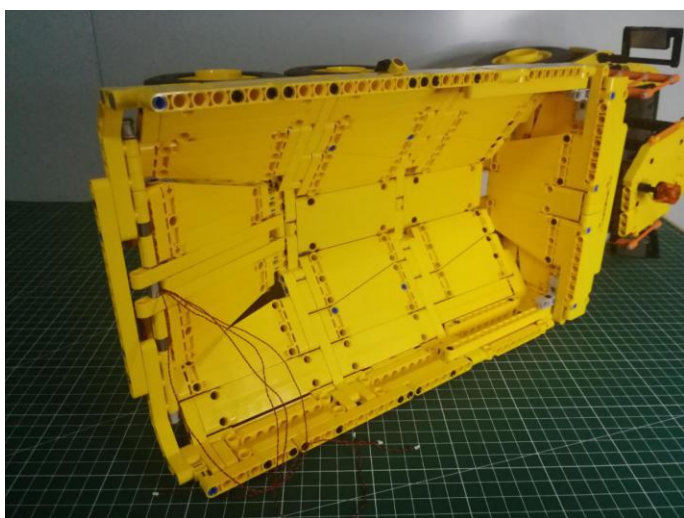
Continue to thread them through the following place and tighten them up.



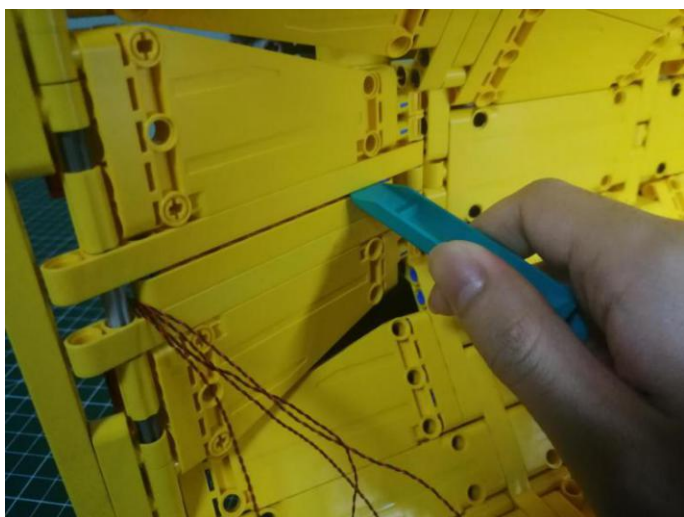
Place the following 2 cables similarly.



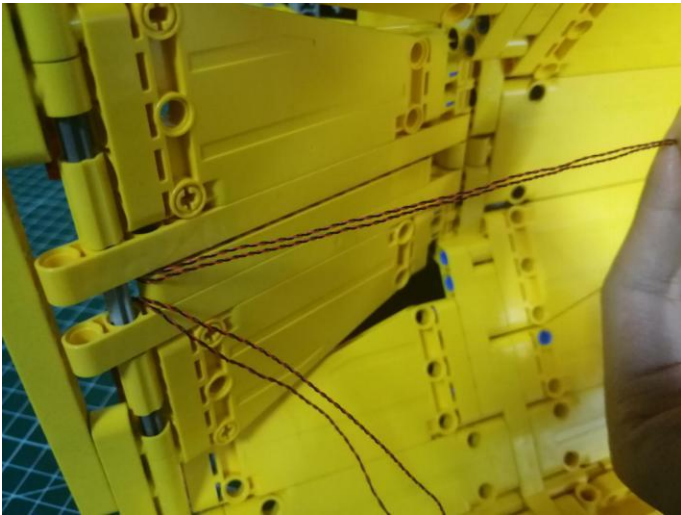
Turn to the following place.



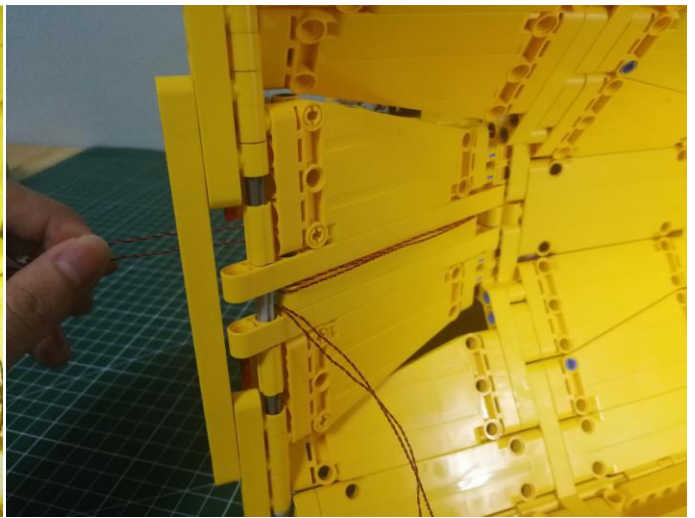
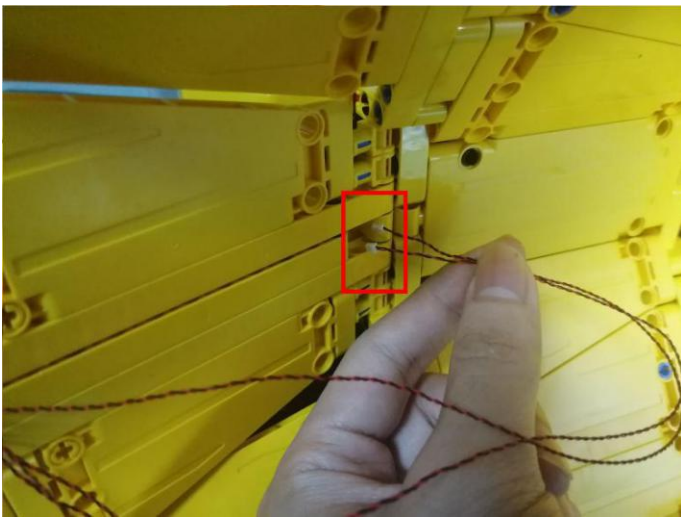
Create a gap at the following place with the tool.



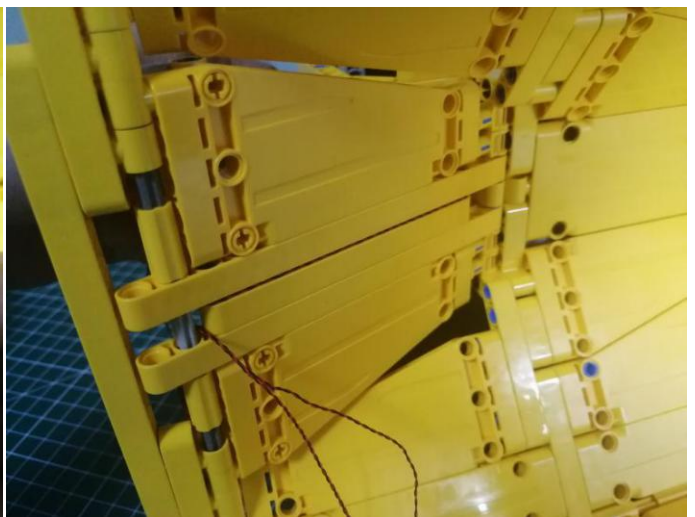
Take the following cables.



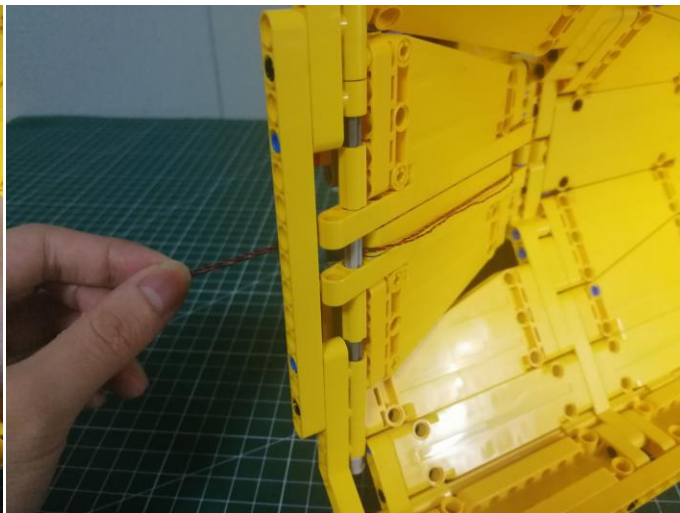
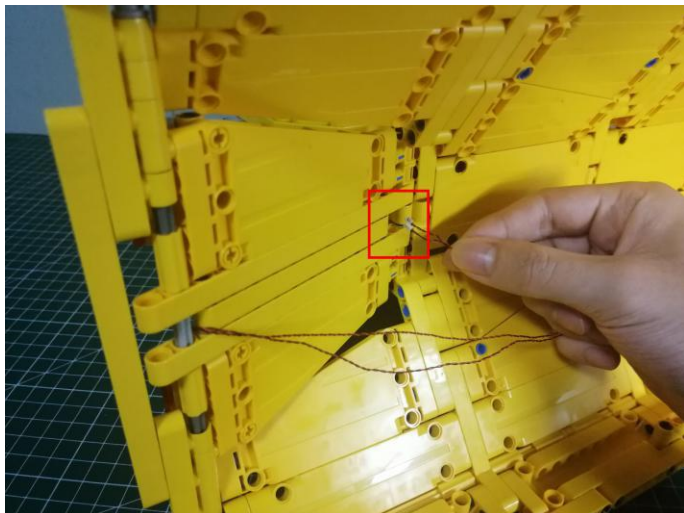
Thread them through to the behind.



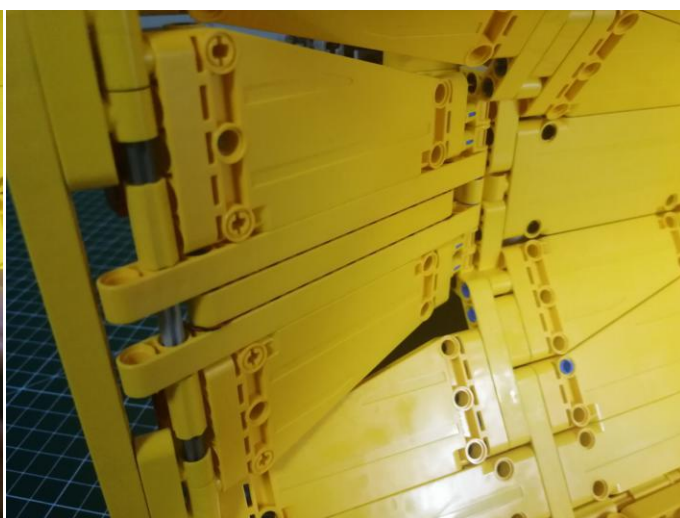
Place the cables inside with the tool.



Thread the 2 cables underneath to the back similarly.



Place the cables inside with the tool.



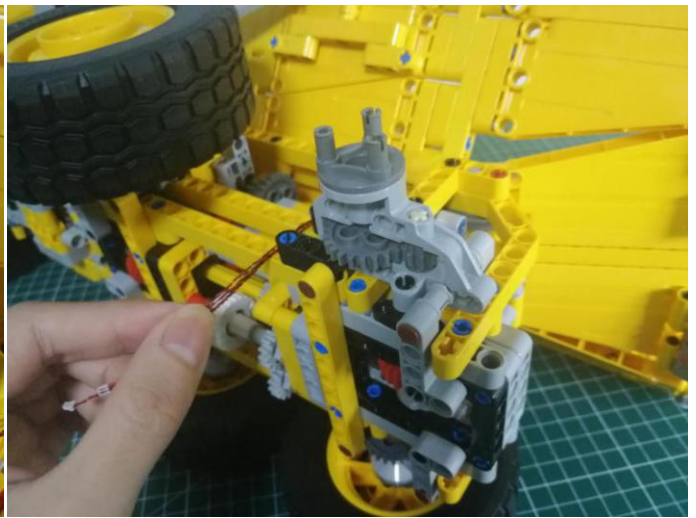
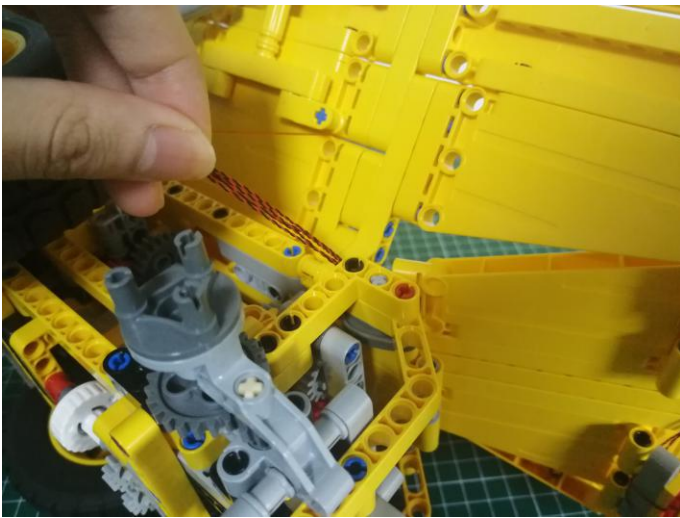
Turn to the bottom.



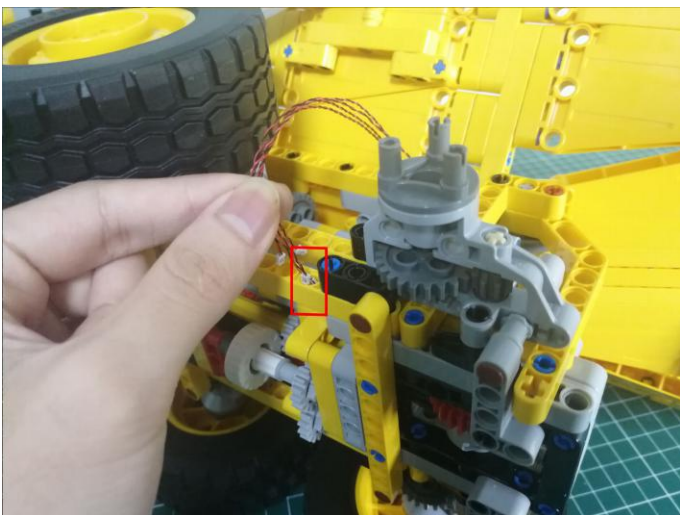
Remove the wheel.



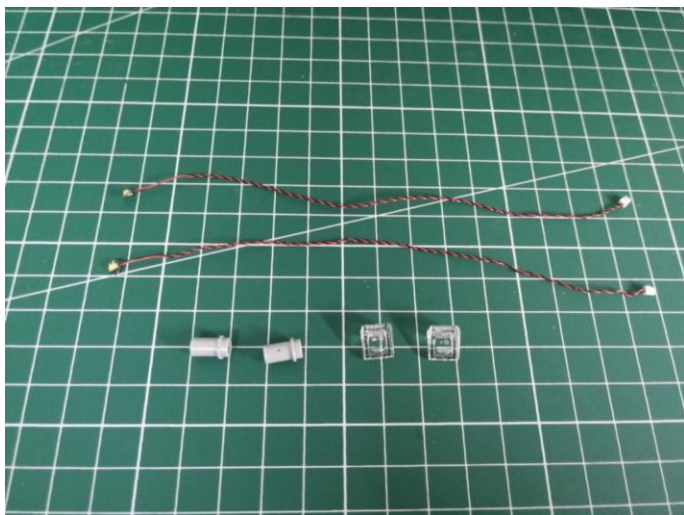
Place the 4 cables we threaded through to the following place.



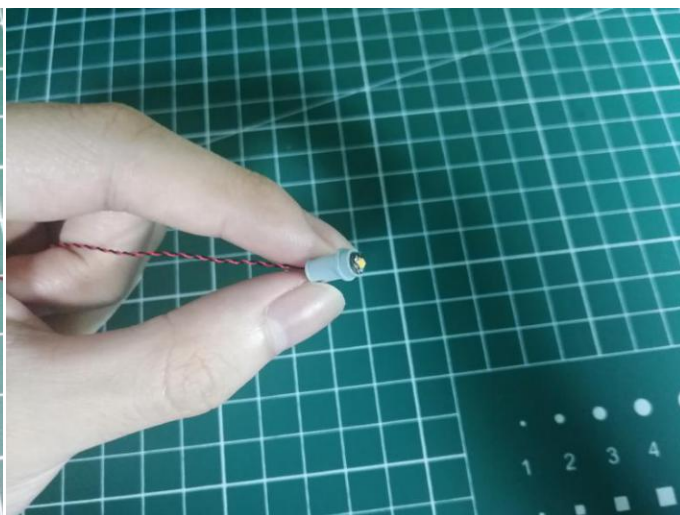
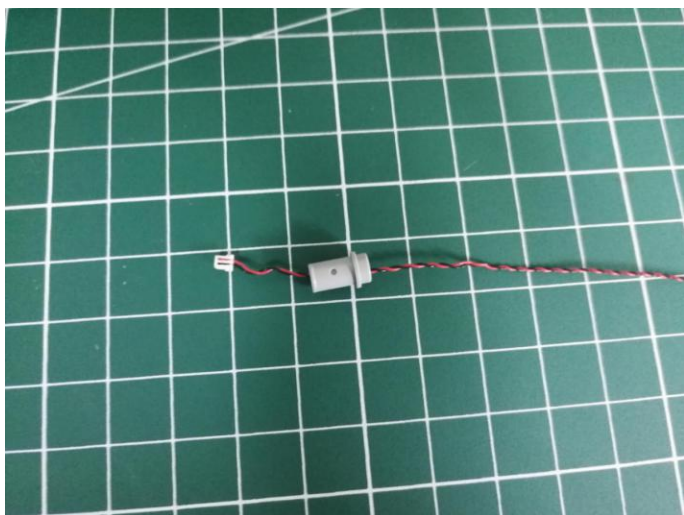
Continue to thread them through the following space.



Take 2 warm white 15cm dot lights, 2 light gray half bolts, 2 trans white slope bricks.



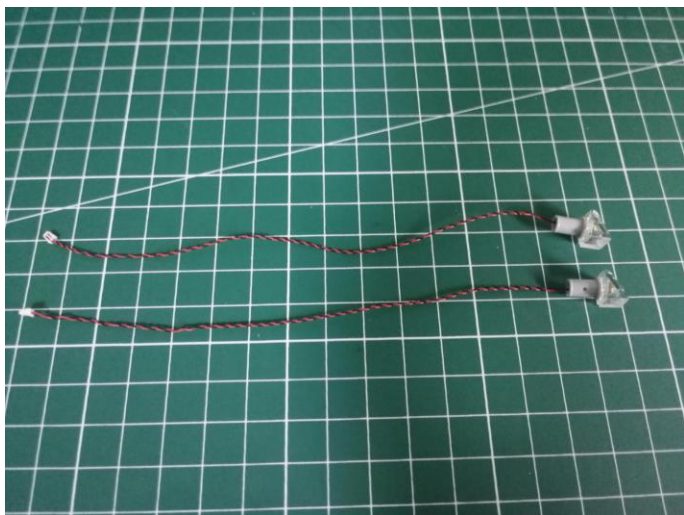
With lighting part facing outside, thread the cable through the following half bolt, tighten the cable up.



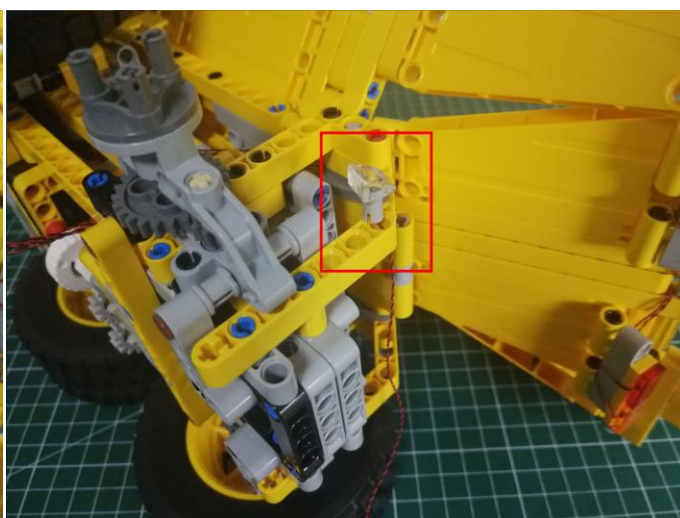
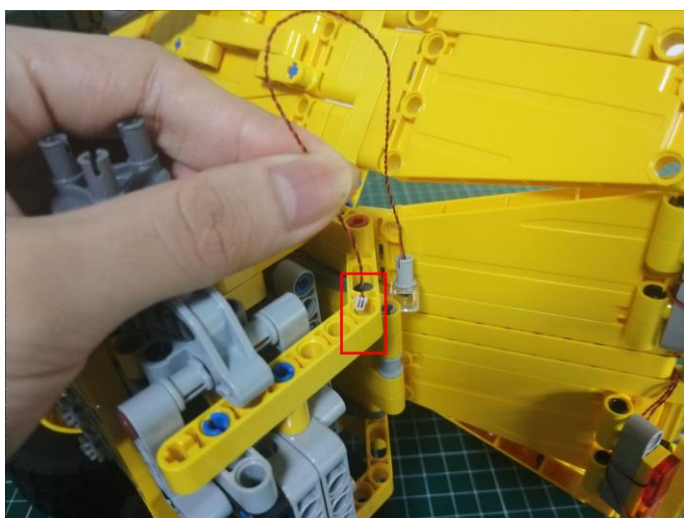
Connect the slope brick over.



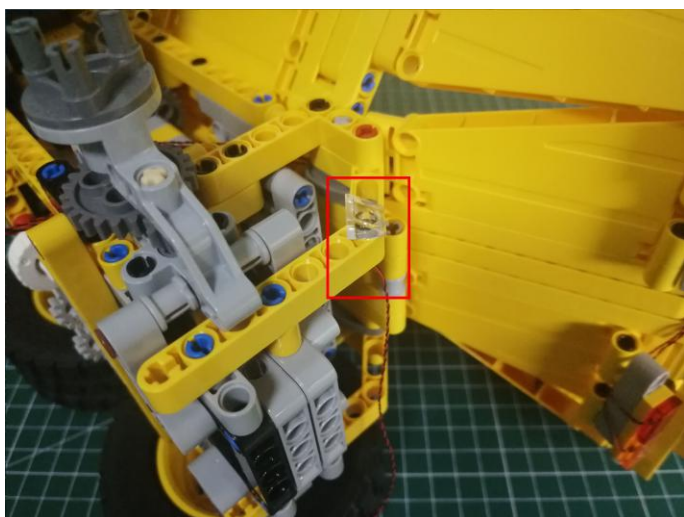
Install the other one in the same way.



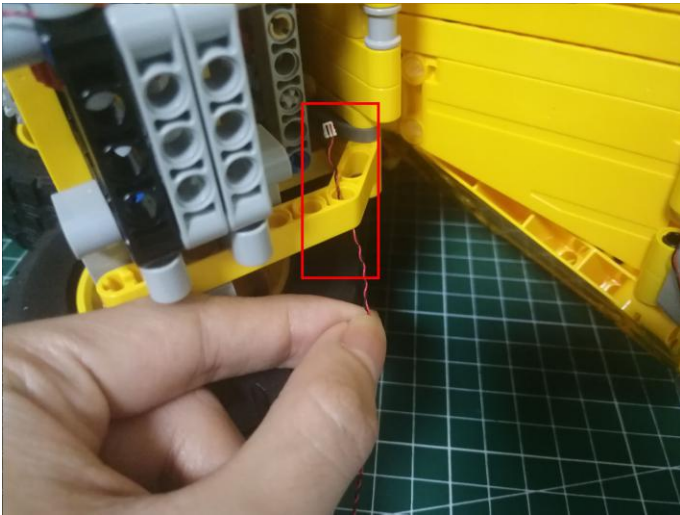
Thread the cable through the following space.



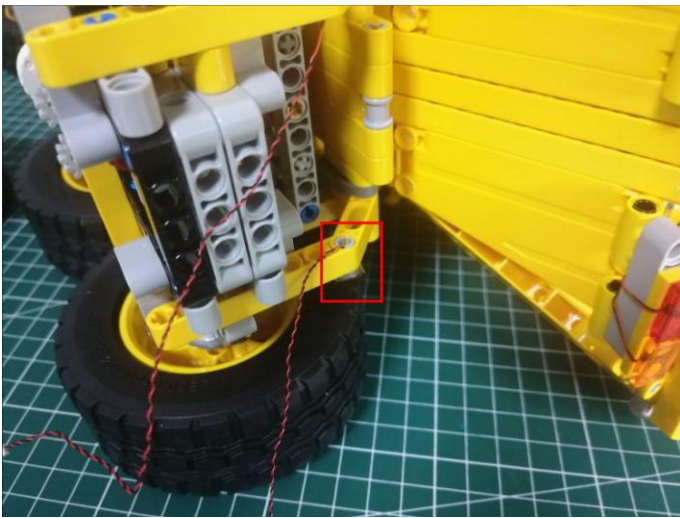
Connect the half bolt inside the hole.



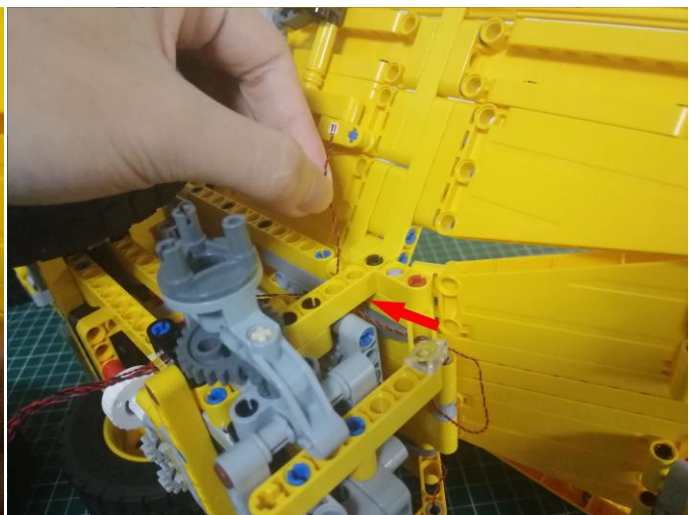
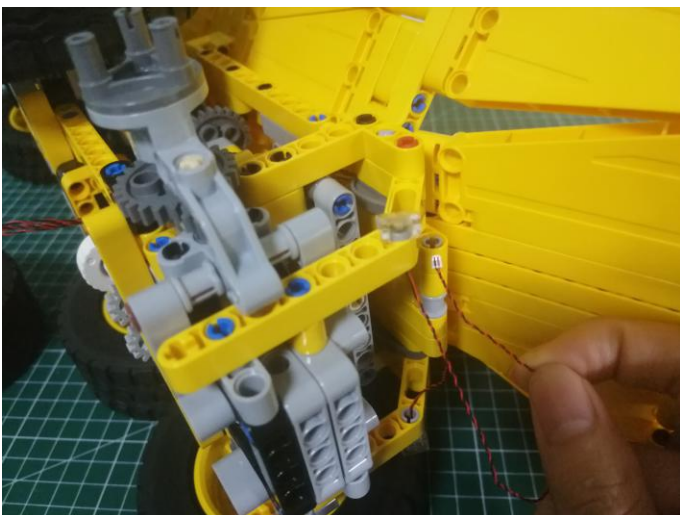
Thread the other cable through the following space.



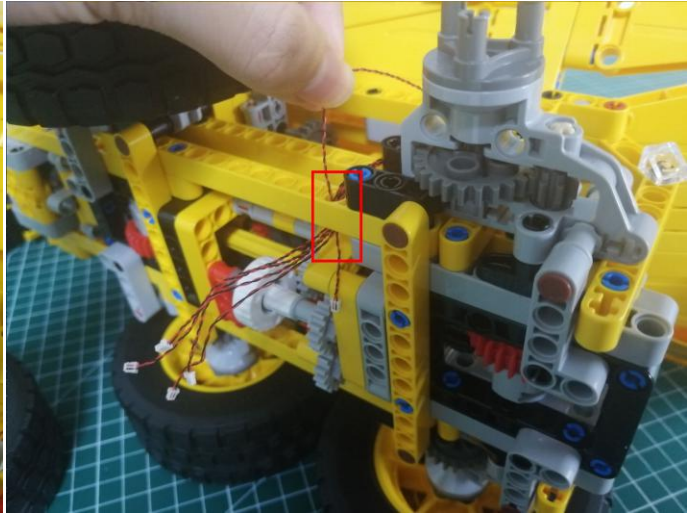
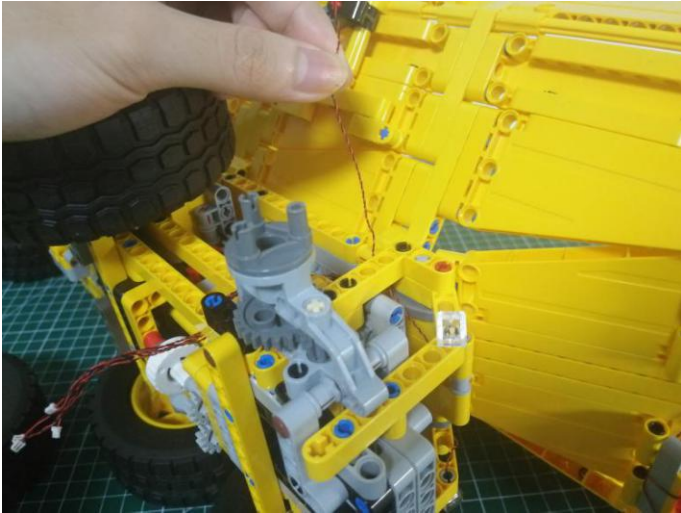
Place it as per below.



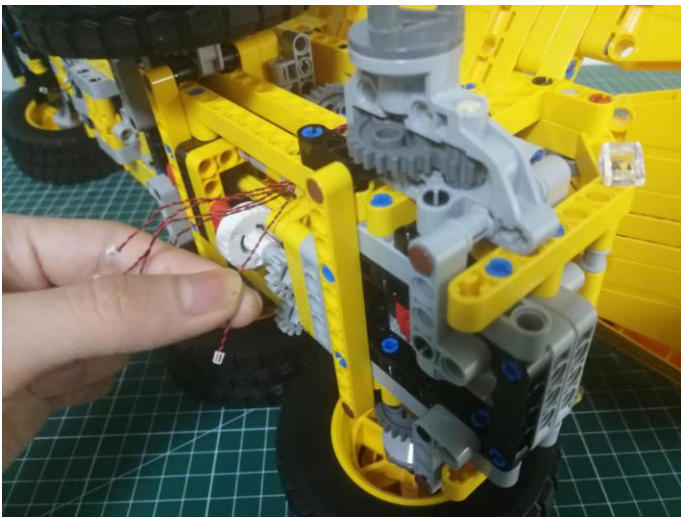
Thread the cable from above to the front.



Continue to thread the it through the following hole.



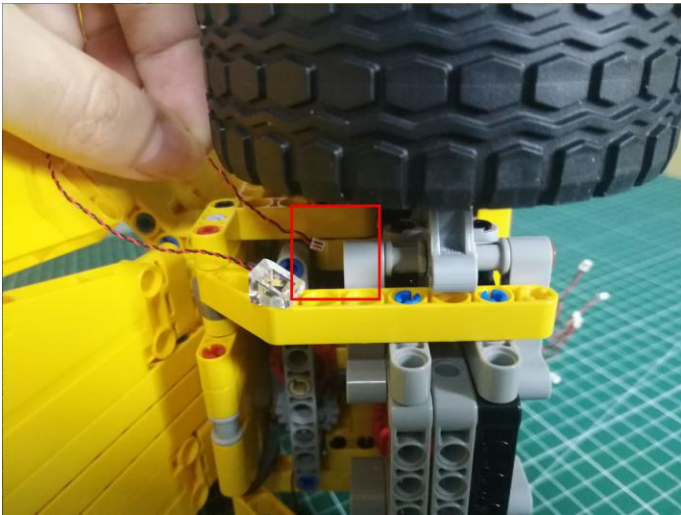
Tighten it up.



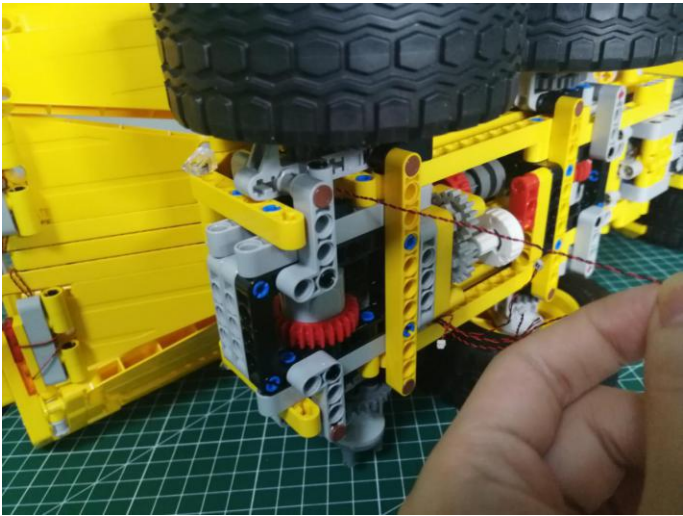
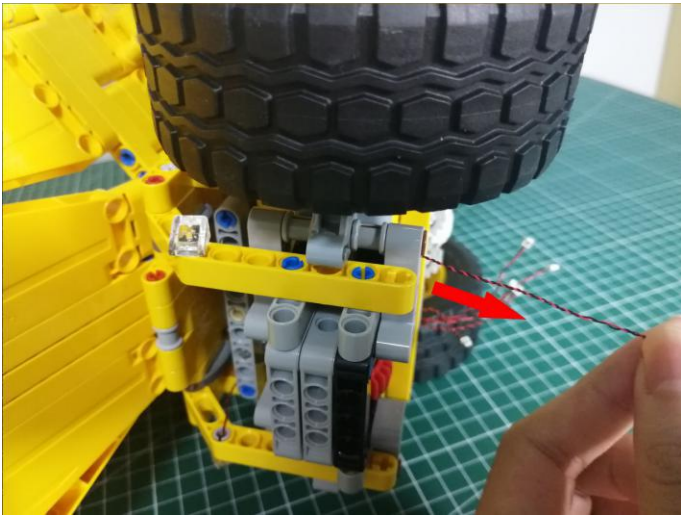
Turn to the other side.



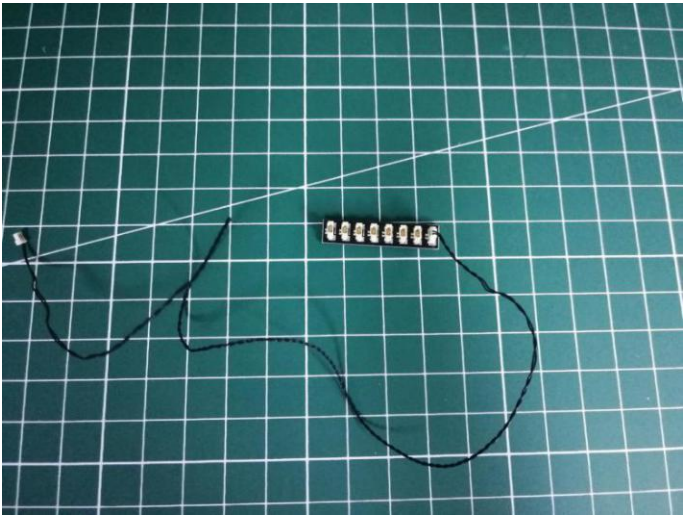
Thread the cable through the following space.



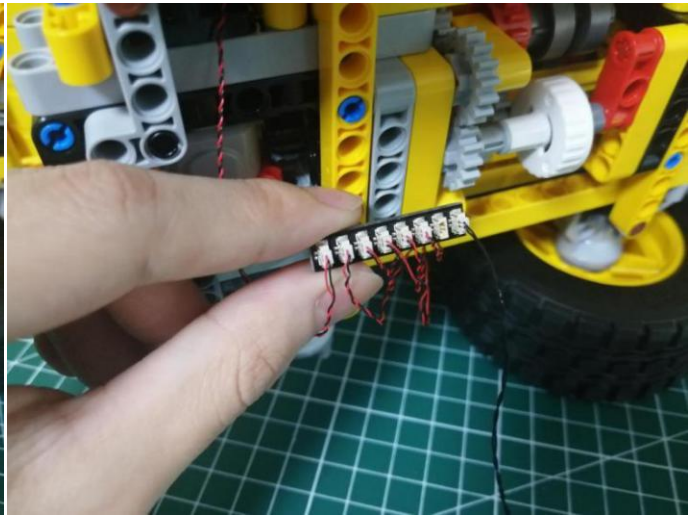
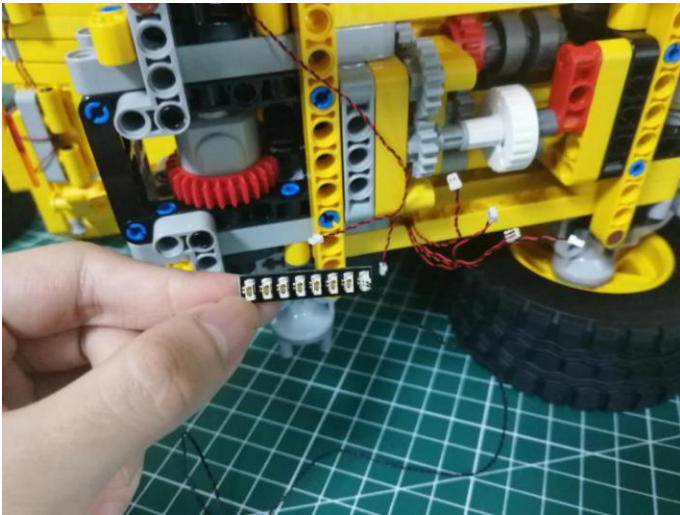
Pull it out from the following place.



Take an 8-port expansion board, a 30cm connecting cable.



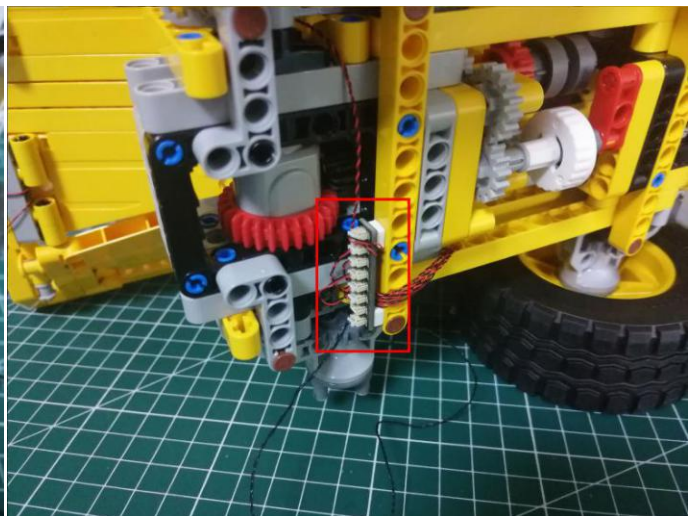
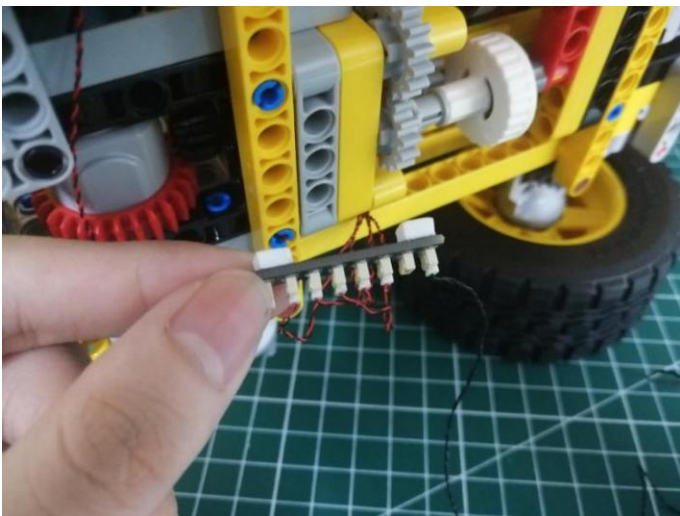
Connect the following cables to the expansion board.



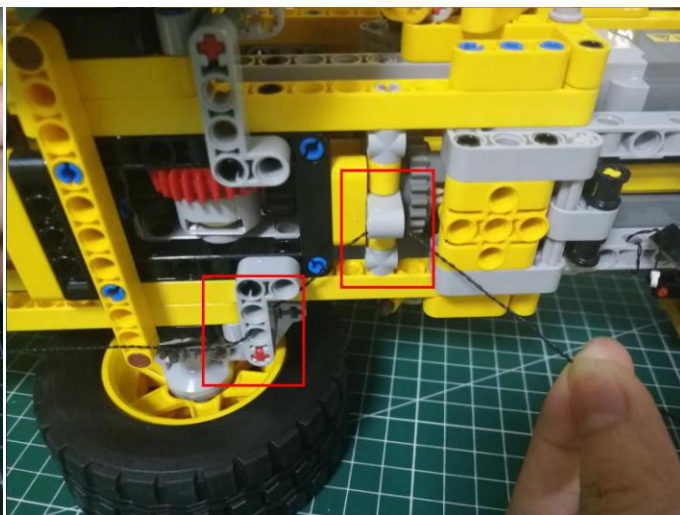
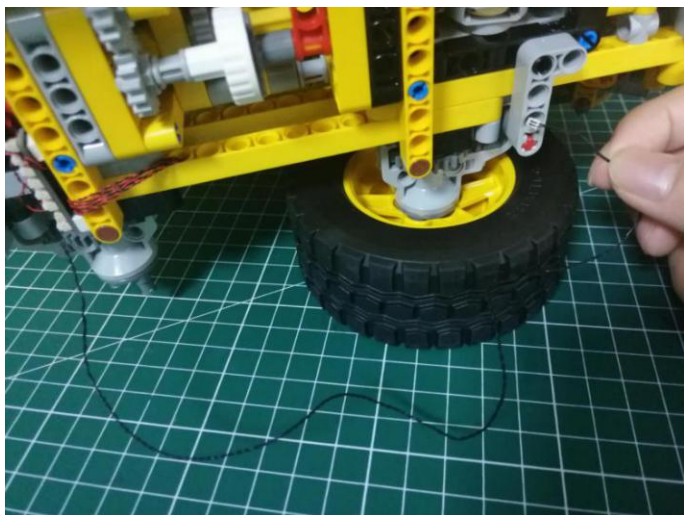
Take 2 adhesive squares.



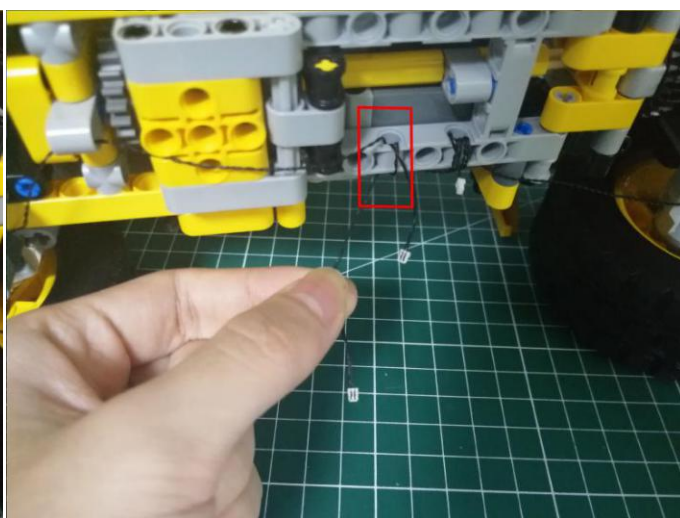
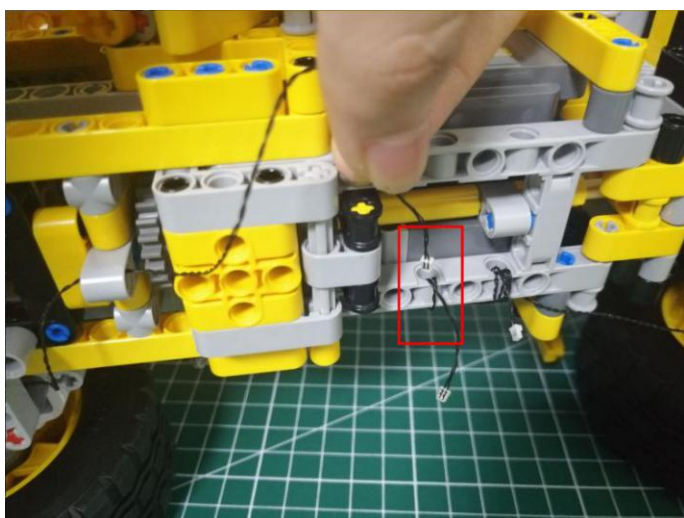
Stick them to the back of the expansion board, and stick the expansion board to the following place.



Thread the cable from the expansion board through the following space.



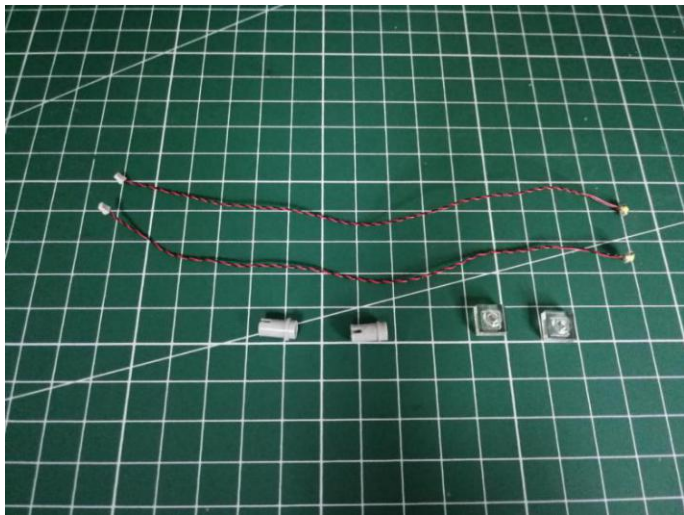
Continue to thread it through the following space.



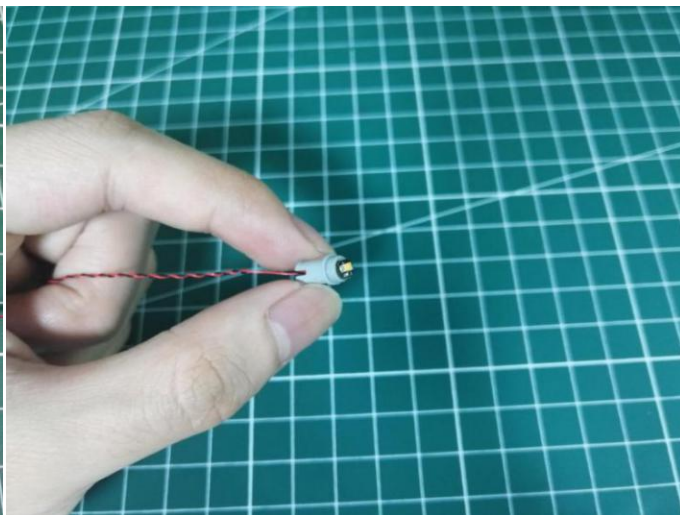
Wind the cable around the following place.



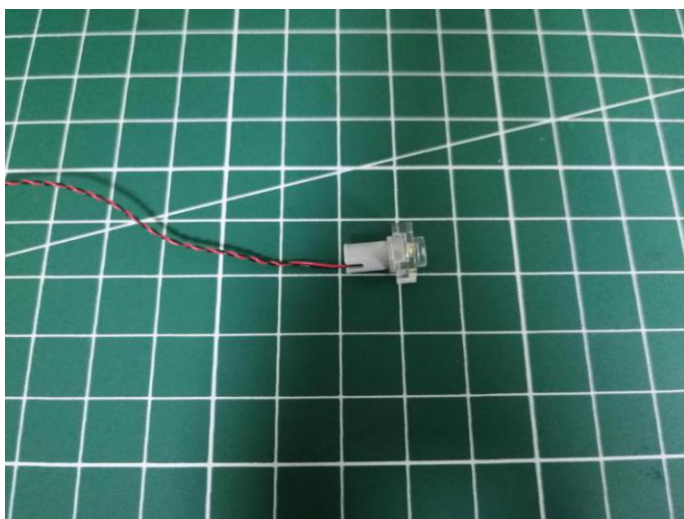
Take 2 warm white 15cm dot lights, 2 light gray half bolts, 2 trans white slope bricks.



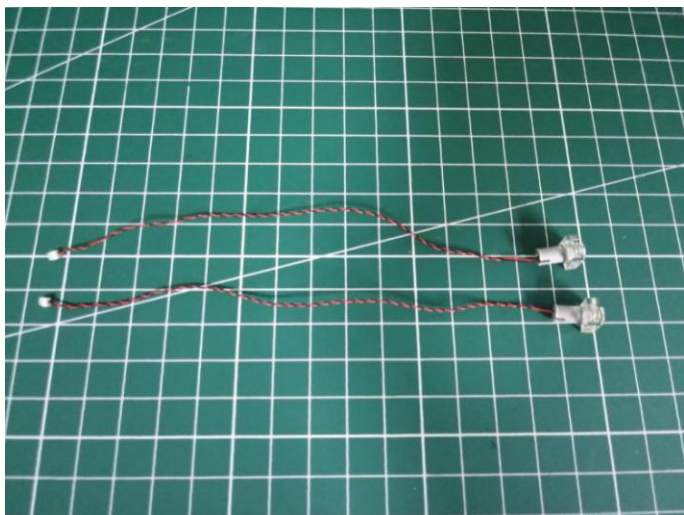
With lighting part facing outside, thread the light through the following half bolt, tighten the cable up.



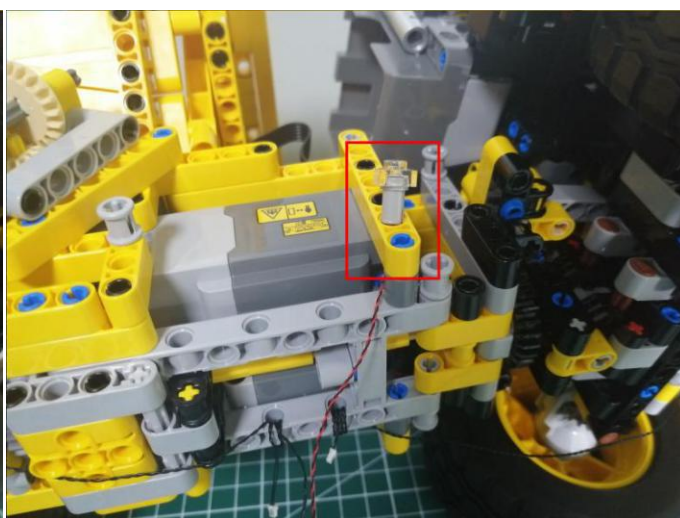
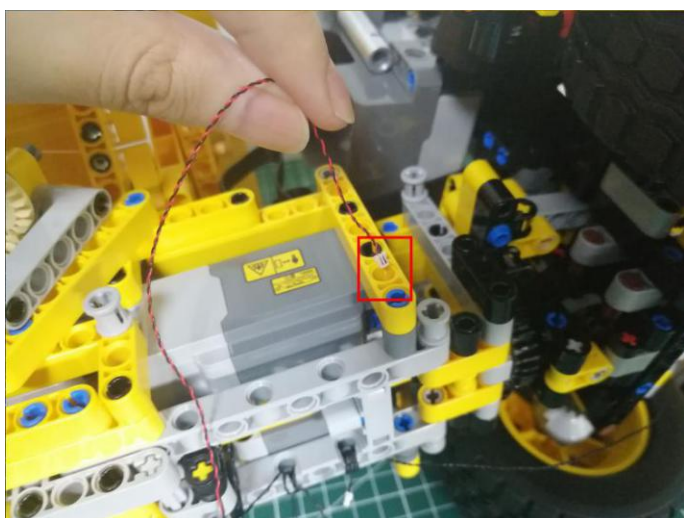
Connect the brick over.



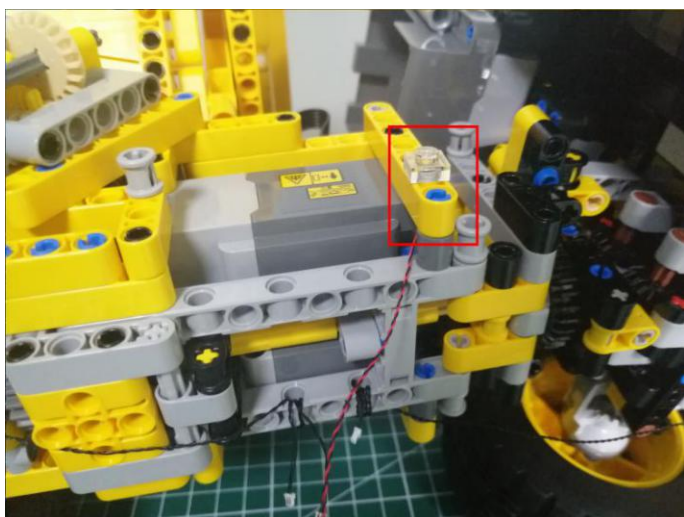
Install the other one in the same way.



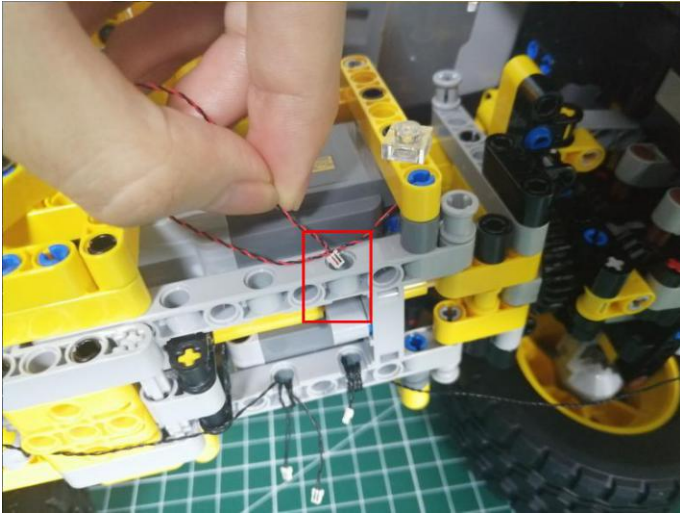
Thread the cable through the following hole.



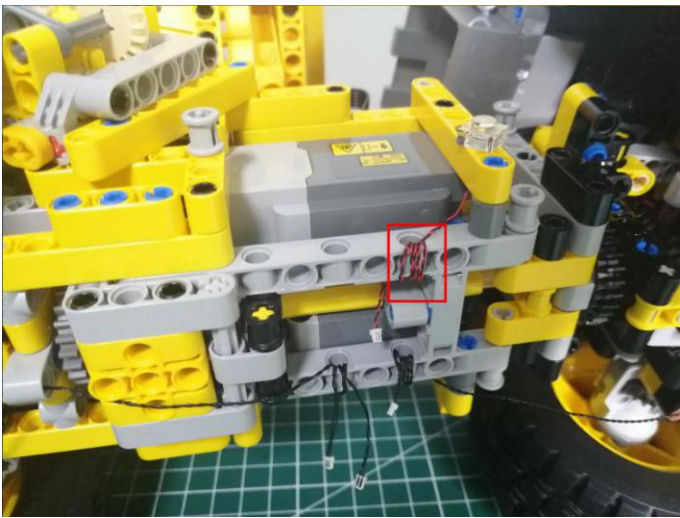
Connect the half bolt inside the hole.



Thread the cable through the following hole.



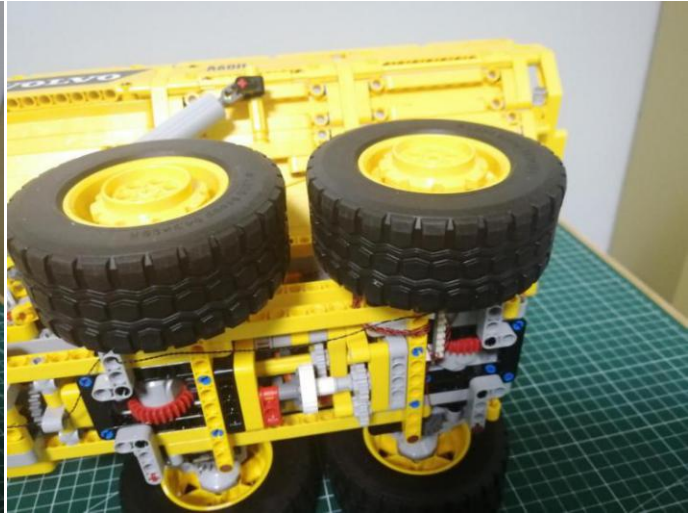
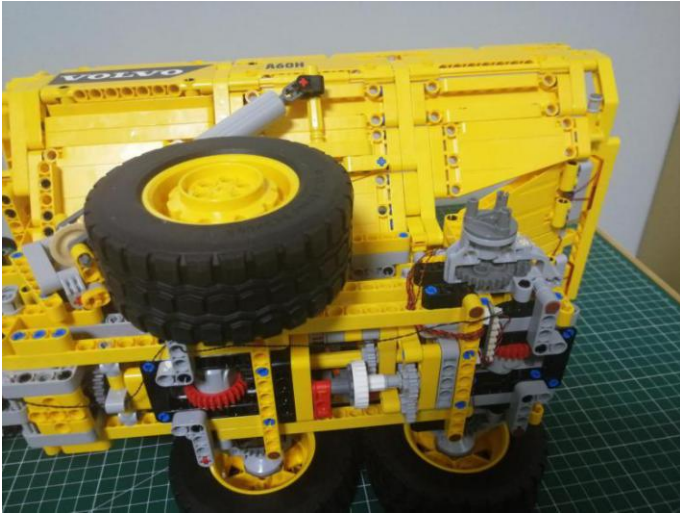
Wind the cable around the following piece several times.



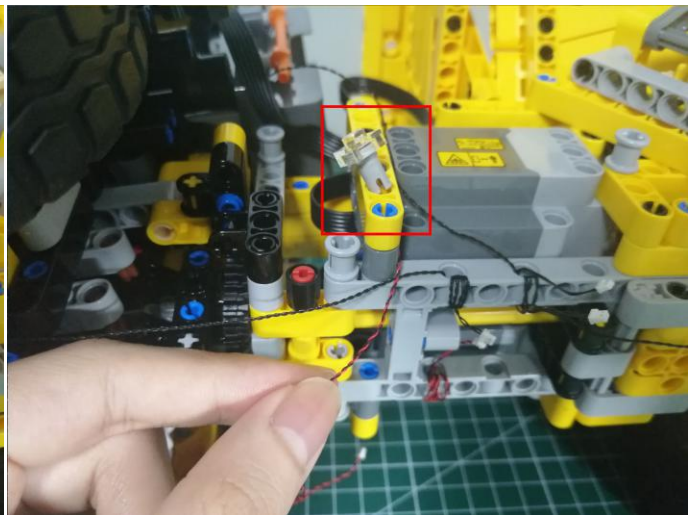
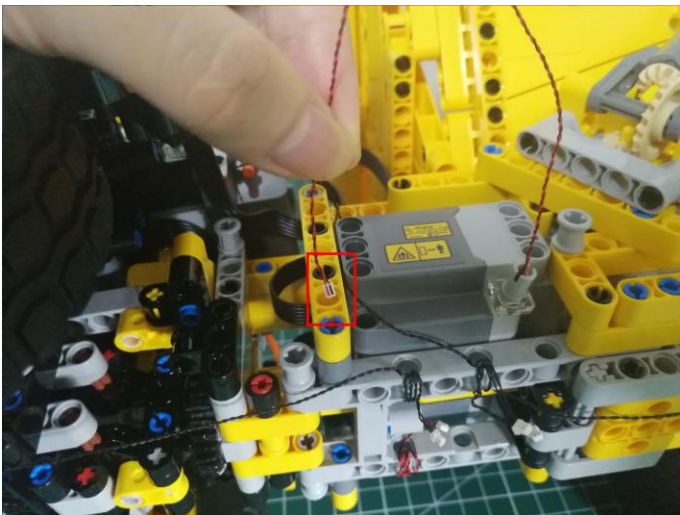
Turn the car over.



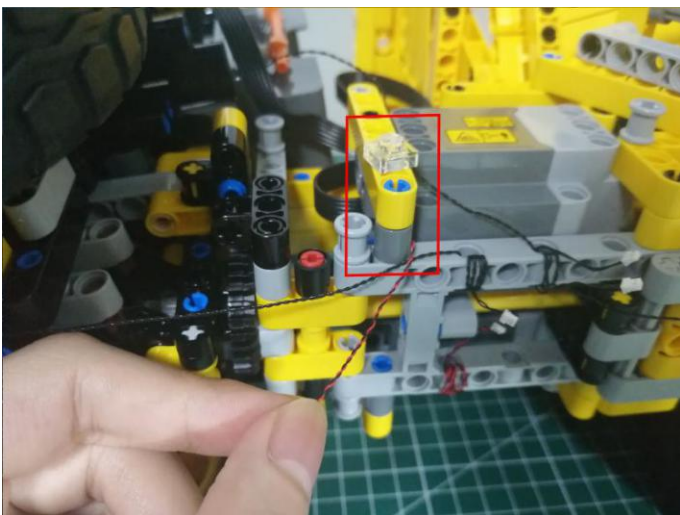
Turn to the back, reconnect the wheel we removed before.



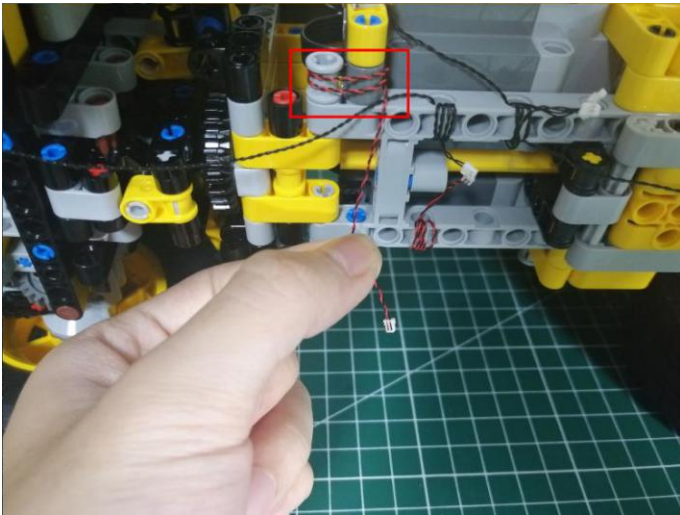
Install the other light to the following place.



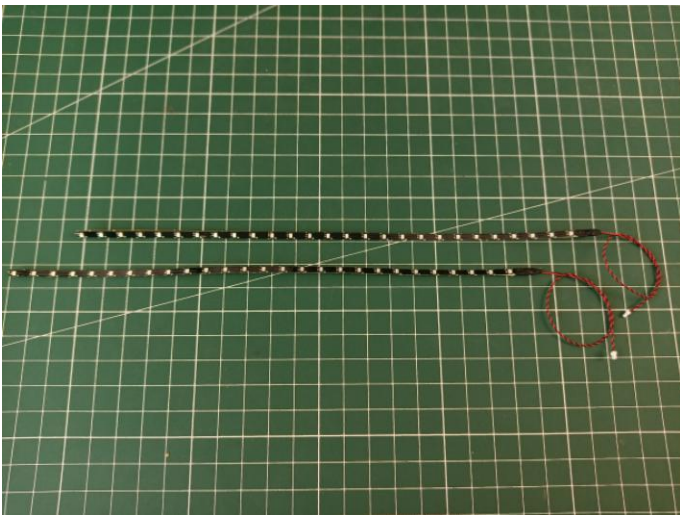
Connect the half bolt inside the hole as per below.



Wind excess cable around following piece.



Take 2 blue 15cm strip lights



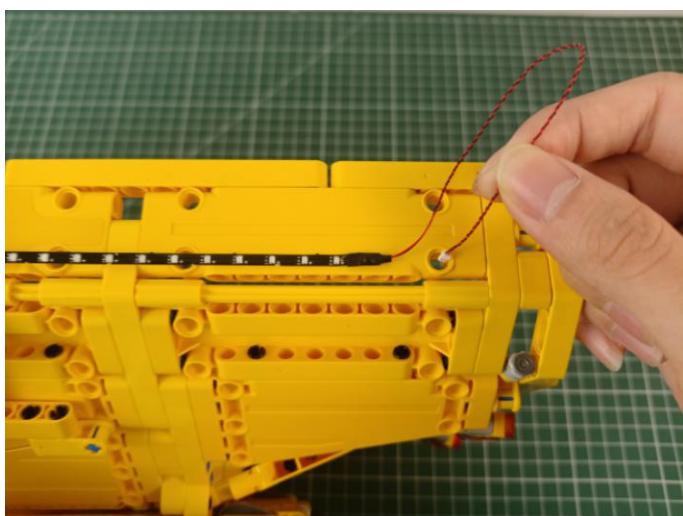
Turn to the back of the car.



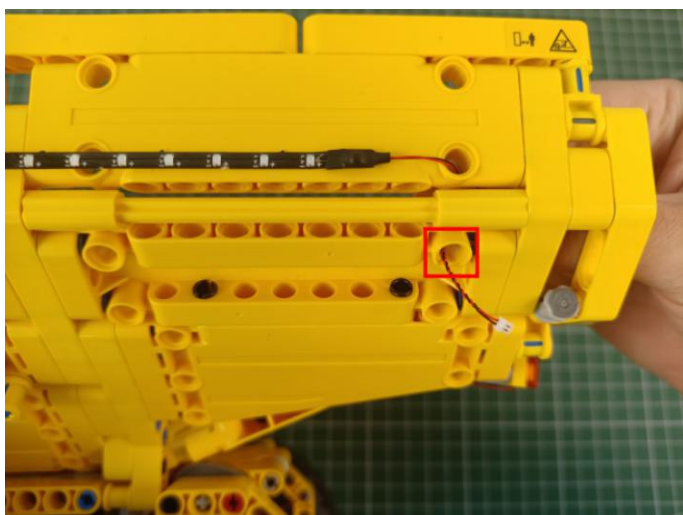
Stick the red strip light at the following place.



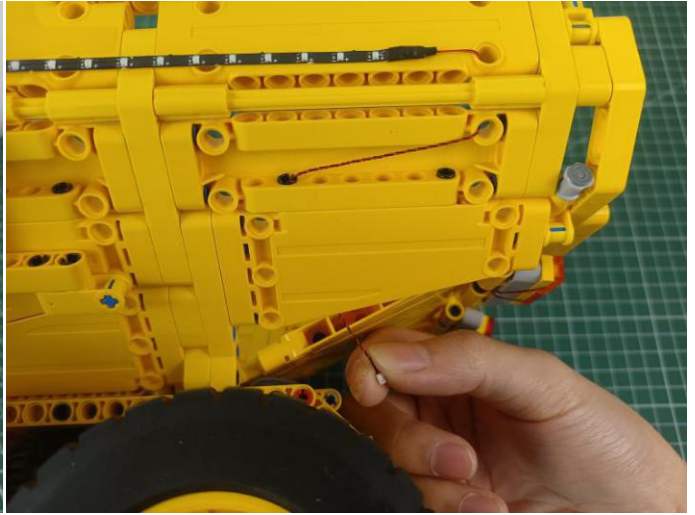
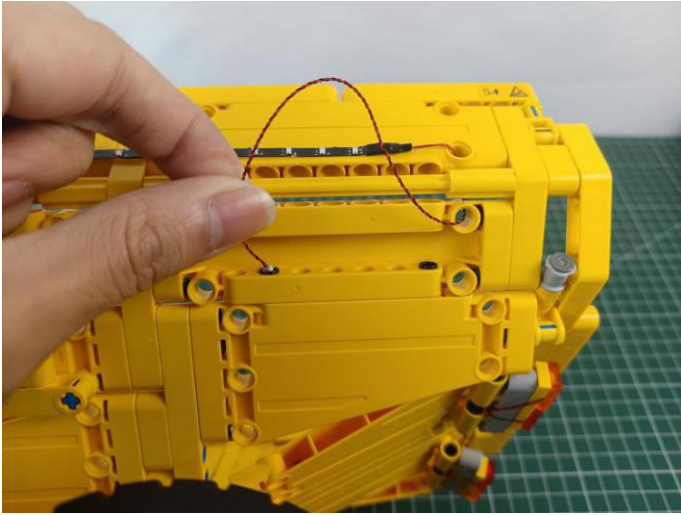
Thread the cable through the following hole.



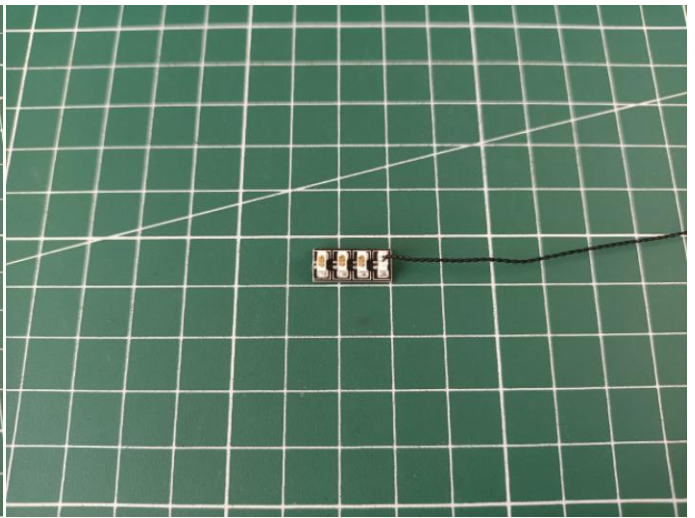
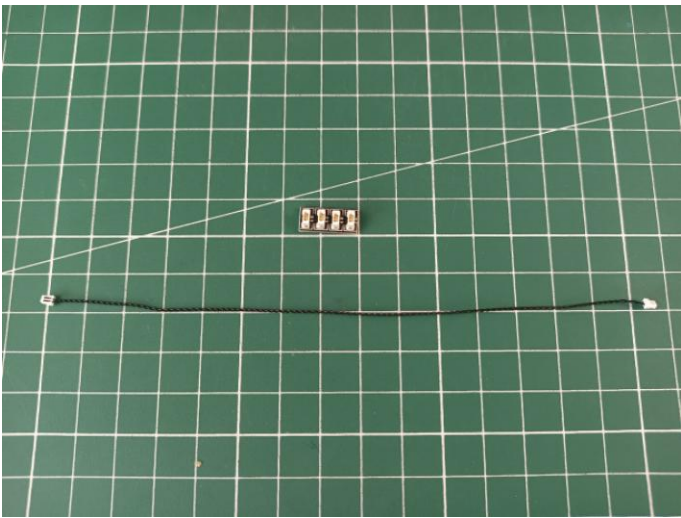
Continue to thread the cable from the back to the front through the following hole.



Thread the cable through the following hole.



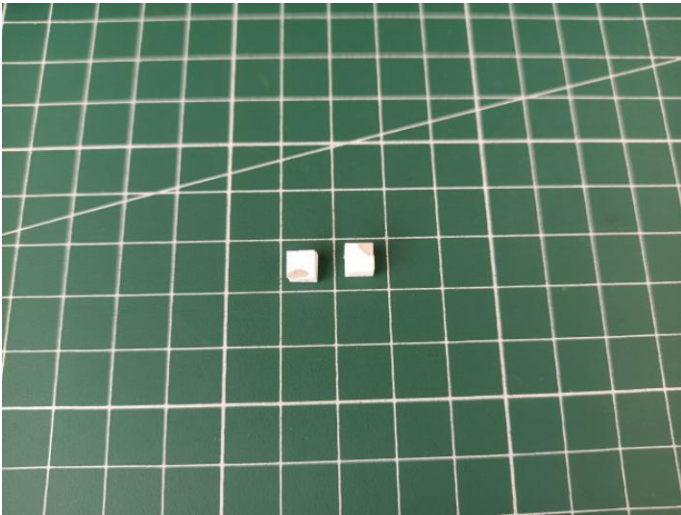
Take a 4-port expansion board, a 15cm connecting cable, assemble them as per below.



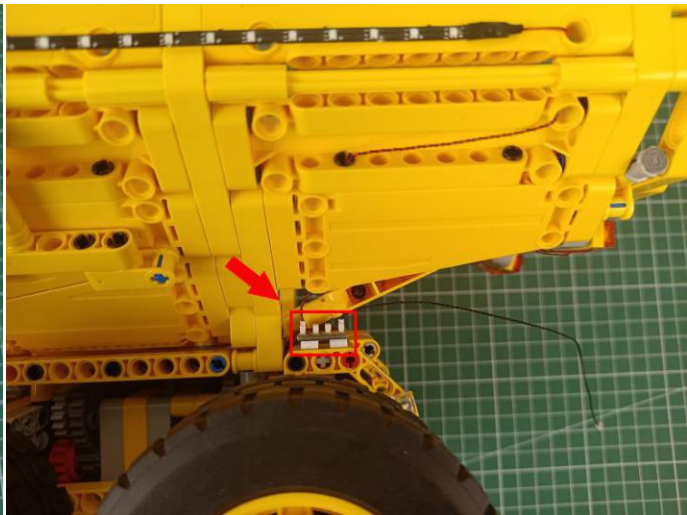
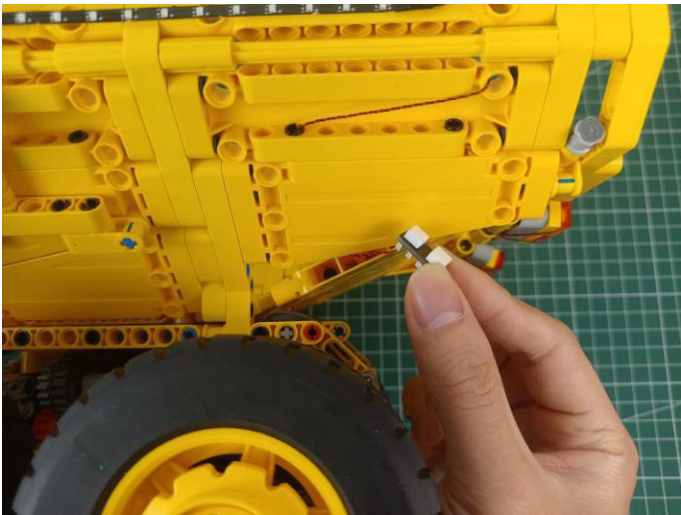
Connect the cable from the light to the expansion board.



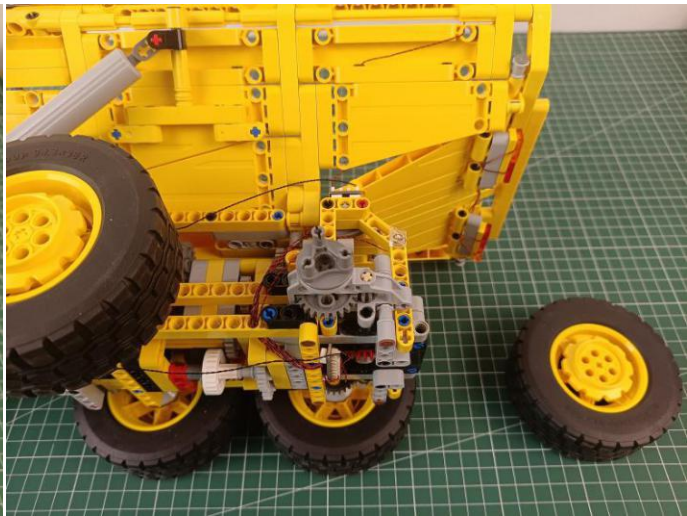
Take 2 adhesive squares.



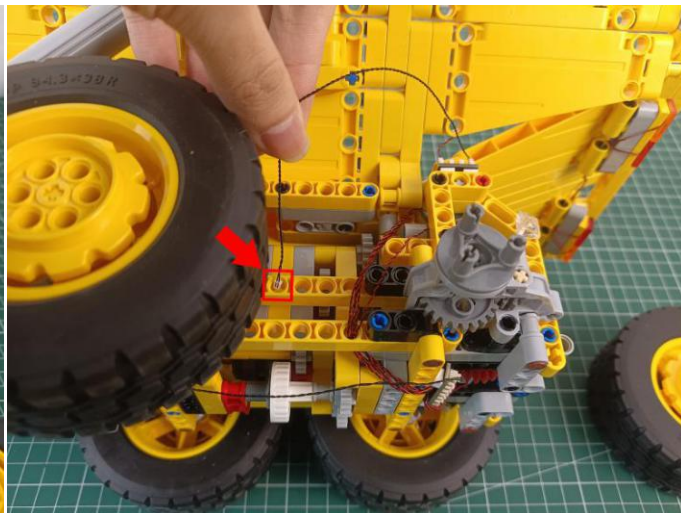
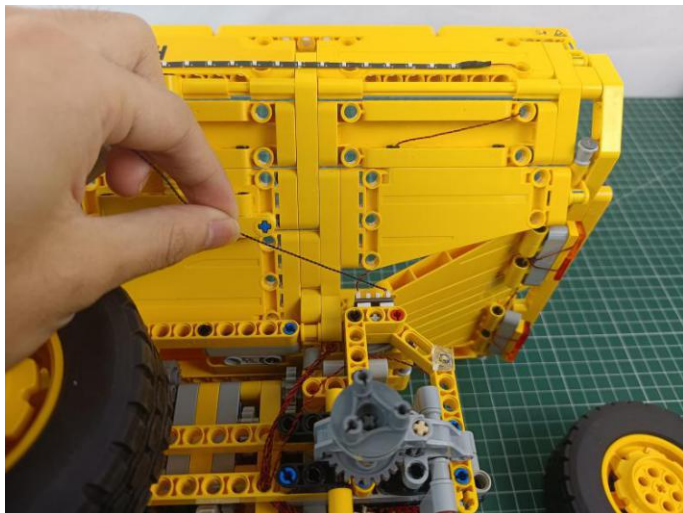
Stick them to the back of the expansion board, and stick the expansion board to the following place.



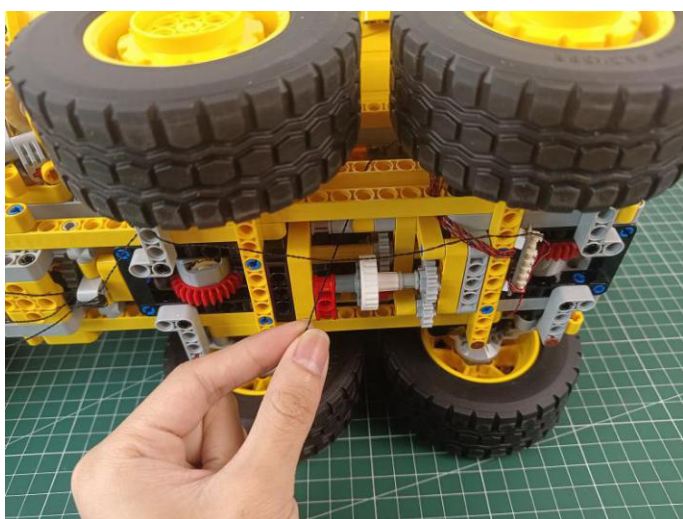
Remove the back wheel.



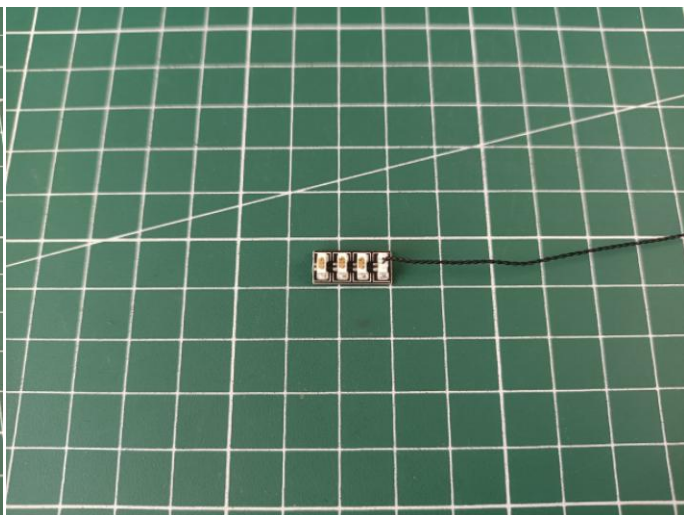
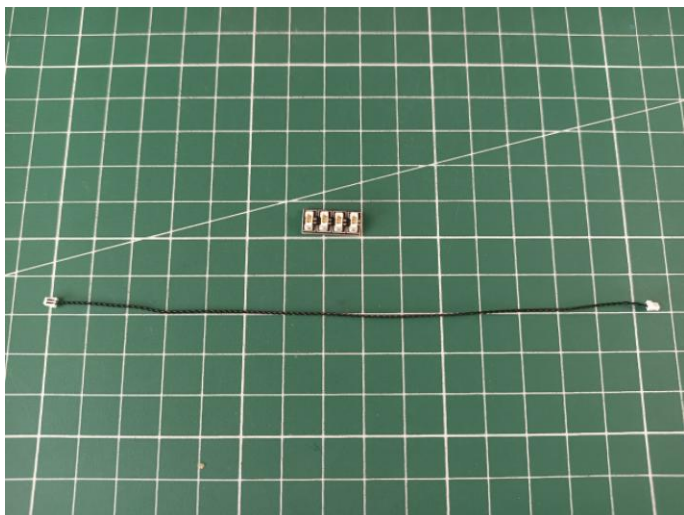
Thread the following cable through the hole and reconnect the back wheel.



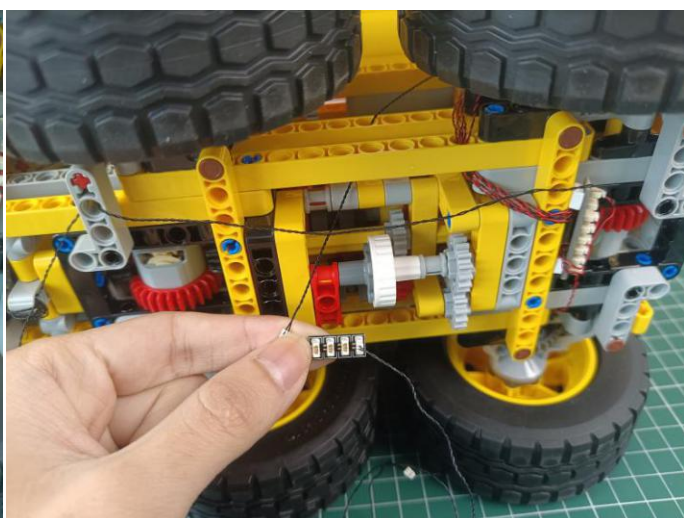
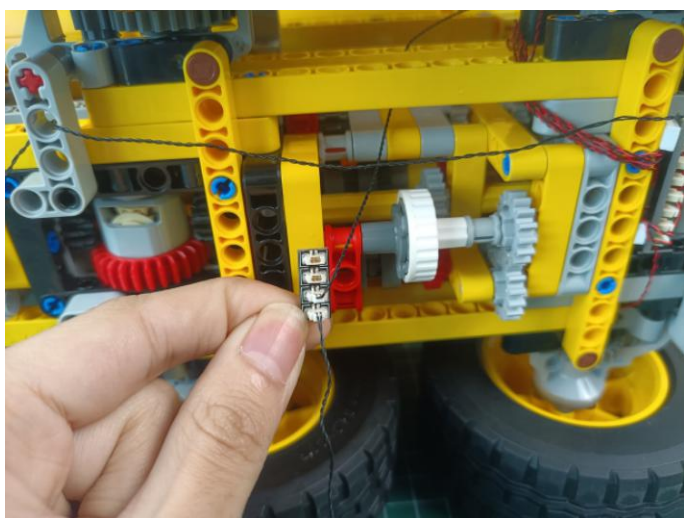
Turn to the bottom.



Take a 4-port expansion board, a 15cm connecting cable, assemble them as per below.



Connect the following cable to the expansion board.



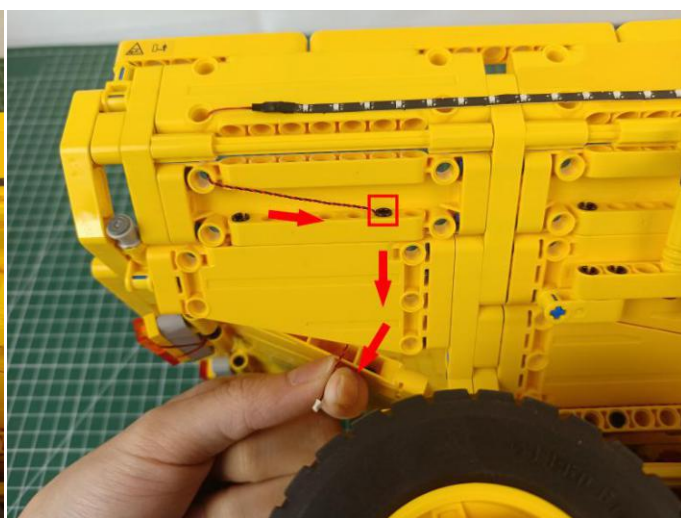
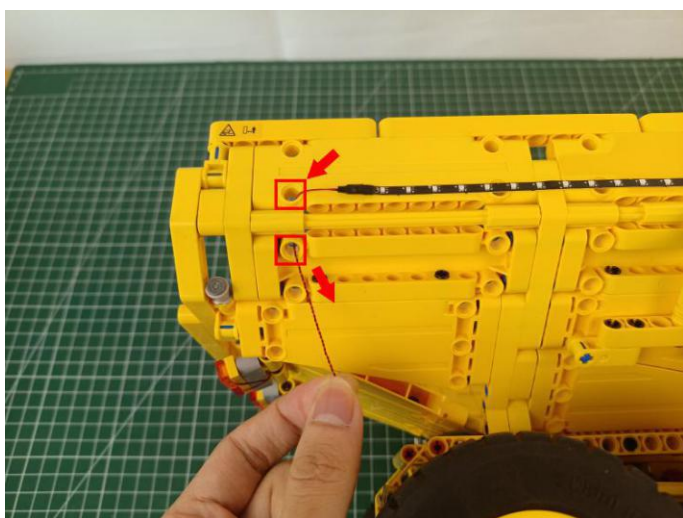
Turn the car to the other side.



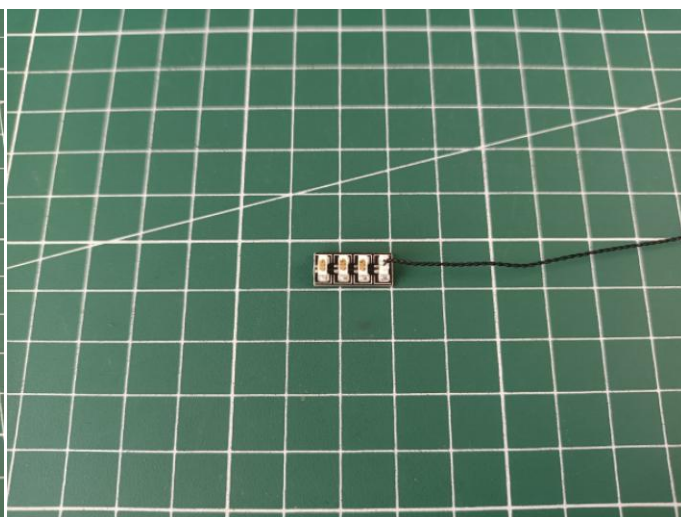
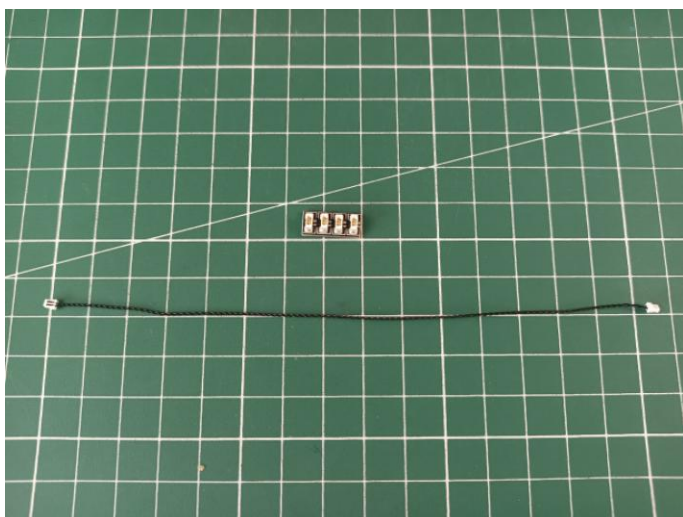
Stick the other strip light to the following place.



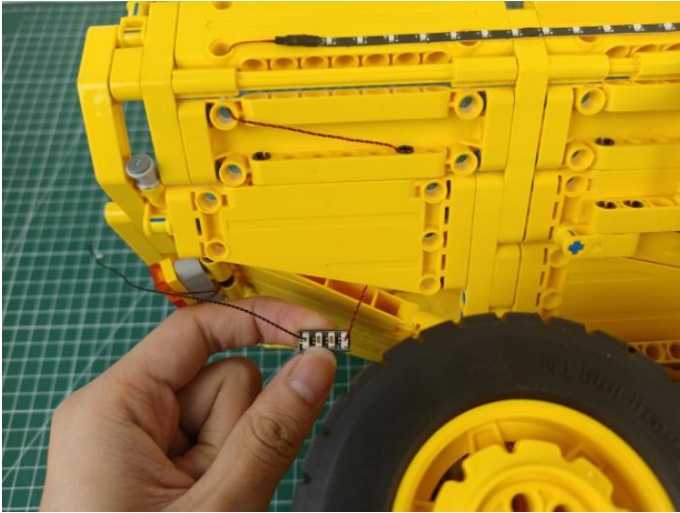
Thread the cable through the following hole.



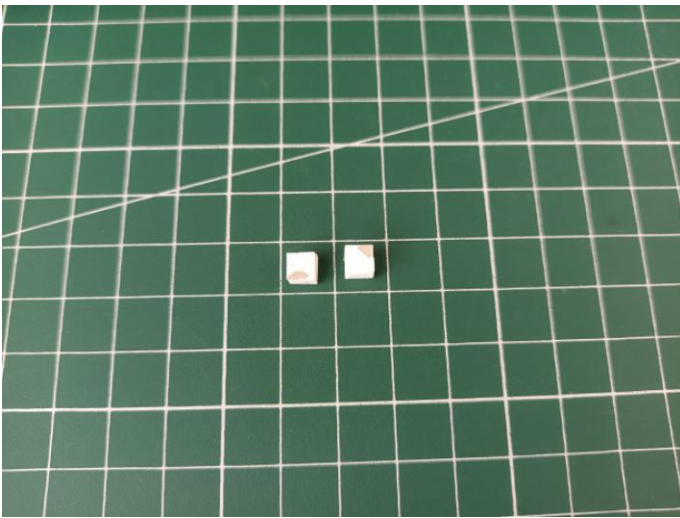
Take a 4-port expansion board, a 15cm connecting cable, assemble them as per below.



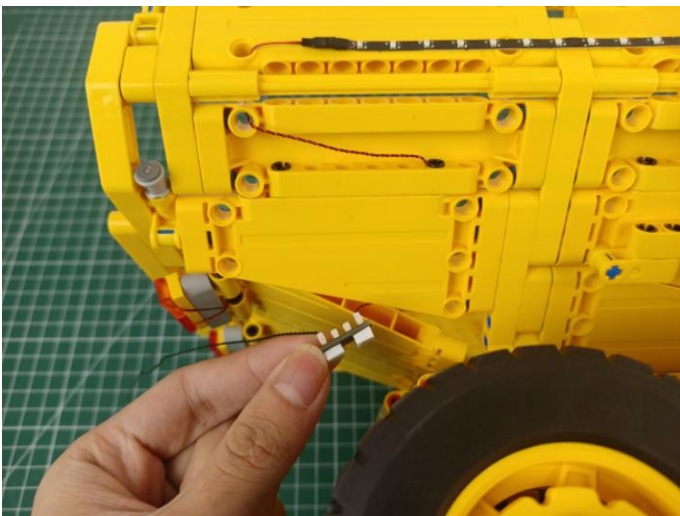
Connect the following cable to the expansion board.



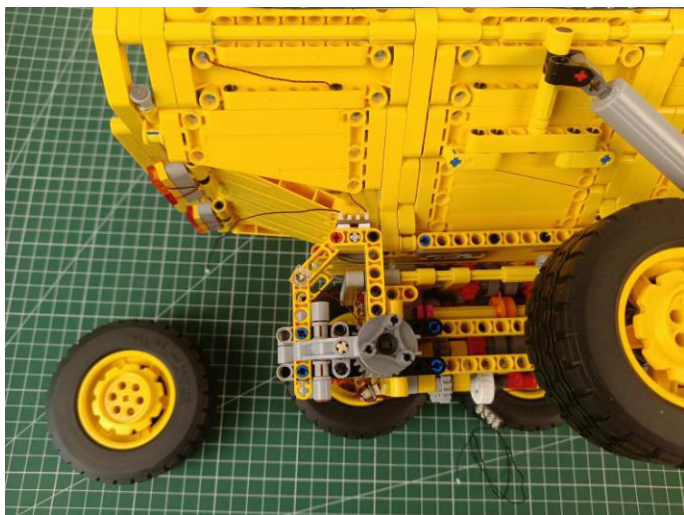
Take 2 adhesive squares.



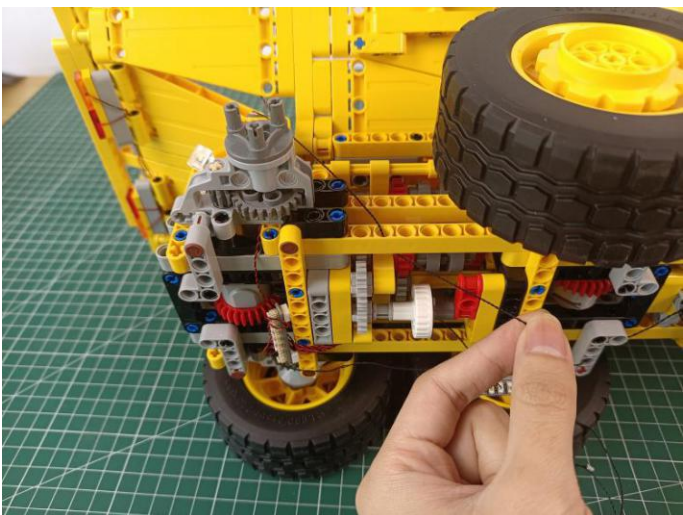
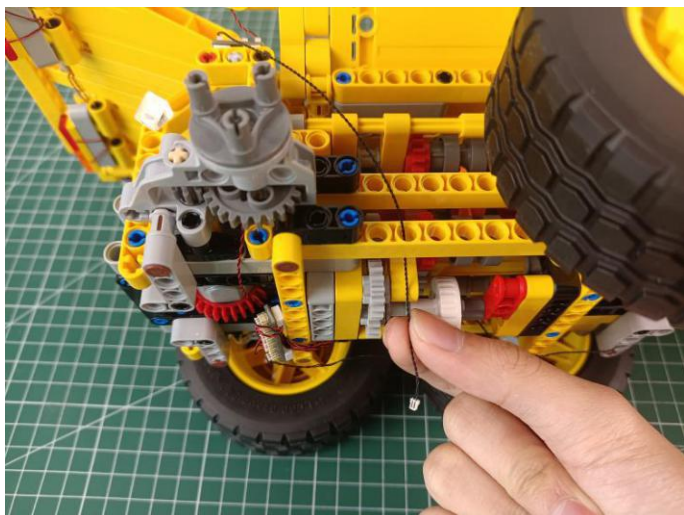
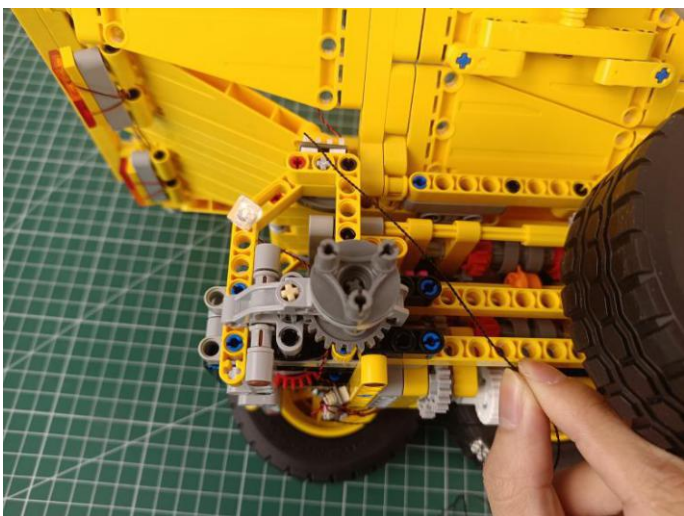
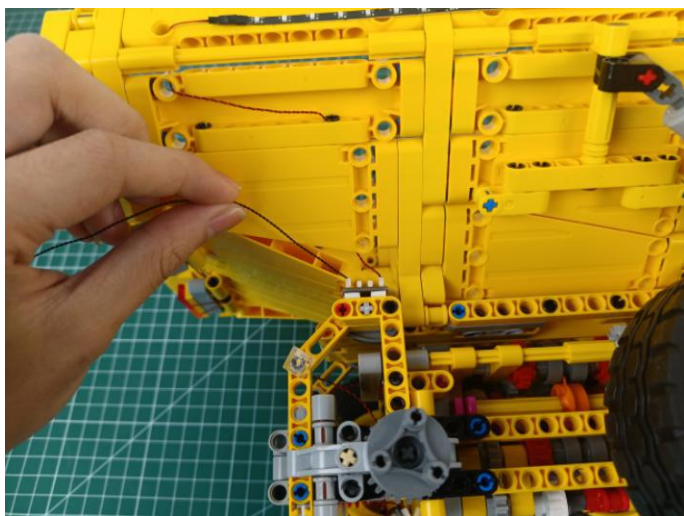
Stick them to the back of the expansion board, and stick the expansion board to the following place.



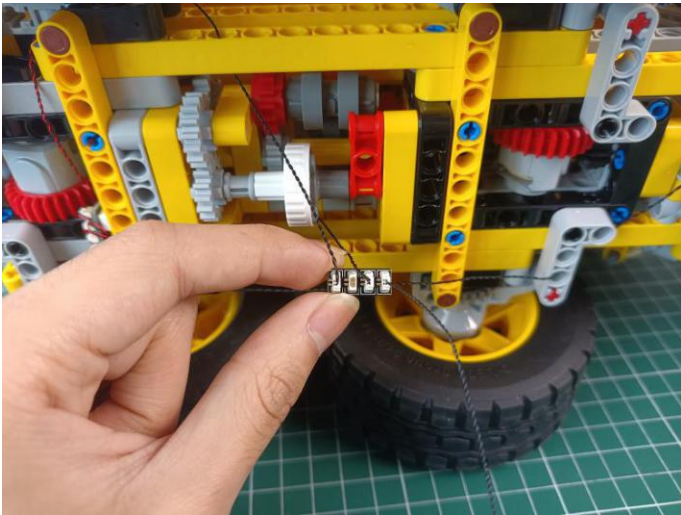
Remove the back wheel.



Thread the following cable through the hole.



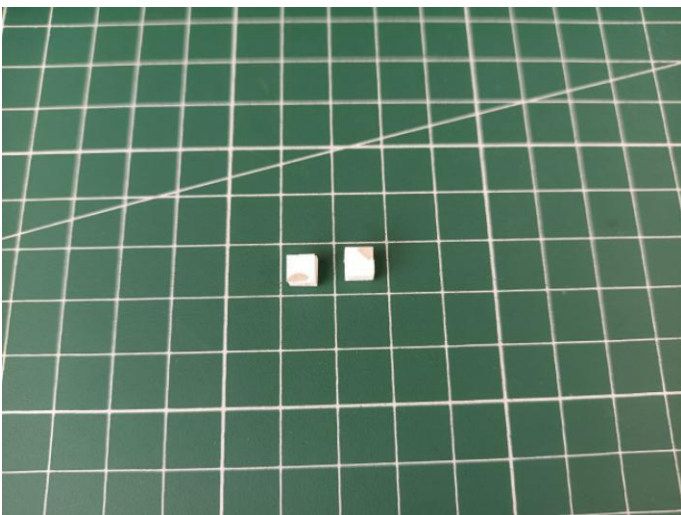
Turn to the bottom, connect the cable to the expansion board.



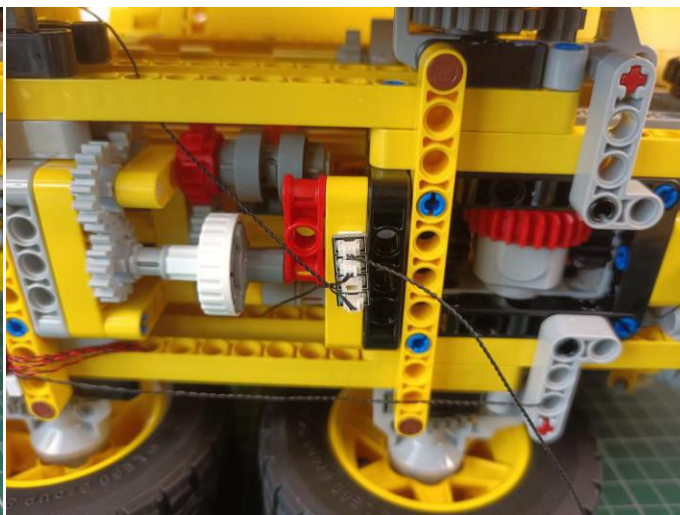
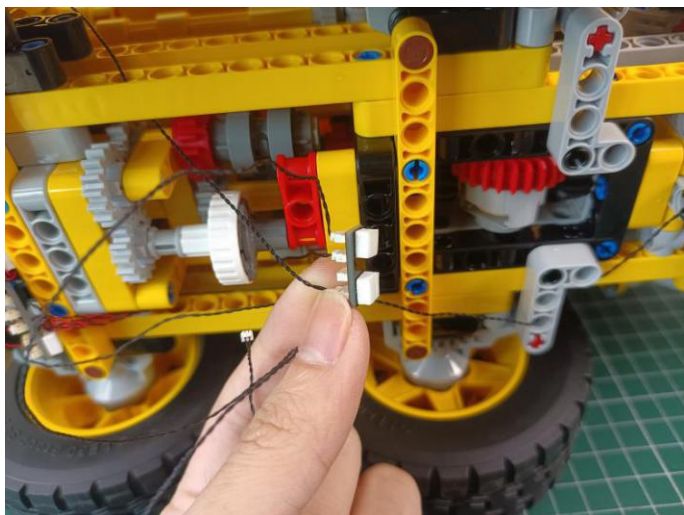
Reconnect the back wheel.



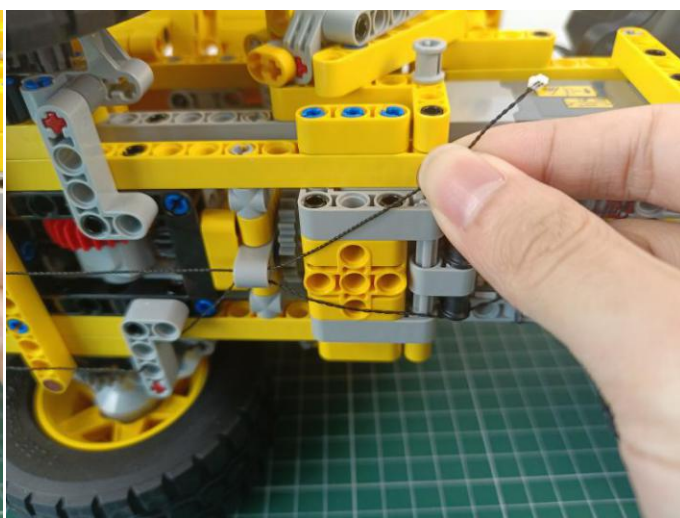
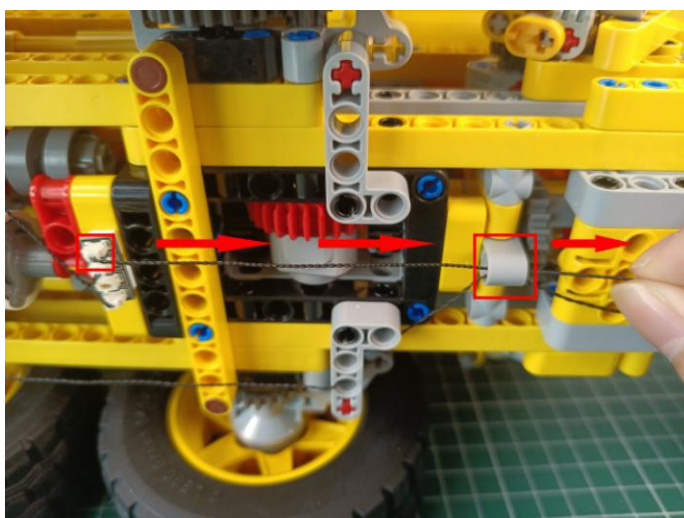
Take 2 adhesive squares.



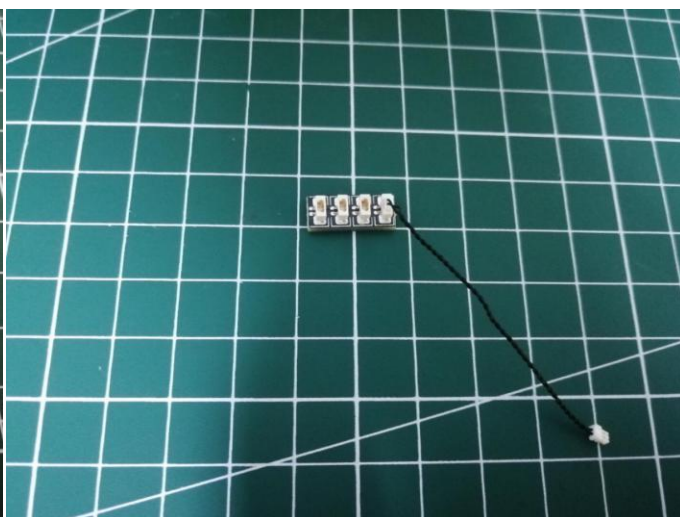
Stick them to the back of the expansion board, and stick the expansion board to the following place.



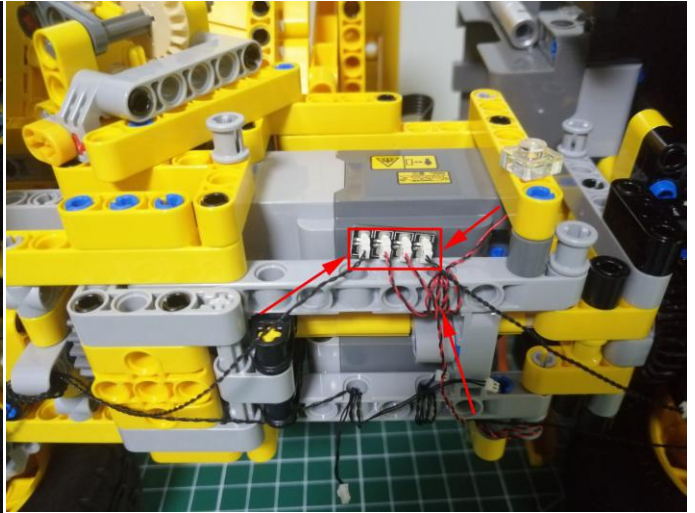
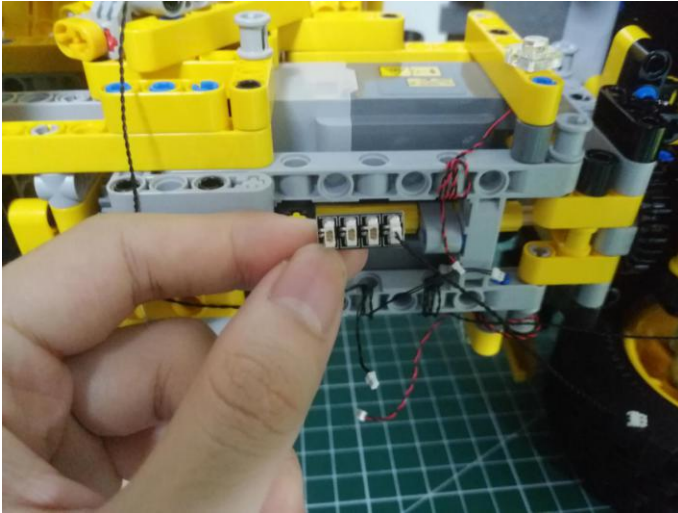
Thread the following cable through the hole.



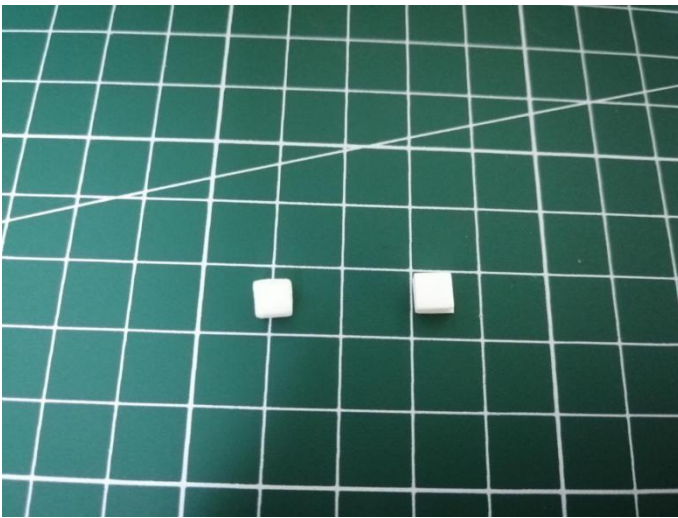
Take a 5cm connecting cable, a 4-port expansion board, assemble them as per below.



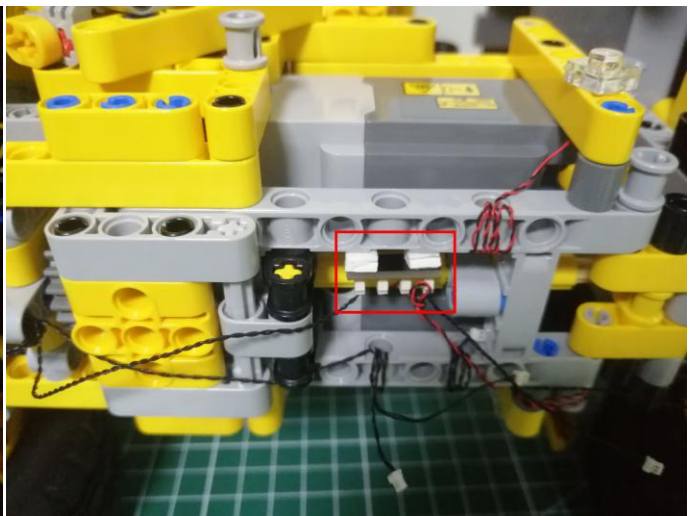
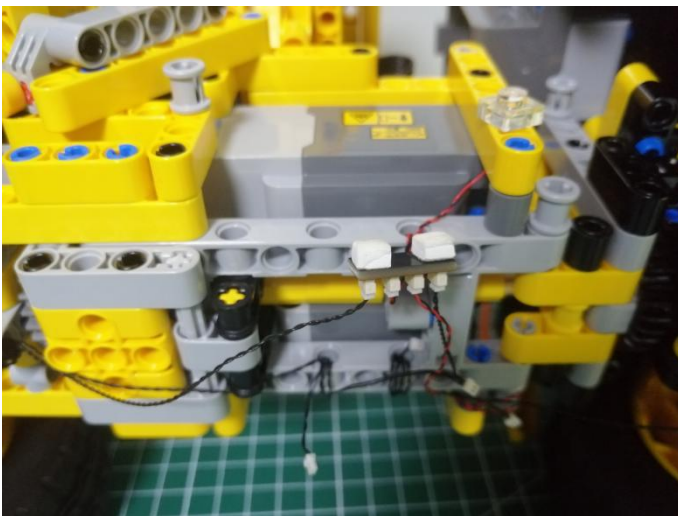
Connect the following red cable and black cable to the expansion board.



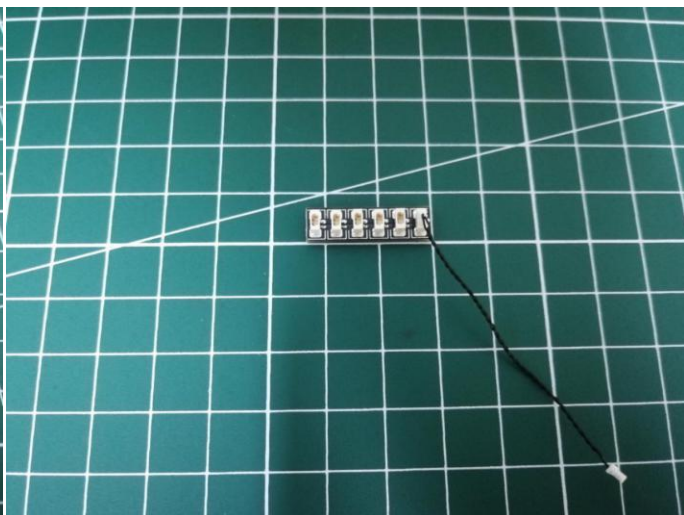
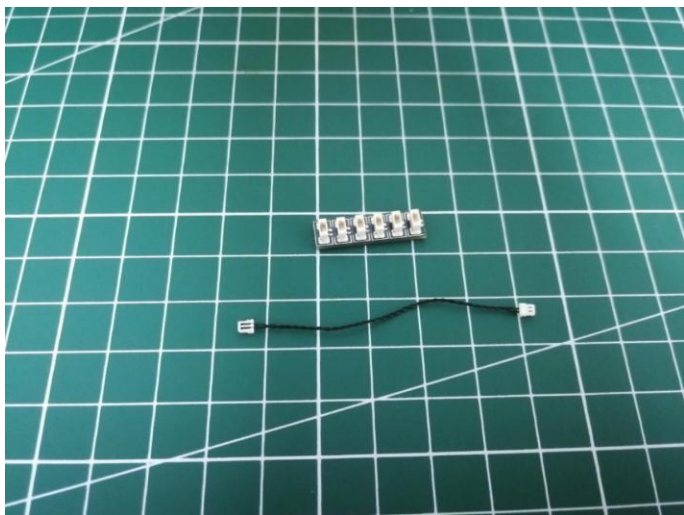
Take 2 adhesive squares.



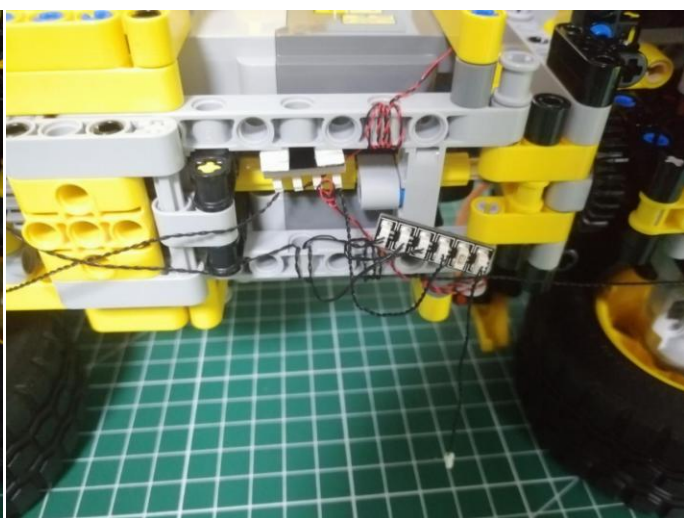
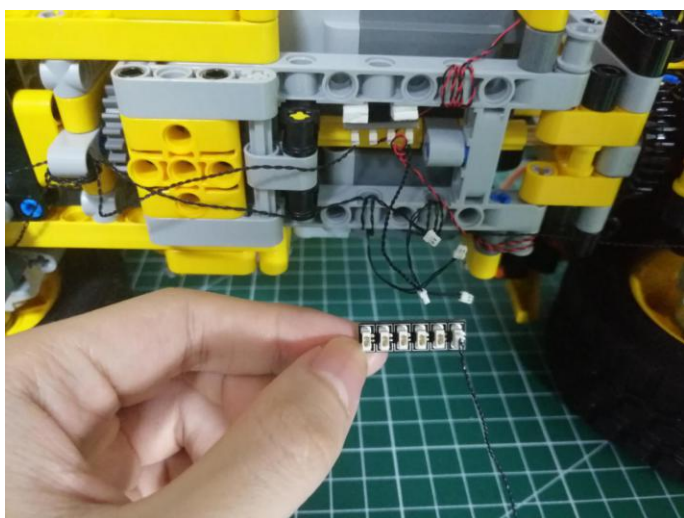
Stick them to the back of the expansion board, and stick the expansion board to the following place.



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



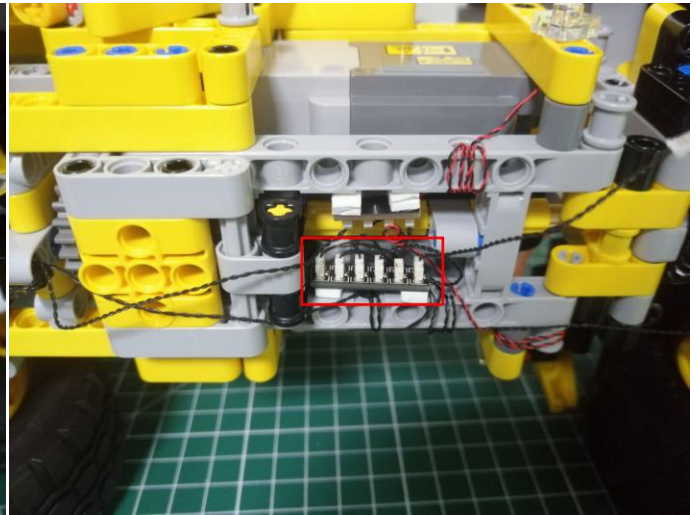
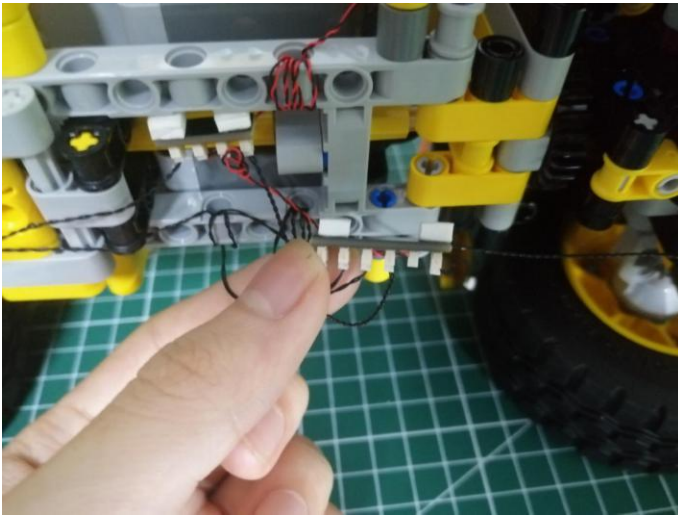
Connect the following cables to the expansion board.



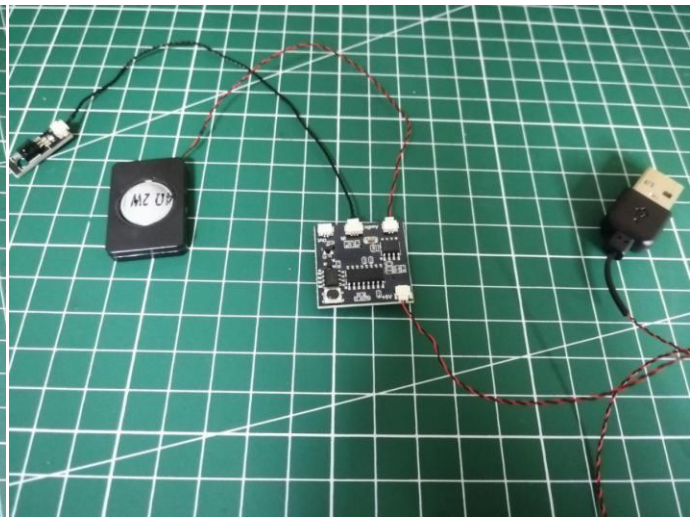
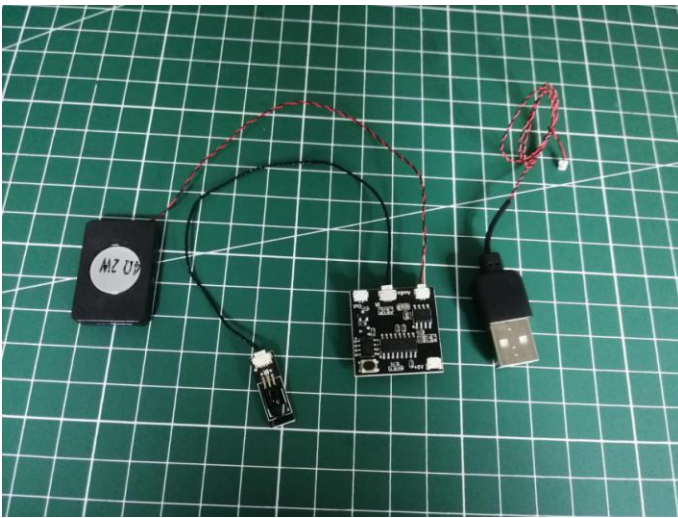
Take 2 adhesive squares.



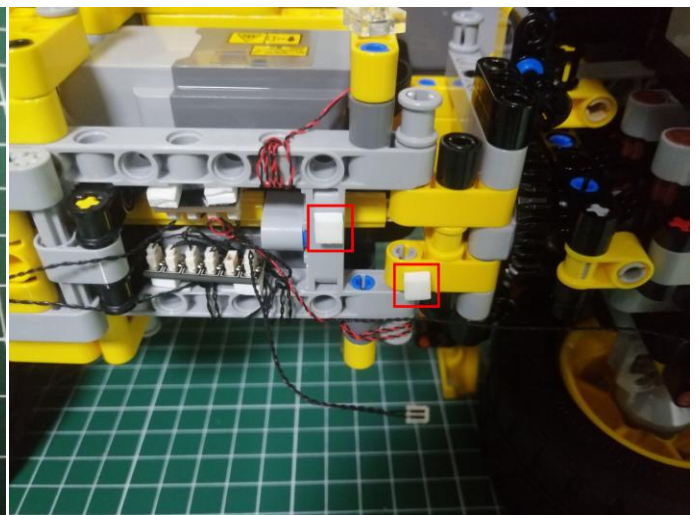
Stick them to the back of the expansion board, and stick the expansion board to the following place.



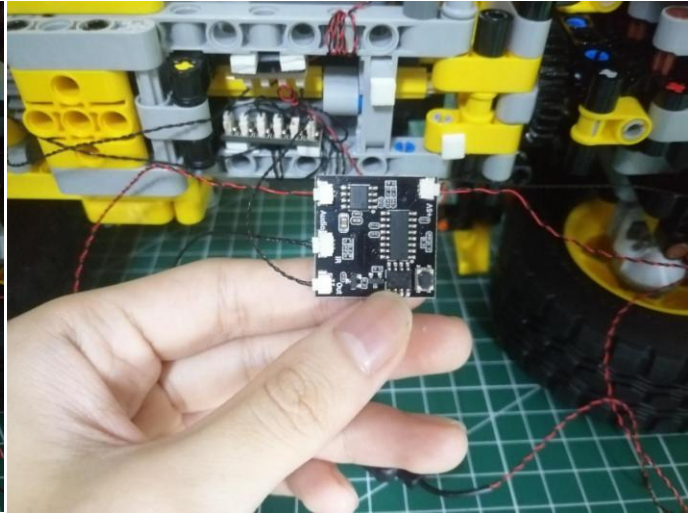
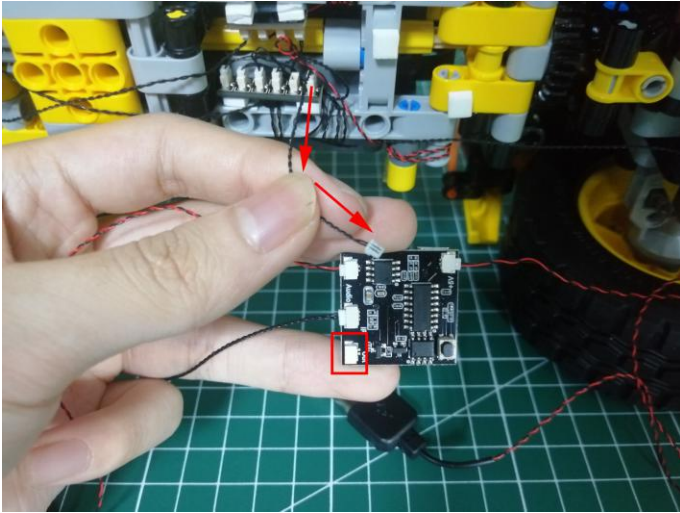
Take a USB cable, an Acousto-optic Control Switch Board, assemble them as per below.



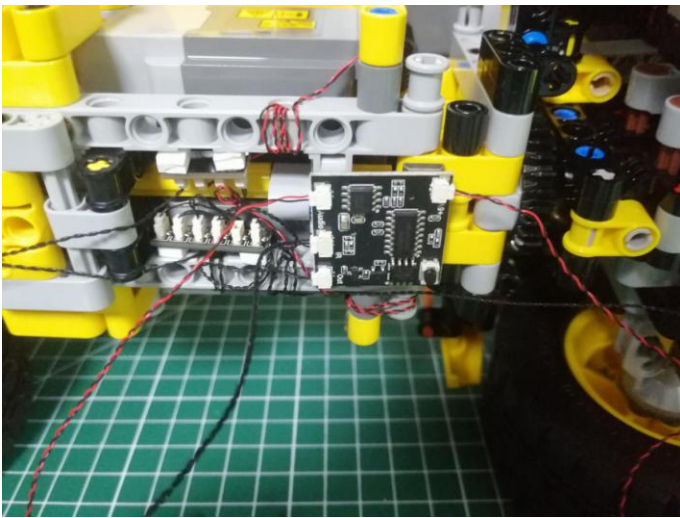
Take 2 adhesive squares, stick them to the following place.



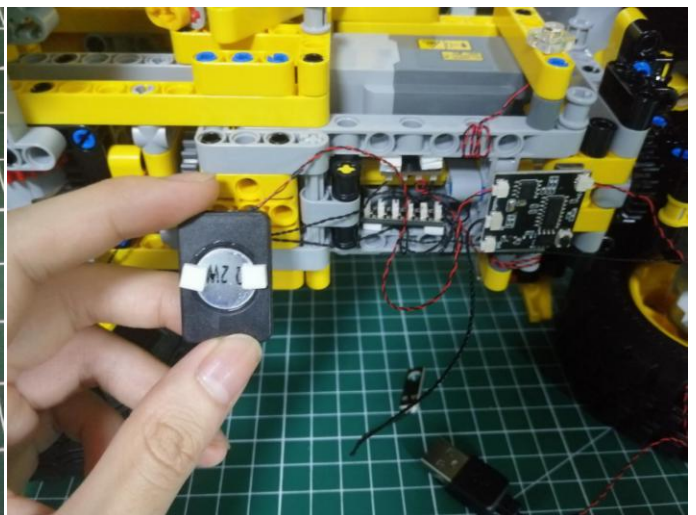
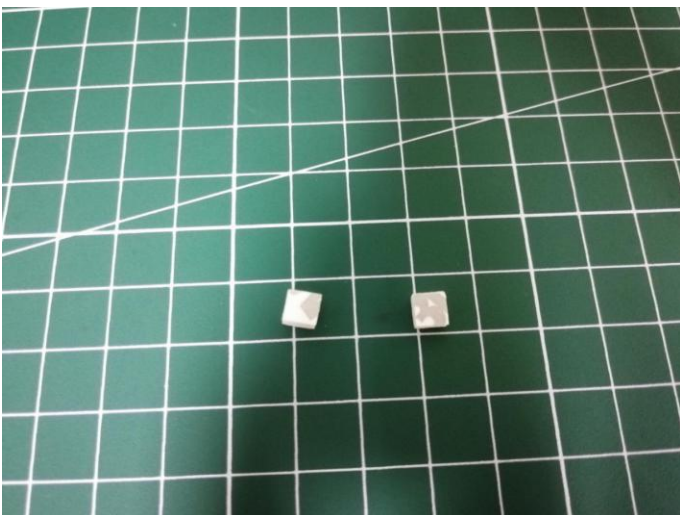
Connect the following connecting cable to the Acousto-optic Control Switch Board.



Stick the Acousto-optic Control Switch Board to the following adhesive square.



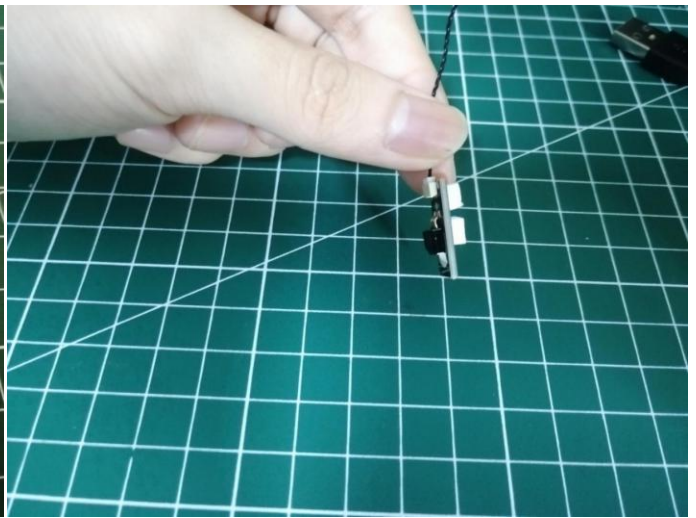
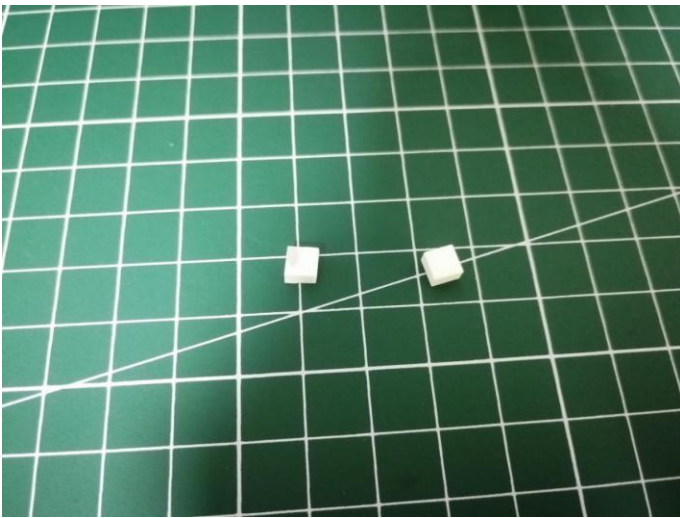
Take 2 adhesive squares, stick them to the back of the speaker.



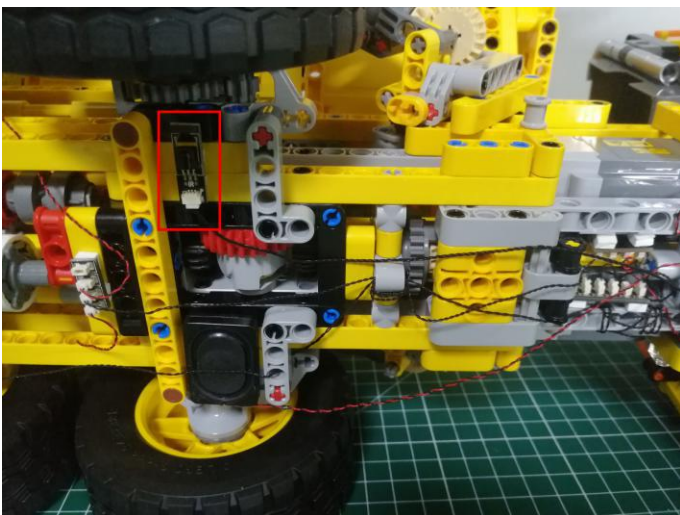
Stick the speaker to the following place.



Take 2 adhesive squares, stick them to the back of the signal receiver.



Stick the signal receiver to the following place.



This completes installation of this LED Lighting Kit. ENJOY!



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.