

4X4 X-treme Off-Roader 42099 Basic Version Lighting Kit

Package contents:

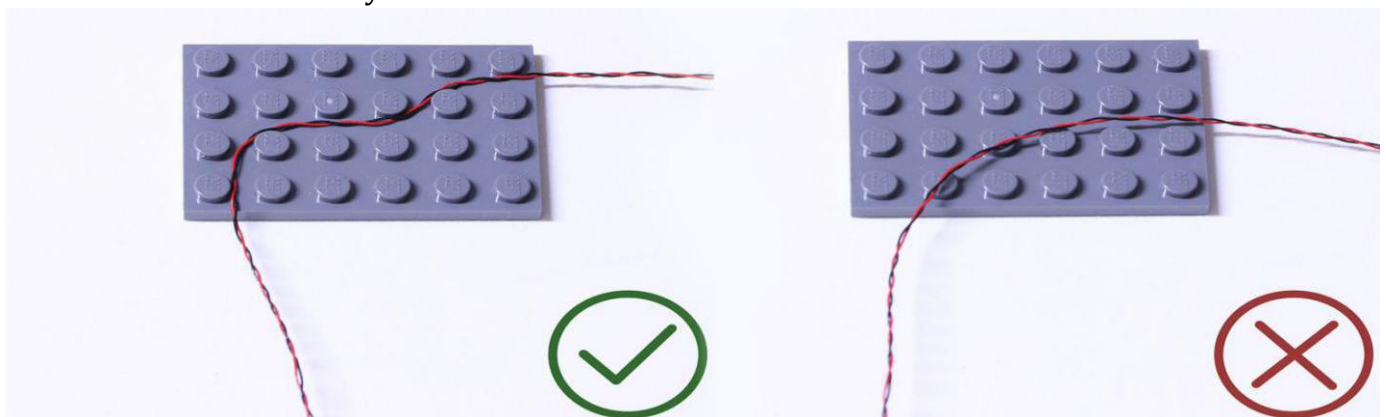
- 12 x 15cm Warm White Dot Lights
- 4 x 30cm Warm White Dot Lights
- 2 x 15cm Blue Dot Lights
- 2 x 30cm Blue Dot Lights
- 2 x 30cm Warm White Light
- 1 x Warm White Strip Light
- 1 x Blue Strip Light
- 2 x 5cm Connecting Cables
- 3 x 15 cm Connecting Cables
- 3 x 6-port Expansion Boards
- 1 x 12-port Expansion Board
- 1 x AAA Battery Pack

Extra LEGO pieces

Note:

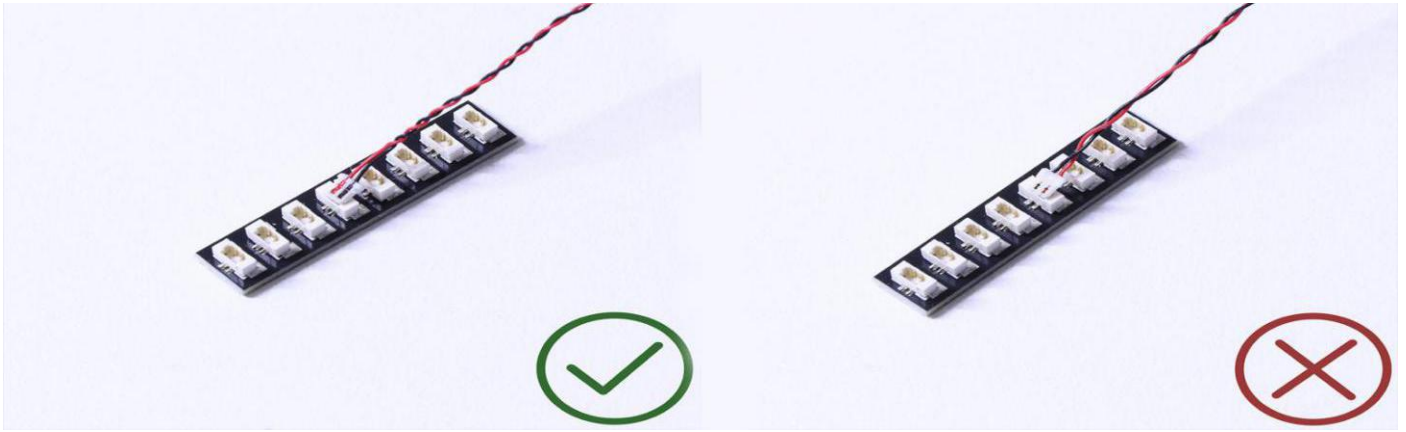
Place wires on the surface or under the LEGO building blocks.

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

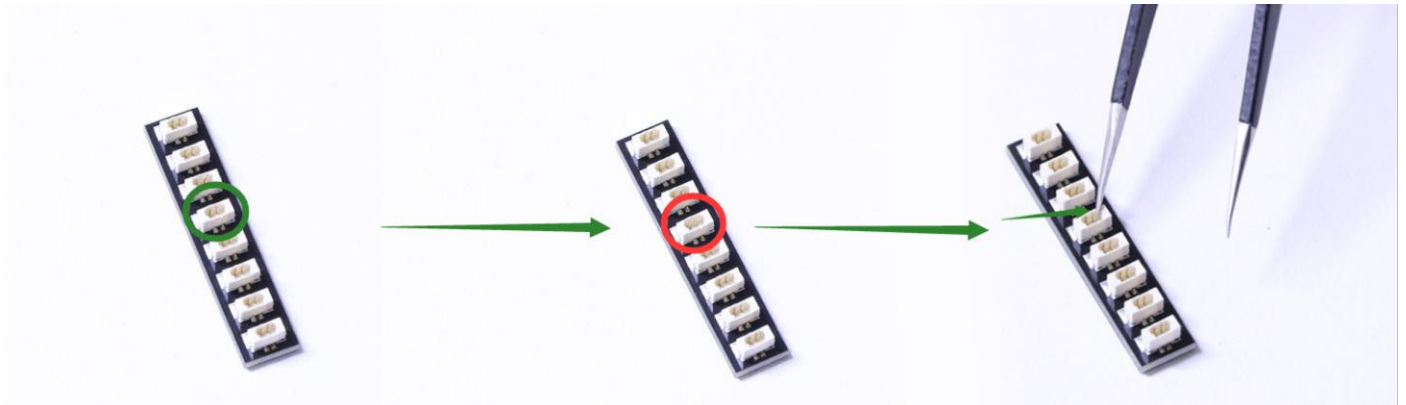


Insert the connectors to the ports.

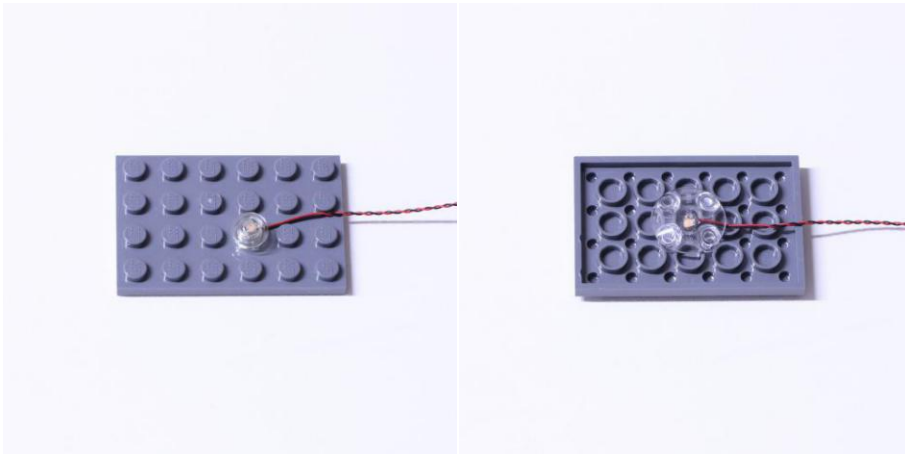
Be careful when you are operating, there's only one correct way to insert, make sure the expansion board is upward, find the soldered "=" sign on the left of the port. When you are inserting, the side which the wires can be seen should be faced to the "=" sign and if you feel hard to insert, please stop,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

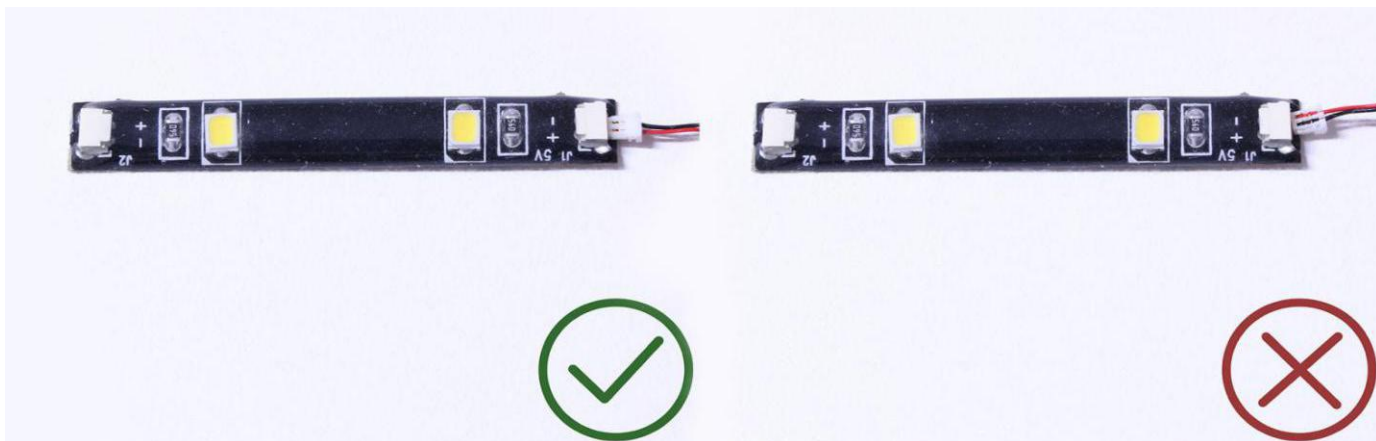


When installing dot lights, make sure they are correctly placed (Yellow LED package is exposed). You can put them either on the top of the studs or between studs.

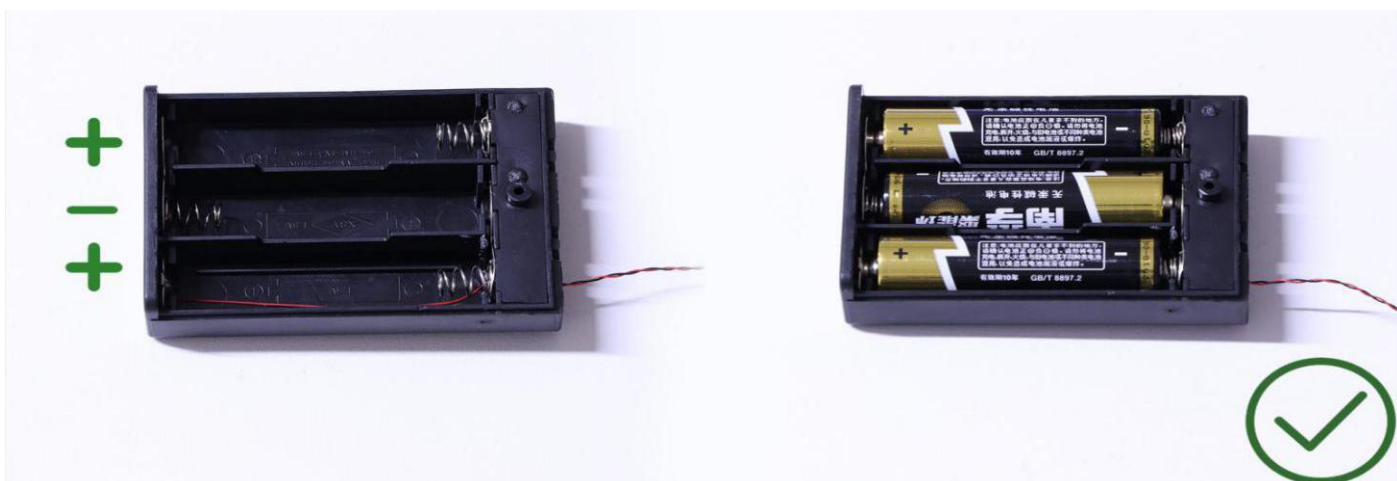


Connecting cable connectors to Strip Lights

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.



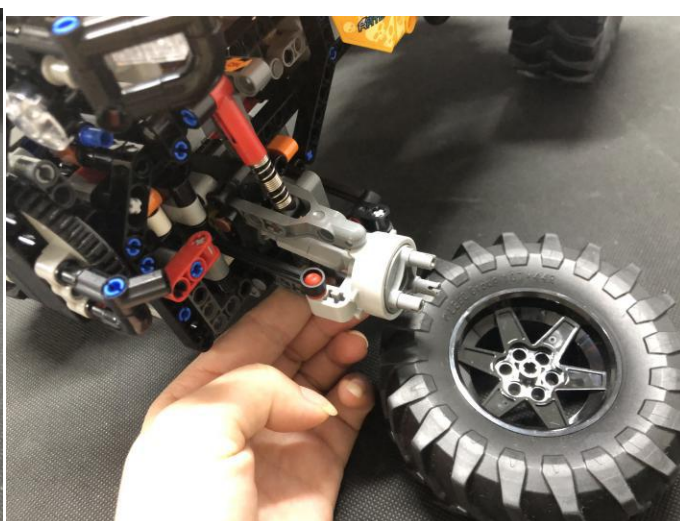
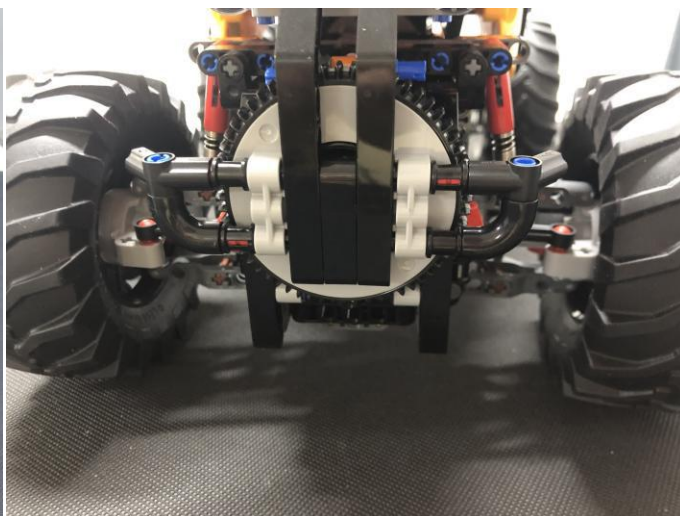
Finally, please pay attention to the positive and negative terminals of the battery when installing the battery case.



Instructions for installing this kit:

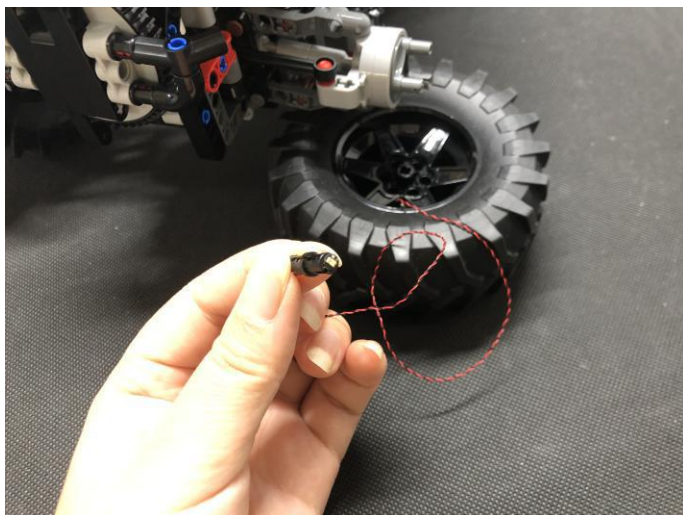
OK, Let' s Begin!

Start from installing lights for the tires, remove a front tire



Take a blue 30cm dot light, a trans 1x1 round plate, a black bolt. thread the light through the bolt, pull the cable till the light is placed against the end of the bolt, secure the light with the trans round piece

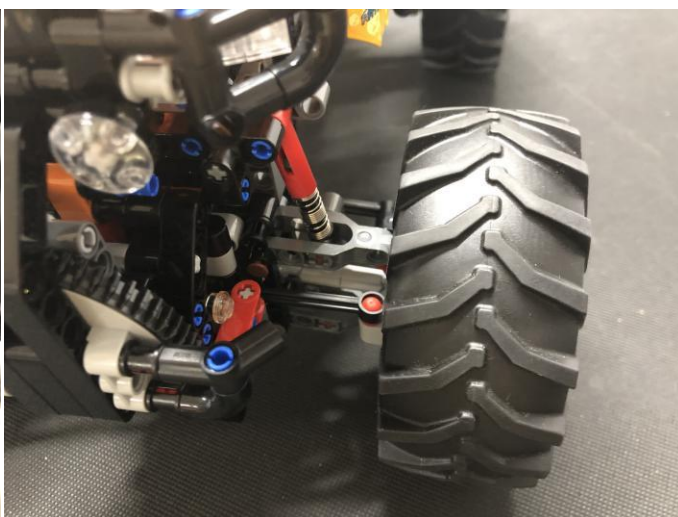




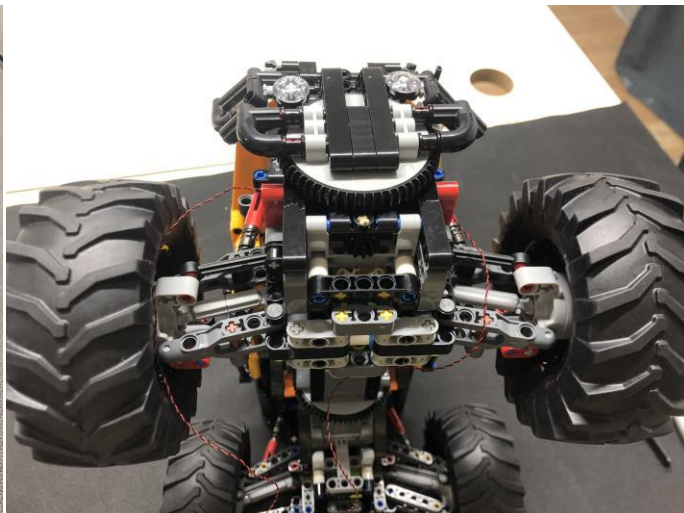
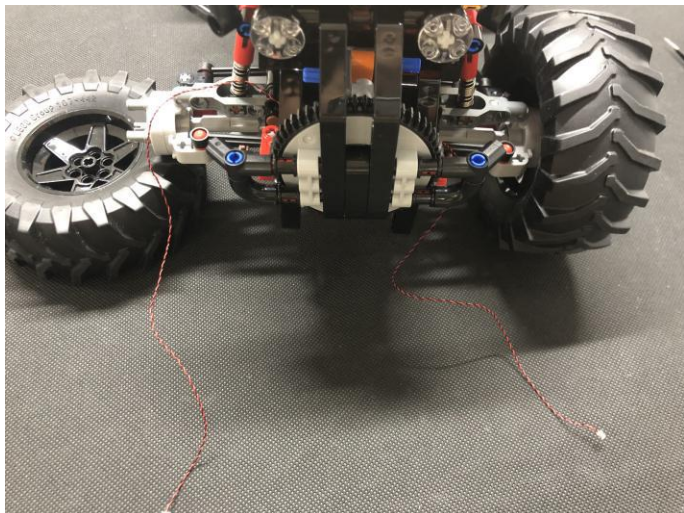
Thread the light through the following hole, pull the cable out from the left side



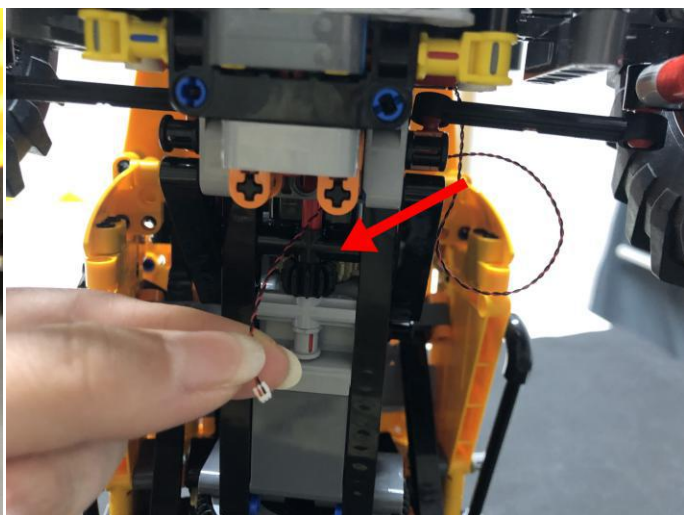
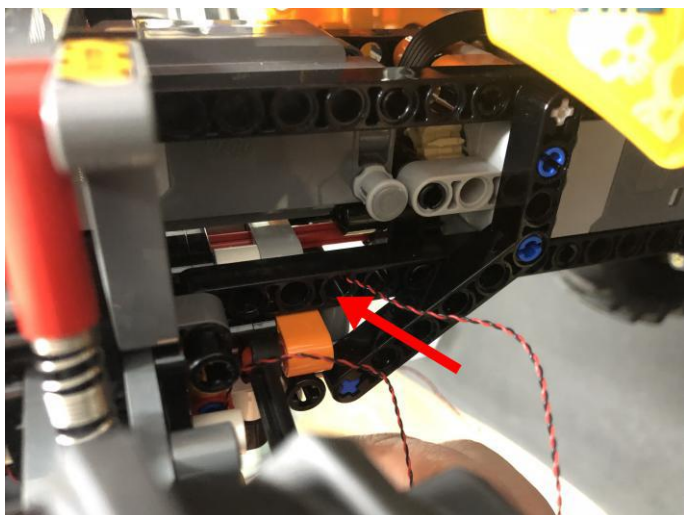
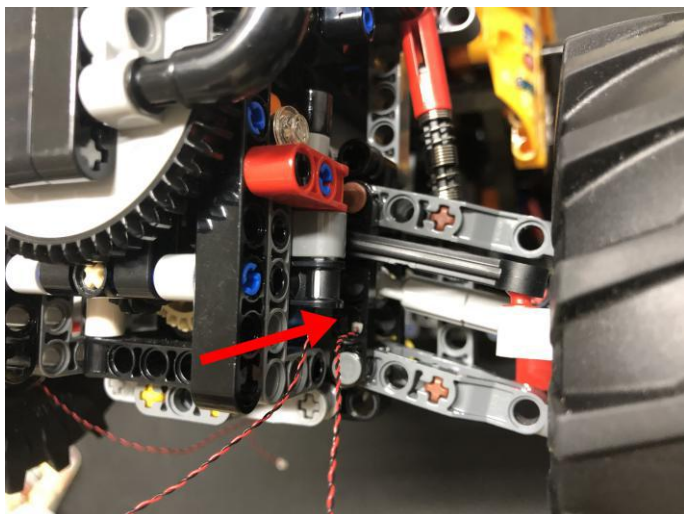
Secure the bolt to the following place, reconnect the tire



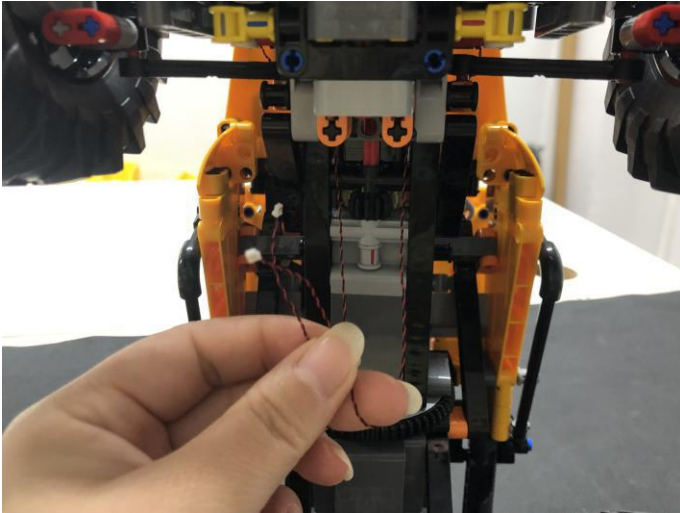
Take a 30cm blue dot light, a trans 1x1 round plate, a black bolt, repeat the steps above to install light for another tire



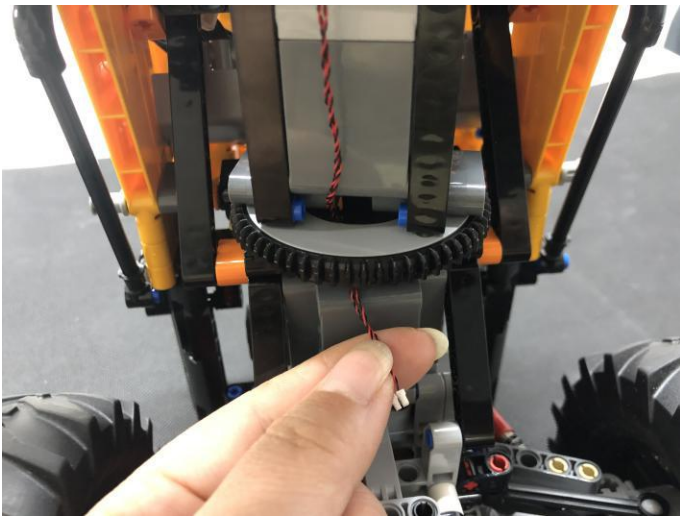
Thread the cable through the following hole and pull it out from the bottom of the car



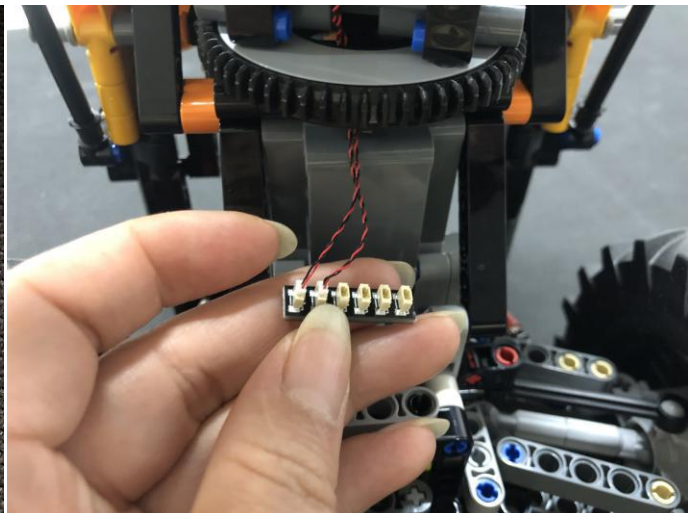
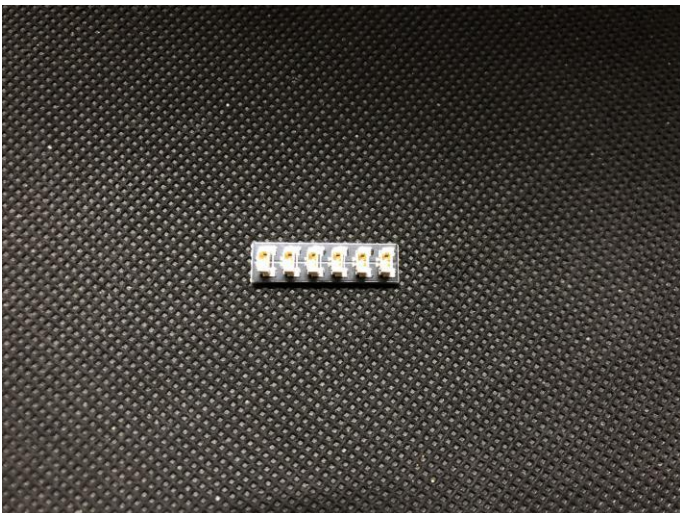
follow the previous steps to thread the other cable to the bottom



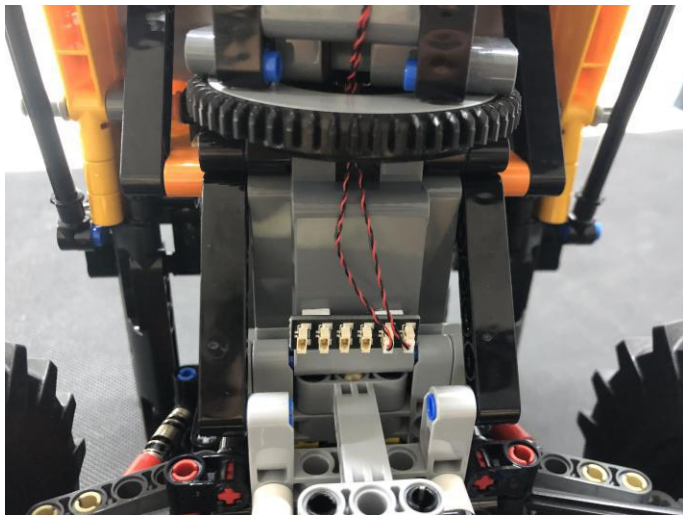
Group the 2 cables together, thread them through the following hole



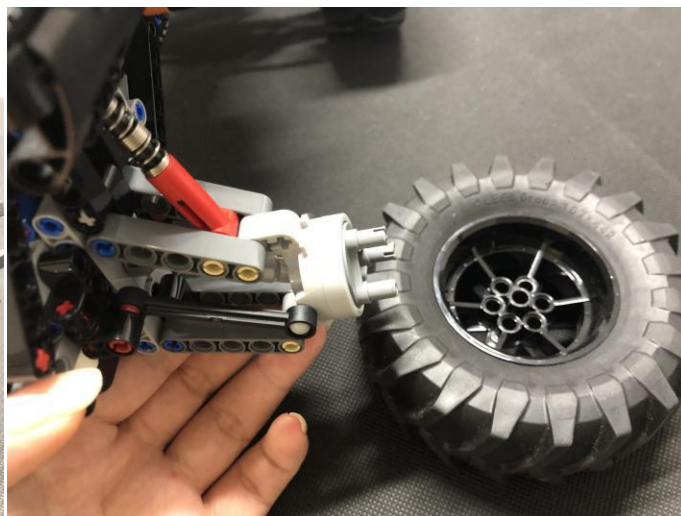
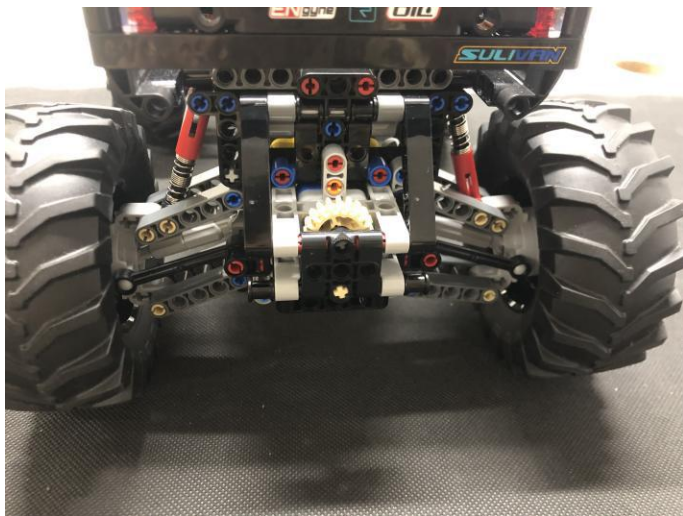
Take a 6-port expansion board, connect the 2 cables to the expansion board



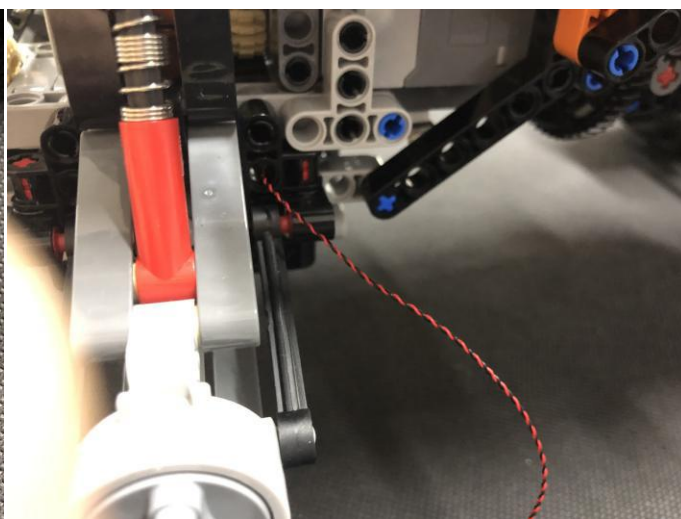
Stick the expansion board to the bottom of the car with the adhesive squares

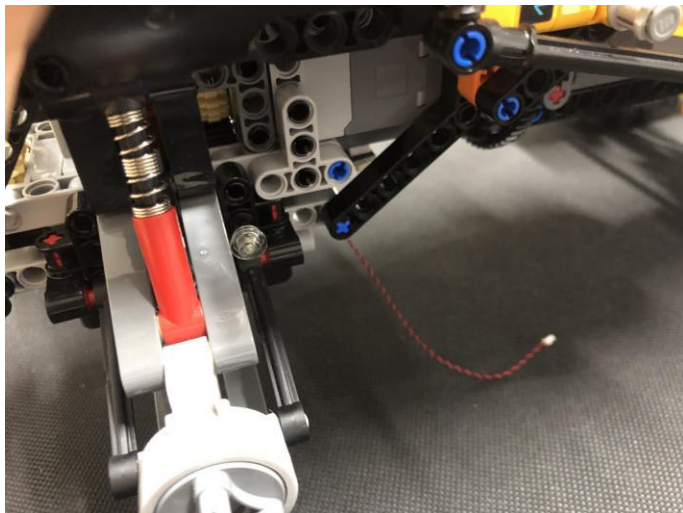


Move onto install lights for the rear tires

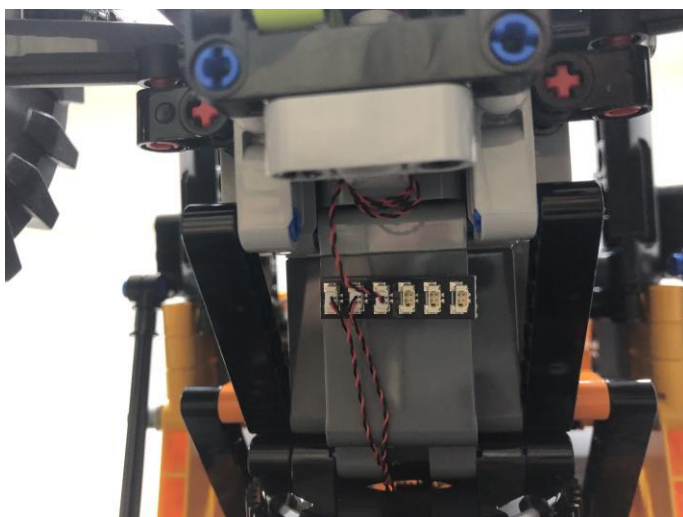
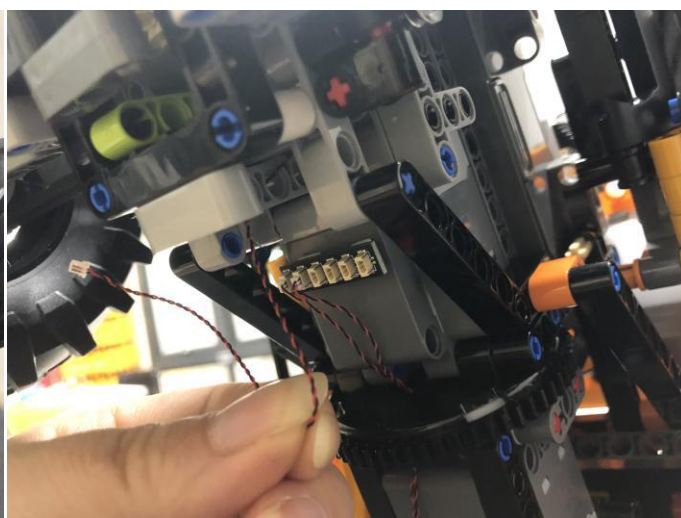
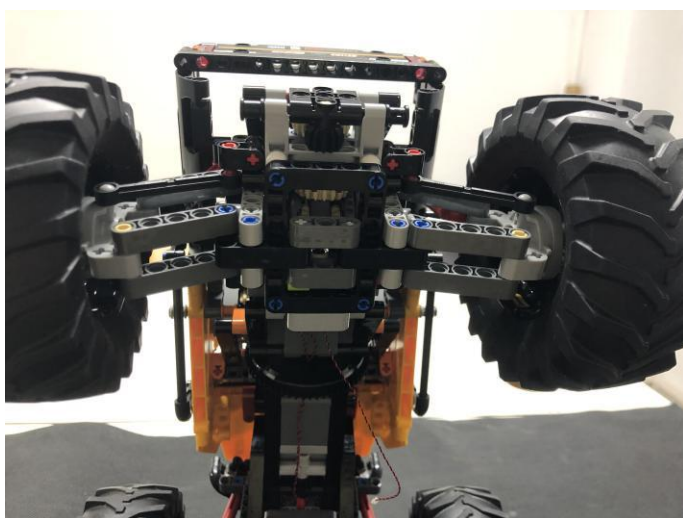


Take a blue 15cm dot light, a trans 1x1 round plate, a black bolt, repeat the steps we did before for installation of the front tire to install lights for the rear tire. Then, thread the cable through the following hole, place the light at the following position, reconnect the tire

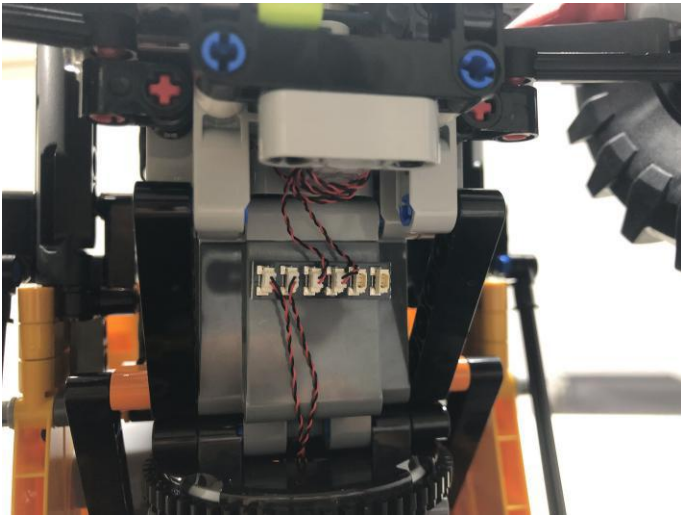




Place the car upright, pull the cable to the bottom of the car, and connect it to the expansion board



Take a blue 15cm dot light, a trans 1x1 round plate, a black bolt, repeat the steps above to install light for the other rear tire



Move onto installing the headlights



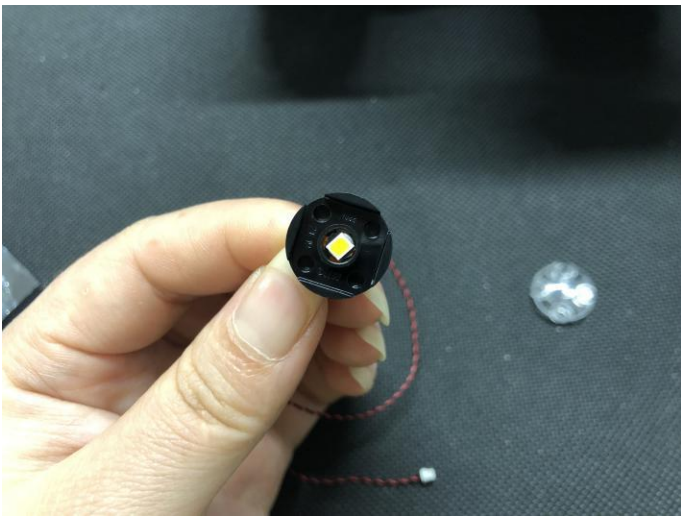
Remove the bigger headlight, disassemble it as per below



Take a warm white 30cm light



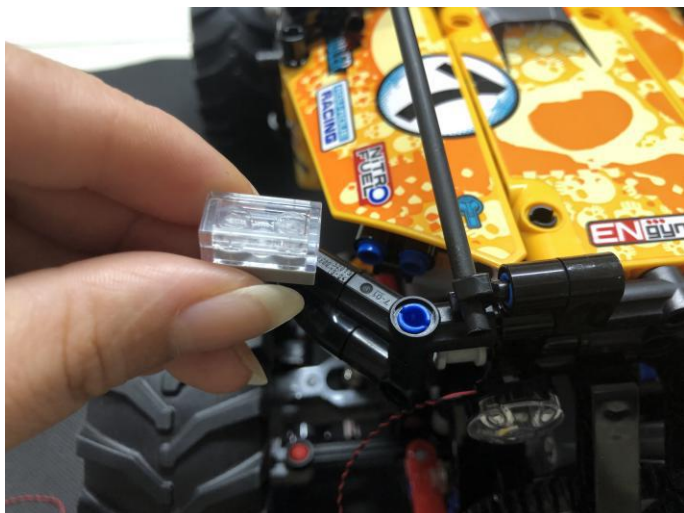
Thread the light through the black piece, reconnect the 2x2 trans piece to secure the light



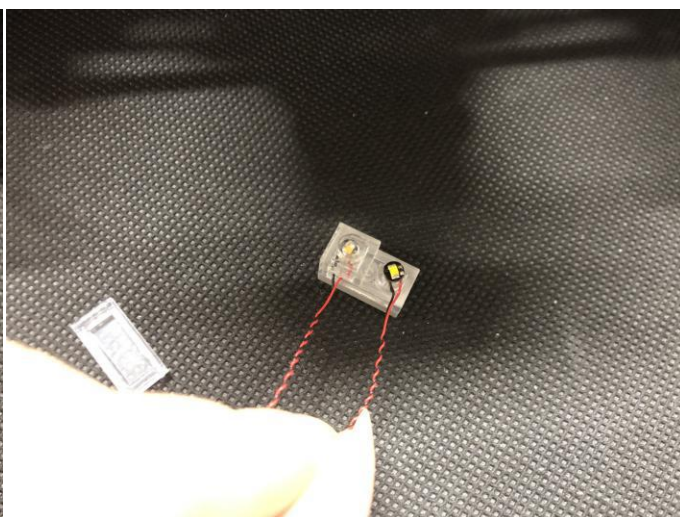
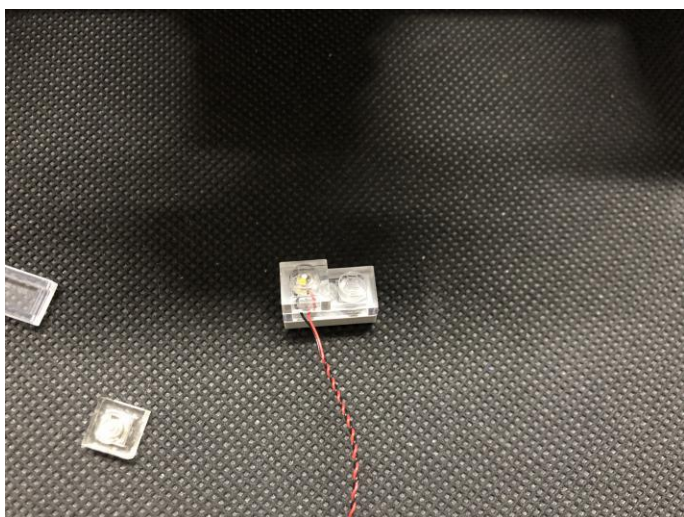
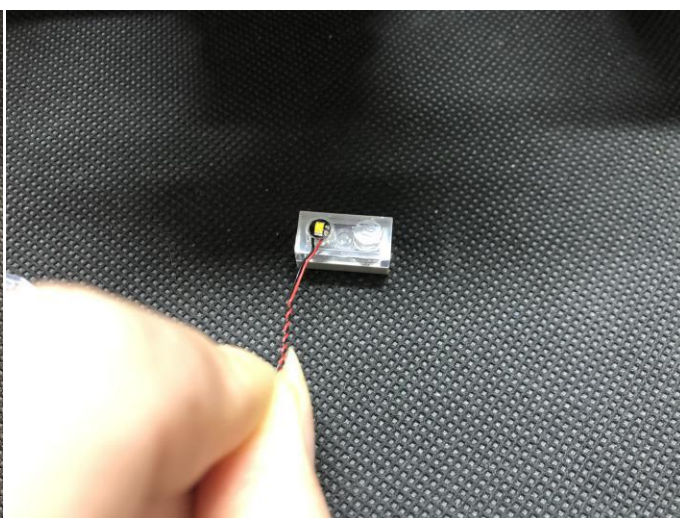
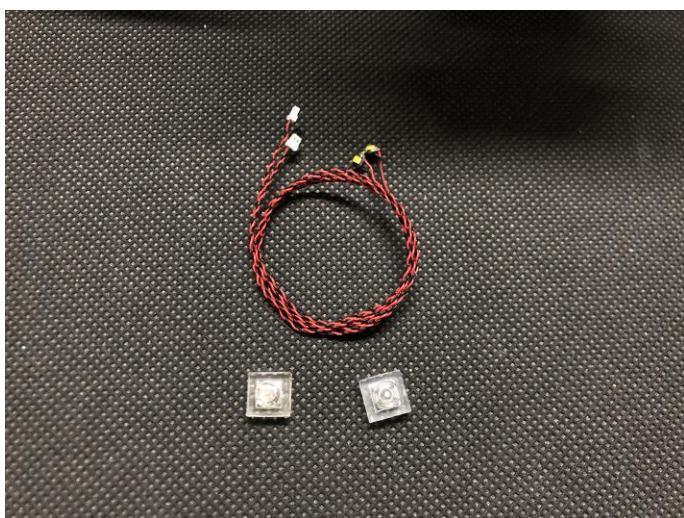
Reconnect the bigger light

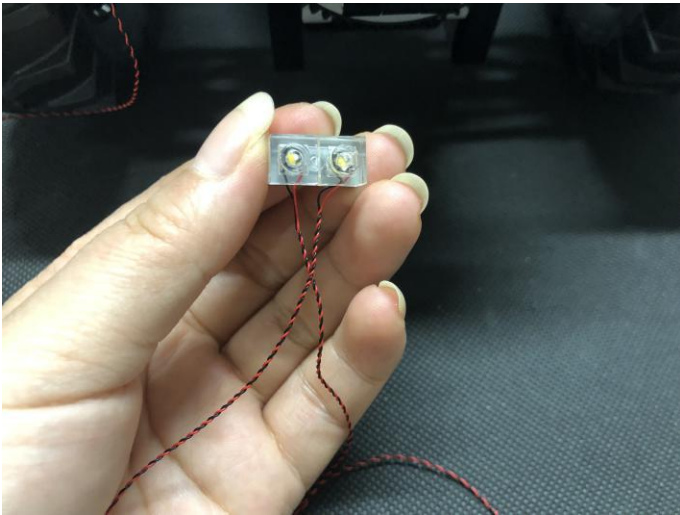


Remove the smaller one, disassemble it as per below

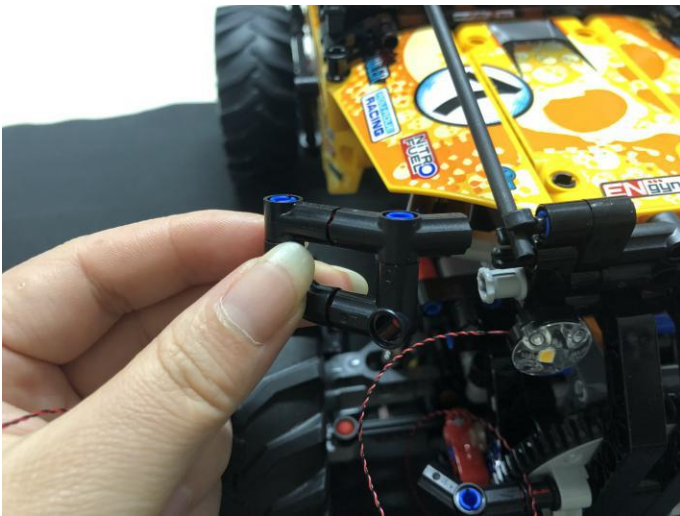


ake 2 warm white 30cm dot lights, two 1x1 base plates. With lighting part facing up, connect the lights to the piece as per below, secure the lights with the 1x1 plates

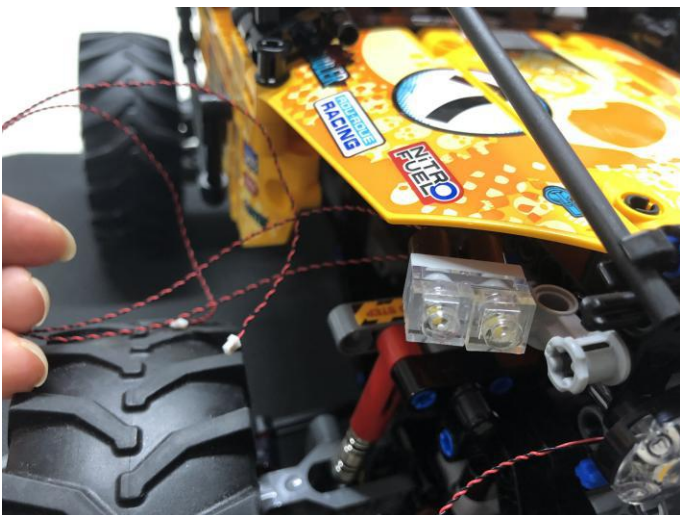




Remove the following piece, thread the cable through the blur piece

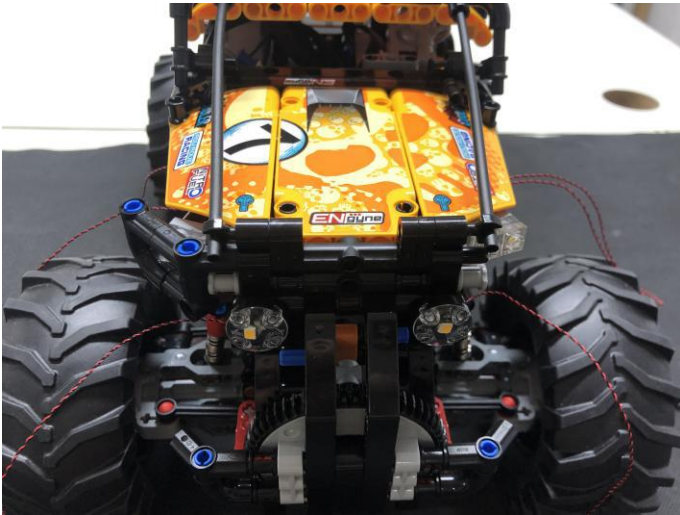


Reconnect the light and the piece we removed before

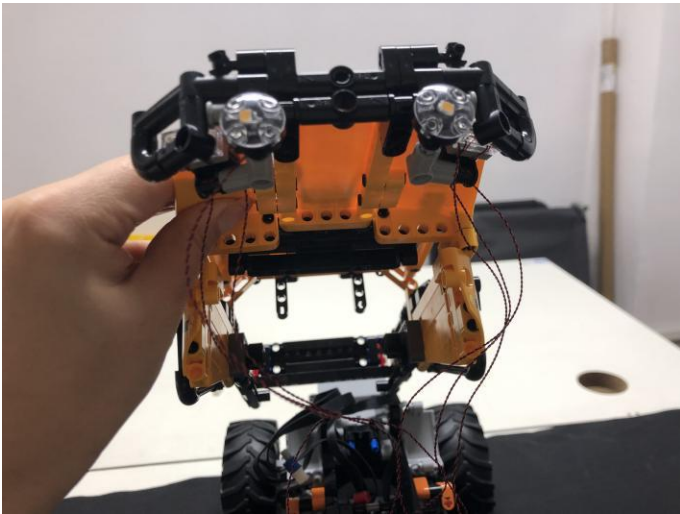


Take a warm white 30cm light

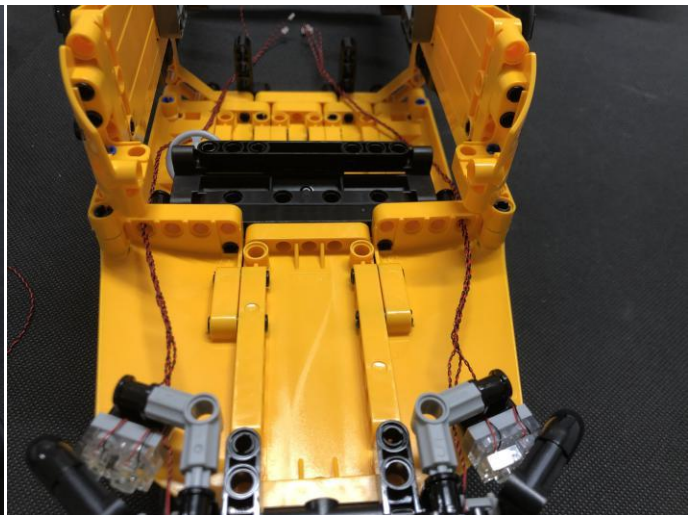
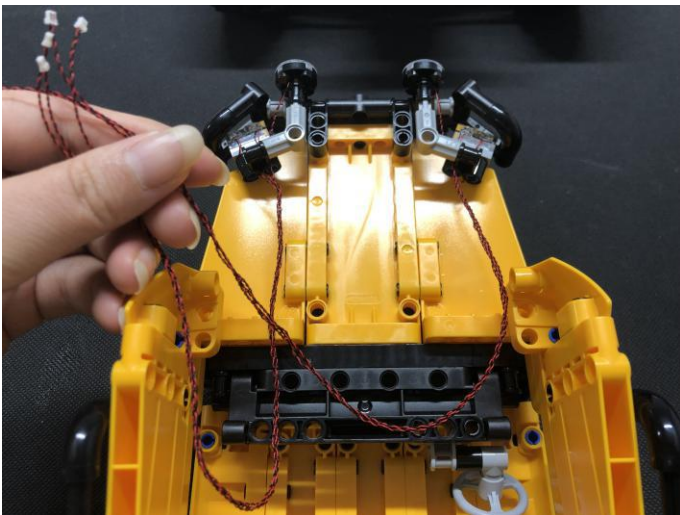
Take 2 warm white 30cm dot light, two 1x1 base plates, repeat the steps above to install the headlights at the other side



Remove the roof



Pull the cables of the headlights backward, thread the cables through the following hole



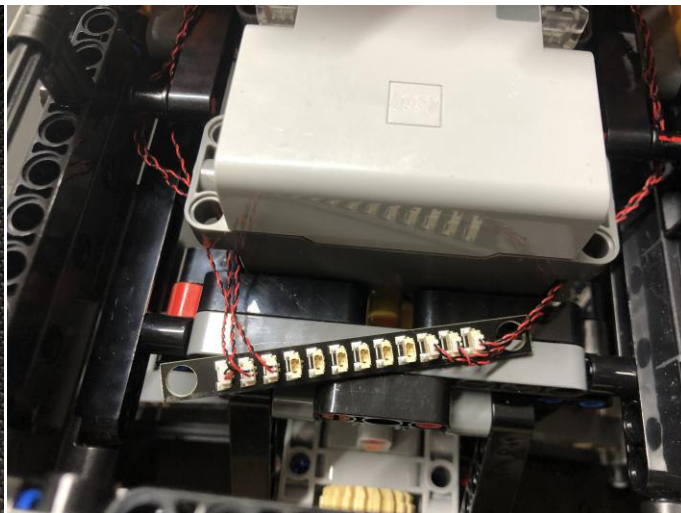
Reconnect the roof



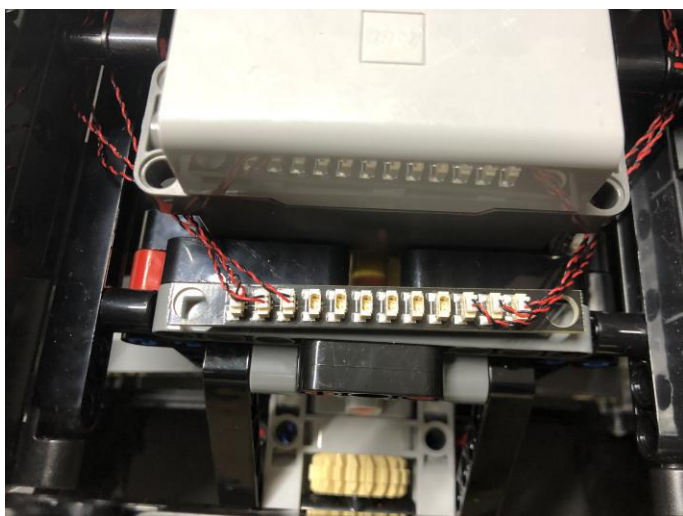
Pull the cables to the trunk, hide the cables under the widow as per below



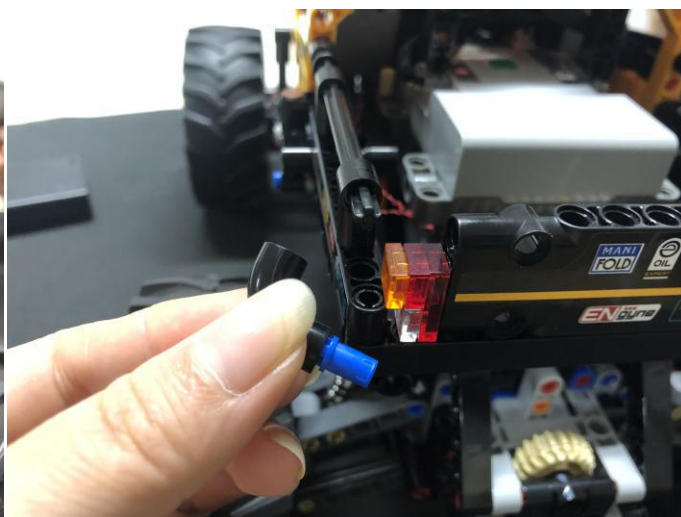
Take a 12-port expansion board, connect the cables of the headlights to the expansion board



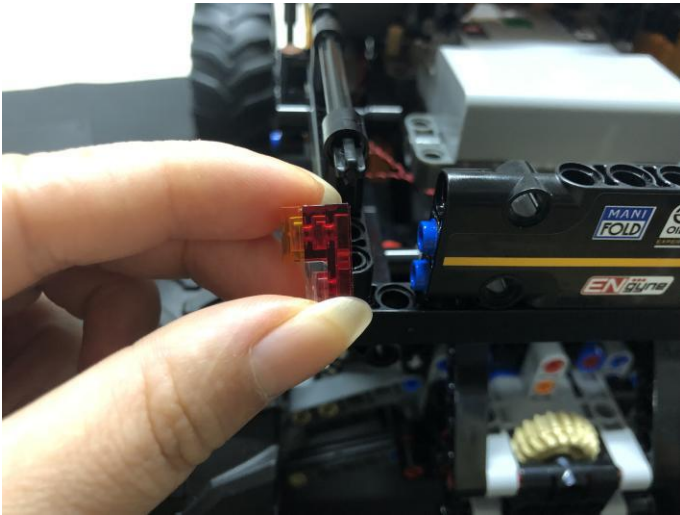
Stick the expansion board to the following place with the adhesive squares



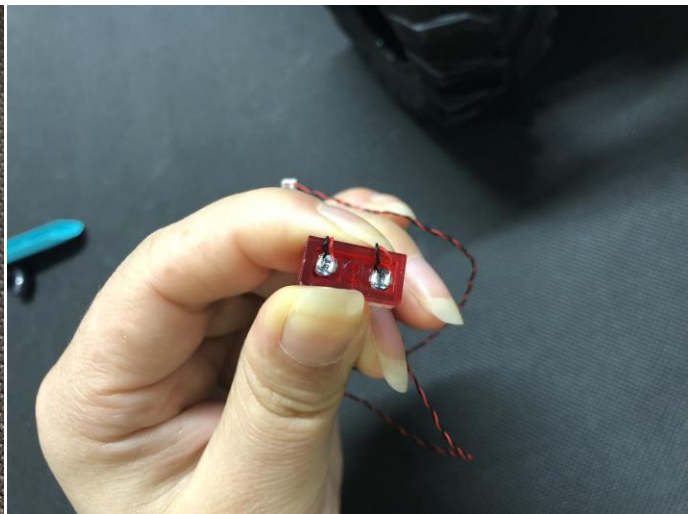
Continue to install the taillights, remove the following piece



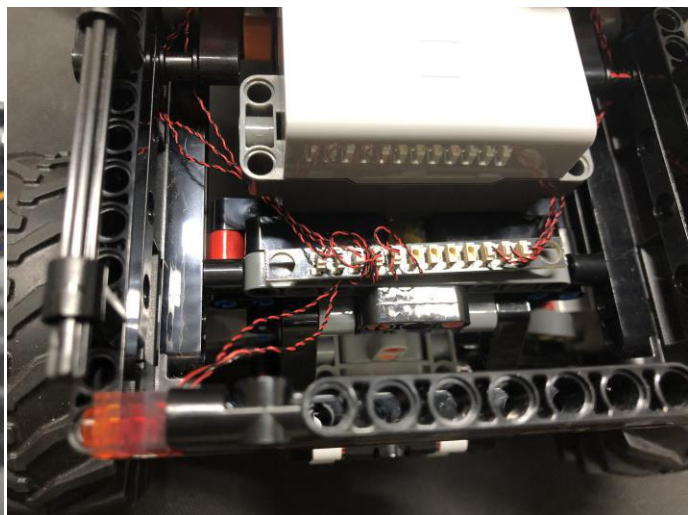
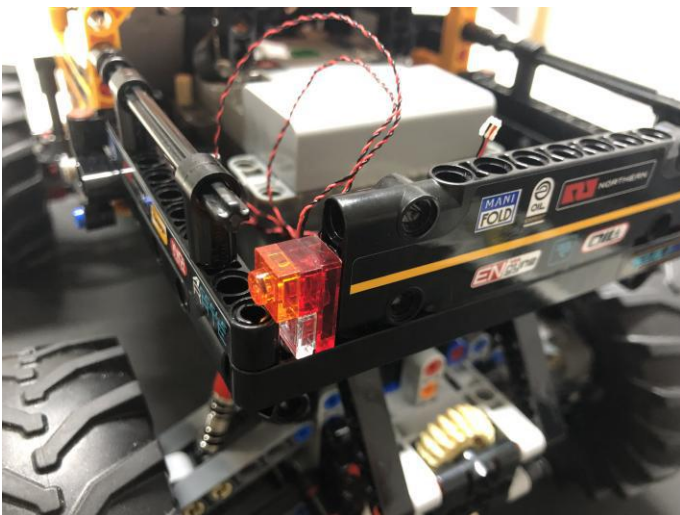
Remove the taillights



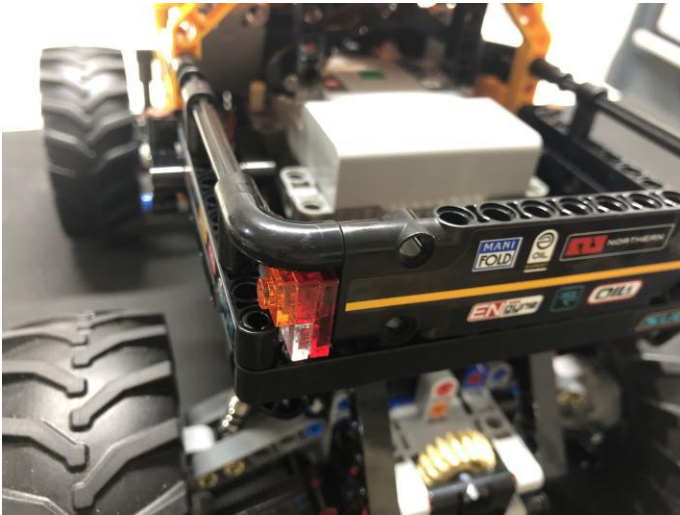
Take 2 warm white 15cm dot lights, connect the lights to the following places



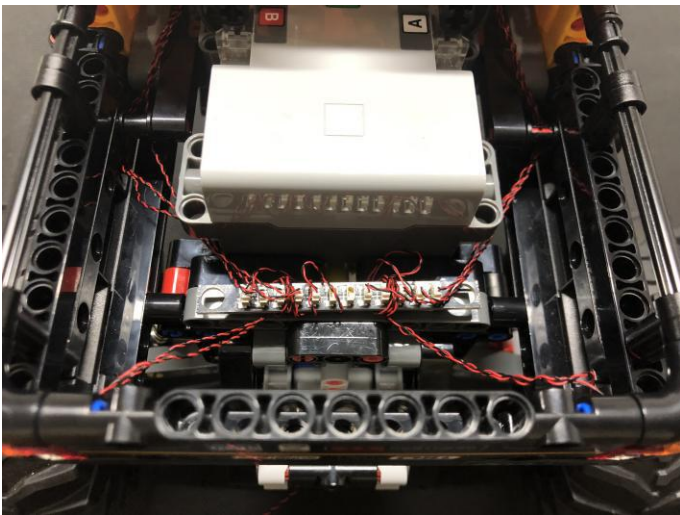
Reconnect the taillights, connect the cables to the expansion board



Reconnect the pieces we removed before



Take 2 warm white 15cm dot light, repeat the previous steps to install taillights at the other side



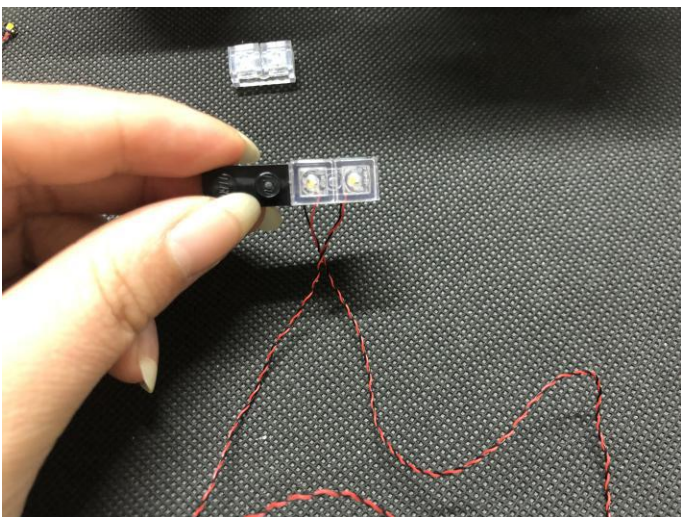
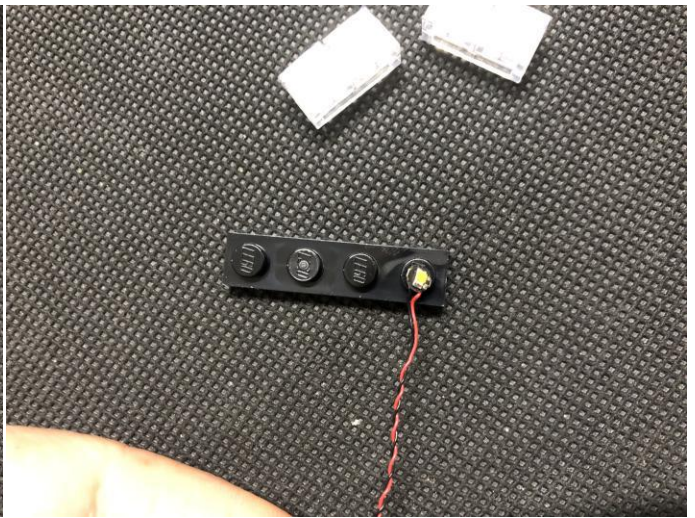
Now, we will install lights at the top of the car. Remove the following lights as per below



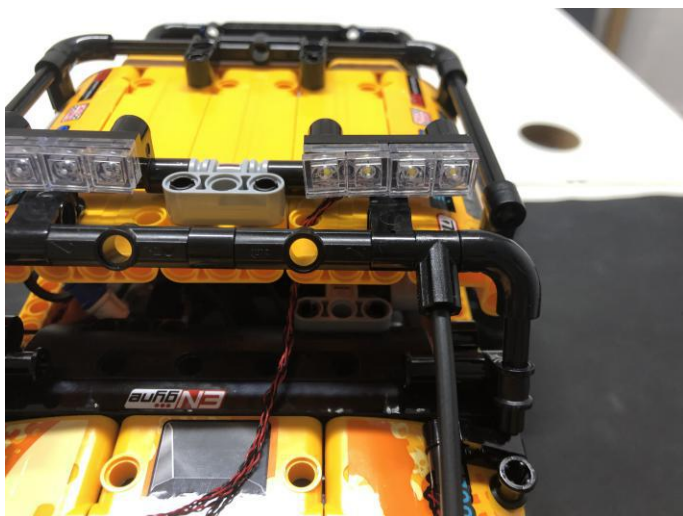
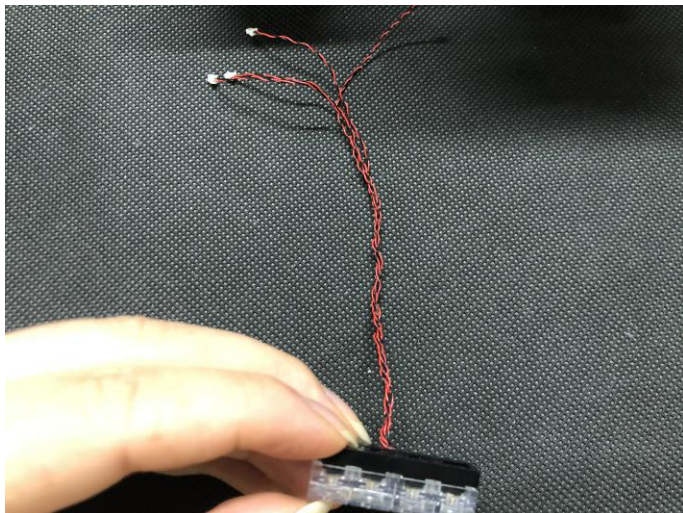
Disassemble the lights



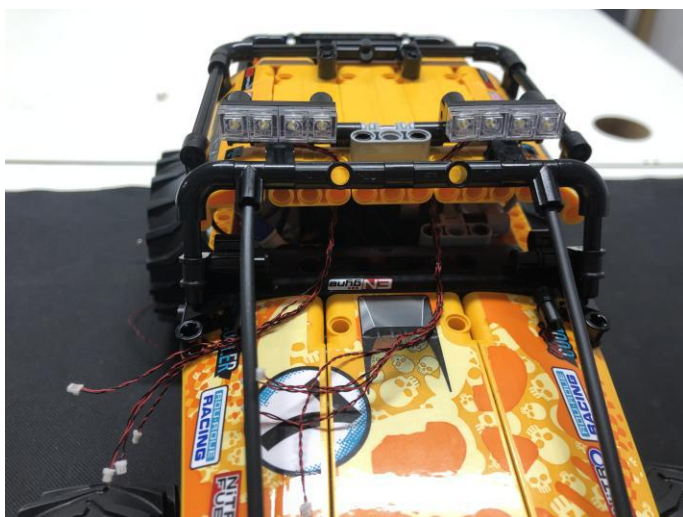
Take 4 warm white dot lights, with lighting part facing up, place the lights to the following places, and connect the trans piece over to secure the lights



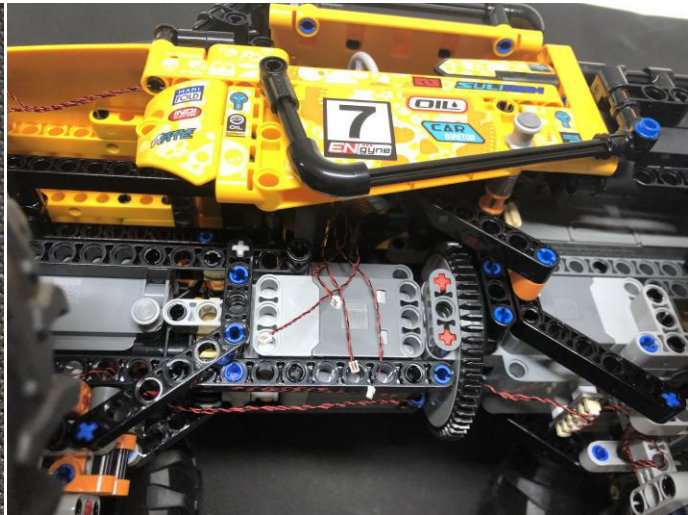
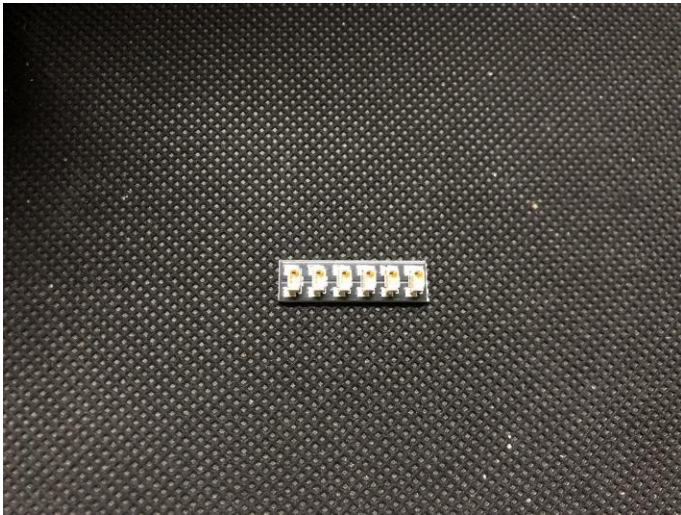
Group the cables together, thread the cables through the following hole as per below



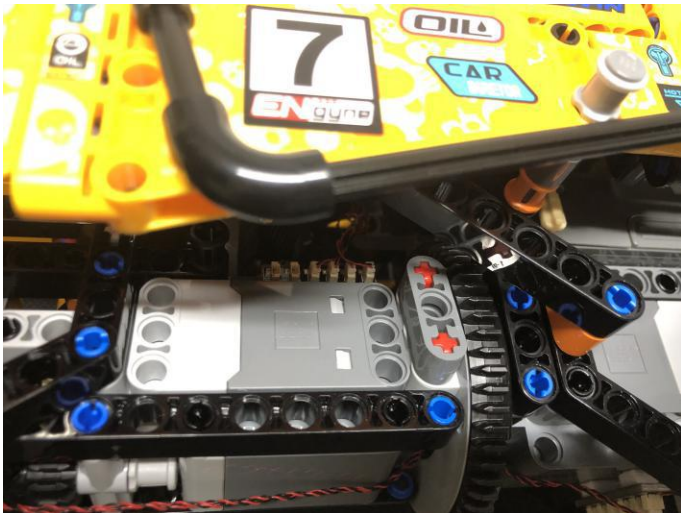
Take 4 warm white 15cm dot lights, repeat the steps above to install lights for the other side



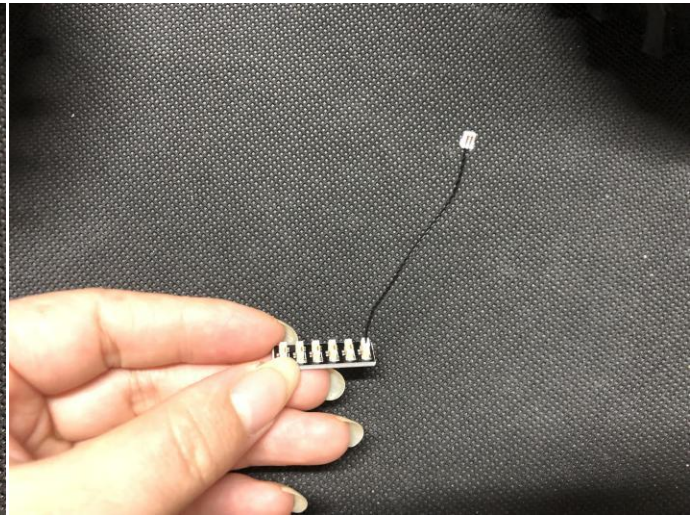
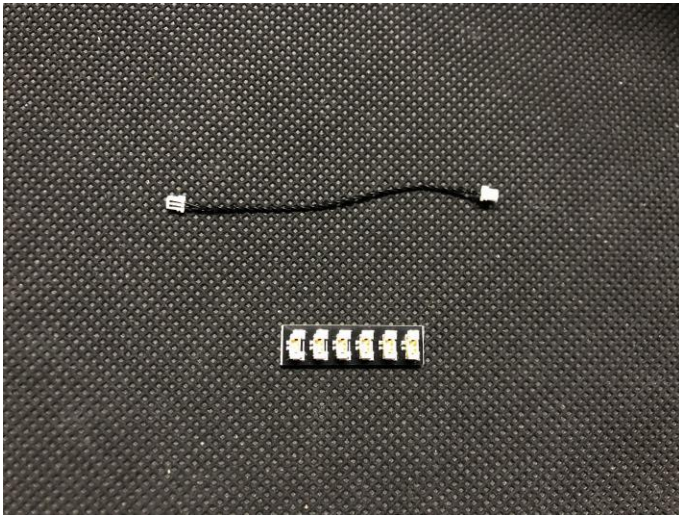
Take a 6-port expansion board, connect 4 cables from one side to it



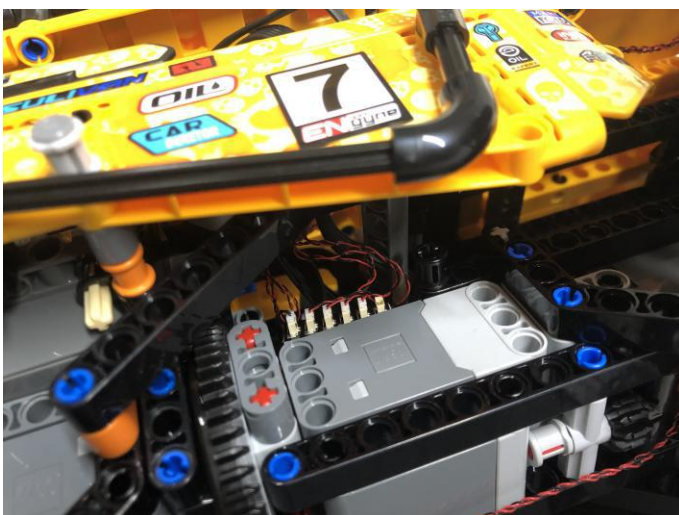
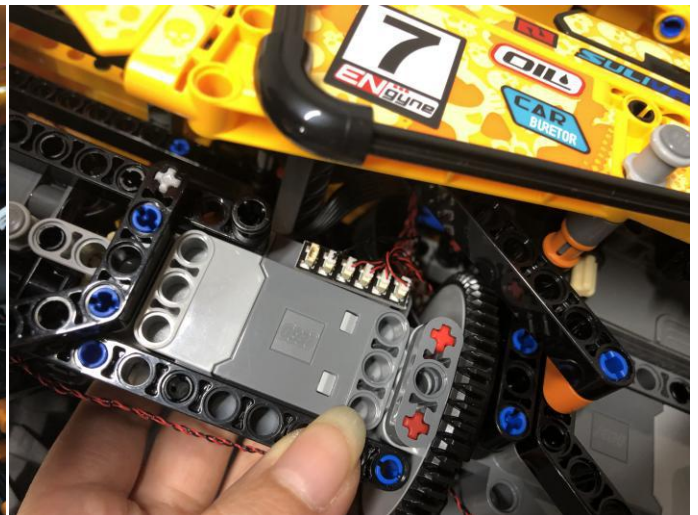
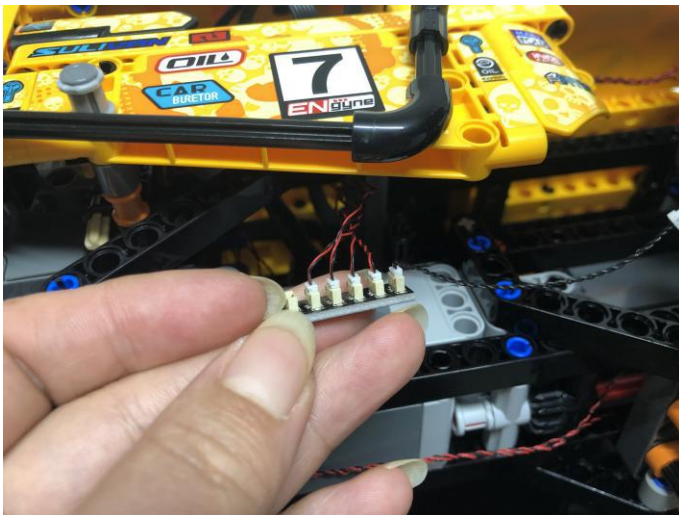
Stick the expansion board to the following place with adhesive squares



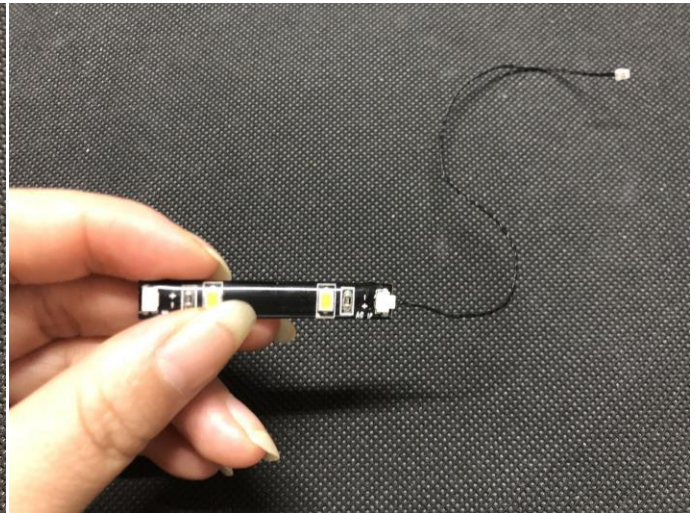
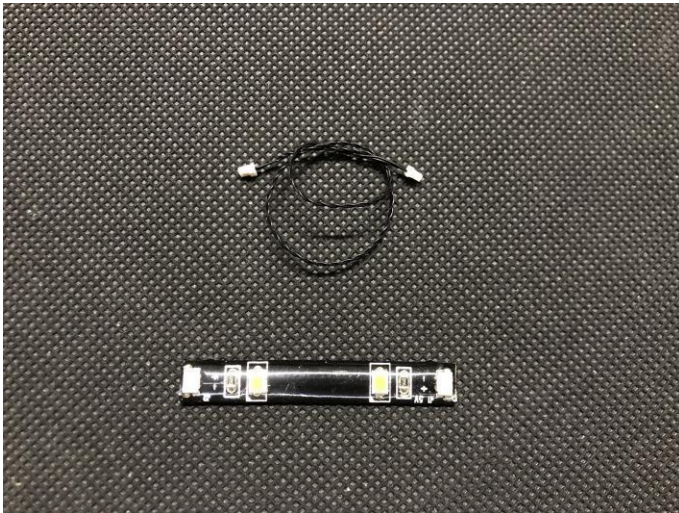
Take a 6-port expansion board, a 5cm connecting cable, connect the connecting cables to the expansion board



Connect the 4 cables from the other side to the expansion board, connect the 2 expansion boards together with the 5cm connecting cable



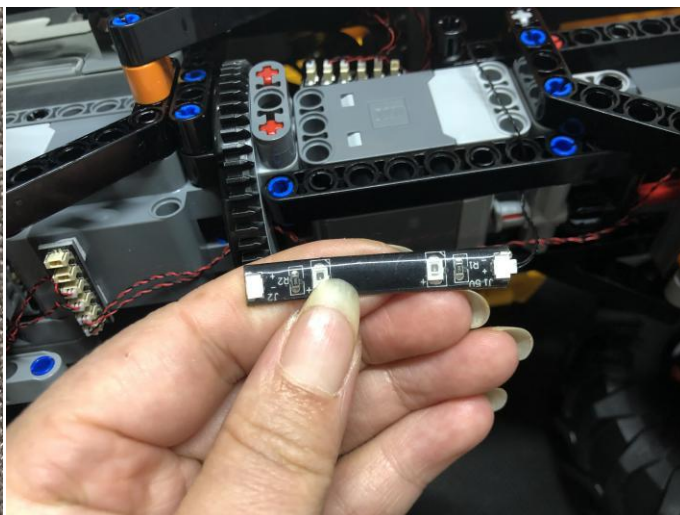
Take a warm white strip light, a 15cm connecting cable, connect the connecting cable to the strip light



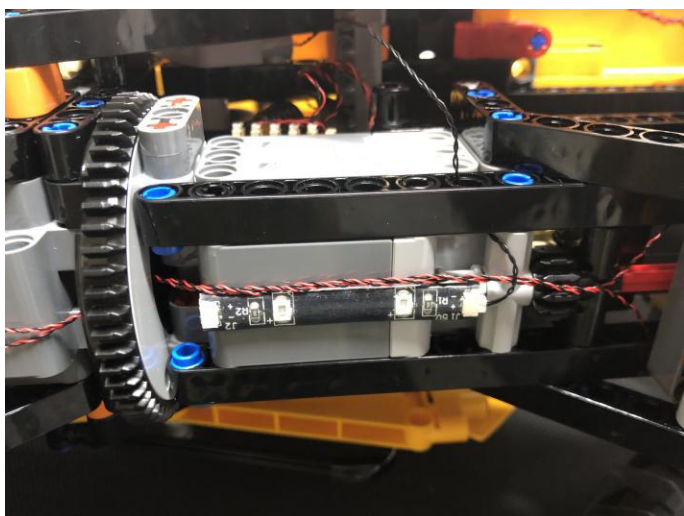
Stick the strip light to the roof of the driver' s room, pull the cable down to the bottom as per below



Take a blue strip light, connect the cable to it



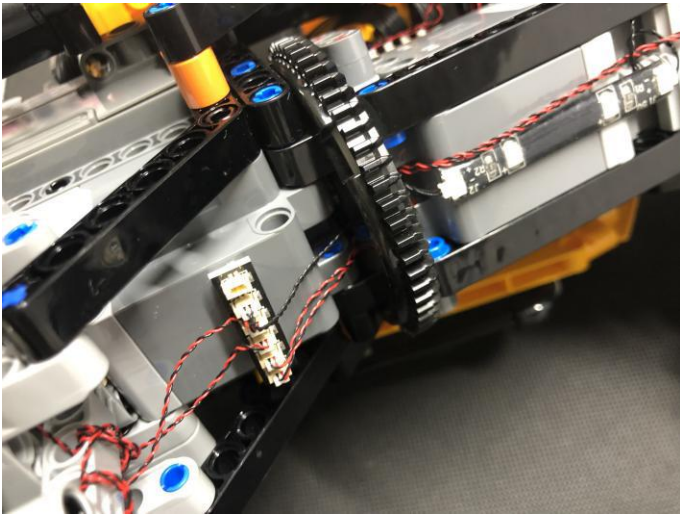
Stick the strip light to the following place



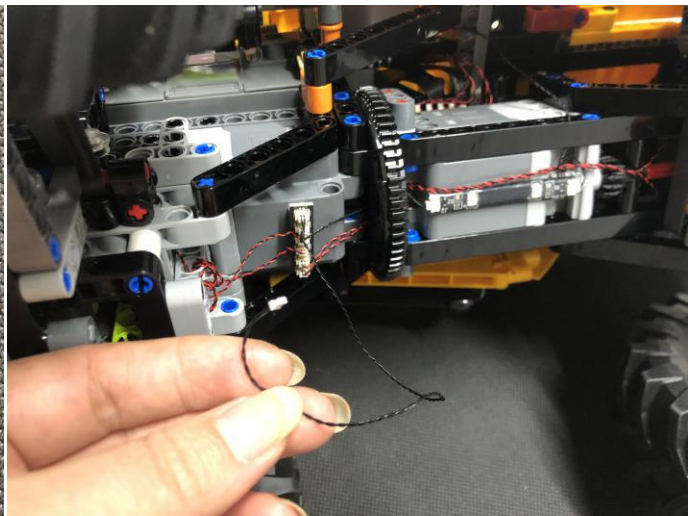
Take a 5cm connecting cable, connect it to the spare port on the blue strip light



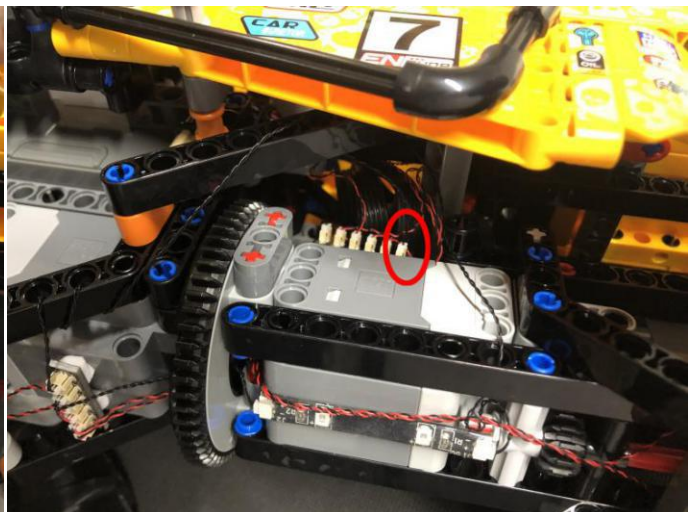
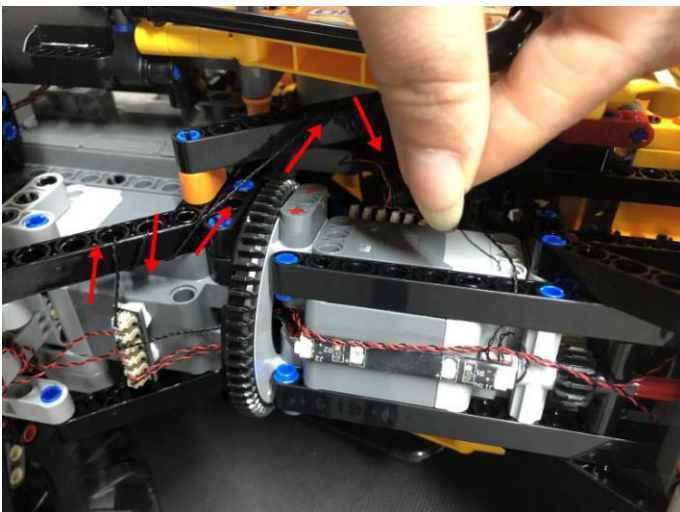
Thread the cable through the following hole and connect it to the expansion board nearby



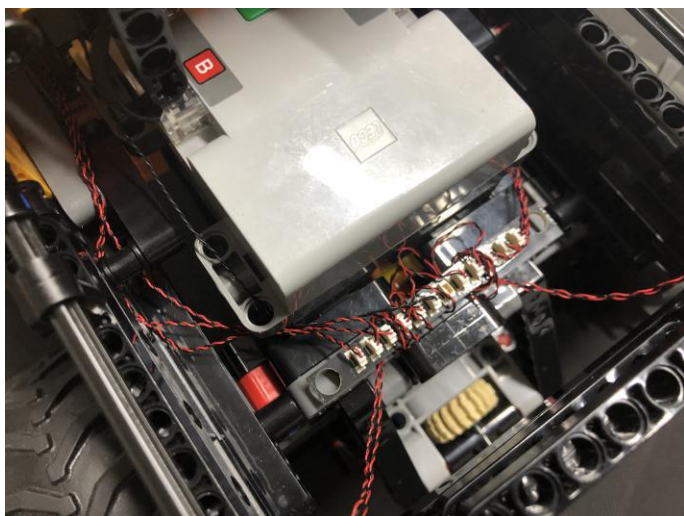
Take a 15cm connecting cable, connect it to the expansion board underneath



Place the cable as per below to connect the other end of the cable to the following expansion board

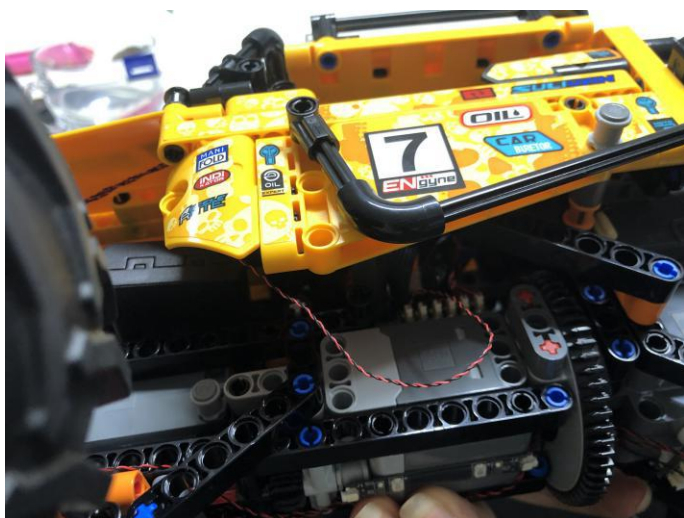


Take a 15cm connecting cable, connect it to the strip light inside the driver' s room, and pull it to the back, connect it to the 12-port expansion board



Take the AAA Battery Pack, stick it to the following place, connect its cable to the following expansion board.





Turn the power on to test if all lights are working OK



This completes installation of this LED Lighting Kit. ENJOY!