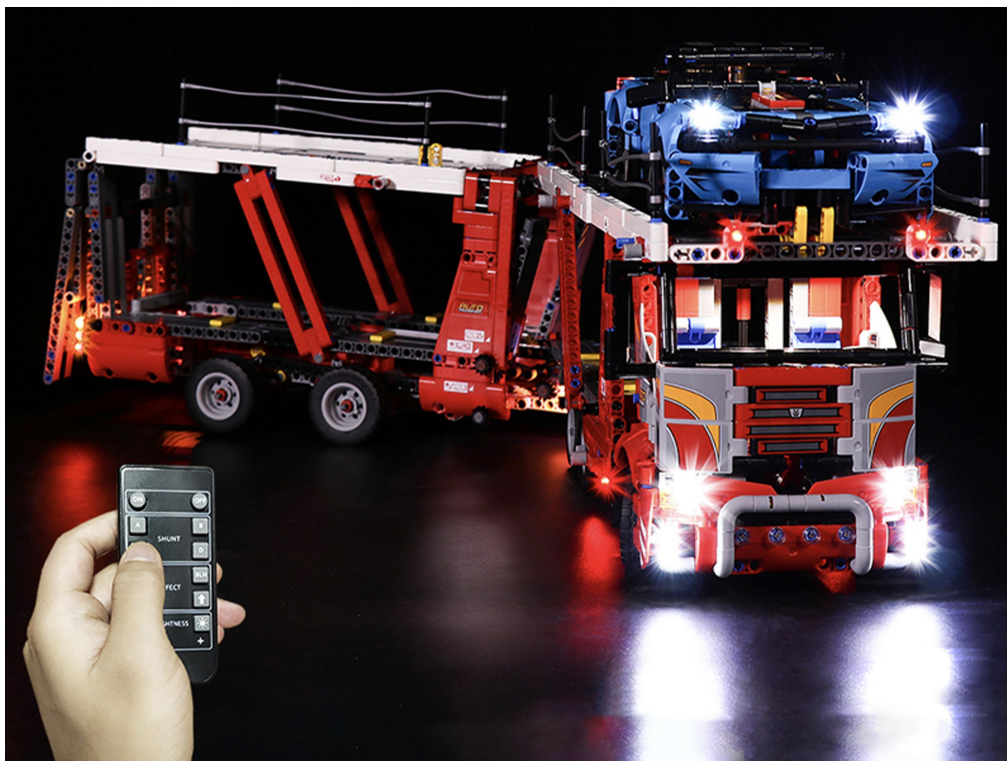


42098 Car Transporter P21002

- P21002 is the unique code of lighting set, we use this to accurately identify the product you purchased and the corresponding manuals and services you need to obtain. Please make sure your product code is the same as the label on the back of the box shown “42098 P21002”.
- Installation requires a lot of patience and great observation that your LEGO bricks will come alive when you get this finished. The bricks with lighting as below, so make sure you're ready and let's get started.



Strategies for the Installation

This instruction divides three sections to complete the installation of the lighting set.

Section A: Check the type and quantity of components.

The quantity and type of components of each products are different and it needs to be carefully checked to make sure there do have enough material.

The type of components is indicated by the label on the bag.

Section B: Test that each components is working properly.

Each components is made individually so it is necessary to test that each components is working properly to avoid the situation that the lighting does not work .

Section C: laying out components following the instruction.

Our material is very small but not fragile, just be reminded that don't to pull the wires too hard. For different people, there may be some installation steps that you can't understand. Please look at the previous and later installation step

Section A: Check the type and quantity of components.

There are 13 bags in this set. The name and quantities of specific components are as shown , please check carefully.

Label	Content	Quantity
Bit Lights-15CM-White	Bit Lights-15CM-White	12
Bit Lights-15CM-Warm White	Bit Lights-15CM-Warm White	5
Bit Lights-15CM-Red	Bit Lights-15CM-Red	8
Flashing Bit Lights-15CM-Red	Flashing Bit Lights-15CM-Red	8
LED Strip Lights-Warm White	LED Strip Lights-Warm White	1
Expansion Board	4 Socket Expansion Board	2
	6 Socket Expansion Board	1
	8 Socket Expansion Board	3
	12 Socket Expansion Board	1
Connecting Cables-15CM	Connecting Cables-15CM	2
Connecting Cables-30CM	Connecting Cables-30CM	4
Connecting Cables-50CM	Connecting Cables-50CM	1
AAA Battery Box	AAA Battery Box	1
USB Power Cable	USB Power Cable-30CM	1
Remote Control Board	Remote Control Board	1
Parts package		

Please contact us immediately if there have any missing components.

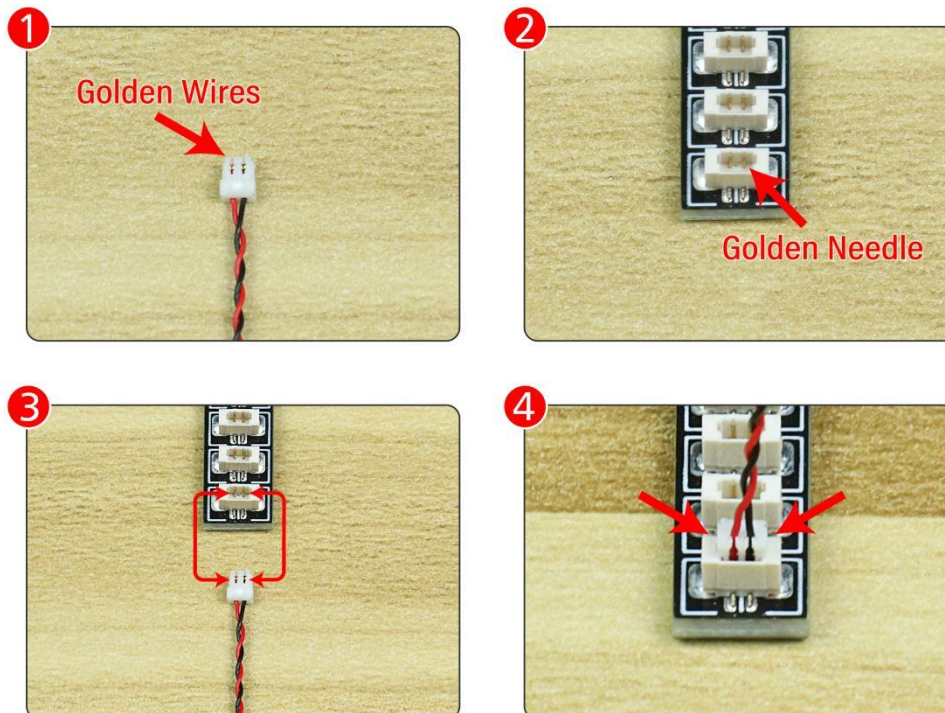
Section B: Test that each components is working properly.

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



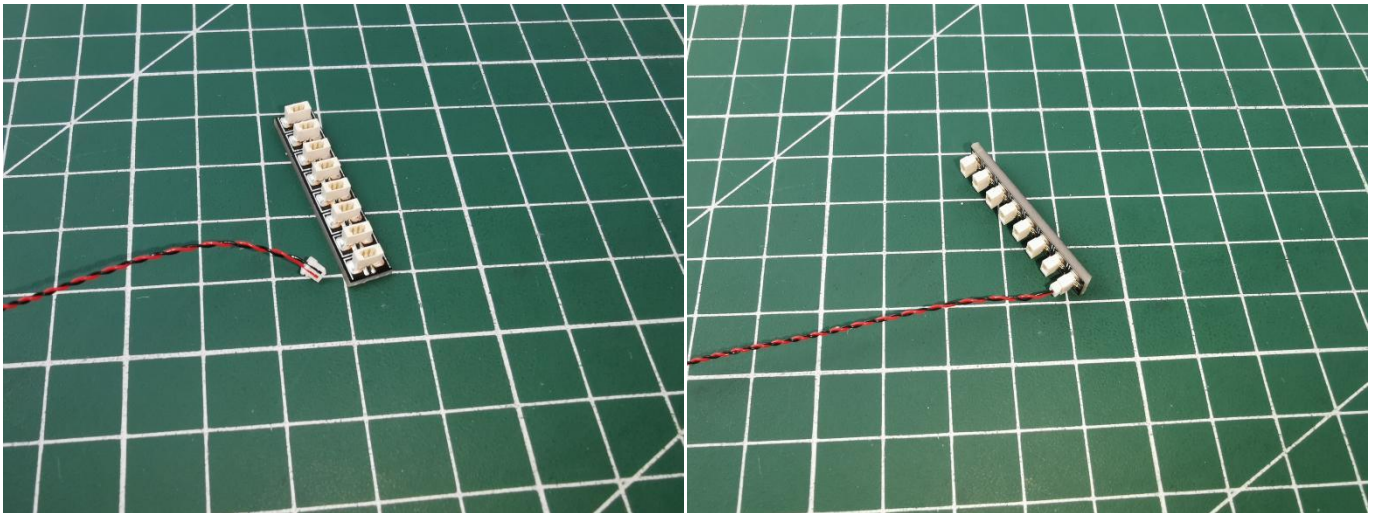
It is worth reminding that our products are all customized. They have a unique way of connecting. The white plug on wire and the socket of the expansion board need to be connected together to transmit power.

Note that on one side of the white plug you can see two very small golden wires that should be connected to the two golden needles in socket of the expansion board.shown as blow.

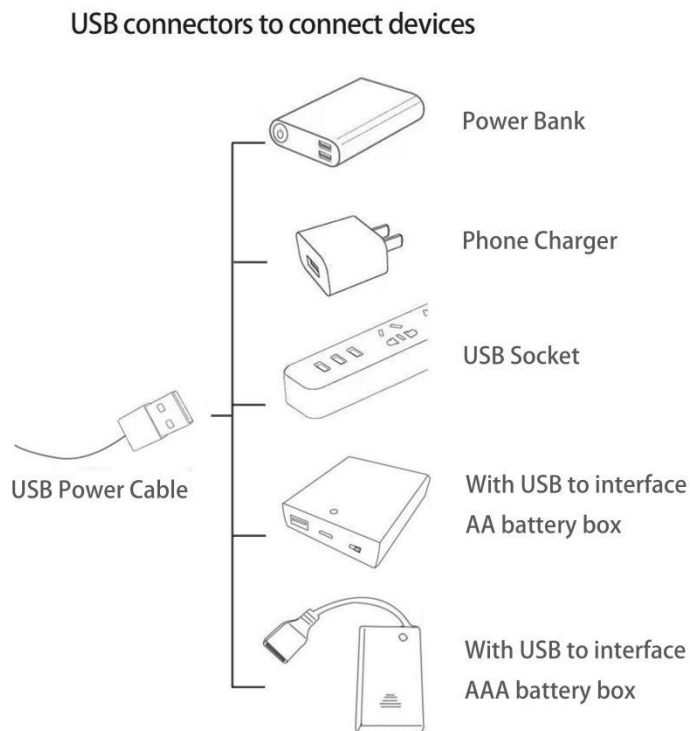


All our connections between plug and socket are all the same as shown above. So for any such structure with plug and socket, please pay attention to the golden wire of the plug and the golden needle of the socket, they must be touched together.

The connection method between the USB Power Cord and Expansion Boards is as follows:



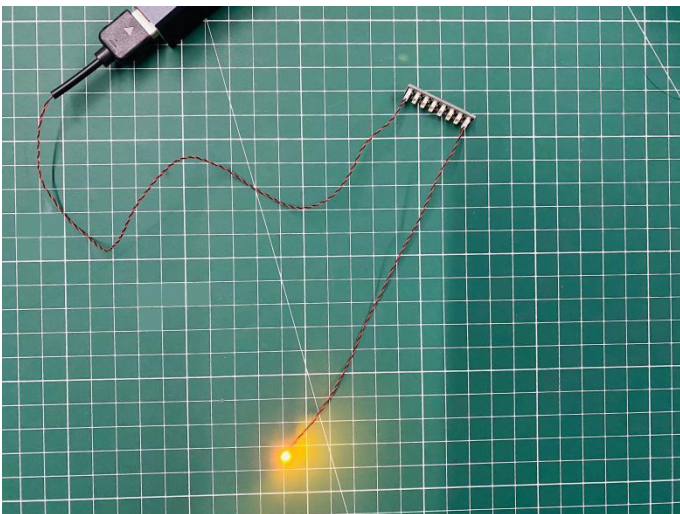
The USB Power Cord can be powered by phone chargers, power banks, etc.



This instruction will use the power bank as power supply . The test structure is shown as follow. All lamp in this set will be tested by this structure.



when we test "Bit Lights-15CM-Warm White" particles,Take out the bag labelled "Bit Lights-15CM-Warm White".Take out one of the light and connect it to the socket. Turn on the power bank, the light will turn on normally as shown below.



Test each lamp according to this method. It should be noted that after the test, the lamp must be returned to the corresponding bag to avoid confusion of types.



The components needs to be tested in this set is 12*Bit Lights-15CM-White,4*Bit Lights-15CM-Warm White,8*Bit Lights-15CM-Red,8*Flashing Bit Lights-15CM-Red,1*LED Strip Lights-Warm White.

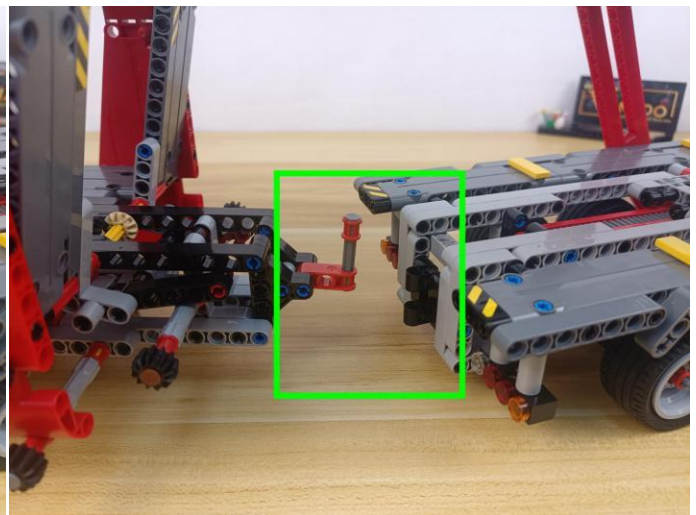
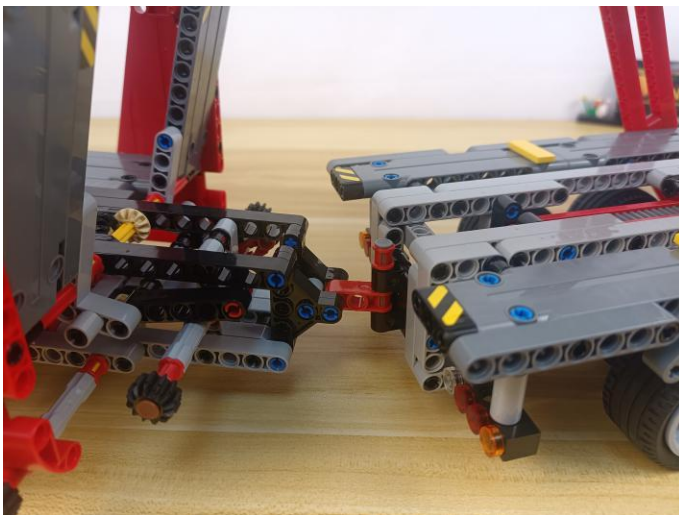
Please contact us immediately if any components don't work.

Section C: laying out components following the instruction.

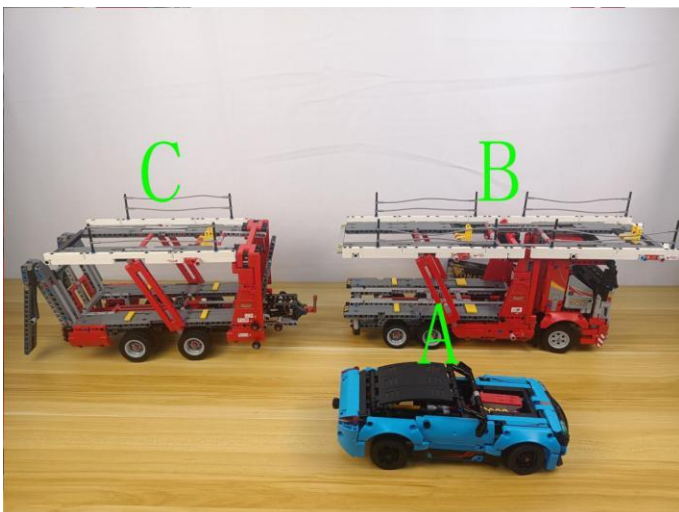
1



2. Remove the joint bolt.



3. Divide them into A, B and C part.



4. Start from installing lights for the A part.



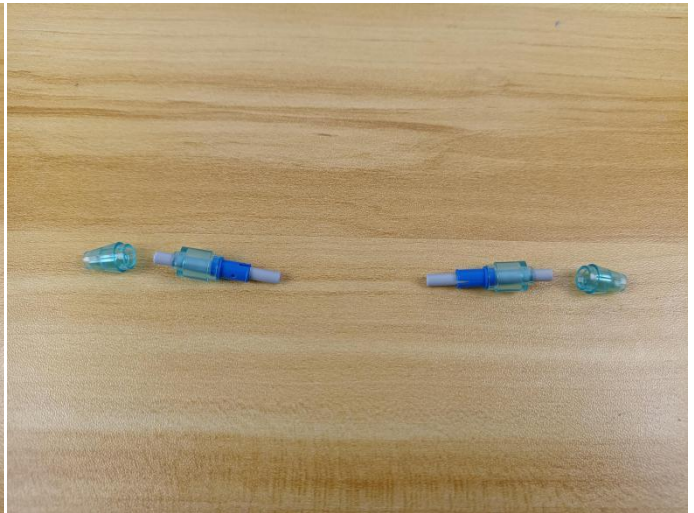
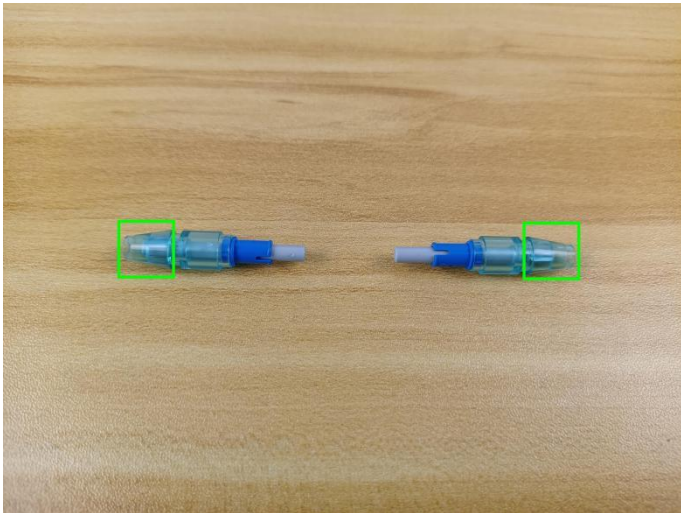
5. Turn to the head.



6. Remove the following blue pieces from both sides.



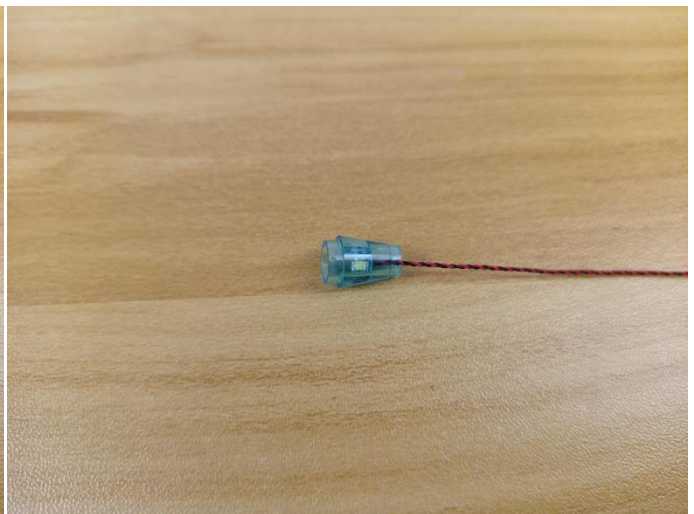
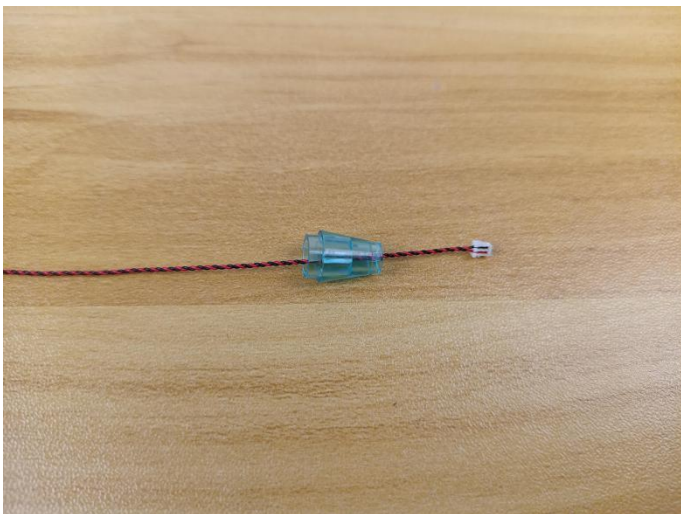
7. Continue to disconnect the following blue pieces.



8. Take 2 white 15cm dot lights.



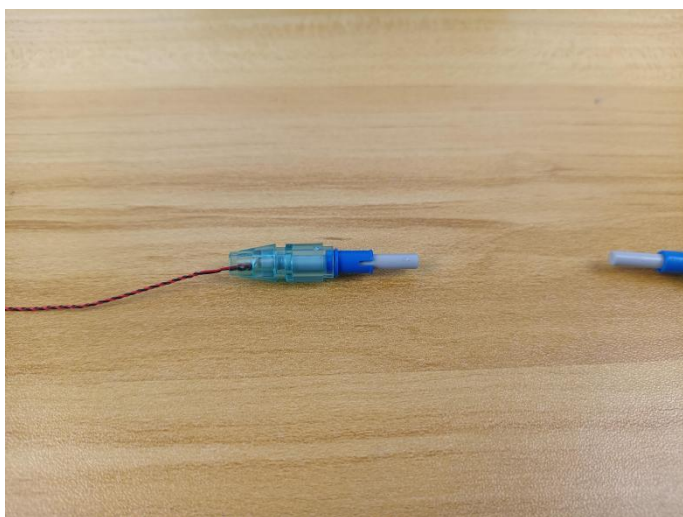
9. Thread the cable through the hole and tighten it up.



10. Reconnect the blue piece.



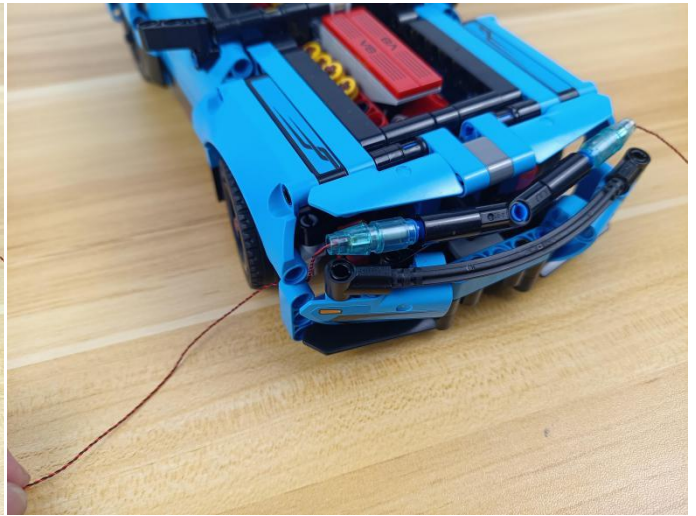
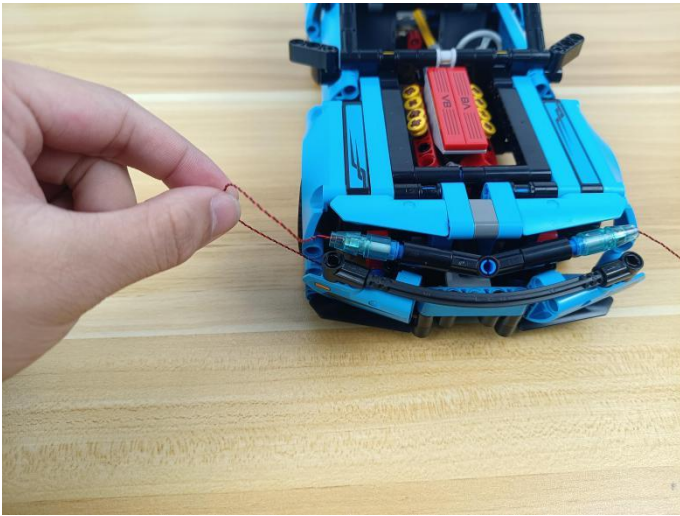
11. Install the other light in the same way.



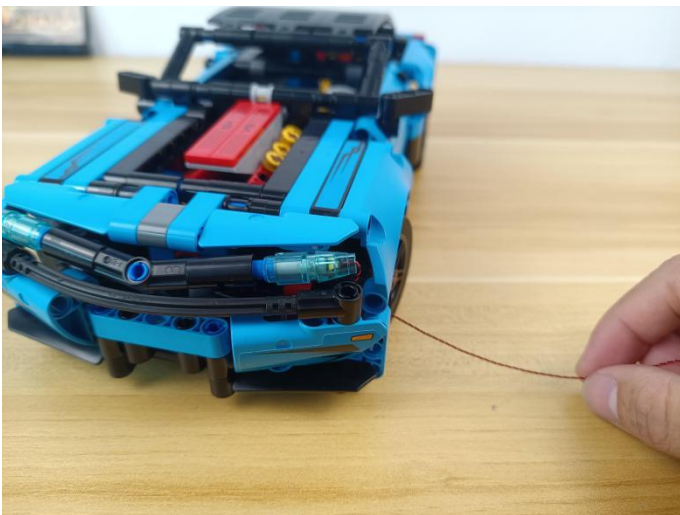
12. Reconnect the blue pieces.



13. Thread the cable through the following space, and pull it out from the bottom.



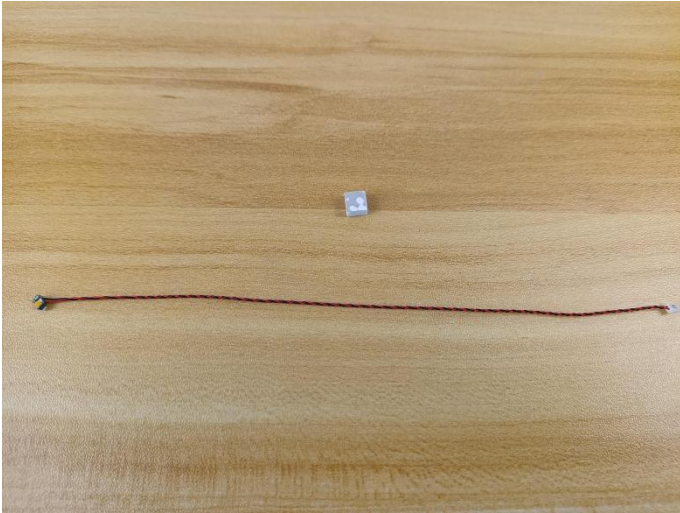
14. Place the cable at the other side in the same way.



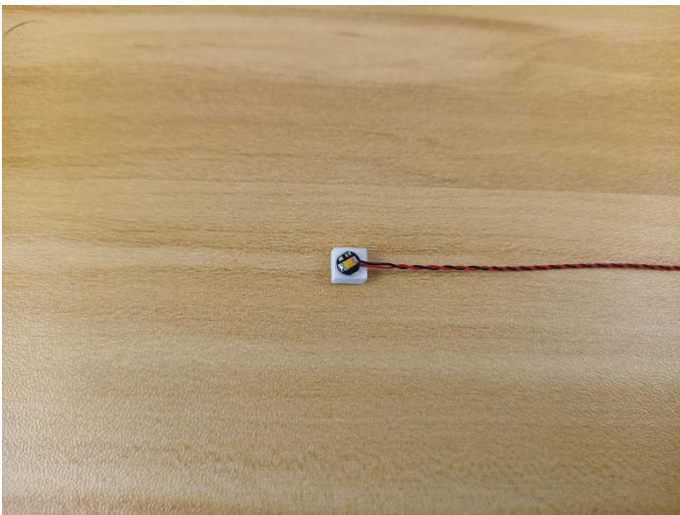
15. Turn to the side.



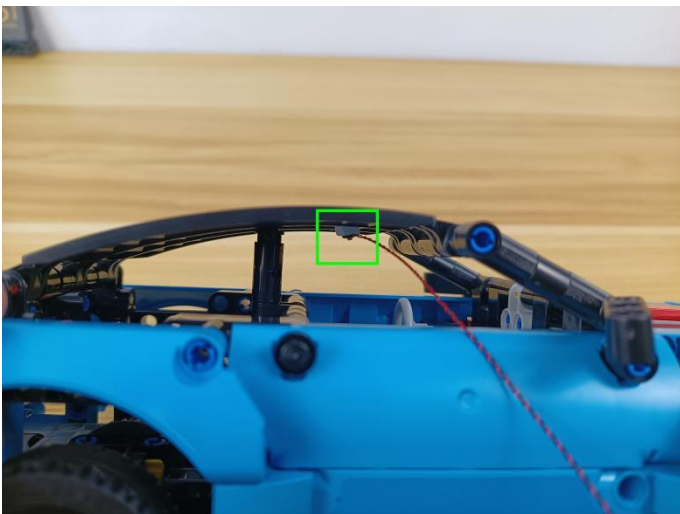
16.Take a warm white 15cm dot light, an adhesive square.



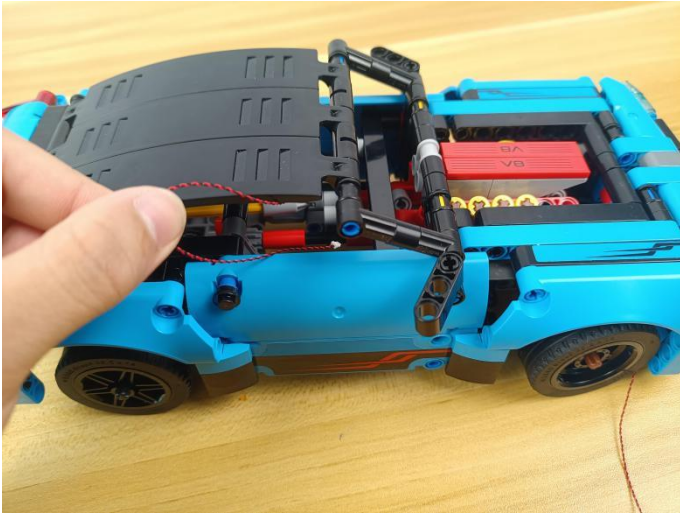
17.Stick the adhesive square to the back of the light.



18.Stick the light to the roof inside as per below.



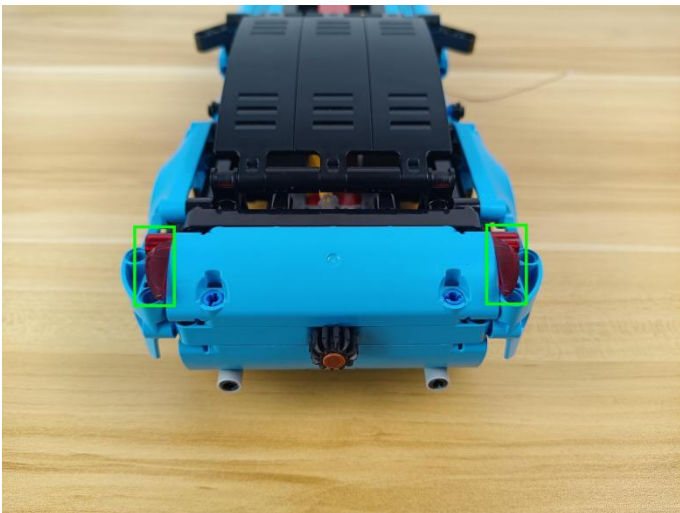
19. Thread the cable through the following space, and pull it out from the bottom.



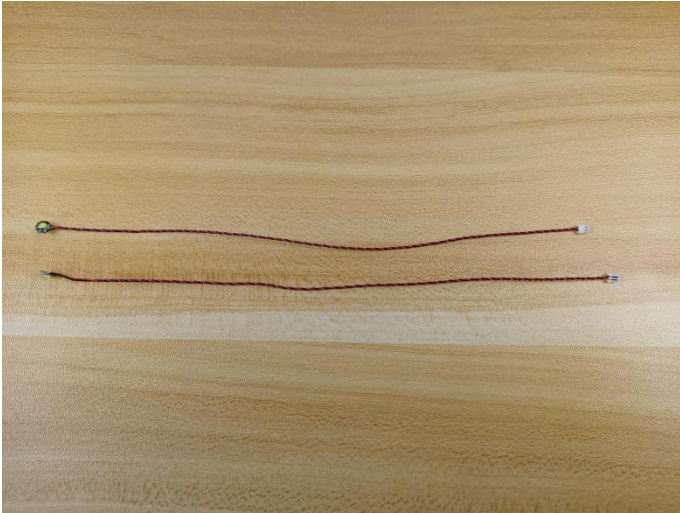
20. Turn to the tail.



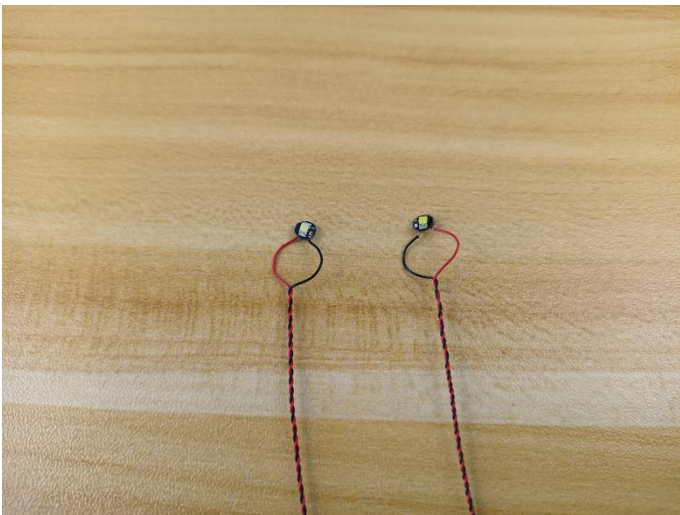
21. Remove the following red pieces from both sides.



22.Take 2 white 15cm dot lights.



23.Split the cables as per below.



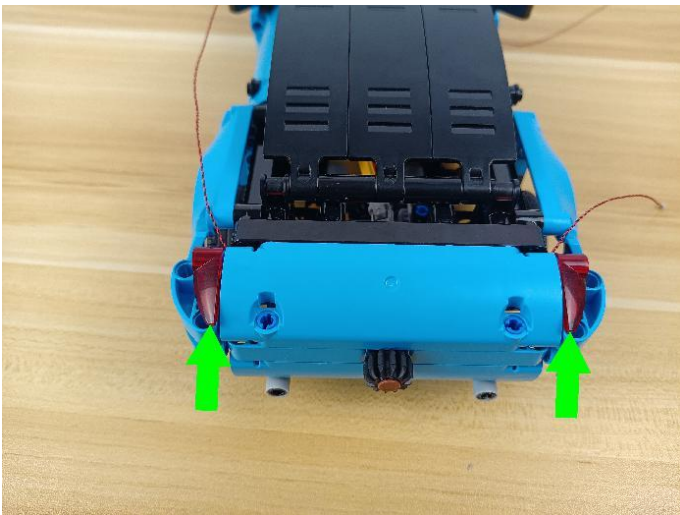
24.With lighting part facing outside, connect the lights at the blue pieces.



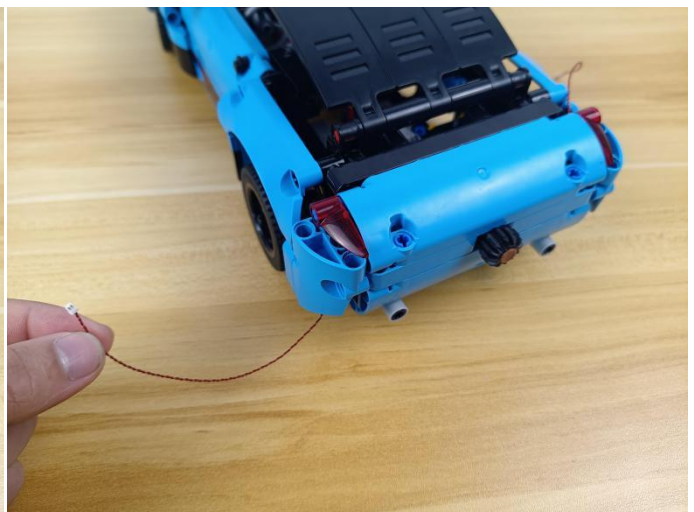
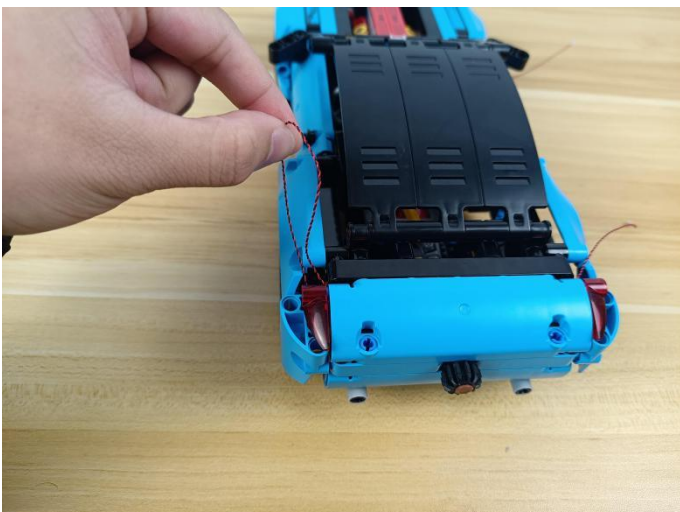
25.Tighten the cables up.



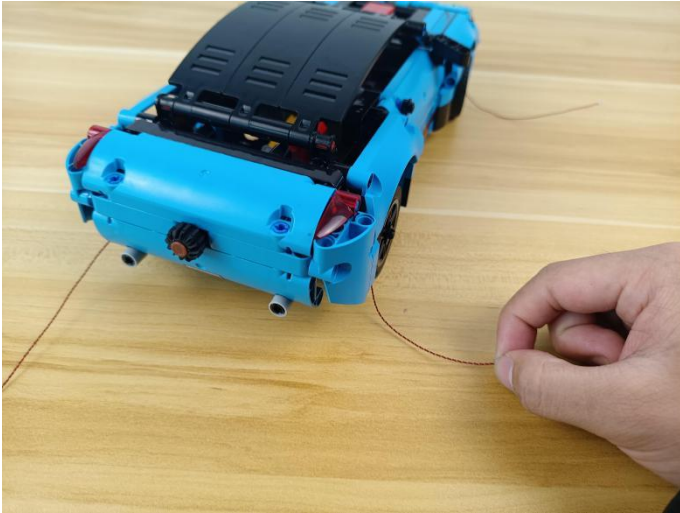
26.Reconnect the red pieces.



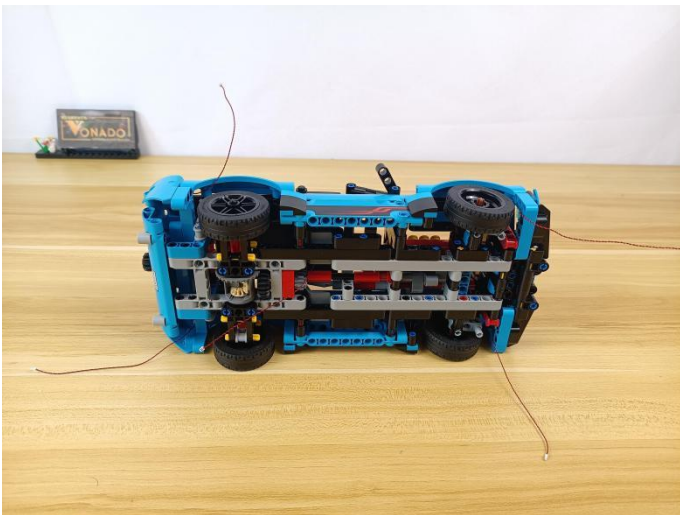
27.Thread the cable through the following space, and pull it out from the bottom.



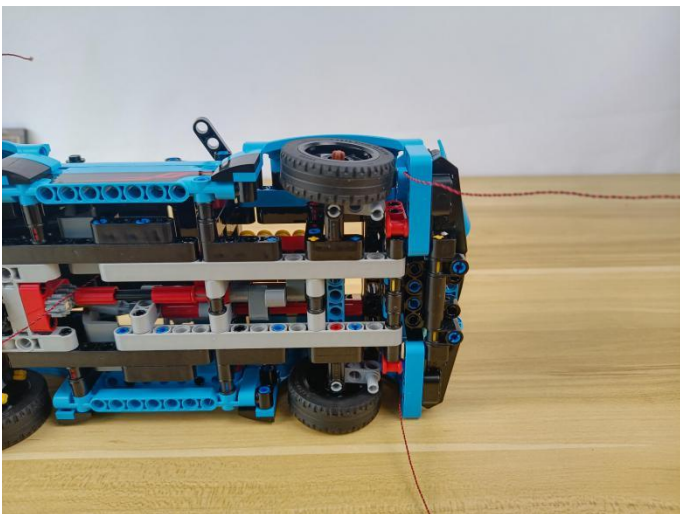
28.Place the cable at the other side in the same way.



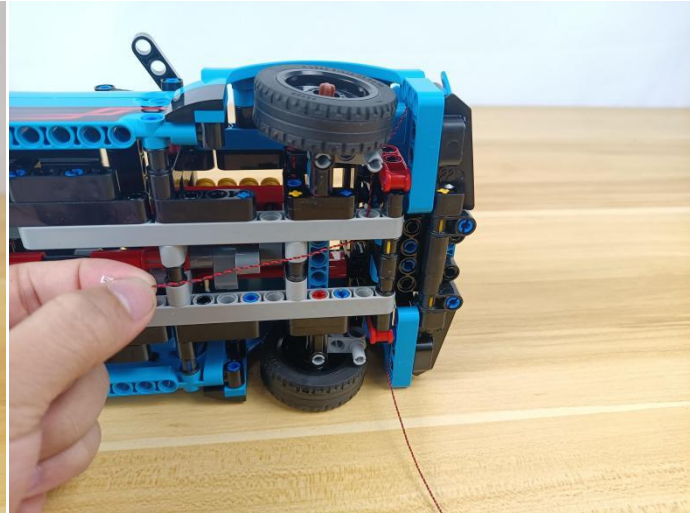
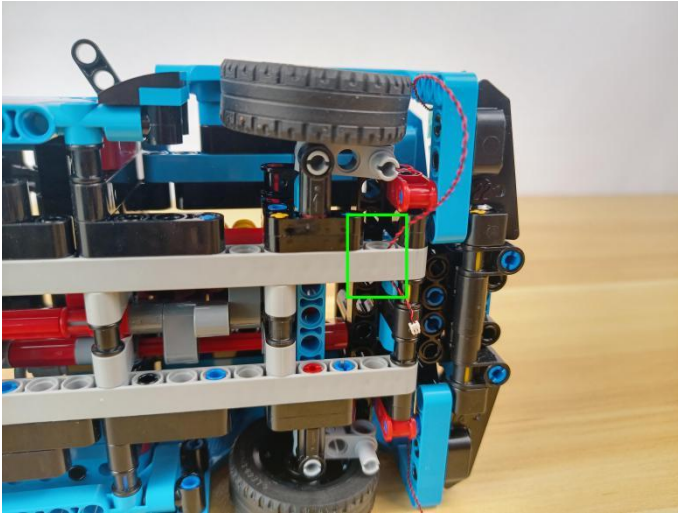
29.Turn the car over.



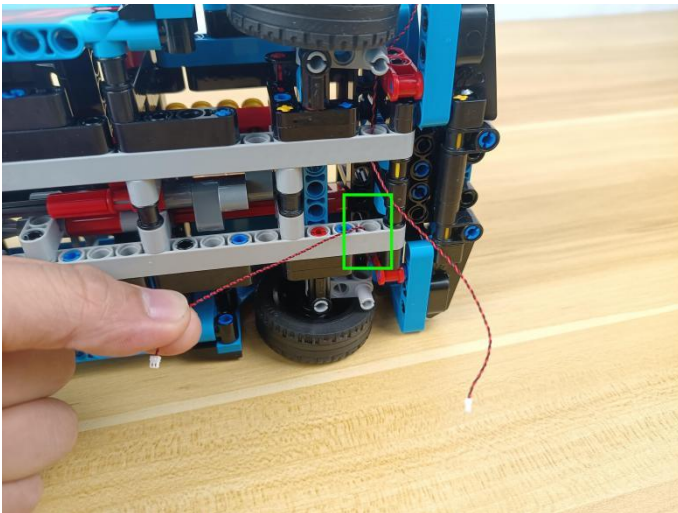
30.Turn to the head.



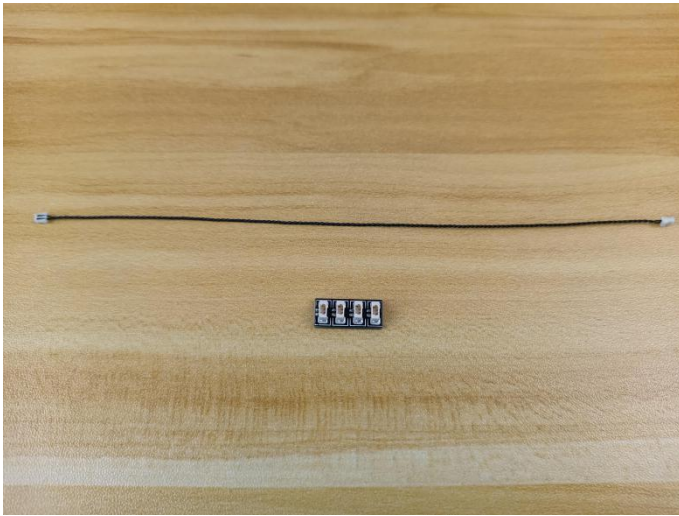
31. Thread the following cable through the following space, and pull it out.



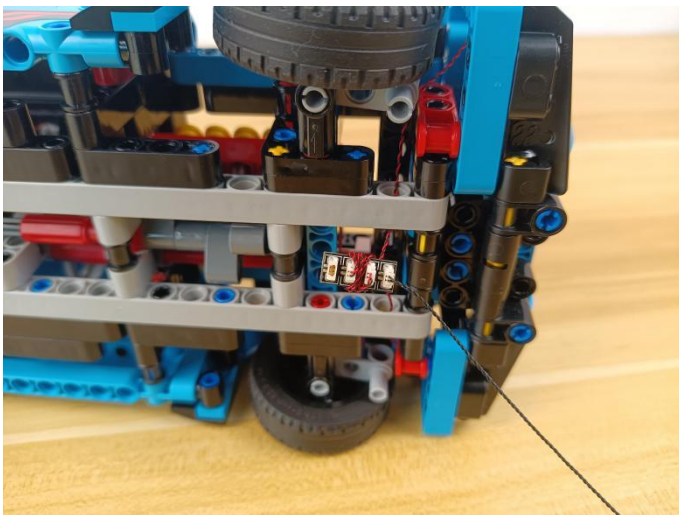
32. Continue to thread the following cable through the hole and pull it out.



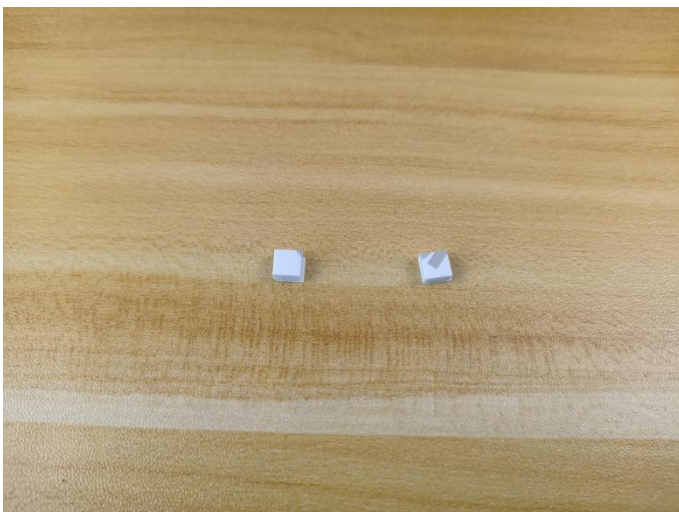
33.Take a 15cm connecting cable, a 4-port expansion board, assemble the as per below.



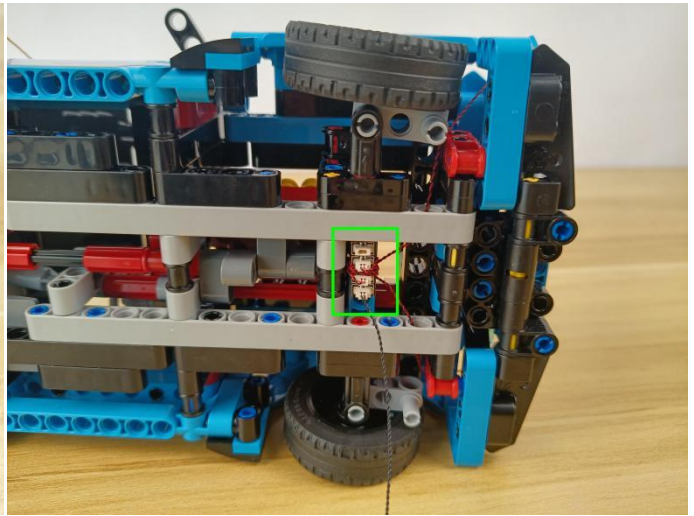
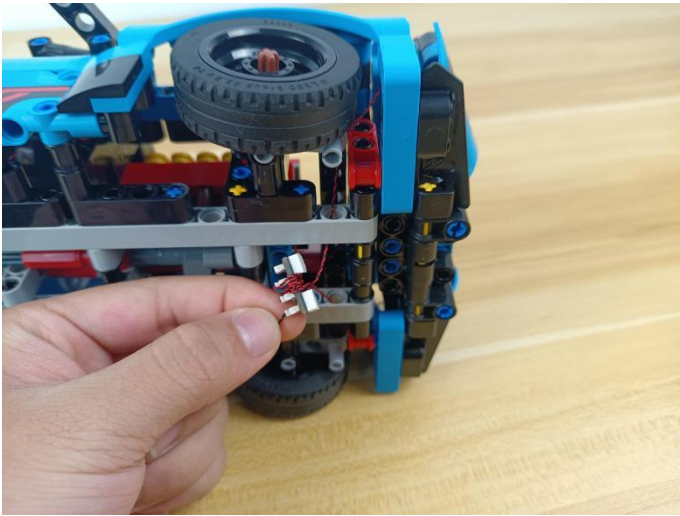
34.Connect the following 2 cables to the expansion board, you can tuck excess cables around the expansion board.



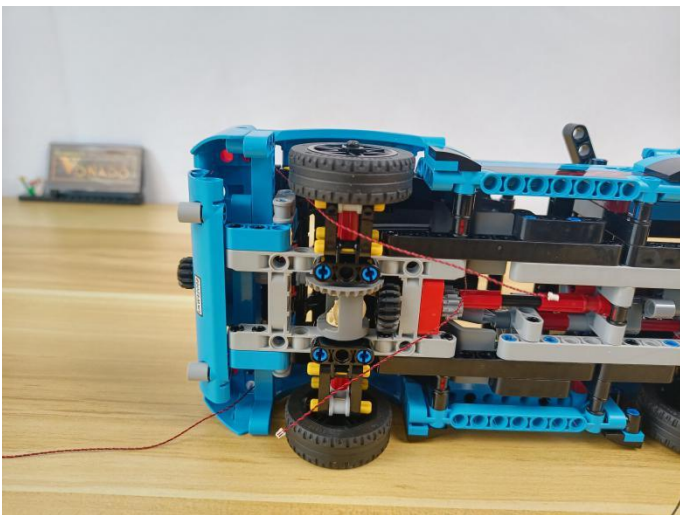
35.Take 2 adhesive squares.



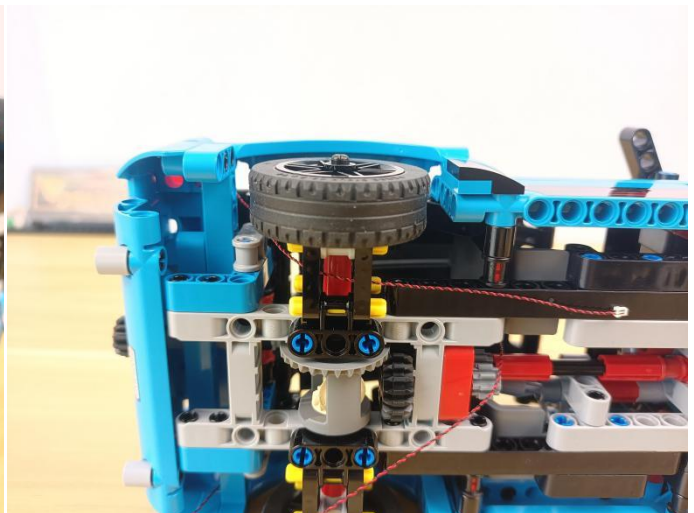
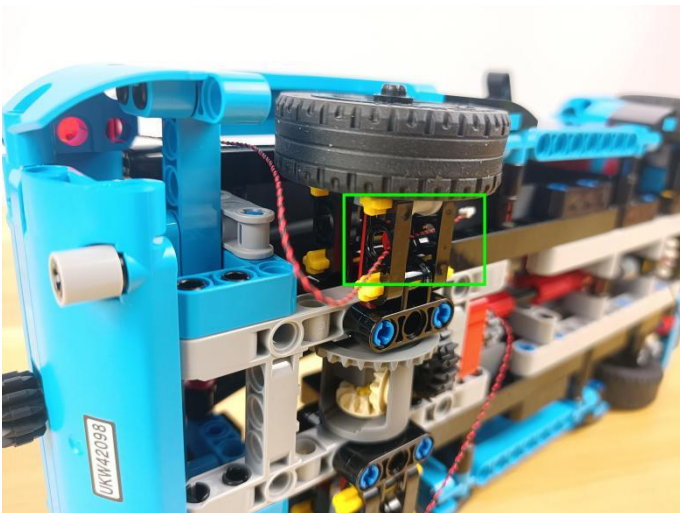
36. Stick them to the back of the expansion board, and stick the expansion board to the following place.



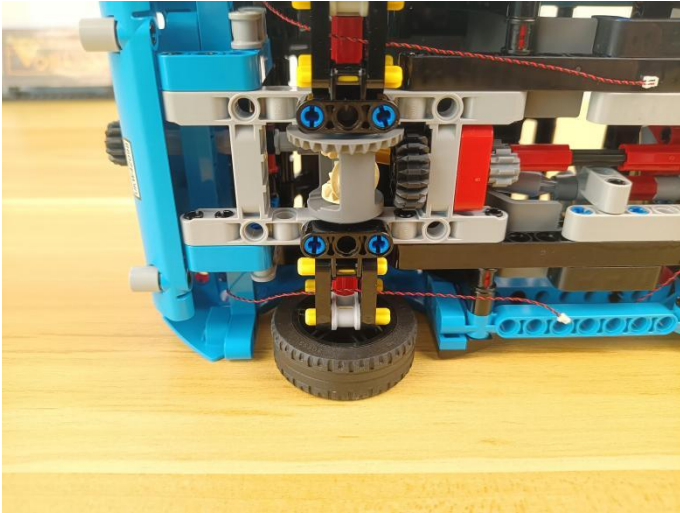
39. Turn to the tail.



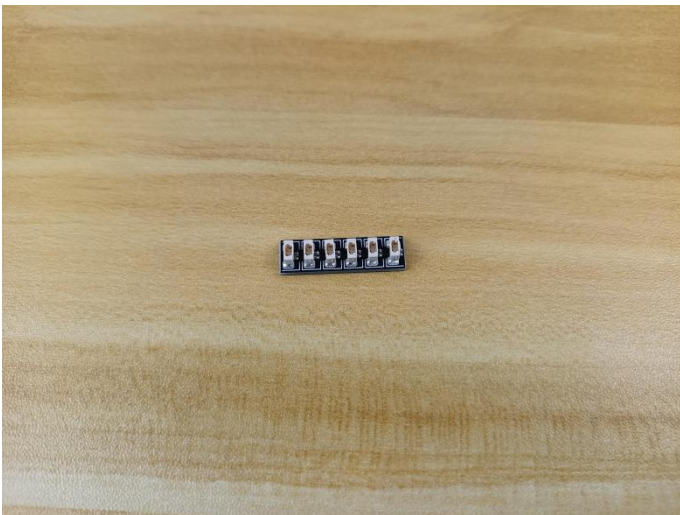
40. Thread the following cable through the black piece.



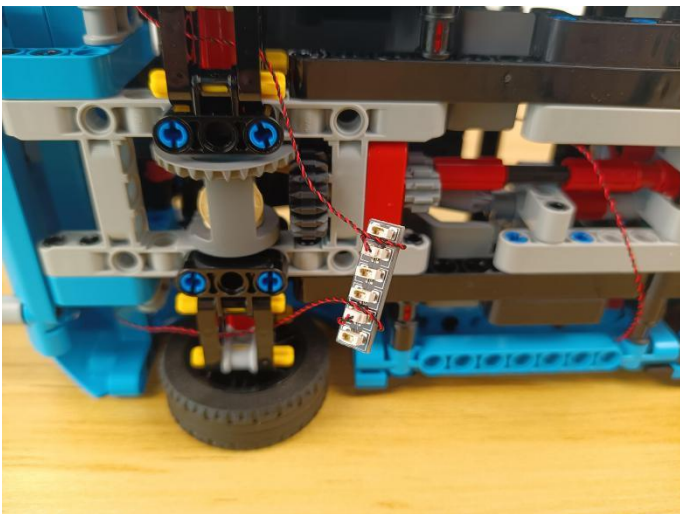
41.Place the following cable similarly.



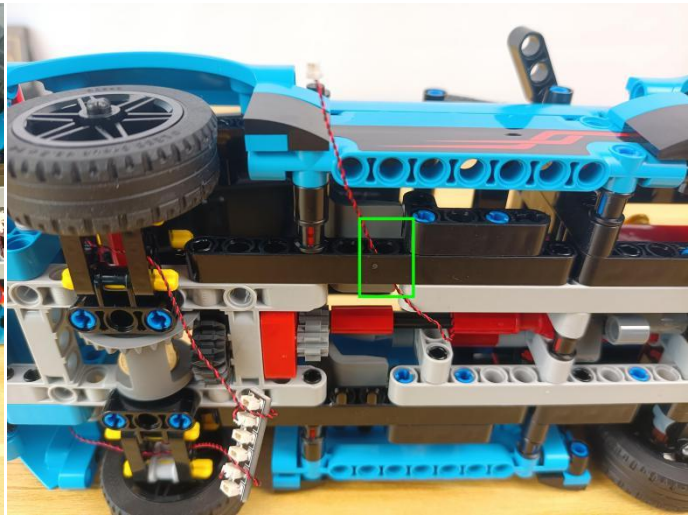
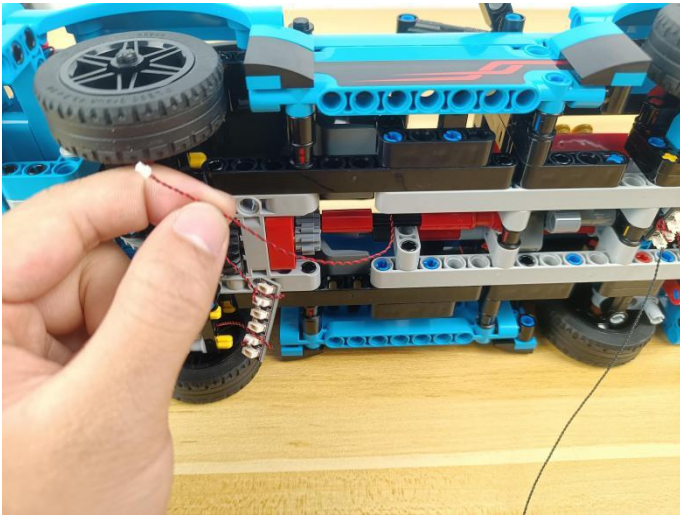
42.Take a 6-port expansion board.



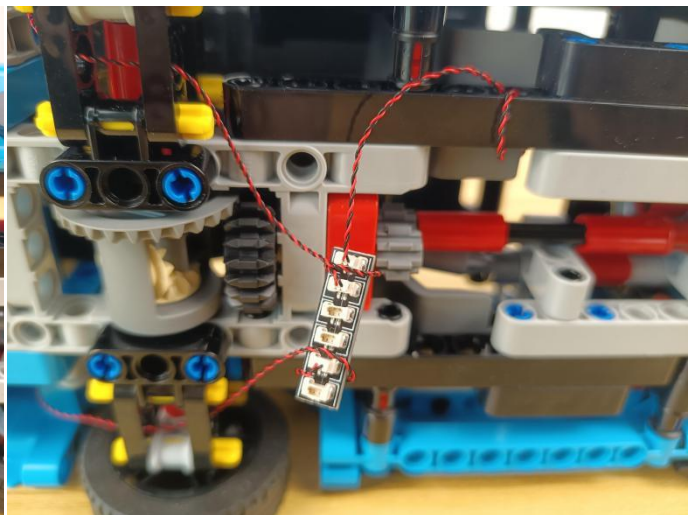
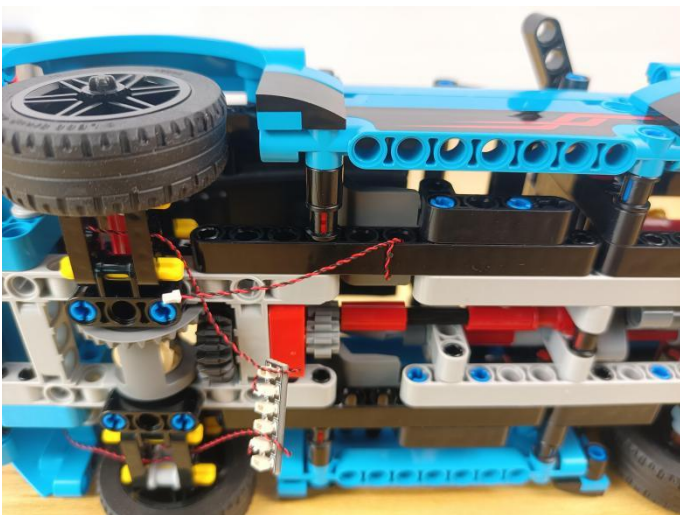
43.Connect the following 2 cables to the expansion board.



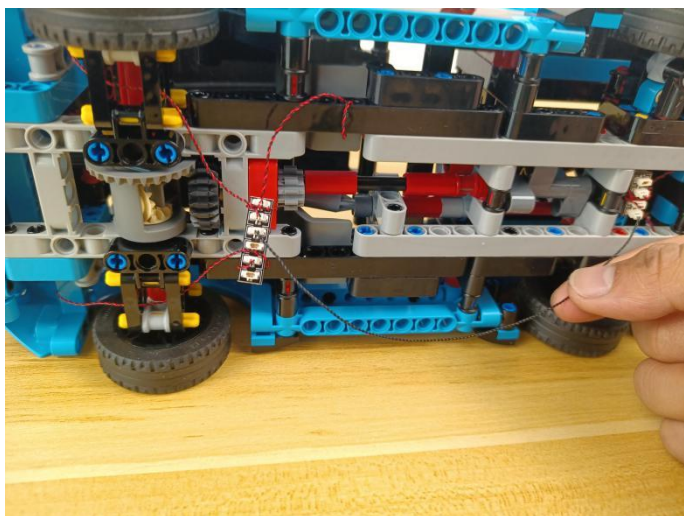
44. Thread the cable from the roof inside through the following space.



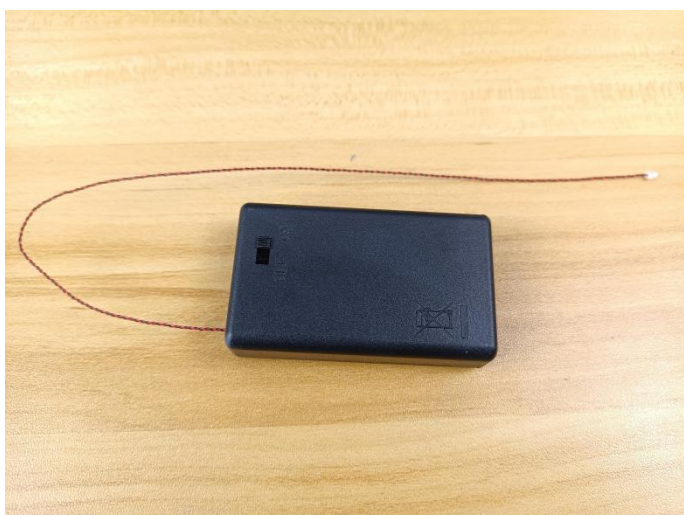
45. Wind it around the black piece before connecting it to the expansion board.



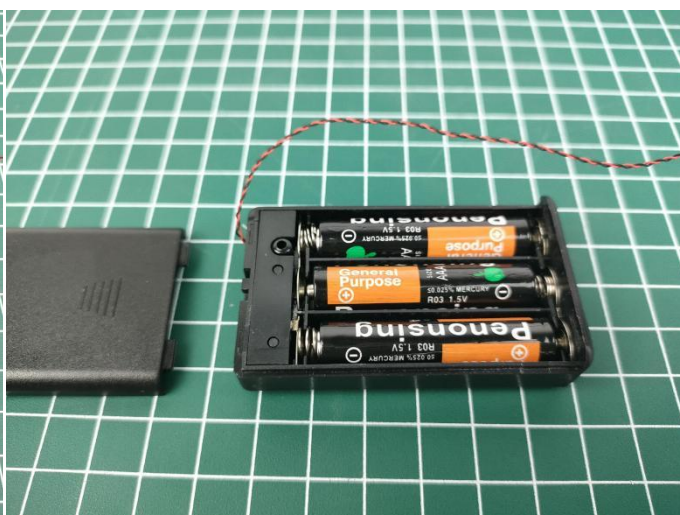
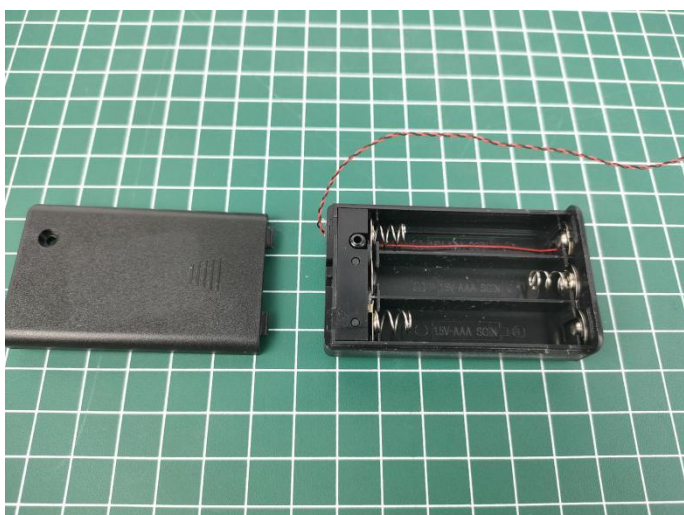
Connect the cable from the 4-port expansion board to the 6-port expansion board.



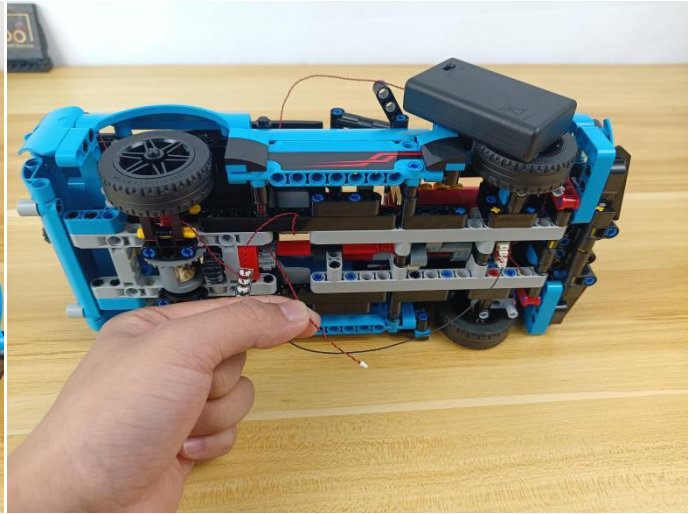
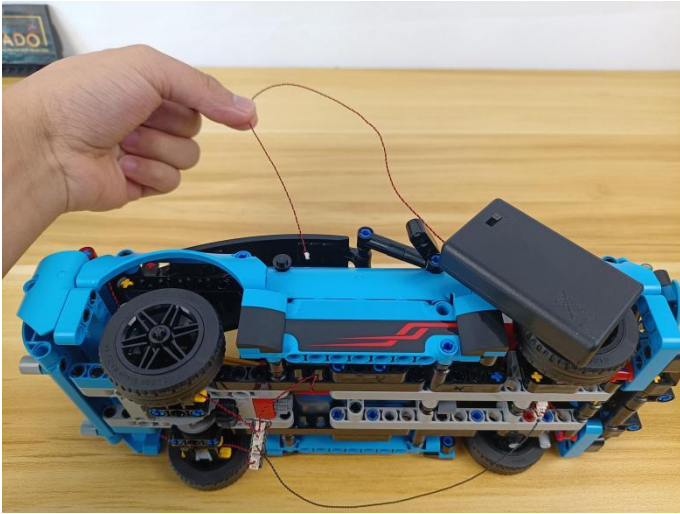
46. Take an AAA battery pack.



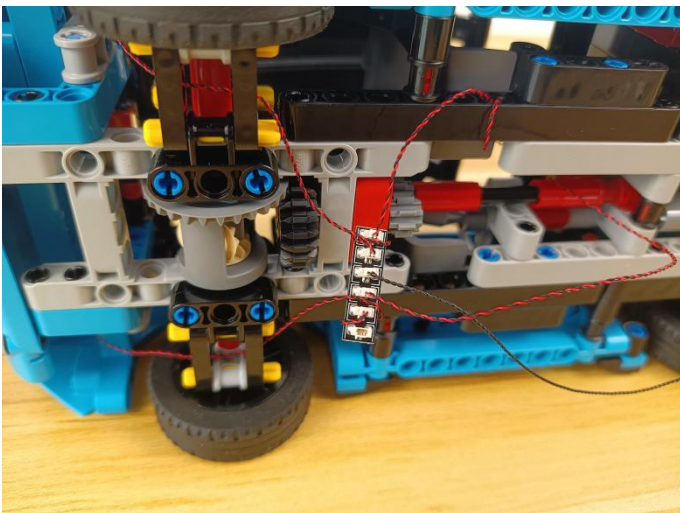
The AAA Battery Box does not contain batteries, please buy three AAA batteries in the nearest store and install it in the AAA Battery Box.



47. Thread the cable from the battery pack through the car to the bottom.



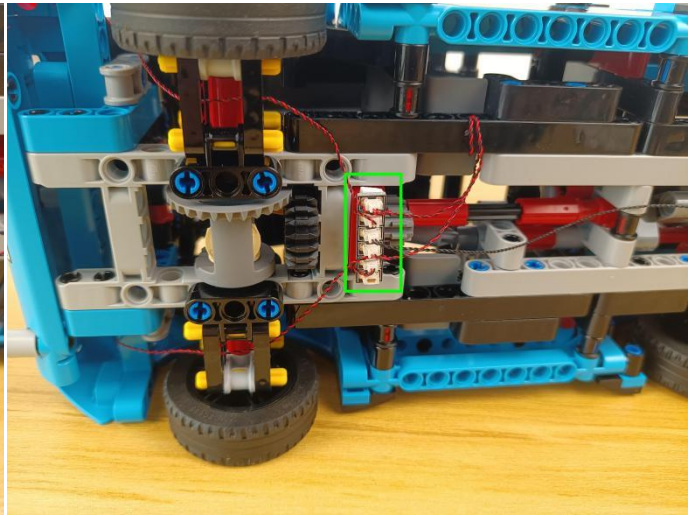
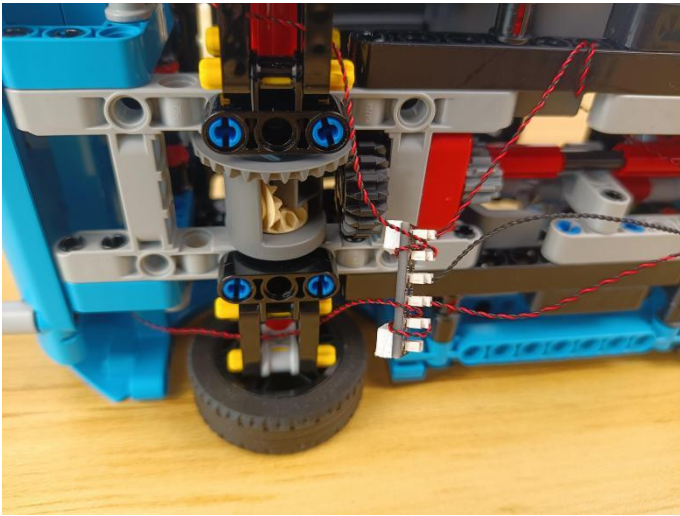
48. Connect the cable from the battery pack to the 6-port expansion board.



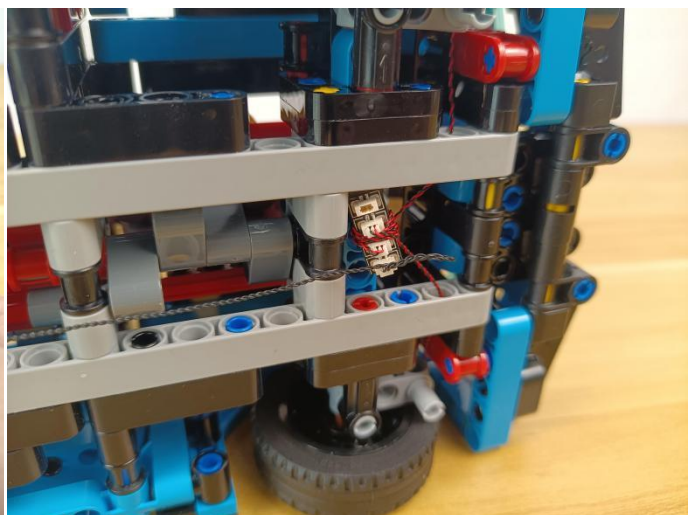
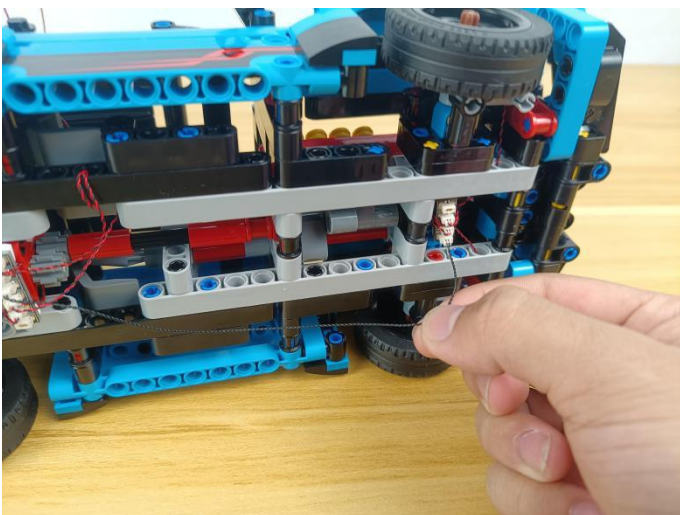
49. Take 2 adhesive squares.



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



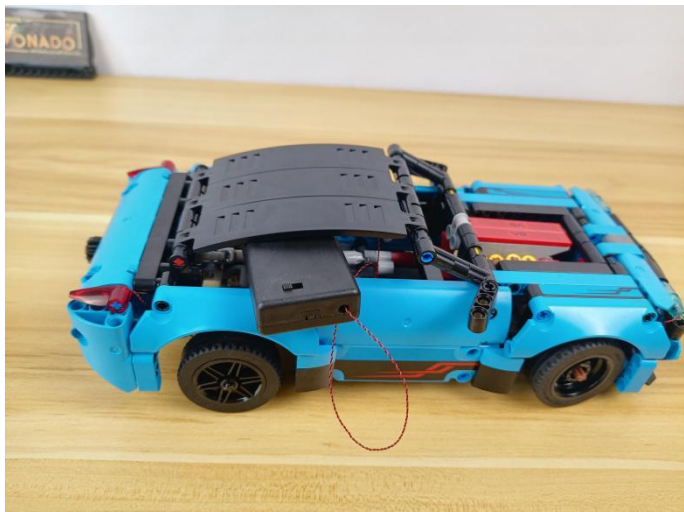
51. Tighten excess cables up as per below.



52. Turn the car to the side.



53.Tuck the battery pack inside the driver' s room.



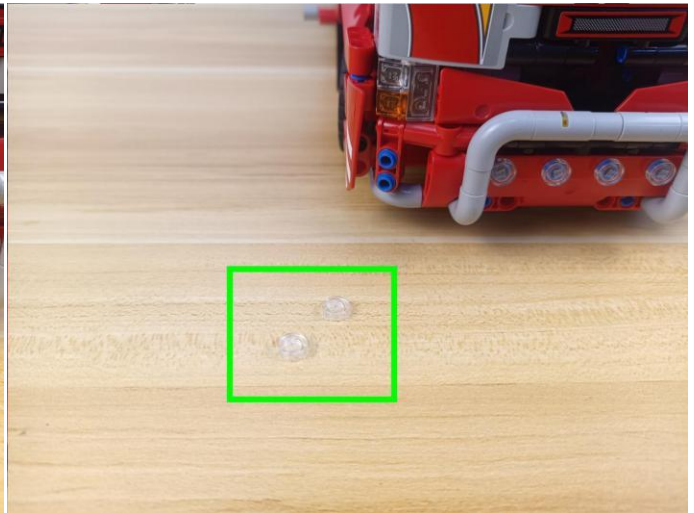
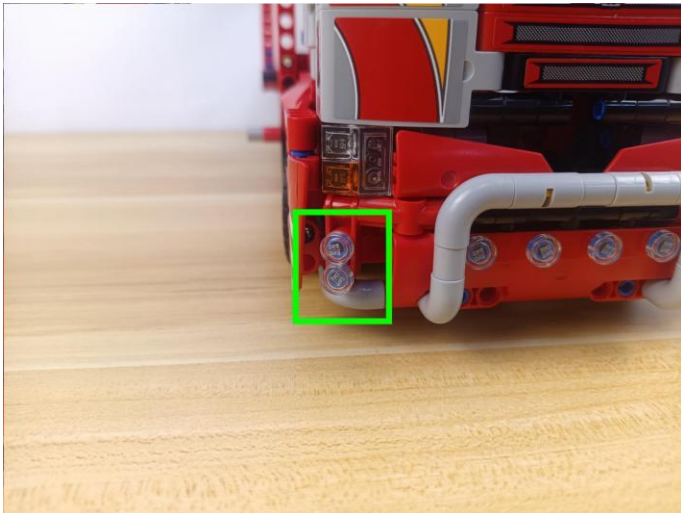
54.Continue to install lights for the B part.



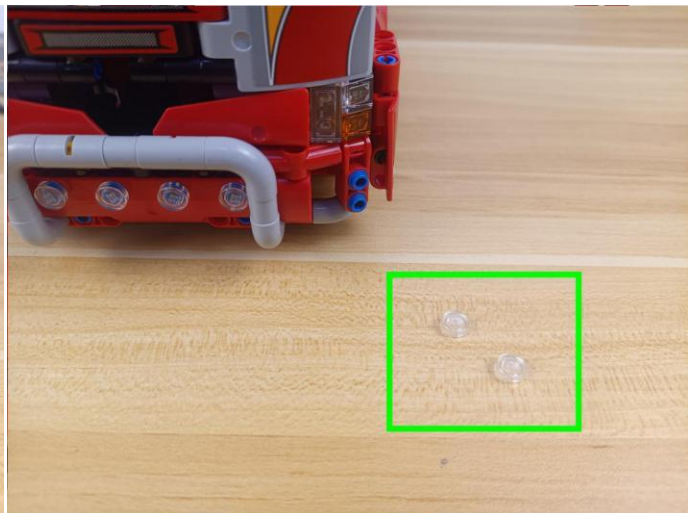
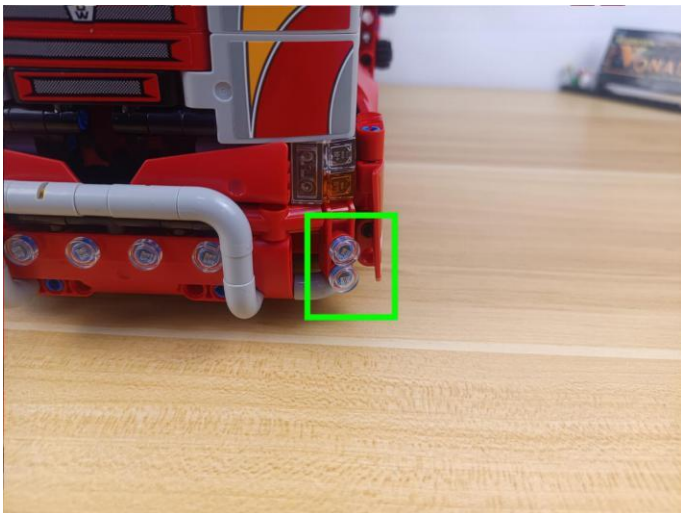
55.Turn it to the front.



56.Remove the following trans pieces from the left.



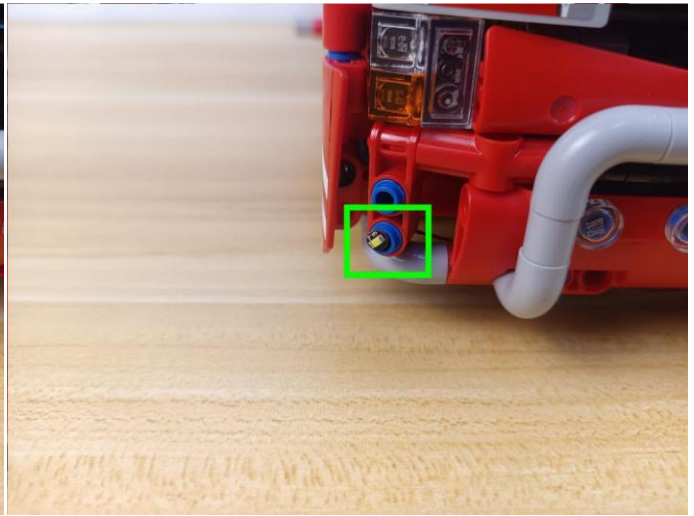
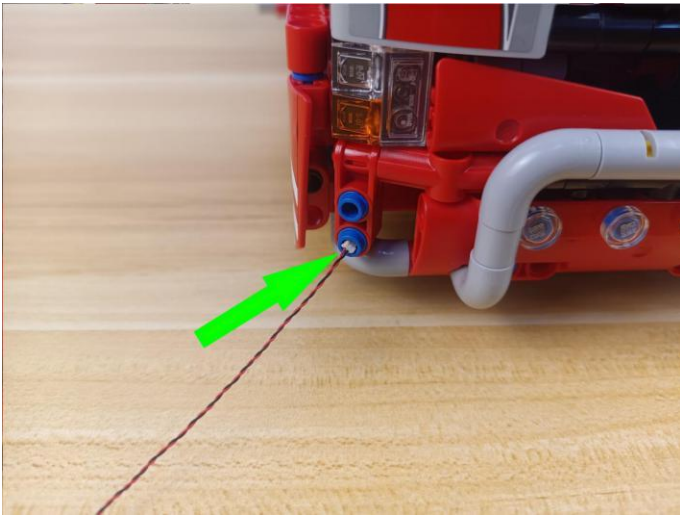
57.Continue to remove the trans pieces from the right.



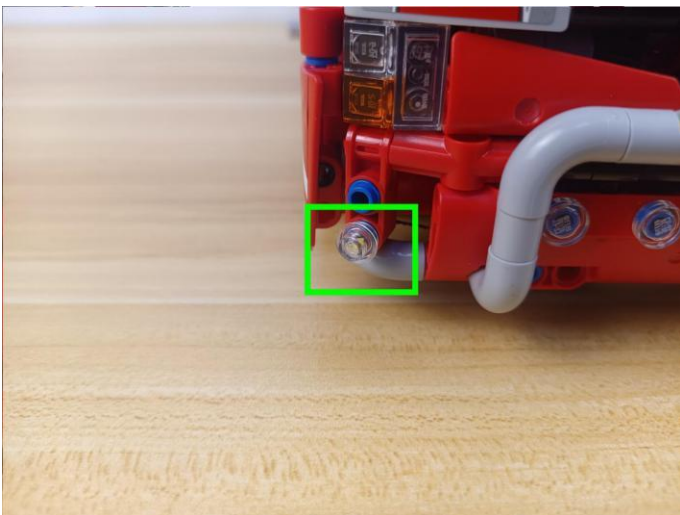
58.Take 4 white 15cm bit lights, 4 trans white 1x1 round plates (without opening).



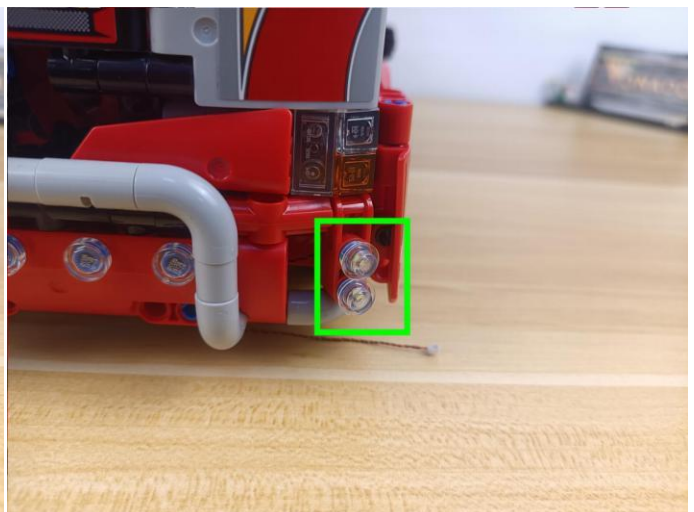
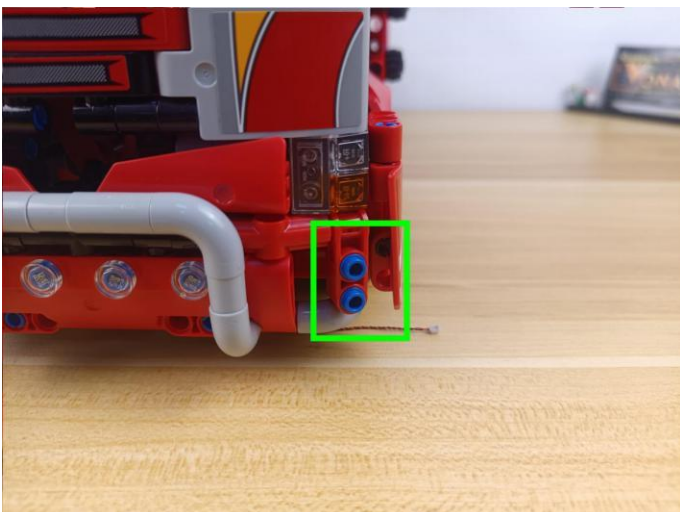
59. Thread the following cable through the hole, and pull it to the bottom.



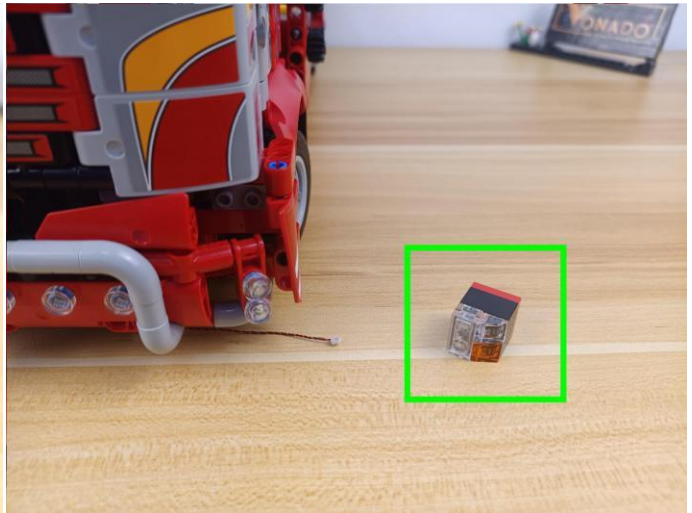
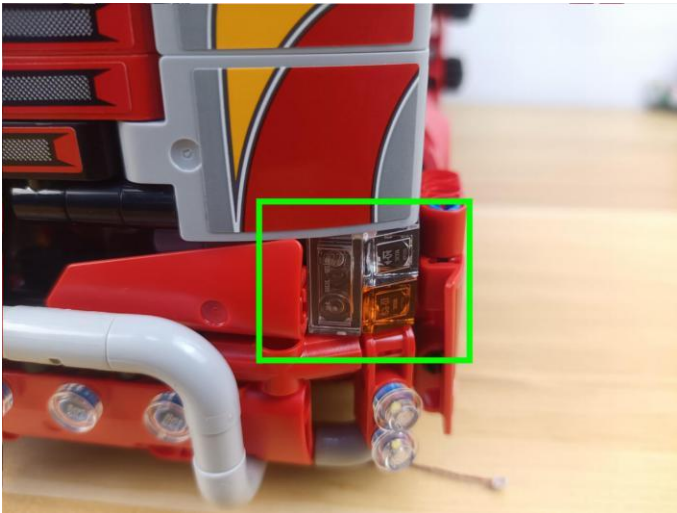
60. Connect the round plate over, connect the other light in the same way.



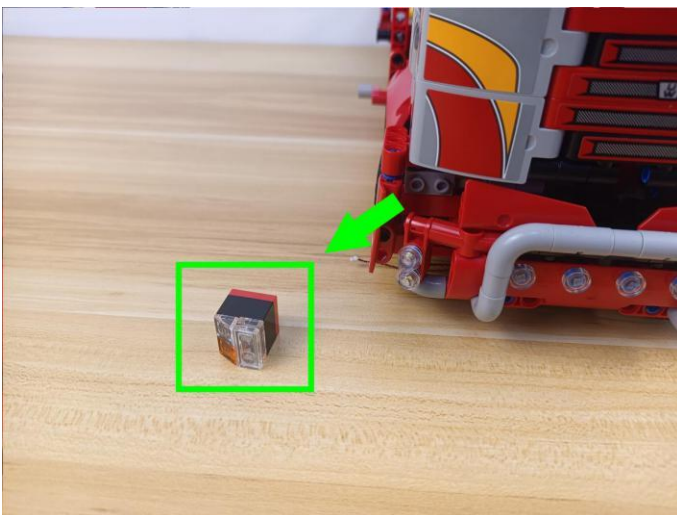
61. Install the lights at the right in the same way.



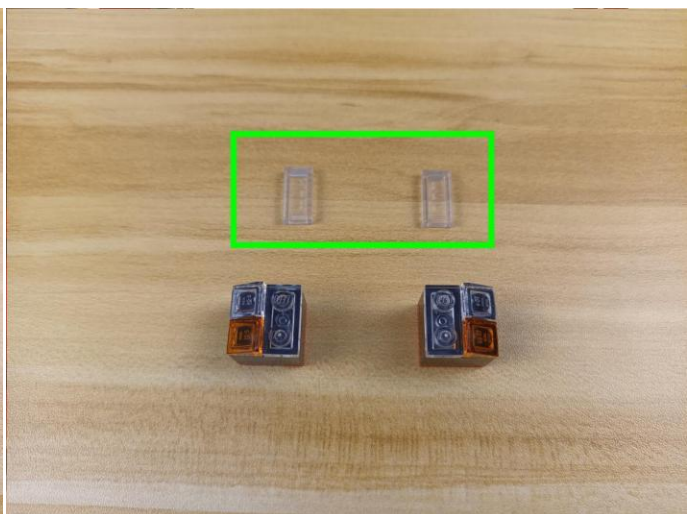
62.Remove the following head light piece.



63.Remove the piece from the left as well.



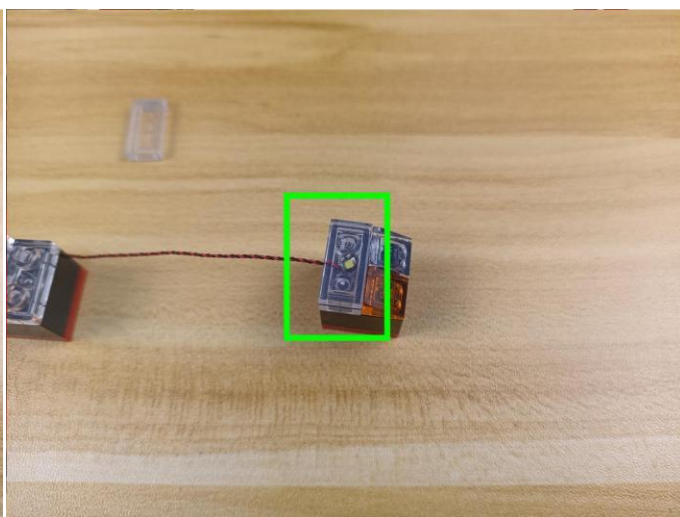
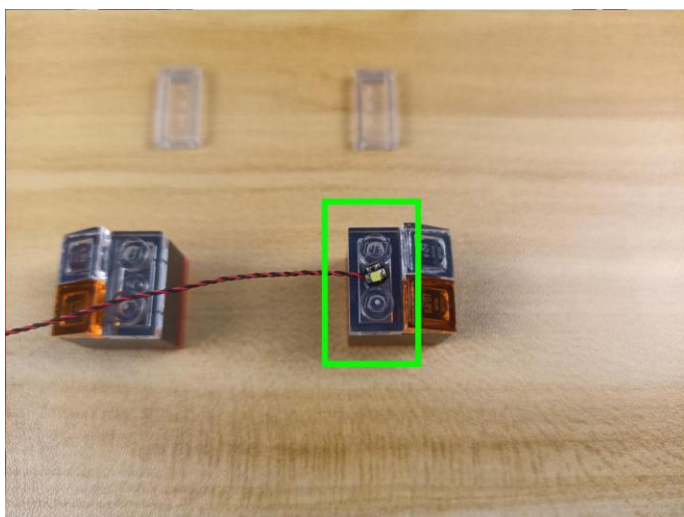
64.Disconnect the 1x2 trans plates.



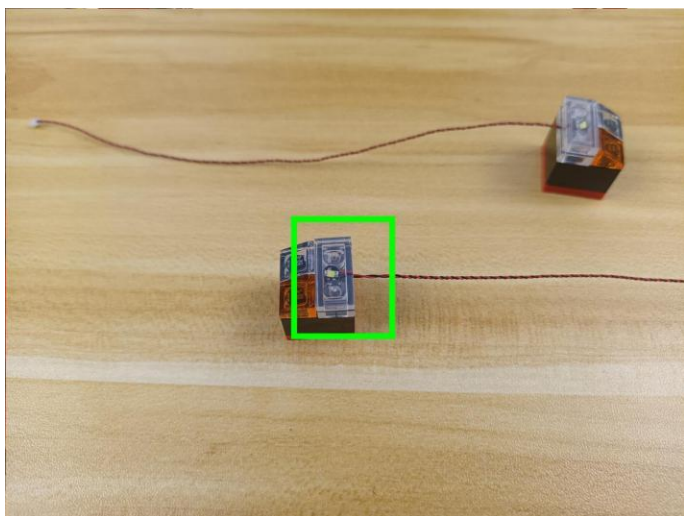
65.Take 2 white 15cm bit lights.



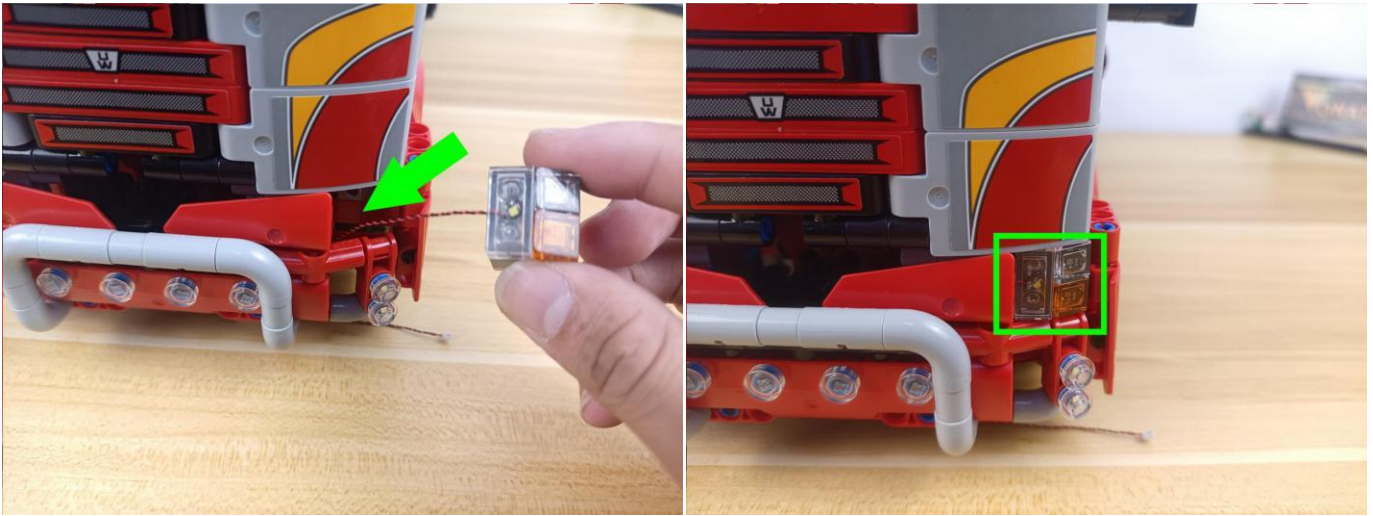
66.Place the light at the middle, reconnect the plate.



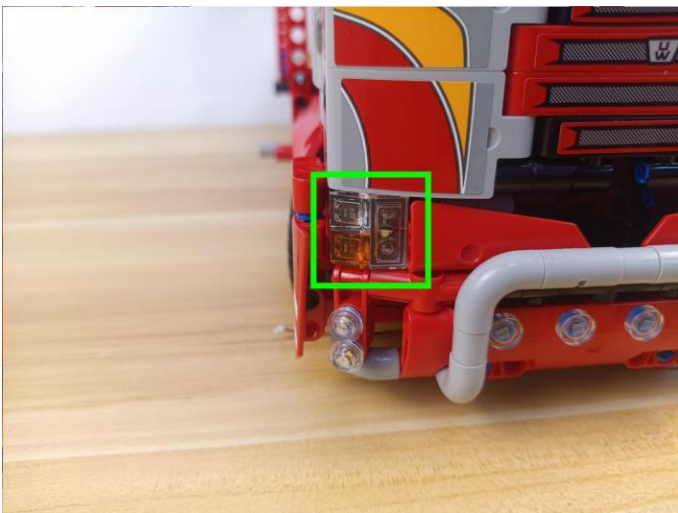
67.Install the other light in the same way.



68. Thread the cable to the bottom, reconnect the headlight to the right.



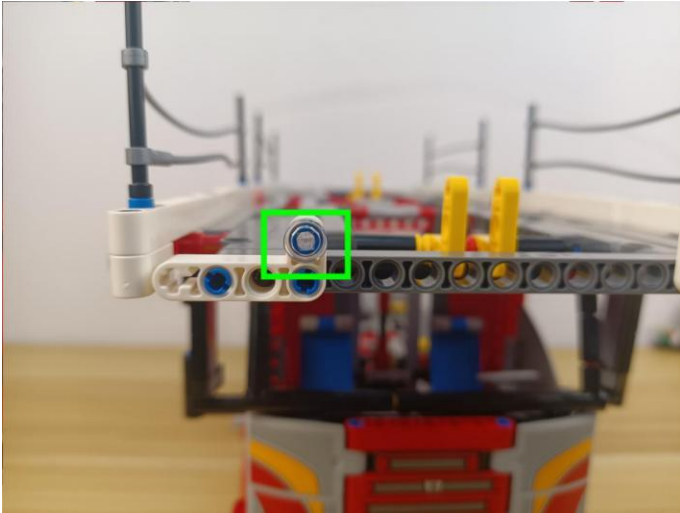
69. Reconnect the light to the left as well.



70. Turn to the following place.



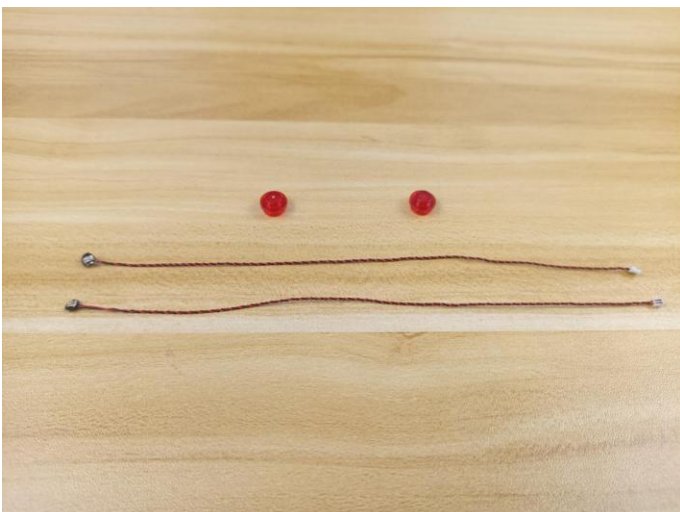
71.Remove the following trans piece.c



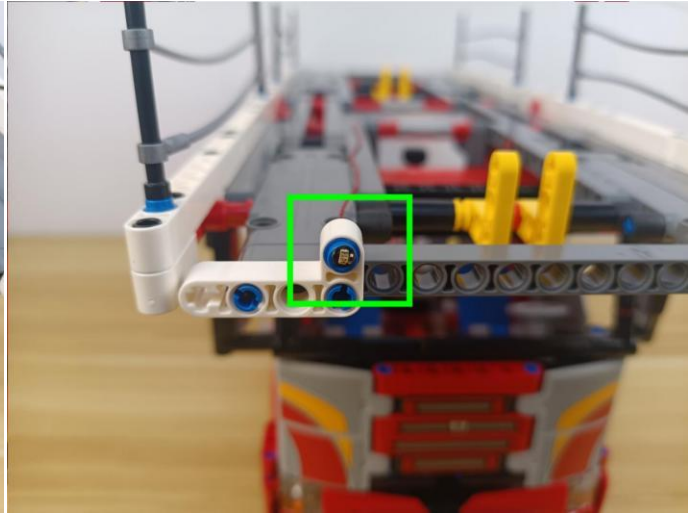
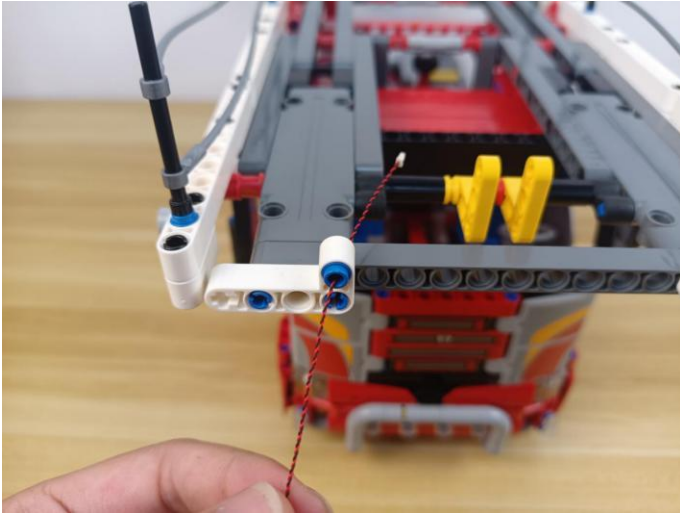
72.Continue to remove the one at the right.



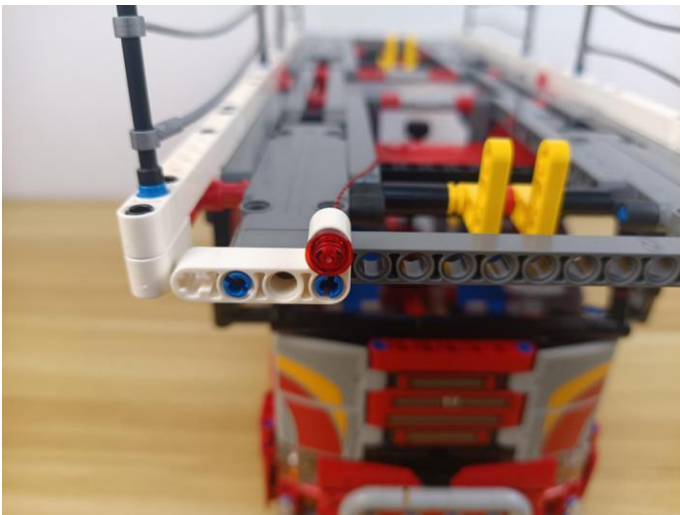
73.Take 2 red flashing 15cm bit lights, 2 trans red 1x1 round plates (without opening).



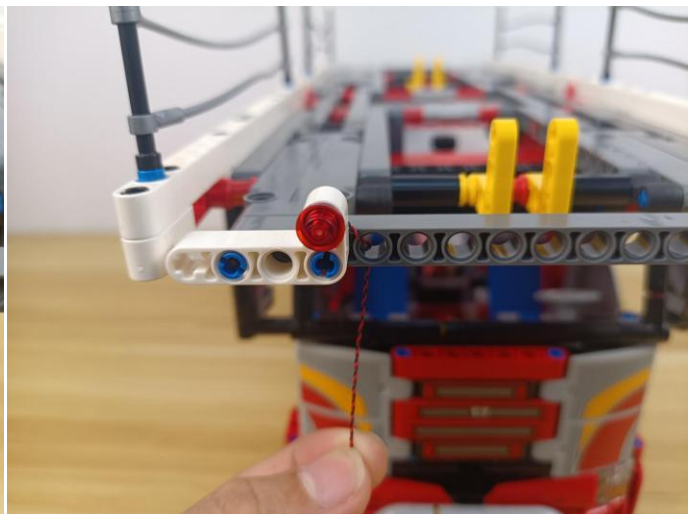
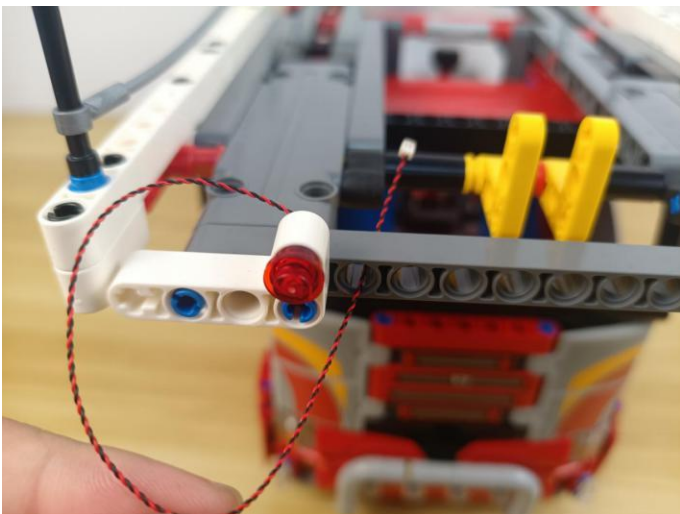
74. Thread the cable through the following space.c



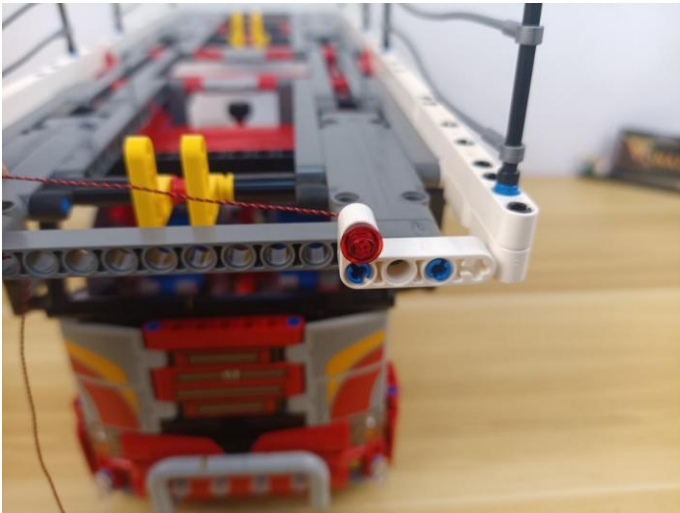
75. Connect the red round plate over.



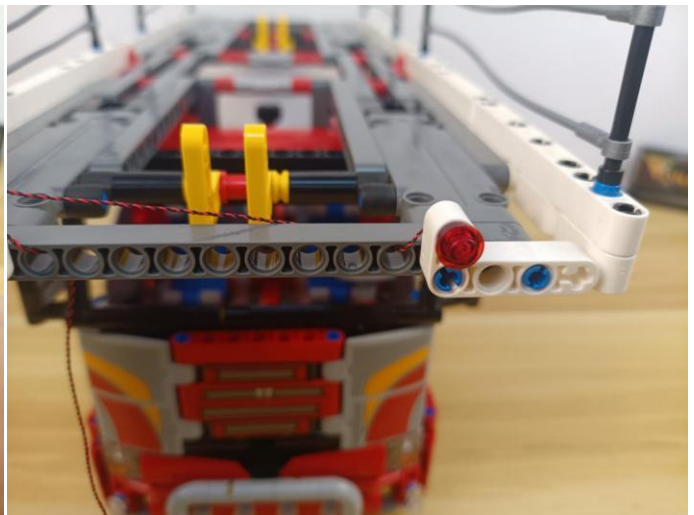
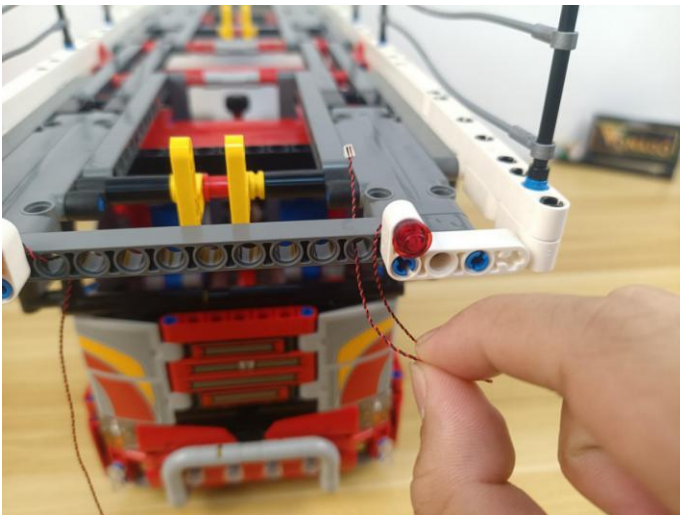
76. Thread the cable through the following space.



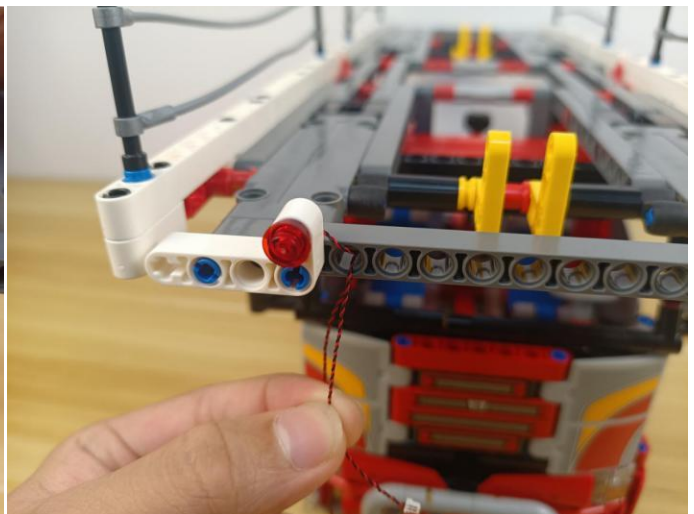
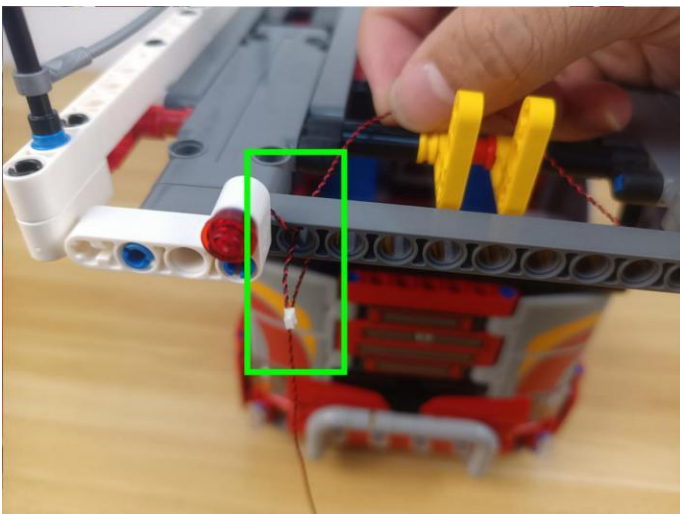
77. Install the one at the right similarly.



78. Thread the cable through the hole as well.



79. Pull the cable to the left, and thread it through the following hole.



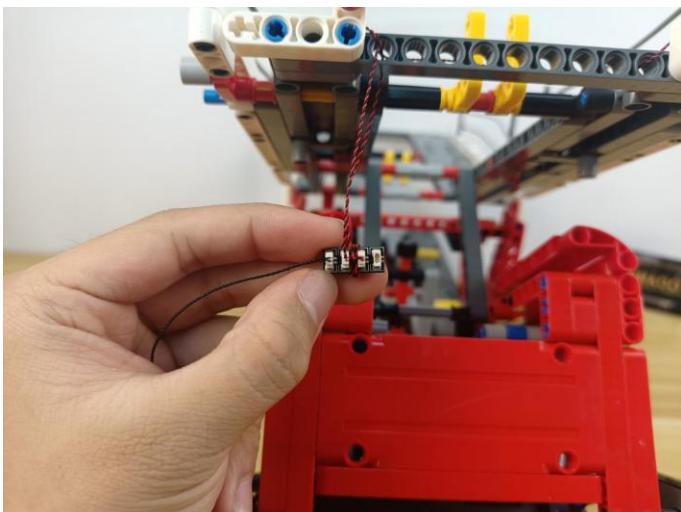
80. Turn the head over as per below.



81. Take a 4-port expansion board, a 30cm connecting cable, assemble the as per below.



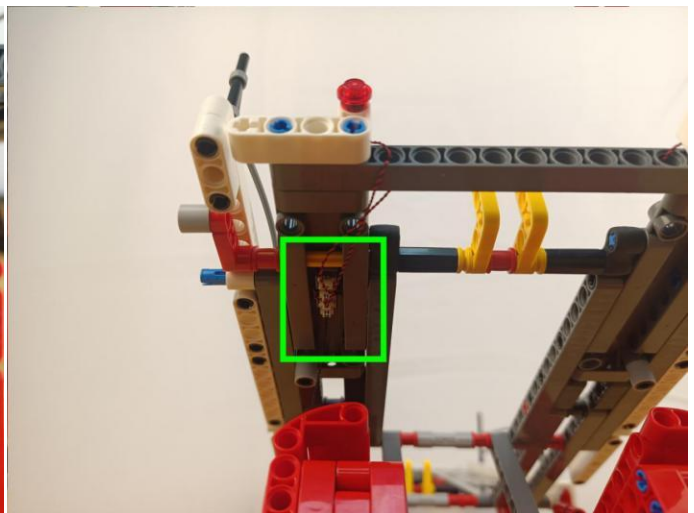
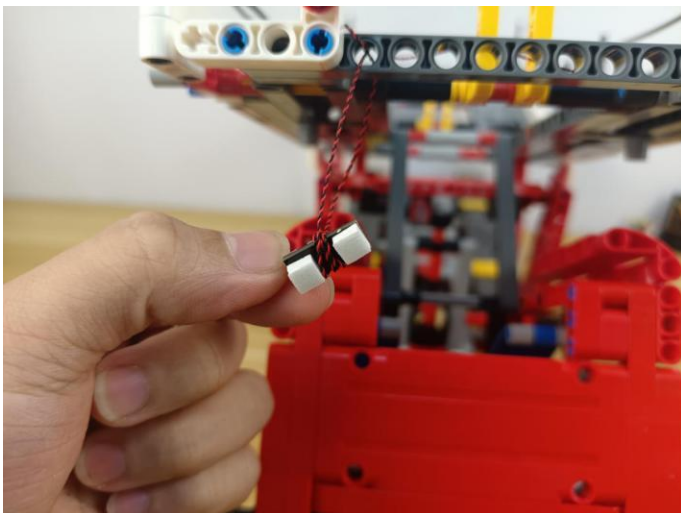
82. Connect the following 2 cables to the expansion board, and tuck excess cables around the expansion board.



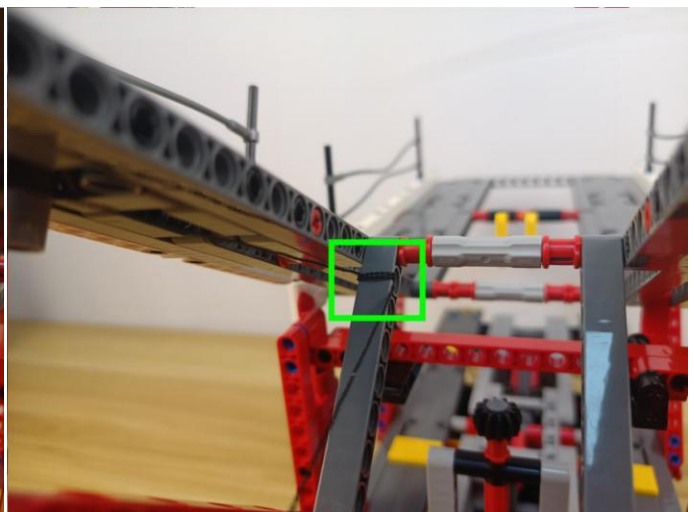
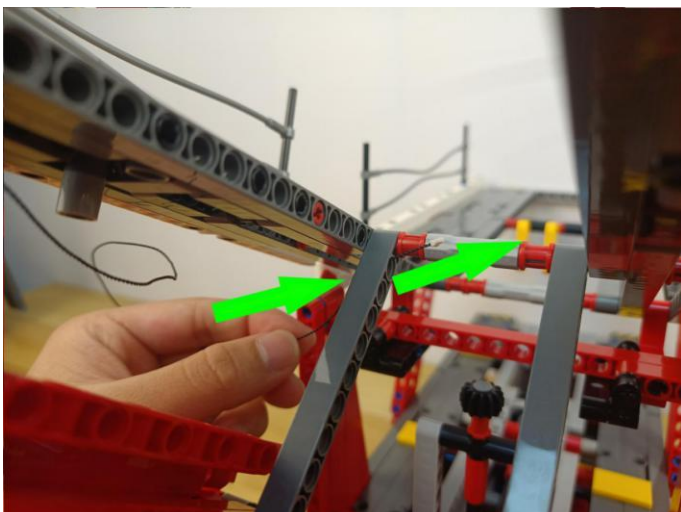
83.Take 2 adhesive squares.



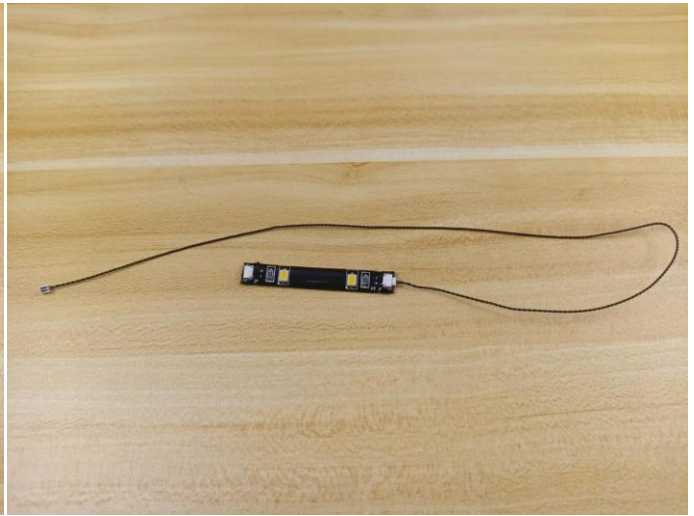
84.Stick them to the back of the expansion board, and stick the expansion board to the following place.



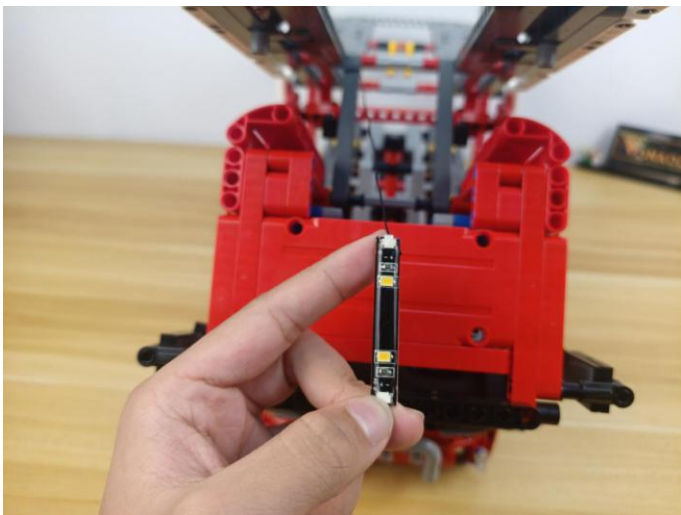
85.Pull the cable to the back, thread it through the following piece and wind it around the piece as per below.



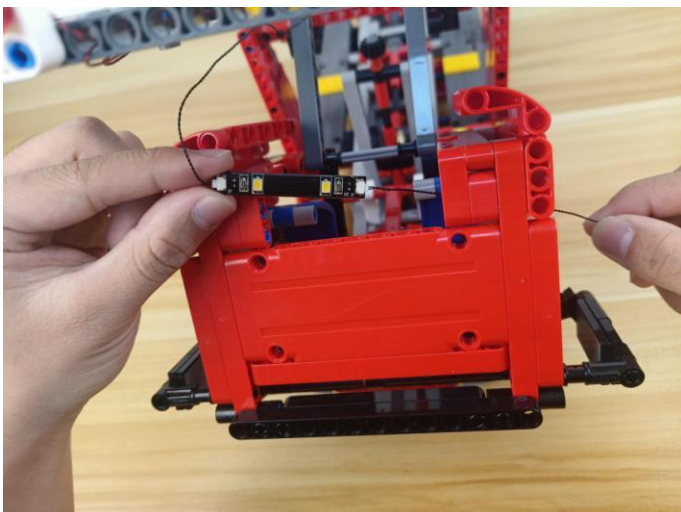
86.Take a 30cm connecting cable, a warm white strip light, assemble them as per below.



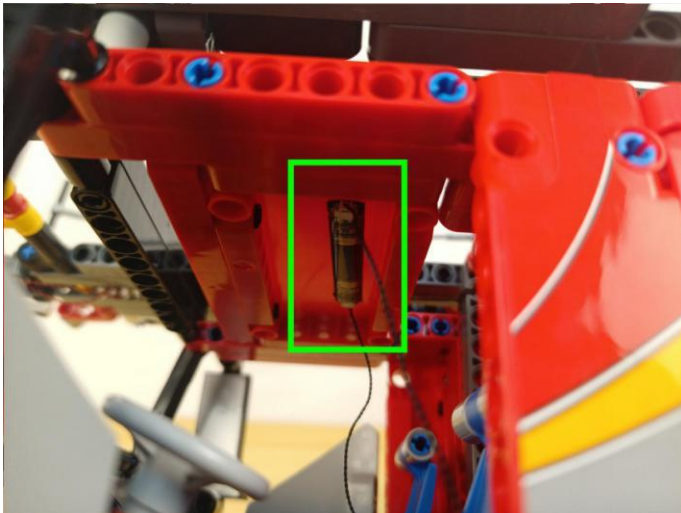
87.Connect the connecting cable to the other end of the strip light.



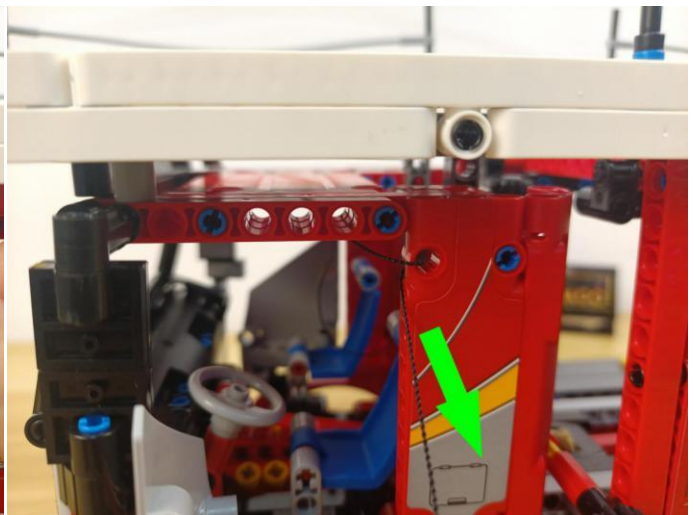
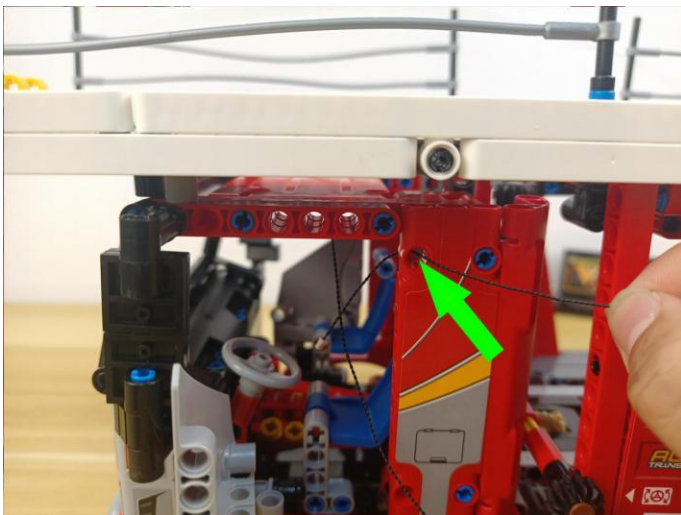
88.Continue to thread the cable from the strip light to the diver's room.



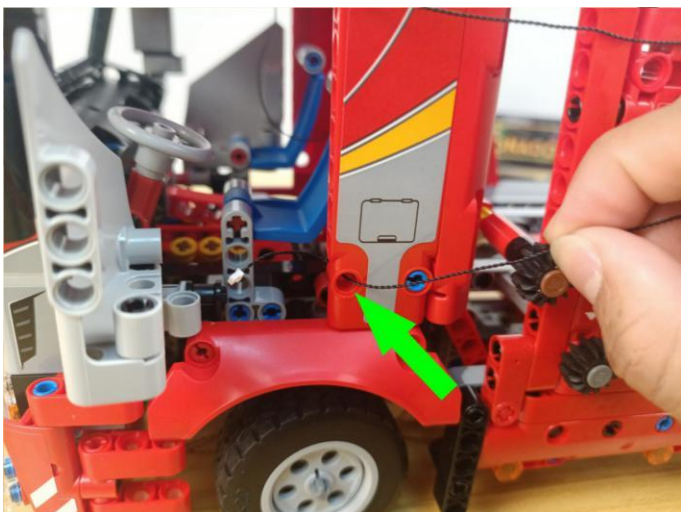
89.Stick the stirp light to the roof of the drover's room.



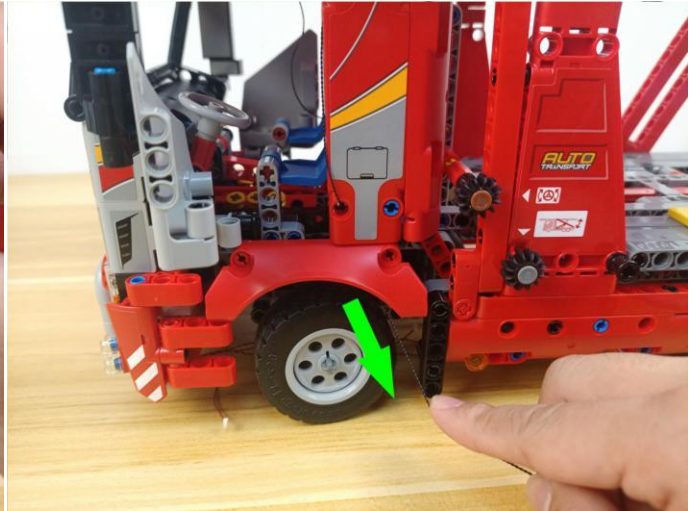
90.Turn to the side, thread the cable through the following hole and tighten it up.



91.Continue to thread it through the following hole.



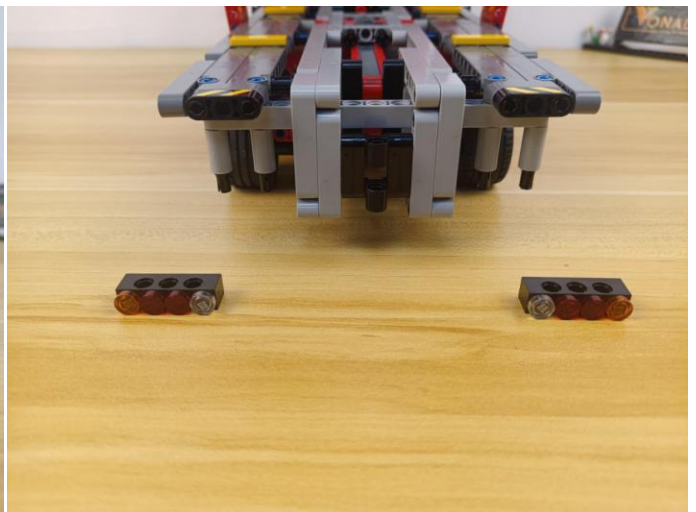
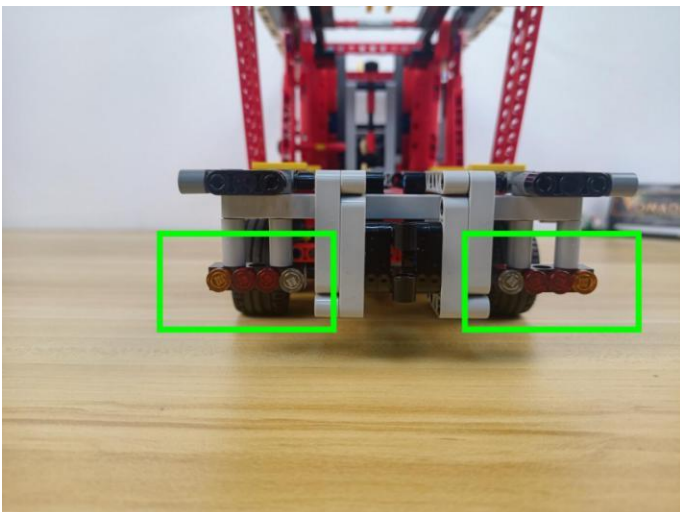
92. Thread it to the bottom.



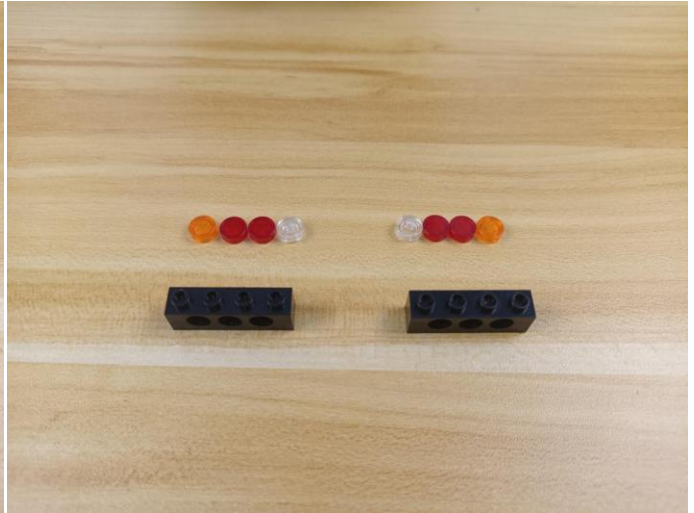
93. Turn to the tail.



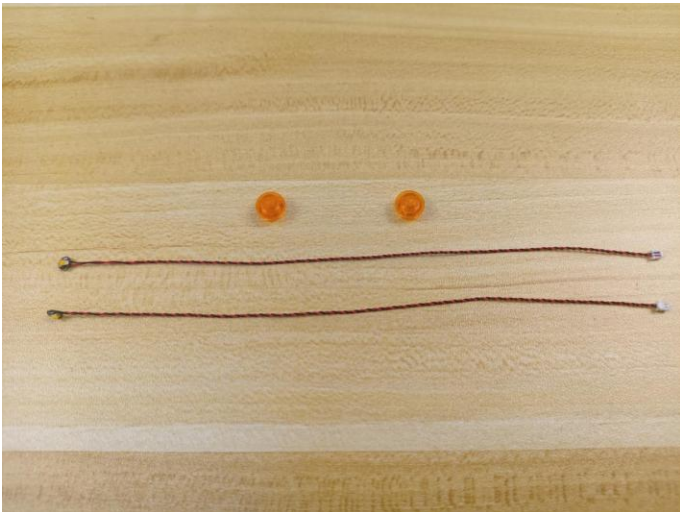
94. Remove the taillight pieces.



95.Disconnect the trans pieces.



96.Take 2 warm white 15cm bit lights, 2 trans orange 1x1 round plates (with opening).

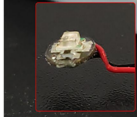


Tips

The plate without slit:

The plate without slit:

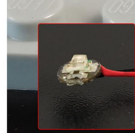
The squeeze causes the protective layer of the wire to be torn apart, the positive and negative wires touch together, and the set is short-circuited and the hot wire is crushed, the wire to be disconnected and don't work.



The plate with slit:

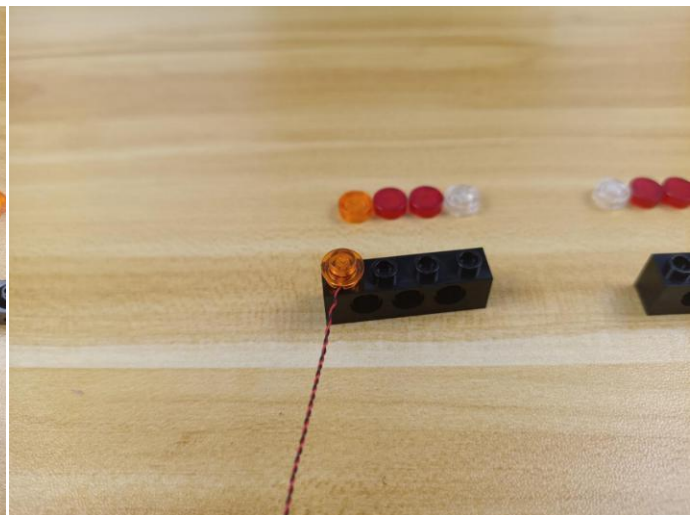
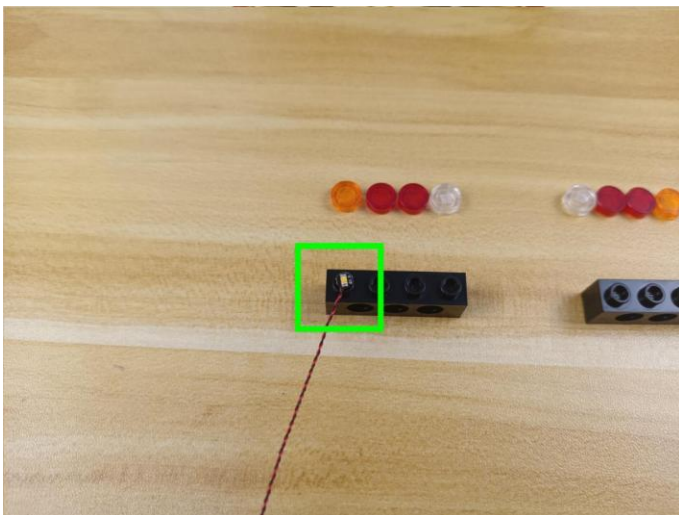
The plate with slit:

The wire has enough space to avoid being squeezed and endowed with longer service life and more stable effect.

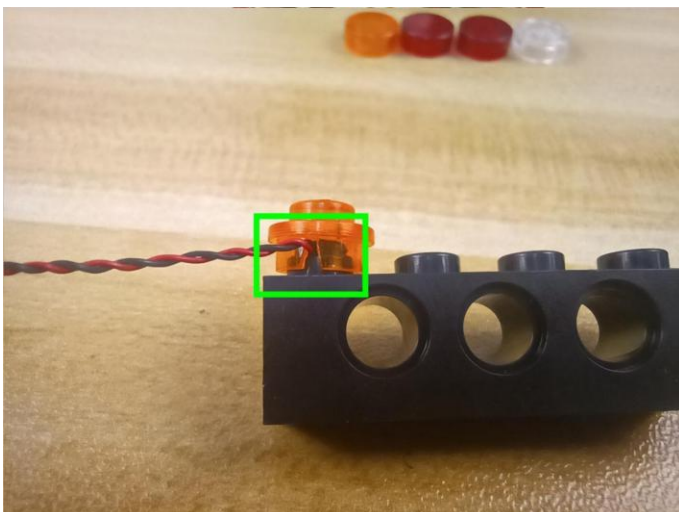


The slit on the the plate round 1X1 are hand-made to avoid squeeze the wire and cause short circuit and abnormal heat during installation.

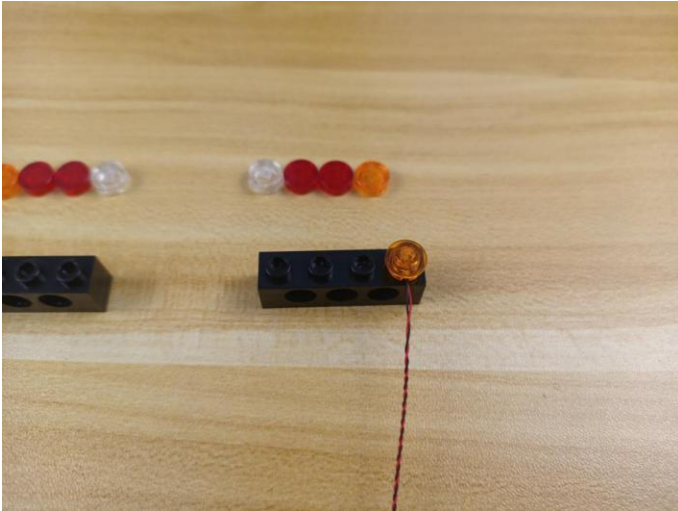
97.Place the light as per below, connect the round plate over.



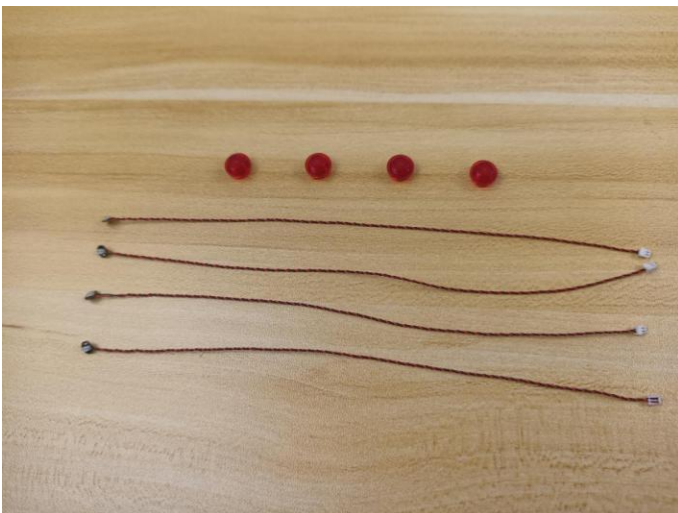
98.Stuck the cable at the opening.



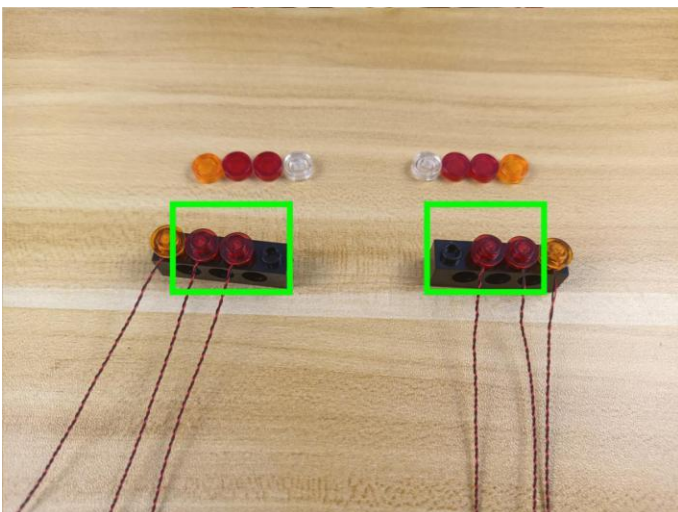
99. Install the other light in the same way.



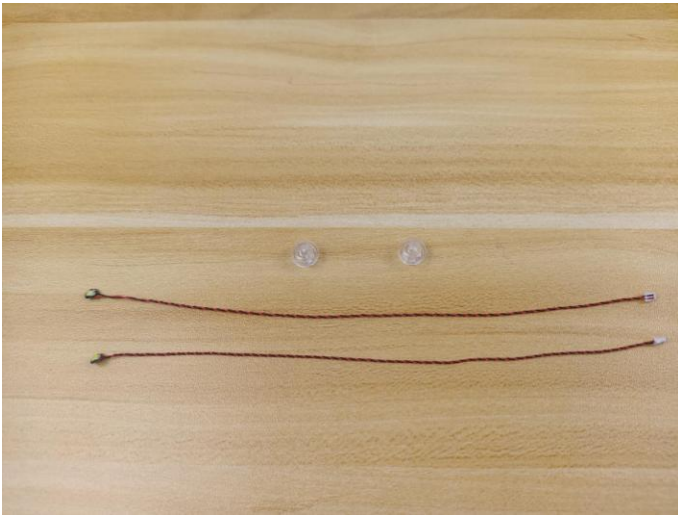
100. Take 4 red 15cm bit lights, 4 trans red 1x1 round plates (with opening).



101. Install them as we did before.



102.Take 2 white 15cm bit lights, 2 trans white1x1 round plates (with opening).



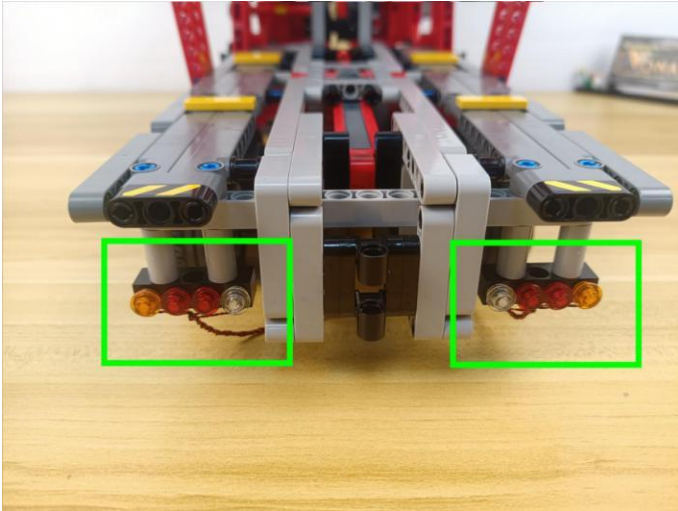
103.Install them to the following places as we did before.



104.Group the cables together respectively.



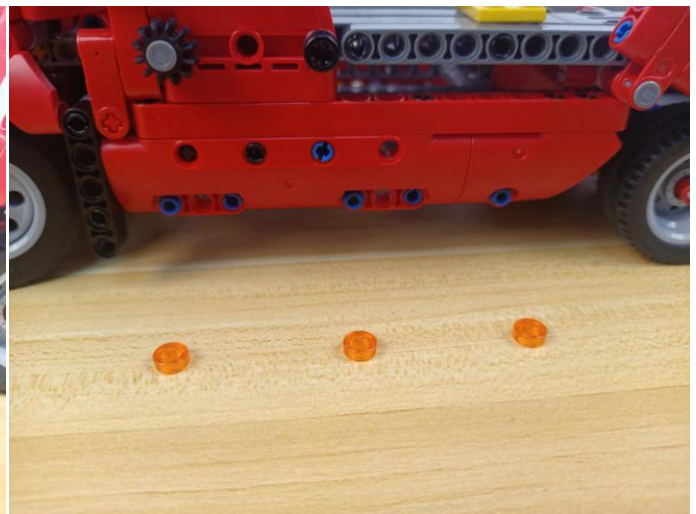
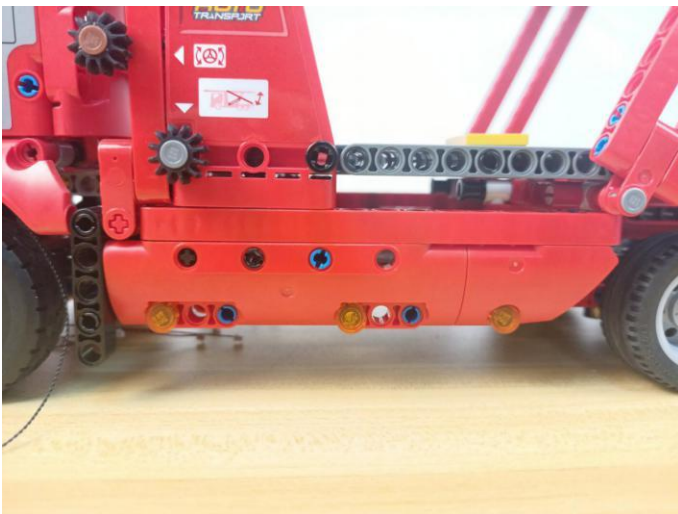
105. Reconnect the taillights.



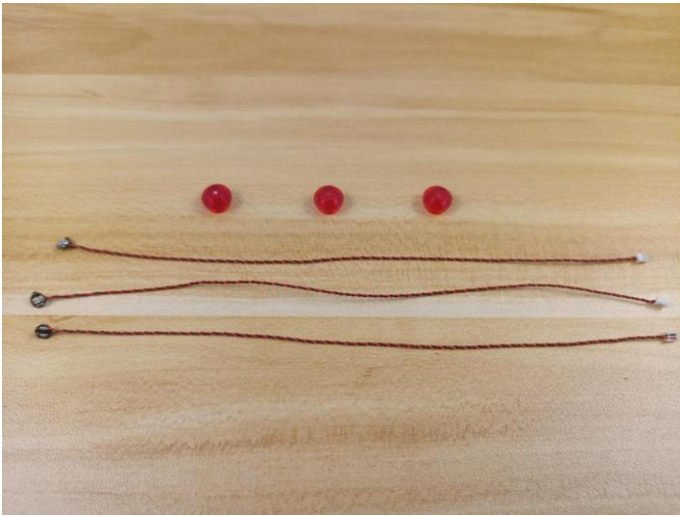
106. Turn to the side.



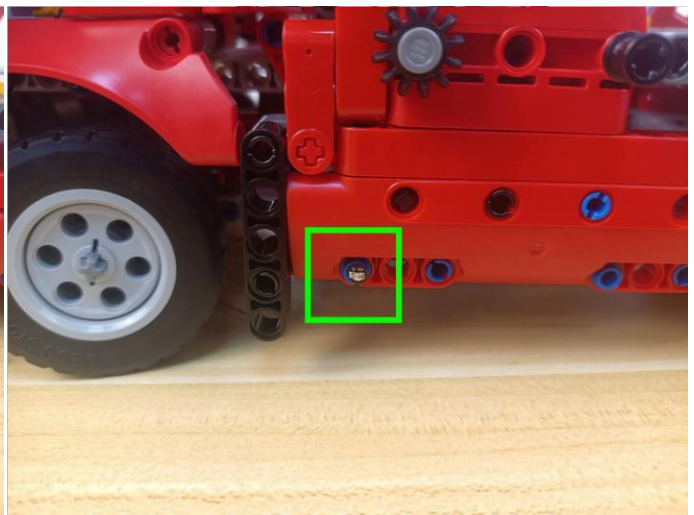
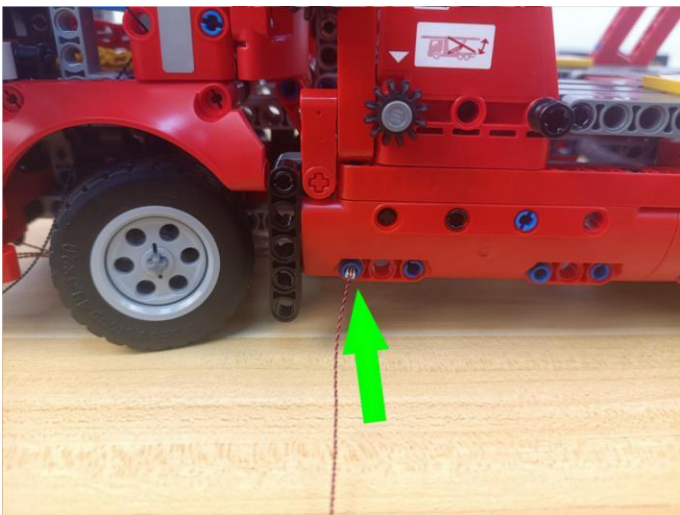
107. Remove the trans pieces from the side.



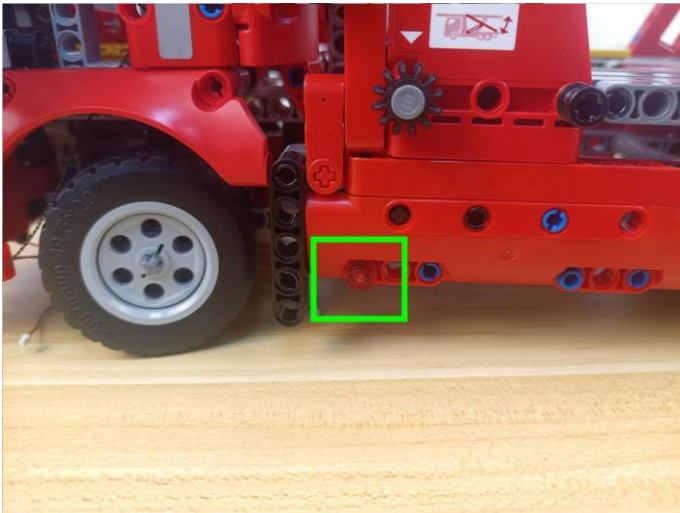
108. Take 3 red flashing 15cm bit lights, 3 trans red 1x1 round plates (without opening).



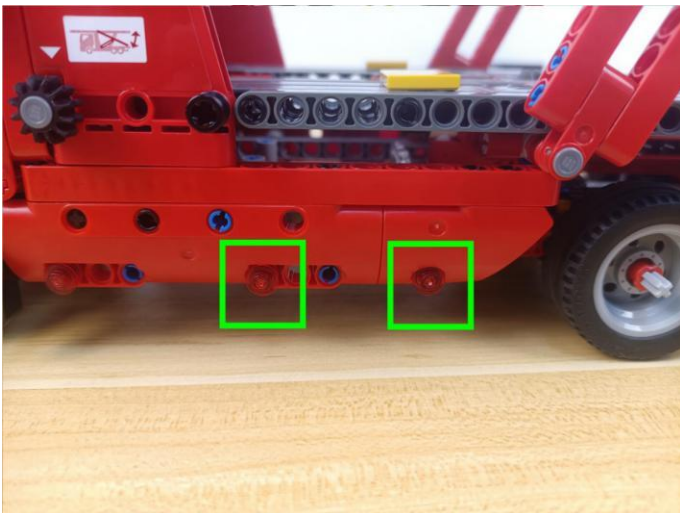
109. Thread the cable through the following hole.



110. Connect the red round plate over.



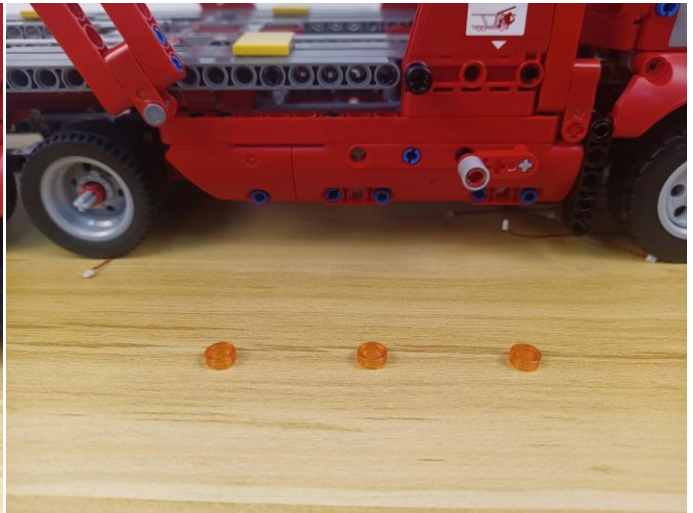
111. Install the other 2 lights in the same way.



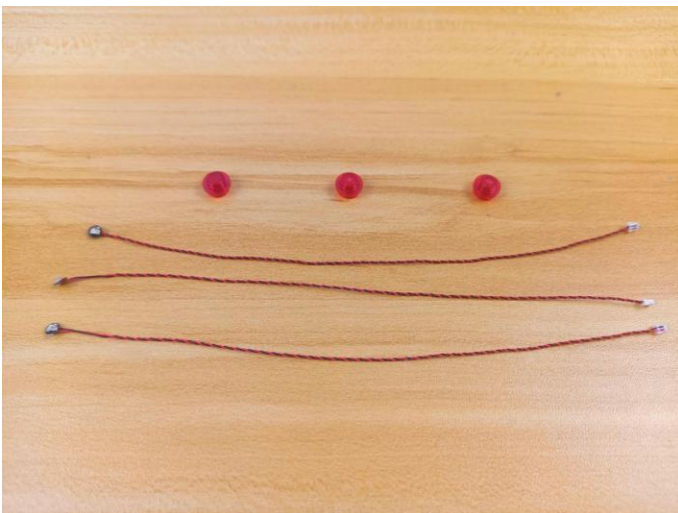
112. Turn to the other side.



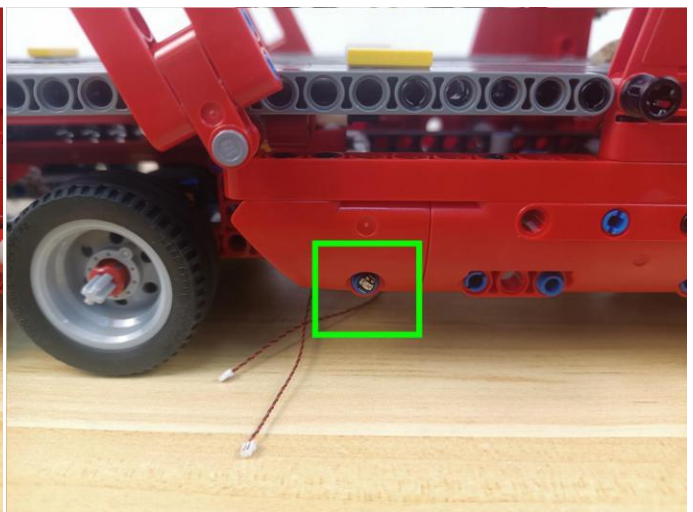
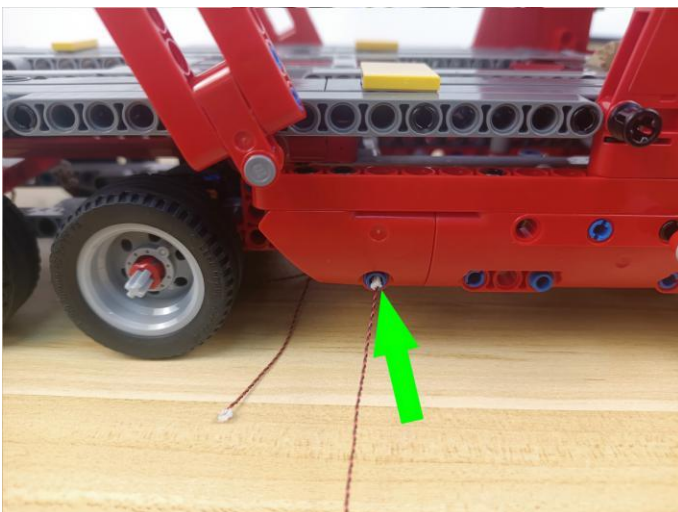
113. Remove the trans pieces from the side.



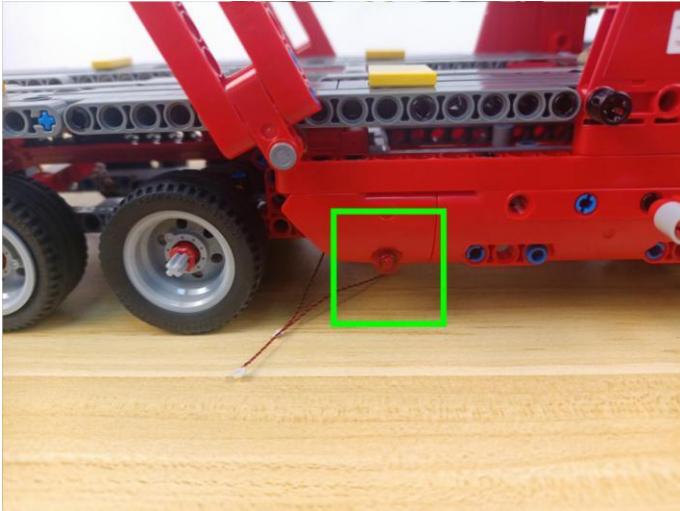
114. Take 3 red flashing 15cm bit lights, 3 trans red 1x1 round plates (without opening).



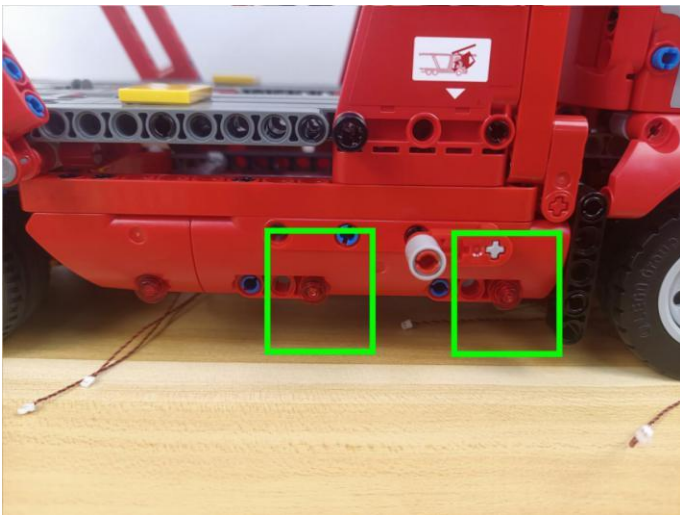
115. Thread the cable through the following hole.



116. Connect the red round plate over.



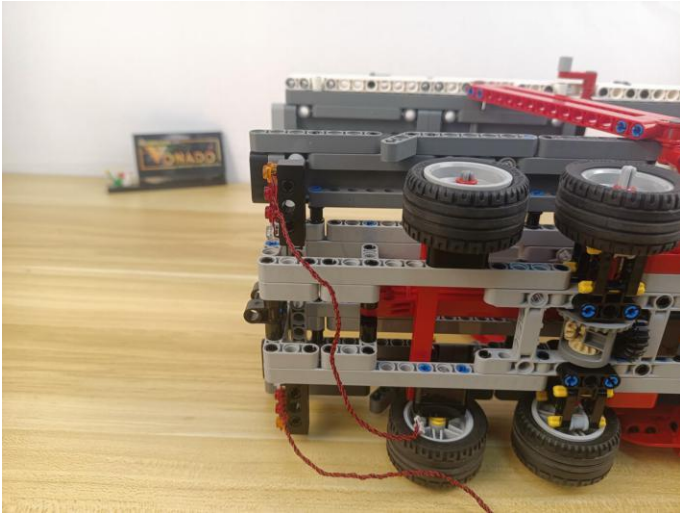
117. Install the other 2 lights in the same way.



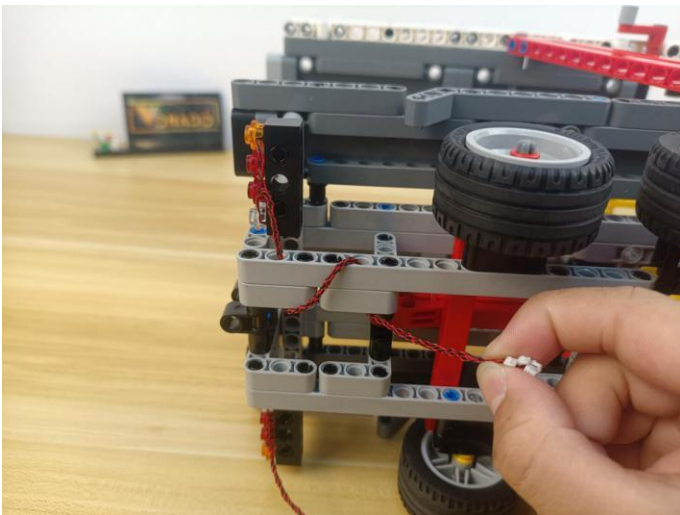
118. Turn the car over.



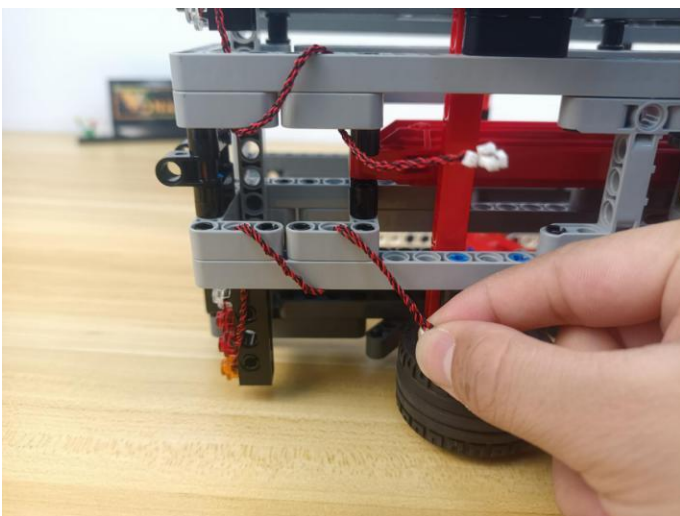
119. Turn to the tail.



120. Wind the cables around the following piece.



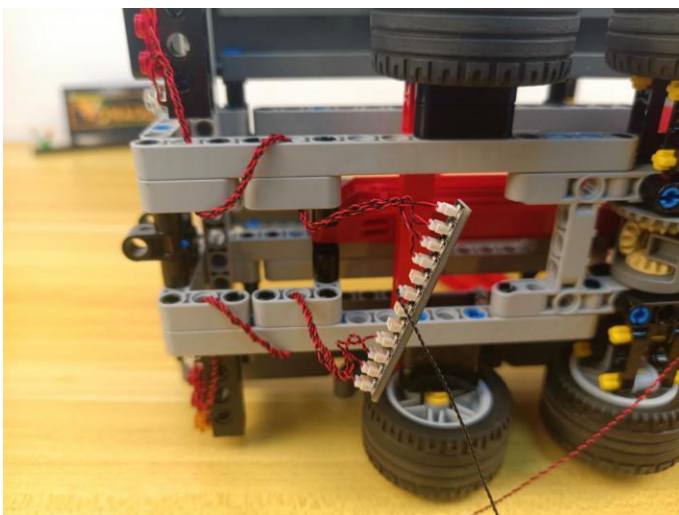
121. Place the cables underneath similarly.



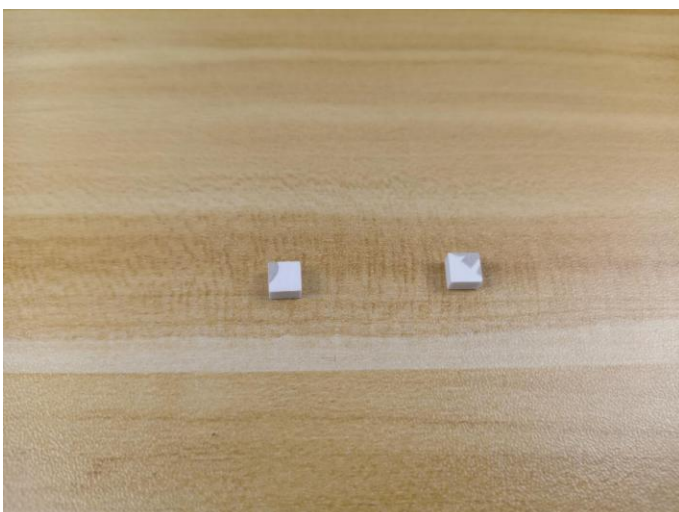
122.Take a 15cm connecting cable, a 12-port expansion board, assemble the as per below.



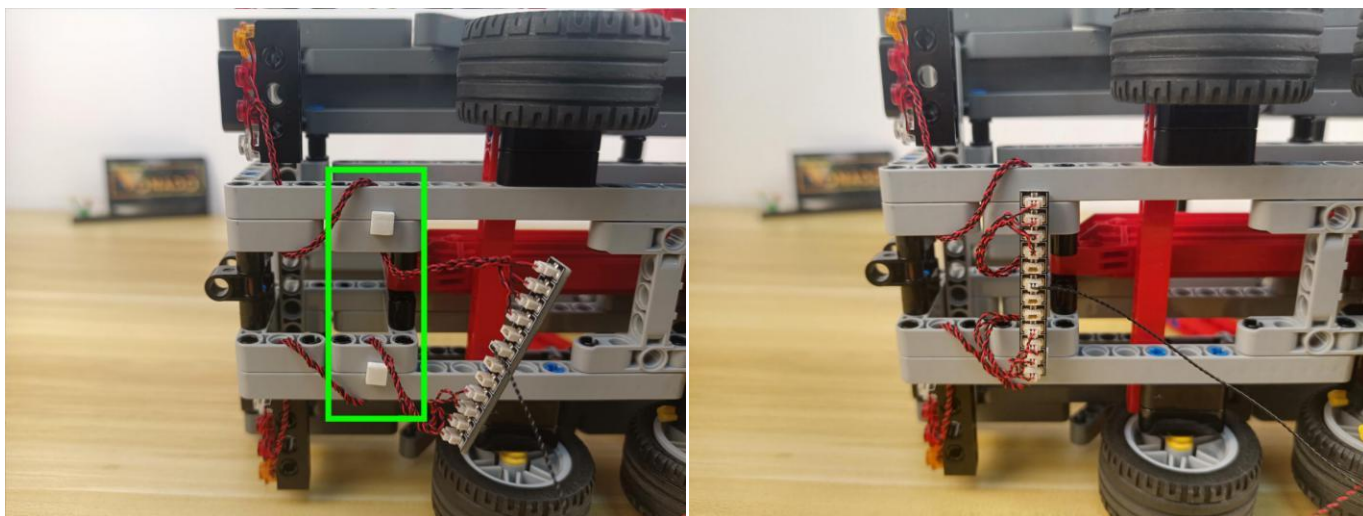
123.Connect the following taillights cables to the expansion board.



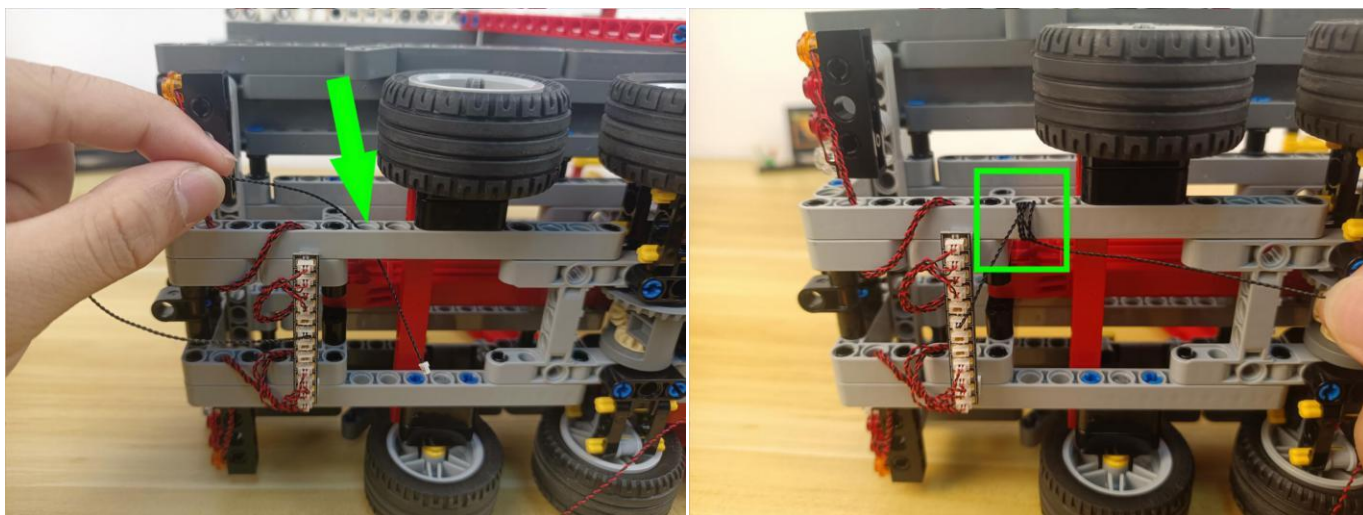
124.Take 2 adhesive squares.



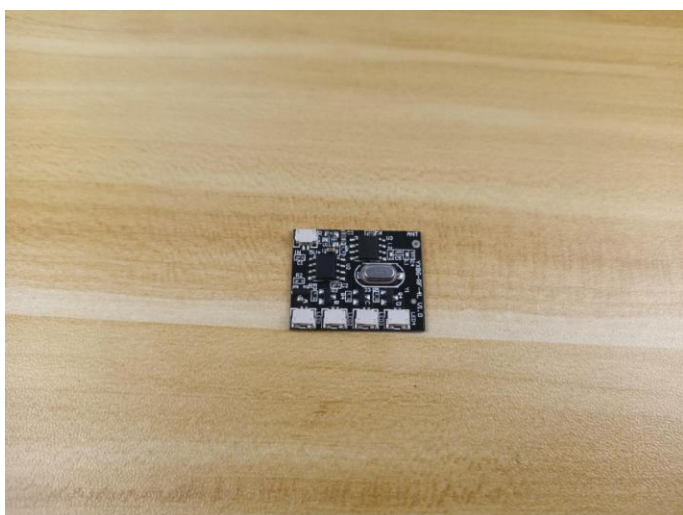
125.Stick them to the following place, and stick the expansion board to them.




126.Thread the connecting cable from the expansion board through the following hole and wind around the following piece.



127.Take a Remote Control Switch Board.

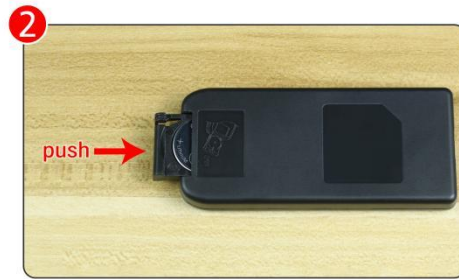


Remote control function description

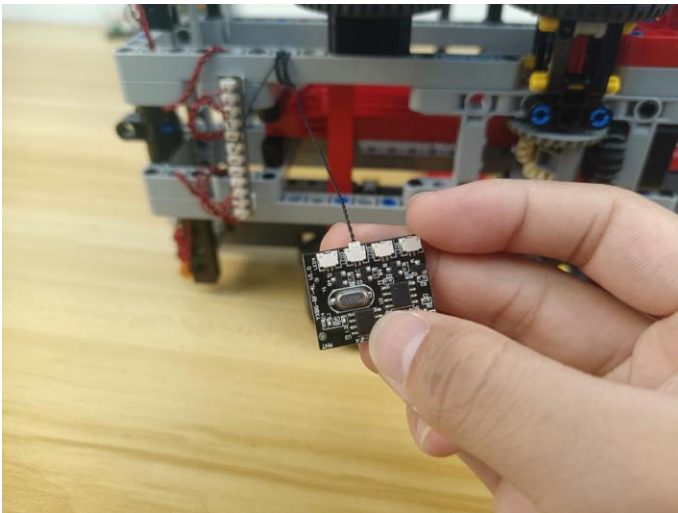


- ON: All branches are opened
- OFF: all branches are closed
- A: open/close A road
- B: open/close B road
- C: open/close C road
- D: open/close D road
- FS: Turn on blinking for the last open channel
- BLN: Start breathing for the last opened path
- ↑: Increase blinking/breathing rate
- ↓: Increase blinking/breathing rate
- Brightness+: Increase brightness
- Brightness -: Reduce brightness

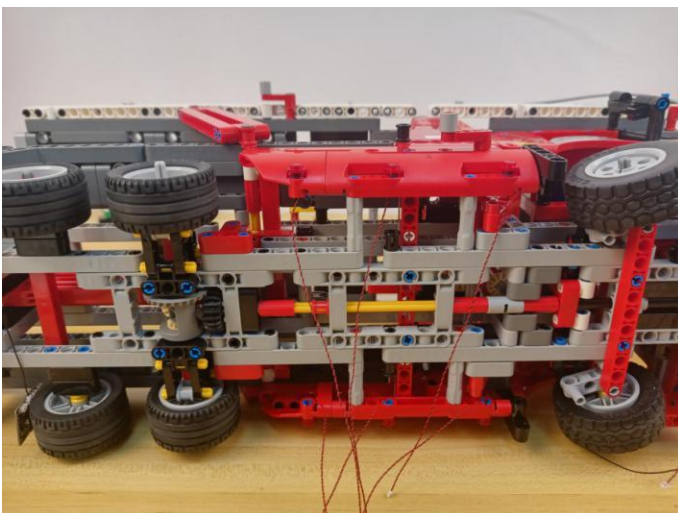
The remote control does not contain batteries, please buy a CR2025 or CR2032 button battery in the nearest store and install it in the remote control.



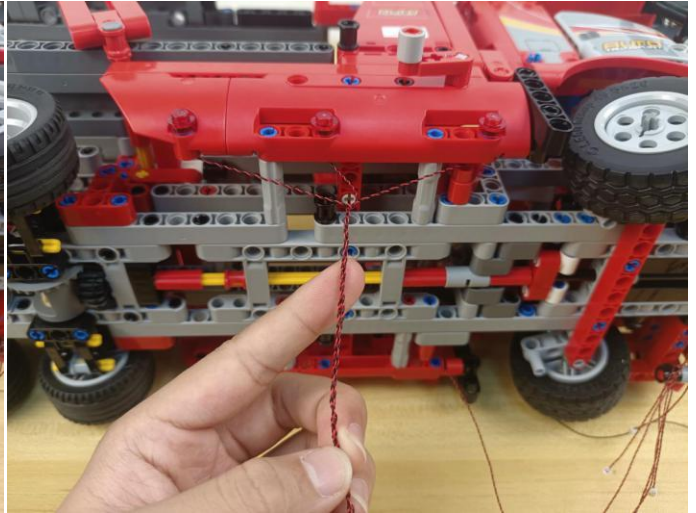
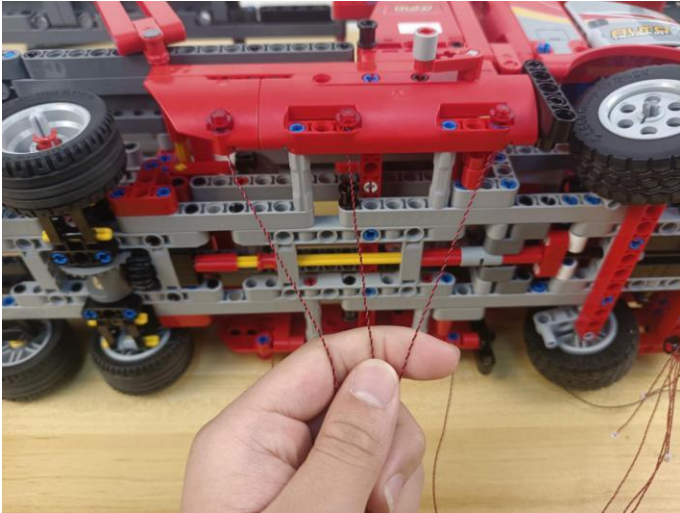
128. Connect the connecting cable to the C port on the Remote Control Switch Board.



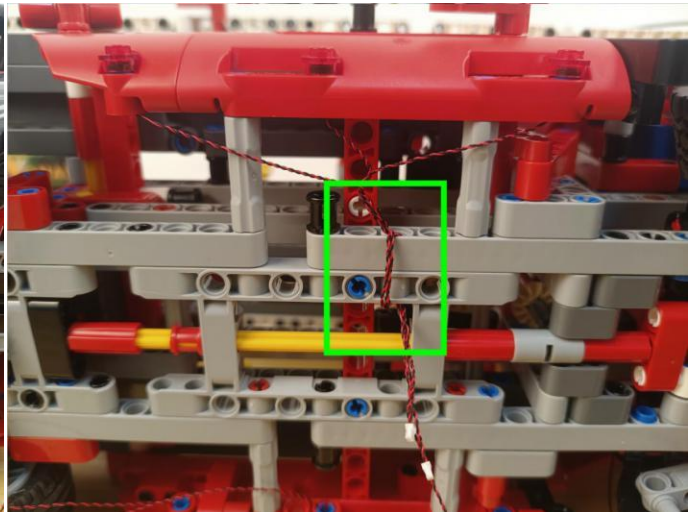
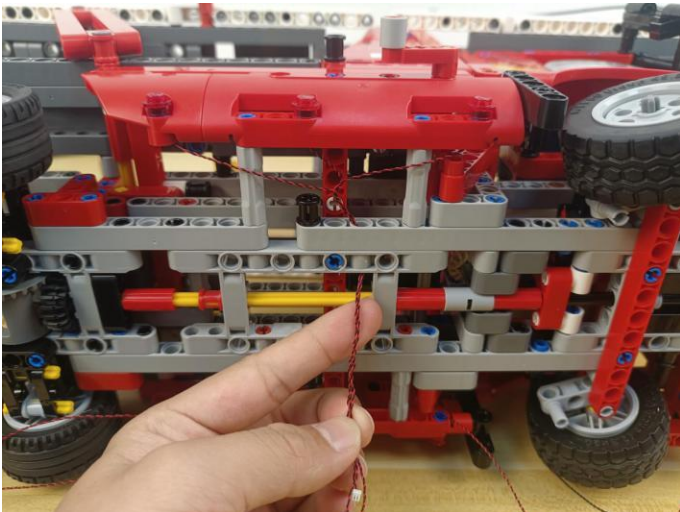
129. Turn to the middle.



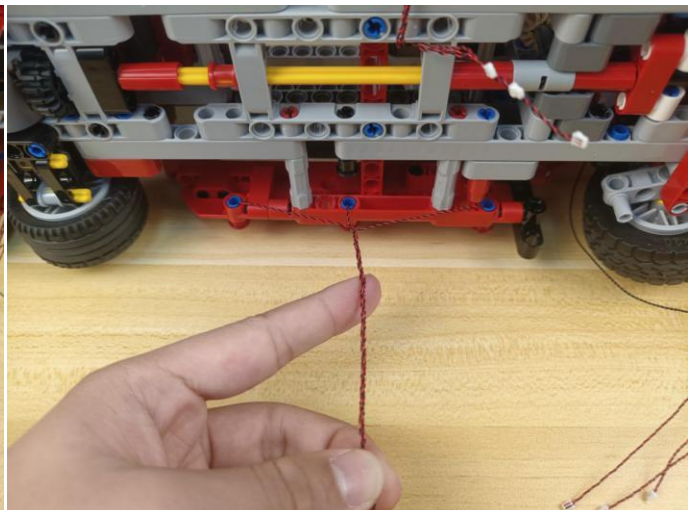
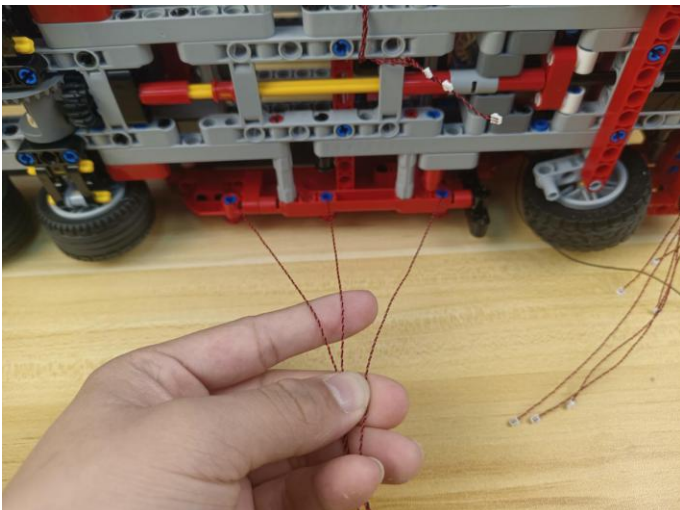
130. Group the cables above together as per below.



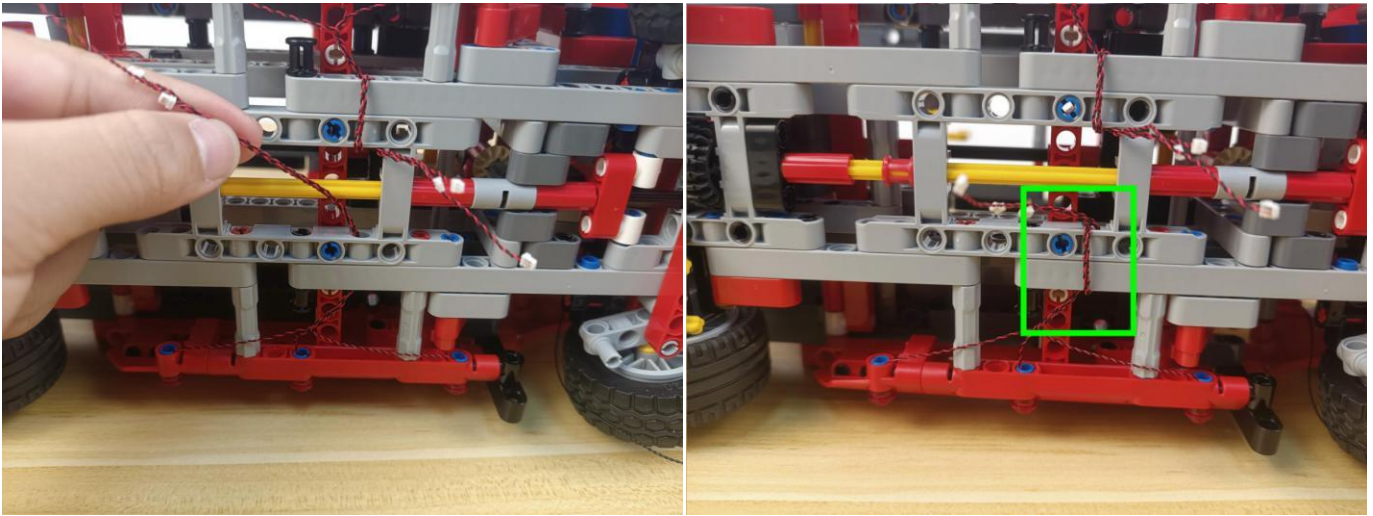
131. Thread the cables through the following hole and wind it around the piece.



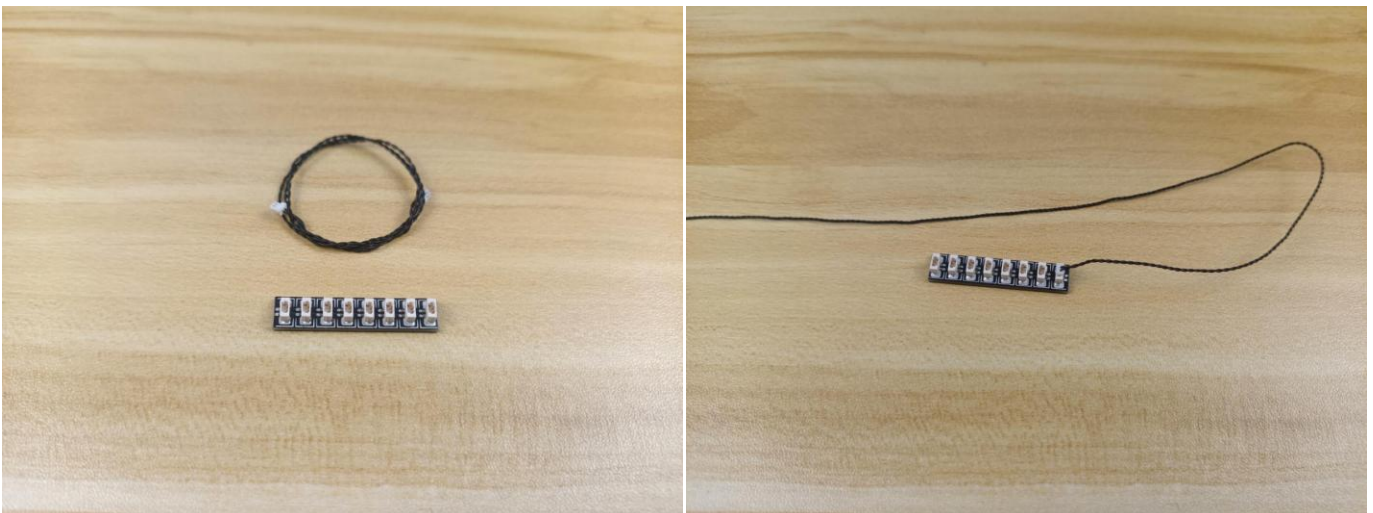
132. Group the cables underneath together.



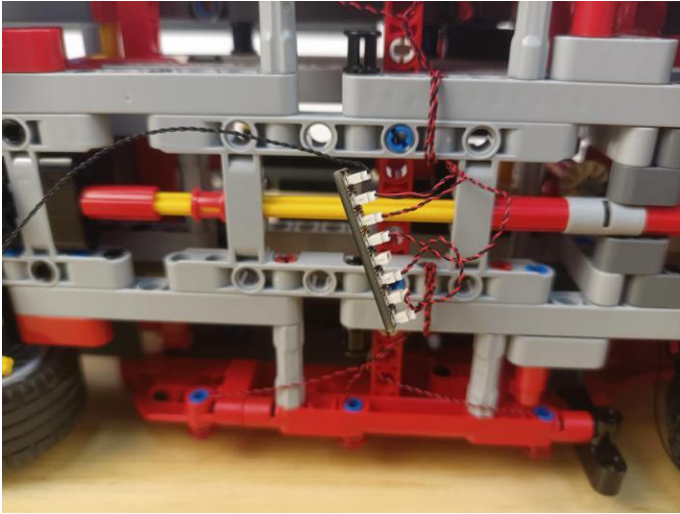
133. Thread the cable through the following hole and wind it around the piece.



134. Take a 30cm connecting cable, an 8-port expansion board, assemble the as per below.



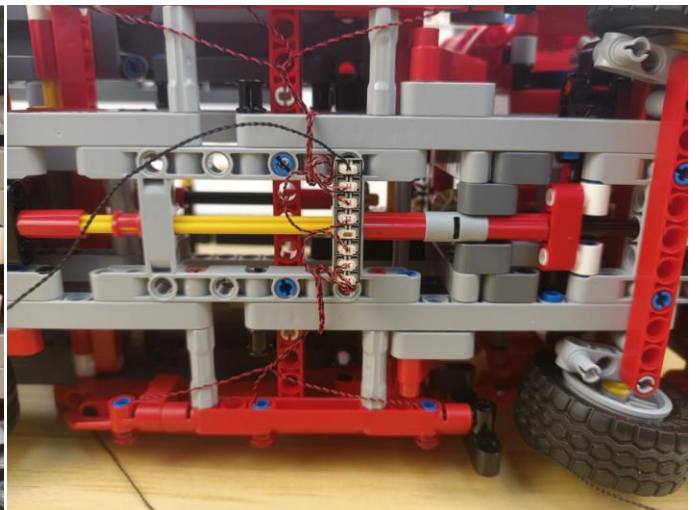
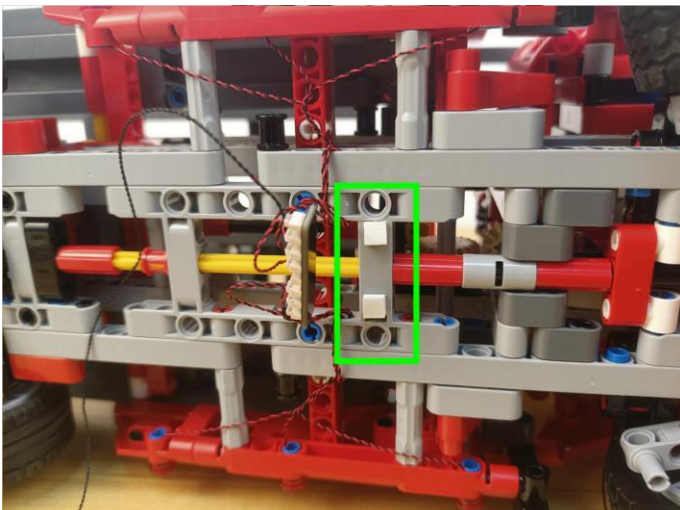
135. Connect the cables of the lights at the middle to the expansion board.



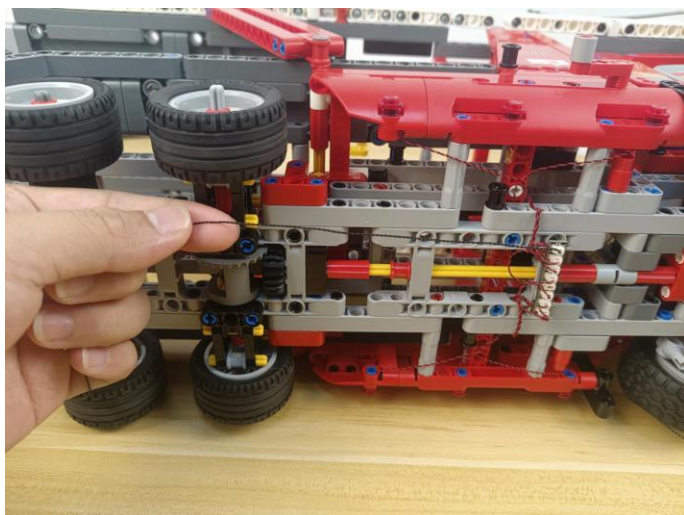
136. Take 2 adhesive squares.



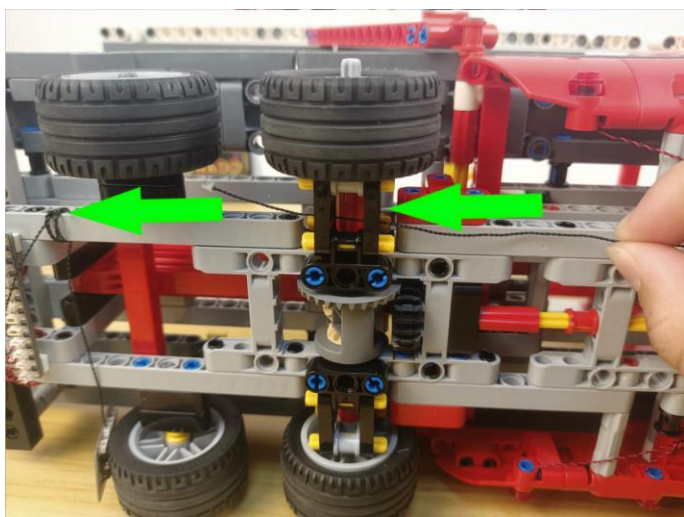
137. Stick them to the following place, and stick the expansion board to them.



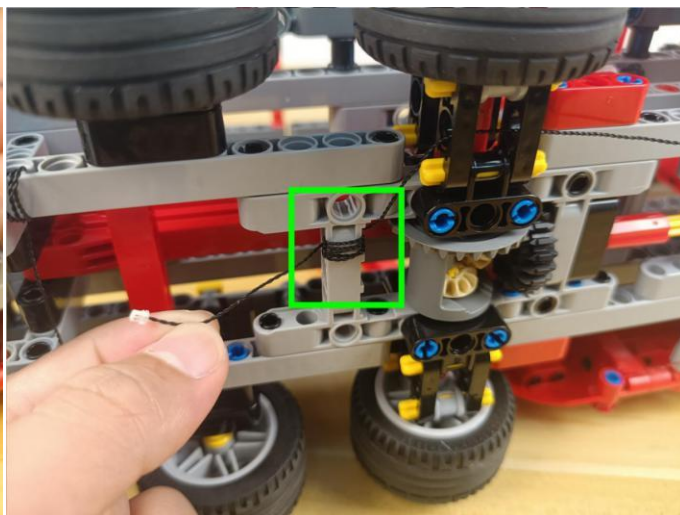
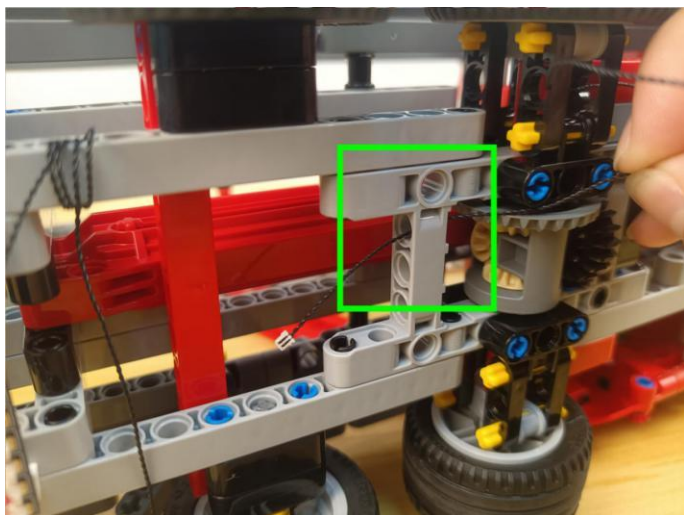
138. Pull the connecting cable from the expansion board to the left.



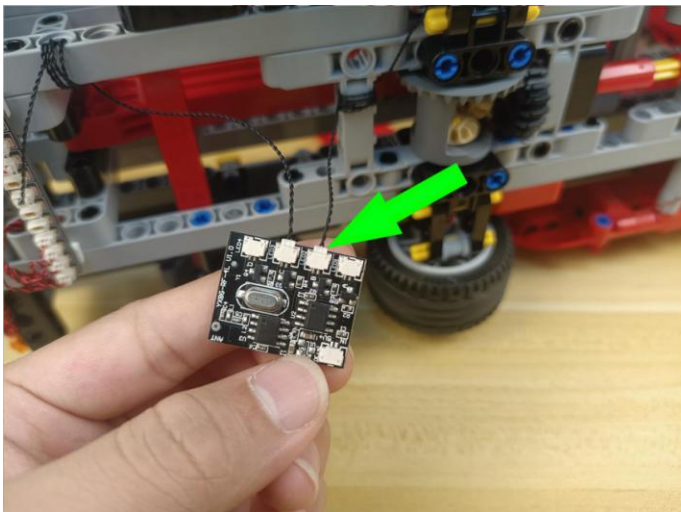
139. Thread the connecting cable through the following space.



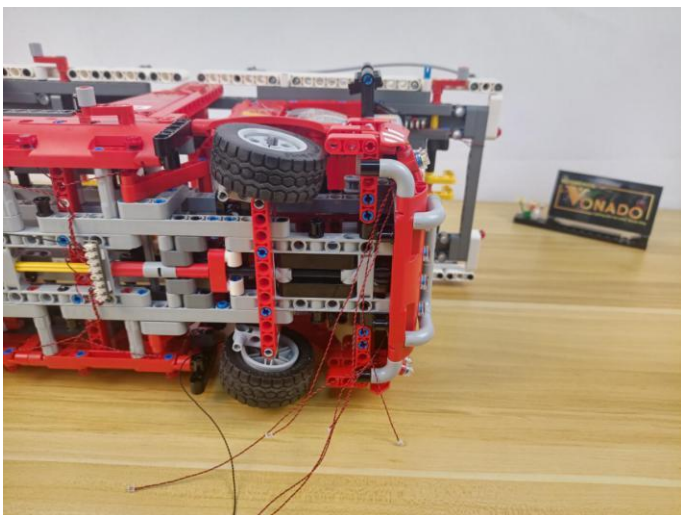
140. Continue to thread it through the following space and wind it round the piece.



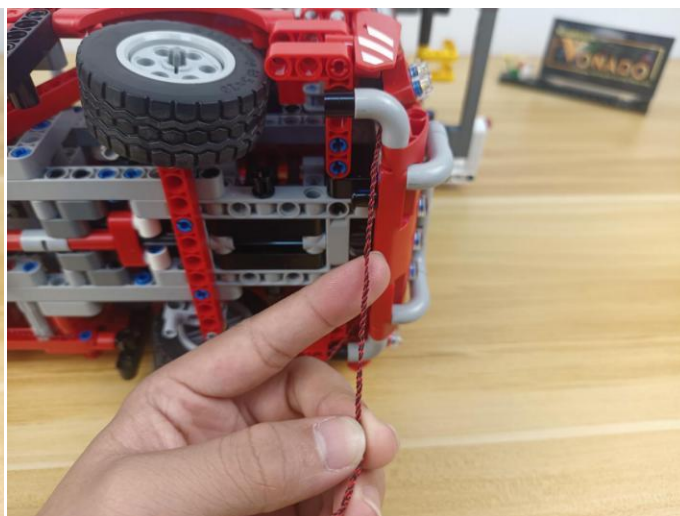
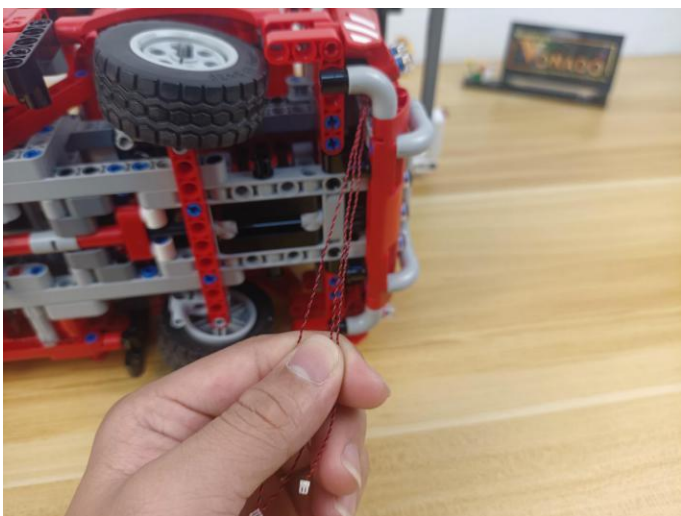
141. Connect the connecting cable to the B port.



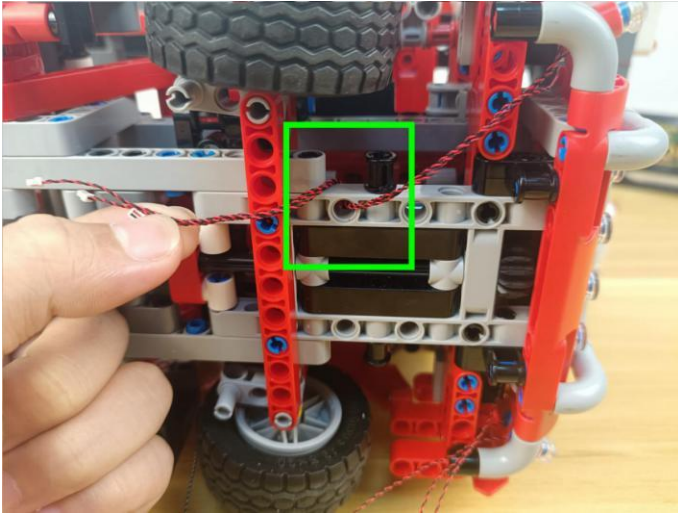
142. Turn to the head.



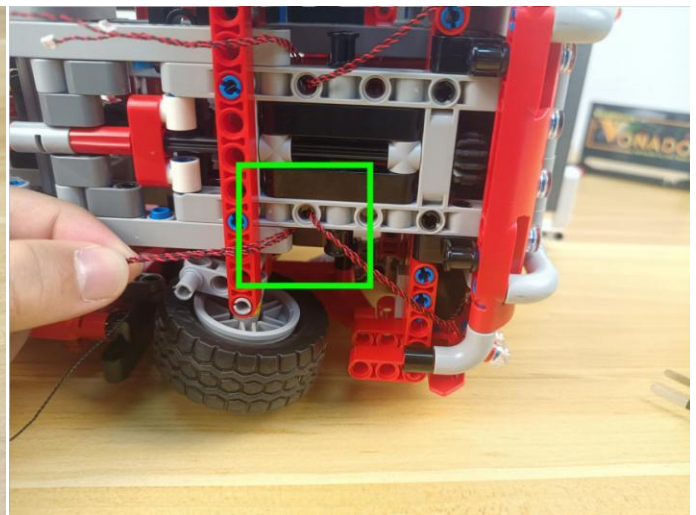
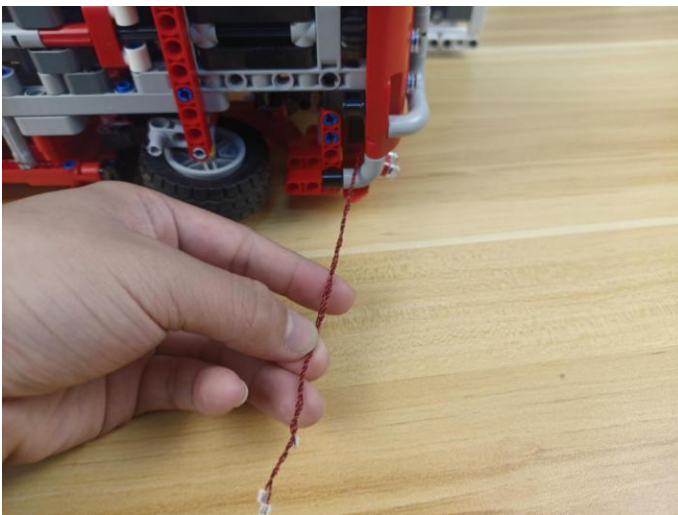
143. Group the 3 cables above together as per below.



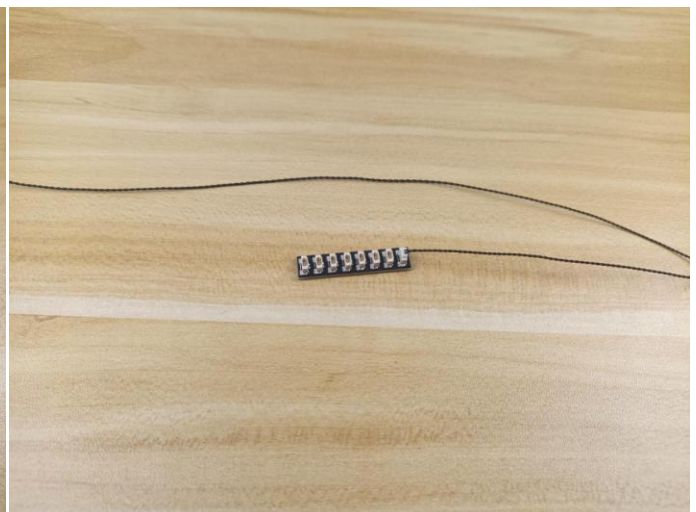
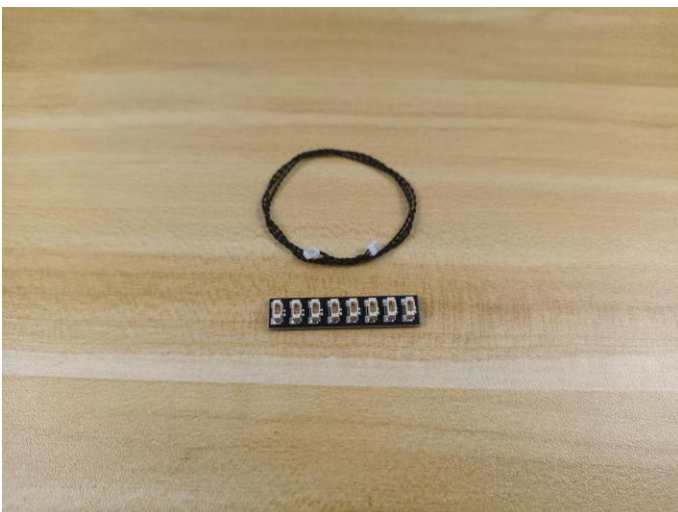
144.Wind them as per below.



145.Group the cables underneath together as well, and wind them around the piece.



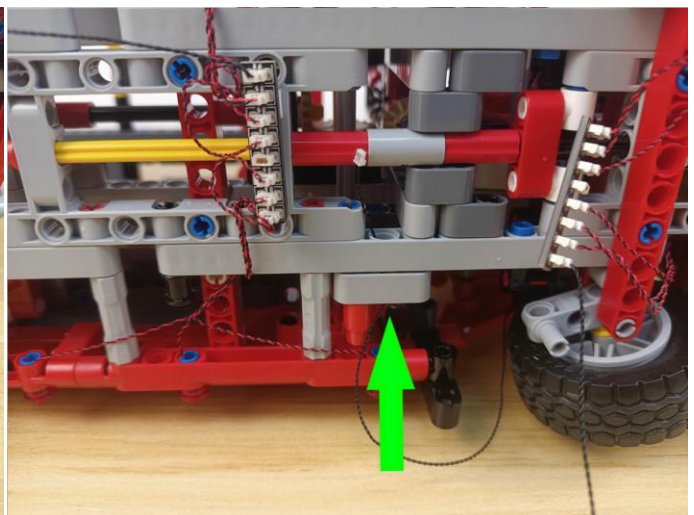
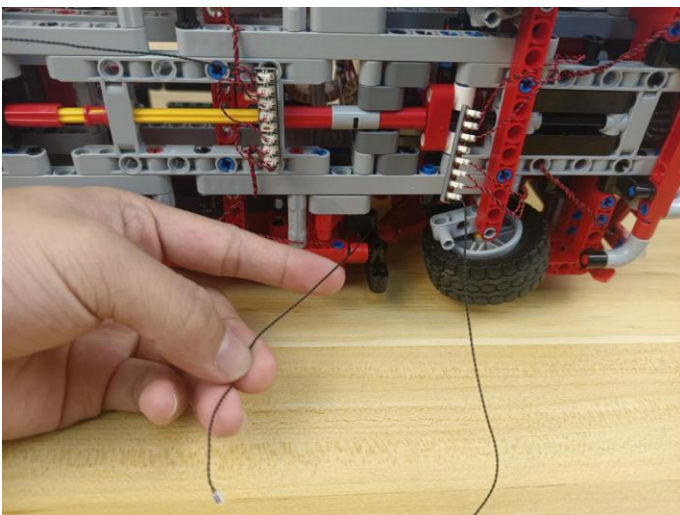
146.Take a 30cm connecting cable, an 8-port expansion board, assemble the as per below.



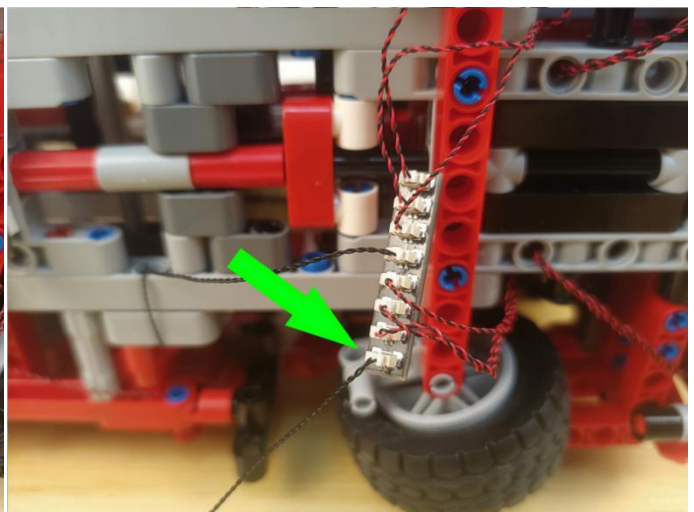
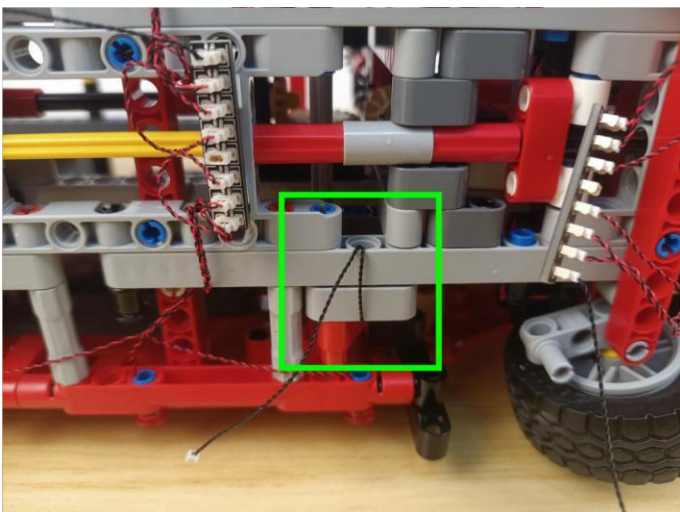
147. Connect the cables of the headlights to the expansion board.



148. Thread the connecting cable through the following hole.



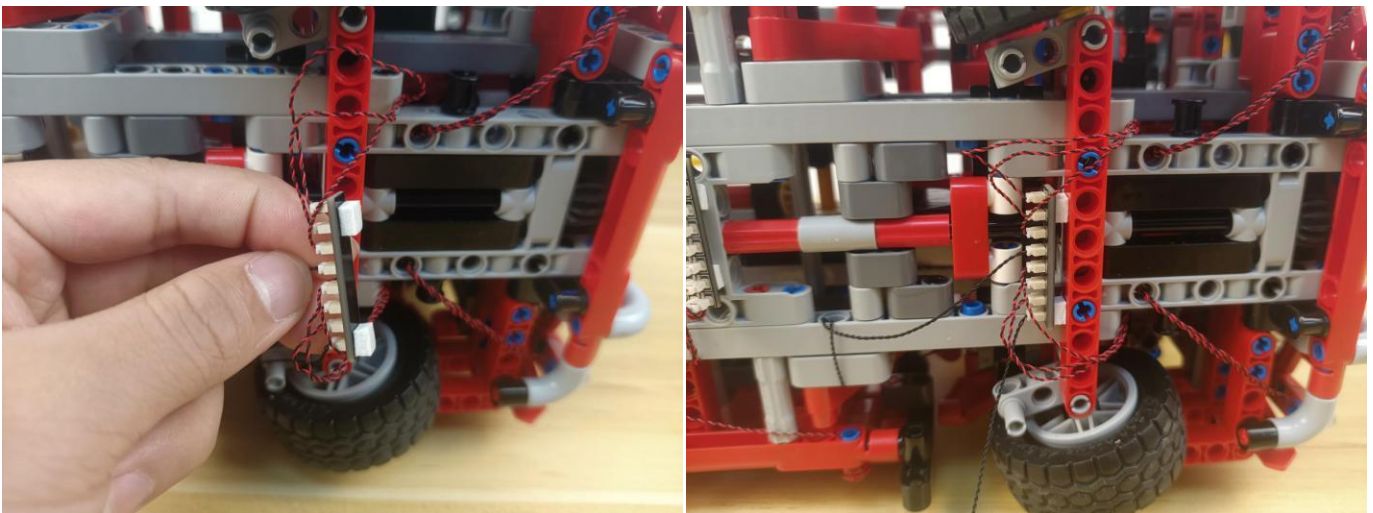
149. Wind it around the following piece before connecting it to the expansion board.



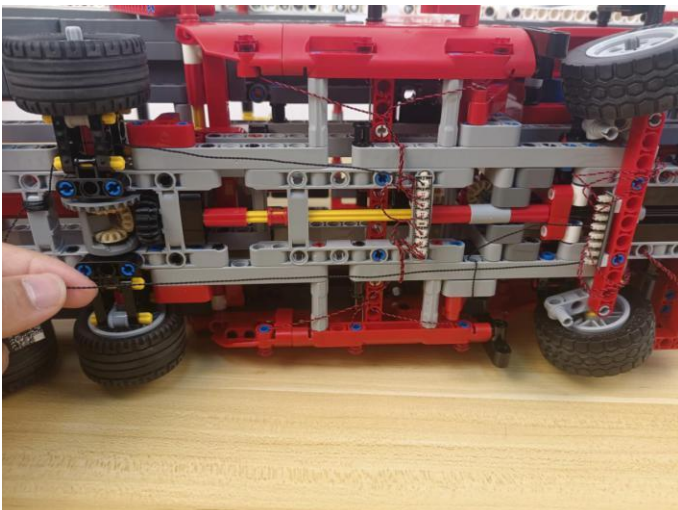
150.Take 2 adhesive squares.



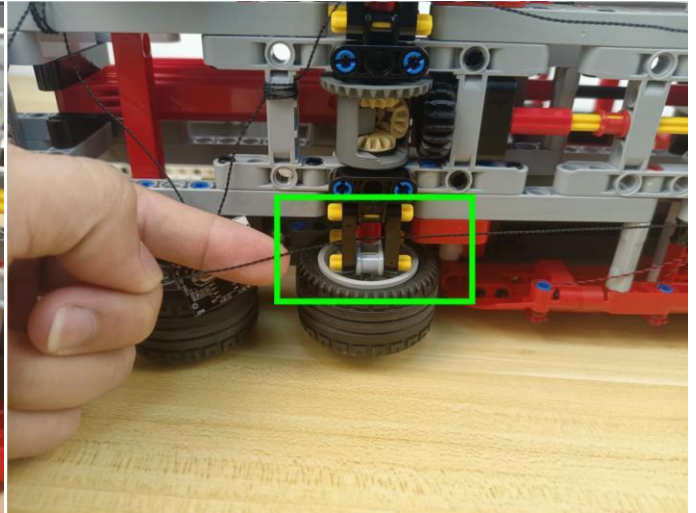
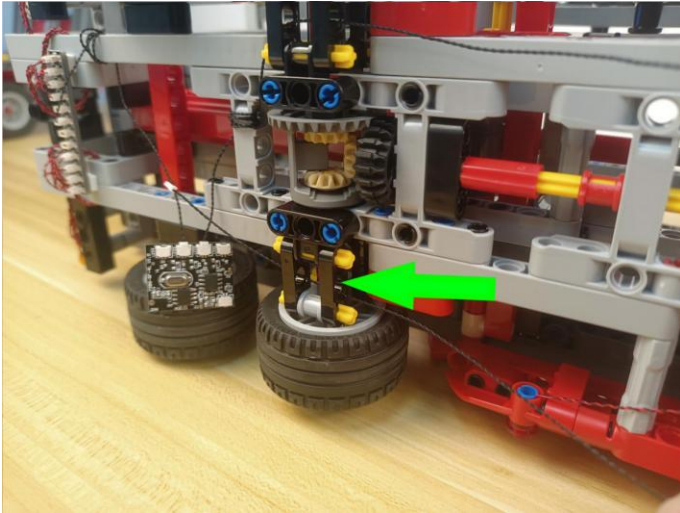
151.Stick them to the back of the expansion board, and stick the expansion board to the following place.



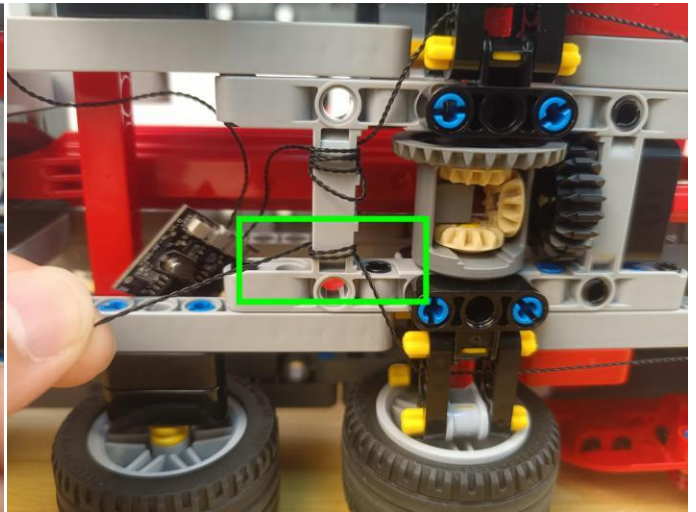
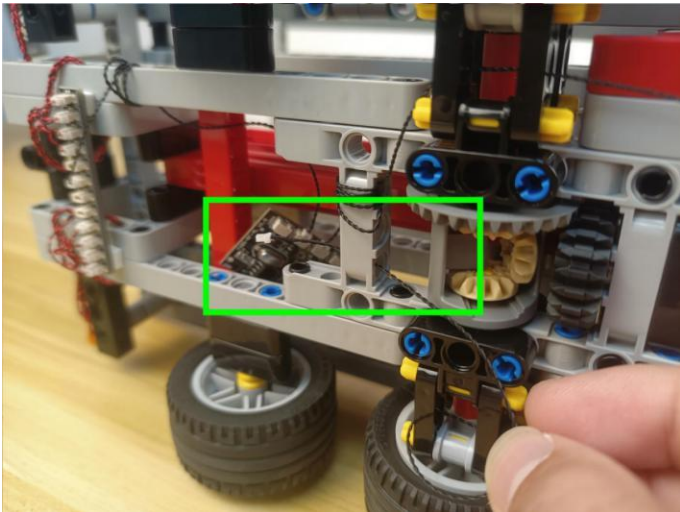
152.Pull the connecting cable from the expansion board to the left.



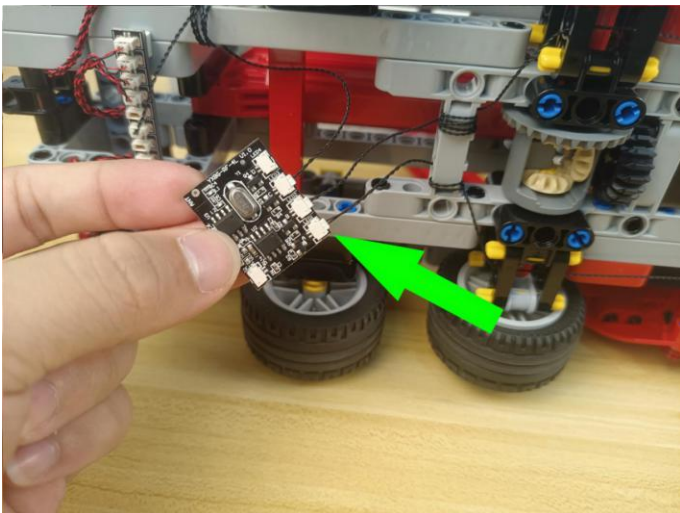
153. Thread the cable through the following space.



154. Continue to thread it through the following hole and wind it around the piece.



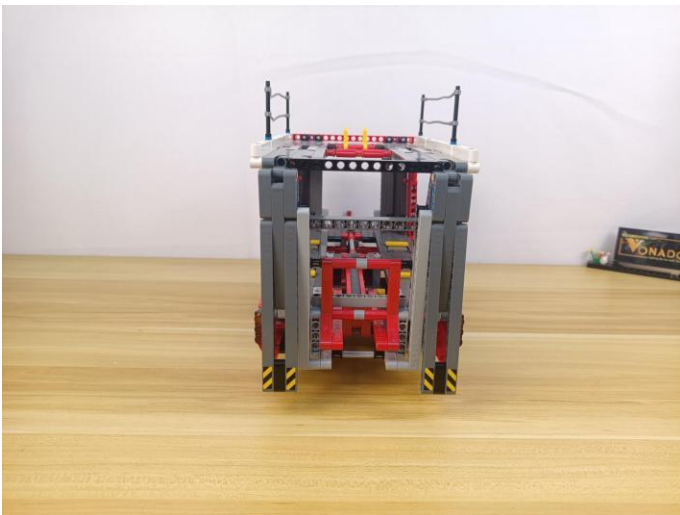
155. Connect the connecting cable to the A port.



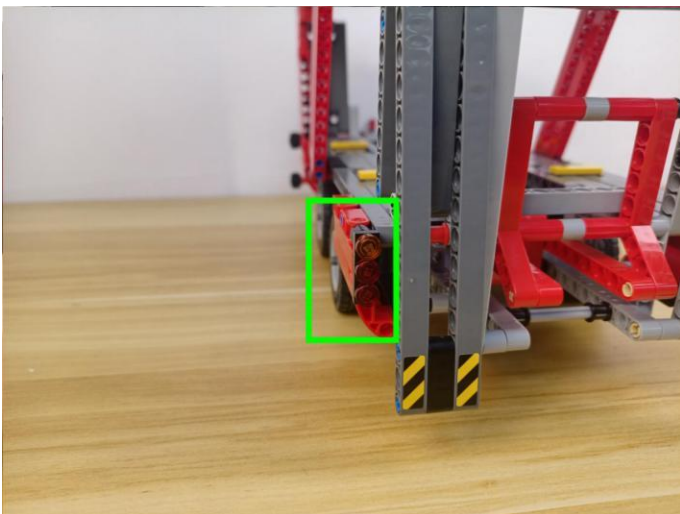
156. Move onto installing lights for the C part.



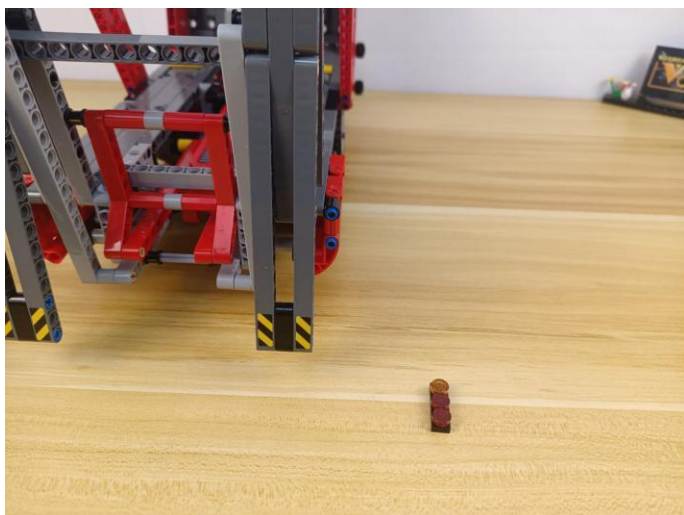
157. Turn to the tail.



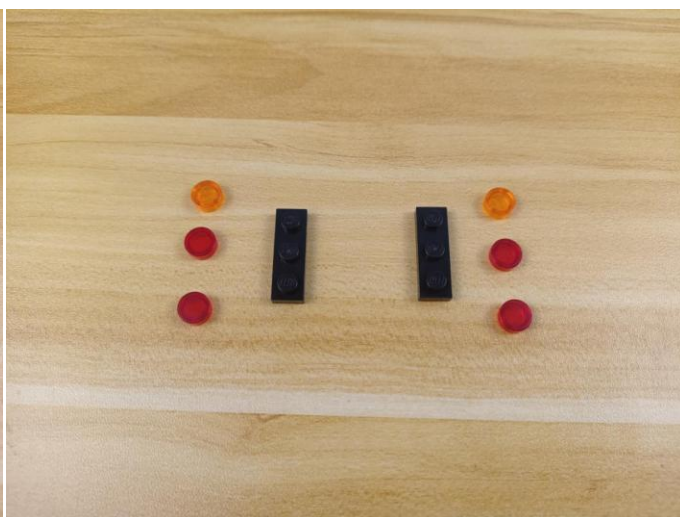
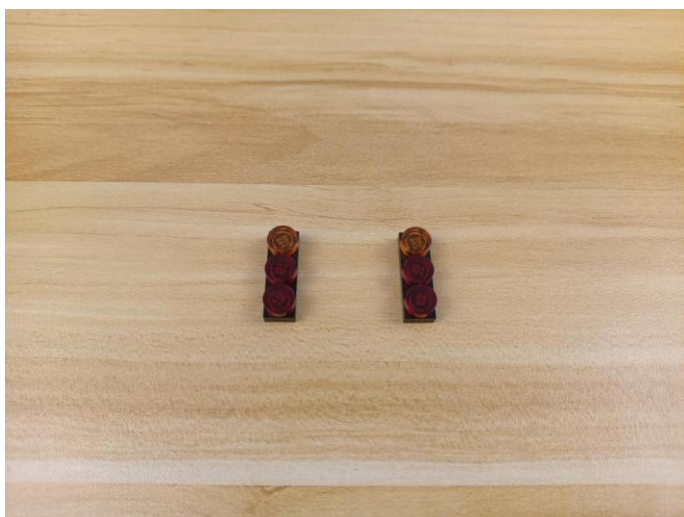
158. Remove the taillight at the left.



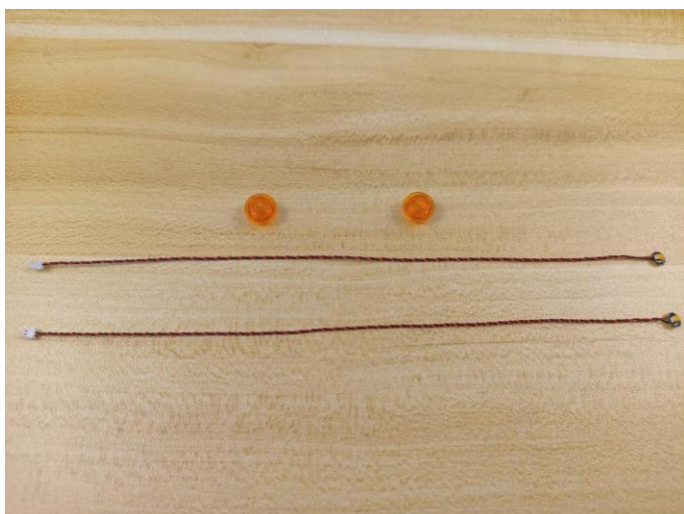
159.Remove the one at the right as well.



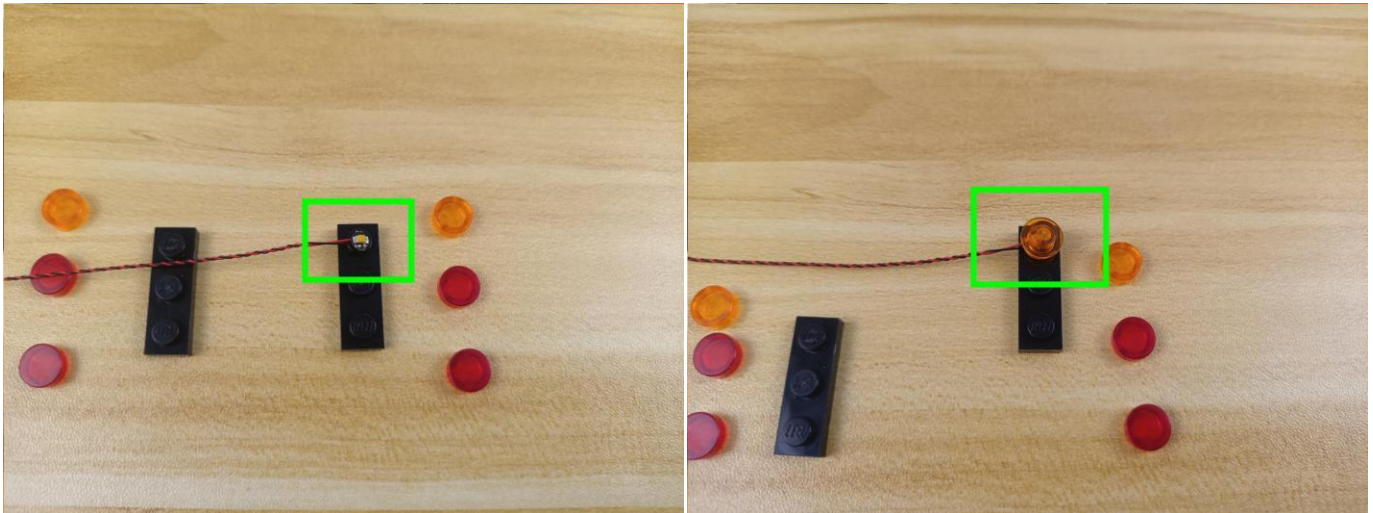
160.Disconnect the trans pieces.



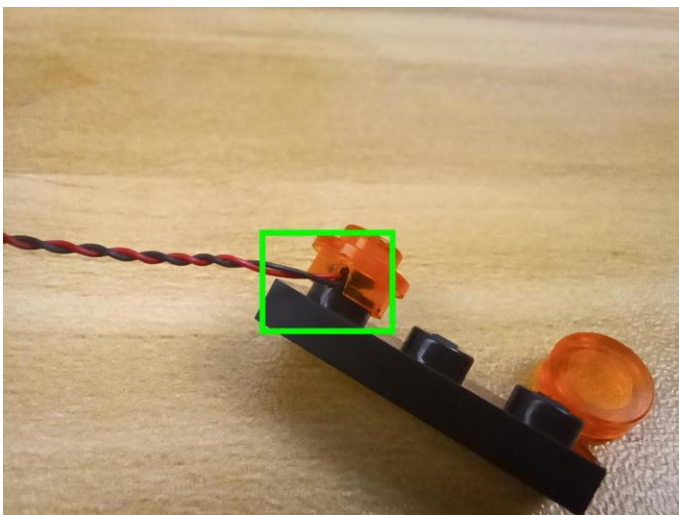
161.Take 2 warm white 15cm bit lights, 2 trans orange 1x1 round plates (with opening).



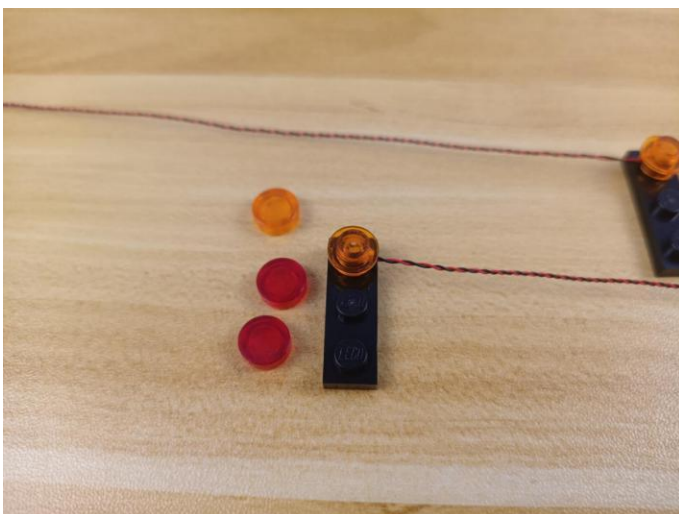
162.Place the light as per below, connect the round plate over.s



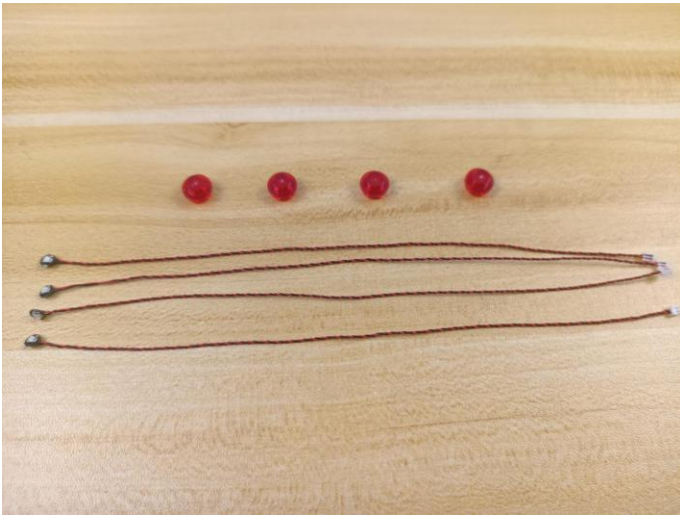
163.Stuck the cable at the opening.



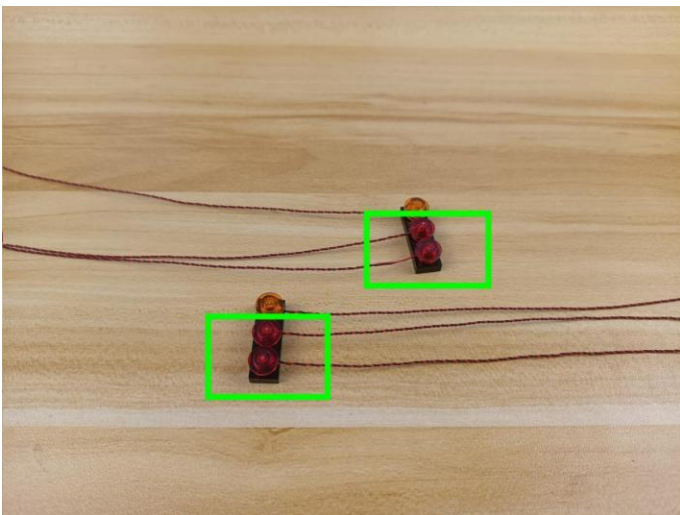
164.Install the other light in the same way.



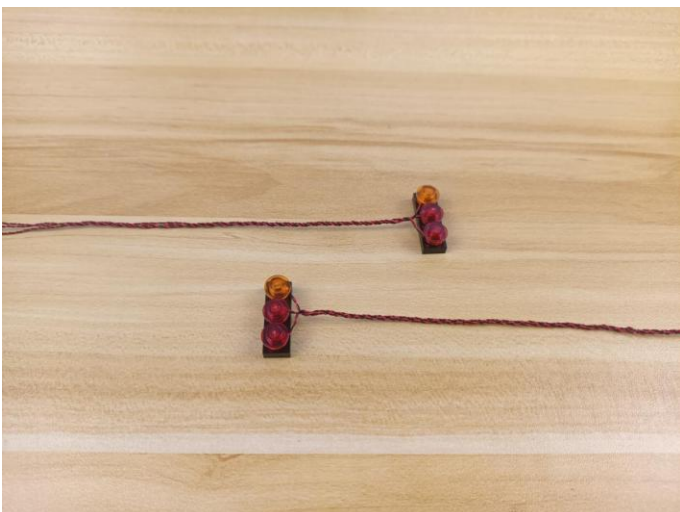
165.Take 4 red 15cm bit lights, 4 trans red 1x1 round plates (with opening).



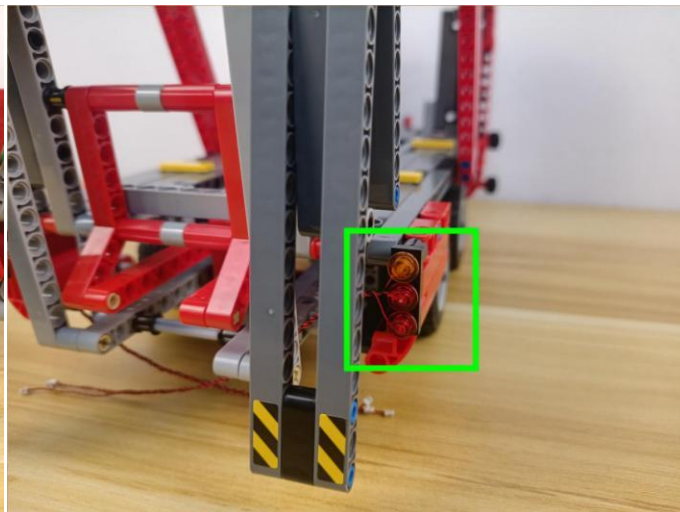
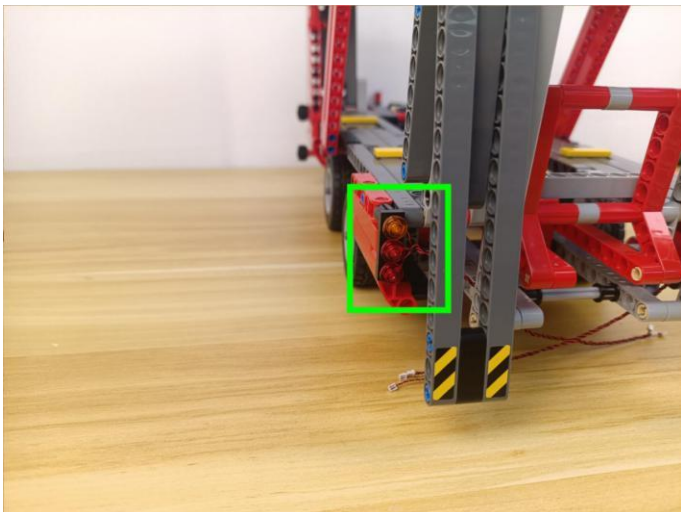
166.Install them to the following places as we did before.



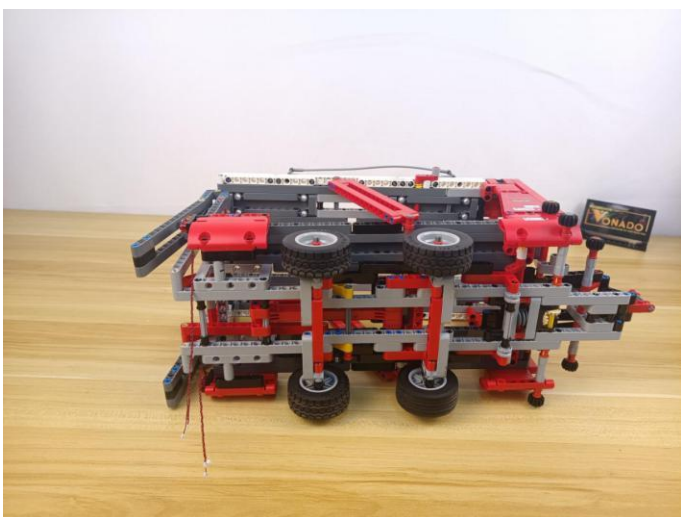
167.Group the cables together respectively.



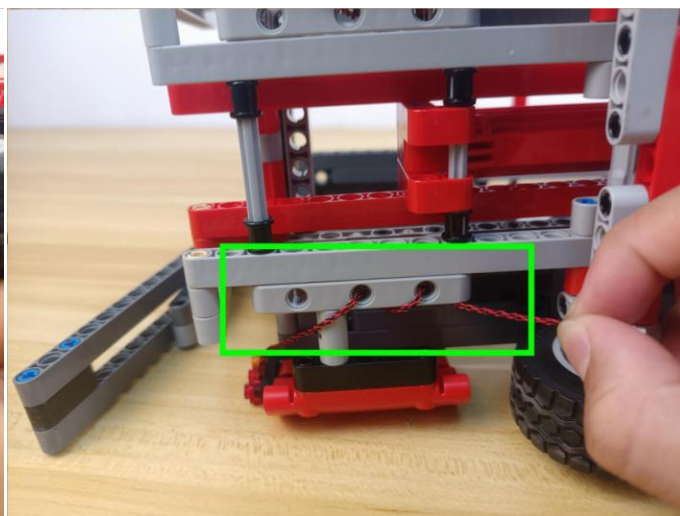
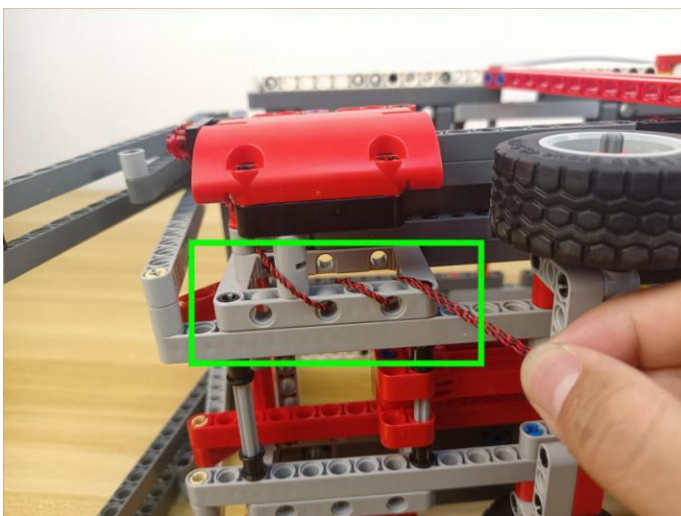
168. Reconnect the taillights.



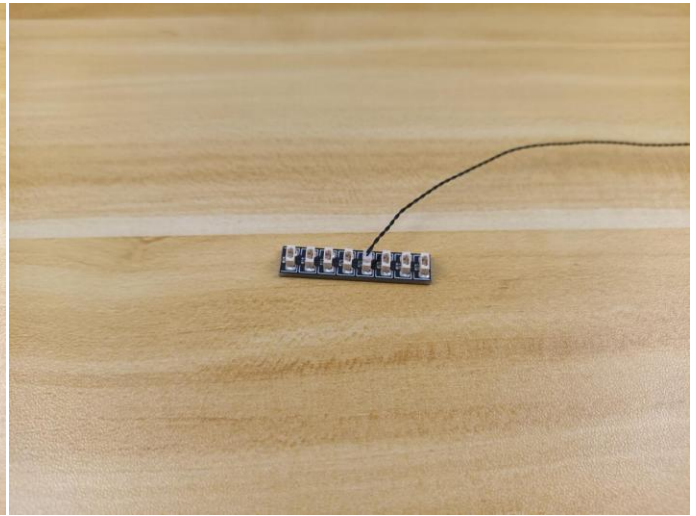
169. Turn it over.



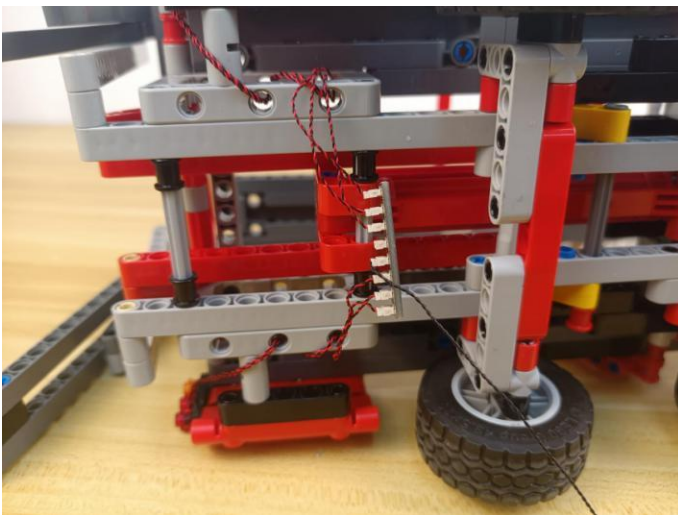
170. Wind the cables of the taillights as per below.



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



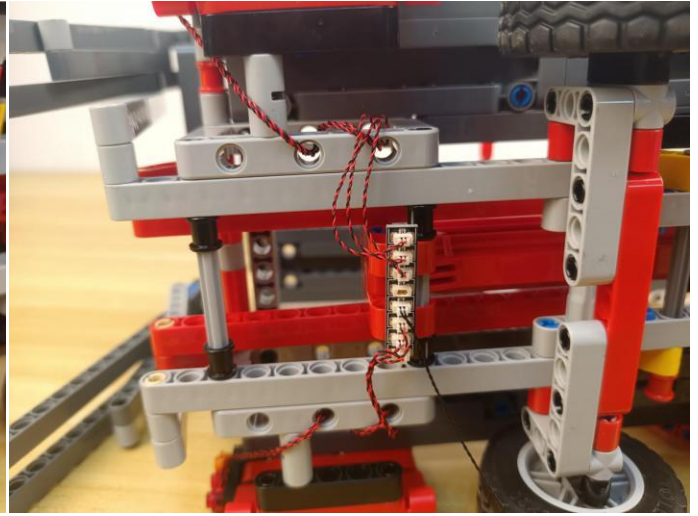
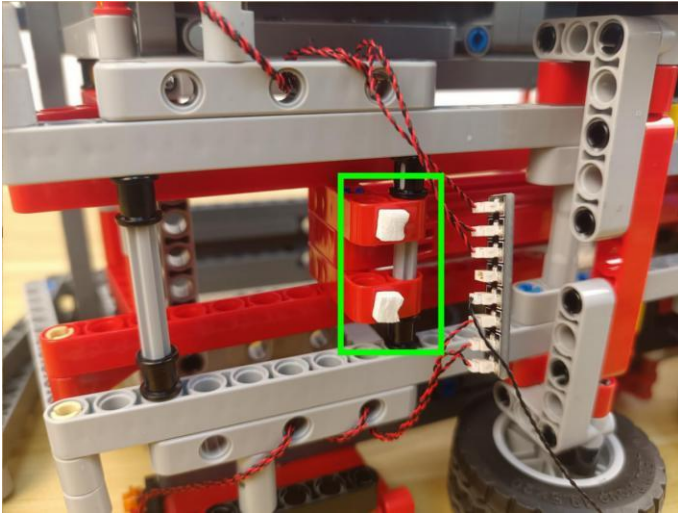
172.Connect all the taillights cables to the expansion board.



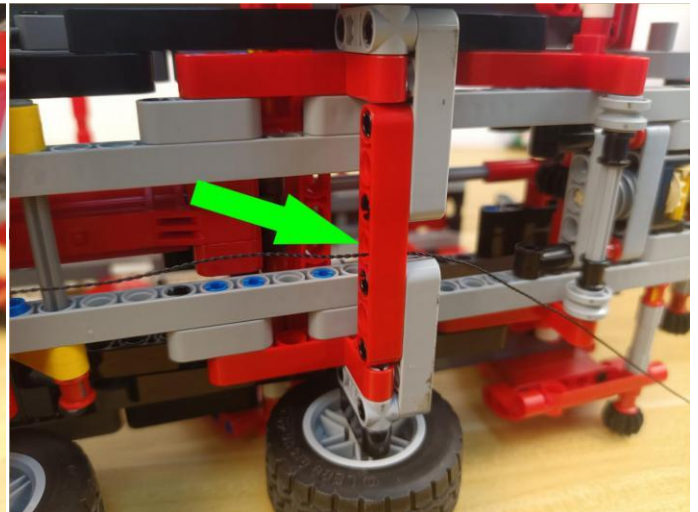
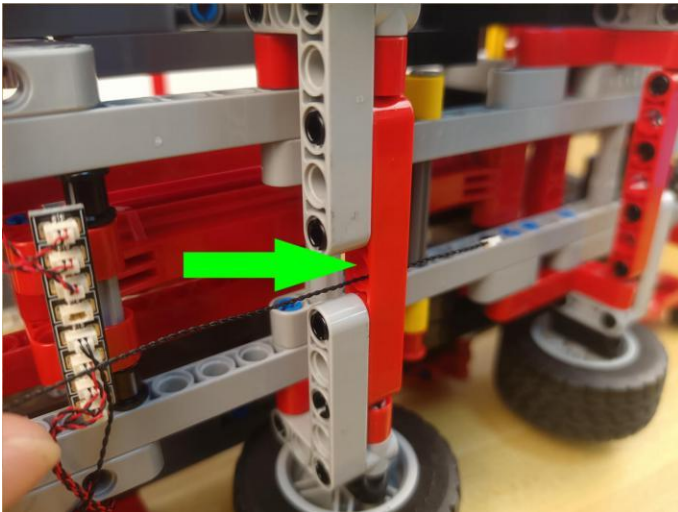
173.Take 2 adhesive squares.



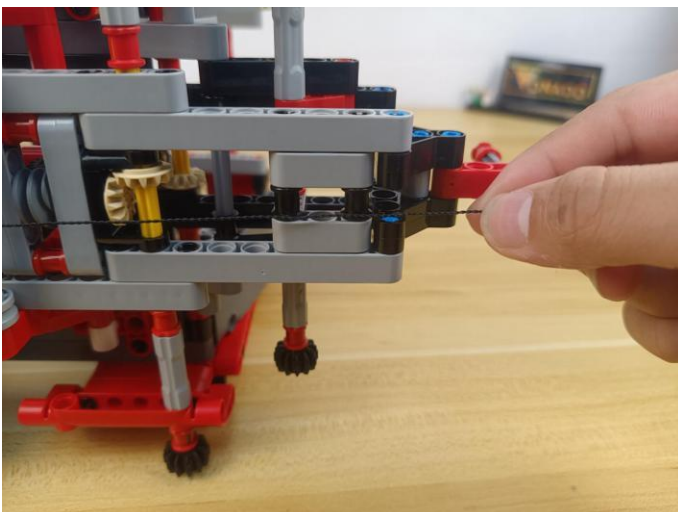
174.Stick them to the following place, and stick the expansion board to them.



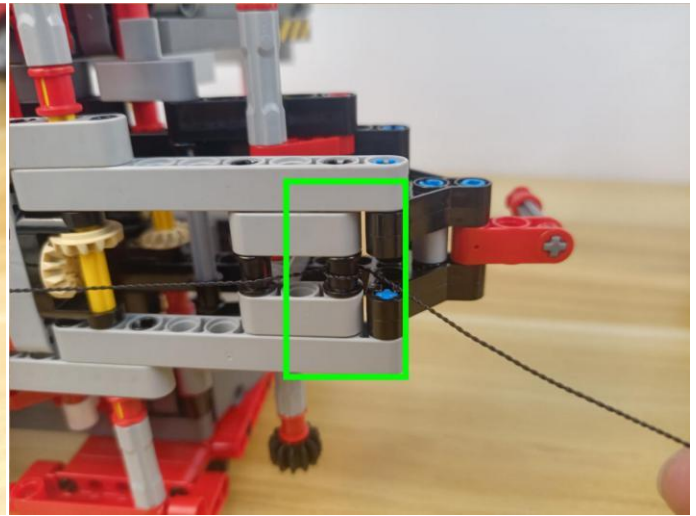
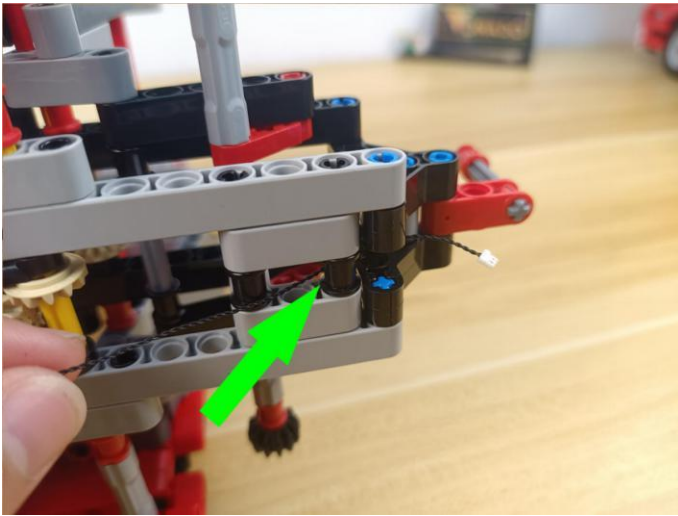
175.Thread the connecting cable through the following 2 holes.



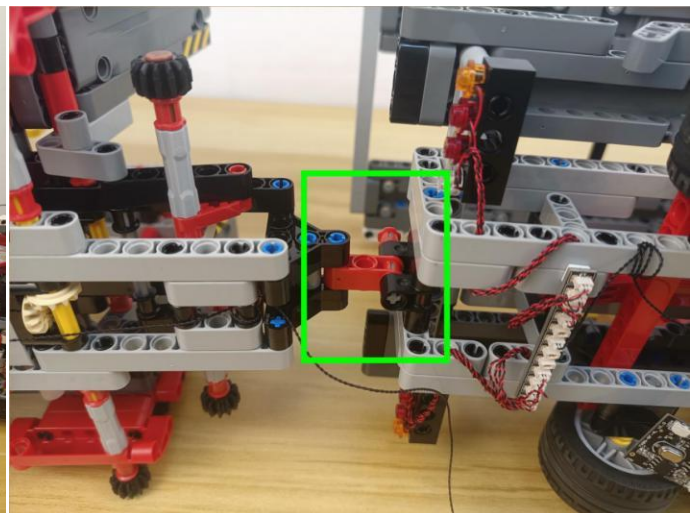
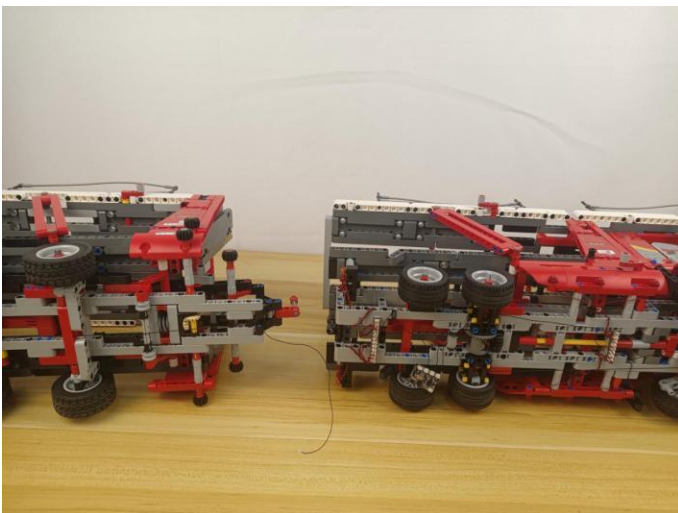
176.Pull it to the front.



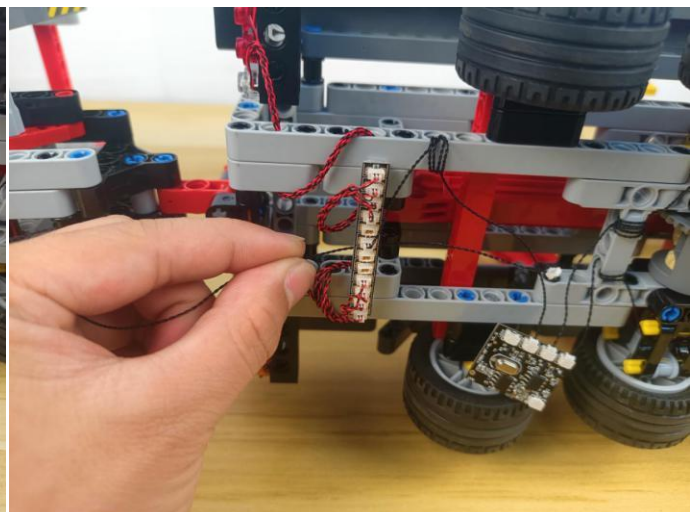
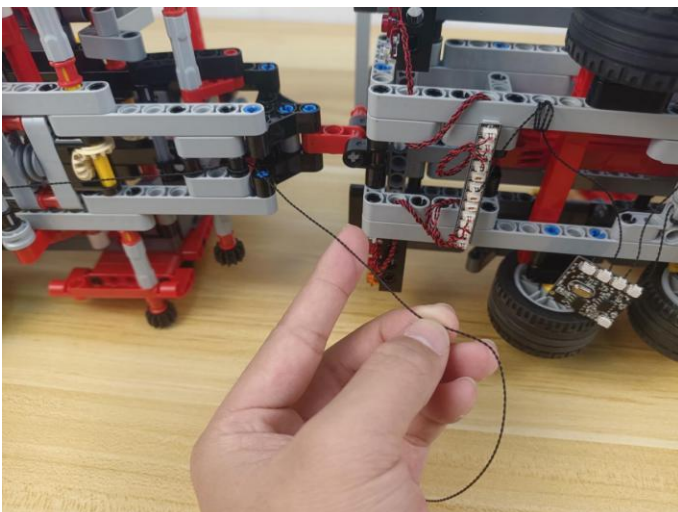
177. Thread it through the following space and wind it around the piece.



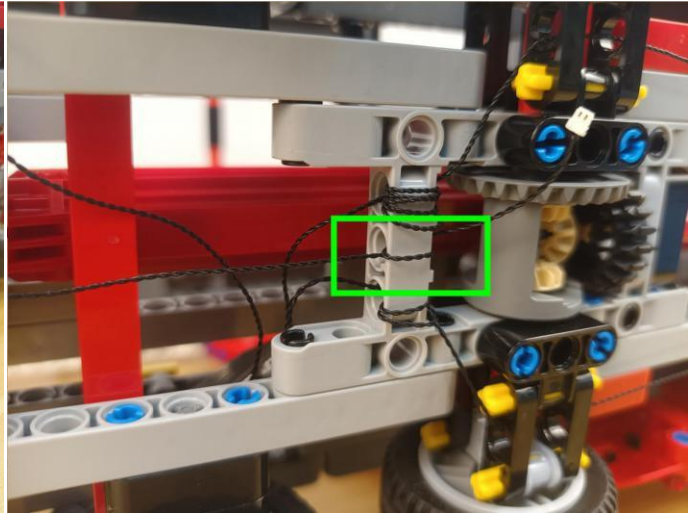
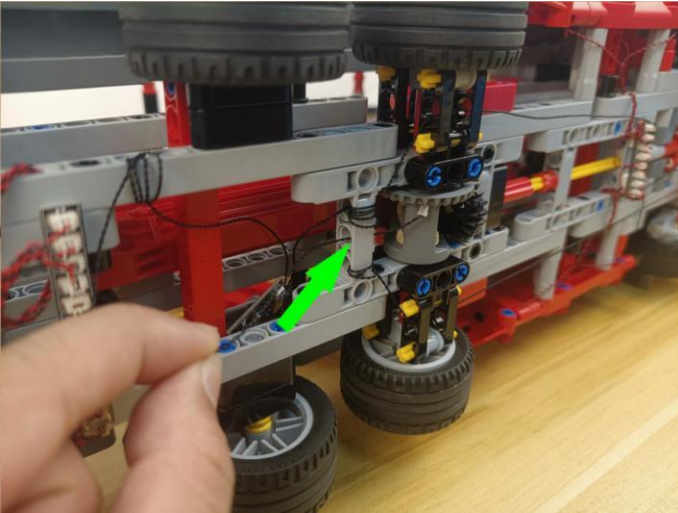
178. Connect the B part and the C part together.



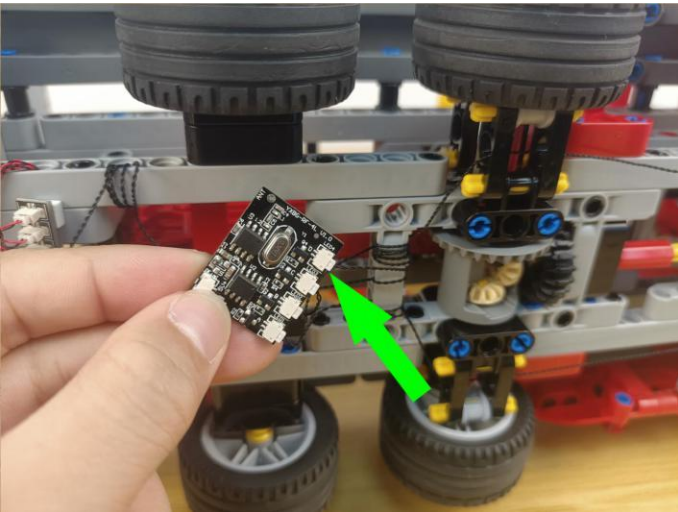
179. Pull the connecting cable from the C part to the B part.



180.Wind it around the following place.



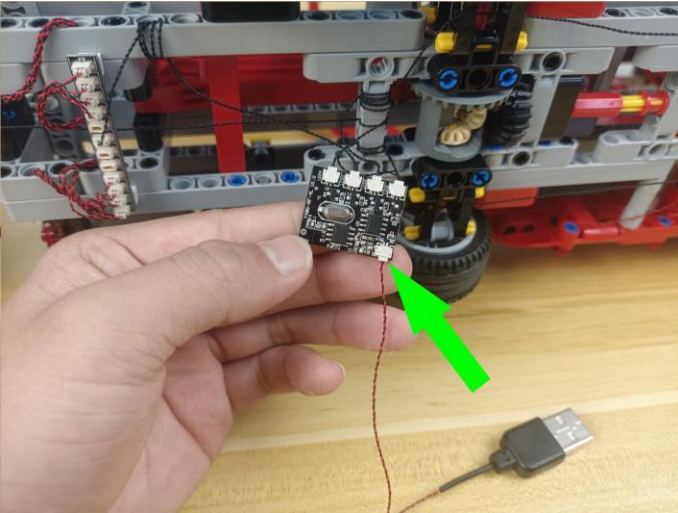
181.And connect it to the D port on the Remote Control Switch Board.c



182.Take a USB power cable.



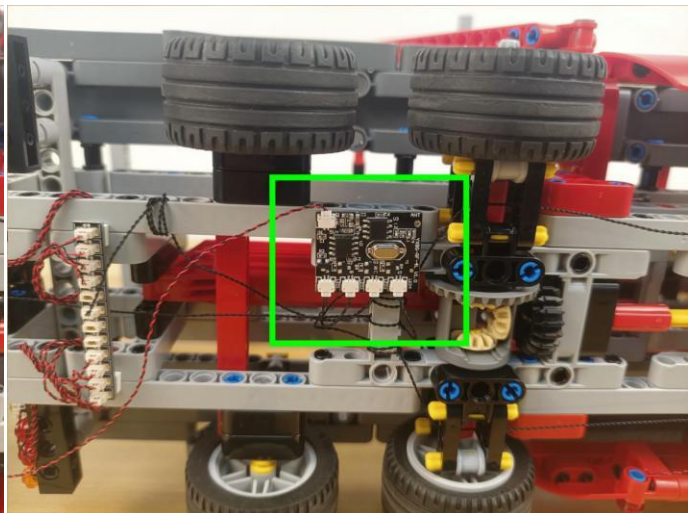
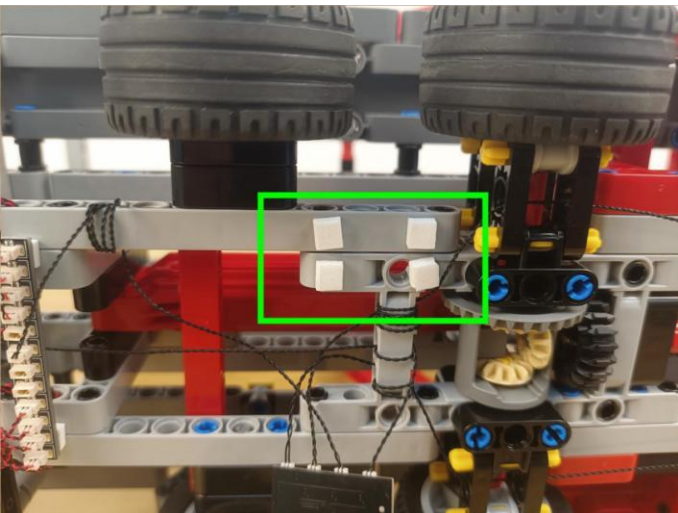
183.Connect it to the input port.



184.Take 4 adhesive squares.



185.Stick them to the following places, and stick the Remote Control Switch Board to them.



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

