

Bugatti_Chiron_42083 Advanced Version LED Lighting Kit

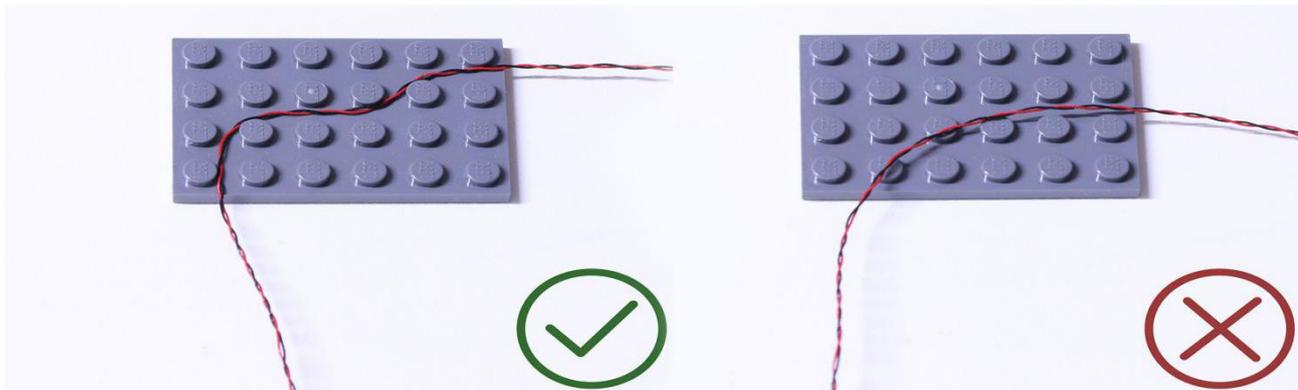
Package contents:

- 8x Cool White 30cm Dot Lights
- 7x Red 30cm Dot Lights
- 1x Red Light Bar 20cm
- 1x Cool White Light Bar 12.5cm
- 2x 12-Port Expansion Boards
- 1x 30cm Connecting Cable
- 1x AA Battery Pack (requires 3x AA Batteries)
- LEGO Pieces:
 - 5x Lego Technic Pin with Friction Ridges Lengthwise with Center Slots (Black)

Note:

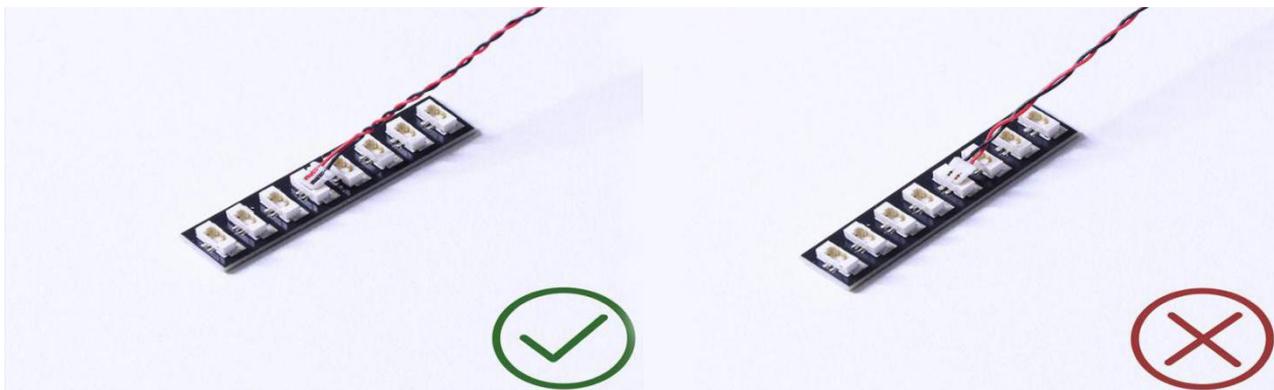
Place wires on the surface or under the LEGO building blocks.

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

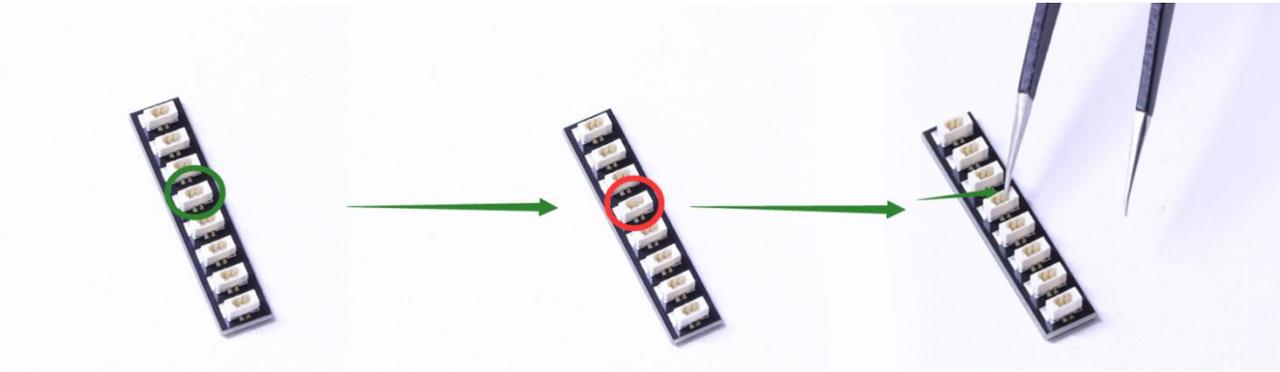


Insert the connectors to the ports.

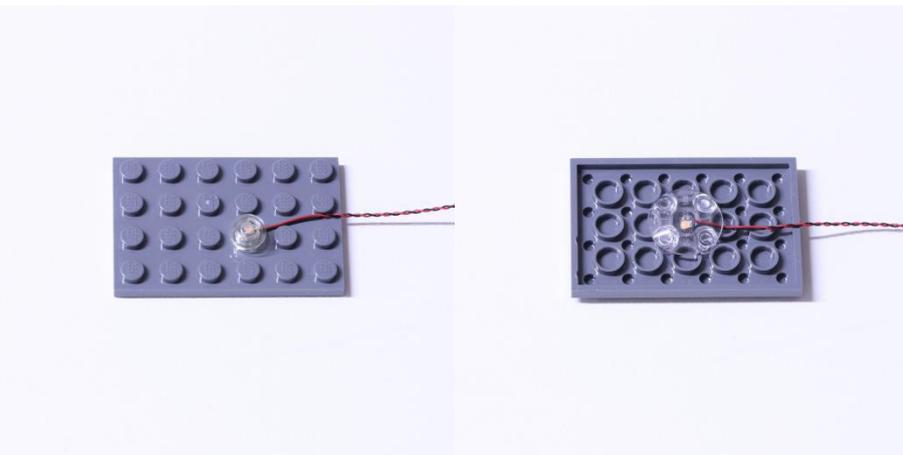
Be careful when you are operating, there's only one correct way to insert, make sure the expansion board is upward, find the soldered "=" sign on the left of the port. When you are inserting, the side which the wires can be seen should be faced to the "=" sign and if you feel hard to insert, please stop,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



At this point, use the tweezers to straighten the bentpins.

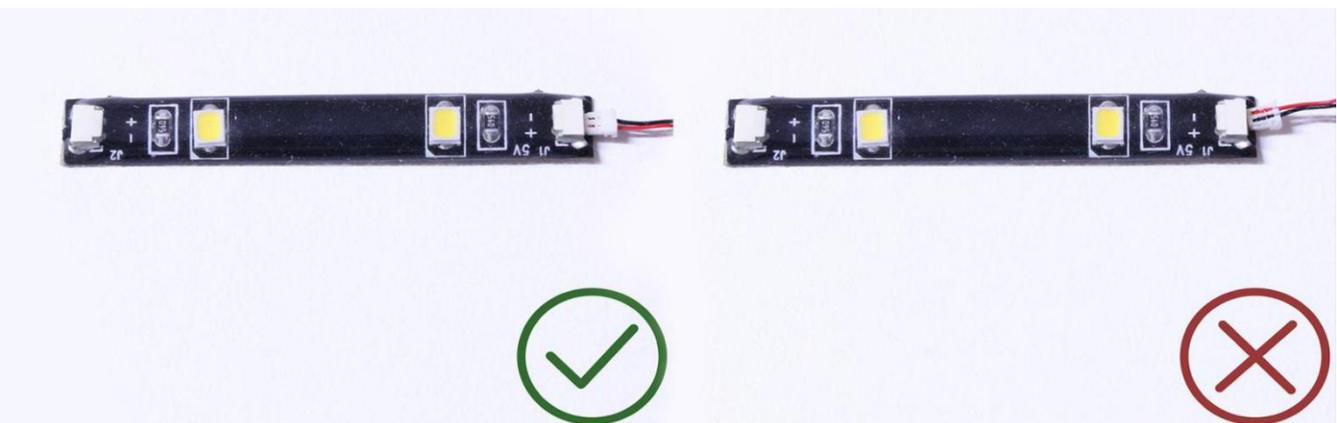


When installing dot lights, make sure they are correctly placed (Yellow LED package is exposed). You can put them either on the top of the studs or between studs.

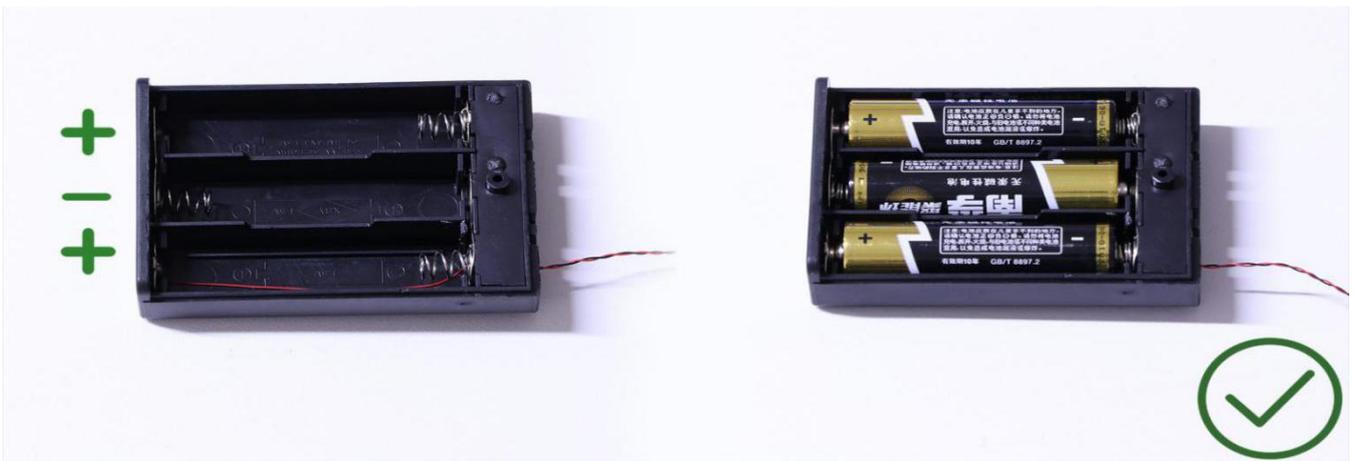


Connecting cable connectors to Strip Lights

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.



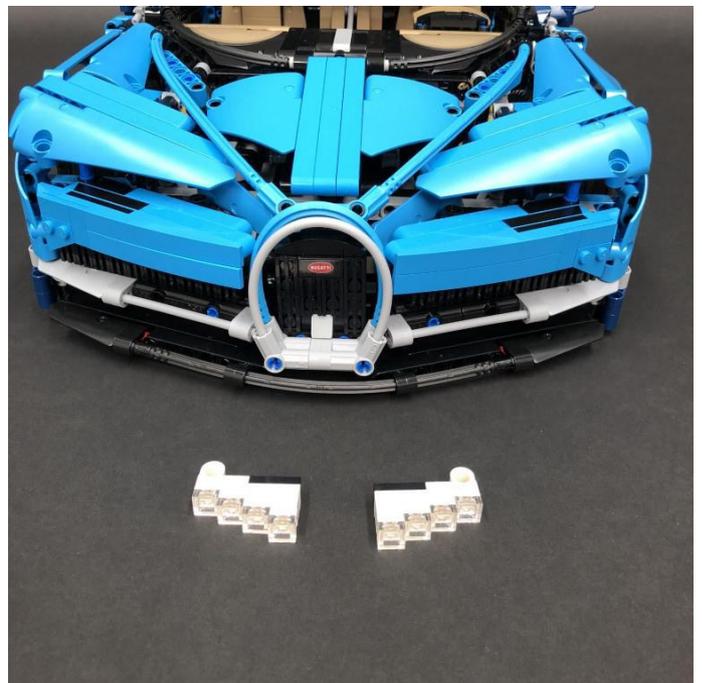
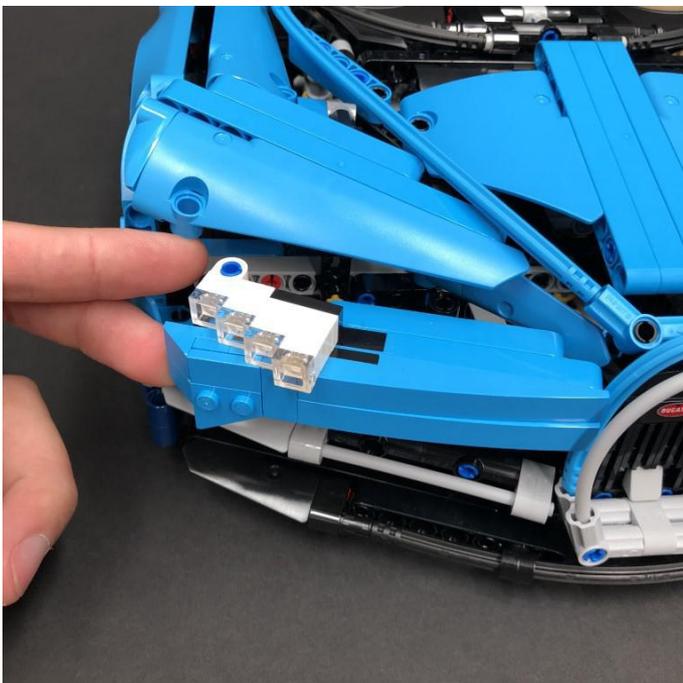
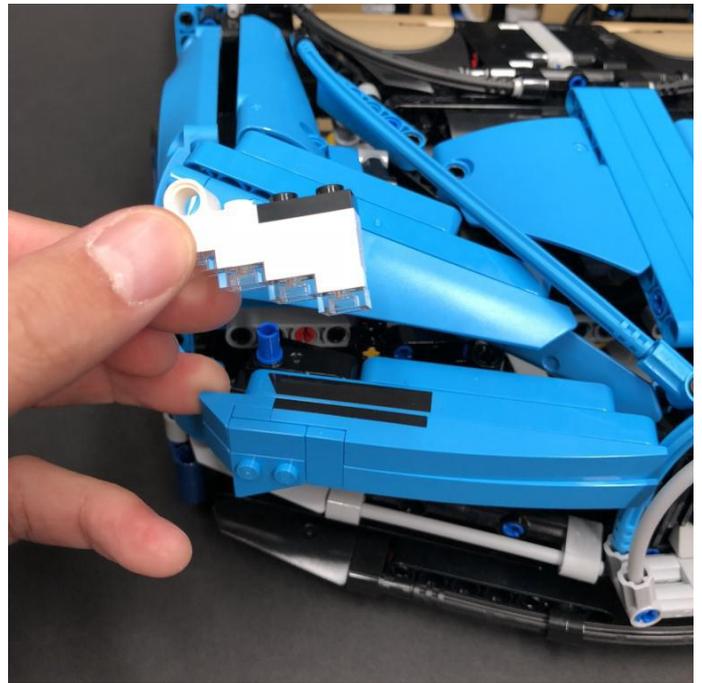
Finally, please pay attention to the positive and negative terminals of the battery when installing the battery case.



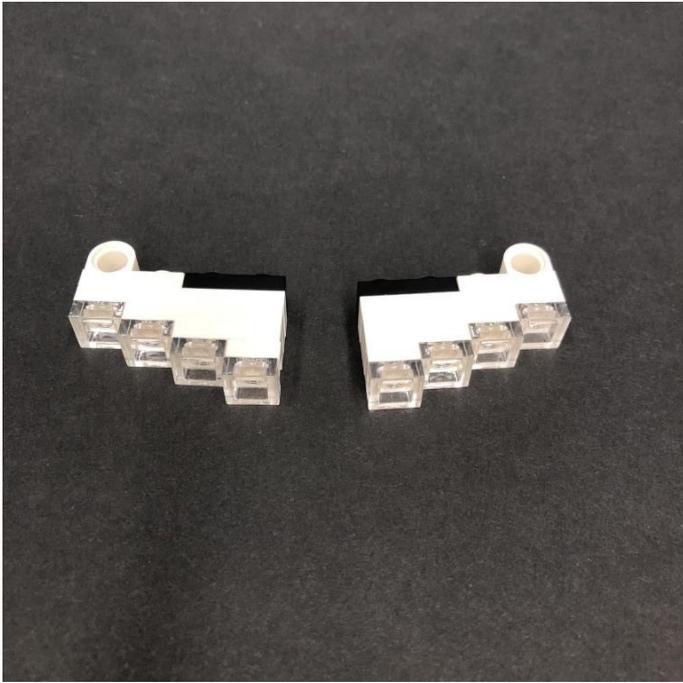
OK, Let's Begin!

Instructions for installing this kit

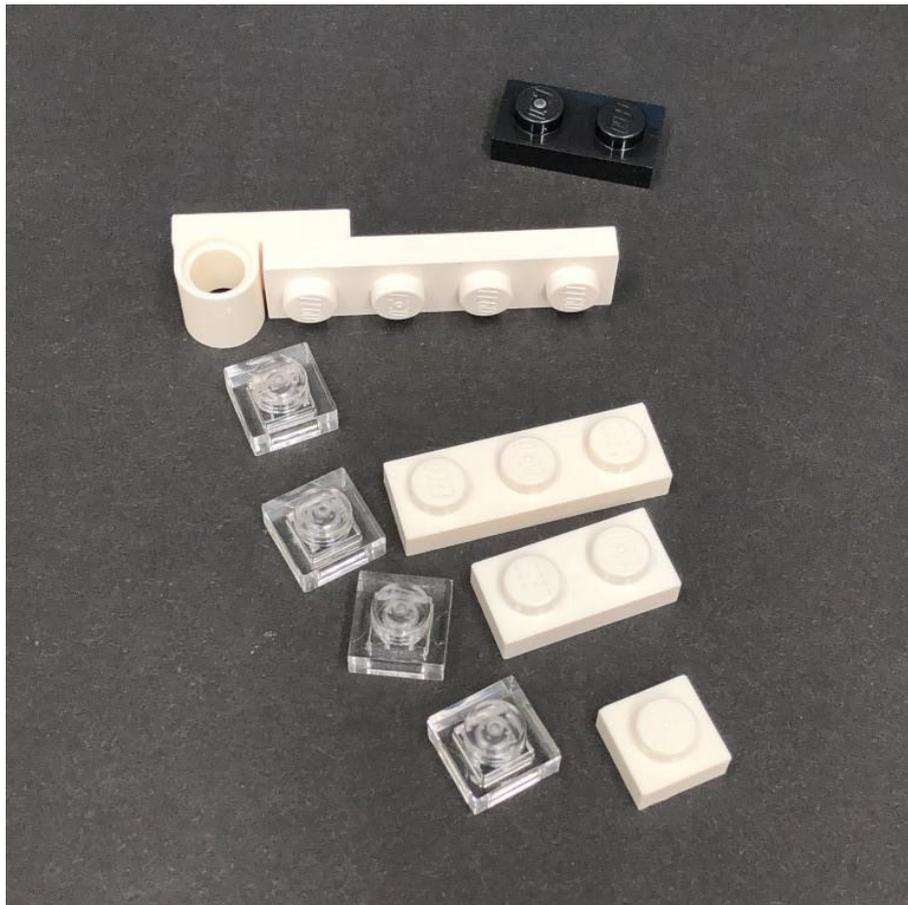
- 1.) We will start by installing lights to the headlights. First disconnect the headlight sections from each side.



2.) Disassemble pieces from the left headlight as per below

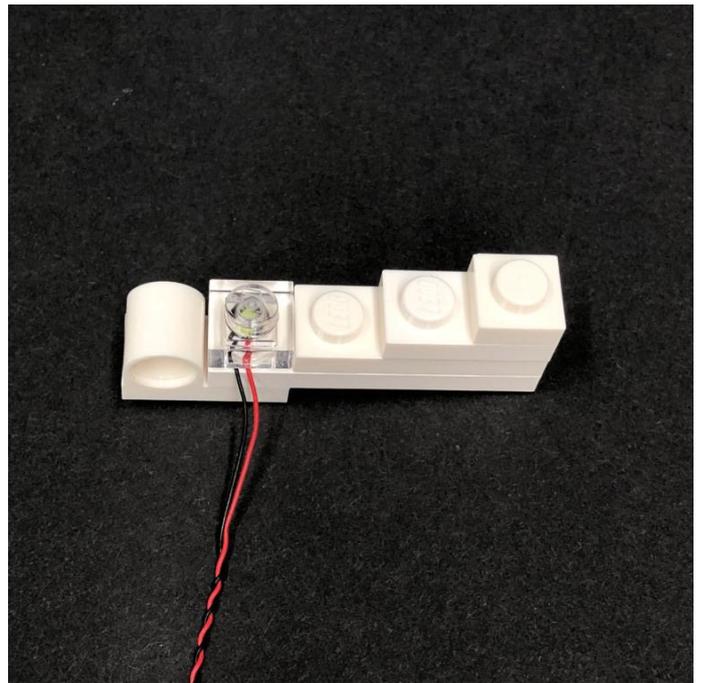
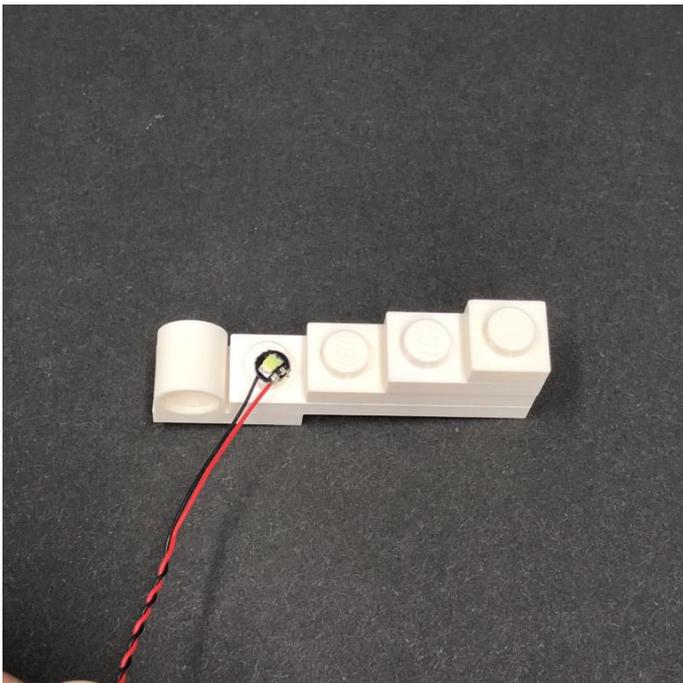


Follow the below images to rebuild the white pieces that make up the left head light section. We need to flip the studs over so that the trans clear plates are reversed to allow us to install our Dot Lights underneath each one.

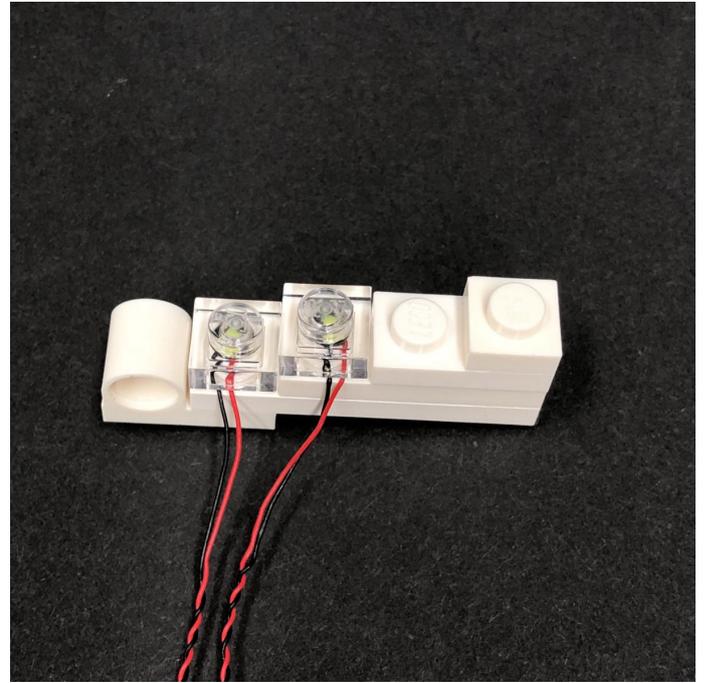
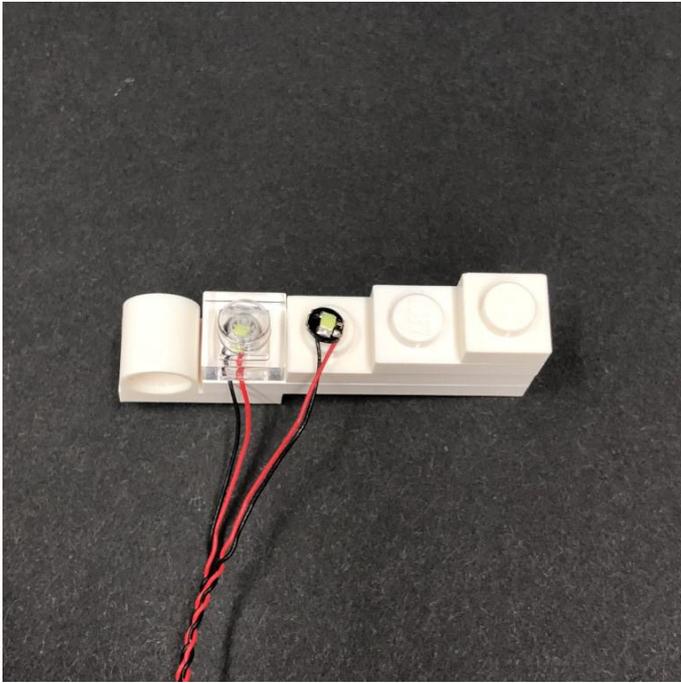




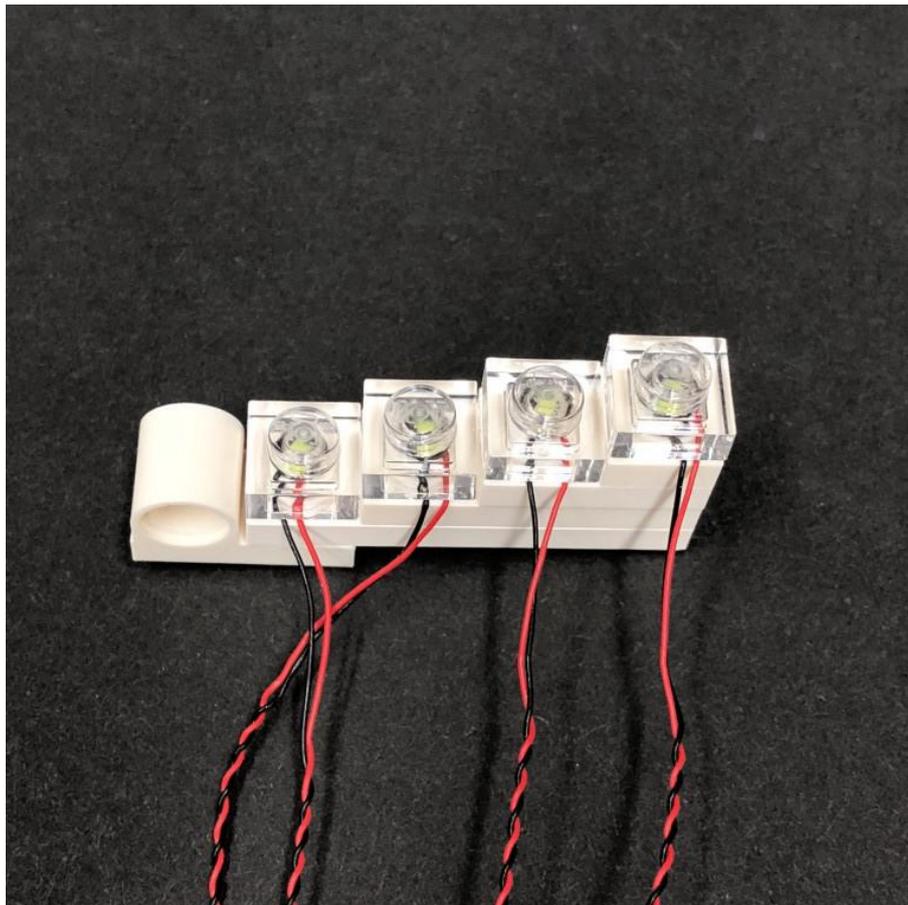
3.) Take a Cool White 30cm Dot Light and with the cable facing down, place it over the far left stud as per below. Secure the Dot Light in place by reconnecting one of the trans clear plates over the top.



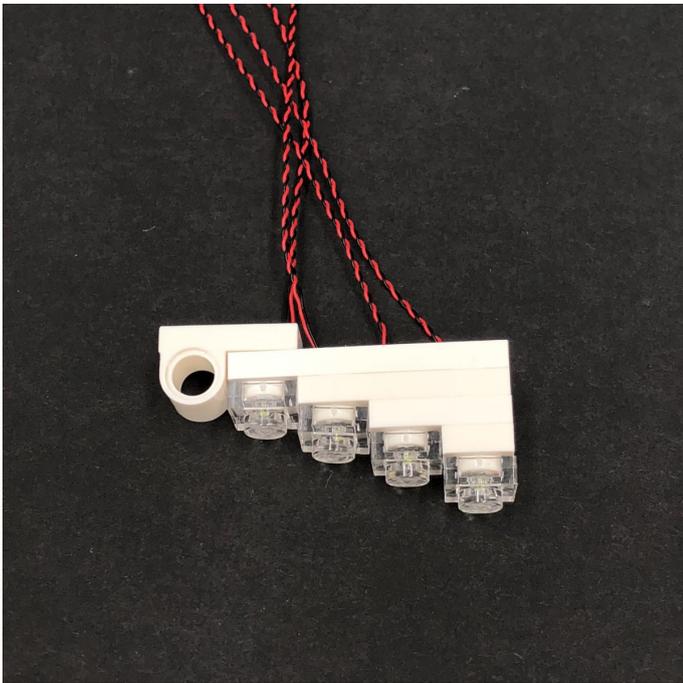
Take another Cool White 30cm Dot Light and place it over the next stud along. Secure the light in place by reconnecting another trans clear plate over the top.



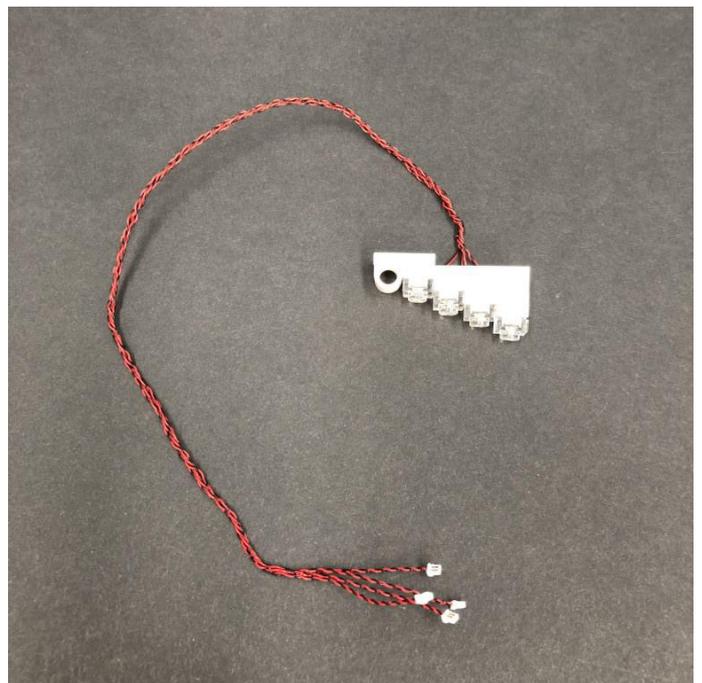
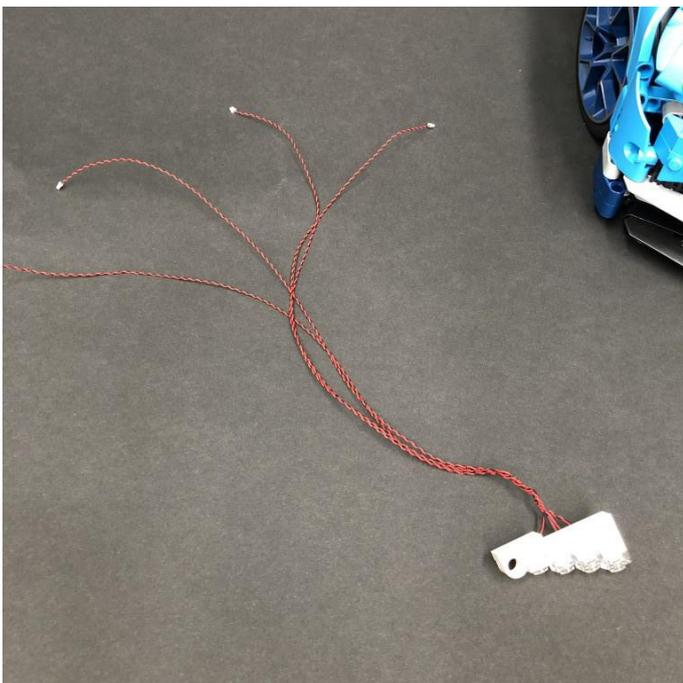
Follow the same process to install another 2x Cool White 30cm Dot Lights to the rest of the left headlight.



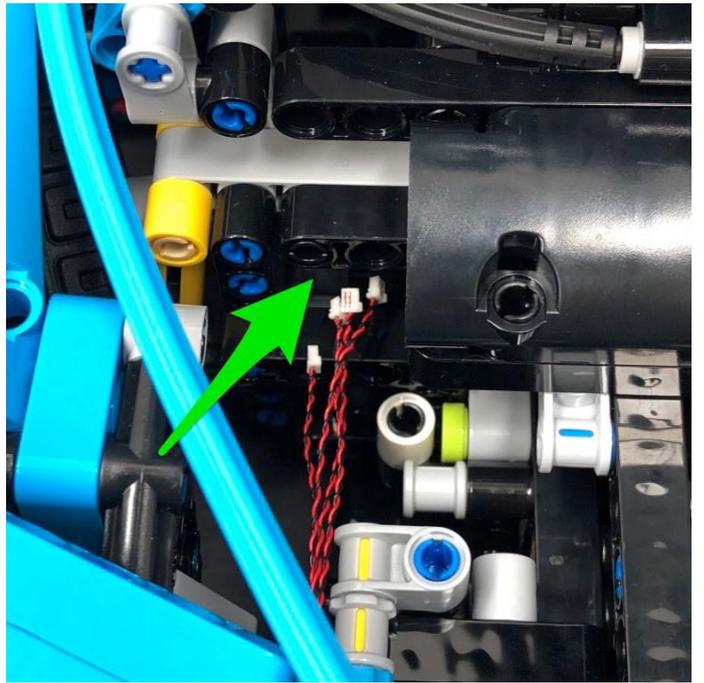
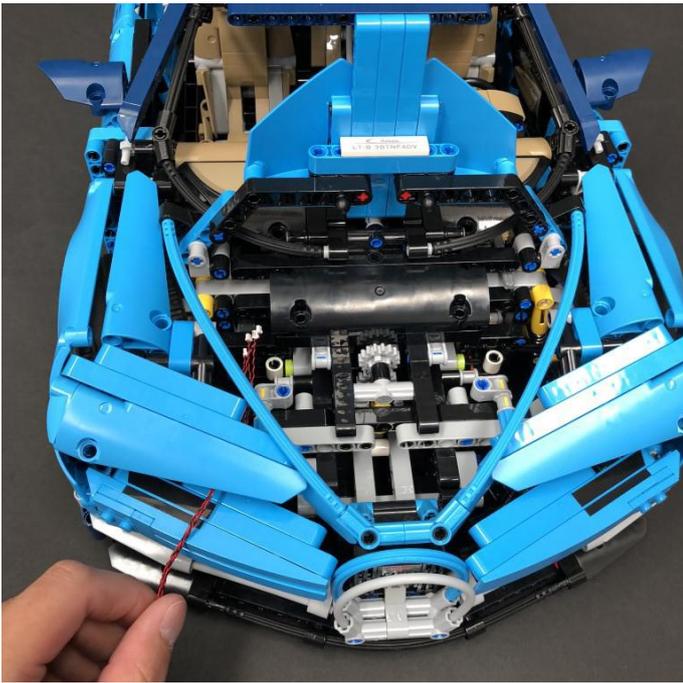
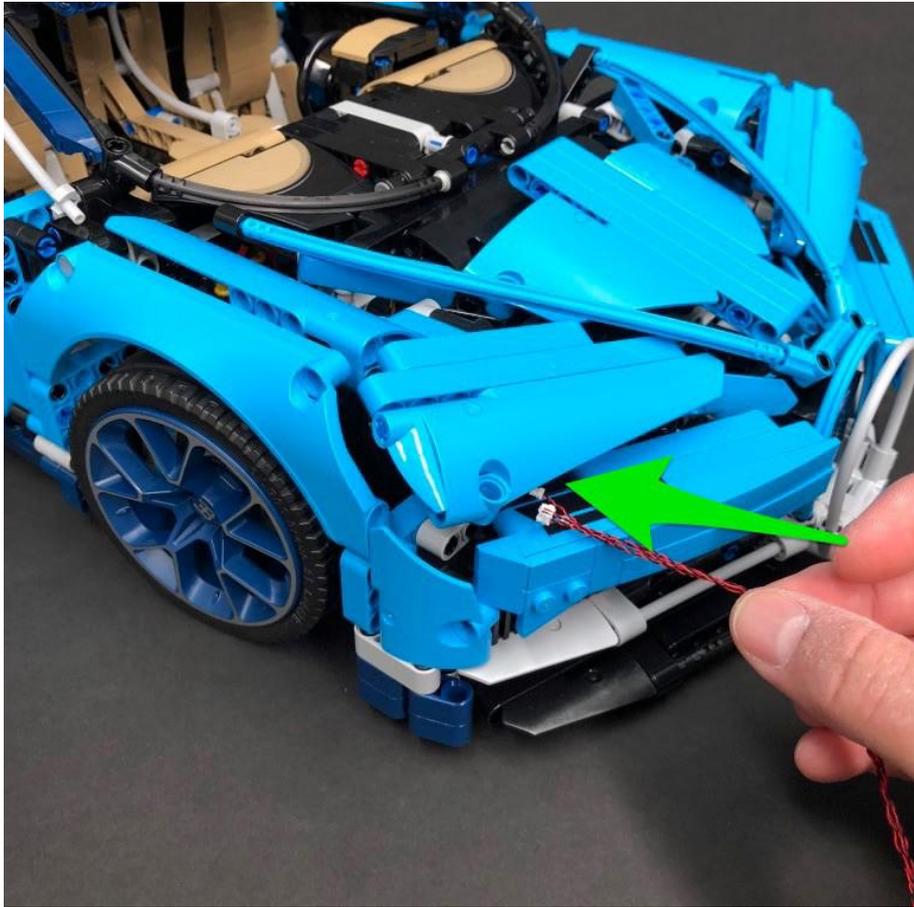
4.) Turn the headlight section over so that it is facing forward. Group all the cables together and twist them around each other.

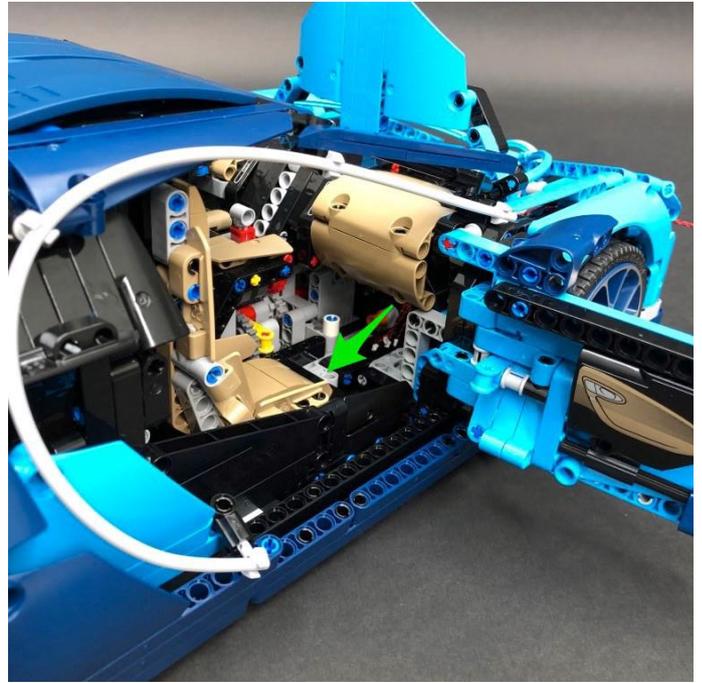
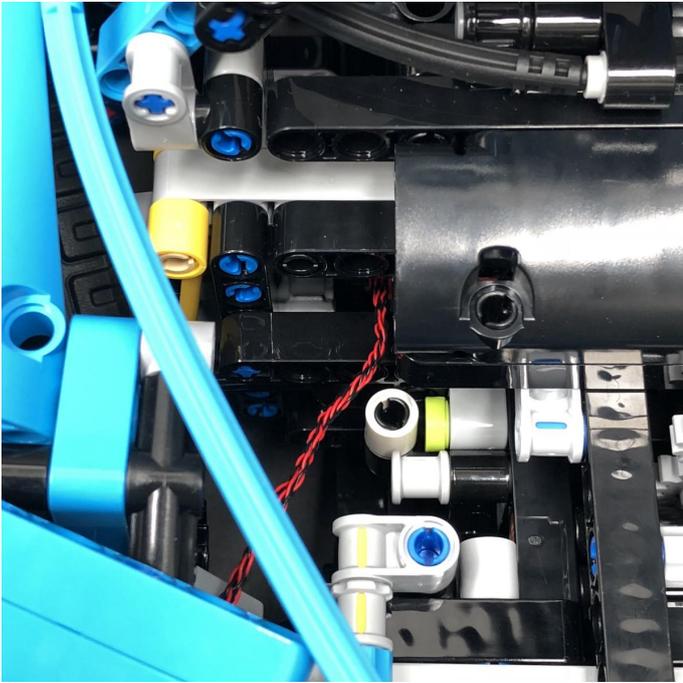


Continue to twist the cables around each other all the way to the end so that it forms one larger cable.

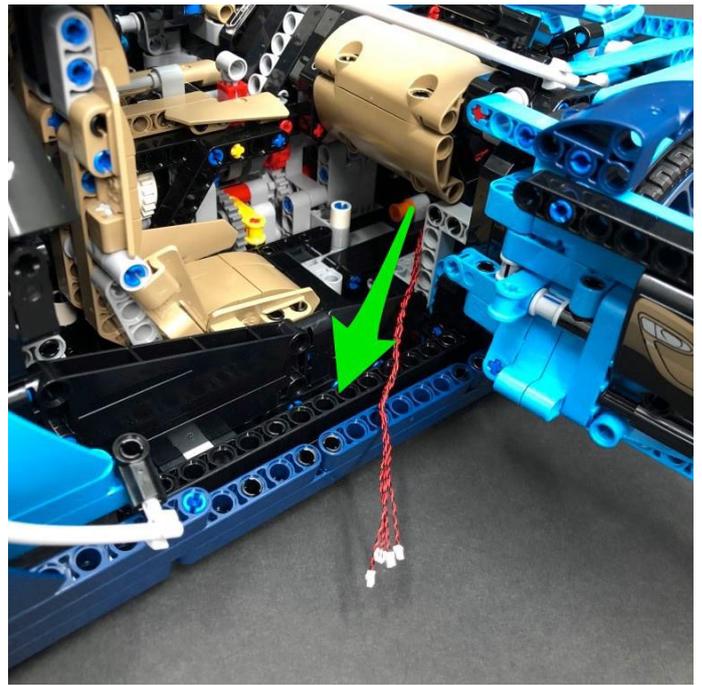
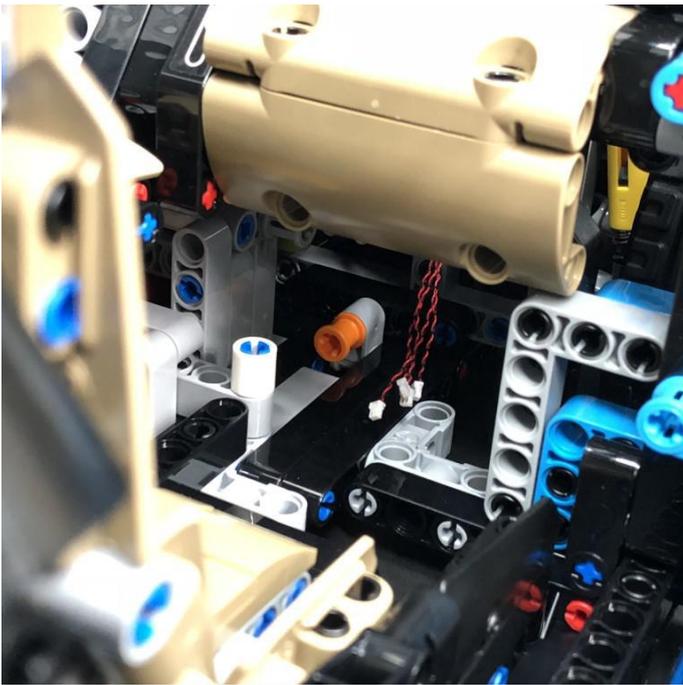


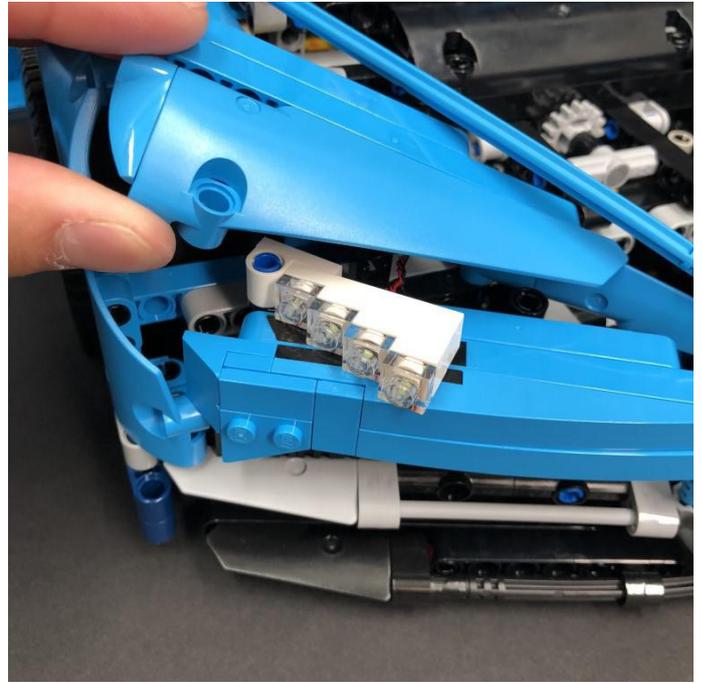
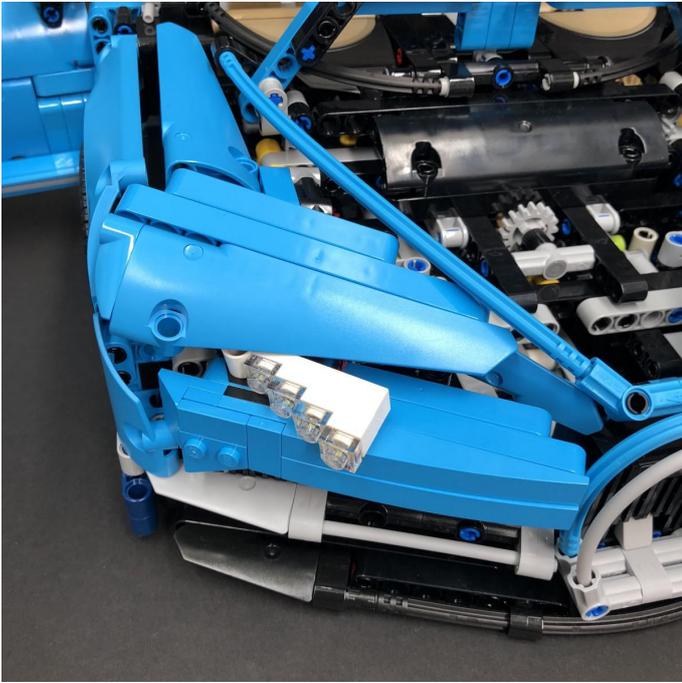
5.) Thread the cables through the front of the vehicle where the headlight was then continue to thread the cables through the space which leads to the internal passenger side.



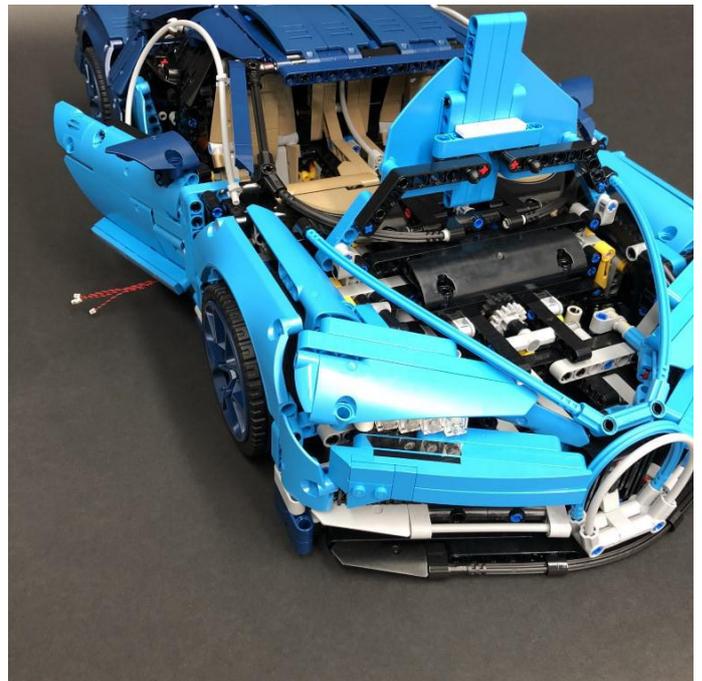
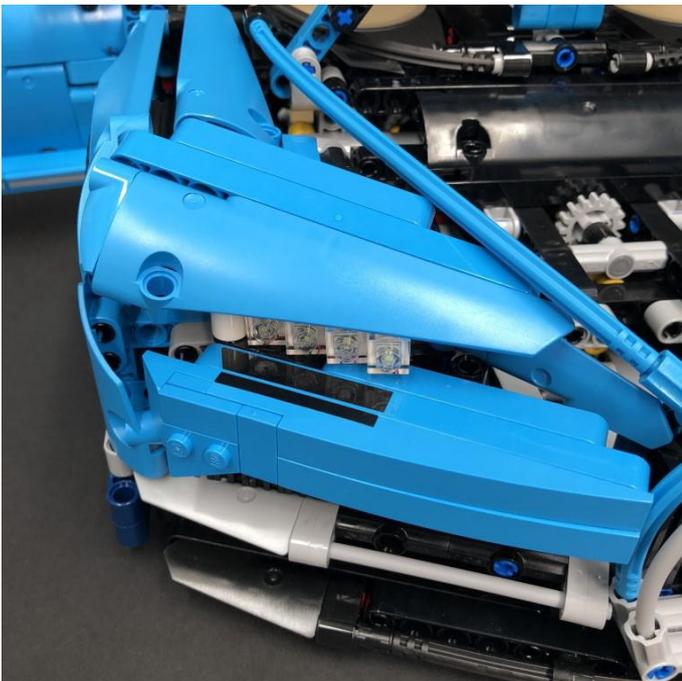


Pull the cable out and then reconnect the headlight while pulling the remaining cable out from the passenger side.

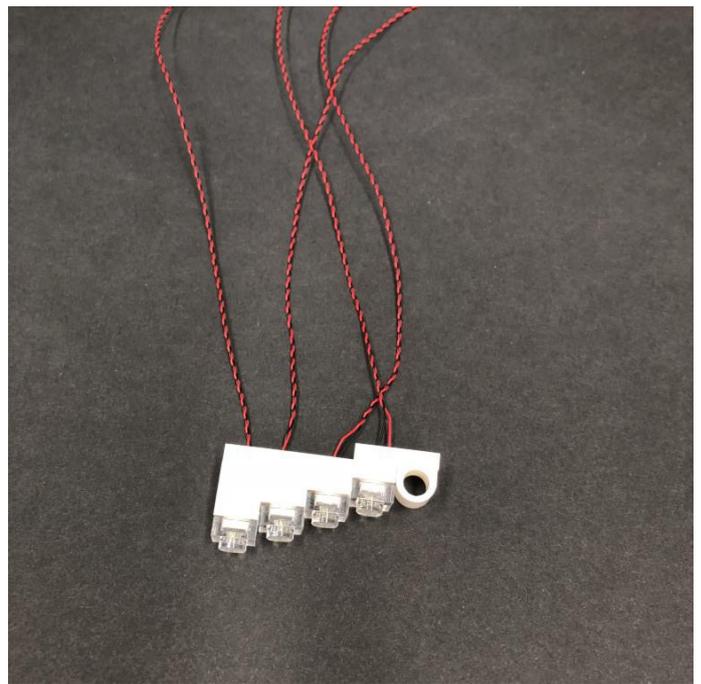
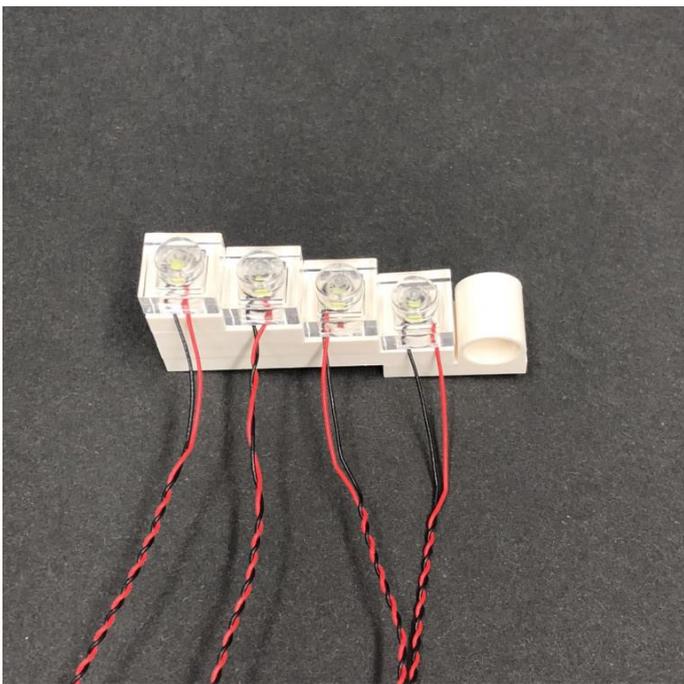
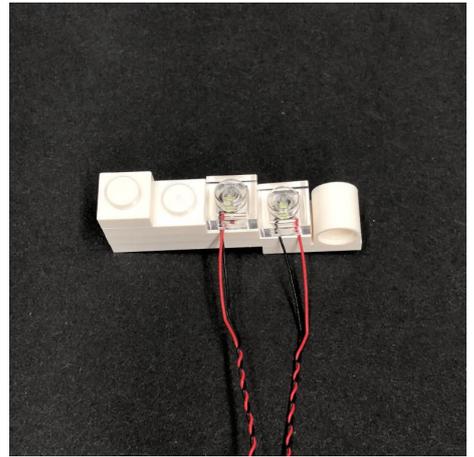
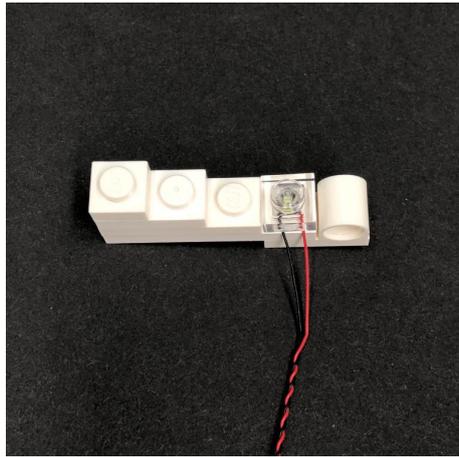
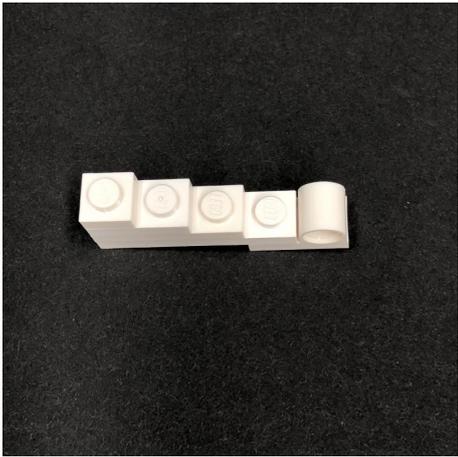
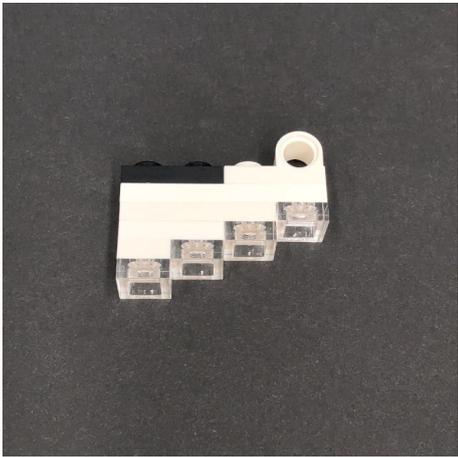


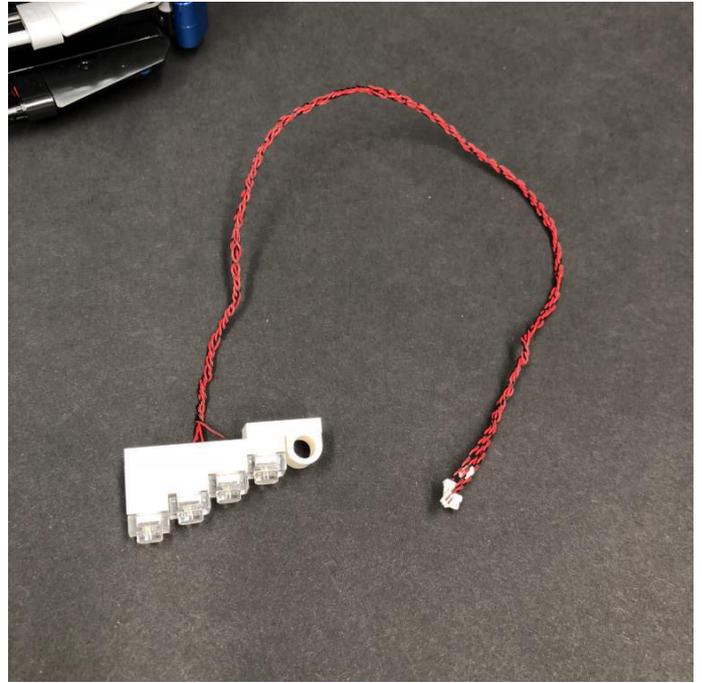
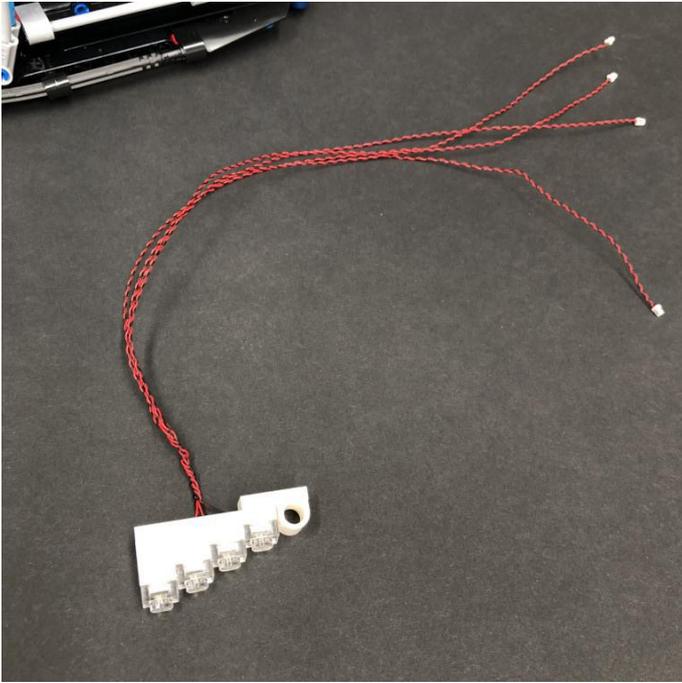


Push the headlight back into position.

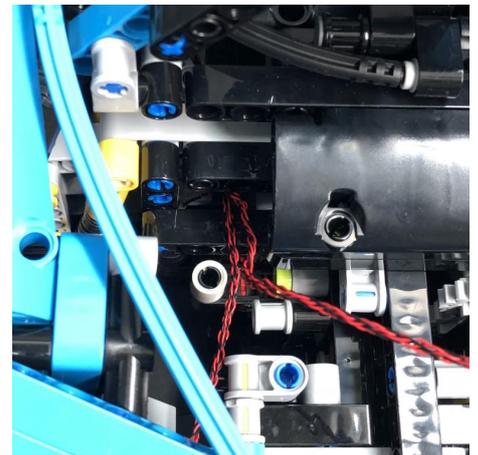
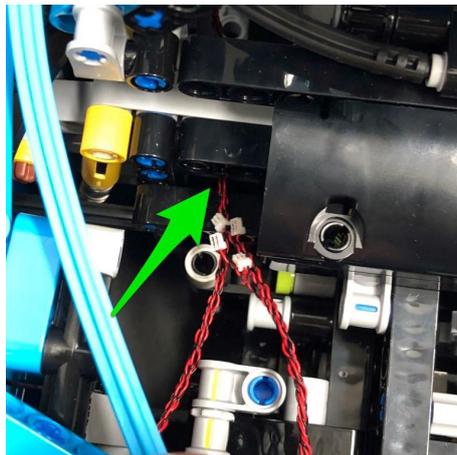
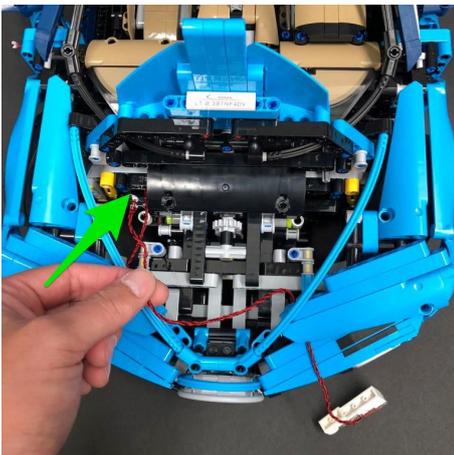
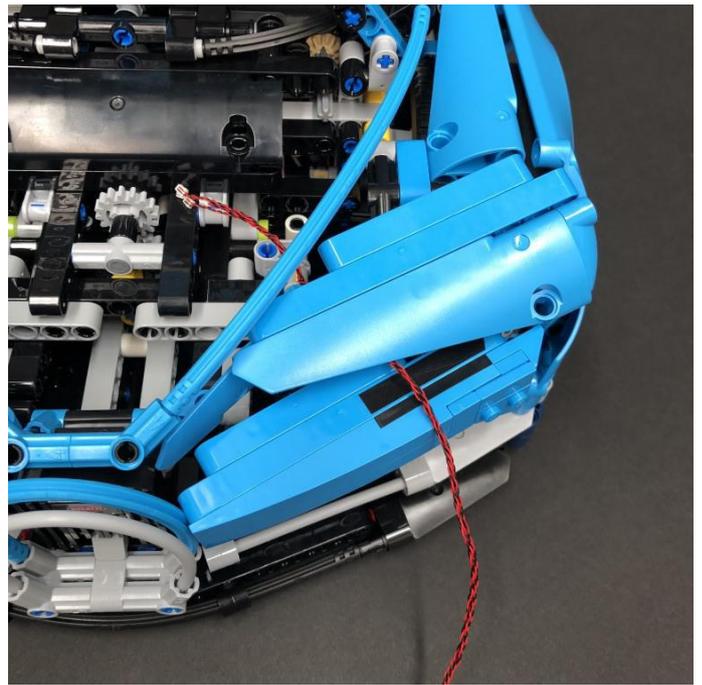
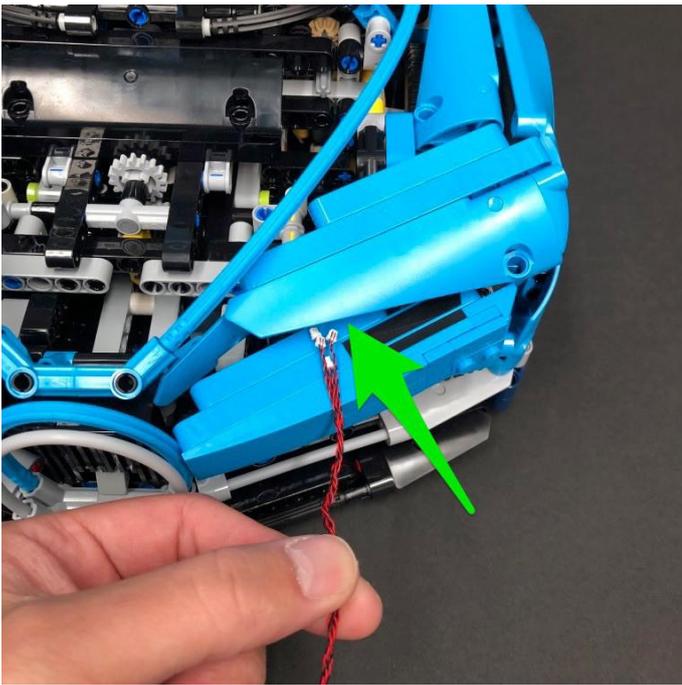


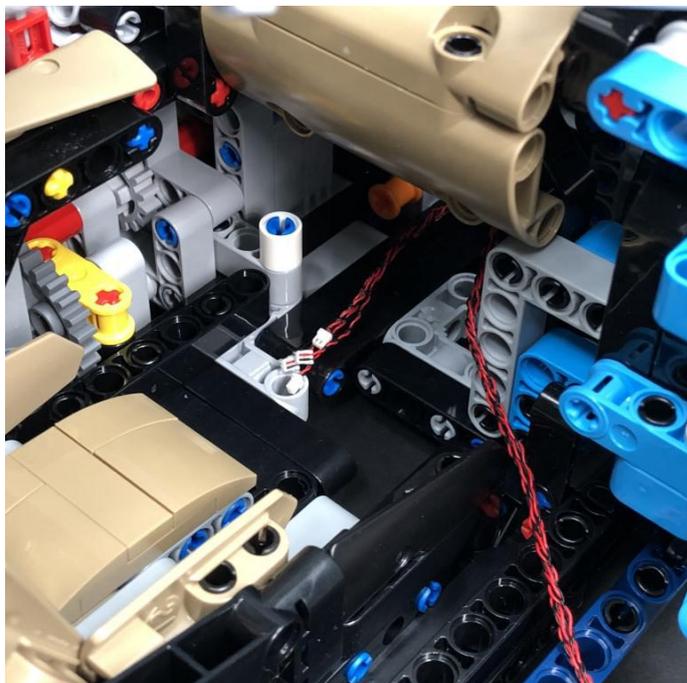
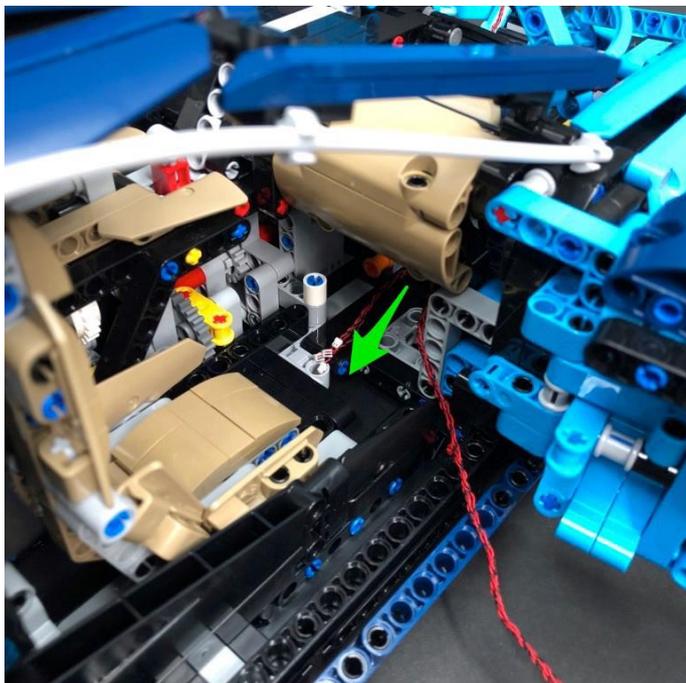
6.) Repeat steps 2-4 to rebuild and install another 4x Cool White 30cm Dot Lights to the right headlight.



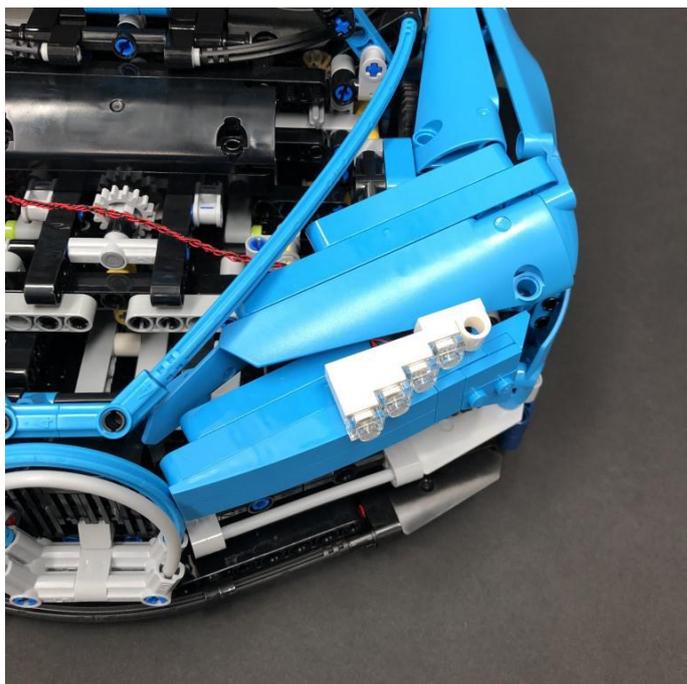
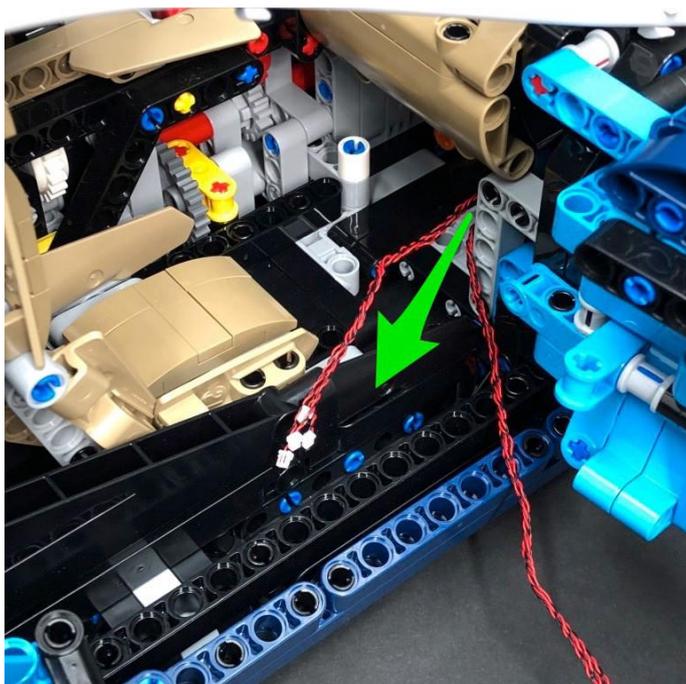


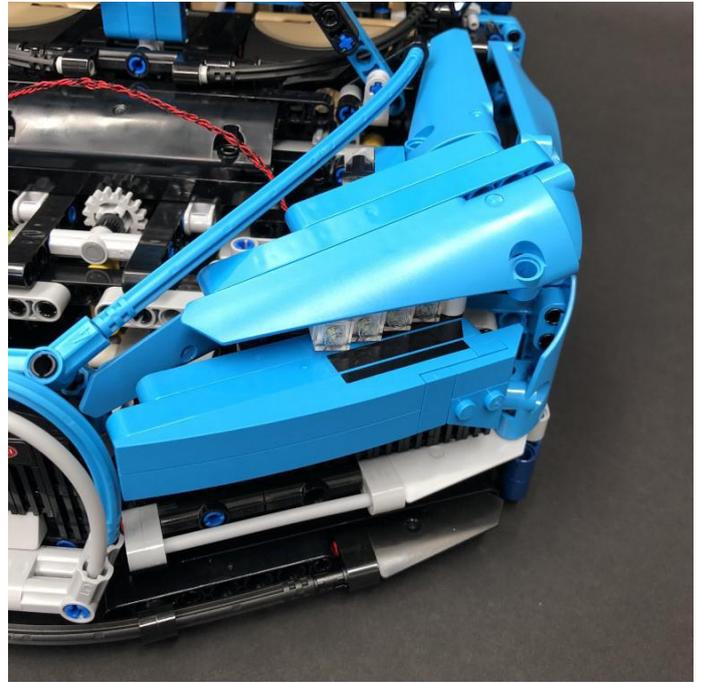
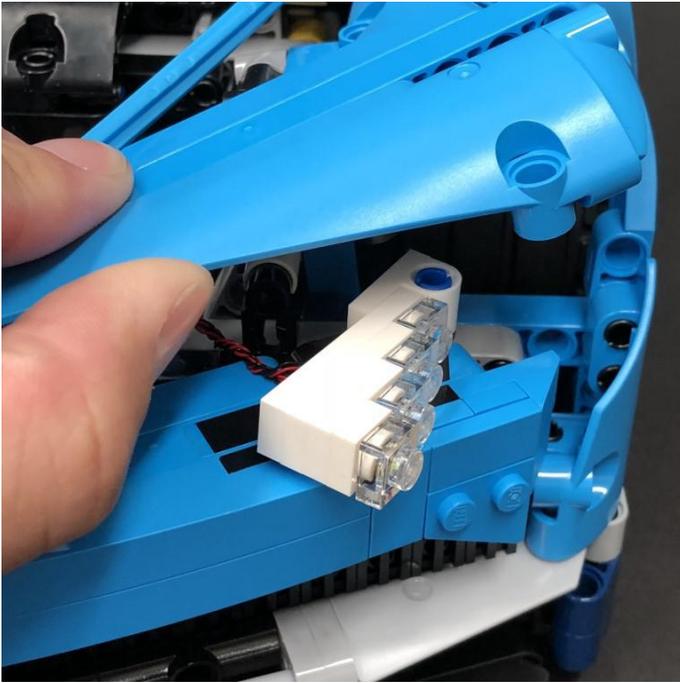
7.) Thread the right headlight cables through the front right side and then thread them through the same area we threaded the left headlight cables (through to the internal passenger side)



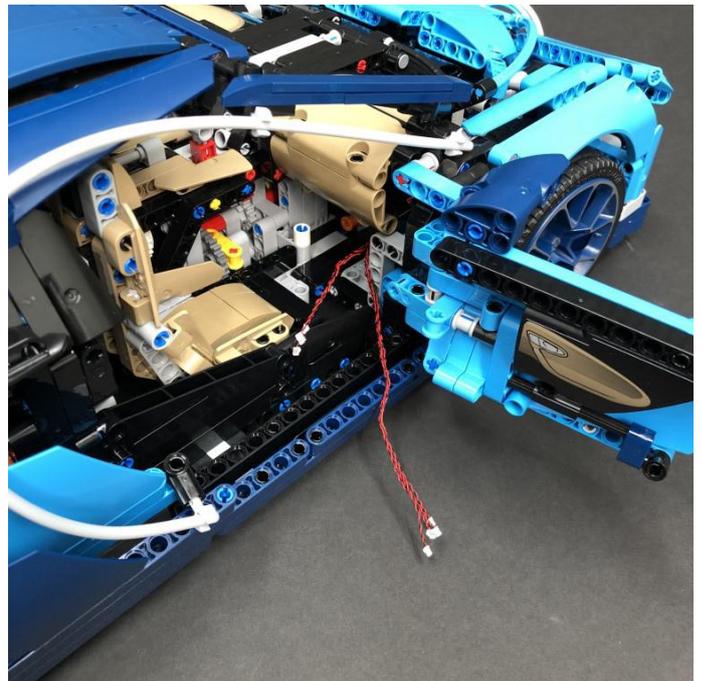


Pull the cable out and then reconnect the headlight while pulling the remaining cable out from the passenger side.

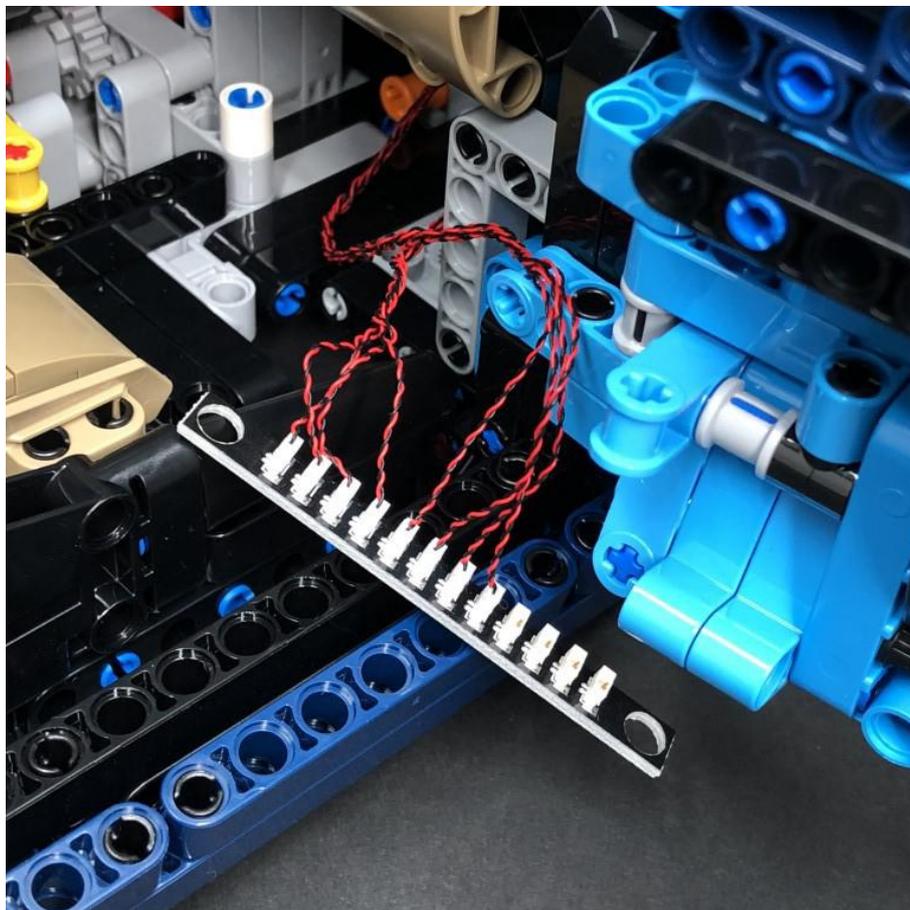
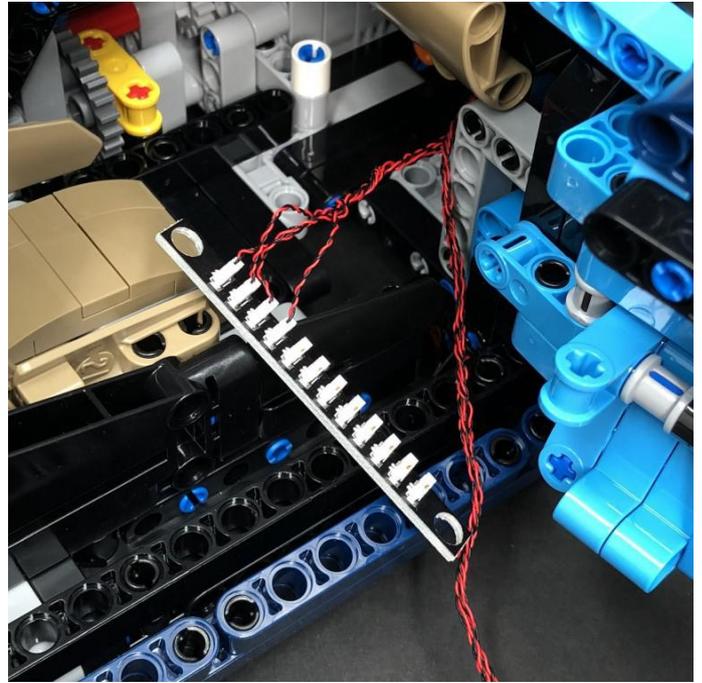
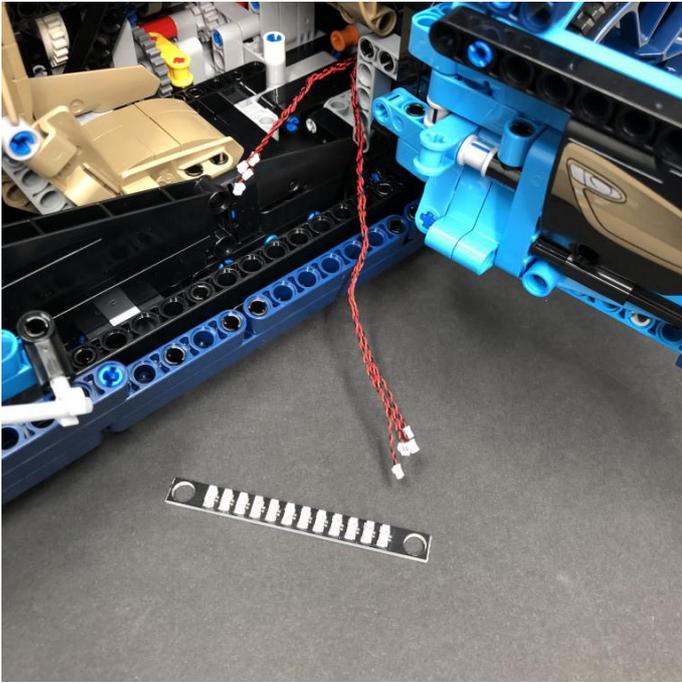




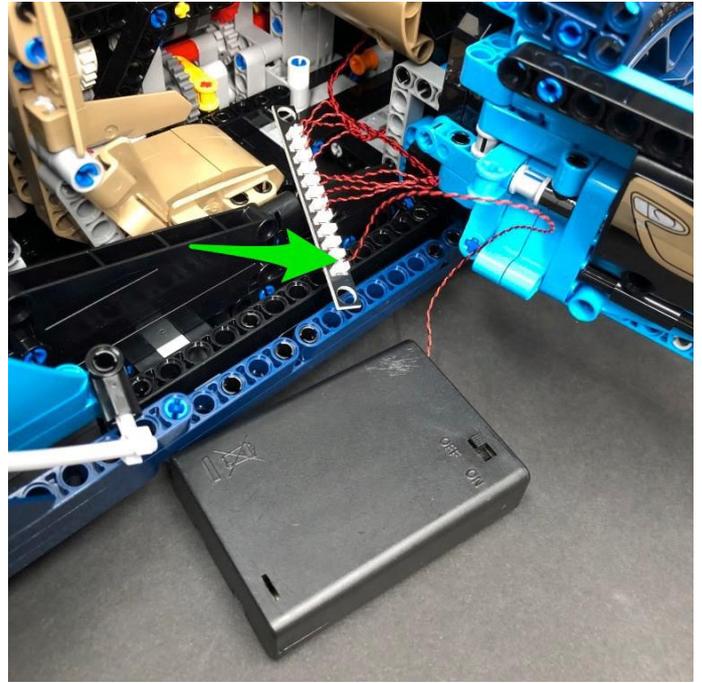
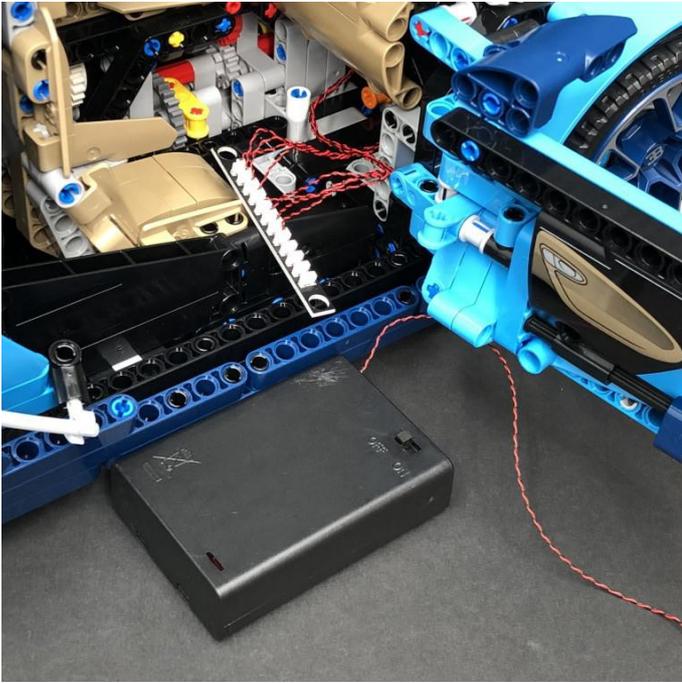
The front and passenger side of the vehicle should look like below.



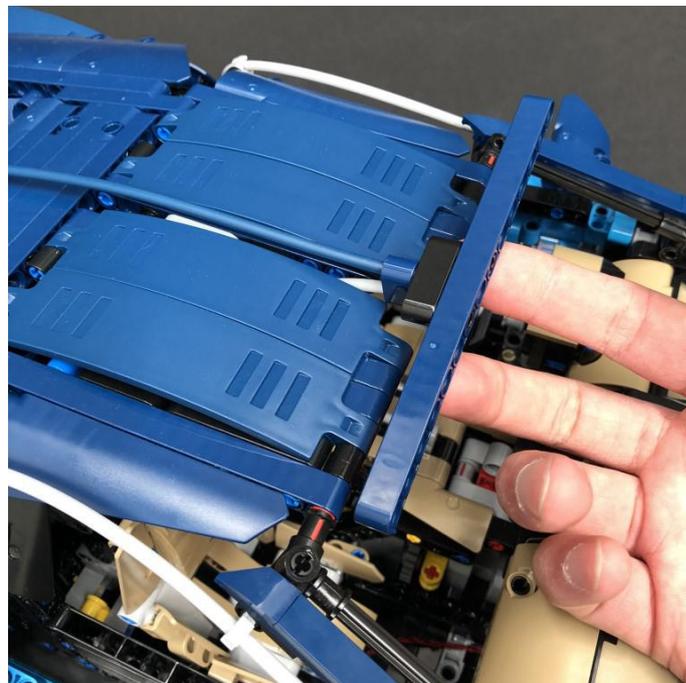
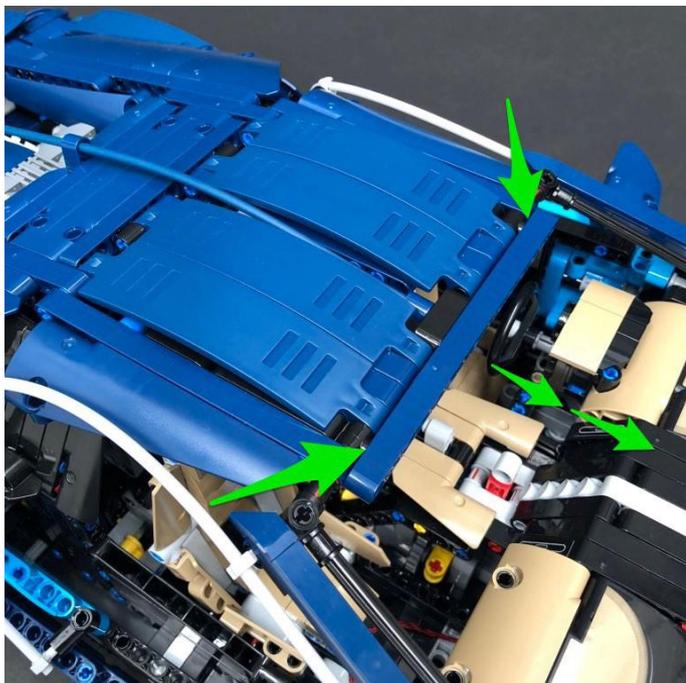
8.) Take a 12-Port Expansion Board and connect all the cables from both headlights to it starting with those from the right headlight first.



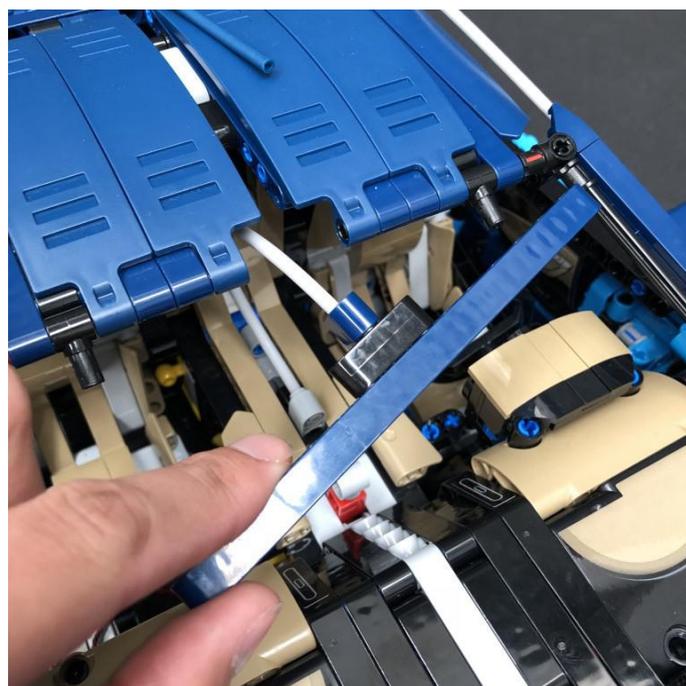
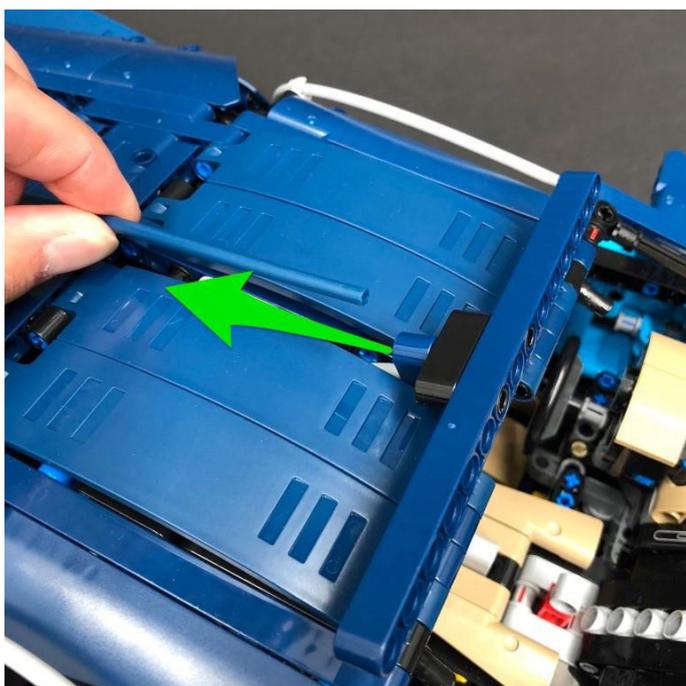
Take the AA Battery Pack and insert 3x AA Batteries to it. Connect the battery pack cable to the expansion board and then turn it ON to verify all lights are working OK.

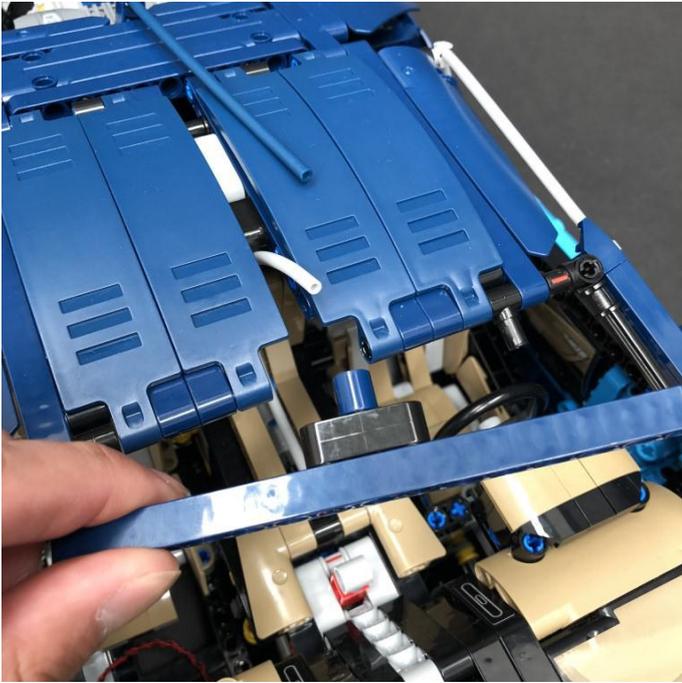


9.) We will now install one of the light bars to the inside of the Bugatti Chiron. First remove the blue technic brick and connected pieces from the front by disconnecting it from the two black pins and then pulling it out.

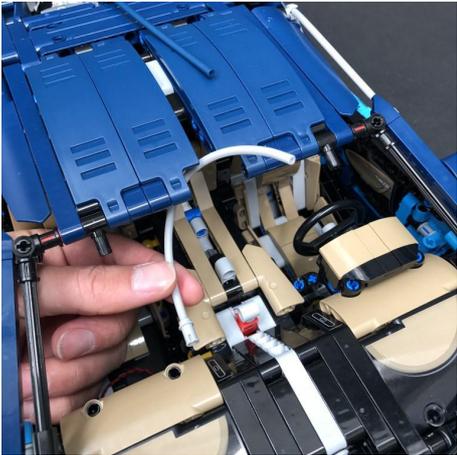


Push the blue technic bar that runs along the centre back and then disconnect the blue technic brick and connected pieces from the light grey technic bar.





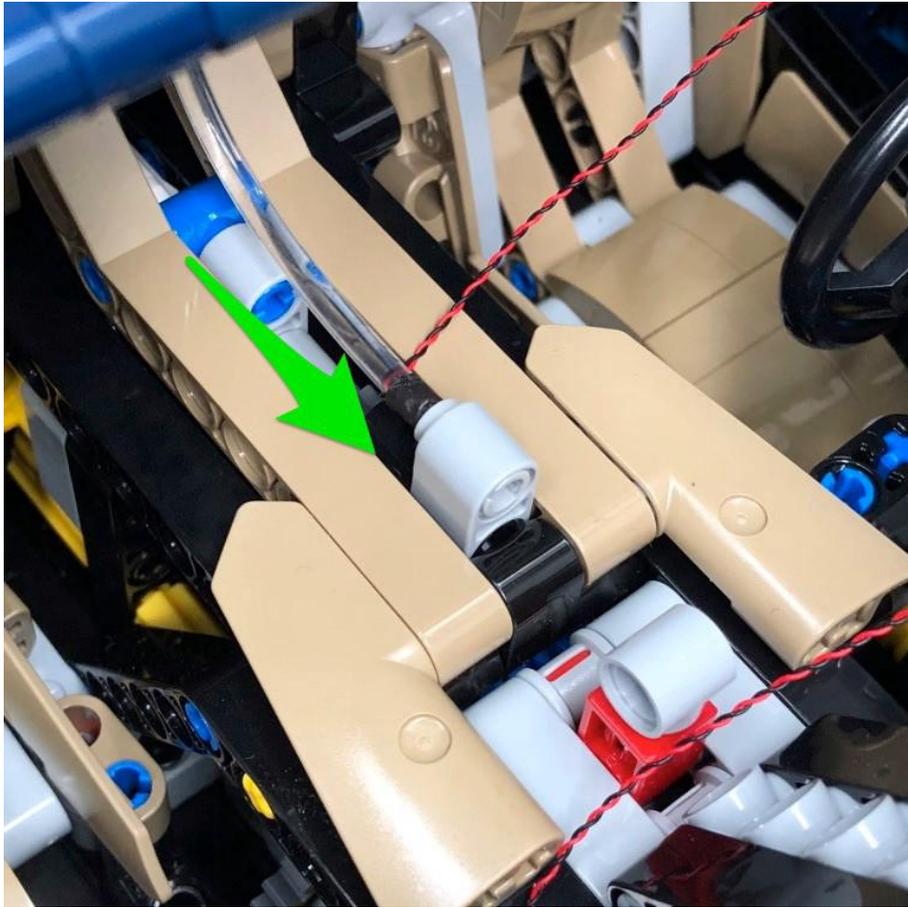
Remove the light grey technic bar and then disconnect the technic pin from the bottom of it.



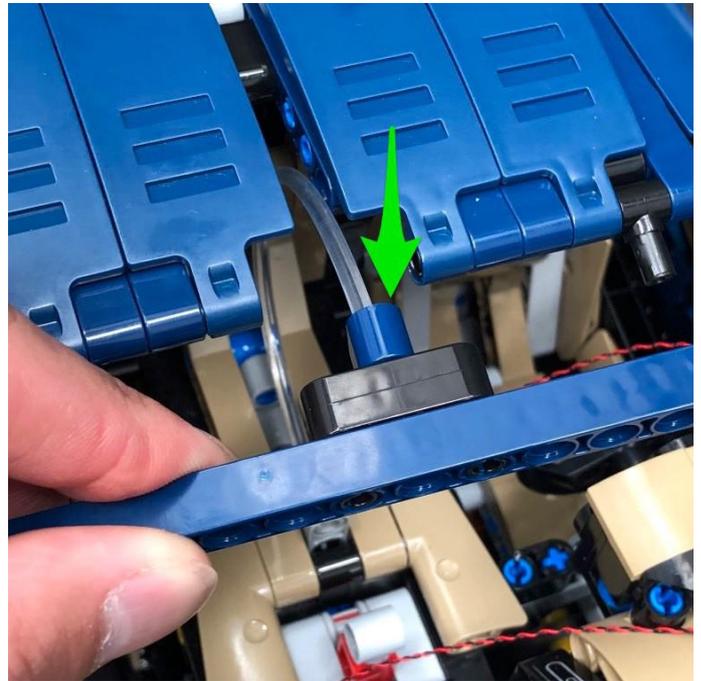
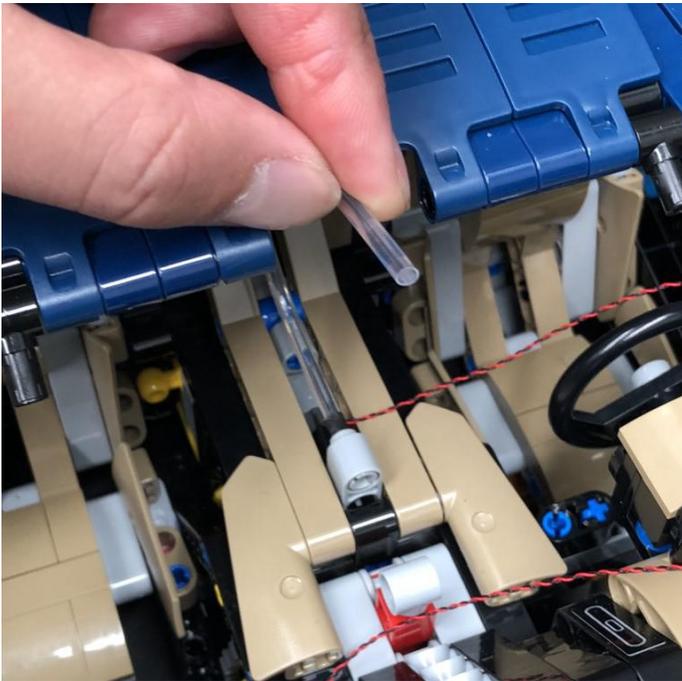
10.) Take the Cool White Light Bar 12.5cm and push it in through the top of the technic pin about 4-5mm as per below. Do not forcefully push the light bar all the way in.



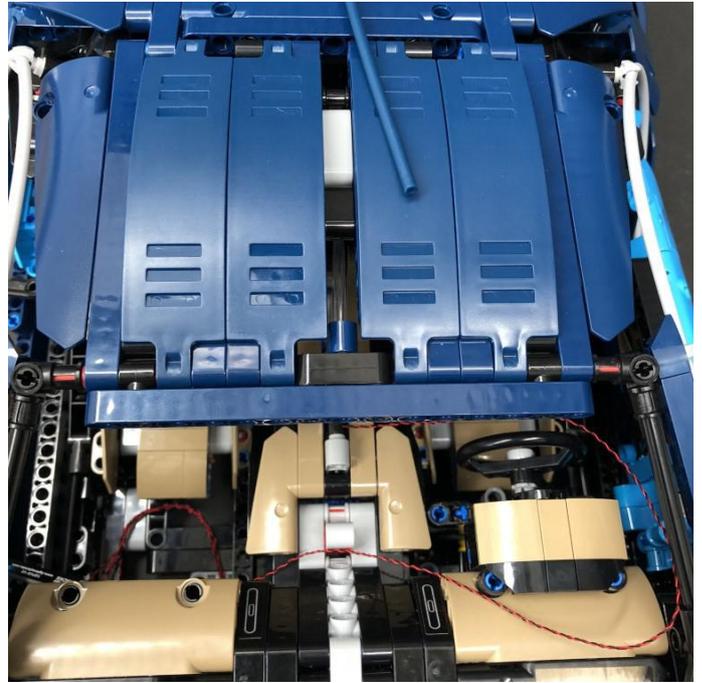
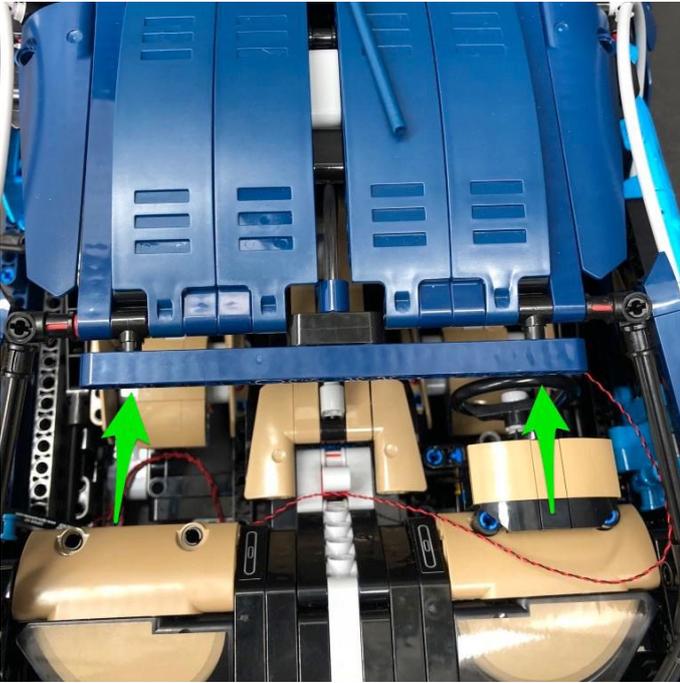
Connect the cool white light bar inside the vehicle via the technic pin ensuring the cable is on the bottom side of the bar.



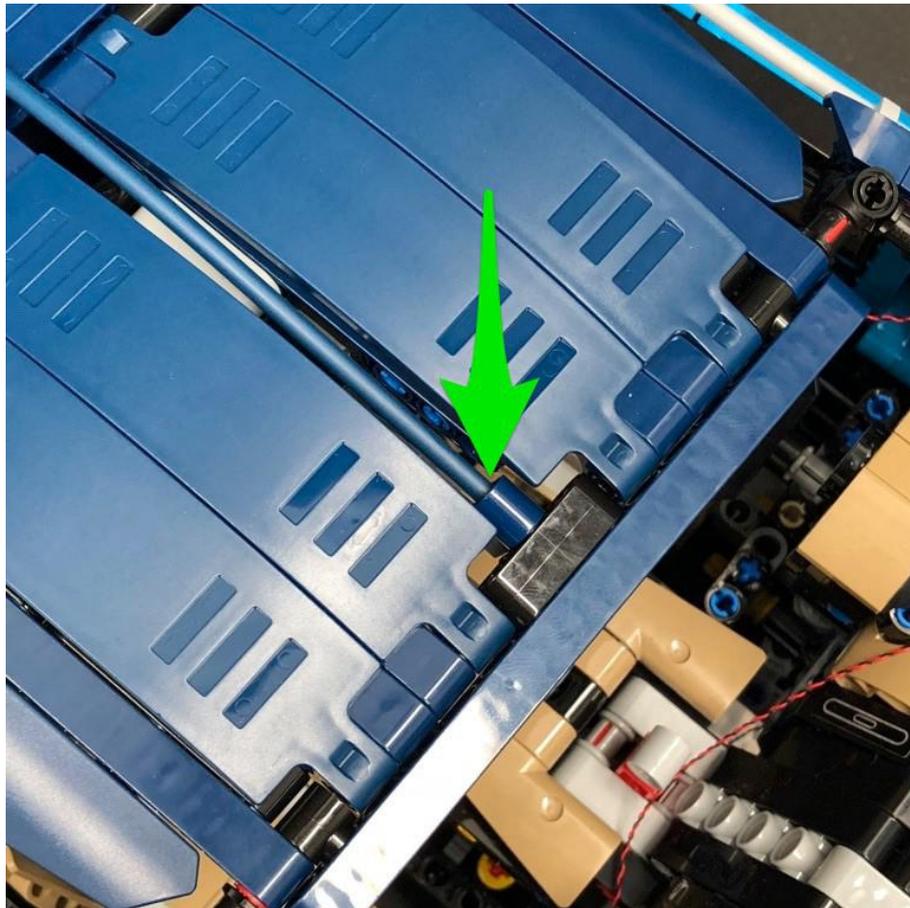
Carefully bend the light bar inward before connecting it to the blue technic brick.



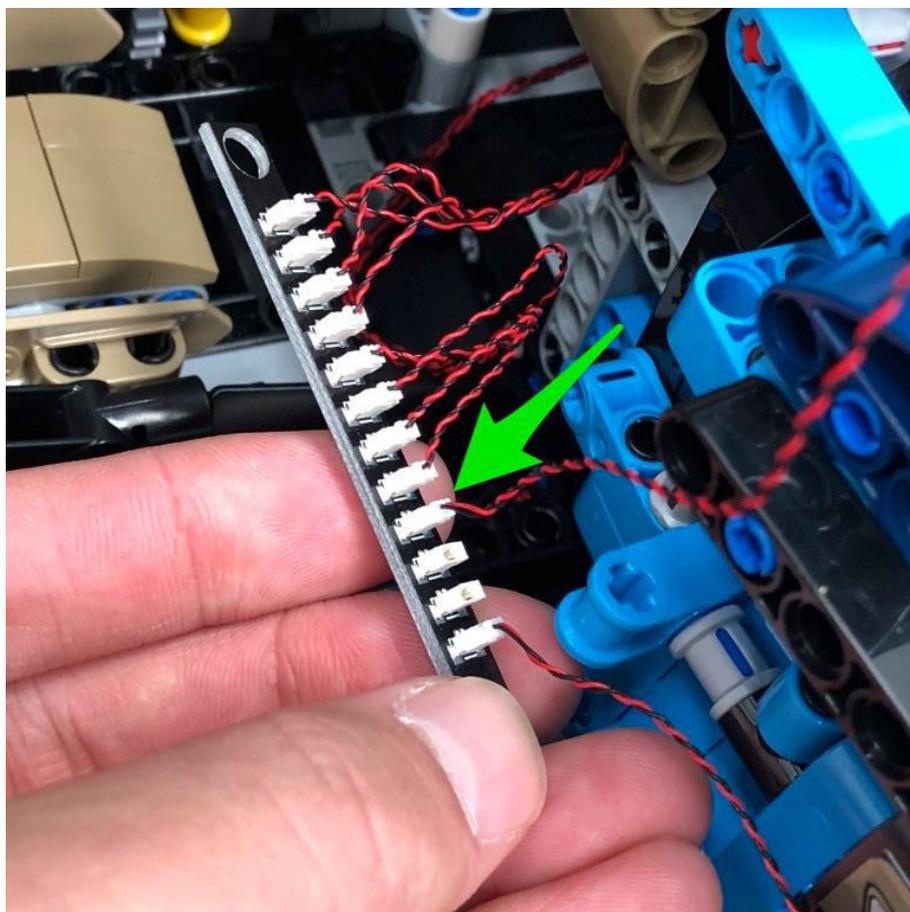
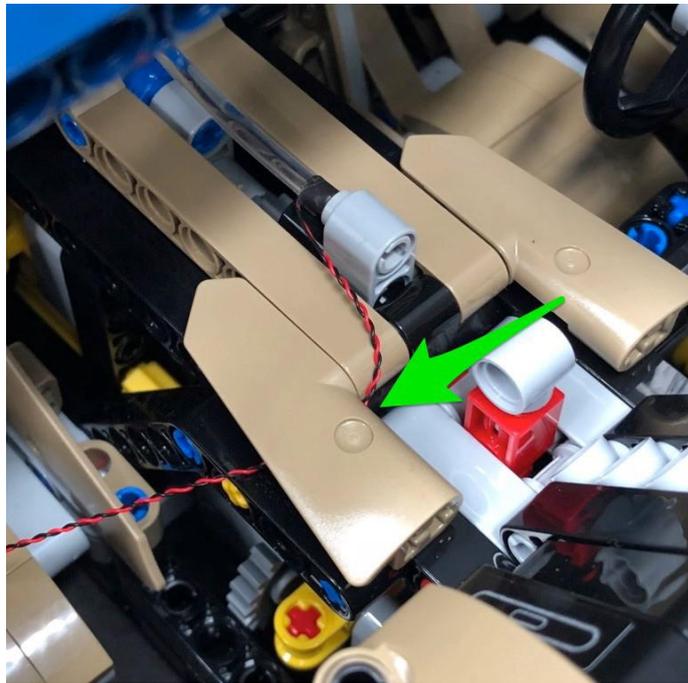
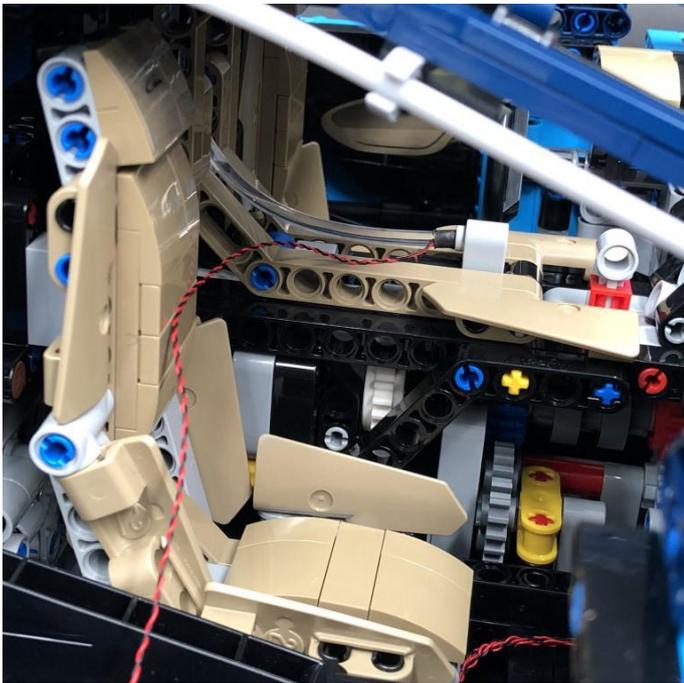
Reconnect this section back to the vehicle using the two black technic pins.



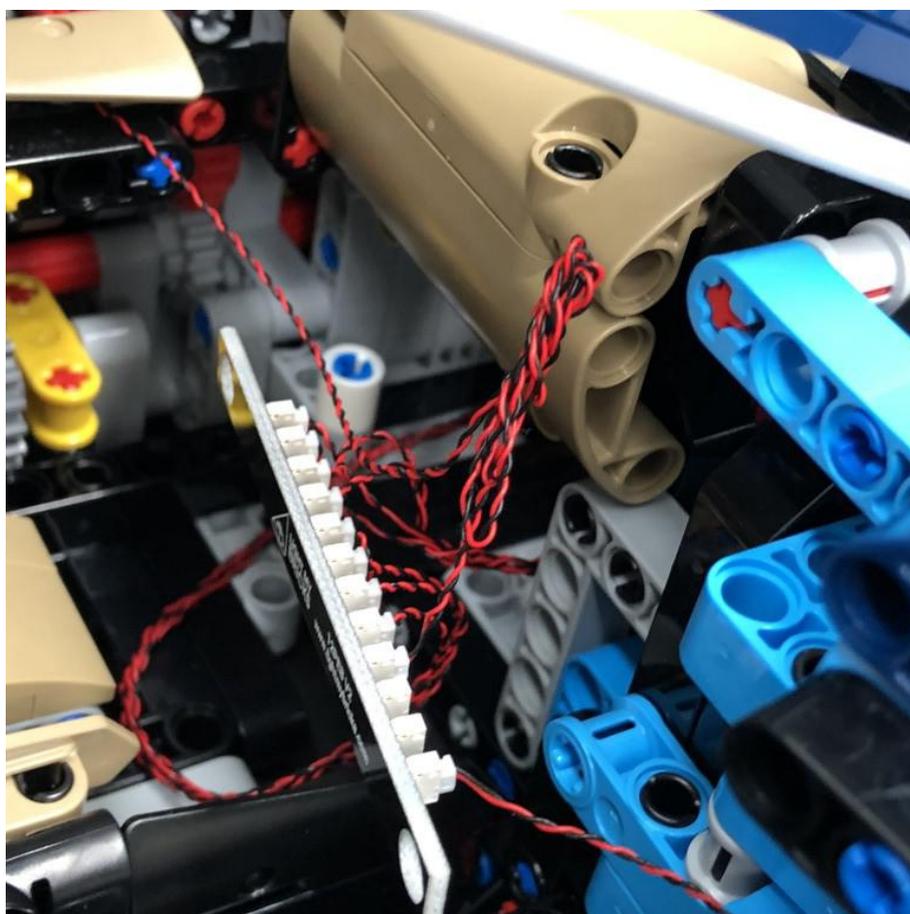
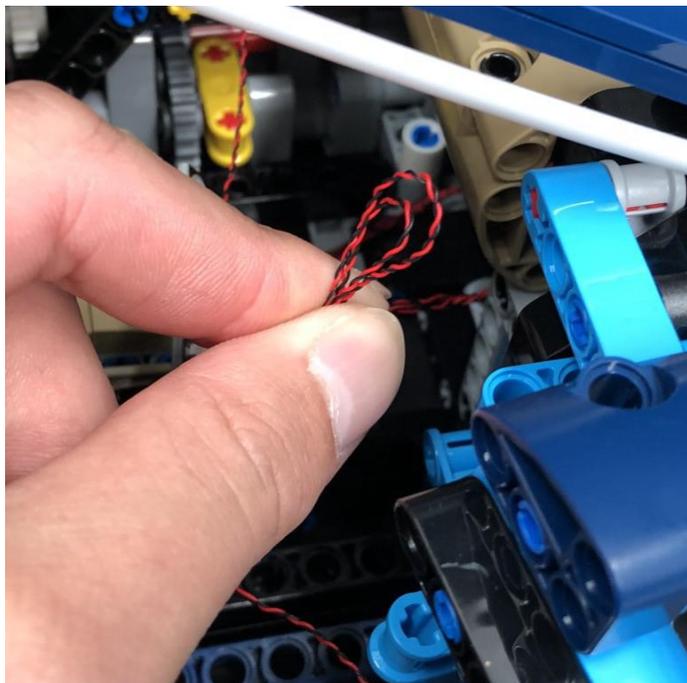
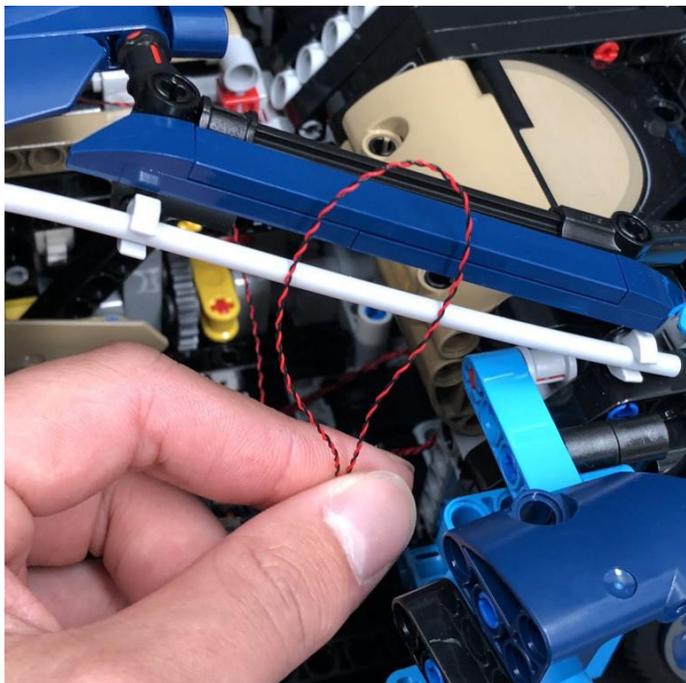
Push the blue technic bar back into place.



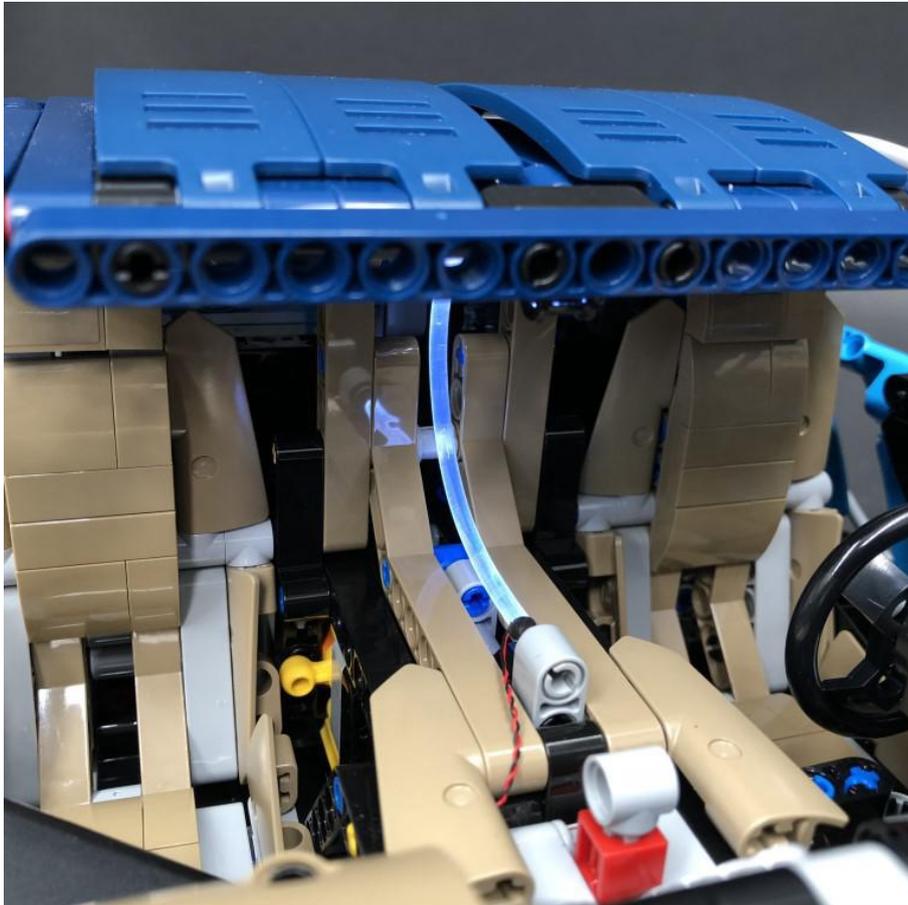
11.) Thread the Light Bar cable underneath the following technic piece and then connect it to a spare port on the 12-port expansion board.



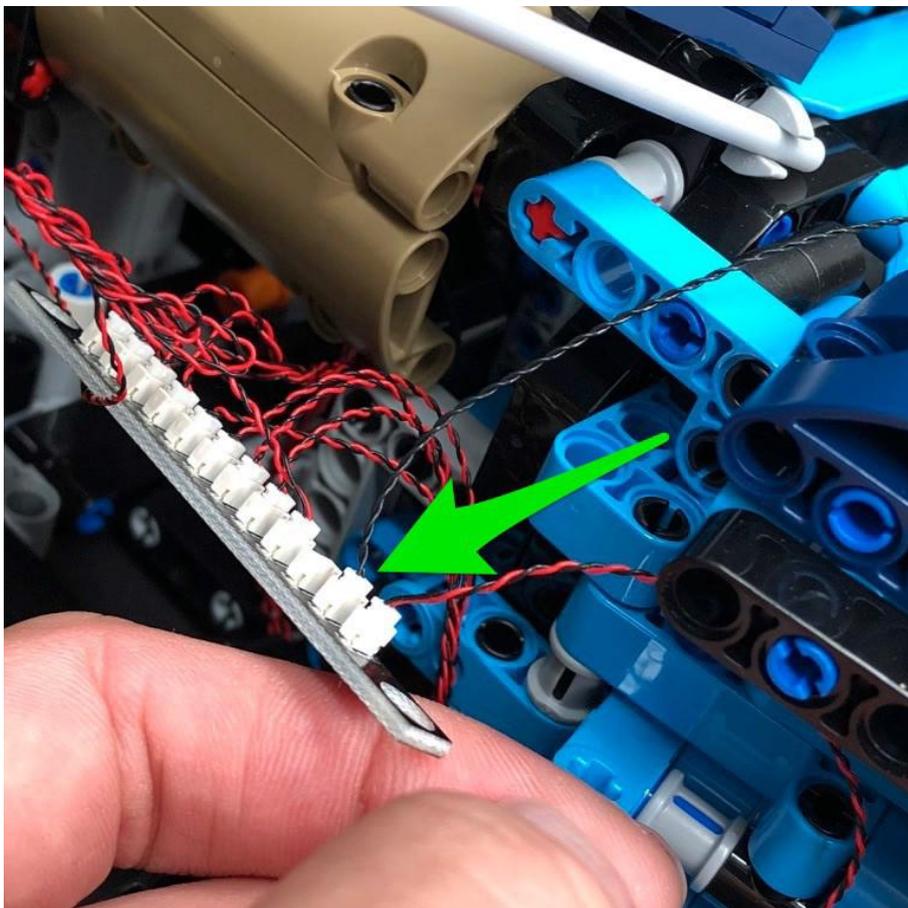
Eliminate excess cable from the light bar by folding the cable over twice and then twisting it around each other a few times as per below.



Turn the Battery Pack ON to test the internal light bar is working OK.

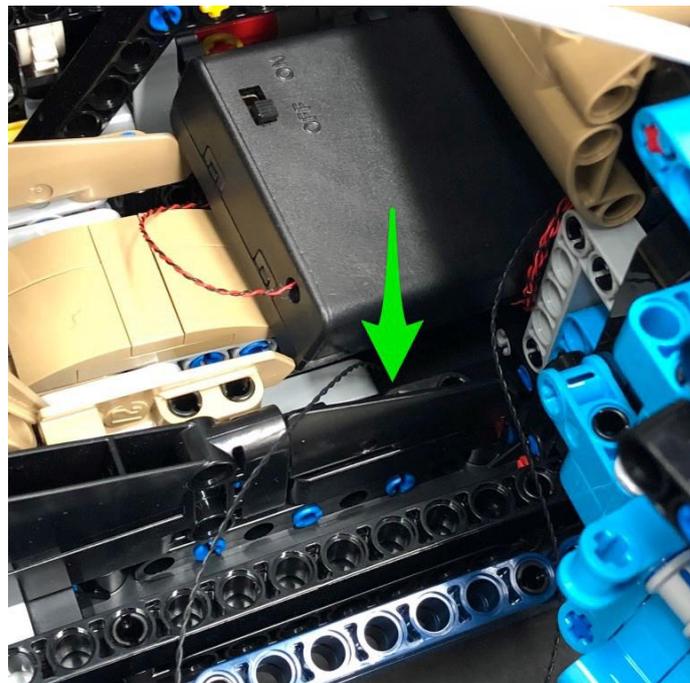
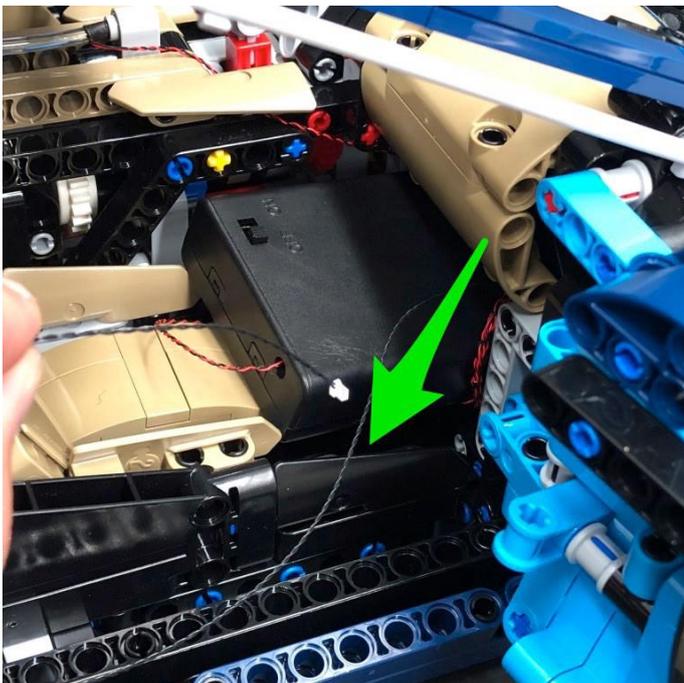


12.) Take a 30cm Connecting Cable and connect it to a spare port on the 12-port expansion board.

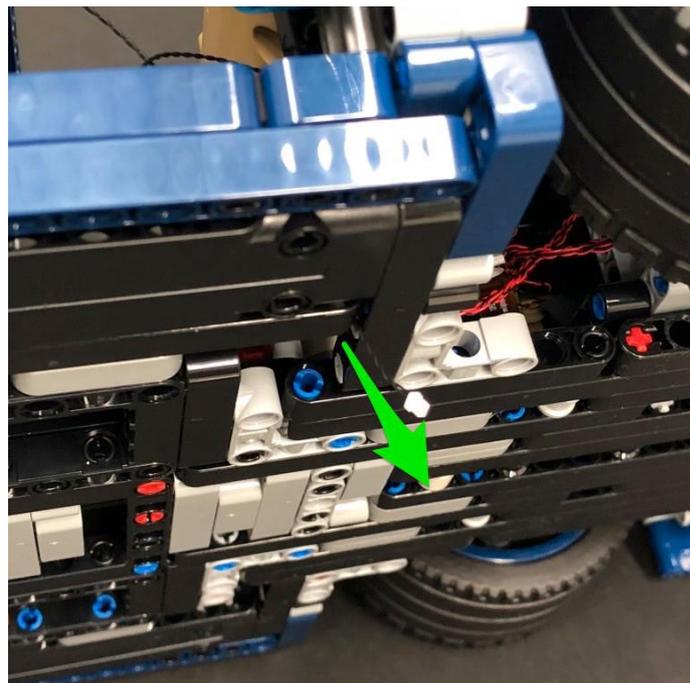
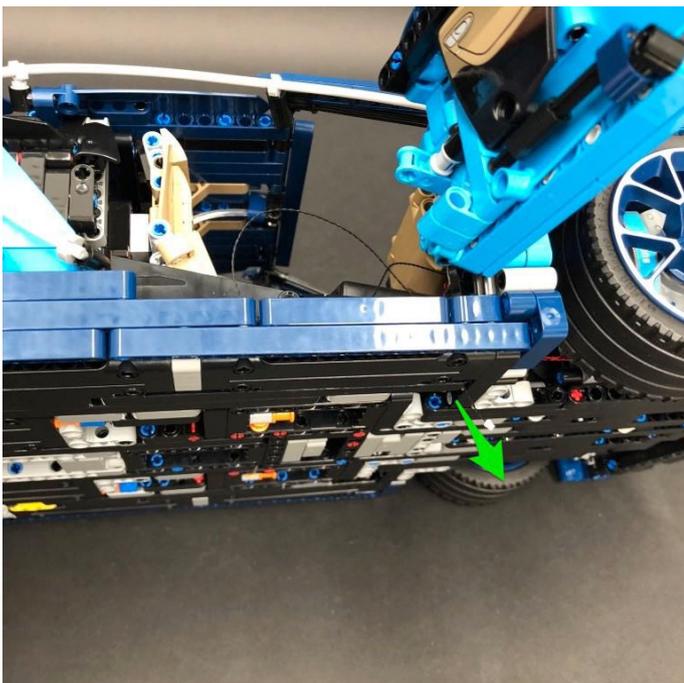


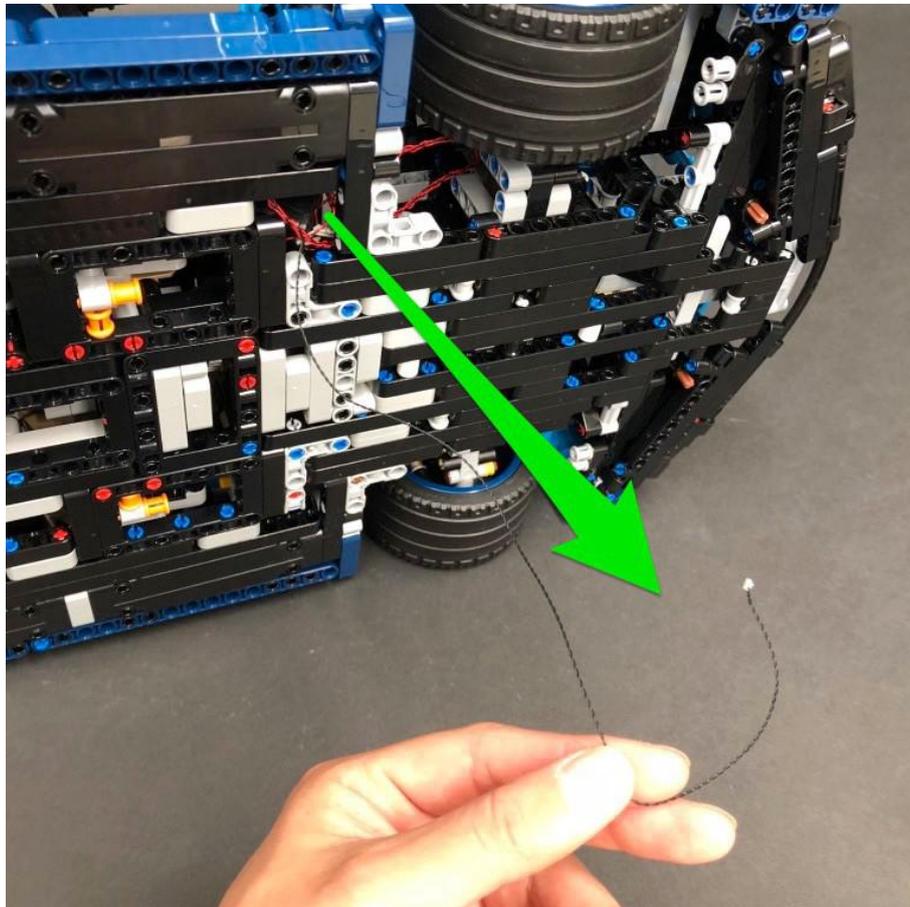
Neatly push the expansion board and cables into the passenger foot area before seating the Battery Pack over the top then thread the connecting cable down the space which leads to underneath the

vehicle.

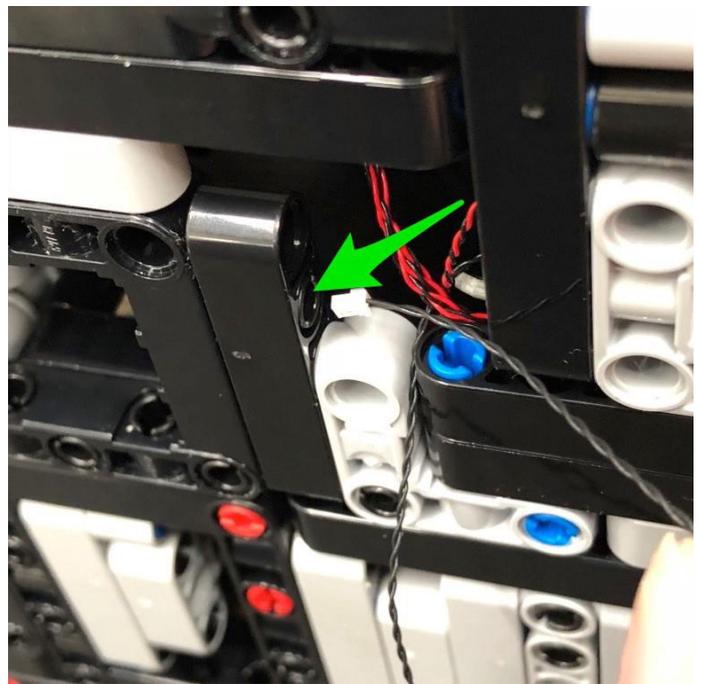
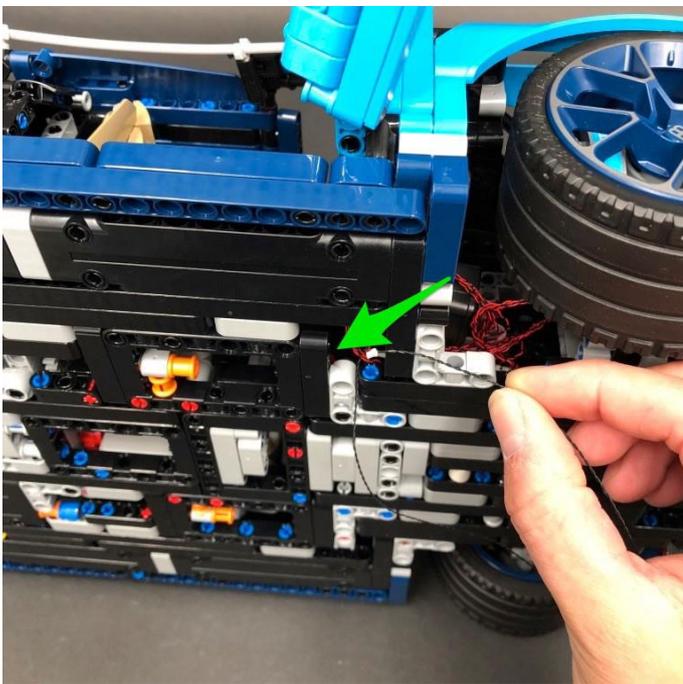


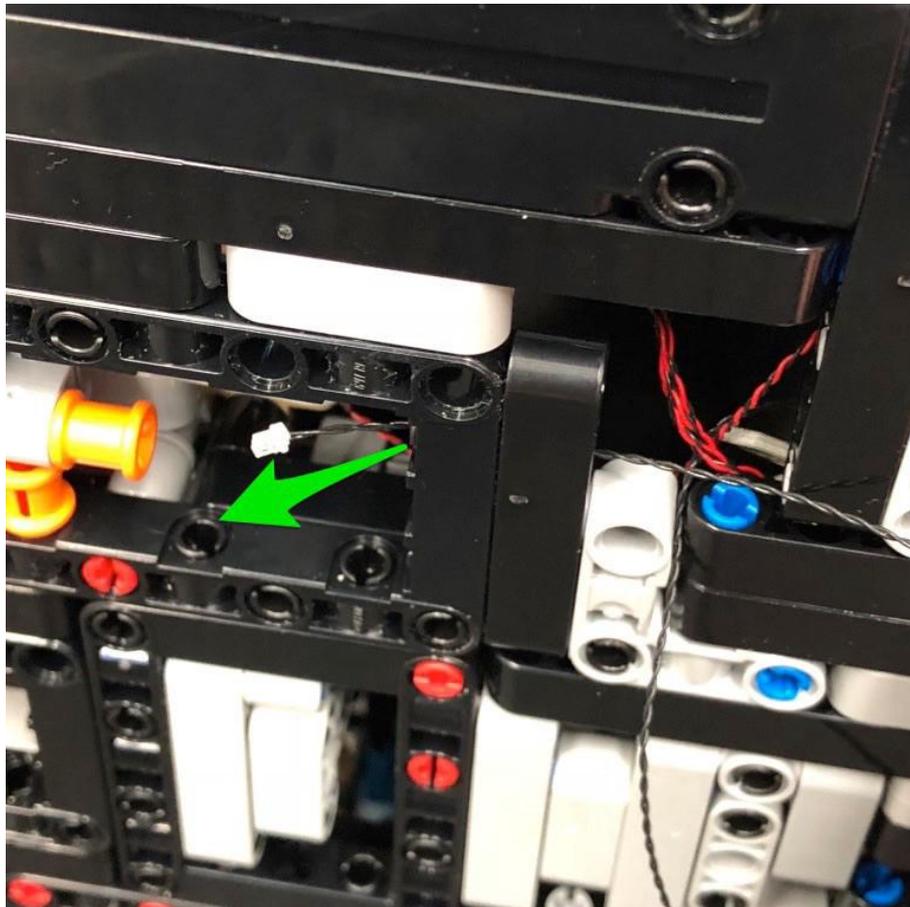
14.) Turn the Bugatti over onto it's side so that we can access underneath. Locate the cable and then pull it all the way out.



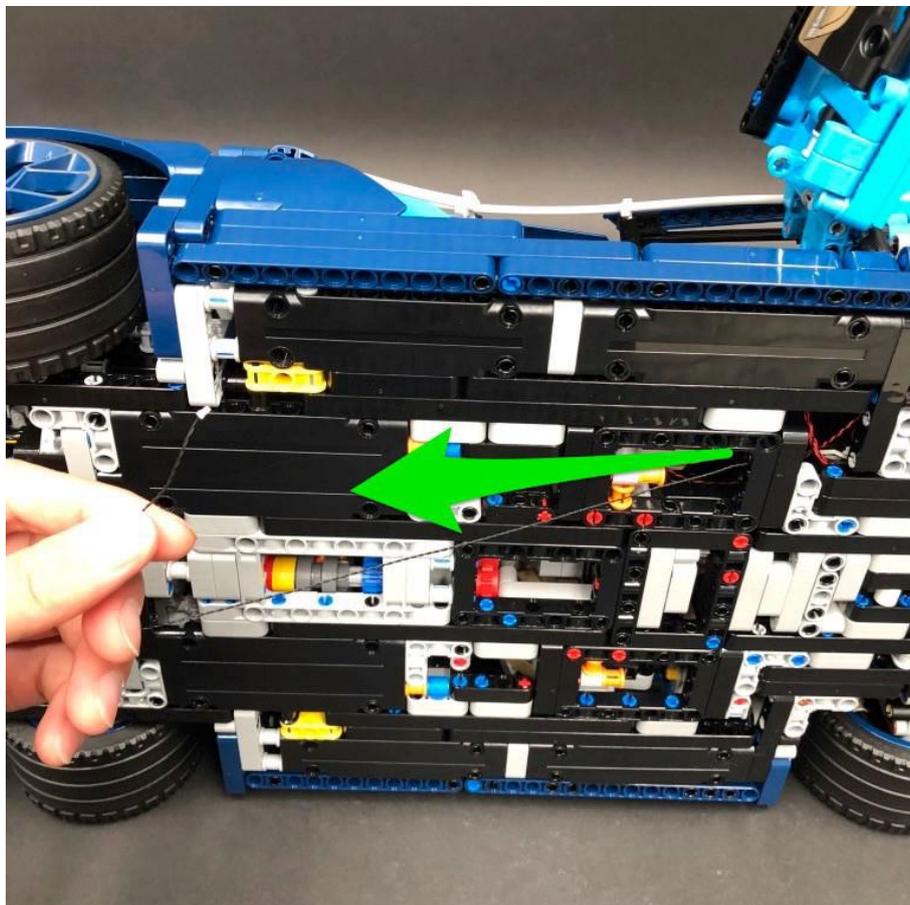


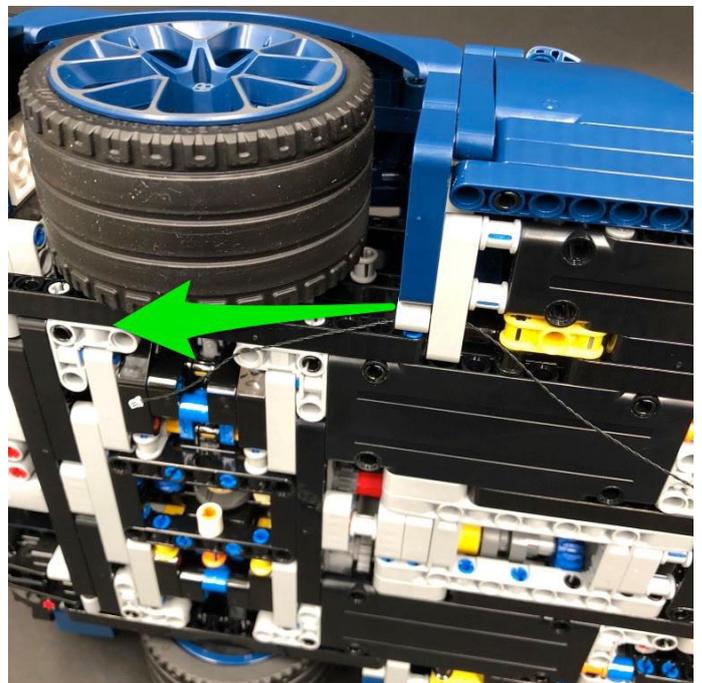
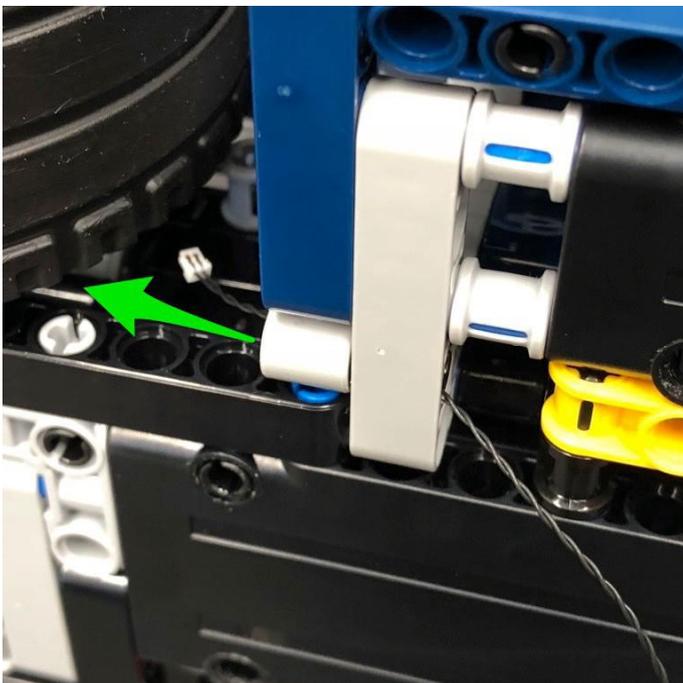
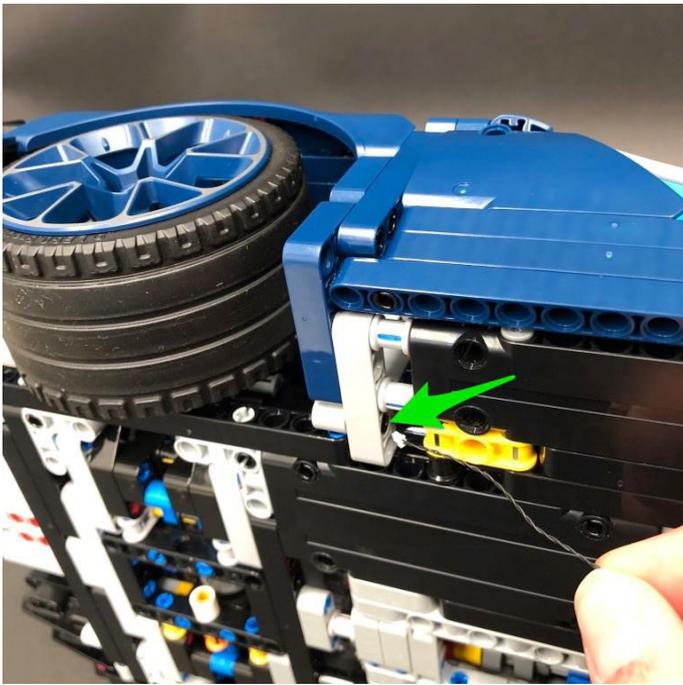
Thread the cable through the hole of the following black technic brick underneath the vehicle.



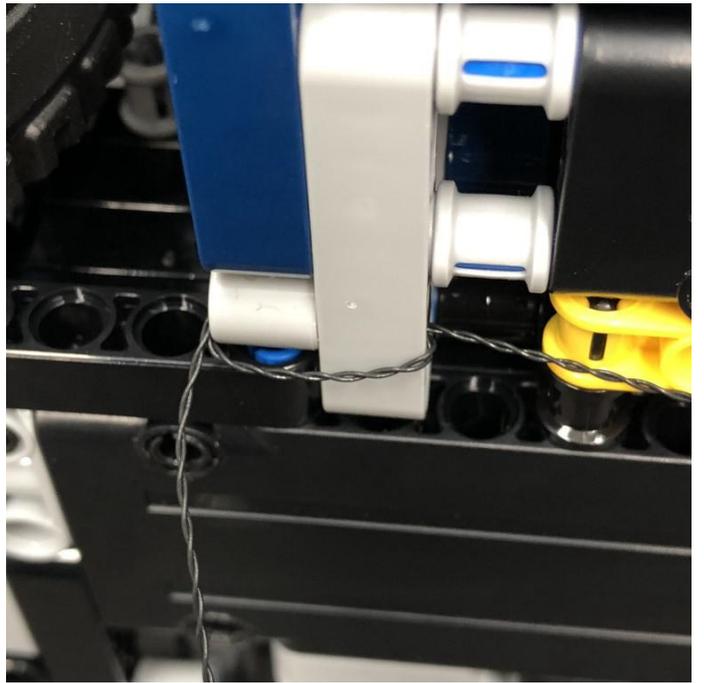
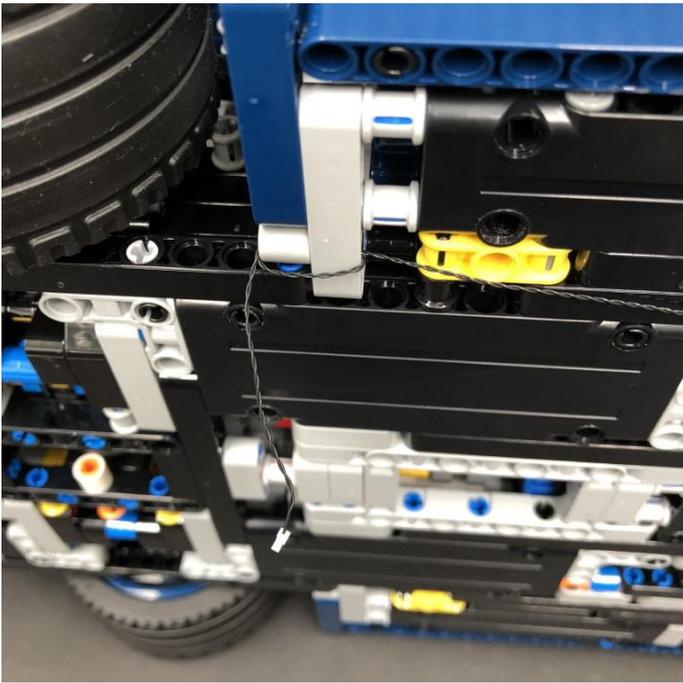
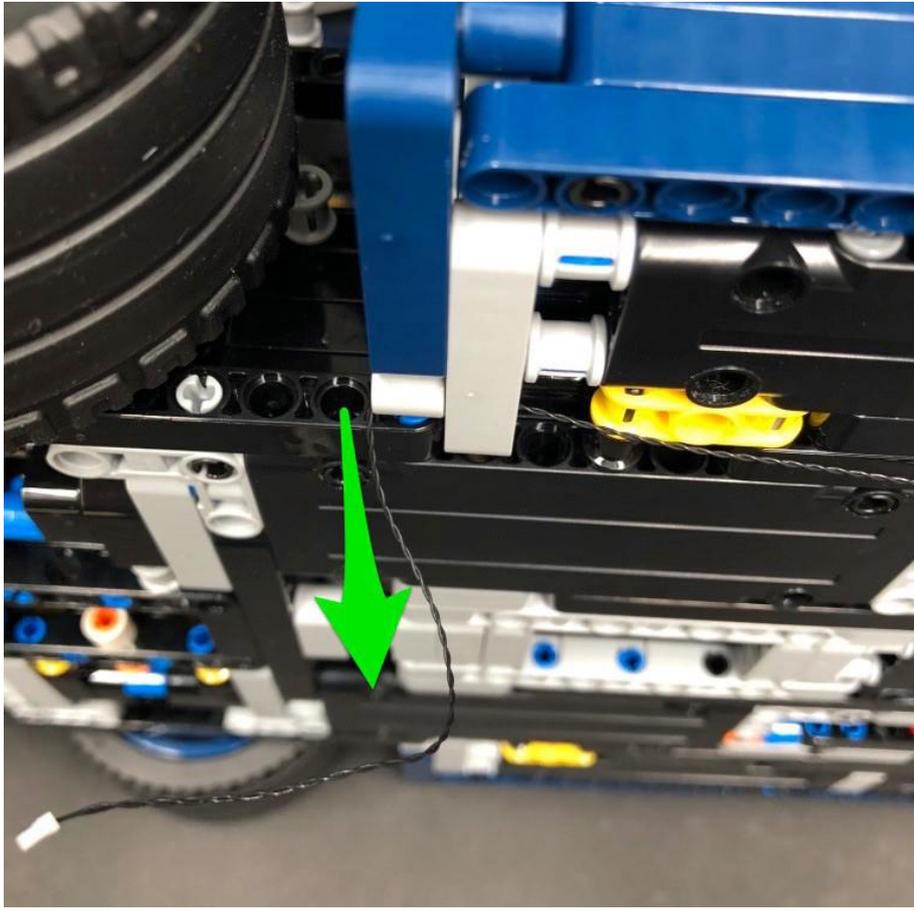


15.) Pull the cable all the way out toward the back and then thread it through the hole of the following light grey technic brick

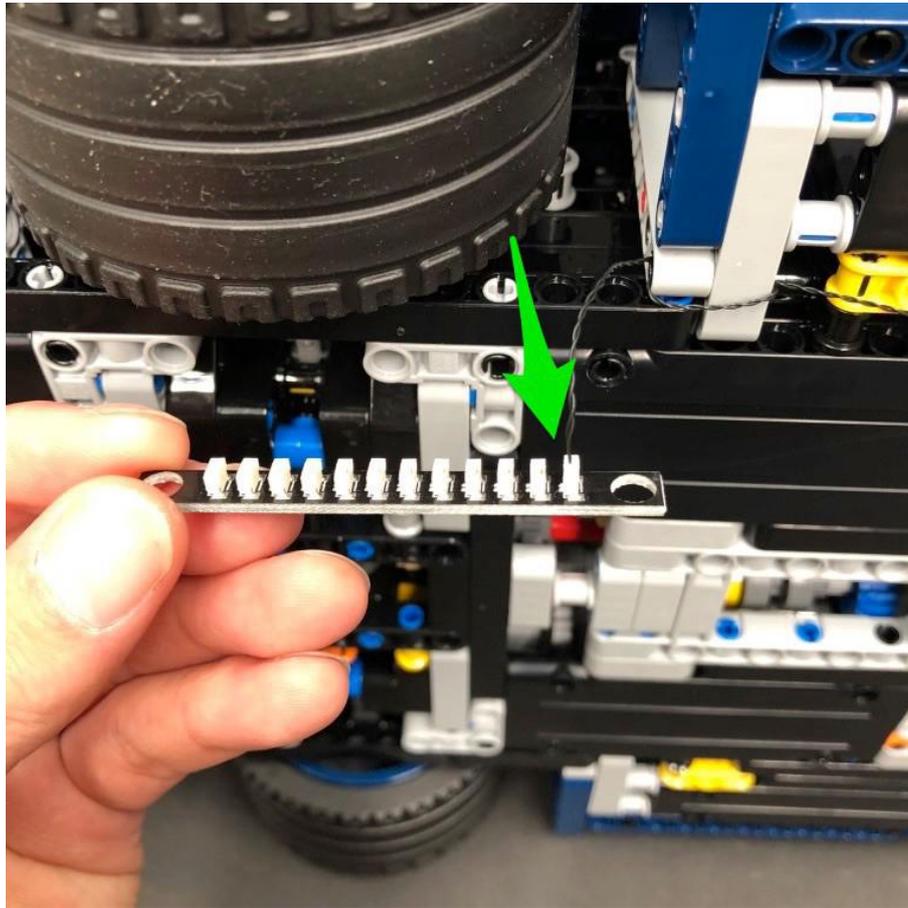




16.) Pull the cable all the way out and then pull it down tight before looping it through the same hole again.



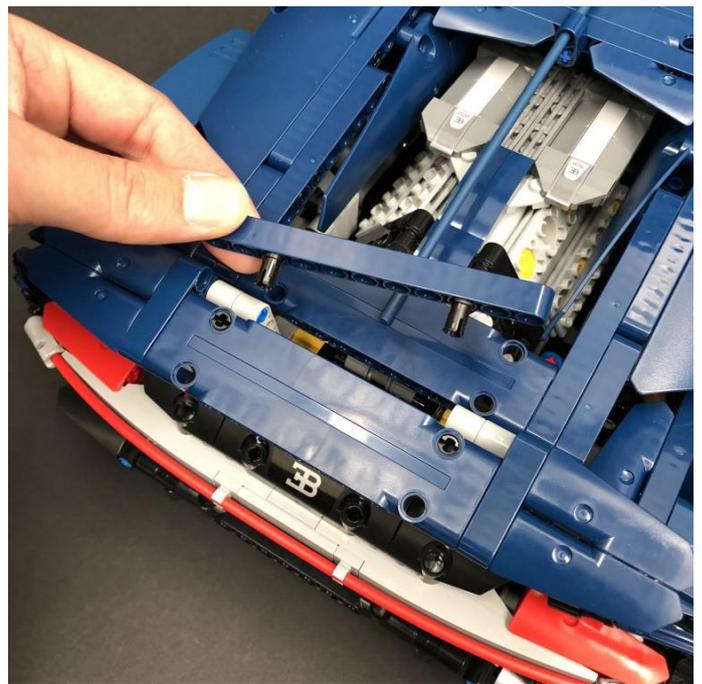
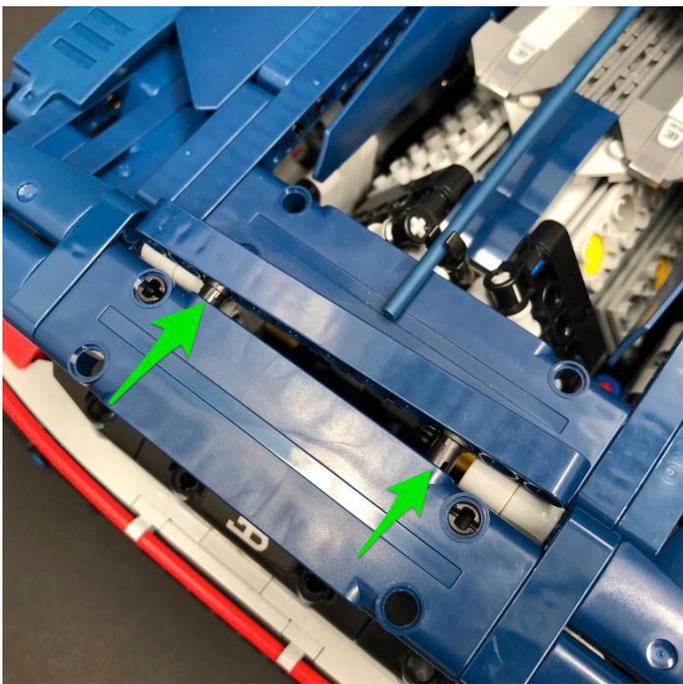
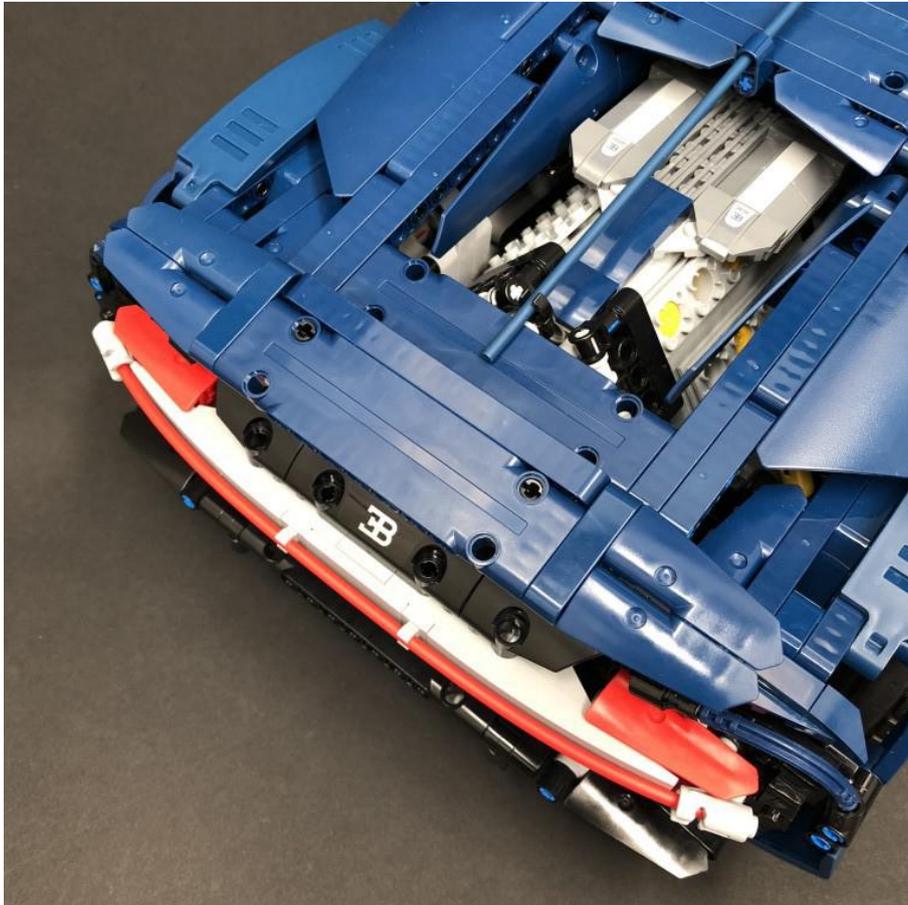
Connect the cable to the second 12-Port Expansion Board



17.) Check that the AA Battery Pack is neatly seated inside the Bugatti and that there is no visible cabling before closing the passenger door.



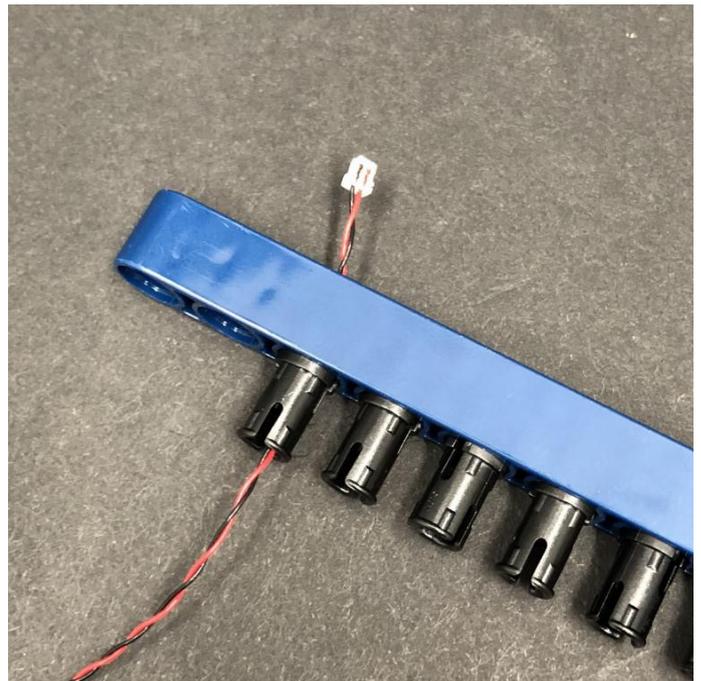
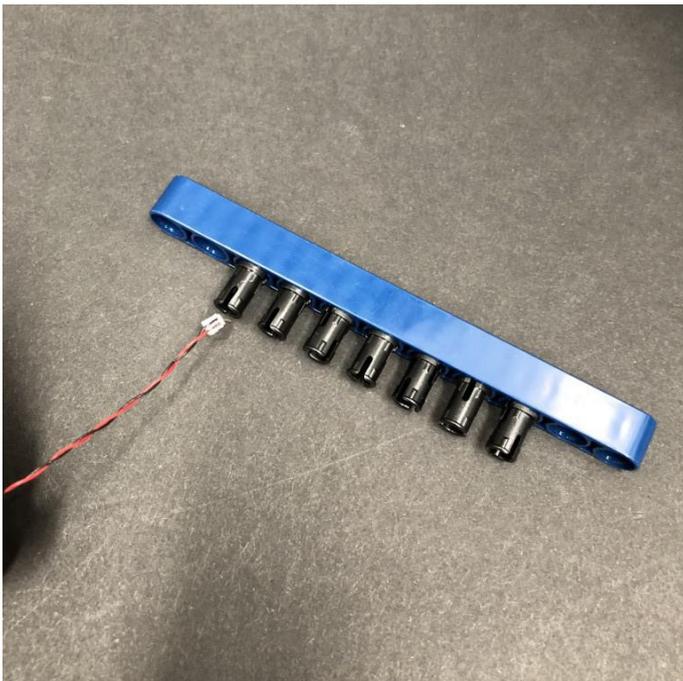
18.) Disconnect the blue technic brick from the back of the spoiler at the two black pins as shown below

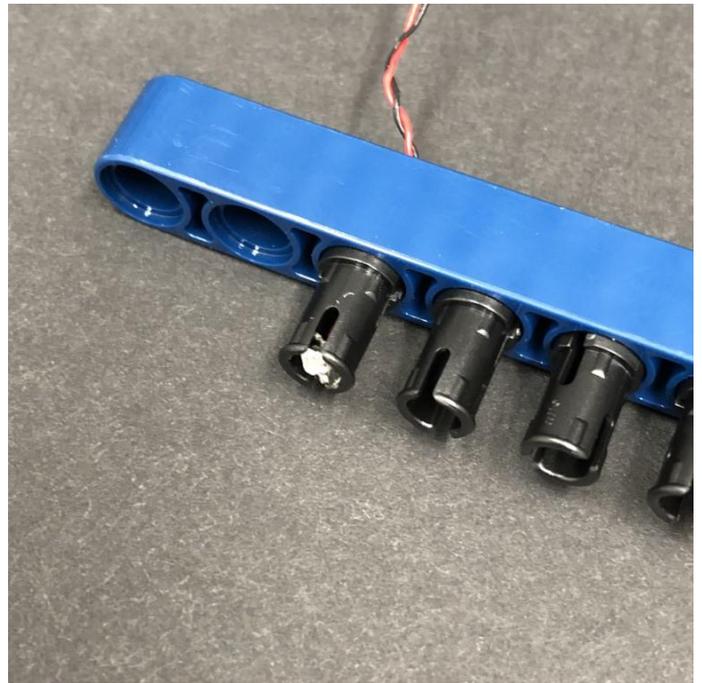
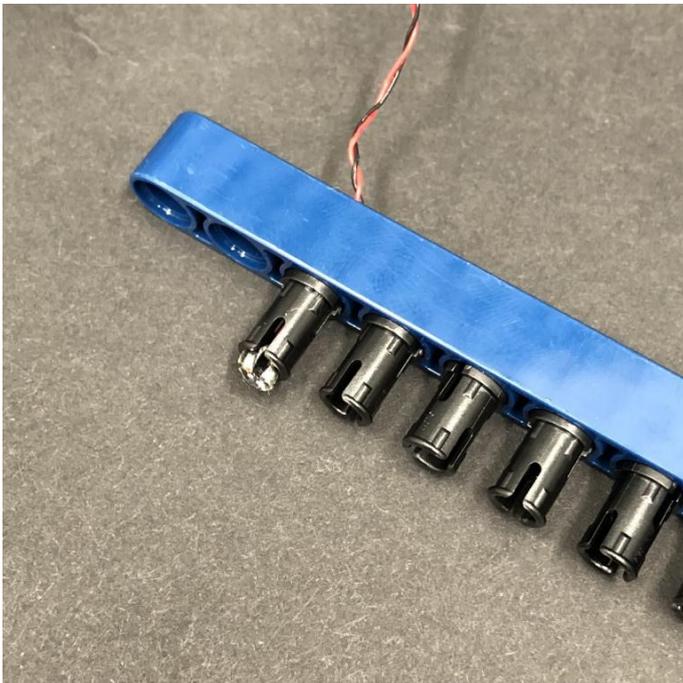


Take the 5x Provided Lego Technic Pin with Friction Ridges Lengthwise WITH Center Slots (Black) and connect them to the 5 inner holes of the blue technic brick

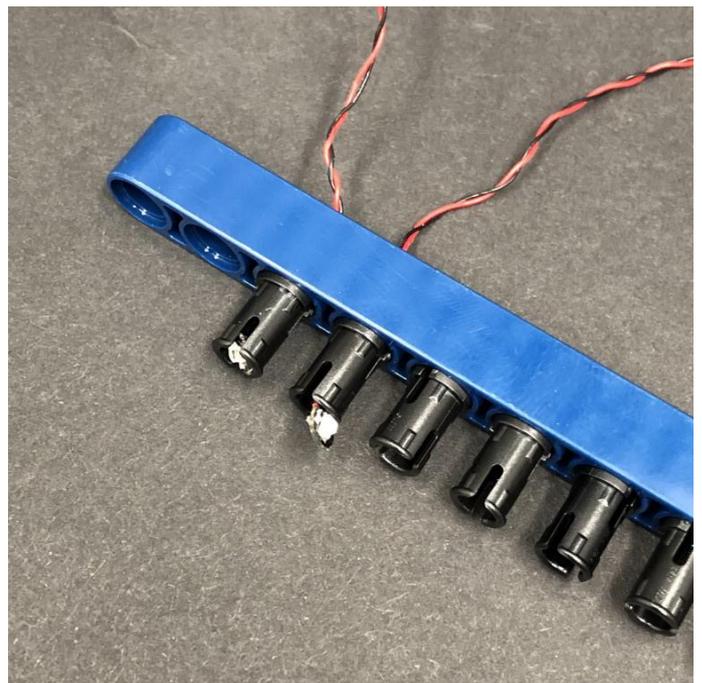
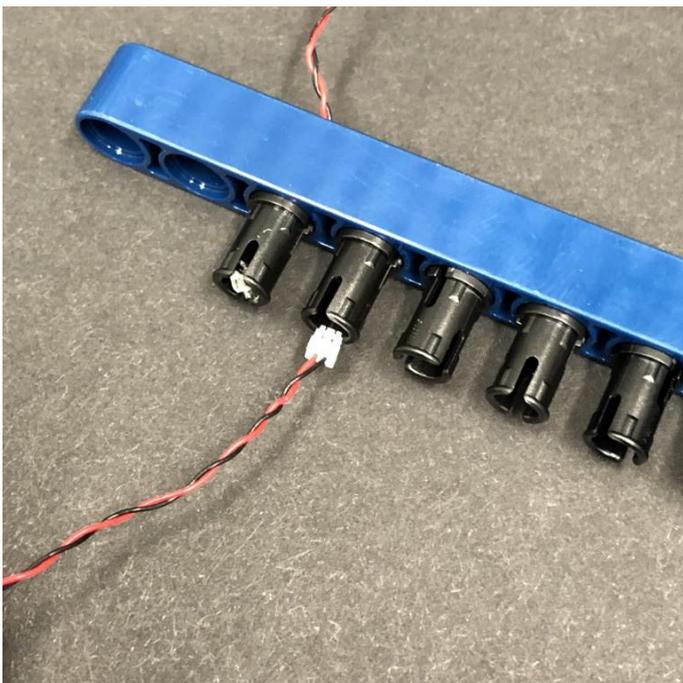


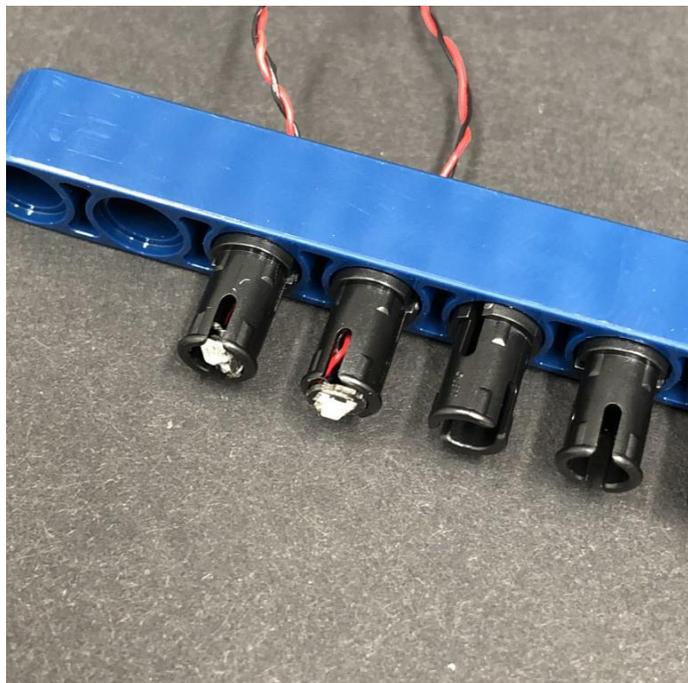
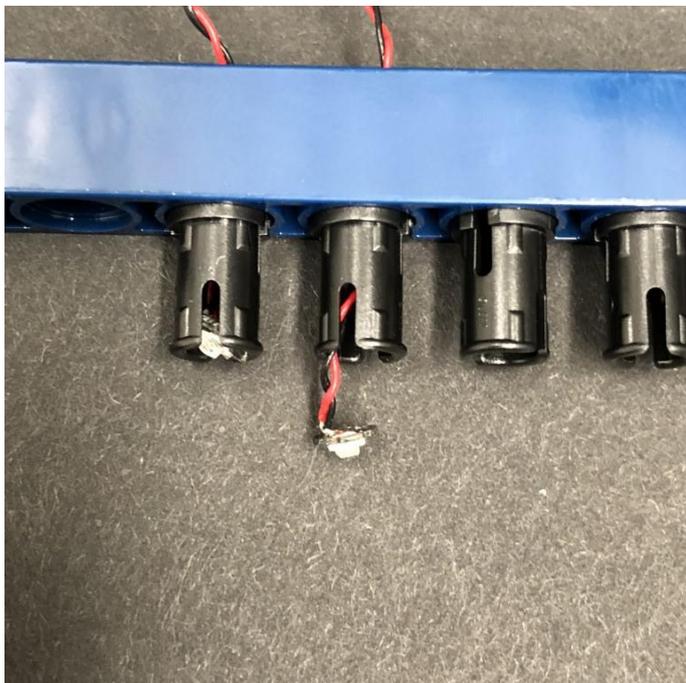
19.) Take a Red 30cm Dot Light and thread the connector end of the cable through the first technic pin. Thread it all the way through and then slightly bend the Dot Light on a 90 degree angle before pushing it inside the technic pin.



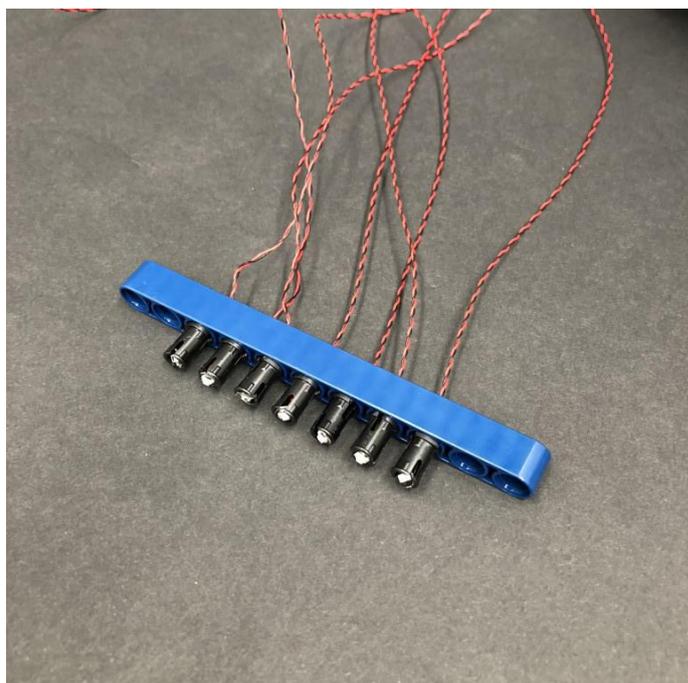
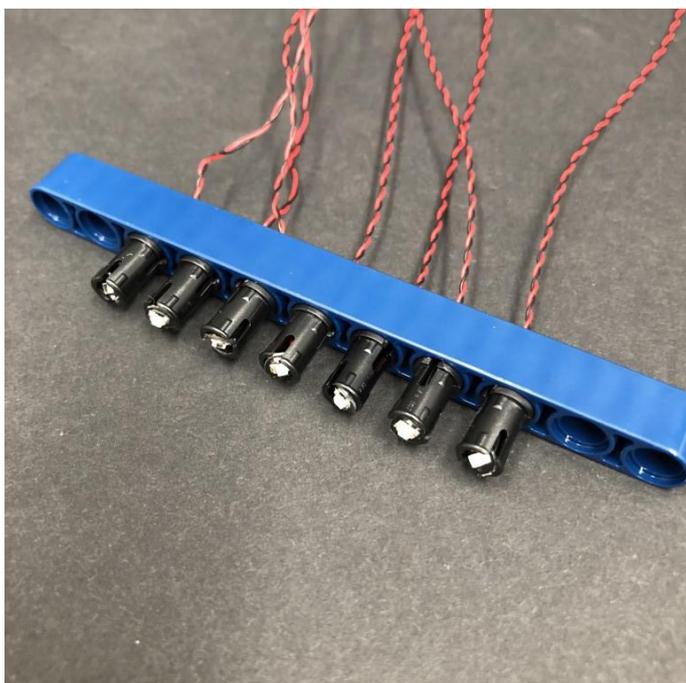


Take another Red 30cm Dot Light and thread it through the second technic pin. Thread it all the way through and then slightly bend the Dot Light on a 90 degree angle before pushing it inside the technic pin.

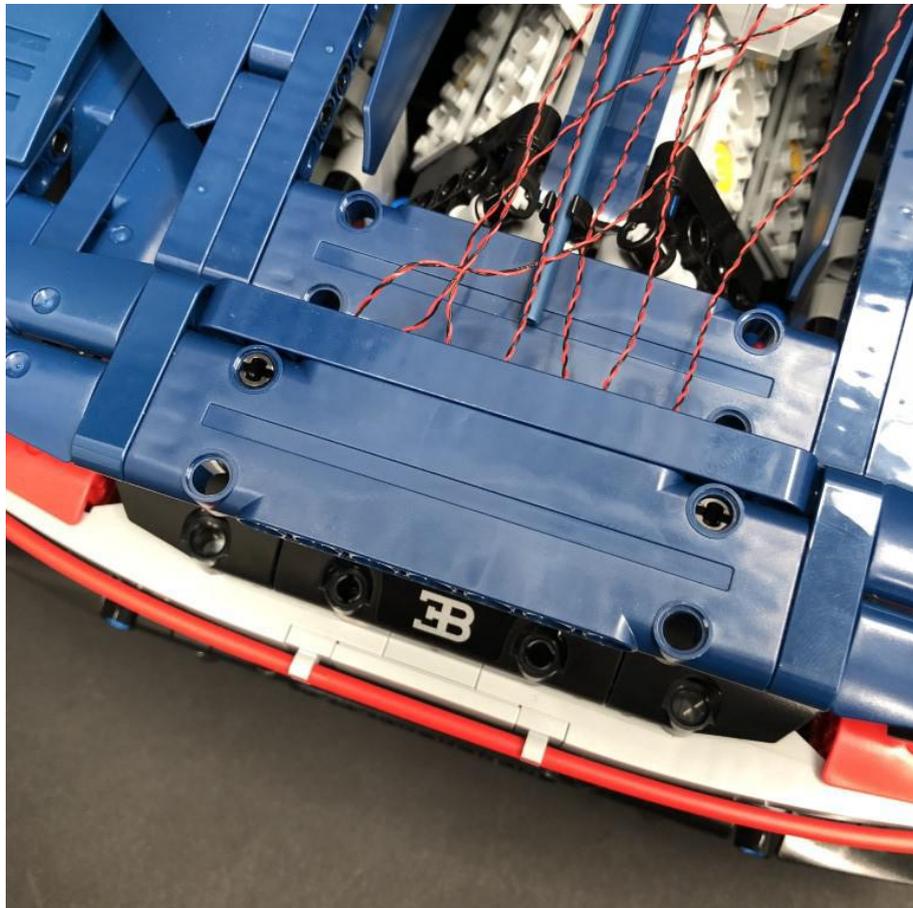
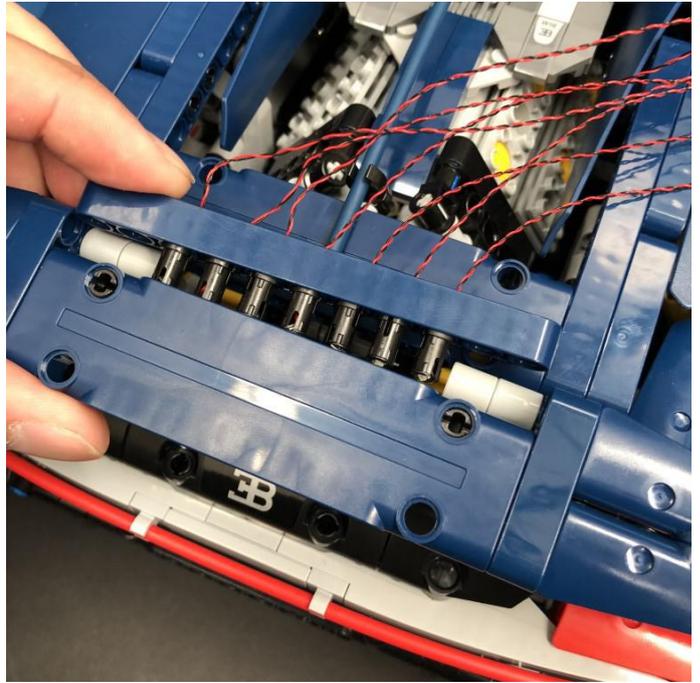
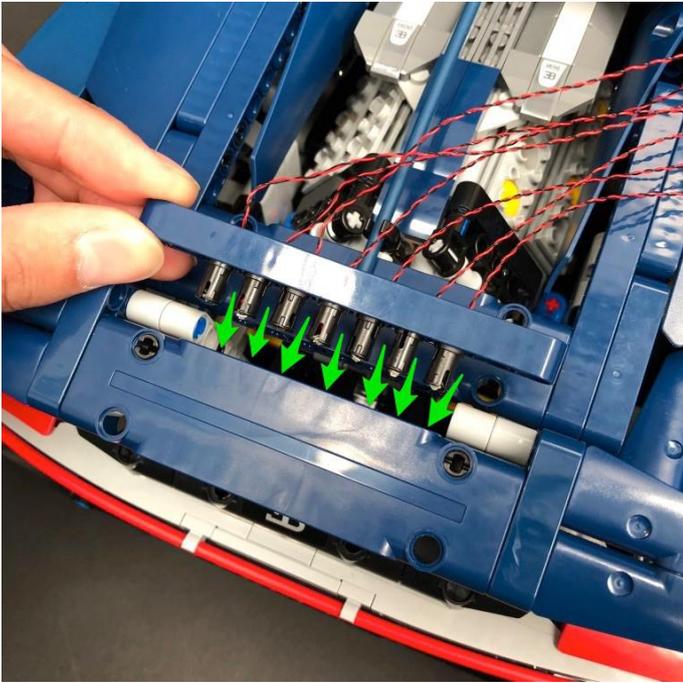




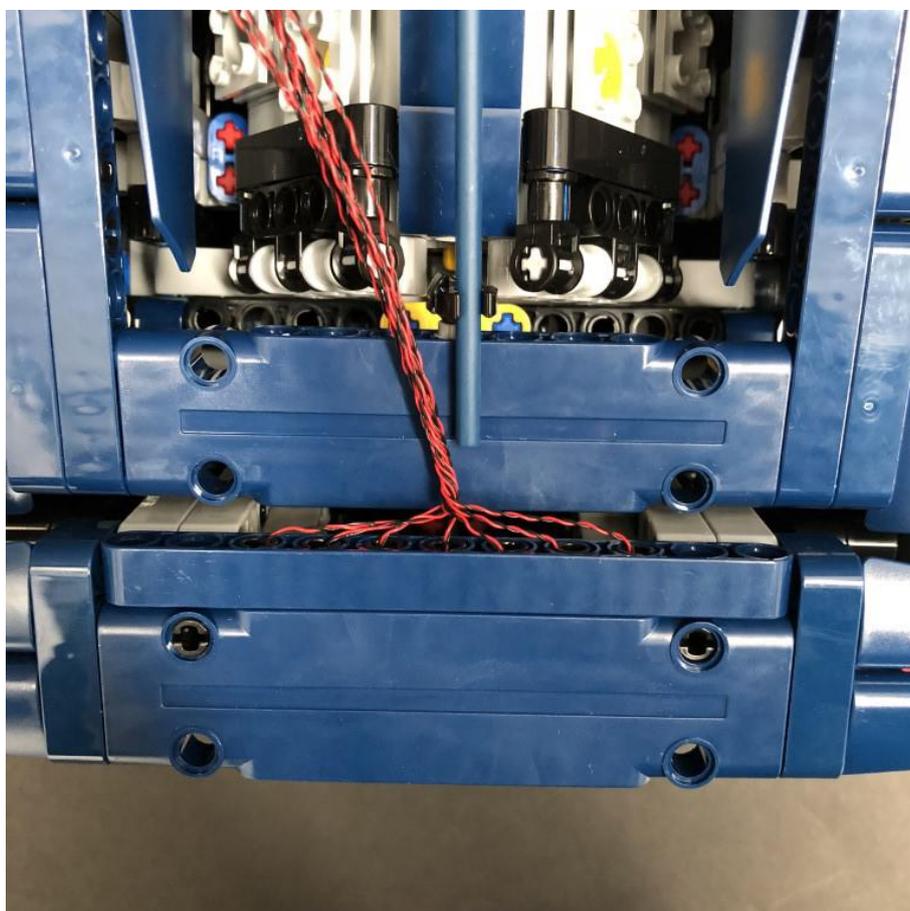
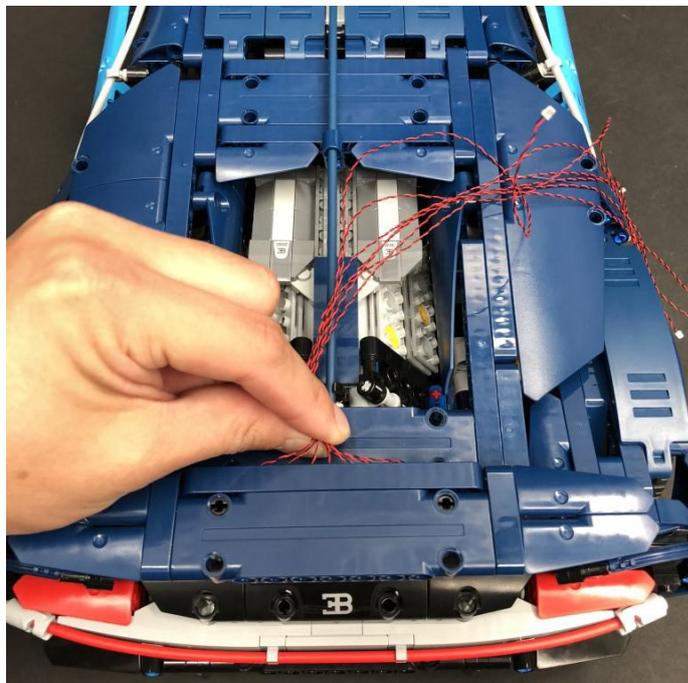
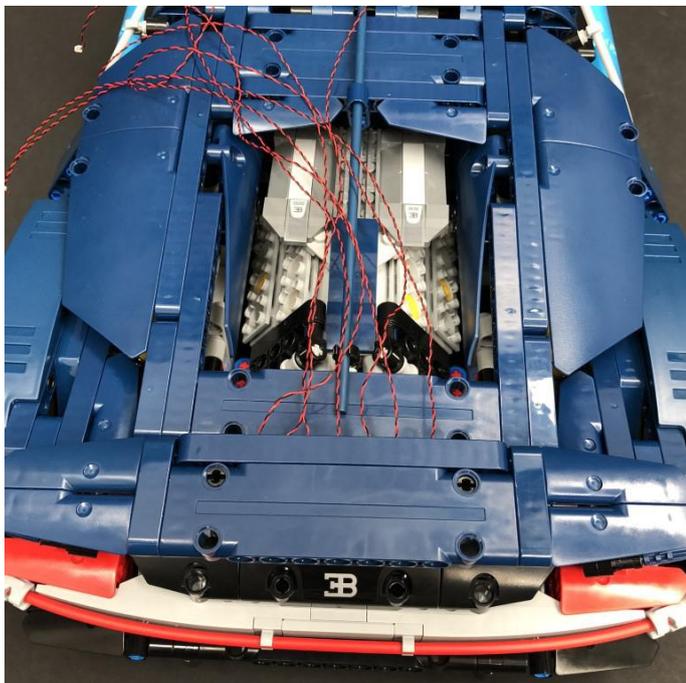
Repeat this process to install the remaining 5x Red 30cm Dot Lights to the rest of the technic brick.



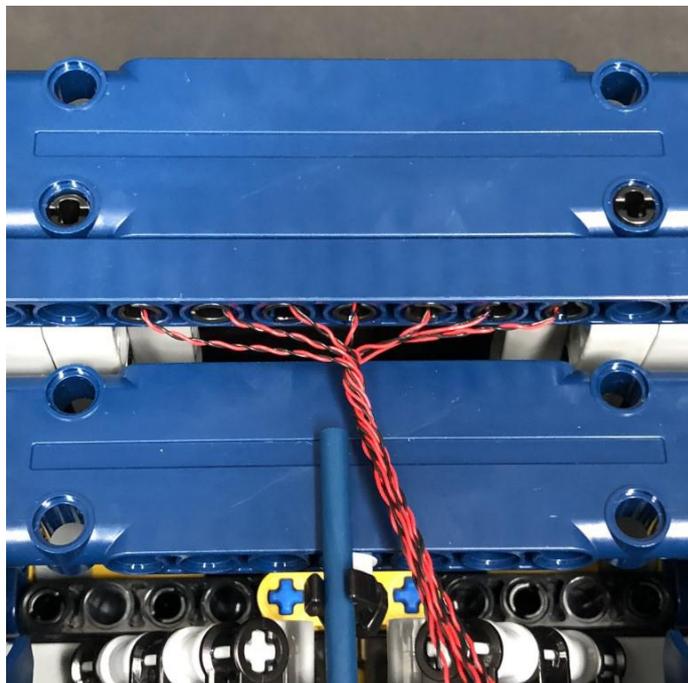
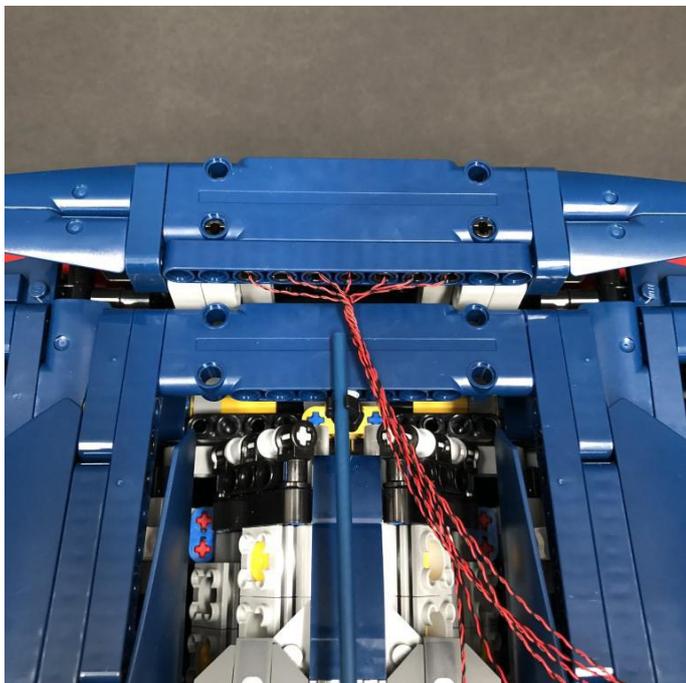
20.) Reconnect the technic brick to the back of the spoiler ensuring all technic pins are carefully connected.



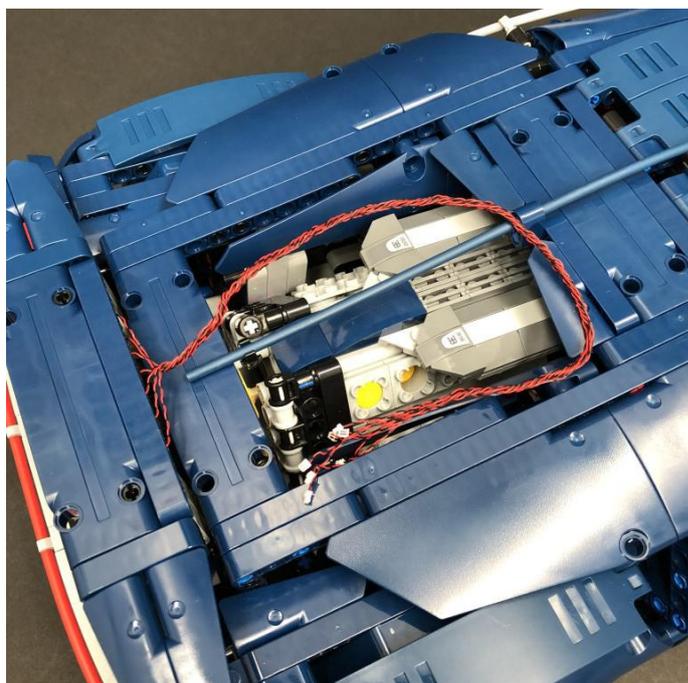
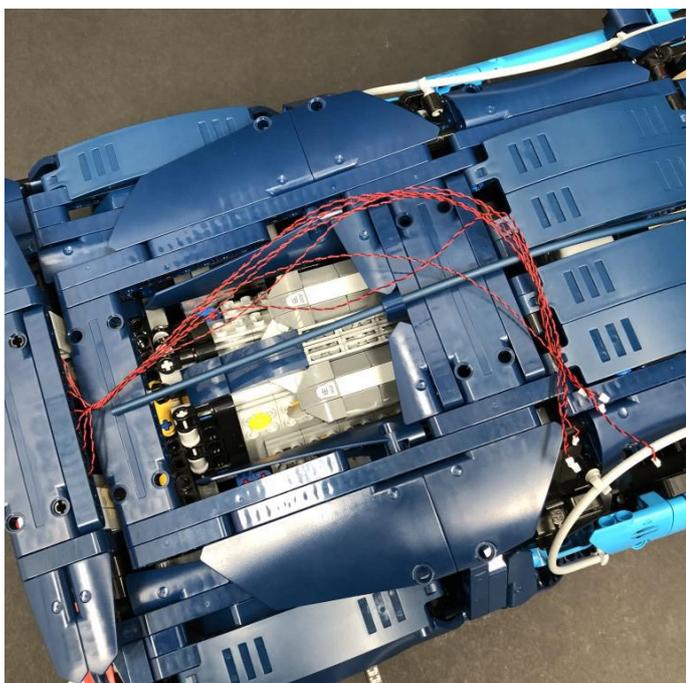
Group all the cables closest to the back of the spoiler and then twist them around each other to tighten and secure them together.



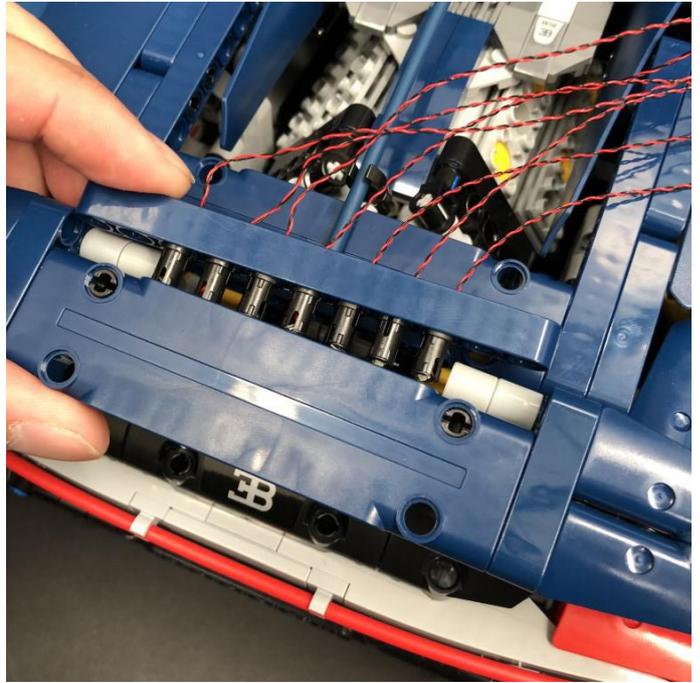
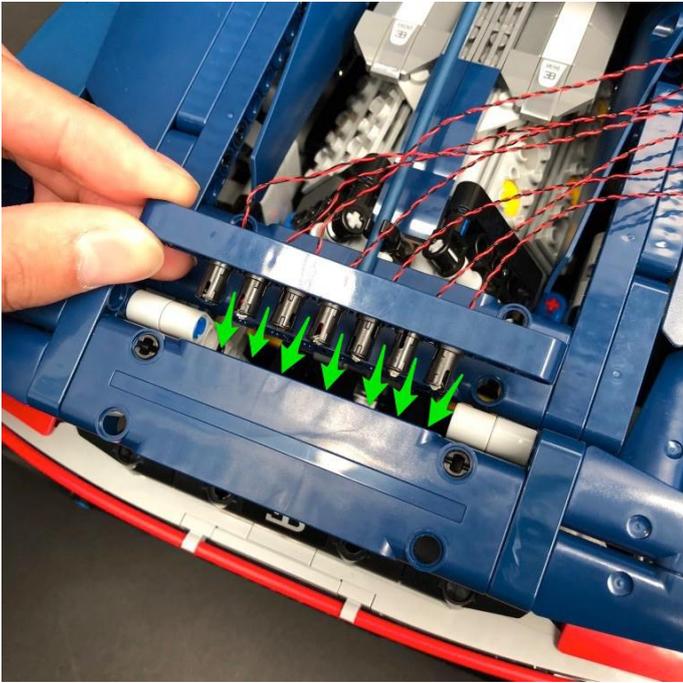
Turn the vehicle around and ensure the cables are twisted right to the edge of the spoiler as shown below.



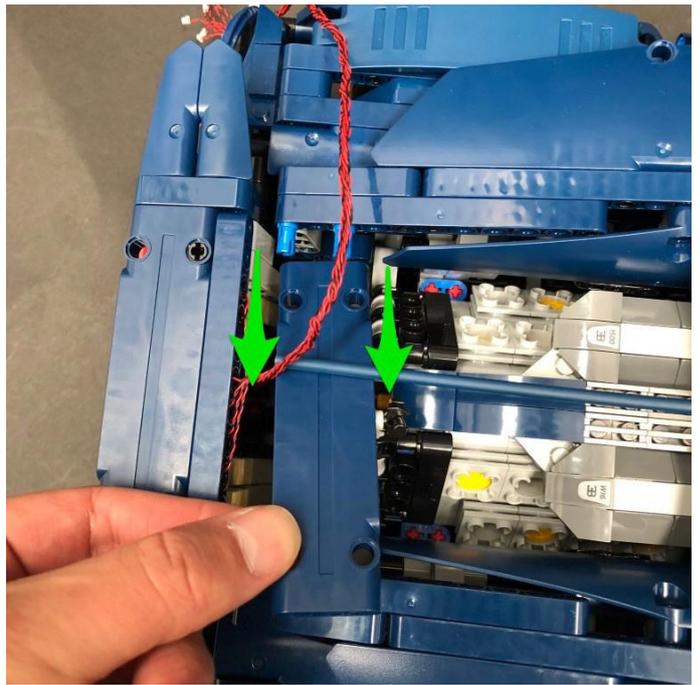
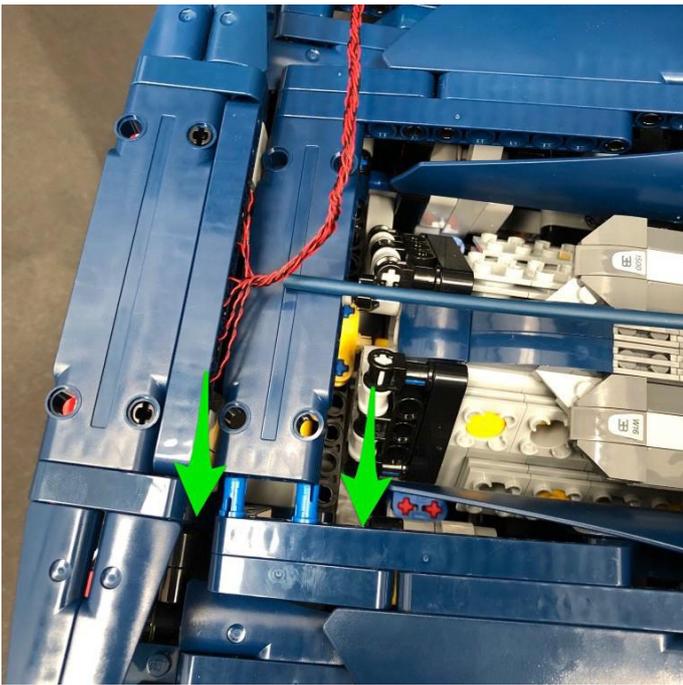
Continue to twist all the cables around each other all the way to the end to form one larger cable.

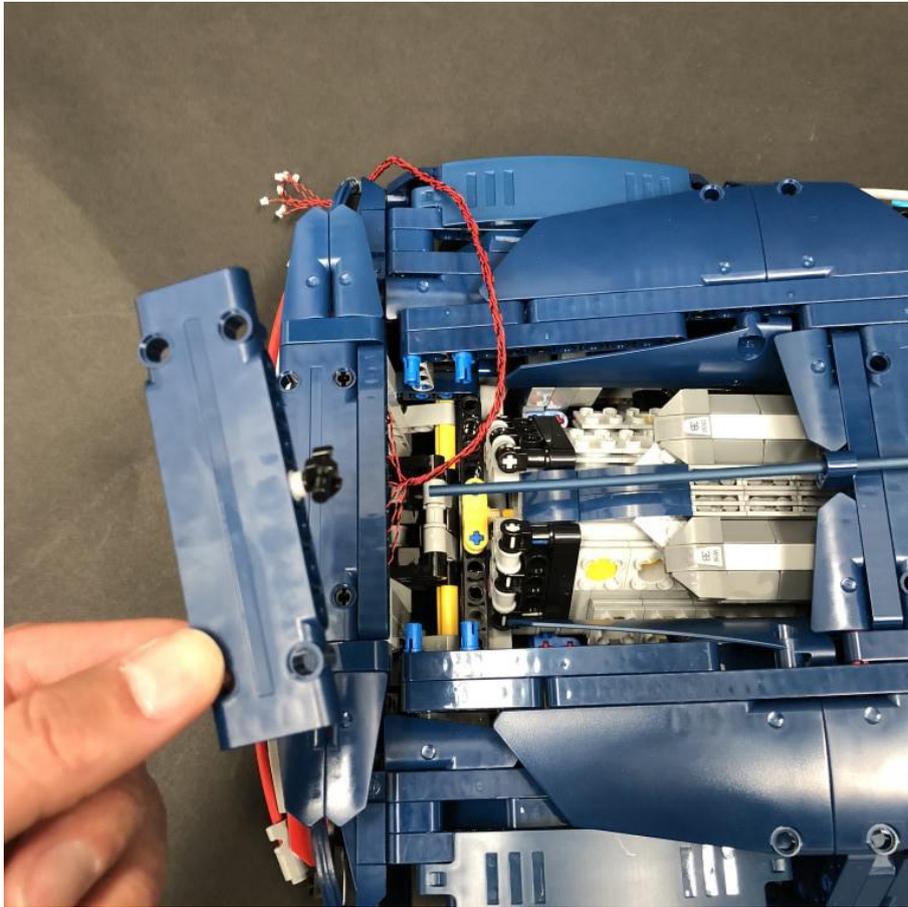


21.) Flip the Bugatti over onto it's side and then disconnect the back right wheel.

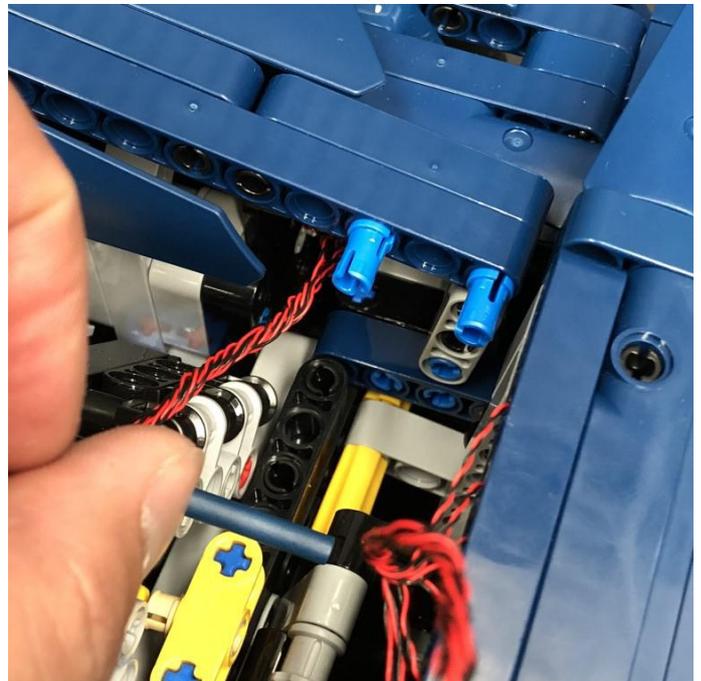
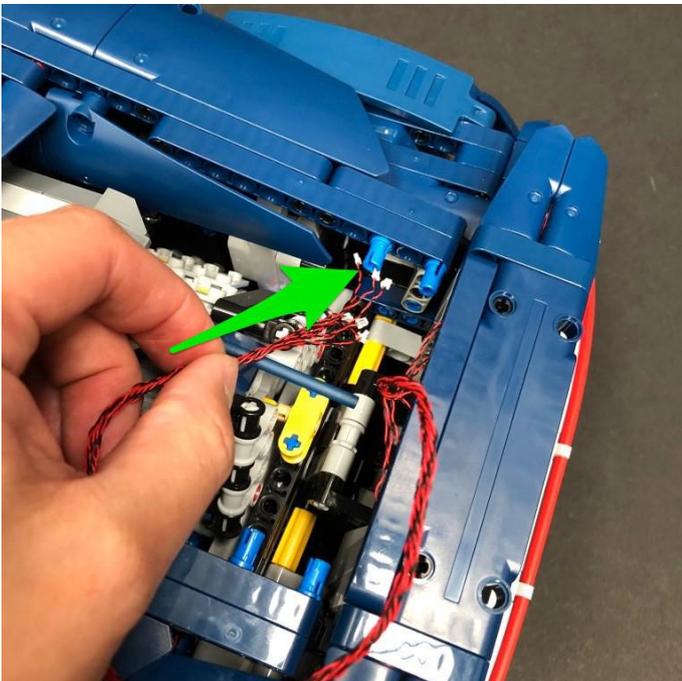


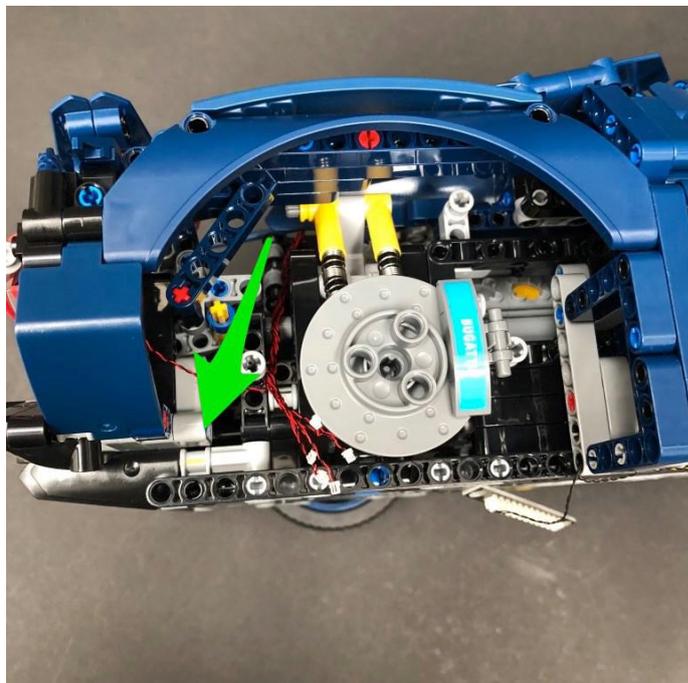
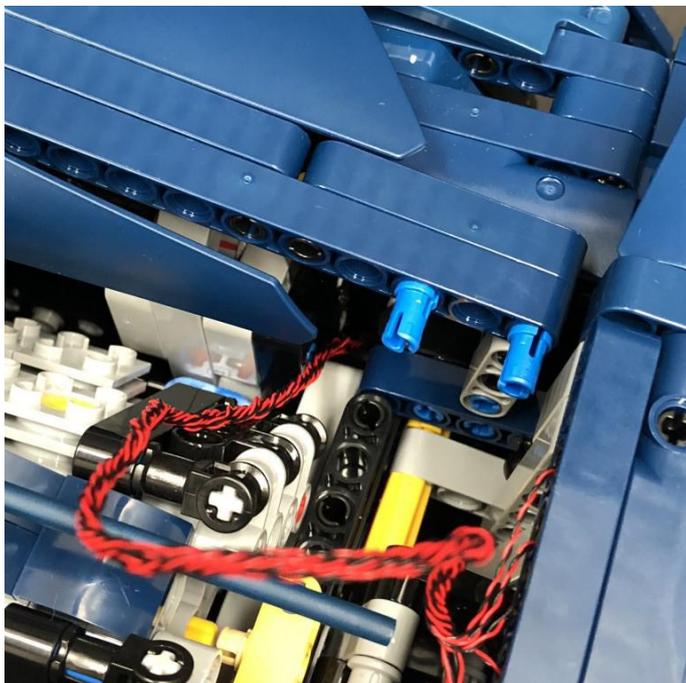
Flip the Bugatti back over and then unclip the blue technic bar and then remove the flat technic piece along the back of the vehicle by disconnecting the two pins from each side.



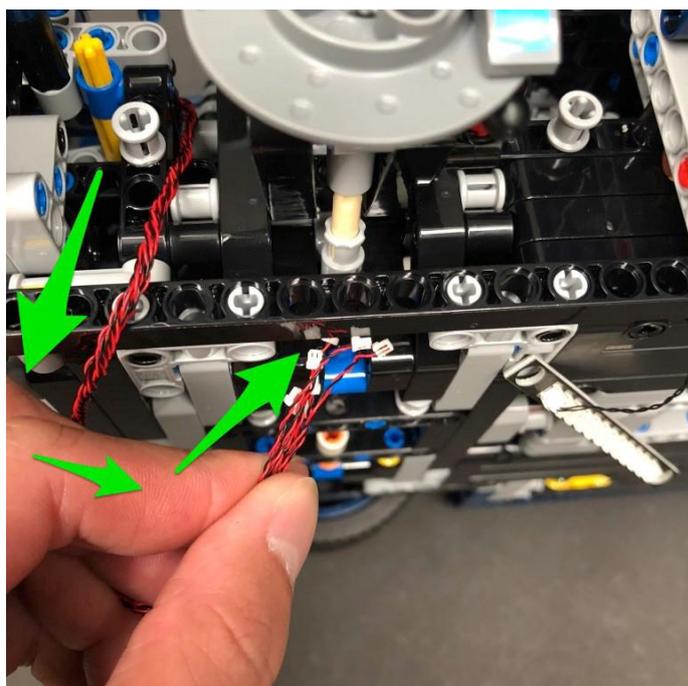
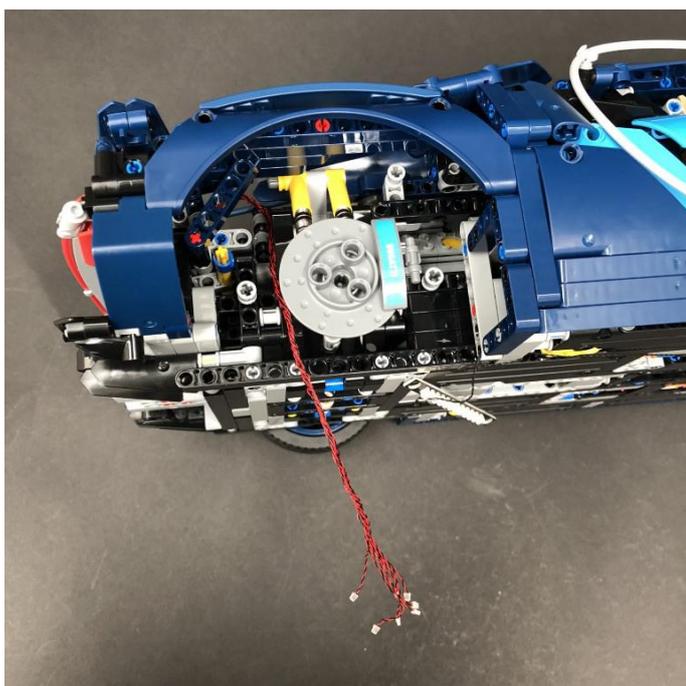


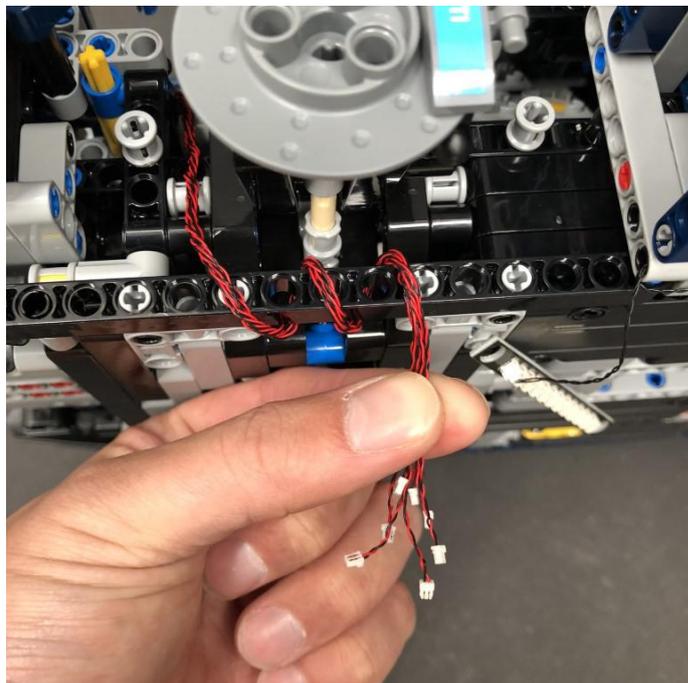
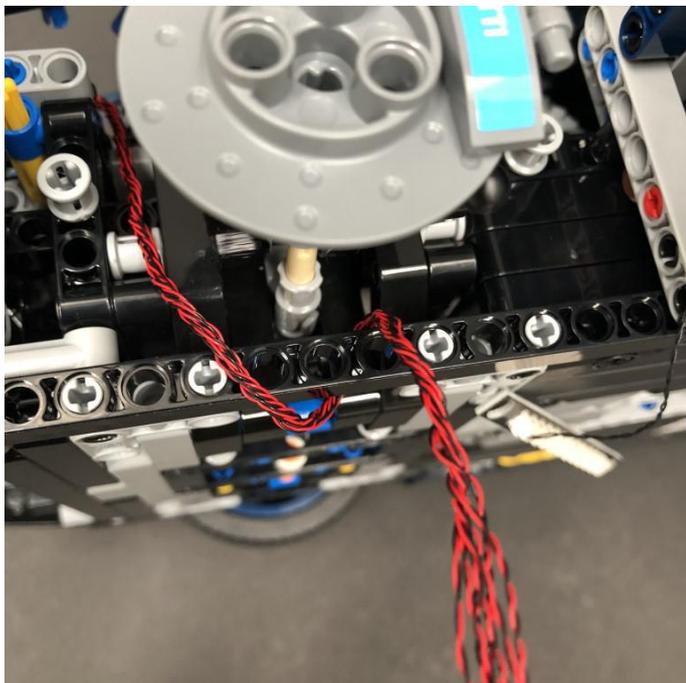
Turn the vehicle around so we are facing the back, then thread the group of cables down the space that leads to where the back wheel was.



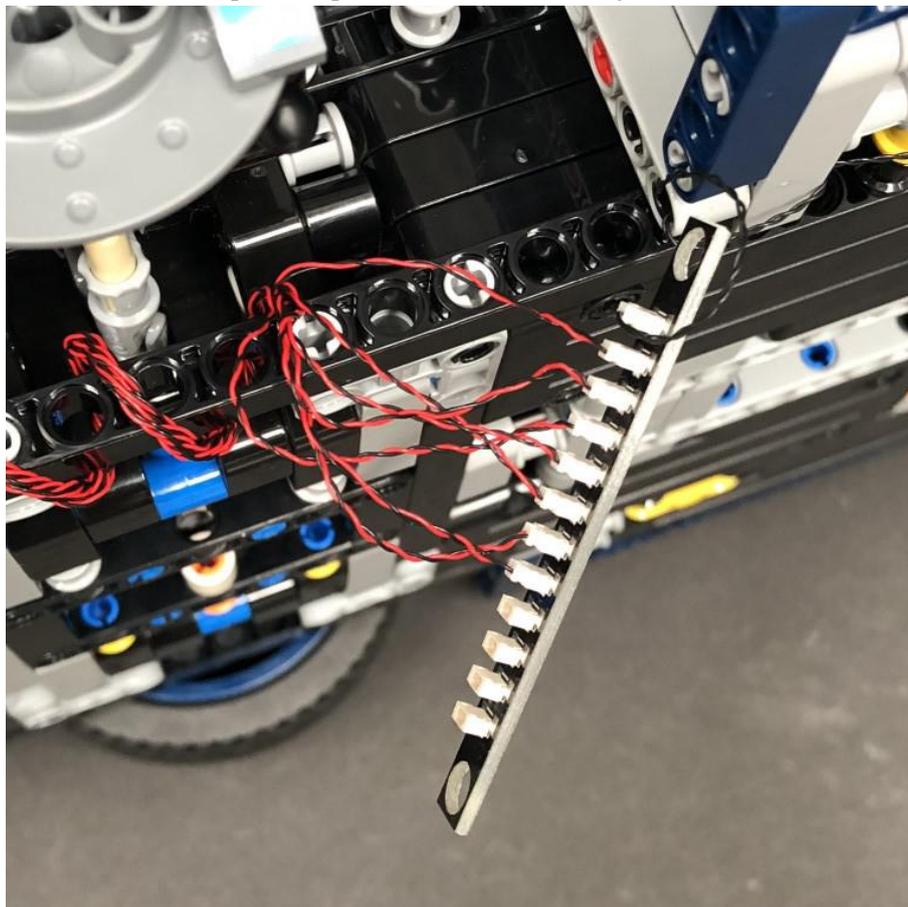


22.) Pull the cable all the way out from underneath and then loop it up around the black technic brick twice to eliminate excess cable.

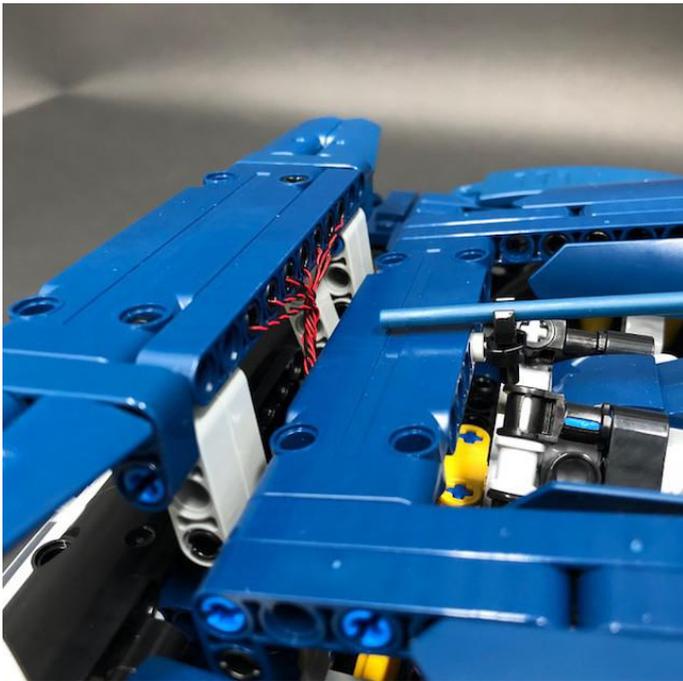
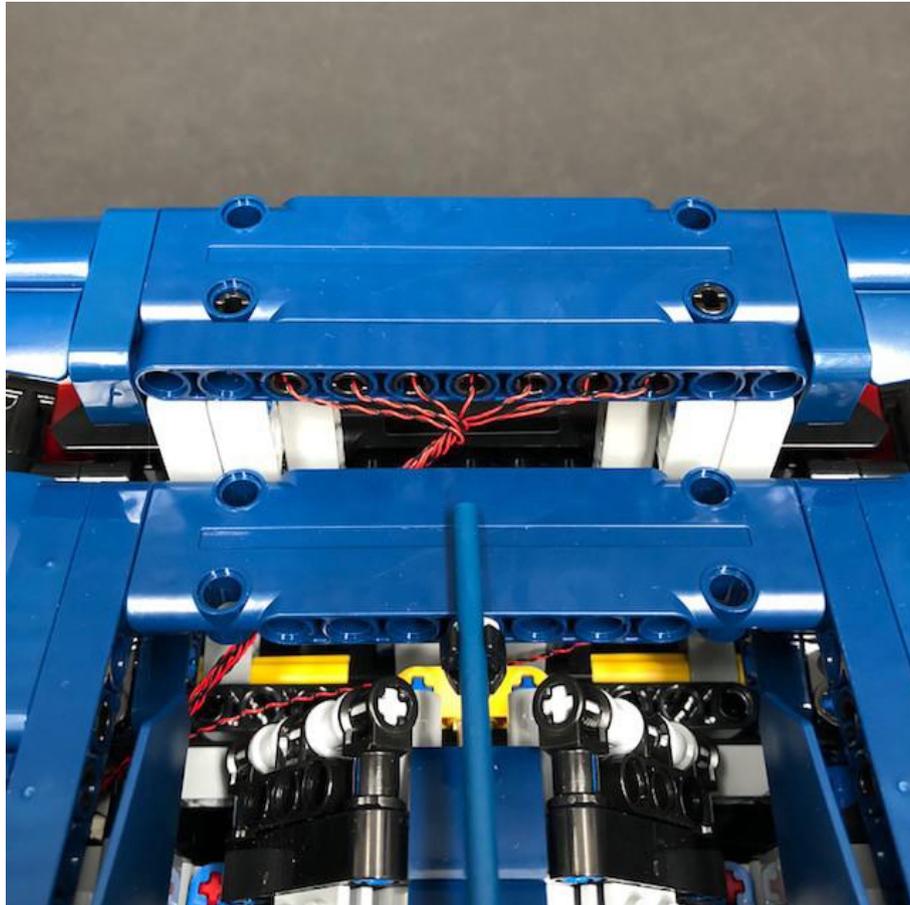




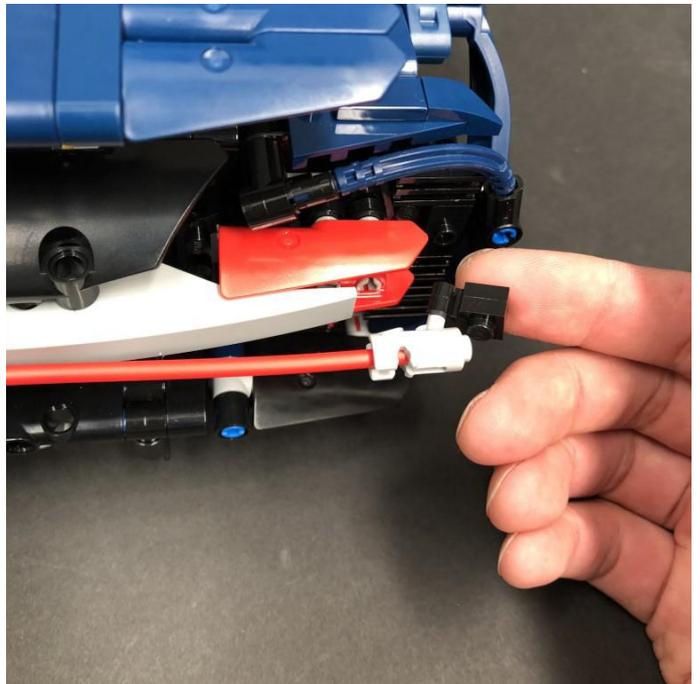
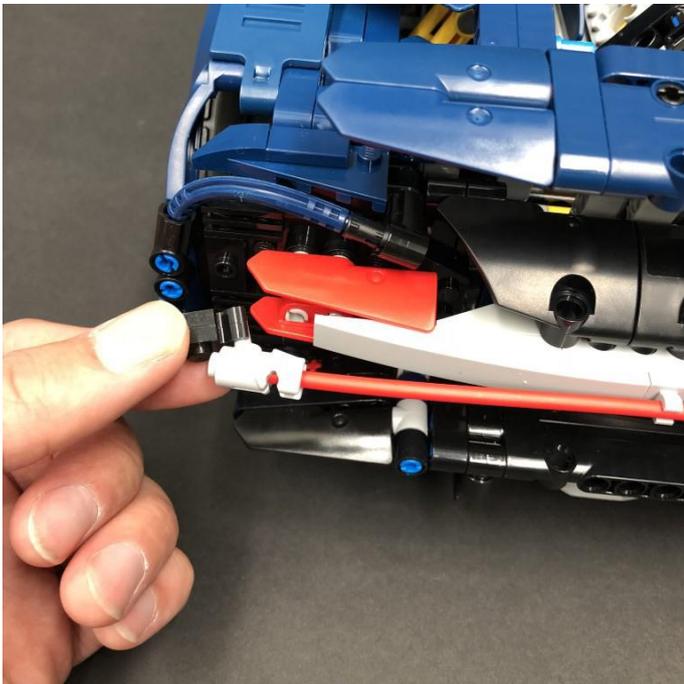
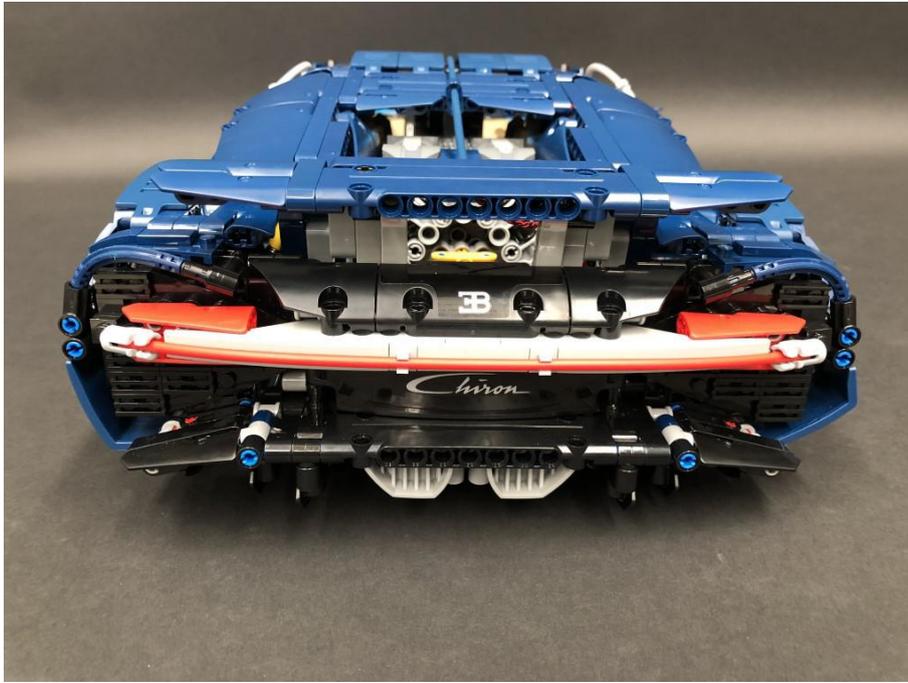
Connect all seven cables to the 12-port Expansion Board nearby.

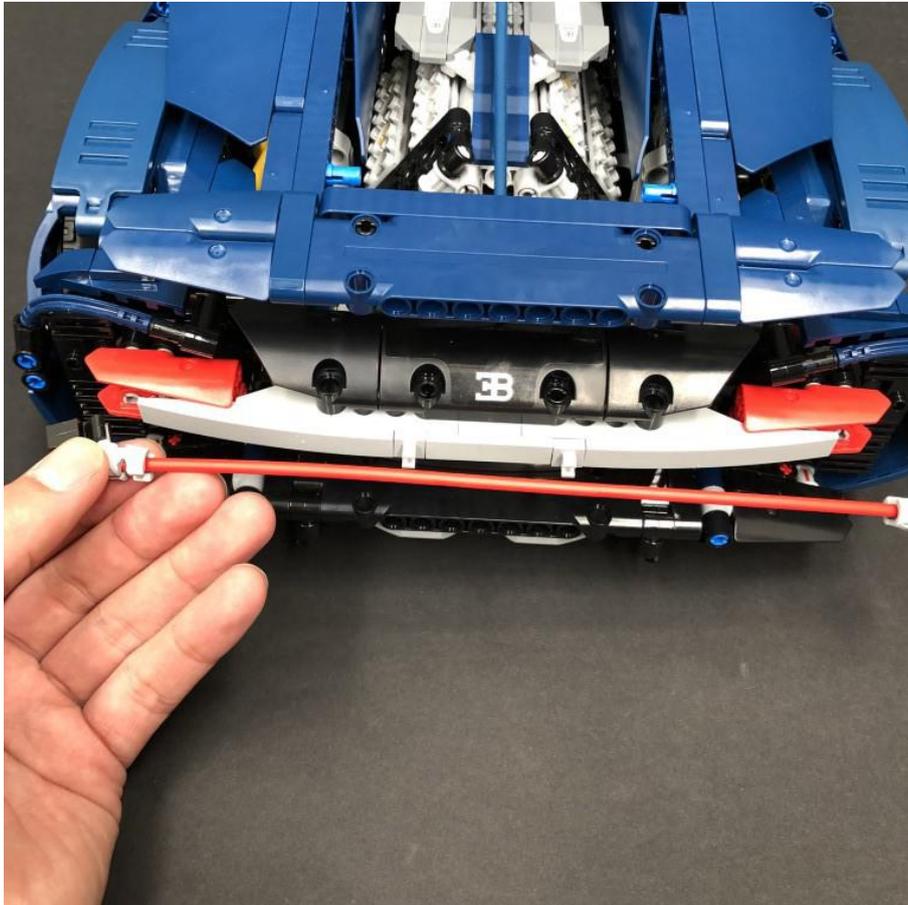


Turn the Bugatti back over and then ensure that the cables from the back of the spoiler are pushed flat so that the spoiler can easily come up and down without the wires getting caught.

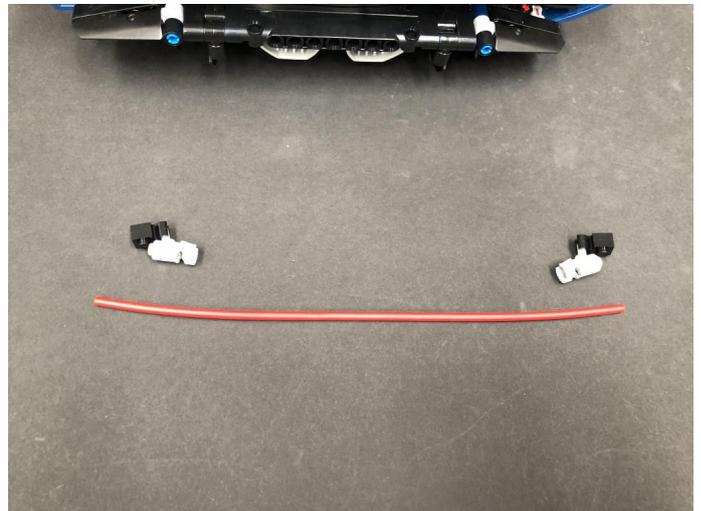
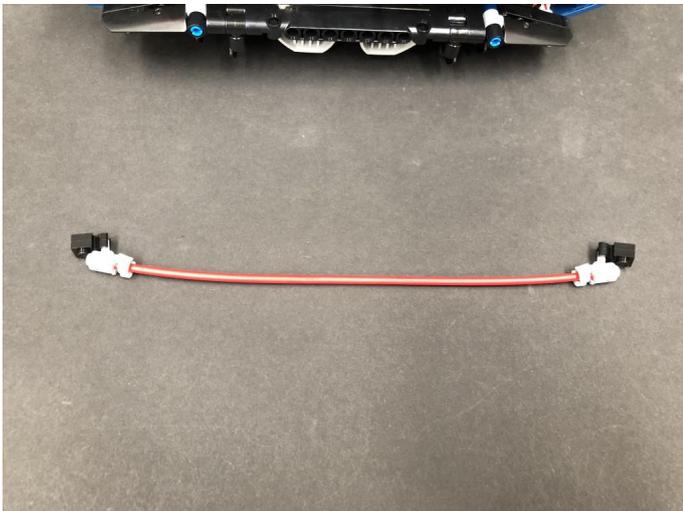


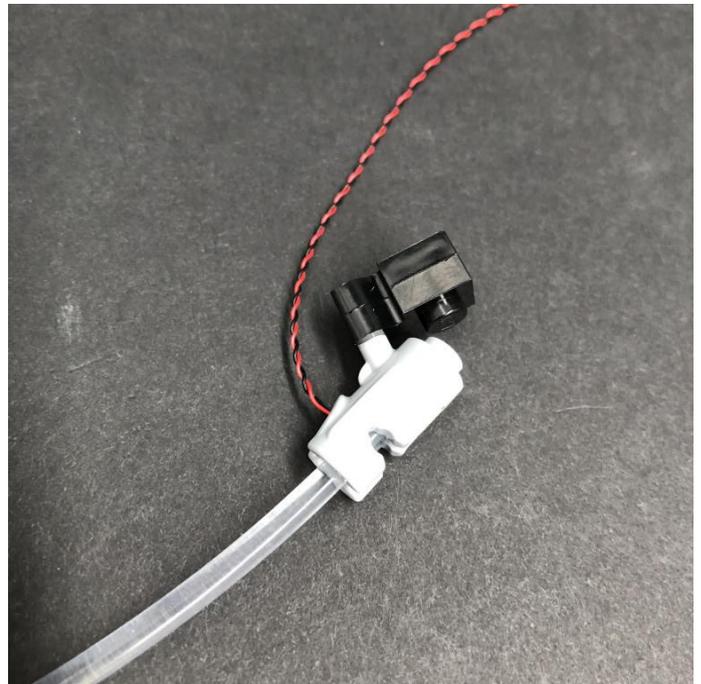
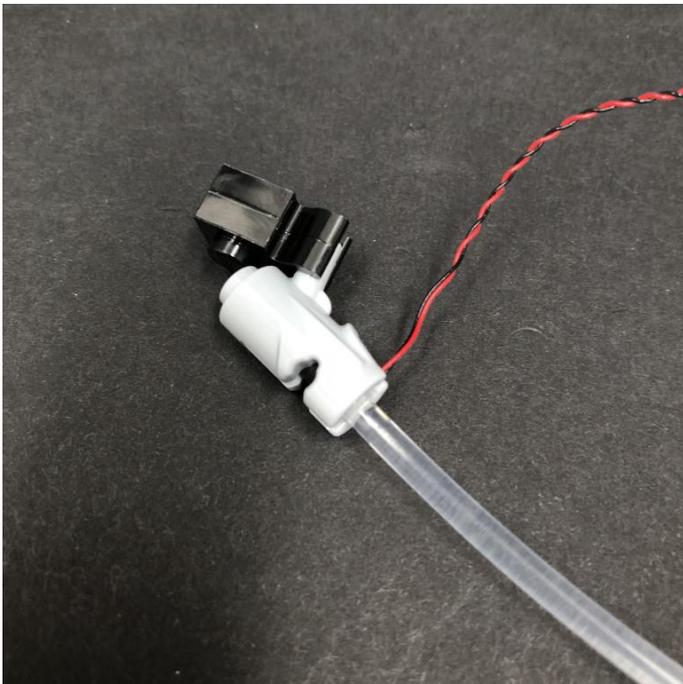
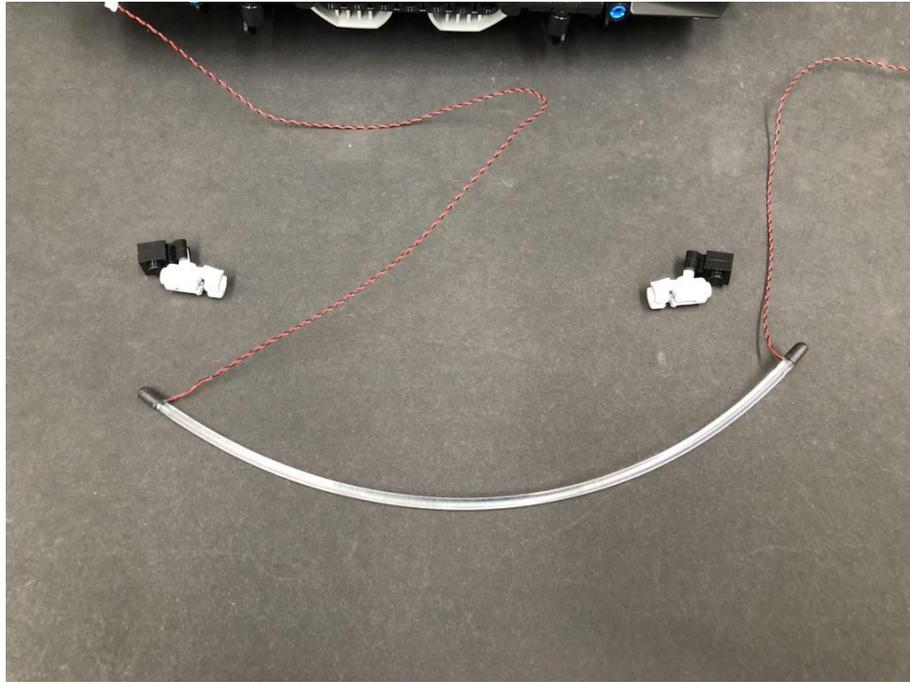
23.) Disconnect the Red Technic Bar from back by disconnecting from each side and then unclipping from the two centre clips.



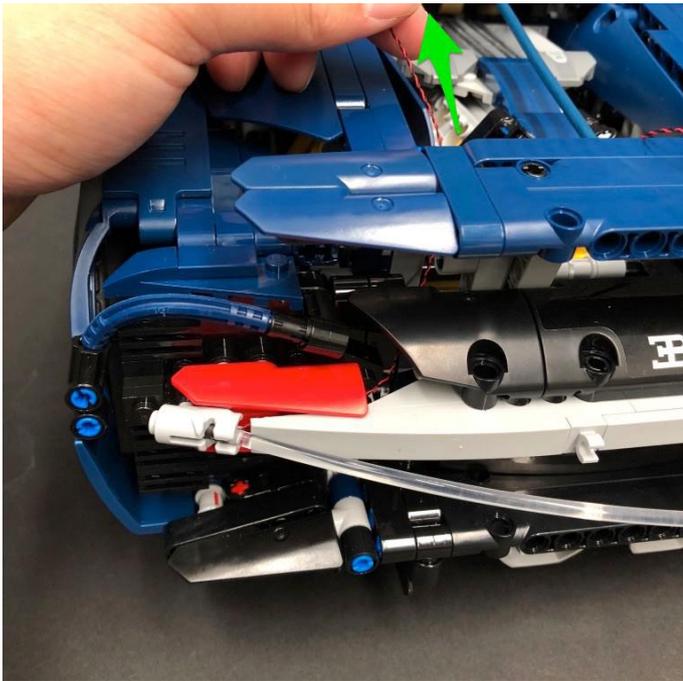


Remove the Red Technic Bar from the two side pieces then replace it with the provided Red Light Bar 20cm ensuring the cables are laid in the slots of the light grey pieces.

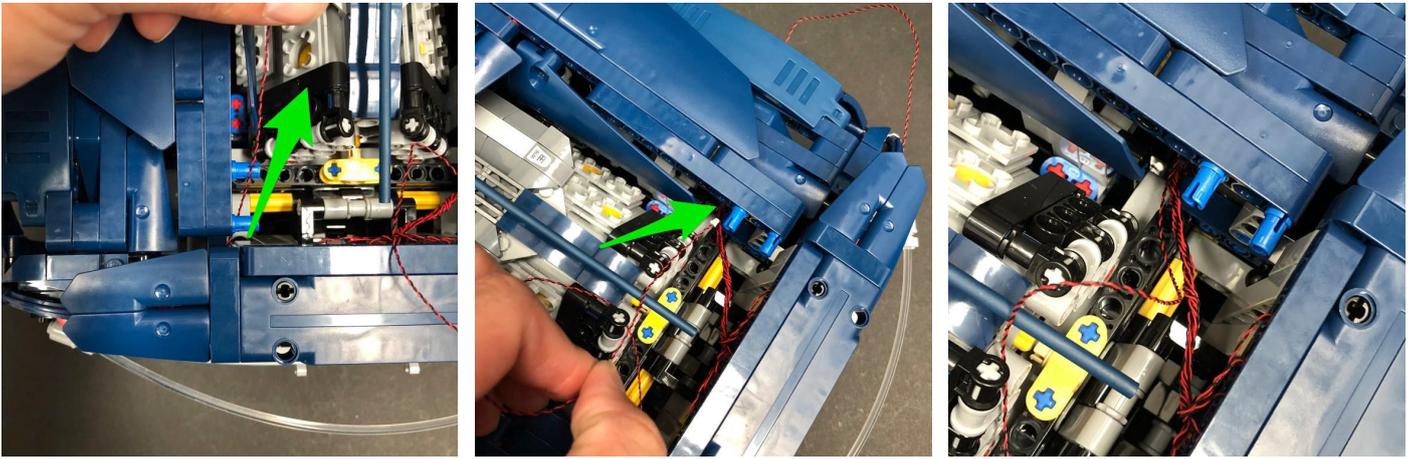




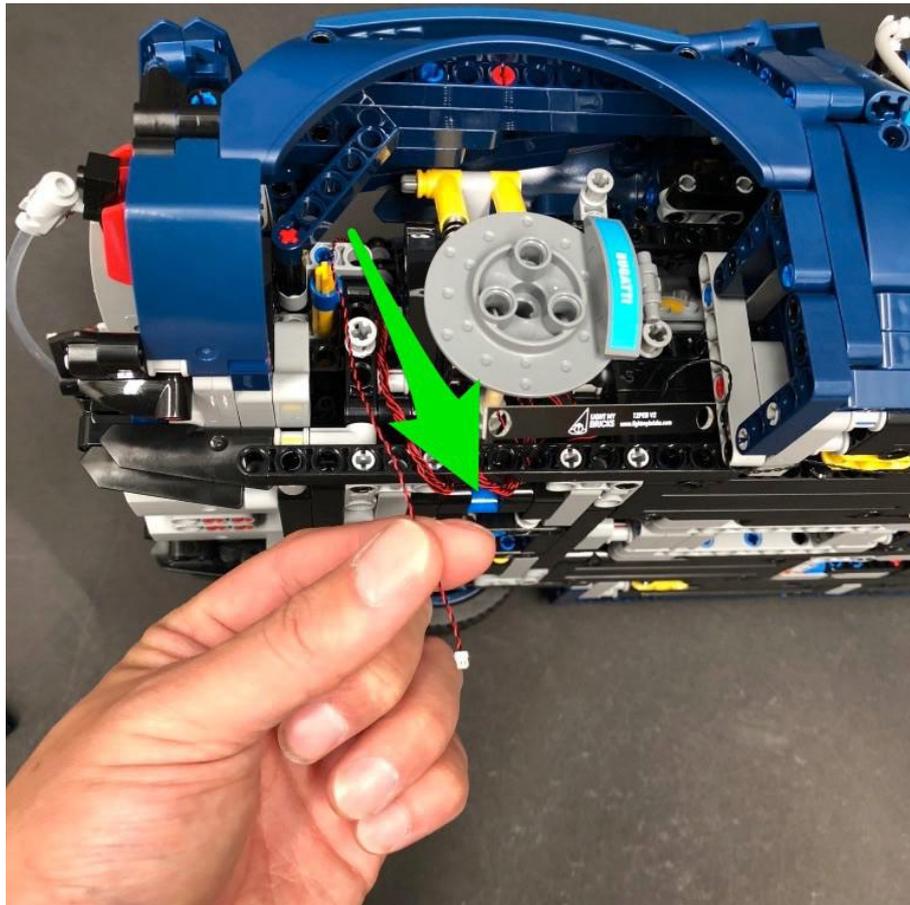
24.) Connect the left side of the red light bar to the back of the Bugatti. Thread the cable behind the light grey piece and then thread it up the space which leads to the other side of the spoiler.



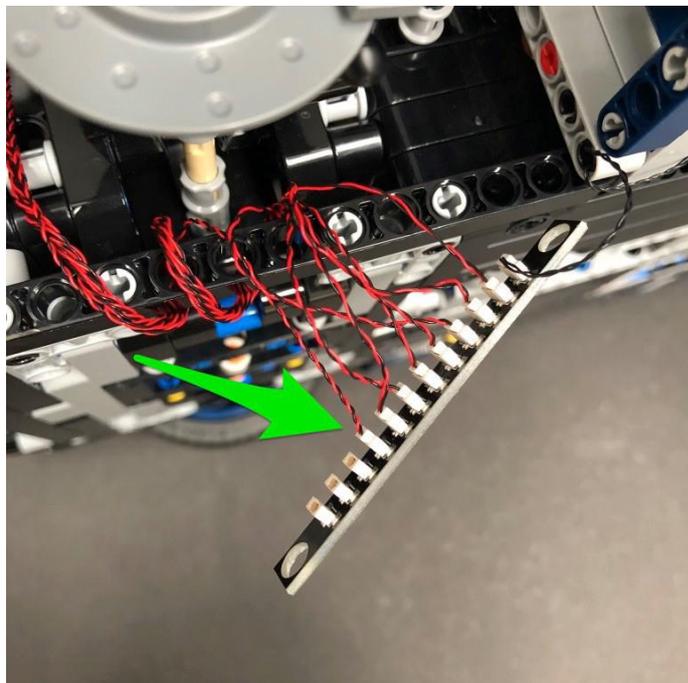
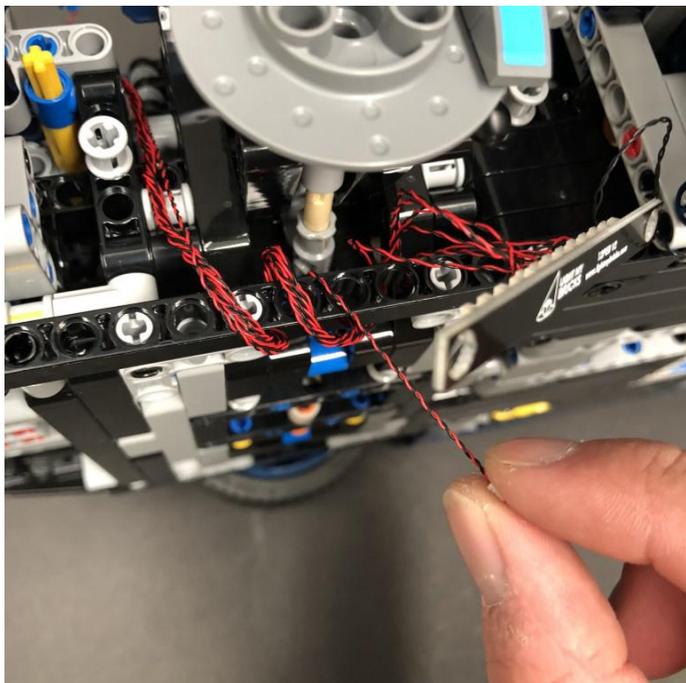
Pull the cable all the way up from the other side of the spoiler and then thread it back down the same space we threaded the larger cable through (that leads to the back wheel)



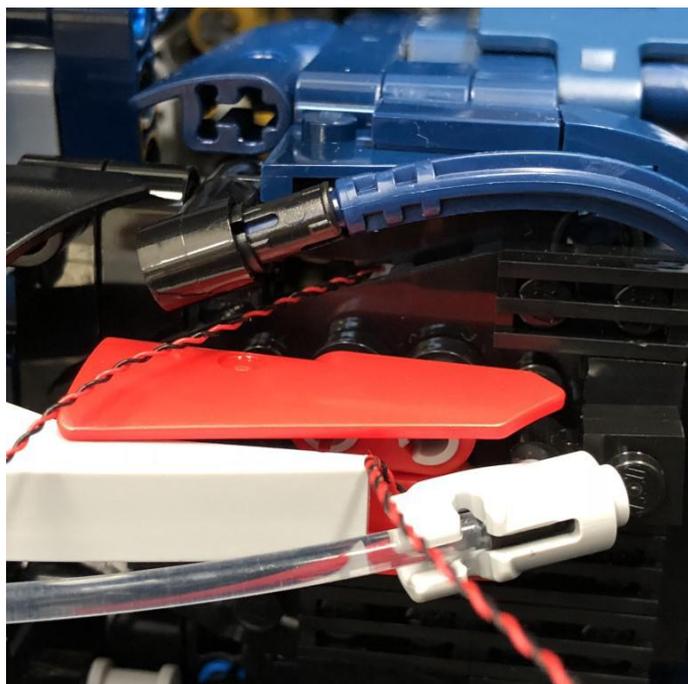
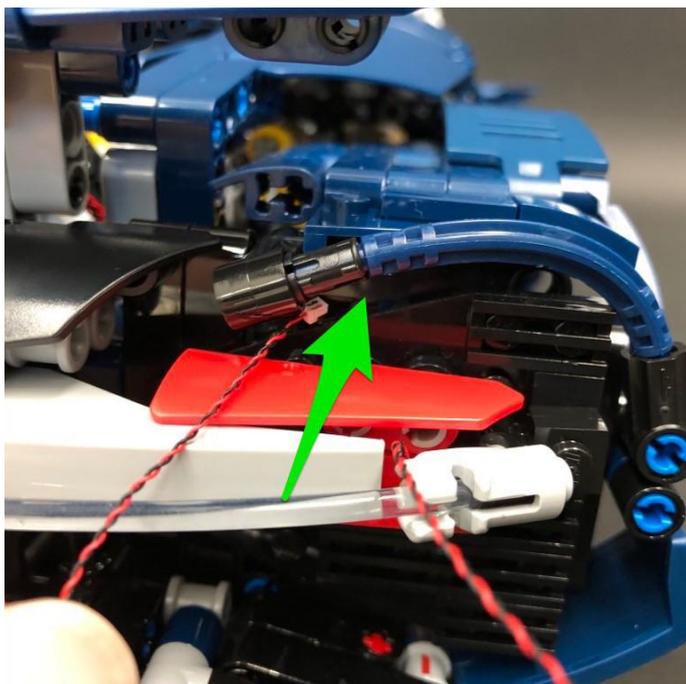
Flip the Bugatti onto it's side and then pull the cable all the way out.

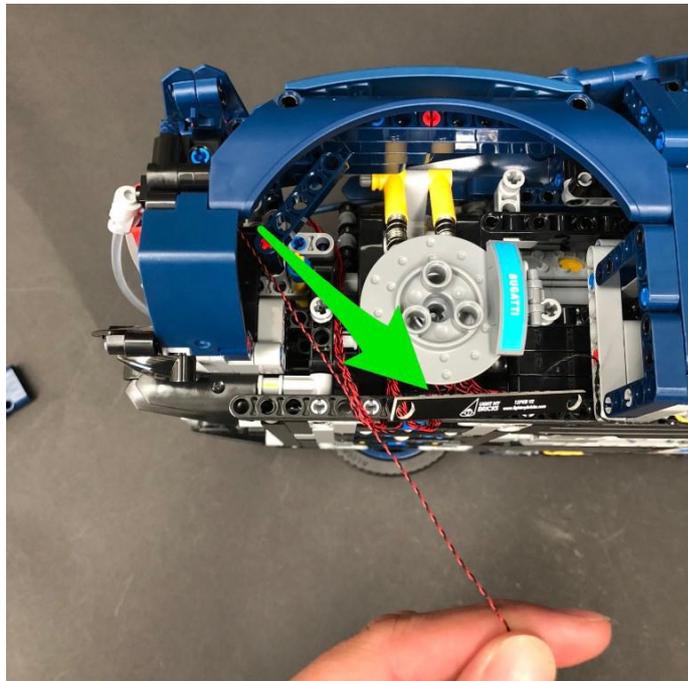
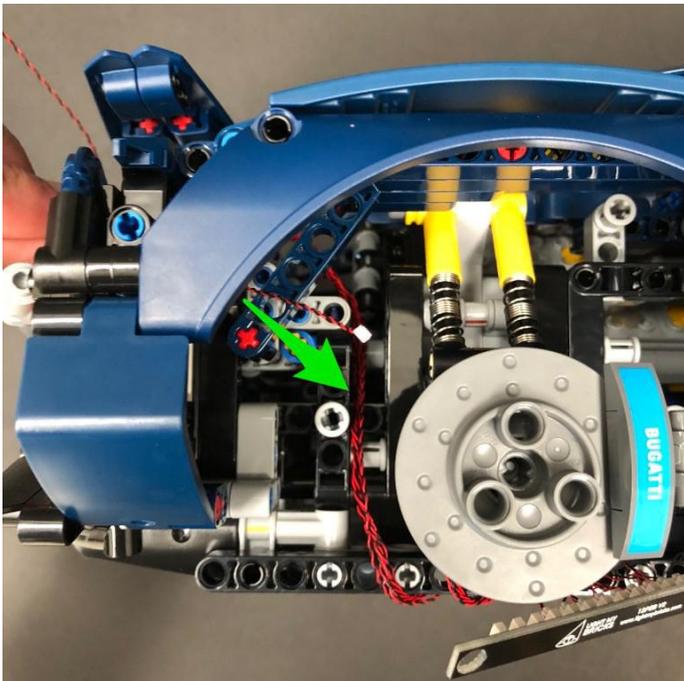


Loop the cable around the black technic brick (same way we did for the larger cable) before connecting it to the next available port on the 12-port Expansion Board.

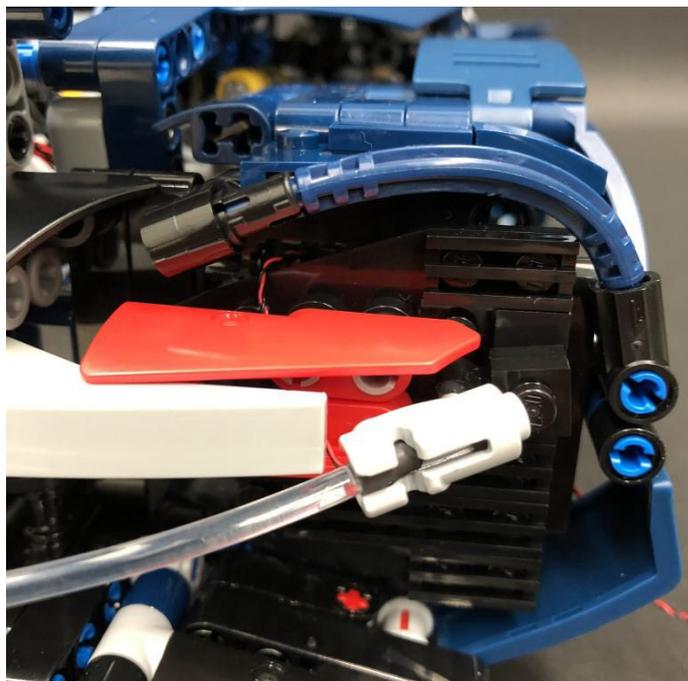


25.) Flip the Bugatti back over and then reconnect the right side of the red light bar. Thread the cable up the space above that leads to the back wheel then turn the Bugatti onto it's side to pull the cable out

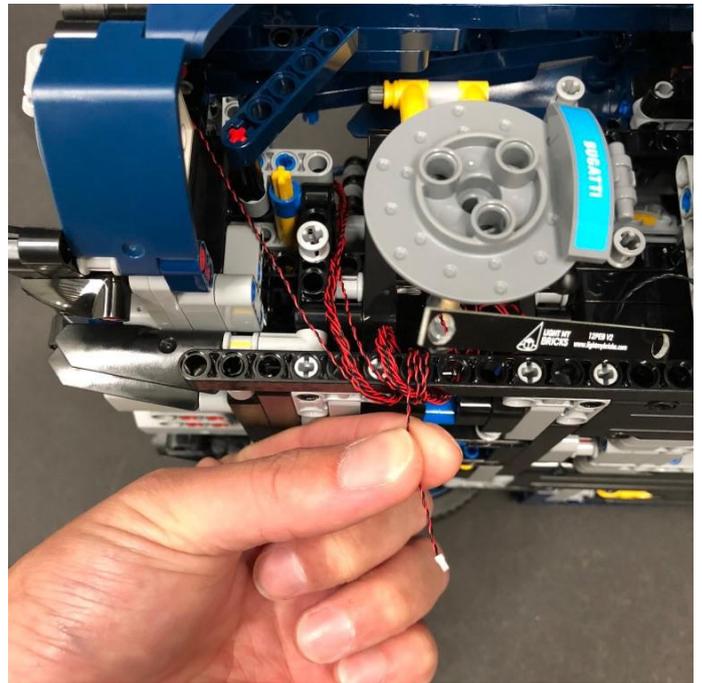
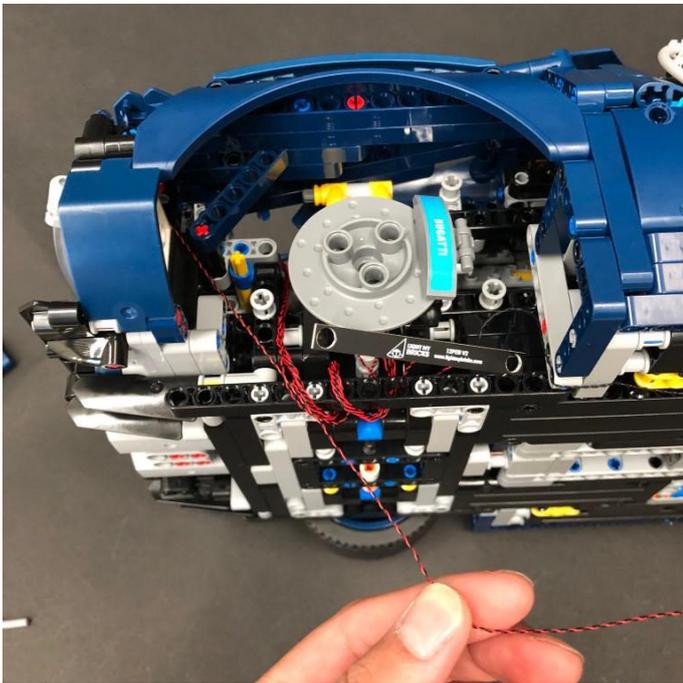




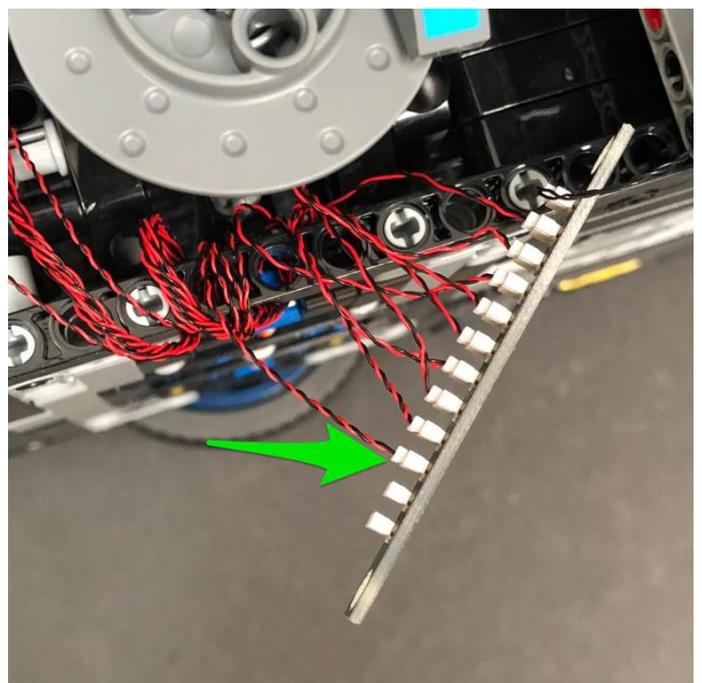
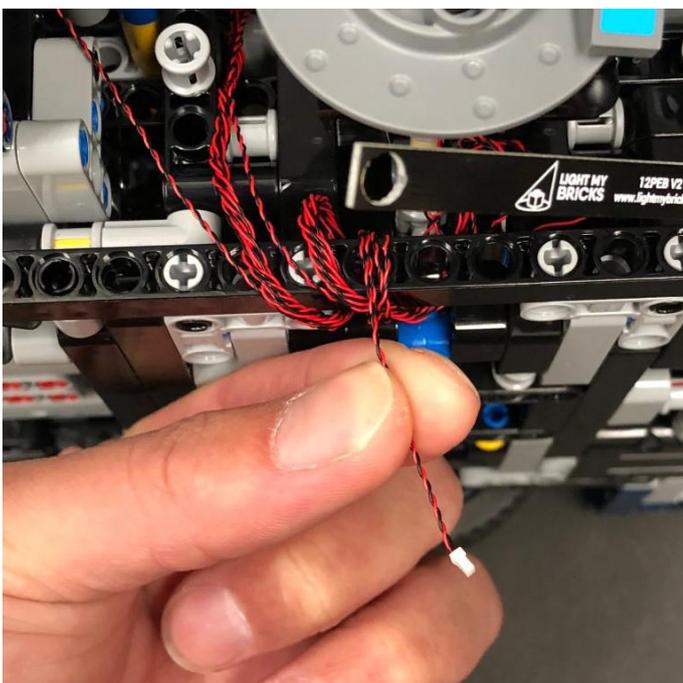
Flip the Bugatti back over and hide the cable behind the light grey piece as per below.



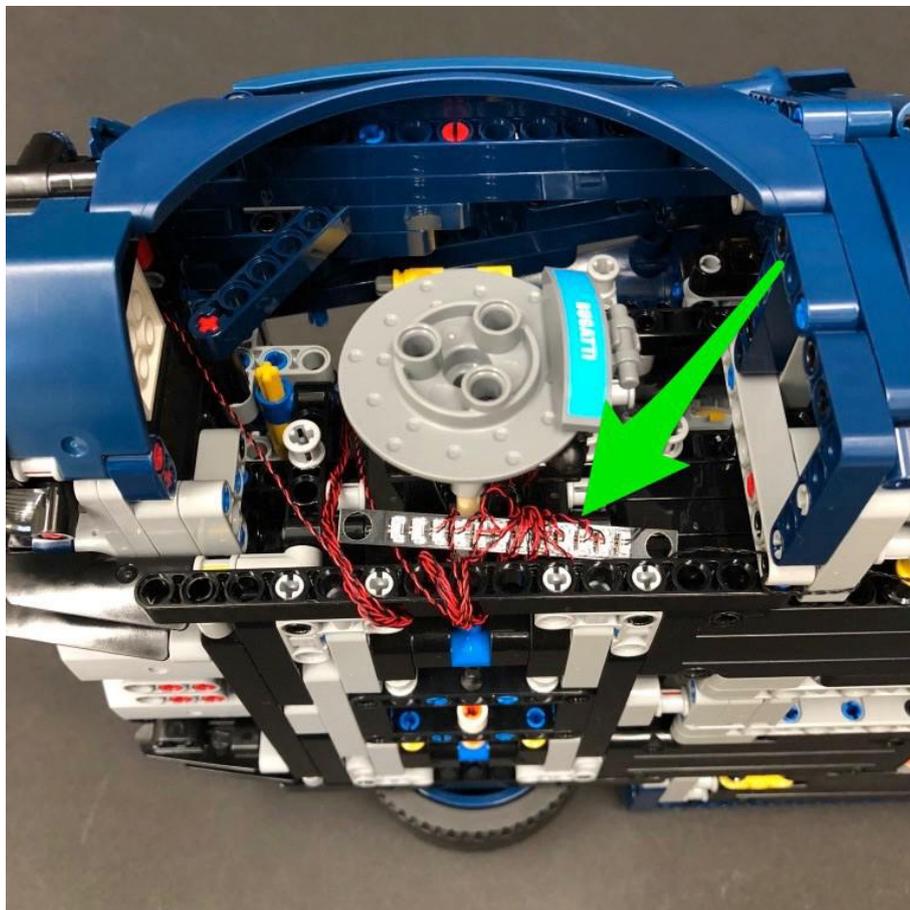
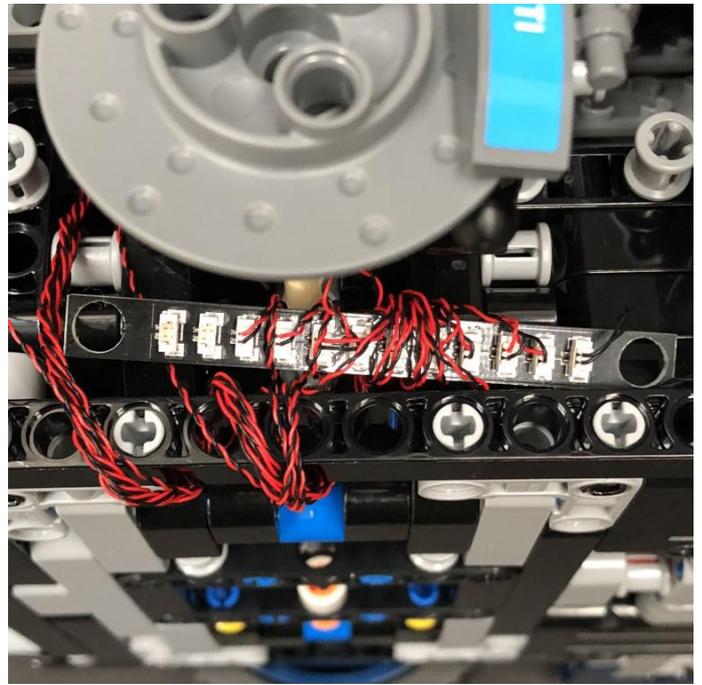
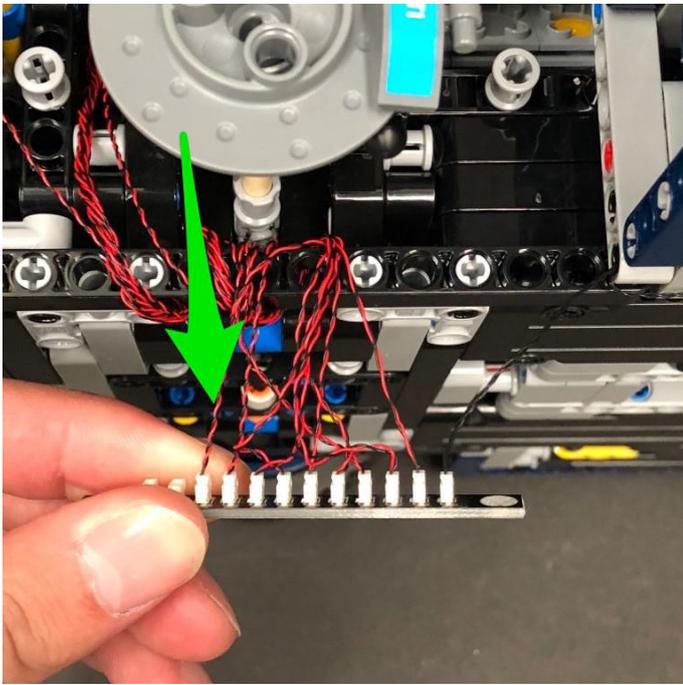
26.) Turn the Bugatti back onto it's side then pull the cable down and then loop it around the black technic brick twice to eliminate excess cable.



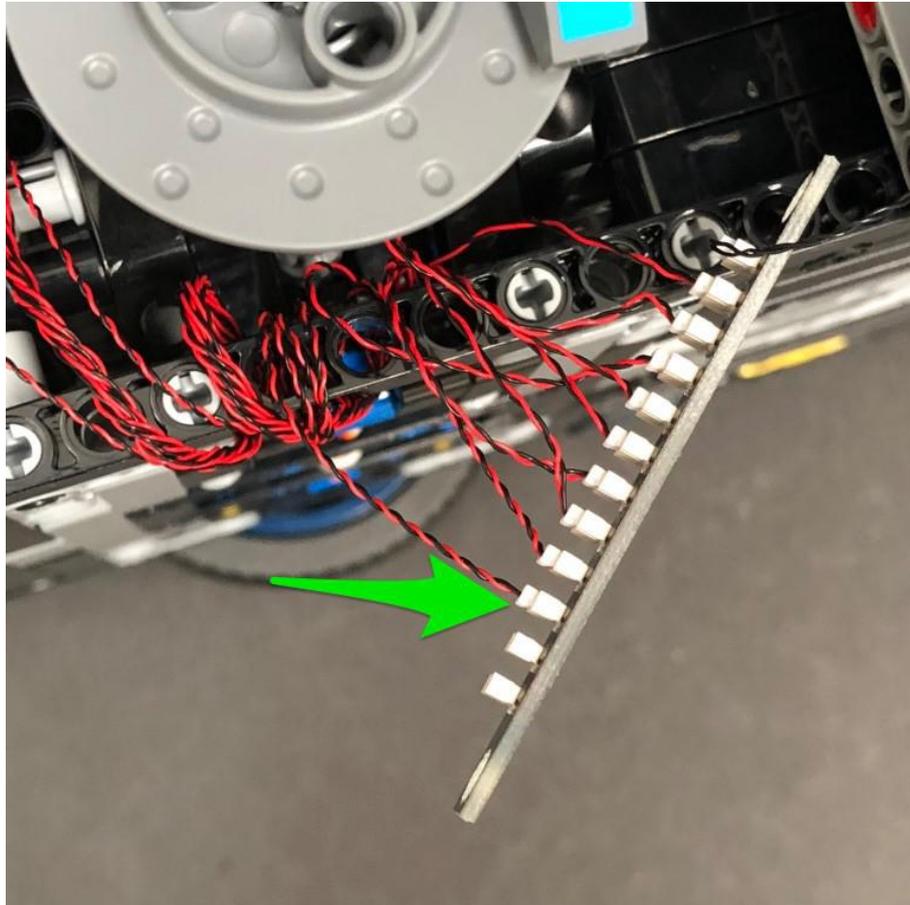
Connect the cable to the next available port on the expansion board.



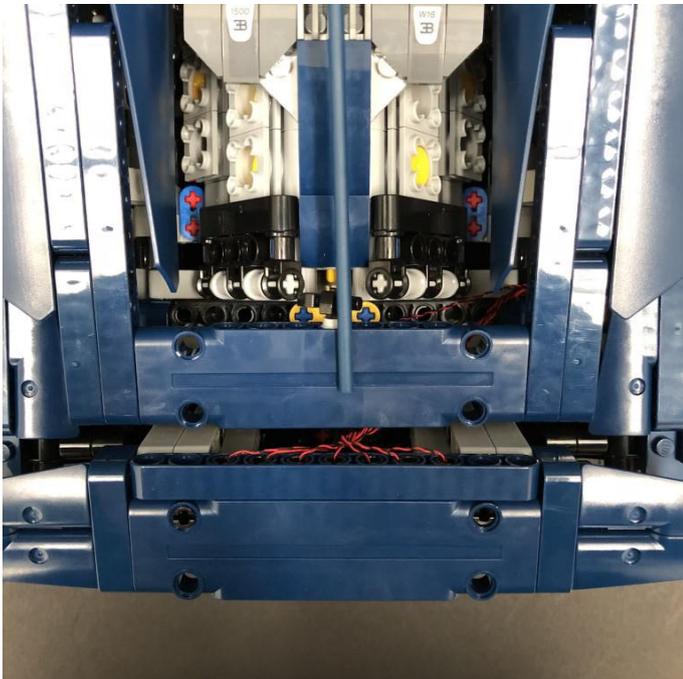
27.) Pull the expansion board down over the black technic brick to tighten all the cables then roll the expansion board up so the remaining excess cables wind around it. Tuck the expansion board into the space right under the disc brakes as per below.



Reconnect the back wheel.



28.) Flip the Bugatti back over and reconnect the flat blue technic brick to the back of the vehicle and then re-clip the blue technic bar.





Turn the battery pack ON to test that all the back lights are working OK.

