Light My Bricks
Installation Instructions for Light My Bricks LED Lighting Kits
Sep 14 · 19 min read · Unlisted

Light My Bricks: LEGO Bugatti Chiron 42083 Lighting Kit

The following page is the instructions for the **Light My Bricks LEGO Bugatti Chiron (42083) LED light kit.**

To ensure a trouble-free installation of your light kit, please read and follow each step carefully.

If you run into any issues, please refer to the **online troubleshooting guide.**

To download this instructions guide in PDF format please click **here.**

> *Please note: This page lists instructions for the LED light kit only. If you are wishing to purchase the Light My Bricks LEGO Bugatti Chiron (42083) LED light kit , please click here to view the product page*

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Package Contents:

- 8x **Cool White 30cm Bit Lights**
- 7x **Red 30cm Bit 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)**

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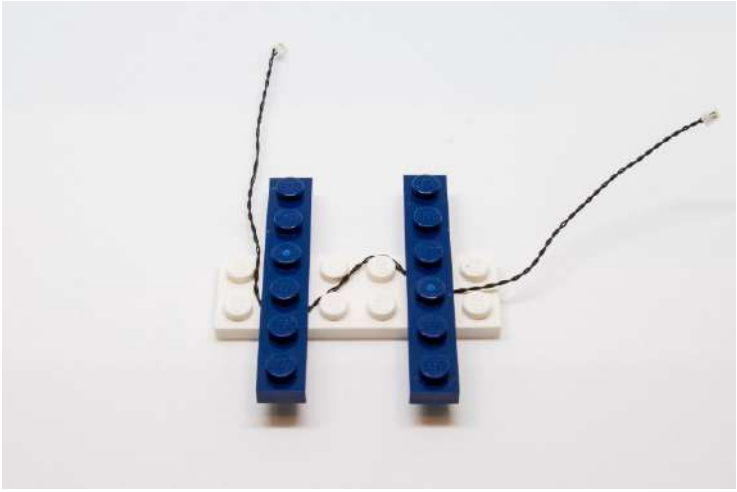
Laying cables in between and underneath bricks

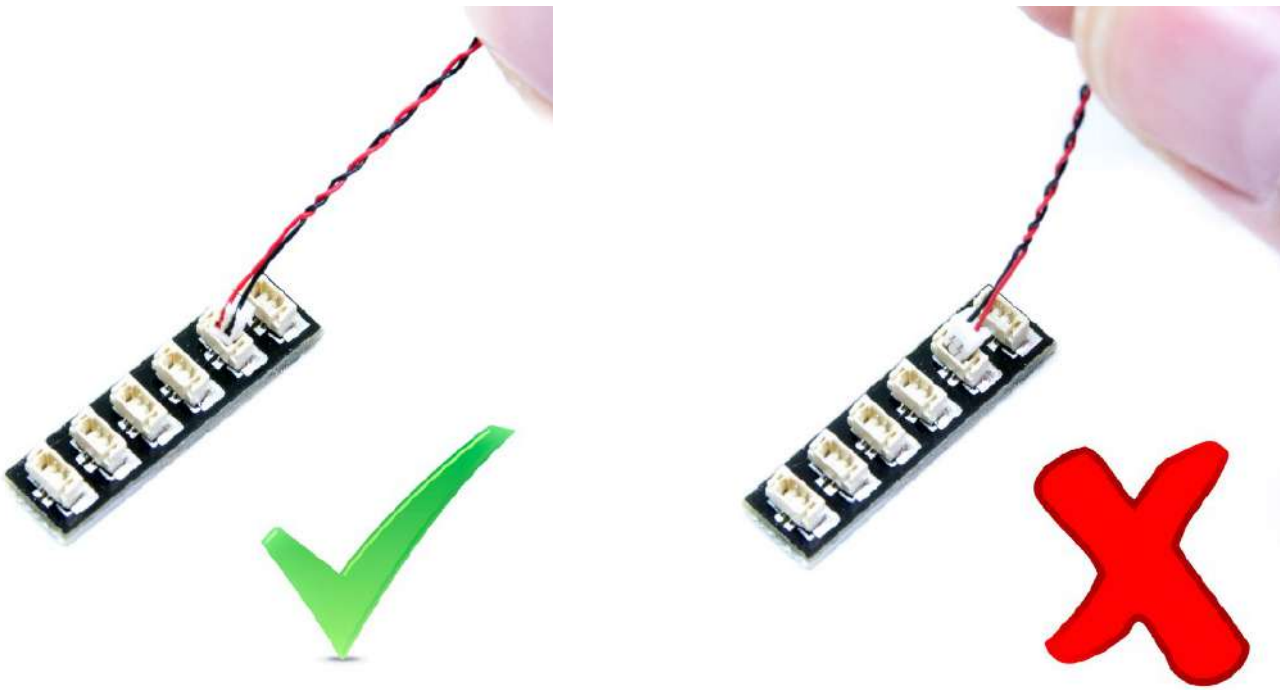
Cables can fit in between and underneath LEGO® bricks, plates, and tiles providing they are laid correctly between the LEGO® studs. Do NOT forcefully join LEGO® together around cables; instead ensure they are laying comfortably in between each stud.



CAUTION: Forcing LEGO® to connect over a cable can result in damaging the cable and light.

Connecting cable connectors to Expansion Boards

Take extra care when inserting connectors to ports of Expansion Boards. Connectors can be inserted only one way. With the expansion board facing up, look for the soldered "=" symbol on the left side of the port. The connector side with the wires exposed should be facing toward the soldered "=" symbol as you insert into the port. If a plug won't fit easily into a port connector, do not force it.

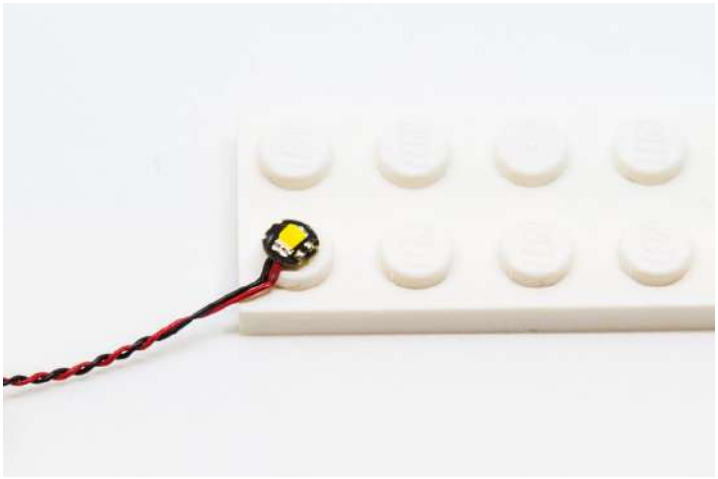


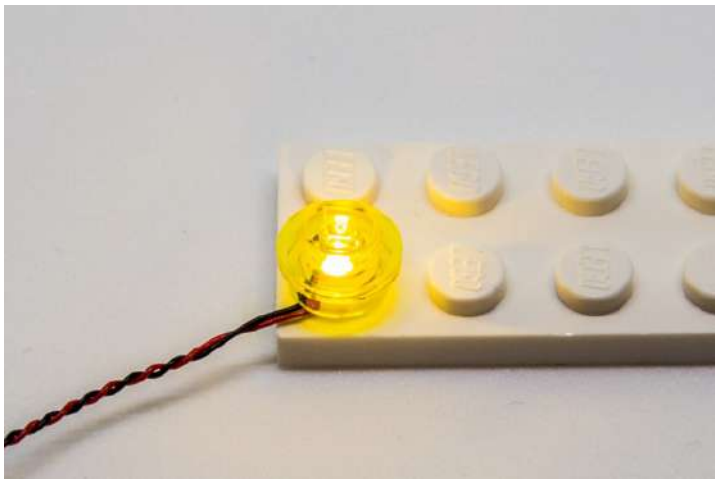
Incorrectly inserting the connector can can result in bent pins inside the port or possible overheating of

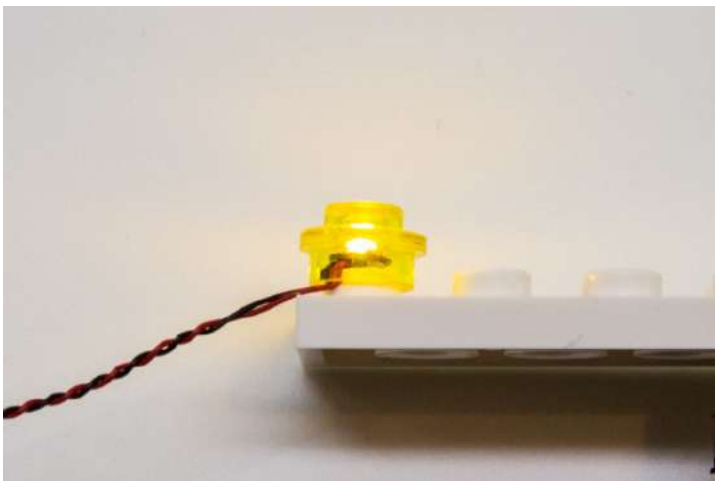
the expansion board when connected.

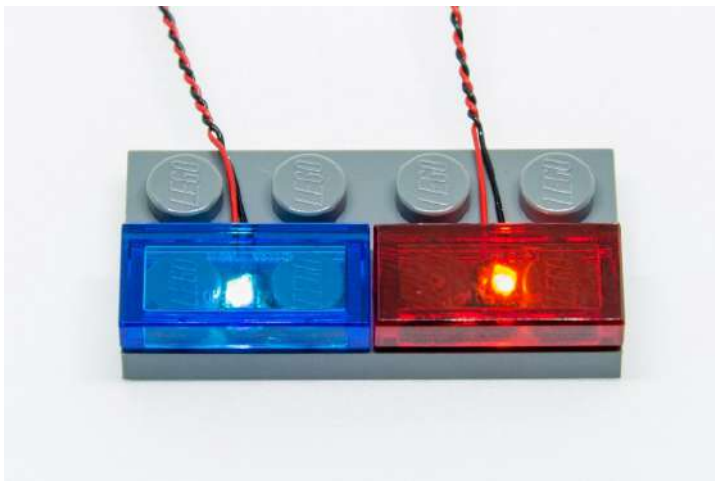
Installing Bit Lights under LEGO® bricks and plates.

When installing Bit Lights under LEGO® pieces, ensure they are placed the correct way up (Yellow LED component exposed). You can either place them directly on top of LEGO® studs or in between.









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OK, Let's Begin!

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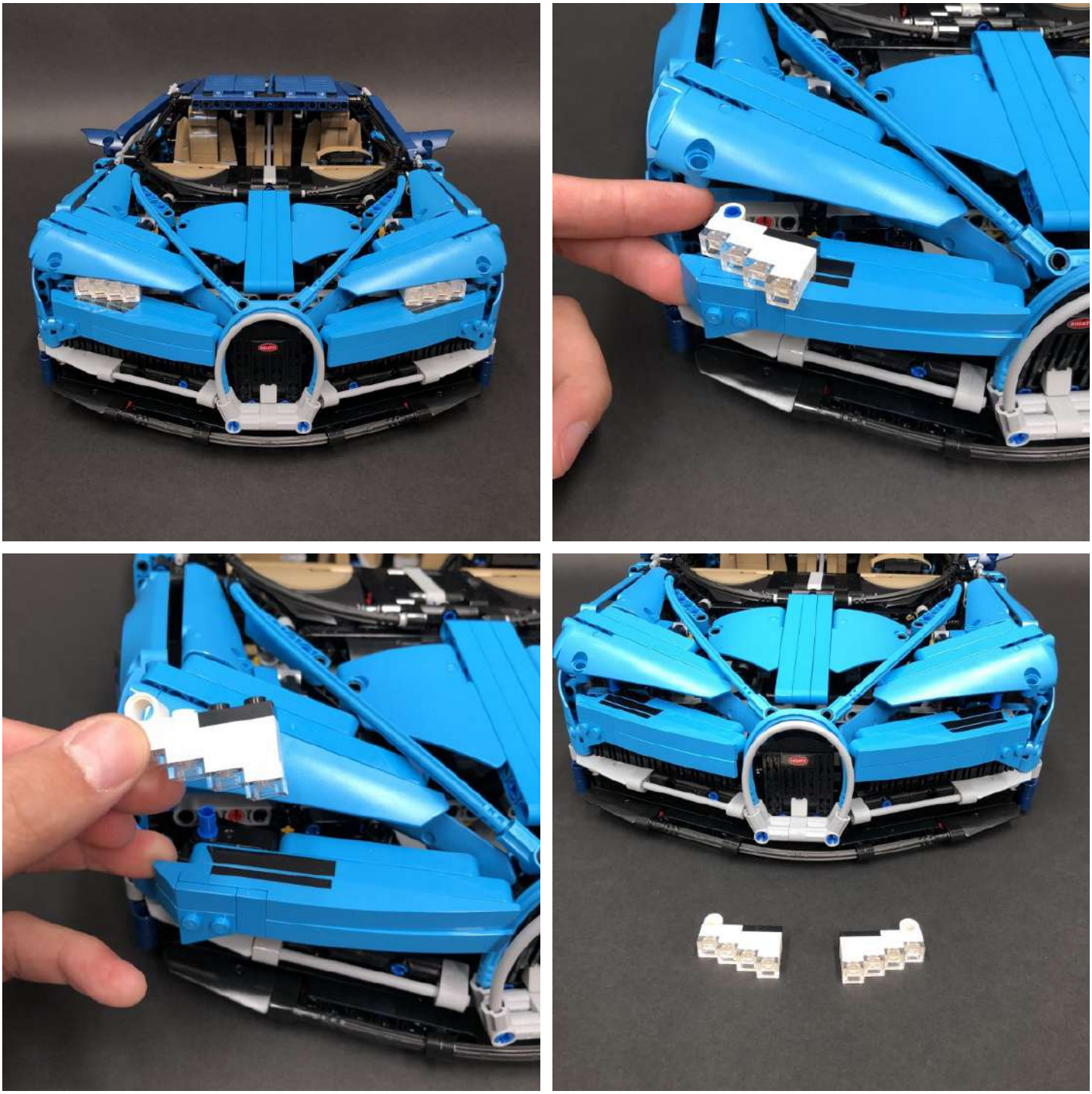
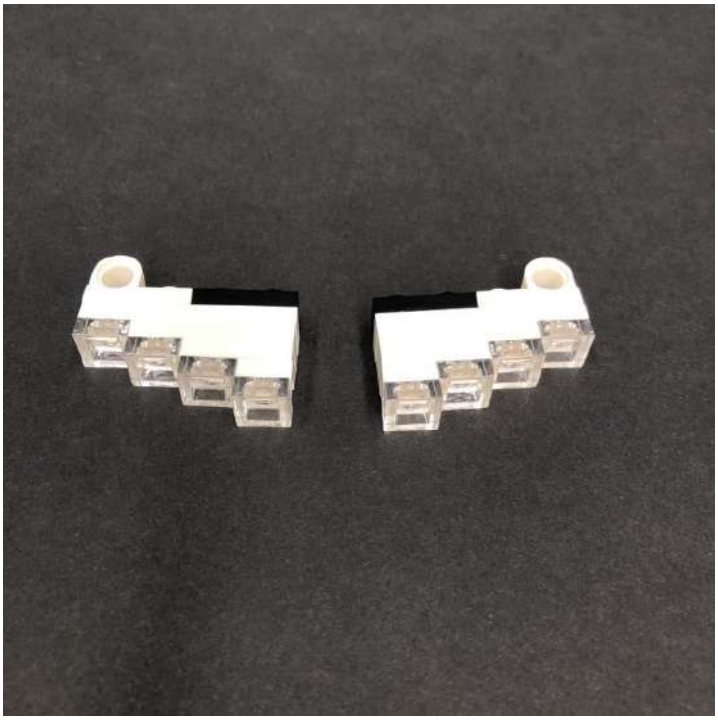
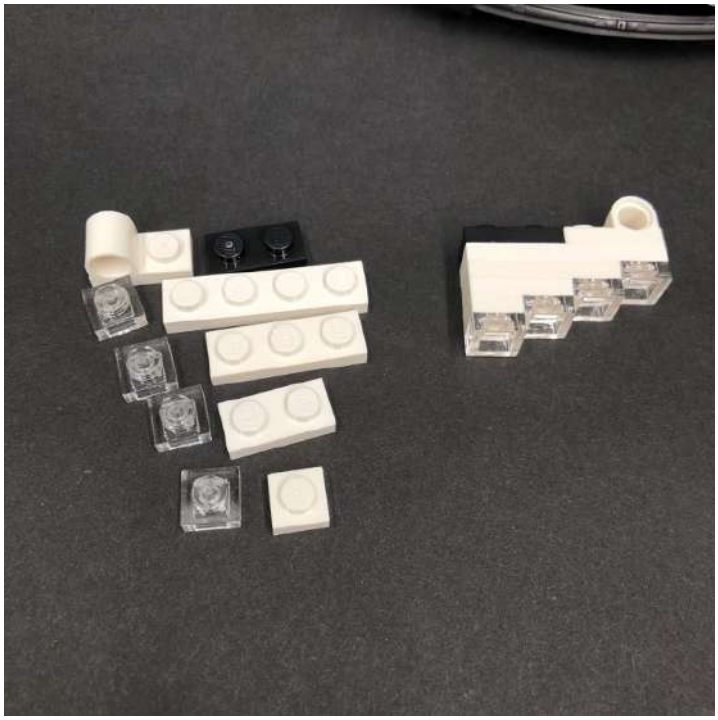
1.) We will start by installing lights to the headlights. First disconnect the headlight sections from each side.



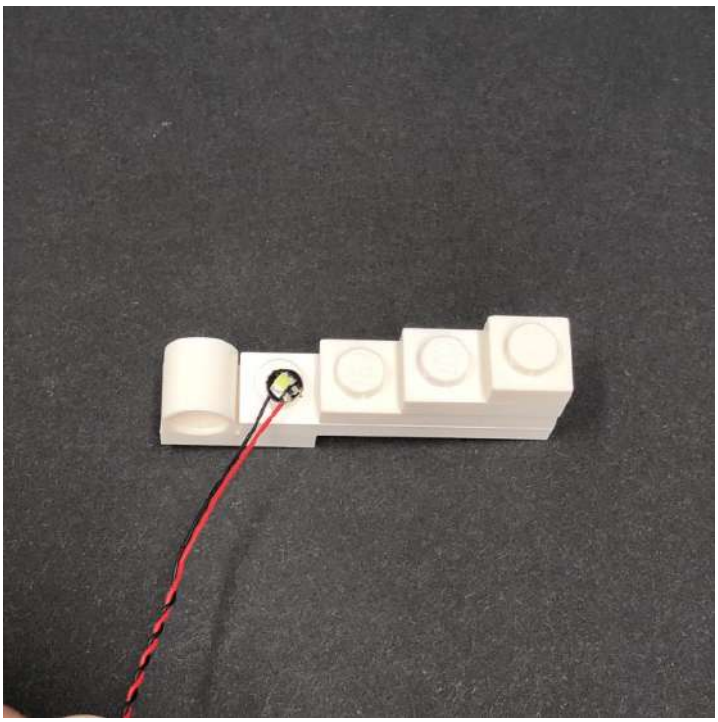
2.) Disassemble pieces from the left headlight as per below

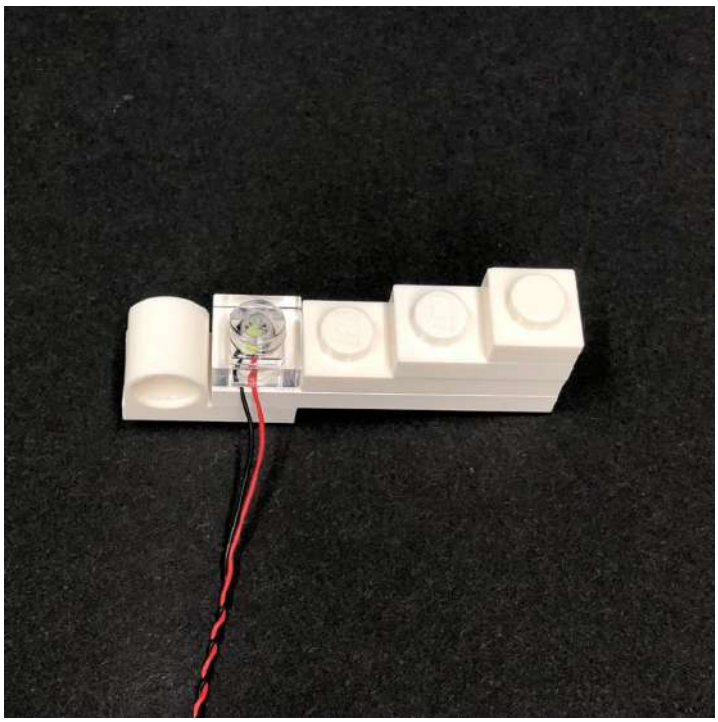




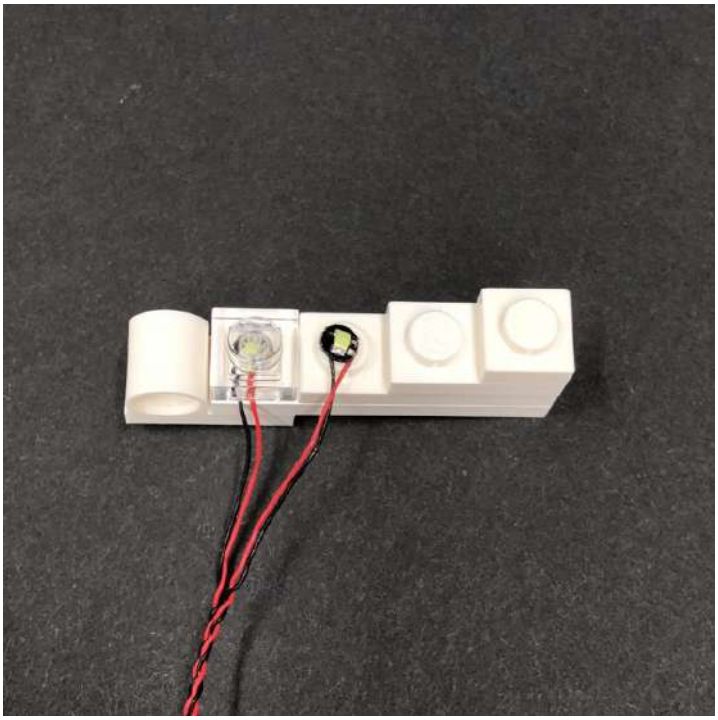
Follow the below images to rebuild the white pieces that make up the left head light section. We need to flip the studs over so that the trans clear plates are reversed to allow us to install our Bit Lights underneath each one.

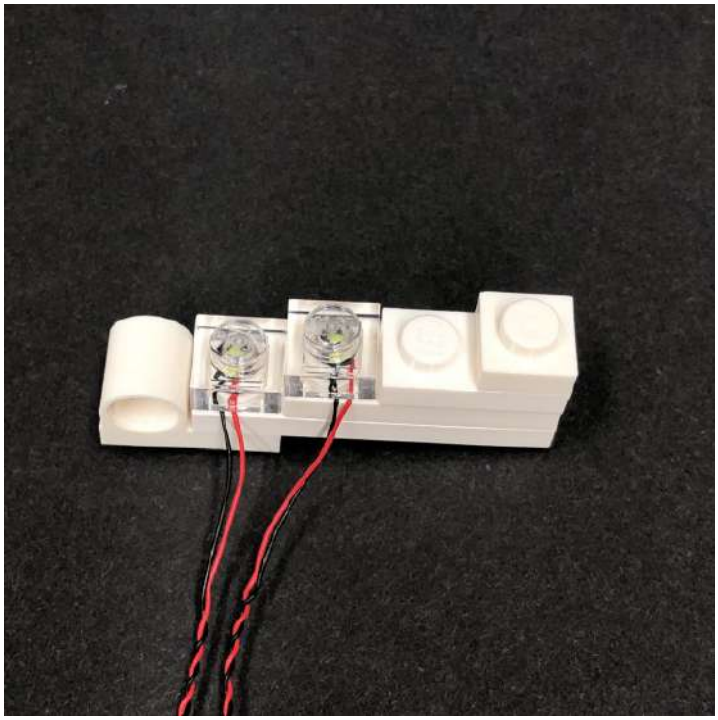
3.) Take a **Cool White 30cm Bit Light** and with the cable facing down, place it over the far left stud as per below. Secure the Bit Light in place by reconnecting one of the trans clear plates over the top.



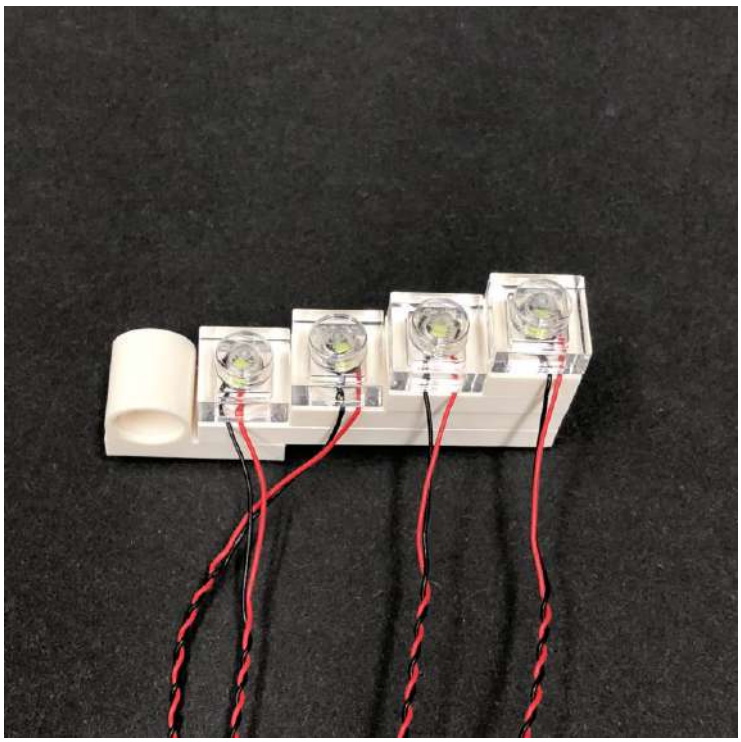


Take another **Cool White 30cm Bit Light** and place it over the next stud along. Secure the light in place by reconnecting another trans clear plate over the top.

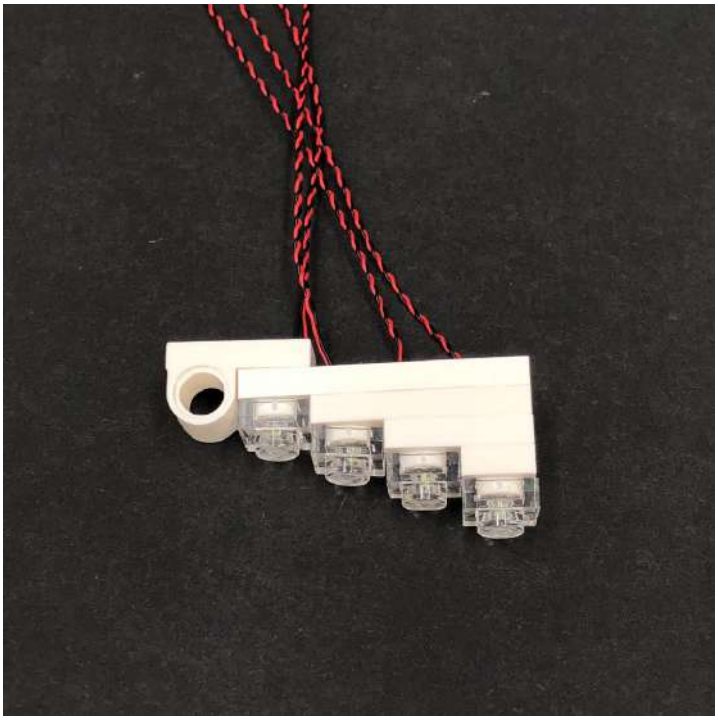




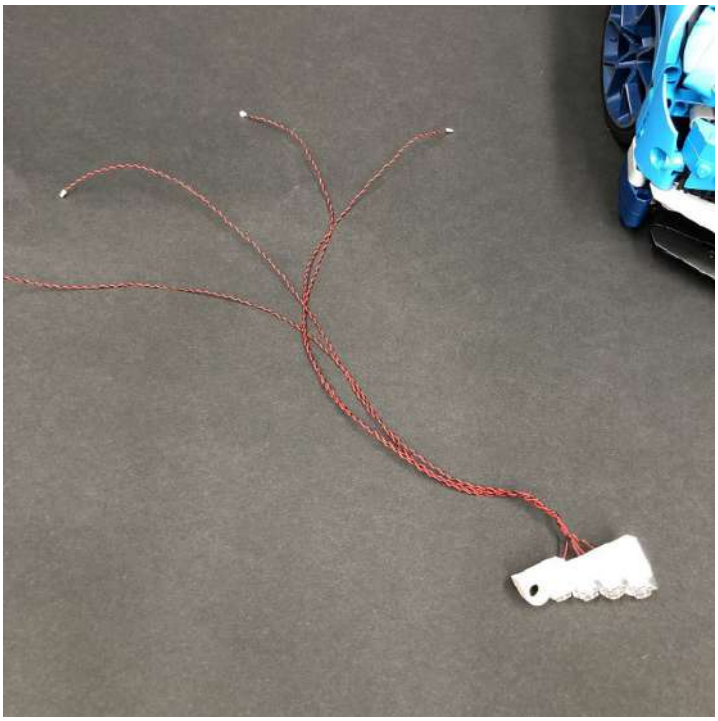
Follow the same process to install another **2x Cool White 30cm Bit Lights** to the rest of the left headlight.

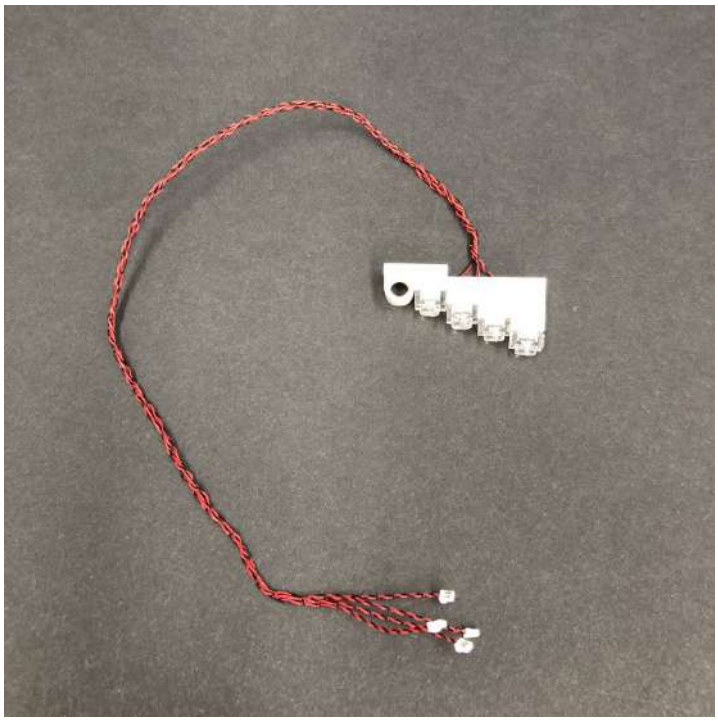


4.) Turn the headlight section over so that it is facing forward. Group all the cables together and twist them around each other.

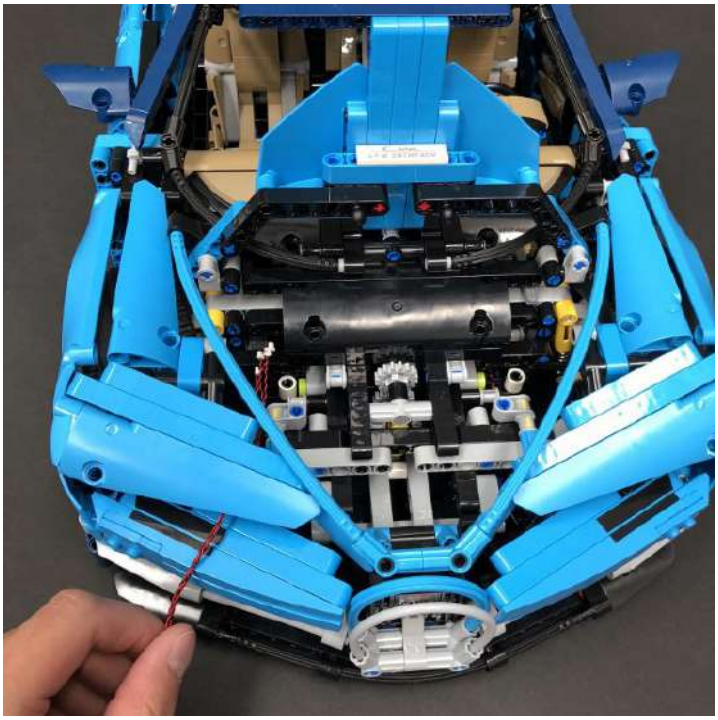


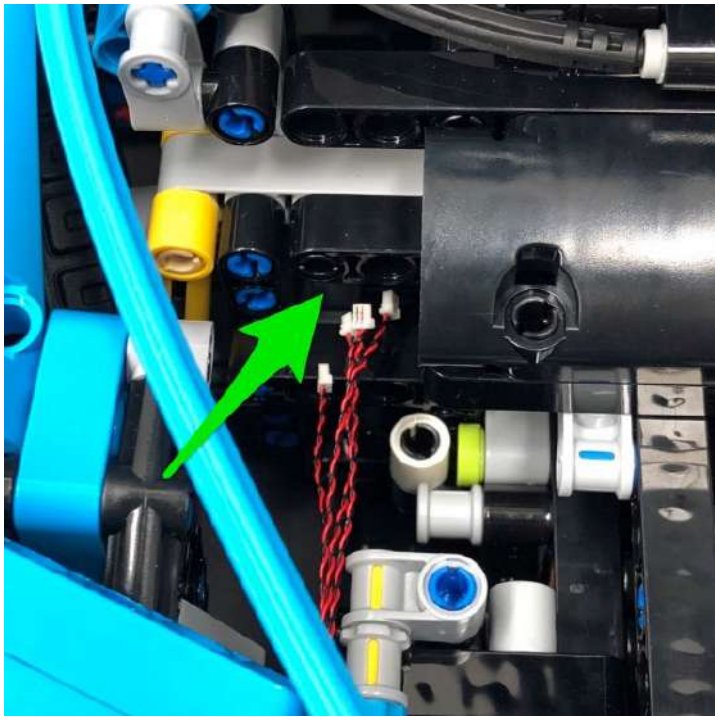
Continue to twist the cables around each other all the way to the end so that it forms one larger cable.

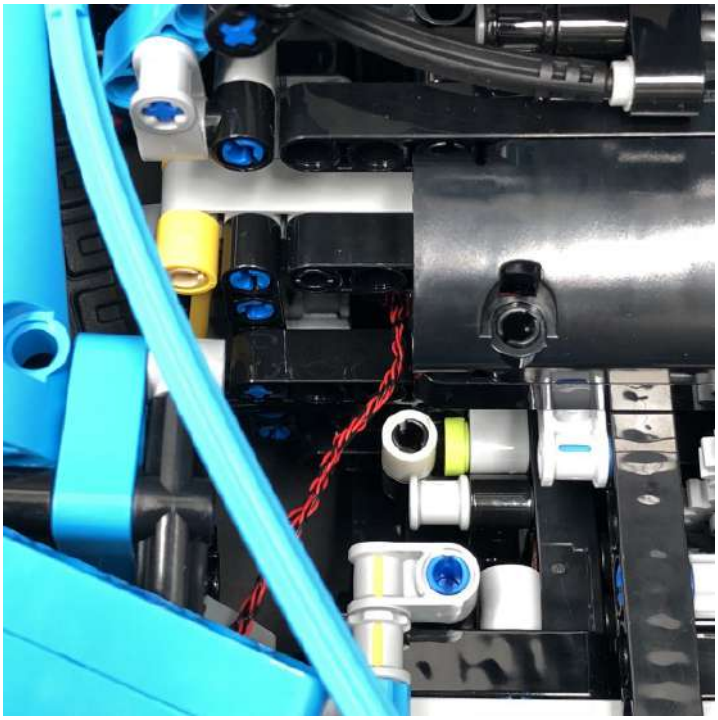


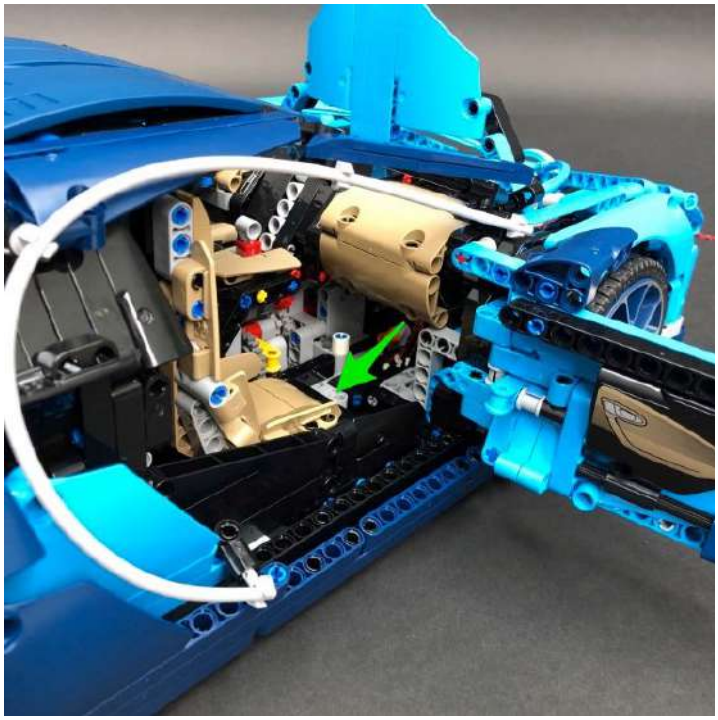


5.) Thread the cables through the front of the vehicle where the headlight was then continue to thread the cables through the space which leads to the internal passenger side.

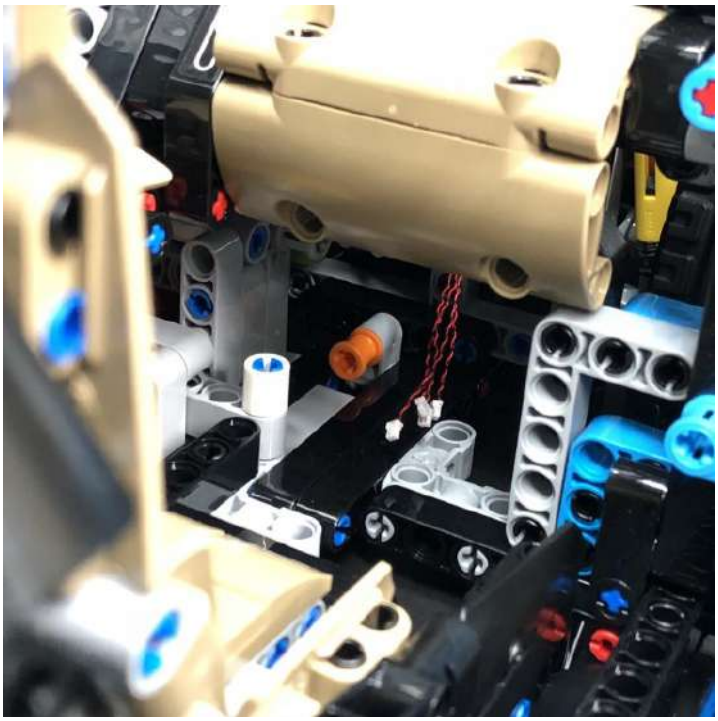


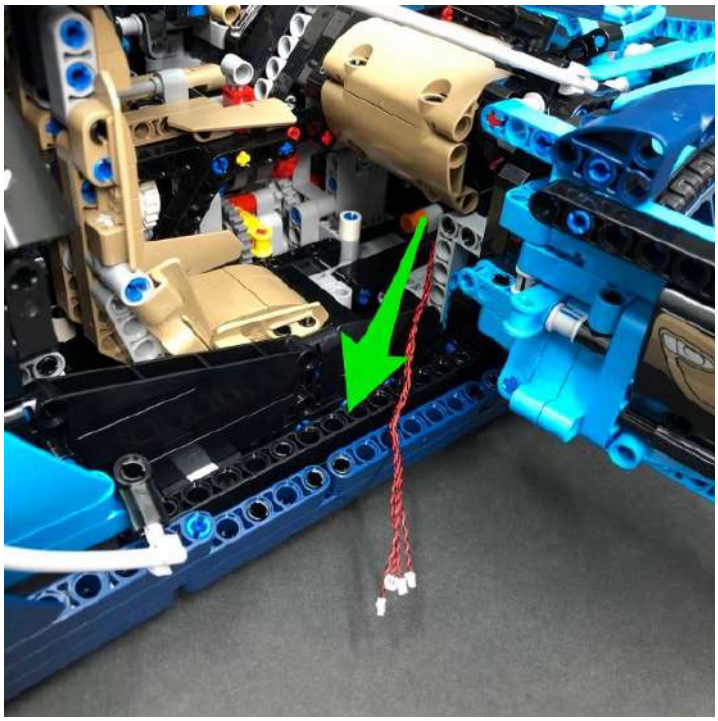


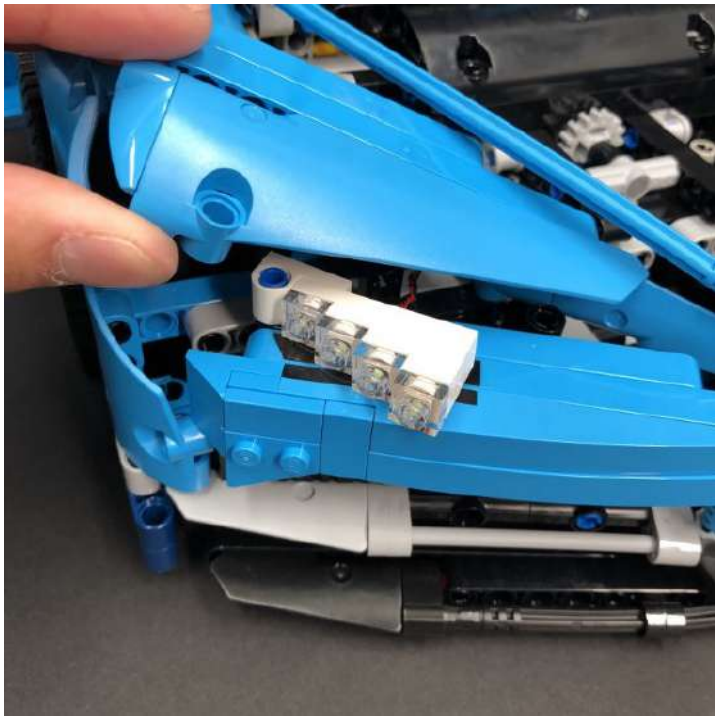




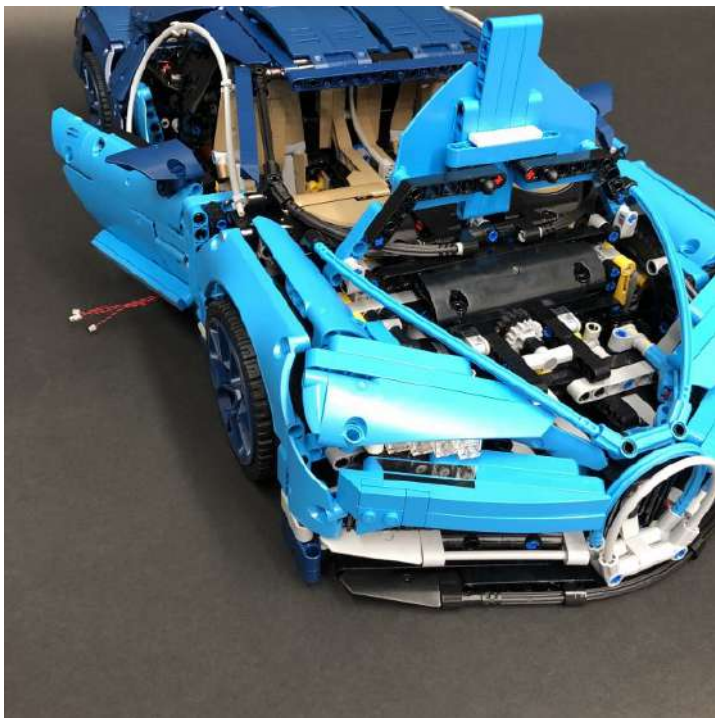
Pull the cable out and then reconnect the headlight while pulling the remaining cable out from the passenger side.



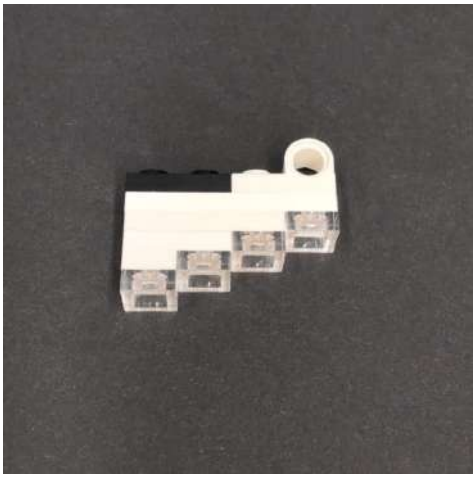


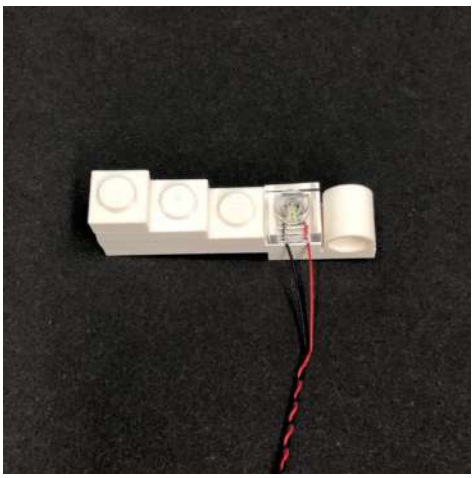
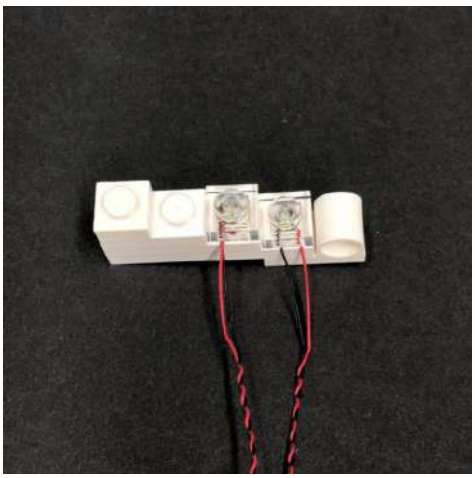
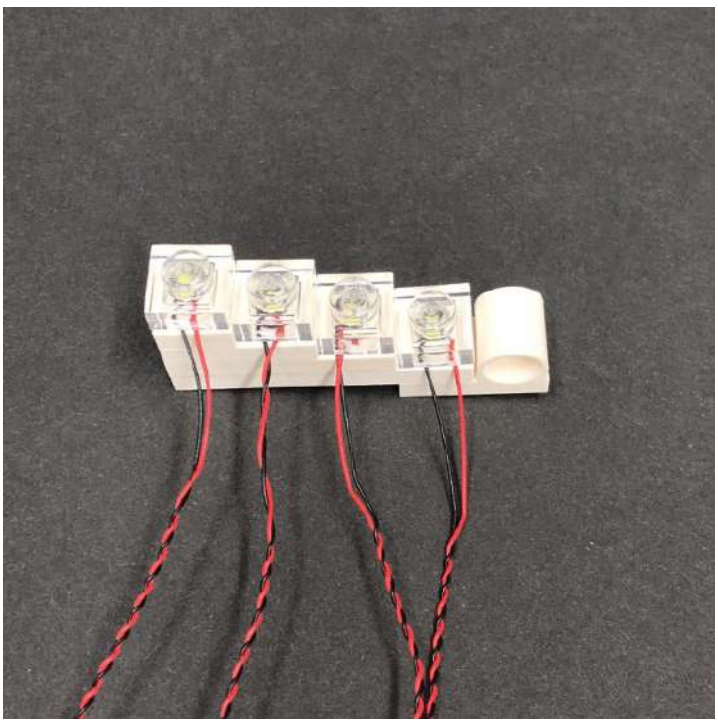
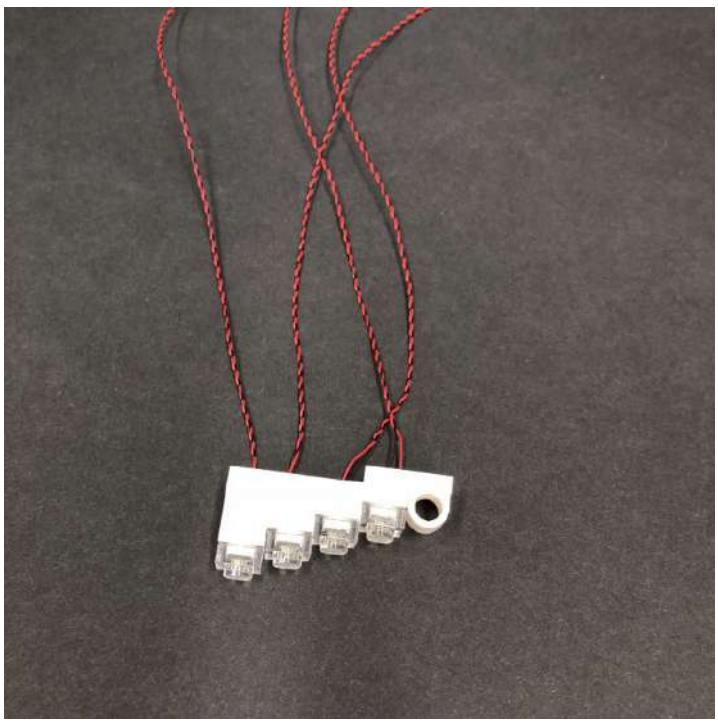


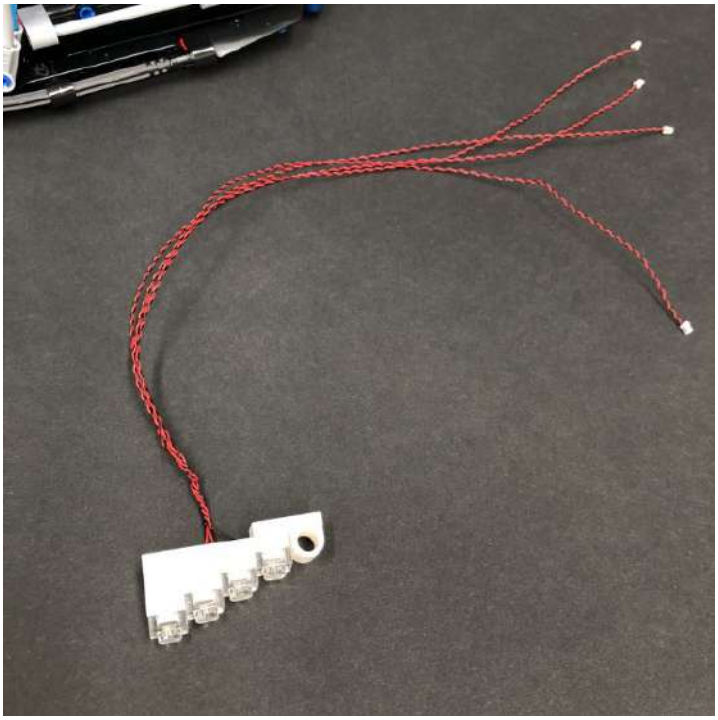
Push the headlight back into position.



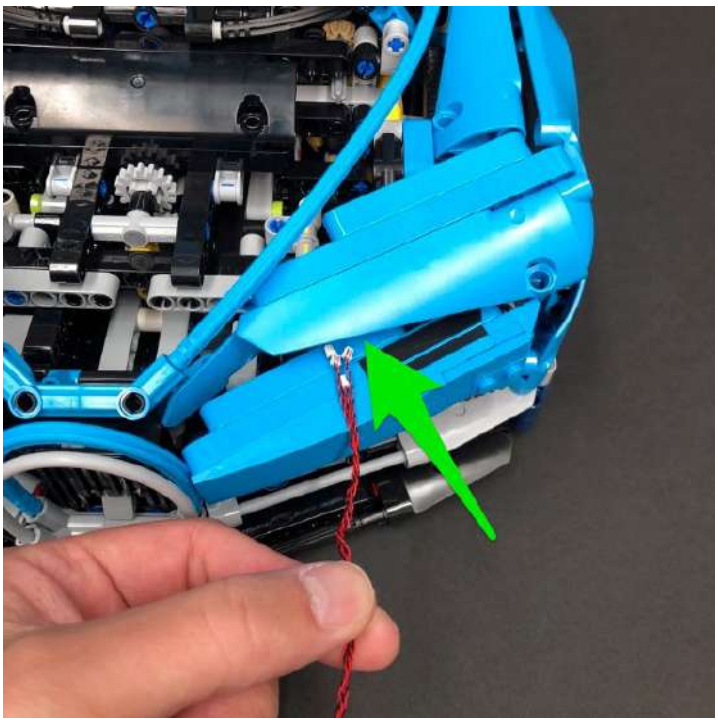
6.) Repeat steps 2–4 to rebuild and install another **4x Cool White 30cm Bit Lights** to the right headlight.

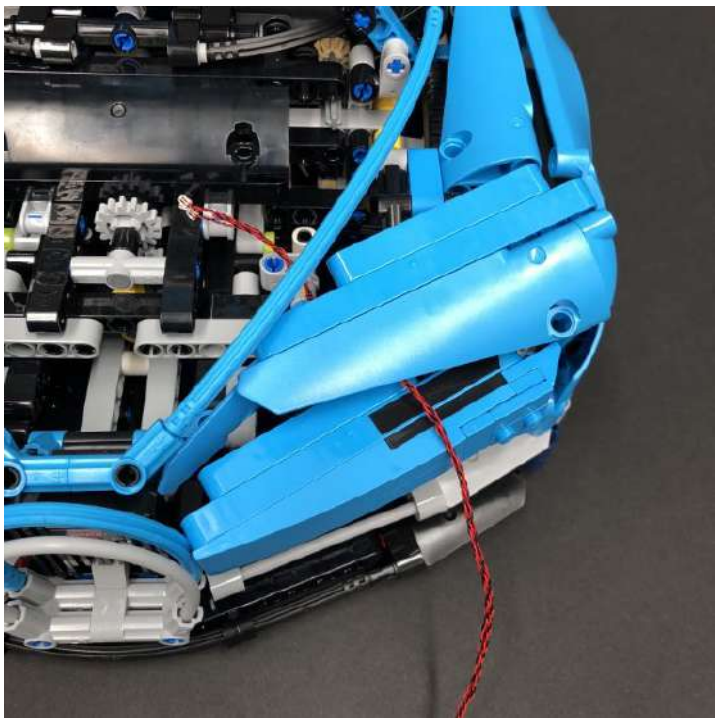


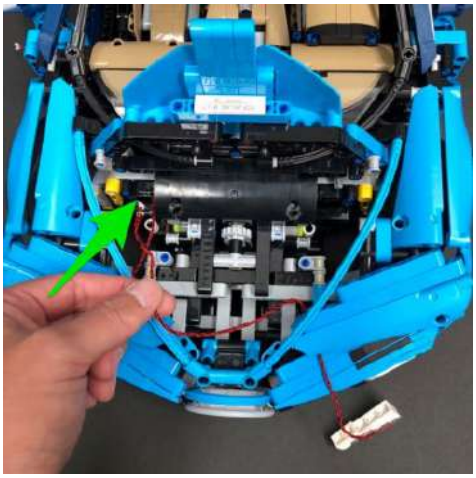
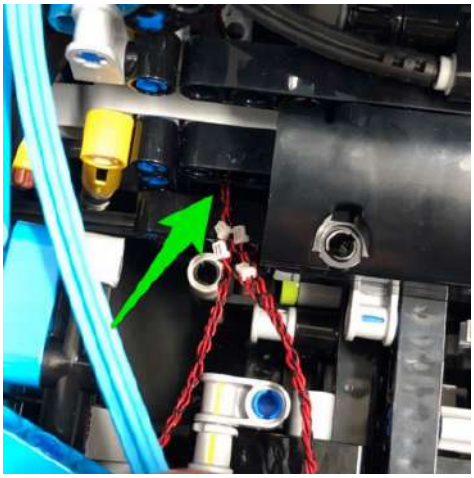
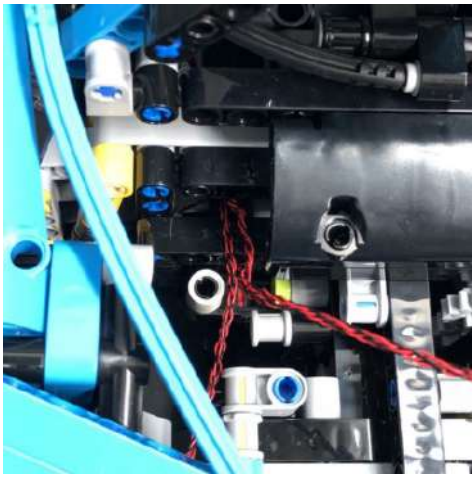
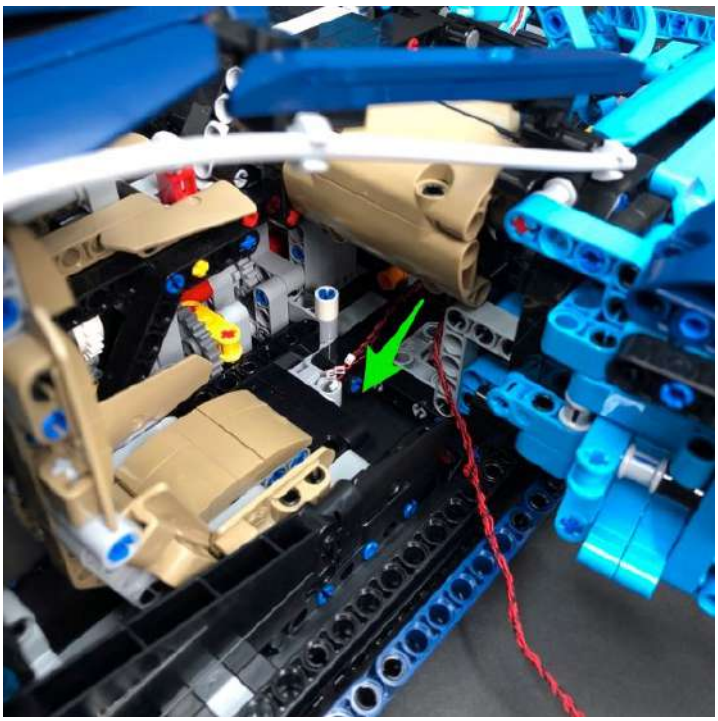
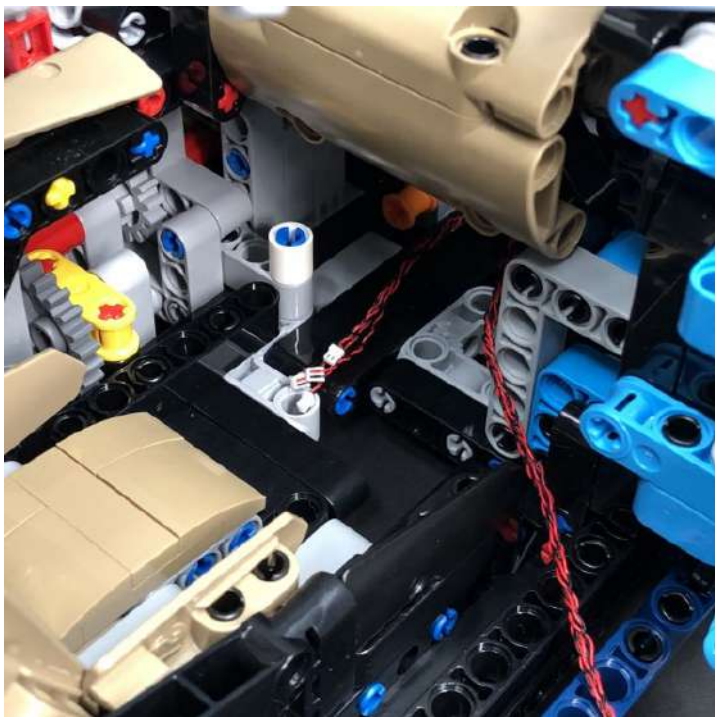







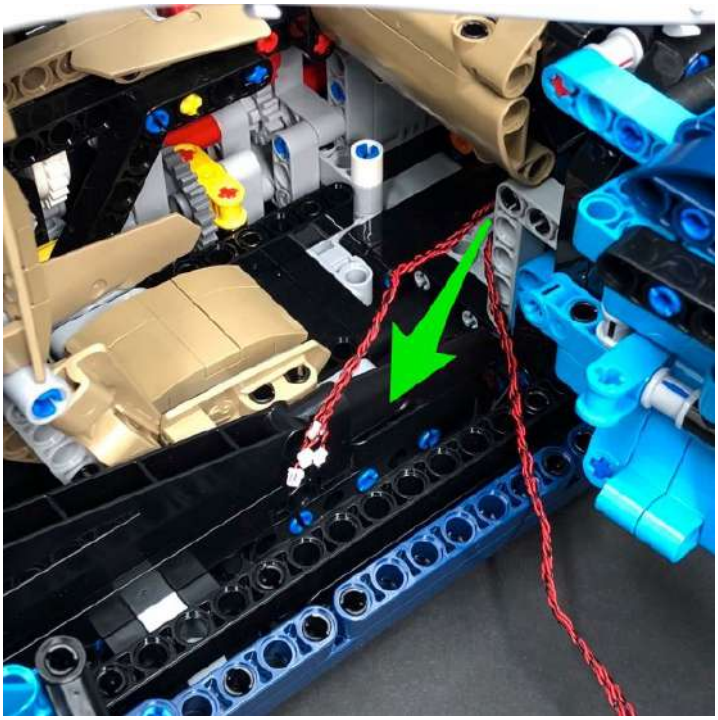
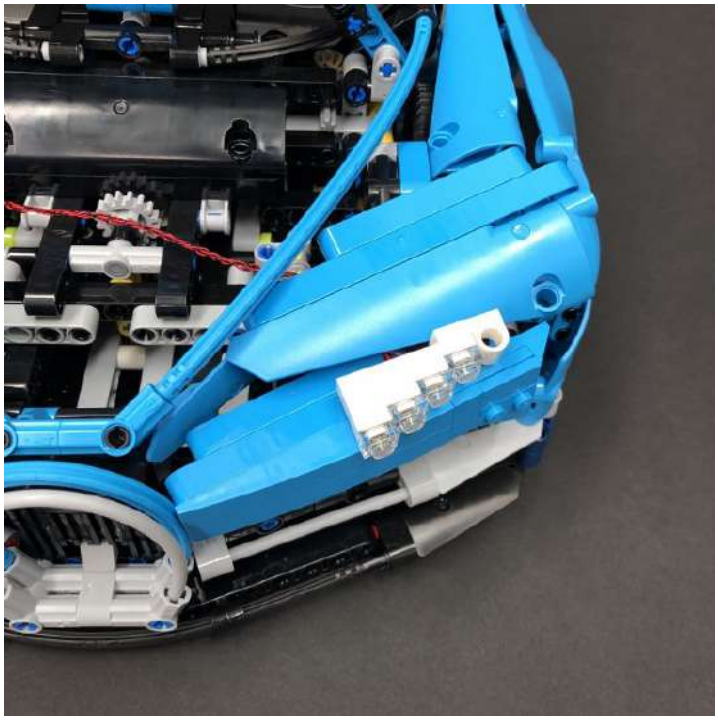
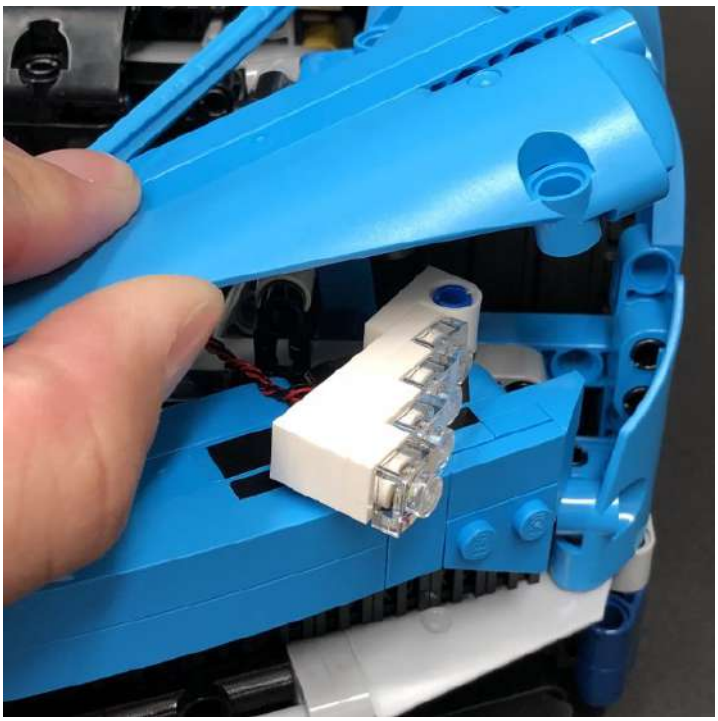
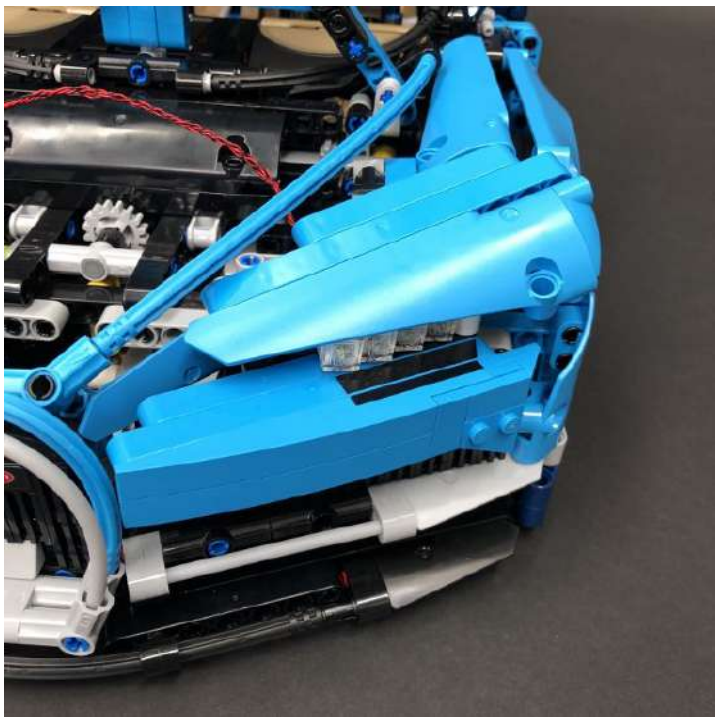
7.) Thread the right headlight cables through the front right side and then thread them through the same area we threaded the left headlight cables (through to the internal passenger side)



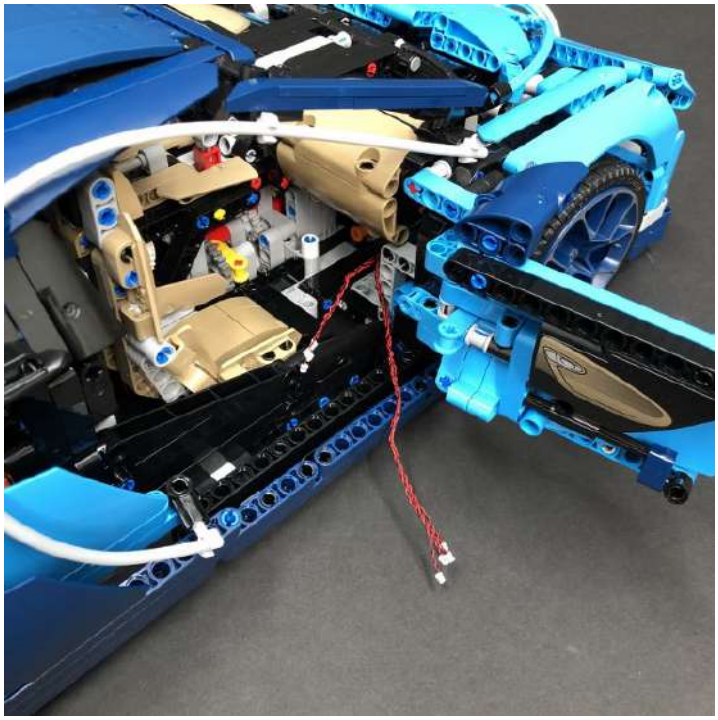


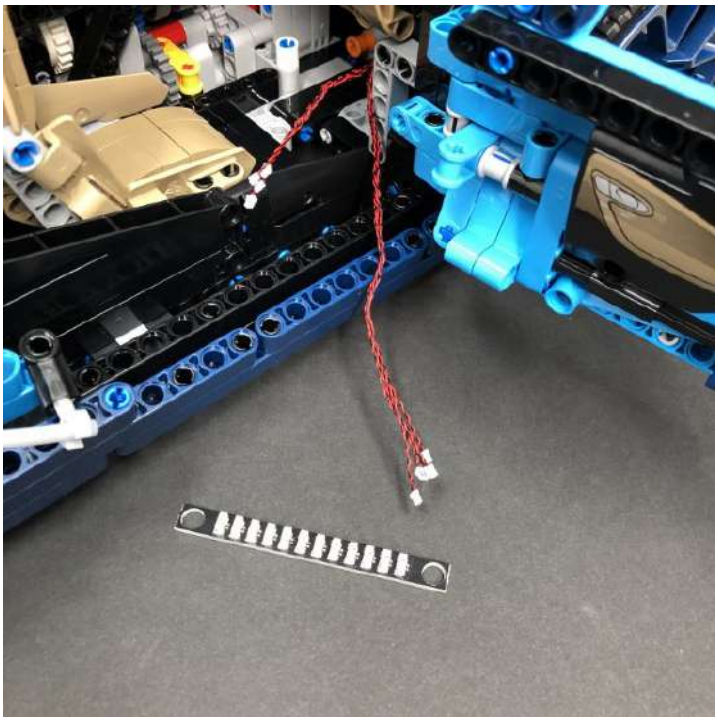
Pull the cable out and then reconnect the headlight while pulling the remaining cable out from the passenger side.

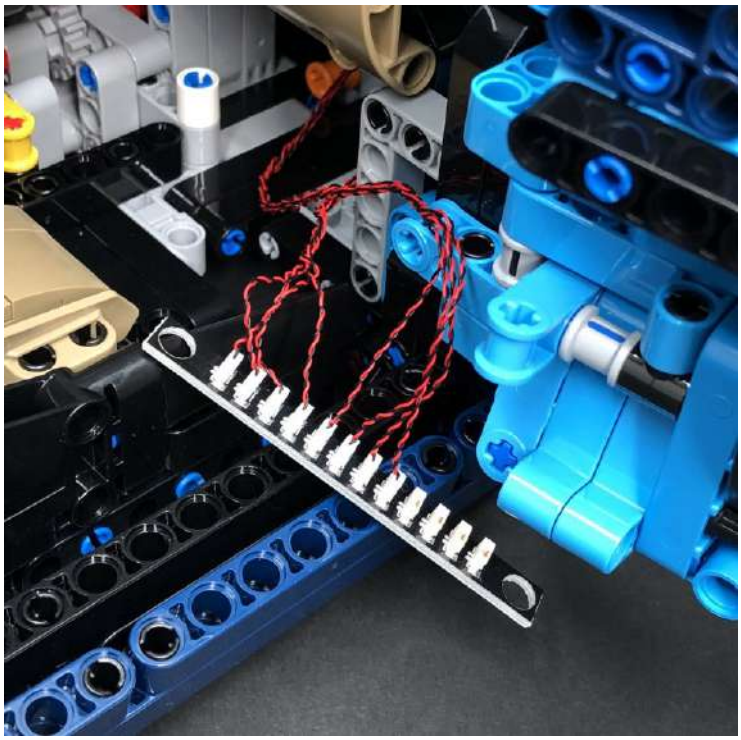





The front and passenger side of the vehicle should look like below.

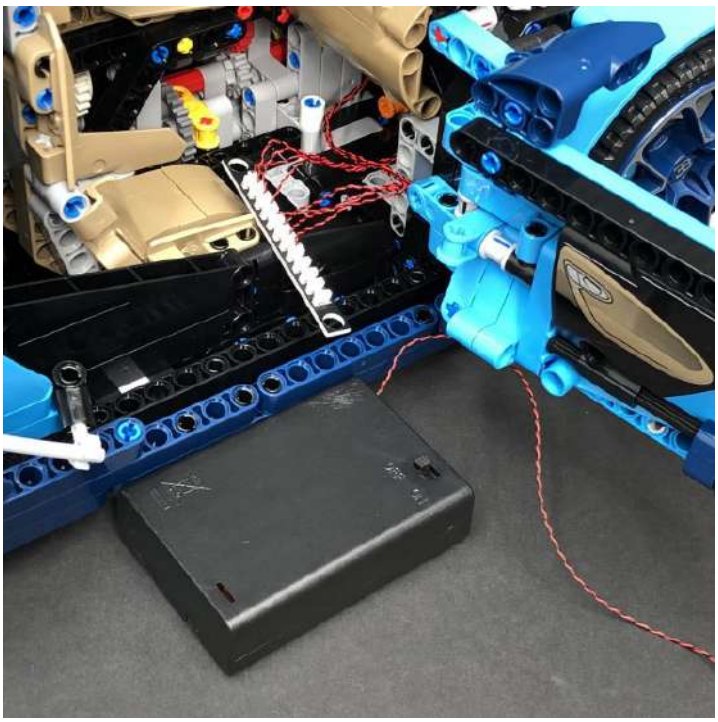


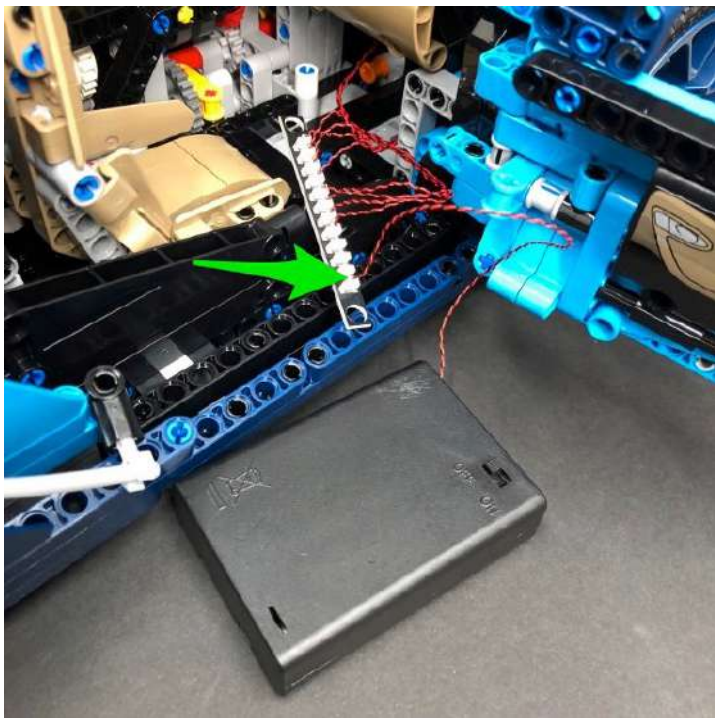
8.) Take a **12-Port Expansion Board** and connect all the cables from both headlights to it starting with those from the right headlight first.



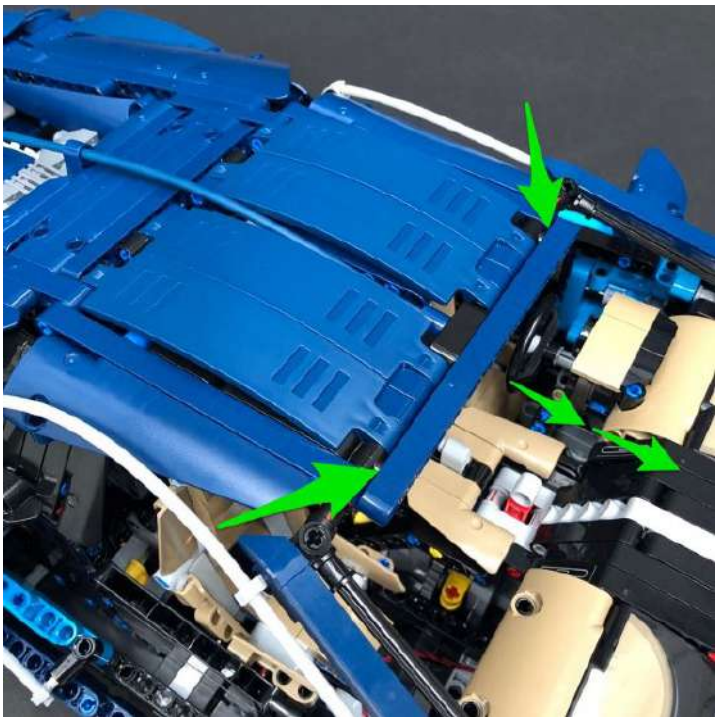


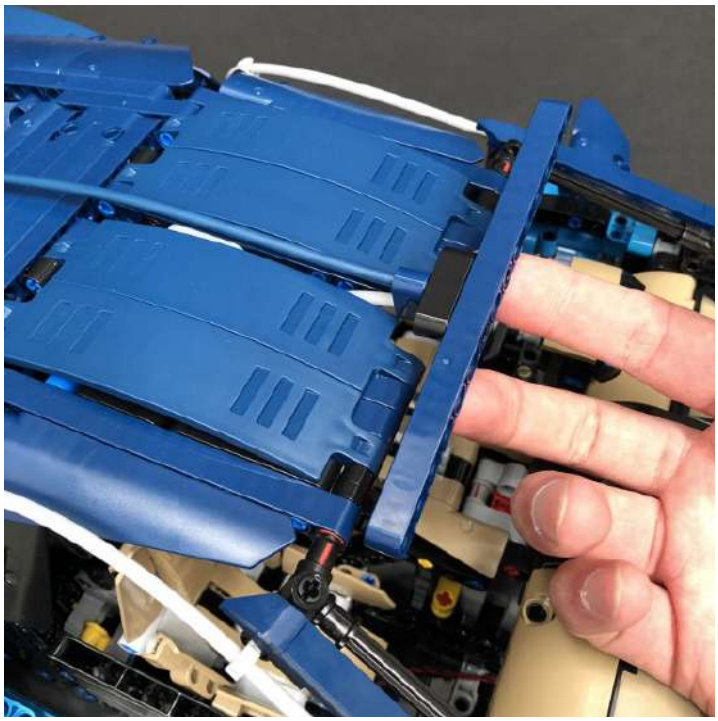
Take the **AA Battery Pack** and insert 3x AA Batteries to it. Connect the battery pack cable to the expansion board and then turn it ON to verify all lights are working OK.



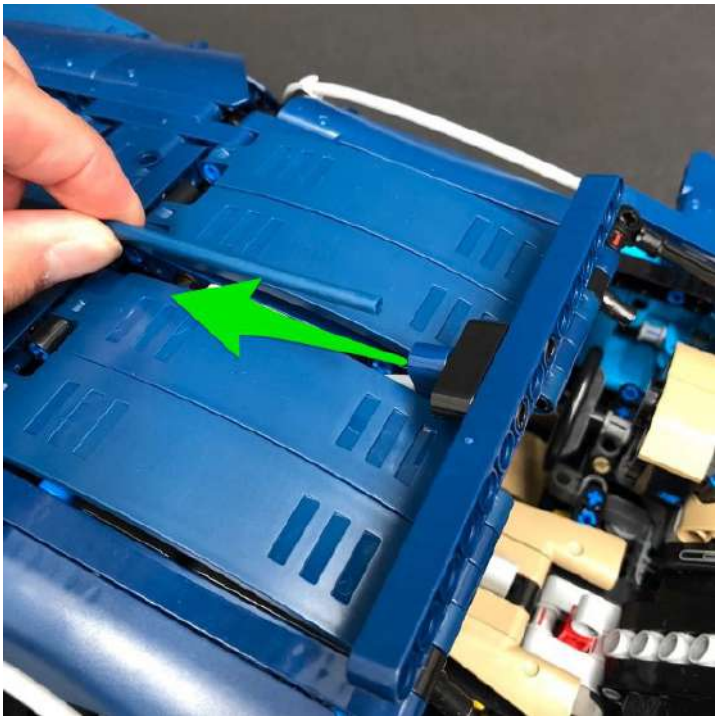


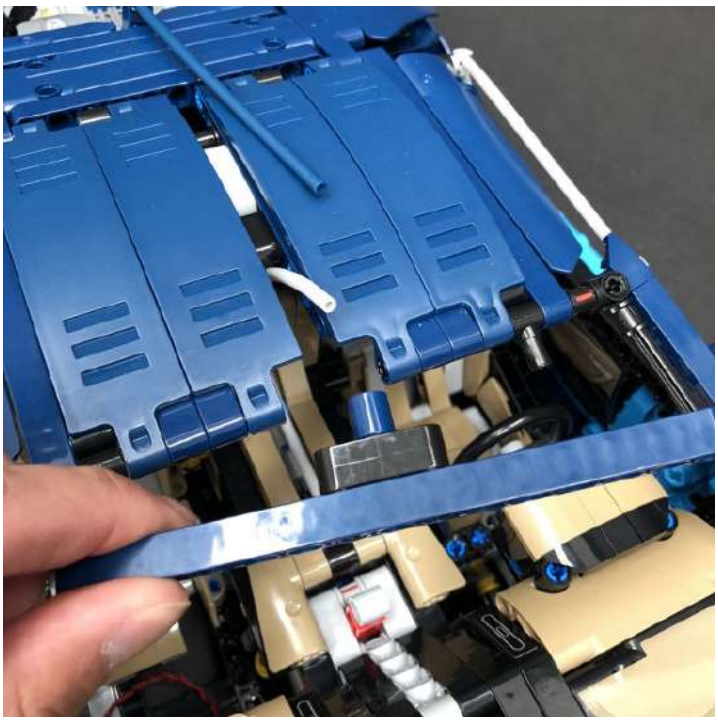
9.) We will now install one of the light bars to the inside of the Bugatti Chiron. First remove the blue technic brick and connected pieces from the front by disconnecting it from the two black pins and then pulling it out.



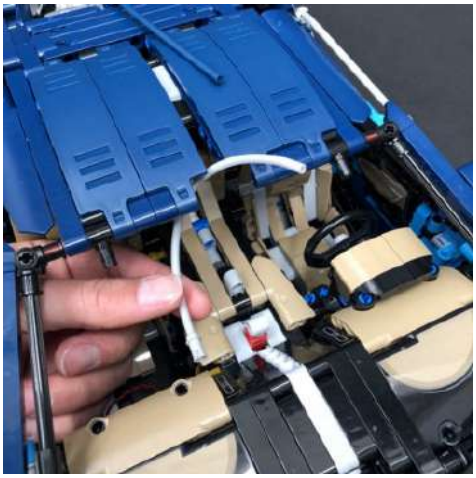


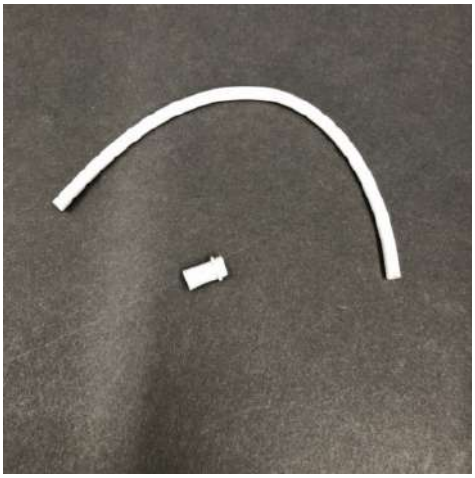
Push the blue technic bar that runs along the centre back and then disconnect the blue technic brick and connected pieces from the light grey technic bar.



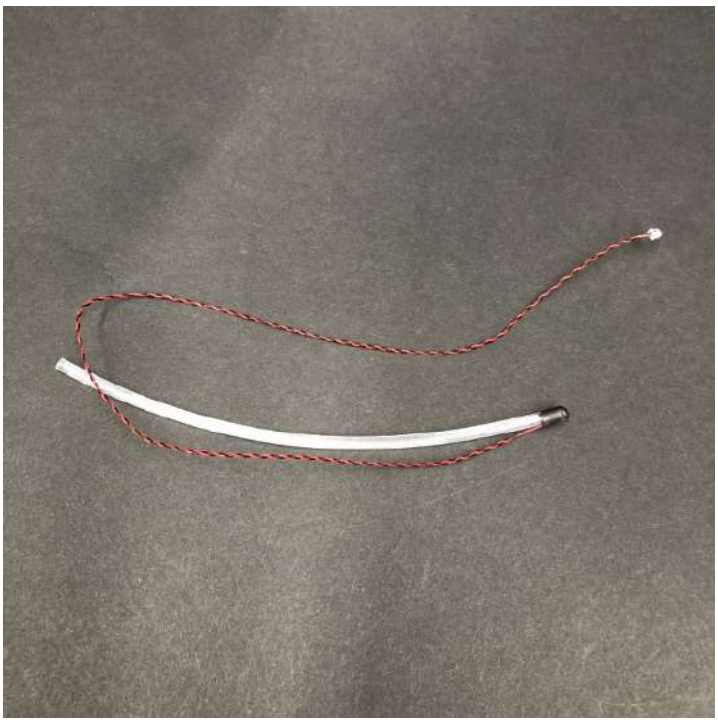


Remove the light grey technic bar and then disconnect the technic pin from the bottom of it.

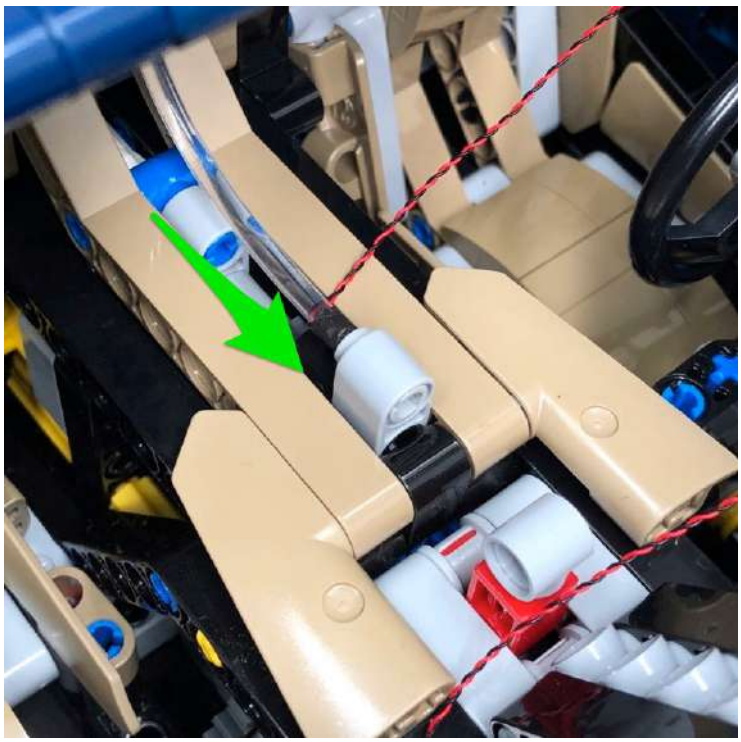




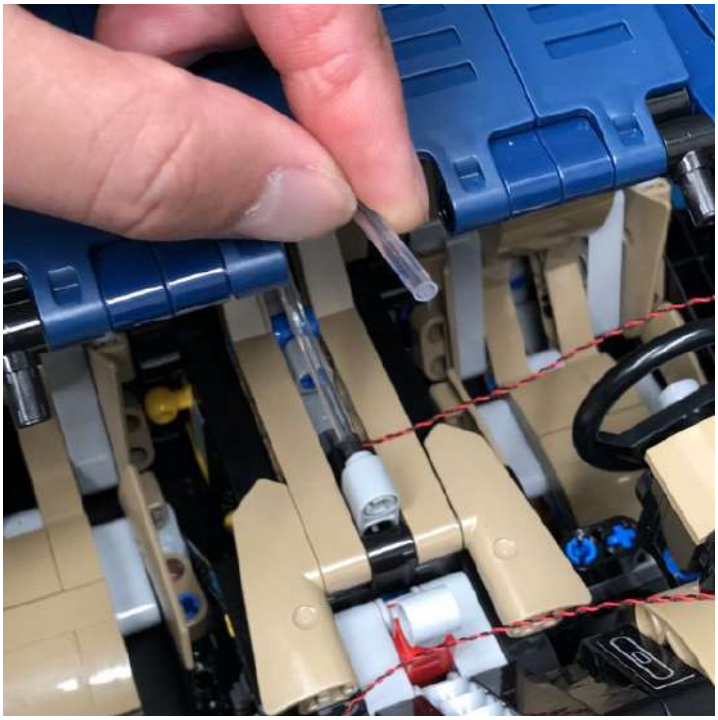
10.) Take the **Cool White Light Bar 12.5cm** and push it in through the top of the technic pin about 4–5mm as per below. Do not forcefully push the light bar all the way in.

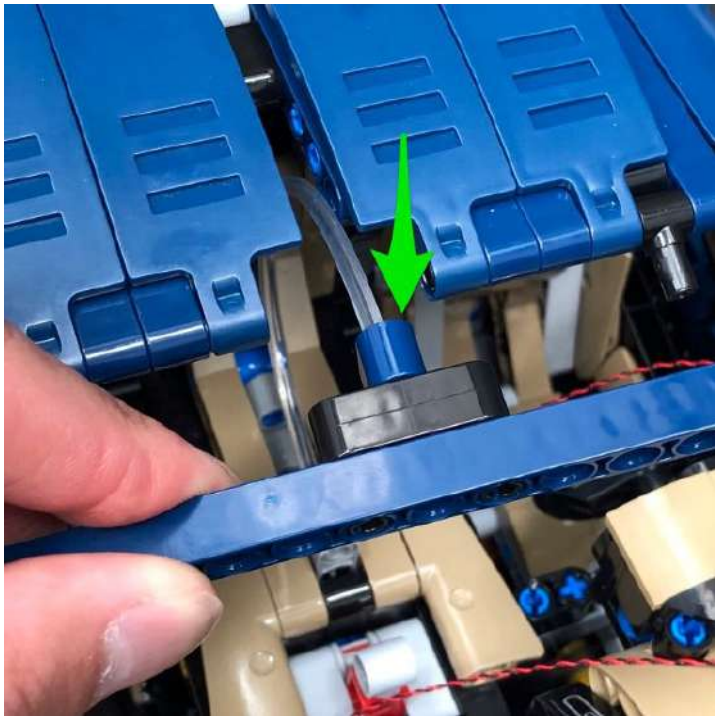


Connect the cool white light bar inside the vehicle via the technic pin ensuring the cable is on the bottom side of the bar.

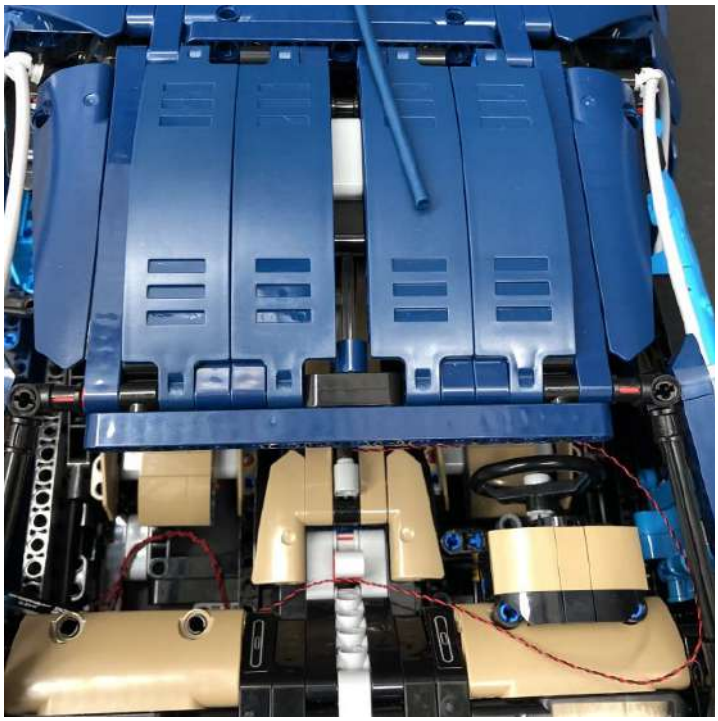


Carefully bend the light bar inward before connecting it to the blue technic brick.



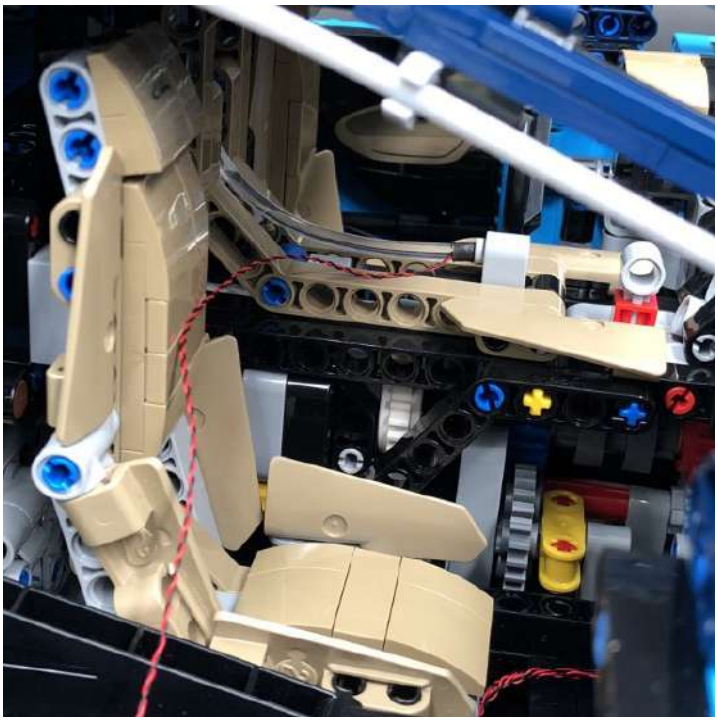


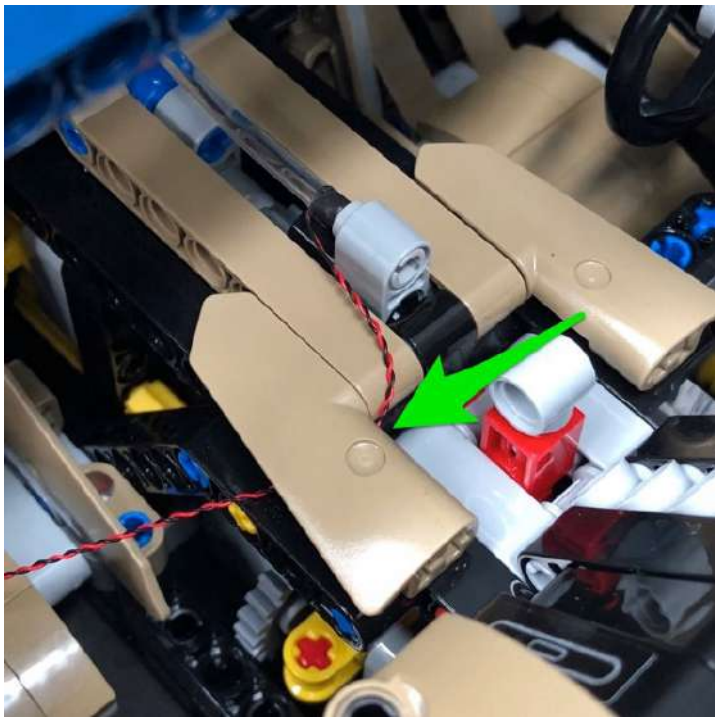
Reconnect this section back to the vehicle using the two black technic pins.

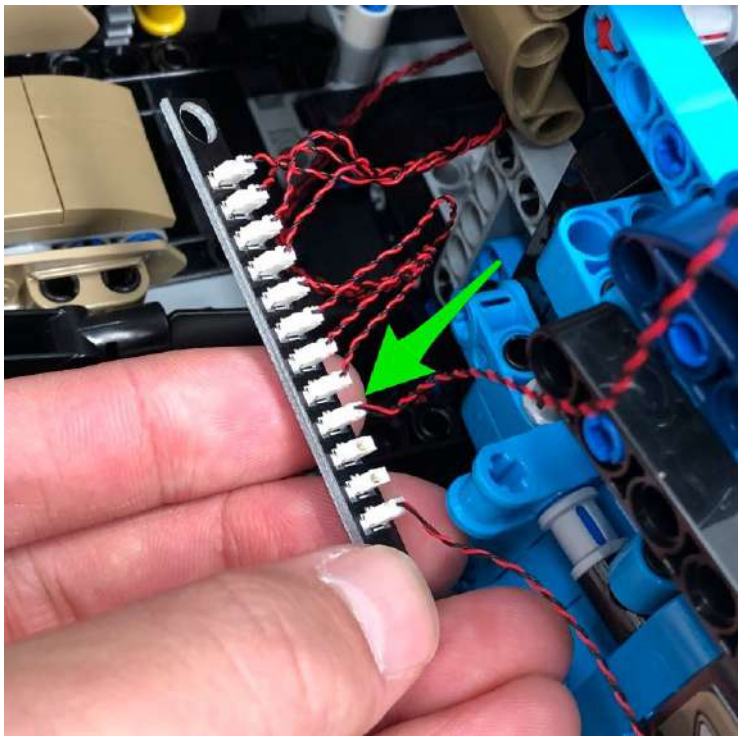


Push the blue technic bar back into place.

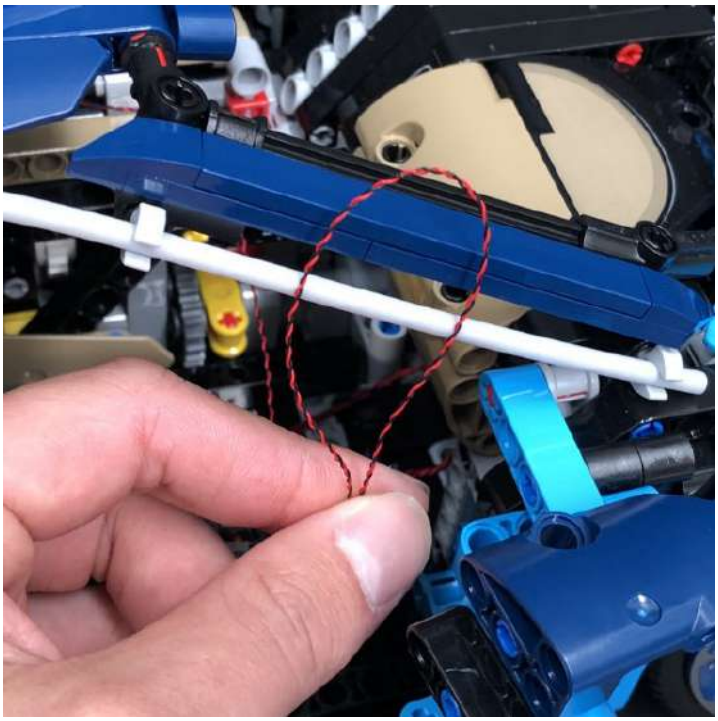
11.) Thread the Light Bar cable underneath the following technic piece and then connect it to a spare port on the 12-port expansion board.

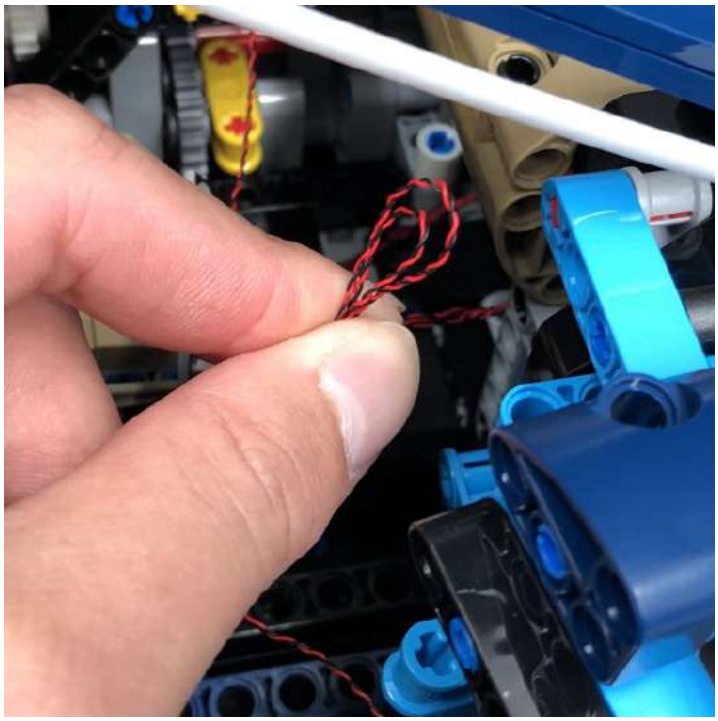


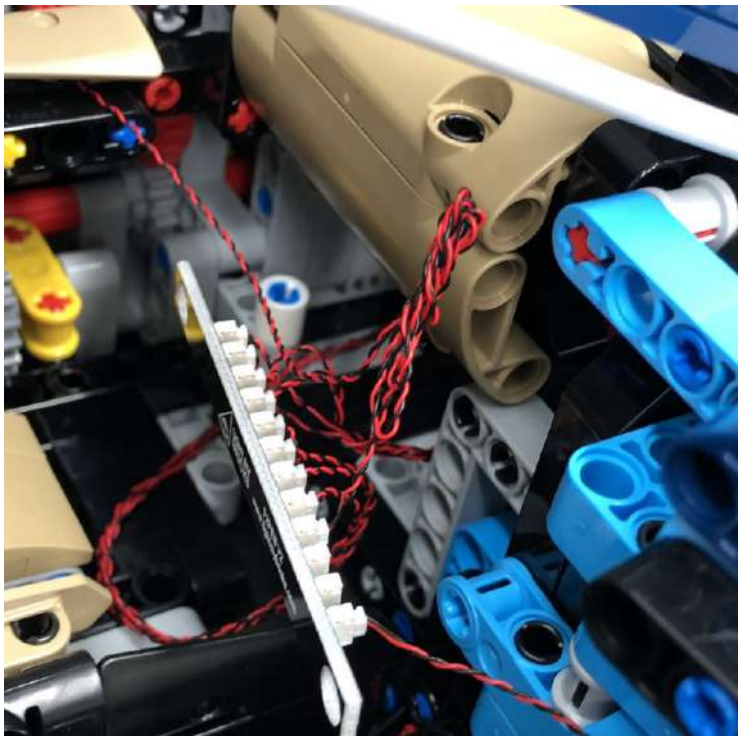




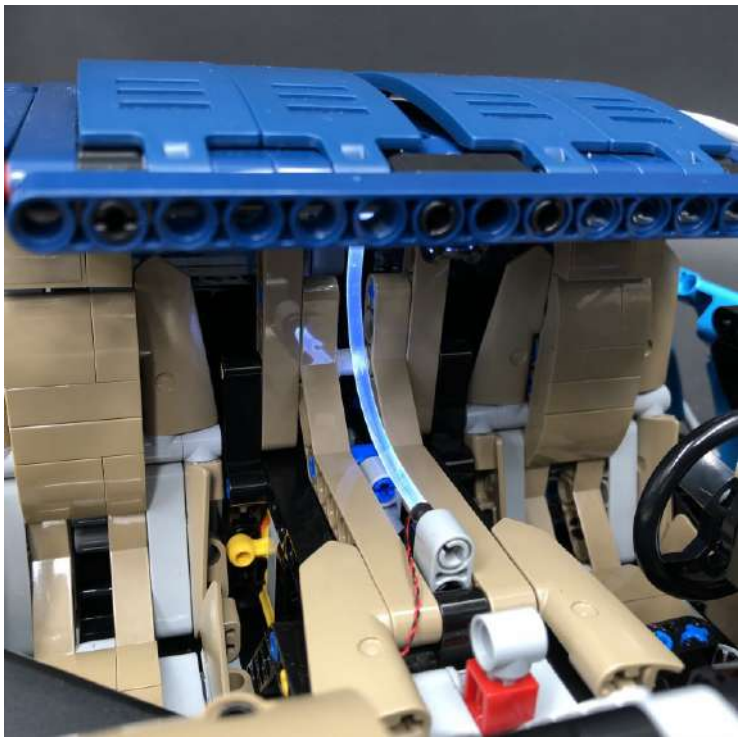
Eliminate excess cable from the light bar by folding the cable over twice and then twisting it around each other a few times as per below.



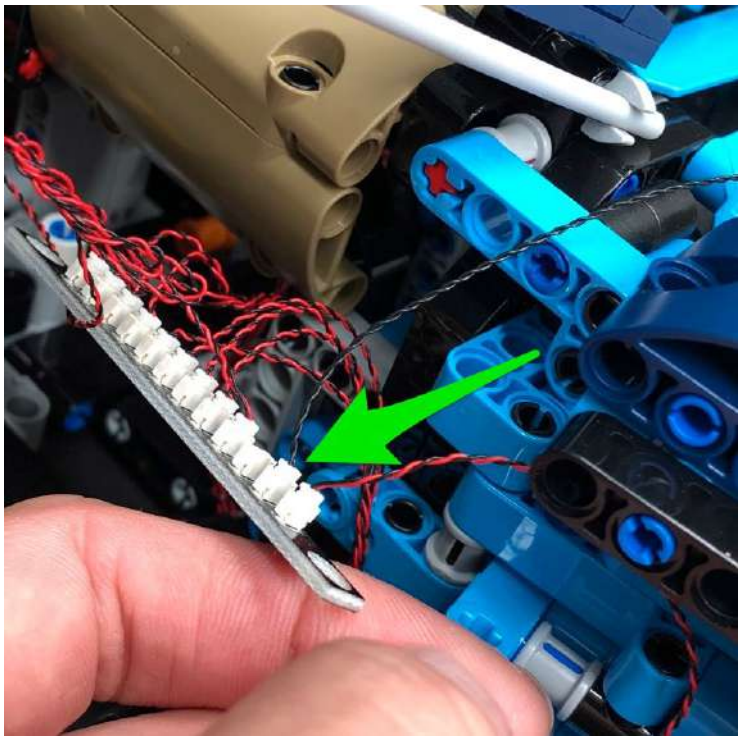




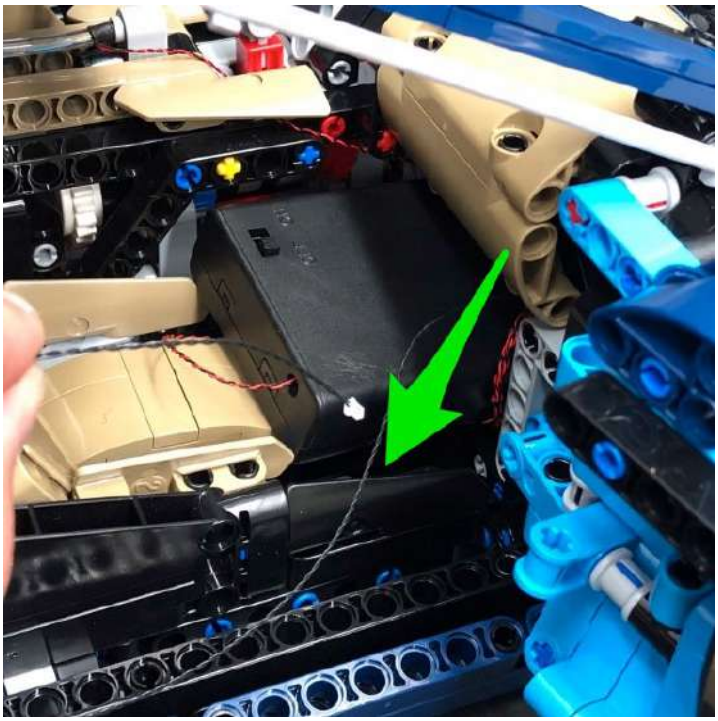
Turn the Battery Pack ON to test the internal light bar is working OK.

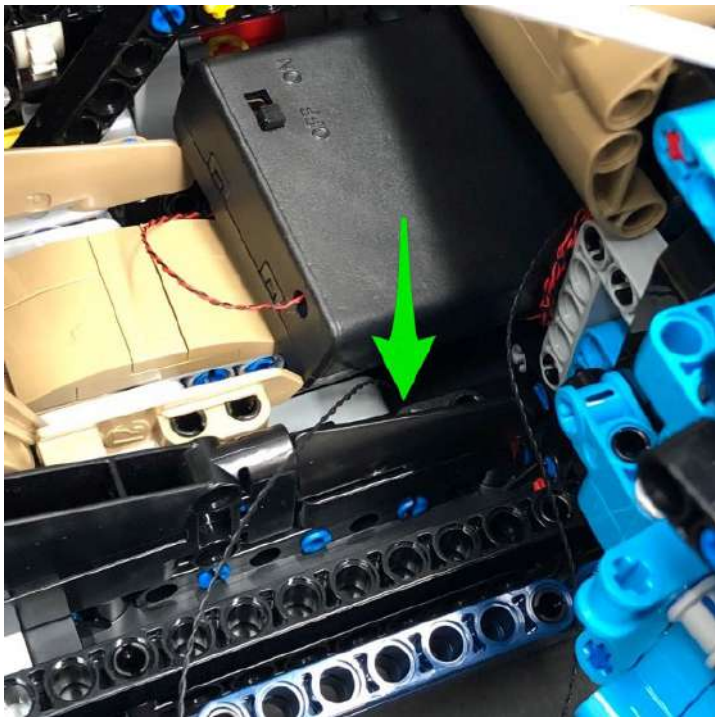


12.) Take a **30cm Connecting Cable** and connect it to a spare port on the 12-port expansion board.

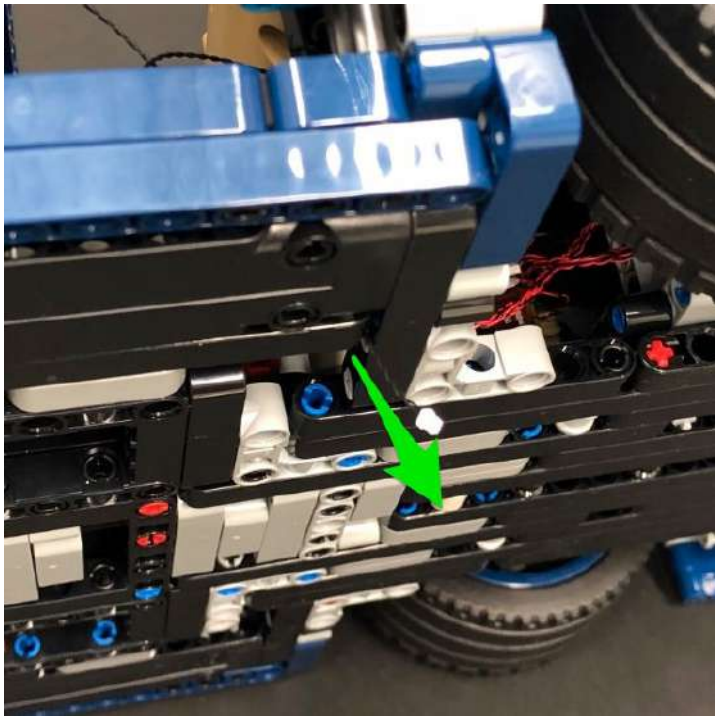


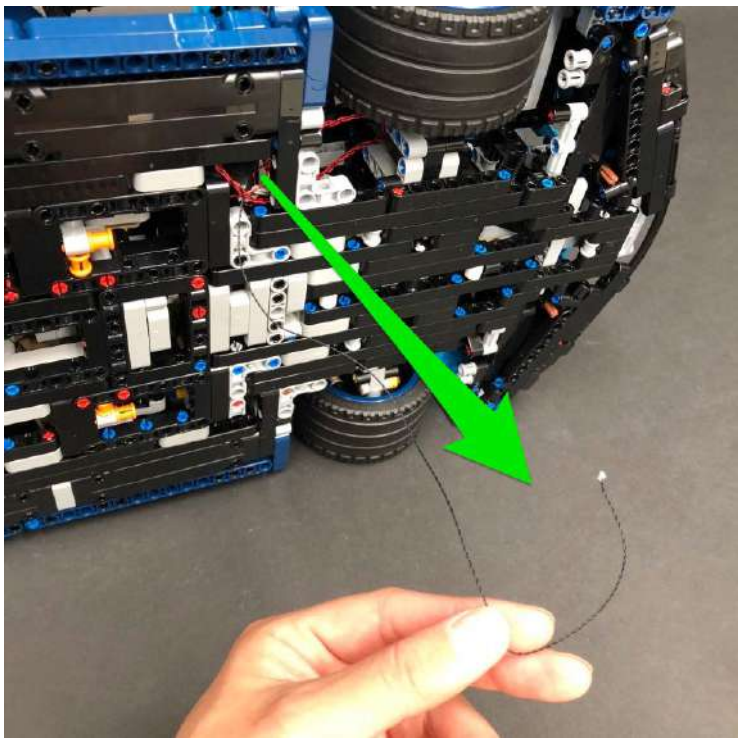
Neatly push the expansion board and cables into the passenger foot area before seating the Battery Pack over the top then thread the connecting cable down the space which leads to underneath the vehicle.



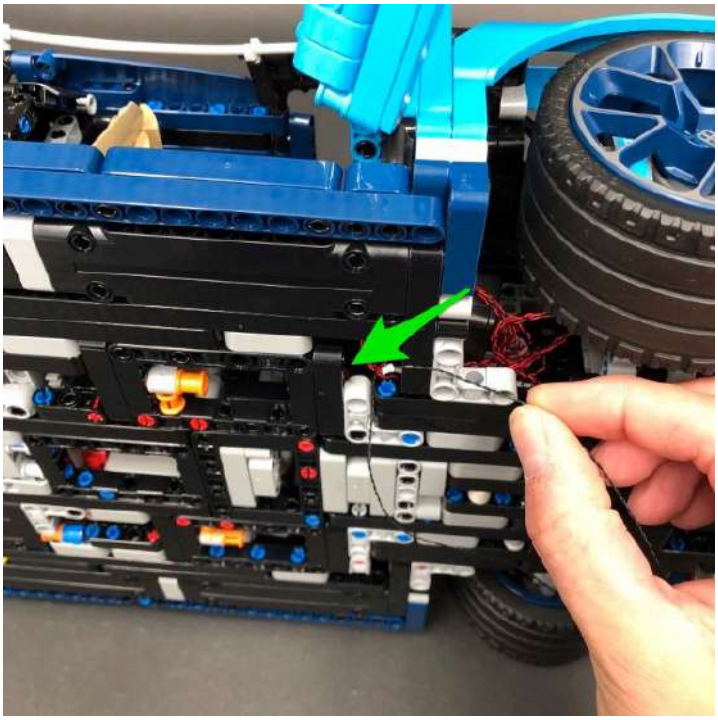


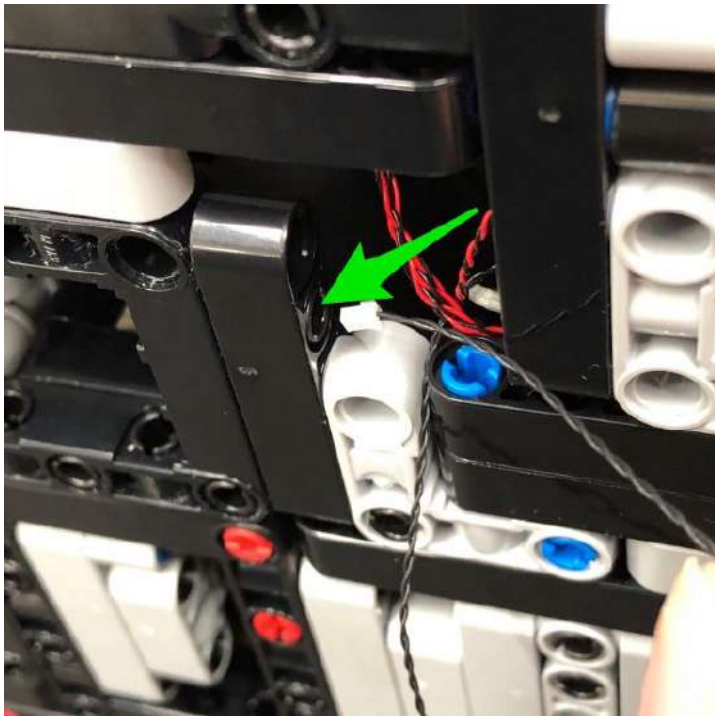
14.) Turn the Bugatti over onto it's side so that we can access underneath. Locate the cable and then pull it all the way out.

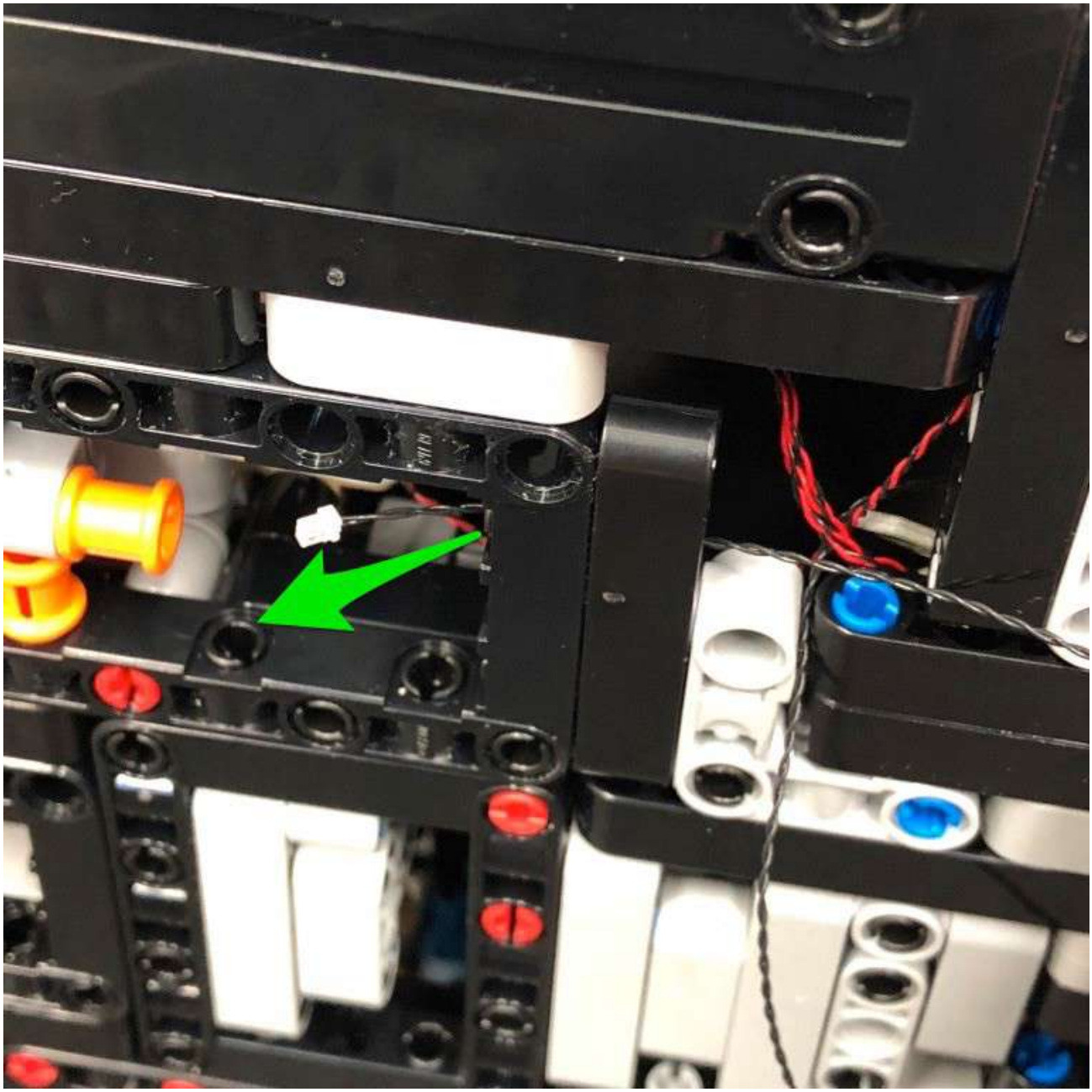




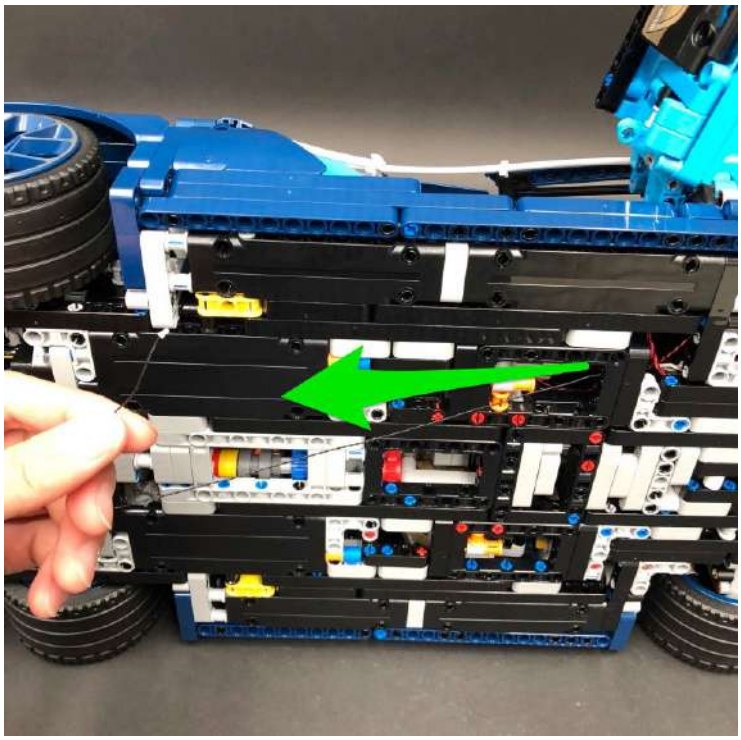
Thread the cable through the hole of the following black technic brick underneath the vehicle.

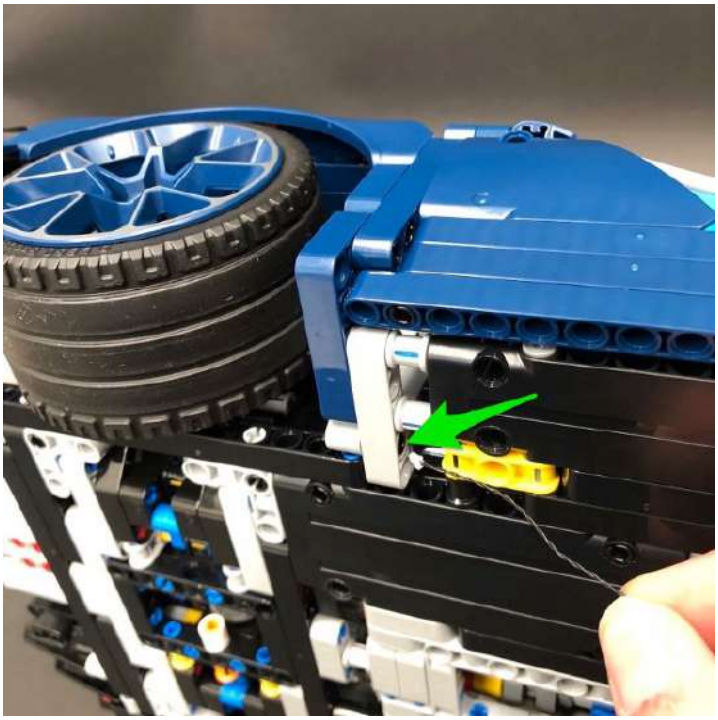


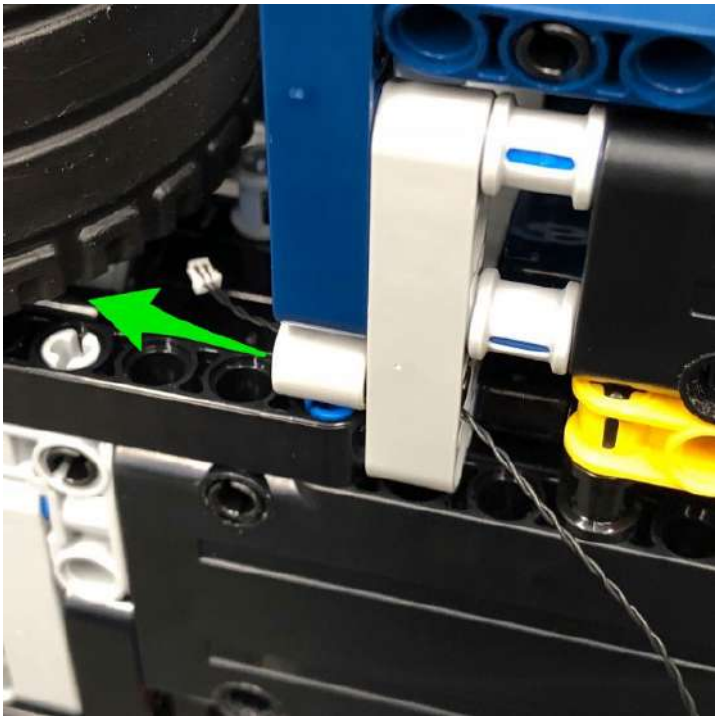


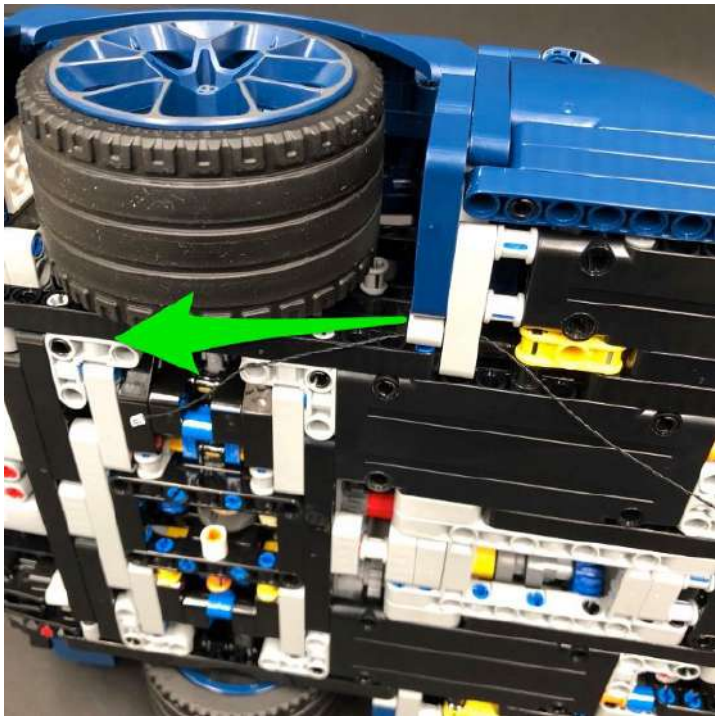


15.) Pull the cable all the way out toward the back and then thread it through the hole of the following light grey technic brick

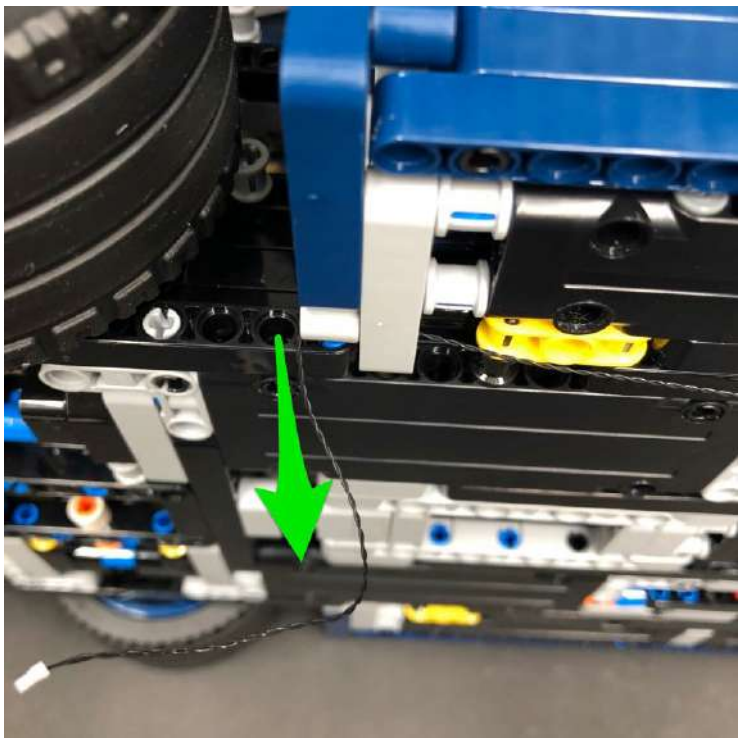


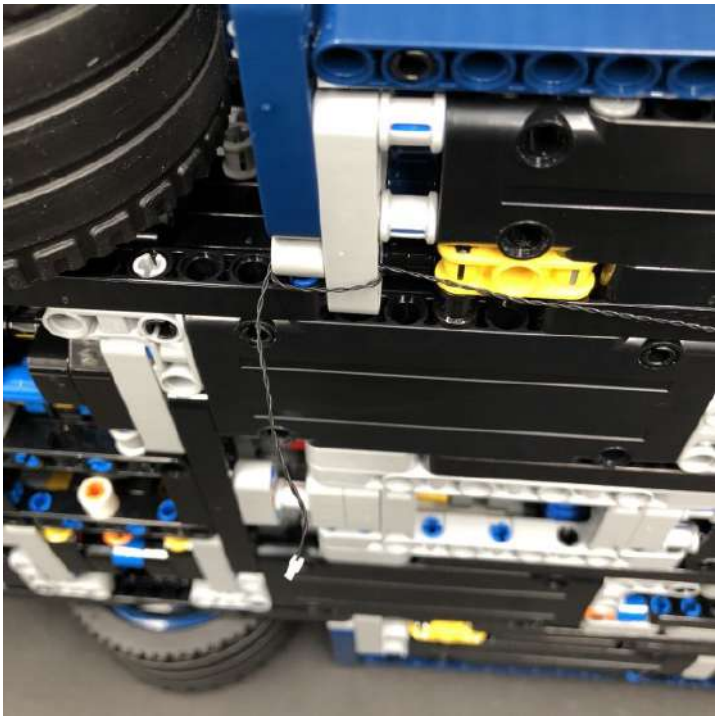


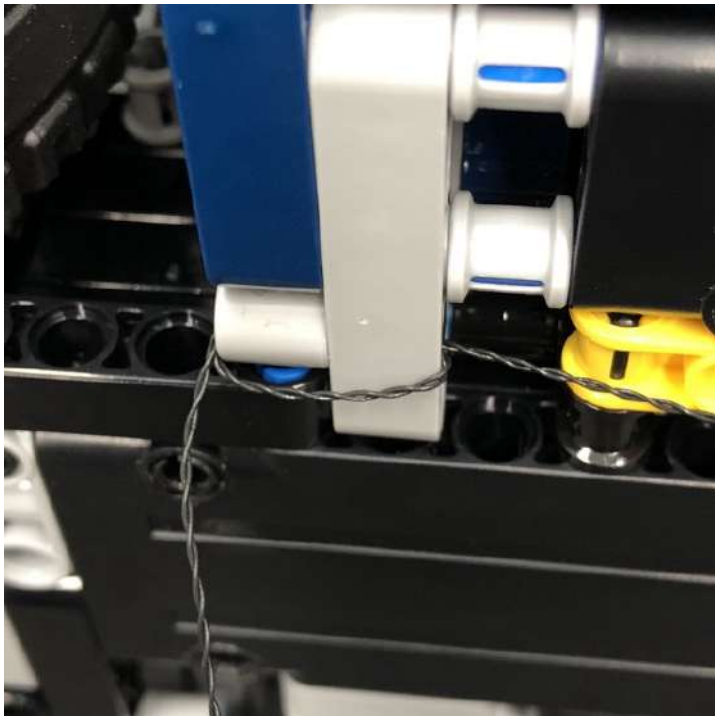




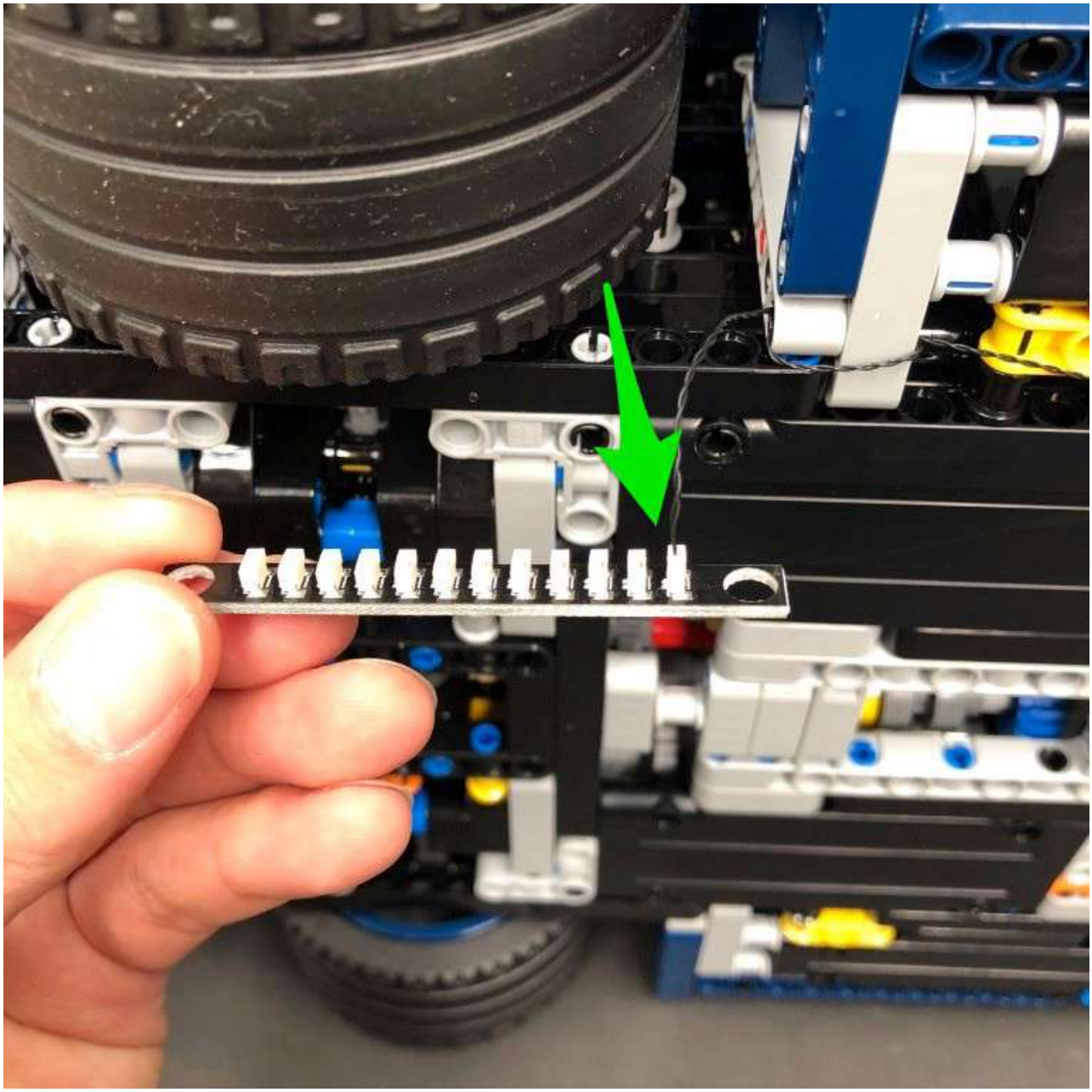
16.) Pull the cable all the way out and then pull it down tight before looping it through the same hole again.



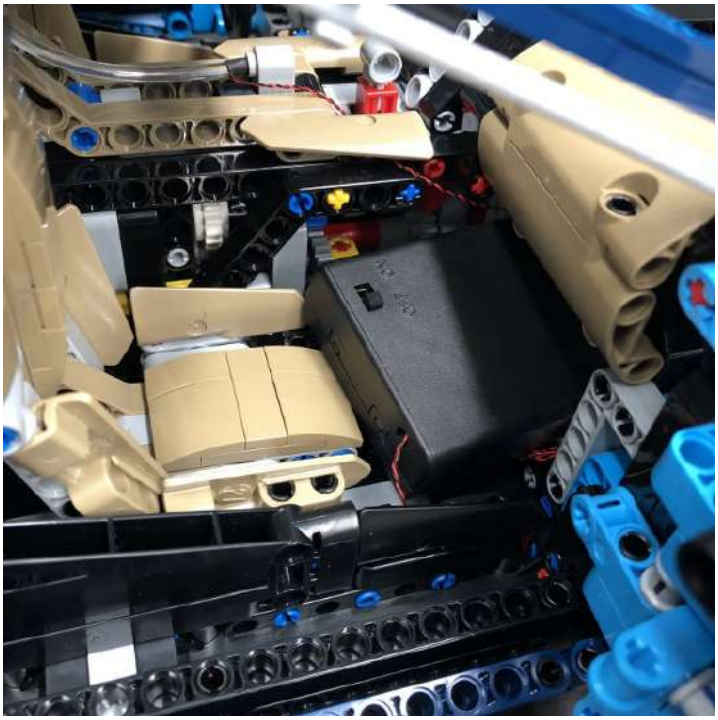




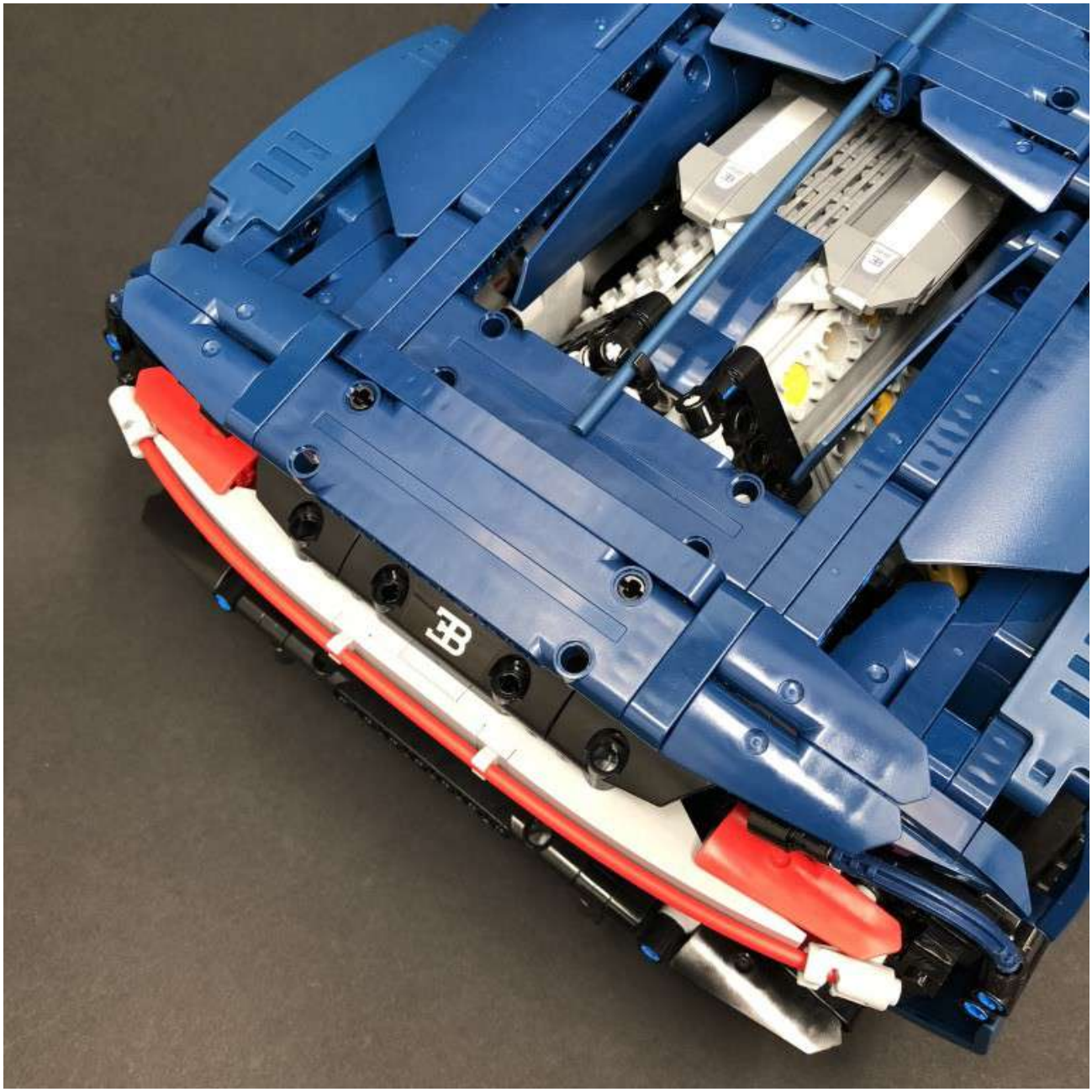
Connect the cable to the second **12-Port Expansion Board**

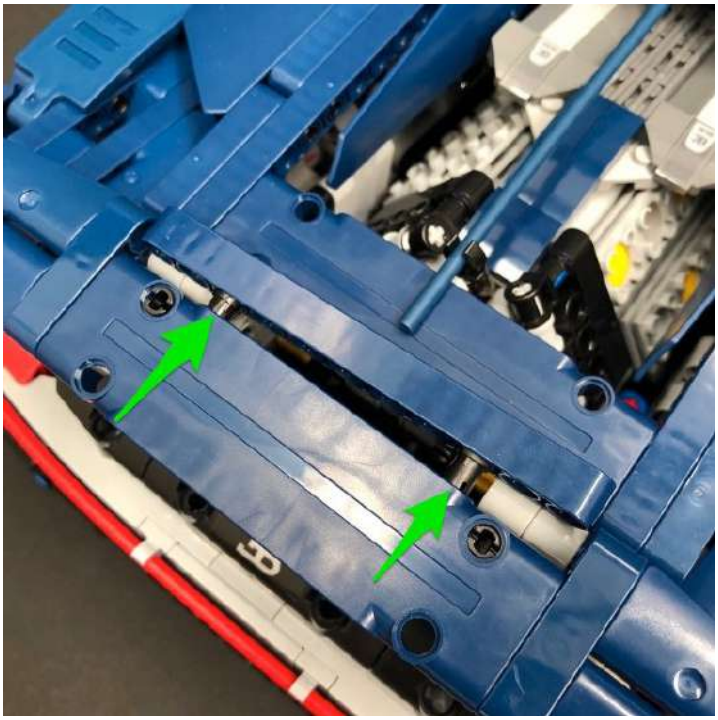


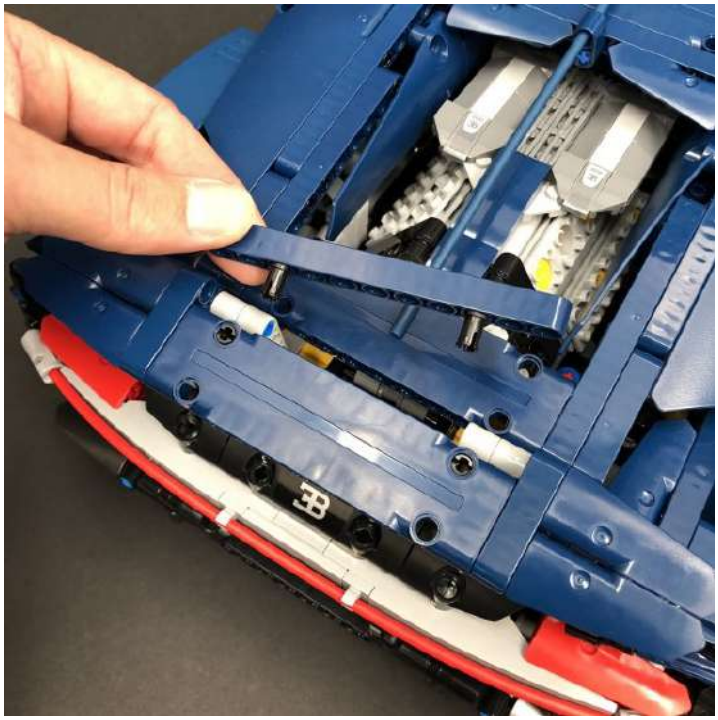
17.) Check that the AA Battery Pack is neatly seated inside the Bugatti and that there is no visible cabling before closing the passenger door.

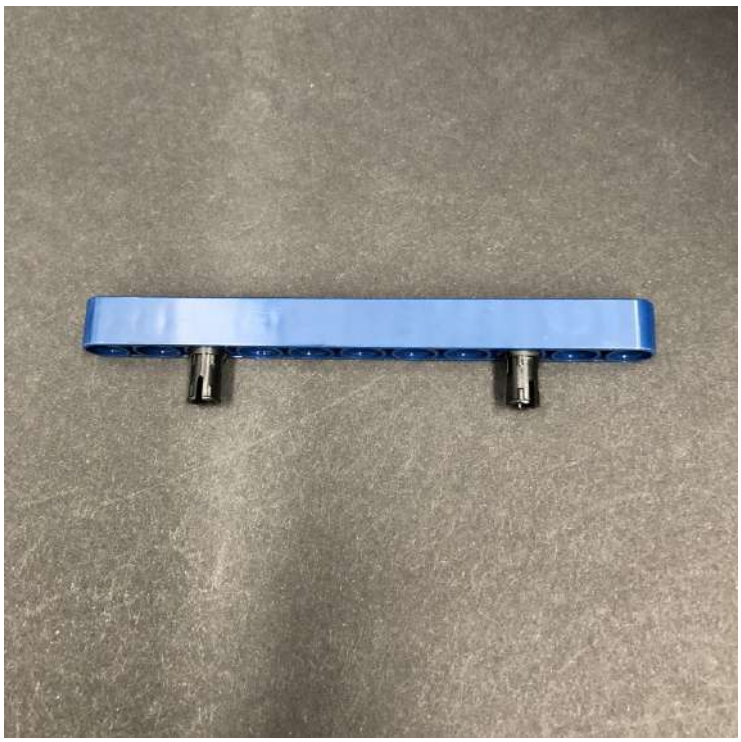


18.) Disconnect the blue technic brick from the back of the spoiler at the two black pins as shown below



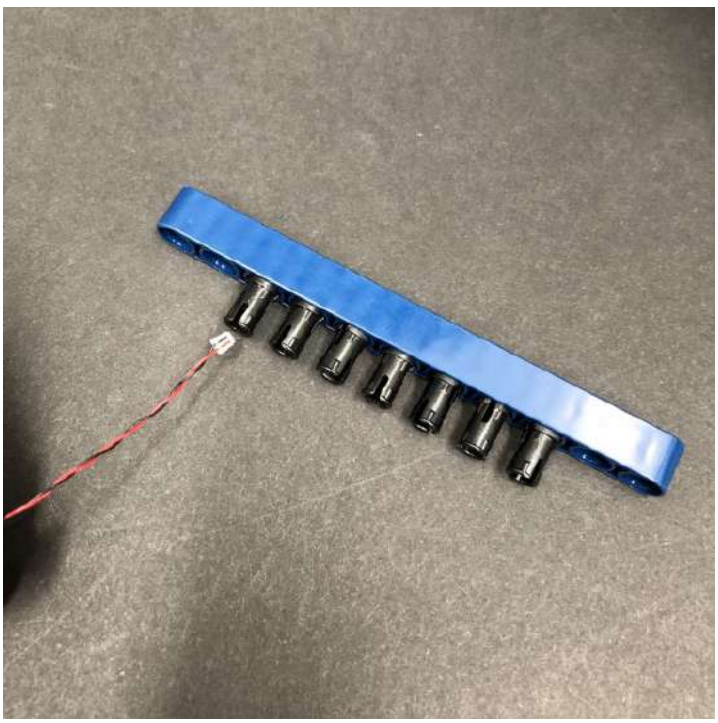


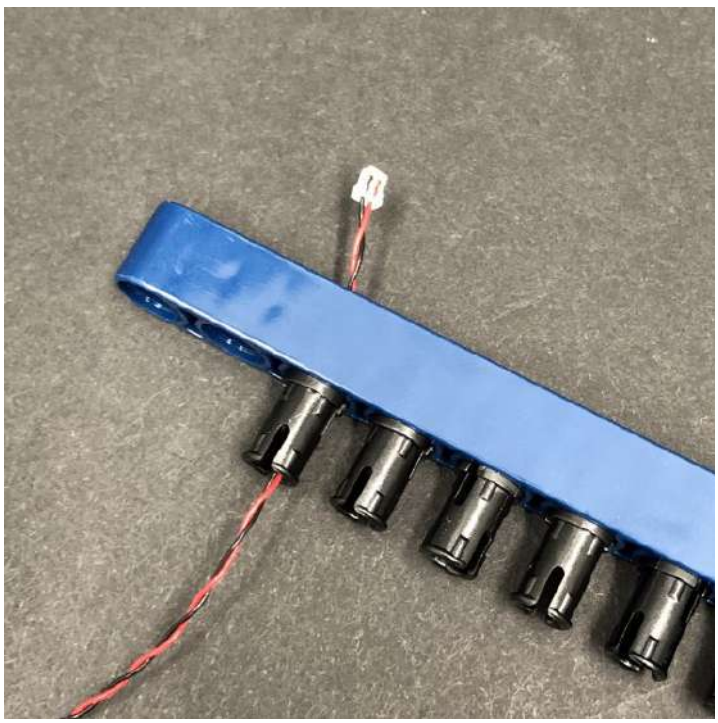


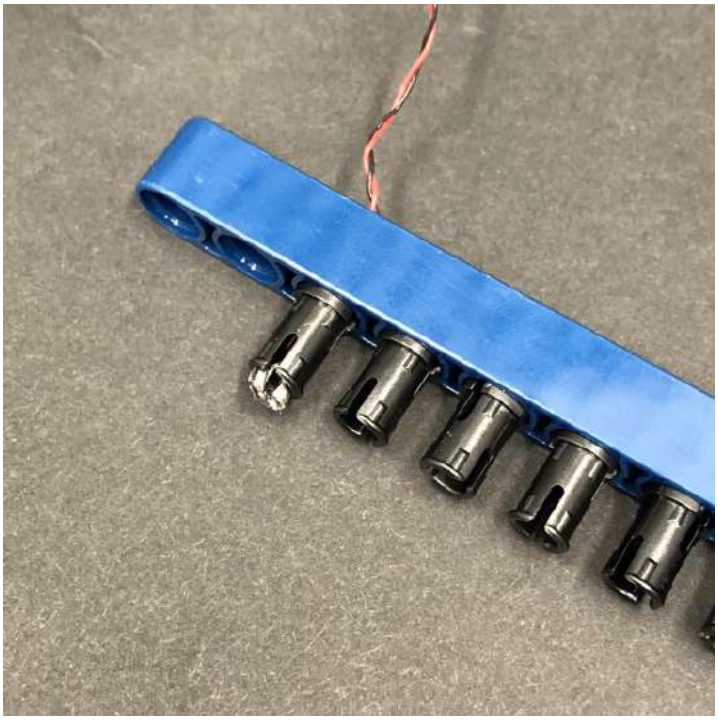


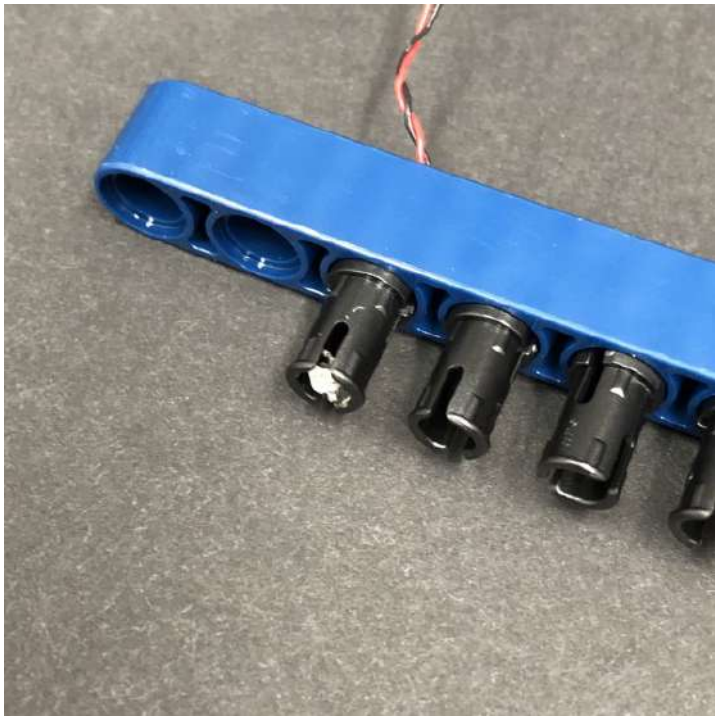
Take the **5x Provided Lego Technic Pin with Friction Ridges Lengthwise WITH Center Slots (Black)** and connect them to the 5 inner holes of the blue technic brick

19.) Take a **Red 30cm Bit 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 Bit Light on a 90 degree angle before pushing it inside the technic pin.

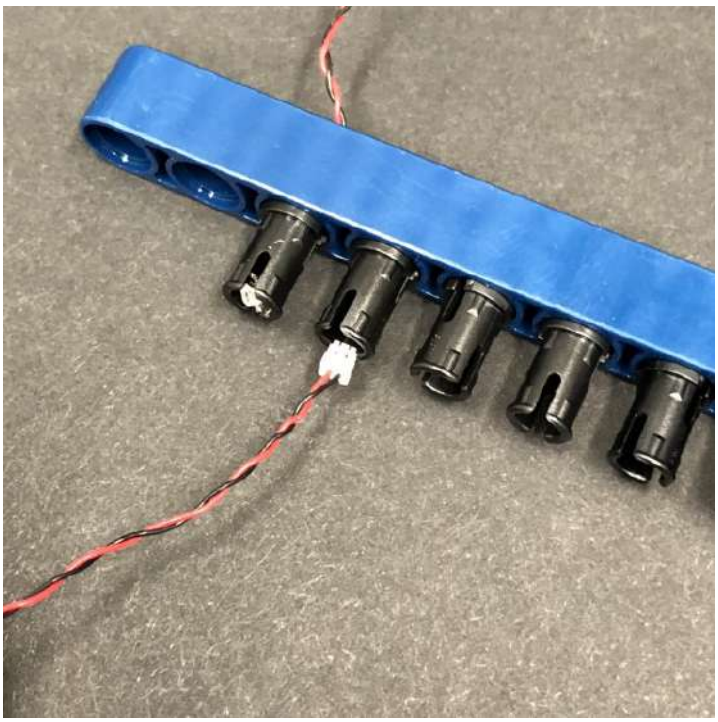


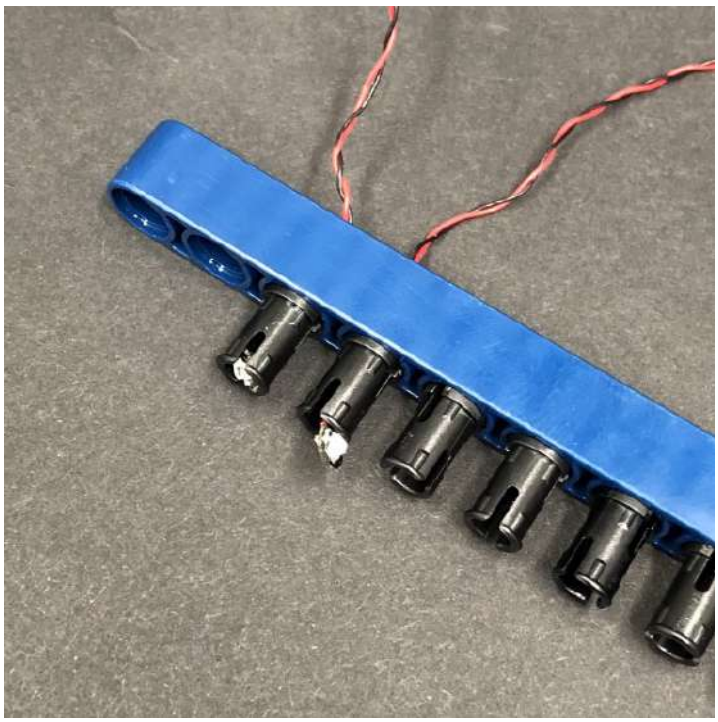


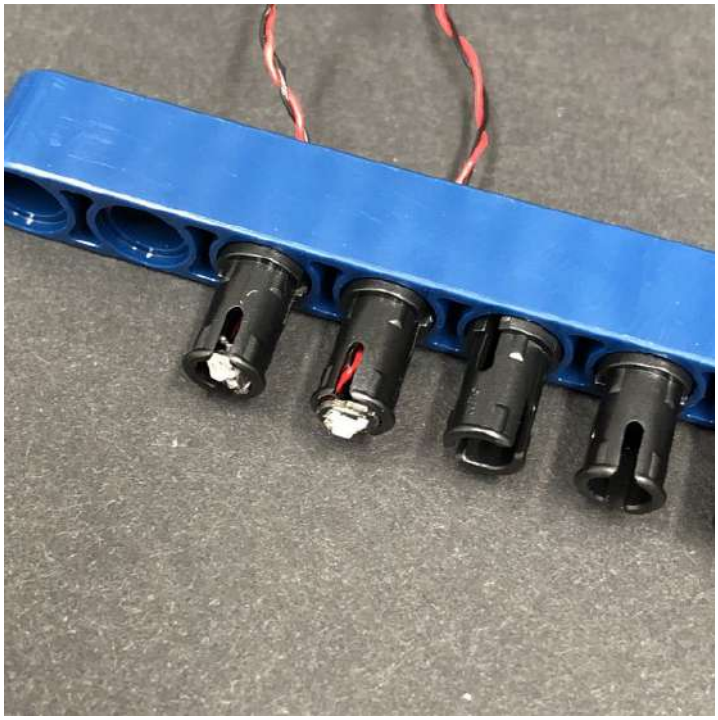




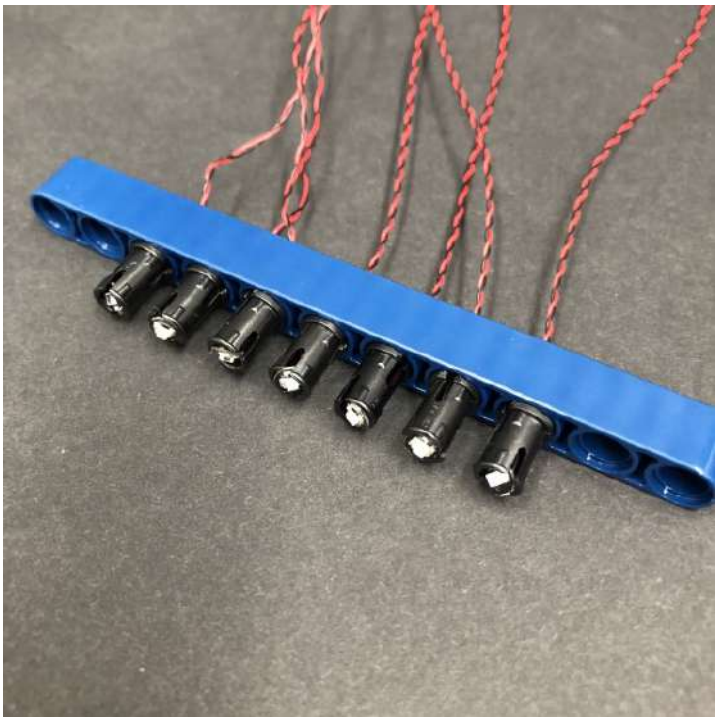
Take another **Red 30cm Bit Light** and thread it through the second technic pin. Thread it all the way through and then slightly bend the Bit Light on a 90 degree angle before pushing it inside the technic pin.

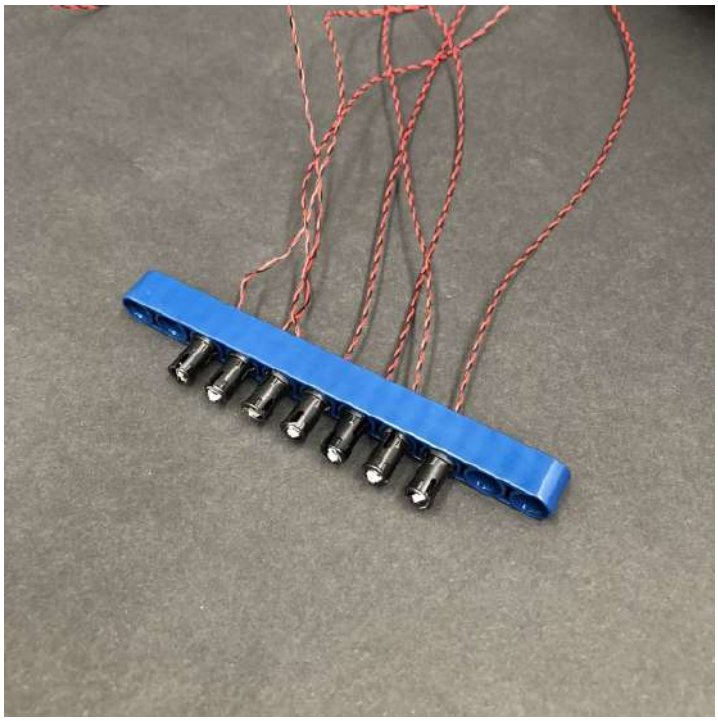




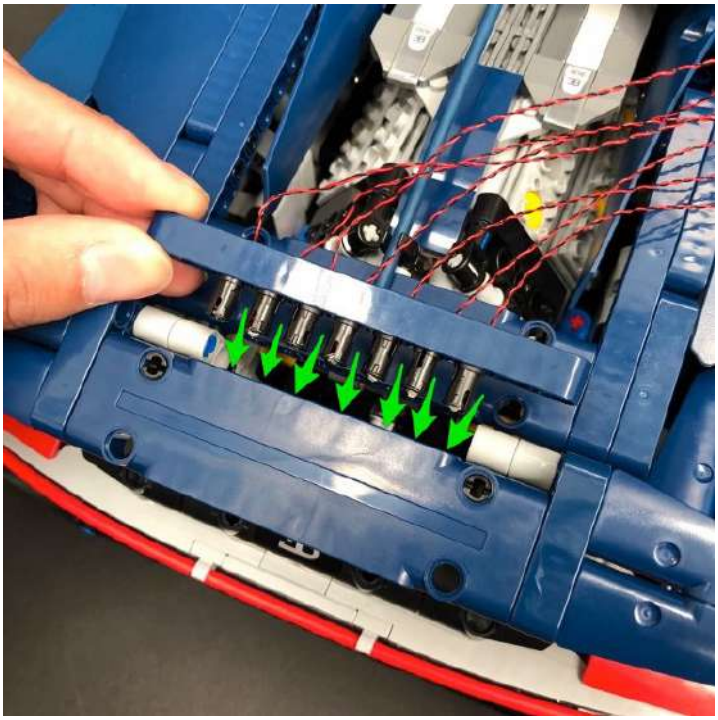


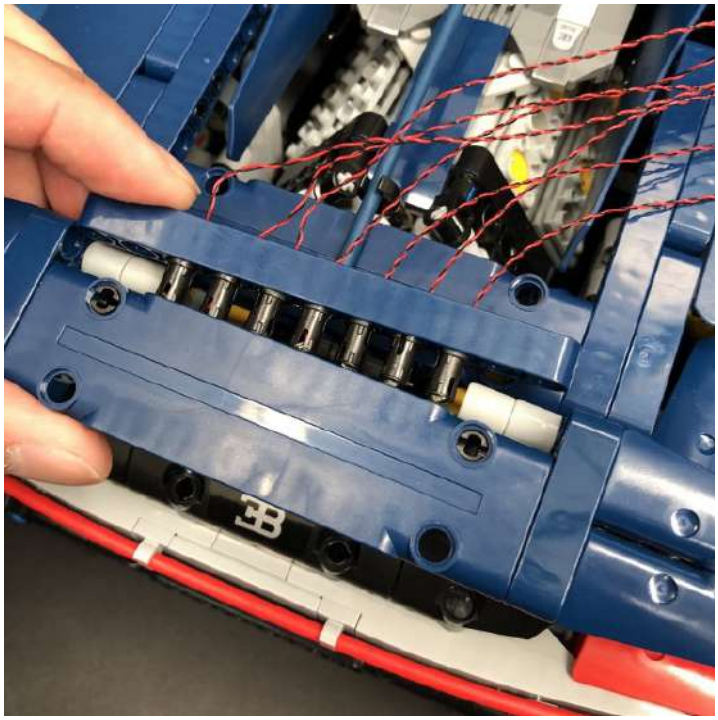
Repeat this process to install the remaining **5x Red 30cm Bit Lights** to the rest of the technic brick.

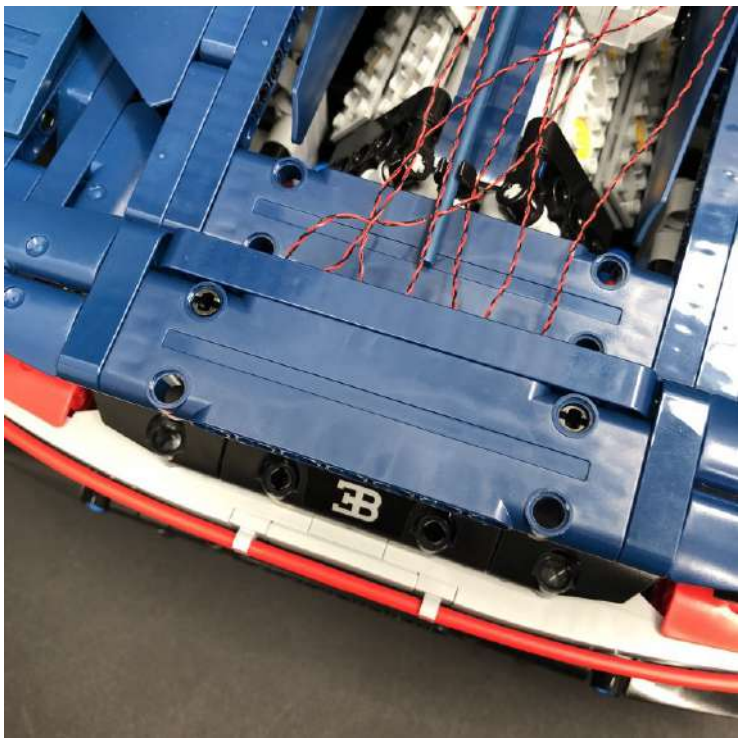




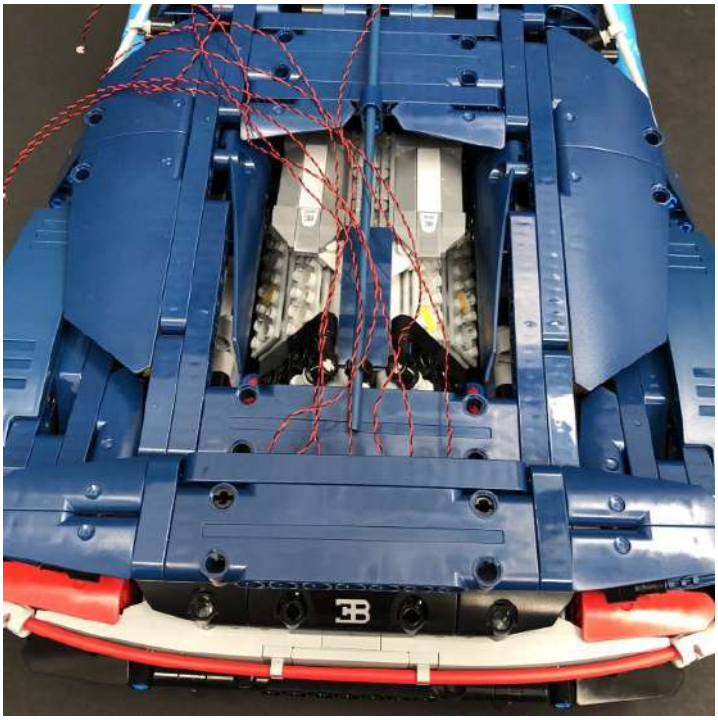
20.) Reconnect the technic brick to the back of the spoiler ensuring all technic pins are carefully connected.

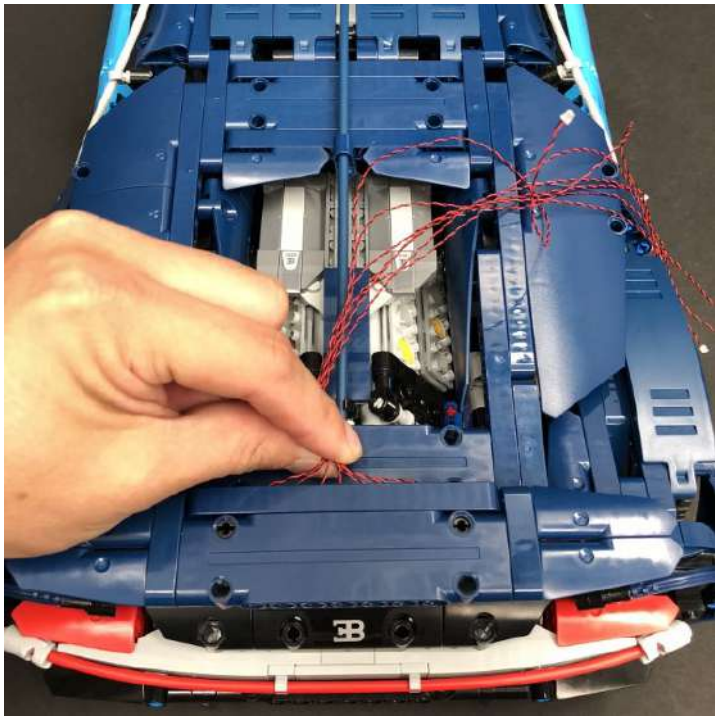


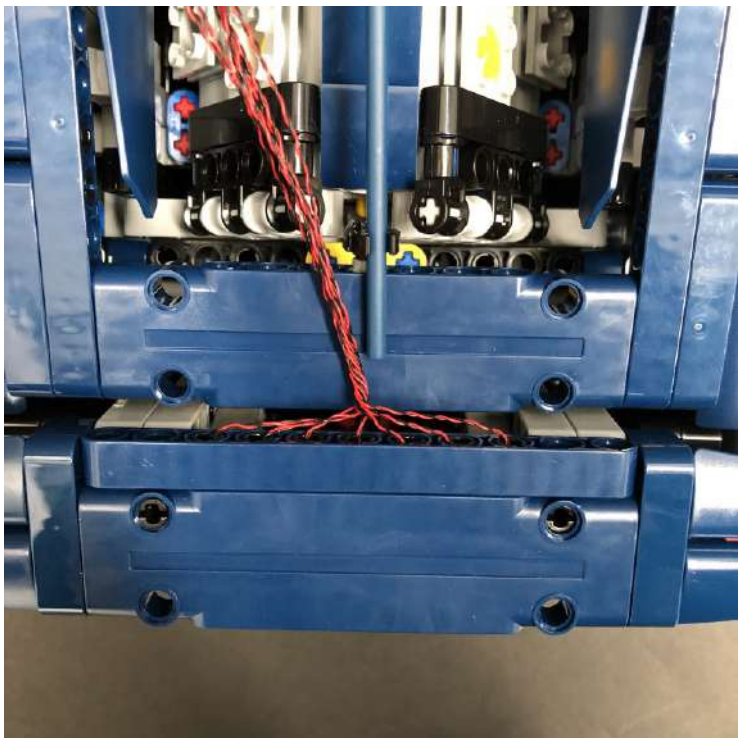




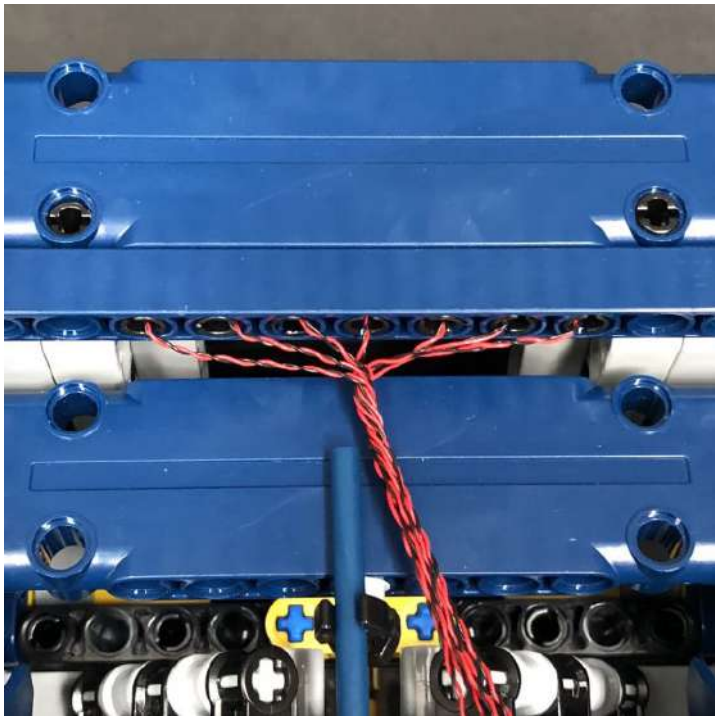
Group all the cables closest to the back of the spoiler and then twist them around each other to tighten and secure them together.



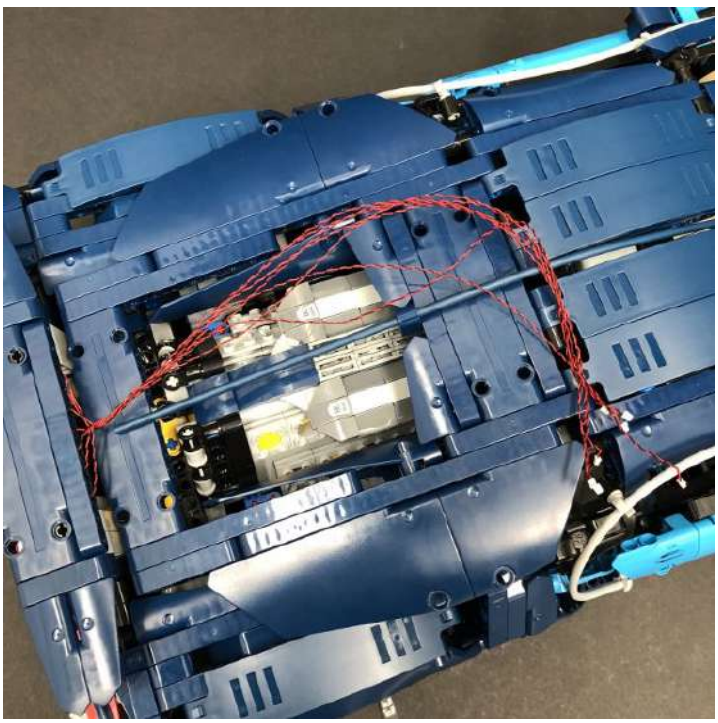


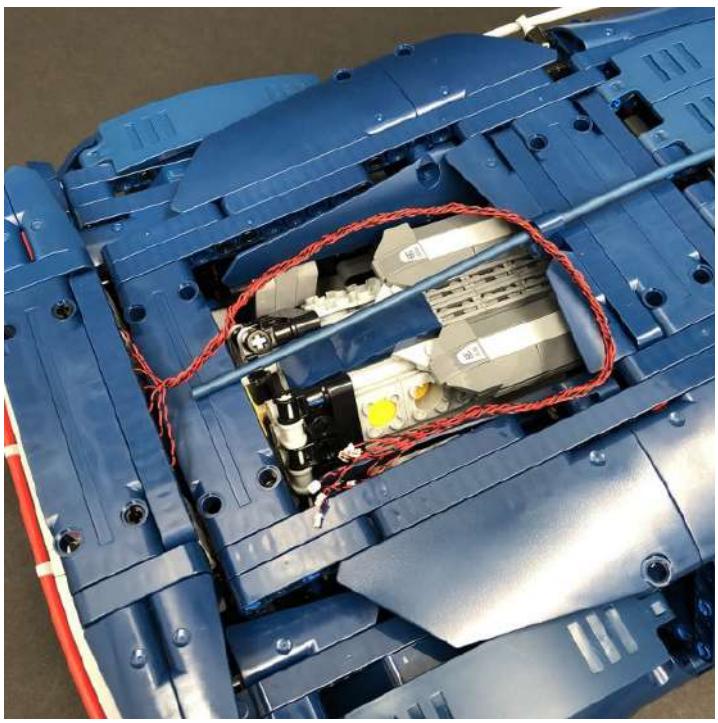


Turn the vehicle around and ensure the cables are twisted right to the edge of the spoiler as shown below.



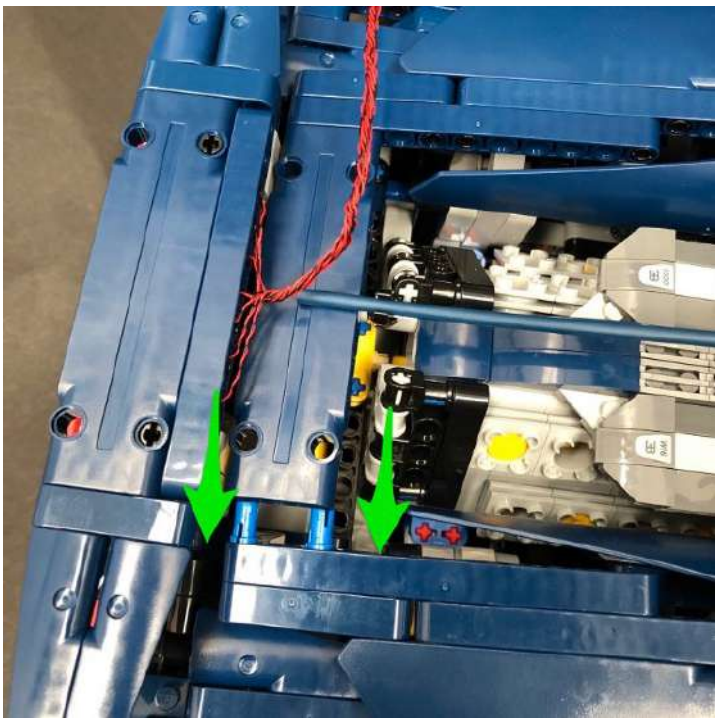
Continue to twist all the cables around each other all the way to the end to form one larger cable.

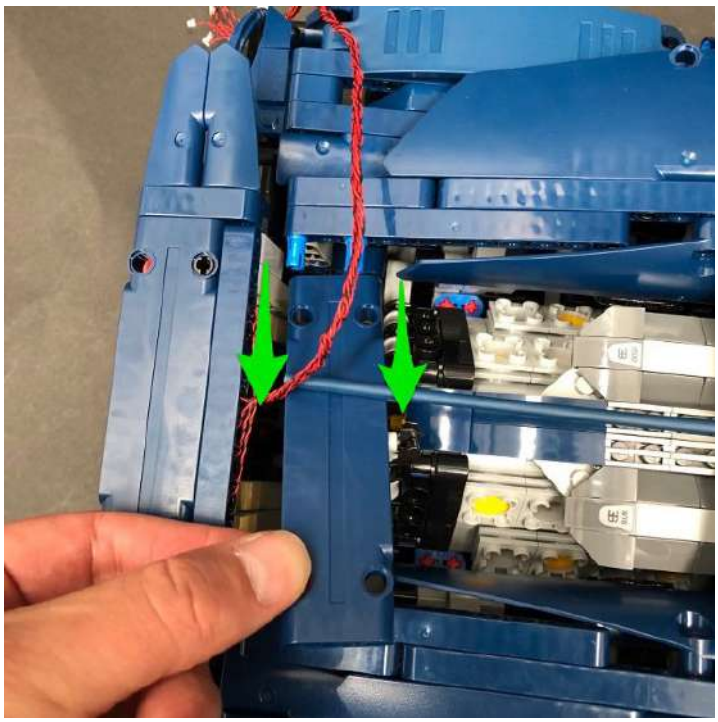


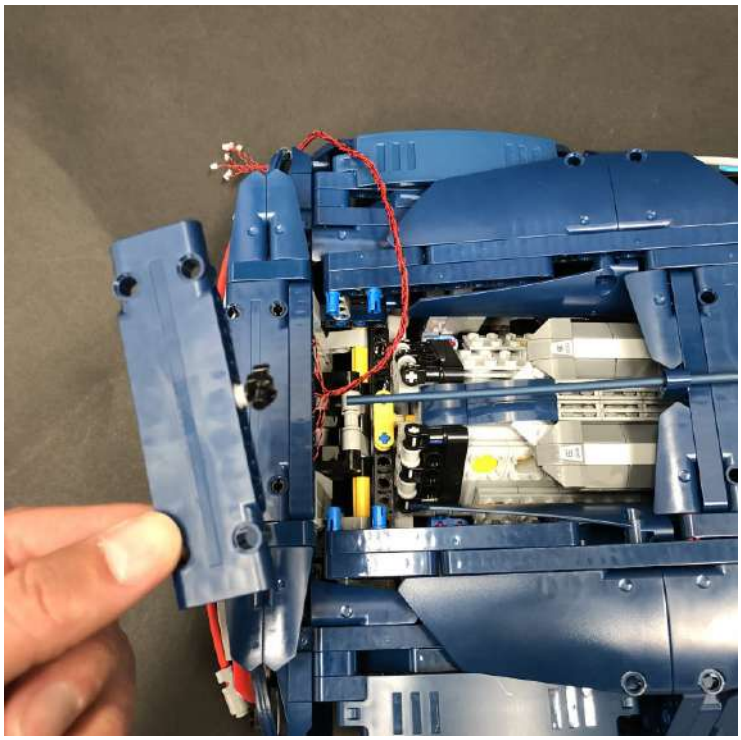


21.) Flip the Bugatti over onto it's side and then disconnect the back right wheel.

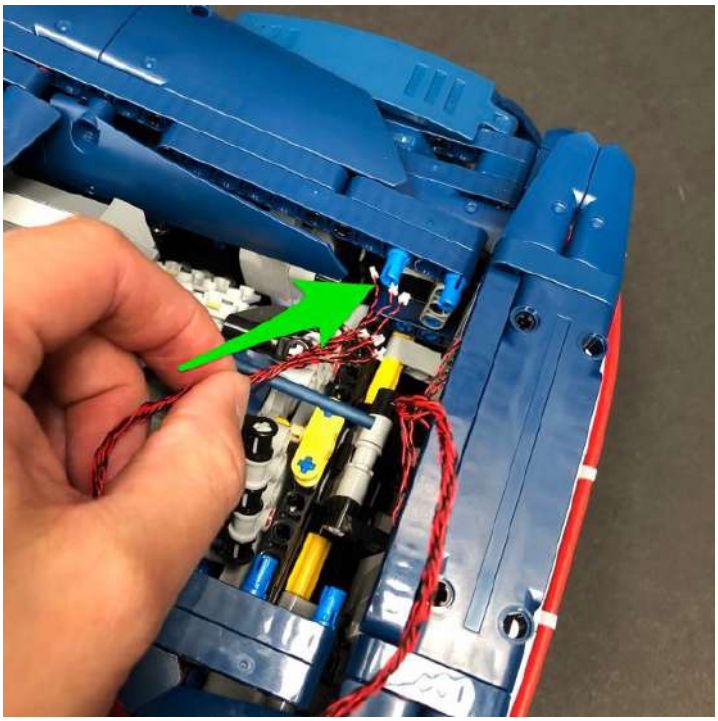
Flip the Bugatti back over and then unclip the blue technic bar and then remove the flat technic piece along the back of the vehicle by disconnecting the two pins from each side.

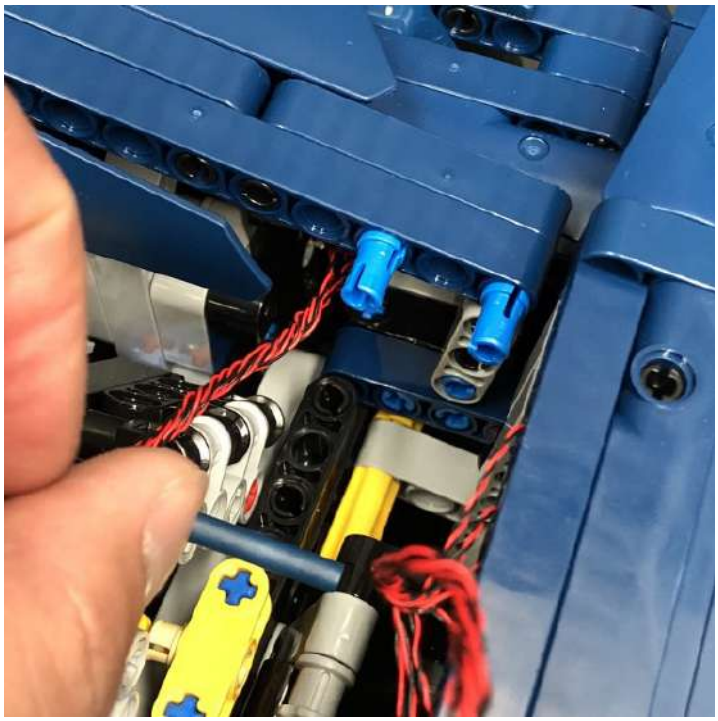


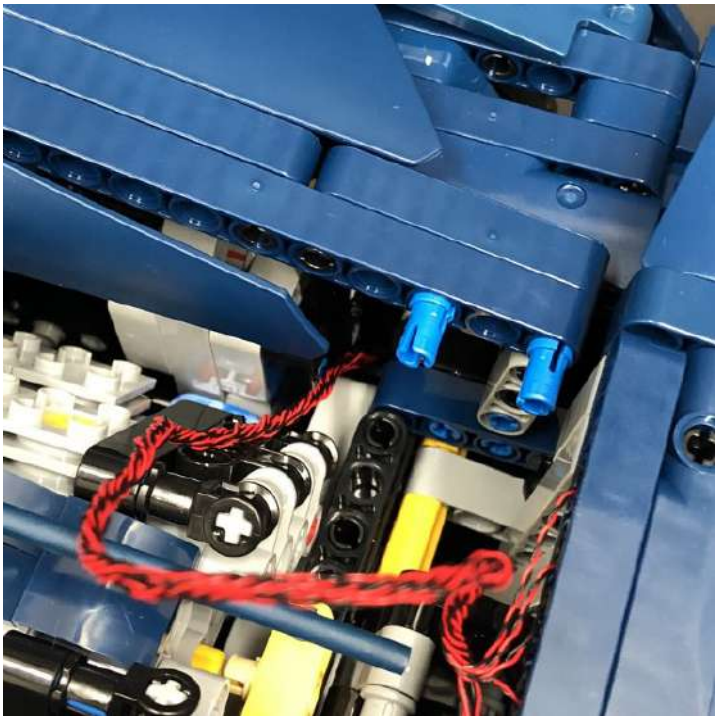


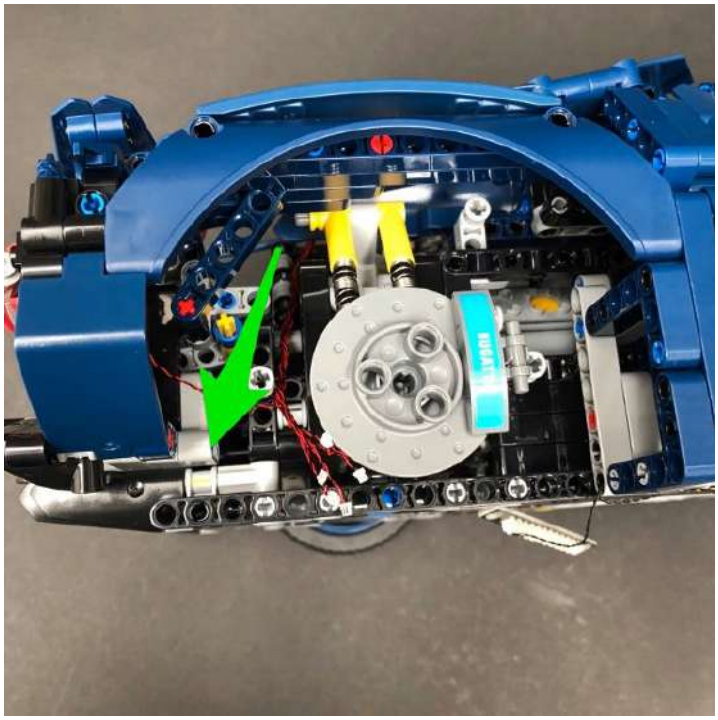


Turn the vehicle around so we are facing the back, then thread the group of cables down the space that leads to where the back wheel was.

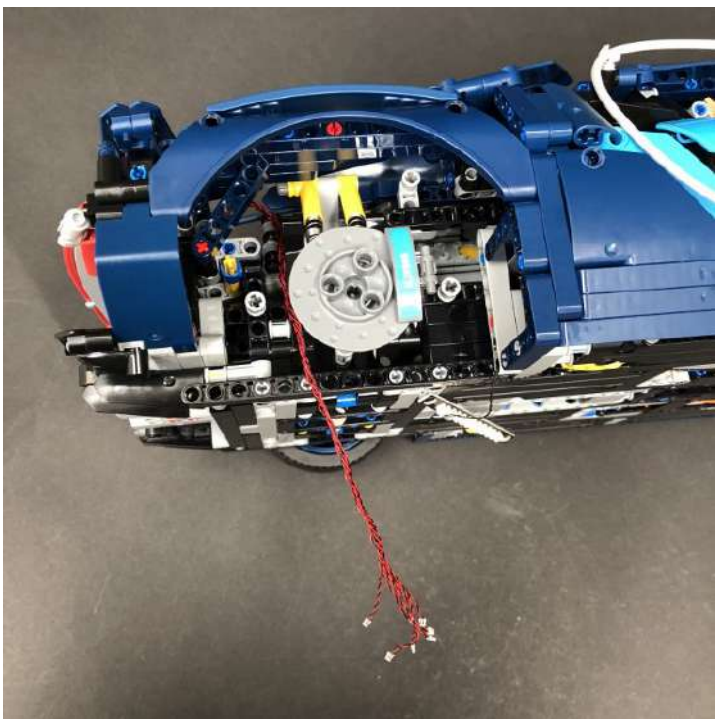


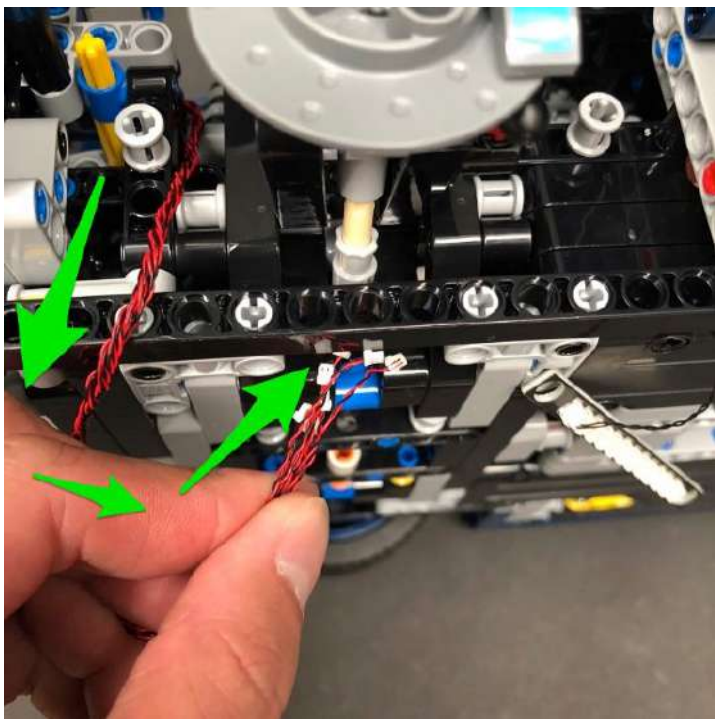


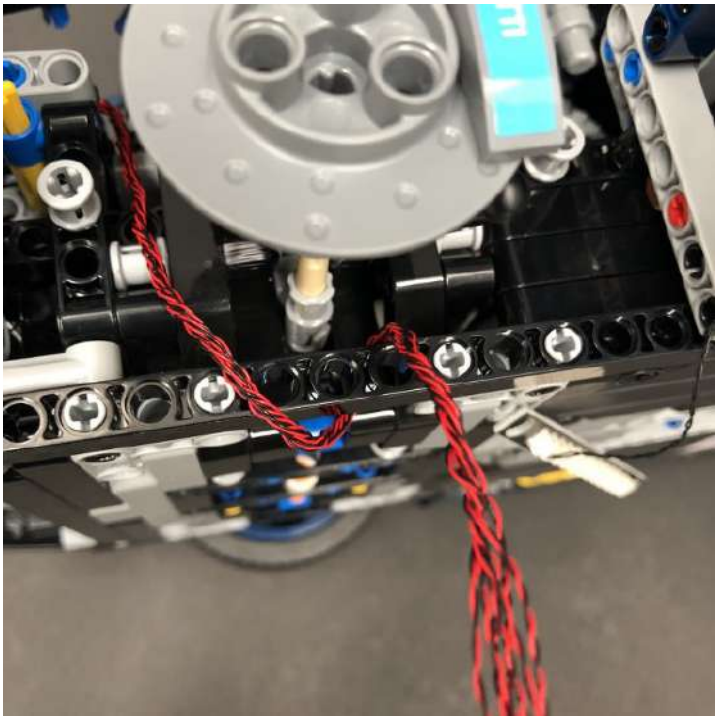


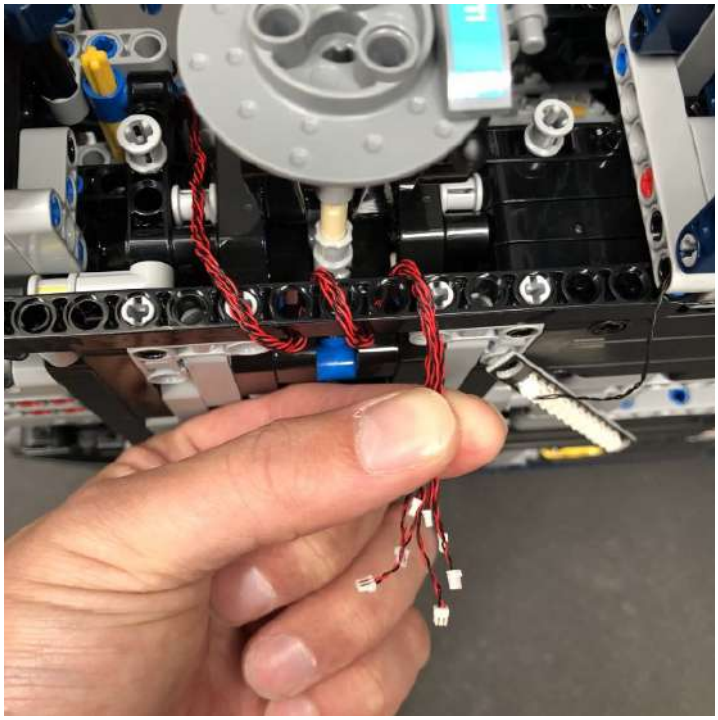


22.) Pull the cable all the way out from underneath and then loop it up around the black technic brick twice to eliminate excess cable.

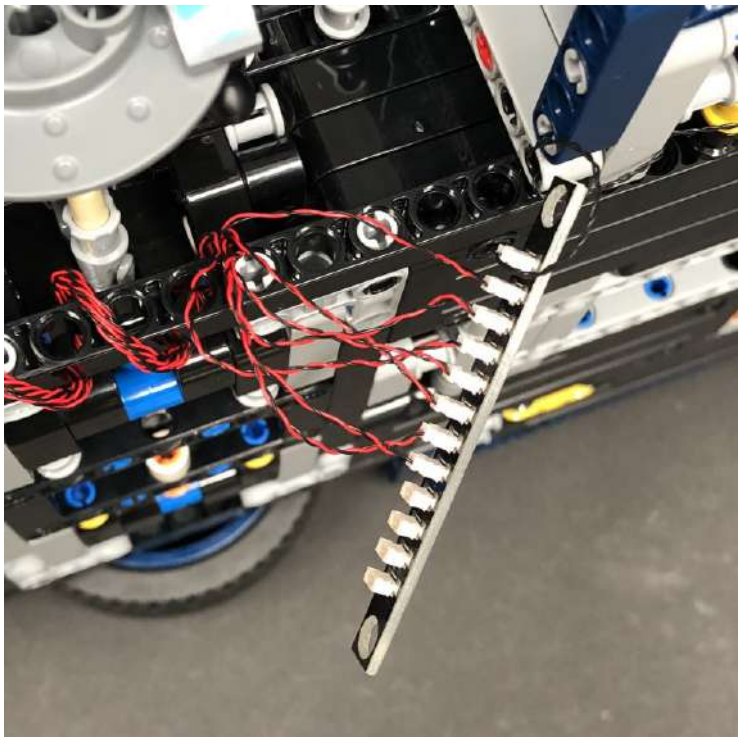




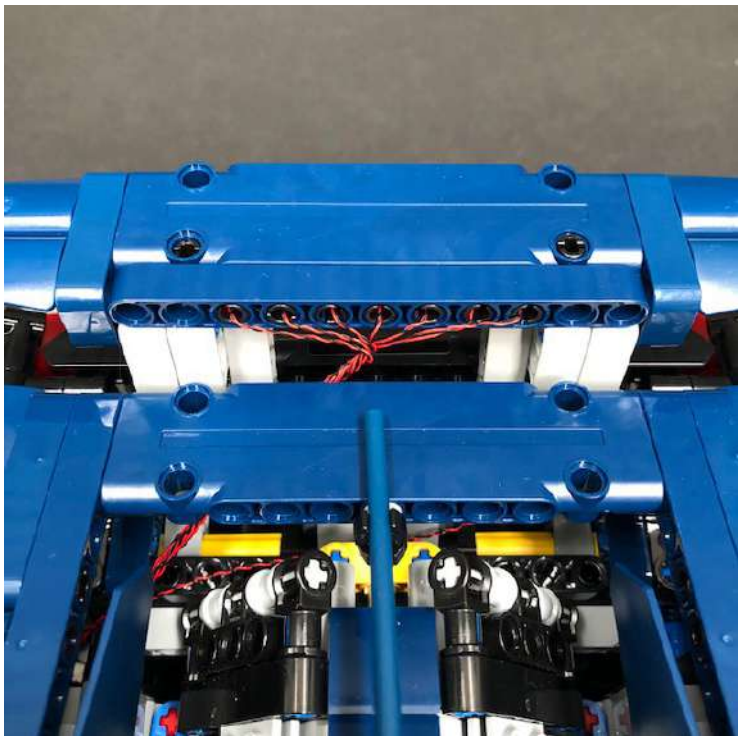


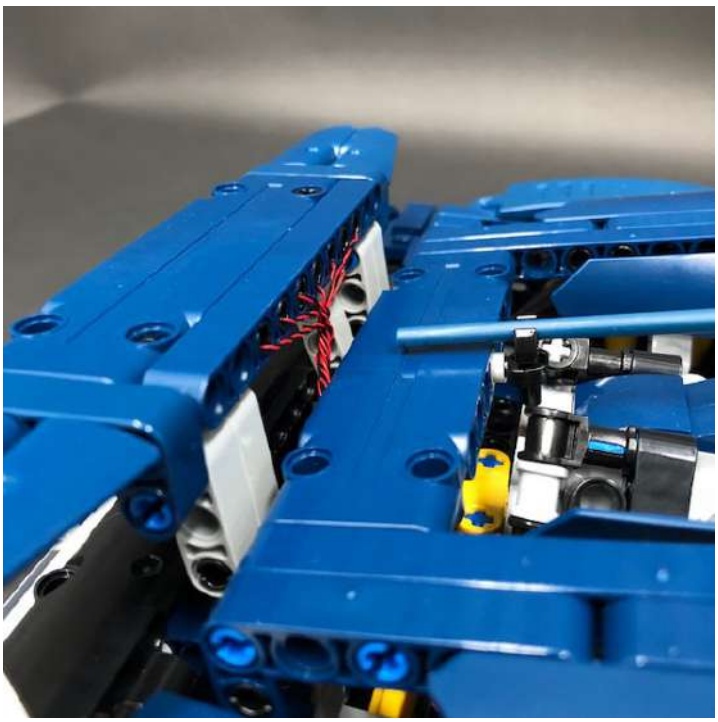


Connect all seven cables to the 12-port Expansion Board nearby.

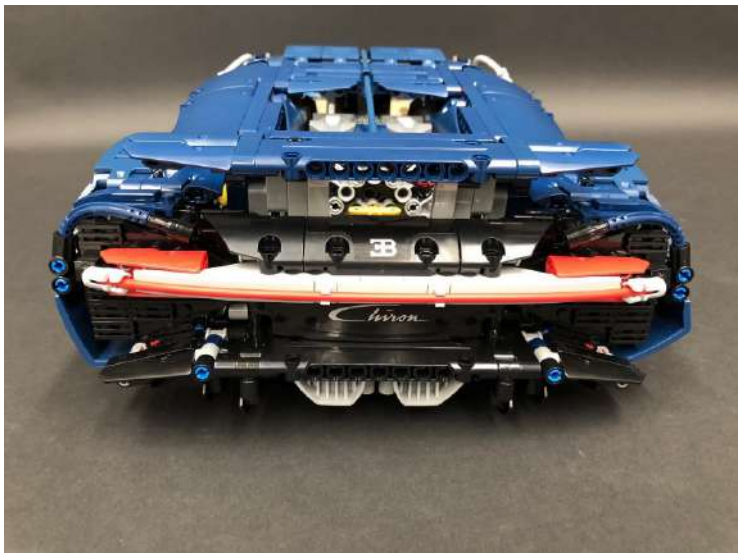


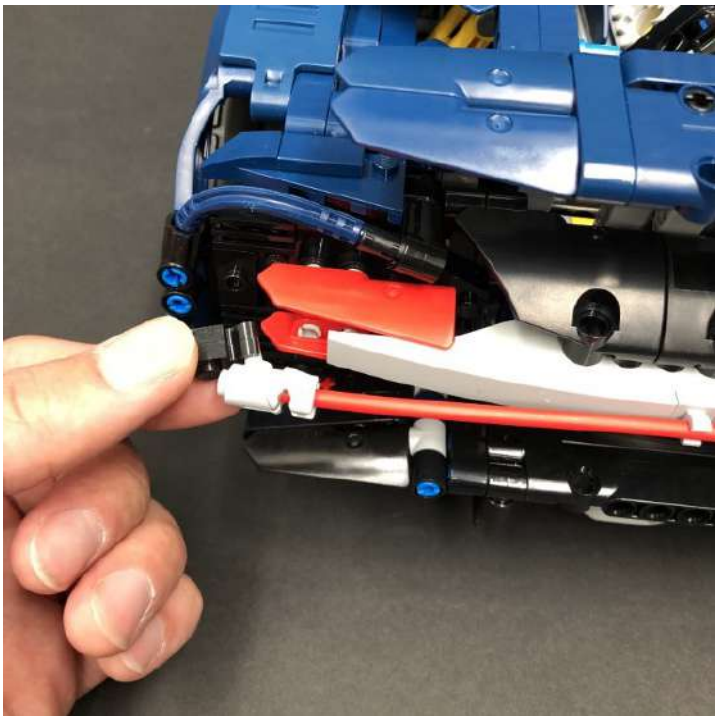
22.) Turn the Bugatti back over and then ensure that the cables from the back of the spoiler are pushed flat so that the spoiler can easily come up and down without the wires getting caught.

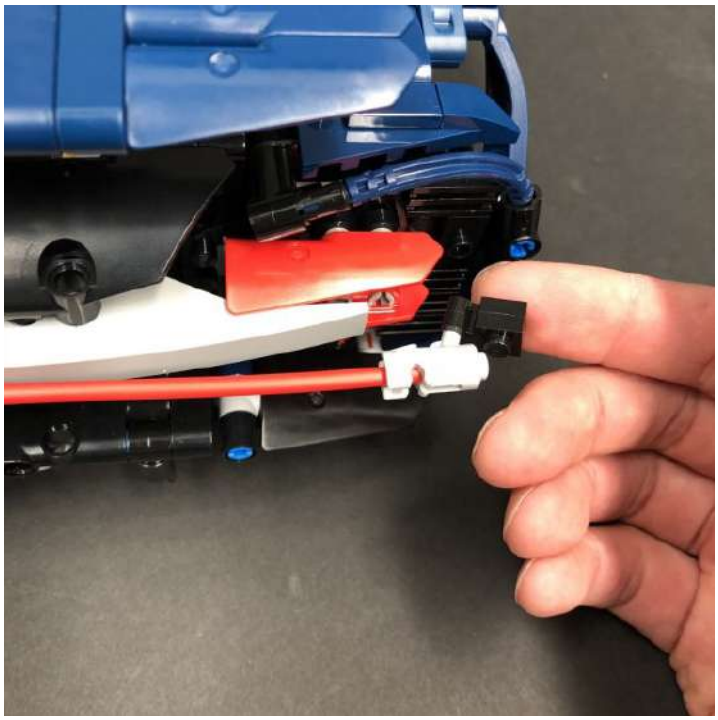


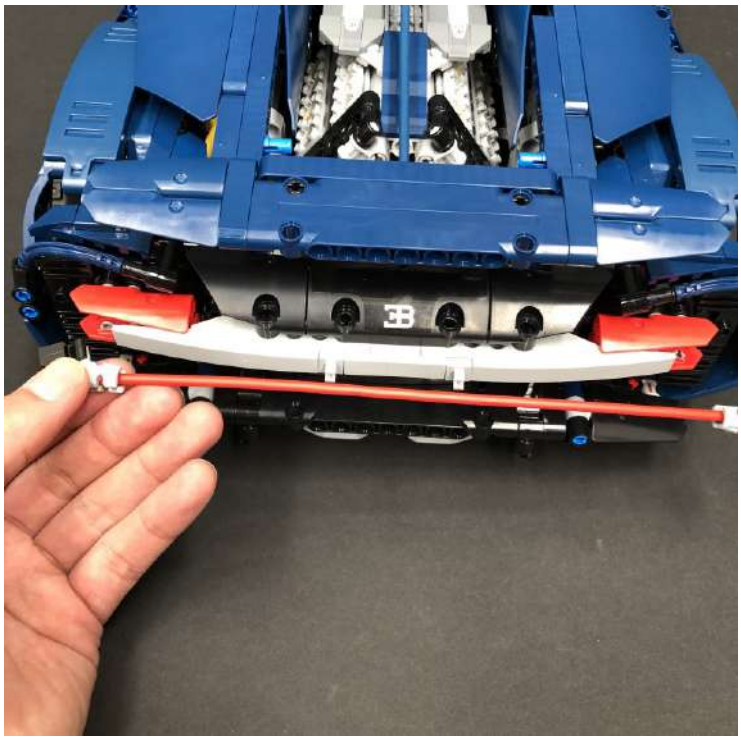


23.) Disconnect the Red Technic Bar from back by disconnecting from each side and then unclipping from the two centre clips.

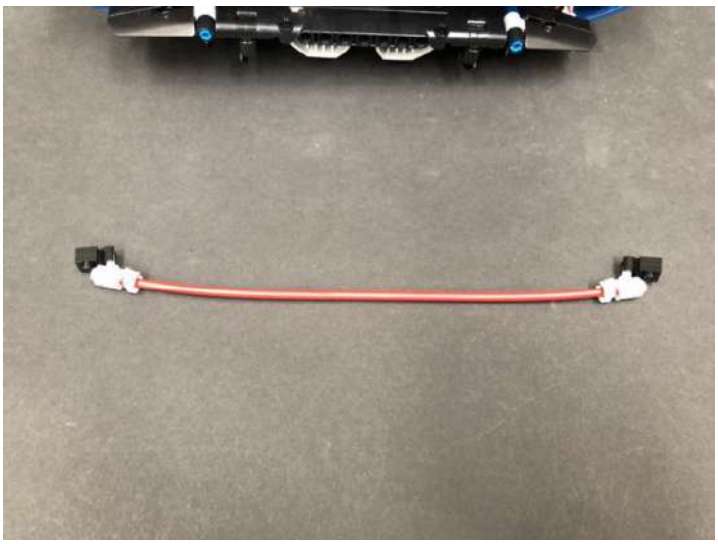

Chiron

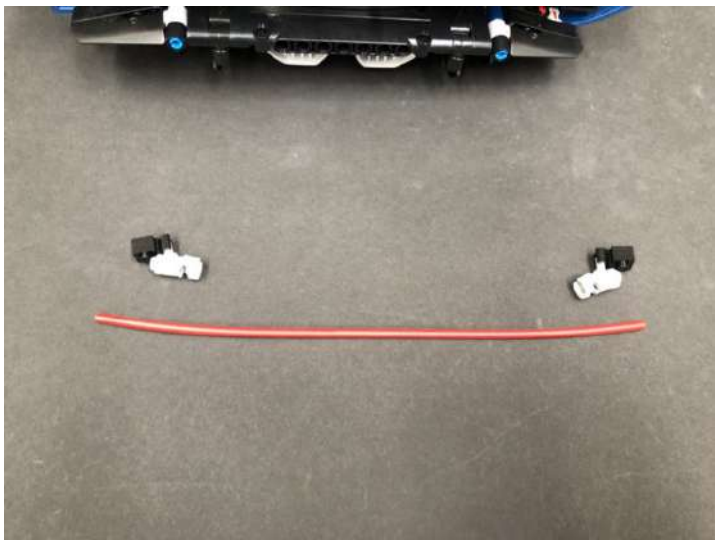


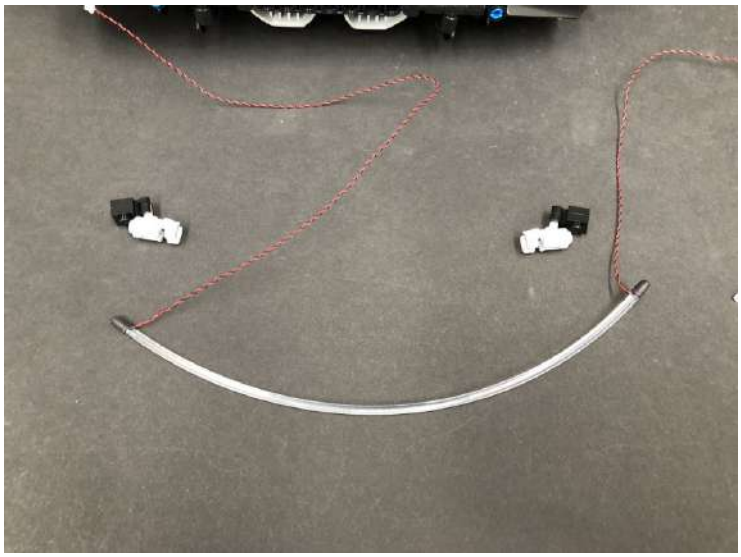


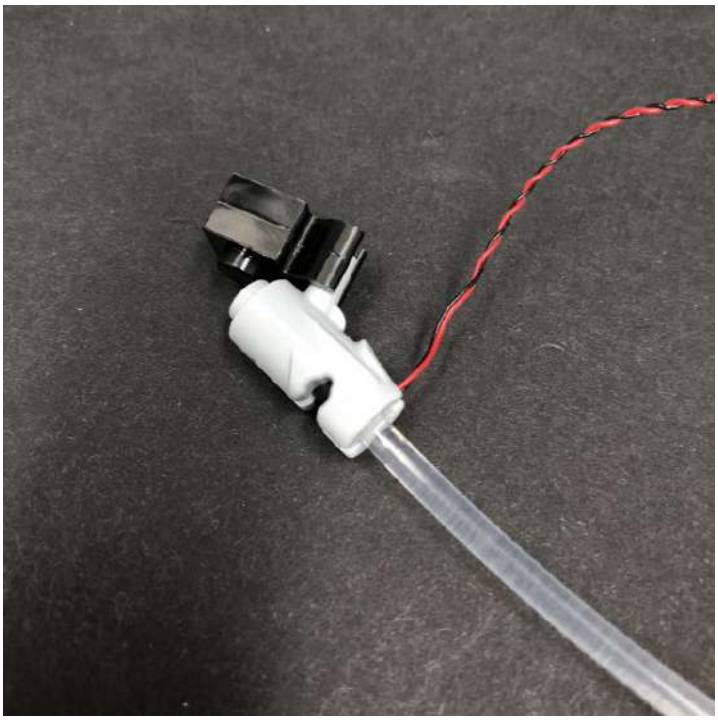


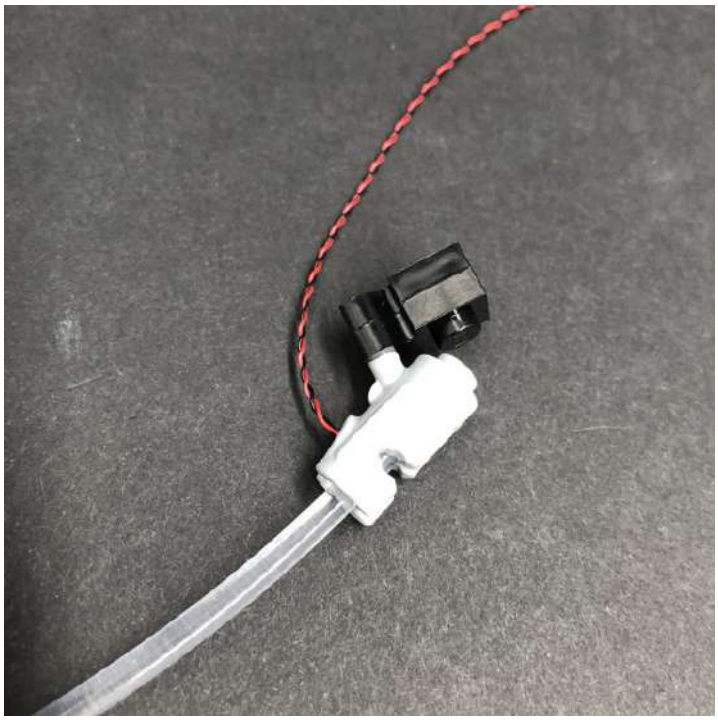
Remove the Red Technic Bar from the two side pieces then replace it with the provided **Red Light Bar 20cm** ensuring the cables are laid in the slots of the light grey pieces.



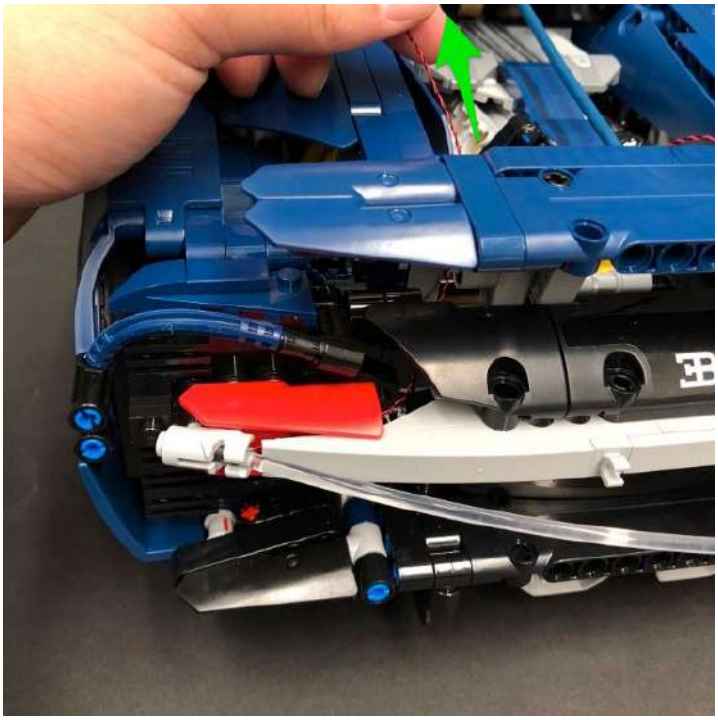


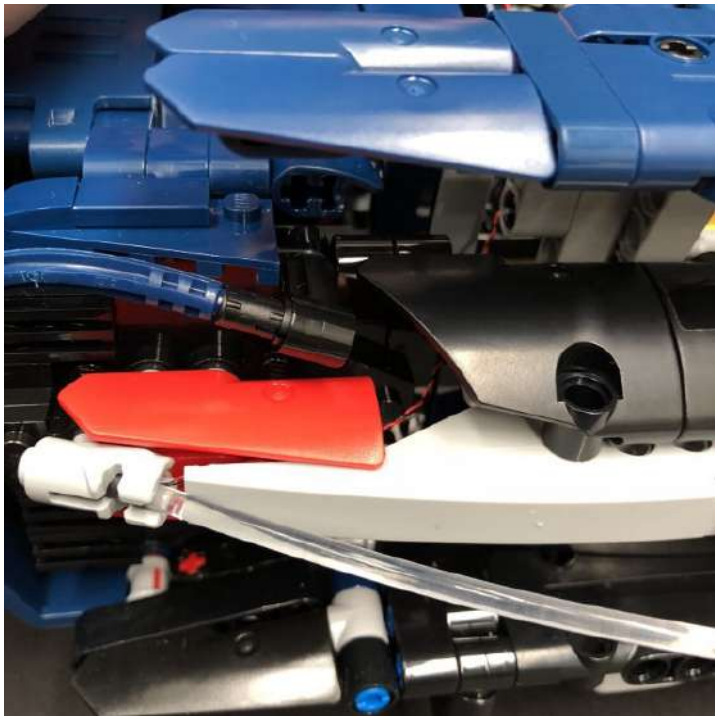




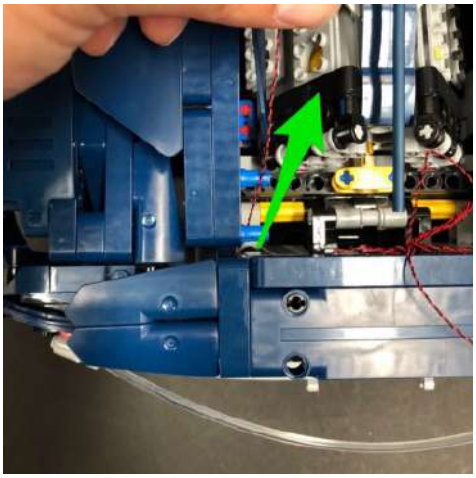
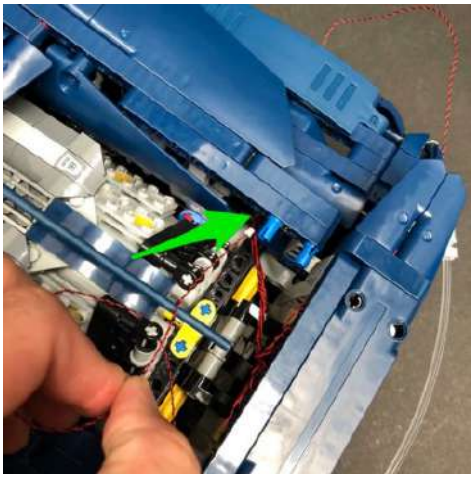
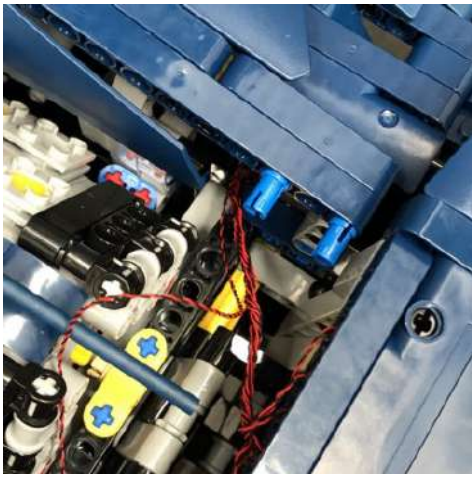


24.) Connect the left side of the red light bar to the back of the Bugatti. Thread the cable behind the light grey piece and then thread it up the space which leads to the other side of the spoiler.

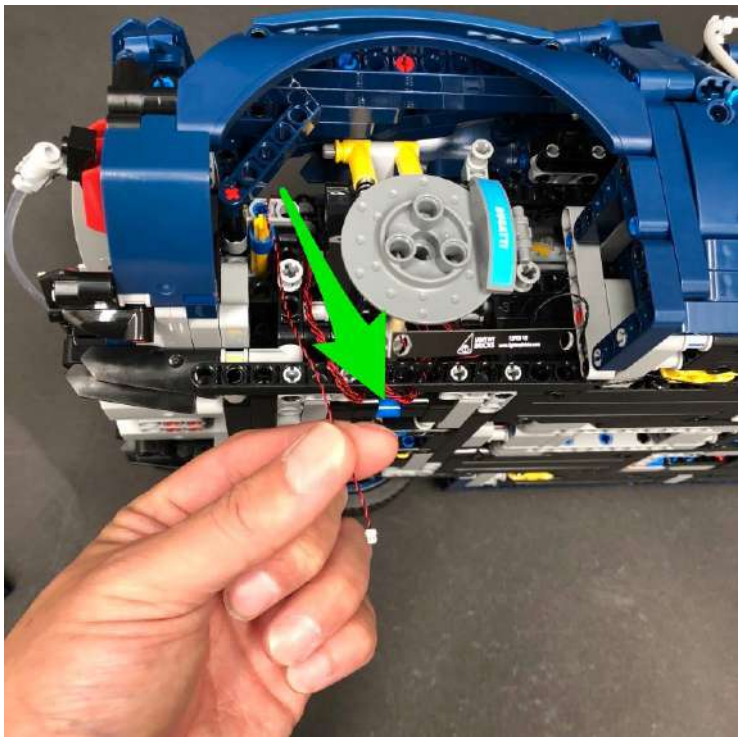




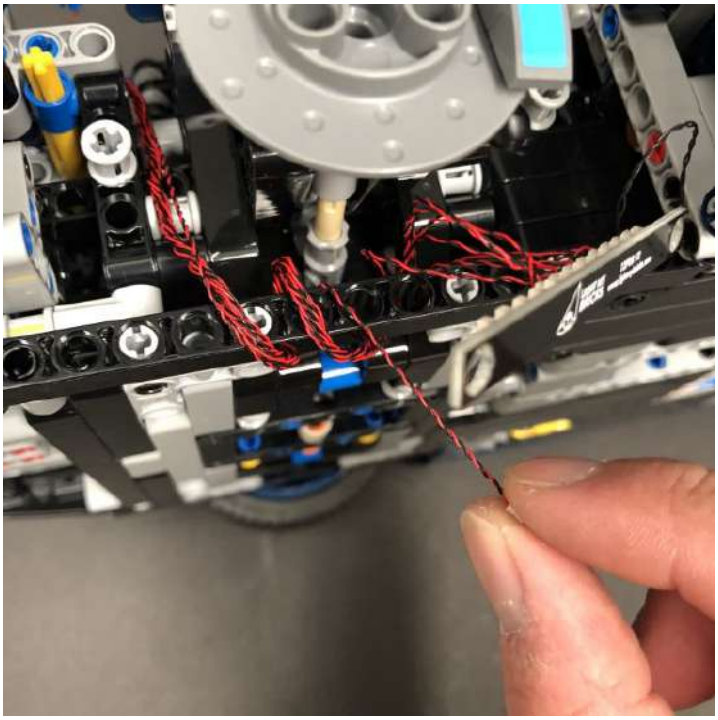
Pull the cable all the way up from the other side of the spoiler and then thread it back down the same space we threaded the larger cable through (that leads to the back wheel)

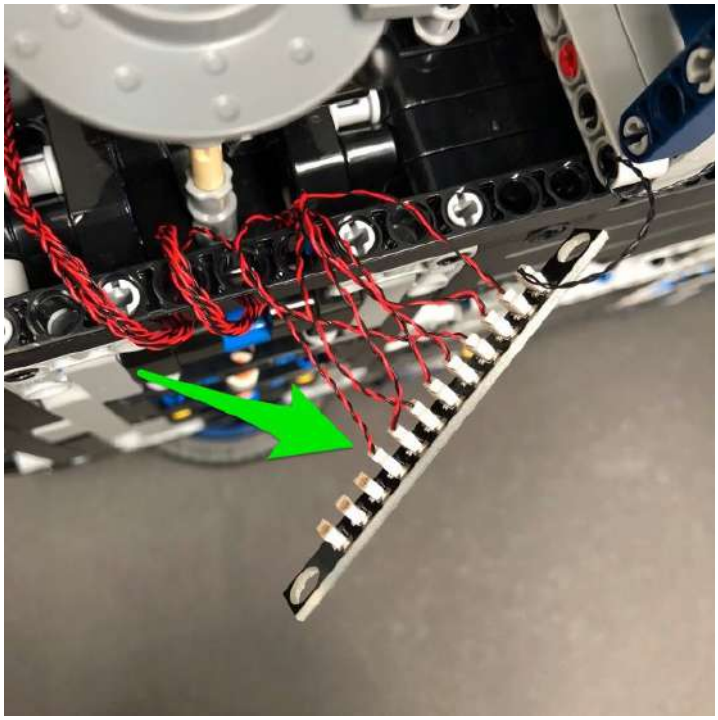




Flip the Bugatti onto it's side and then pull the cable all the way out.

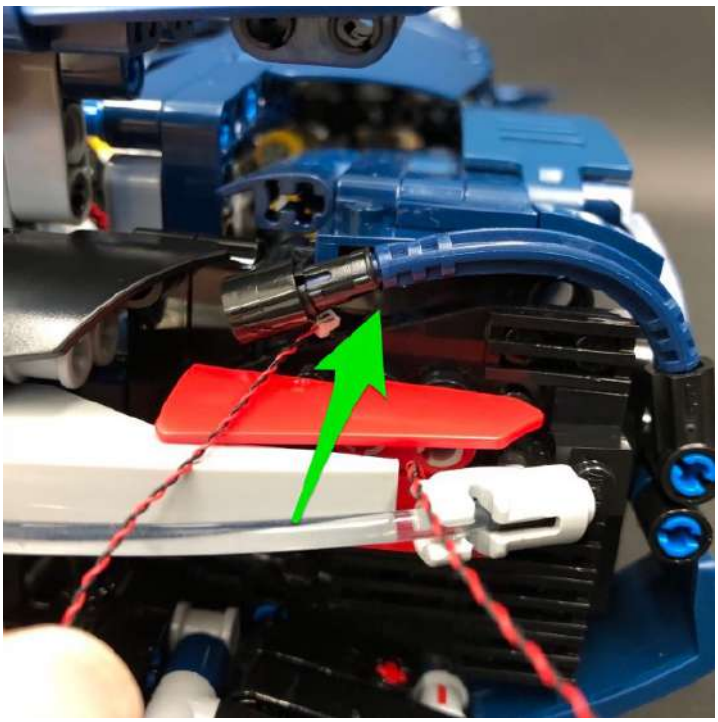


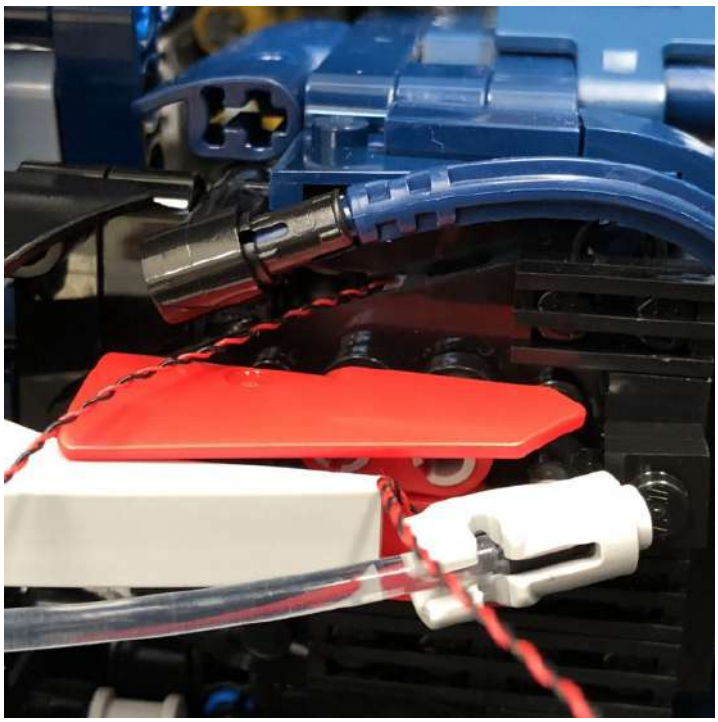
Loop the cable around the black technic brick (same way we did for the larger cable) before connecting it to the next available port on the 12-port Expansion Board.

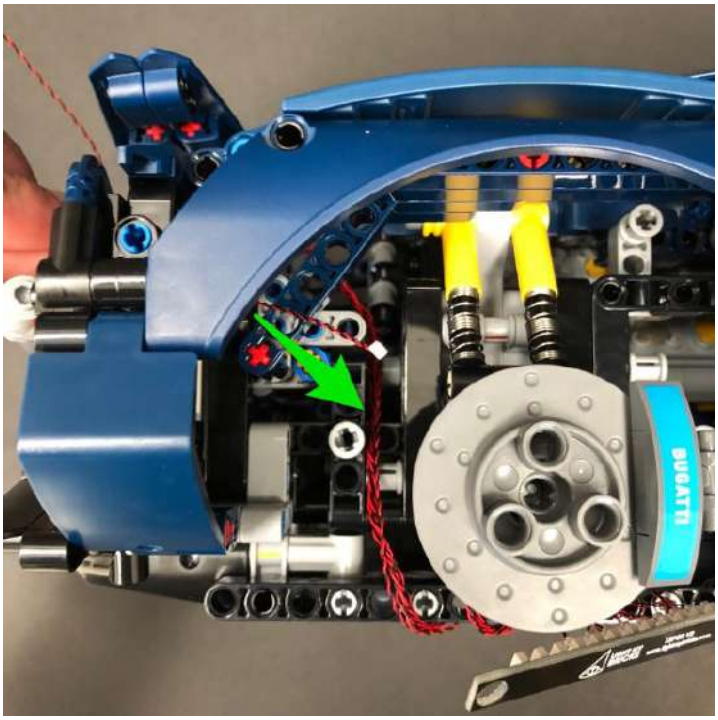


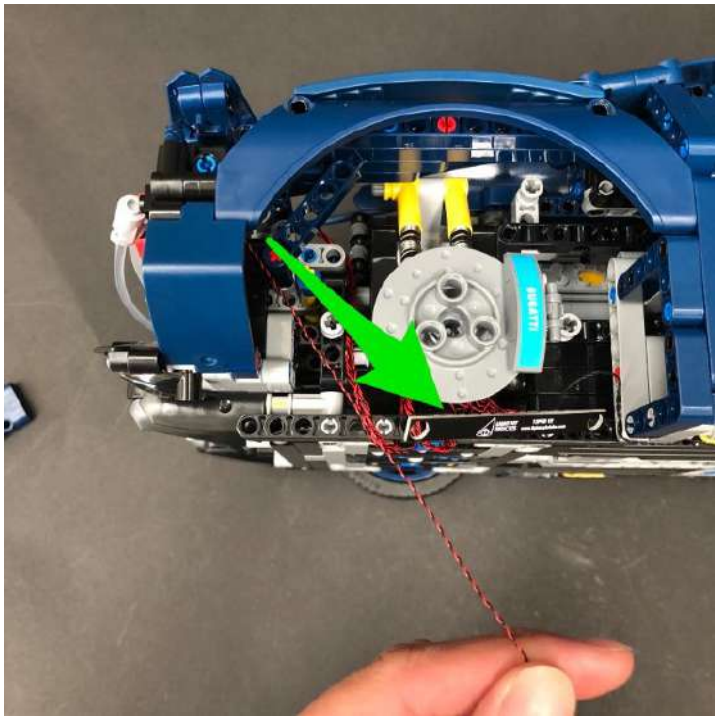


25.) Flip the Bugatti back over and then reconnect the right side of the red light bar. Thread the cable up the space above that leads to the back wheel then turn the Bugatti onto it's side to pull the cable out

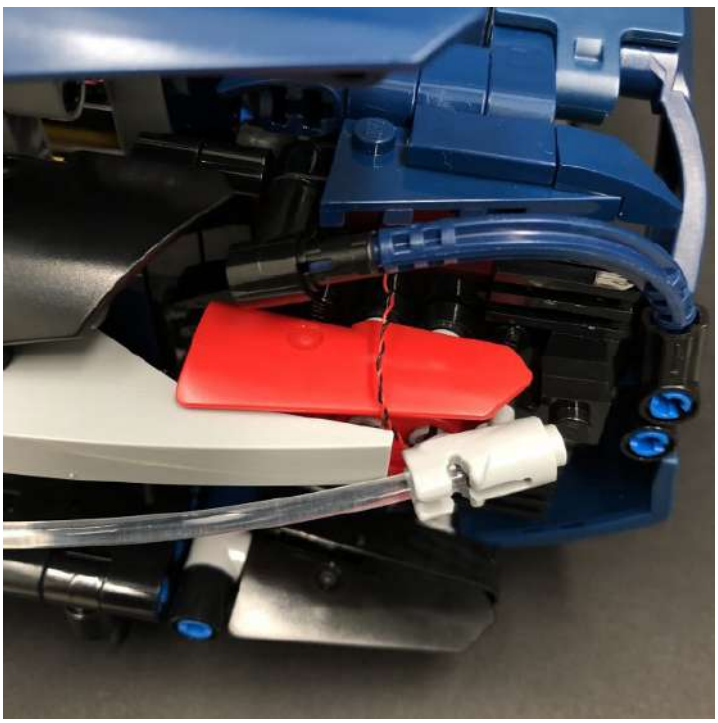


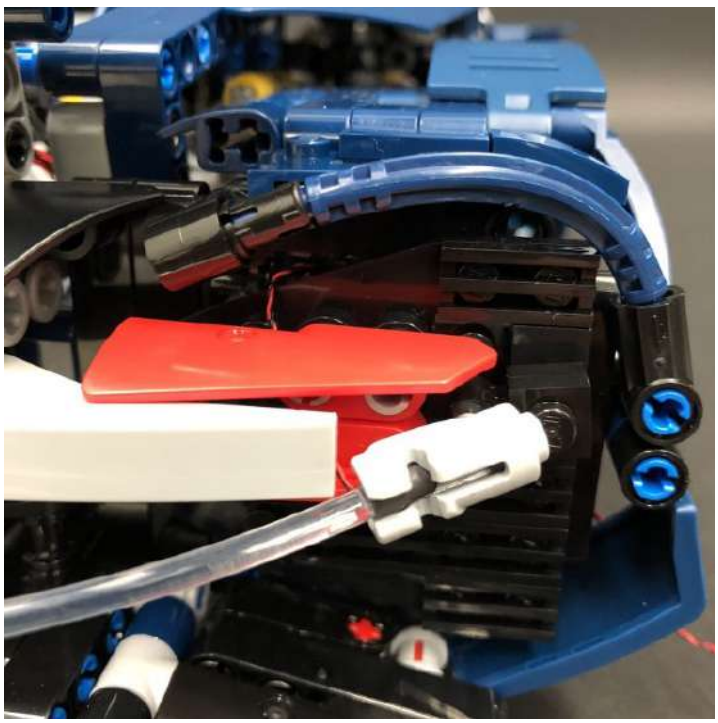






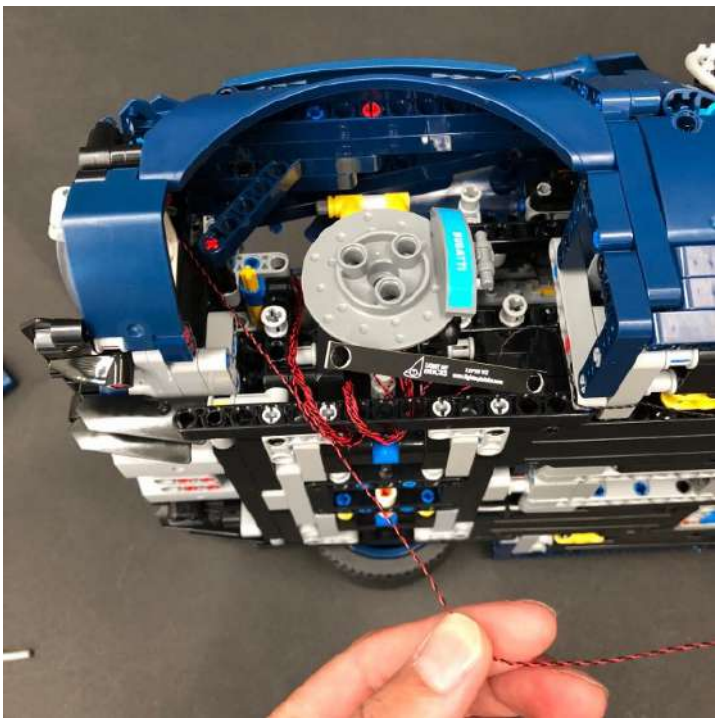
Flip the Bugatti back over and hide the cable behind the light grey piece as per below.

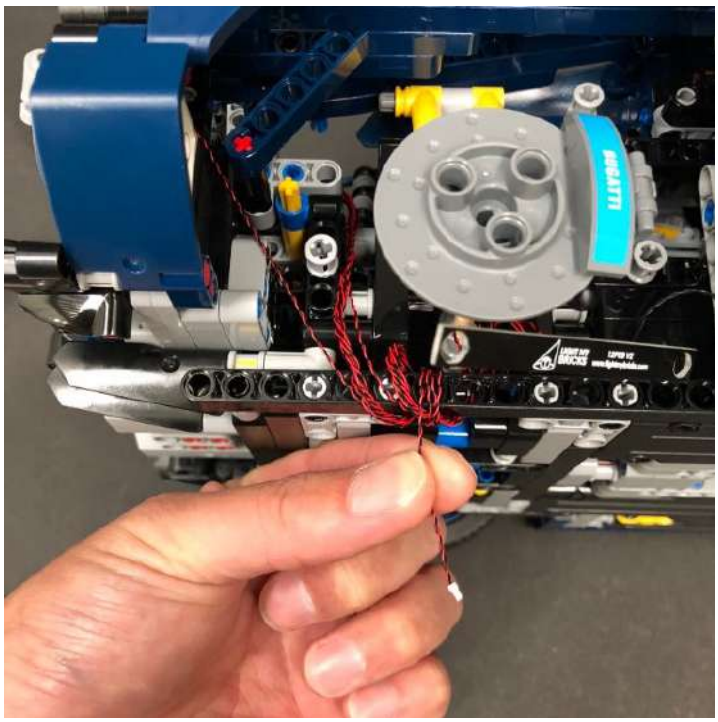




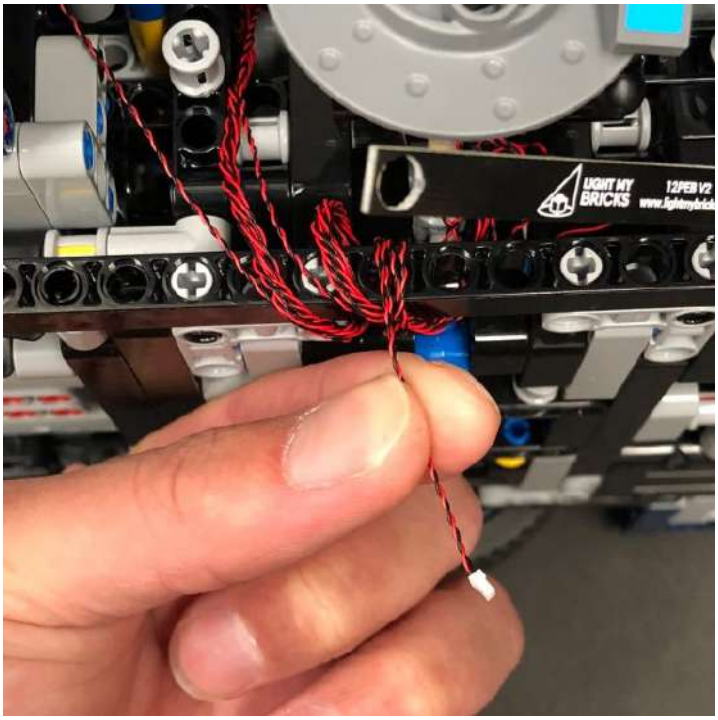
Clip red light bar into the two centre clips.

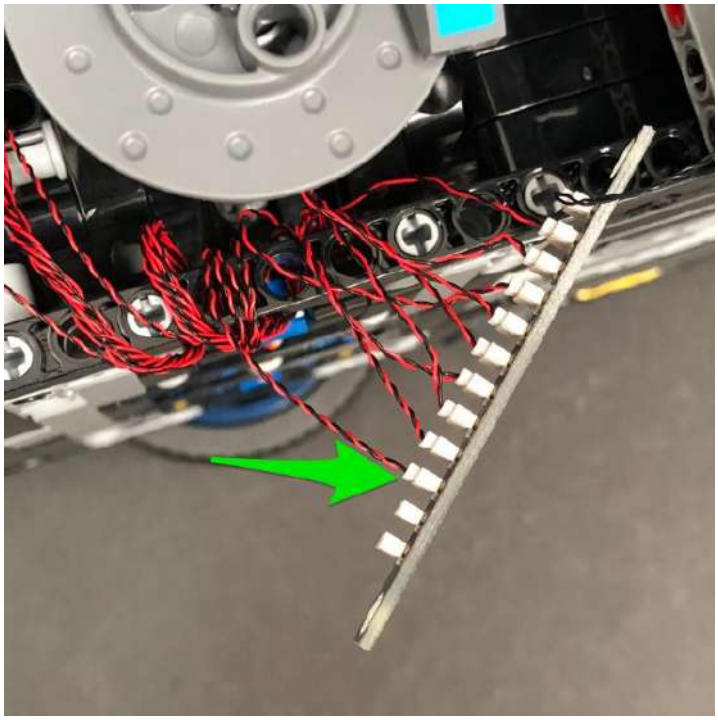
26.) Turn the Bugatti back onto it's side then pull the cable down and then loop it around the black technic brick twice to eliminate excess cable.



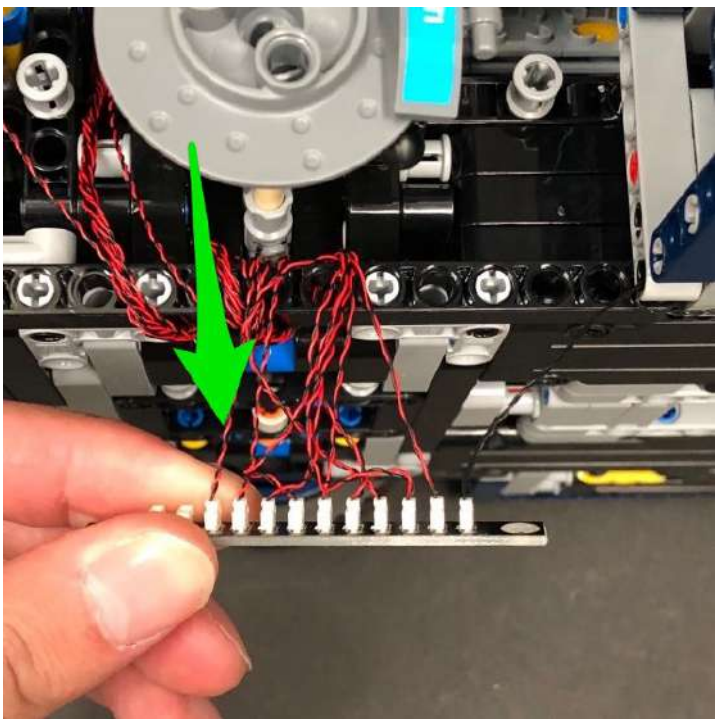


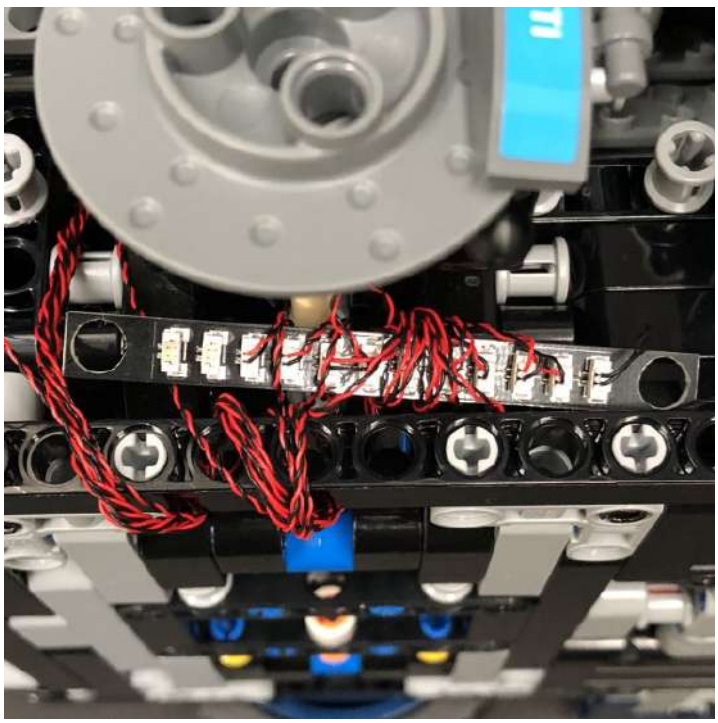
Connect the cable to the next available port on the expansion board.

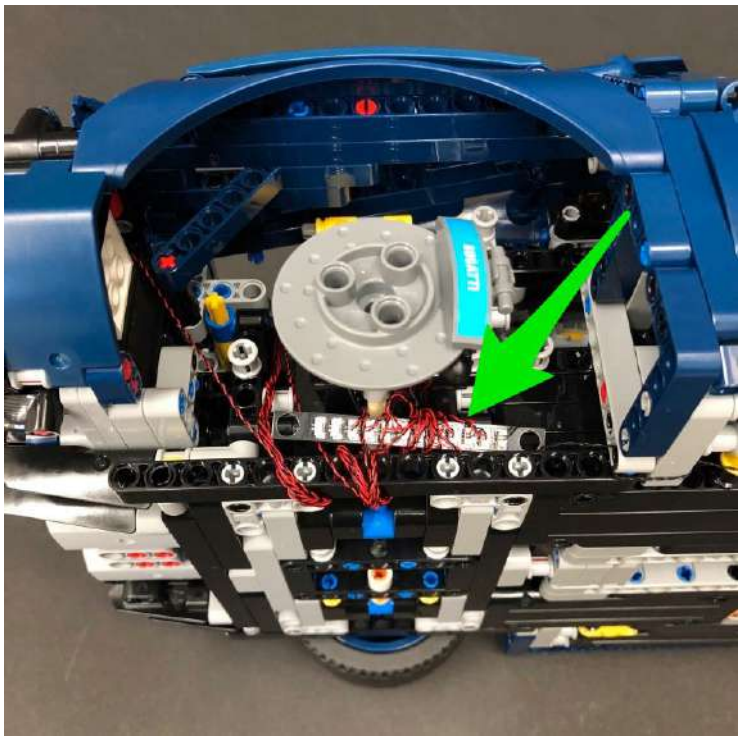




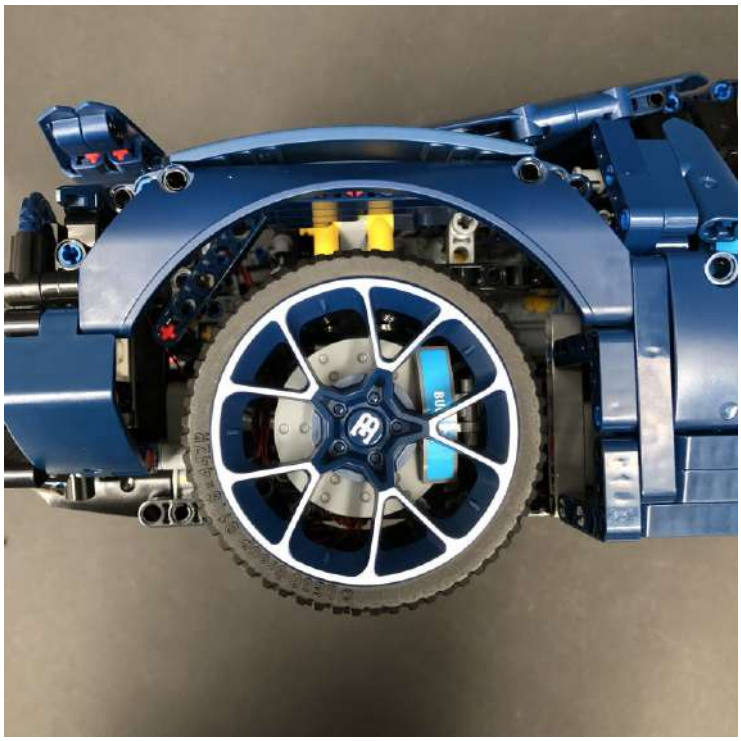
27.) Pull the expansion board down over the black technic brick to tighten all the cables then roll the expansion board up so the remaining excess cables wind around it. Tuck the expansion board into the space right under the disc brakes as per below.



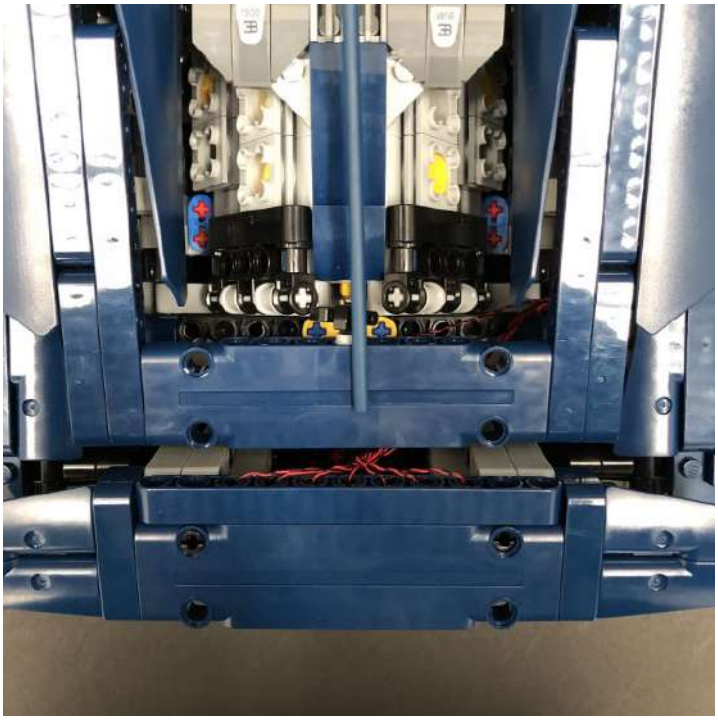




Reconnect the back wheel.



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.

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This finally completes installation of the Bugatti Chiron 42083 Light Kit.

We hope you enjoy your product!

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