Light My Bricks
Installation Instructions for Light My Bricks LED Lighting Kits
Aug 10 · 13 min read

Light My Bricks: LEGO TRON Legacy 21314 Lighting Kit

The following page is the instructions for the **Light My Bricks LEGO TRON Legacy (21314) 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 TRON Legacy (21314) LED light kit , please click here to view the product page*

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Package Contents:

- 7x **Blue 30cm Bit Lights**
- 7x **Orange 30cm Bit Lights**
- 1x **6-Port Expansion Board**
- 1x **12-Port Expansion Board**
- 1x **5cm Connecting Cable**
- 1x **AA Battery Pack**

LEGO Pieces:

- 2x **Black Plate 1x6**
- 4x **Technic Pin 1/2 Light Bluish Grey**

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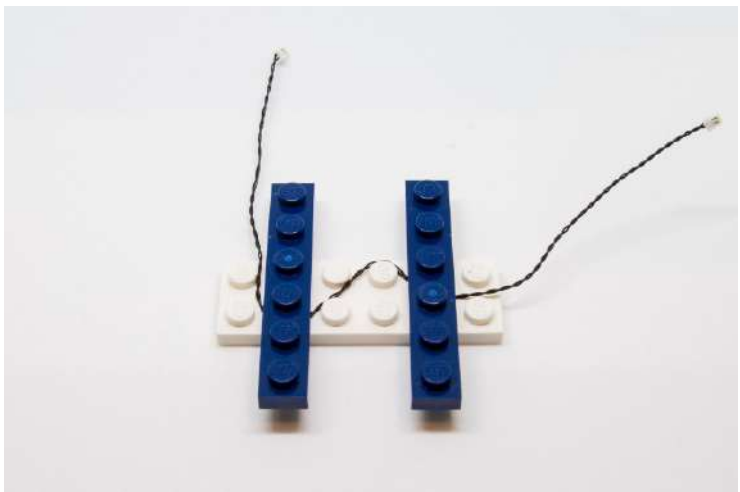
Important things to note:

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.

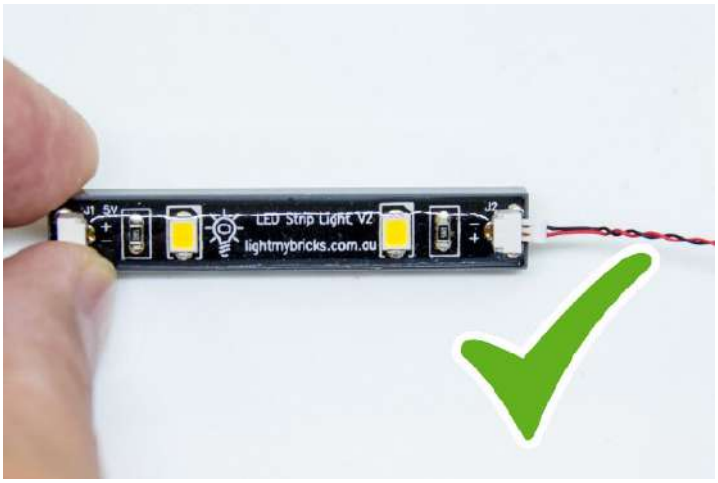
Connecting cable connectors to Expansion Boards

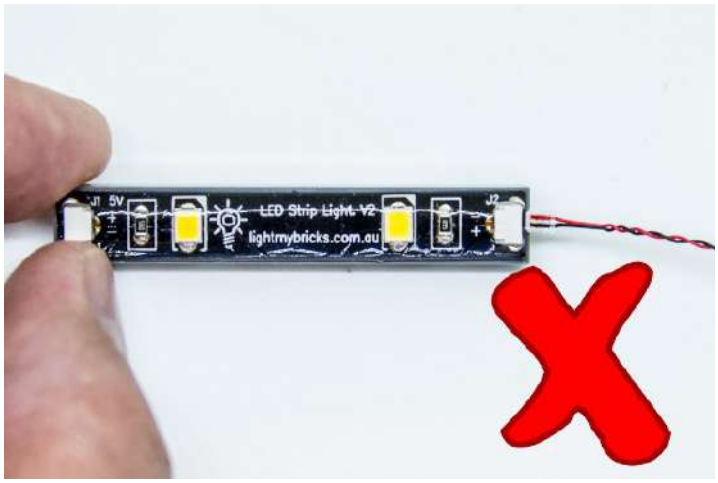
Take extra care when inserting connectors to ports of Expansion Boards. Connectors can be inserted only one way. With the expansion board facing up, look for the soldered “=” symbol on the left side of the port. The connector side with the wires exposed should be facing toward the soldered “=” symbol 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.

Connecting cable connectors to Strip Lights

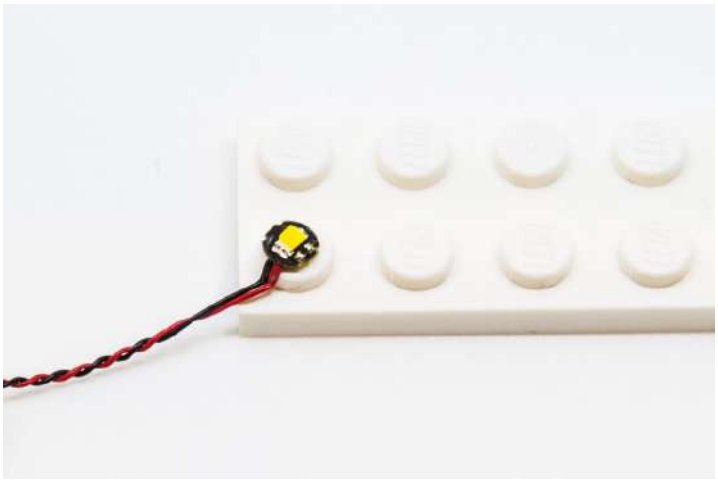
Take extra care when inserting connectors to ports on the Strip Lights. Connectors can be inserted only one way. With the Strip Light facing up, ensure the side of the connector with the wires exposed is facing down. If a plug won’t fit easily into a port connector, don’t force it. Doing so will damage the plug and the connector.

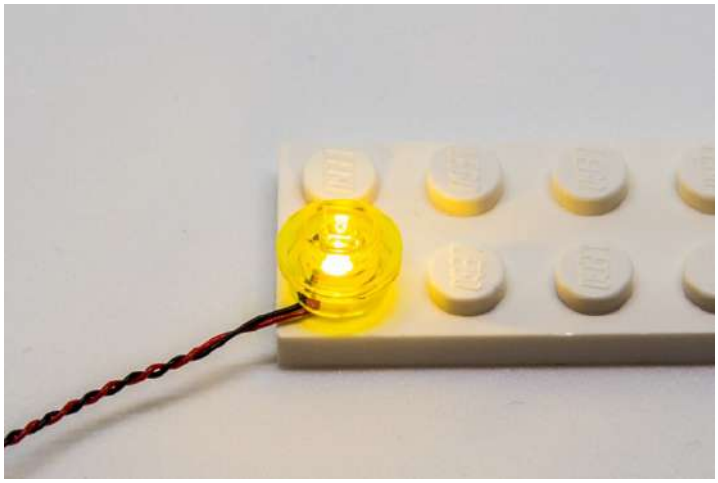


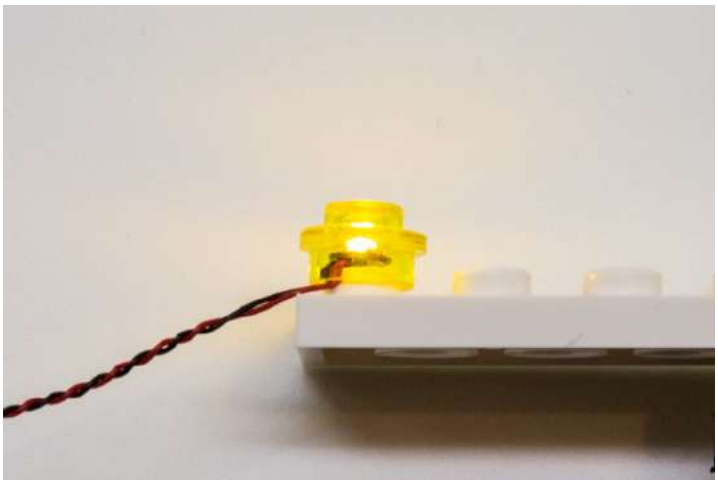


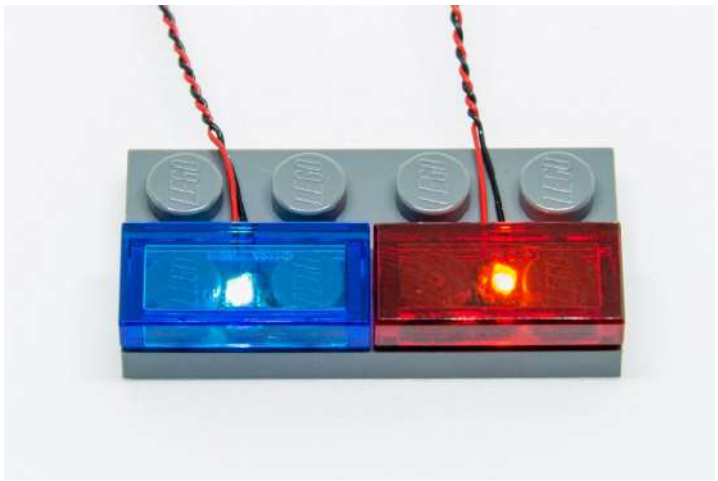
Installing Bit Lights under LEGO® bricks and plates.

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!

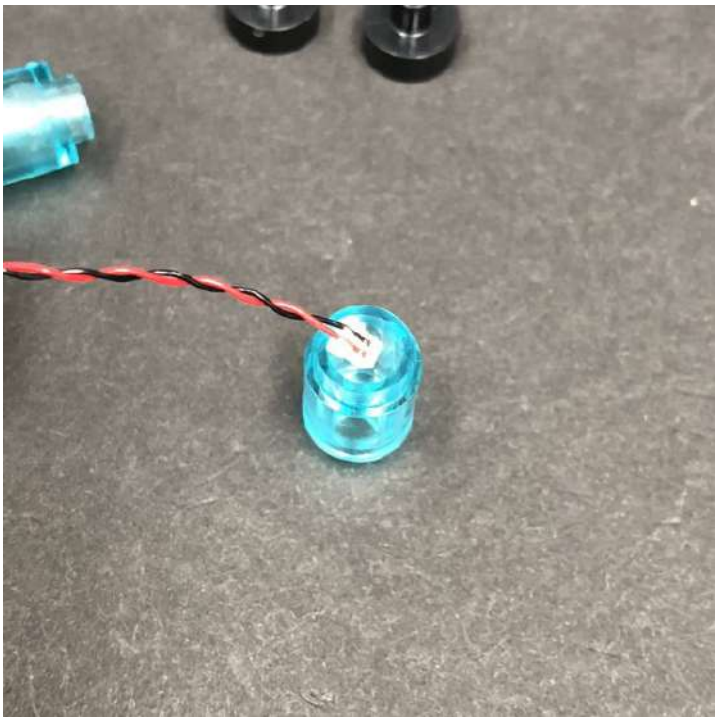
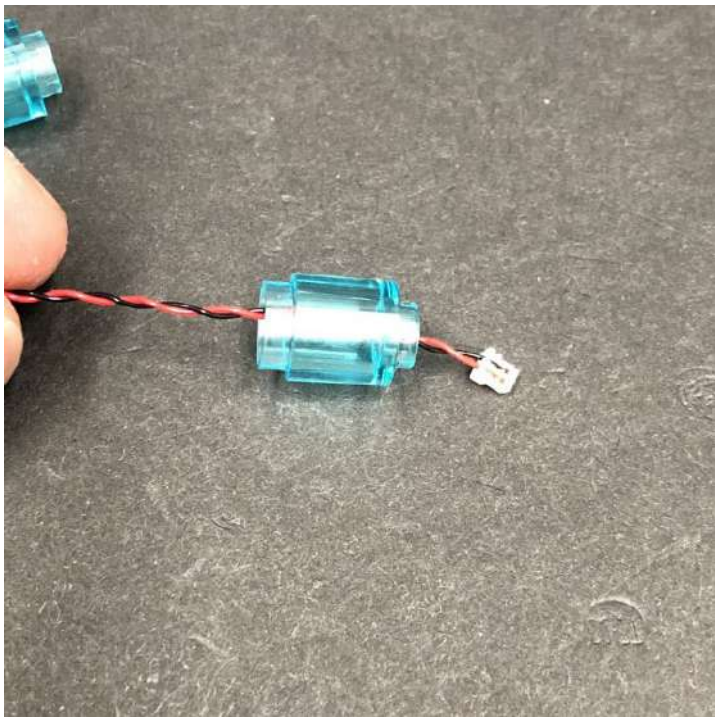
1.) We will light the blue vehicle first. Start by disconnecting it from the base plate and then remove the centre 1x8 plate from underneath as well as the light sections from each side.



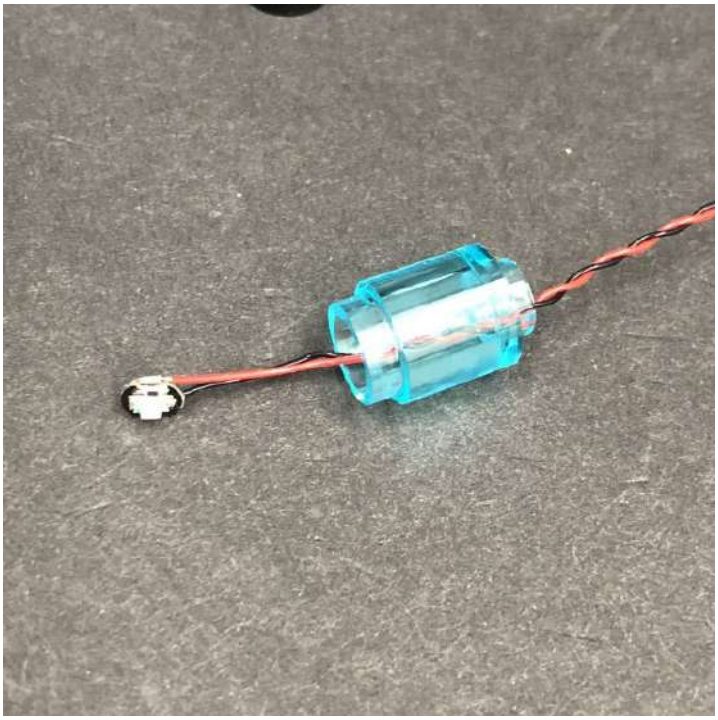


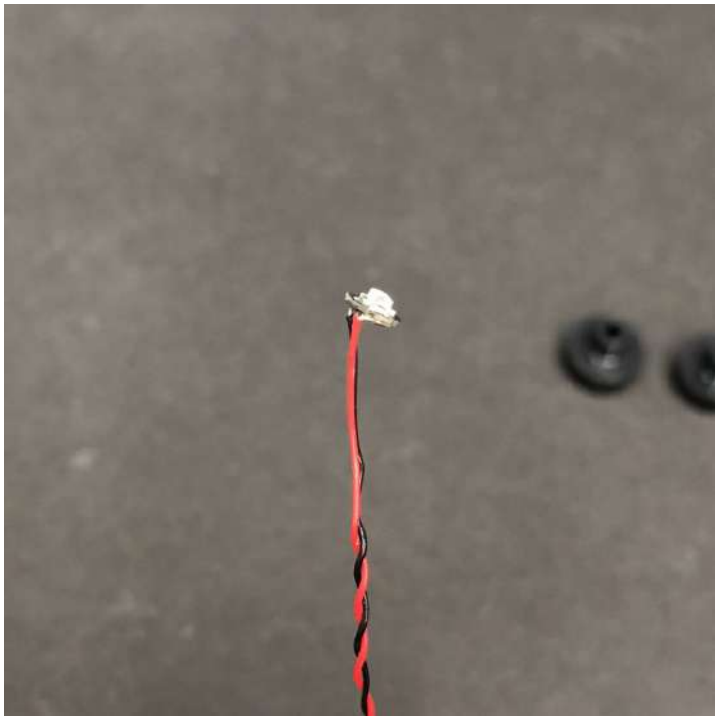
2.) Disassemble the two light sections and the take a **Blue 30cm Bit Light** and thread the connector side of the cable through the base (larger hole) of one of the trans light blue round bricks.

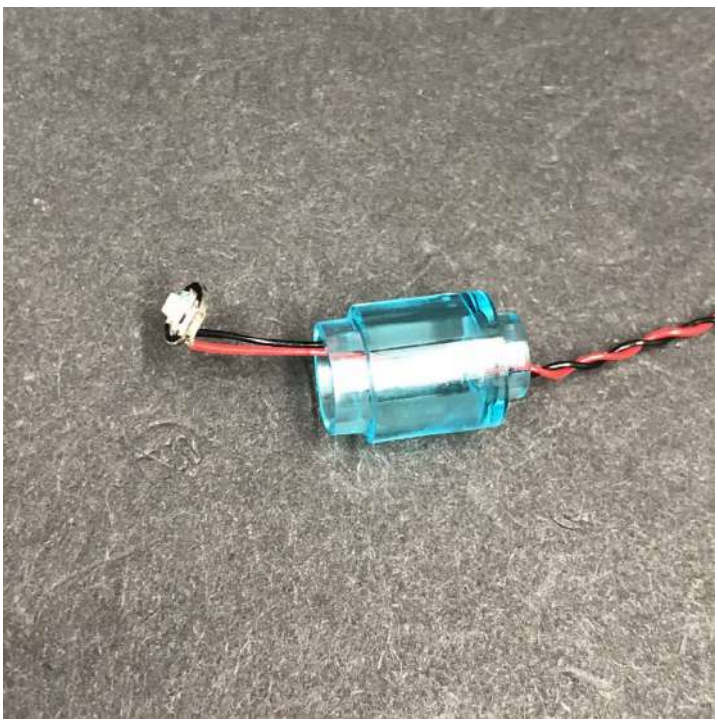


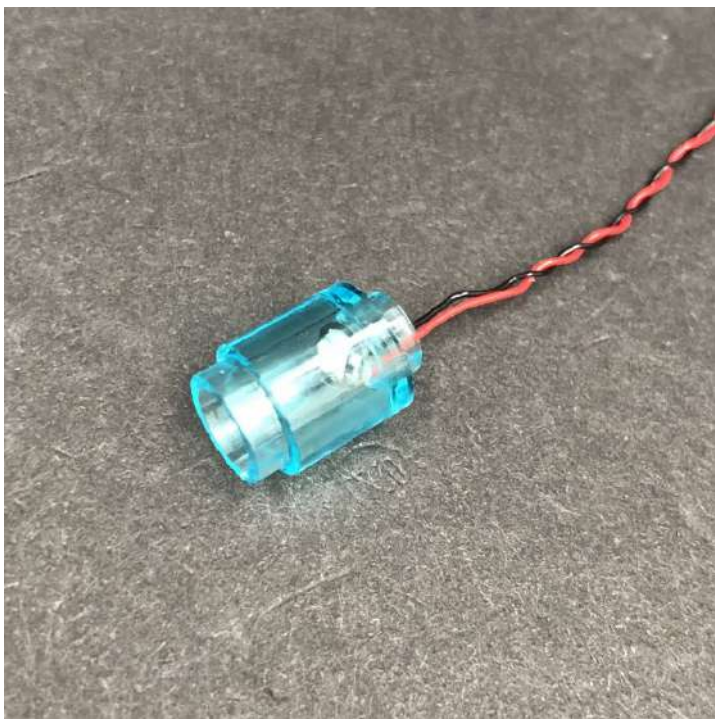



Thread the cable all the way through and slightly bend the Bit Light on a 90 degree angle so that it is facing upward, before pulling the cable all the way out from the other side of the brick.

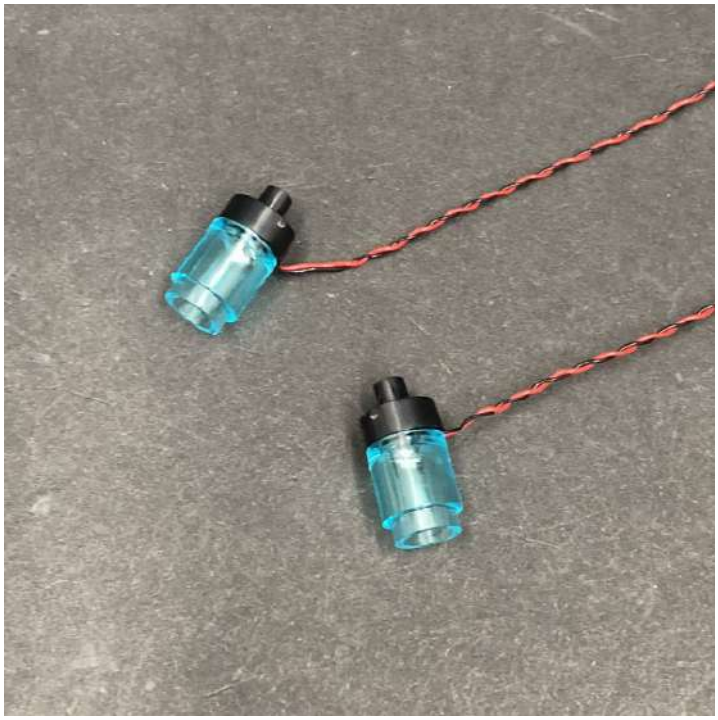




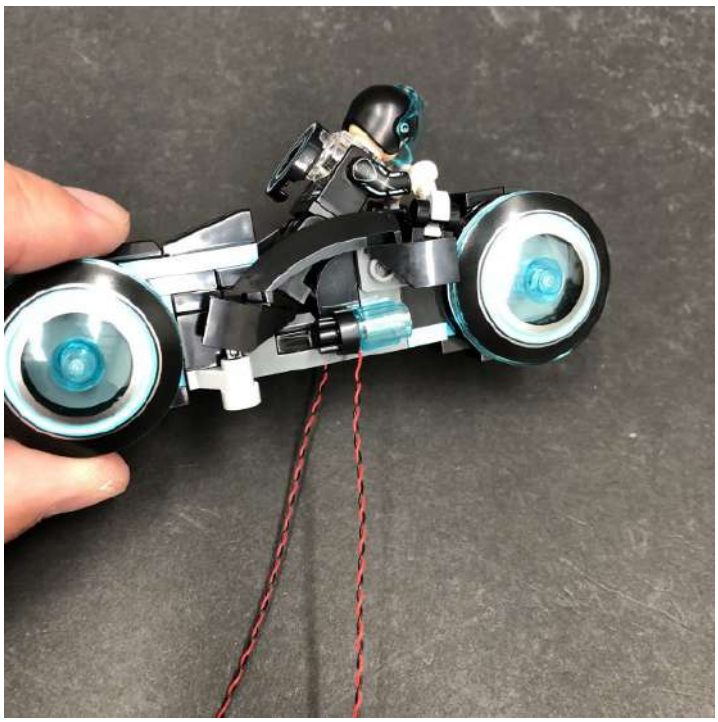


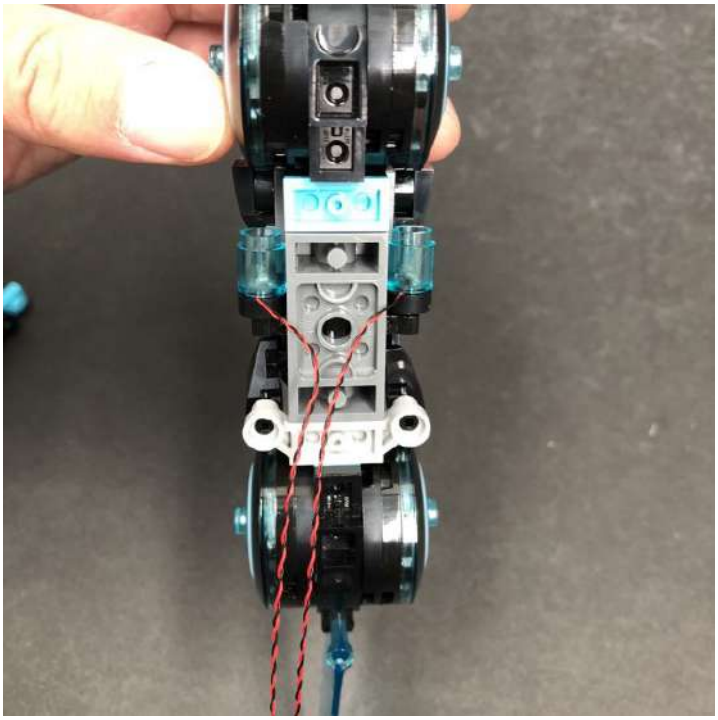


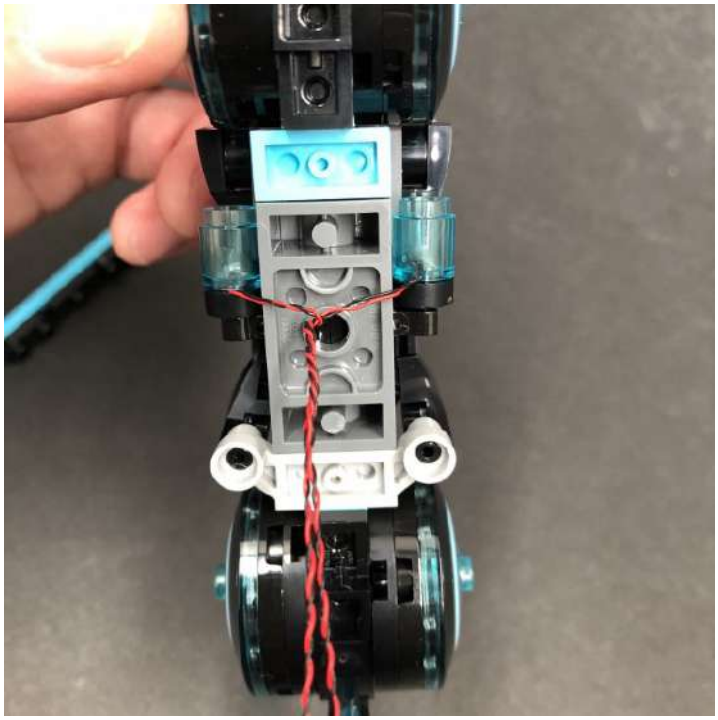
With the bit light sitting all the way inside the trans light blue brick, reconnect the black piece to secure the Bit Light in place. Follow the same method to install another **Blue 30cm Bit Light** to the other light section.



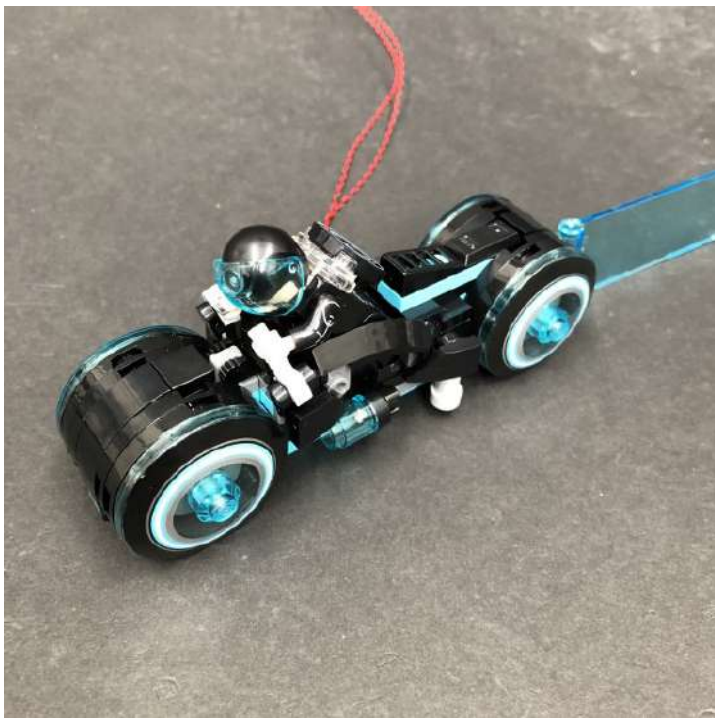
3.) Reconnect the light sections to each side of the vehicle and then from underneath, grab both cables and twist them around each other a few times as shown below:



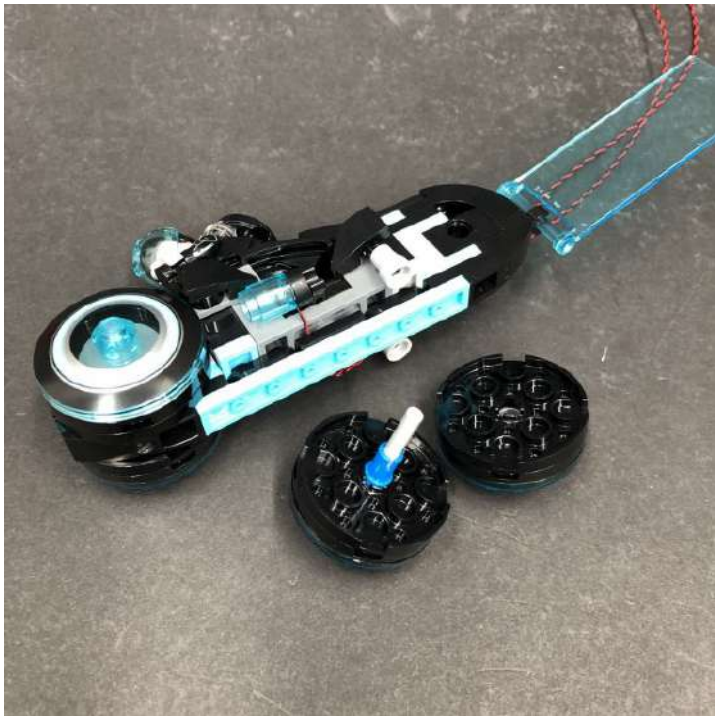




Reconnect the bottom plate we removed earlier ensuring the cables are facing toward the right side of the vehicle and cables underneath are in laid in between studs.



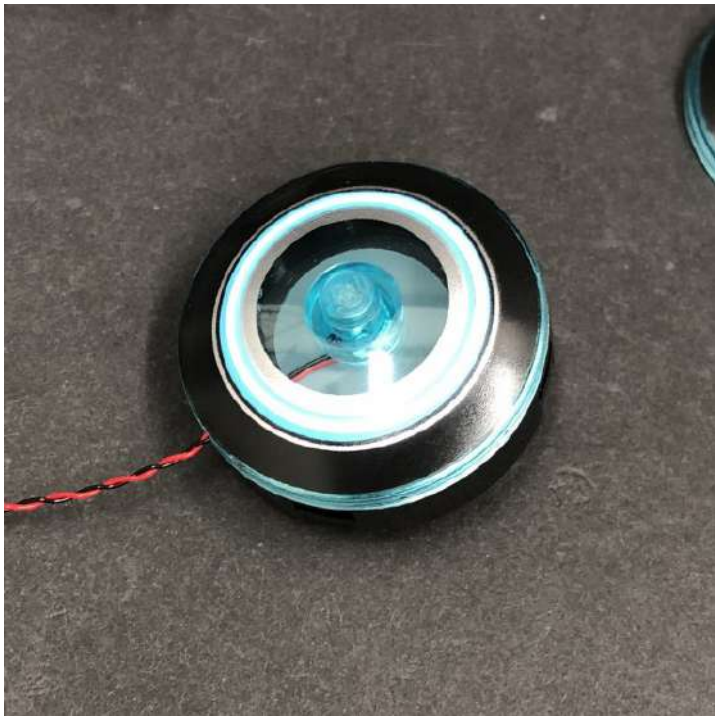
4.) Remove the two back wheels and then disassemble pieces as shown below:

Discard the longer light grey bar and take a provided **Technic Pin 1/2 Light Bluish Grey** and connect this along with the blue technic pin to inside of the wheels (longer side through first).

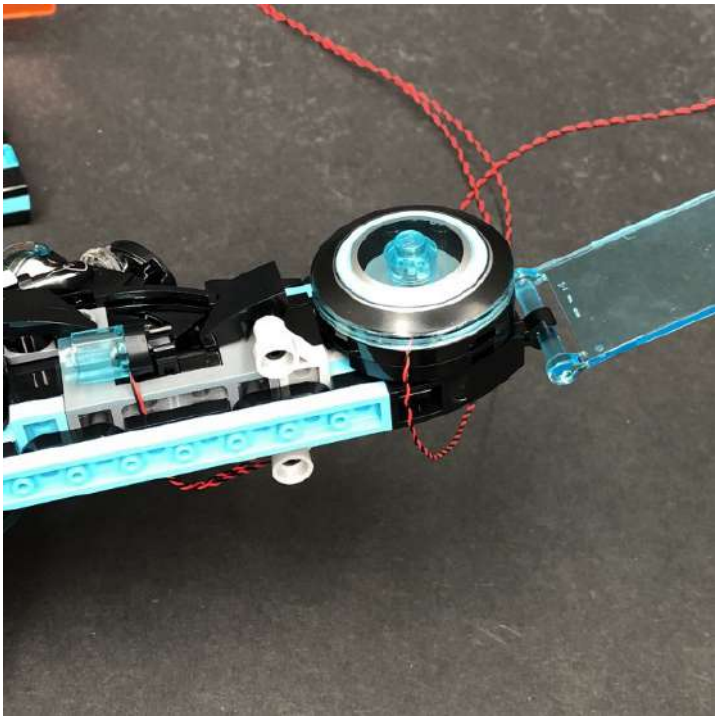
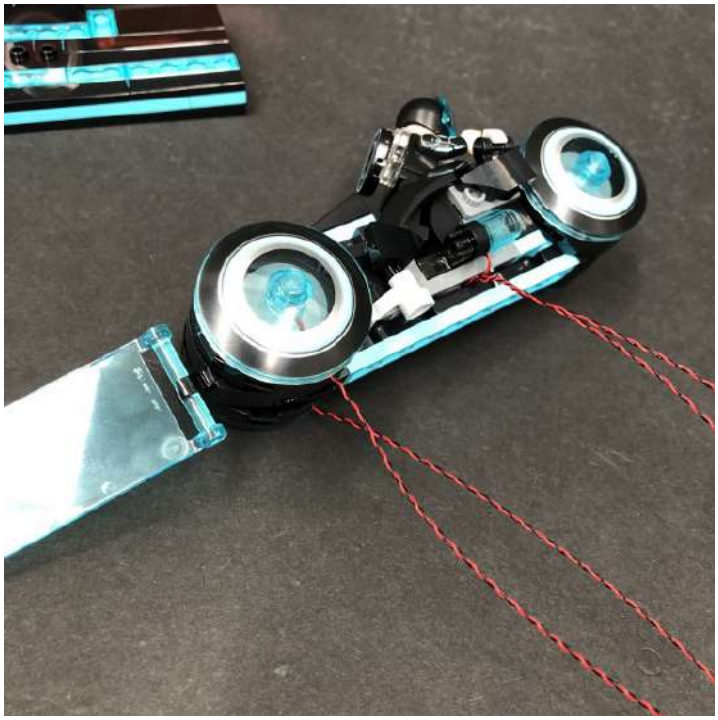
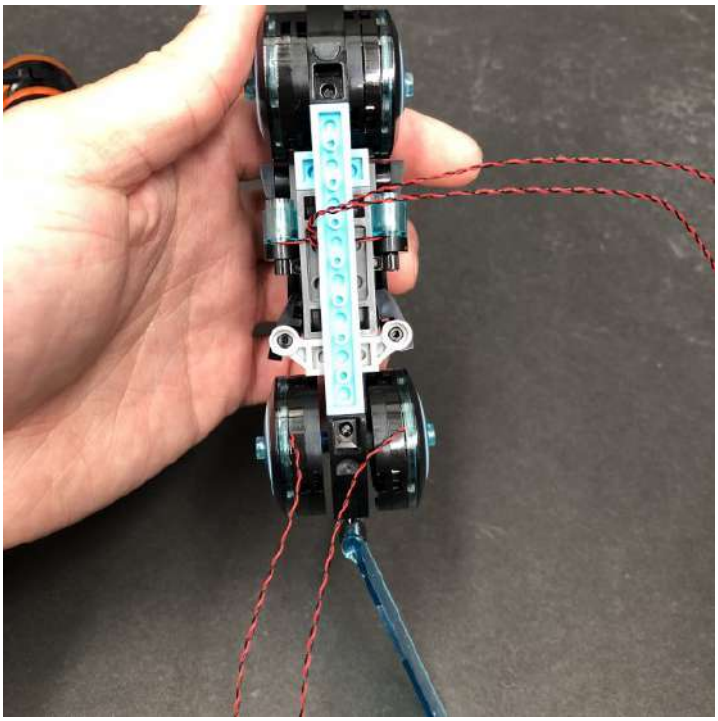
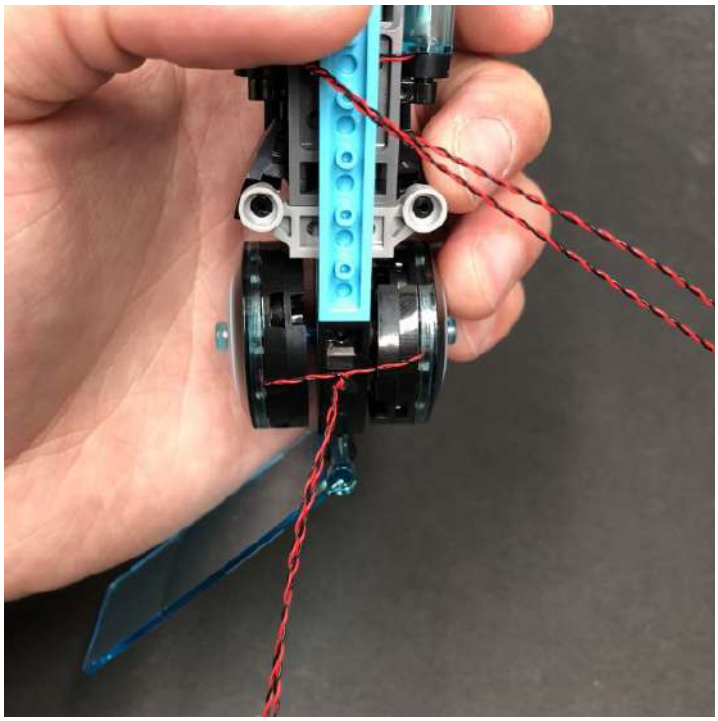


5.) Disconnect the front piece from each back wheel and then take a **Blue 30cm Bit Light** and place it over the centre stud of one of the wheels. Secure the Bit Light in place by reconnecting the front piece over the top ensuring cables are laid in between studs.

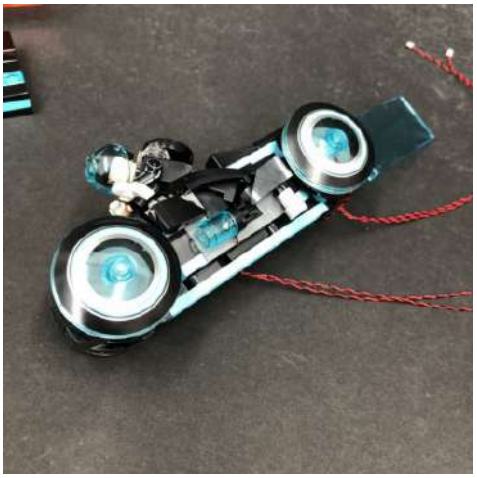



Repeat this process to install another **Blue 30cm Bit Light** to the other back wheel.

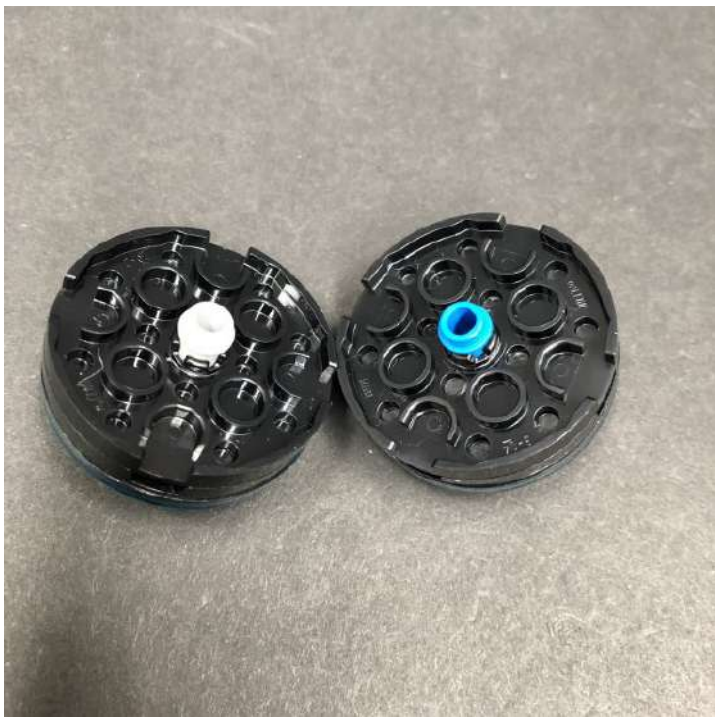
6.) Reconnect the back wheels to the vehicle (ensuring the cables are at the lowest point of each wheel) and then from underneath, grab both cables and twist them around each other a few times.

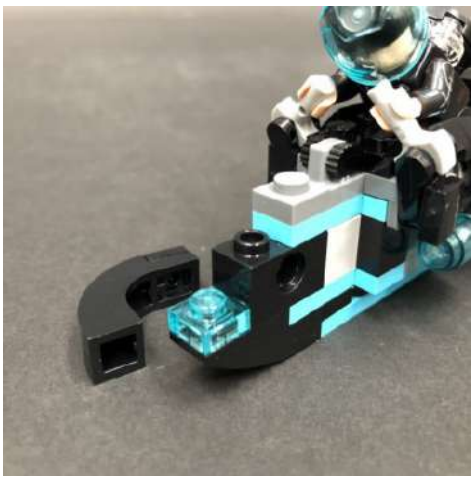
7.) Disconnect the front two wheels and then using the same method we used for the back two wheels, install another **2x Blue 30cm Bit Lights** to the front two wheels using another provided **Technic Pin 1/2 Light Bluish Grey**.

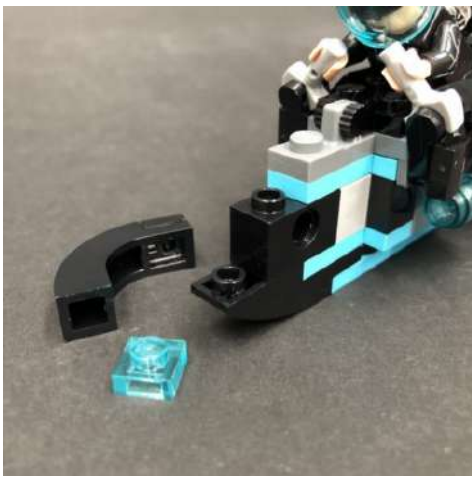




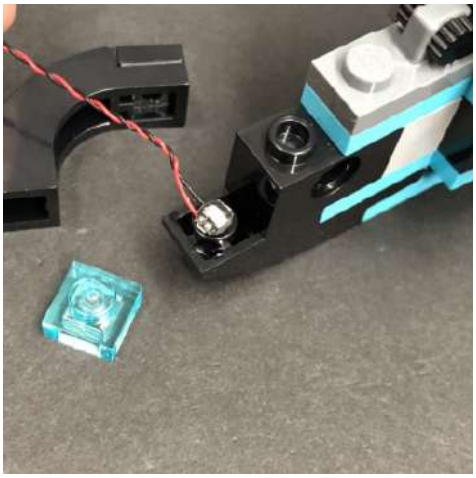
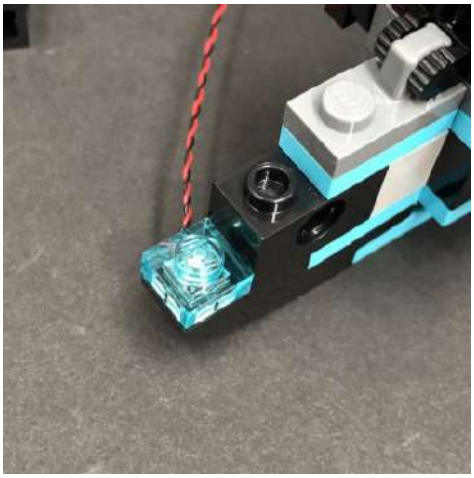
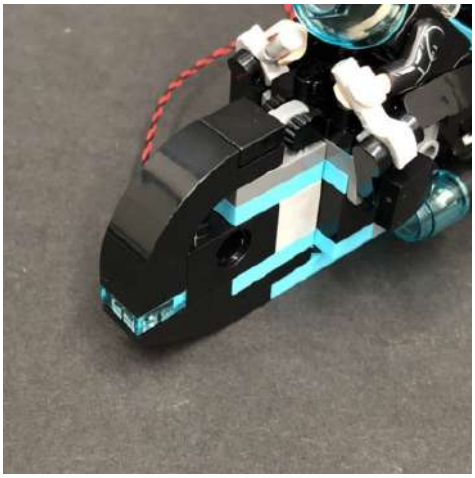


8.) Before reconnecting the front two wheels we need to install a light to the headlight. First disconnect and disassemble the following pieces from the front of the vehicle.

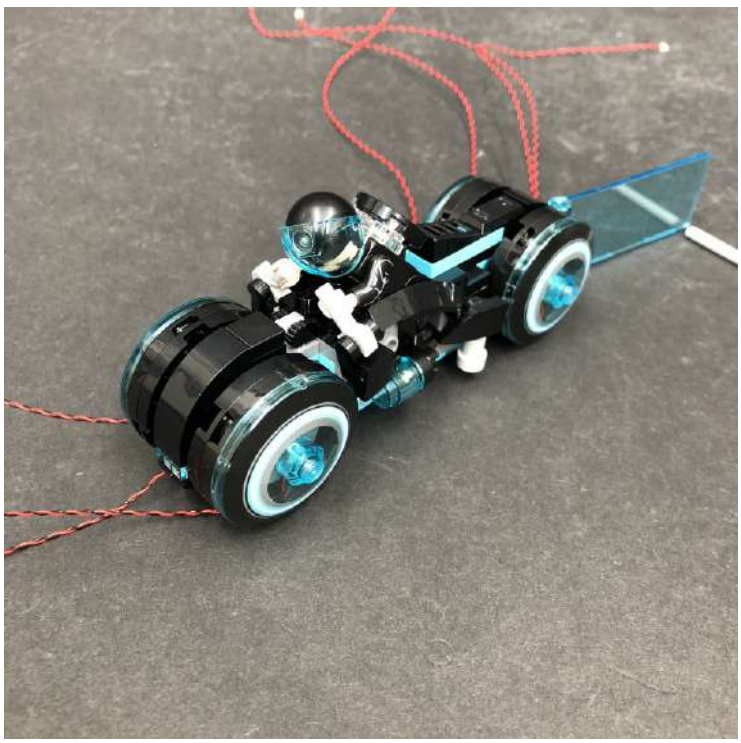


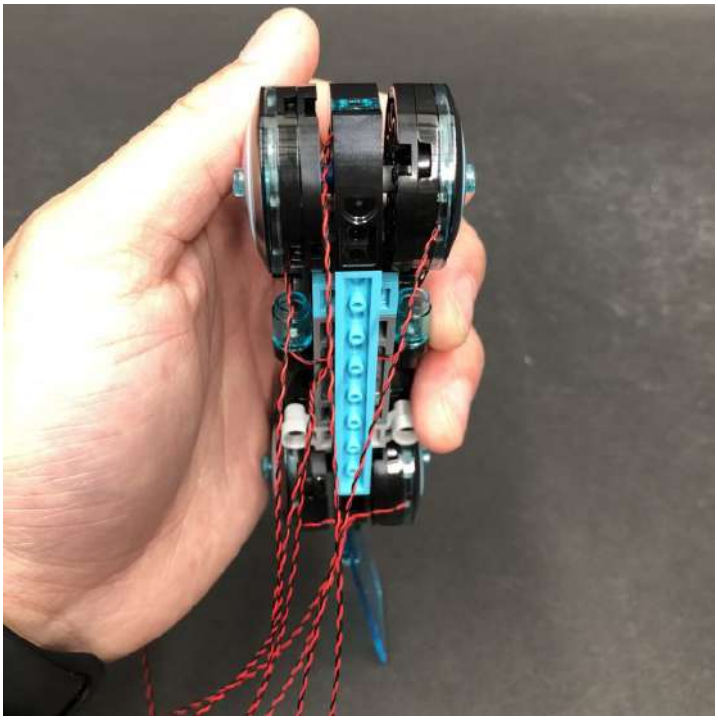


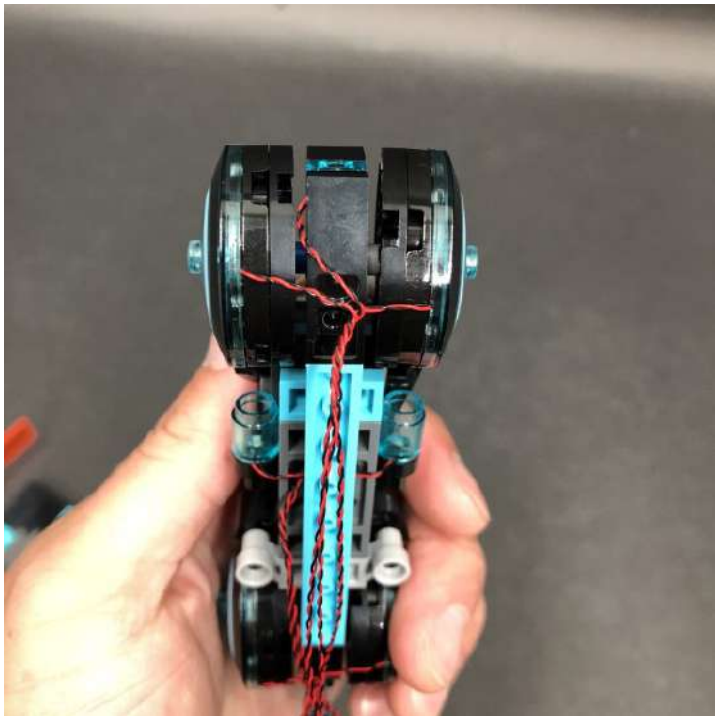
Take the remaining **Blue 30cm Bit Light** and then with the cable facing the right side (facing up), place it over the black stud. Secure the bit light in place by reconnecting the trans light blue plate over the top followed by the black arched piece.

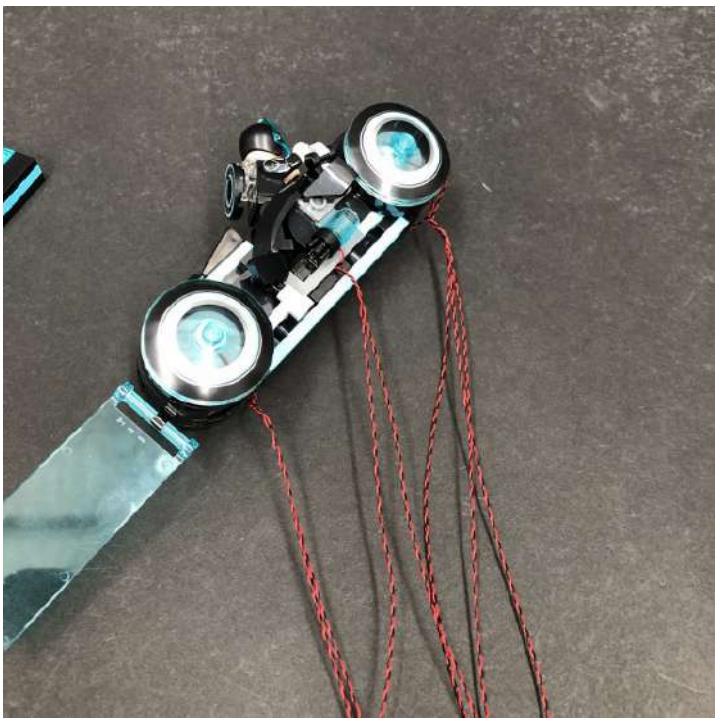
9.) Reconnect the front two wheels (ensuring each cable is at the lowest point of the wheel) and then from underneath, grab the three cables (front wheels and head light) and then twist them around each other as shown below:

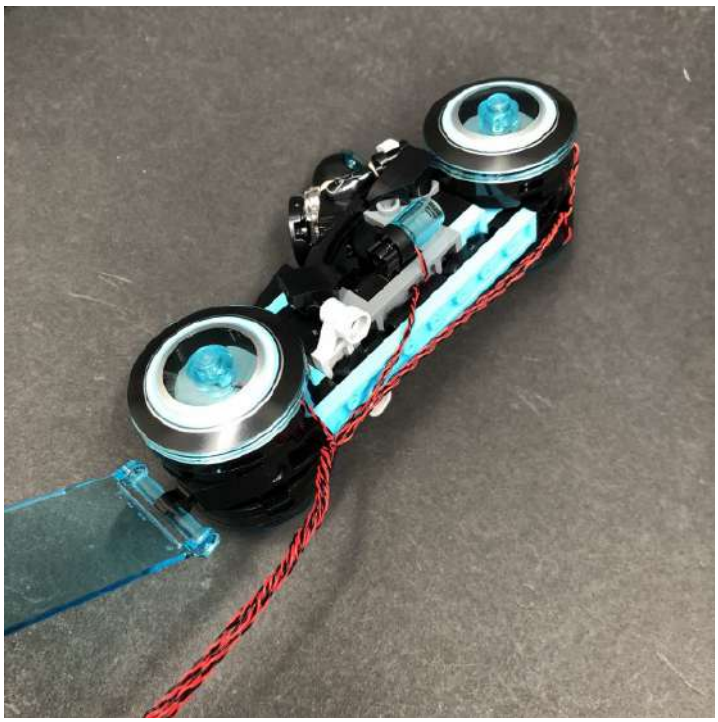




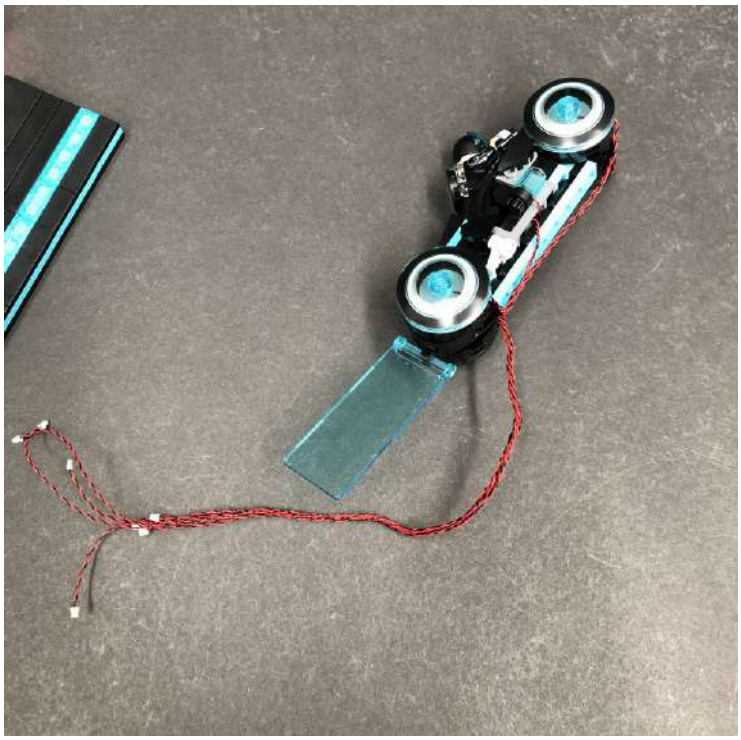


10.) Turn the vehicle on it's left side (front facing up) and then take the three groups of cables and then twist them all around each other from the point directly underneath the back wheels.

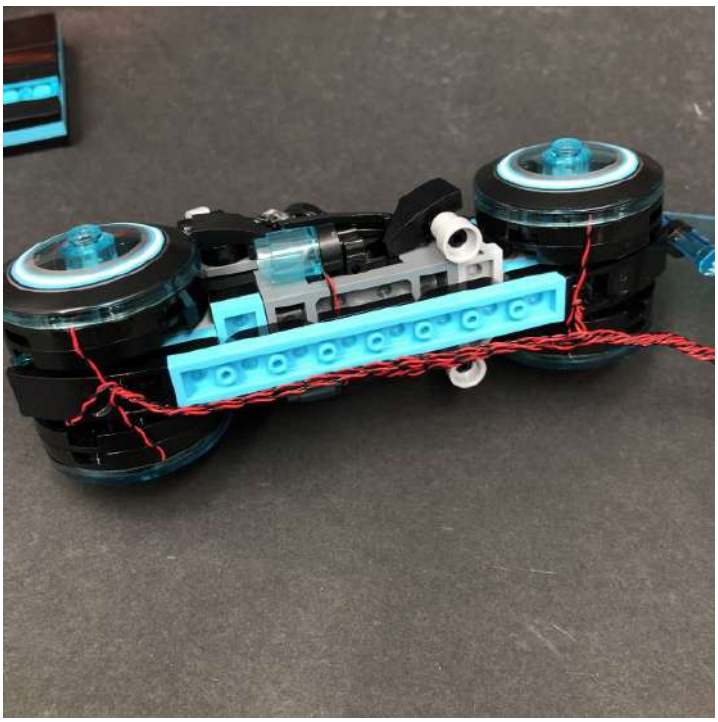


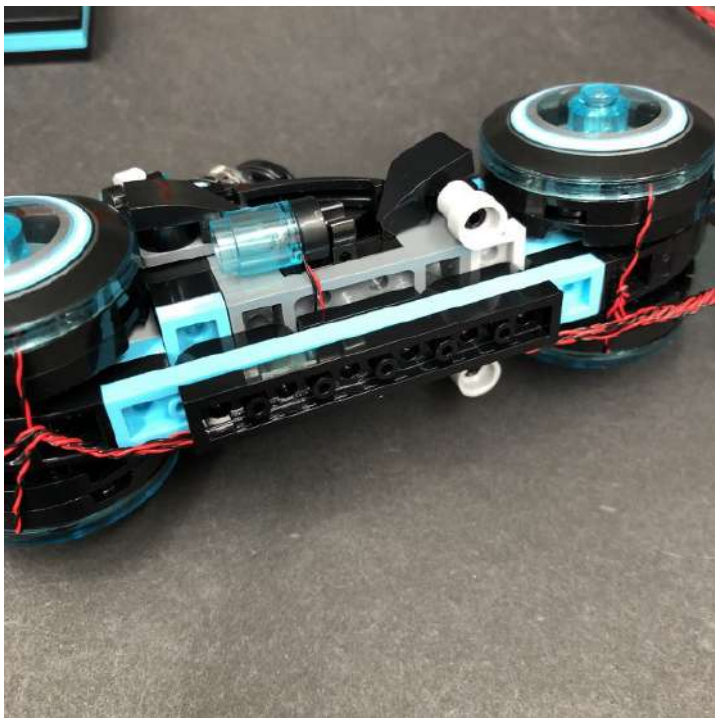


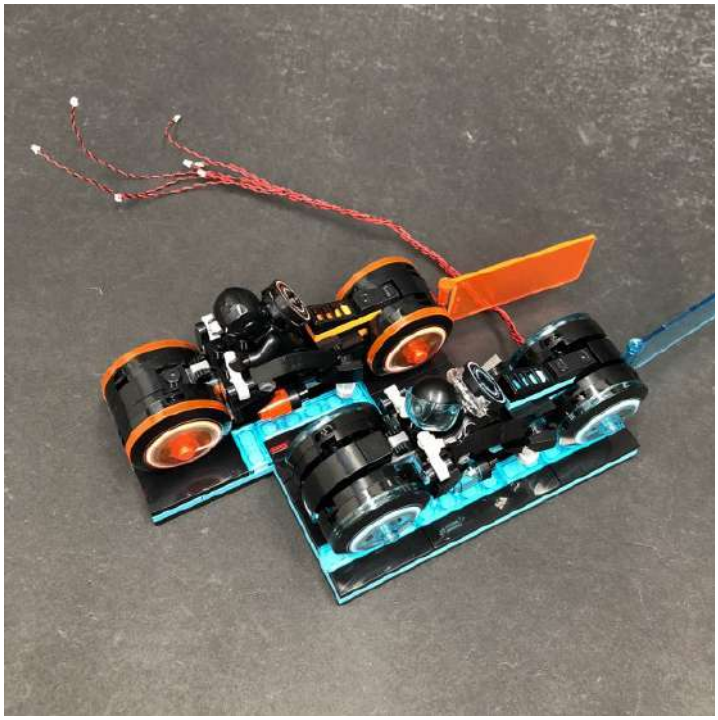
Continue to twist all the cables around each other all the way to the end to form one larger cable



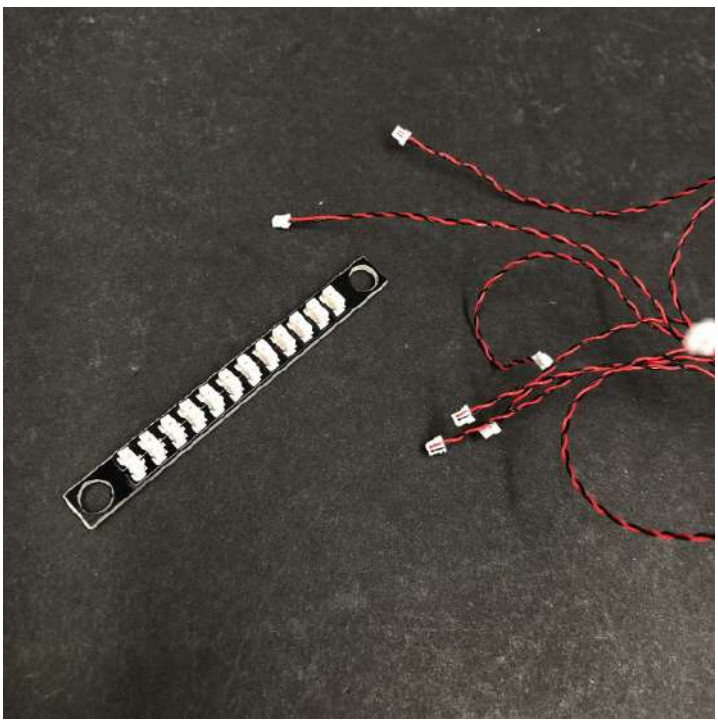
Take a provided **Black 1x6 Plate** and connect it underneath as per below then reconnect the vehicle back to the base plate ensuring cables are facing the right side of the vehicle (behind)

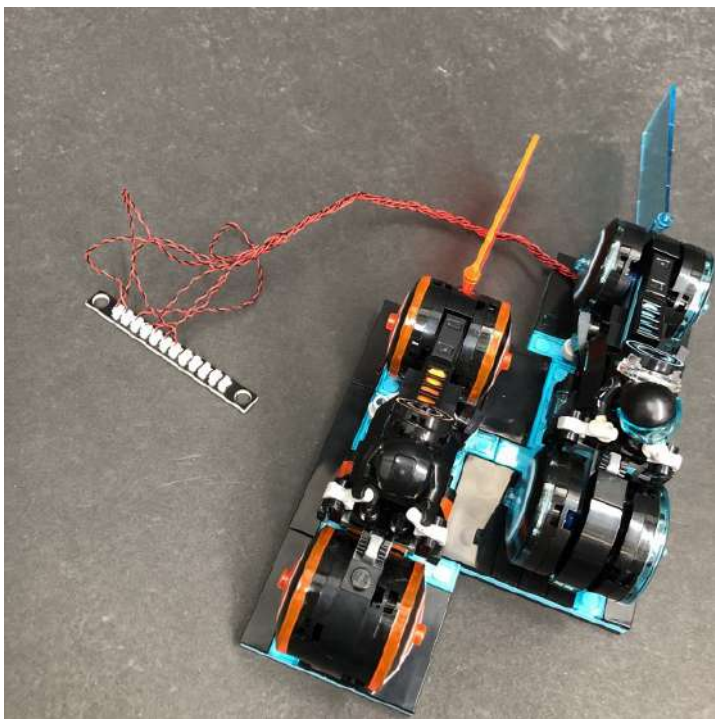




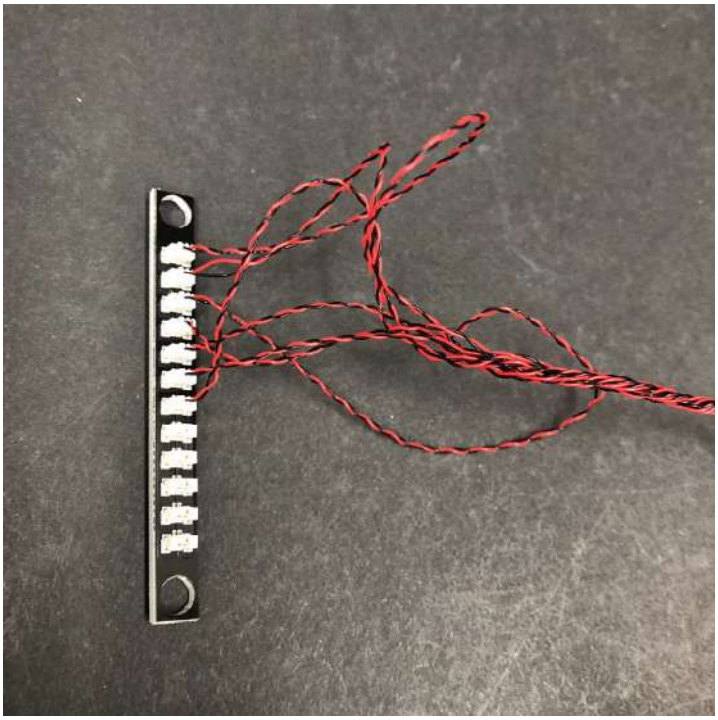


11.) Take the **12-Port Expansion Board** and connect all seven cables to it.

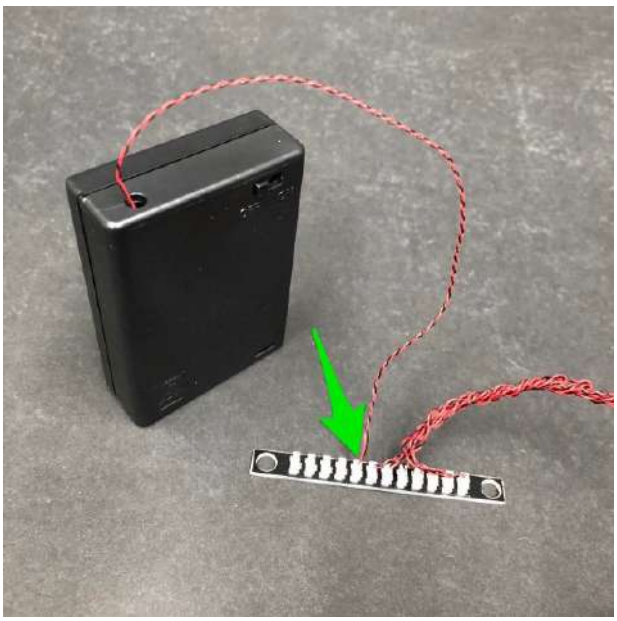


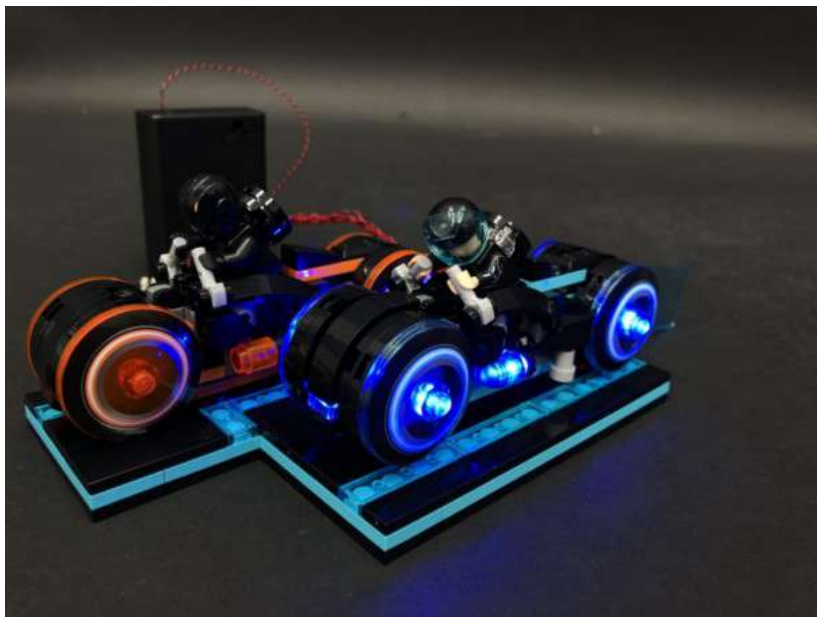


Group all the excess cable together and twist them around the larger cable so they are all neat and grouped together.



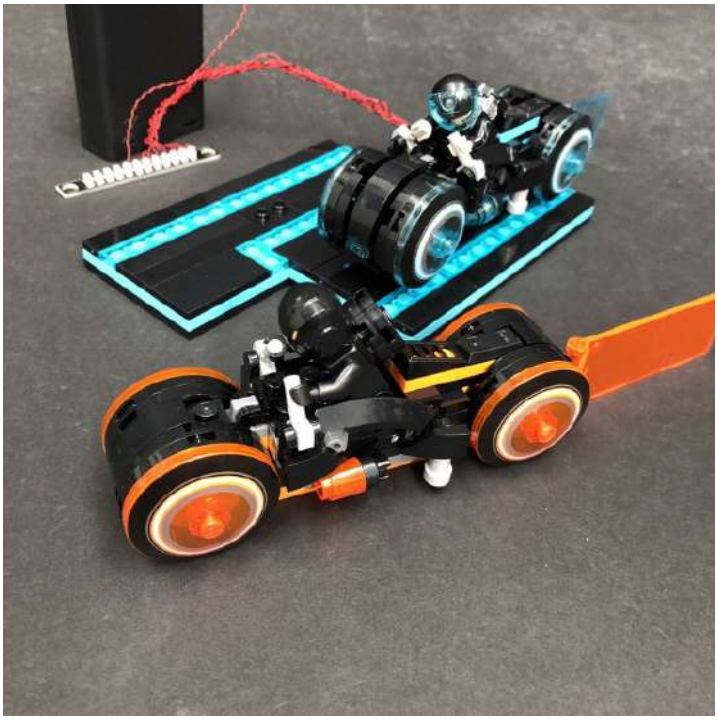
Take the **AA Battery Pack** and insert 3x AA Batteries to it. Connect the battery pack cable to the next available port on the expansion board. Turn the battery pack ON to verify all lights are working OK.



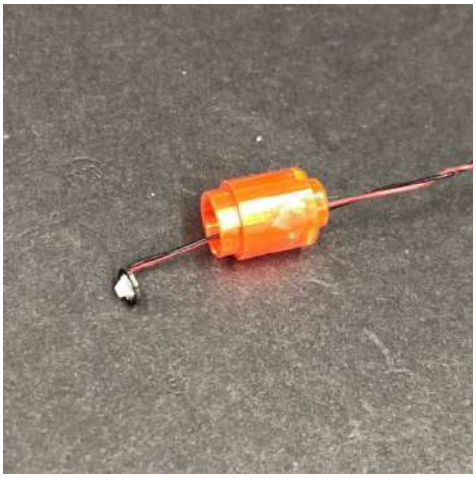


12.) Disconnect the orange vehicle from the base plate and using the same method used for the blue vehicle, install **7x Orange 30cm Bit Lights** to the orange vehicle.

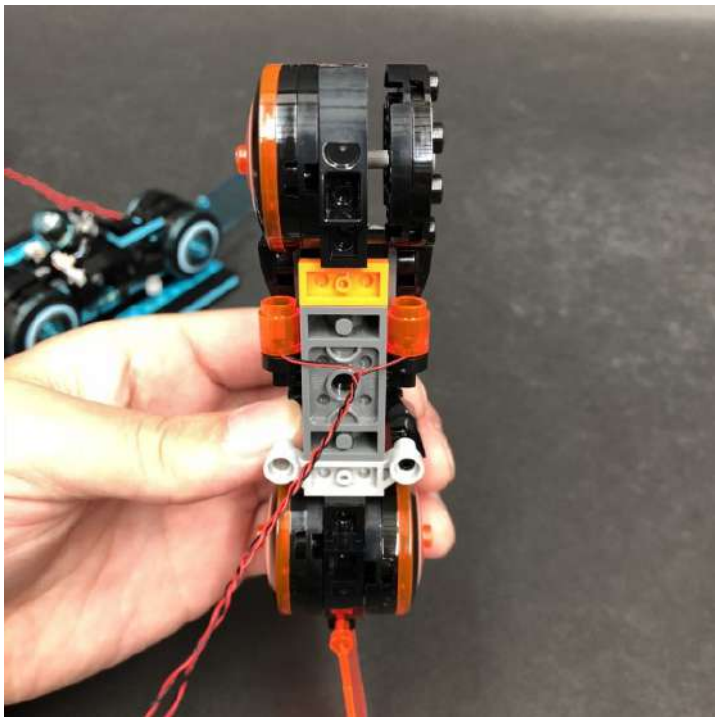
First disconnect and disassemble the following pieces.




13.) Install Orange Bit Lights to the side lights remembering to slightly bend the bit light on a 90 degree angle so that it is facing upward.

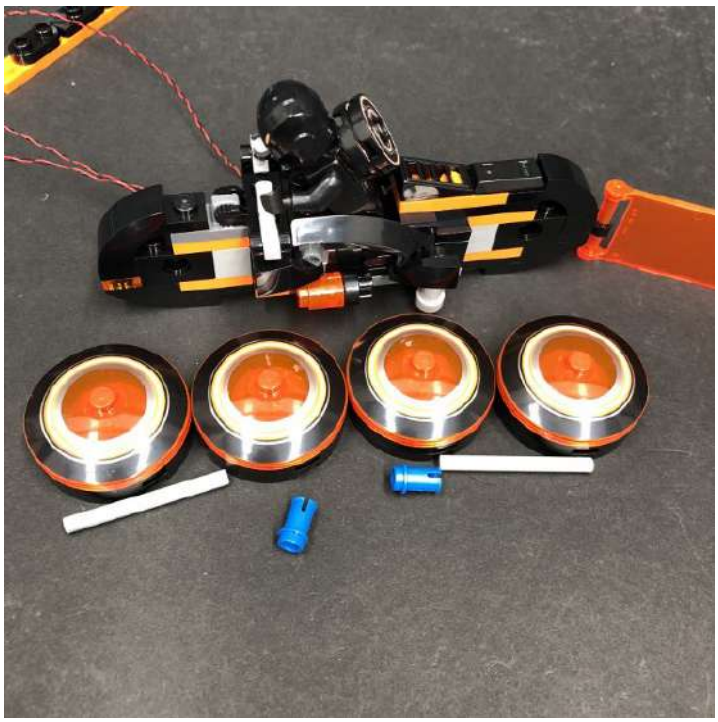


14.) Group cables together and twist them around each other a few times

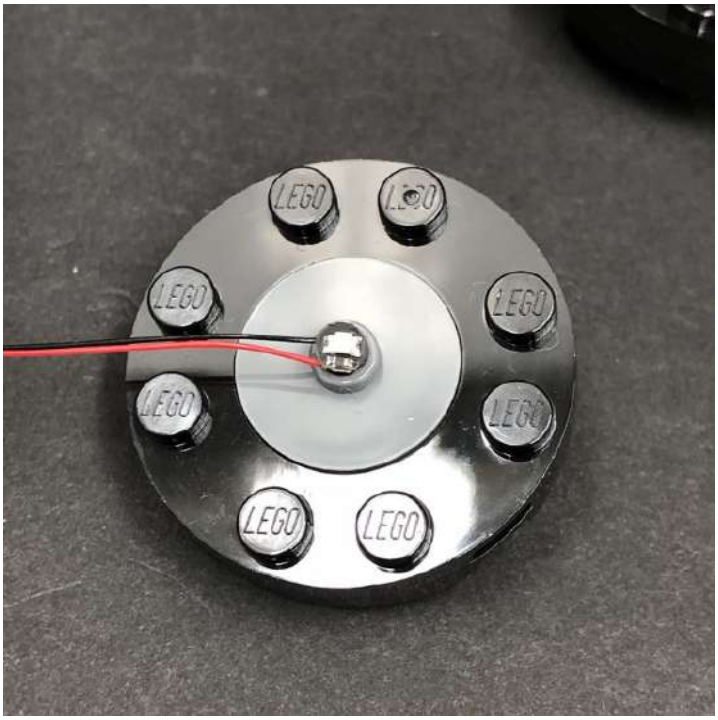
Reconnect bottom 1x8 plate.

15.) Disconnect and disassemble pieces from the four wheel sections.

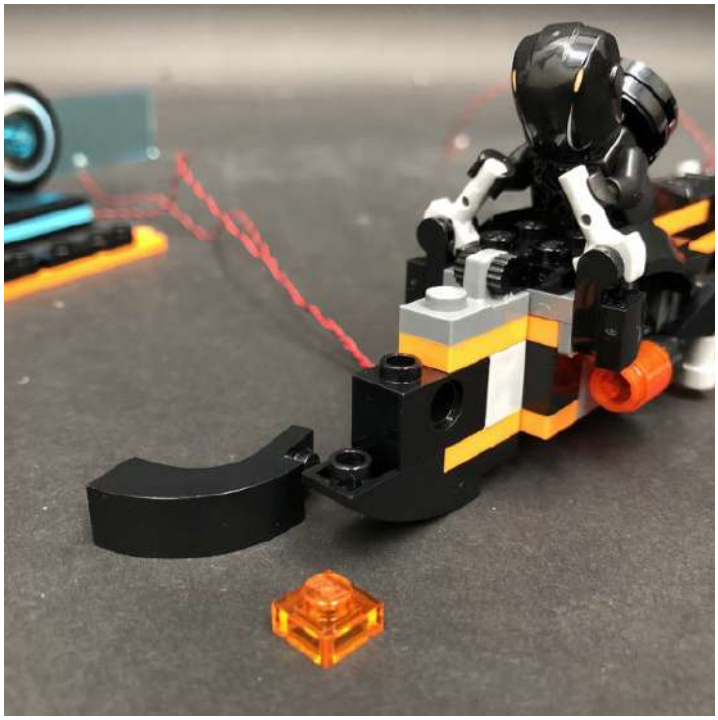


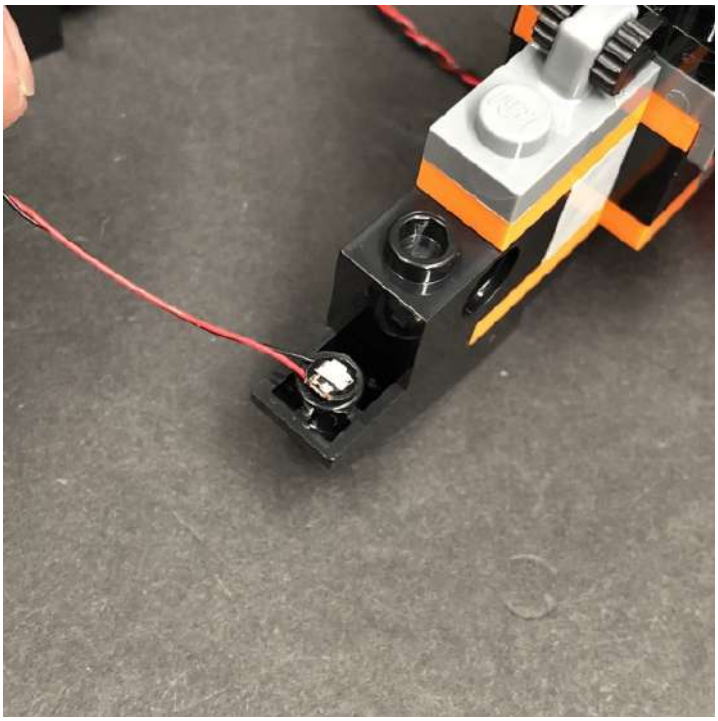
Connect technic pins to the inside of each wheel using **2x provided Technic Pins 1/2 Light Bluish Grey** along with the existing blue technic pins 1/2

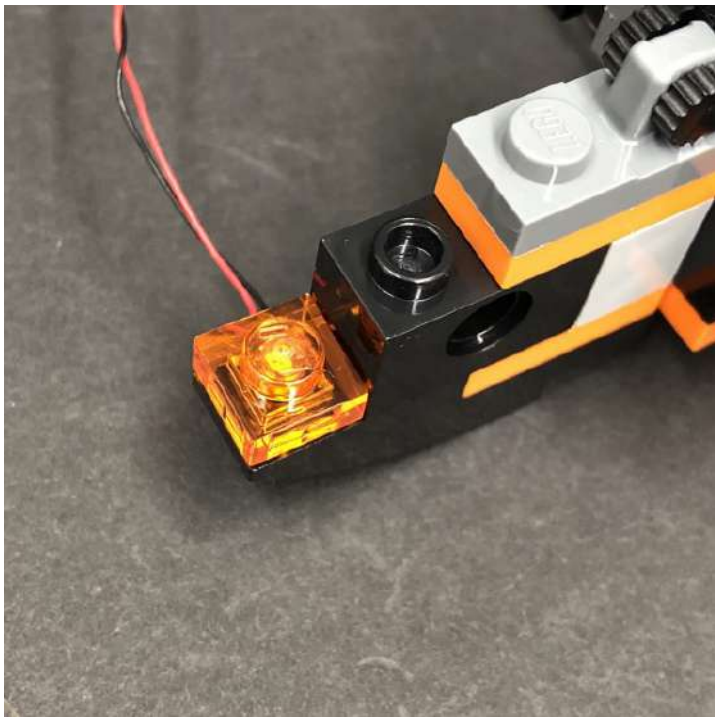
16.) Disconnect the front of each wheel and install Orange 30cm Bit Lights to each wheel

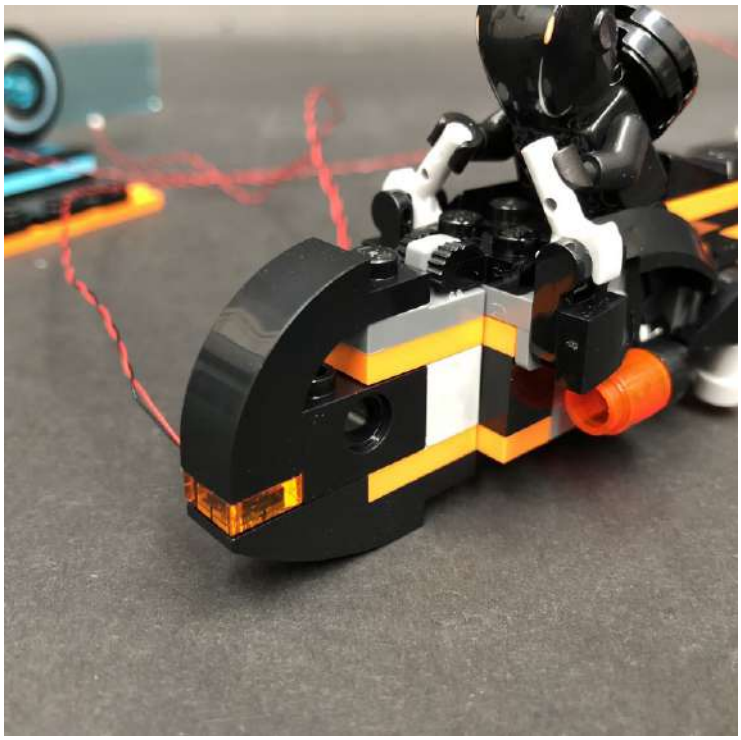


17.) Before reconnecting the wheels, disconnect pieces from the front and install the remaining Orange 30cm Bit Light to the front for the headlight.

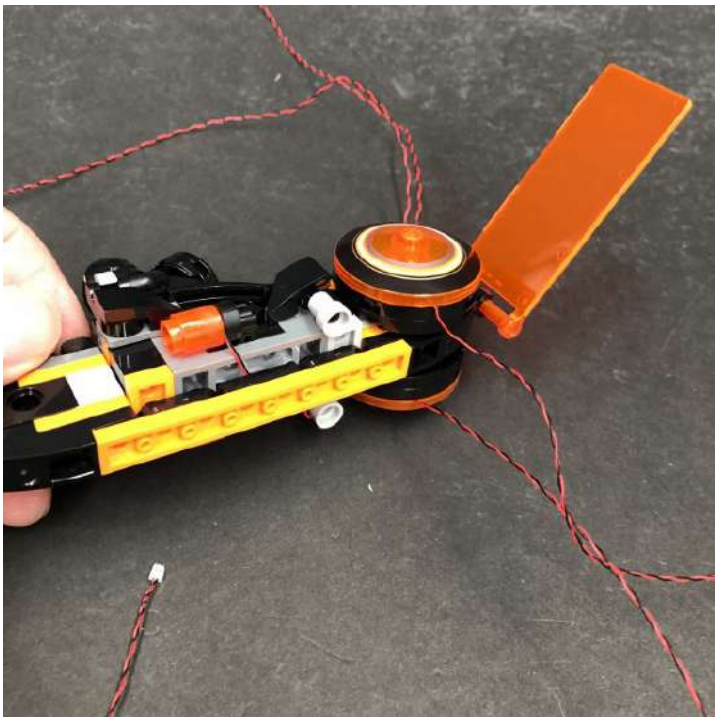


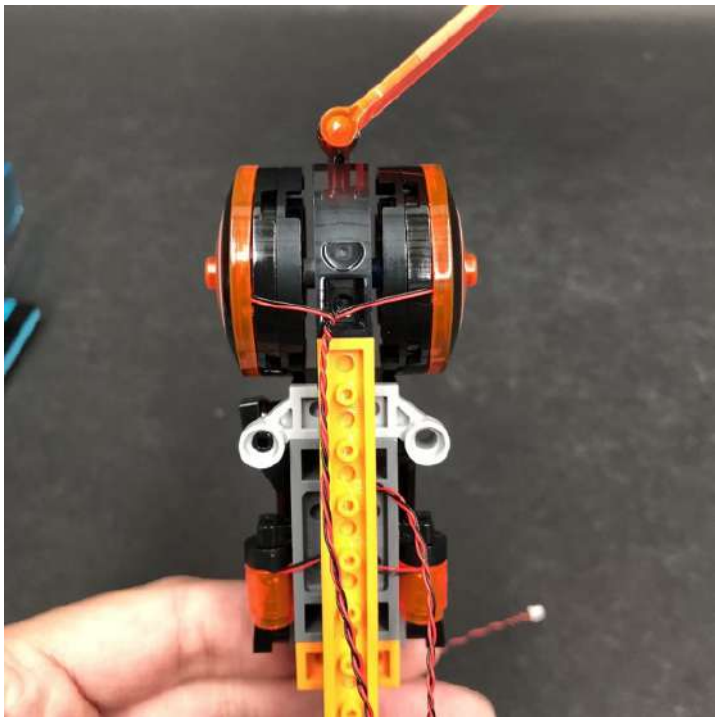




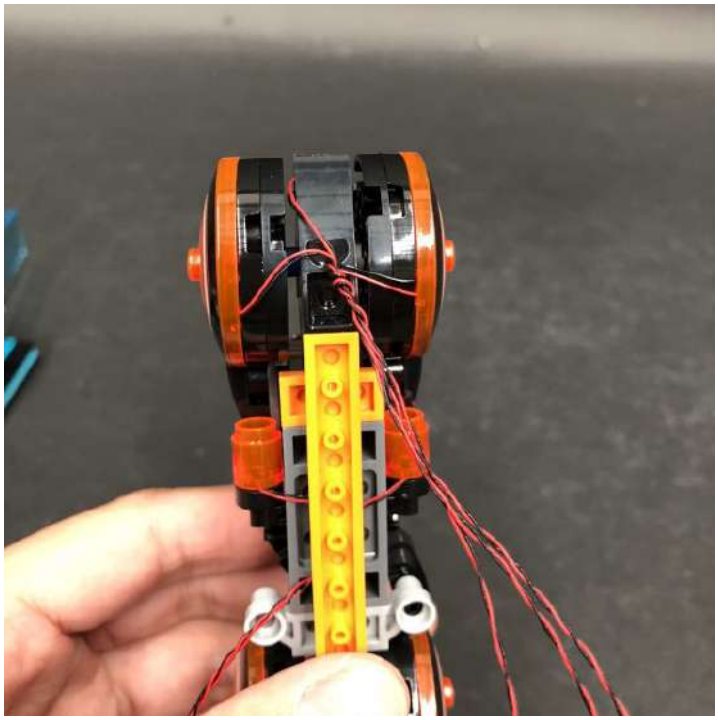


18.) Reconnect the back wheels first then from underneath the vehicle, twist the cables around each other.

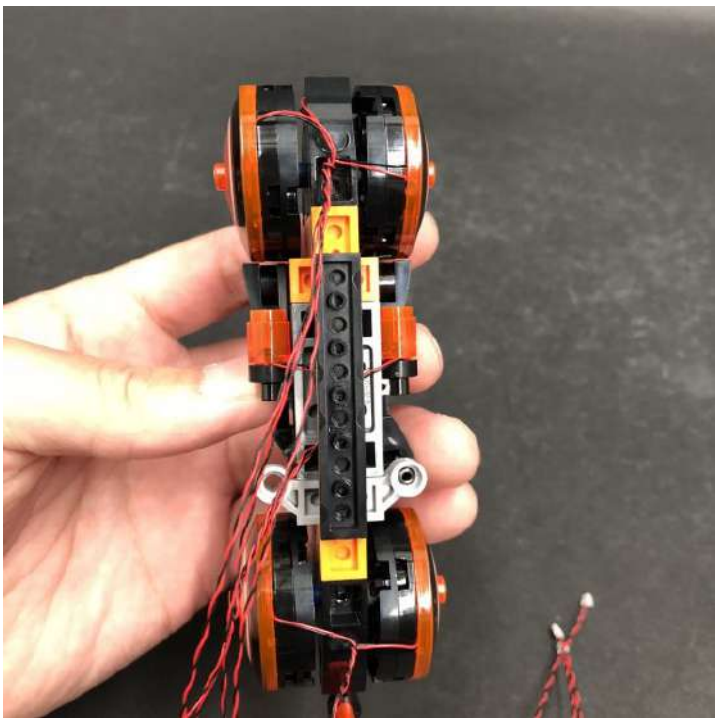


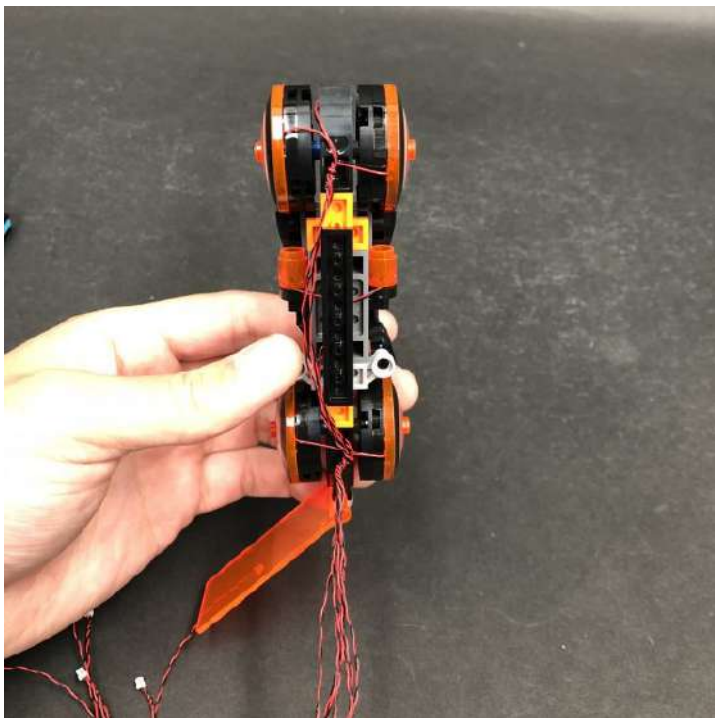


19.) Reconnect the front wheels and then from underneath the vehicle, take the two wheel cables and headlight cable and twist them around each other

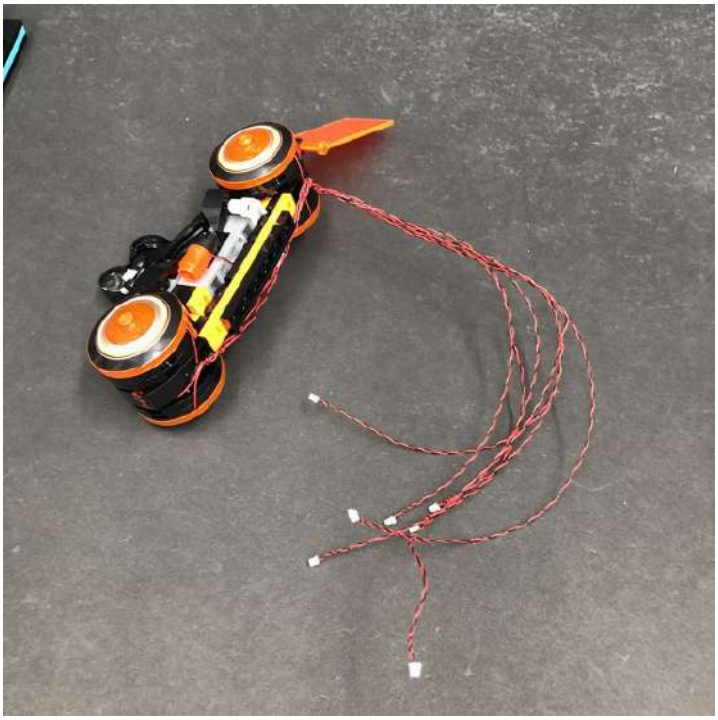


20.) Take the remaining Black Plate 1x6 and connect it underneath the vehicle then group all seven cables and twist them around each other at the point directly underneath the back wheels.

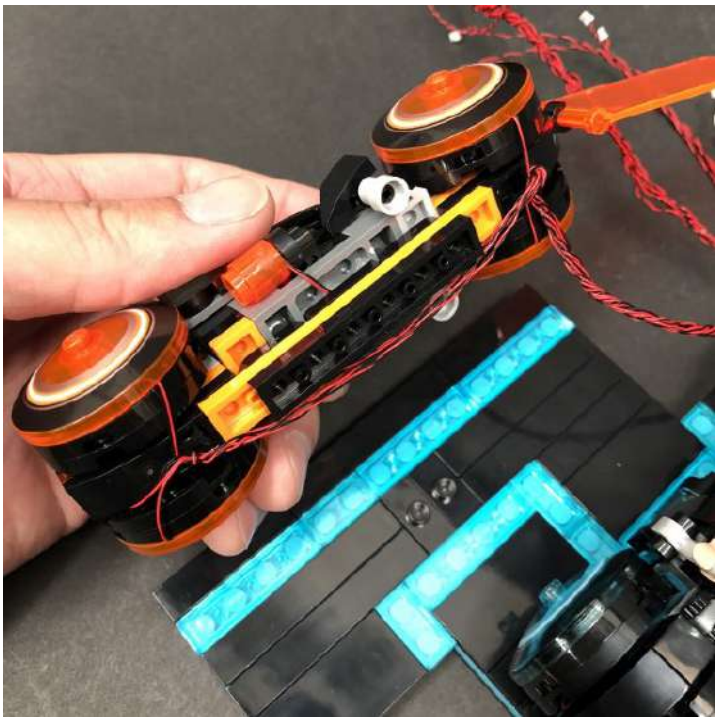


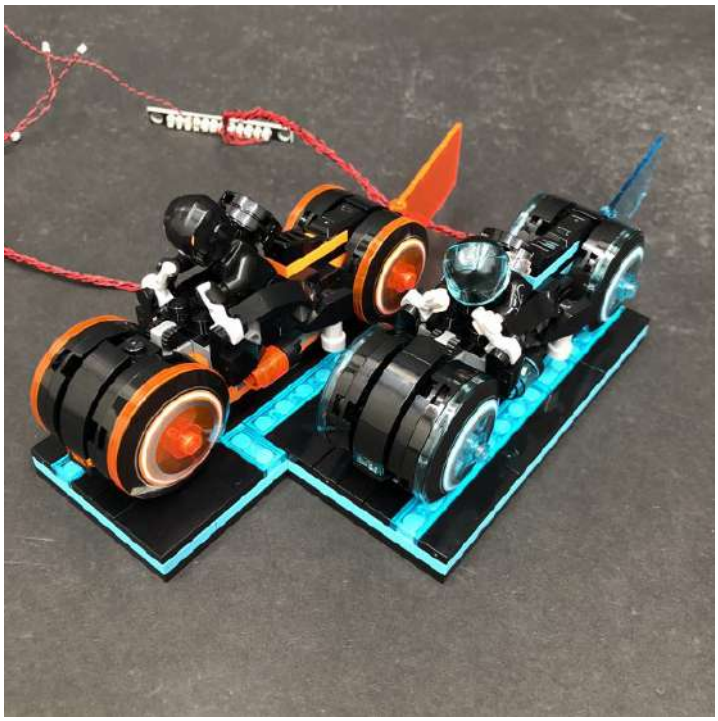


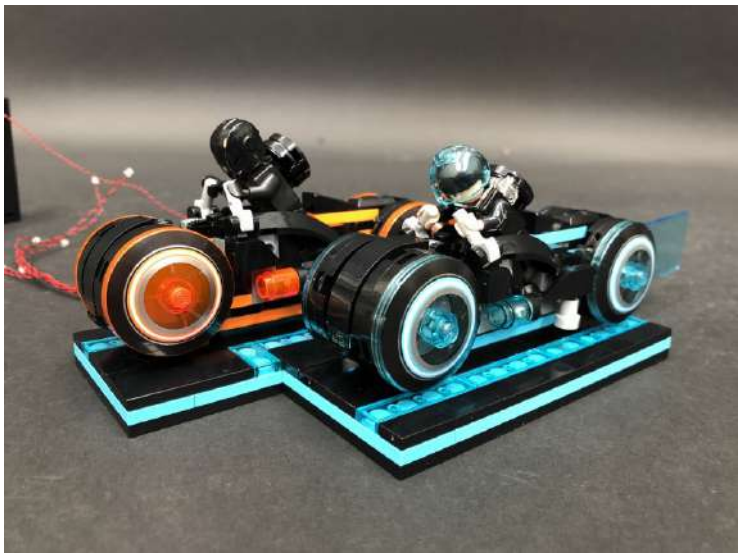
21.) Twist all the cables around each other all the way to the end to form one larger cable



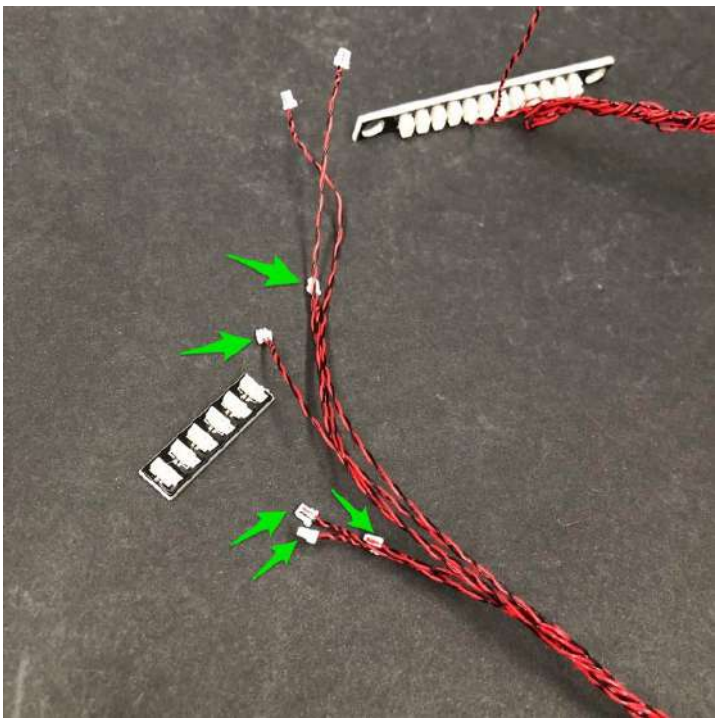
Ensure cables are laid and facing the right side of the vehicle (cables facing back) before reconnecting it to the base plate.

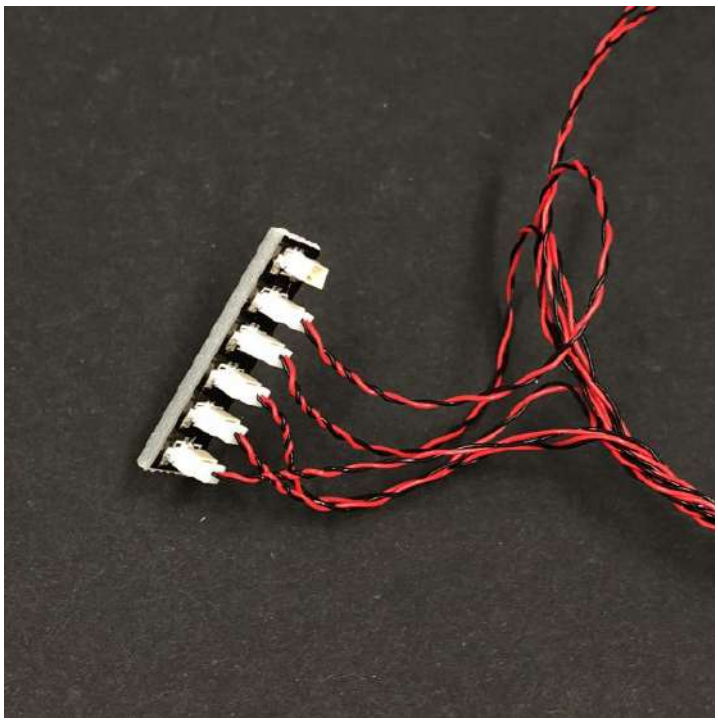




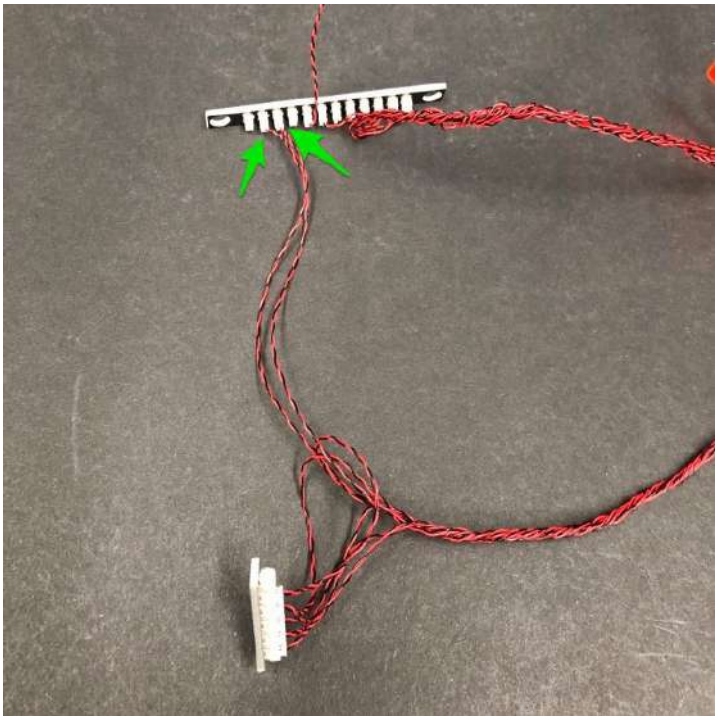


22.) Take the **6-Port Expansion Board** and then connect the shortest five cables from the orange vehicle to it.

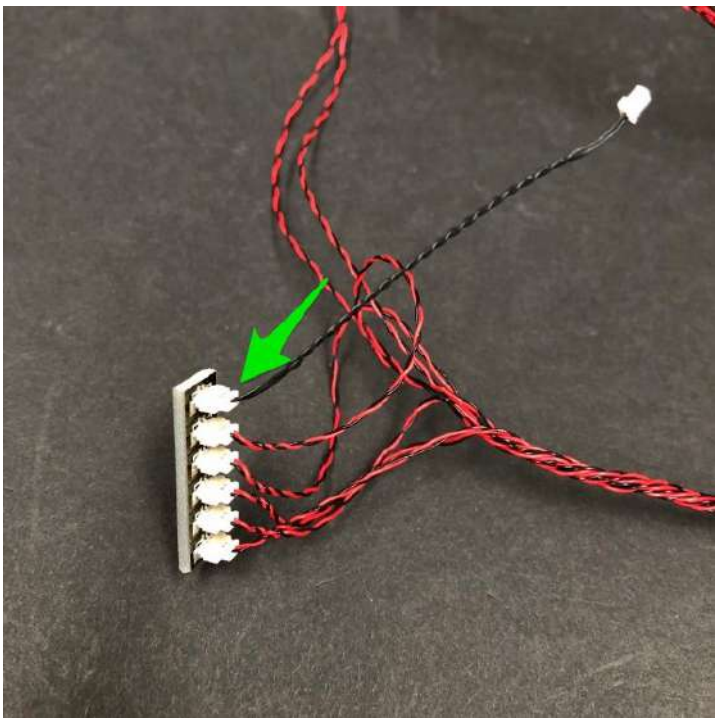


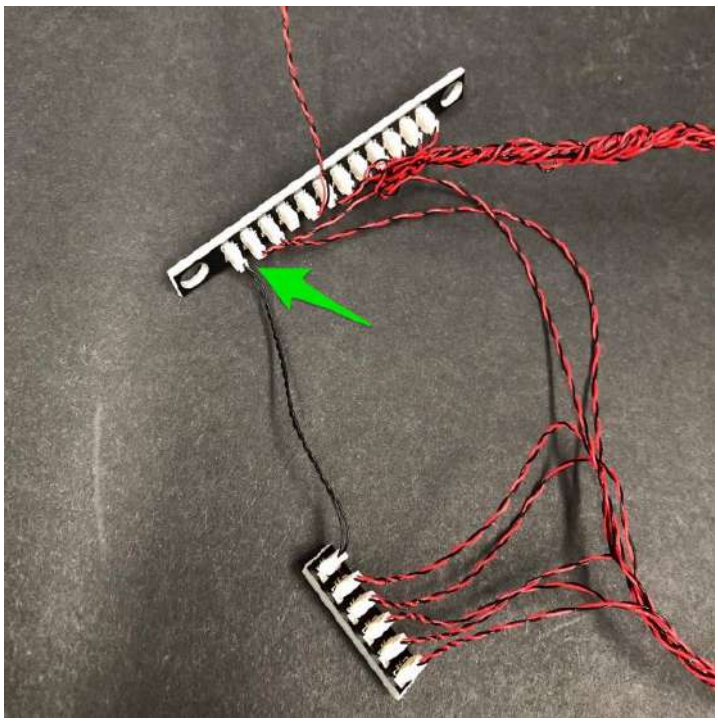


Connect the two longer cables from the orange vehicle to the 12-port expansion board.

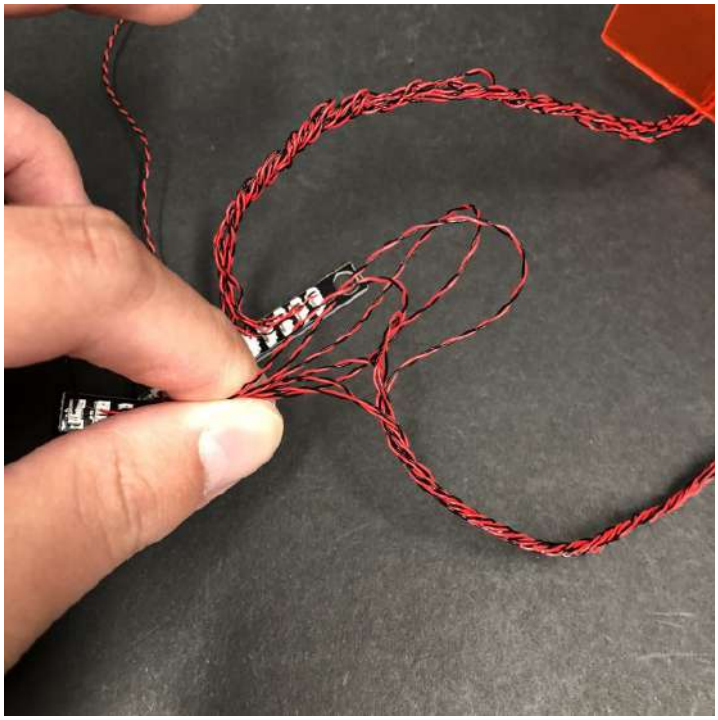


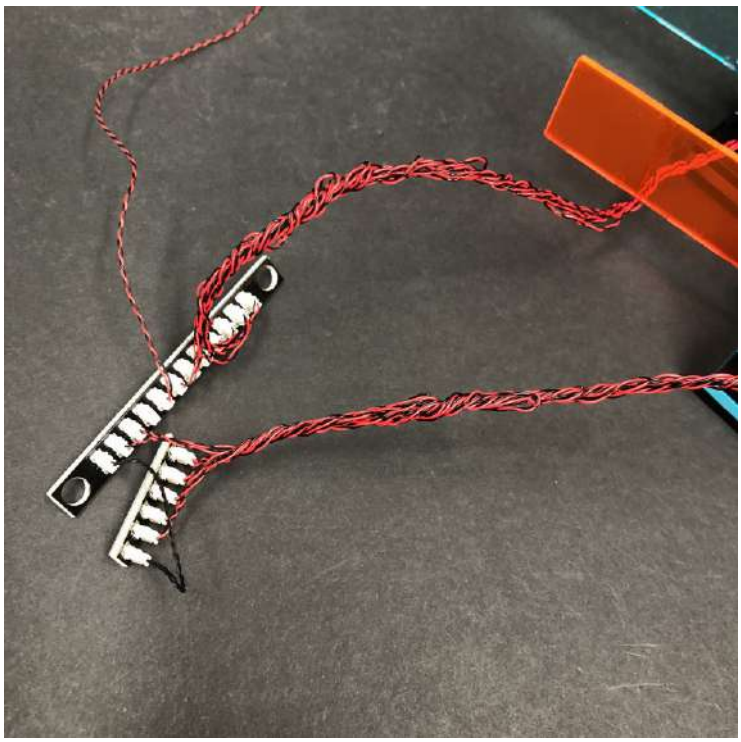
23.) Take the **5cm Connecting Cable** and connect one end to the remaining port on the 6-port expansion board and then connect the other end to a spare port on the 12-port expansion board.



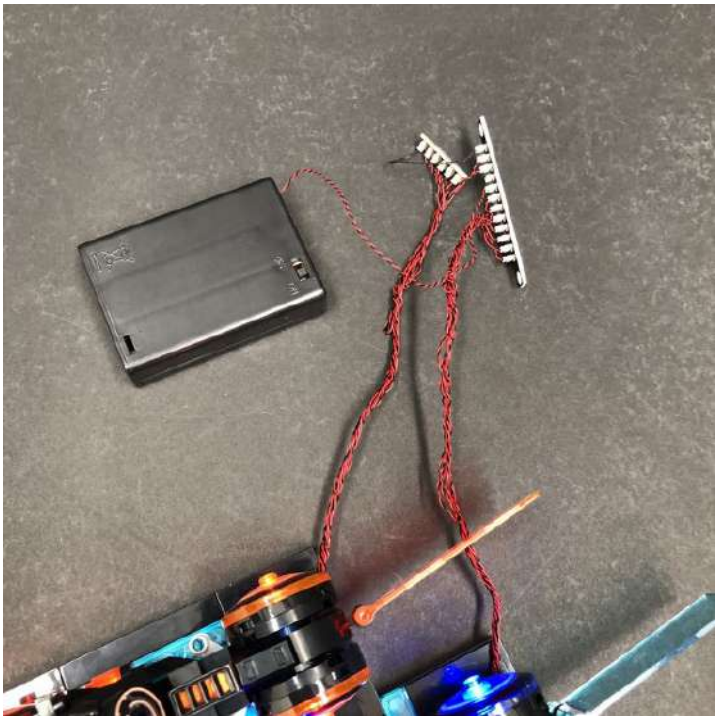


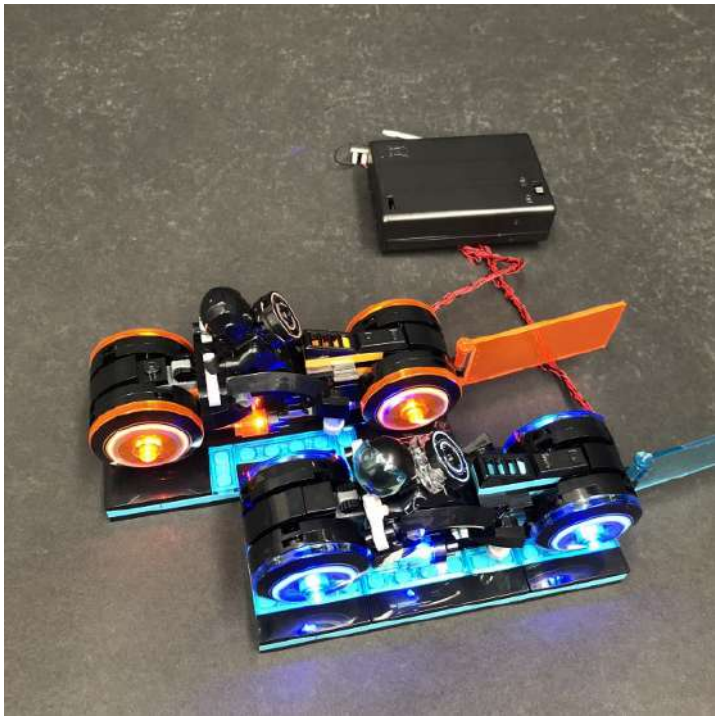
24.) Clean up messy cables by grouping excess cabling from the orange vehicle and twisting them around each other to form a larger cable.





Finally, neaten up all your components behind the LEGO set, then turn the battery pack ON to verify all is working OK.





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This finally completes installation of the TRON Legacy 21314 Light Kit.
We hope you enjoy your light kit.

We Thank YOU for purchasing this Light Kit!

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