LIGHT MY BRICKS: LEGO Fiat 500 10271 Lighting Kit

The following page is the instructions for the **Light My Bricks Fiat 500 (10271) LED light kit.**

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

To ensure a trouble-free installation of your light kit, please read and follow each step carefully. These instructions can be downloaded in PDF format **here**

Please note: This page lists instructions for the LED light kit only. If you are wishing to purchase the Light My Bricks LEGO Fiat 500 (10271) LED light kit , please click here to view the product page

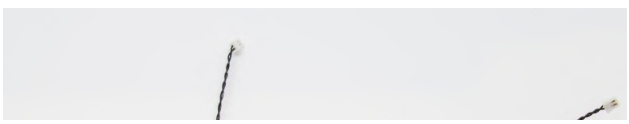
Package Contents:

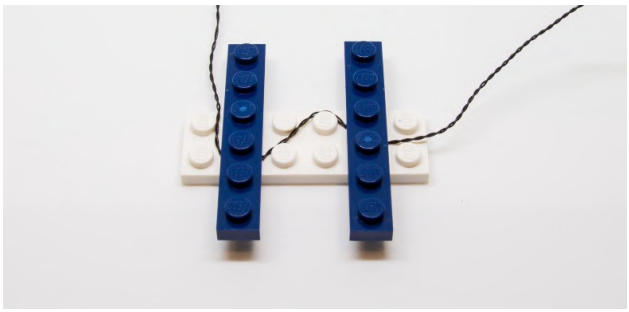
- 5x **White 15cm Bit Lights**
- 4x **White 15cm Micro Bit Lights**
- 1x **8-Port Expansion Board**
- 1x **Micro 2-4 Port Expansion Board**
- 1x **NC Push Board**
- 2x **15cm Connecting Cables**
- 4x **Ahdesive Squares**
- 1x **Flat Battery Pack** (requires 2x CR2032 Batteries)

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.

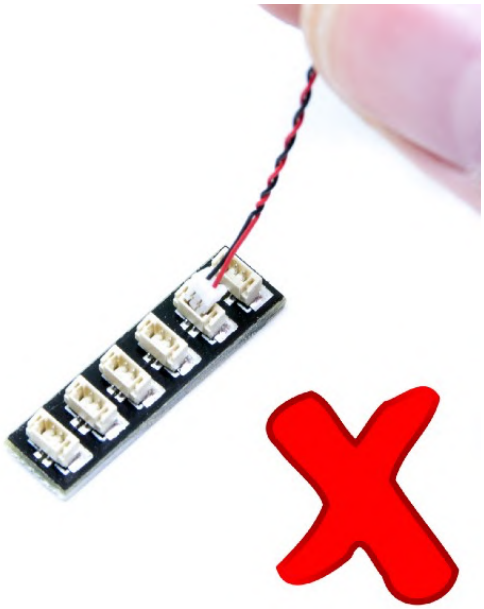


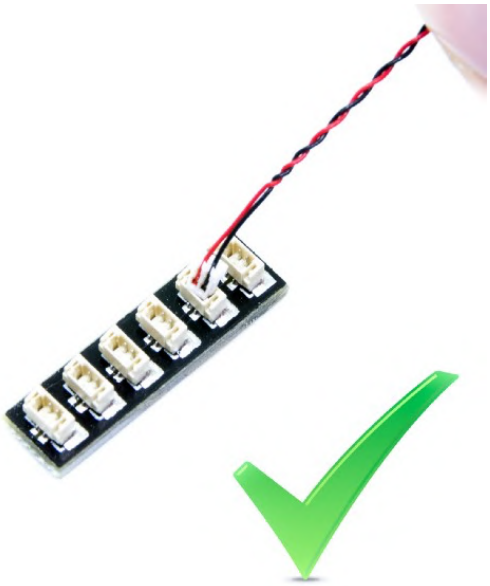


CAUTION: Forcing LEGO® to connect over a cable can result in damaging the cable and light.

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.

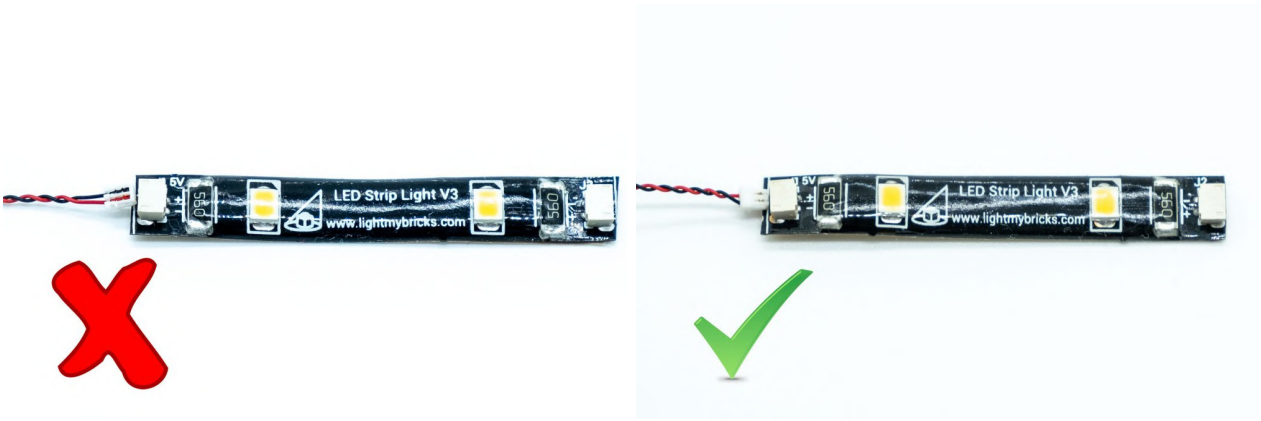




Incorrectly inserting the connector can can result in bent pins inside the port or possible overheating of the expansion board when connected.

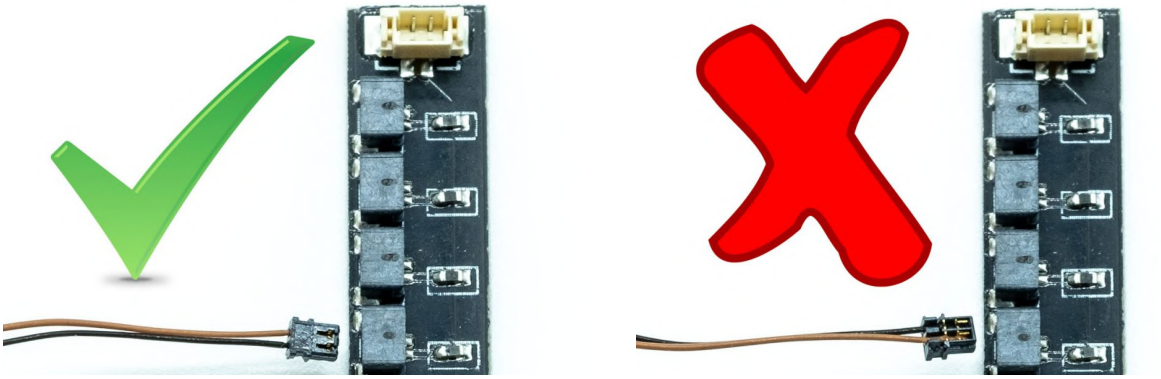
Connecting cable connectors to Strip Lights

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.



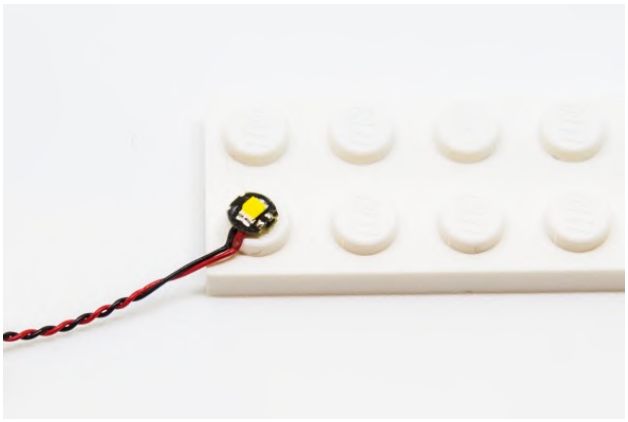
Connecting Micro Cable connectors to Micro Expansion Board Ports

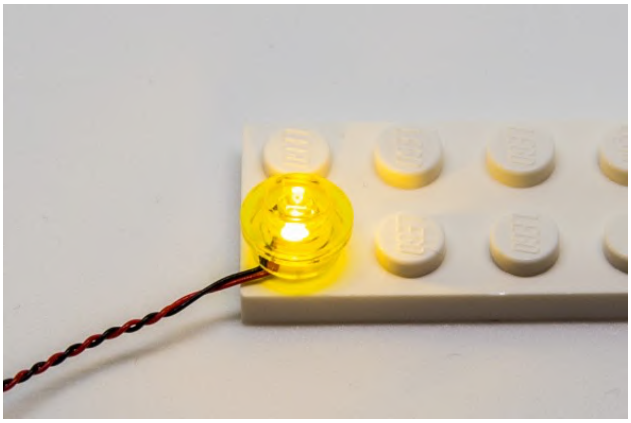
Take extra care when inserting the micro connectors to micro ports of Micro Expansion Boards. Connecting Micro Bit Lights to Micro Expansion Boards is similar to connecting lights and cables to Strip Lights. With the expansion board facing up, ensure the side of the connector with the wires exposed is **facing down**. If a plug won't fit easily into a port connector, do not force it. Use your fingernail to push the plastic part of the connector to the micro port.

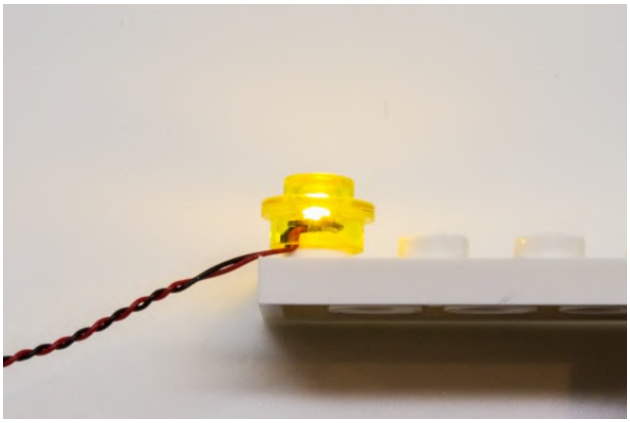


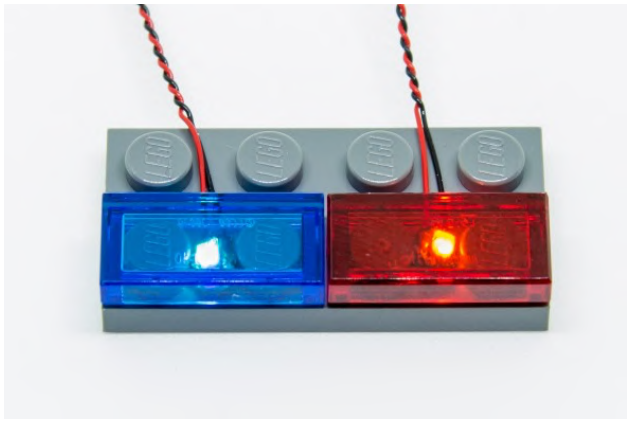
Installing Bit Lights under LEGO® bricks and plates.

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.



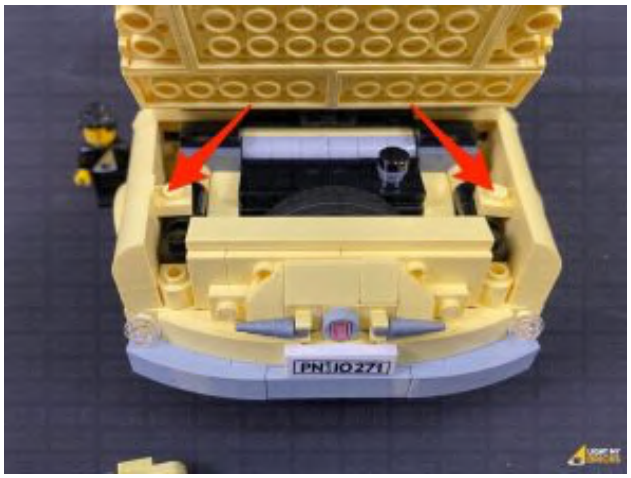


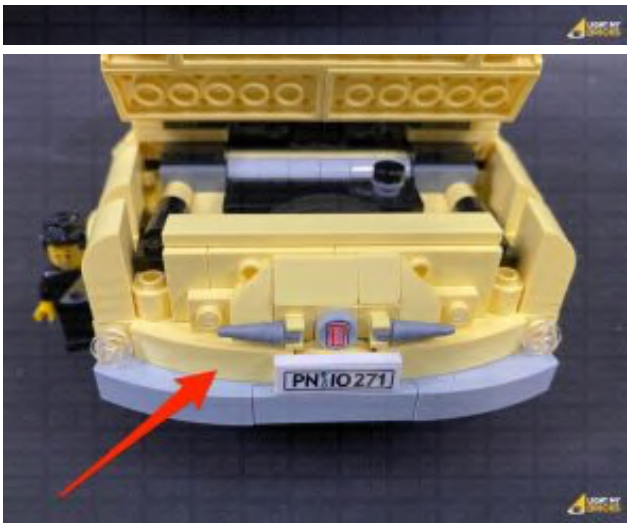
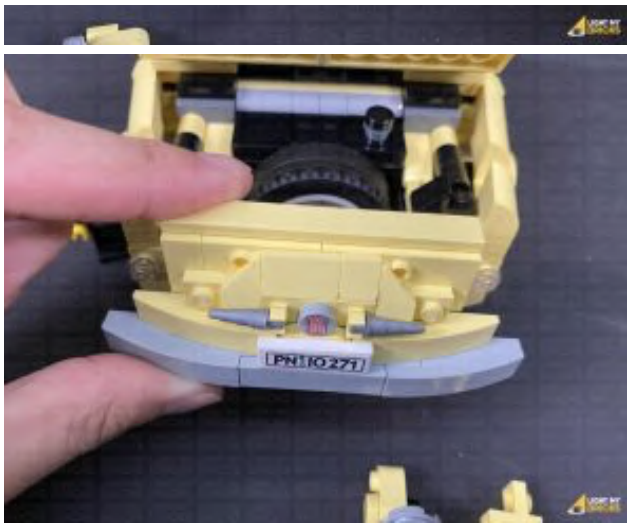


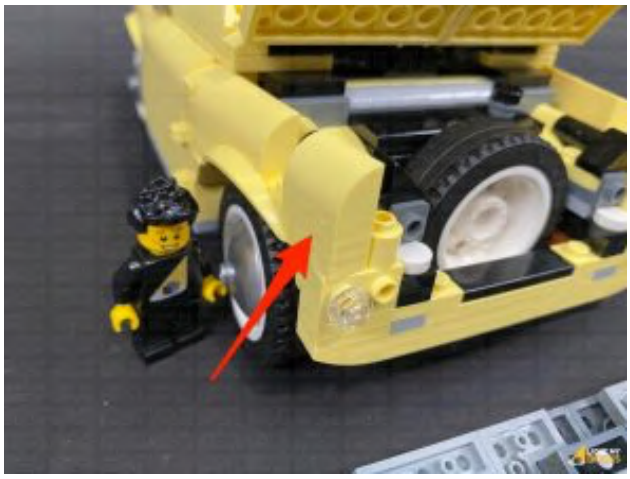


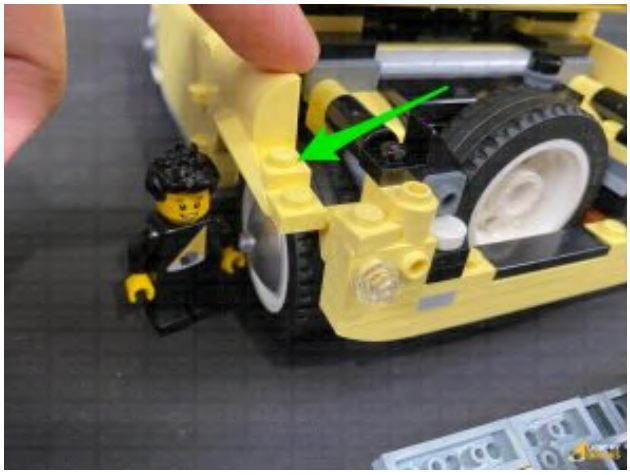
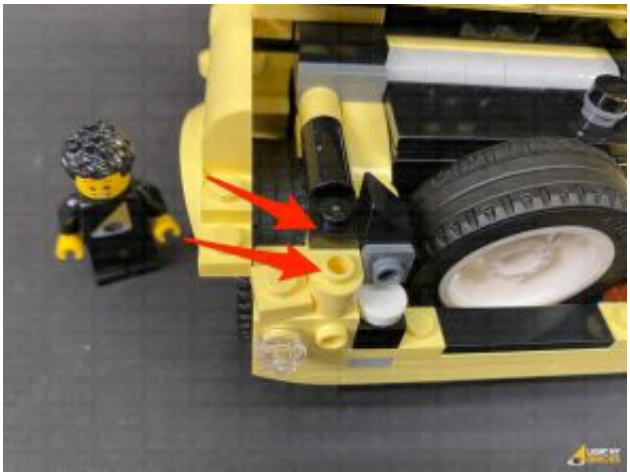
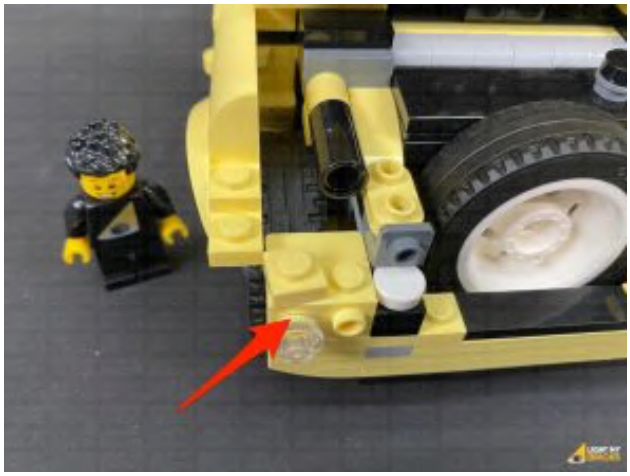
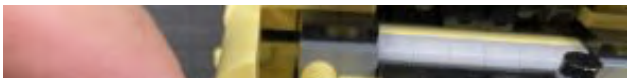
OK, Let’s Begin!

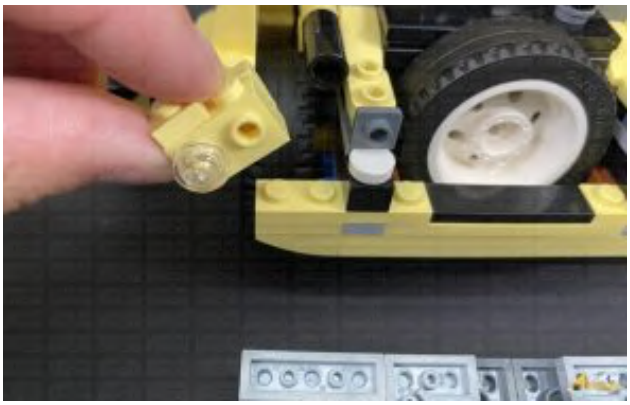
1.) Start by lifting up the hood and disconnecting the following sections surrounding the front of the vehicle:

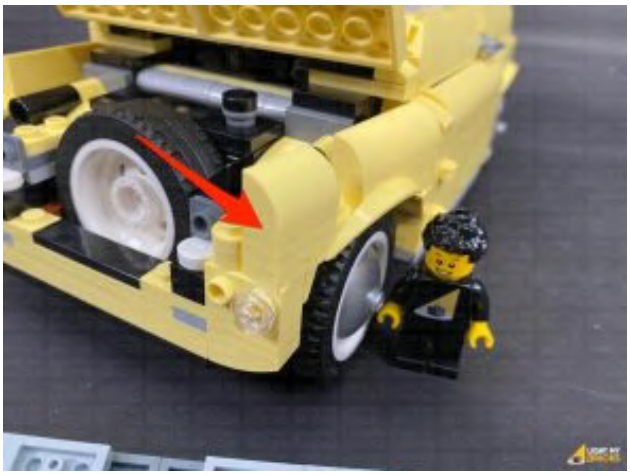


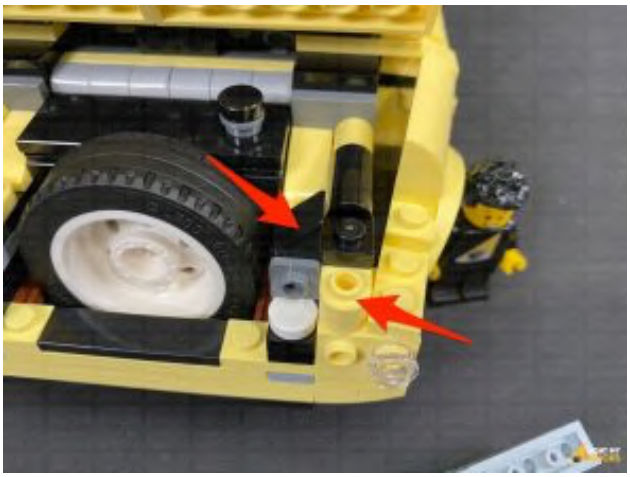

PN 10271

PN 10271

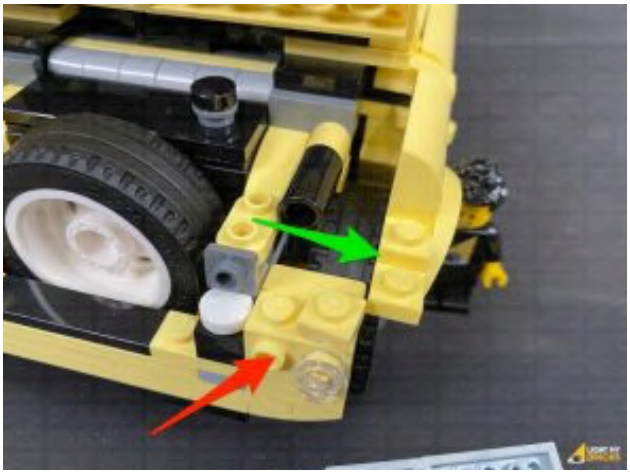


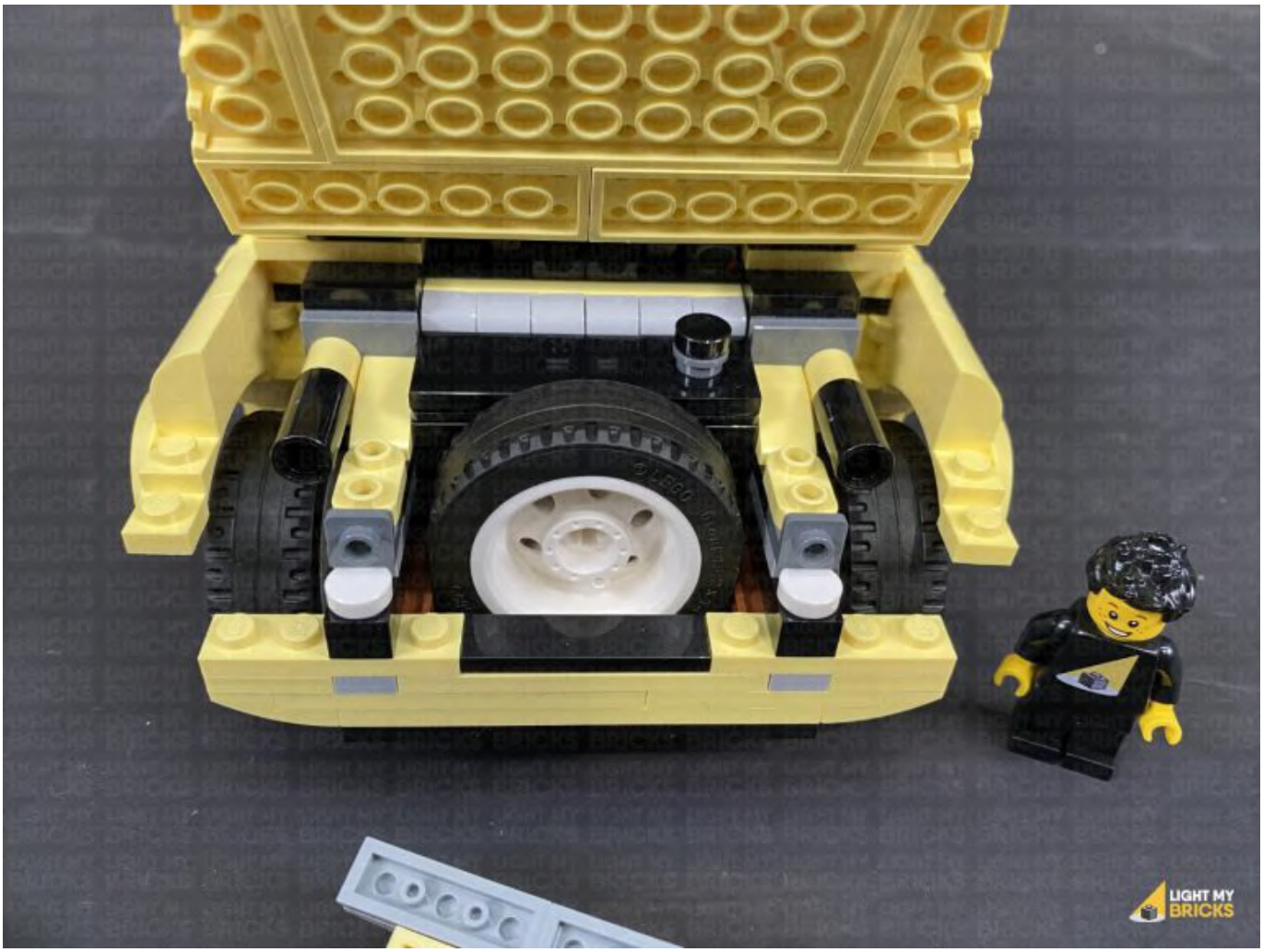







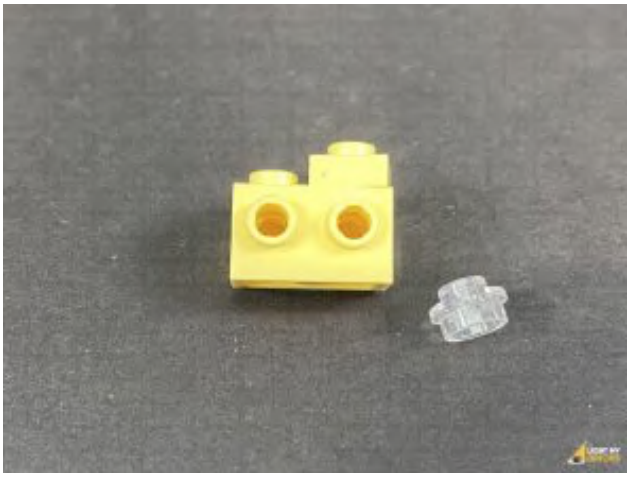
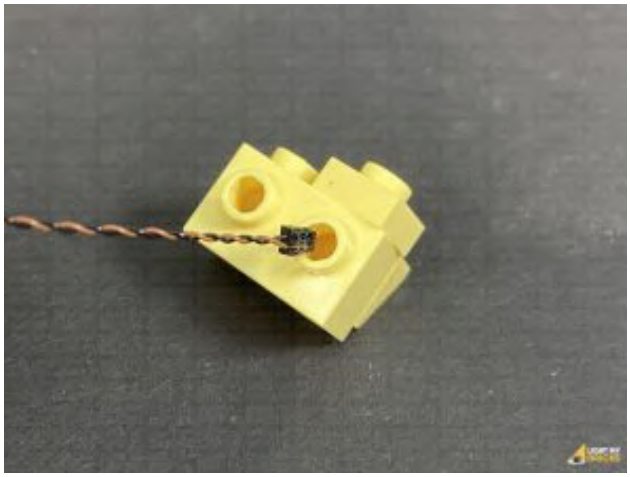
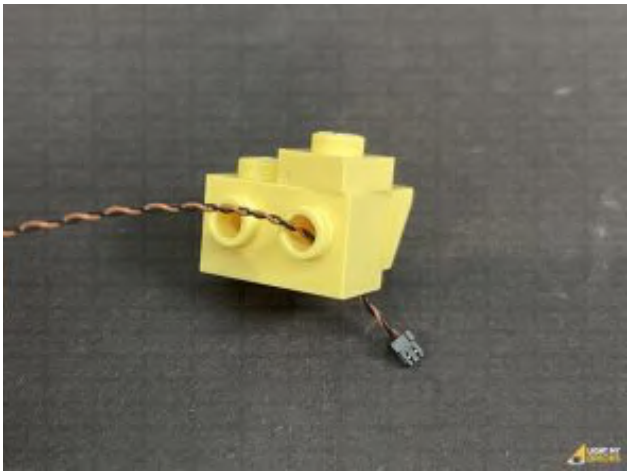
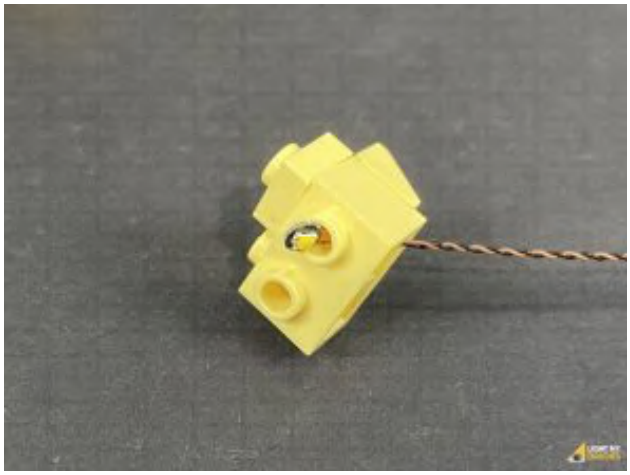


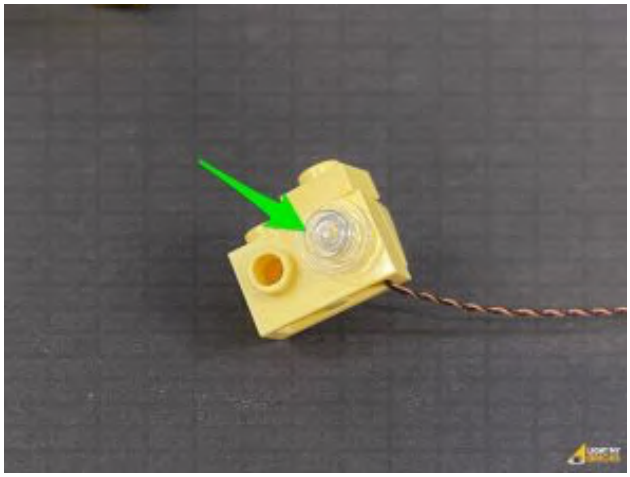




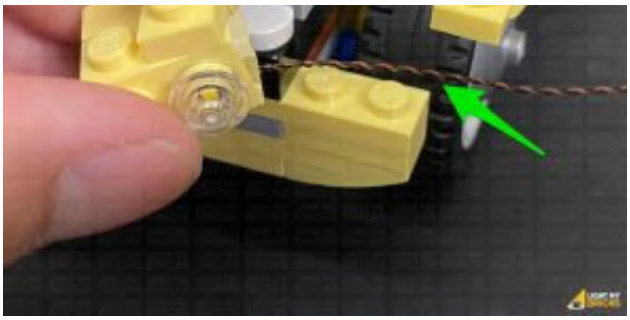
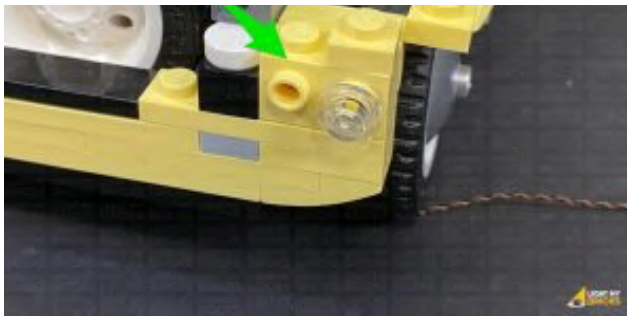


2.) Take the bottom left headlight section and disconnect the trans clear round plate. Take a **White 15cm Bit Light** and thread the connector end of the cable through the right hole and out the bottom of the yellow brick. Thread the cable all the way through, then carefully bend the Bit Light so that it sits flat against the front hole. Secure the light in place by reconnecting the trans clear round plate over the top.

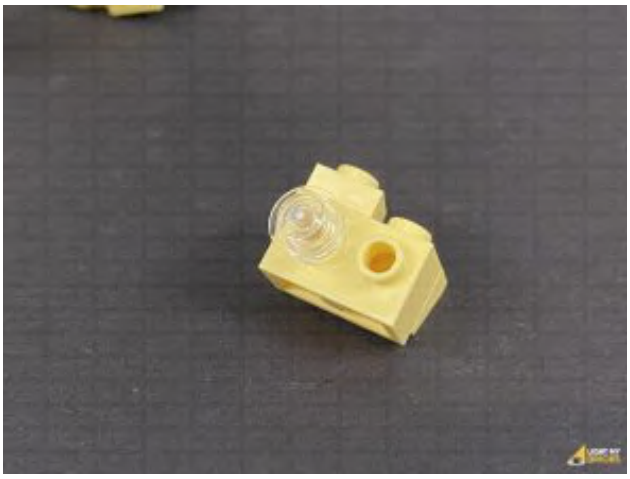
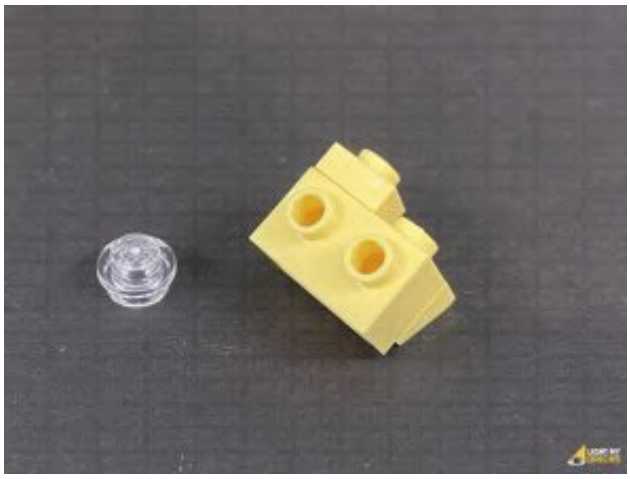
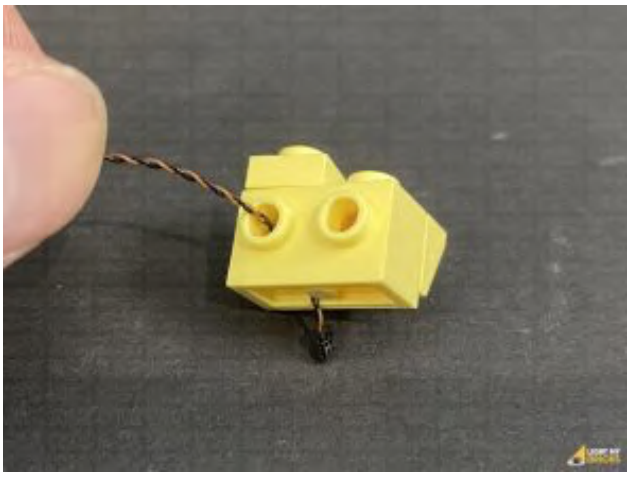
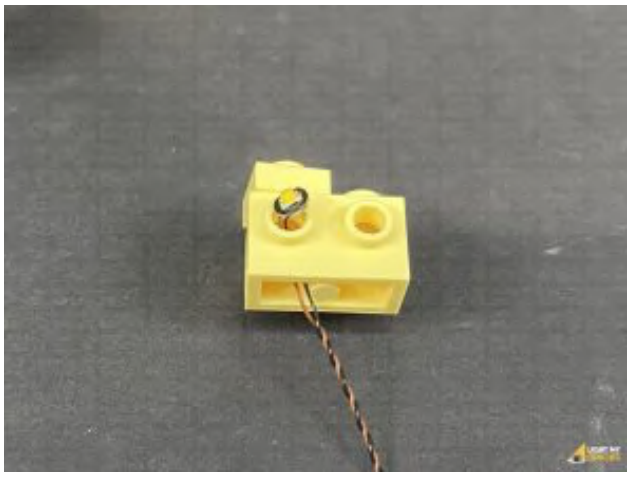
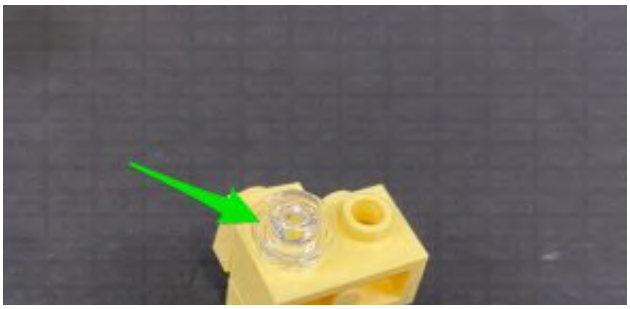
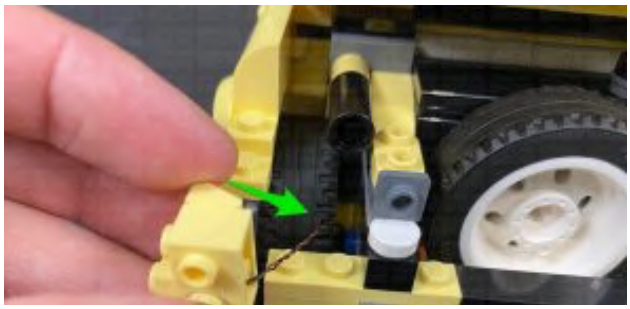





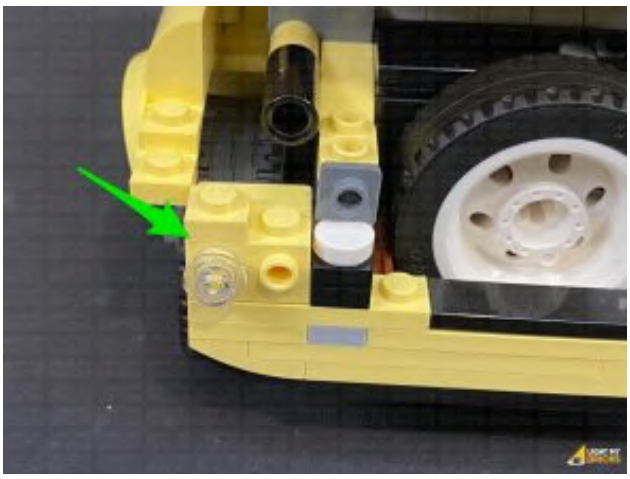


Reconnect this section back to the front left side of the car ensuring the cable is slipped inside and behind as shown below.

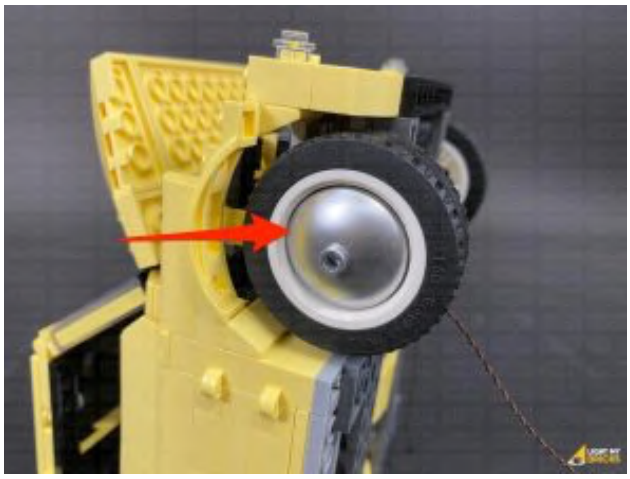
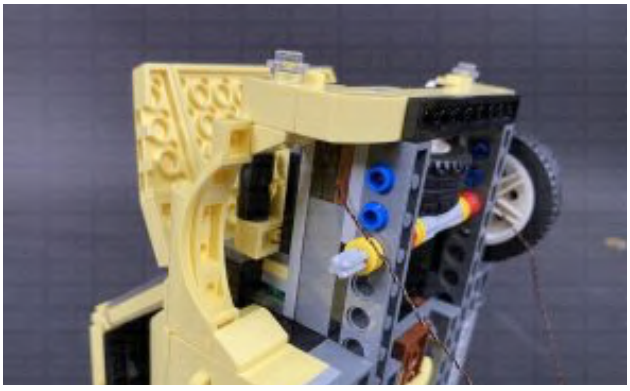
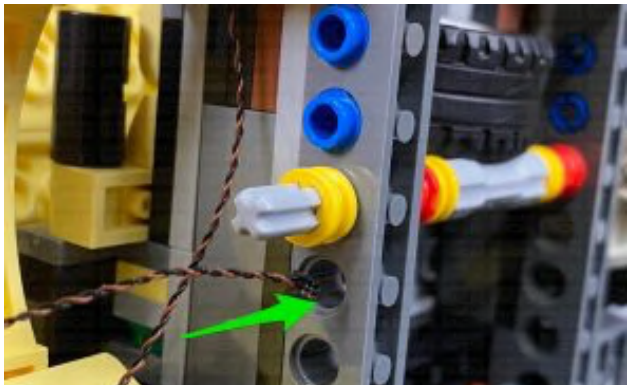



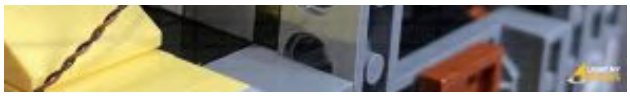
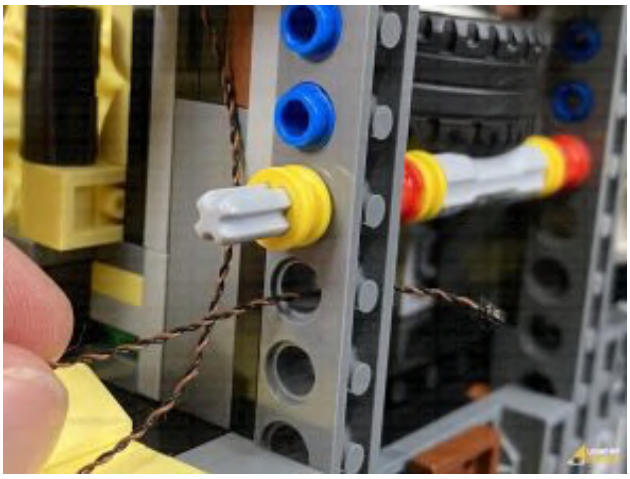
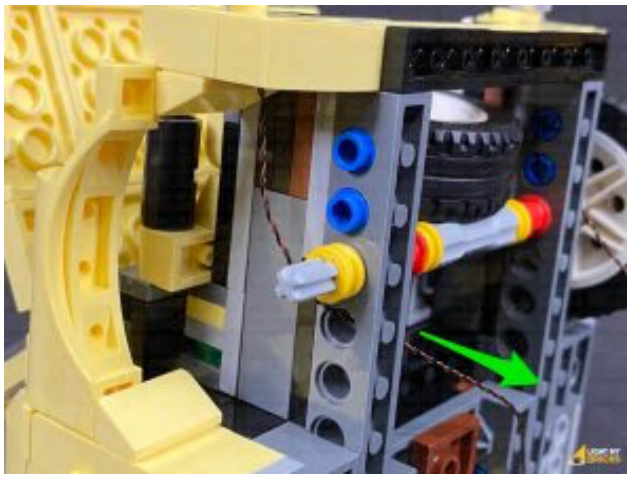
3.) Repeat the previous step to install another **White 15cm Bit Light** to the bottom right headlight, then reconnect this section to the front right side of the car.

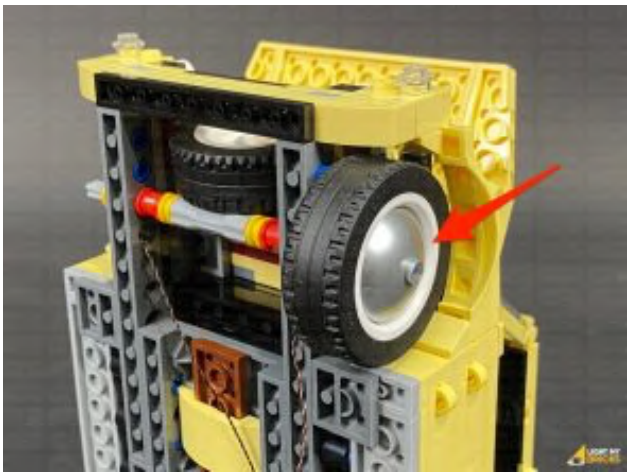
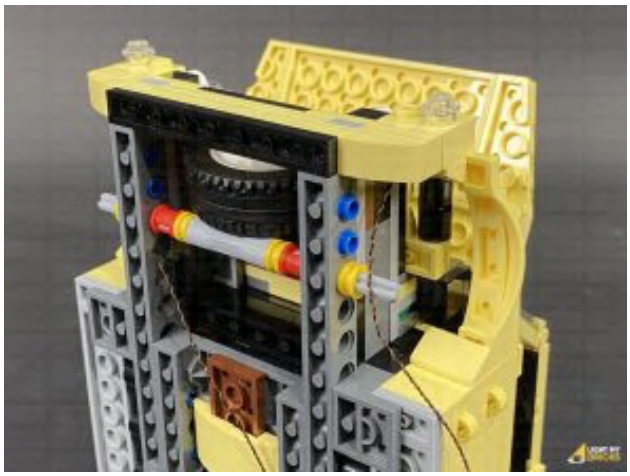
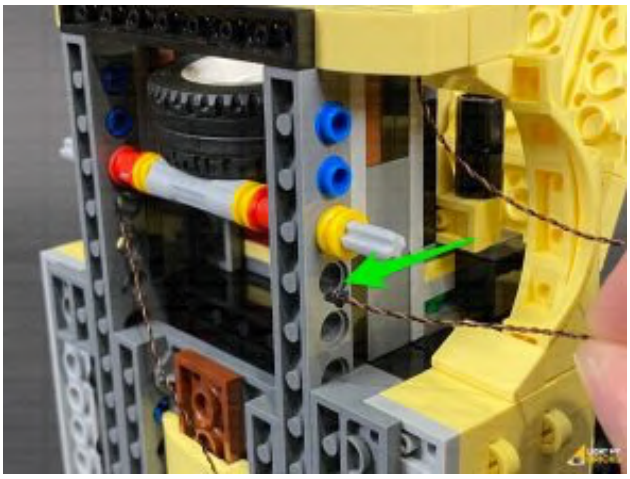
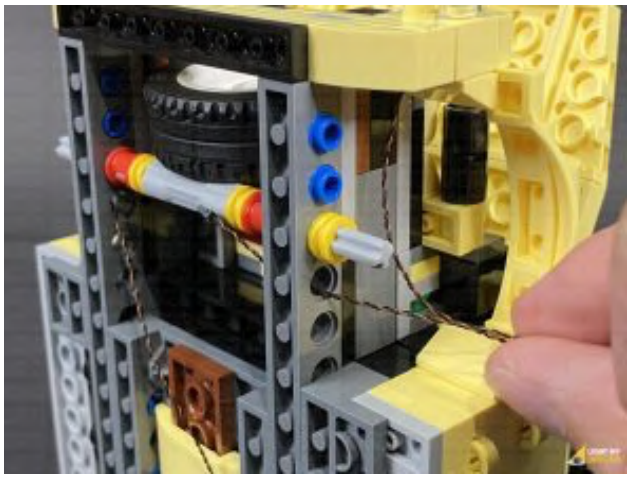


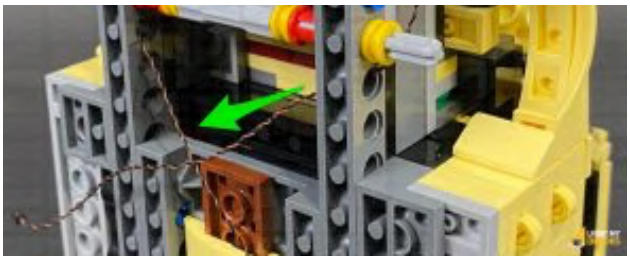
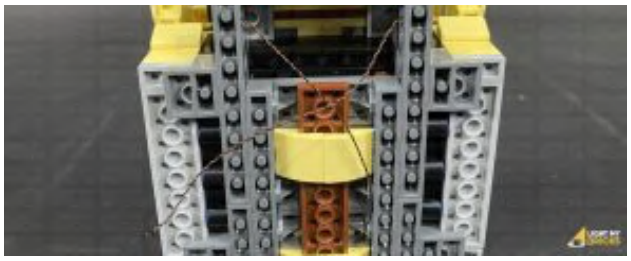
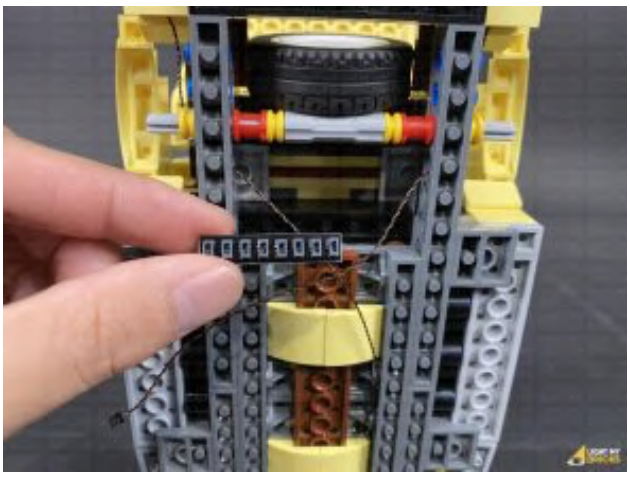
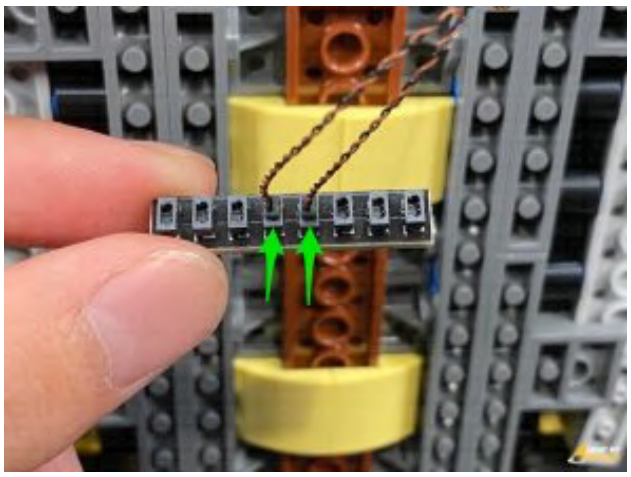
4.) Place the car on it's back, then disconnect the front right wheel. Take the Bit Light cable on this side and thread it through the following hole in the dark grey technic brick. Pull the cable out all the way out from the other side of the brick.

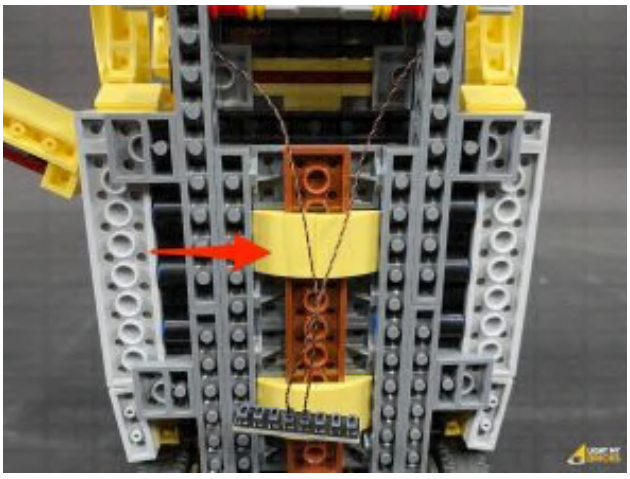
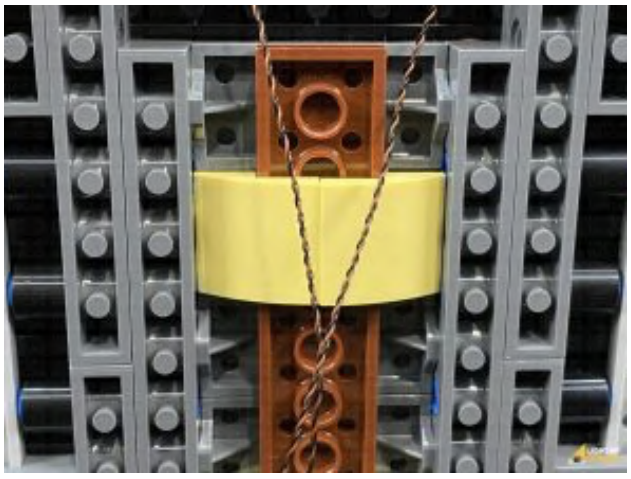
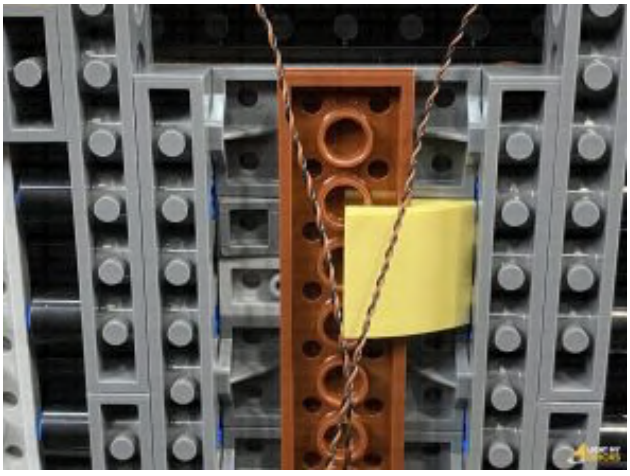




Repeat this step for the left side, then connect both Bit Light cables to the middle ports on the **8-Port Expansion Board**.

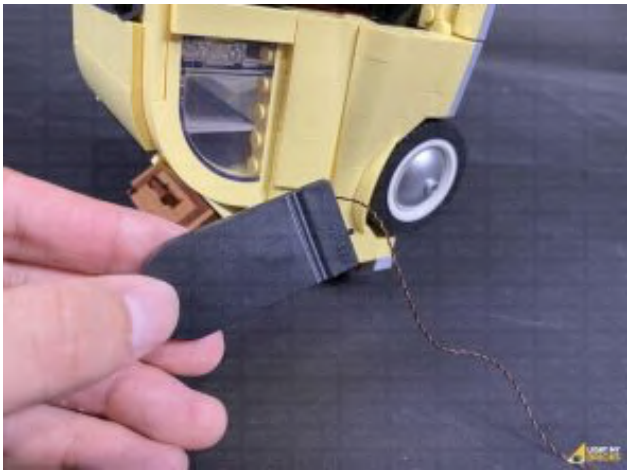





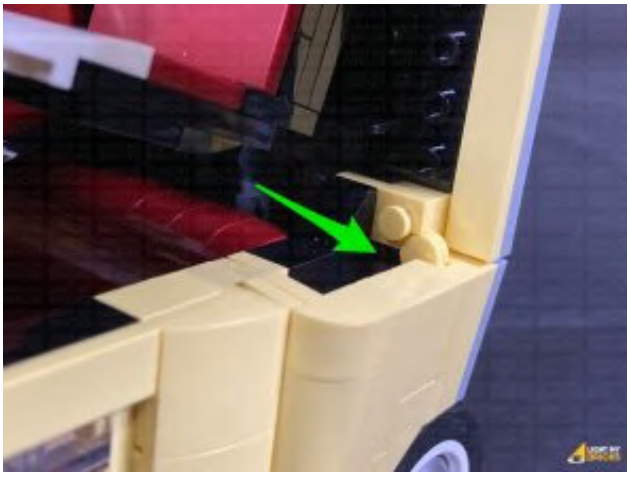
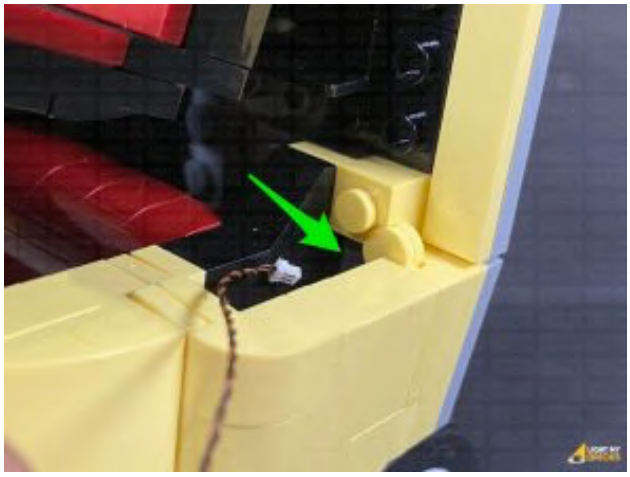
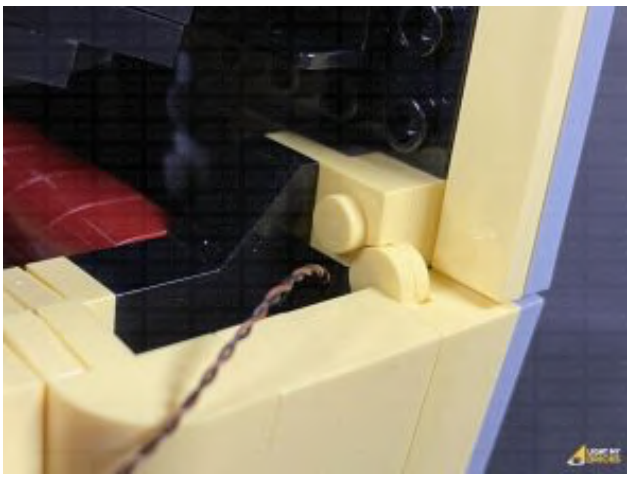
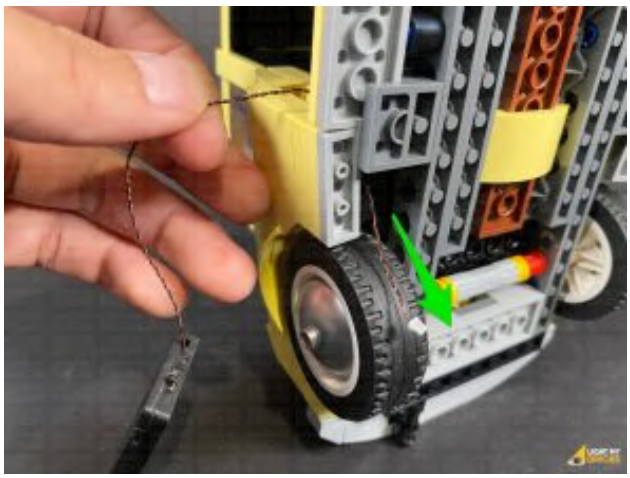





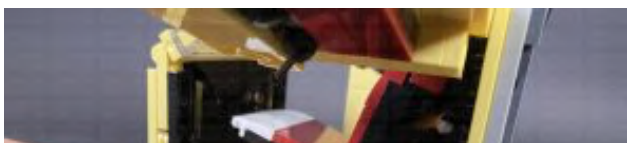
Disconnect the following angled yellow tile.

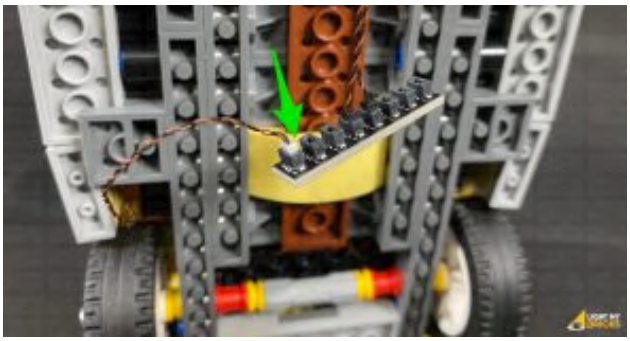




5.) Take the **Flat Battery Pack** and insert 2x new CR2032 Batteries to it. Thread the battery pack cable through the following space behind the front passenger seat that leads underneath the vehicle. Pull the cable all the way out, then connect the cable to the far left port on the 8-Port Expansion board. Place the Battery Pack behind the front seats.

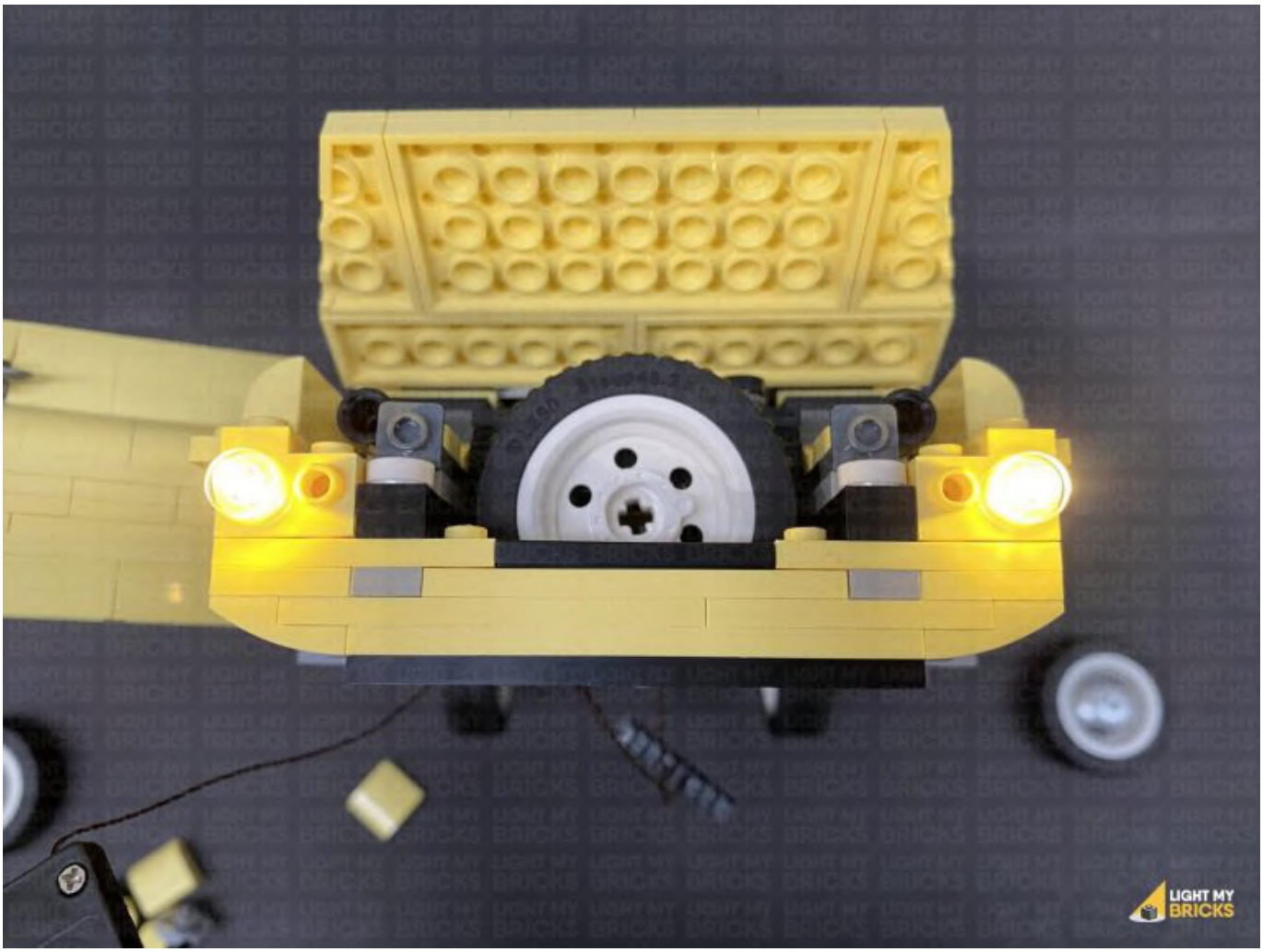




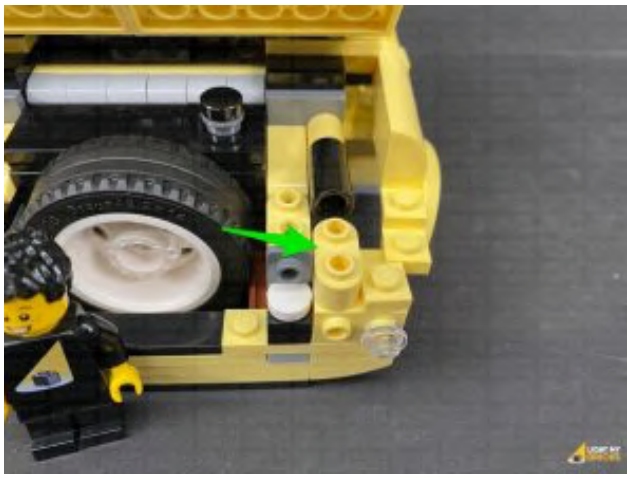


Turn the battery pack ON to test the front headlights are working OK.

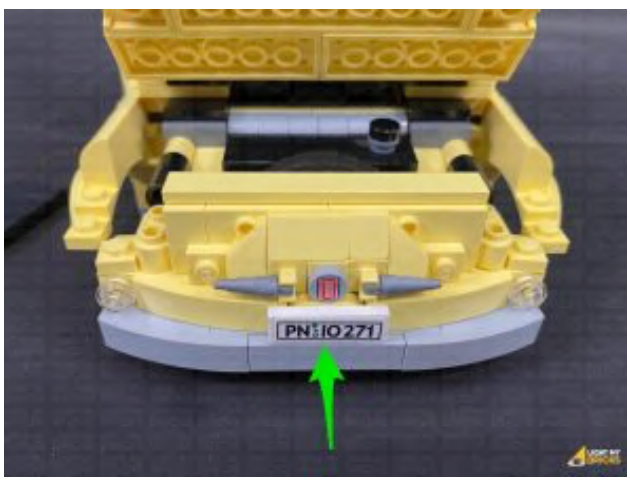


Note: If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing expansion board issues on our ***online troubleshooting guide.***

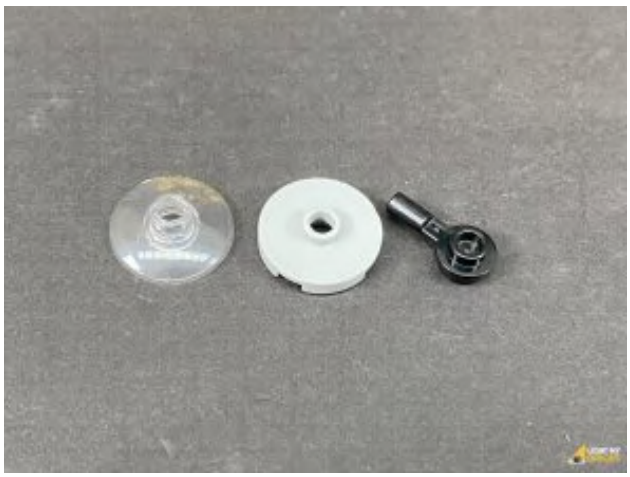
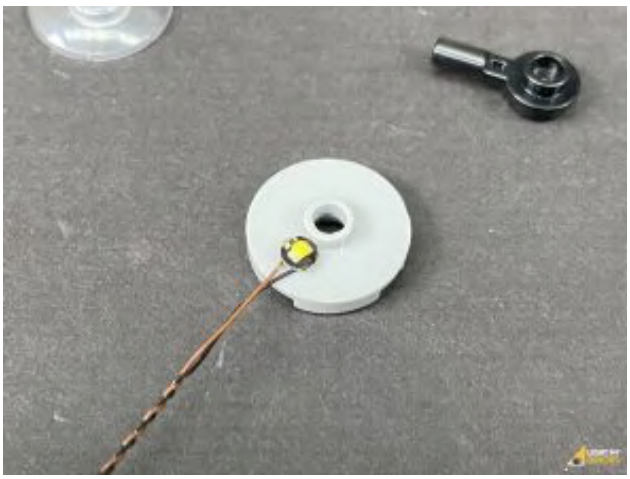
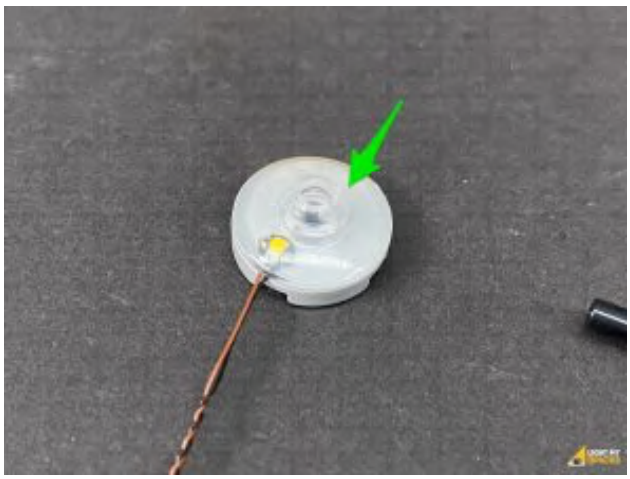
6.) Take the following two sections we disconnected earlier and disassemble them, then reconnect the bottom yellow plate to each side of the vehicle.

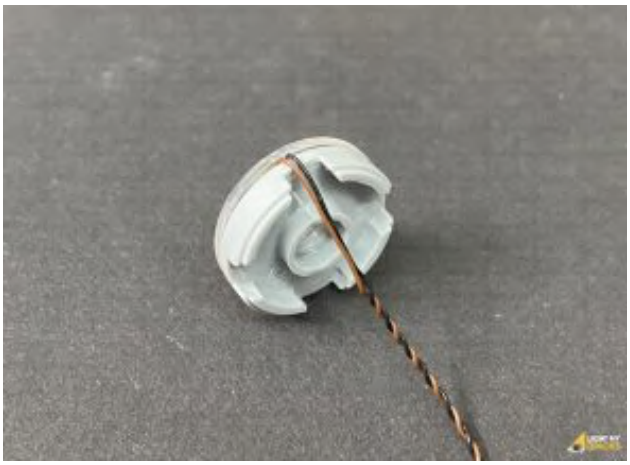


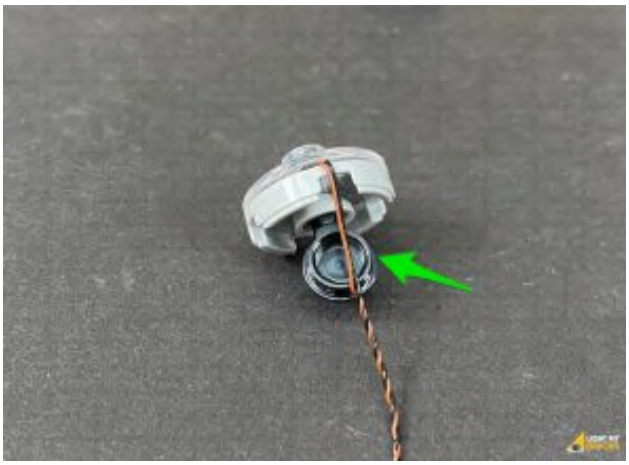
Reconnect the front panel section

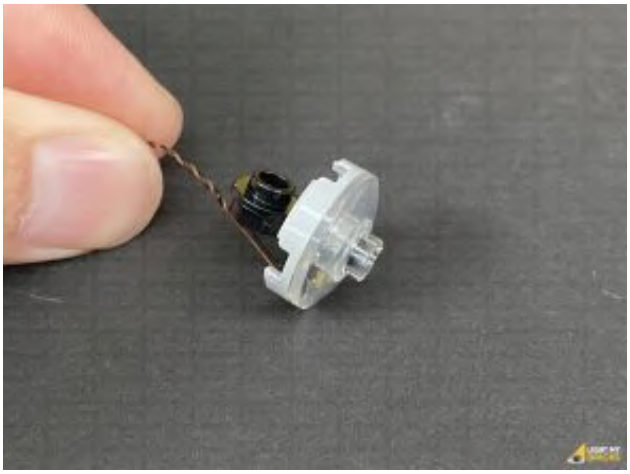


7.) Disassemble the two headlight sections as shown below, then take a **White 15cm Bit Light** and place it in the following position over one of the light grey plates. Secure the Bit Light in place by reconnecting the trans clear dish over the top. Fold the cable down underneath ensuring it is laid in between the gap, then reinsert the black bar.

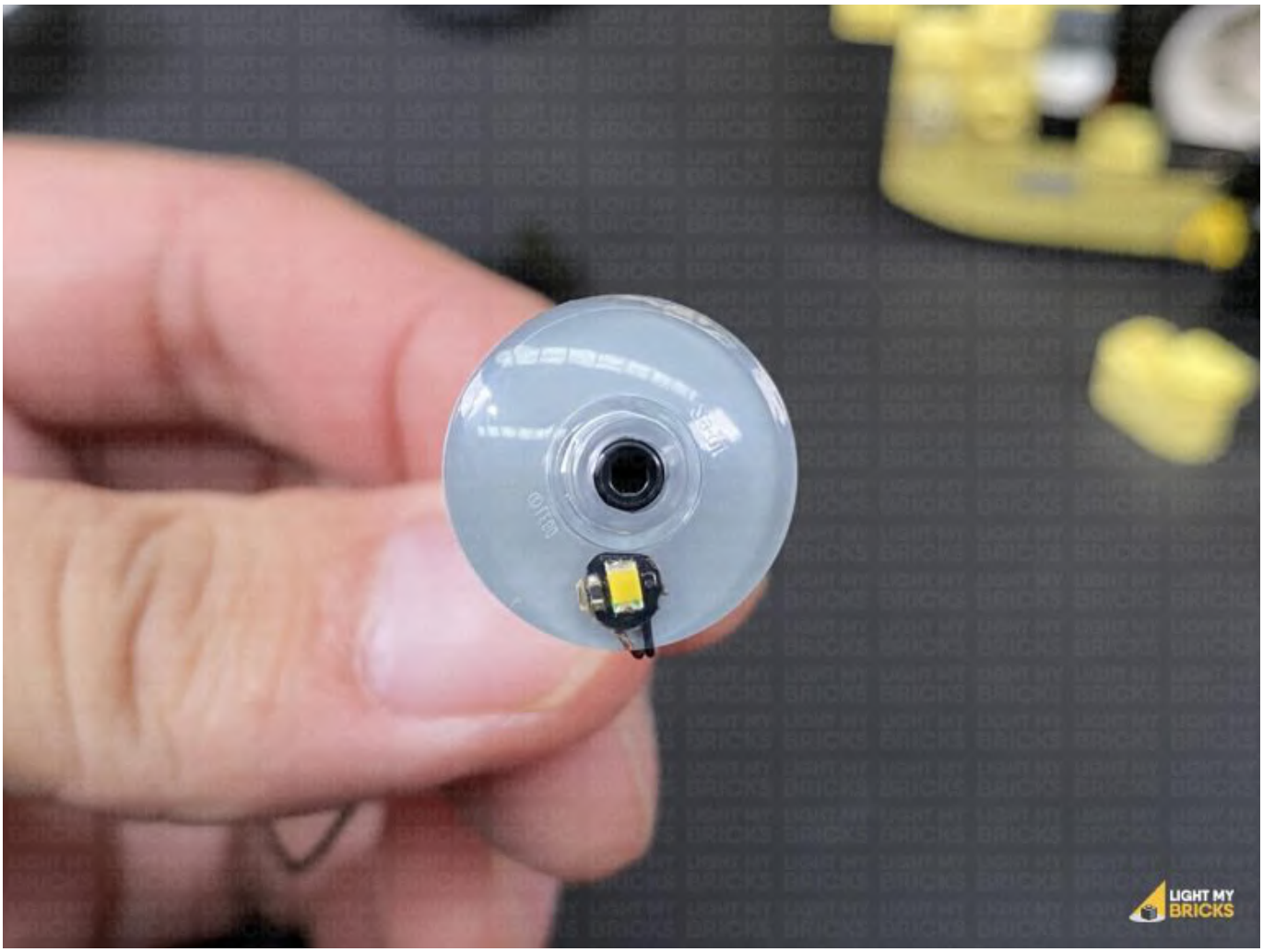






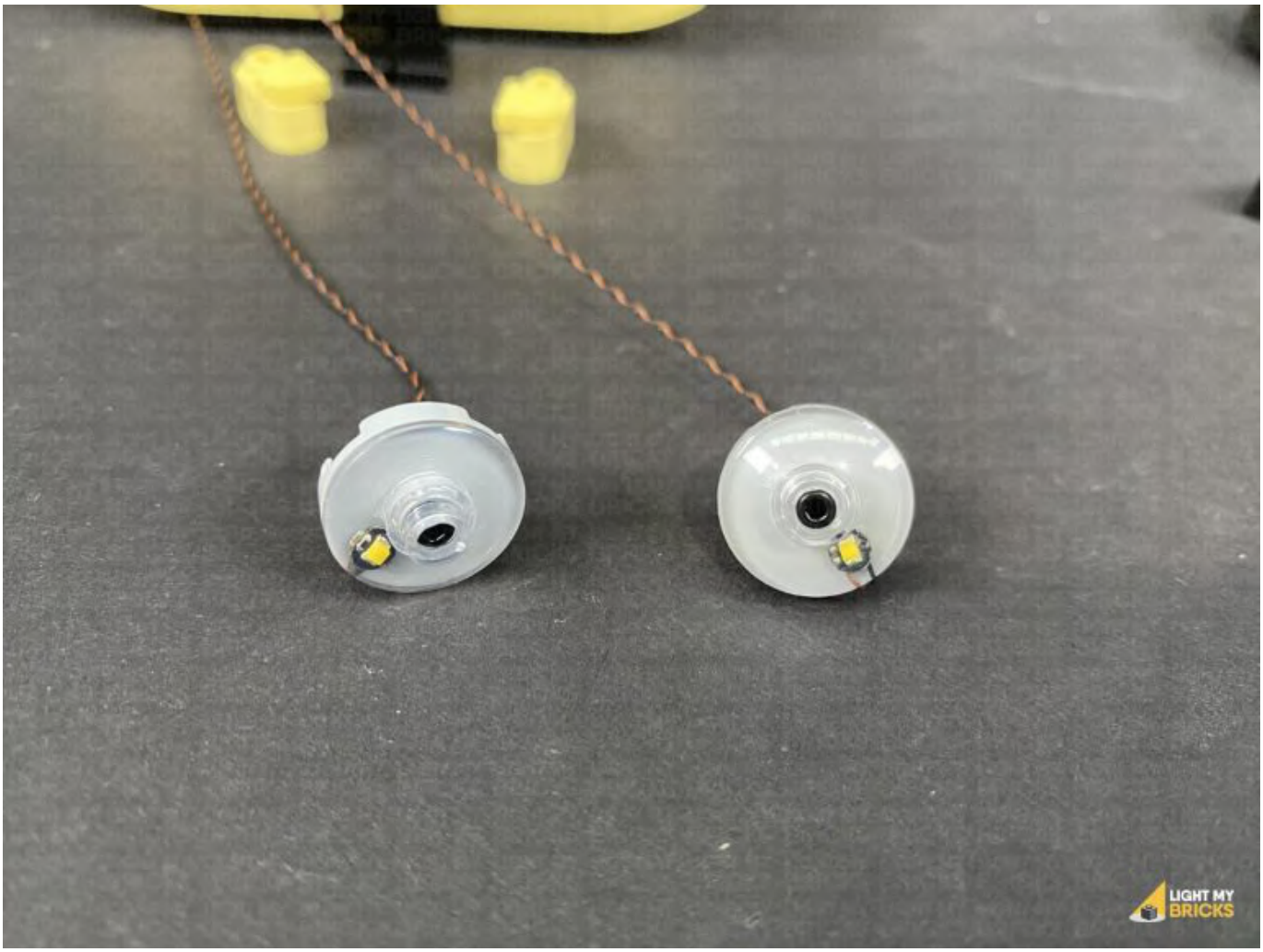




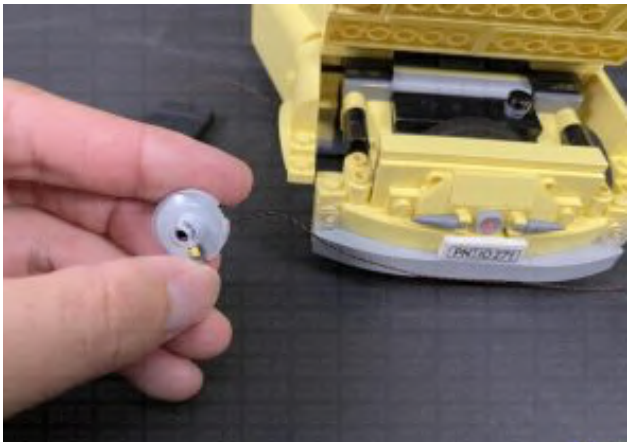
The Bit Light should be positioned underneath the centre of the headlight and the cable should be facing the bottom as per below image.

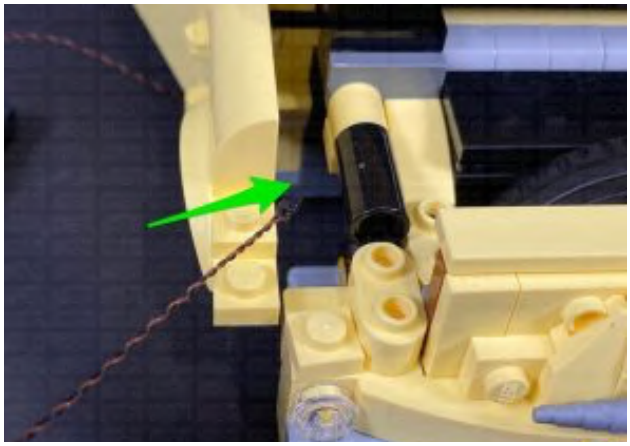


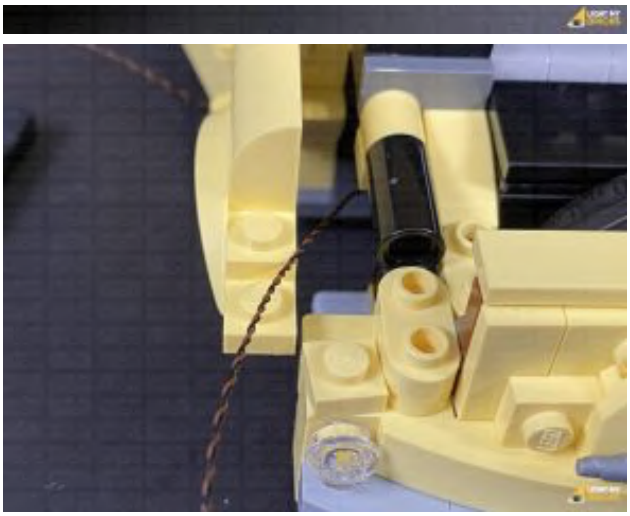
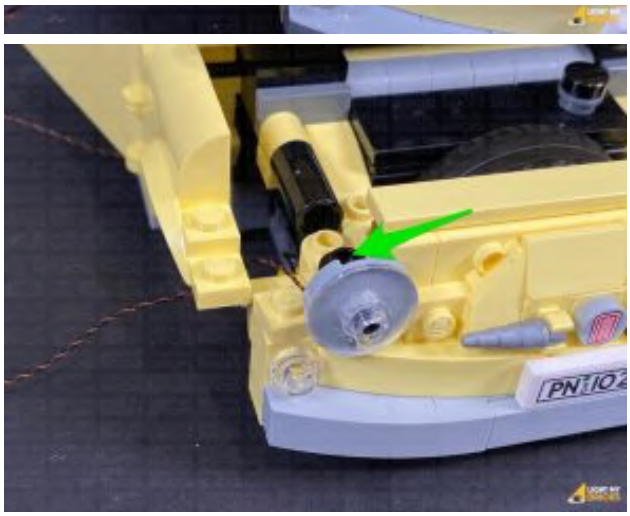
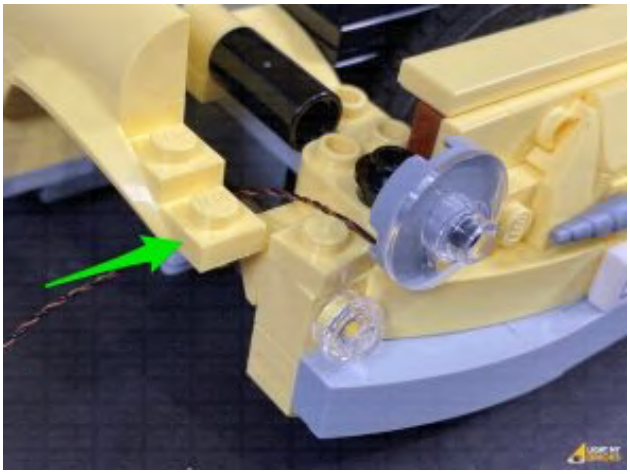
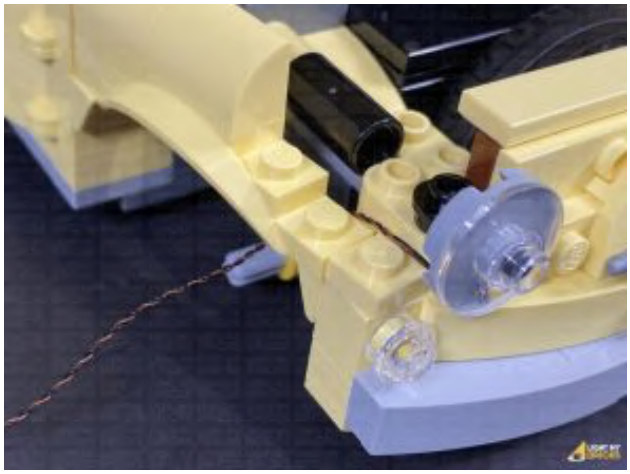
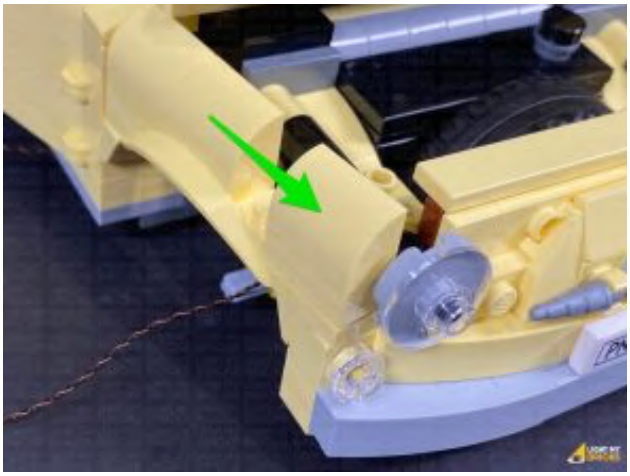
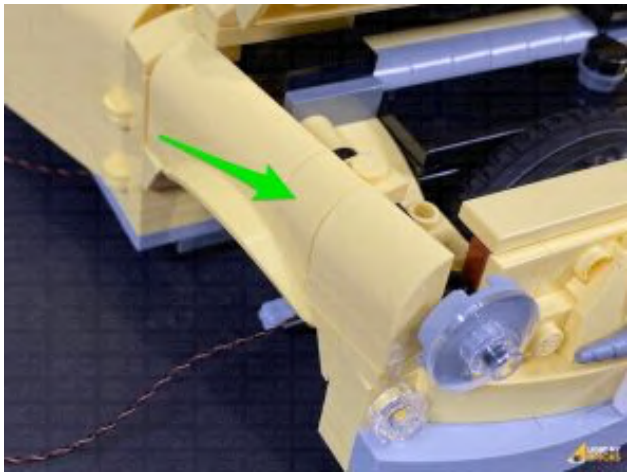
Repeat this step to install another **White 15cm Bit Light** to the other headlight section



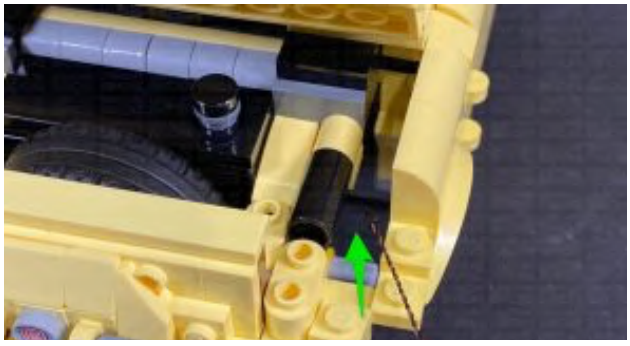
8.) Take the right headlight section and thread the cable behind before reconnecting it to the vehicle. Ensure the cable is laid in between studs on the left of it, then push in the exterior panel. Reconnect the two pieces as shown below.

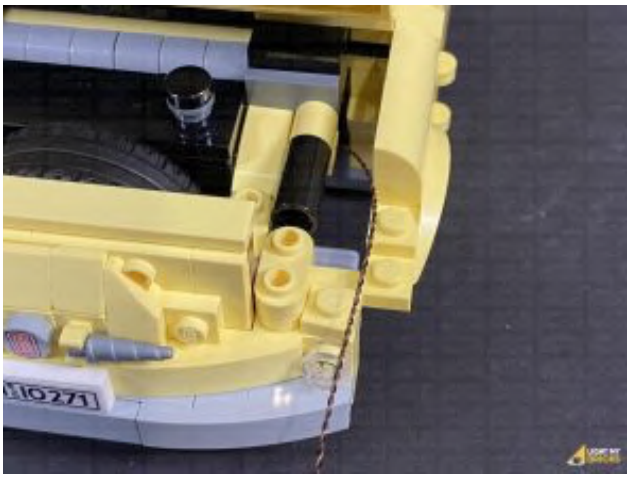
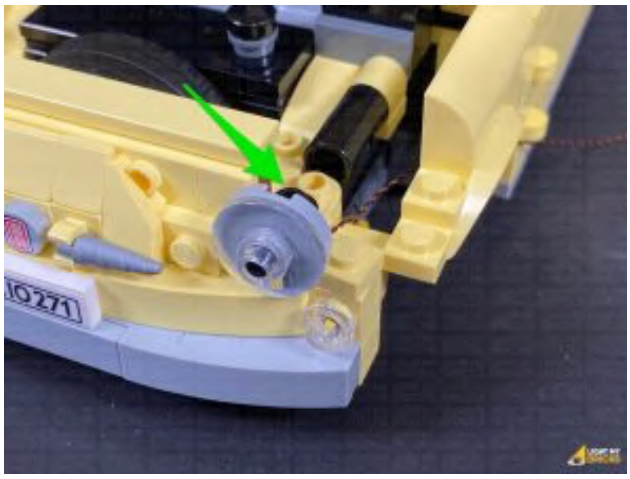
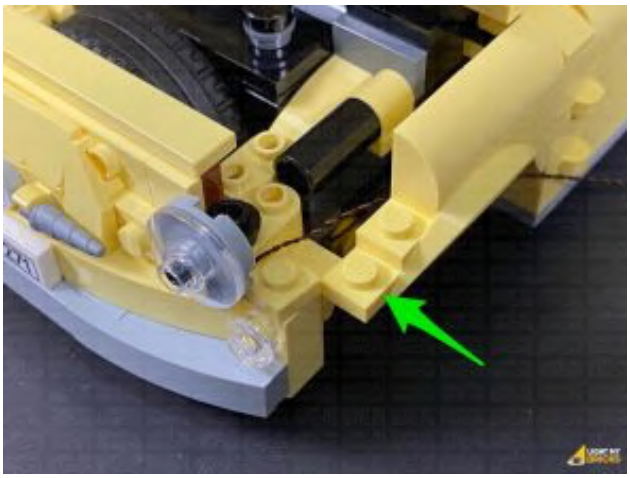
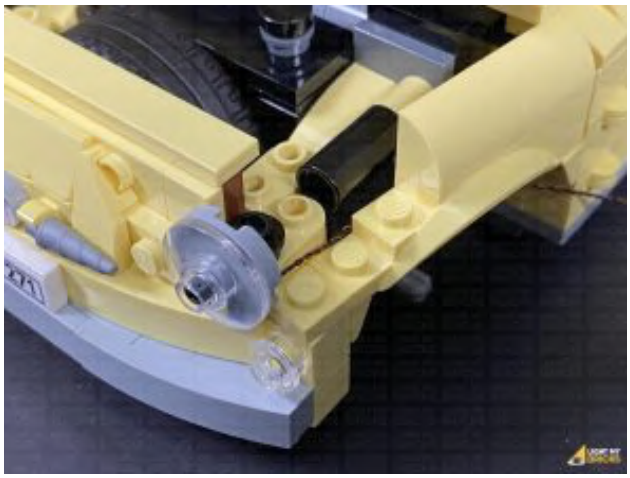
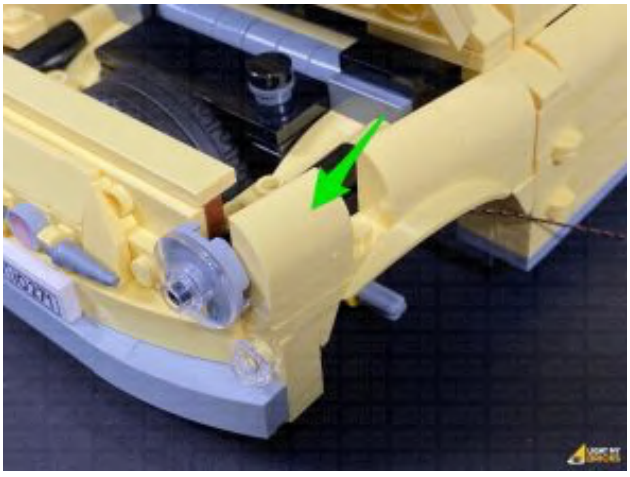
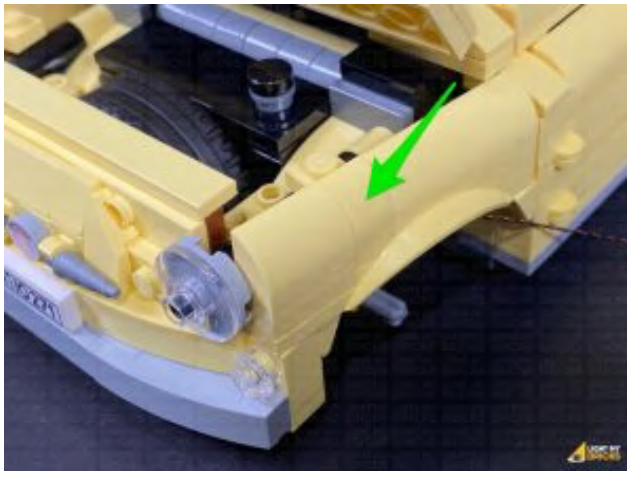




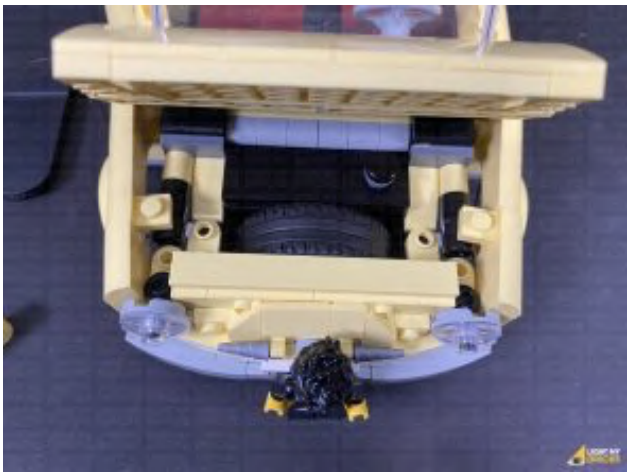







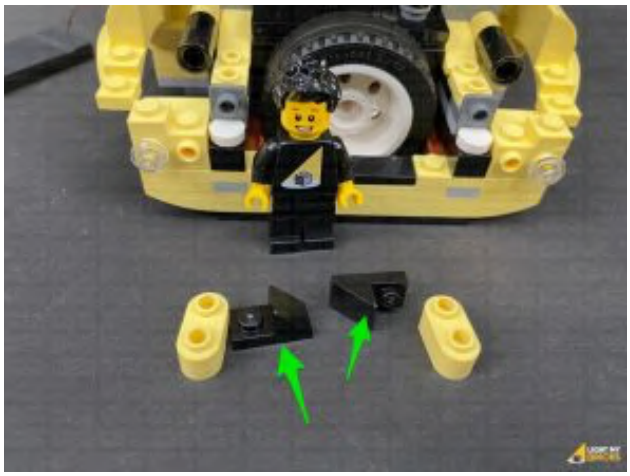
Repeat this step for the left headlight on the other side.

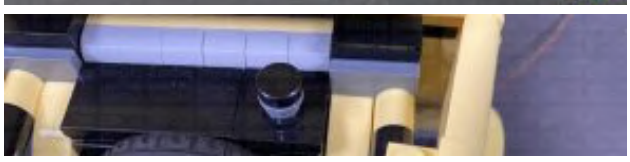


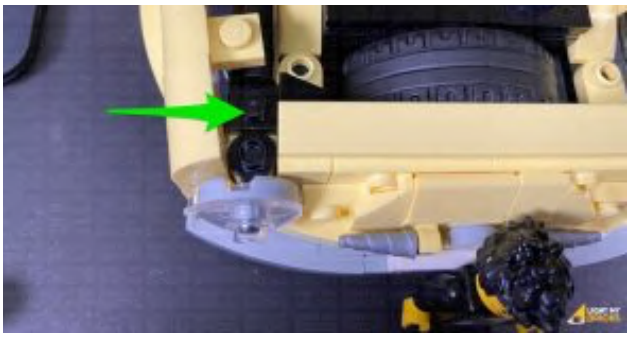
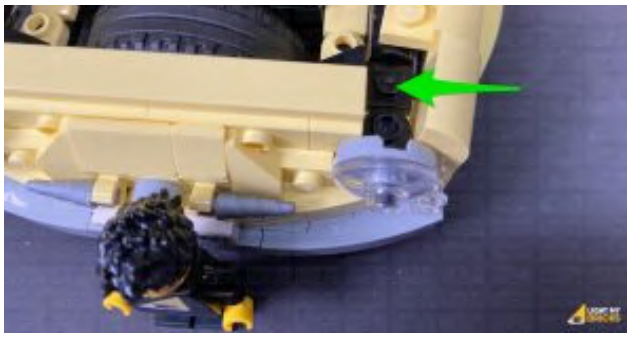
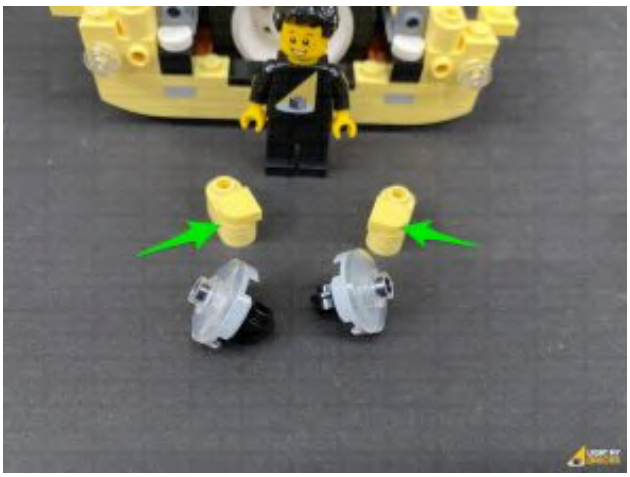
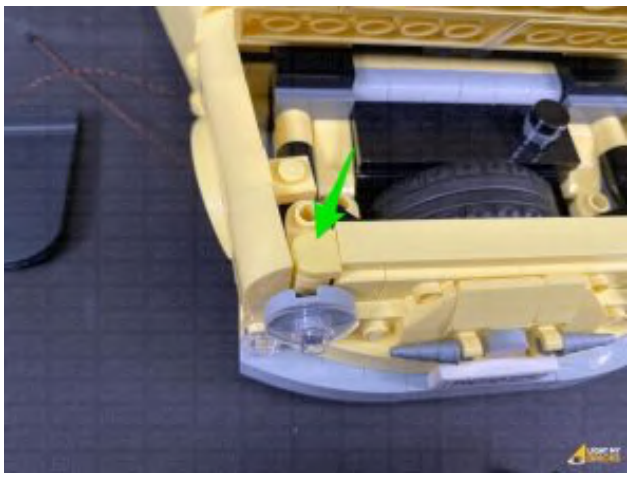
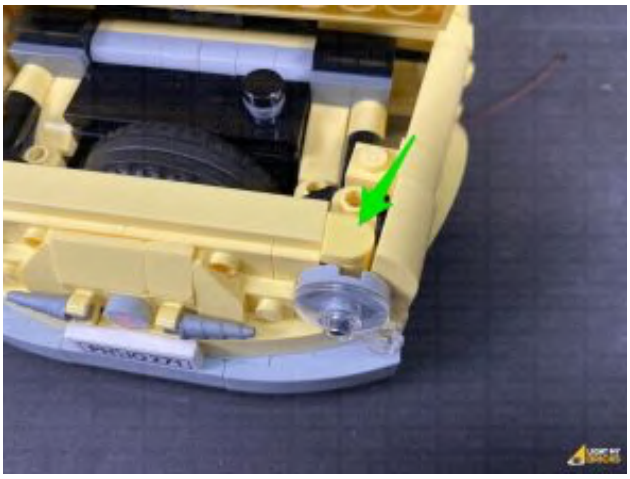







9.) Reconnect the following remaining pieces to the front of the car.

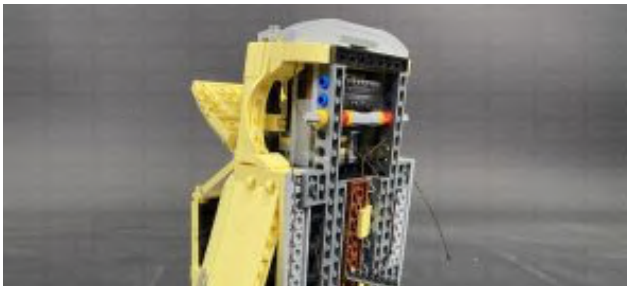


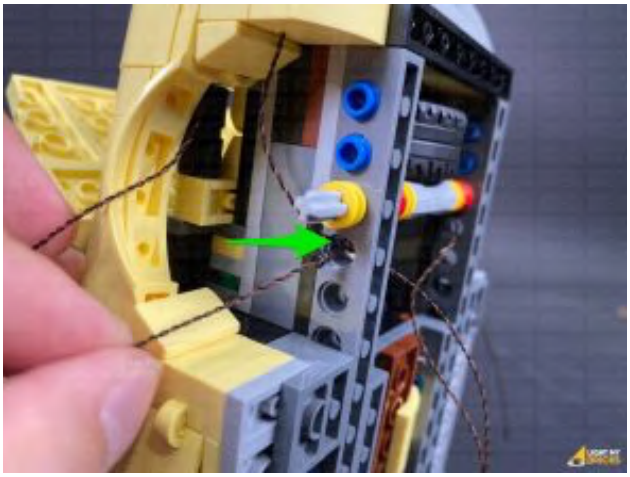


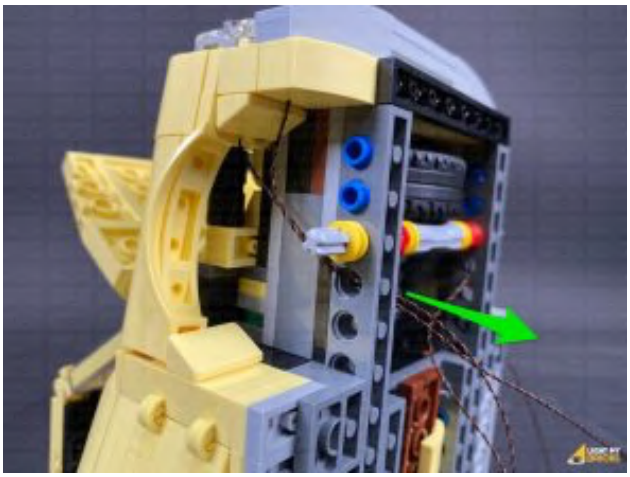
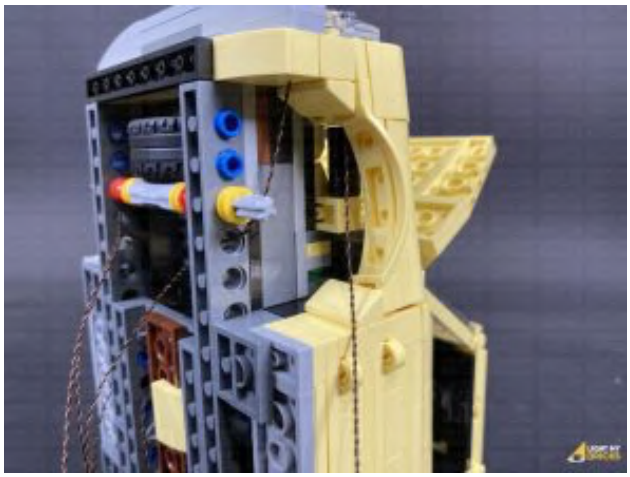
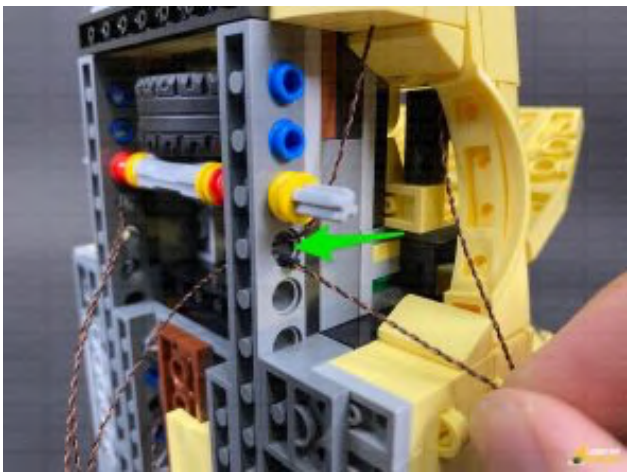
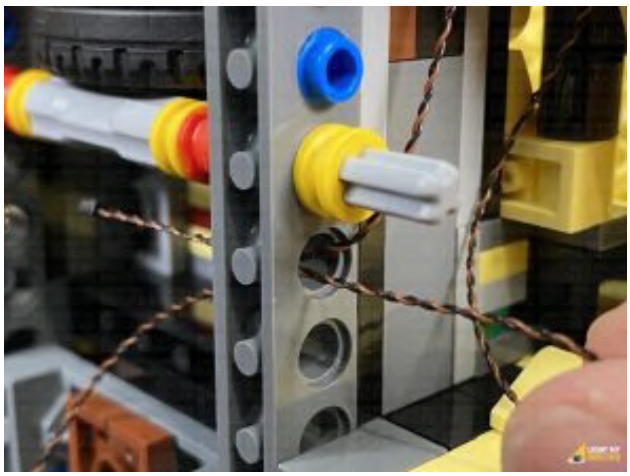
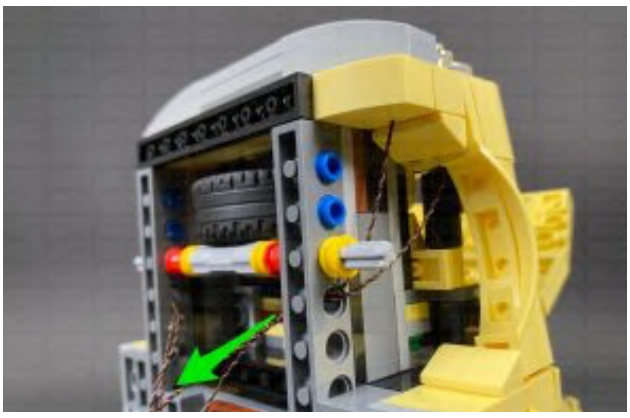
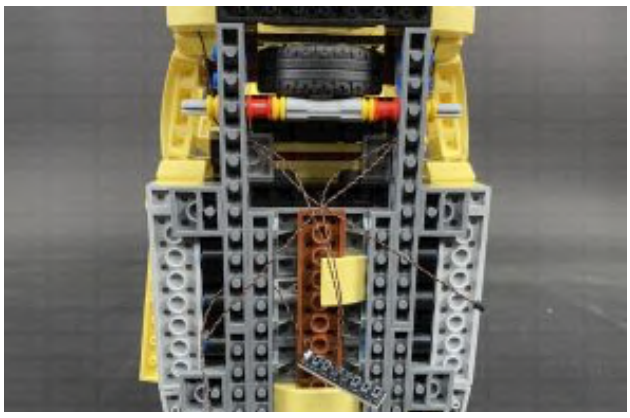


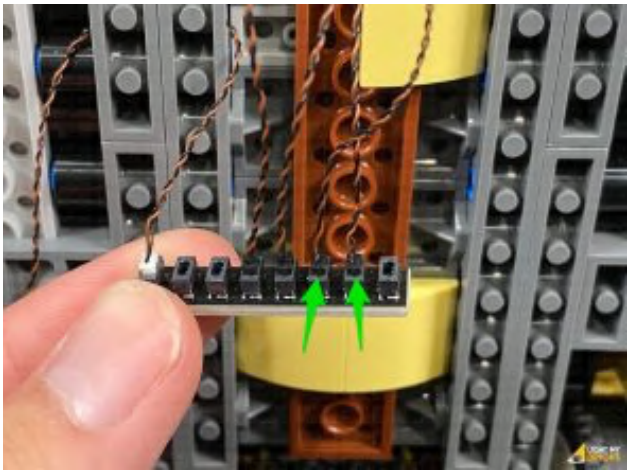






10.) Thread the cables from both headlights through the same holes we threaded the bottom headlight cables through (behind the front wheels). Connect both cables to the next available ports on the 8-Port Expansion Board.

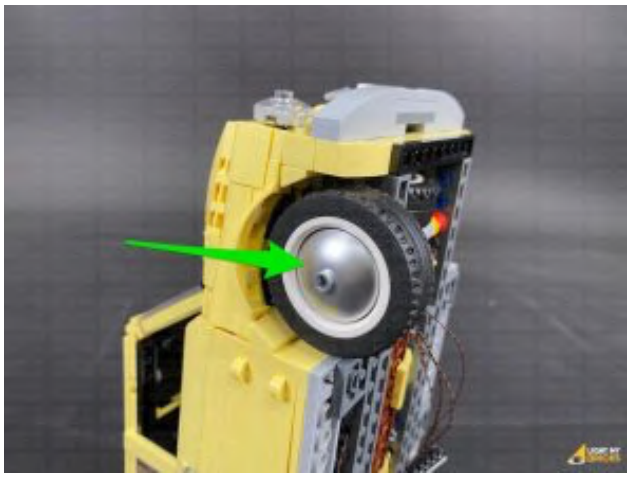
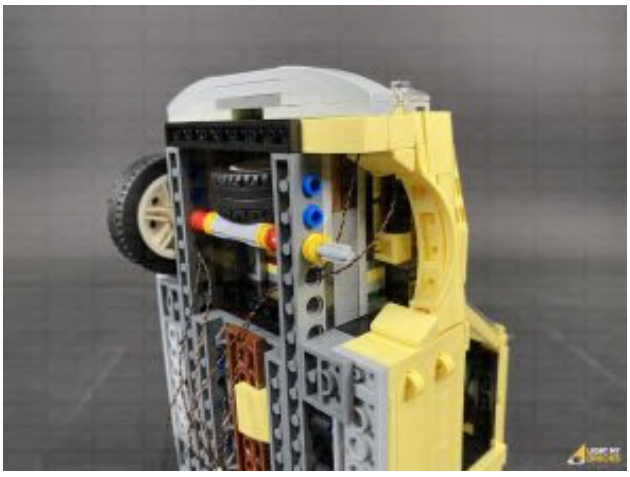
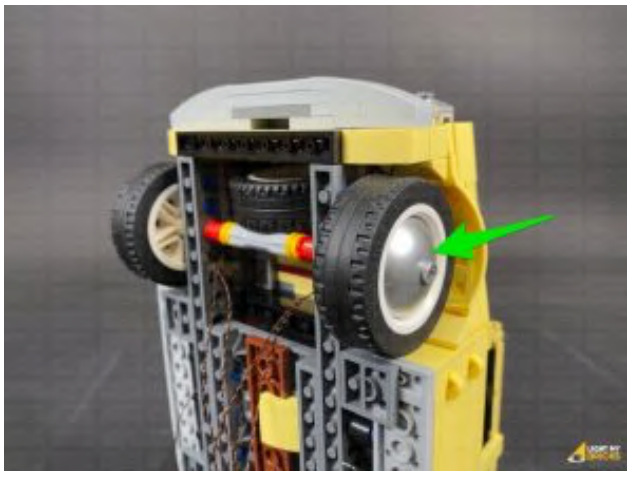




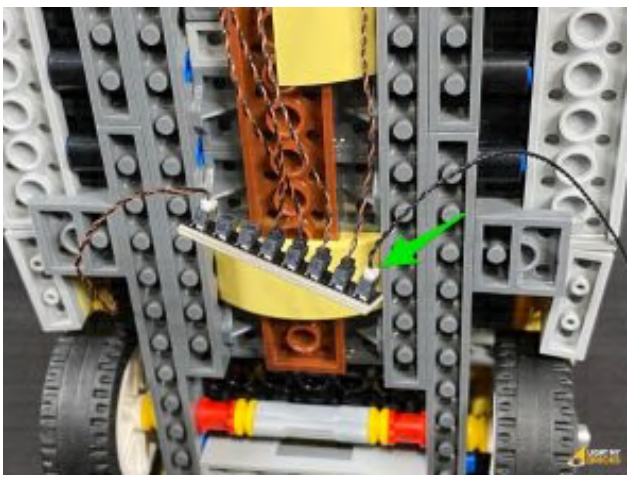


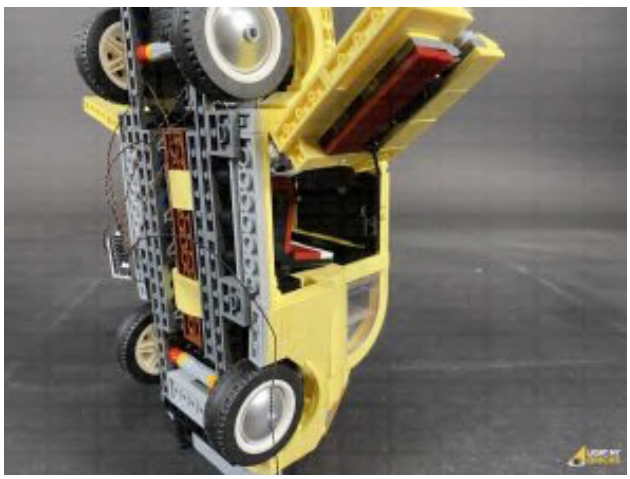
Reconnect both wheels, then turn ON the Battery Pack to test the headlights are working OK.

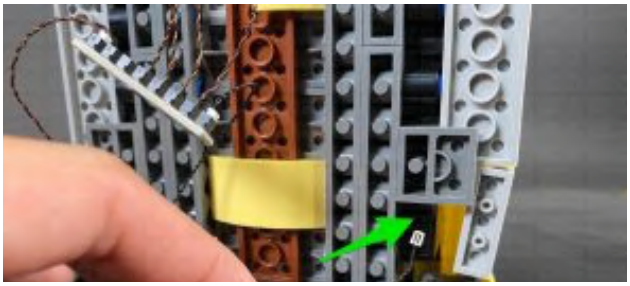




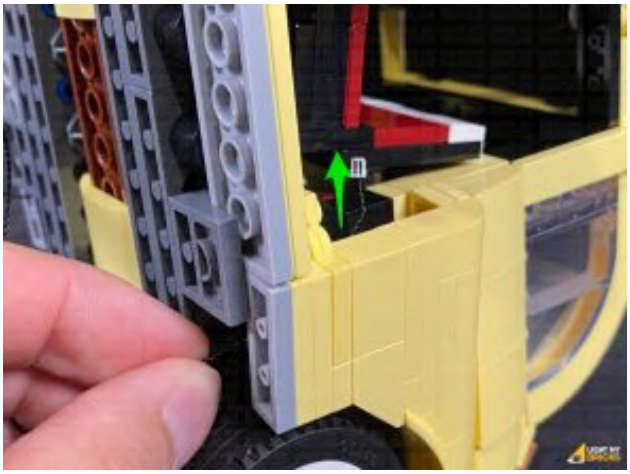
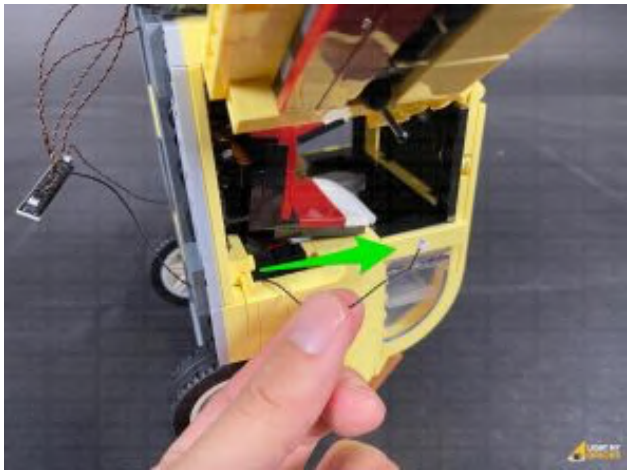
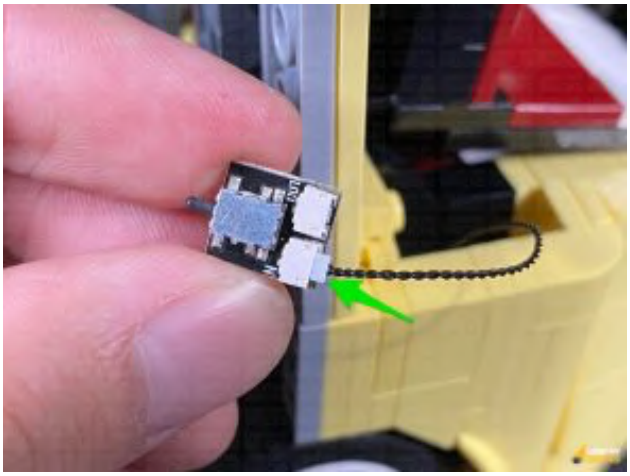
Note: If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing expansion board issues on our ***online troubleshooting guide.***

11.) Take a **15cm Connecting Cable** and connect it to the right port on the 8-Port Expansion Board. Bring the cable toward the right side and thread it through the following space underneath the vehicle which leads to the area behind the driver seat. Pull the cable all the way out, then connect it to the **IN** port on the **NC Push Board.**

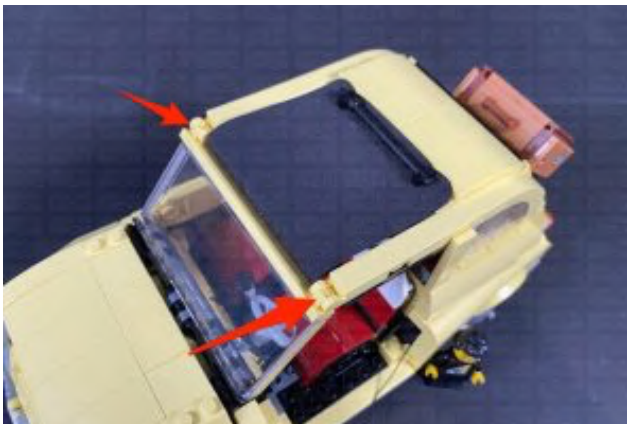


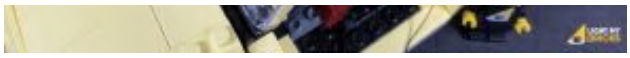


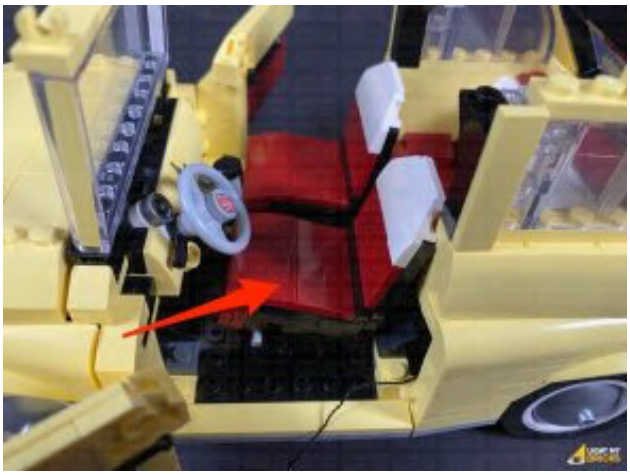
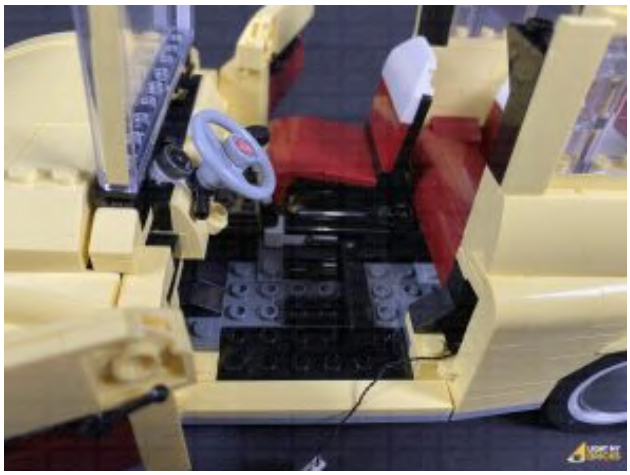
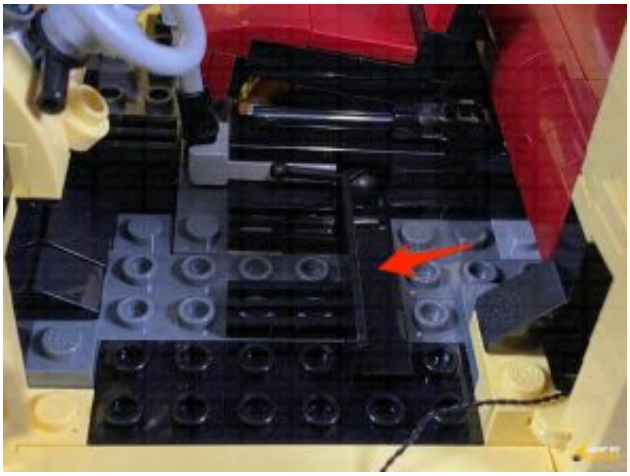
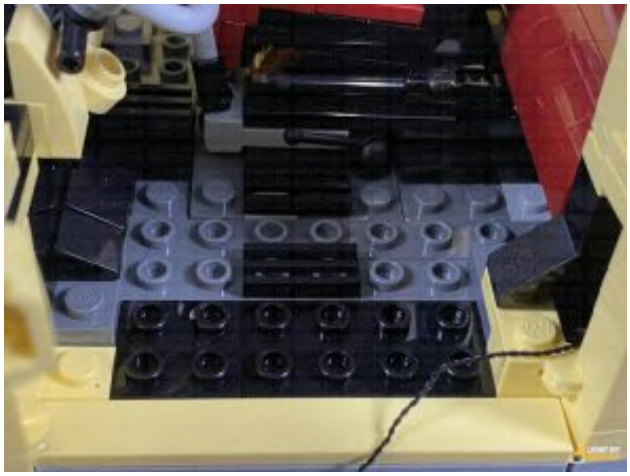


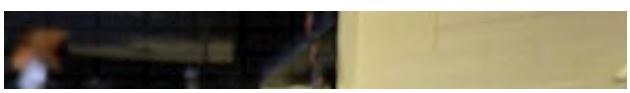
12.) Remove the roof of the car by disconnecting the front of it via the clips, then disconnecting the back of it as shown below. Remove the driver seat as well as the following pieces underneath.

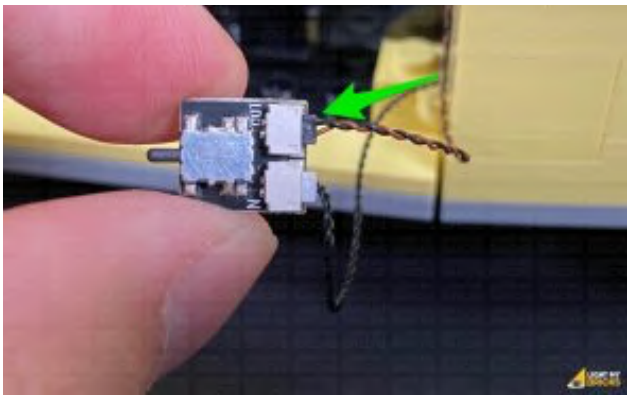


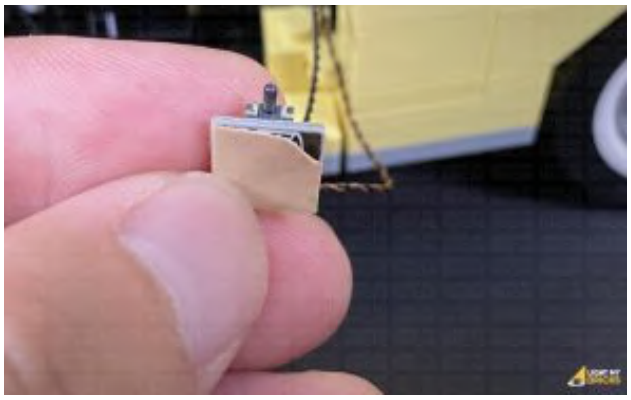


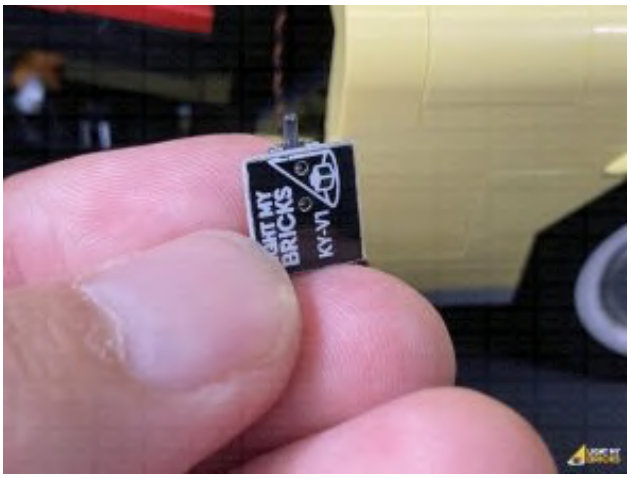





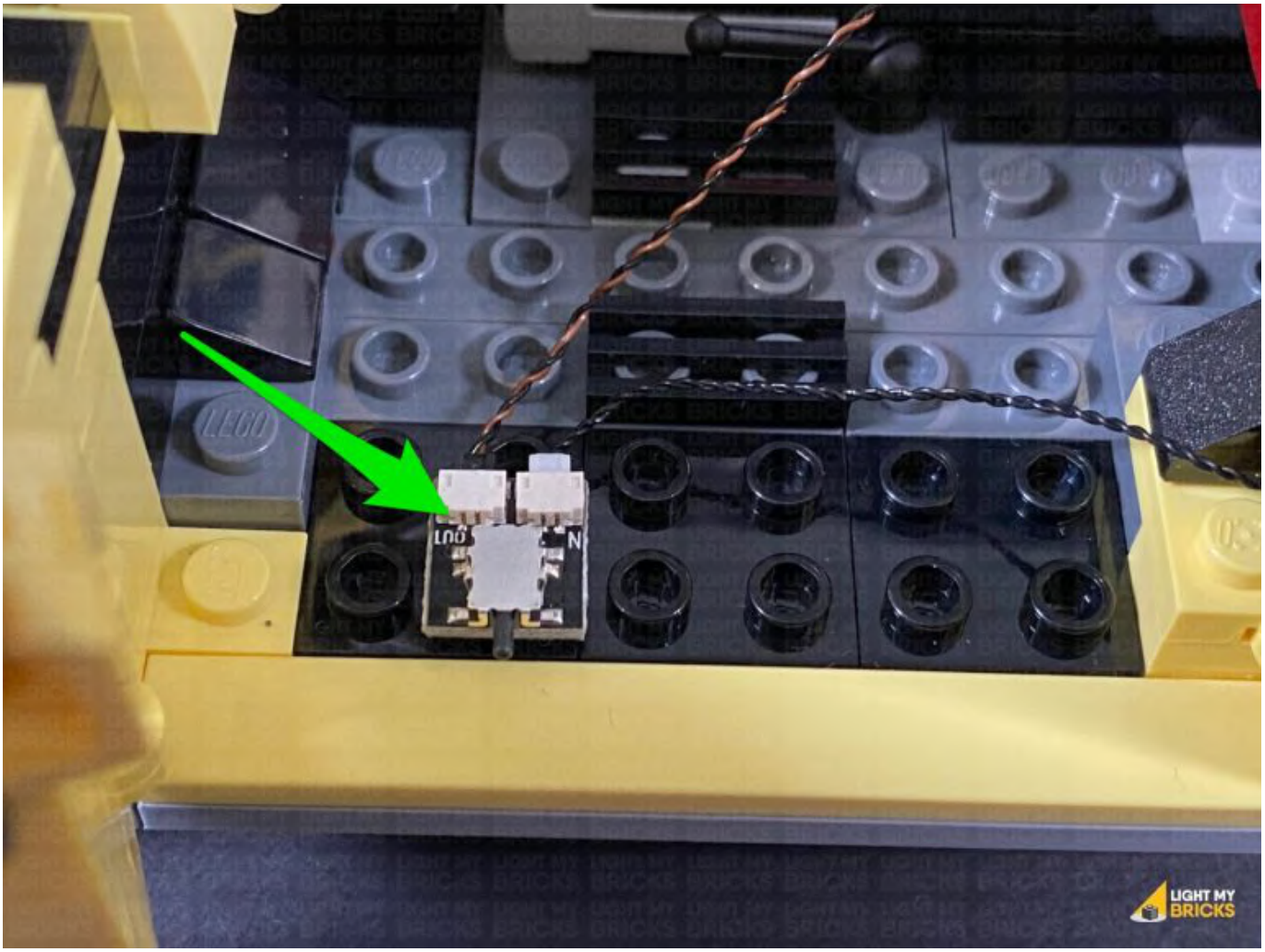
Take the remaining **White 15cm Bit Light** and connect the cable to the **OUT** port on the NC Push Board. Remove the protective backing on the NC Push Board, then using the adhesive underneath, stick the board to the floor of the vehicle near the edge of the door opening as shown below. Ensure the push trigger is facing out.



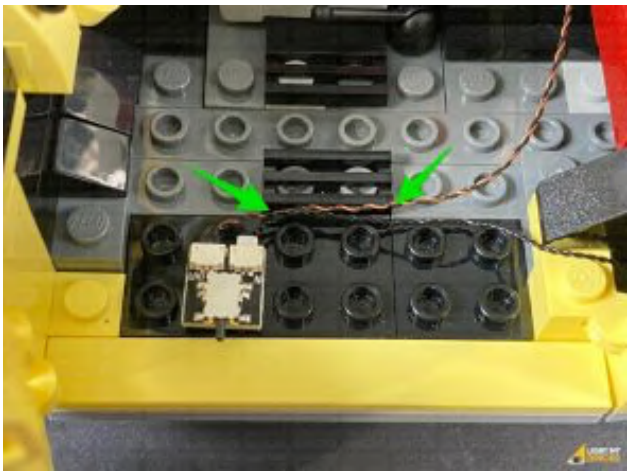
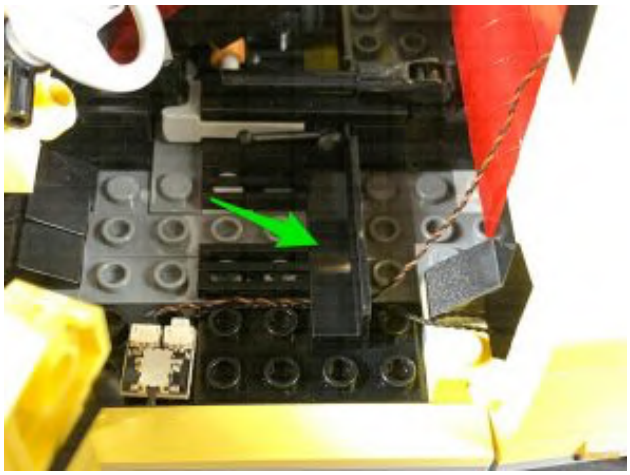
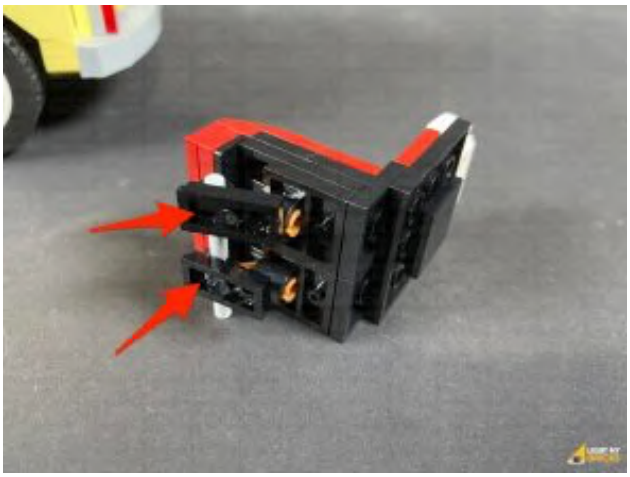
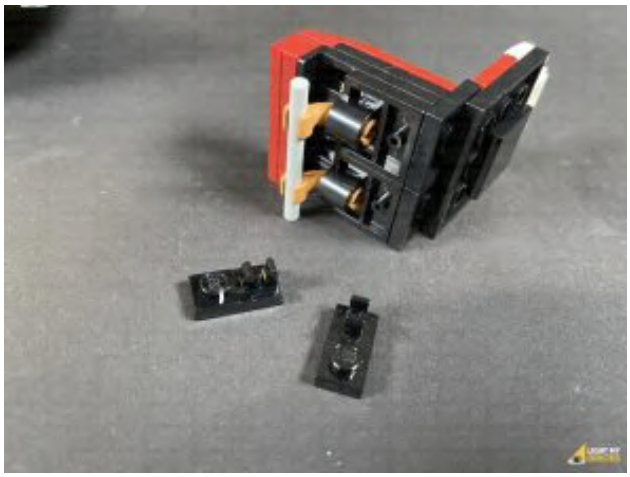
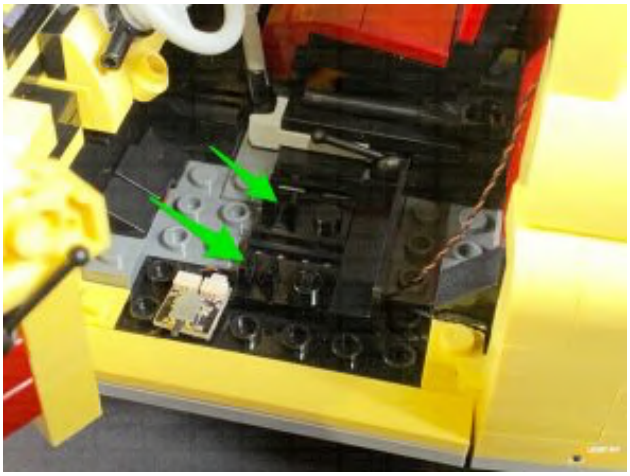





LIGHT MY BRICKS
KY-1

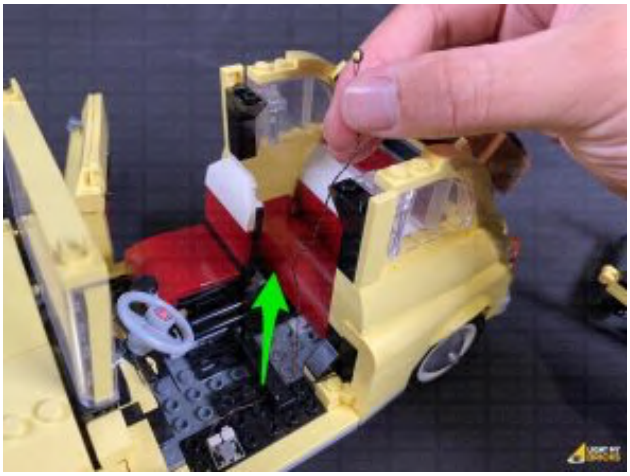
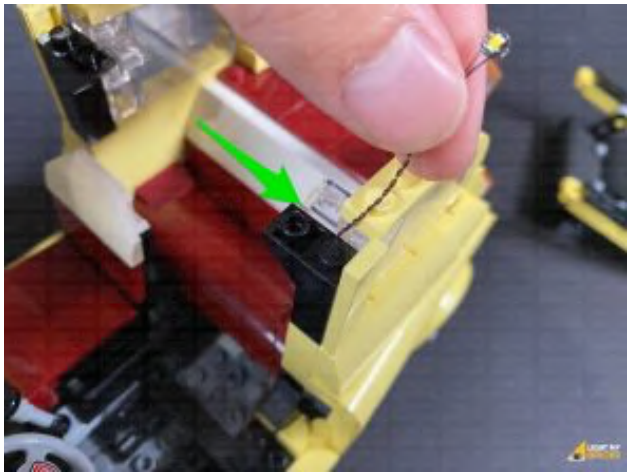
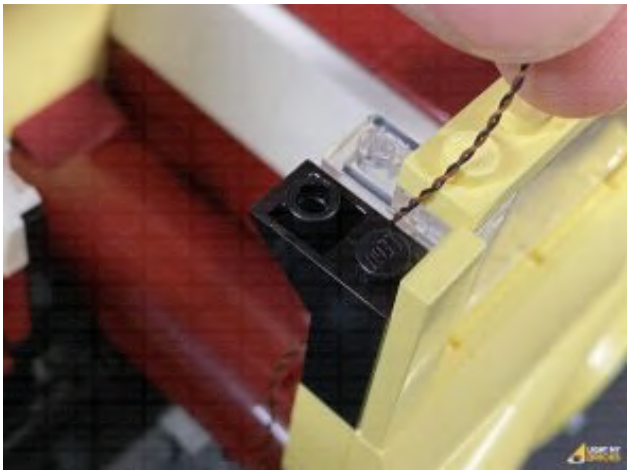
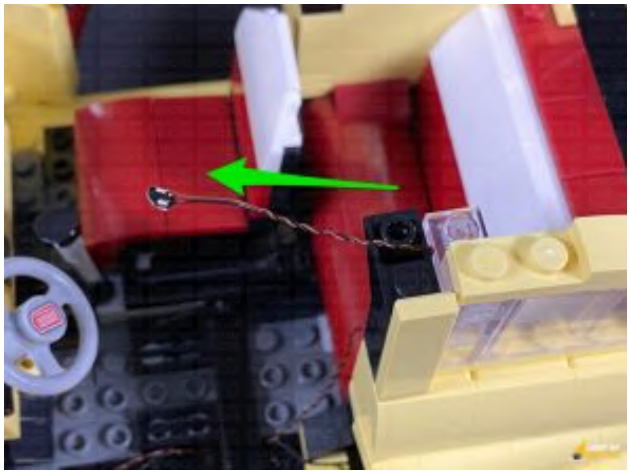
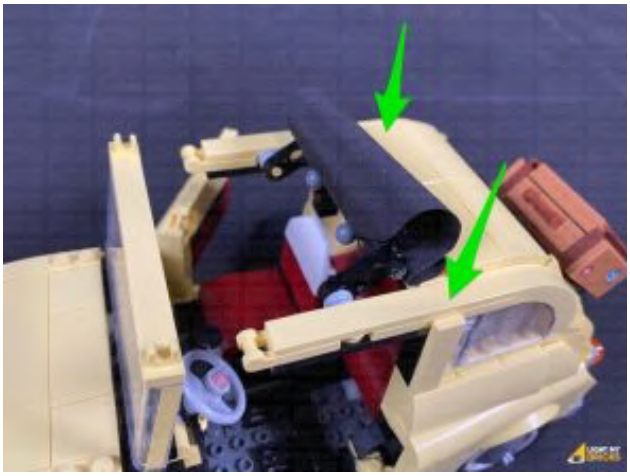
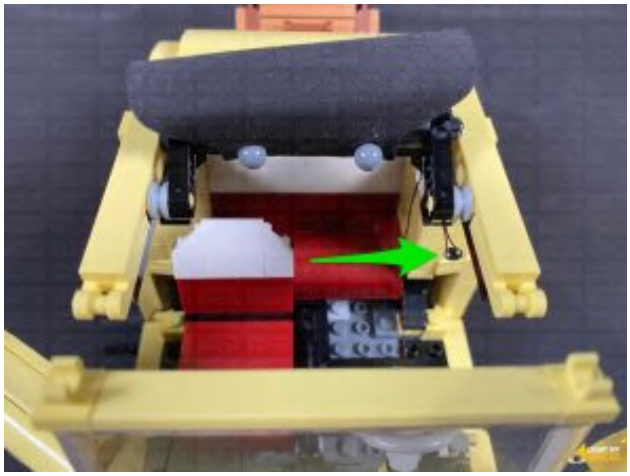

LEGO
LIGHT MY BRICKS

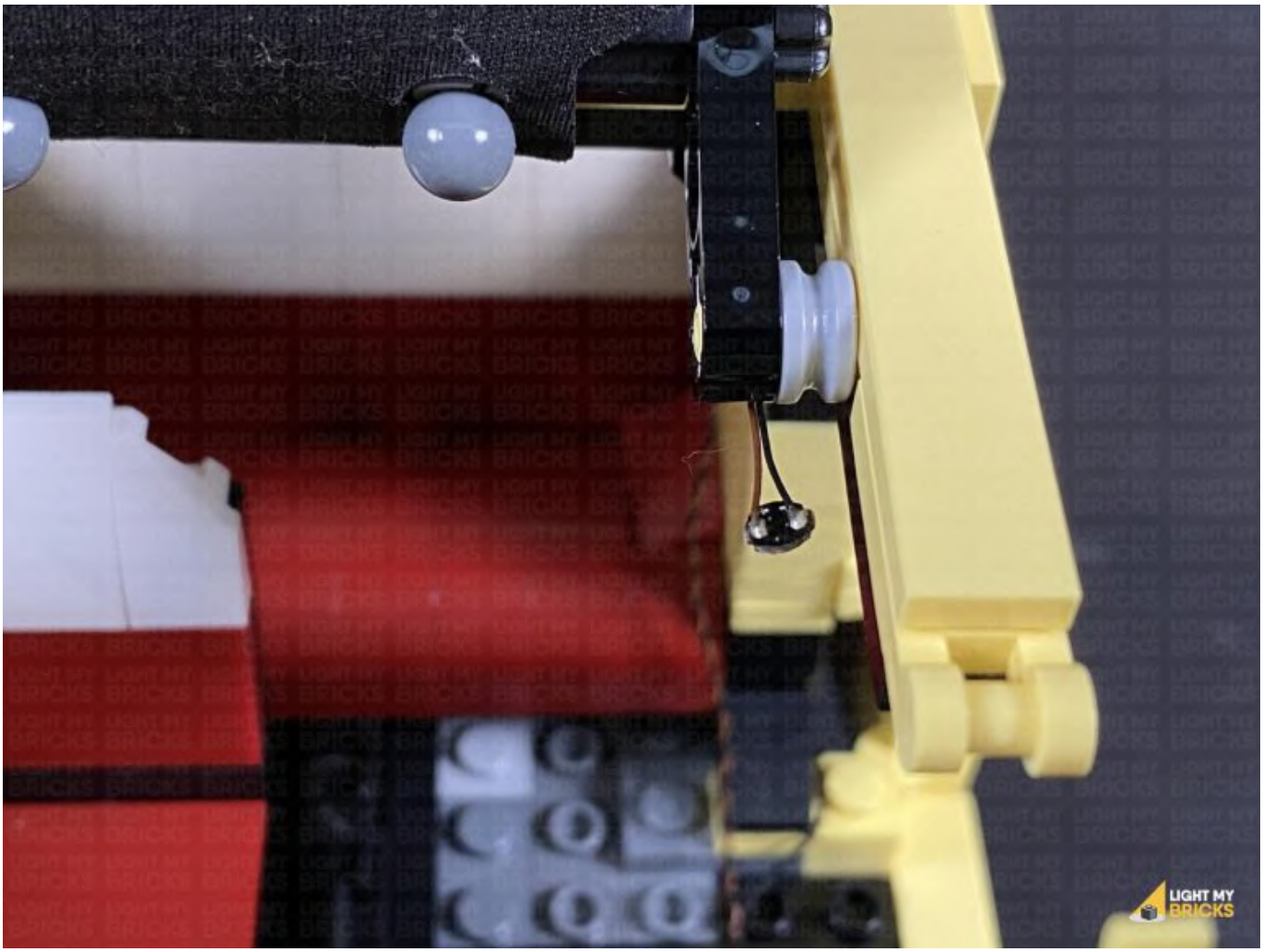
13.) Lay the two cables down in between studs toward the back seat, then reconnect the black 1×4 L plate down over the top. Disconnect the two black 1×2 tiles with clips from the bottom of the driver seat, then reconnect these to the floor as shown below.

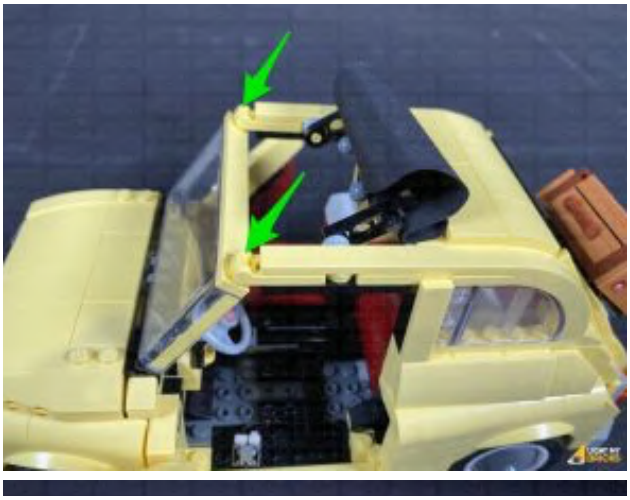
Pull the Bit Light end of the cable up and slip it in between the black angled

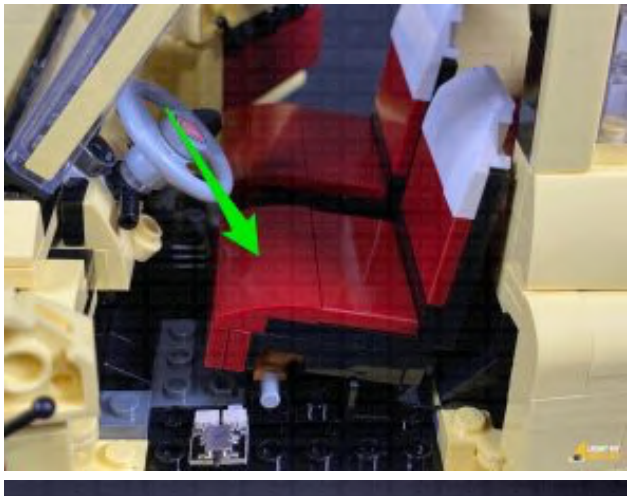
brick and the trans clear window piece. Fold the Bit Light over and lay it in between studs, ensuring the LED is facing down, then reconnect the back sides of the roof section. The Bit Light should be slightly sticking out about 1-2 CM to shine down on the front seat.



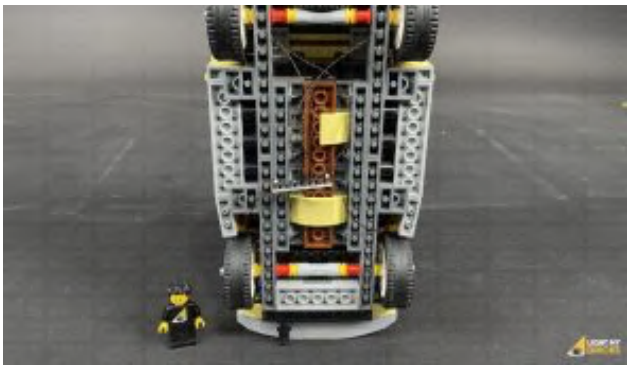
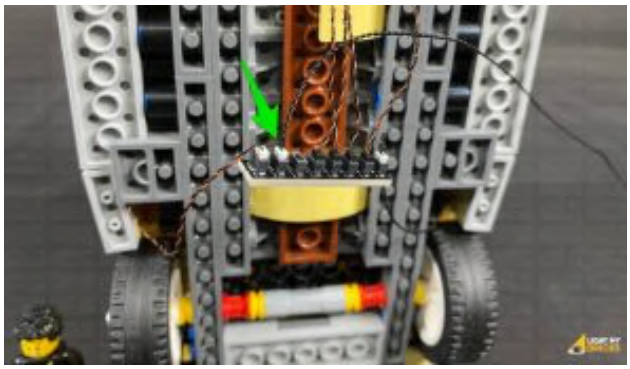
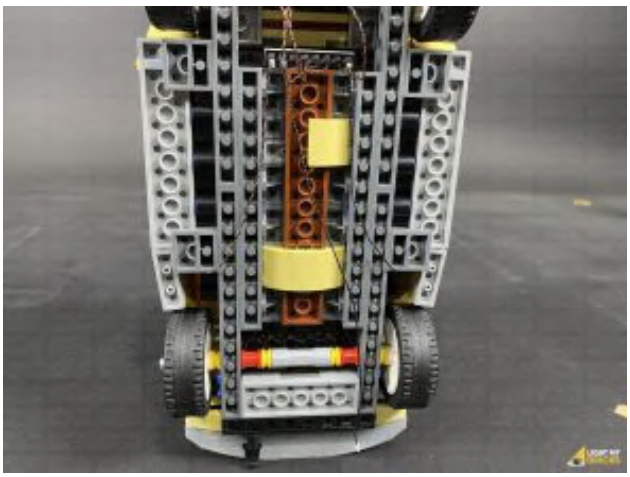
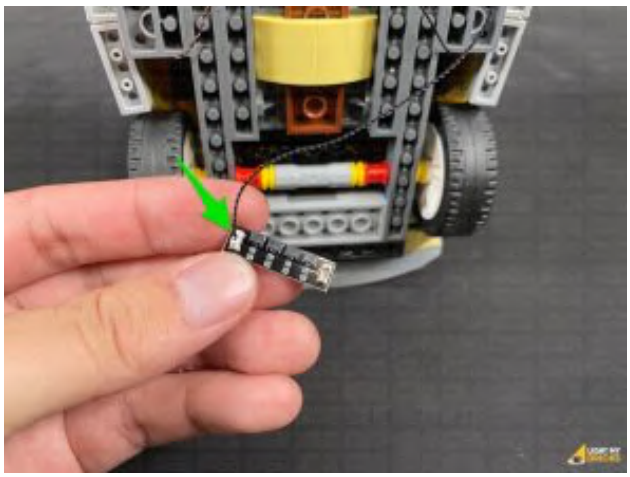
Reconnect the roof at the front clips, then reconnect the driver seat. Turn the battery pack ON to test the internal Bit Light is working OK and the NC push Board works when pushing the trigger. The internal light should deactivate when the door is closed (NC Trigger is pushed in) and reactivate when the door is open (NC Trigger is released).



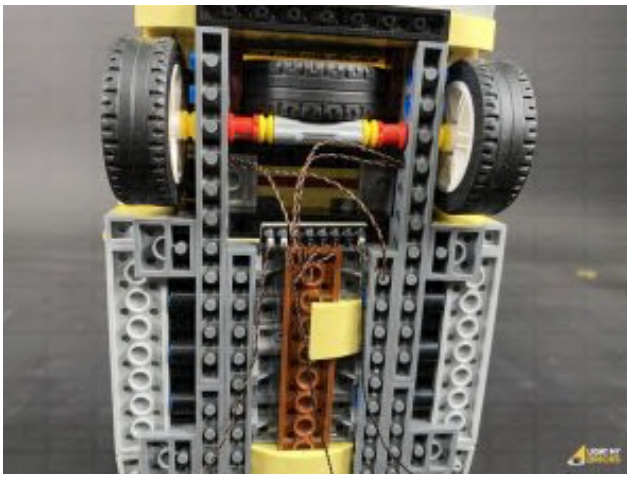
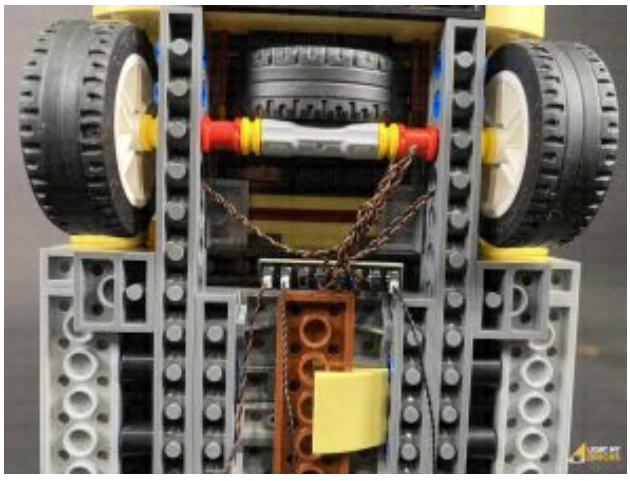


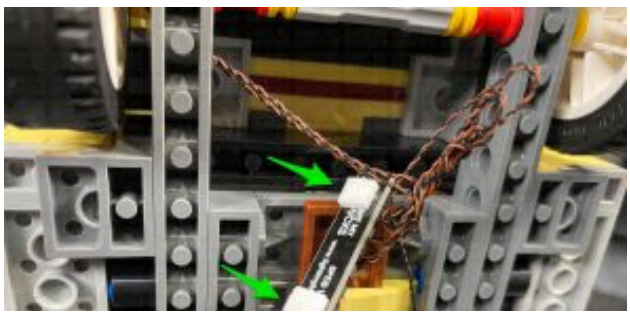
Note: If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing expansion board issues on our ***online troubleshooting guide.***

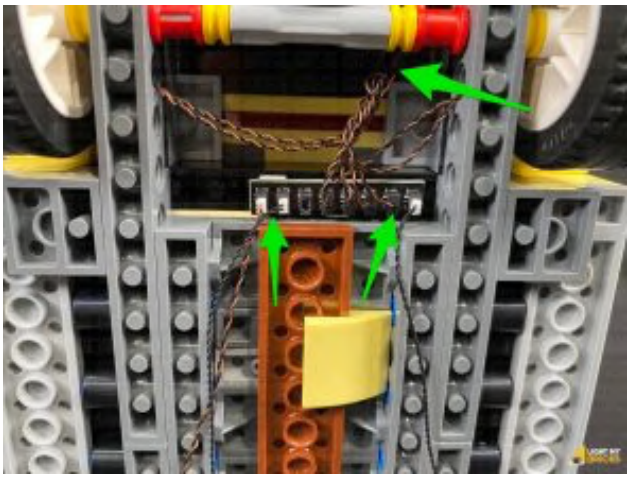
14.) Place the vehicle onto it's back so we can access underneath. Take out the remaining **15cm Connecting Cable** and connect it to a spare port on the 8-Port Expansion Board. Connect the other end of the cable to the **Micro 2-4 Expansion Board** (larger port).

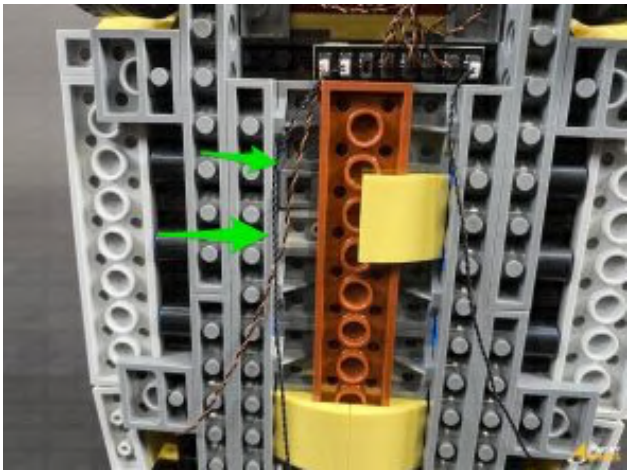
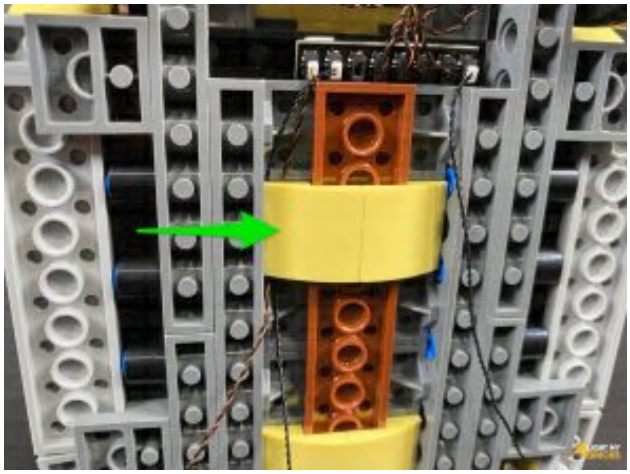
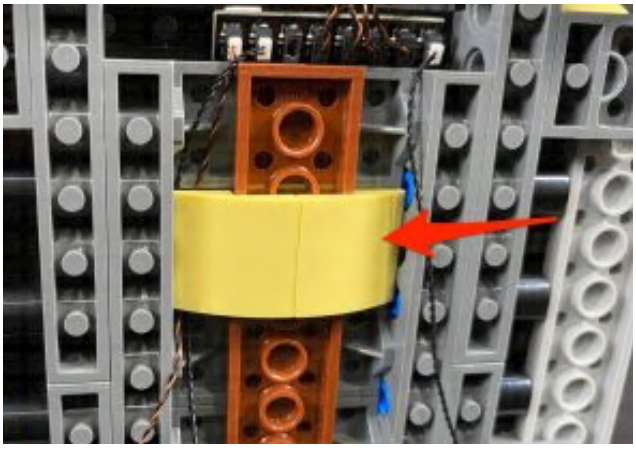
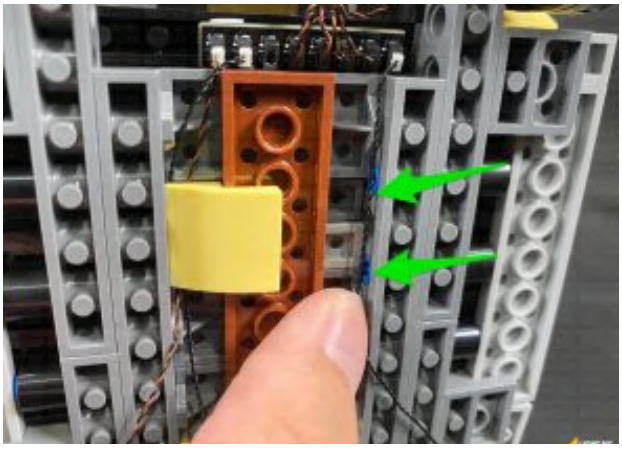
Twist the Bit Light cables from the headlights around each other into a neat bunch. Stick **2x Adhesive Squares** to the back of the 8-Port Expansion Board, then mount the board to the following position underneath the car. Tuck the bunched up cables underneath the wheel axle behind the board.

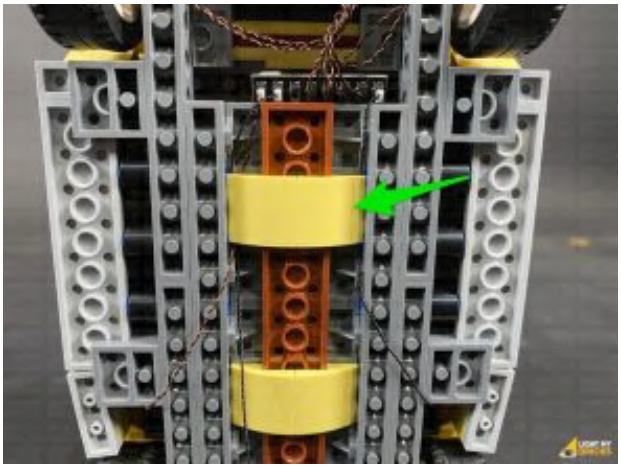





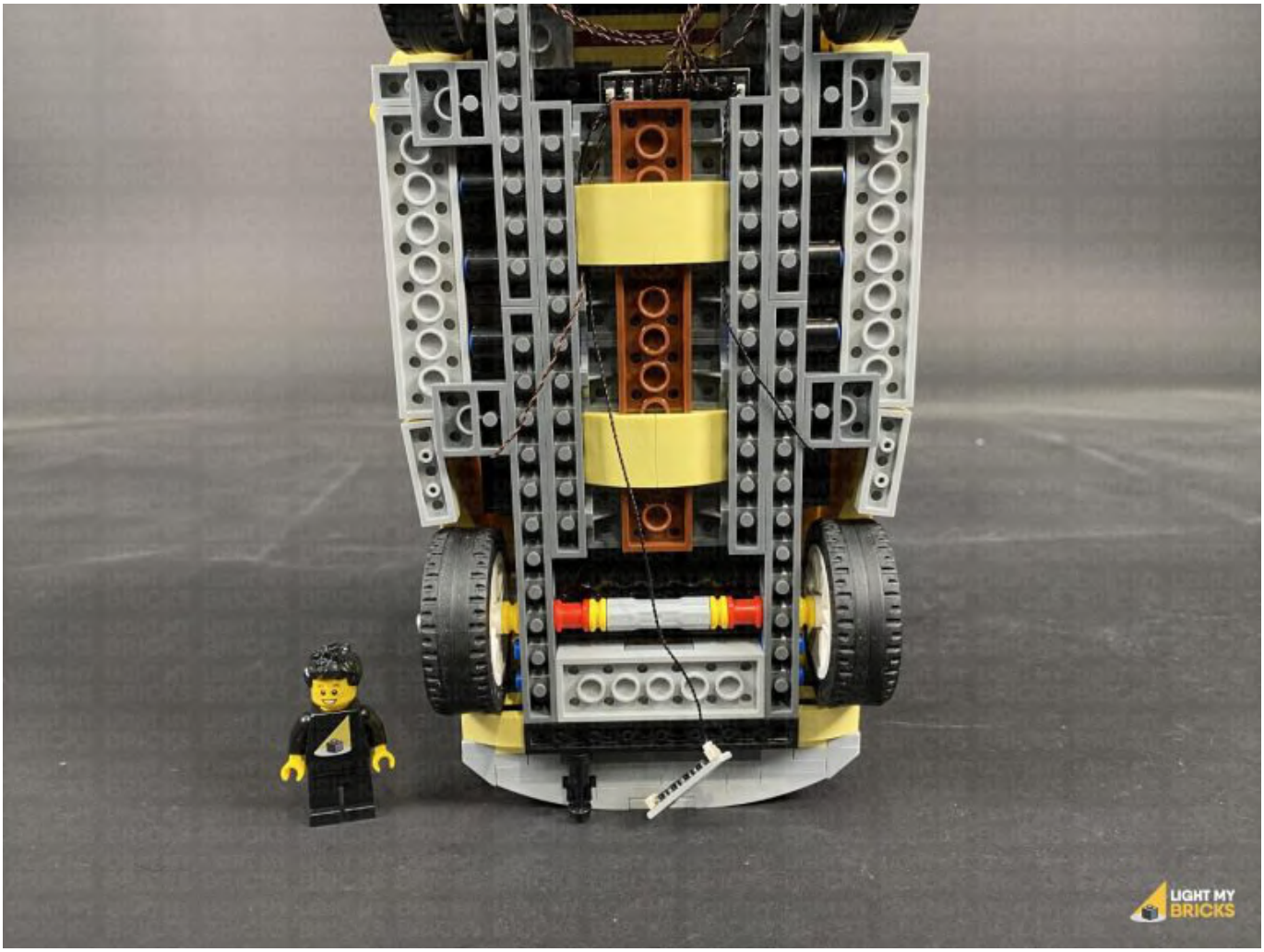


Lay the Bit Light cable and the 15cm Connecting Cable down the left side, then reconnect the following angled yellow plate over the top, ensuring the cables are laid in between studs underneath. Disconnect the angled yellow plate on the right side and lay the 15cm cable (connecting to the NC Push Board) down in between studs before reconnecting the angled plate over the top.

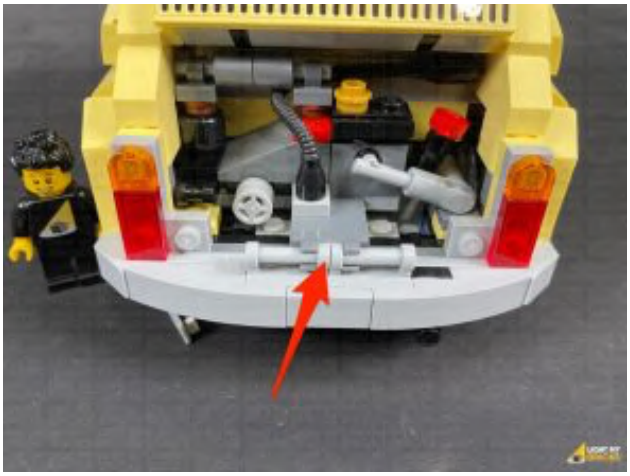
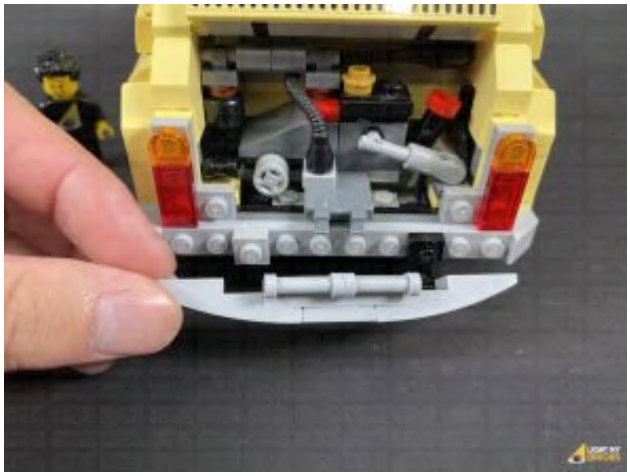
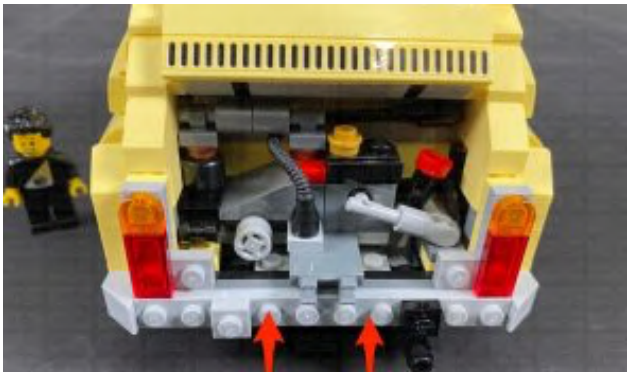







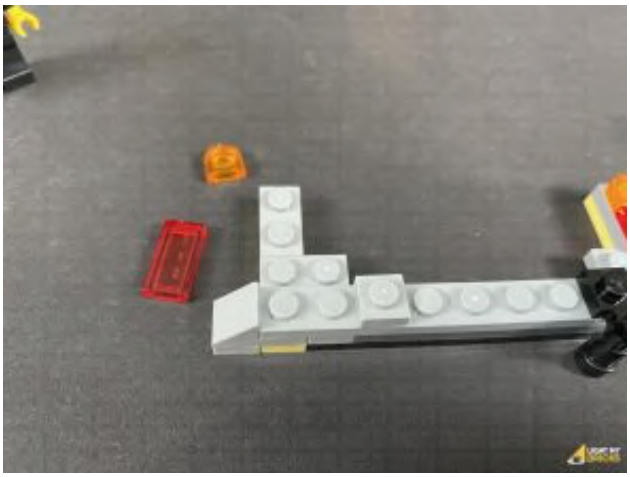
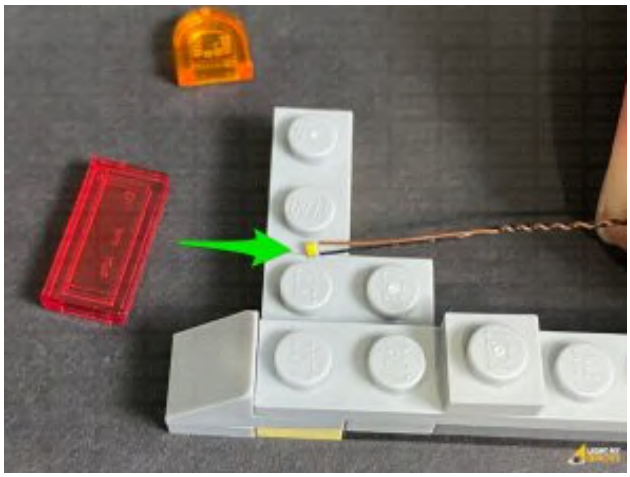
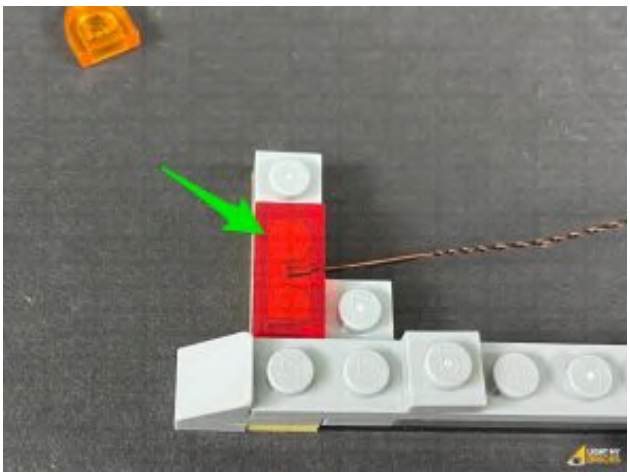
The underneath of the vehicle should look similar to below.



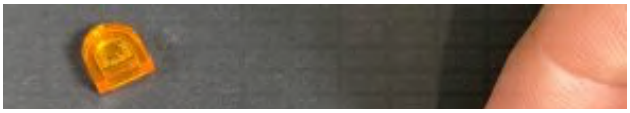
15.) Turn the Fiat to the back and disconnect the trunk door via the clips, then disconnect the bottom bumper section from the centre clips as well as the tail light section underneath.

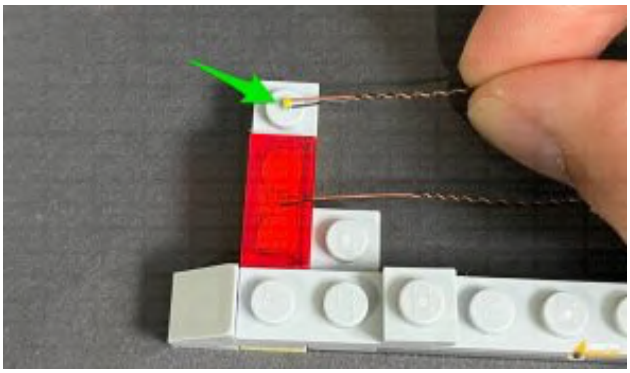
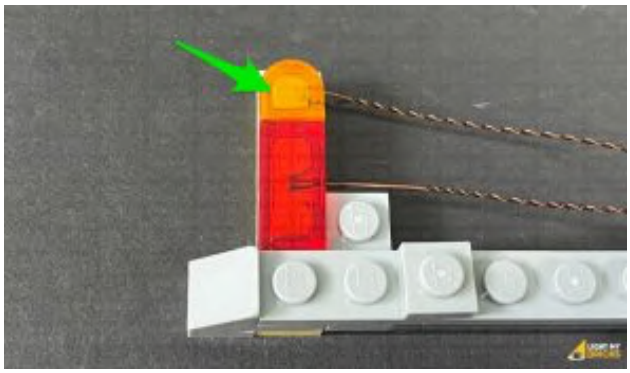
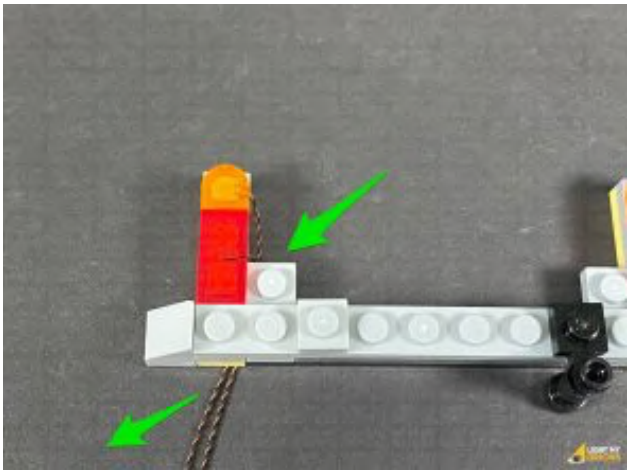




16.) Disconnect the trans red and orange tiles from the left side. Take a **White 15cm Micro Bit Light** and with the cable facing inside, place it in between the following studs. Ensure the LED is facing up, then reconnect the trans red tile over the top.

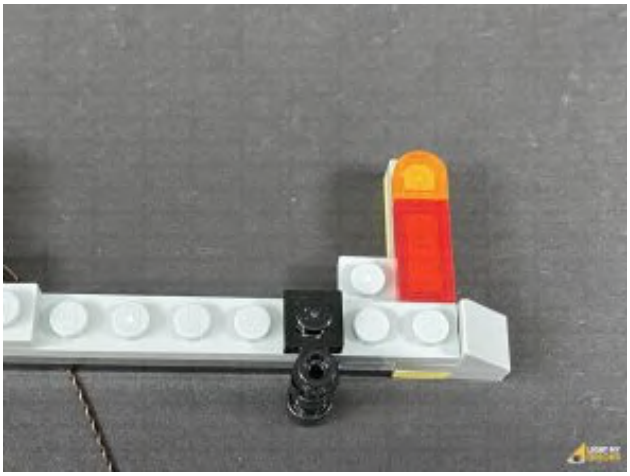
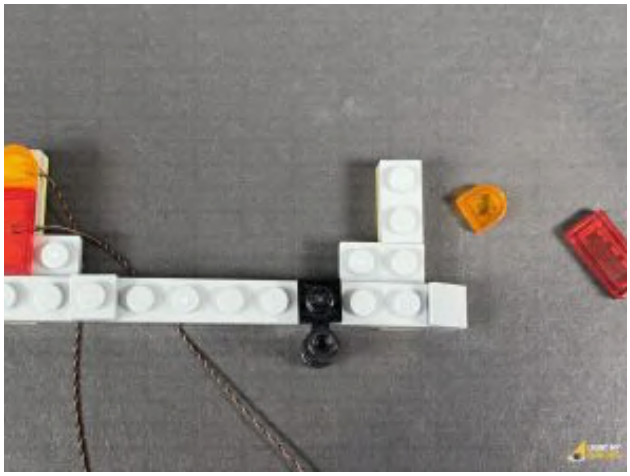
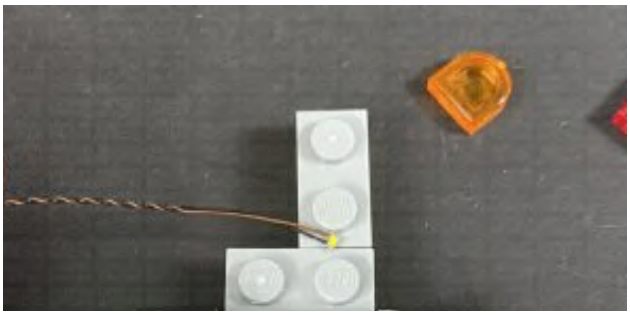
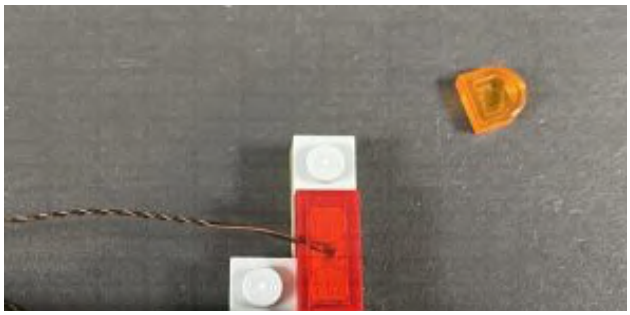




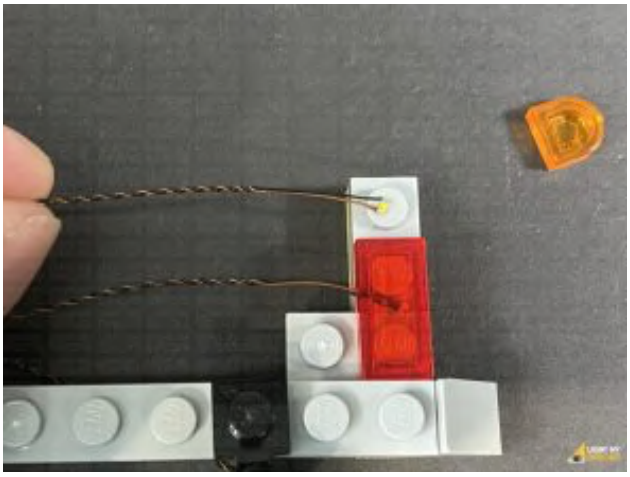
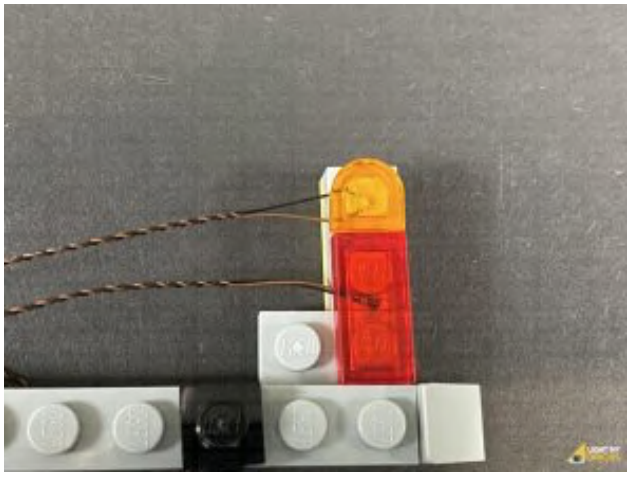
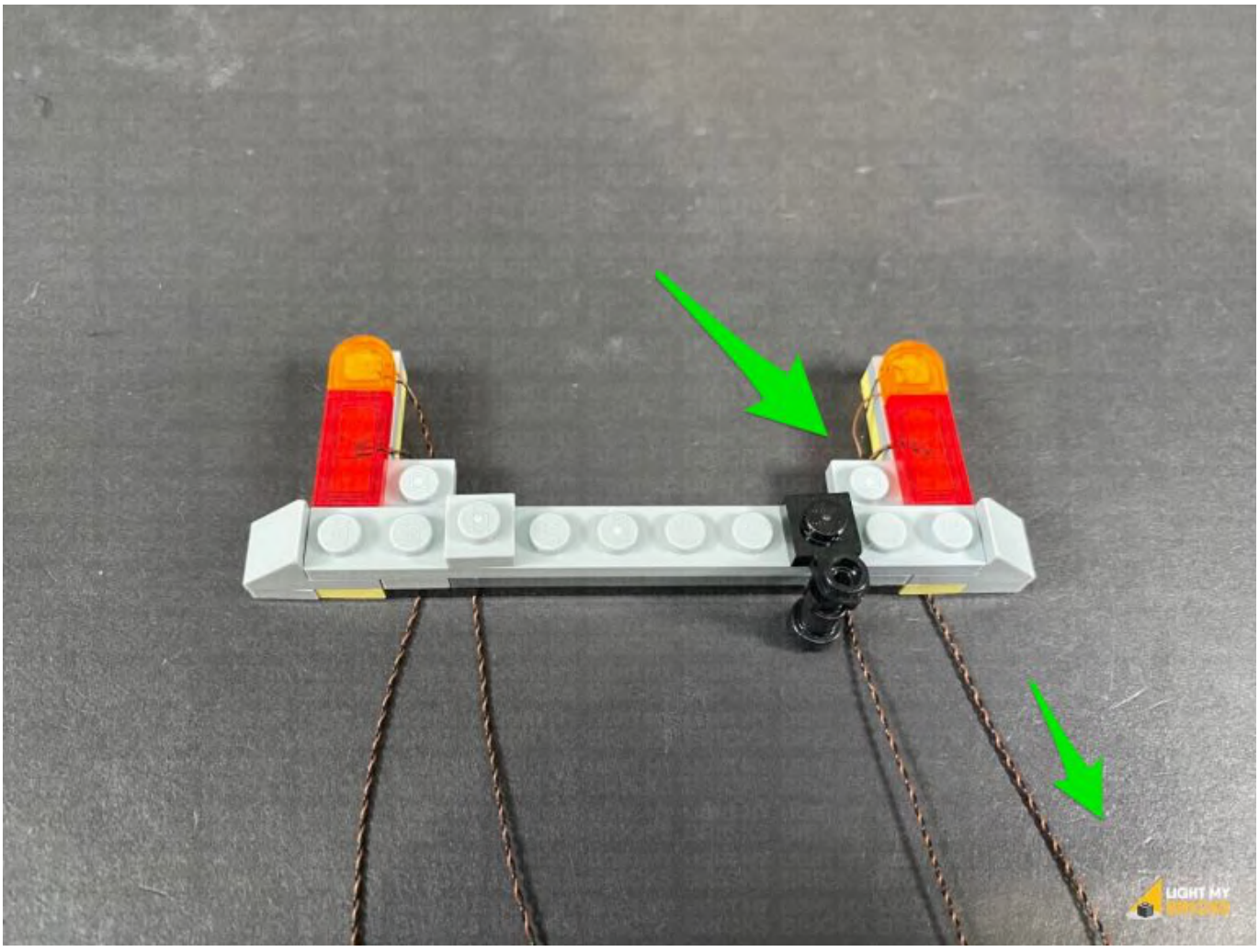
Install another **White 15cm Micro Bit Light** to the stud above, then secure it in place by reconnecting the trans orange tile over the top. Fold both cables underneath the plates, towards the bottom as shown below.



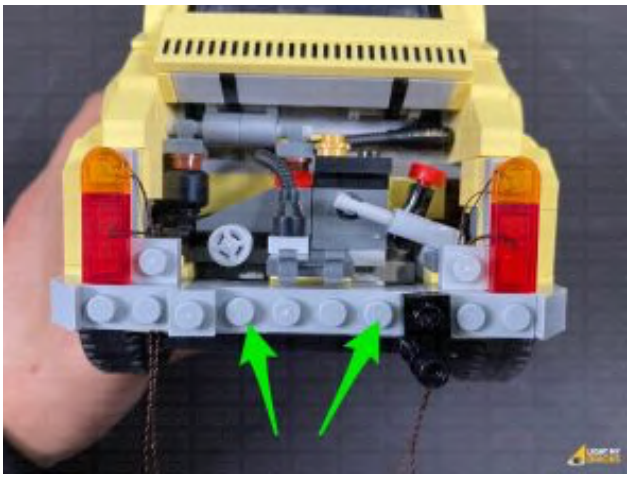
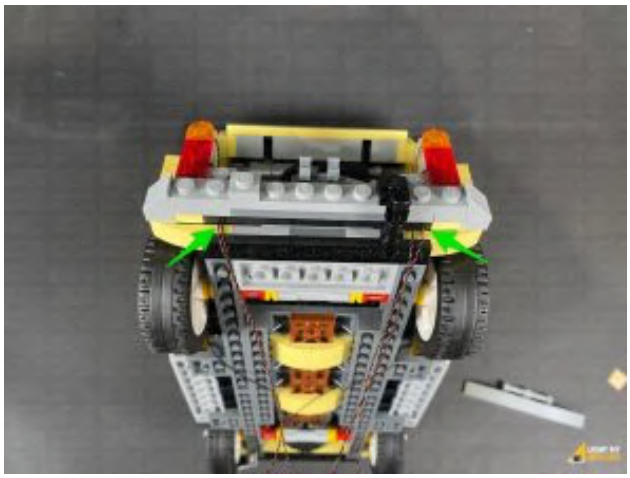
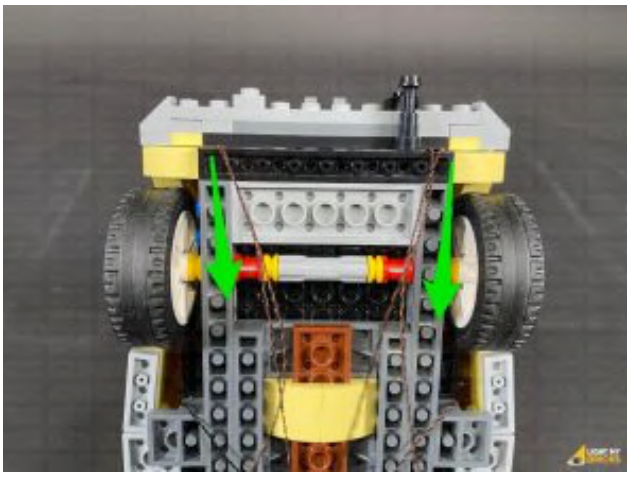
17.) Install another **2x White 15cm Micro Bit Lights** to the tail lights on the right side.

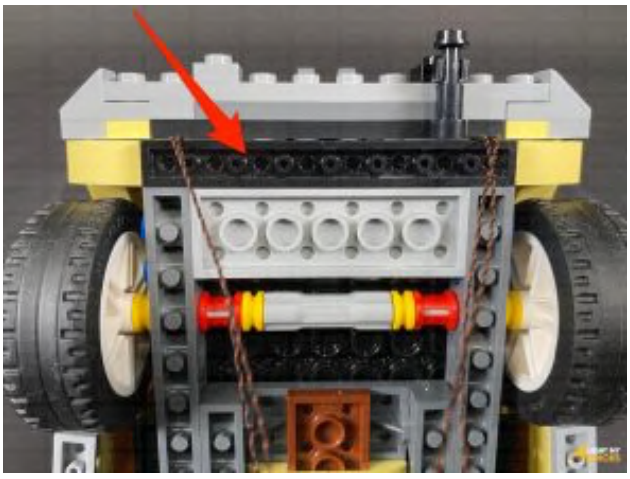
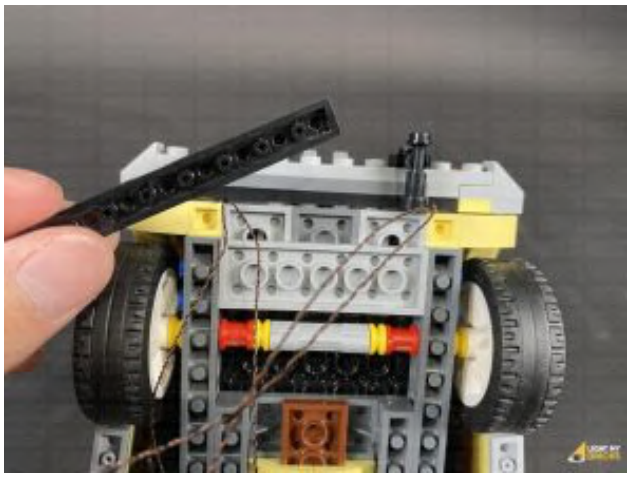




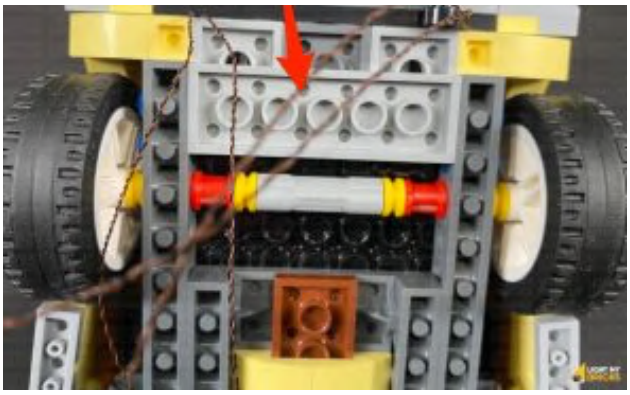
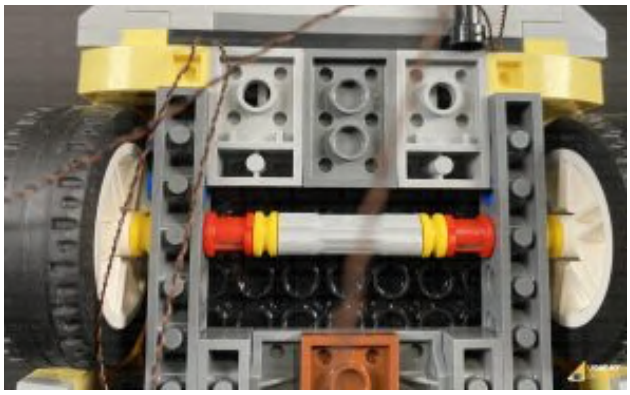
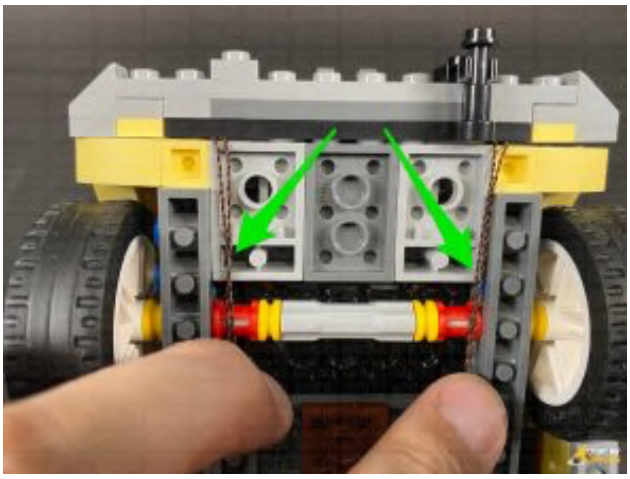
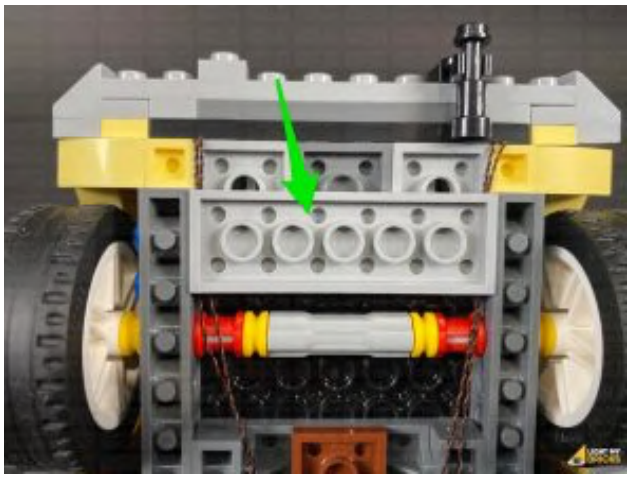
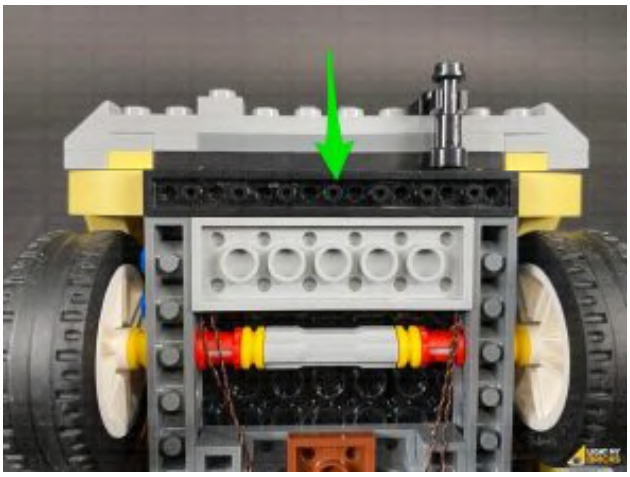
18.) With all the cables folded underneath, reconnect the tail light section to the

back of the car. Ensure the cables on each side are laid together in between studs. Flip the car over and fold the cables down underneath the vehicle.

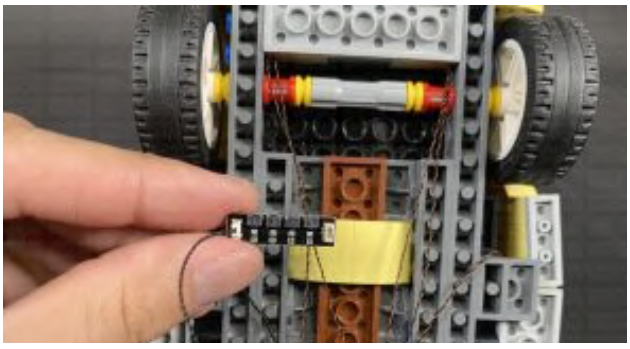
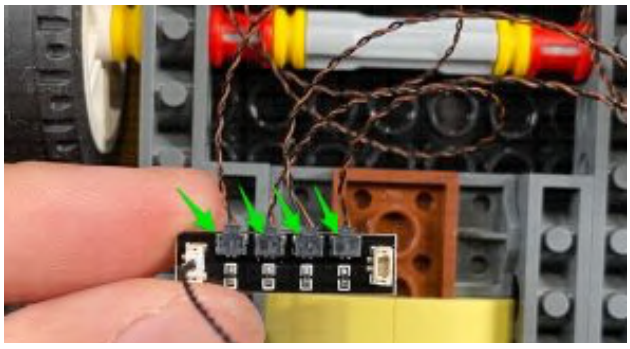




Disconnect the black and grey plates. Neatly lay down both groups of cables, then reconnect the plates over the top of the cables, ensuring they are laid in between studs.

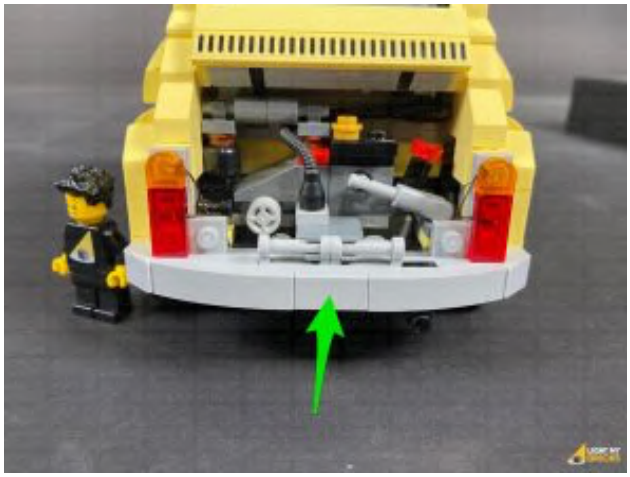



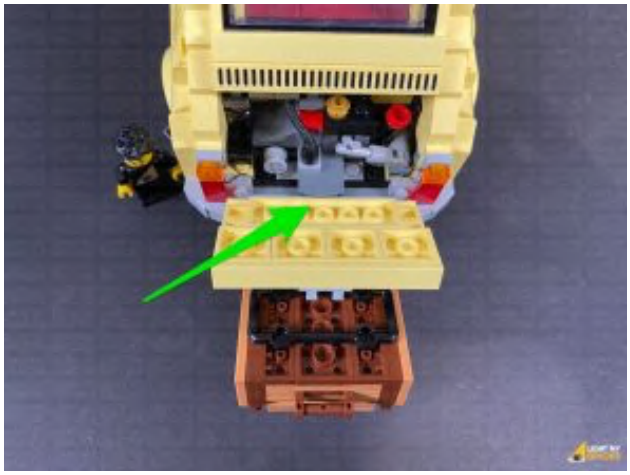
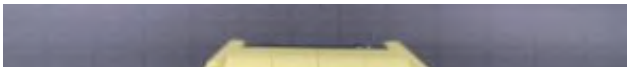






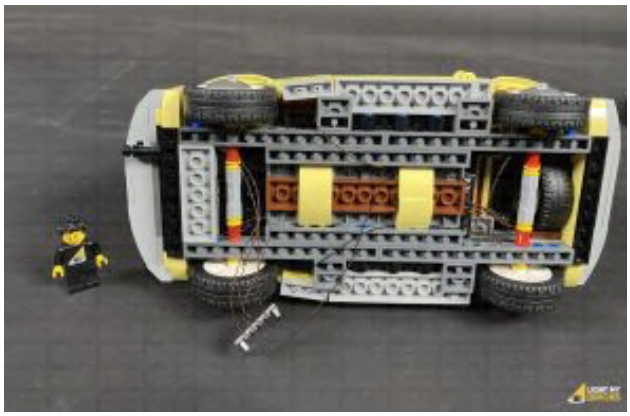
Connect the four Micro Bit Light cables to the Micro 2-4 Port Expansion Board (smaller ports), then turn the Battery Pack ON to test the tail lights are working OK.

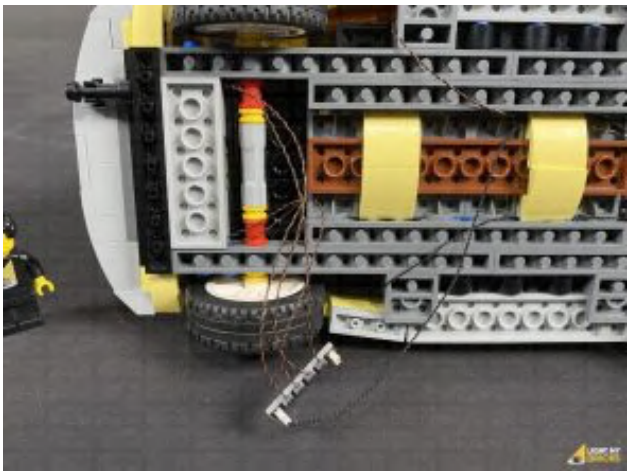
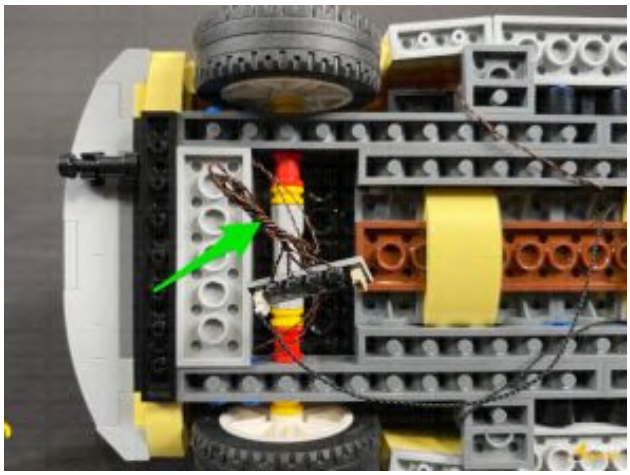
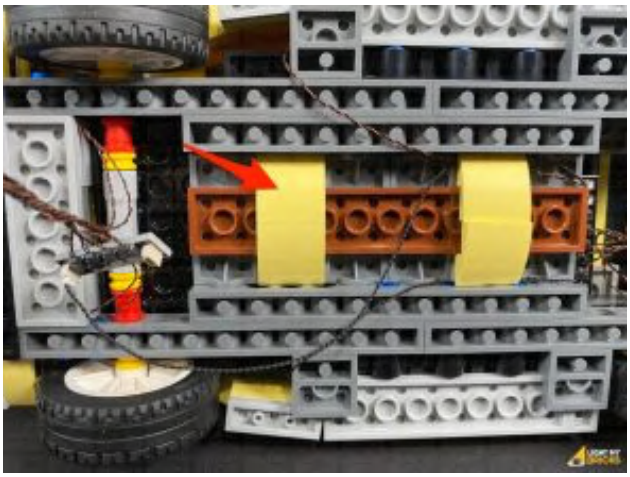
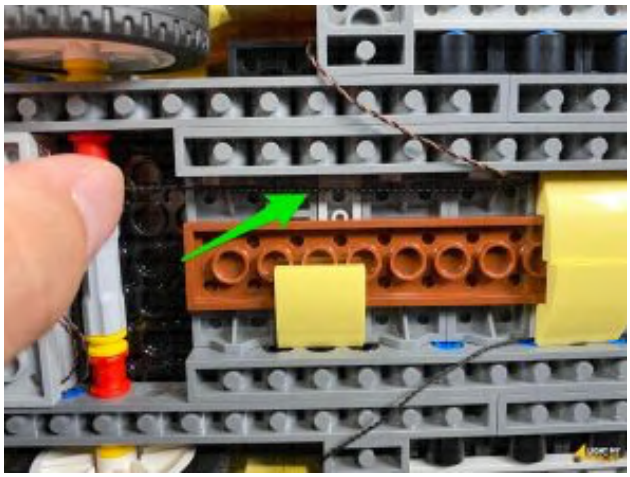
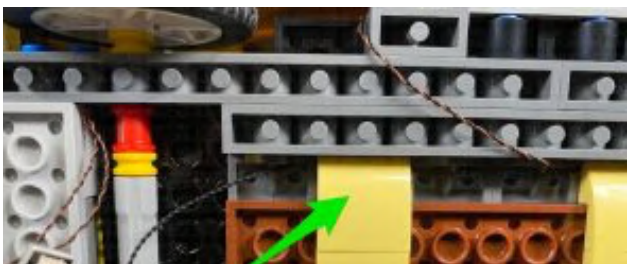
19.) Reconnect the bumper section, followed by the trunk door, then flip the car onto it's side so we can access underneath.

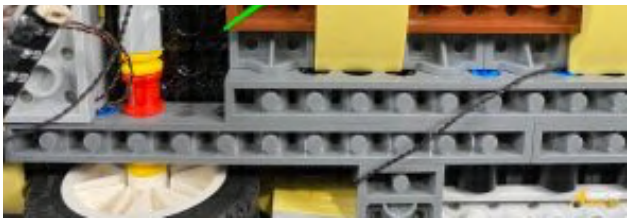


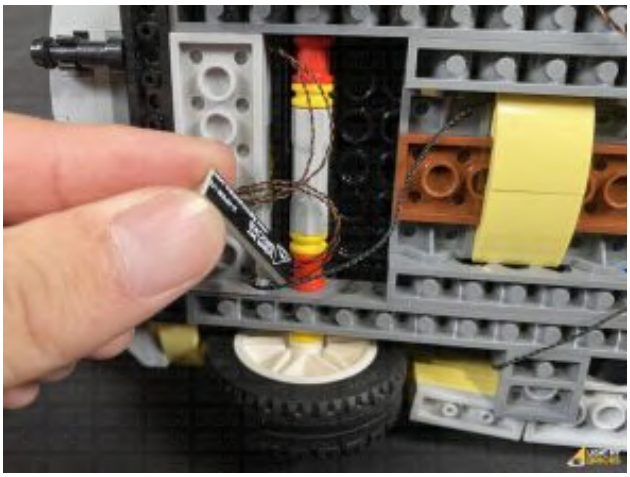


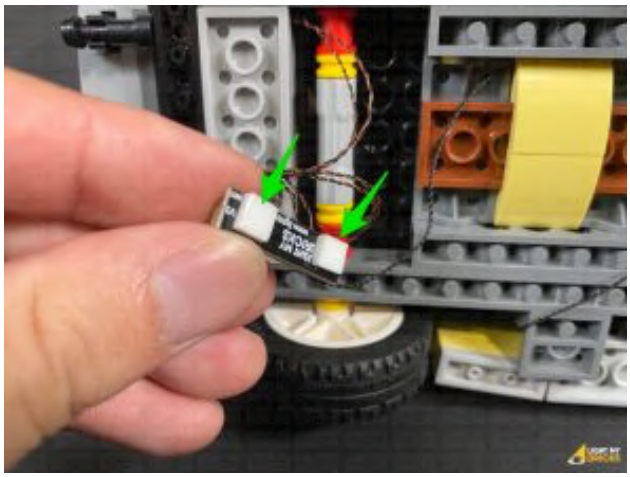
Twist the Micro Bit Light cables together into a neat bunch, then lay the 15cm connecting cable between both expansion boards underneath the following yellow angled plate. Disconnect the following yellow angled tile and reconnect it over the cable ensuring it is are laid in between studs underneath.

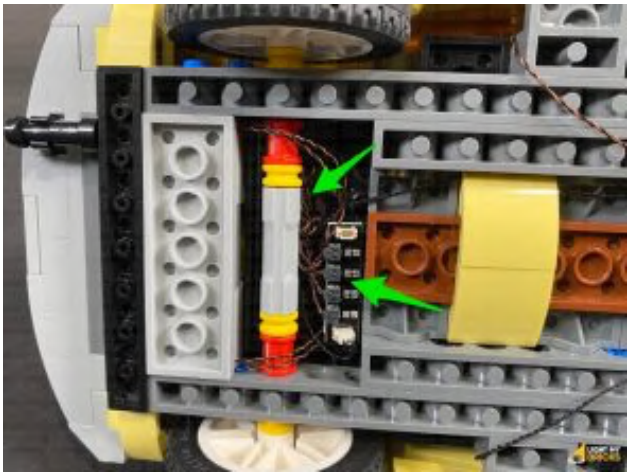






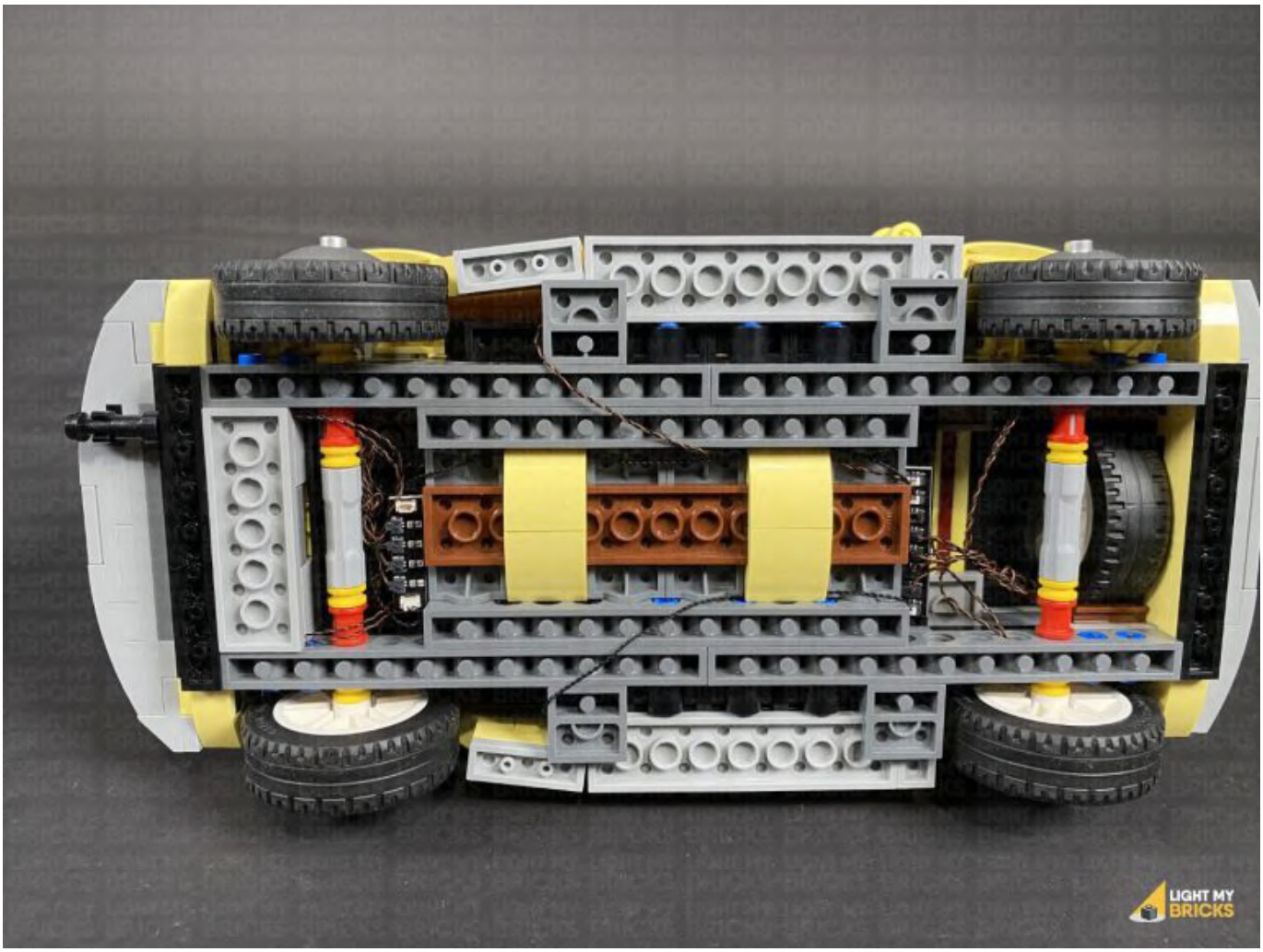


Stick **2x Adhesive Squares** to the back of the Micro Expansion Board, then mount the board to the following position behind the wheel axle. Tuck the bunched up cables underneath the axle as shown below. Neaten up any excess cable that may be dangling out.









Flip the vehicle back over and you’re done! You can easily access the Flat Battery Pack from the back of the front passenger seat. Place the Battery Pack back inside and close the door to fully conceal it.

This finally completes installation of the Light My Bricks Fiat 500 Light Kit.

We thank you for purchasing this product and hope you ENJOY!

LIGHT MY
BRICKS

PN
10 271
LIGHT MY
BRICKS

LIGHT MY
BRICKS

LIGHT MY
BRICKS