

## **THE SIMPSONS HOUSE # 71006**

Thank you for choosing our lighting products. We are committed to LEGO product study and lighting development, we're always trying our best to provide LEGO fans with the best products and the best installation ideas.

Must be careful observation, imagination can be infinite.

We provide basic parts to support your imagination.

DO IT YOURSELF .that's what LEGO is .

As always, Lego has been adhering to the DIY philosophy from product selection, research and development to sales. Consumers buy the parts, you will assemble them by yourself, and you can experience every step from picking up the first piece to installing the last one. Besides, LEGO has different answers for the installation form and method of each part. Vonado lighting also does not want to kill your unlimited creativity, we will try our best to make products with high variability, high playability and unlimited play. If you have any dissatisfaction or your own ideas on the parts such as the color of the lights, the length of the cables, the installation position of the product, and the final effects of each module, you can make your own arrangement, and we will cooperate with you to replace or repurchase.

LETS MOVE!

### **Package contents:**

12x LED Warm White Strip Lights

12x Plates 1x6 (for mounting strip lights)

2x Warm White 30cm Dot Lights

4x Warm White 15cm Dot Lights

2x 6-Port Expansion boards

1x 30cm Connecting Cable

7x 15cm Connecting Cables

5x 5cm Connecting cables

1x AA Battery Pack (3x AA batteries not included)

1x Flat Battery Pack (2x CR2032 batteries not included)

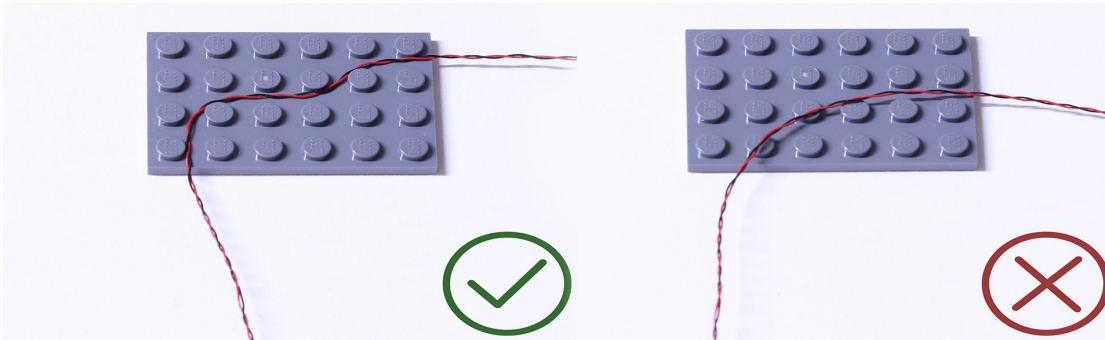
1x Switch board

3x Adhesive squares

## Note:

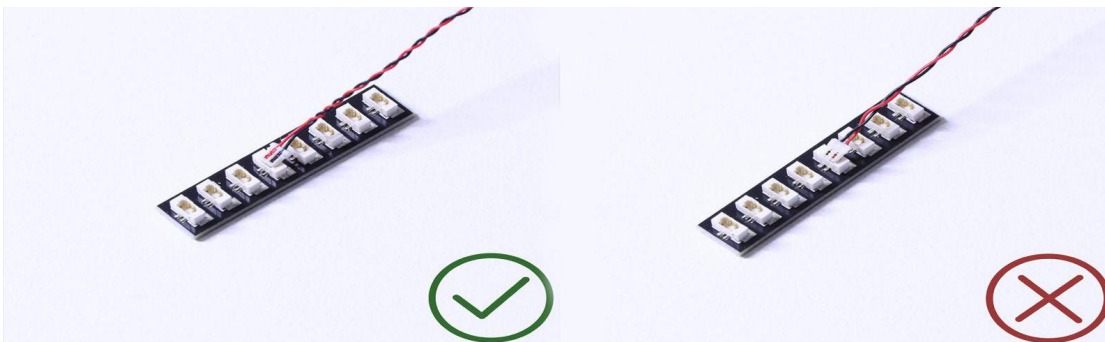
Place wires on the surface or under the building blocks.

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

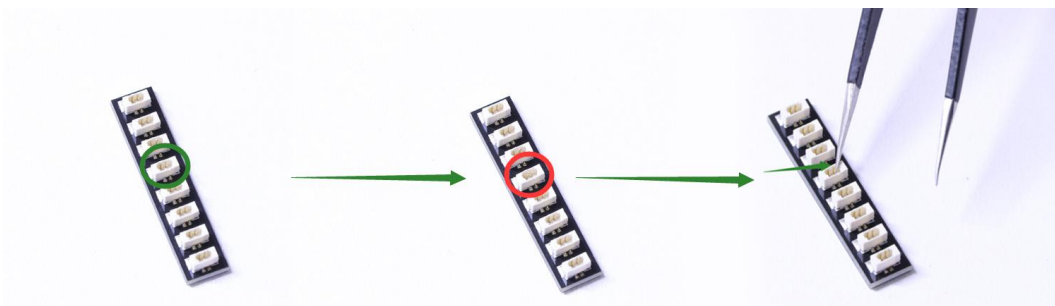


Insert the connectors to the ports.

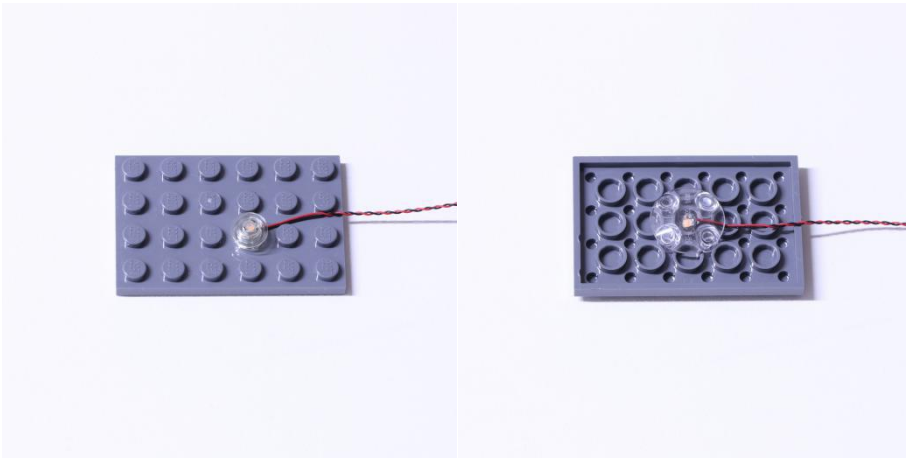
Be careful when you are operating, there's only one correct way to insert, make sure the expansion board is upward, find the soldered "=" sign on the left of the port. When you are inserting, the side which the wires can be seen should be faced to the "=" sign and if you feel hard to insert, please stop,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



At this point, use the tweezers to straighten the bent pins.

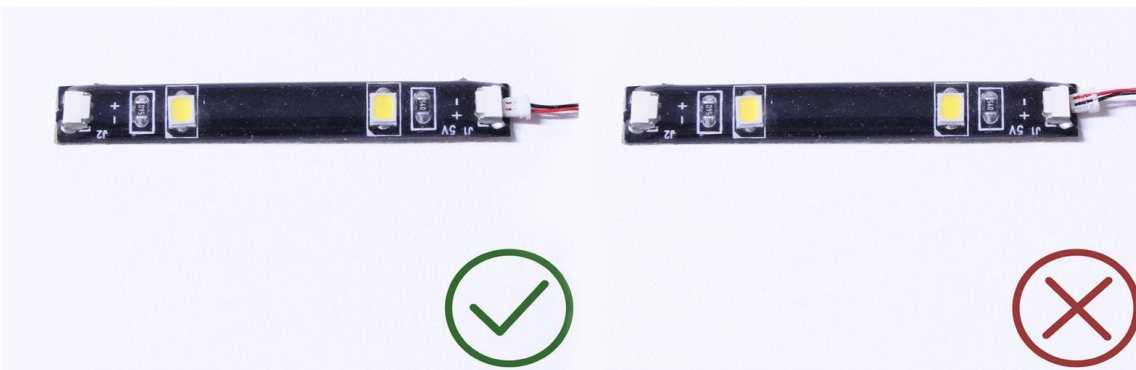


When installing dot lights, make sure they are correctly placed (Yellow LED package is exposed). You can put them either on the top of the studs or between studs.



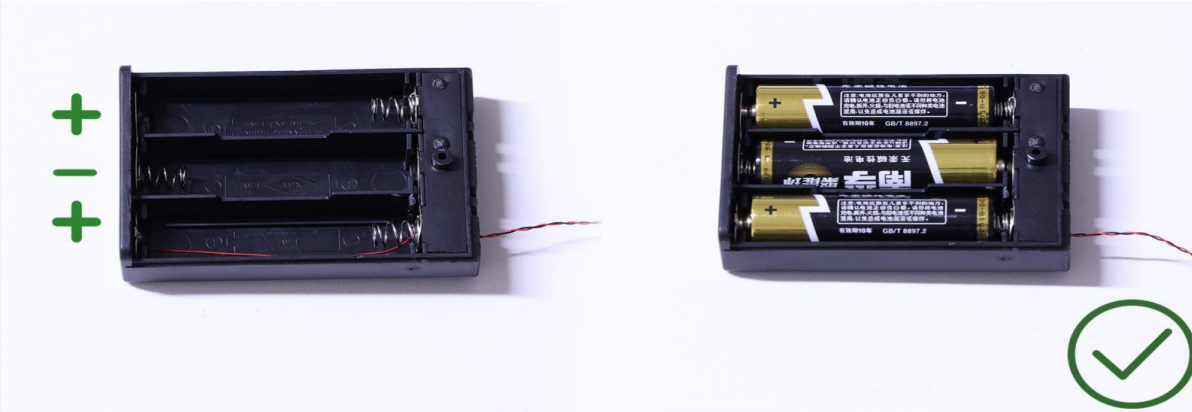
### Connecting cable connectors to Strip Lights

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



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



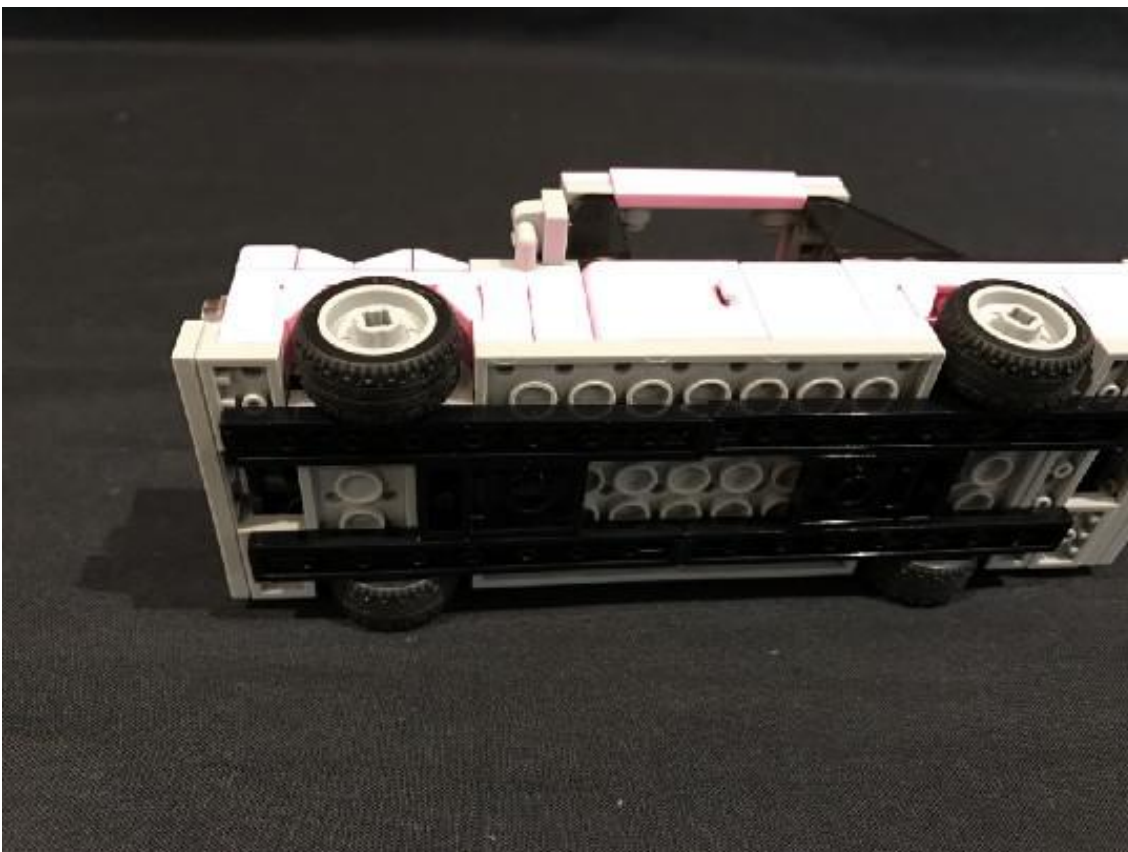


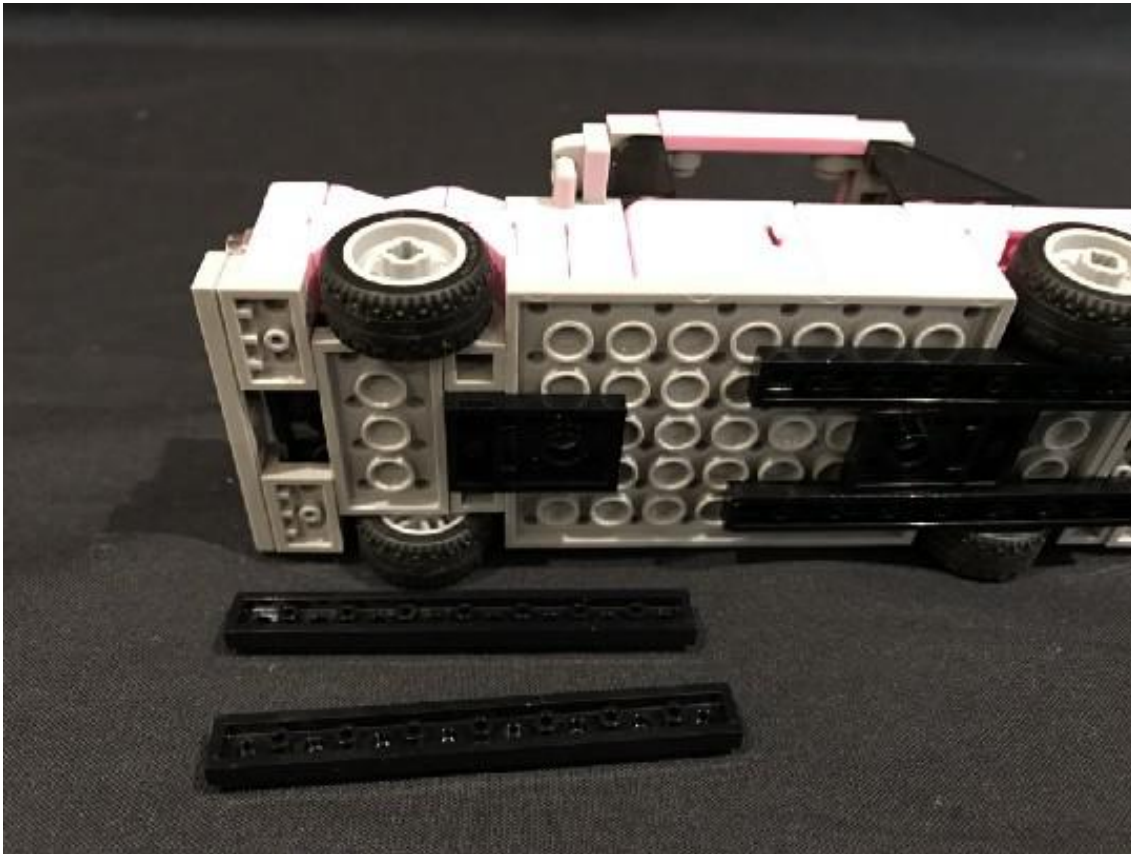
OK, Let's Begin!



## Instructions for installing lights to the Simpsons Car

1.) Turn the car over and remove the two black 1x8 plates





2.) Remove the rego plate which will then allow us to remove the two head light sections.

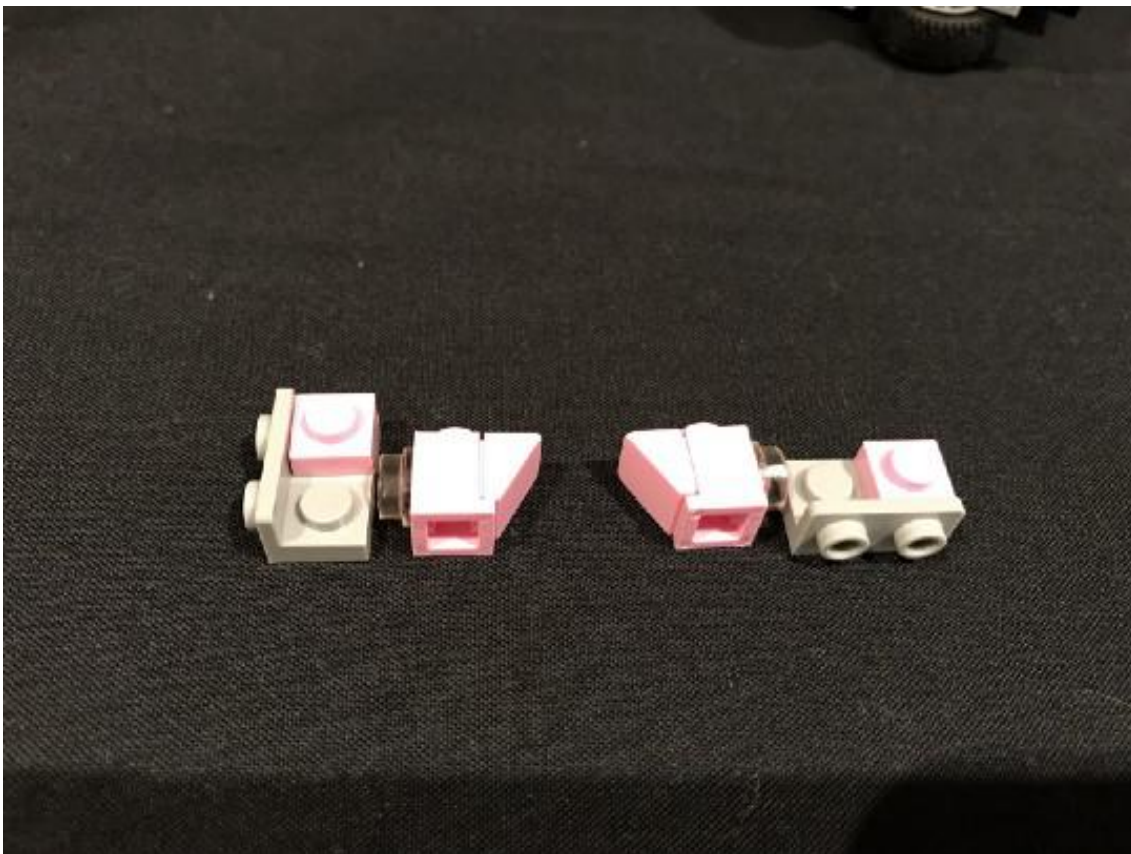
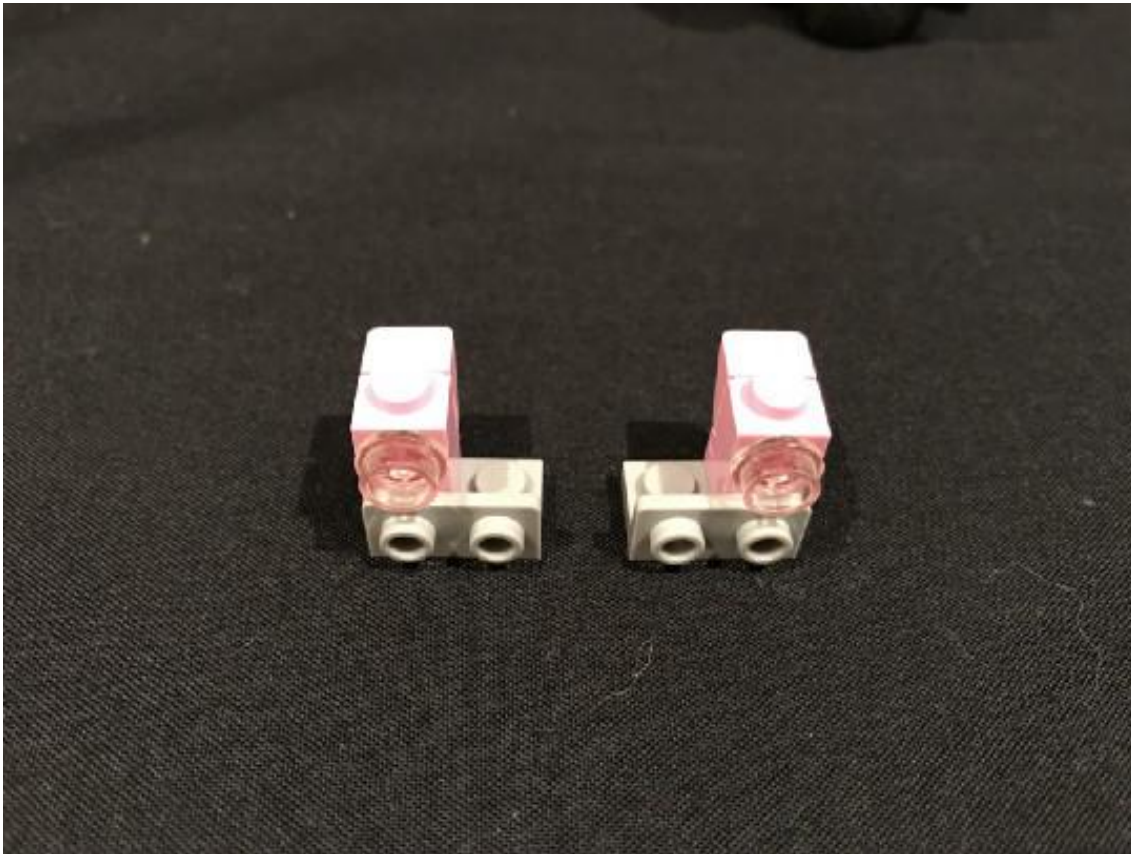




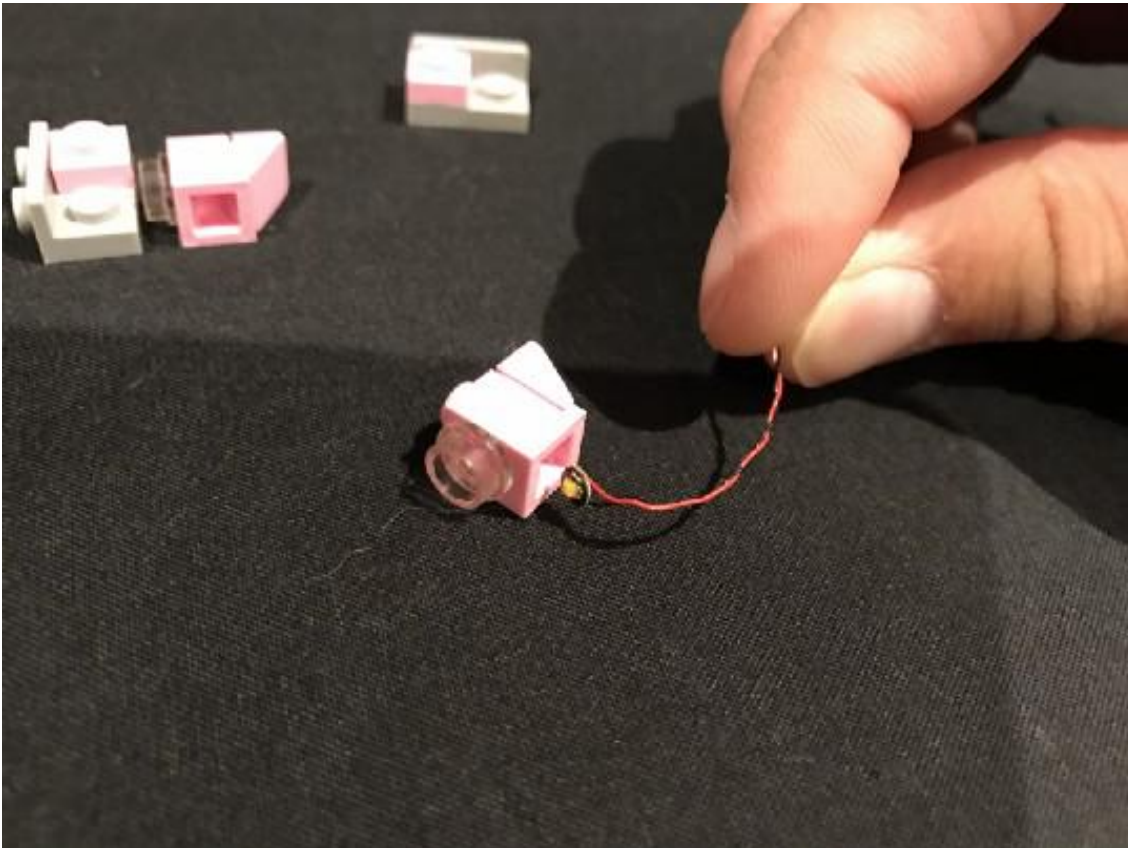


Disassemble the sections as per below:

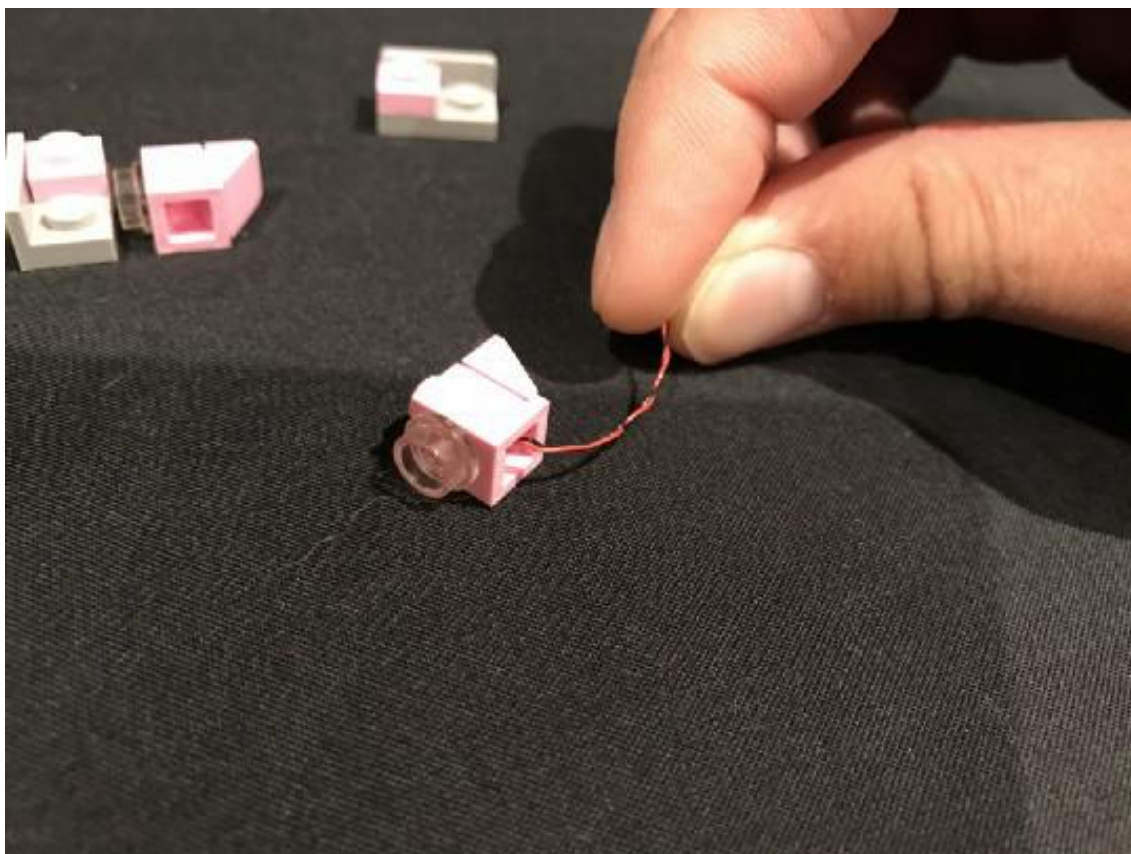




3.) Take a White 15cm Dot Light and then thread the LED up through the bottom of the pink brick ensuring the LED component is facing toward the front.

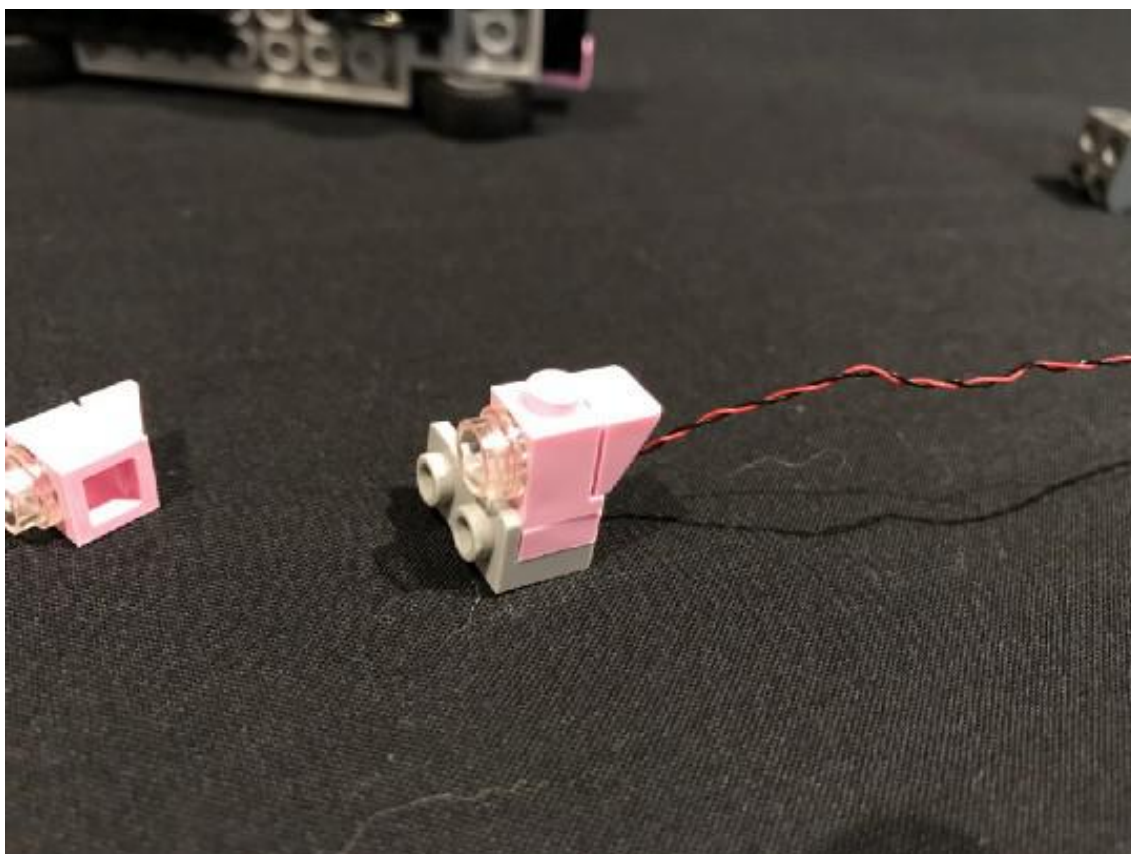


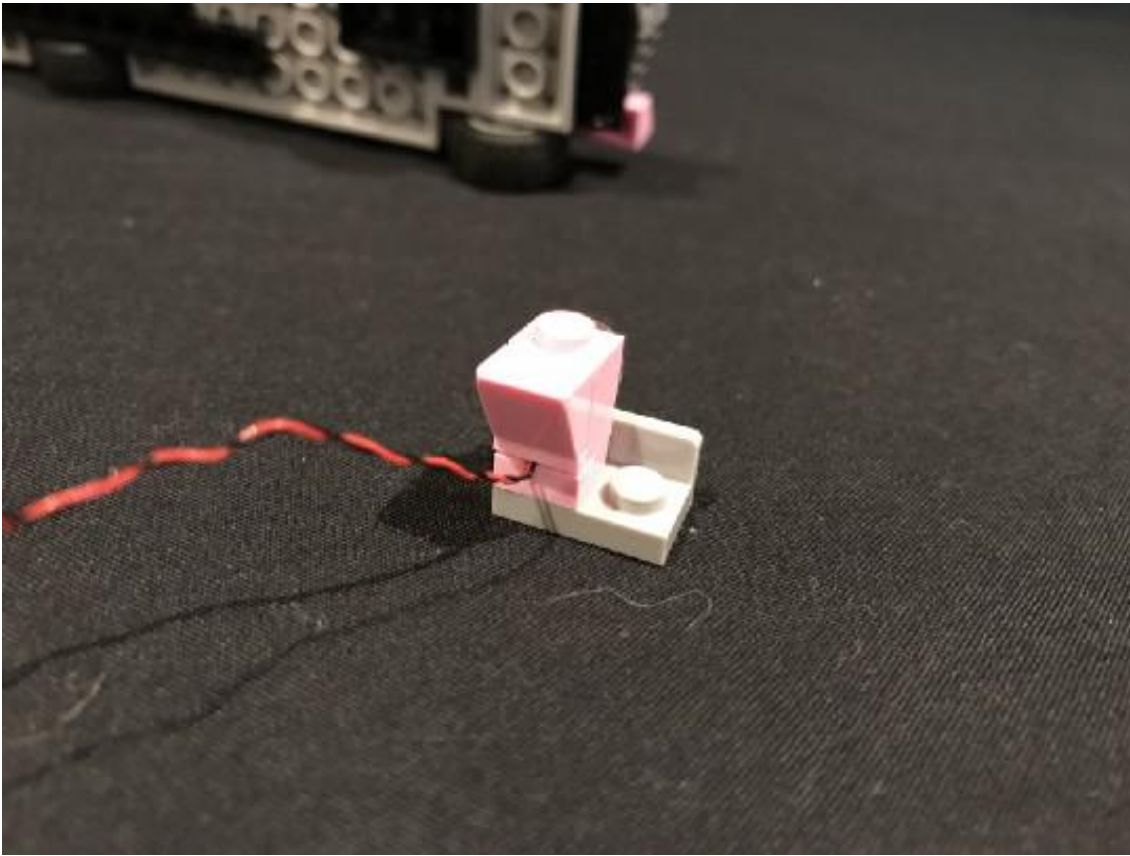




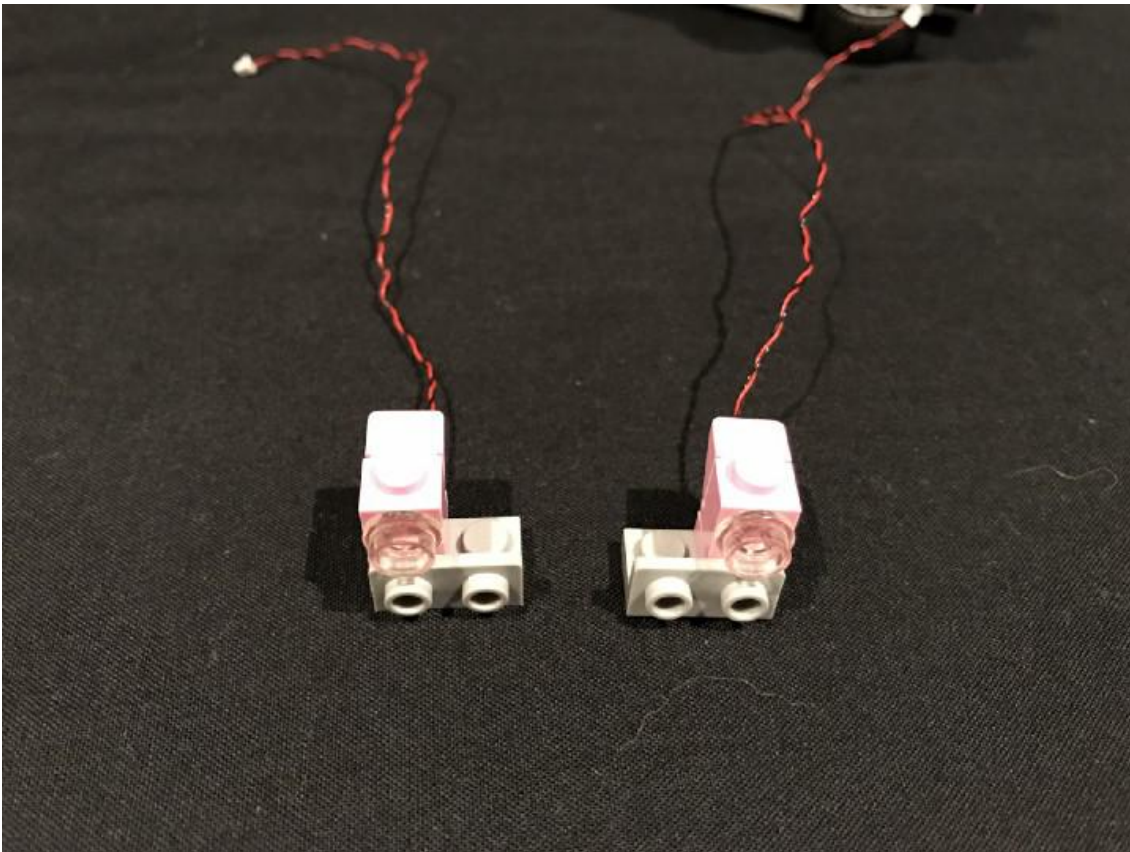
You can bend the wire in a hook angle so that the LED stays in place

Connect the base section back securing the cable in place.

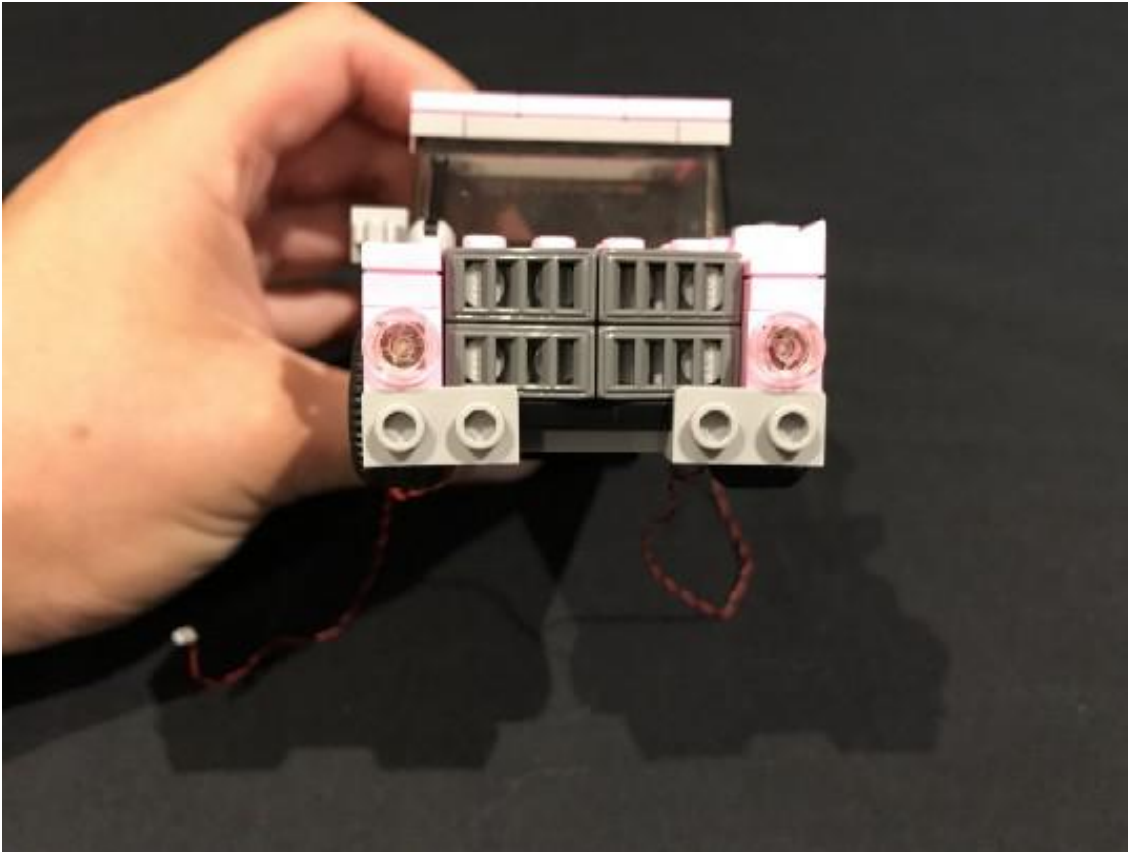




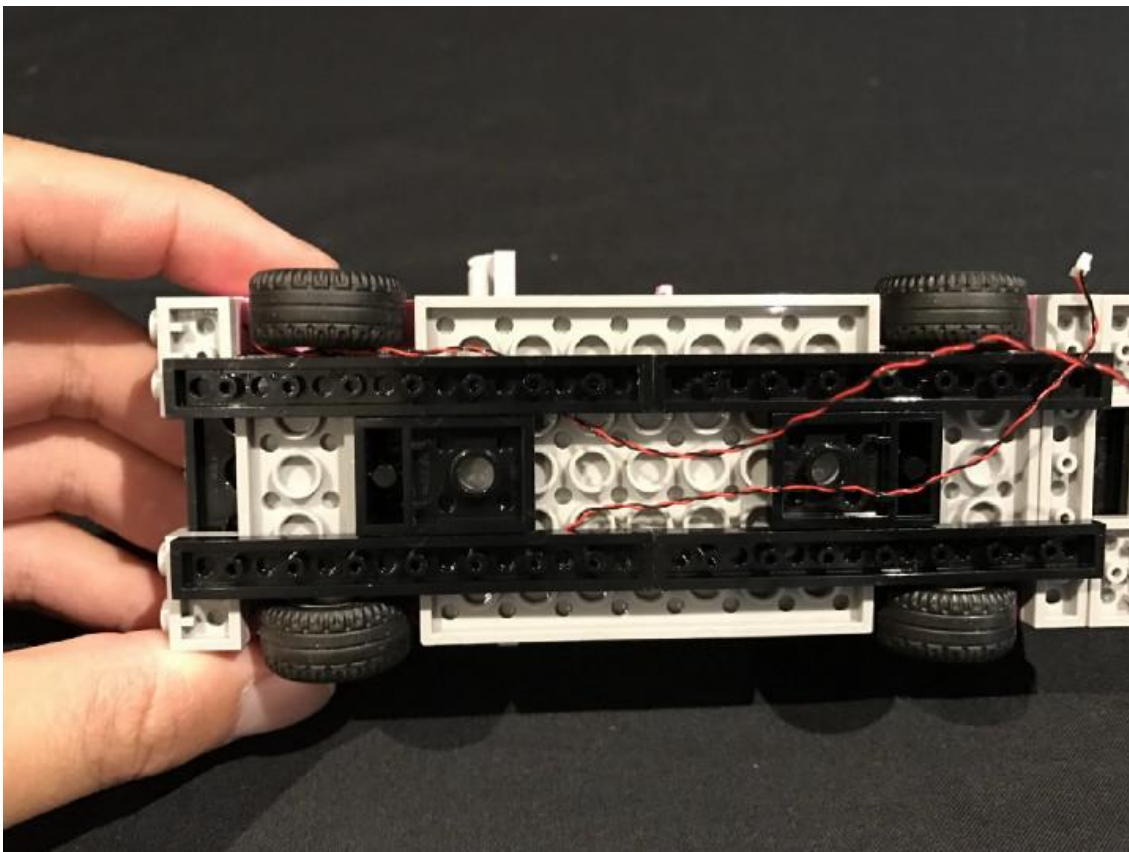
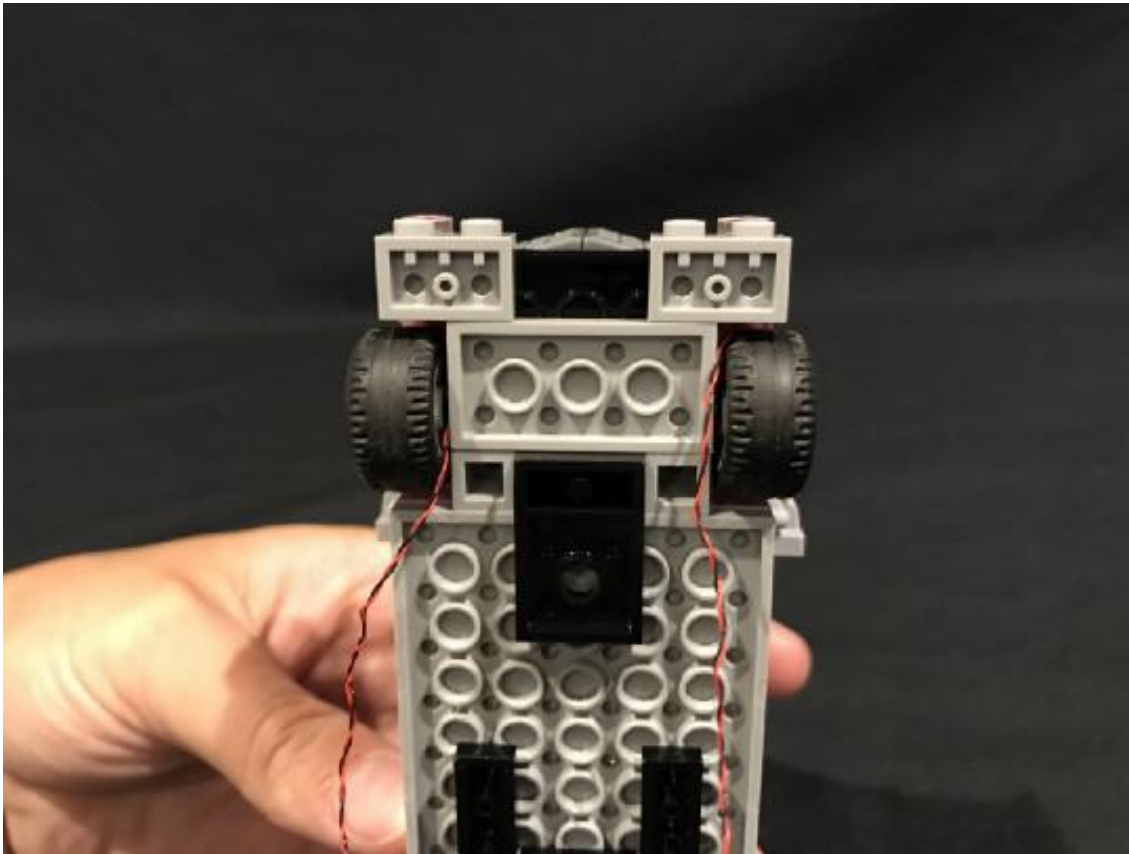
Repeat this step to install another White 15cm Dot Light to the second headlight section.



4.) Reconnect both headlights to the front of the car ensuring cables are face toward the middle of the car, then reconnect the two black 1x8 plates as well as the rego plate we removed earlier.





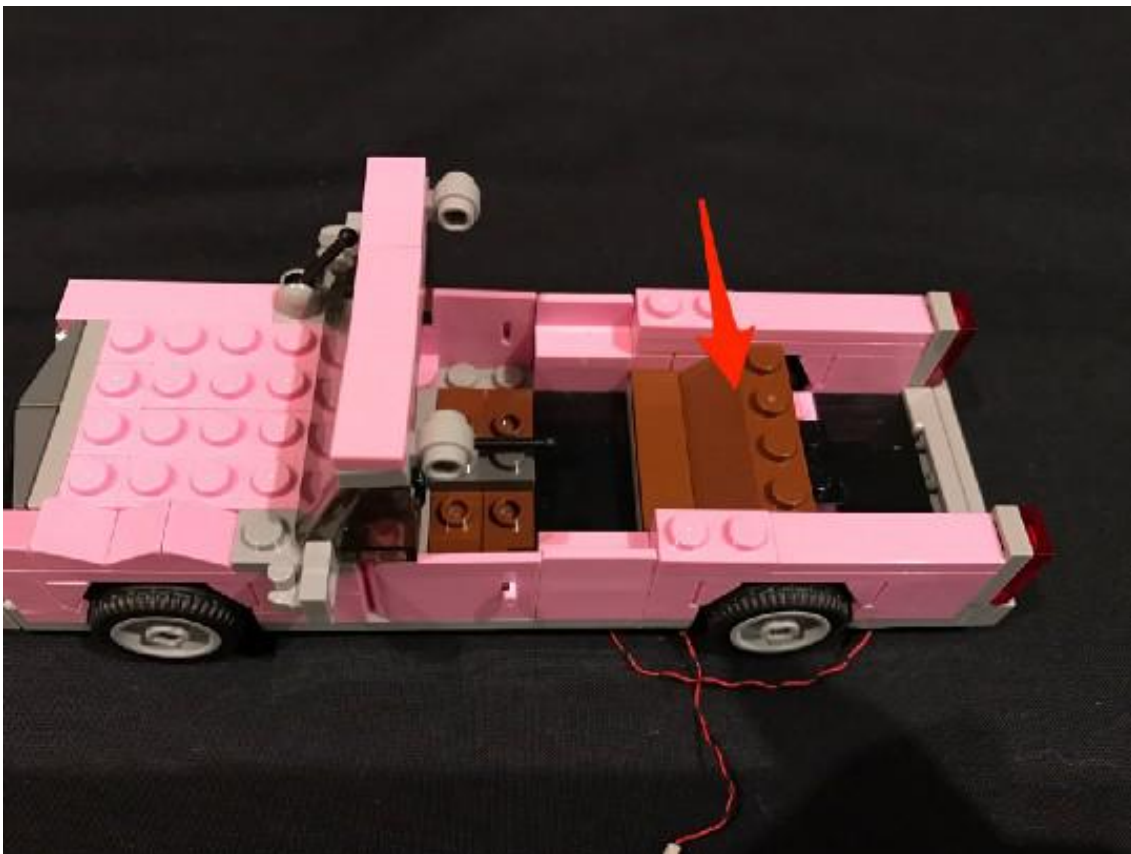


Ensure cables are threaded toward the centre

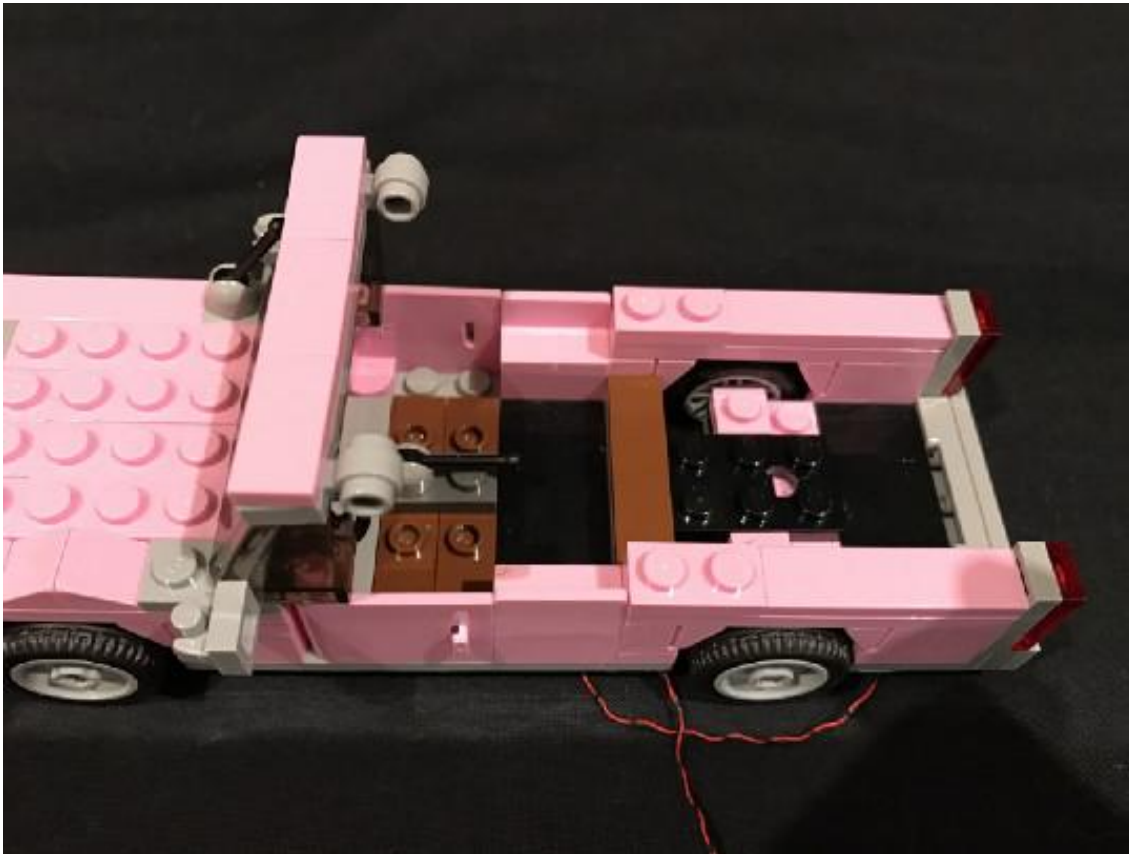


5.) Remove the roof and back window, as well as the brown brick (and 2x grey 1x1 bricks underneath) in the back of the car.



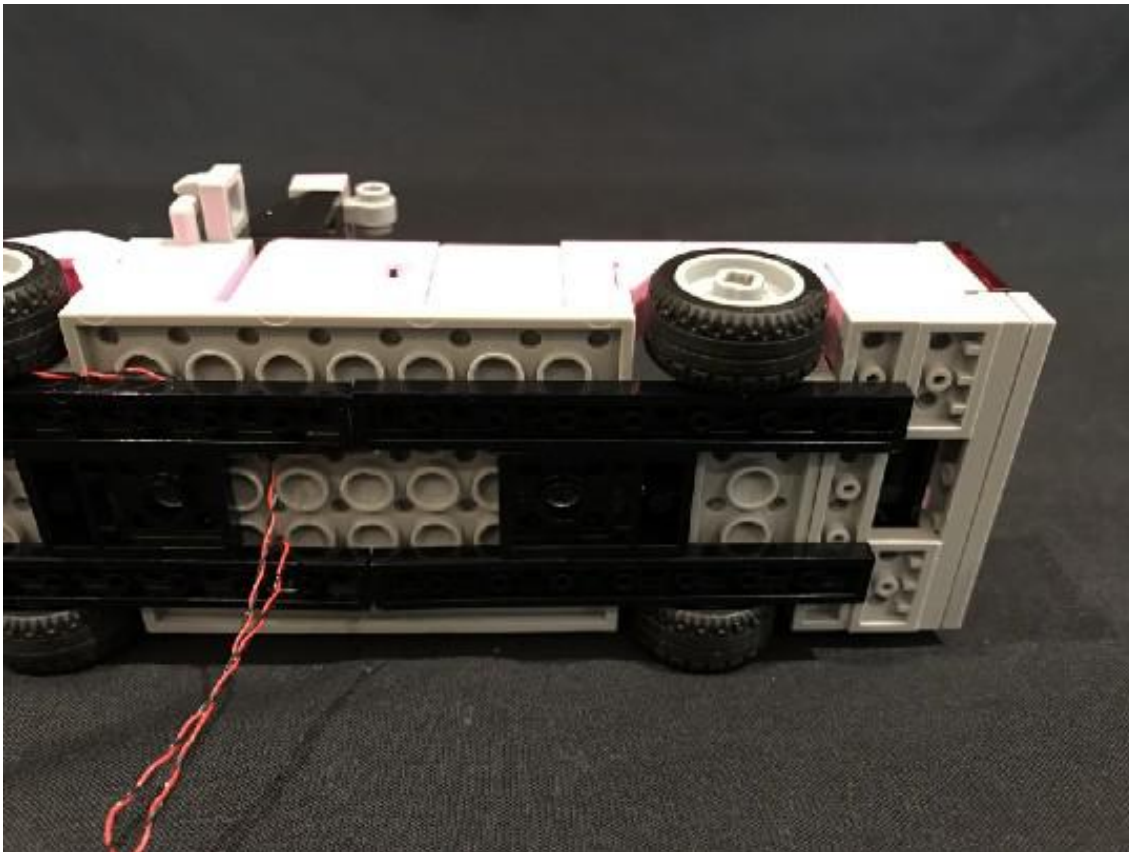


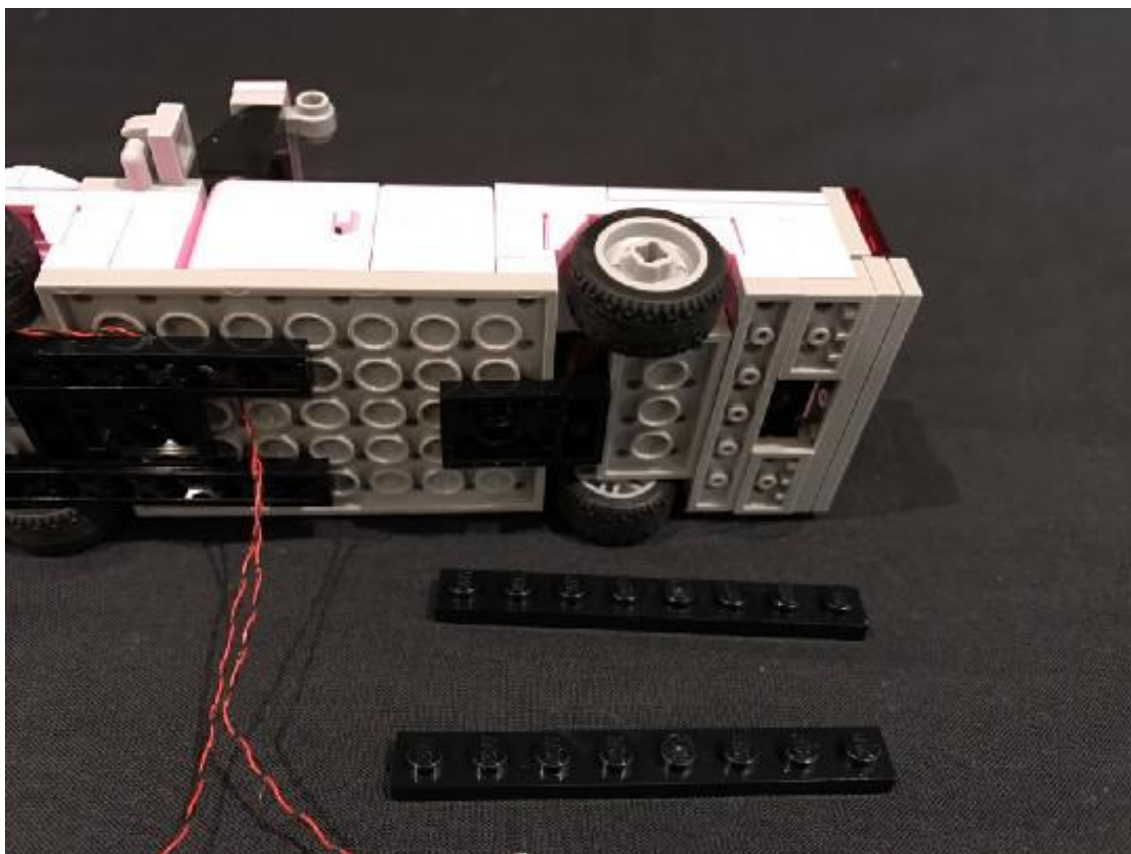




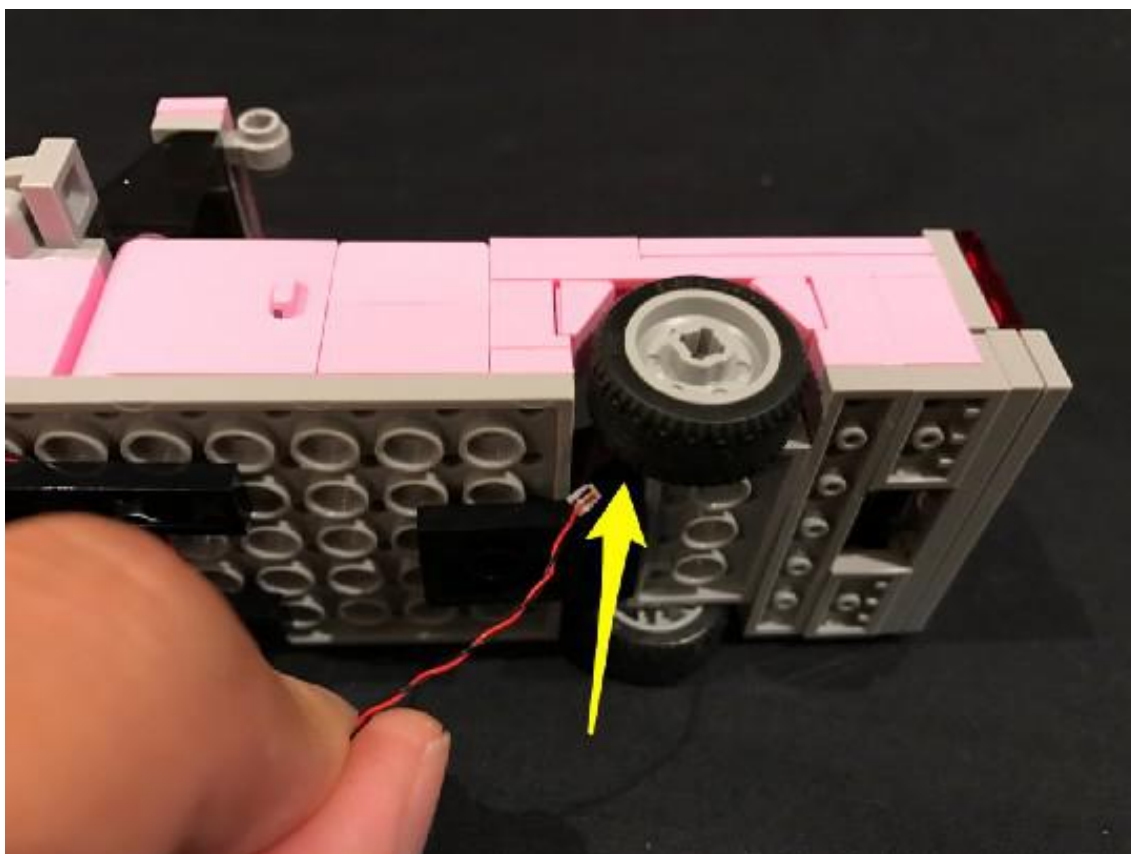
Note: We will be discarding the brown and grey pieces in order to fit the battery pack in the back of the car

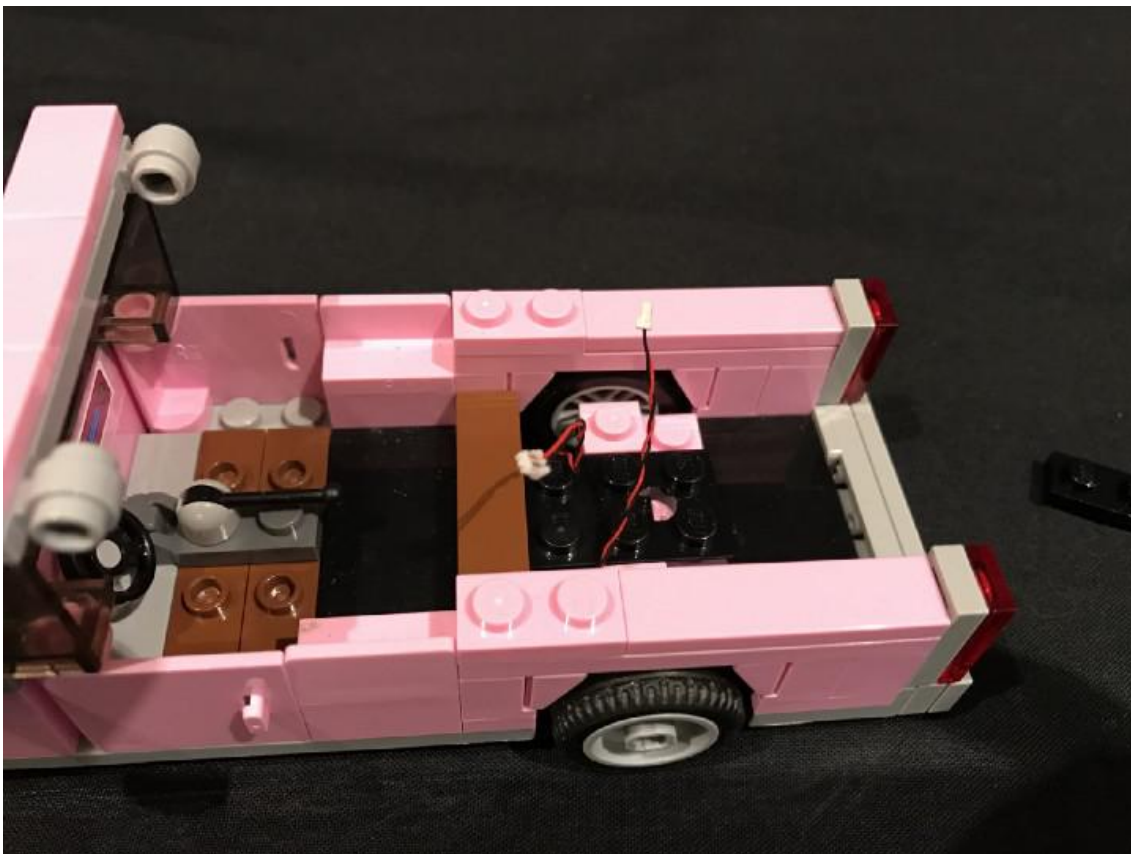
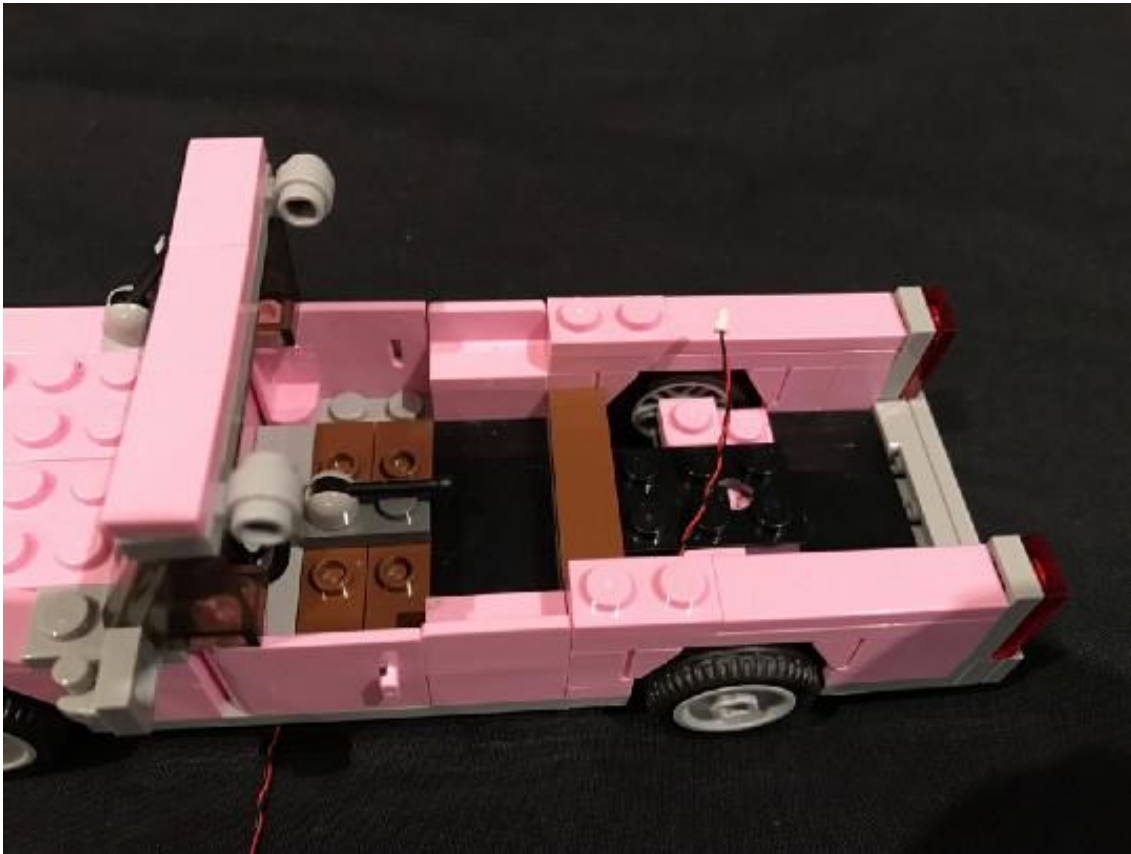
Turn the car over again and remove the two back 1x8 plates.



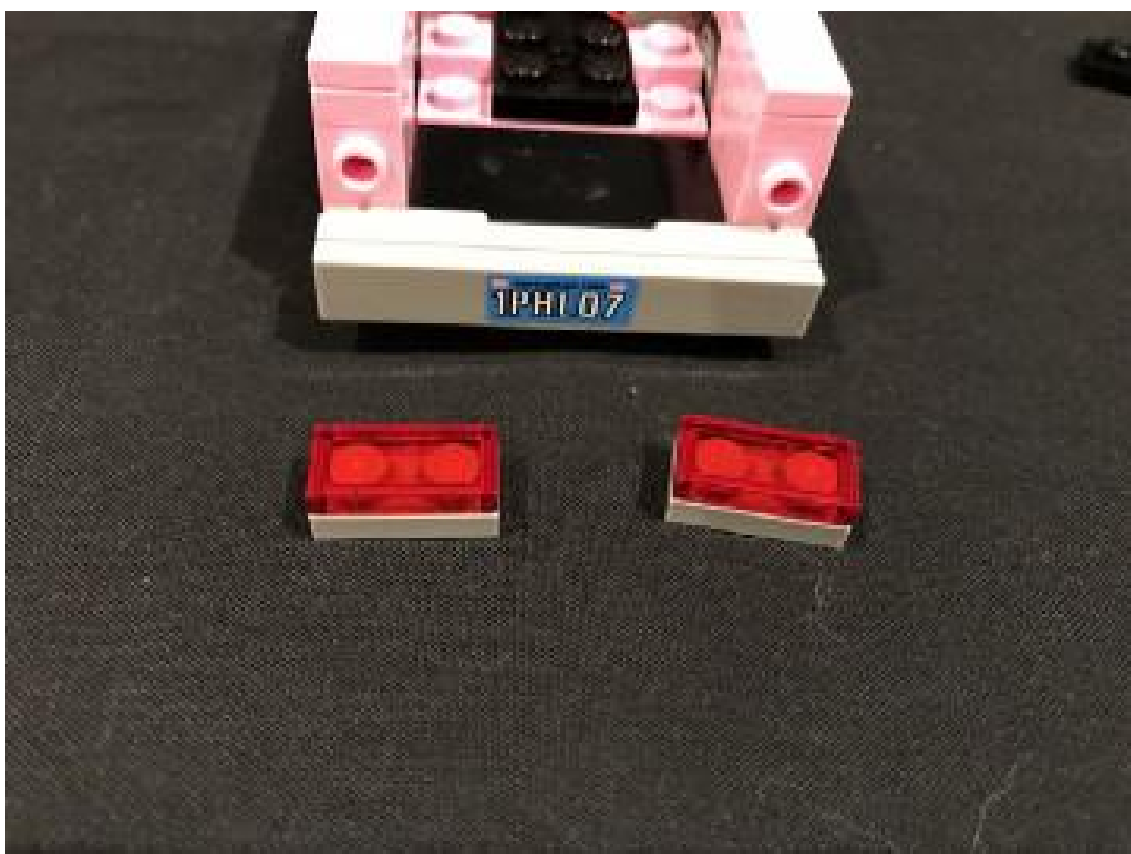
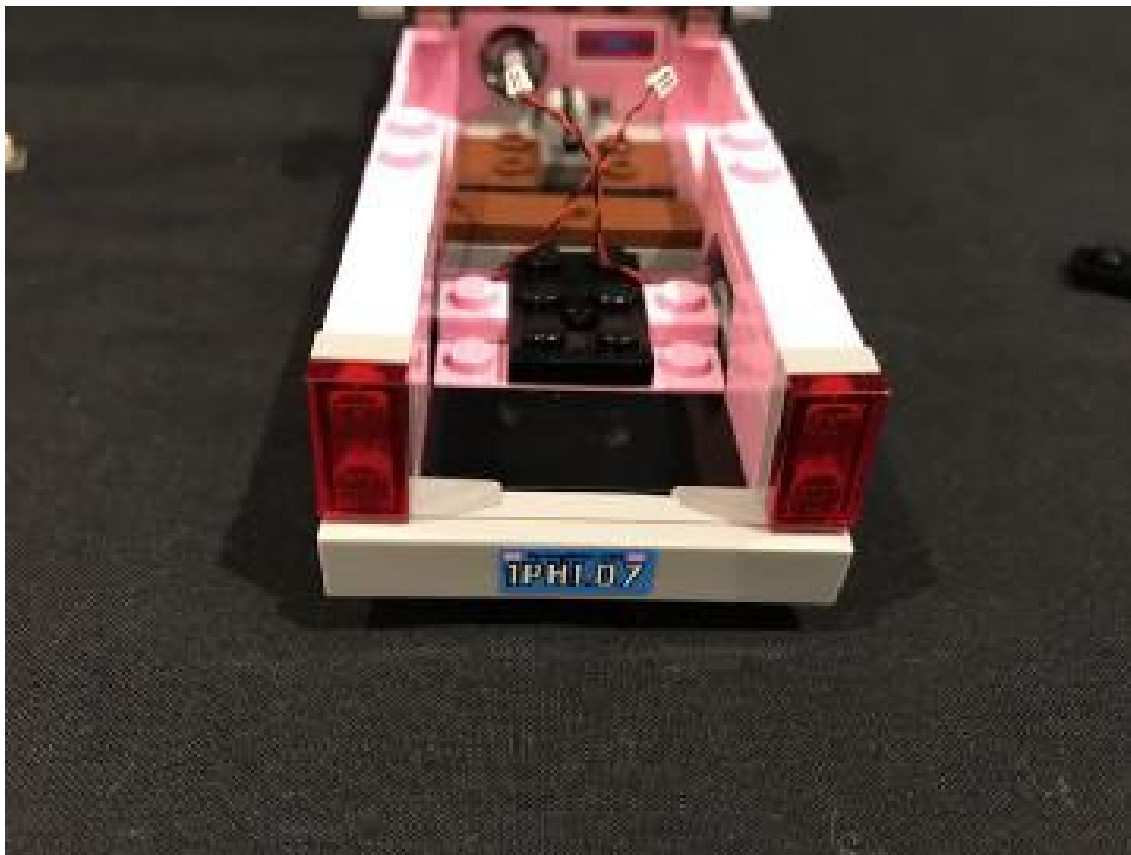


6.) Thread the two cables from the headlights up the spacing in between the wheels and then pull the cables up from the other side of the car.

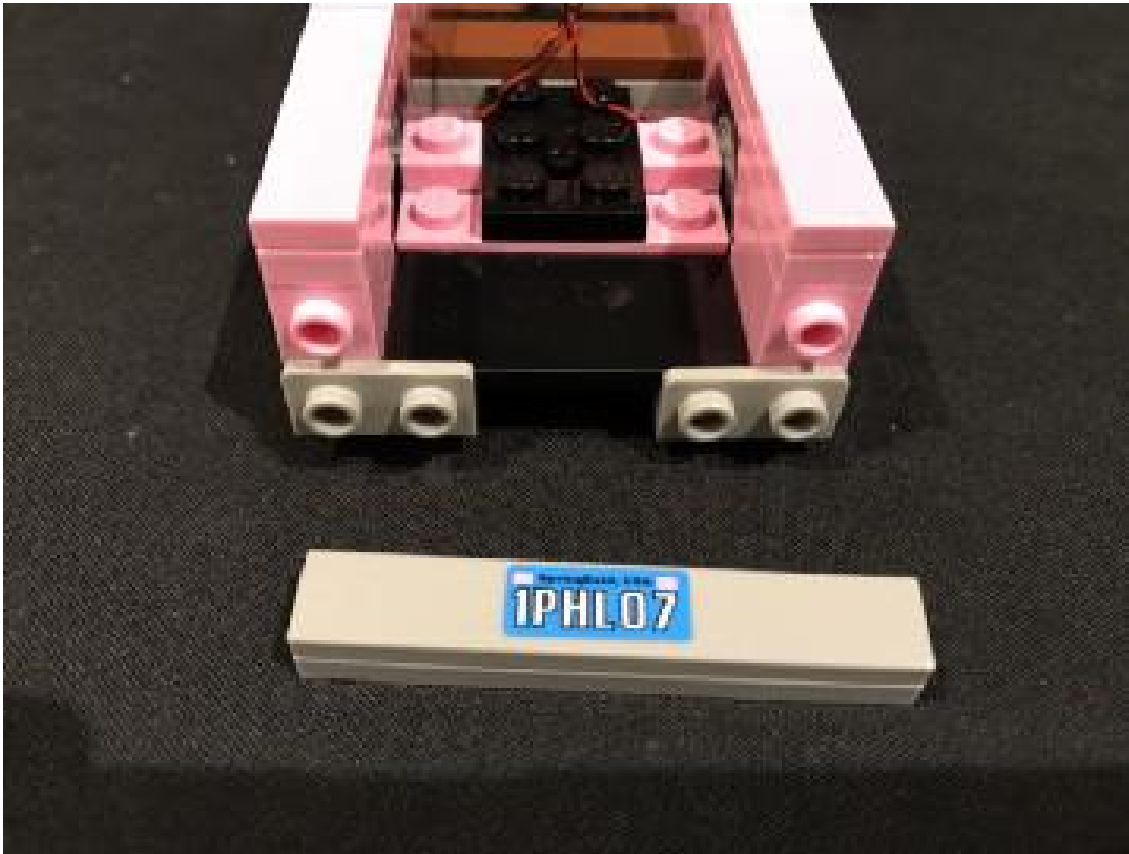




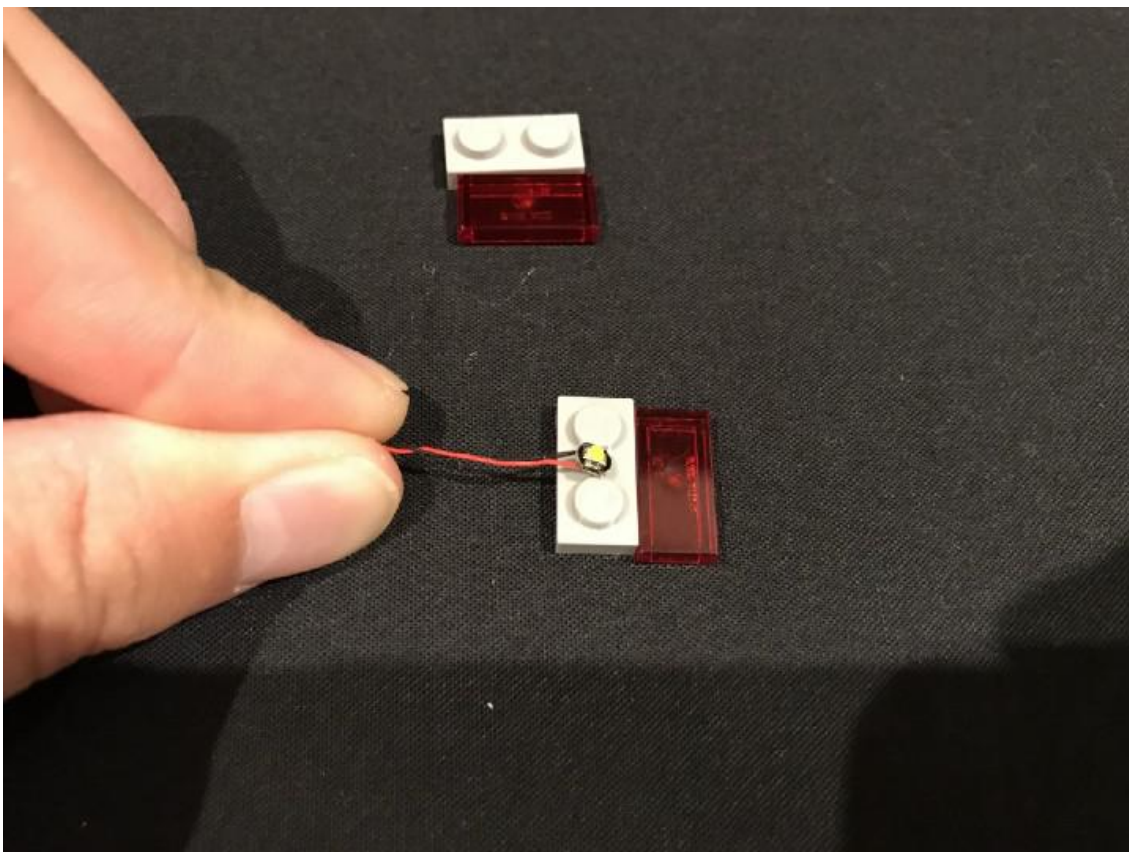
7.) Remove the two tail light sections as well as the rego plate from the back.



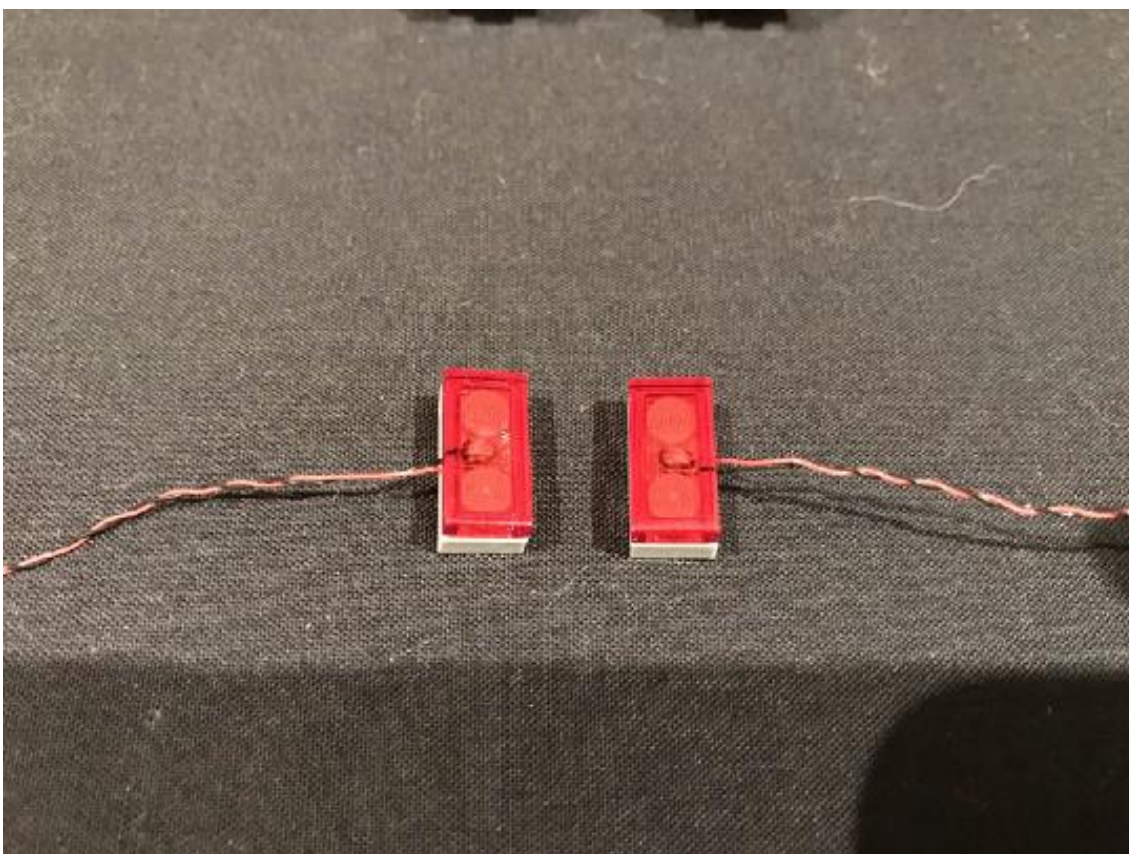
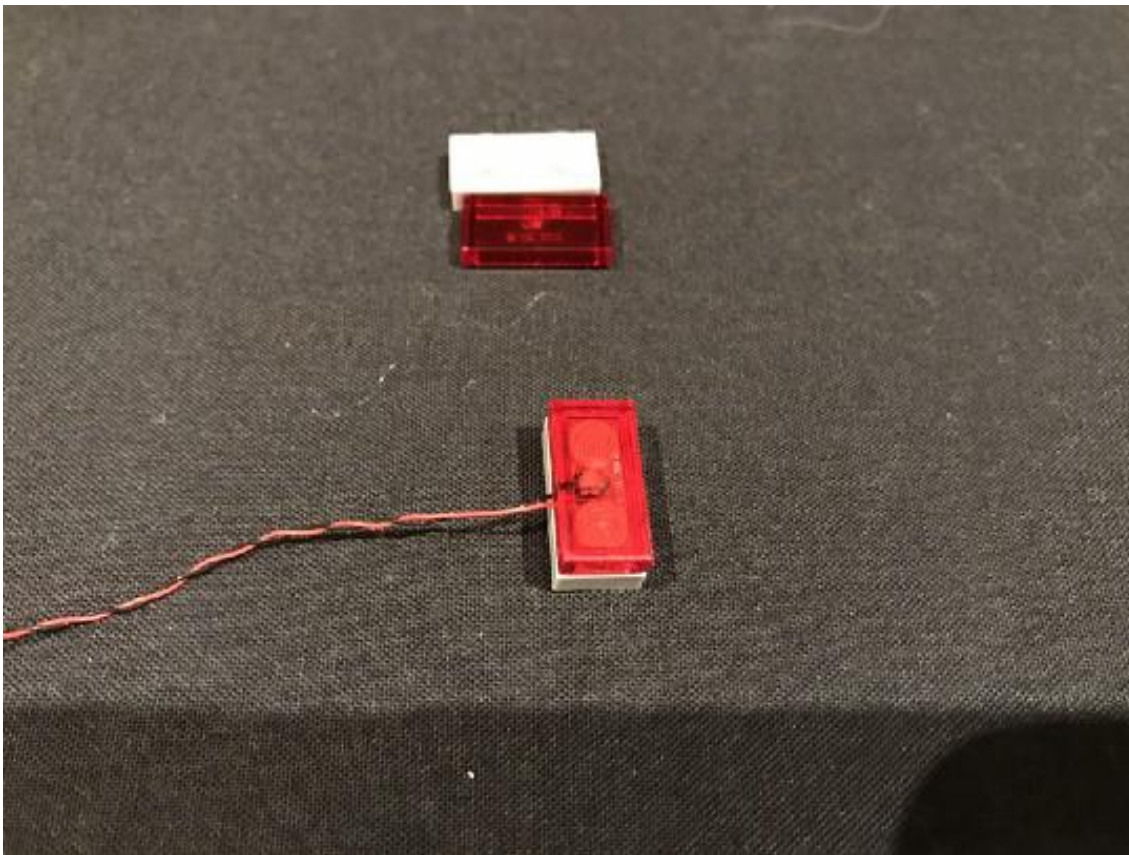




Remove the trans red plate and then take a White 15cm Dot Light and then place it in the centre of the studs as per below.

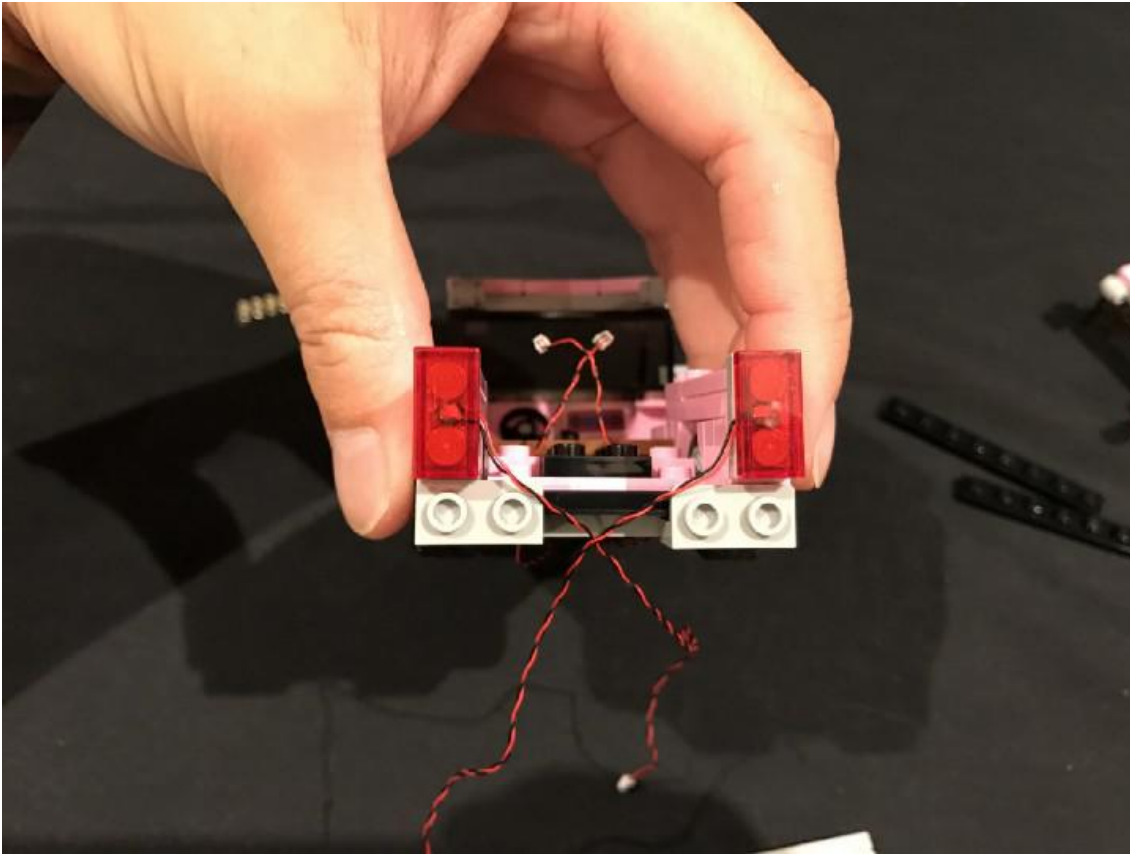


Reconnect the trans red plate to secure the Dot Light in place and then repeat this process to install another White 15 cm Dot Light to the other tail light.

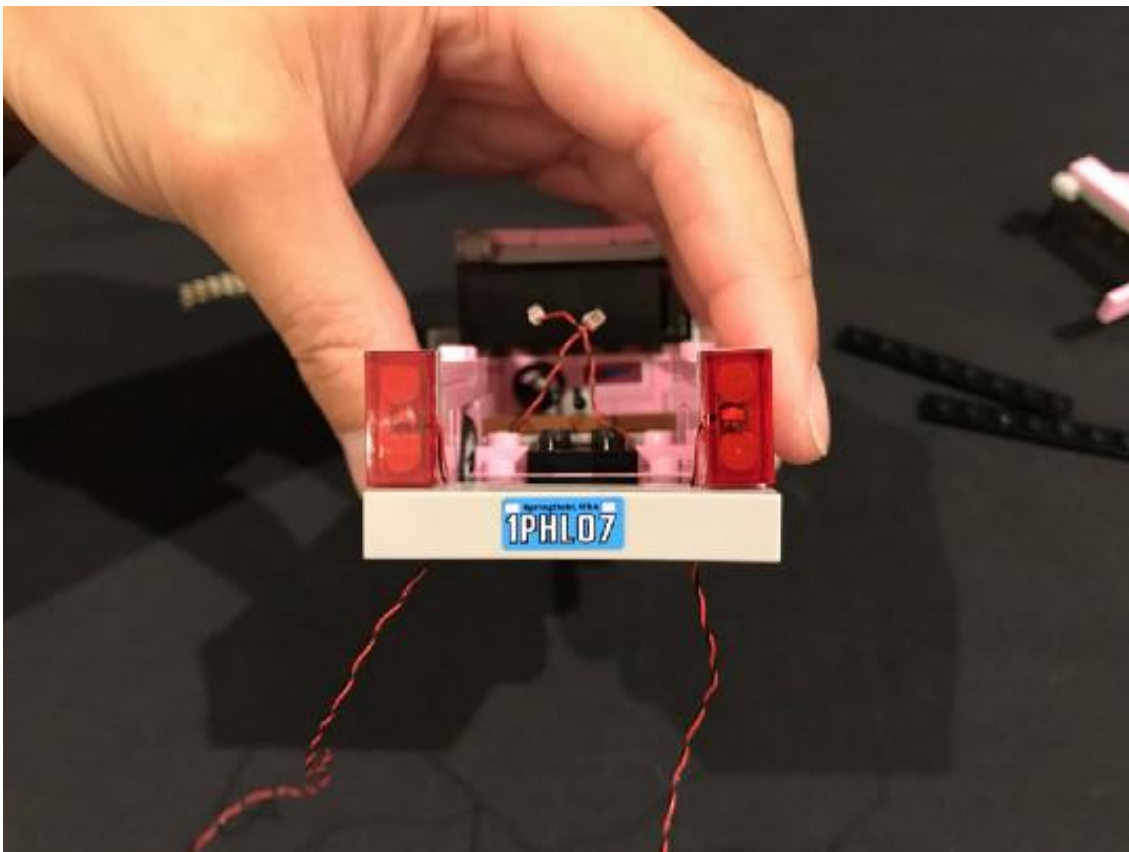
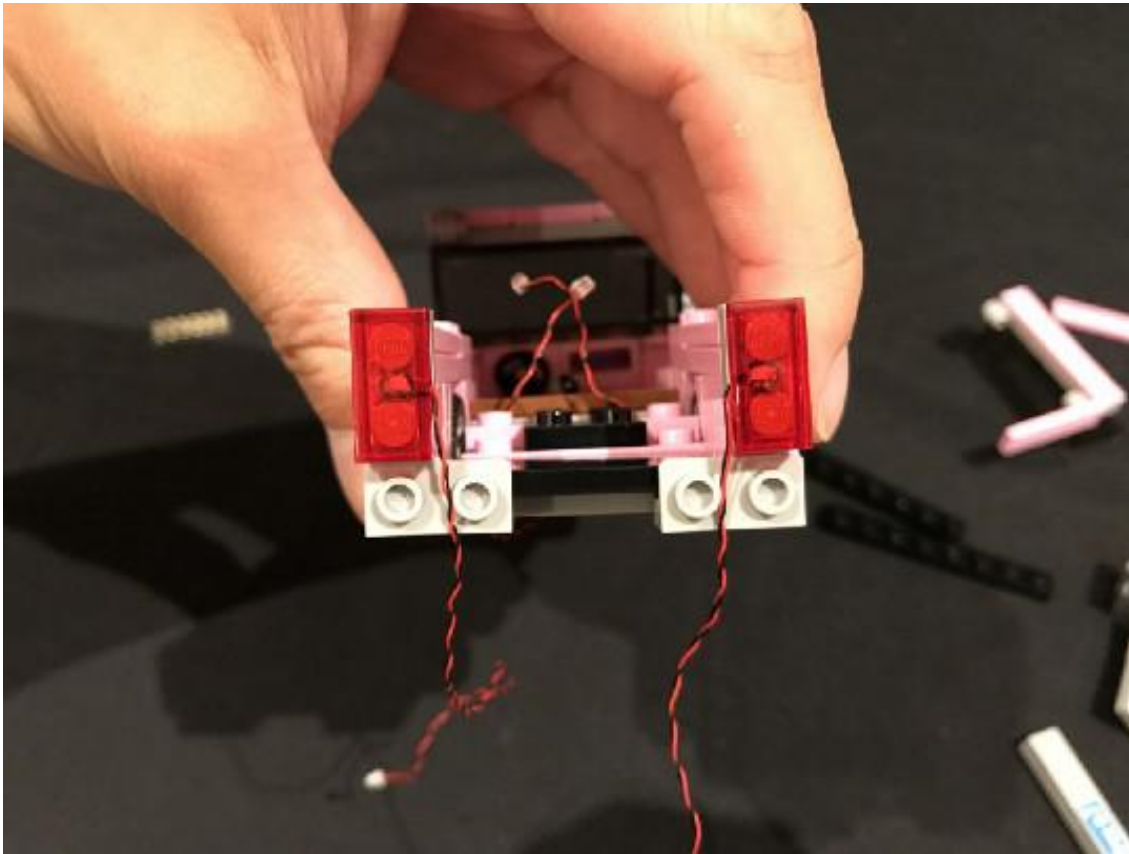




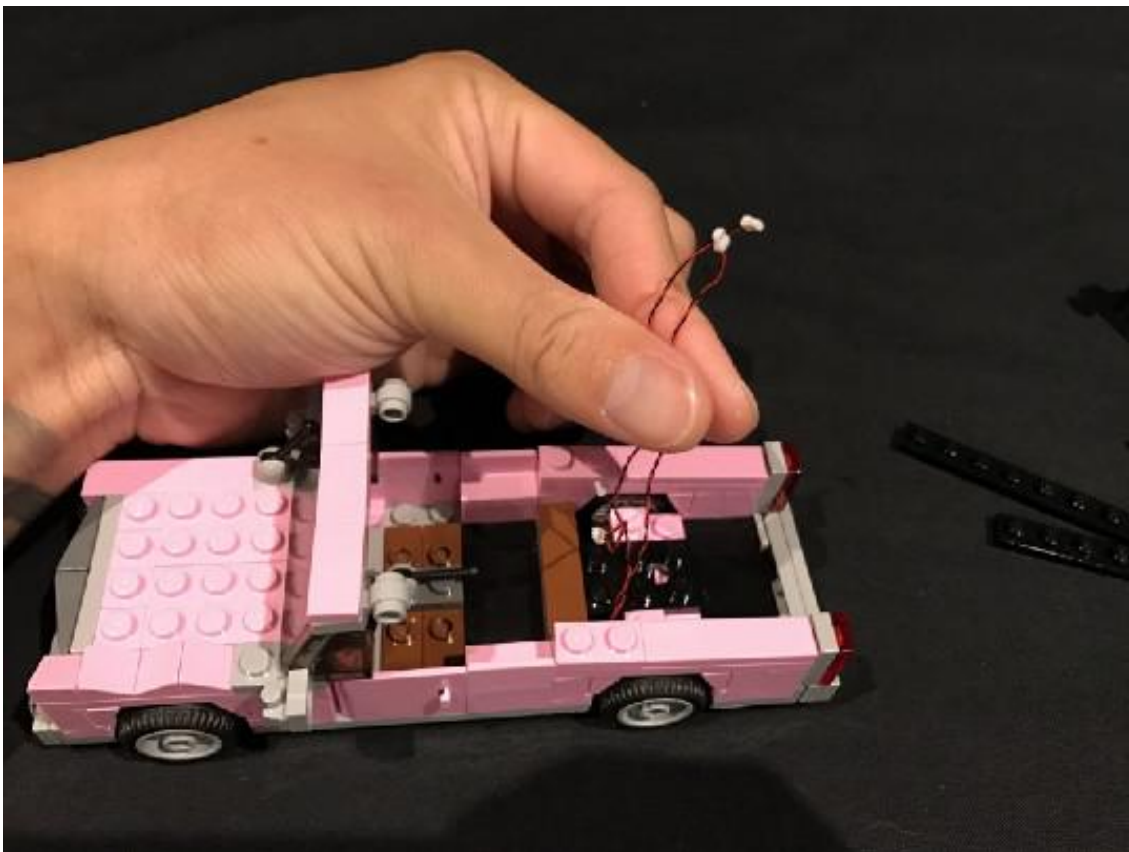
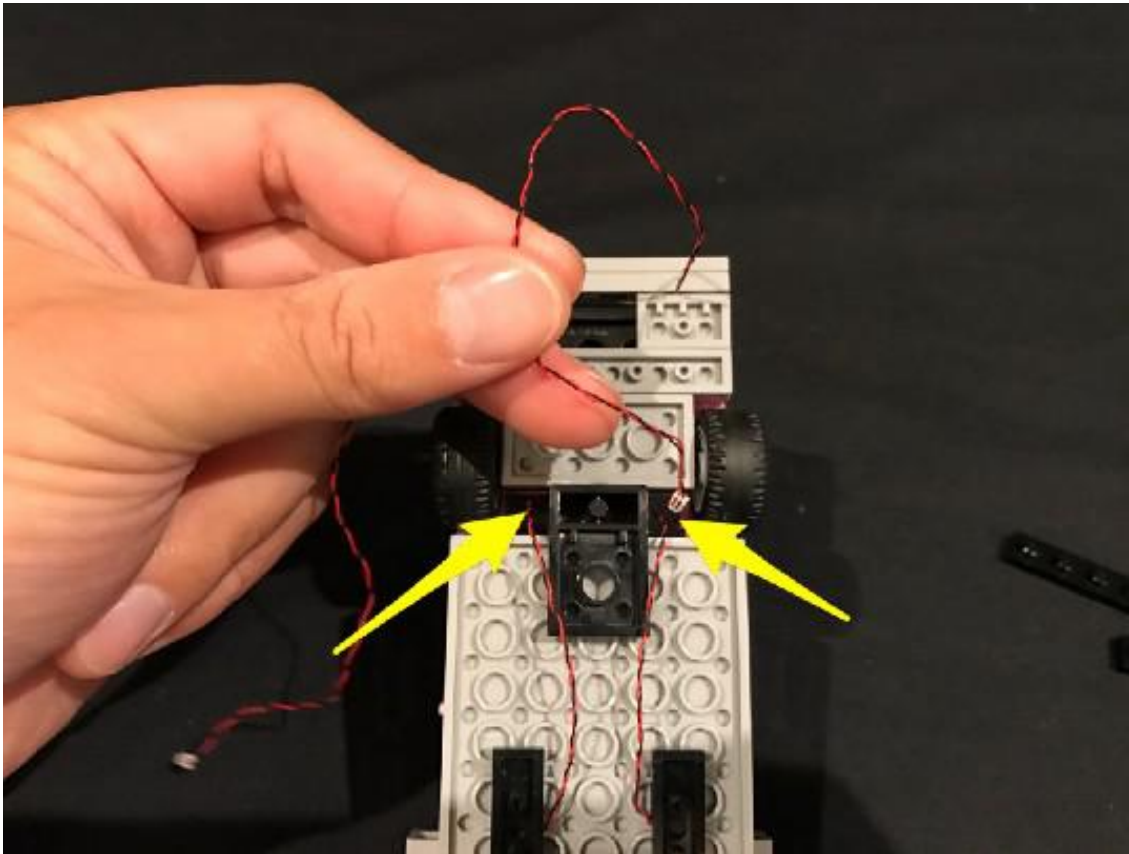
8.) Reconnect both tail light sections to the back of the car ensuring cables are facing toward the centre.



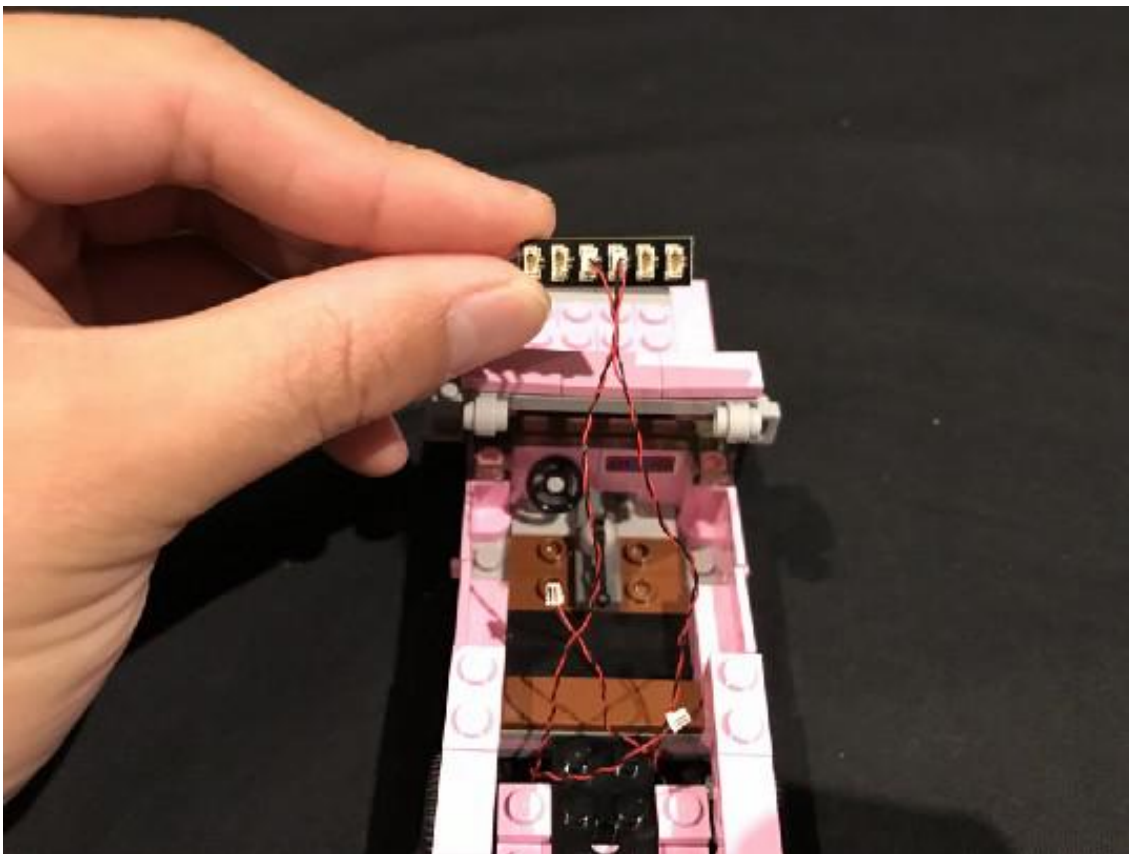
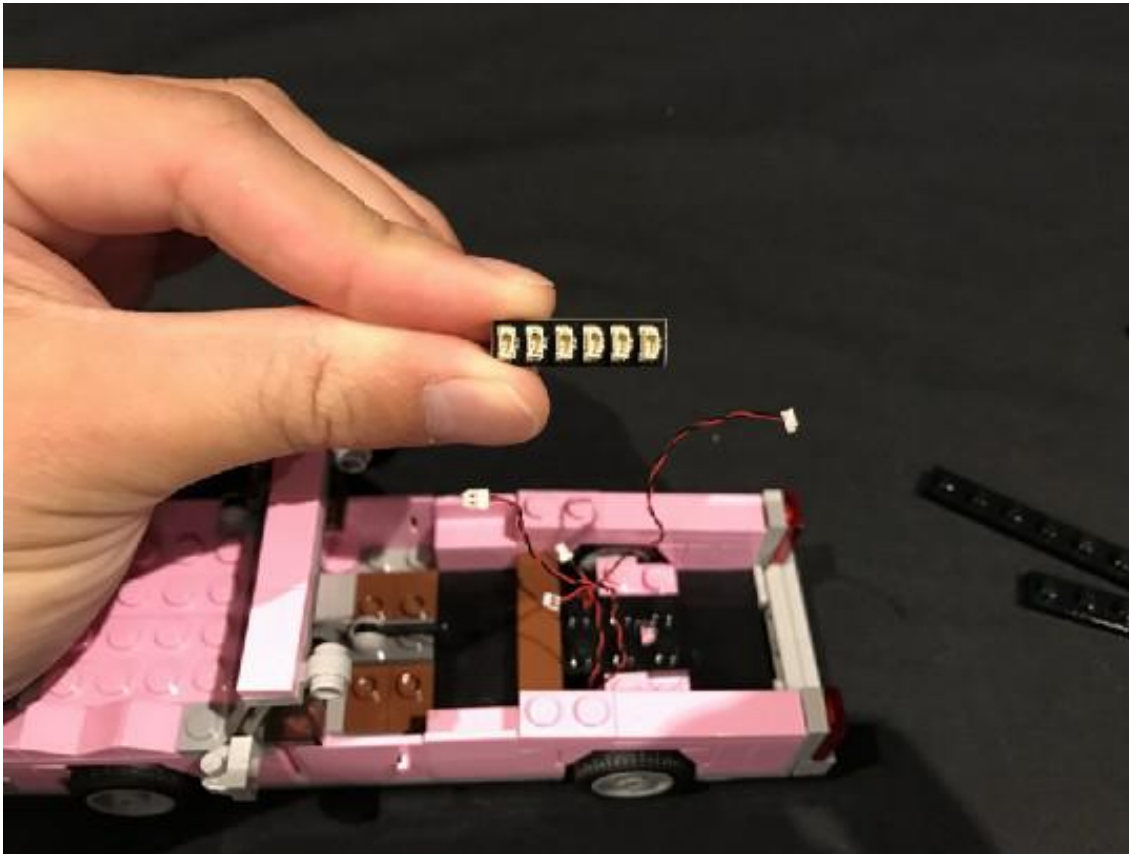
Lay the cables in between the grey studs below before reconnecting the rego plate over the top.



Turn the car over and then thread the two cables from the tail lights up the spacing in between the wheels. Pull the cables up from the other side.

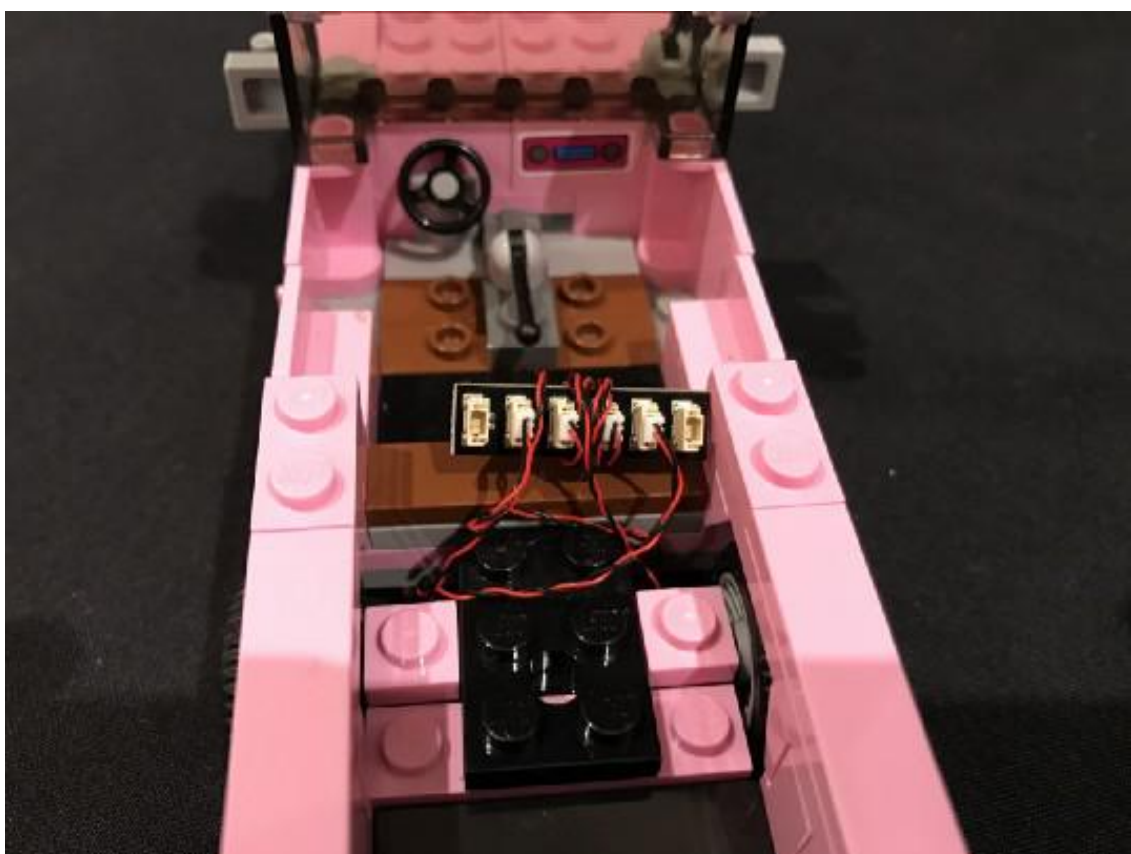
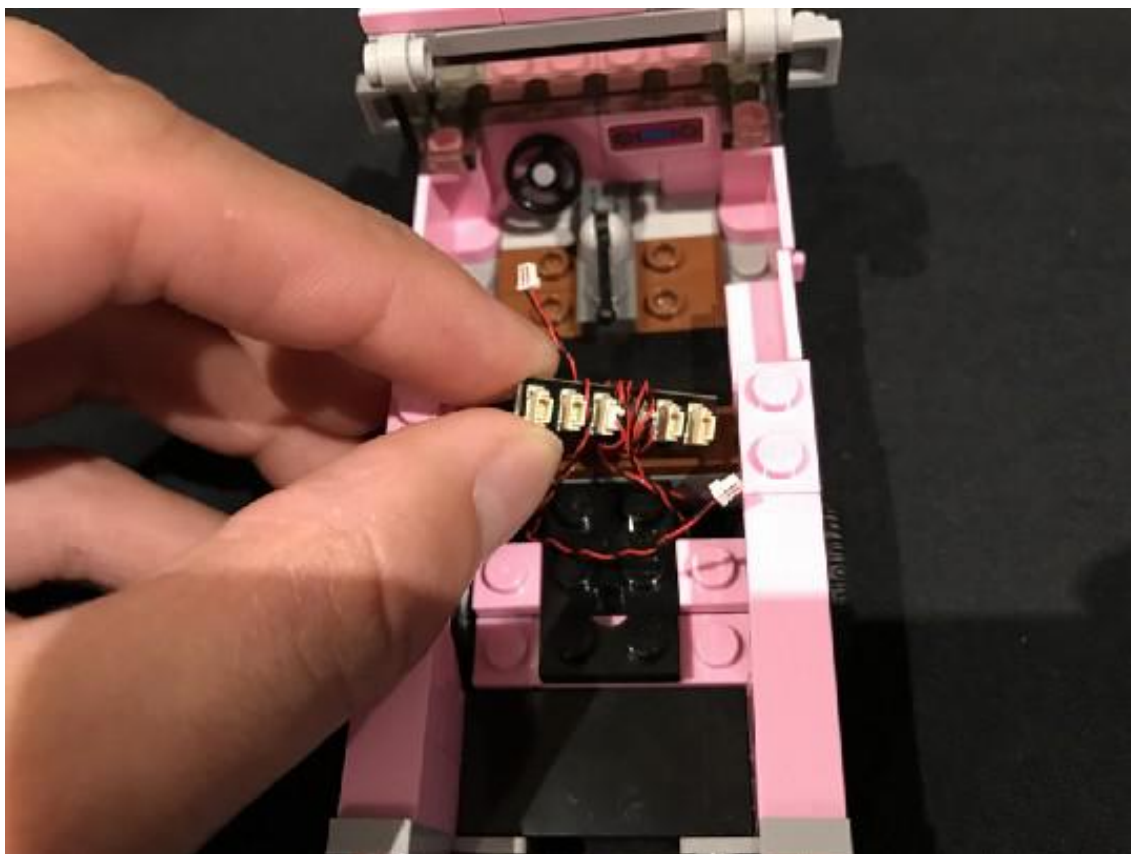


9.) Take a 6-Port Expansion Board and then connect the two cables from the tail lights into the middle ports.

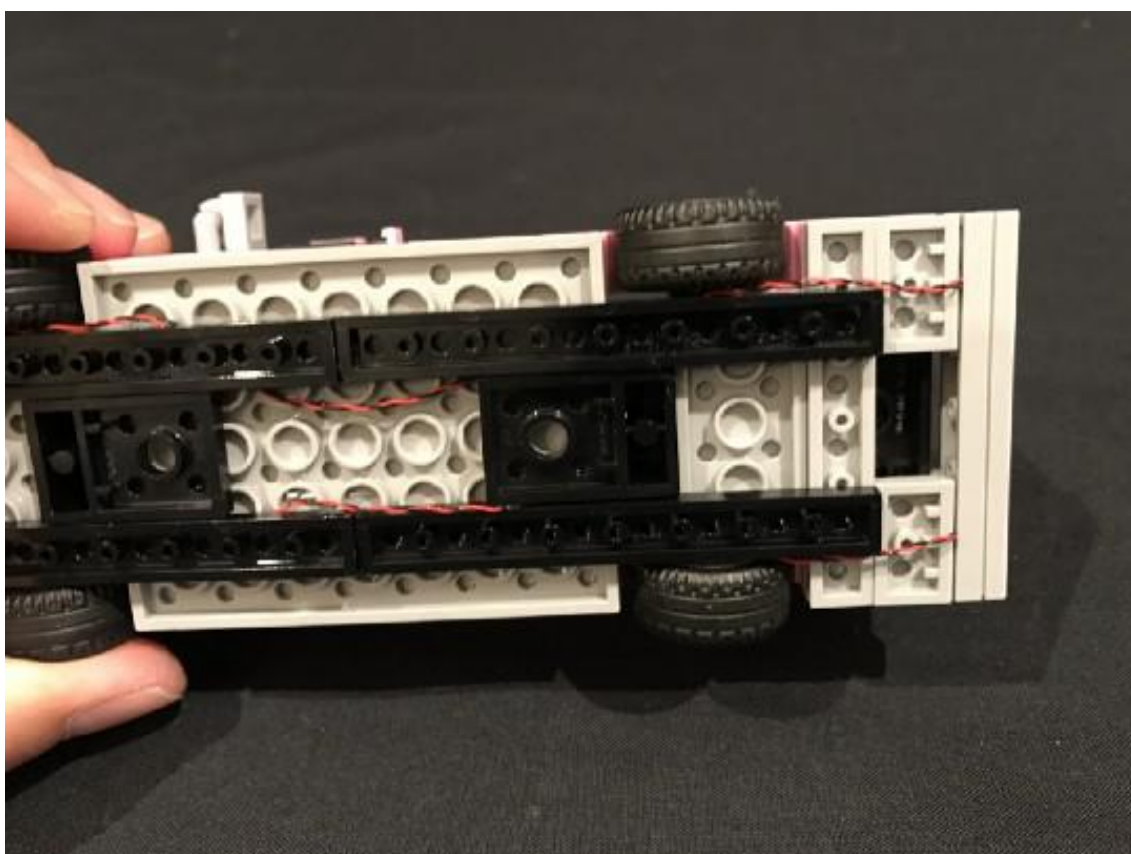
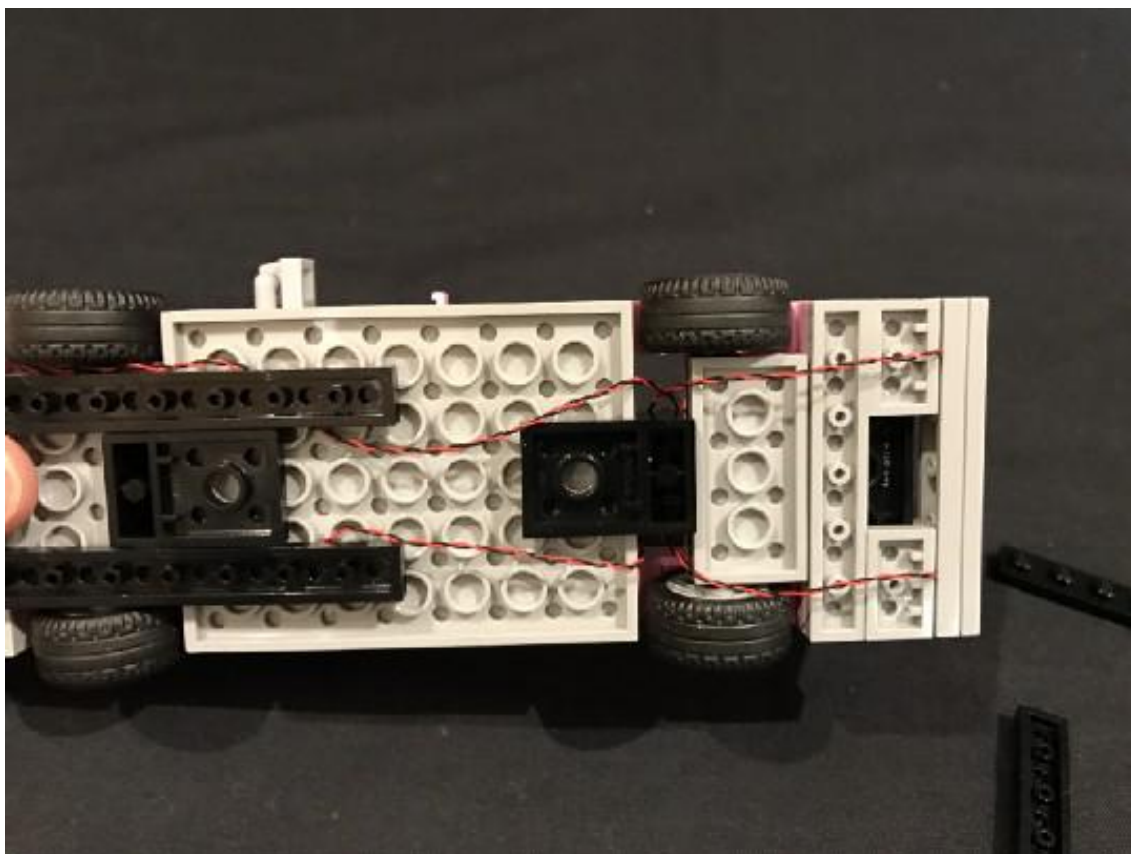


Wind the cables around the expansion board to eliminate excess cabling then connect the two cables from the headlights to the next ports.



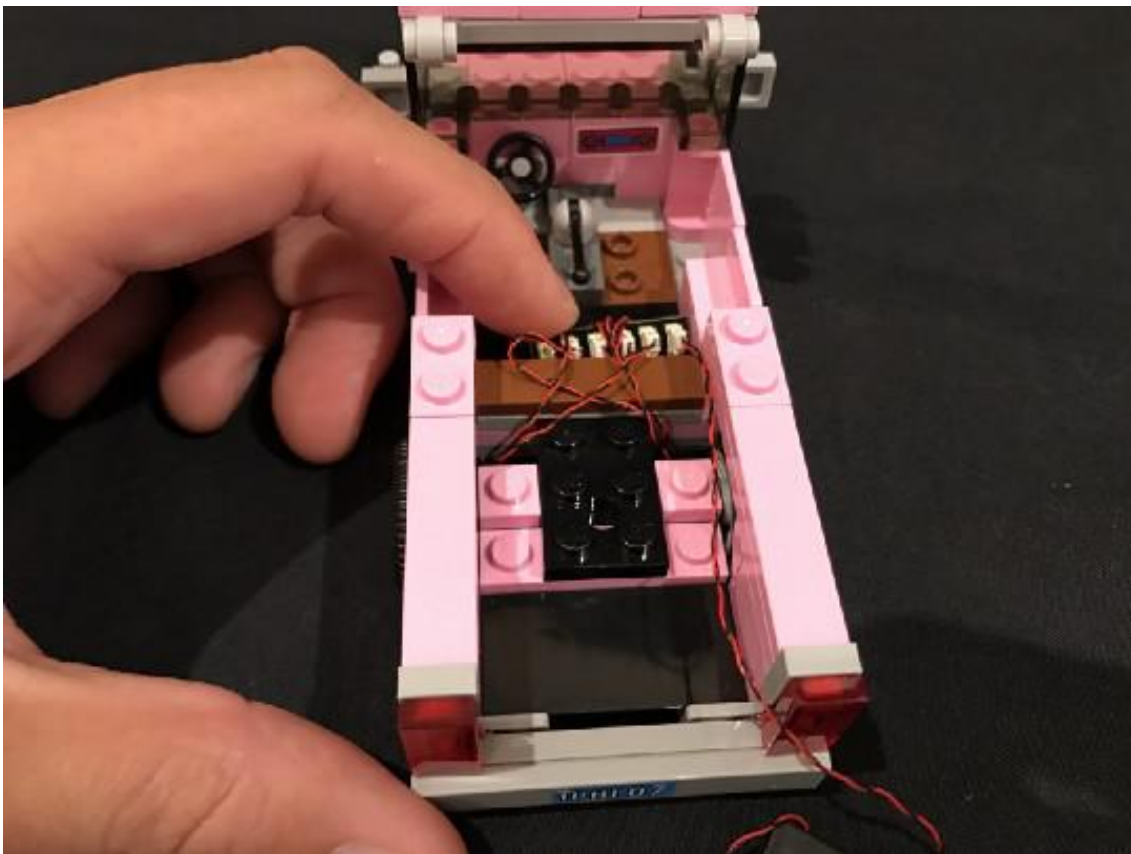
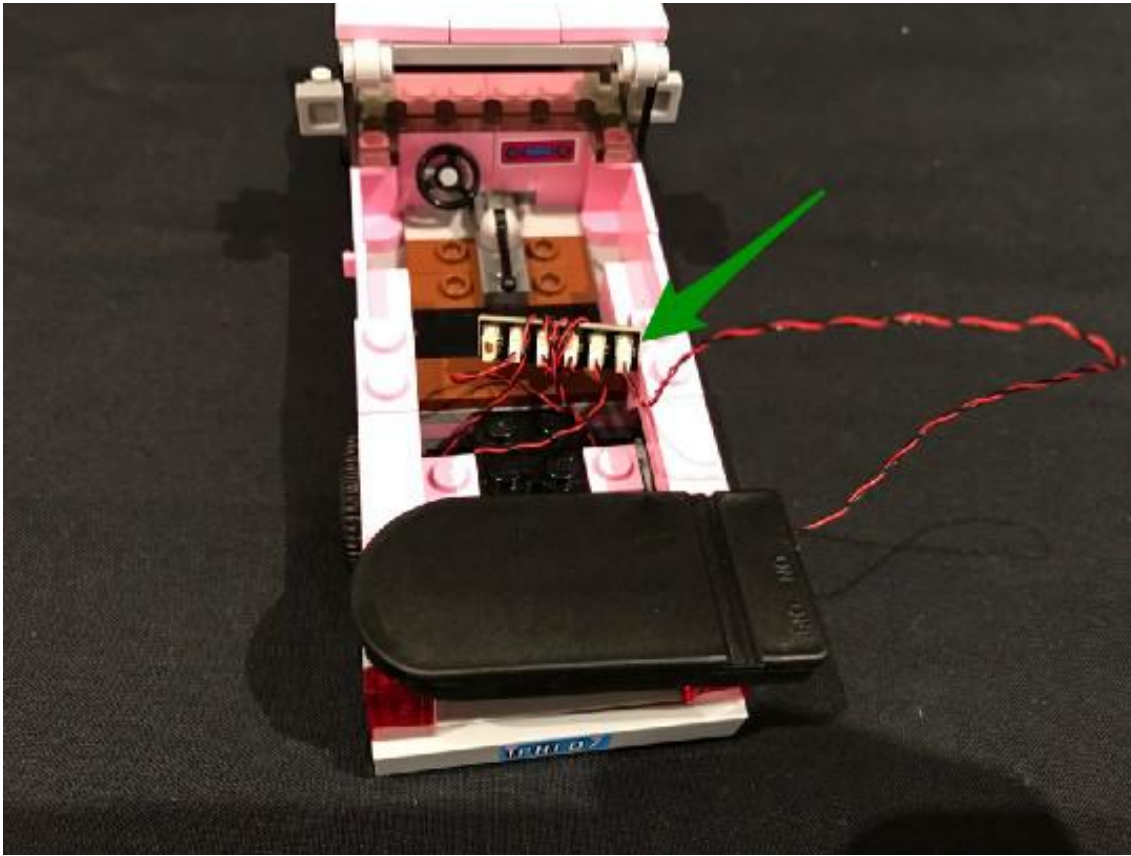


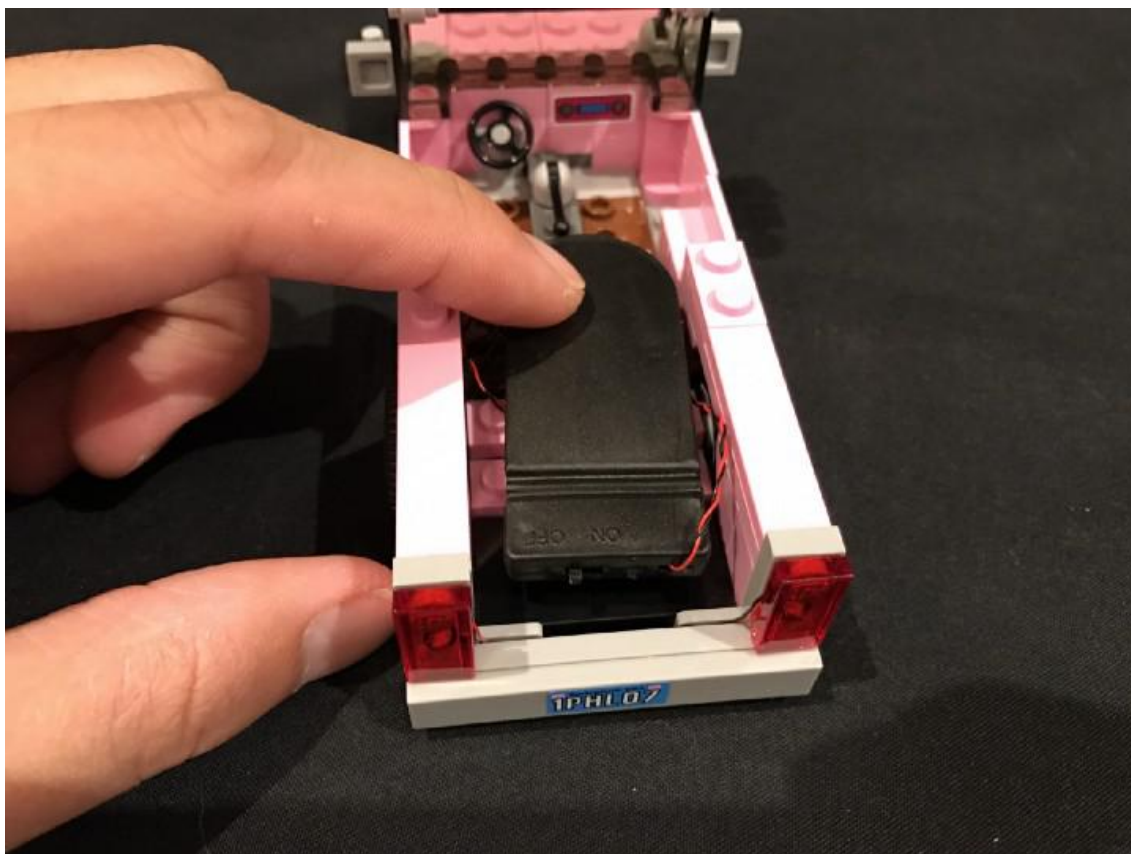
Reconnect the two black 1x8 plate at the bottom of the car.



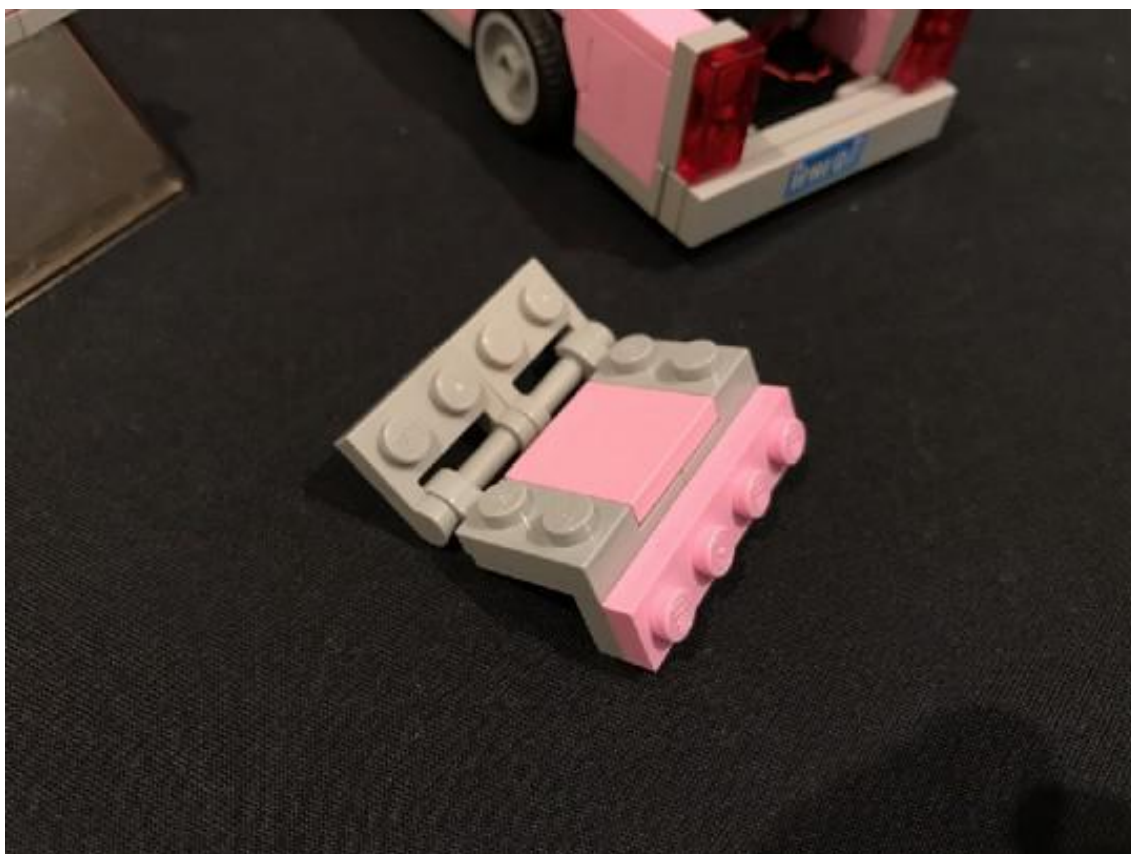
11.) Take the Flat Battery Pack and then insert 2x CR2032 batteries to it. Place the Expansion board over to the back seat so that you can then place the battery pack flat on top. Ensure the on/off switch is facing the back of the car.

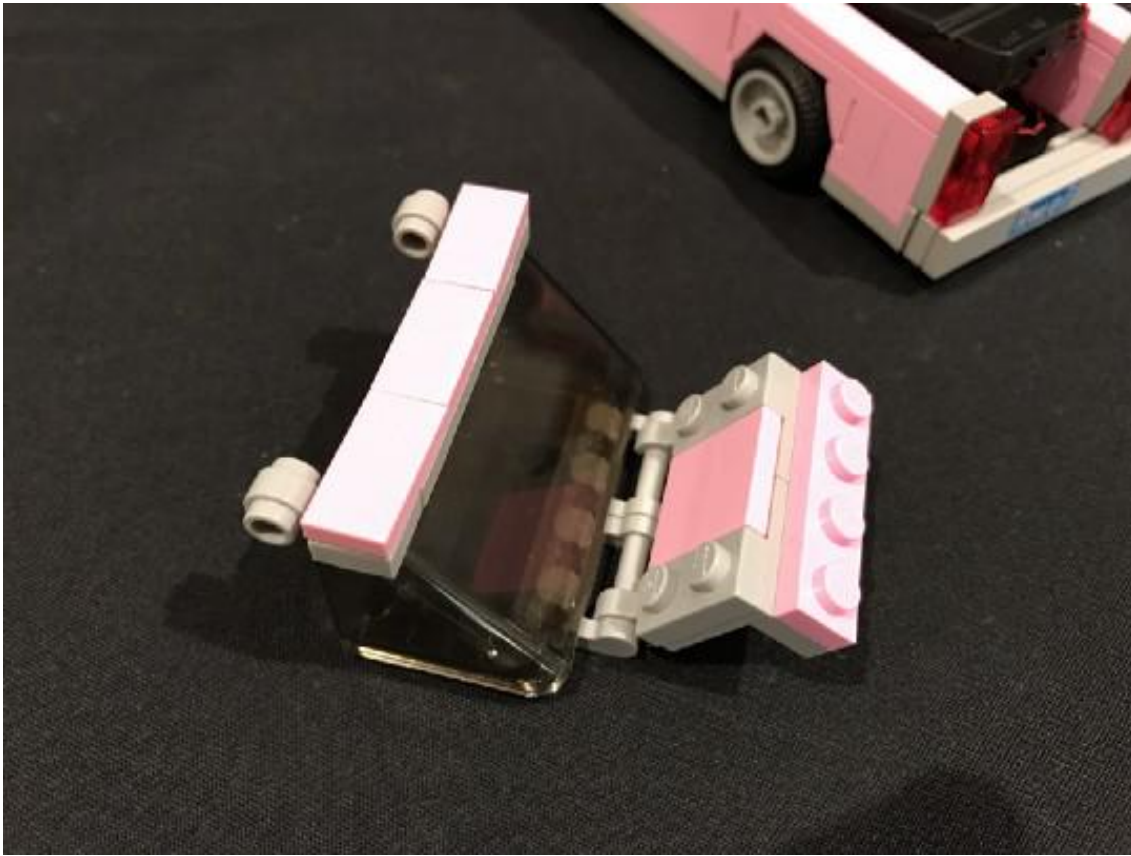




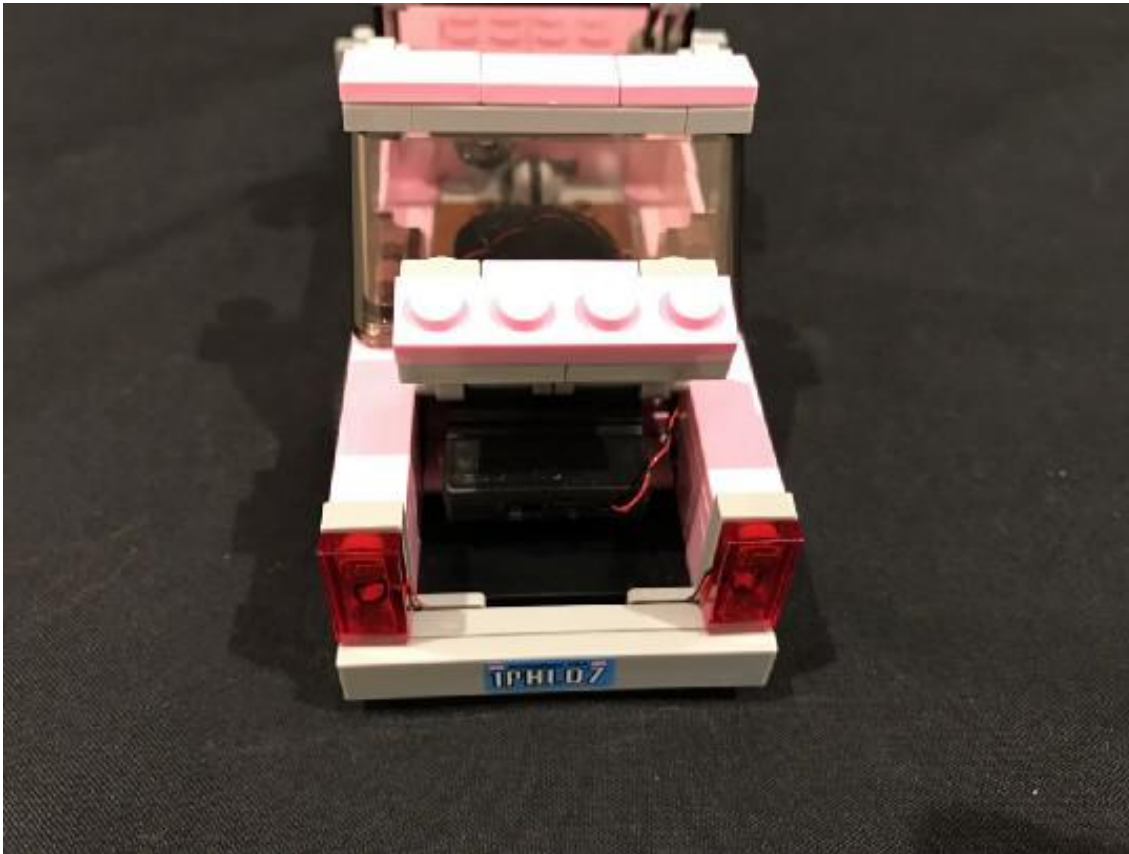


12.) Take the Boot cover section and then connect it to the back window before reconnecting to the back of the car. We are connecting it this way as we have removed the brown piece underneath in order to fit the battery pack in.









Reconnect sections of the roof



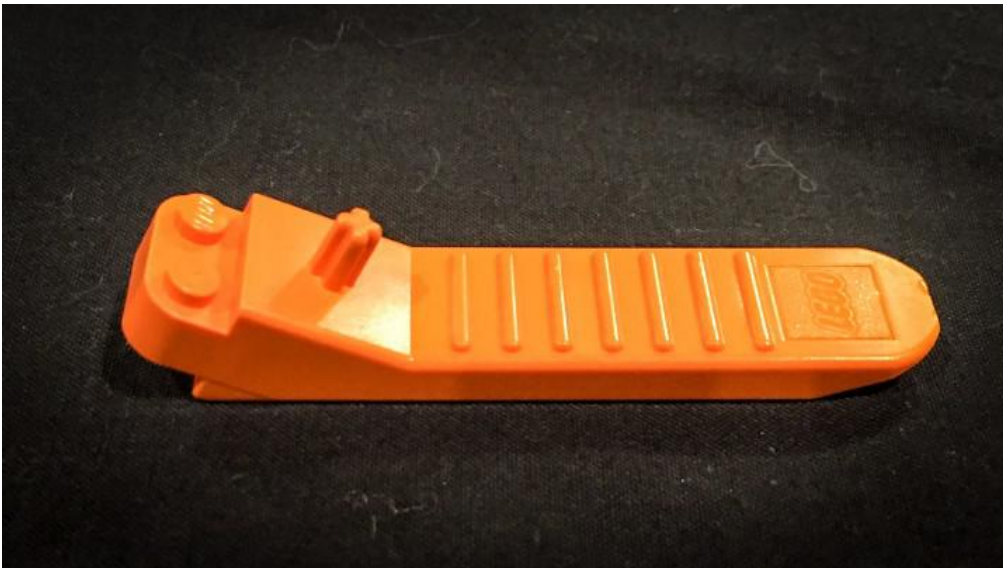


This now completes installation of the Simpsons Car Light Kit. Turn on via the battery pack, close the boot and move on to installing the Light Kit for the Simpsons House.





## **Instructions for installing lights to the Simpsons House**



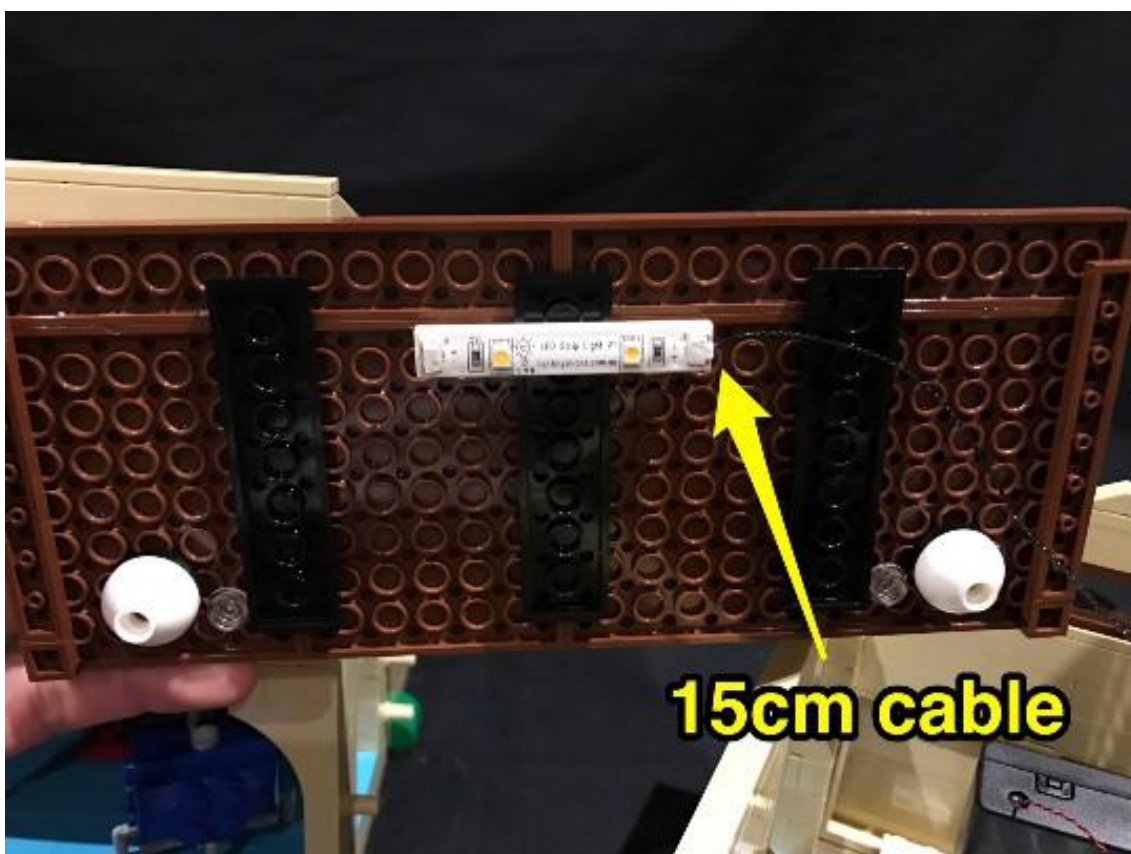
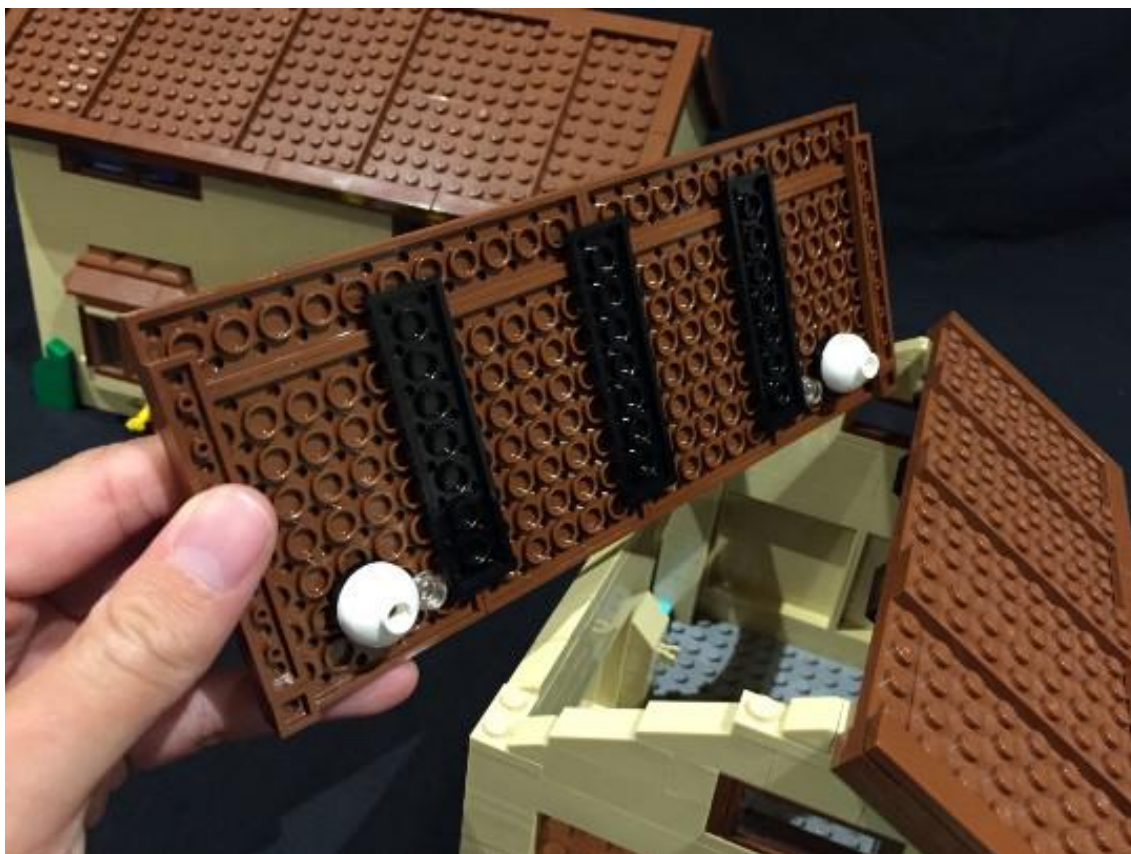
This tool will be required as it will be used to remove the the upper level as well as other pieces.

1.) We will start by installing lights to the garage. First seperate the garage from the house and then install one LED strip light (striplight#1) by sticking/connecting it to the

left side of the roof as pictured below. Take a 15cm connecting cable and connect it to the right port of the LED strip light.



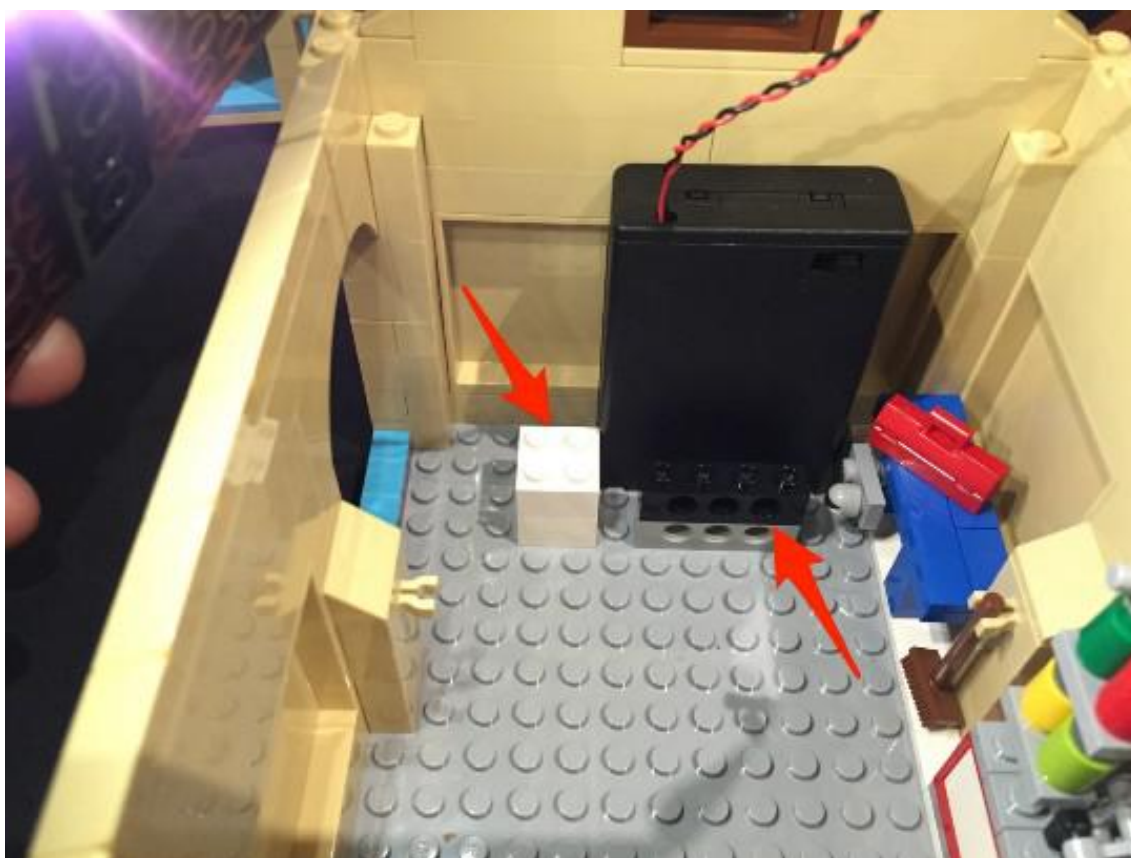
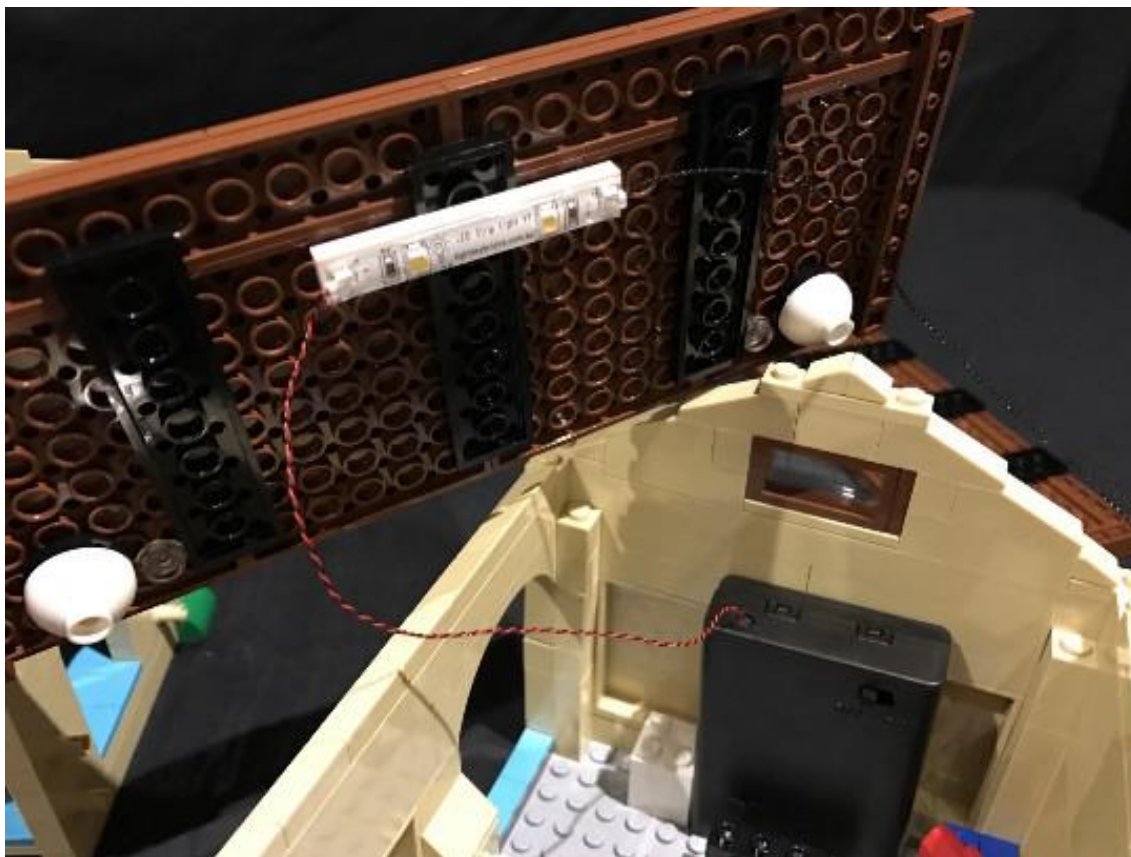




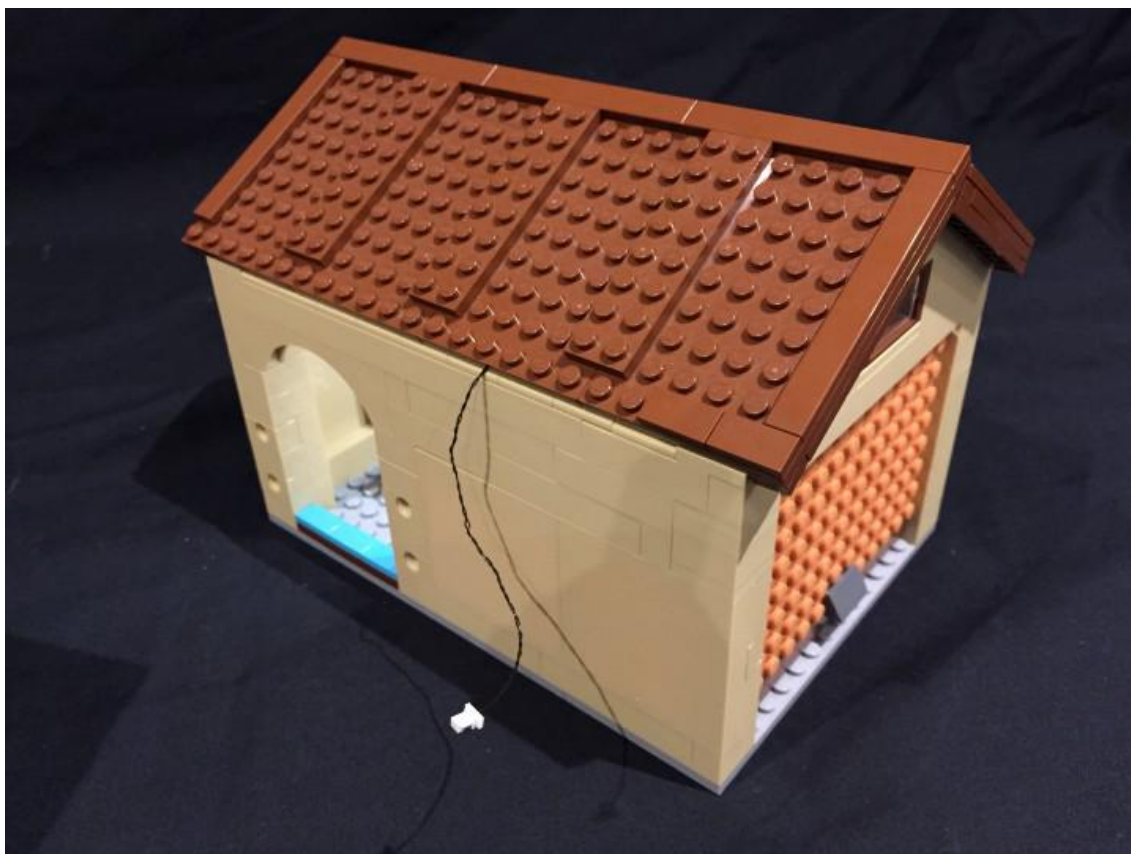
2.) Insert 3x AA batteries into the battery pack and then place in the back of the garage. Plug the battery pack cable into the left port of the strip light and turn the battery pack on to test. You can use a few bricks to secure the battery pack and to prevent it from



moving around - I have used a few 1x4 and 2x2 bricks in this example.



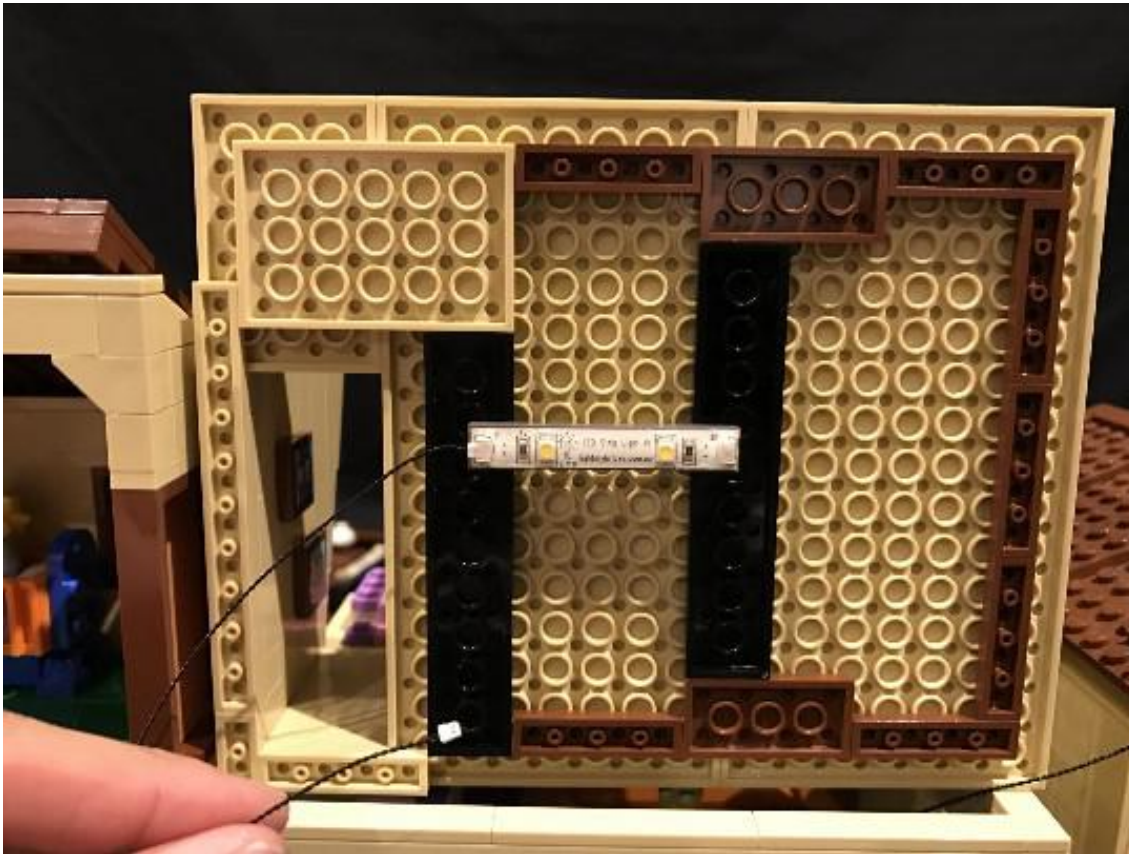
Ensure the 15cm cable is pulled through to the outside underneath the roof. Place the right side of the roof back on.



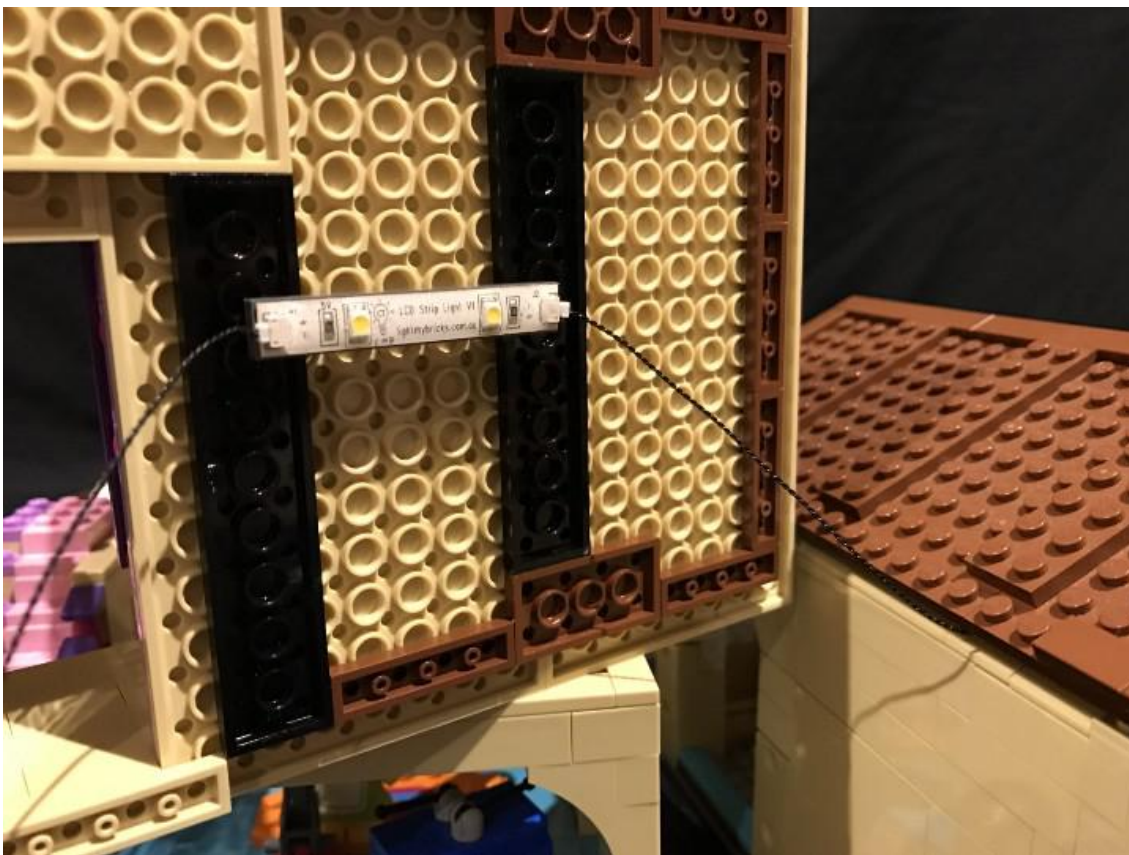
3.) Remove the upstairs section of the house which sits on top of the living room and then install another LED strip light (striplight#2) to the follow position. Then take a 15cm cable and connect it to the left port as shown below:



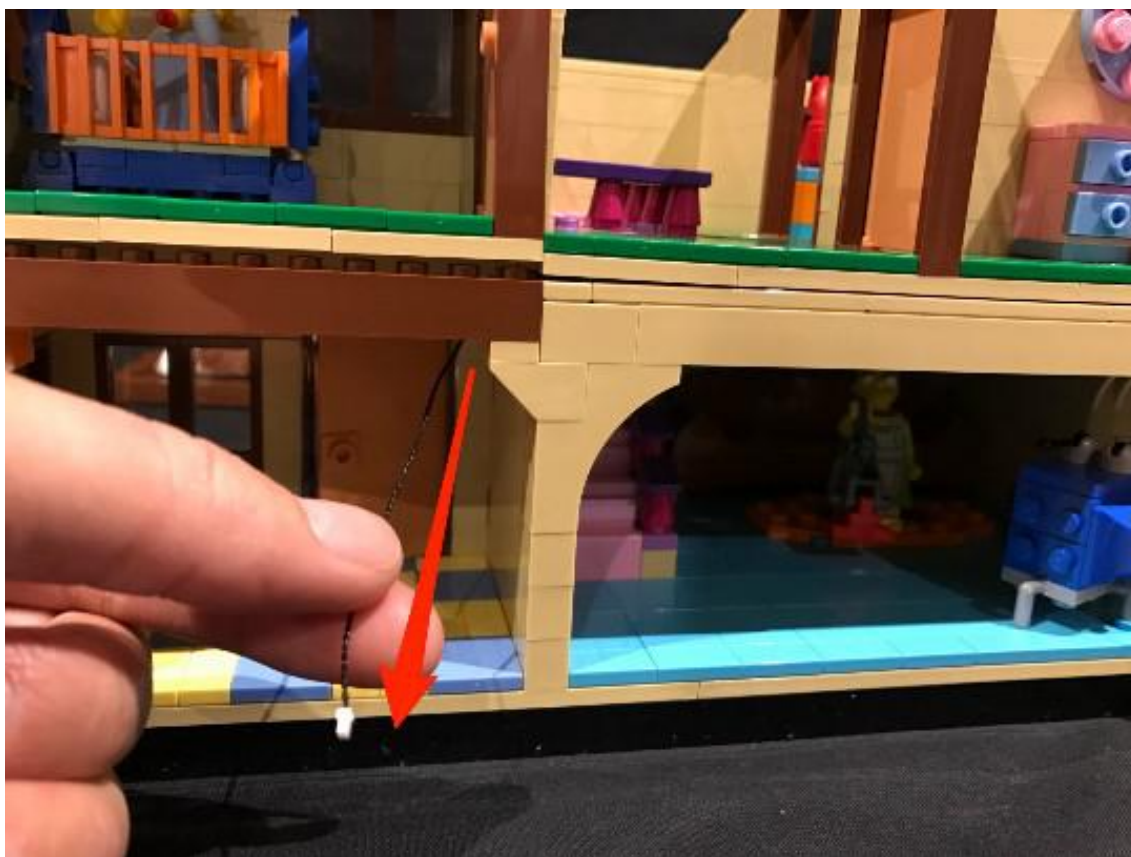
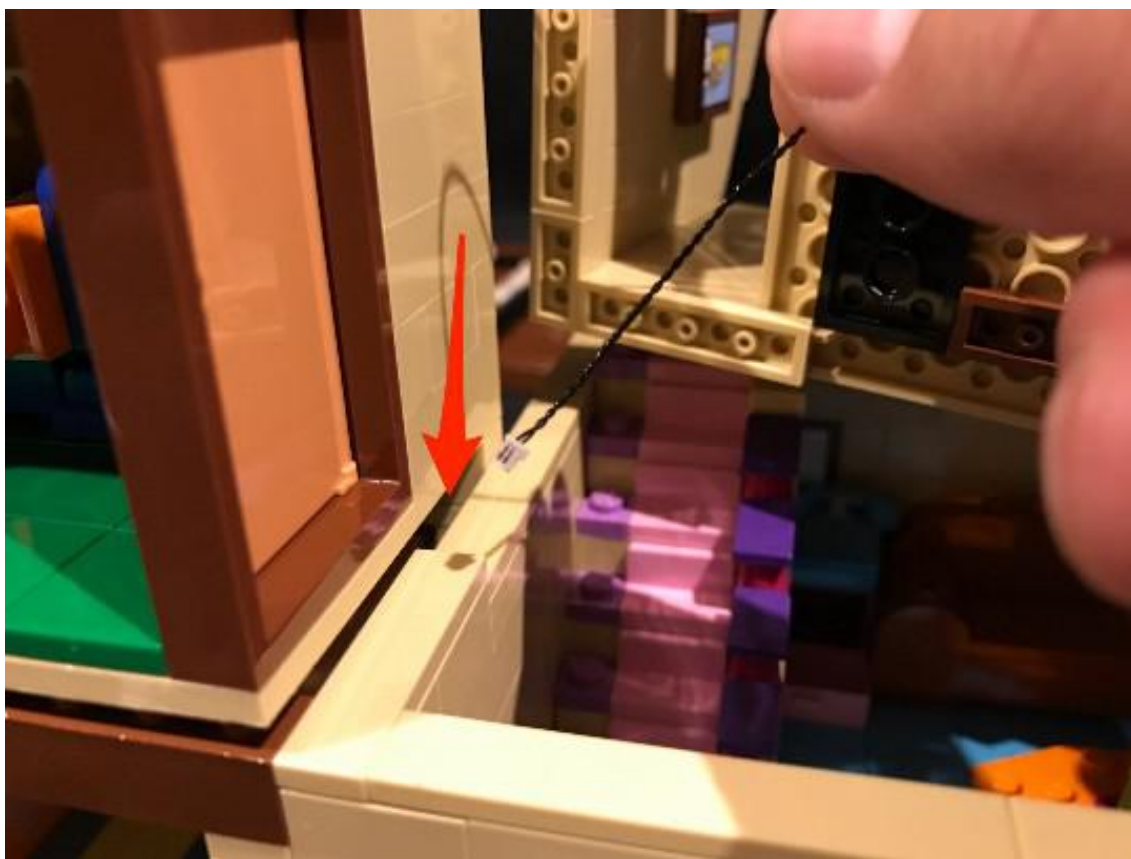




Connect the 15cm cable from the garage into the right port of the strip light we just installed.



4.) Thread the other end of the 15cm cable from striplight#2 down the spacing in between the wall and kitchen then pull it through from the other side.



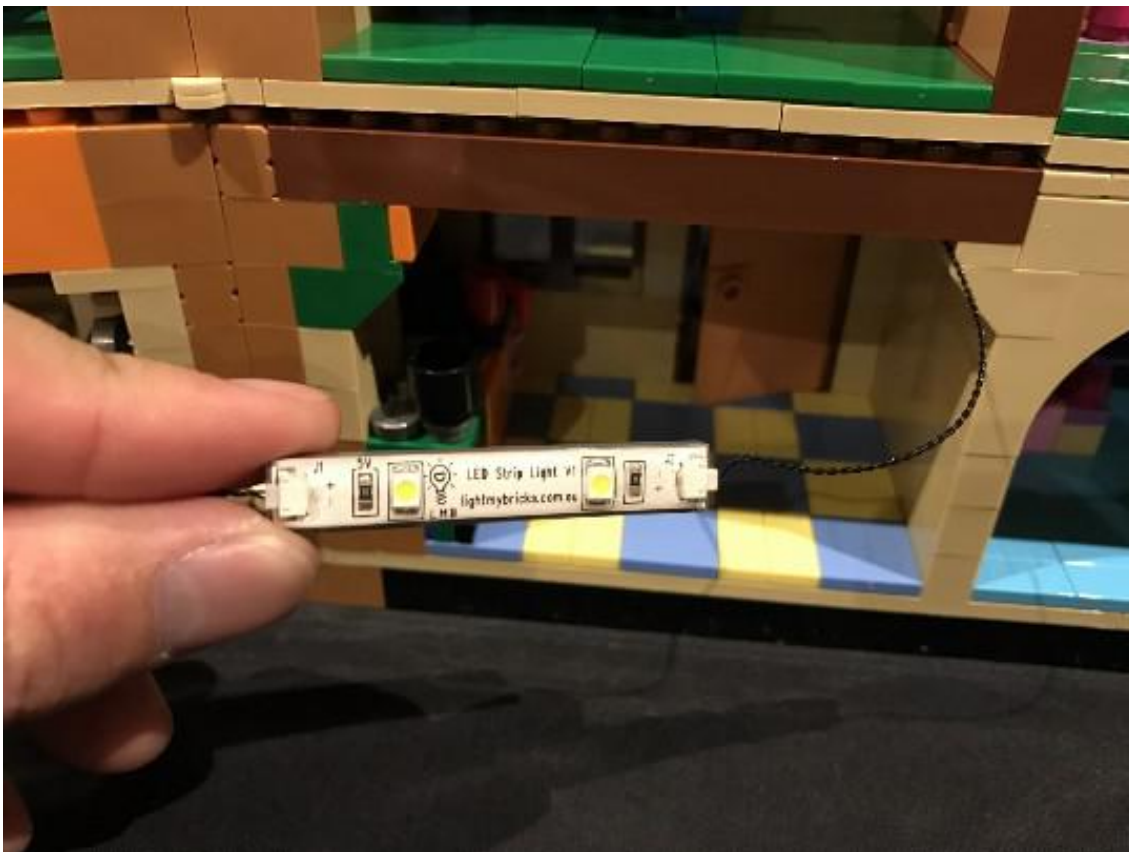
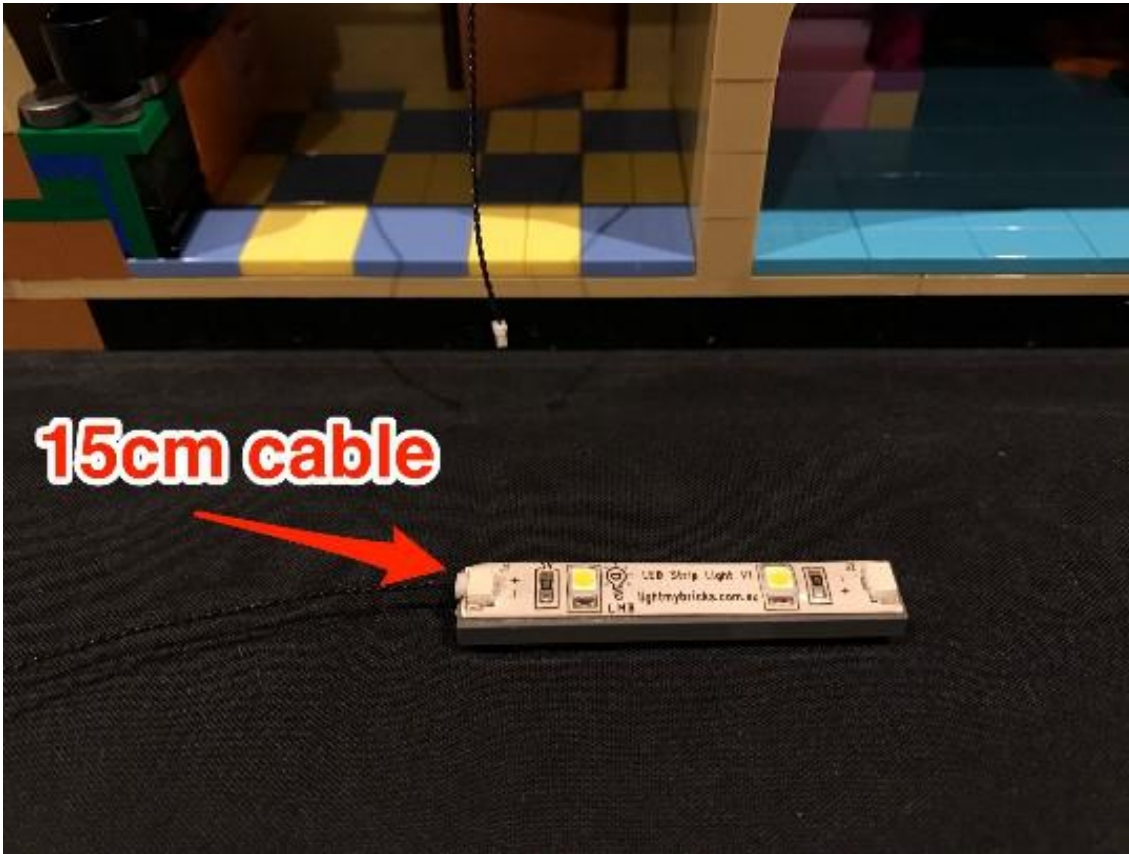
5.) Use the removal tool to separate the top floor from the bottom floor. You will need to



slide the tool all the way across to the left side of the house. We need to create enough space to thread cables in between the walls.



6. ) Take another strip light (striplight#3) and connect another 15cm cable to the left port. Then connect the 15cm cable from striplight#2 into the right port of striplight#3



Connect the strip light to the ceiling of the kitchen in the follow position



7.) Remove the brown 1x12 brick to then allow us to thread the other end of the 15cm cable from striplight#3 across to the next room.





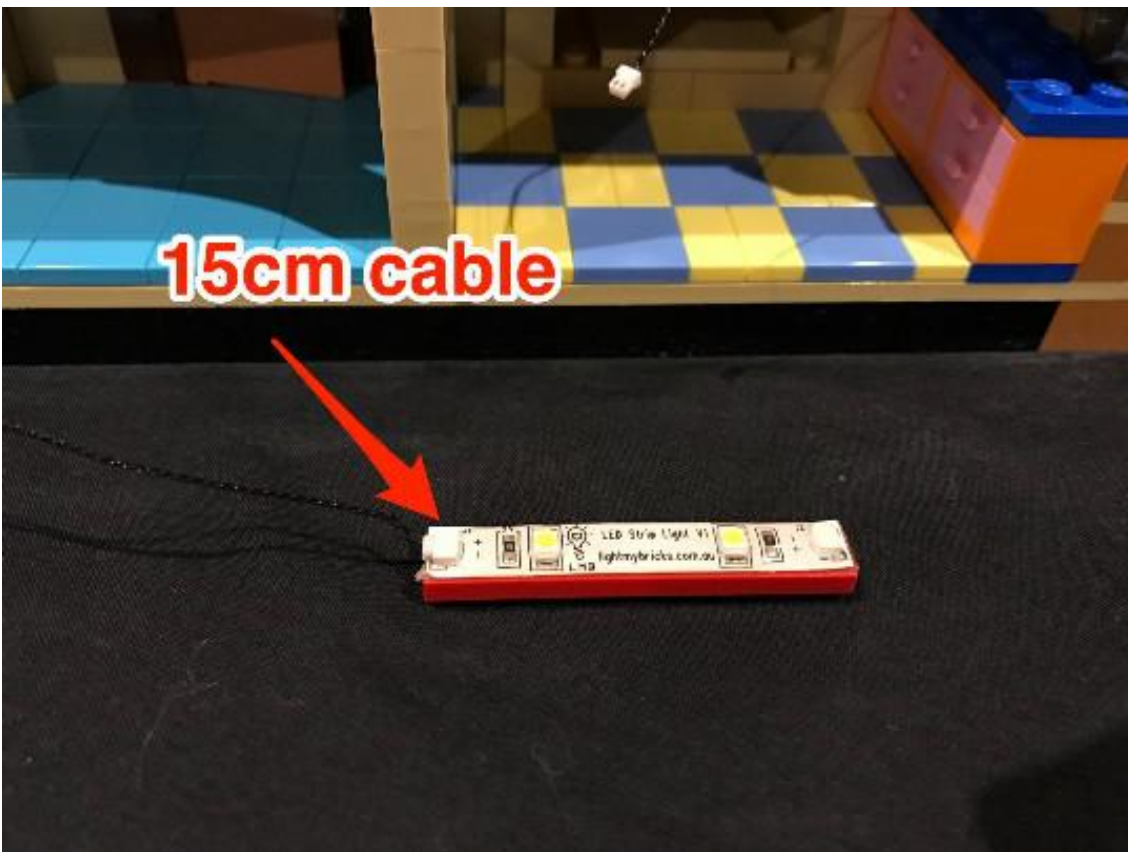


Reconnect the brown brick.





8.) Take another strip light (striplight#4) and connect another 15cm cable to the left port. Then connect the other end of the 15cm cable from striplight#3 to the right port.





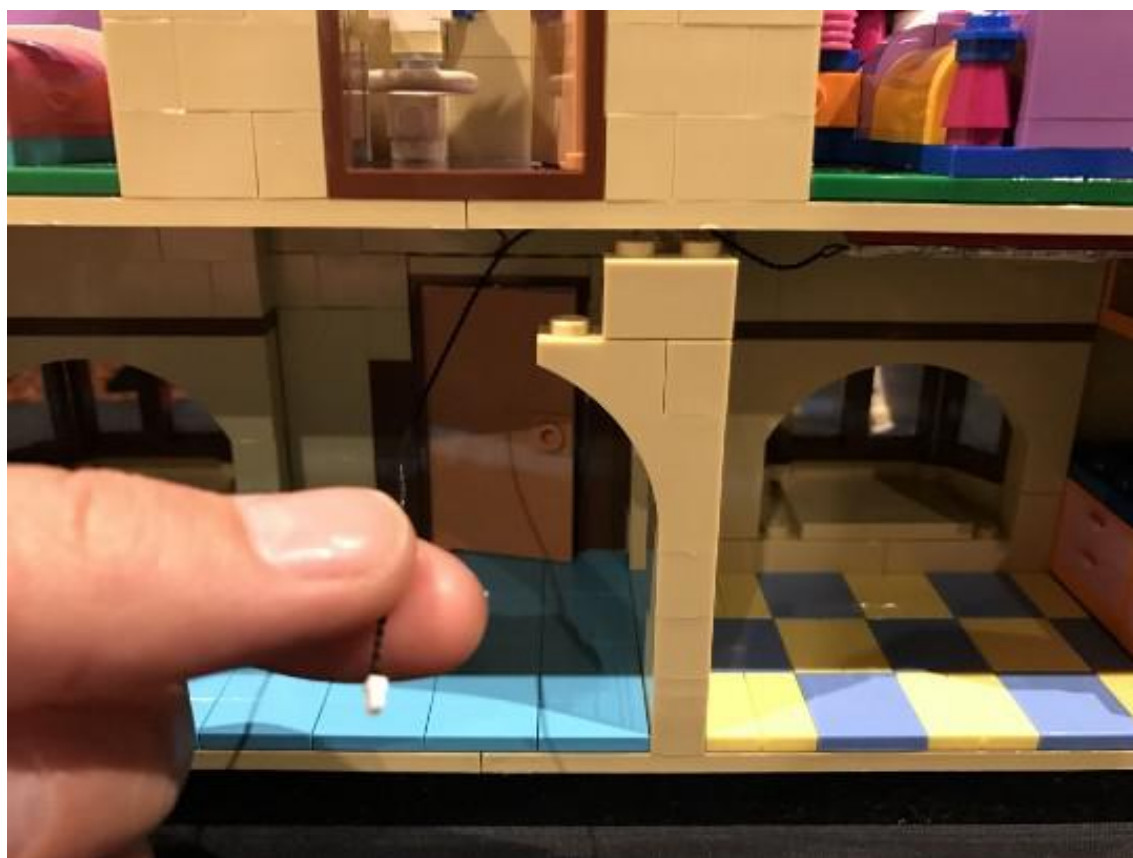
Connect the strip light to the ceiling of the kitchen in the following position



9.) Remove the large brick in the middle of the living room to allow us to then thread



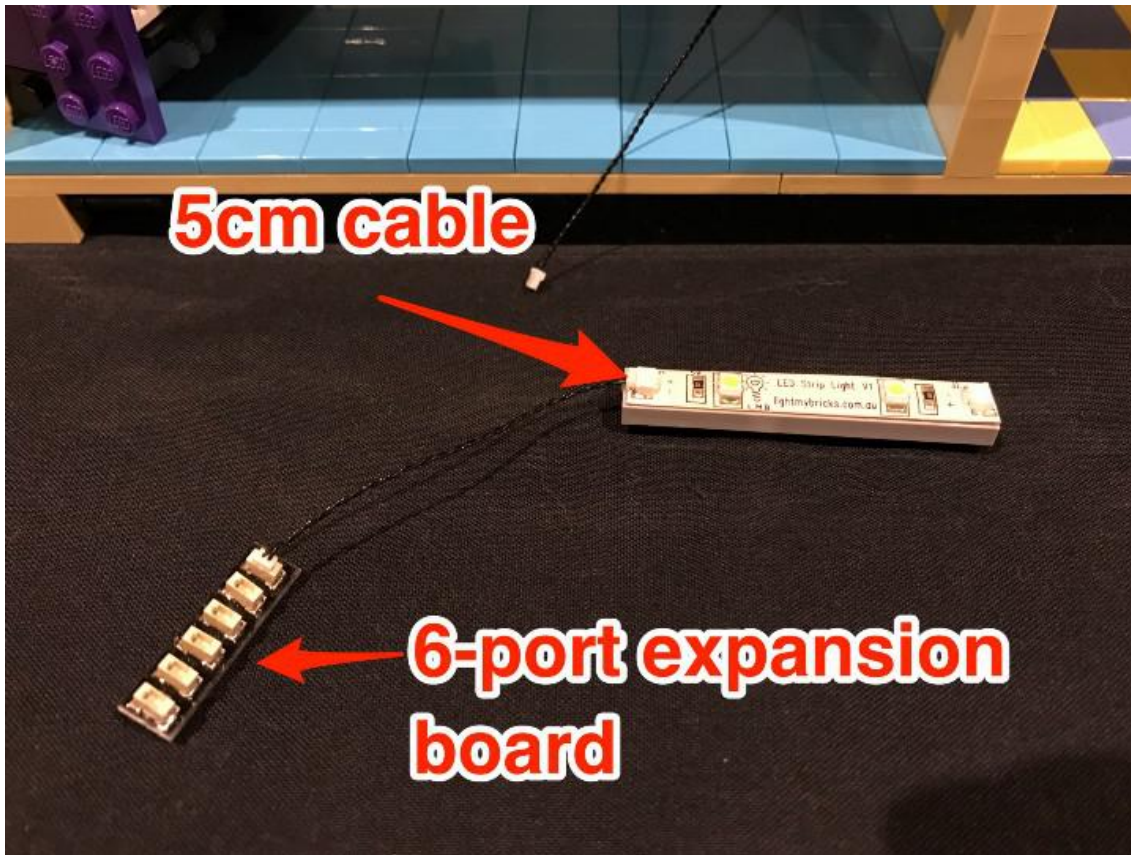
the 15cm cable from striplight#4 over to the wall into this room.



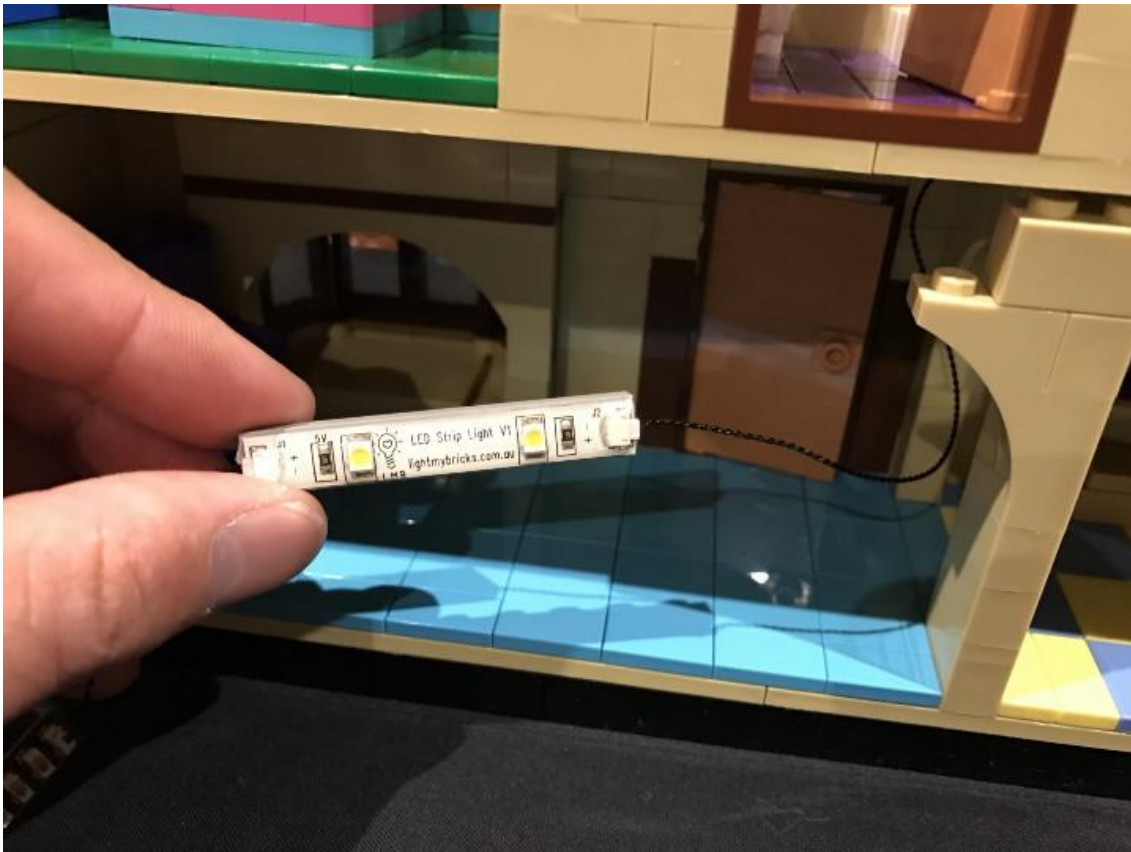
10.) Take another strip light (striplight#5) and connect a 5cm connecting cable to the left port. Connect the other end of this cable into any port on the 6-port expansion



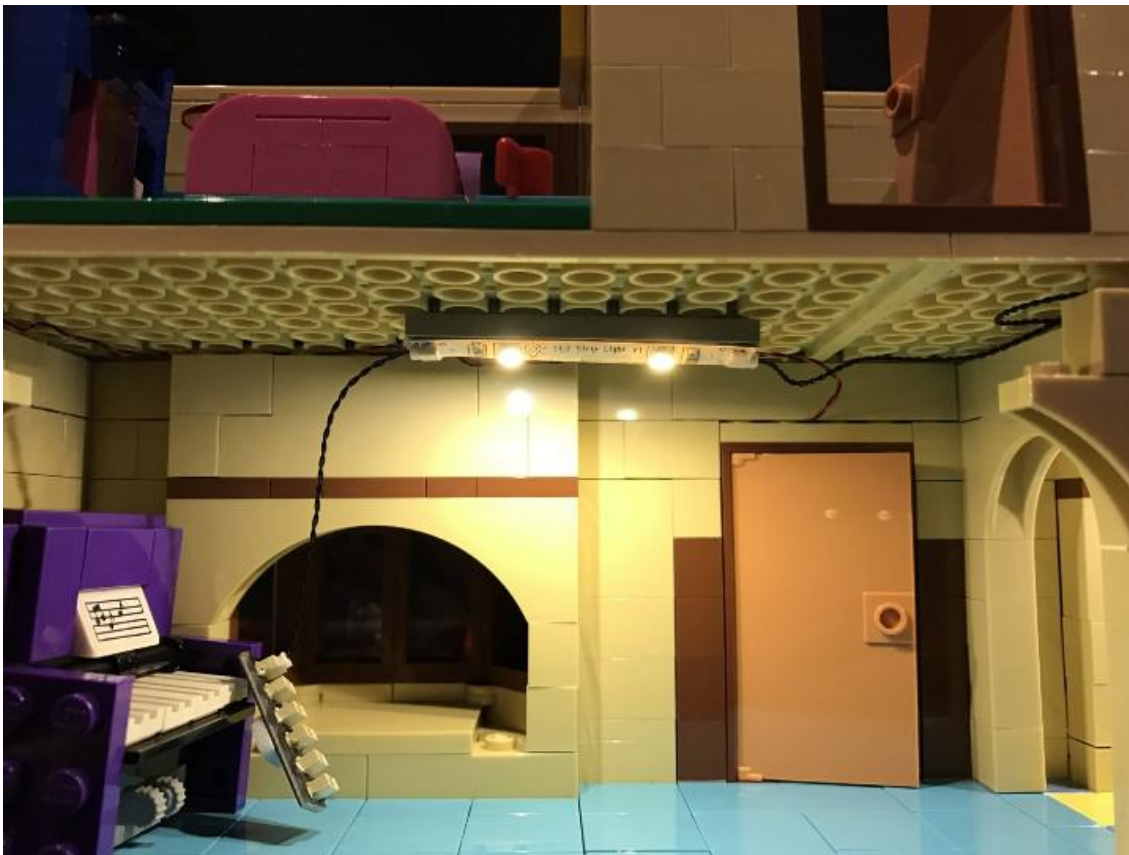
board.



Connect the other end of the 15cm cable from striplight#4 into the right port of striplight#5.



11.) Connect striplight#5 to the ceiling of the living room in the following position.



12.) We will now install an LED light to the lamp in Lisa's room. Start by removing the blue shelf, followed by the lamp.



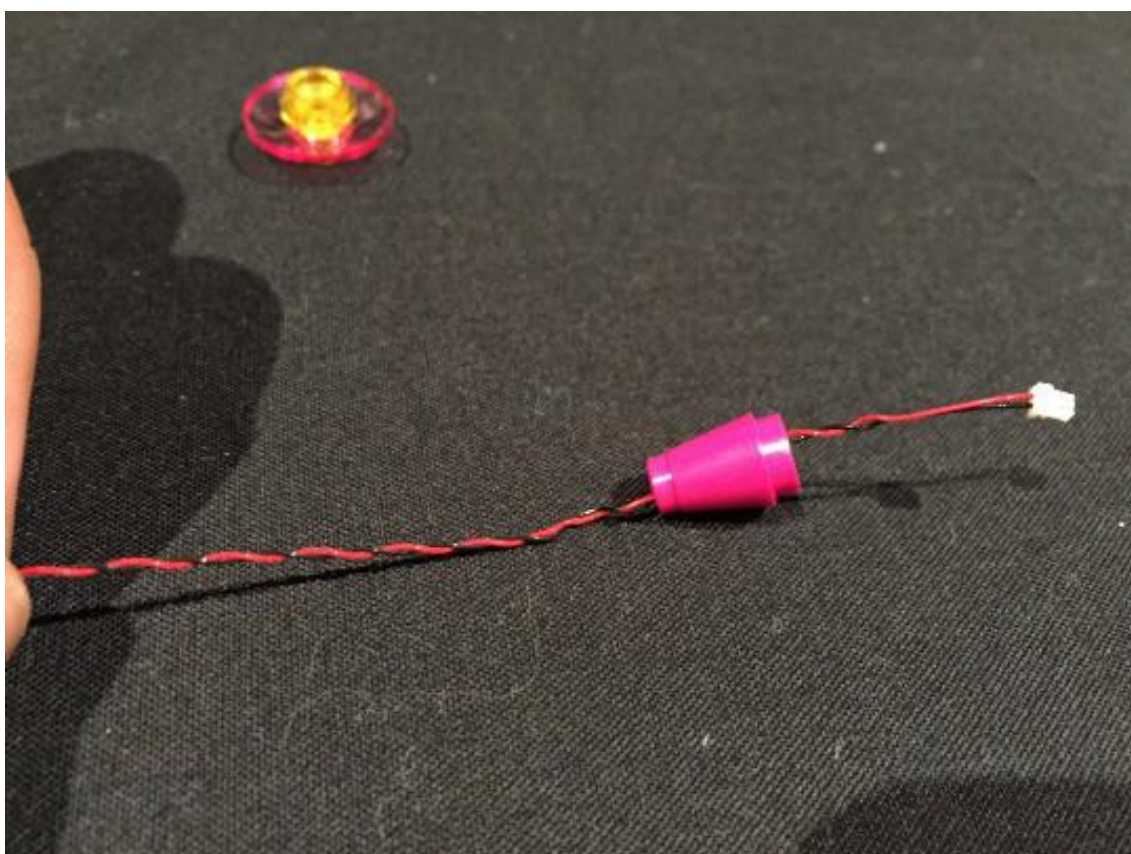
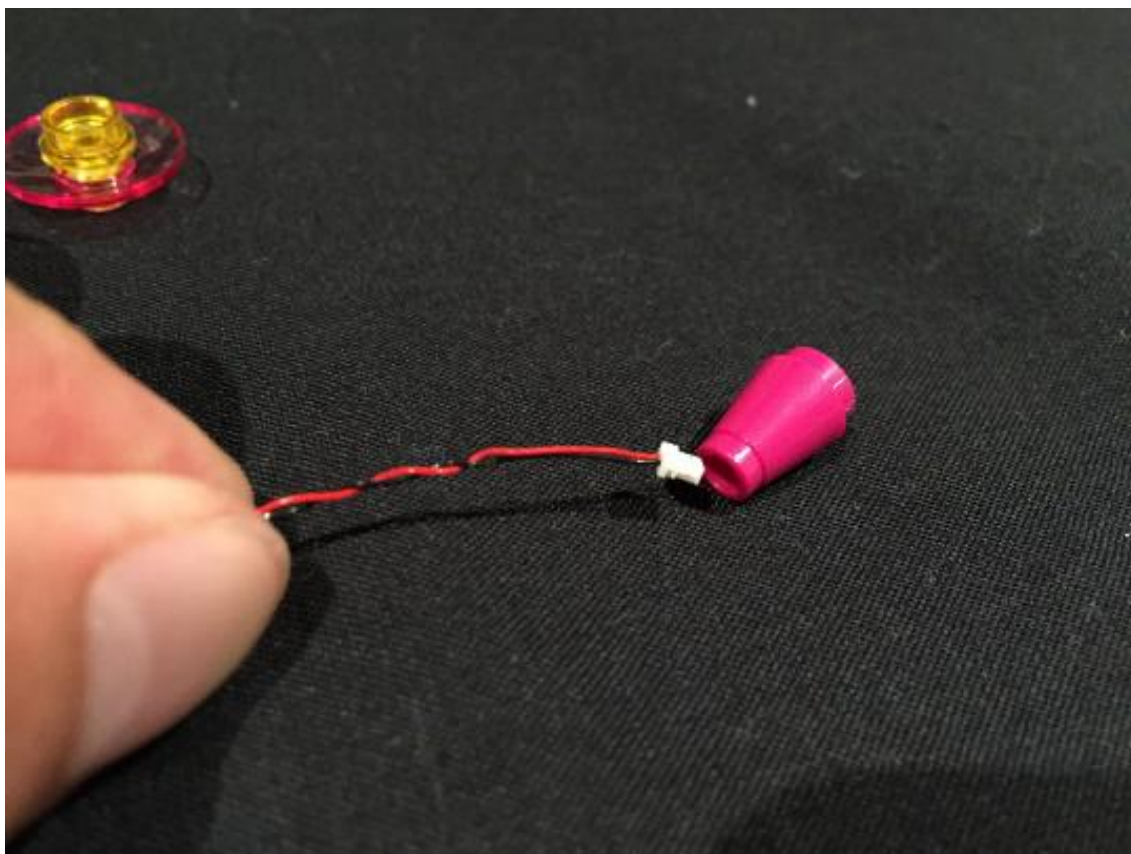


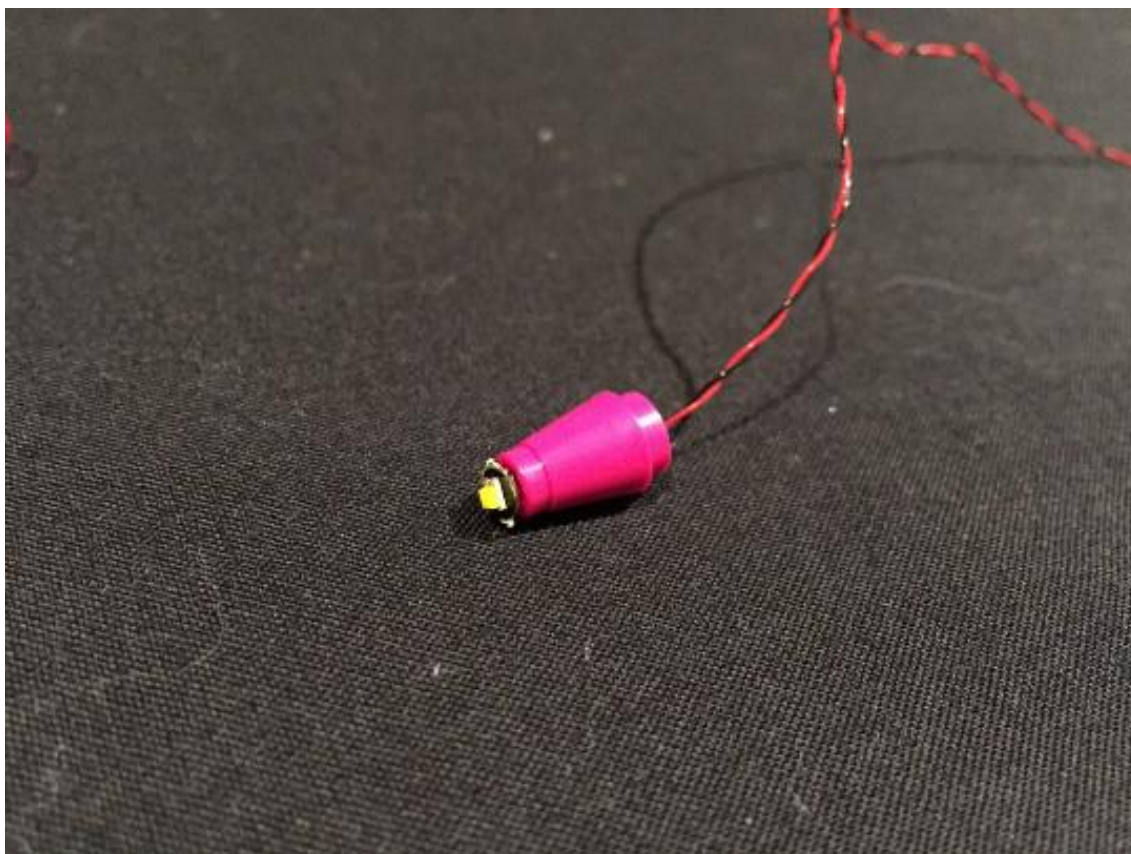


Disconnect the transparent yellow and pink pieces, then take a Dot Light and thread it through the smaller hole (plug side first). Thread it all the way through until the LED component is at the top.







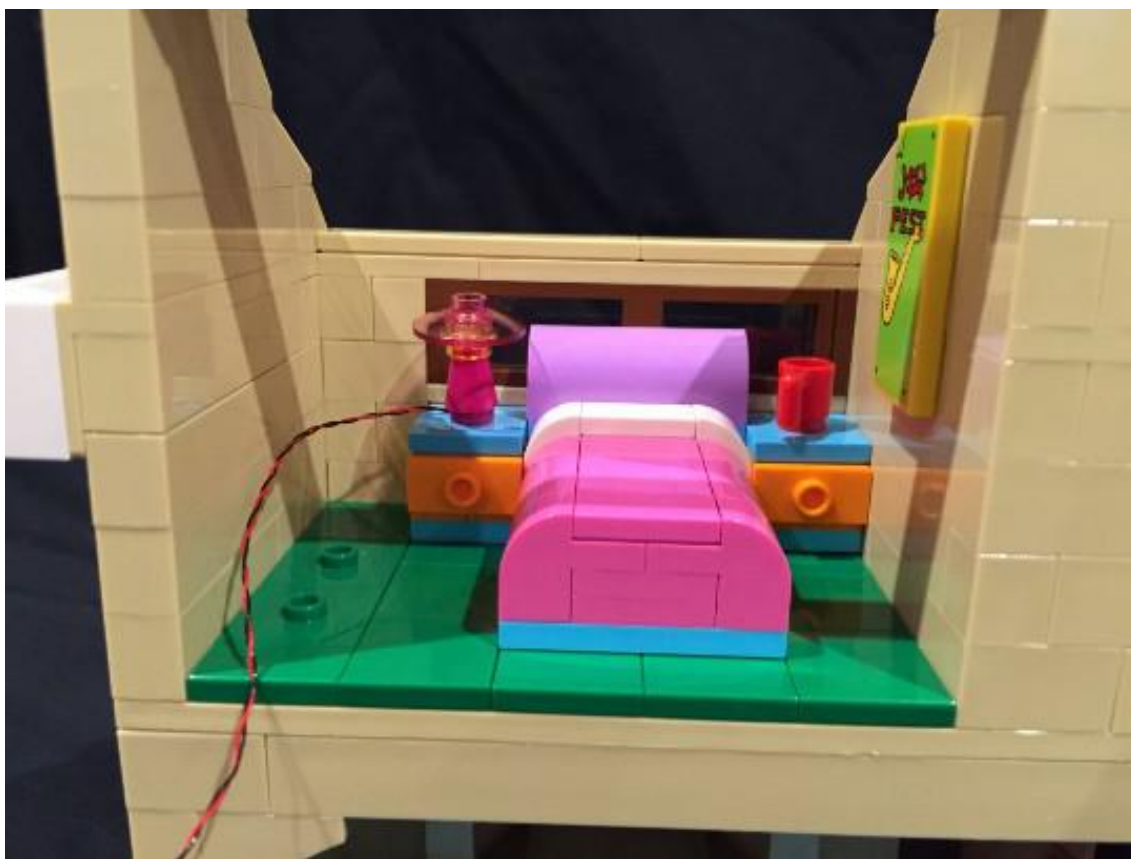


Secure the Dot Light in place by reconnecting the transparent yellow and pink pieces we removed earlier over the top.



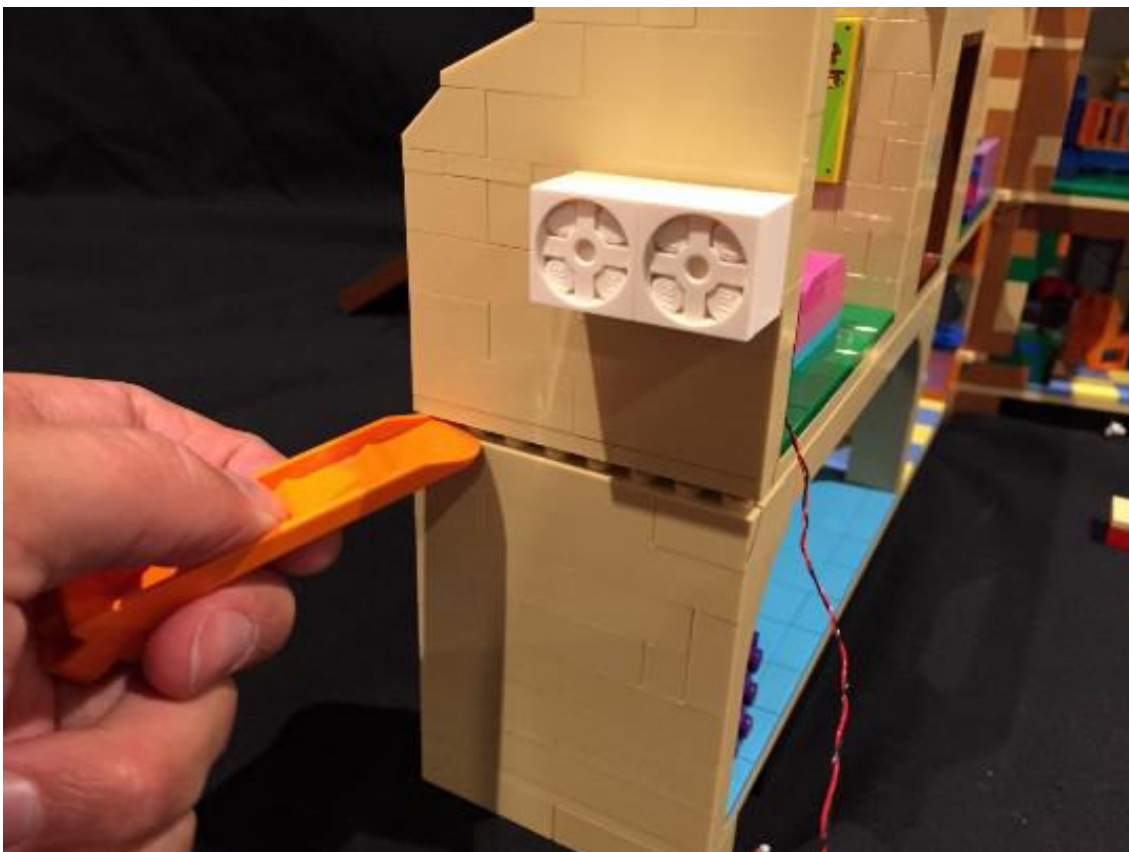


13.) Reconnect the lamp back to the bedside table and then reconnect the blue shelf ensuring the cable from the lamp is behind the shelf and pulled downward.





14.) We will now install another dot light to the front of the house. Use the removal tool to disconnect the upper level at the base as per below. You can slide the tool all the way across to help separate the 2 levels.



15.) Turn the house over to the front and remove the top of the door frame (brown piece). Take another Dot Light and stick it underneath the door frame in the centre using the self adhesive square. Ensure the cable is facing behind.



16.) Remove the 1x6 brick as per below and then reconnect the top of the door frame ensuring the Dot Light cable is laid behind in between studs of the 1x6 brick. Reconnect this brick over the top of the cable.







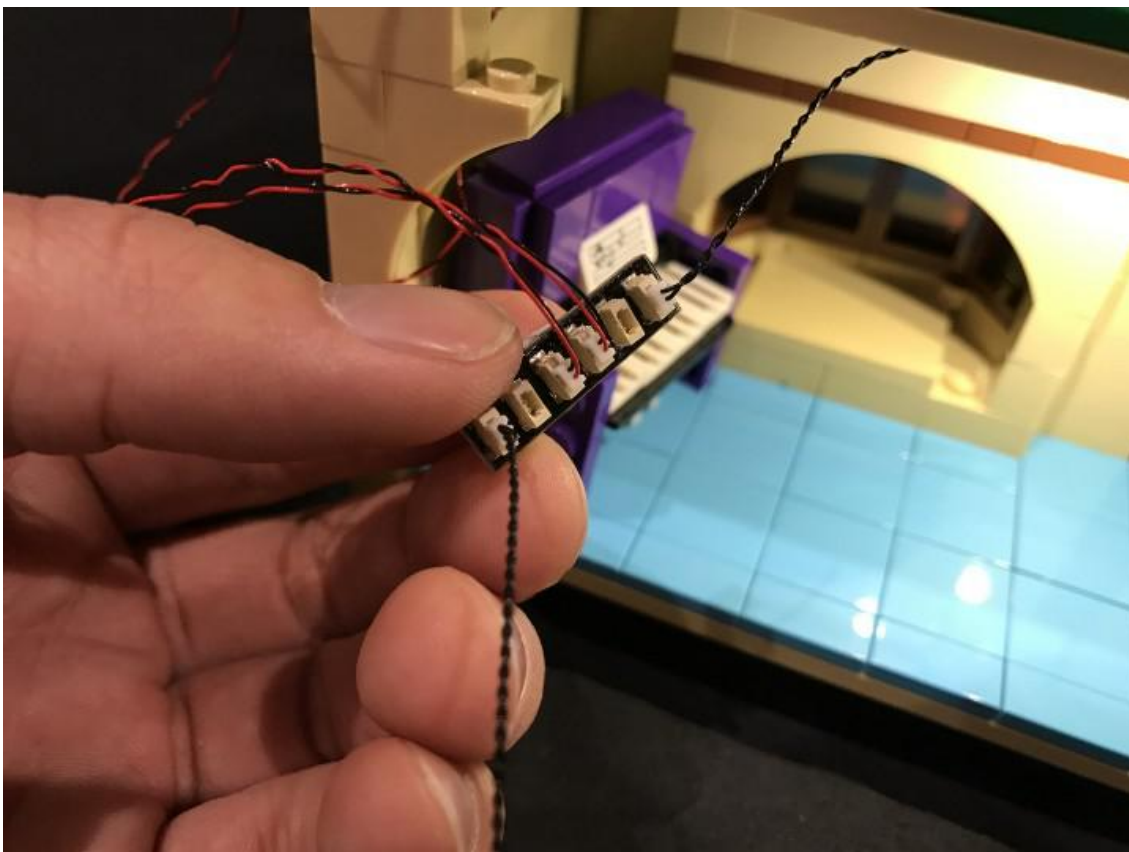


17.) Pull the dot light cable behind the ceiling and then take this along with the dot light from Lisa's room and then connect them both into spare ports on the expansion board.





18.) Take a 30cm connecting cable and connect this into a spare port of the expansion board.

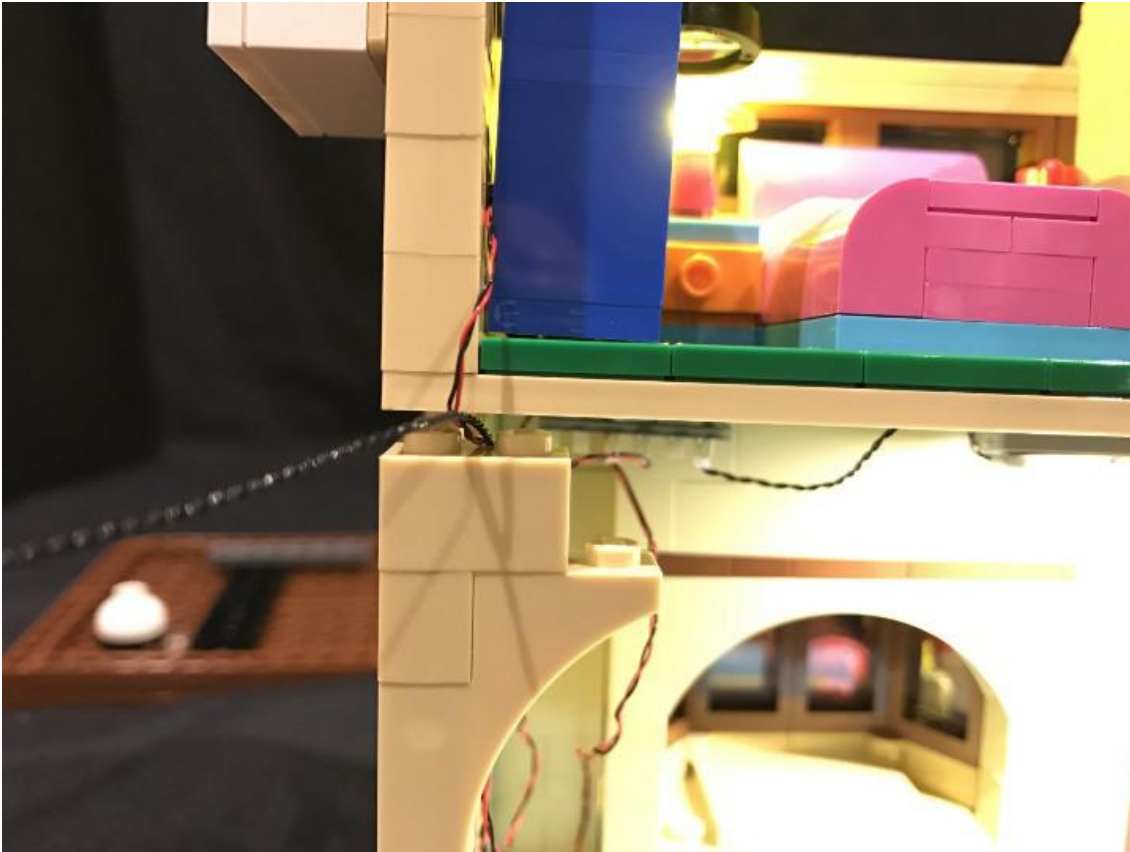




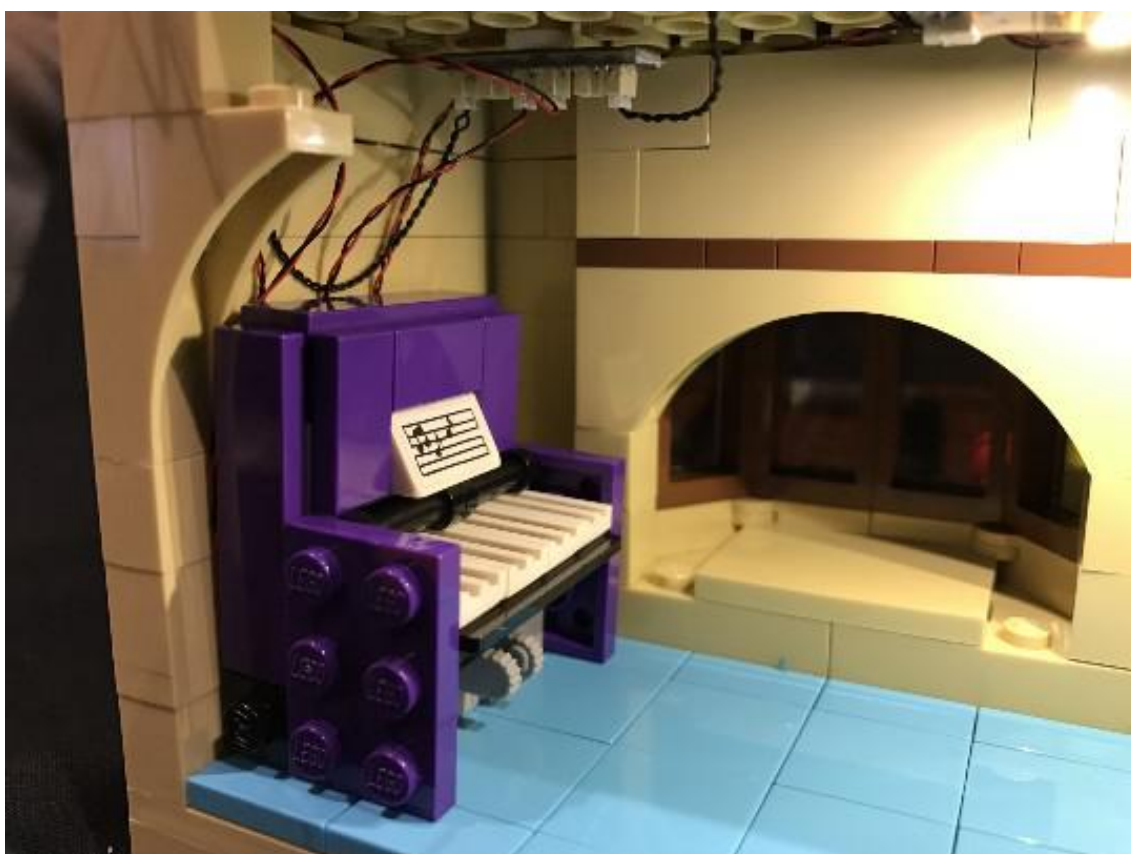
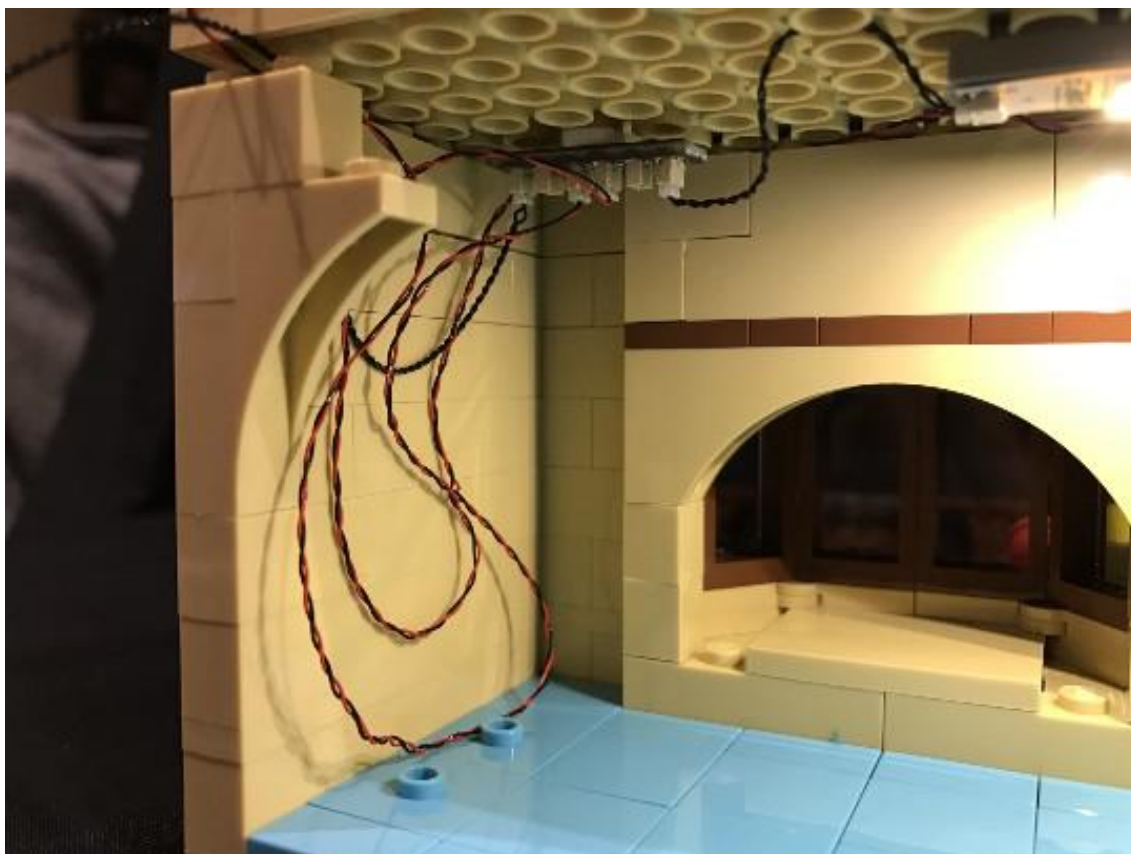
19) Stick the expansion board to the left corner of the ceiling using one of the provided adhesive squares.



20.) Pull the cable from the dot light from Lisa's room through to the living room ensuring the cable is laid in between the studs as per below. Pull the 30cm cable from the expansion board toward the front of the house ensuring it is laid in between the same studs.



Hide the rest of the cables behind the piano.



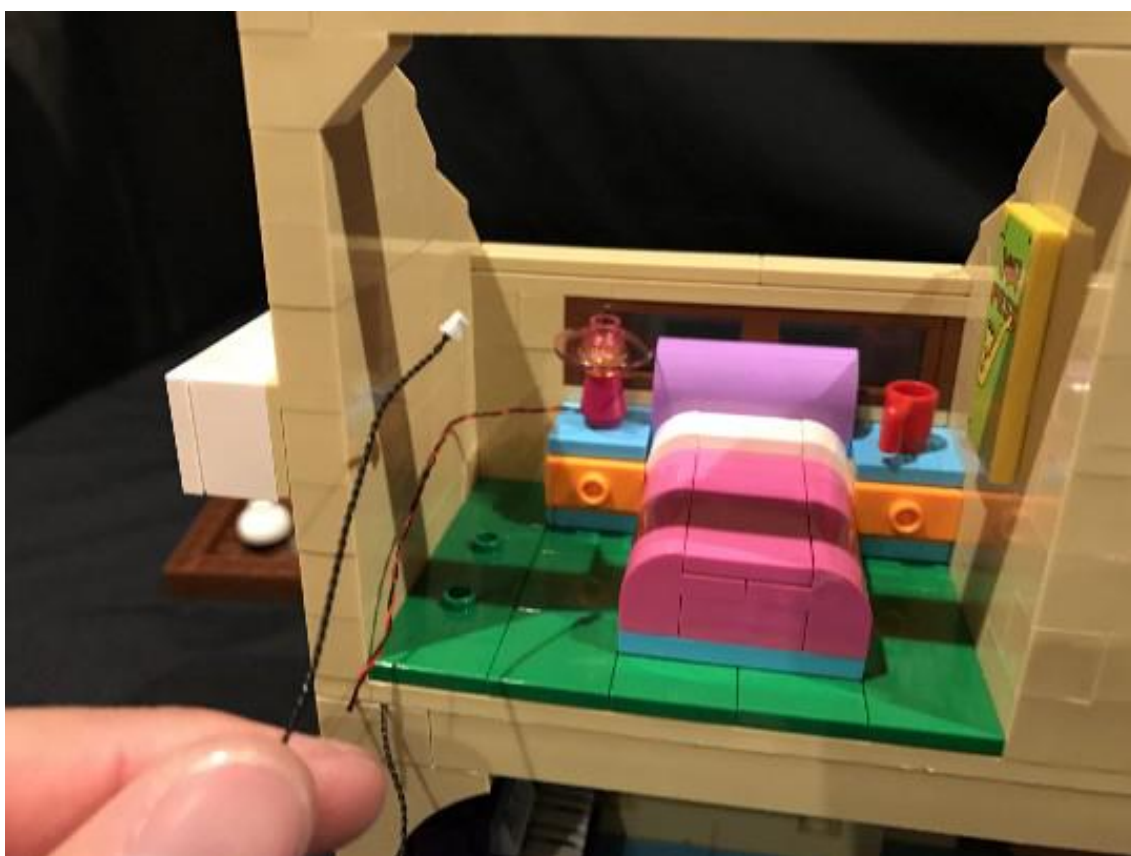
21.) Replace the long brick we removed earlier and then reconnect the entire top floor by pushing down gently at the bases of the top floor.

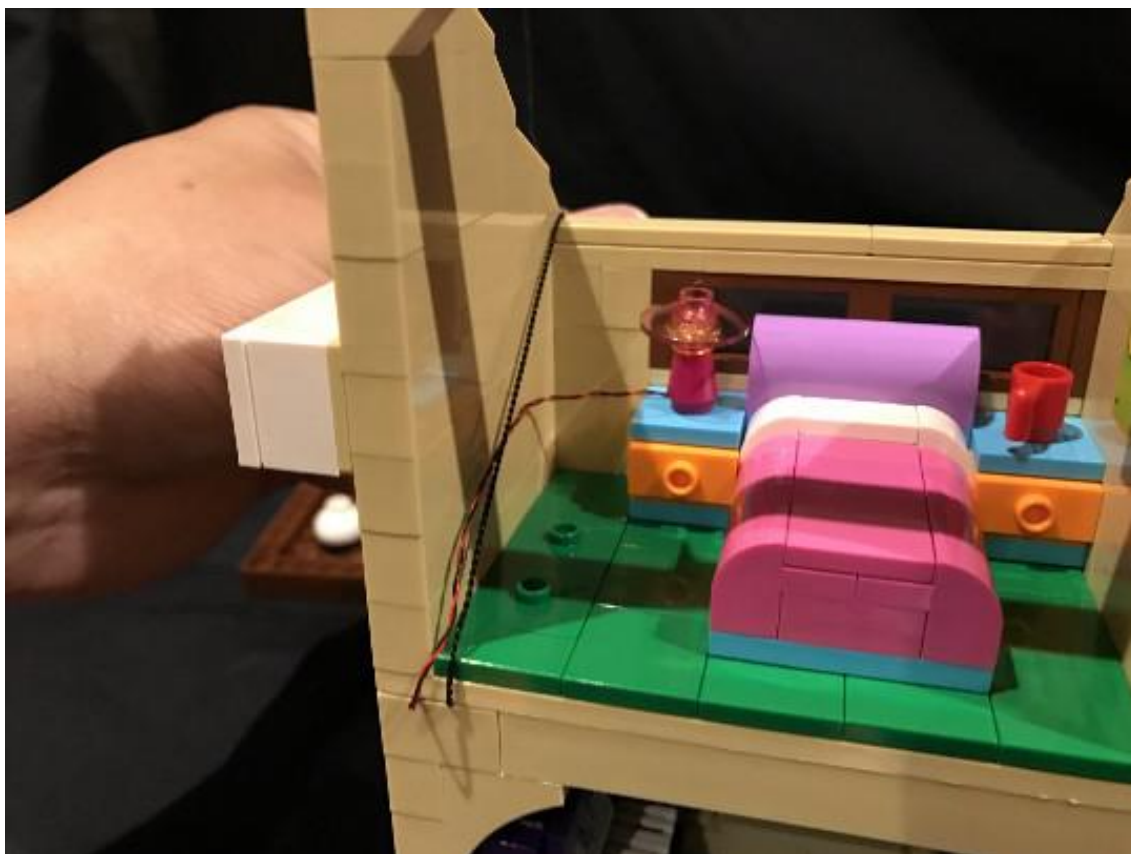






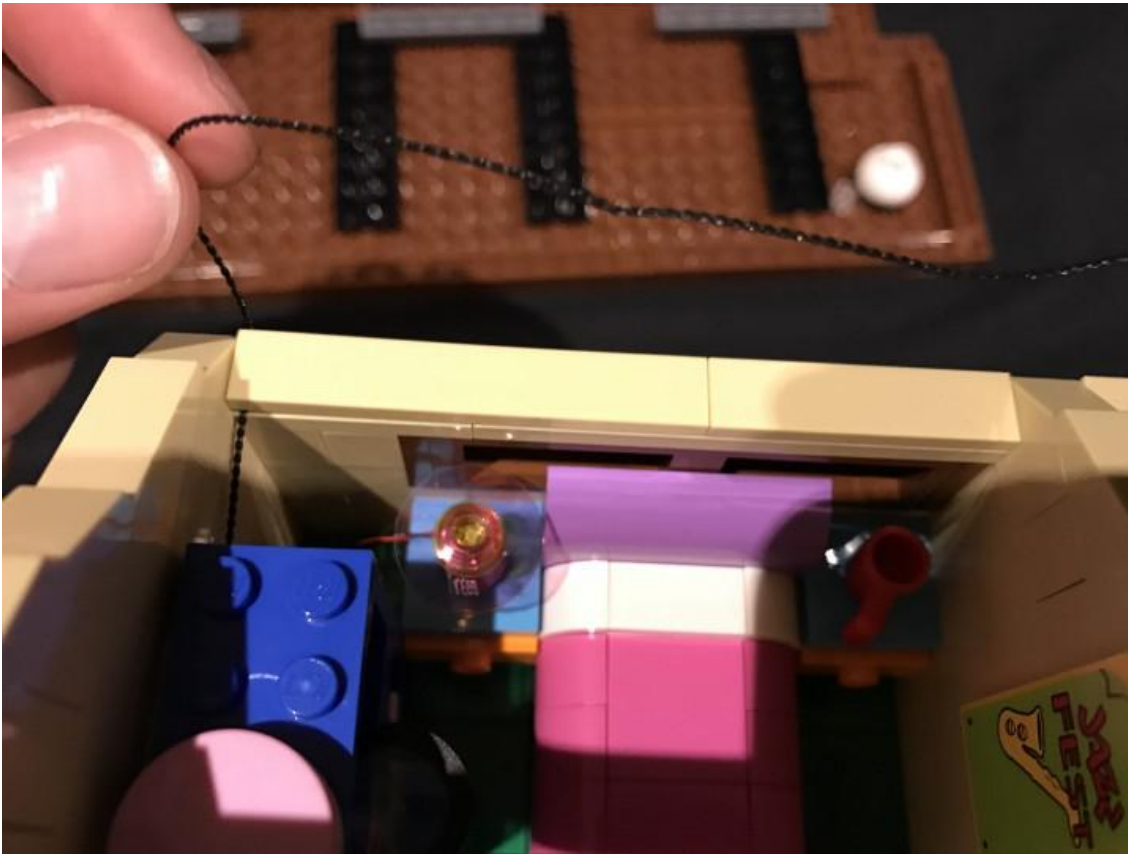
22.) Remove the roof off the top floor section as well as the blue shelf from Lisa's room and then pull the 30cm cable up and toward the back of corner of room. Secure/hide this cable along with the dot light cable behind the blue shelf.



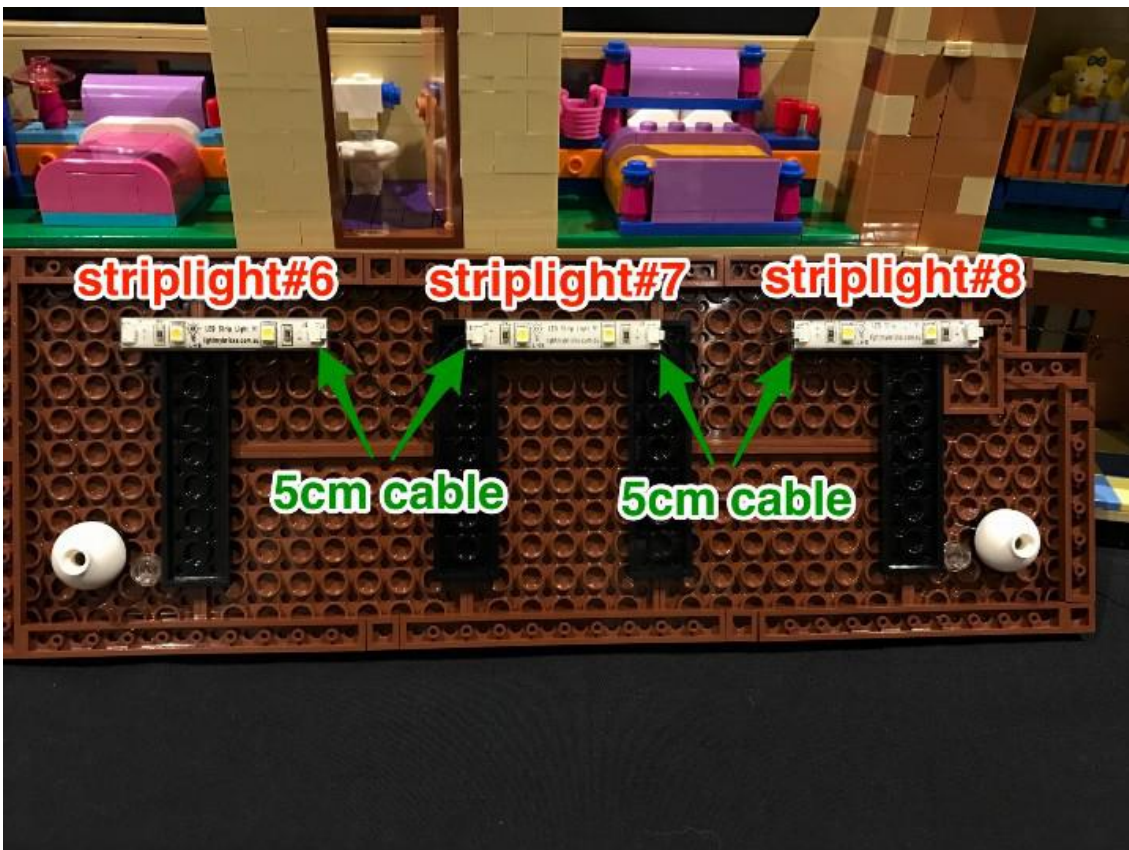


23.) Lay the 30 cm cable underneath the tile.

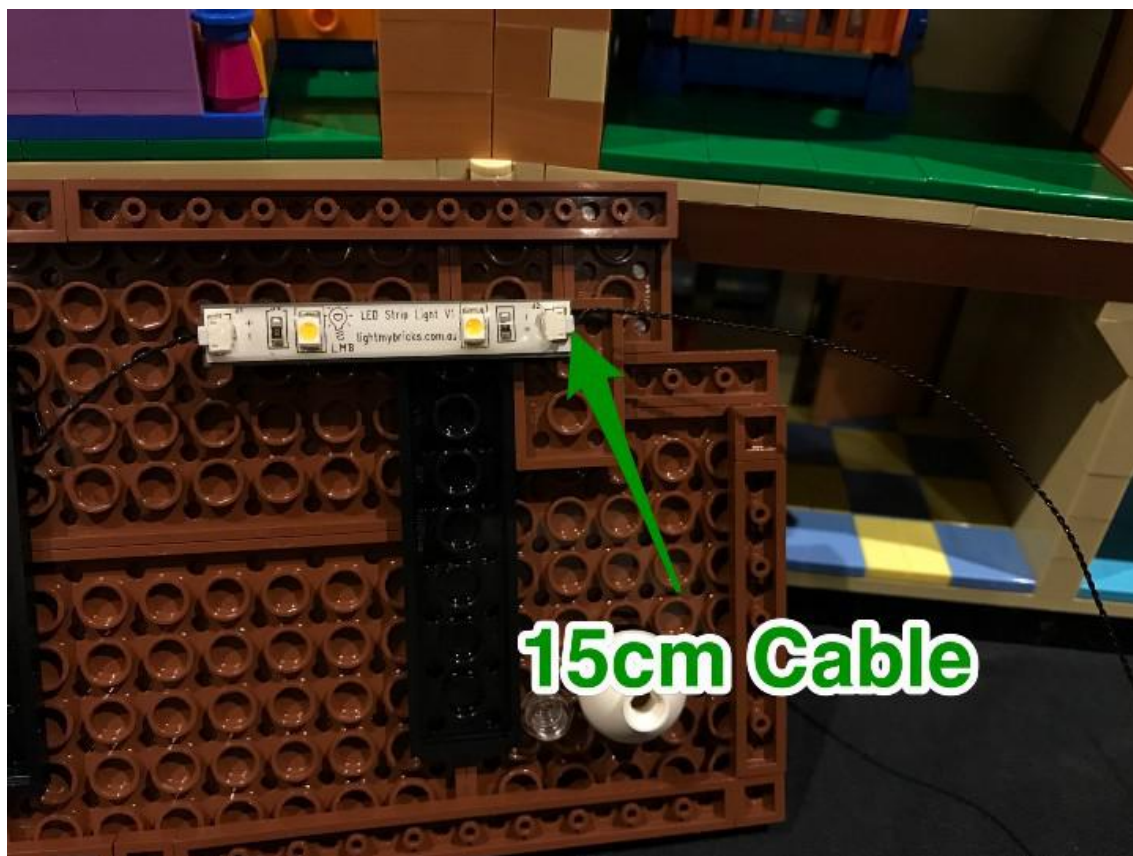




24.) Now take the roof of this main section and then stick/connect 3 striplights (striplight#6, #7, & #8) to the following positions. Take two 5cm cables and connect them between striplight#6 and #7, and #7 and #8.



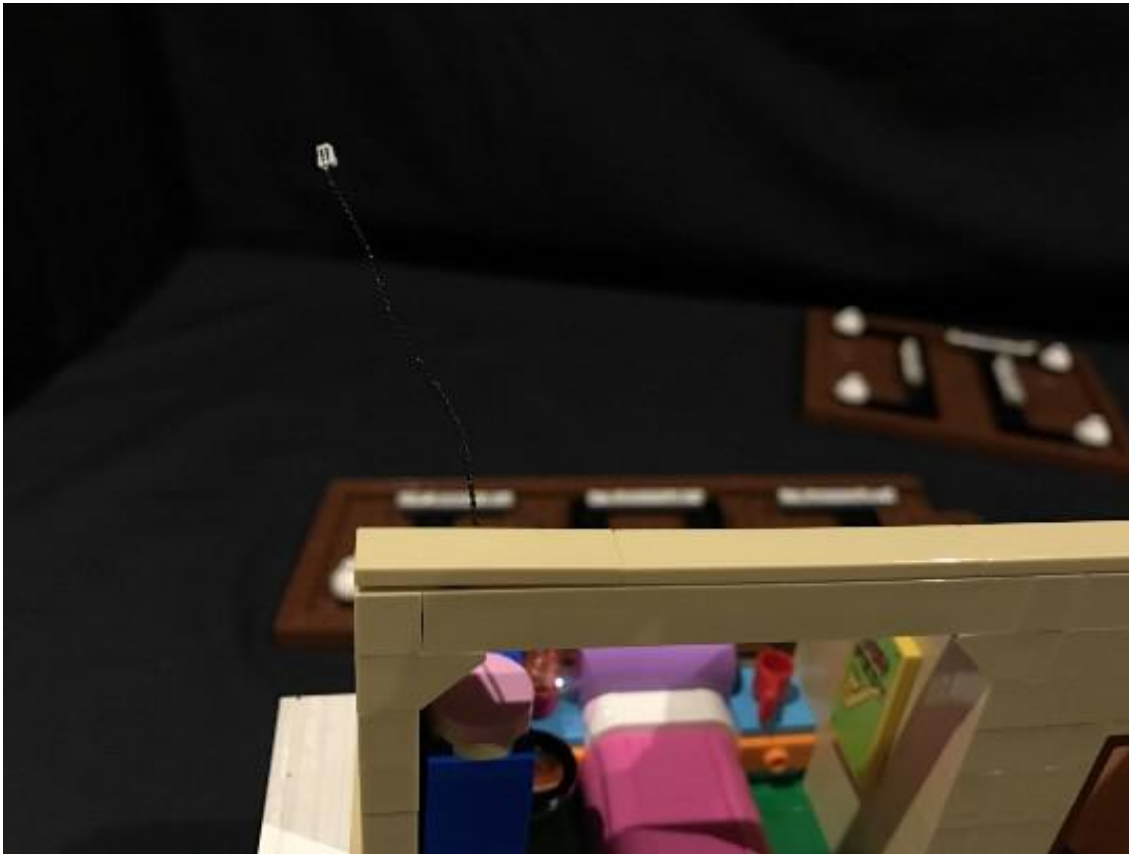
25.) Connect a 15cm cable to the right port of striplight#8



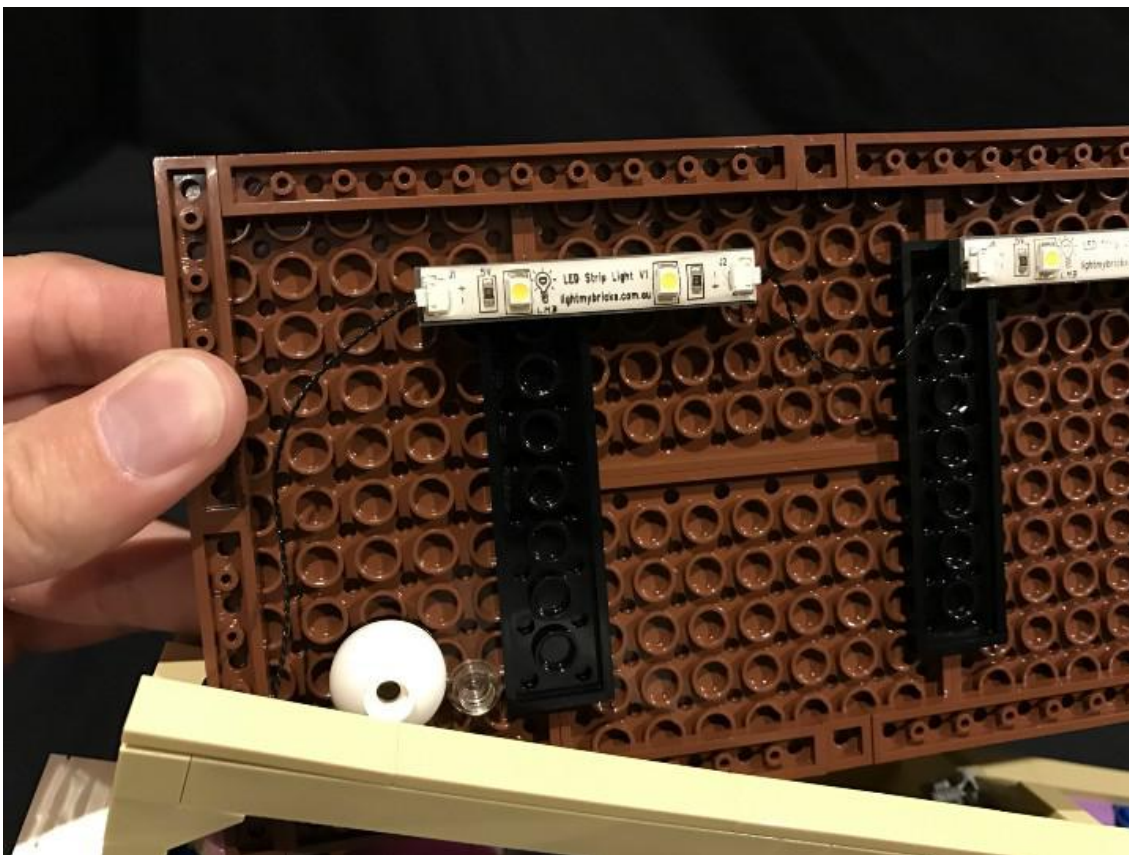
26.) Take the 30cm cable from the back of Lisa's room and then pull it to the front and then secure it underneath the tile in the top left corner.







27.) Take the roof section with 3 strip lights installed and connect the 30cm cable to the left port of striplight#6

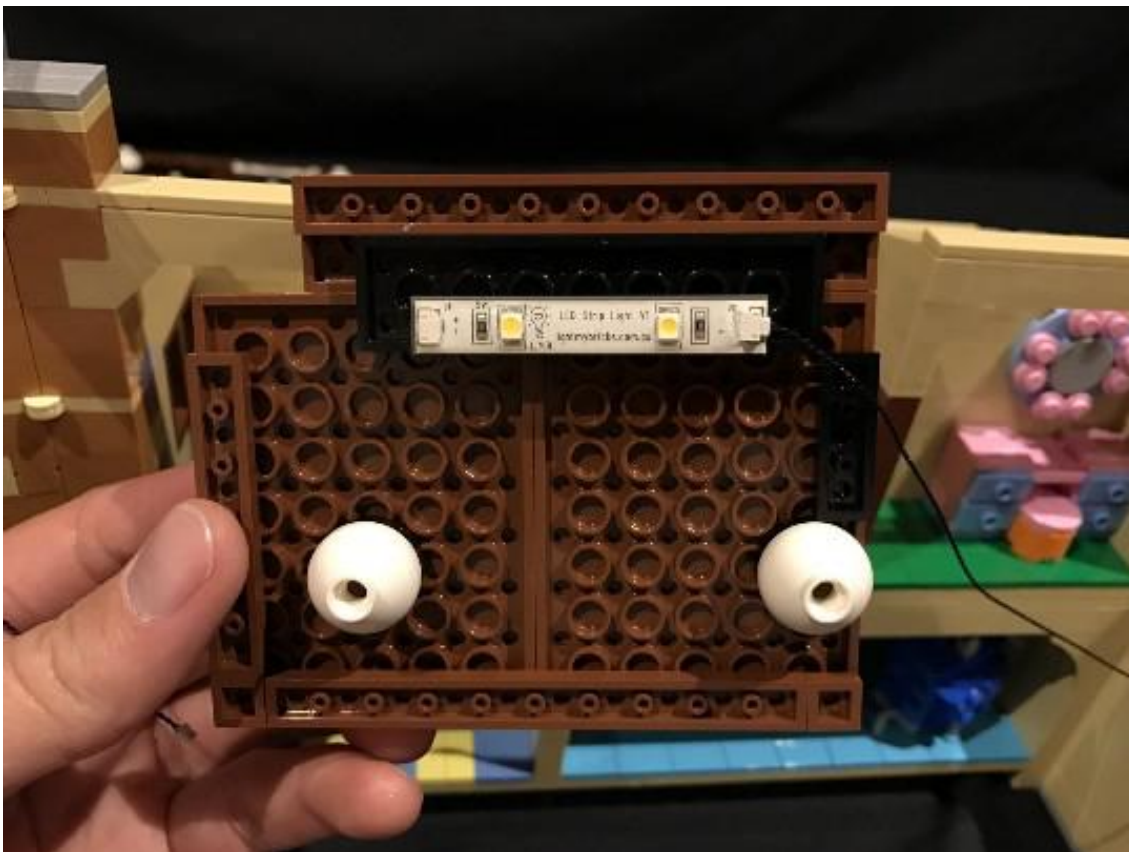




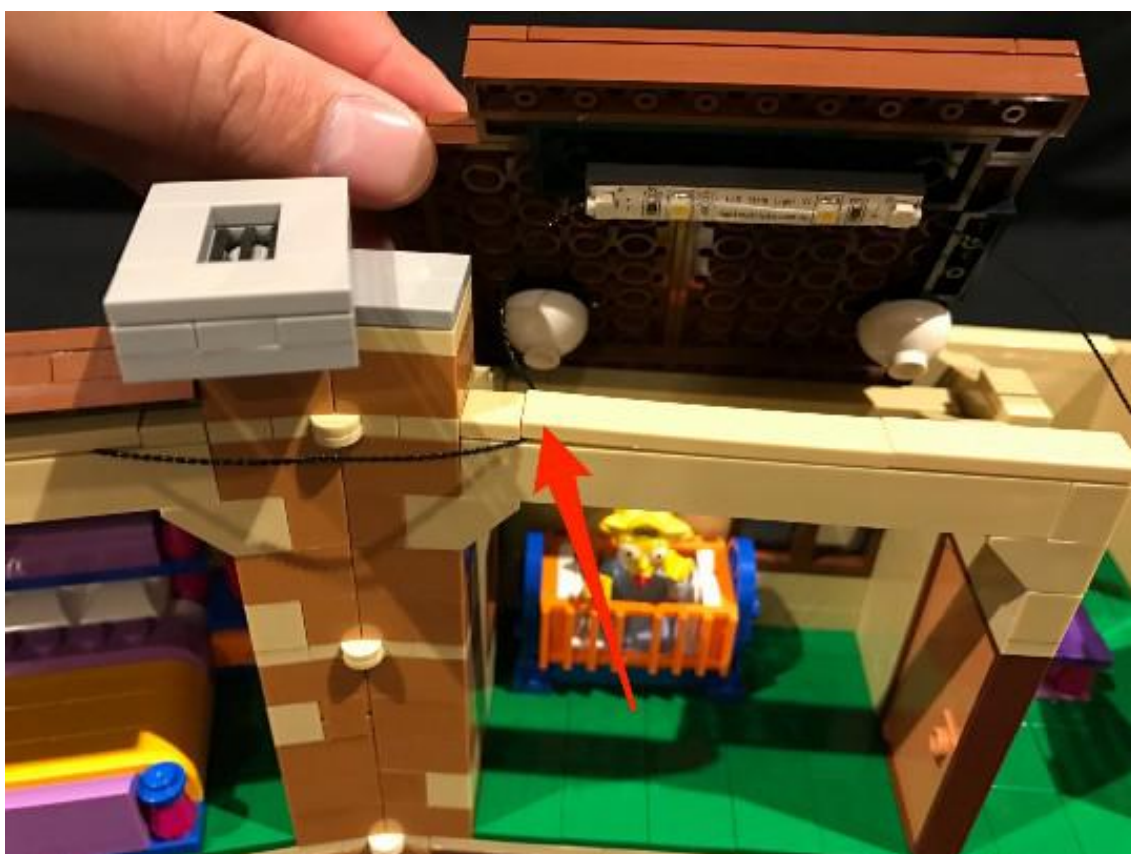
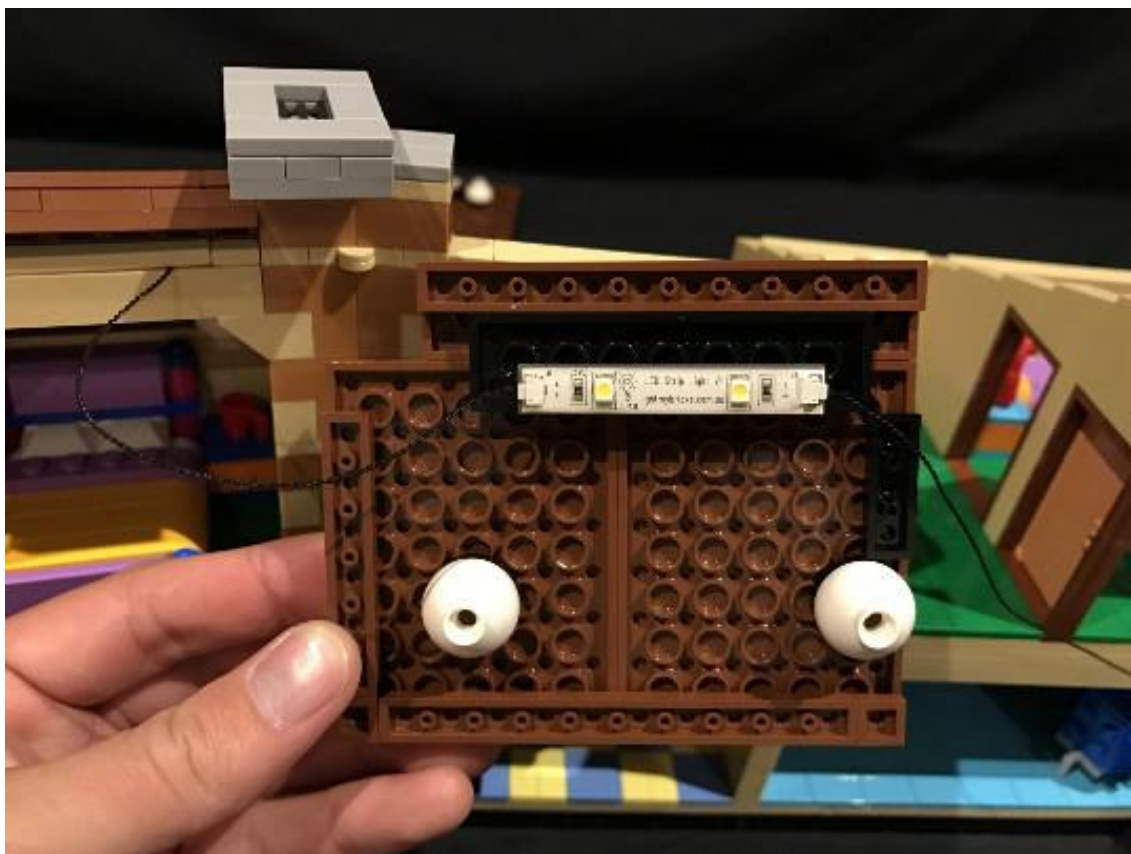
Before reconnecting the roof, secure the 15cm cable from striplight#8 by laying this underneath the tile as shown below. Ensure you leave about 5–6 cm of cable free between this tile and the strip light. To make it easier to do this, you can remove the top of the chimney.



28.) Take the roof above Maggie's crib off and then take another strip light (striplight#9) and connect/stick it to the following position. Then take another 15cm cable and connect it to the right port.



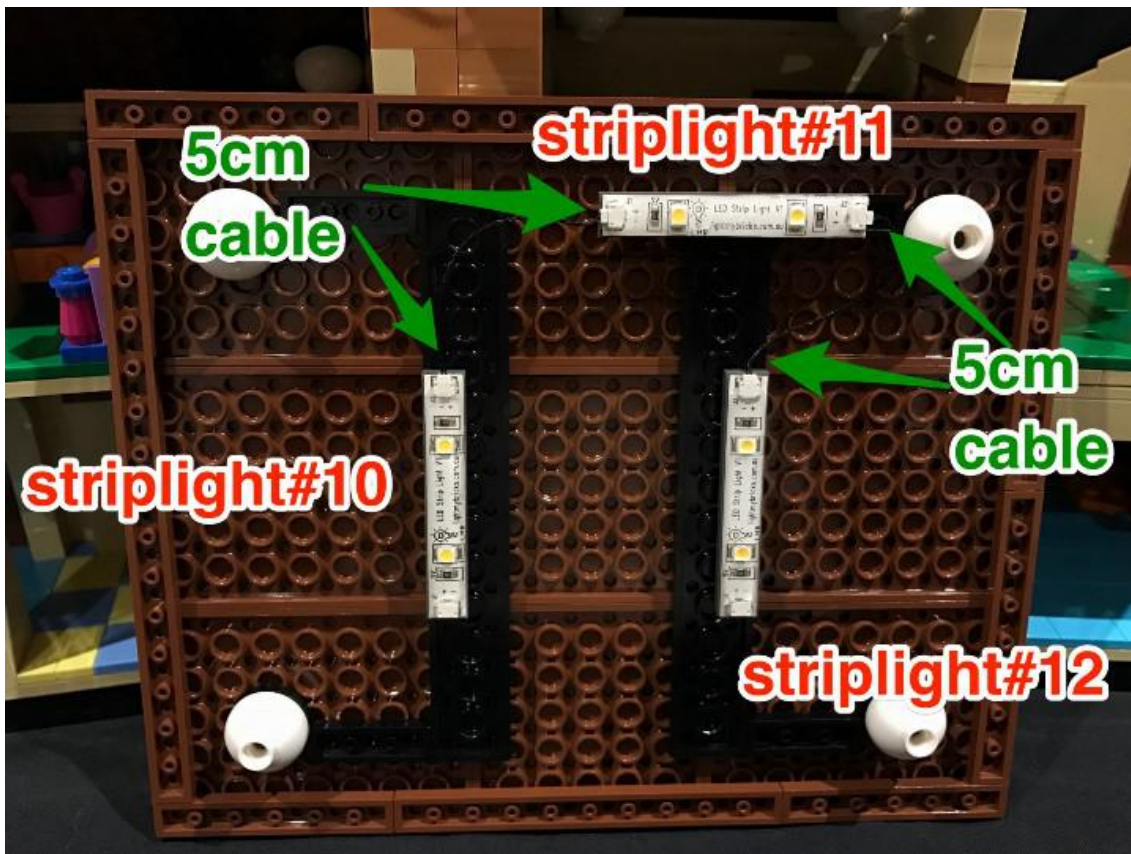
Connect the other end of the cable from striplight#8 and connect this to the left port of striplight#9. Then reconnect the roof back.



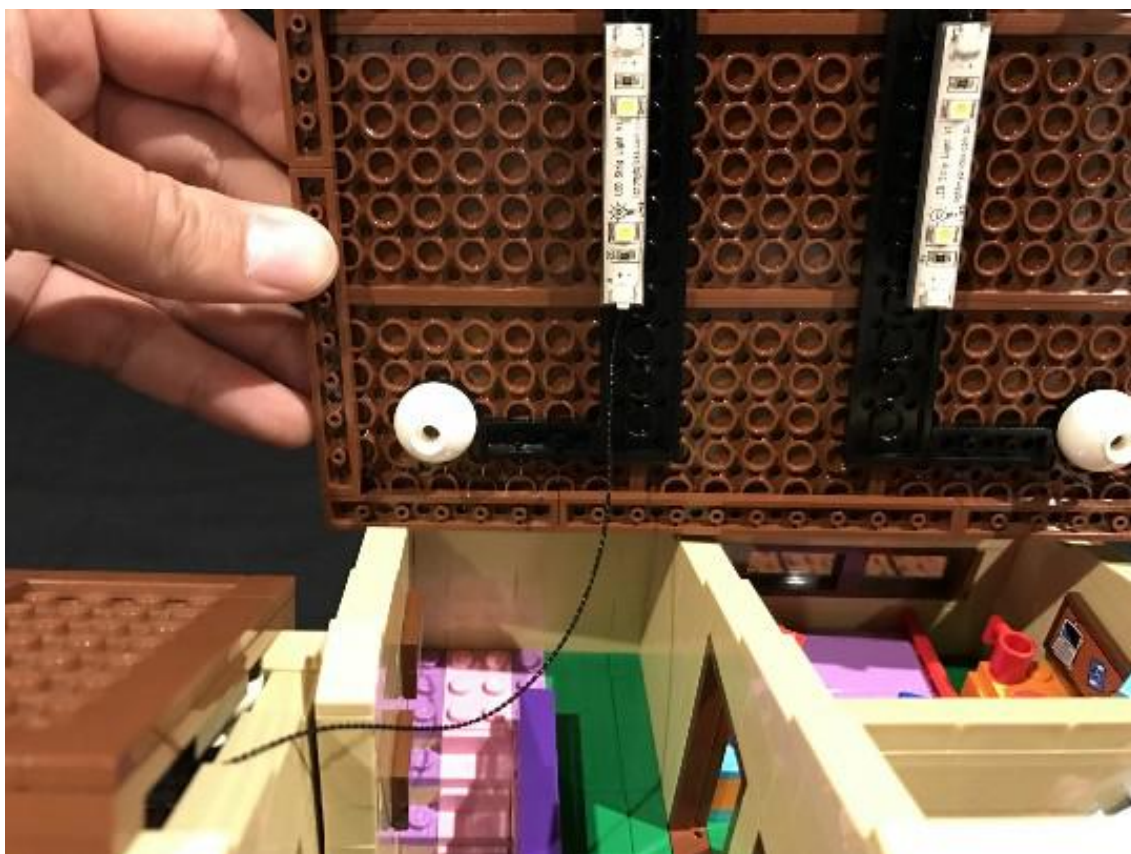
29.) Take the roof off the next section and the connect/stick another 3 strip lights (striplight#10 #11 & #12) to the following positions. Take a 5cm cable and connect it in between striplight#10 and #11 and connect another 5cm cable in between

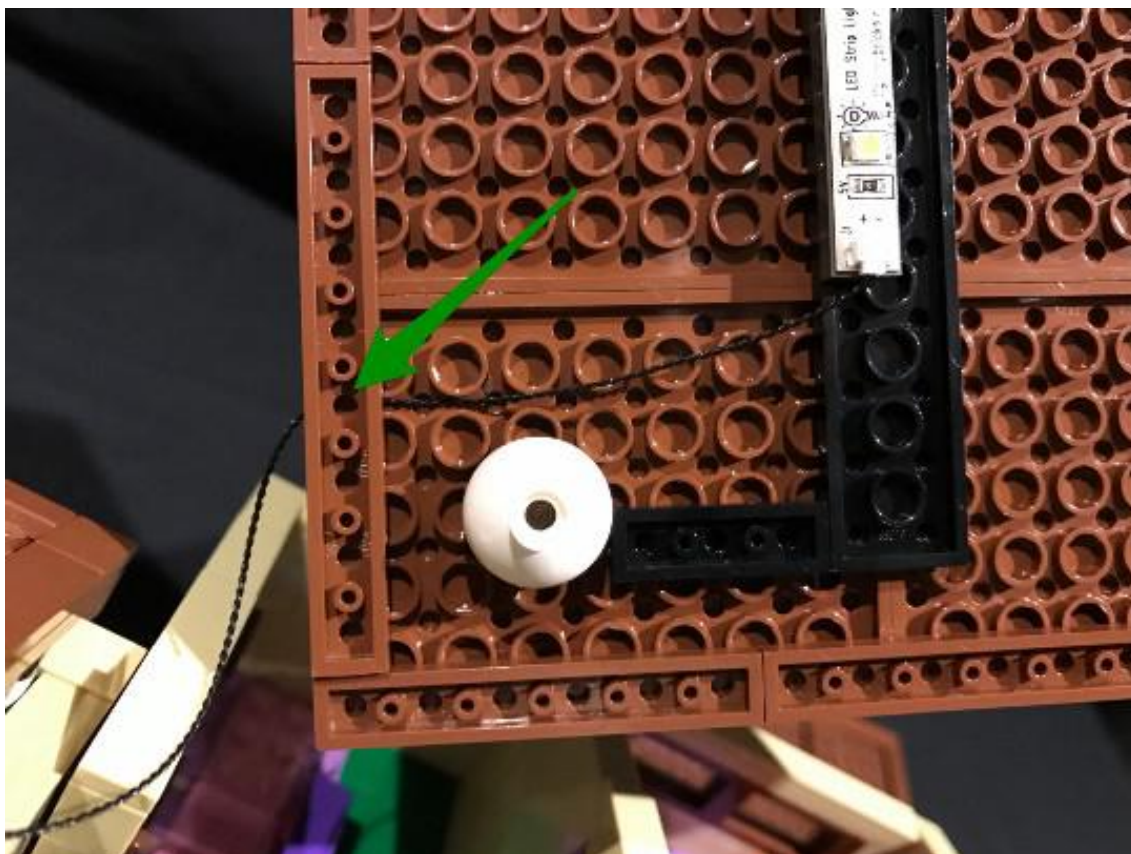


striplight#11 and #12



30.) Connect the 15cm cable from striplight#9 and connect this into striplight#10. Secure the cable in place by laying this underneath the brown plate as shown below





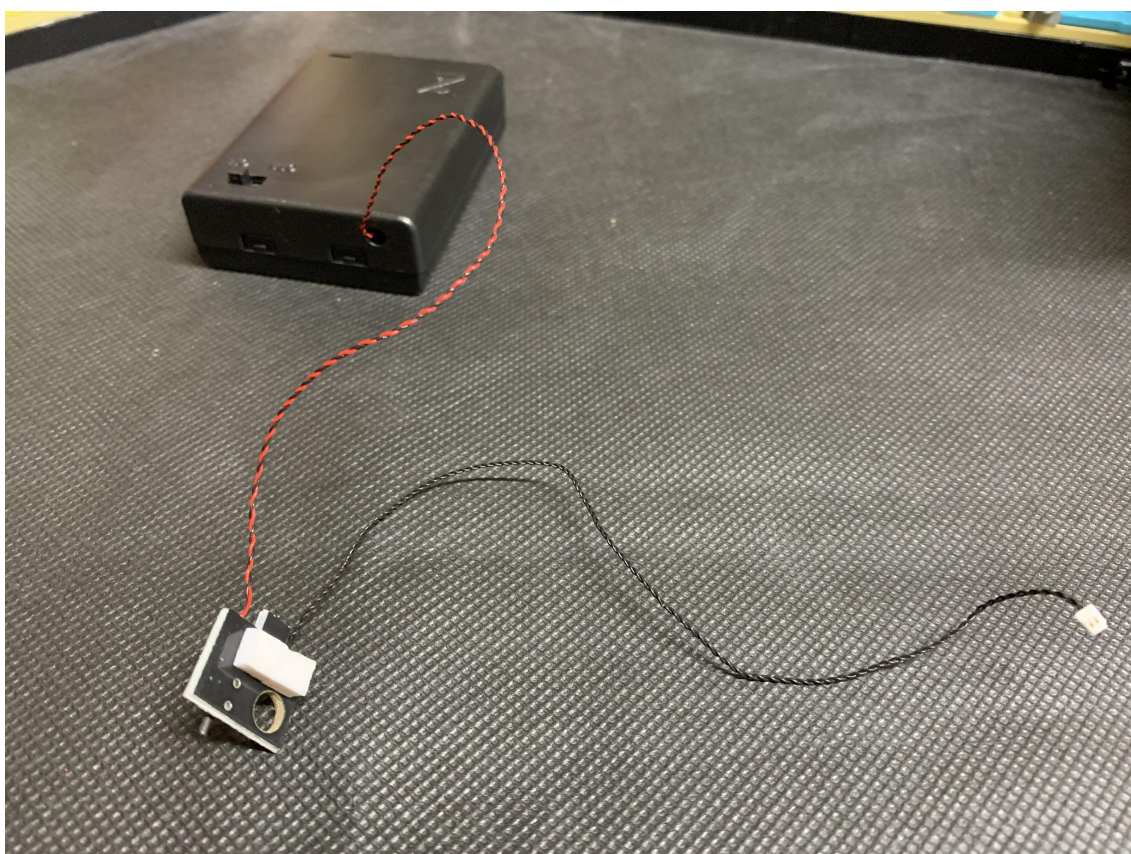
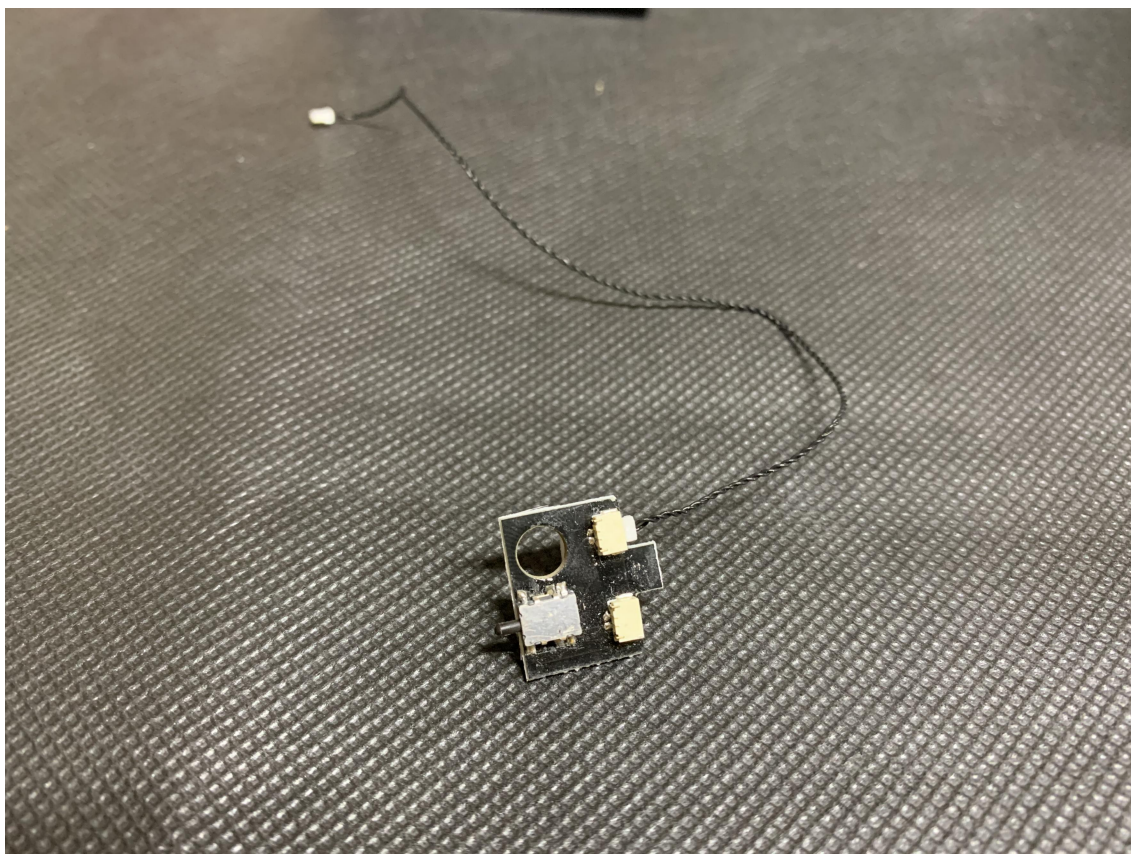
Reconnect the roof.

This completes installation of the Simpsons House LED lighting kit. Turn on and enjoy!

Continue to install the switch

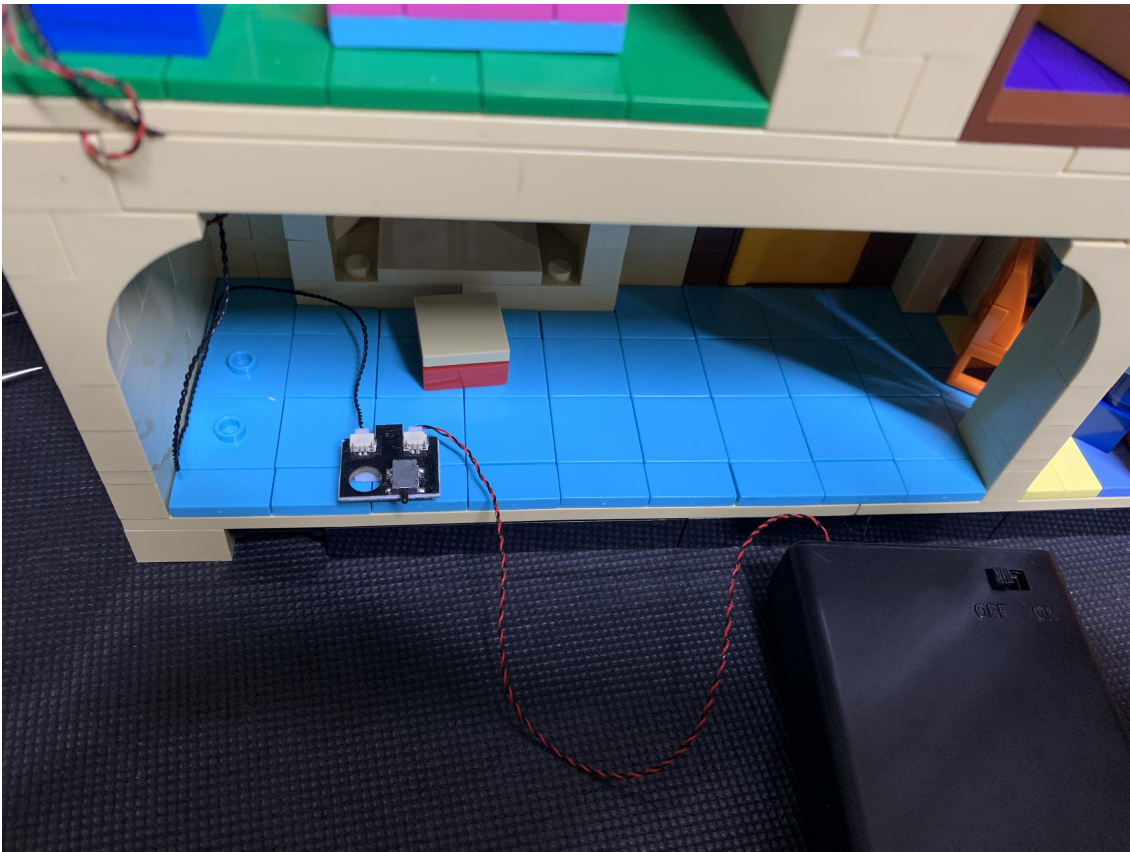
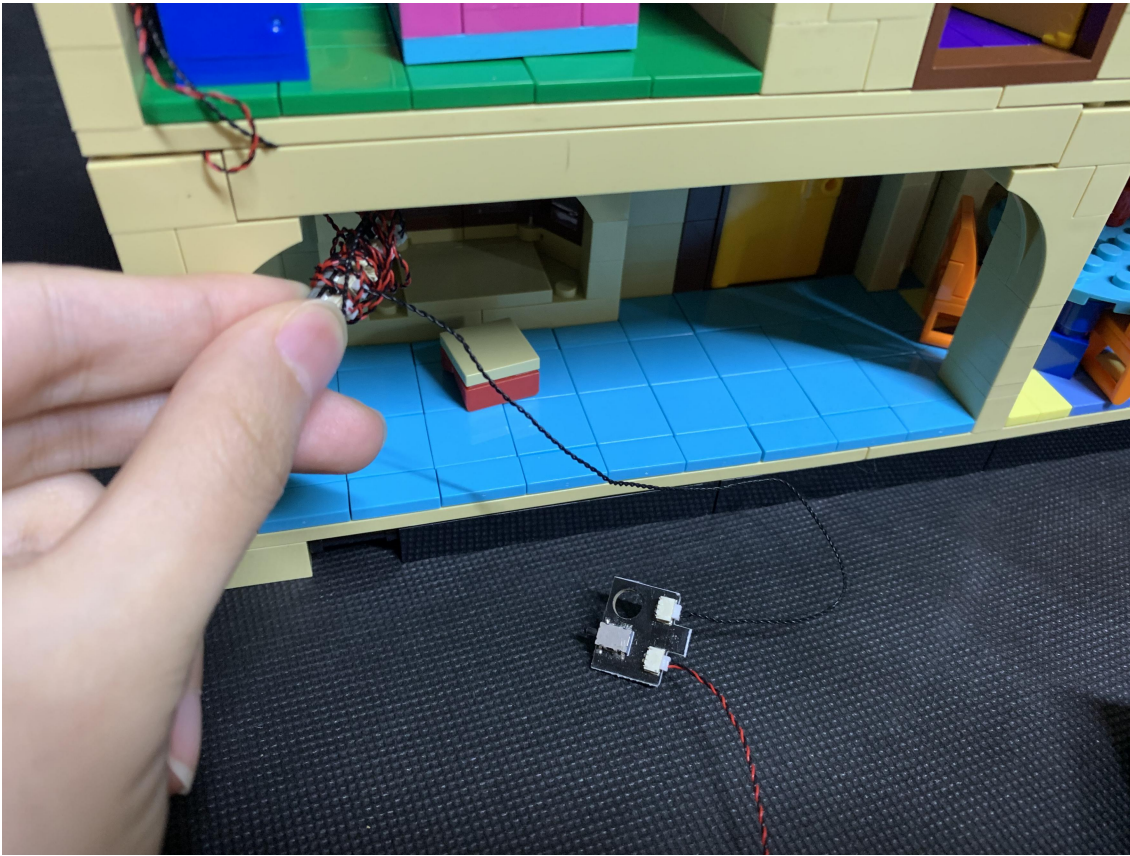
Take the switch and a 15cm connecting cable. Disconnect the battery pack, connect the connecting cable and the battery pack to the switch board, stick an adhesive square to its back





Connect the other end of the connecting cable to the 6-port expansion board at the roof, stick the switch board to the following place





Hide the cable underneath the piano and the battery pack





Take 2 1x1 bricks as per below



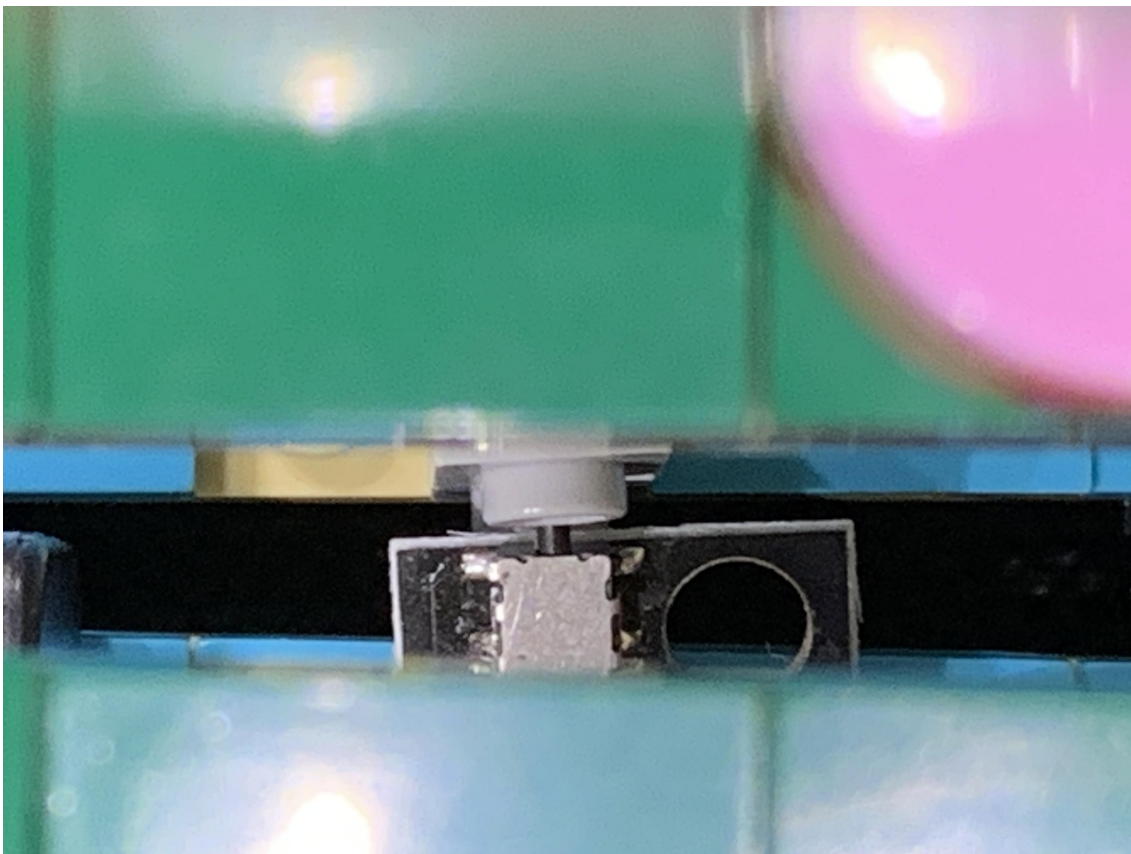
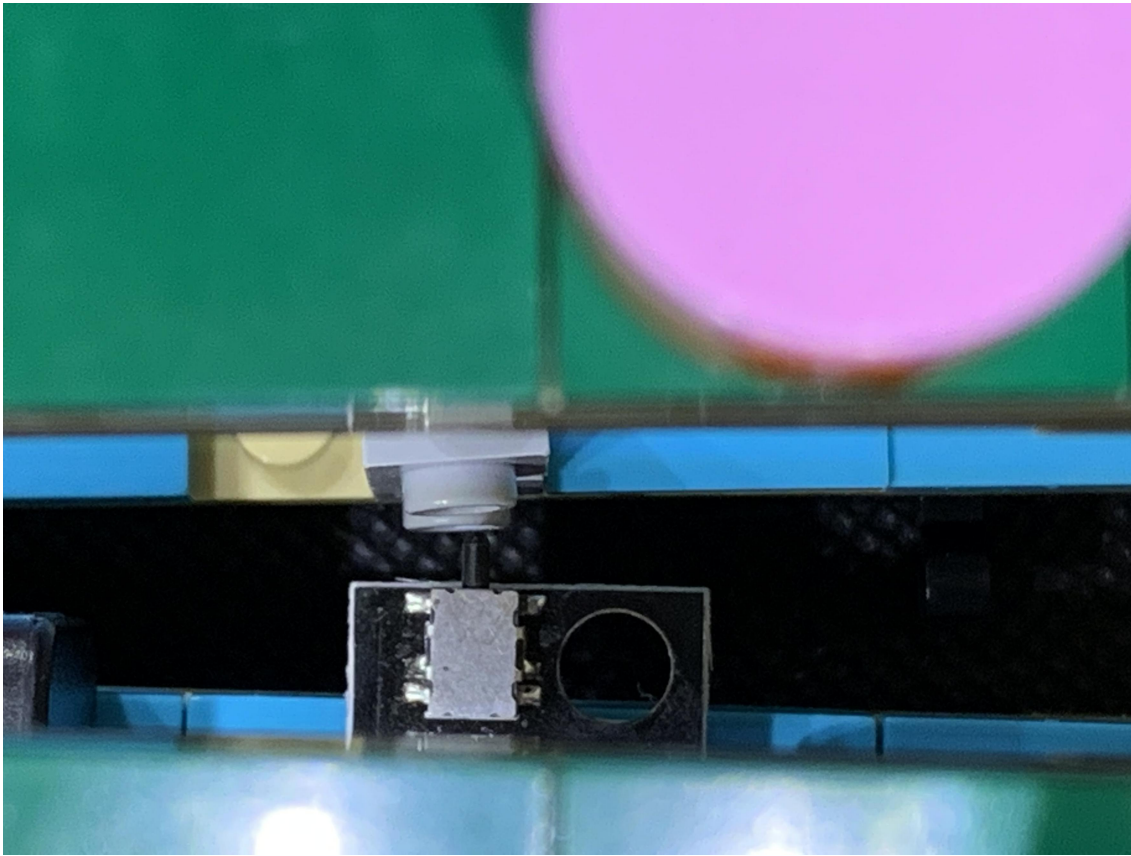
Remove the following 1x2 blue plate, connect the bricks as per below





Turn the power on, reconnect the roof, adjust the position of the switch board so that when we close the house, the lights are turned off.









This completes installation of this LED Lighting Kit. ENJOY!





