

Parisian_Restaurant_10243 LED Lighting Kit

Package contents:

- 4x White Strip Lights
- 9x White 30cm Dot Lights
- 1x 8-port Expansion Board
- 1x 6-port Expansion Board
- 1x Lamp Post with LED and cable attached
- 1x Battery Pack (3x AA batteries not included)
- 4x Double sided Adhesive squares
- 4x LEGO Plates 1x6 (for mounting strip lights)

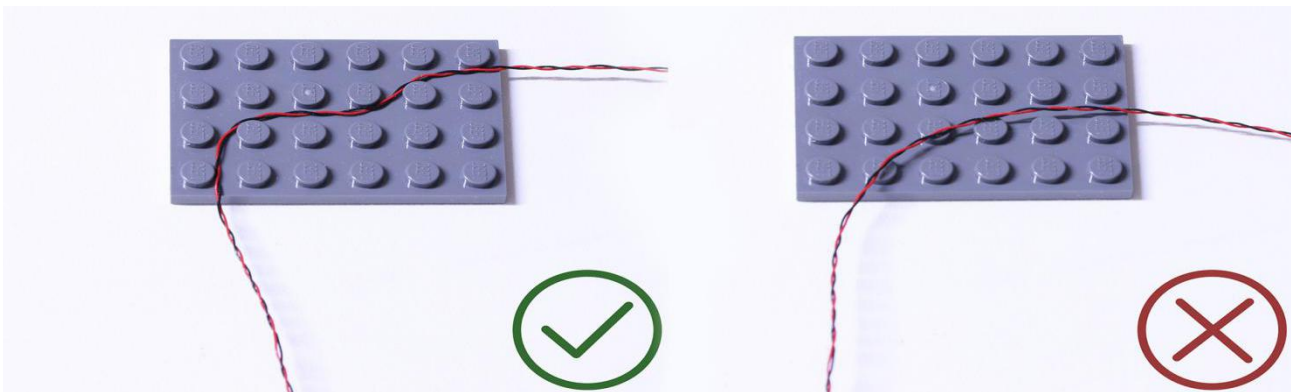
Connecting Cables

- 3x 15cm cable
- 2x 30cm cable

Note:

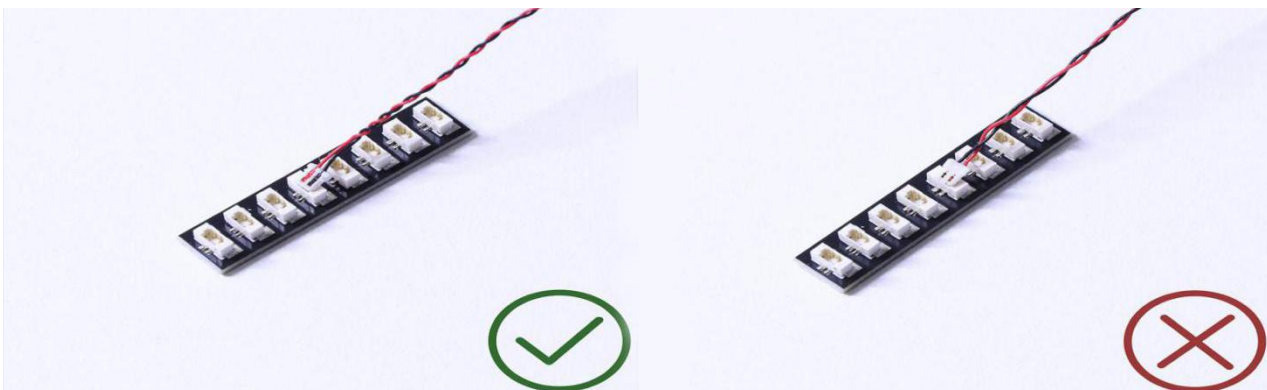
Place wires on the surface or under the LEGO building blocks.

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

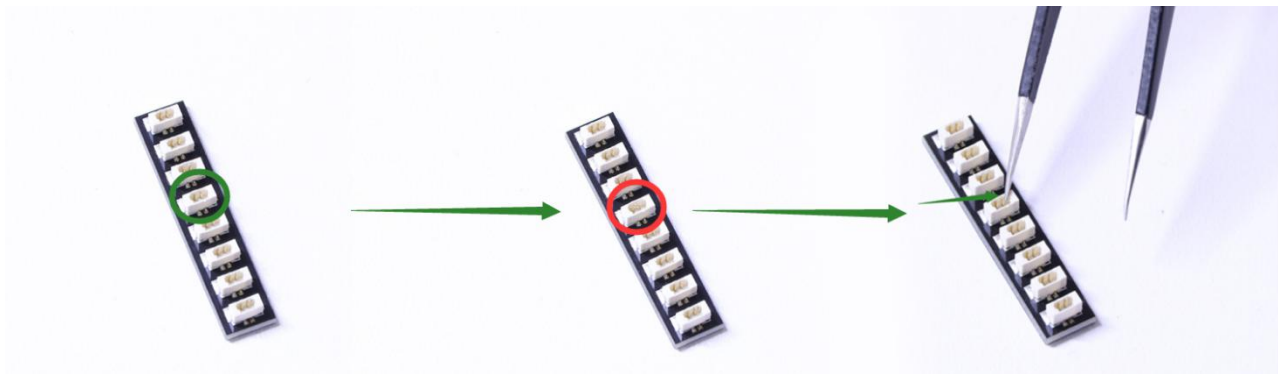


Insert the connectors to the ports.

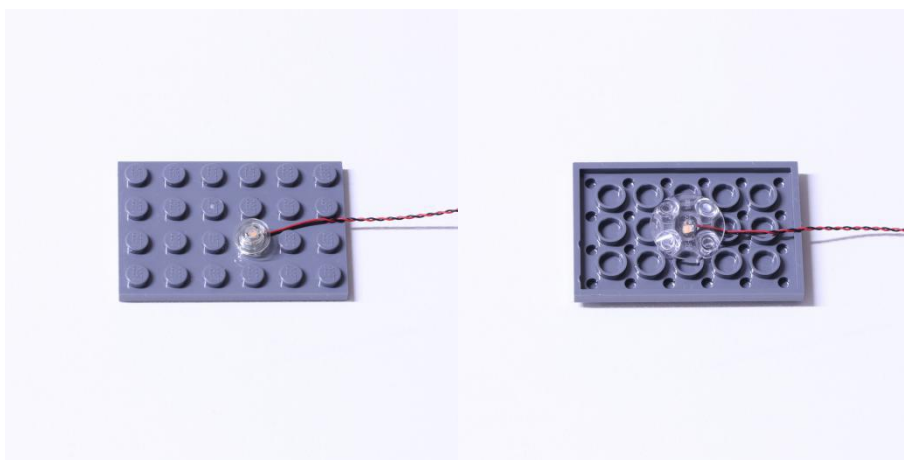
Be careful when you are operating, there's only one correct way to insert, make sure the expansion board is upward, find the soldered "=" sign on the left of the port. When you are inserting, the side which the wires can be seen should be faced to the "=" sign and if you feel hard to insert, please stop,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



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

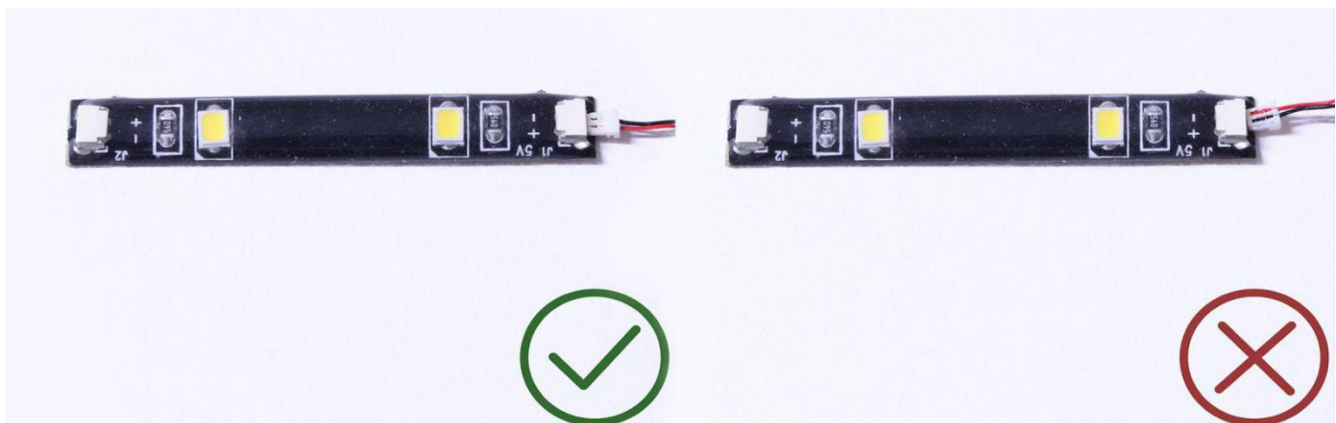


When installing dot lights, make sure they are correctly placed (Yellow LED package is exposed). You can put them either on the top of the studs or between studs.



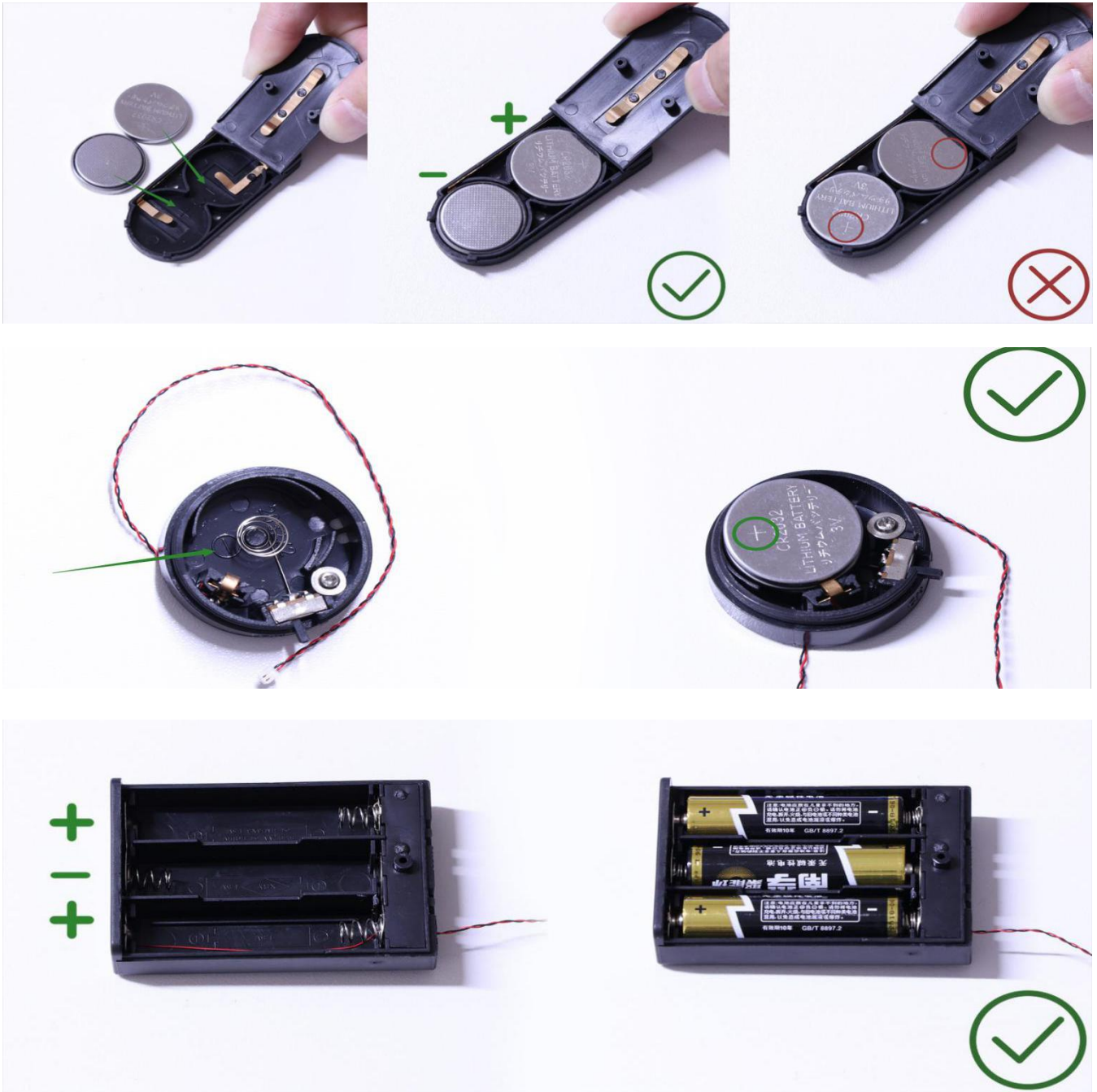
Connecting cable connectors to Strip Lights

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 this kit

1.) This lighting kit is installed from the bottom up. Start by removing the 2nd and top levels of the modular building. To enable us to lay the cable for the lamp post underneath the brick tiles, remove the following tiles as per below.

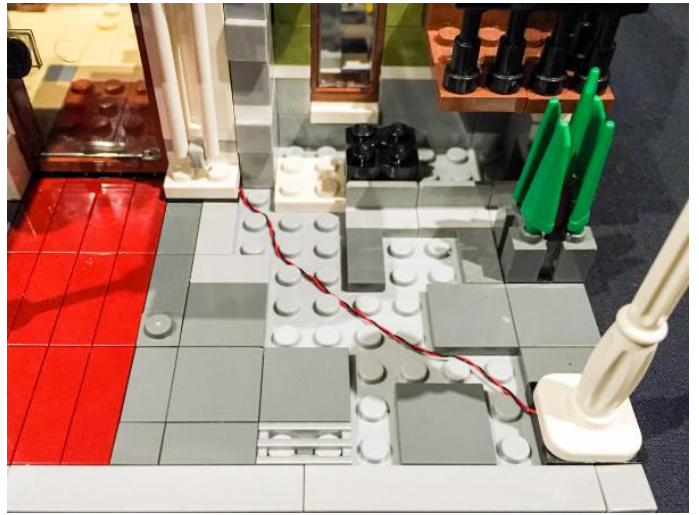
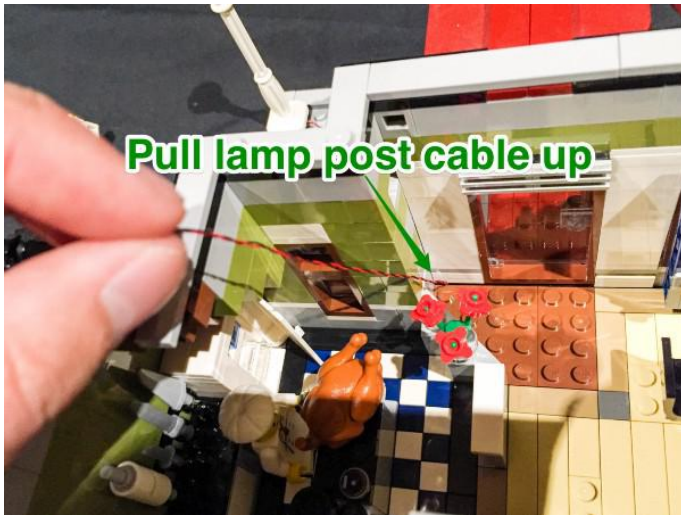


2.) Replace the stock lamp post with the Vonado lamp post ensuring that the cable is laid in the middle of the black 4x1 brick.

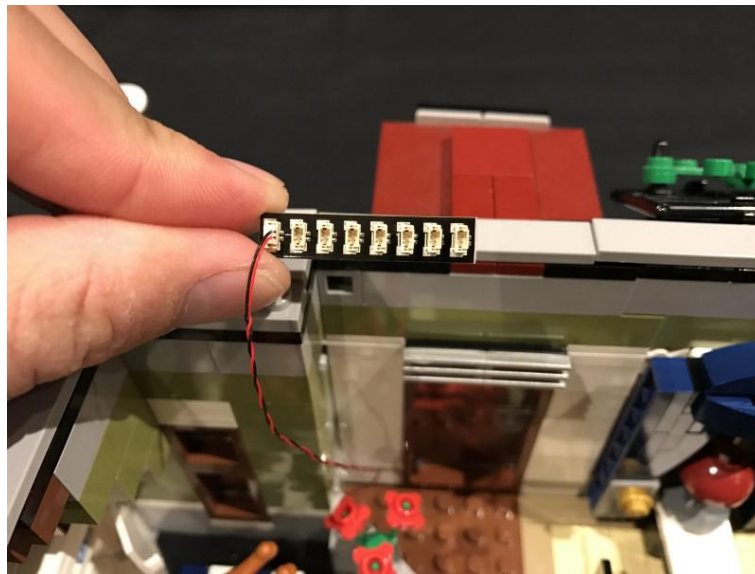


3.) Gently bend the base plate down and lift the building of the ground floor up and thread the cable for the lamp post underneath the brick wall. Ensure that the cable is laid in between the brick connectors as pictured below.





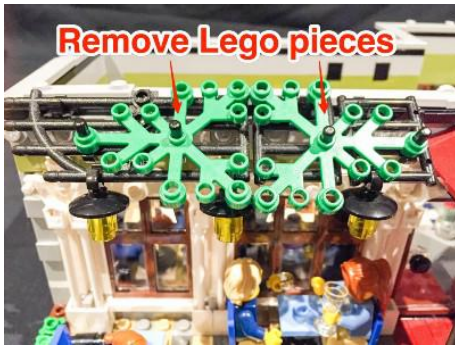
4.) Connect the lamp post cable to the 1st available port of **the 8-port expansion board**.



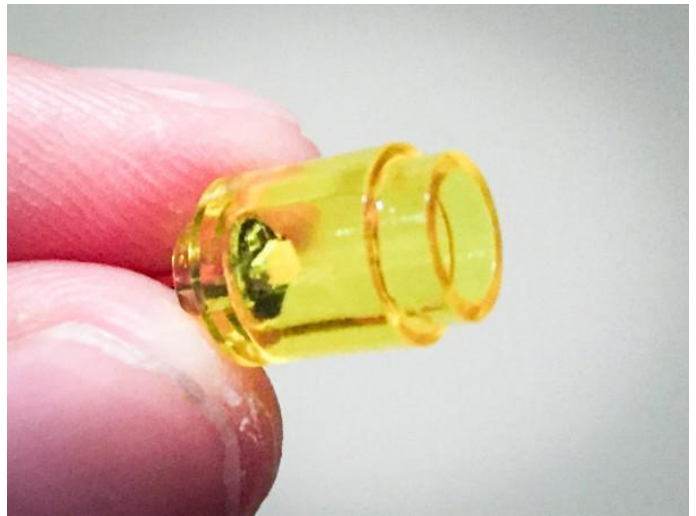
5.) Replace the brick tiles we removed in step 1. They should connect comfortably over the top of the lamp post cable.



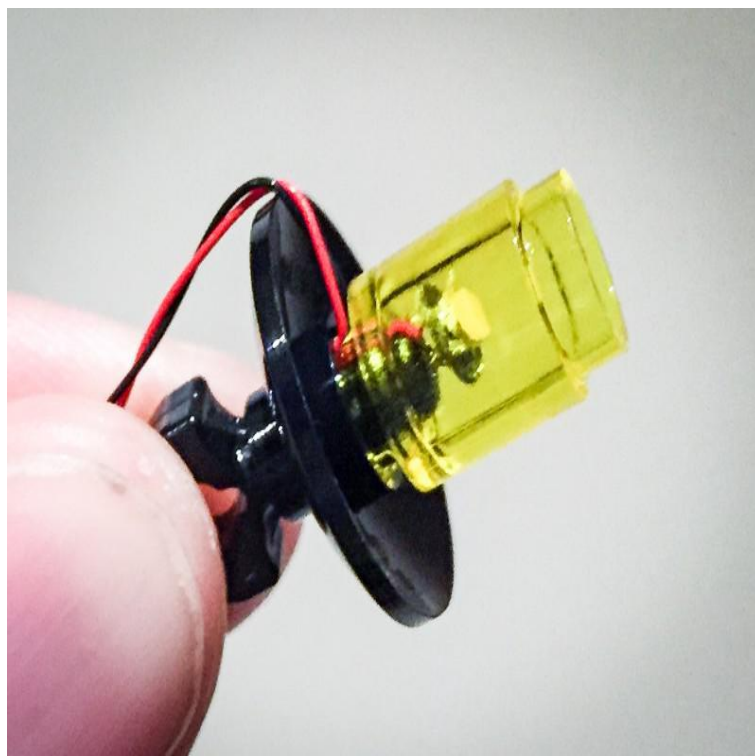
6.) We are now going to connect 3 Dot Lights to light up the roof lamps. Remove the Lego fern pieces on the roof of the ground floor and then remove one of the lamp pieces.



7.) Remove the black lego piece connected to the transparent yellow piece. Take one of the Dot Lights and thread the cable from the connector side up through the larger hole of the yellow transparent Lego piece. Thread this all the way until the Dot Light part is inside the Lego piece.



8.) Connect back the black Lego piece you removed in the previous step. Do not force this to connect as this may pull the Dot Light away from the cable and damage the Dot Light. Instead, let the back of the Dot Light slide down as you connect the black piece back.

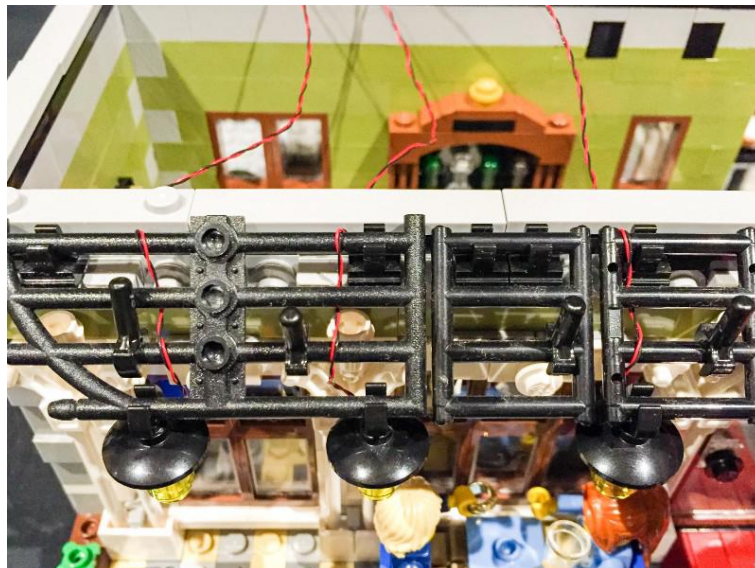


9.) Using the connector end of the Dot Light, thread this through the roof bars and then use the grey Lego tiles to secure the cable.



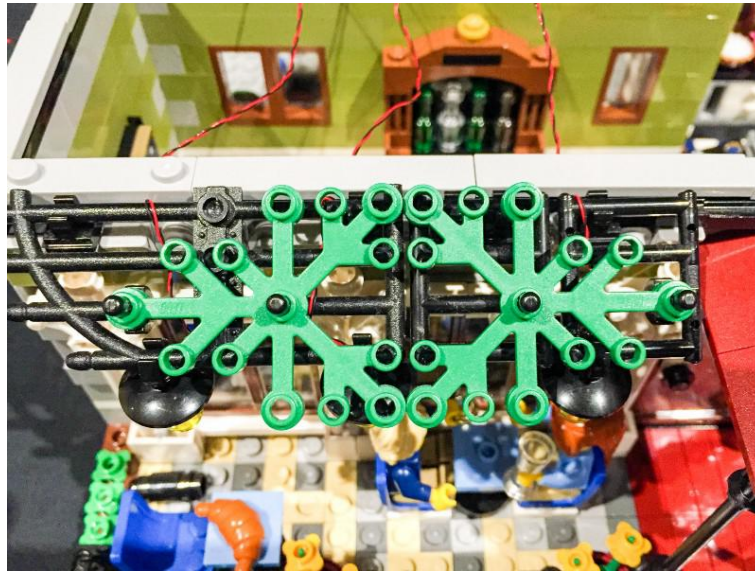
When securing cables underneath Lego bricks, remember to lay the cabling between brick connectors

10.) Repeat steps 7, 8, and 9 for the 2nd and 3rd roof lamps

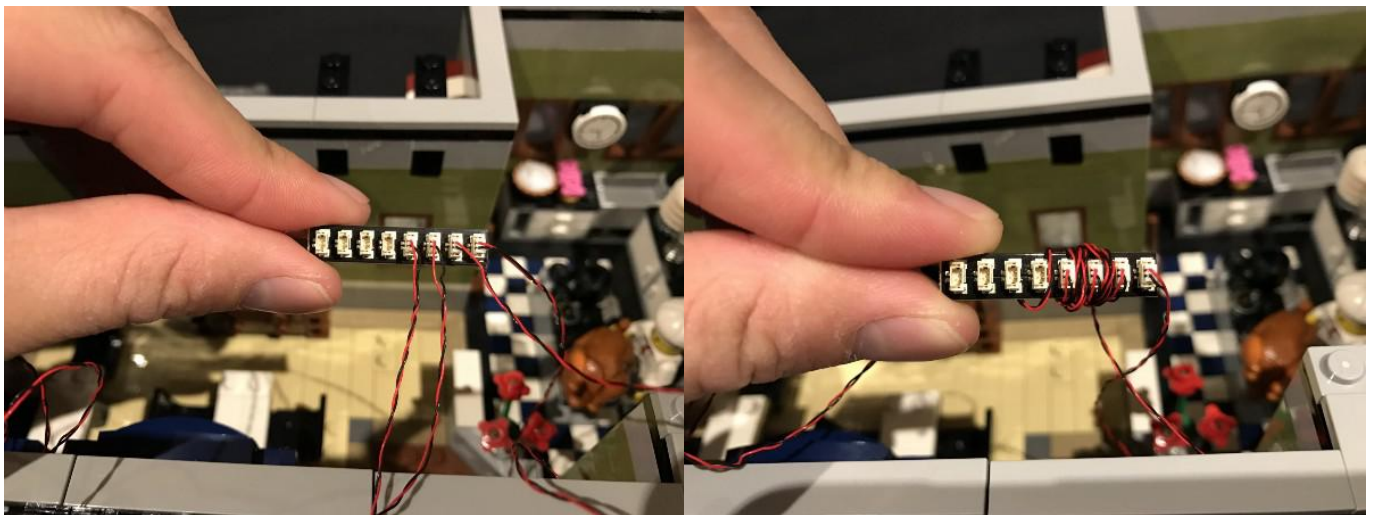


Use grey Lego tiles to secure the 3 cables

11.) Reconnect the green Lego fern pieces to the roof



12.) Connect the cables from the 3 Dot Lights we just installed to spare ports of the 8-port expansion board then wind the 3 cables from the Dot Lights around the board to eliminate excess cable.



13.) Turn the building around to the back and then take one of the provided adhesive squares to stick the expansion board to the top of front wall of the ground floor.



To prevent messy cables from being seen on the outside looking in, hide the cables underneath the grey Lego tiles. You can also use tape to stick the cables to the walls.

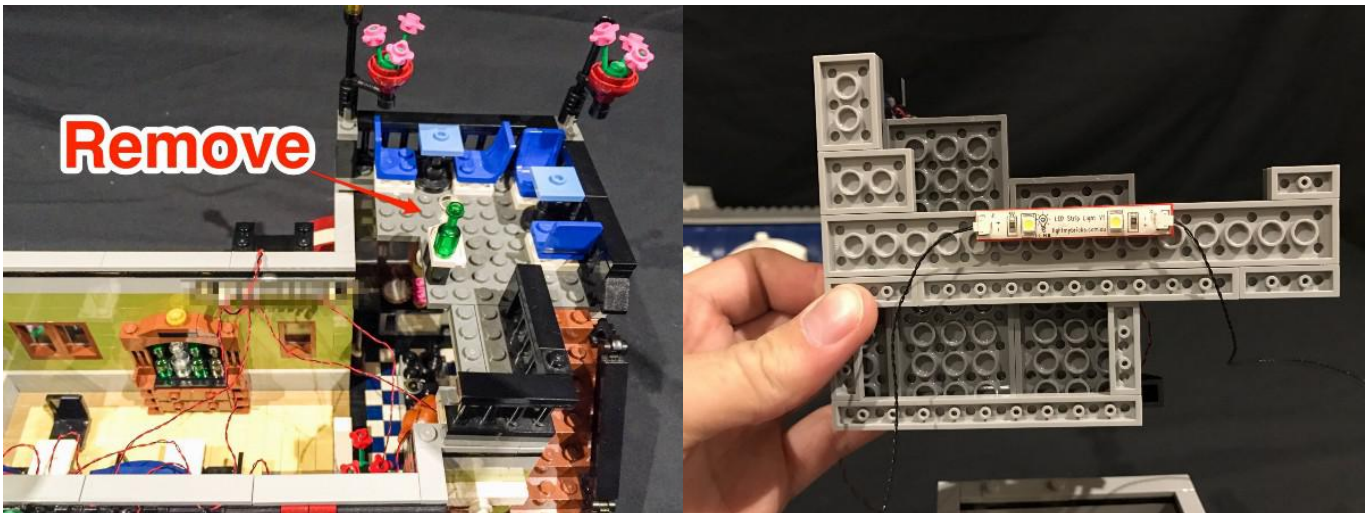
14.) Take the battery pack and insert 3x AA batteries into it. Place the battery pack behind the building against the wall as per below and then connect the battery cable into another spare port of the expansion board.



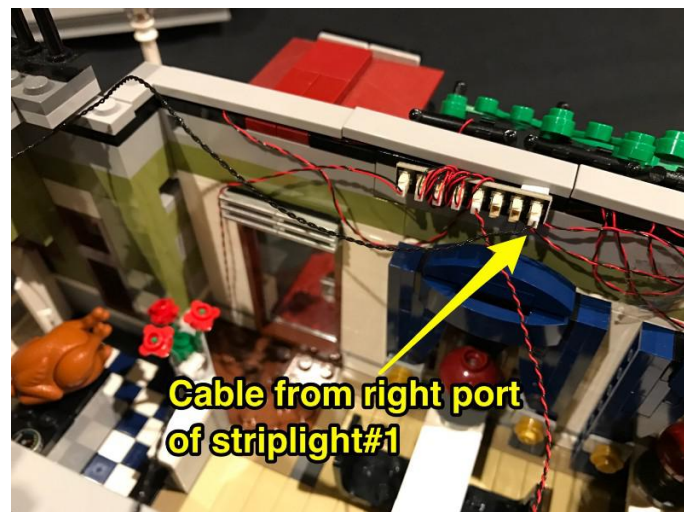
Secure the battery pack and to prevent it from moving around by connecting the garbage tip and garbage bin right up against the back and side of it. Secure the battery cable by laying this underneath the grey Lego tile closest to the battery pack.



15.) Remove the section directly on top of the kitchen. Carefully flip this section over so that we can connect a strip lights underneath. Take 1 LED strip light (**striplight#1**) and connect a 15cm connecting cable to each port (2 connecting cables in total). Then connect striplight#1 on the bottom of this section in the following position.

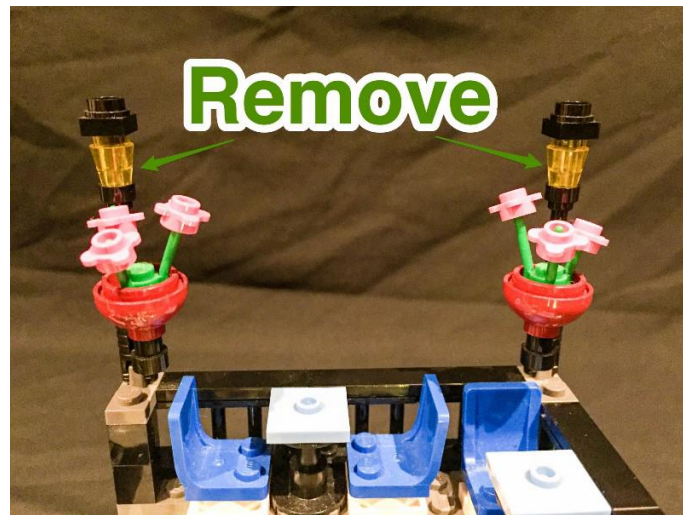


16.) Place this section we removed back on top of the ground floor and then connect the 15cm connecting cables from right port of striplight#1 to the another spare port on the expansion board. Keep the other 15cm cable spare as this will connect to a strip light later.

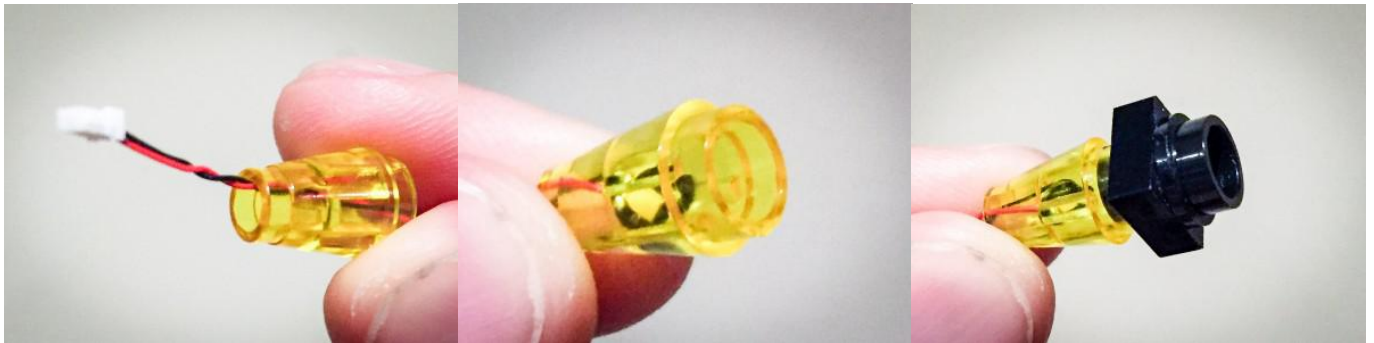


17.) We will now connect the lights for the lamp posts on the 2nd level balcony. Start by removing the

Lego pieces which make up the 2 lamps. You only need to remove the yellow transparent pieces.



18.) Using a Dot Light, thread the connector side of the cable through the larger hole of the yellow Lego piece. Thread this all the way through until the LED part is sitting comfortably inside the Lego piece, then connect the top of the lamp post (black Lego pieces) back on top of the yellow piece.



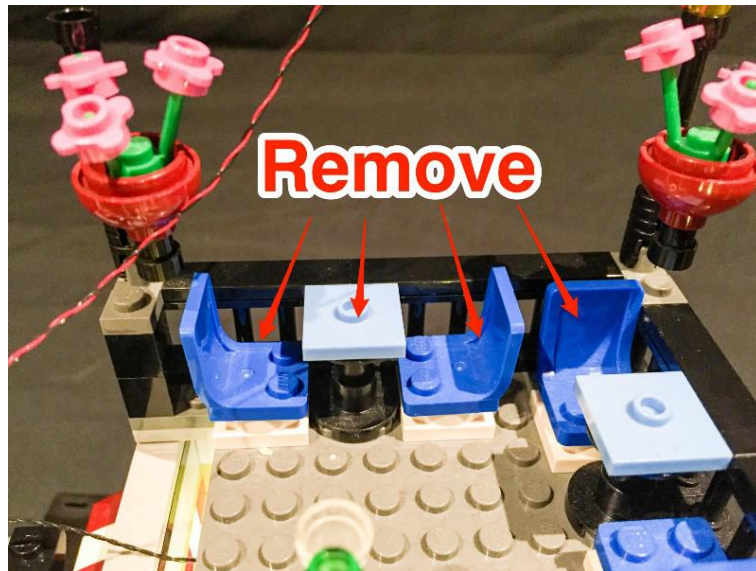
Pull the cable all the way through

Repeat this process for the other lamp post.

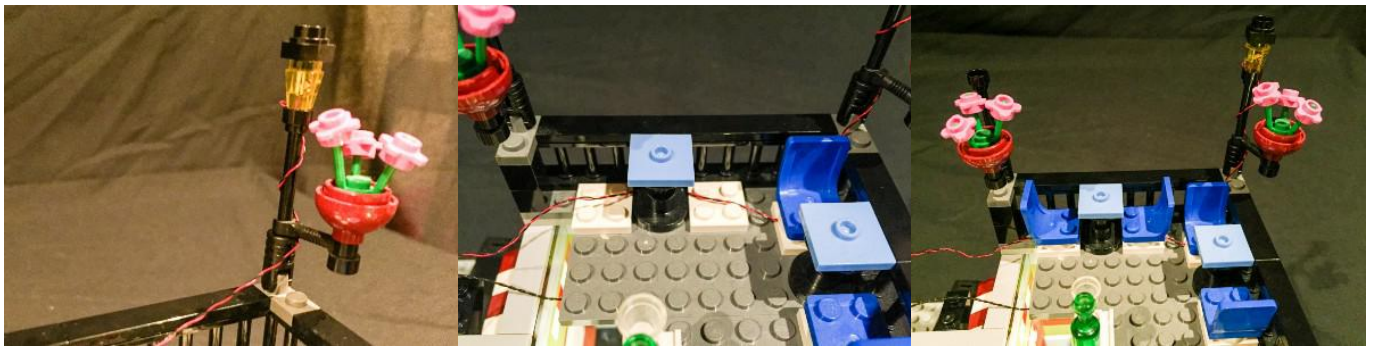
19.) Connect the lamp back to the lamp post. The cable should be able to fit comfortably in between the lamp and lamp post like below.



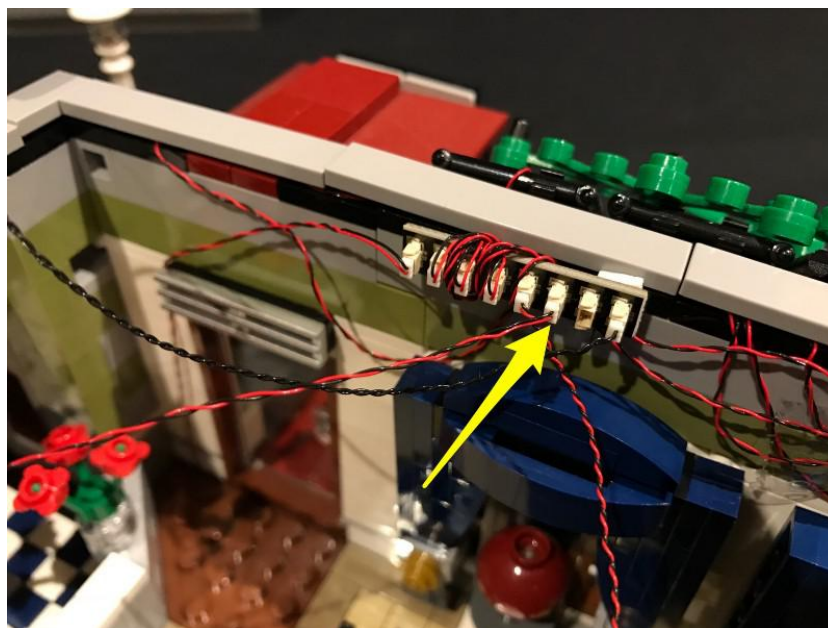
20.) Remove the following pieces of the balcony so that we can lay the cable from the lamp post LED behind the table and chairs.



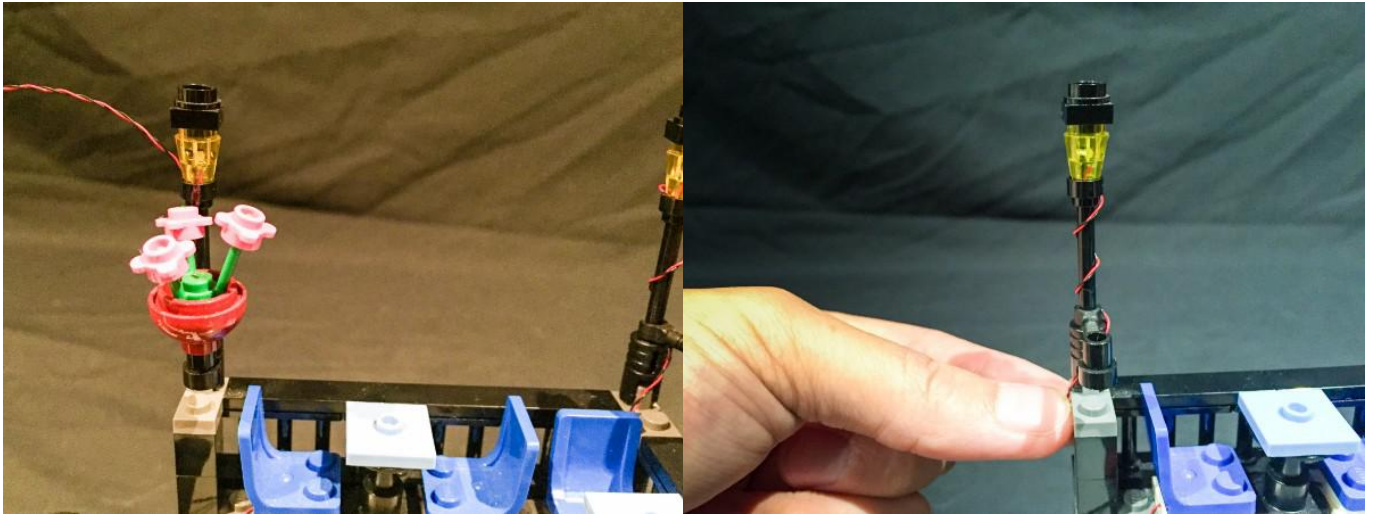
21.) Wind the cable for the Dot Light around the lamp post 2 - 3 times and then lay the cable down so that we can connect back the pieces we removed in the above step to secure this cable down.



22.) With the cable for the first lamp post on the balcony secure, we can now connect this into a spare port of the expansion board below.



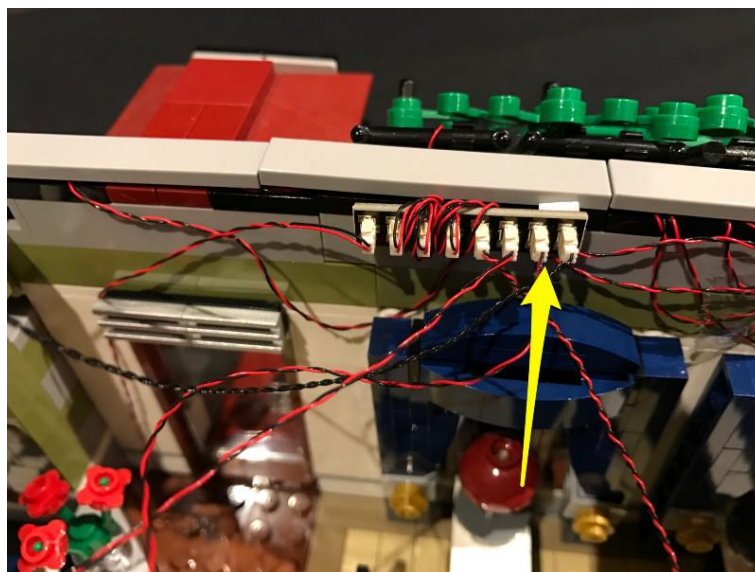
23.) Connect the second lamp with Dot Light installed onto the second lamp post and then wind the cable around the lamp post 2 - 3 times as you did for the first lamp post above.



24.) Use the grey Lego tiles on the top of the ground floor to secure the cable from the lamp post LED and to hide any excess cable.



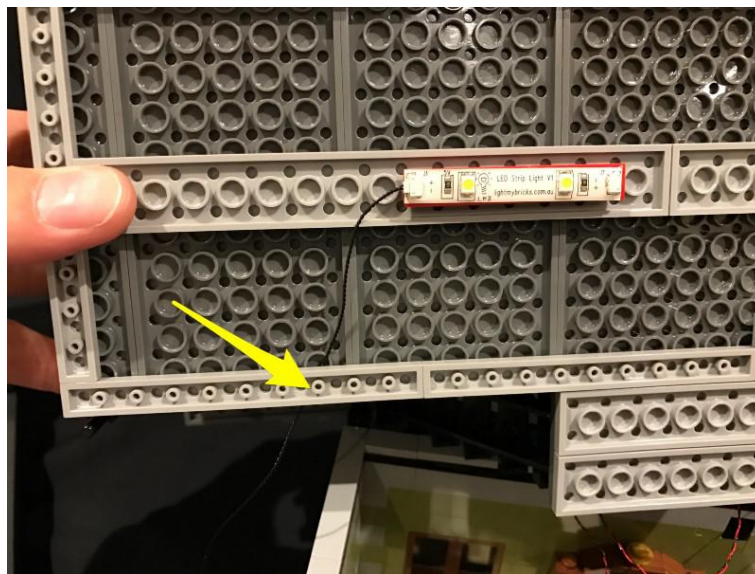
25.) Connect the cable of the Dot Light into the final spare port on the 8-port expansion board



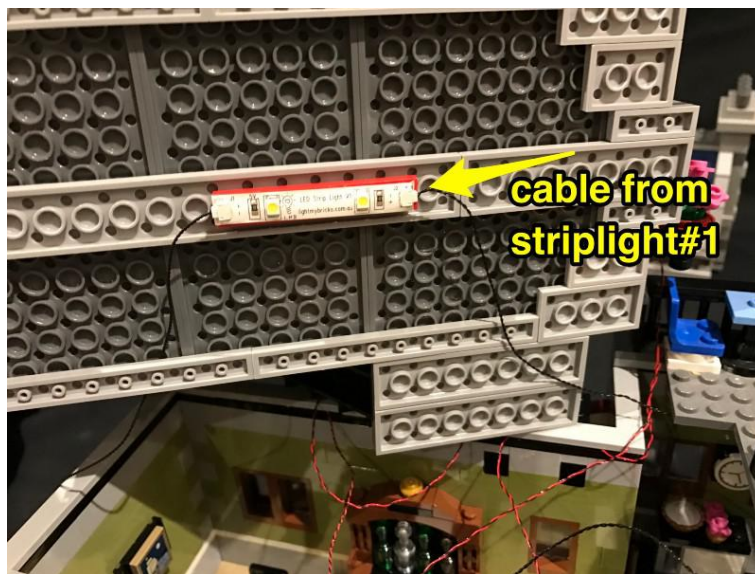
26.) Take the 2nd floor and flip it over and then take a **30cm connecting cable** and connect it to the left port of another strip light (**striplight#2**), then connect the strip light to the following position below.



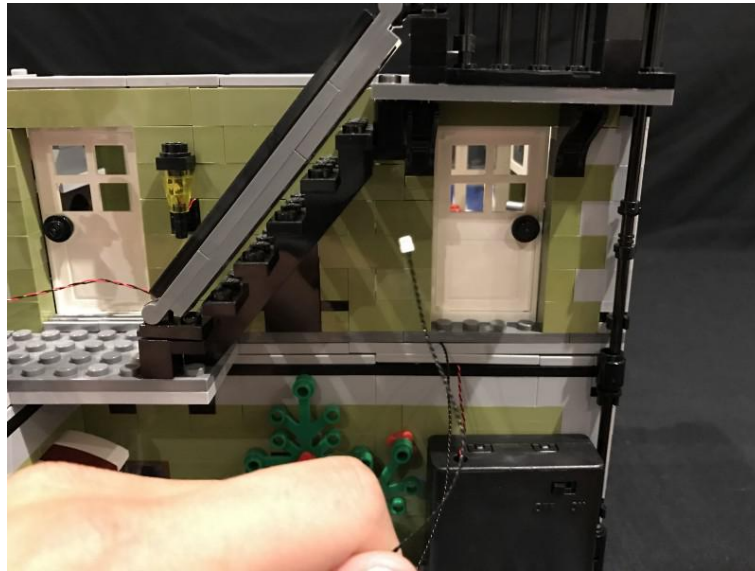
Secure the connecting cable in place by laying this underneath the grey lego plate as per below.



27.) Take the spare 15cm cable from striplight#1 and connect this into the right port of striplight#2.



28.) Reconnect the entire 2nd floor back on top of the ground floor ensuring the 30 cm cable is sticking out the back.



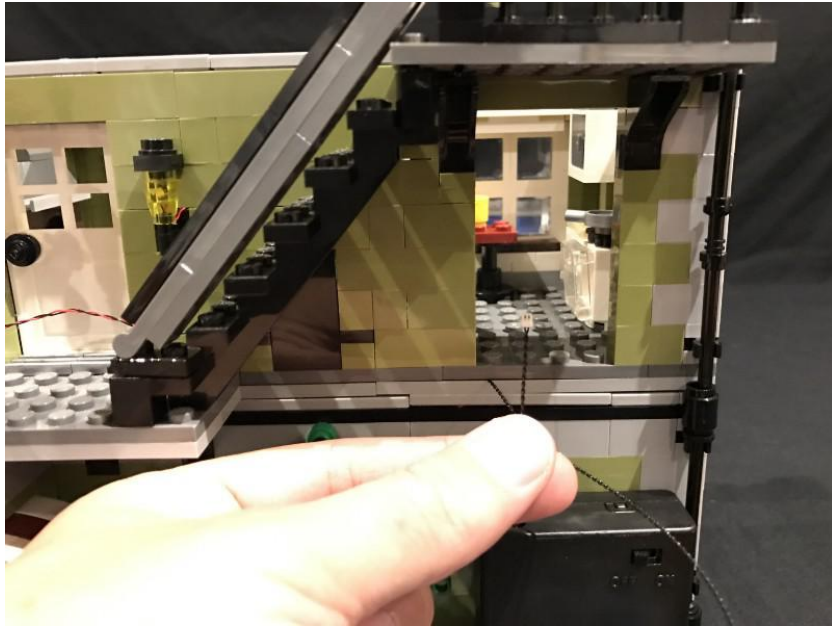
29.) We will need to thread the cable through the door way. First remove the Lego pieces which make up the balcony rail.



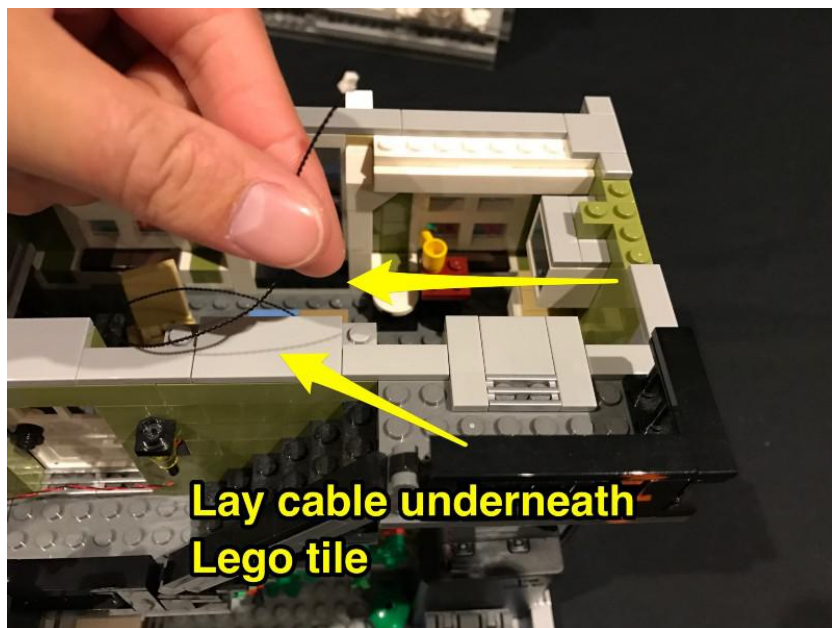
Looking at level 2 from above, remove the following Lego pieces to then allow us to remove the door.



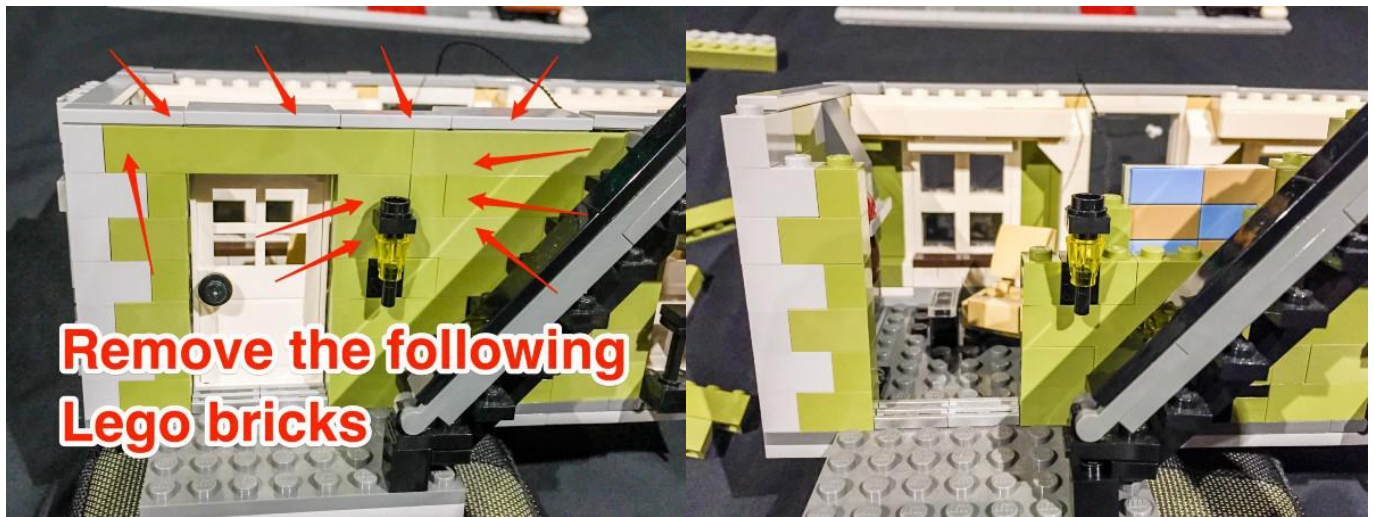
30.) Thread the 30cm cable through the door way and then reconnect the Lego door, and other pieces we removed earlier. Ensure that the cable is laid in the bottom left corner in between studs.



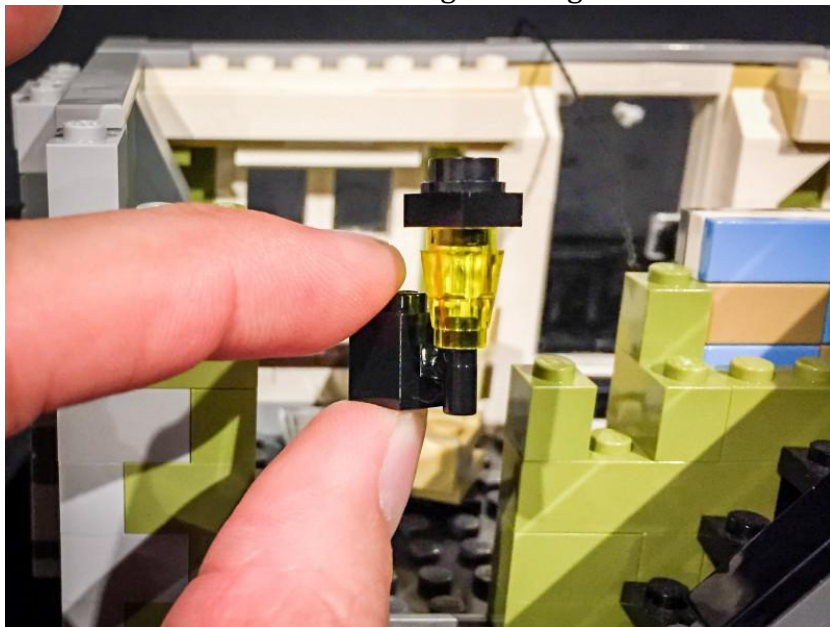
31.) Lay the 30cm cable across the left side of the top of the door way and hide it underneath the 2x4 flat Lego tile.



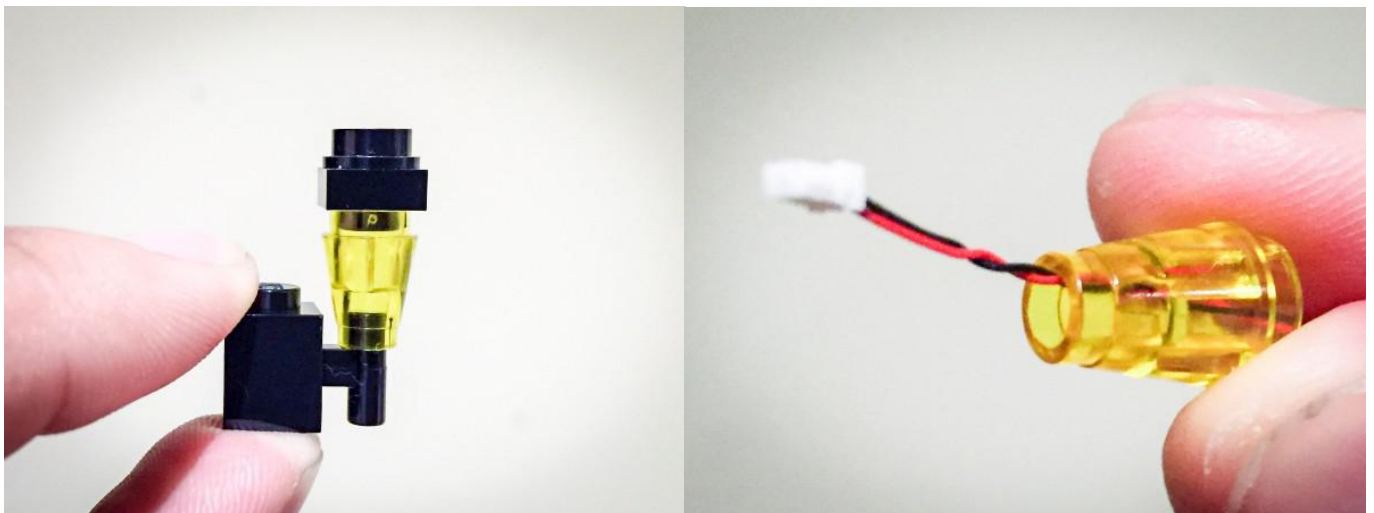
32.) In order to install the light for the door lamp on level 2, we will have to remove the following Lego pieces surrounding the door.

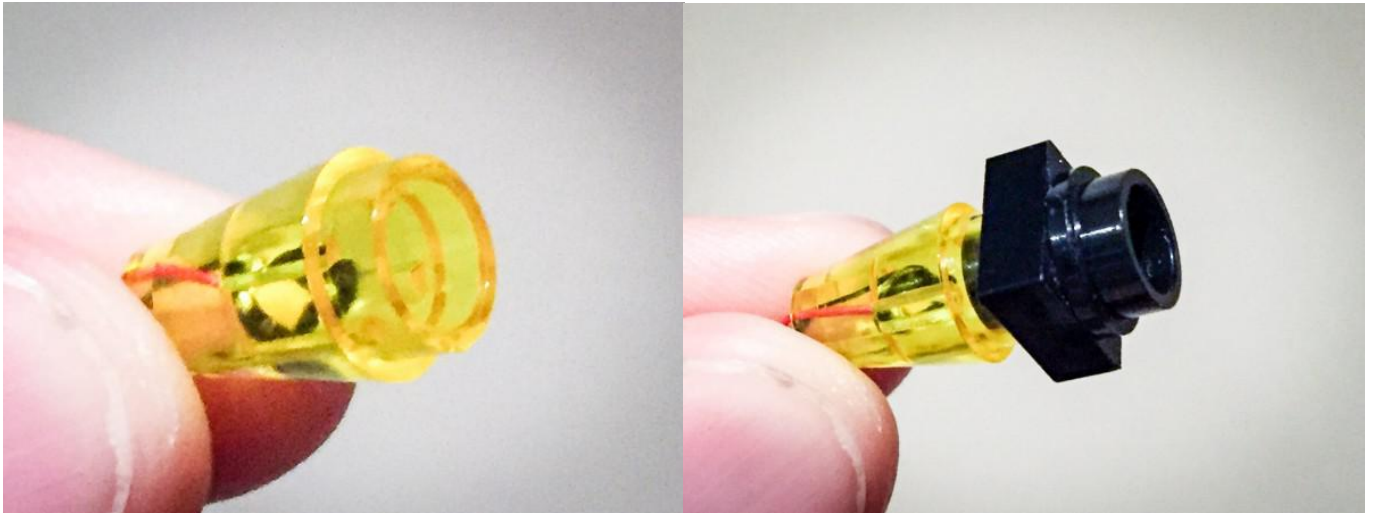


33.) Remove the lamp (yellow transparent piece and black piece underneath) and then remove the black piece on top of it so that we can thread a Dot Light through it.



34.) Take a Dot Light and thread the connector end through the smaller hole of the yellow Lego piece just like we did for the lamp posts in step 19.

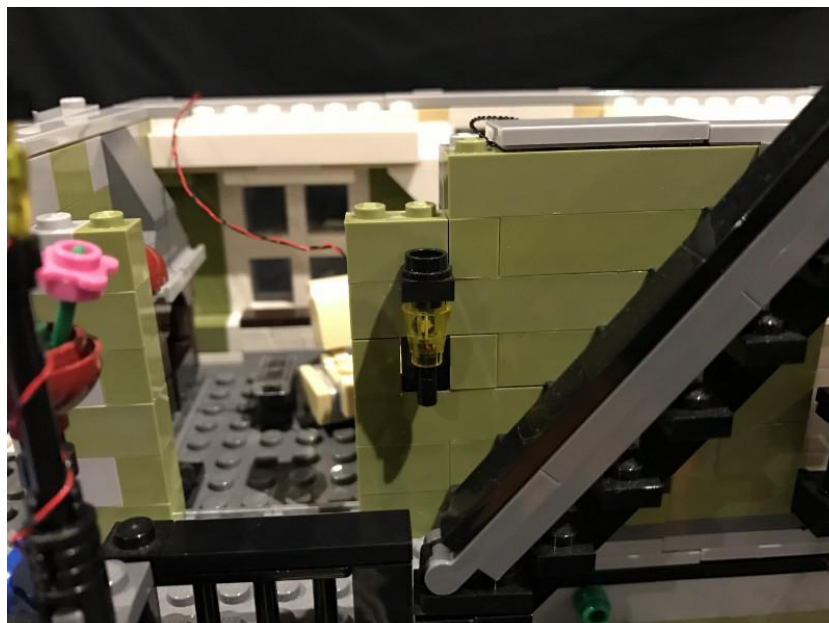




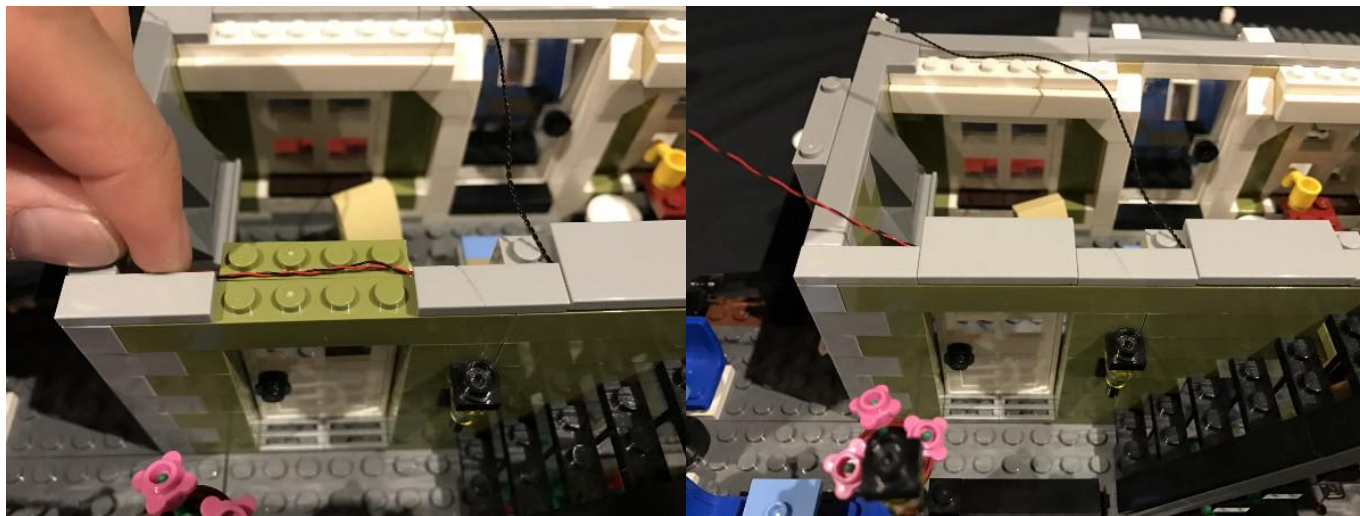
Do not force the yellow piece to connect to the black piece as this may pull the Dot Light away from the cable and damage the Dot Light. Instead, allow for enough room for the black piece to come through the bottom as pictured below.



35.) Reconnect this lamp back to its original position ensuring that the cable from the Dot Light is laid behind the wall.



36.) Reconnect the Lego door and pieces we removed earlier and then pull the Dot Light cable up and then across the doorway. Lay the cable underneath the 2x4 grey Lego tile in between studs as per below.



37.) Take the entire 3rd level and then turn it on its back. Take another strip light (striplight#3) and connect another 30cm cable into the right port. Connect/stick the strip light to the bottom of the 3rd level at the following position:



Take the 30cm cable we threaded up from below and connect this into the left port of striplight#3.



38.) Secure the 30 cm connected to the right port by laying this underneath the grey Lego plate and in between studs.



Reconnect the 3rd level back on top of the building ensuring that both the 30cm cable and the Dot Light cable is laying behind the building.



39.) Looking at the back of the building, remove the blue door with windows from the following hinges.

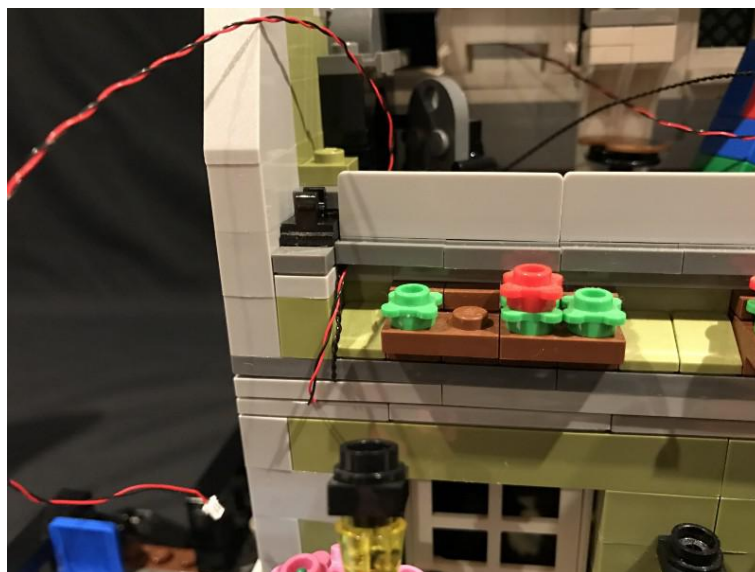


Door should easily disconnect in one piece

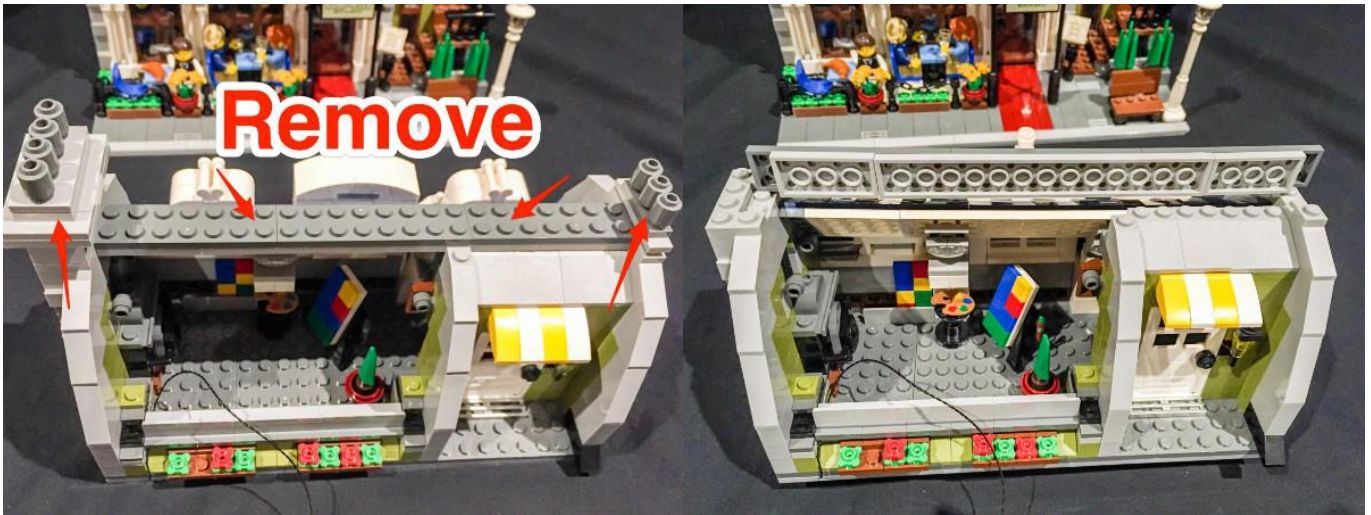
40.) Remove the following Lego pieces so that we can thread the 2 loose cables through this space.



41.) Thread the 2 cables through and reconnect the Lego pieces we removed earlier back on top of the cable ensuring the cables are between the Lego studs.



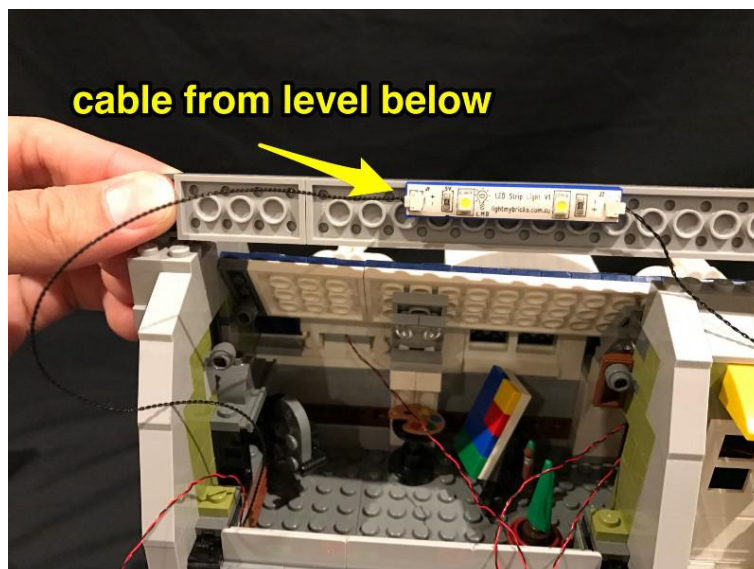
42.) Remove the following Lego pieces of the roof.



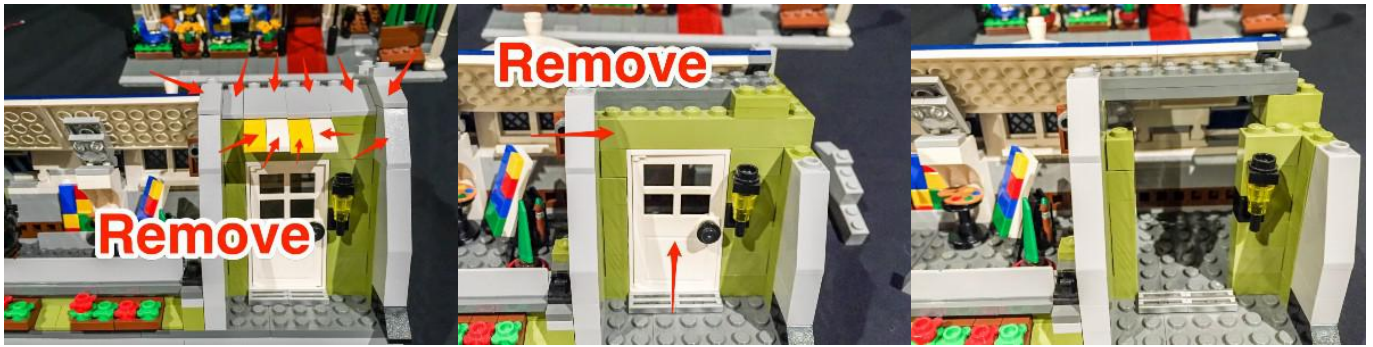
43.) Take the final strip light (striplight#4) and connect a 15cm cable to the right port then connect/stick the strip light to the following position on the centre roof piece.



44.) Take the 30 cm cable we threaded up from the lower level and connect this into the left port of striplight#4.



45.) We now need to remove Lego pieces in order to connect up the door lamp on the top floor. Start by removing the following pieces:



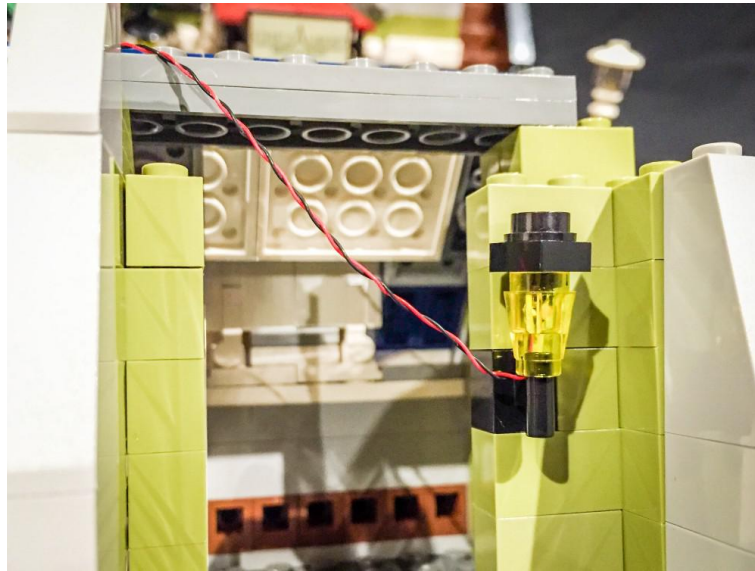
46.) Disconnect the door lamp (yellow transparent piece only) and remove the black piece on top so that we can thread through another Dot Light cable.



Thread a Dot Light cable from the connector end through the smaller hole as we did for the previous door lamps / lamp posts.



47.) Reconnect the wired door lamp to its original position. Do not force the yellow piece to connect to the black piece (lamp post) as this may pull the Dot Light away from the cable and damage it. Instead, allow for enough room for the black piece to come through the bottom as pictured above.



Reconnect the door and surrounding Lego pieces we removed earlier.



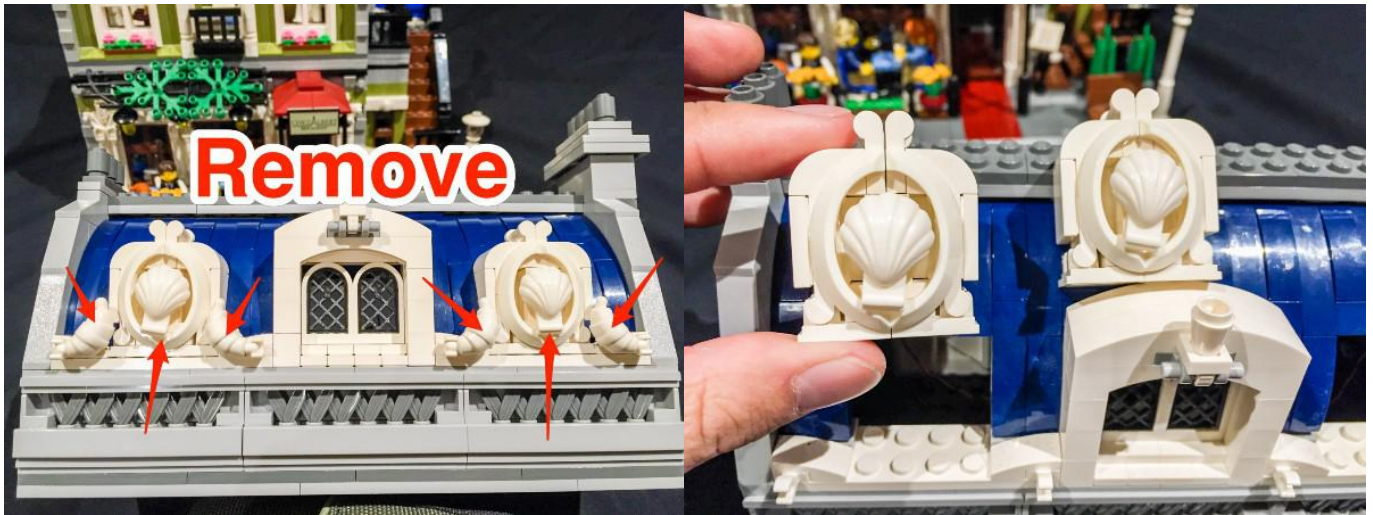
Ensure you thread through the cable from the door lamp so that it sits between the door frame and wall

We will connect the Dot Light cable to an expansion board later.

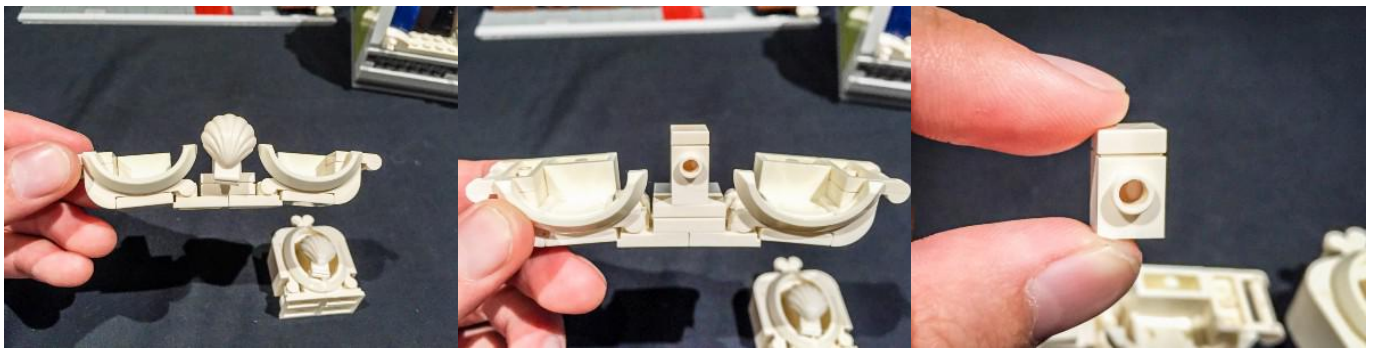
Reconnect the Lego pieces for the roof and two chimneys which we removed earlier.



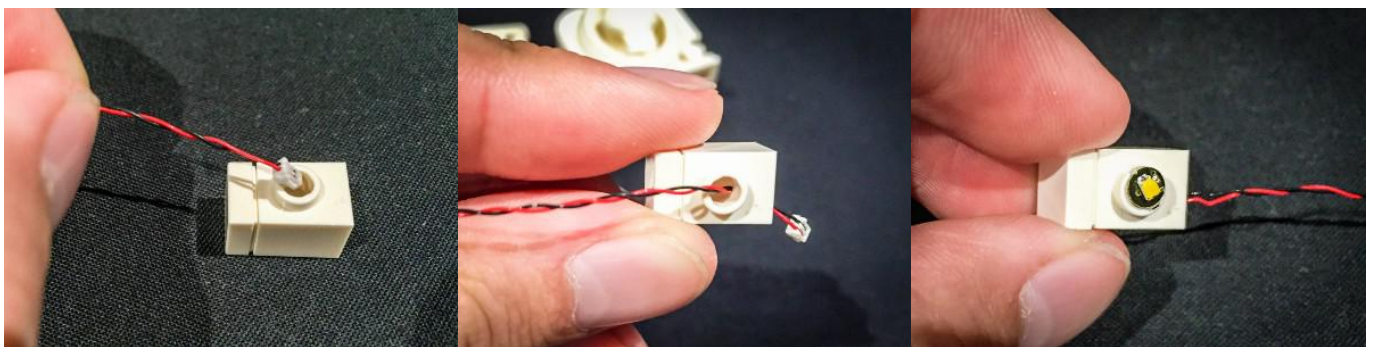
48.) We will now light up the shell sections at the front of the roof. Turn the top level around and remove the white croissant pieces to allow us to then remove the 2 shell sections.



49.) Take one of the shell sections and then disassemble it piece by piece until you have the single white piece which we can thread a Dot Light through.

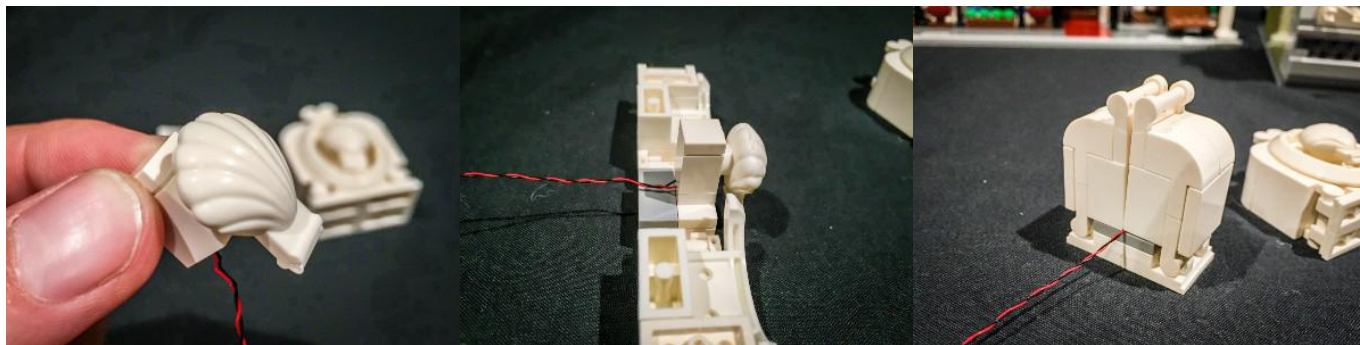


50.) Thread a Dot Light cable from the connector end through the hole of the white Lego piece. Pull the cable all the way through until the Dot Light part is right up against the Lego piece.



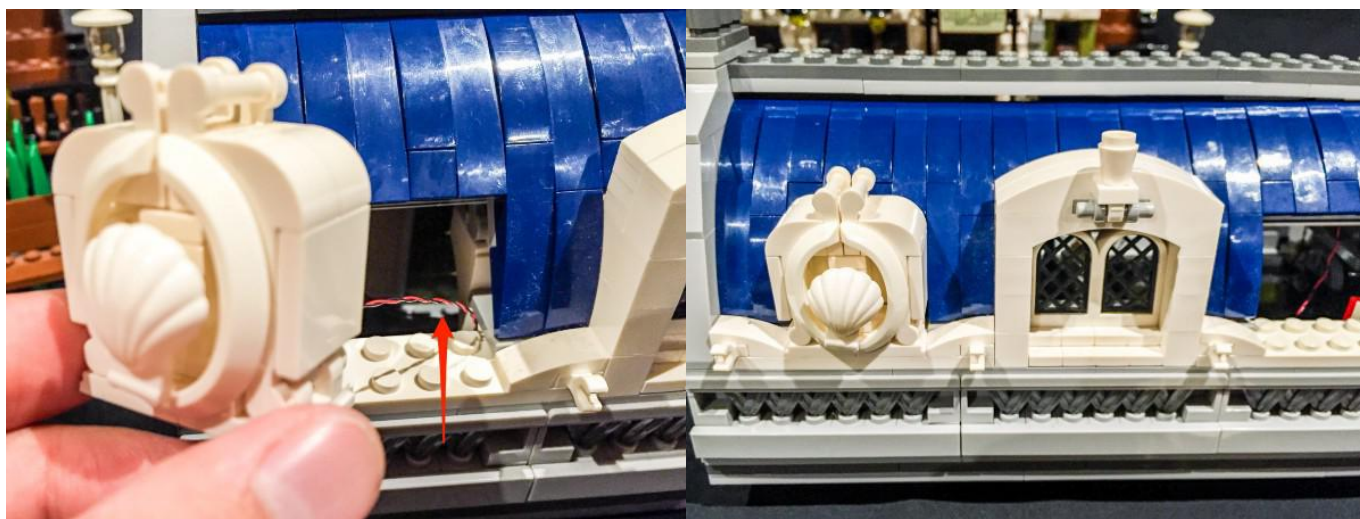
Ensure the Dot Light is facing the correct way up

51.) Assemble the shell section back piece by piece starting with the shell piece. As you build this back up, ensure the cable is sitting comfortably in between pieces.

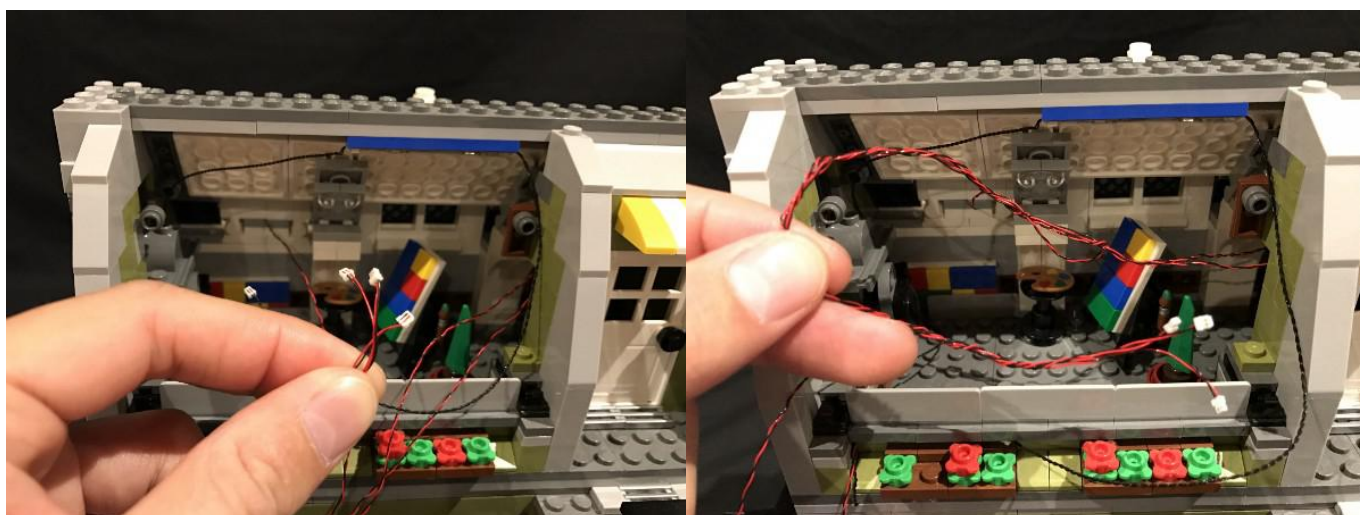


Repeat the previous 2 steps for the 2nd shell section.

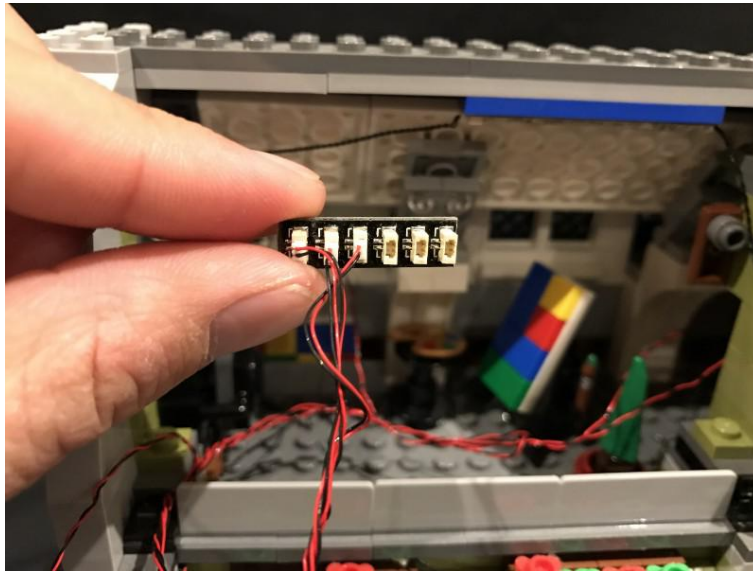
52.) Reconnect the 2 wired shell sections to its original positions ensuring the cable for the Dot Lights are thread through behind.



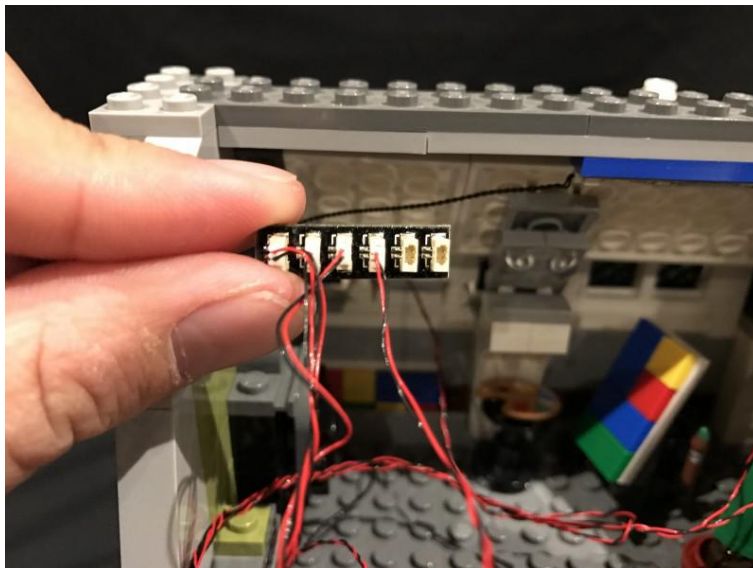
53.) Take the Dot Light cables from the 2 shell lights and the lamp post on this level and group them together at the port ends. Twist them around each other so they all come together neatly.



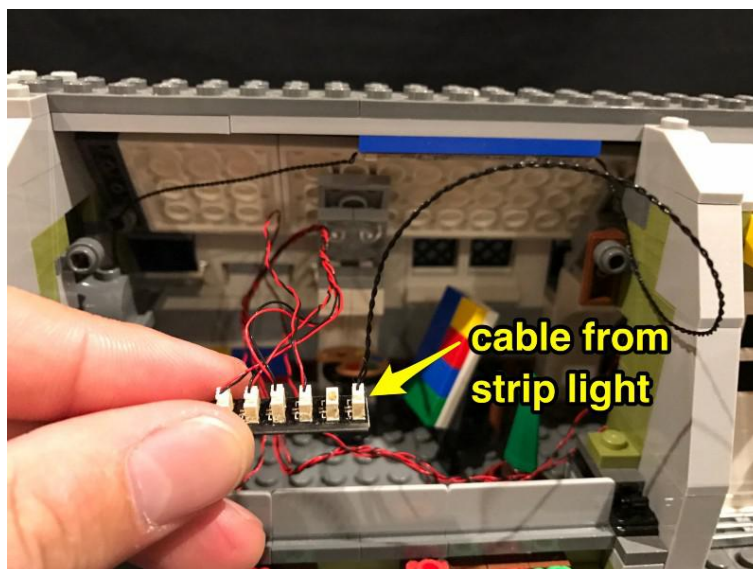
54.) Connect these 3 Dot Lights into the first few ports on the **6-port expansion board** which came in this kit.



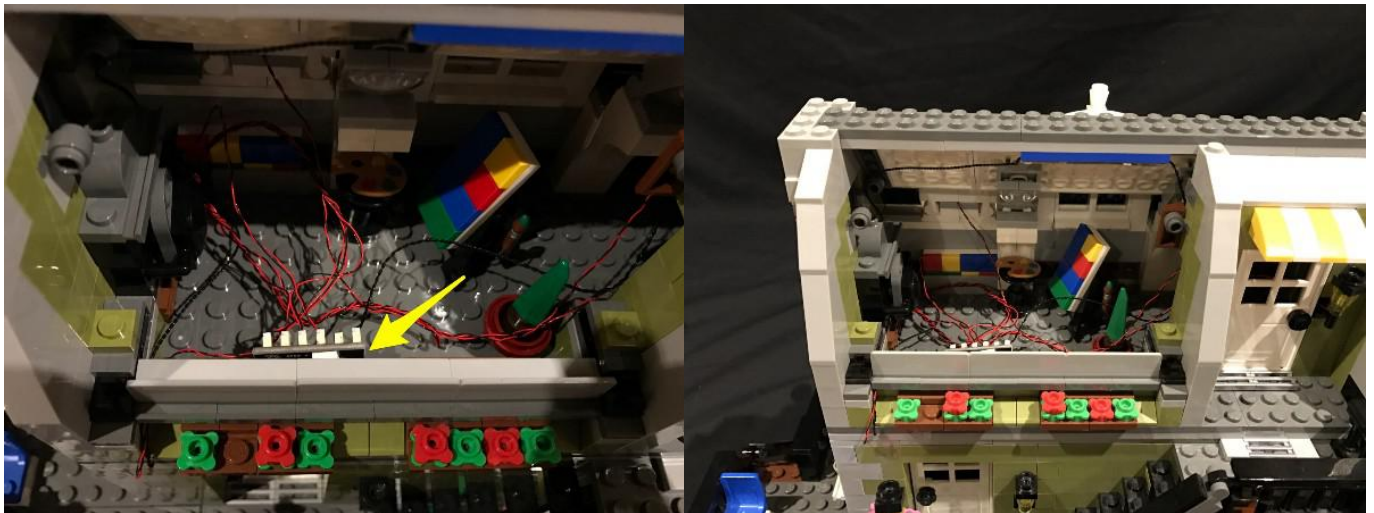
55.) Take the Dot Light cable which we threaded up from the level below and connect this into the next available port on the expansion board.



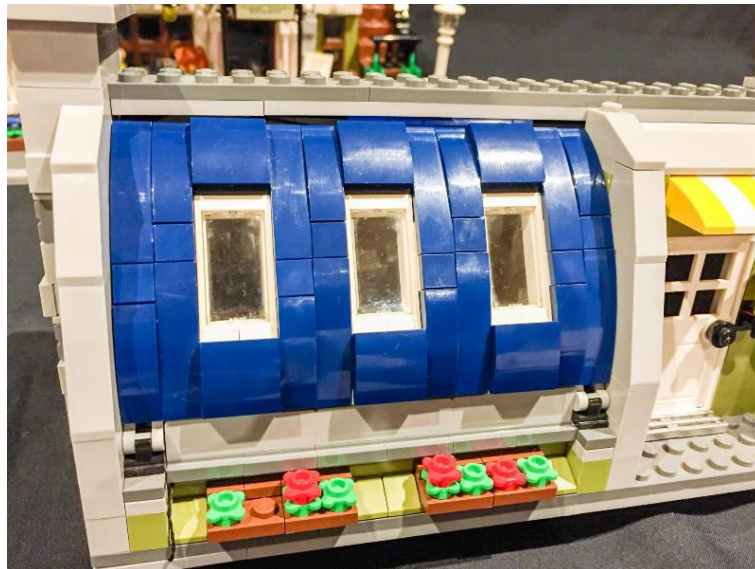
56.) Connect the 15cm cable from the right port of striplight#4 into one of the spare ports of the expansion board.



57.) Using one of the provided self adhesive squares, stick the expansion board to the bottom of the inside of the level as per below. You can neaten/hide any access cables at the bottom of the floor and around some of the Lego objects so that they are not visible from the outside looking in.



58.) Finally, reconnect the blue door with windows and close.



This now completes the LED lighting circuit. Your kit is now ready to be turned “ON” .

Now turn on the lighting kit at the battery pack and enjoy!