

## ASSEMBLY SQUARE # 10255 Fantasy Version (RGB)

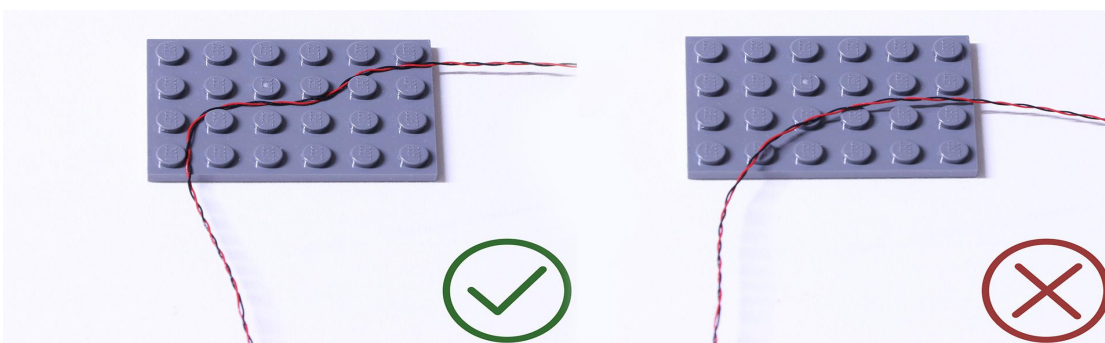
### Package contents:

- 2x Lamp Posts with Dot Light installed
- 7x Warm White Dot Lights 15cm
- 1x Warm White Dot Light 30 cm
- 1x Blue Dot Light 30 cm
- 8x White LED Strip Lights
- 1x 5cm Connecting Cable
- 6x 15cm Connecting Cables
- 4x 30cm Connecting Cables
- 8x Adhesive Squares
- 1x 8-port Expansion Board
- 2x 6-port Expansion Board
- 1x Multi-Effects Board (3 effects)
- 1x Battery Pack (requires 3x AA Batteries)
- 8x Plates 1x6 (for mounting strip lights)
- 1x RGB Remote + Remote control board
- 2x RGB Strip lights
- 2x RGB 15cm Connecting Cables

### Note:

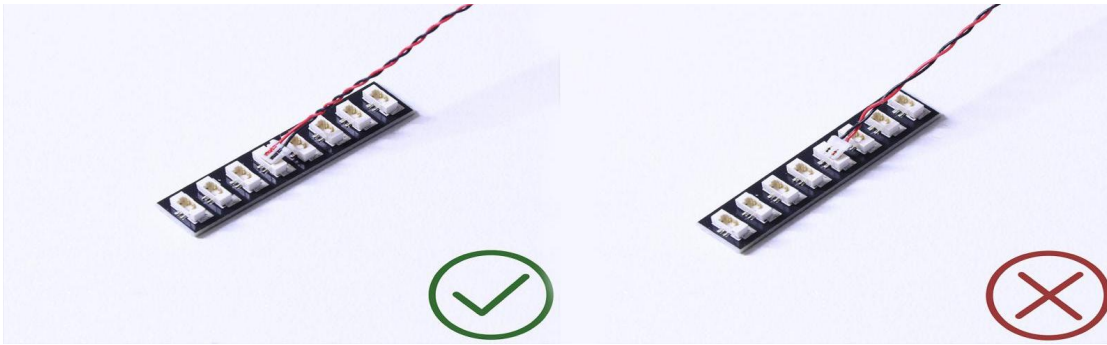
Place wires on the surface or under the building blocks.

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

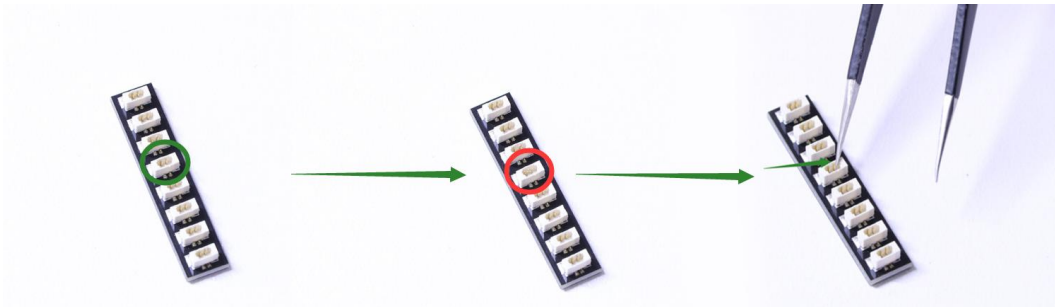


Insert the connectors to the ports.

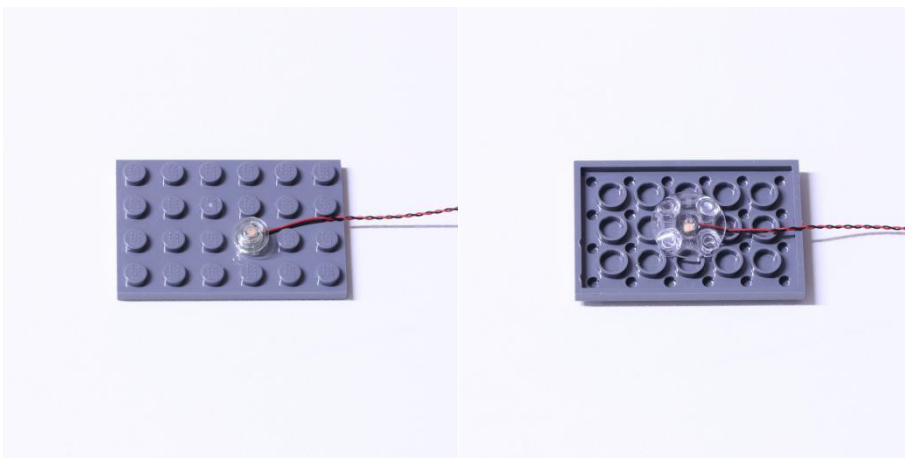
Be careful when you are operating, there's only one correct way to insert, make sure the expansion board is upward, find the soldered "=" sign on the left of the port. When you are inserting, the side which the wires can be seen should be faced to the "=" sign and if you feel hard to insert, please stop, 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.

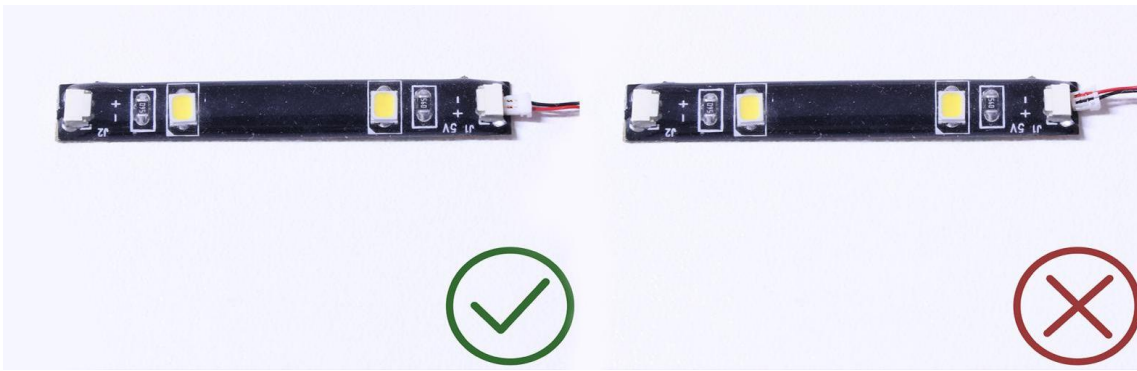


When installing dot lights, make sure they are correctly placed (Yellow LED package is exposed). You can put them either on the top of the studs or between studs.

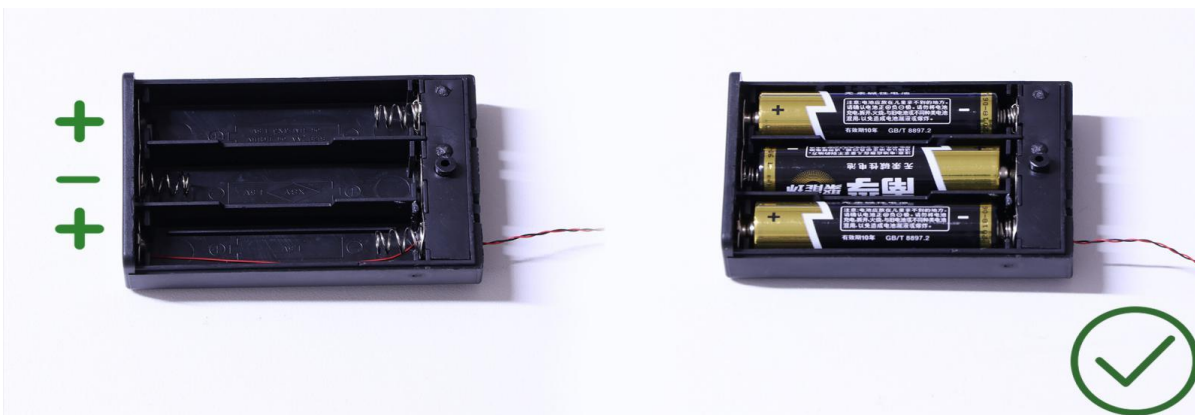


### Connecting cable connectors to Strip Lights

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.



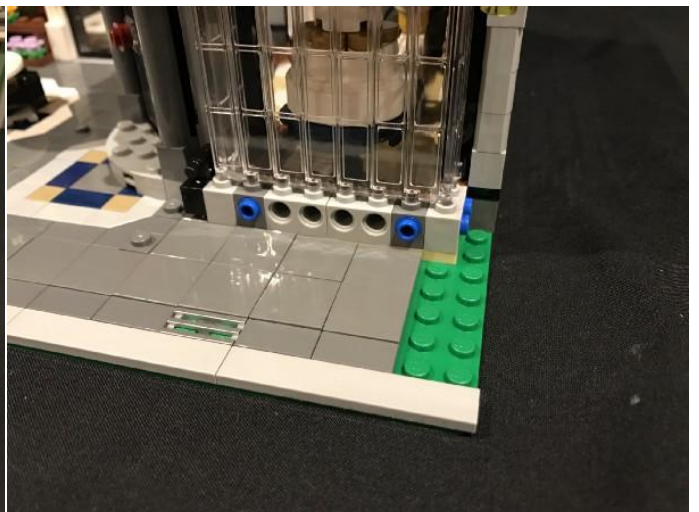
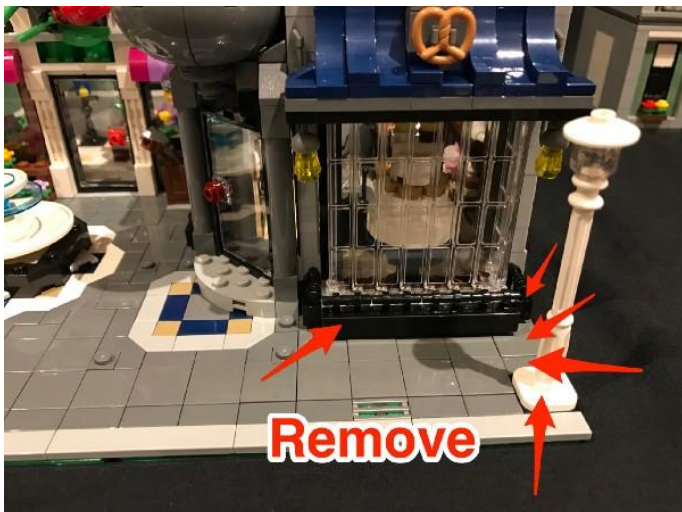
Finally, please pay attention to the positive and negative terminals of the battery when installing the battery case.



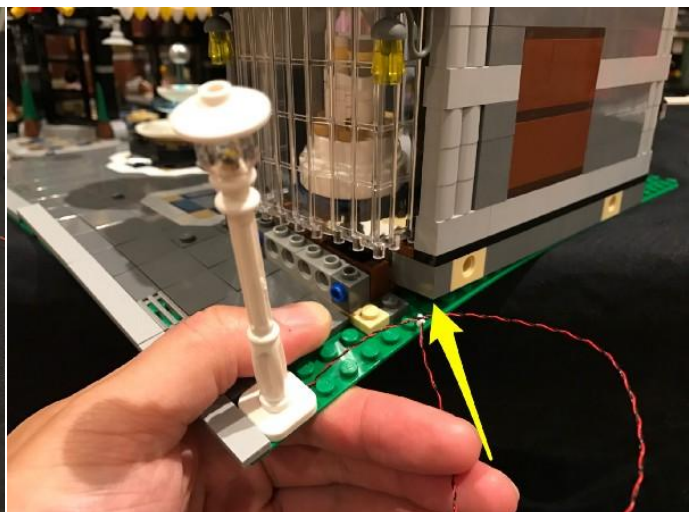
OK, Let's Begin!

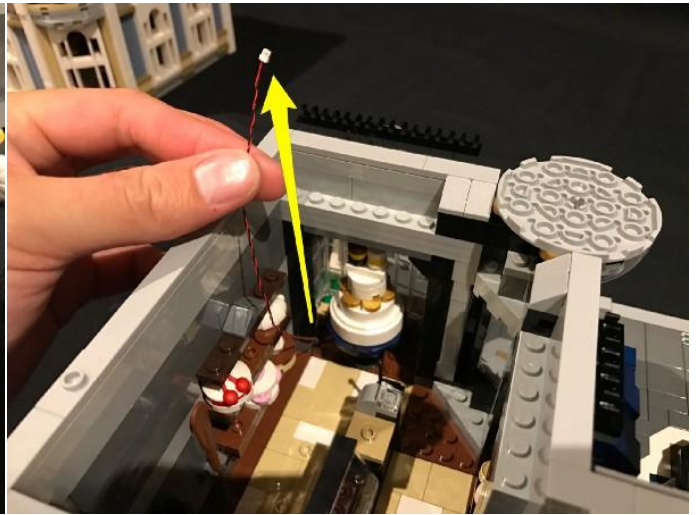
Instructions for installing this kit

1. ) This light kit is installed from the floor up. Remove the second and third levels of the Assembly Square. We will start with installation of the 2 lamp posts. Remove the lamp post on the right and then disconnect the following tile pieces.



2. ) Replace the stock lamp post with the Vonado lamp post with dot light installed. Gently push down the corner of the base plate so that the base plate comes apart from the wall and then thread the connector side of the cable underneath the wall. Pull the cable up from the inside of the building and then ensure the lamp post cable is neatly laid in between the studs of the base plate.





Reconnect the base plate to the front wall and then reconnect the tile pieces over the top of the cable.



3. ) We will install the lamp post on the left side using a similar method. Remove the stock lamp post and then disconnect the following tiles and surrounding pieces.



Replace the stock lamp post with the other Vonado lamp post with dot light installed and then gently push down the corner of the base plate to allow us to thread the connector side of the cable in between the door and window of the cafe



Pull the cable up from the inside of the cafe and then reconnect back the corner of the base plate. Ensure the lamp post cable is laid neatly in between the studs of the base plate before reconnecting the tiles and pieces we removed earlier.

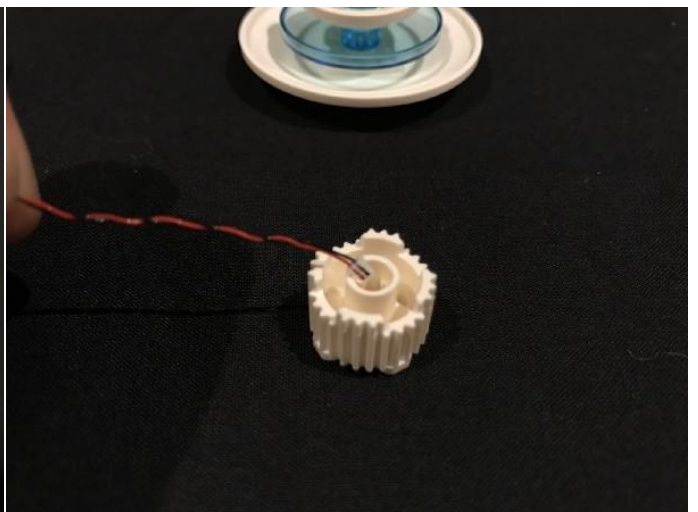
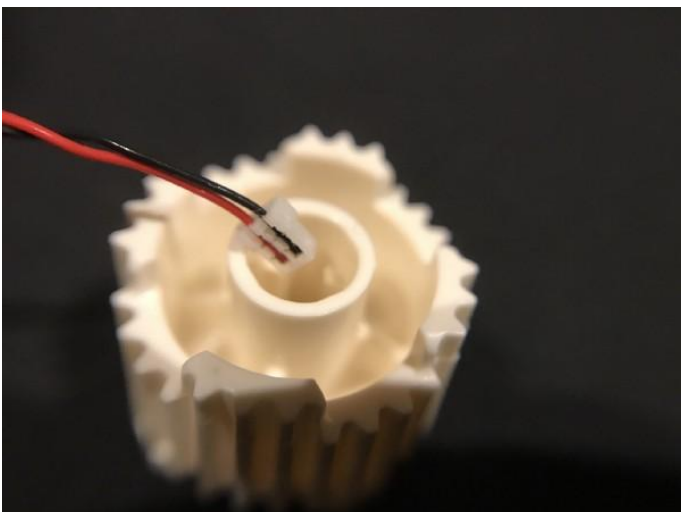


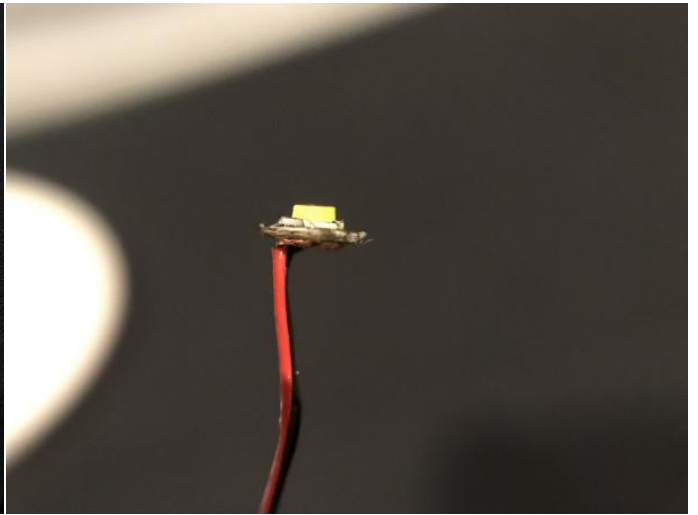
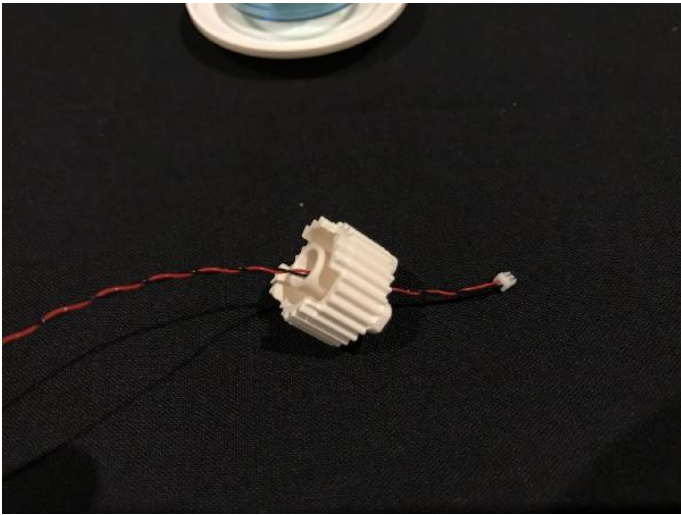


4. ) We will now move onto installing a blue dot light to the fountain. Disconnect the main section of the fountain and then disassemble the pieces as per below.

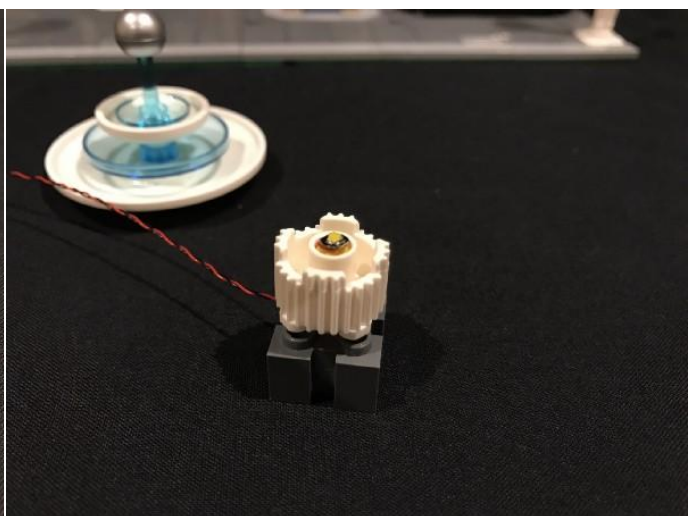
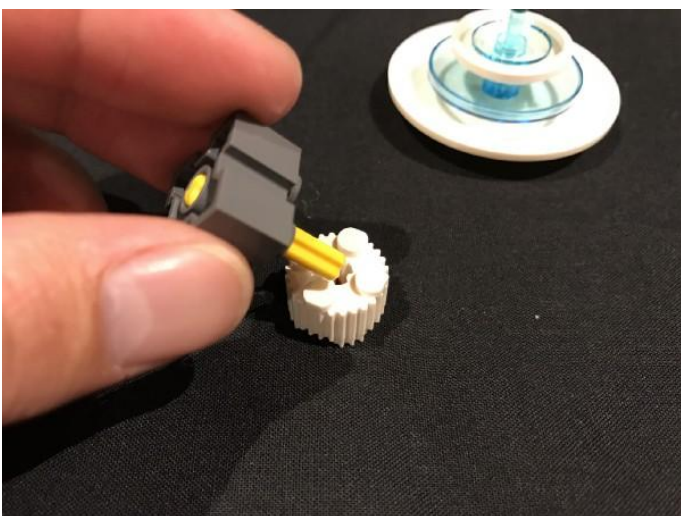
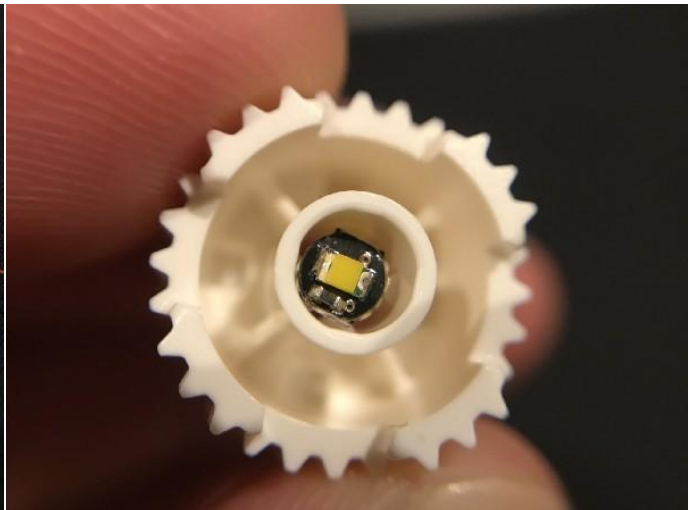
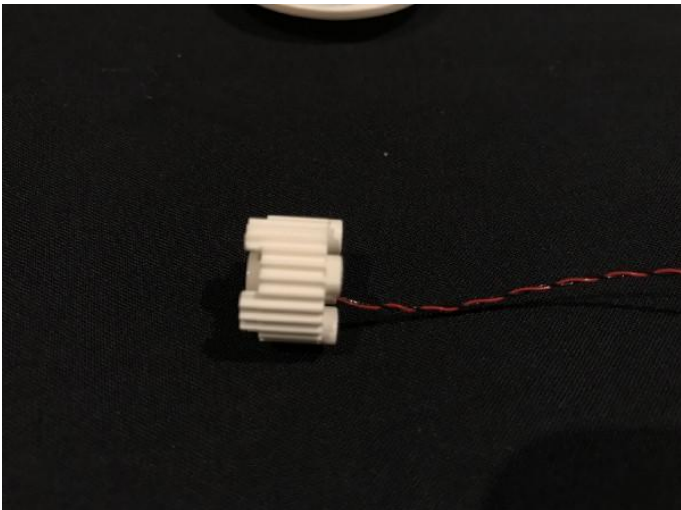


Take the Blue Dot Light and then thread the connector side of the cable through the bottom of the white round piece. Locate the top of the cable where the LED component is and then bend the cable down on a 90 degree angle.



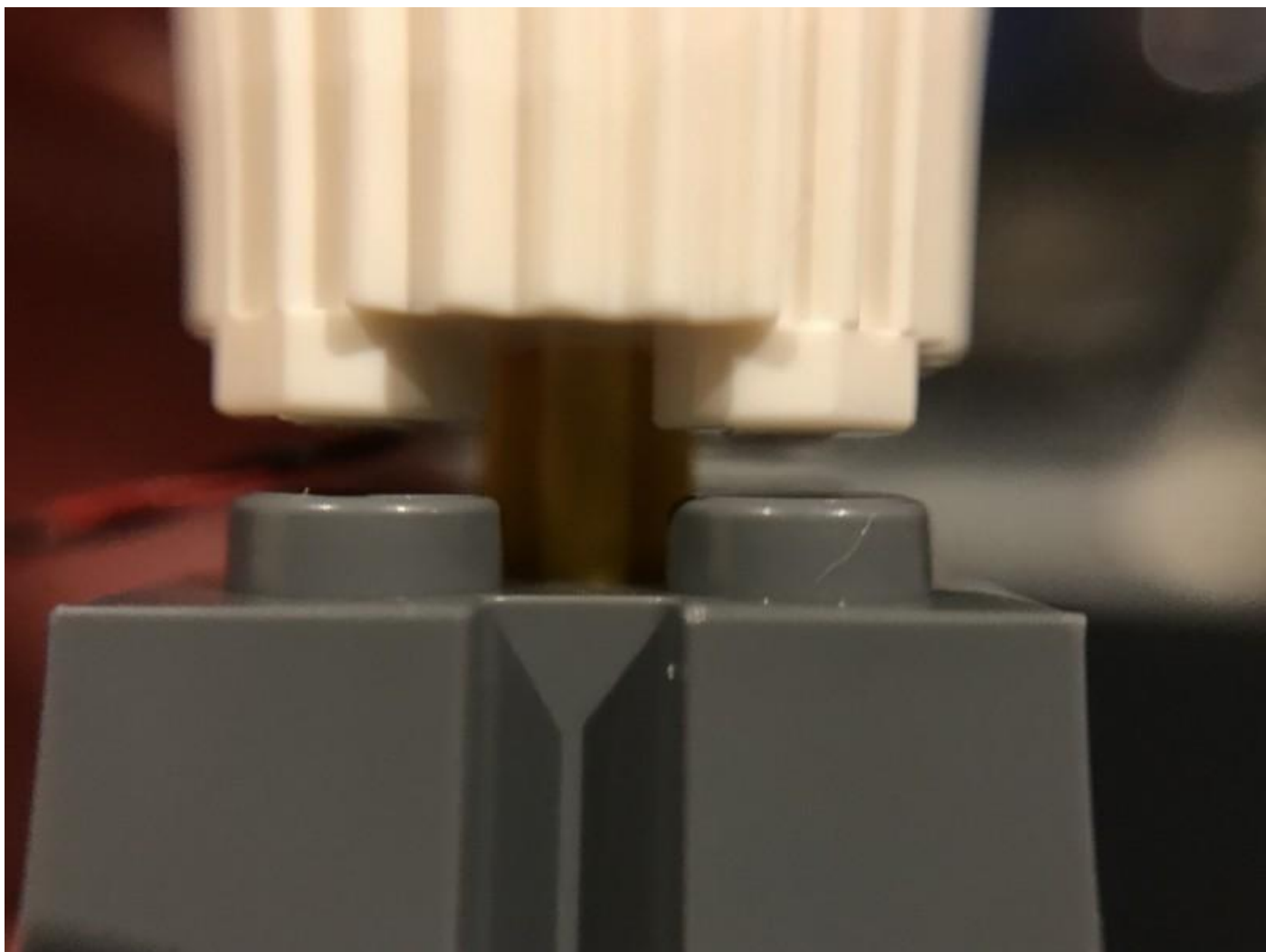


Pull the cable all the way through from the other side so that the LED component is right up against the inside of the white round piece then reconnect the dark grey brick with yellow technic pin through the top of the white round piece. Your base of the fountain section with blue dot light installed should look similar to the below example.

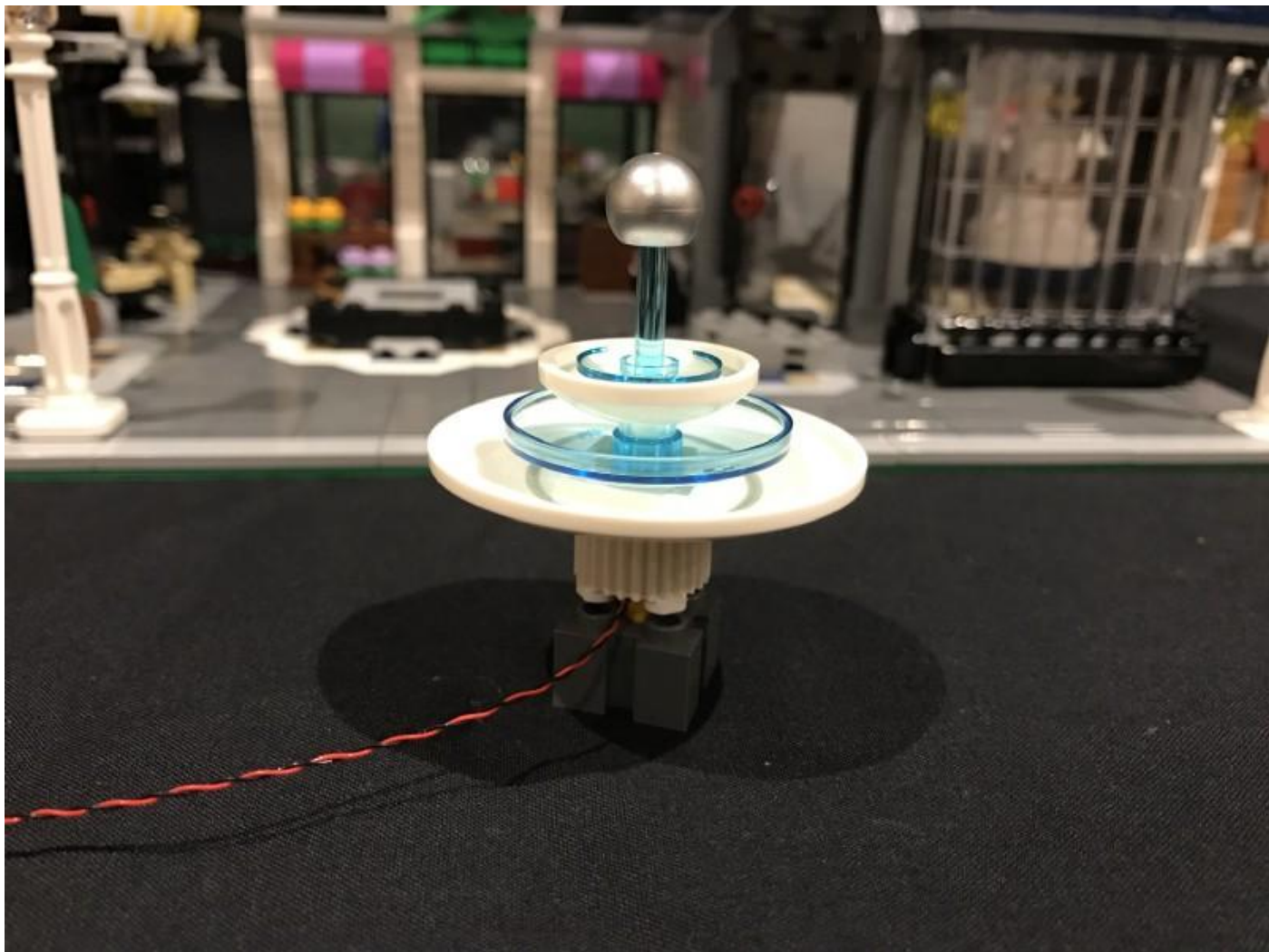


Note: Because of the dot light cable, the 2 sections (white round brick and dark grey brick) will not fully connect and there should be a slight 1-2 mm gap between the two.

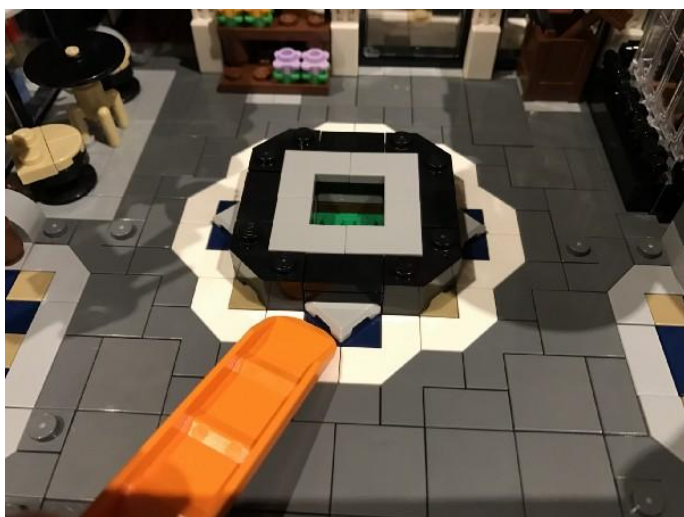




We can now reconnect back the top section of the fountain to the base.



5. ) Before we can reconnect the fountain with dot light installed to its original location, we must remove the following tiles and pieces to allow us to lay the cable underneath and up towards the inside of the flower shop.





6. ) The next step may be tricky so please take caution when doing so to avoid the whole front wall of the flower shop collapsing. We need to thread the cable from the dot light we installed to the fountain underneath this front wall. To do so, lift the base of the assembly square up and using your finger, push down the base plate (in front of the window) to allow you to remove the section which make up one of the pillars between the left window and front door.



7. ) Reconnect the fountain to its original location and then thread the cable through the open space between the front window and door of the flower shop. Ensure the cable is laid neatly between the studs of the base plate before reconnecting the section which made up the pillar we removed earlier. You may need to carefully push down the base plate again in order to get this section back in.



Reconnect the tiles and pieces we removed earlier ensuring the dot light cable from the fountain is neatly laid in between the studs of the base plate. To make it easier, we can remove the top section of the fountain.





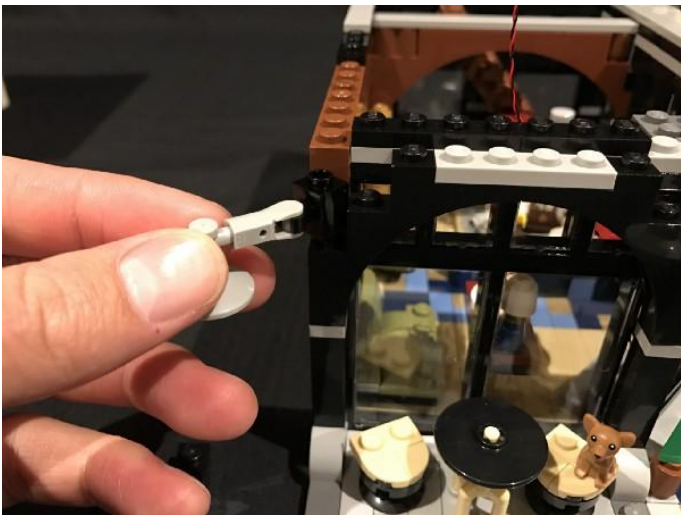
Leave the other end of the cables from the two lamp posts and fountain for now. We will connecting them all up later.

8.) We will now move onto installing lights to the lamps around the front of the cafe. Start by removing the following pieces surrounding the top front of the cafe.

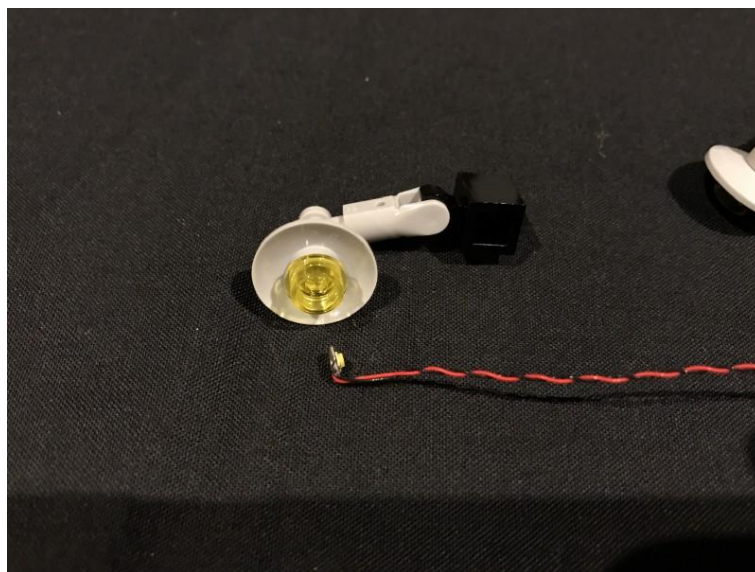




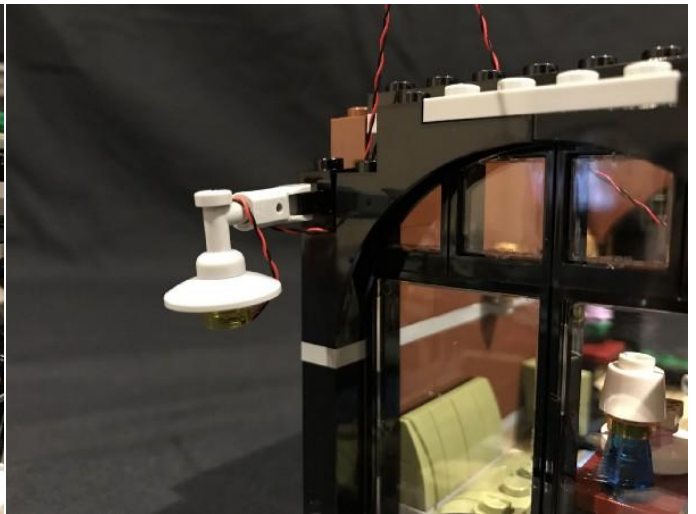
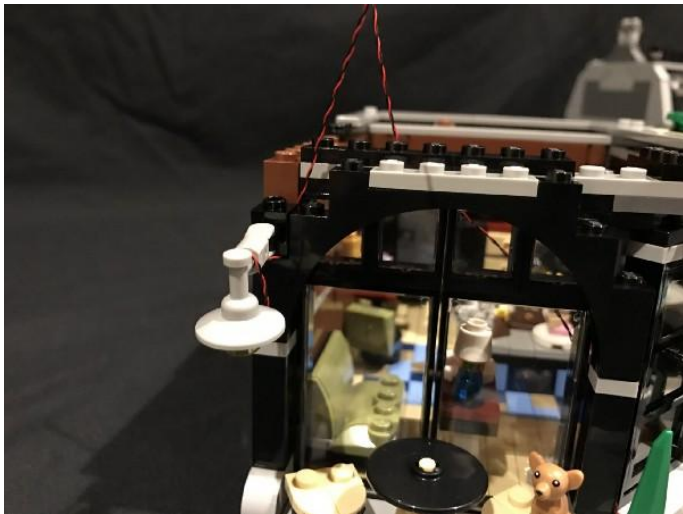
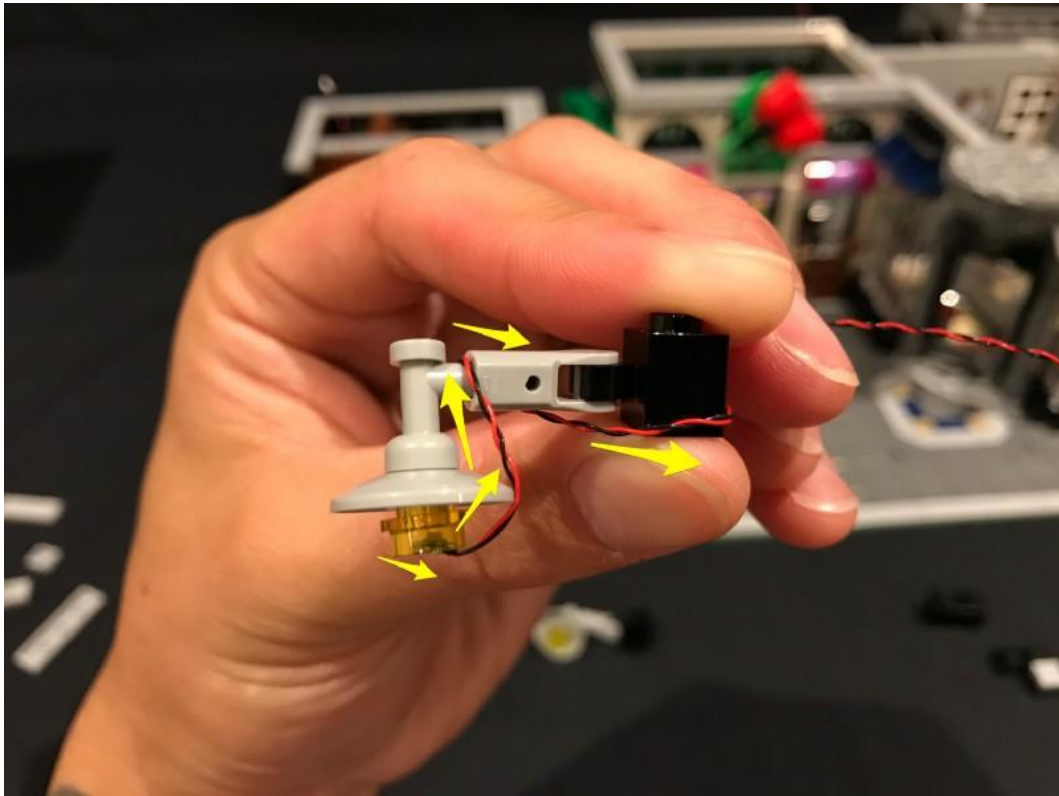
Remove the 2 lamp sections at the front.



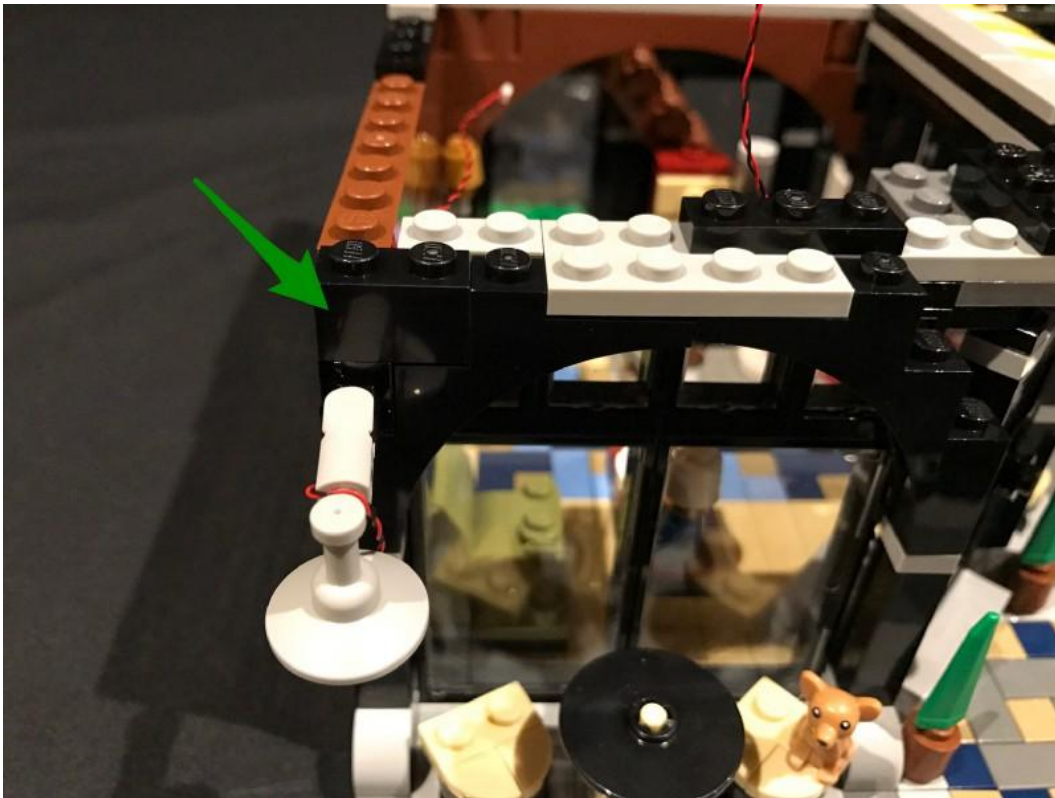
8. ) Take a Dot Light with 15cm cable and then bend the cable up in 90 degree angle where the LED component is.



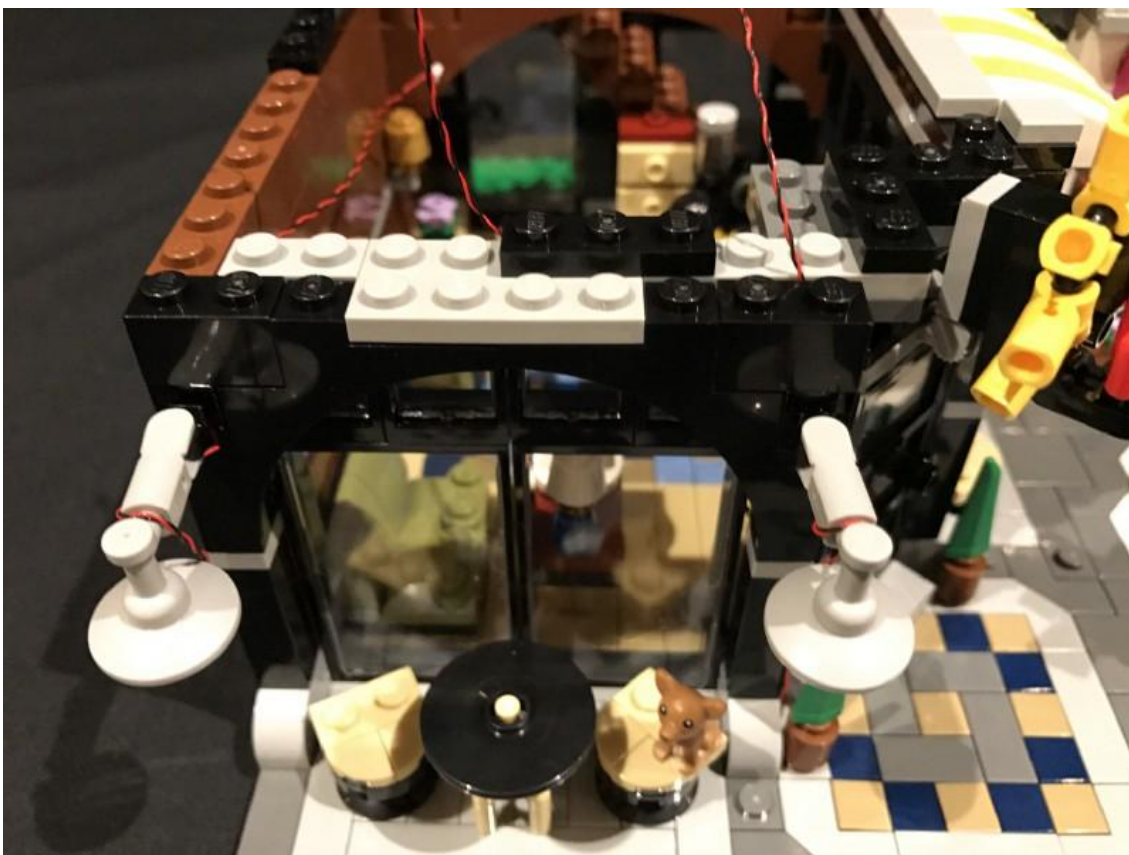
Place the LED component facing upward inside the middle of the trans yellow piece of one of the lamps. Pull the cable over the top of the lamp and then pull it right toward the black brick. Reconnect this lamp section back to the front wall ensuring the cable is tight and in between the 2 black bricks.



Reconnect the 1x2 black brick over the top to secure it in place.



Repeat the same process to install another Dot Light with 15cm cable to the lamp on the right side of the front of the cafe.

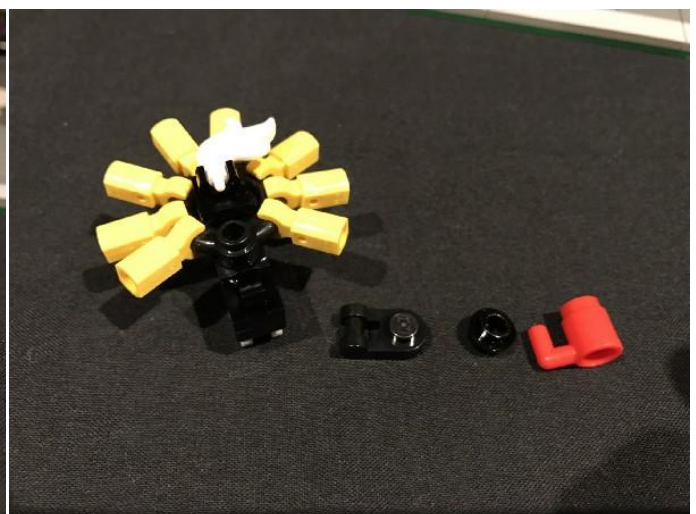




Reconnect surrounding bricks and pieces we removed earlier.



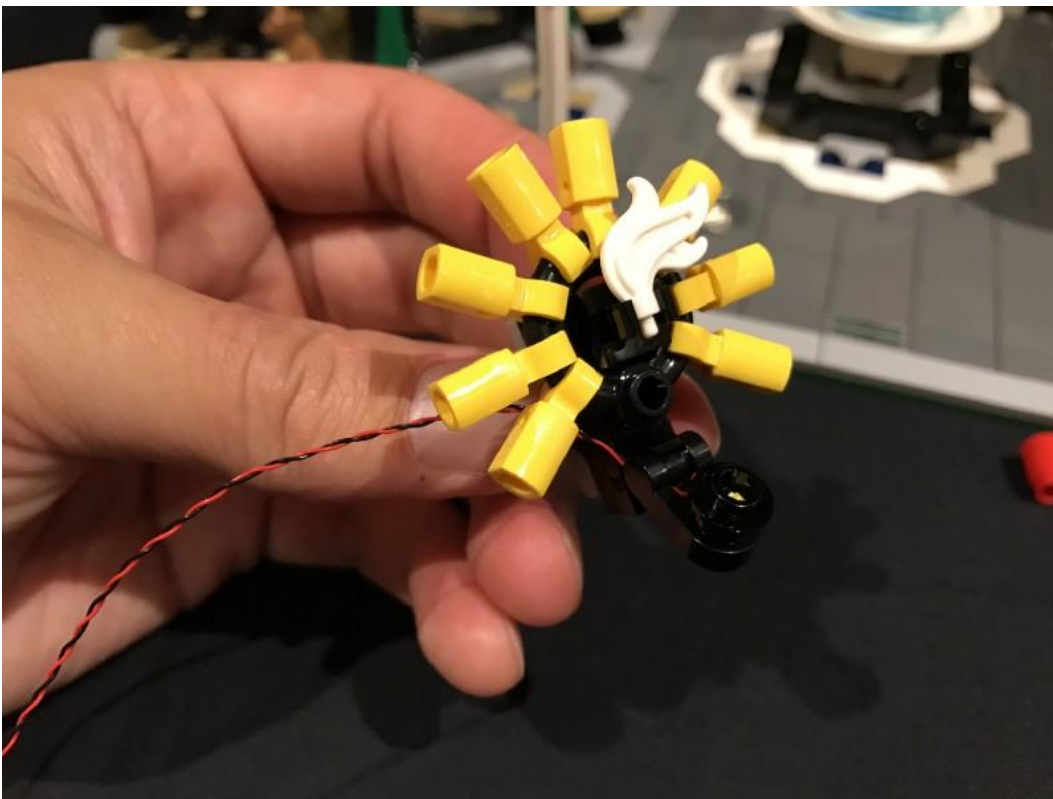
9. ) We will now install a light to the red coffee mug at the front of the building. Remove the entire section and then disassemble the following pieces as per below:



Take a dot light with 15cm cable and place the LED component directly over the stud of the black piece. With the cable facing toward the back, reconnect the round black piece directly over the top to secure the dot light in place then thread the cable down underneath the space of the black piece



Reconnect this section back to the main section of the sign.



Reconnect the red coffee mug and then reconnect this section back to the building ensuring the cable is laid behind.



Reconnect tiles we removed earlier ensuring the cable from the red mug is laid in between studs

underneath tiles.



11.) We will now install lights to the remaining lamps on the right side of the cafe. Start by removing the surrounding tiles and pieces.





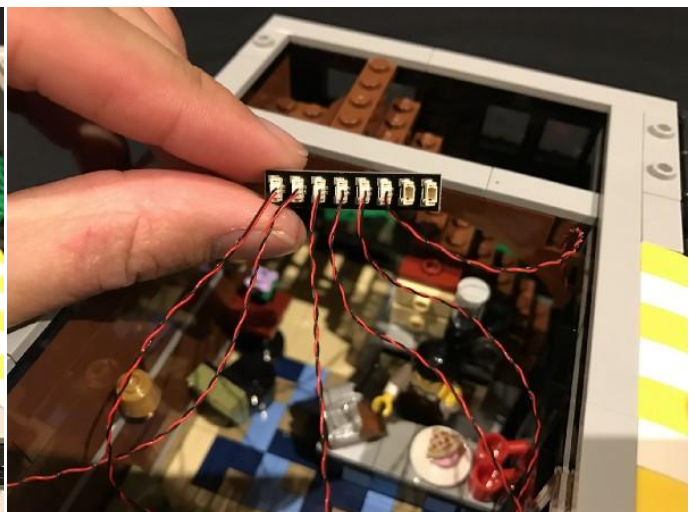
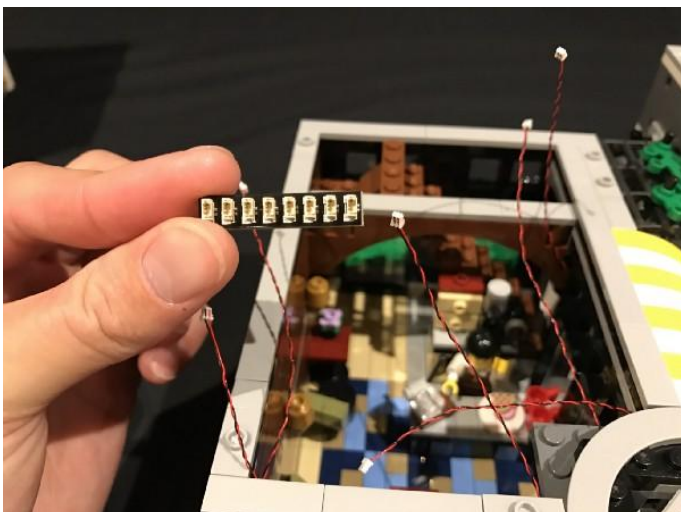
Remove the 2 lamp sections and install another 2x Dot Lights with 15cm cable to them using the same method we used earlier to install the front lamps.



Reconnect the 2 lamps with dot lights installed back to the wall and then reconnect the surrounding tiles and pieces.



12. ) Take the 8-port Expansion Board and then connect the cables from the 4 lamps, lamp post, and coffee mug lights to the available ports.



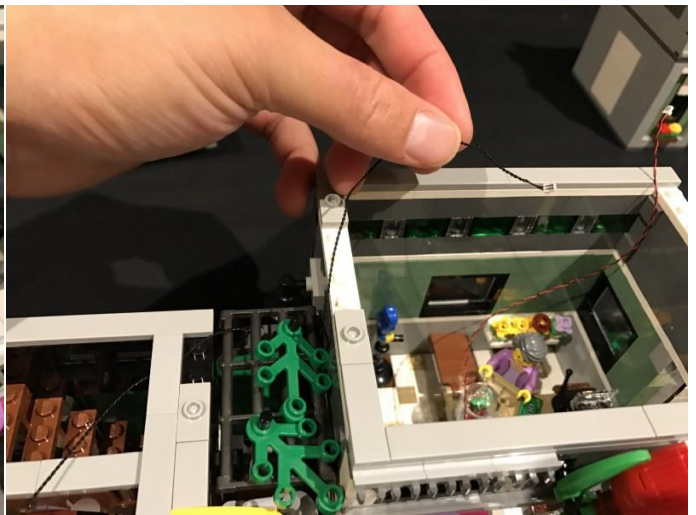
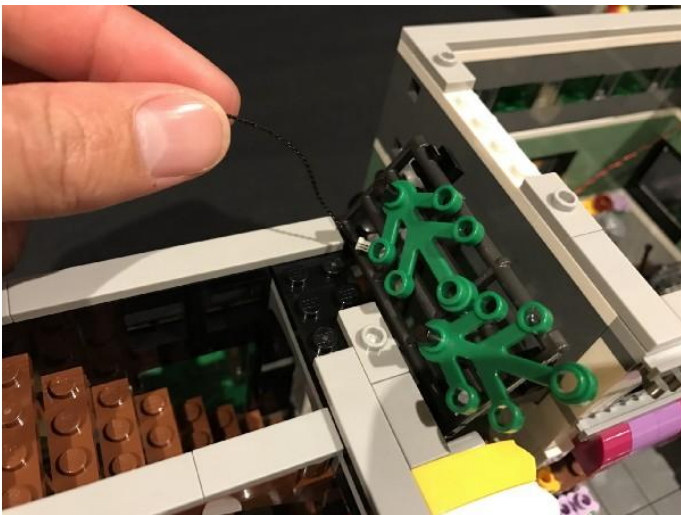
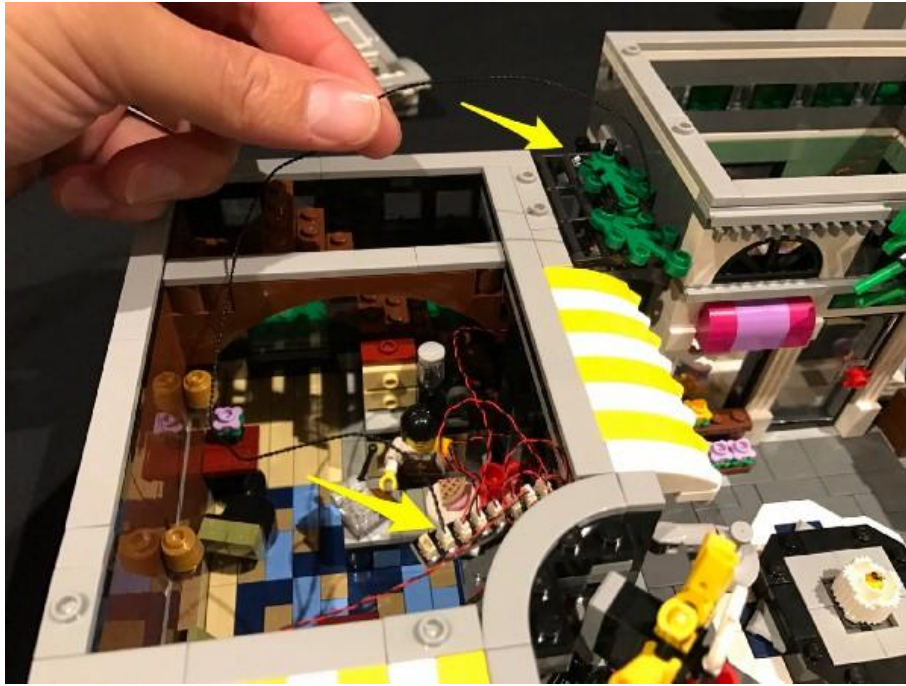
13.) This is a good time to test our current light circuit. To do so, insert 3x AA batteries to the battery pack and then connect the battery pack cable into a spare port of the expansion board. Turn on the battery pack and verify that all the lights connected to the cafe are currently lit.



14.) Take 2x adhesive squares and stick them onto the back of the expansion board. Mount the expansion board onto the inside of the building in the following location..



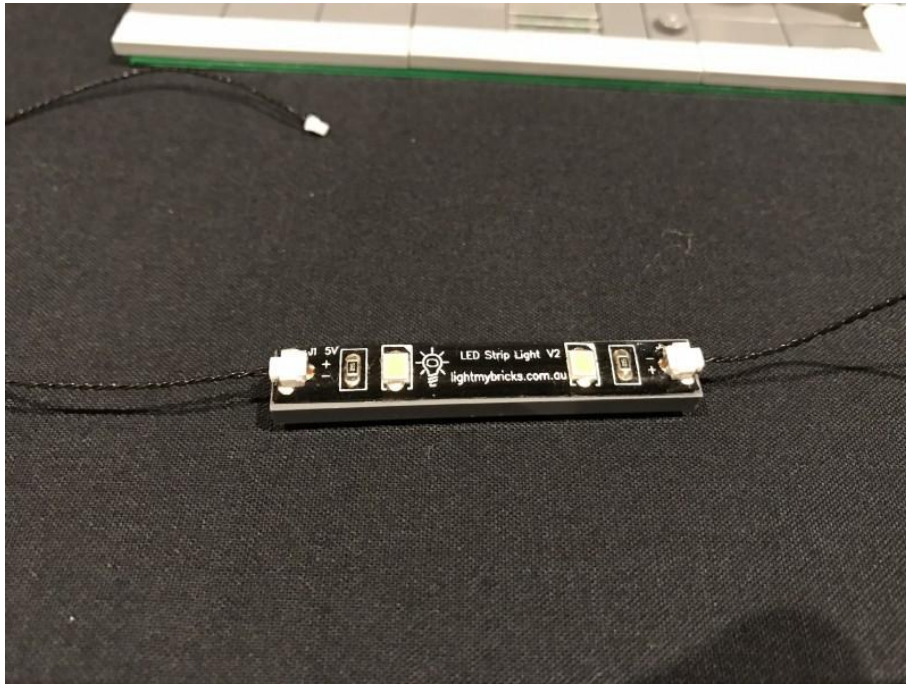
15.) Take a 30cm connecting cable and connect it to one of the spare ports on the expansion board. Take the other end of the cable and thread it through the green vine pieces and then through to the inside of the flower shop.



Secure and hide the cable underneath the grey tiles on the top of each building floor.



16. ) Take a LED strip light and connect a 15cm connecting cable into one of the ports, and another 15cm connecting cable into the other port. We will be using several LED strip lights so we will identify this one as striplight#1.

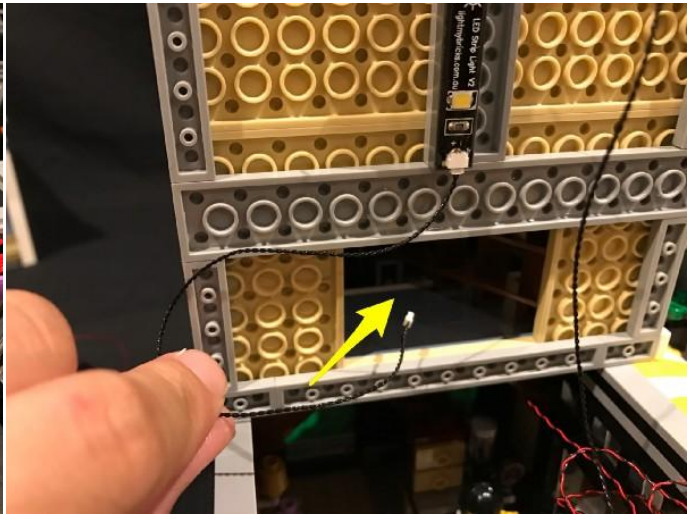
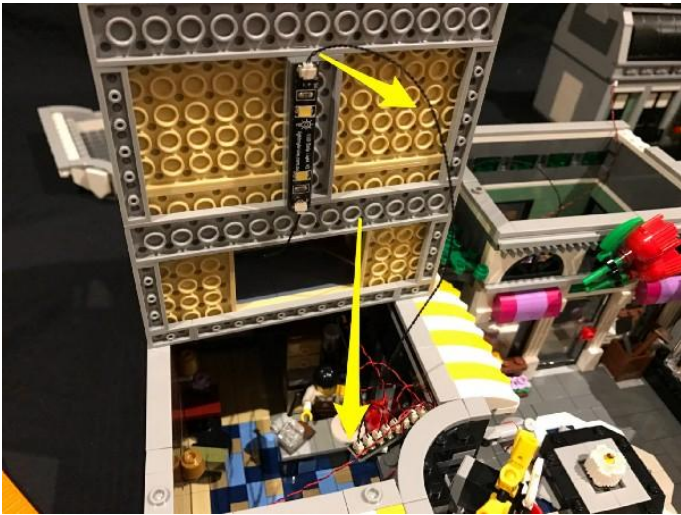


17.) Take the second floor of this building and turn it to its side so that we can install striplight#1 to the following position.

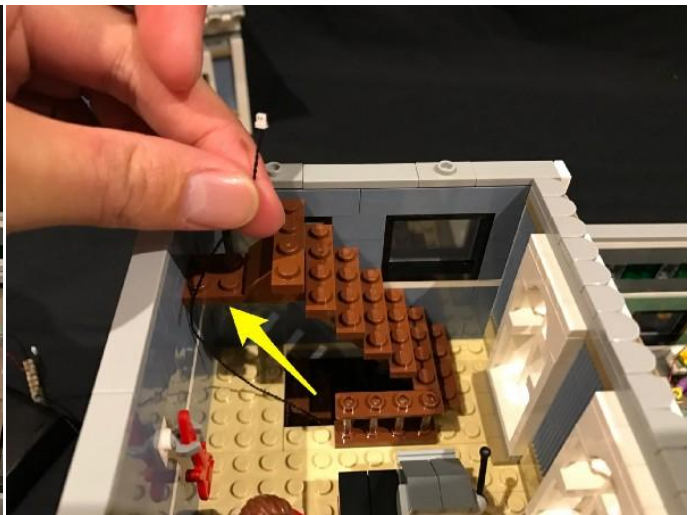


Connect one of the 15cm cables from striplight#1 to the last available port on the expansion board underneath and thread the other connecting cable up the open space which leads to the second level.





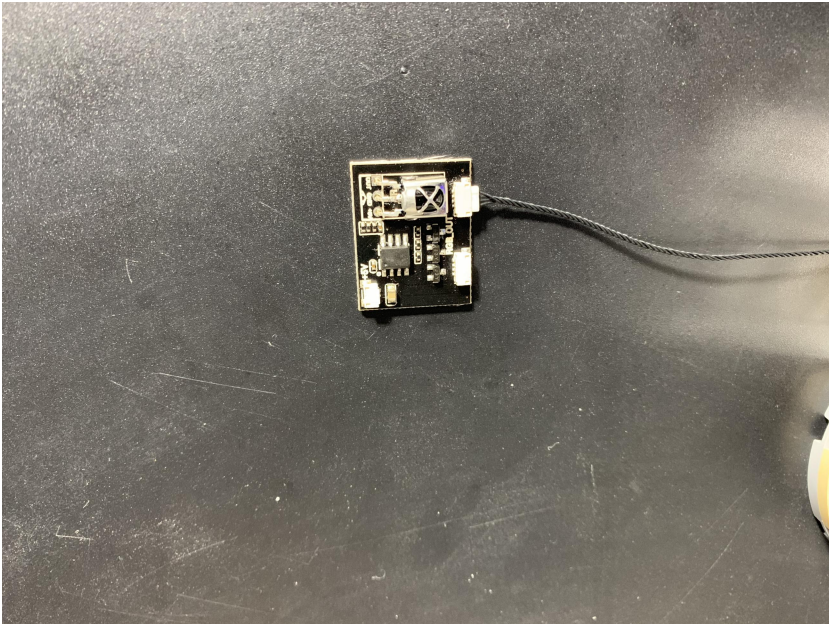
Reconnect the second level on top and then pull the 15cm cable we threaded up from underneath and set aside.



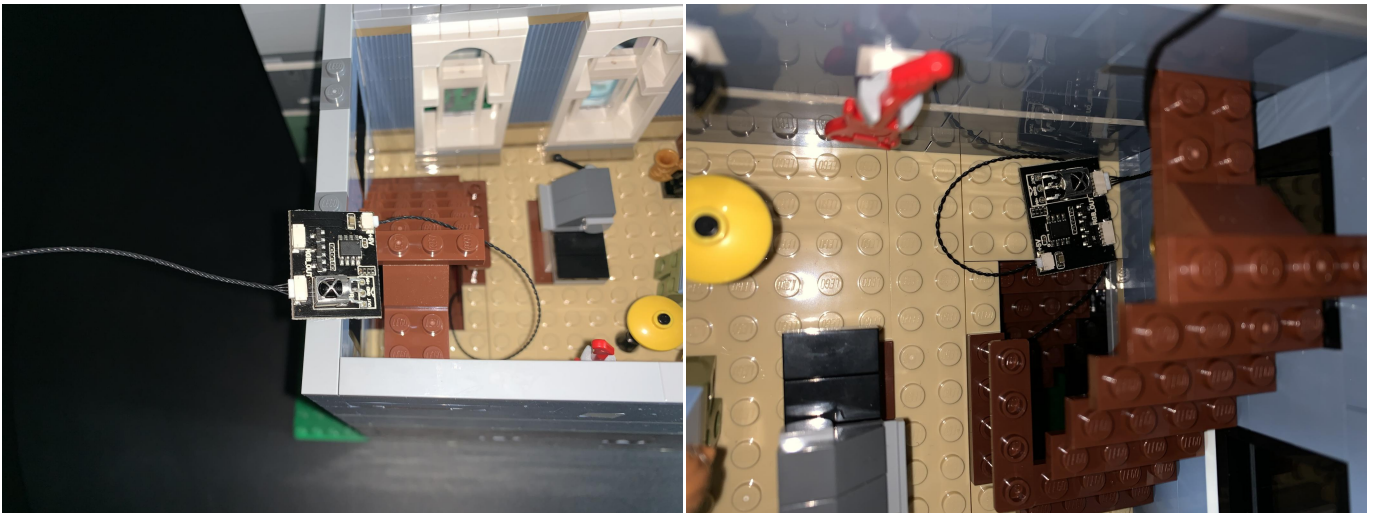
For the following striplight#2 and striplight#3, you can choose between LED strip light and the RGB strip light

If you choose the RGB strip light, follow the next steps, if you choose the LED strip light, jump right into the step (18)

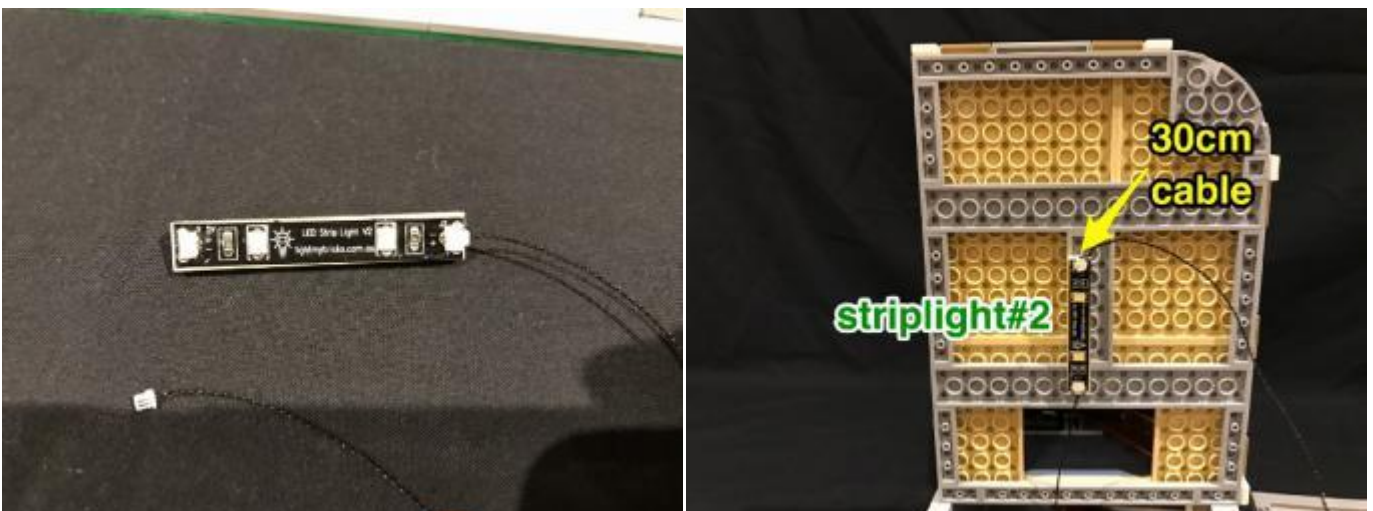
Instruction for installing the RGB strip lights: take a RGB remote control board, connect a 15cm RGB connecting cable to it



Connect the 15cm connecting cable from the lower floor to the input port (the smaller one) on the RGB board, secure the RGB board under the stairs by using the adhesive tapes. Then follow the next steps.

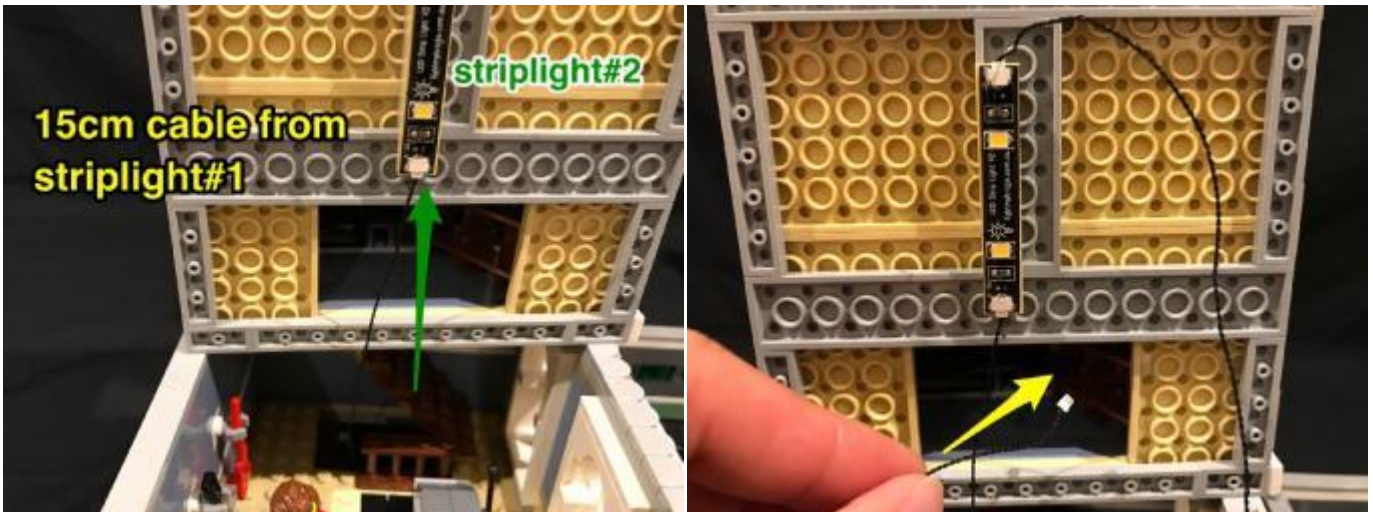


18.) take a white LED (or RGB) strip light, which we'll identify as striplight#2, connect a 30cm connecting cable (or a 15cm RGB connecting cable) to its port. Connect the third floor back, turn it over to its side, connect the striplight#2 to the following place

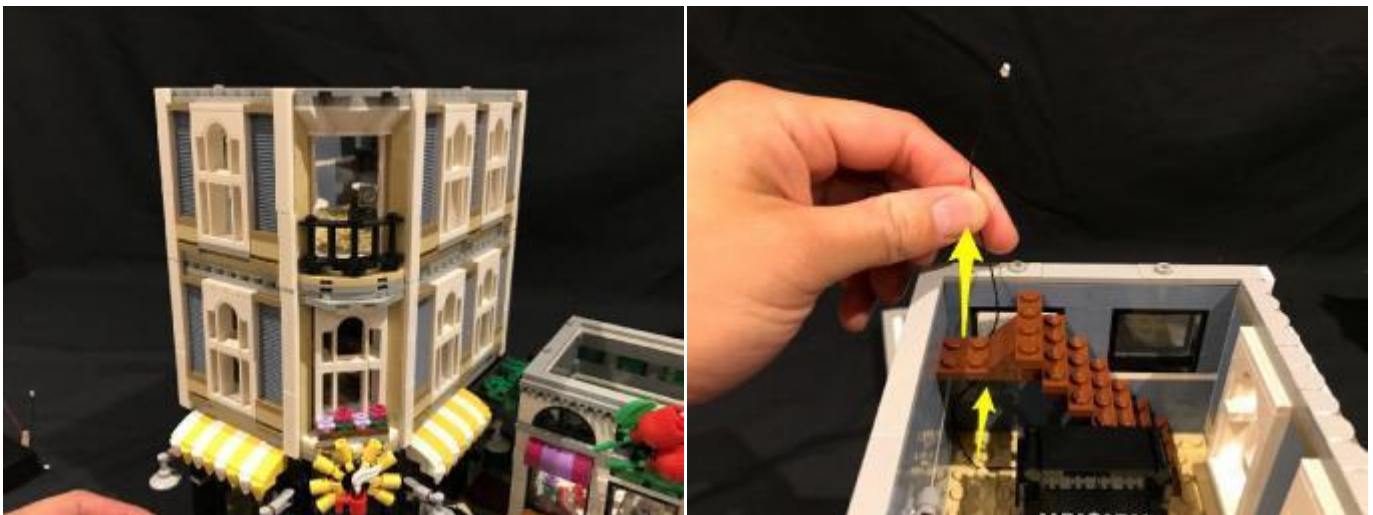


Connect the cable from the second floor to the other port on the striplight#2(connect the

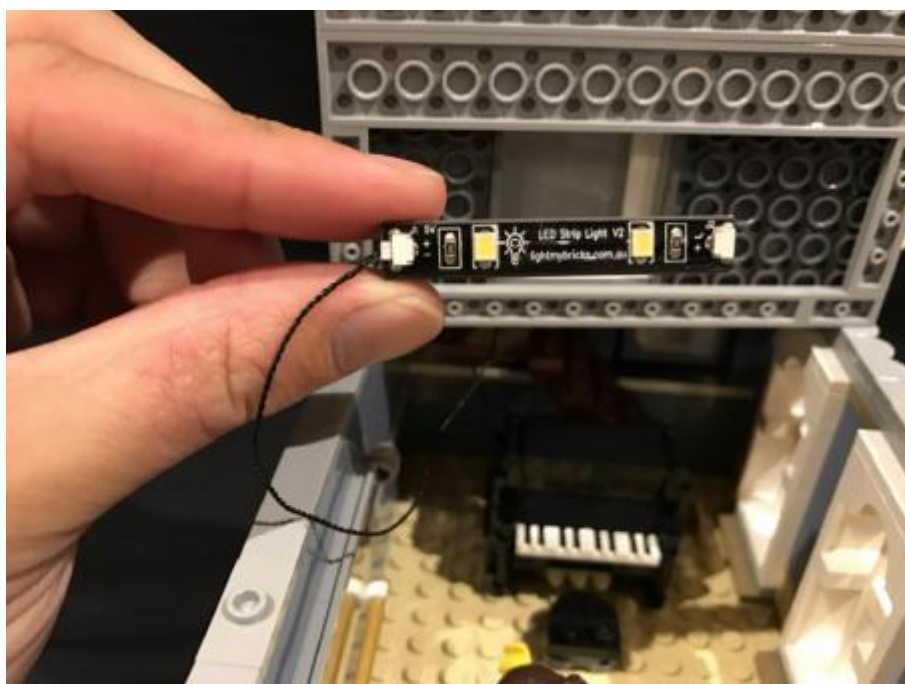
15cm RGB connecting cable from the RGB board to the other port on the striplight#2), thread the 30cm connecting cable (or the 15cm RGB connecting cable) up to the third level



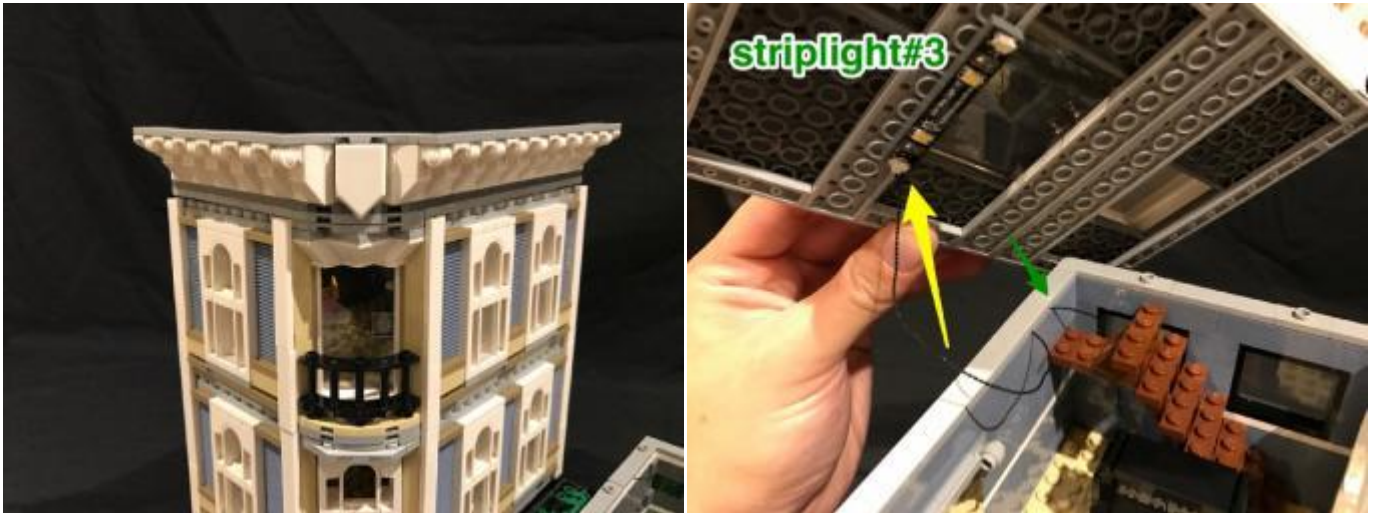
Connect the third floor over, pull the following cable out from the back of the stairs



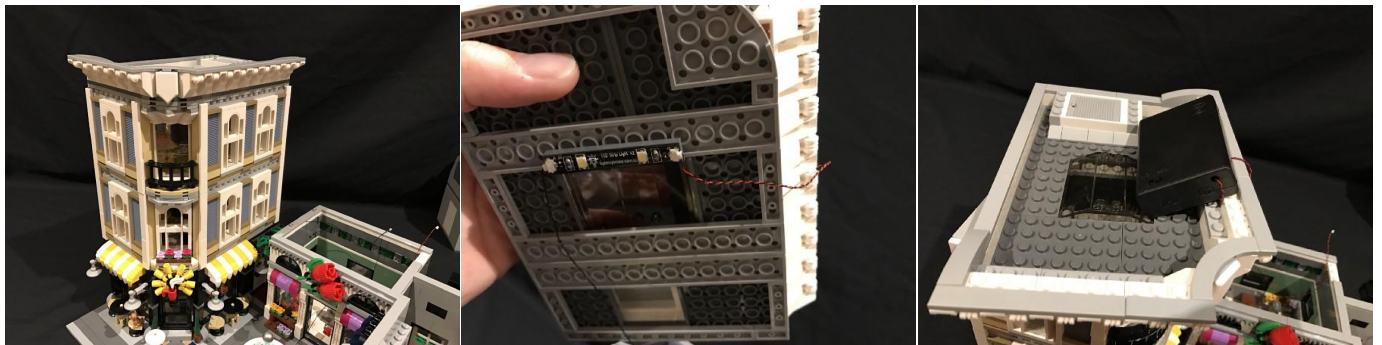
19.) take another strip light (or another RGB strip light), which is identified as striplight#3, connect the cable we pulled up from the lower floor to its left port



Reconnect the roof. Connect the striplight#3 to the following place, secure the cable underneath the gray plate (if you use the RGB strip light, you don't have to secure the cable)



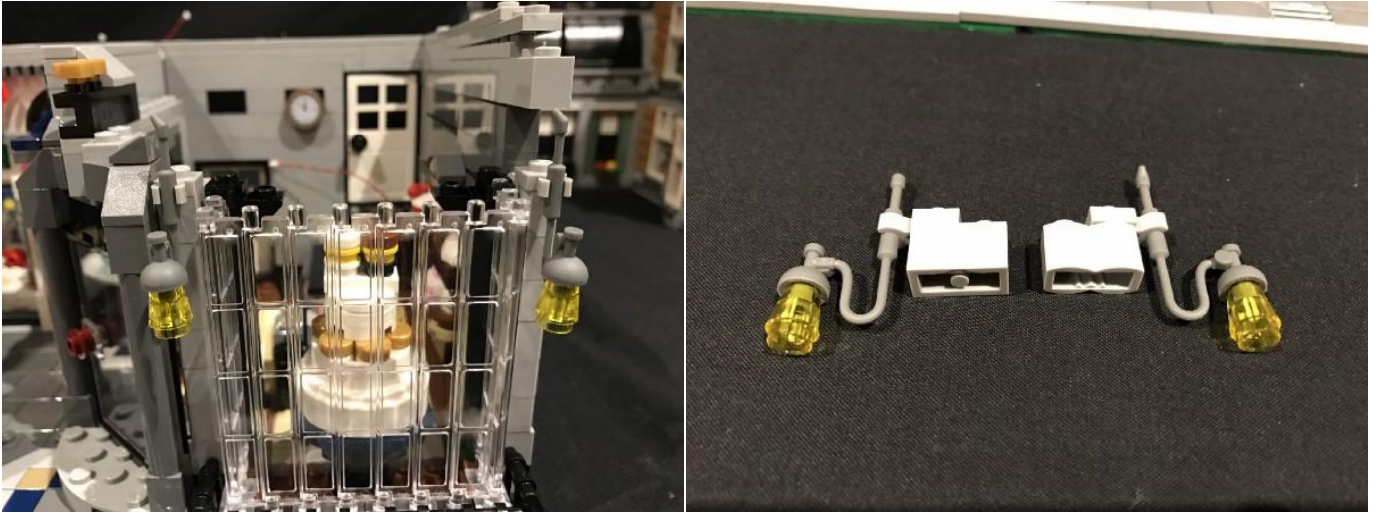
Reconnect the roof. This completes installing the lights for the left part of the square. Connect the cable of the battery pack to the port on striplight#3, turn the power on to test the current. (for the RGB strip light, after turning the power on, remove the battery separator from the remote, turn the strip light on by turning on the switch. Note: remote should be close to the RGB board as much as possible)



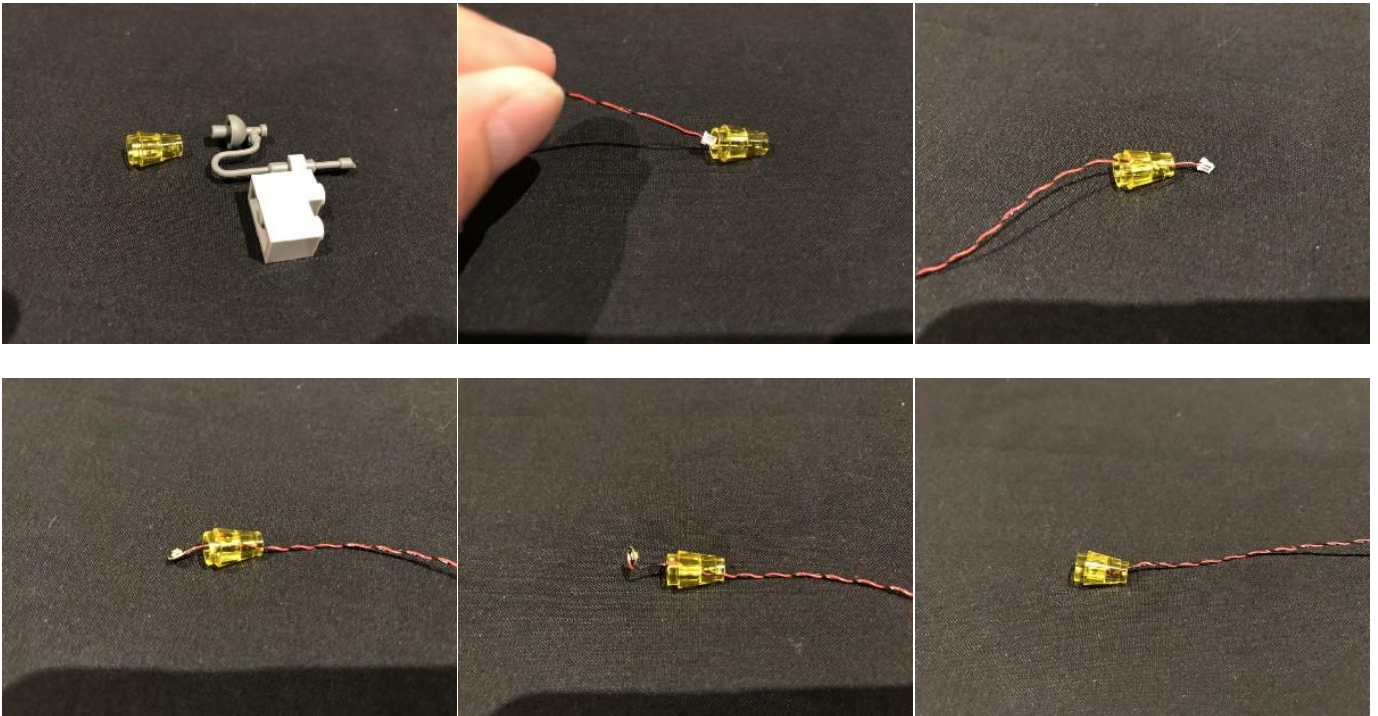


20.) We will move onto installing lights to the right side of the Assembly Square starting with the lamps in front of the patisserie. Remove the following tiles and pieces to give us access to disconnect the 2 lamps.

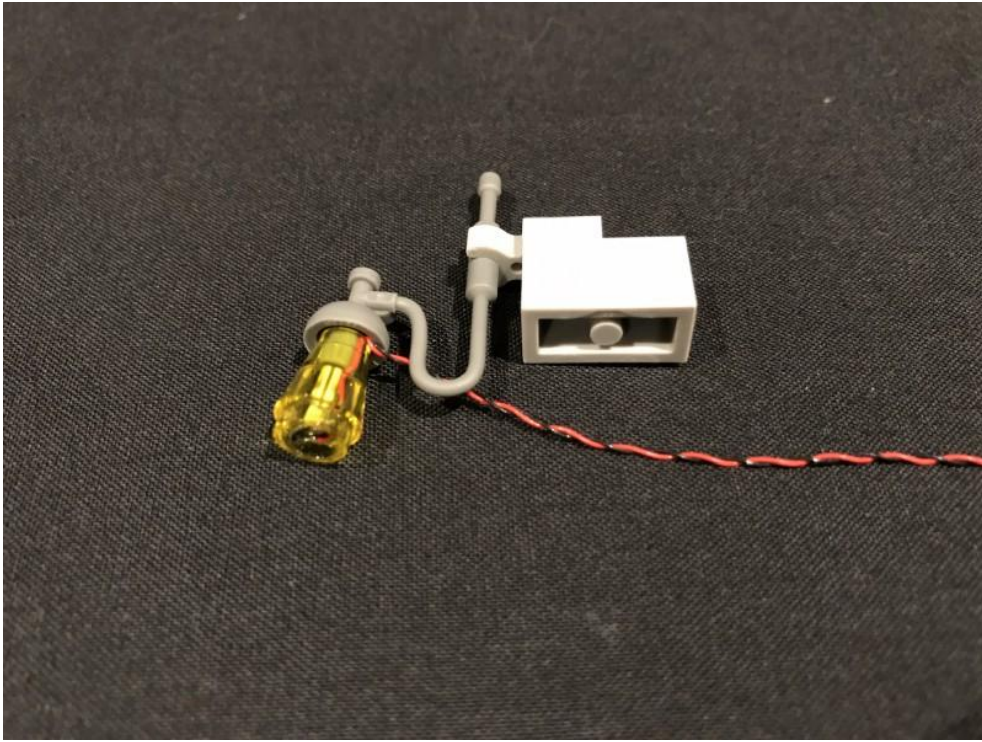




21.) Disconnect the trans yellow piece from each of the lamp sections. Take a Dot Light with 15cm cable and thread the connector side through the larger hole of the trans yellow piece. Thread it all the way through but before the LED component reaches the piece, bend the component part 90 degrees upward so that the LED component is facing up toward the inside, then pull the cable all the way through.



Reconnect the trans yellow piece with dot light installed back to the lamp section ensuring the cable is facing toward the back.



Reconnect the lamp section to the left side of the front window ensuring the cable is laid in between bricks.



Repeat this step to install another Dot Light with 15cm cable to the right lamp.

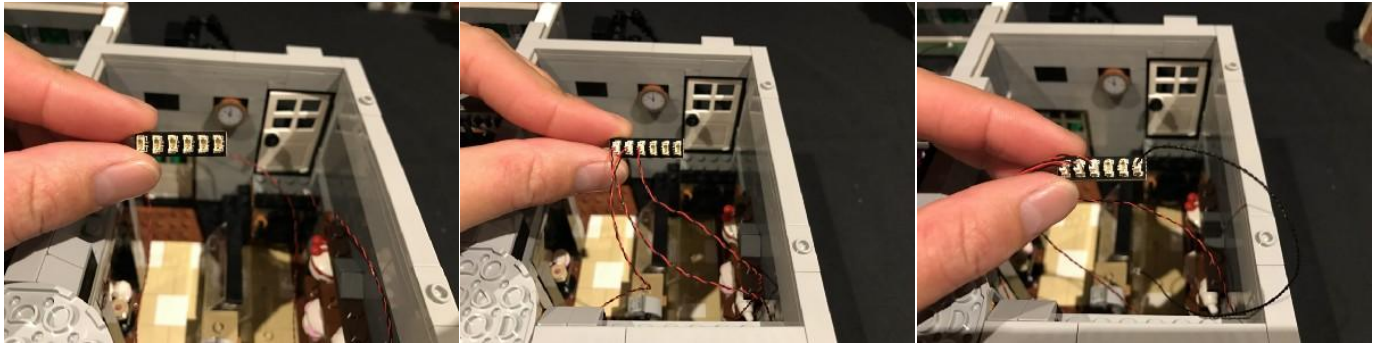


Reconnect the pieces we removed earlier ensuring the cables for the 2 lights are carefully hidden behind the wall.

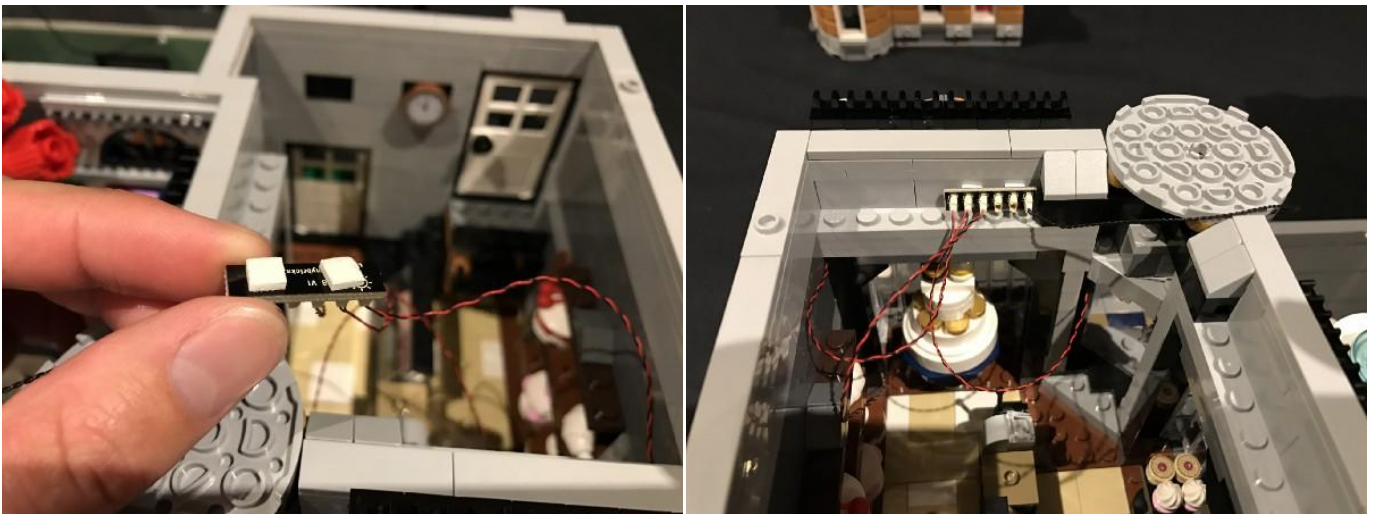




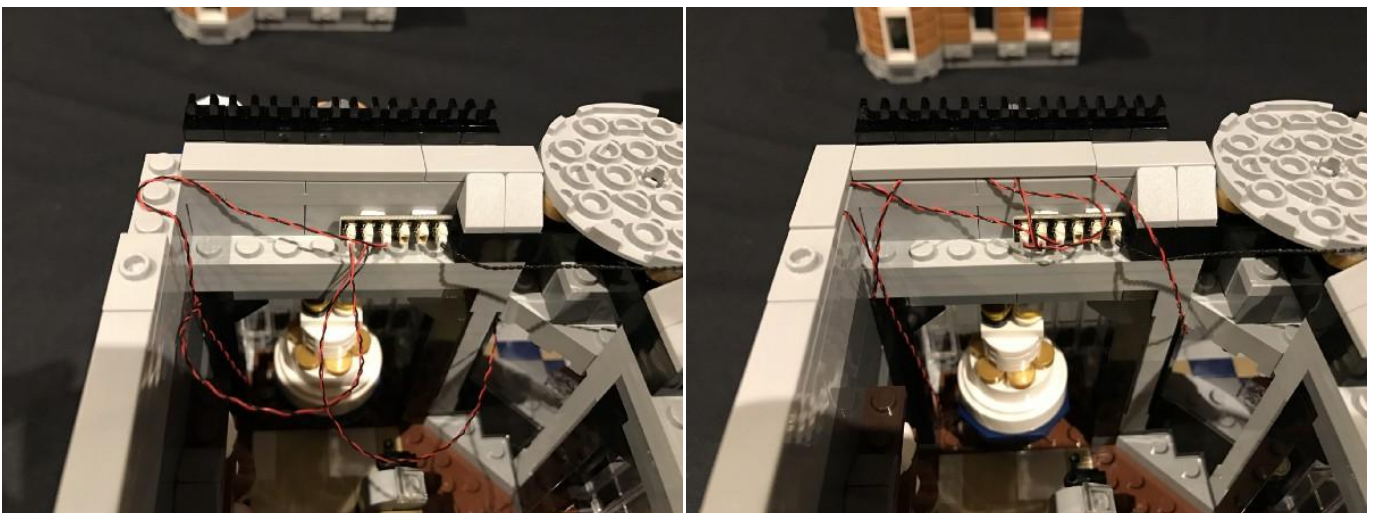
22.) Take a 6-port Expansion Board and connect cables from the 2 lamps we just installed, the lamp post from this side as well as another 15 cm connecting cable into the available ports.



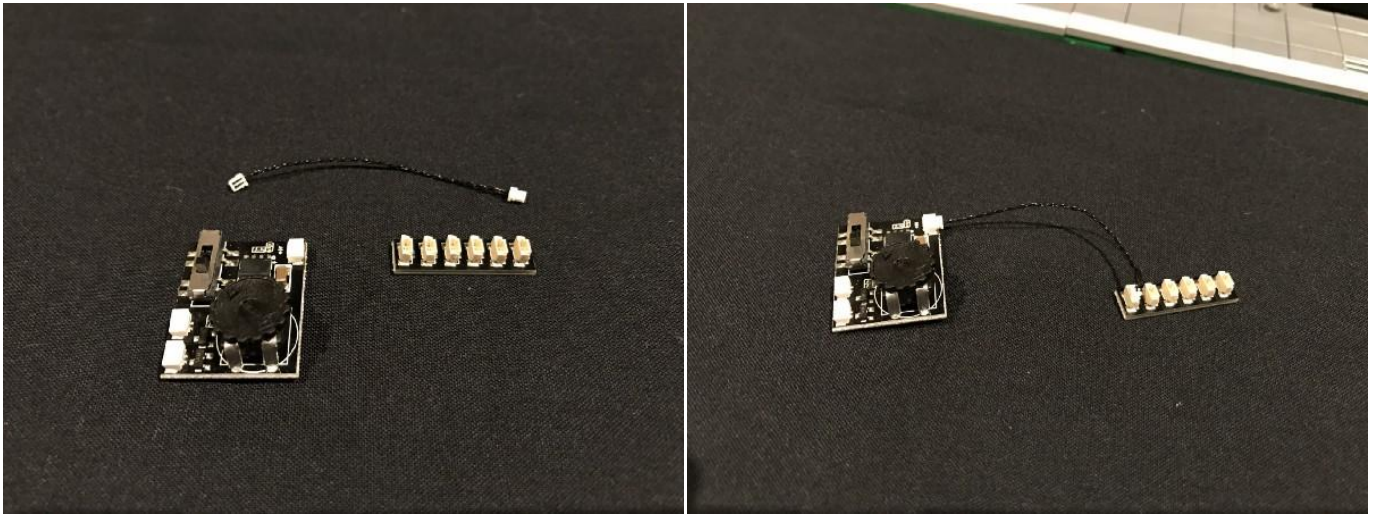
Use another 2 adhesive squares to mount the expansion board to the inside of the patisserie as per below:



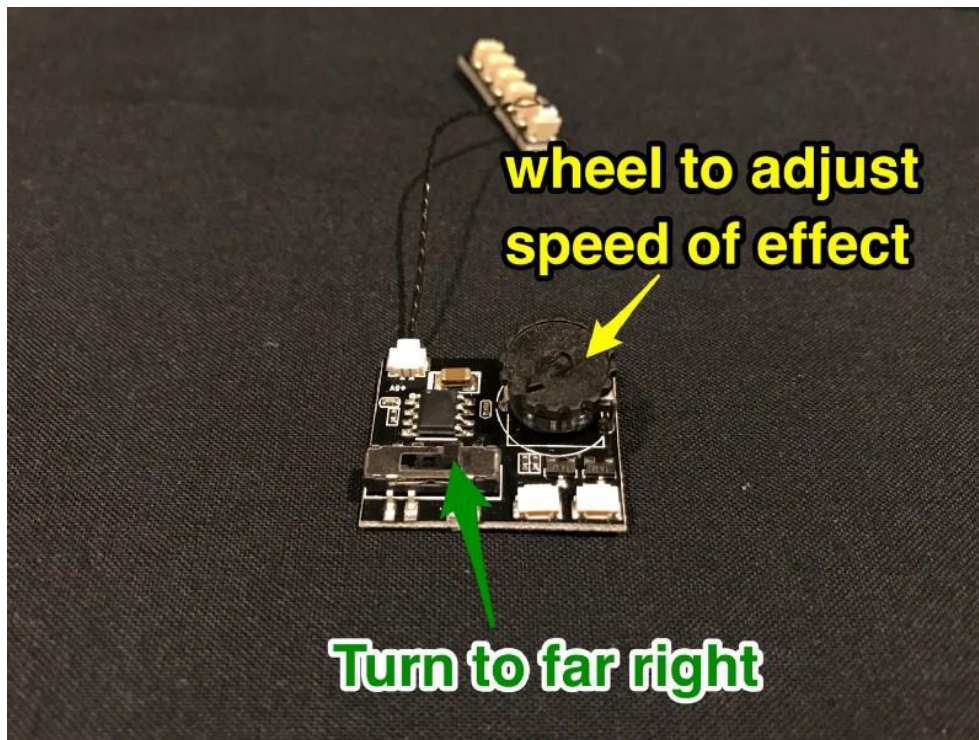
Eliminate excess cable from the dot lights by laying them underneath the grey tiles in between the studs. Try to hide as much cable from being seen from the outside looking in.



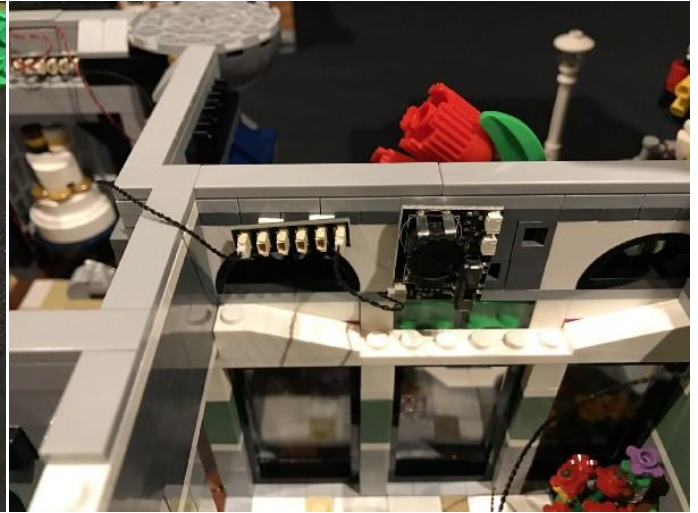
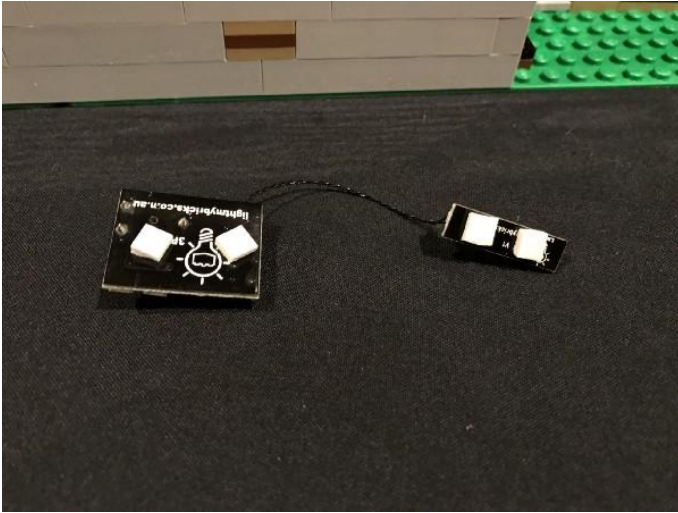
23.) Take the Multi Effects Board and then connect this to another 6-port Expansion board using a 5cm connecting cable. Connect the cable into the port on side of the effects board which only has one port.



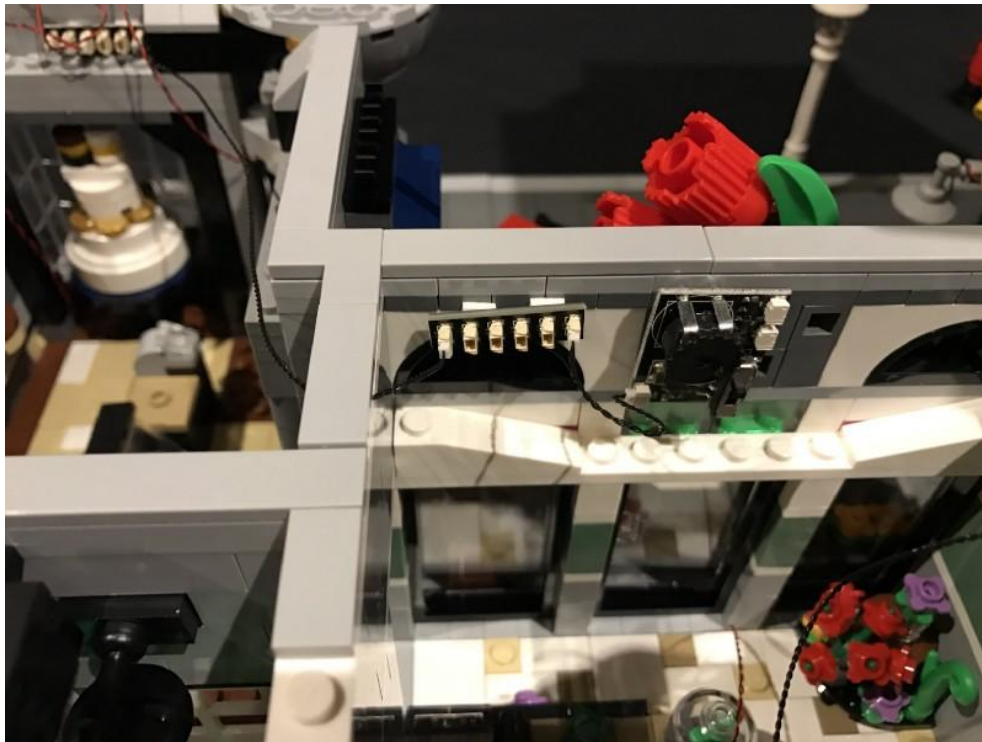
This multi effects board has 3 different effects. For this light kit, we will be using effect# 3 (flicker effect). Set it to the 3rd option by flicking the switch to the far right. We will later use the wheel on the effect board to adjust the speed of the flicker effect as desired.



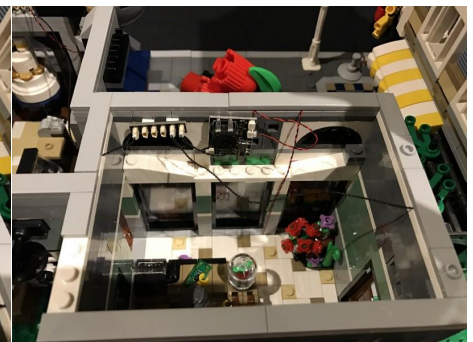
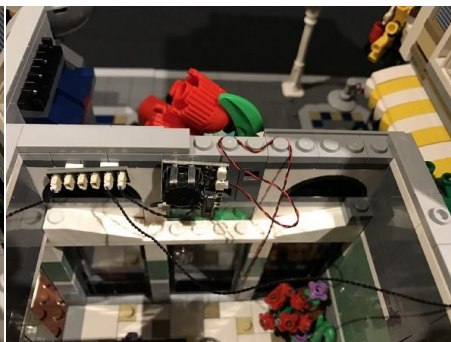
24.) Using another 2 adhesive squares for each, mount the 2 different boards to the inside wall of the flower shop and connect the 15cm cable from expansion board in the patisserie into the first available port of the 6-port expansion board as per below:



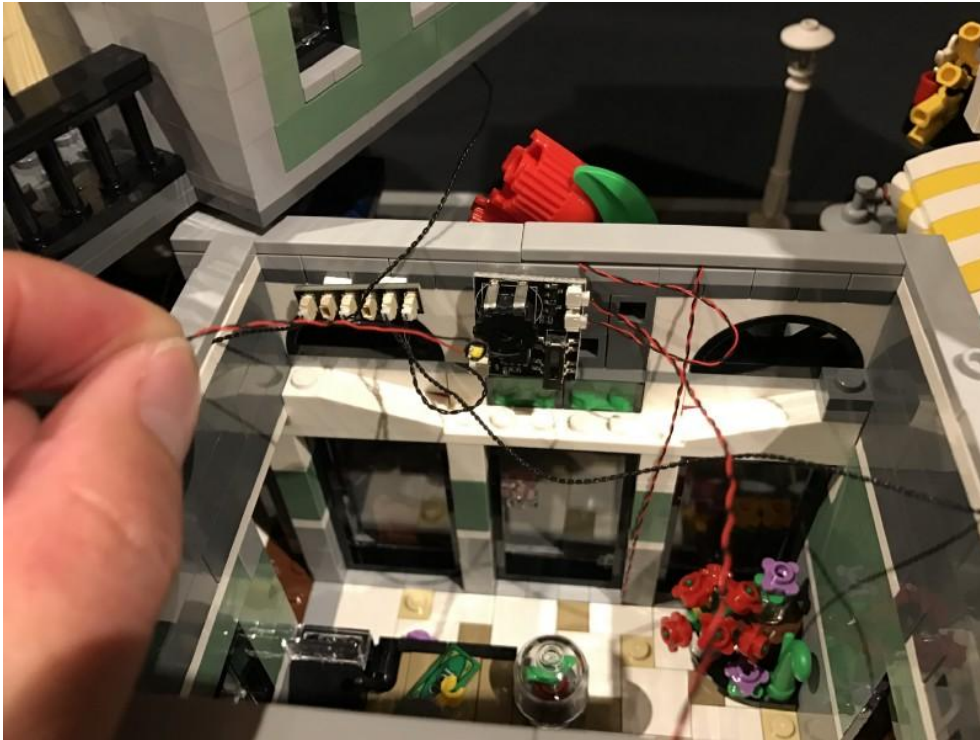
Lay the 15cm connecting cable in between studs underneath the grey tile.



25.) Connect the dot light cable from the fountain into the bottom port of the multi effects board. Pull the dot light cable up and then secure underneath the grey tiles on the top ensuring they are laid correctly in between studs as per below. Do your best to hide as much cable as you can from being seen from the outside looking in.



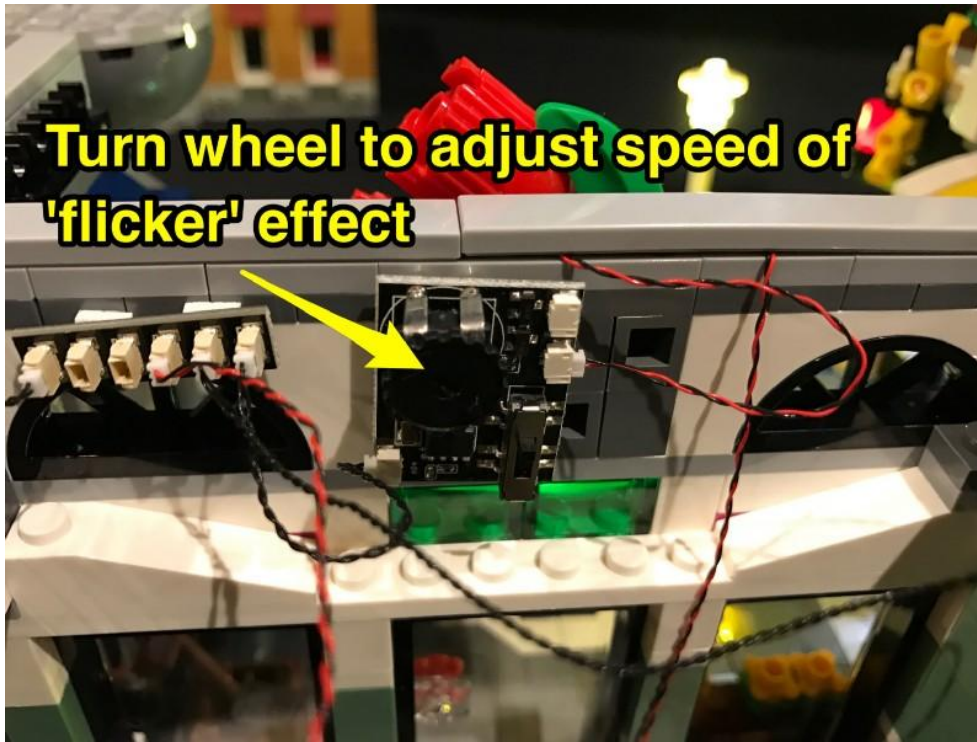
26.) Take a Warm White Dot Light with 30cm cable and connect it to the top port of the multi effects board. Set the other end of this cable aside for now as we will later use this for the flame of the bbq on the top floor.



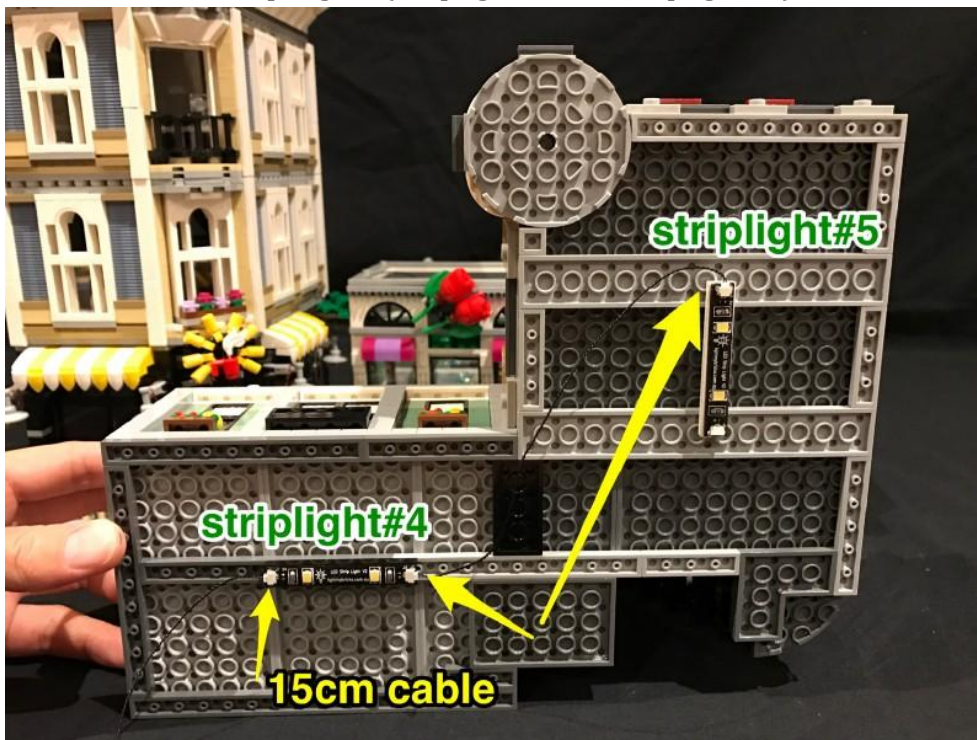
27.) We will now test the lights we have installed so far as well as adjust the speed of the flicker effect for the fountain. Take the battery pack and connect the battery pack cable into any of the spare ports of one of the expansion boards. Turn on to verify all is working ok.



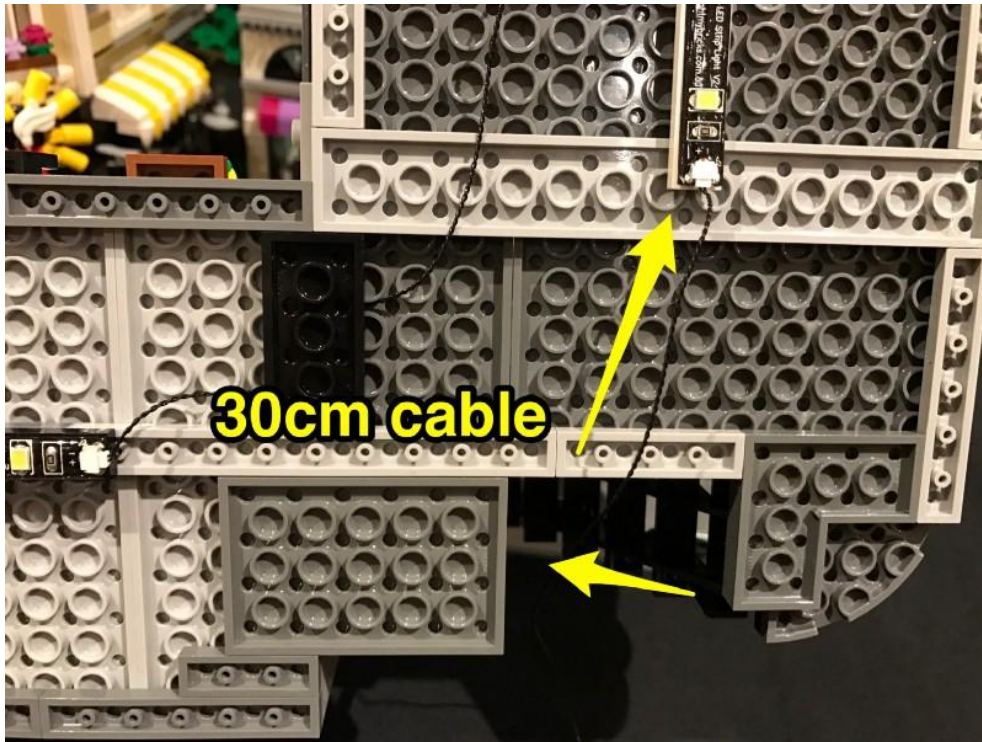
Review the speed of the flicker effect on the fountain and turn the wheel either clockwise (faster) or anti clockwise (slower) until you are happy with the effect it gives for the fountain to have a realistic water-flowing look.



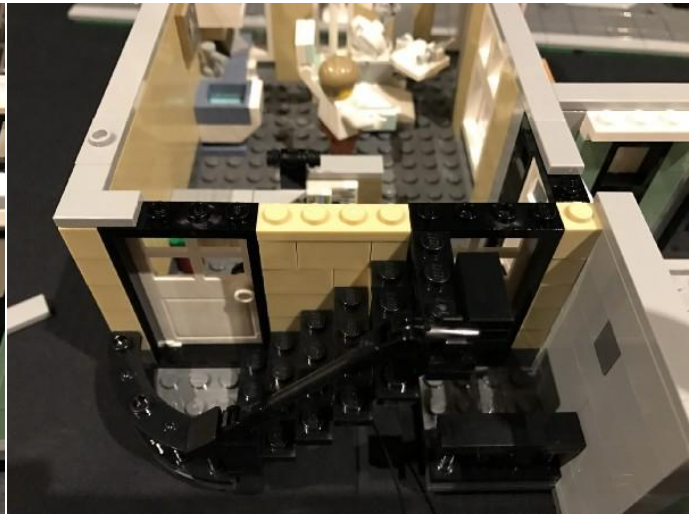
28.) Remove the battery pack and then take the second level of this building and turn it on its side so that we can install 2 more LED Strip Lights (striplight#4 and striplight#5) to the following positions.



Connect a 15cm connecting cable in between the 2 strip lights, another 15cm connecting cable to the left port of striplight#4 and a 30cm connecting cable to the bottom port of striplight#5.



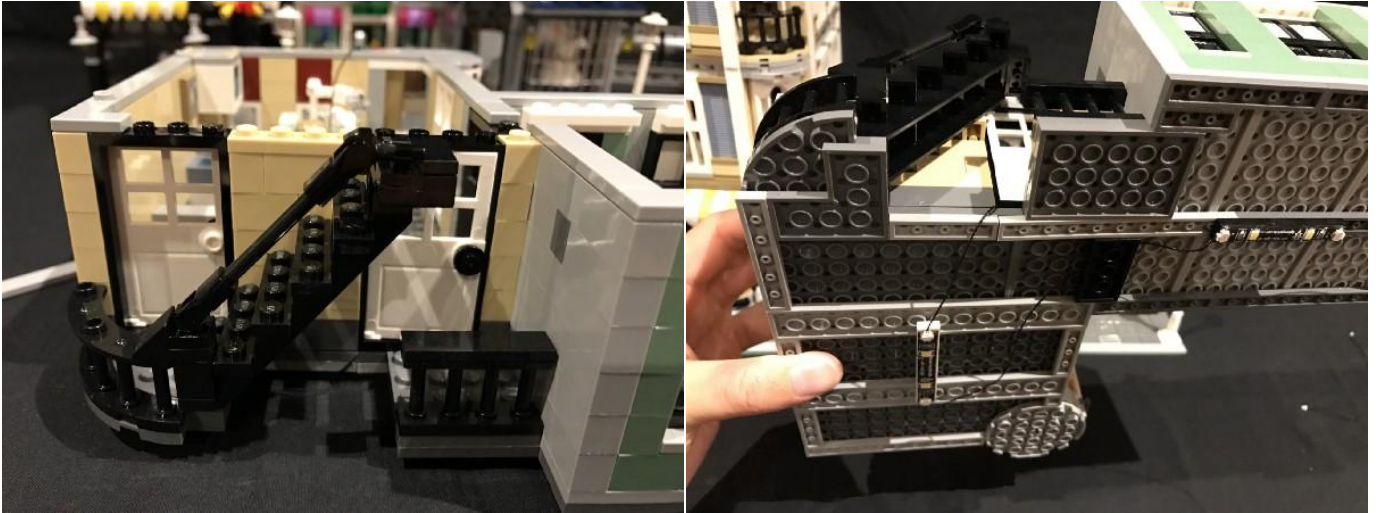
29.) Turn this section over to its correct side up and then remove the following pieces to allow us to then remove the right door.





Pull the 30cm cable up from underneath and then lay the cable toward the inside of the floor. Place the cable in the corner of the door way before then reconnecting the door back in place securing the cable. Try to ensure there is minimal cable between striplight#5 and the doorway. Reconnect the surrounding pieces we removed earlier.

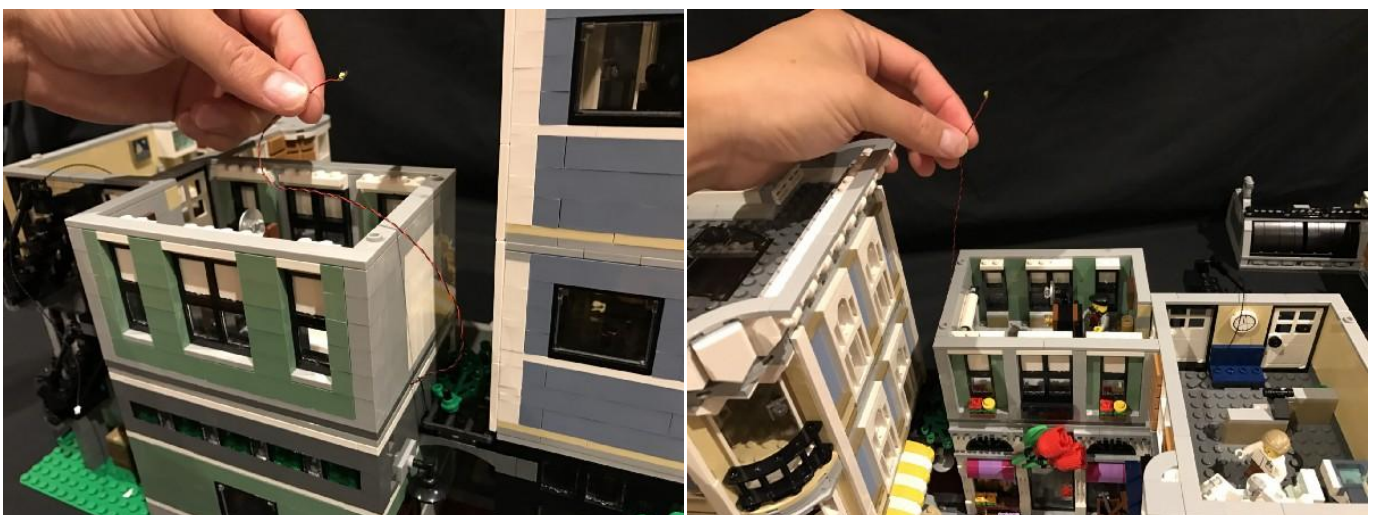




30.) Connect the other end of the 15cm cable from striplight#4 to one of the available ports on the expansion board in the flower shop then reconnect the entire second level back on top.

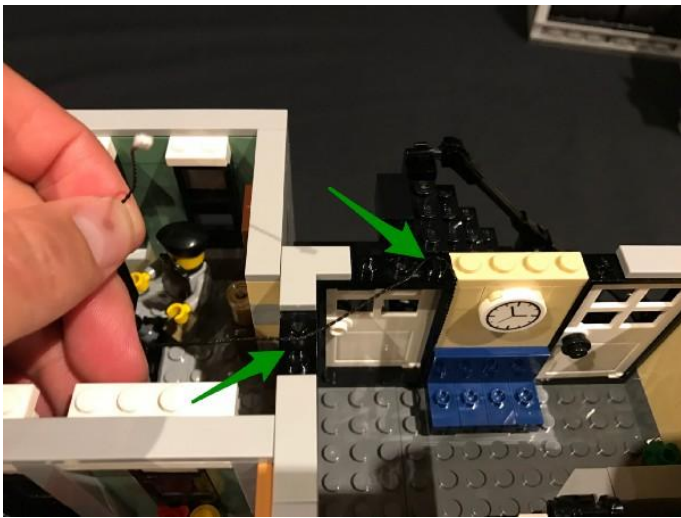
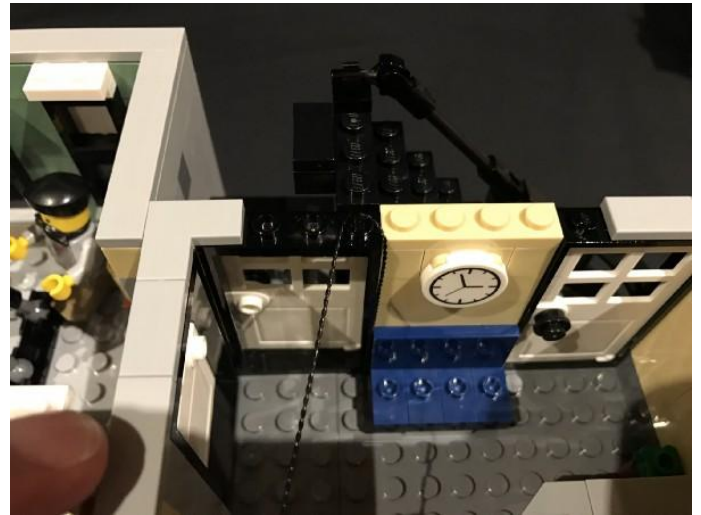
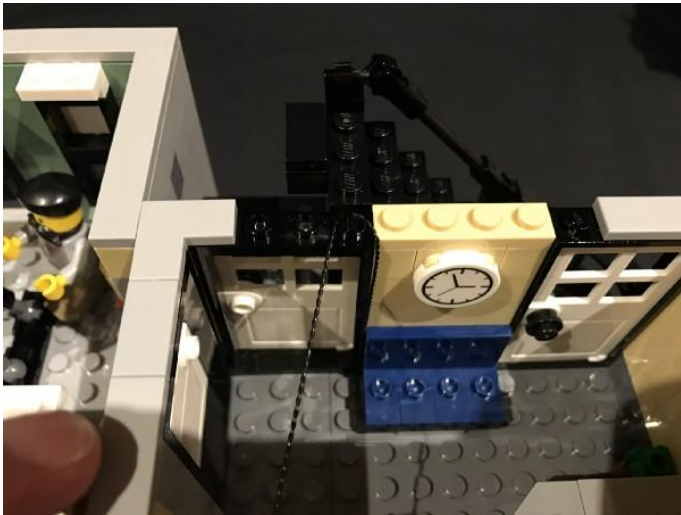


Ensure the dot light from the effects board is pulled all the way out from the side of the building.

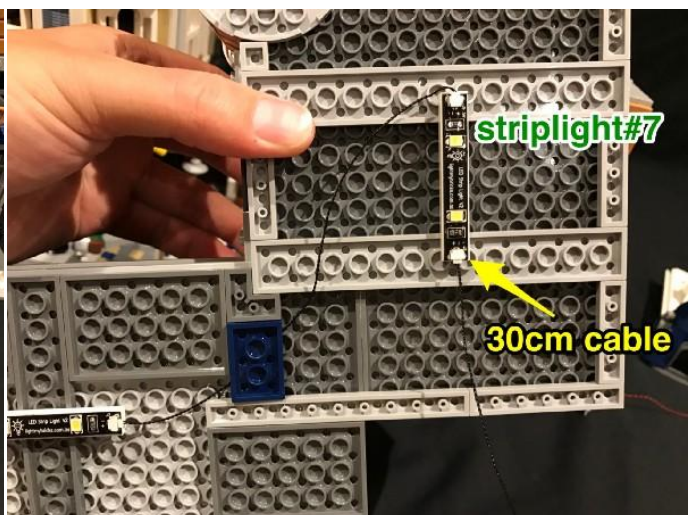


31.) Locate the other end of the 30cm cable we pulled up from underneath the door and pull it up and secure it underneath the grey tile on top. Pull the cable across to the left side and then secure this underneath another grey tile.

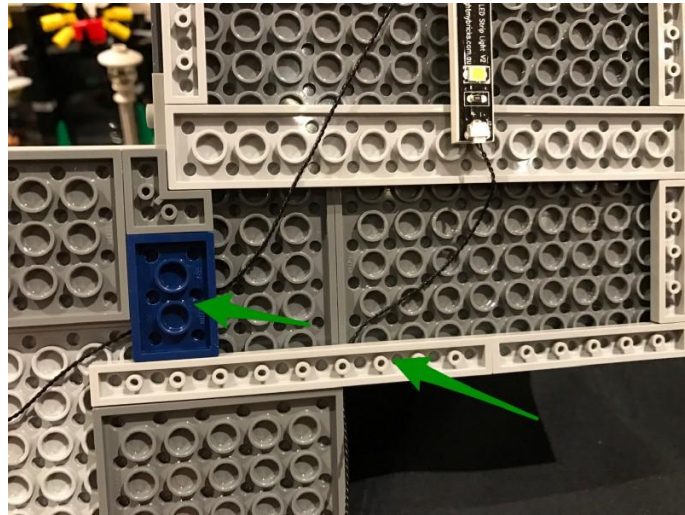




32.) Take the entire top level and then turn it on its side to allow us to be able to install another 2 LED strip lights (striplight#6 and striplight#7) to the following positions. Connect a 15cm cable in between the 2 strip lights and then connect a 30 cm cable to the other port on striplight#7.



To prevent the cable from hanging down and being seen from the outside looking in, connect pieces over the top.



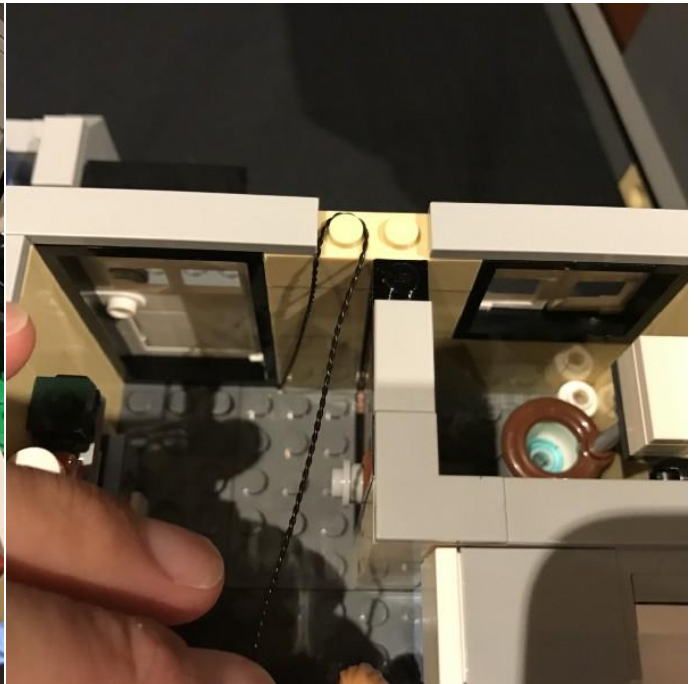
33.) Turn the top level back over to its correct way up and then remove the following pieces to allow us to then remove the door.



Pull the 30cm cable up from underneath and then thread the cable through to the inside of the building. Reconnect the door over the top of the cable, same way we did for the level below, then reconnect the surrounding pieces.



34.) From the top floor apartment, pull the 30cm cable up and secure it underneath the grey tiles as per below.



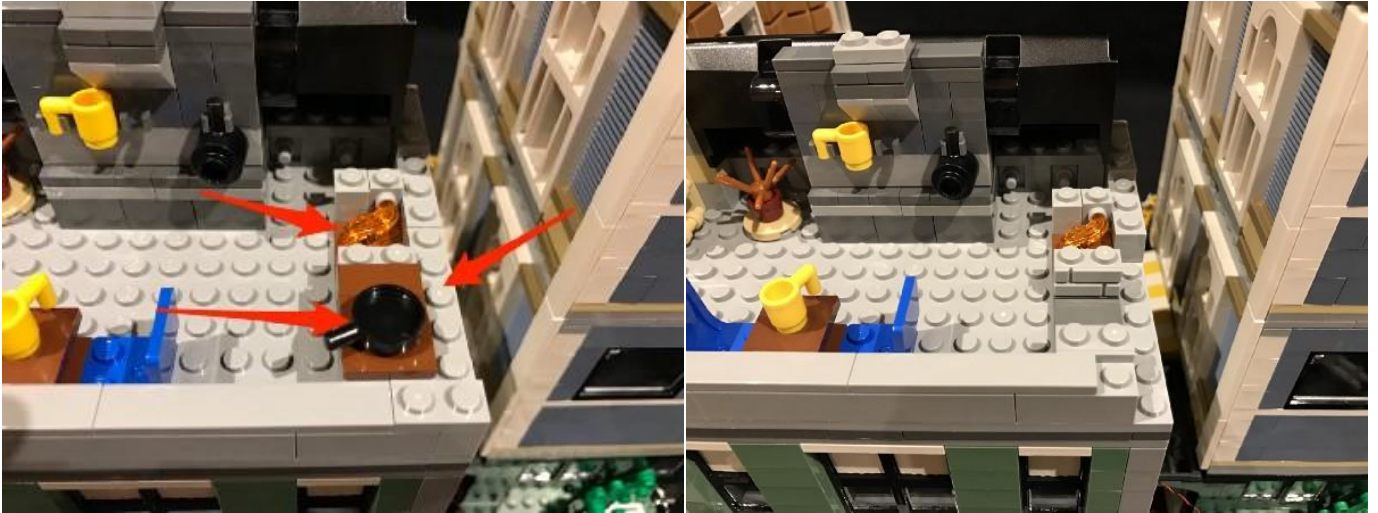


35.) Take the entire top floor and then connect the other end of the 30cm cable from underneath to striplight#6 then reconnect the top floor back on top of the building.

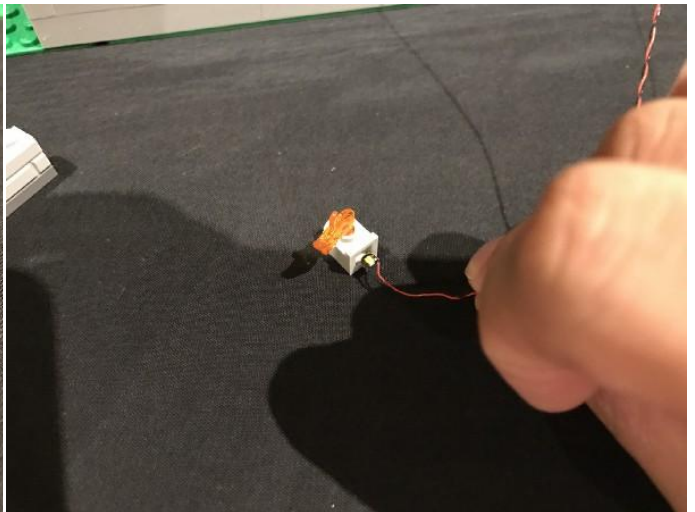
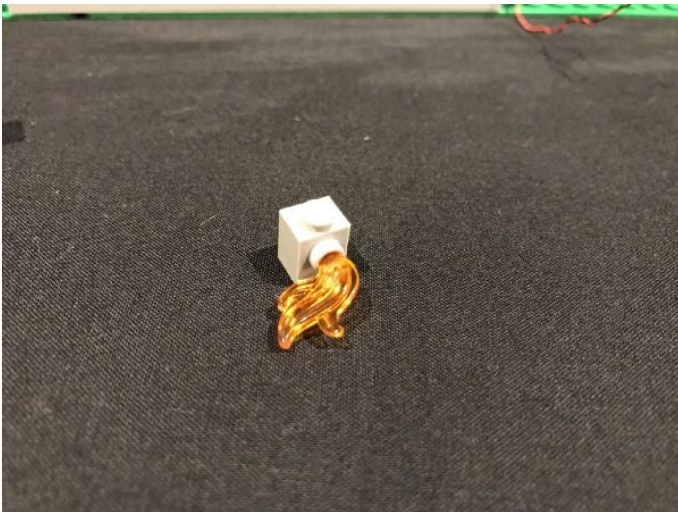


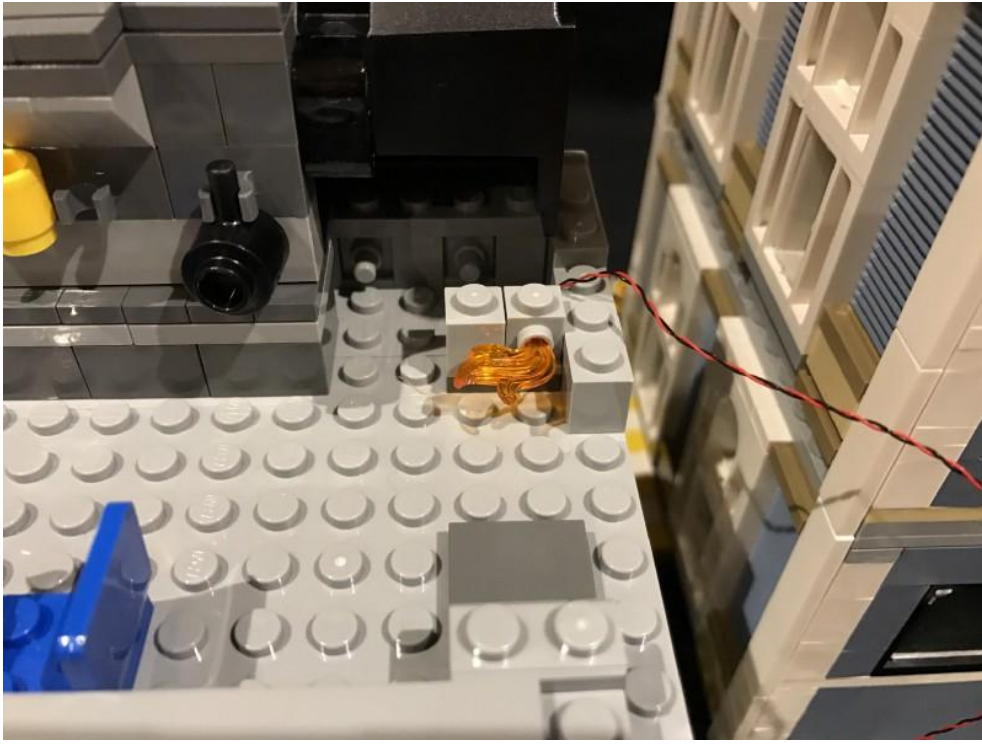
36.) Now that we have reconnected the entire top floor, we can now install the other dot light to the flame of the bbq (hanging on the side of the building). Start by removing the following pieces.



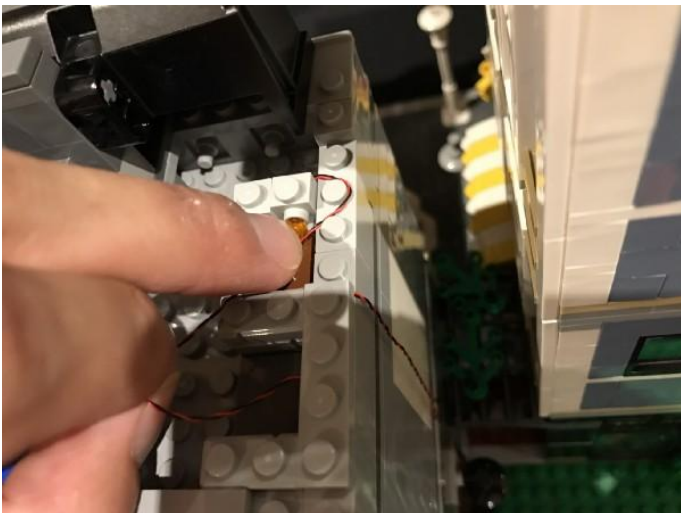
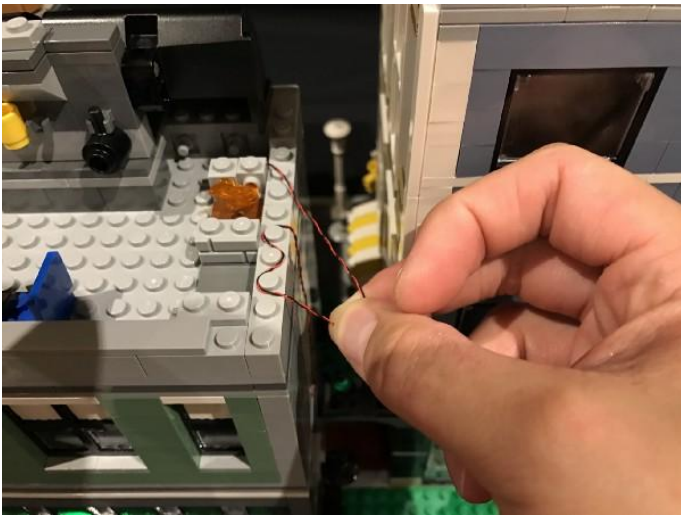


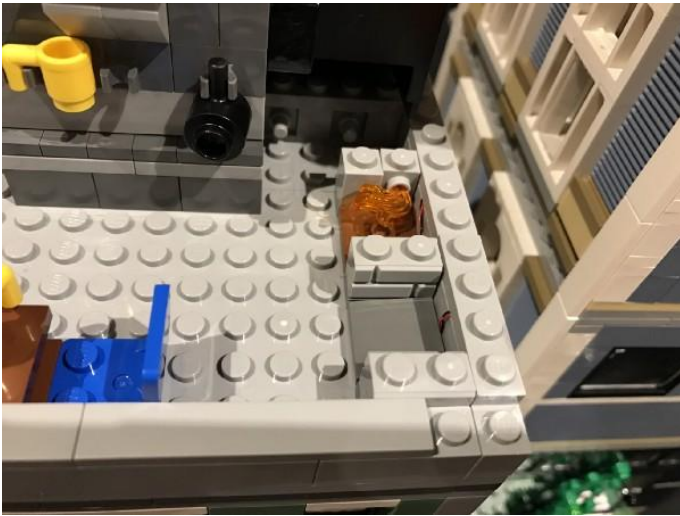
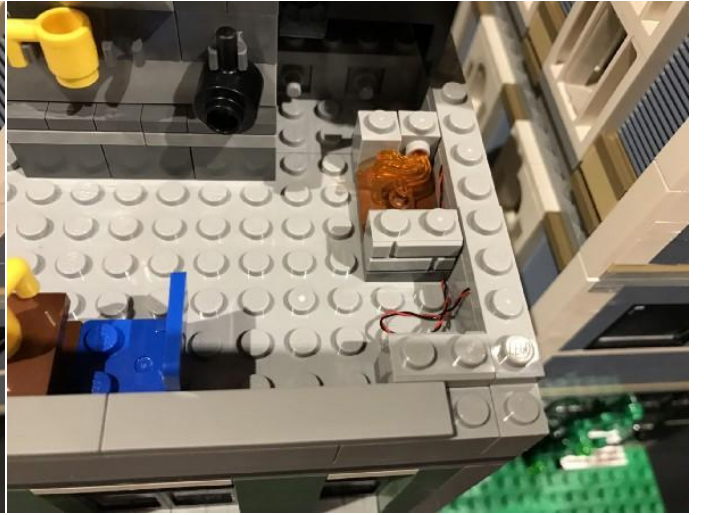
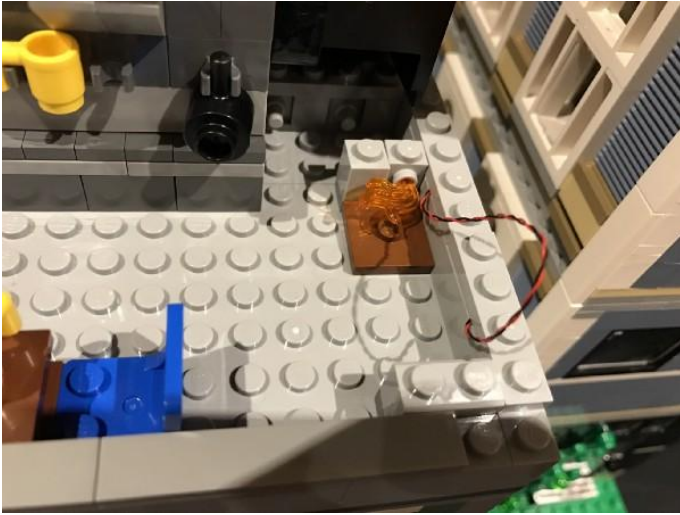
Remove the grey 1x1 brick with flame piece attached and take the dot light from below and then thread the LED component through the back of the 1x1 brick. Ensure the LED component is facing toward the flame piece. Hold it in place before then reconnecting this brick back to its original location.





Reconnect the pieces we removed earlier, piece by piece. Follow the images below to lay the cable in between studs and underneath bricks as you reconnect them.

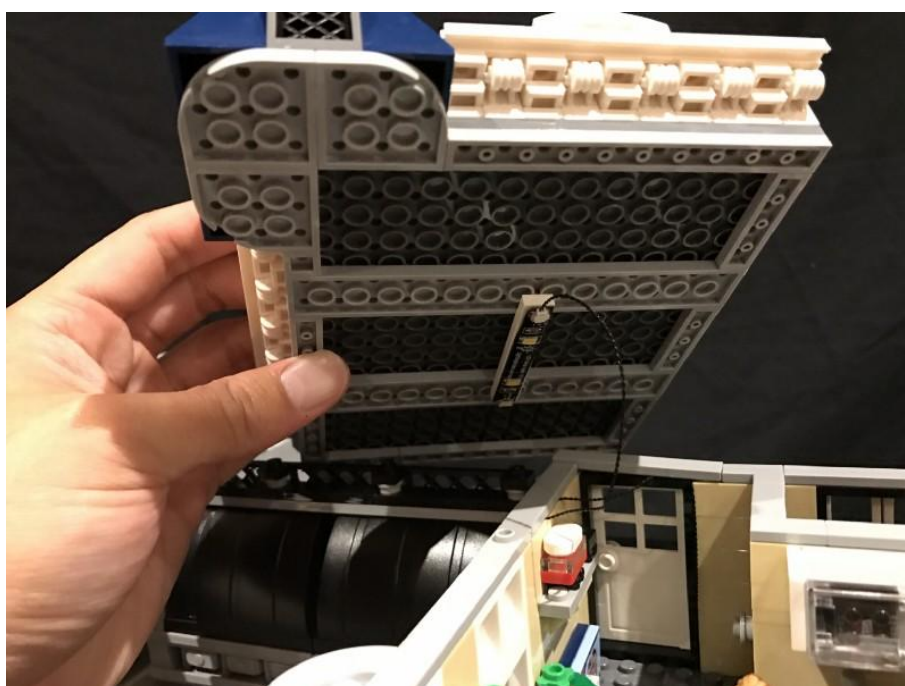
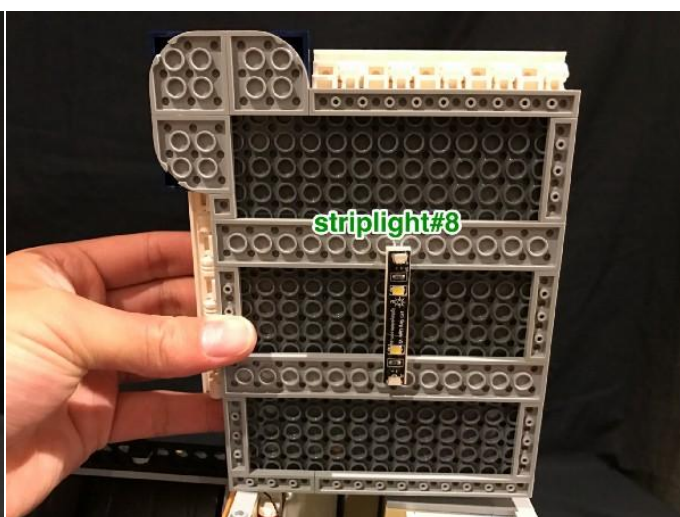
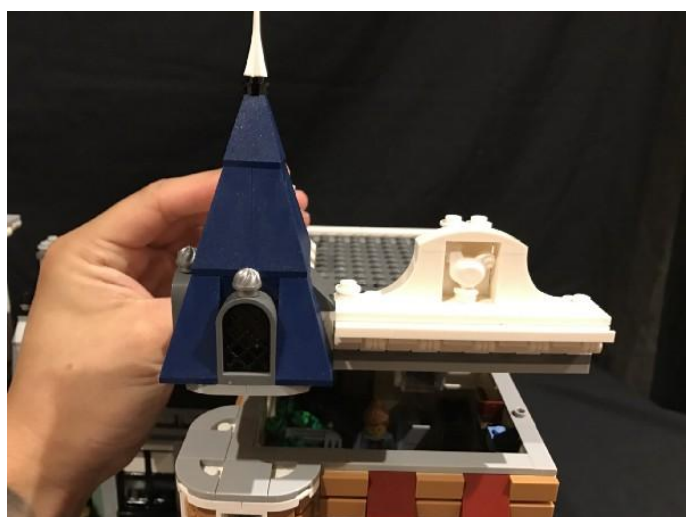




The main thing we want to do is to ensure there is minimal excess cable running up the wall. You can also use a dot of tape to secure the cable to the wall and prevent it from hanging loosely.

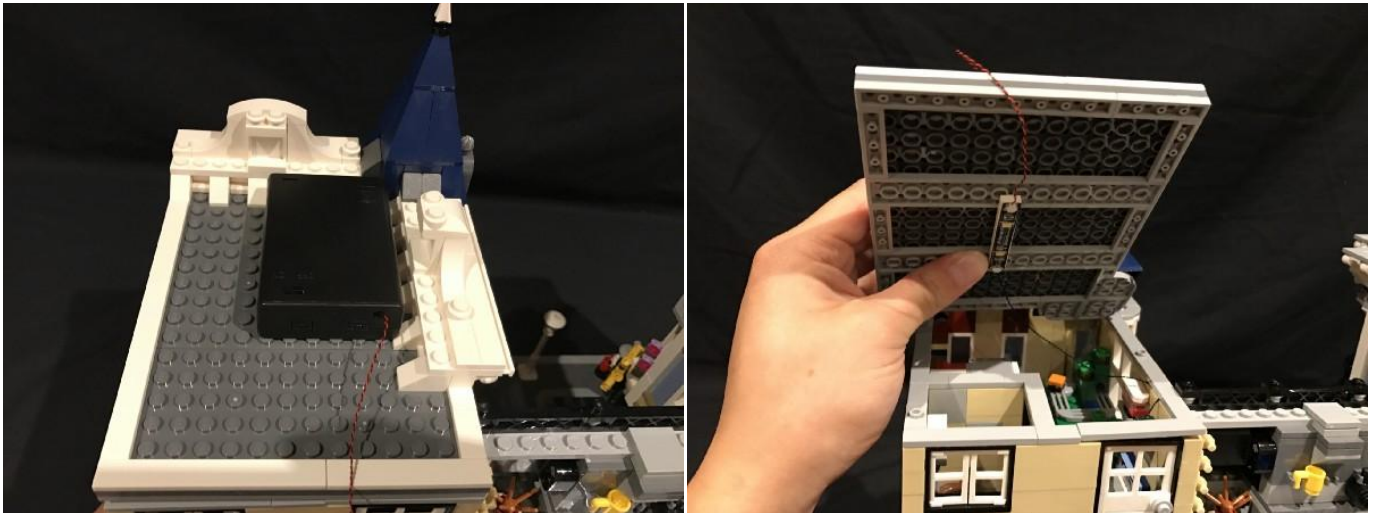


37.) Take the roof of the building (above the top floor apartment) and install the final LED Strip Light (striplight#8) to the following position underneath then connect the 30cm from underneath into the port closest to the front of striplight#8.





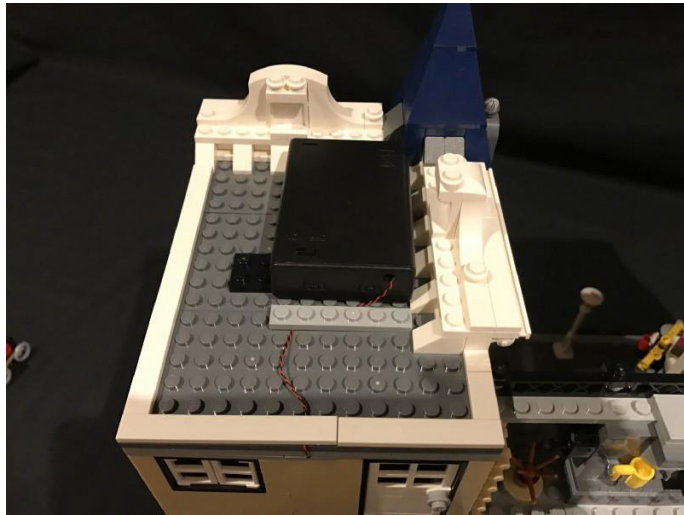
38.) Take the battery pack and connect the battery pack cable to the back port of striplight#8 then reconnect the roof back on top.



39.) Place the battery pack on the roof of the building in the following position. You can also secure the cable underneath the white tile on the roof.



You can also use other pieces to secure the battery pack from moving around, similar to what I have done below.



This now completes installation of the Assembly Square LED Light Kit. Your light kit is now ready to be turned on!

