

# Ideas Central Perk 21319 Advanced Version Lighting Kit

## Package contents:

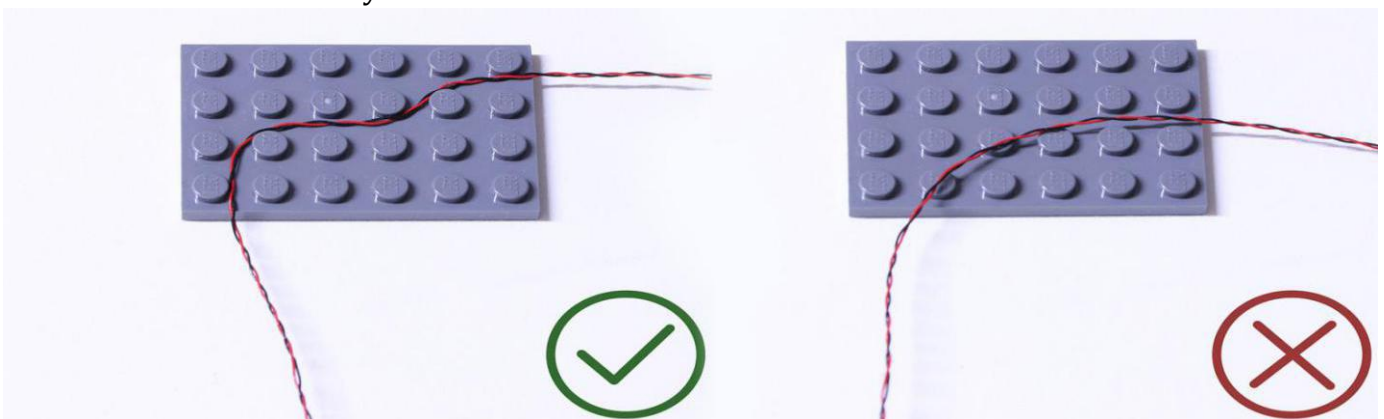
- 4 x 15cm Warm White Dot Lights
- 1 x 30cm Warm White Light
- 1 x 15cm Warm White Light
- 2 x Warm White Strip Lights
- 1 x Multi Colour Light String
- 3 x 5cm Connecting Cables
- 2 x 30cm Connecting Cables
- 1 x 2-port Expansion Board
- 2 x 6-port Expansion Boards
- 1 x Flicker Effects Board
- 1 x USB Cable

Extra LEGO pieces

## Note:

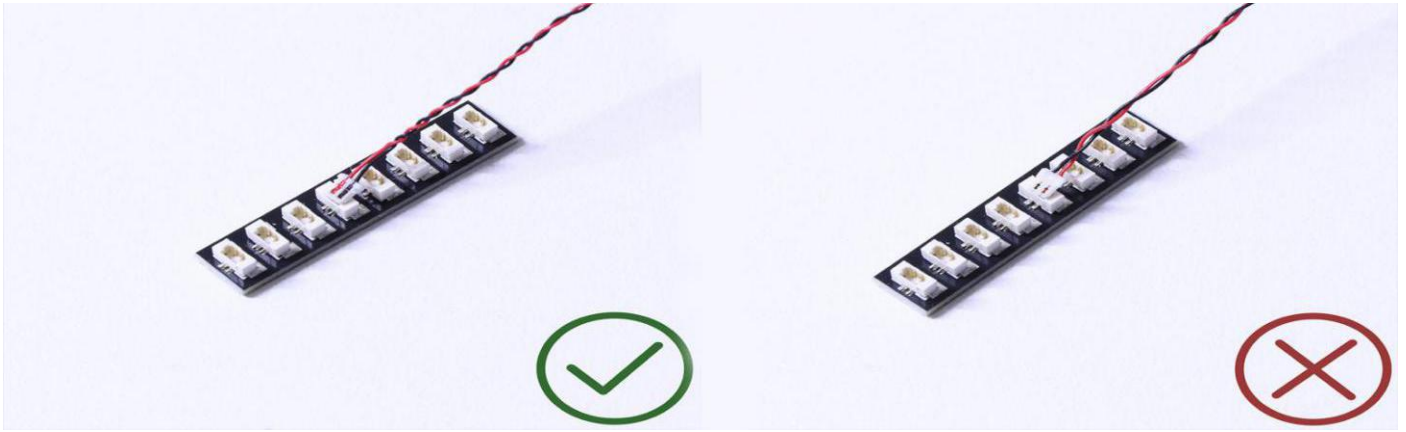
Place wires on the surface or under the LEGO building blocks.

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

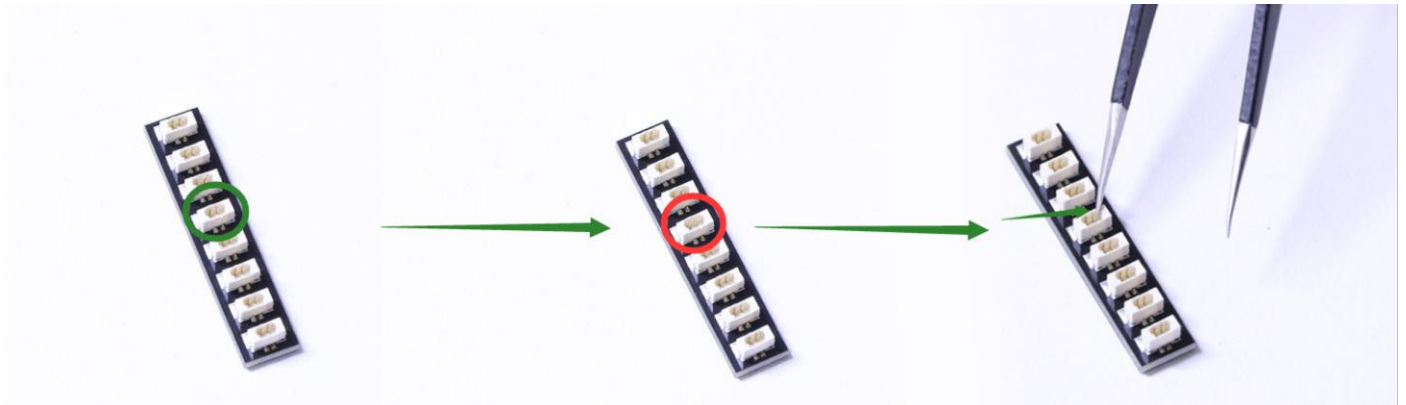


Insert the connectors to the ports.

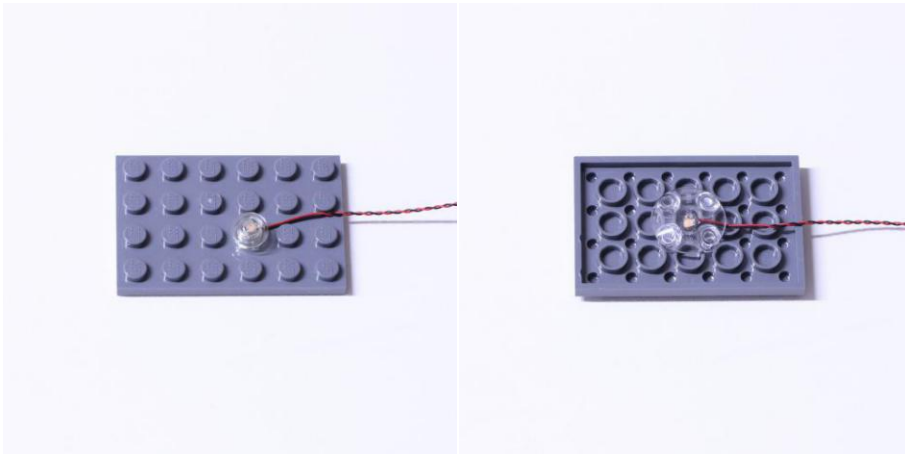
Be careful when you are operating, there's only one correct way to insert, make sure the expansion board is upward, find the soldered "=" sign on the left of the port. When you are inserting, the side which the wires can be seen should be faced to the "=" sign and if you feel hard to insert, please stop,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

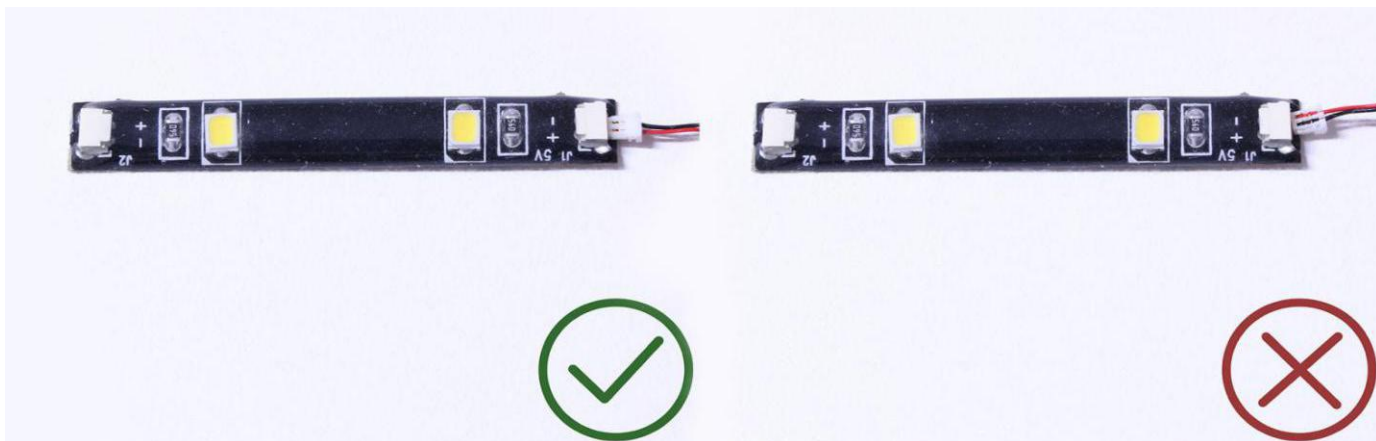


When installing dot lights, make sure they are correctly placed (Yellow LED package is exposed). You can put them either on the top of the studs or between studs.

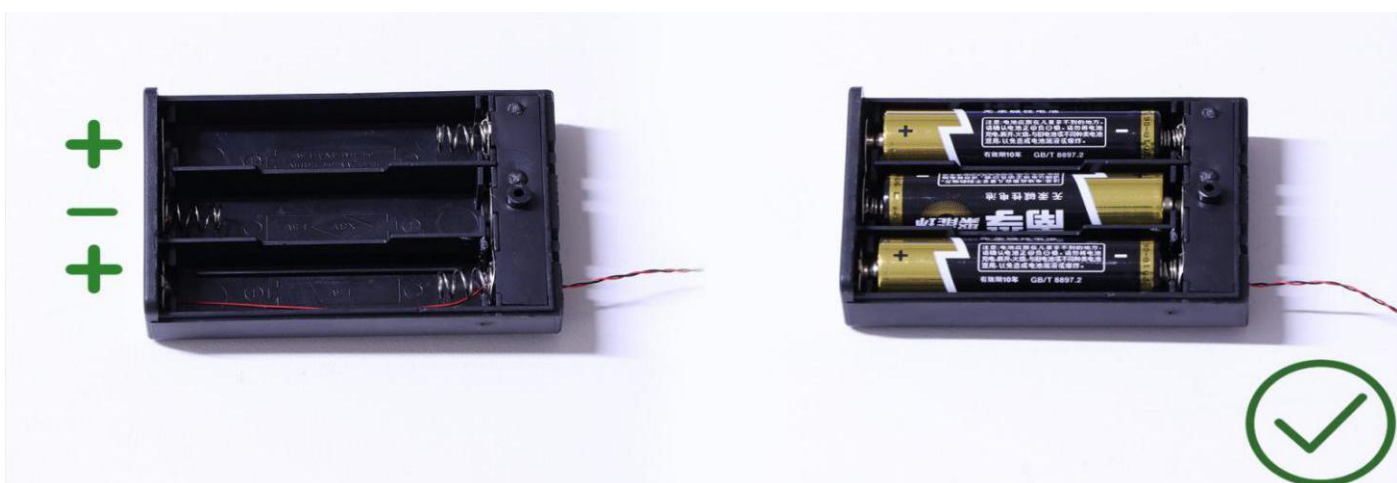


## Connecting cable connectors to Strip Lights

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.





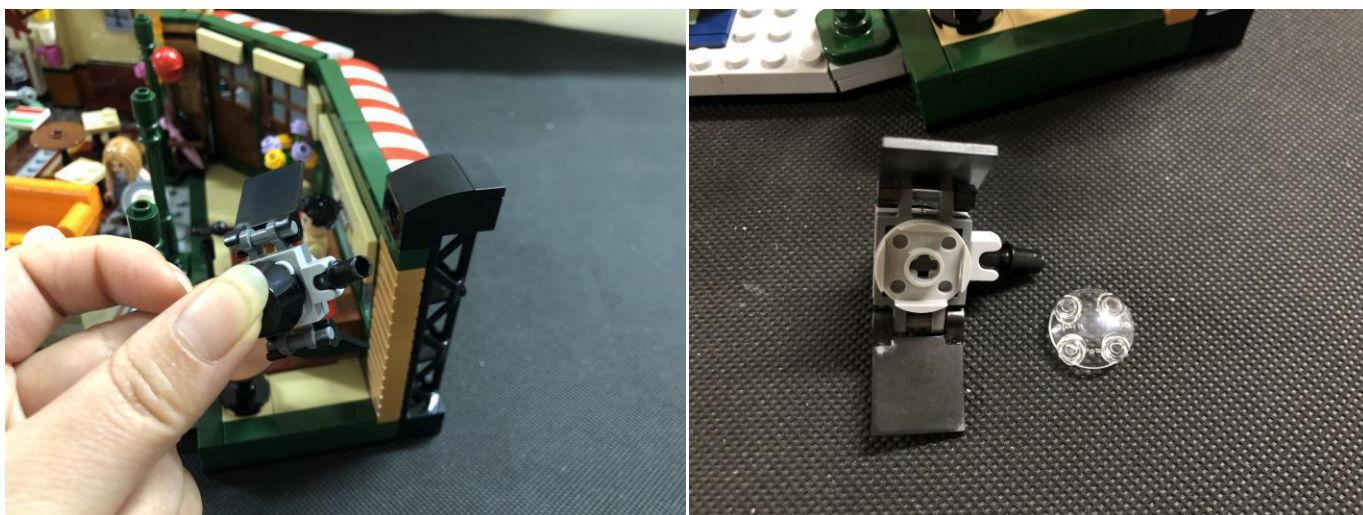
## Instructions for installing this kit:

OK, Let' s Begin!

Start from installing the spotlights at the right side of the stage.



Remove the spotlight, disconnect the 2x2 trans round piece

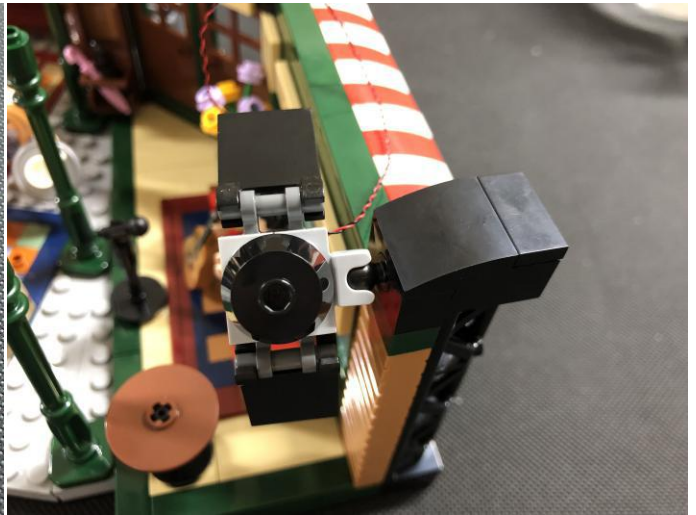
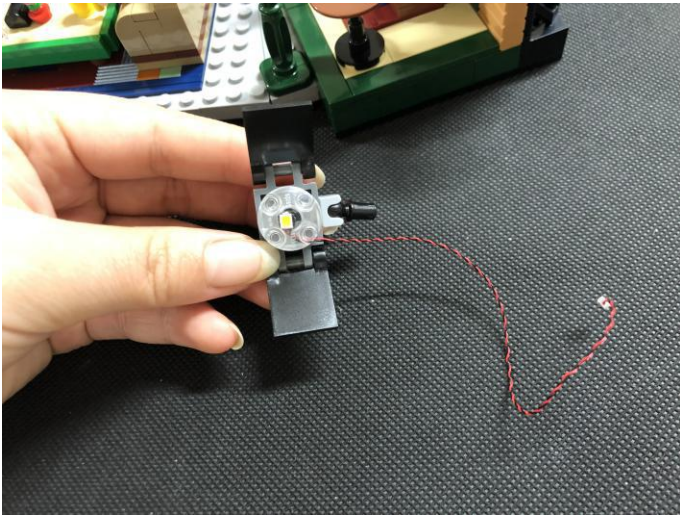


Take a 15cm light, with lighting part facing up, connect it to the following piece as per below:



Reconnect the trans piece to secure the light, reconnect the spotlight

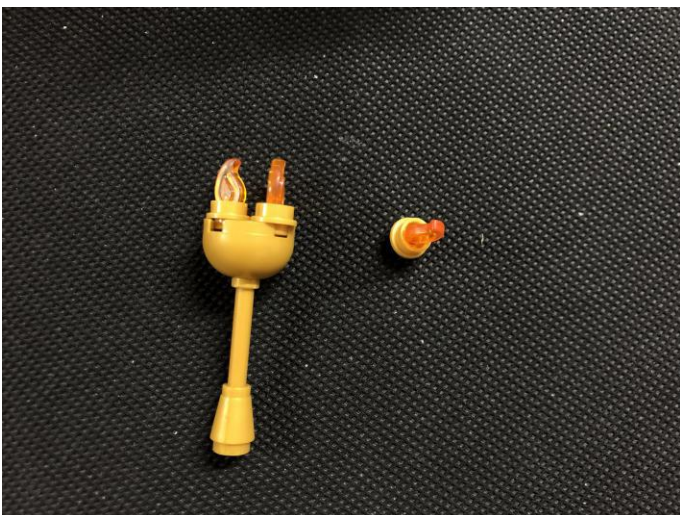




Continue to install light for the lamp beside the sofa



Remove one of the flames



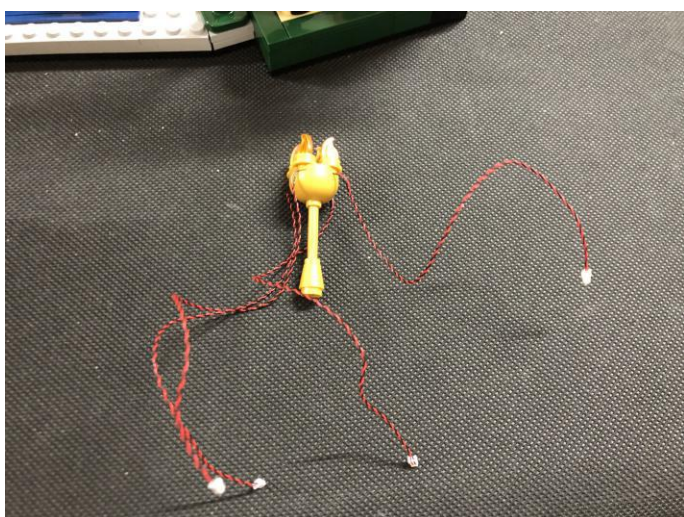
Take a warm white 15cm dot light, with lighting part facing up, connect it to the following place, reconnect the flame to secure the light





Take another 3 warm white 15cm dot light, repeat the steps above to install lights for the last 3 flames

Group the 4 cables together, as per below

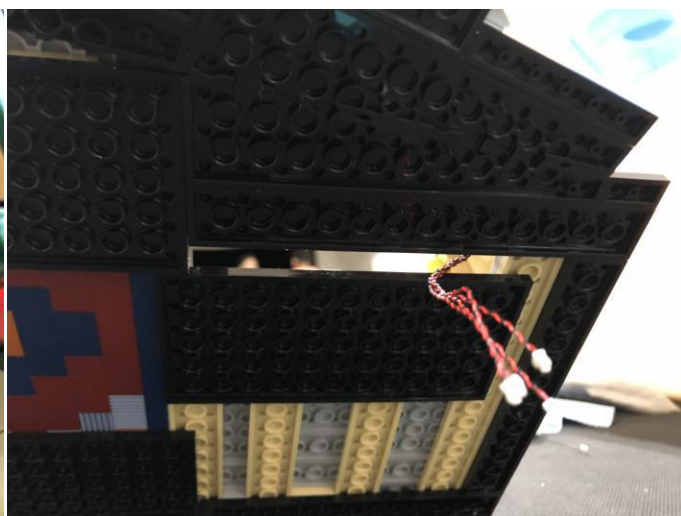


Reconnect the lamp. Remove the following section





Thread the cable through the space to the bottom

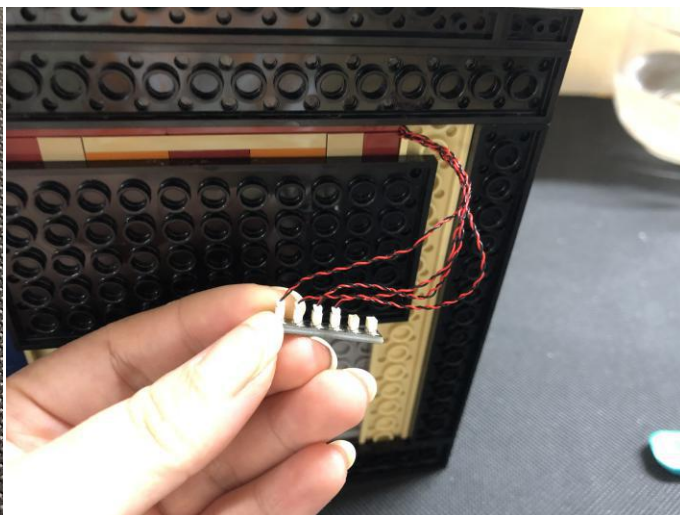
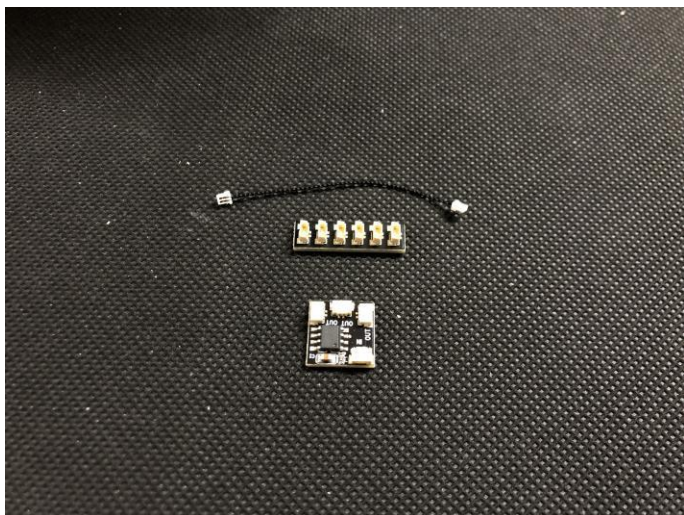


Reconnect the section we removed before

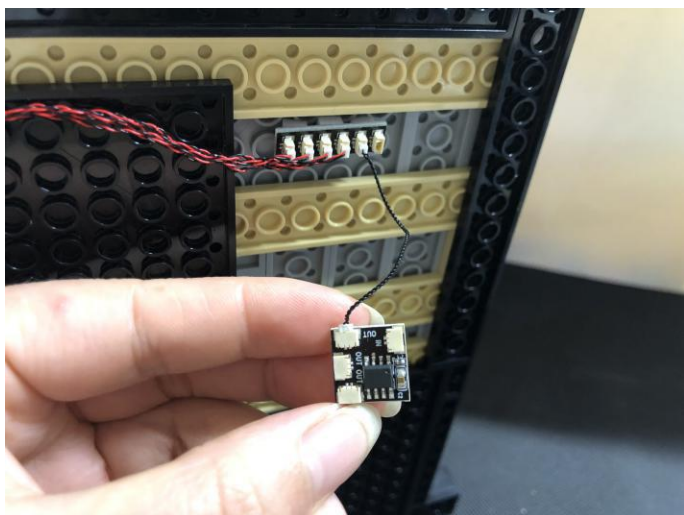


Take a 6-port expansion board (expansion board#1), a 5cm connecting cable, and a Flicker Effects Board. Connect the 4 cables from the lamp to the 6-port expansion board (expansion board #1)

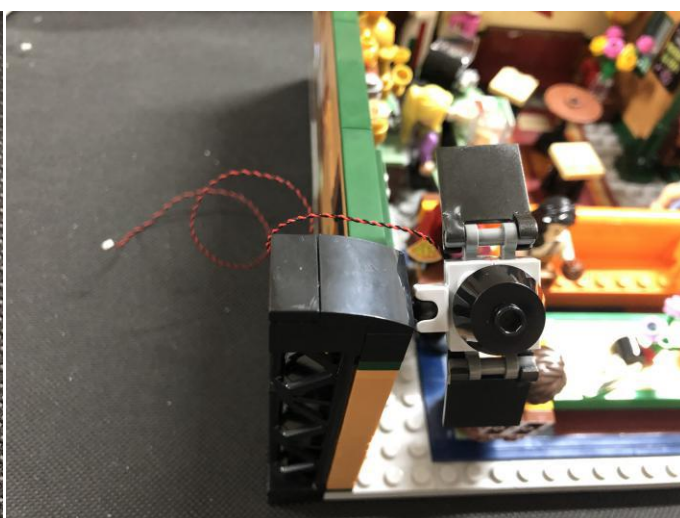




Connect the expansion board and the Flicker Effects Board together with the 5cm connecting cable. (note: do not connect the cable to the power port on the Flicker Effects Board). Stick the expansion board and the flicker effect board to the bottom with adhesive squares.



Take a 30cm light, repeat the steps we did for the spotlight at the right side to install the one at the left side

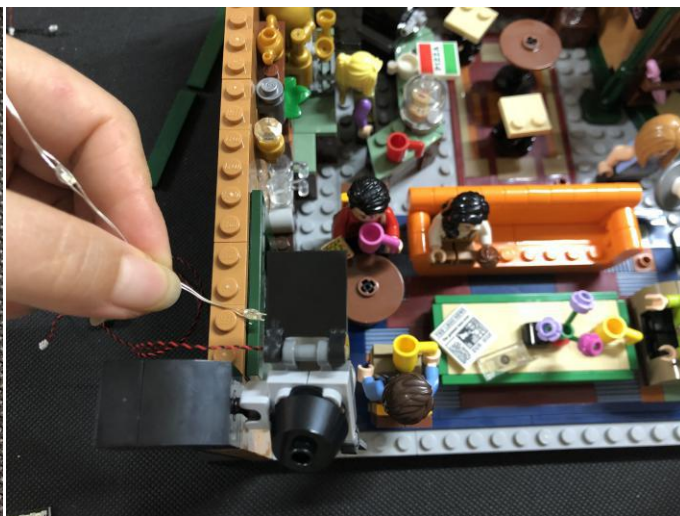
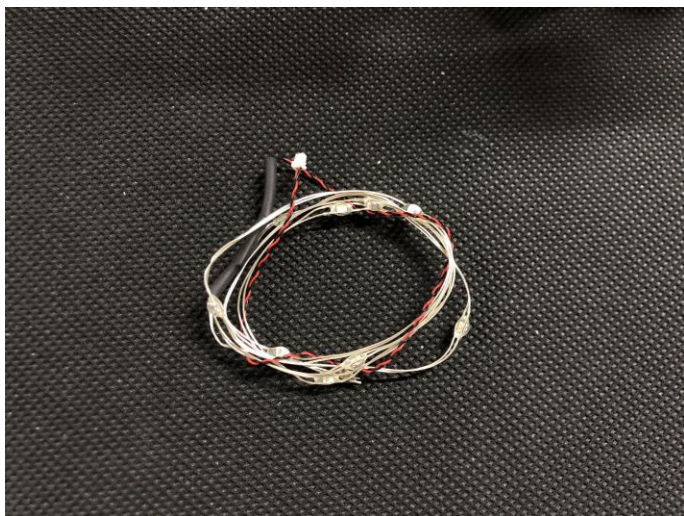


Remove the following beams as per below

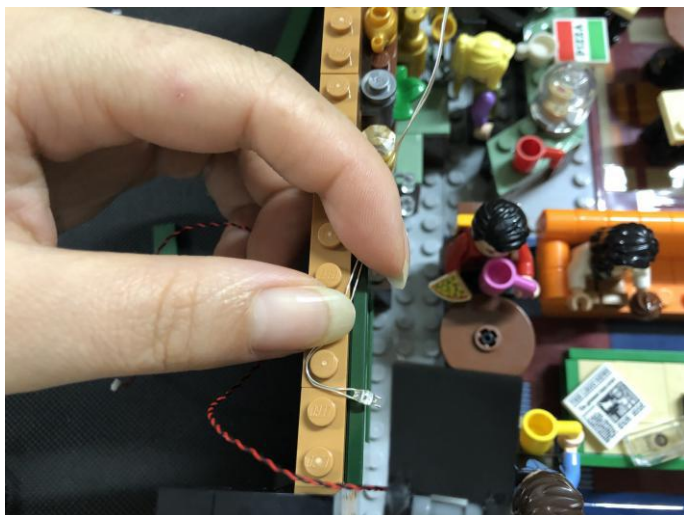




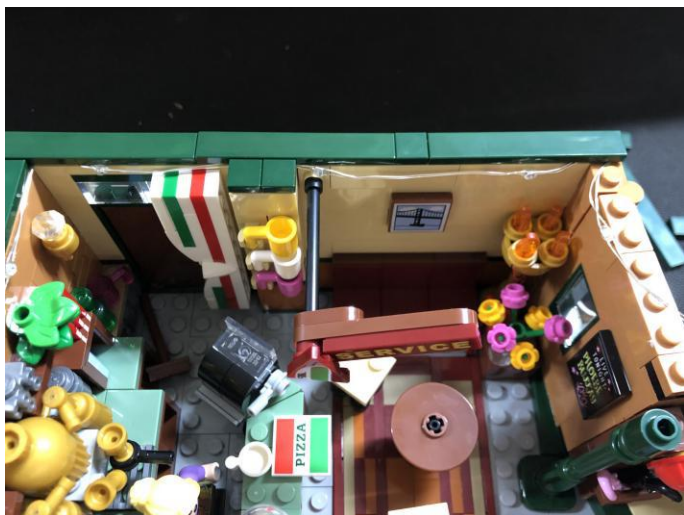
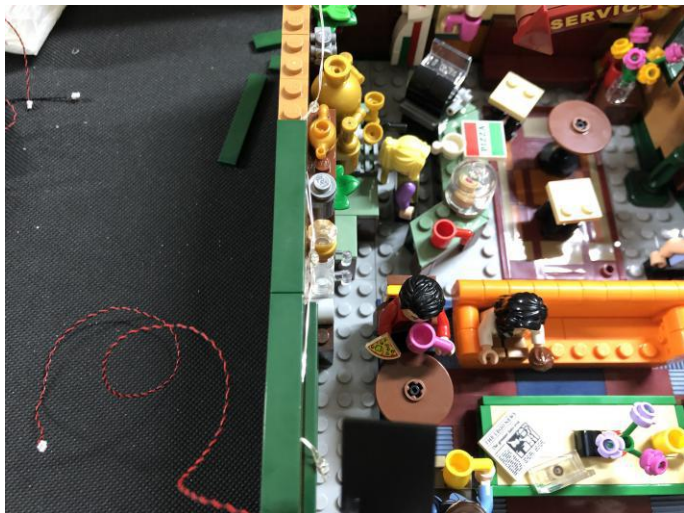
Take the Multi Colour Light String, connect it from the tail as per below:



Place the Multi Colour Light String on the beams as per below , and reconnect the beams











Remove the base underneath the sofa and the vase, thread the Multi Colour Light String through the space and pull it out from the bottom



Reconnect the base plates (note: do not pull the cable too tight)





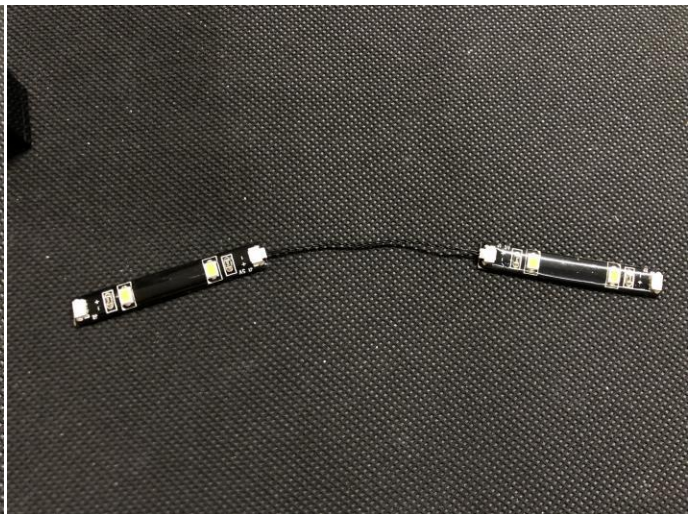
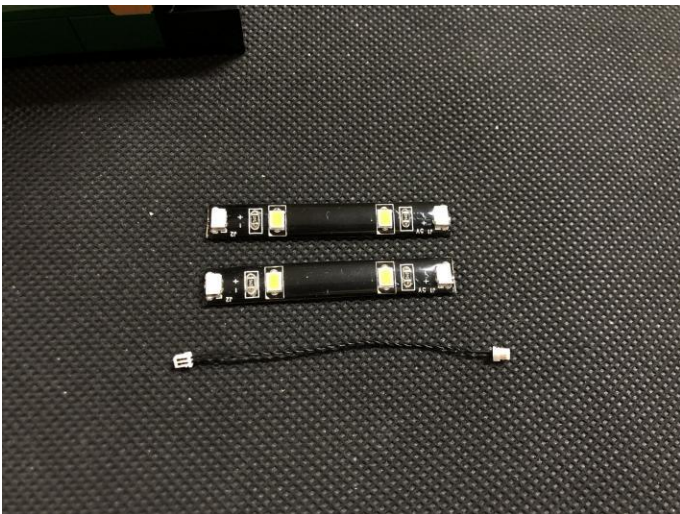
Take a 6-port expansion board (expansion board#2), connect the cable from the Multi Colour Light String to it, tuck excess cables. Stick the expansion board to the following place with the adhesive squares



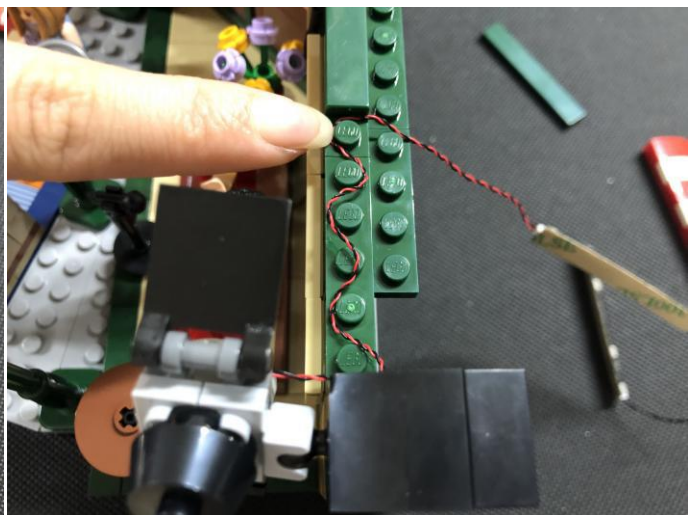
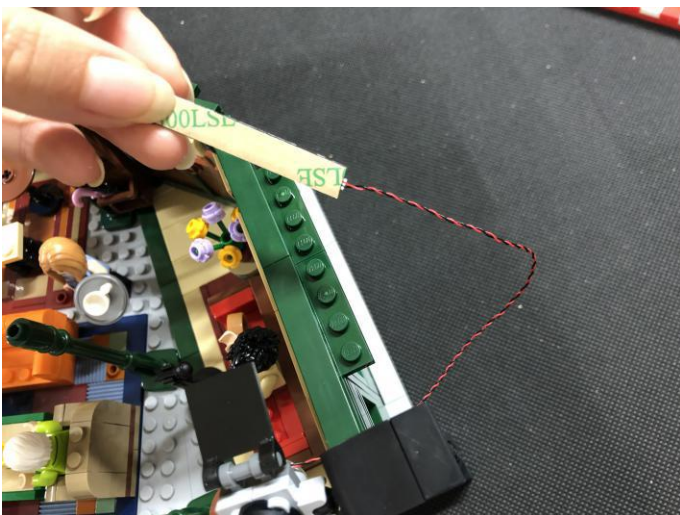




Take 2 warm white strip lights, a 5cm connecting cable, assemble them together as per below

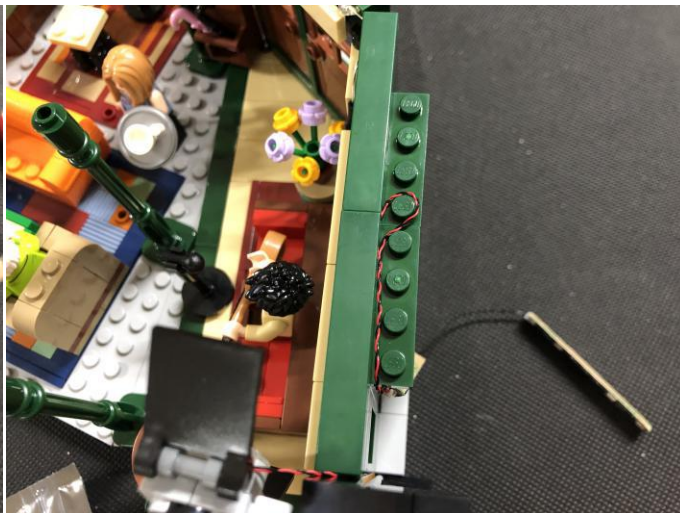
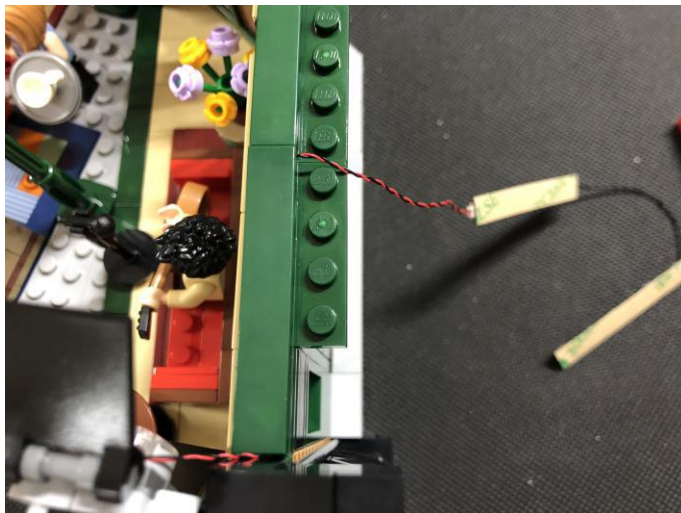


Connect the cable from the spotlight to the strip light, and place the cable as per below



Reconnect the 1x6 plate to secure the cable, place the excess cable as per below, reconnect the eaves to secure the cable as per below





Stick the strip light to the eaves above the window as per below



Stick another strip light underneath the roof of the door





Take a 30cm connecting cable, connect it to the strip light above the door



Remove the following pieces to allow the cable thread through the flowing space, then, reconnect the pieces to secure the cable



Pull the cable to the bottom, and connect it to the expansion board #2

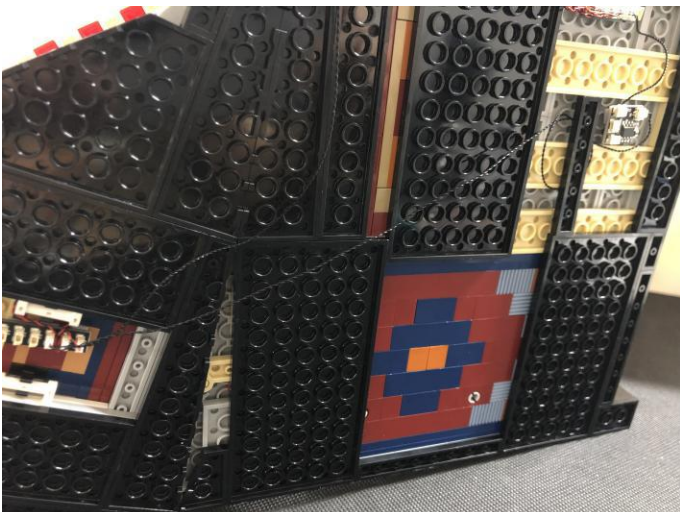




Take a 30cm connecting cable, connect it to the expansion board#2

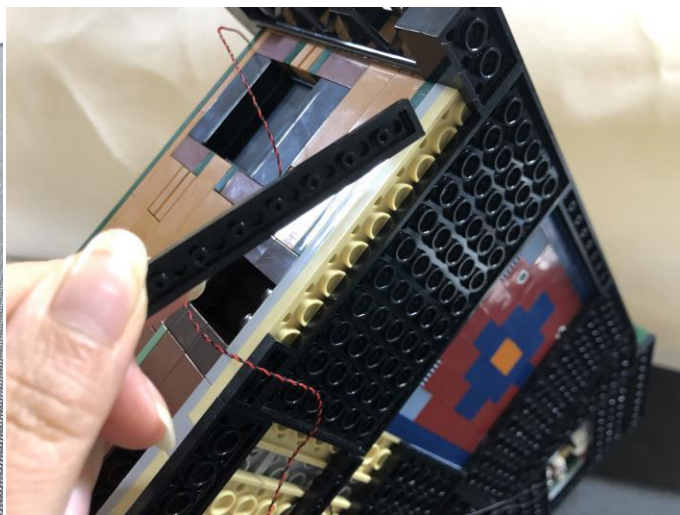
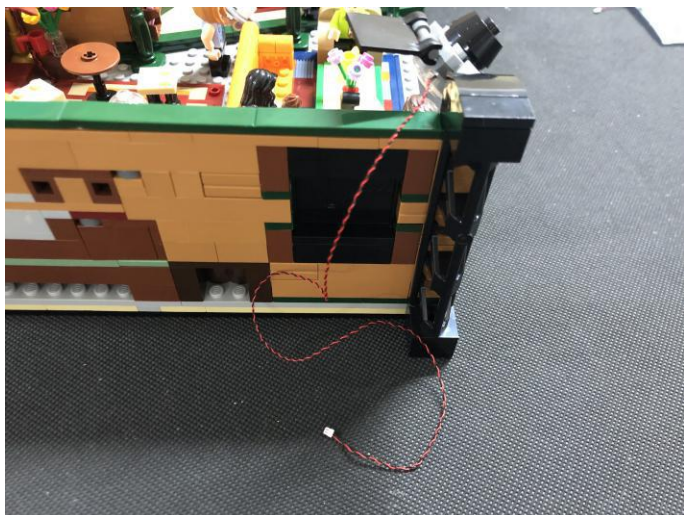


Connect the other end of the cable to the output port on the flicker effect board, secure the cable with a 1x6 plate (the colour depends on the package)

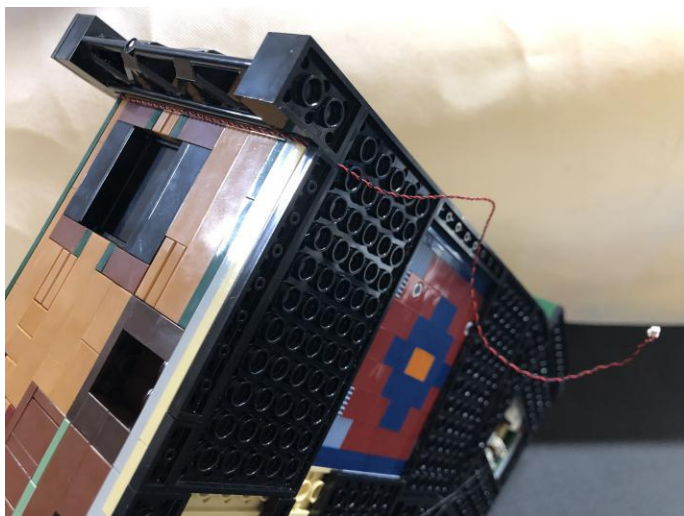


Connect the cable from the other spotlight to the expansion board. Turn the house to its side, remove the following piece





Pull the cable to the bottom, reconnect the piece we removed before to secure the cable

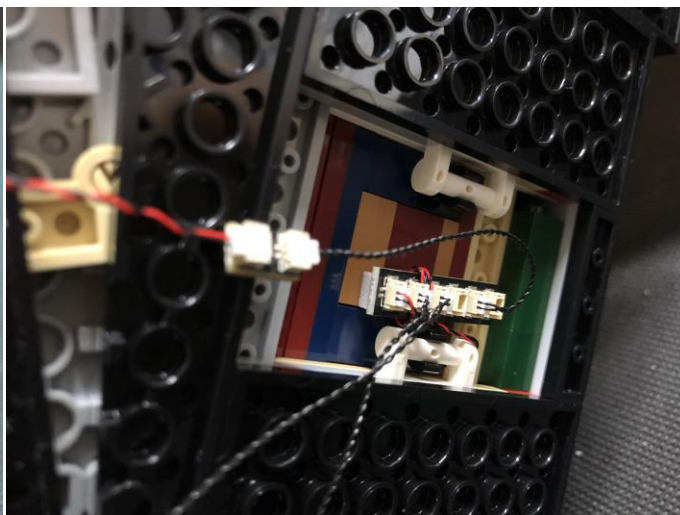
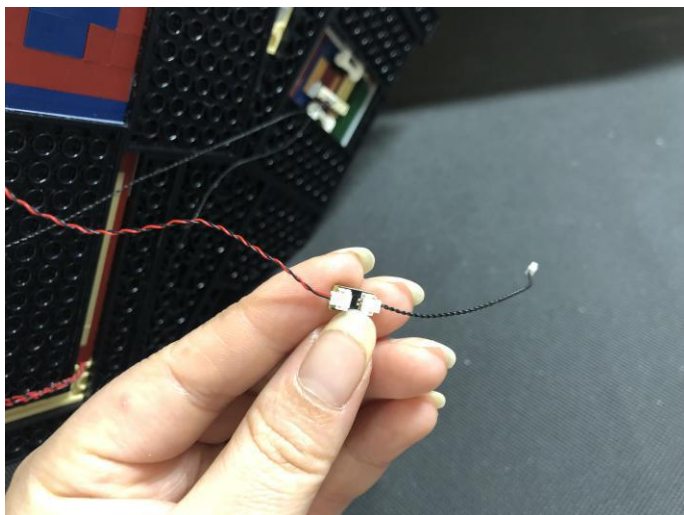


Take a 5cm connecting cable, a 2-port expansion board, connect the cable to the expansion board as per below

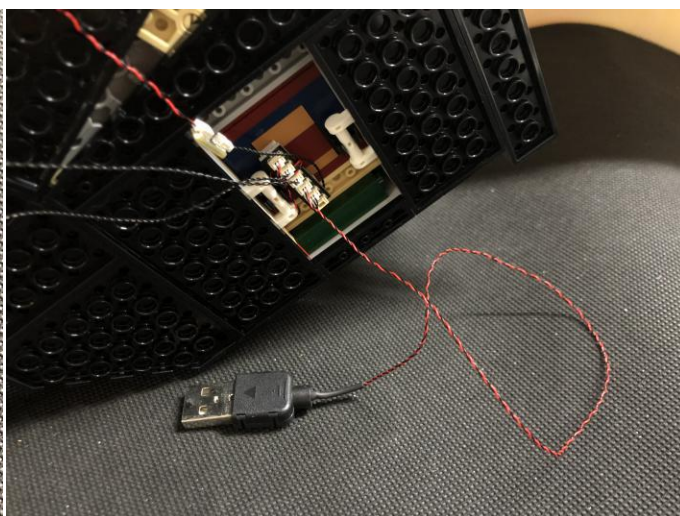
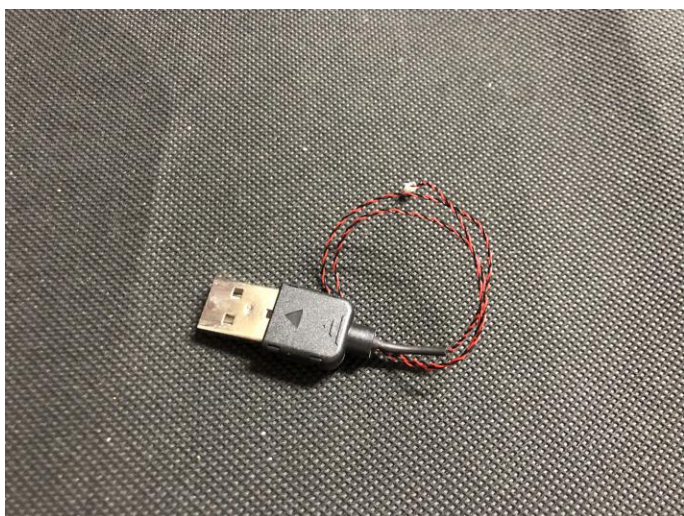


Connect the cable from the spotlight to the 2-port expansion board as per below, and connect the other end of the 5cm connecting cable to the expansion board#2





Take the USB cable, connect it to the expansion board#2, as per below



This completes installation of this LED Lighting Kit. ENJOY!

