

21319 Friends Central Perk P14401

- P14401 is the unique code of lighting set, we use this to accurately identify the product you purchased and the corresponding manuals and services you need to obtain. Please make sure your product code is the same as the label on the back of the box shown “21319 P14401”.
- Installation requires a lot of patience and great observation that your LEGO bricks will come alive when you get this finished. The bricks with lighting as below, so make sure you're ready and let's get started.



Strategies for the Installation

This instruction divides three sections to complete the installation of the lighting set.

Section A: Check the type and quantity of components.

The quantity and type of components of each products are different and it needs to be carefully checked to make sure there do have enough material. The type of components is indicated by the label on the bag.

Section B: Test that each components is working properly.

Each components is made individually so it is necessary to test that each components is working properly to avoid the situation that the lighting does not work .

Section C: laying out components following the instruction.

Our material is very small but not fragile, just be reminded that don't to pull the wires too hard. For different people, there may be some installation steps that you can't understand. Please look at the previous and later installation step

Section A: Check the type and quantity of components.

There are 10 bags in this set. The name and quantities of specific components are as shown , please check carefully.

Label	Content	Quantity
Bit Lights-15CM-Warm White	Bit Lights-15CM-Warm White	4
Headlights-30CM-Warm White	Headlights-30CM-Warm White	1
Headlights-15CM-Warm White	Headlights-15CM-Warm White	1
LED Strip Lights-Warm White	LED Strip Lights-Warm White	2
Connecting Cables-5CM	Connecting Cables-5CM	3
Connecting Cables-30CM	Connecting Cables-30CM	1
Expansion Board	6 Socket Expansion Board	2
Flicker-Effects Board	Flicker-Effects Board	1
USB Power Cable	USB Power Cable-30CM	1
Parts package		

Please contact us immediately if there have any missing components.

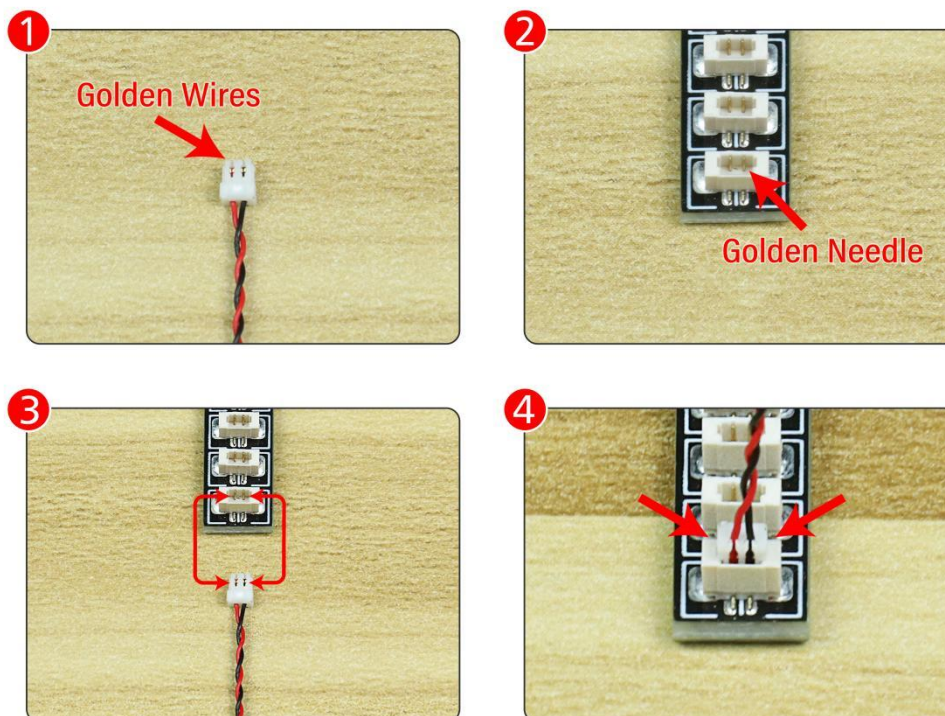
Section B: Test that each components is working properly.

We need a structure to test all lights, so take out the bag with label “USB Power Cord”and “Expansion Boards”as follows.



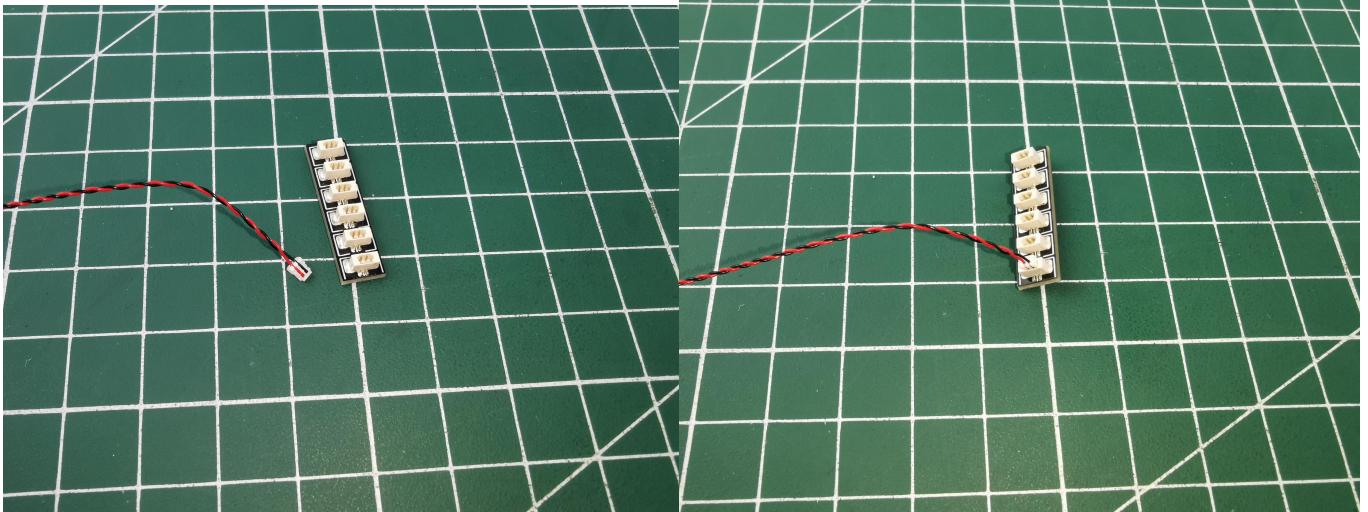
It is worth reminding that our products are all customized. They have a unique way of connecting. The white plug on wire and the socket of the expansion board need to be connected together to transmit power.

Note that on one side of the white plug you can see two very small golden wires that should be connected to the two golden needles in socket of the expansion board. shown as blow.



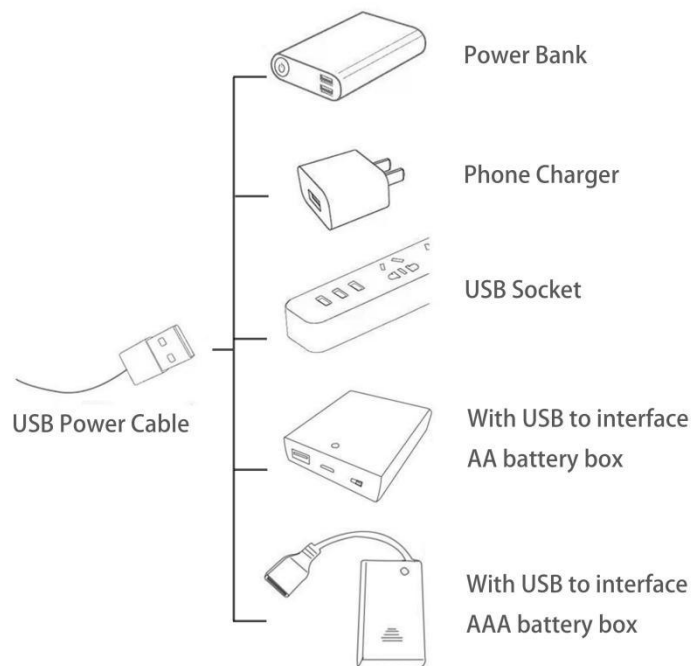
All our connections between plug and socket are all the same as shown above. So for any such structure with plug and socket, please pay attention to the golden wire of the plug and the golden needle of the socket, they must be touched together.

The connection method between the USB Power Cord and Expansion Boards is as follows:



The USB Power Cord can be powered by phone chargers, power banks, etc.

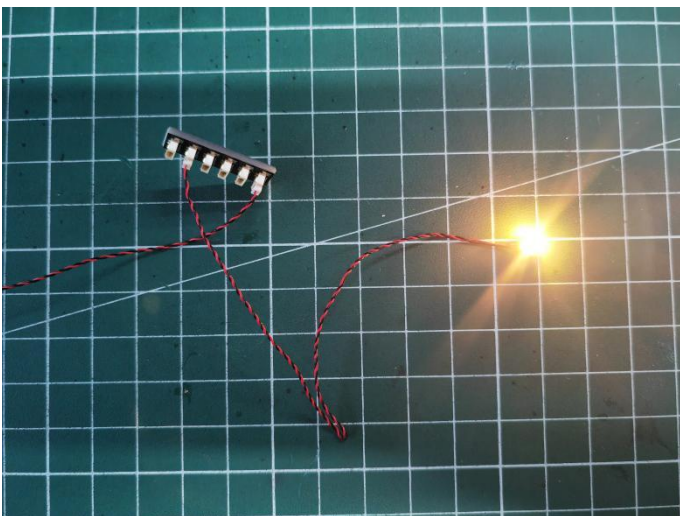
USB connectors to connect devices



This instruction will use the power bank as power supply . The test structure is shown as follow. All lamp in this set will be tested by this structure.



when we test "Bit Lights-15CM-Warm White" particles,Take out the bag labelled "Bit Lights-15CM-Warm White".Take out one of the light and connect it to the socket. Turn on the power bank, the light will turn on normally as shown below.



Test each lamp according to this method. It should be noted that after the test, the lamp must be returned to the corresponding bag to avoid confusion of types.



The components needs to be tested in this set is 3*Bit Lights-15CM-Warm White, 1*Headlights-30CM-Warm White, 1*Headlights-15CM-Warm White, 2*LED Strip Lights-Warm White.

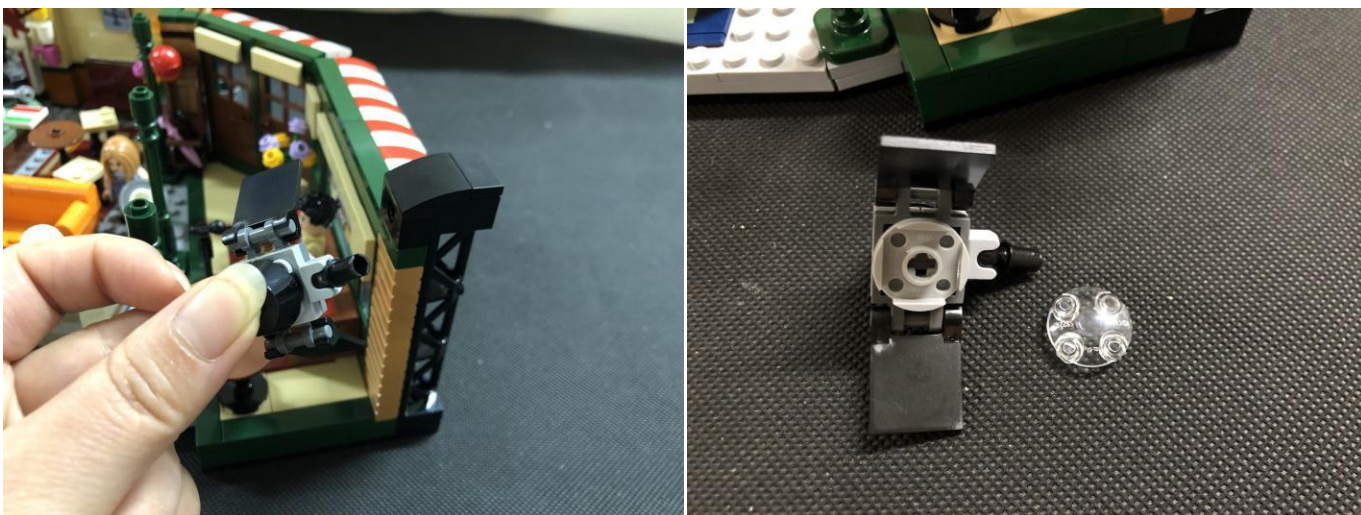
Please contact us immediately if any components don't work.

Section C: laying out components following the instruction.

1. Start from installing the spotlights for the stage at right.



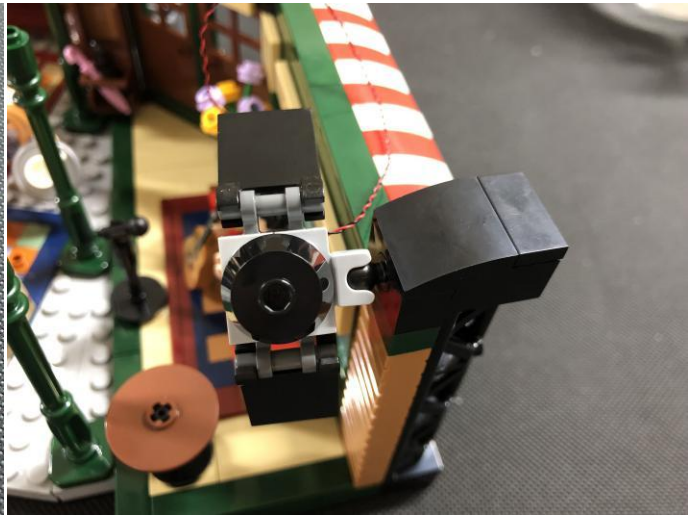
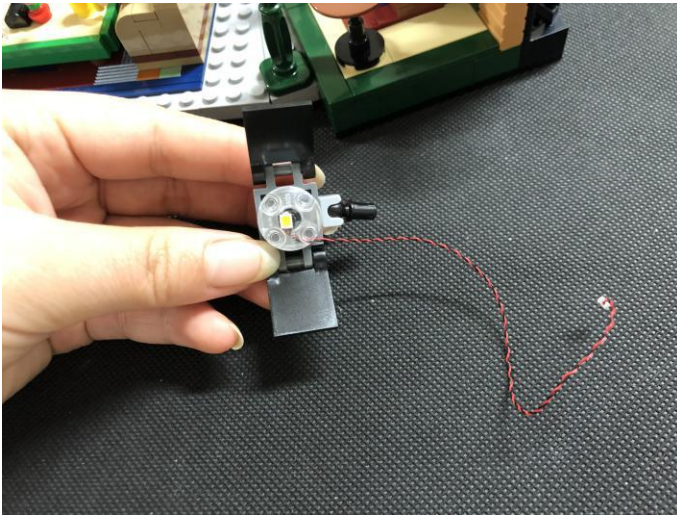
2. Remove the spotlight, disconnect the 2x2 trans round piece.



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



4.Reconnect the trans piece to secure the light, reconnect the spotlight:



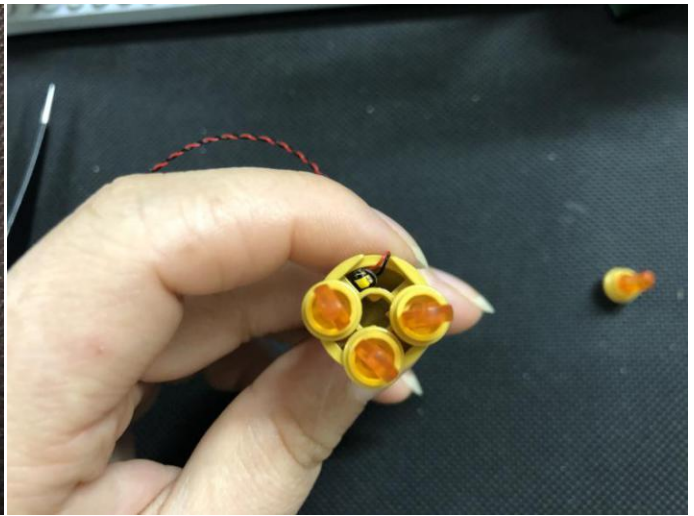
5.Continue to install light for the lamp beside the sofa.



6.Remove one of the flames.



7. 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.



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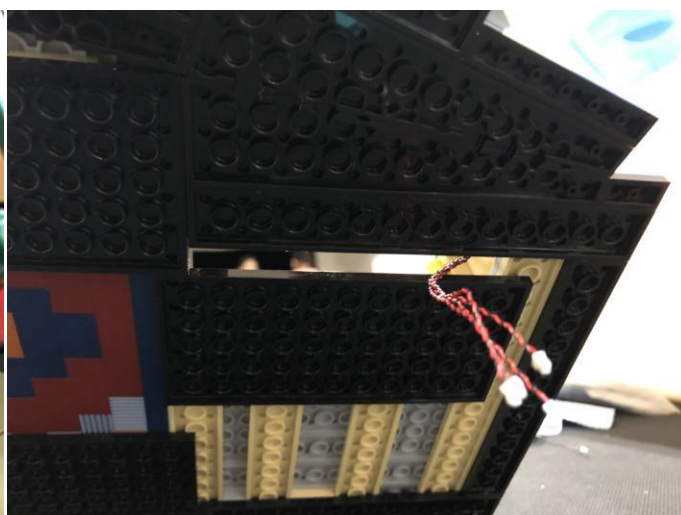
9. Take another 3 warm white 15cm dot lights, repeat the steps above to install lights for the last 3 flames. Group the 4 cables together, as per below.



10. Reconnect the lamp. Remove the following section.



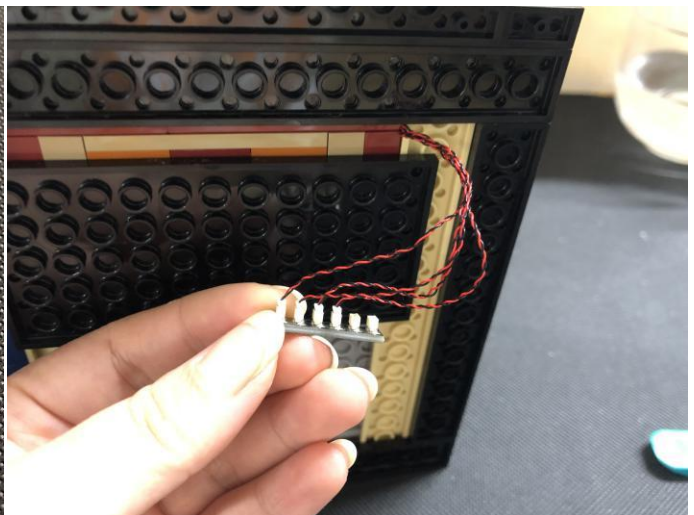
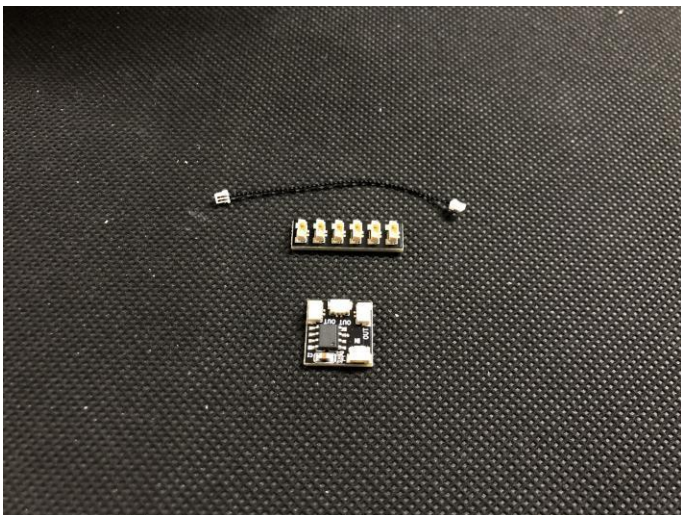
11. Thread the cable through the space to the bottom.



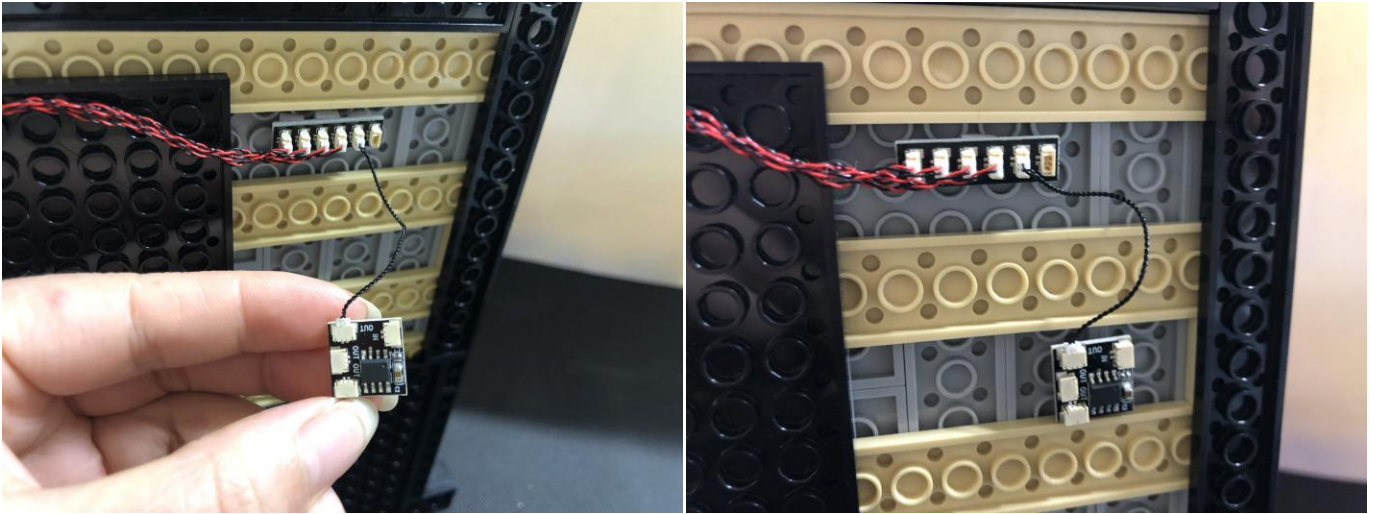
12.Reconnect the section we removed before.



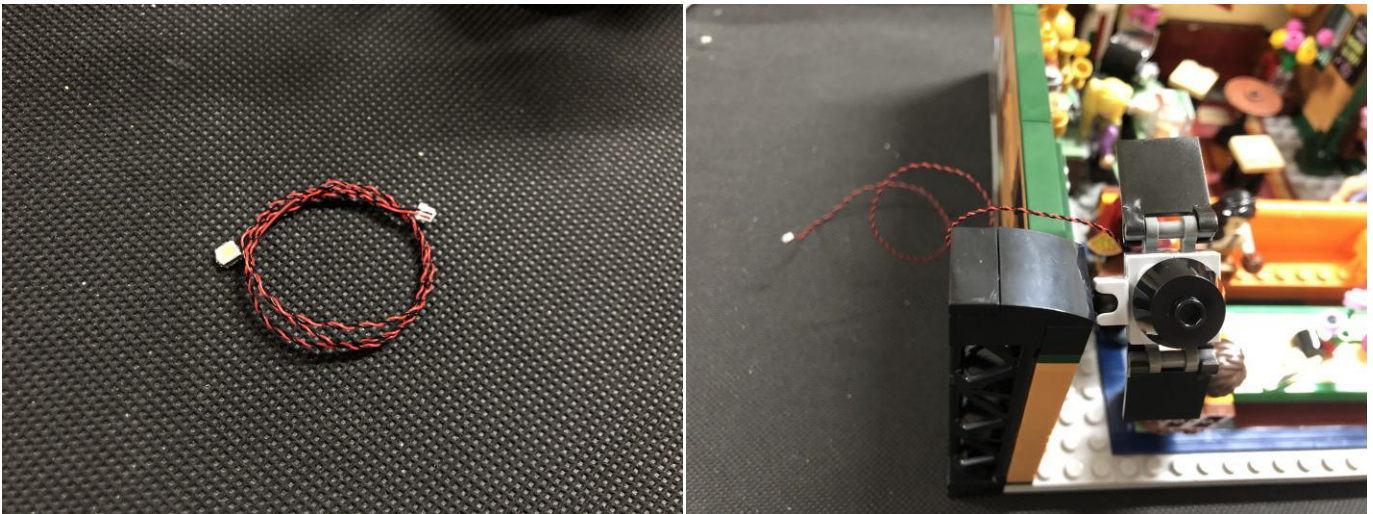
13.Take a 6-port expansion board (expansion board#1), a 5cm connecting cable, and a Flicker Effects Board. Connect the 4 cables from the lamp to the 6-port expansion board (expansion board #1).



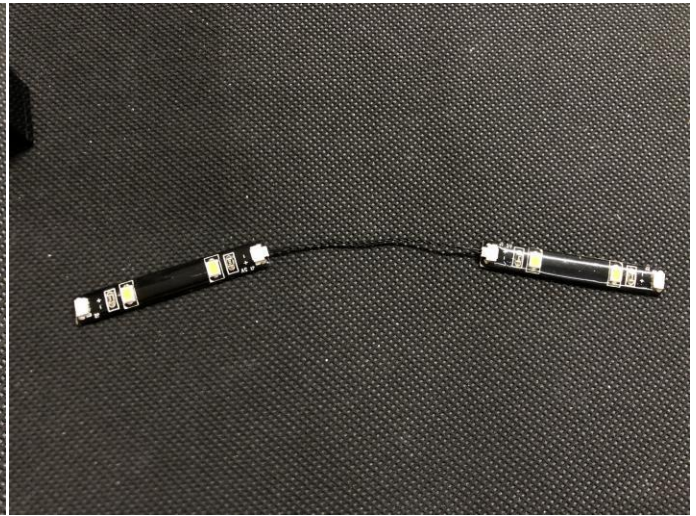
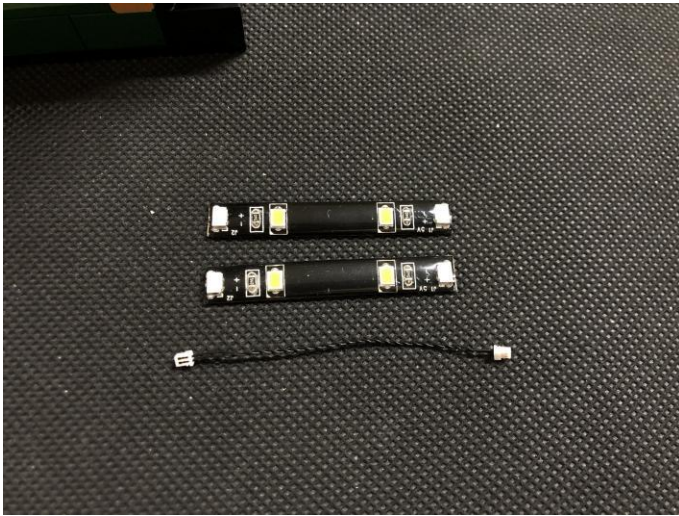
14. Connect the expansion board and the Flicker Effects Board together with the 5cm connecting cable. (note: do not connect the cable to the power port on the Flicker Effects Board)



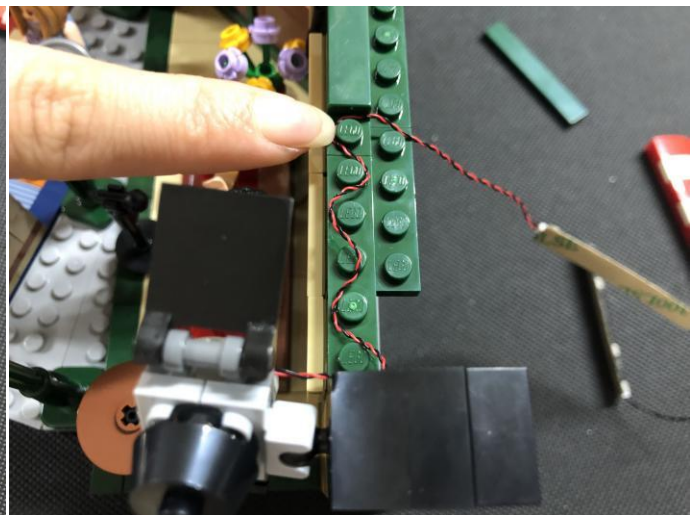
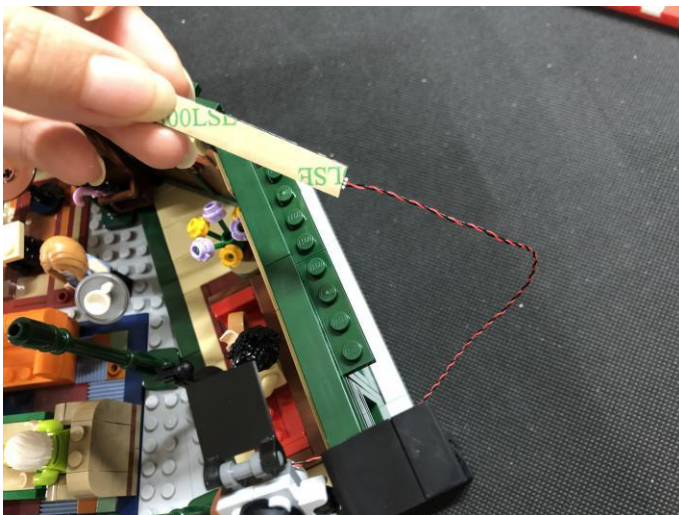
15. Take a 30cm light, repeat the steps we did for the spotlight at the right side to install the one at the left side.



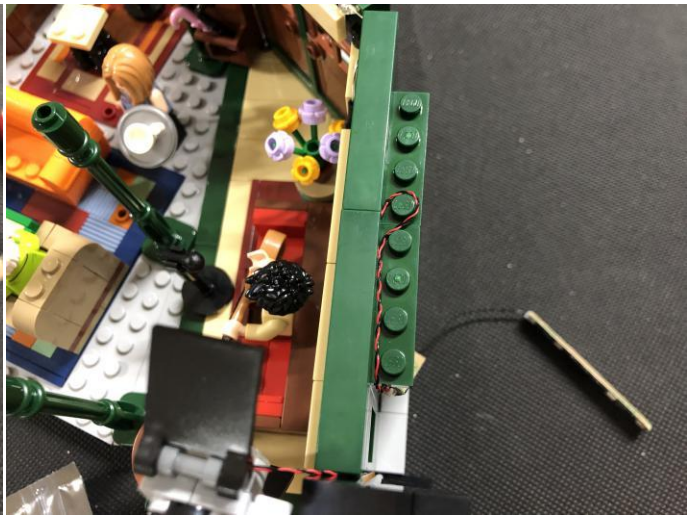
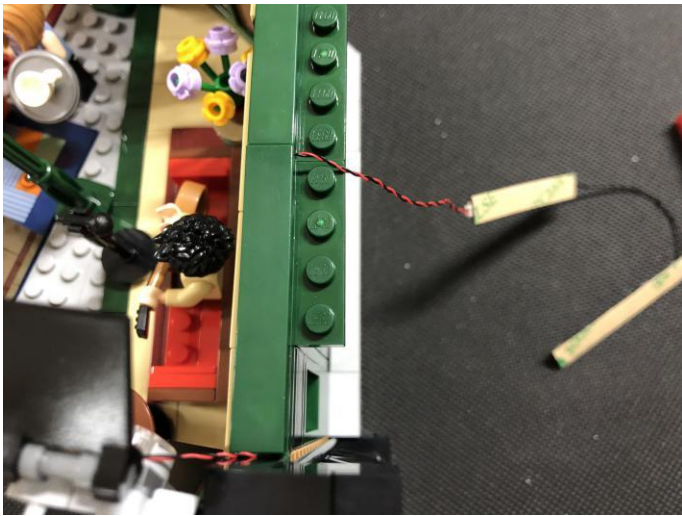
16. Take 2 warm white strip lights, a 5cm connecting cable, assemble them together as per below.



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



18.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.



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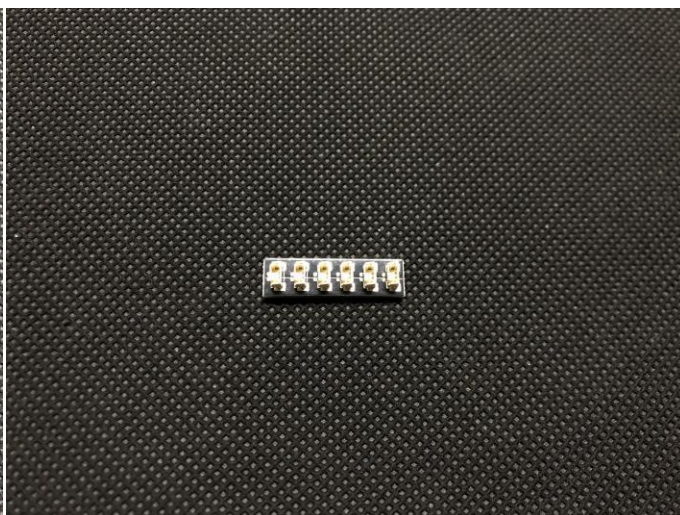
20.Stick the strip light to the eaves above the window as per below.



21. Stick another strip light underneath the roof of the door.



22. Take a 30cm connecting cable, a 6-port expansion board (expansion board#2), connect the connecting cable to the strip light above the door.



23



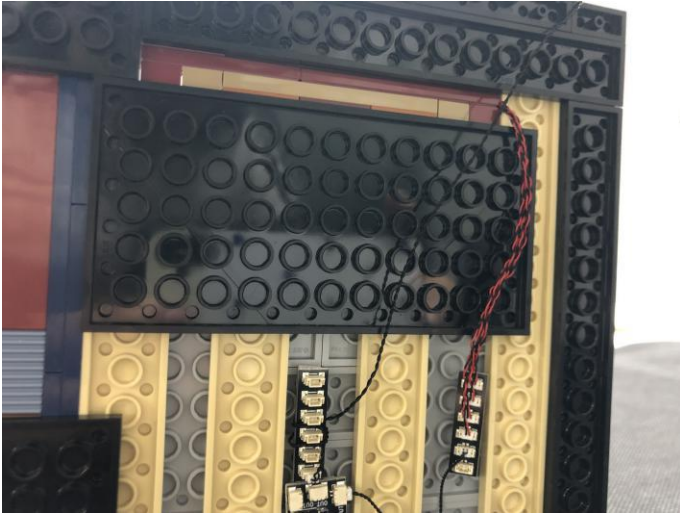
24. Remove the following pieces to allow the cable thread through the flowing space, then, reconnect the pieces to secure the cable.



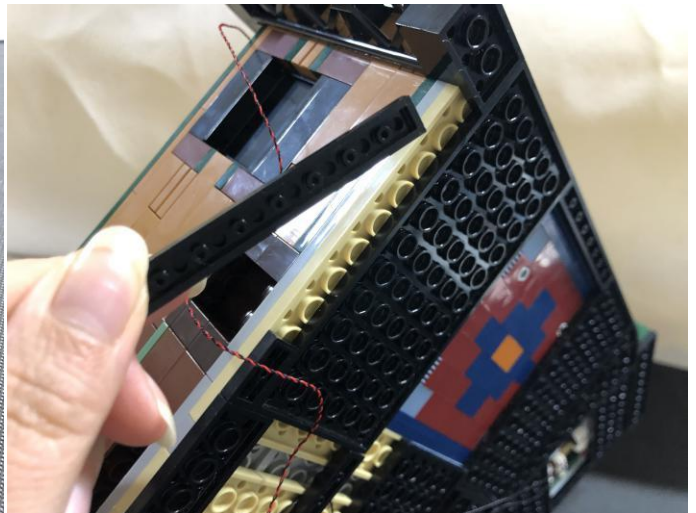
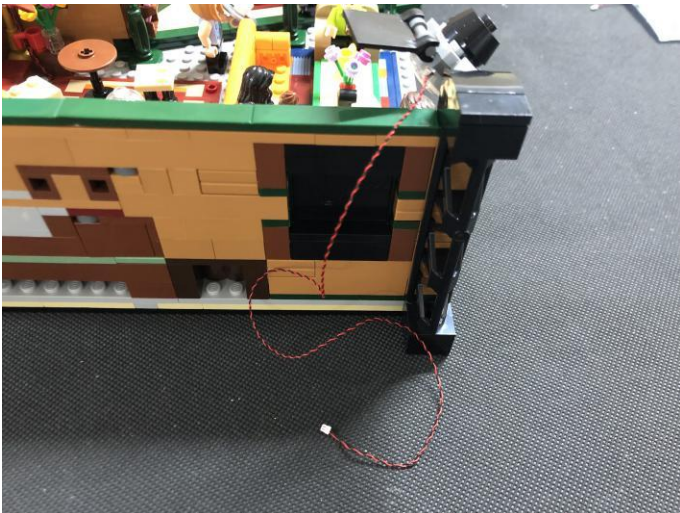
25. Pull the cable to the bottom, and connect it to the expansion board #2.



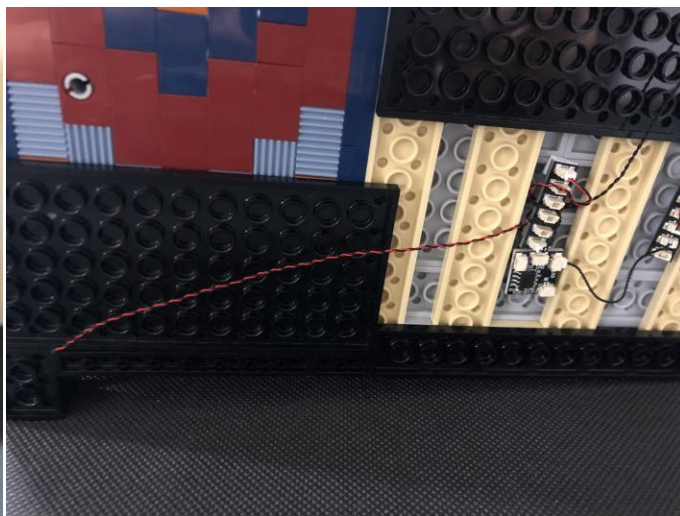
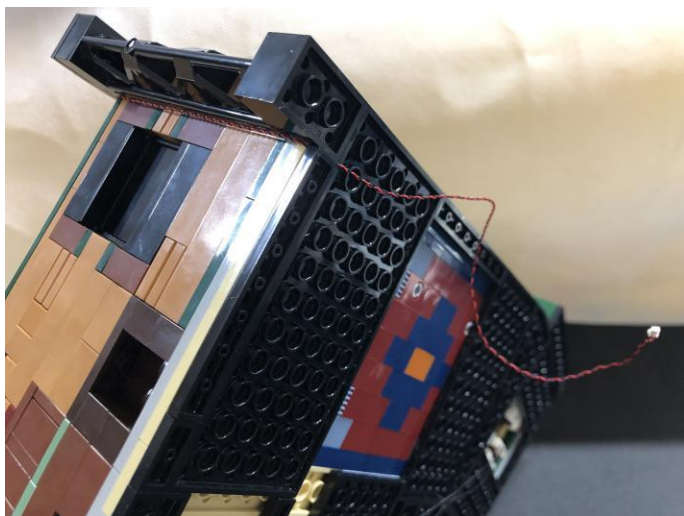
26. Stick the expansion board next to the Flicker Effects Board with the adhesive squares.



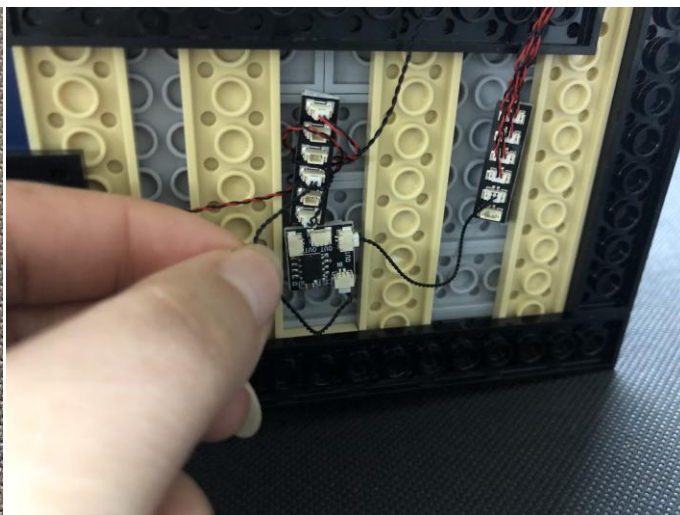
27. Connect the cable from the other spotlight to the expansion board. Turn the house to its side, remove the following piece.



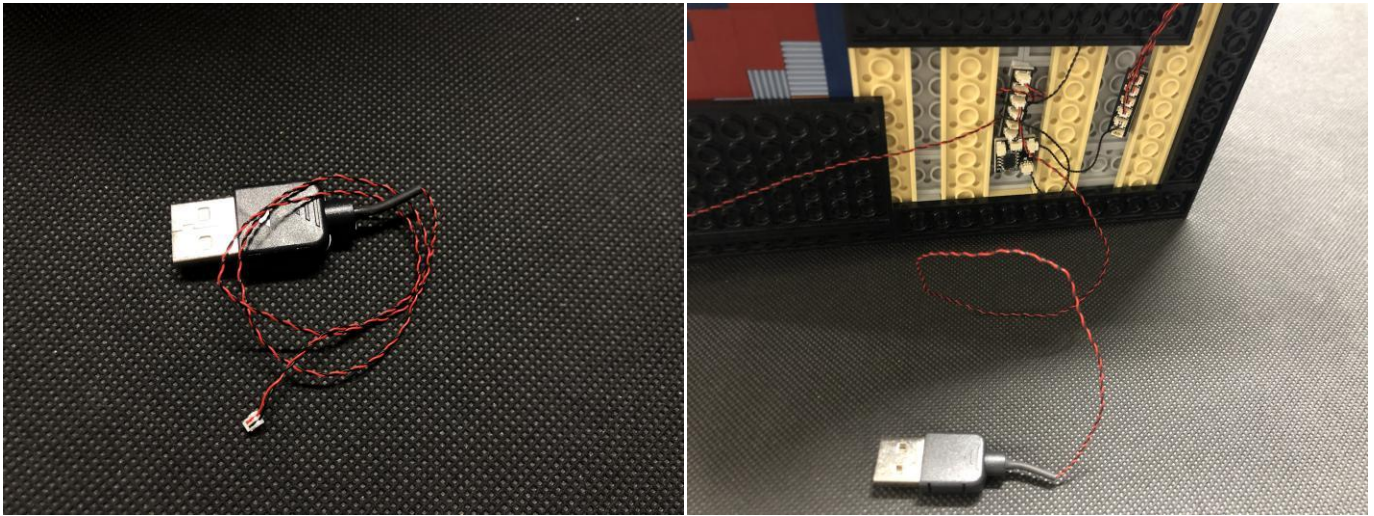
28. Pull the cable to the bottom, reconnect the piece we removed before to secure the cable, then, connect the cable to the expansion board#2.



29. Take a 5cm connecting cable, assemble the expansion board#2 and the Flicker Effects Board together with the 5cm connecting cable.



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



Good job, you've done all the installation steps, power it up and enjoy your work.

