21319 Friends Central Perk P14403

- **P14403 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 P14403".**

- **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 12 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
Multi-Colour Light String	Multi-Colour Light String	1
Connecting Cables-5CM	Connecting Cables-5CM	3
Connecting Cables-30CM	Connecting Cables-30CM	2
Expansion Board	2 Socket Expansion Board	1
	6 Socket Expansion Board	1
Flicker-Effects Board	Flicker-Effects Board	1
USB Power Cable	USB Power Cable-30CM	1
Remote Control Board	Remote Control Board	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.
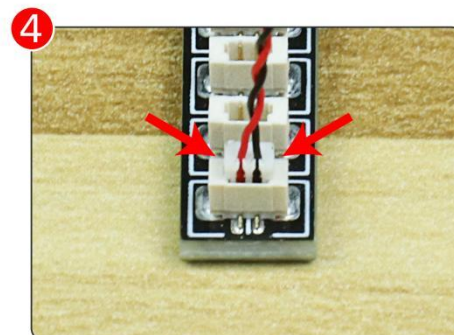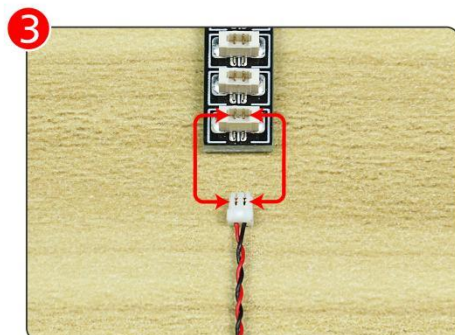
All our connections between plug and socket are all the same as shown above. So for any such structure with plug and socket, please pay attention to the golden wire of the plug and the golden needle of the socket, they must be touched together.

The connection method between the USB Power Cord and Expansion Boards is as follows:
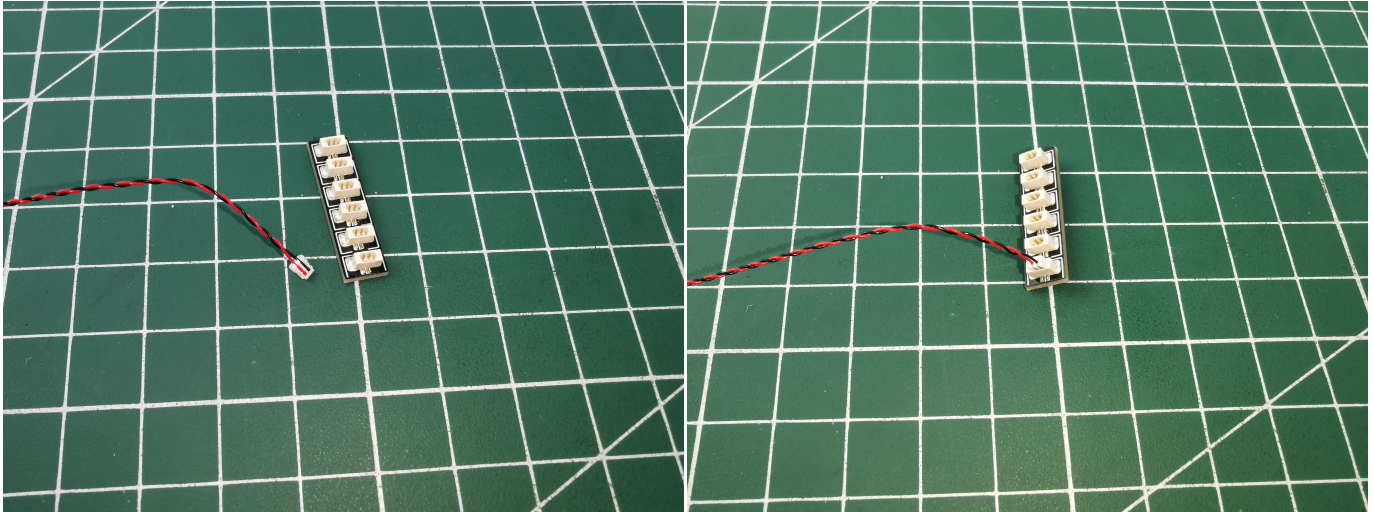
**The USB Power Cord can be powered by phone chargers, power banks,etc.**

USB connectors to connect devices

USB Power Cable

Power Bank

Phone Charger

USB Socket

With USB to interface
AA battery box

With USB to interface
AAA battery box
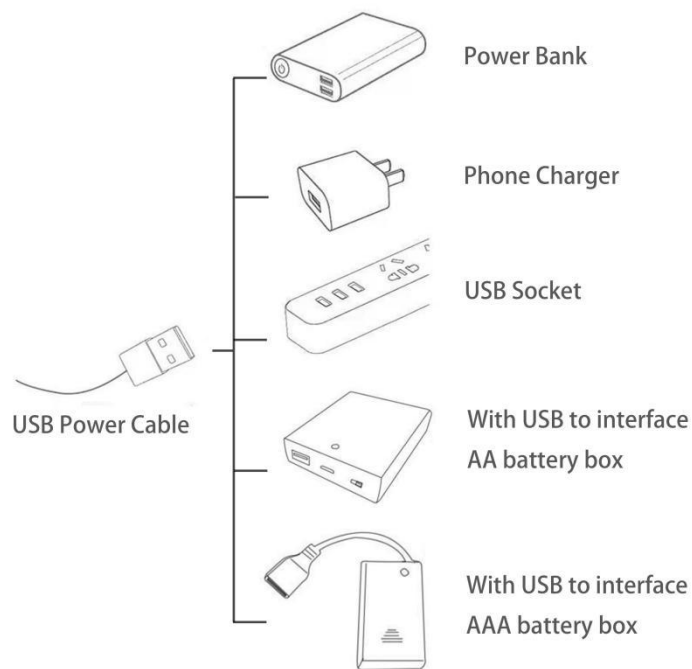
This instruction will use the power bank as power supply . The test structure is shown as follow. All lamp in this set will be tested by this structure.

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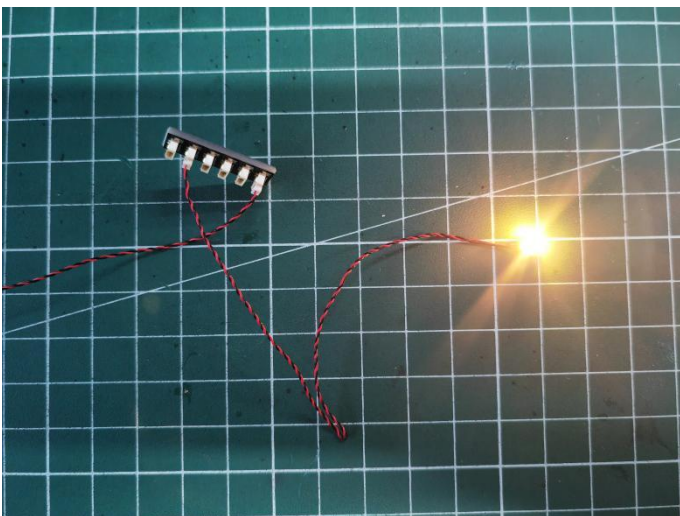
Test each lamp according to this method. It should be noted that after the test, the lamp must be returned to the corresponding bag to avoid confusion of types.

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,1*Multi-Colour Light String.
Please contact us immediately if any components don't work.

Section C： laying out components following the instruction.

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2.Remove the spotlight, disconnect the 2x2 trans round piece.
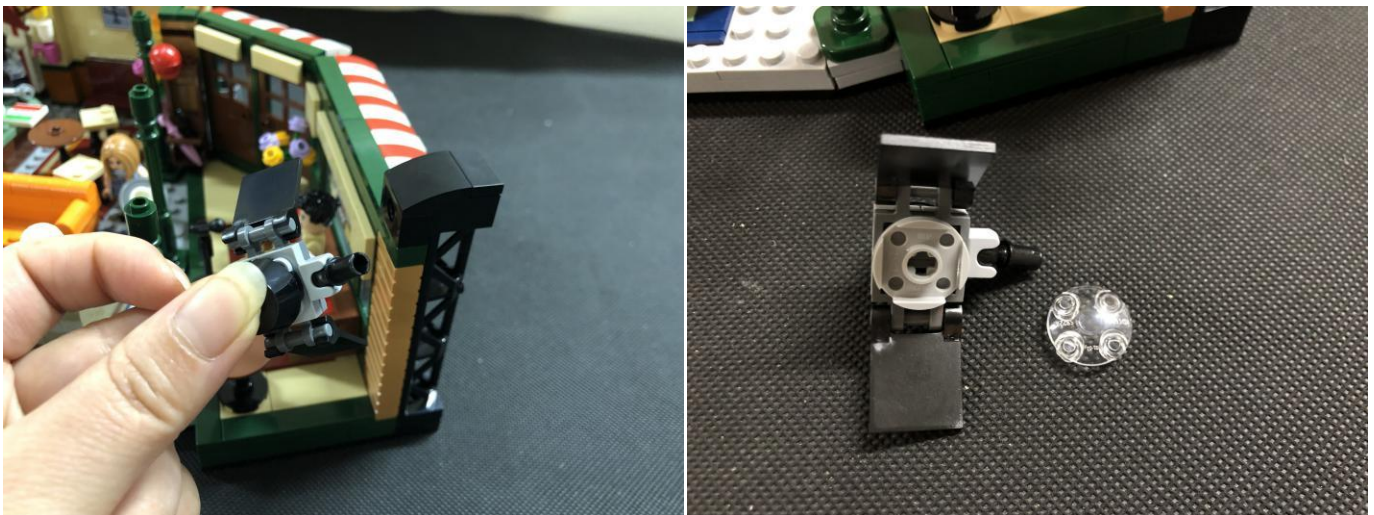
3.Take a 15cm light, with lighting part facing up, connect it to the following piece as per below.
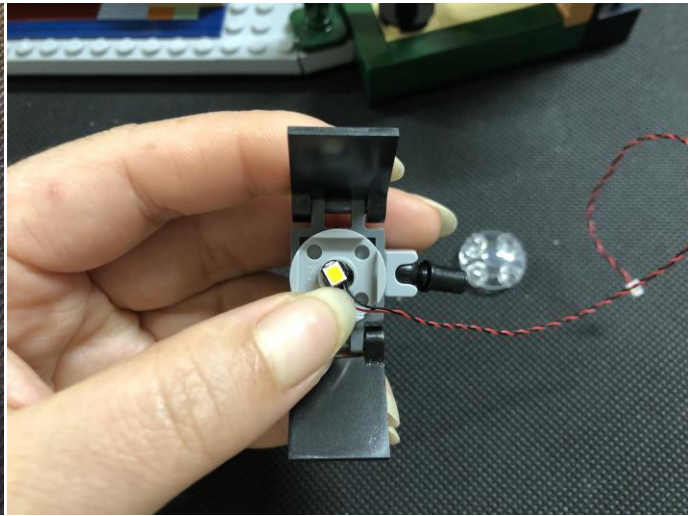
4.Reconnect the trans piece to secure the light, reconnect the spotlight.
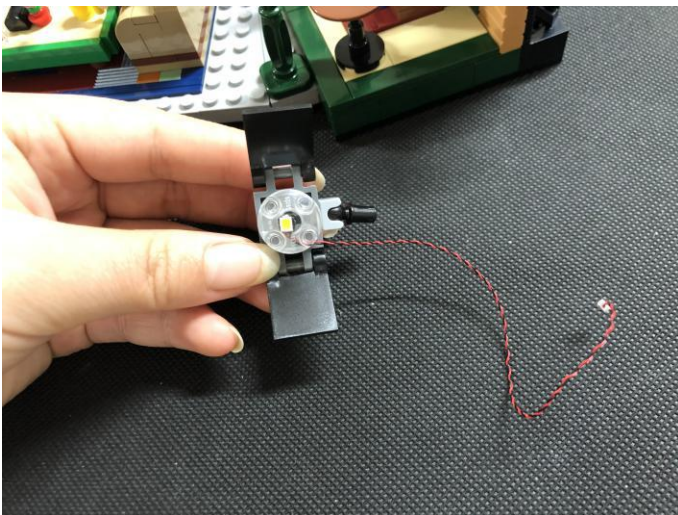
5.Continue to install light for the lamp beside the sofa.

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.
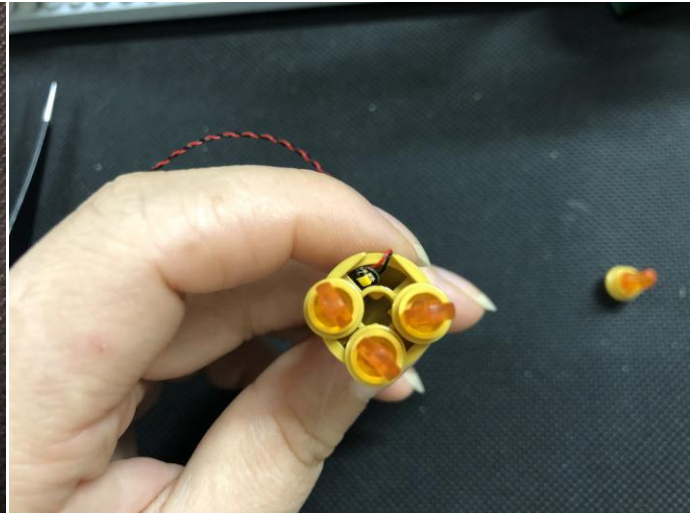
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9.Take another 3 warm white 15cm dot light, repeat the steps above to install lights for the last 3 flames.
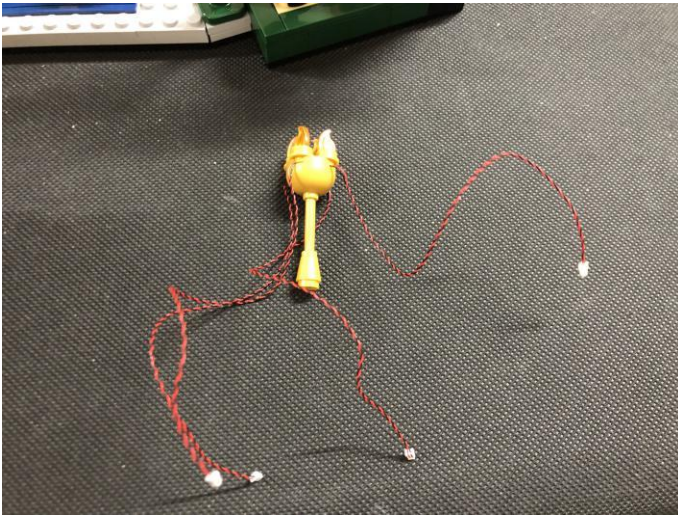
10.Reconnect the lamp. Remove the following section.

11.Thread the cable through the space to the bottom.
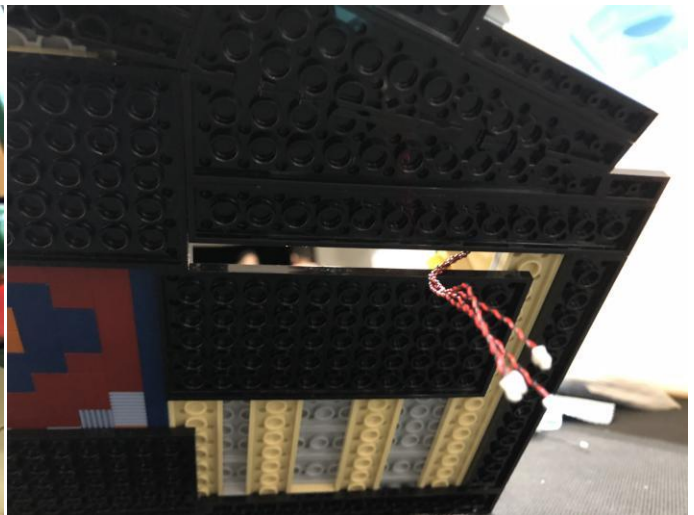
12.Reconnect the section we removed before.

13. Take a 6-port expansion board, a 5cm connecting cable, and a Flicker Effects Board. Connect the 4 cables from the lamp to the 6-port expansion board.
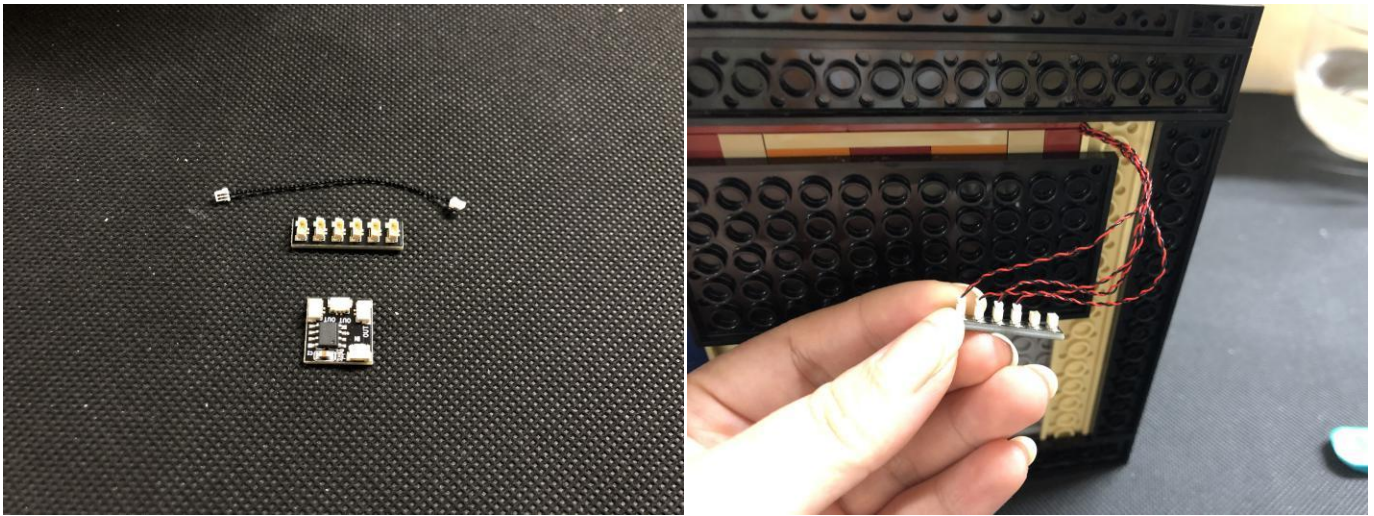
14. Connect the expansion board and the Flicker Effects Board together with the 5cm connecting cable. (note: do not connect the cable to the power port on the Flicker Effects Board). Stick the expansion board and the flicker effect board to the bottom with adhesive squares.
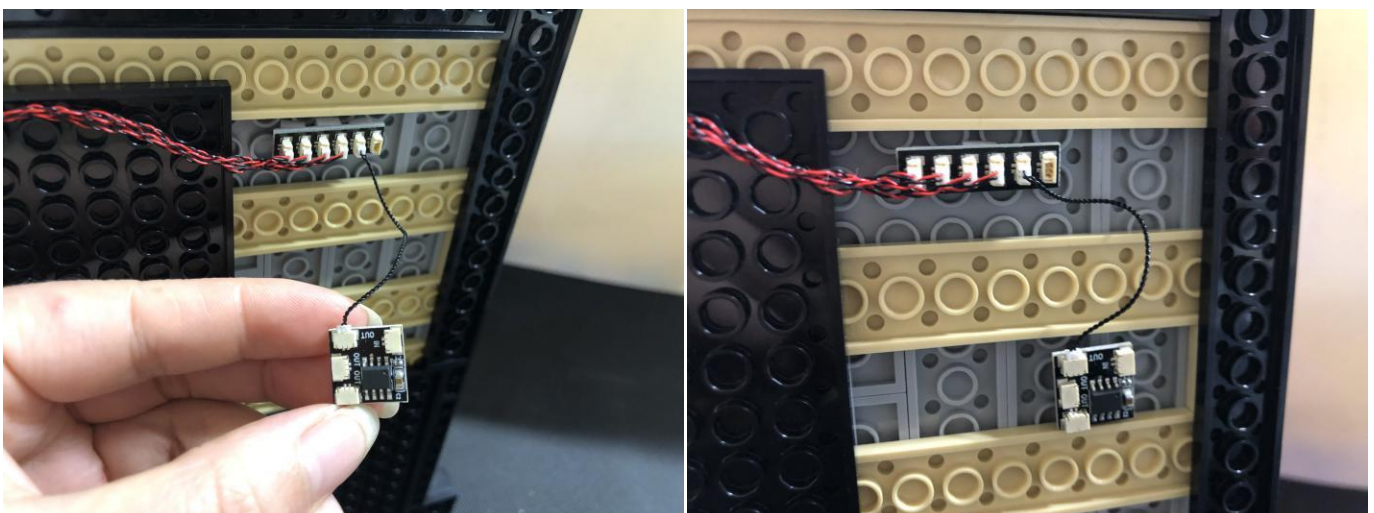
15. Take a 30cm connecting cable, connect it to the input port of the flicker effect board as per below.
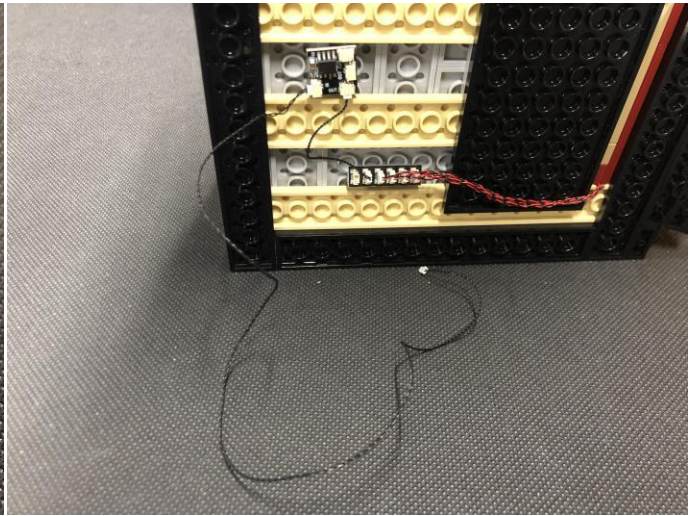
16. Take the remote control switch board, connect the other end of the 30cm connecting cable to it.
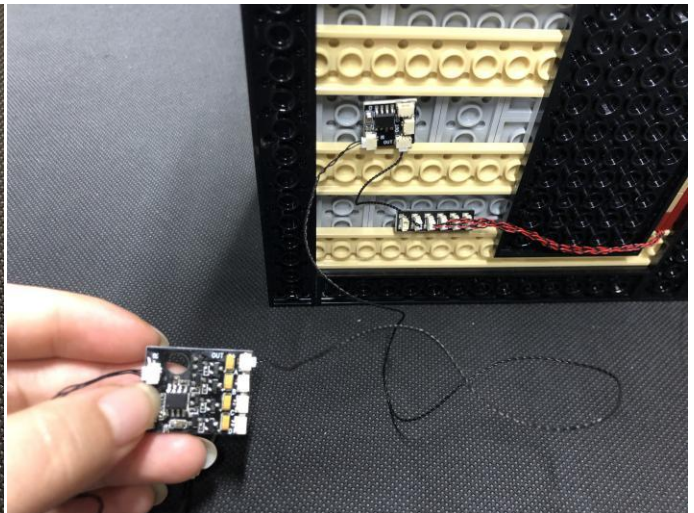
17. Take a 30cm light, repeat the steps we did for the spotlight at the right side to install the one at the left side.
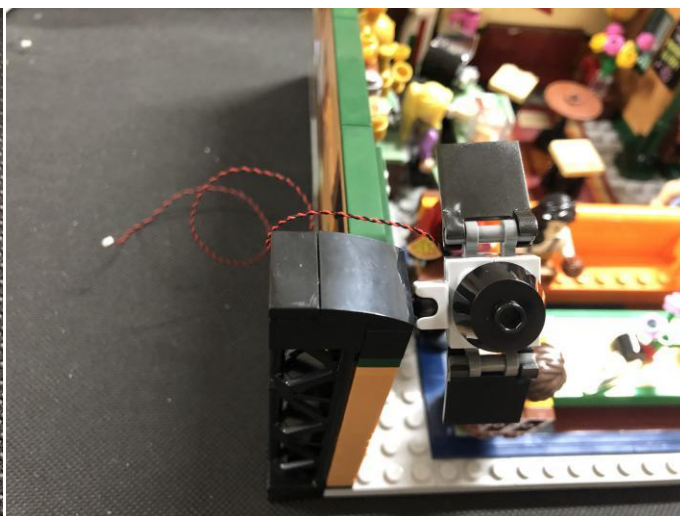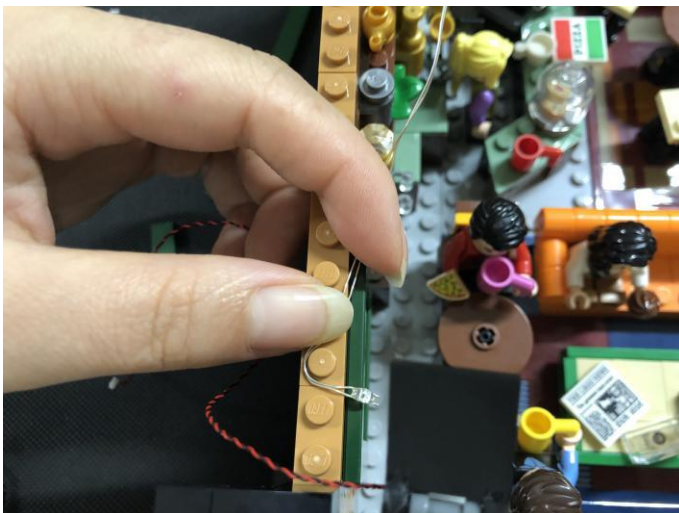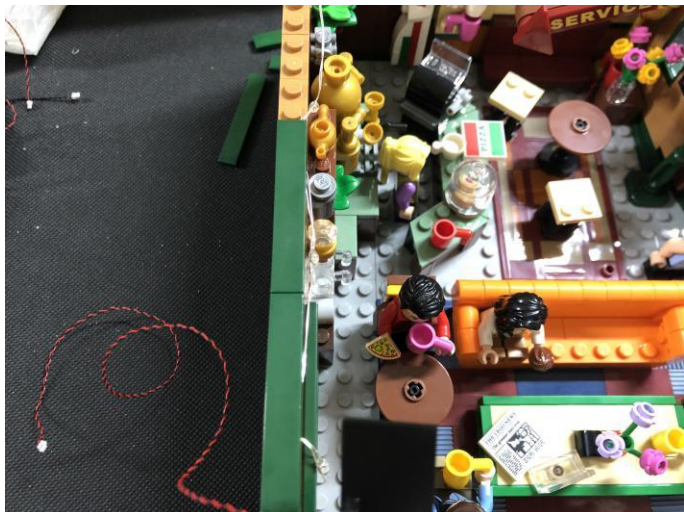

18. Remove the following beams as per below.

19. Take the Multi Colour Light String, connect it from the tail as per below.
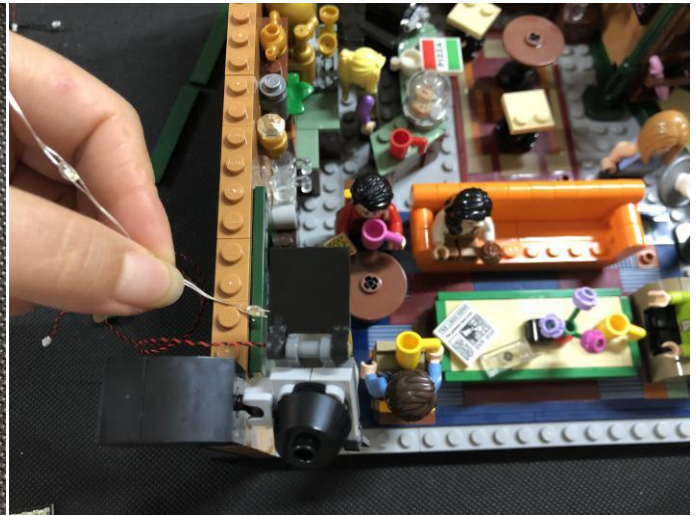
20. Place the Multi Colour Light String on the beams as per below , and reconnect the beams.
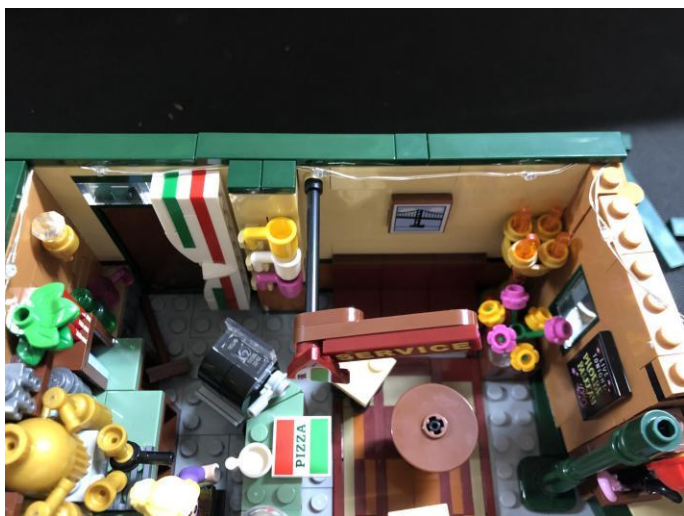
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25. Remove the base underneath the sofa and the vase, thread the Multi Colour Light String through the space and pull it out from the bottom.
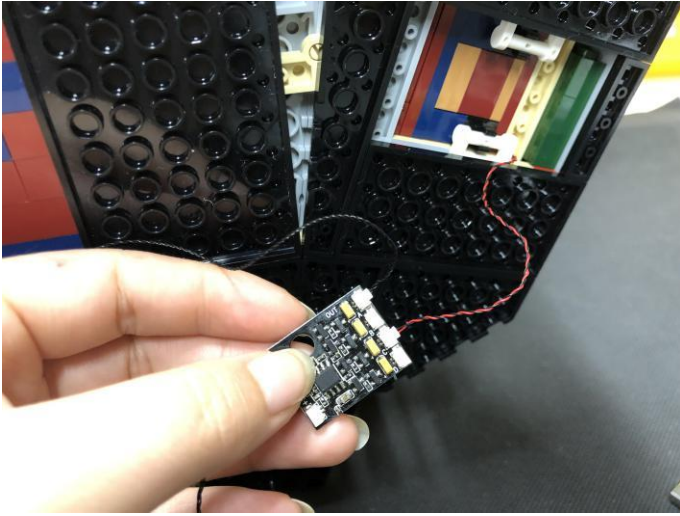
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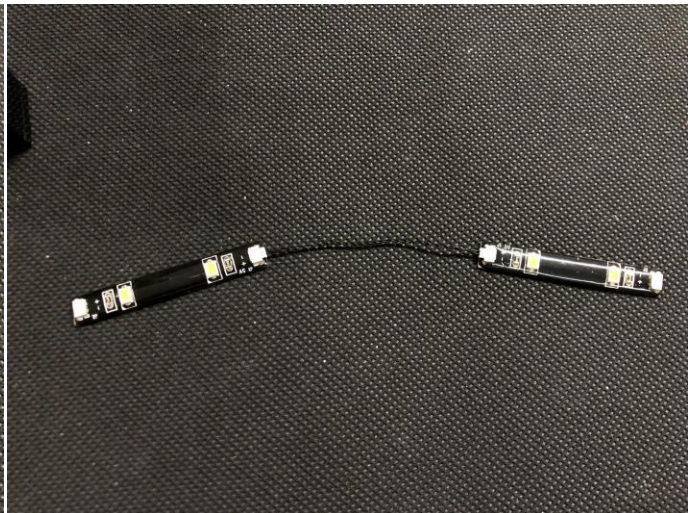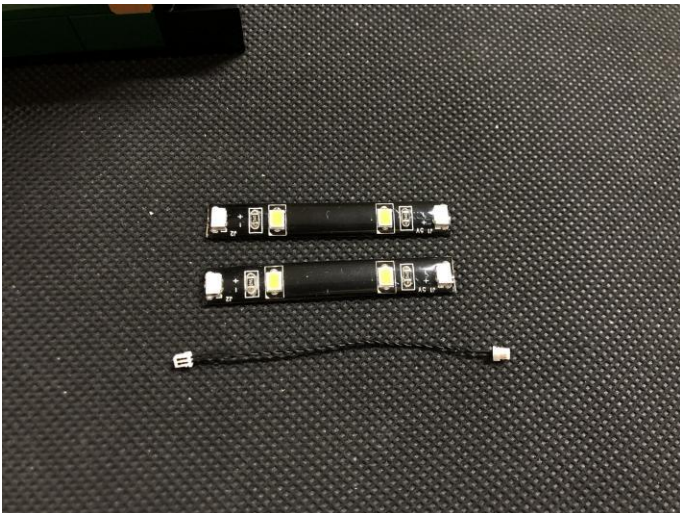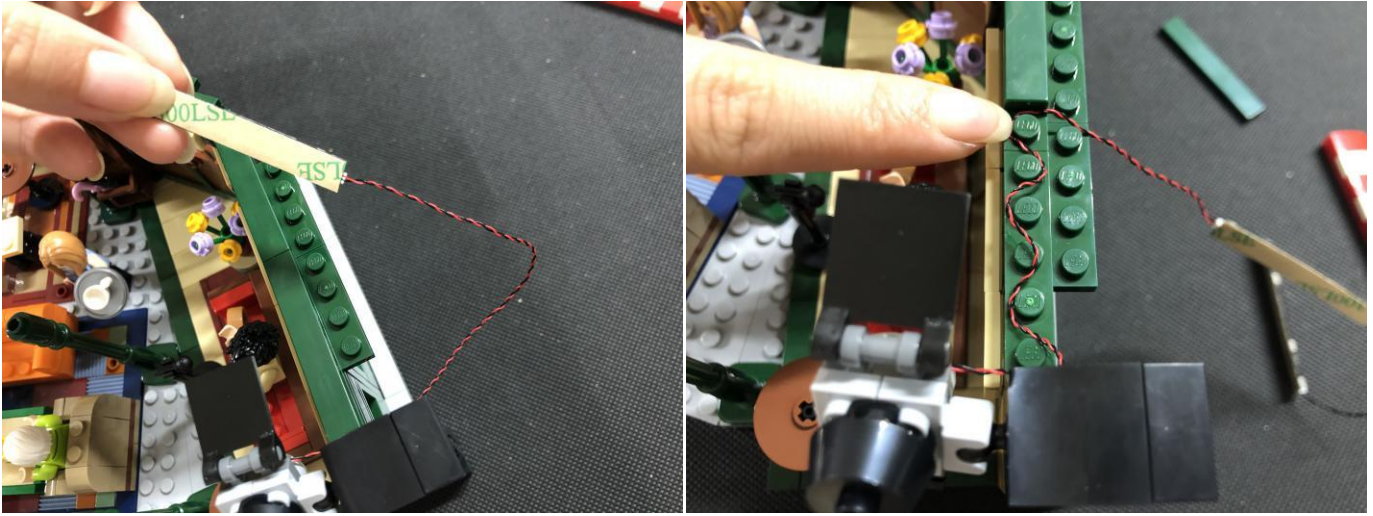**27.Reconnect the base plates(note: do not pull the cable too tight).**

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**29.**Connect the cable of the light string to the remote control switch board as per below.

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

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

32.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.
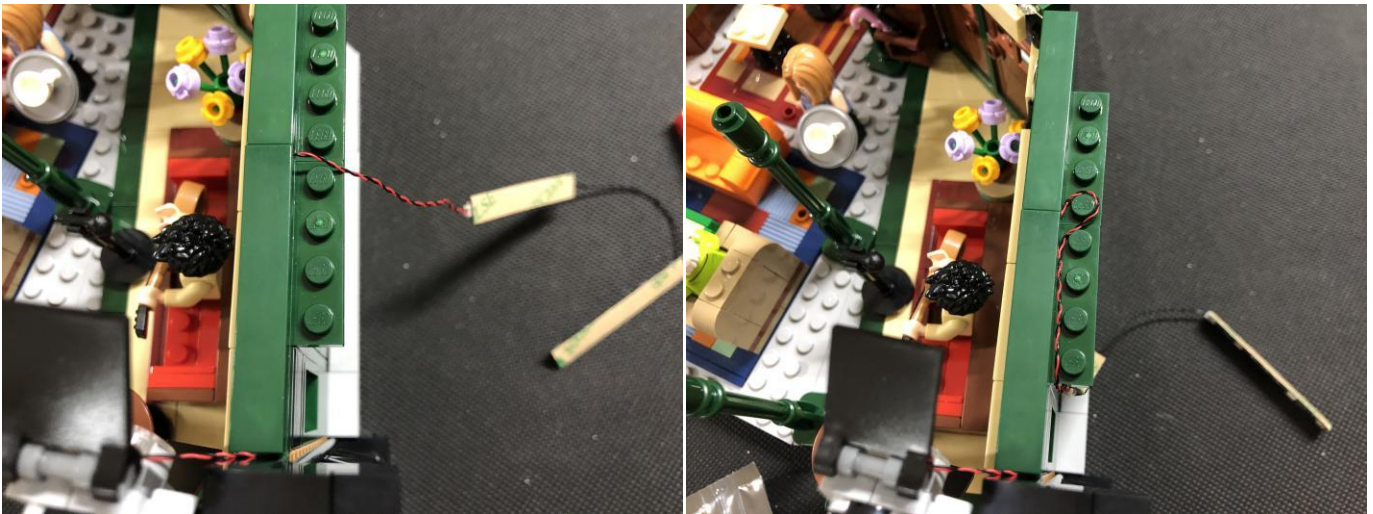
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34. **Stick the strip light to the eaves above the window as per below.**

35. **Stick another strip light underneath the roof of the door.**
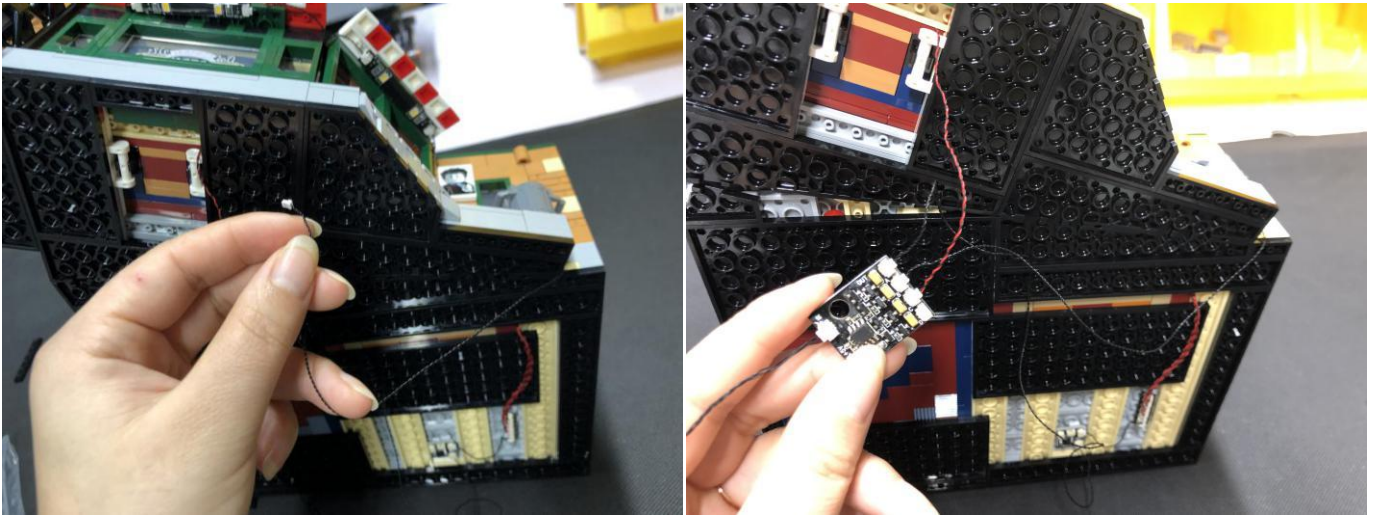
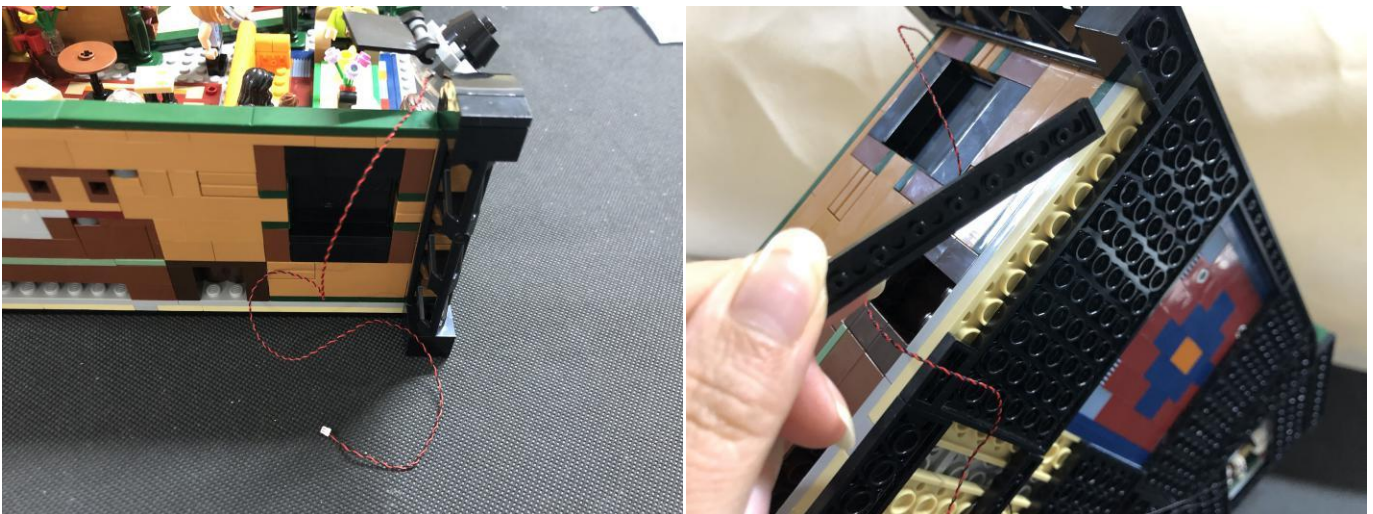**36.** Take a 30cm connecting cable, connect it to the strip light above the door.

37. Remove the following pieces to allow the cable thread through the flowing space, then, reconnect the pieces to secure the cable.
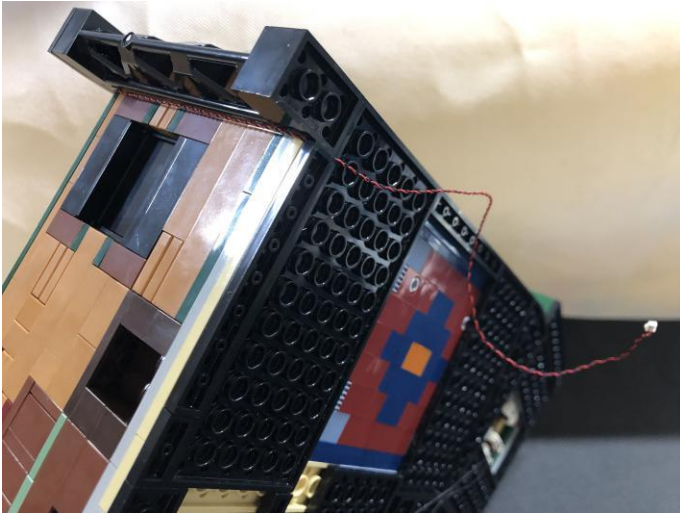
38. Pull the cable to the bottom, and connect it to the remote control switch board.
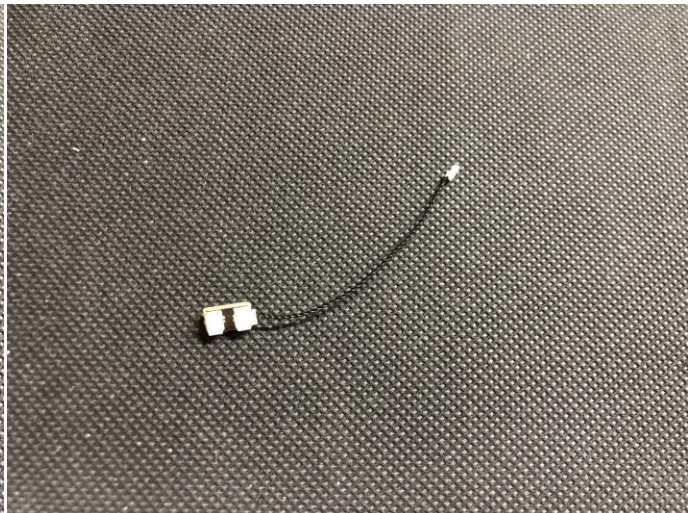

39. Connect the cable of the other spotlight to the remote control switch board. Turn the house to its side, remove the following piece.

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

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

42.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 remote control switch board.
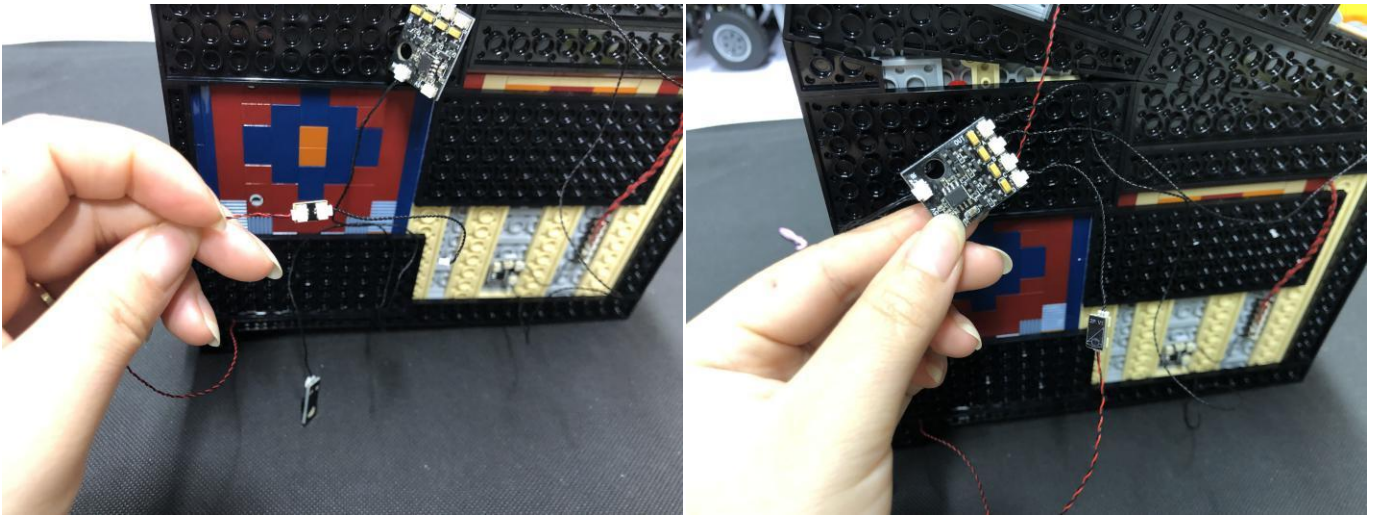
43.Tuck excess cables as per below, stick the remote control switch board to the following place with the adhesive squares.
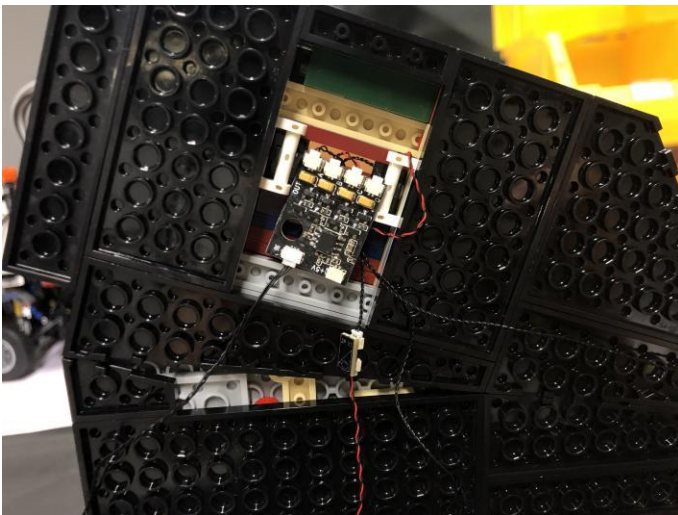
44.Take the USB cable, connect it to the input port on the remote control switch board as per below.

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