

21323 Grand Piano P171

- **P171 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 “21323 P171”.**
- **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
LED Strip Lights-White	LED Strip Lights-White	9
LED Strip Lights-Warm White	LED Strip Lights-Warm White	3
Expansion Board	6 Socket Expansion Board	1
USB Power Cable	USB Power Cable-30CM	1
AAA Battery Box	AAA Battery Box	1
Connecting Cables-5CM	Connecting Cables-5CM	4
Connecting Cables-15CM	Connecting Cables-15CM	9
Connecting Cables-15CM-RGB	Connecting Cables-15CM-RGB	2
Connecting Cables-30CM-RGB	Connecting Cables-30CM-RGB	1
LED Strip Lights-RGB	LED Strip Lights-RGB	3
RGB Remote Control	RGB Remote Control	1
Parts package		

Please contact us immediately if there have any missing components.

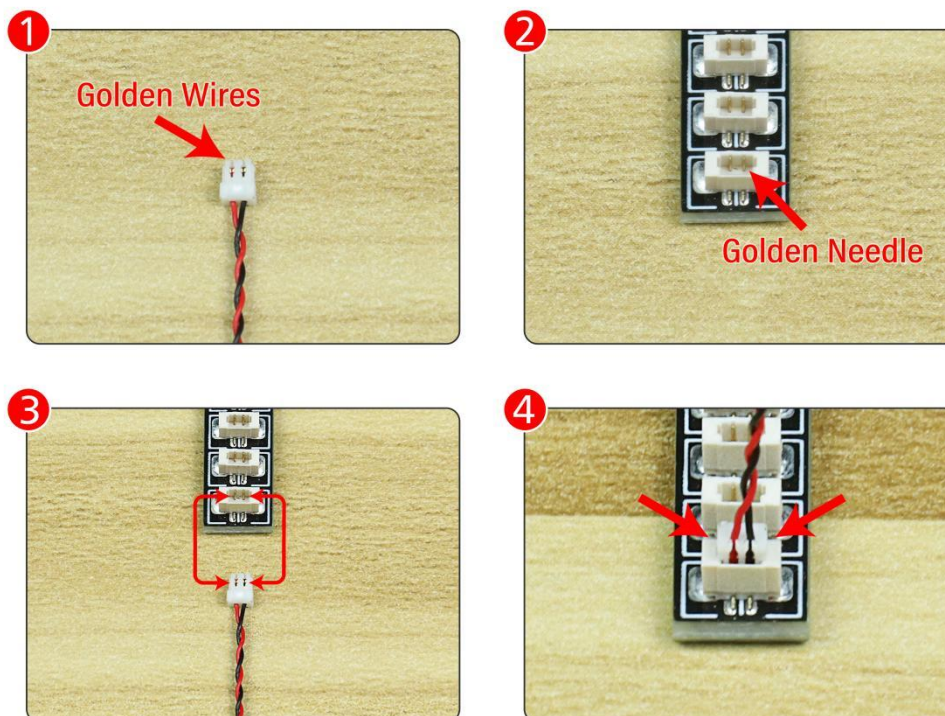
Section B: Test that each components is working properly.

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

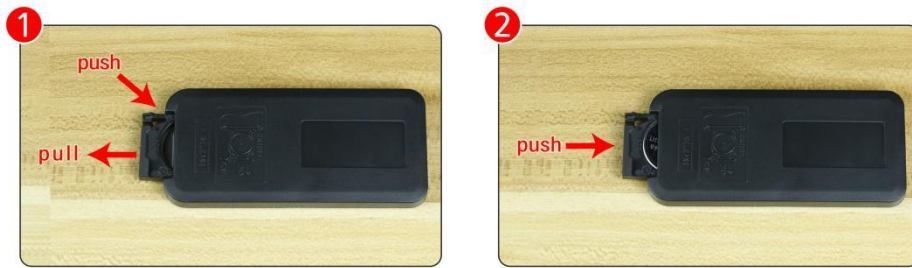


It is worth reminding that our products are all customized. They have a unique way of connecting. The white plug on wire and the socket of the expansion board need to be connected together to transmit power.

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.

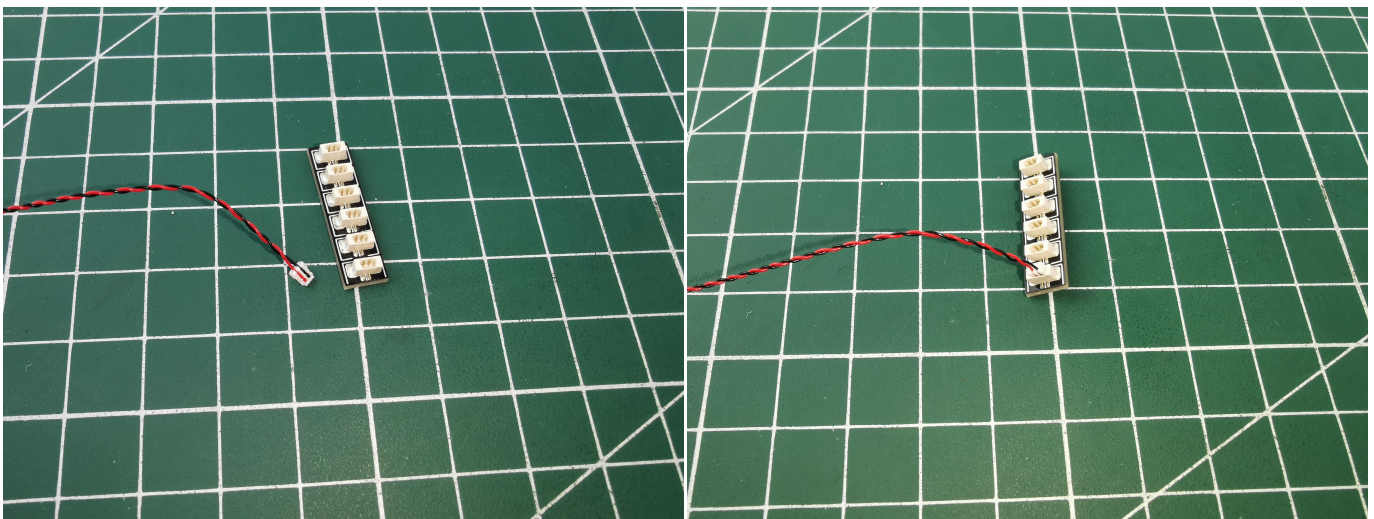


The RGB remote control does not contain batteries, please buy a CR2025 or CR2032 button battery in the nearest store and install it in the RGB remote control.

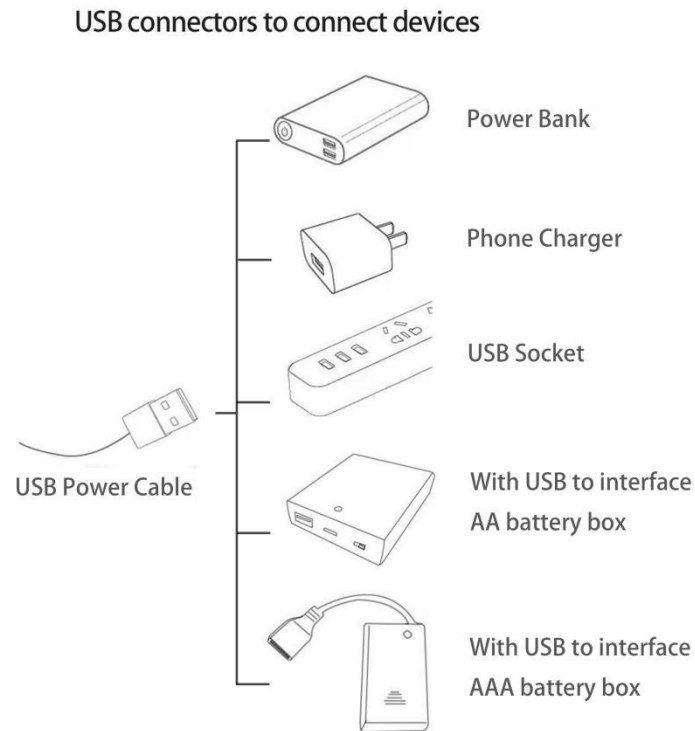


All our connections between plug and socket are all the same as shown above. So for any such structure with plug and socket, please pay attention to the golden wire of the plug and the golden needle of the socket, they must be touched together.

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



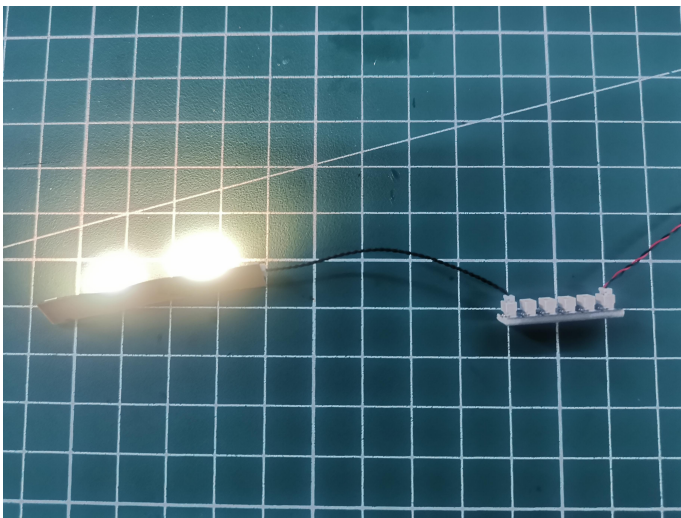
The USB Power Cord can be powered by phone chargers, power banks, etc.



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.



We took out the bag labeled "LED Strip - Warm White". Take out one of the LED strips, connect it with a "connecting cables-5CM", and finally connect it to the socket. Turn on the mobile power supply, the light will be on normally, as shown in the figure below (The RGB light bar must be connected to the RGB cable to light up normally).



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 9*LED Strip Lights-White,2*LED Strip Lights-Warm White,3*LED Strip Lights-RGB.

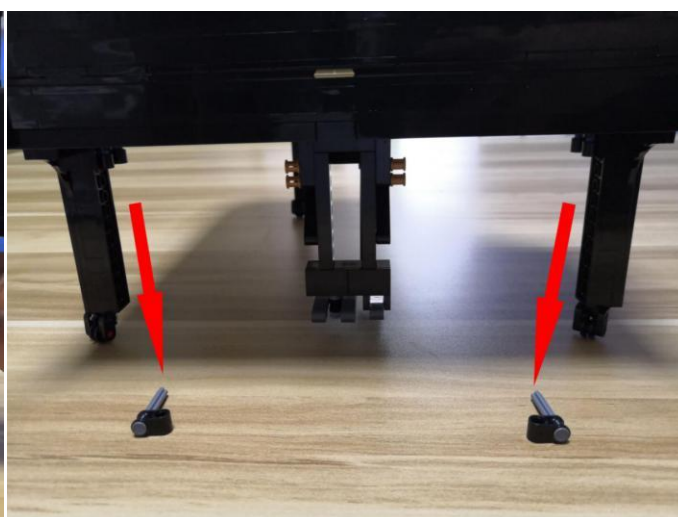
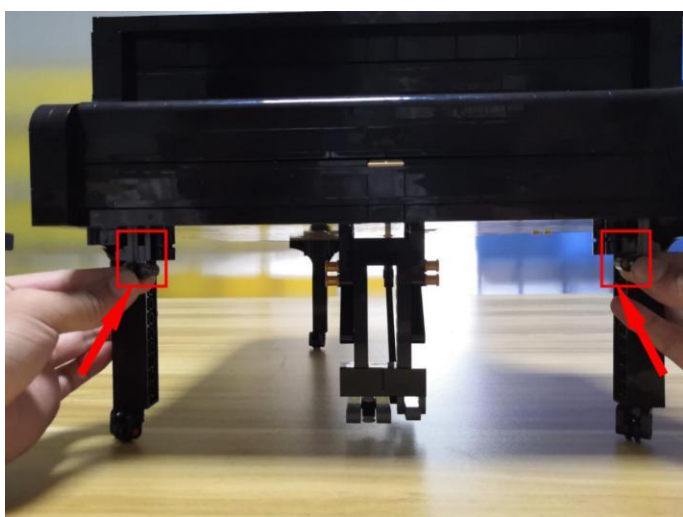
Please contact us immediately if any components don't work.

Section C: laying out components following the instruction.

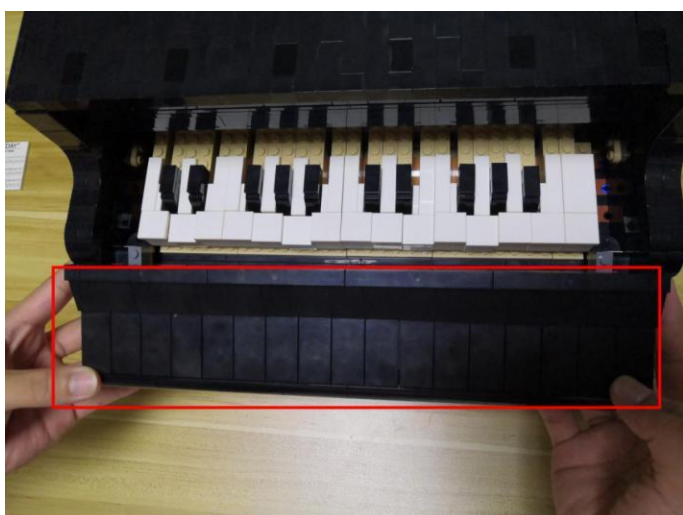
1.OK, Let' s Begin!



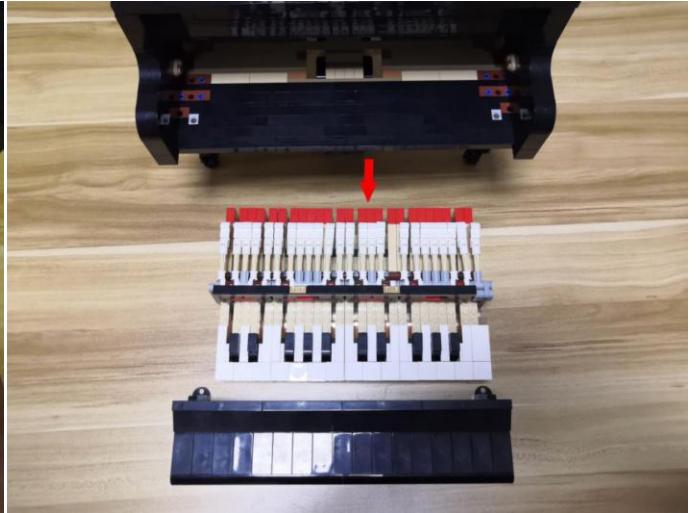
2.Take the piano, disconnect the following 2 bolts underneath it.



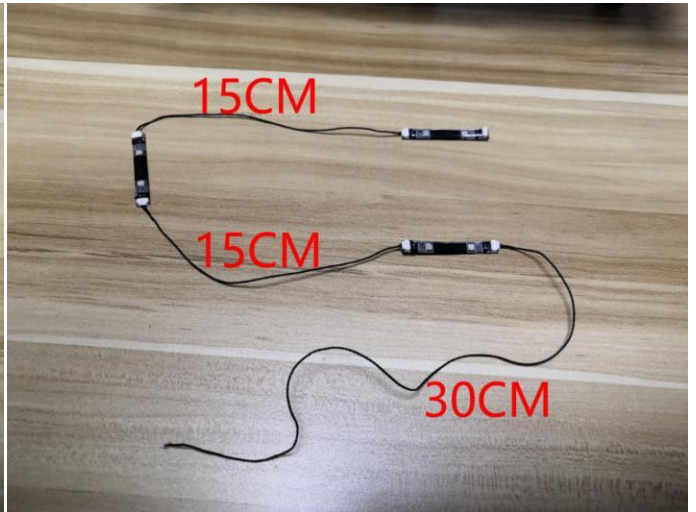
3.Remove the following piano keyboard and the plate.



4



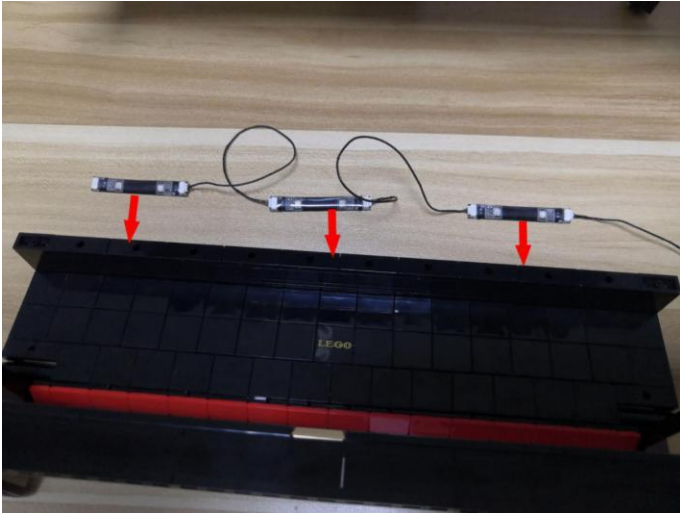
5. Take 3 RGB soft strip lights, two 15cm RGB connecting cables, a 30cm RGB connecting cable, assemble them as per below.



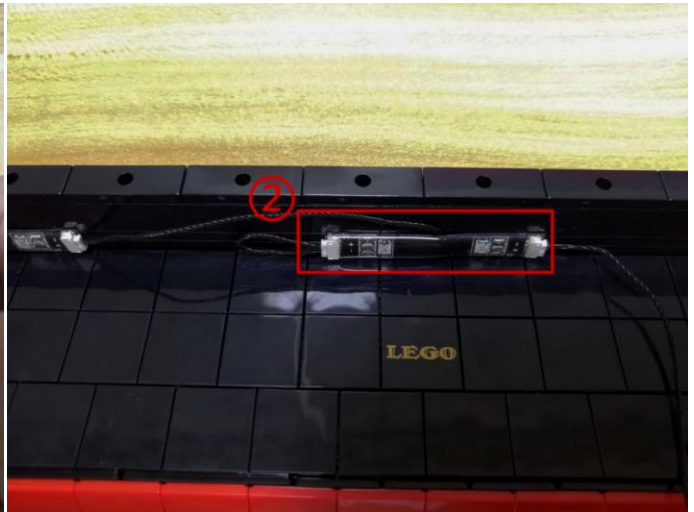
6. Take the plate, lift it as per below.



7. Stick a strip light to the following place on the plate.



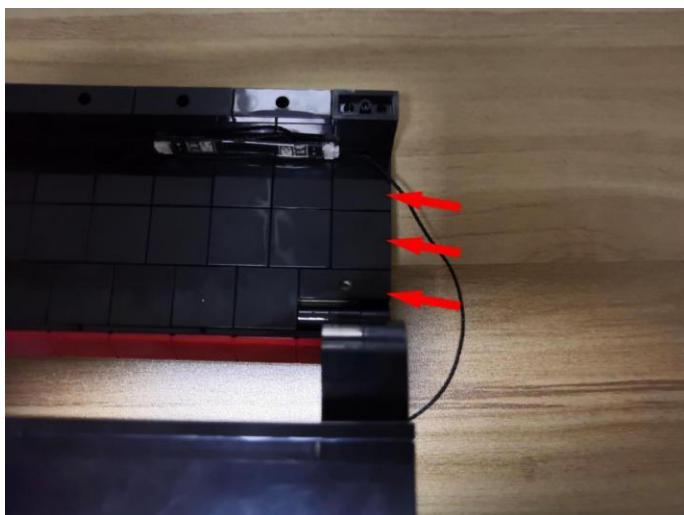
8. Stick the second strip light at the middle place, wind excess cable and press it underneath the strip light.



9. Stick the third strip light at the right side as per below, wind excess cable and press it underneath the strip light.



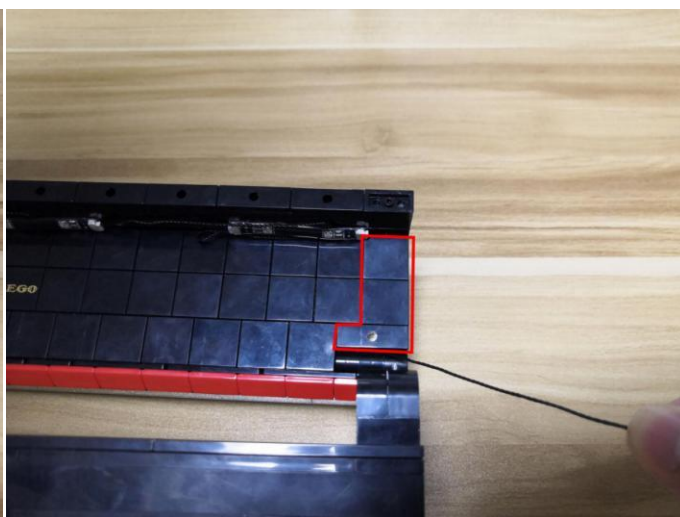
10. Disconnect the following 3 black pieces.



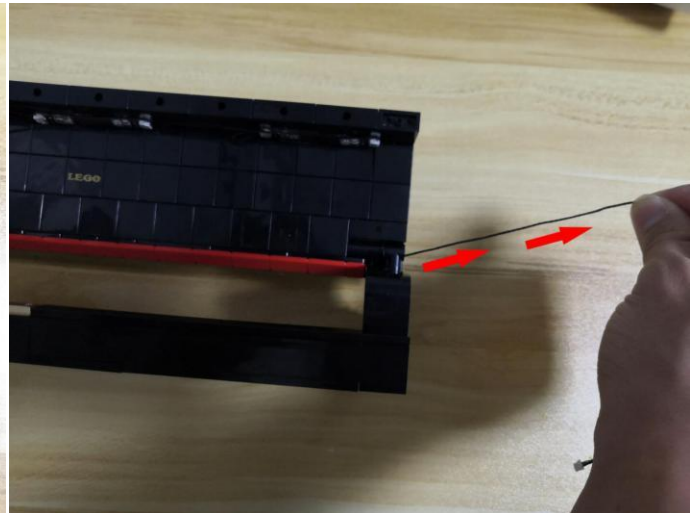
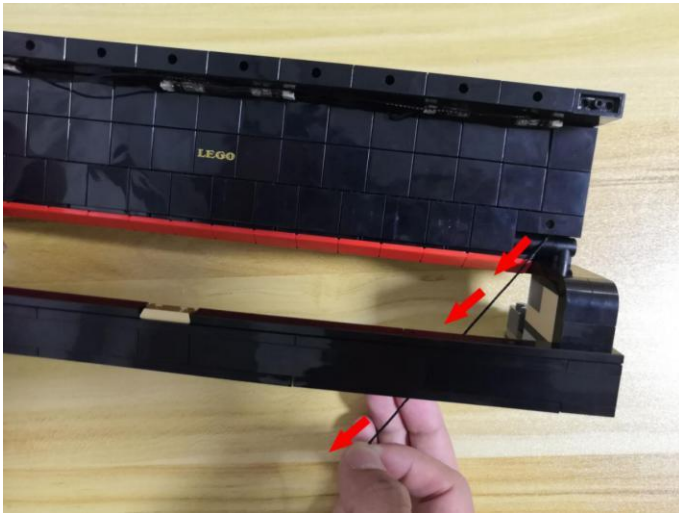
11. Thread the cable alongside the base, place it in between the beige piece and the black piece as per below.



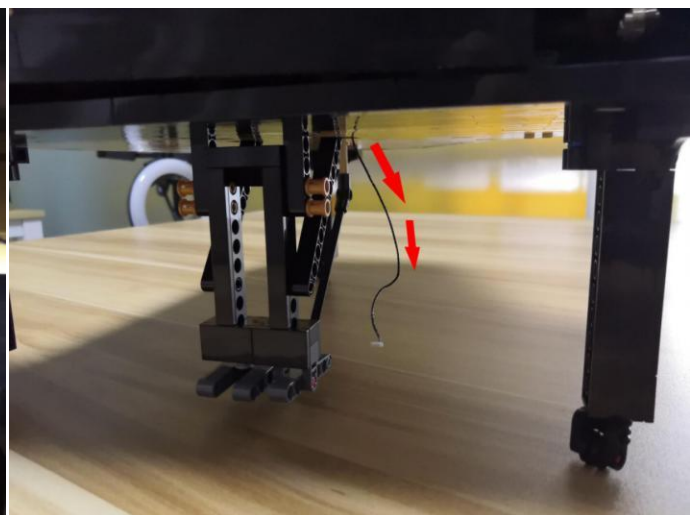
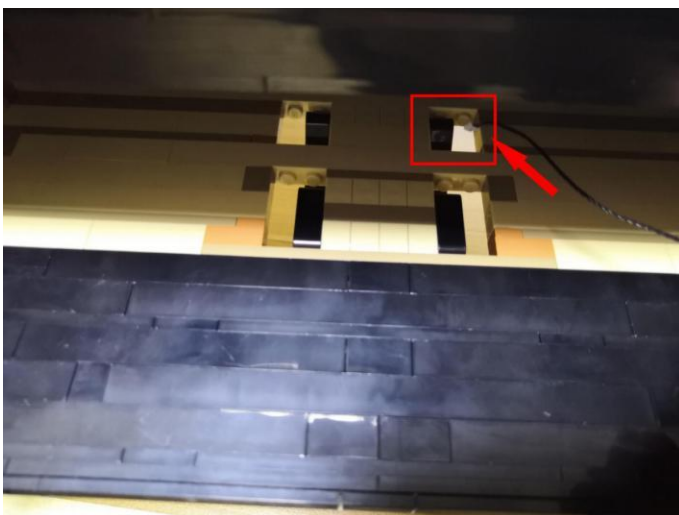
12. Reconnect the black pieces.



13. Pull the cable out behind the following plate.



14. Thread the cable through the following space underneath the piano.



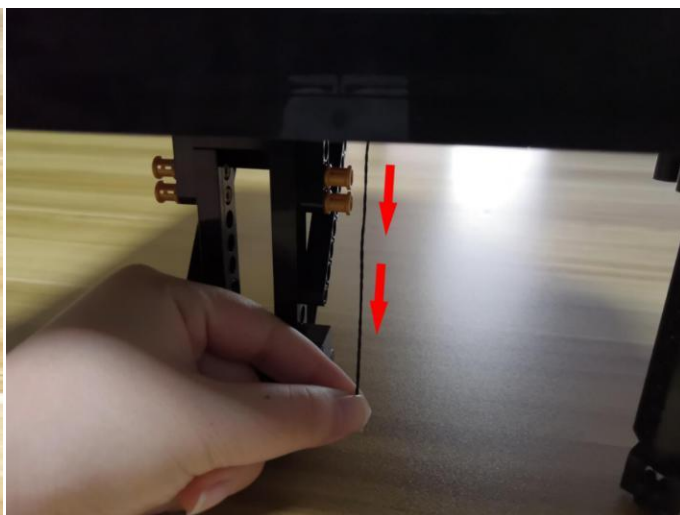
15. Reconnect the keyboard.



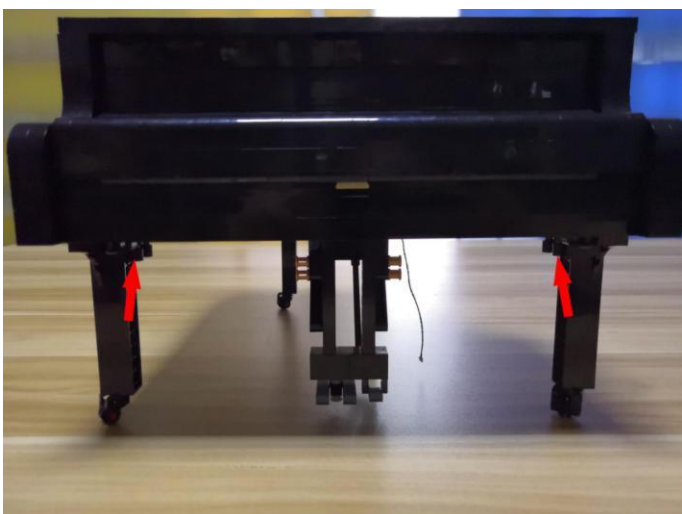
16. Pull the cable underneath the keyboard to the right side.



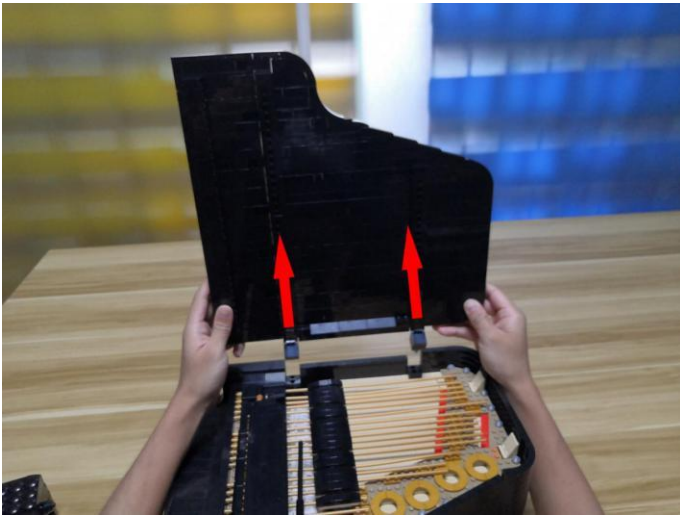
17. Reconnect the following plate (tighten the cable underneath slowly).



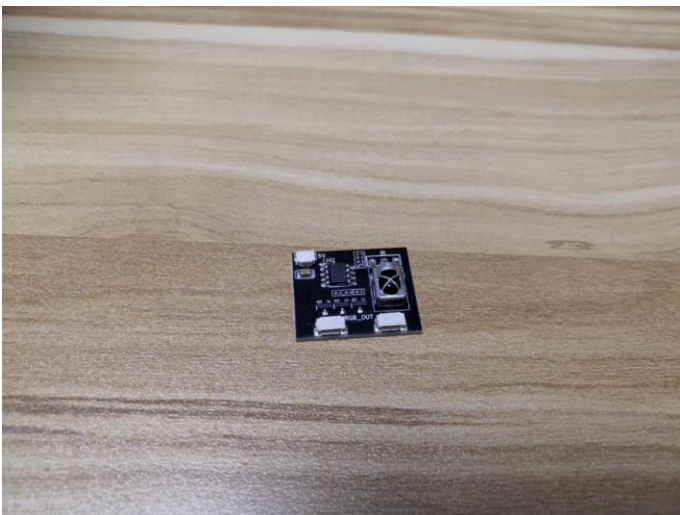
18. Reconnect the 2 bolts to secure the keyboard.



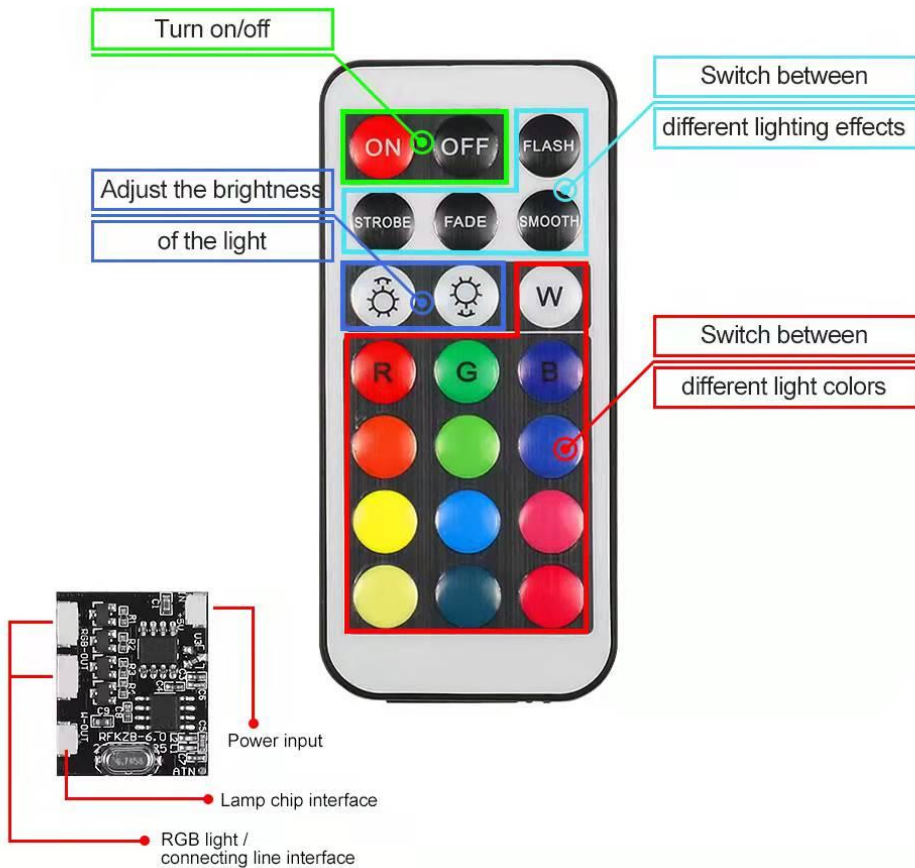
19. Disconnect the roof, turn the piano over to make the bottom face us.



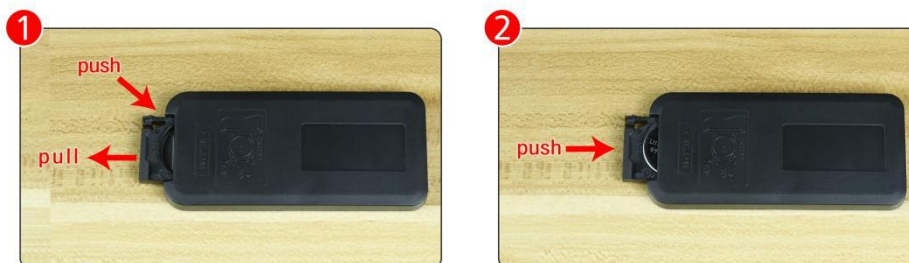
20. Take the RGB Remote Control Switch Board, a 5cm connecting cable, 2 adhesive squares.



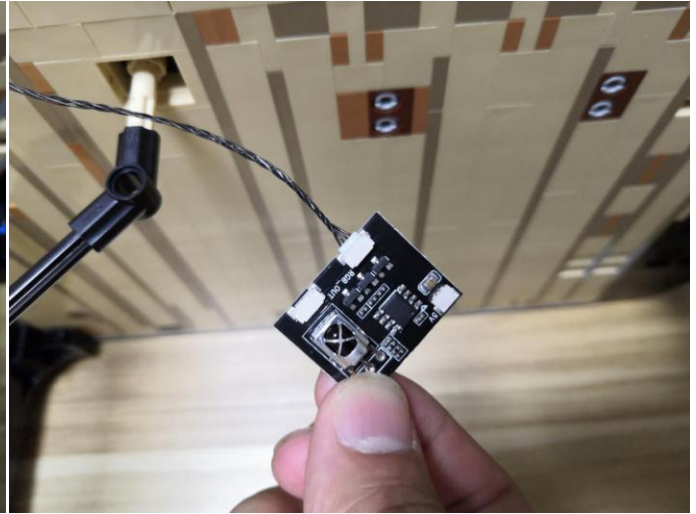
The module has been updated to the latest model, If you encounter any problems during the installation process, please contact the seller in time.



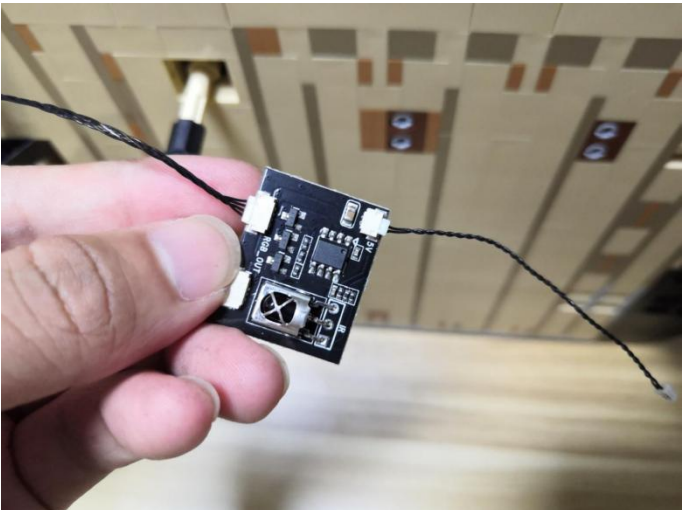
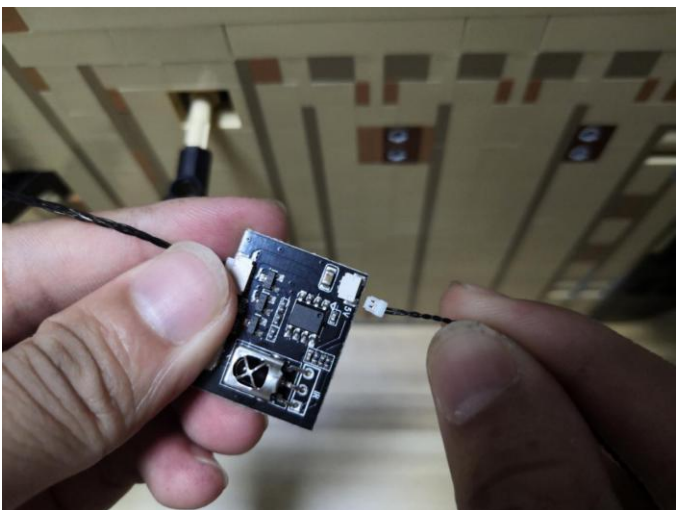
The RGB remote control does not contain batteries, please buy a CR2025 or CR2032 button battery in the nearest store and install it in the RGB remote control.



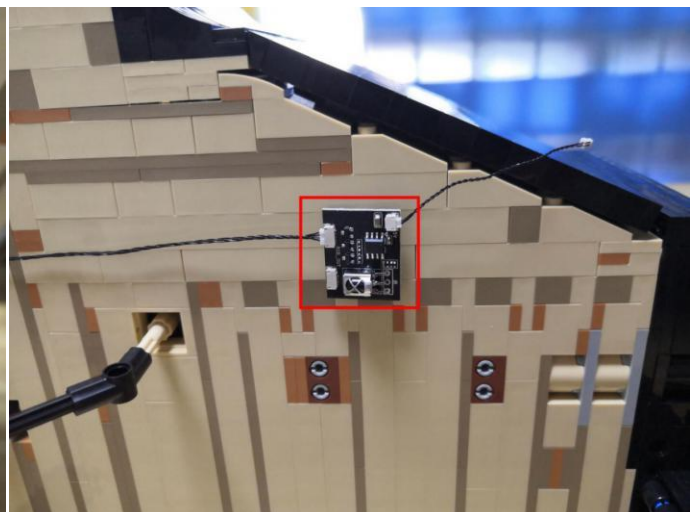
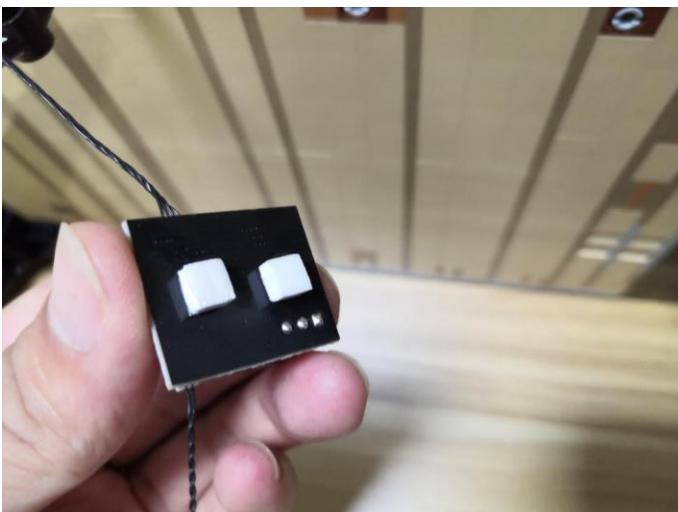
21. Connect the cable underneath the piano to the input port on the RGB Remote Control Switch Board



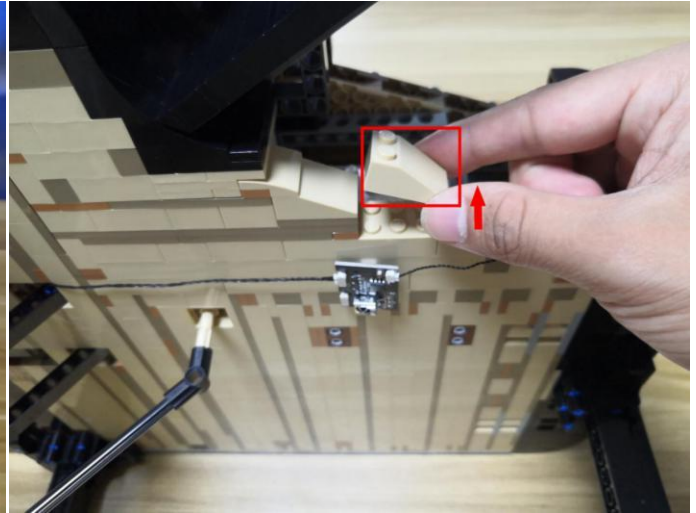
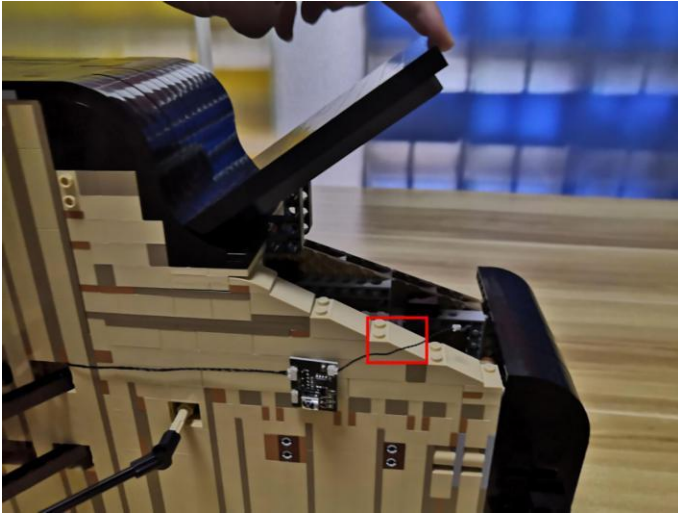
22. Connect the 5cm cable to the module



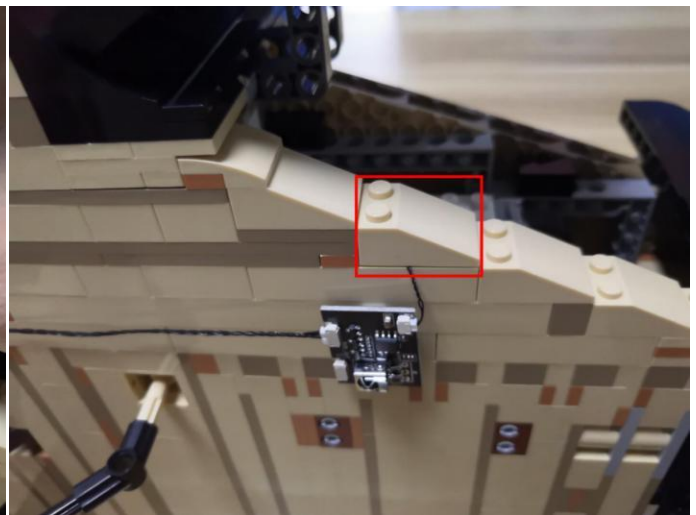
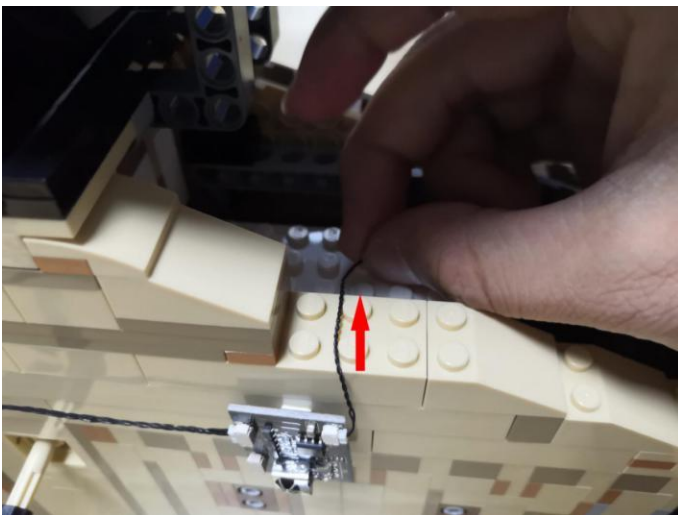
23. Stick the RGB Remote Control Switch Board to the following place (tighten the cable up).



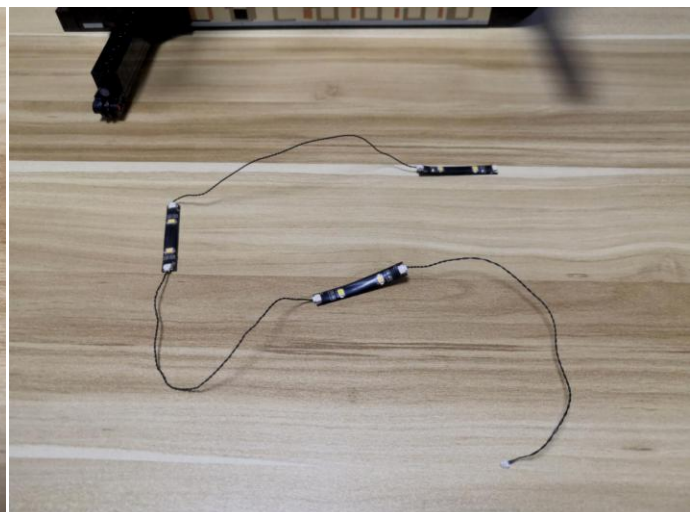
24. Open the following side plate, disconnect the beige piece.



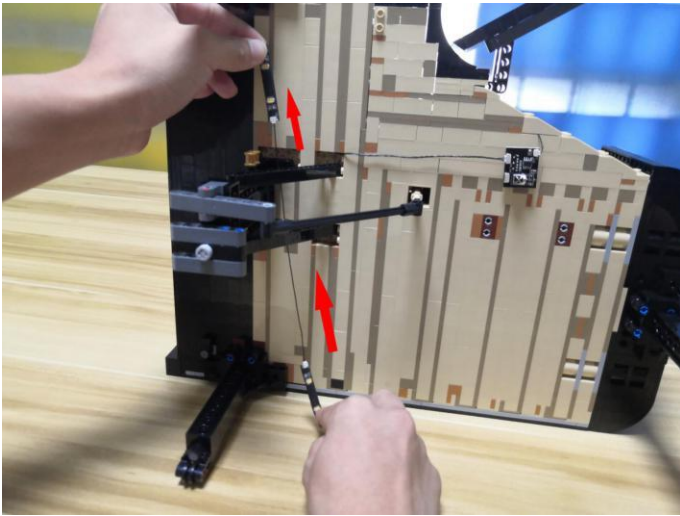
25. Place the 5cm connecting cable as per below, reconnect the beige piece.



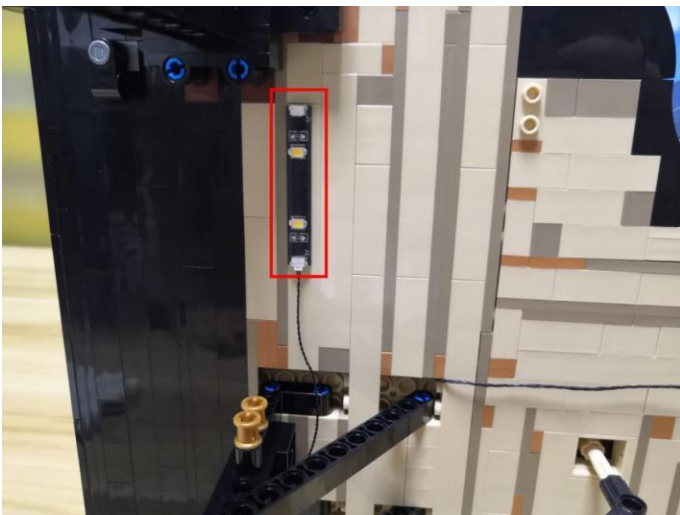
26. Take 3 warm white strip lights, three 15cm connecting cable, assemble them as per below.



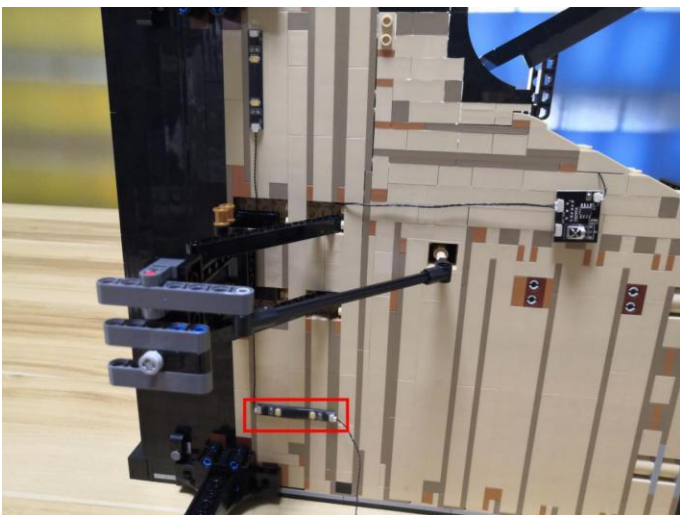
27. Thread the first strip light through the following space underneath the support of the pedal.



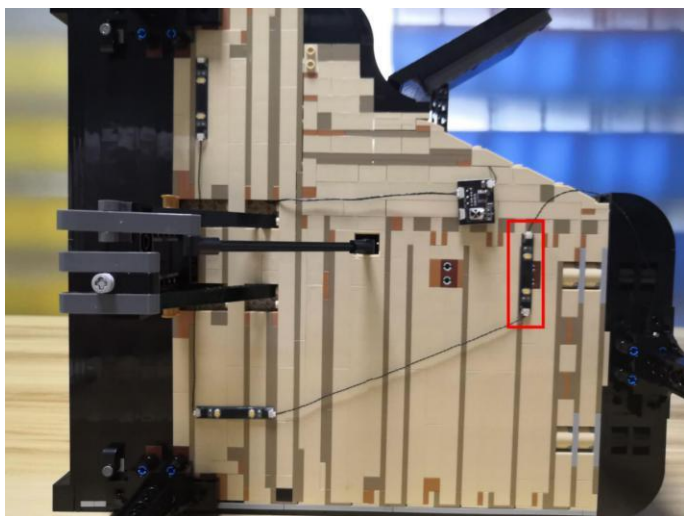
28. Stick the strip light to the following place.



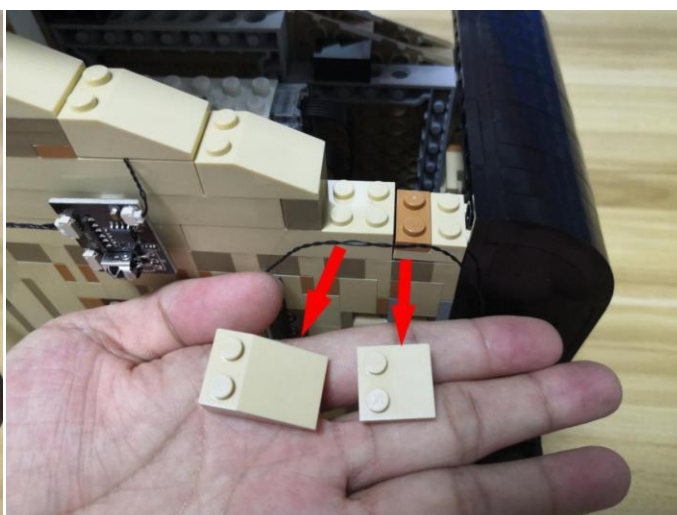
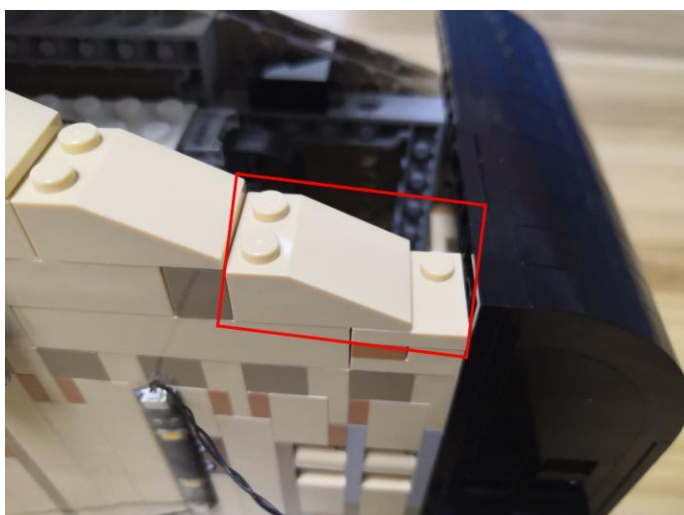
29. Tighten up cable between two strip lights, stick the second strip light to the following place.



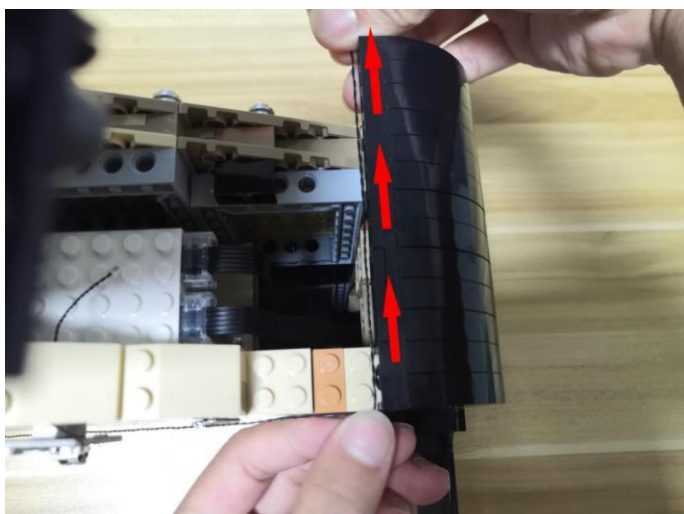
30. Tighten up cable between 2 strip lights, stick the third strip light to the following place.



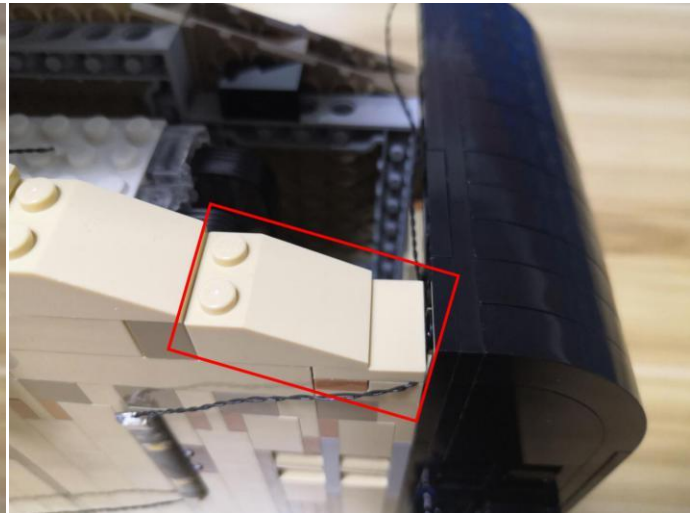
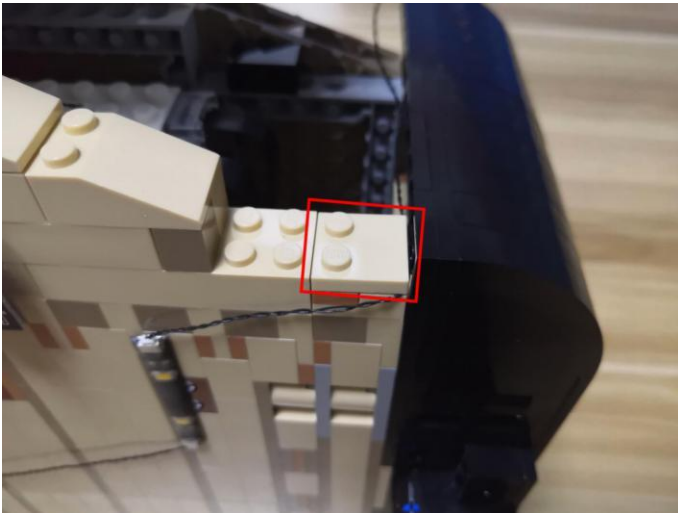
31. Continue to disconnect the following 2 beige pieces.



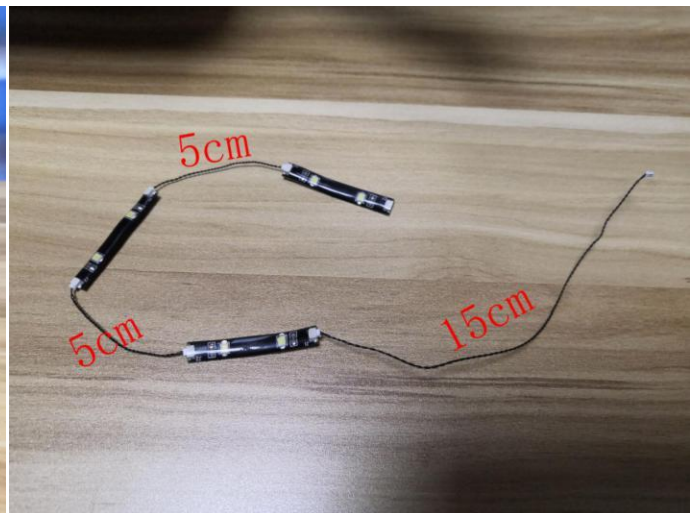
32. Place the connecting cable alongside the studs as per below.



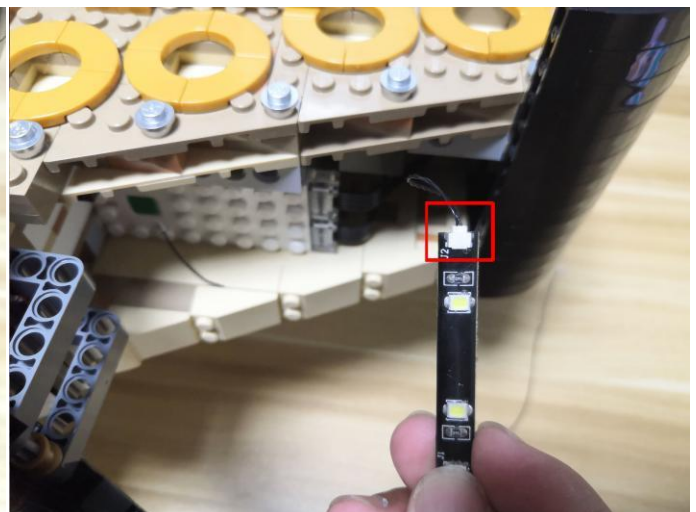
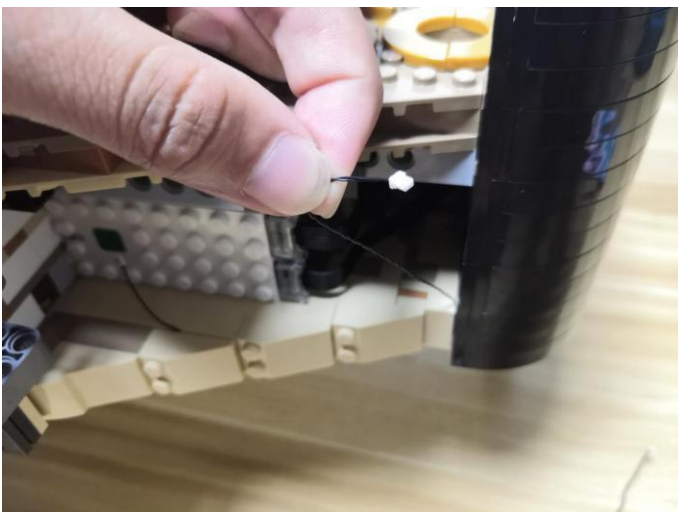
33.Reconnect the 2 beige pieces.



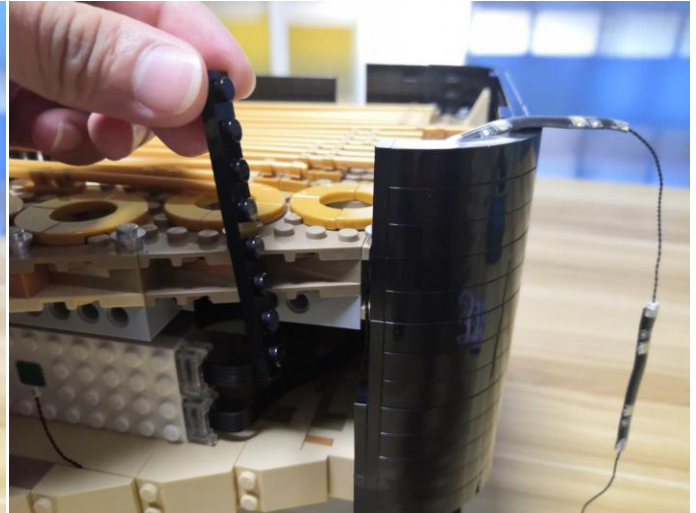
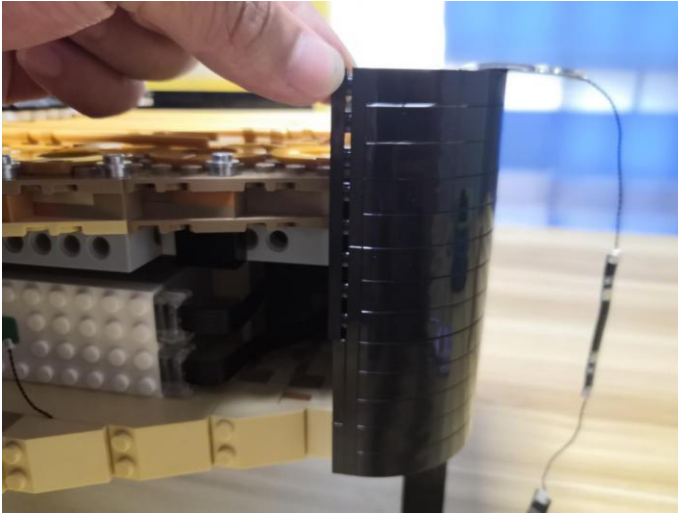
34.Turn the piano over, take 3 white strip lights, two 5cm connecting cables, a 15cm connecting cable, assemble them as per below.



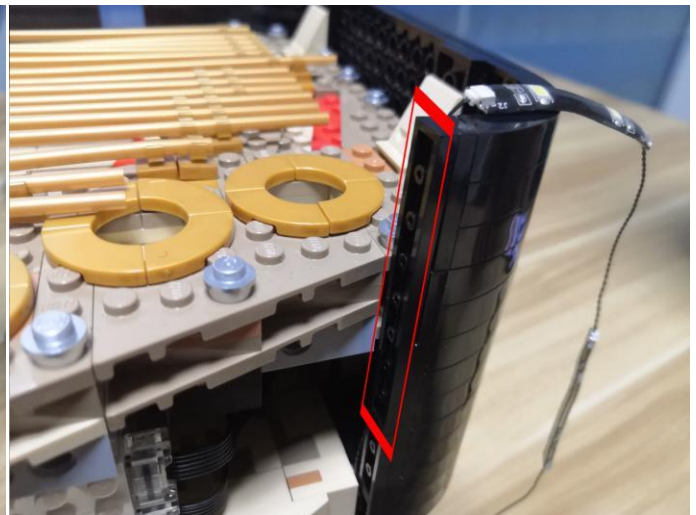
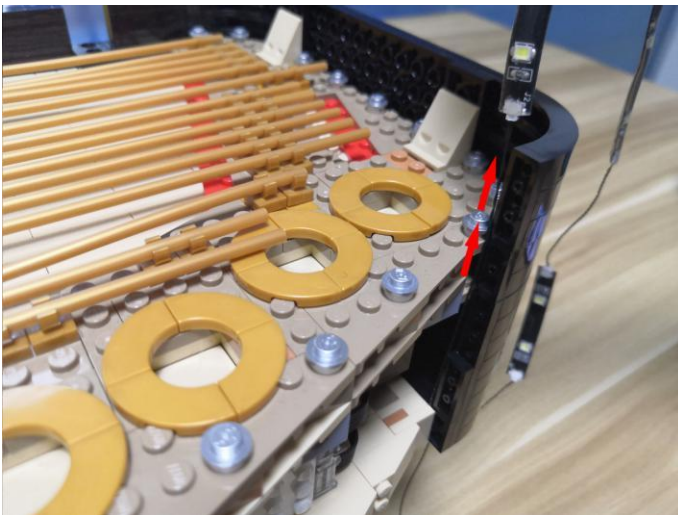
35.Connect the 15cm connecting cable underneath the piano to the white strip light as per below.



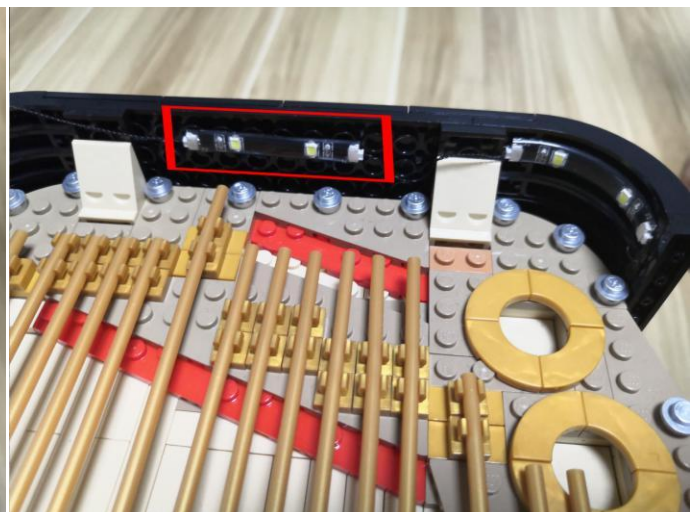
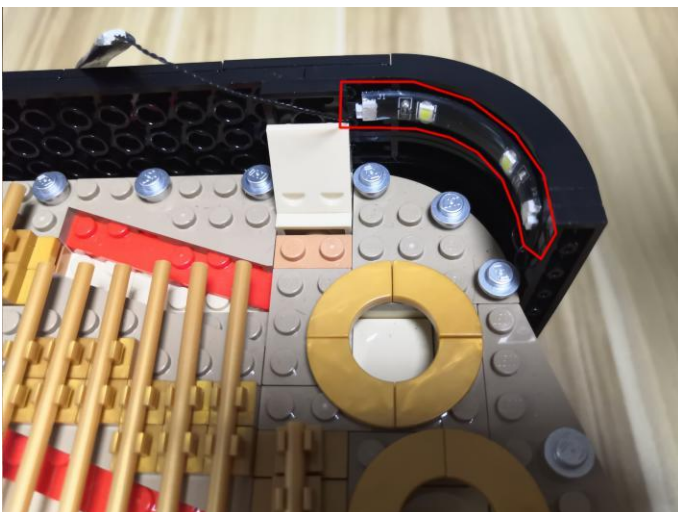
36.Remove the following 1x8 black piece.



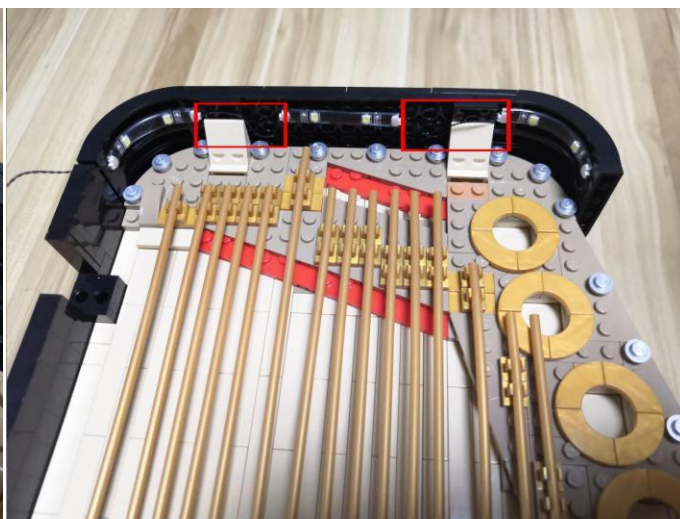
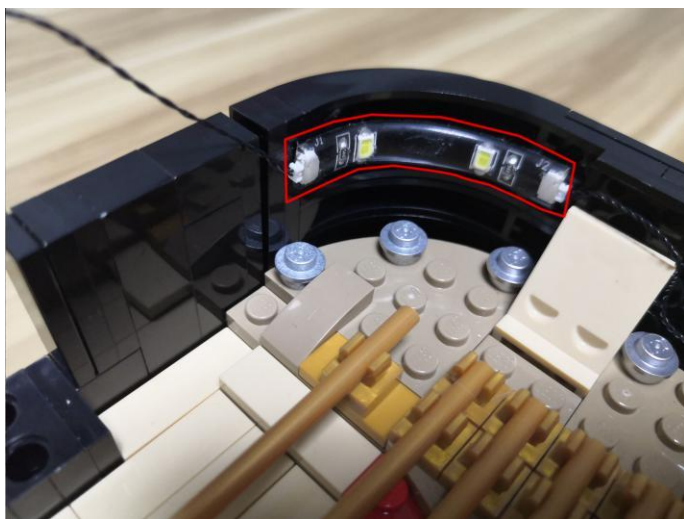
37.Place the cable as per below, reconnect the black 1x8 piece.



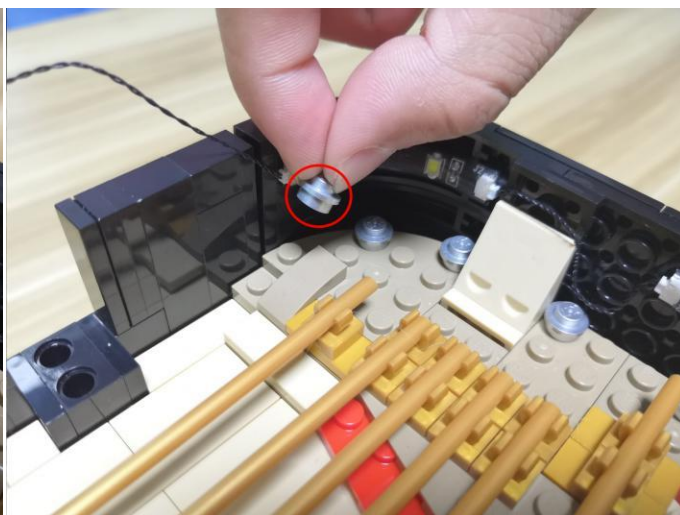
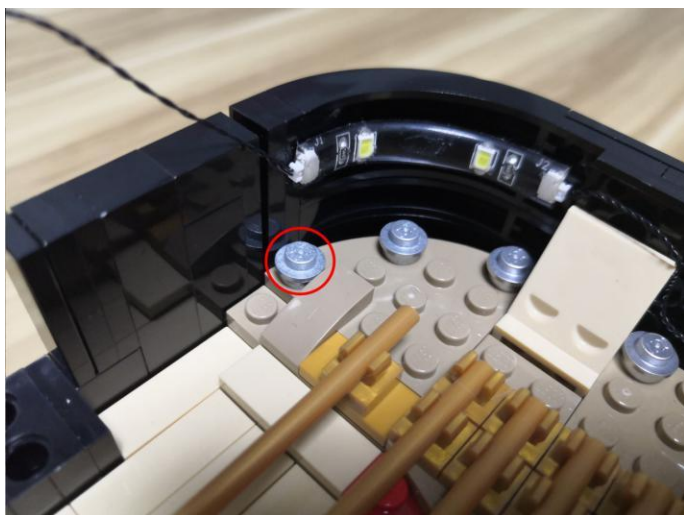
38.Stick the first white strip light inside the arc corner, stick the second strip light to the middle as per below.



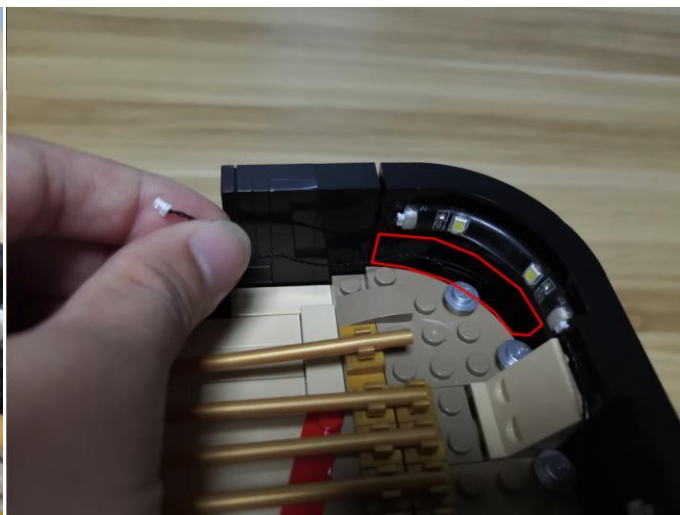
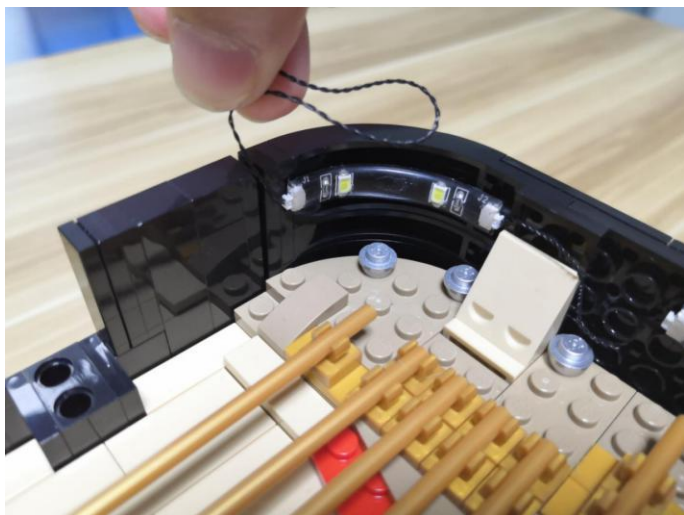
39. Stick the third strip light at the arc corner, tuck the cable as per below.



40. Disconnect the following silver round plate.



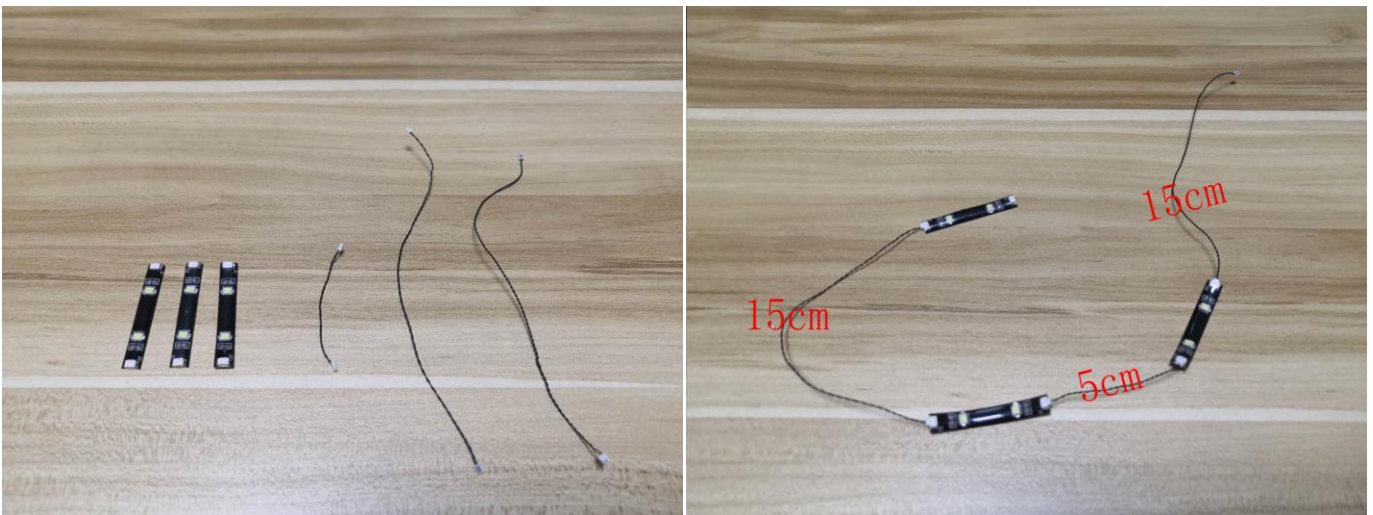
41. Place the cables as per below.



42. Save some length at left side as per below, reconnect the silver round plate.



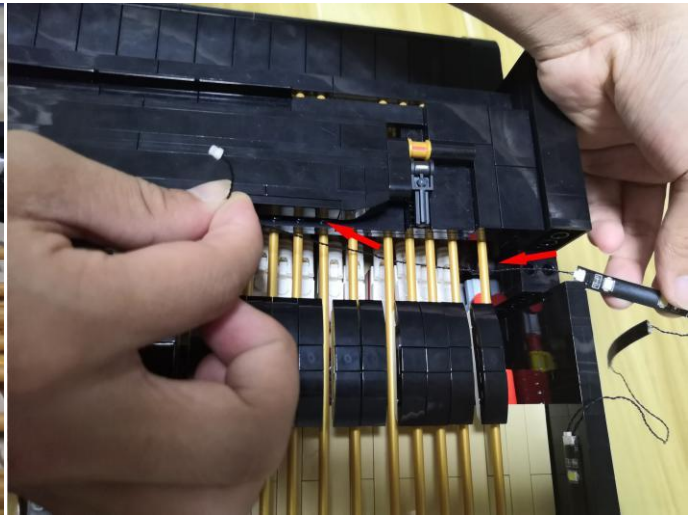
43. Take 3 white strip lights, a 5cm connecting cable, two 15cm connecting cables, assemble them as per below.



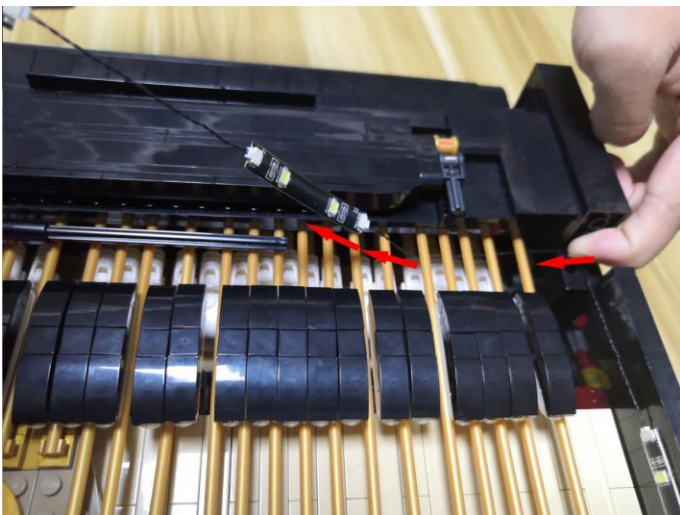
44. Connect the cable from the corner to the following strip light.



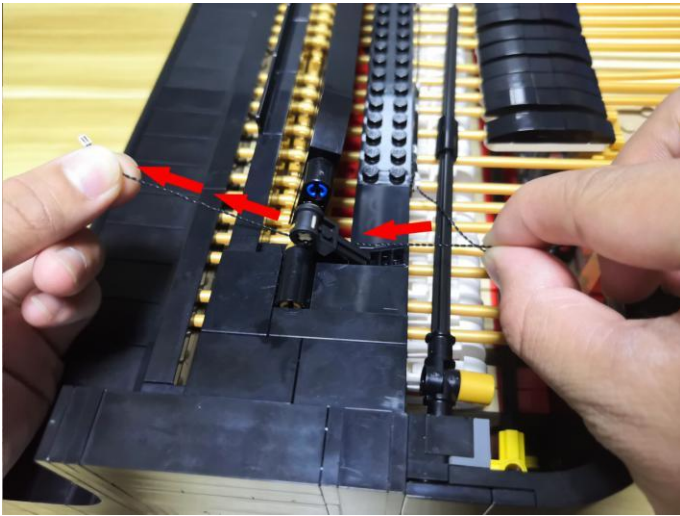
45. Stick the strip light at the following place, thread the cable and the strip light through the following space.



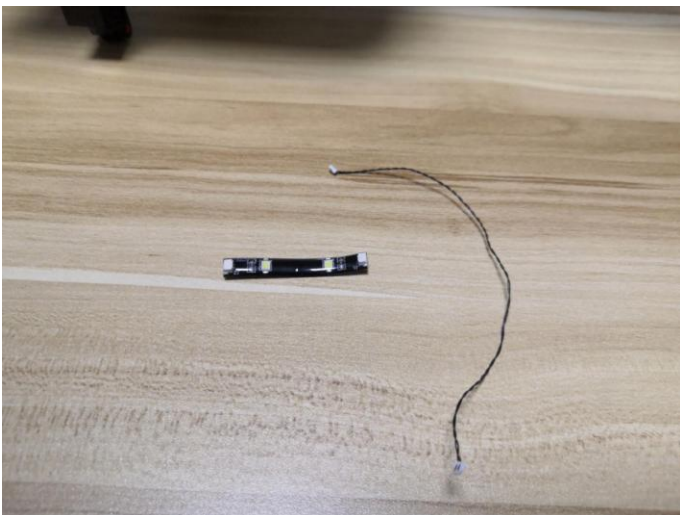
46. Pull all the strip lights through, stick the other strip lights at the following places.



47. Thread the 15cm connecting cable from the left side through the music stand.



48. Take a white strip light, a 15cm connecting cable, connect the connecting cable to the strip light.



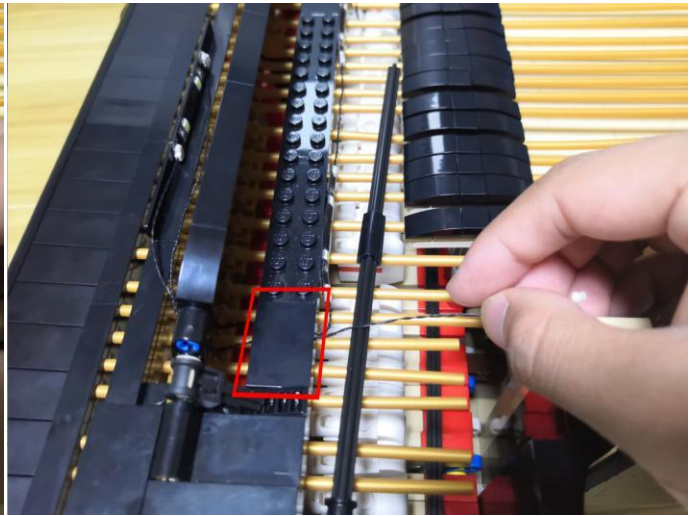
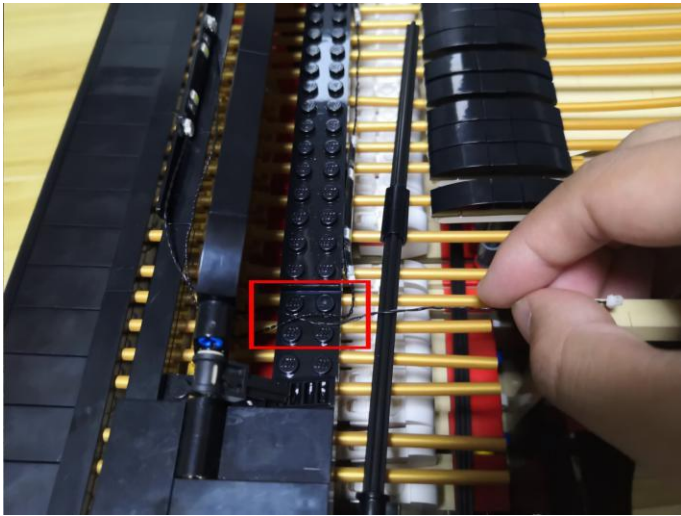
49. Connect the 15cm connecting cable underneath the music stand to the strip light, stick the strip light to the following place, pull the cable leftward.



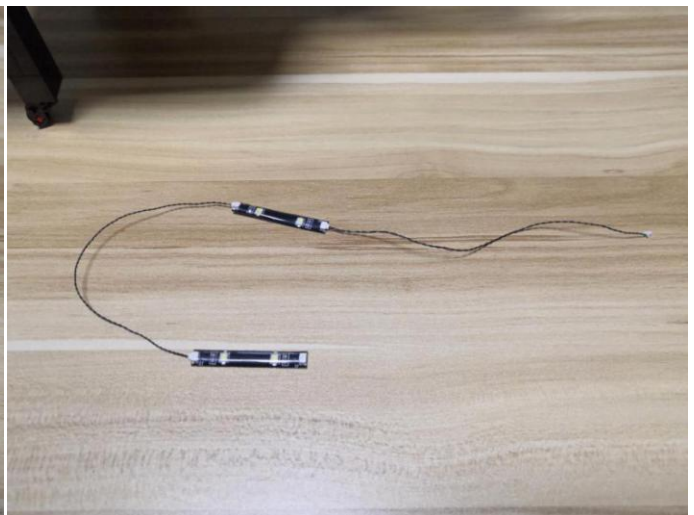
50. Thread the cable behind the music stand, disconnect the following black piece.



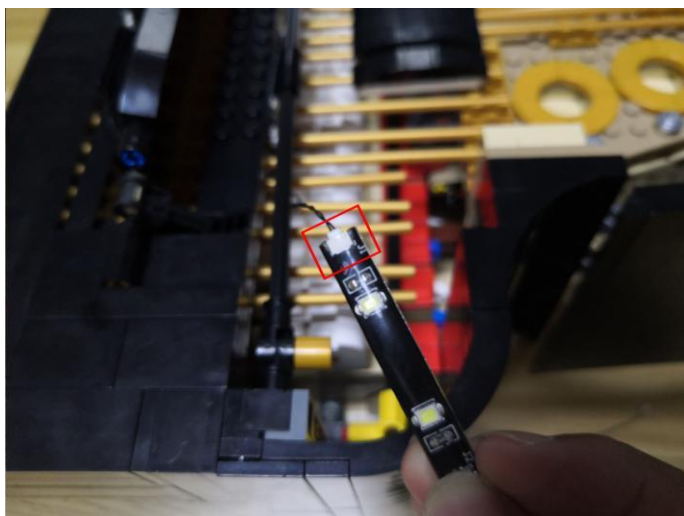
51. Place the cable as per below, reconnect the black piece, thread the cable down as per below.



52. Take 2 white strip lights, two 15cm connecting cables, assemble them as per below.



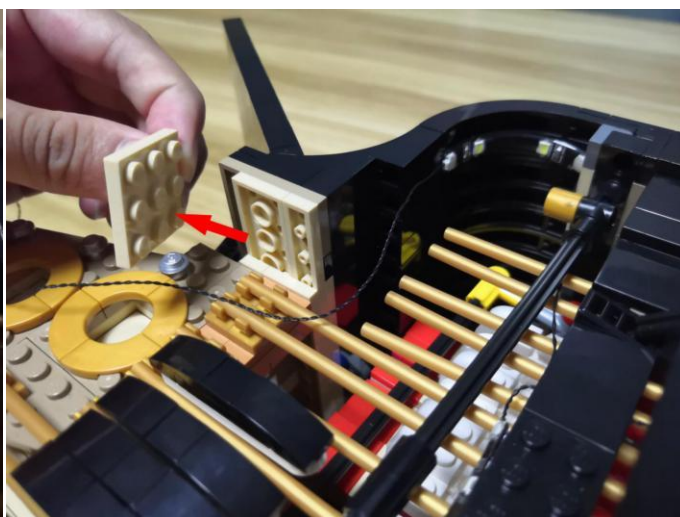
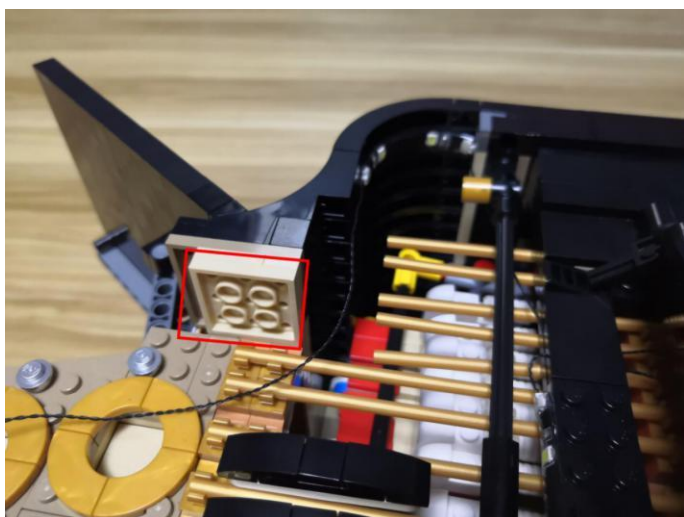
53. Connect the following connecting cable to the strip light as per below.



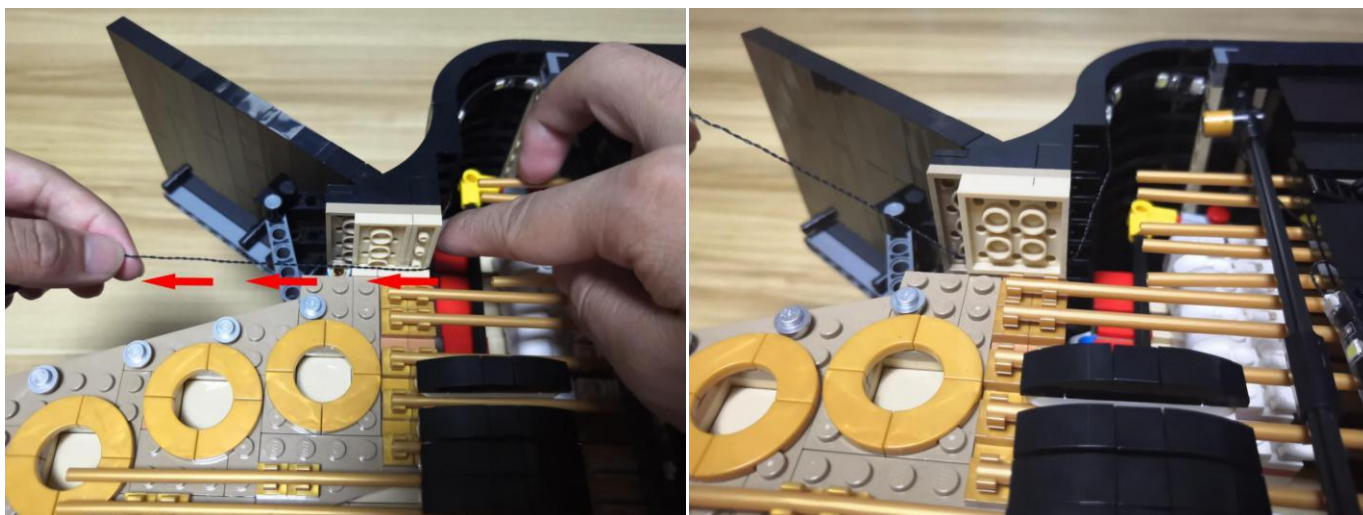
54. Stick the strip light to the following place.



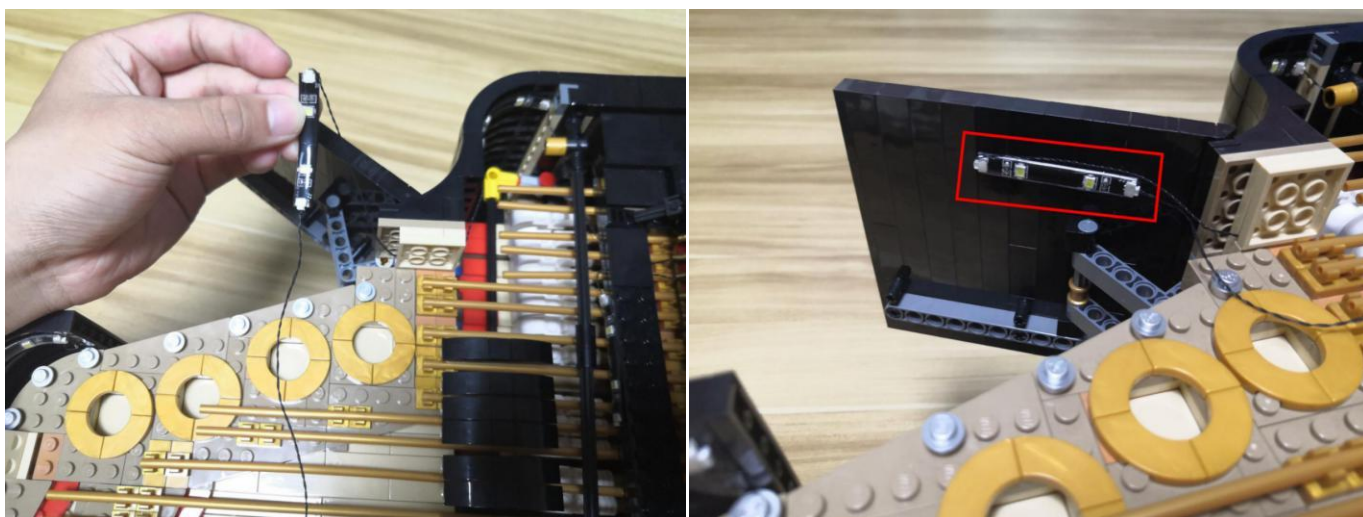
55. Remove the following beige piece.



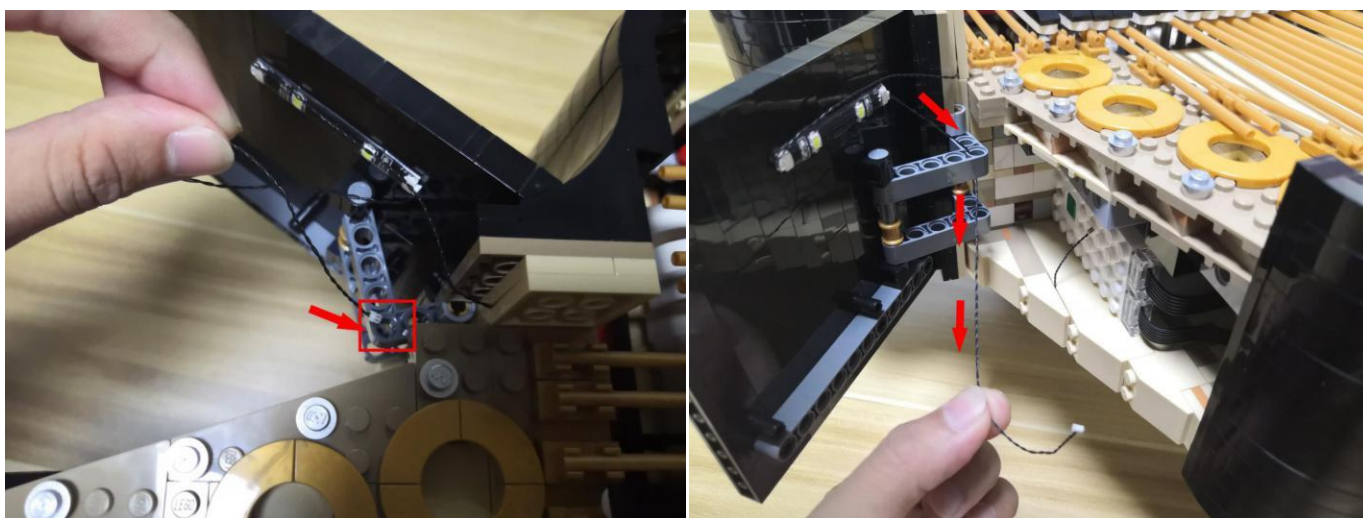
56. Place the cable as per below, reconnect the beige piece.



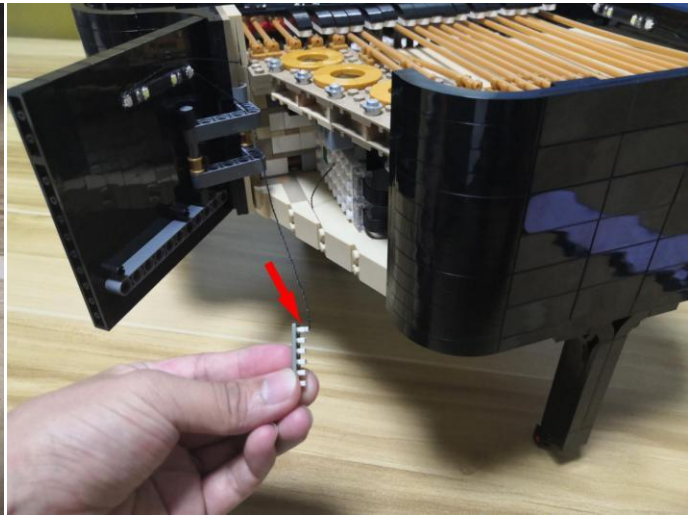
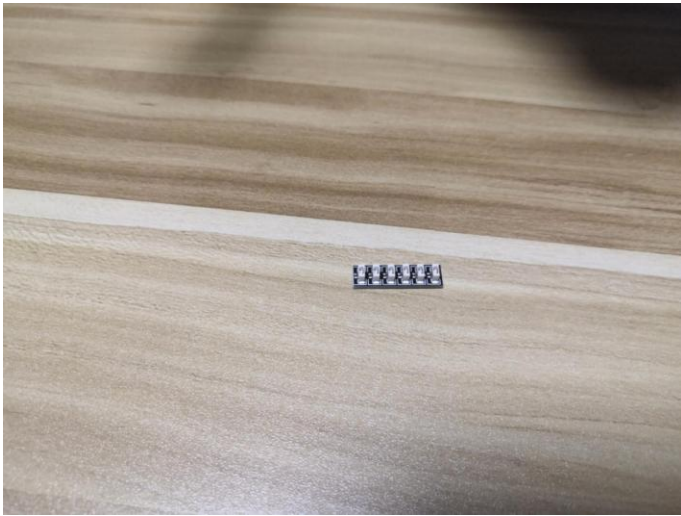
57. Stick the next strip light at the side door, pull the cable rightward.



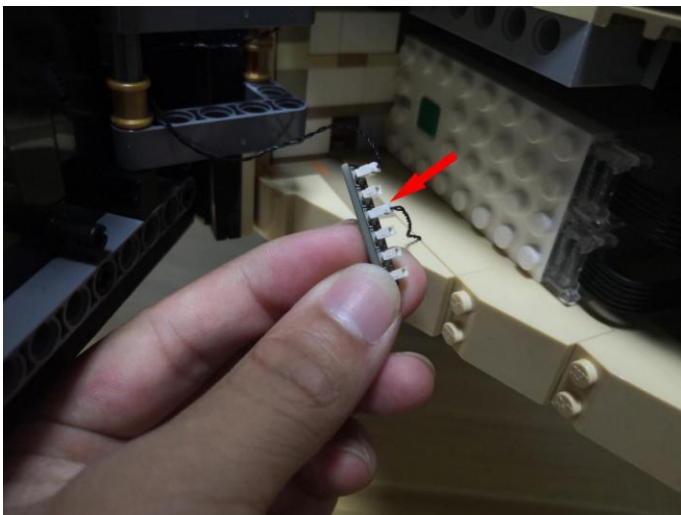
58. Turn to the side, thread the cable through the following hole.



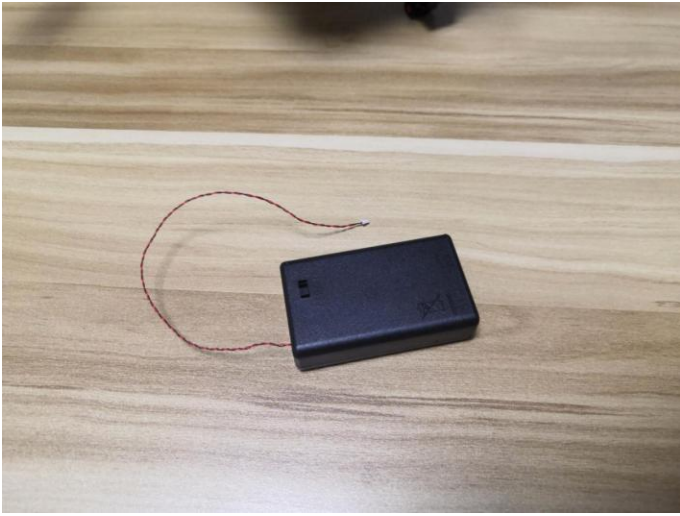
59. Take a 6-port expansion board, connect the cable we threaded before to it, connect the following 5cm connecting cable to it.



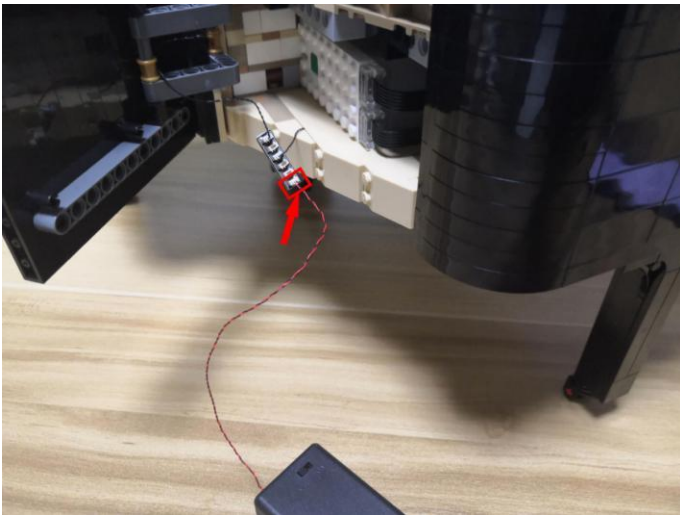
60. Connect the cable from the following beige piece to the expansion board.



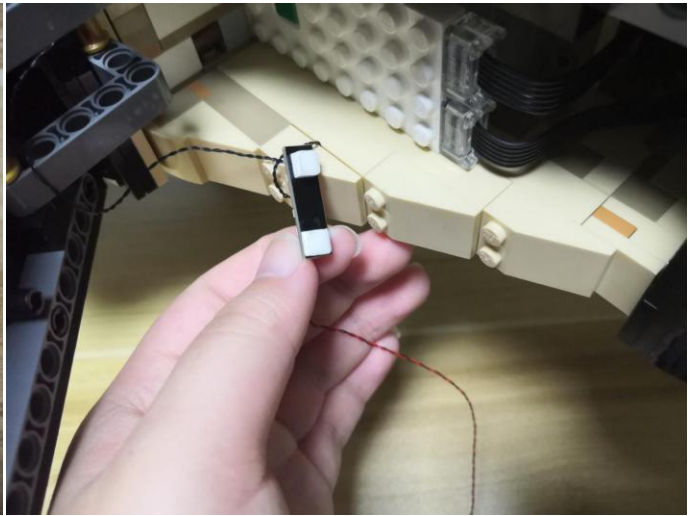
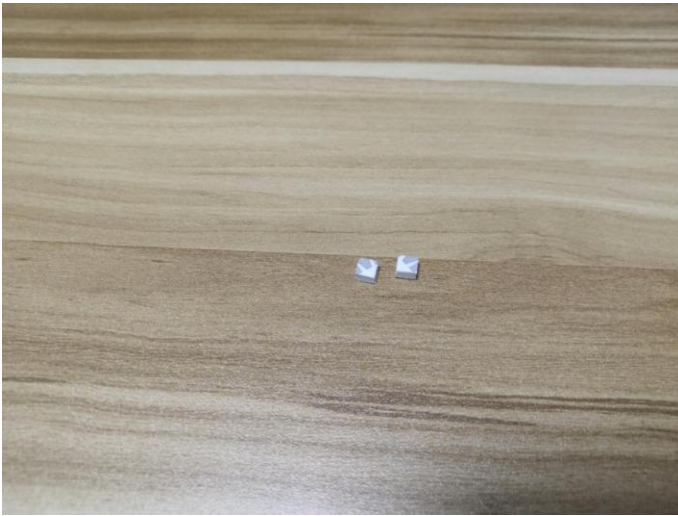
61. The AAA Battery Box does not contain batteries, please buy three AAA batteries in the nearest store and install it in the AAA Battery Box.



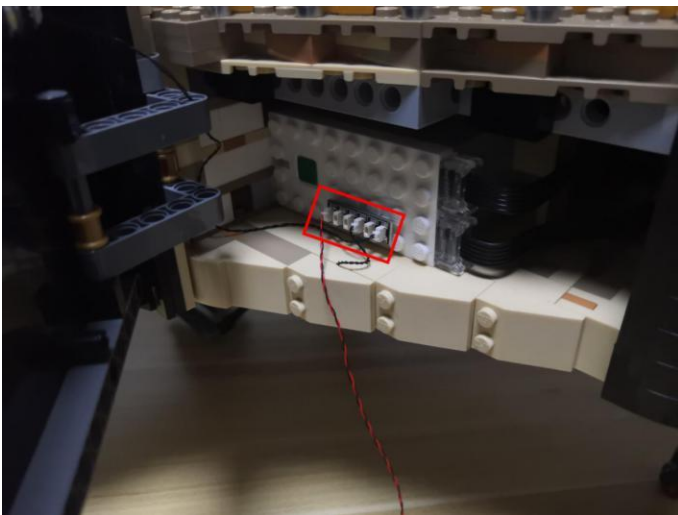
62



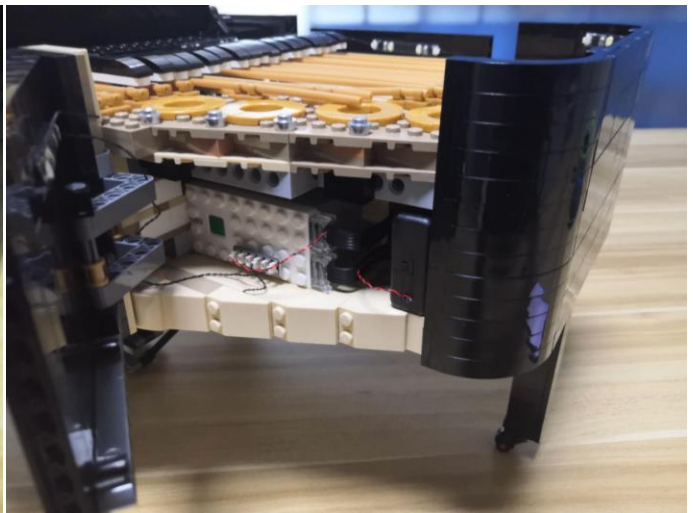
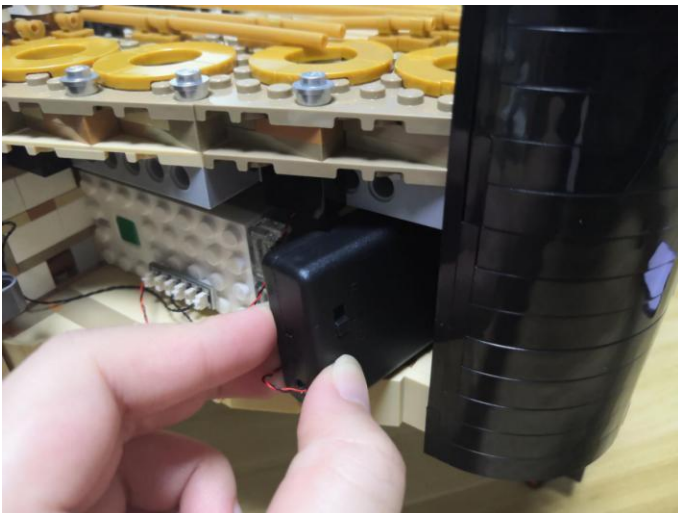
63. Take 2 adhesive squares, stick them to the back of the expansion board.



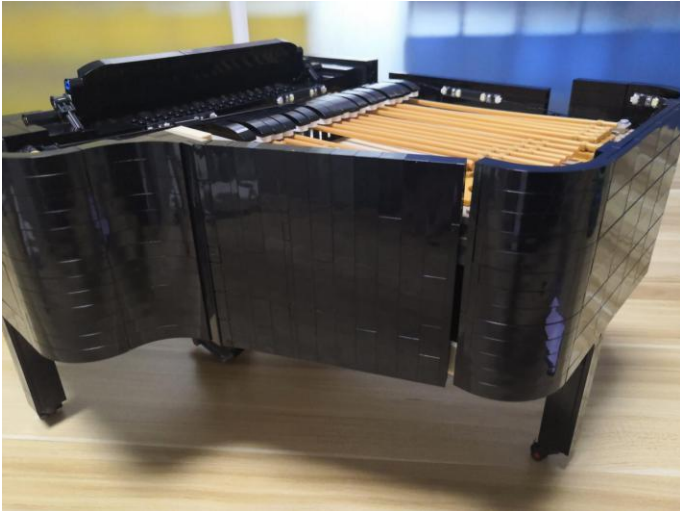
64. Stick the expansion board to the following place.



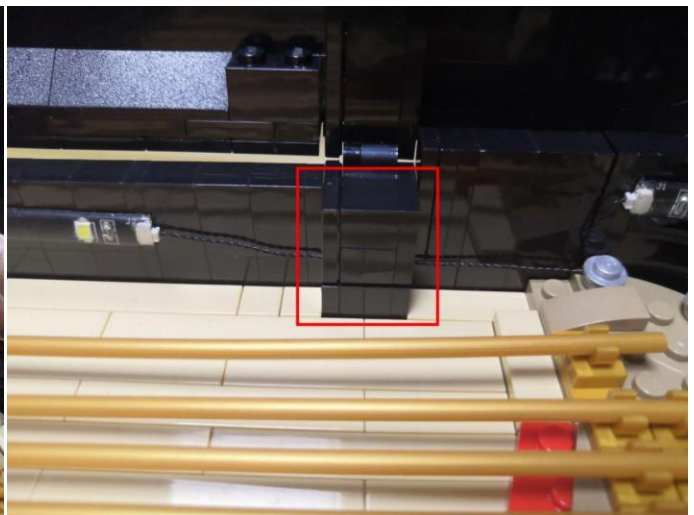
65. Place the battery pack at the following place.



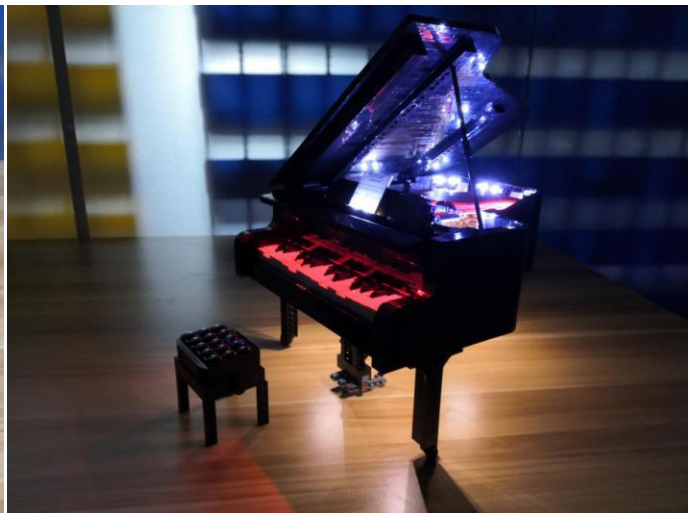
66. Close the side door.



67. Reconnect the roof, thread the cable through the middle of the joint pin as per below.



68. This completes installation of this LED Lighting Kit. ENJOY! (If you don't want to use it for a long time, you can turn the power off.)



69.If you want to keep the lights on, you can use the USB cable.

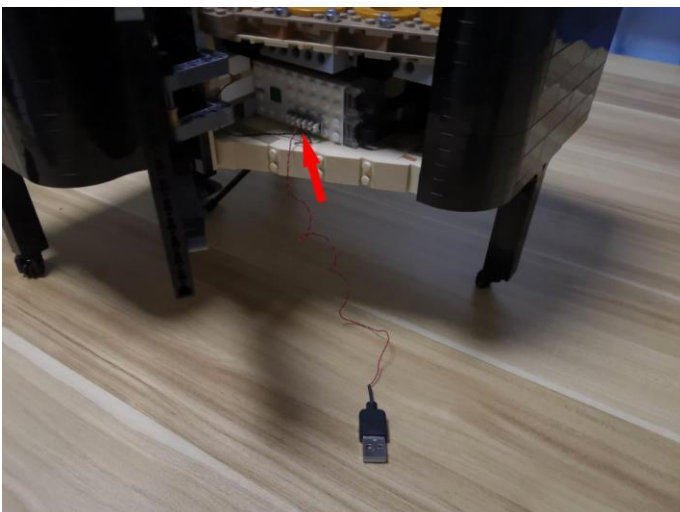
Firstly, disconnect the battery pack.



70.Take the USB cable.



71.Connect the USB cable to the expansion board.



72. Close the side door.



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

