Grand Piano 21323 Light Kit

Thank you for choosing Vonado lighting products. We are committed to LEGO product study and lighting development, and we're always trying our best to provide LEGO fans with the best products and the best installation ideas.
Must be careful observation, imagination can be infinitely.
We provide basic parts to support your imagination.
DO IT YOURSELF .that's what LEGO is .

As always, Lego has been adhering to the DIY philosophy from product selection, research and development to sales. Consumers buy the parts, you will assemble them by yourself, and you can experience every step from picking up the first piece to installing the last one. Besides, LEGO has different answers for the installation form and method of each part. Vonado lighting also does not want to kill your unlimited creativity, we will try our best to make products with high variability, high playability and unlimited play. If you have any dissatisfaction or your own ideas on the parts such as the color of the lights, the length of the cables, the installation position of the product, and the final effects of each module, you can make your own arrangement, and we will cooperate with you to replace or repurchase.
LETS MOVE!

Package contents：

- 3 x LED Warm White Soft Strip Lights
- 9 x LED White Soft Strip Lights
- 4 x 5cm Connecting Cables
- 9 x 15cm Connecting Cables
- 2 x 15cm RGB Connecting Cables
- 1 x 30cm RGB Connecting Cable
- 3 x RGB Soft Strip Lights
- 1 x 6 -port Expansion Board
- 1 x AAA Battery Pack
- 1 x USB Cable
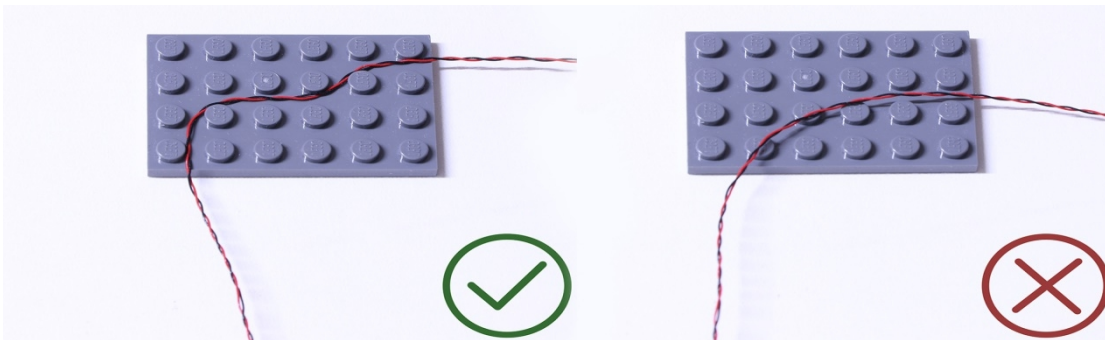- 1 x RGB Remote Control Switch Board

Extra pieces

Note:

Place wires on the surface or under the building blocks.
The wire can be place between the building blocks or under the block, but they should be placed between the studs correctly.


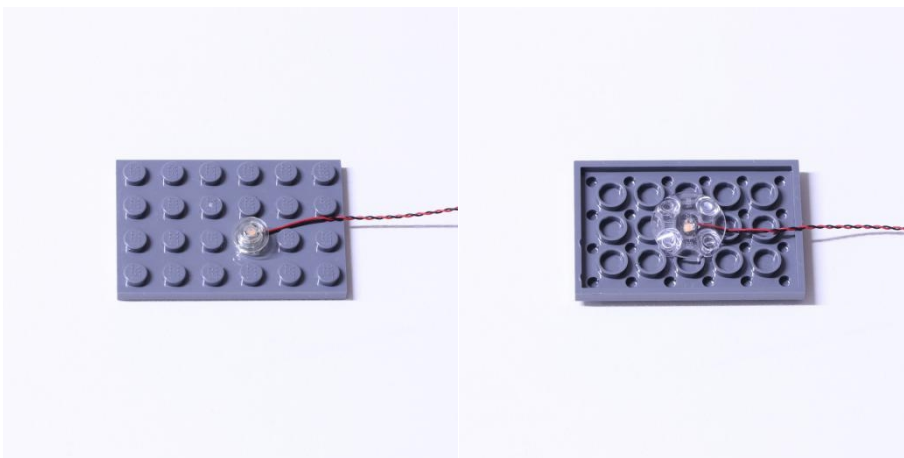Insert the connectors to the ports.

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.
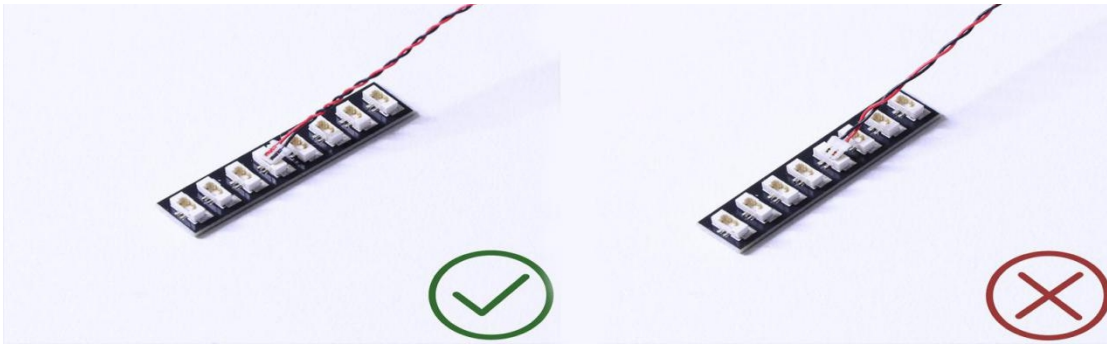
At this point, use the tweezers to straighten the bent pins.
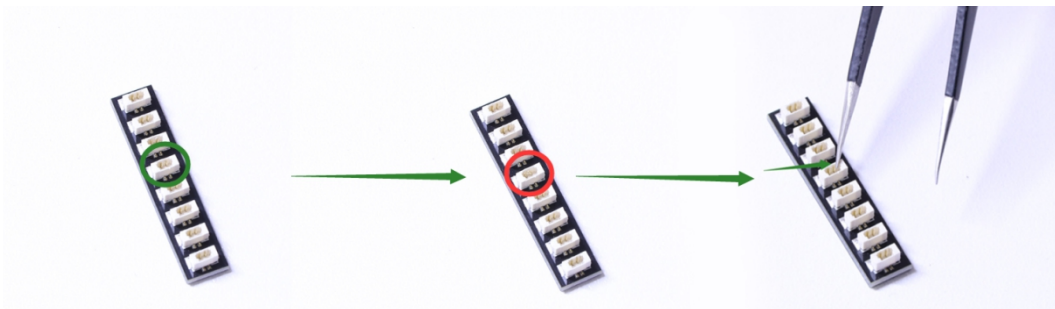
When installing dot lights, make sure they are correctly placed (Yellow LED package is exposed). You can put they either on the top of the studs or between studs.

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.
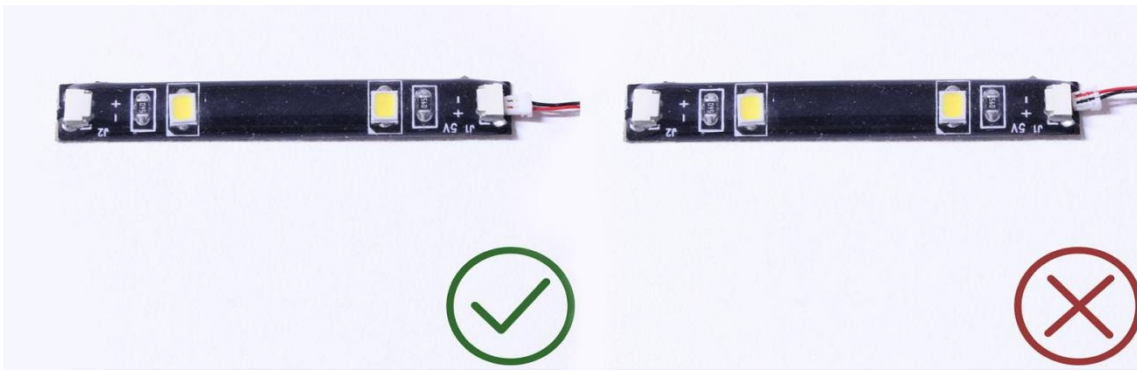
Finally, please pay attention to the positive and negative terminals of the battery when installing the battery case.
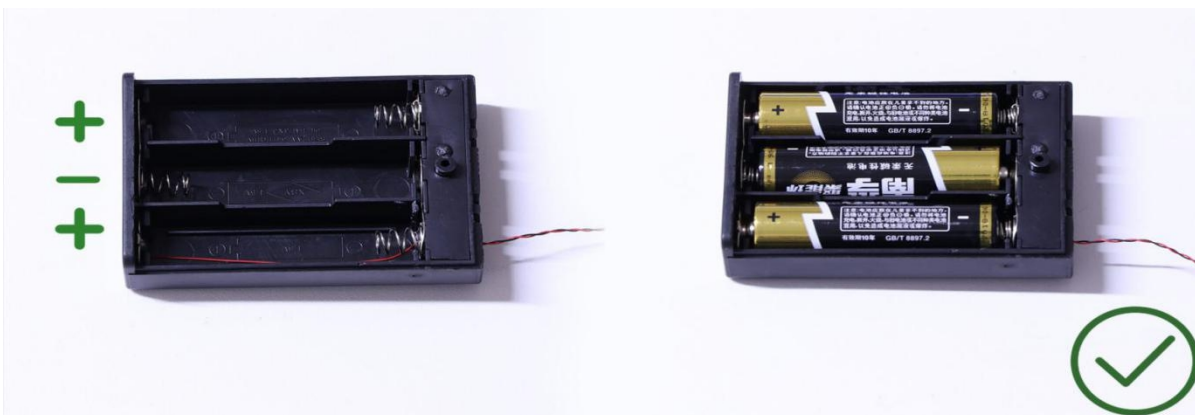
OK, Let's Begin!

Instructions for installing this kit：

Piano 21323 Lighting Kit, 12 bags in total, 11 bags with labels, 1 bag without label, as per below:

Power supply：AAA Battery Pack and the USB Cable（self-contained battery, power bank or the mobile phone charger）.

Firstly, take the battery pack (with batteries installed) or the USB cable (connected to the power bank or the mobile phone charger)， connect it to the expansion board to verify all the lights one by one.

After the verification, disconnect the lights, put them back to the package.
（note: put the lights back to the bag after verification of lights in the same bag is done, then, continue to verify the lights in another bag.）

OK, Let's Begin! （you can use the tweezer if necessary.）
（Tips: the tweezer is sharp, you should be careful when using it, do not hurt yourself or scratch the pieces; be gentle and do not wear the cables.）

Instructions for installing this kit：

OK, Let's Begin!

Take the piano, disconnect the following 2 bolts underneath it.
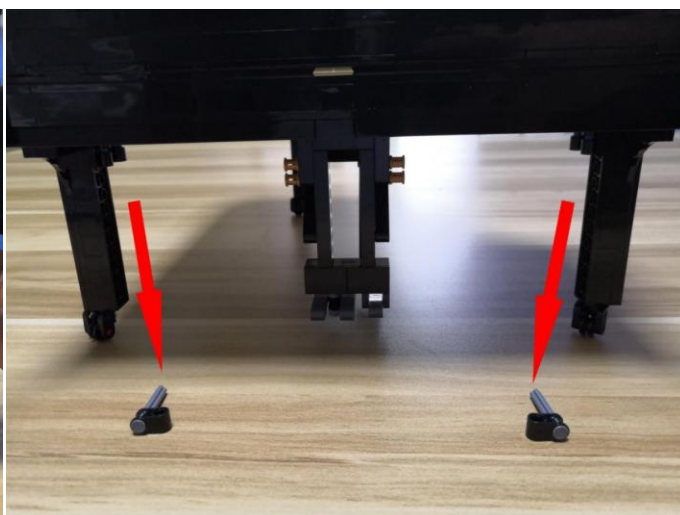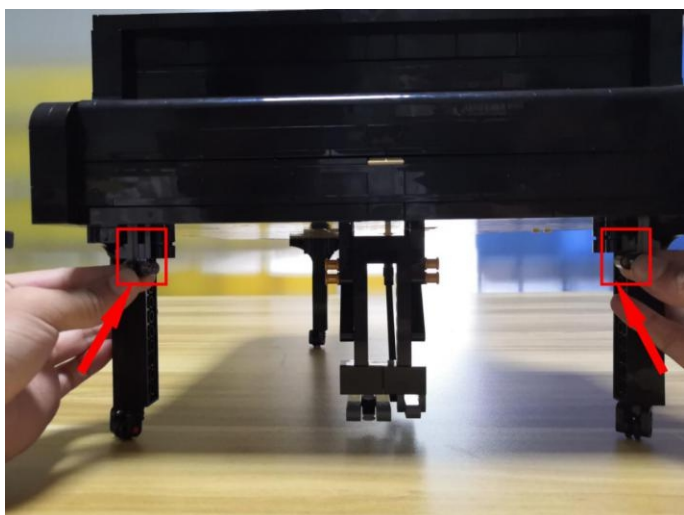
Remove the following piano keyboard and the plate.
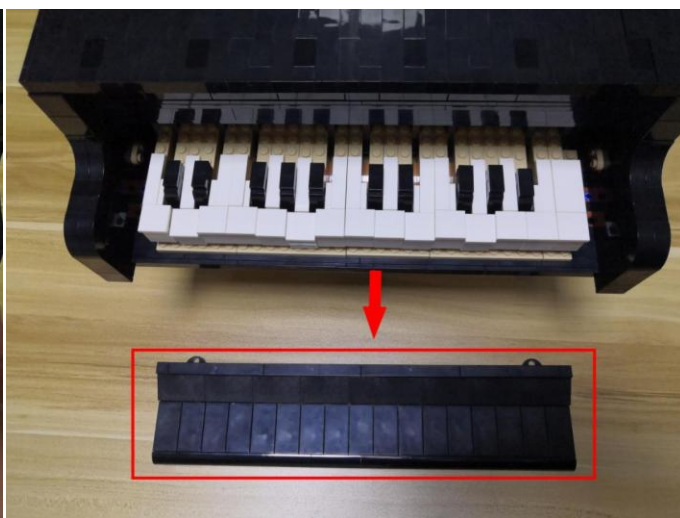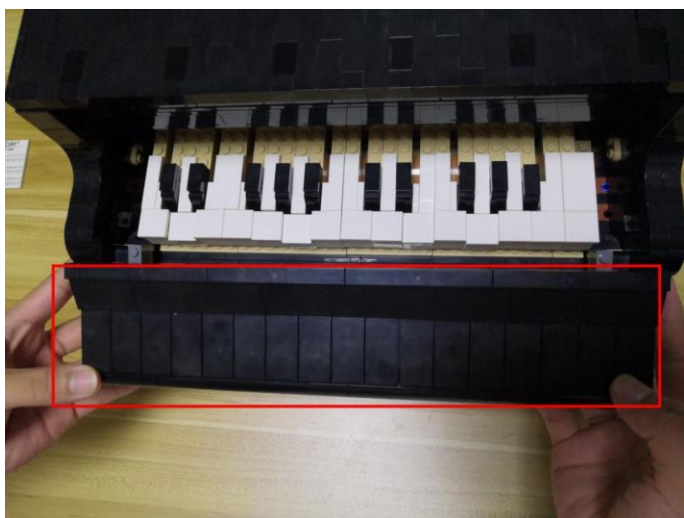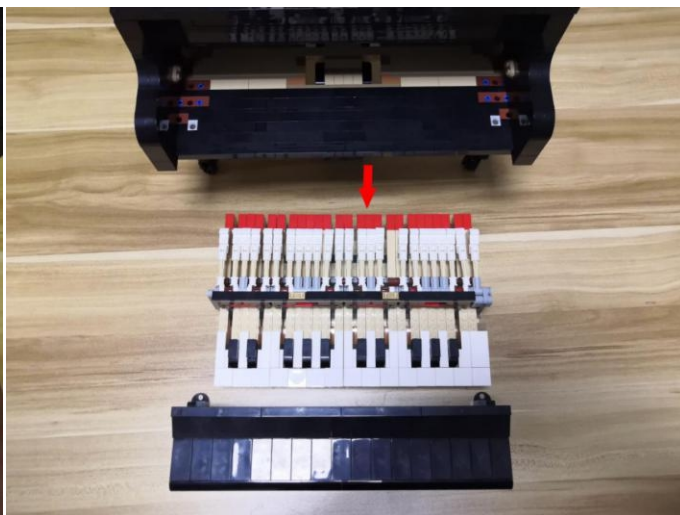
Take 3 RGB soft strip lights, two 15cm RGB connecting cables, a 30cm RGB connecting cable, assemble them as per below.
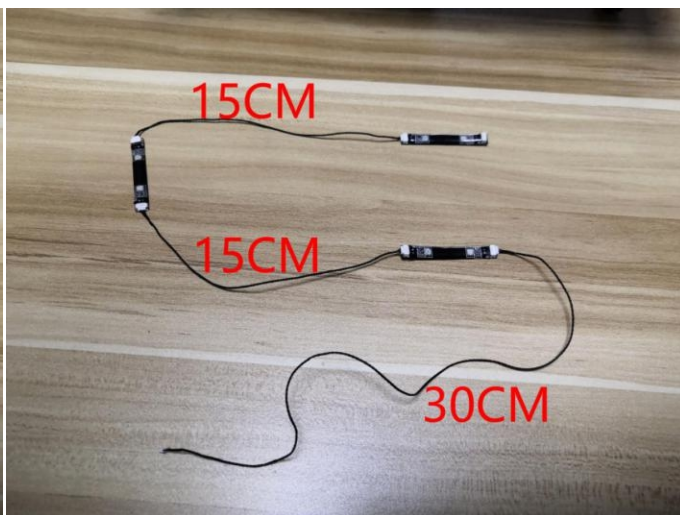
Take the plate, lift it as per below.

Stick a strip light to the following place on the plate.
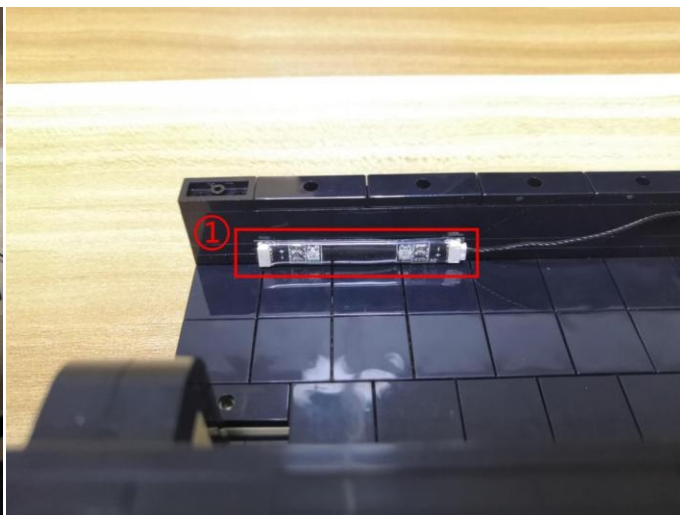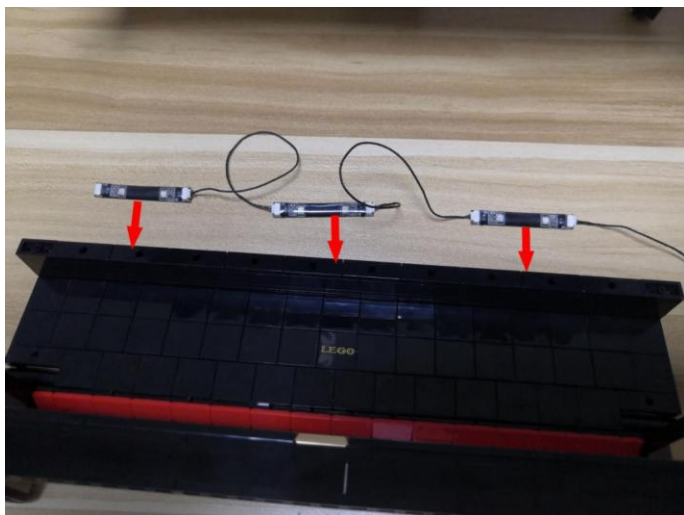
Stick the second strip light at the middle place, wind excess cable and press it underneath the strip light.

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

Disconnect the following 3 black pieces.

Thread the cable alongside the base, place it in between the beige piece and the black piece as per below.
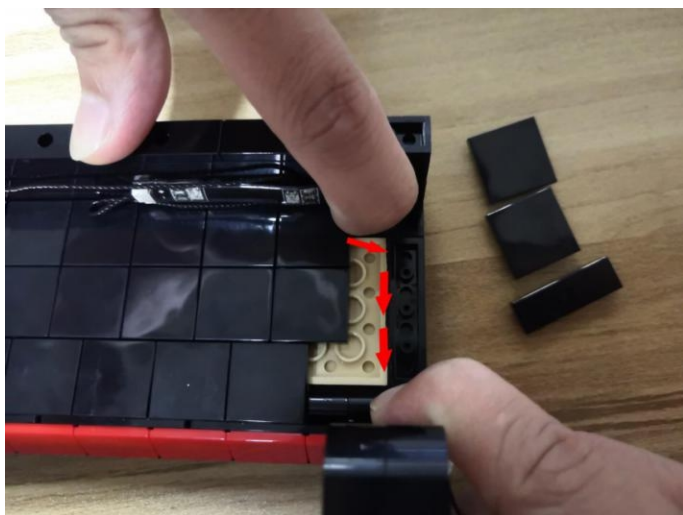
Reconnect the black pieces.
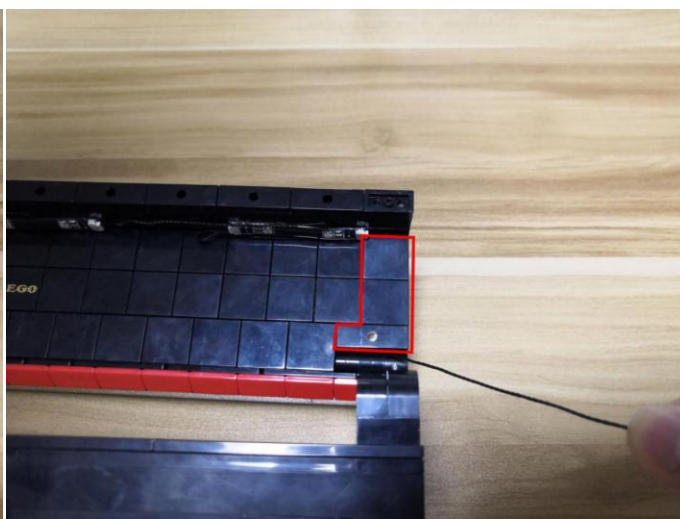
Pull the cable out behind the following plate.
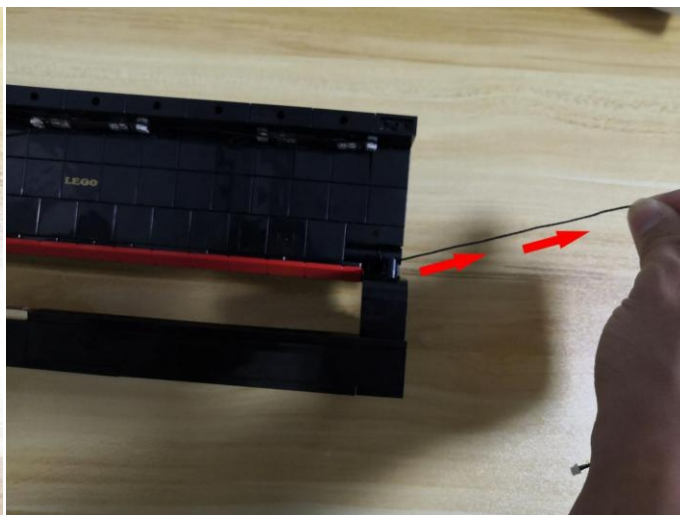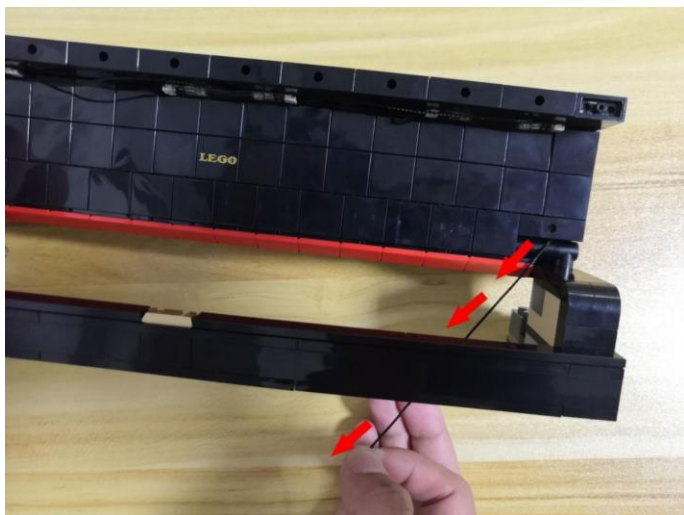
Thread the cable through the following space underneath the piano.
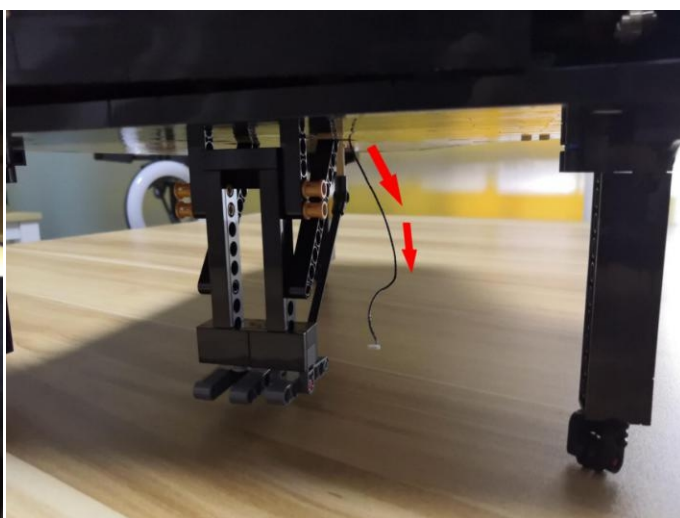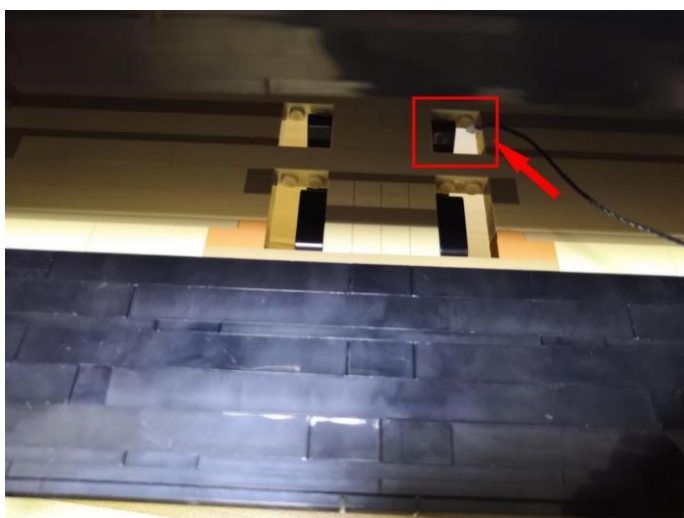
Reconnect the keyboard.

Pull the cable underneath the keyboard to the right side.
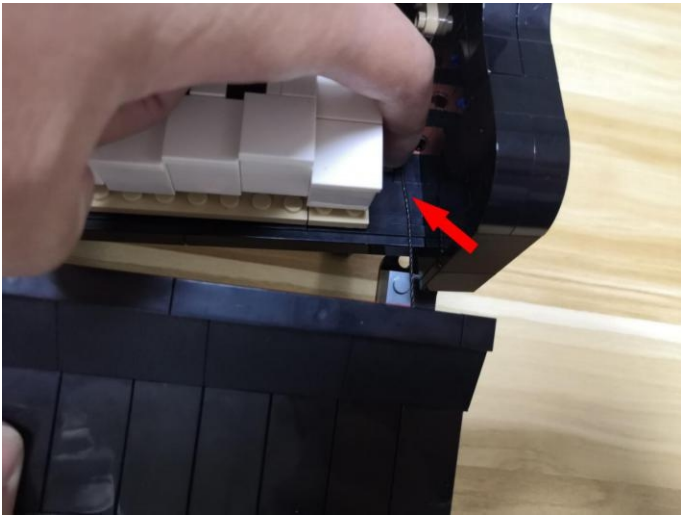
Reconnect the following plate (tighten the cable underneath slowly).
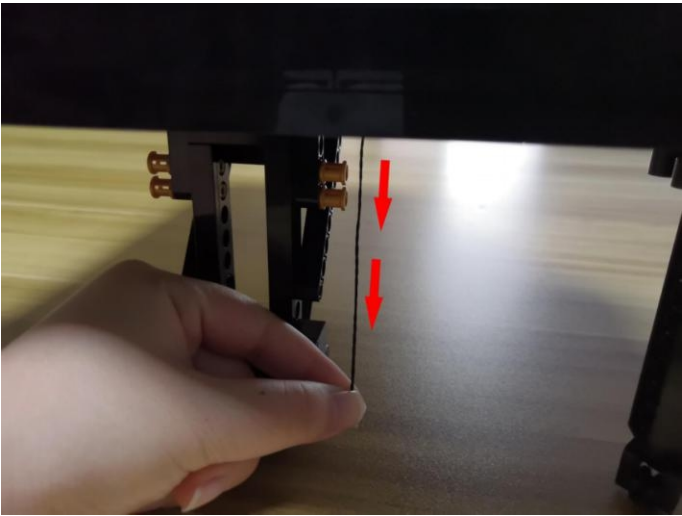
Reconnect the 2 bolts to secure the keyboard.
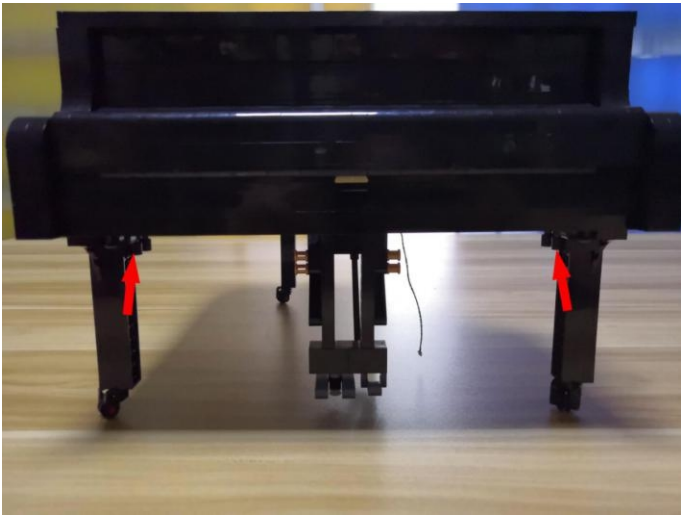
Disconnect the roof, turn the piano over to make the bottom face us.
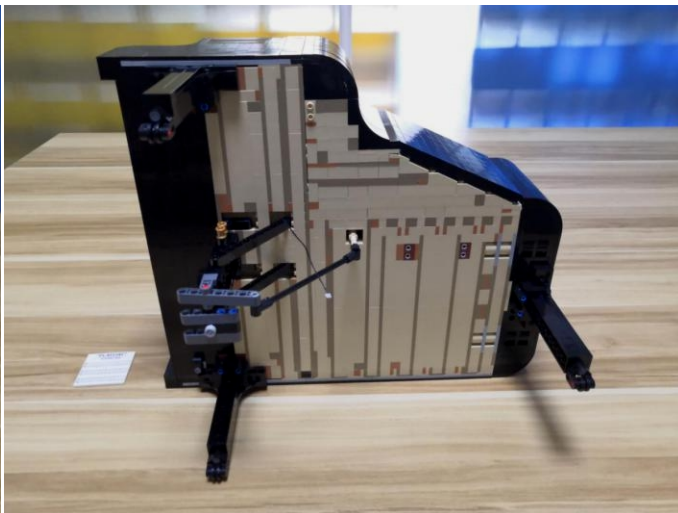
Take the RGB Remote Control Switch Board, a 5cm connecting cable, 2 adhesive squares.
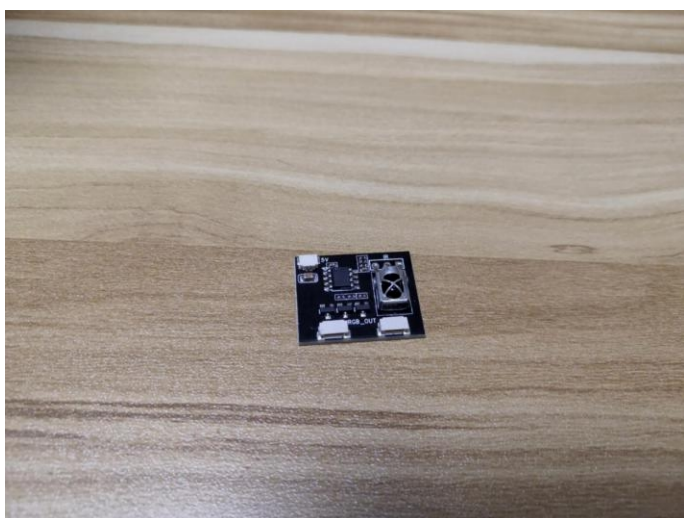
Connect the cable underneath the piano to the input port on the RGB Remote Control Switch Board
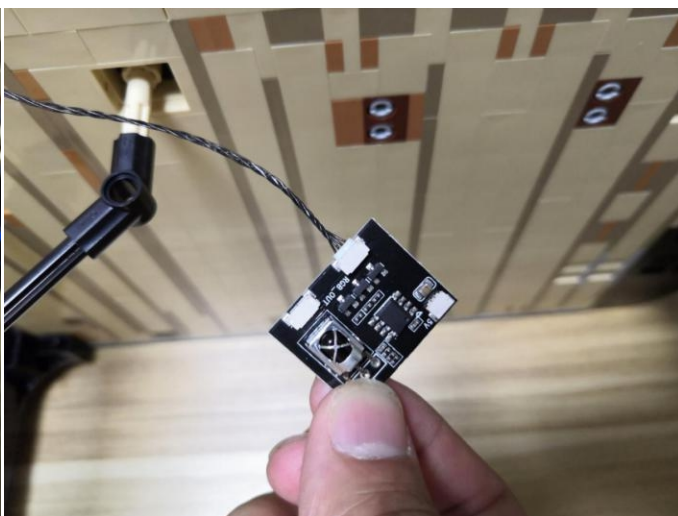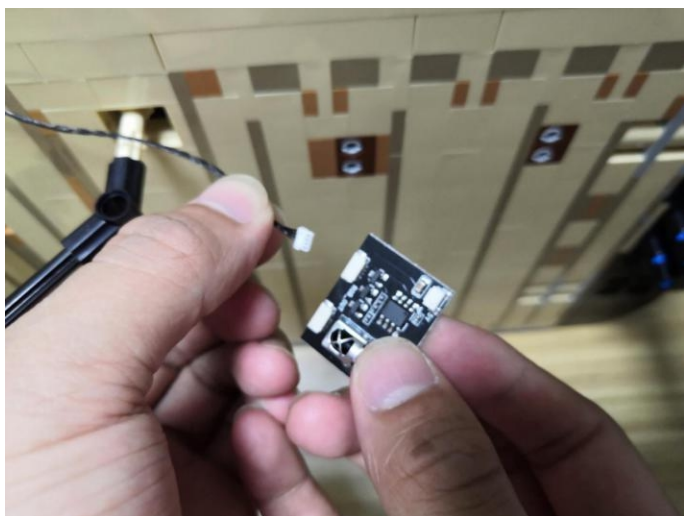
Connect the 5cm cable to the module
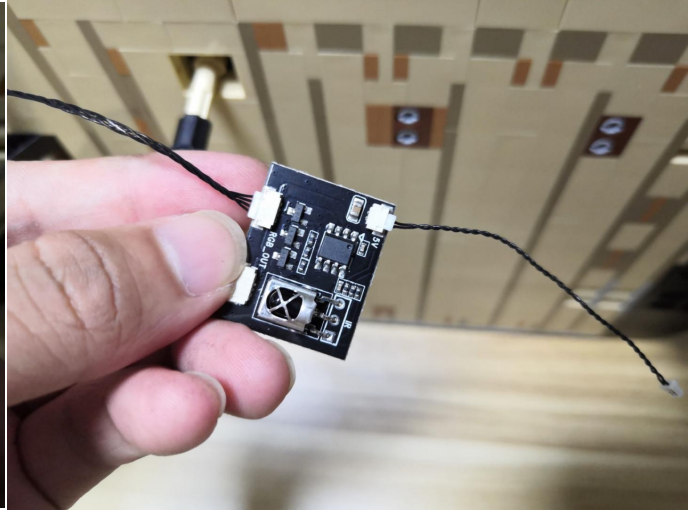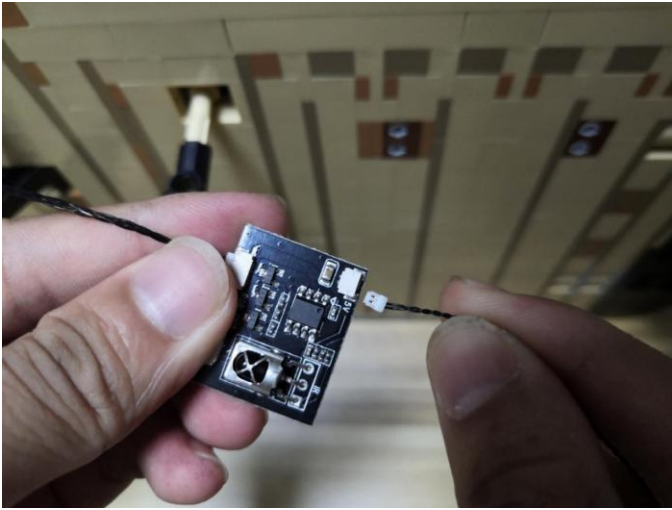
Stick the RGB Remote Control Switch Board to the following place (tighten the cable up).
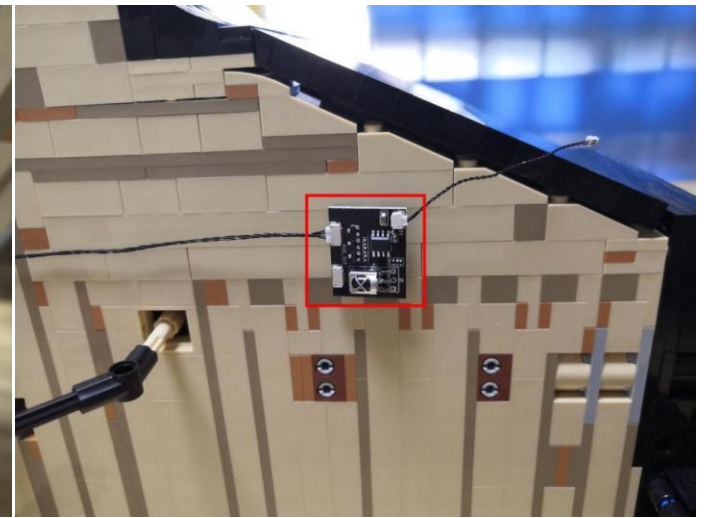
Open the following side plate, disconnect the beige piece.
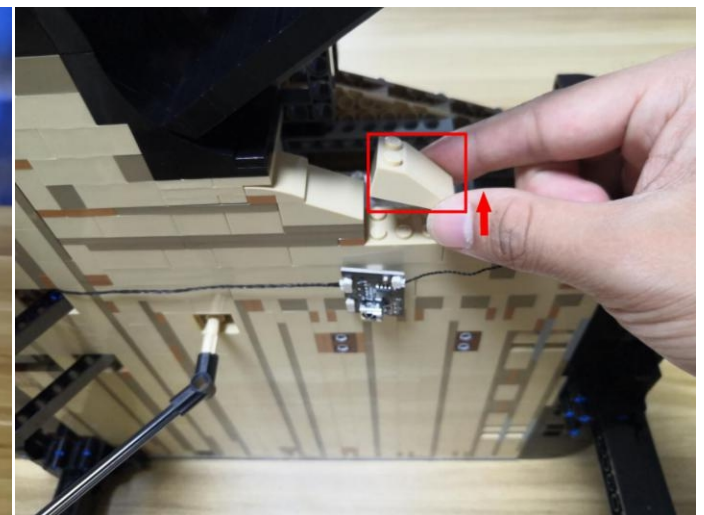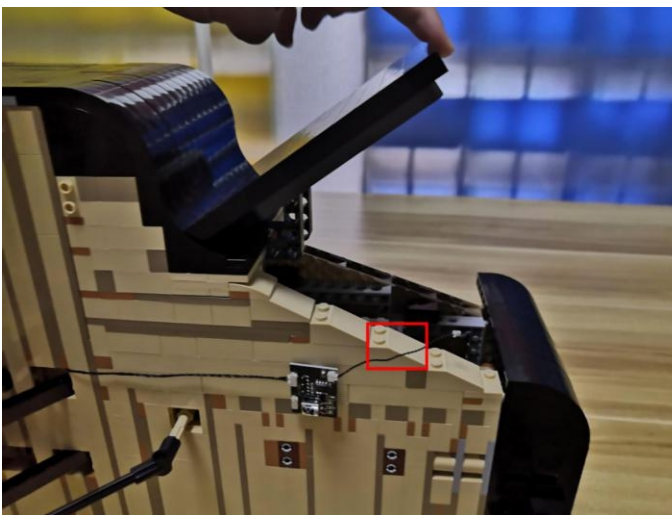
Place the 5cm connecting cable as per below, reconnect the beige piece.
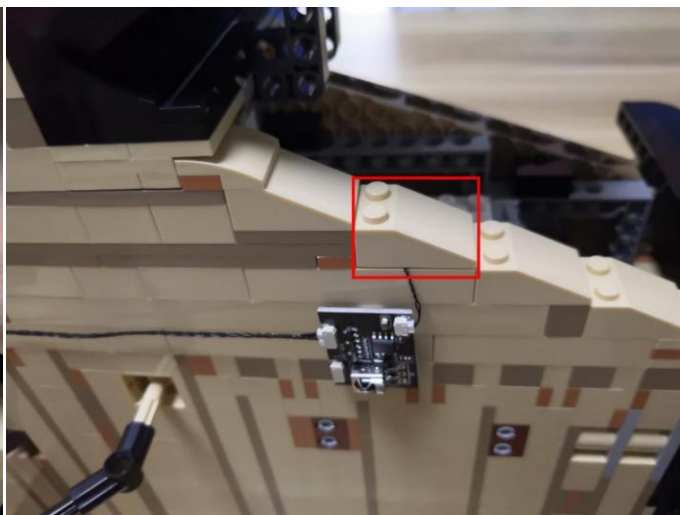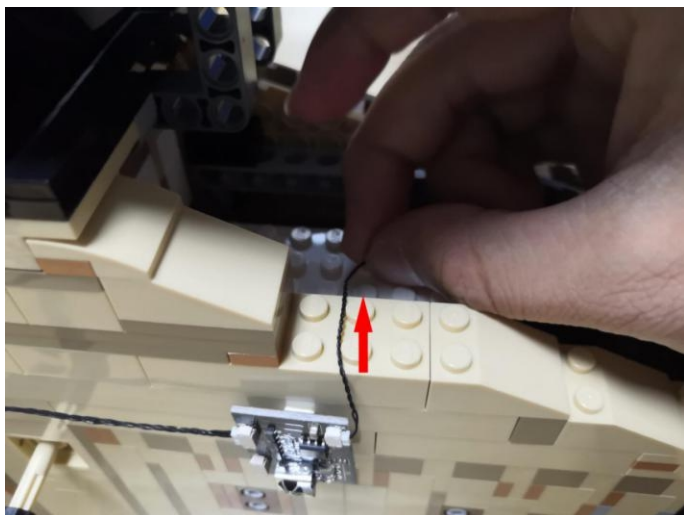
Take 3 warm white strip lights, three 15cm connecting cable, assemble them as per below.
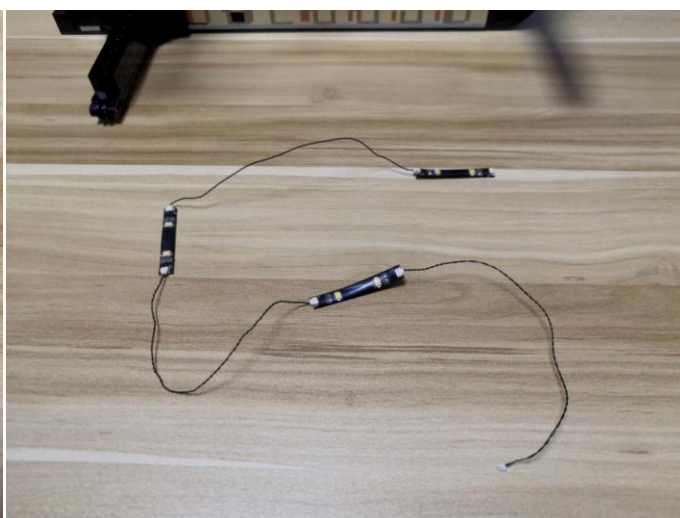
Thread the first strip light through the following space underneath the `support of the pedal.
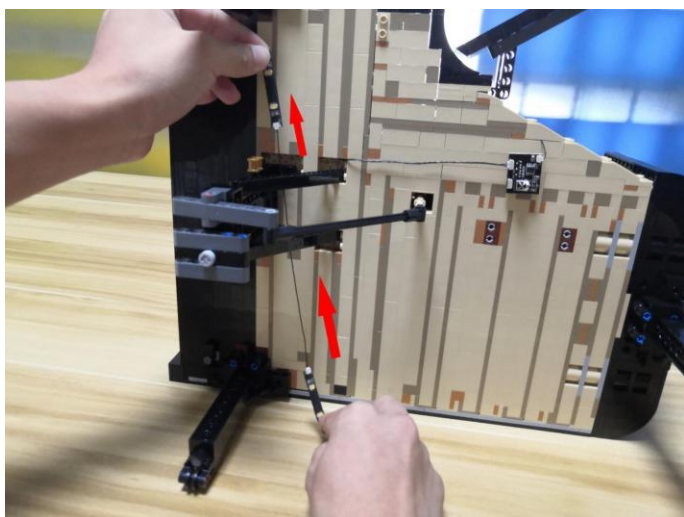
Stick the strip light to the following place.

Tighten up cable between two strip lights, stick the second strip light to the following place.
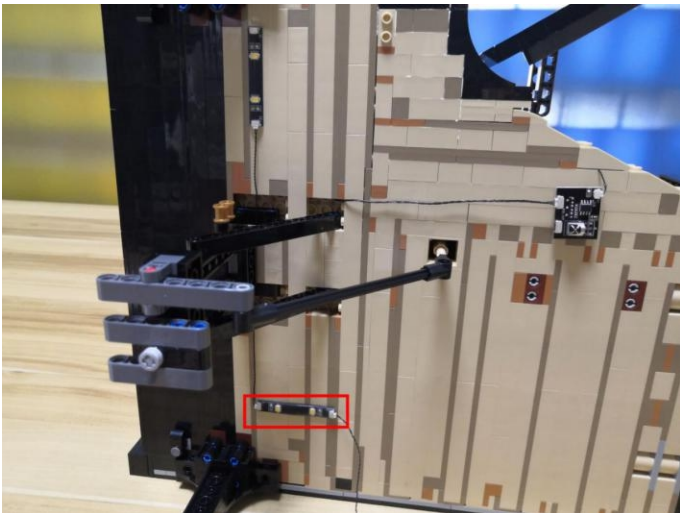
Tighten up cable between 2 strip lights, stick the third strip light to the following place.
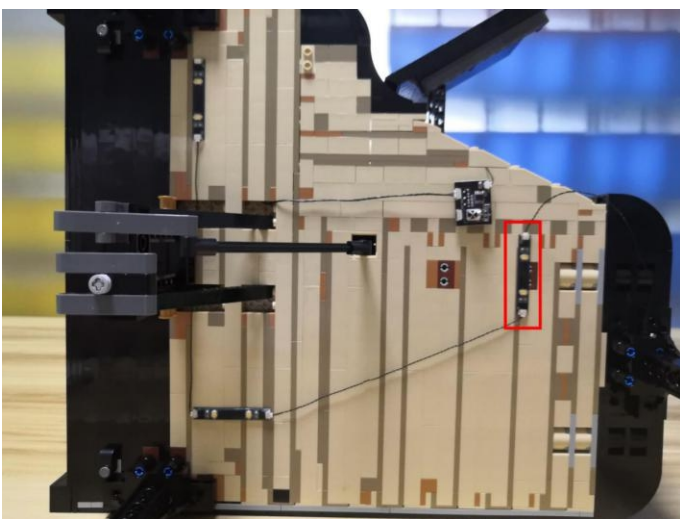
Continue to disconnect the following 2 beige pieces.
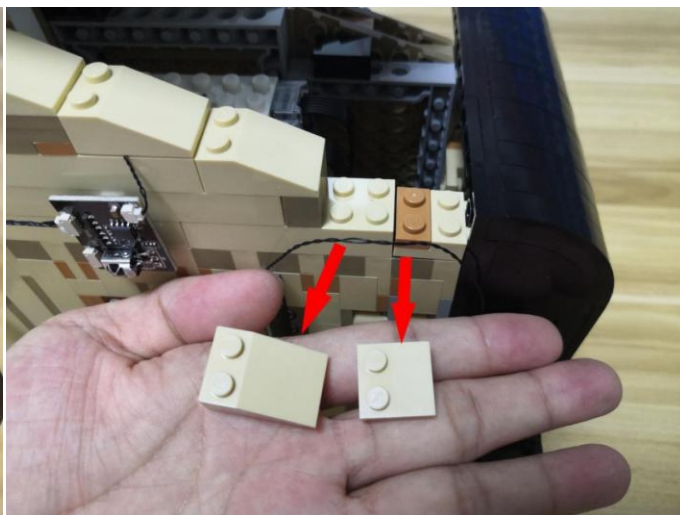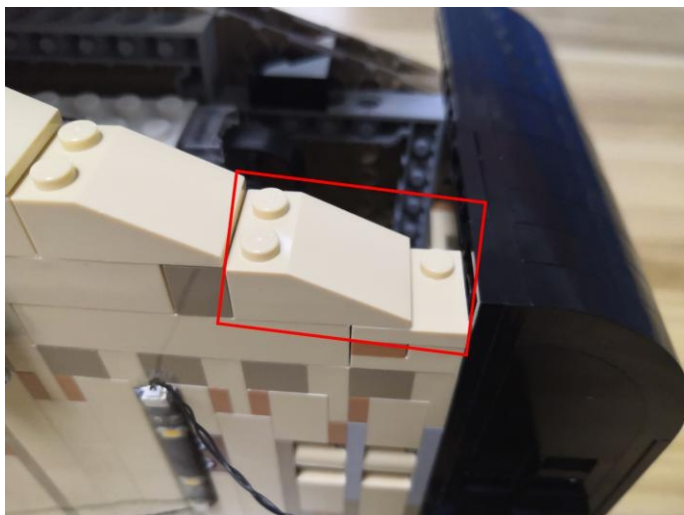
Place the connecting cable alongside the studs as per below.
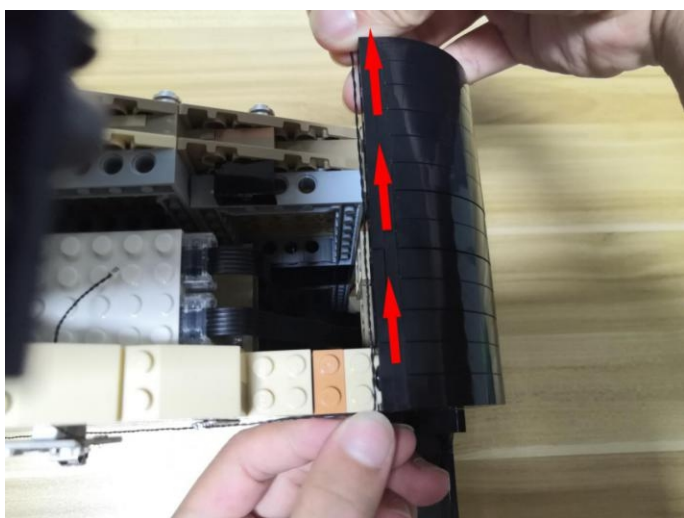
Reconnect the 2 beige pieces.
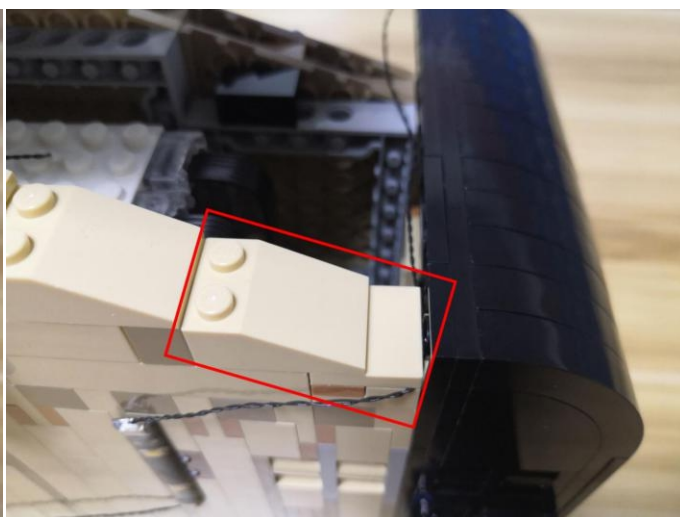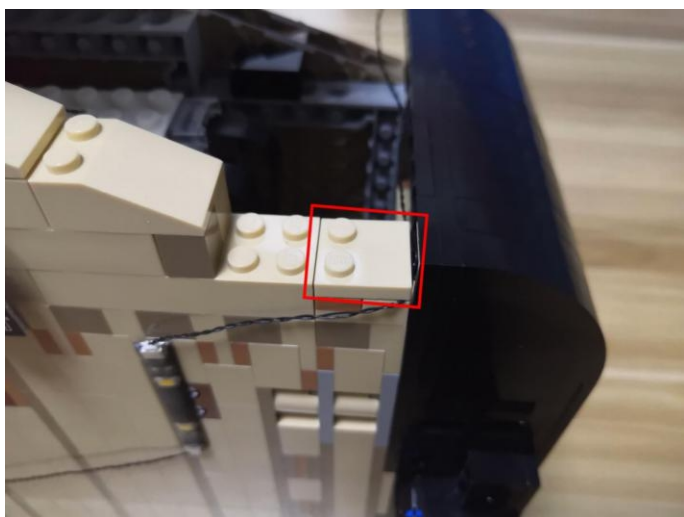
Turn the piano over, take 3 white strip lights, two 5cm connecting cables, a 15cm connecting cable, assemble them as per below.
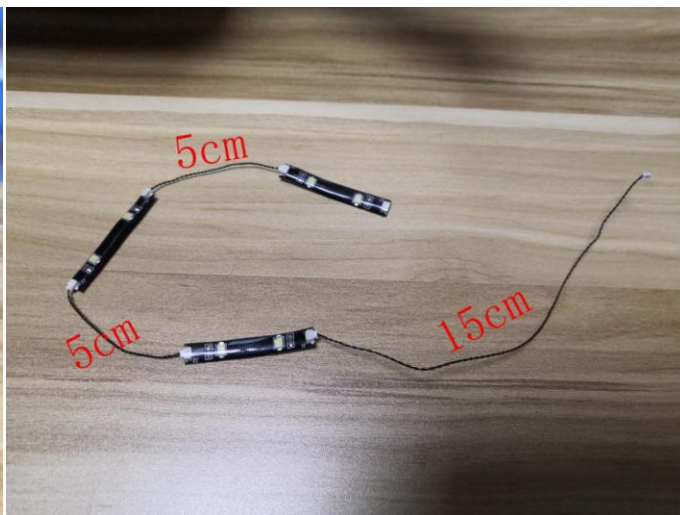
Connect the 15cm connecting cable underneath the piano to the white strip light as per below.
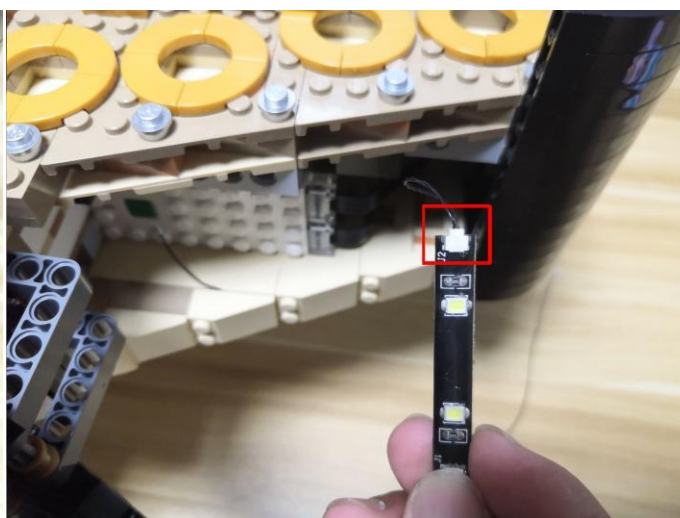
Remove the following 1x8 black piece.
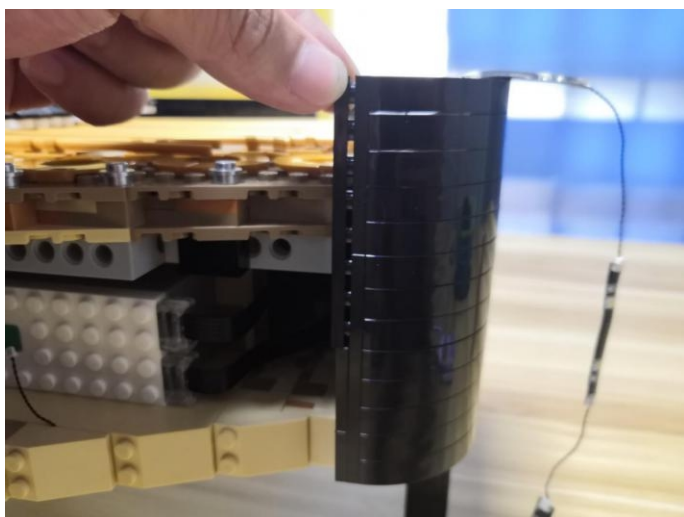
Place the cable as per below, reconnect the black 1x8 piece.
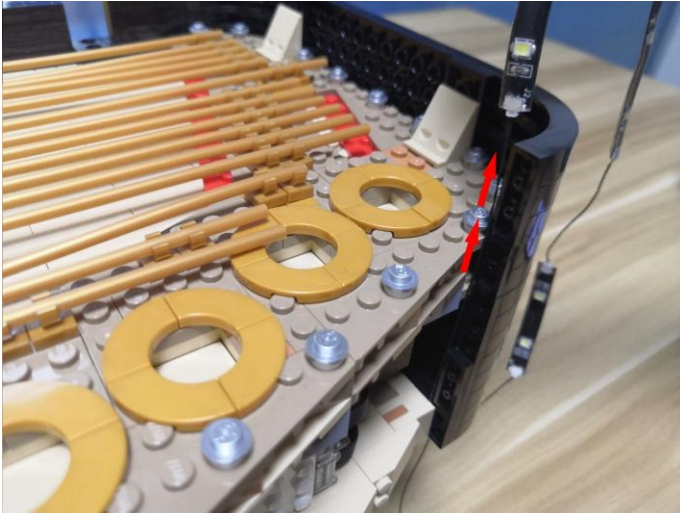
Stick the first white strip light inside the arc corner, stick the second strip light to the middle as per below.
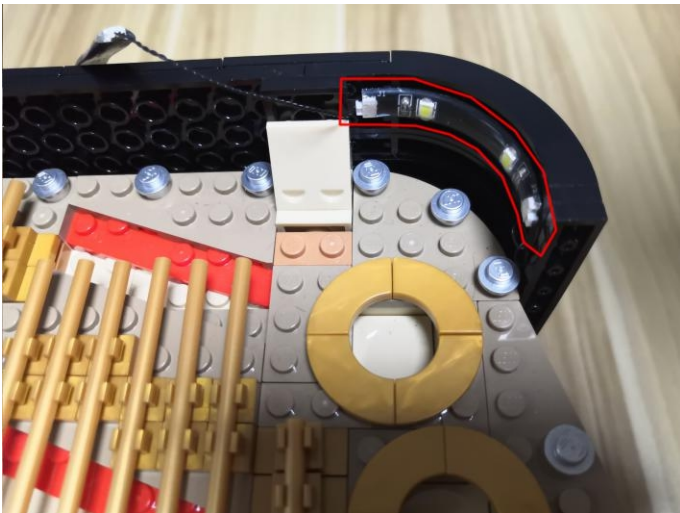
Stick the third strip light at the arc corner, tuck the cable as per below.
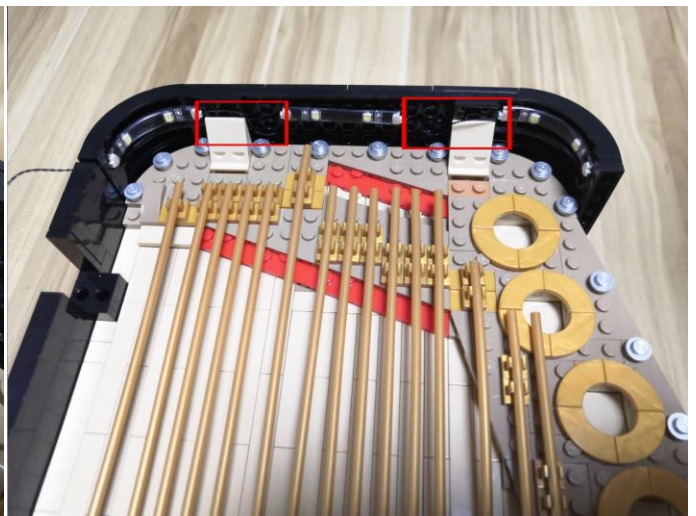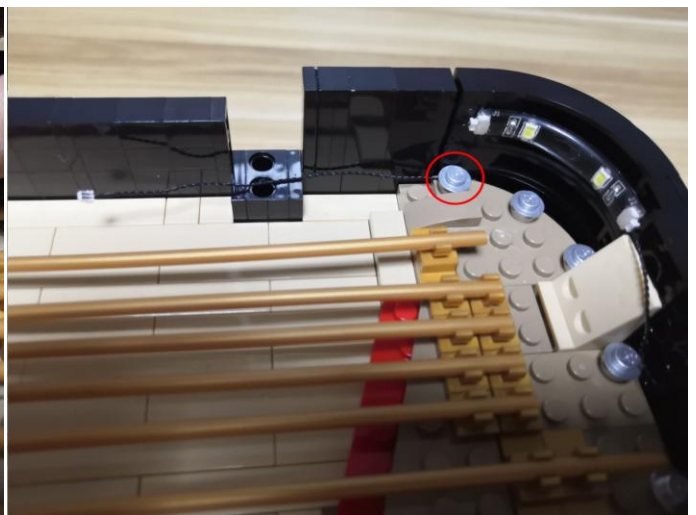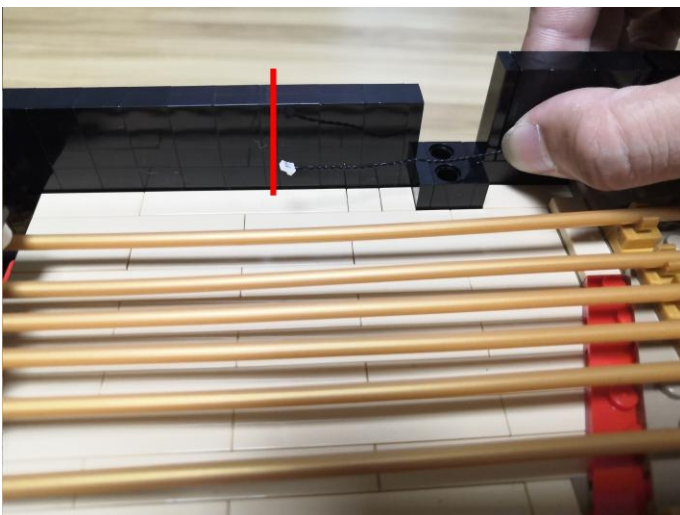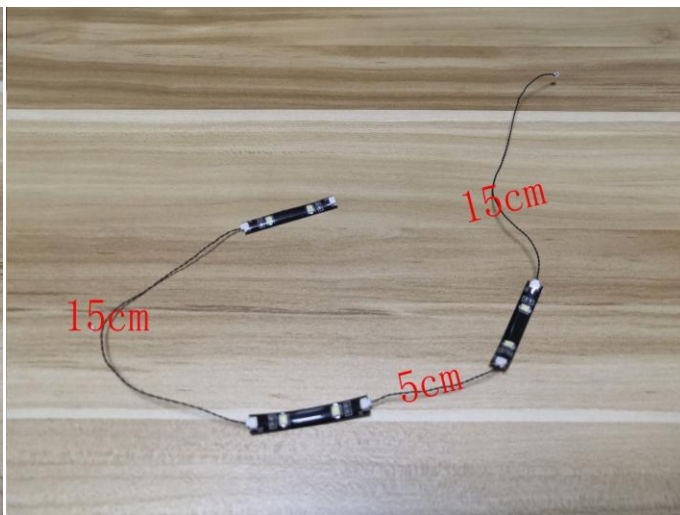

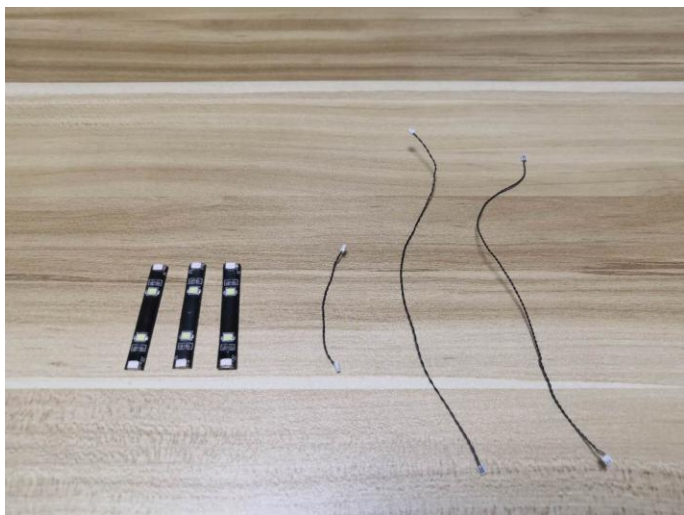Disconnect the following silver round plate.
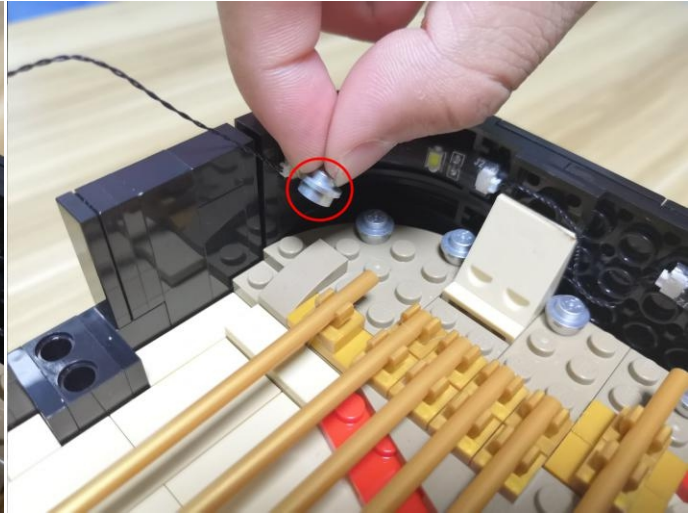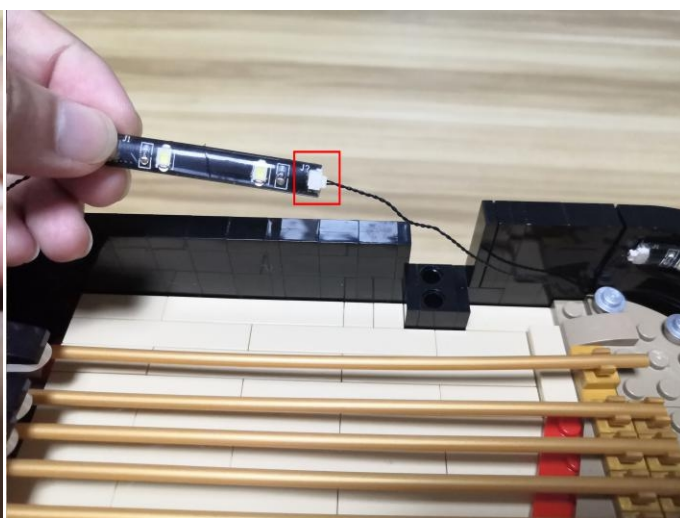
Place the cables as per below.
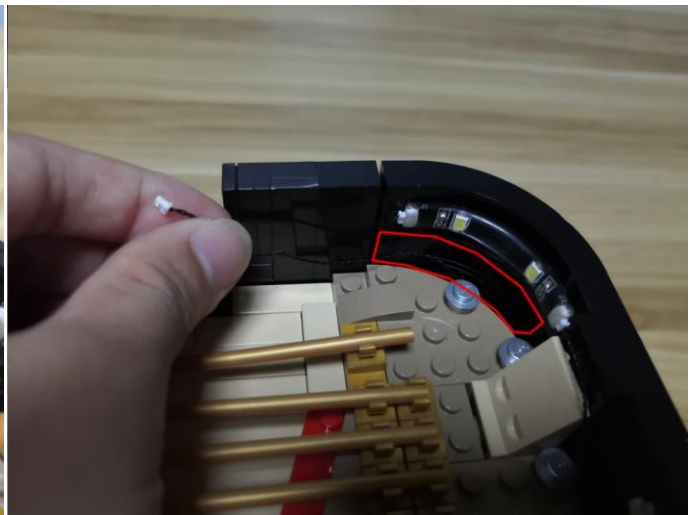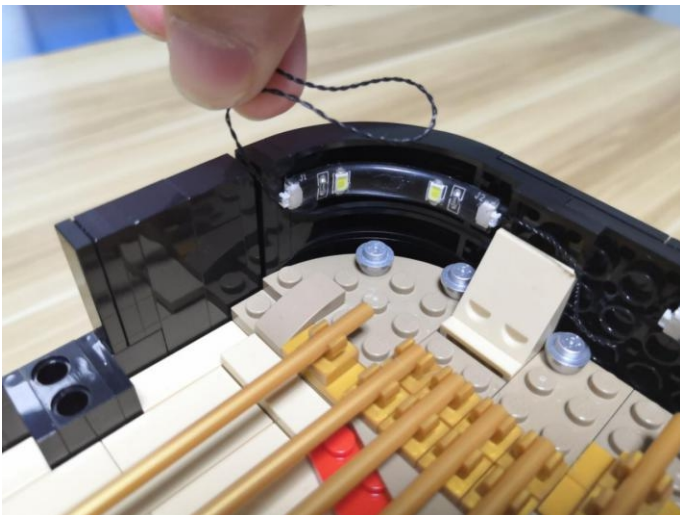
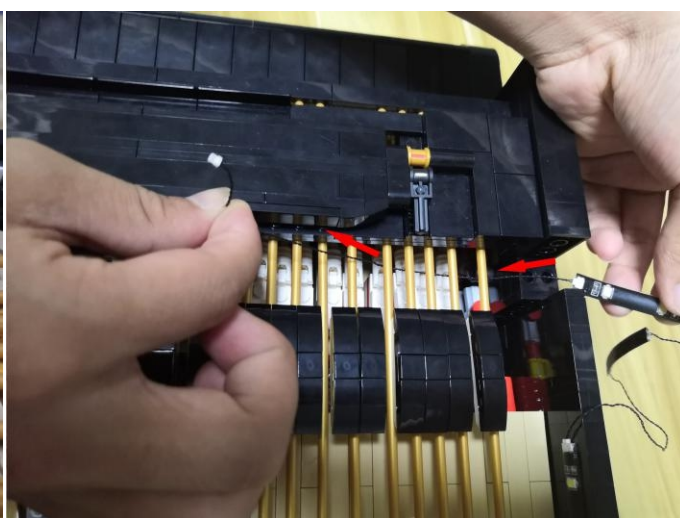Save some length at left side as per below, reconnect the silver round plate.

Take 3 white strip lights, a 5cm connecting cable, two 15cm connecting cables, assemble them as per below.
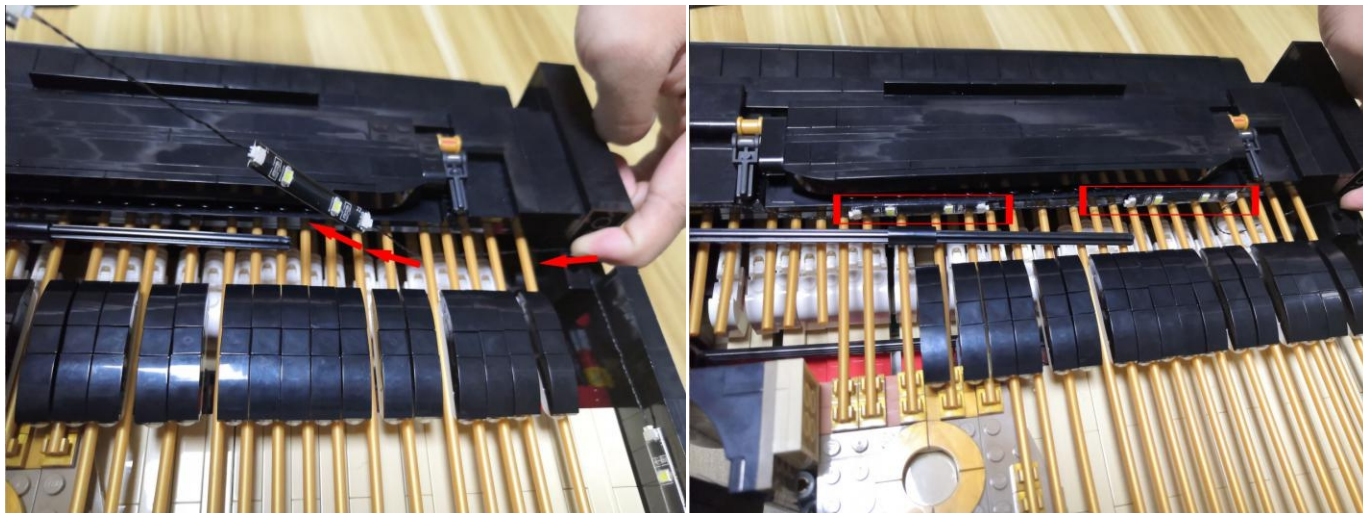
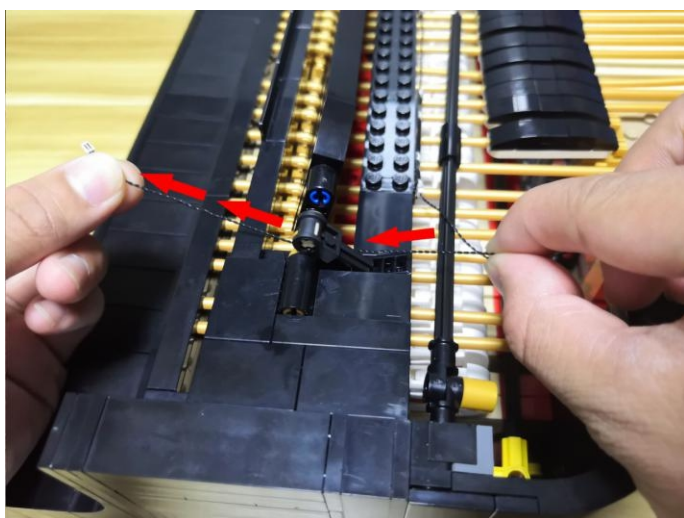Connect the cable from the corner to the following strip light.

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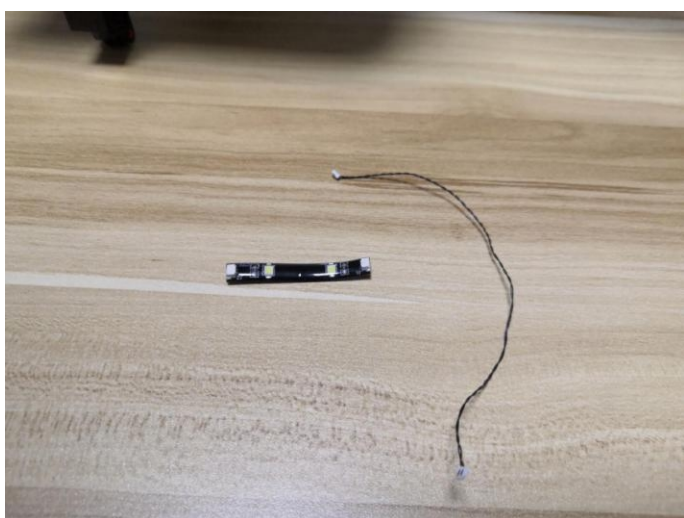

Pull all the strip lights through, stick the other strip lights at the following places.

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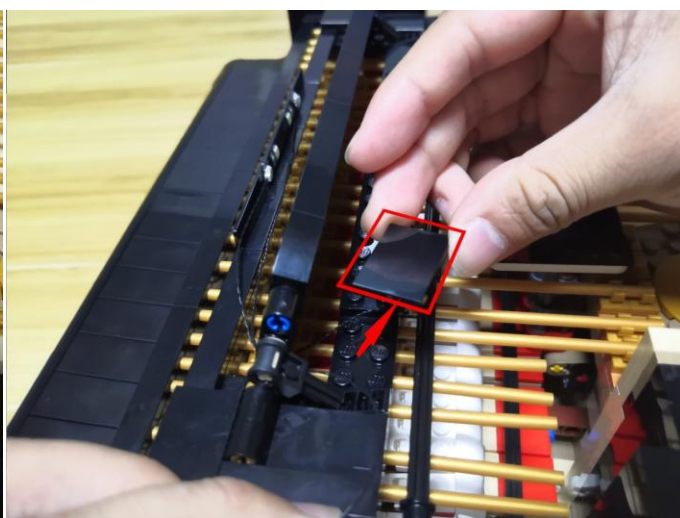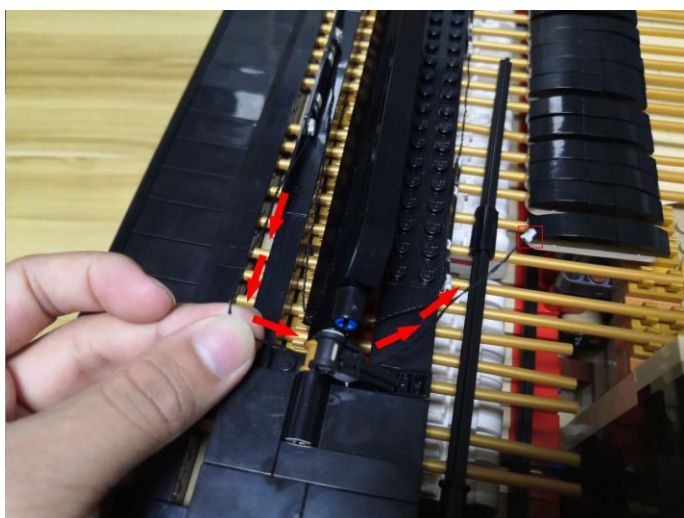

Take a white strip light, a 15cm connecting cable, connect the connecting cable to the strip light.
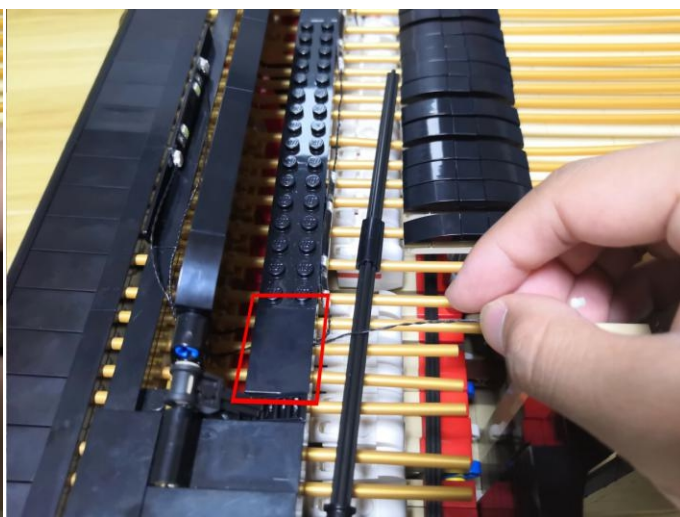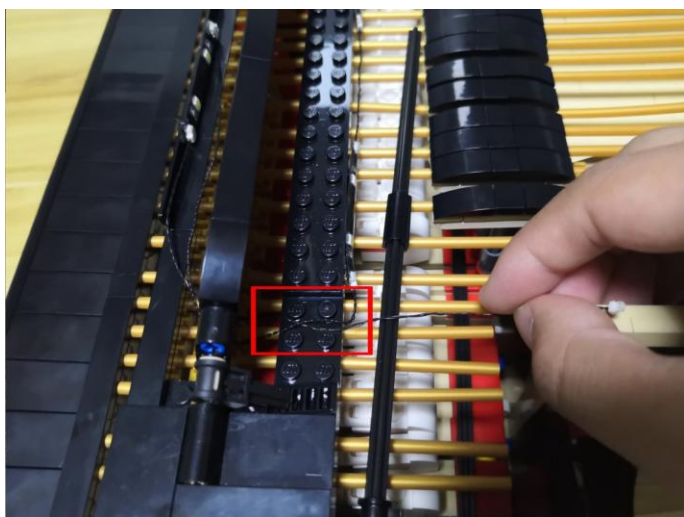

Connect the 15cm connecting cable underneath the music stand to the strip light, stick the strip light to the following place, pull the cable leftward.
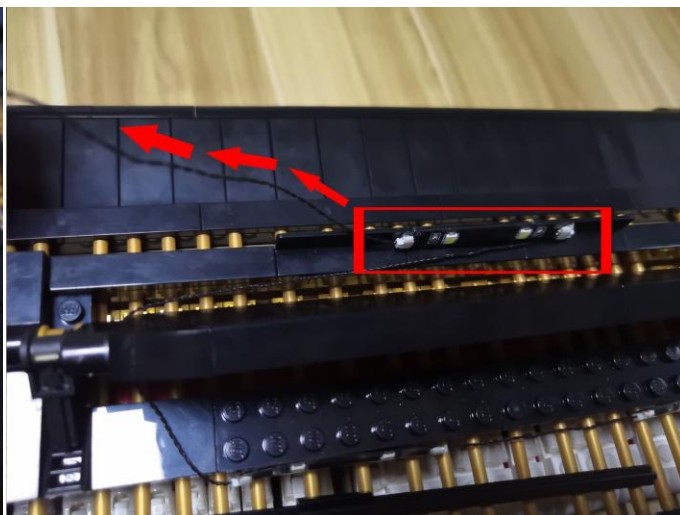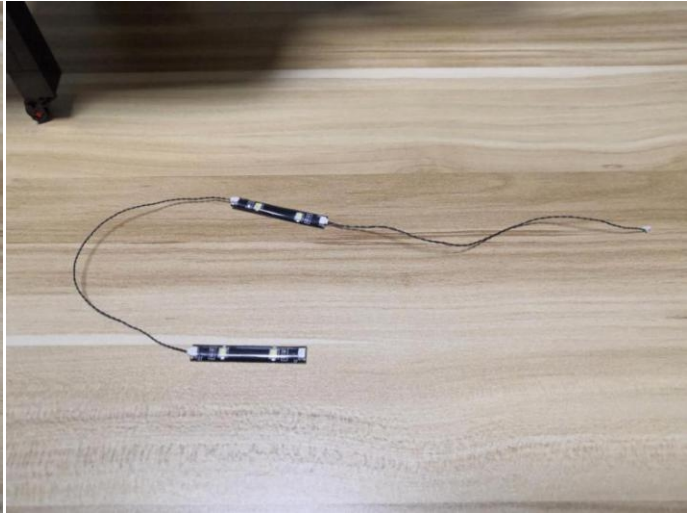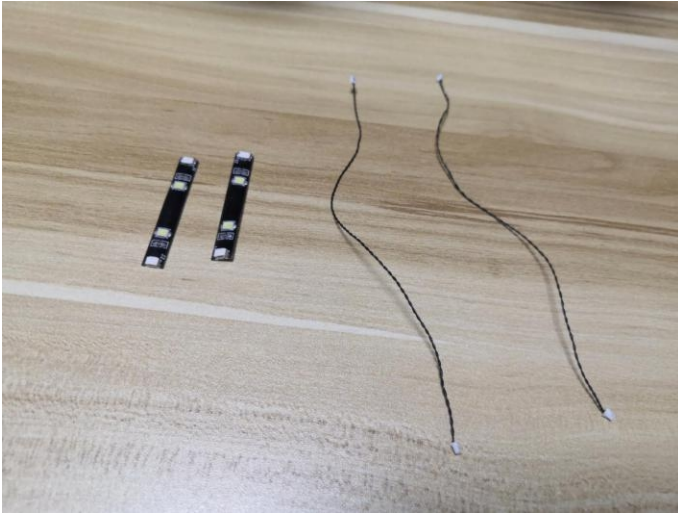
Thread the cable behind the music stand, disconnect the following black piece.
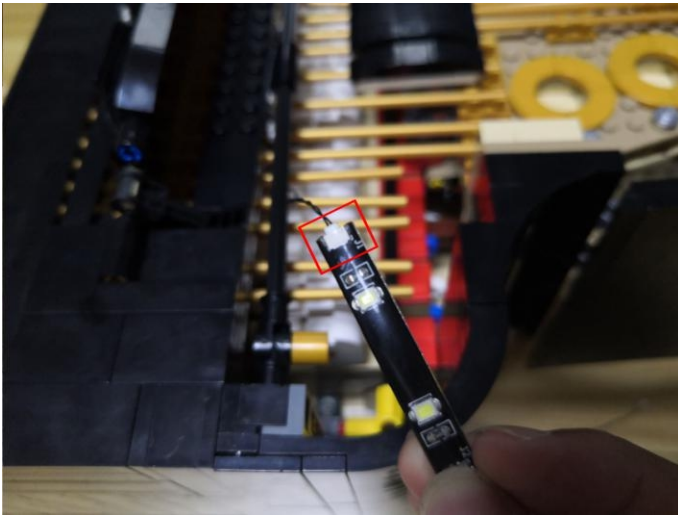

Place the cable as per below, reconnect the black piece, thread the cable down as per below.
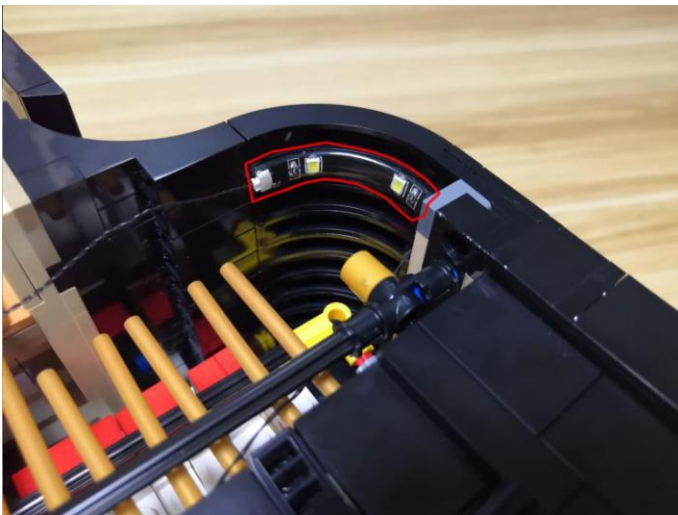

Take 2 white strip lights, two 15cm connecting cables, assemble them as per below.
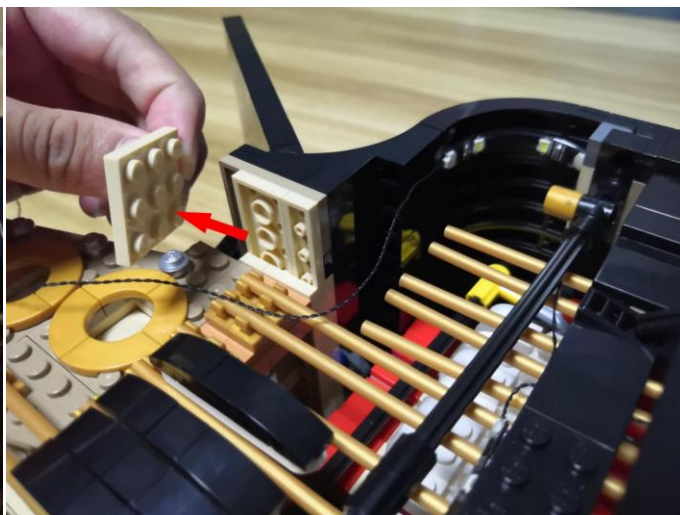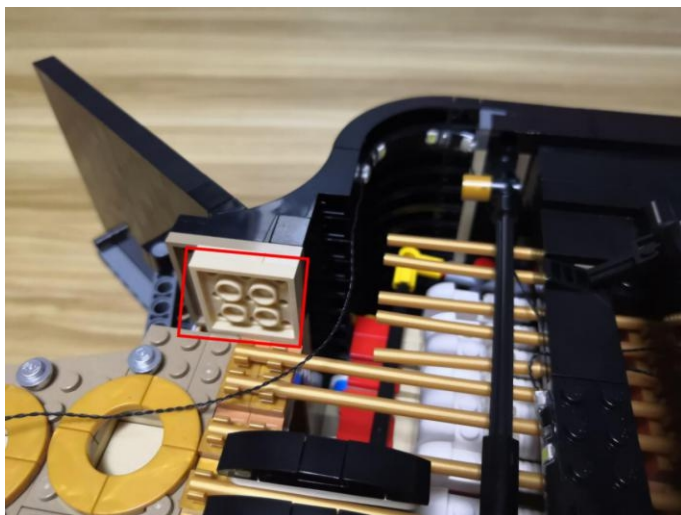
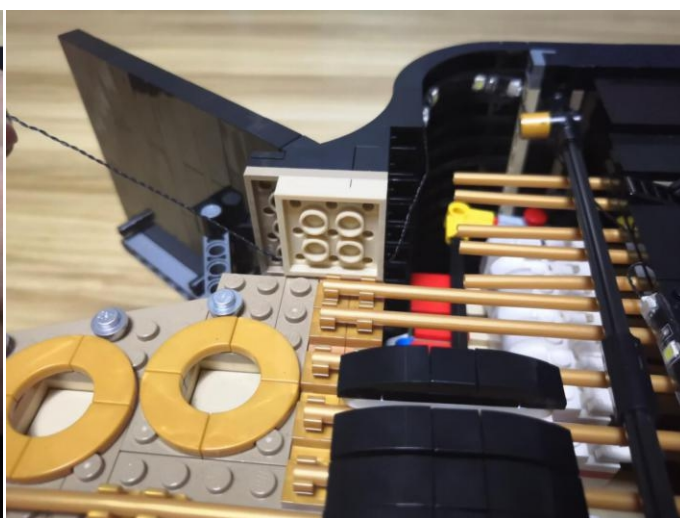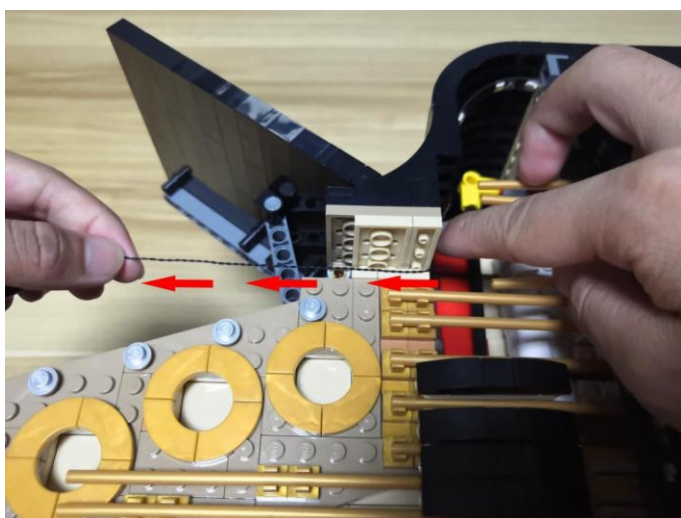Connect the following connecting cable to the strip light as per below.

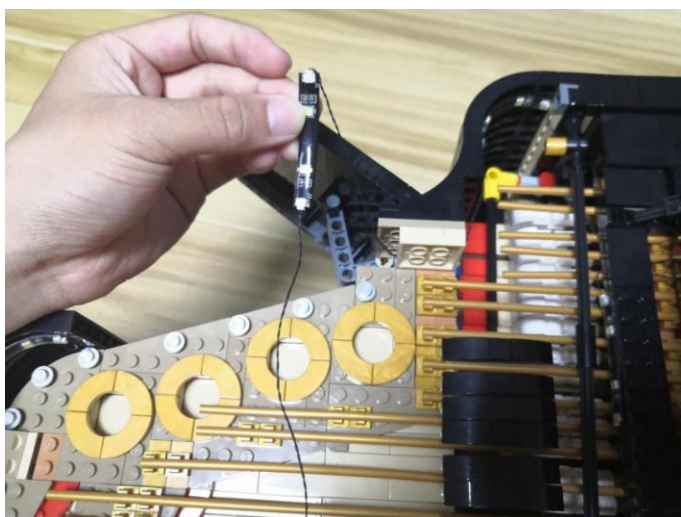Stick the strip light to the following place.
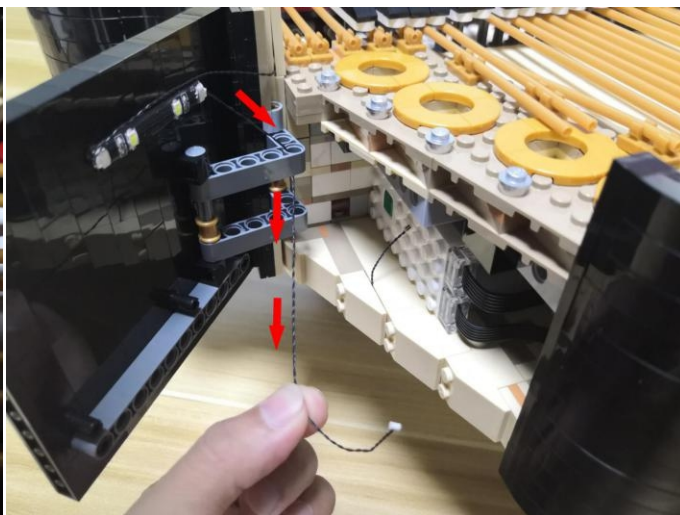

Remove the following beige piece.

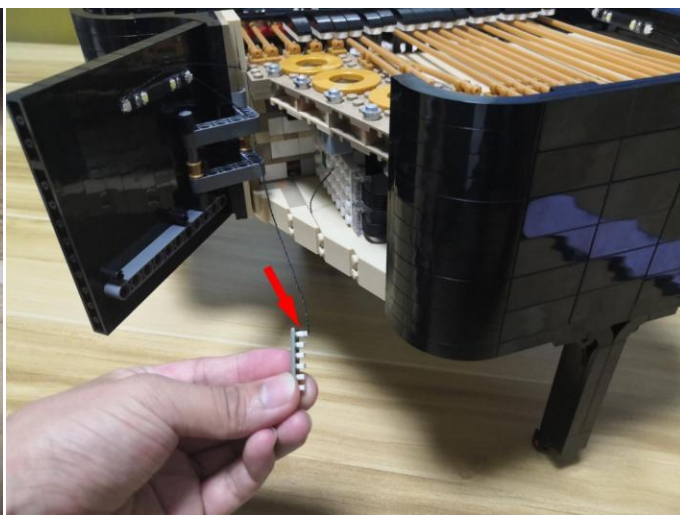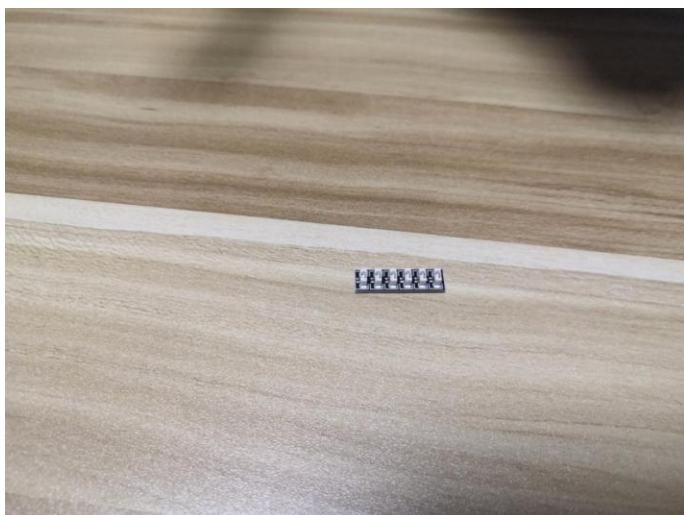Place the cable as per below, reconnect the beige piece.

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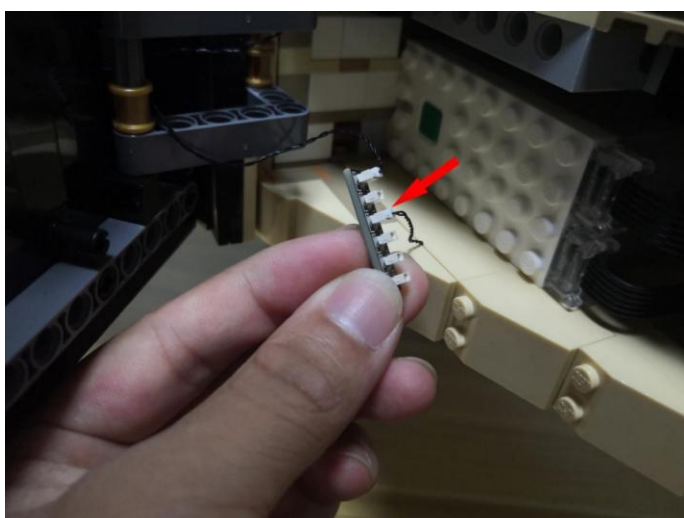

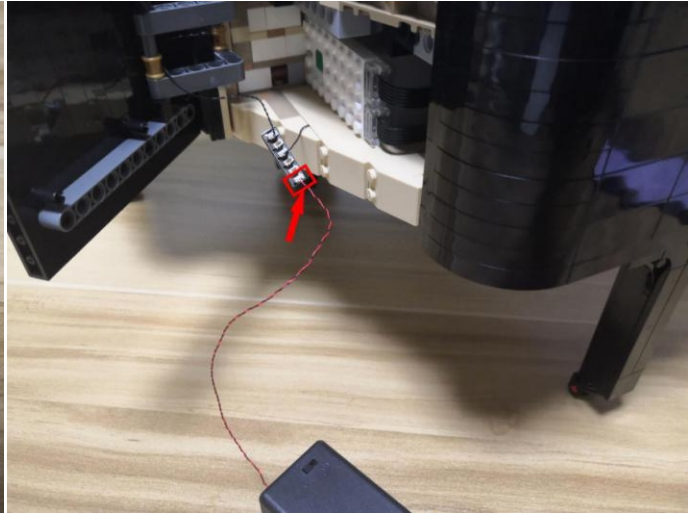Turn to the side, thread the cable through the following hole.

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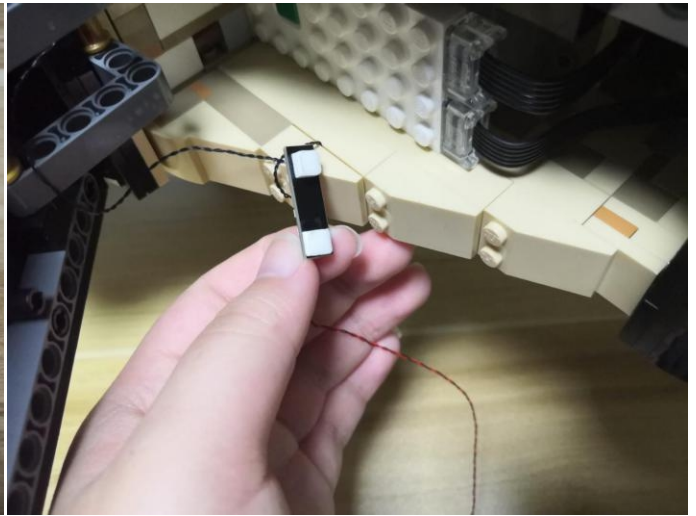

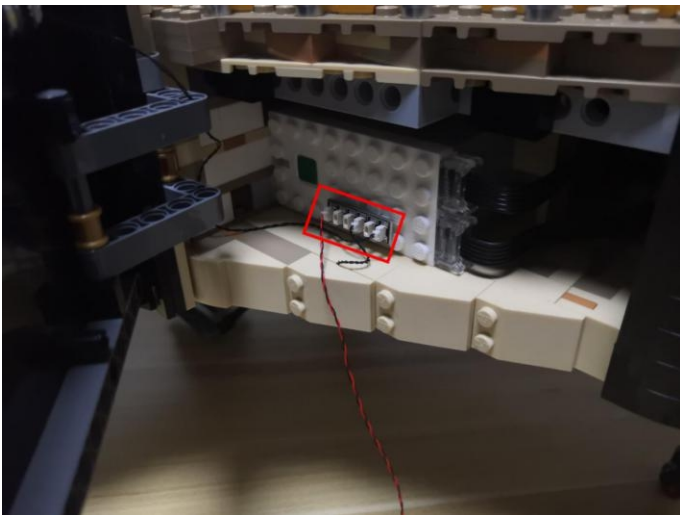Connect the cable from the following beige piece to the expansion board.

Take a AAA battery pack, connect it to the expansion board, and place the battery pack at the following place.
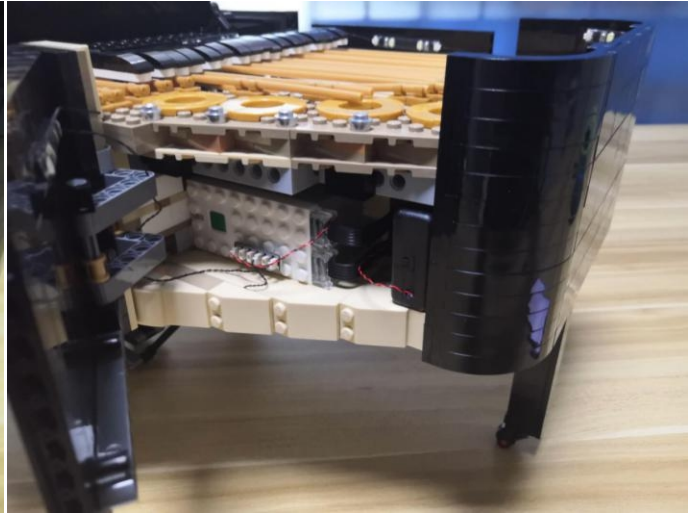
Take 2 adhesive squares, stick them to the back of the expansion board.
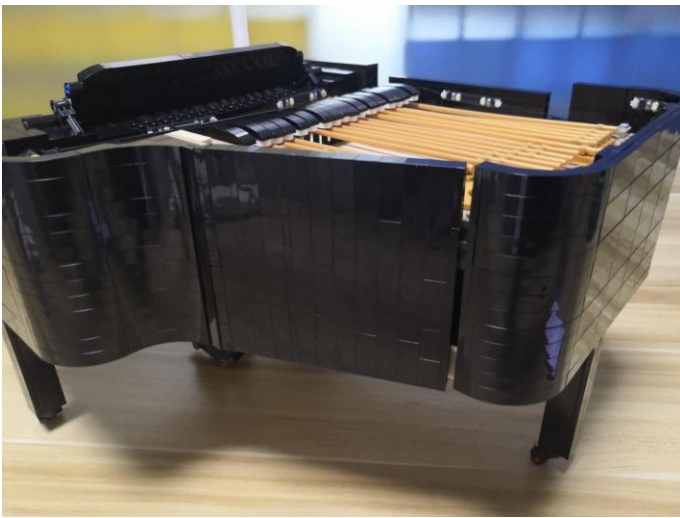

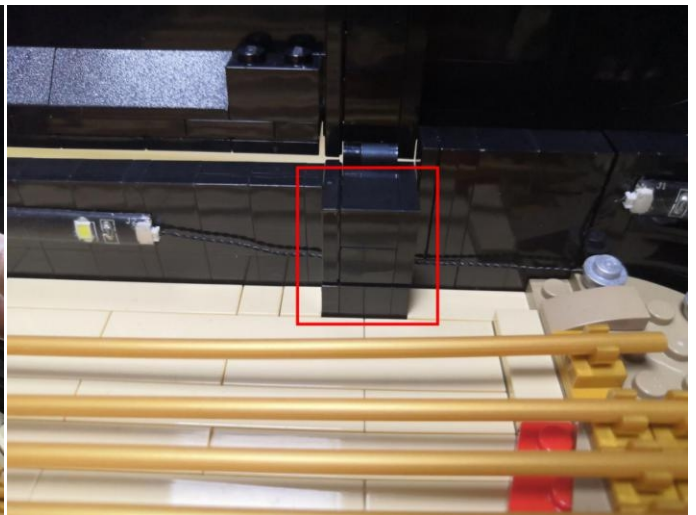Stick the expansion board to the following place.

Place the battery pack at the following place.

Close the side door.

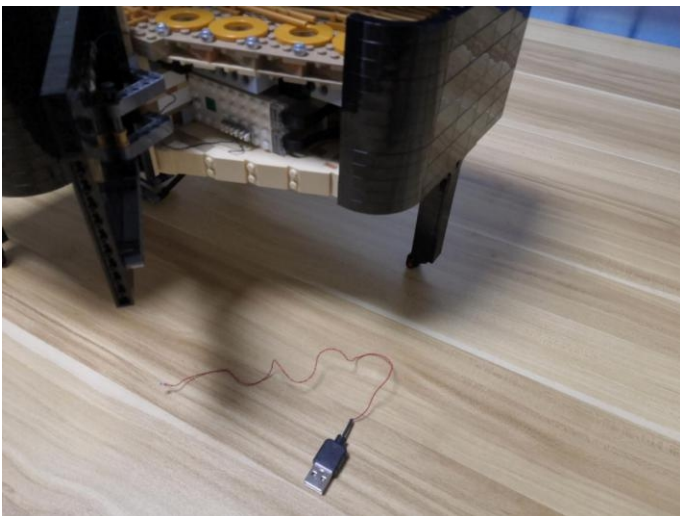Reconnect the roof, thread the cable through the middle of the joint pin as per below.

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.)
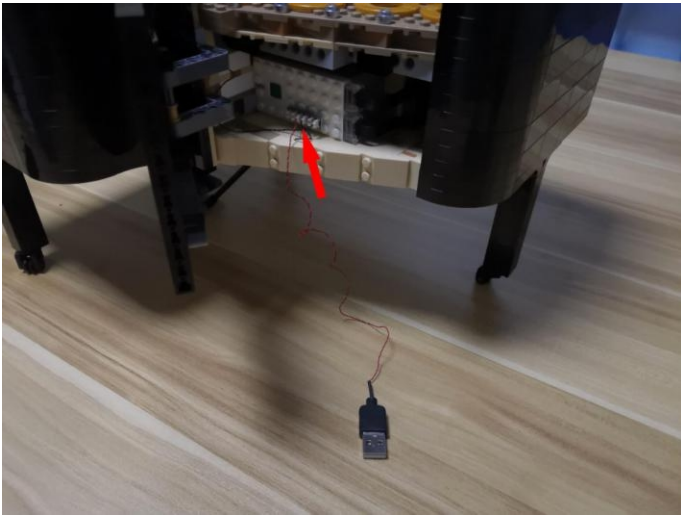
If you want to keep the lights on, you can use the USB cable. Firstly, disconnect the battery pack.
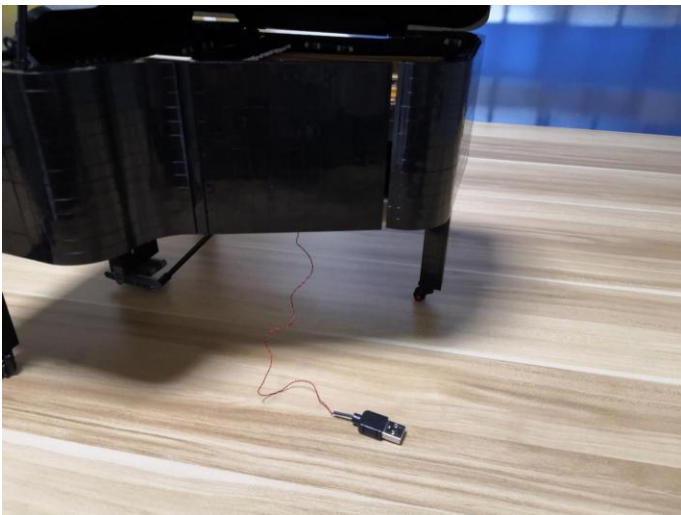

Take the USB cable.

Connect the USB cable to the expansion board.

Close the side door.

Connect it to the power bank, by doing so, you can keep the lights on for a long time, have fun!

The above are ideas and instructions provided by our designers. Please move on:
1: Do you have any suggestions about the material and quality of our products?
2: Do you have any suggestions on the installation instructions and the degree of difficulty of the installation?
3: If you have better installation method and ideas, please contact us in time.