# Disney Train and Station 71044 Basic Version Lighting Kit

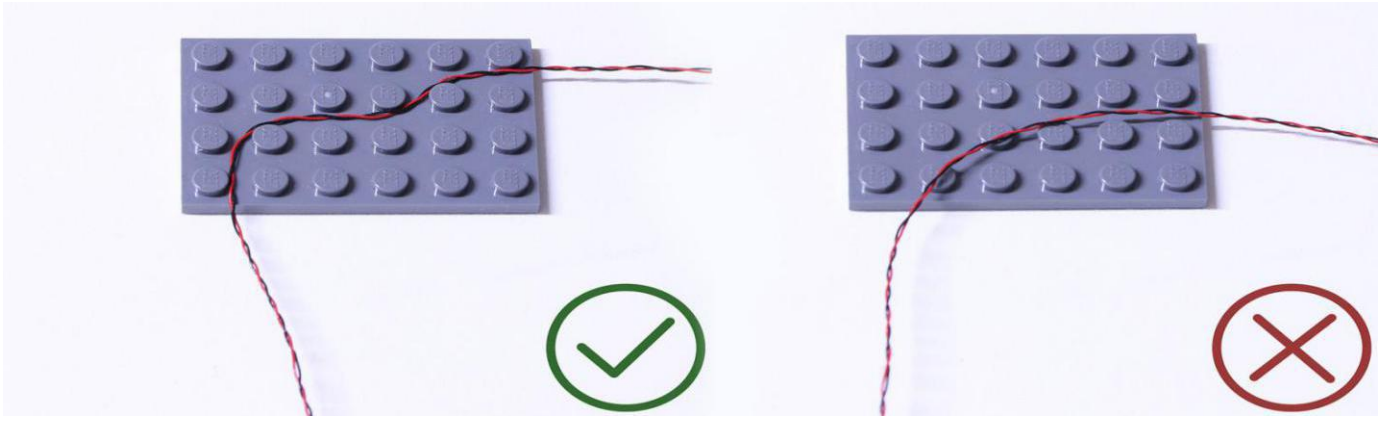
Package contents:

- 14 x 15cm Warm White Dot Lights
- 5 x 30cm Warm White Dot Lights
- 2 x 15cm Warm White Lights
- 1 x 30cm Warm White Light
- 7 x Warm White Strip Lights
- 2 x 5cm Connecting Cables
- 7 x 15cm Connecting Cables
- 2 x 30cm Connecting Cables
- 3 x 50cm Connecting Cables
- 6 x 6-port Expansion Boards
- 1 x 8-port Expansion Board
- 2 x Multi-Colour Background Lights
- 1 x Round Coin Cell Battery Pack
- 1 x USB Cable

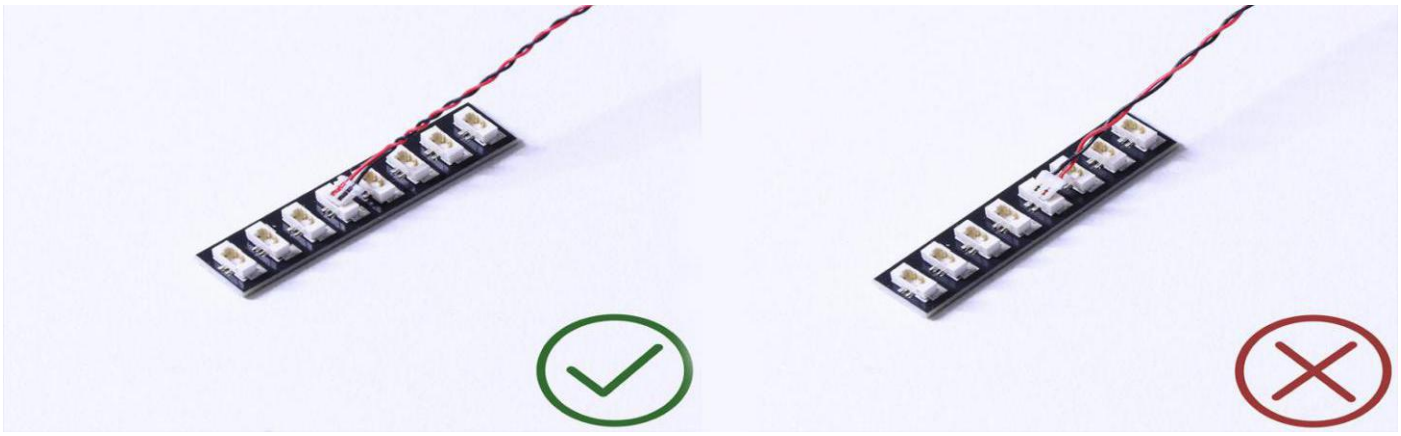
Extra LEGO pieces

## Note:

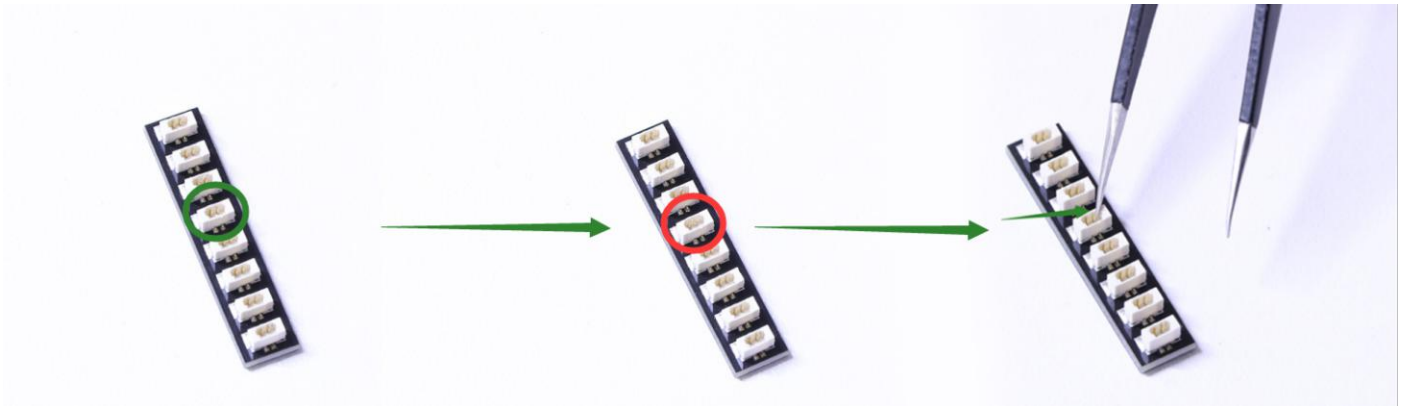
Place wires on the surface or under the LEGO building blocks.
The wire can be place between the building blocks or under the block, but they should be placed between the studs correctly.



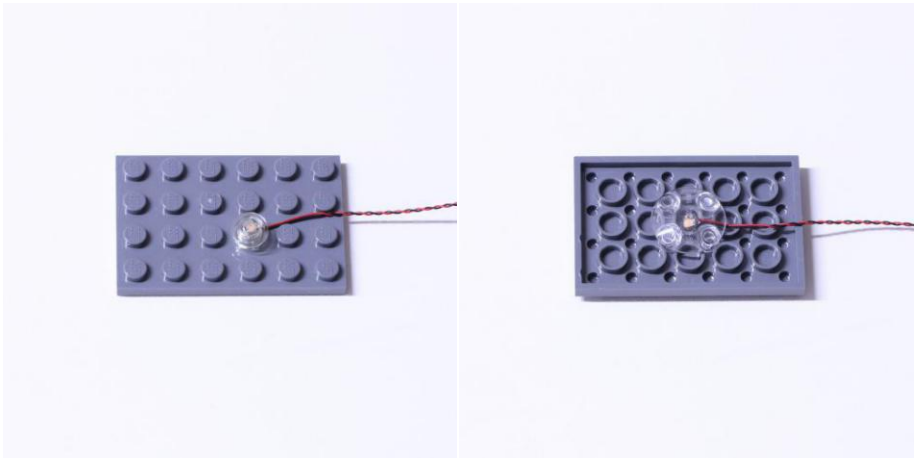
Insert the connectors to the ports.
Be careful when you are operating, there's only one correct way to insert, make sure the expansion board is upward, find the soldered "=" sign on the left of the port. When you are inserting, the side which the wires can be seen should be faced to the "=" sign and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

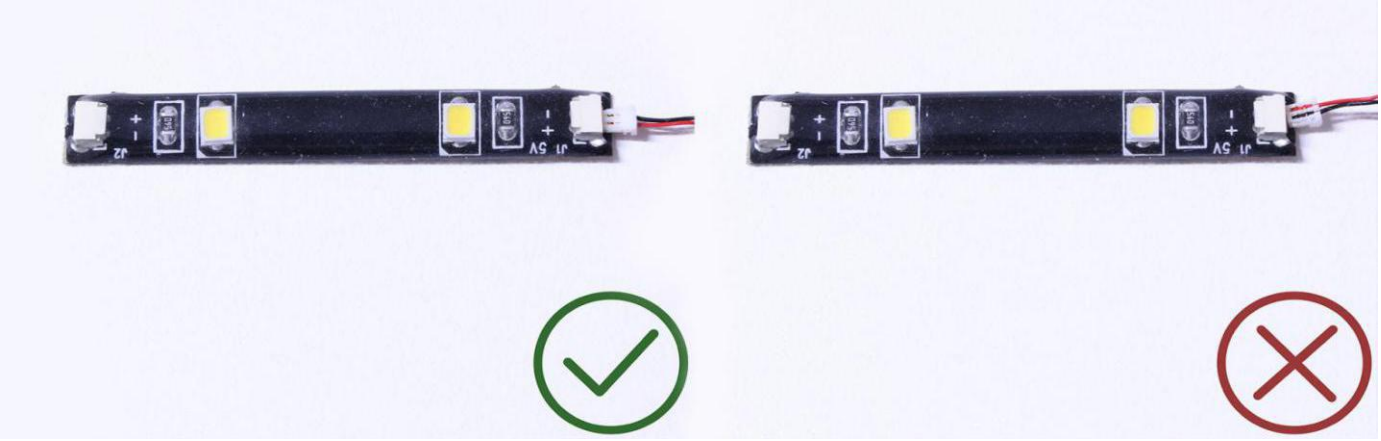


When installing dot lights, make sure they are correctly placed (Yellow LED package is exposed). You can put they either on the top of the studs or between studs.

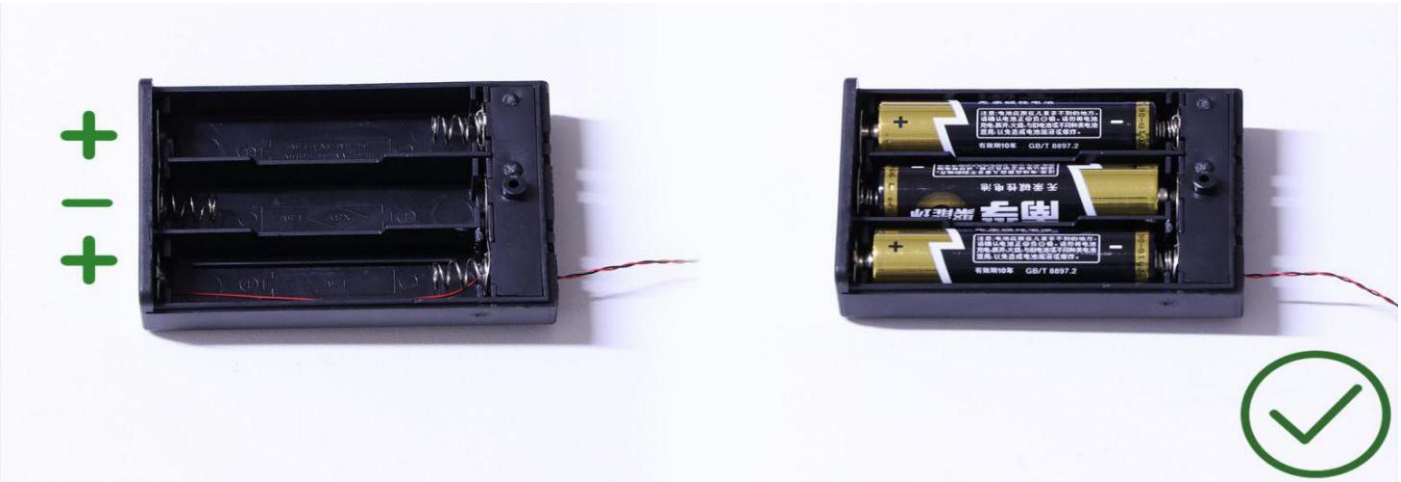


# Connecting cable connectors to Strip Lights

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.



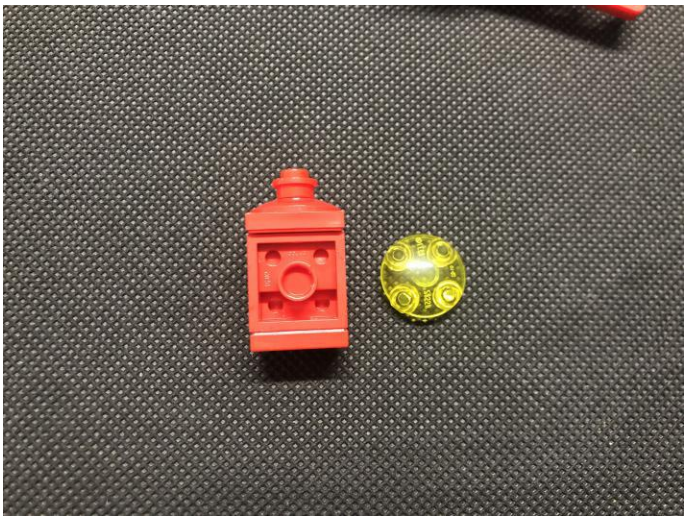
Finally, please pay attention to the positive and negative terminals of the battery when installing the battery case.



# Instructions for installing this kit:

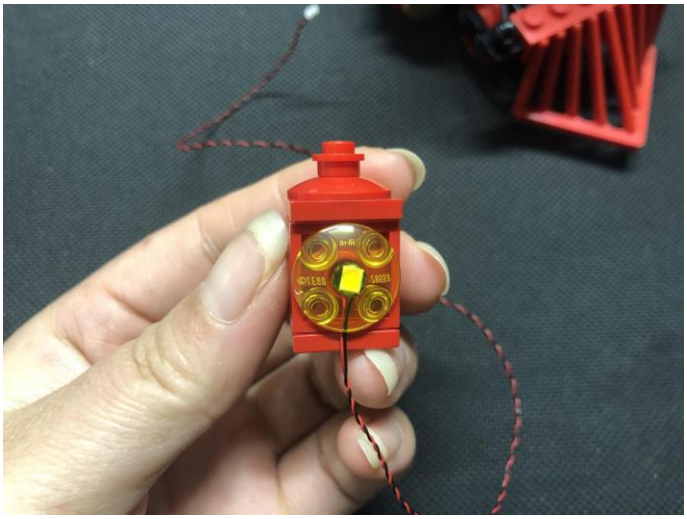
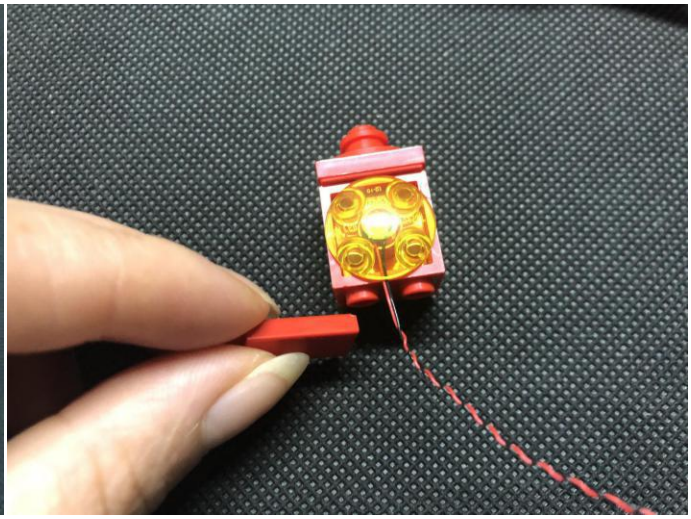
OK, Let’s Begin!
Start from installing headlights for the train


Disconnect the first carriage. Remove the headlights, disconnect the following trans yellow 2x2 round plate

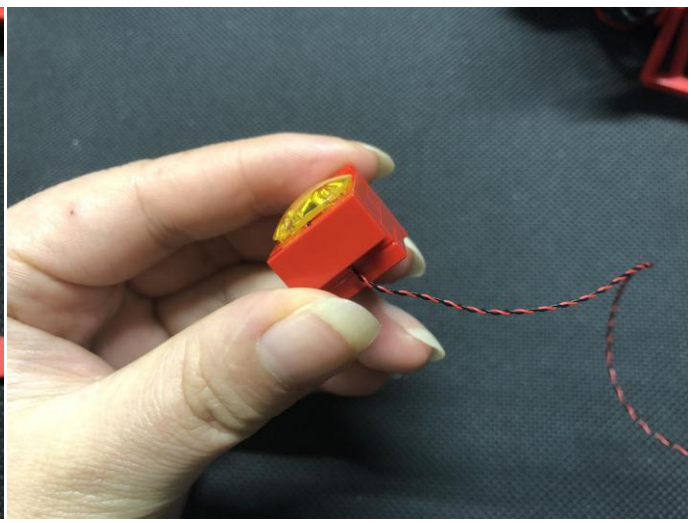



Take a warm white 30cm light, with lighting part facing up, connect it to the following place as per below

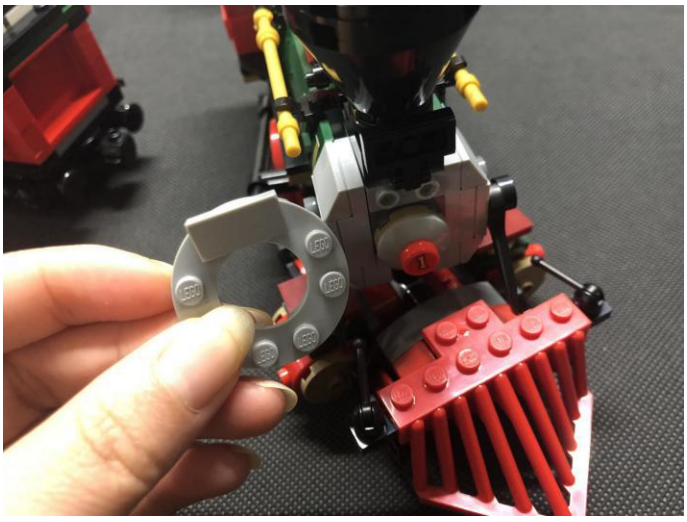

Reconnect the trans yellow piece to secure the light. Remove the following 1x2 red plate

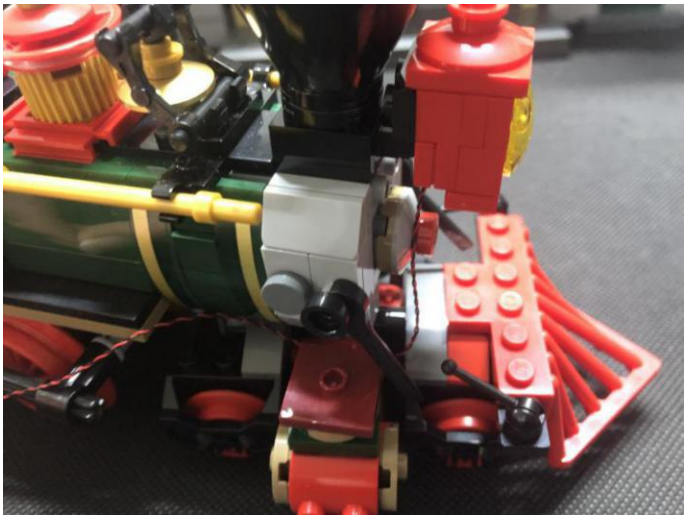
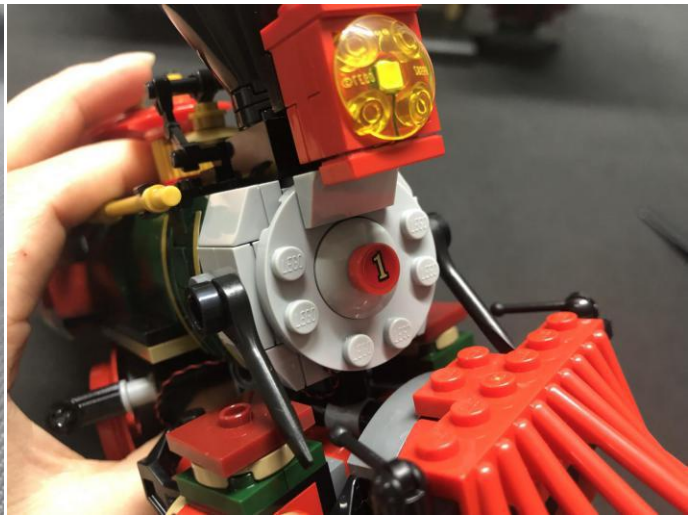
Place the cable as per below, reconnect the red piece

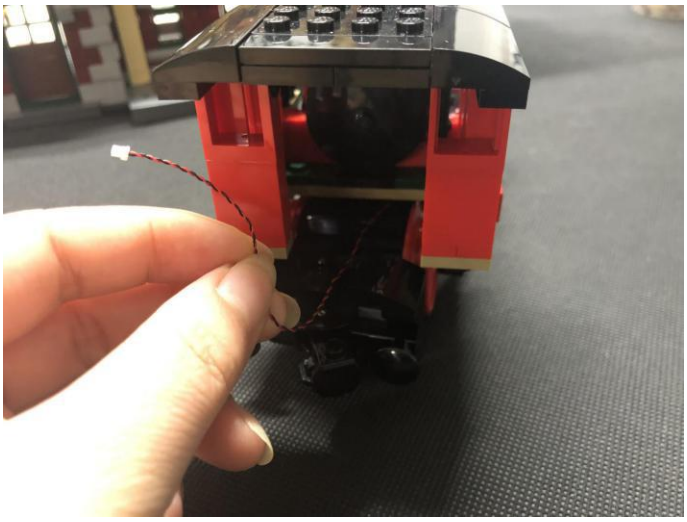
Remove the following gray ring, reconnect the headlight



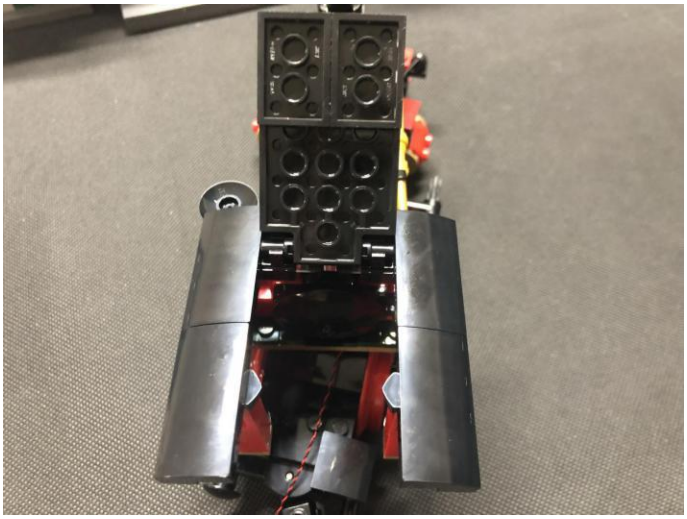

Pull the cable downward, then, pull it to the back, reconnect the gray ring

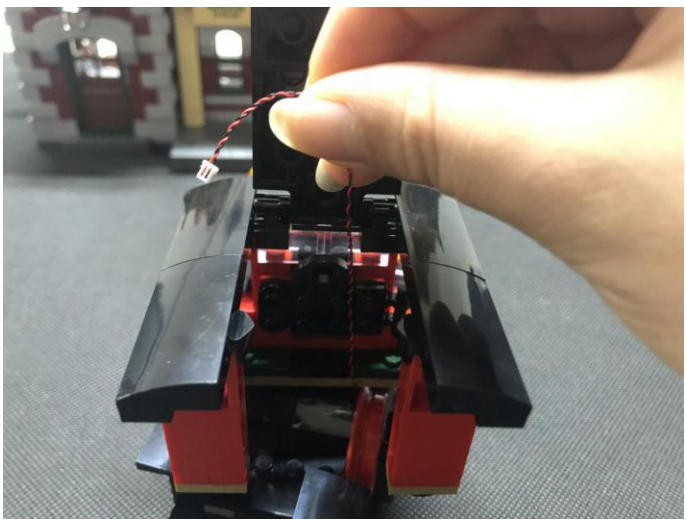
Turn the carriage to its side, pull the cable to the back as per below

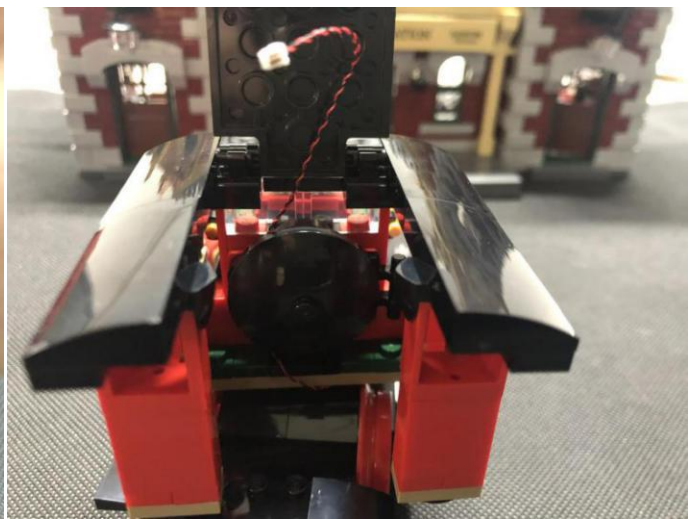


Open the lid of the carriage, remove the following black ring behind the seat

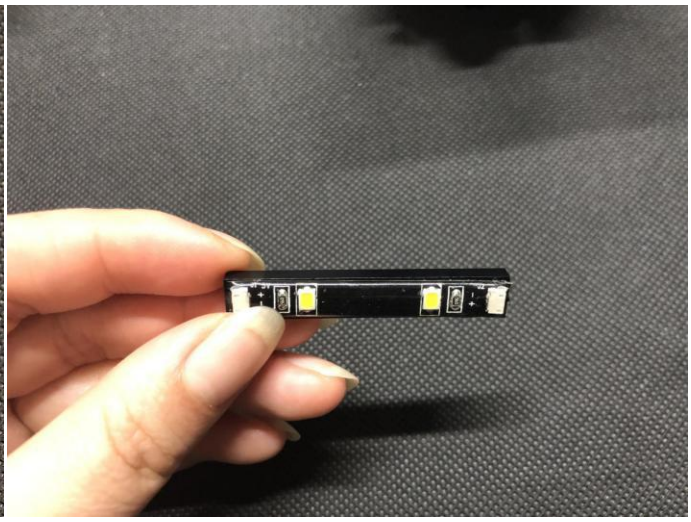


Then, pull the cable upward as per below, reconnect the black ring to secure the cable

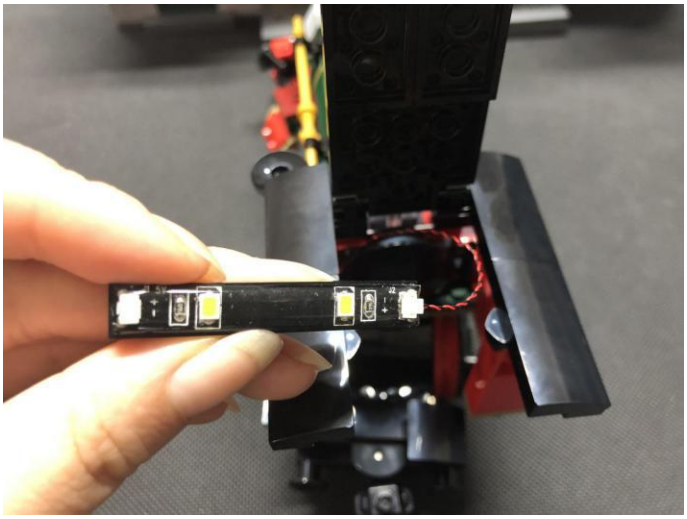




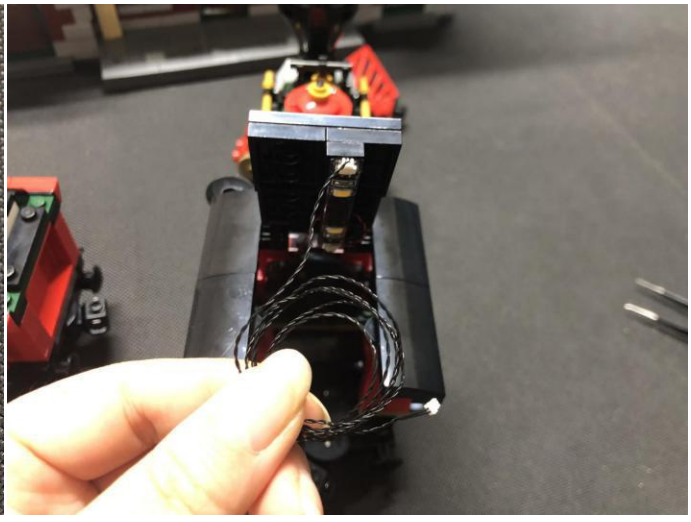
Take a warm white strip light, a 1x6 plate (the colour depends on the package). Stick the strip light to the plate as per below

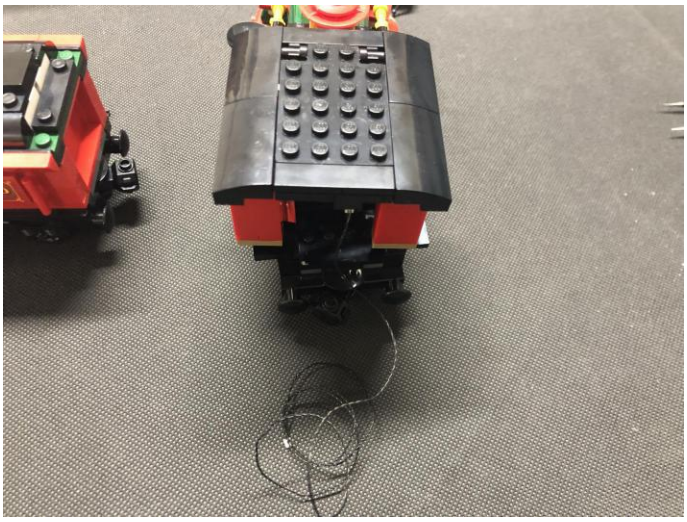
Connect the cable to the strip light, connect the strip light to the roof



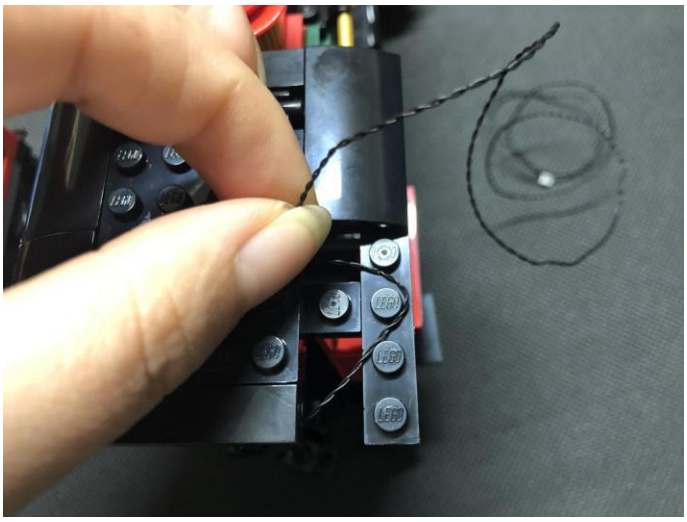
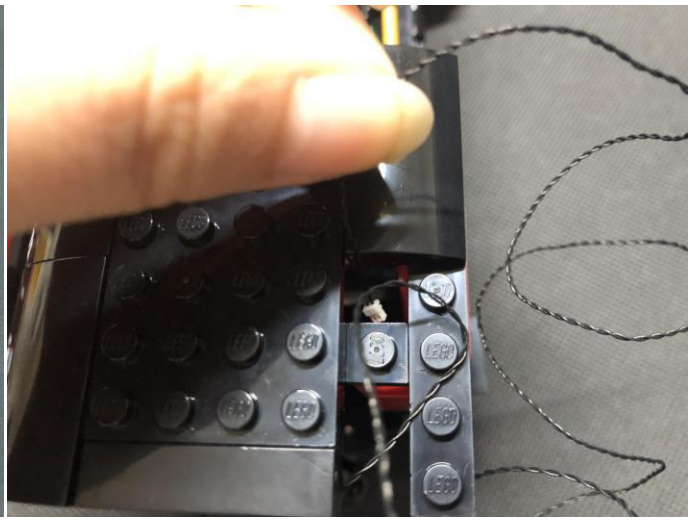

Take a 50cm connecting cable, connect the connecting cable to the other end of the strip light

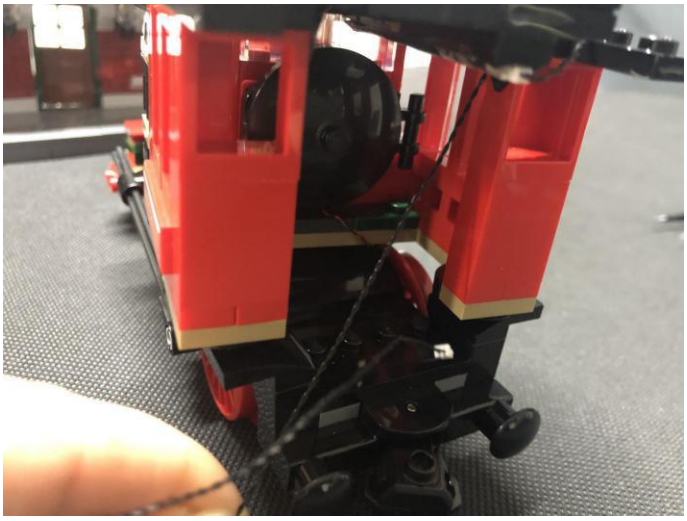



Reconnect the roof. Remove the following piece

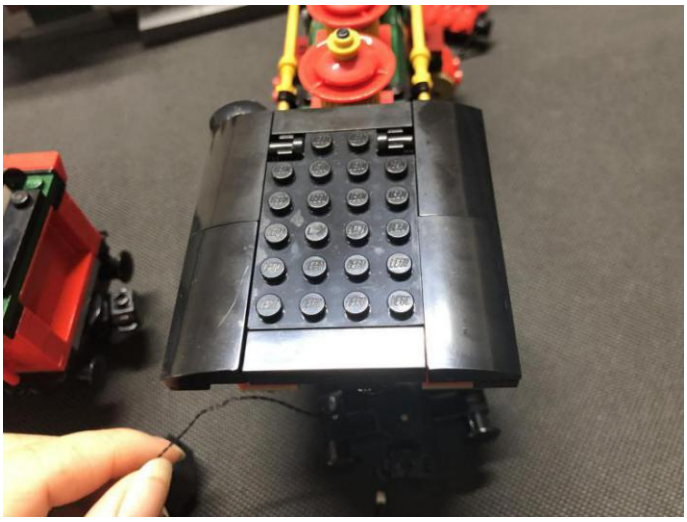



Place the connecting cable as per below, thread the cable through the following space to the inside of the carriage, then, pull it downward

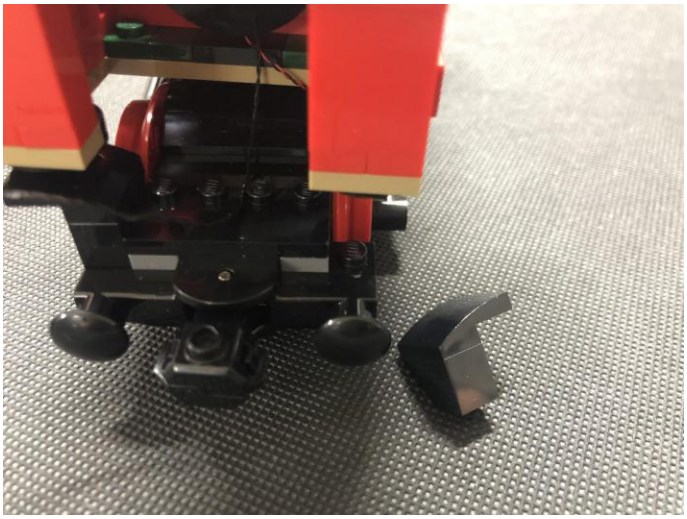



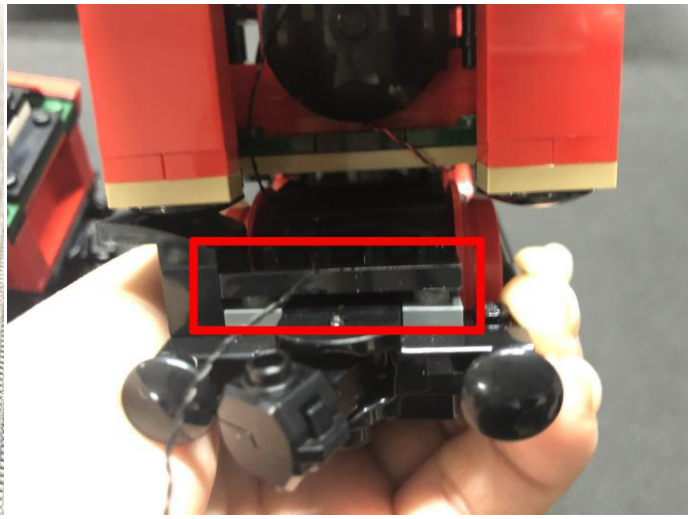


Reconnect the piece

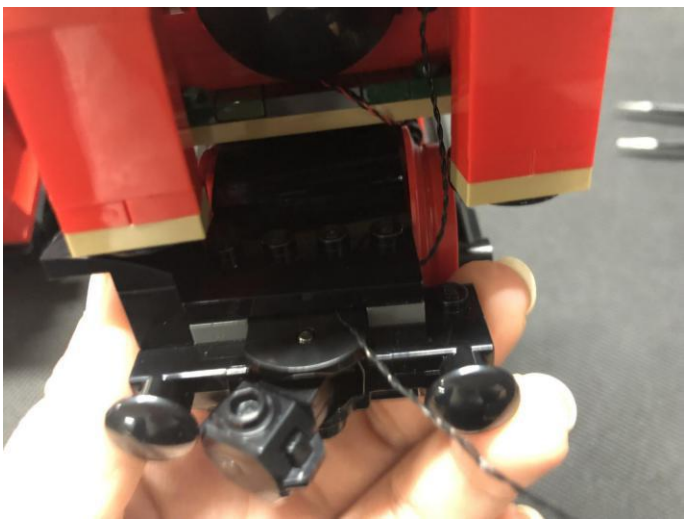


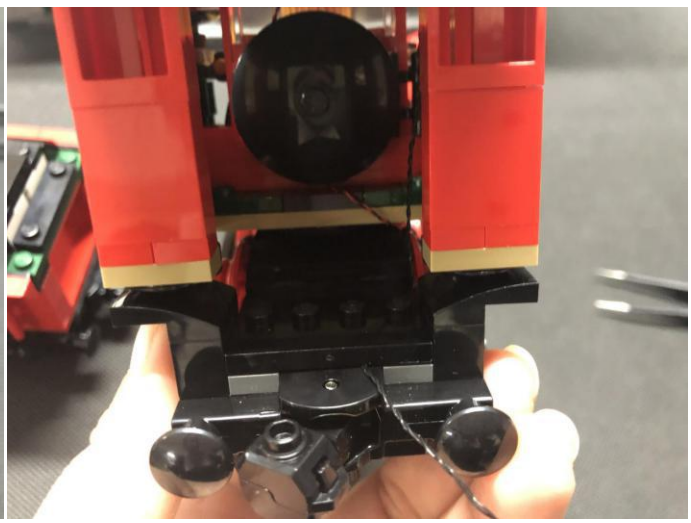
Remove the following piece, make a gap between the base and the carriage.





Thread the cable through the gap, close the gap, reconnect the piece we removed before

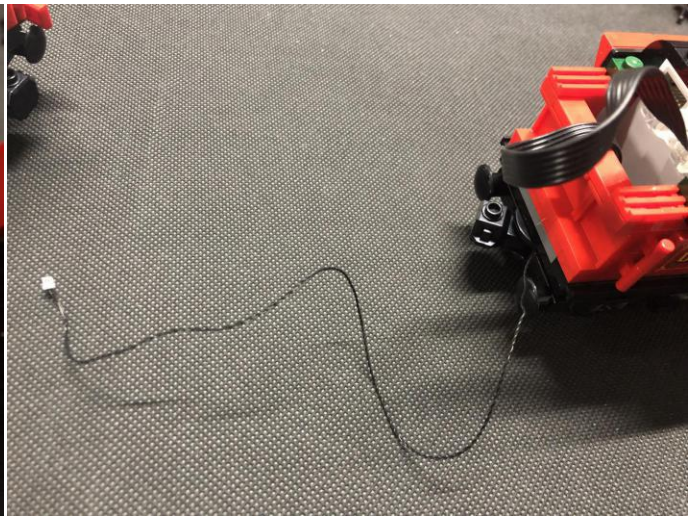




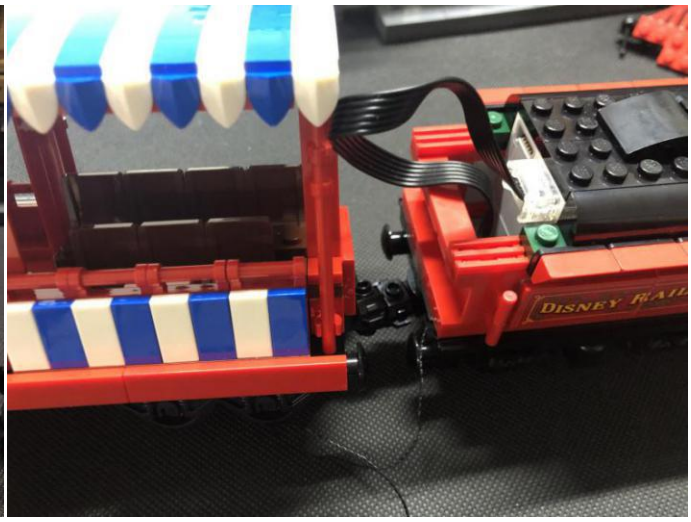
Place the connecting cable backward. Disconnect the second carriage


Turn the carriage to its side, make a gap between the tire and the carriage (note: do not break the motor cable), connect the first and the second carriage together. Thread the connecting cable through the gap we made

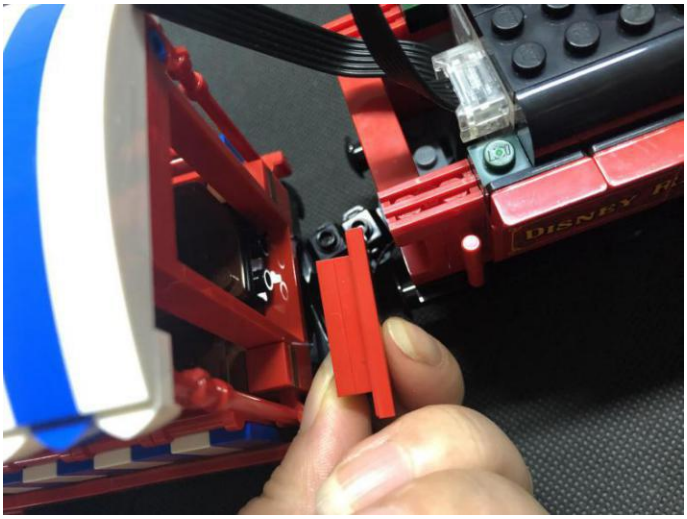
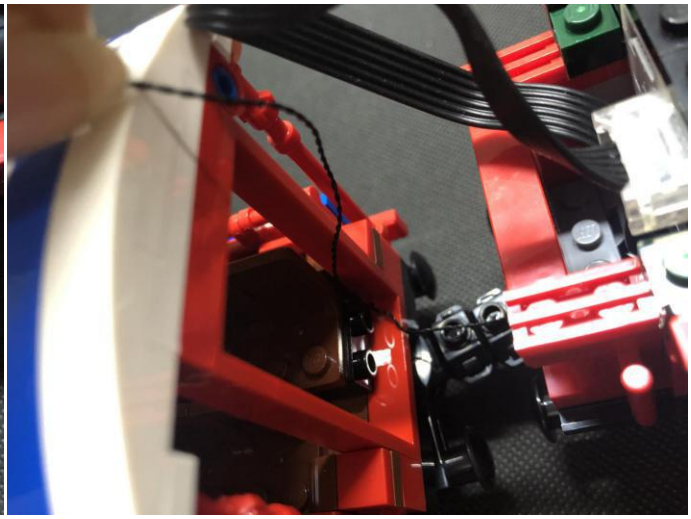

Reconnect the carriage as per below



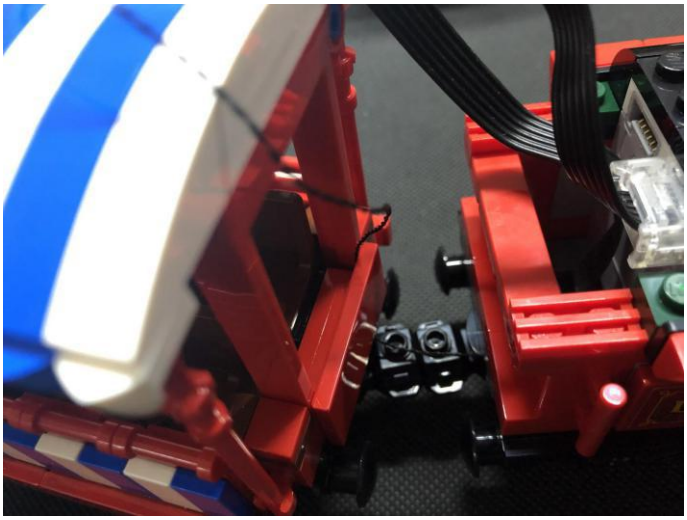
Disconnect the third carriage, connect the second carriage and the third carriage together

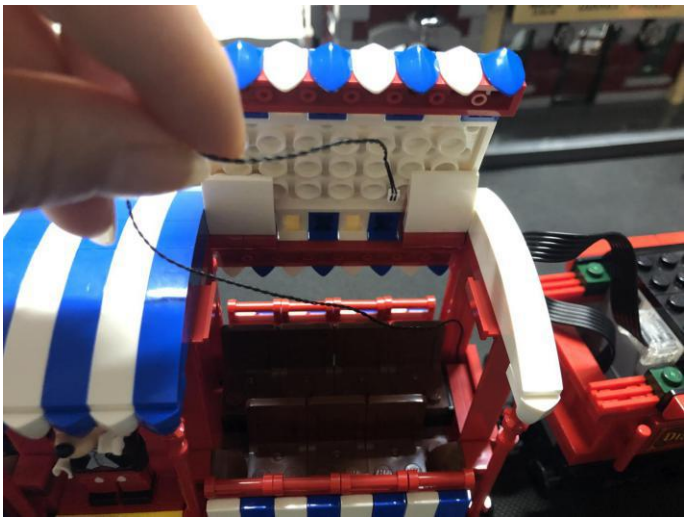
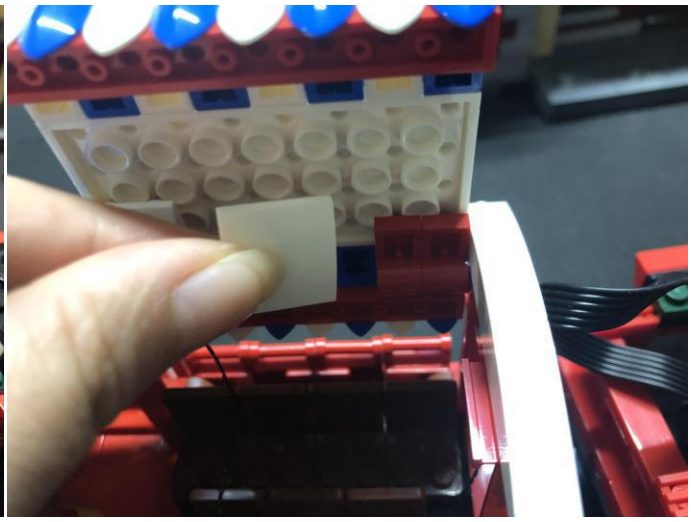
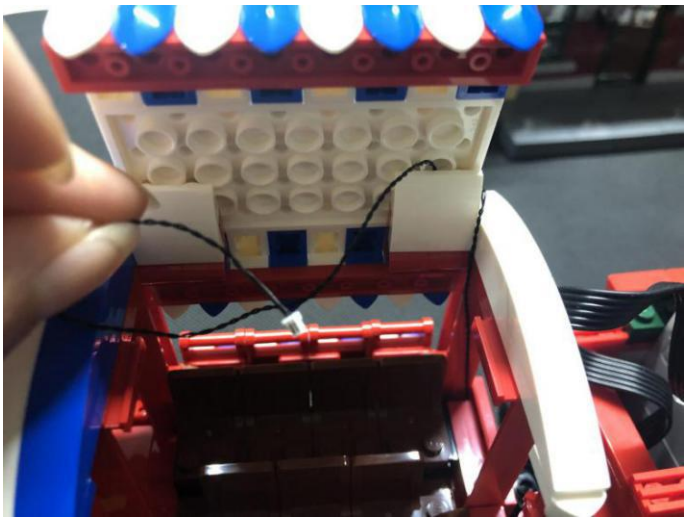
Remove the following piece, pull the cable upward as per below

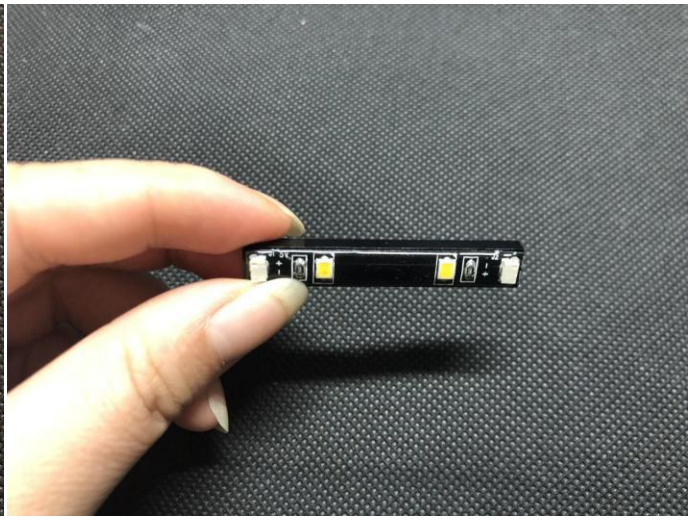
Reconnect the piece we removed, open the roof



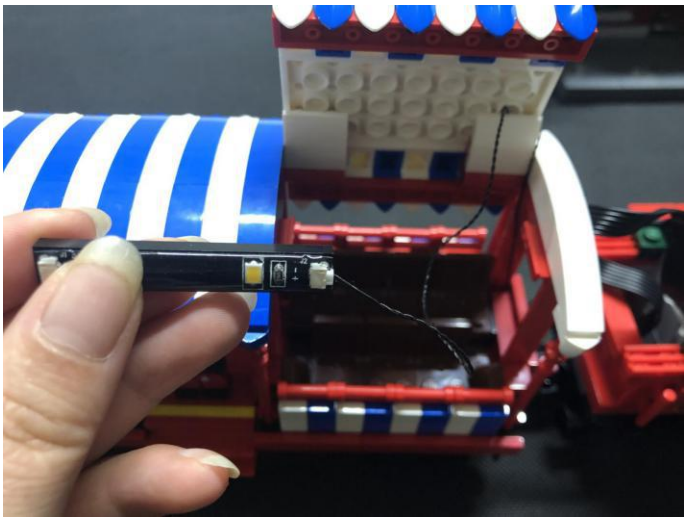
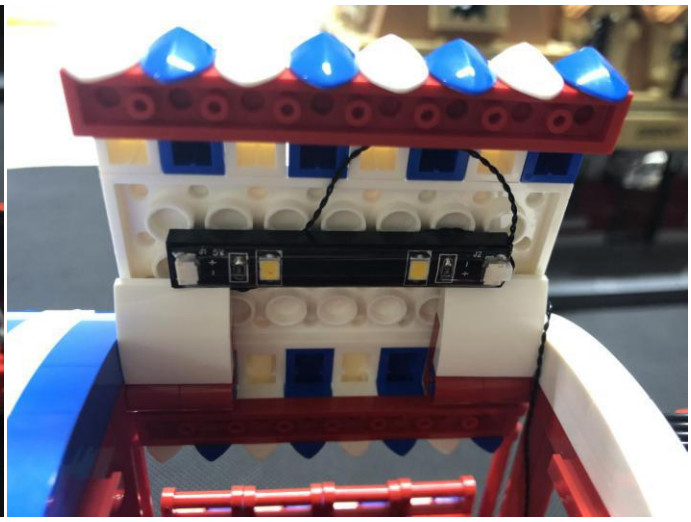

Pull the cable to the roof, remove the following white piece, secure the cable with the white piece as per below

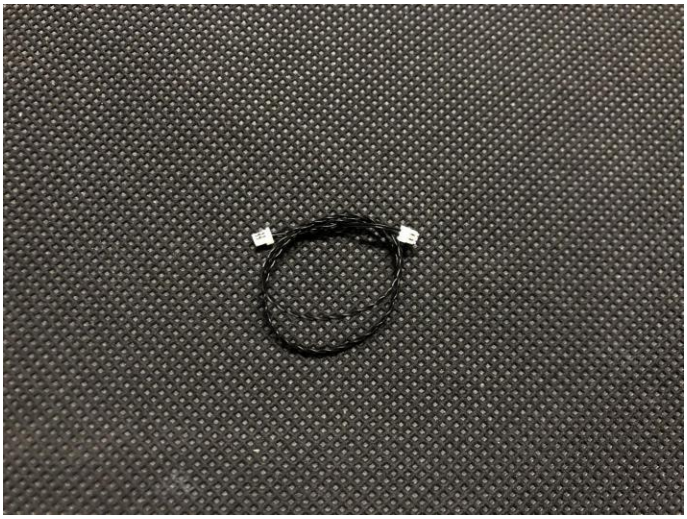
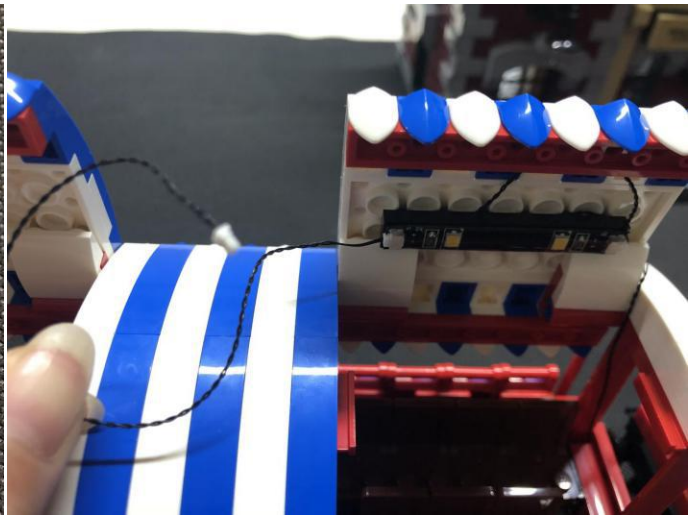
Take a warm white strip light, a 1x6 plate (the colour depends on the package), stick the strip light to the 1x6 plate

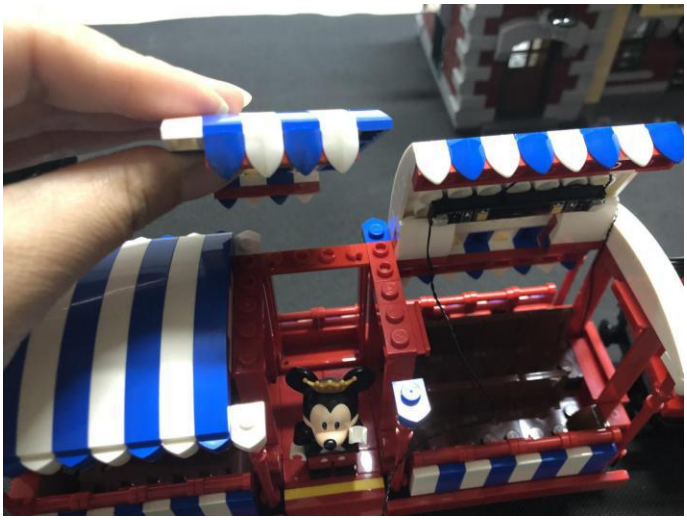
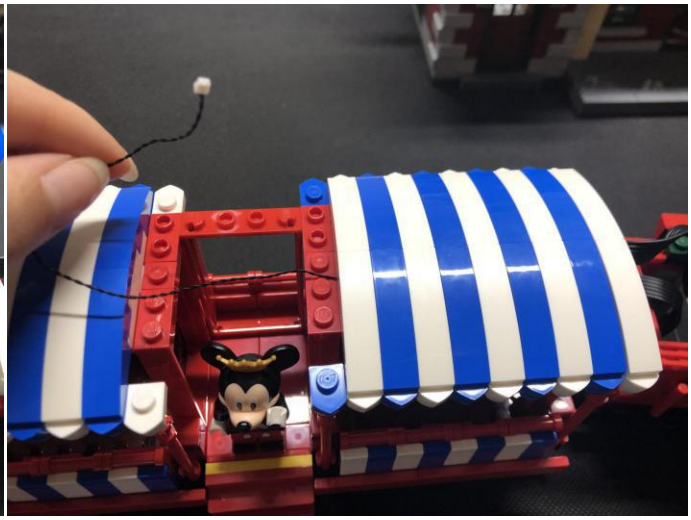
Connect the connecting cable to the strip light, stick the strip light to the roof, tuck excess cable with the plate

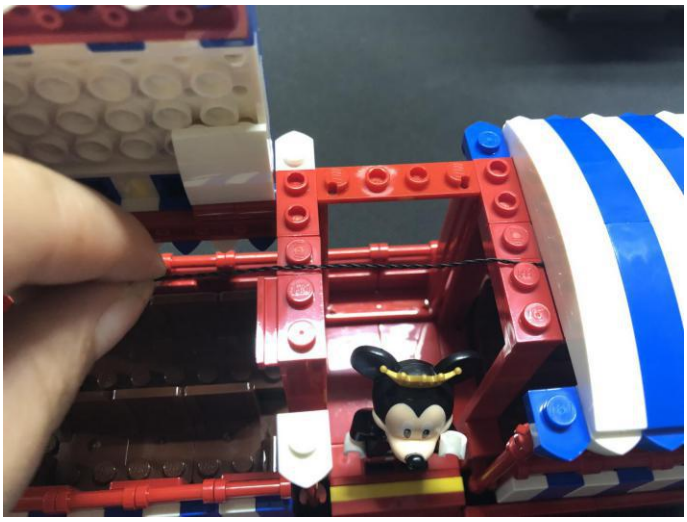
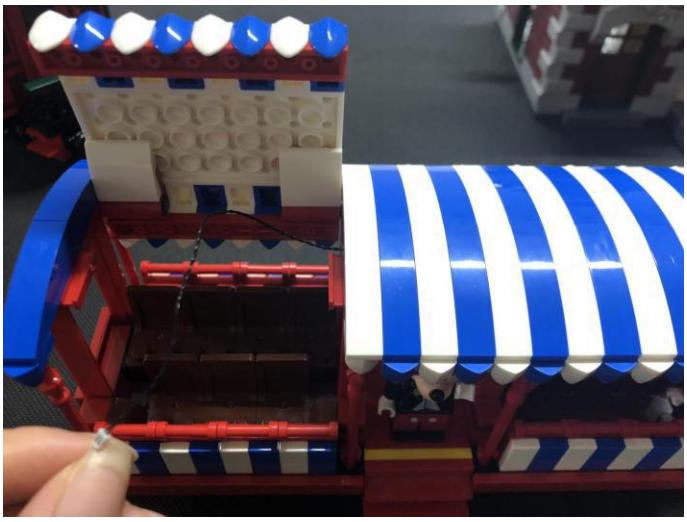
Take a 15cm connecting cable, connect it to the strip light

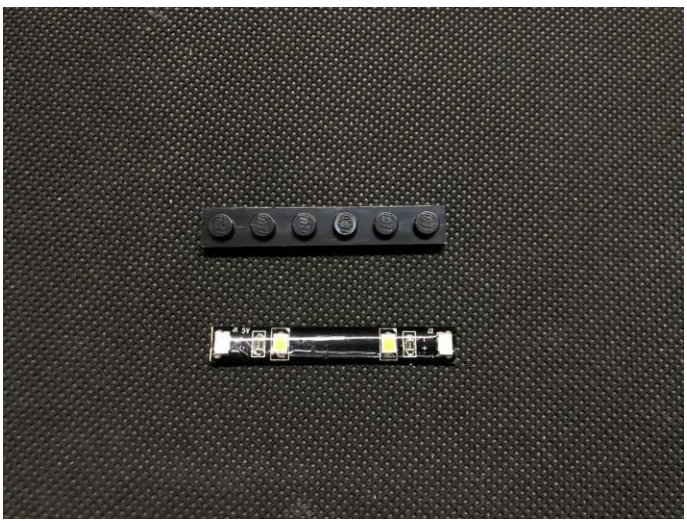
Remove the following roof, close the first piece of the roof, pull the cable out

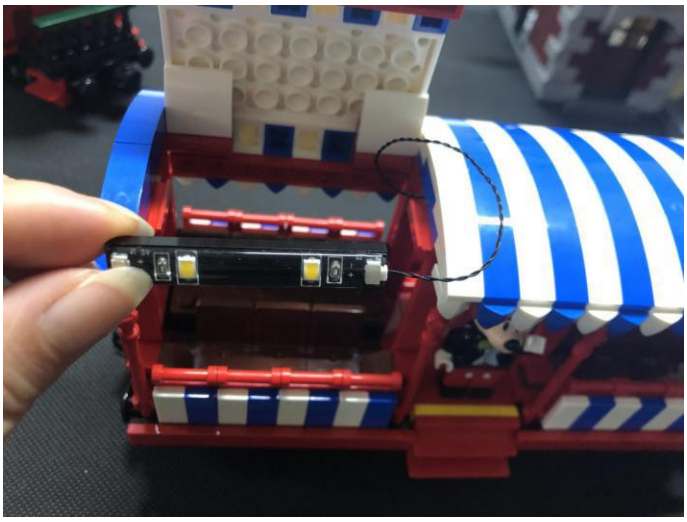
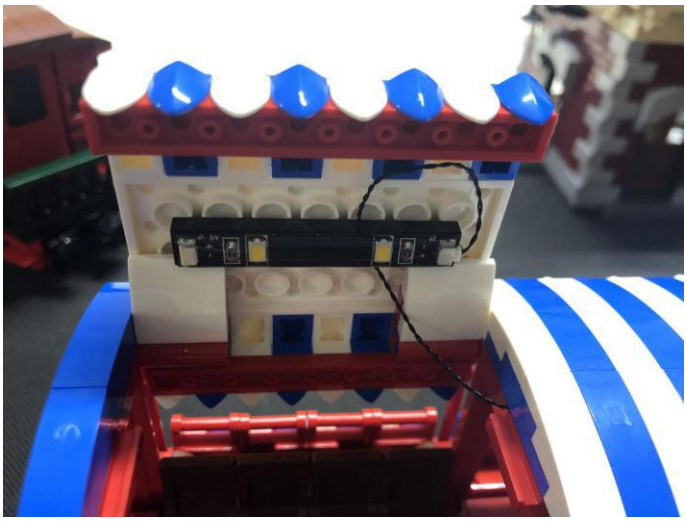
Open the following piece of the roof, place the cable as per below, reconnect the roof

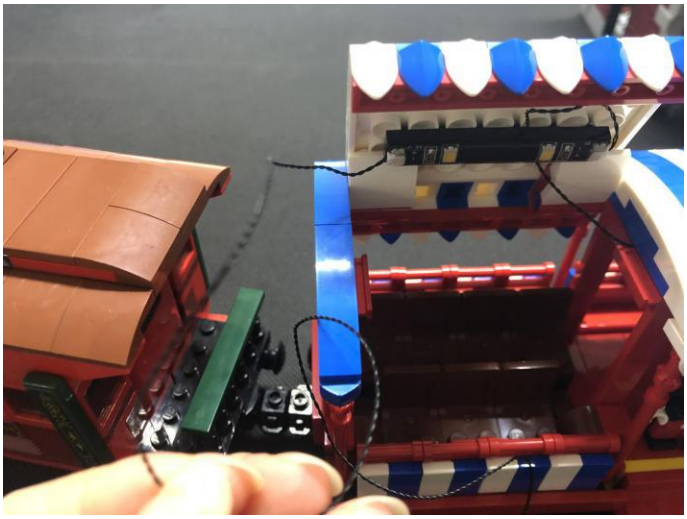
Take a warm white strip light, a 1x6 plate(the colour depends on the package), stick the strip light to the plate as per below



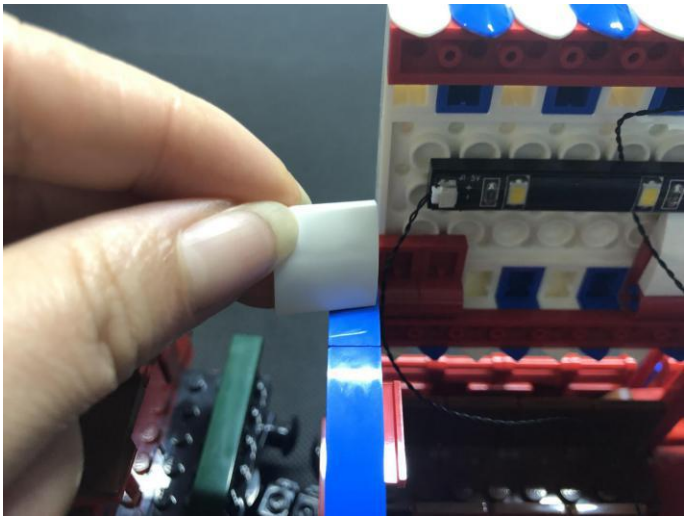
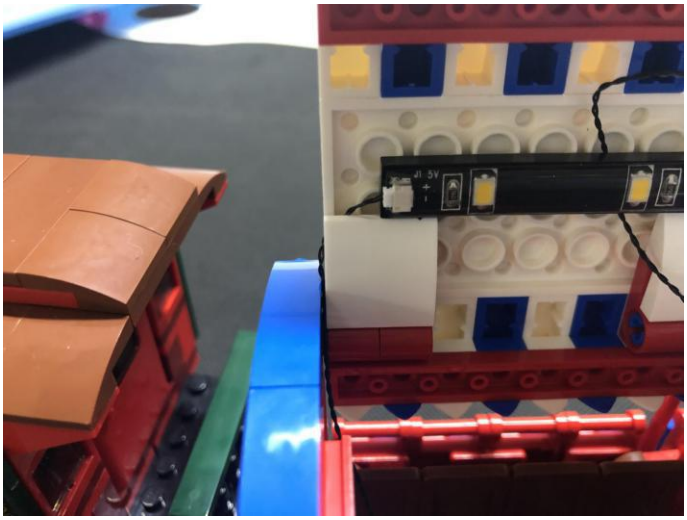

Connect the connecting cable to the strip light, connect the strip light to the roof as per below

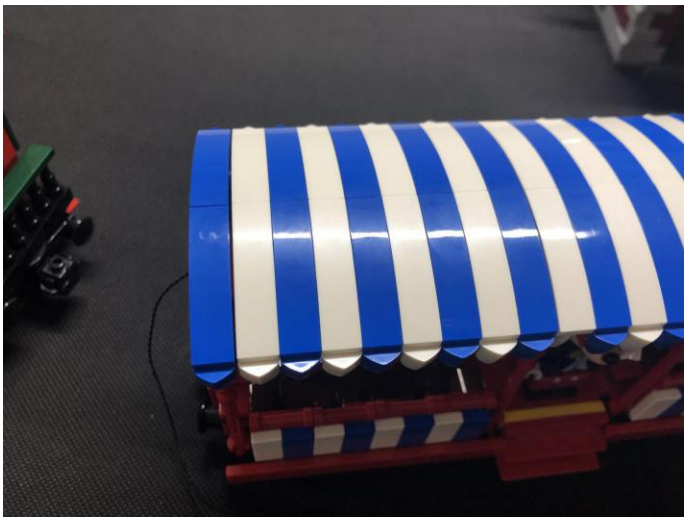
Take a 30cm connecting cable, connect it to the strip light

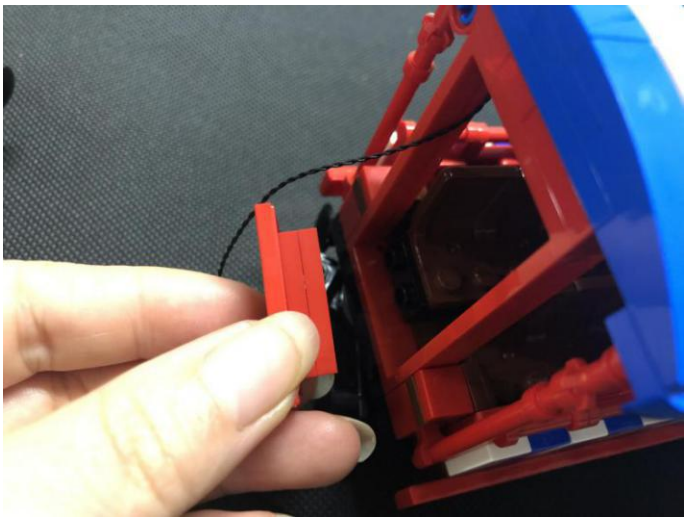
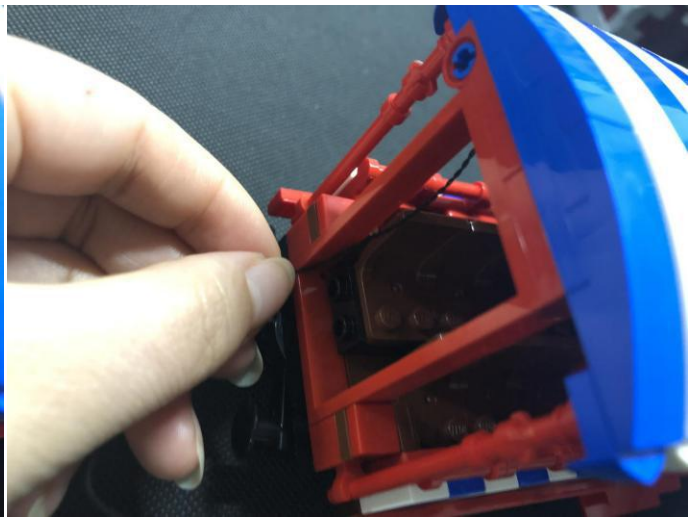
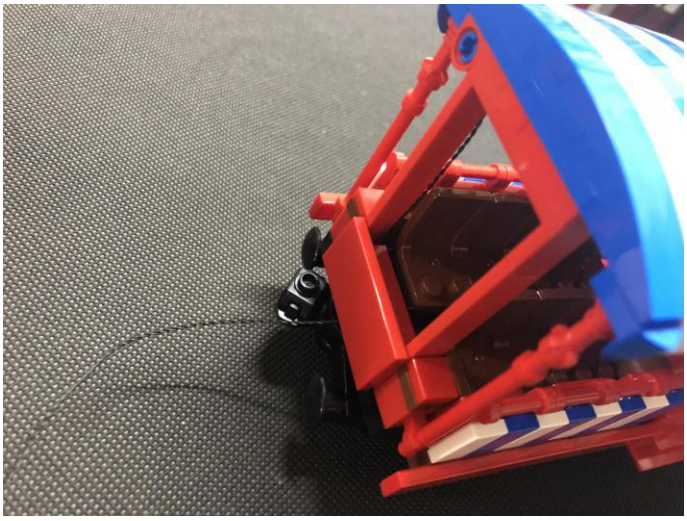
Secure the cable with the following white piece

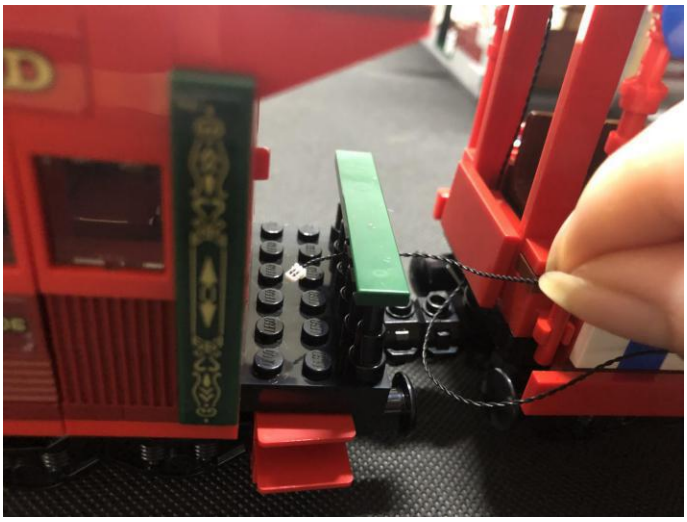
Close the roof, pull the cable out from the following place

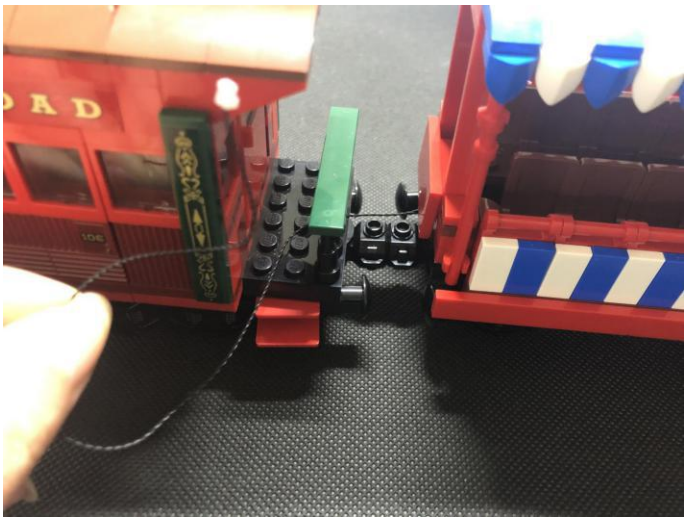



Place the cable alongside the seat and pull it downward as per below, secure the cable with the piece we removed before

Connect the third carriage with the last carriage, thread the cable through the railing



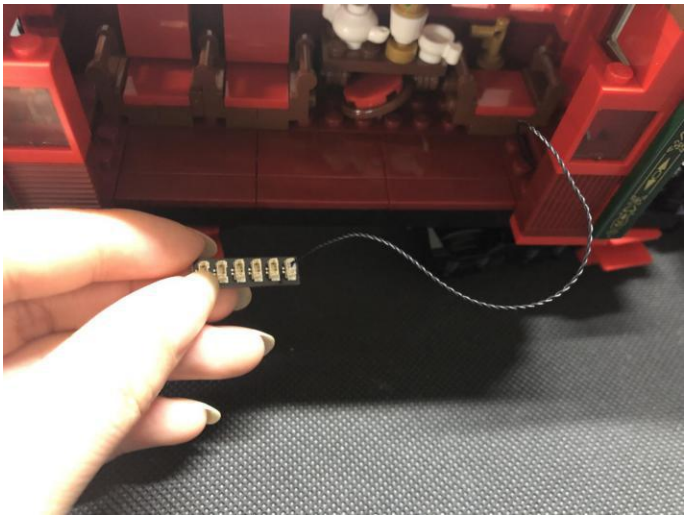
Open the door, and remove the following section of the carriage



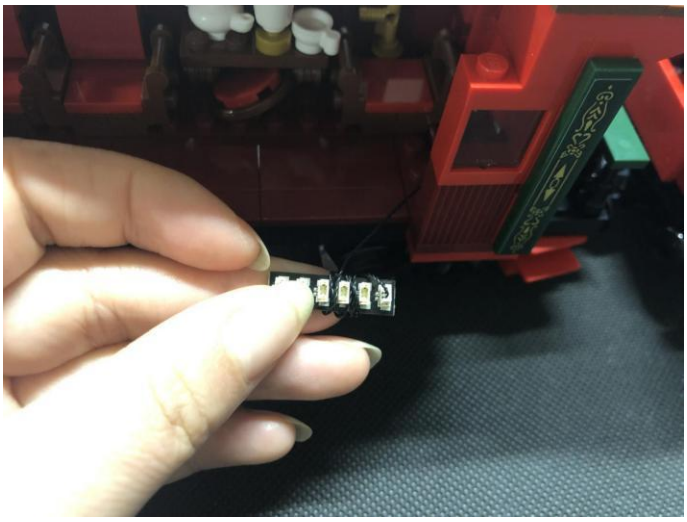
Thread the connecting cable through the door, close the door (note: do not close the door too tightly for it may break the cable)



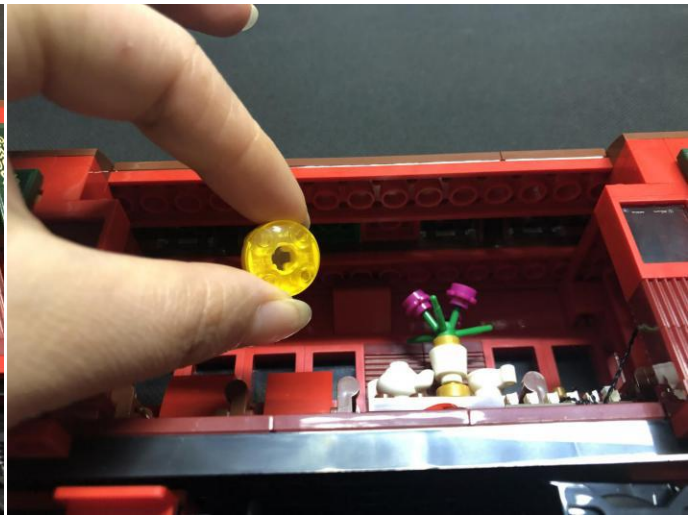
Take a 6-port expansion board, connect the connecting cable to it

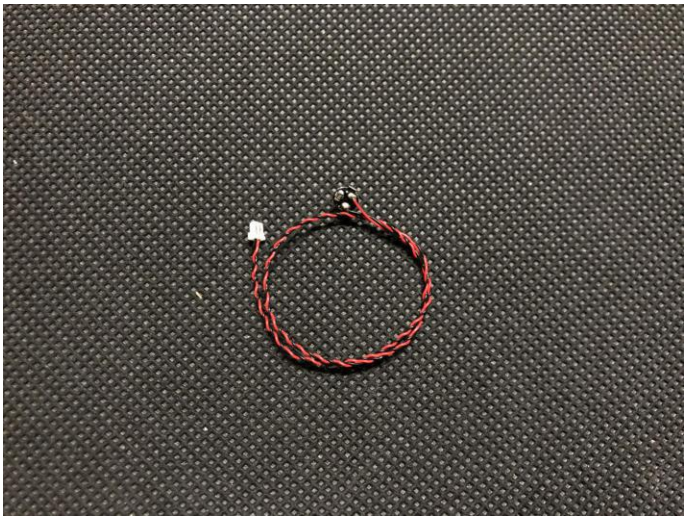
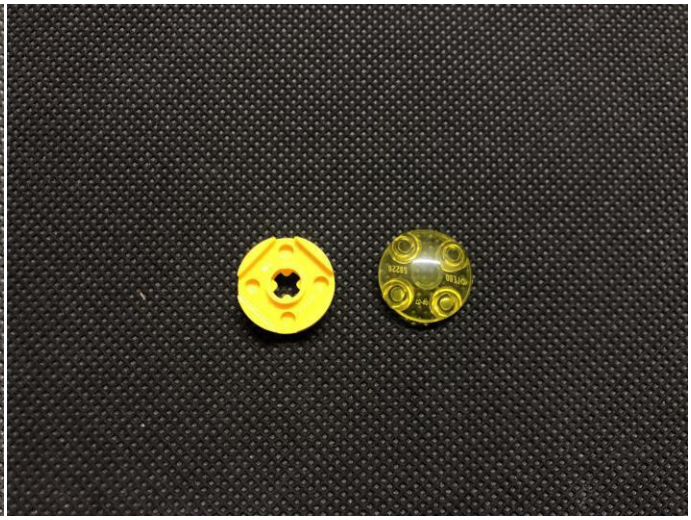
Tuck excess cable, stick the expansion board to the floor with the adhesive squares



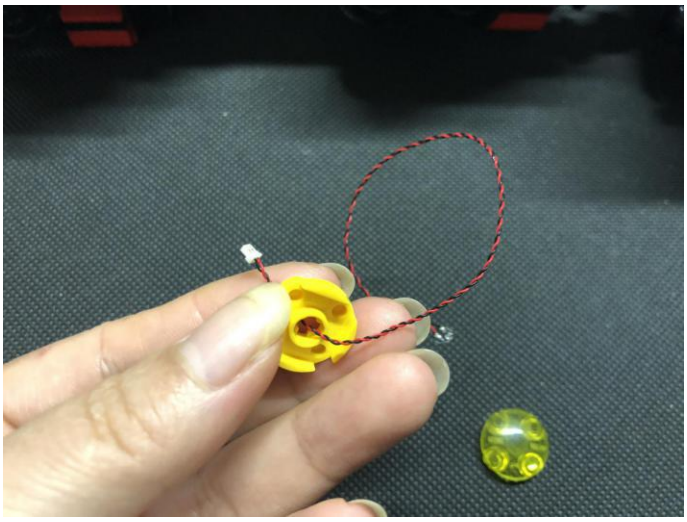
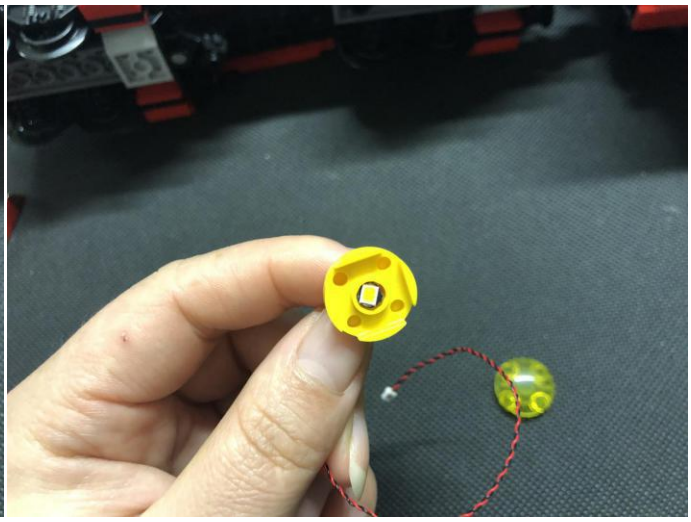
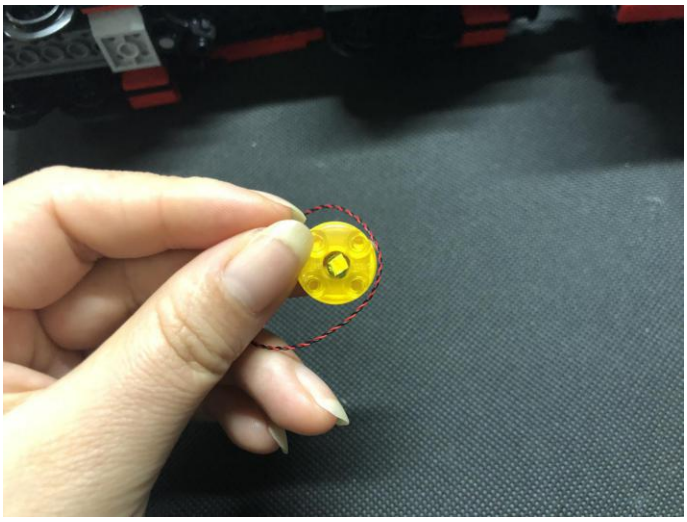

Turn the carriage to its side, remove the following yellow piece.

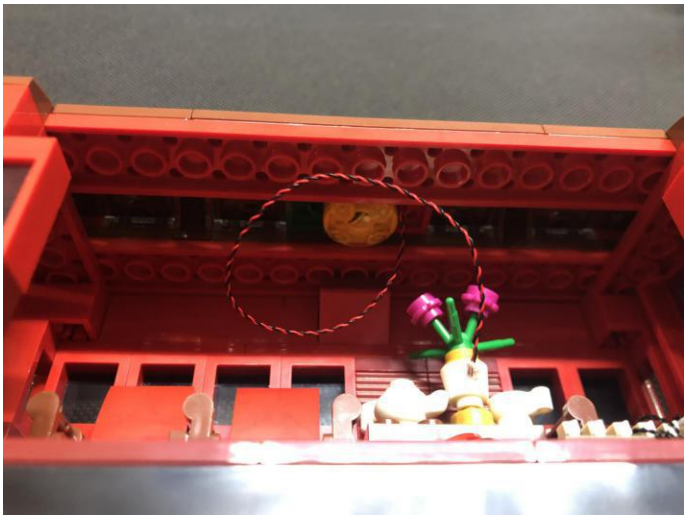
Take a 15cm light, disassemble the yellow piece as per below

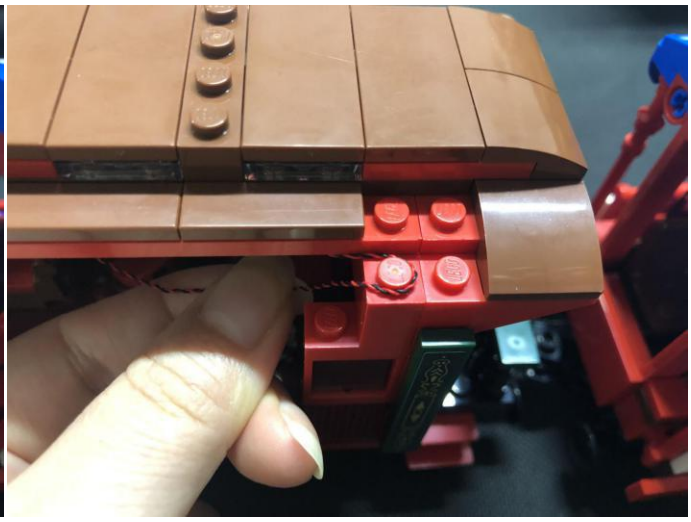
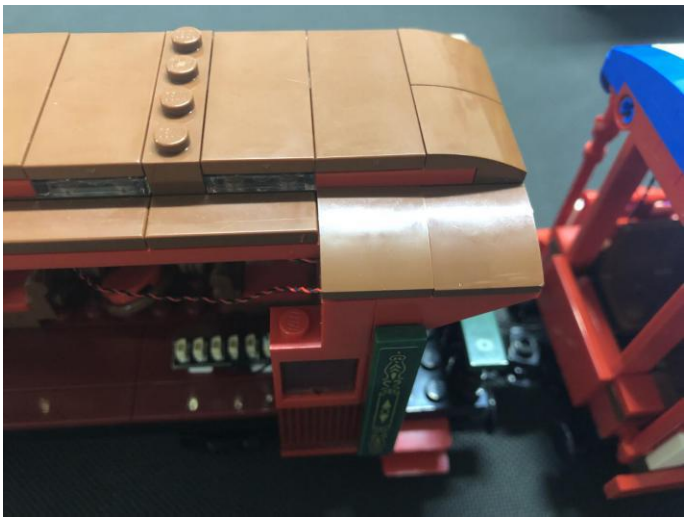
Thread the connector through the yellow piece, pull the cable out till the light is placed against the hole, reconnect the yellow piece to secure the light

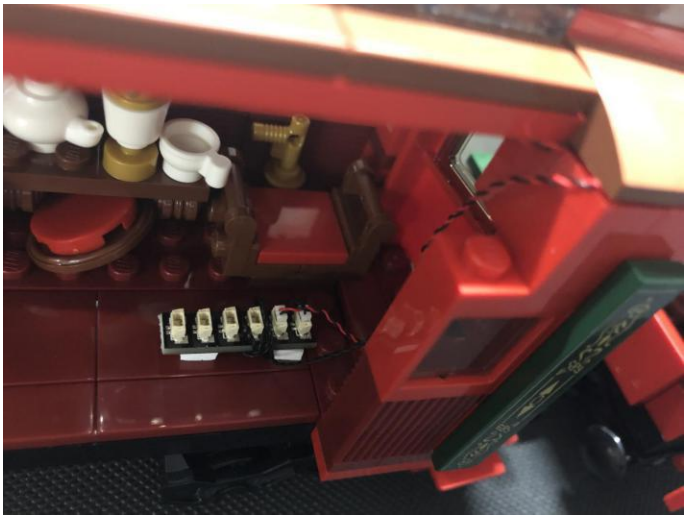
Reconnect the piece, turn the carriage back



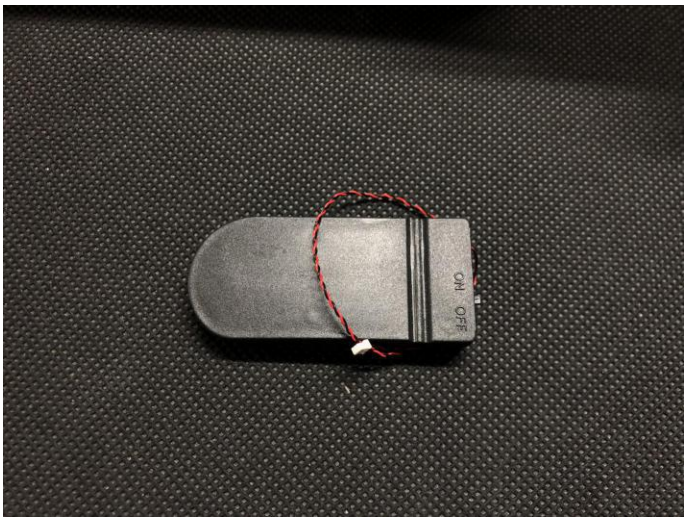

Remove the following piece, place the cable as per below, reconnect the piece we removed to secure the light

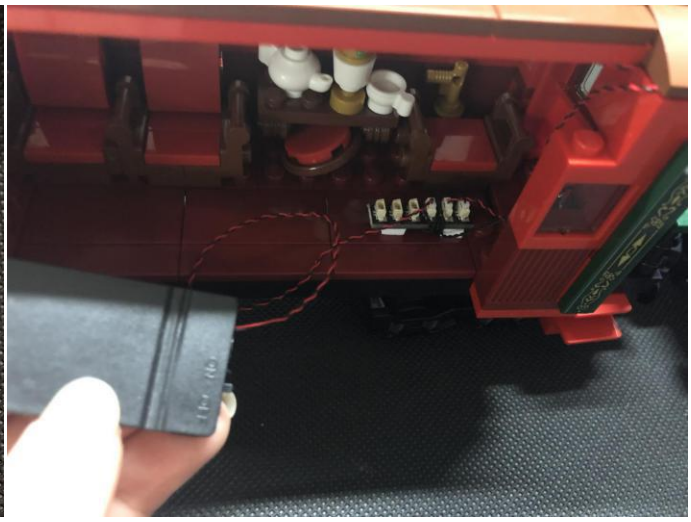




Connect the connector to the expansion board



Take the Round Coin Cell Battery Pack(inserted with batteries), connect it to the expansion board



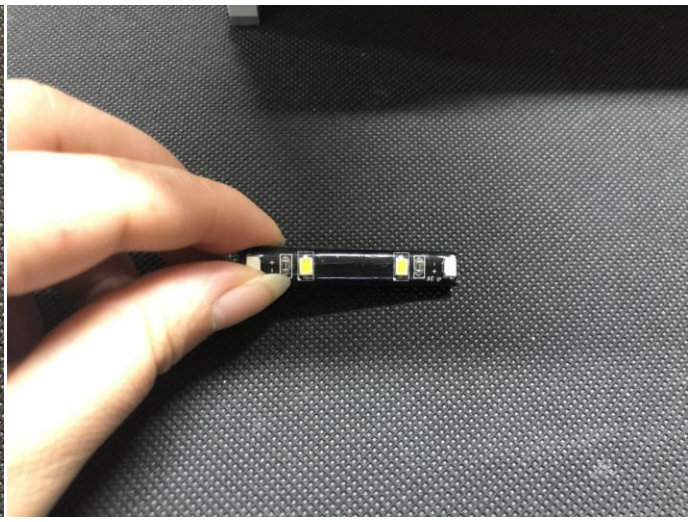


Stick the battery pack to floor with the adhesive squares, turn the power on to verify the current

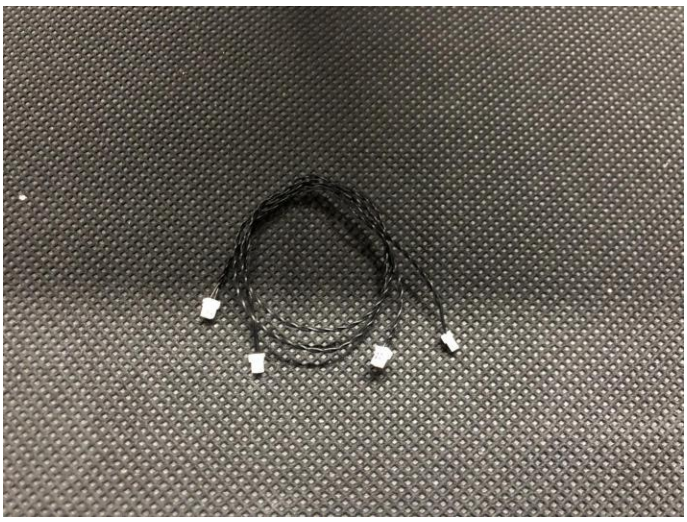

Reconnect the section we removed from the side of the carriage


Move onto installing lights for the station, start from installing lights for the clock


Take a warm white strip light, a 1x6 plate (the colour depends on the package), stick the strip light to the plate as per below

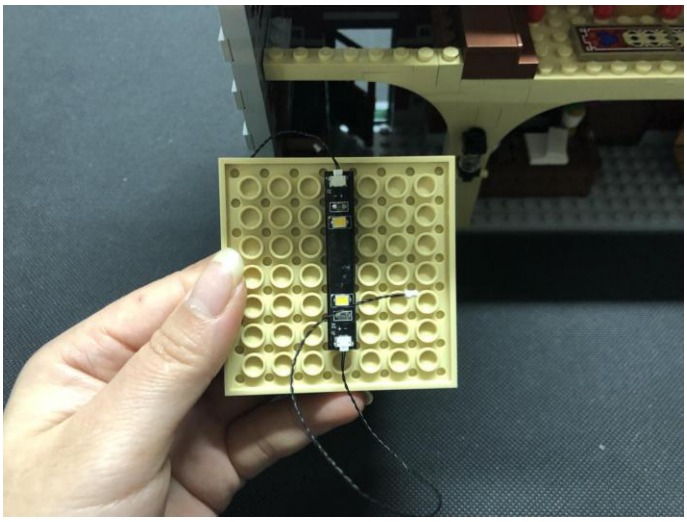



Take two 15cm connecting cables, connect them to the strip light as per below




Remove the base of the second floor as per below

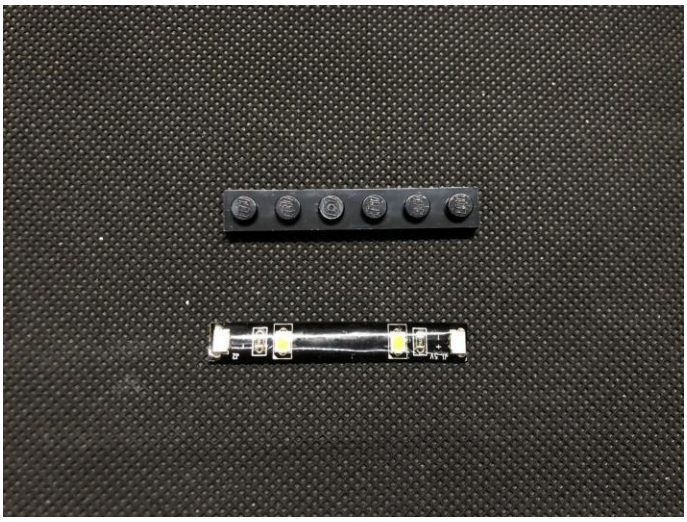

Stick the strip light to the base as per below, pull the cable with faced inside up, and place it at the second floor, reconnect the base



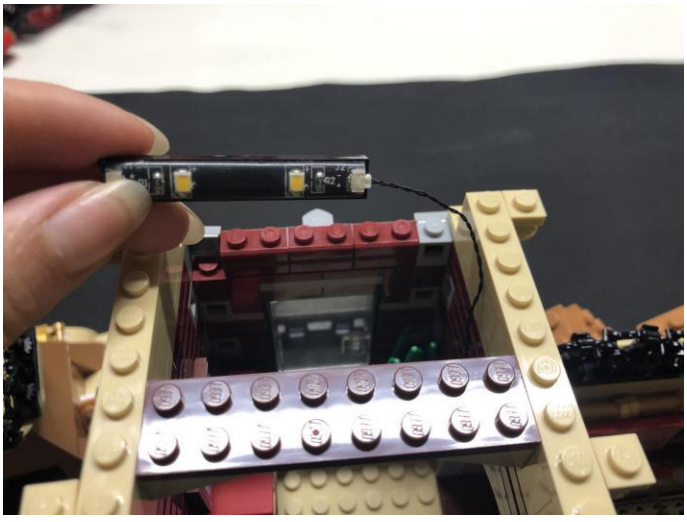

Place the other cable at the hall of the first floor

Remove the third floor as per below

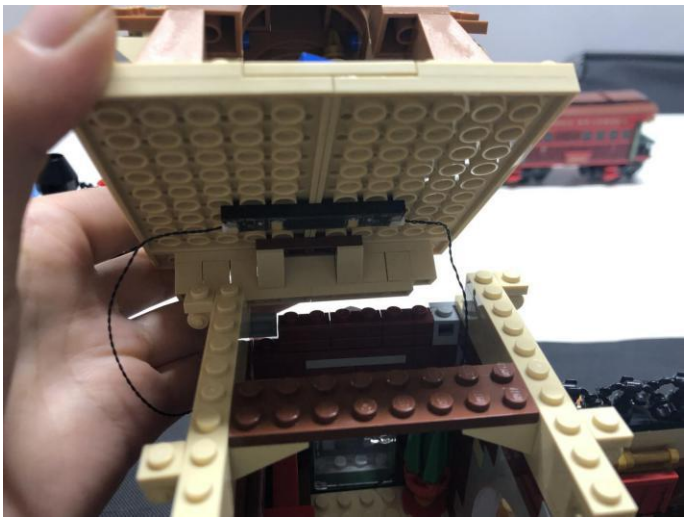
Take a warm white strip light, a 1x6 plate (the colour depends on the package), stick the strip light to the plate



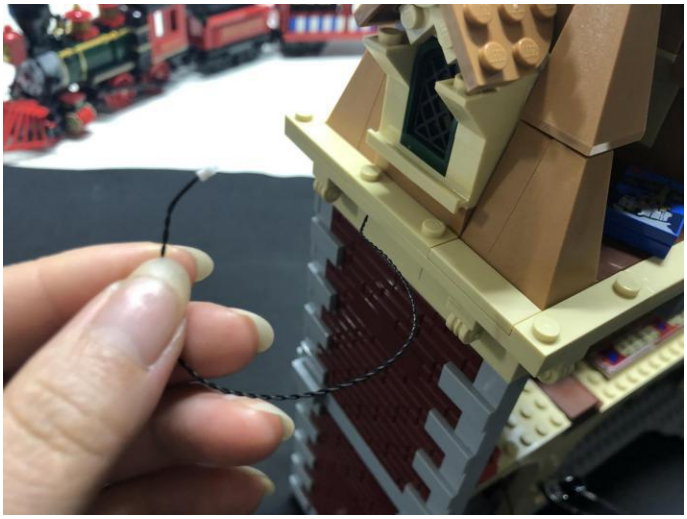
Connect the connecting cable from the second floor to the strip light



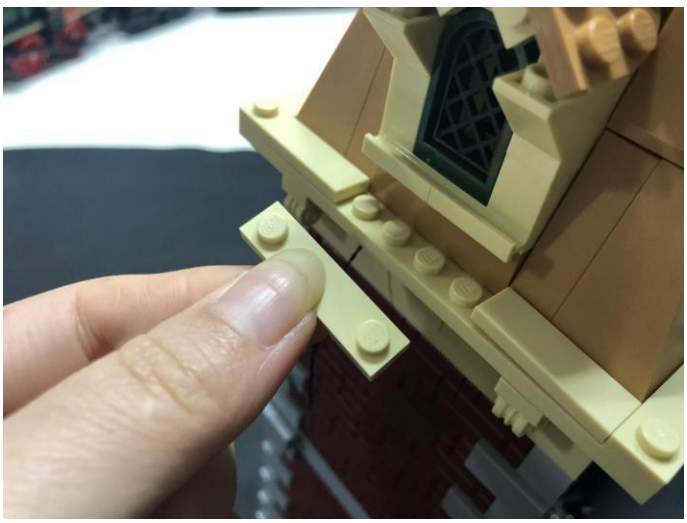
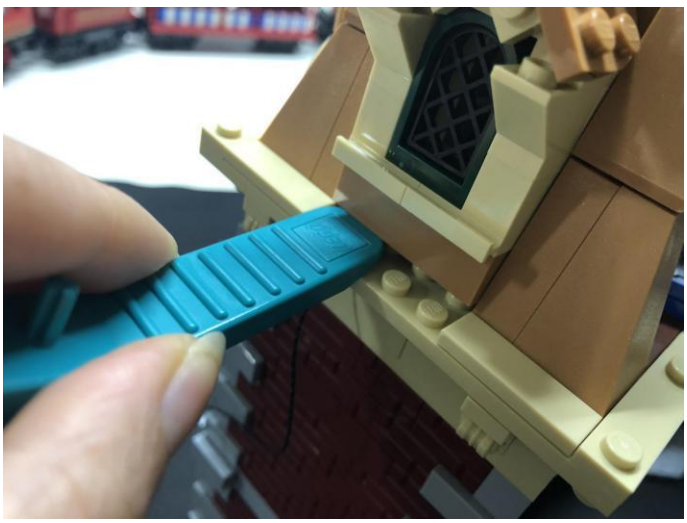
Take a 15cm connecting cable, connect it to the other end of the strip light, stick the strip light to the ceiling of the second floor

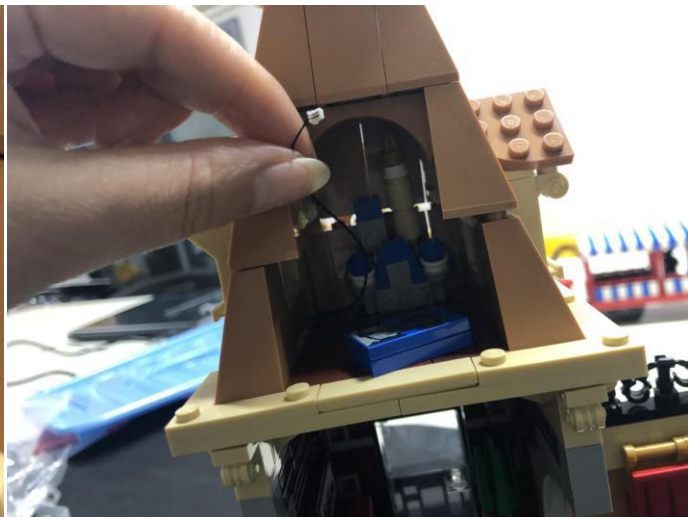
Reconnect the third floor, pull the cable outside the building



Remove the following piece, lift the window with the tool.

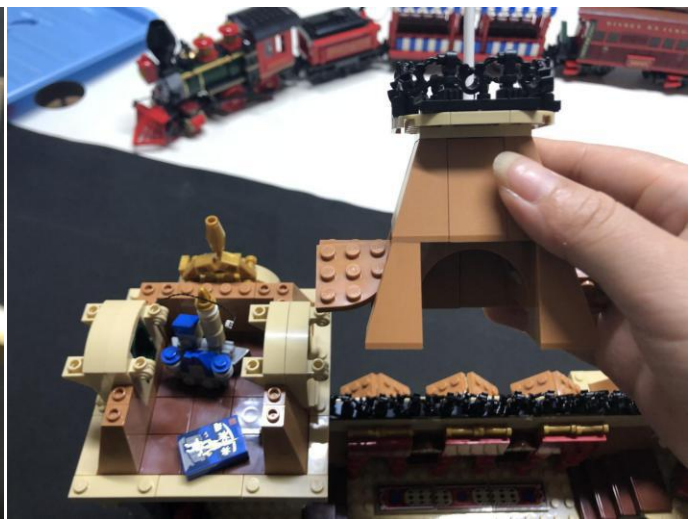



Thread the connecting cable through the space we made at the window to the inside

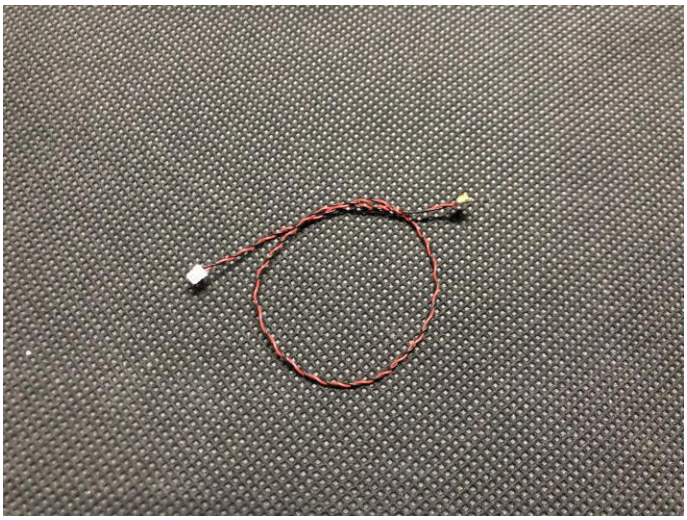
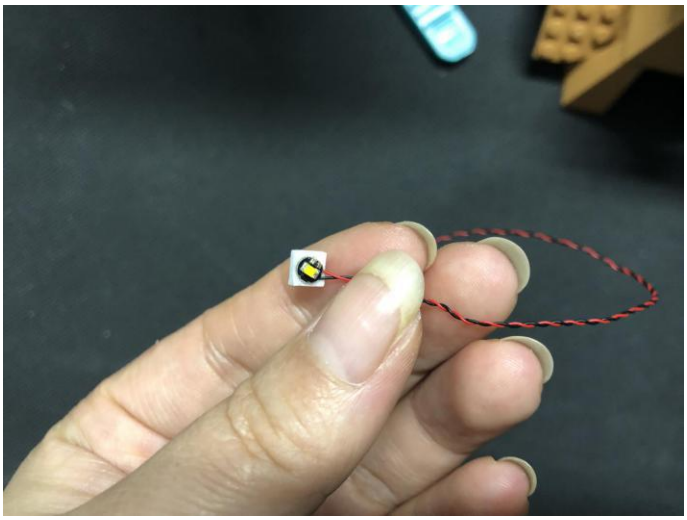



Reconnect the window

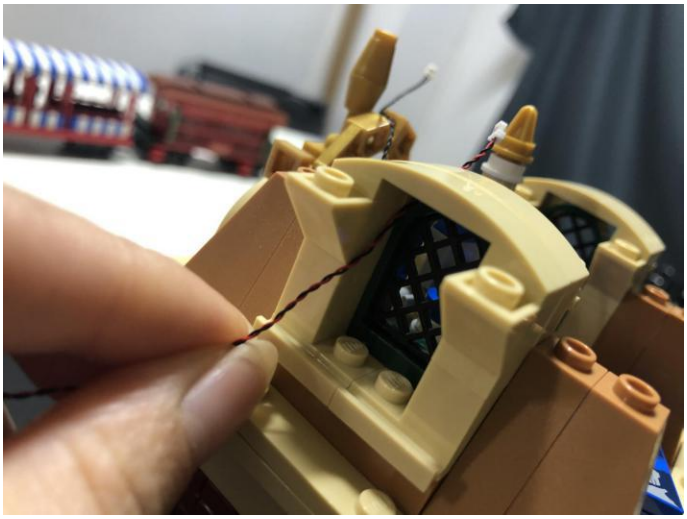
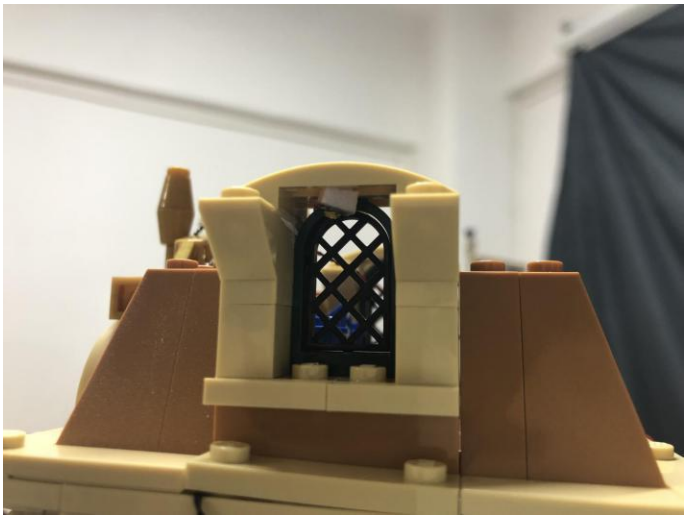
Continue to install light for the window(window#1), remove the following piece

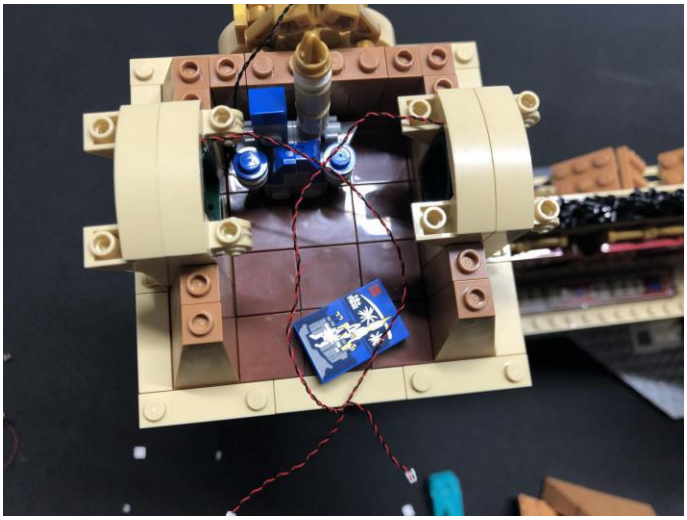
Take a warm white 15cm dot light, stick an adhesive square to the back of the light

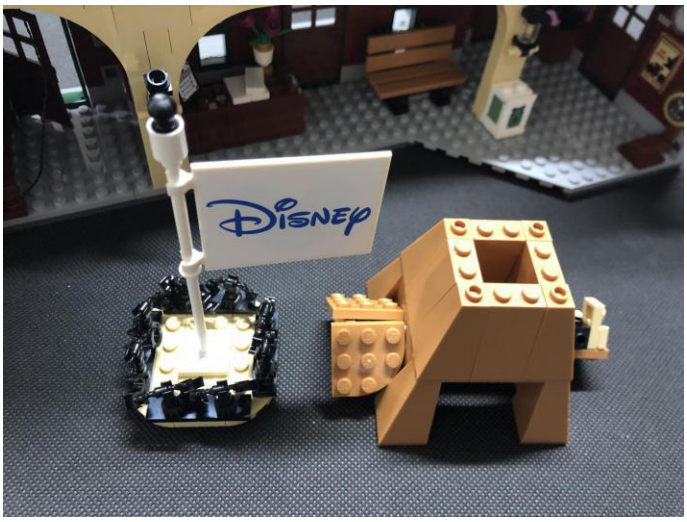
Thread the connector through the following space, and stick the light to the following place

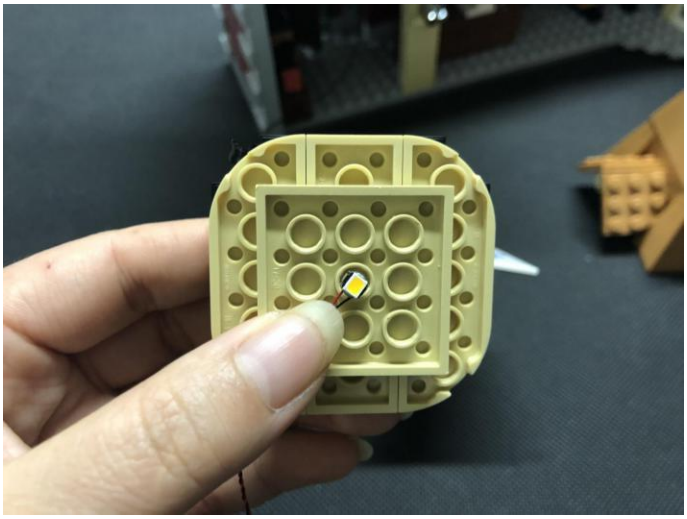
Take another warm white 15cm dot light, repeat the steps above to install light for window#2



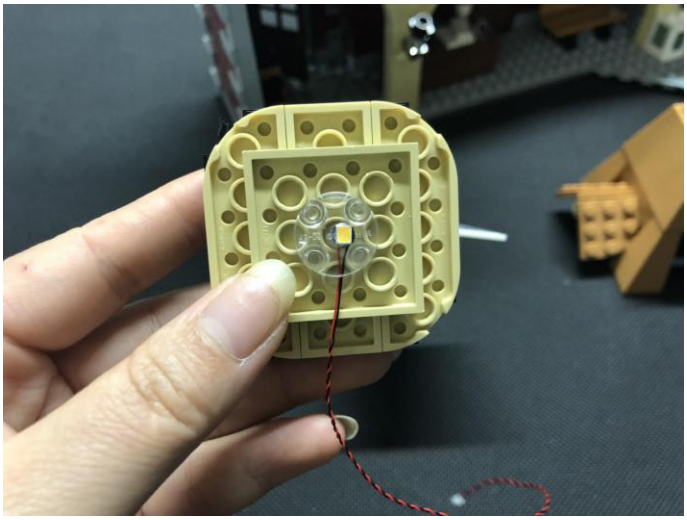
Remove the top floor



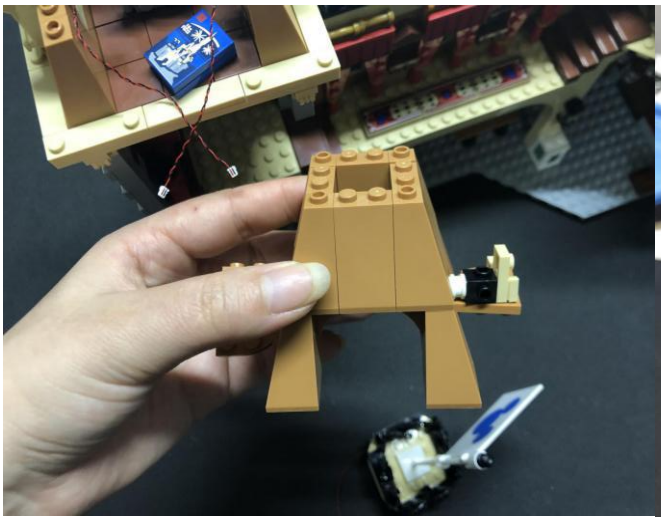
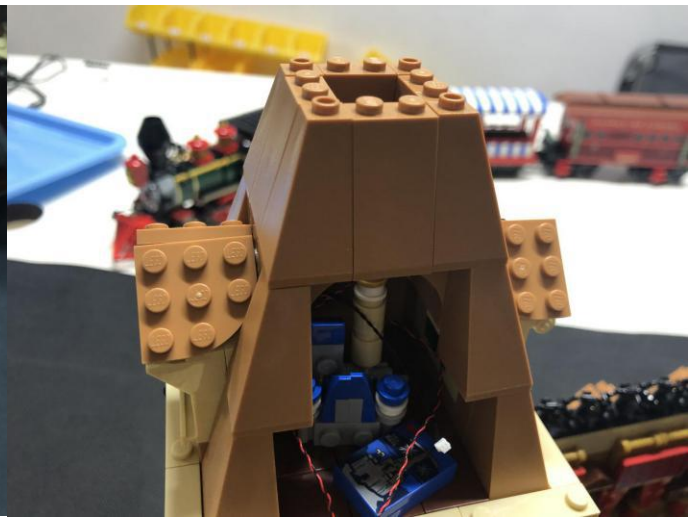

Take a 15cm light, a 2x2 trans round piece, connect the light to the following place



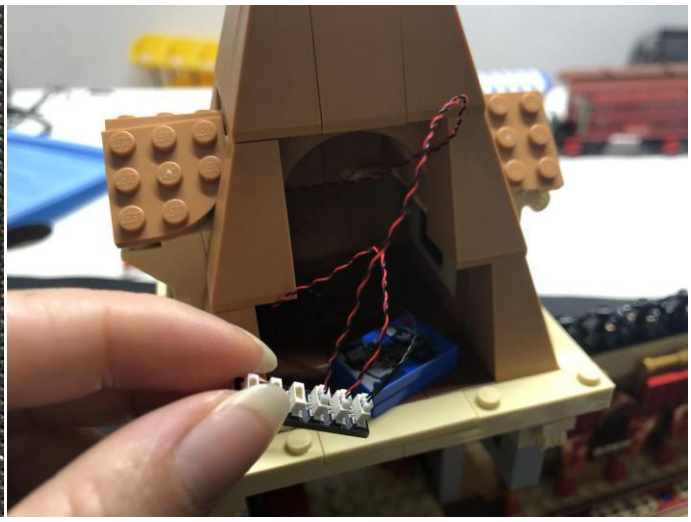
Secure the light with the 2x2 trans round piece



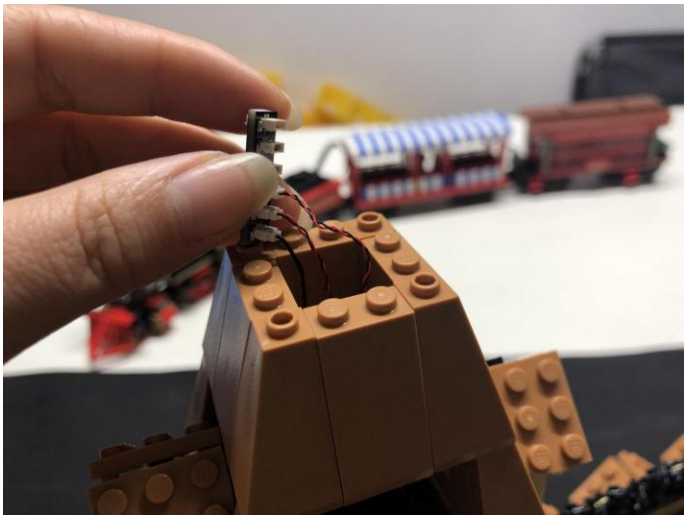
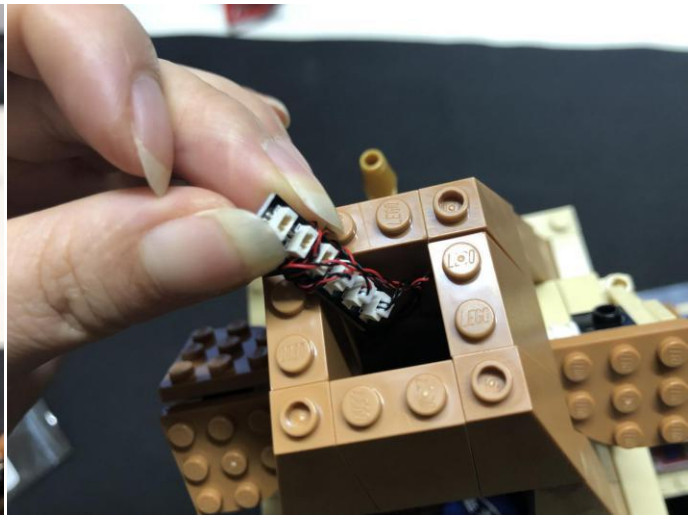
Reconnect the following section

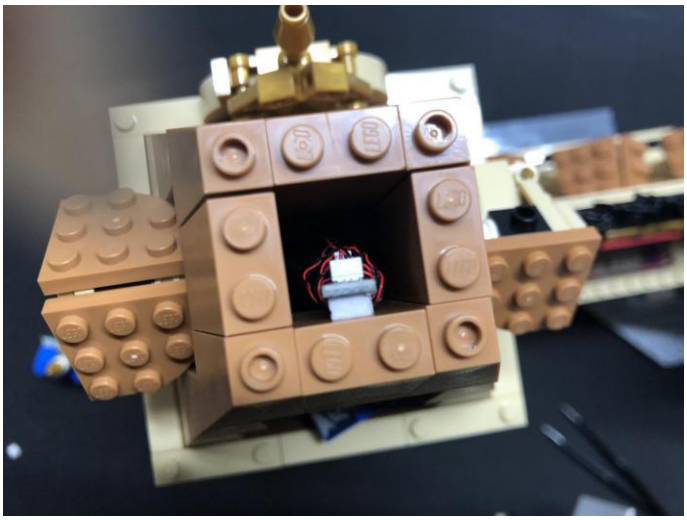
Take a 6-port expansion board, connect the cables form the 2 windows, and the cable from the second floor to the expansion board

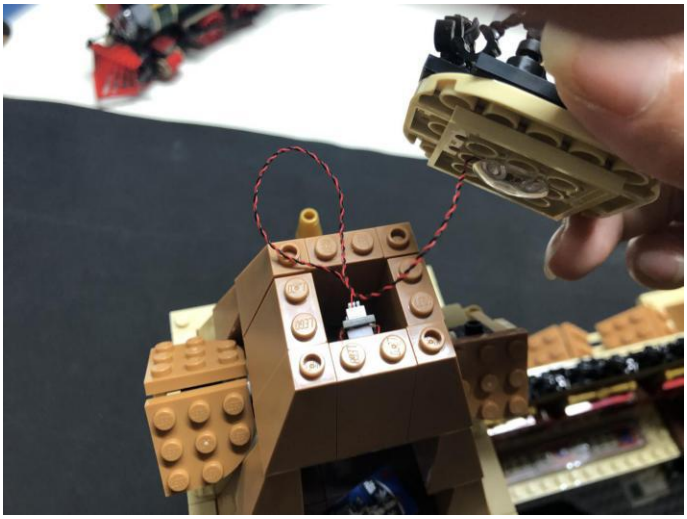
Pull the expansion board out from the following place, tuck excess cables as per below

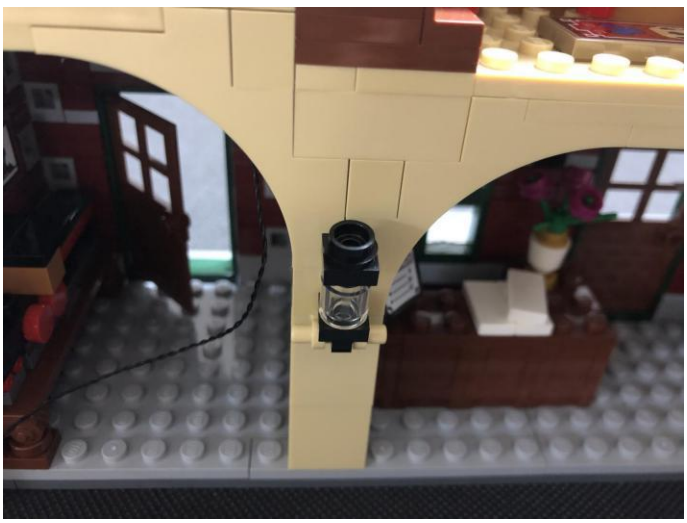
Stick the expansion board to the following place with adhesive squares

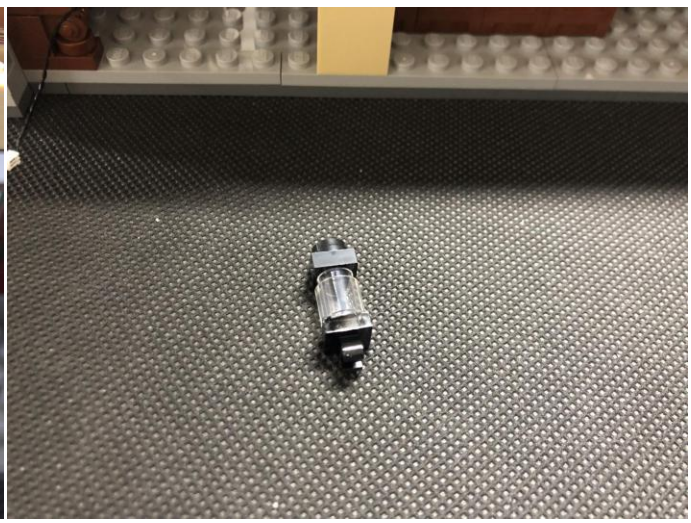


Connect the cable of the light from the roof to the expansion board, reconnect the roof

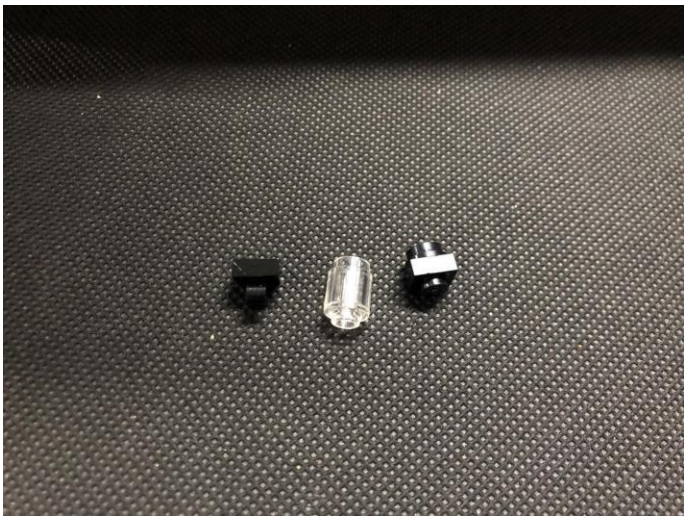


Continue to install lights for the wall lamp at the first floor, remove the lampshade

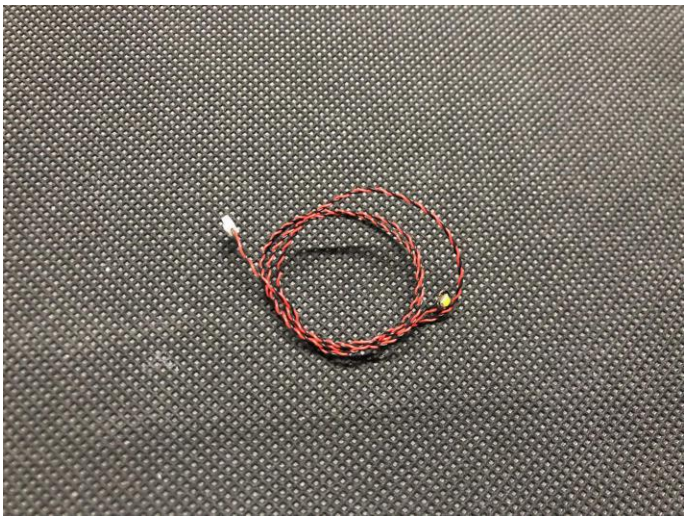


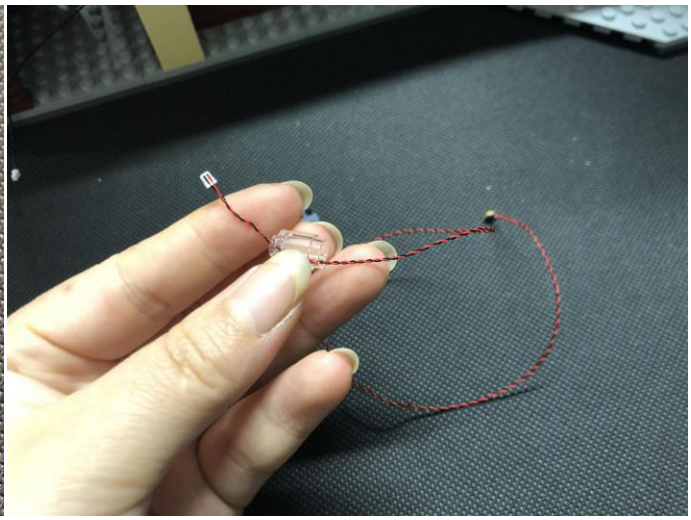


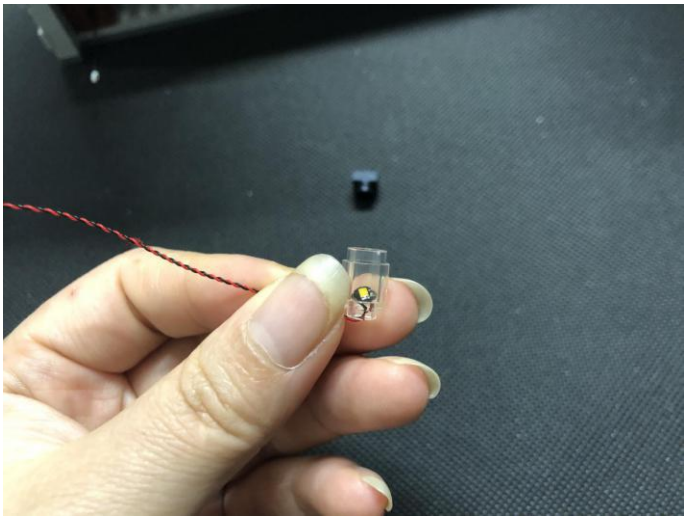
Disassemble the lampshade as per below



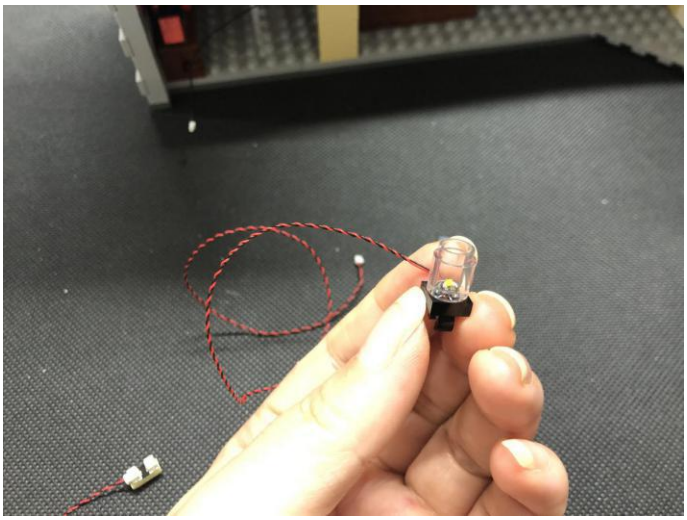
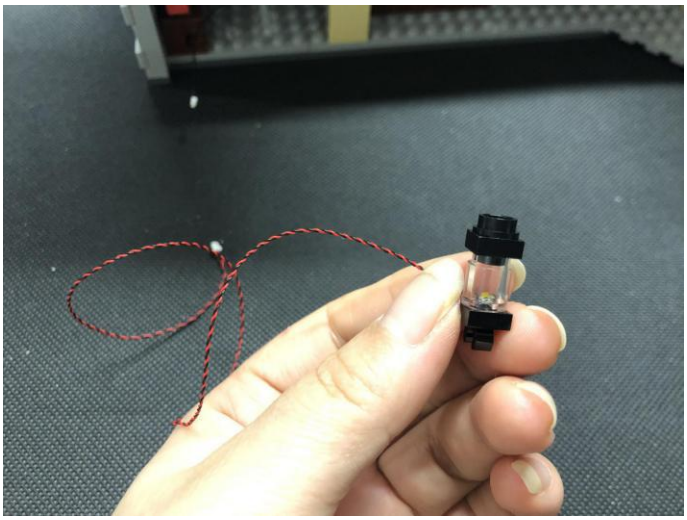
Take a warm white 30cm dot light, thread the connector through the lampshade, pull the cable out toll the light is placed against the lampshade



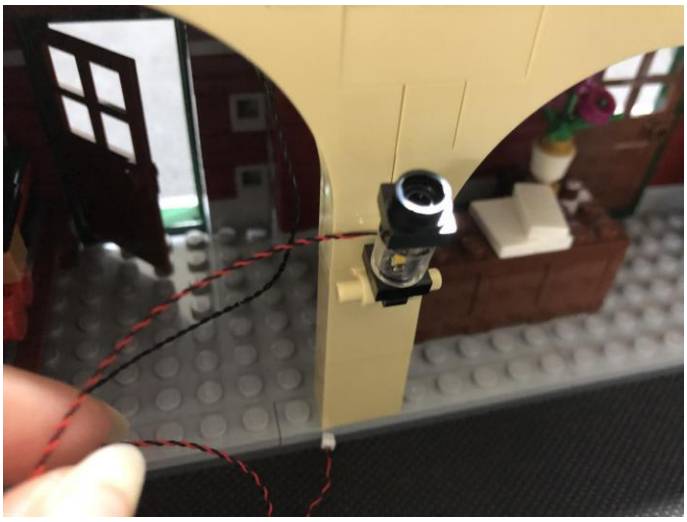
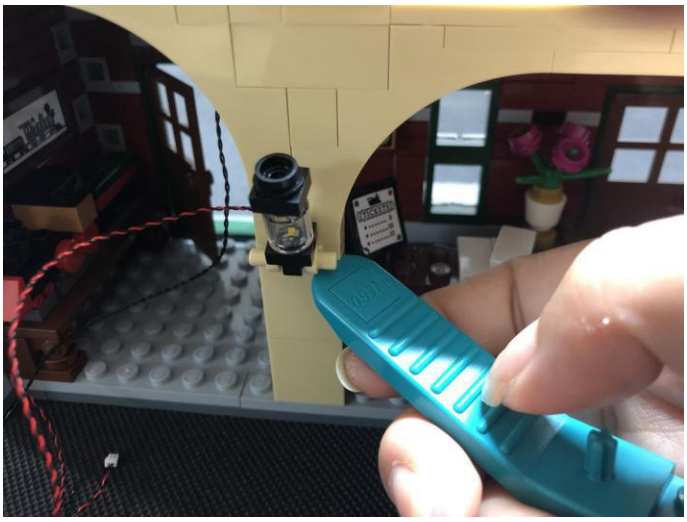


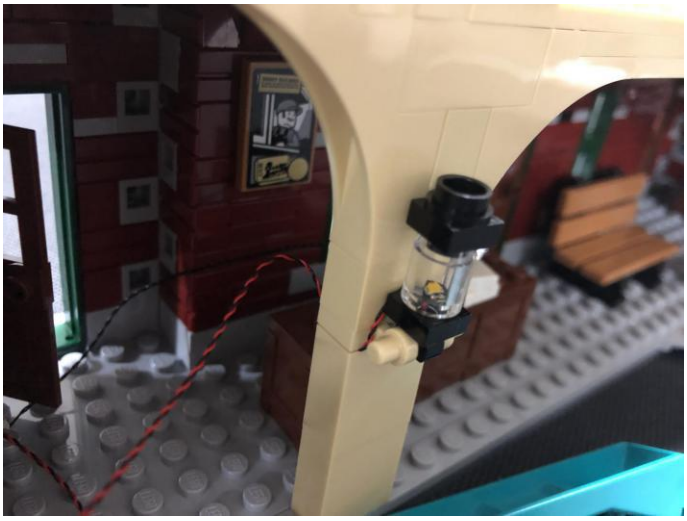


Reconnect the lampshade

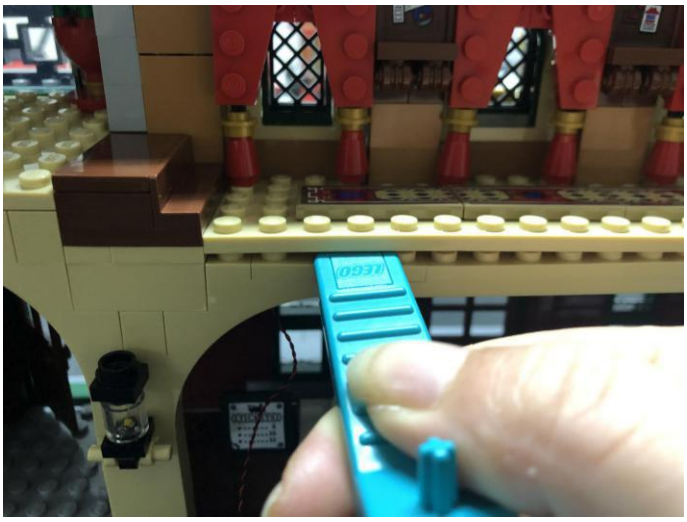
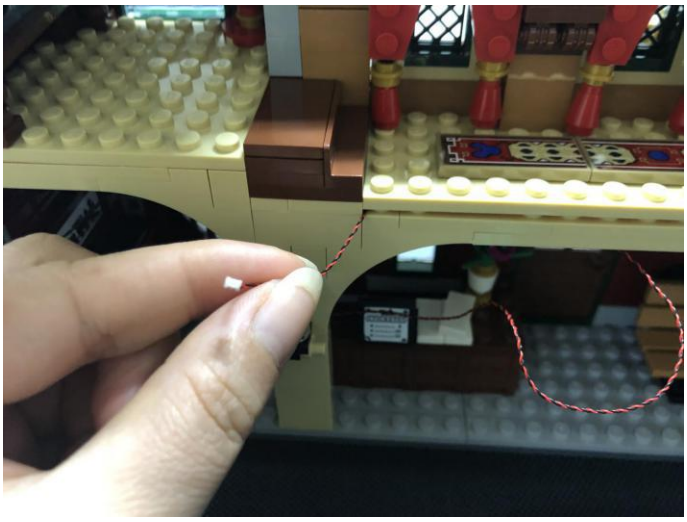



Reconnect the wall lamp, make a gap on the wall with the tool to secure the cable as per below

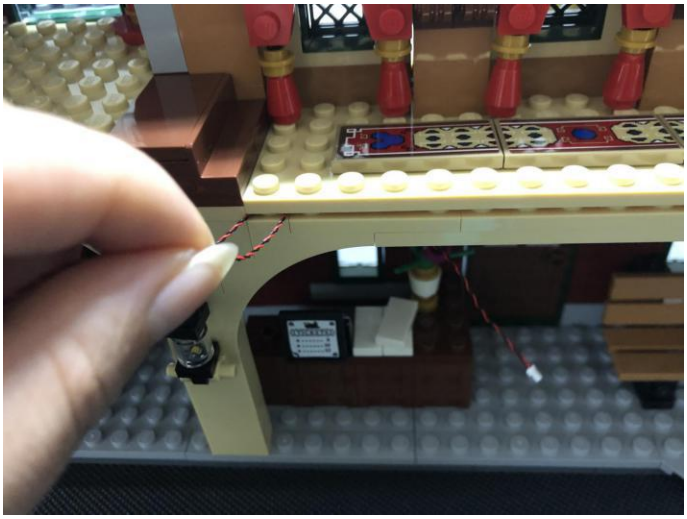





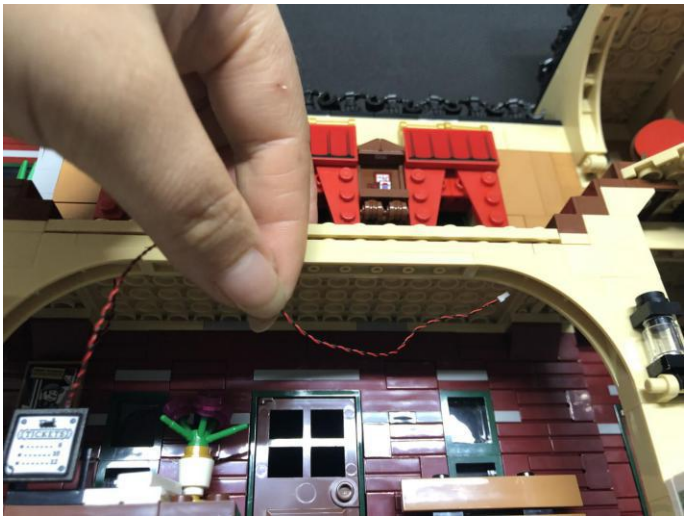
Lift the base of the second floor, thread the cable through the gap

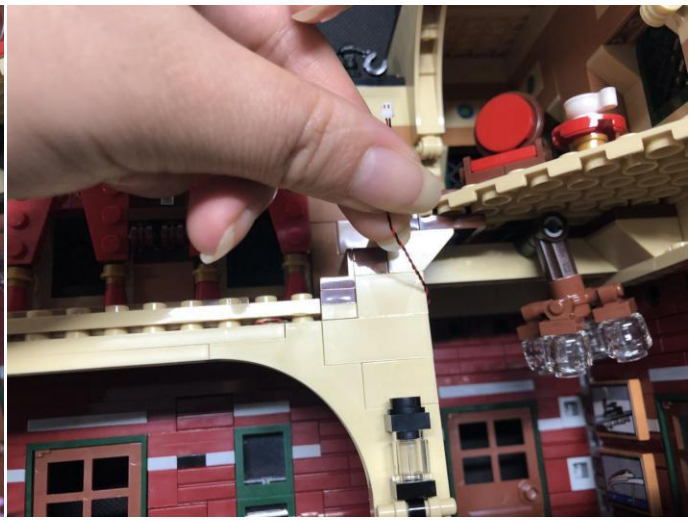
Then, thread the cable to the inside




Pull the cable rightward, thread it through the gap, and pull it out



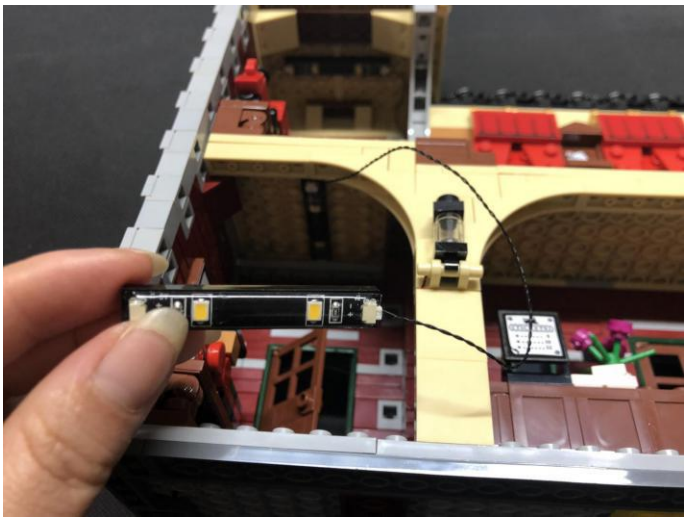
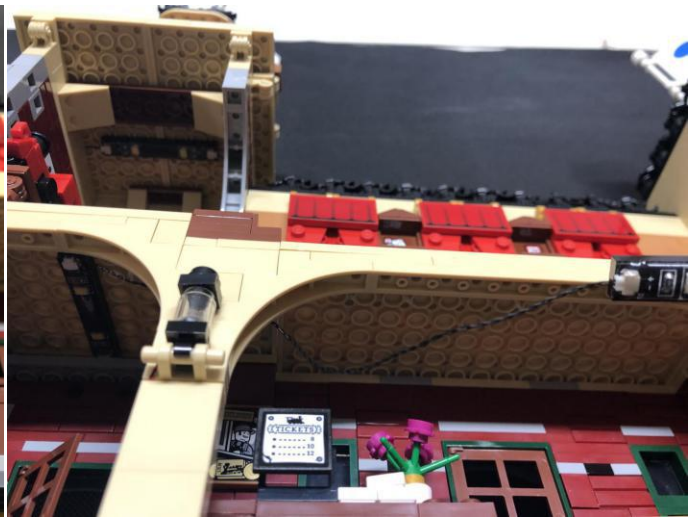

Thread it to the inside again, then, pull it out as per below

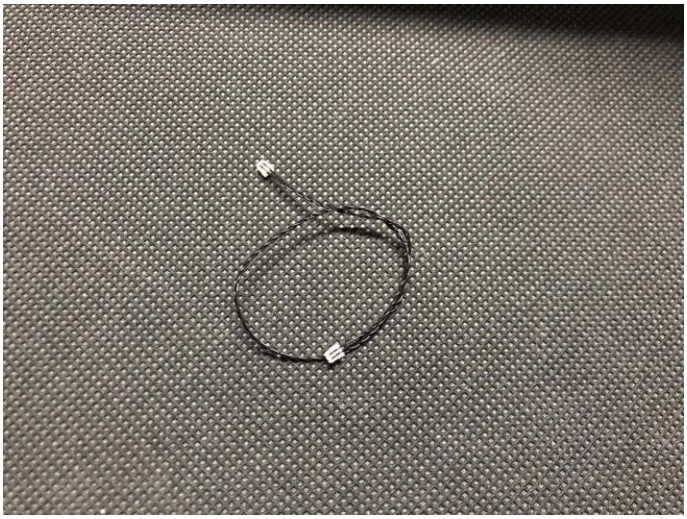
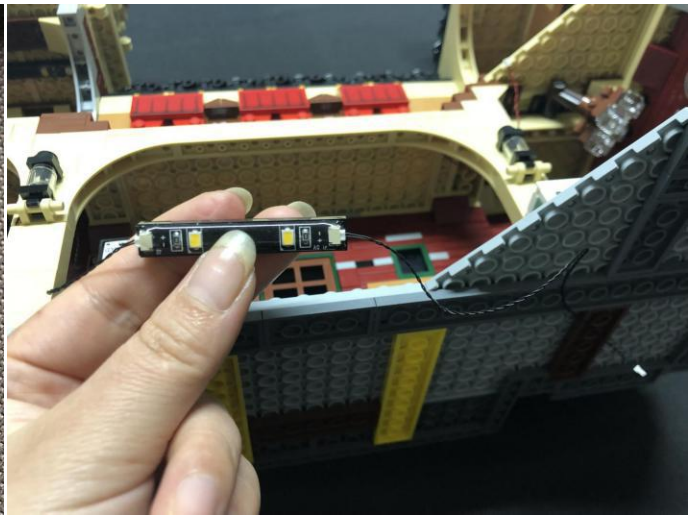
Reconnect the piece we lifted

Take a warm white strip light, a 1x6 plate (the colour depends on the package), stick the strip light to the plate


Connect the cable from the first floor to the strip light, and pull it rightward

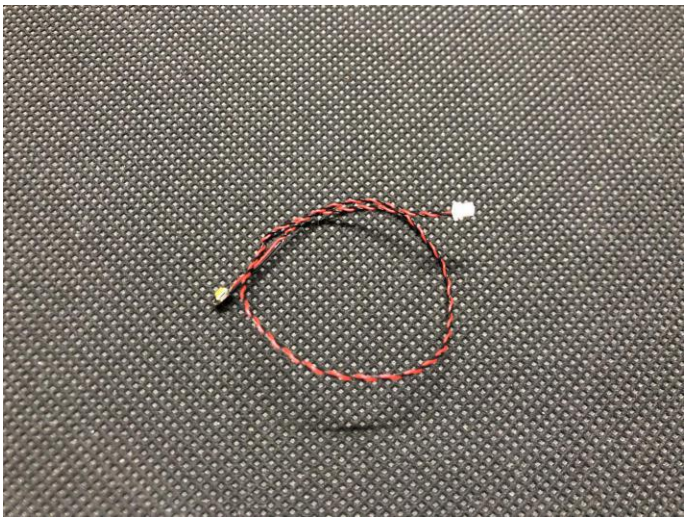
Take a 15cm connecting cable, connect it to the other end of the strip light

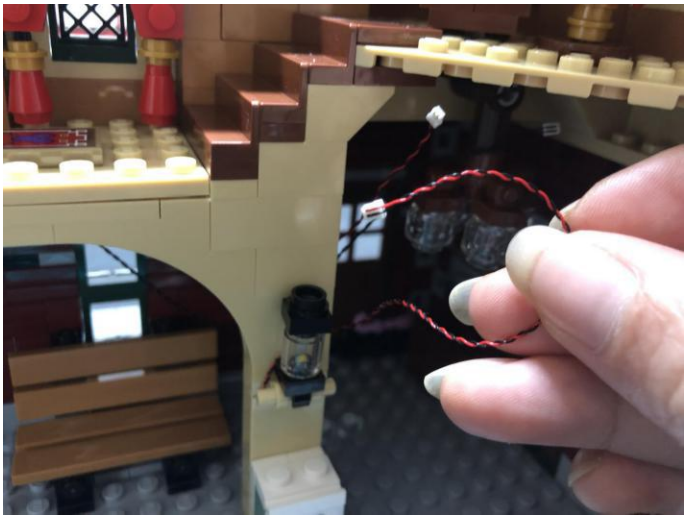
Connect the strip light to the ceiling of the hall, pull the cable rightward


Continue to install light for the wall lamp at front of the seat

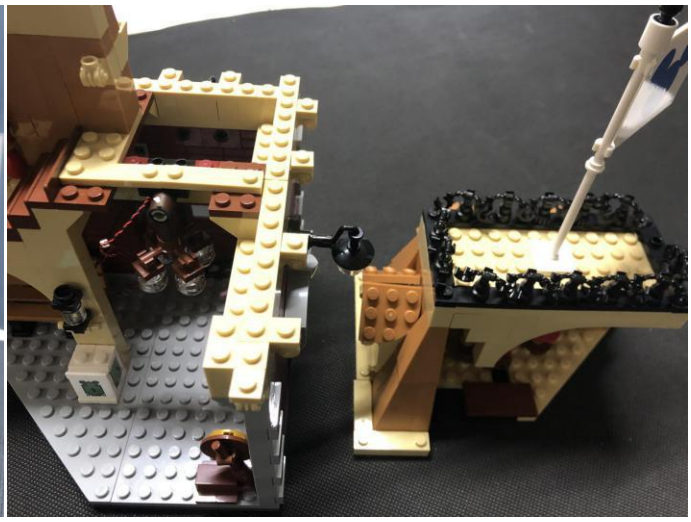
Take a warm white 15cm dot light, follow the steps we did for the previous lamp to install this one, reconnect the lamp



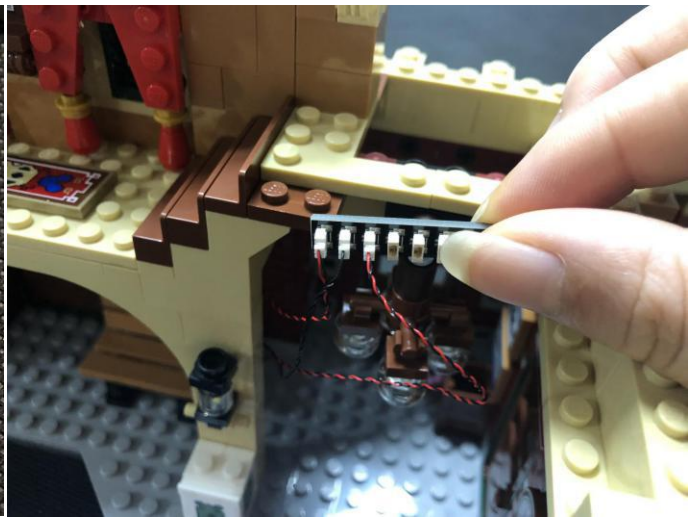
Pull the cable out from the right side



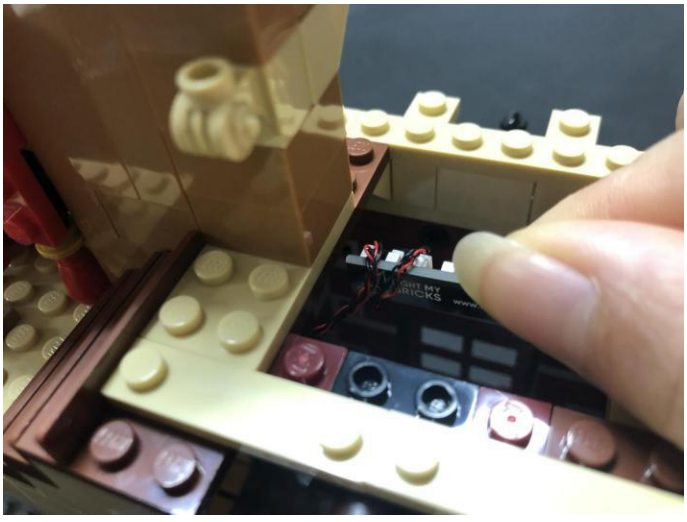
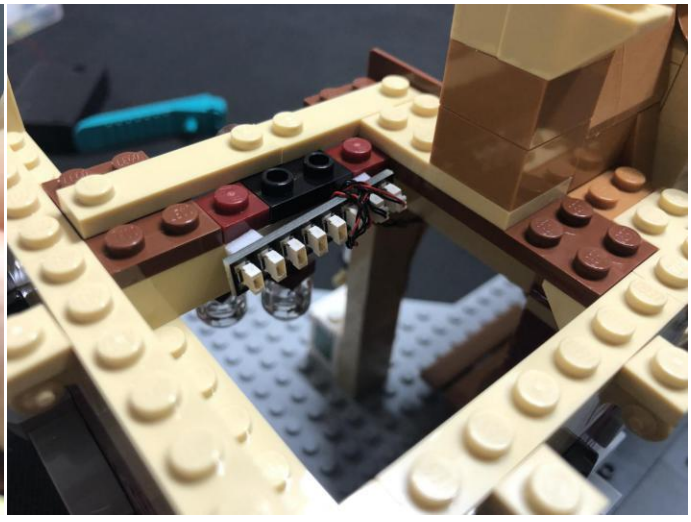
We will now move onto installing lights for another building, remove the second floor

Take a 8-port expansion board, connect the cables of the wall lamps and the strip light to it

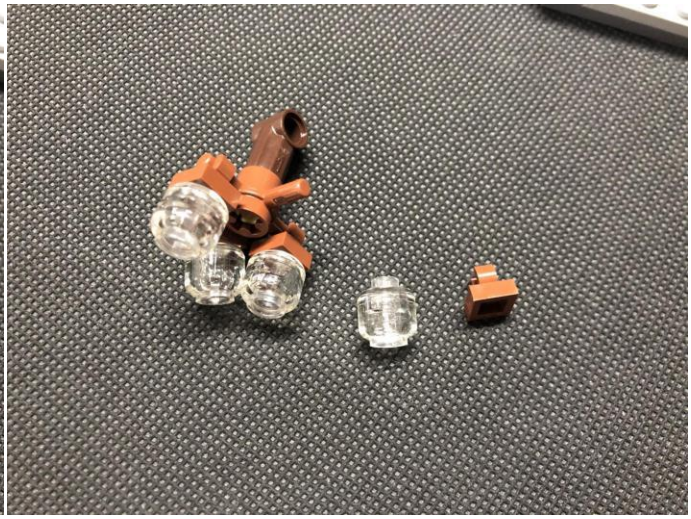



Tuck excess cables, stick the expansion board to the following place with adhesive squares

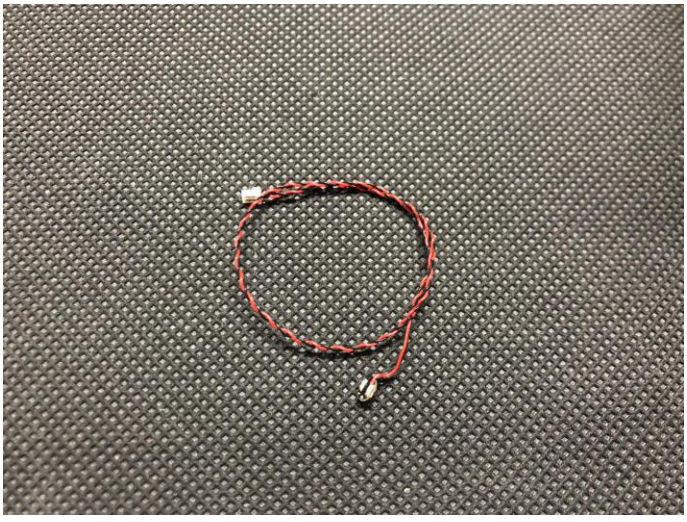



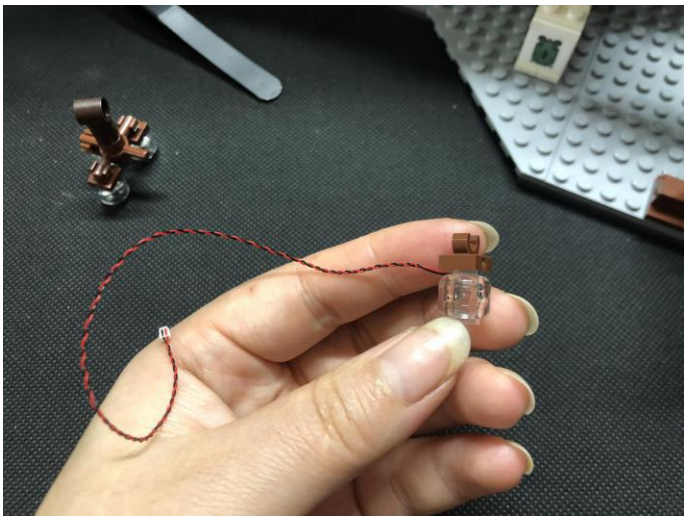
Remove the chandelier


Disconnect one of the lampshade and disassemble it as per below

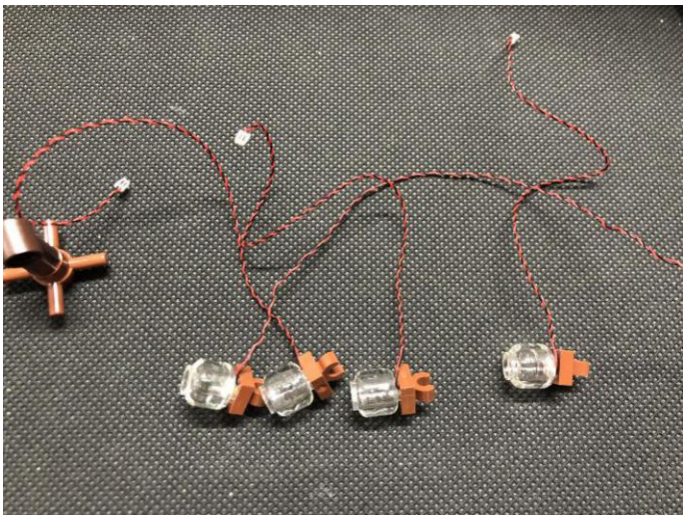



Take a warm white 15cm dot light, place the light on the light brown piece, reconnect the lampshade

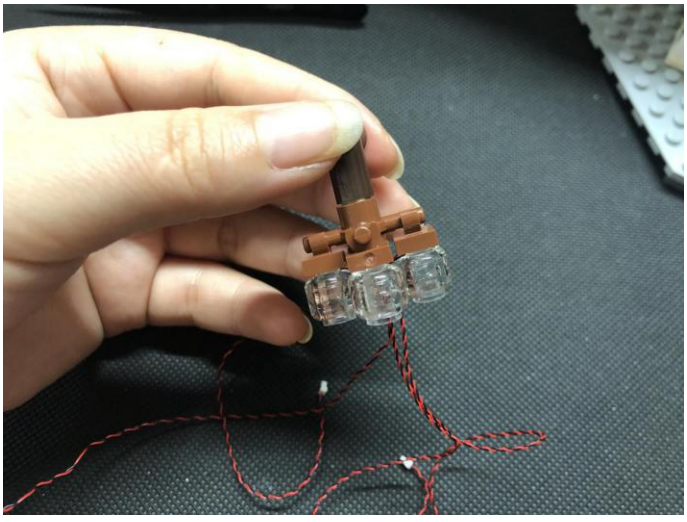


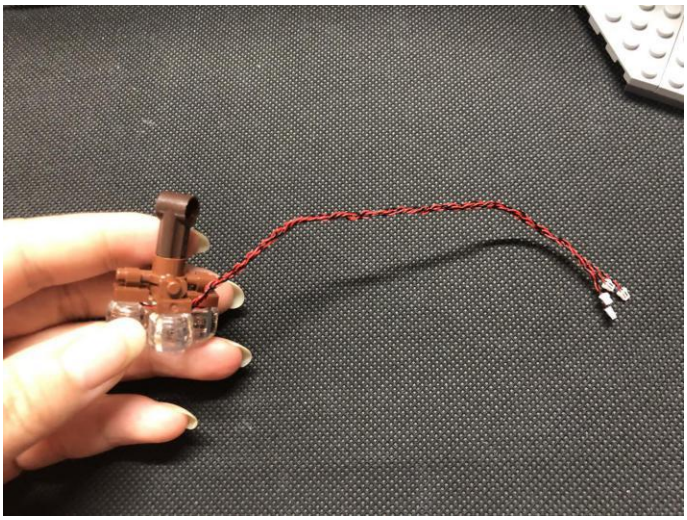
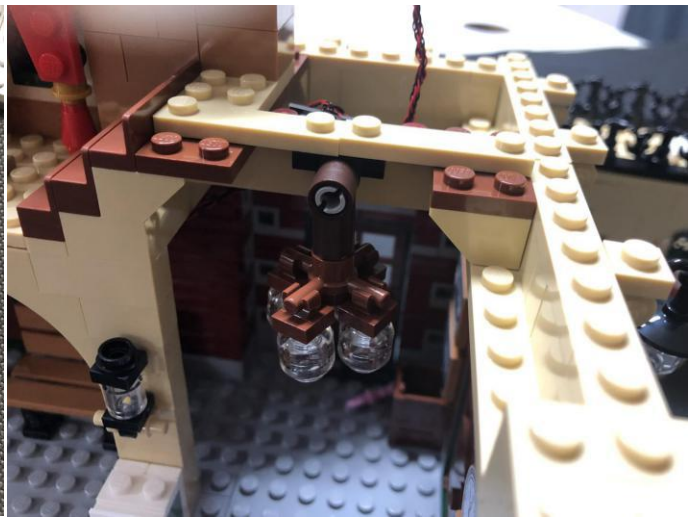
Take another 3 warm white 30cm dot lights, repeat the steps above to install the other 3 lamps



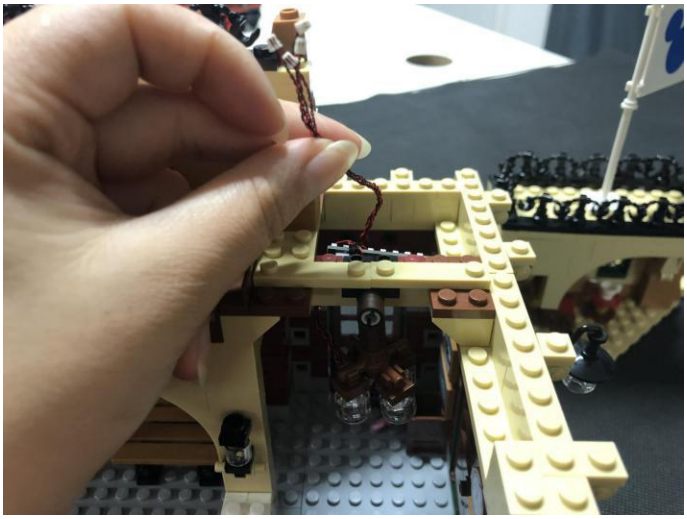
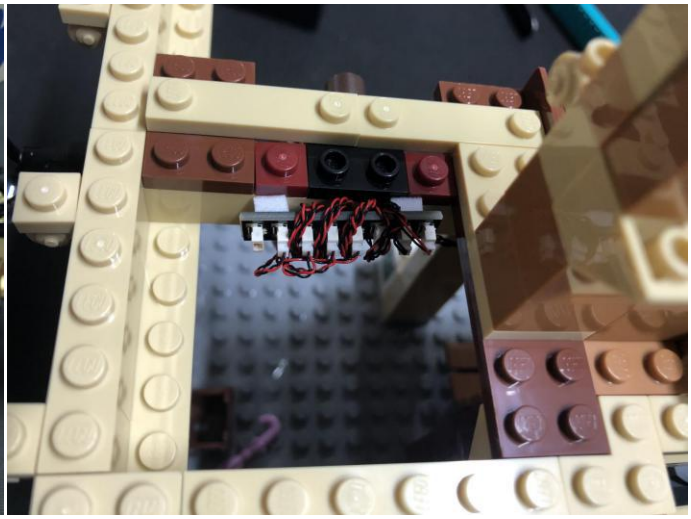
Reconnect the 4 lights back to the lamp post



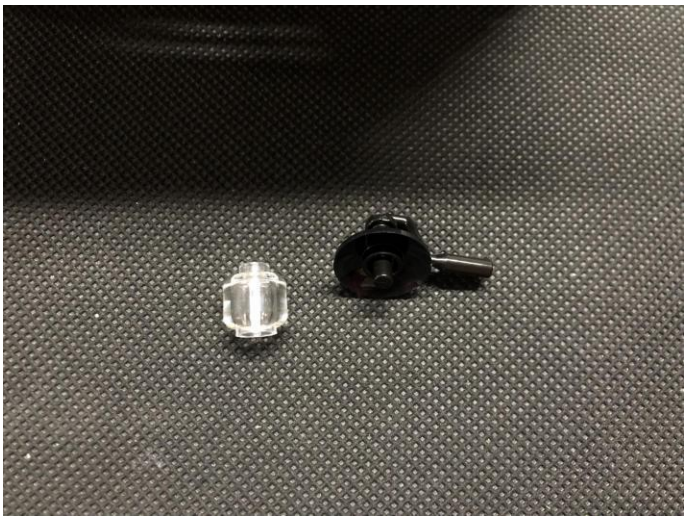
Group the 4 cables together, reconnect the chandelier

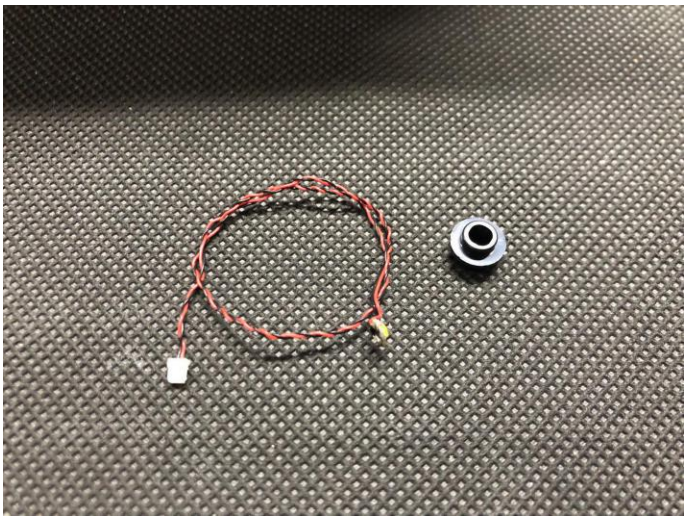
Pull the cables out, connect them to the 8-port expansion board

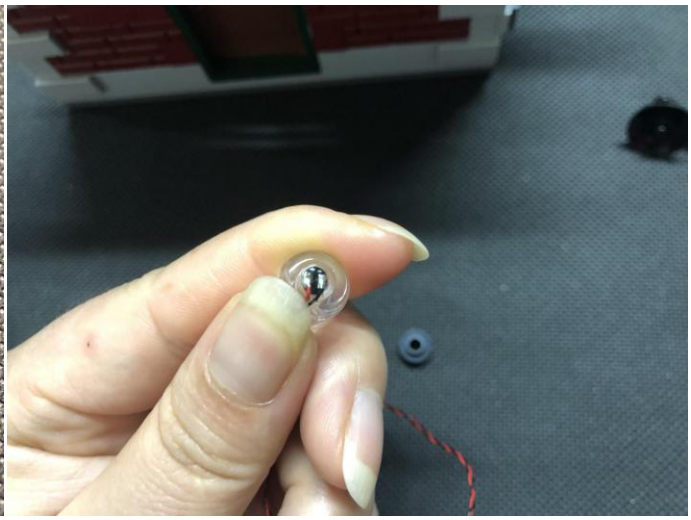



Move onto install light for the side door, remove the lamp, and disassemble it as per below

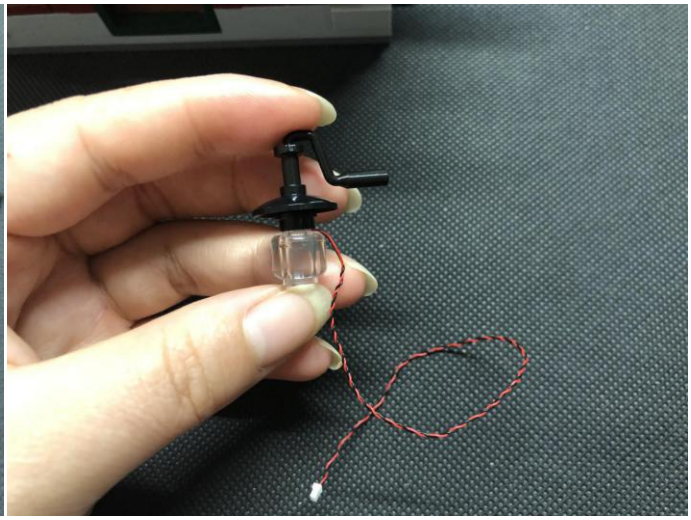



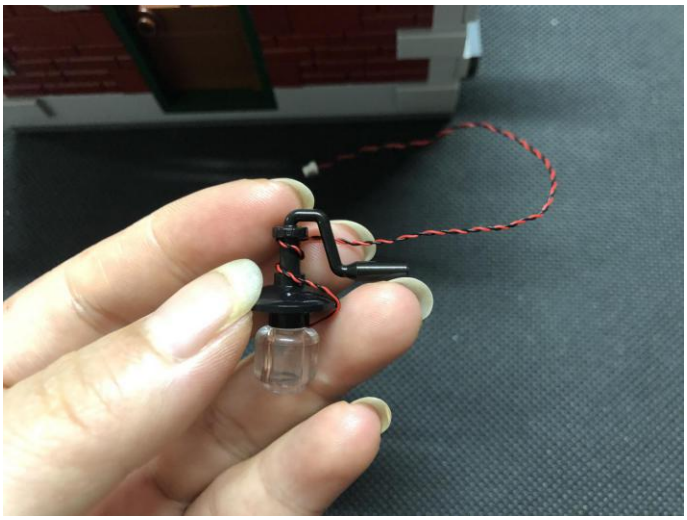
Take a warm white 15cm dot light, a black 1x1 piece with hole. With lighting part facing down, connect the light to the trans lampshade



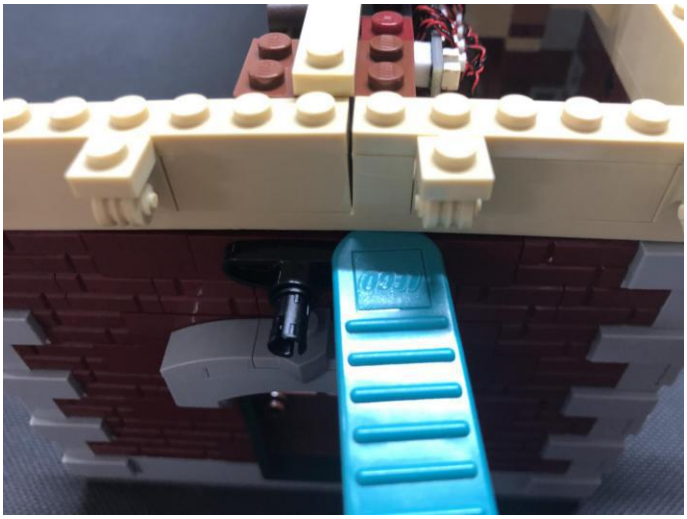


Secure the light with the black piece, reconnect the lampshade, wind the cable around the piece twice

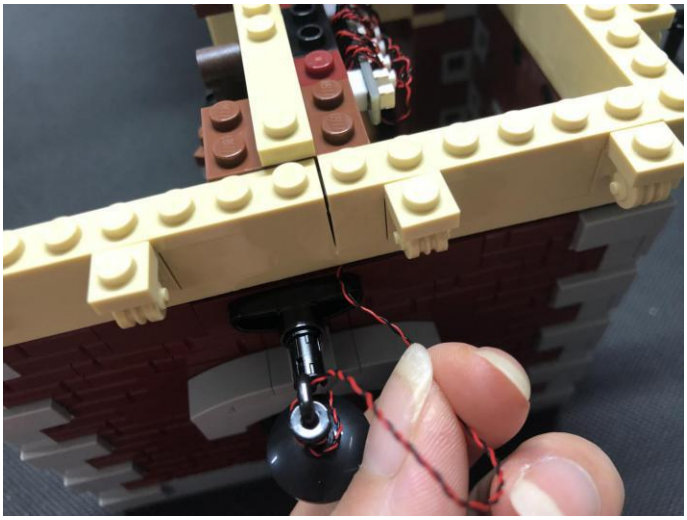


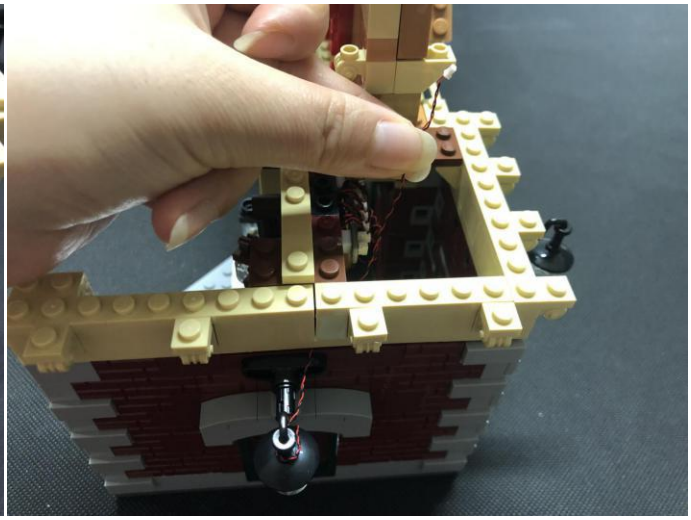


Lift the light yellow beam, reconnect the lamp

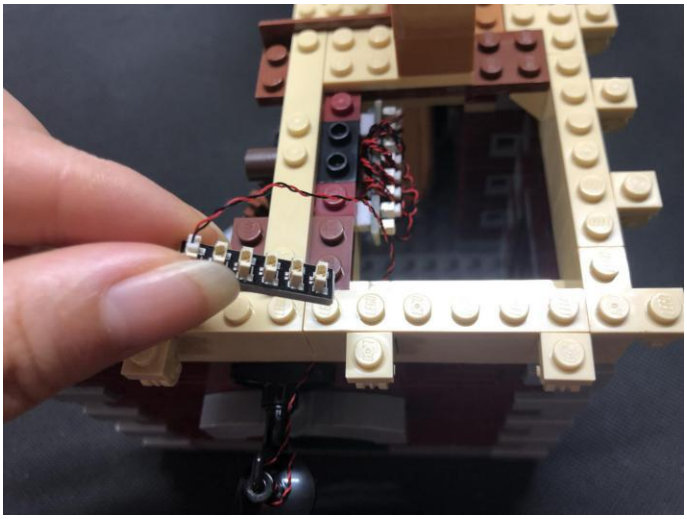


Thread the cable through the following gap, close the gap

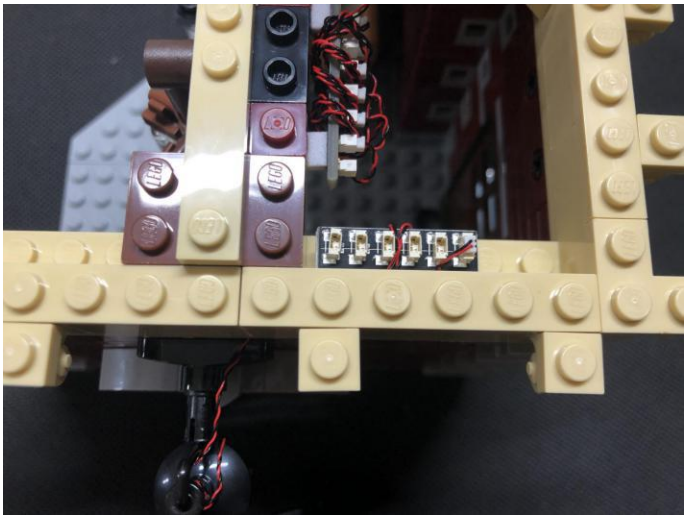




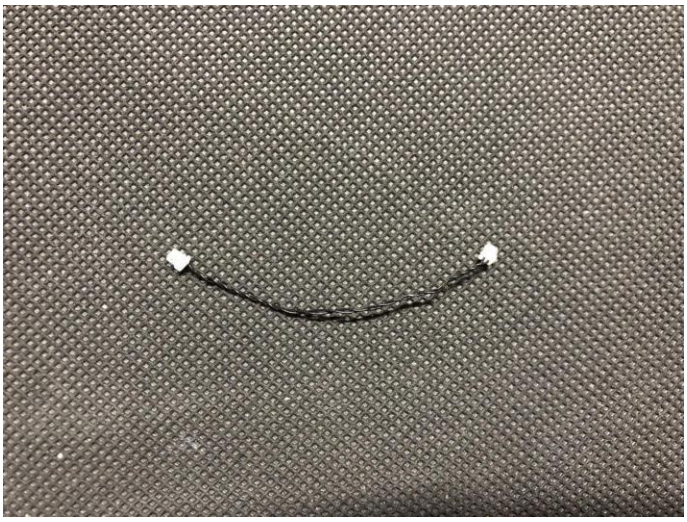
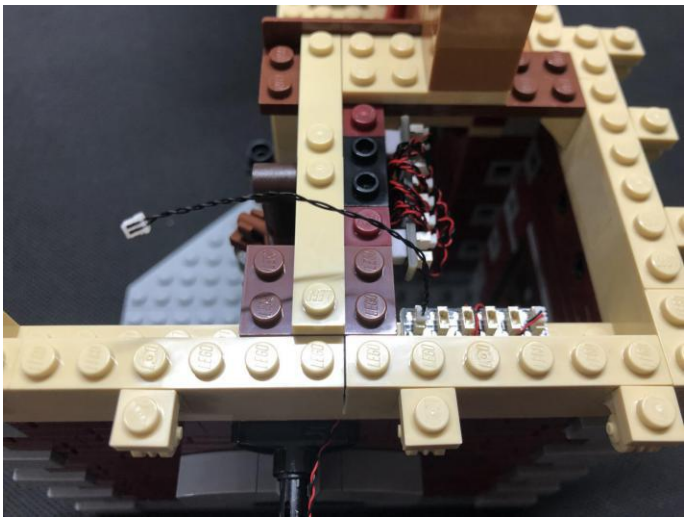
Take a 6-port expansion board, connect the cable of the light to it



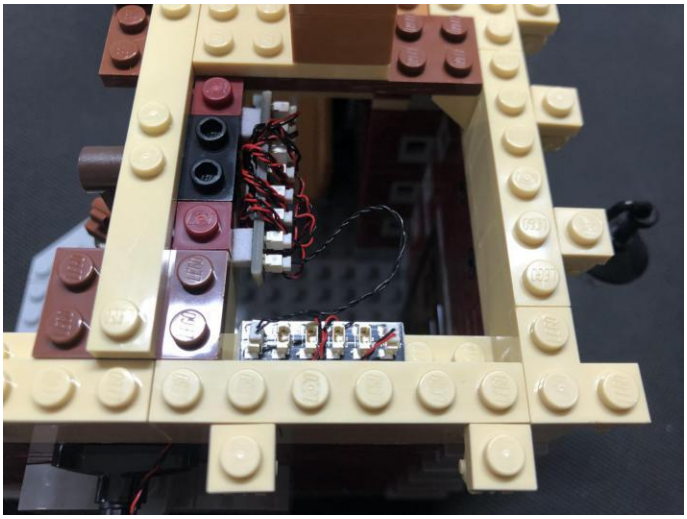
Tuck excess cable, stick the stick the expansion board to the following place with adhesive squares



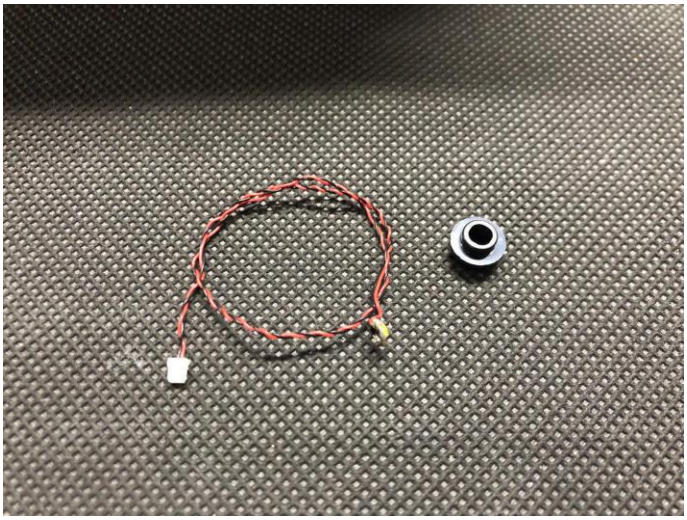
Take a 5cm connecting cable, connect it to the 6-port expansion board

Connect the other end of the connecting cable to the 8-port expansion board

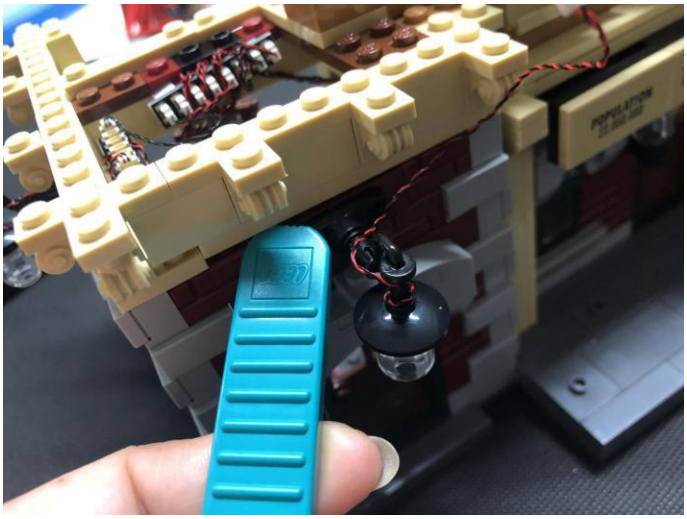


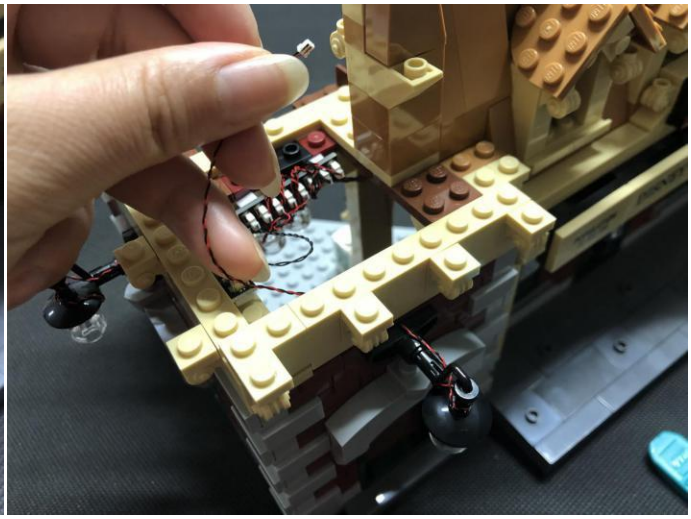
Take a warm white 15cm dot light, a black 1x1 piece with hole



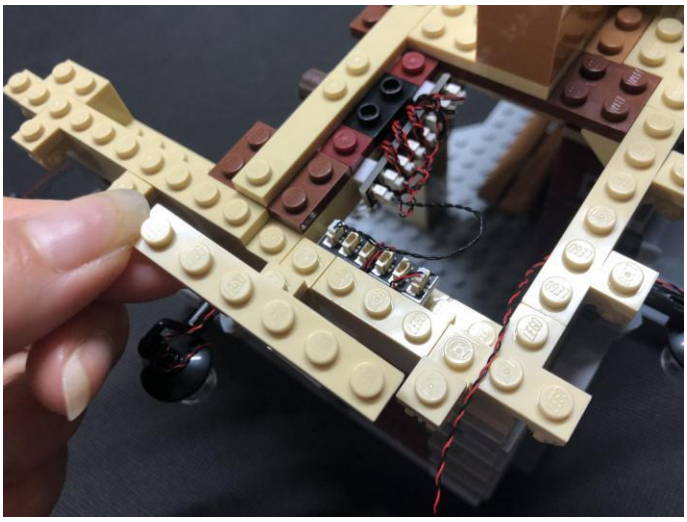
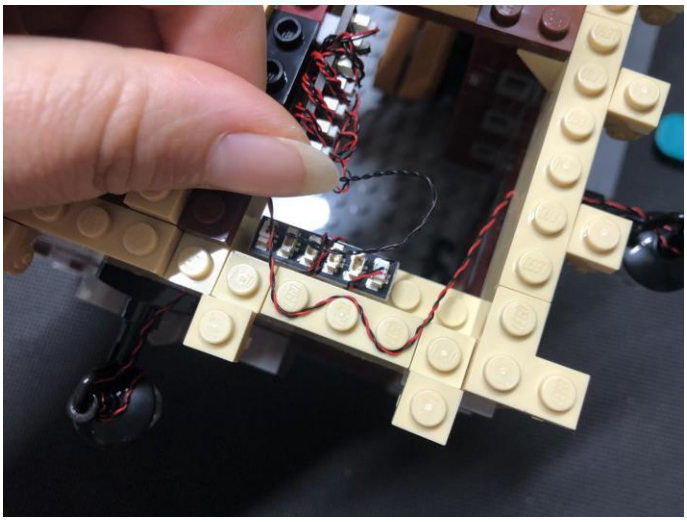
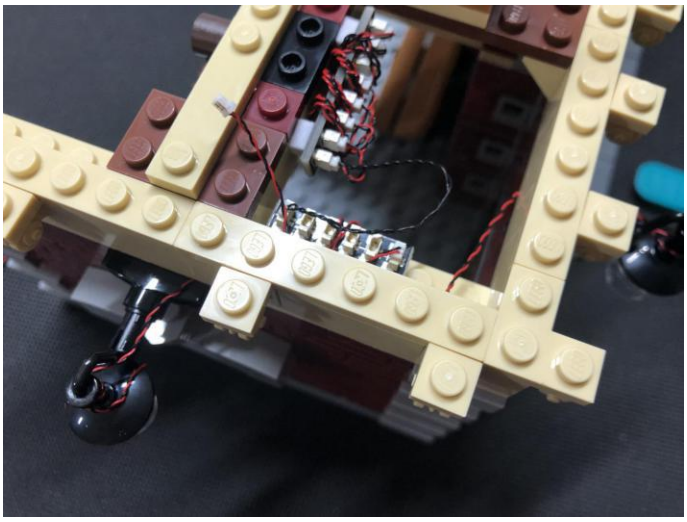
Now, we’ll install light for the front door. Follow the steps we did for the side door light

Lift the light yellow beam to allow the cable thread through, then, close the gap

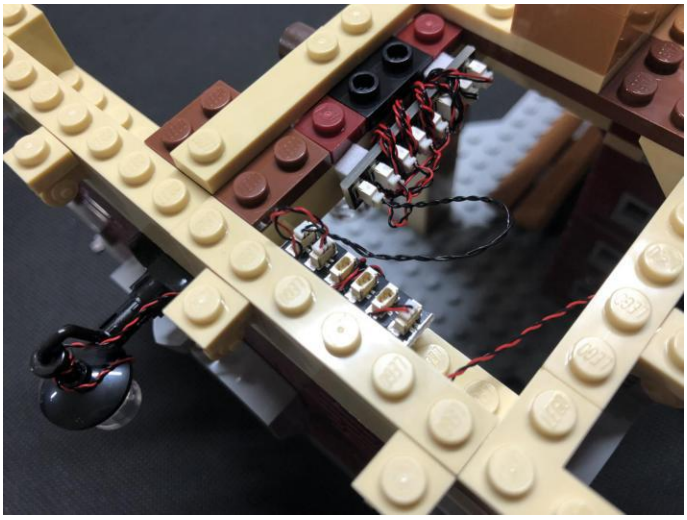




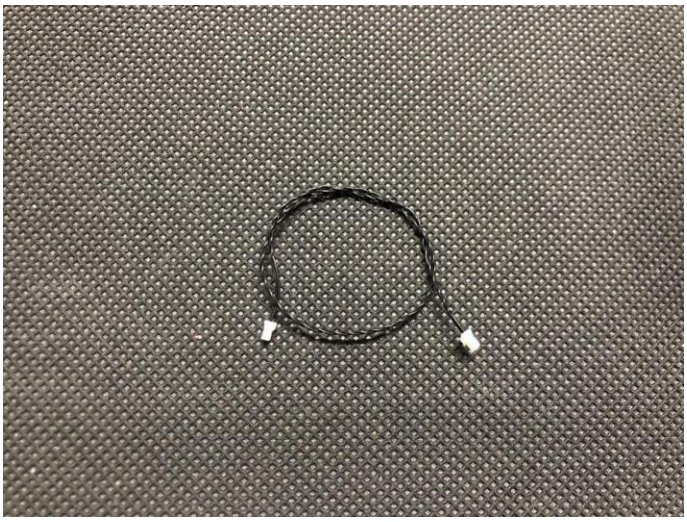
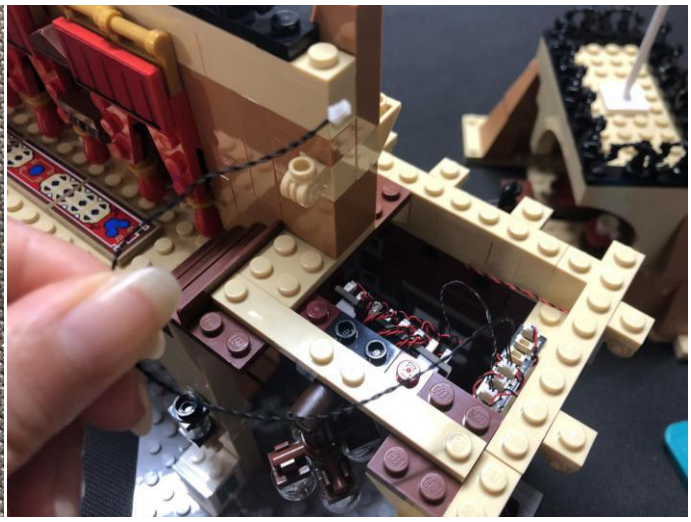
Disconnect the 1x6 plate next to the 6-port expansion board, place the cable as per below, reconnect the 1x6 plate

Connect the cable to the 6-port expansion board.

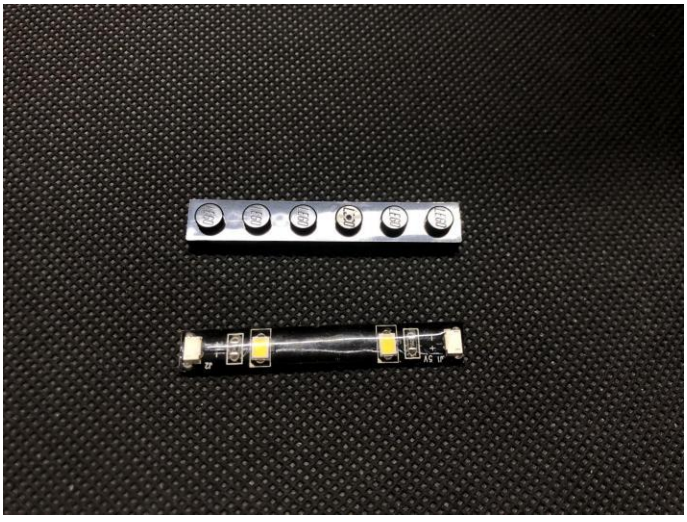


Take a 15cm connecting cable, connect it to the 6-port expansion board

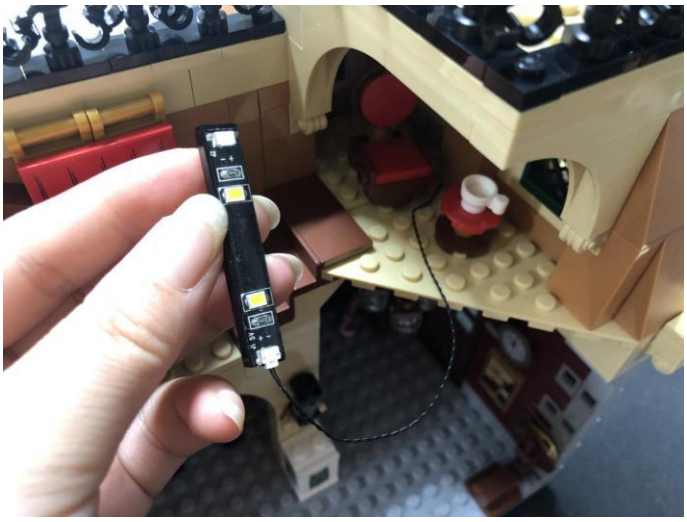



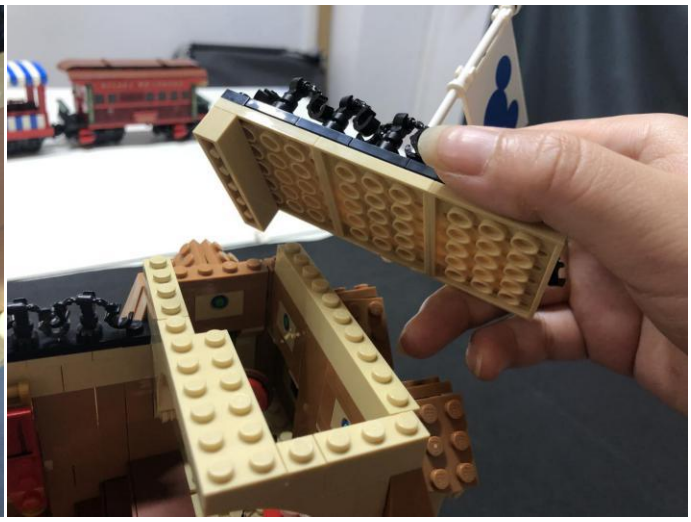
Pull the connecting cable to the second floor, reconnect the second floor


Take a warm white strip light, a 1x6 plate(the colour depends on the package), stick the strip light to the plate

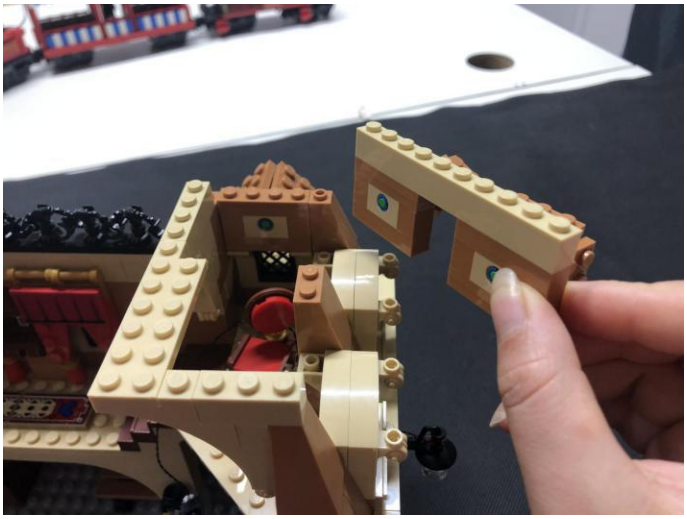



Connect the cable we pulled up to the strip light. Open the roof.



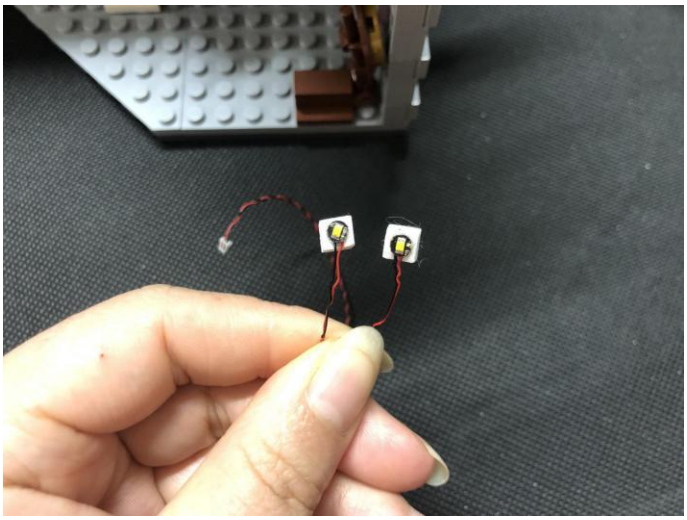
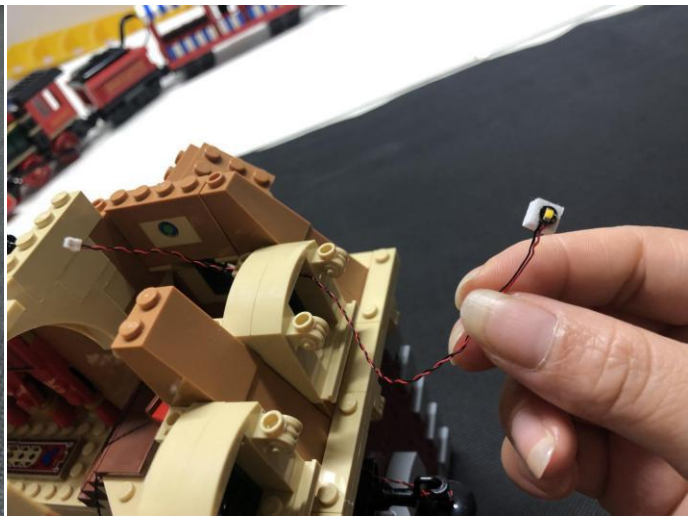


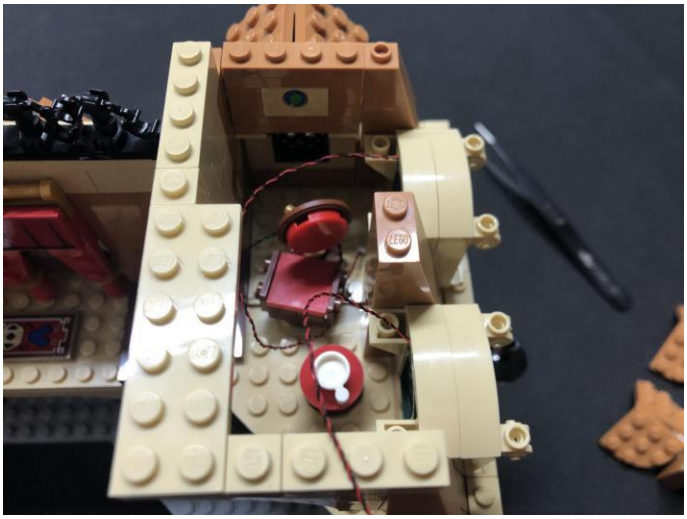
Remove the following piece to install window#3, window#4



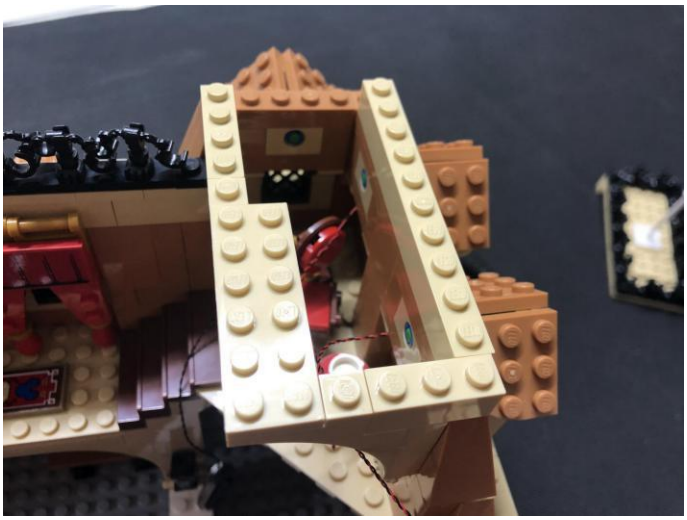
Take 2 warm white 15cm dot lights

Follow the steps we did for installing window#1 to install window#3 and window#4

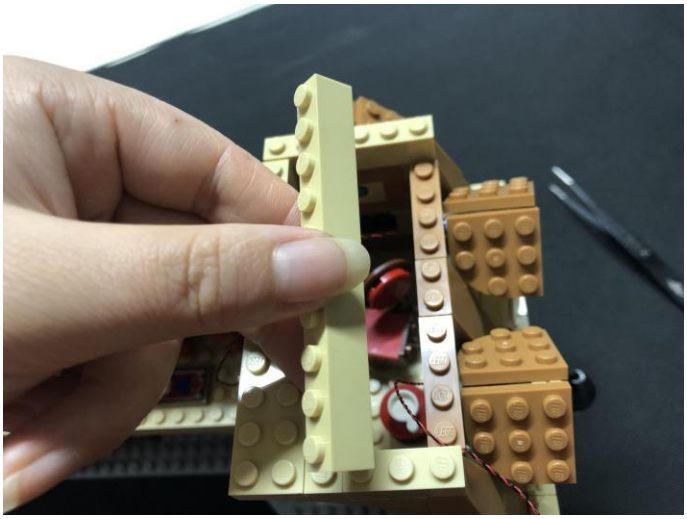



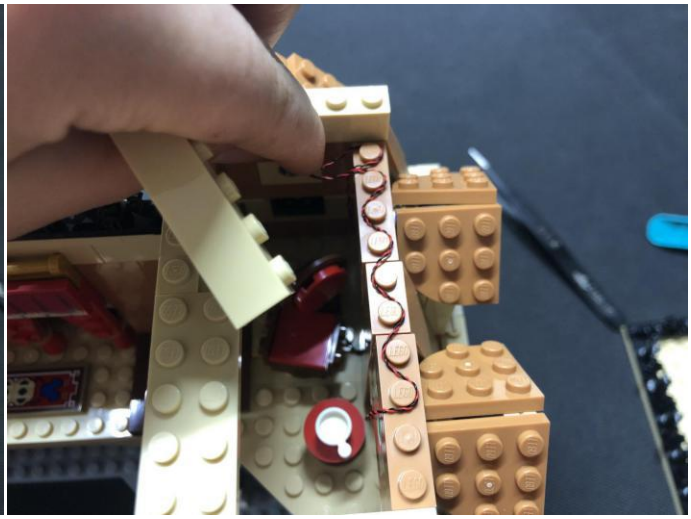



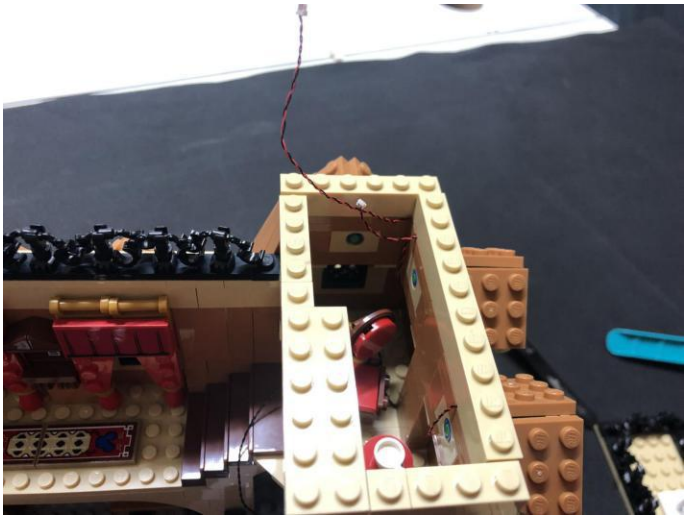
Reconnect the piece we removed



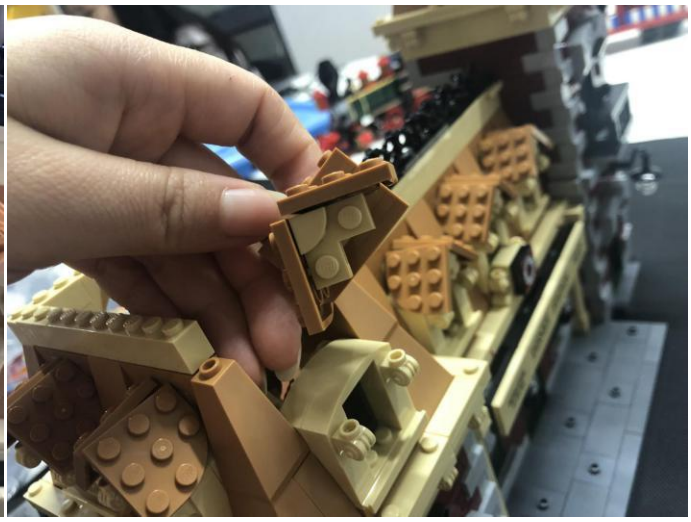
Remove the following piece, place the cable as per below, reconnect the piece





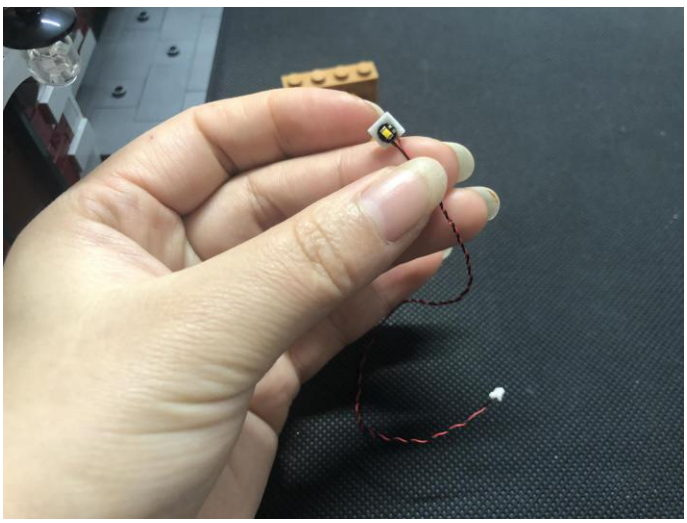
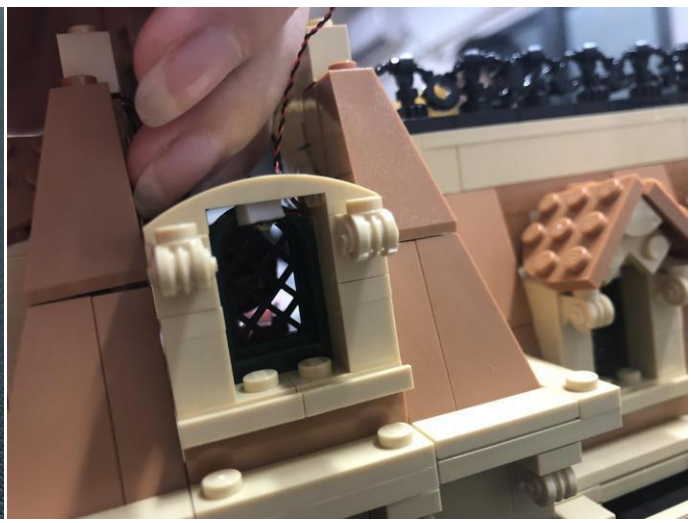


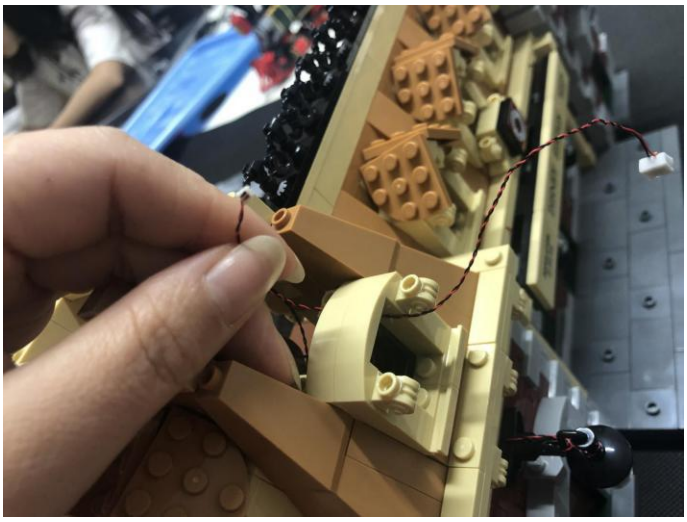
Continue to install the window#5, remove the following piece

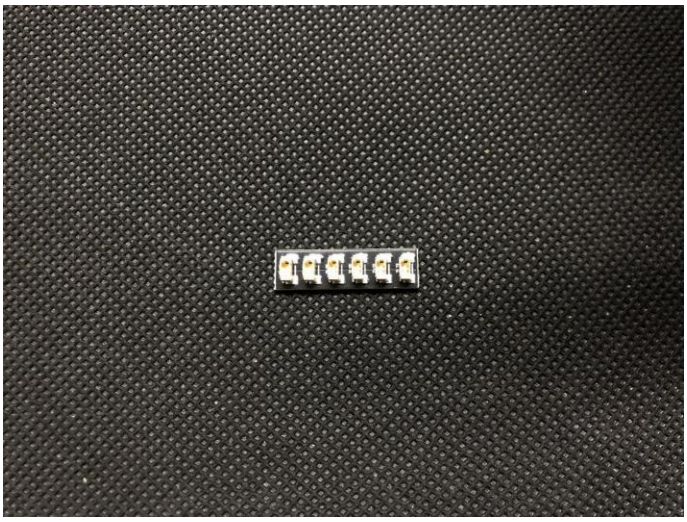
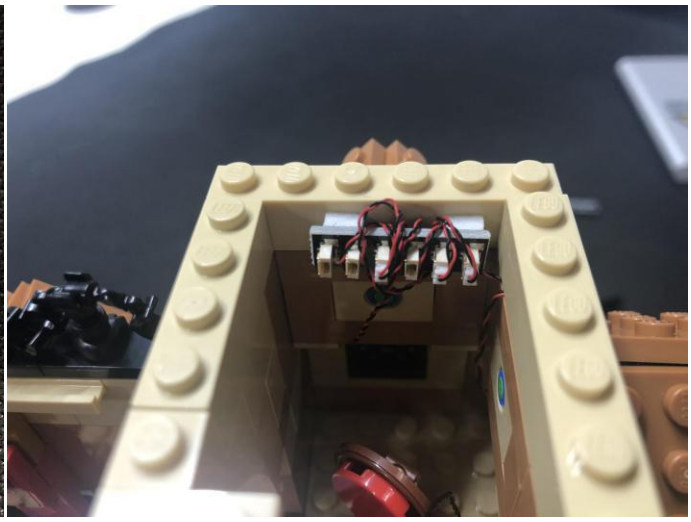
Take a warm white 15cm dot light

Follow the steps we did for installing window#1 to install window#5

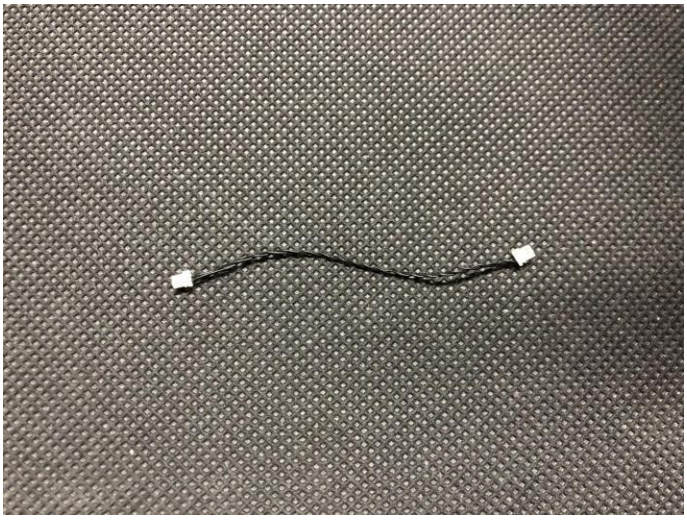
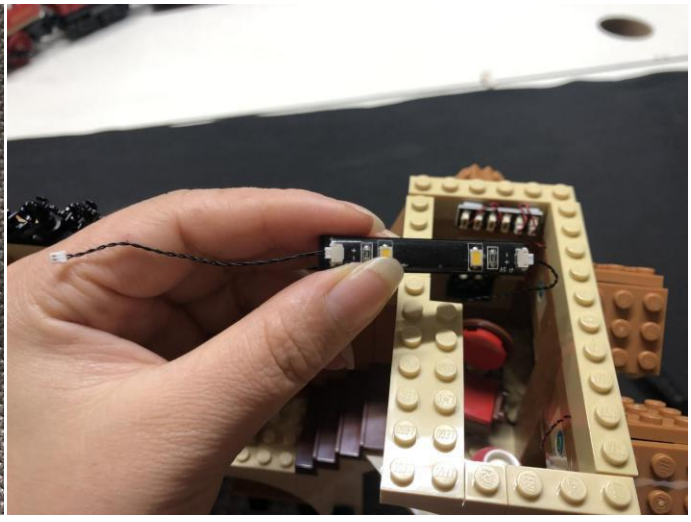





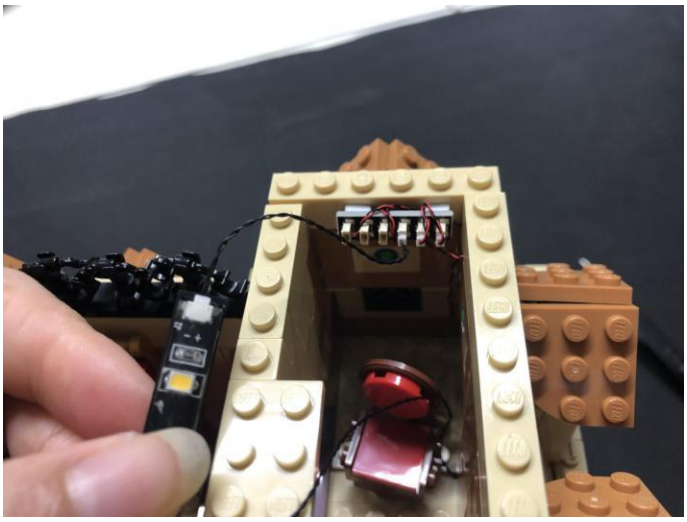

Take a 6-port expansion board, tuck the cables of the 3 lights, and stick them to the following place

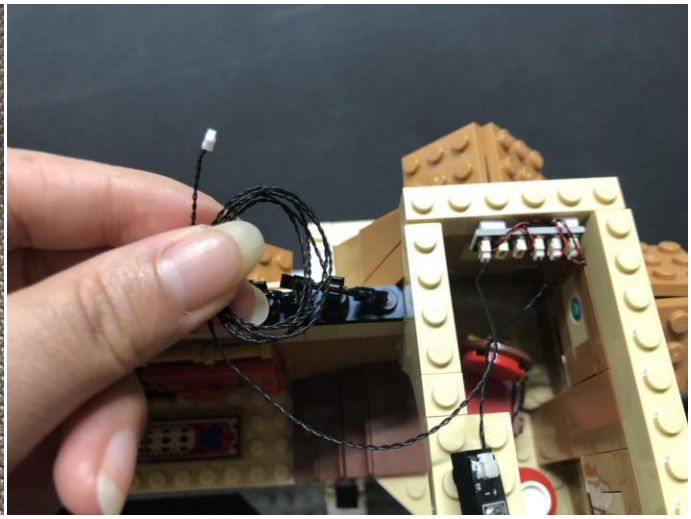
Take a 5cm connecting cable, connect it to the strip light

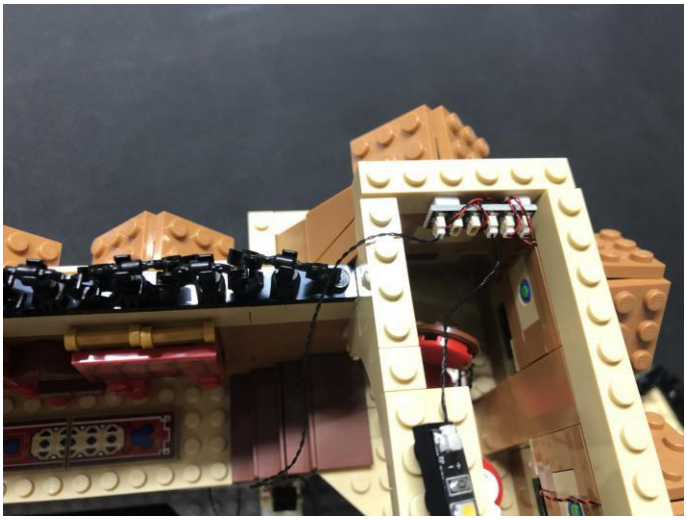
Connect the other end of the connecting cable to the expansion board

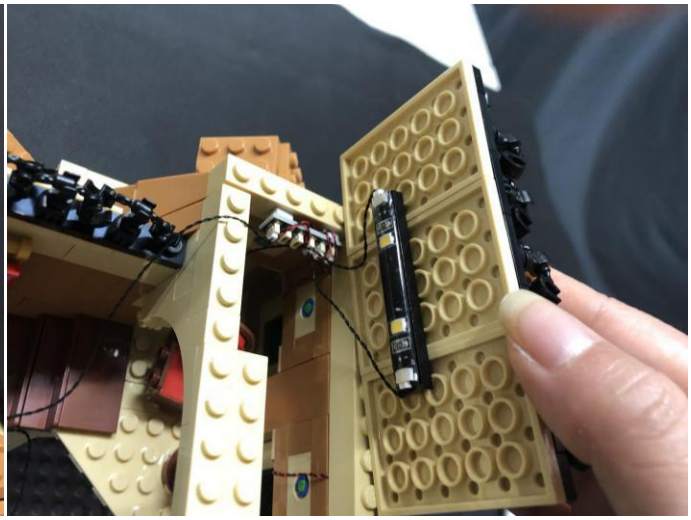


Take a 50cm connecting cable, connect it to the expansion board

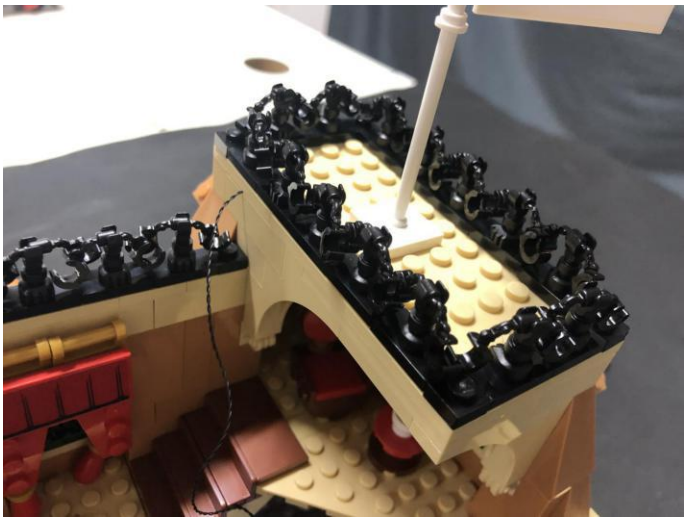


Pull the connecting cable toward the stairs, stick the strip light to the roof



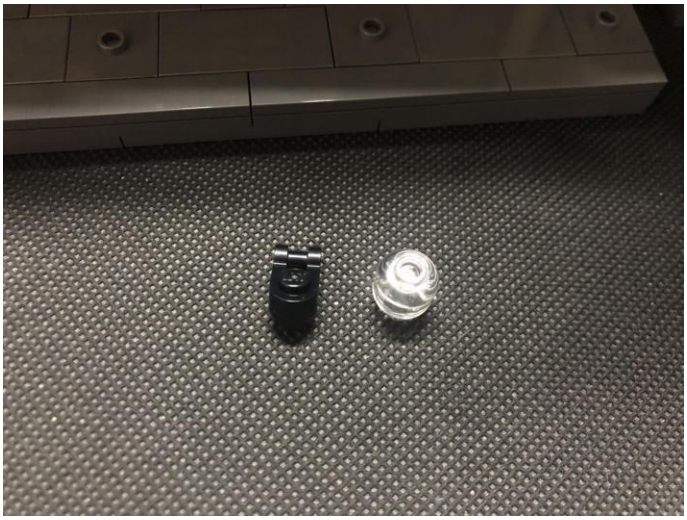


Reconnect the roof, pull the 50cm connecting cable out

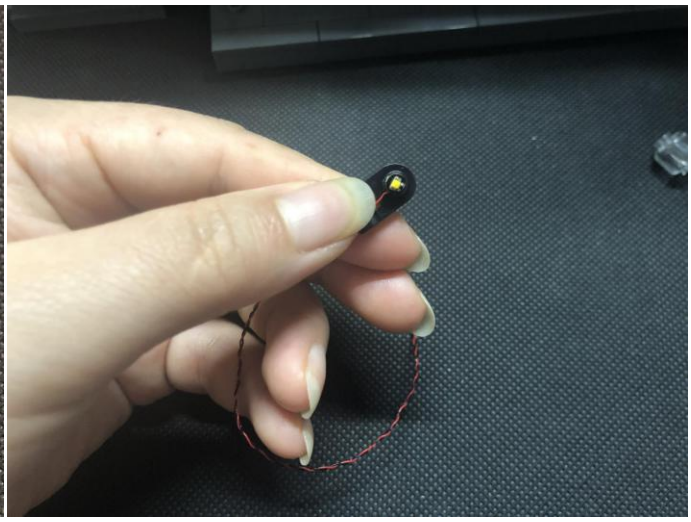


We will install the 2 wall lamps at the front door, remove the one at the right side

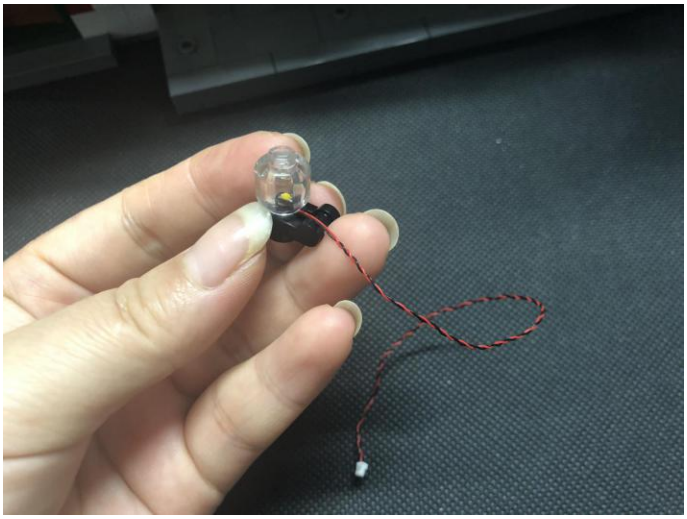
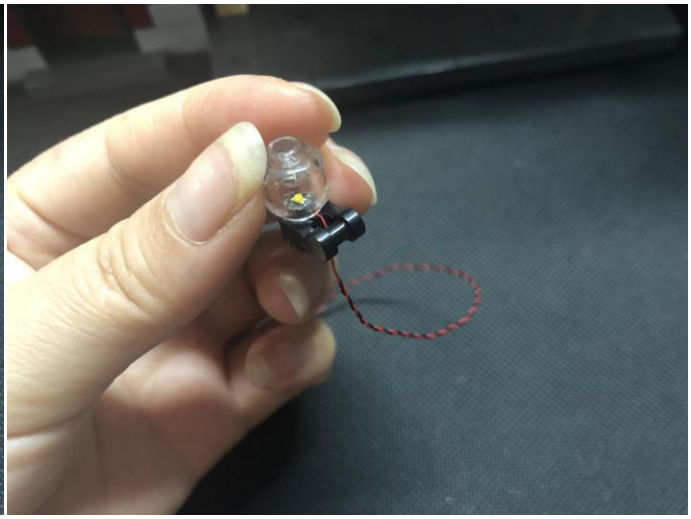

Disassemble the lamp



Take a warm white 15cm dot light, with lighting part facing up, connect it to the piece as per below

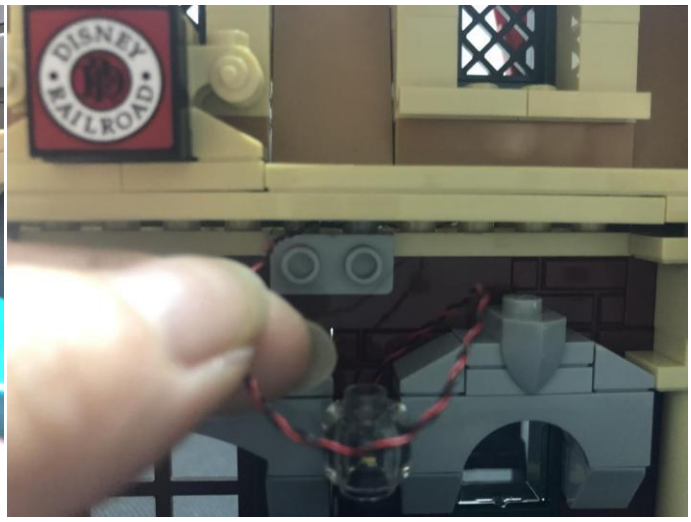



Reconnect the lamp shade, thread the cable through the space

Remove the signboard, reconnect the lamp

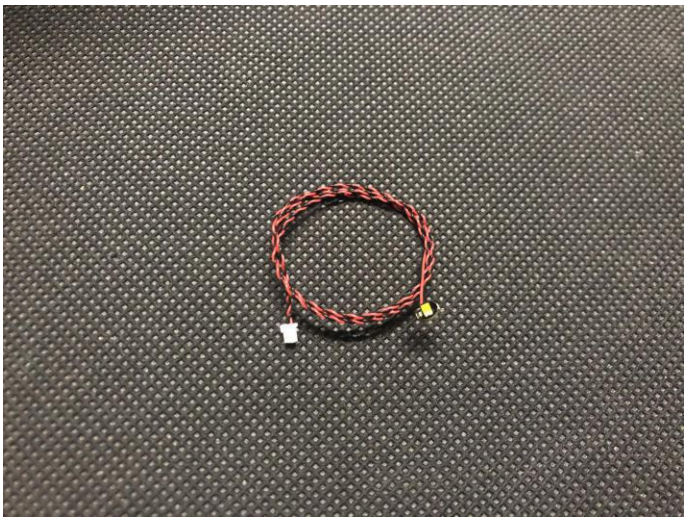
Lift the following piece to allow the cable thread through



Then, install the lamp at the left

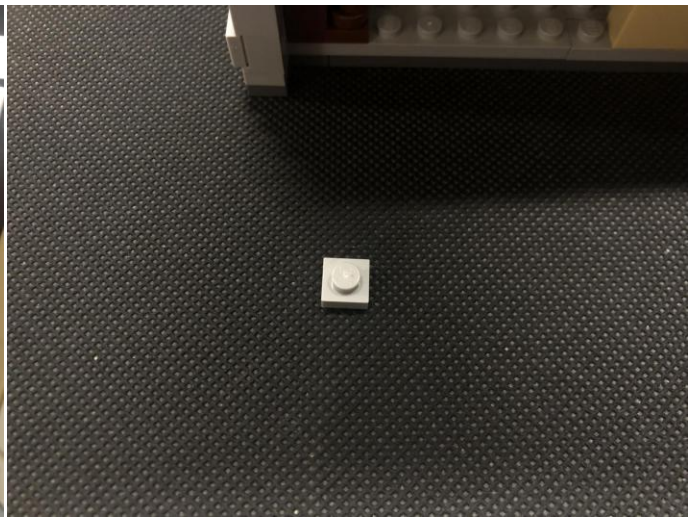
Take a warm white 30cm dot light, follow the previous steps to install this light




Close the gap we made, reconnect the signboard


Turn to the back of the building

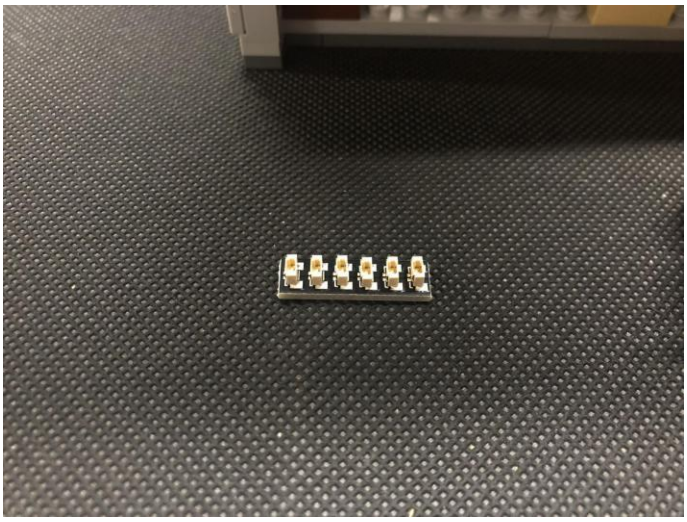
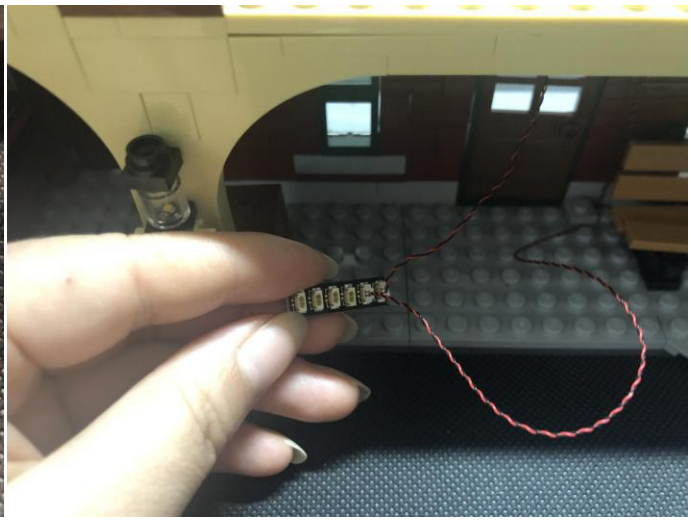
Place the cable as per below, take a 1x1 piece (the colour depends on the package)

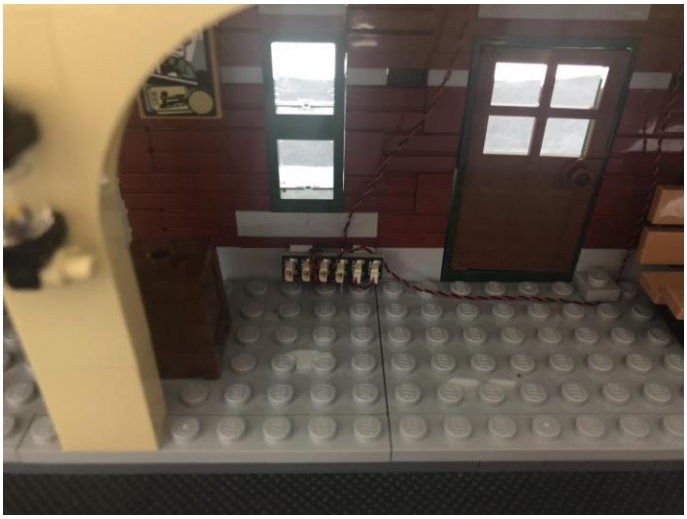
Secure the cable with the 1x1 piece

Remove the front deck


Take a 6-port expansion board, connect the cables of the lamps to it

Tuck excess cables, stick the expansion board to the following place



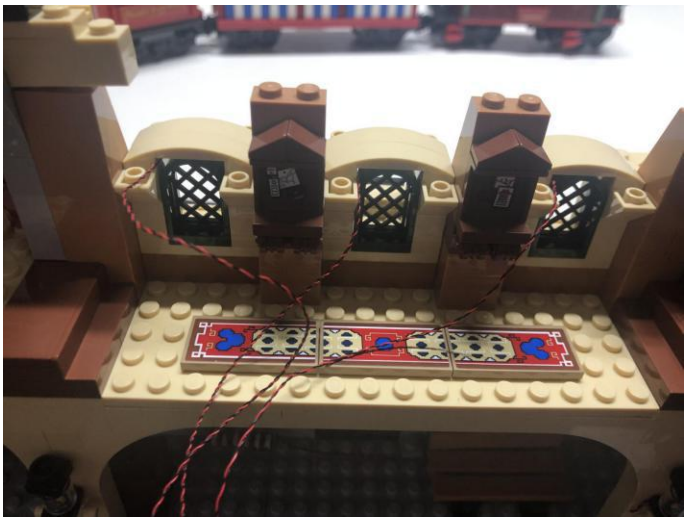
Continue to install the windows at the middle section (window#6, window#7, window#8), remove the eaves

Remove the upper sections of the curtains

Continue to remove the following pieces

Remove the 3 curtains

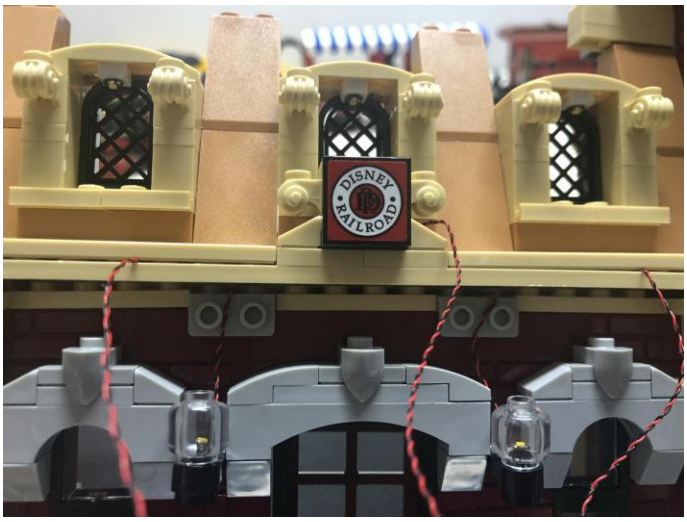
Take 3 warm white 30cm dot light, repeat the steps we did for window#1 to install lights for window#6, window#7 and window#8



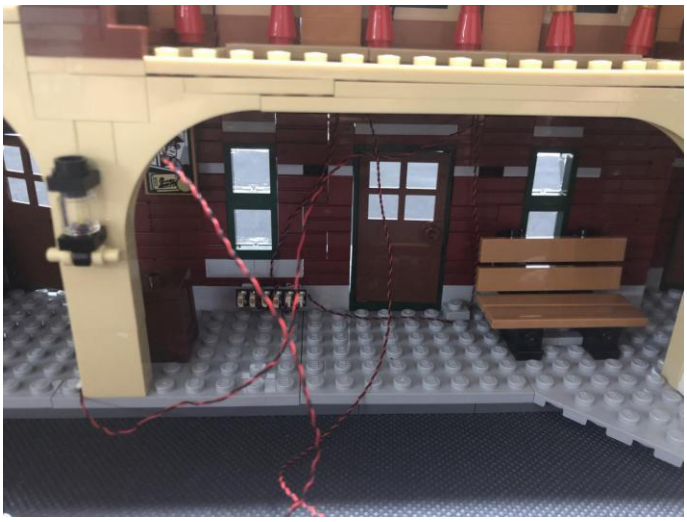
Thread the 3 cables through the space under the window and pull them forward




Disconnect the sign board, lift the following piece, thread the 3 cables through the gap we made, pull them to the back of the building

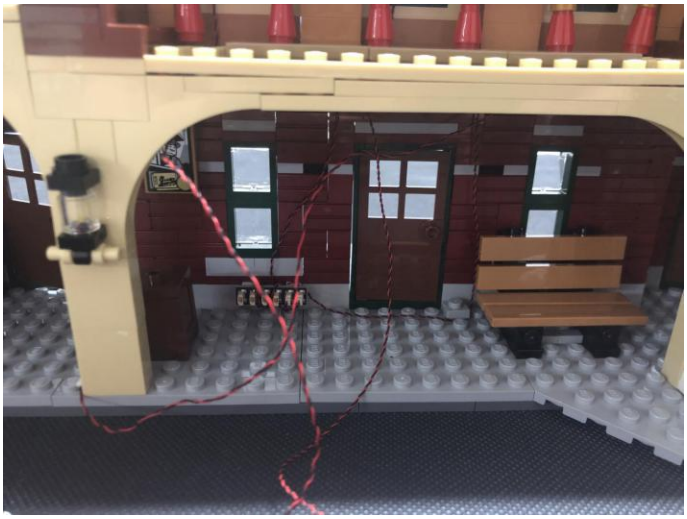




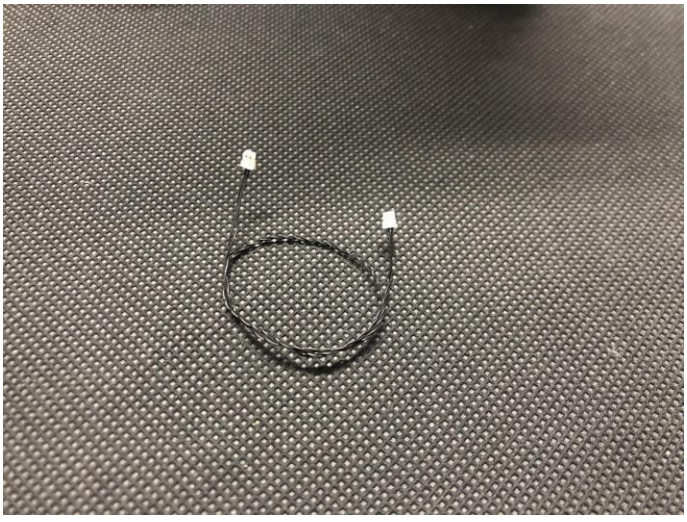


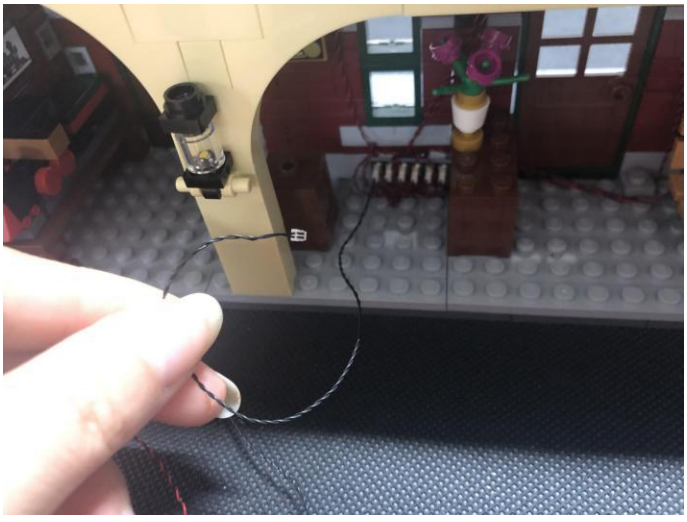
Reconnect the sign board, reconnect the other pieces


Connect the 3 cables to the expansion board at the front desk



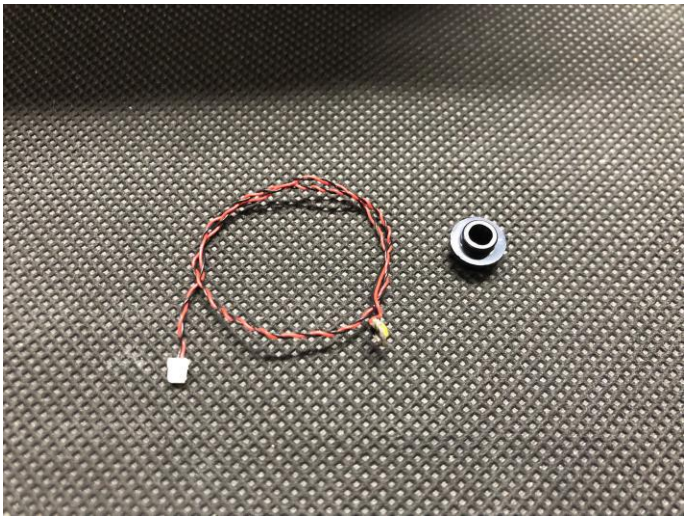
Take a 15cm connecting cable, connect it to the expansion board at the front desk, and pull it leftward





Reconnect the front desk

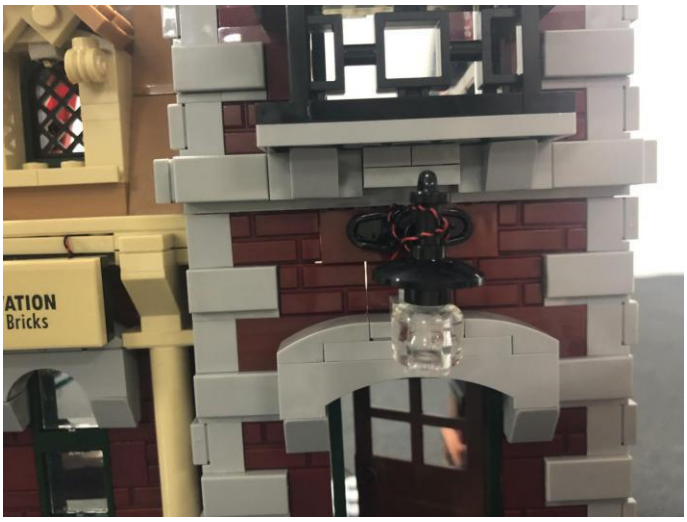

Take a warm white 15cm dot light, a black 1x1 piece with hole



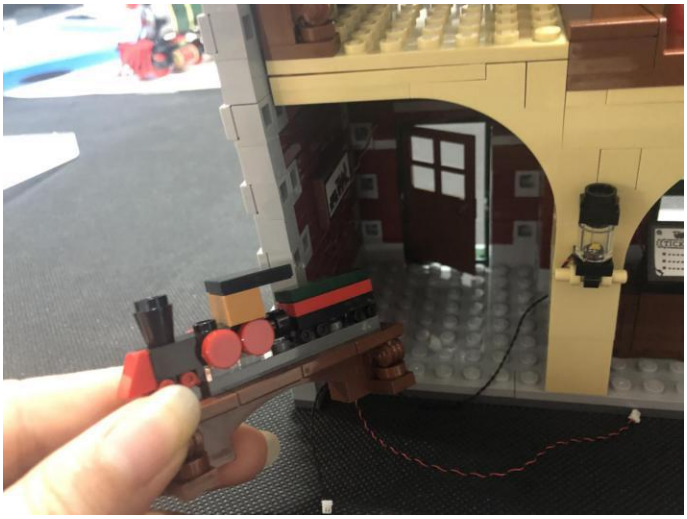
Continue to install light above the door. Follow the steps we did for the previous lamps


Lift the following piece to allow the cable thread through the gap to the inside

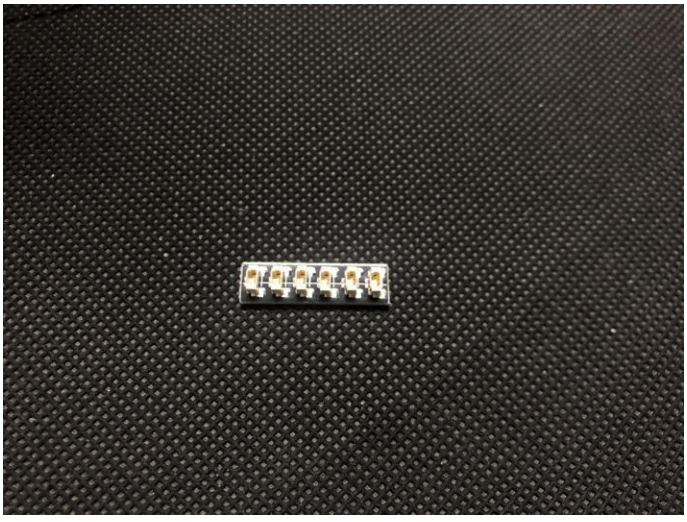
Close the gap we made

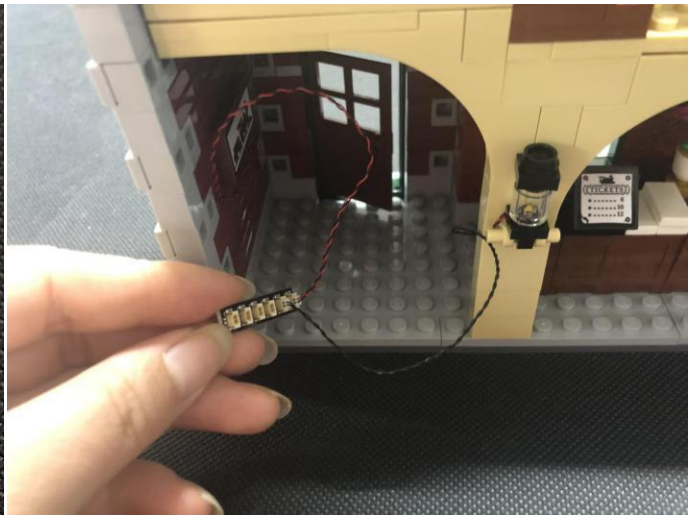



Remove the following piece

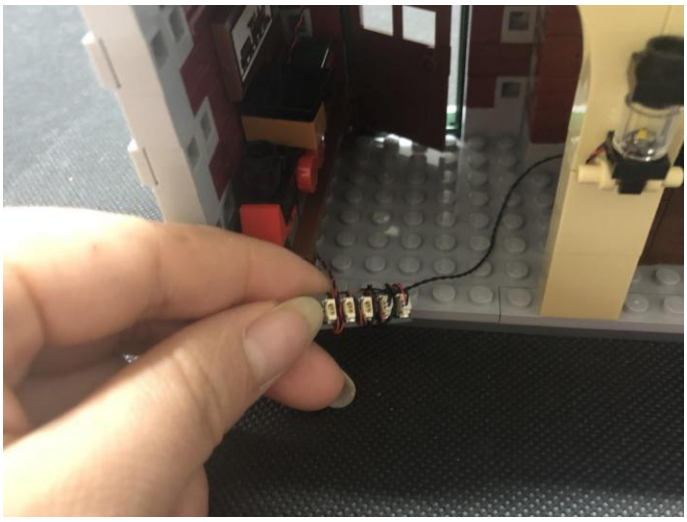


Take a 6-port expansion board, connect the cables of the light and the cable from the front desk to the expansion board





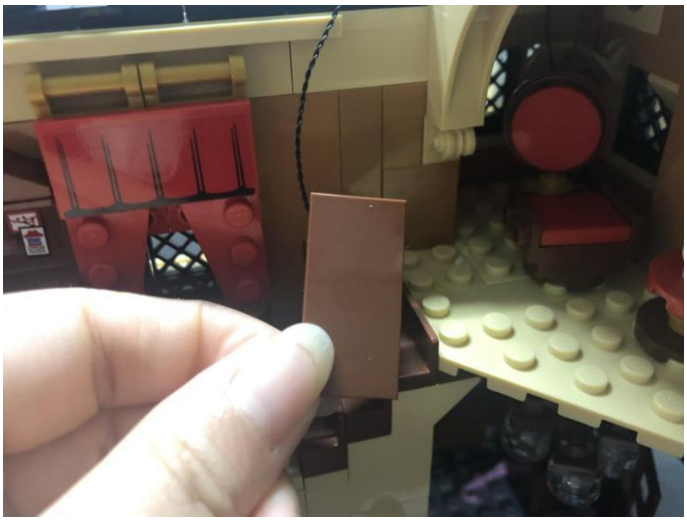
Reconnect the piece we removed to secure the cable, tuck excess cables

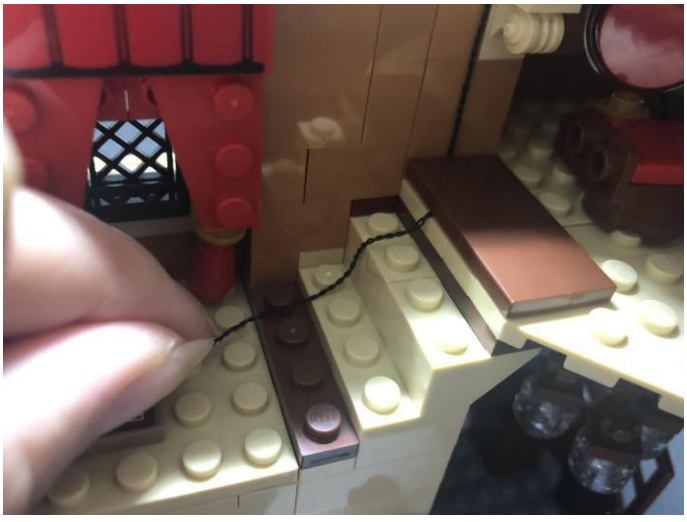
Stick the expansion board to the following place with the adhesive squares

Connect the 50cm connecting cable from the stairs to the expansion board

Remove the 2x4 plate from the stairs, place the cable alongside the wall, reconnect the plate to secure the cable



Remove the following board from the stairs, place the connecting cable as per below

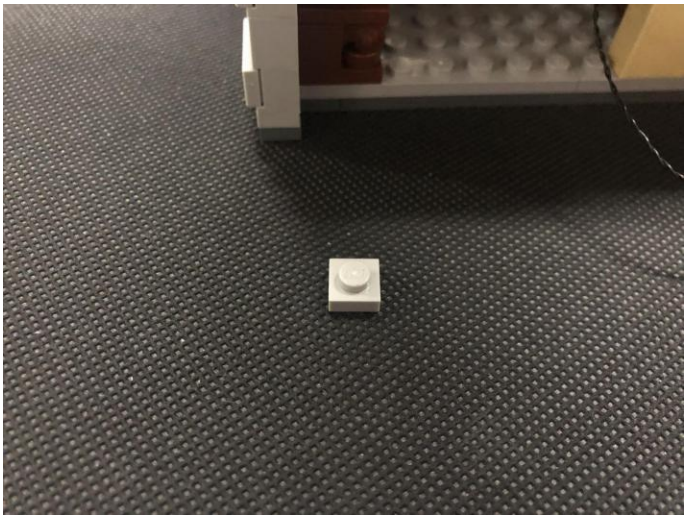
Reconnect the pieces to secure the cable

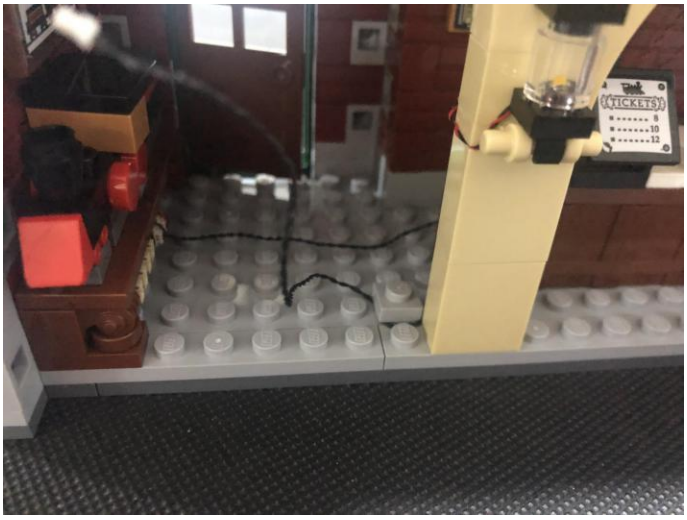
Lift the following piece to allow the cable thread through the gap to the inside


Pull the cable leftward

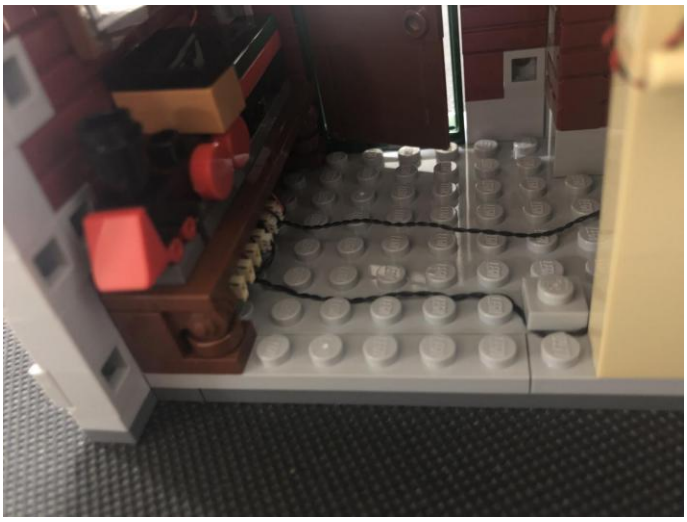

Take a 1x6 plate to secure the cable as per below

Take a 1x1 piece(the colour depends on the package) to secure the cable

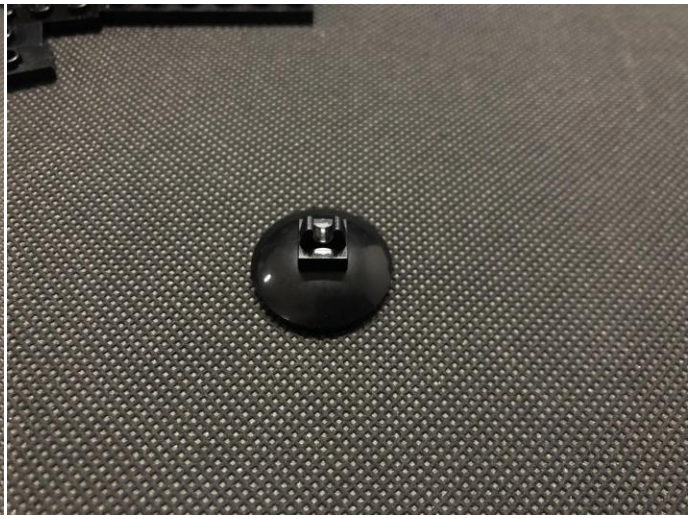


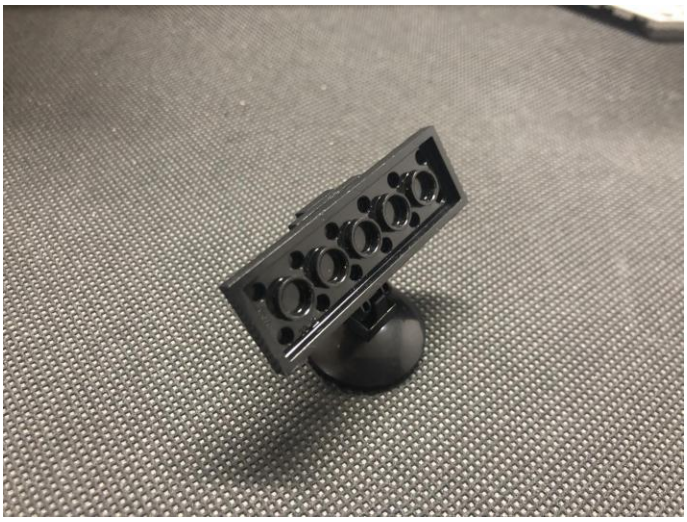



Tuck excess cables and connect them to the expansion board



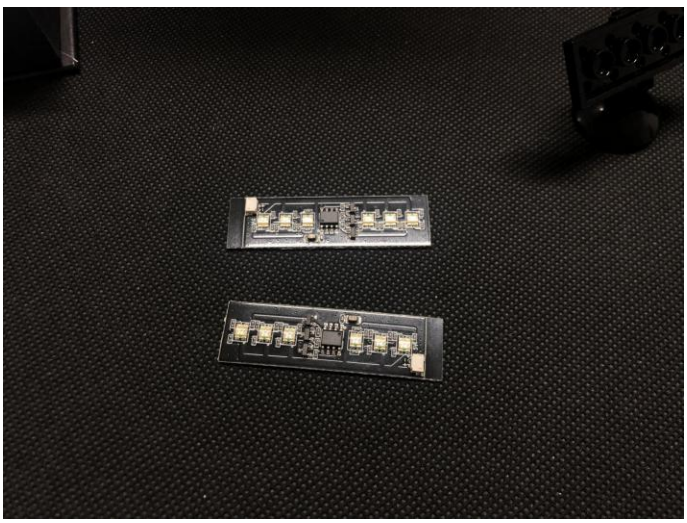
Take the following piece, assemble them as per below



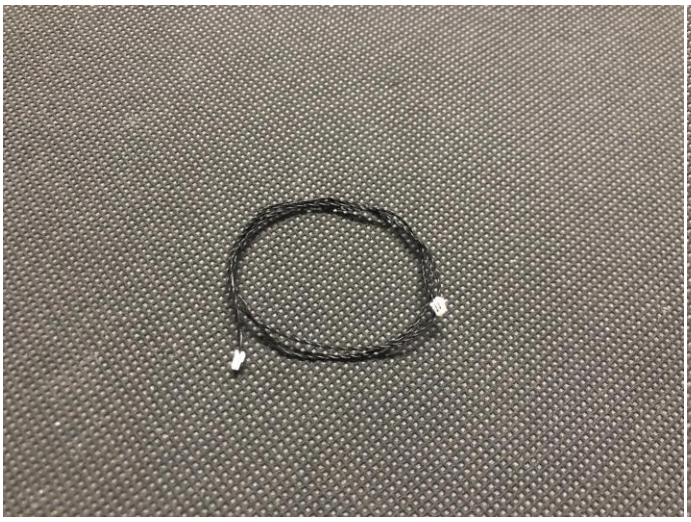


Repeat the steps to assemble another one

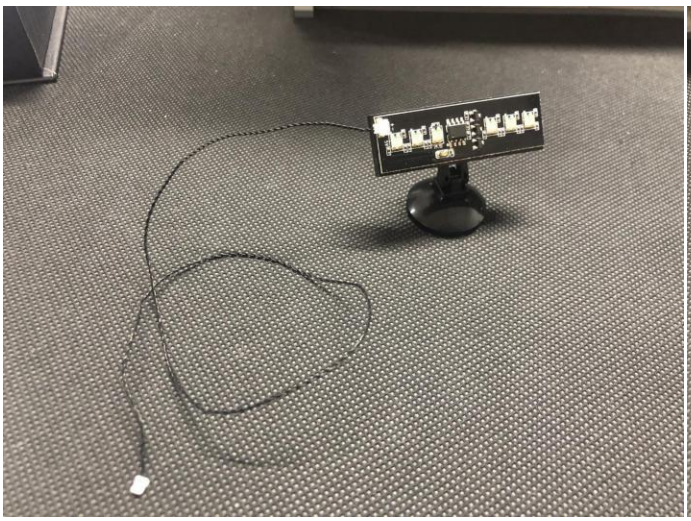
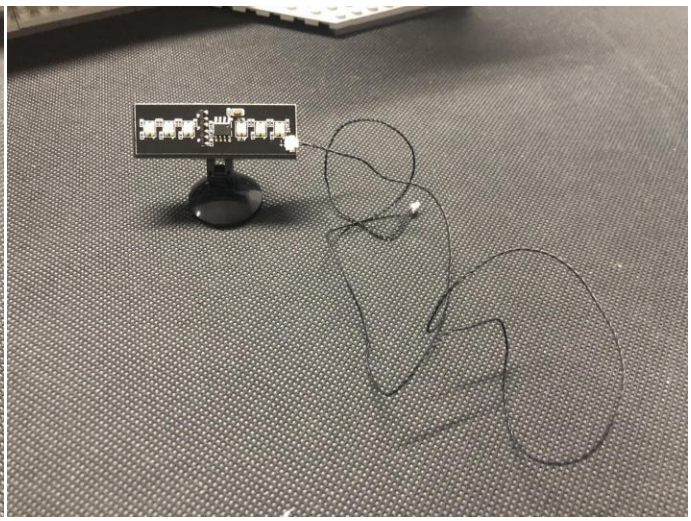
Take 2 multi-colour background light, stick them to the pieces we assembled before



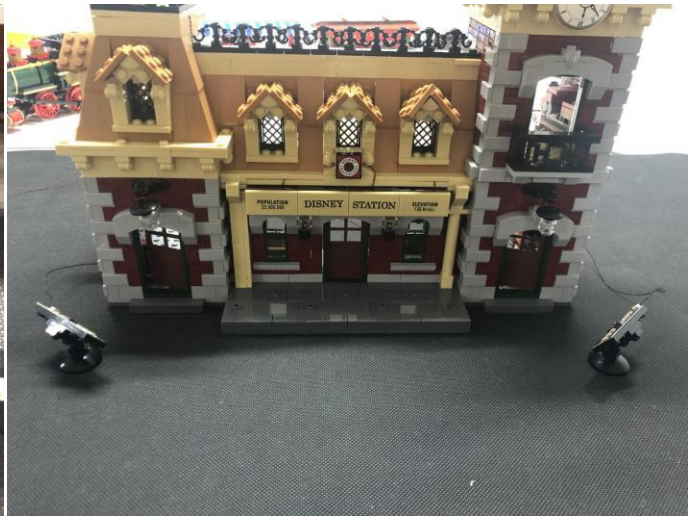
Take a 30cm connecting cable, a 50cm connecting cable



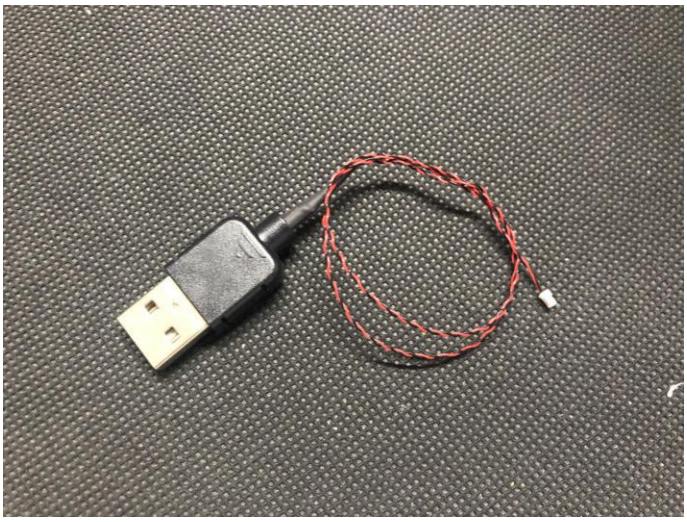

Separately connect the 2 cables to the a multi-colour background

Connect the 2 connecting cables to the expansion board, place the 2 multi-colour background lights at the 2 sides of the station. Place the one with 30cm connecting cable at the left side, and the one with the 50cm connecting cable at the right side


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



This completes installation of this LED Lighting Kit. ENJOY!