Old Trafford – Manchester United # 10272 Lighting Kit

Package contents:

- 30 x 15cm Warm Light Dot Lights
- 12 x Warm White Strip lights
- 5 x 5cm Connecting Cables
- 10 x 15cm Connecting Cables
- 3 x 30cm Connecting Cables
- 1 x 6-Port Expansion Board
- 6 x 8-Port Expansion Board
- 1 x USB

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.
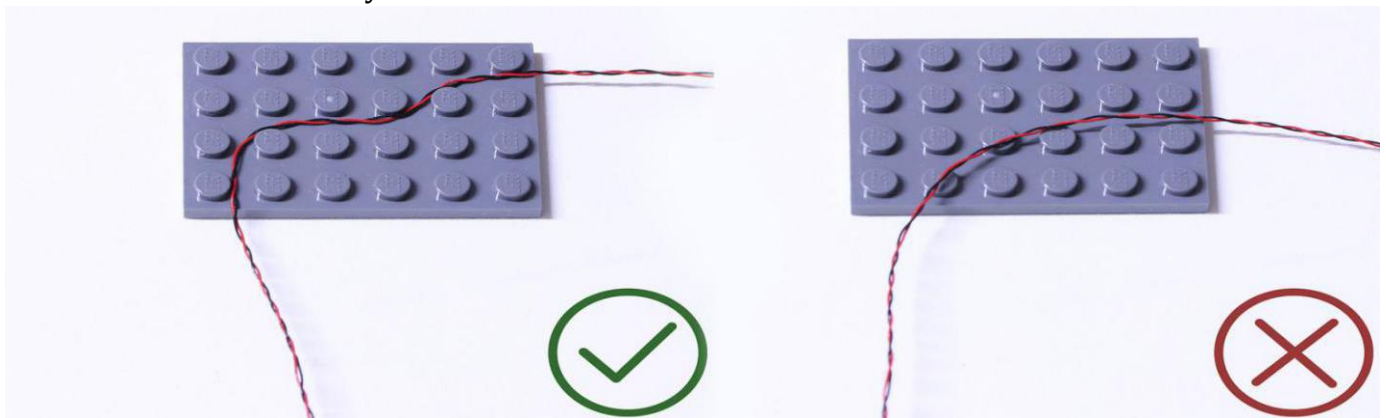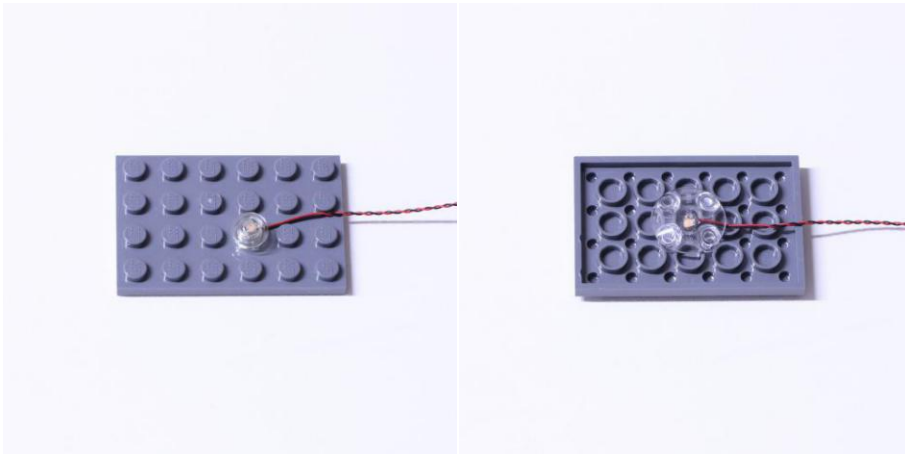

Insert the connectors to the ports.
Be careful when you are operating, there's only one correct way to insert, make sure the expansion board is upward, find the soldered "=" sign on the left of the port. When you are inserting, the side which the wires can be seen should be faced to the "=" sign and 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.
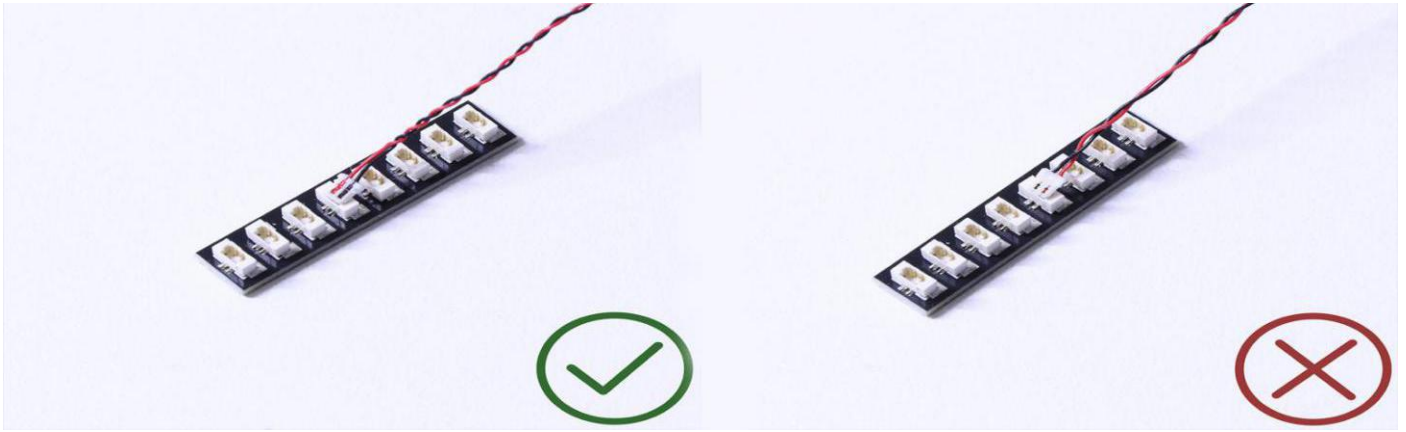
At this point, use the tweezers to straighten the bent pins.
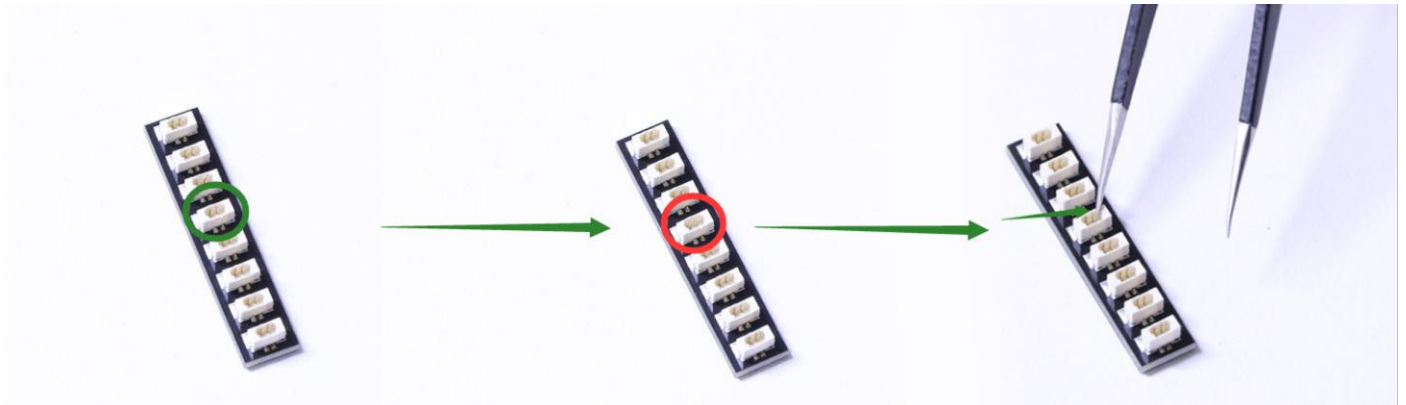
When installing dot lights, make sure they are correctly placed (Yellow LED package is exposed). You can put they either on the top of the studs or between studs.


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.
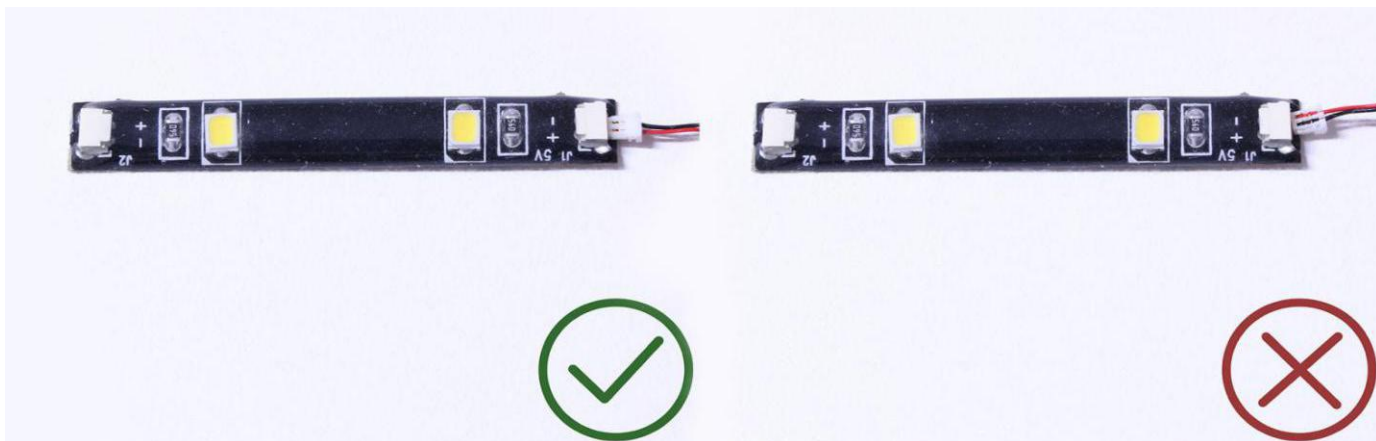
Finally, please pay attention to the positive and negative terminals of the battery when installing the battery case.
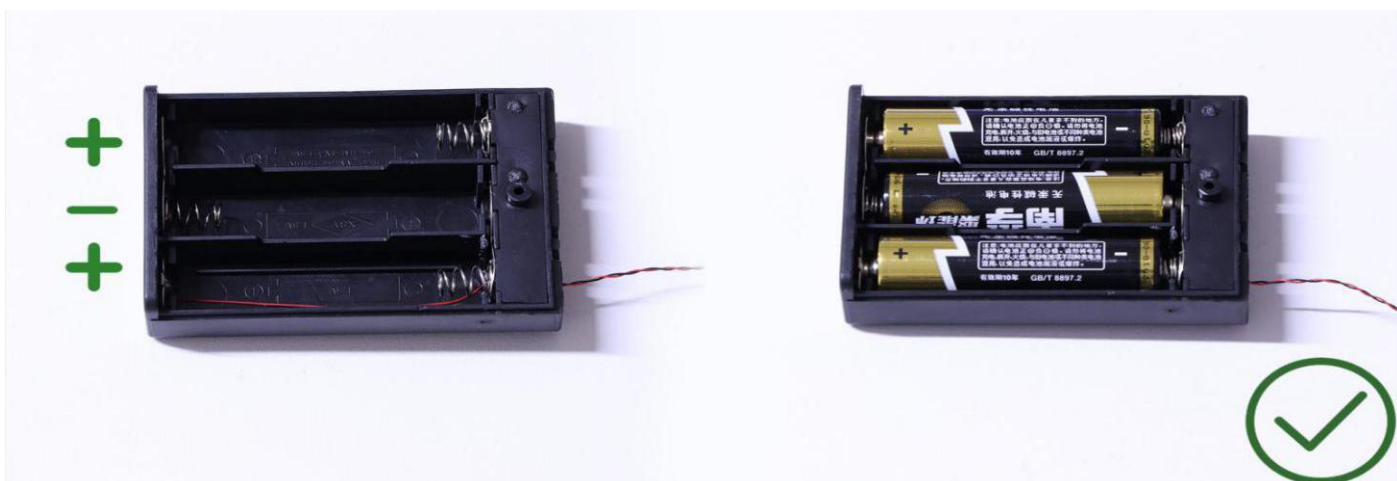
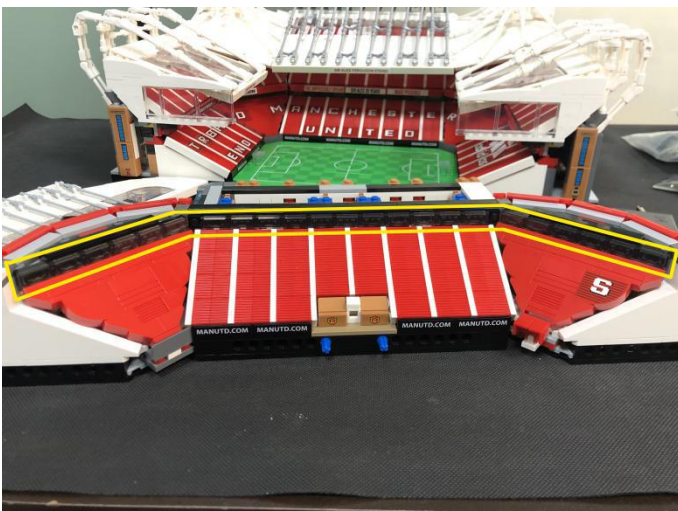# Instructions for installing this kit:

Let's begin!
First we split the stands in the area below, as shown below:

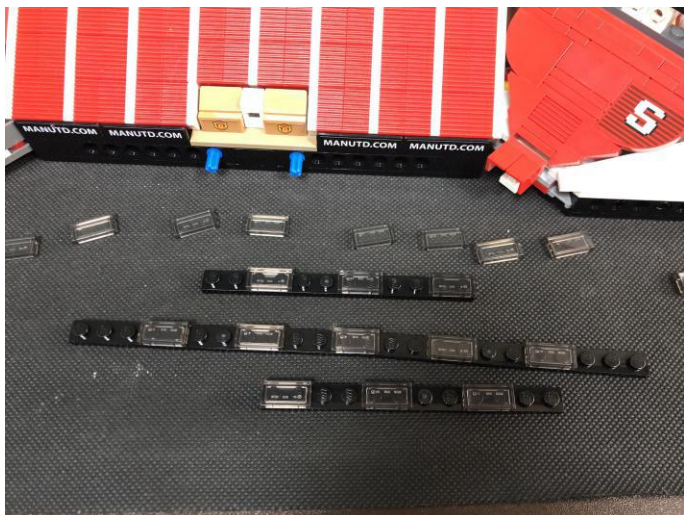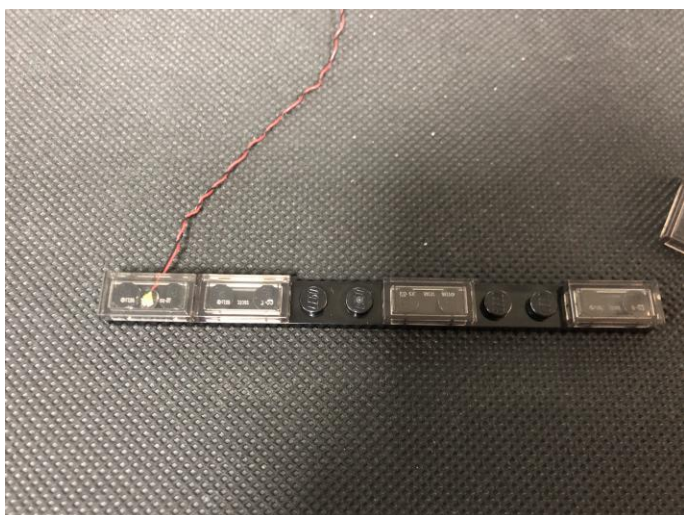Remove the top cover of the stand, as shown below

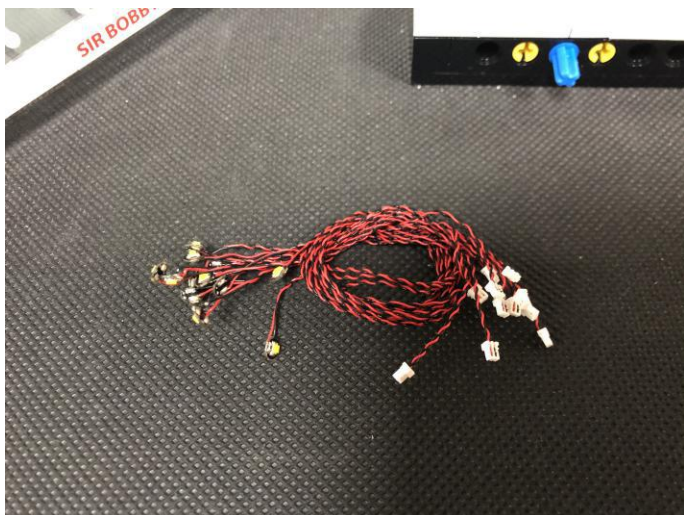Remove the transparent panel behind the stands, as shown below
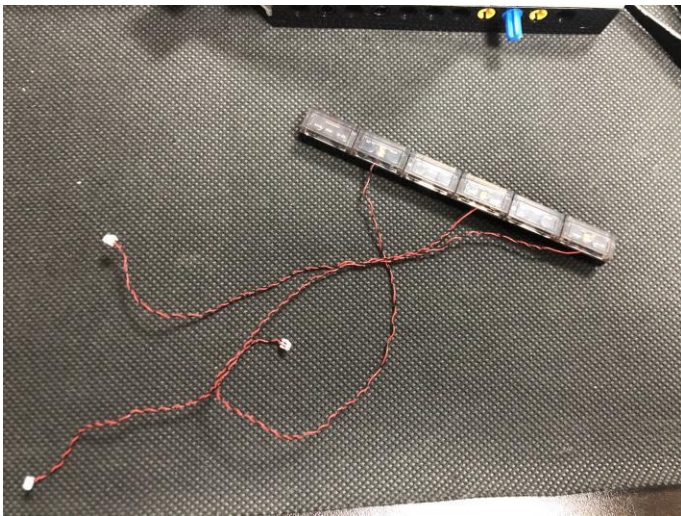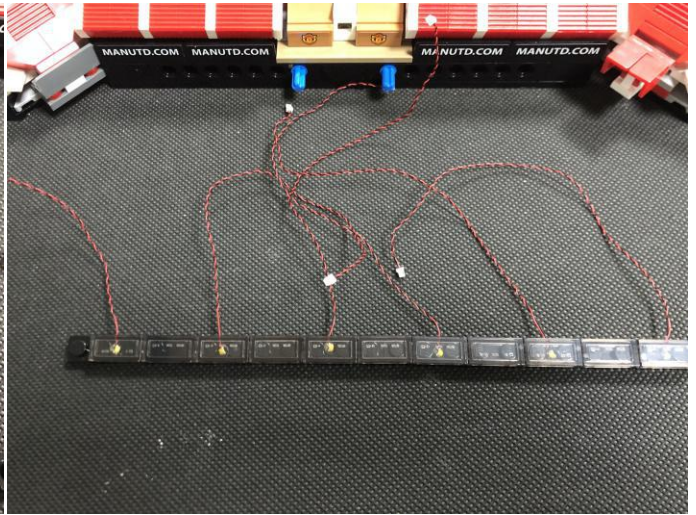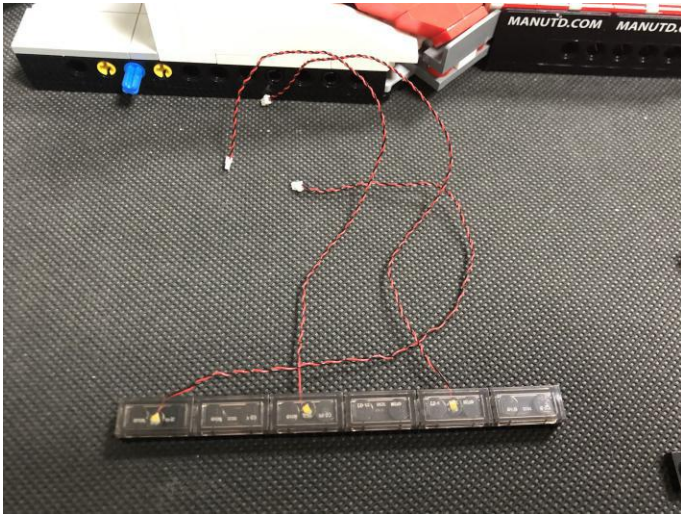

Remove the 1x2 transparent plate

Take 12 pieces of 15cm warm white dot lights, with the dot facing up, and fix the dot lights with the removed 1x2 transparent plate, as shown in the figure blew.

Install the rest according to the above method, as shown in the figure below.

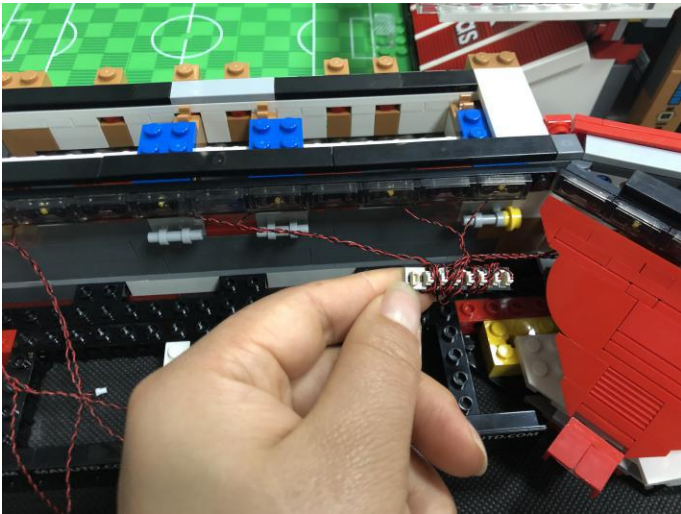Remove the middle seat and restore the transparent parts after the seat, as shown below:

Take two 8-port expansion board

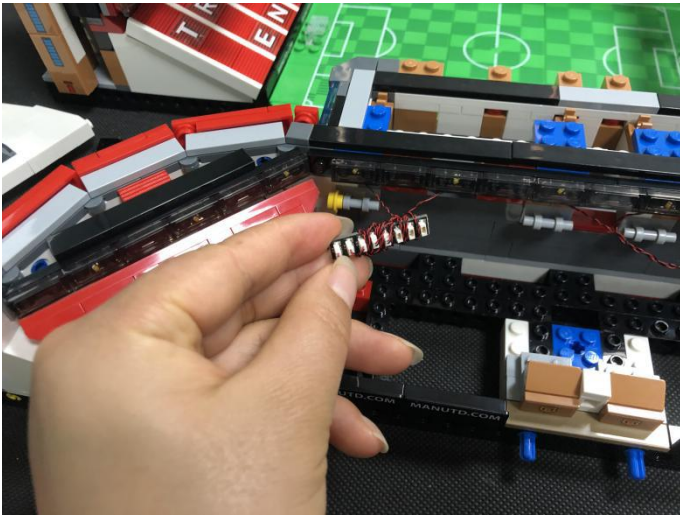Connect the 7 light cables on the right to one of the expansion board, as shown below

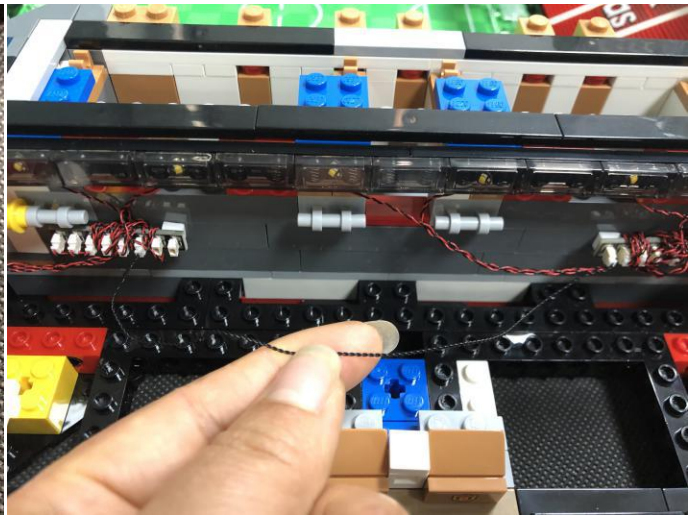Use adhesive square to stick the expansion board at the position shown below

Then connect the remaining 5 light cables on the left to another new expansion board, and stick the board to the wall with adhesive square, as shown in the figure below
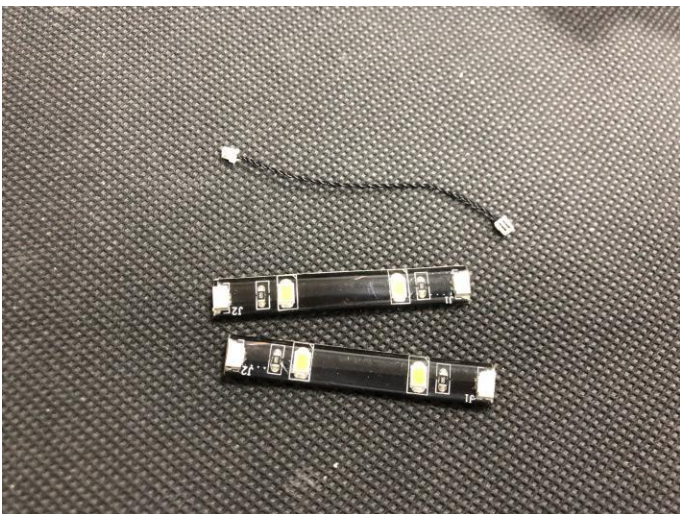
Take a 15cm connecting cable and connect the two expansion board with the connecting cable, as shown in the figure below:
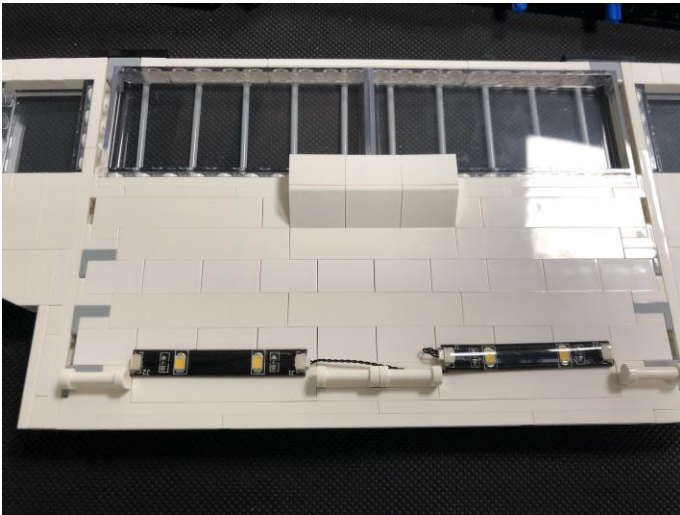

Take 2 warm white strip lights and a 5cm connecting cable. Connect the two strip lights with the connecting cable, as shown in the figure below.
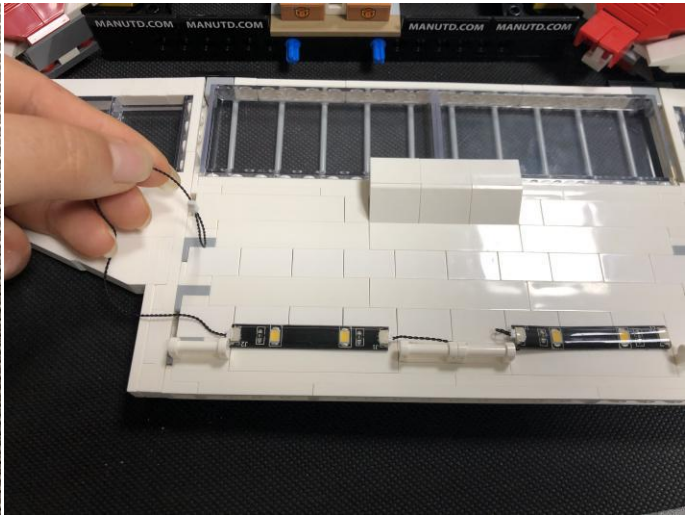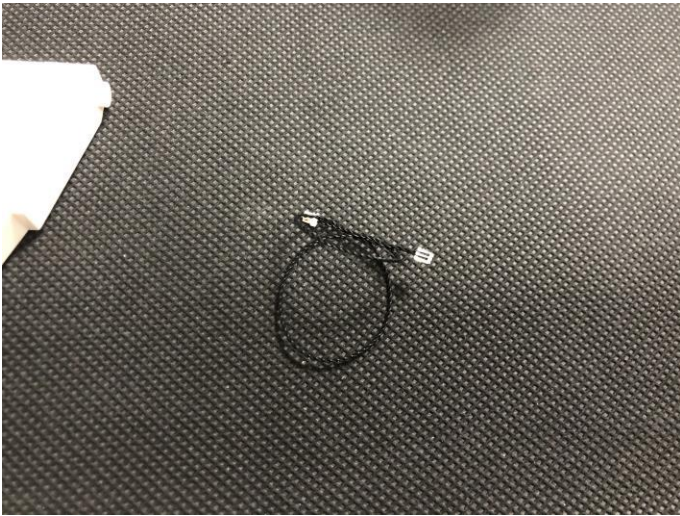

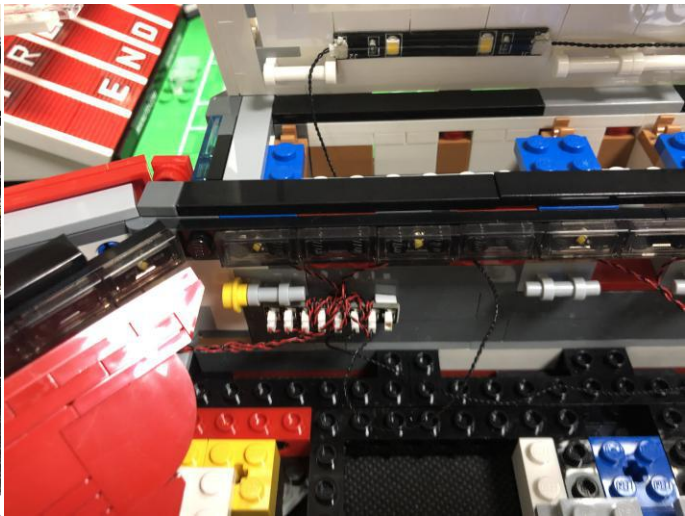Stick the strip light on the top cover

Take a 15cm connecting cable and connect the cable to the left strip light, as shown below

The connecting cable passes through the gap, leads to the expansion board position, and then connects the connecting cable to the free position of the expansion board, as shown in the figure below:

Take a 30cm connecting cable and connect the cable to the right strip light, as shown below:

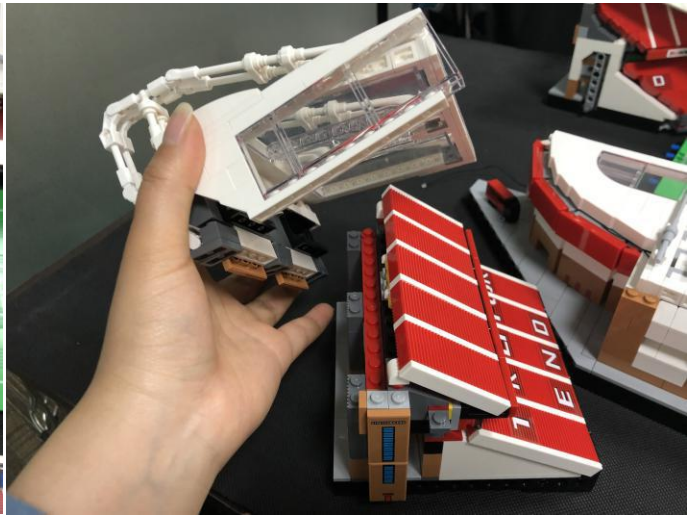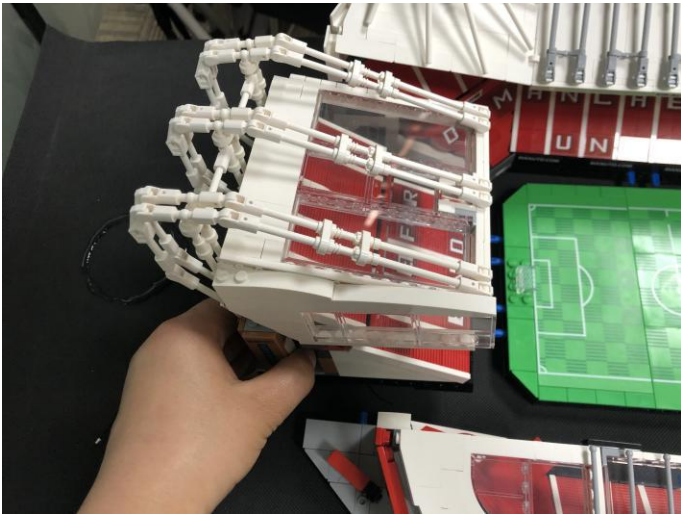Restore the middle seat as shown below

Pass the 30cm connecting cable on the right light bar through the small auditorium on the right and restore the top cover, as shown in the figure below

Now install the left auditorium and remove the top cover as shown below

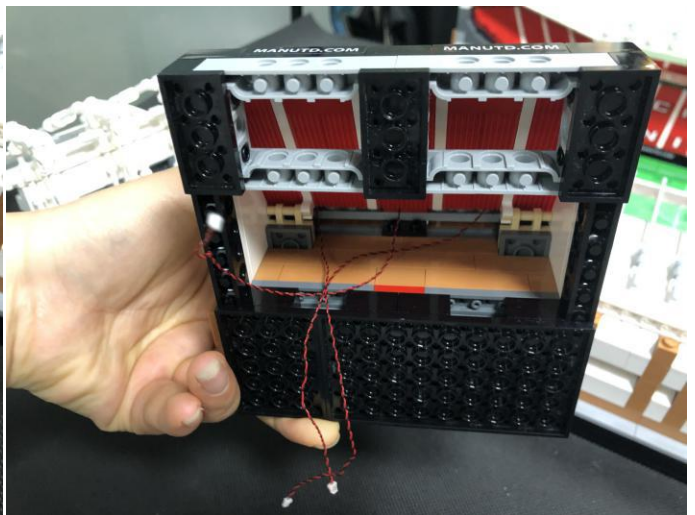Open the second floor seat section, as shown below

Remove the part below

Take 3 pieces of 15cm warm white dot lights with the dot facing up, and fix the dot lights with the removed 1x2 transparent plate, as shown in the figure below

The light cables leads to the bottom then restore it , as shown below

Take a warm white strip light and a 15cm connecting cable, and connect the connecting cable to the strip light, as shown in the figure below:
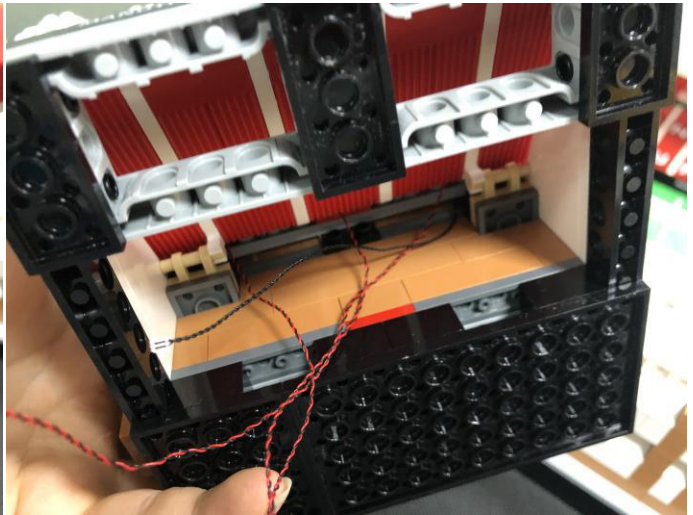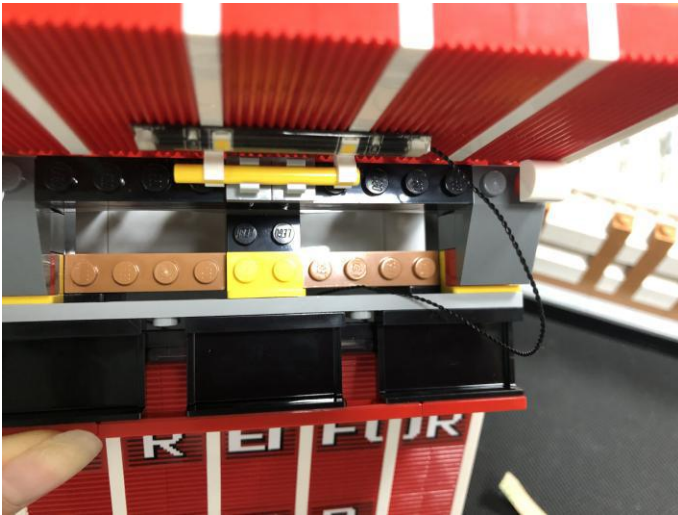

Stick the strip light under the open seat, as shown below
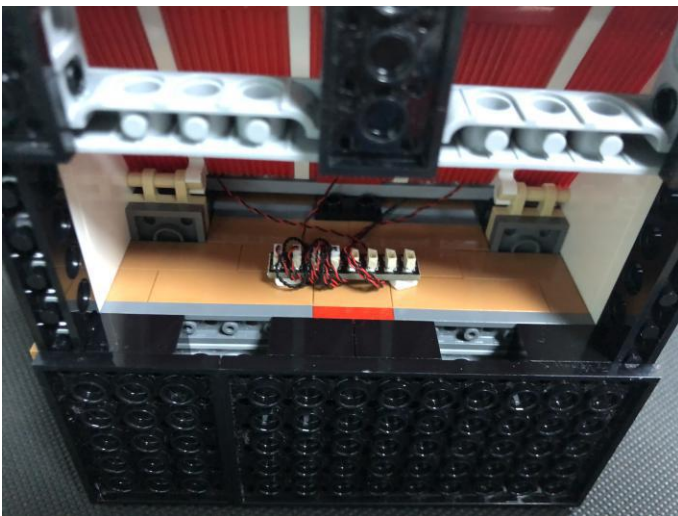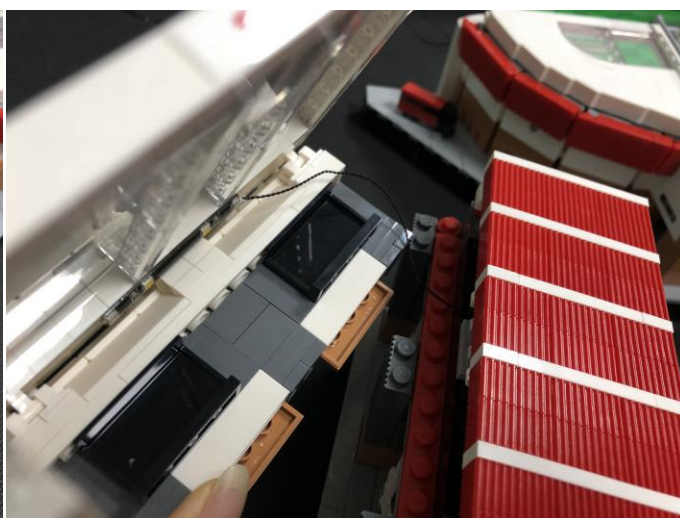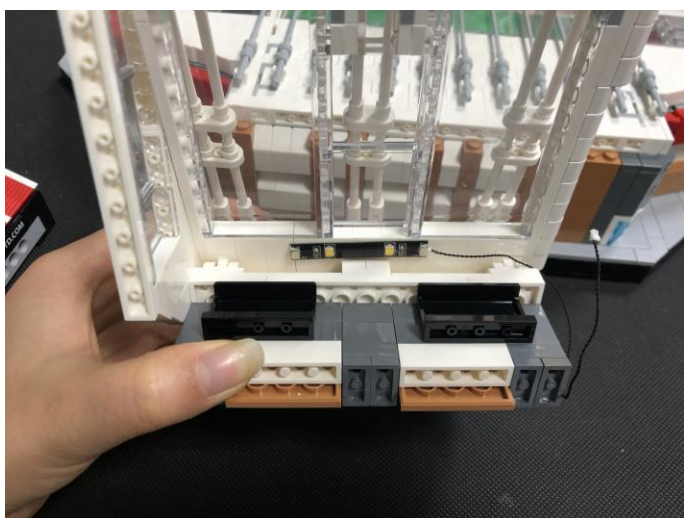

The cable leads to the bottom, as shown in the figure below

Take an 8-pot expansion board and connect all 3 light cables and 1 connecting cable to the board, as shown in the figure below
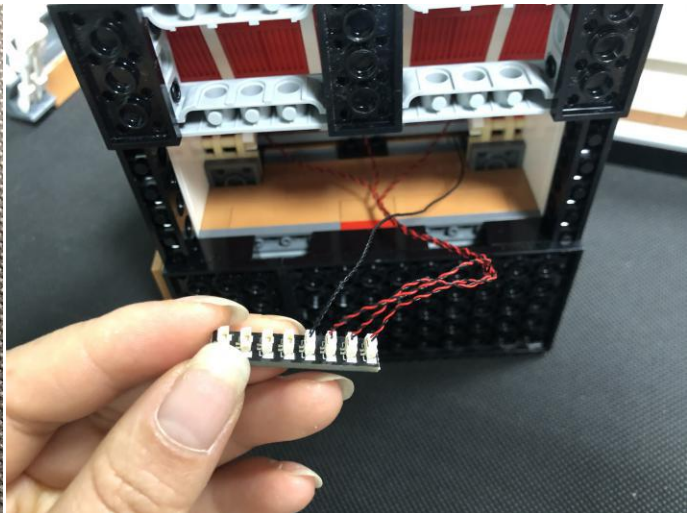
Organize the light cable, and stick the board to the position shown below with adhesive square, as shown below

Take a warm white strip light and a 15cm connecting cable, and connect the connecting cable to the strip light, as shown in the figure below:

Stick the strip light at the position shown in the figure below, and the connecting cable passes through the gap position in the figure below, as shown in the figure below
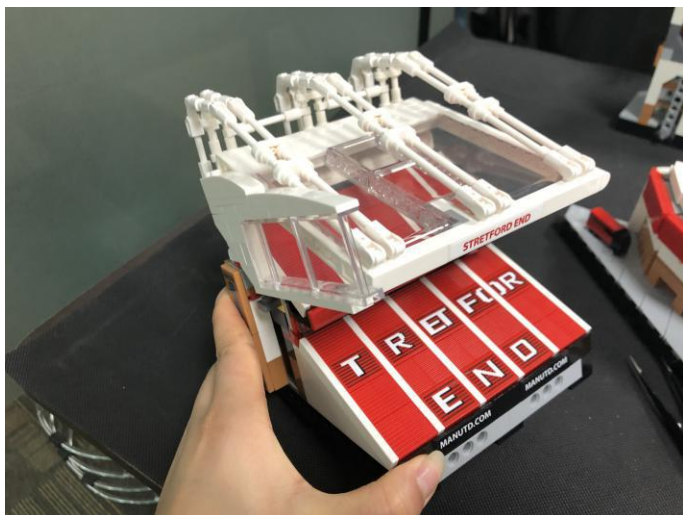

Open the seat, let the connecting cable passes through the gap position in the figure below and leads to the bottom, as shown in the figure below
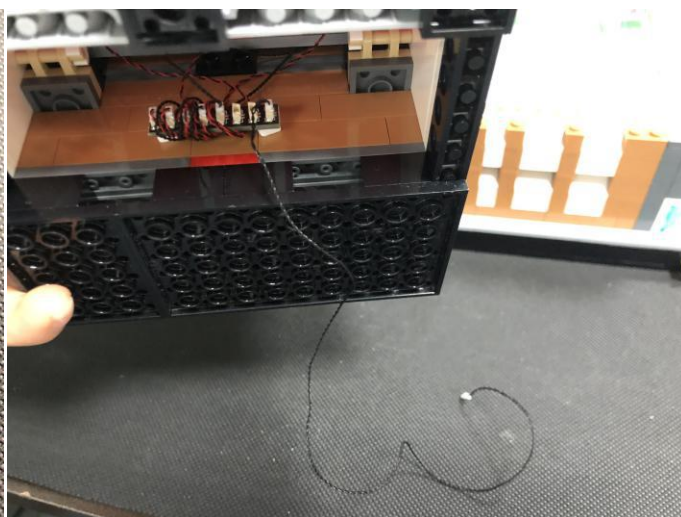

Restore the top cover, pull the connecting cable from the bottom, and then plug it into the expansion board, as shown in the figure below:
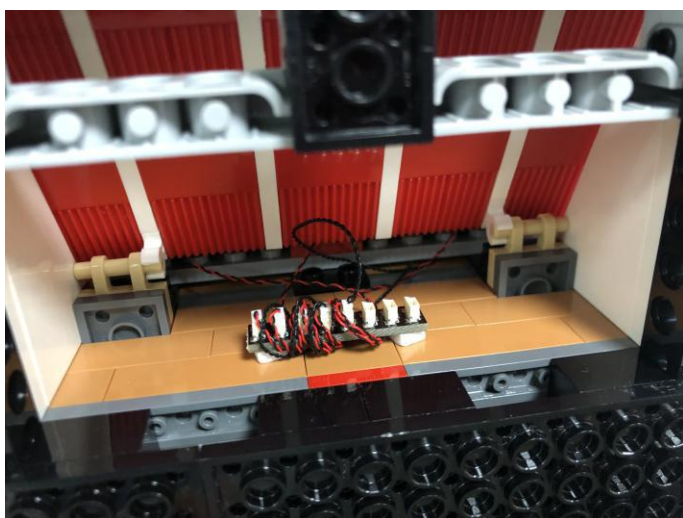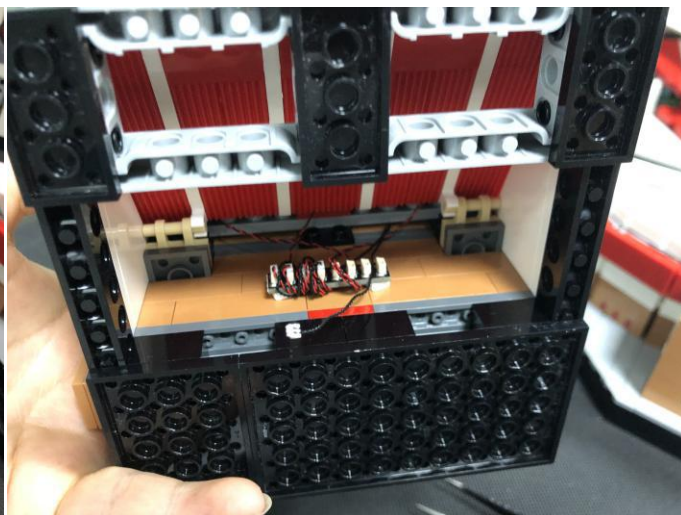
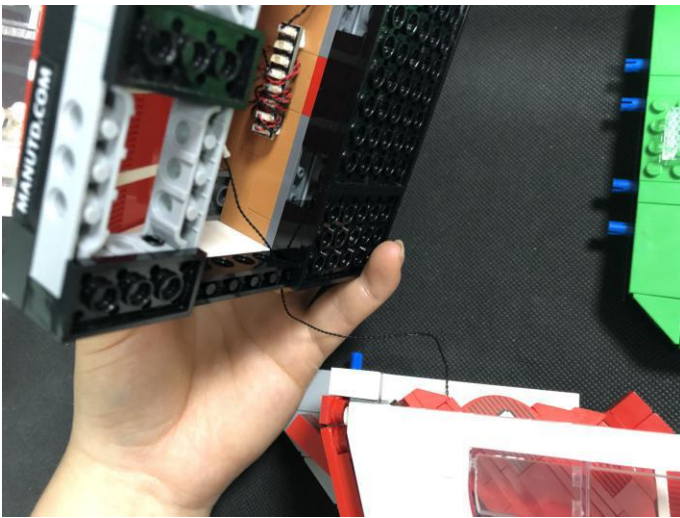Take a 30cm connecting cable and connect it to the expansion board, as shown below

Pass the connecting cable through the hole in the block below

Pass the connection cable drawn from the first stand through the hole in the block below, and connect it to the board, as shown in the figure below
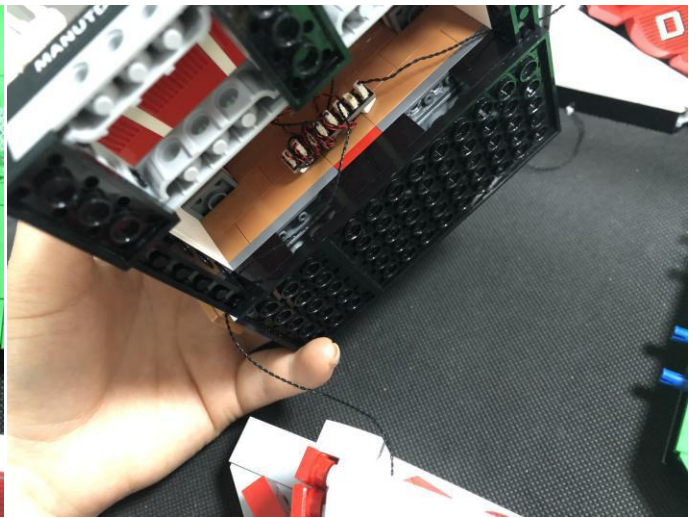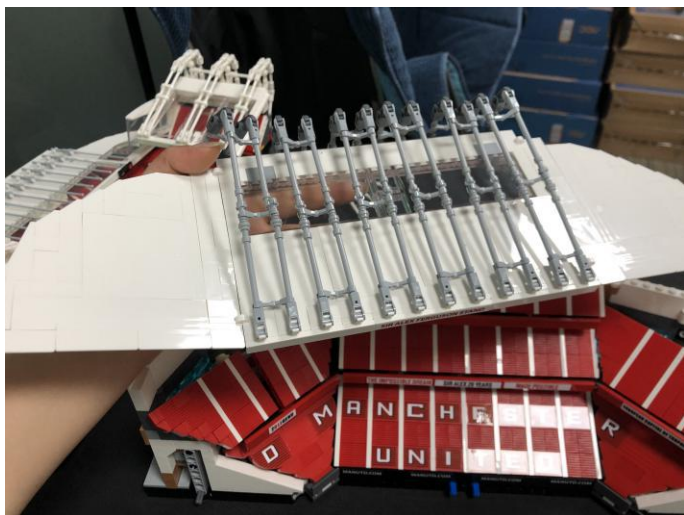

Replace this part and remove the stand below

Remove the top cover of the stand
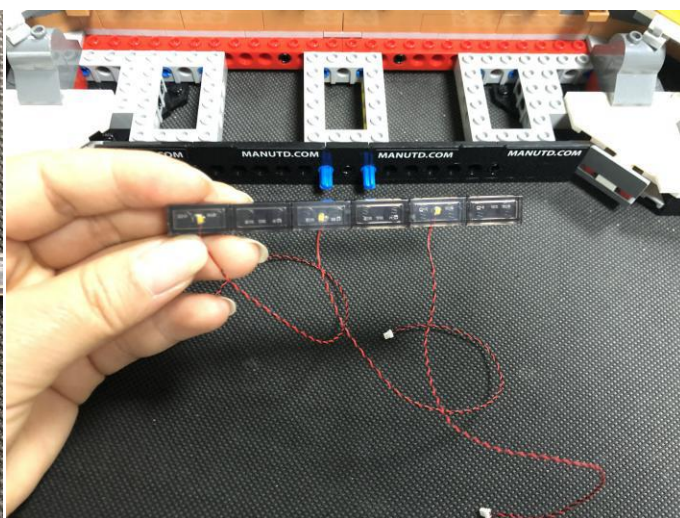
Remove the pieces as shown below

Take 3 pieces of 15cm warm white dot lights, take the transparent part removed from the left seat, and remove the 1x2 transparent board in 3 positions as shown in the figure

With the dot lights facing upward, fix the dot lights with the removed 1x2 transparent plate, as shown in the figure below

Replace it and twist the light cables together to the right, as shown in the figure below:
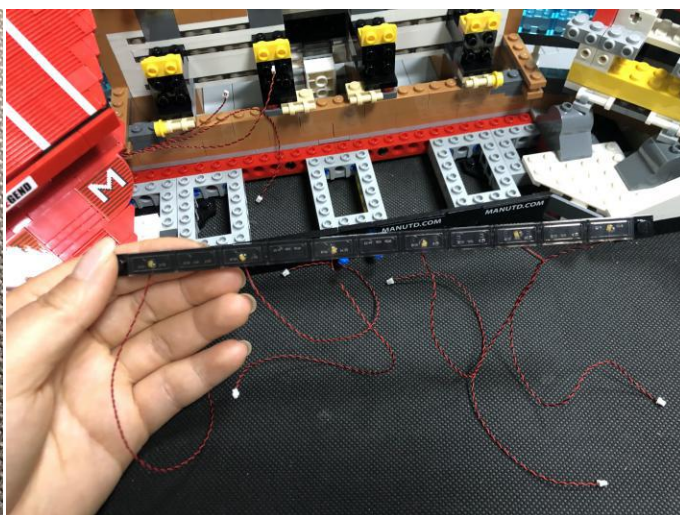

Restore the LEGO pieces of the left part, as shown below

Now install the middle part, remove the 1x2 transparent board in 6 positions as shown in the figure below
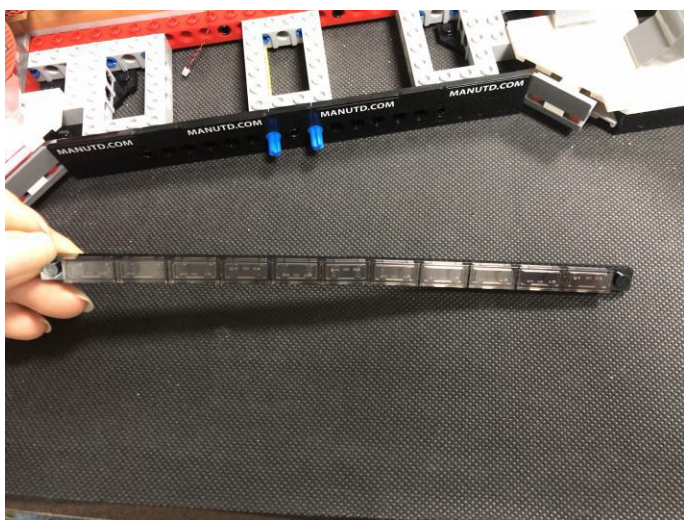
Take 6 pieces of 15cm warm white strip lights and install them as above

Restore the pieces as shown below
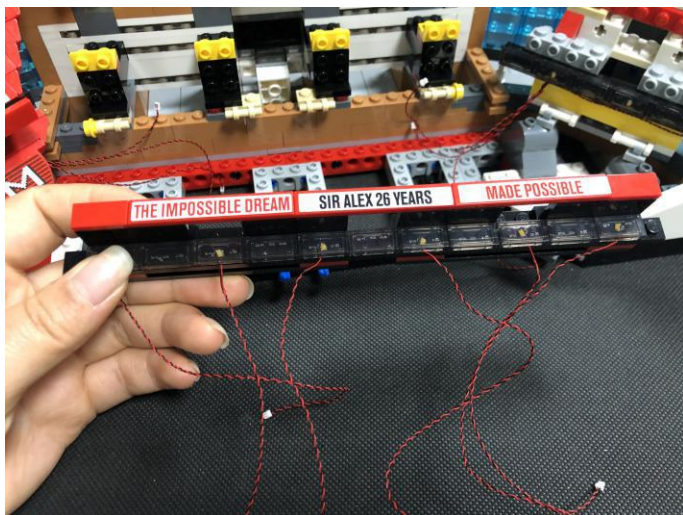
Now install the right part, remove the 1x2 transparent board in 3 positions as shown in the figure below
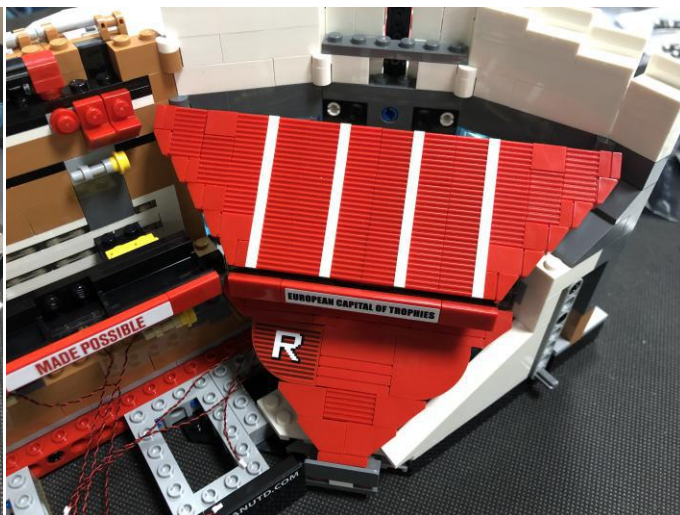

Take 3 pieces of 15cm warm white dot lights and install them according to the above method, as shown in the figure below
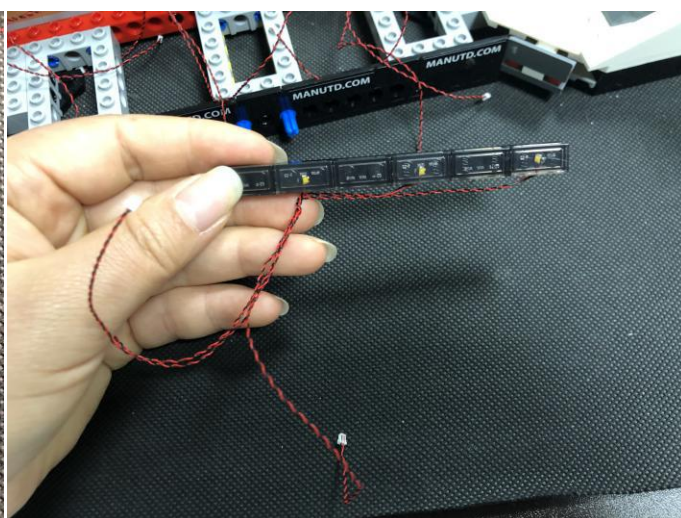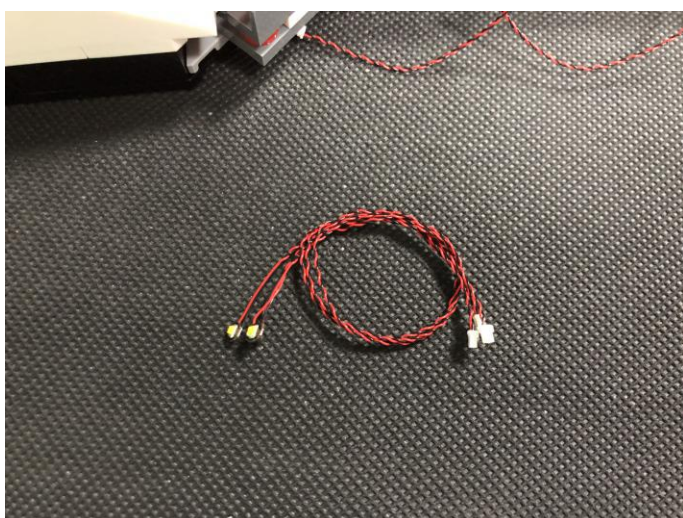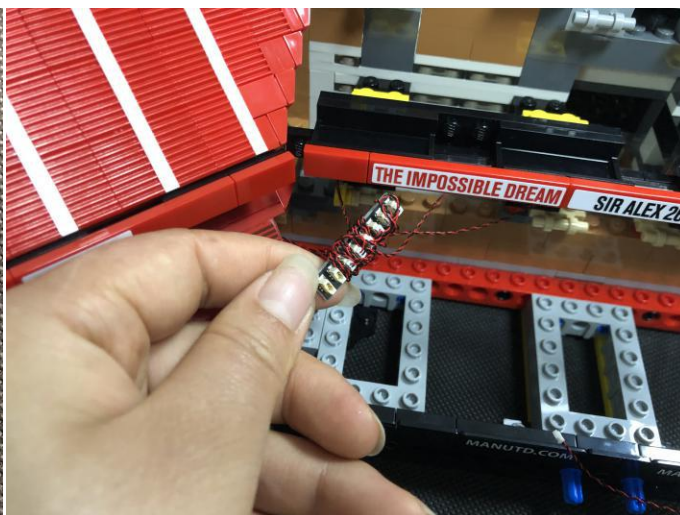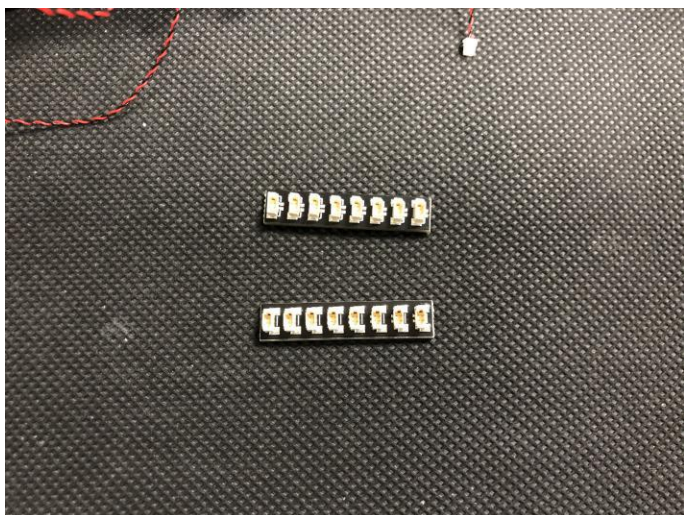

Restore the right seat, as shown below

Take two 8-port expansion boards and connect the 6 light cables on the left to one of the boards, as shown in the figure below
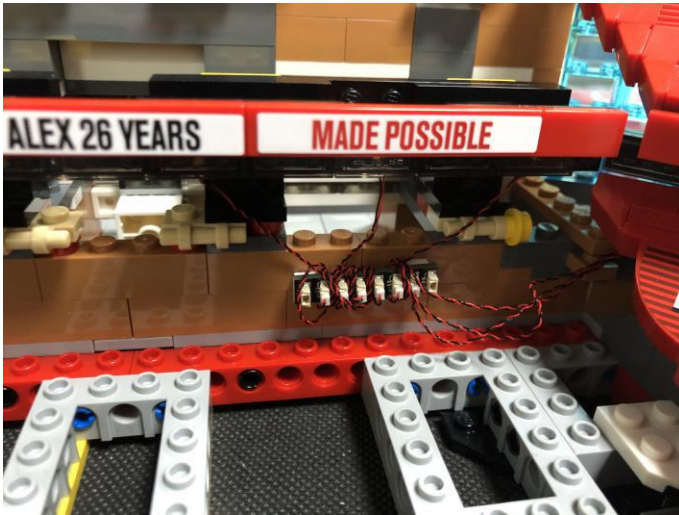

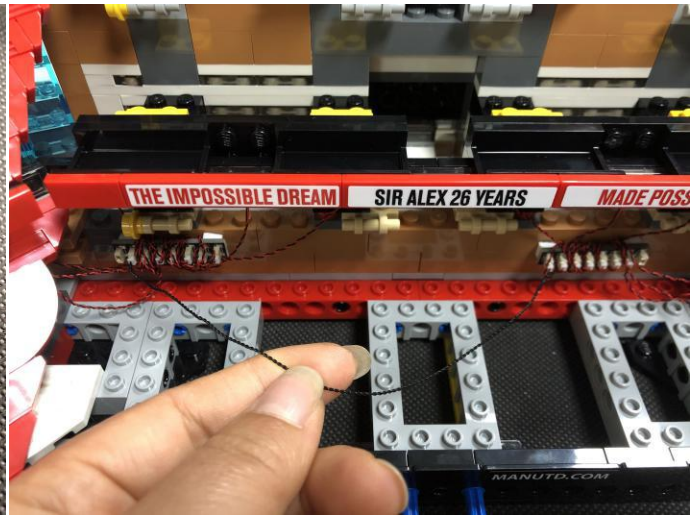
Organize the light cables, and stick it to the position below with adhesive square

Connect the 6 light cables on the right to another new board, arrange the light cables, and stick them to the position shown below with adhesive square.

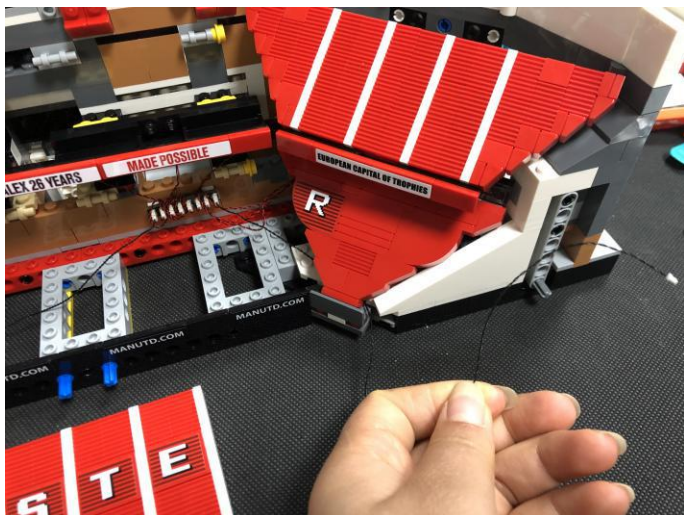Take a 15cm connecting cable and connect the two boards with the connecting cable, as shown in the figure below

Take a 30cm connecting cable and connect it to the 8-port expansion board on the right, as shown below

The connecting cables passes through the seat on the right and pull it to the right, as shown in the figure below
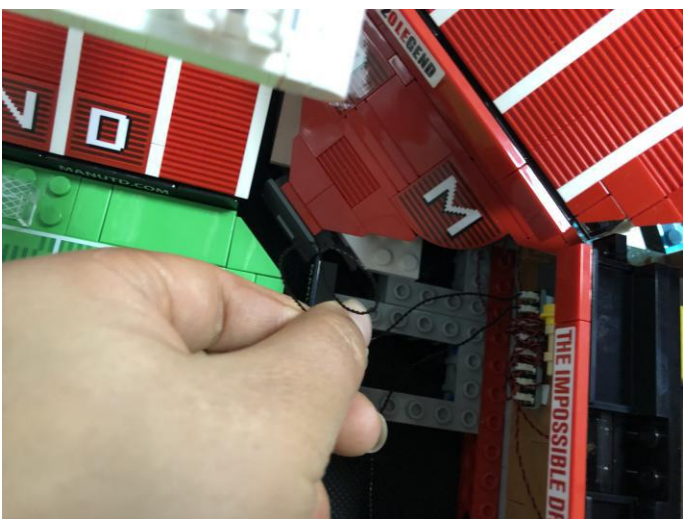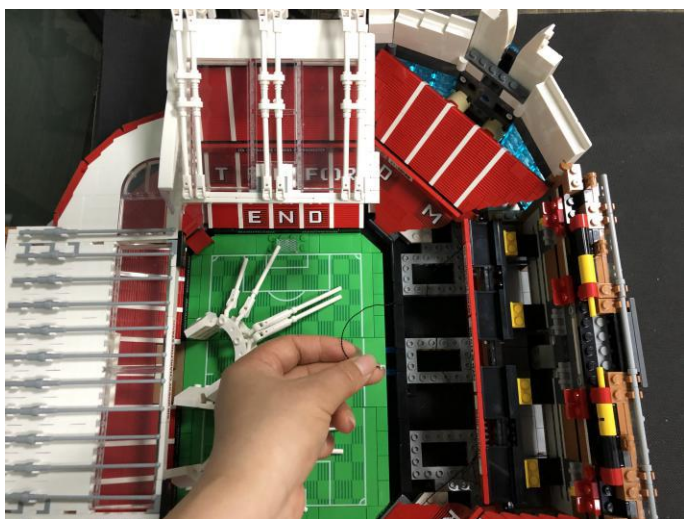
Pass the connecting cable drawn from the second installed stand through the position shown below, as shown below
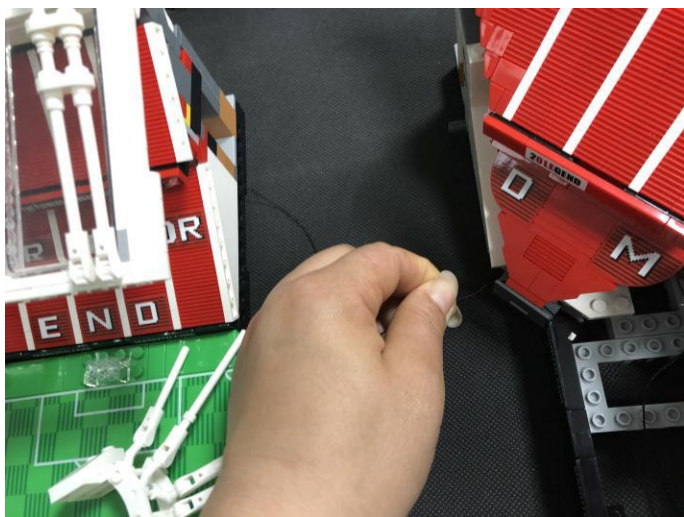
Replace the entire stand, and then connect the cable just pulled to the left board, as shown in the figure below
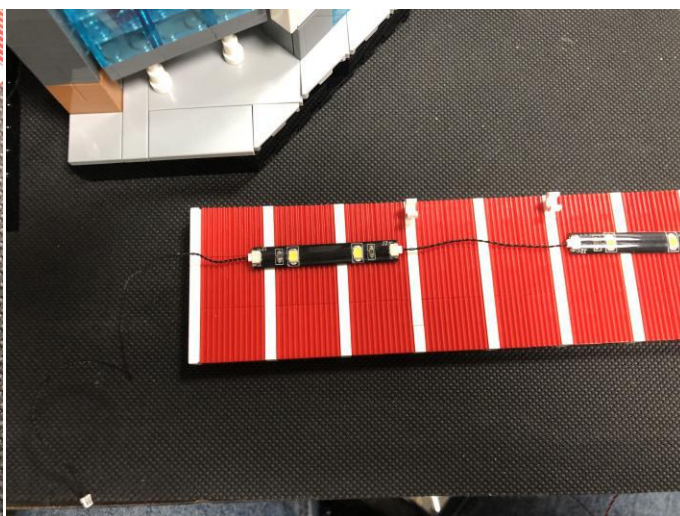

Restore a seat

Take 2 warm white strip lights, a 15cm connecting cable, connect the two strip lights with the connecting cable, and stick them under the second floor seat, as shown in the figure
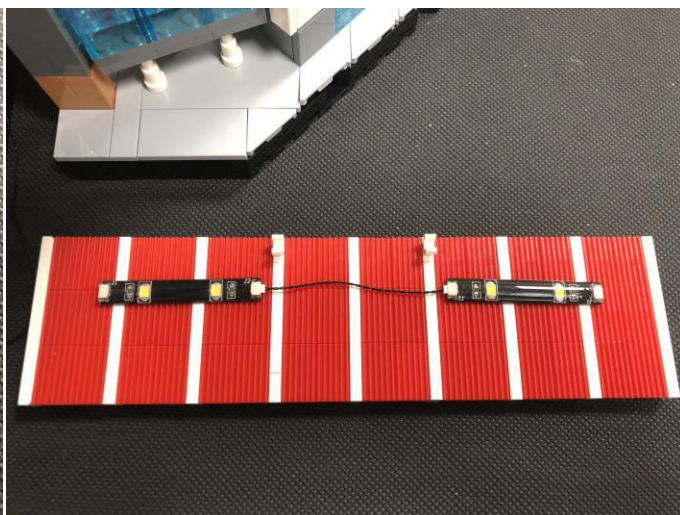
Take a 15cm cable and connect it to the left strip light, as shown below:

Restoring seats on the second floor, with the connecting cable on the strip light facing to the right

Restore the following pieces

Install lights in the top cover now

Take 4 warm white strip lights and 25cm connecting cables, and connect the 2 strip lights with connecting cables, as shown in the figure below

Take a 15cm connecting cable and use the 15cm cable to connect the two strip lights just connected, as shown in the figure below
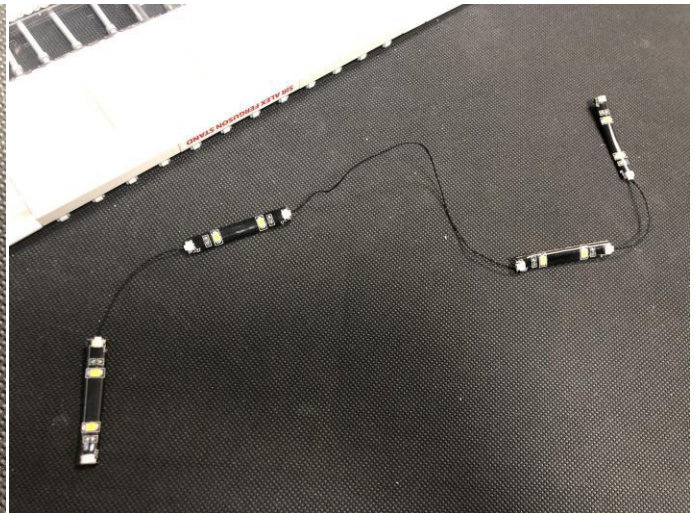
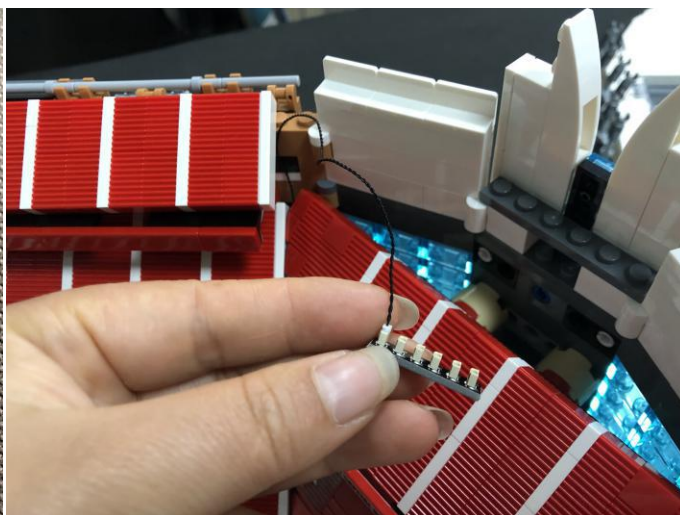
Then stick the strip light at the position below
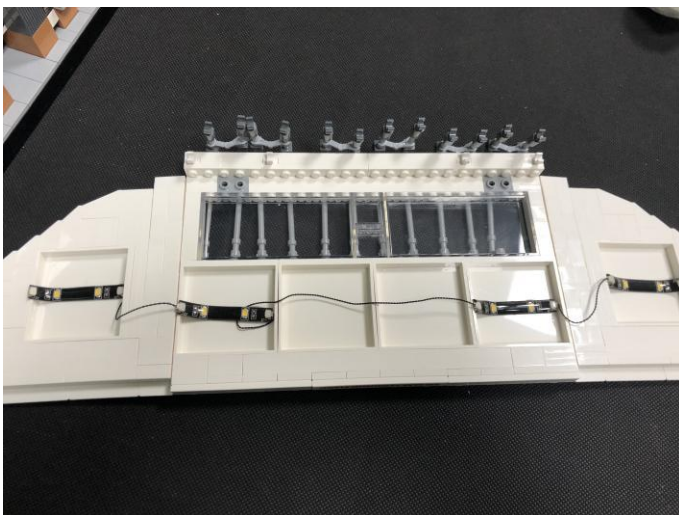
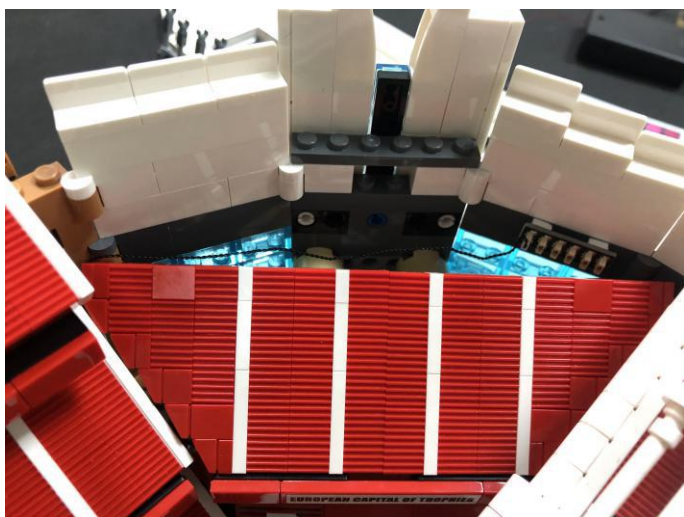Take a 15cm connecting cable and connect it to the left strip light, as shown below
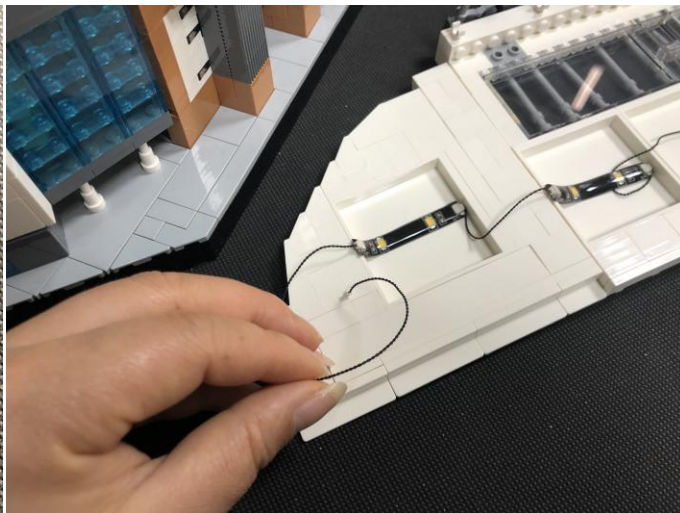
Take a 6-port expansion and connect the cable of the strip light on the middle second floor seat to the board, as shown in the figure below.

Use adhesive square to stick the board at the position shown below

Then connect the connecting cable of the light bar on the top cover to the 6-port expansion board, as shown in the figure below.

Restore the top cover

Now install the last stand, split it out first, as shown below
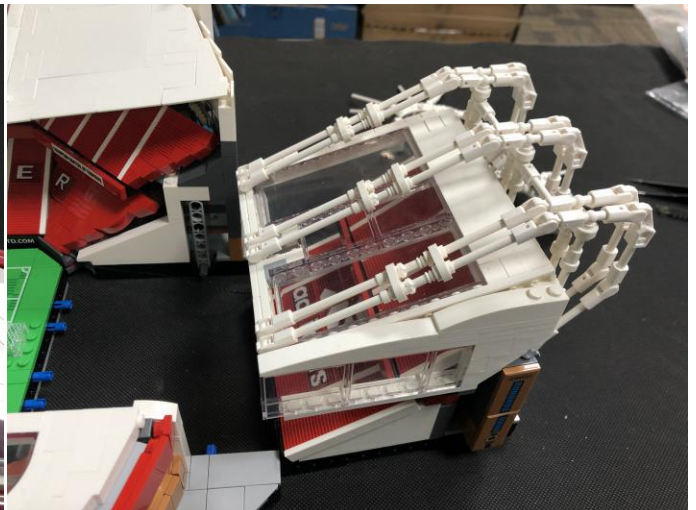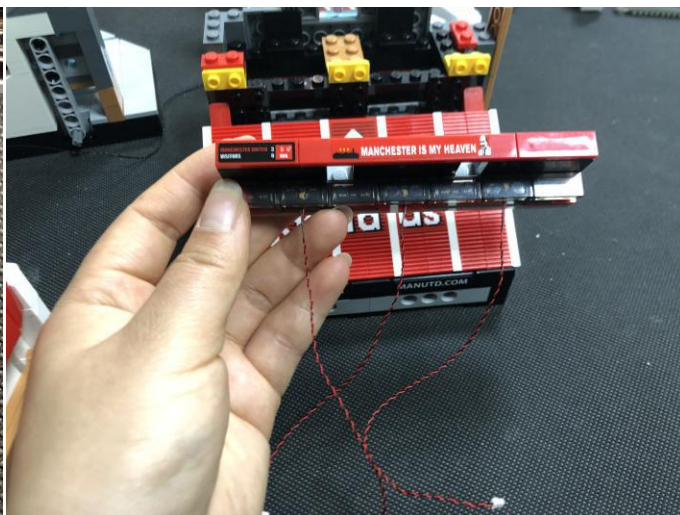

Remove the second layer, as shown below
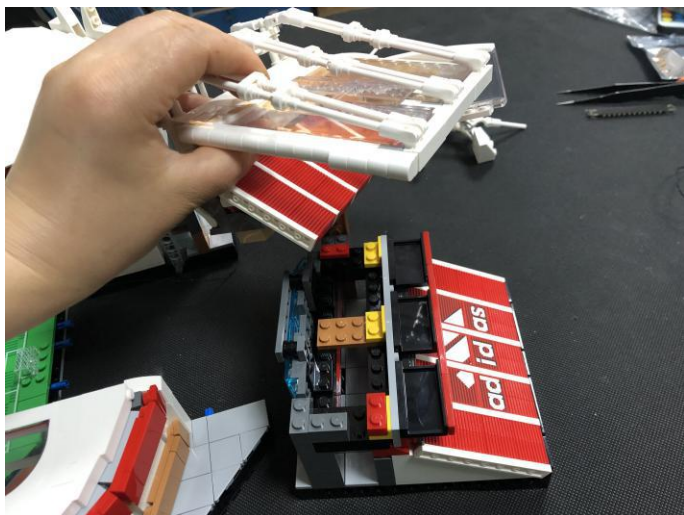
Remove the following pieces

Remove the 1x2 transparent boards at the three positions as shown in the figure below

Take 3 pieces of 15cm warm white dot lights and install them as above

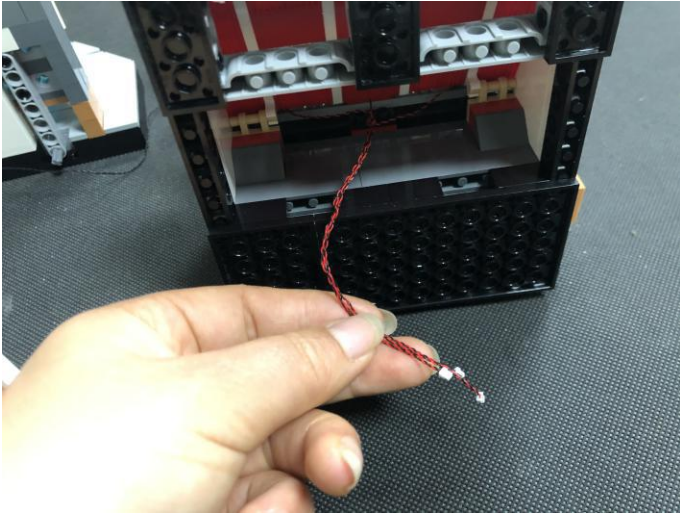Pass the light cable through the gap behind the seat to the bottom, as shown in the figure below
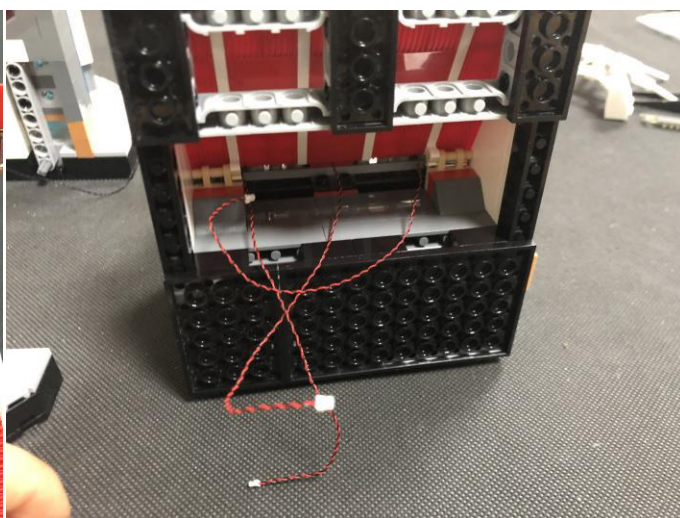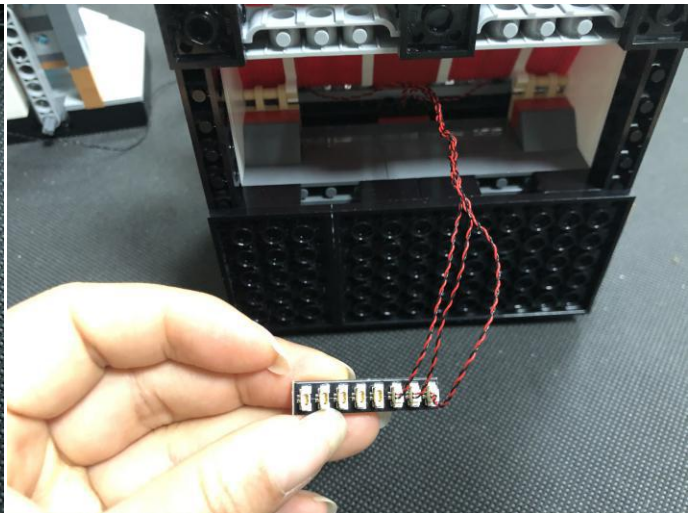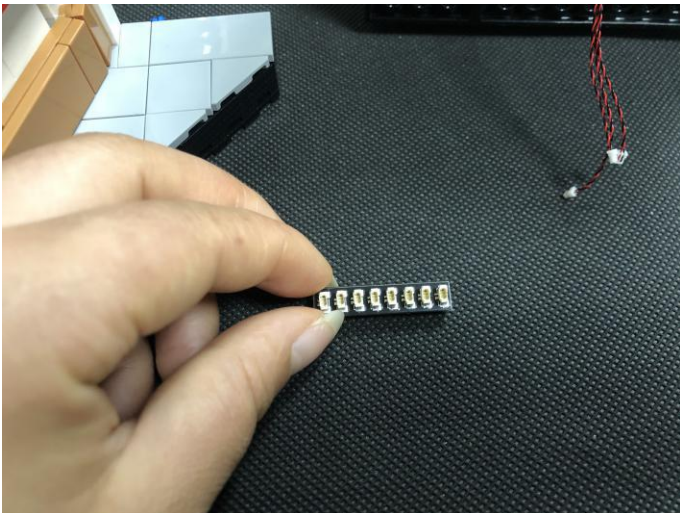

Restore the pieces
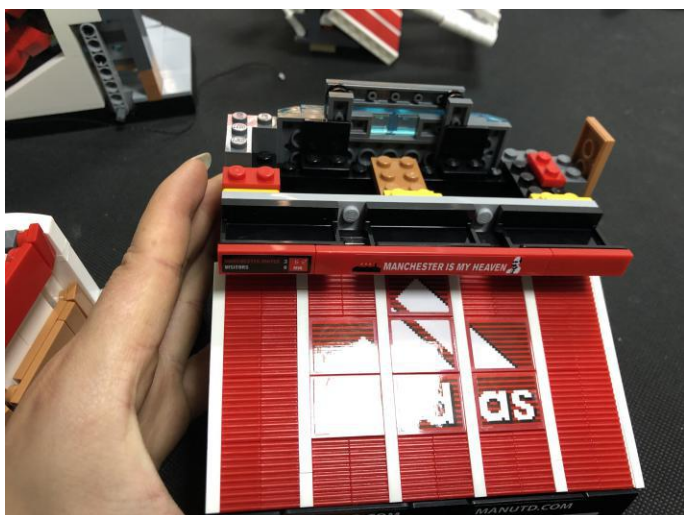
Twist the light cables into a thick one, as shown below

Take an 8-port expansion and connect 3 light cables to the board, as shown in the figure below

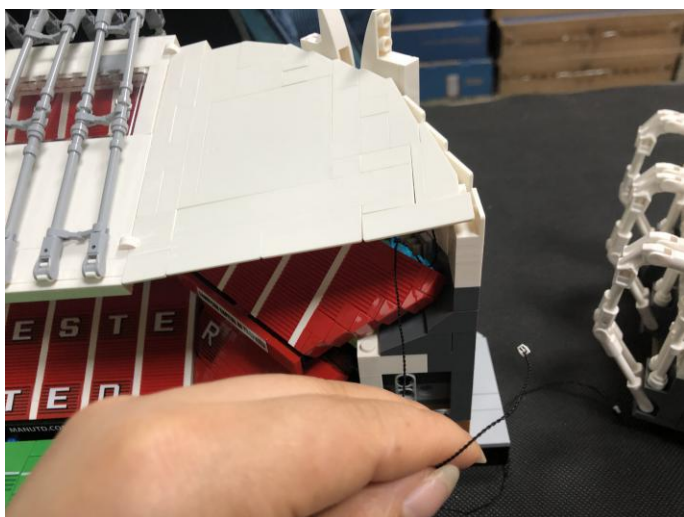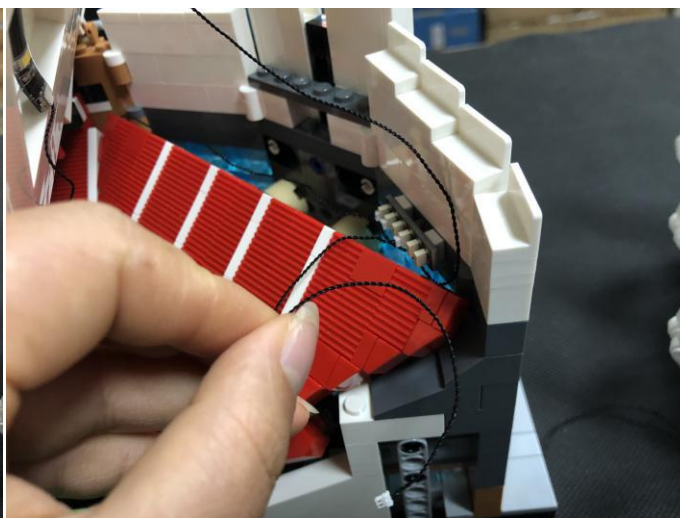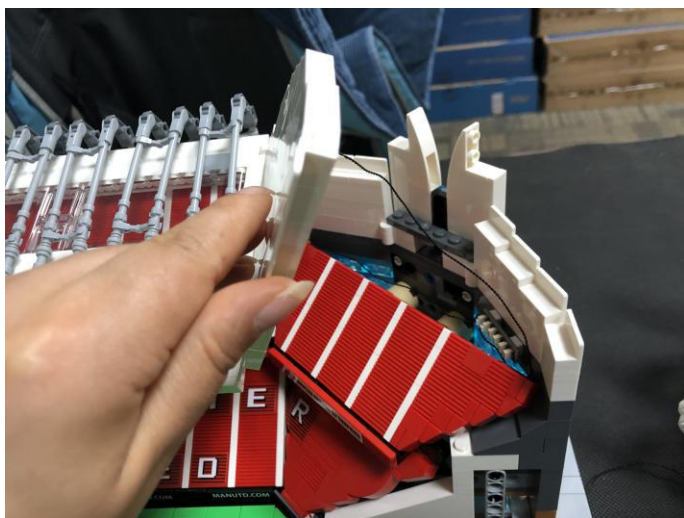Organize the light cables, and stick it to the position below with adhesive square
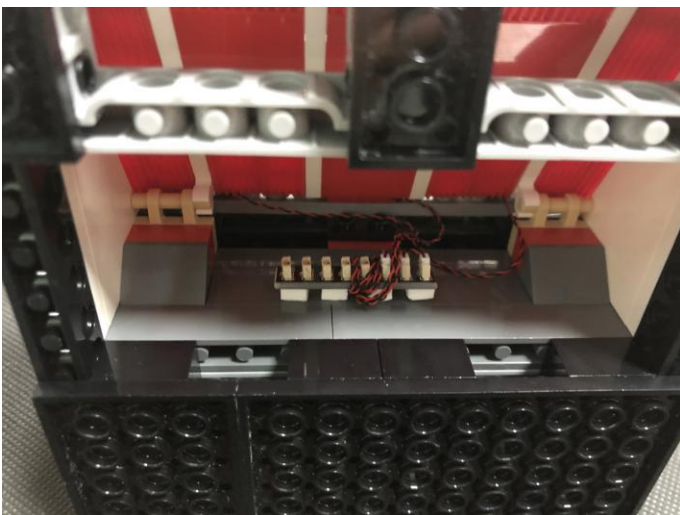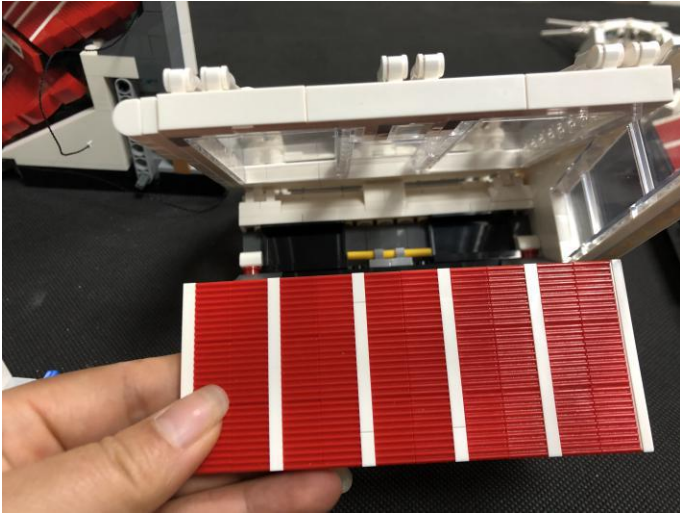

Take one 15cm connecting cable

Open the top cover in the figure below, connect the cable to the expansion board here, and pull it to the right, as shown in the figure below
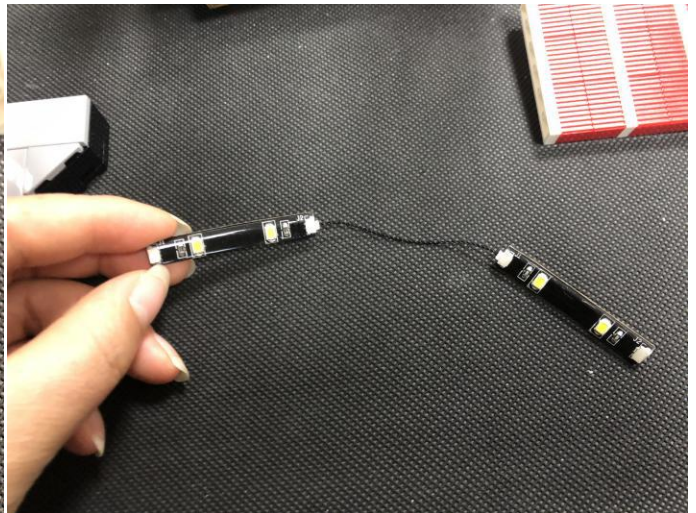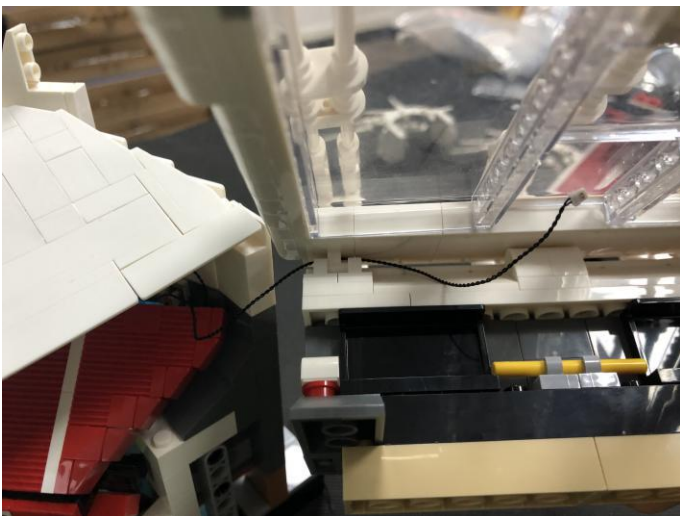

Remove the seats as shown below

Take 2 warm white strip lights and one 15cm connecting cable, and connect the two strip lights with the connecting cable, as shown in the figure below
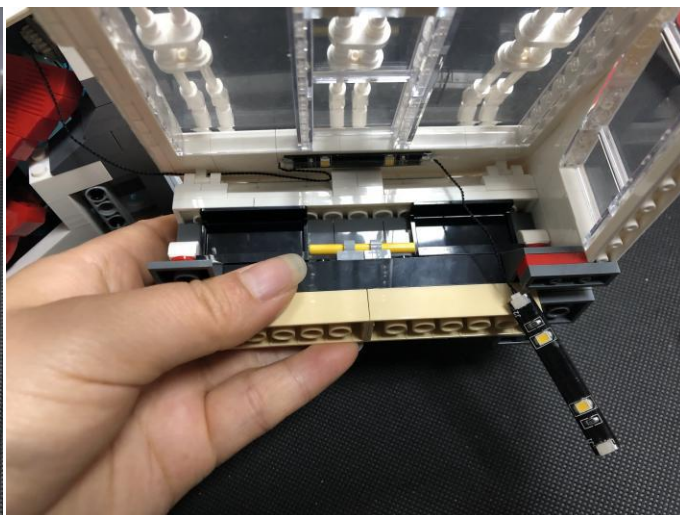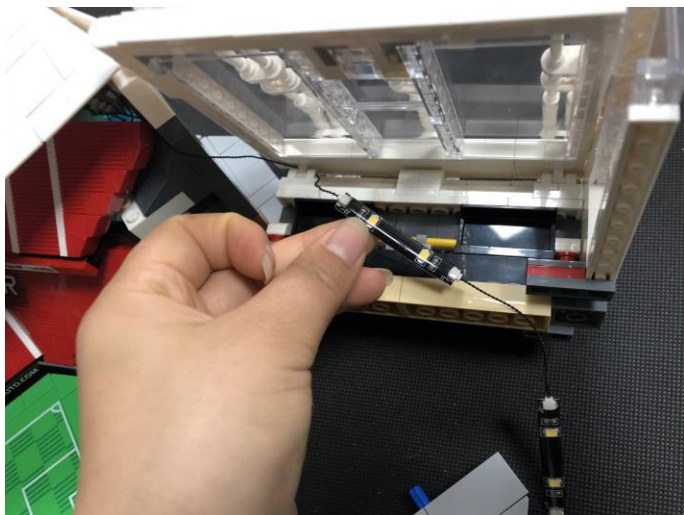

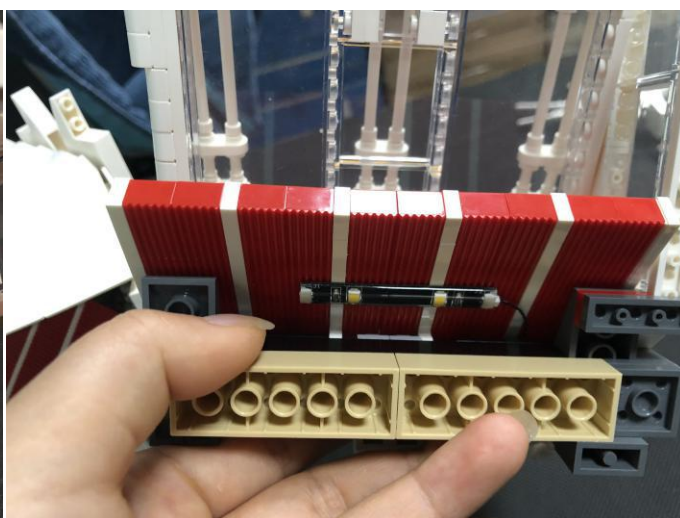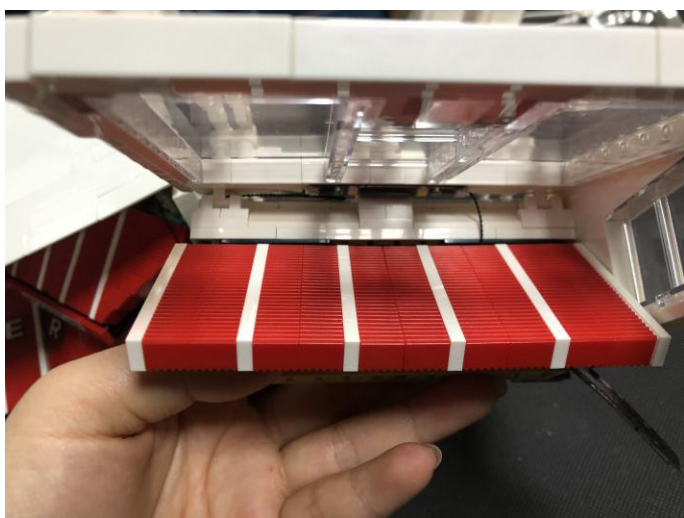Pass the connecting cable just pulled out from the 6-port expansion through the position shown below

Then connect it to the one of the two strip lights just connected, then stick it in the position shown below with the other one faces down, as shown in the figure below
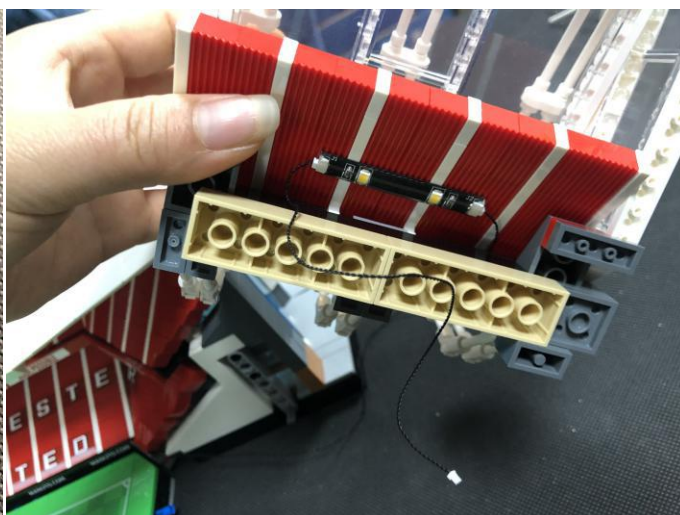
Replace the seat and stick the downward-facing light bar below the seat, as shown in the figure below
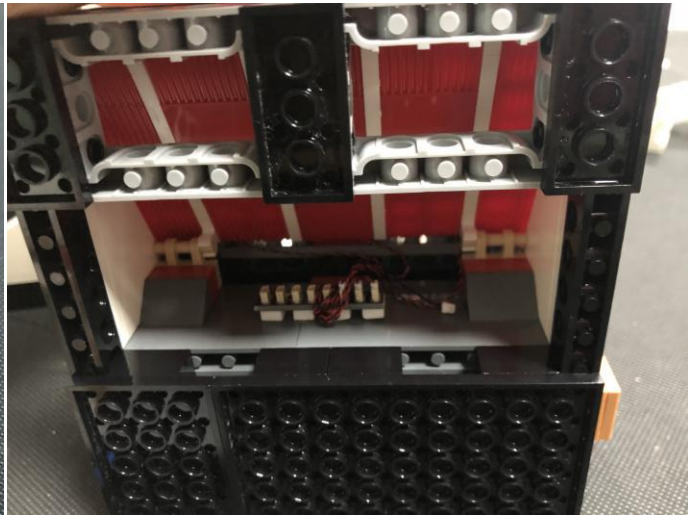

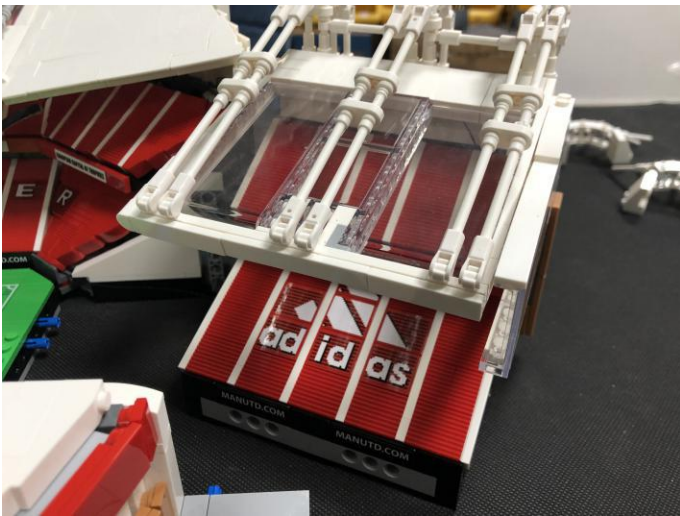Take a 15cm connecting cable and connect it to the seat strip light, as shown below

Pass the connecting cable from the gap in the figure below to the bottom, as shown in the figure below
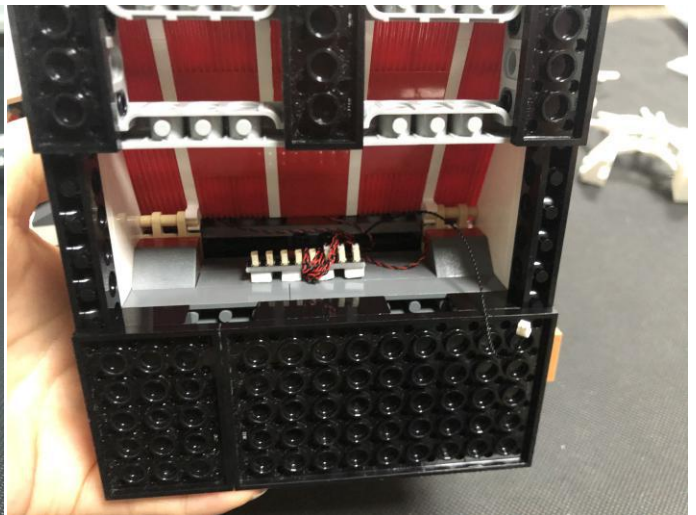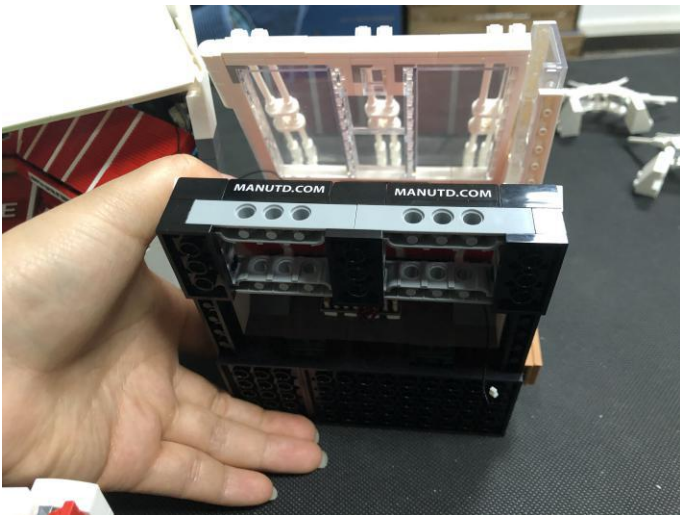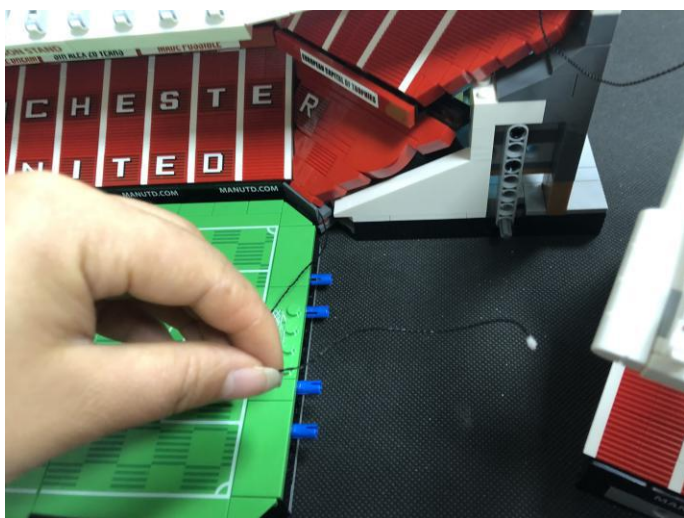
Restore the removed part

Put it on its side and connect the cable to the expansion board, as shown in the figure below
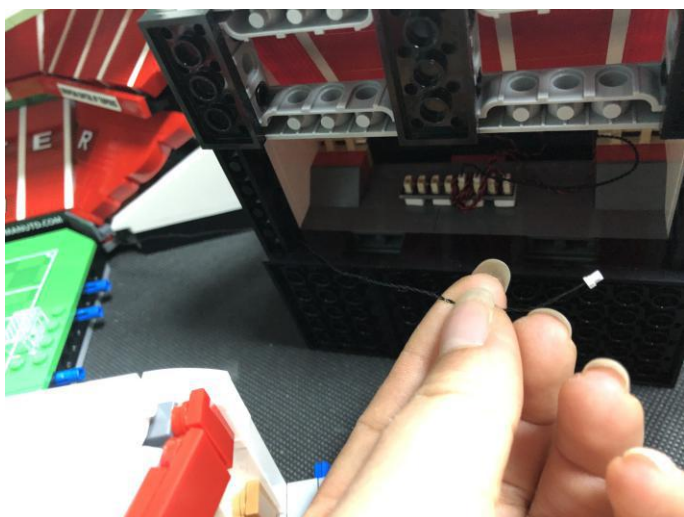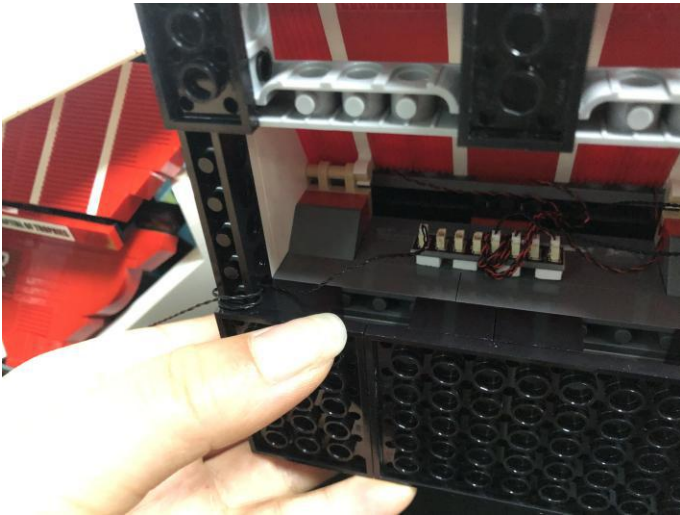
Pass the 30cm connecting cable drawn from the third installed stand through the hole in the block below, as shown below
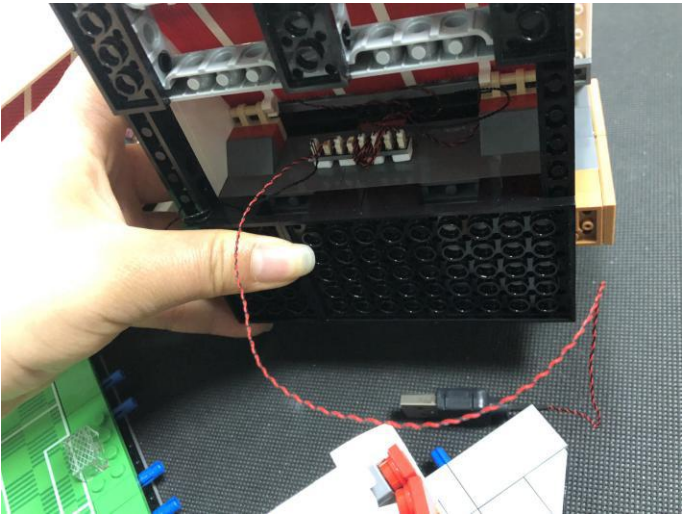

You can wind the extra connecting cables a few times and then plug it into the expansion board, as shown below
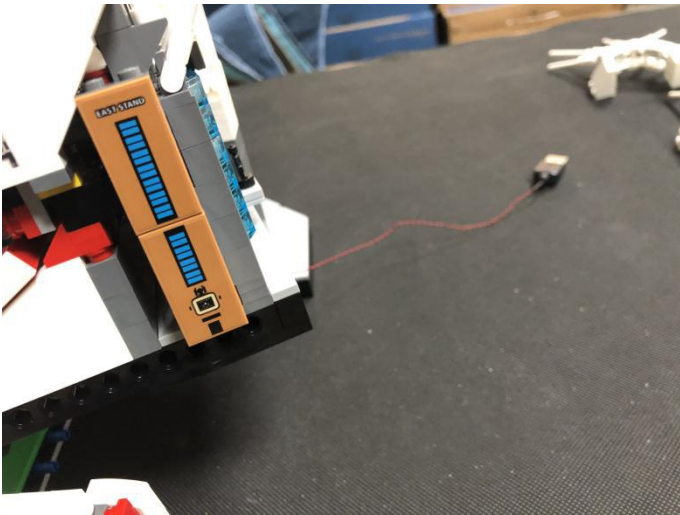
Take USB and connect it to the expansion board, as shown in the figure below

Pull the USB from the bottom toward the outside of the court, as shown below

Restore the stands

Now we have finished the lighting kit!