

ROLLER COASTER #10261 Advanced Version

Package contains:

15x Warm White Strip Lights
4x White 30cm Dot Lights
6x Flashing White 15cm Dot Lights
6x 5cm Connecting Cables
4x 15cm Connecting Cables
6x 30cm Connecting Cables
3x 50cm Connecting Cables
3x 6-Port Expansion Board
2x 8-Port Expansion Board
7x Multi-Colour Light Strings
1x AA Battery Pack

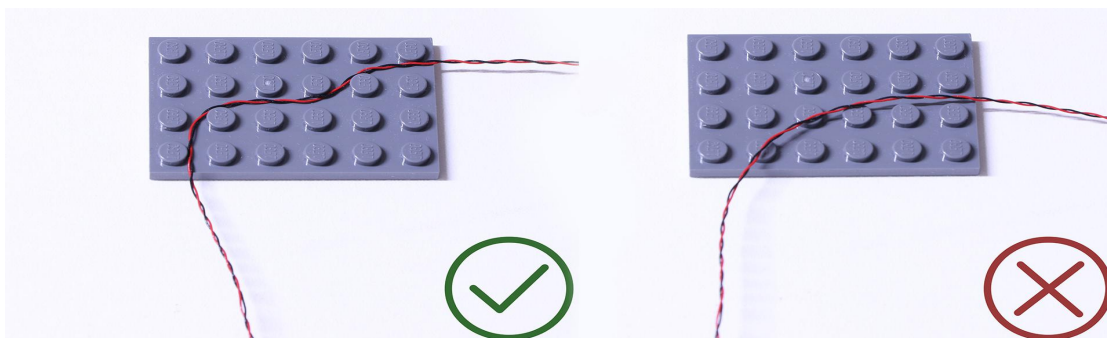
LEGO Pieces

7x White 1x6 Base Plates
8x Black 1x6 Base Plates
1x Trans Red 1x1 Round Plate
1x Trans Blue 1x1 Round Plate
1x Trans Green 1x1 Round Plate
2x Black Plate Modified 1x2 with handle on End-Close Ends
2x Black Plates 1x2 with stud
16x Adhesive Squares

Note:

Place wires on the surface or under the LEGO building blocks.

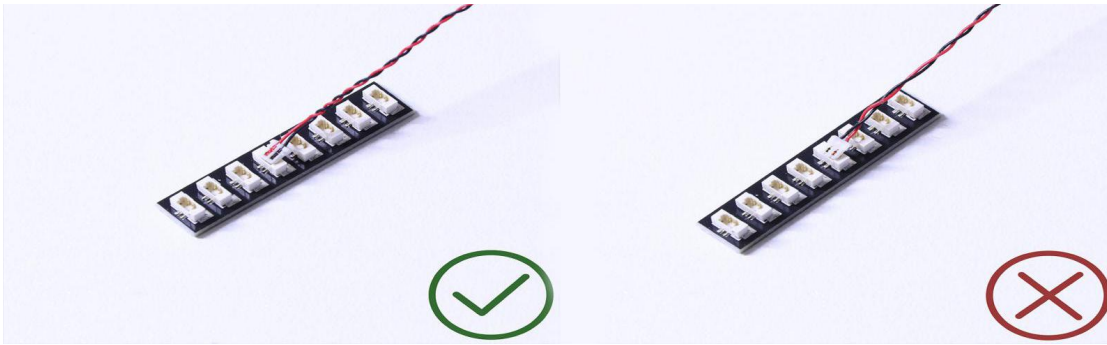
The wire can be placed between the building blocks or under the block, but they should be placed between the studs correctly.



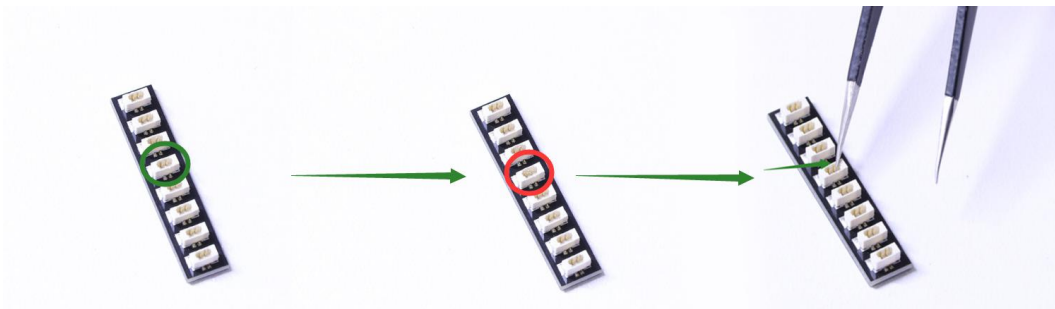
Insert the connectors to the ports.

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

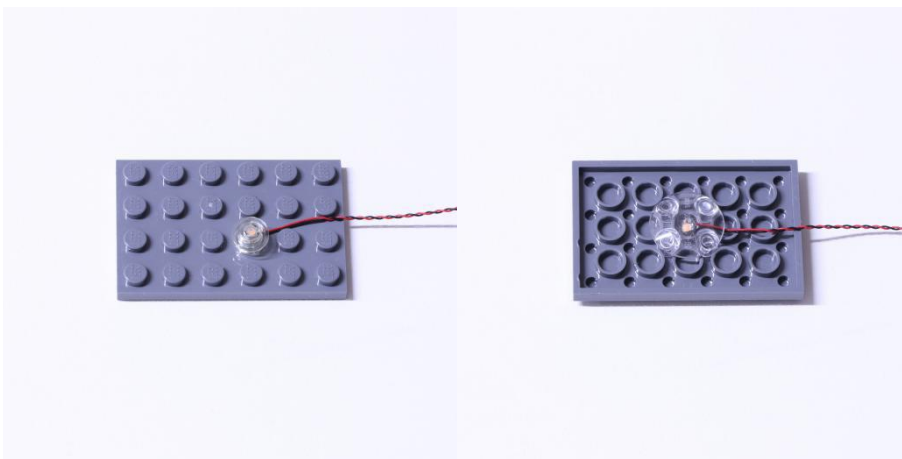
which the wires can be seen should be faced to the “=” sign and if you feel hard to insert, please stop, and don’t force it, for that may result in bent pins inside the port or overheating of the expansion board.



At this point, use the tweezers to straighten the bent pins.

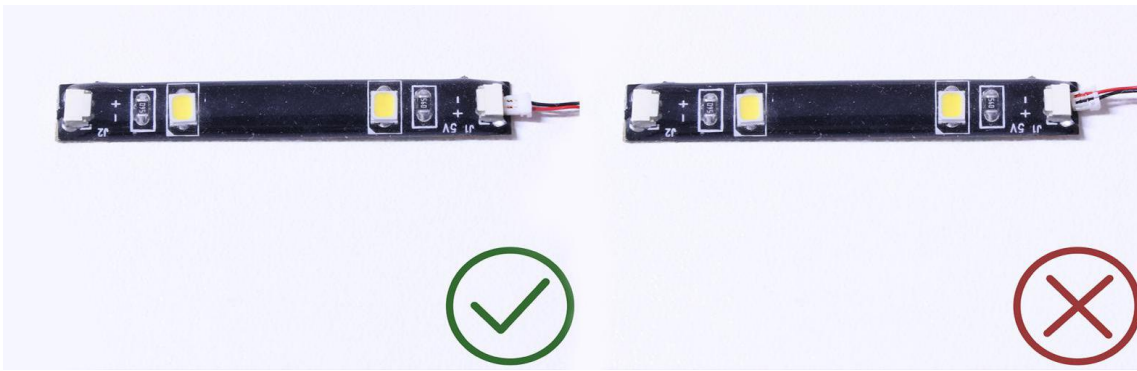


When installing dot lights, make sure they are correctly placed (Yellow LED package is exposed). You can put them either on the top of the studs or between studs.

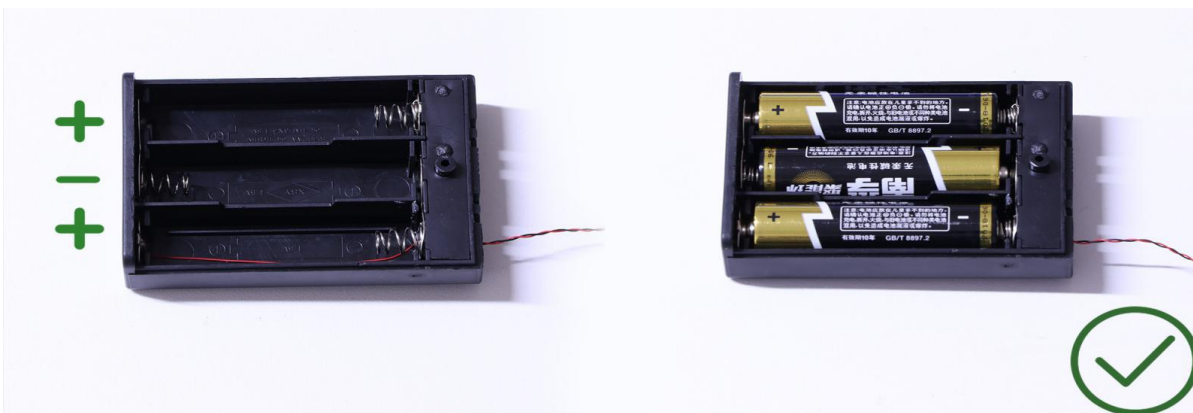


Connecting cable connectors to Strip Lights

Take extra care when inserting connectors to ports on the Strip Lights. Connectors can be inserted only one way. With the Strip Light facing up, ensure the side of the connector with the wires exposed is facing down. If a plug won’t fit easily into a port connector, don’t force it. Doing so will damage the plug and the connector.



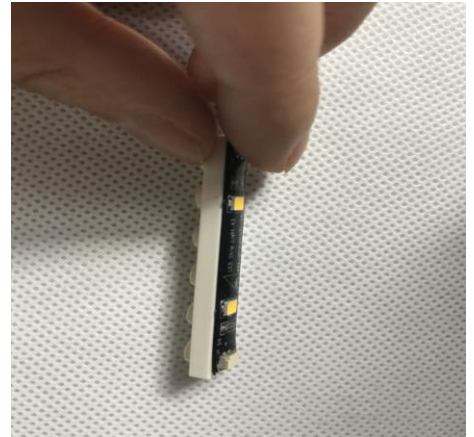
Finally, please pay attention to the positive and negative terminals of the battery when installing the battery case.



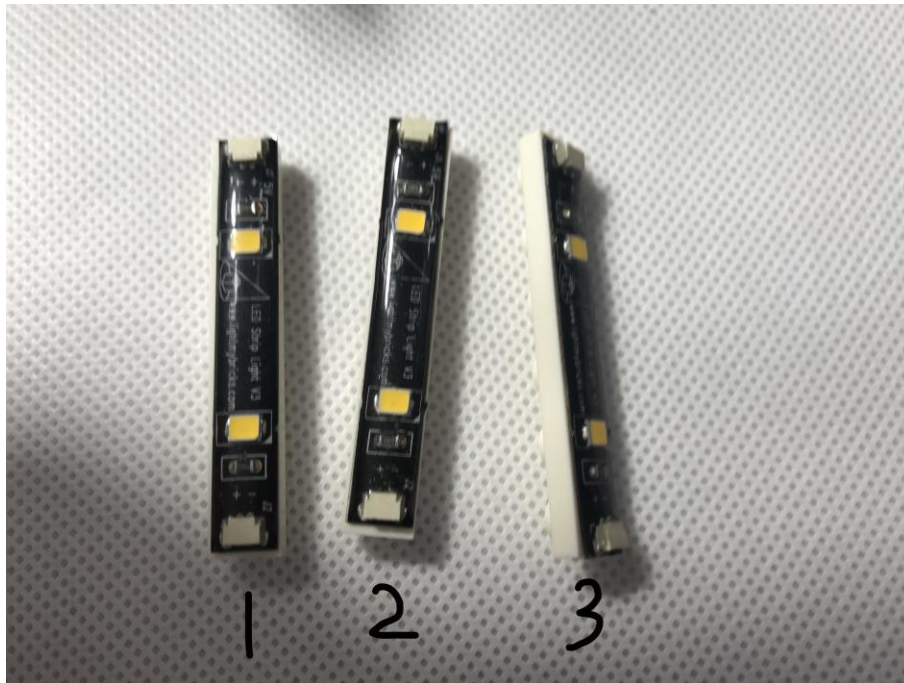
OK, Let's Begin!

Instructions for installing this kit

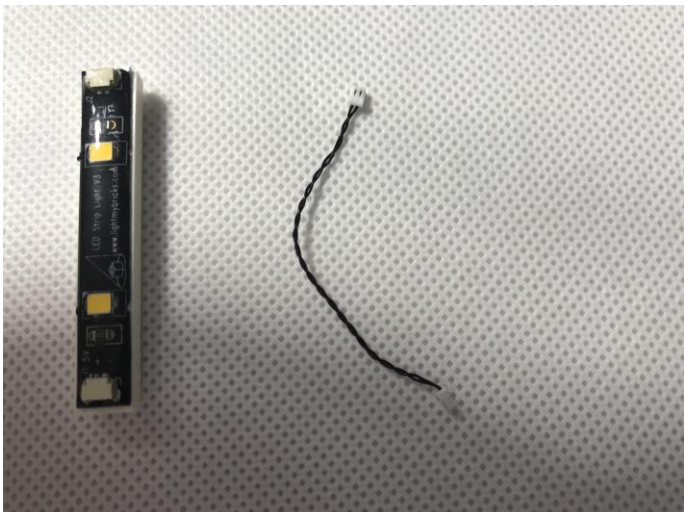
1) take a warm white strip and a white 1x6 base plate, stick the strip at the back of the plate



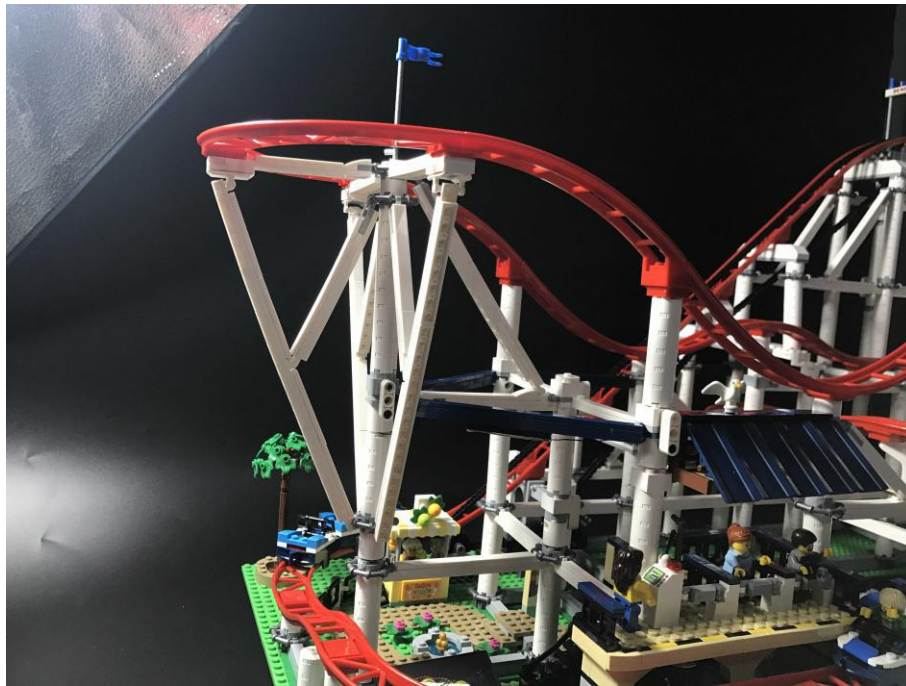
2) Repeat step 1, stick another 2 warm white strips to the back of 2 white 1x6 base plates, and we'll identify them as strip#1, strip#2, strip#3



3) Take a 5cm connecting cable, connect it to one port of strip#1



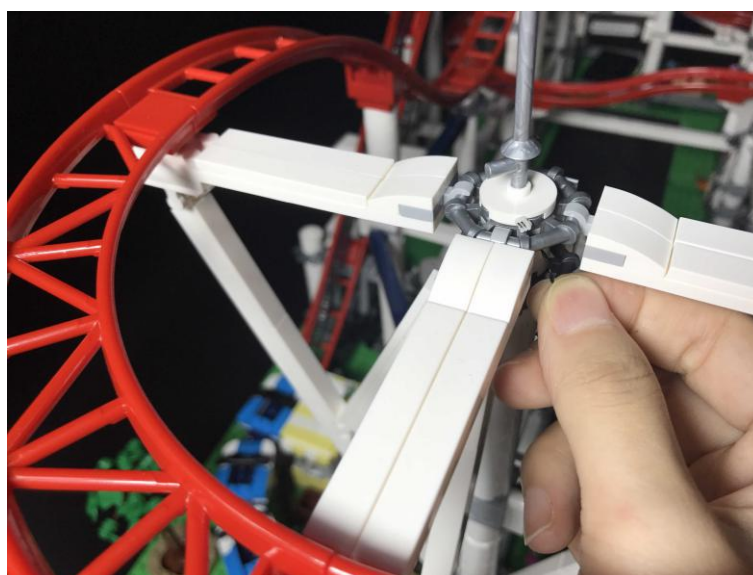
4) We'll start from the left section of the roller coaster



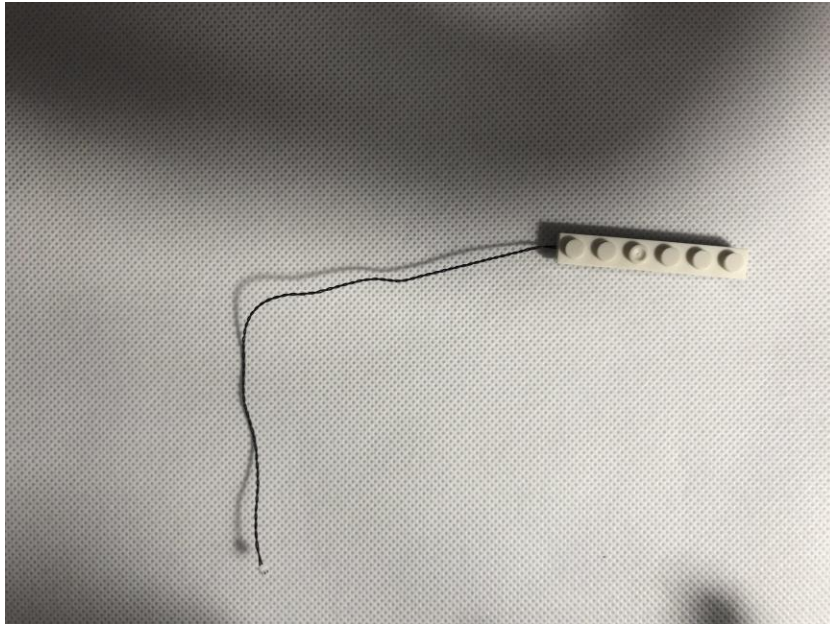
5) Place the strip#1 with cable under the beam



6) Thread the other end of the cable through the hole



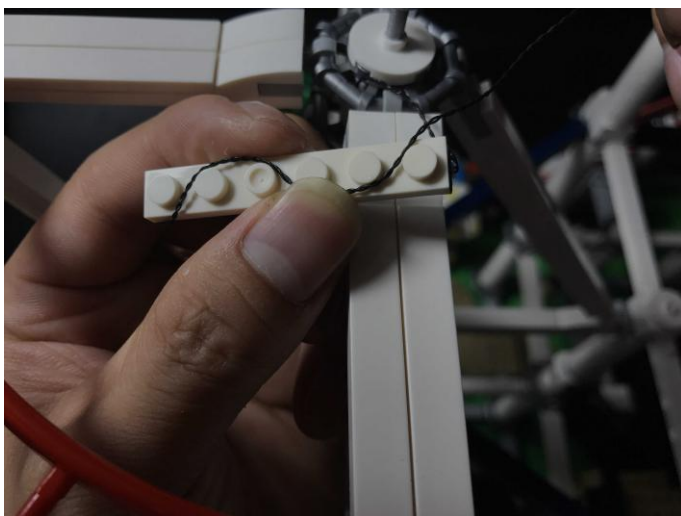
7) Similarly, connect a 15cm cable to one port on strip#2



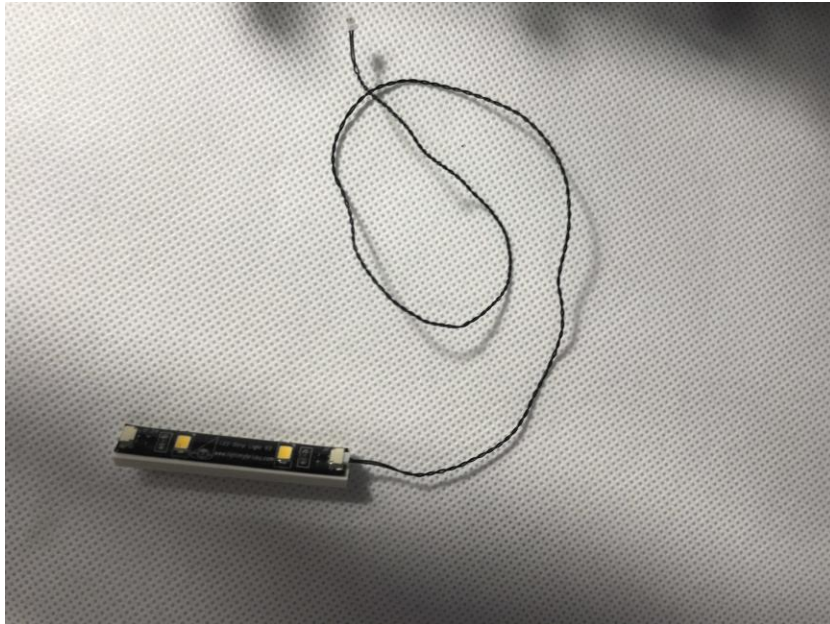
8) Insert the other end of the cable from strip#1 to the port on strip#2



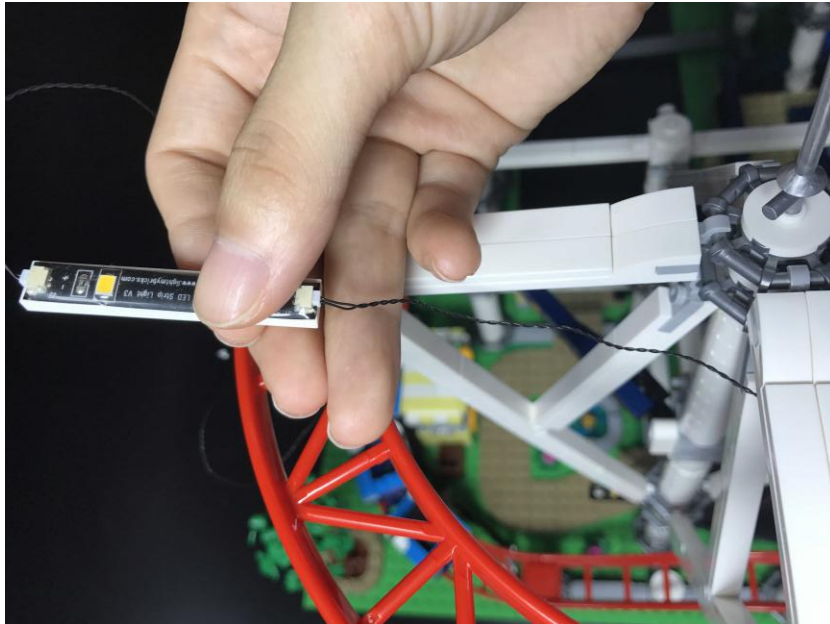
9) Place the 5cm cable in between the studs on the plate. Note: you should leave the connector side facing the outside



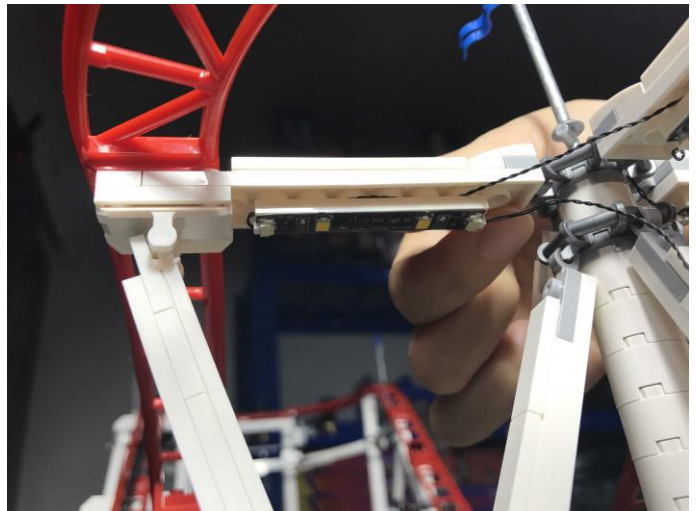
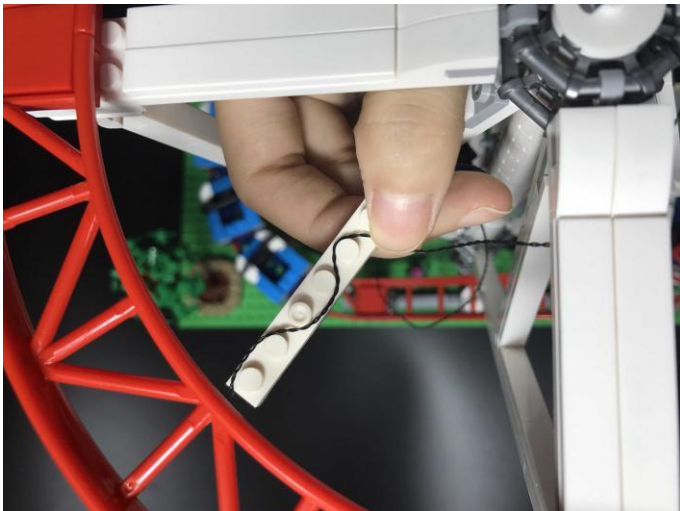
10) Then, connect a 30cm connecting cable to strip#3



11) Insert the other end of the cable from strip#2 to the strip#3



12) Place the 15cm cable in between the studs, as per below. Note: ensuring the connector side facing outside

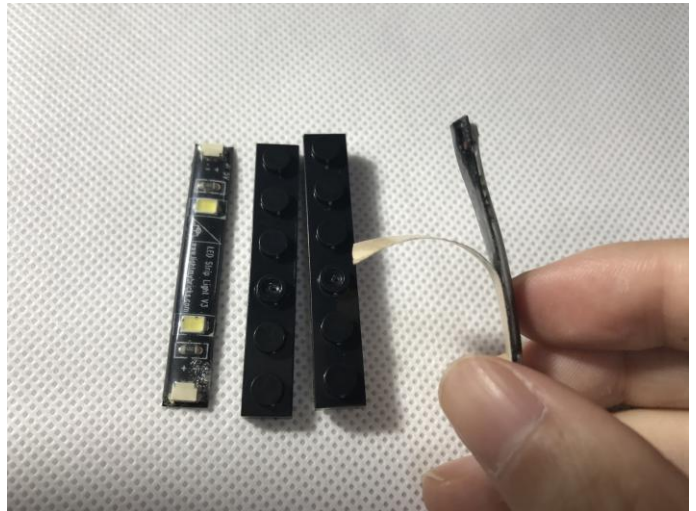


Now, we finished lights for this section

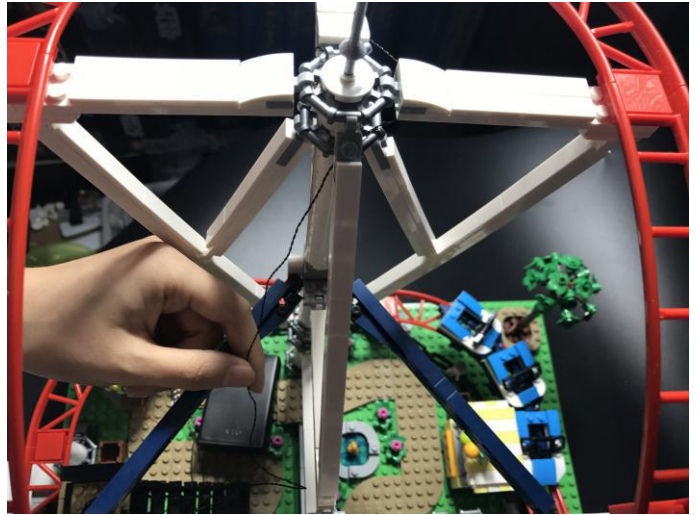


We will move onto the installing for other lights

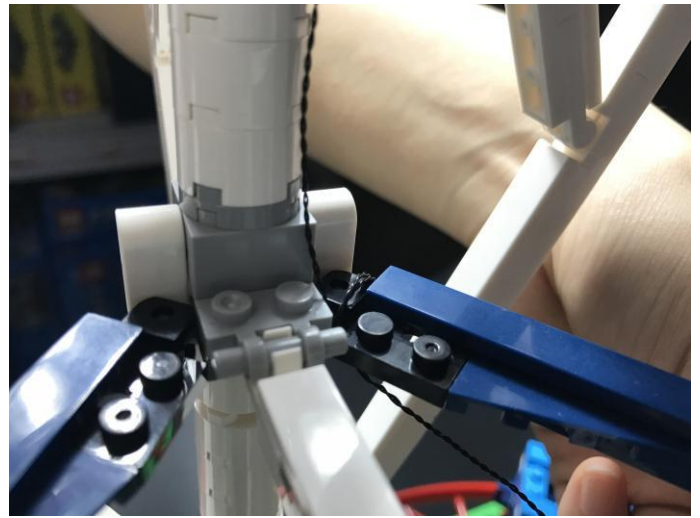
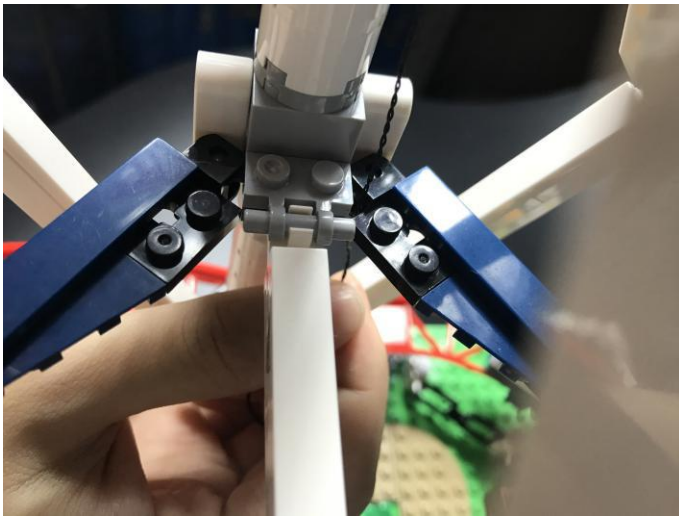
13) Take 2 warm white strips, 2 black 1x6 base plates, stick the strips at the back of the base plates. We'll identify them as strip#4 and strip#5



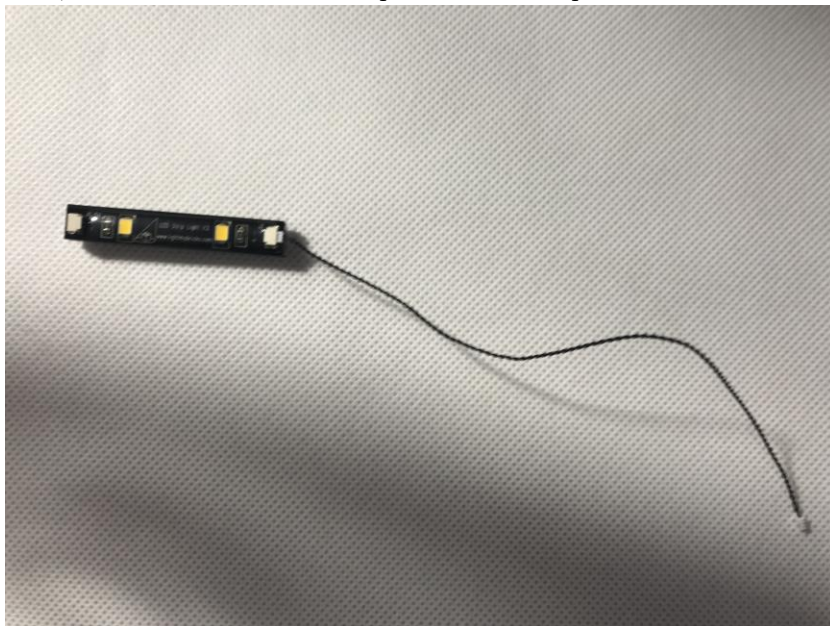
14) Thread the 30cm cable we installed before down through the hole



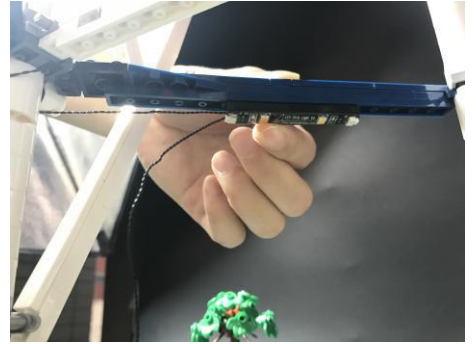
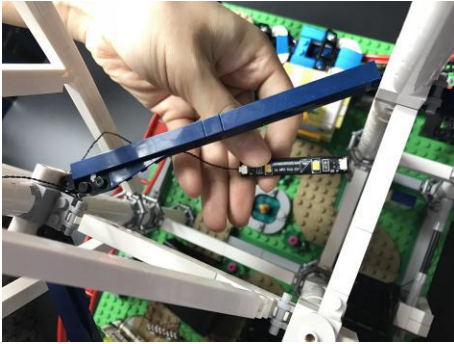
15) Pull the cable down and through the hole inside the blue piece, then, wind it around the blue piece twice



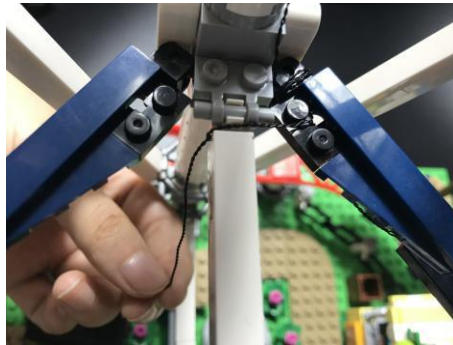
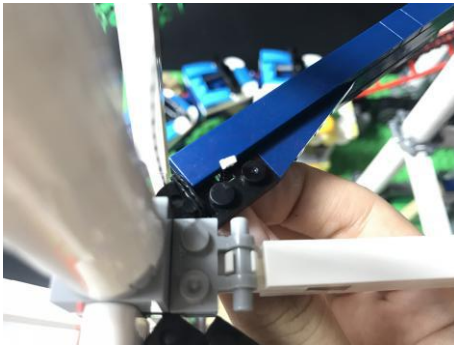
16) Take a 15cm cable, connect it to one port of strip#4



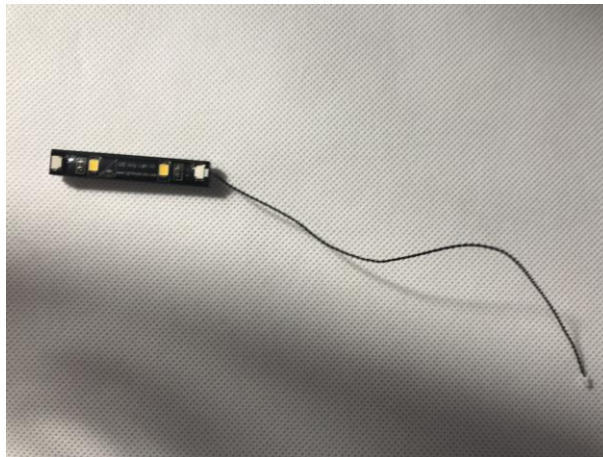
17) Insert the 30cm cable from the blue piece to the other port of strip#4, ensuring the cable is placed in between the studs, connect the strip on the blue piece



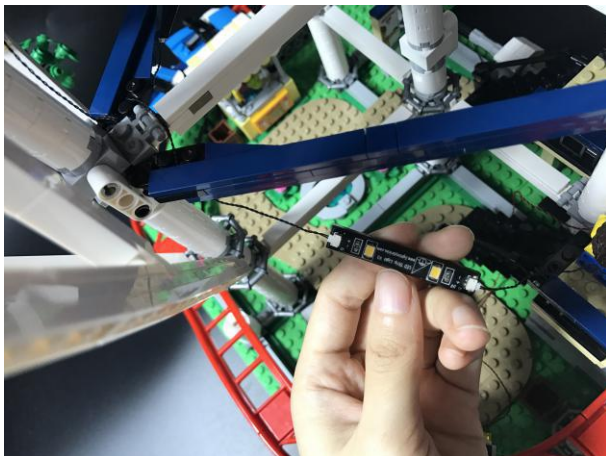
18) Thread the connector end of the 15cm cable through the hole on the blue piece, round it one time on the white pole then, downward through a hole of another blue piece



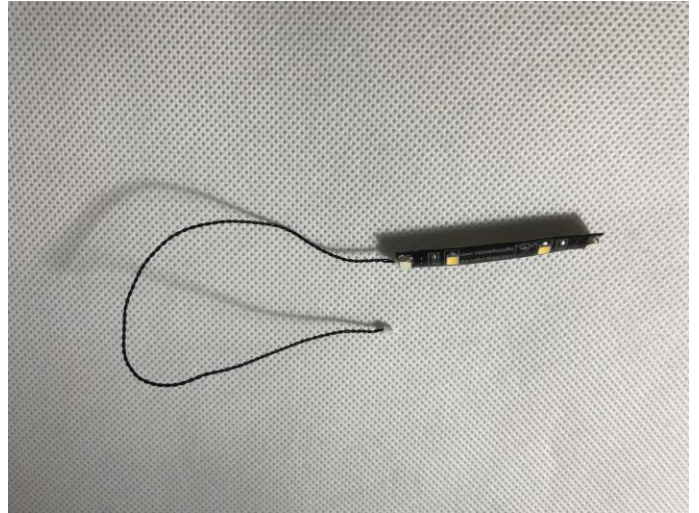
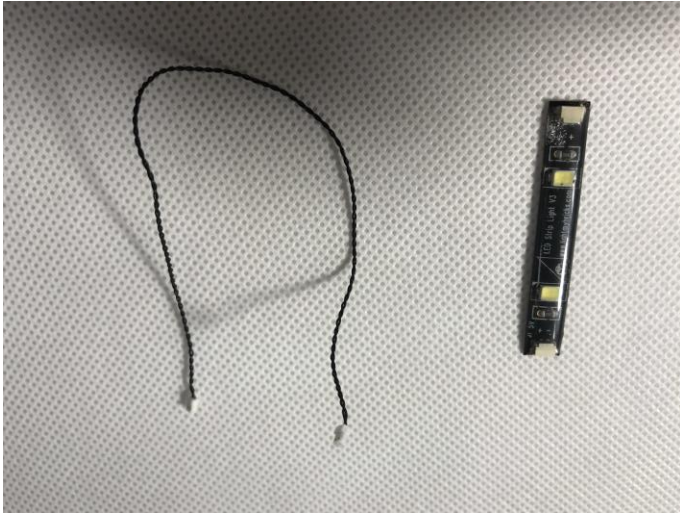
19) Take another 15cm cable, connect it one port of strip#5



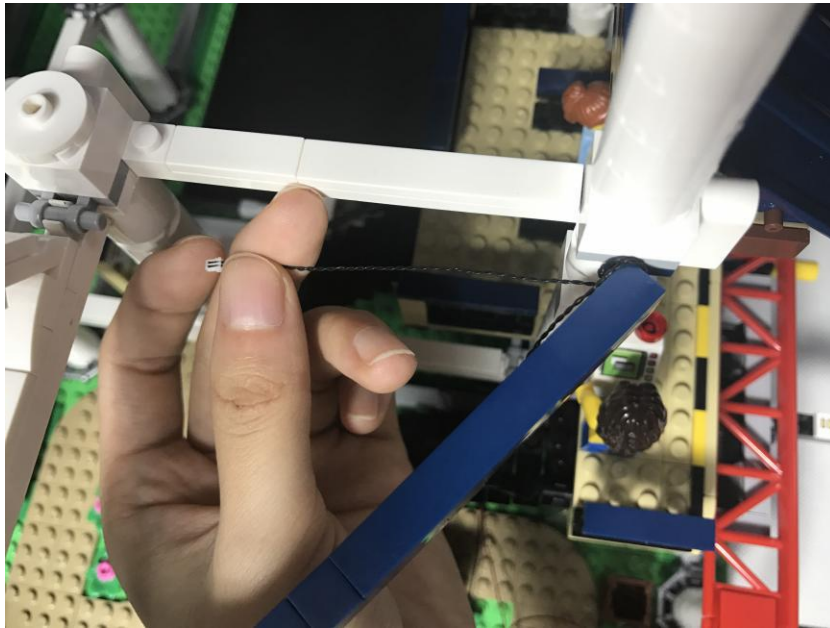
20) Connect the other end of the cable from strip#4 to one port of strip#5, and place strip#5 under the blue piece



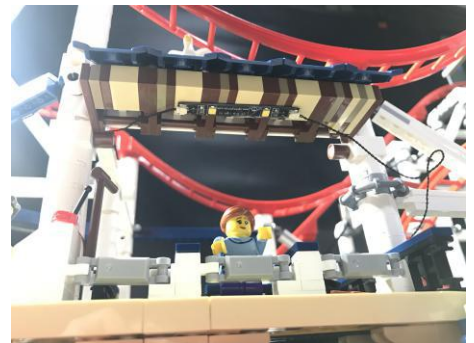
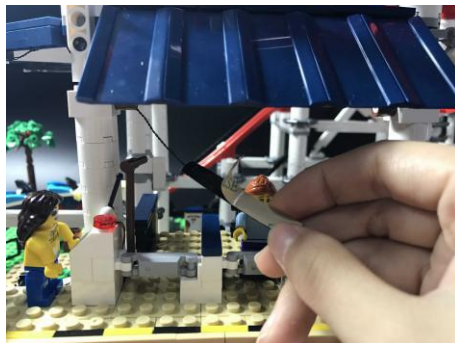
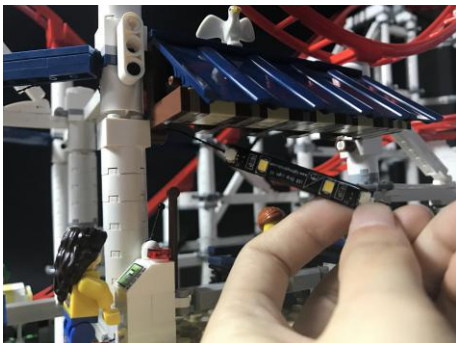
21) Take a warm white strip and a 15cm cable, connect the cable to one port of the strip



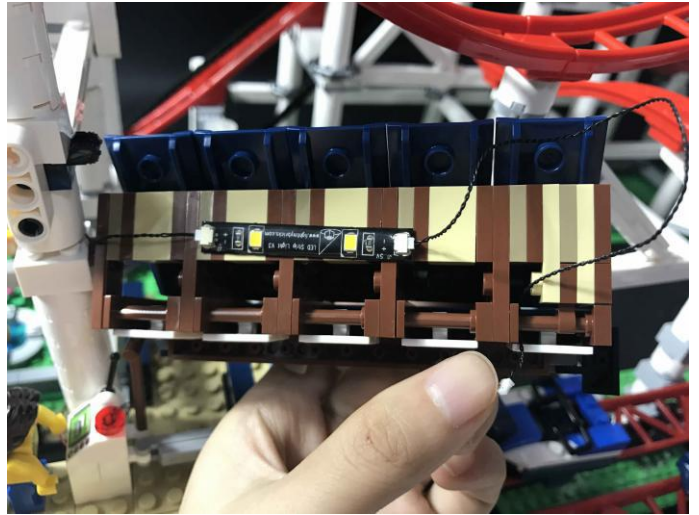
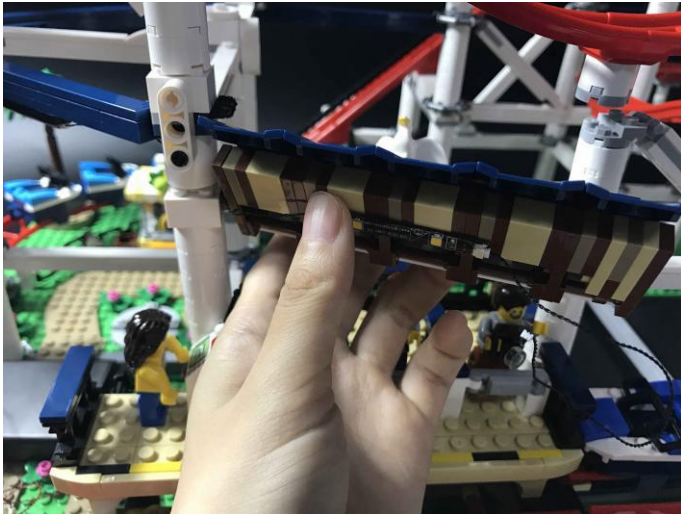
22) Wind the cable from strip#5 around the space between the pole and the blue piece



23) Pull the cable (from step 21) out from the back of the house, stick it at the roof using adhesive tapes



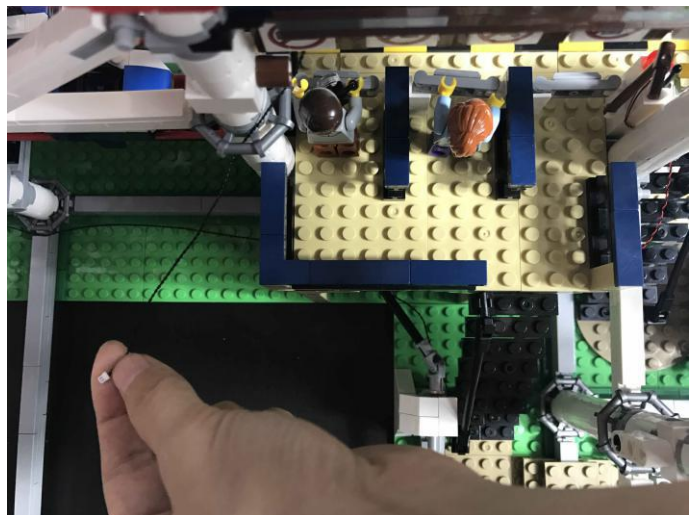
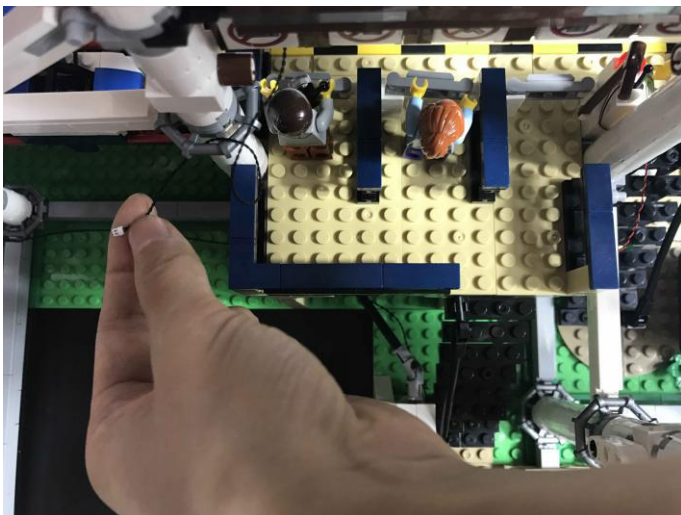
24) Remove the roof, pull the cable out, as per below



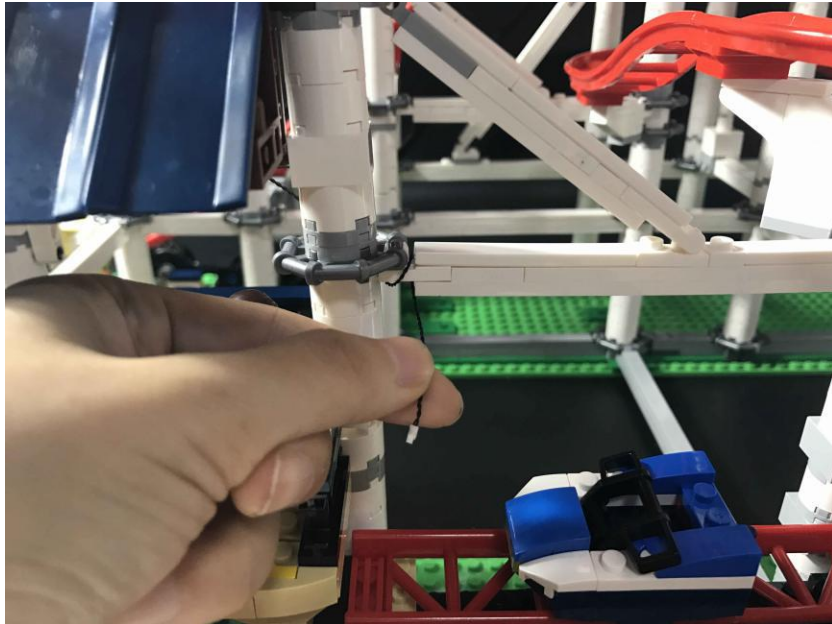
25) After the cable is pulled out, reconnect the roof



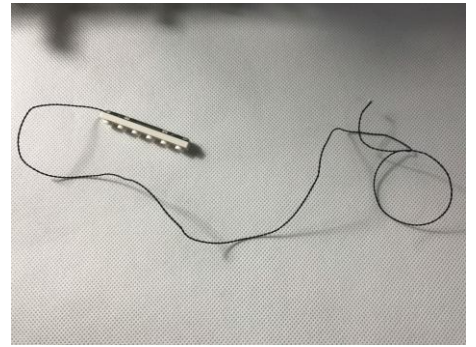
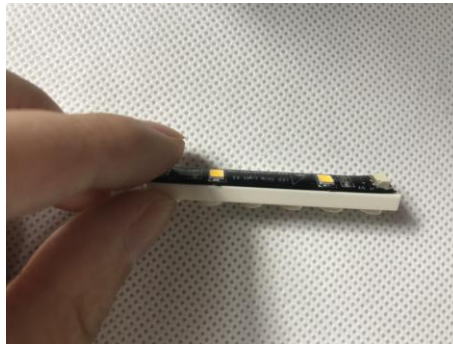
26) Thread the connector through the hole on the gray polygon piece



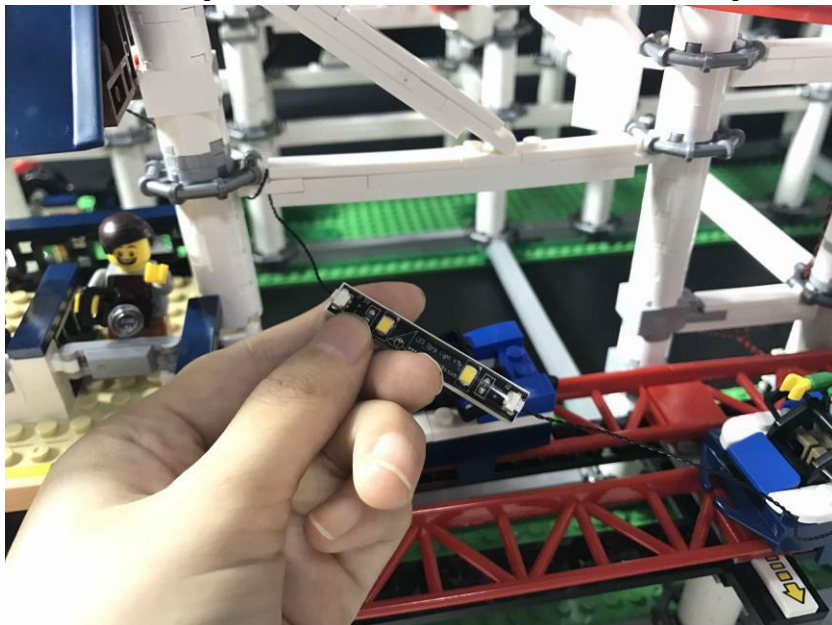
27) Wind it around the gap between the white beam and the gray piece



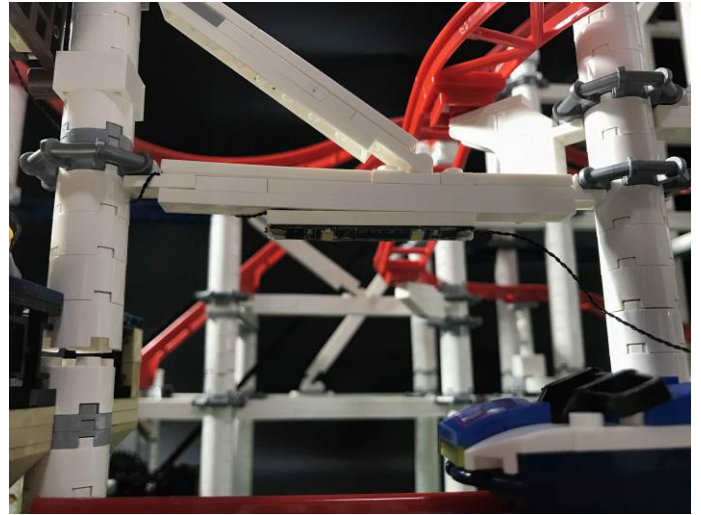
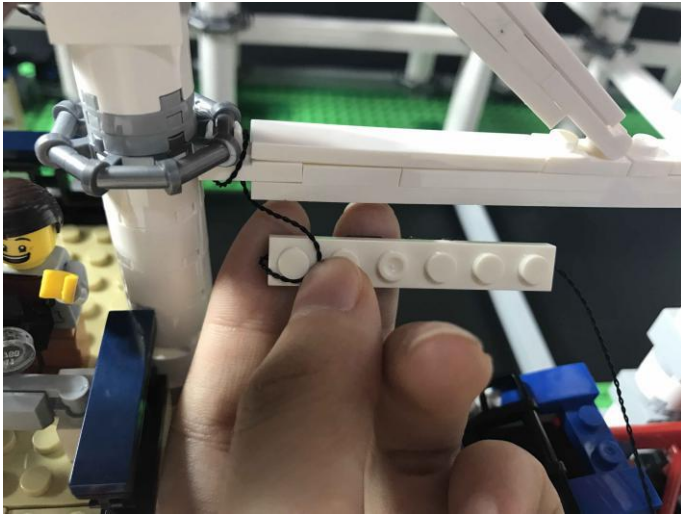
28) Take a warm white strip, a 50cm connecting cable and a white 1x6 base plate, stick the strip at the back of the base plate, and connect one end of the cable to it



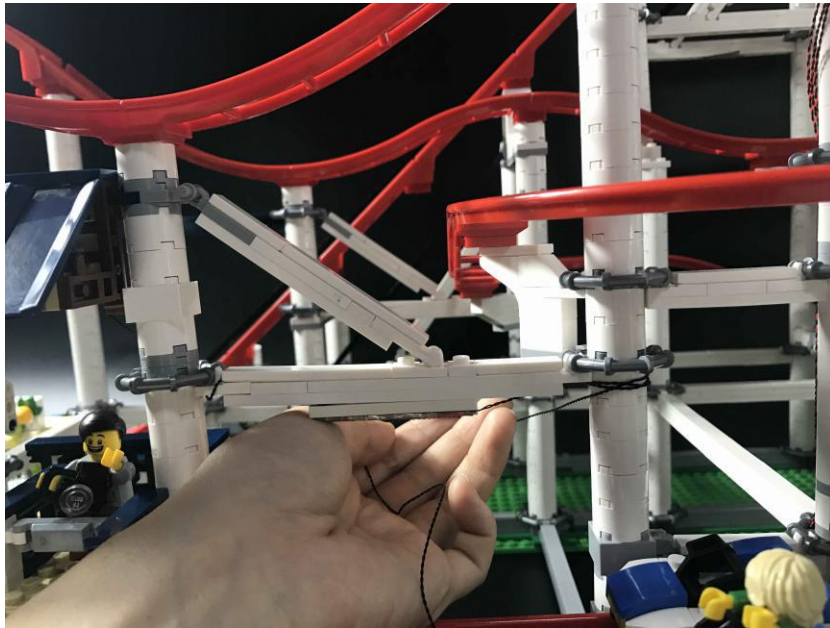
29) Connect the cable (from step 27) to the other end of the strip



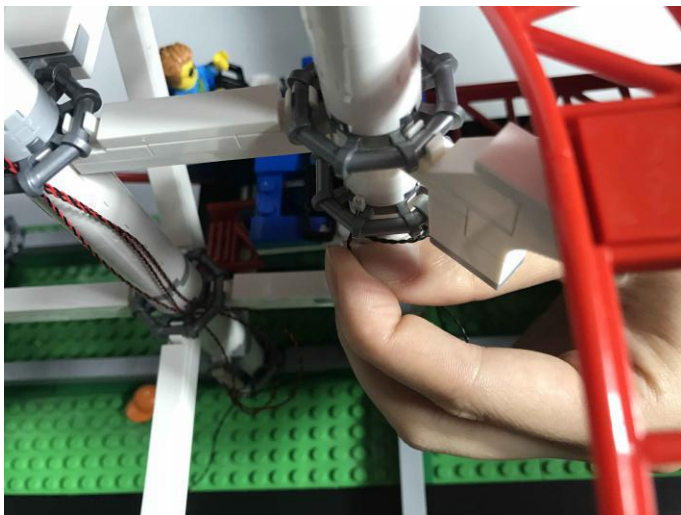
30) Wind the cable as per below, and stick the strip under the white beam



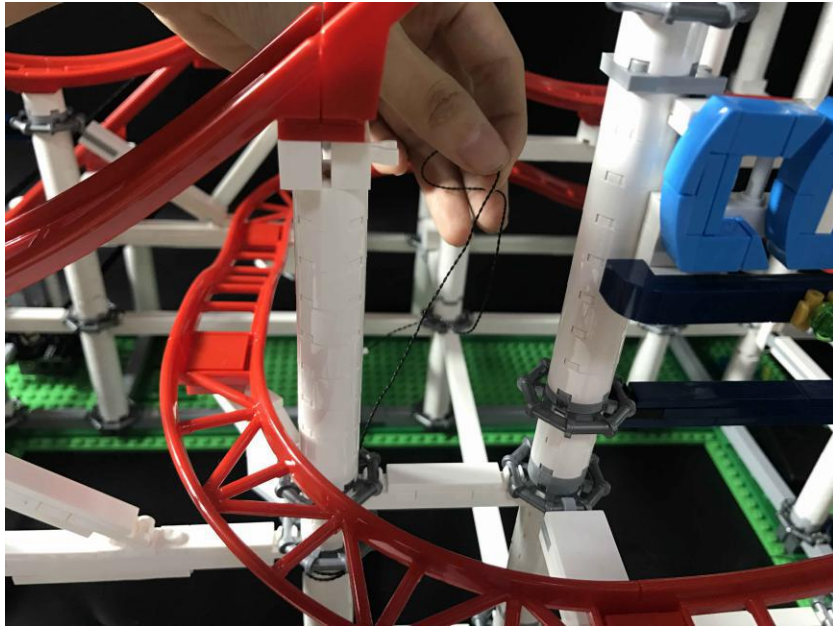
31) Wind the 50cm cable 2 times around the pole at the right side



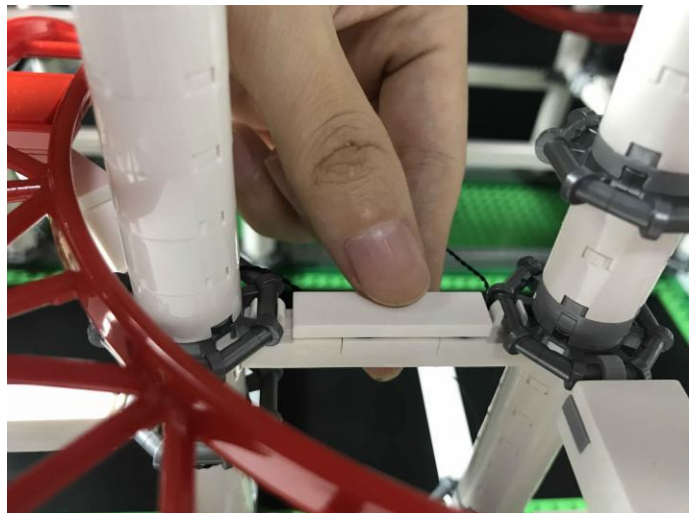
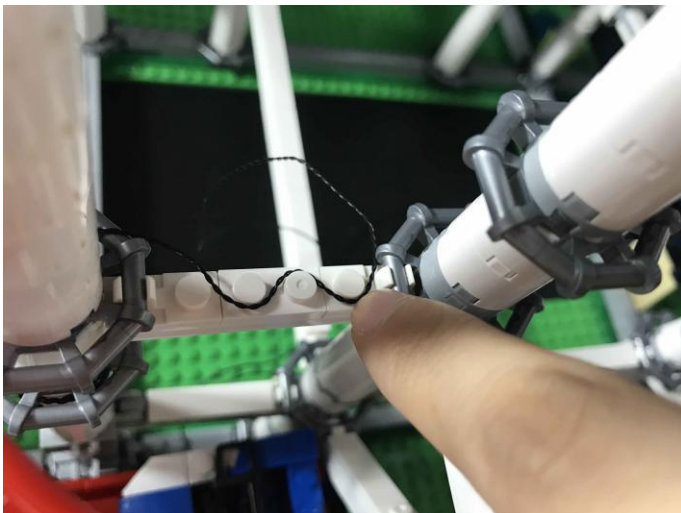
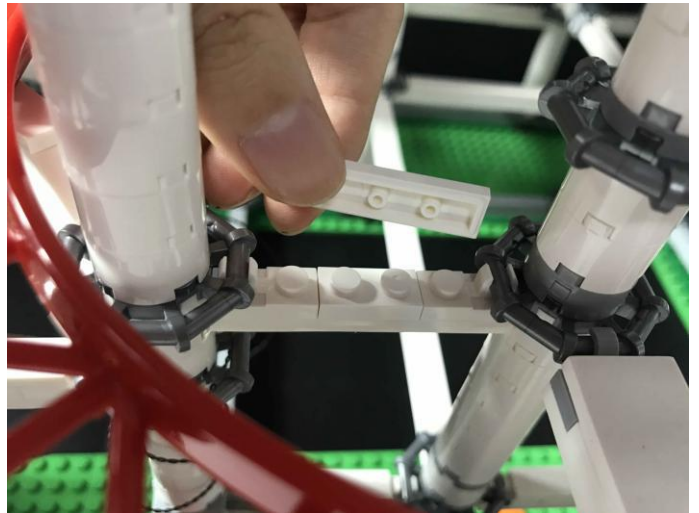
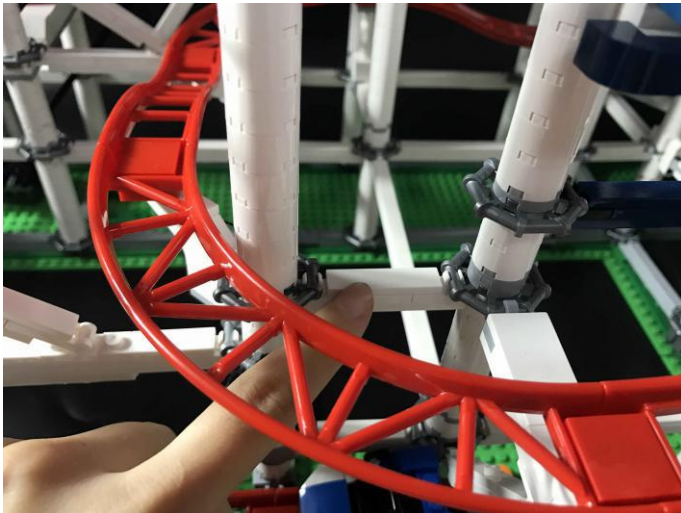
32) Thread it through hole of the gray piece



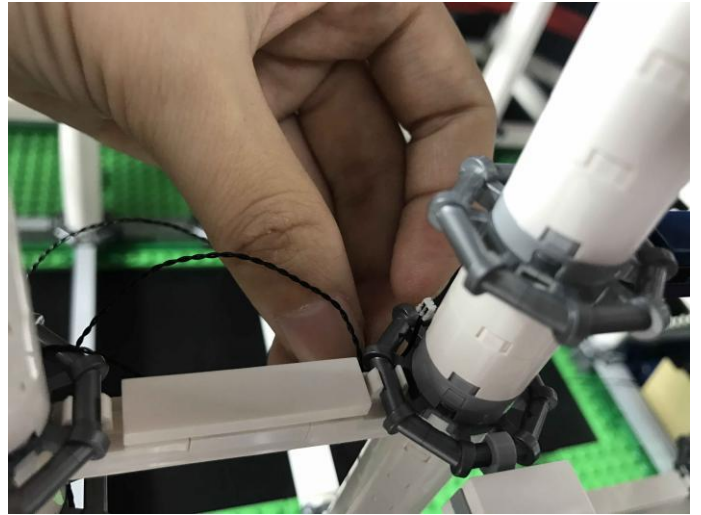
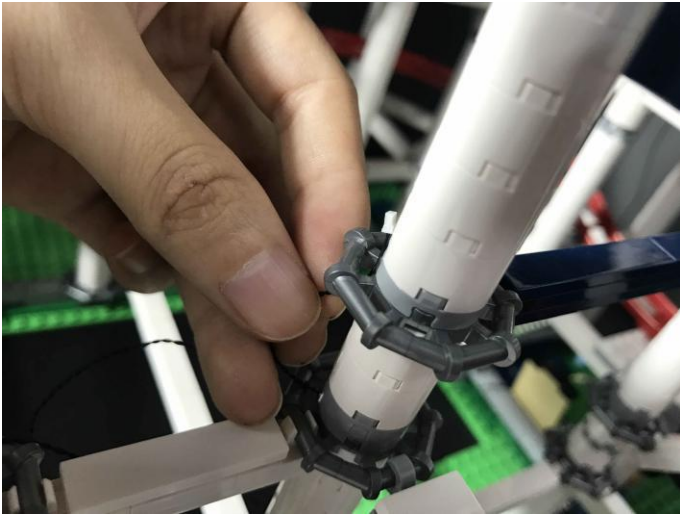
33) Pull the cable out from the upper space



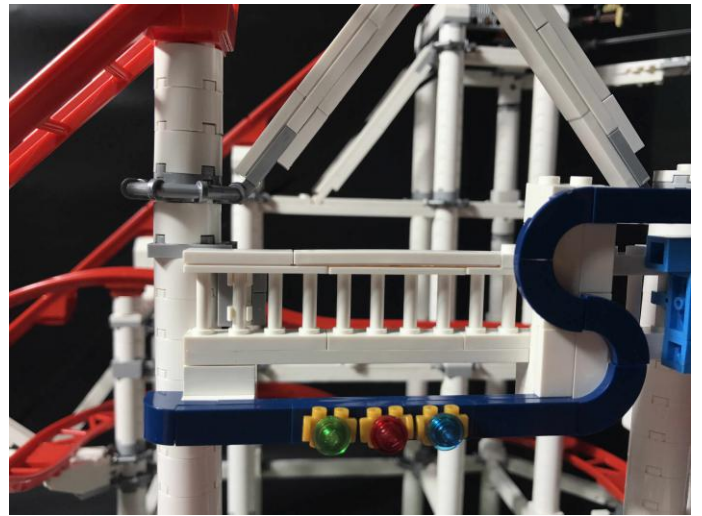
34) Remove the white brick, place the 50cm cable in between studs, reconnect the brick



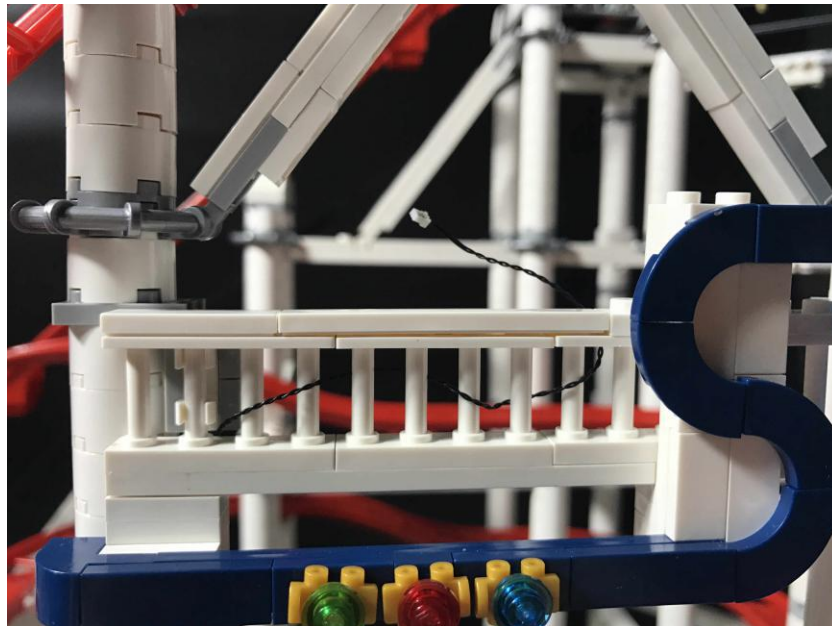
35) Thread the connector of the cable through the hole of the gray piece again, pull it upward



36) remove the “COA” letters



37) Wind the cable properly, as per below



38) Take 2 warm white strips, a 5cm cable, and the following plates

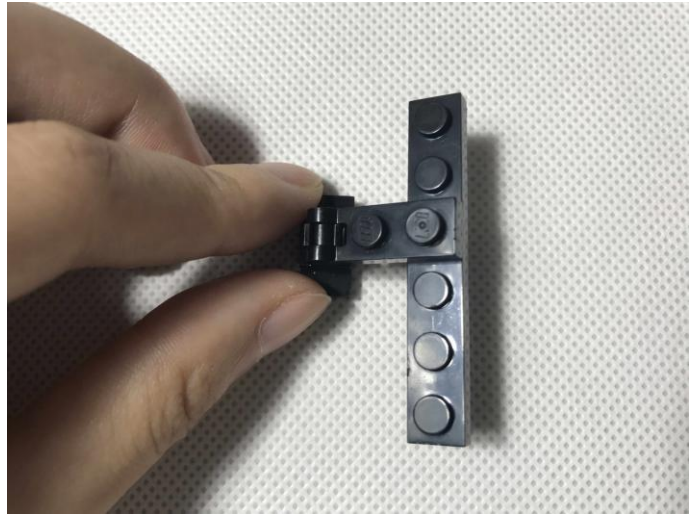
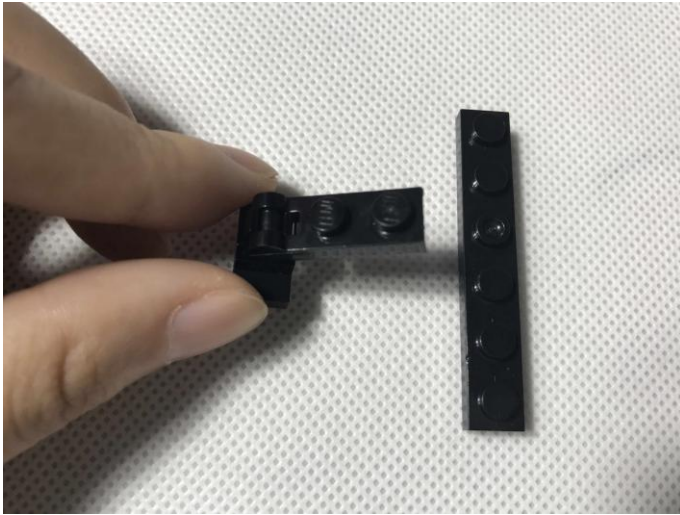


39) Stick the strip on the 1x6 base plate



40) Assemble the following 3 pieces together, we'll use it as an ad board

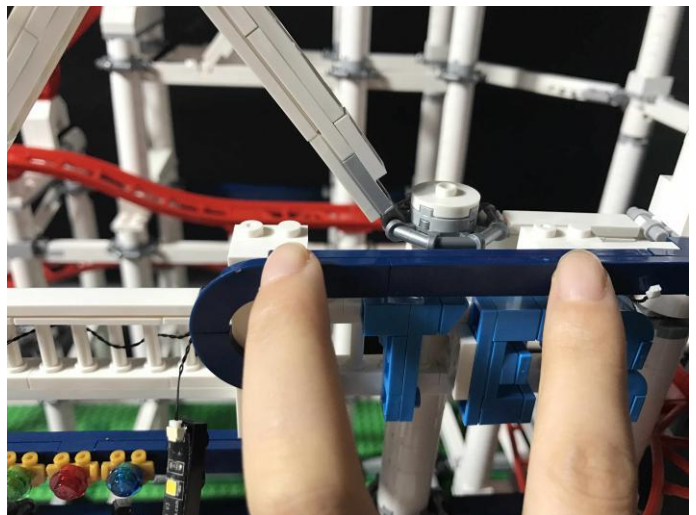
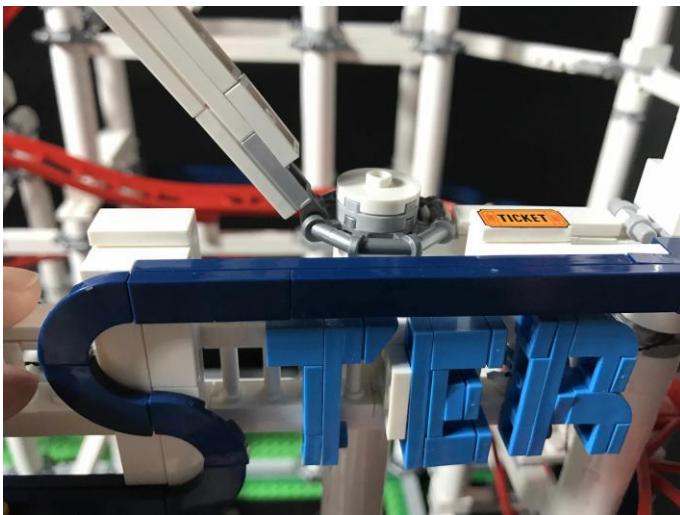




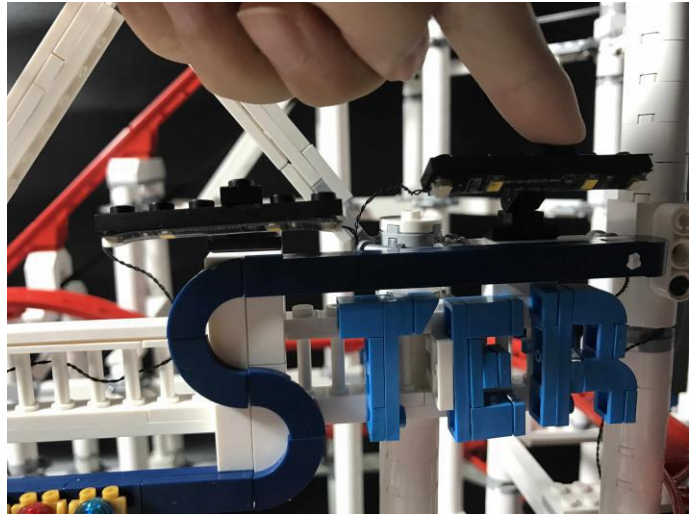
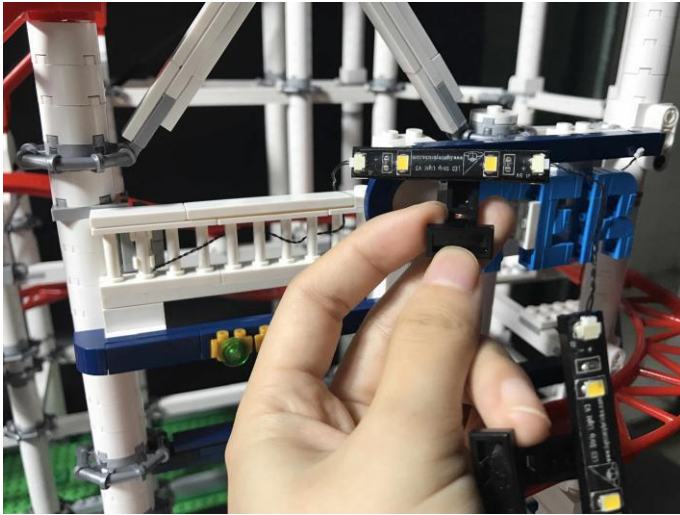
41) Repeat the above steps to assemble another ad board, connect 2 strips with a 5cm cable



42) Remove the following 2 white plates



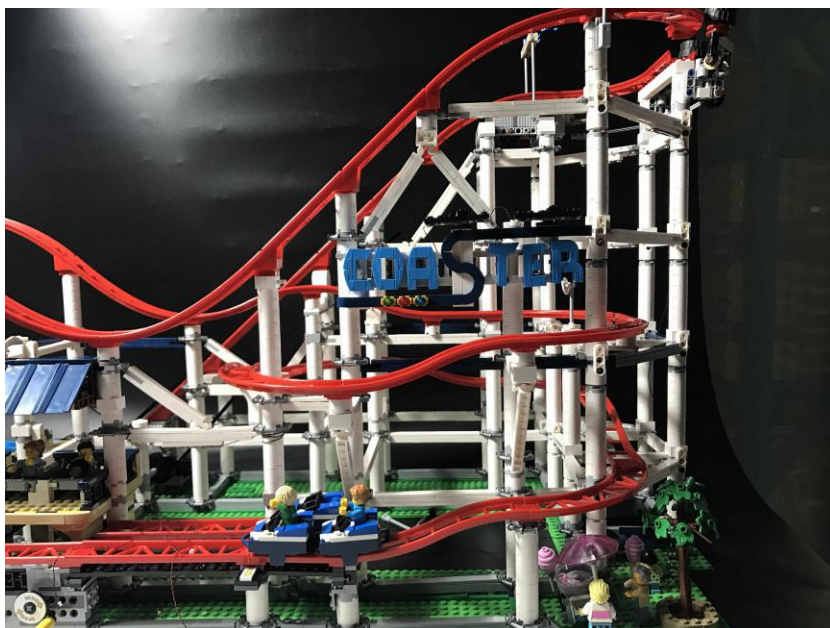
43) Connect the connector (from step 37) to one of the strip, after that, position the strip as per below, adjust the angle to make sure it can light the ad board



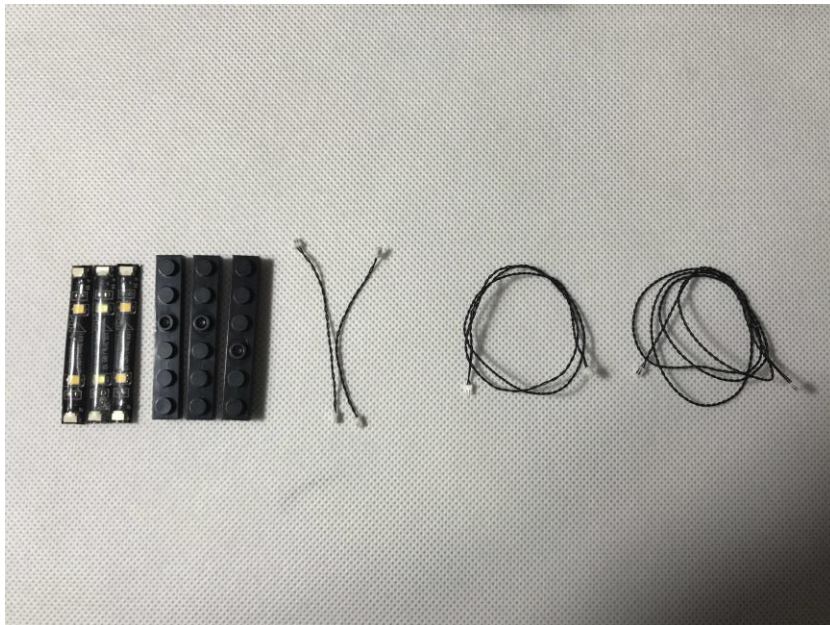
44) Reconnect the “COA”, we already finished the lights in the center of the roller coaster



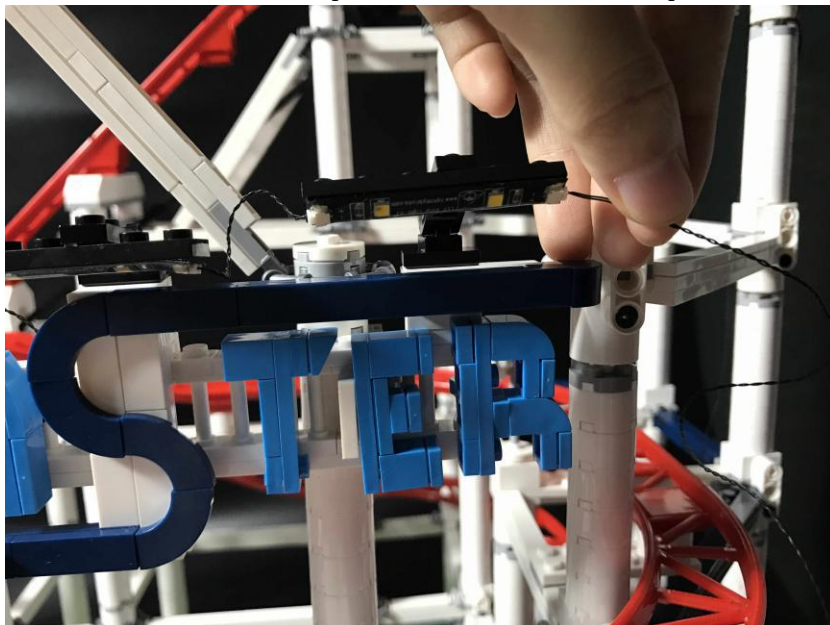
Continue to install the right section. We’ ll install 3 warm white strips separately on the blue beam and the white beam in the second and forth level



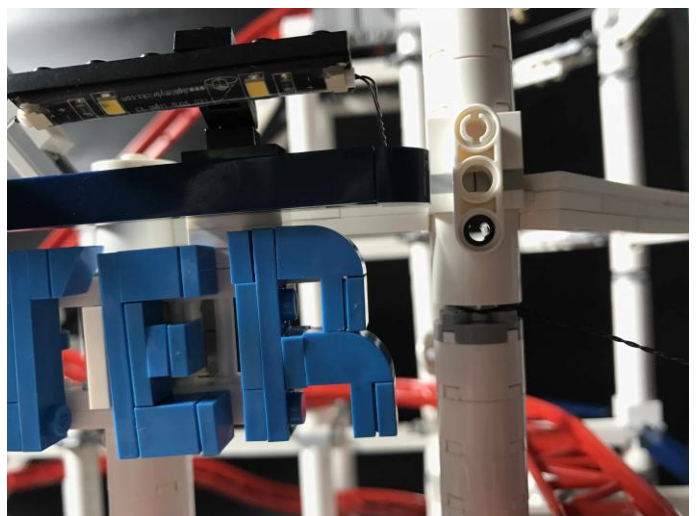
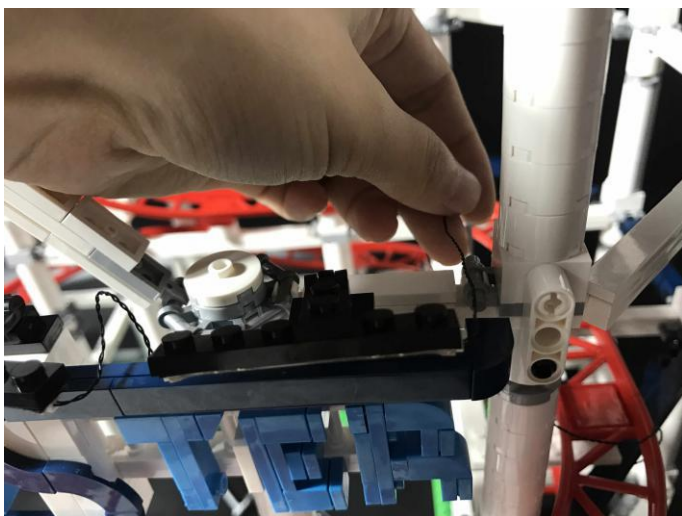
45) Take 3 warm white strips and 3 black 1x6 base plates, 2 connecting 5cm cables, a 30cm connecting cable, and a 50cm connecting cable



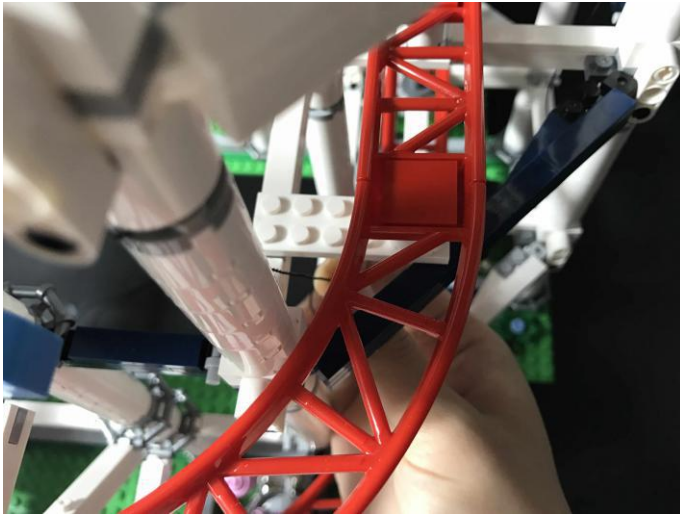
46) Connect the 30cm cable to the strip of the ad board as per below



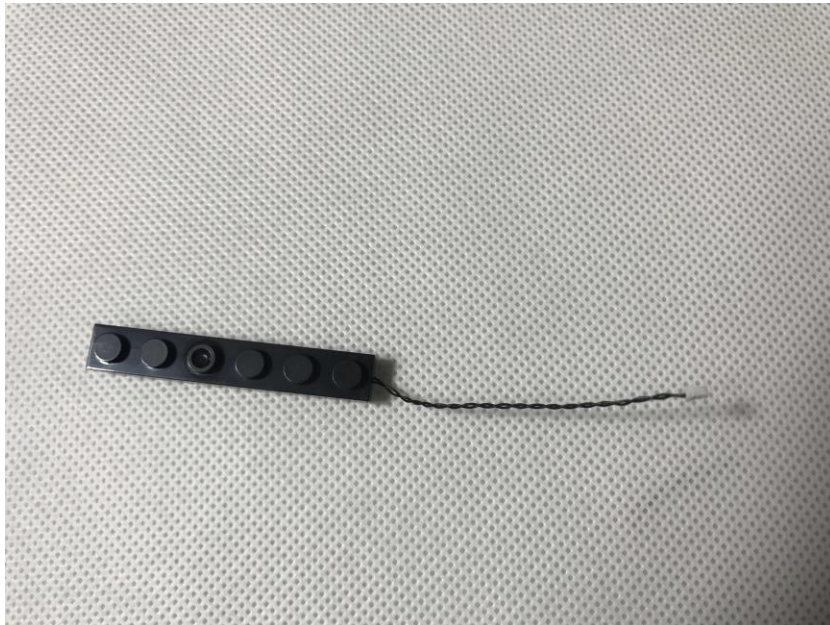
47) Thread the other end of the cable down and wind it around the gap of the gray piece for 2 times



48) Pull it out from the lower place, wind it around the pole for one time



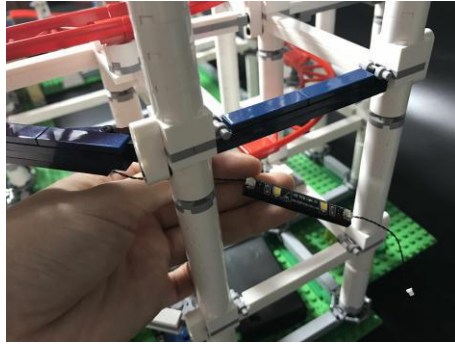
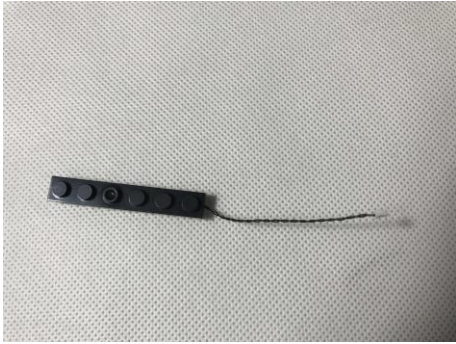
49) Stick a strip on the base plate, insert a 5cm cable to it



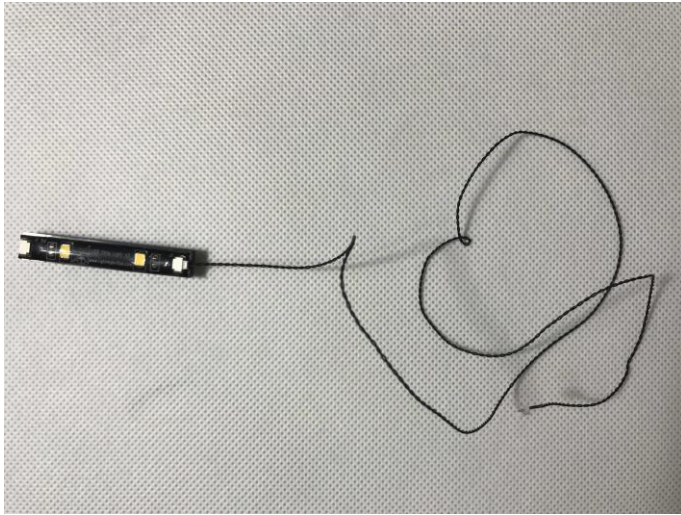
50) Connect the other end of the cable from the pole to the strip, place the strip on the blue beam



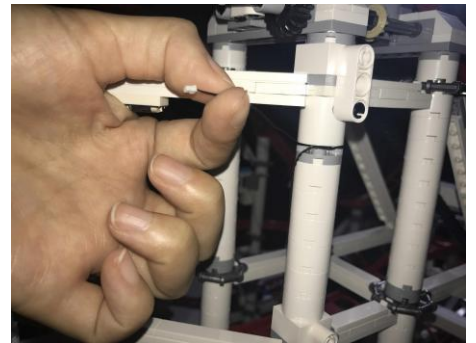
51) Stick another strip on the plate, also connect a 5cm cable to it as we did before



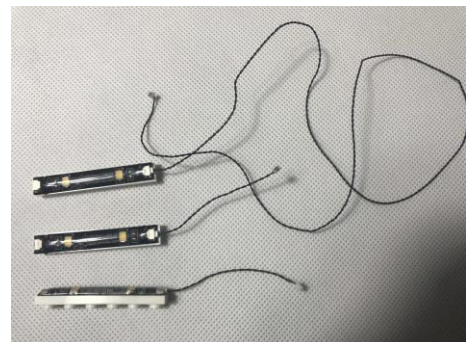
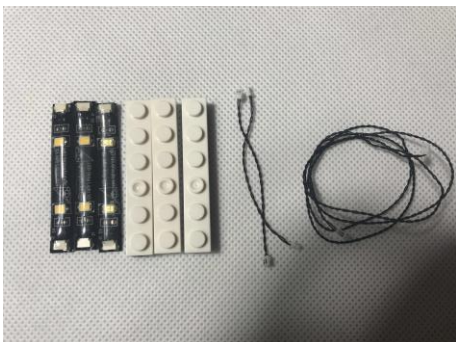
52) Connect the 50cm cable to the strip, then, connect the 5cm cable from the previous strip to the other port, stick it on the blue beam. The installation of strips on the second floor is finished.



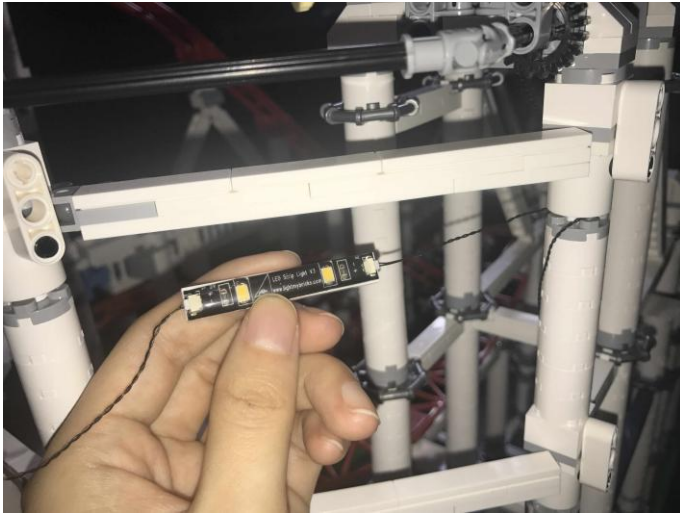
53) Wind the 50cm cable around the pole , pull it up, wind it around the gray gaps at the third and the forth level



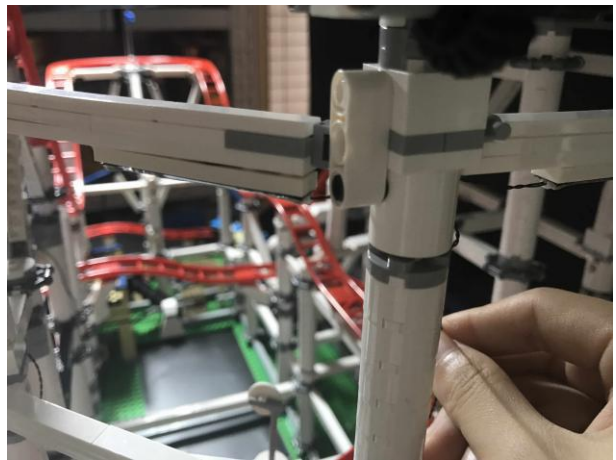
54)Take 3 warm white strips and 3 white 1x6 base plates, 2 connecting 5cm cables and a 50cm cable. Stick every strip on a plate, then, connect 3 cables to each of them



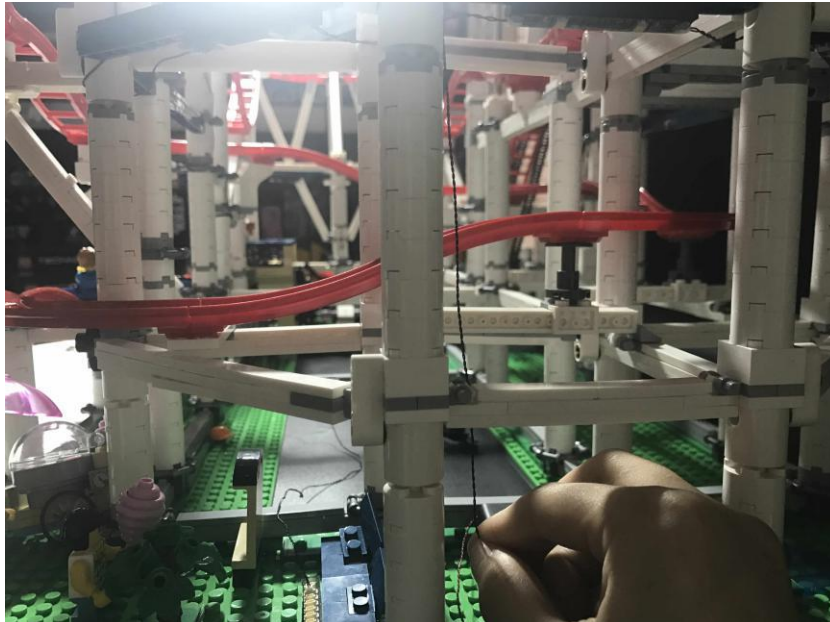
55) Stick the 2 strips with 5cm cables to the white beams on the forth floor



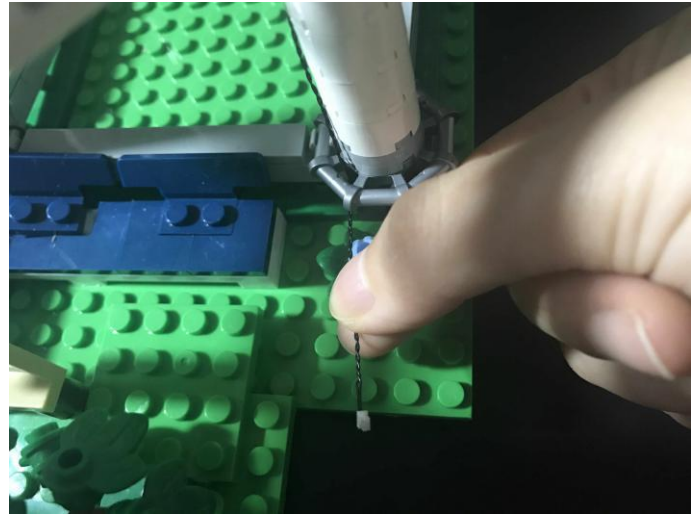
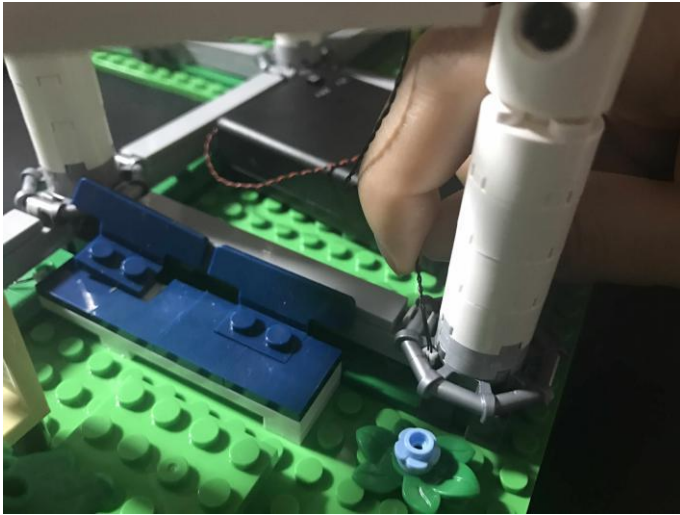
56) Connect the other end of the 5cm cable to the strip with a 50cm cable connected to it, place the 50cm cable between the studs. Stick the strip to the third white beam



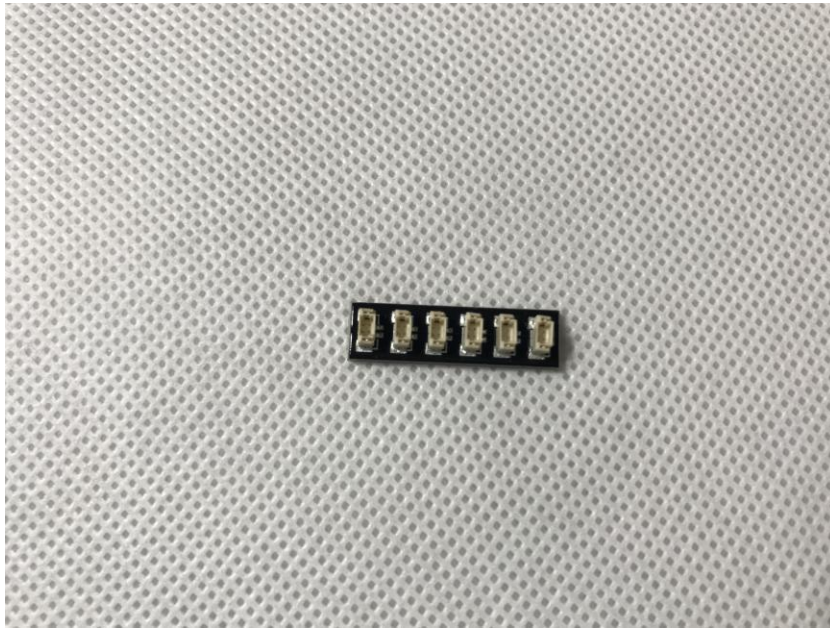
57) Wind the 50cm cable 2 times around the pole on the right side, pull the cable down



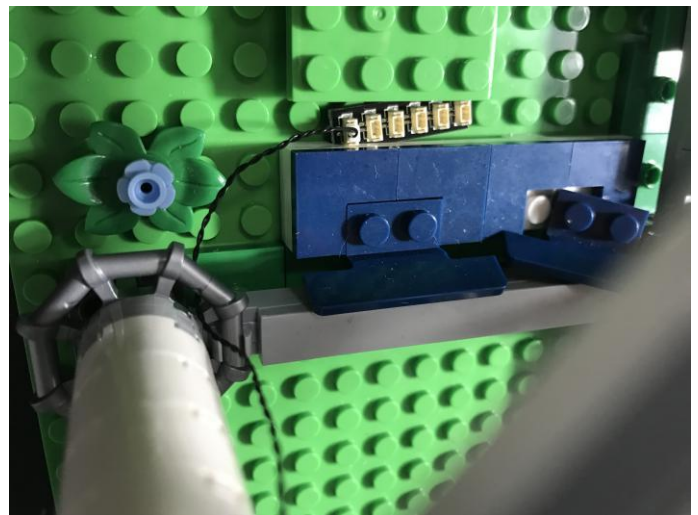
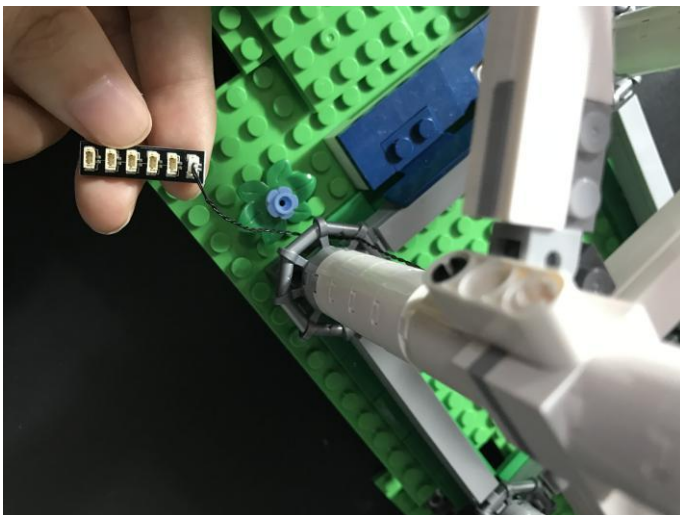
58) Thread the connector side through the hole of the gray piece



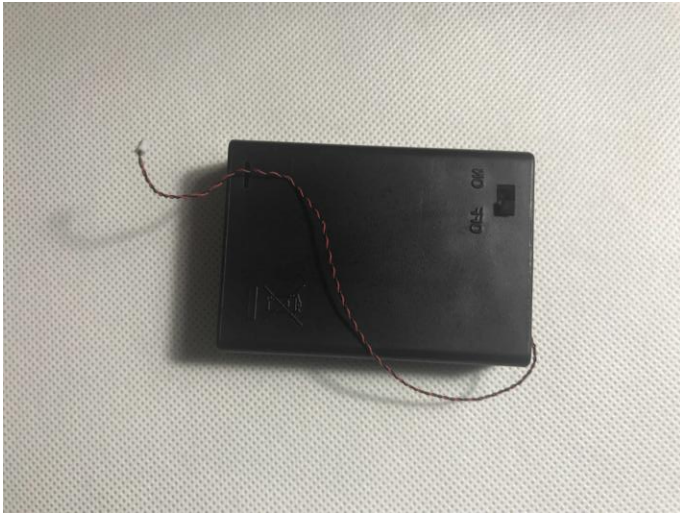
59) Take a 6-port expansion board



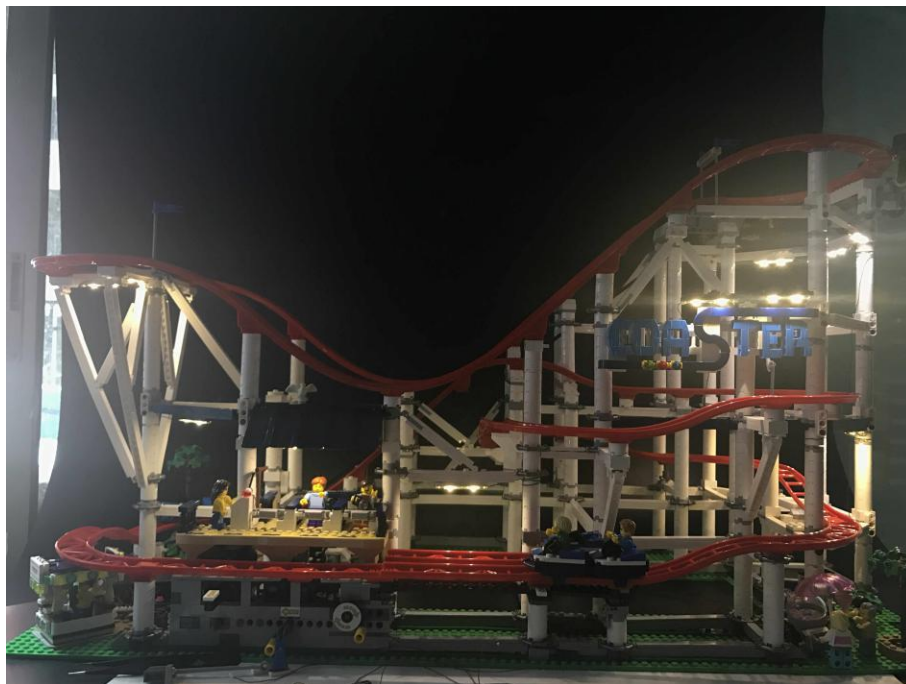
60) Insert the 50cm cable into it, place the expansion board on the base



61) Take a AA battery pack, inserted with 3 batteries, connect its cable to the expansion board, place it in the back



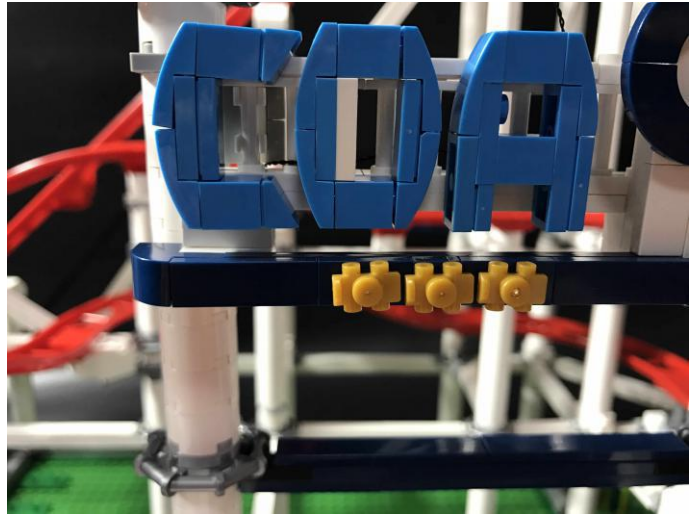
62) Now, we can turn on the battery pack to check the lights we have installed



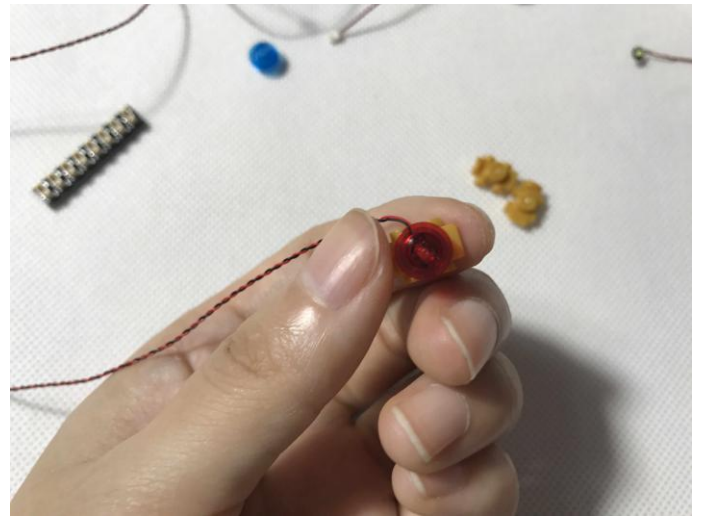
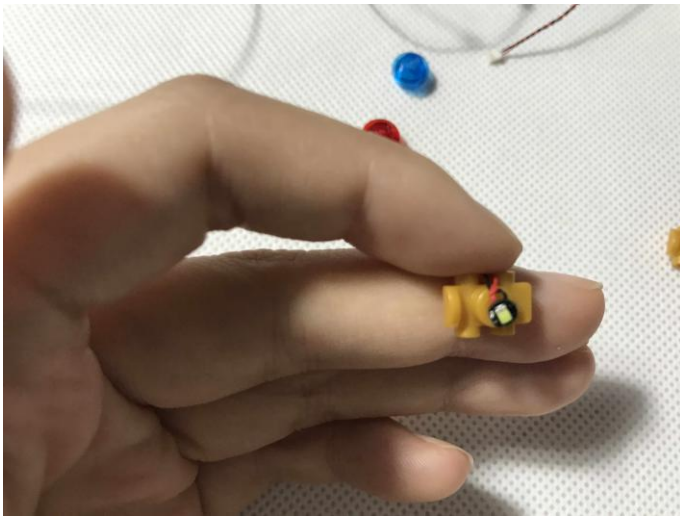
63) take 3 white dot lights, a 8-port expansion board, a 30cm cable, and the green、red、blue trans round plates.



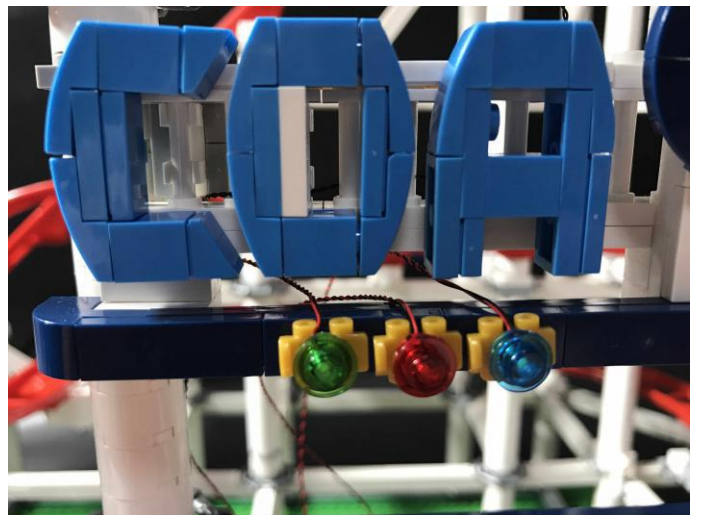
64) Remove the 3 yellow pieces from the ad board



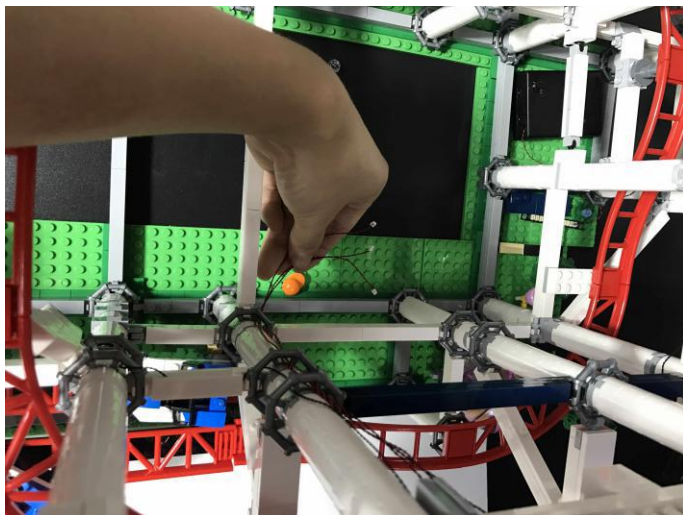
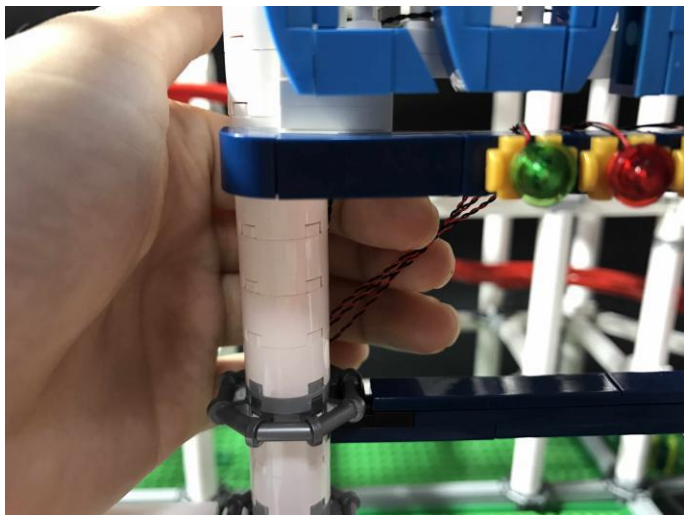
65) Place the dot light on the piece, with its LED component upward, connect the trans round plate over it to secure the light.



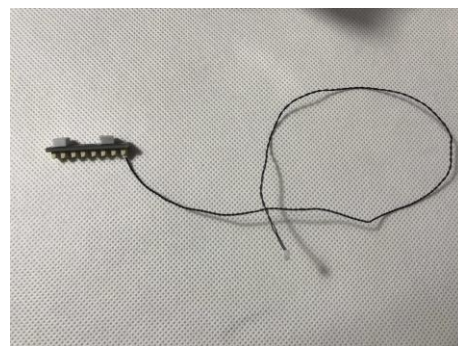
66) Repeat the above steps to install the other 2 dot lights, then, reconnect the pieces with lights back to the ad board, ensuring the cables are laying behind



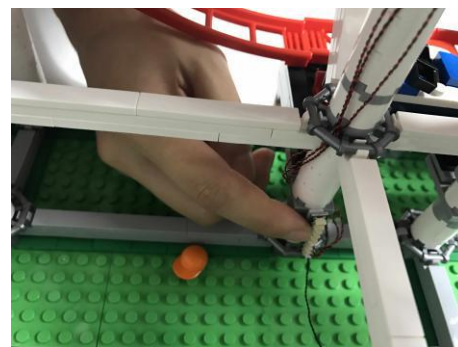
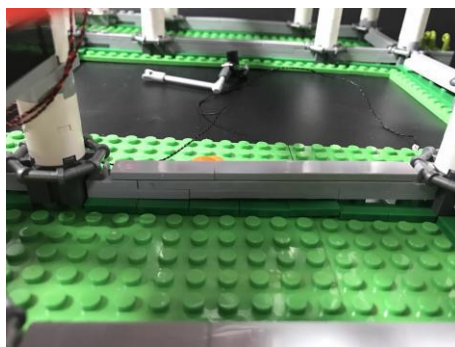
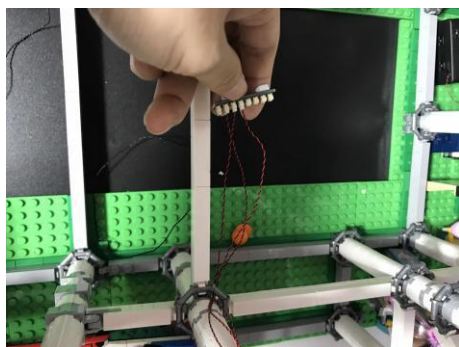
67) Pull the connectors of the lights down through the hole of the gray piece on the third level



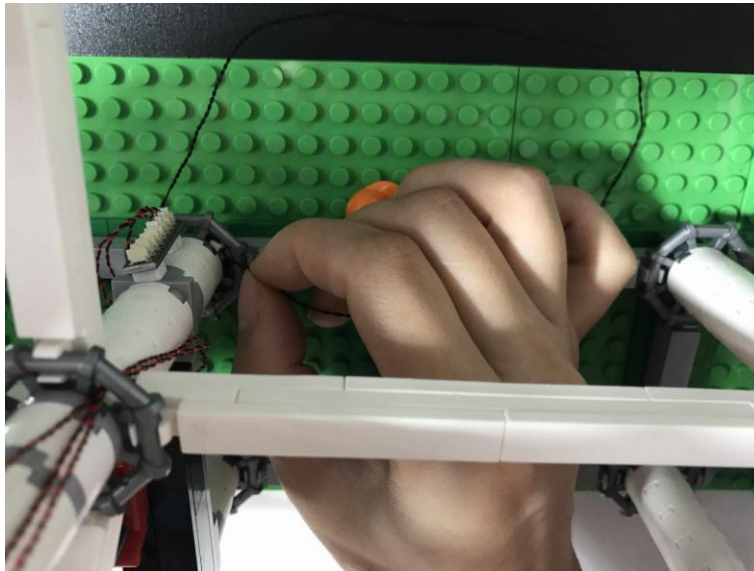
68) Take a 8-port expansion board, stick the adhesive tapes on its back, connect a 30cm cable to it



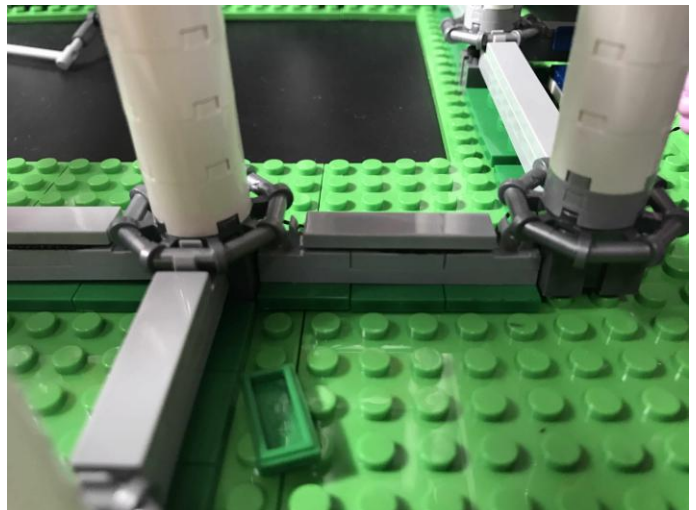
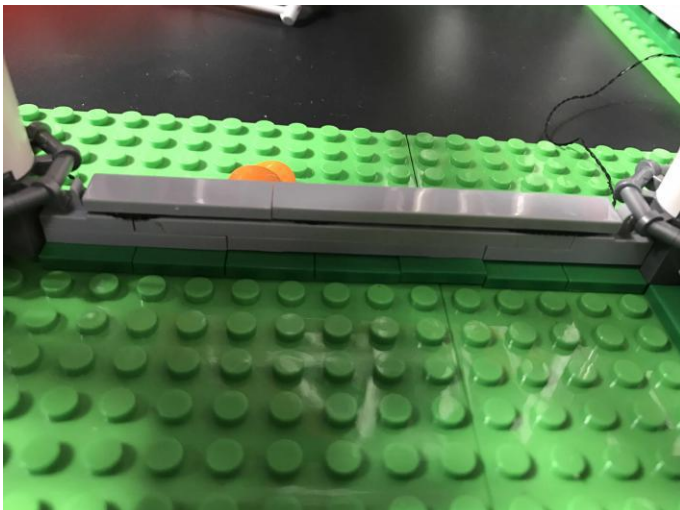
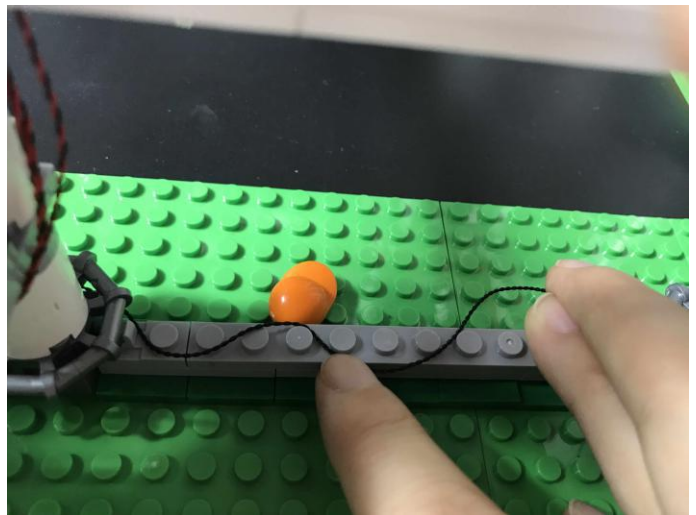
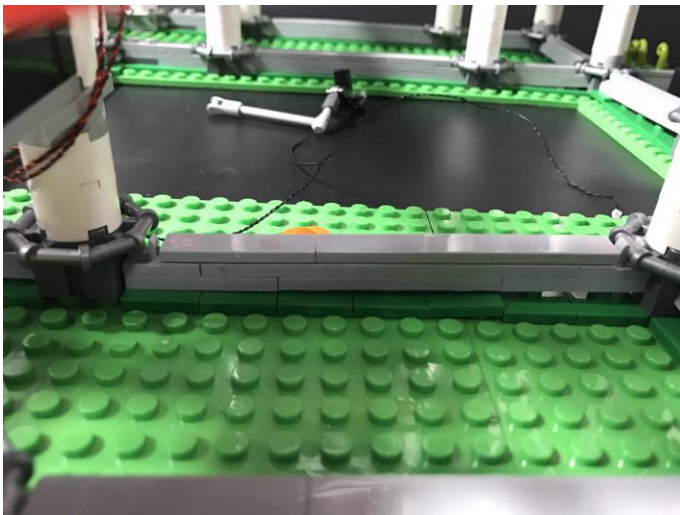
69) Insert the 3 connectors from the lights to the expansion board, tuck the excess cable around it



70) Thread the connector side of the 30cm cable through the hole of the gray piece



71) Remove the gray tile, place the cable in between the studs, reconnect the gray piece. repeat this step to pressing the cable underneath the next tile



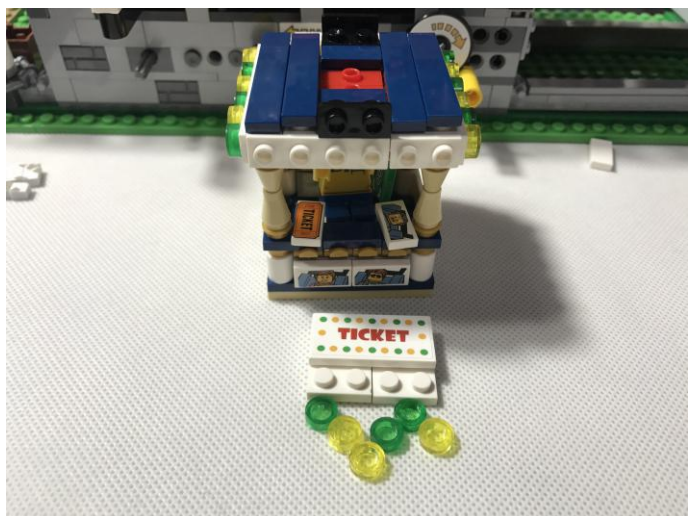
72) Connect the cable to the 6-port expansion board



Now, the installation of lights for the right section is finished, you can turn on the battery pack to check the lights



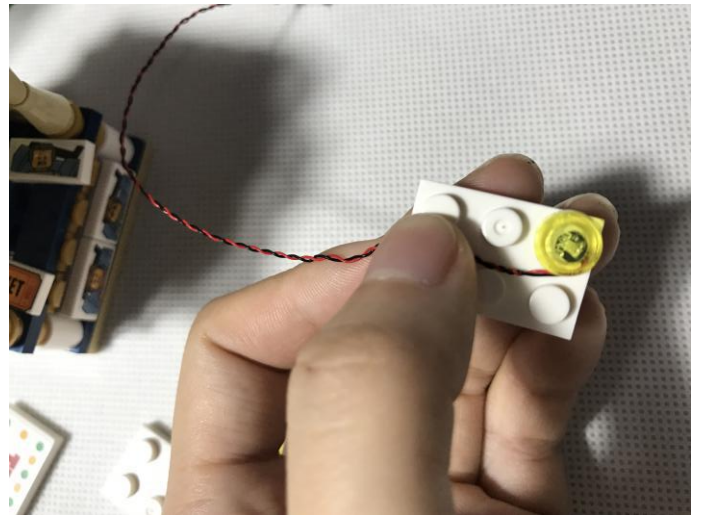
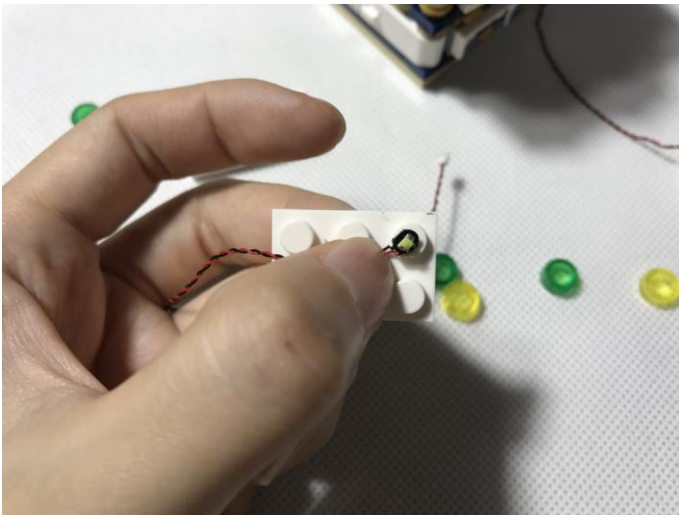
73) Separate the house at the left side from the roller coaster, remove the signboard



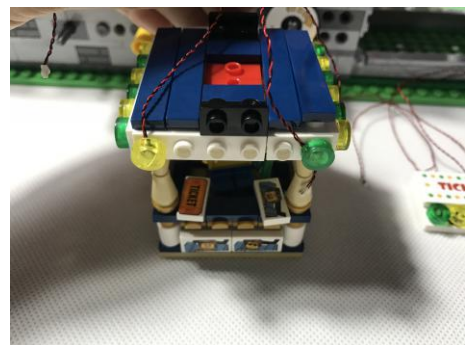
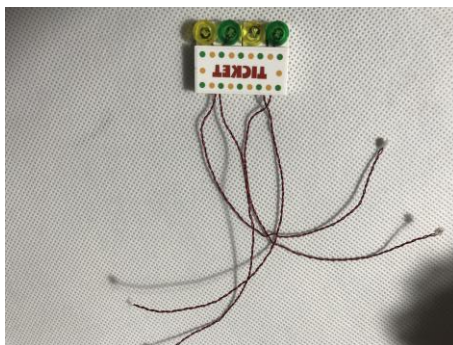
74) Take 6 flashing white 15cm dot light



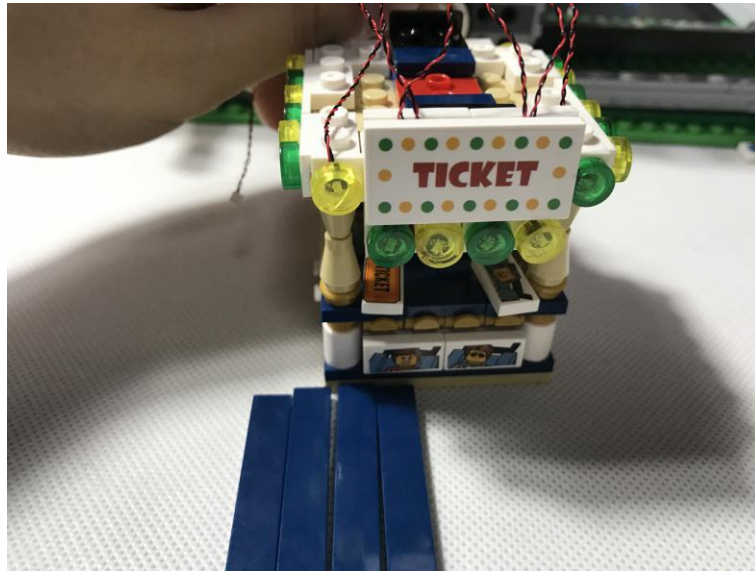
75) Install it on the stud of the white piece, reconnect the trans piece to secure the light



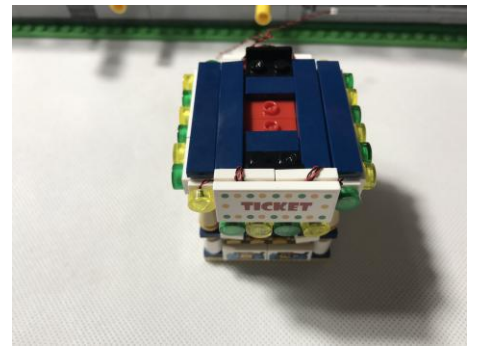
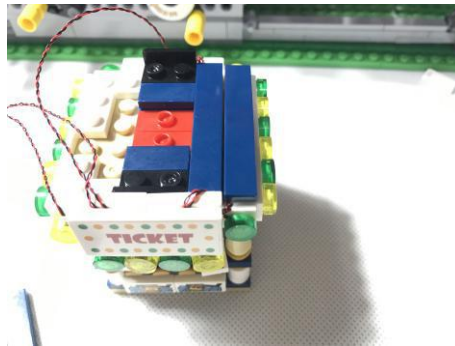
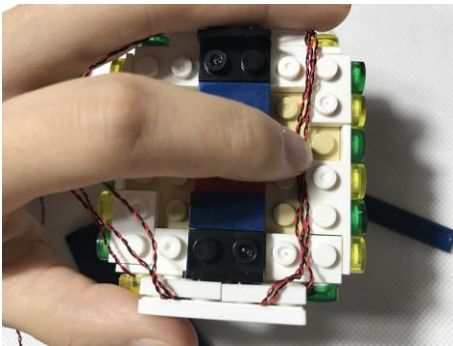
76) Repeat the previous steps to install all the 6 dot lights. Ensure you press the cables in between the studs



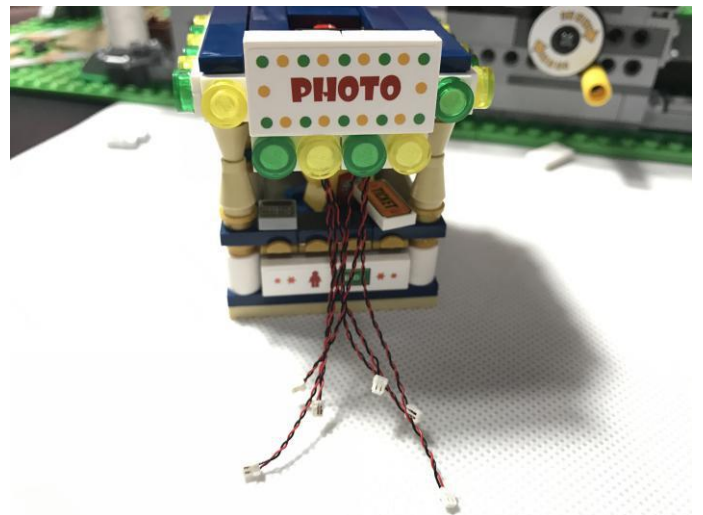
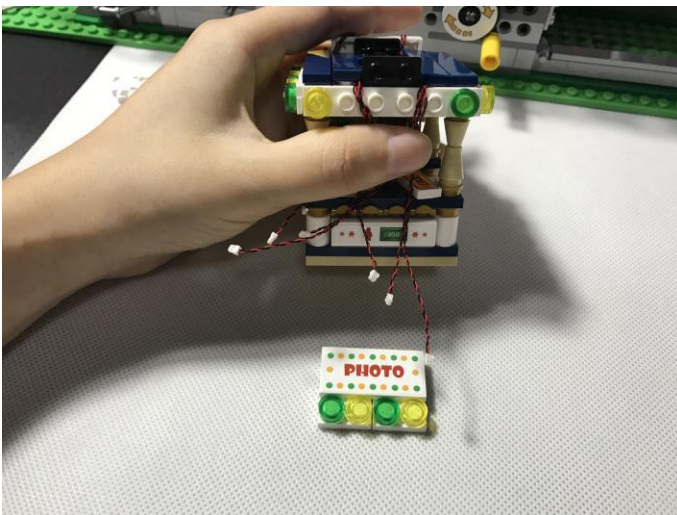
77) Reconnect the signboard. Remove the 4 blue tiles from the roof



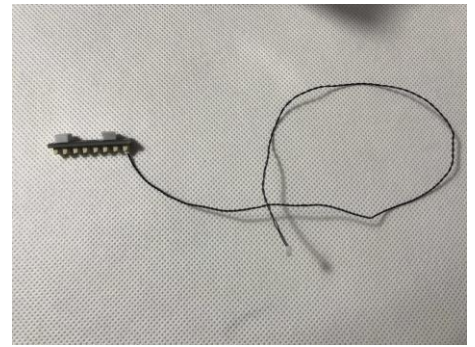
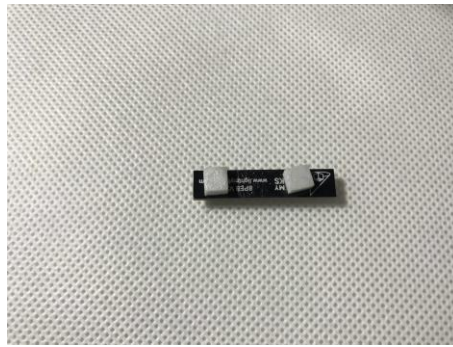
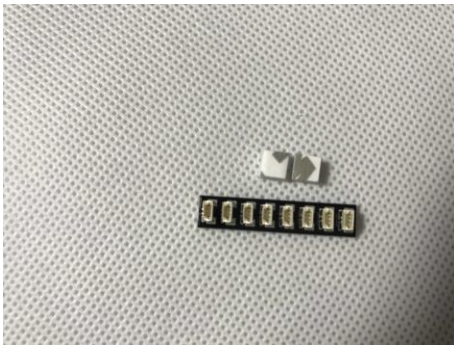
78) Group the 3 cables from the right side together to form a larger one, press them in between the studs, reconnect the blue pieces. And repeat it for the other 3 cables at the left



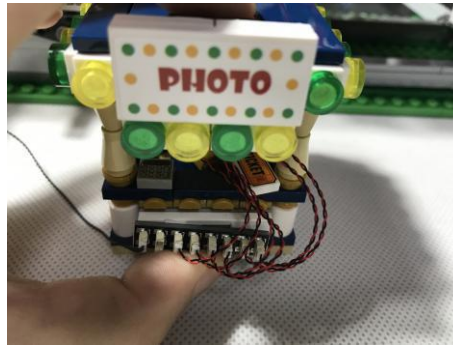
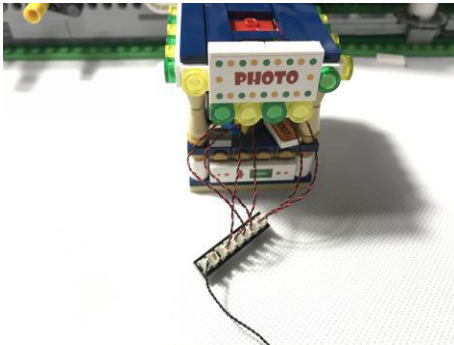
79) Remove the signboard at the back, place the cables in between the studs



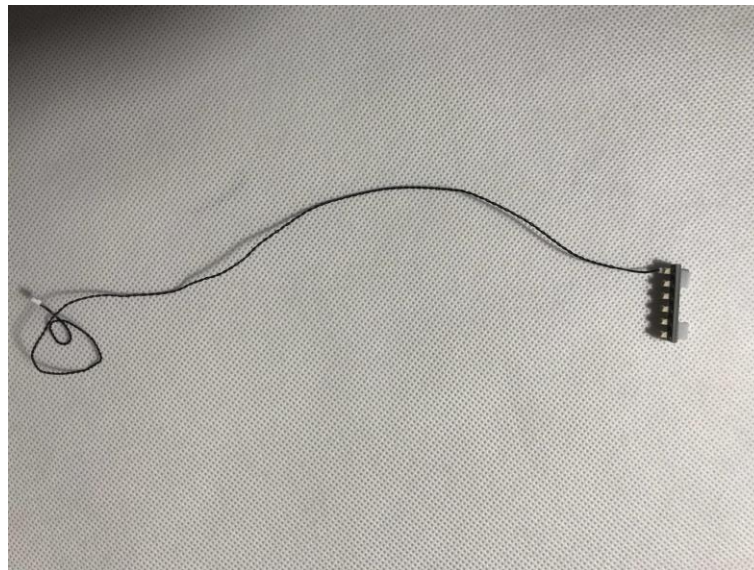
80) Take a 8-port expansion board and 2 pieces of adhesive tapes, stick the tape at the back of the expansion board, connect a 30cm cable to it



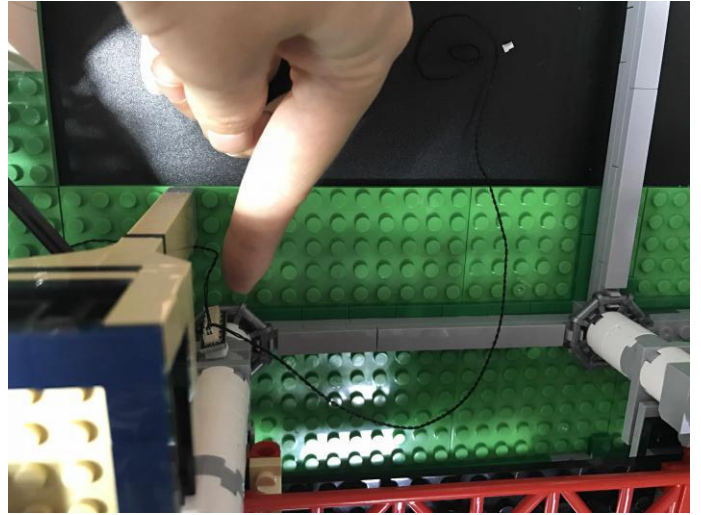
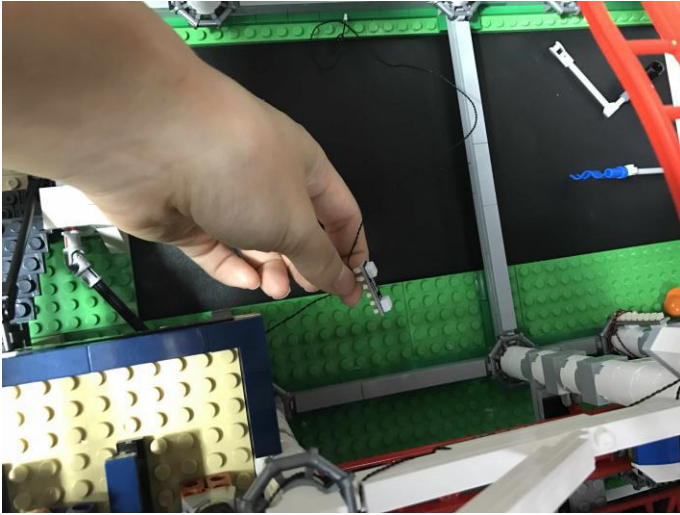
81) Connect the cables of the lights to the expansion board, stick the expansion board at the back of the house, reconnect the house section.



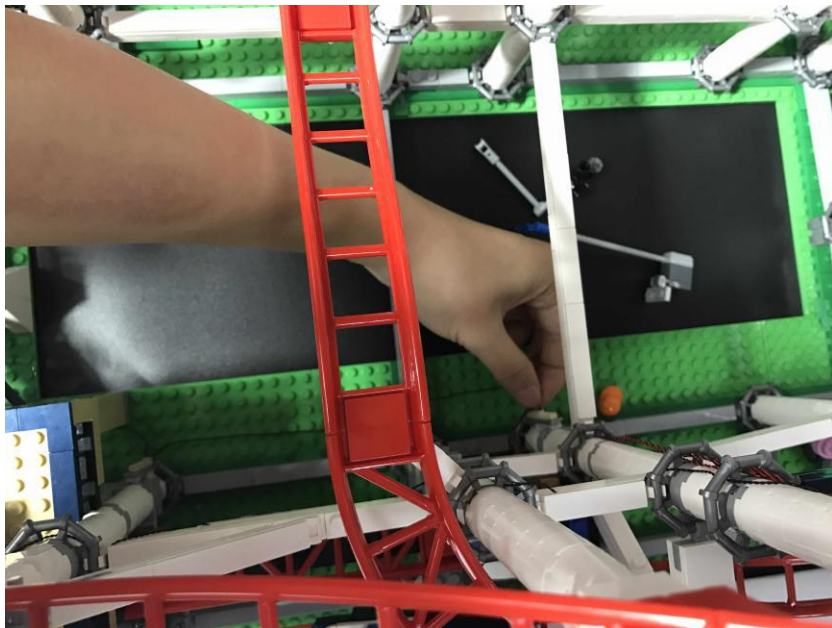
82) Take a 6-port expansion board, 2 pieces of adhesive tapes, a 30cm cable. Connect them as we did before



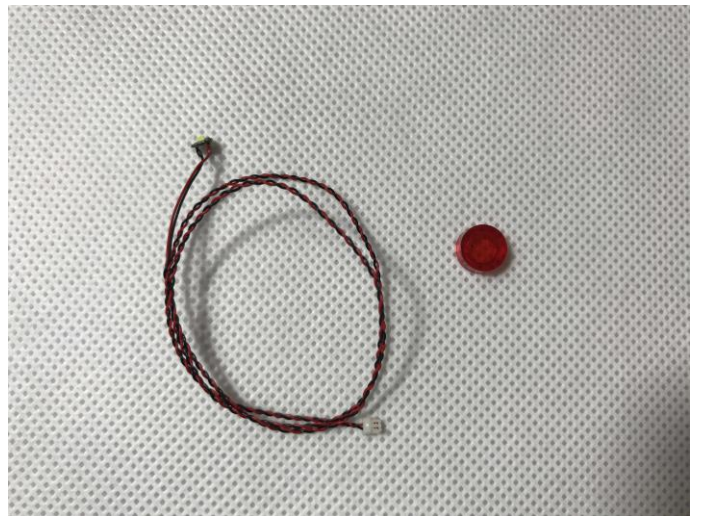
83) Pull the cable from expansion board at the back of the house to the right side of the console, connect it to the 6-port expansion board, then, stick the expansion board at the bottom of the pole.



84) Connect the cable to the 8-port expansion board, hide it underneath the gray beam in between studs



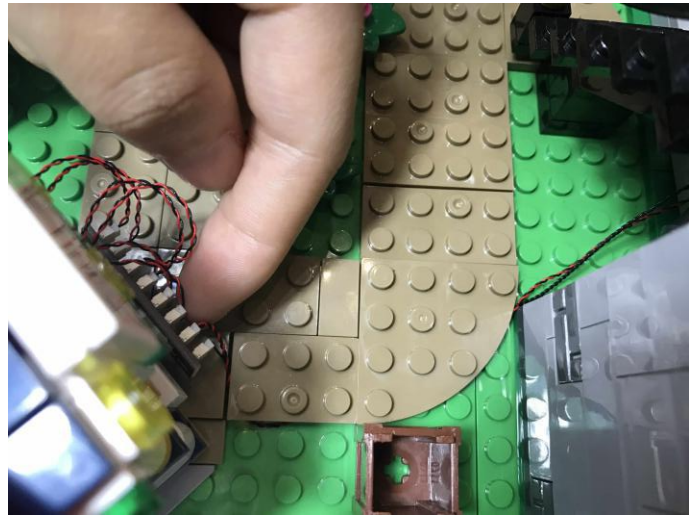
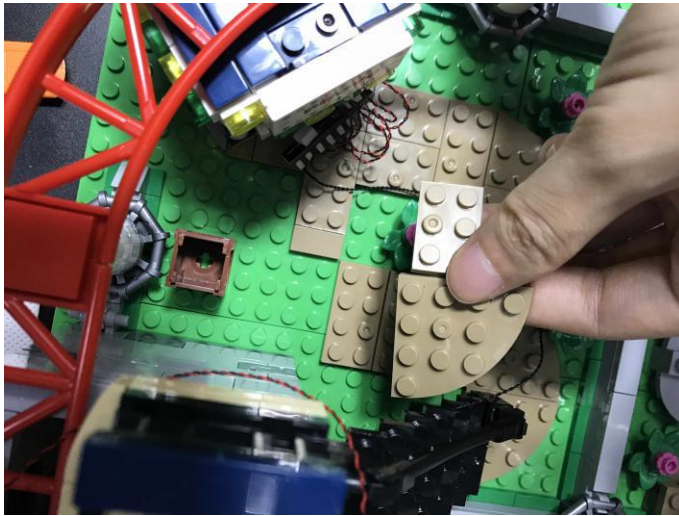
85) Remove the following trans red piece from the console, take a white 30cm dot light



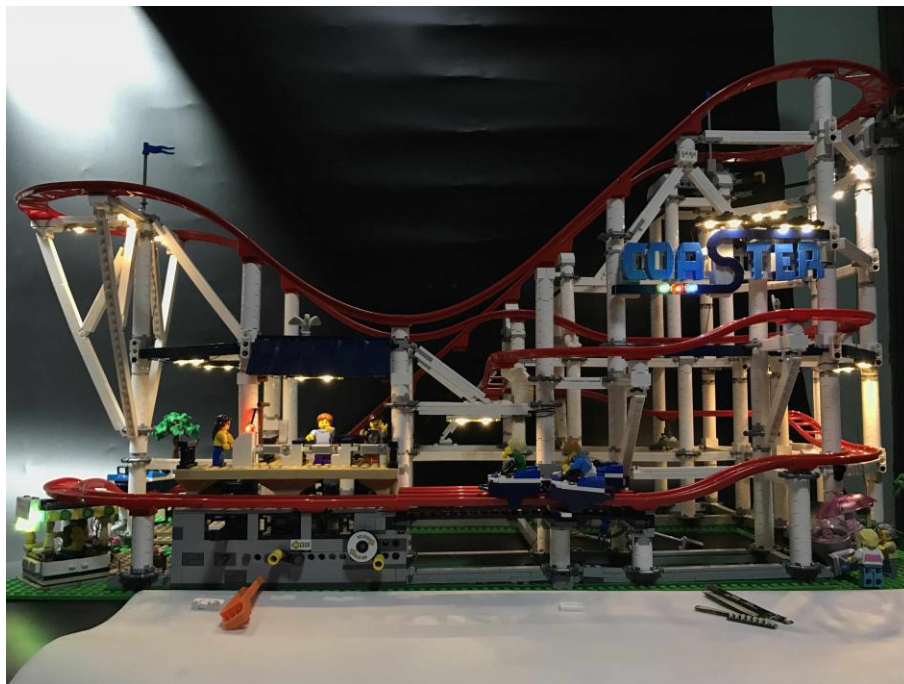
86) Place the dot light where the trans red piece is taken from, then ,reconnect the trans red piece to secure it. Pull the cable downward along the stairs behind the console



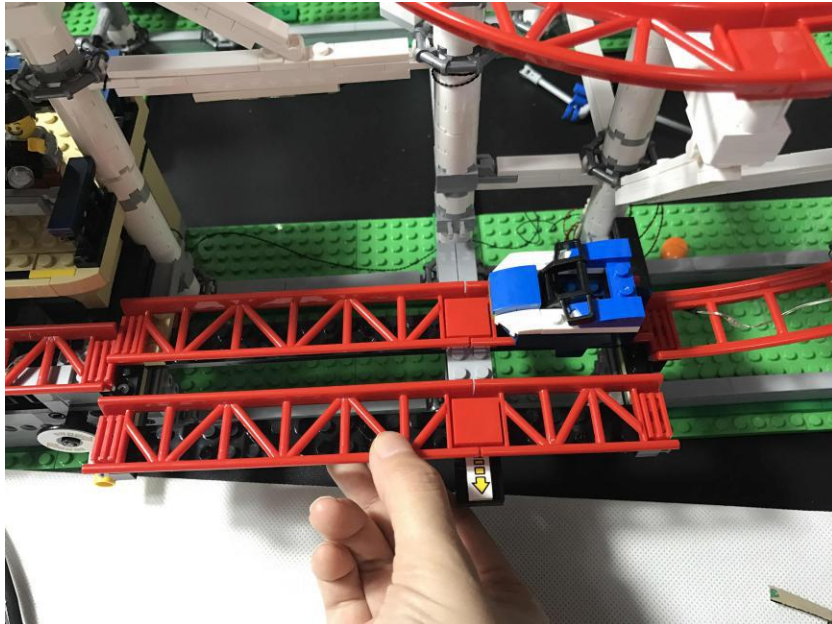
87) Remove the following pieces, hide the cables underneath in between studs



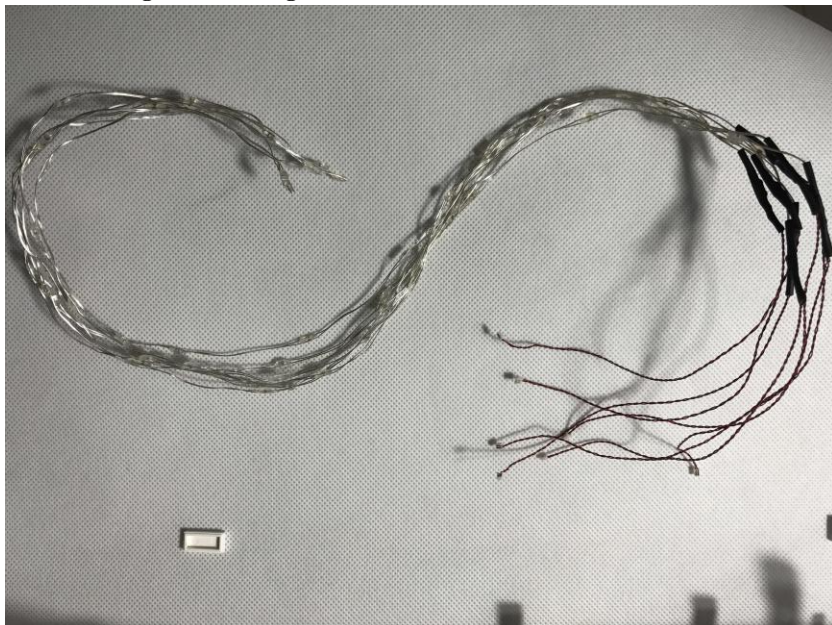
Lights for this section is completed, you can turn on the battery pack to check it



Then, we move onto installing the lights for the rails.
Start from the sides of the rails



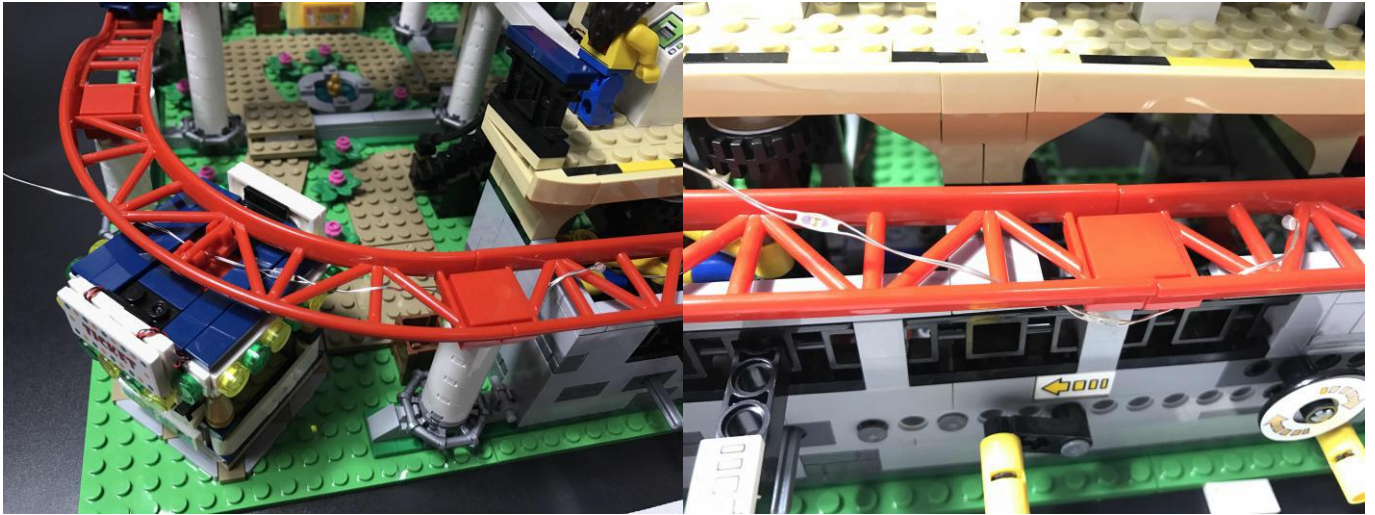
88) Take 7 multi-colour light strings



89) We' ll now install the lights of the left section. Take a light string, thread its connector side through the triangle hole, pull it out from the back of the console, wind it 2 times on the pole, then, insert it to the 6-port expansion board



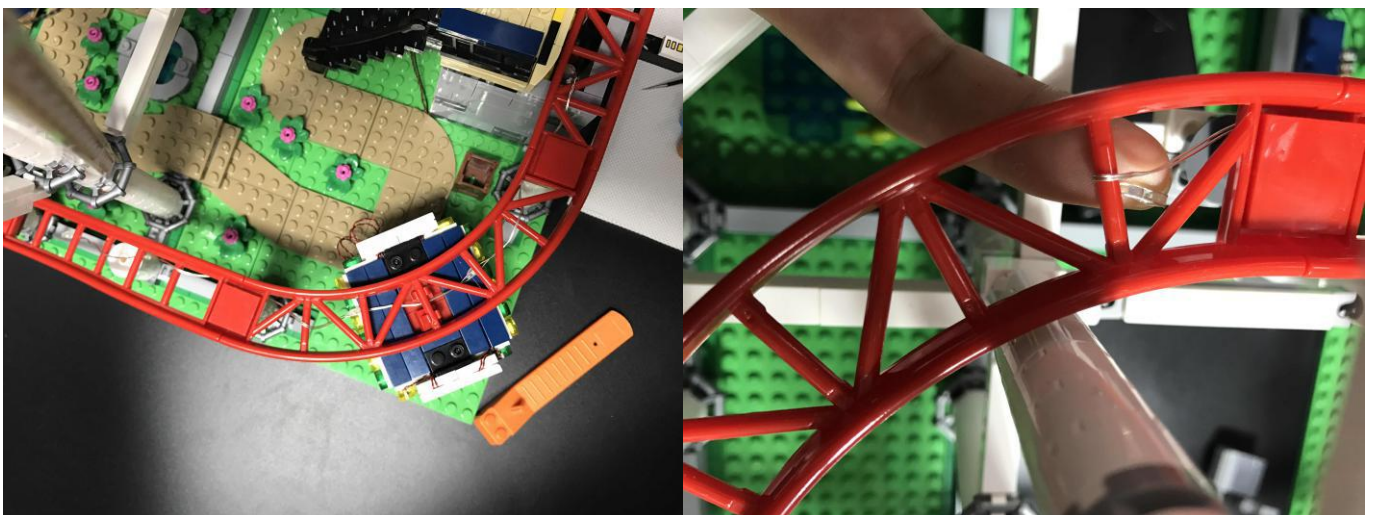
90) Wind the light string on the rail as per below. Note: to avoid blocking the roller coaster, place the LED components underneath



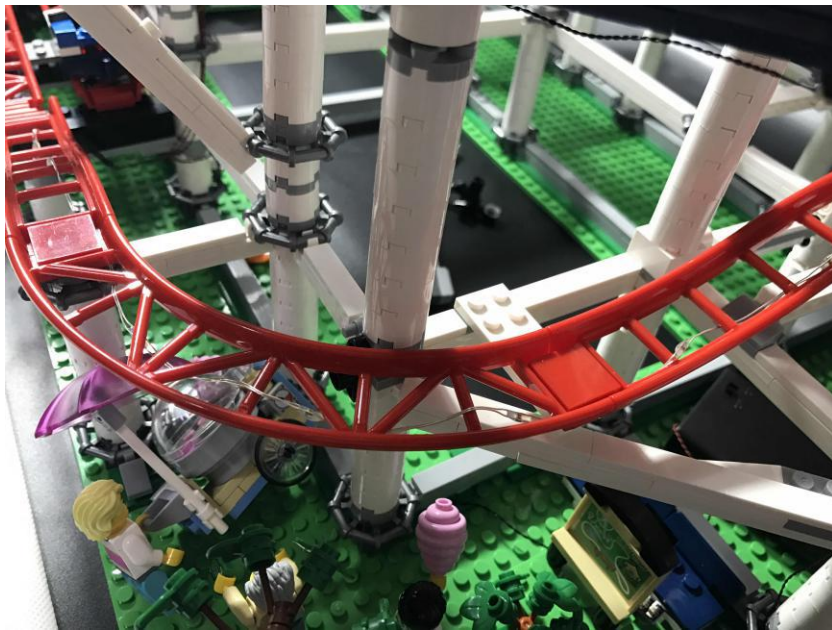
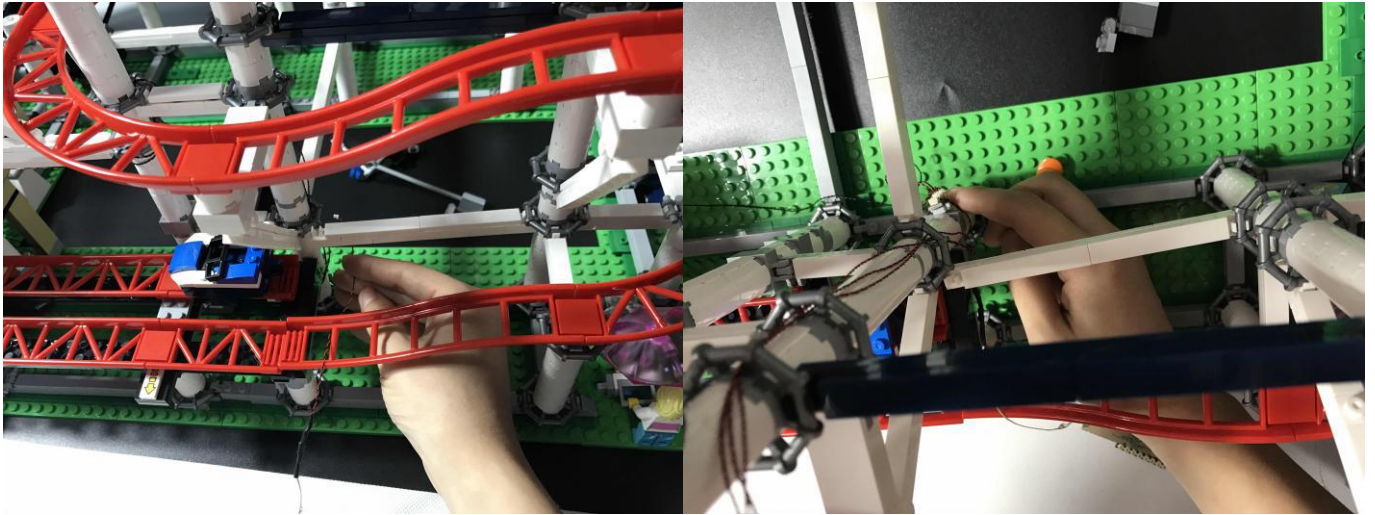
91) To better hide the string, you can start threading it from the outside



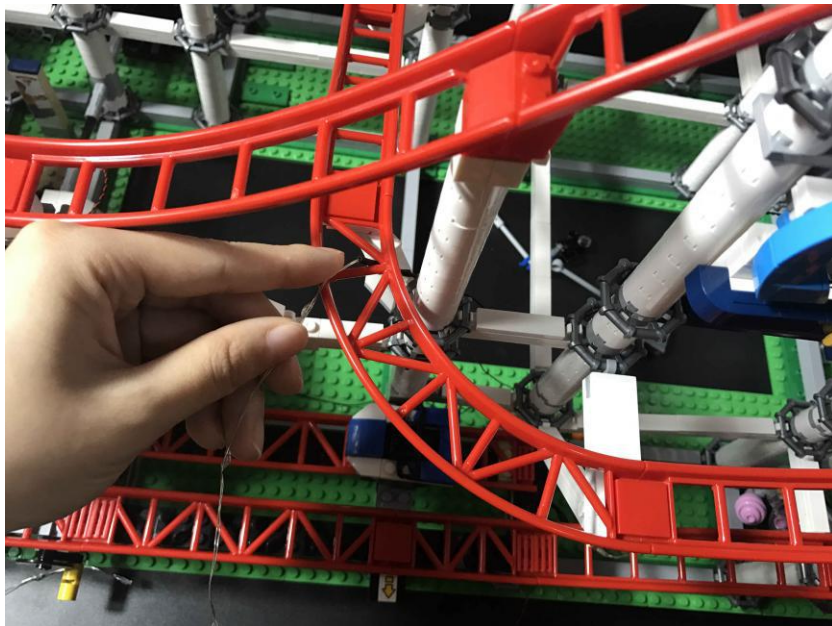
92) When you finish winding it, secure it as per below



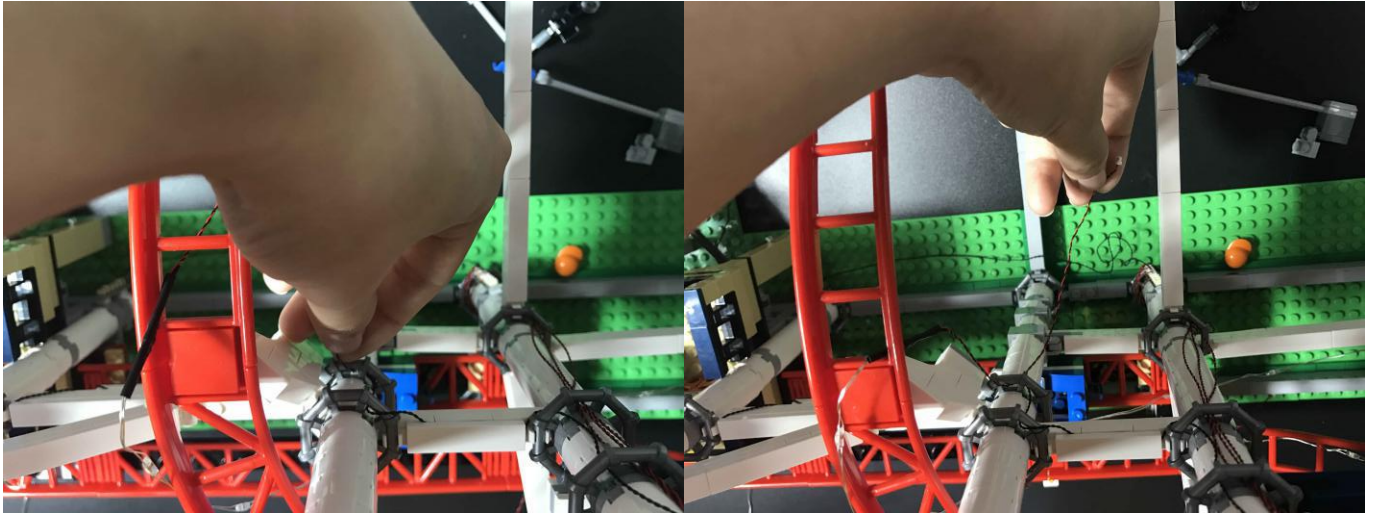
93) Wind another string the same way we did before, wind this string around the right side of the rail. Insert it to the 8-port expansion board



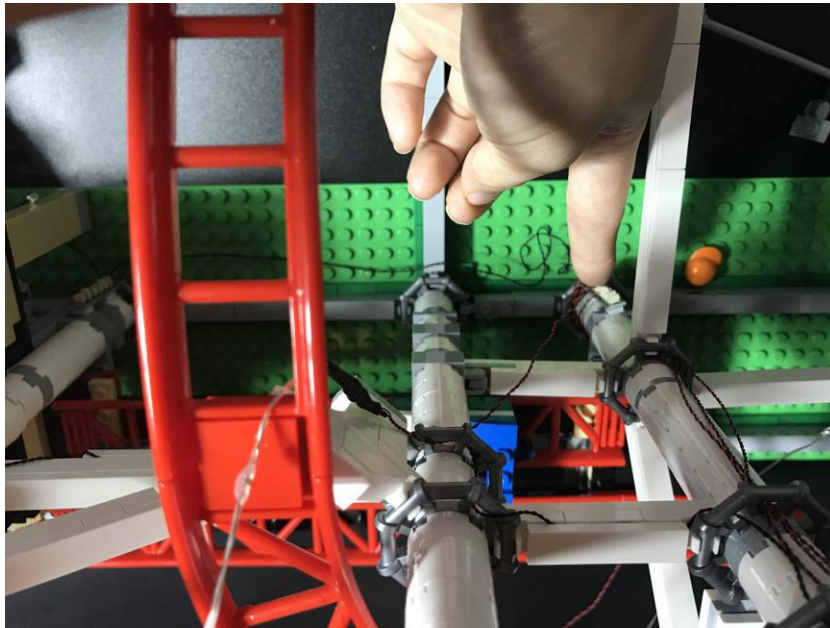
94) Repeat the previous steps for the third string, then, thread its connector through the triangle hole, as per below



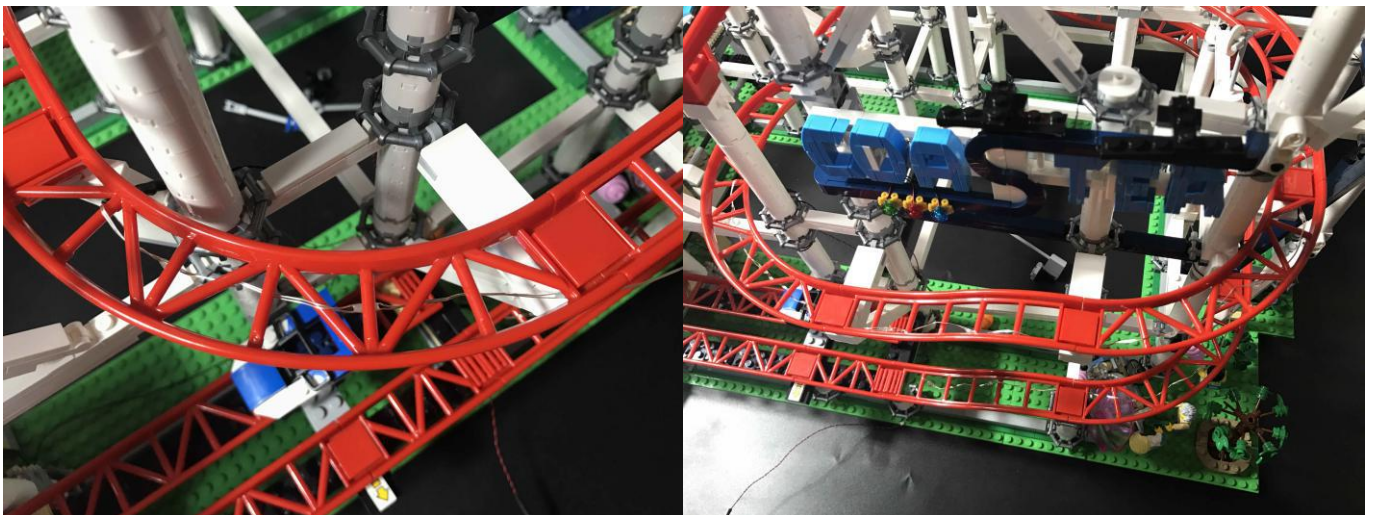
95) Continue to thread it through the hole on the gray piece, pull it downward to the base plate



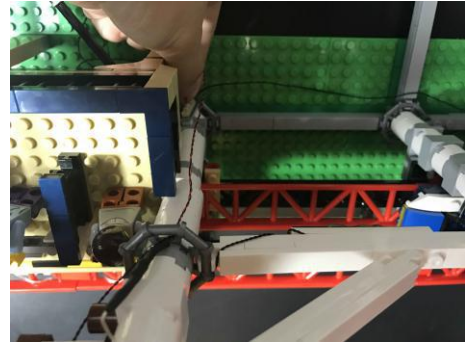
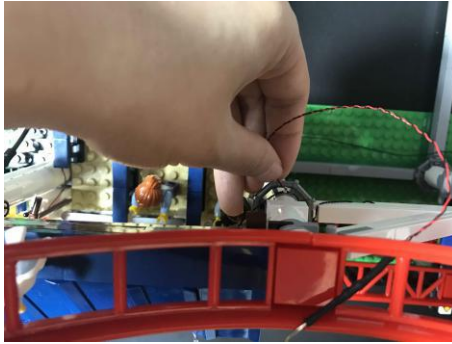
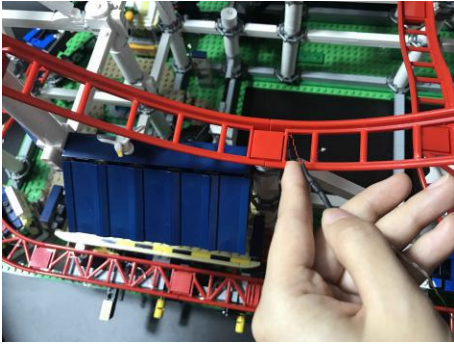
96) Insert its connector to the 8-port expansion board



97) Wind it around the right side of the rail as we did in previous steps



98) Using the same method for the forth light string, thread the connector through the gap on the rail, then the hole on the gray piece, insert it to the 6-port expansion board



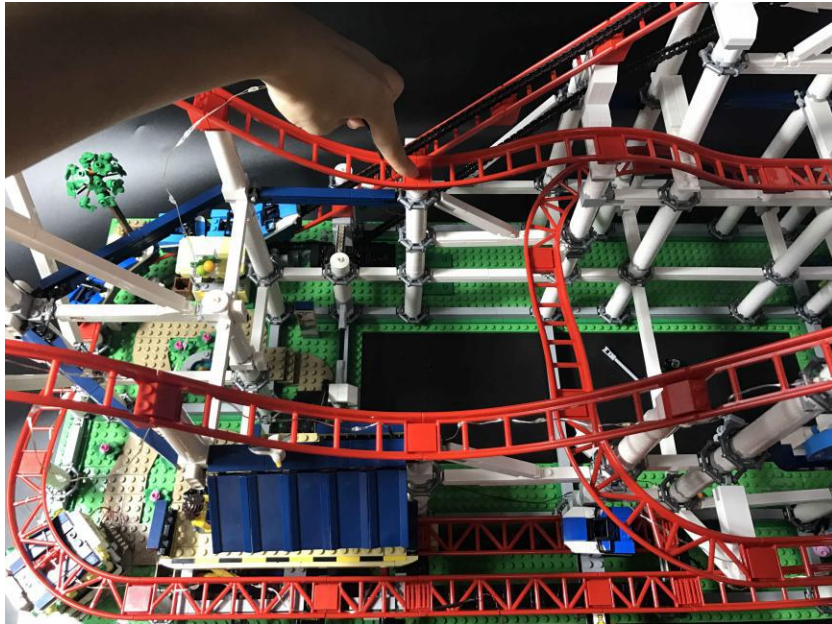
99) Wind the light string around the right side of the rail



100) Take the fifth light string, thread it through the gap on the rail, then through the hole of the gray piece, insert it to the 6-port expansion board. Wind the string around the left side of the rail



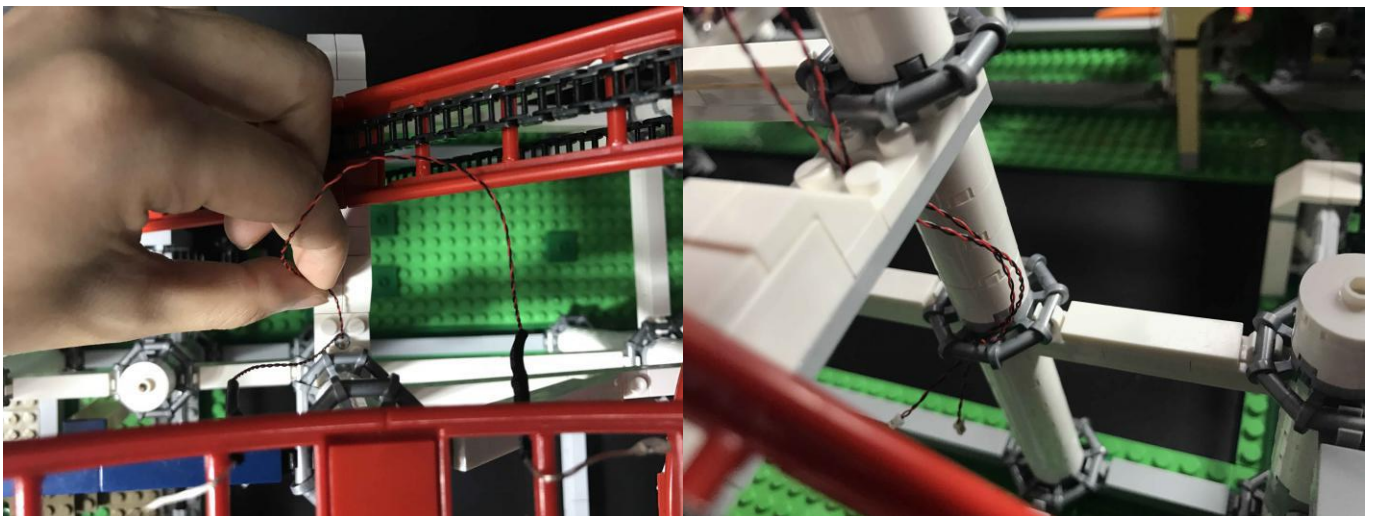
101) Installing the last 2 light strings from where the finger is pointed



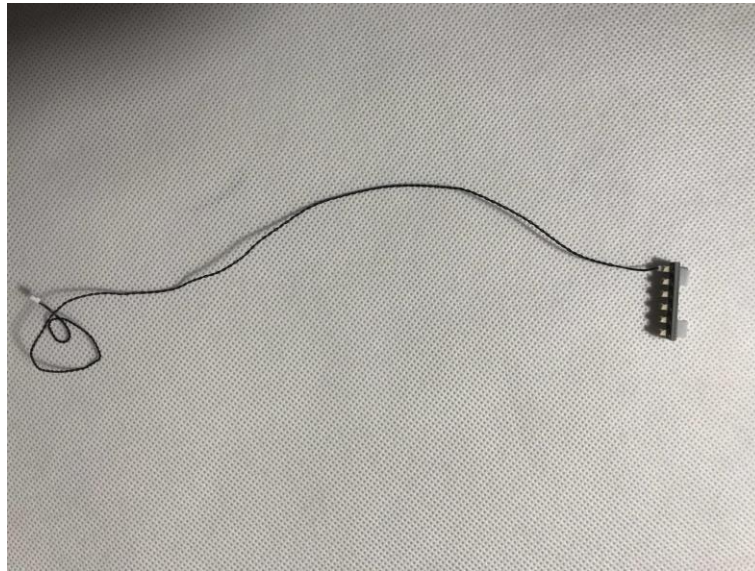
102) Take the sixth light string, wind it around the left side of the rail. Wind the last light string around the right side of the rail



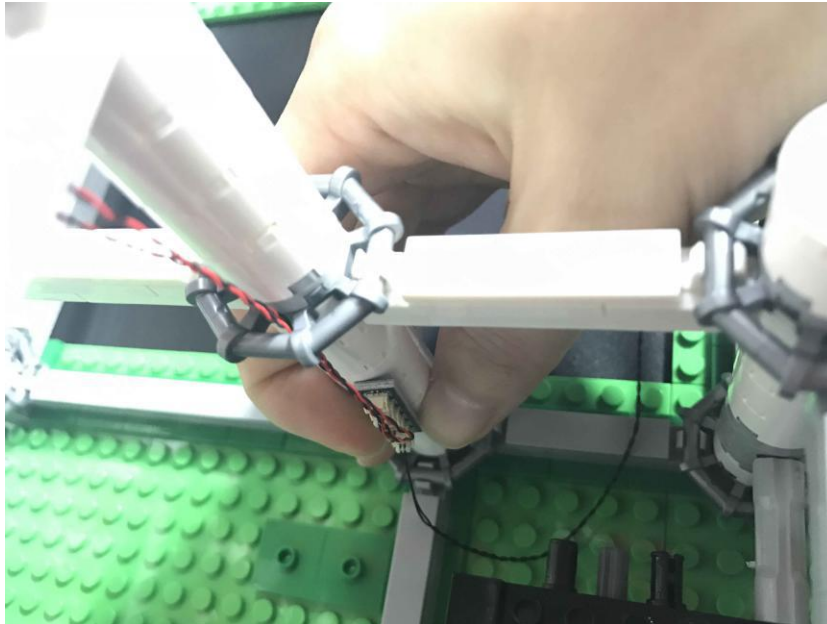
103) Thread both strings through the hole behind the white pole, then through the hole of the gray piece



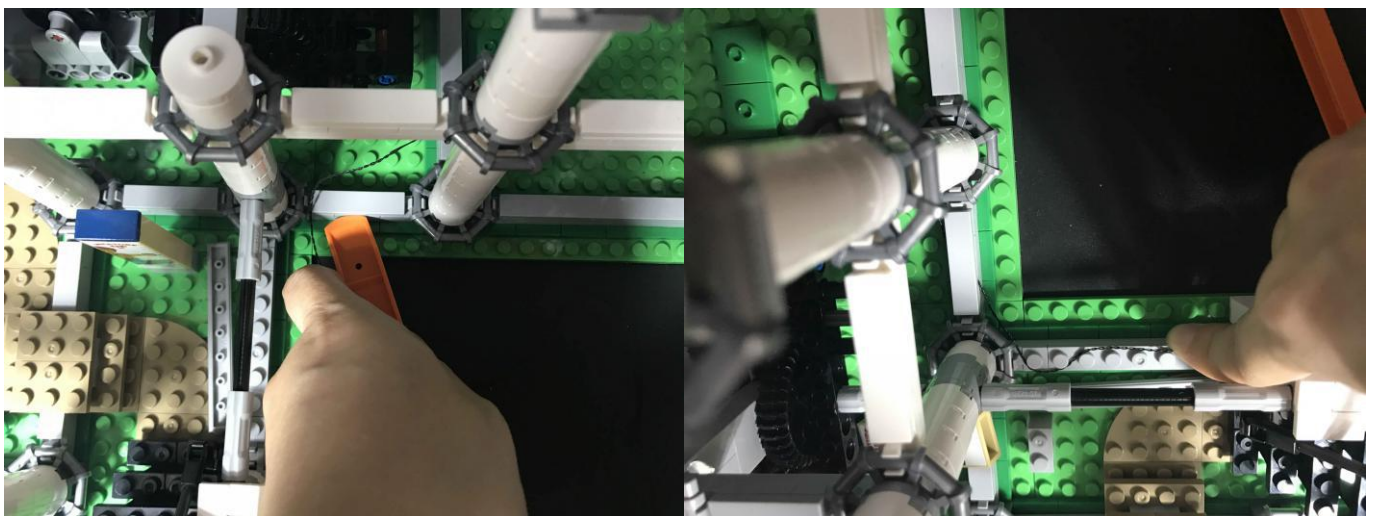
104) Take a 6-port expansion board, 2 pieces of the adhesive tapes and a 30cm connecting cable. Stick the tapes at the back of the expansion board, connect the cable to it



105) Connect the connectors of the last 2 light strings to the expansion board, stick it at the back of the white pole



106) Remove the 2 tiles at the left side of the pole, hide the cable underneath in between studs.



107) Pull the 30cm cable down along the stairs, insert it to the 6-port expansion board at the back of the console.



This completes installation of the Lighting Kit. ENJOY!

