

10303 Loop Coaster P38701

- **P38701 is the unique code of lighting set, we use this to accurately identify the product you purchased and the corresponding manuals and services you need to obtain. Please make sure your product code is the same as the label on the back of the box shown “10303 P38701”.**
- **Installation requires a lot of patience and great observation that your LEGO bricks will come alive when you get this finished. The bricks with lighting as below, so make sure you're ready and let's get started.**



Strategies for the Installation

This instruction divides three sections to complete the installation of the lighting set.

Section A: Check the type and quantity of components.

The quantity and type of components of each products are different and it needs to be carefully checked to make sure there do have enough material. The type of components is indicated by the label on the bag.

Section B: Test that each components is working properly.

Each components is made individually so it is necessary to test that each components is working properly to avoid the situation that the lighting does not work .

Section C: laying out components following the instruction.

Our material is very small but not fragile, just be reminded that don't to pull the wires too hard. For different people, there may be some installation steps that you can't understand. Please look at the previous and later installation steps.

Section A: Check the type and quantity of components.

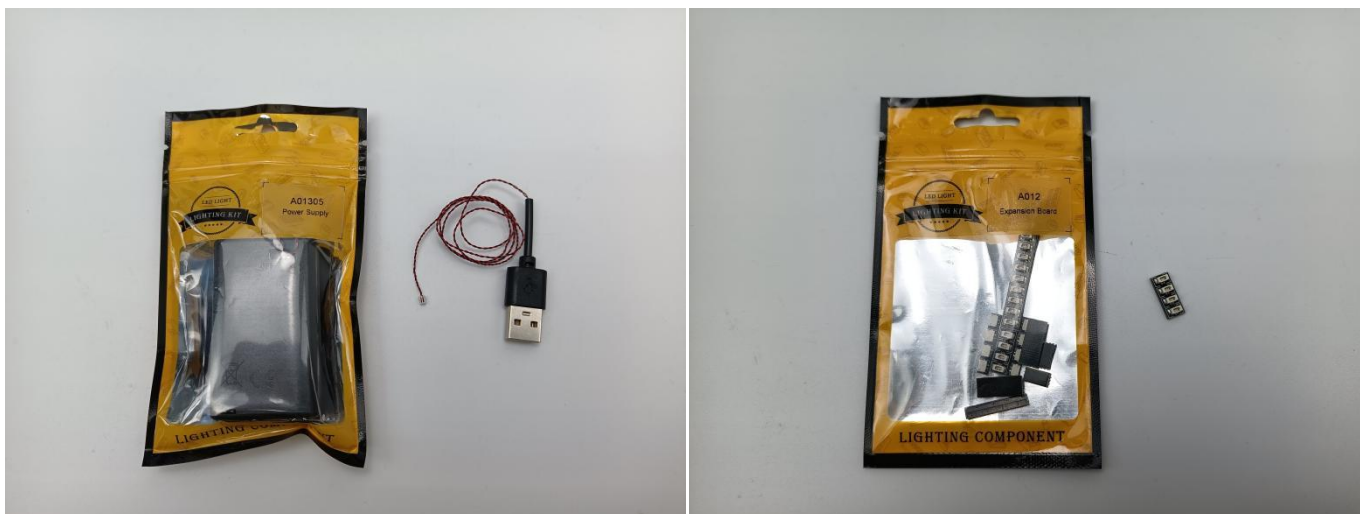
There are 15 bags in this set. The name and quantities of specific components are as shown , please check carefully.

Label	Content	Quantity
Light-15CM Green	Light-15CM Green	2
Light-30CM Warm White	Light-30CM Warm White	4
Flash Light-15CM Orange	Flash Light-15CM Orange	1
Flash Light-30CM Orange	Flash Light-30CM Orange	1
LED Strip Warm White	LED Strip Warm White	3
Expansion Board	12 Socket Expansion Board	1
	2 Socket Expansion Board	1
	4 Socket Expansion Board	4
	4 Socket Expansion Board-flat	3
Power Supply	Power Supply	1
Connecting Cable 5CM	Connecting Cable 5CM	1
Connecting Cable 30CM	Connecting Cable 30CM	6
Connecting Cable 50CM	Connecting Cable 50CM	1
Connecting Cable 20CM	Connecting Cable 20CM	3
Multi-Colour String	Multi-Colour String	7
Light Strip-Cyan	Light Strip-Cyan	2
Light Strip-Warm White	Light Strip-Warm White	2
Components		

Please contact us immediately if there have any missing components.

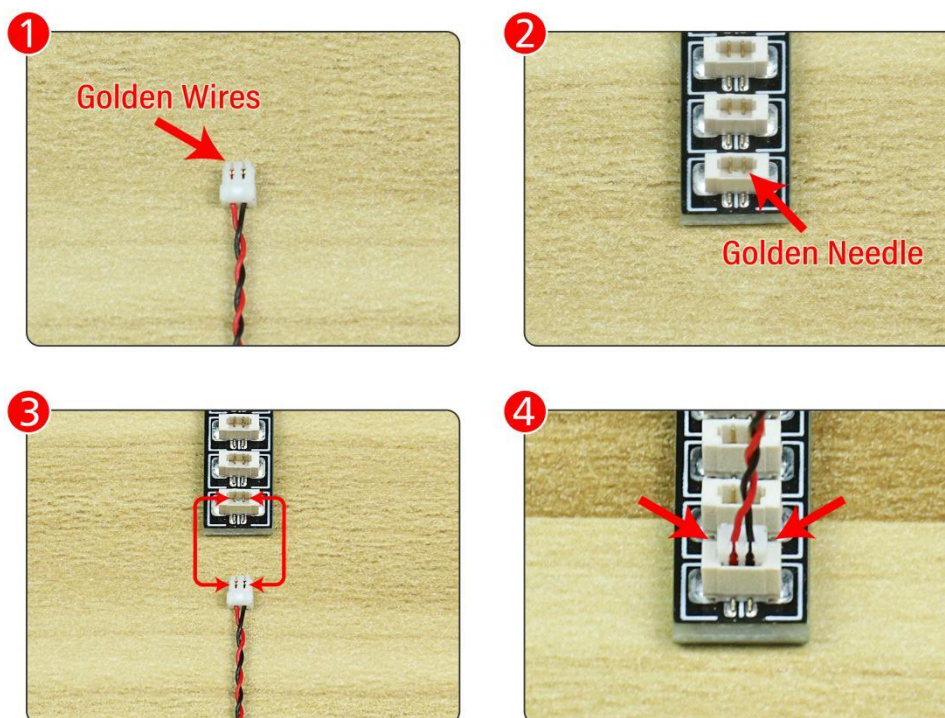
Section B: Test that each components is working properly.

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



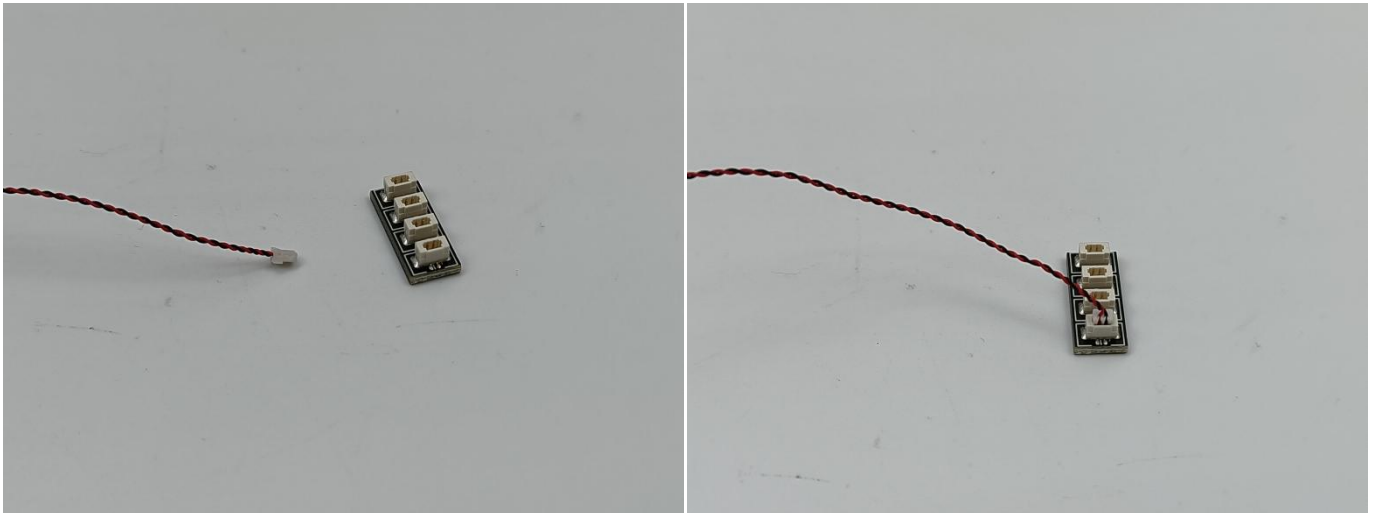
It is worth reminding that our products are all customized. They have a unique way of connecting. The white plug on wire and the socket of the expansion board need to be connected together to transmit power.

Note that on one side of the white plug you can see two very small golden wires that should be connected to the two golden needles in socket of the expansion board. shown as blow.

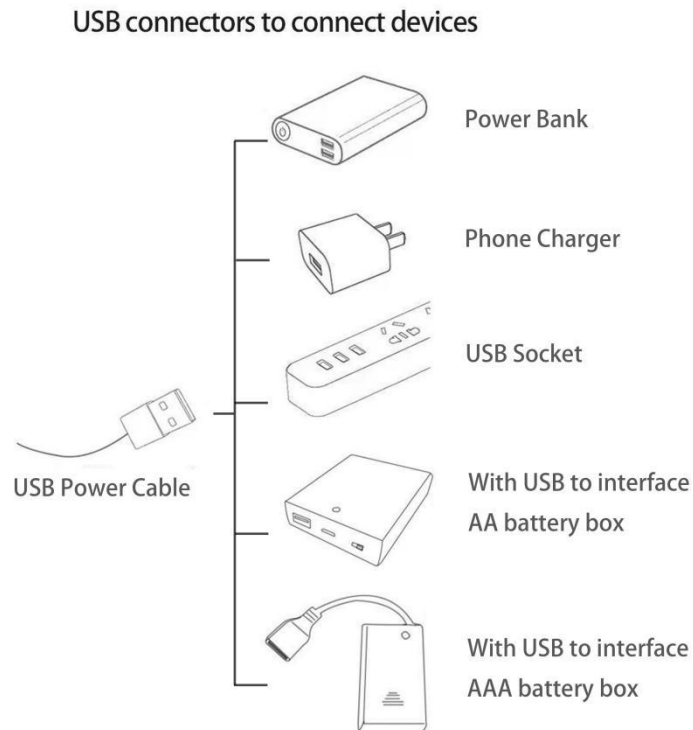


All our connections between plug and socket are all the same as shown above. So for any such structure with plug and socket, please pay attention to the golden wire of the plug and the golden needle of the socket, they must be touched together.

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



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

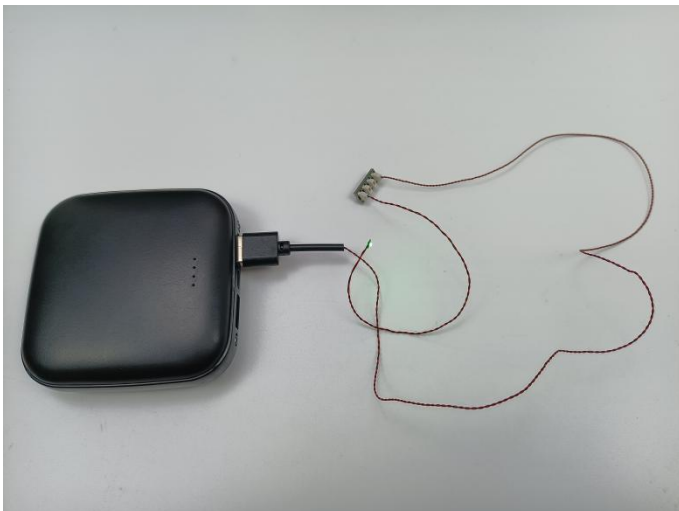


This instruction will use the power bank as power supply . The test structure is shown as follow. All lamp in this set will be tested by this structure.

The battery box can also power the set. If it is necessary to change the power supply , prepare three AAA batteries, install them in the battery box, turn on the switch on the battery box, remove the plug of the USB Power Cable from the socket of the expansion board,plug the plug of the battery box to the same socket in the expansion board to power the suit as well.



when we test " Light-15CM Green" particles,Take out the bag labelled " Light-15CM Green".Take out one of the light and connect it to the socket. Turn on the power bank, the light will turn on normally as shown below.



Test each lamp according to this method. It should be noted that after the test, the lamp must be returned to the corresponding bag to avoid confusion of types.

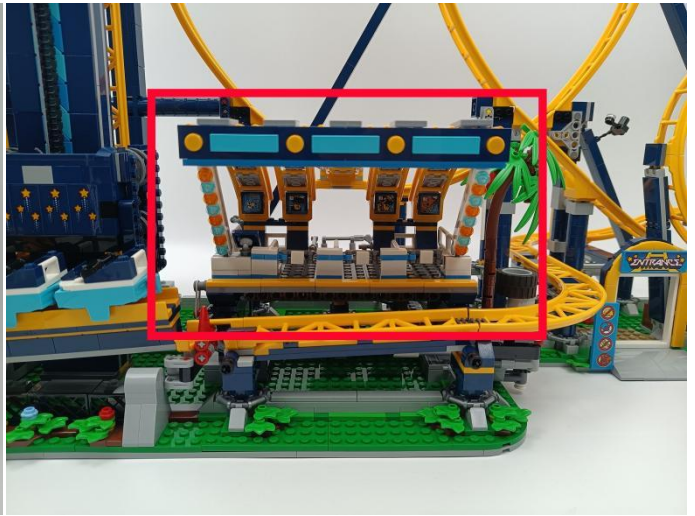
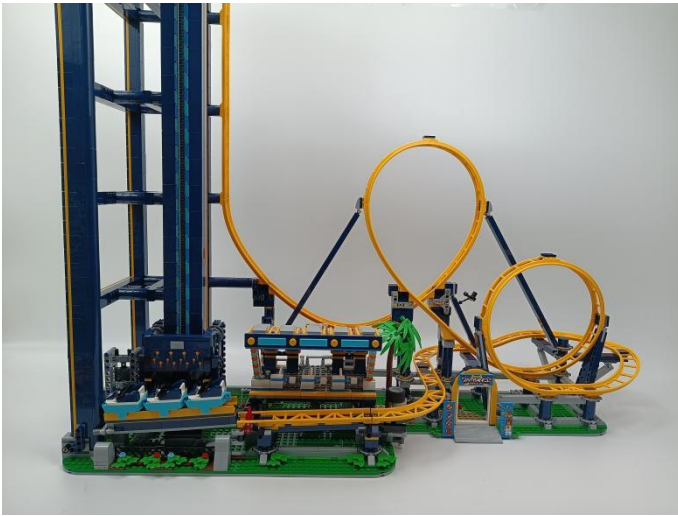


The components needs to be tested in this set is 2* Light-15CM Green,4* Light-30CM Warm White,1* Flash Light-15CM Orange,1* Flash Light-30CM Orange,3* LED Strip Warm White,7* Multi-Colour String,2*Light Strip-Cyan,2* Light Strip-Warm White.

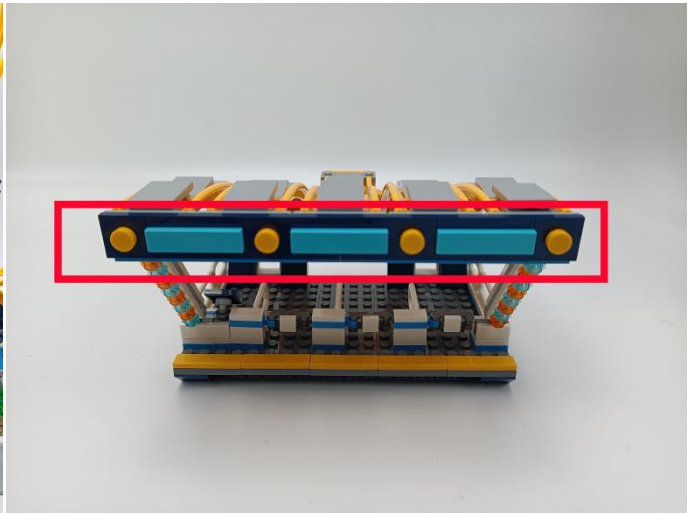
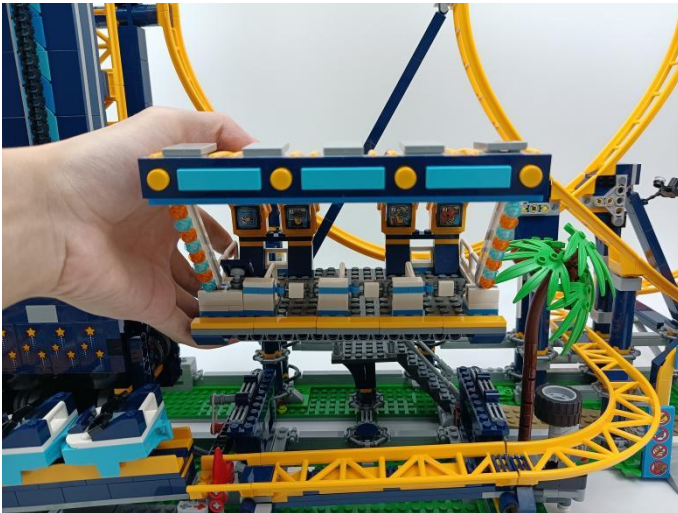
Please contact us immediately if any components don't work.

Section C: laying out components following the instruction.

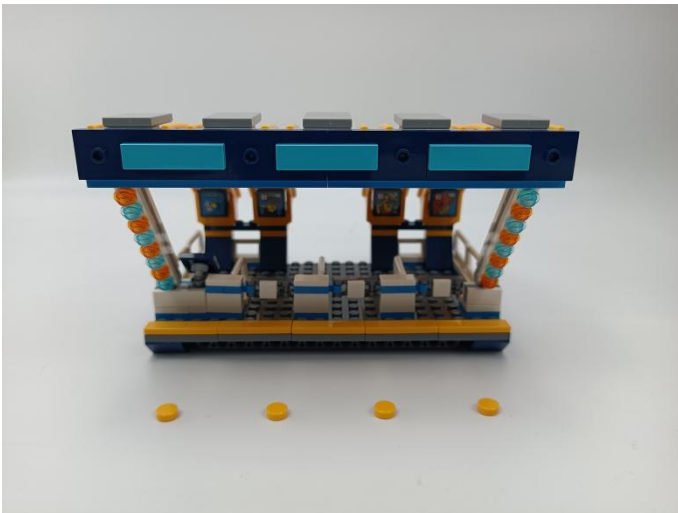
1

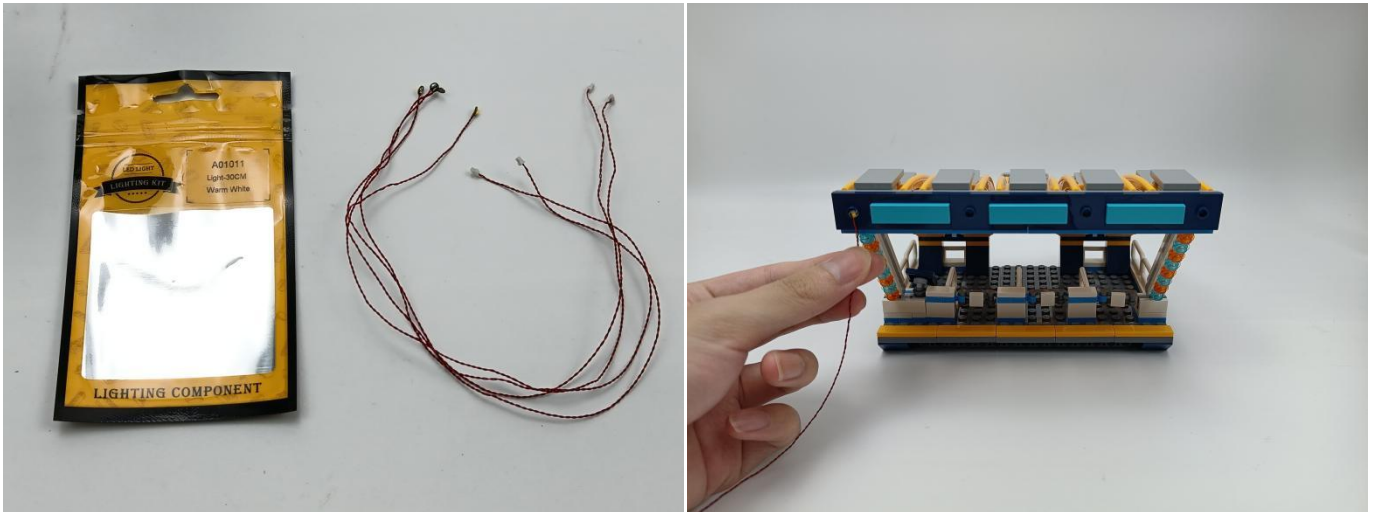


2



3





Tips

The slit on the the plate round 1X1 are hand-made to avoid squeeze the wire and cause short circuit and abnormal heat during installation.

The plate without slit:

The plate without slit:

The squeeze causes the protective layer of the wire to be torn apart, the positive and negative wires touch together, and the set is short-circuited and the hot or wire is crushed, the wire to be disconnected and don't work.



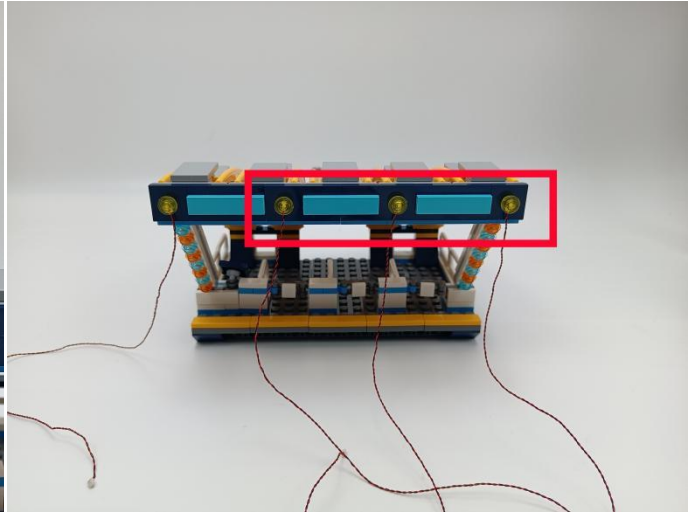
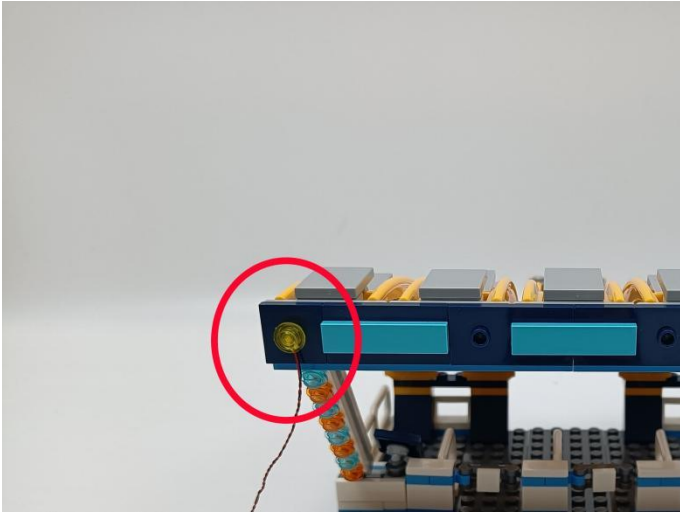
The plate with slit:

The plate with slit:

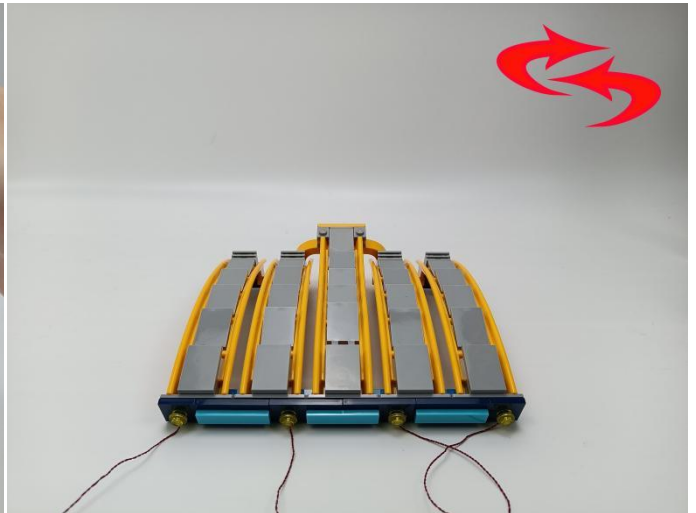
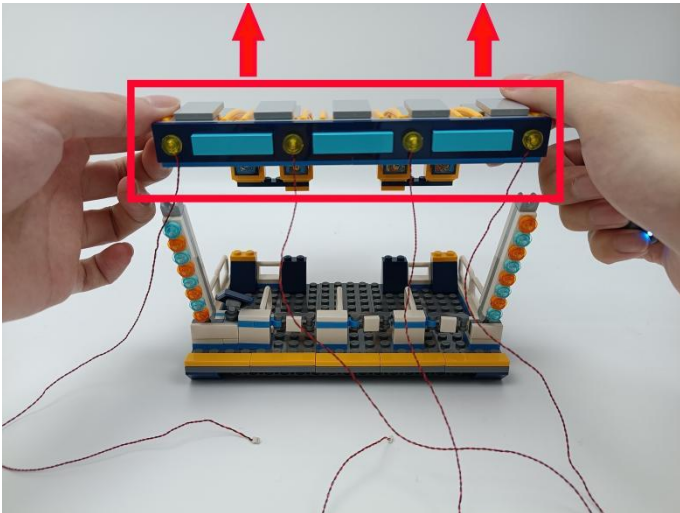
The wire has enough space to avoid being squeezed endowed with longer service life and more stable effect.



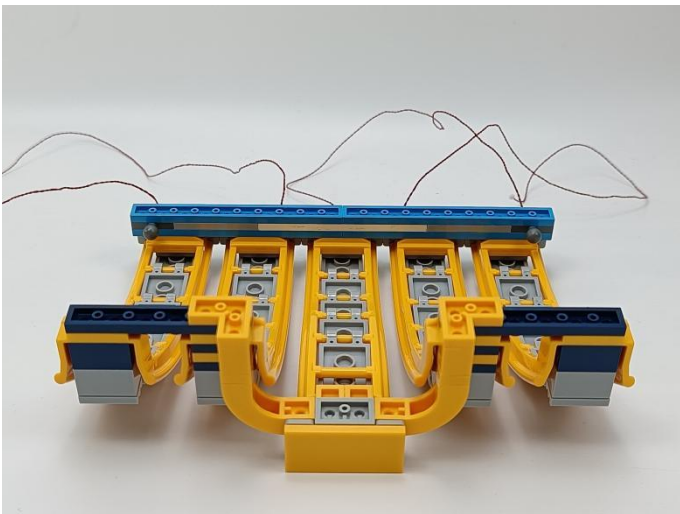
5



6



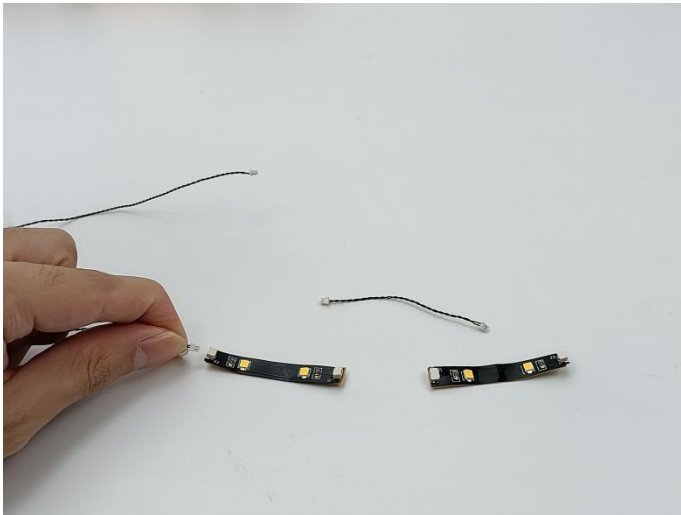
7



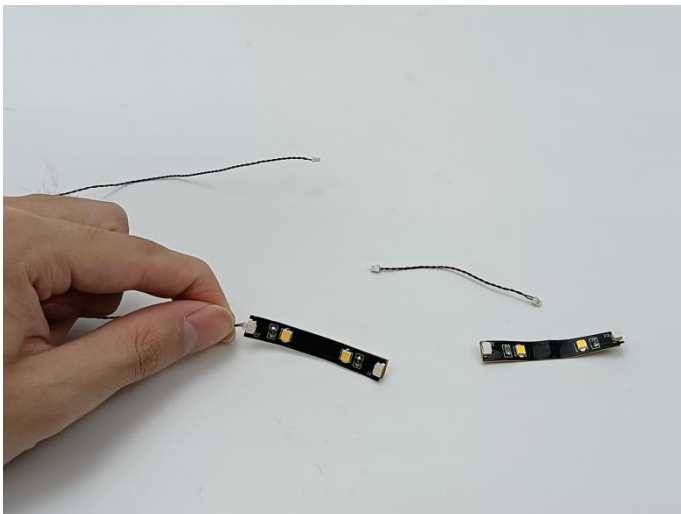
8



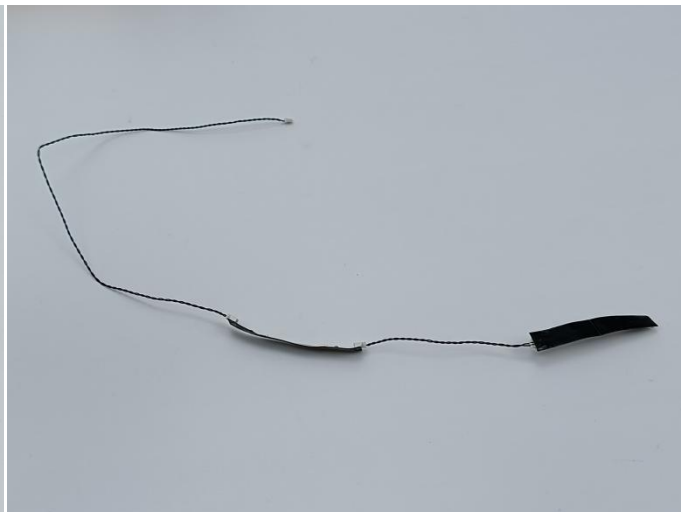
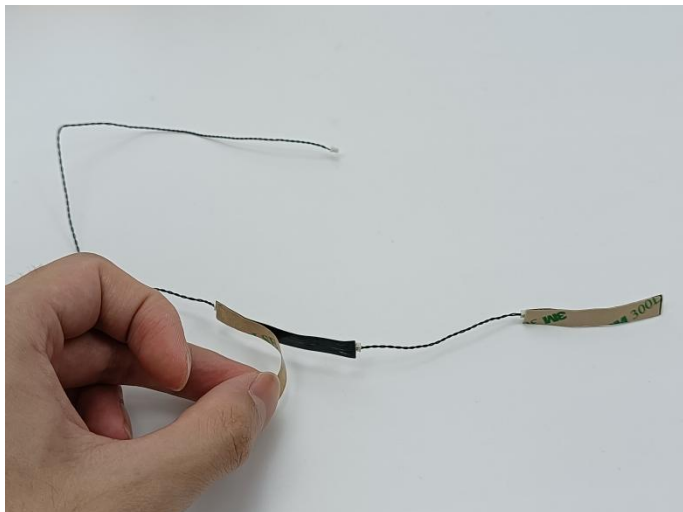
9



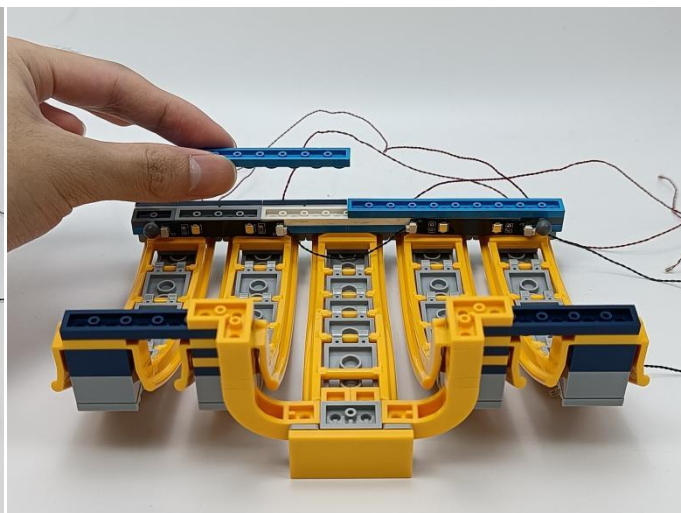
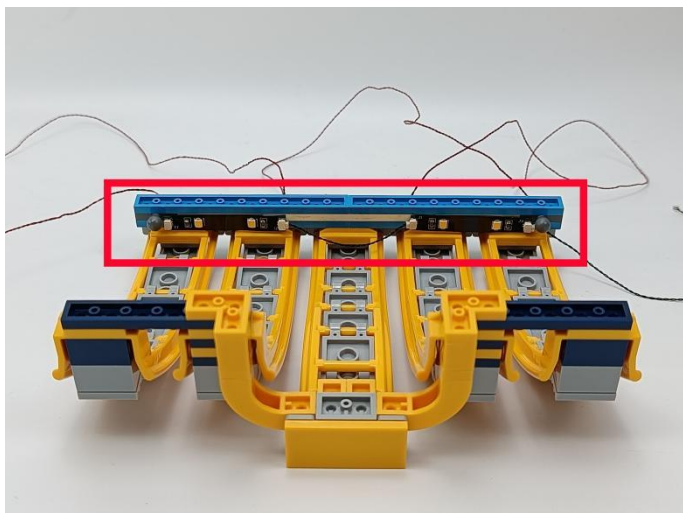
10



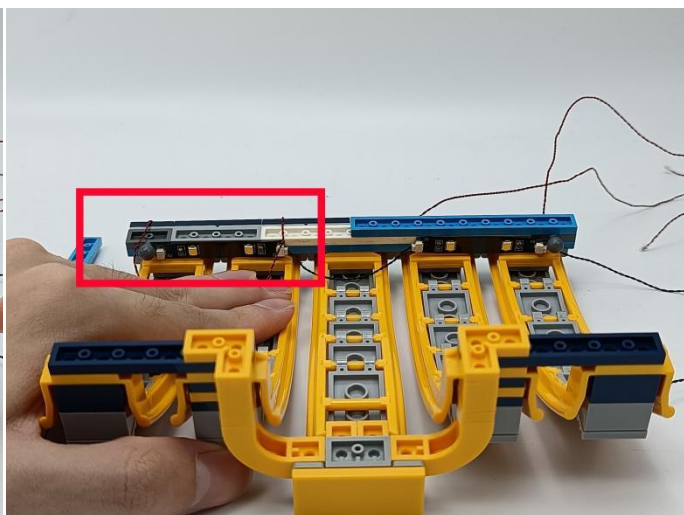
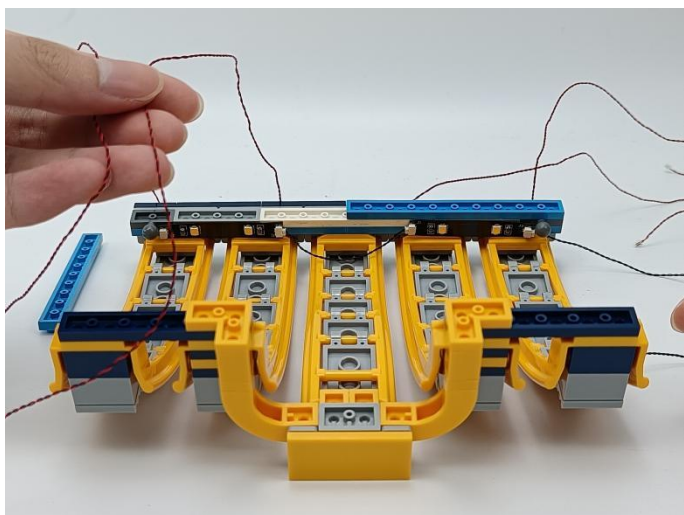
11



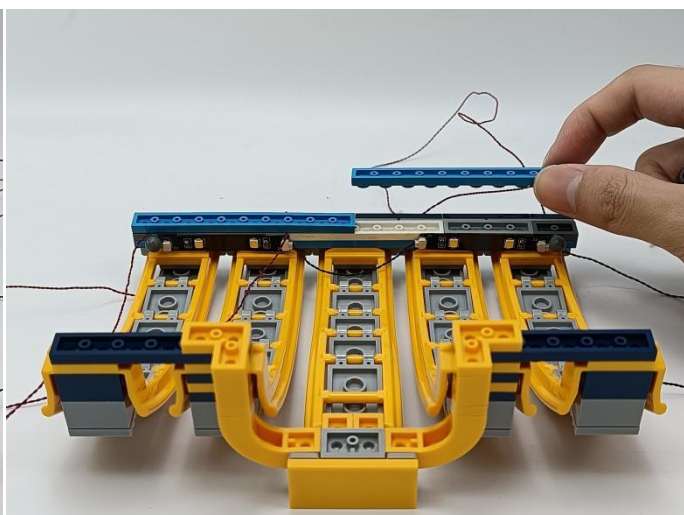
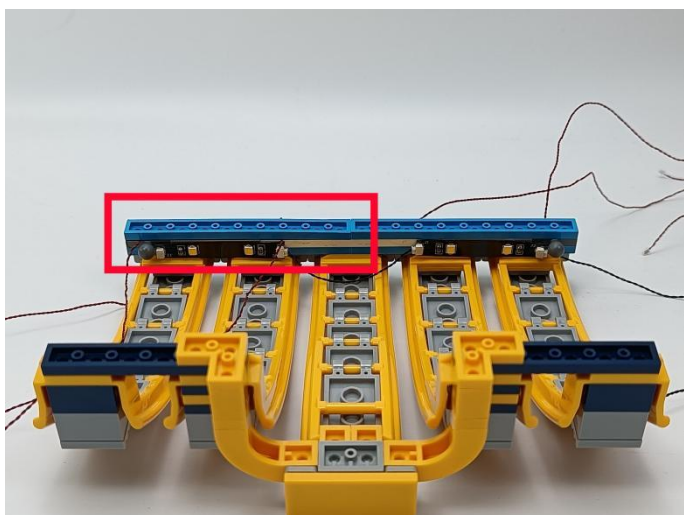
12



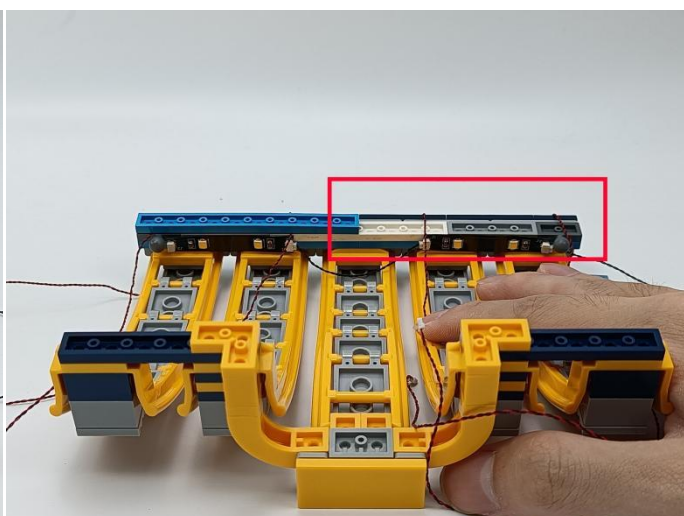
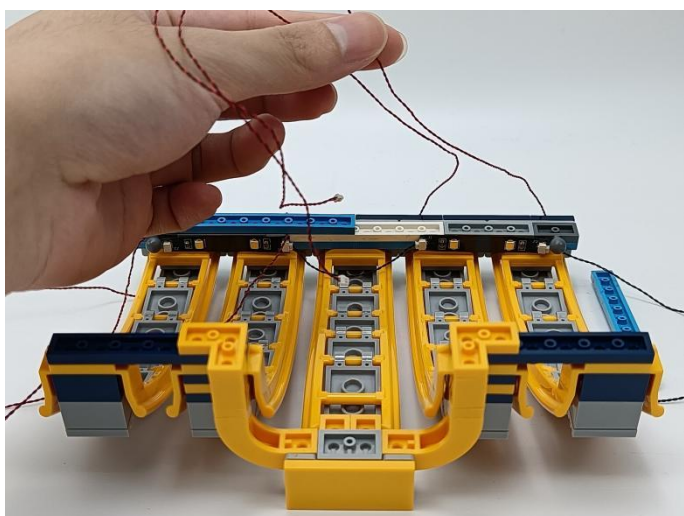
13



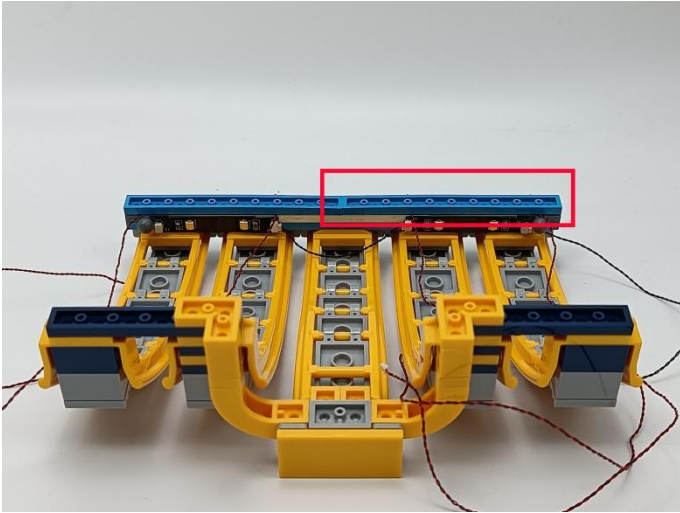
14



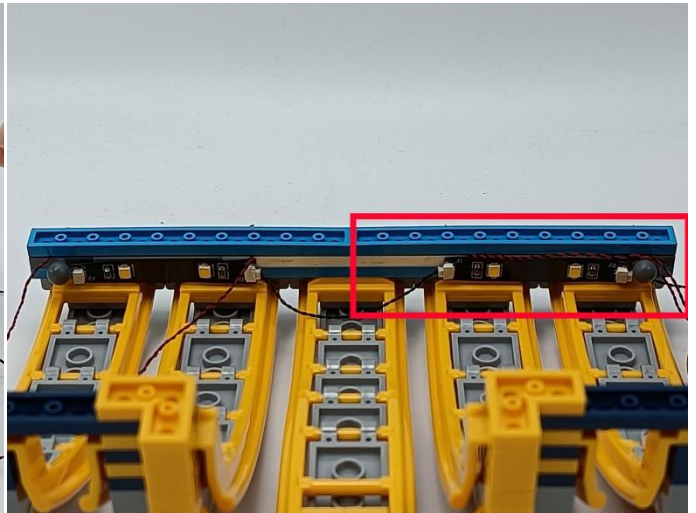
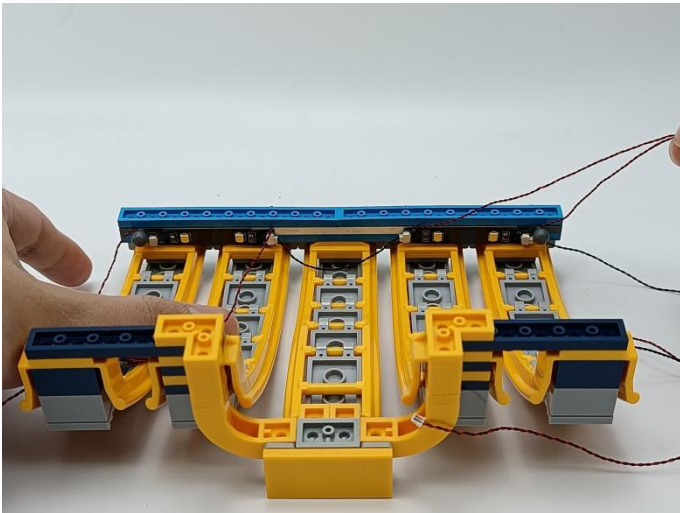
15



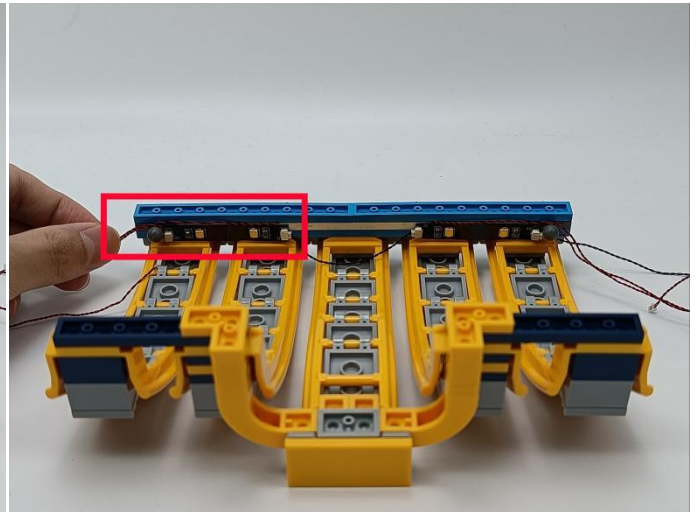
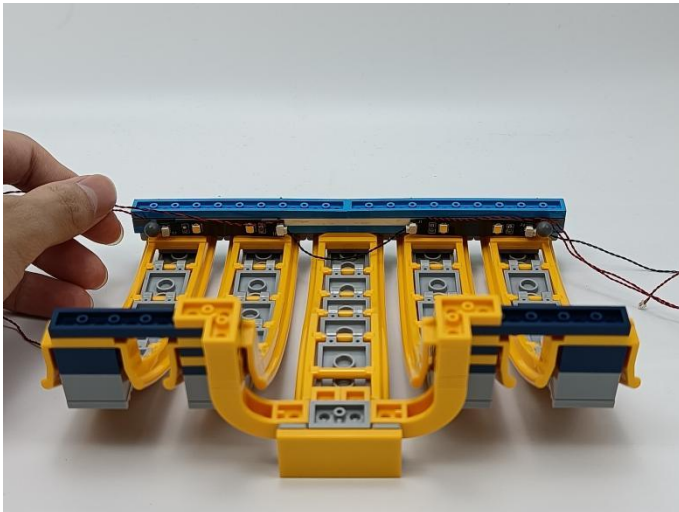
16



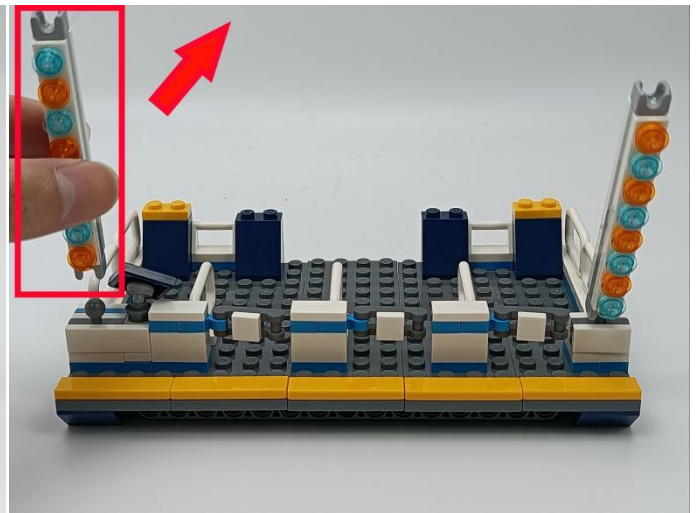
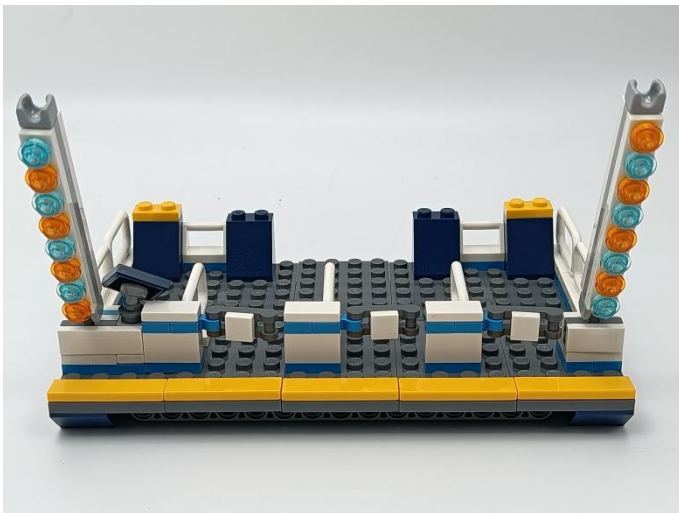
17



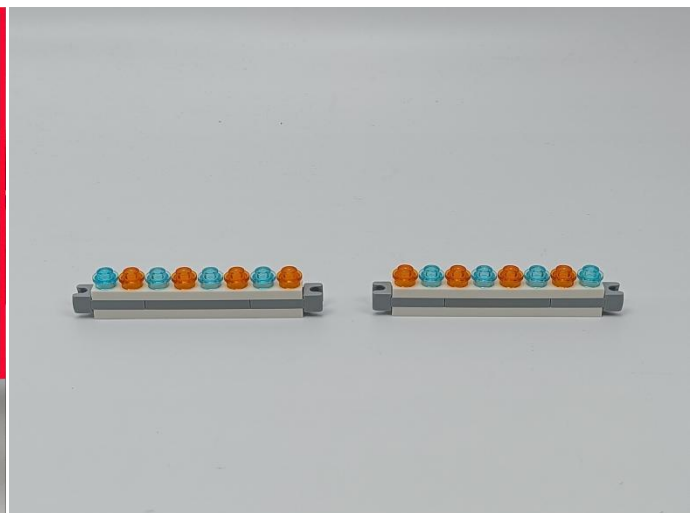
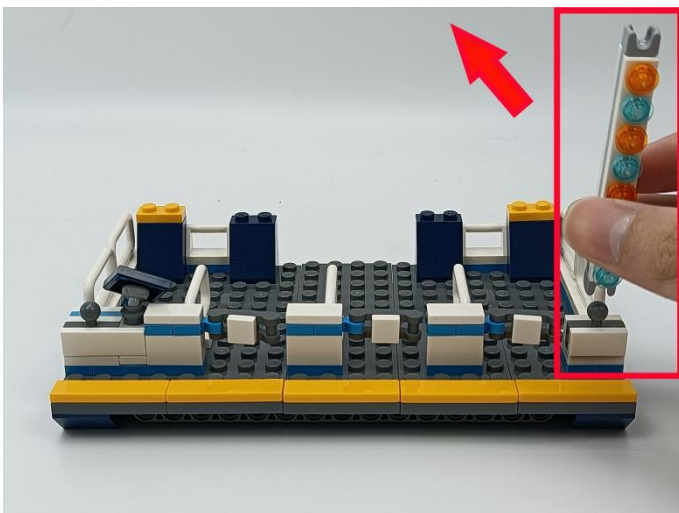
18



19



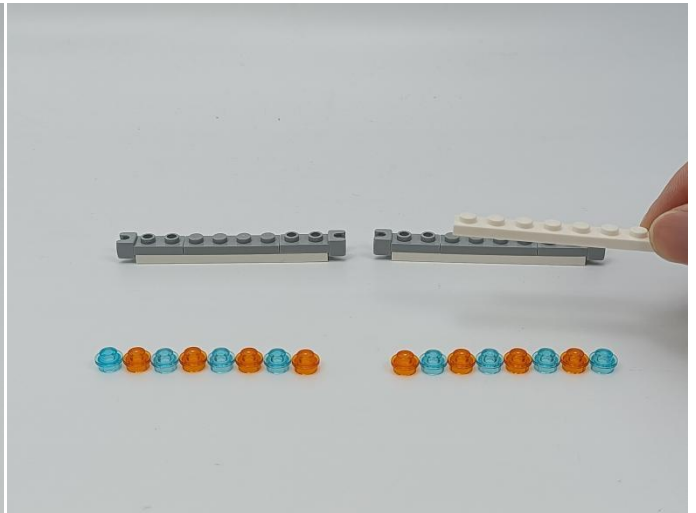
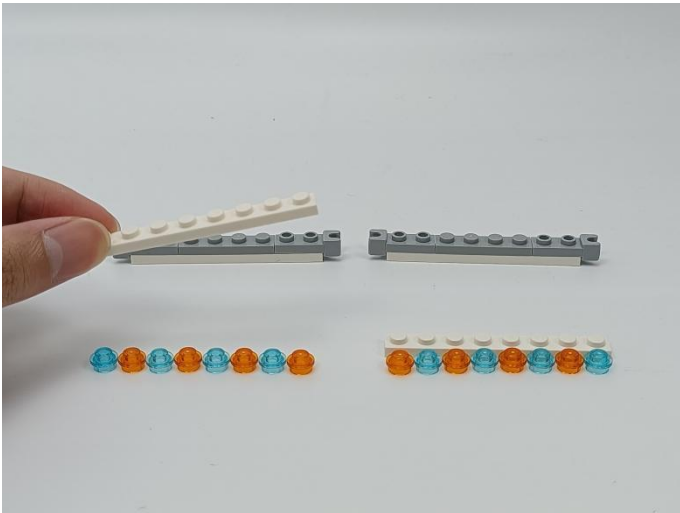
20



21



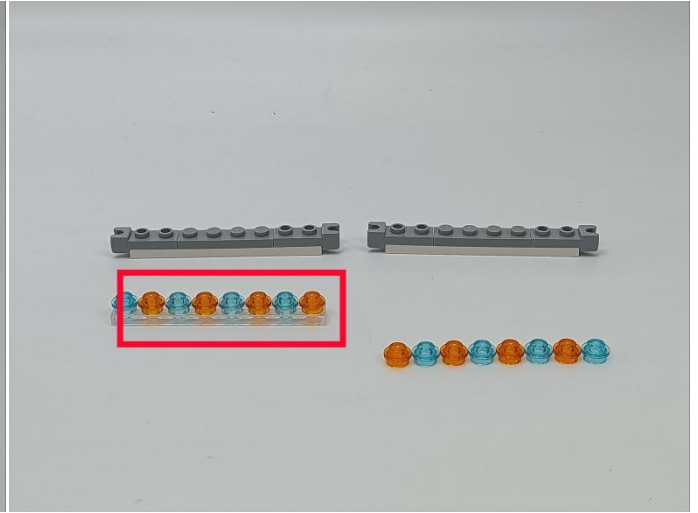
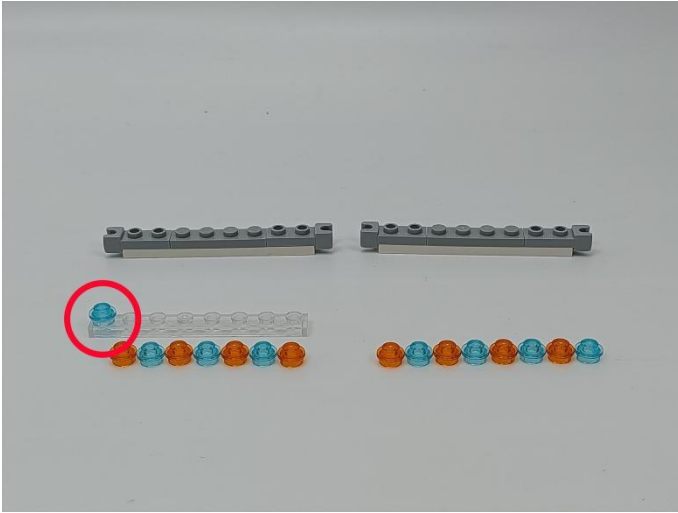
22



23



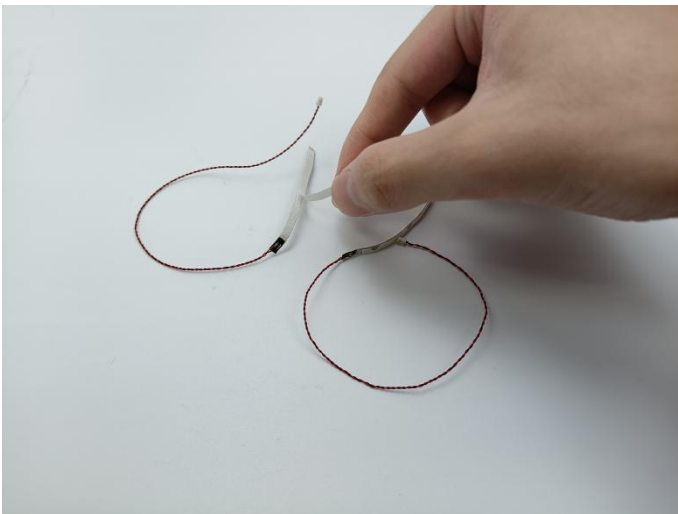
24



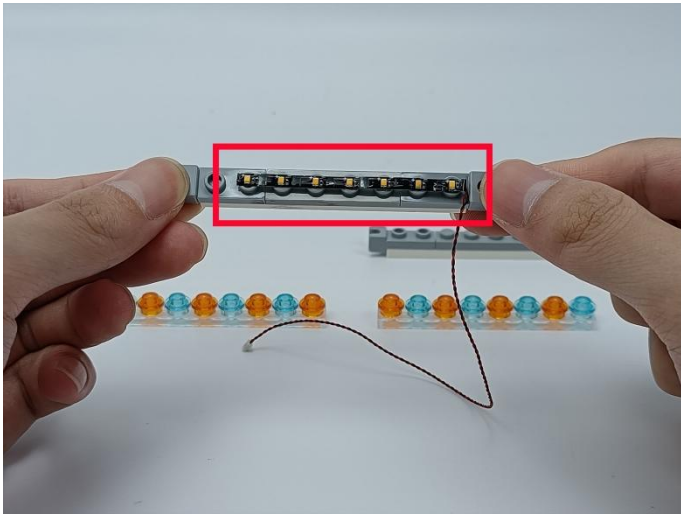
25



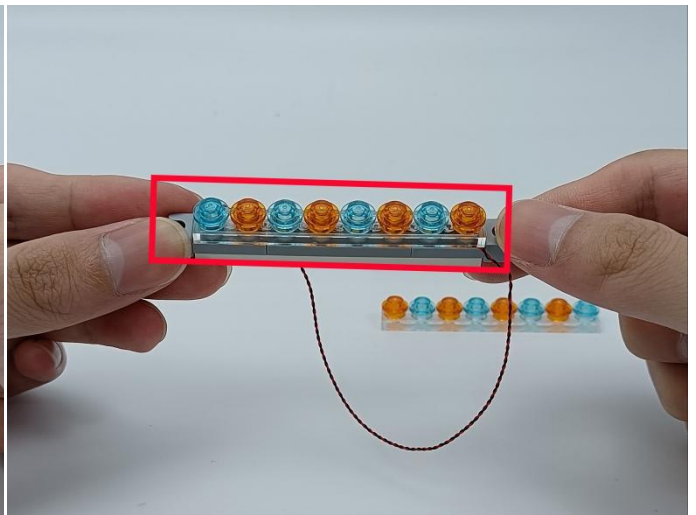
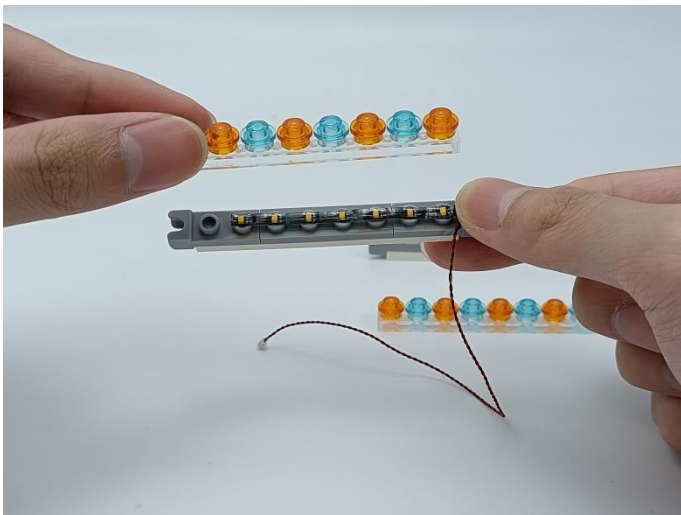
26



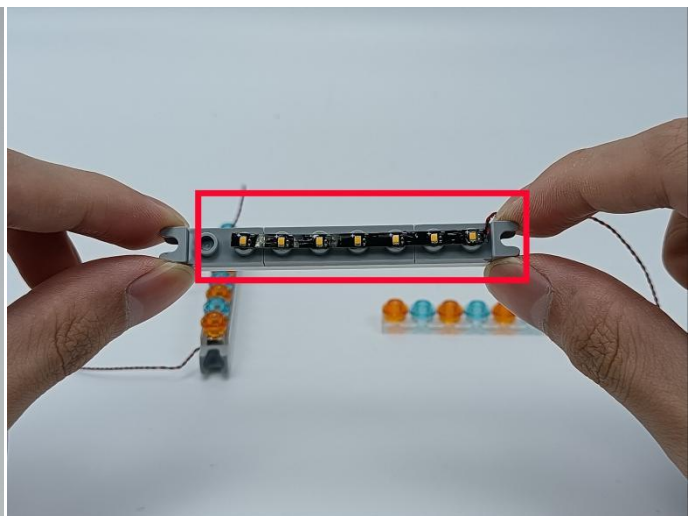
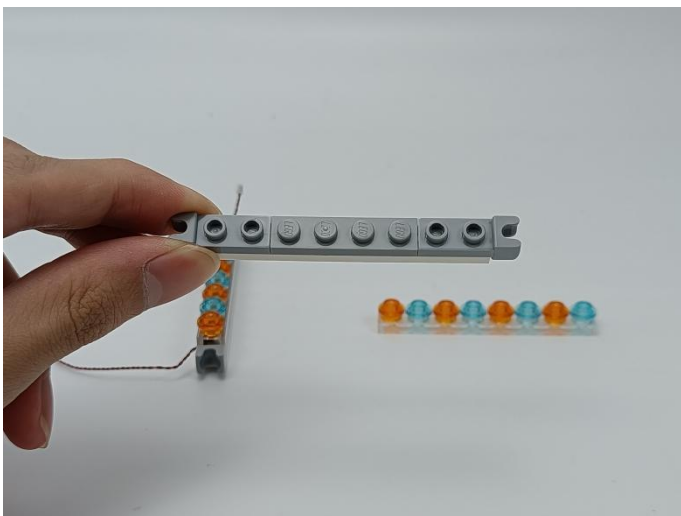
27



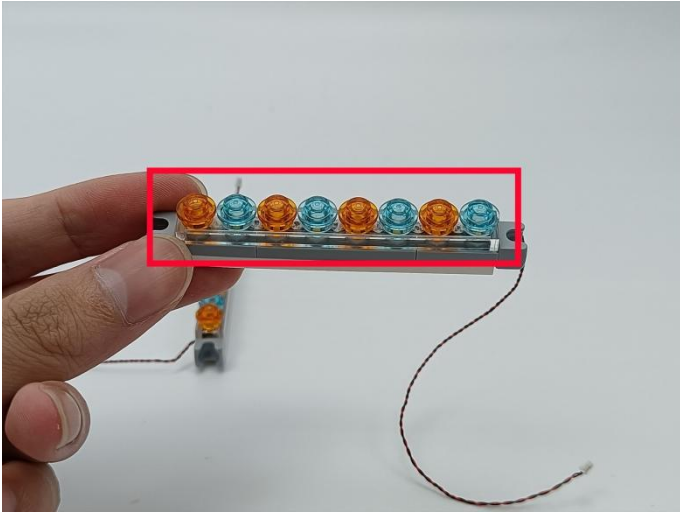
28



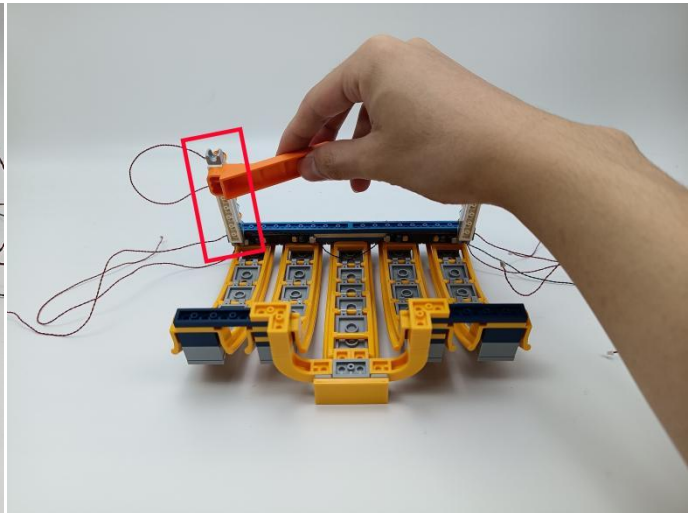
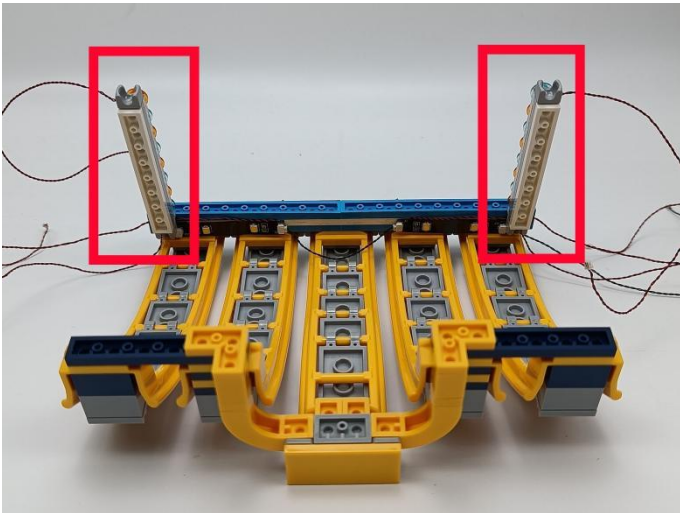
29



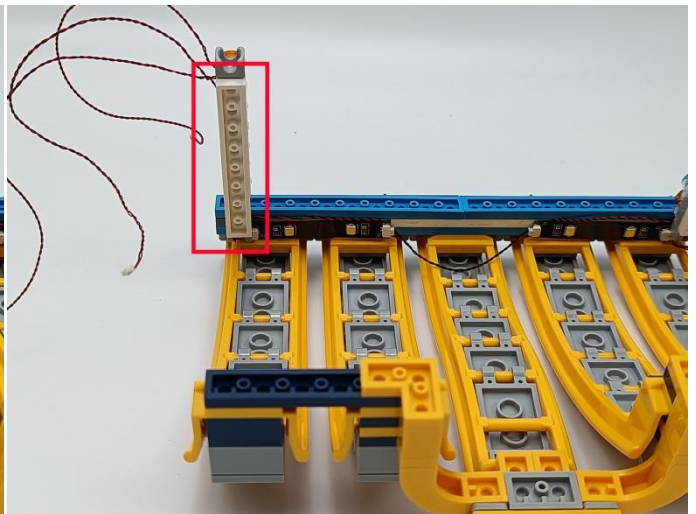
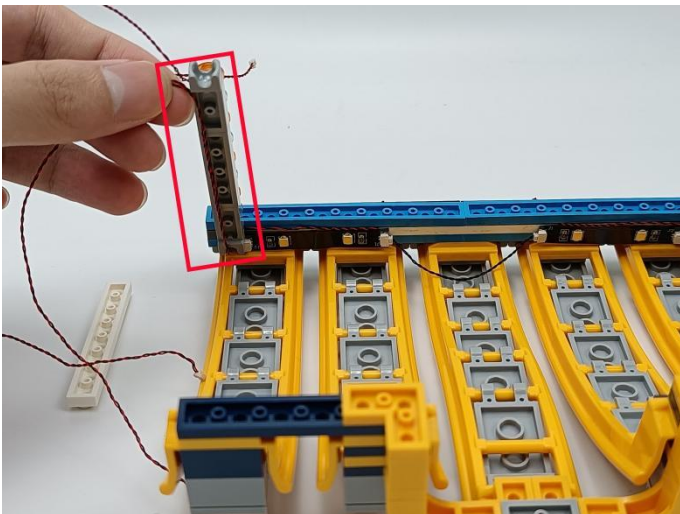
30



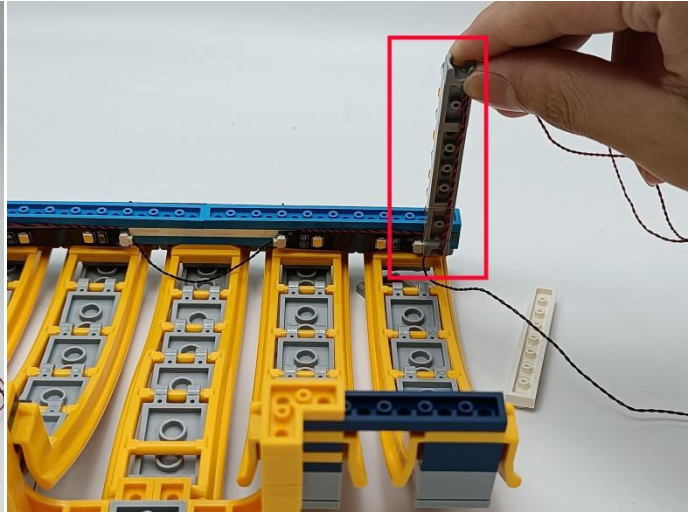
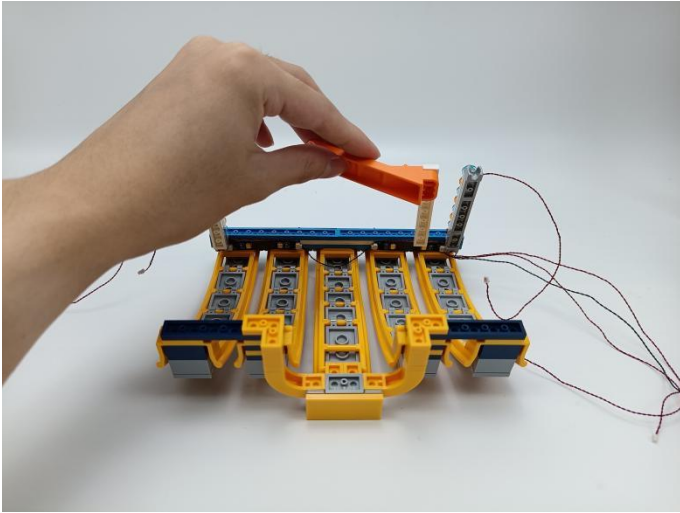
31



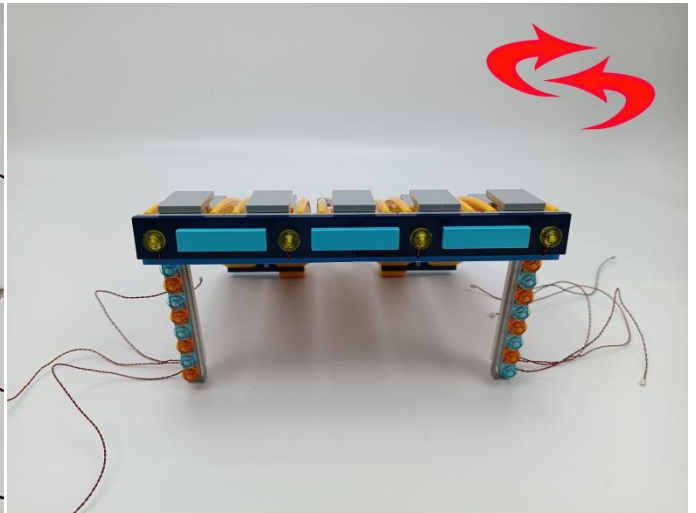
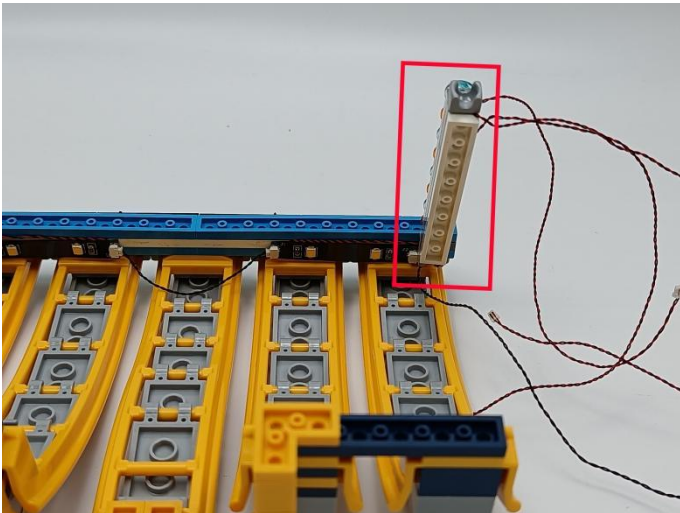
32



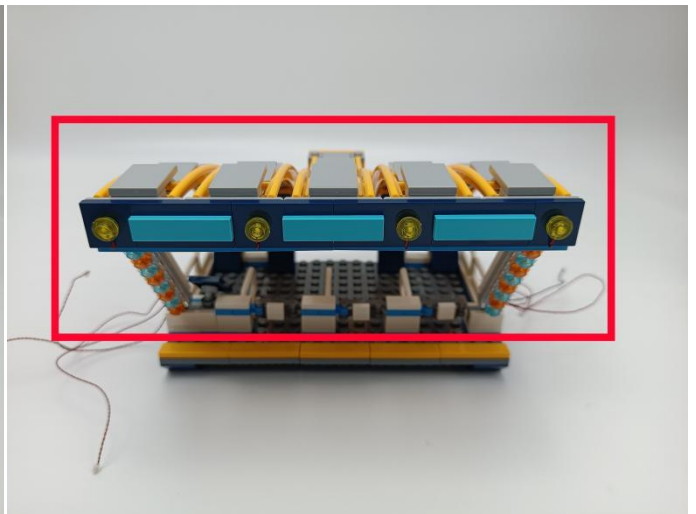
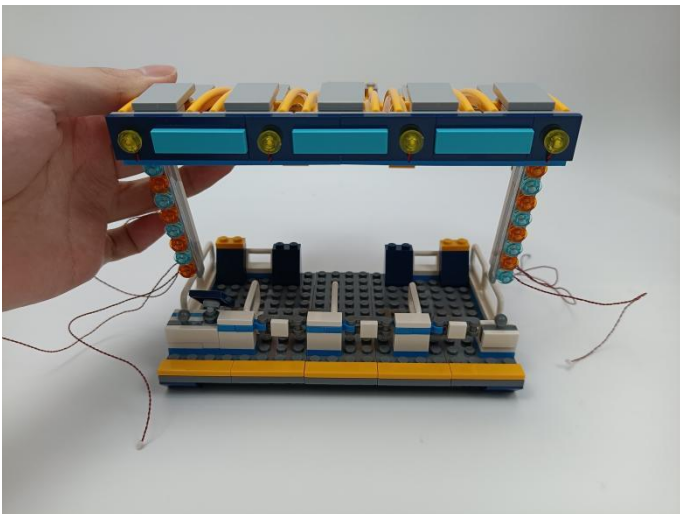
33



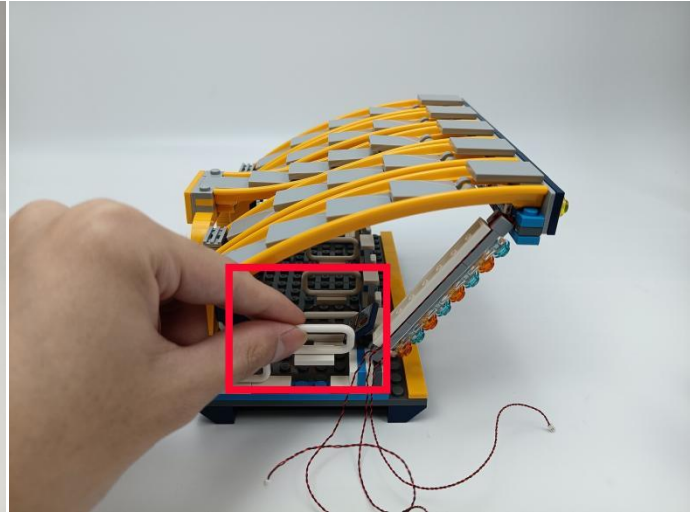
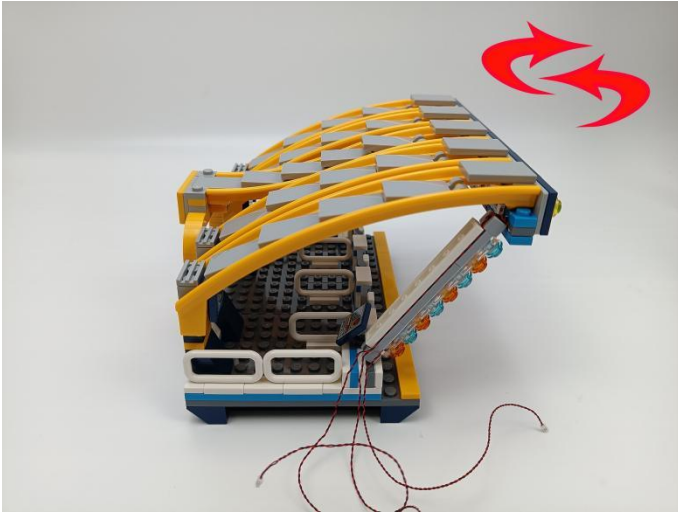
34



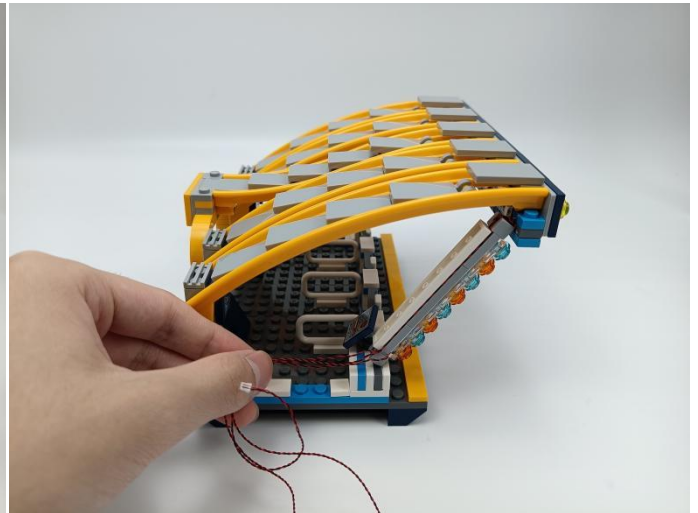
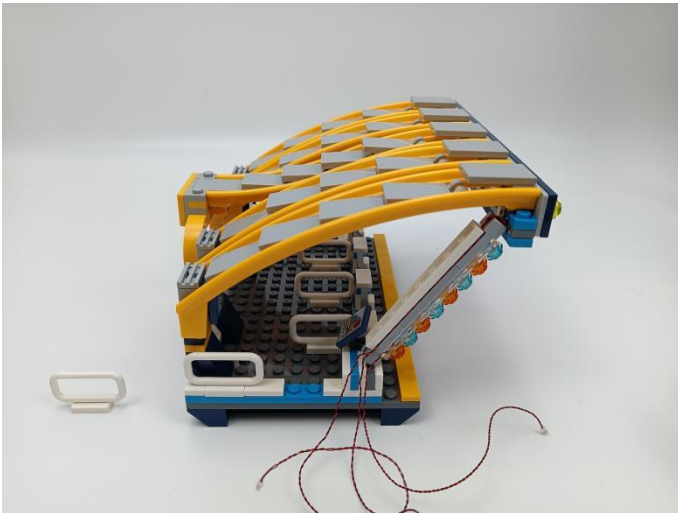
35



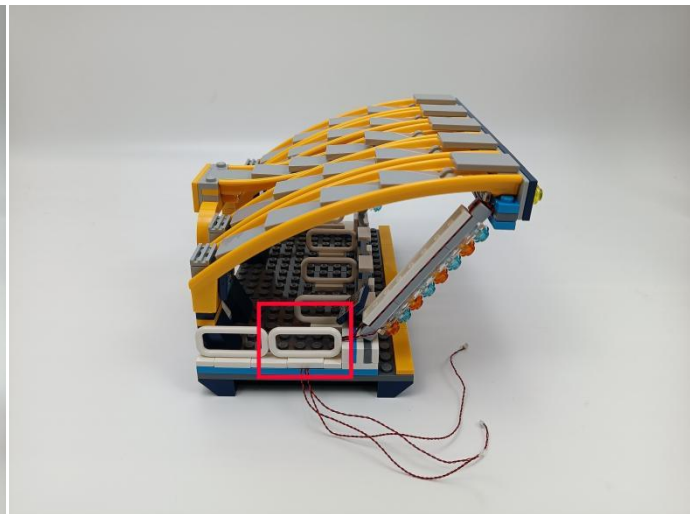
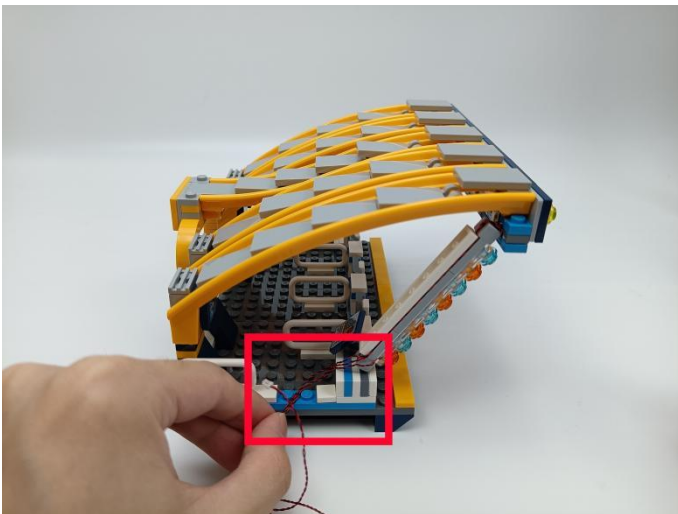
36



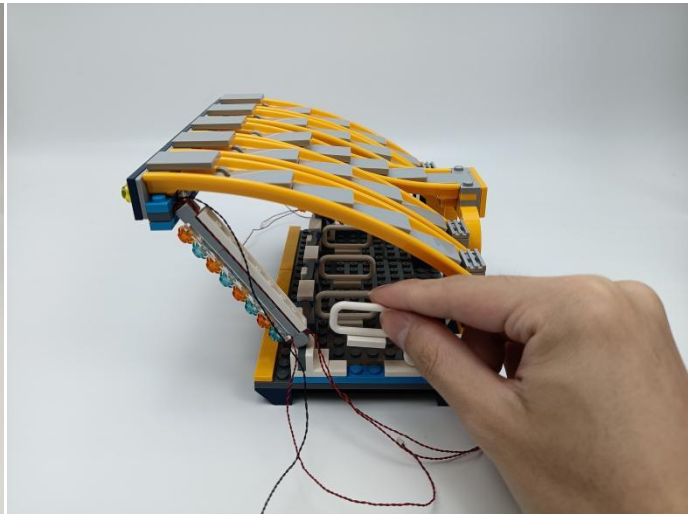
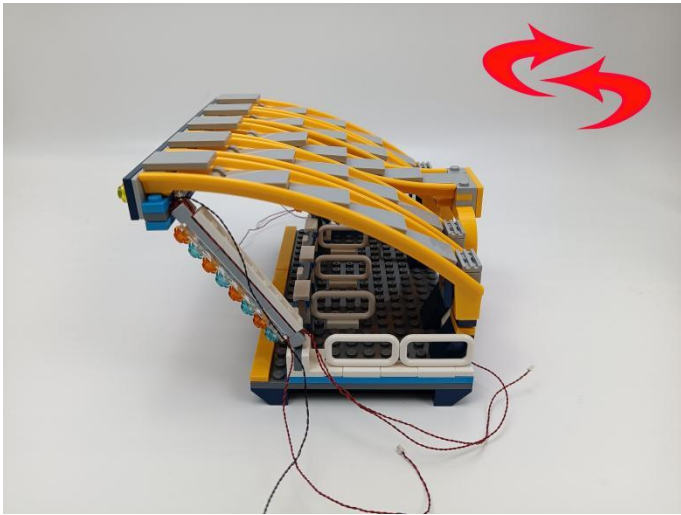
37



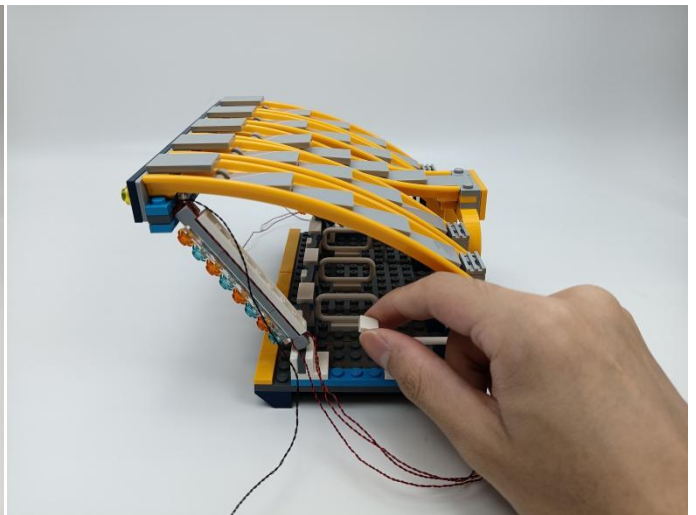
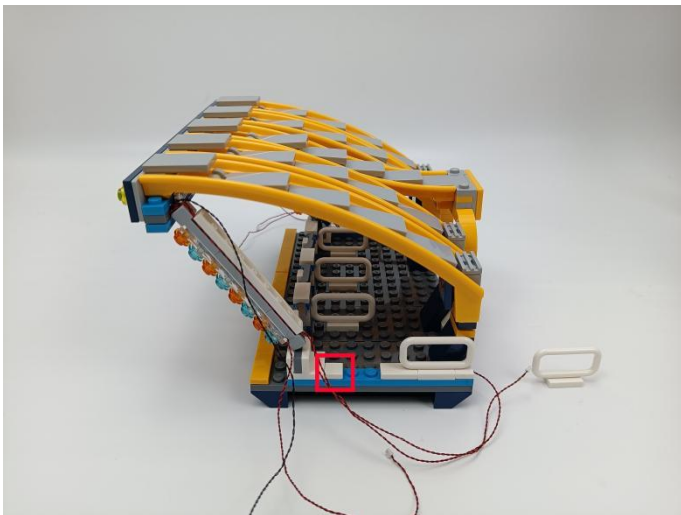
38



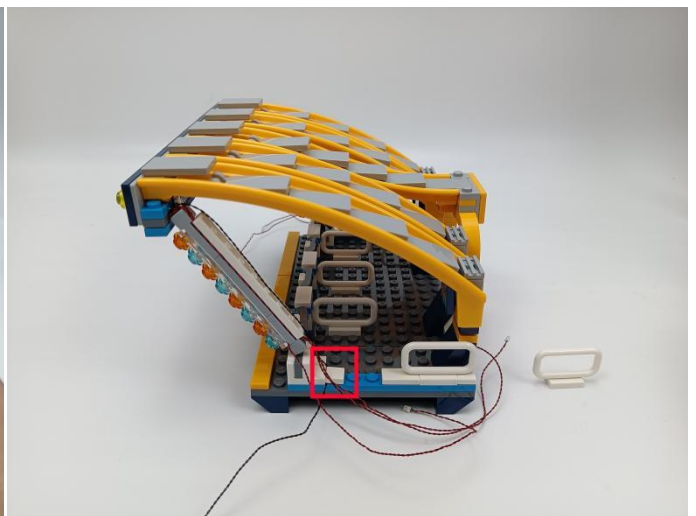
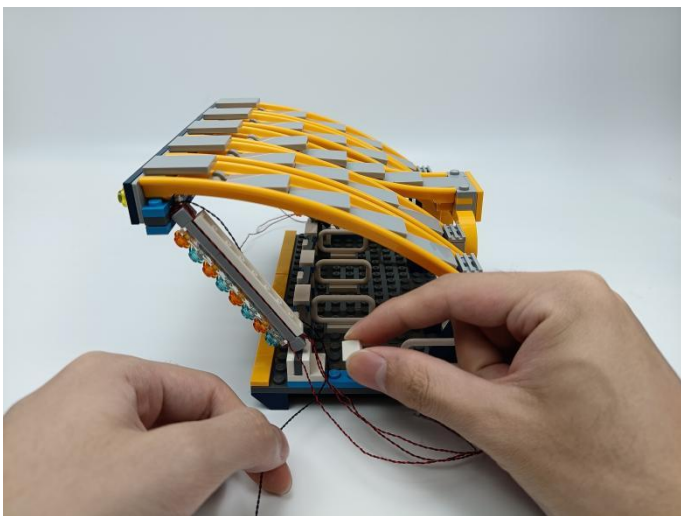
39



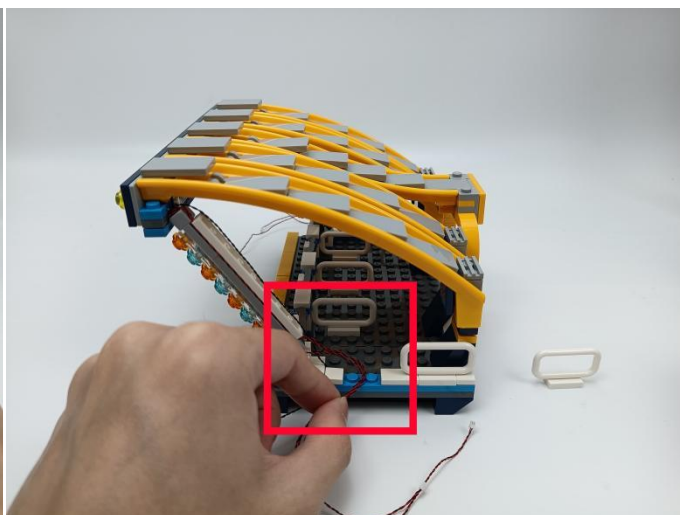
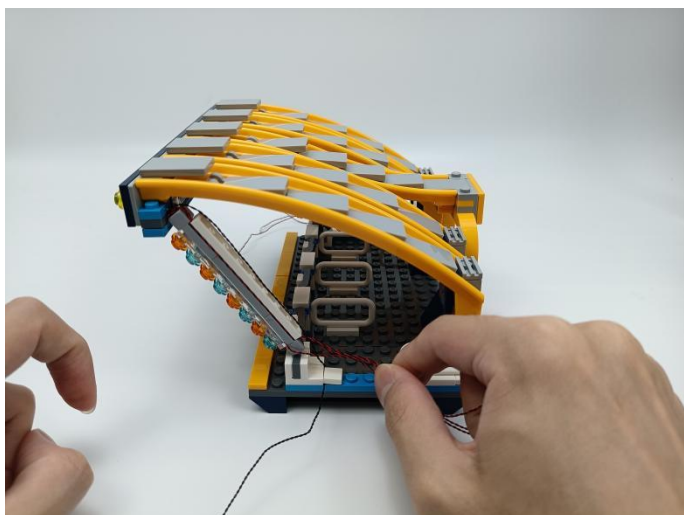
40



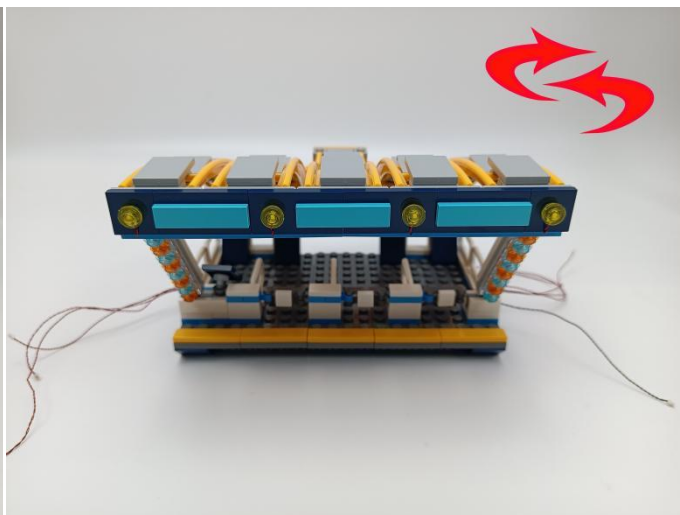
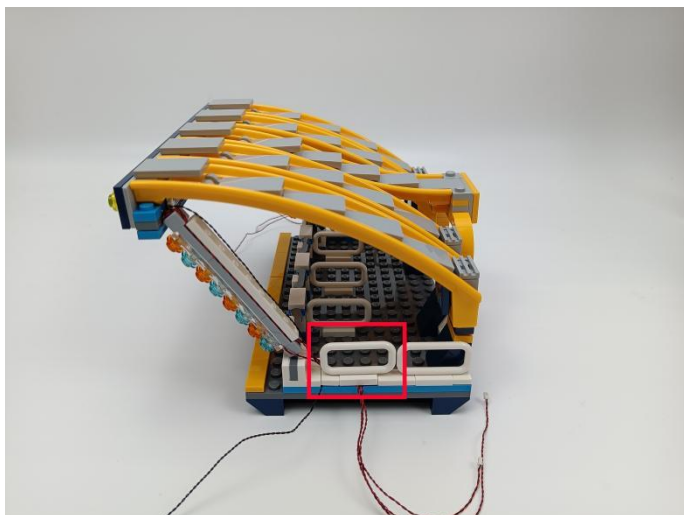
41



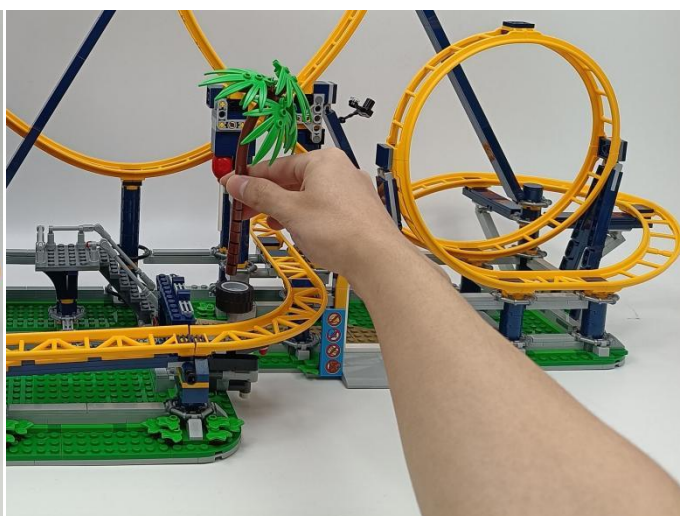
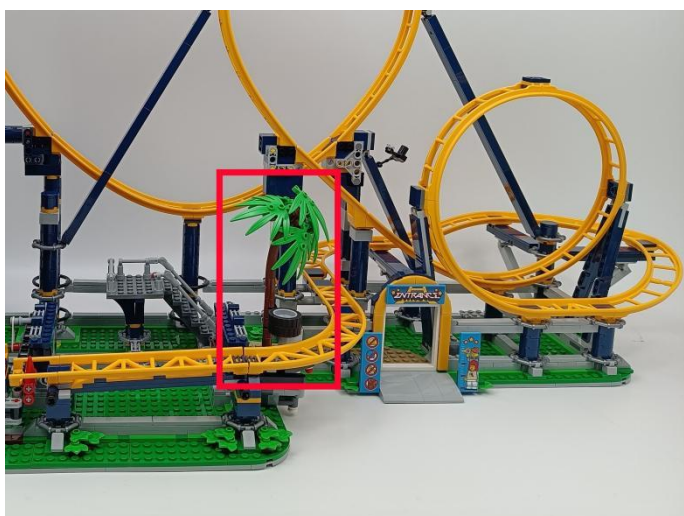
42



43



44



45



46





Tips

The slit on the the plate round 1X1 are hand-made to avoid squeeze the wire and cause short circuit and abnormal heat during installation.

The plate without slit:

The plate without slit:

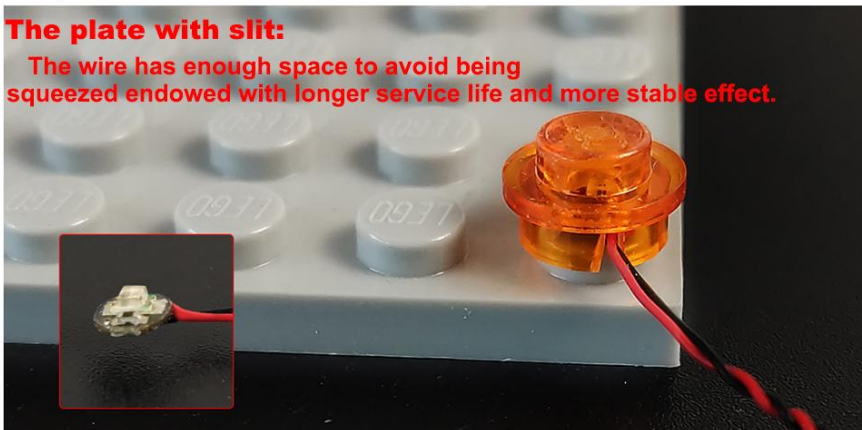
The squeeze causes the protective layer of the wire to be torn apart, the positive and negative wires touch together, and the set is short-circuited and the hot or wire is crushed, the wire to be disconnected and don't work.



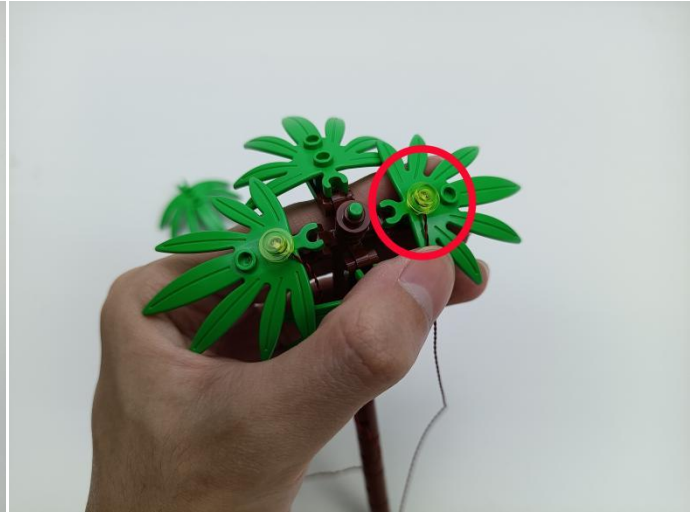
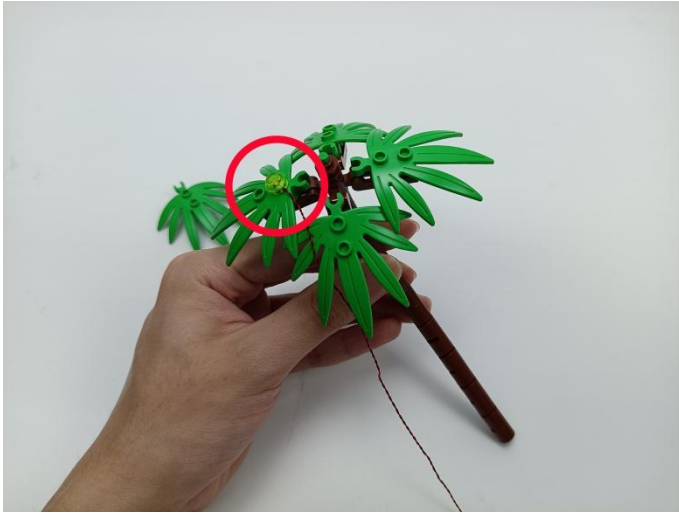
The plate with slit:

The plate with slit:

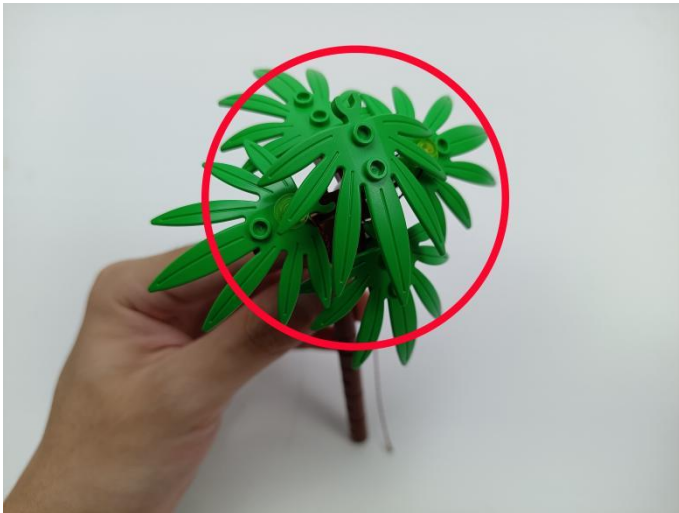
The wire has enough space to avoid being squeezed endowed with longer service life and more stable effect.



48



49



50



51



52



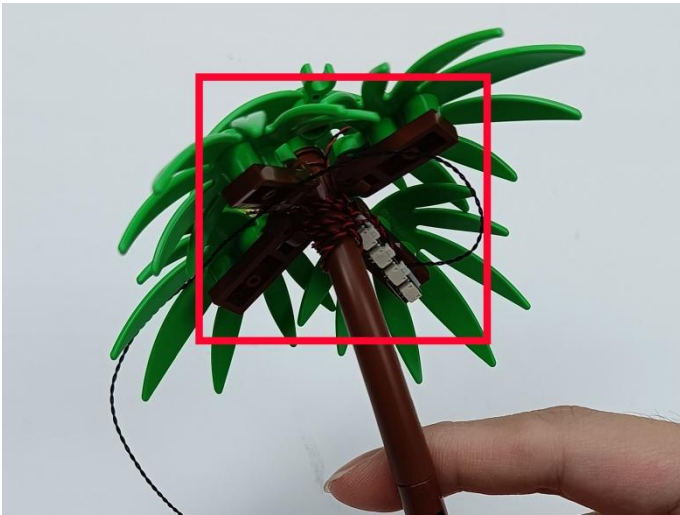
53



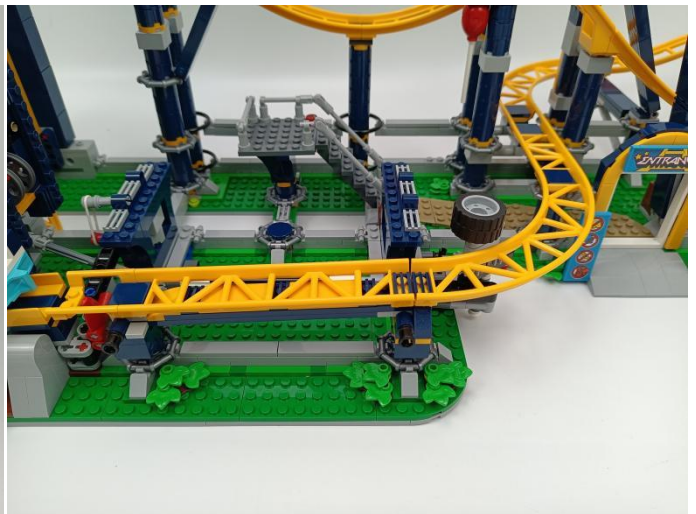
54



55

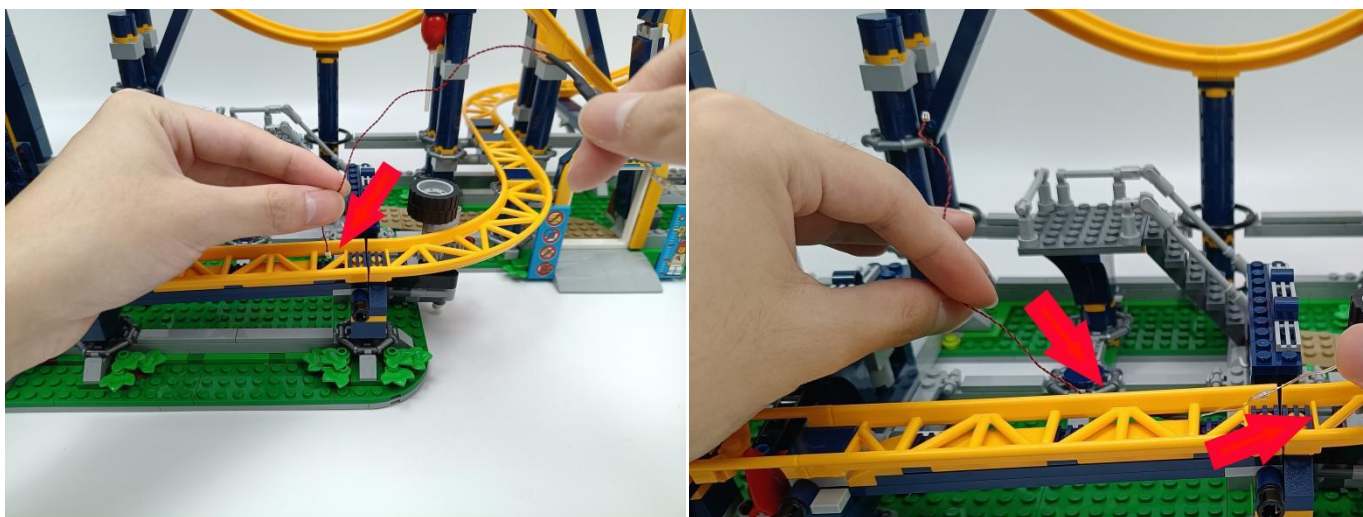


56

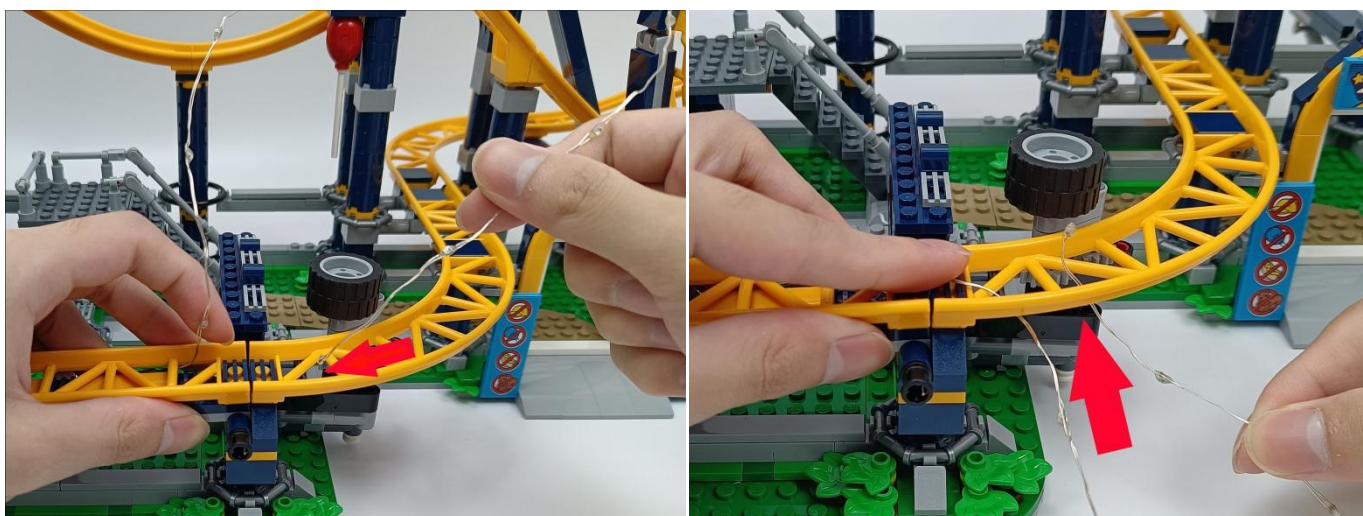




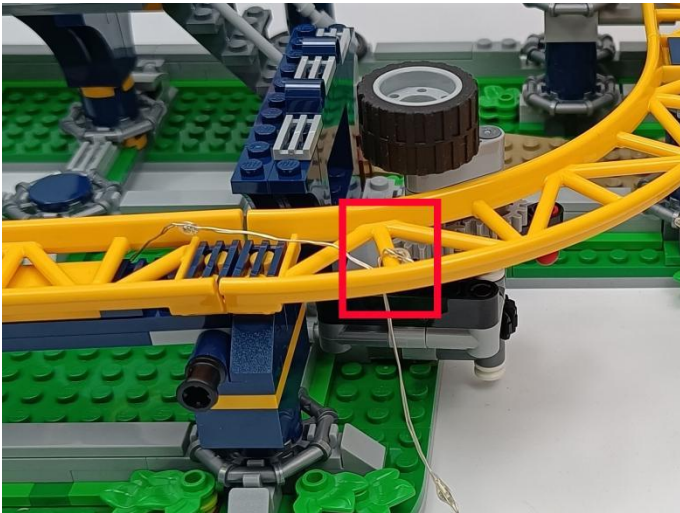
Pass the lighting wire through the gap in the track.



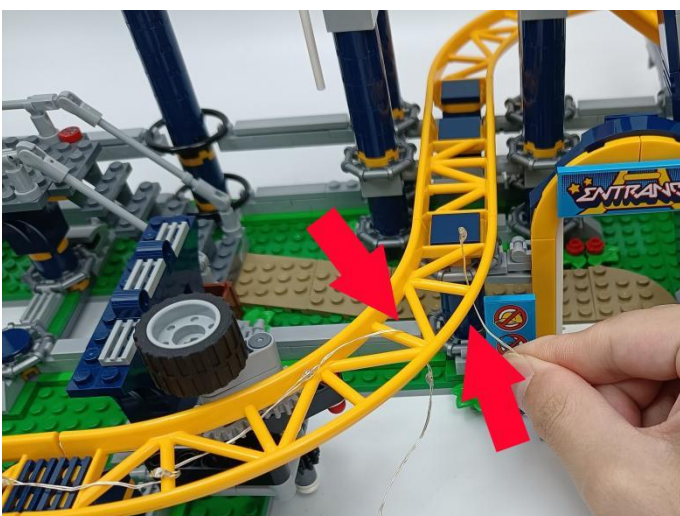
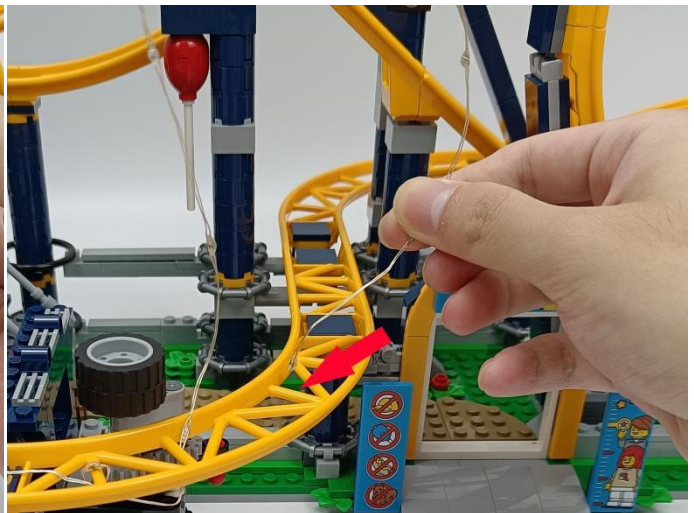
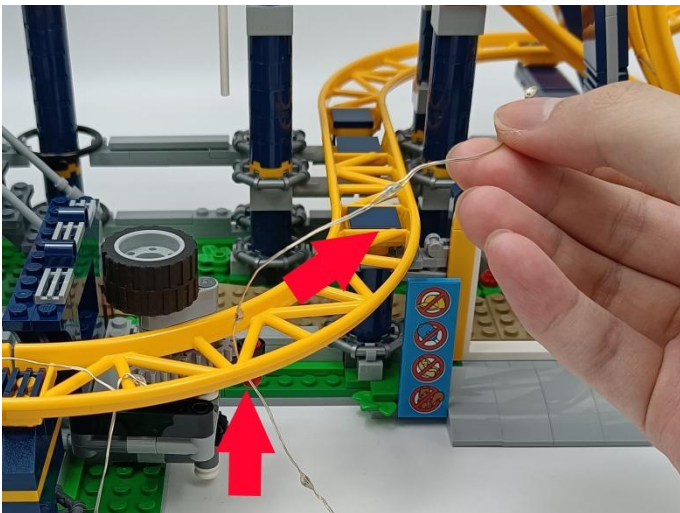
Wrap the remaining lighting wire around the track.

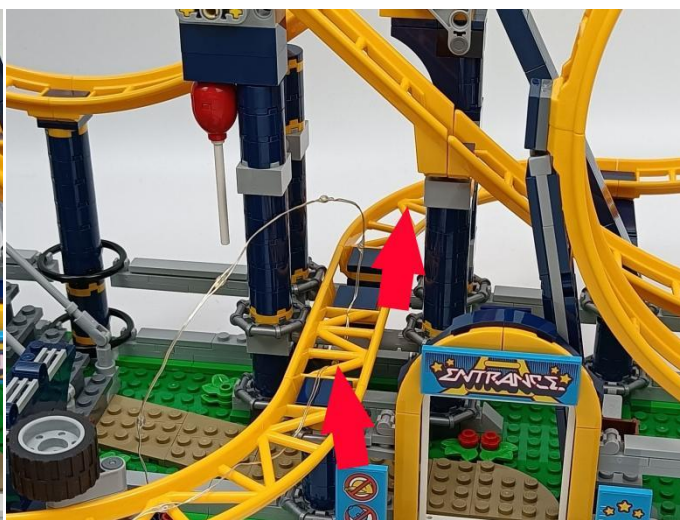
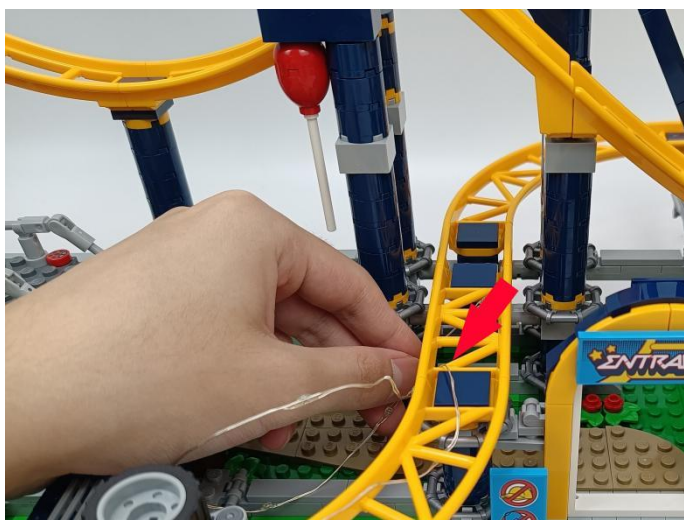


Wrap a circle around the position selected in the picture to secure the lighting wire.

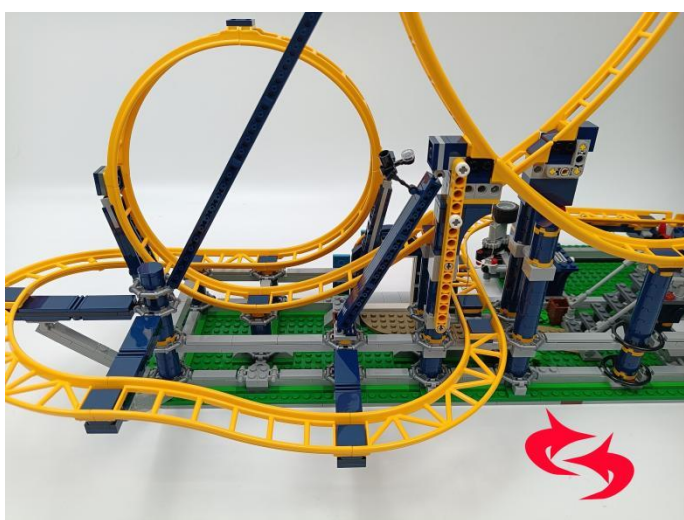


58. Wrap the remaining lighting wire around the track.

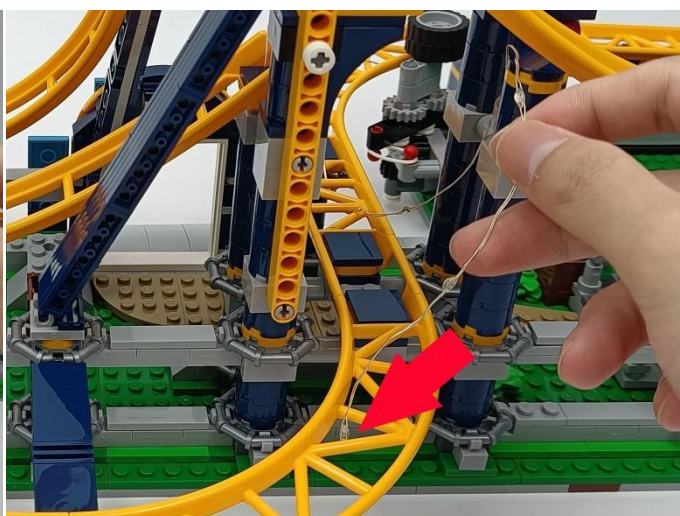
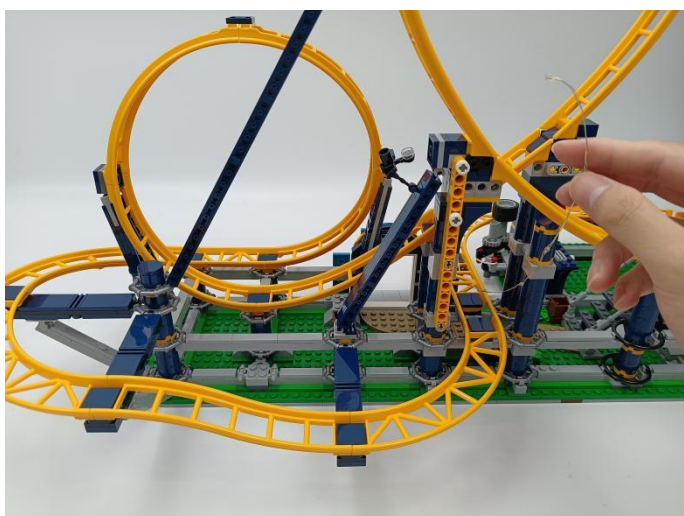




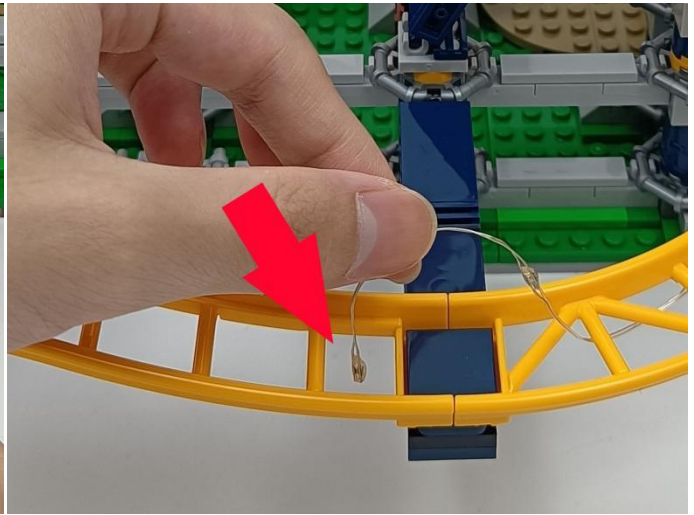
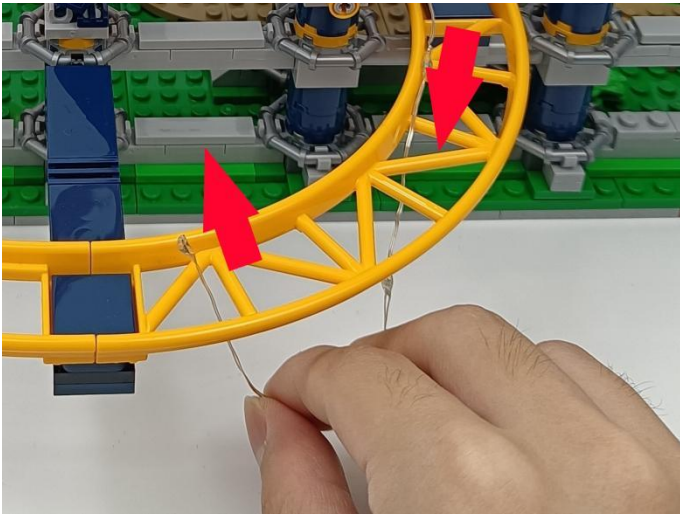
59



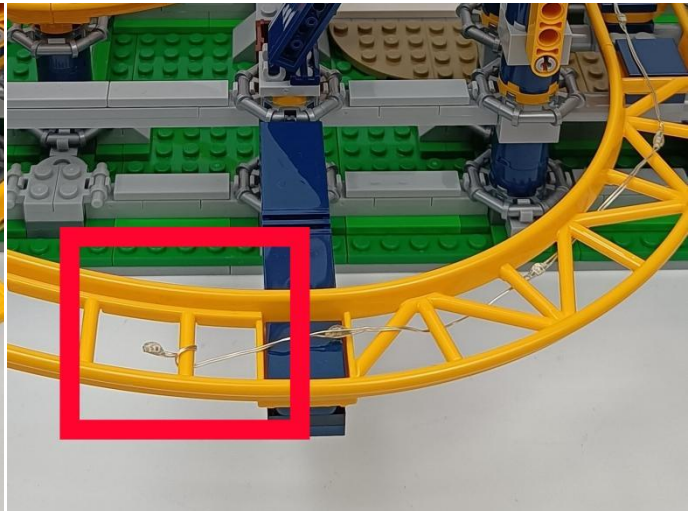
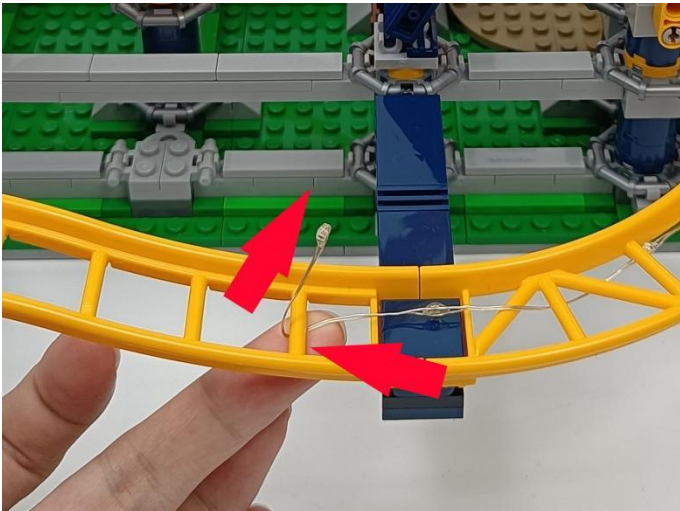
60. Pass the lighting wire through the gap in the track.



61.Wrap the remaining lighting wire around the track.

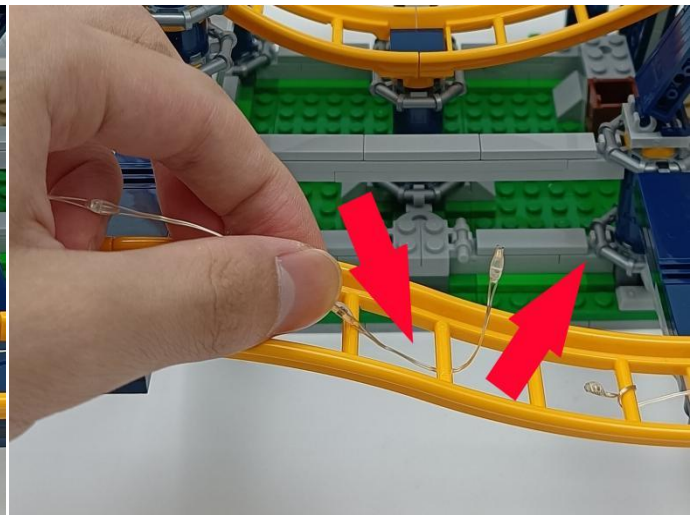
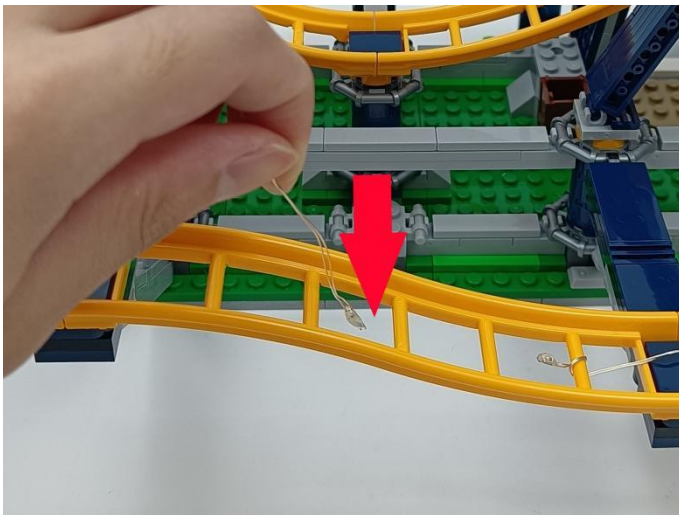


62.Wrap a circle around the position selected in the picture to secure the lighting wire.

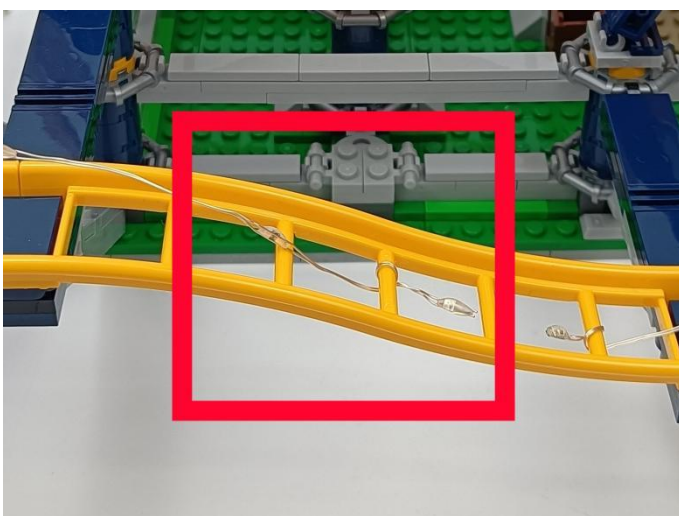




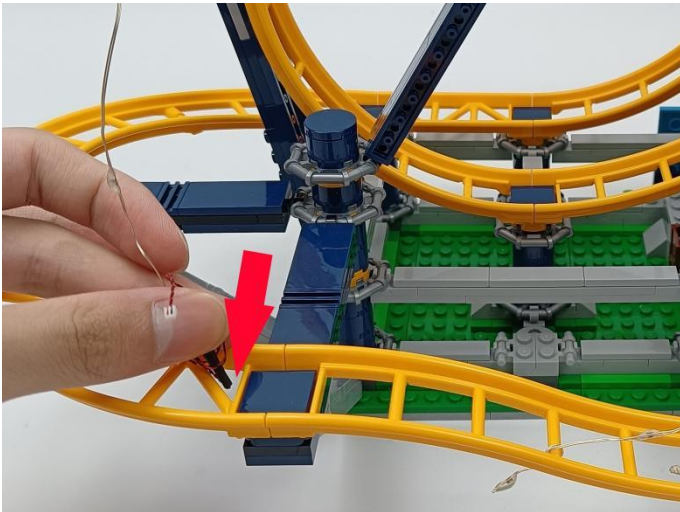
64. Pass the lighting wire through the gap in the track.



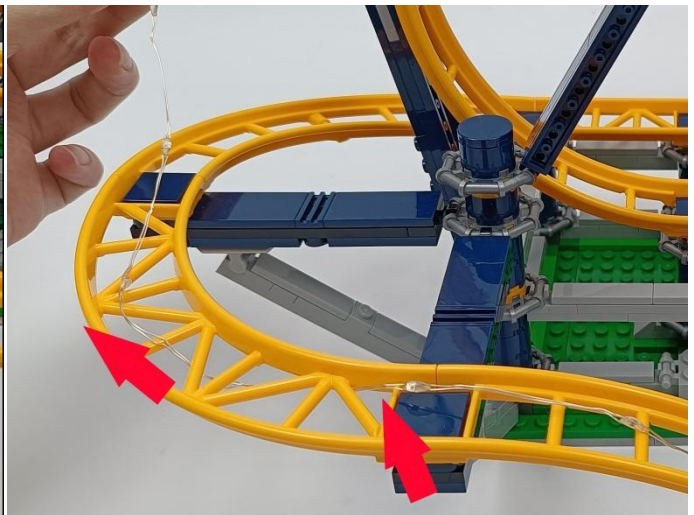
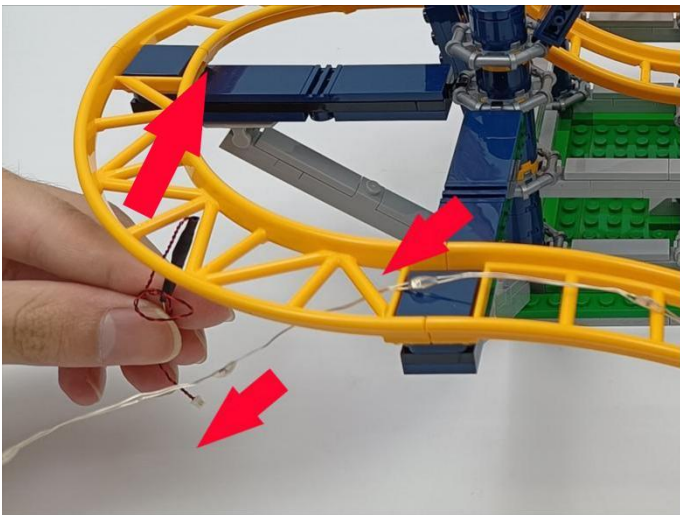
64. Wrap a circle around the position selected in the picture to secure the lighting wire.



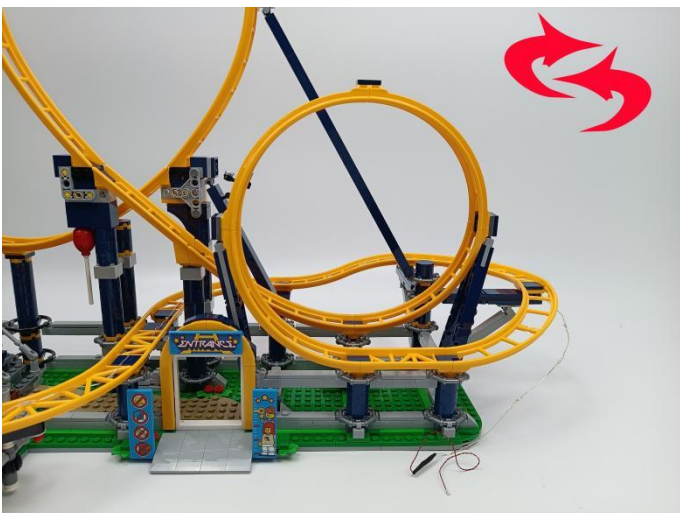
65. Pass the lighting wire through the gap in the track.



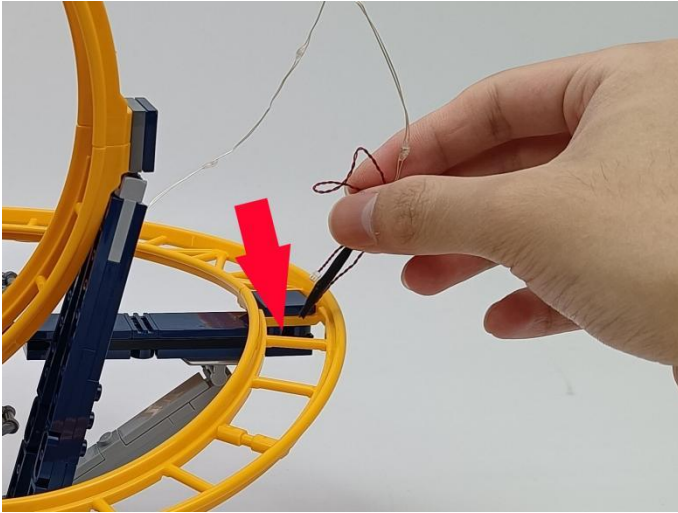
66. Wrap the remaining lighting wire around the track.



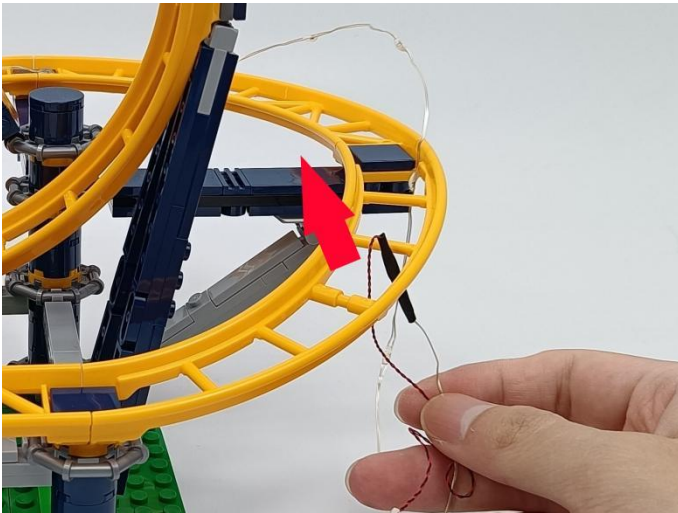
67



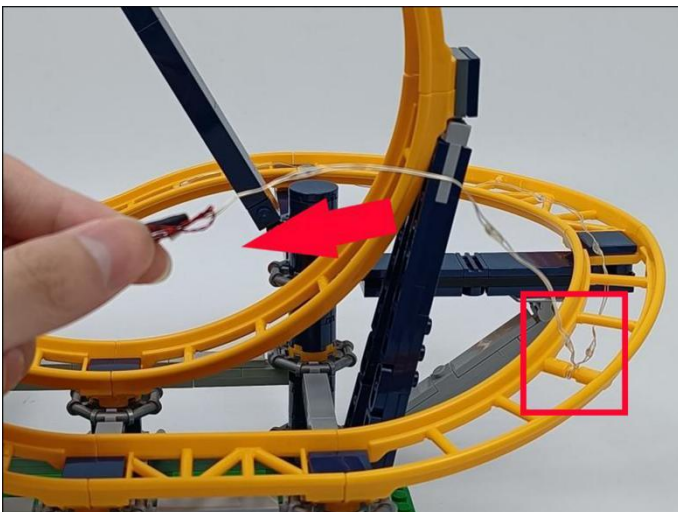
68. Pass the lighting wire through the gap in the track.



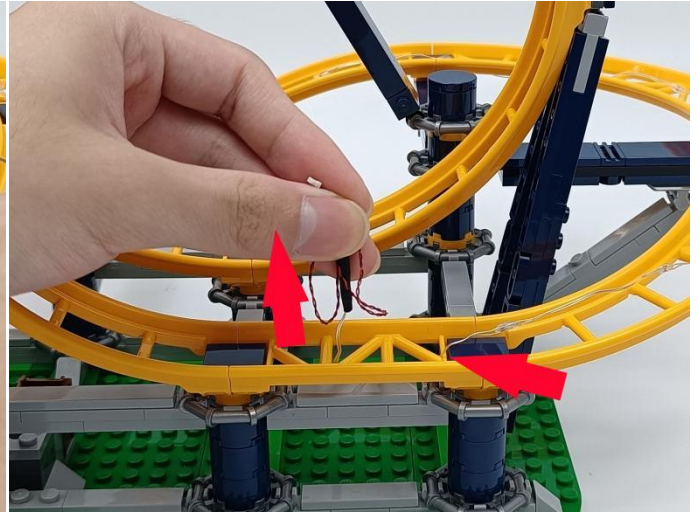
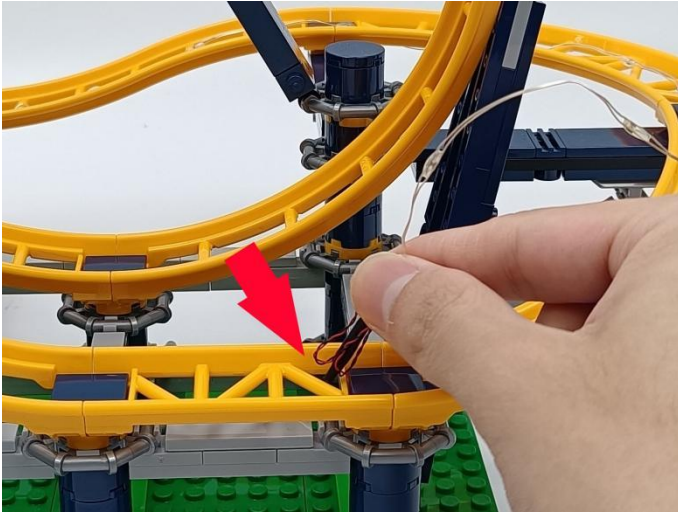
69. Wrap the remaining lighting wire around the track.



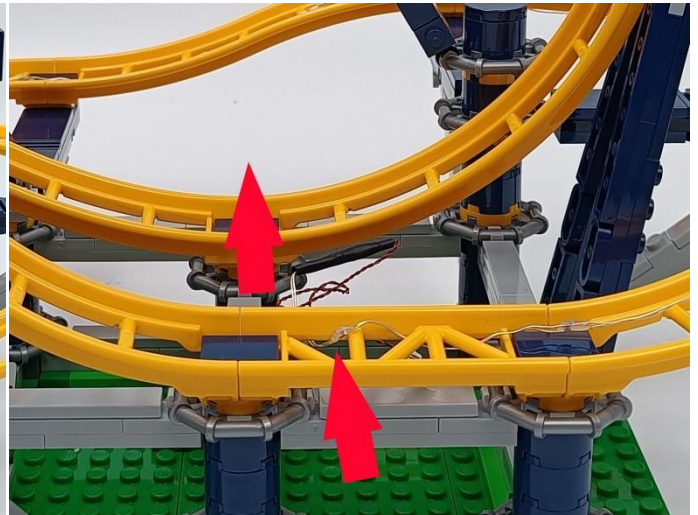
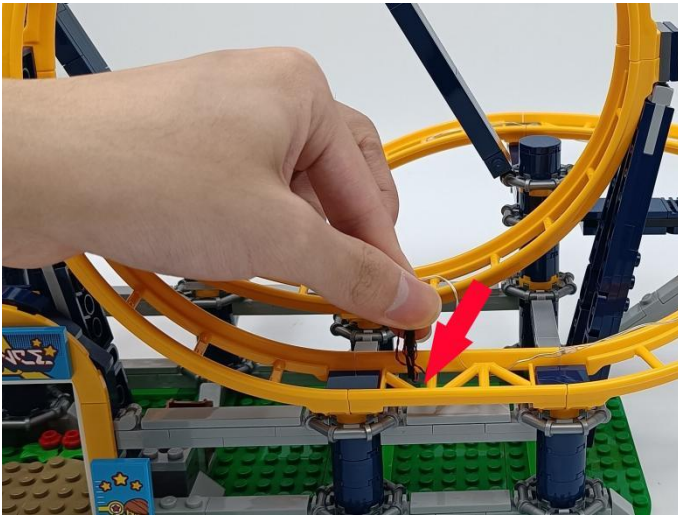
70. Wrap a circle around the position selected in the picture to secure the lighting wire.



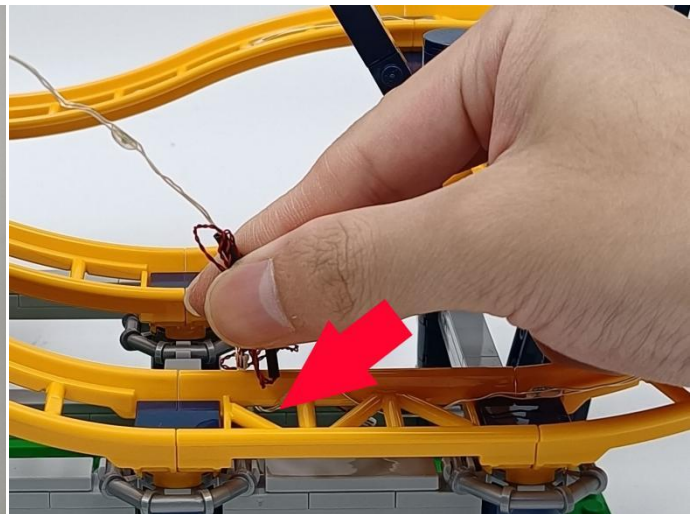
71. Pass the lighting wire through the gap in the track.



72. Wrap the remaining lighting wire around the track.



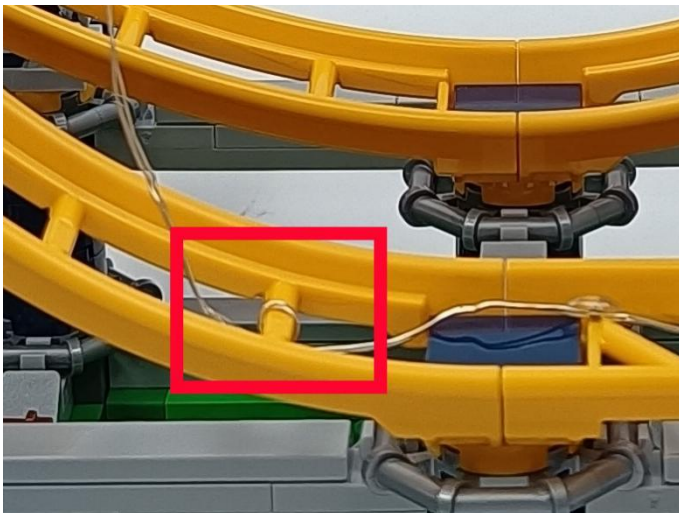
73. Pass the lighting wire through the gap in the track.



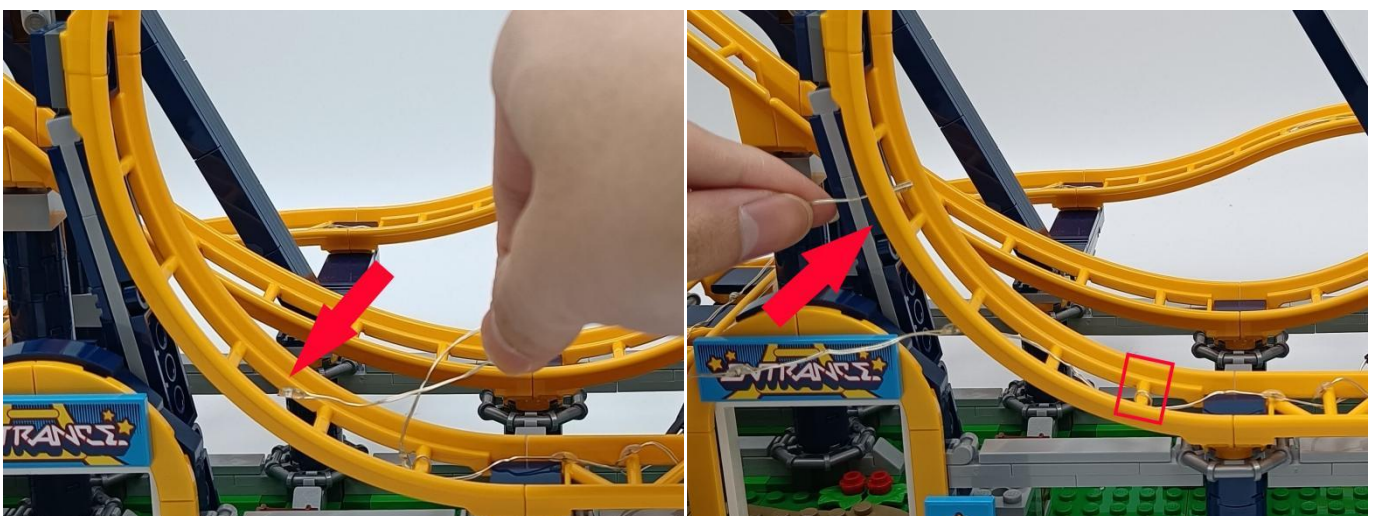
74.Wrap the remaining lighting wire around the track.

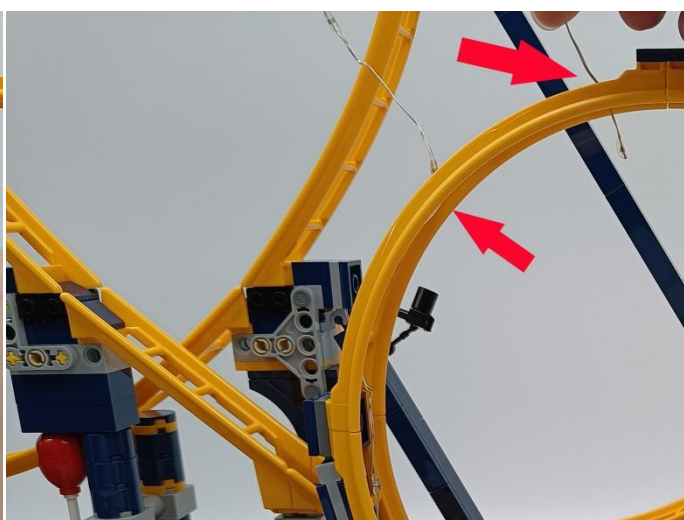
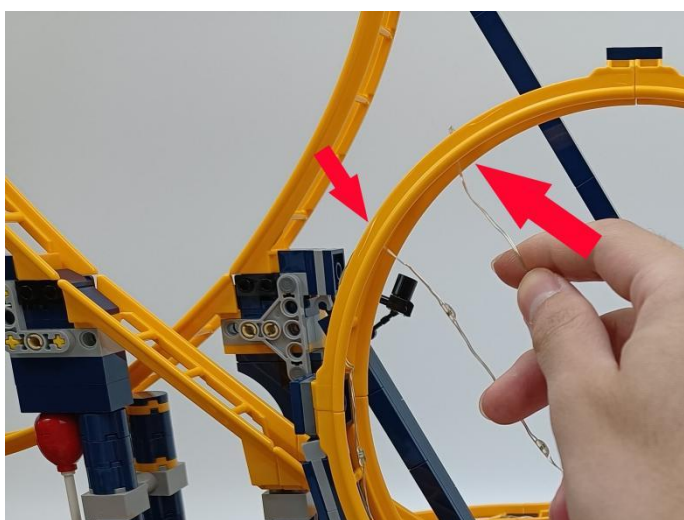
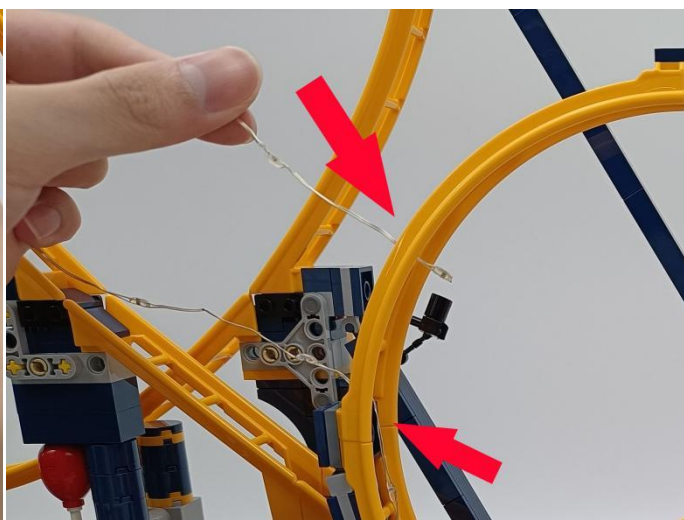
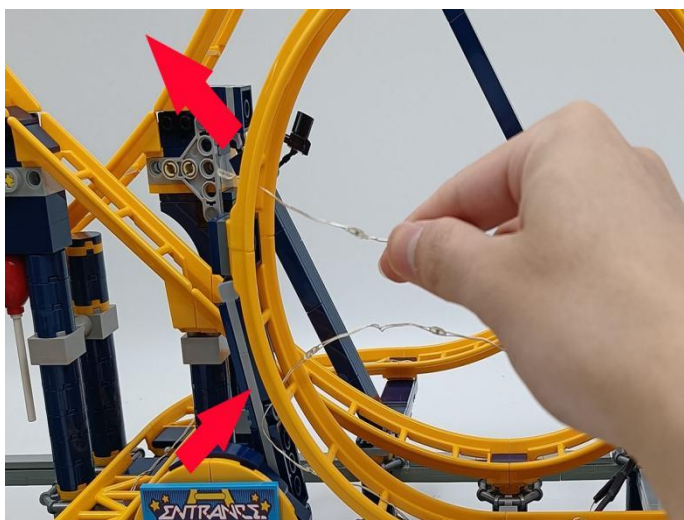


75.Wrap a circle around the position selected in the picture to secure the lighting wire.

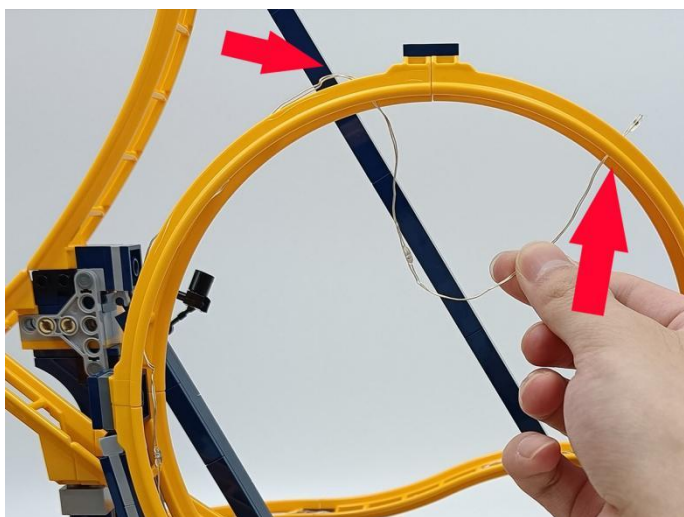


76.Wrap the remaining lighting wire around the track.





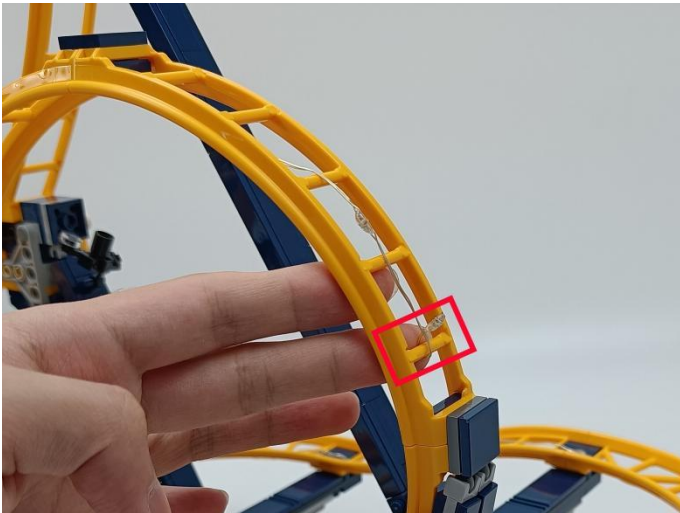
77. Wrap the remaining lighting wire around the track.



78



79. Wrap a circle around the position selected in the picture to secure the lighting wire.



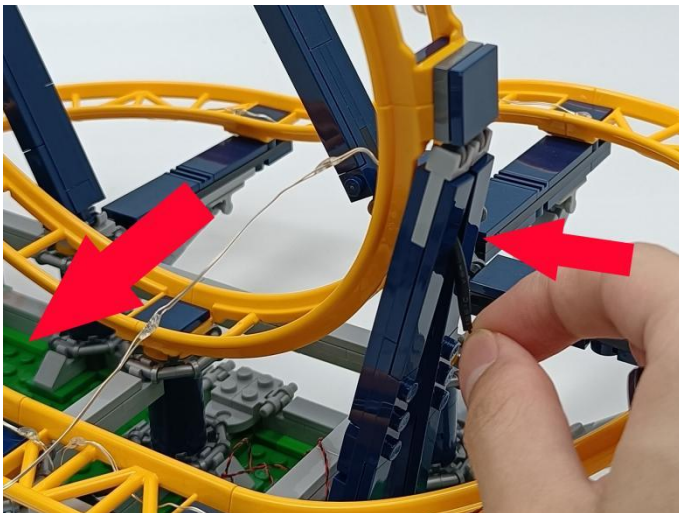
80



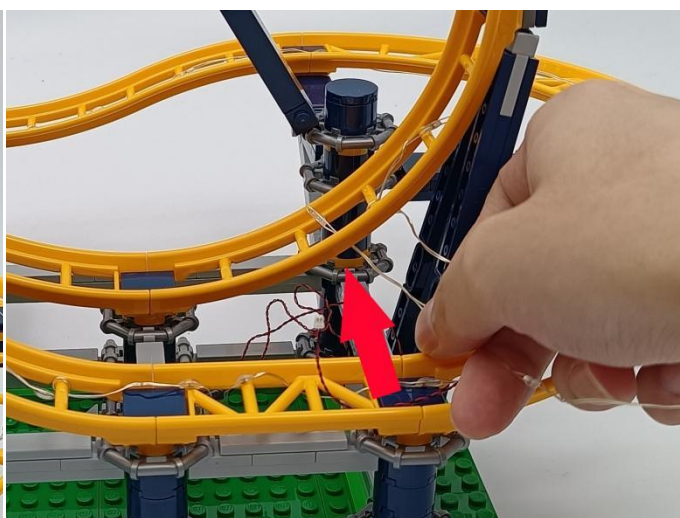
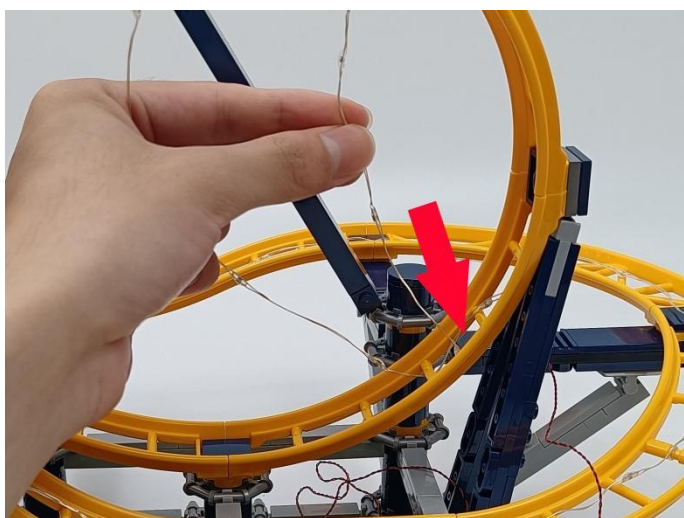
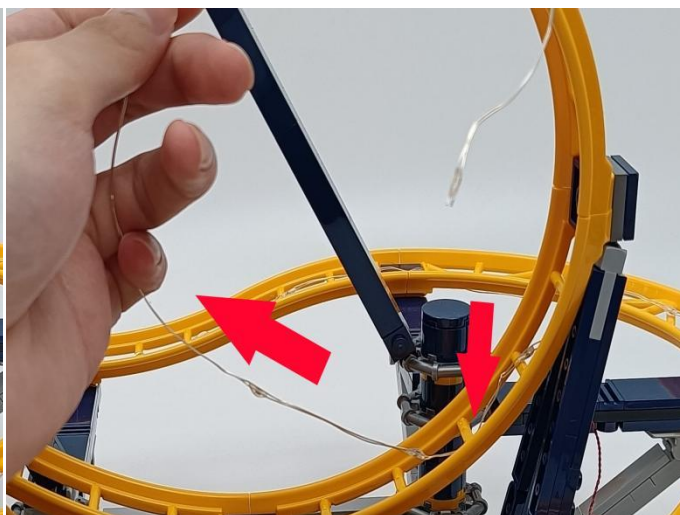
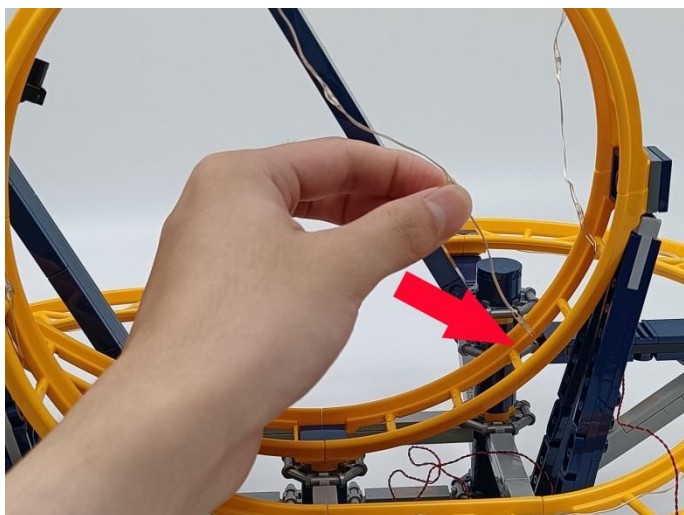
81. Pass the lighting wire through the gap in the track.



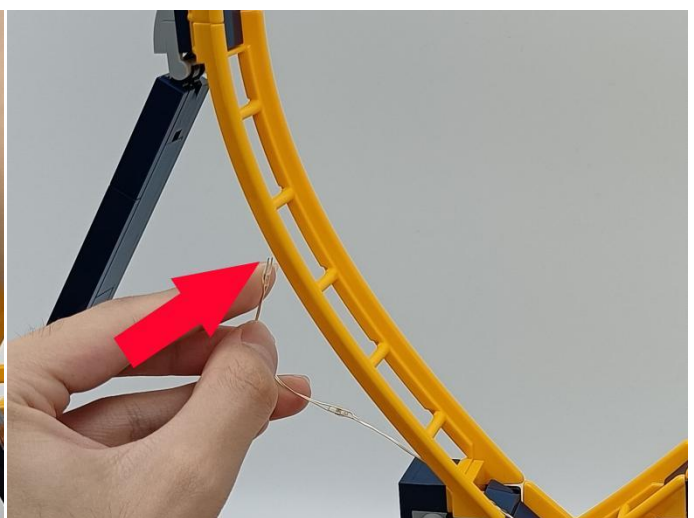
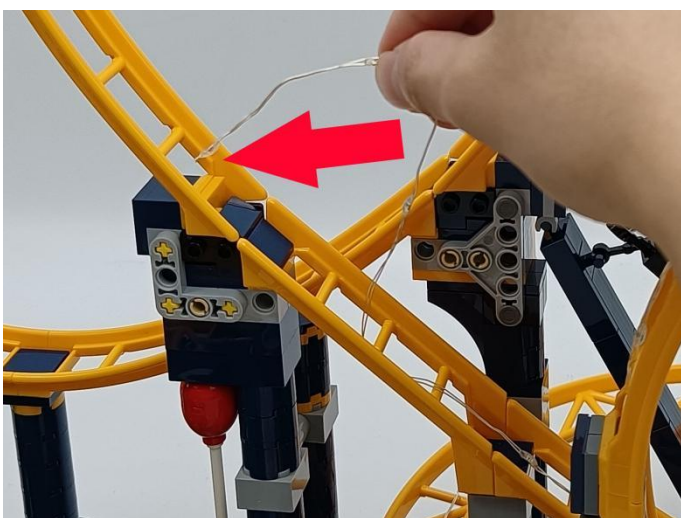
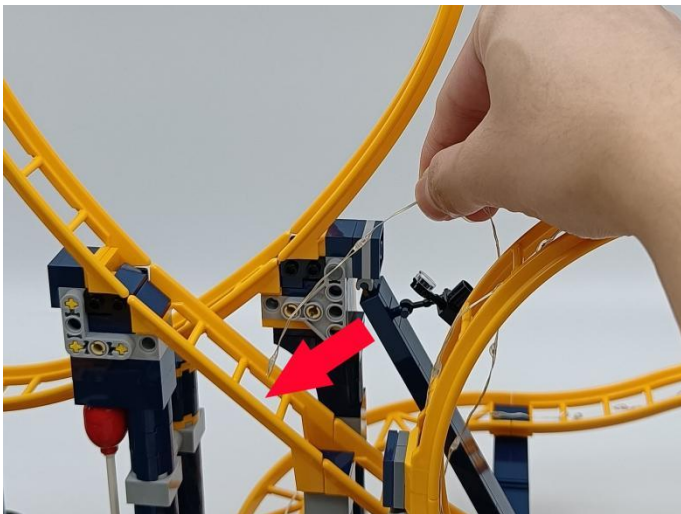
82. Hide the black part of the lighting wire into the gap between the brick parts.



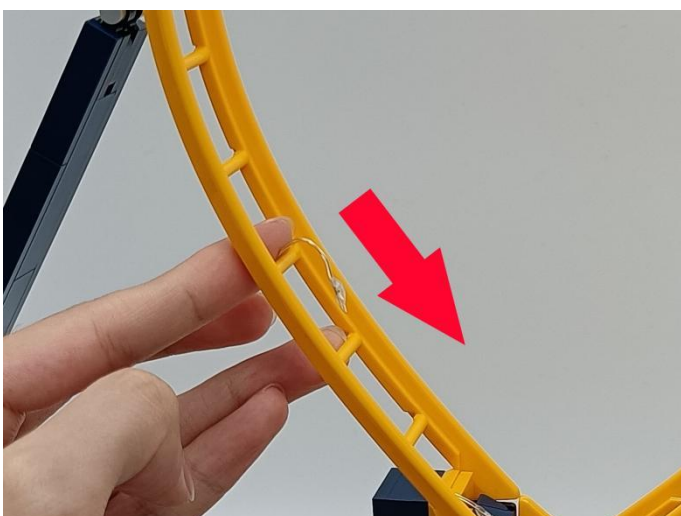
83.Wrap the remaining lighting wire around the track.



84.Wrap the remaining lighting wire around the track.



85.Wrap a circle around the position selected in the picture to secure the lighting wire.



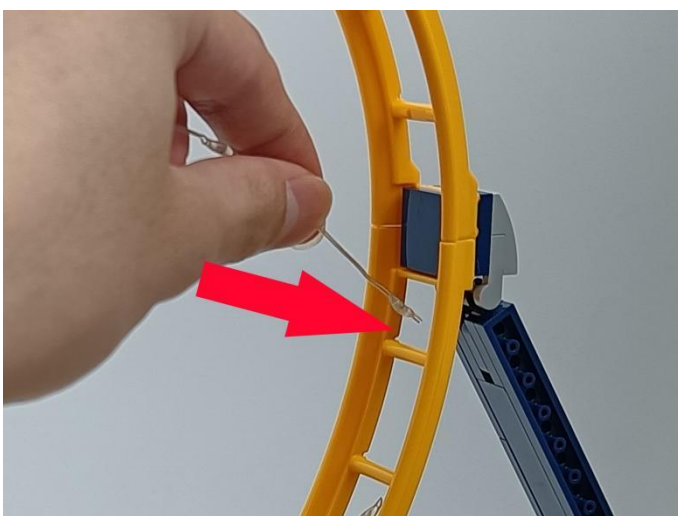
86



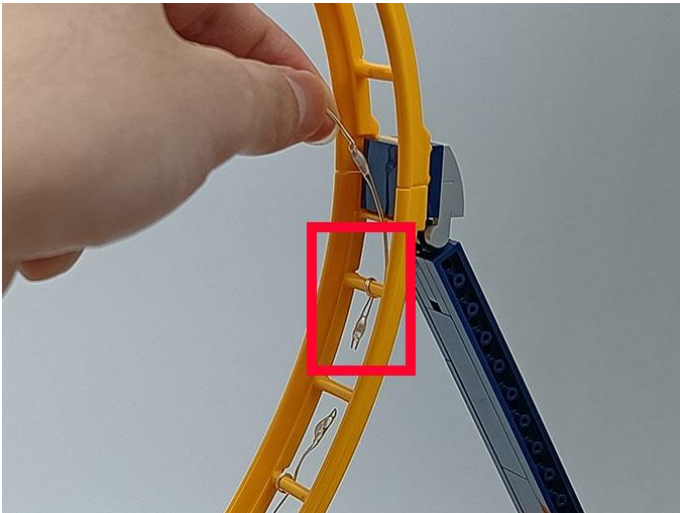
87



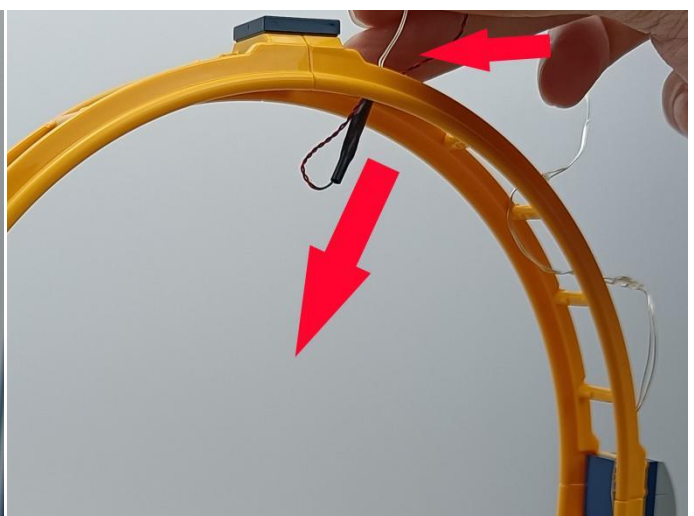
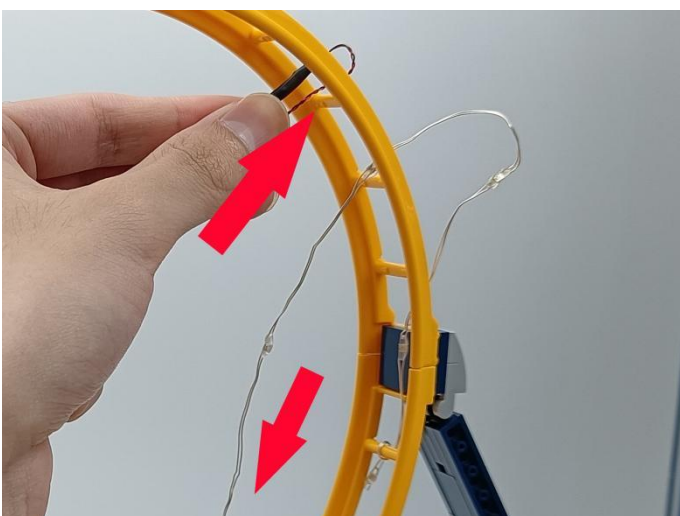
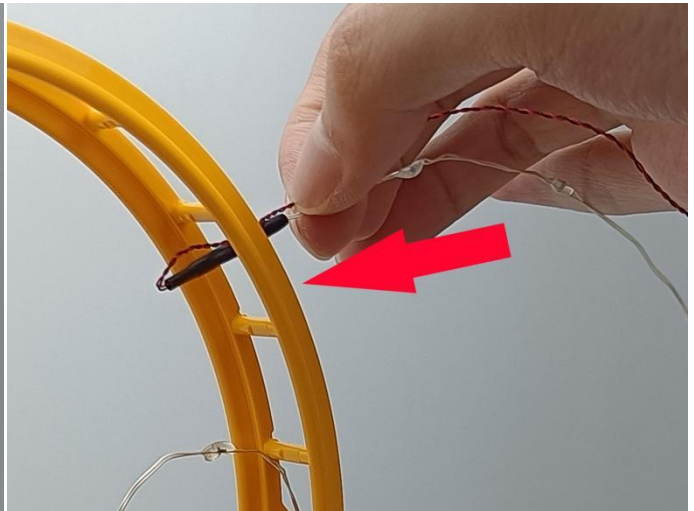
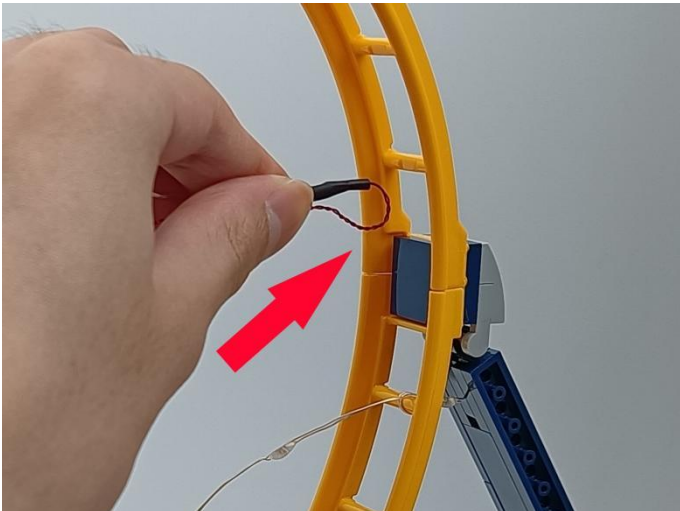
88. Pass the lighting wire through the gap in the track.

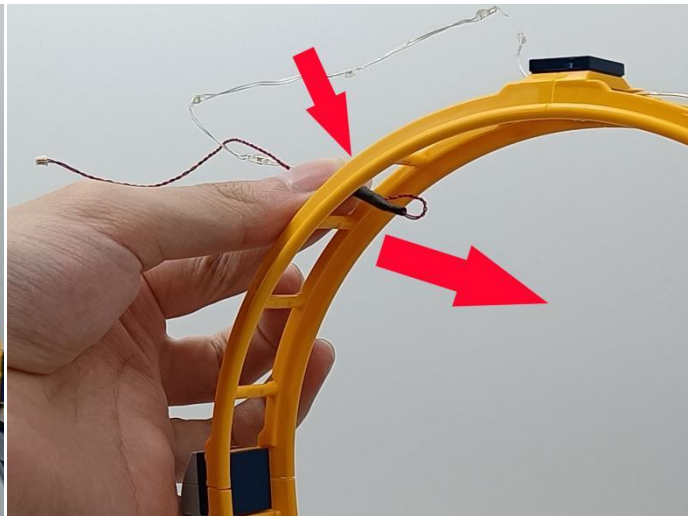
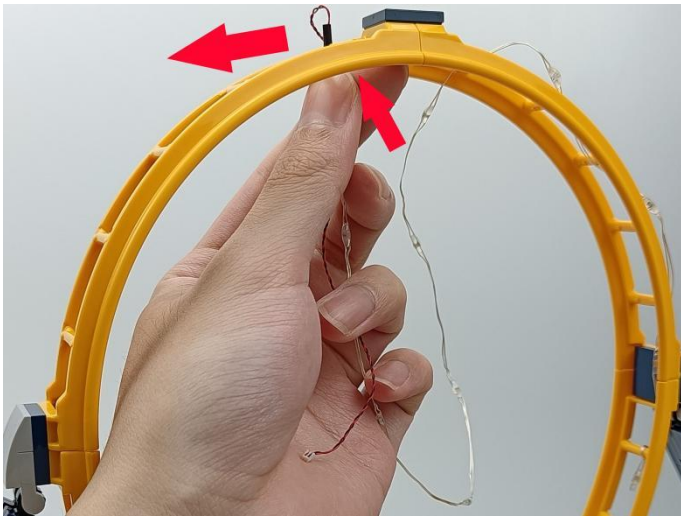


89. Wrap a circle around the position selected in the picture to secure the lighting wire.

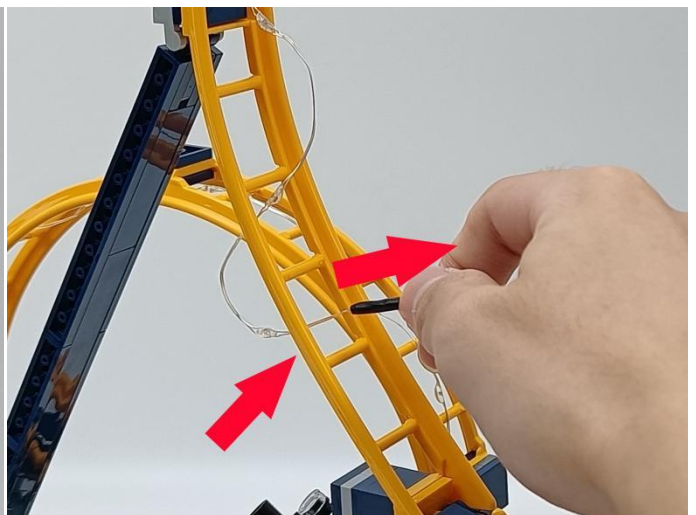
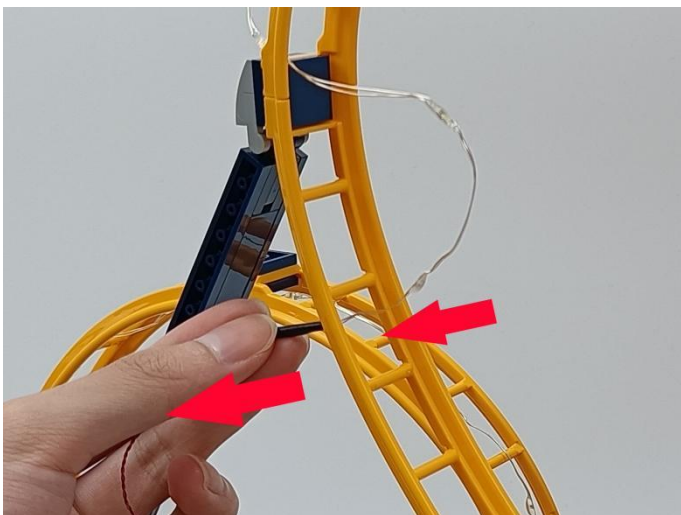
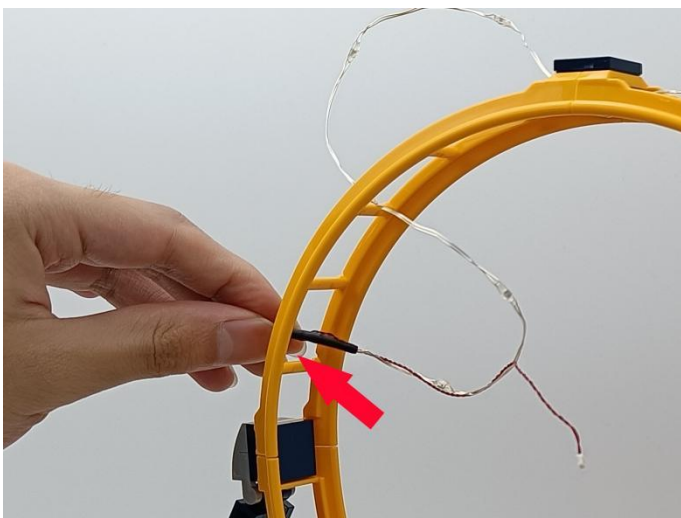


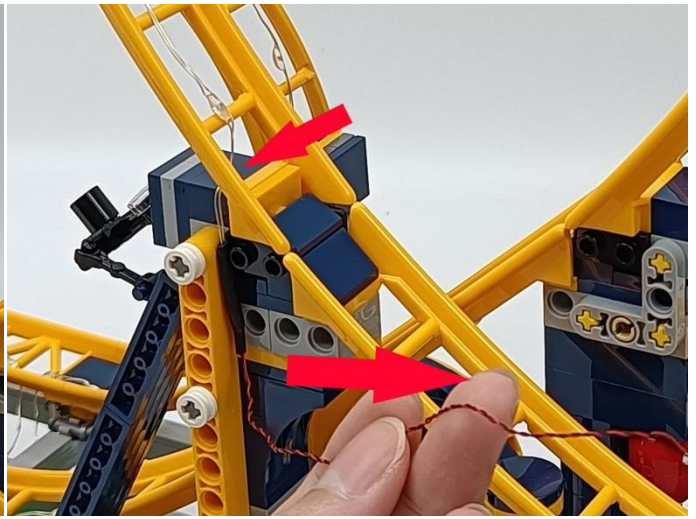
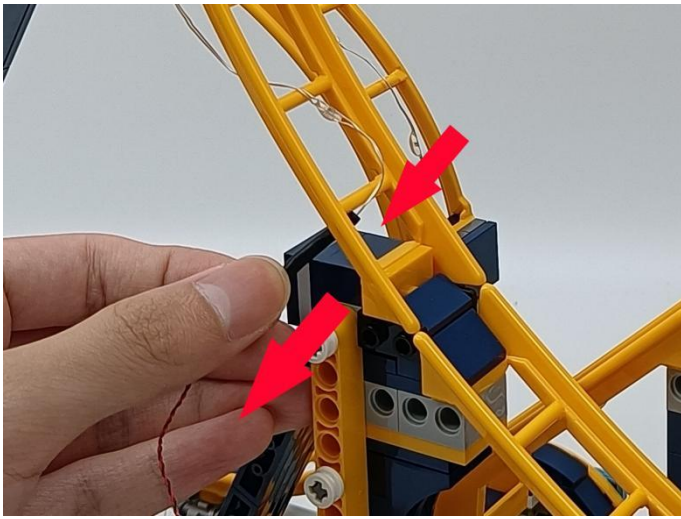
90. Wrap the remaining lighting wire around the track.





91. Wrap the remaining lighting wire around the track.



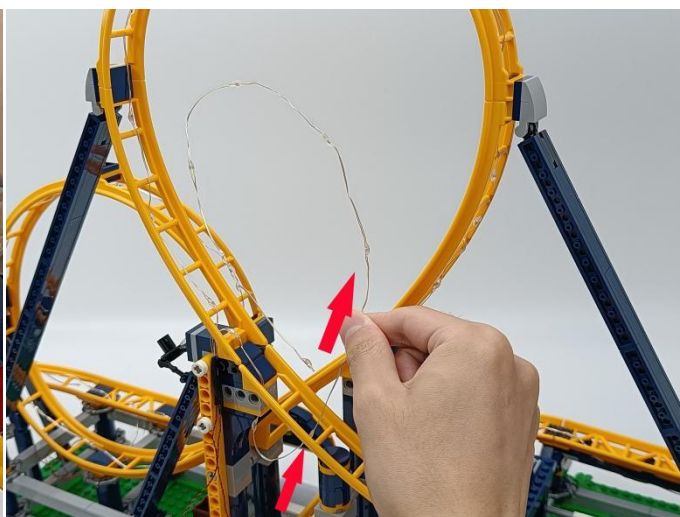
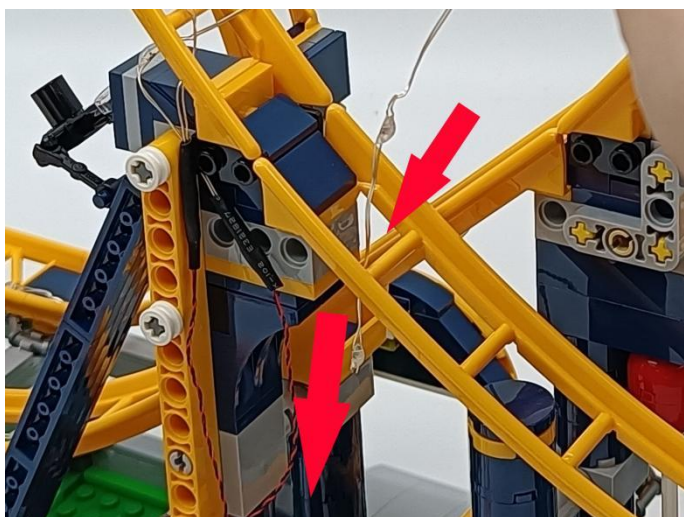


92



93. Wrap the remaining lighting wire around the track.



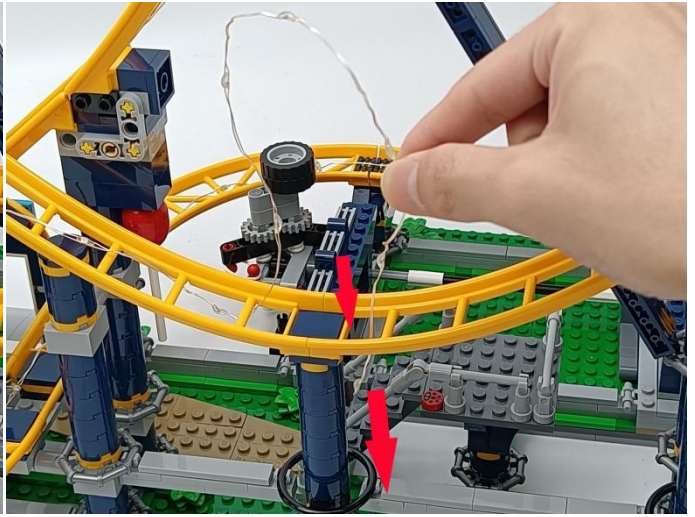
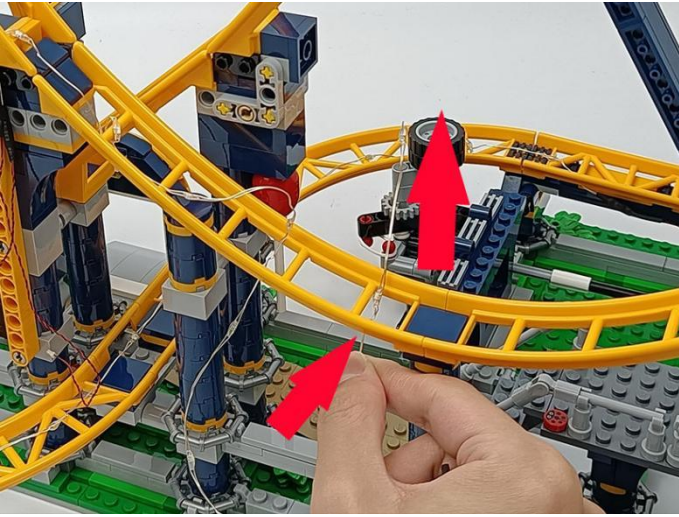


94. Wrap a circle around the position selected in the picture to secure the lighting wire.

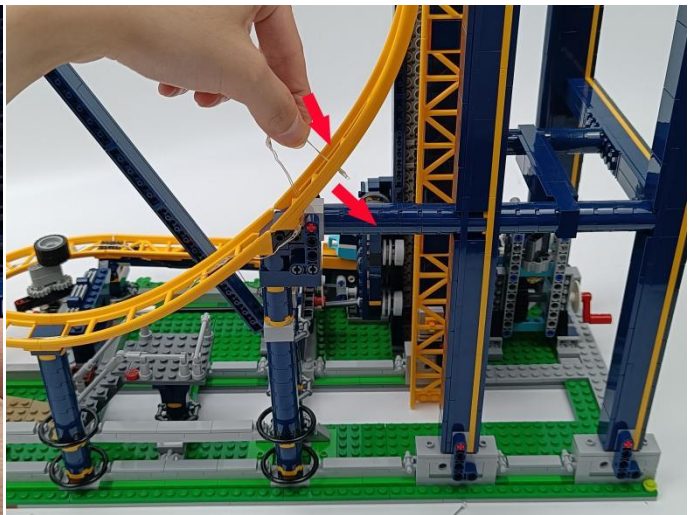
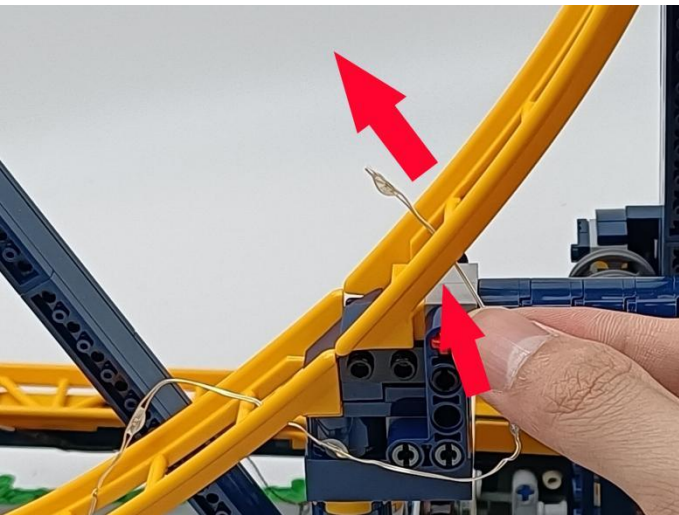
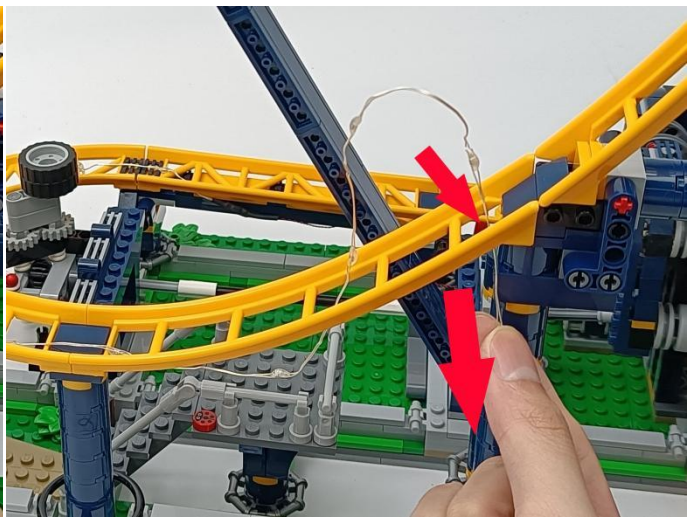
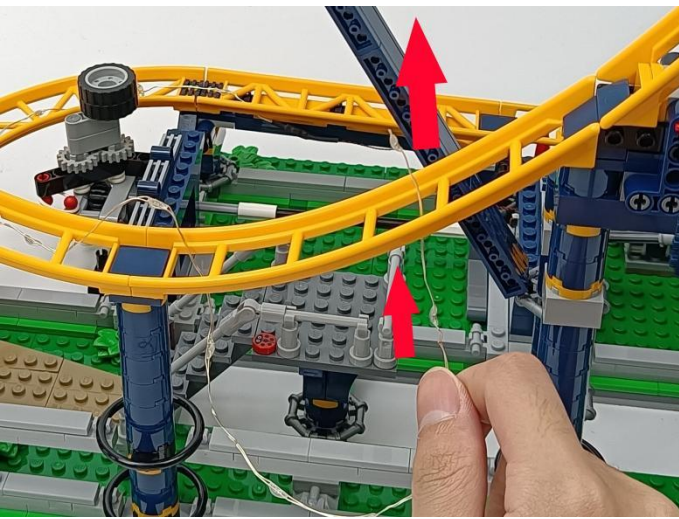


95. Wrap the remaining lighting wire around the track.





96. Wrap the remaining lighting wire around the track.



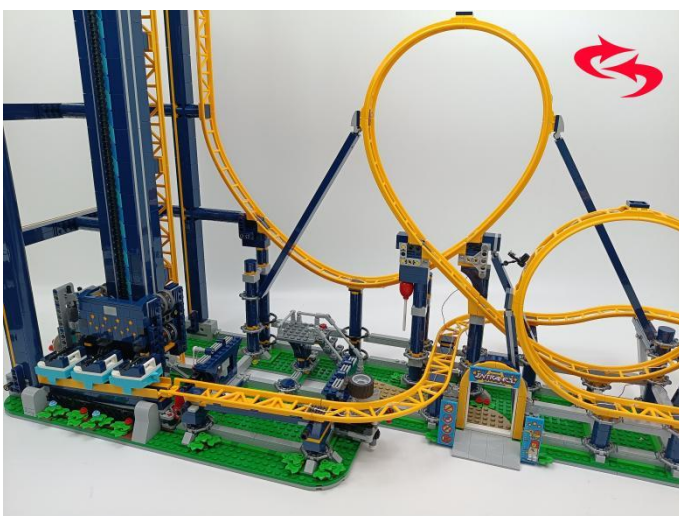
97. Wrap a circle around the position selected in the picture to secure the lighting wire.



98



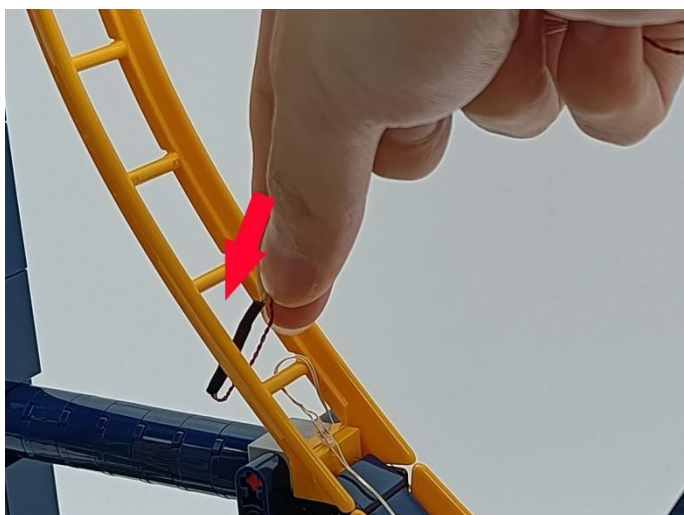
99



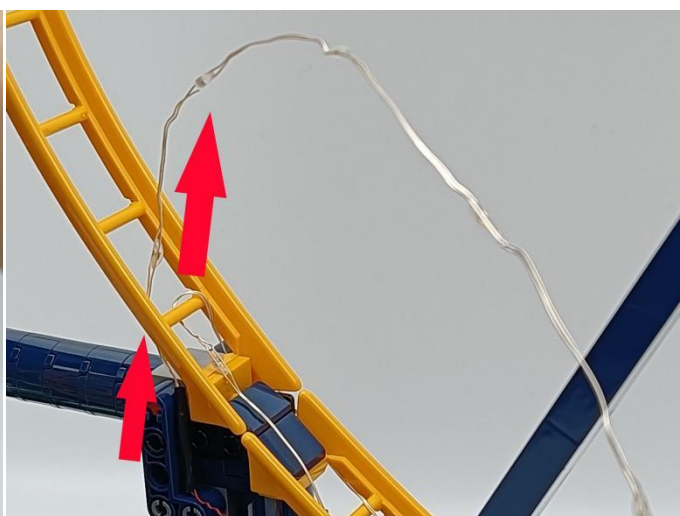
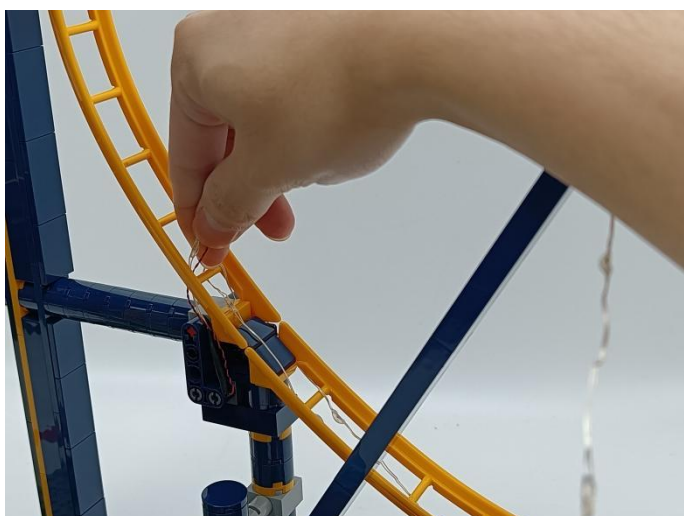
100

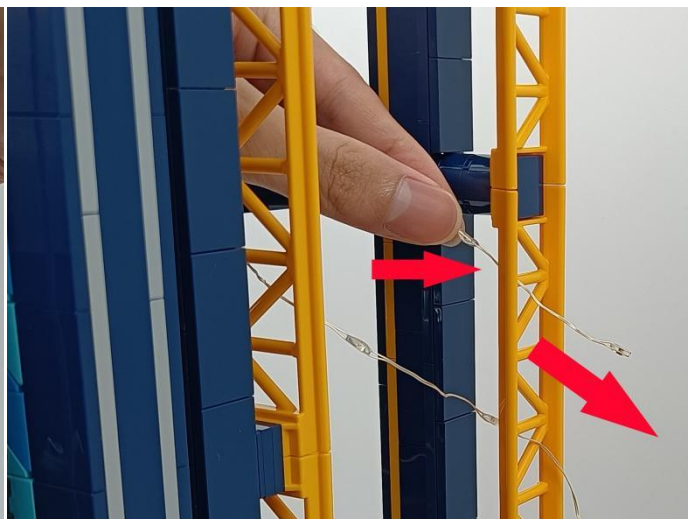
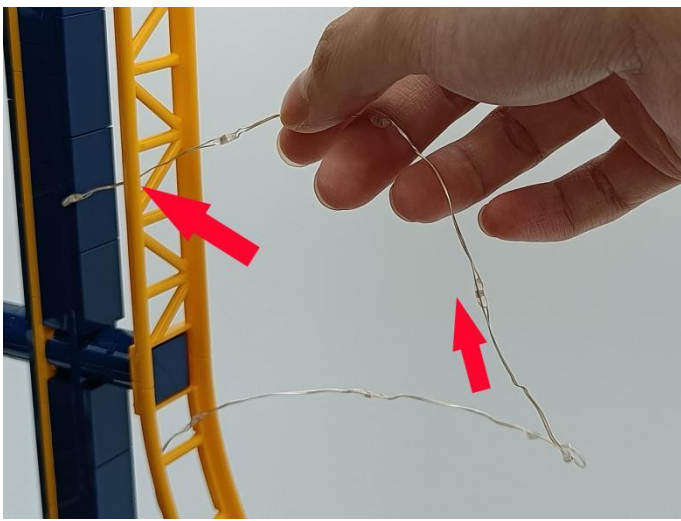
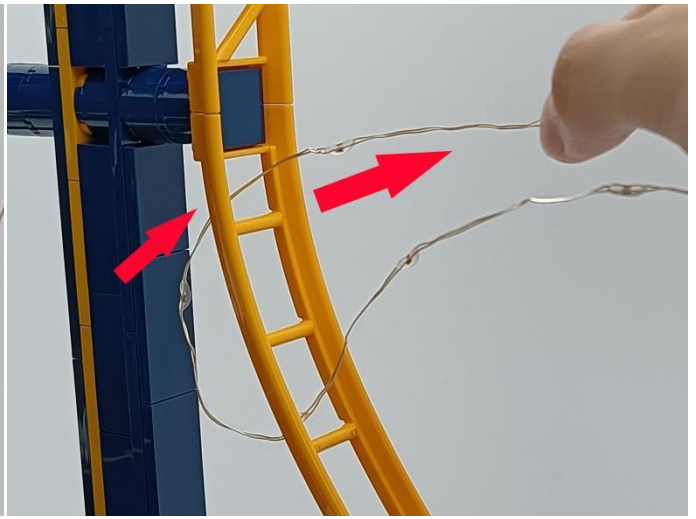
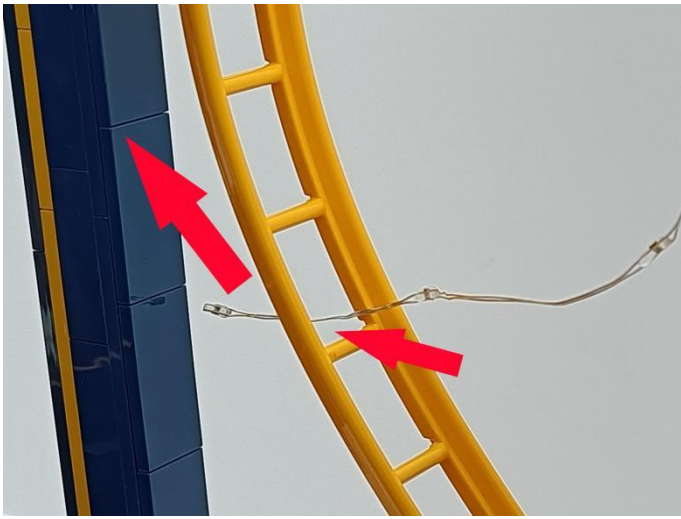


101. Pass the lighting wire through the gap in the track.

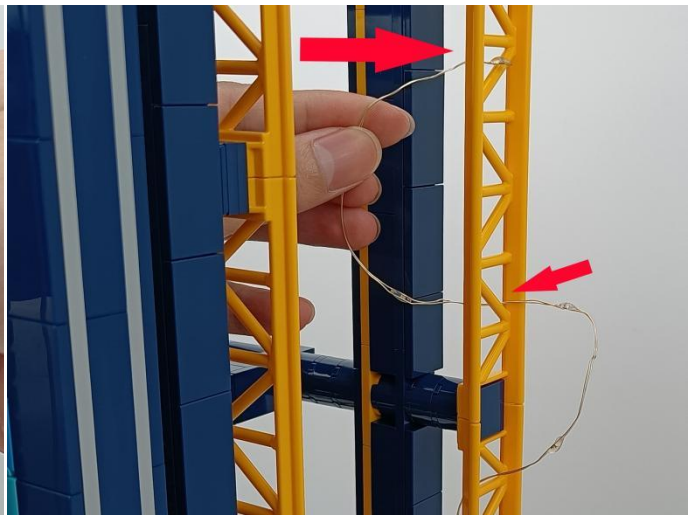
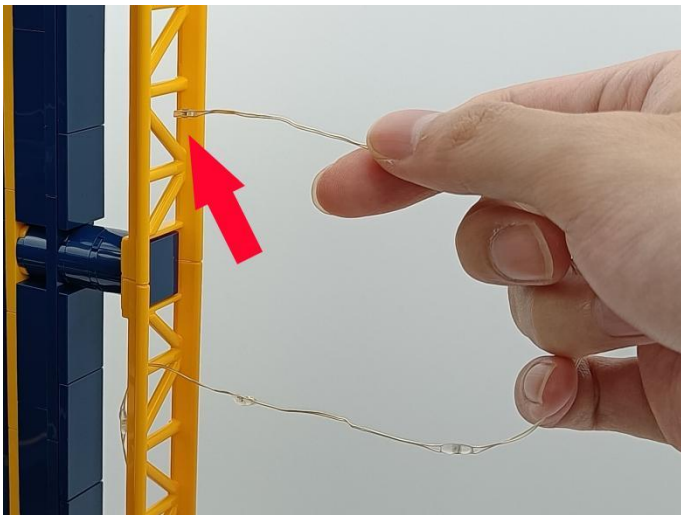


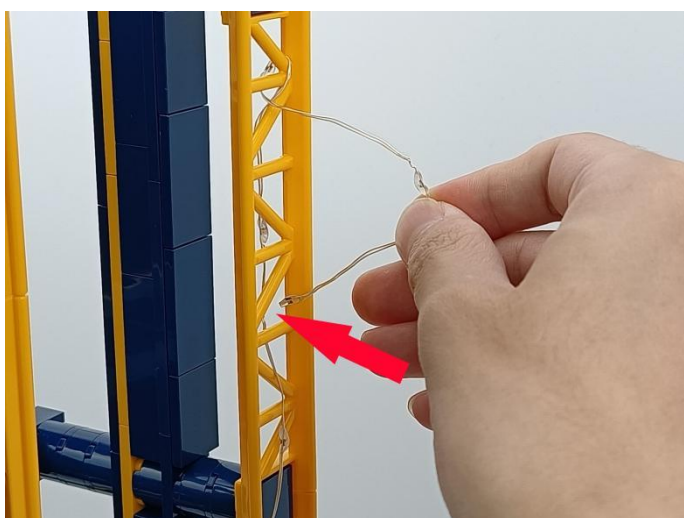
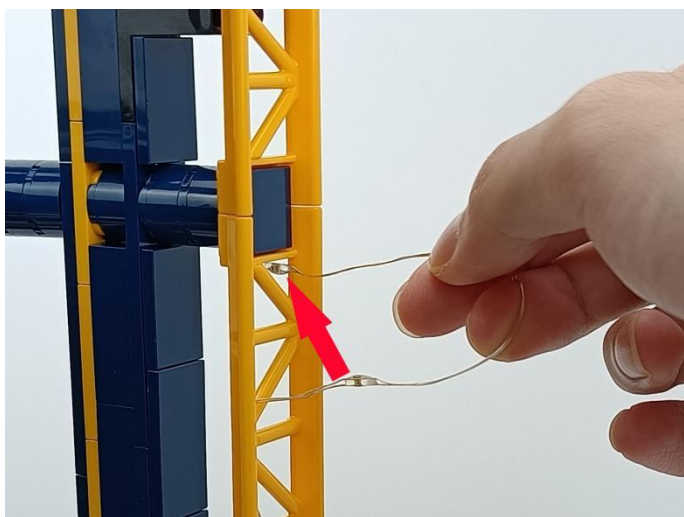
102. Wrap the remaining lighting wire around the track.





103. Wrap the remaining lighting wire around the track.





104. Wrap a circle around the position selected in the picture to secure the lighting wire.



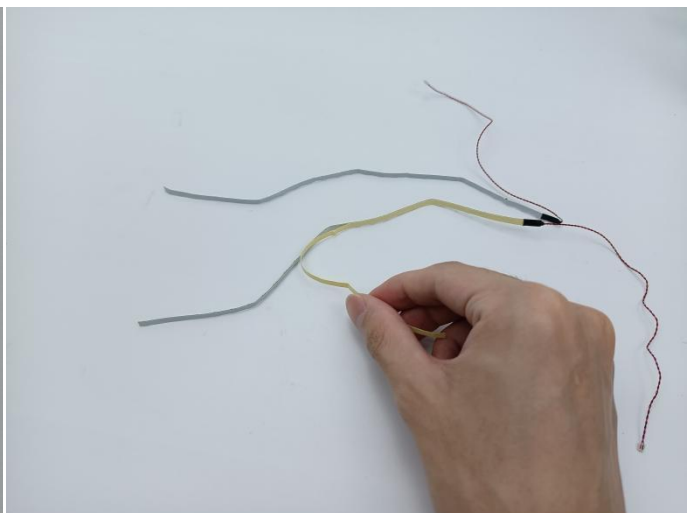
105



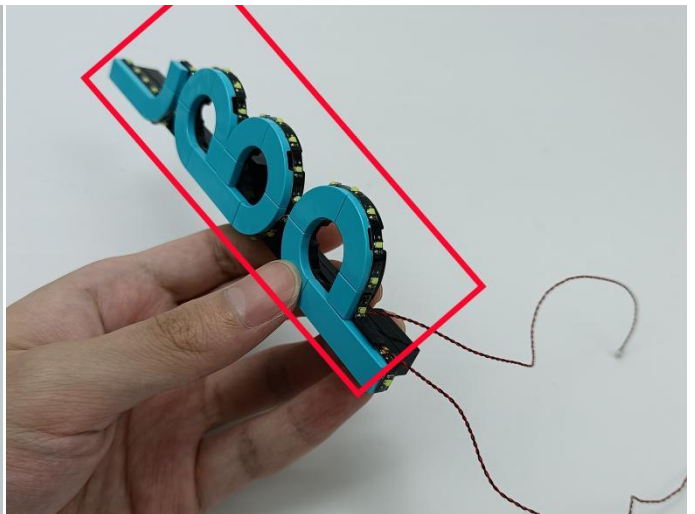
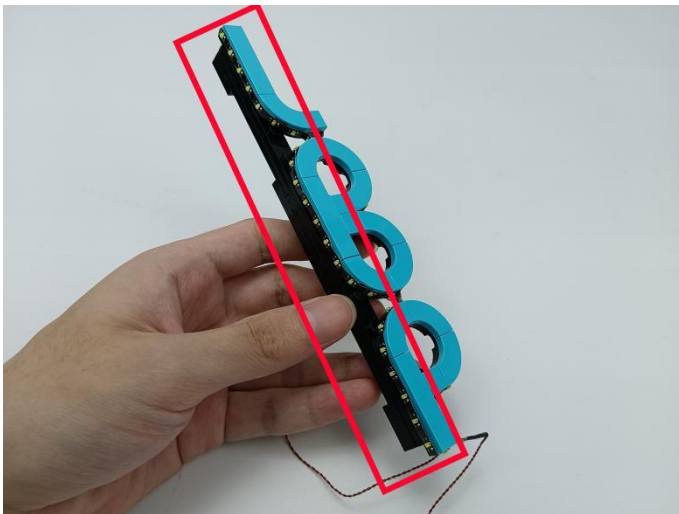
106



107



108



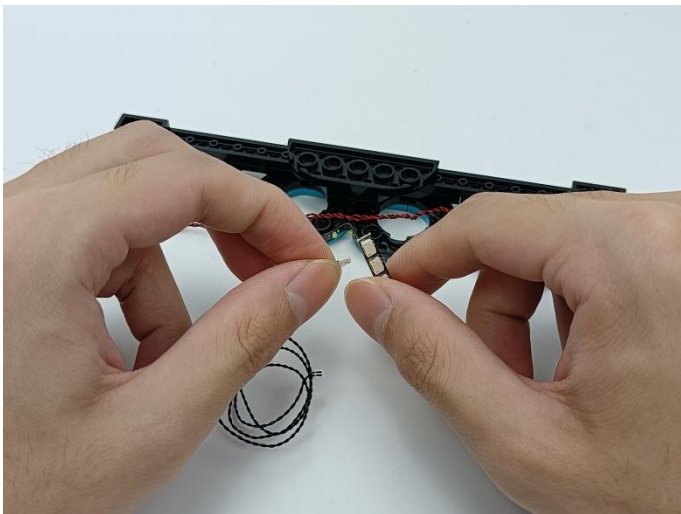
109



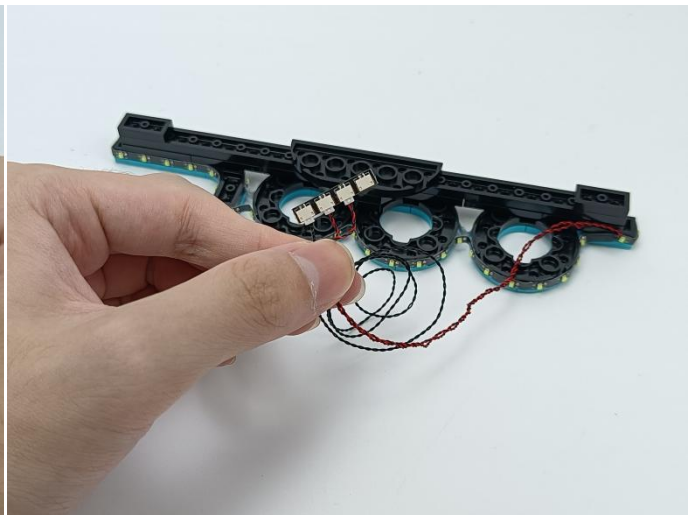
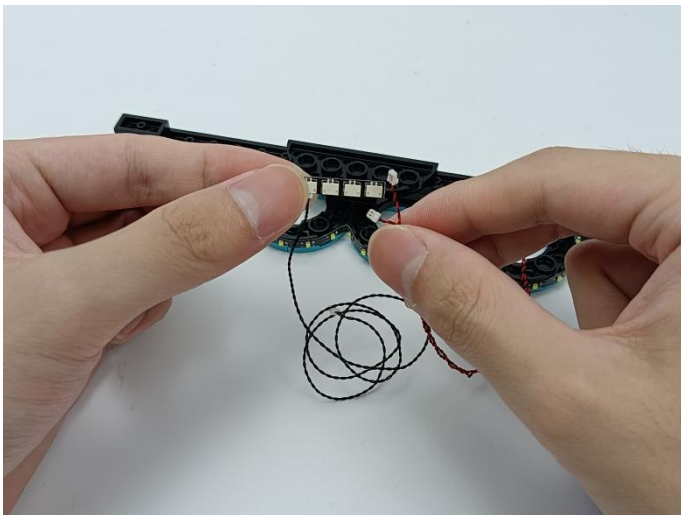
110



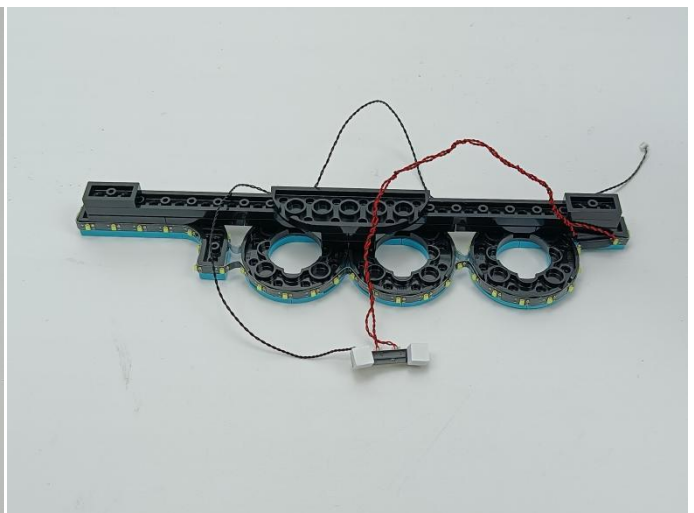
111



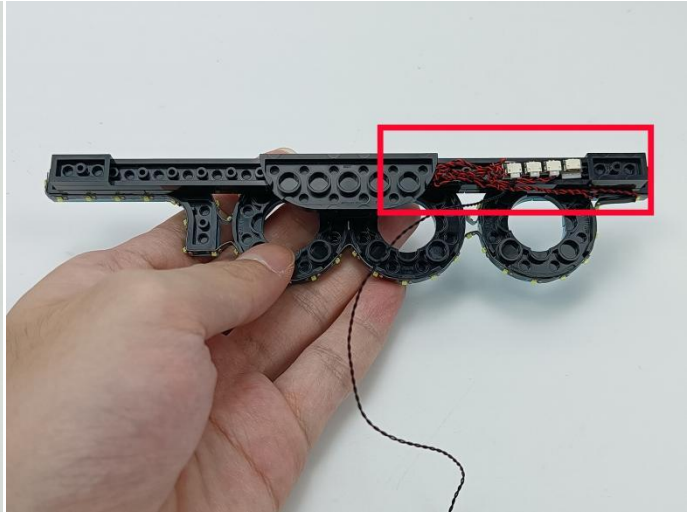
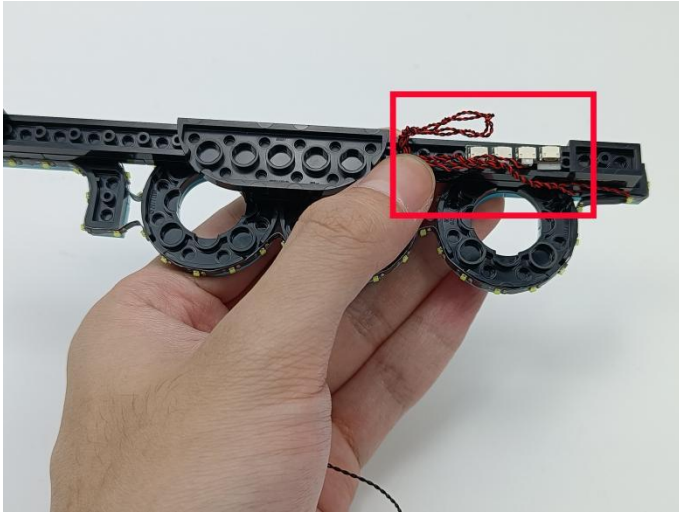
112



113



114



115



Tips

The slit on the the plate round 1X1 are hand-made to avoid squeeze the wire and cause short circuit and abnormal heat during installation.

The plate without slit:

The plate without slit:

The squeeze causes the protective layer of the wire to be torn apart, the positive and negative wires touch together, and the set is short-circuited and the hot or wire is crushed, the wire to be disconnected and don't work.



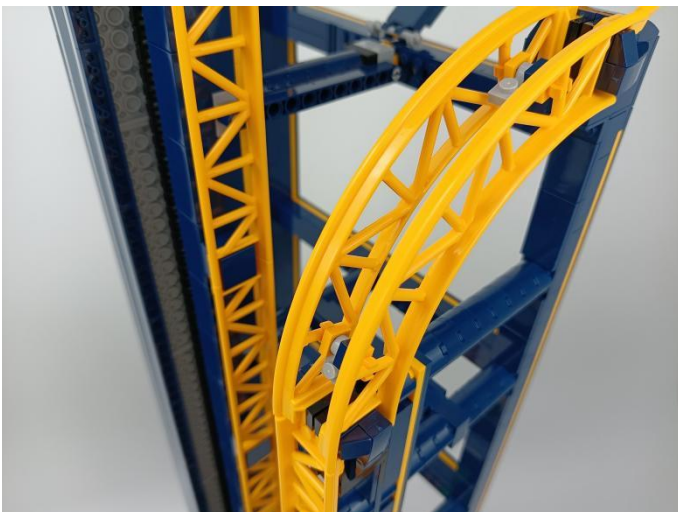
The plate with slit:

The plate with slit:

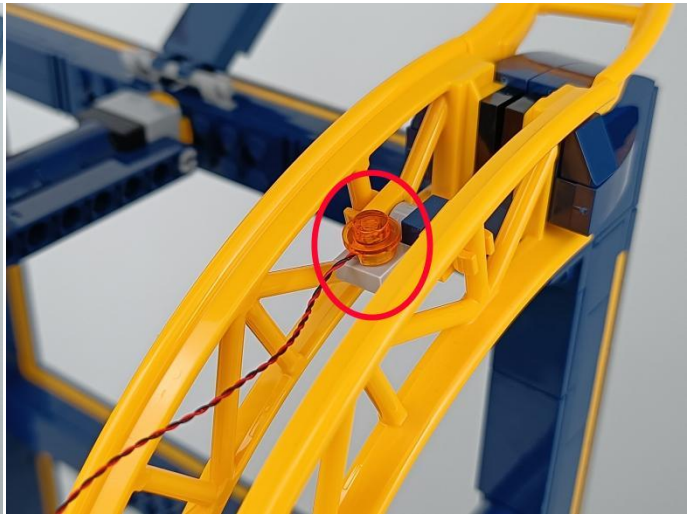
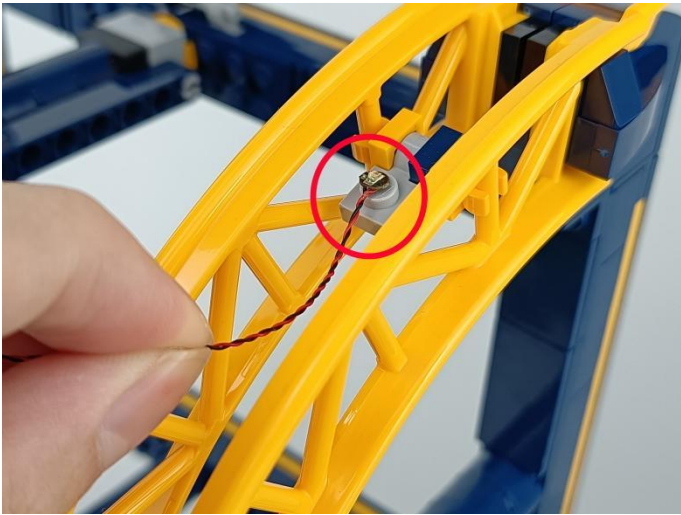
The wire has enough space to avoid being squeezed endowed with longer service life and more stable effect.



116



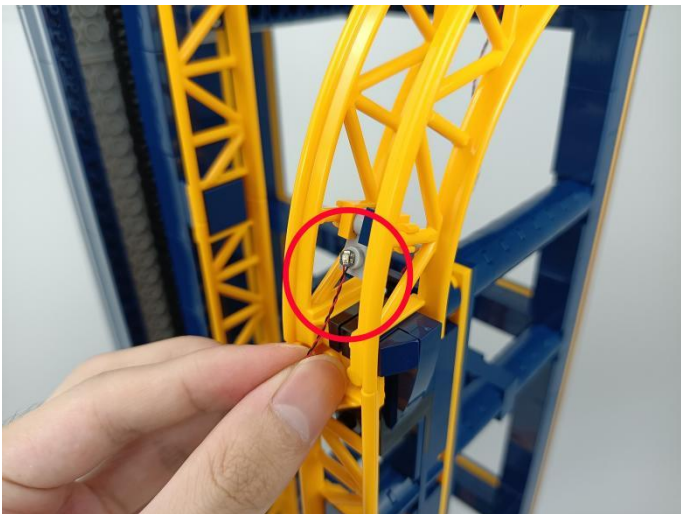
117



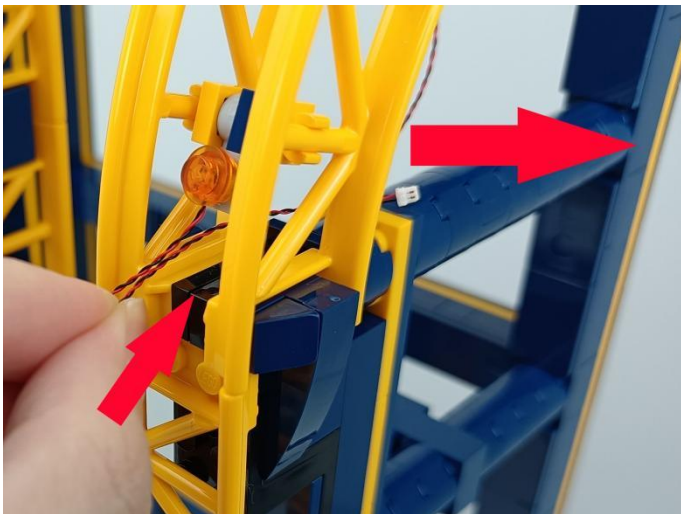
118



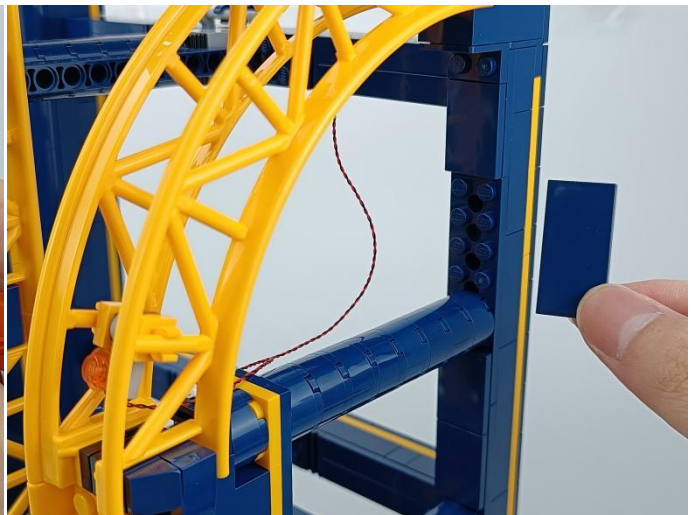
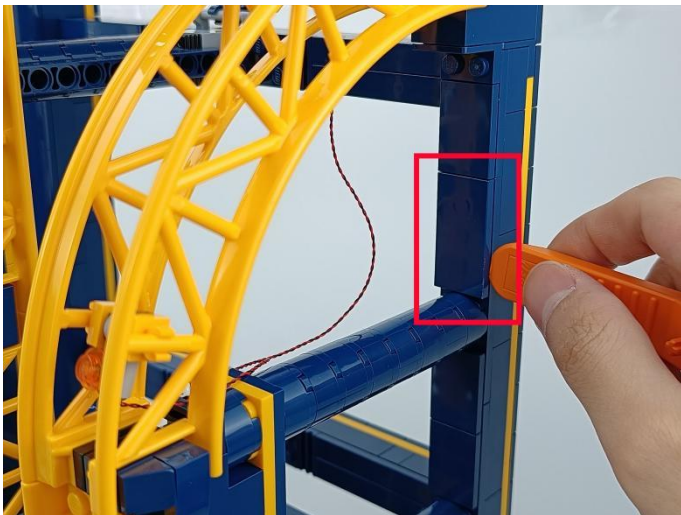
119



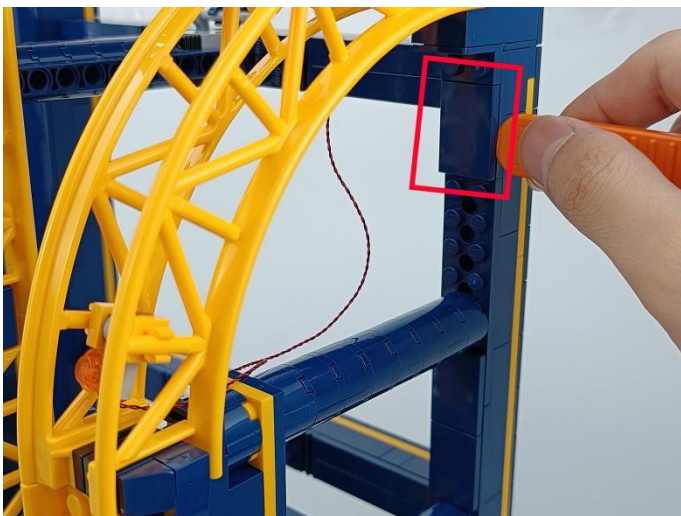
120



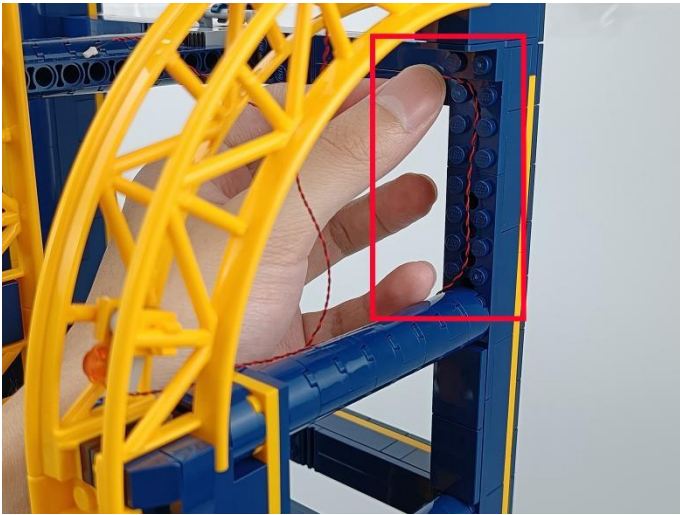
121



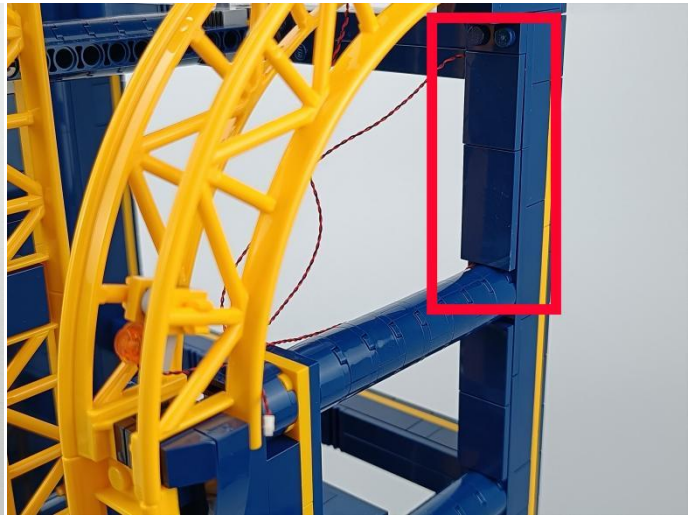
122



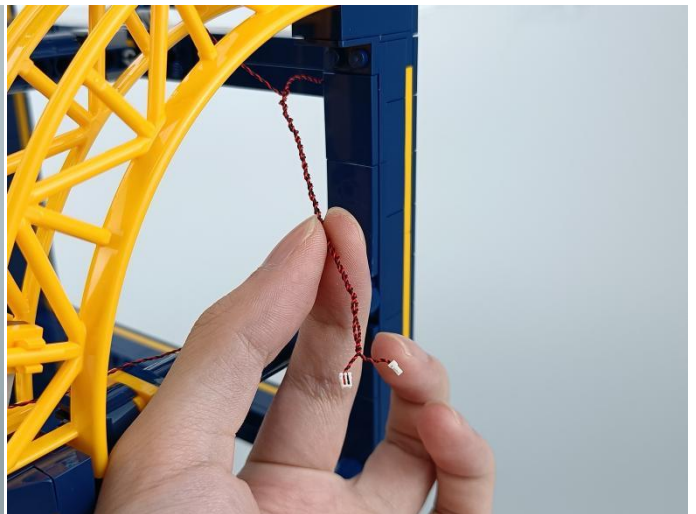
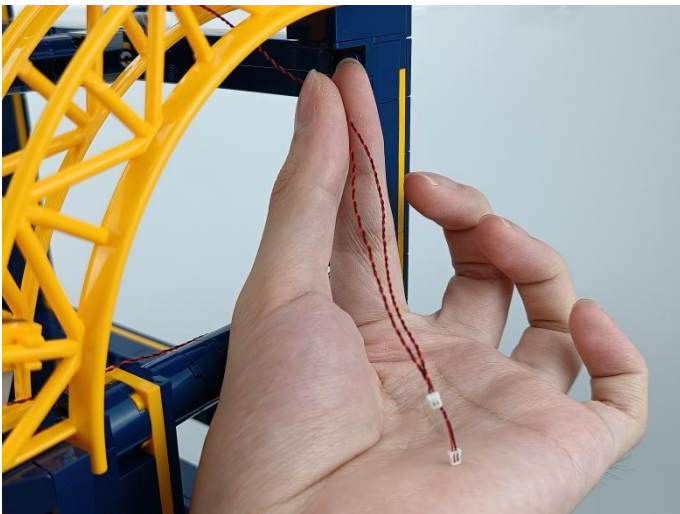
123



124



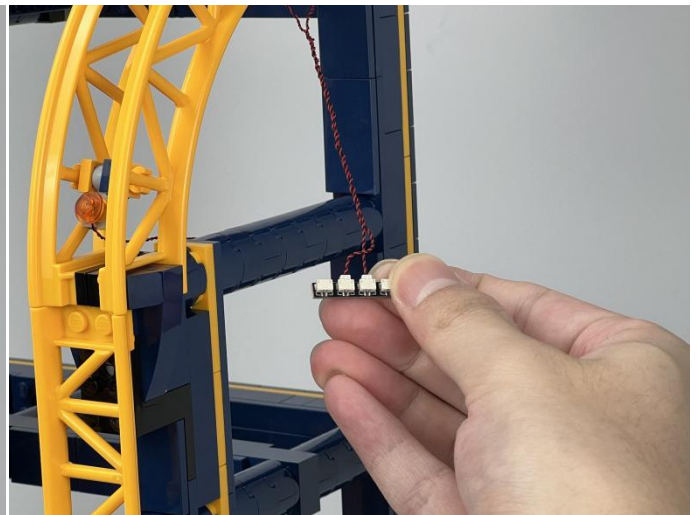
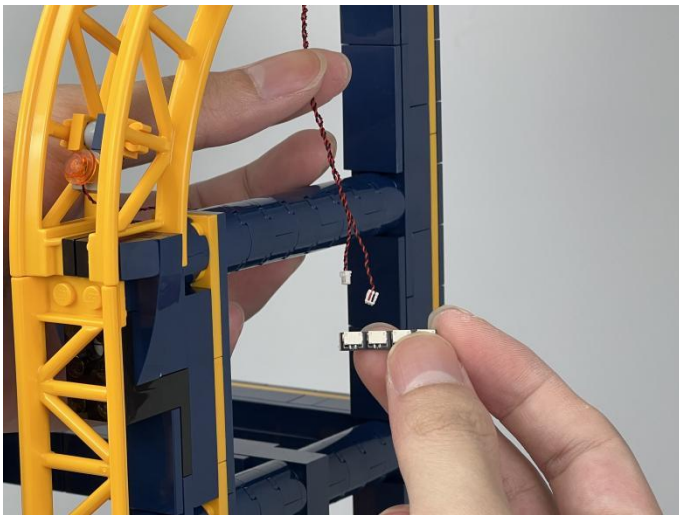
125



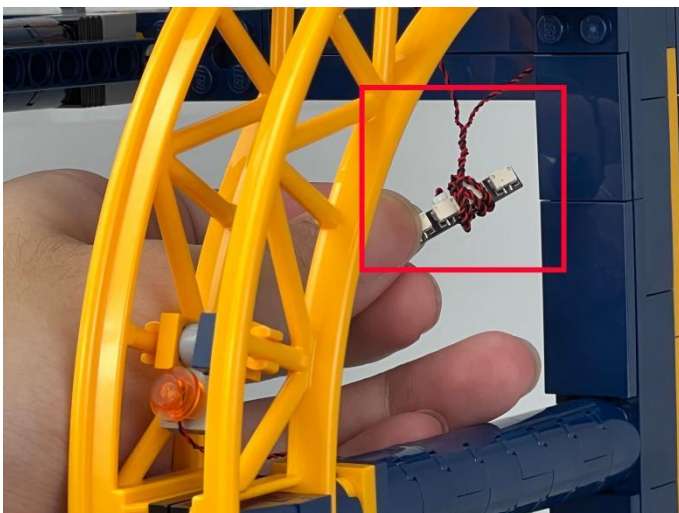
126



127



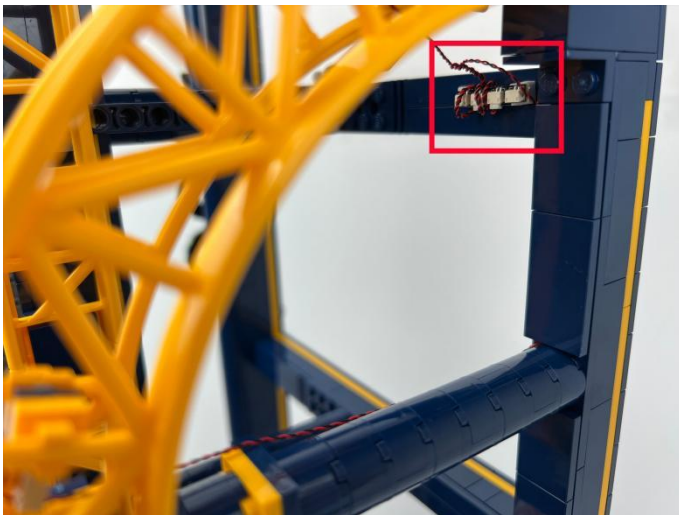
128



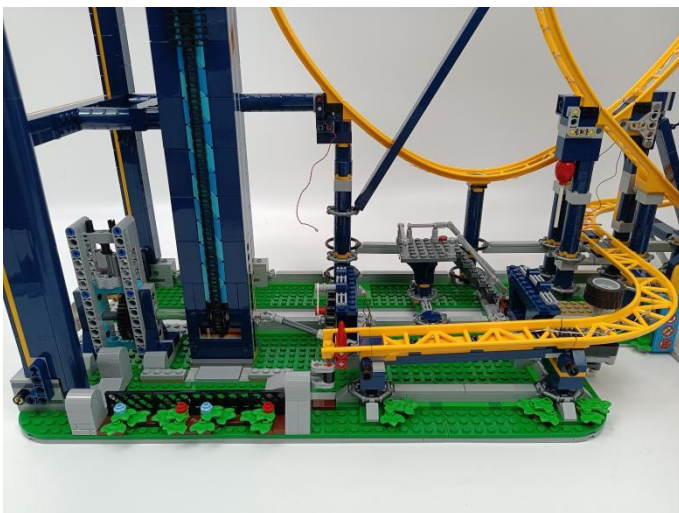
129



130



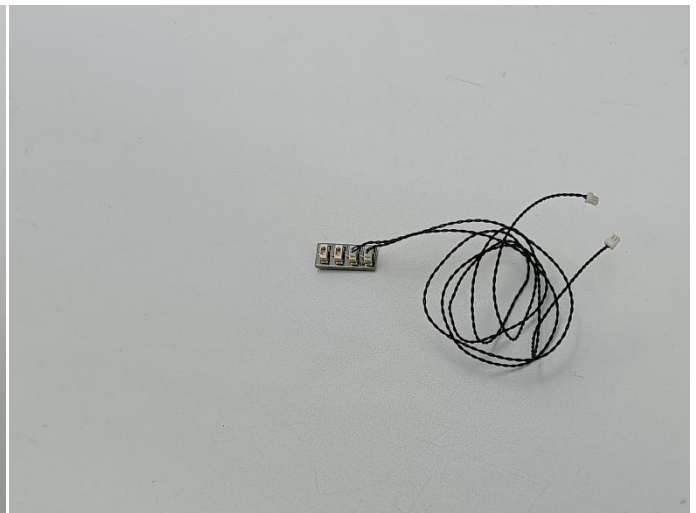
131



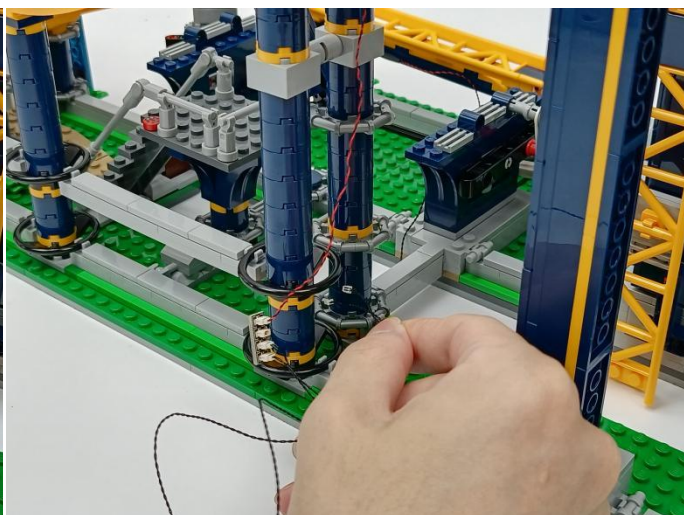
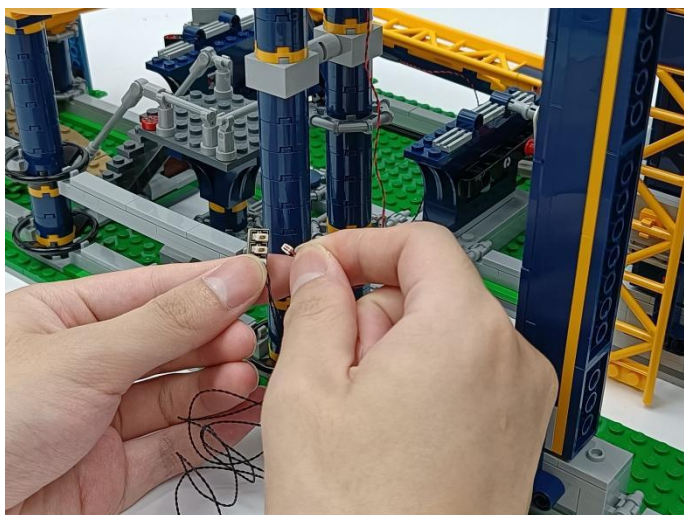
132



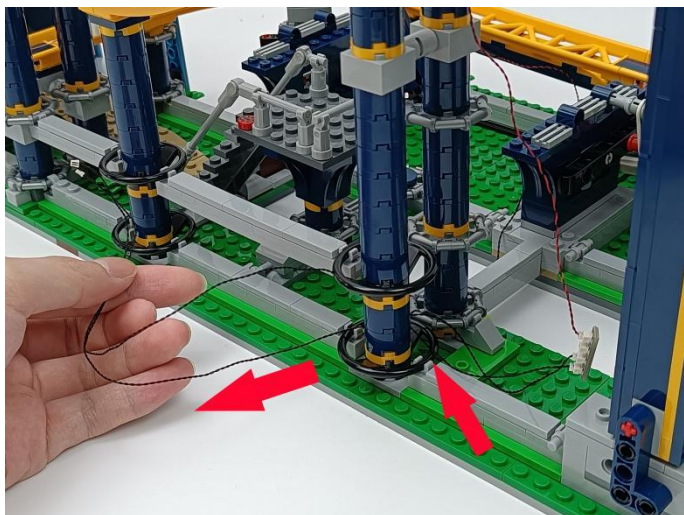
133



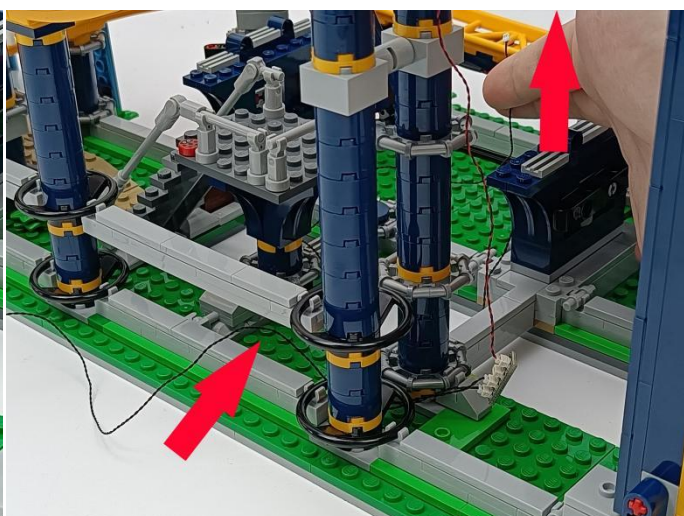
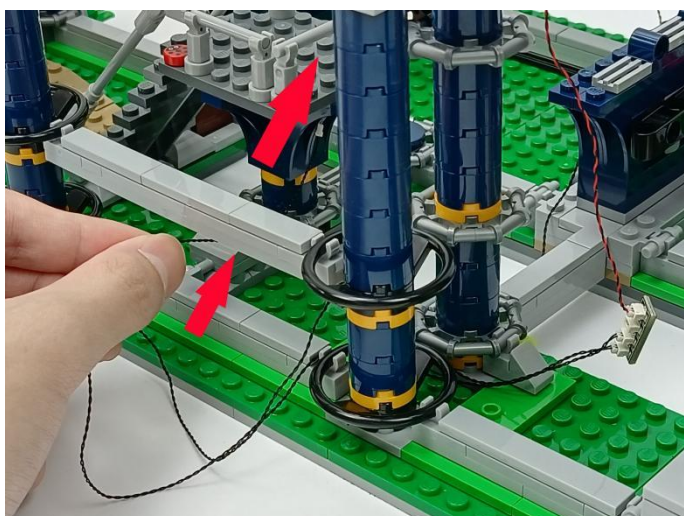
134



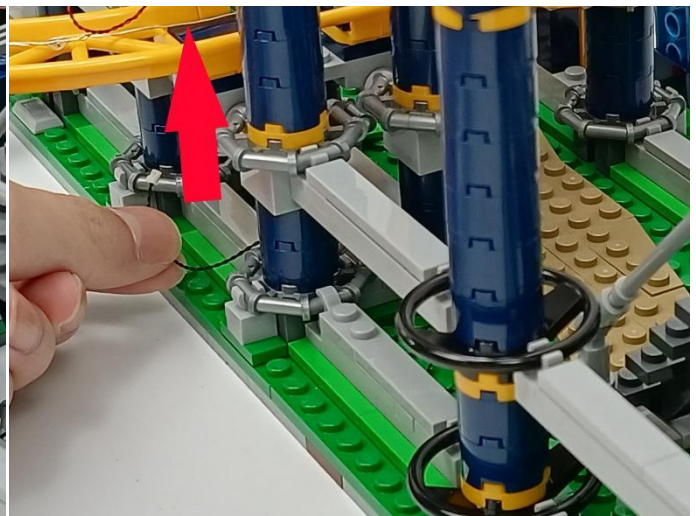
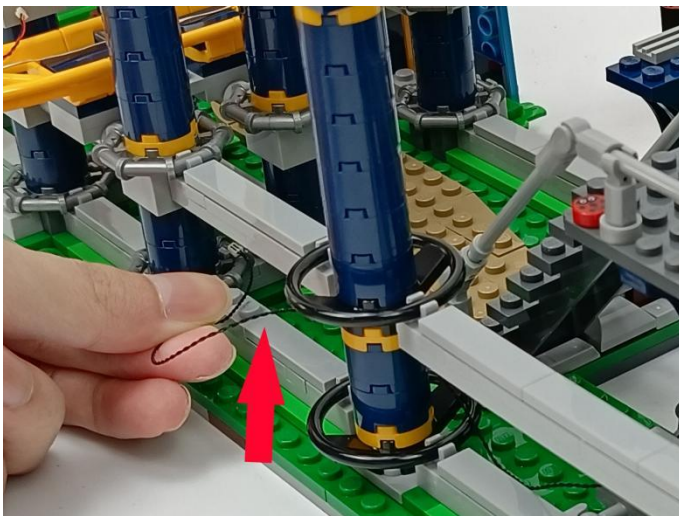
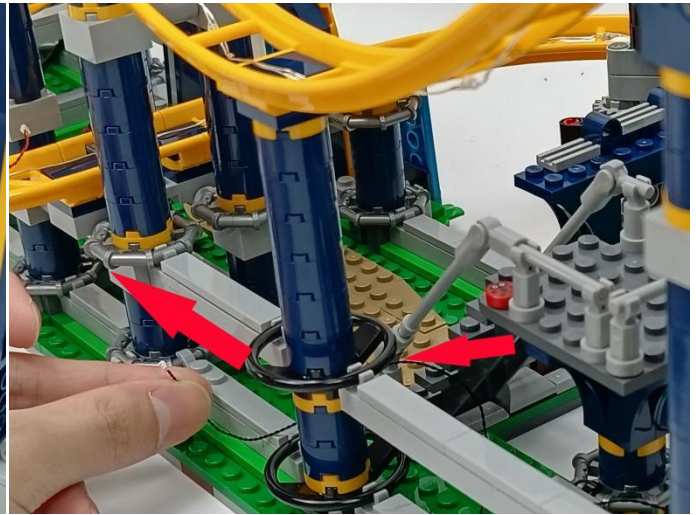
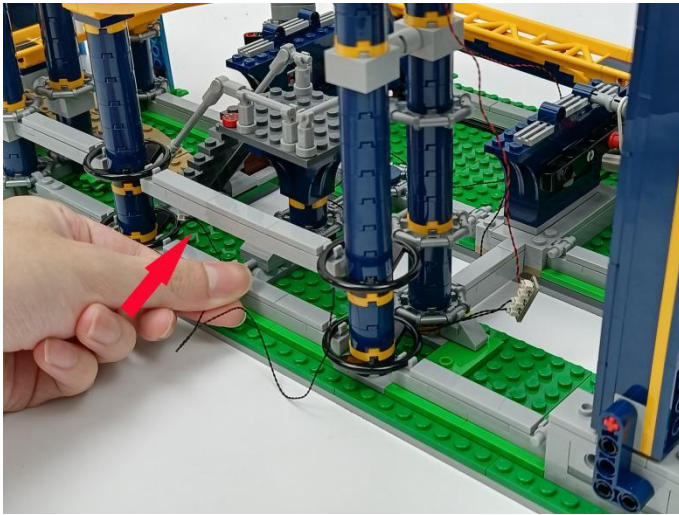
135



136



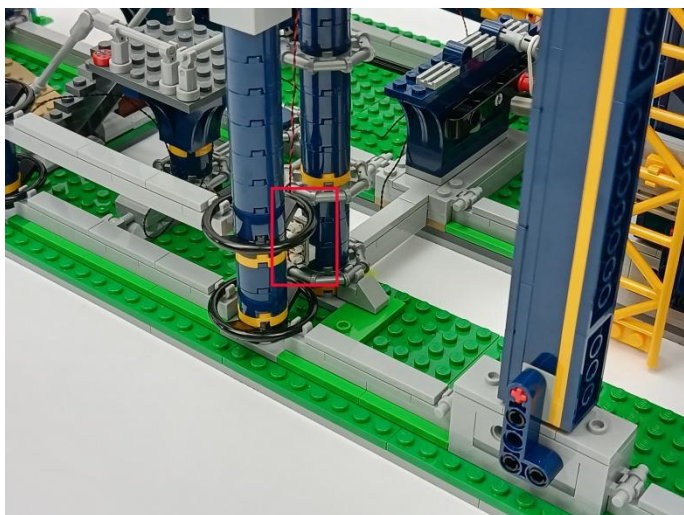
137



138



139



140



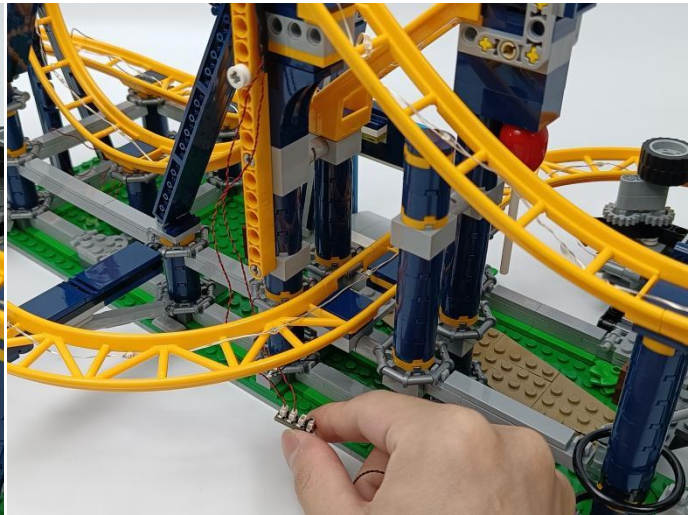
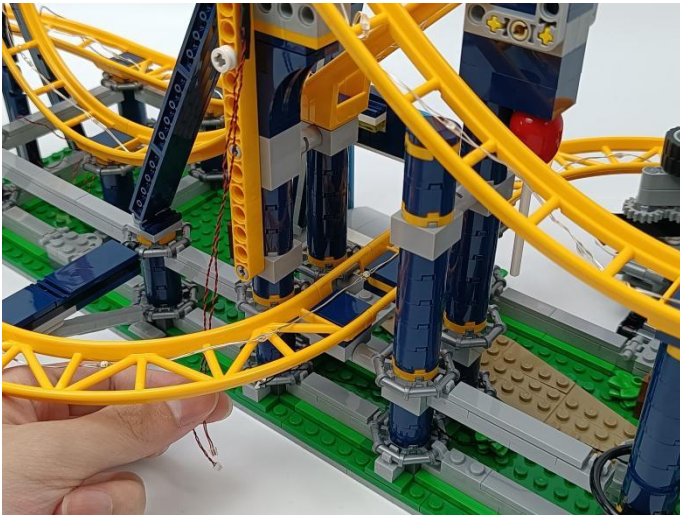
141



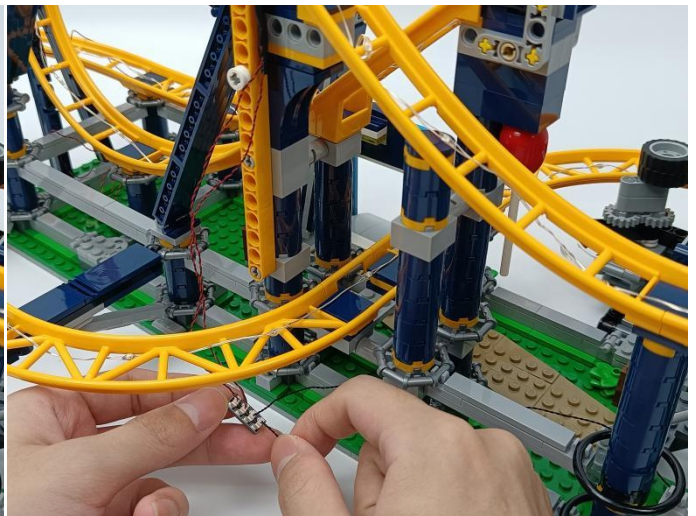
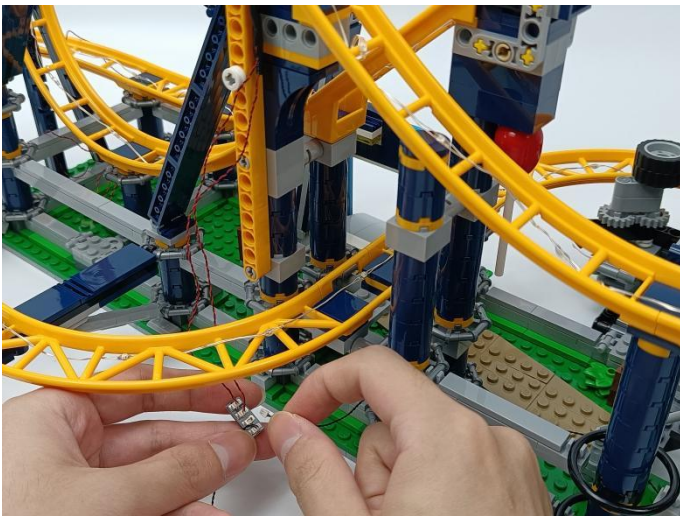
142



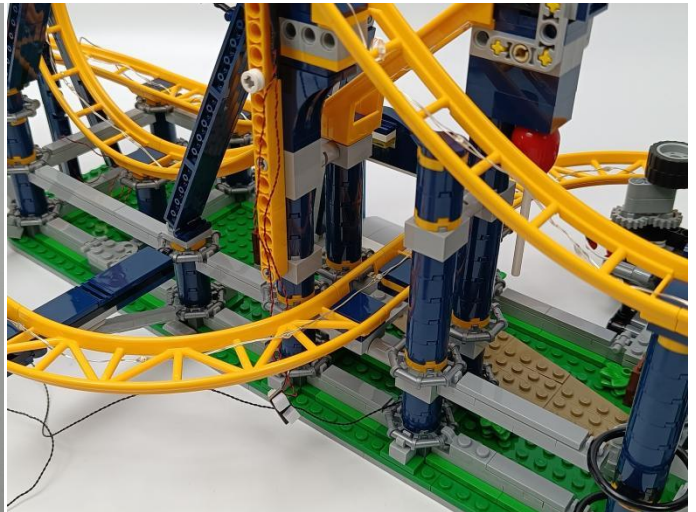
143



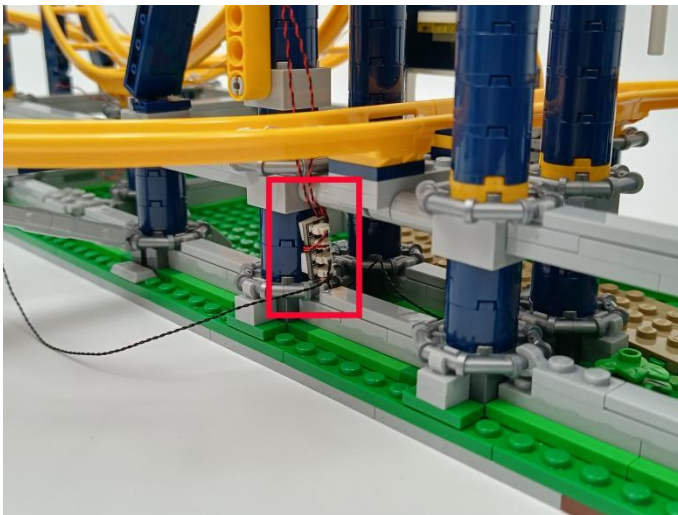
144



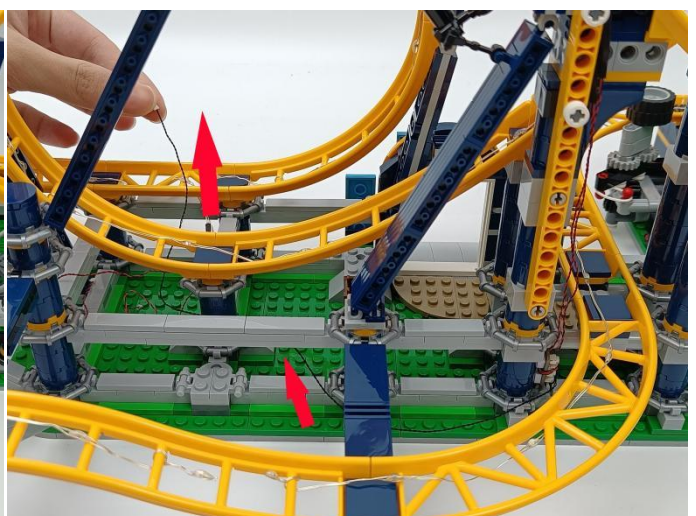
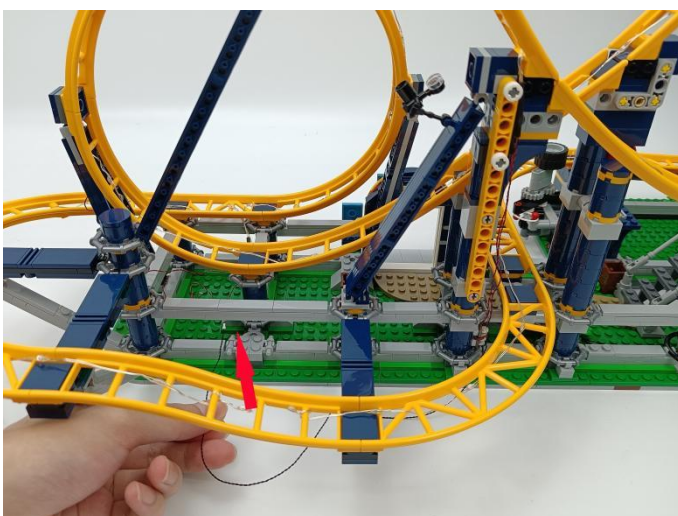
145



146



147



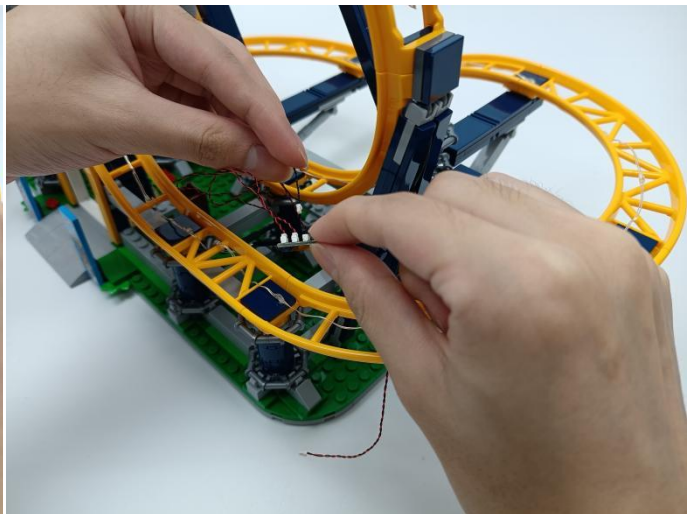
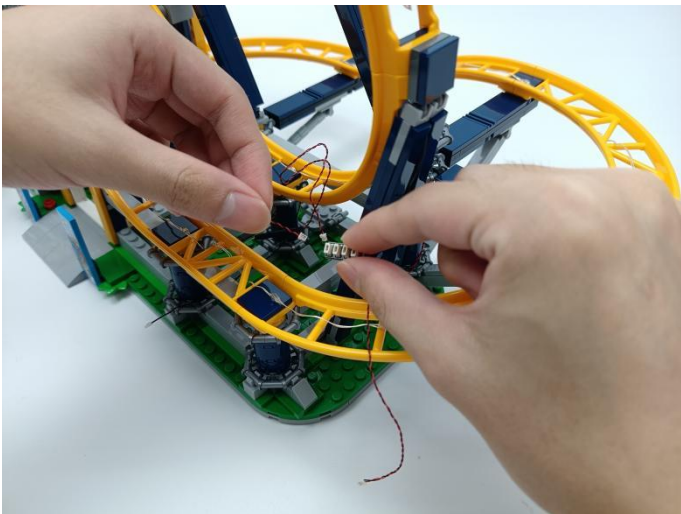
148



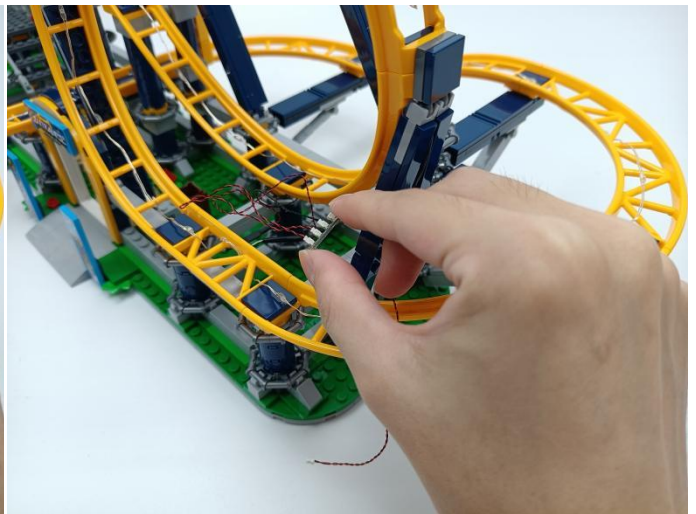
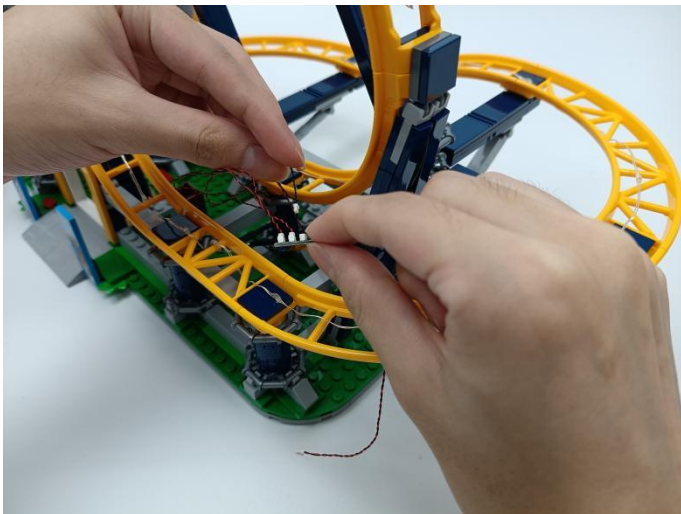
149



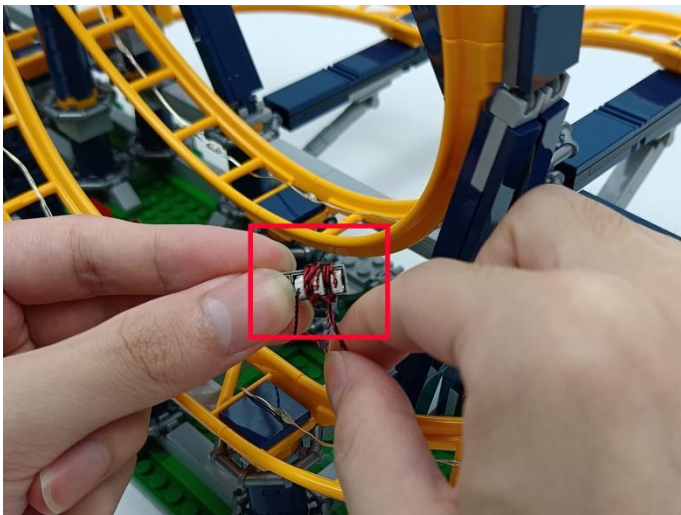
150



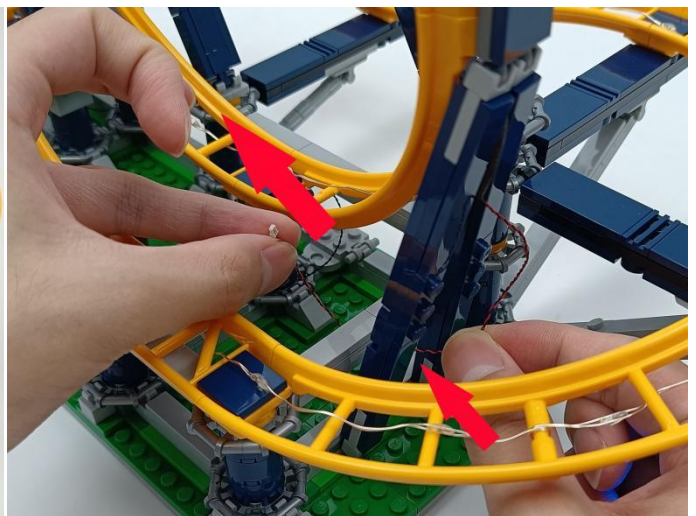
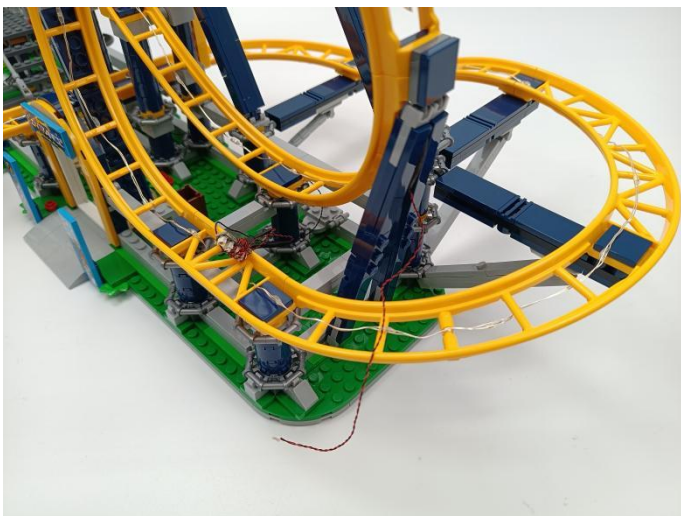
151



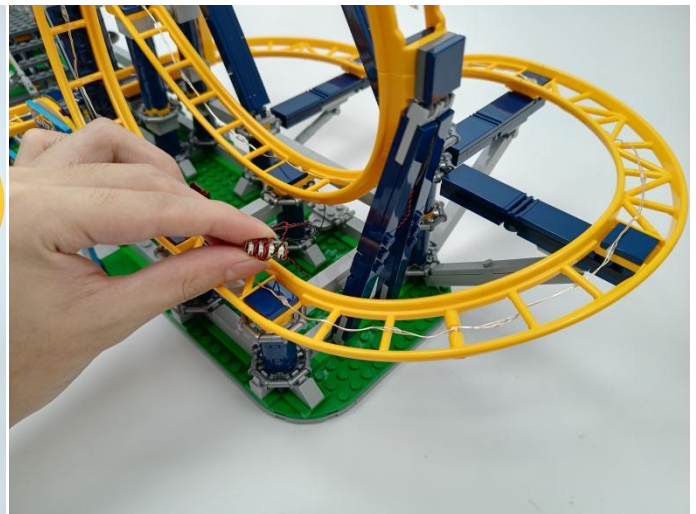
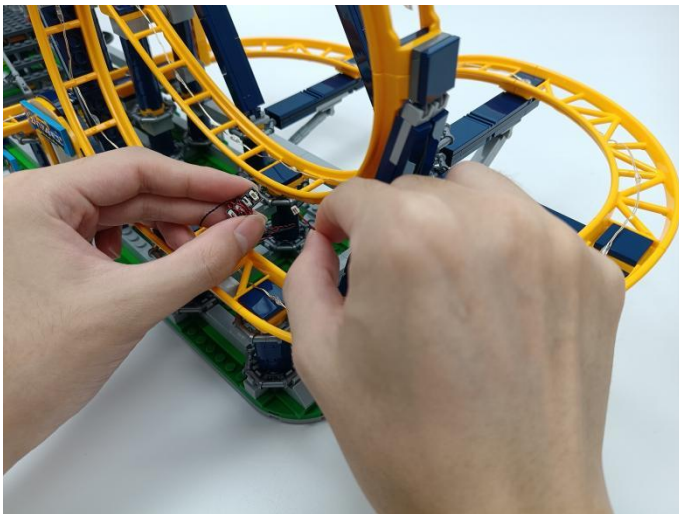
152



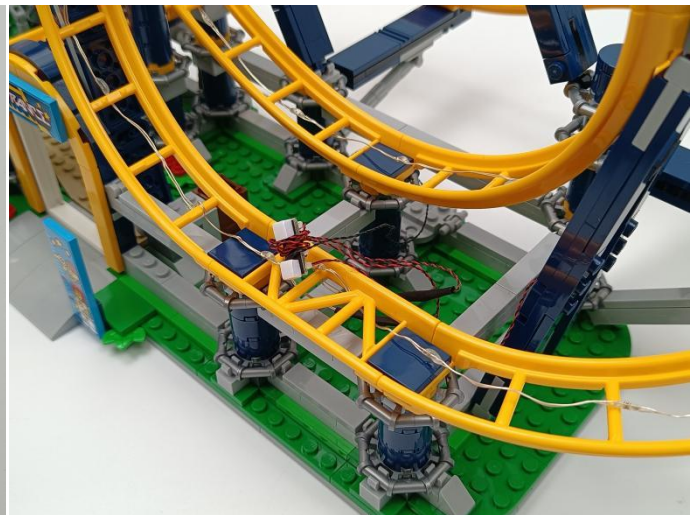
153



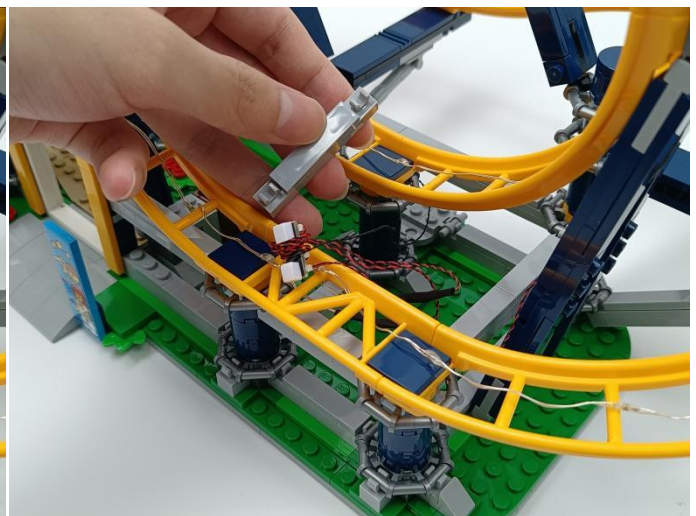
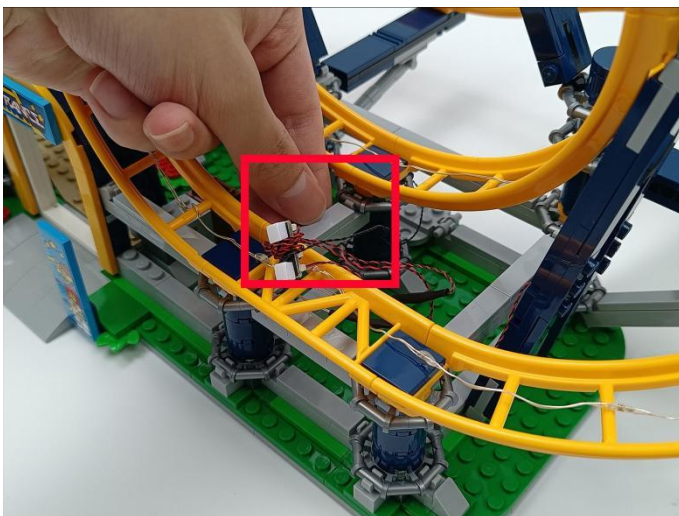
154



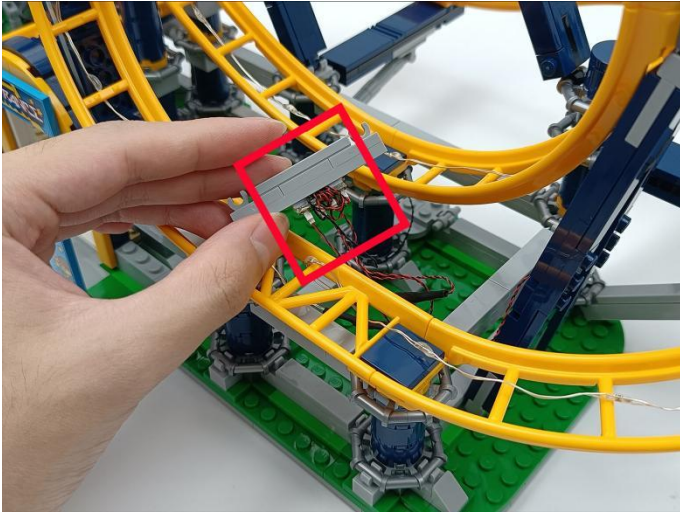
155



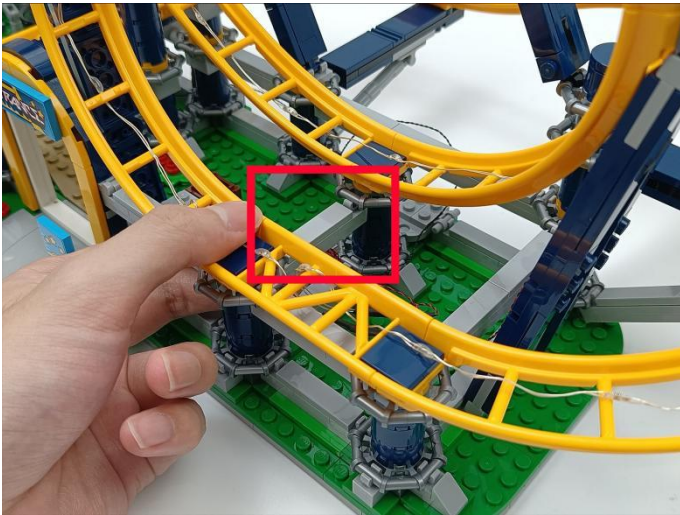
156



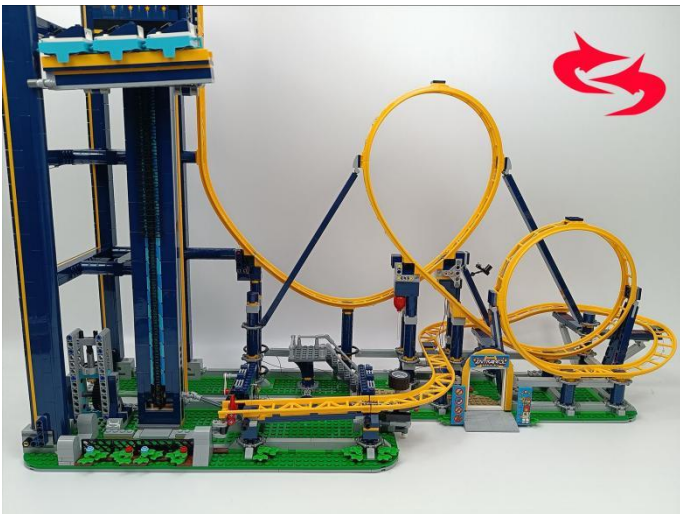
157



158



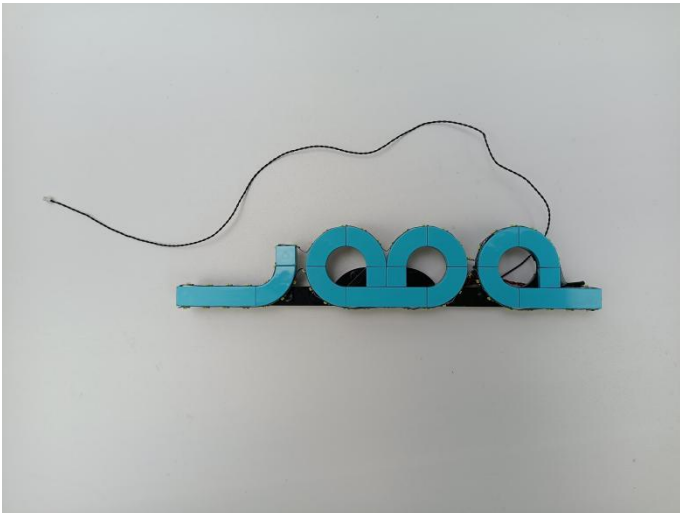
159



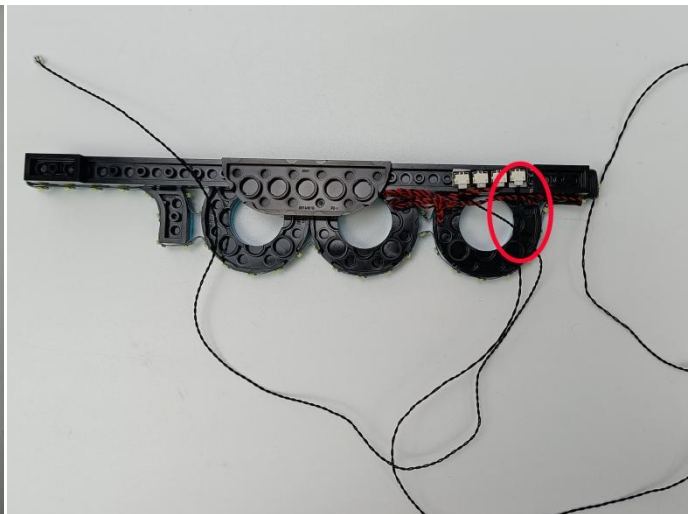
160



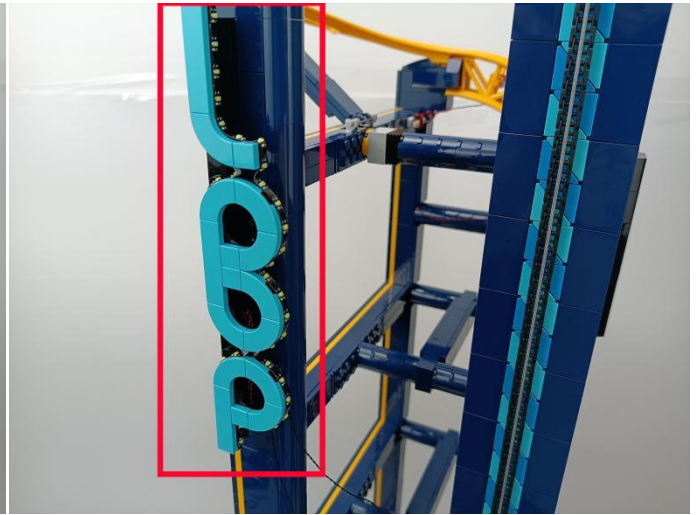
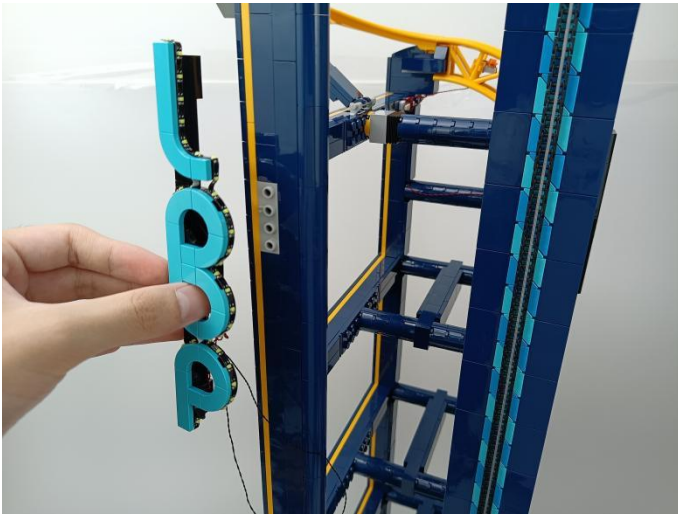
161



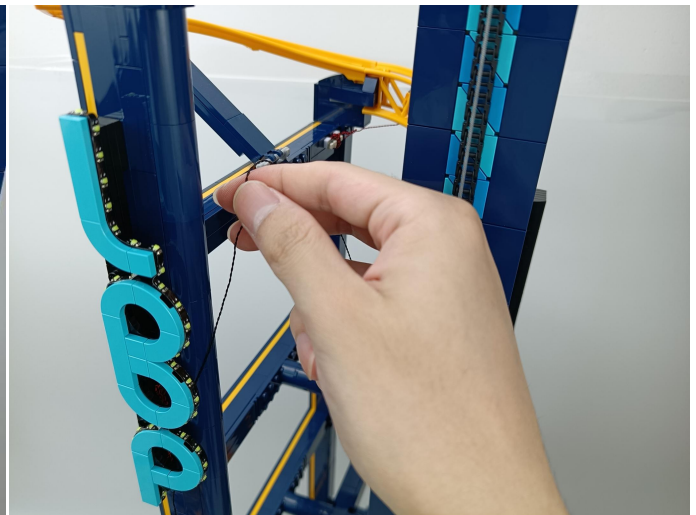
162



163



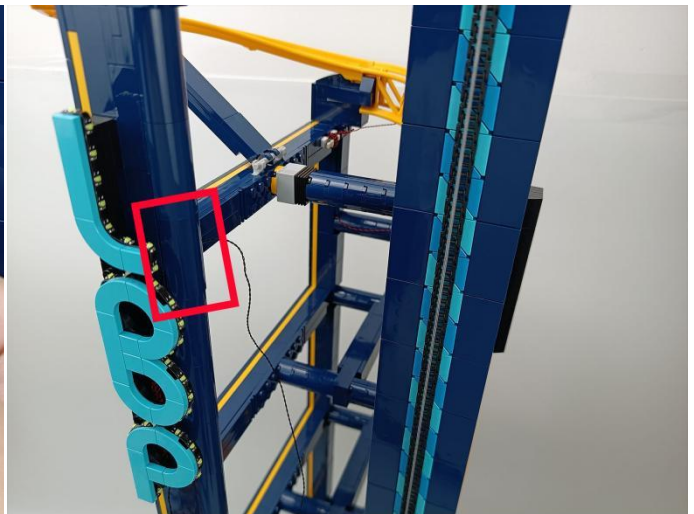
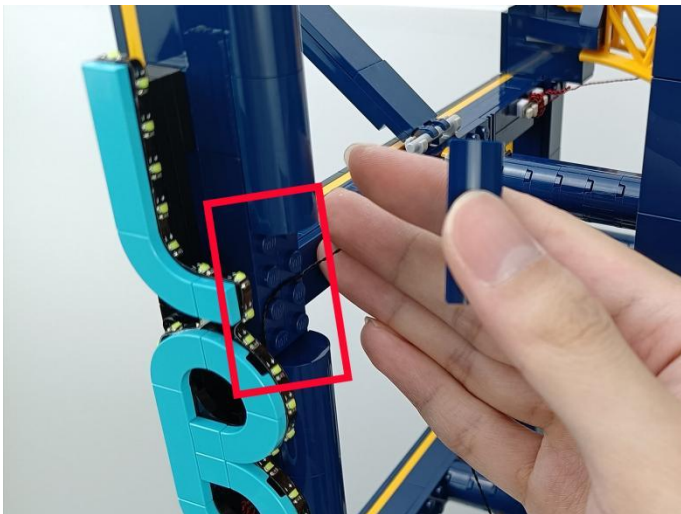
164



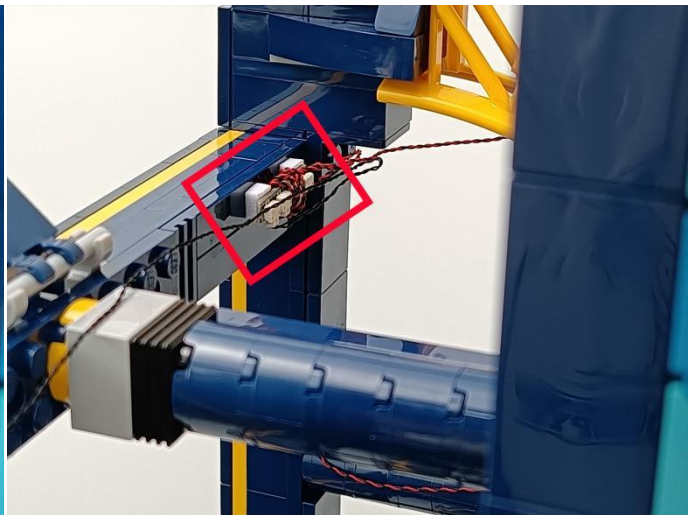
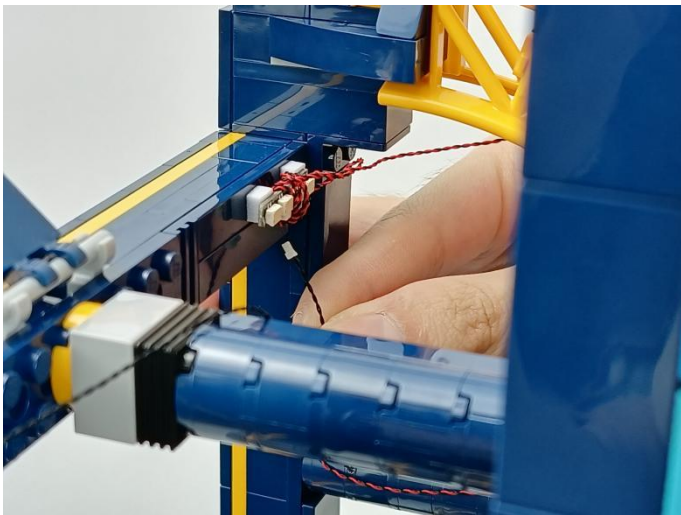
165



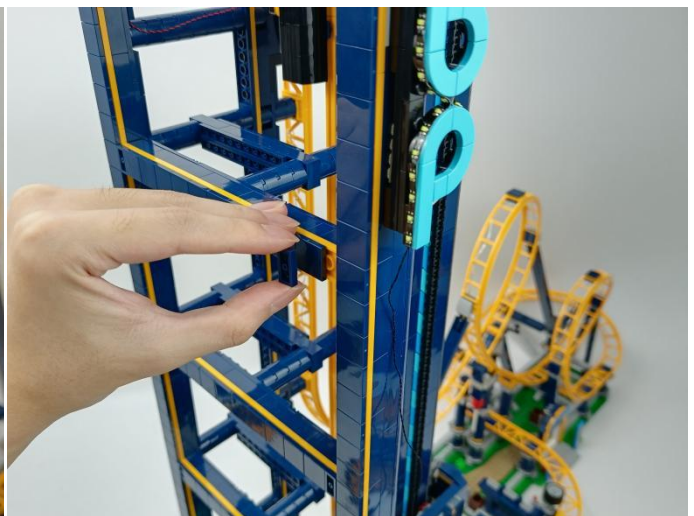
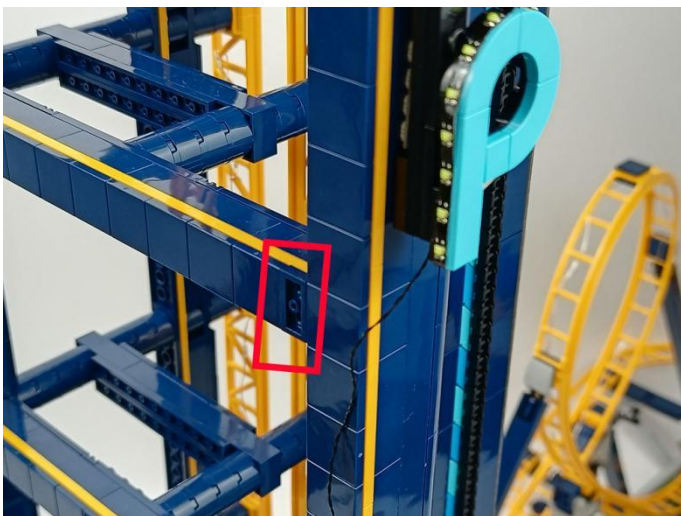
166



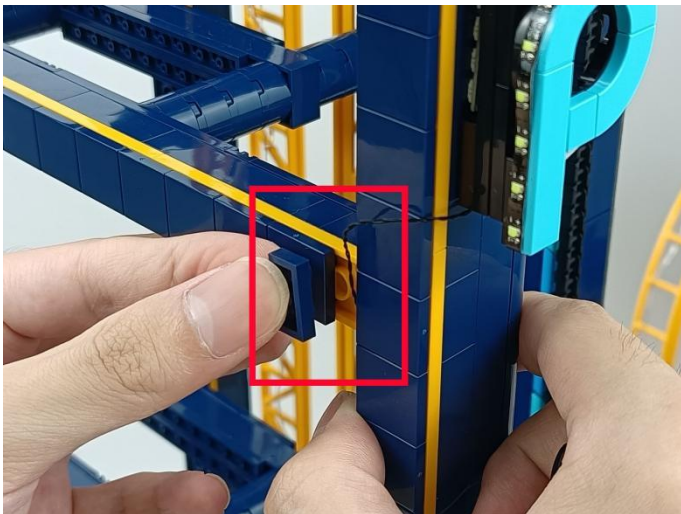
167



168



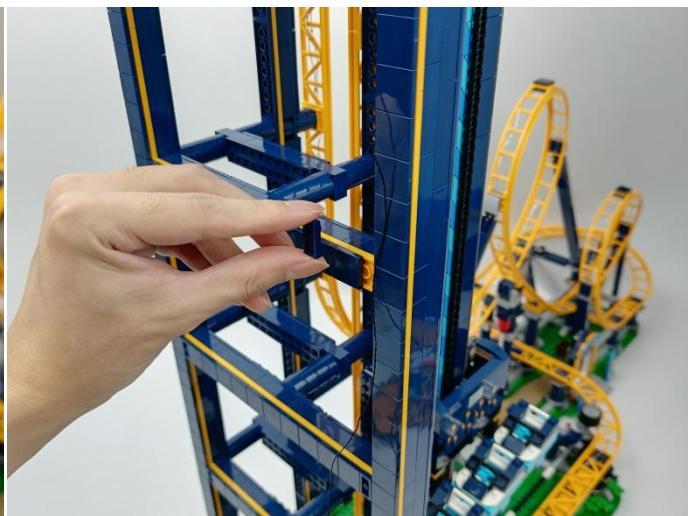
169



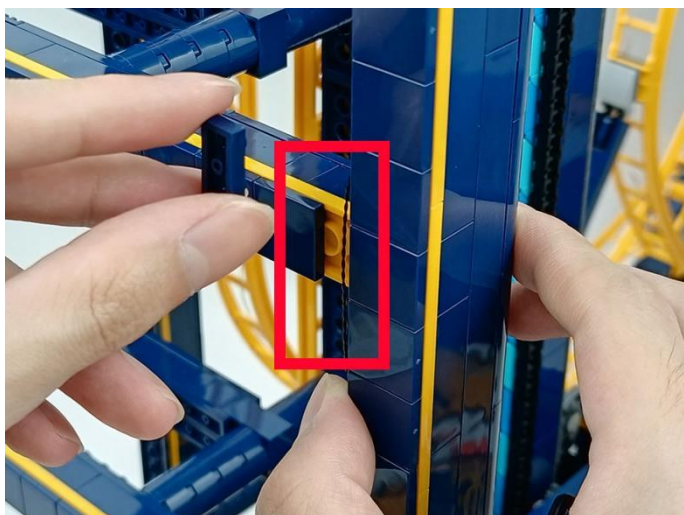
170



171



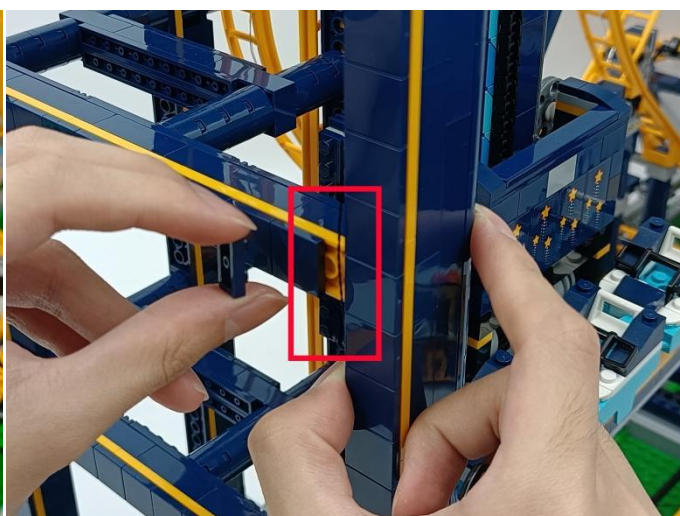
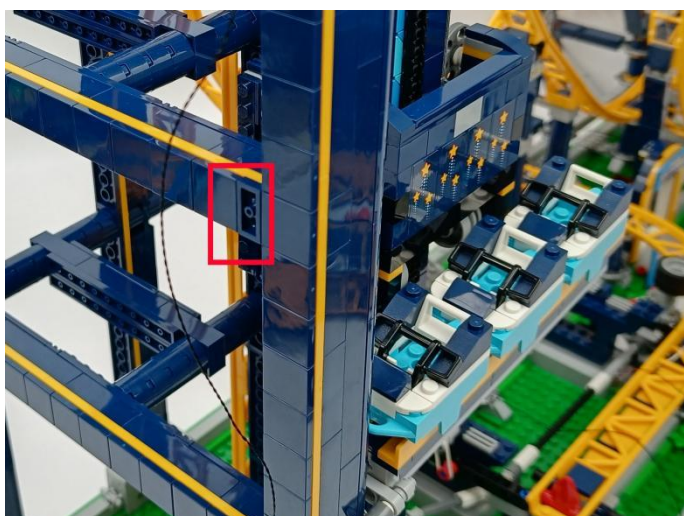
172



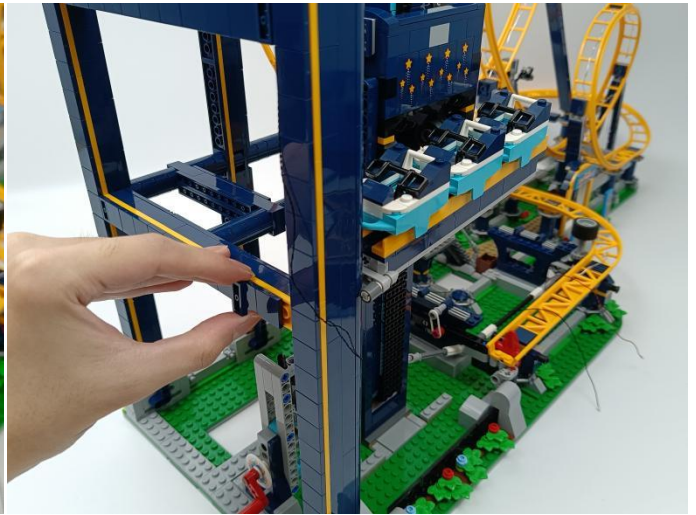
173



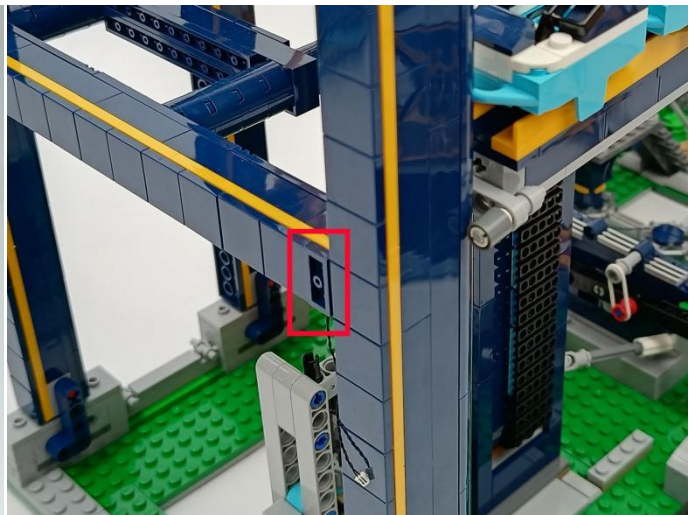
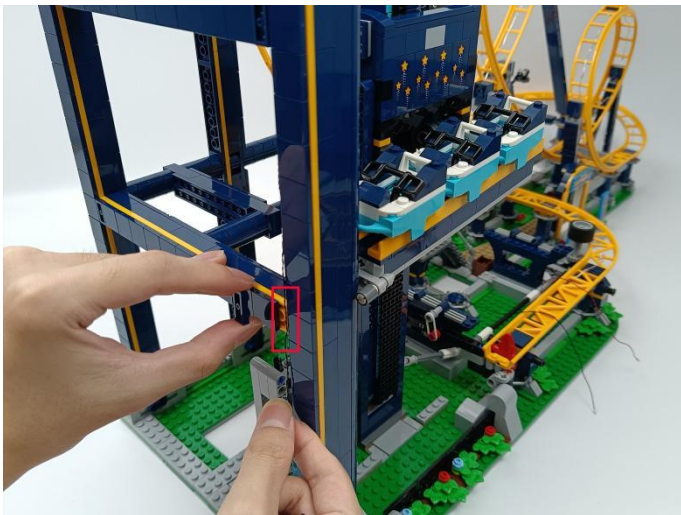
174. Black lines are pressed under the building blocks.



175



176



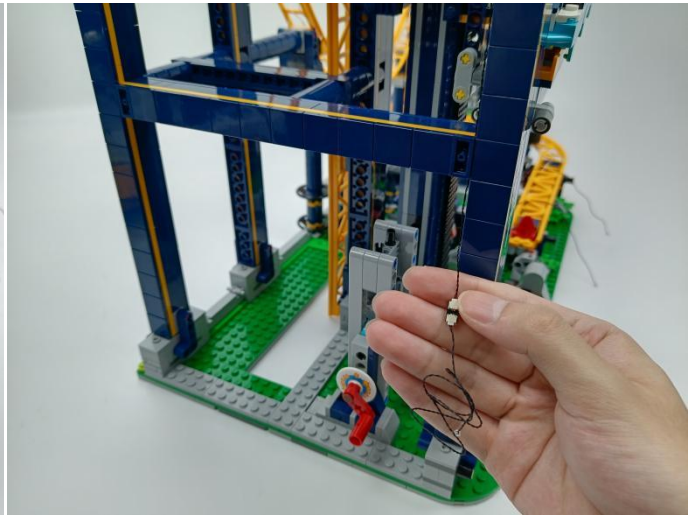
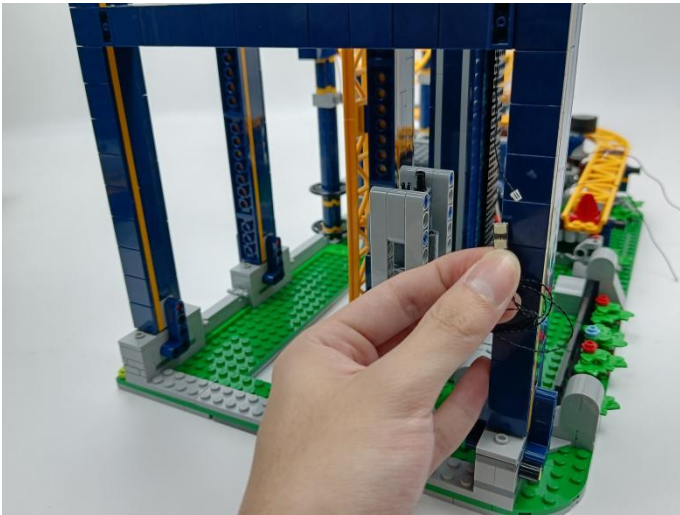
177



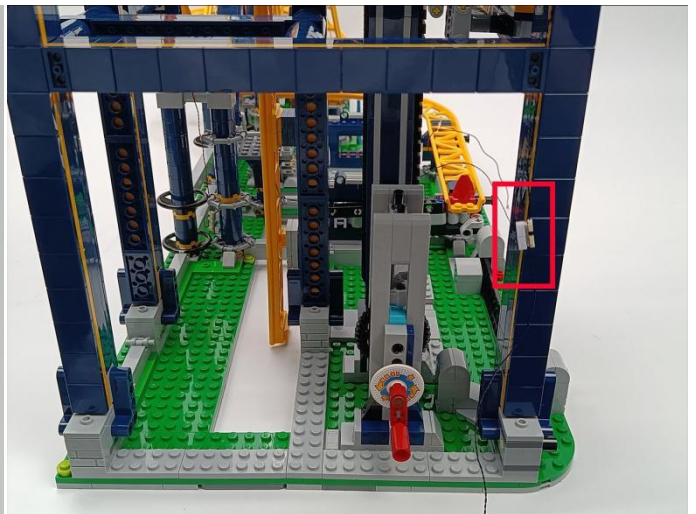
178



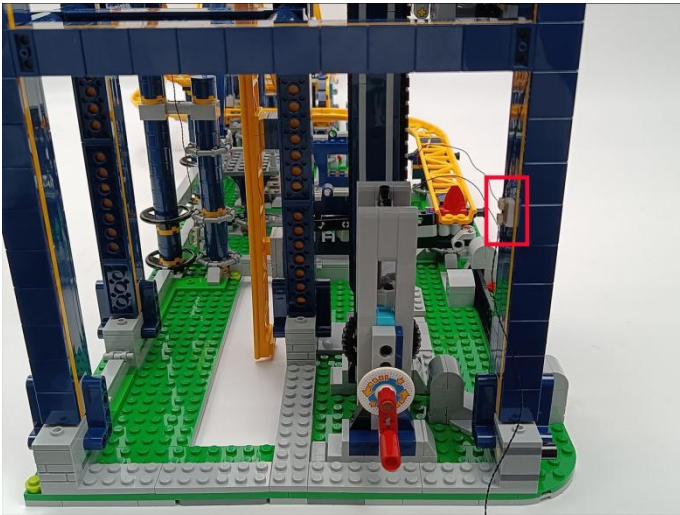
179



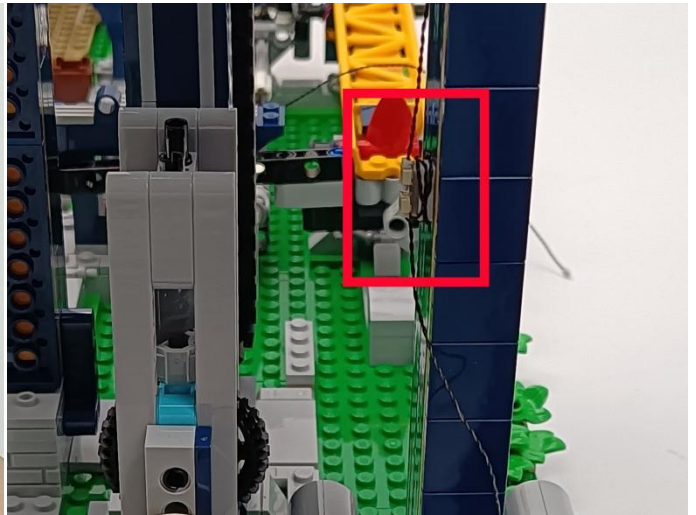
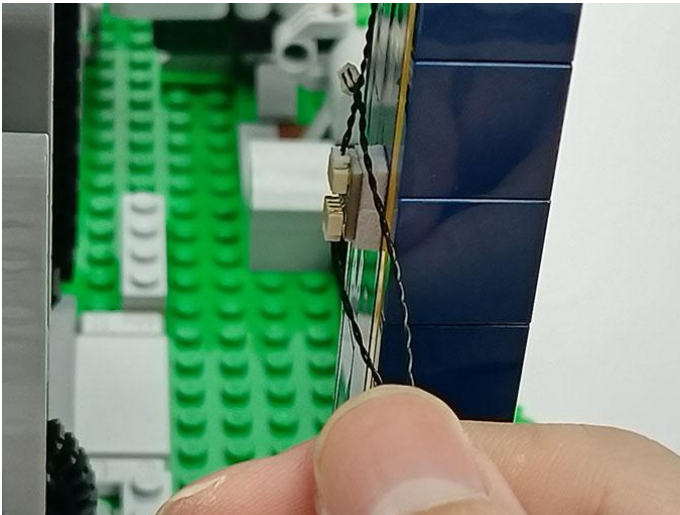
180



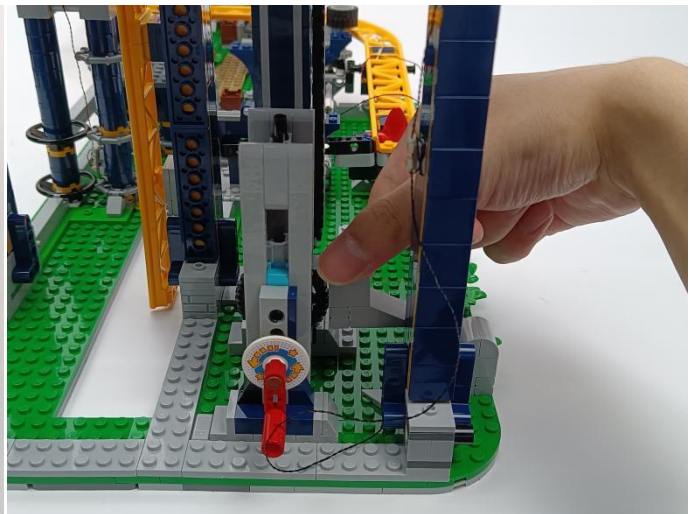
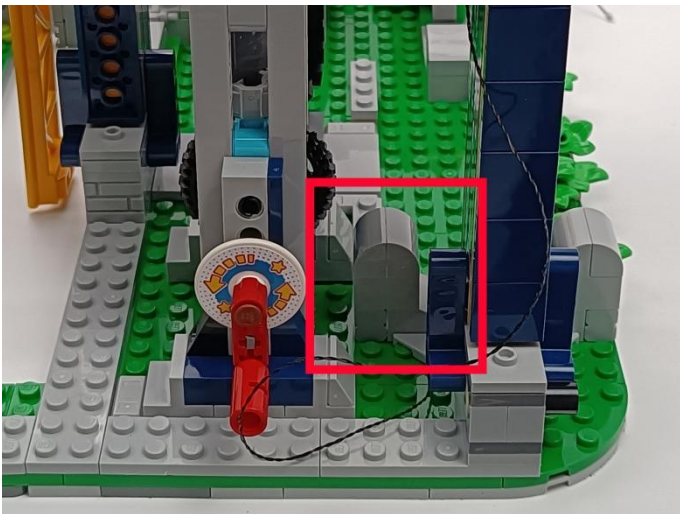
181



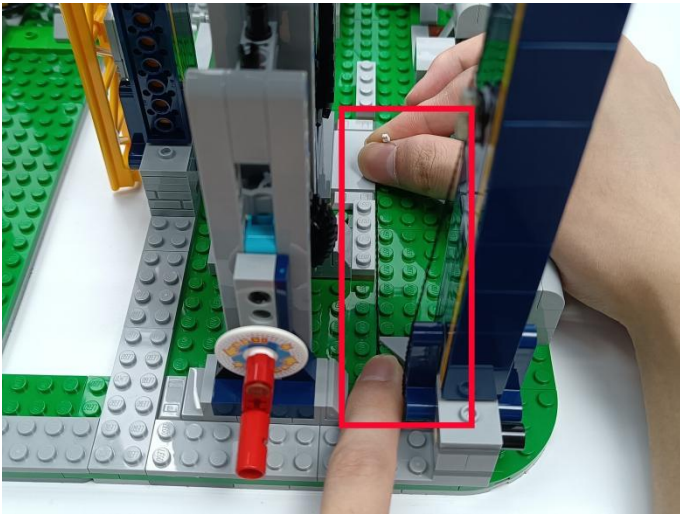
182



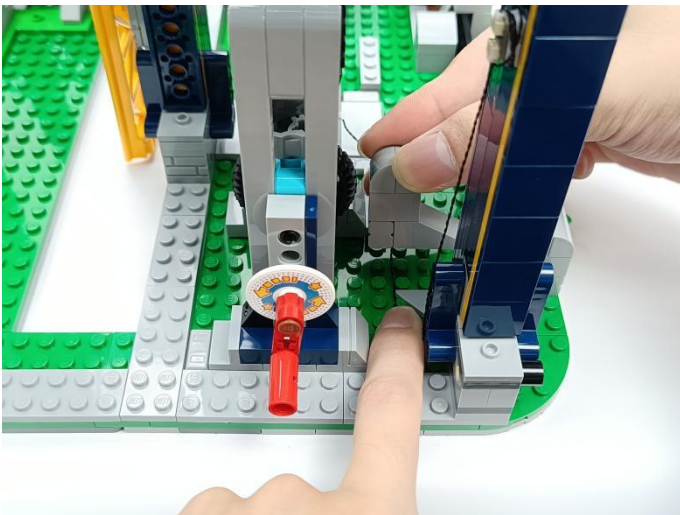
183



184



185



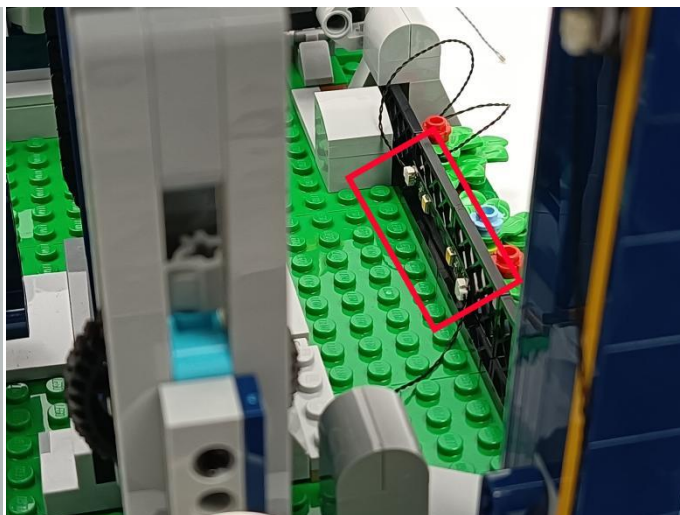
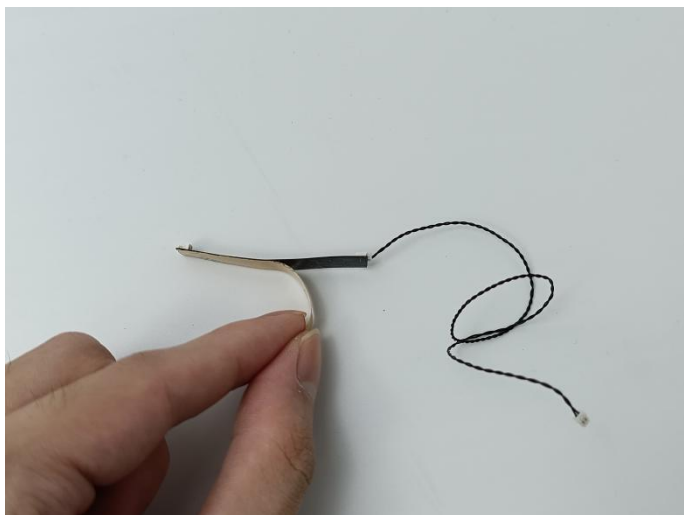
186



187



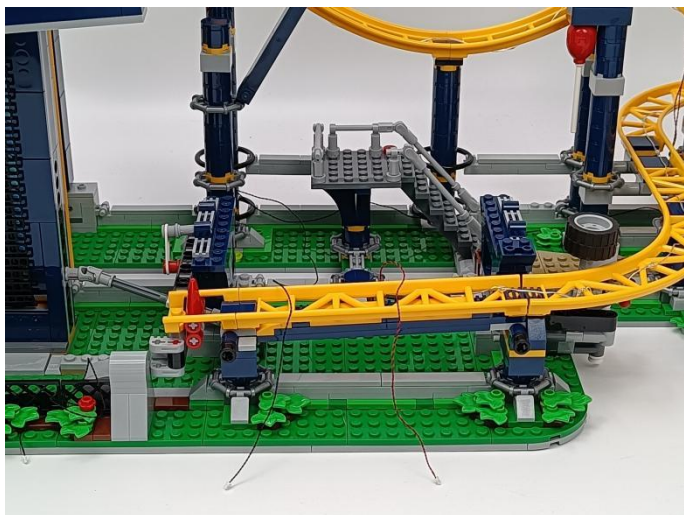
188



189



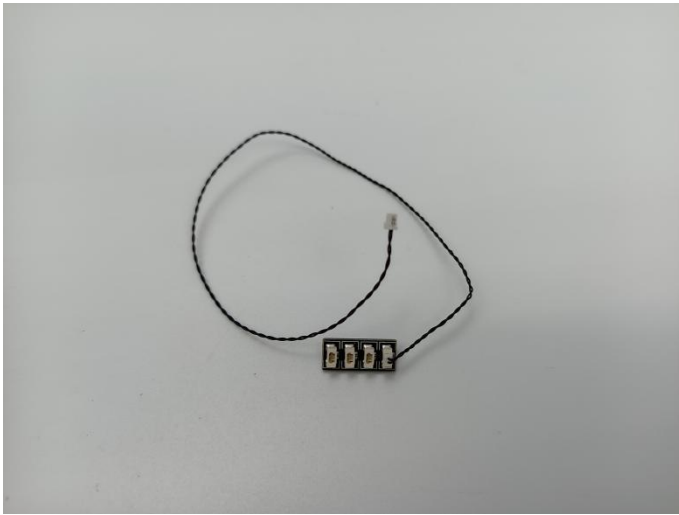
190



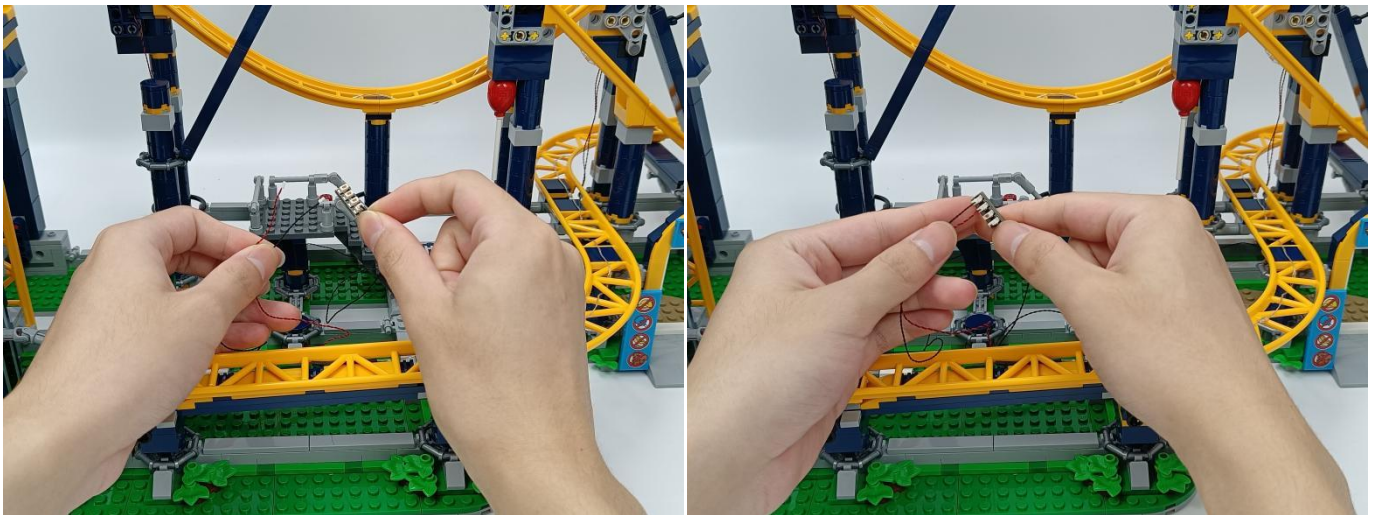
191



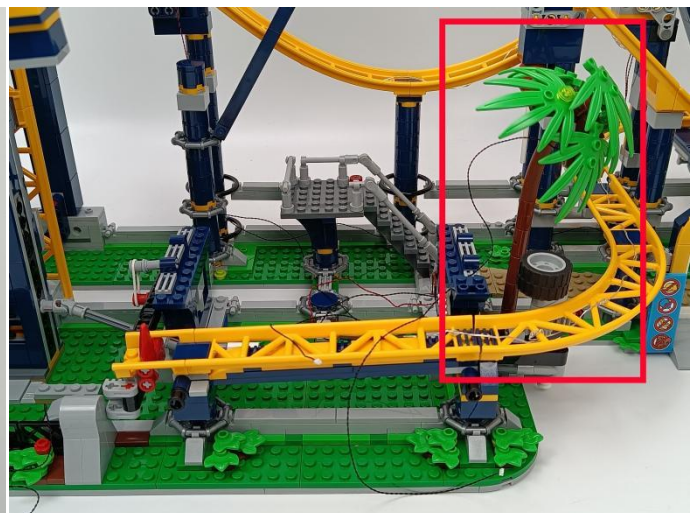
192



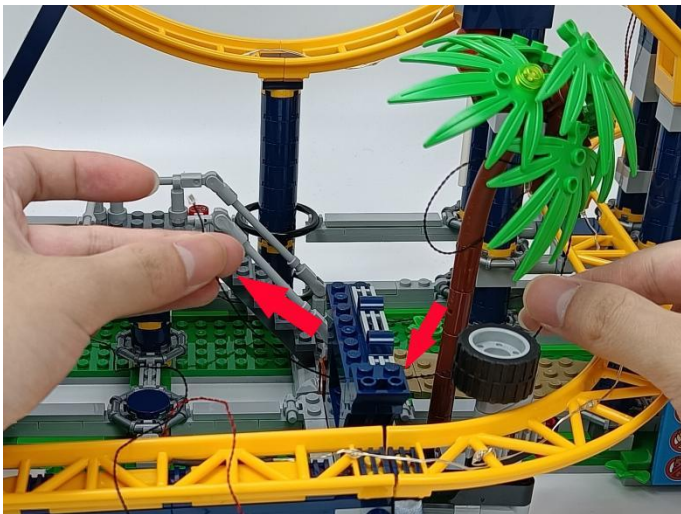
193



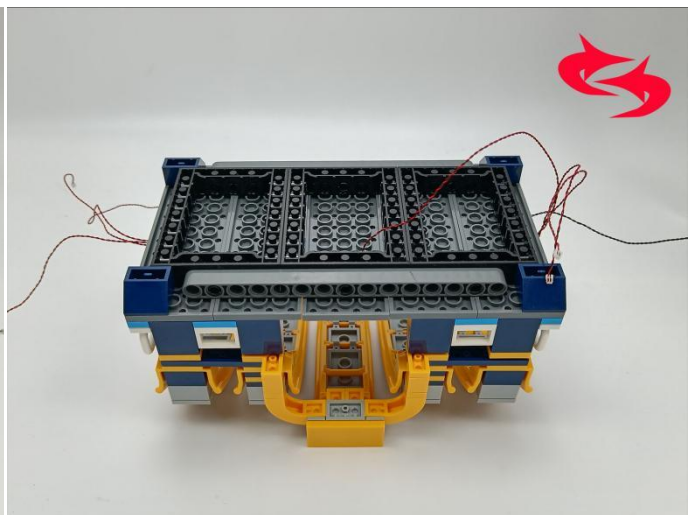
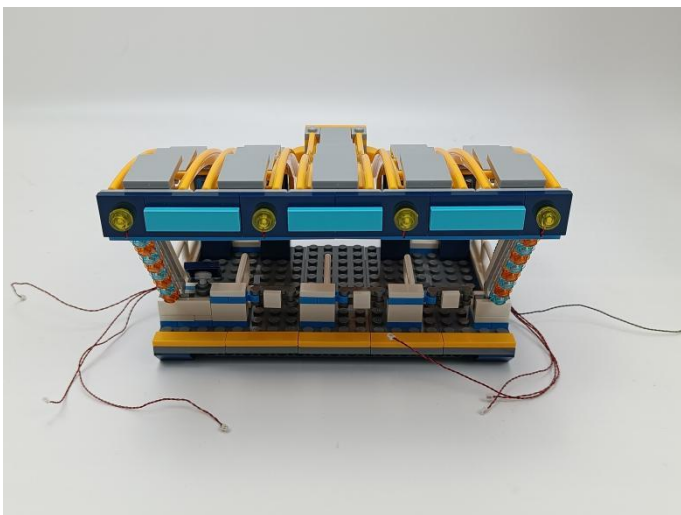
194



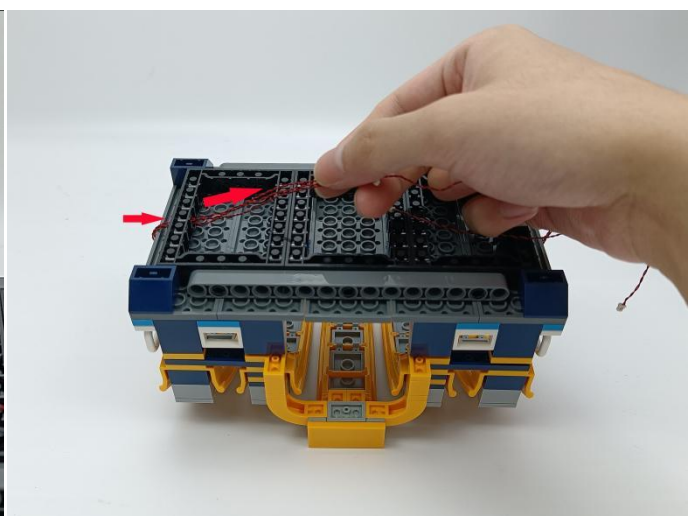
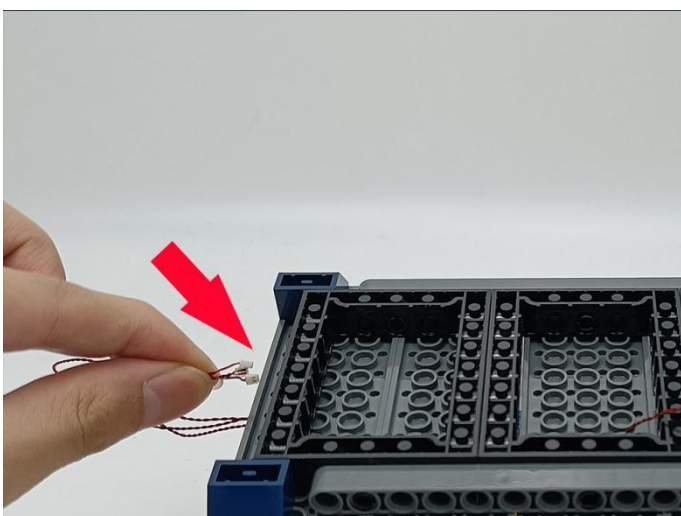
195



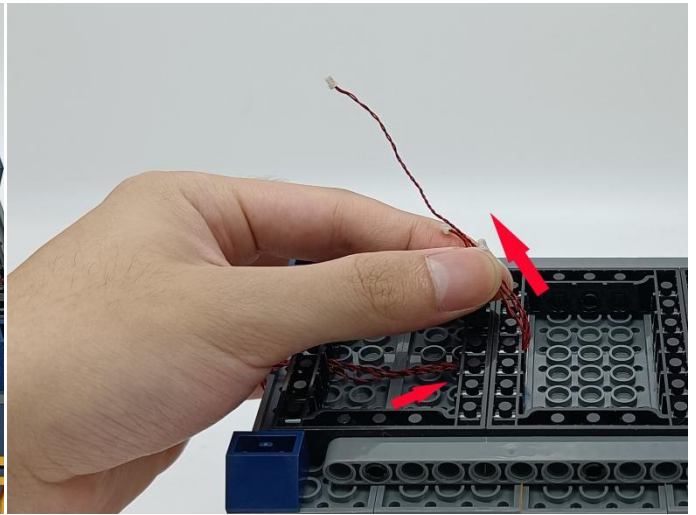
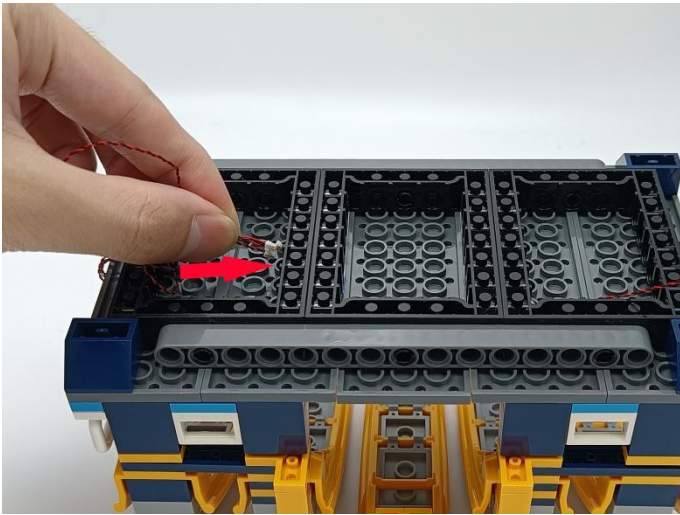
196



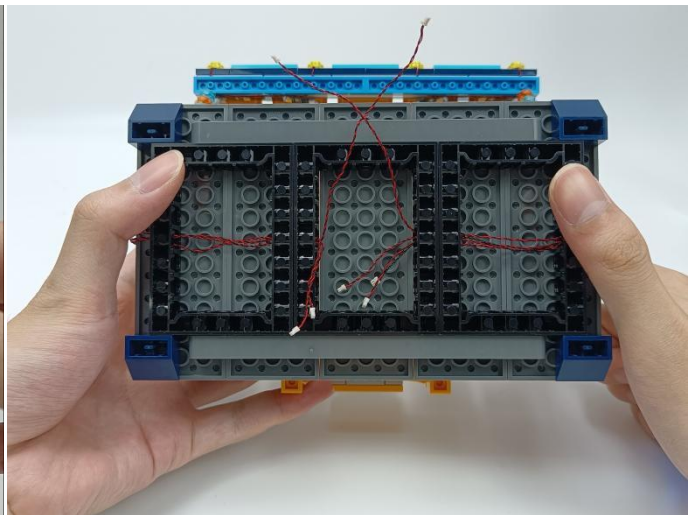
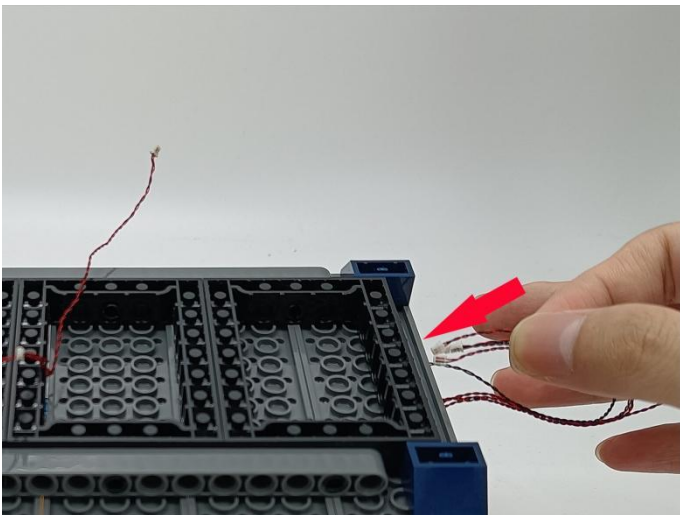
197



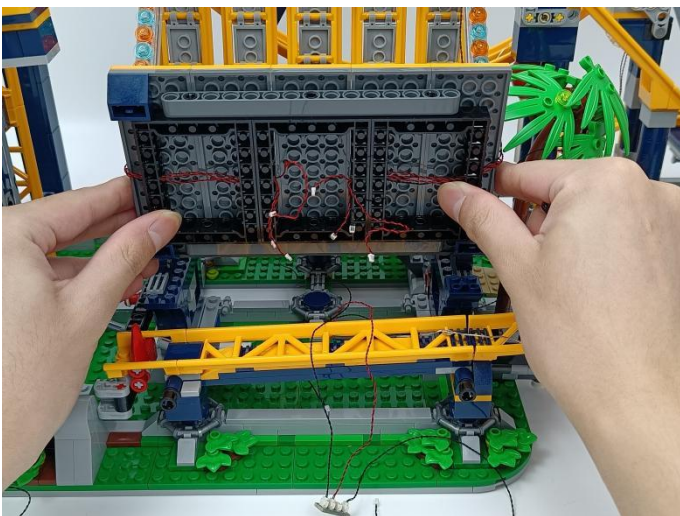
198



199



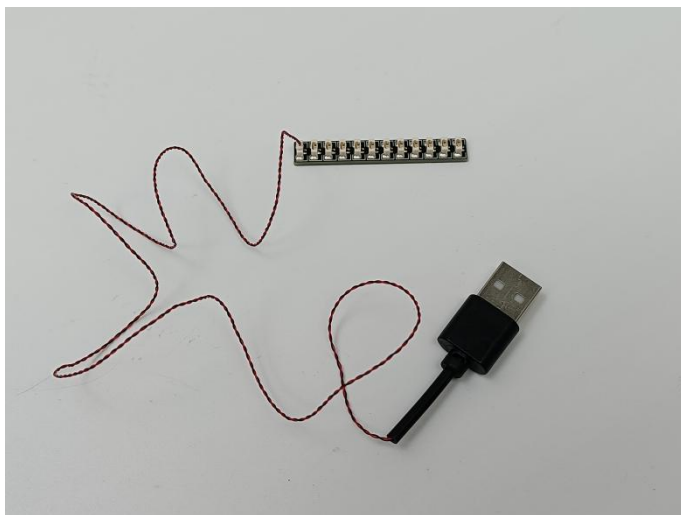
200



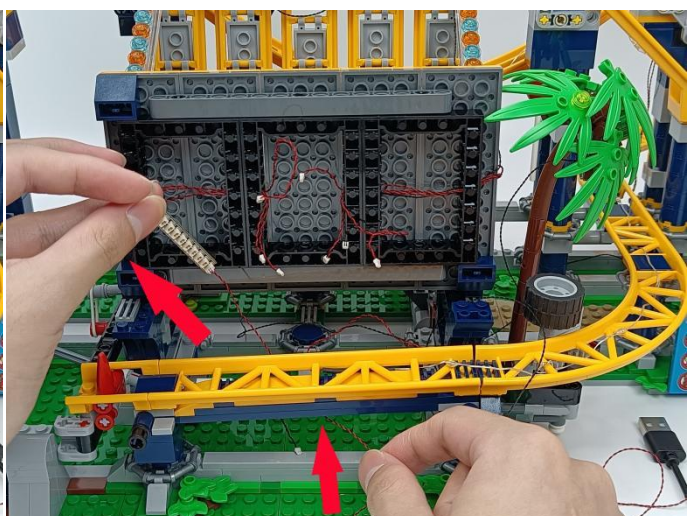
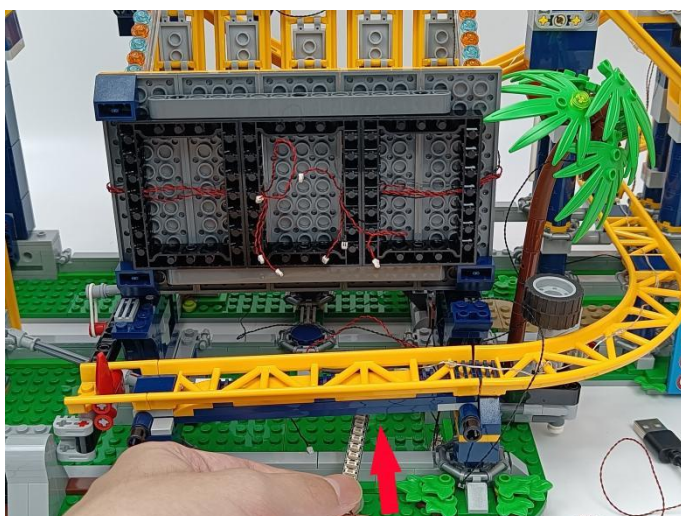
201



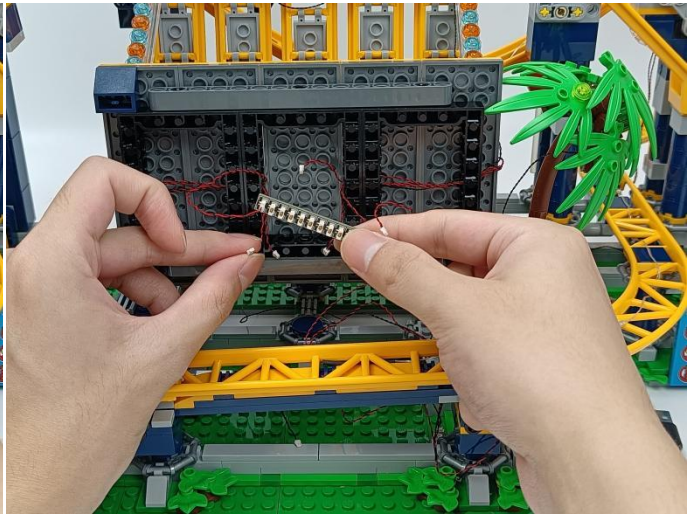
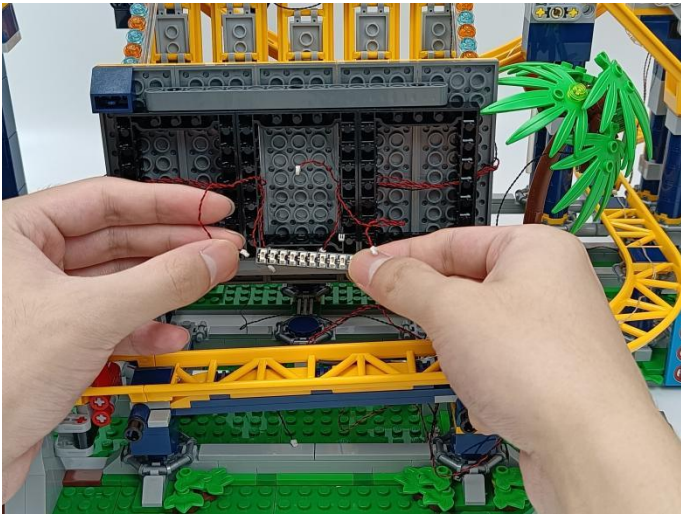
202



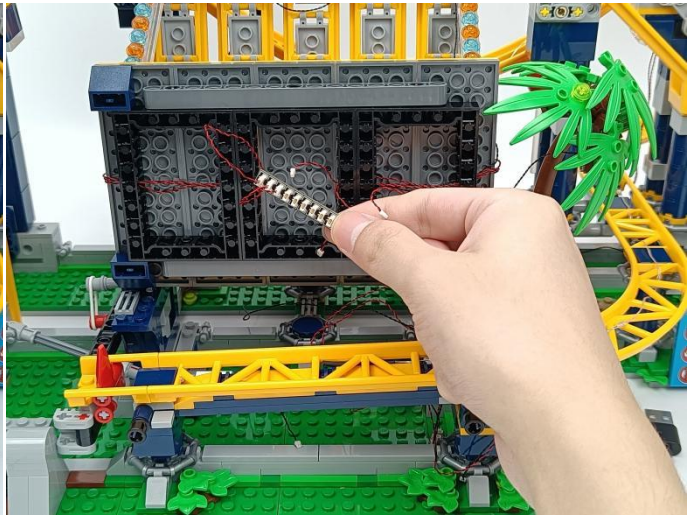
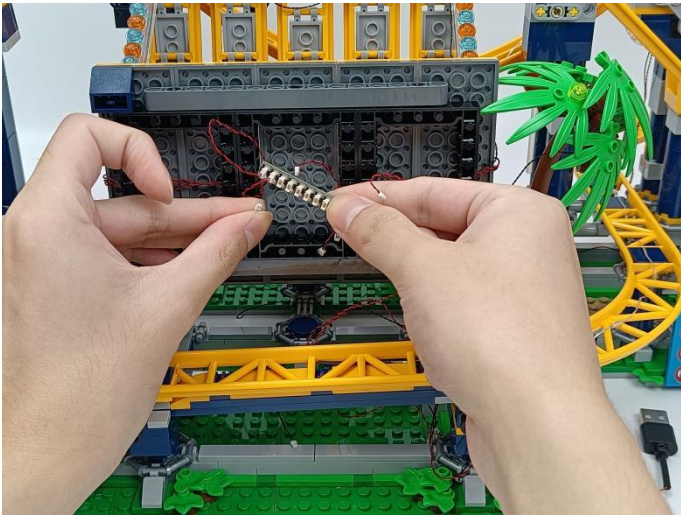
203



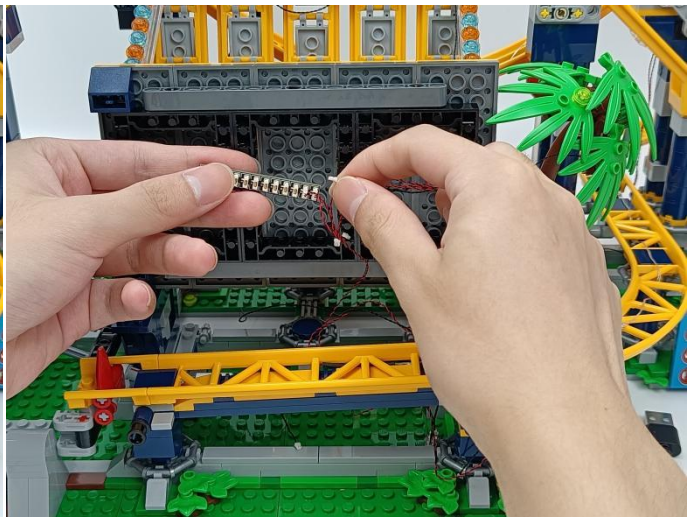
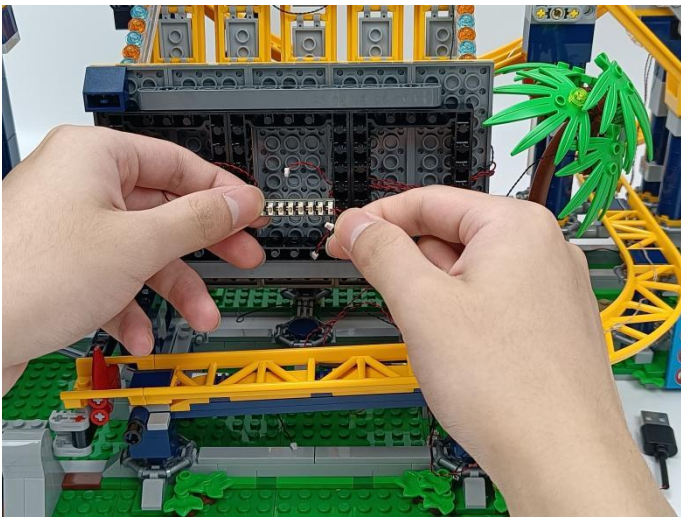
204



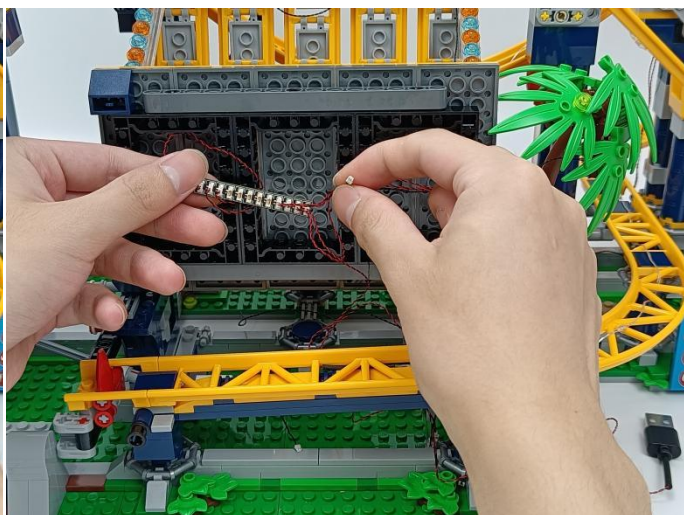
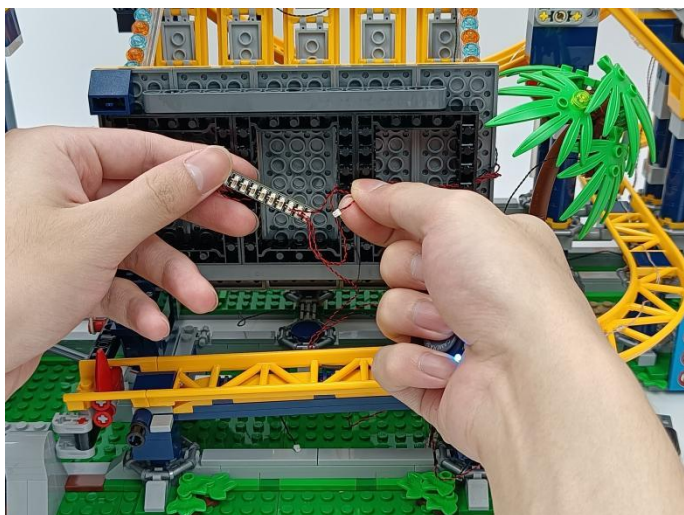
205



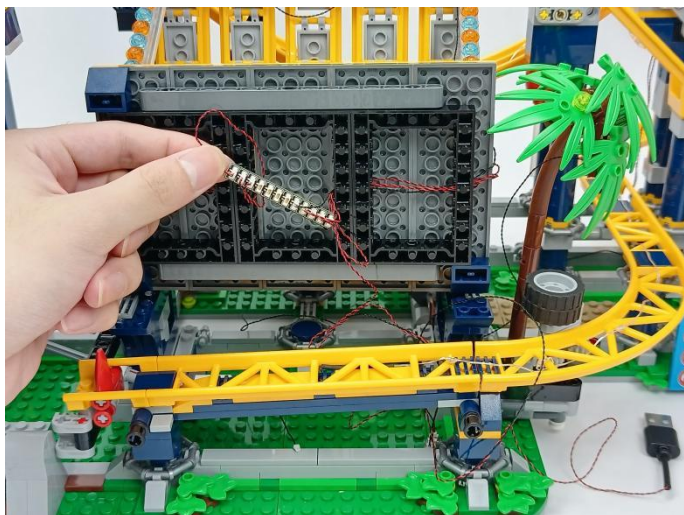
206



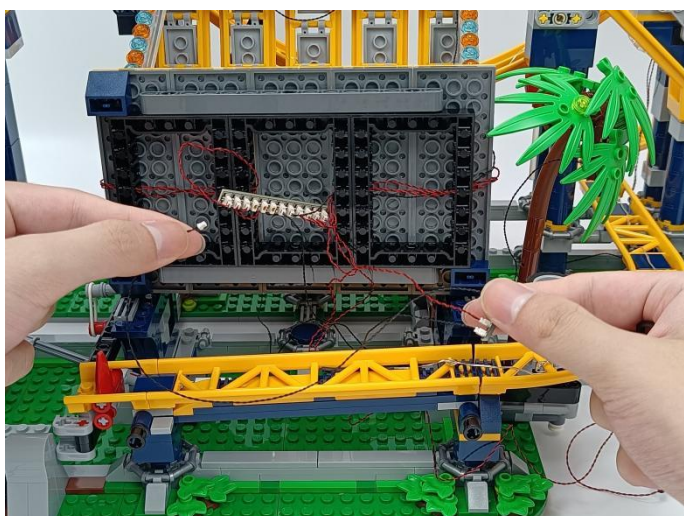
207



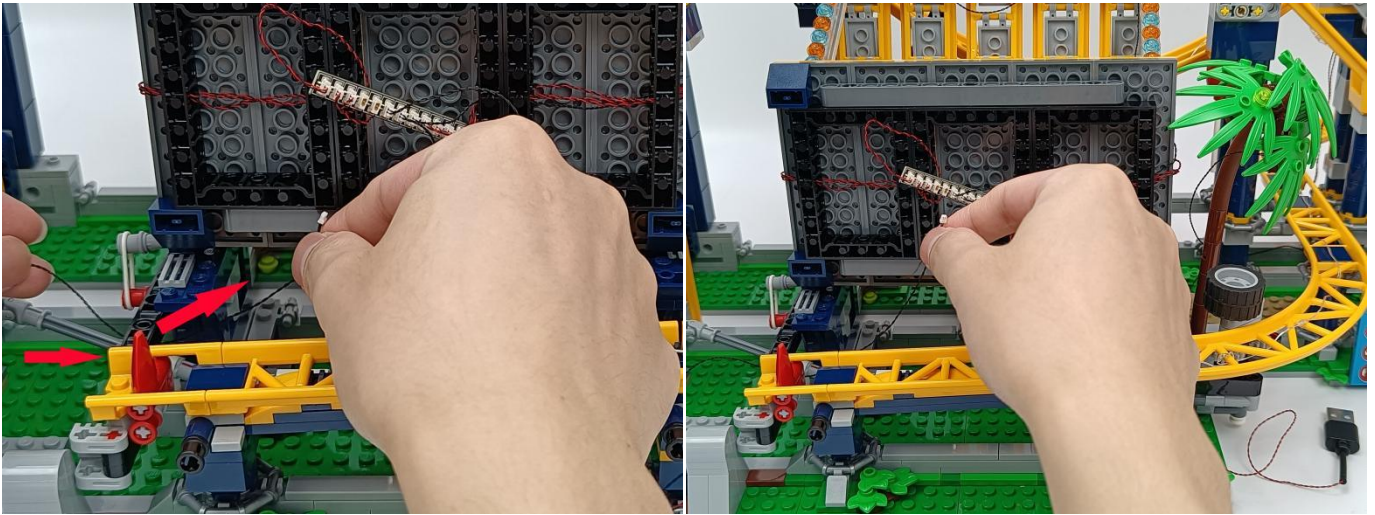
208



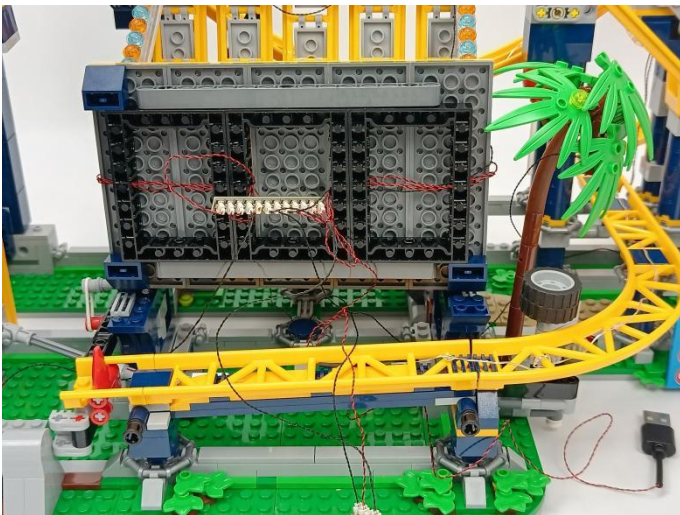
209



210



211



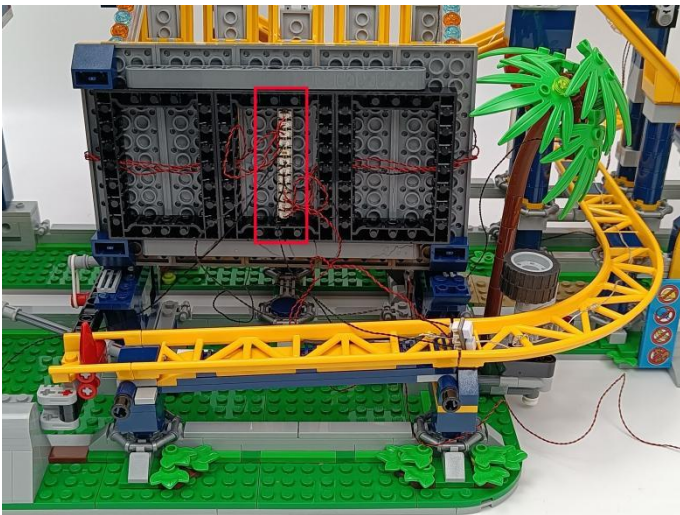
212



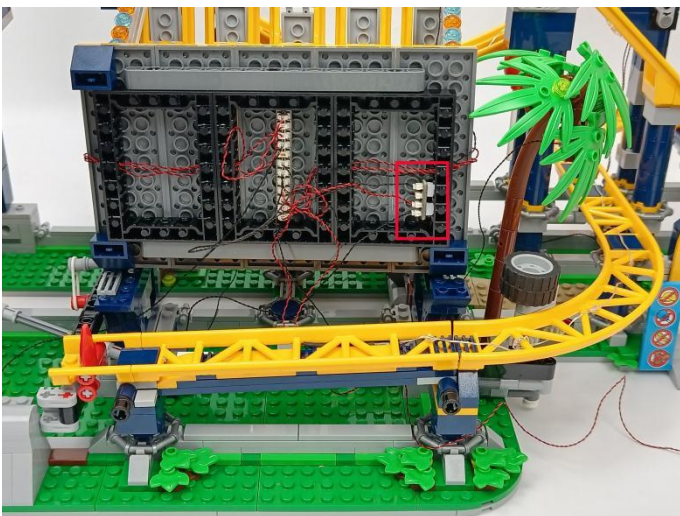
213



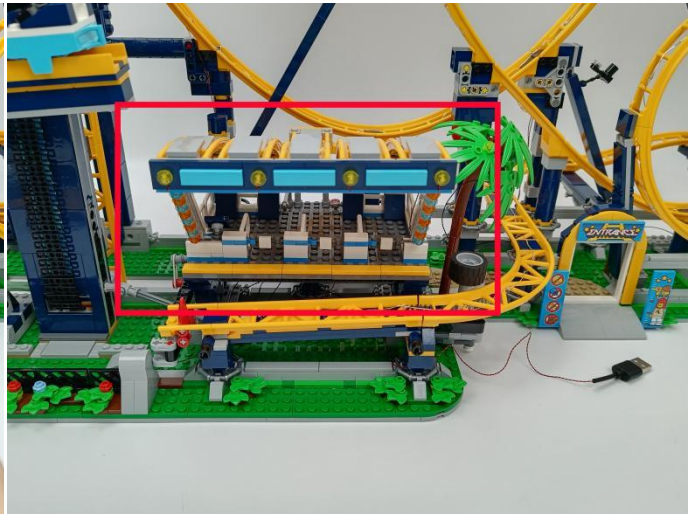
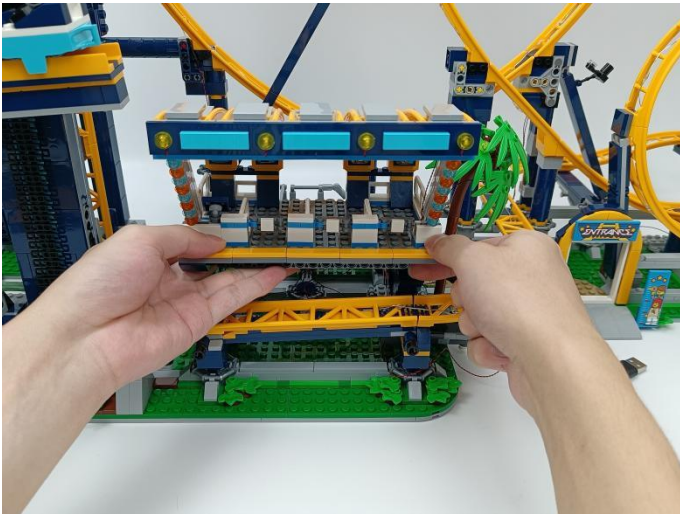
214



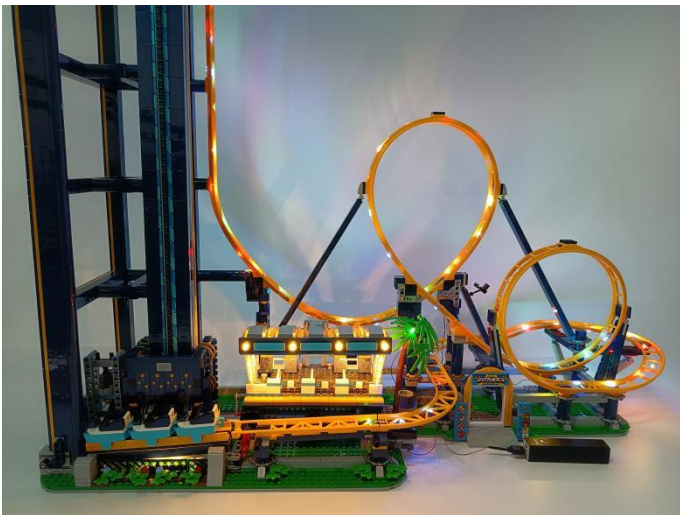
215



216



217



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



The battery box can also power the set. If it is necessary to change the power supply , prepare three AAA batteries, install them in the battery box, turn on the switch on the battery box, remove the plug of the USB Power Cable from the socket of the expansion board,plug the plug of the battery box to the same socket in the expansion board to power the suit as well.

THANKS