



**LIGHT<sup>MY</sup>  
BRICKS**



**LEGO<sup>®</sup> EIFFEL TOWER #10307  
LIGHT KIT**

**INSTALLATION GUIDE**

Part 1 of 2

# Light My Bricks



## LEGO® EIFFEL TOWER 10307 INSTALLATION GUIDE

Hi There!

We're here to help you get started on the LEGO®

Eiffel Tower 10307 Light Kit.

This PDF details the instructions for the LED light kit only. If you are wishing to purchase this product, please [click here](#) to view the product page.

If you run into any issues, please refer to the troubleshooting section towards the end of this guide.

Have fun and enjoy!





## PACKAGE CONTENTS:

\* Indicates components which include spares

### Individual Bags



- 28x White 30cm Micro Bit Light \*
- 8x White 15cm Micro Bit Light
- 2x RGB 15cm Bit Light 2.0
- 15x RGB Strip Light 2.0 \*
- 2x White 15cm Bit Light
- 1x 2Pin-3Pin 30cm Connecting Cable

### Connecting Cables



- 1x 5cm Connecting Cable
- 4x 15cm Connecting Cable
- 8x 30cm Connecting Cable \*
- 5x 50cm Connecting Cable \*
- 1x 120cm Connecting Cable

### RGB Connecting Cables



- 10x RGB 15cm Connecting Cable
- 6x RGB 30cm Connecting Cable \*

### Mixed Components 1



- 4x 2-Port Expansion Board
- 3x 6-Port Expansion Board
- 36x Adhesive Square \*

### Mixed Components 2



- 5x 8-Port Micro Expansion Board \*

### Mixed Components 3



- 2x IR Switch Board
- 1x 3Pin Sparkle Effects Control Board

### USB Power Cable



- 2x USB Power Cable  
(Power Source not Included)



# PACKAGE CONTENTS:

## Mixed Components 4



8x Plate, Round 1x1 Open Stud - Black  
 4x Plate, Round 1x1 with Bar Handle - Black  
 4x Tile, Modified 1x1 with Open O Clip - Black  
 4x Bracket 1x1 - 1x1 Inverted - Dark Bluish Gray

## Mixed Components 5



8x Brick 1x2 - Black

## Mixed Components 6



8x Tile 1x6 - Black

## Mixed Components 7



4x Plate 1x6 - Black

## Light String Warm White 15 LED 3 Pin



6x Light String 15 LED 3Pin - Warm White

## Light String Warm White 15 LED 3 Pin



5x Light String 15 LED 3Pin - Warm White

## RGB Components

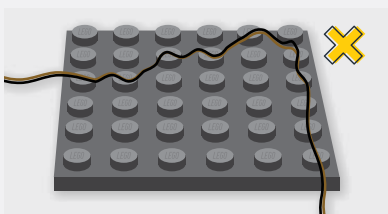
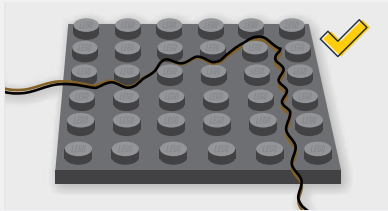


1x RGB Remote Control  
 3x RGB Control Board  
 1x RGB 6-Port Expansion Board

## Contents

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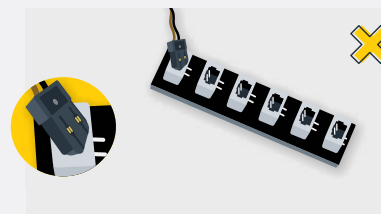
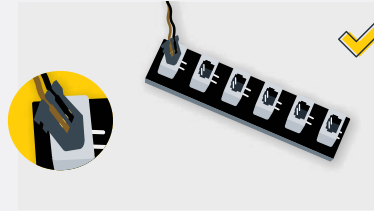
## Before You Begin



### Laying cables in between and underneath bricks

Cables can fit in between and underneath LEGO® bricks, plates, and tiles providing they are laid correctly between the LEGO® studs. Do NOT forcefully join LEGO® together around cables; instead ensure they are laying comfortably in between each stud.

*CAUTION: Forcing LEGO® to connect over a cable can result in damaging the cable and light.*

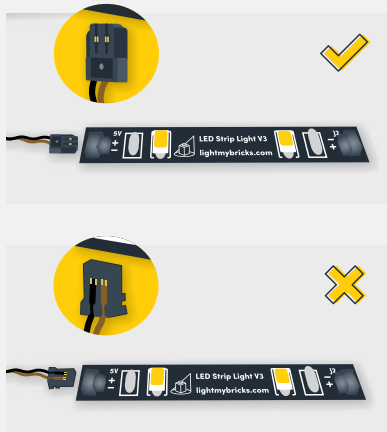


### Connecting Cable Connectors To Expansion Boards

Take extra care when inserting connectors to ports of Expansion Boards. Connectors can be inserted only one way. With the expansion board facing up, look for the soldered “=” symbol on the left side of the port. The connector side with the wires exposed should be facing toward the soldered “=” symbol as you insert into the port. If a plug won’t fit easily into a port connector, do not force it.

*Incorrectly inserting the connector can result in bent pins inside the port or possible overheating of the expansion board when connected.*

## Before You Begin



### 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.



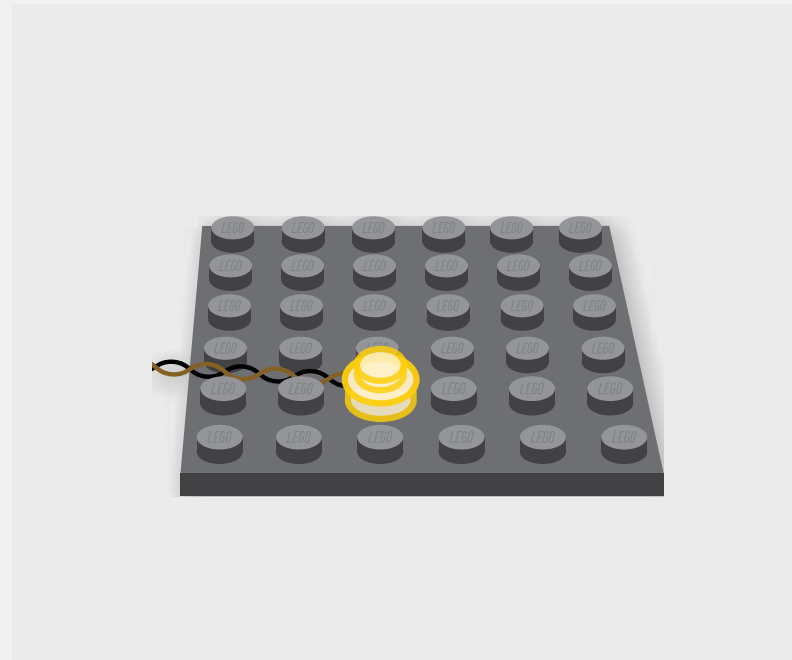
### Connecting Micro Cable Connectors To Micro Expansion Board Ports

Take extra care when inserting the micro connectors to micro ports of Micro Expansion Boards. Connecting Micro Bit Lights to Micro Expansion Boards is similar to connecting lights and cables to Strip Lights. With the expansion board 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, do not force it. Use your fingernail to push the plastic part of the connector to the micro port.

## Before You Begin

### Installing Bit Lights Under Lego® Bricks And Plates

When installing Bit Lights under LEGO® pieces, ensure they are placed the correct way up (Yellow LED component exposed). You can either place them directly on top of LEGO® studs or in between.





# Before You Begin

## The Symbols Used In This Guide

When going through the following guide you will come across symbols and formats that will assist with the installation of your light kit. Take notice of them as each has a specific purpose.

### Light Kit Component

This is the most important image format as it indicates which part to use from the Light Kit. Make sure you pay close attention to which part is shown.

White 30cm Bit Light



### Connect

Used when you need to connect a LEGO piece or LMB component.



### Disconnect

Used when you need to remove a LEGO piece/ section or LMB component.



### Directional

Used to show where to route cables, place components, or move them.



### Bend/Pivot

Used when a component needs to be bent, or part folded or pivoted.



### Turn/ Flip

Will be found in the top left corner when the set needs to be rotated or flipped.



### Twist/ Braid

Seen when a set of cables need to be grouped and twisted together.



### Power On Test

Found at the end of a major step to test the lights. Will be located in the top left corner.



### Note

Notes will be found alongside the instruction photos and explain what to do.



# Before You Begin

## Repeat Step

Repeat the previous step eg. Make a spotlight, then make a second spotlight.

x2

## Connect Focus

Used to highlight a hard to see area where a component is being connected.



## Disconnect Focus

Used to highlight a hard to see area where a component is being disconnected.



## General Focus

Used to highlight a hard to see area where a component needs to be acted on.



## General Note

This is a sample note that is used anywhere in this guide. It will explain a difficult section where photos are hard to illustrate or easily confused.

## Connect Note

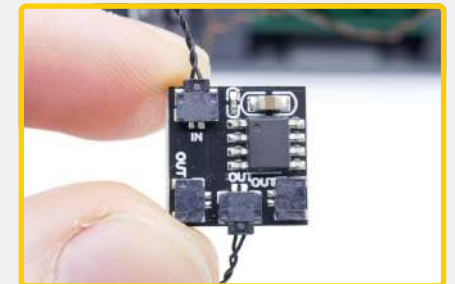
The green coloured note is used when the topic focuses on a component being connected, like the shown Power Bank.

## Disconnect Note

The red coloured note is used when the topic focuses on a component being disconnected or like here, the removed pieces.

**NOTE**

Take the 5cm Connecting Cable from the 4-Port Micro Expansion Board and route it into the "IN" port of the Flicker Effects Board



**NOTE**

Connect to a 5V USB Power Bank, 5V USB Wall Adaptor, or USB to AA Battery Pack (sold separately)



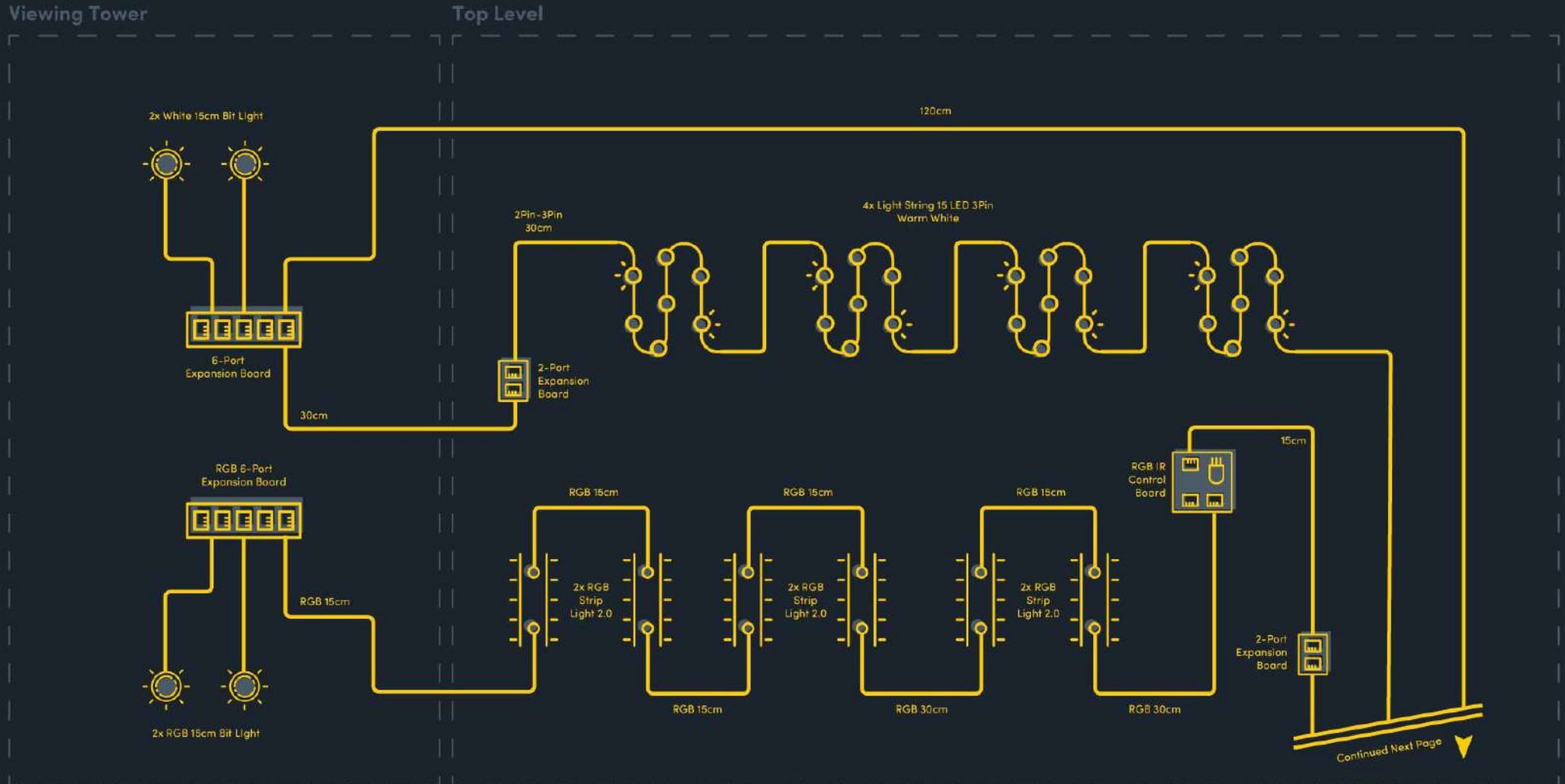
**NOTE**

You should have these parts left over that were removed from the LEGO set





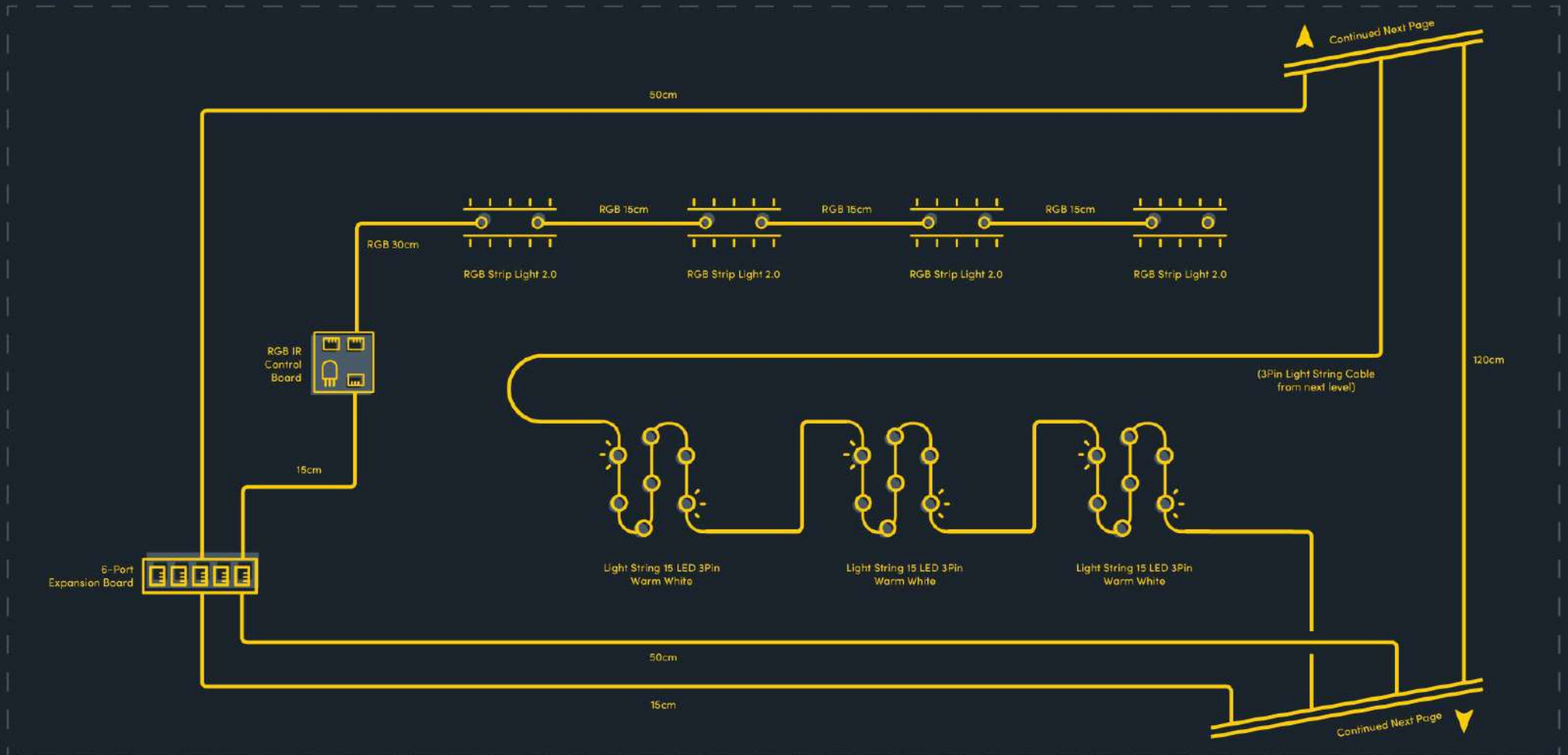
# BLUEPRINT: *Top Level*





# BLUEPRINT: *Middle Level*

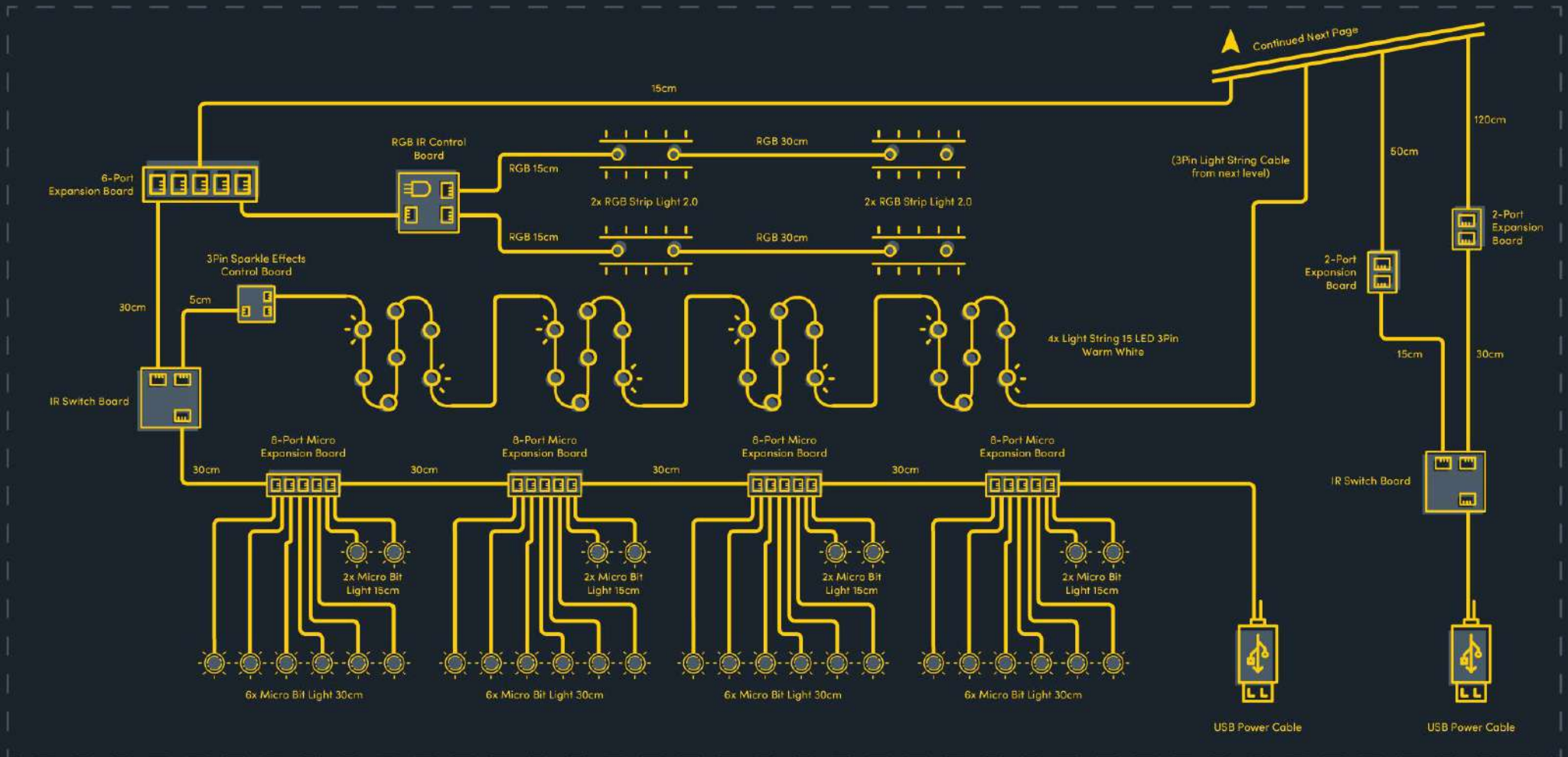
Middle Level





# BLUEPRINT: *Bottom Level*

## Bottom Level





## INSTRUCTIONS: Part 1

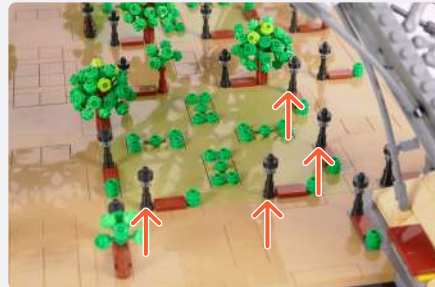
To ensure a smooth installation of your light kit, please read and follow each step carefully. If you run into any issues, please refer to the online troubleshooting guide.

**1**


**NOTE**

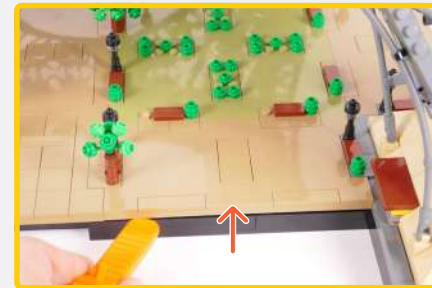
Ensure front side has the Yellow elevator on the left and the Red on the right.


**2**

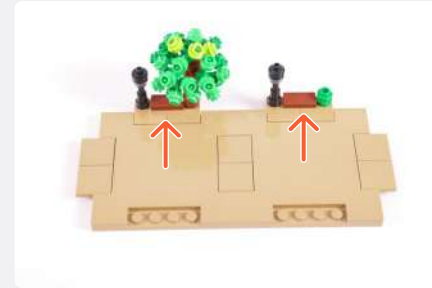
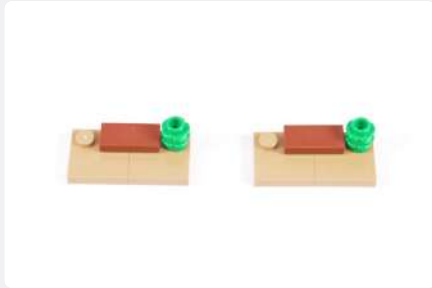
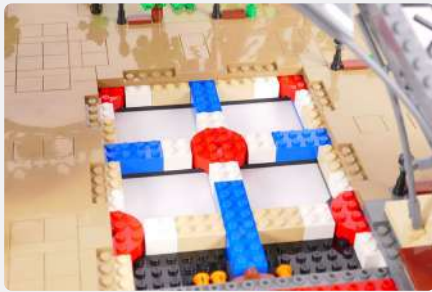

**3**

**4**

**NOTE**

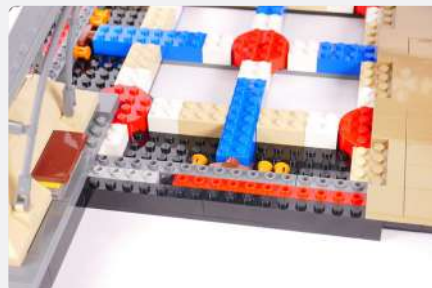
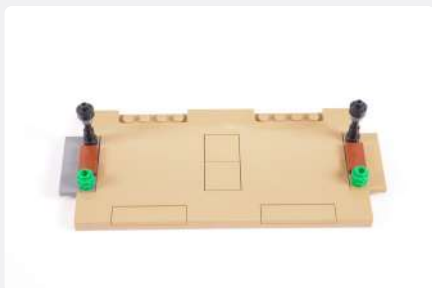
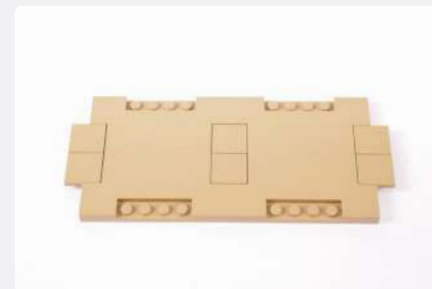
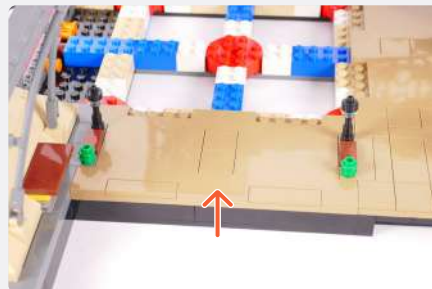
Use the LEGO Brick Separator Tool or similar to pry apart plates.





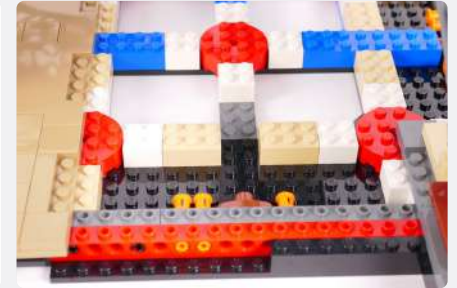
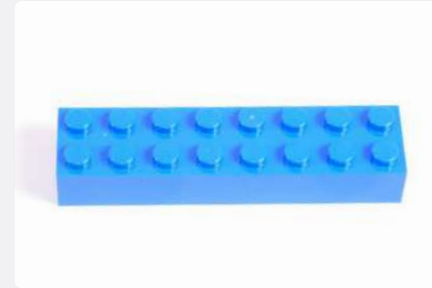
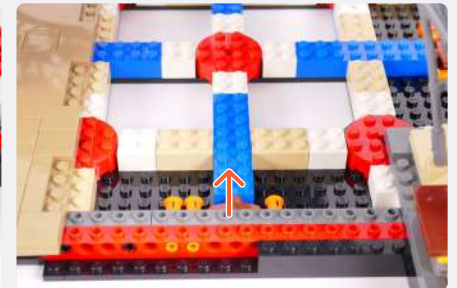
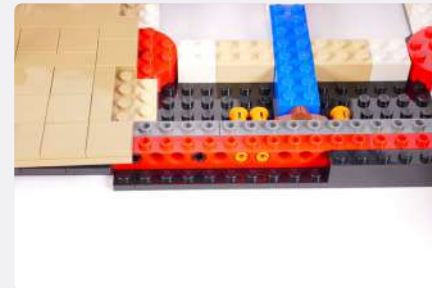
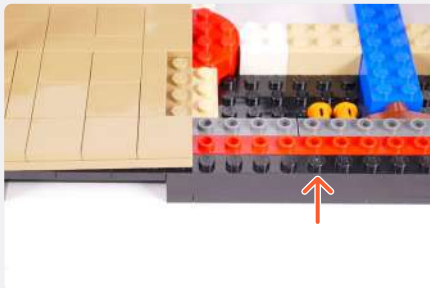
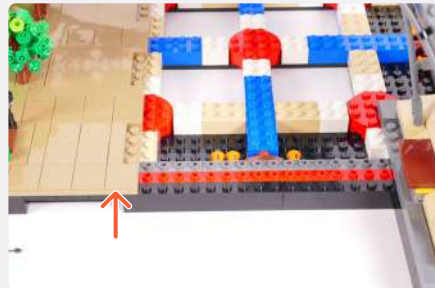


5

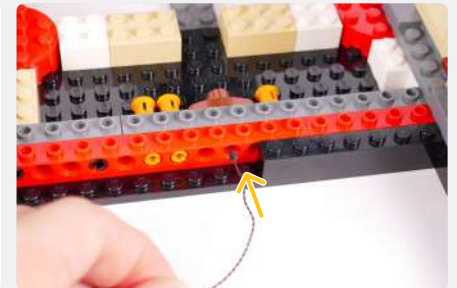




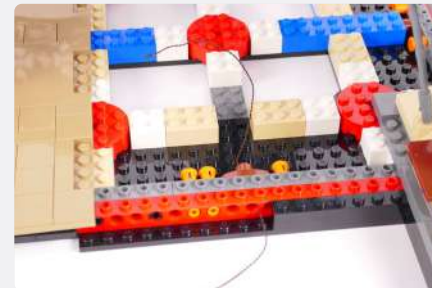
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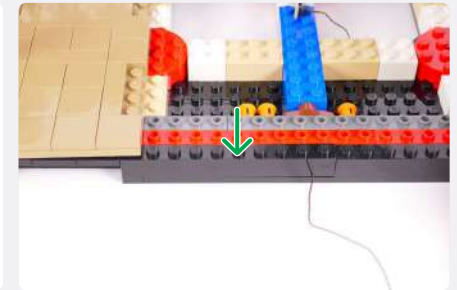
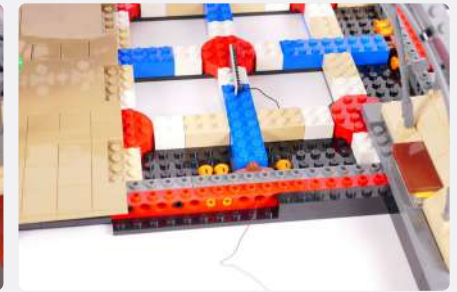
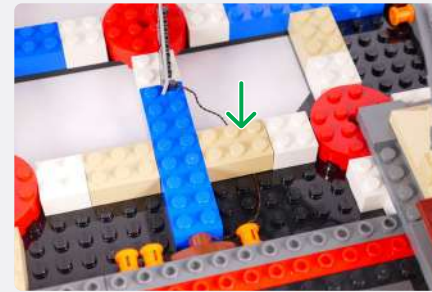
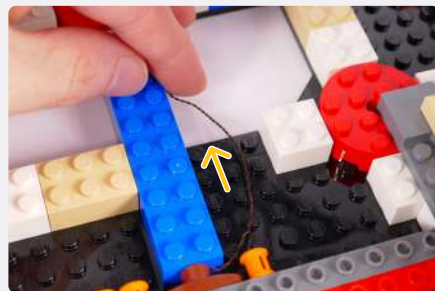
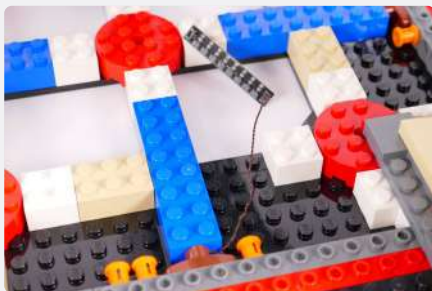
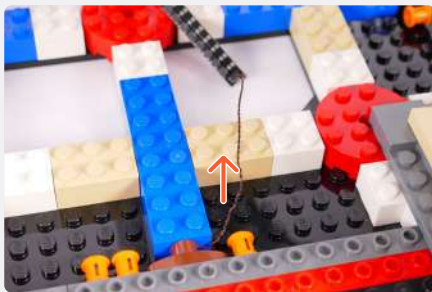
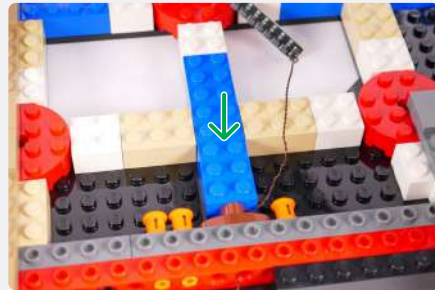
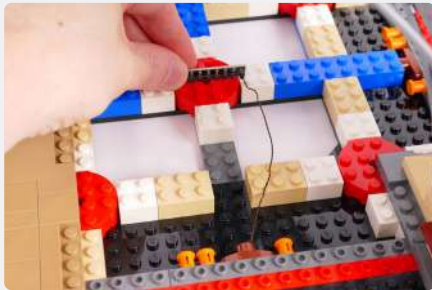
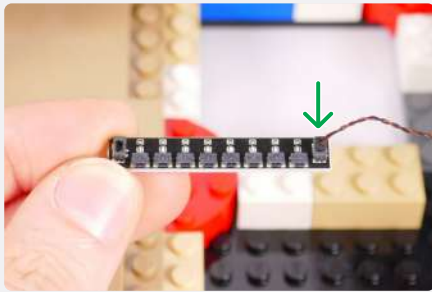
USB Power Cable



8-Port Micro Expansion Board

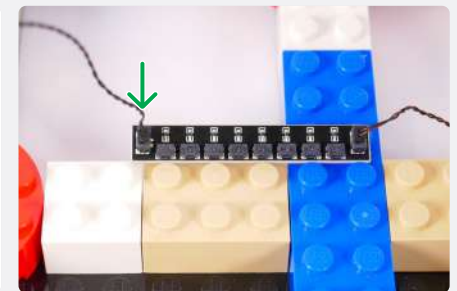


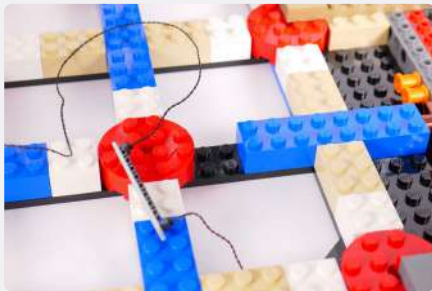
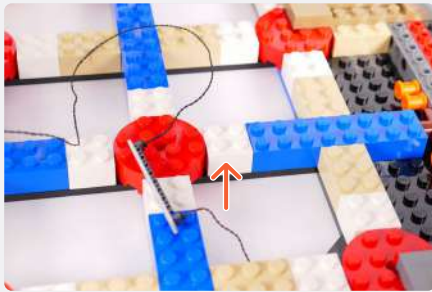
**7**




**8**

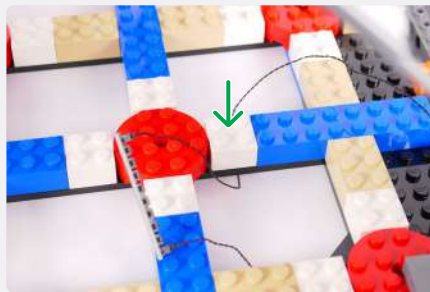
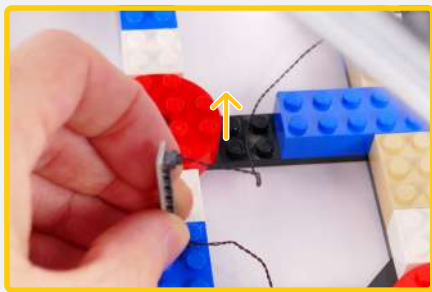
**30cm Connecting Cable**



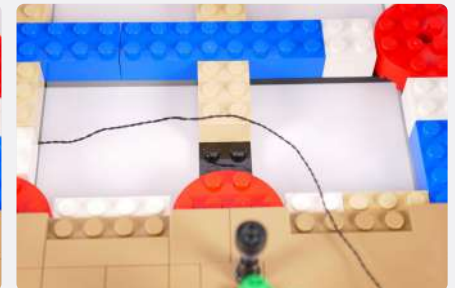
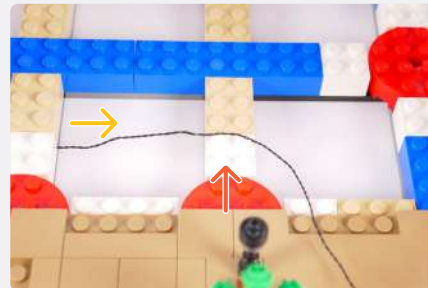
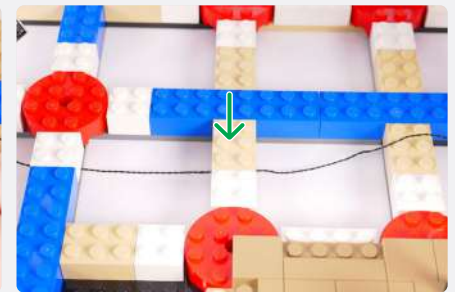
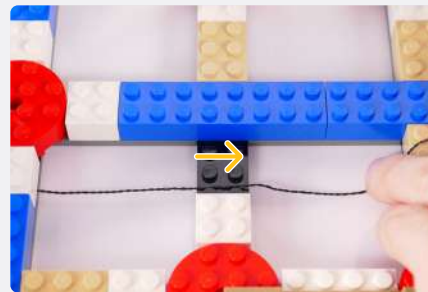
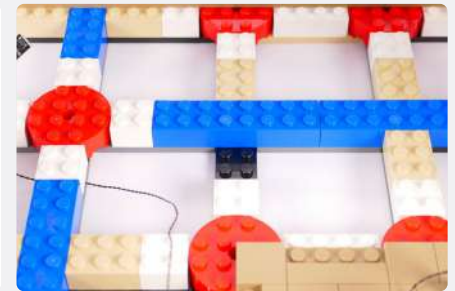
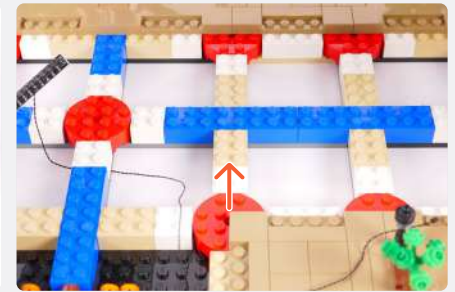


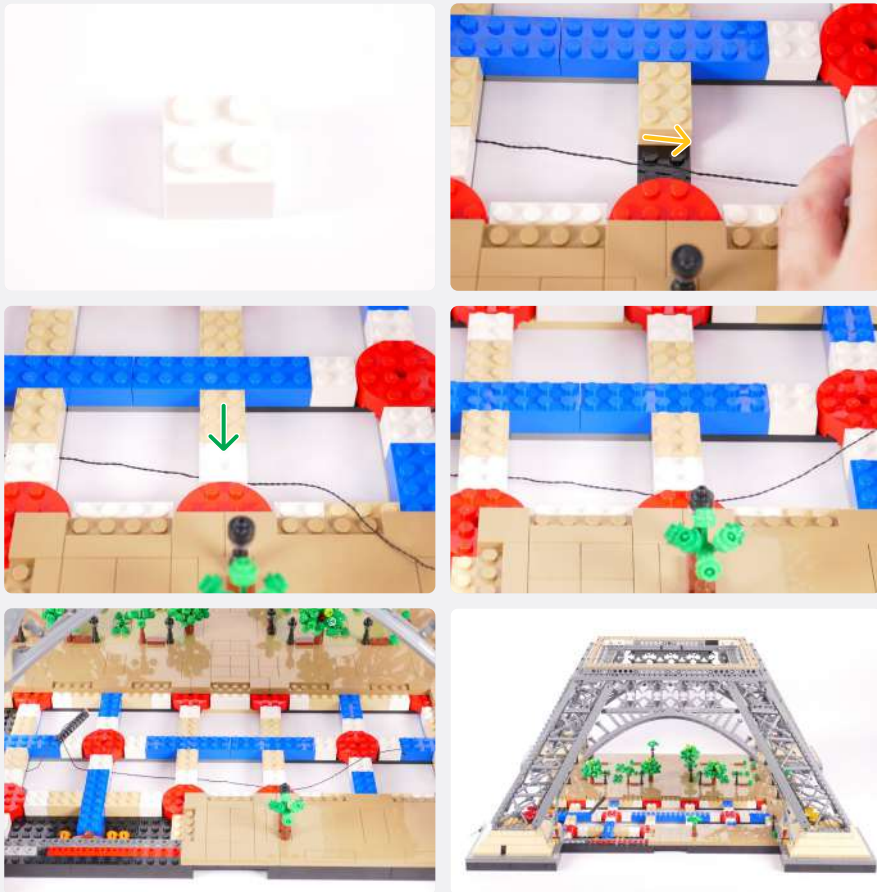
 **NOTE**

Position the Expansion Board as shown and route the cable. This will allow the right amount of cable length.

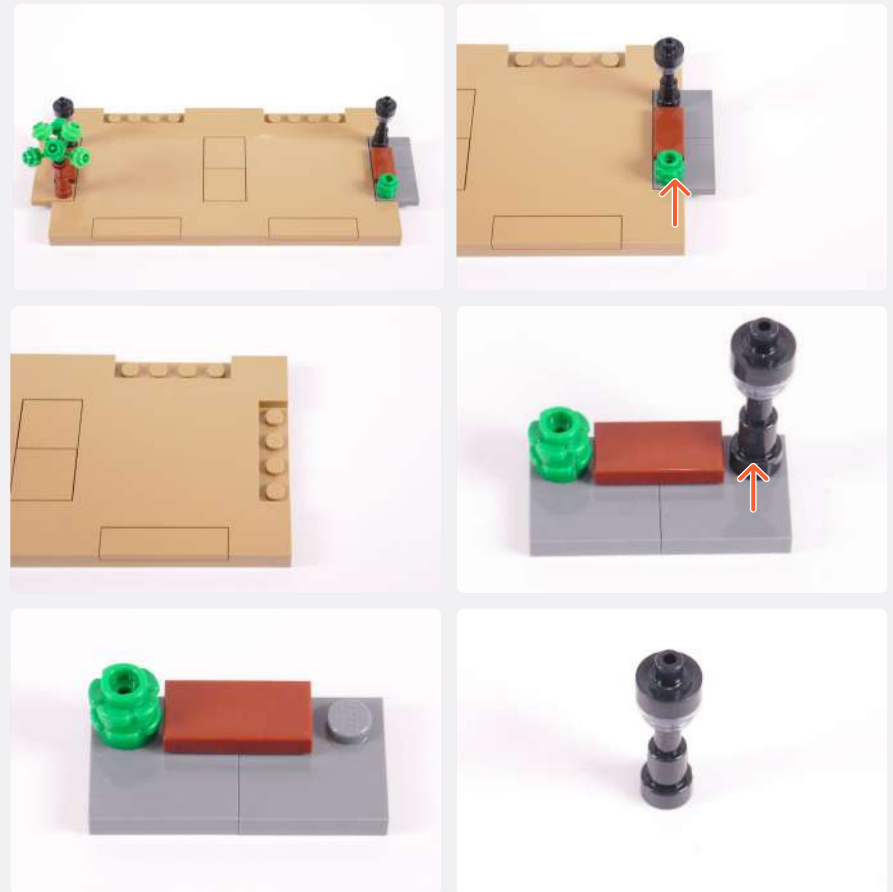


**9**





**10**



White 15cm Micro Bit Light



**NOTE**

Position the Micro Bit Light LED sideways as shown; this will allow it to fit inside of the lamp posts.

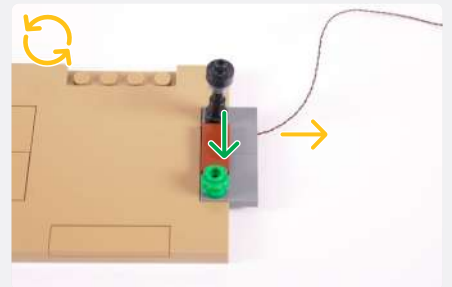
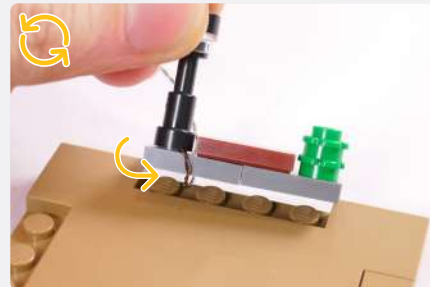
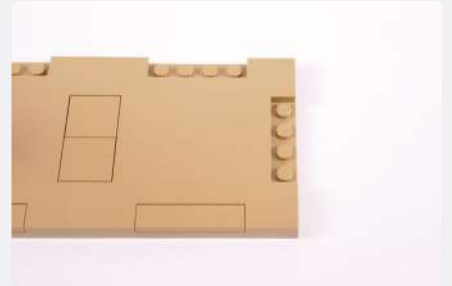
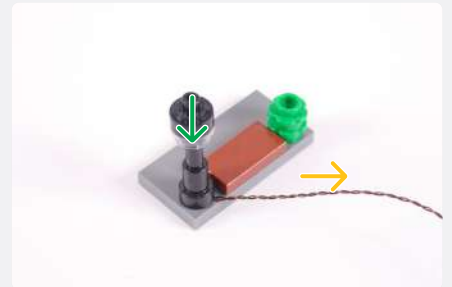
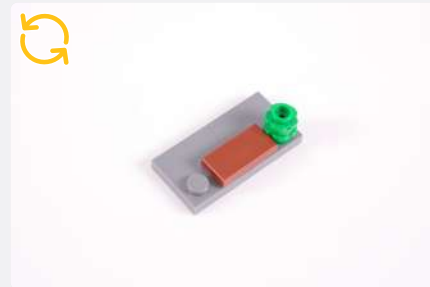


**NOTE**

To check if the light is positioned correctly, remove the black cap and look for the Micro Bit Light LED.

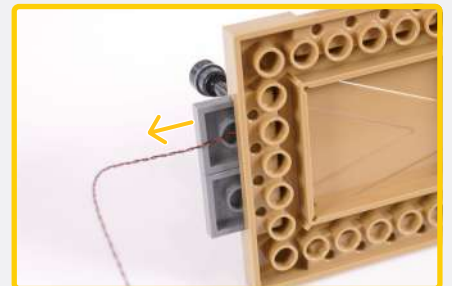


**11**

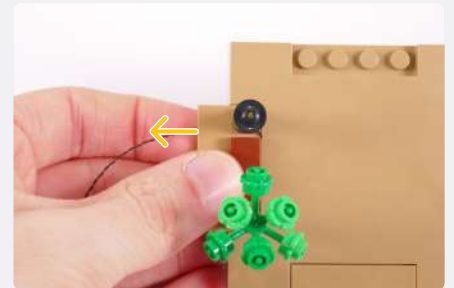
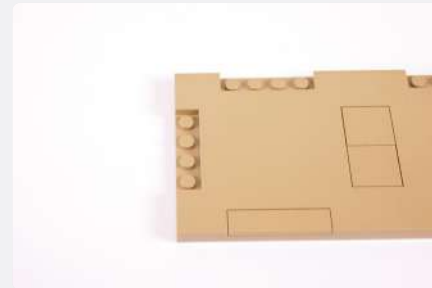
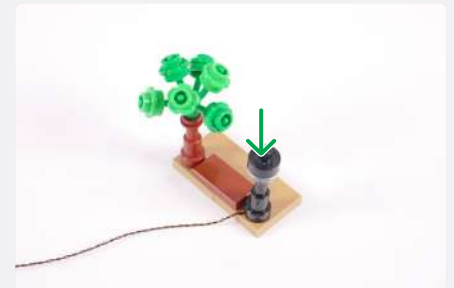
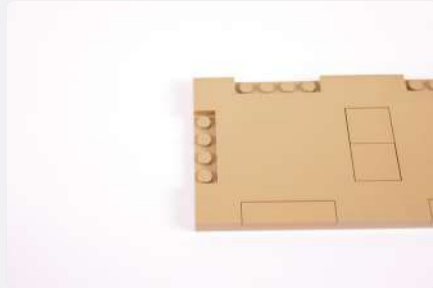
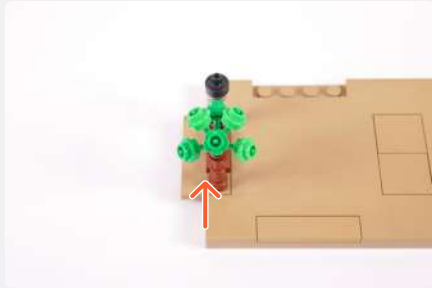


**NOTE**

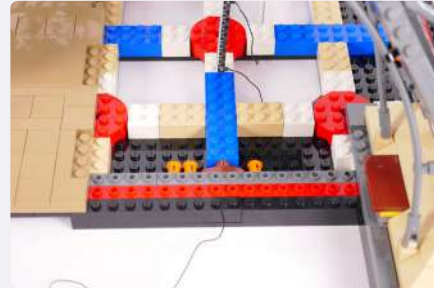
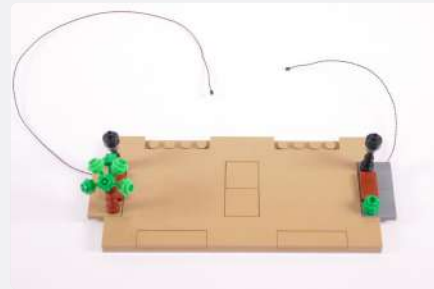
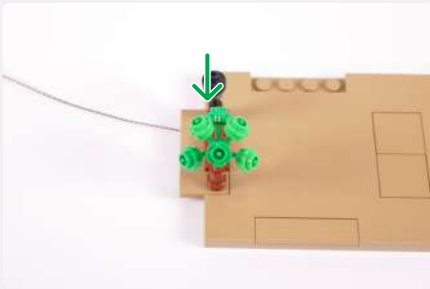
Ensure the cable is placed in between the studs and coming out from the indicated location.



**12**

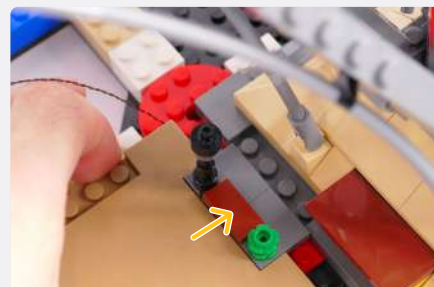
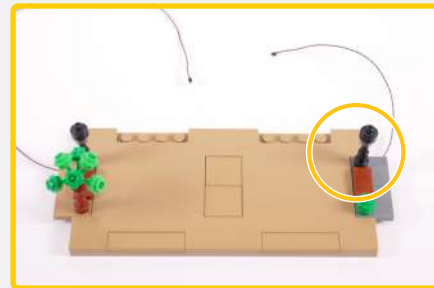


**13**

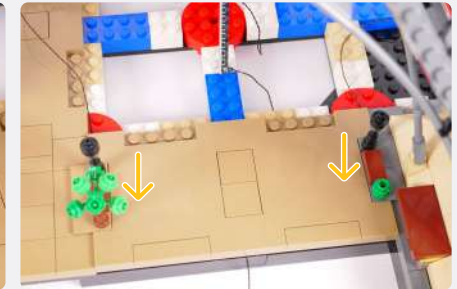


**NOTE**

Run the cables to the side of the brown piece, ensure it is under the piece when placed down.

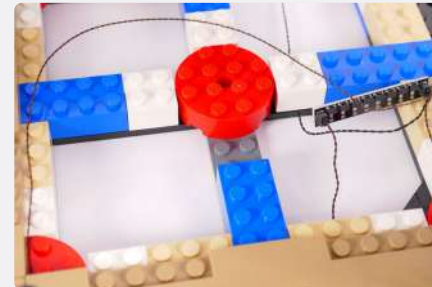
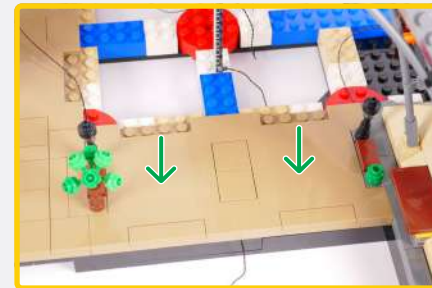
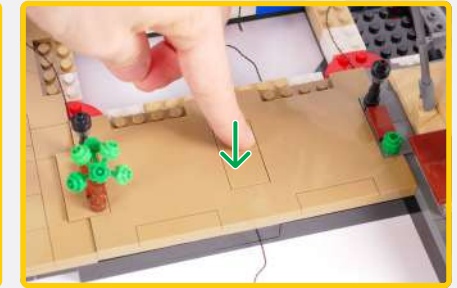


**14**

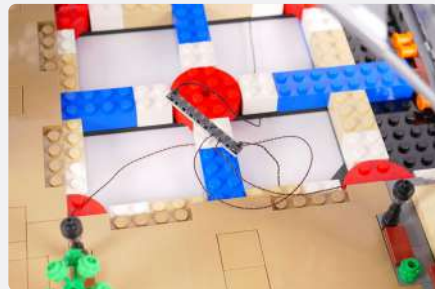
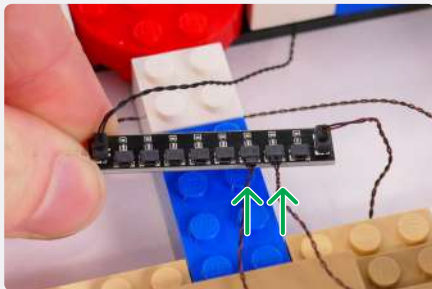
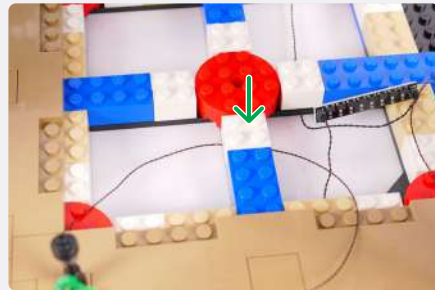
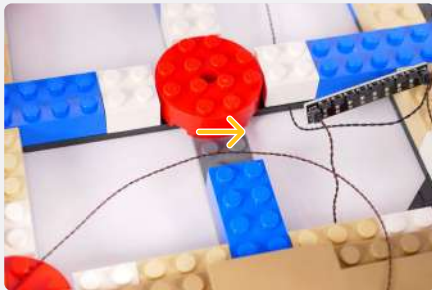


**NOTE**

Press down on the middle of the brown piece first, then press down where indicated.







**NOTE**

Connect to a 5V USB Wall Adaptor (sold separately). A power bank or battery pack is not recommended to power this set.



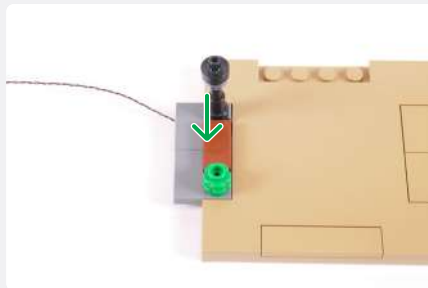
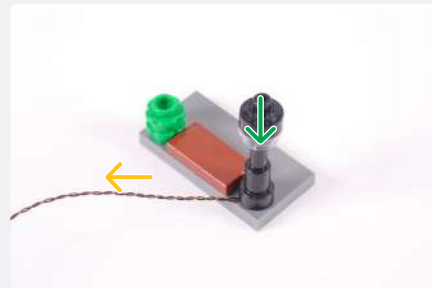
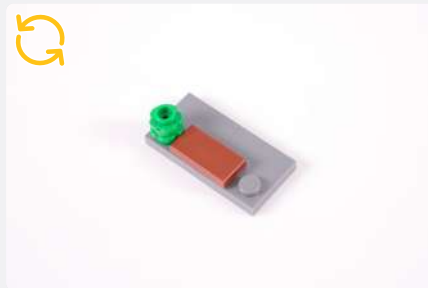
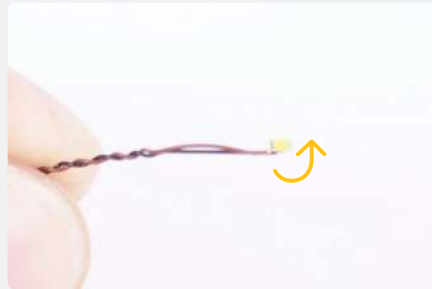
**NOTE**

Testing the set regularly is encouraged to ensure all of the lights are working when completing each step.

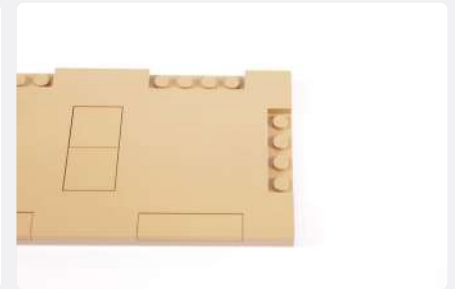
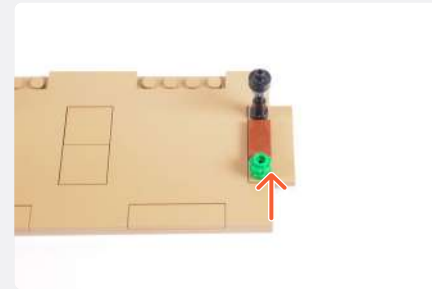
**15**



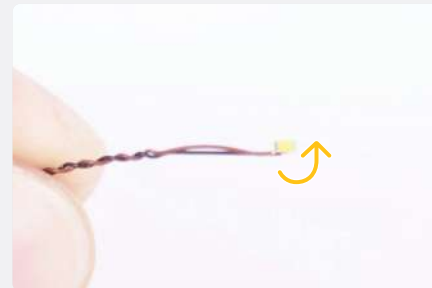
**White 15cm Micro Bit Light**



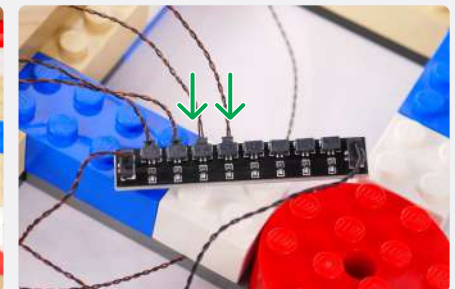
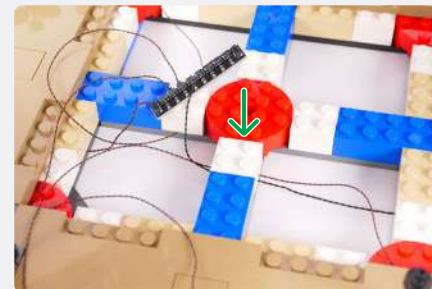
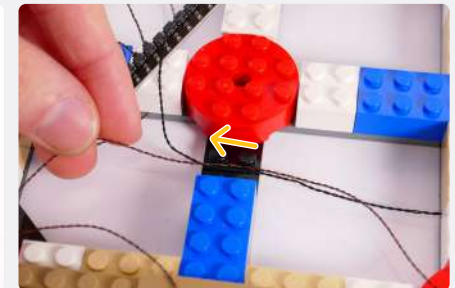
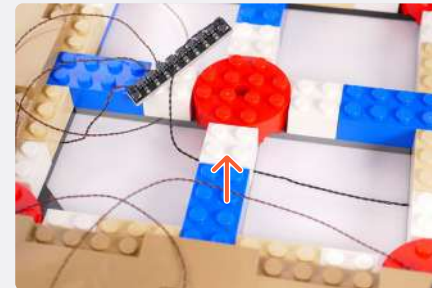
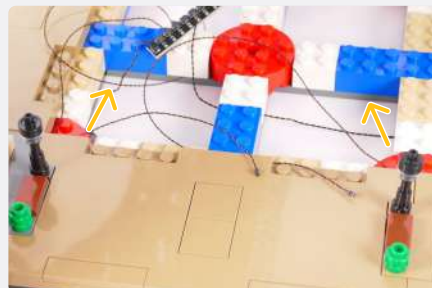
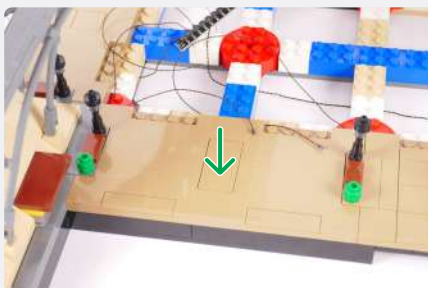
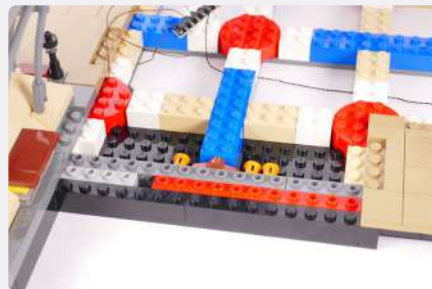
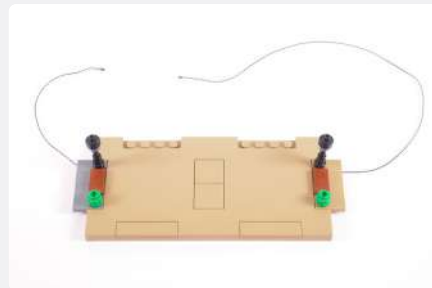
**16**



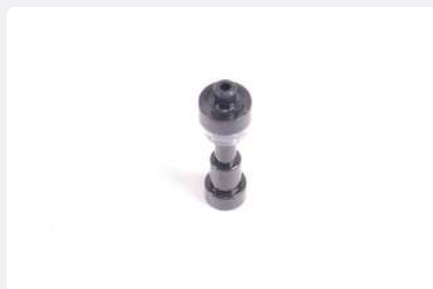
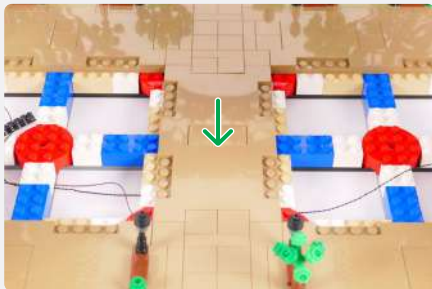
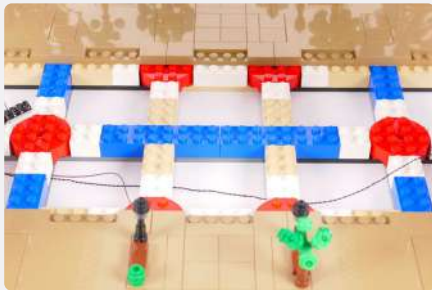
**White 30cm Micro Bit Light**



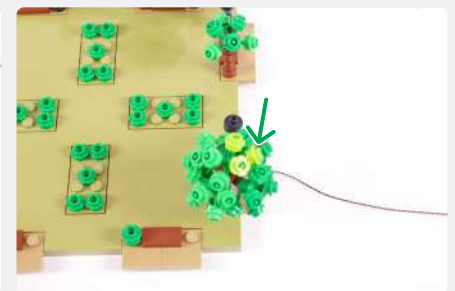
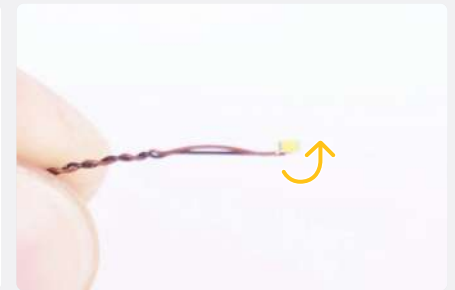
17



18



White 30cm Micro Bit Light

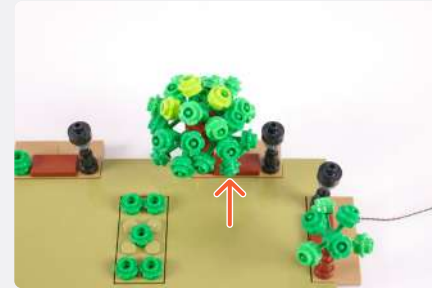


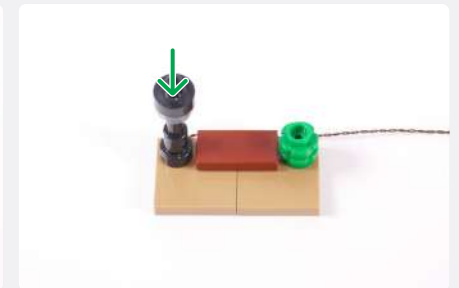
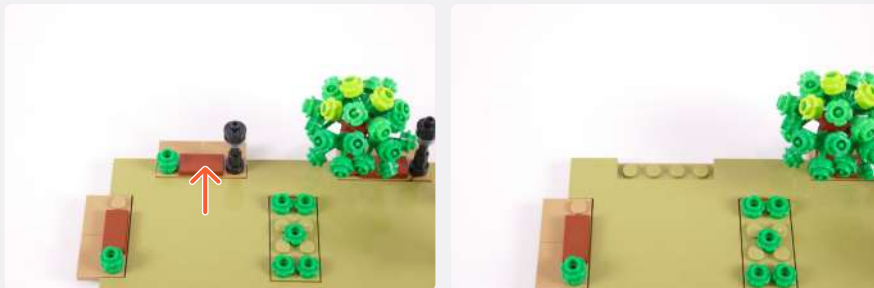
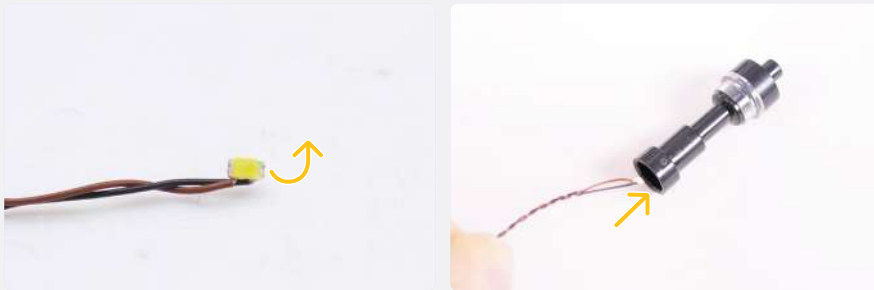
19





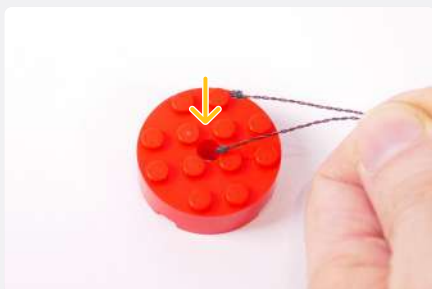
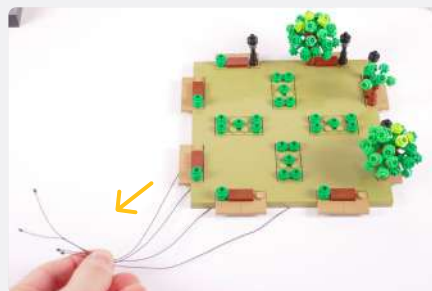
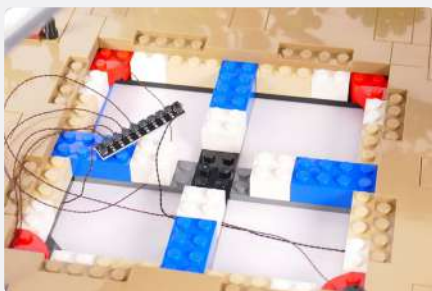
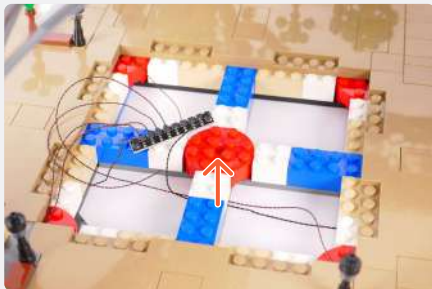
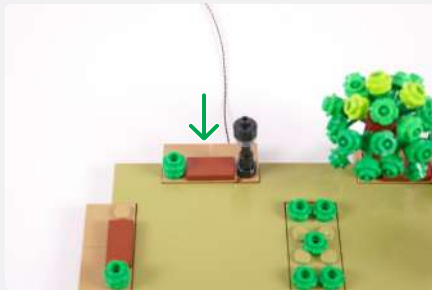
20






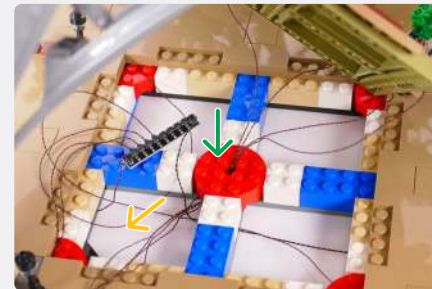
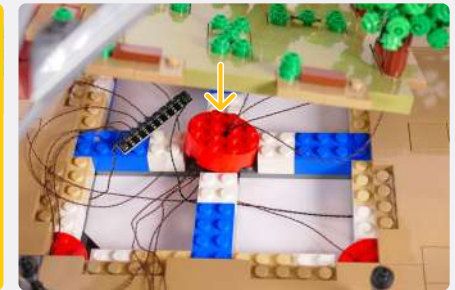
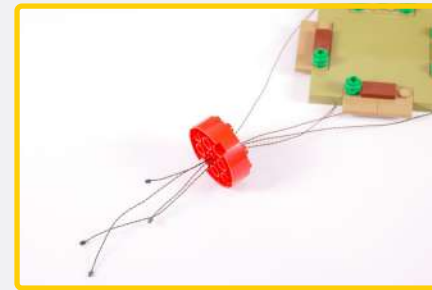
21


22



 **NOTE**

Run all of the Micro Bit Light cables about halfway through the red circle brick.

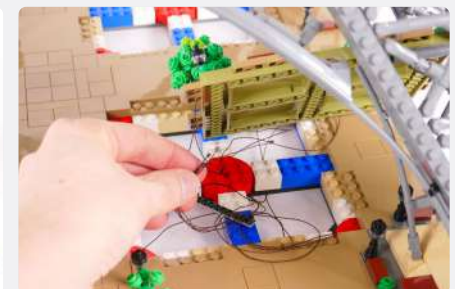


 **NOTE**

Place the green plate in an upright position, this will allow you to connect the cables underneath.

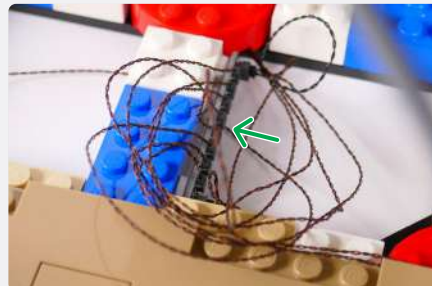
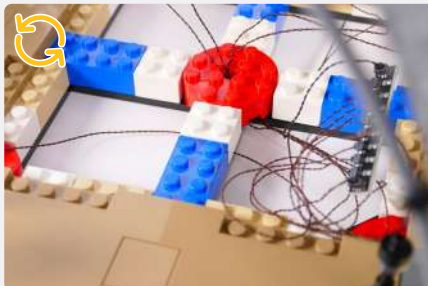
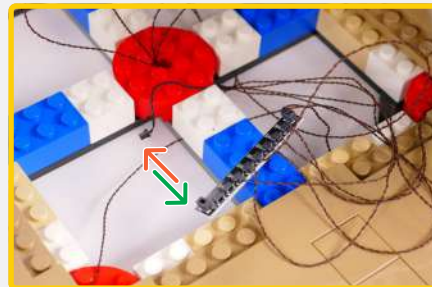


23

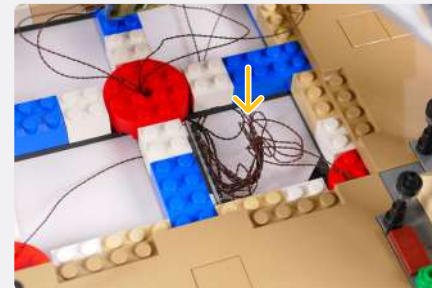
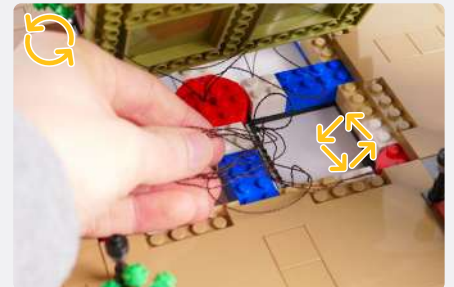


**NOTE**

If you have trouble attaching the Micro Bit Light cables to the Micro Expansion Board, remove the connecting cable, then reattach after.

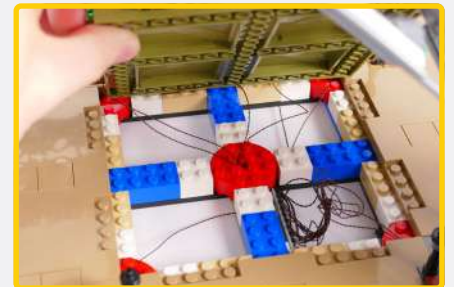


**24**



**NOTE**

Position the green plate as shown, and ensure all of the cables are clear of the studs and placed in the empty spaces.




**NOTE**

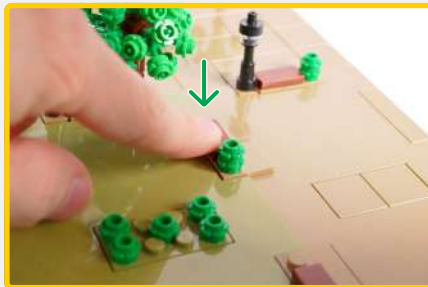
Rest the green plate down in the original position, but do not press down yet.






 **NOTE**


Press down the centre of the green plate first, then press down each of the brown tile sections indicated.



 **NOTE**

Then press down the remaining sections by pressing on the edge of the brown plate of each. Ensure you do not press too hard.

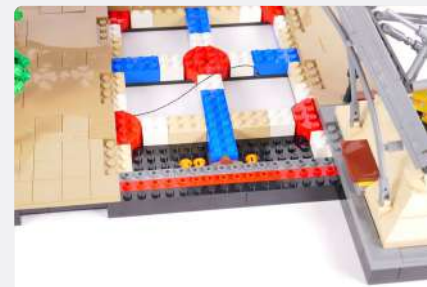
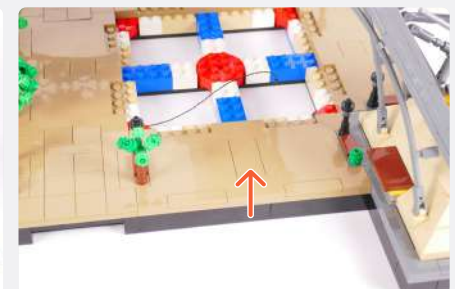


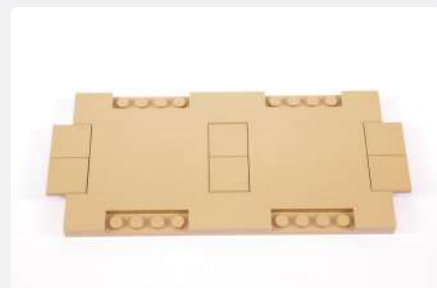
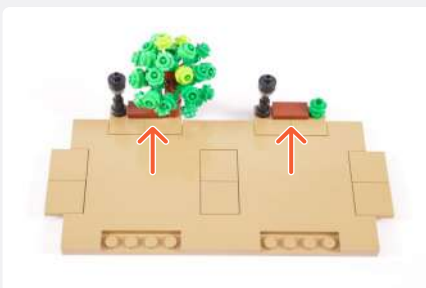
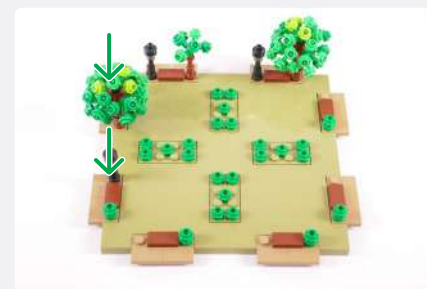
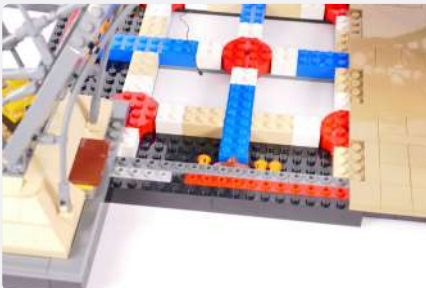
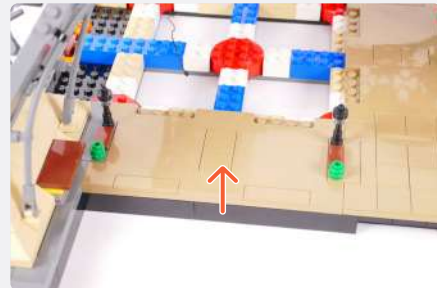
 **NOTE**

The green plate will be slightly raised but this is normal. There are several cables underneath and making it flat will break them.



**25**



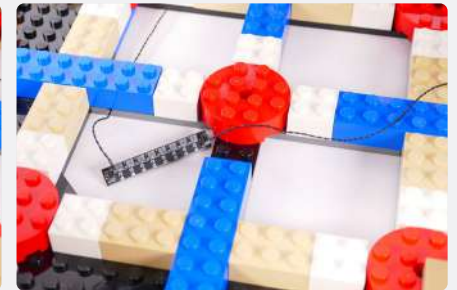
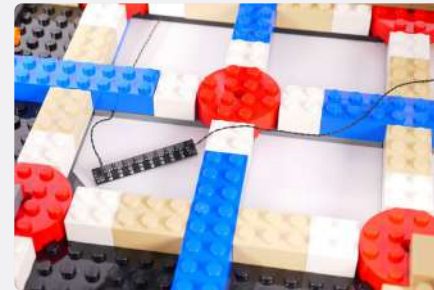
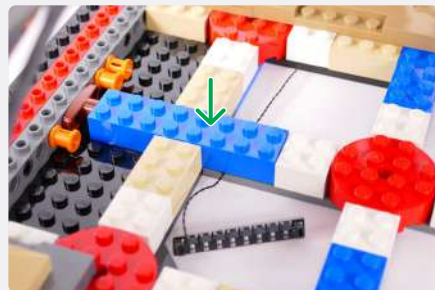
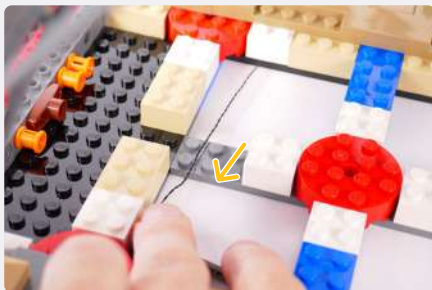
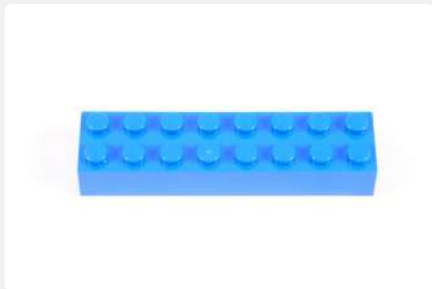
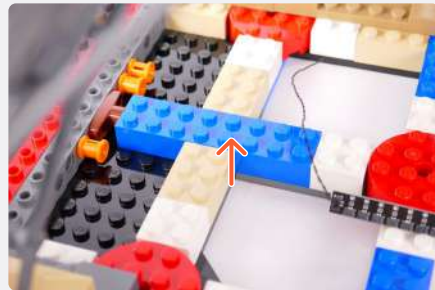
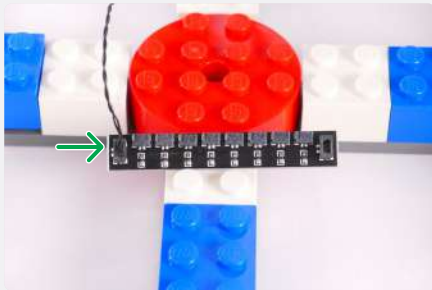


**26**



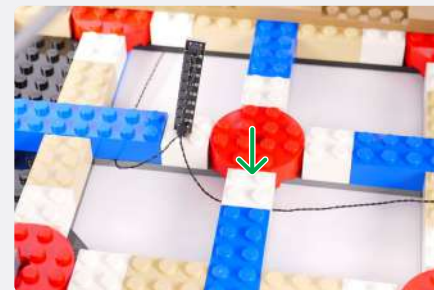
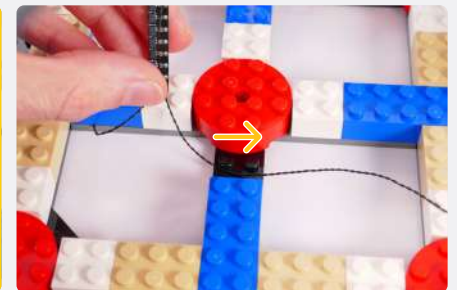
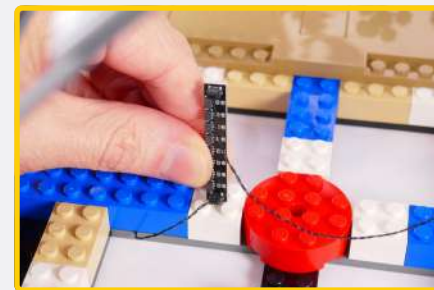
**8-Port Micro Expansion Board**

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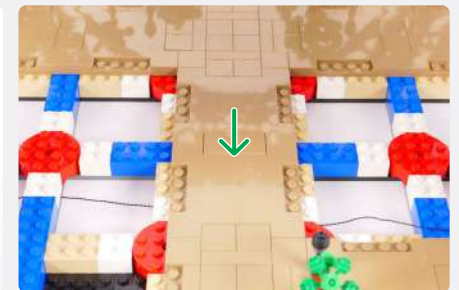
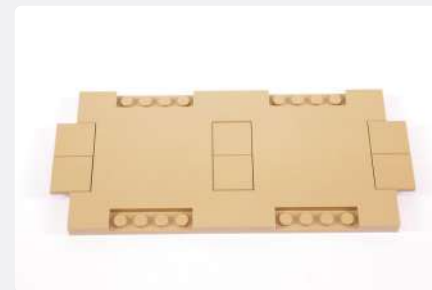
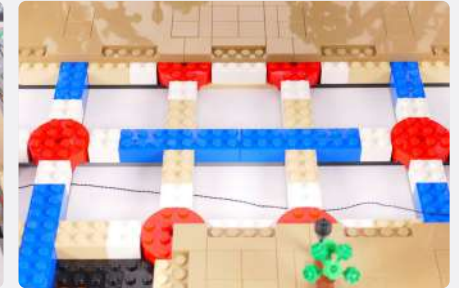
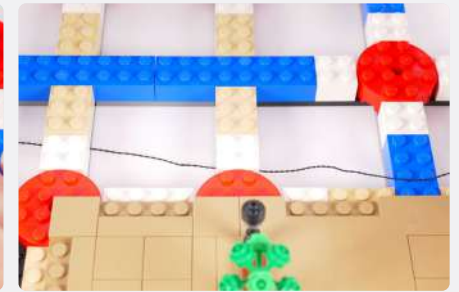
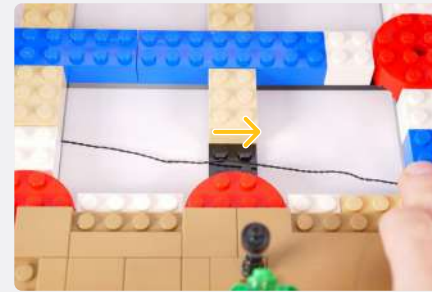
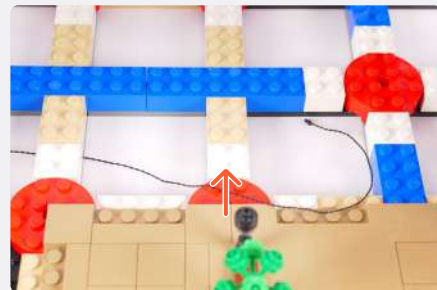
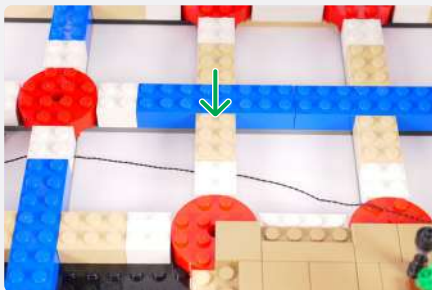
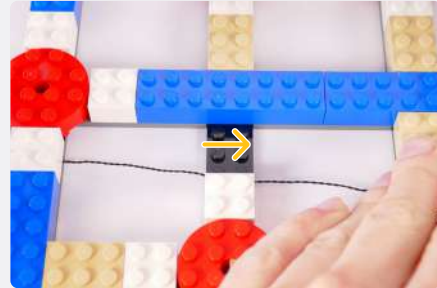
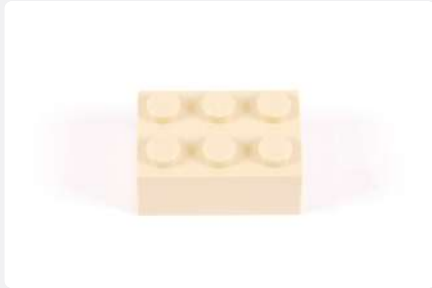
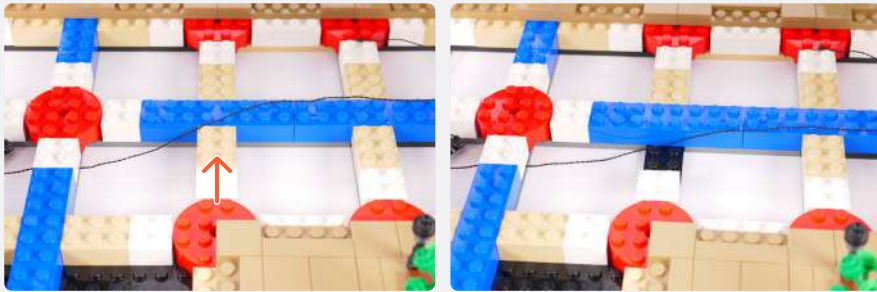


**NOTE**

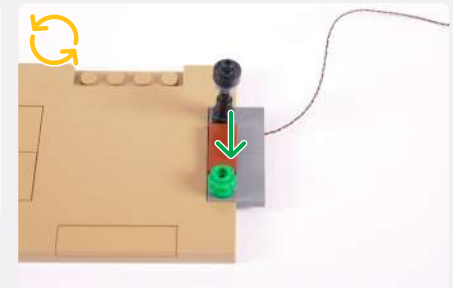
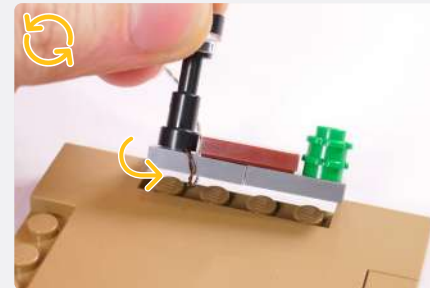
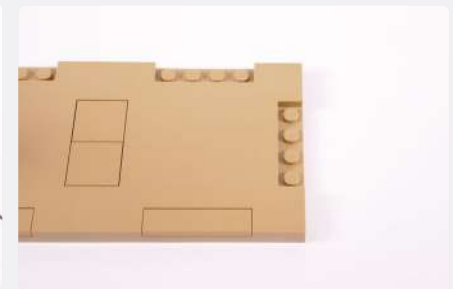
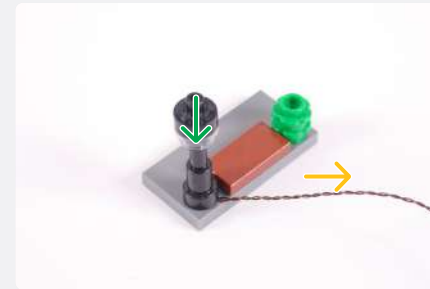
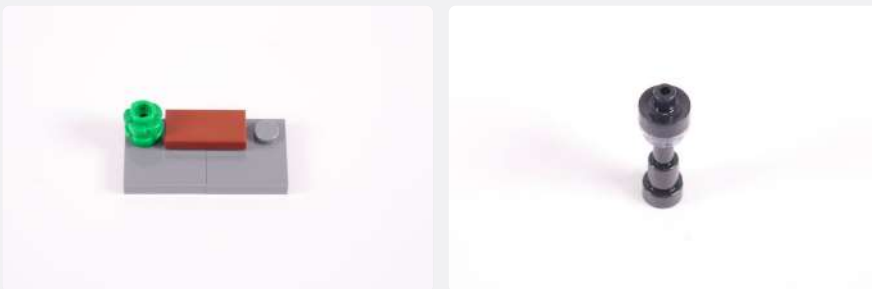
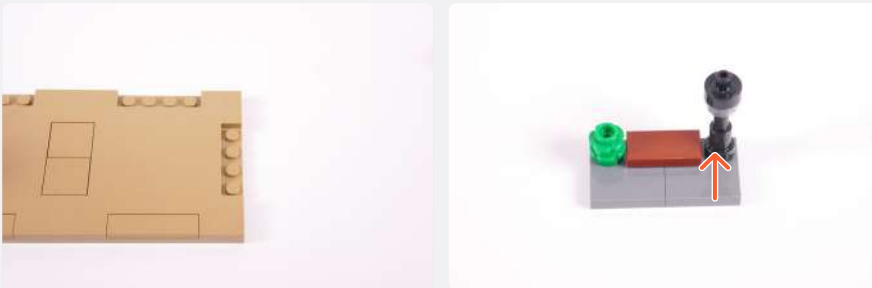
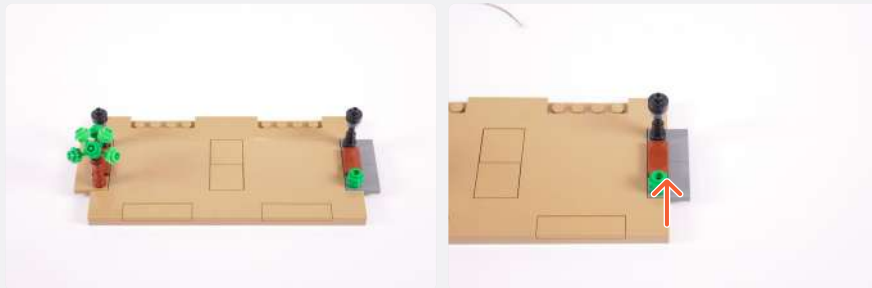
Hold the Micro Expansion Board in the following position, before securing the Connecting Cable in place



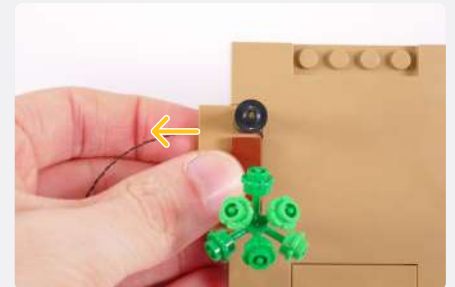
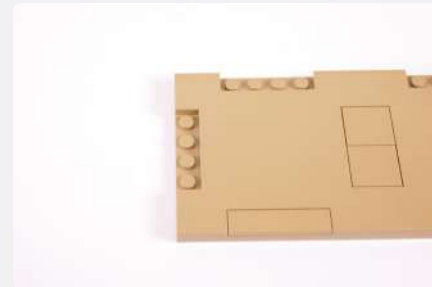
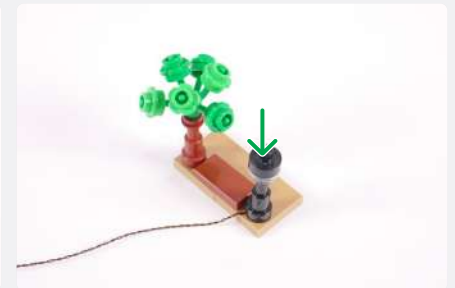
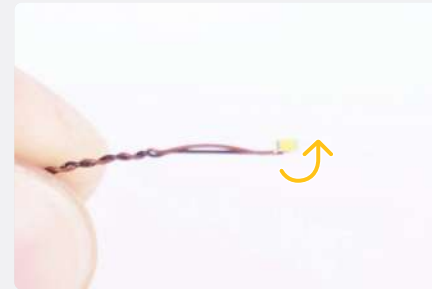
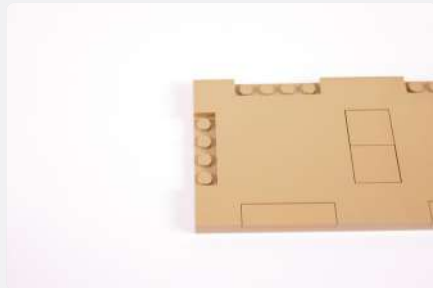
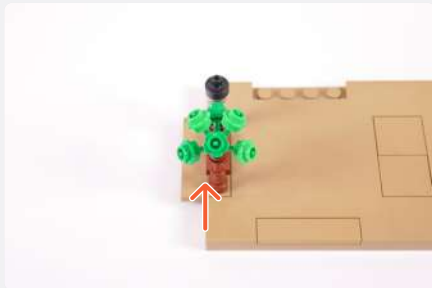
28



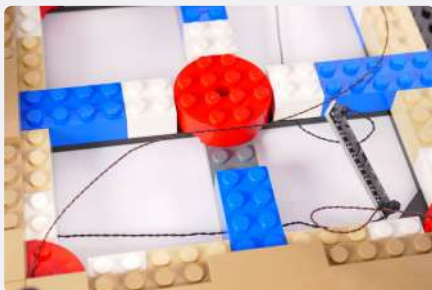
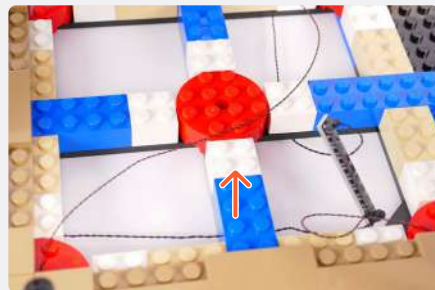
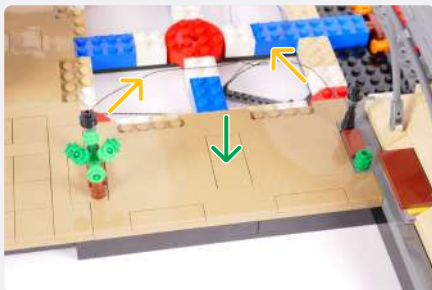
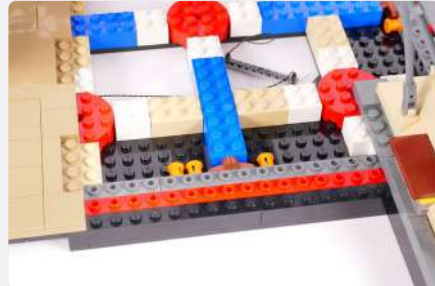
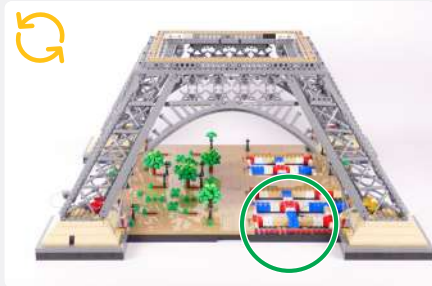
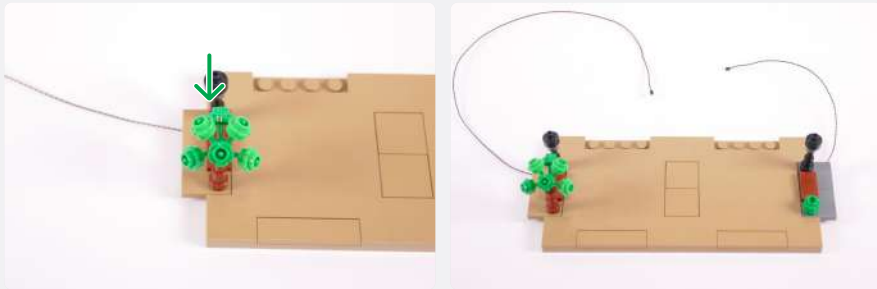
29



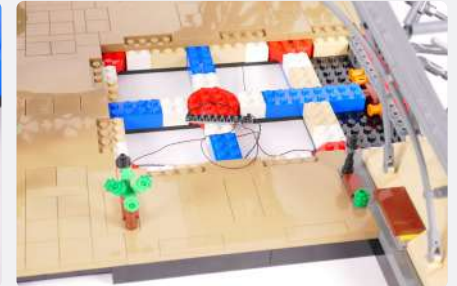
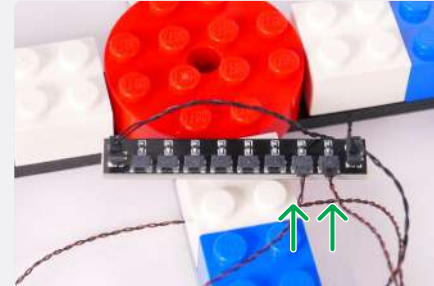
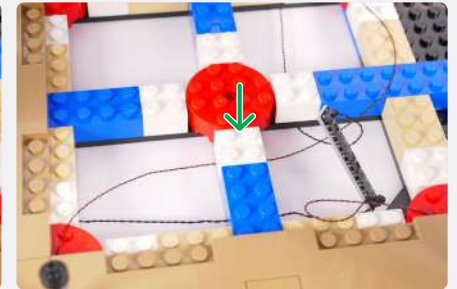
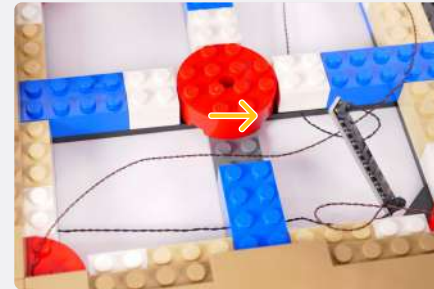
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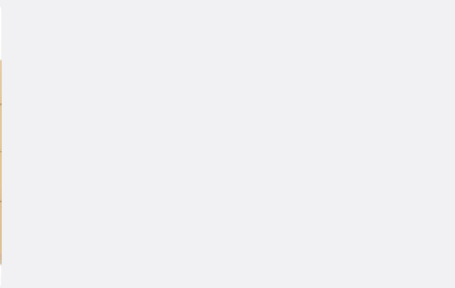
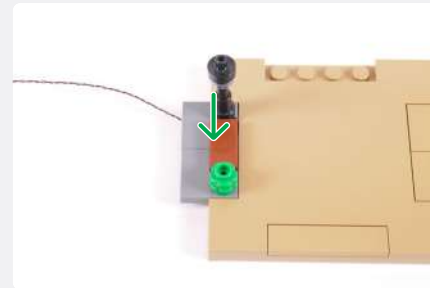
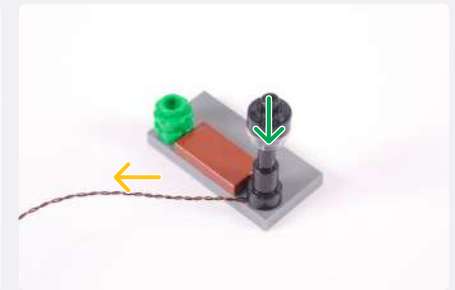
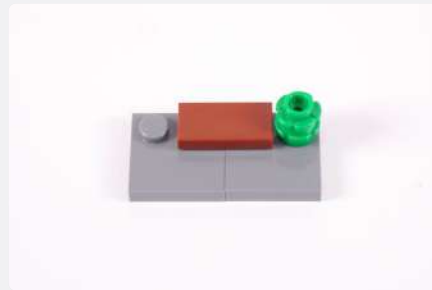


**31**

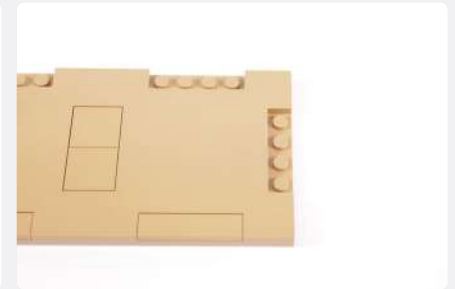


**32**





**33**



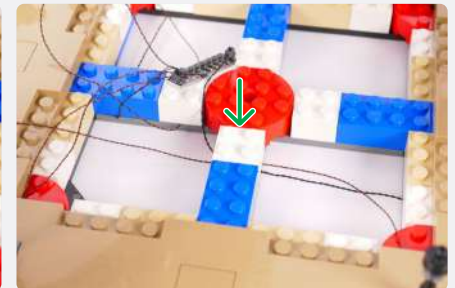
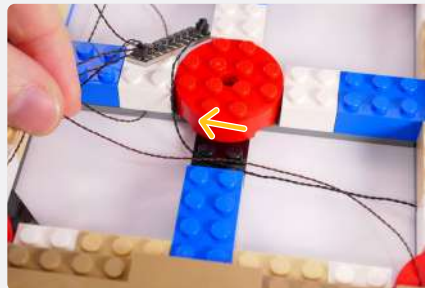
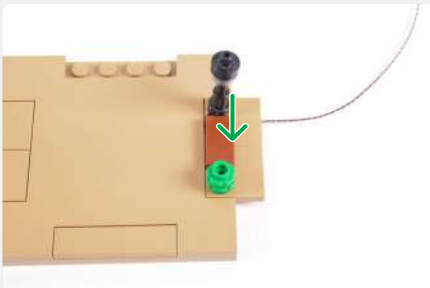
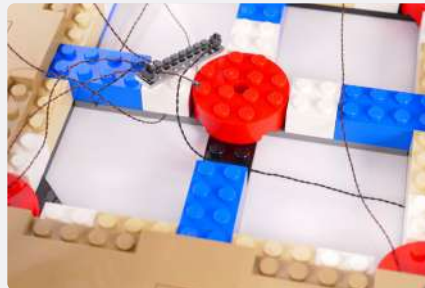
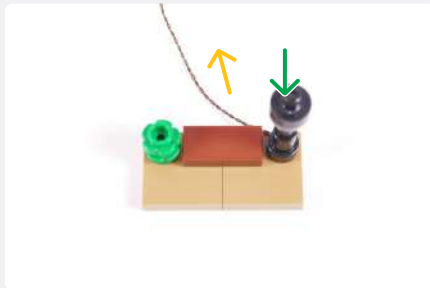
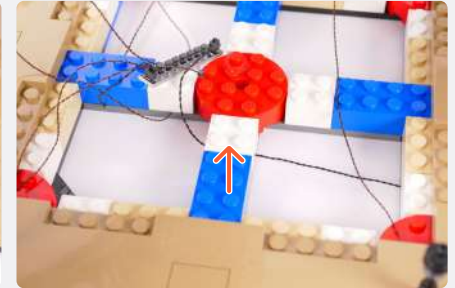
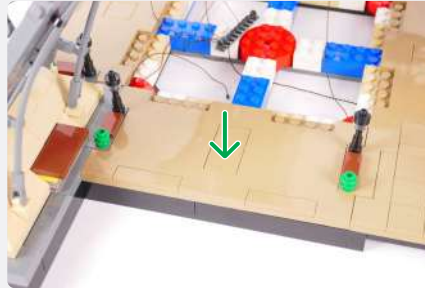
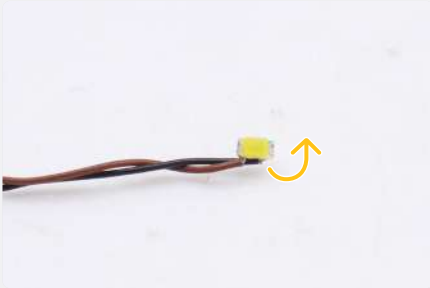
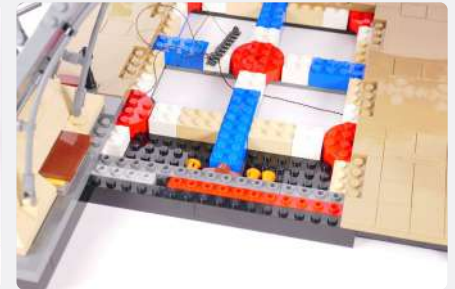




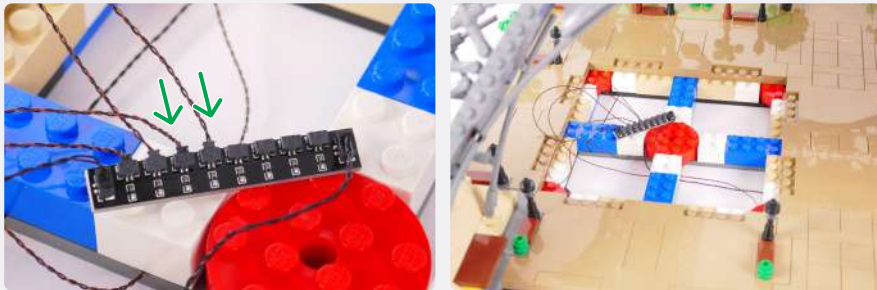
White 30cm Micro Bit Light



**34**



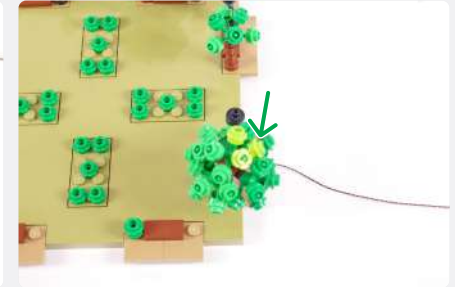
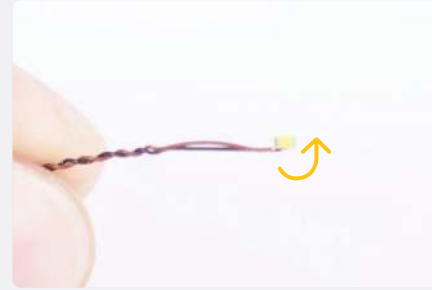
**35**



White 30cm Micro Bit Light

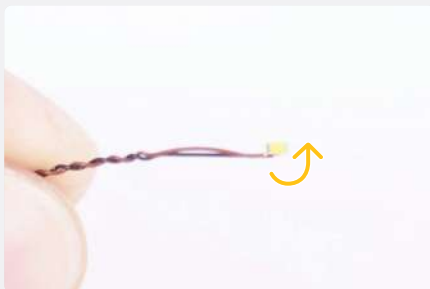


**36**

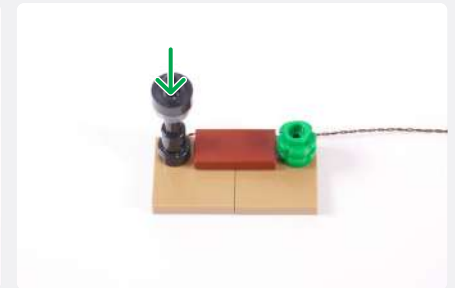
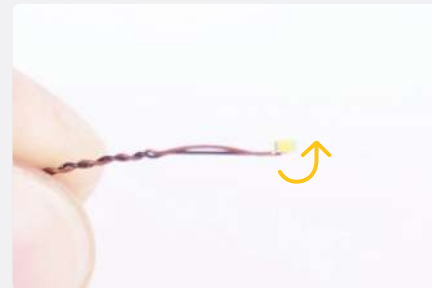
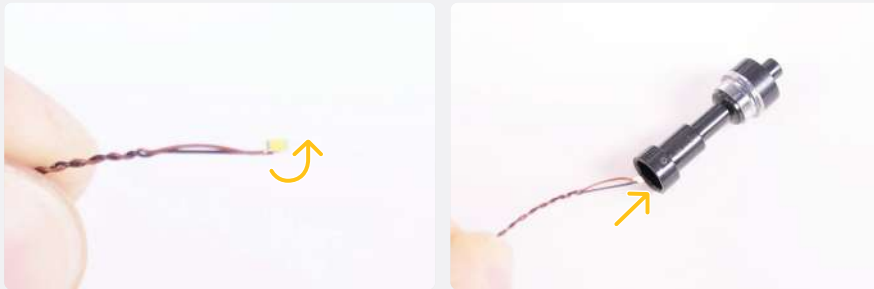




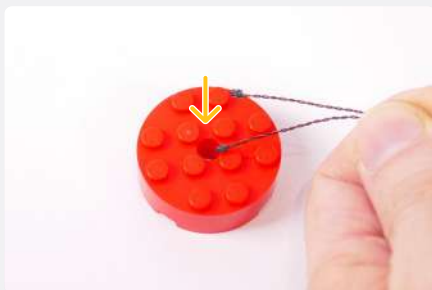
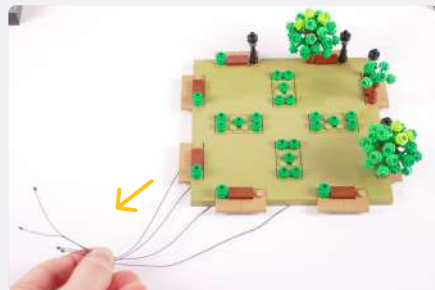
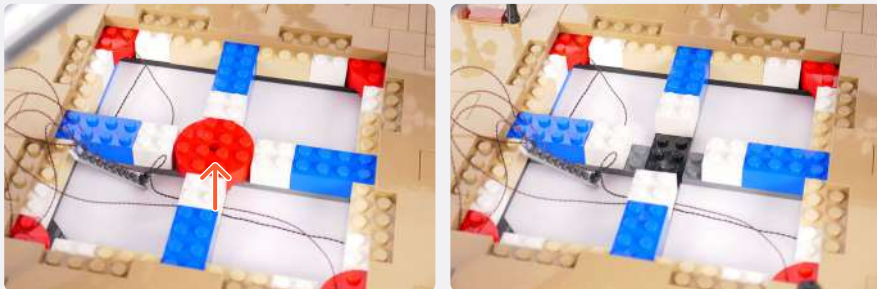
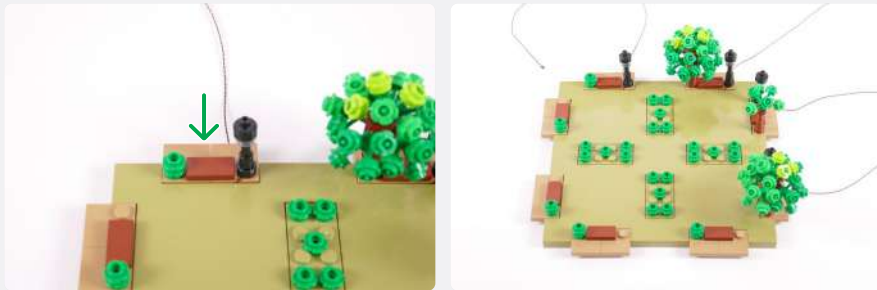
**37**



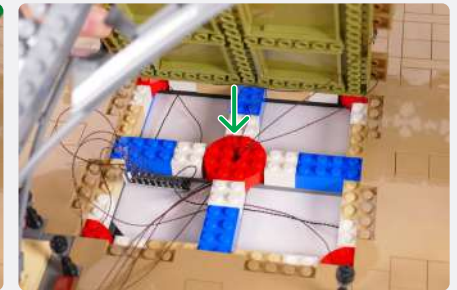
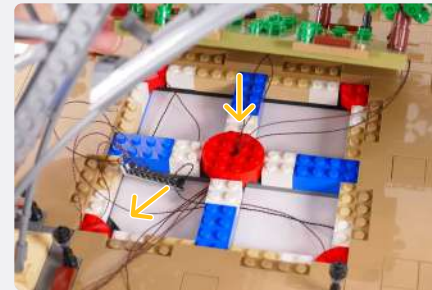
White 30cm Micro Bit Light

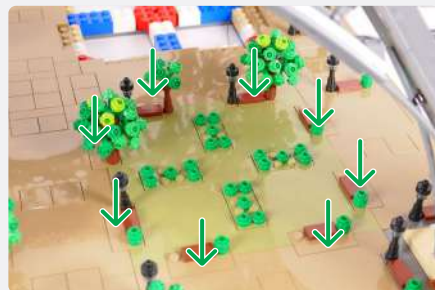
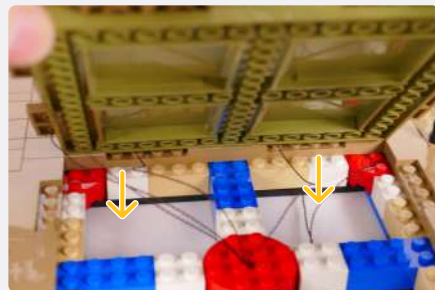
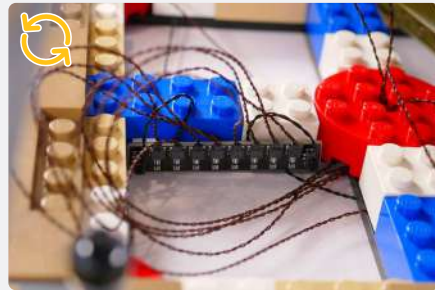
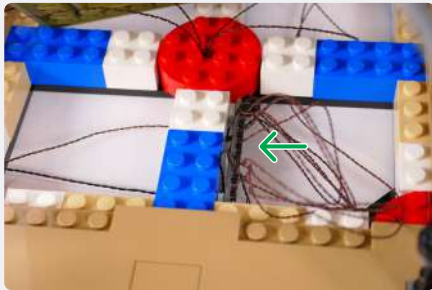
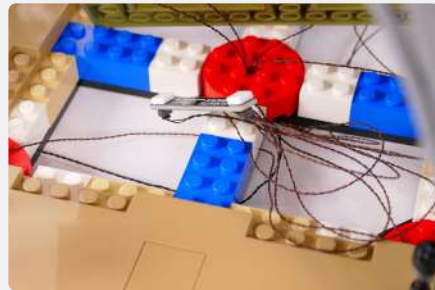
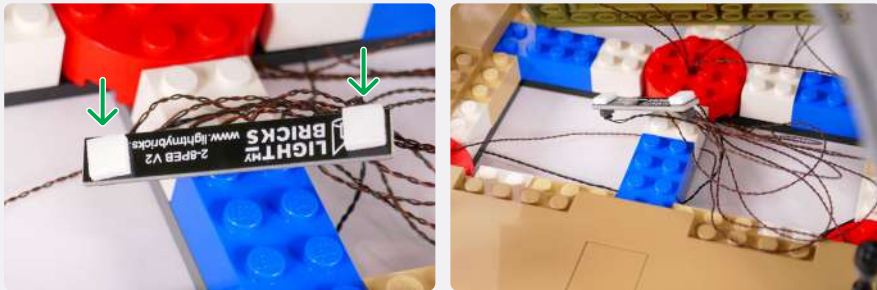


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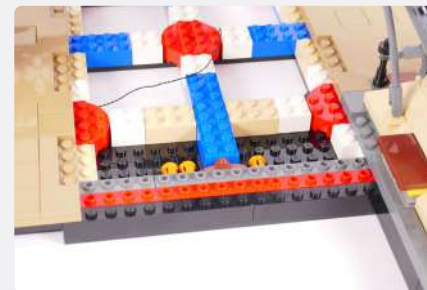
**NOTE**

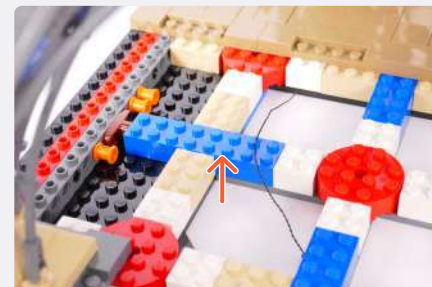
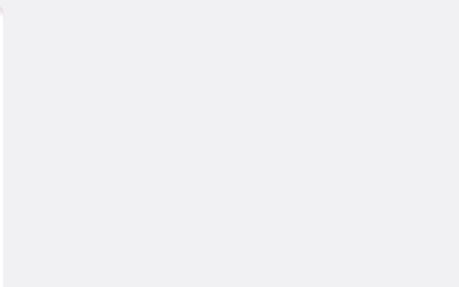
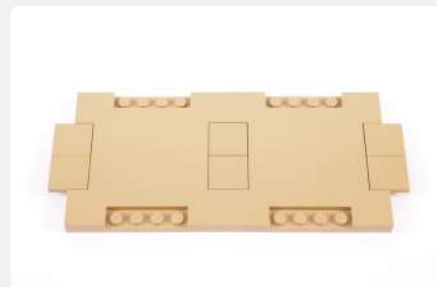
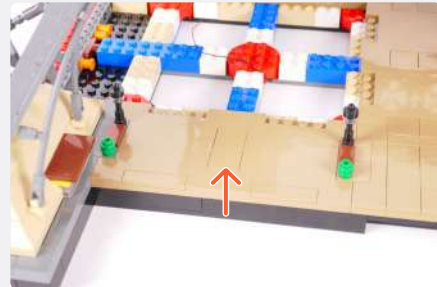
Connect to a 5V USB Wall Adaptor (sold separately). A power bank or battery pack is not recommended to power this set.



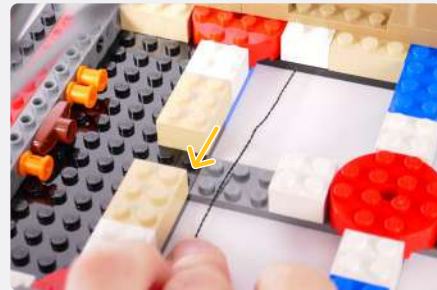
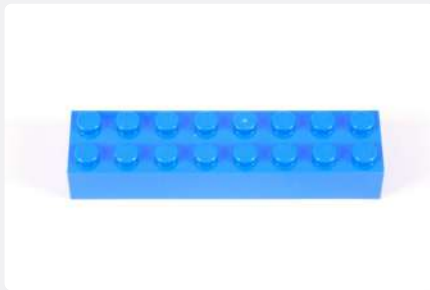
**!** If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing expansion board issues in our troubleshooting section. **i**

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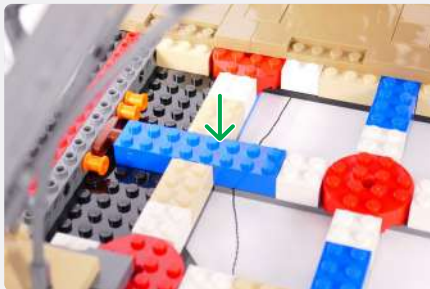
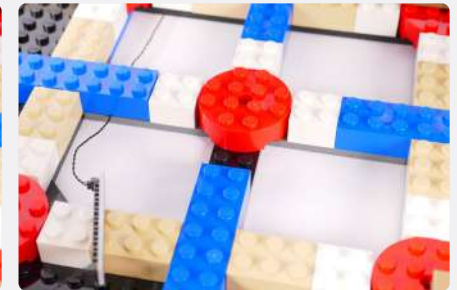
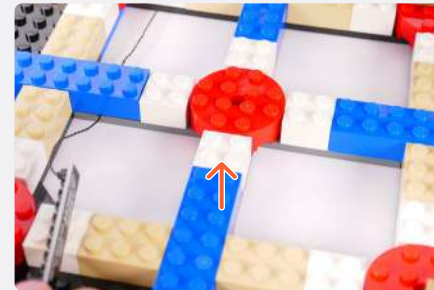




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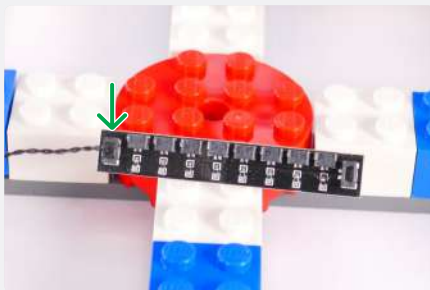


8-Port Micro Expansion Board

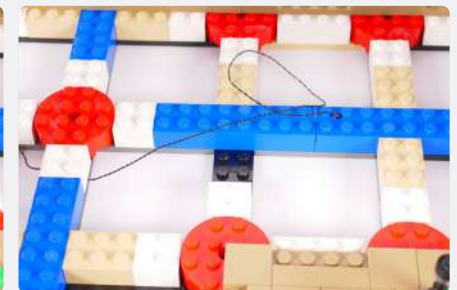
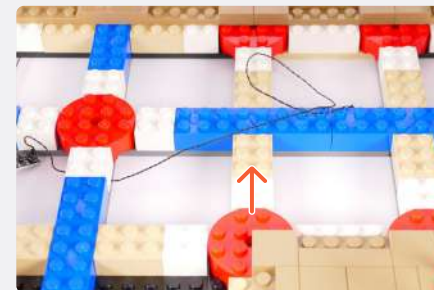
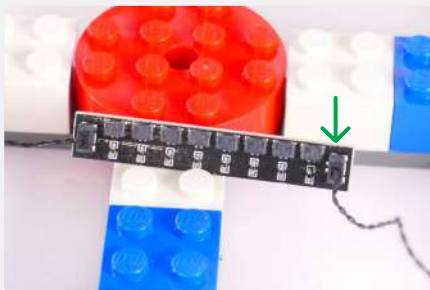
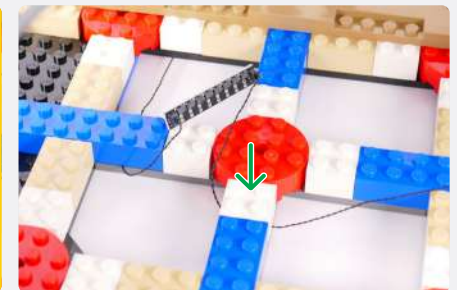
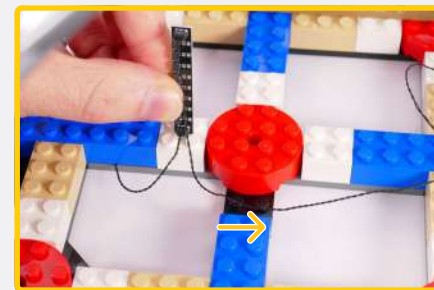


**NOTE**

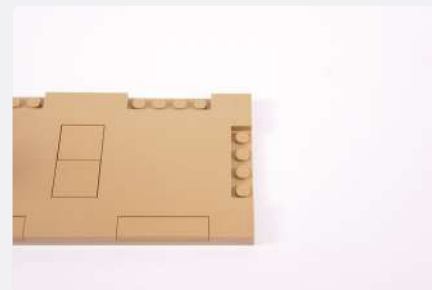
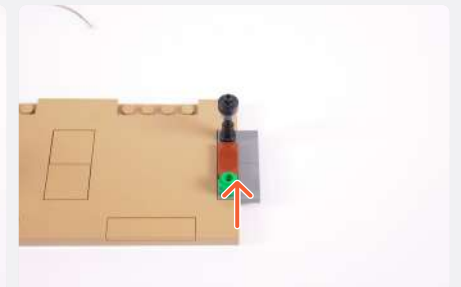
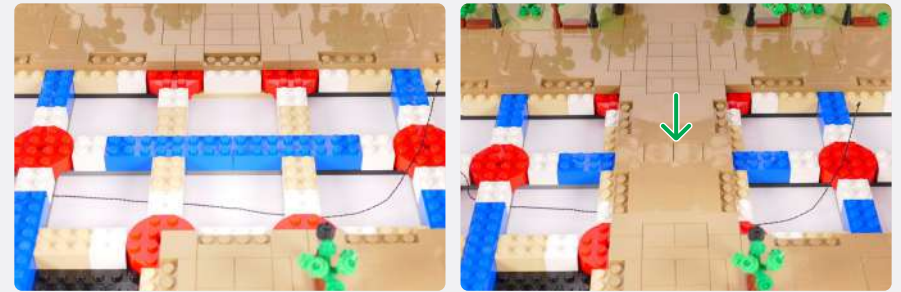
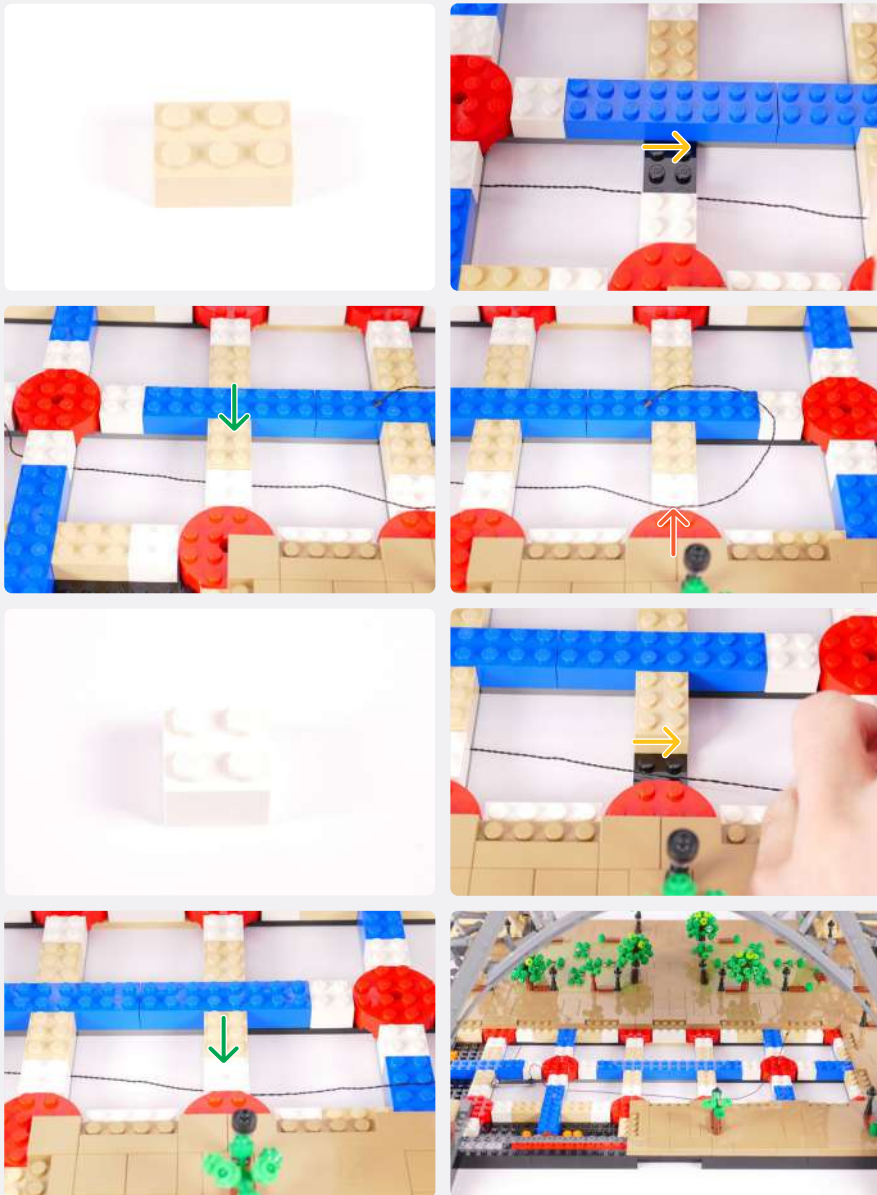
Hold the Micro Expansion Board in this position, then fix the cable down and let go.



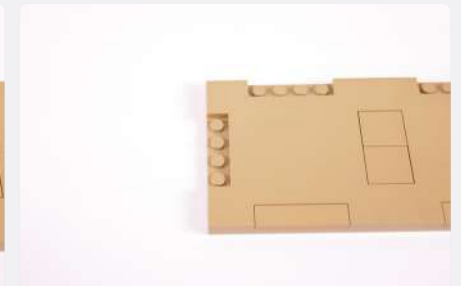
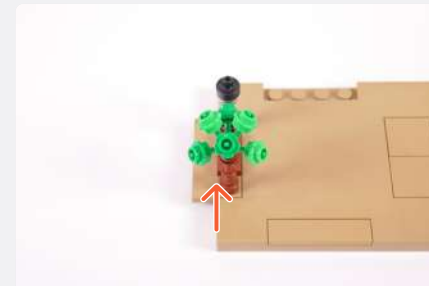
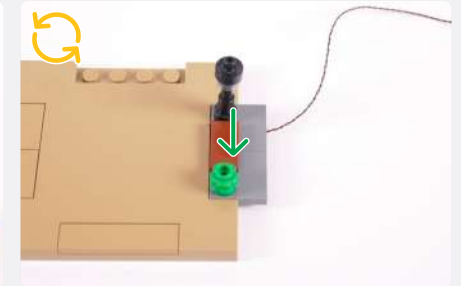
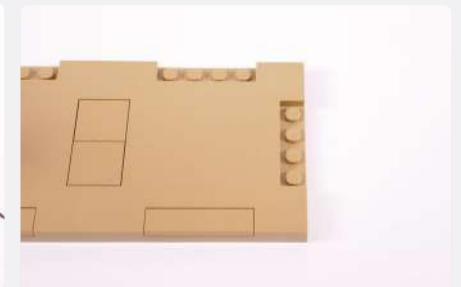
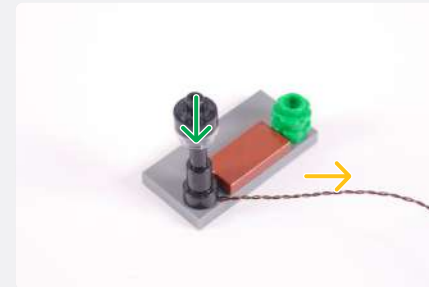
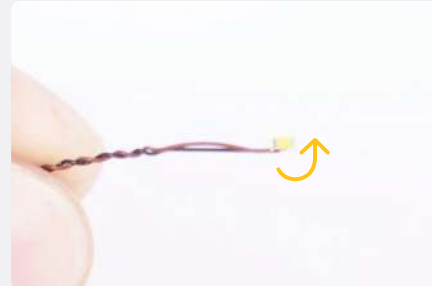
30cm Connecting Cable







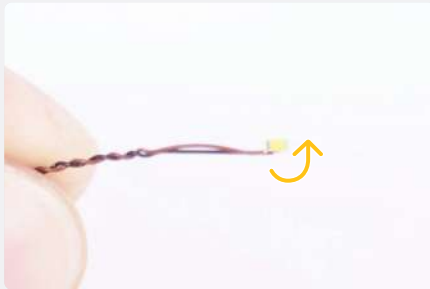
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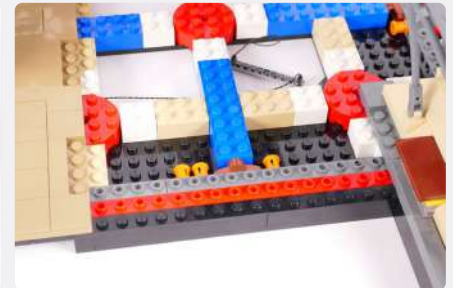
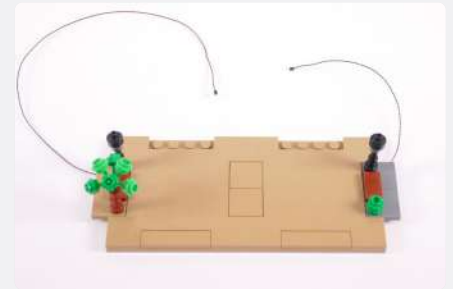
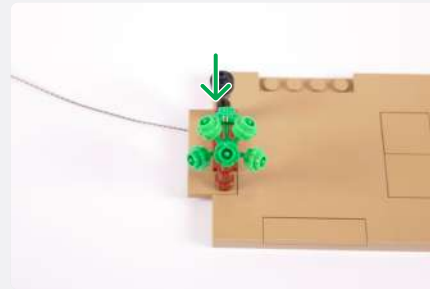
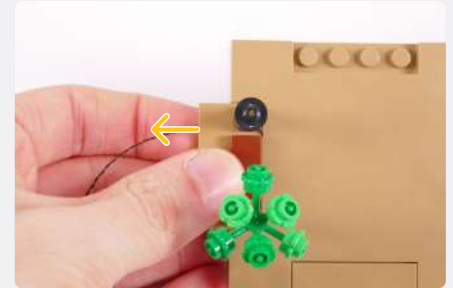
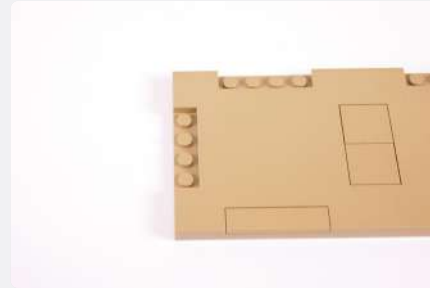
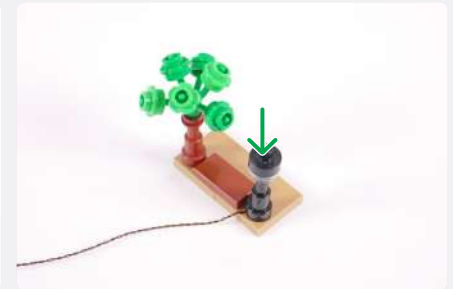
45

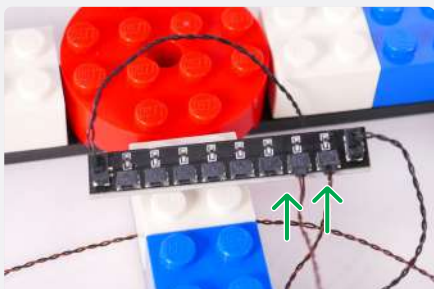
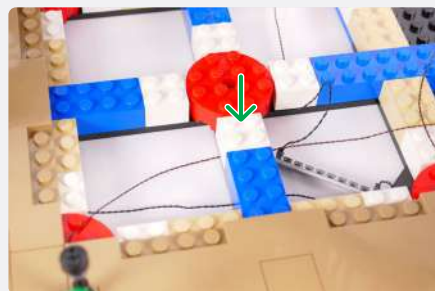
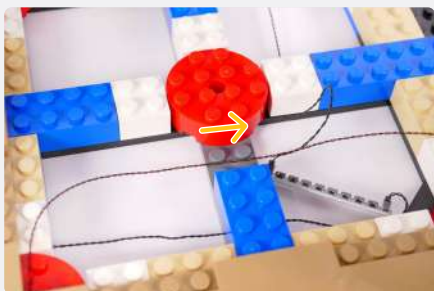
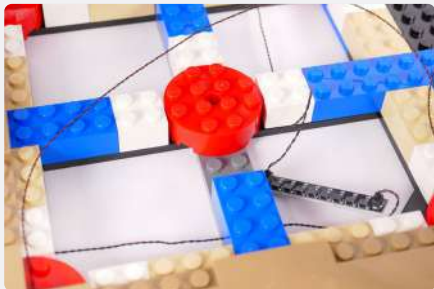
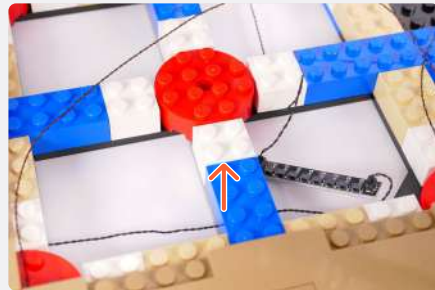
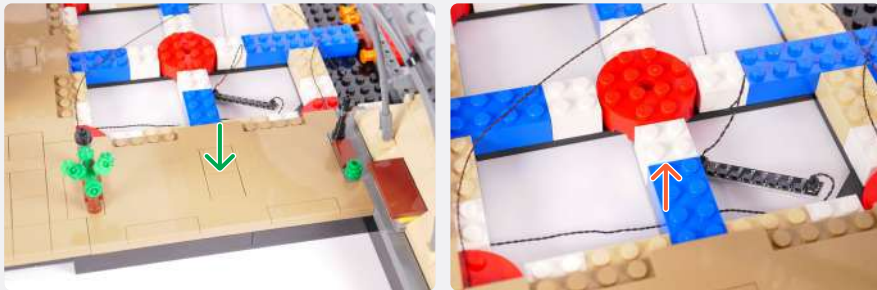


White 30cm Micro Bit Light

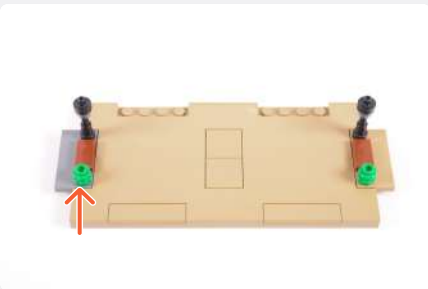


**46**

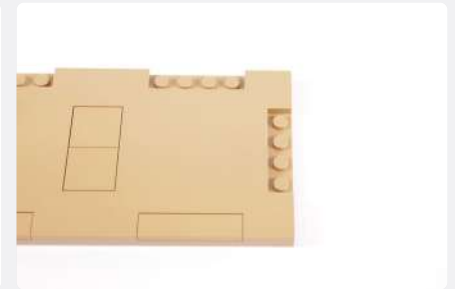
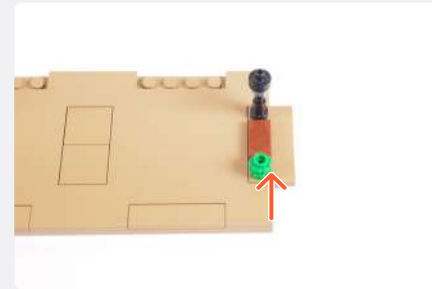
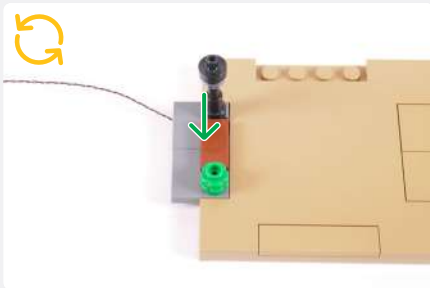
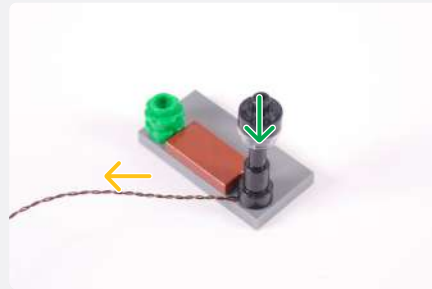
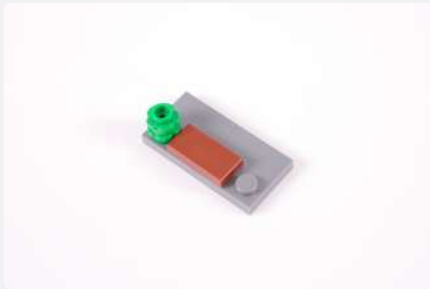
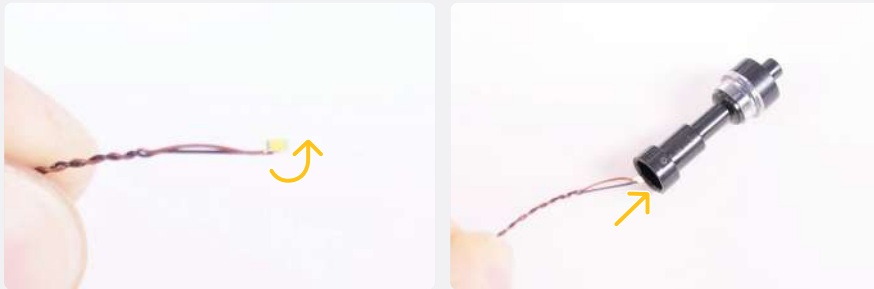




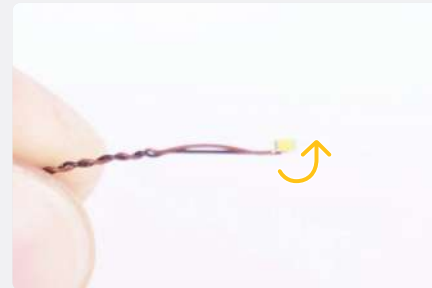
**47**

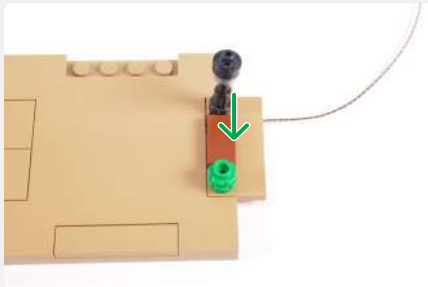
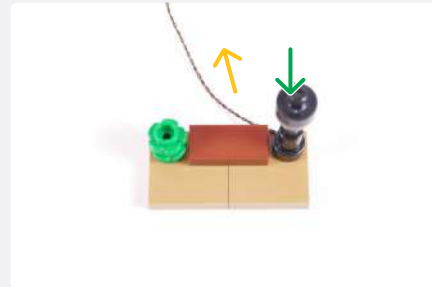


**48**

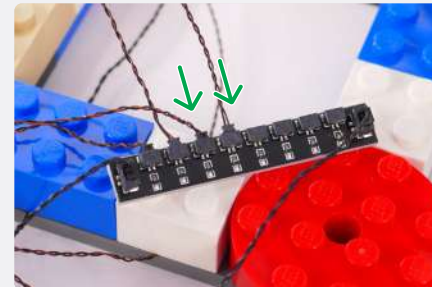
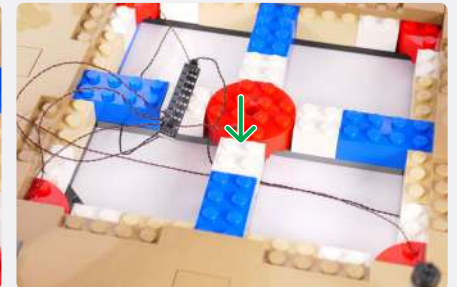
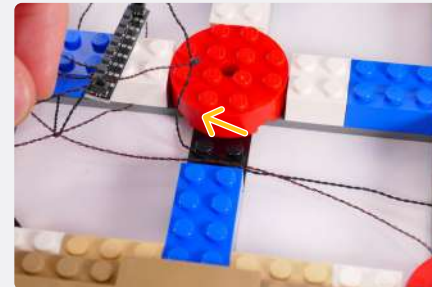
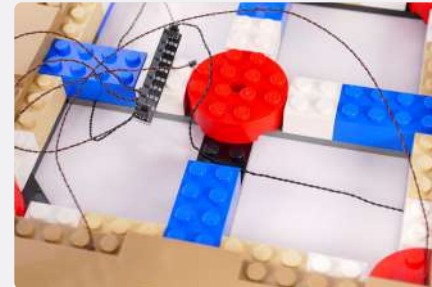
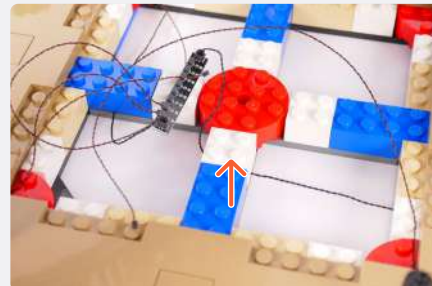
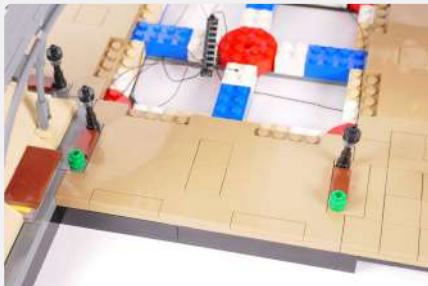
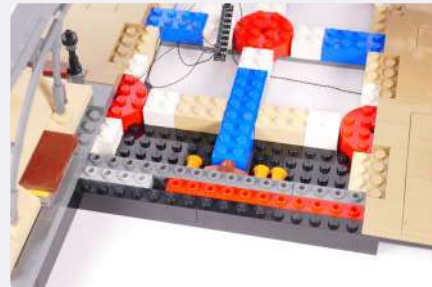


White 30cm Micro Bit Light



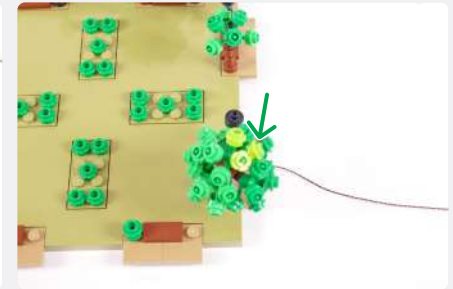


49



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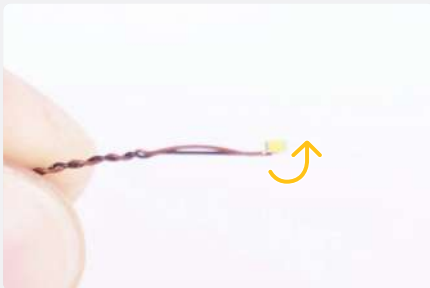




White 30cm Micro Bit Light

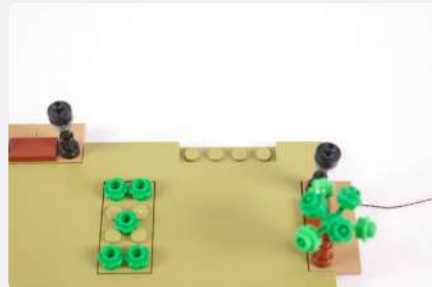
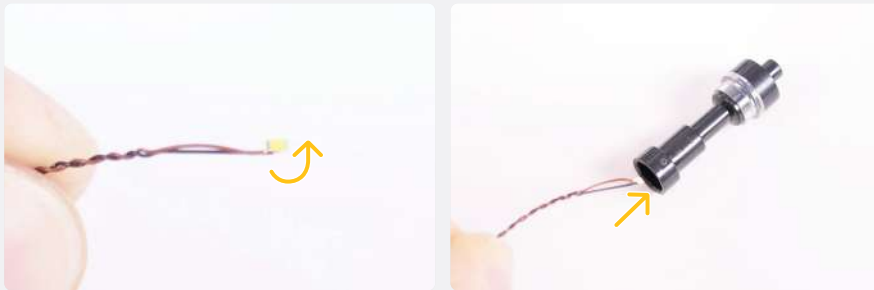


**51**

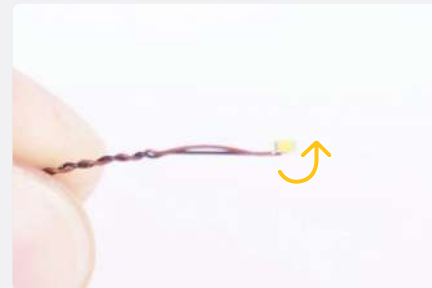


White 30cm Micro Bit Light





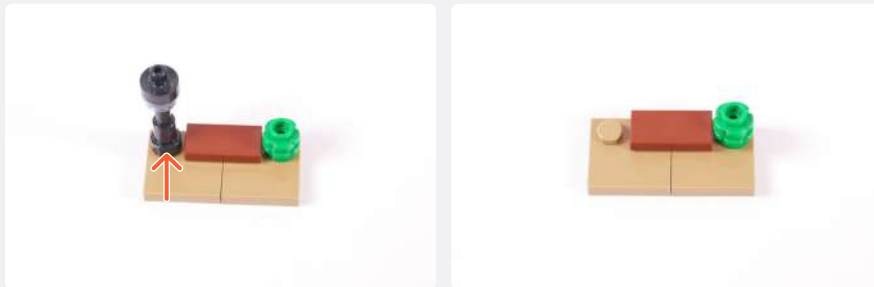
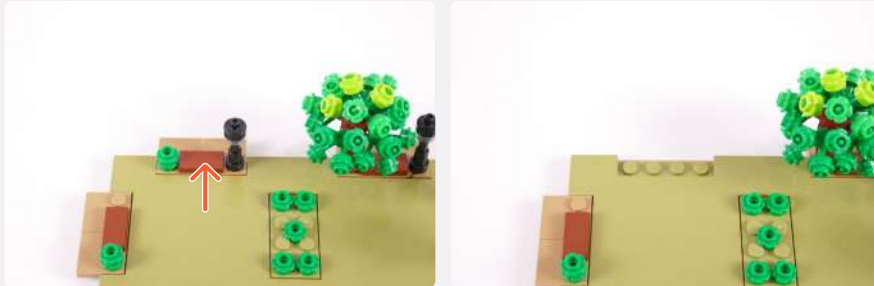
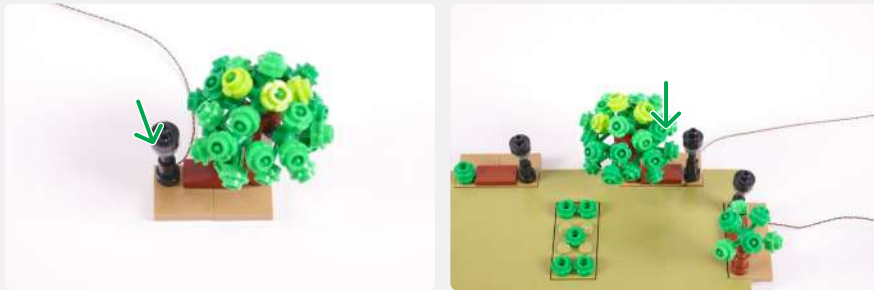
White 30cm Micro Bit Light



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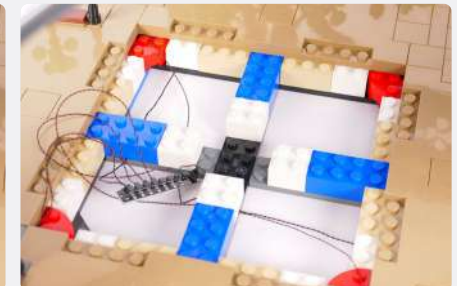
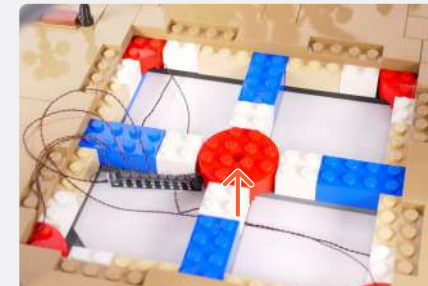
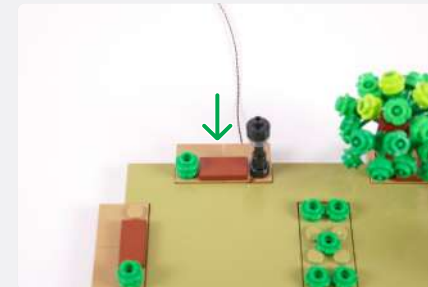
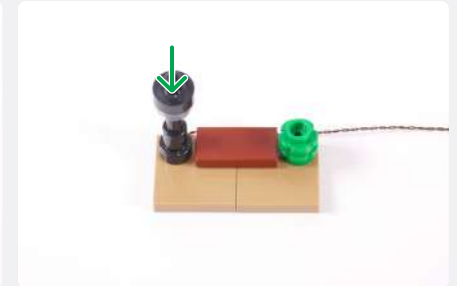
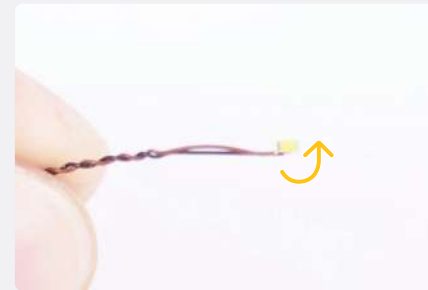
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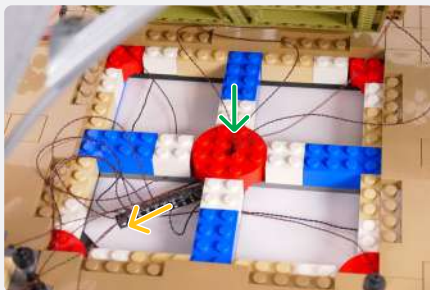
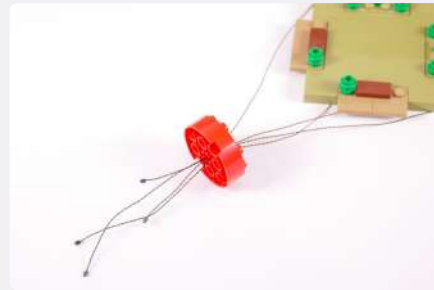
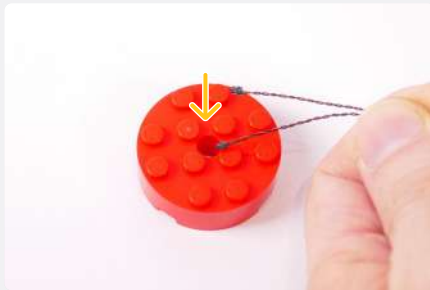
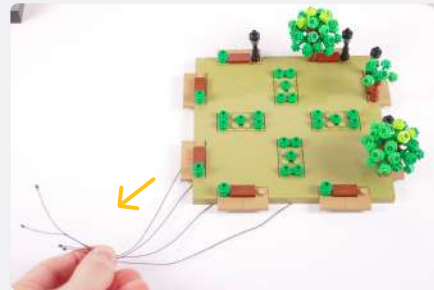


White 30cm Micro Bit Light

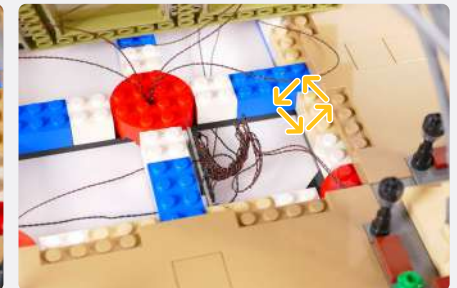
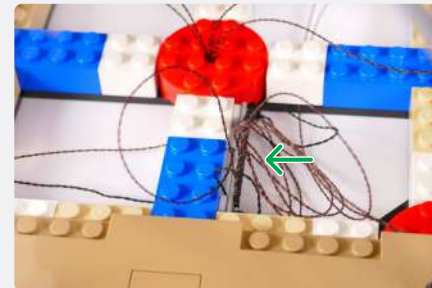
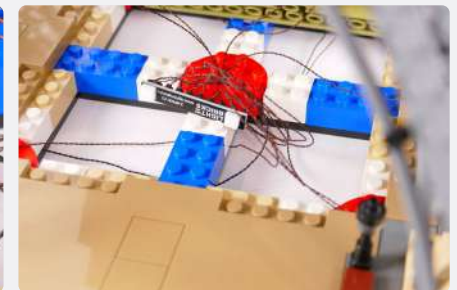
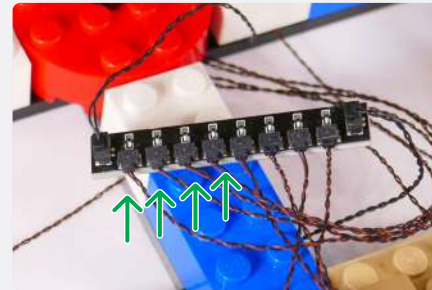
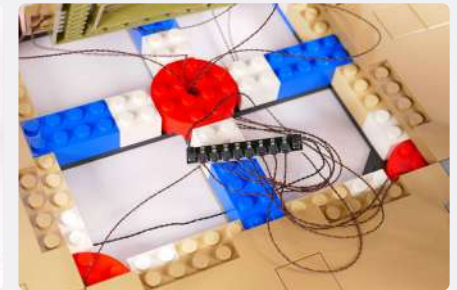


**54**





**55**





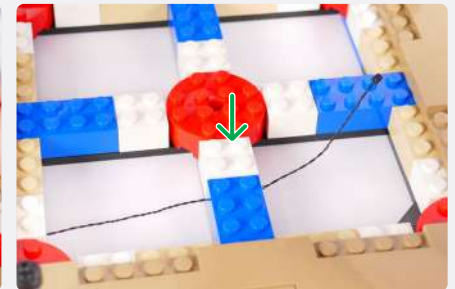
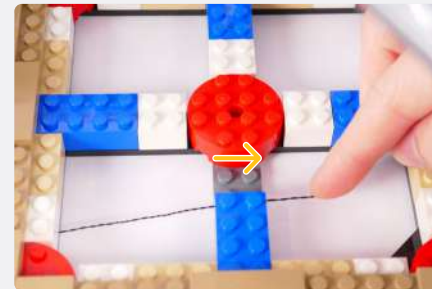
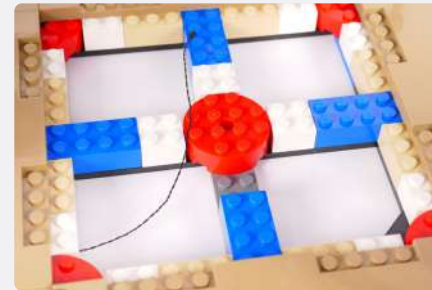
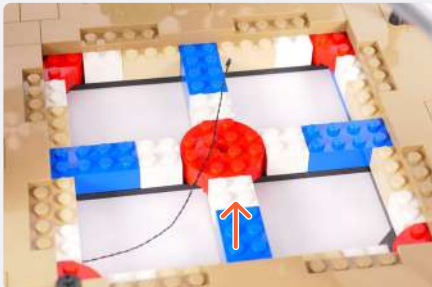
**NOTE**

Connect to a 5V USB Wall Adaptor (sold separately). A power bank or battery pack is not recommended to power this set.

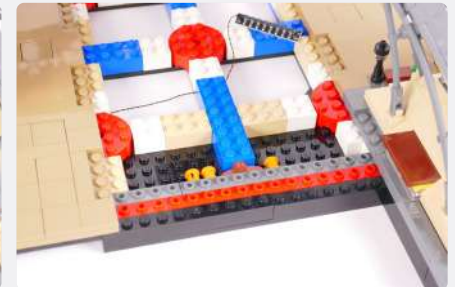
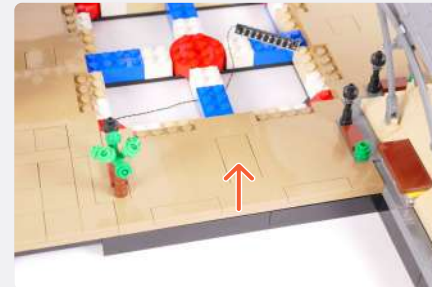


! If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing expansion board issues in our troubleshooting section. i

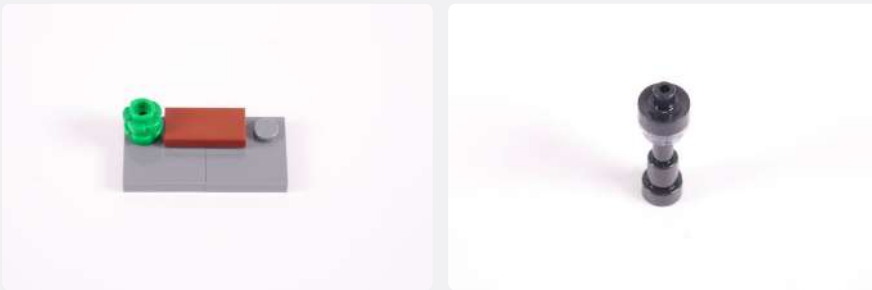
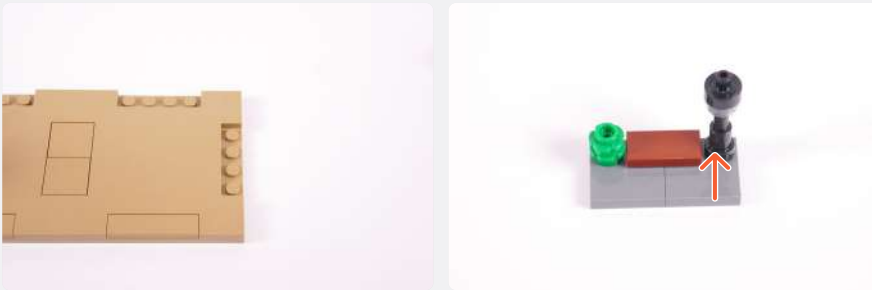
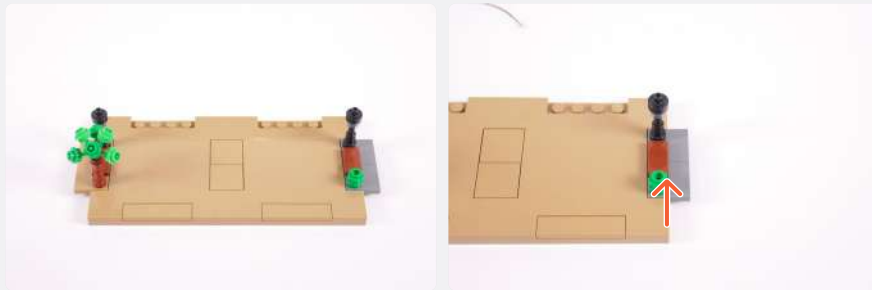
56



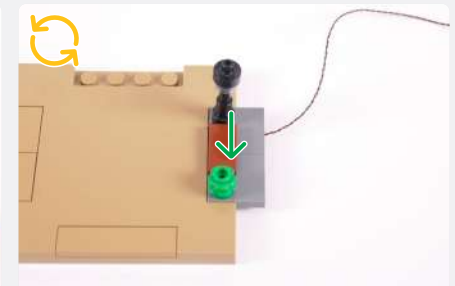
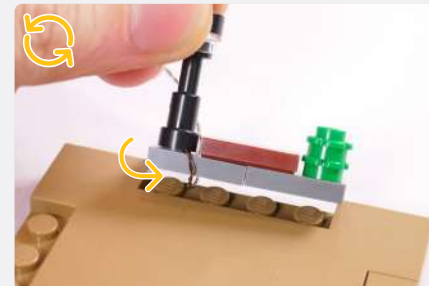
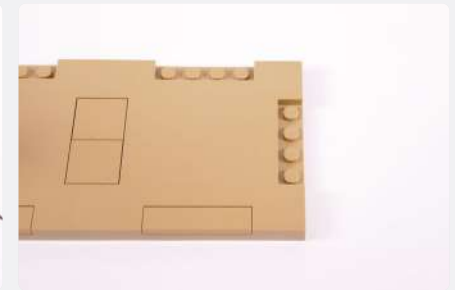
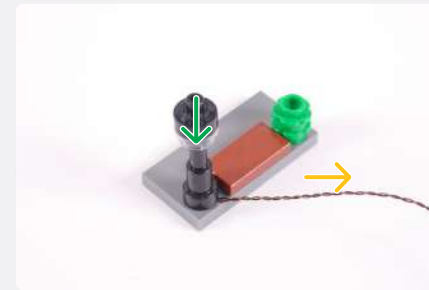
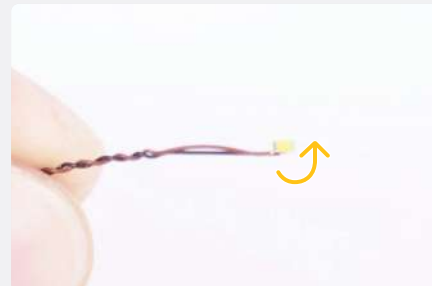
**8-Port Micro Expansion Board**



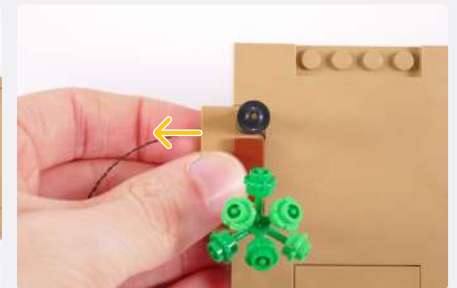
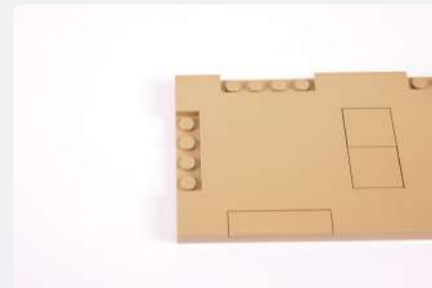
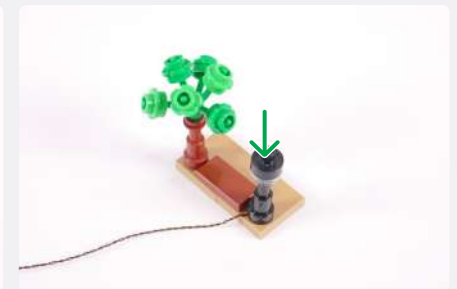
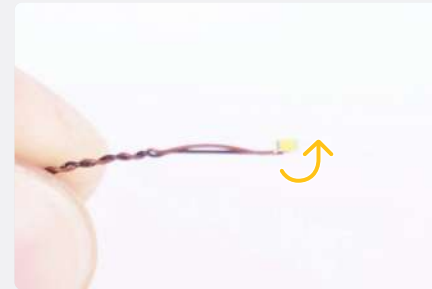
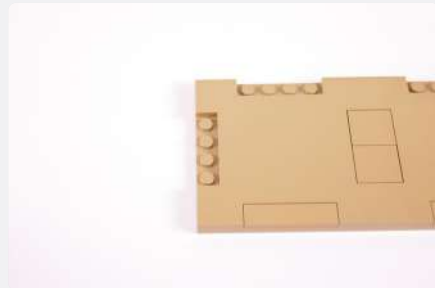
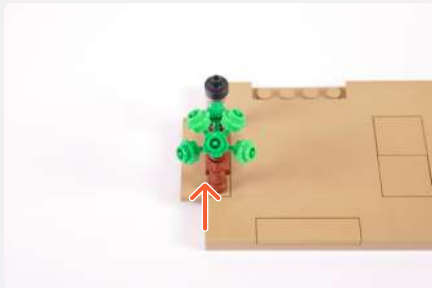
57



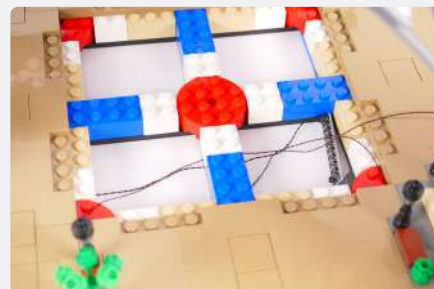
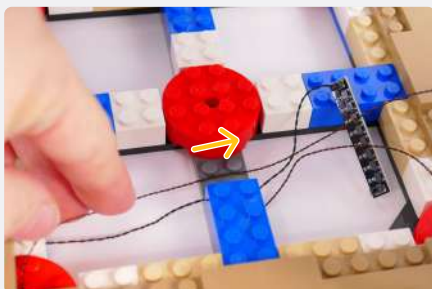
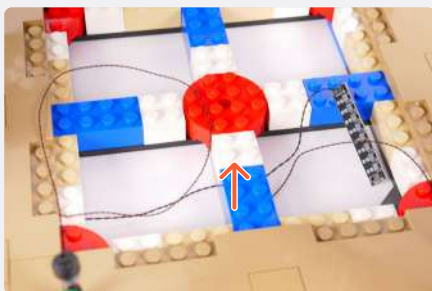
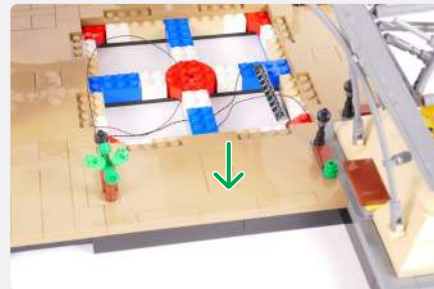
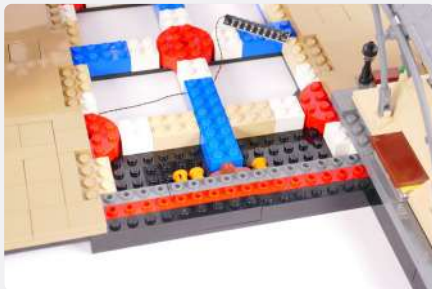
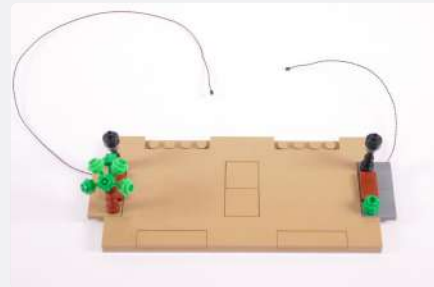
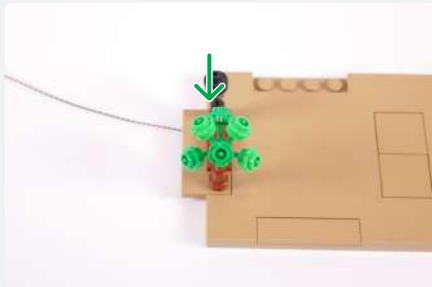
White 15cm Micro Bit Light



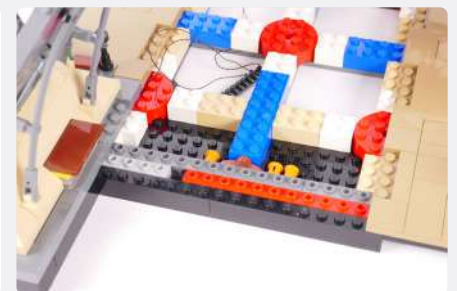
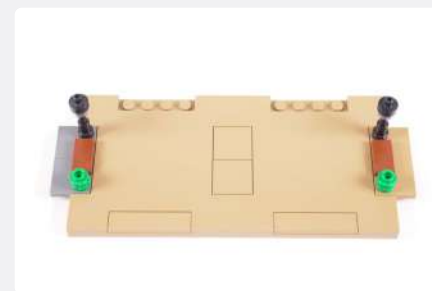
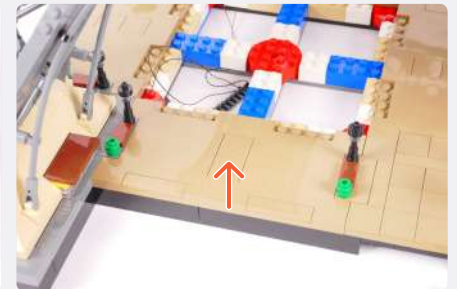
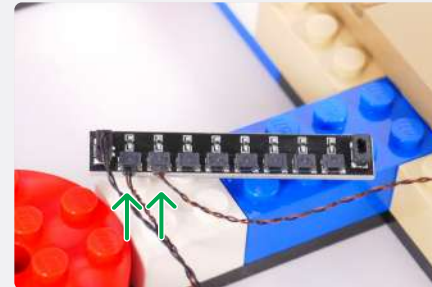
58



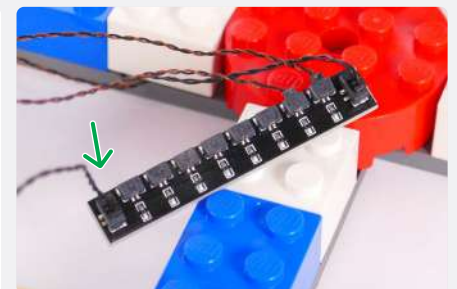
59

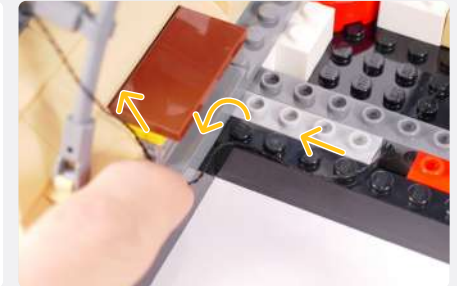
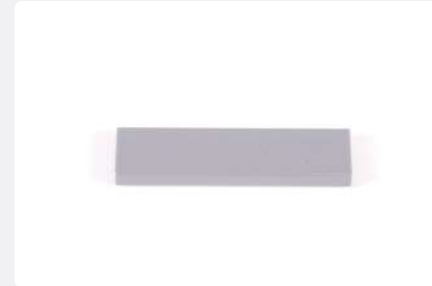
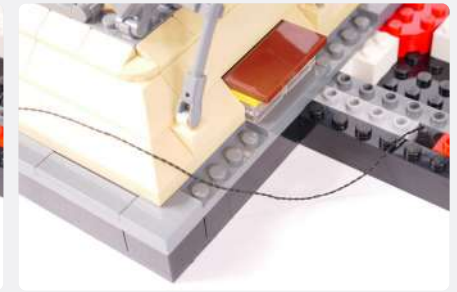
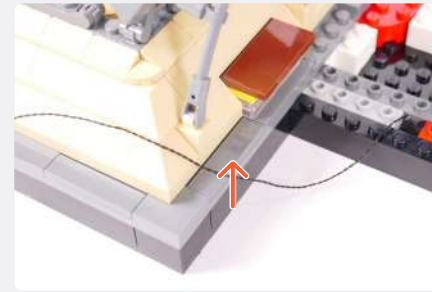
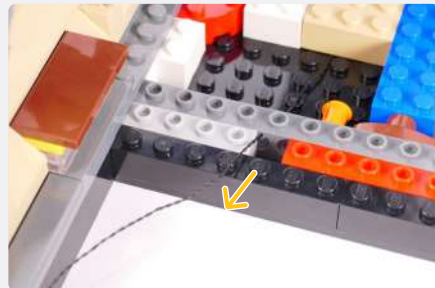
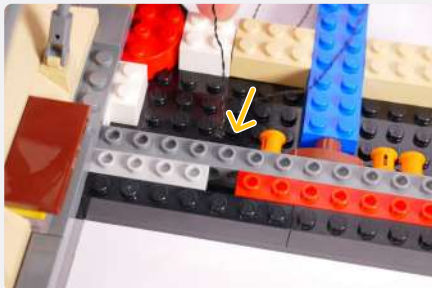
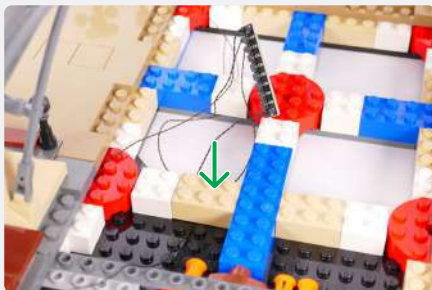
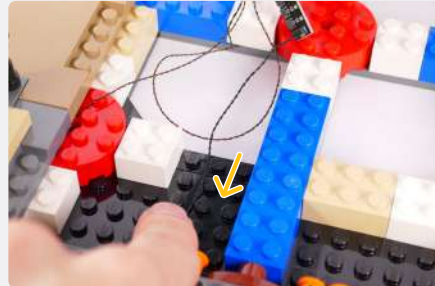
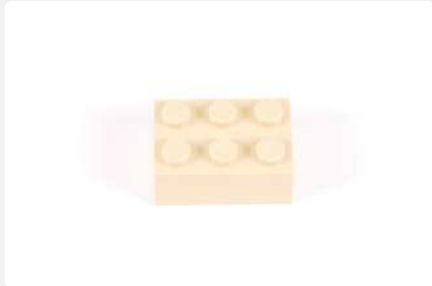
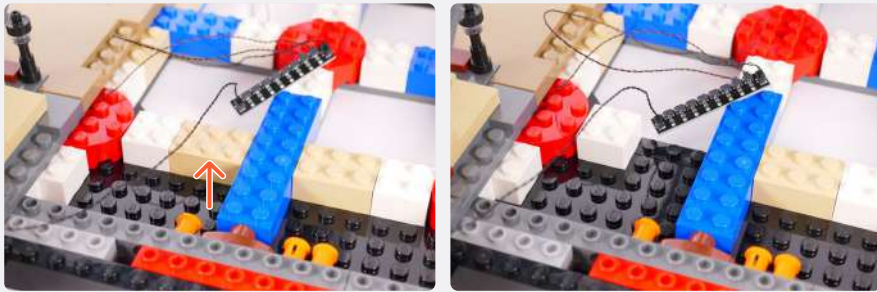


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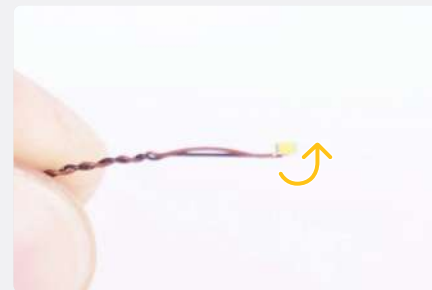
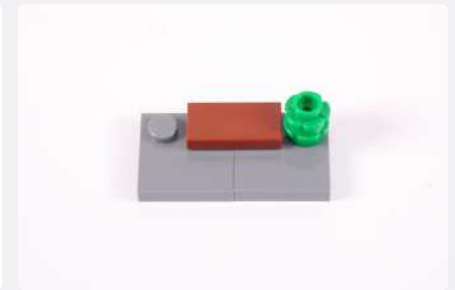
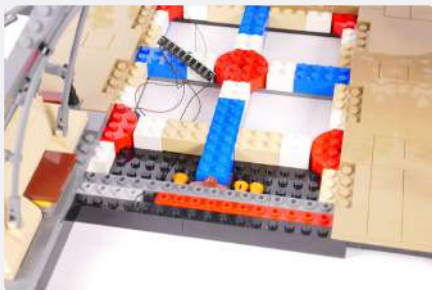
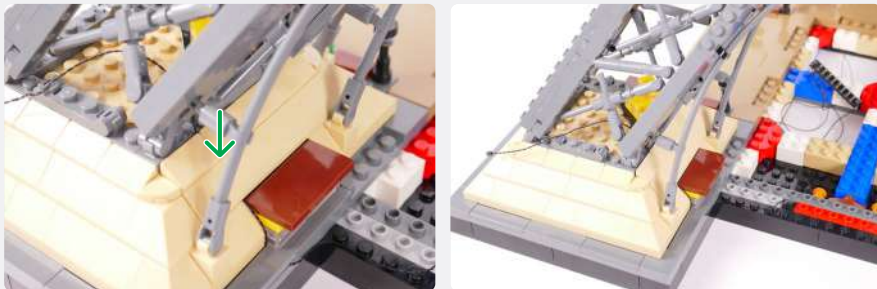
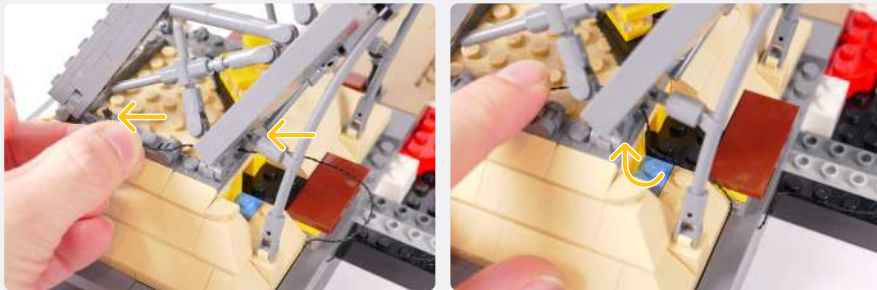


30cm Connecting Cable



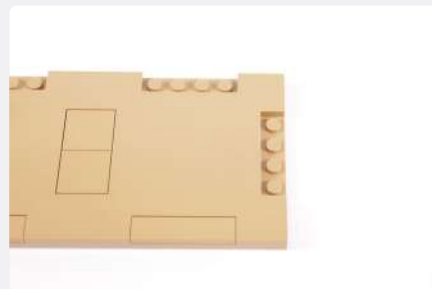
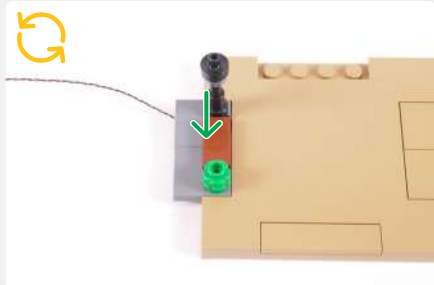
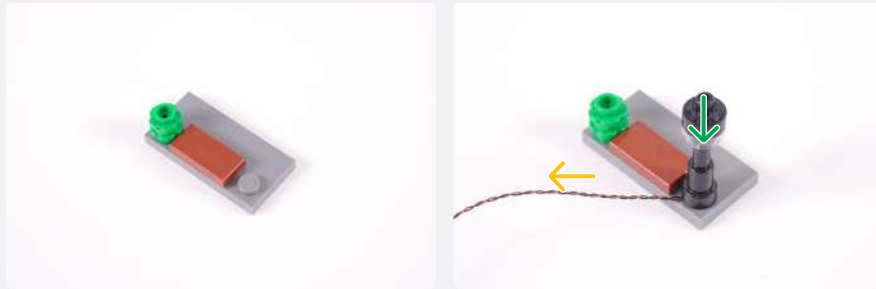


**61**

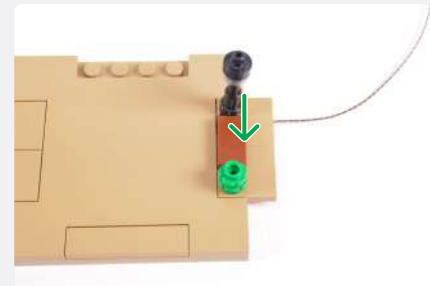
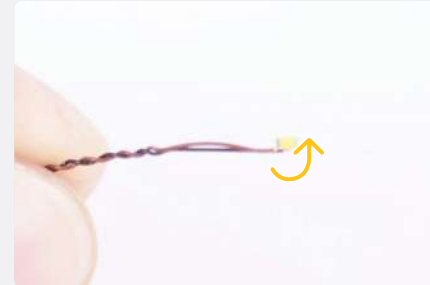


**62**



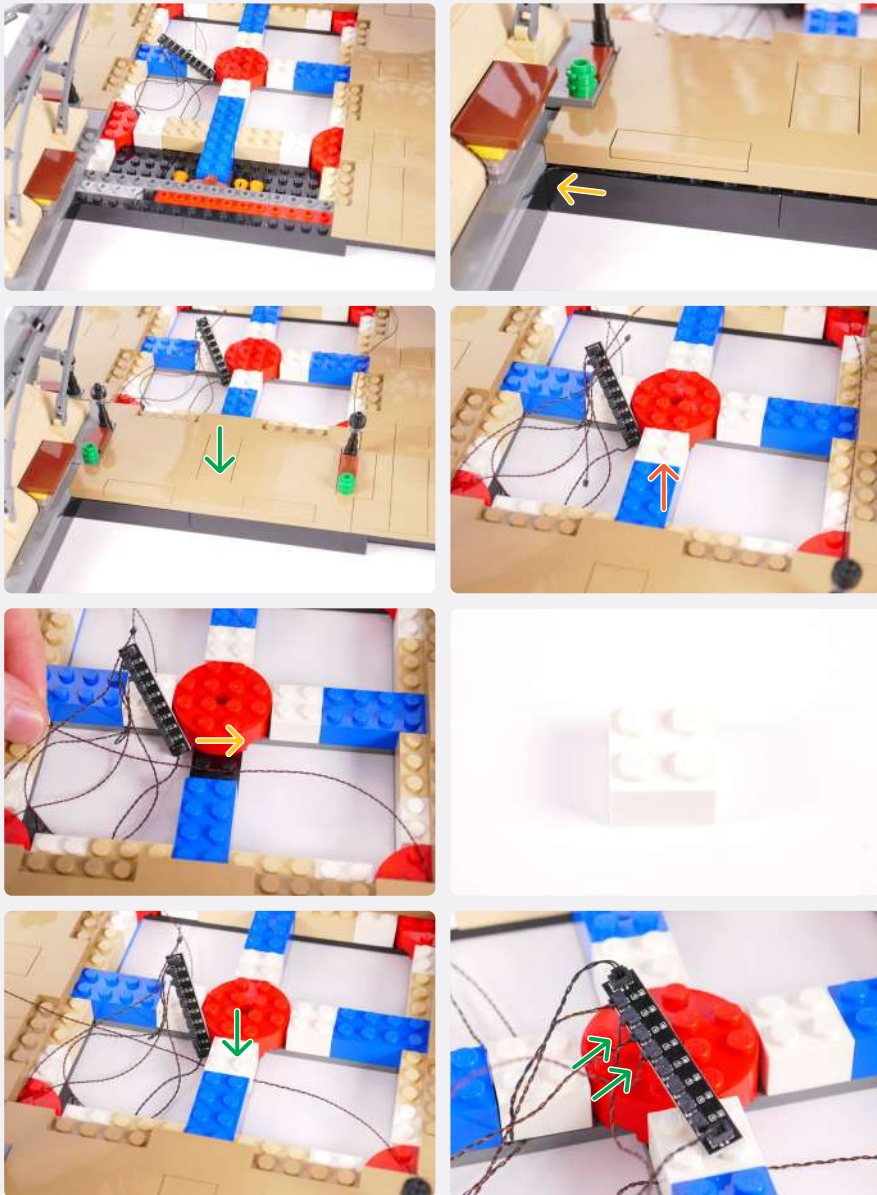


White 30cm Micro Bit Light

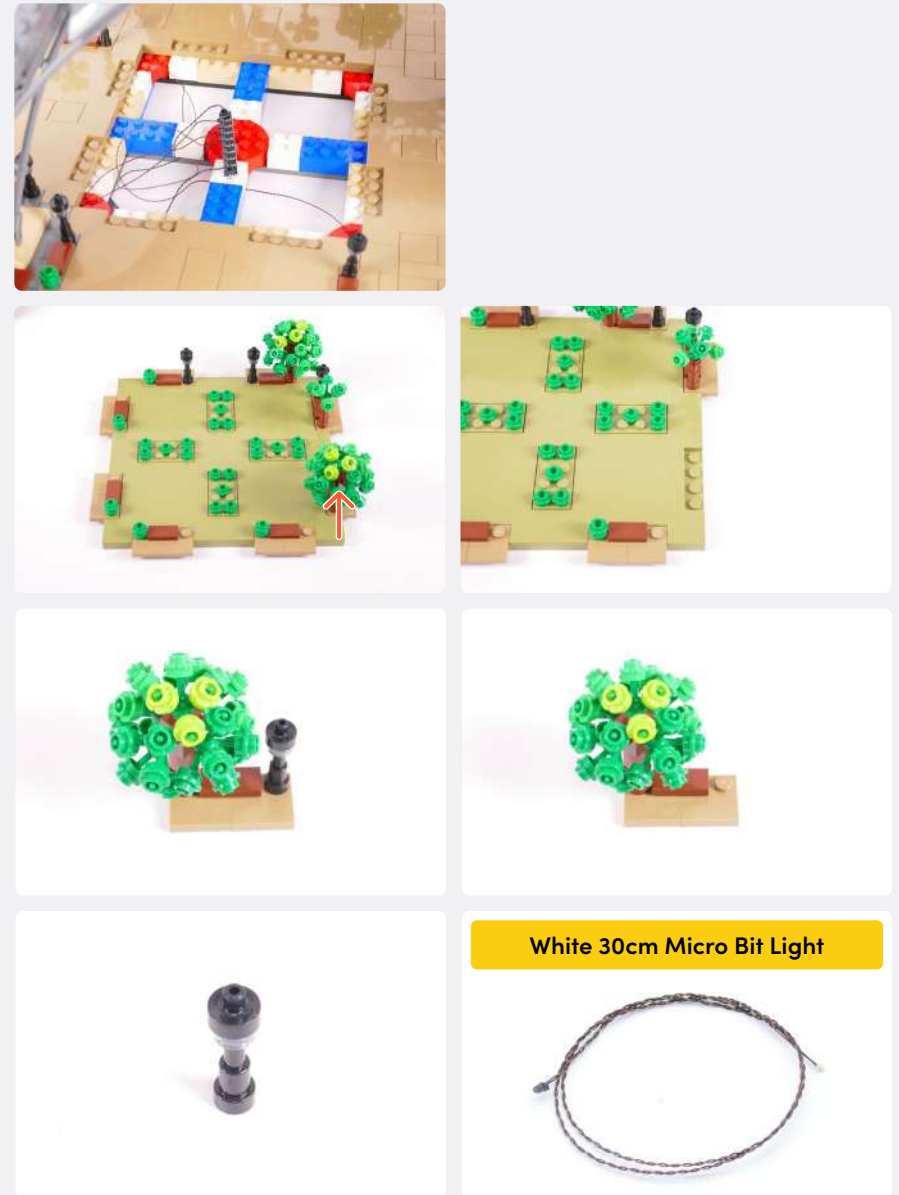


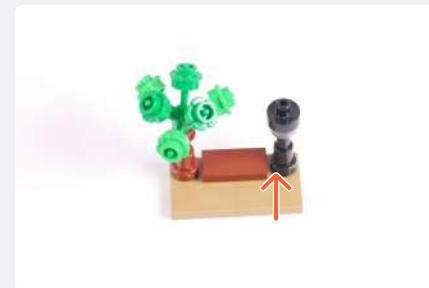
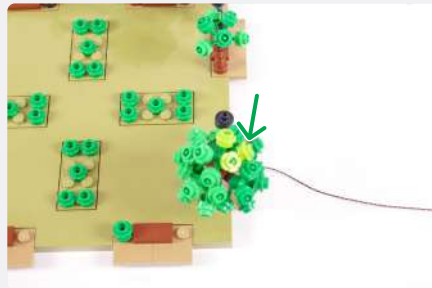
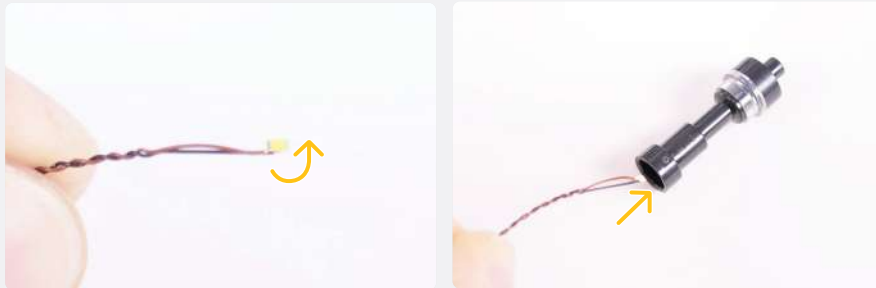
63

**64**

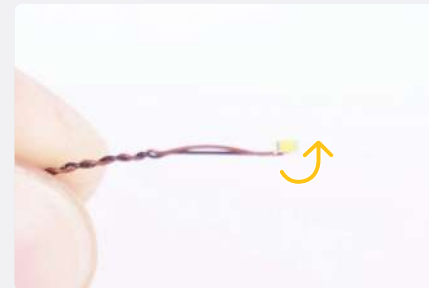


**65**

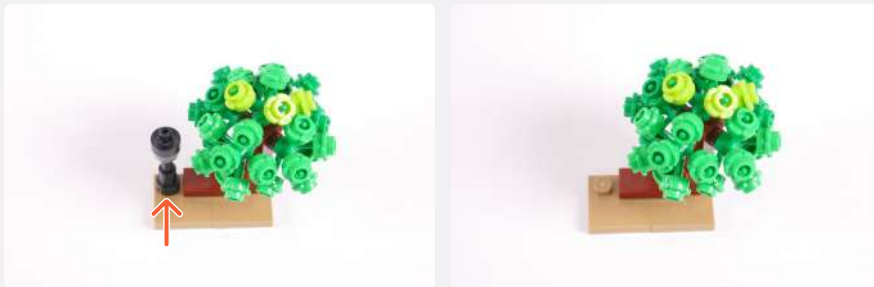
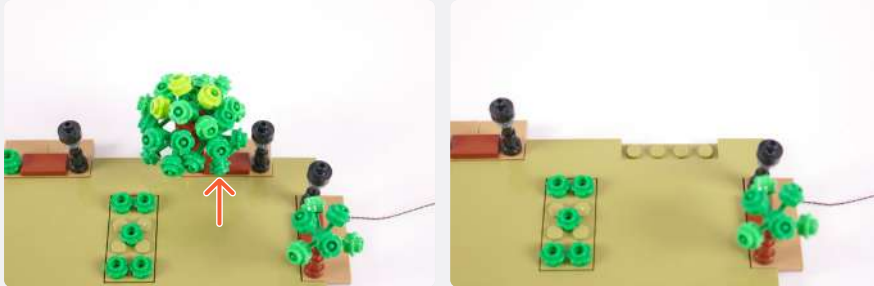
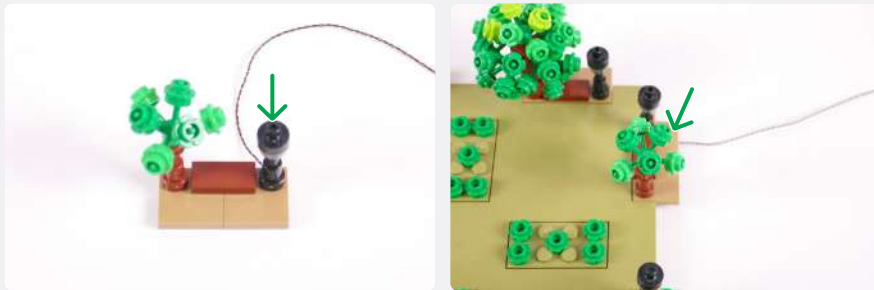




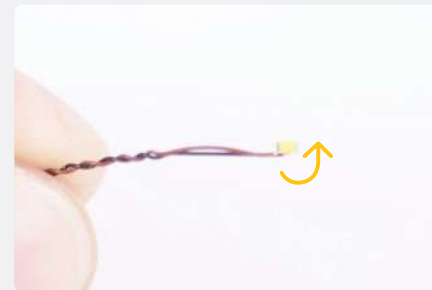
White 30cm Micro Bit Light



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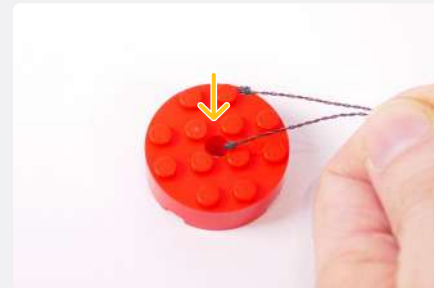
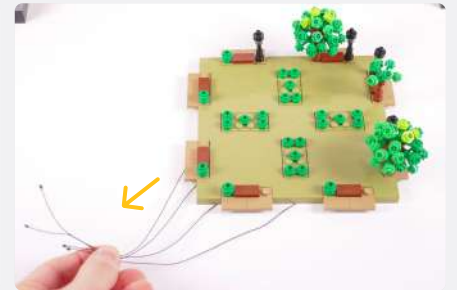
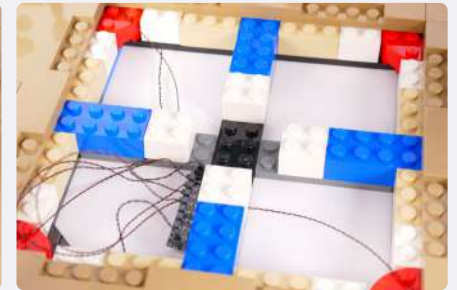
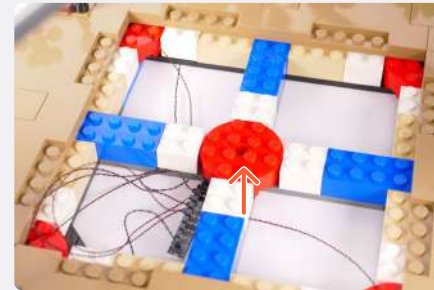
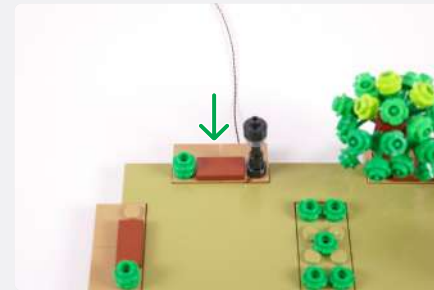
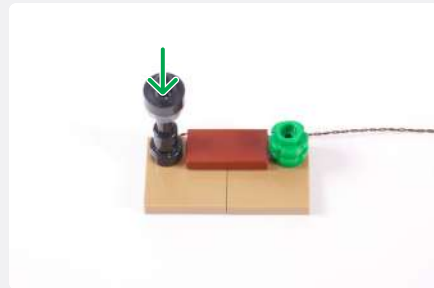
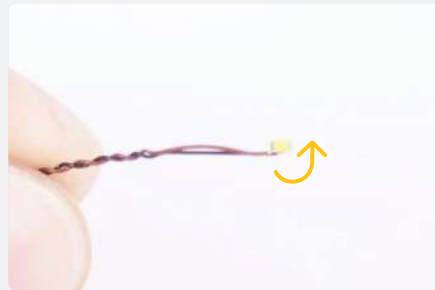


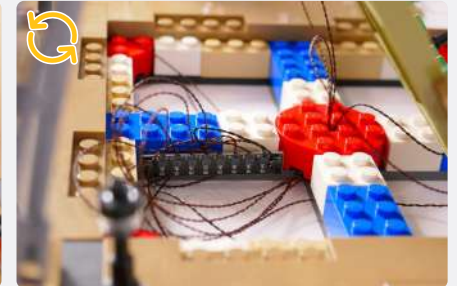
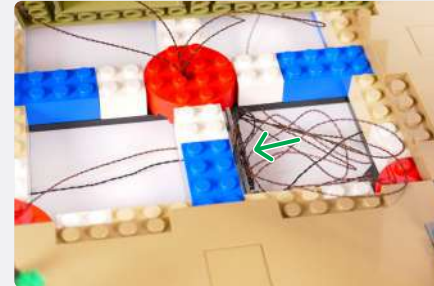
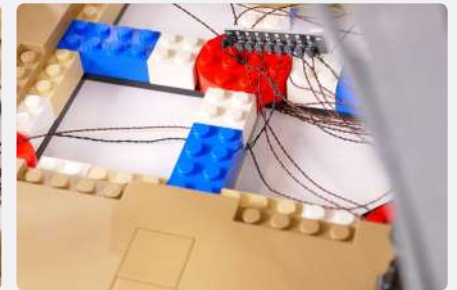
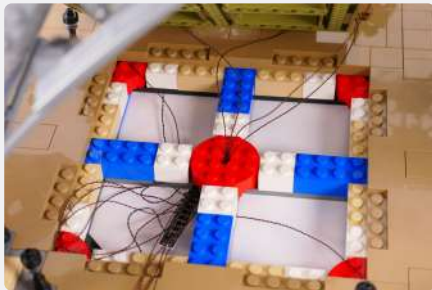


White 30cm Micro Bit Light

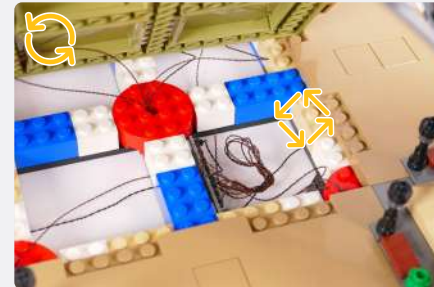
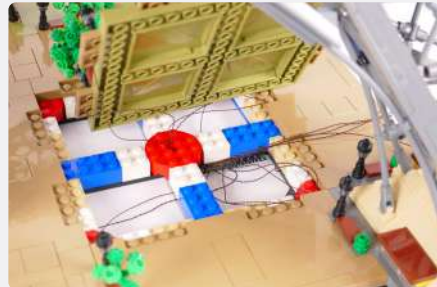


69





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2x Adhesive Square

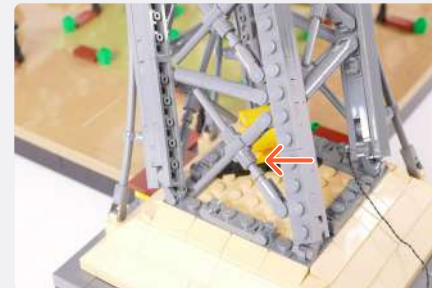
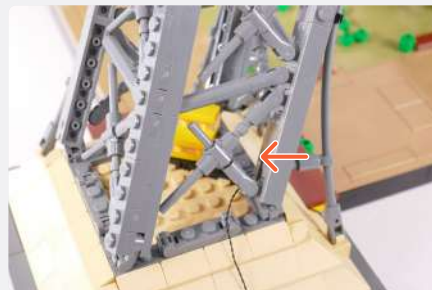
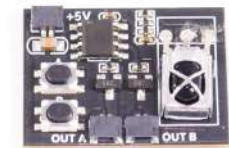



**NOTE**

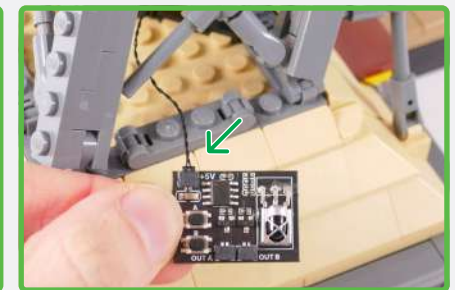
Connect to a 5V USB Wall Adaptor (sold separately). A power bank or battery pack is not recommended to power this set.



! If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing expansion board issues in our troubleshooting section. i


**71**

**IR Switch Board**

**NOTE**

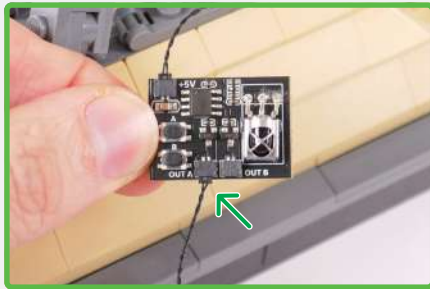
Connect the loose 30cm Connecting Cable into the "+5V" port of the IR Switch Board.


**50cm Connecting Cable**

**NOTE**

Connect a 50cm Connecting Cable into the "OUT A" port of the IR Switch Board.

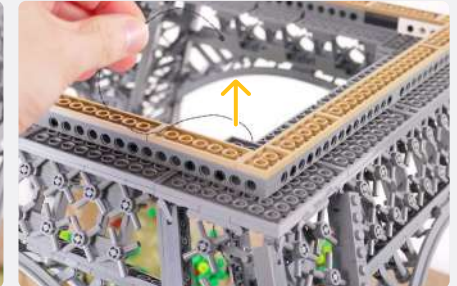




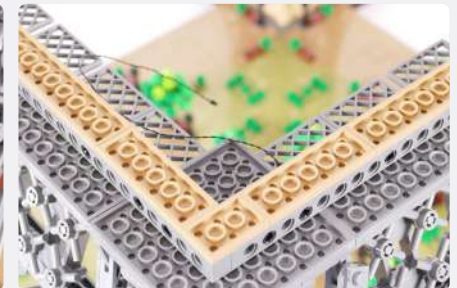
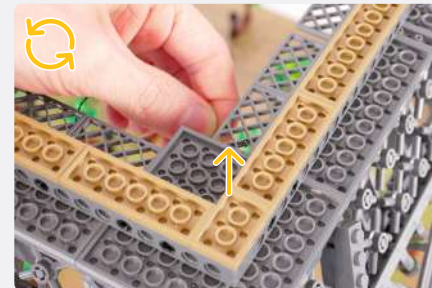
72

**NOTE**

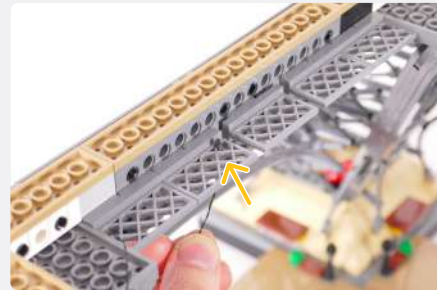
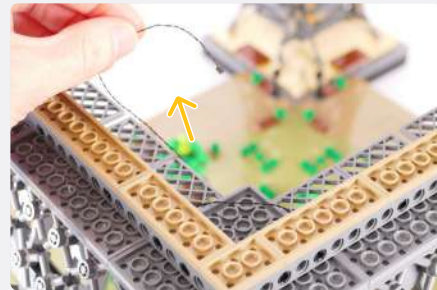
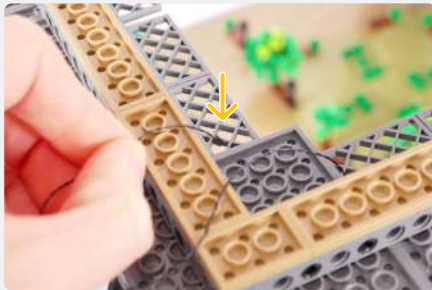
Wrap the 50cm Connecting Cable up the tower leg. Follow the guide photos as closely as possible.



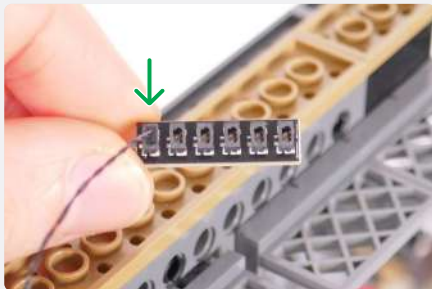
73







6-Port Expansion Board



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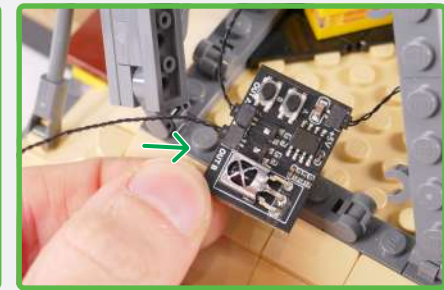


5cm Connecting Cable



**NOTE**

Connect a 5cm Connecting Cable into the "OUT B" port of the IR Switch Board.

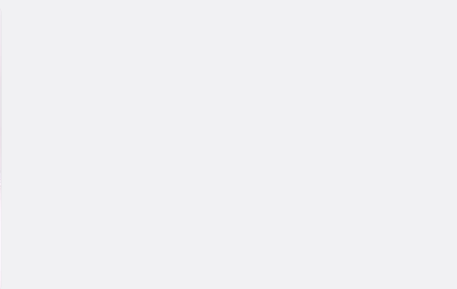
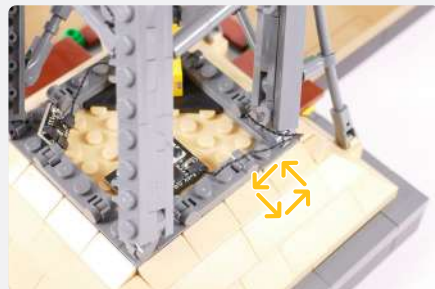
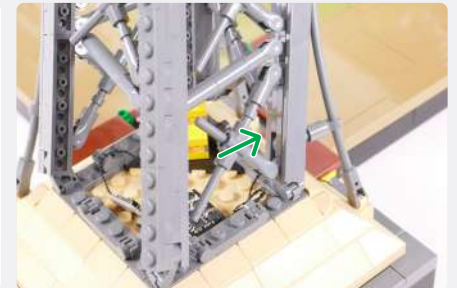
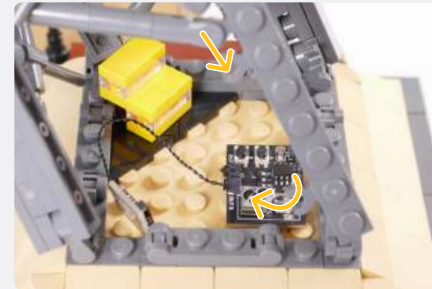
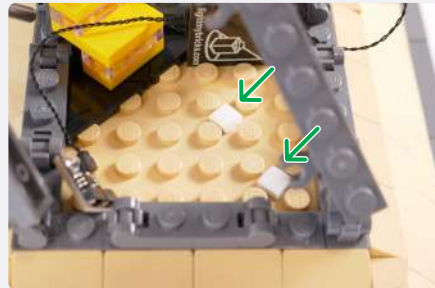
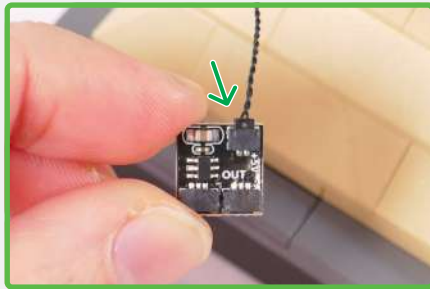


3Pin Sparkle Effects Control Board

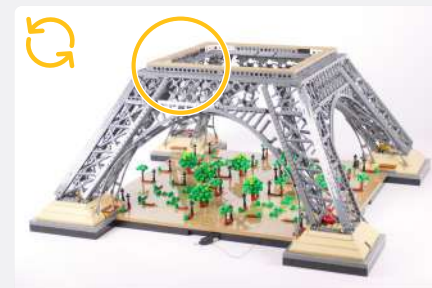


**NOTE**

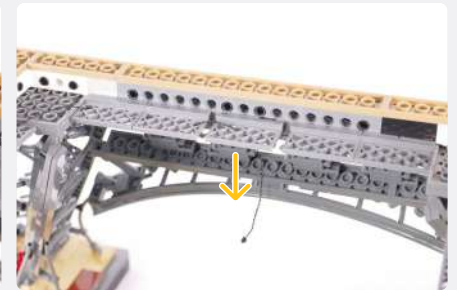
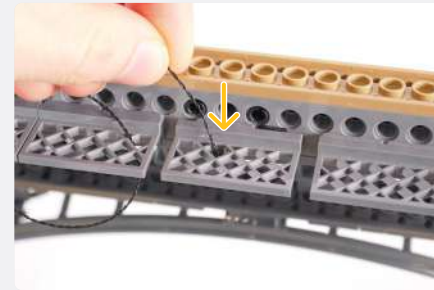
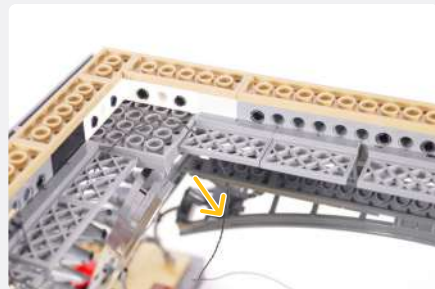
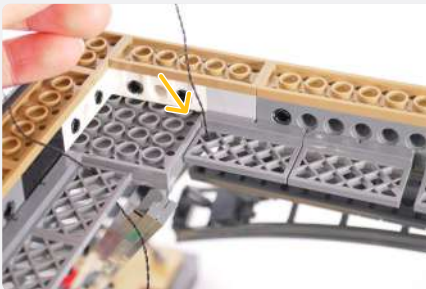
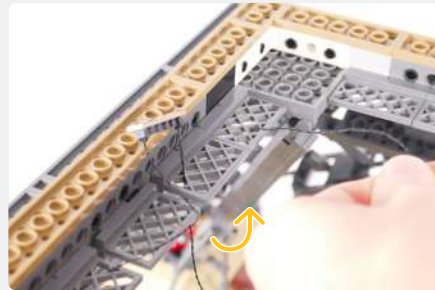
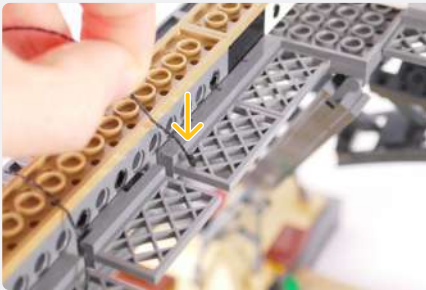
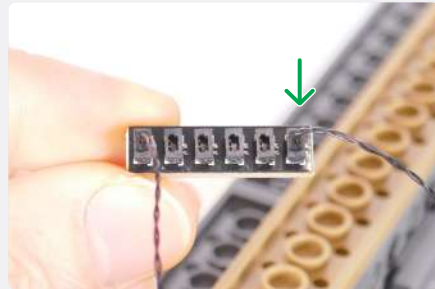
Connect the other end of the 5cm Connecting Cable into the "+5V" port of the 3Pin Sparkle Effects Control Board.



**75**



**30cm Connecting Cable**

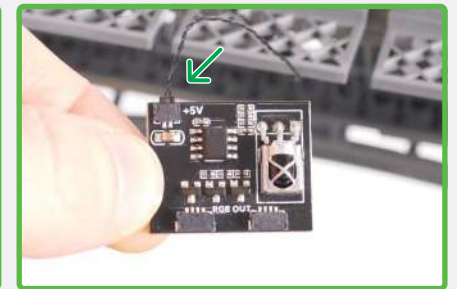


**RGB IR Control Board**

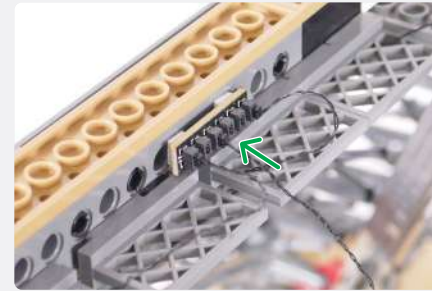
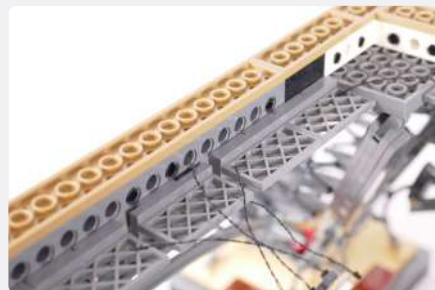
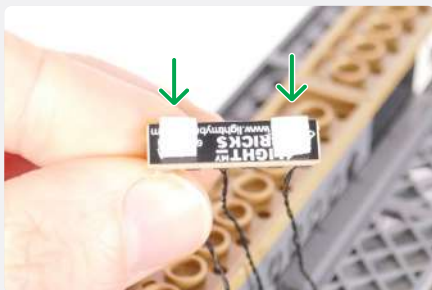
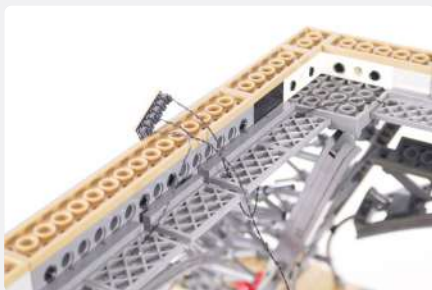
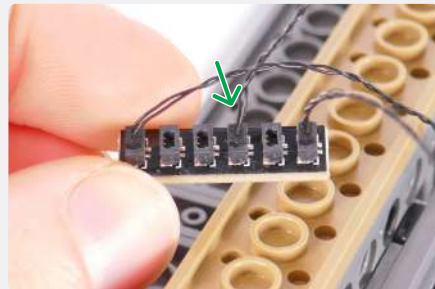


 **NOTE**

Connect the 30cm Connecting Cable from the 6-Port Expansion Board into the "+5V" port of the RGB IR Control Board.

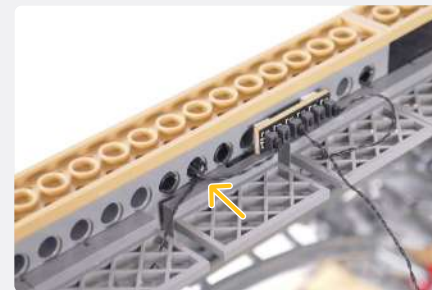
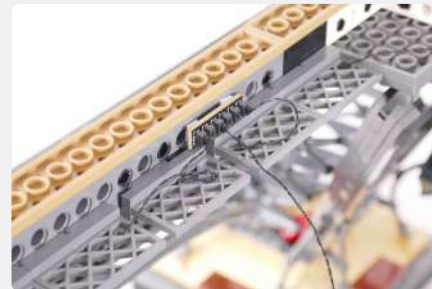
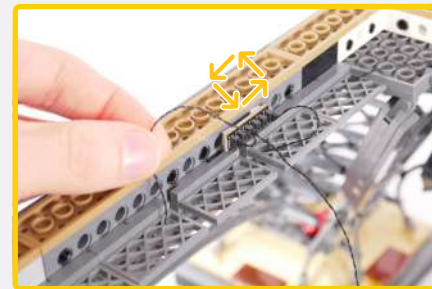


**76**

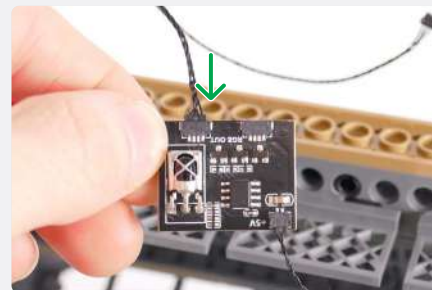


**NOTE**

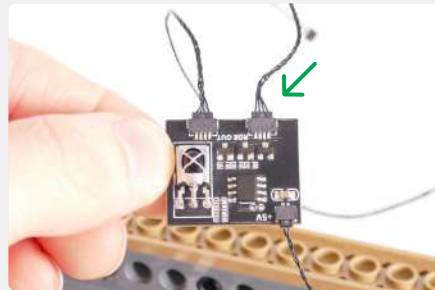
Twist the 50cm Connecting Cable from Step 71 only.



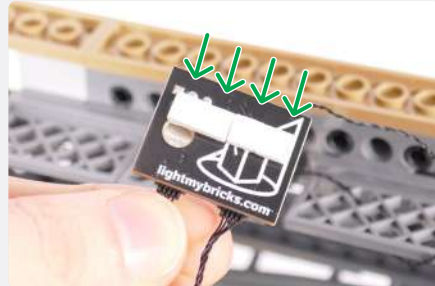
**77**



RGB 15cm Connecting Cable



4x Adhesive Square

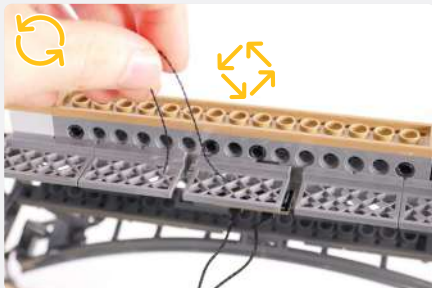
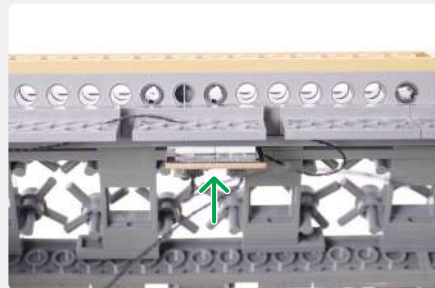


**78**

Tile 1x6 - Black



Brick 1x2 - Black



RGB Strip Light 2.0



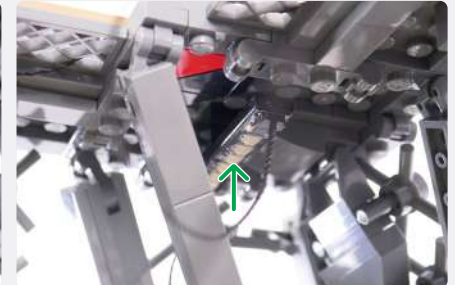
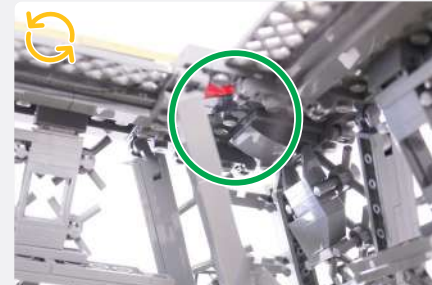
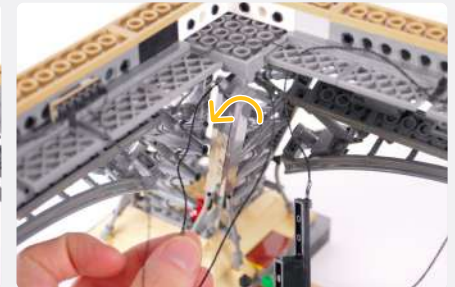
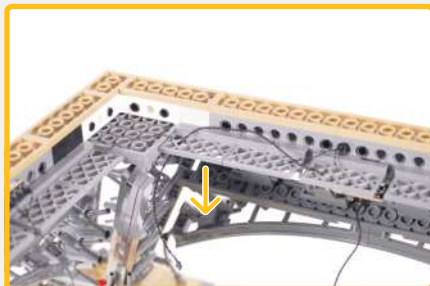
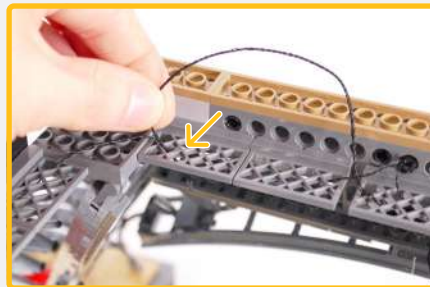
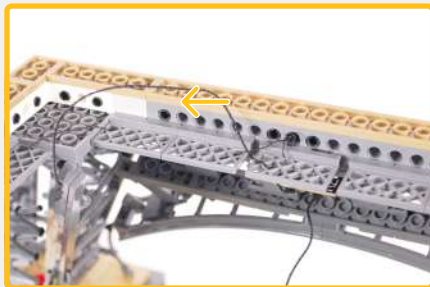
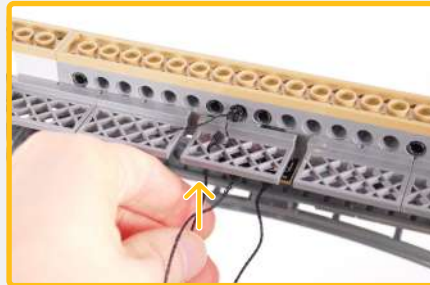
RGB 30cm Connecting Cable



**79**


**NOTE**

Take one of the two loose 15cm RGB Connecting Cables from Step 77 and thread as shown.

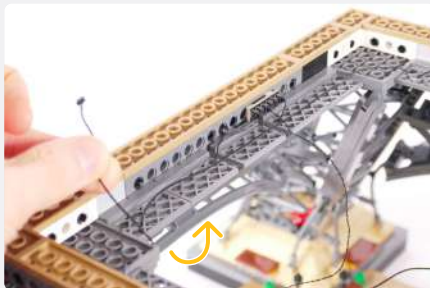
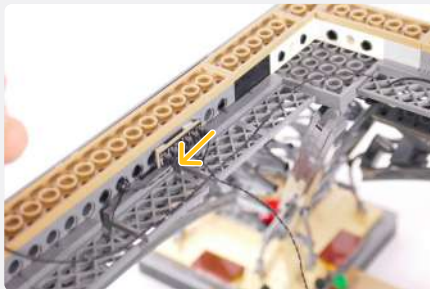
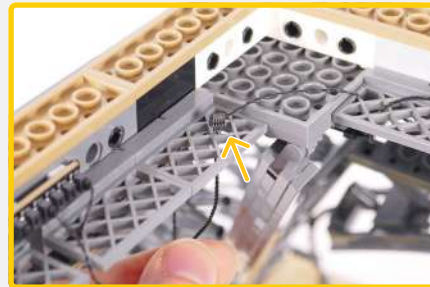


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NOTE

Take the end of the loose 30cm RGB Connecting Cable and thread it through.



Tile 1x6 - Black



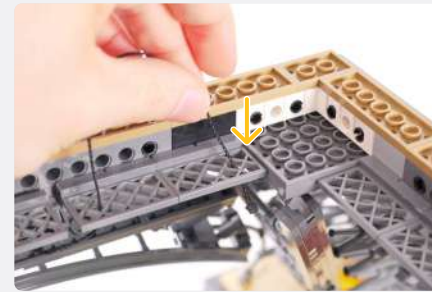
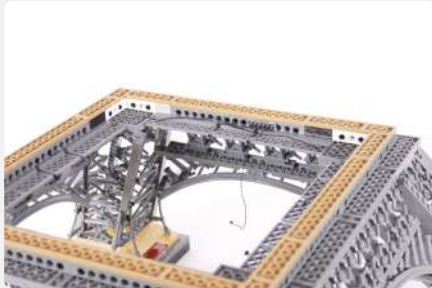
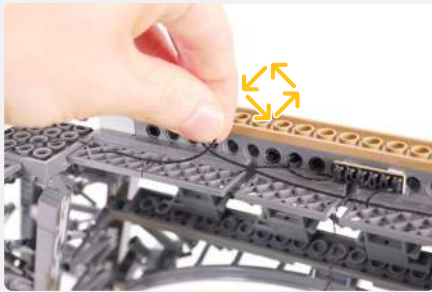
Brick 1x2 - Black



81


RGB Strip Light 2.0



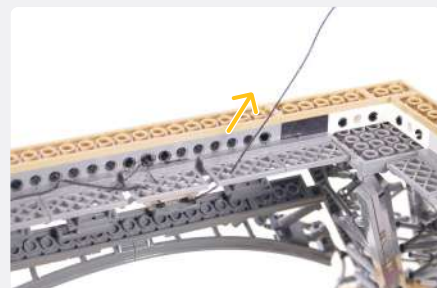


82



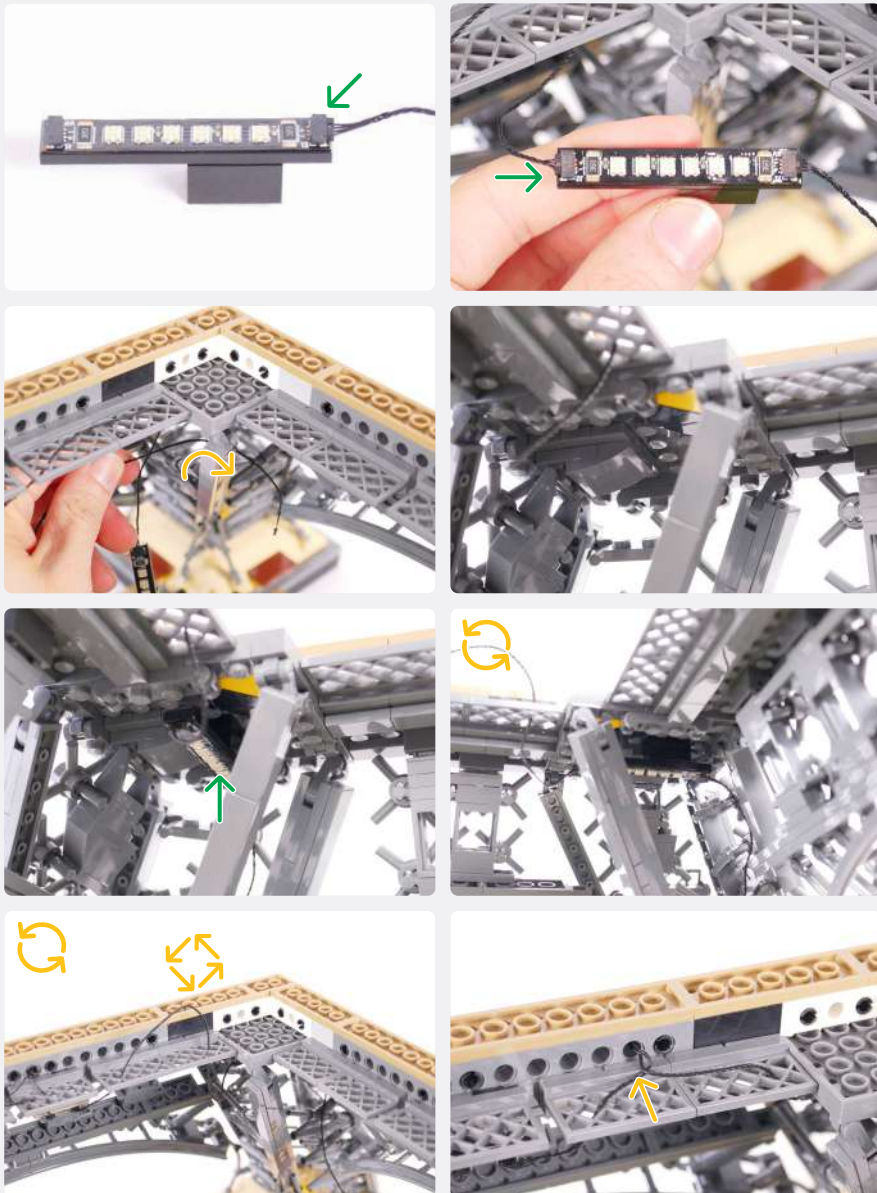
 **NOTE**

Take the loose 15cm RGB Connecting Cable from Step 77 and thread it as shown.

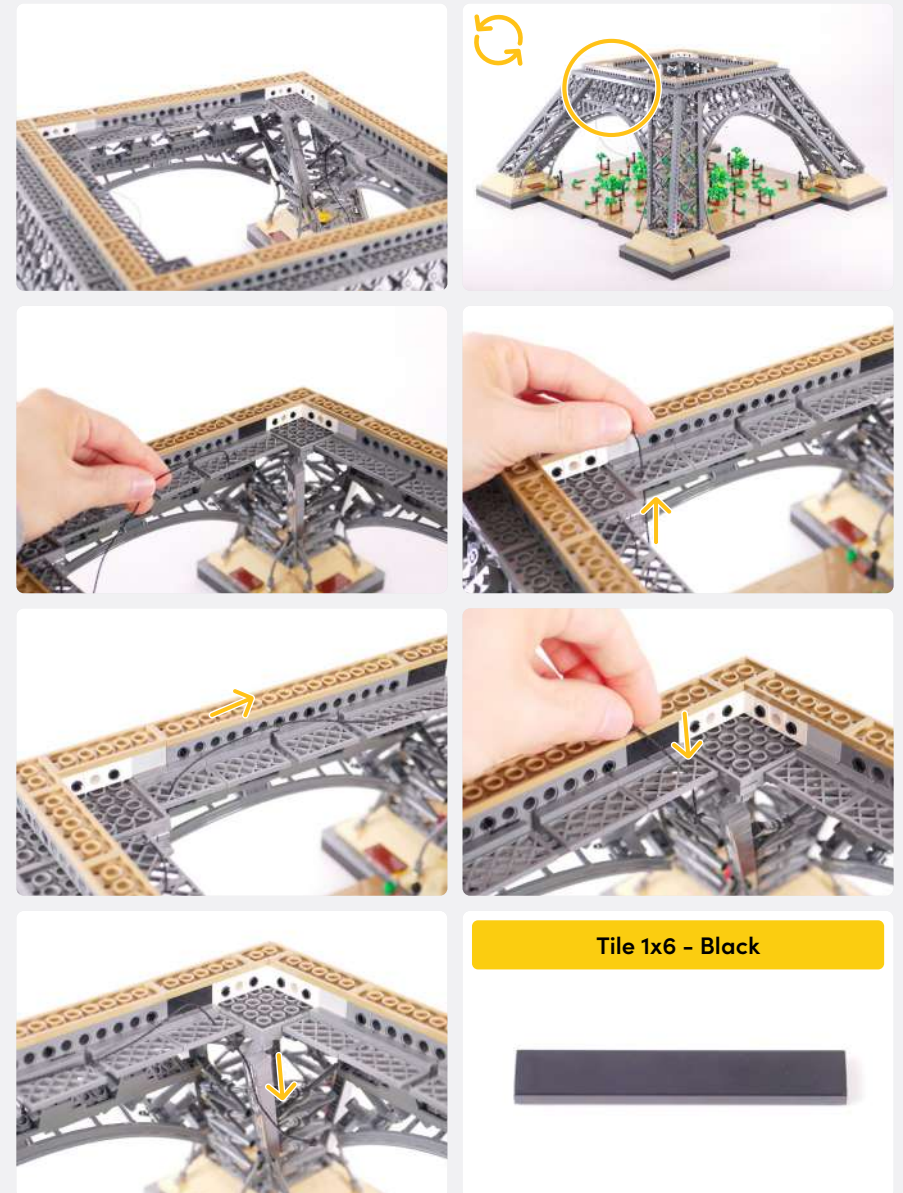


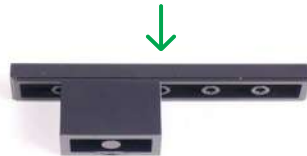


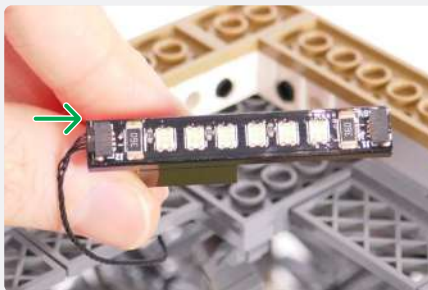
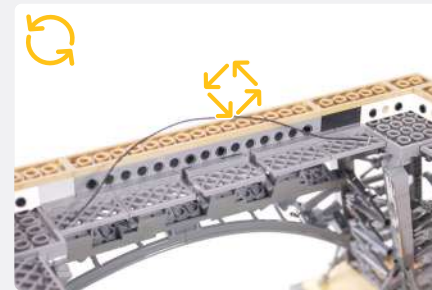
83



84



**Brick 1x2 - Black**

**RGB Strip Light 2.0**

**85**

**86**

**NOTE**

Connect to a 5V USB Wall Adaptor (sold separately). A power bank or battery pack is not recommended to power this set.


**RGB IR Remote**

**NOTE**

Use the included RGB IR Remote to Control the RGB Strip Lights via the RGB Board. Point the remote at the board indicated below.



**NOTE**

Press the R, G, and B buttons on the Remote to change the Strip Lights to Red, Green, and Blue to test if they are working.

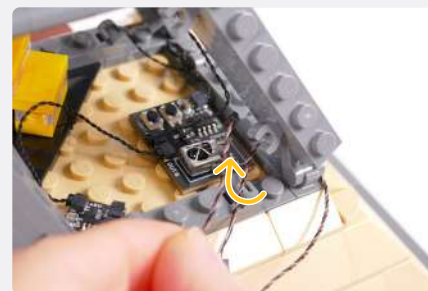
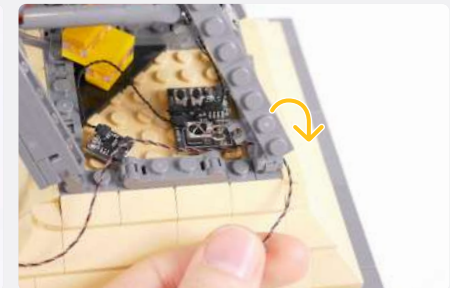


**!** If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing expansion board issues in our troubleshooting section. **i**

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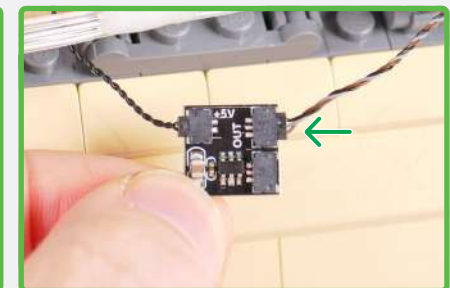


**Light String 15 LED 3Pin - Warm White**



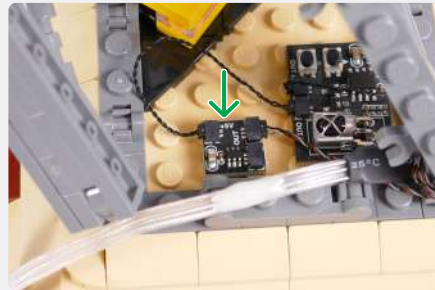
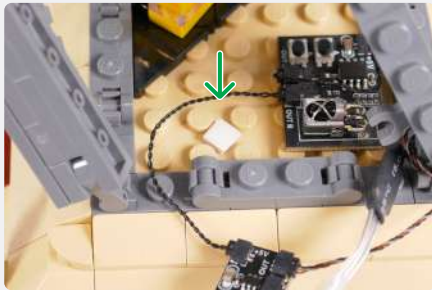
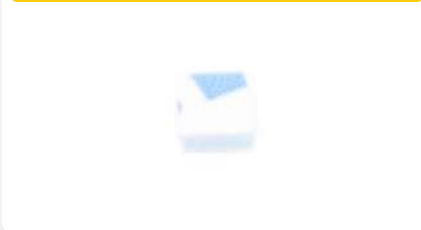
**NOTE**

Connect the Light String 15 LED 3Pin to the "OUT" port of the 3Pin Sparkle Effects Control Board.





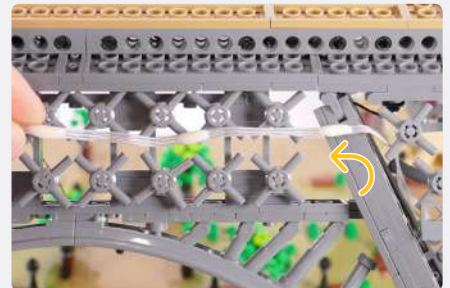
Adhesive Square



88

NOTE

Wrap the Light String up the tower leg. Follow the guide photos as closely as possible.

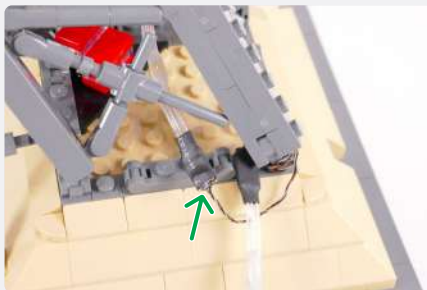
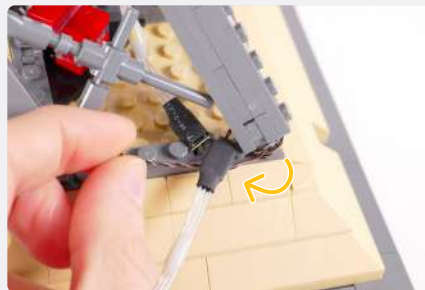




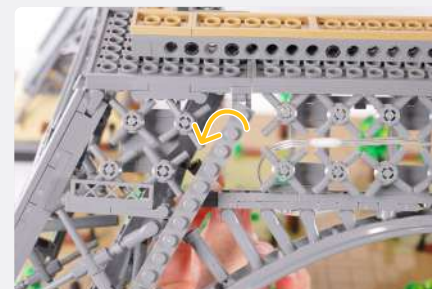
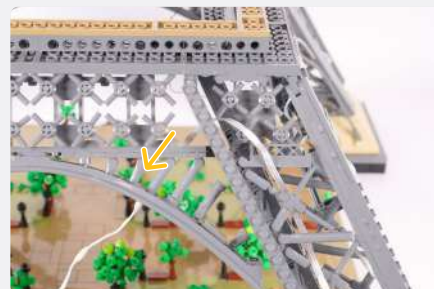
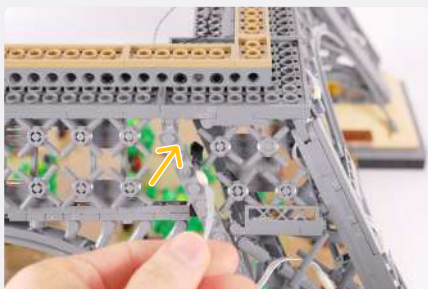
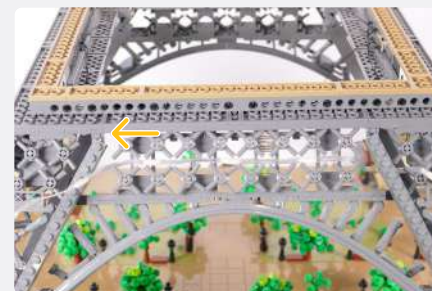
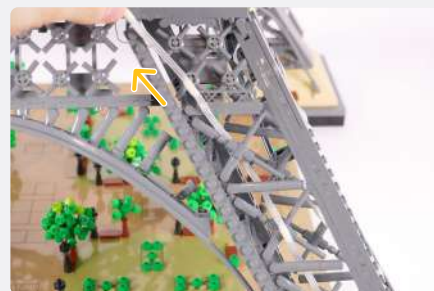
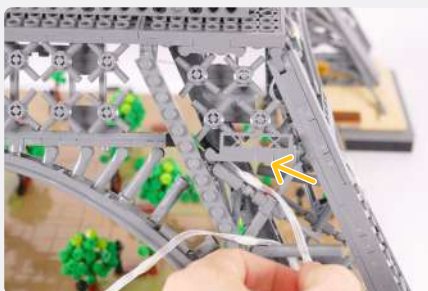
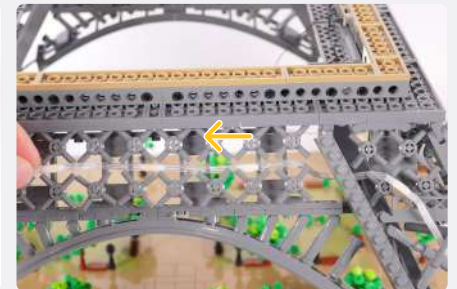
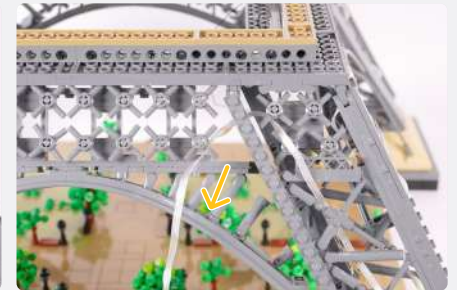
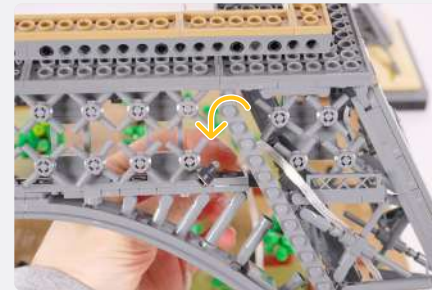
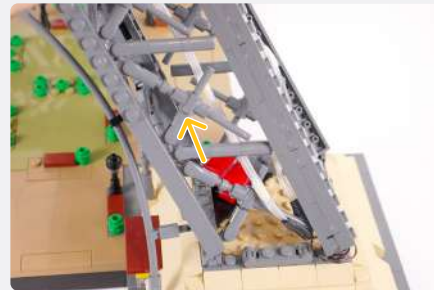
**89**

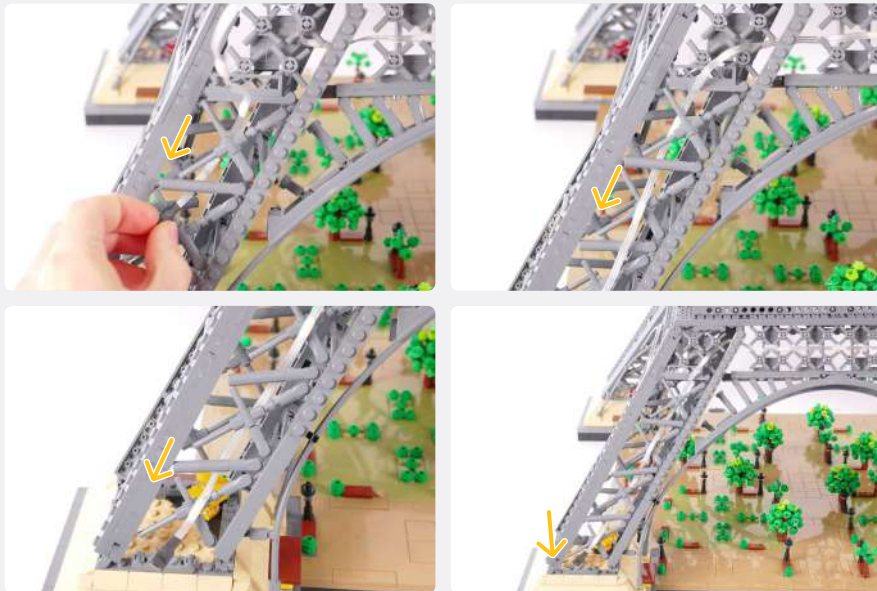


Light String 15 LED 3Pin - Warm White

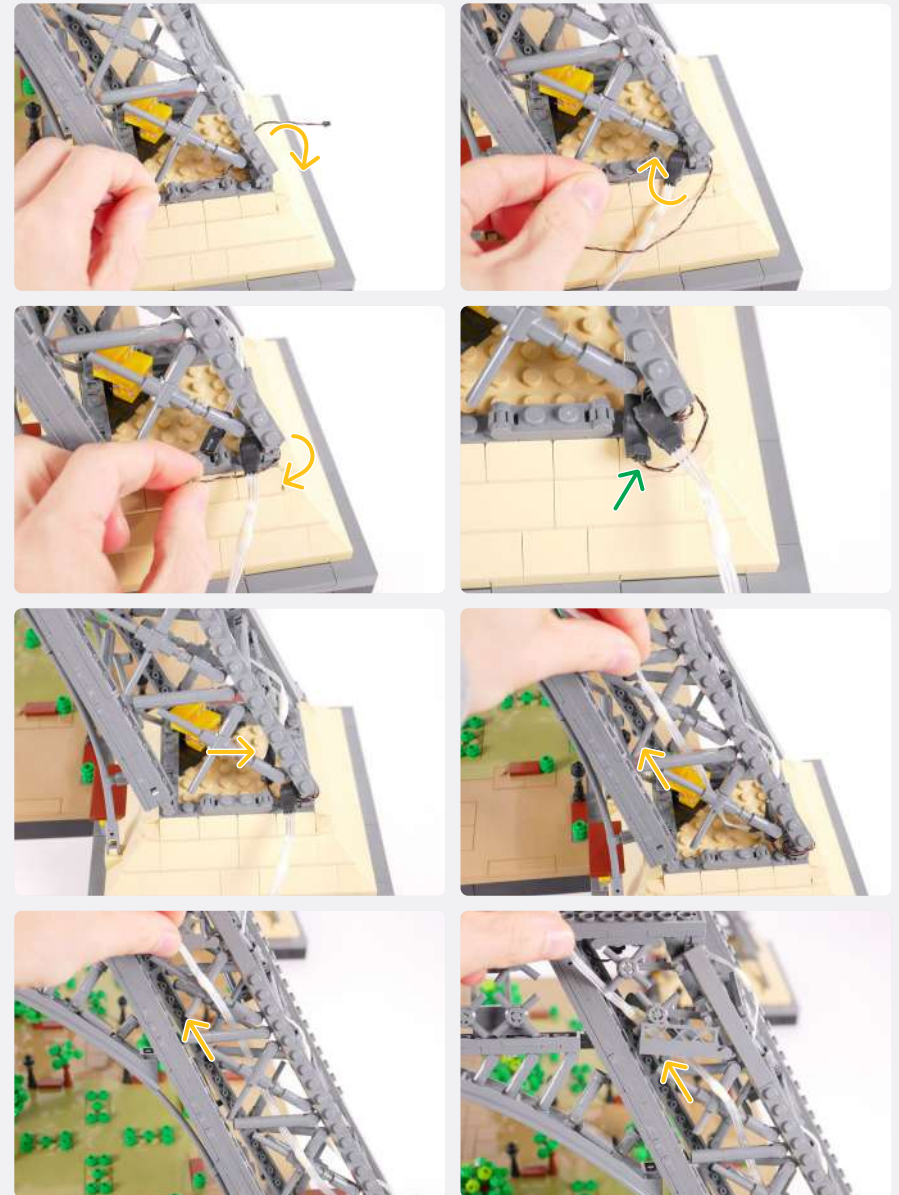


90

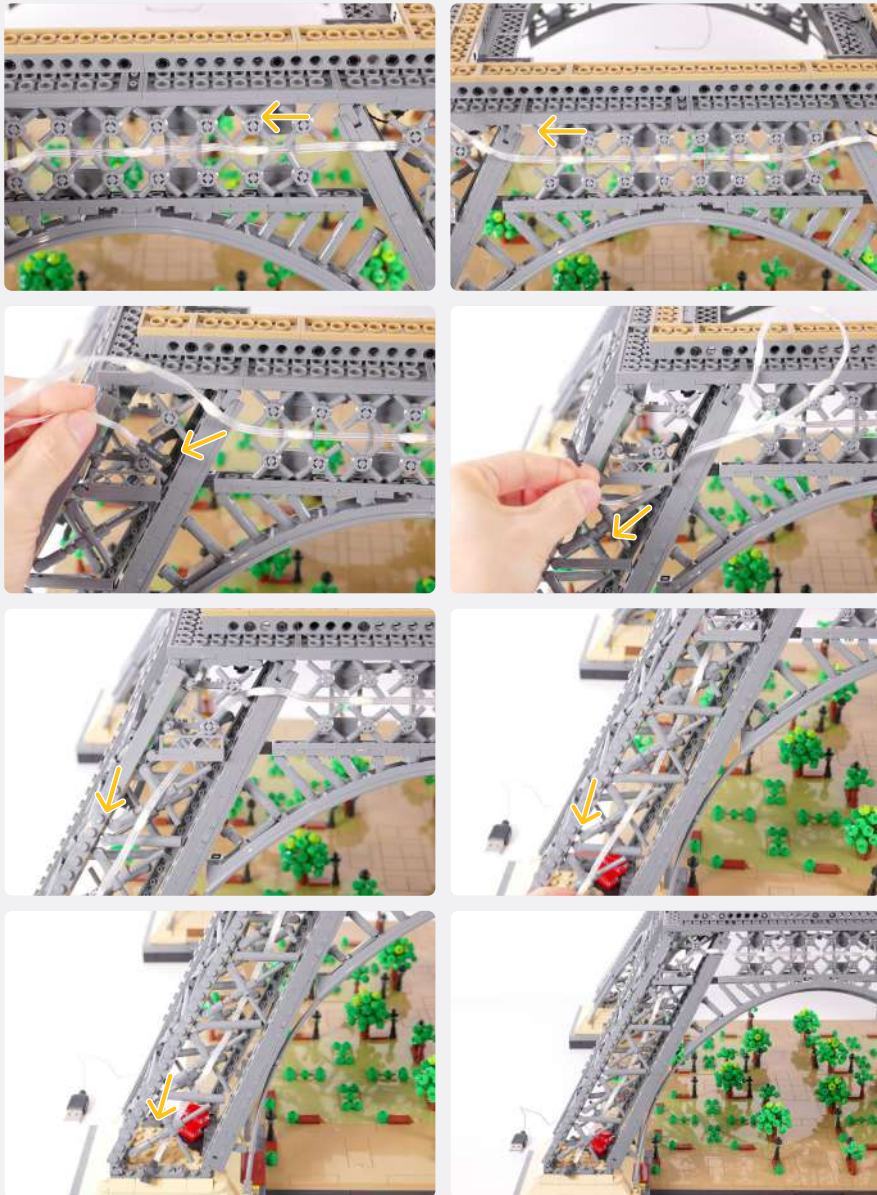




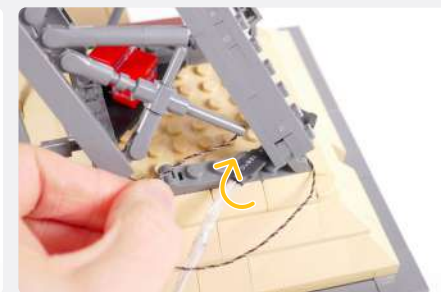
Light String 15 LED 3Pin - Warm White



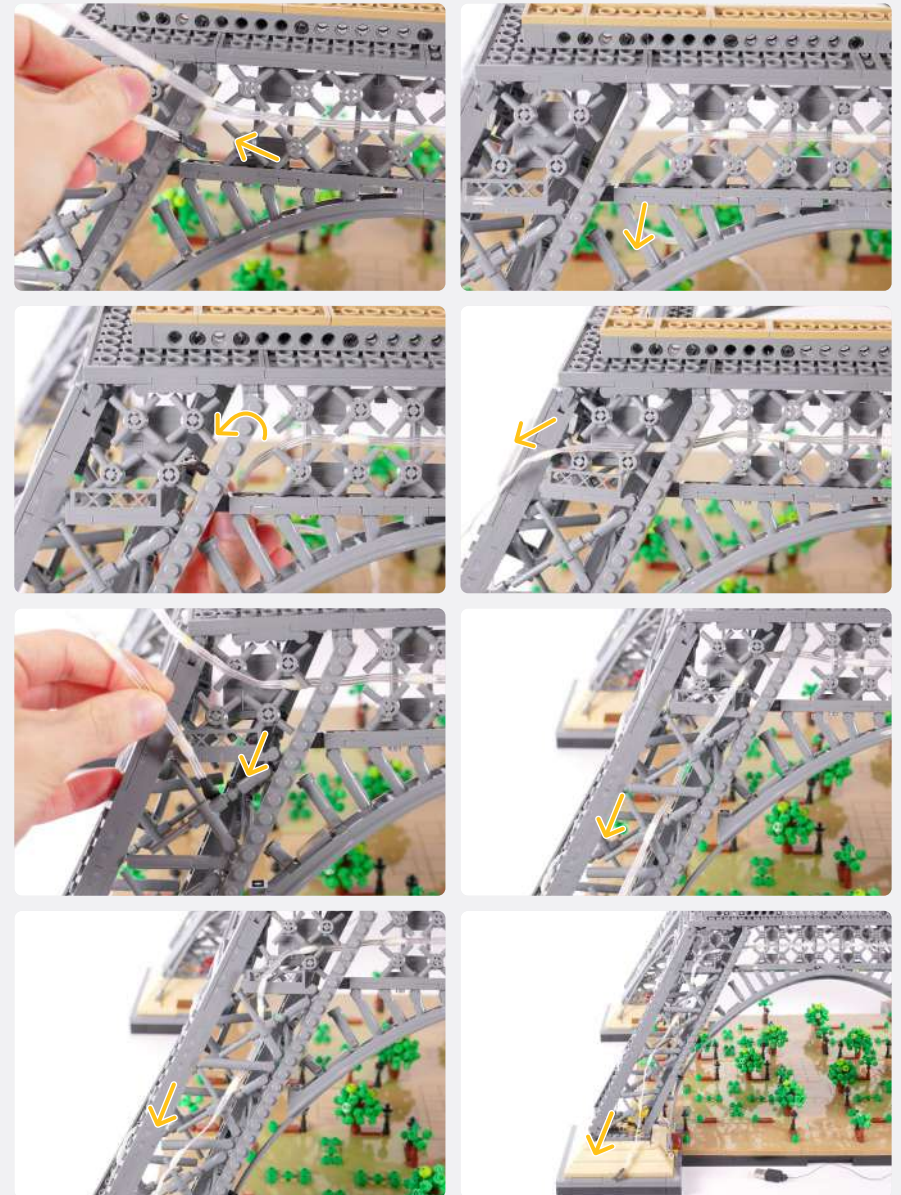
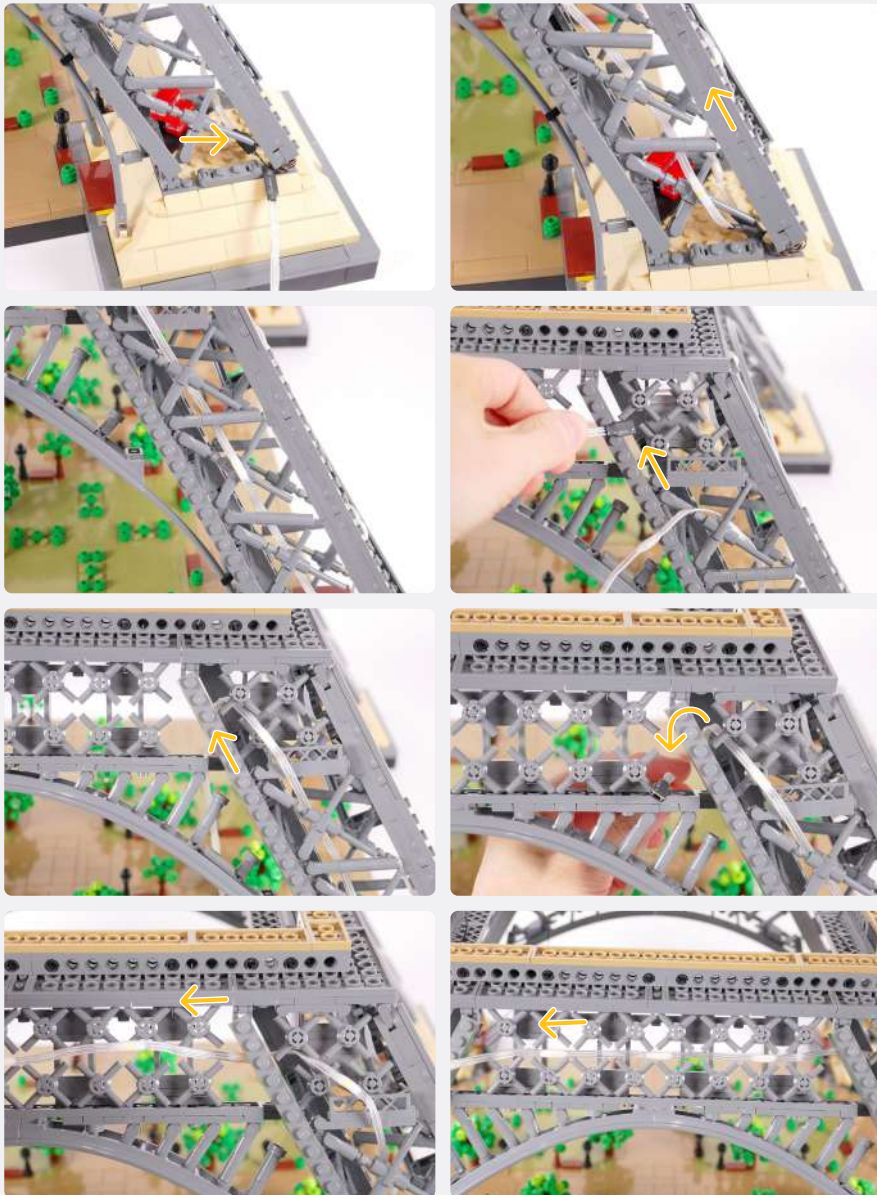
91



**92**







**NOTE**

Leave the end of the String Light loose for now. It will be connected to the second level of the Eiffel Tower when it is completed later.



**NOTE**

Connect to a 5V USB Wall Adaptor (sold separately). A power bank or battery pack is not recommended to power this set.



**NOTE**

Use the RGB Remote to switch between the RGB Mode and Sparkle Mode with the ON and OFF buttons. Point it at the IR Switch Board when pressing.



**NOTE**

After 30 seconds the String Lights flash rapidly for 30 seconds then back to static. Avoid staring at the effect as it may cause discomfort to some.

**NOTE**

You should have these parts left over that were removed from the LEGO set so far.



**!** If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing expansion board issues in our troubleshooting section. **i**

**NOTE**

This concludes Part 1 of the Eiffel Tower Guide. To continue, please click the box to download Part 2.

Click me!

**Part 2**

Links to instructions portal page



## TROUBLESHOOTING

Light My Bricks lighting kits contain individual components that are very small and can be easily damaged if not handled correctly.

To prevent unnecessary damage to components, we highly recommend that the User Guide section, **“Important things to note”** is read carefully. Follow the handling procedures in the User Guide to help prevent faults and damages to your Light My Bricks components.

If you are experiencing issues with your Light My Bricks set, watch our troubleshooting video [here](#) or read on for a list of common causes to help you troubleshoot.

## Troubleshooting

**Firstly, ensure that the batteries have power using a battery charge gauge.**

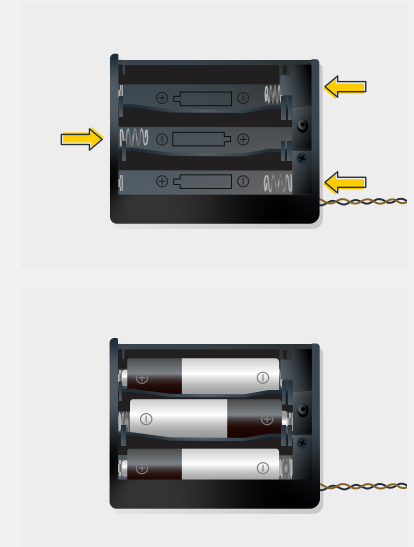
**If the batteries have no power, replace the batteries.**

**If the batteries still have power, check to see if the batteries have been inserted correctly into the battery pack.**

### Check for AA batteries using the AA battery pack

Inside the battery pack are symbols indicating which direction the AA battery should be inserted. The flat side of the battery should be paired with the spring side of the battery pack.

If the batteries have been installed correctly and your kit still isn't operating correctly, the next step is to check the wiring.



# Troubleshooting

## Check Your Wires

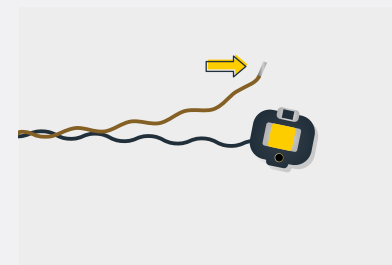
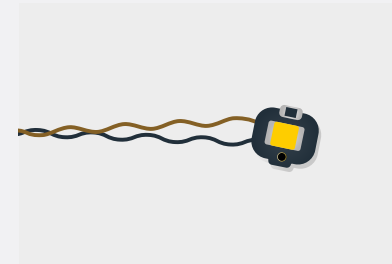
In order for Light My Bricks components to fit in between and underneath LEGO® bricks, the components need to be very small. Due to this nature, Light My Bricks components can be easily damaged when not handled correctly.

Be careful when removing unpacked components out of the packaging and ensure not to forcibly pull at the wires as this can damage the soldering that attach the wires to the LEDs.

If the wiring is detached from the LED itself, the light will not operate.

When connecting lights to your LEGO® set, check that there are no pinched wires underneath or in between bricks and plates.

When the wires are pinched and the exposed wires are touching each other, this can cause a crosswire and the lights to not function correctly.



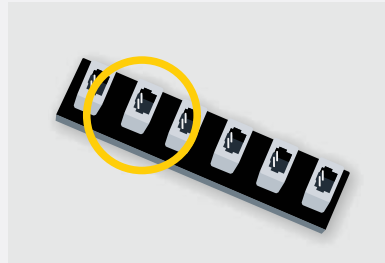
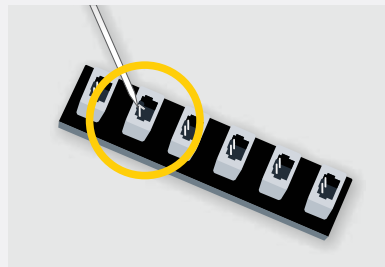
## Troubleshooting

### Check Your Expansion Board Ports / Strip Light Ports / Effects Board Ports

It is important to note that connectors can only be inserted to the expansion board, strip light, or effects board ports in one direction.

Forcibly inserting connectors in the incorrect direction will result in damaging the pins inside each of the ports on your component board.

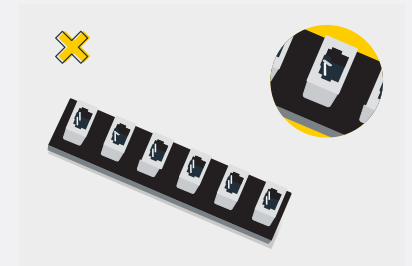
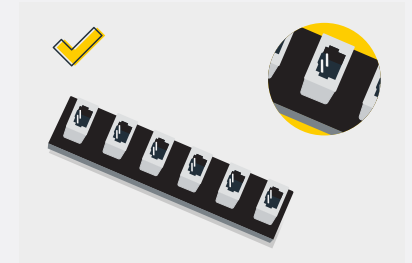
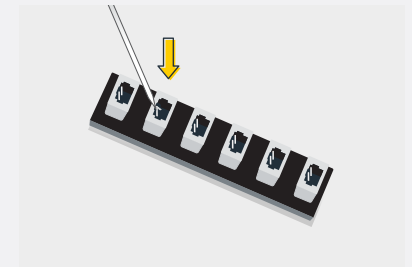
Not only will a light connected to the damaged port not work, but if the pins inside the port are bent to a point they are touching each other, this can result in all other lights in the system to stop working. This is a short circuit.



A short circuit can also result in overheating of the board, cable or batteries. If you suspect a short circuit, **DISCONNECT POWER IMMEDIATELY**. Batteries can fail, catch fire, or even explode if left connected to a short circuit for too long.

If you suspect you have a faulty component due to a bent pin, try the following steps:

If you look carefully inside each of the ports, each port contains 2 small pins that should be straight. You will be able to identify a faulty port if it has any bent pins.





## CONTACT US

If you have an enquiry regarding the online shop, our products or a general enquiry please refer to our Frequently Asked Questions webpage here.

Alternatively, you can contact our Customer Services team by visiting our online support portal here.

[support.lightmybricks.com](https://support.lightmybricks.com)

We thank you for purchasing this product and hope you enjoy!



[lightmybricks.com](https://lightmybricks.com)