



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



**LEGO® NINJAGO CITY MARKETS #71799**

**LIGHT KIT**

**INSTALLATION GUIDE**

# Light My Bricks



## LEGO® NINJAGO CITY MARKETS 71799 INSTALLATION GUIDE

Hi There!

We're here to help you get started on the LEGO®  
NINJAGO City Markets 71799 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:

### Individual Bags



- 11 x White 15cm Micro Bit Light \*
- 1 x Blue 15cm Micro Bit Light
- 8 x Cool White 15cm Bit Light
- 5 x Cool White 30cm Bit Light
- 2 x White 15cm Bit Light
- 1 x Yellow 15cm Bit Light
- 1 x Pink 30cm Bit Light
- 2 x Purple 30cm Bit Light
- 1 x Warm White 15cm Large Bit Light
- 1 x Cool White 30cm Large Bit Light
- 1 x Blue 30cm Large Bit Light
- 1 x Orange 30cm Large Bit Light
- 1 x Flashing Red 30cm Bit Light
- 2 x Red to Blue 15cm Bit Light
- 1 x Green to Orange 15cm Bit Light
- 1 x Pink Strip Light
- 1 x Blue Strip Light
- 6 x White Strip Light

### USB Power Cable + Brick



- 1x USB Power Cable  
(Power Source not Included)
- 1x Power Brick  
(Requires 2x CR 2025 Batteries)

### Connecting Cables



- 5 x 5cm Connecting Cable
- 7 x 15cm Connecting Cable
- 10 x 30cm Connecting Cable \*
- 1 x 50cm Connecting Cable

### Mixed Components 1



- 1 x 2-Port Expansion Board
- 6 x 6-Port Expansion Board
- 2 x 8-Port Expansion Board

### Mixed Components 2



- 6 x Micro 4-Port Expansion Board \*
- 1 x Flicker Effects Board
- 10 x Adhesive Square

### Mixed Components 3



- 4 x Arm Skeleton, Bent with Clips (Horizontal Grip) - Black
- 8 x Tile, Modified 1x1 with Open O Clip - Black
- 1x Brick, Modified 1x1 with Stud on Side - Black

\* Indicates components which include spares



## PACKAGE CONTENTS:

### Mixed Components 4



6 x Dish 2x2 Inverted (Radar) - Black

### Mixed Components 5



20 x Round Plate 1x1 w/ Open Stud - Black \*  
1 x Round Plate 1x1 w/ Open Stud - Trans Orange  
1 x Plate Round 1x1 - Trans Red  
1 x Plate Round 1x1 - Trans Yellow

### Mixed Components 6



2 x Plate, Modified 1x2 with Bar Handle on End - Black  
1 x Plate, Modified 1x2 with Bar Handle on Side Closed Ends - Black  
5 x Plate 1x2 - Black  
11 x Plate, Round 1x1 with Bar Handle - Black

### Mixed Components 7

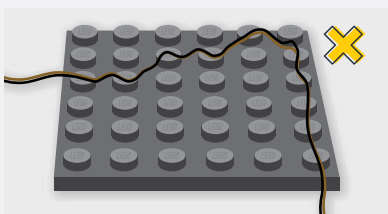
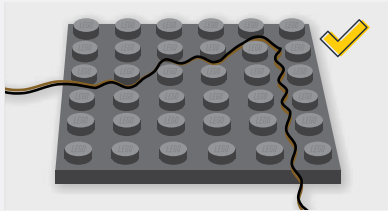


6 x Plate 1x6 - Dark Grey  
1 x Plate 2x4 - Black

## Contents

Before You Begin	6
Blueprint	11
Instructions	13
Final Product	102
Troubleshooting	103
Contact	107

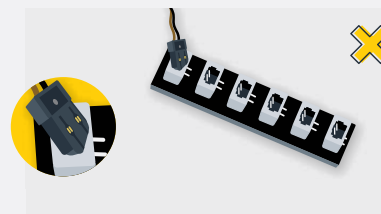
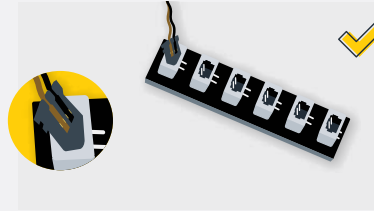
## Before You Begin



### 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.*

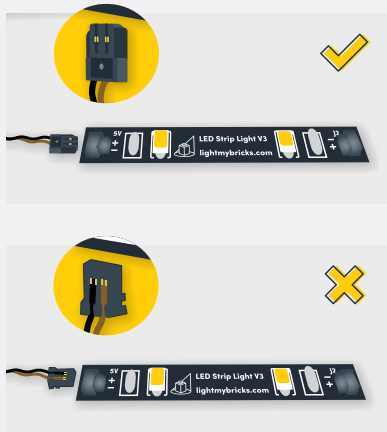


### Connecting Cable Connectors To Expansion Boards

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.

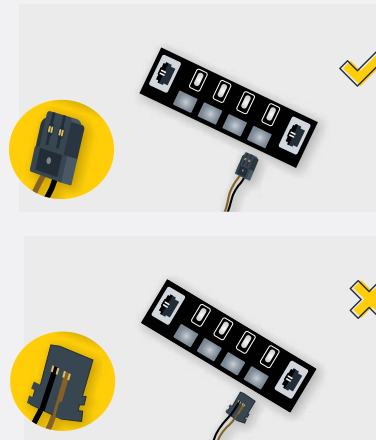
*Incorrectly inserting the connector can result in bent pins inside the port or possible overheating of the expansion board when connected.*

## 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.



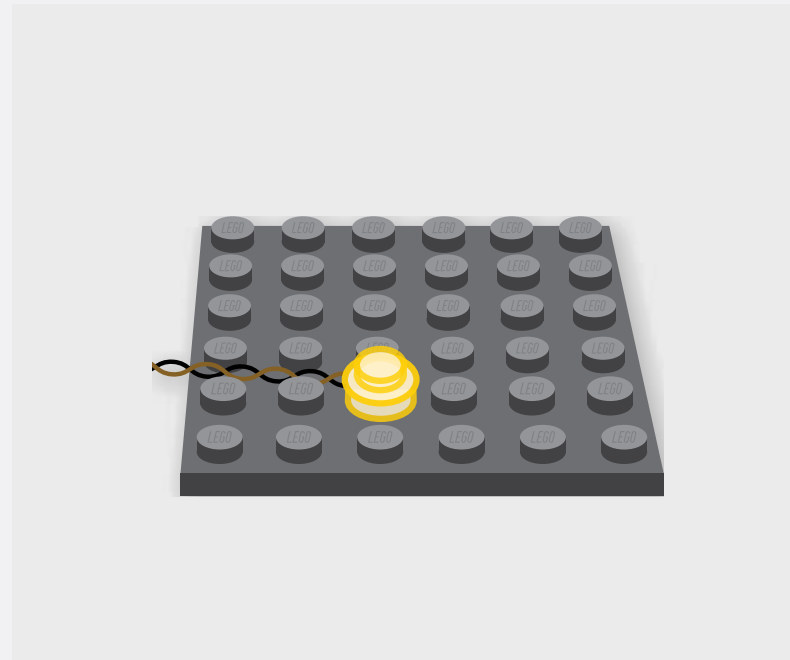
### Connecting Micro Cable Connectors To Micro Expansion Board Ports

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.



## 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.

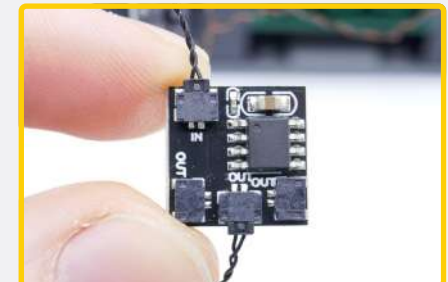
## Disconnect Note


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**

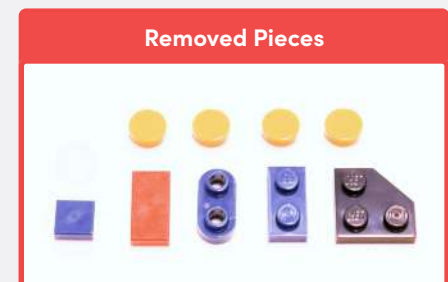
Connect to a 5V USB Power Bank, 5V USB Wall Adaptor, or USB to AA Battery Pack (sold separately)





**NOTE**

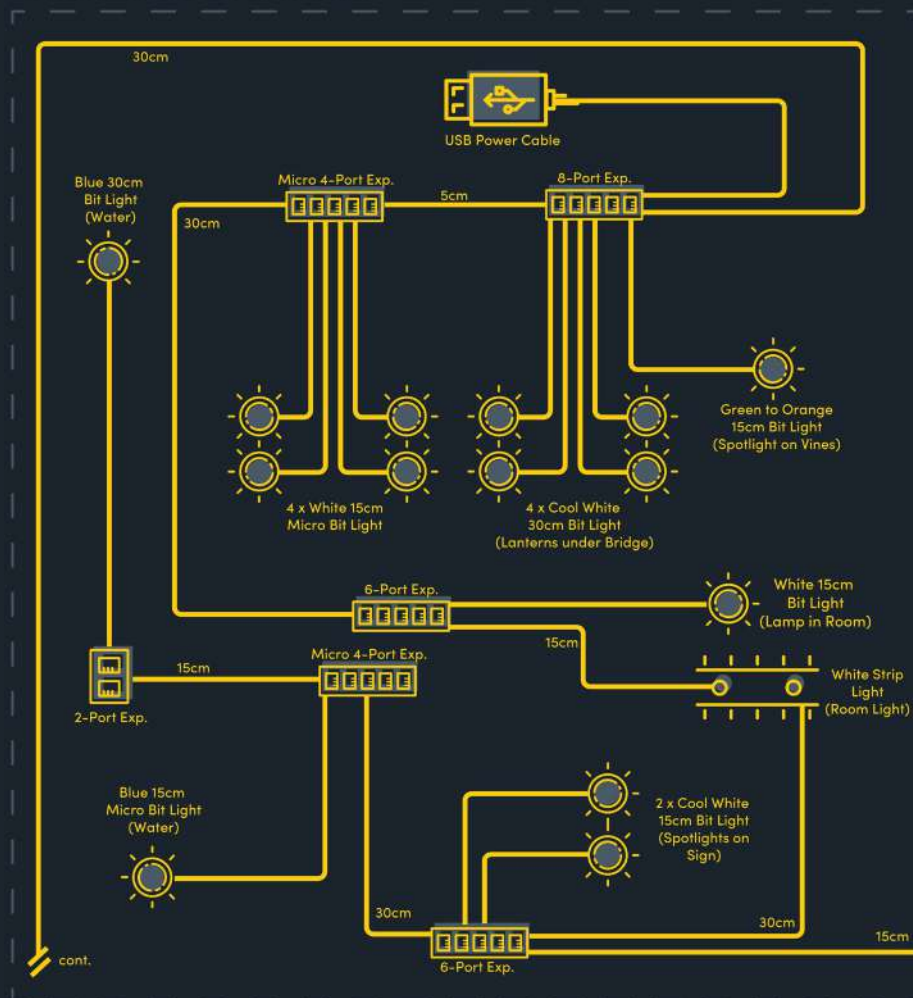
You should have these parts left over that were removed from the LEGO set



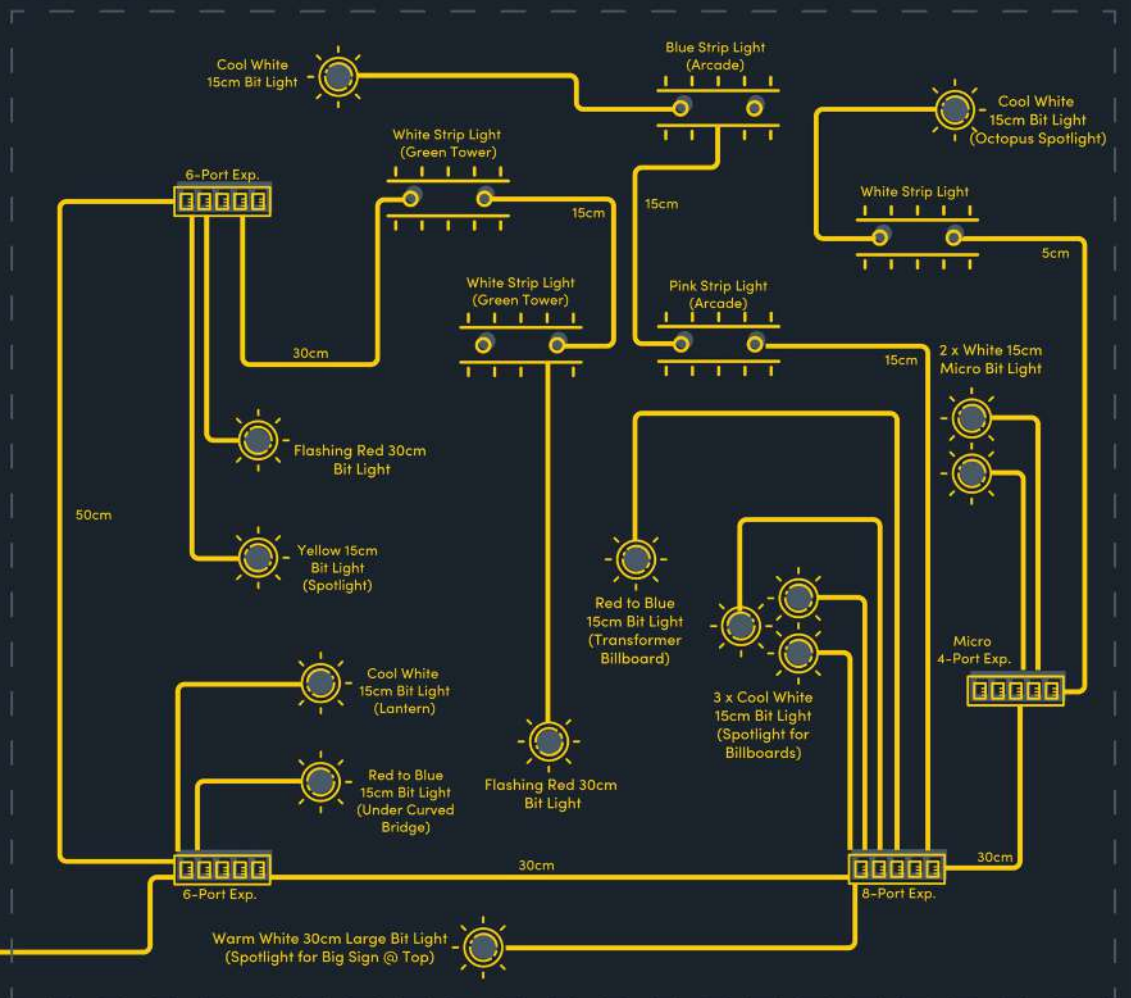


# BLUEPRINT

## Bottom Middle/Bottom Right



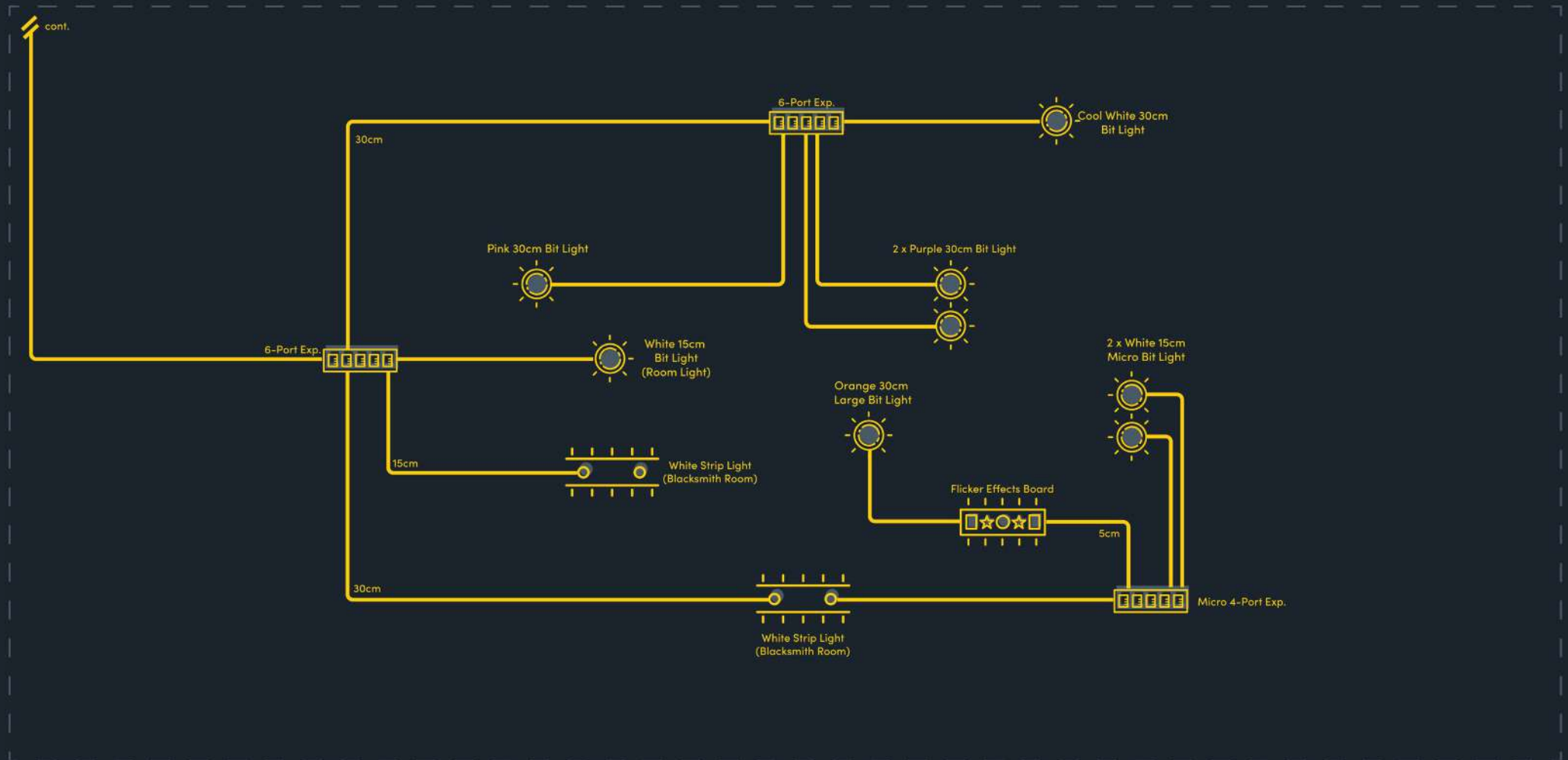
## Upper Floor





# BLUEPRINT

Front Left





## INSTRUCTIONS

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



**2**

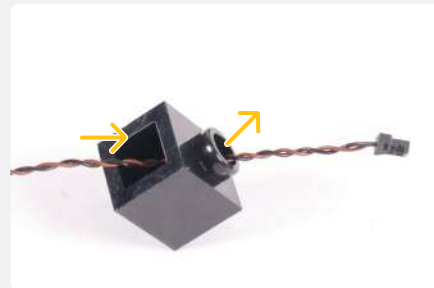
Blue 30cm Large Bit Light



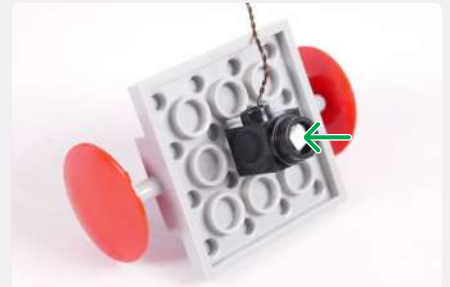
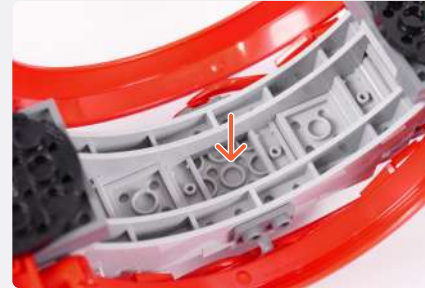
Plate, Round 1x1 with Open Stud - Black

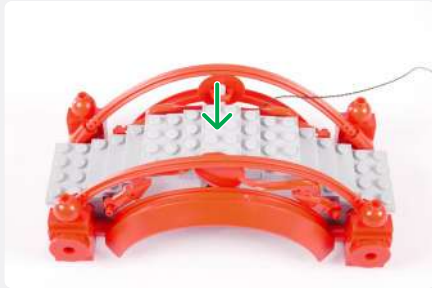
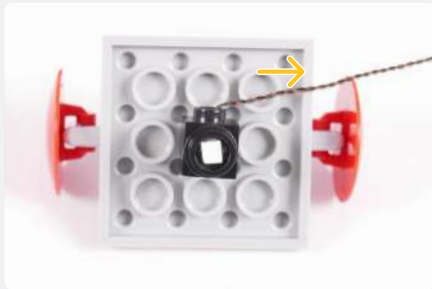


Brick, Modified 1x1 with Stud on Side - Black



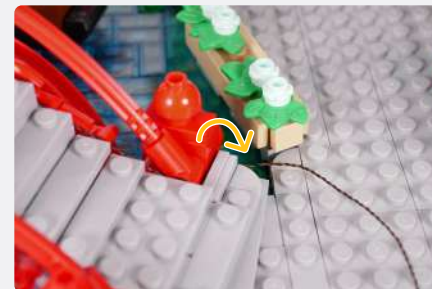
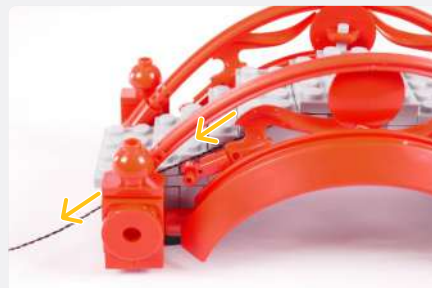
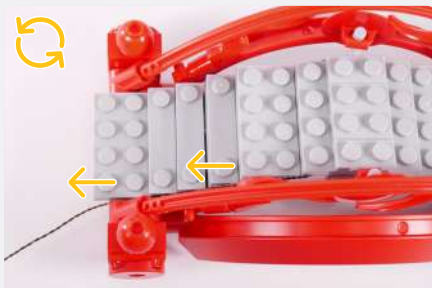
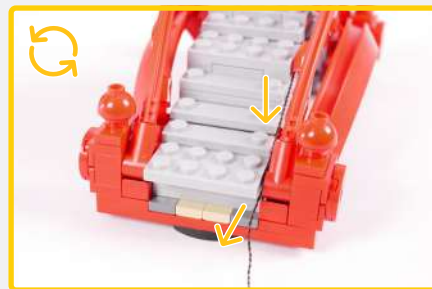
**3**





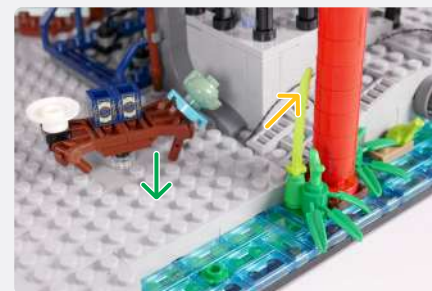
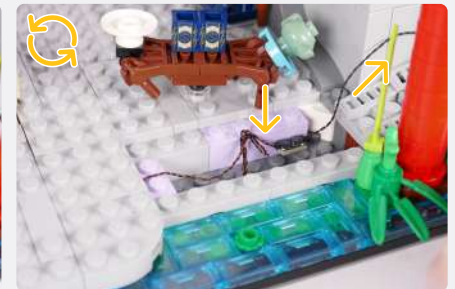
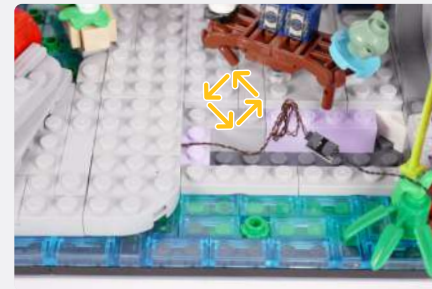
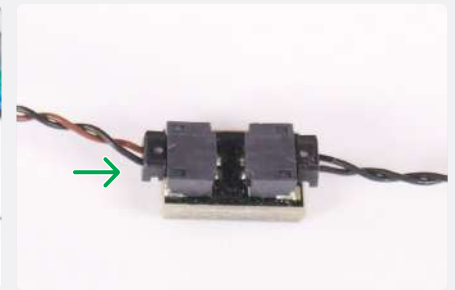
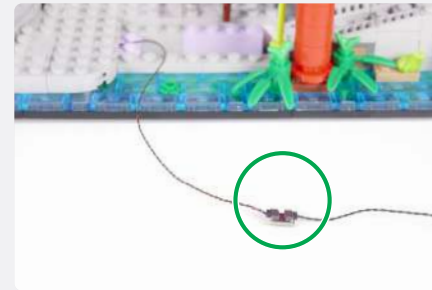
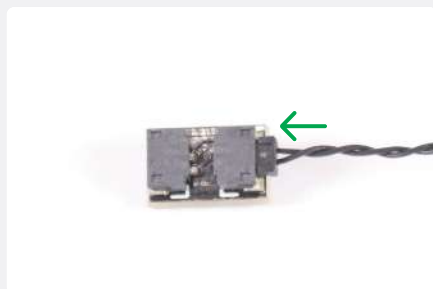
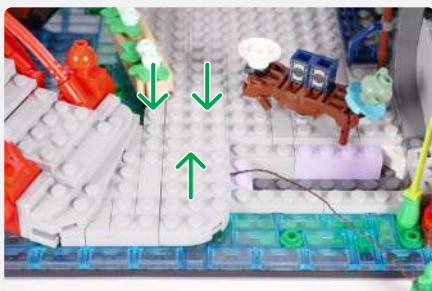
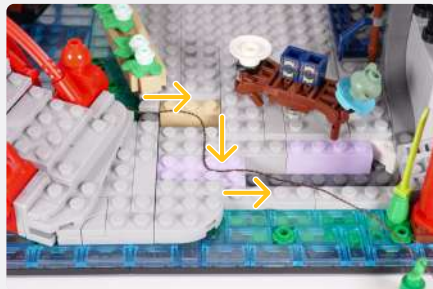
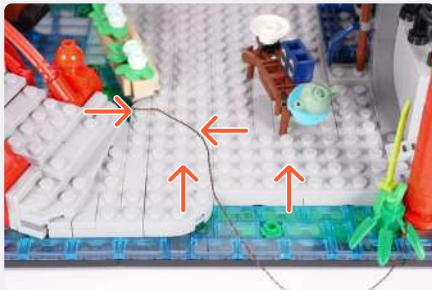
**NOTE**

Secure the cable in position by pulling the cable downwards in between the following gap

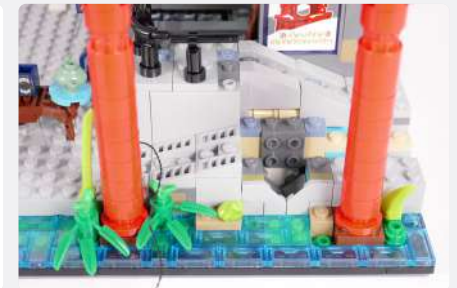


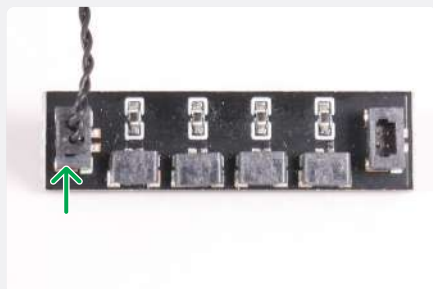
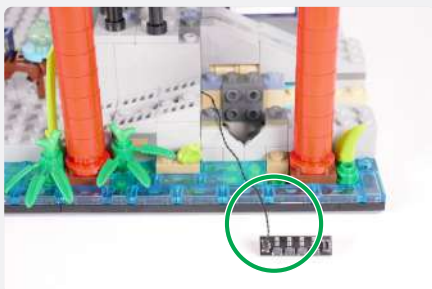
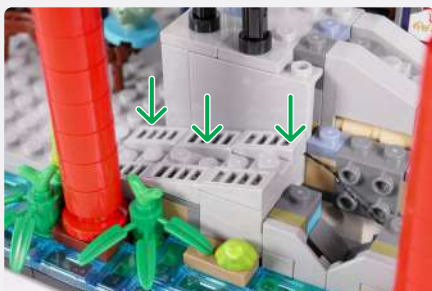
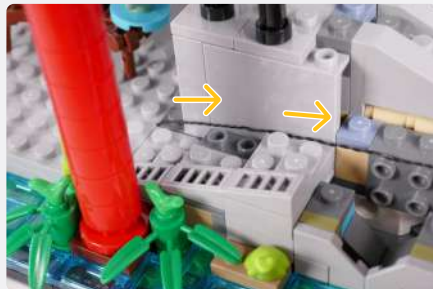


5

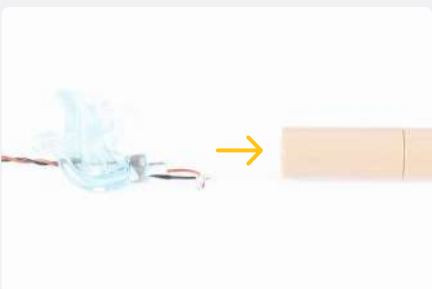
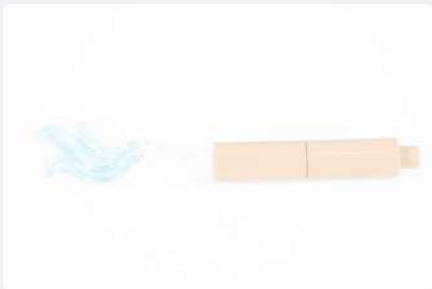


5





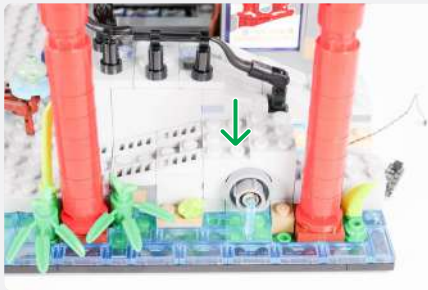
**6**



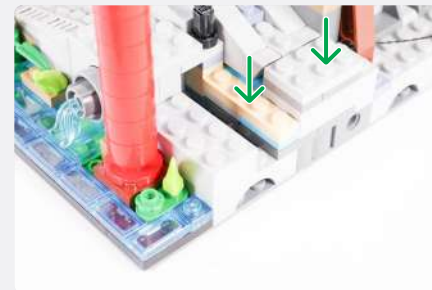
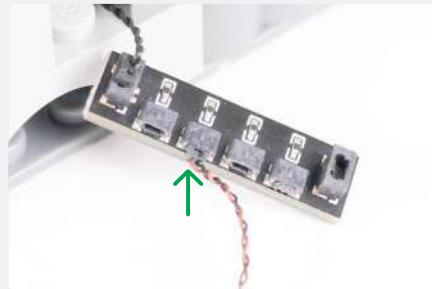
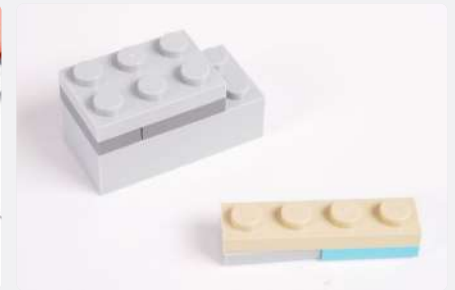
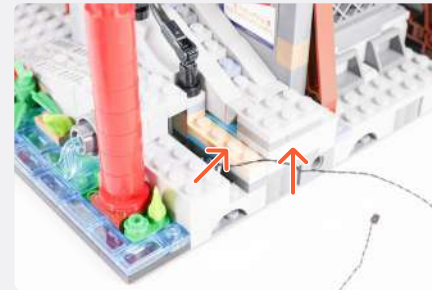


**7**

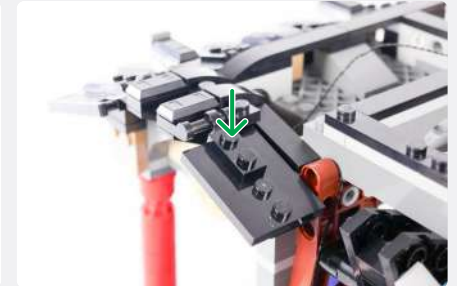
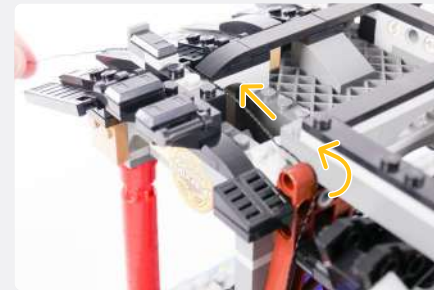




**8**

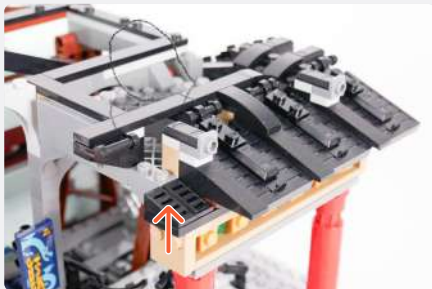
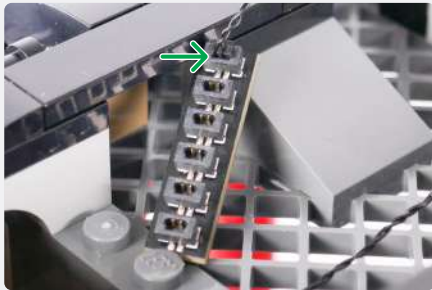


9



**10**

**6-Port Expansion Board**

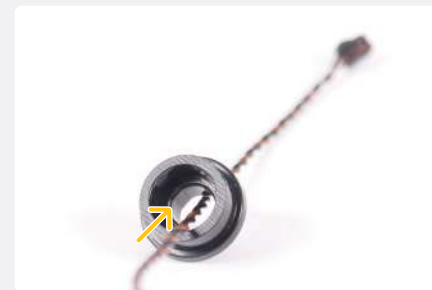


**11**

**Cool White 15cm Bit Light**



**Plate, Round 1x1 with Open Stud - Black**



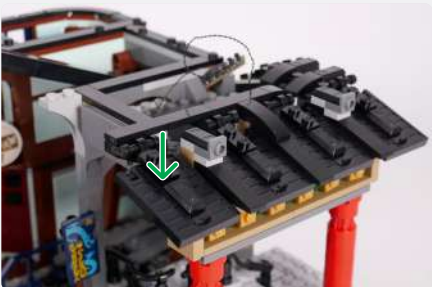
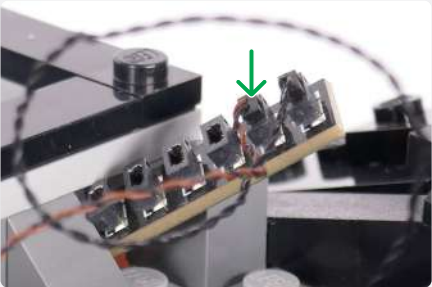
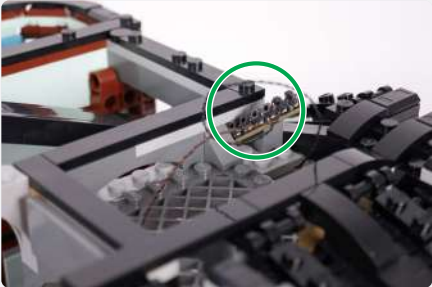
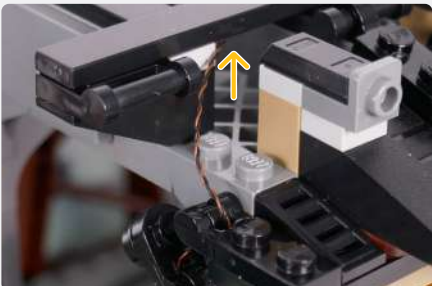
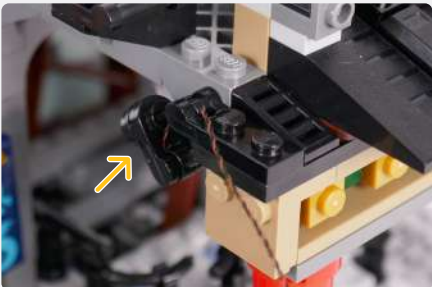
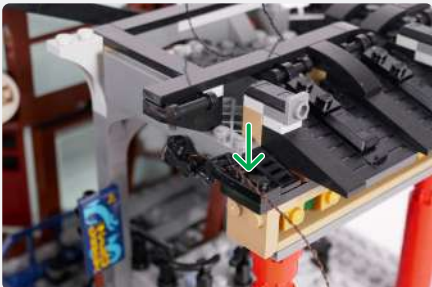
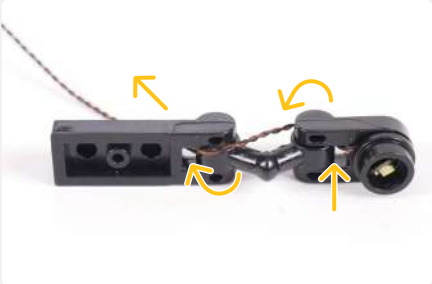
**Plate, Round 1x1 with Bar Handle - Black**



**Plate, Modified 1x2 with Bar Handle on End - Black**



**Arm Skeleton, Bent with Clips  
(Horizontal Grip) - Black**



**12**



13



Cool White 15cm Bit Light



Plate, Round 1x1 with Open Stud - Black



2x Plate, Round 1x1 with Bar Handle - Black

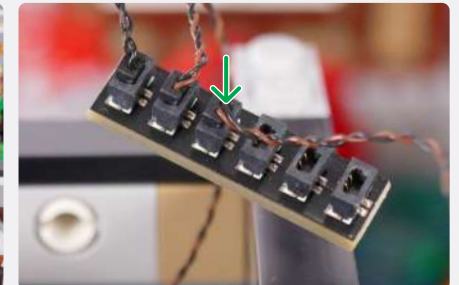
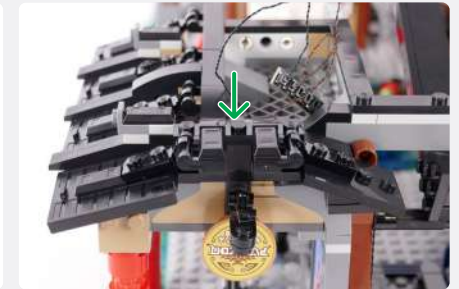


Arm Skeleton, Bent with Clips (Horizontal Grip) - Black

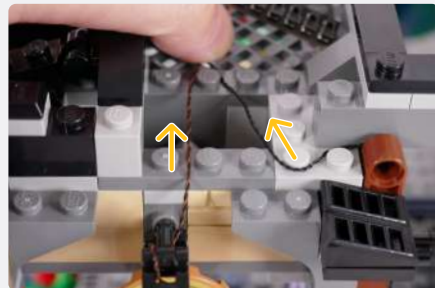
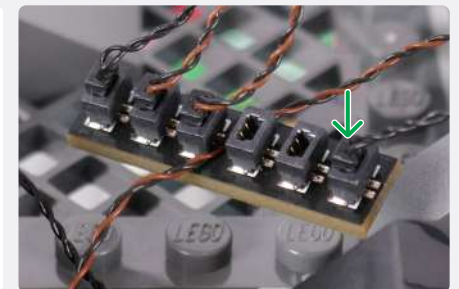


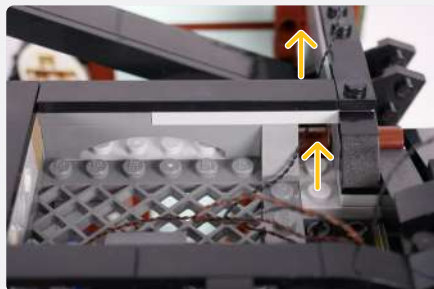
Plate, Round 1x1 with Open Stud - Black





14



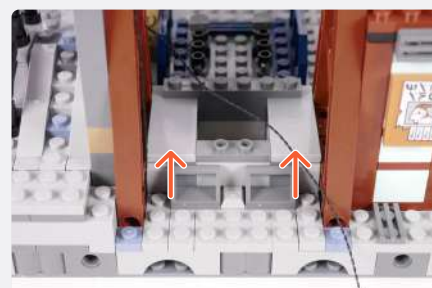
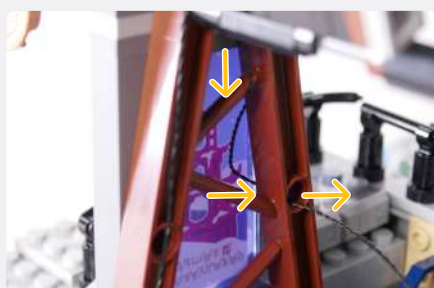
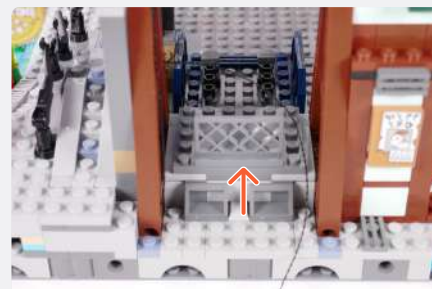
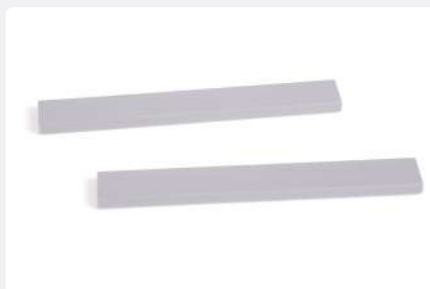
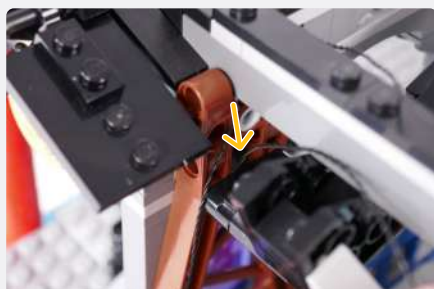
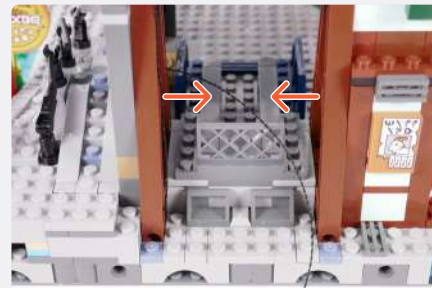


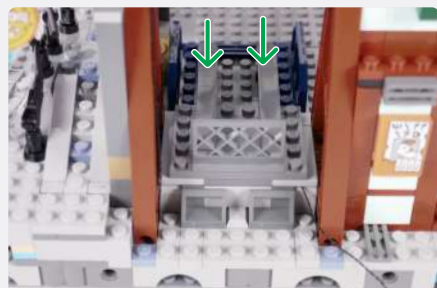
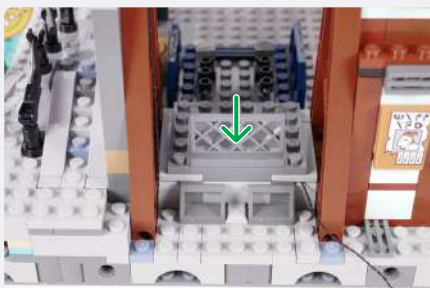
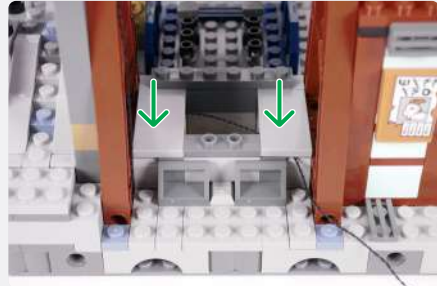
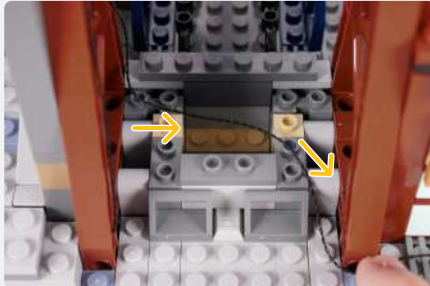
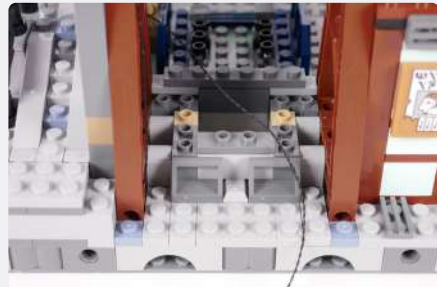
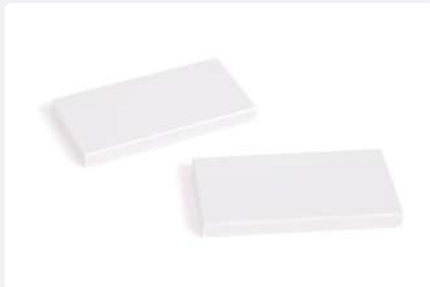
**NOTE**

If you have trouble threading the cable through the hole, remove the sign, thread the cable, then replace it.

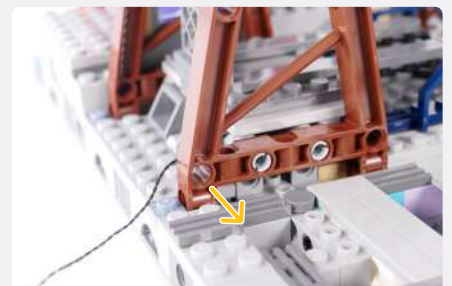


**15**

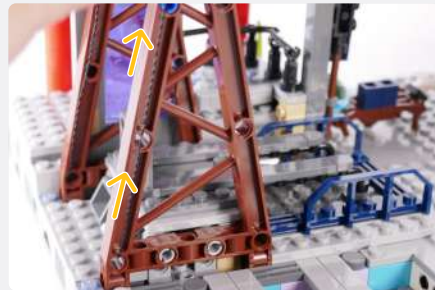
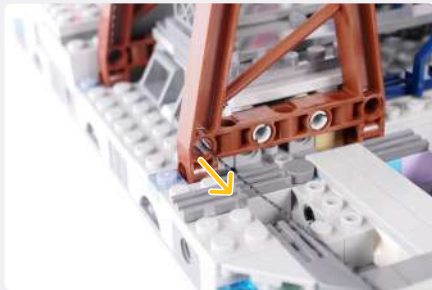




**16**



**17**



**White Strip Light**



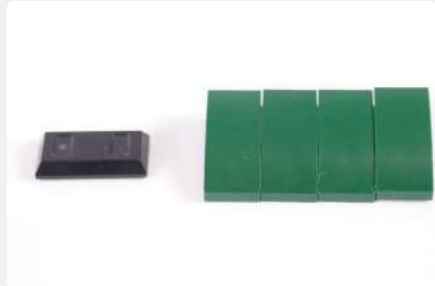
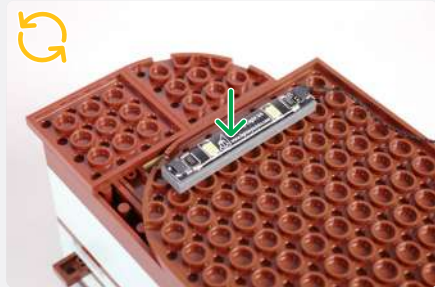
**Plate 1x6 - Dark Bluish Gray**



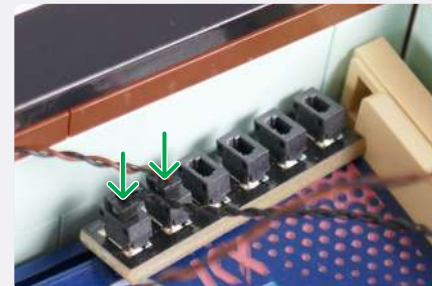
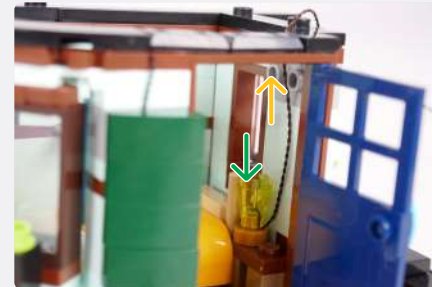
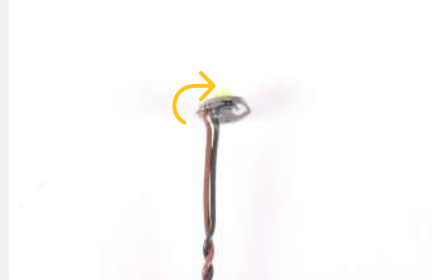
**15cm Connecting Cable**

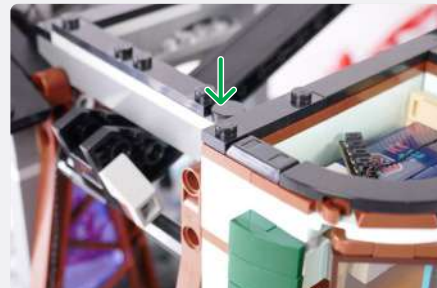
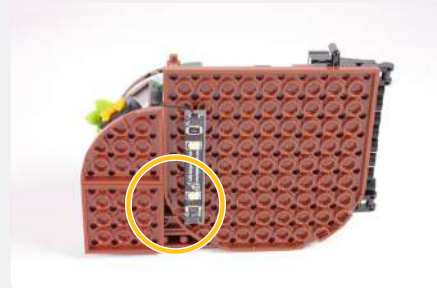


**18**



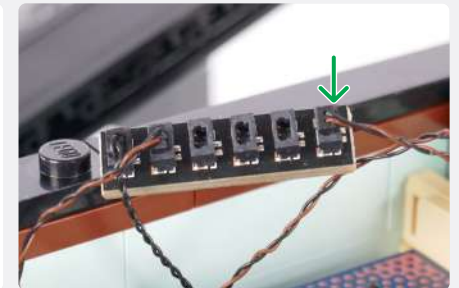
18





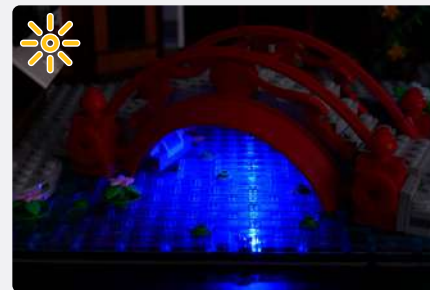
19

USB Power Cable



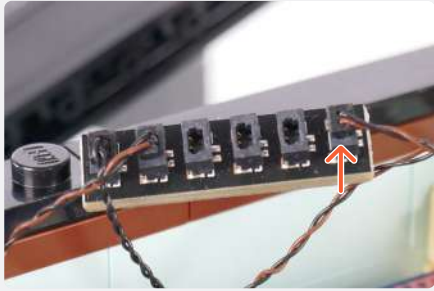
NOTE

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





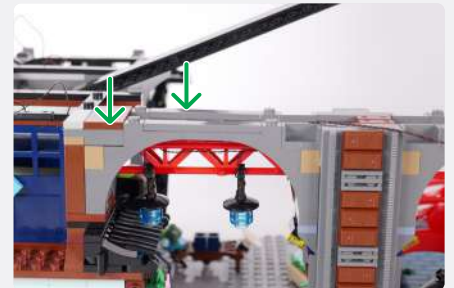
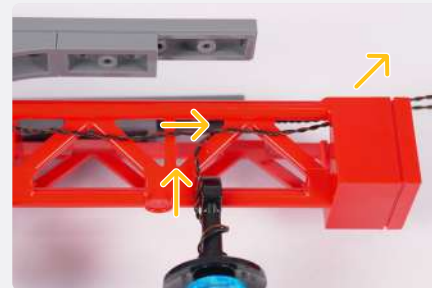
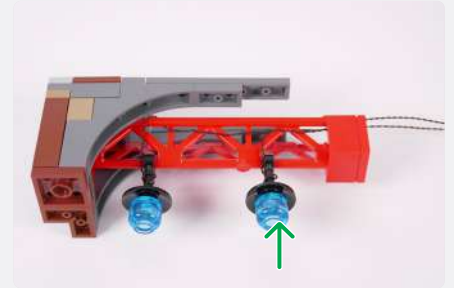
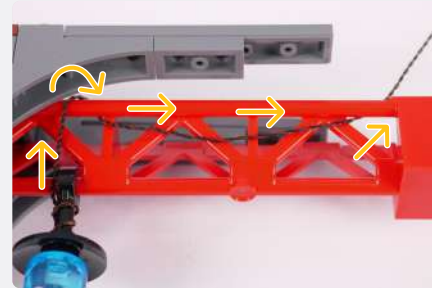
! If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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



20

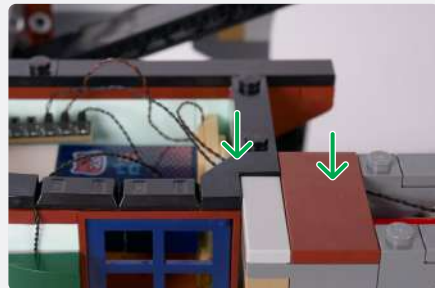
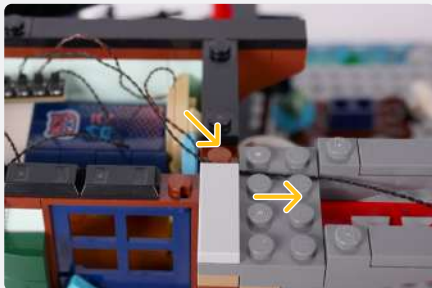
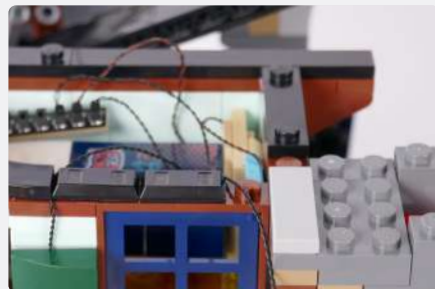
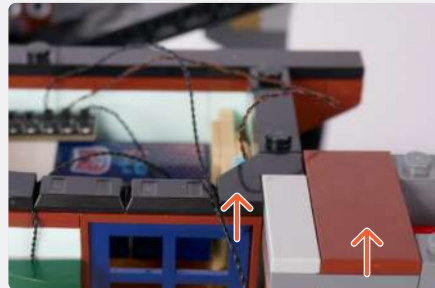
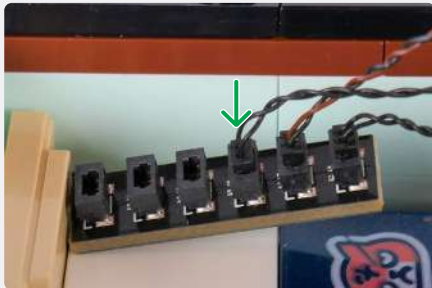
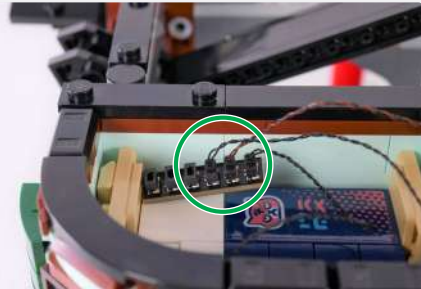


**21**

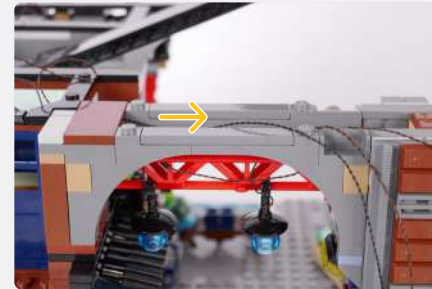


**22**

30cm Connecting Cable

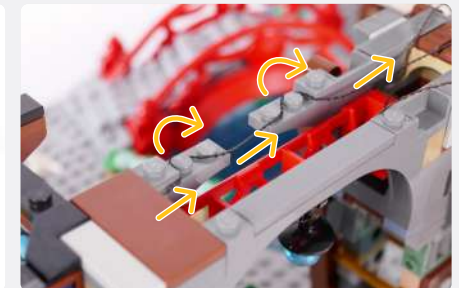
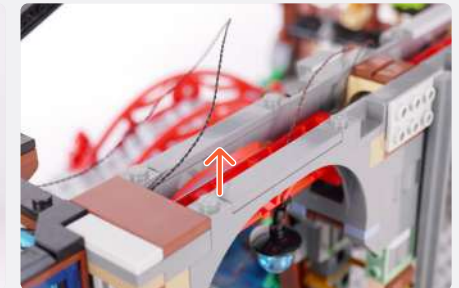


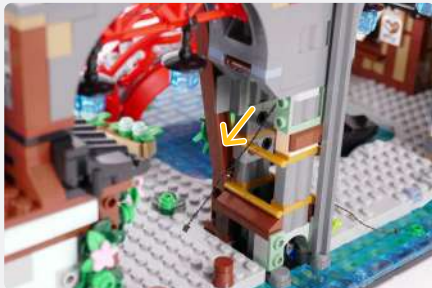
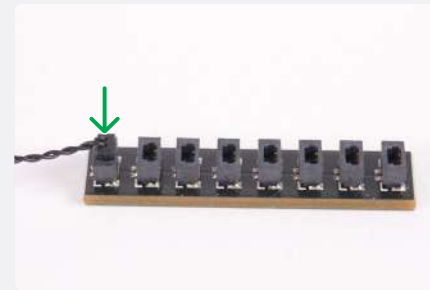
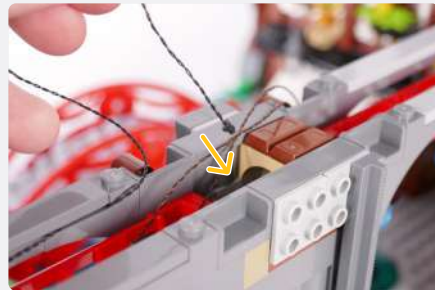
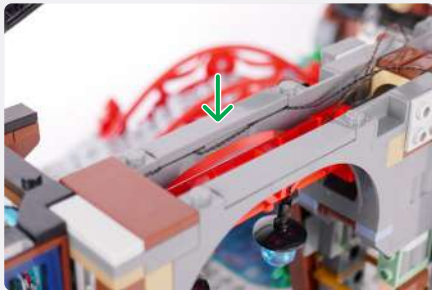
**23**



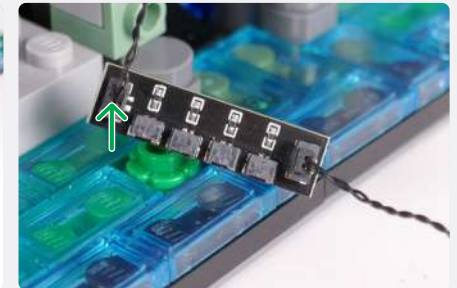
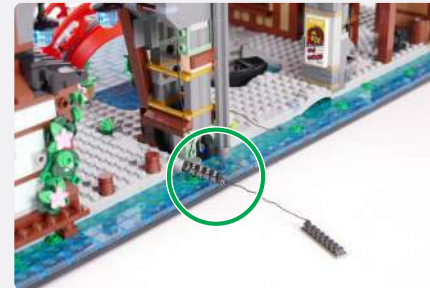


**24**

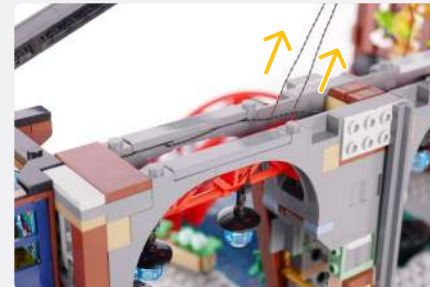
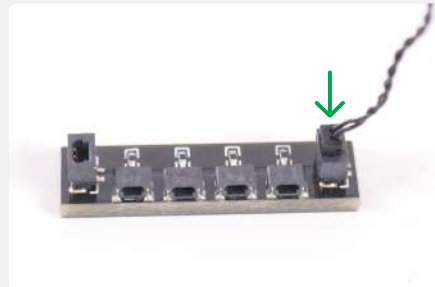




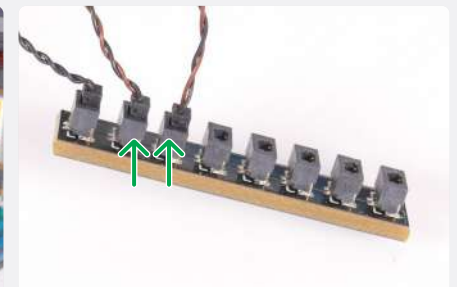
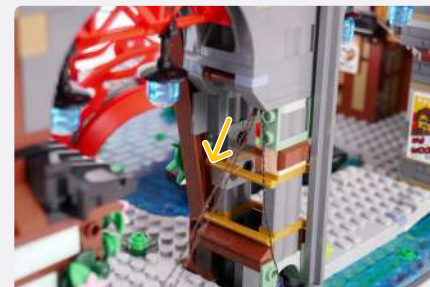
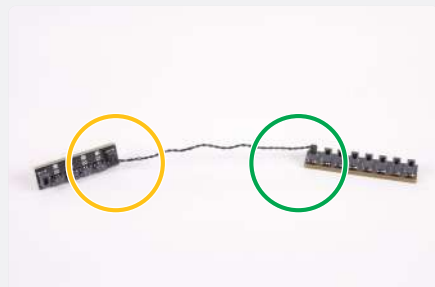
5cm Connecting Cable



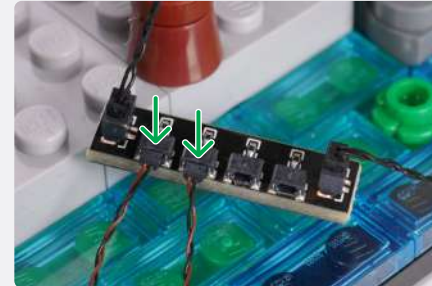
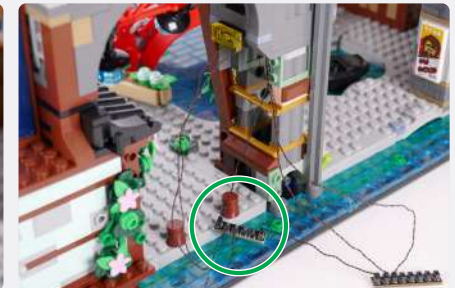
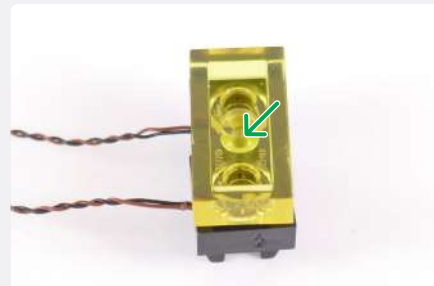
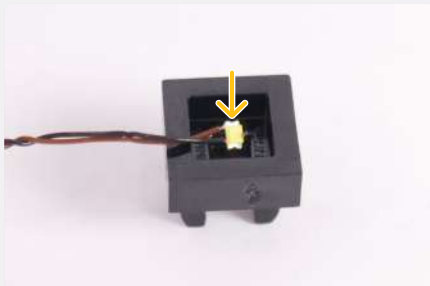
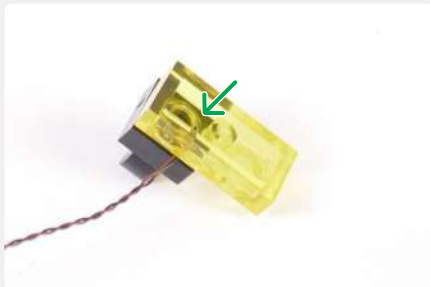
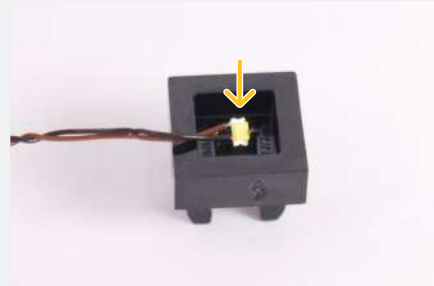
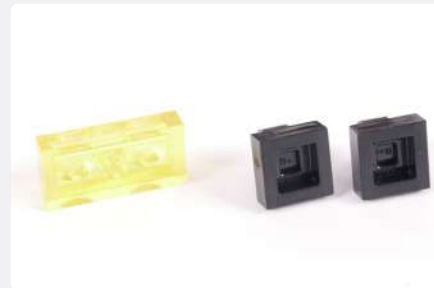
4-Port Micro Expansion Board



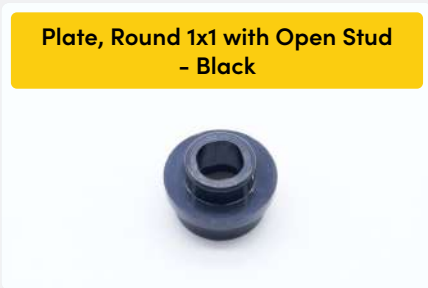
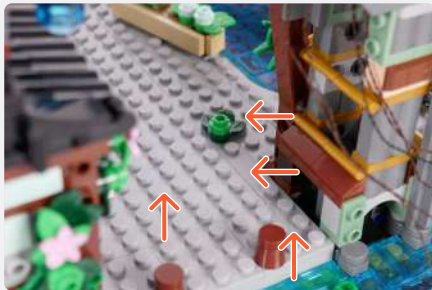
8-Port Expansion Board



25

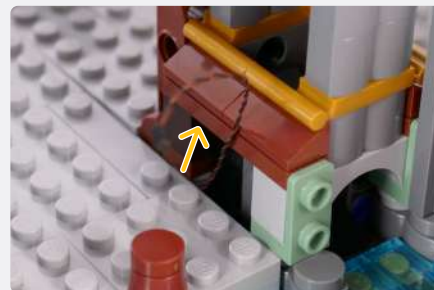
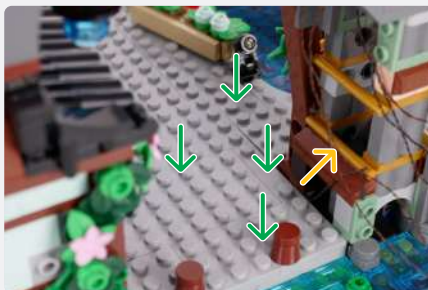
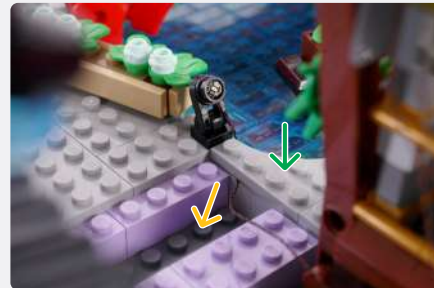
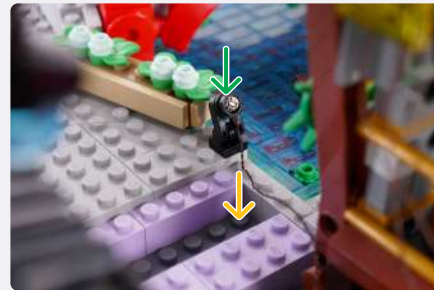


26



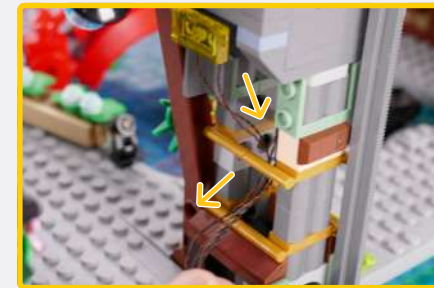
26





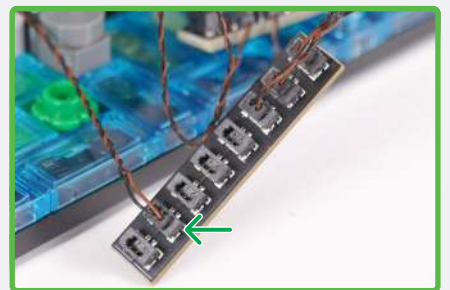
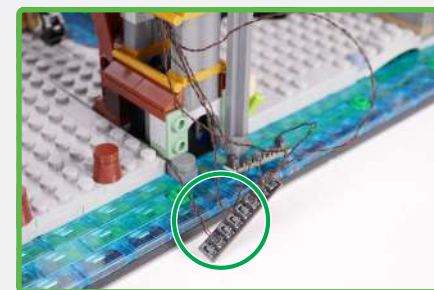
**NOTE**

Run the boards and cables behind the gold bar pieces.



**NOTE**

Connect the Orange to Green Bit light to the 8-Port Expansion Board



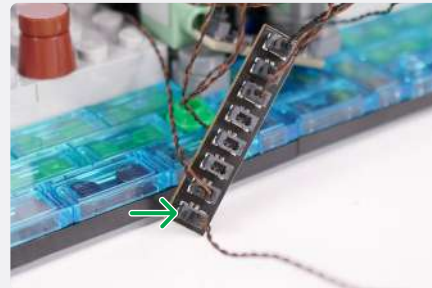
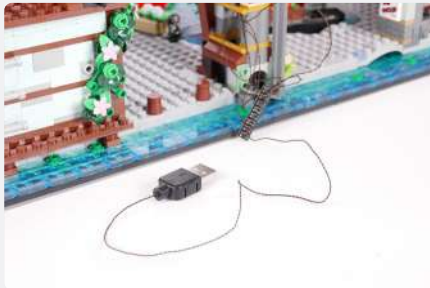


27



NOTE

Connect the USB that was previously disconnected



28



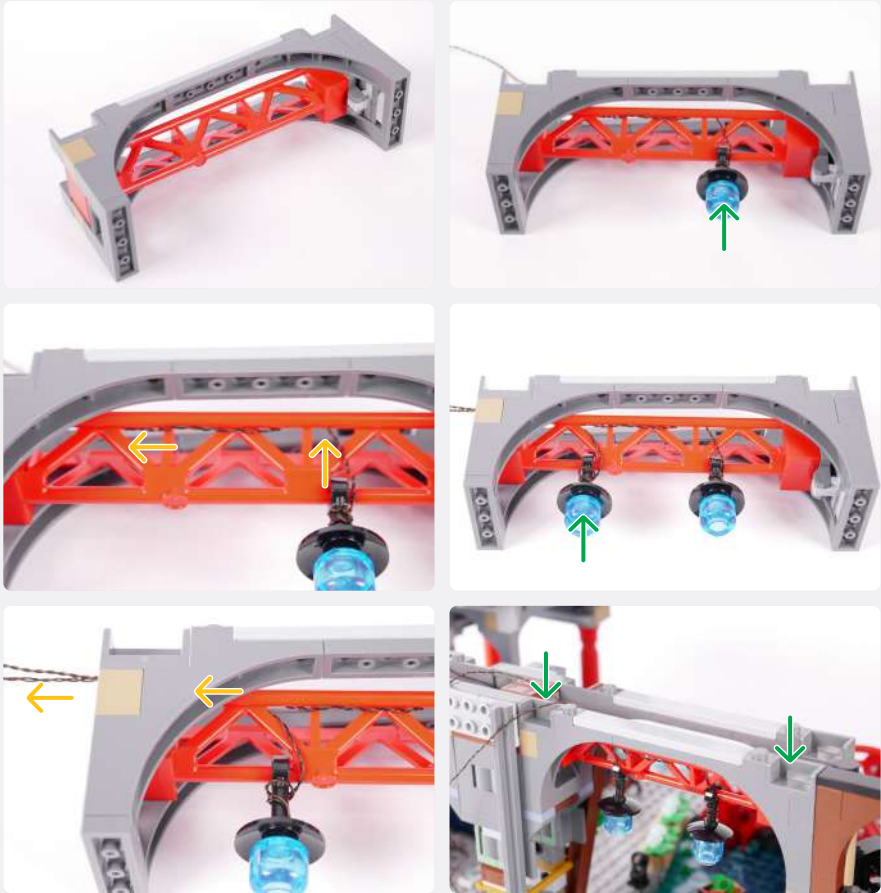
Cool White 30cm Bit Light

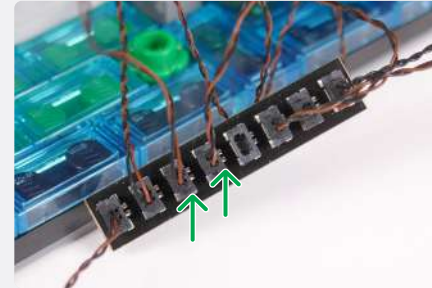
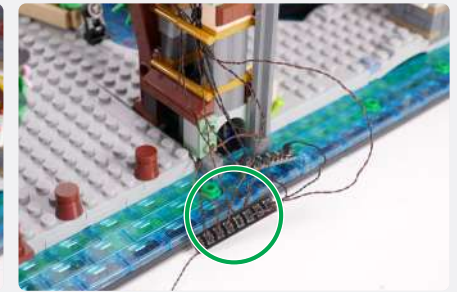
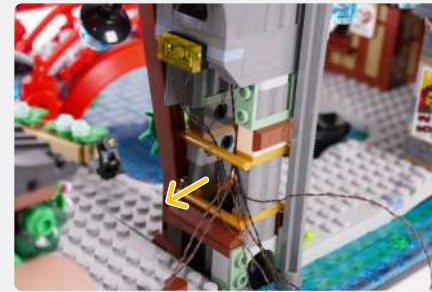
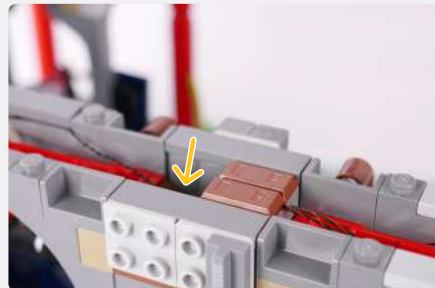
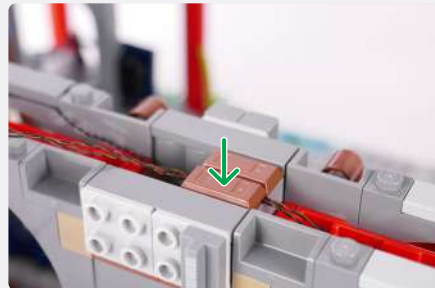
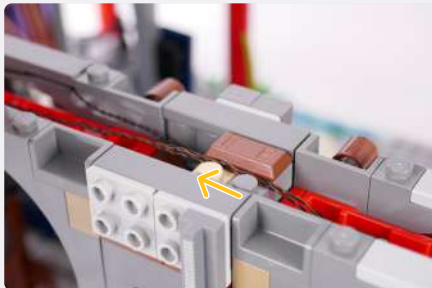
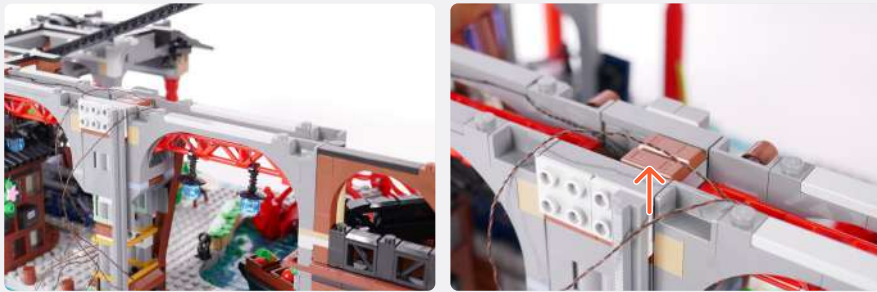


Dish 2x2 Inverted (Radar) - Black

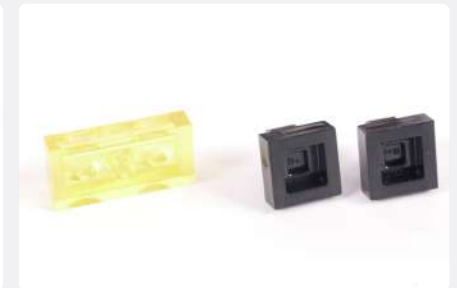


29

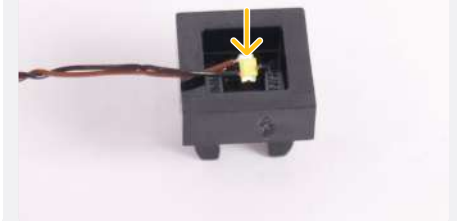


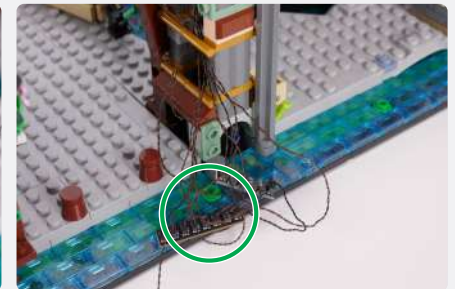
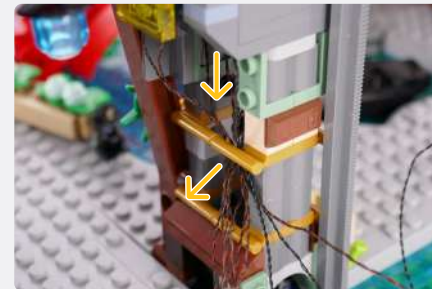
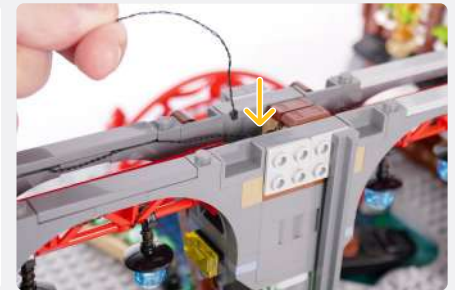
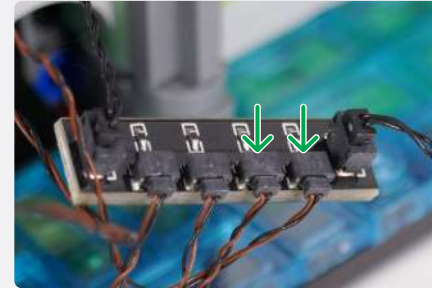
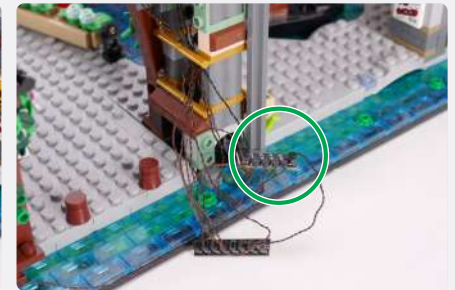
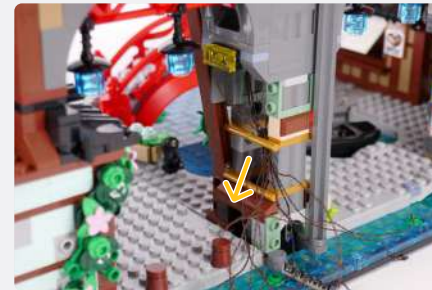
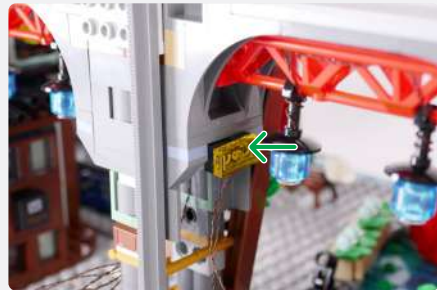
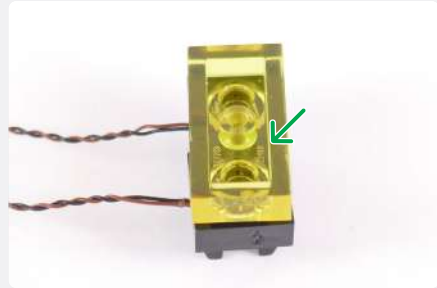
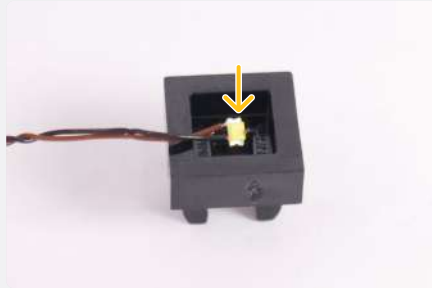
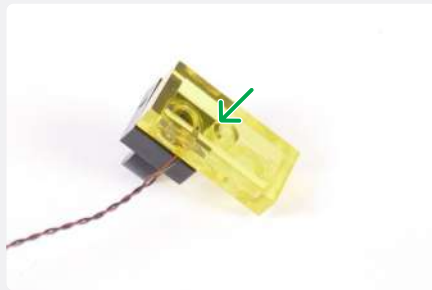


**30**

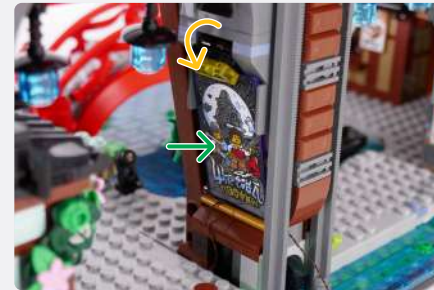
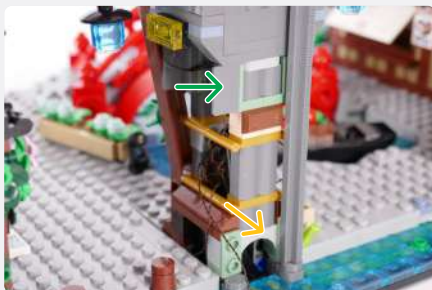
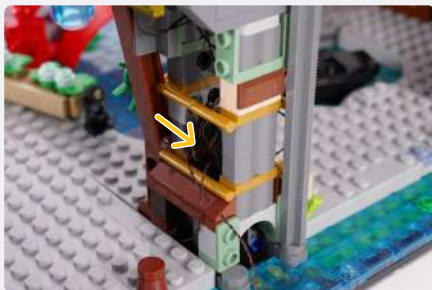
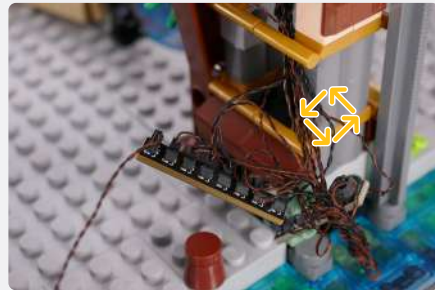
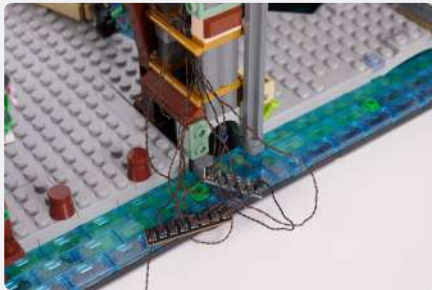
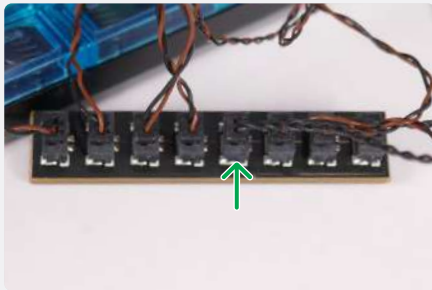


White 15cm Micro Bit Light





**31**



32



NOTE

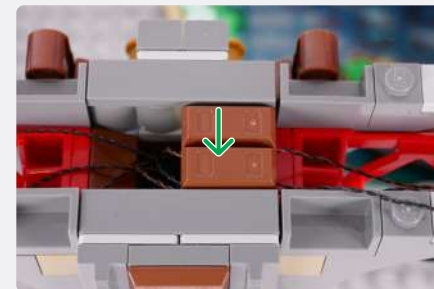
Connect to a 5V USB Power Bank, 5V USB Wall Adaptor, or USB to AA Battery Pack (sold separately)

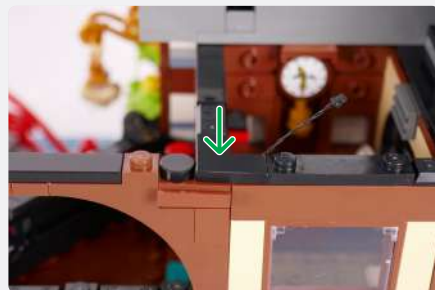
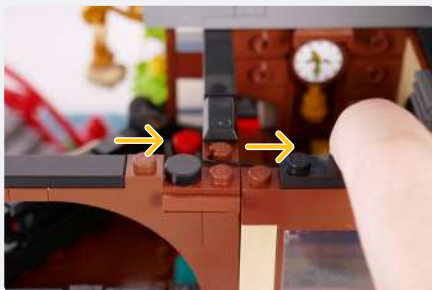
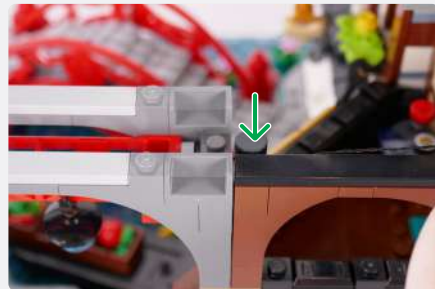


! If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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



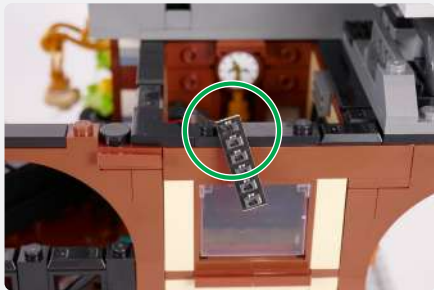
33





**34**

**6-Port Expansion Board**



**White Strip Light**



**Plate 1x6 - Dark Bluish Gray**



**15cm Connecting Cable**

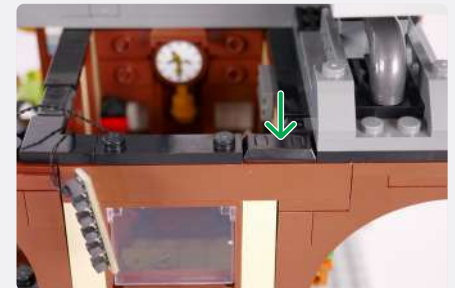
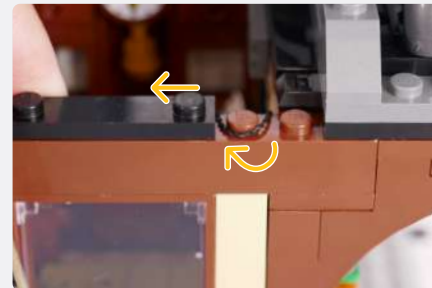
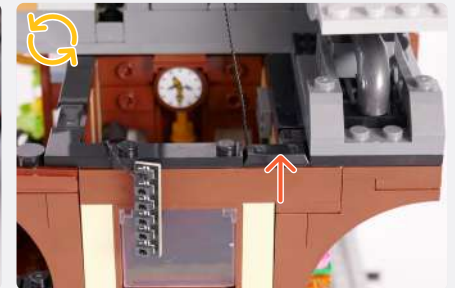
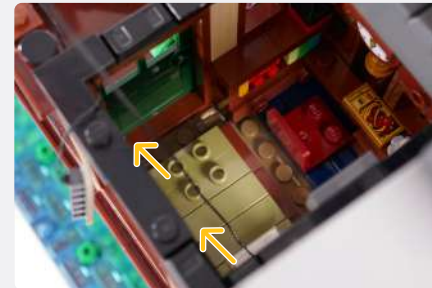


35



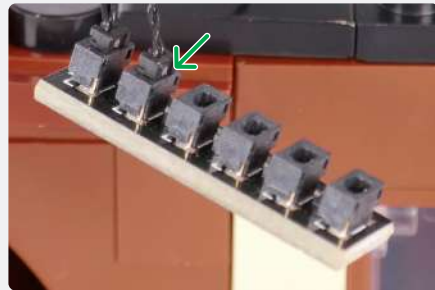
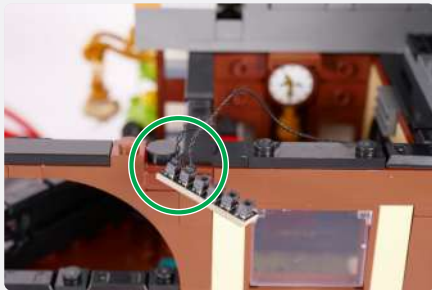
**NOTE**

The 1x6 Plate does not completely stud down. You can stick the Strip Light directly to the plate if you wish instead.





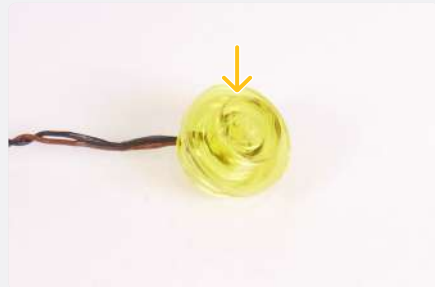
**36**



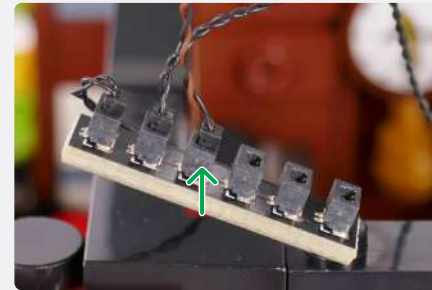
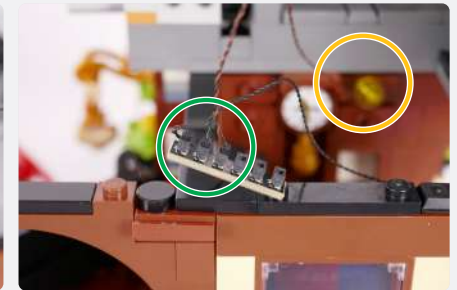
**White 15cm Bit Light**



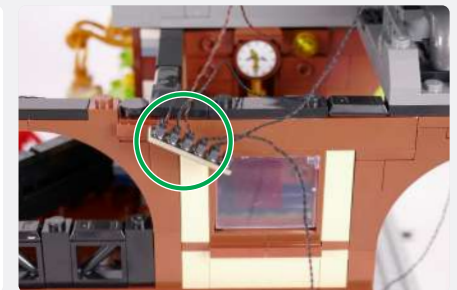
**Plate, Round 1x1 - Trans-Yellow**



**37**

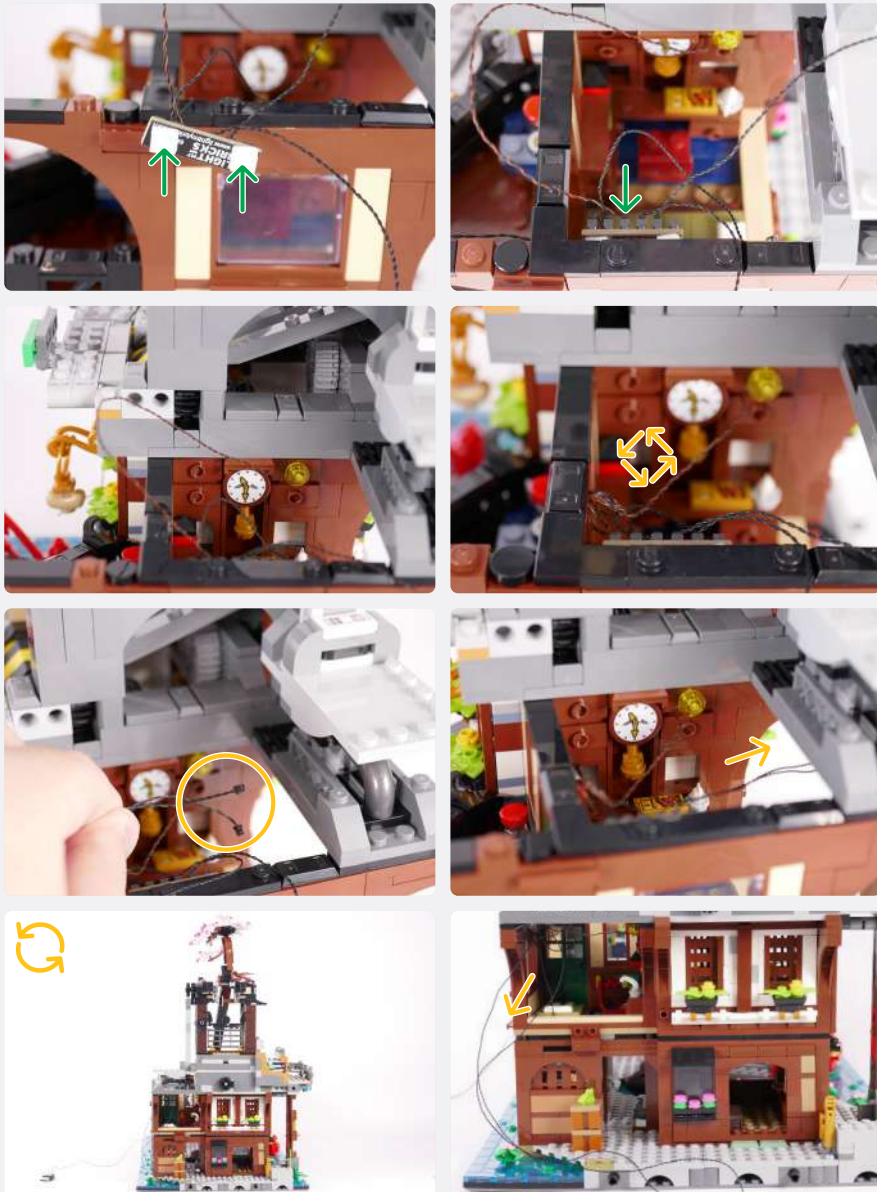


**2x 30cm Connecting Cable**



**2x Adhesive Square**





**38**

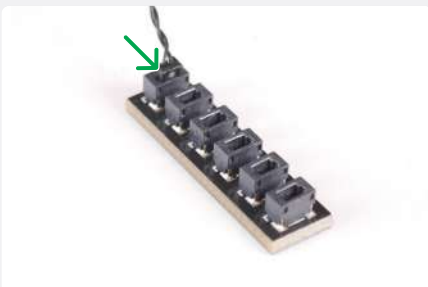
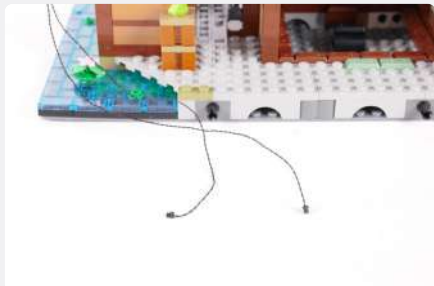
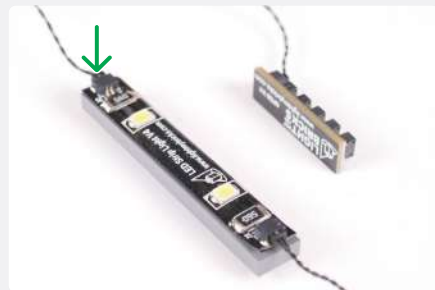


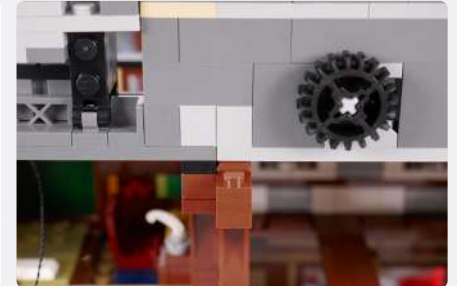
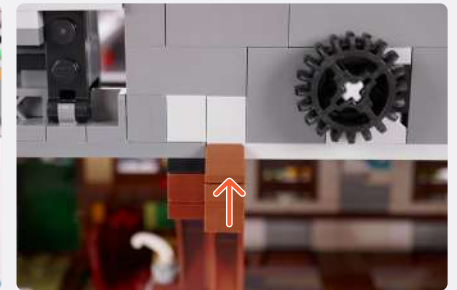
Plate 1x6 - Dark Bluish Gray



5cm Connecting Cable

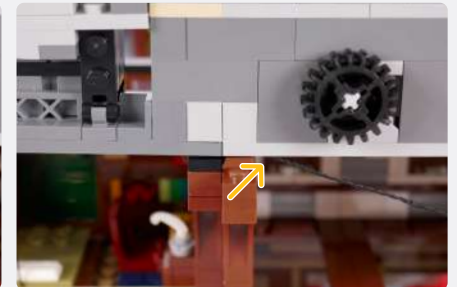
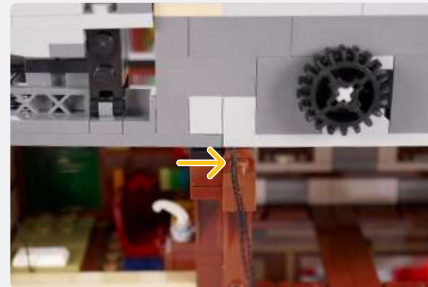
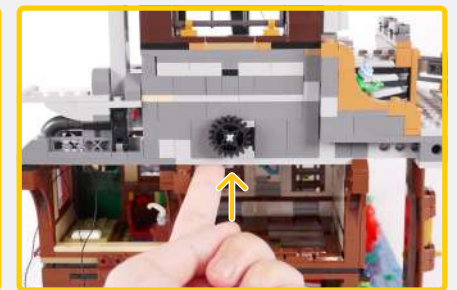


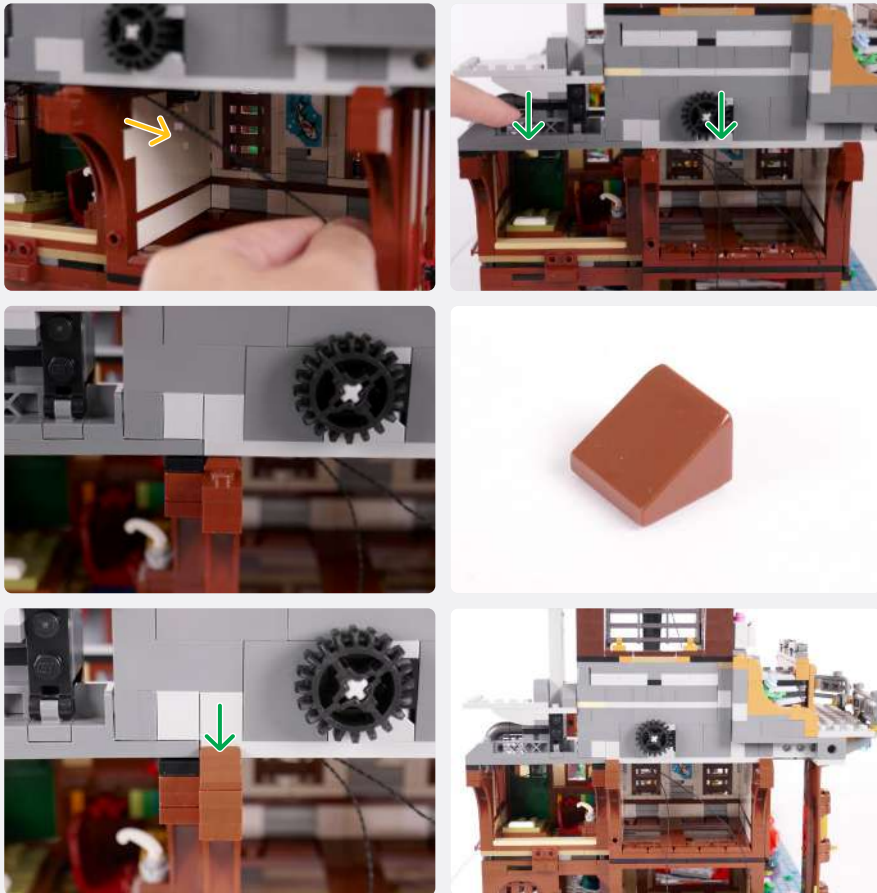
39



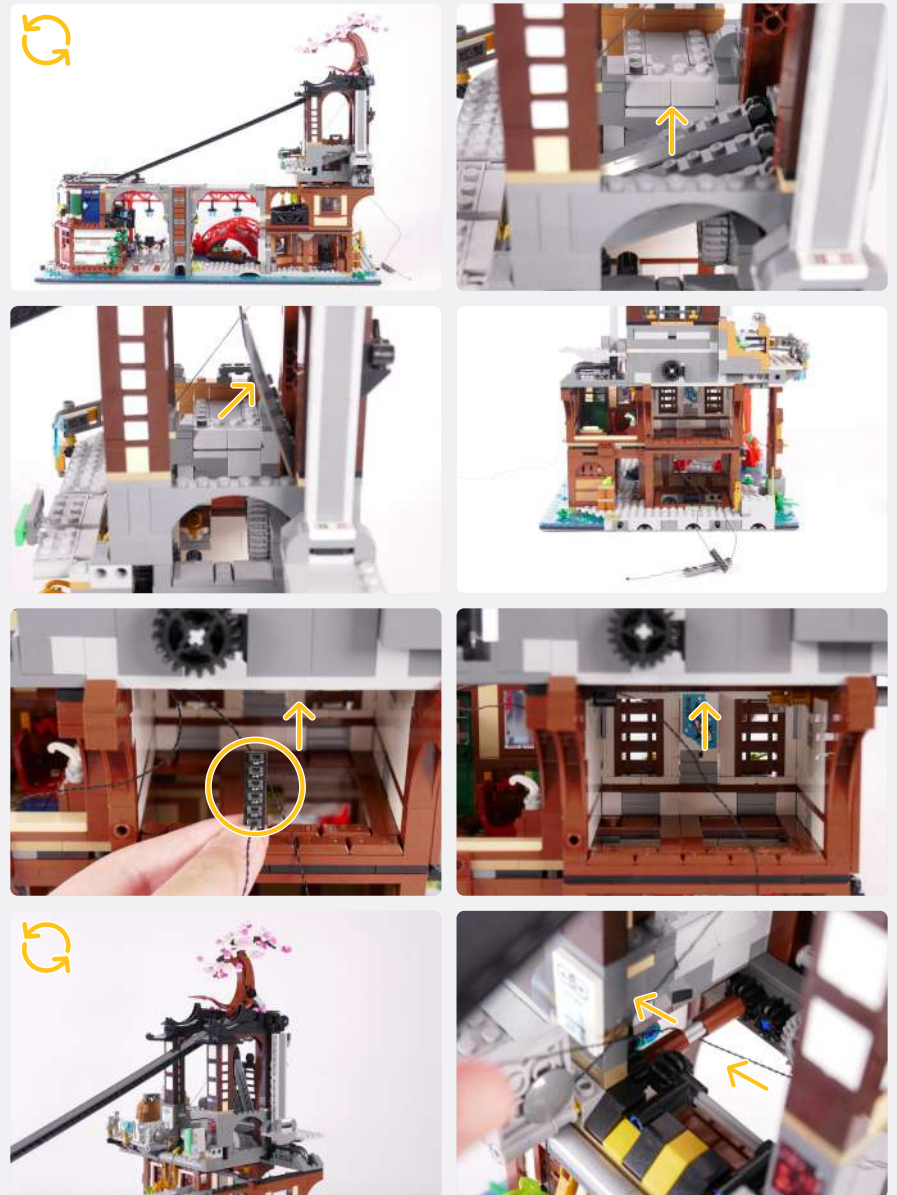
**NOTE**

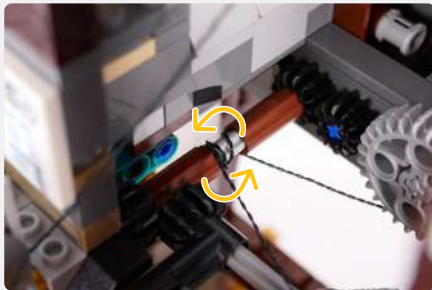
Slightly lift the floor to pull the 30cm Connecting Cables through the gap



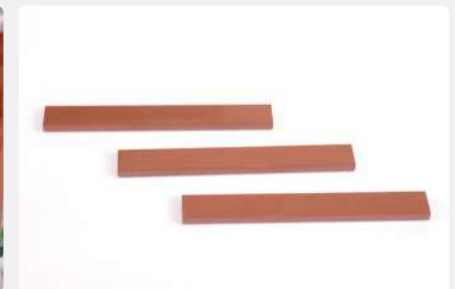
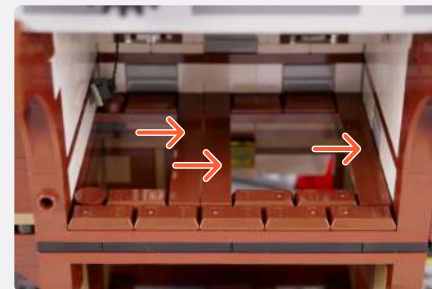
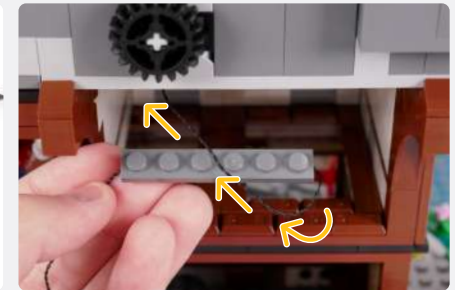
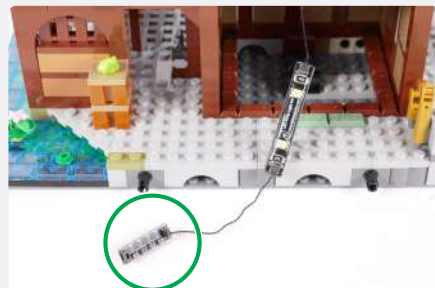
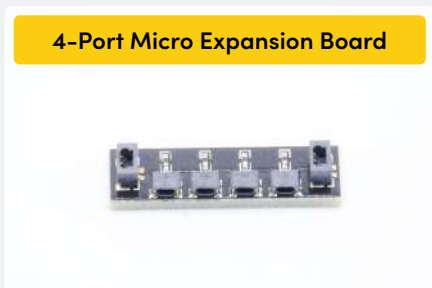
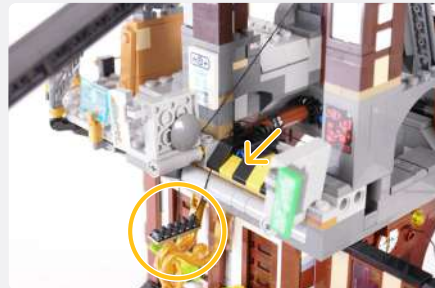
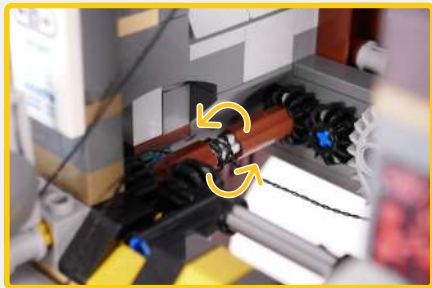


**40**

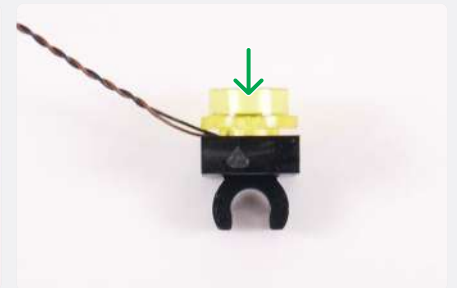
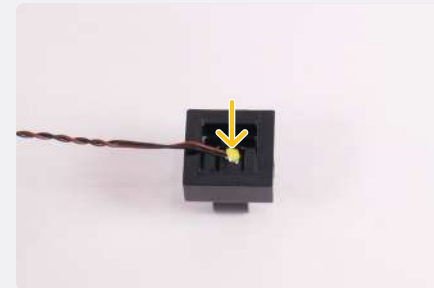
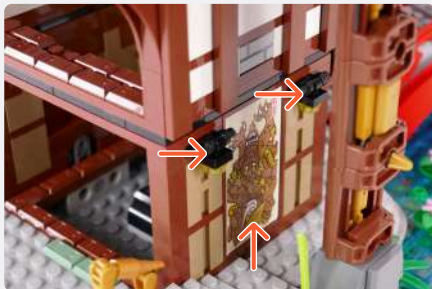




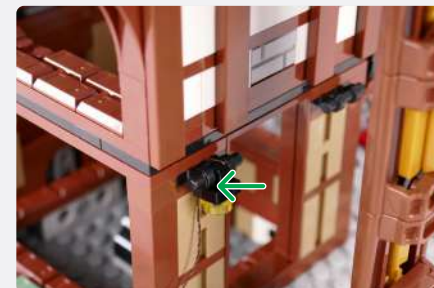
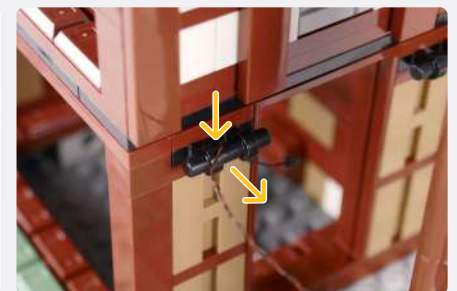
**NOTE**  
Wrap the Connecting Cable with the 6-Port Expansion Board around the axle several times.



**42**

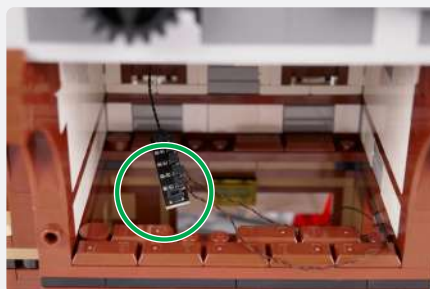
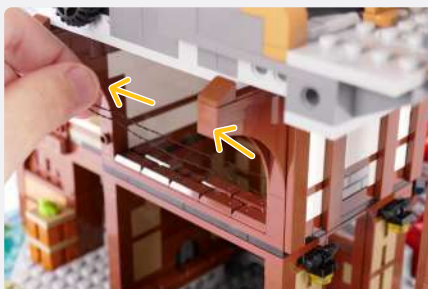
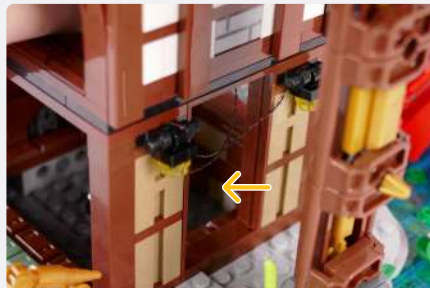
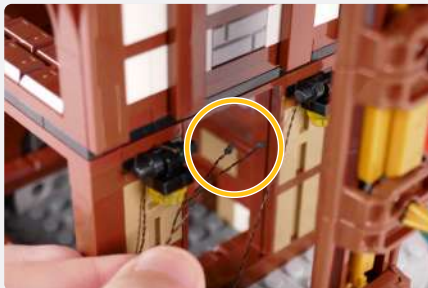
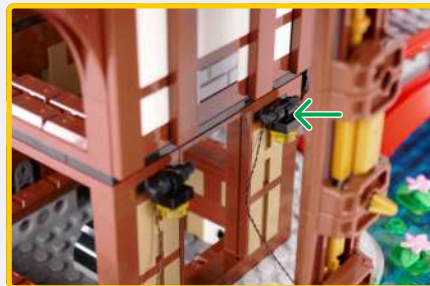


**43**



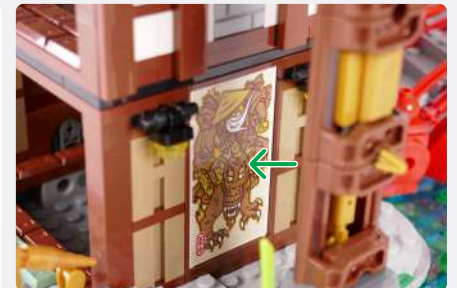
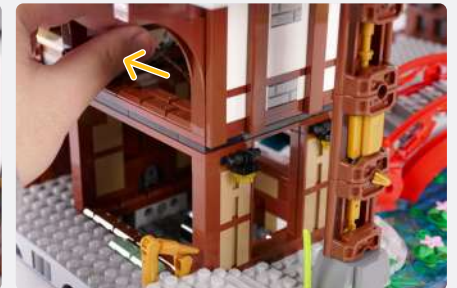
**NOTE**

Repeat the same process for the other side



**NOTE**

If you have troubling connecting the Micro Bit Lights, remove the Connecting Cable from the Micro Expansion Board then reconnect after.

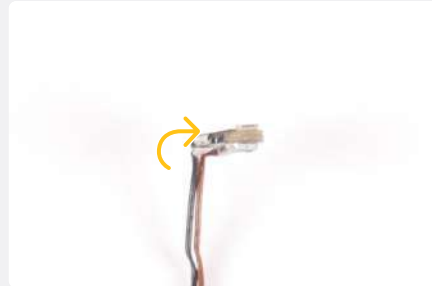


44





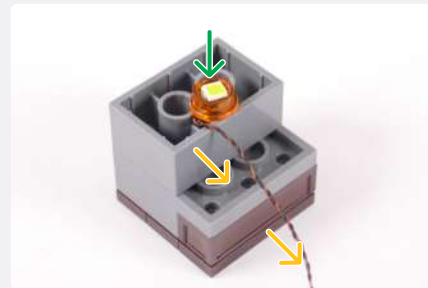
Orange 30cm Large Bit Light



Plate, Round 1x1 with Open Stud - Trans-Orange



**45**



Flicker Effects Board

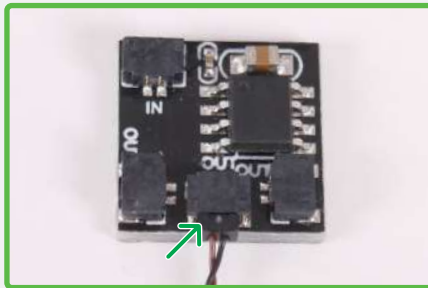






**NOTE**

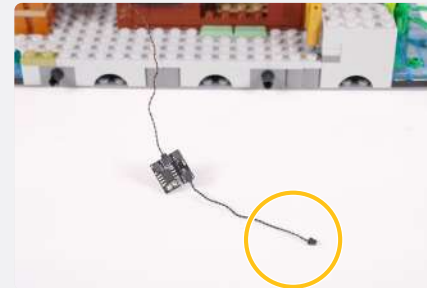
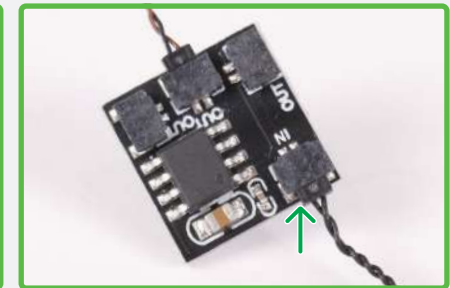
Connect the Orange 30cm Large Bit Light into the "OUT" port of the Flicker Effects Board



**5cm Connecting Cable**

**NOTE**

Connect the 5cm Connecting Cable into the "IN" port of the Flicker Effects Board

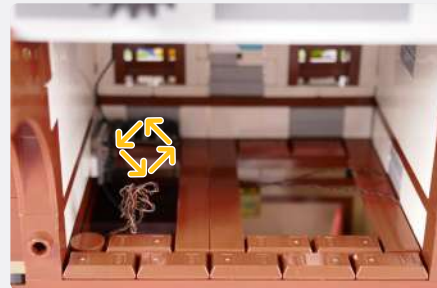
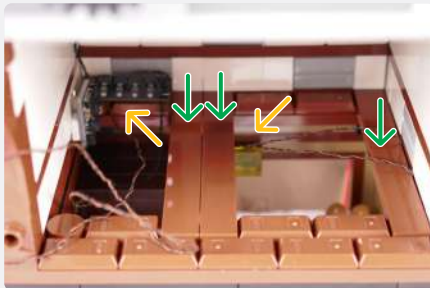
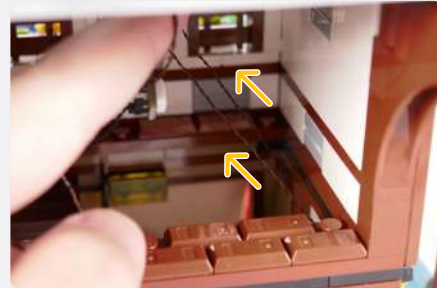
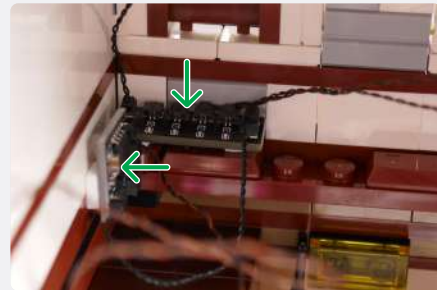
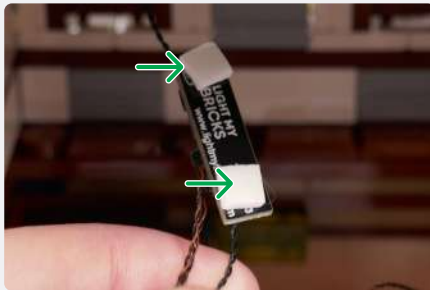


**2x Adhesive Square**



**2x Adhesive Square**

46



NOTE

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





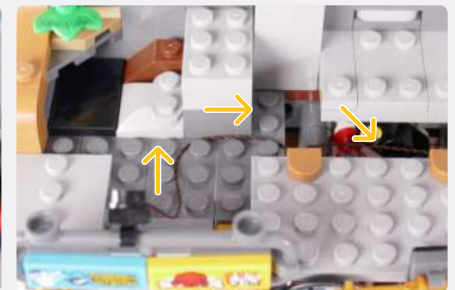
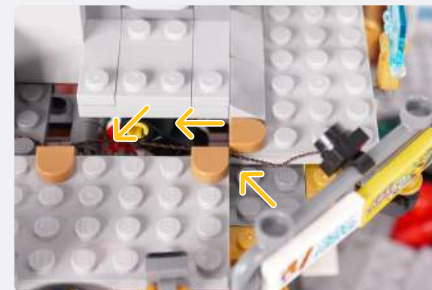
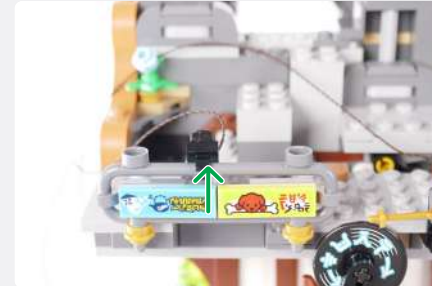
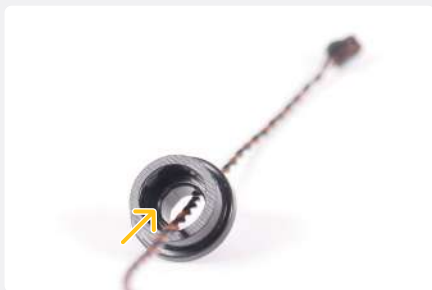
! If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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



47



48

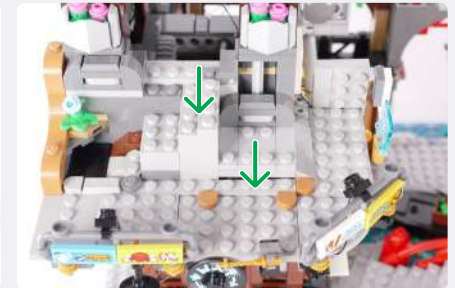
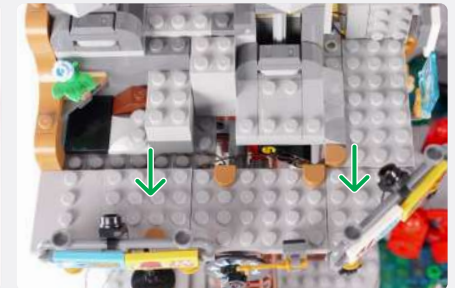
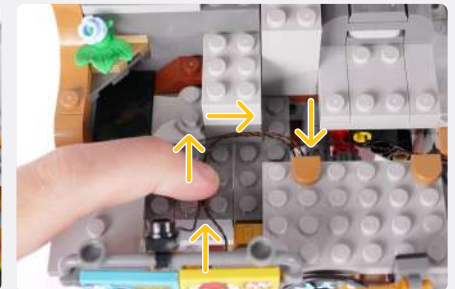


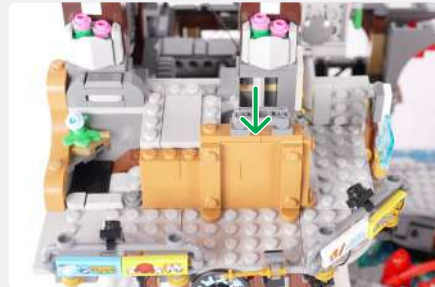
49



Cool White 30cm Bit Light


Dish 2x2 Inverted (Radar) - Black



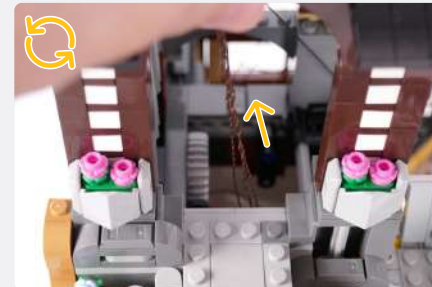
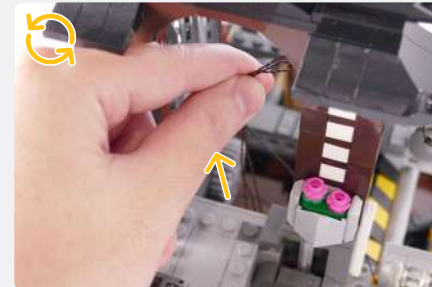



50



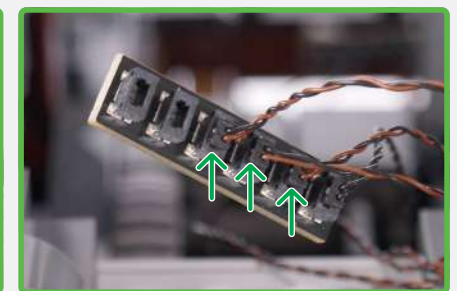
 **NOTE**

Thread the three Bit Light Cables through the following gap



 **NOTE**

Connect the three Bit Lights to the loose 6-Port Expansion Board from Step 40



**51**

Plate, Round 1x1 with Open Stud  
- Black



Pink 30cm Bit Light



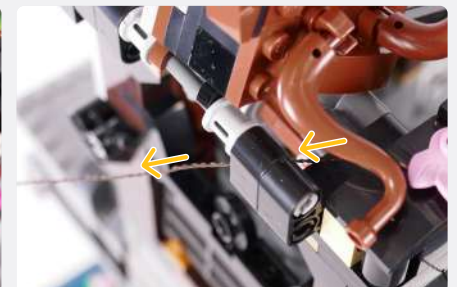
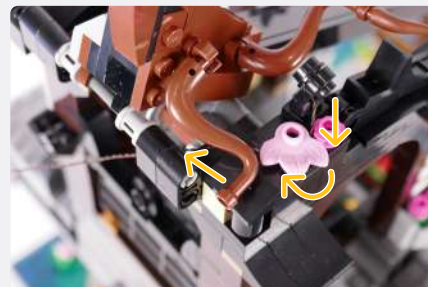
Tile, Modified 1x1 with Open O Clip  
- Black

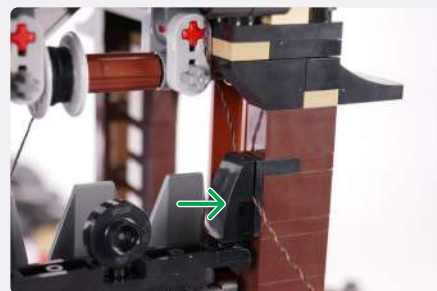
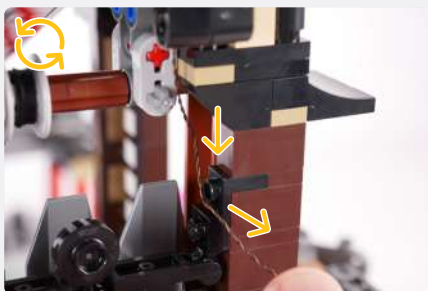
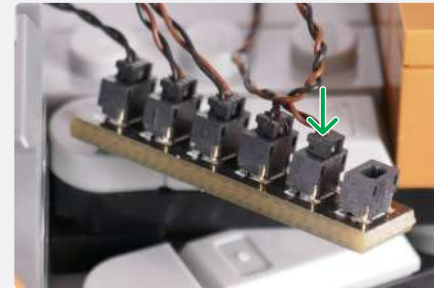
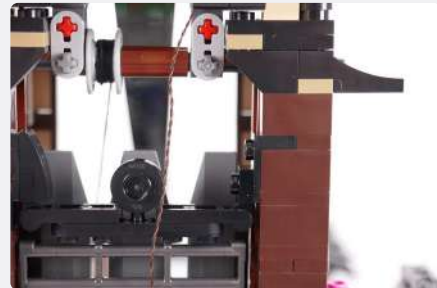
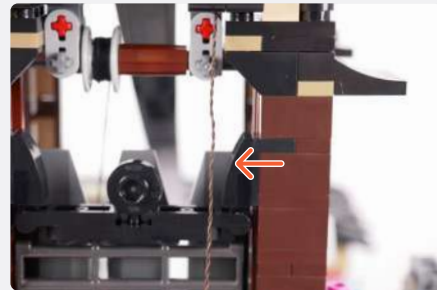


Plate, Round 1x1 with Bar Handle  
- Black



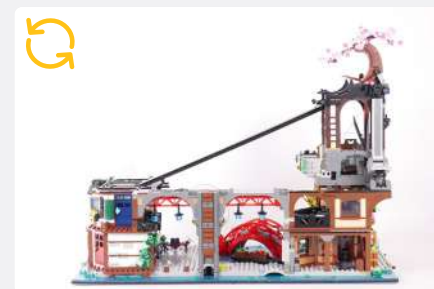
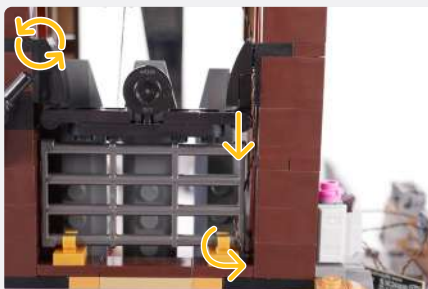
**52**





**53**

2x Adhesive Square







54



NOTE

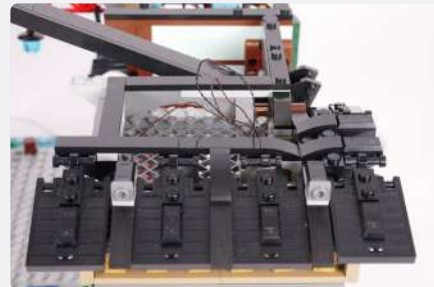
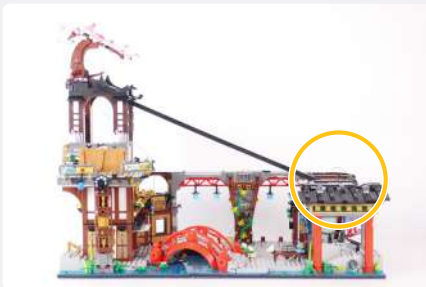
Connect to a 5V USB Power Bank, 5V USB Wall Adaptor, or USB to AA Battery Pack (sold separately)



! 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



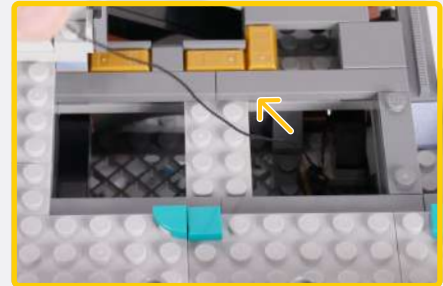
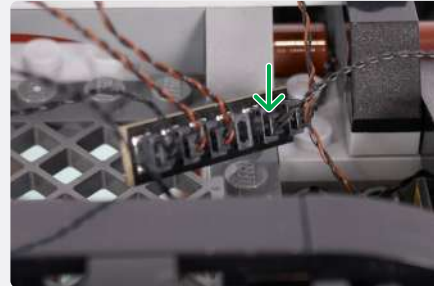
55



**NOTE**

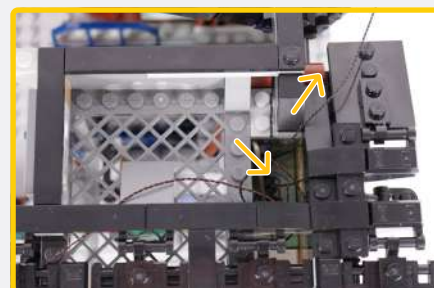
Pull the 15cm Connecting Cable up up from the ground floor through the hole

**15cm Connecting Cable**

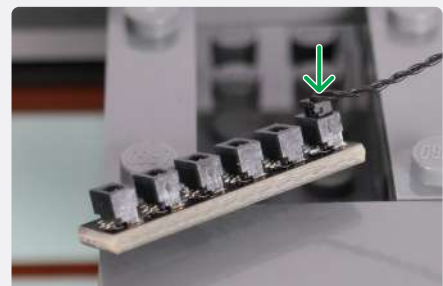
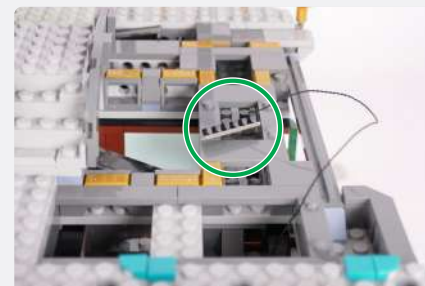
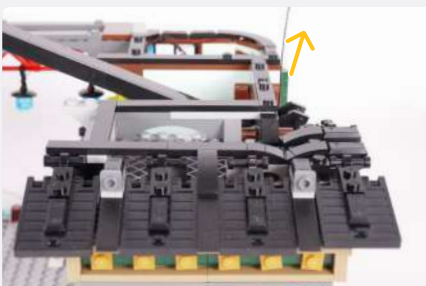


**NOTE**

Push the Expansion Board and cables down the cavity except for the loose 15cm Connecting Cable



**6-Port Expansion Board**



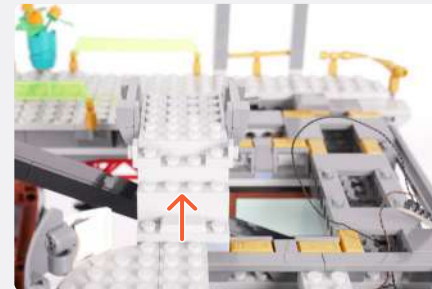
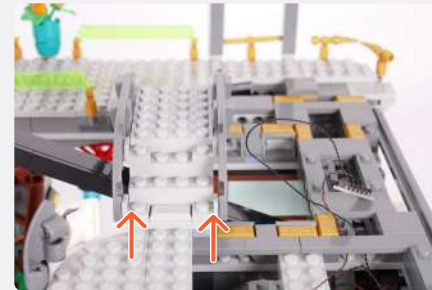
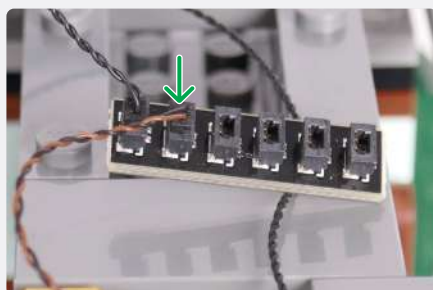
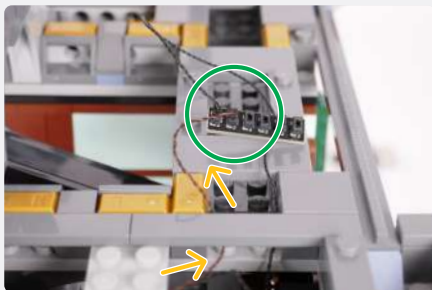
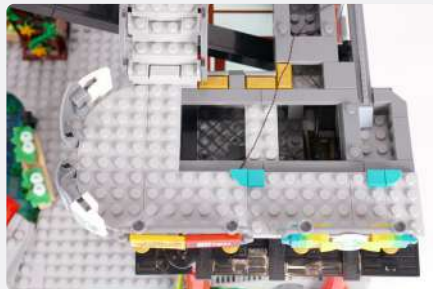
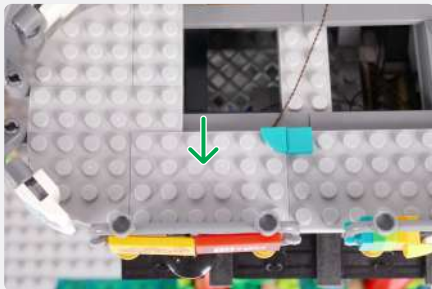
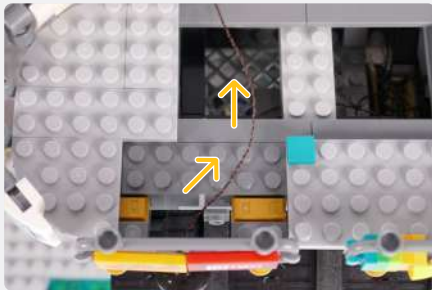
56



Dish 2x2 Inverted (Radar) - Black



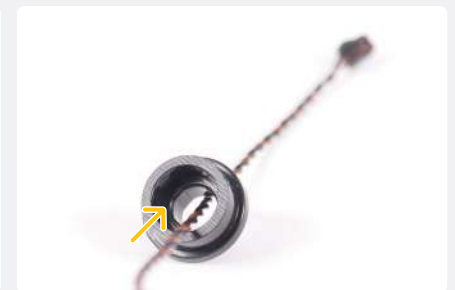
**57**

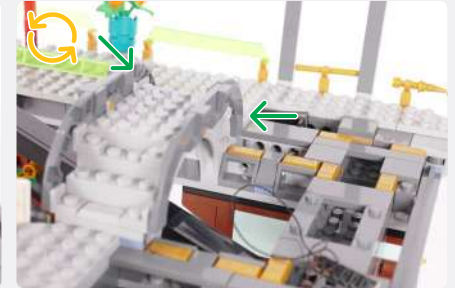
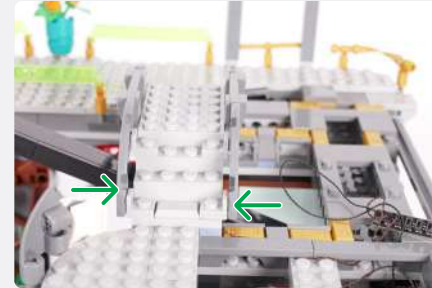
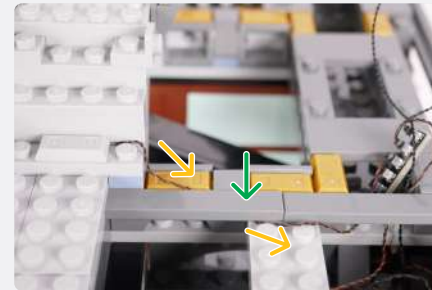
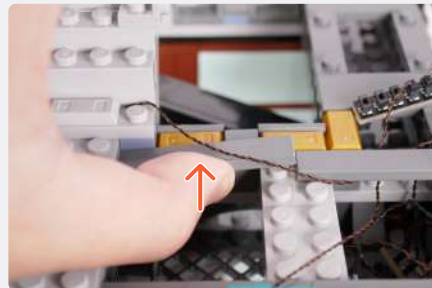
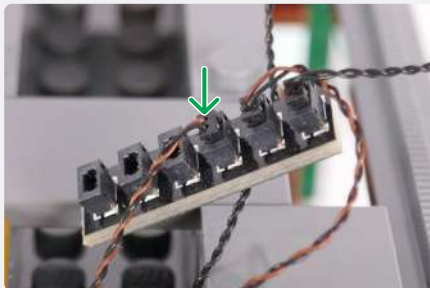
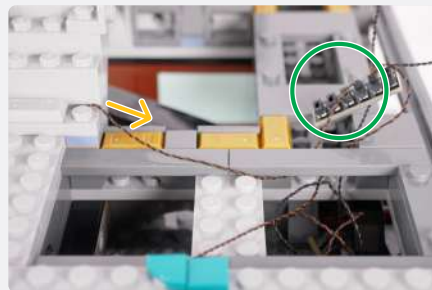
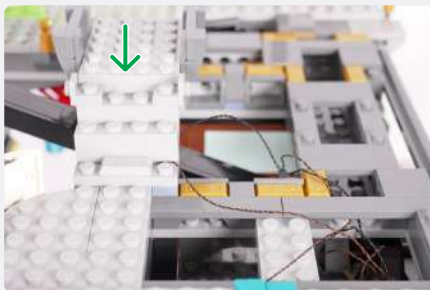
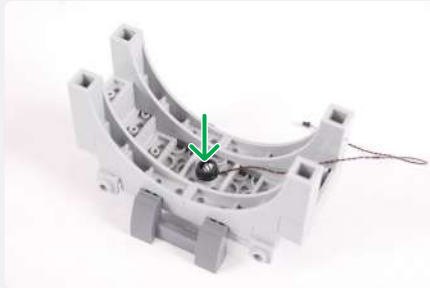
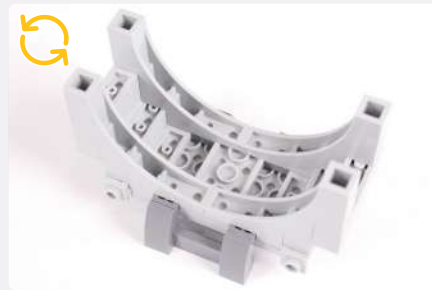


**Red to Blue 15cm Bit Light**

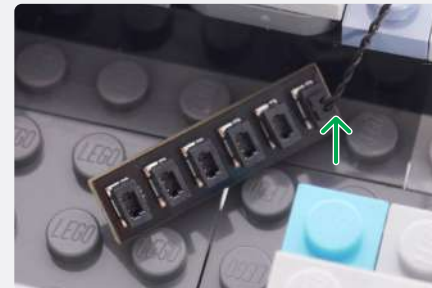
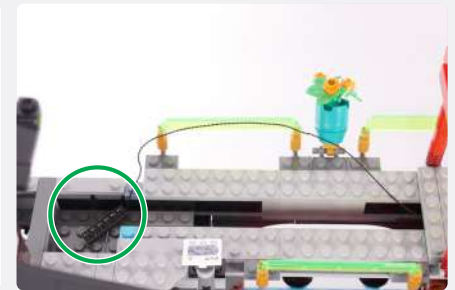
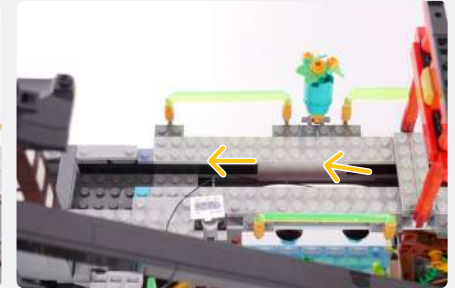
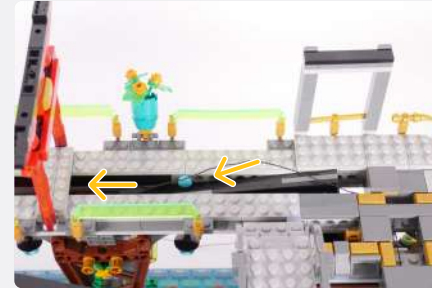
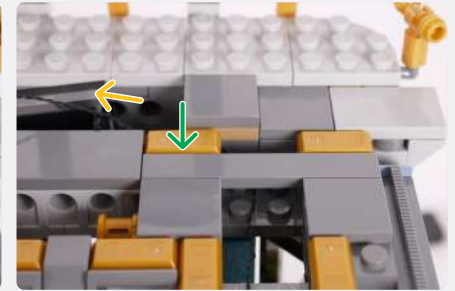
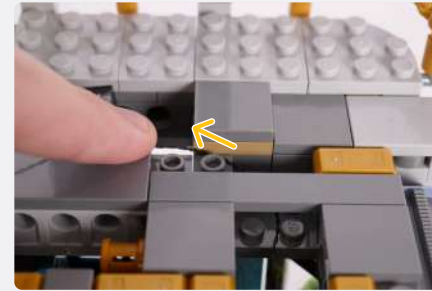
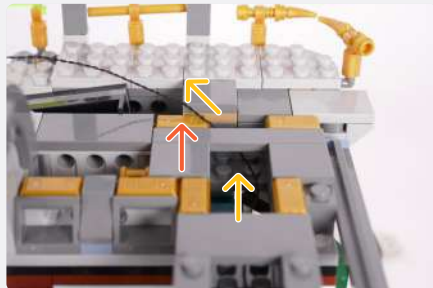
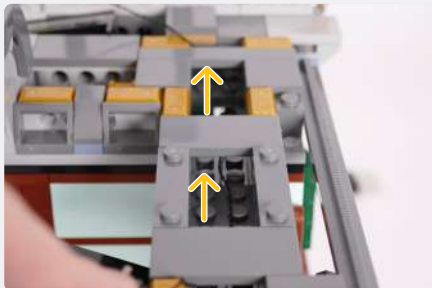
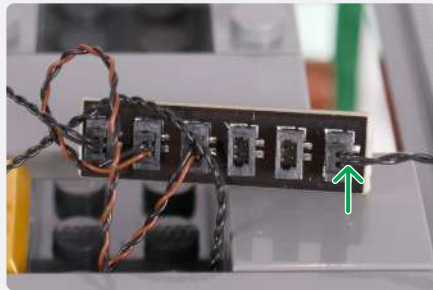
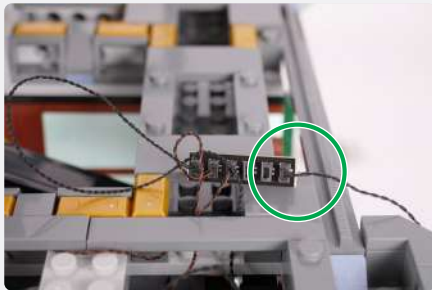
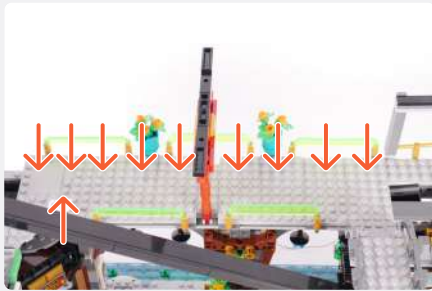


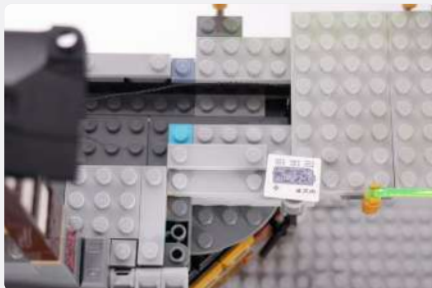
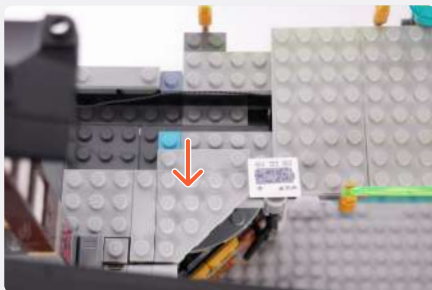
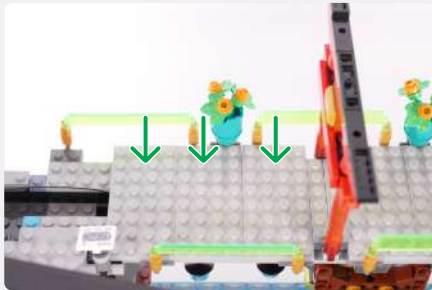
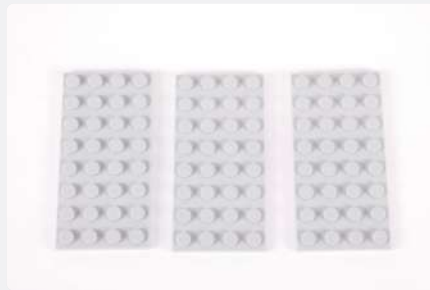
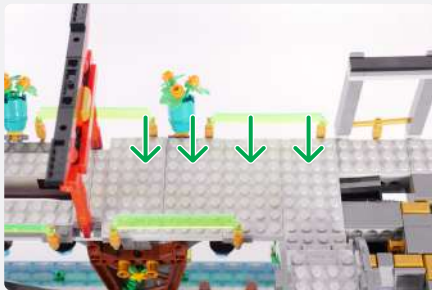
**Plate, Round 1x1 with Open Stud - Black**





58





Plate, Round 1x1 with Open Stud - Black



Plate, Round 1x1 with Bar Handle - Black



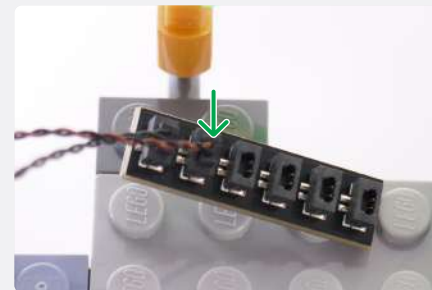
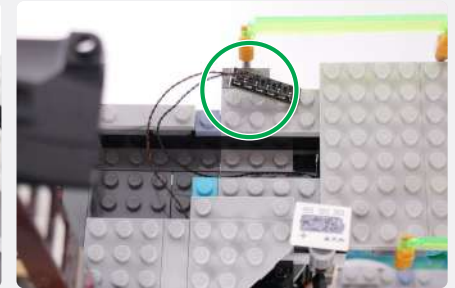
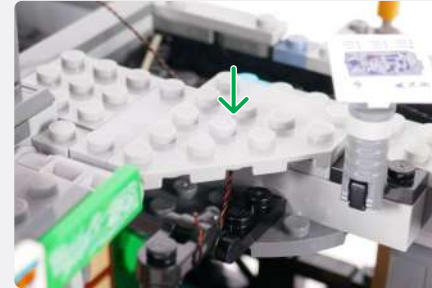
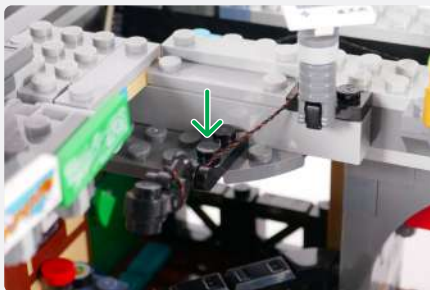
Arm Skeleton, Bent with Clips (Horizontal Grip) - Black



Plate, Modified 1x2 with Bar Handle on End - Black



59



60



**61**

Plate, Round 1x1 with Open Stud - Black



Warm White 15cm Large Bit Light



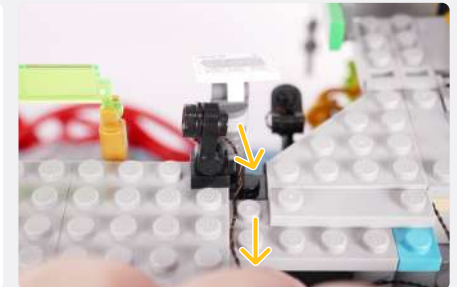
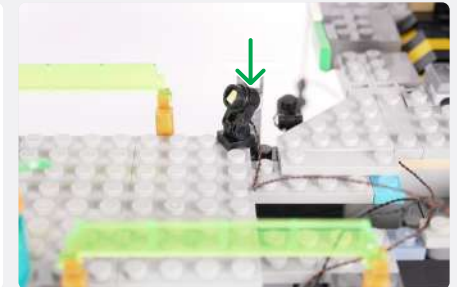
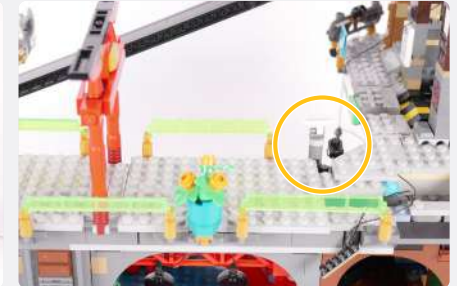
Tile, Modified 1x1 with Open O Clip - Black

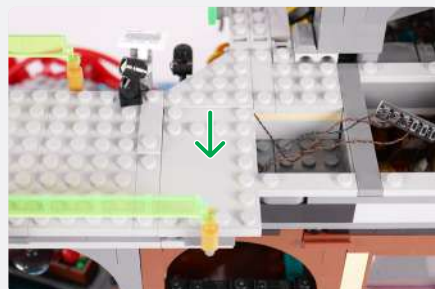
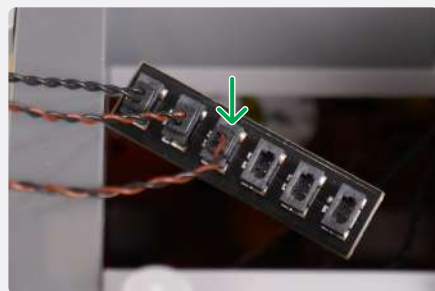
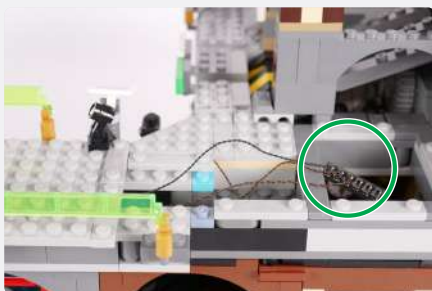
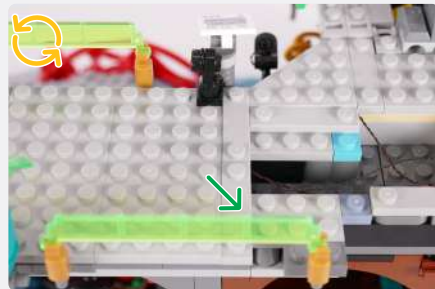


Plate, Round 1x1 with Bar Handle - Black



**62**





**NOTE**

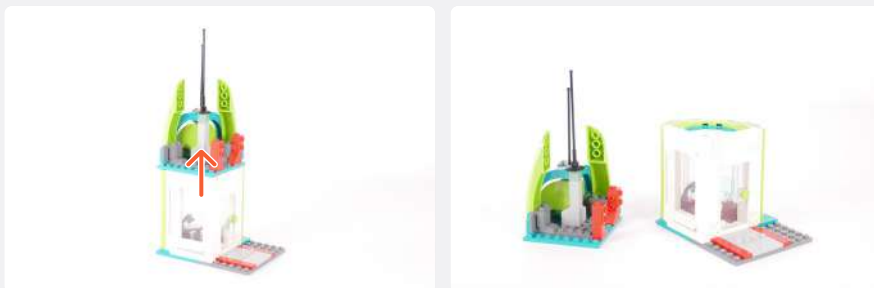
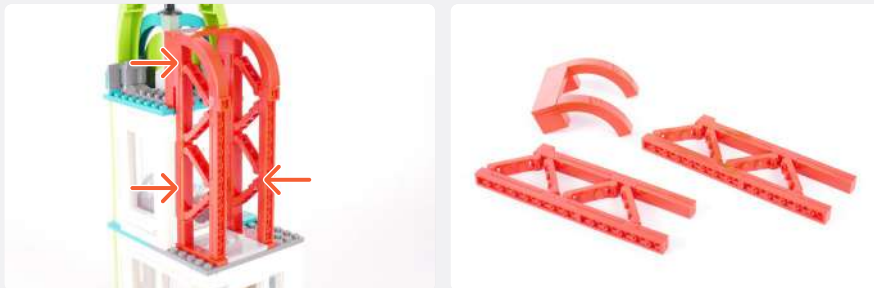
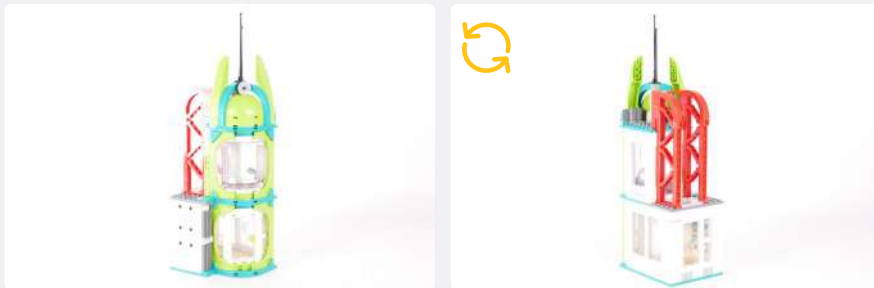
Connect to a 5V USB Power Bank, 5V USB Wall Adaptor, or USB to AA Battery Pack (sold separately)



**!** 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.



**63**



**64**



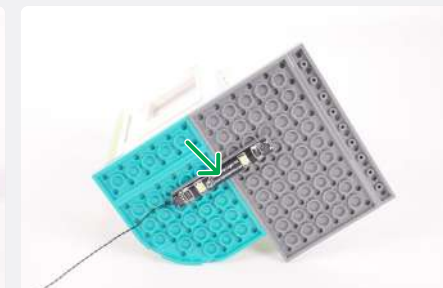
White Strip Light

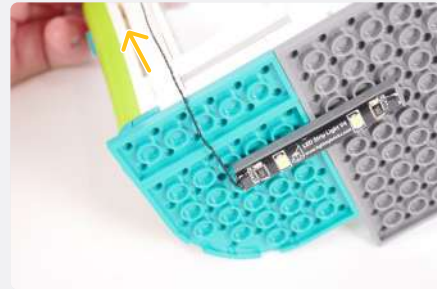
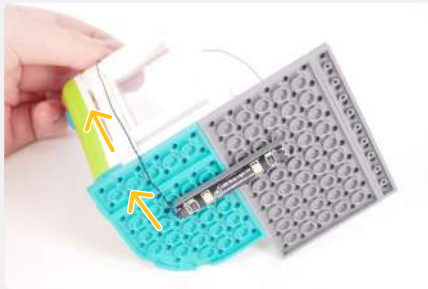


Plate 1x6 - Dark Bluish Gray

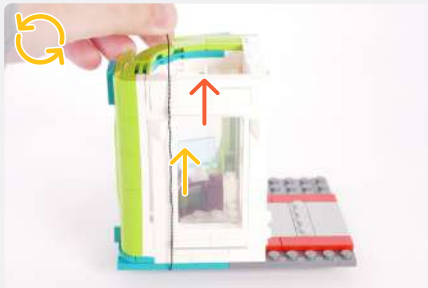
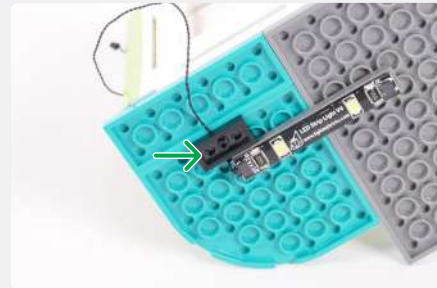


15cm Connecting Cable





**65**



Plate, Round 1x1 - Trans-Red

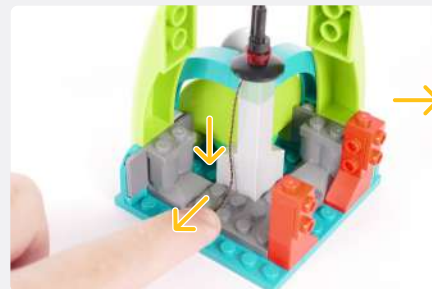
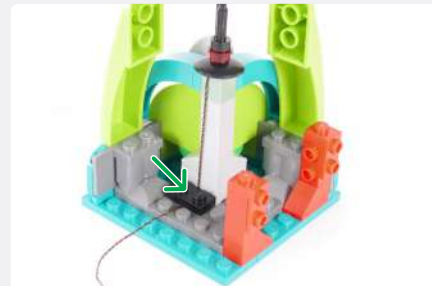
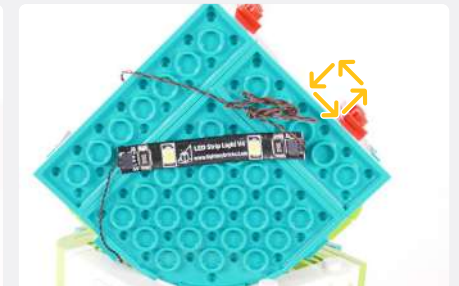
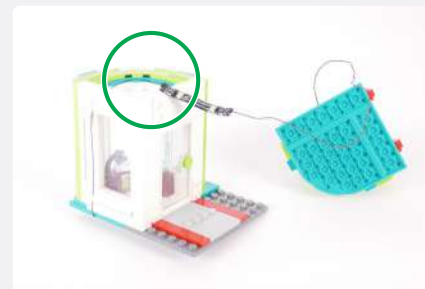


Plate 1x2 - Black

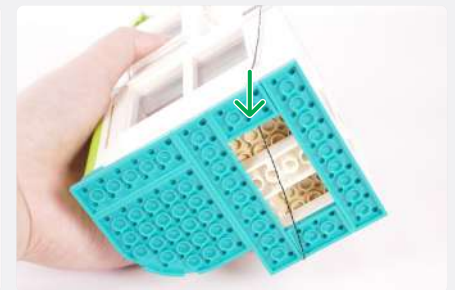
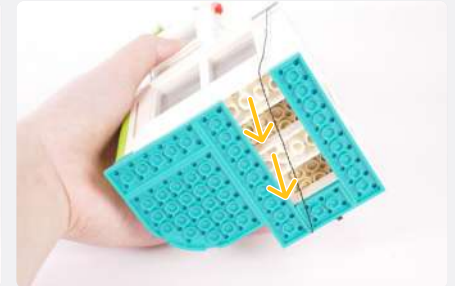
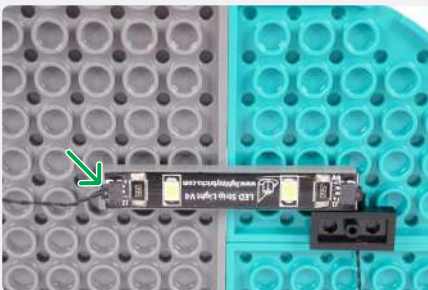
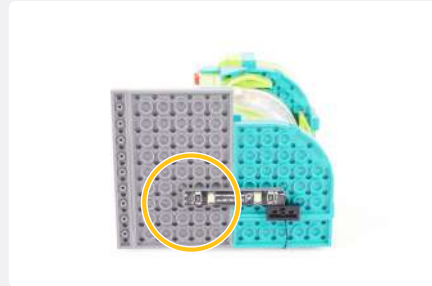
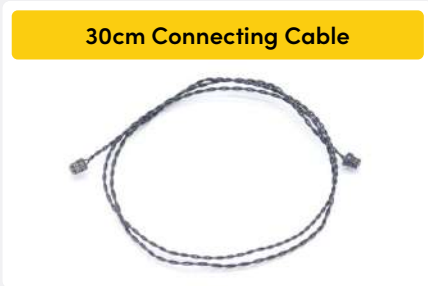


**66**

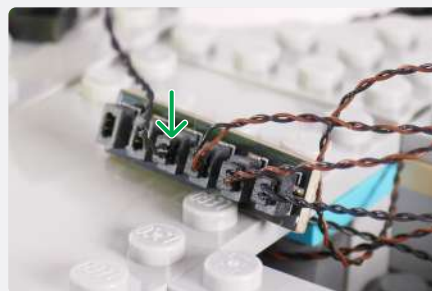
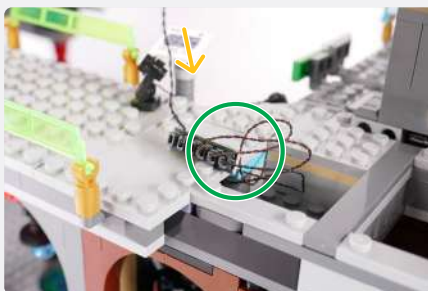
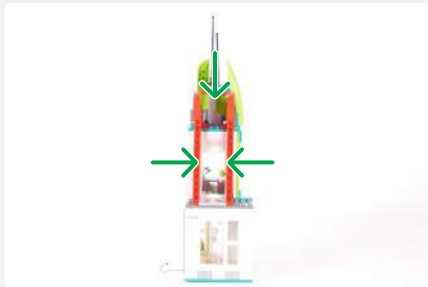
White Strip Light



**67**



68



**NOTE**

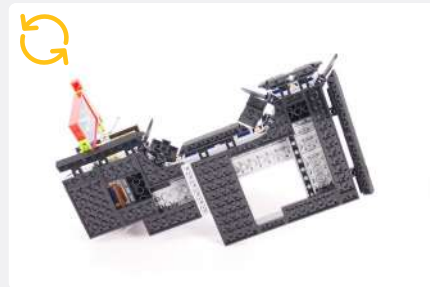
Connect to a 5V USB Power Bank, 5V USB Wall Adaptor, or USB to AA Battery Pack (sold separately)



! 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



69



70

Pink Strip Light



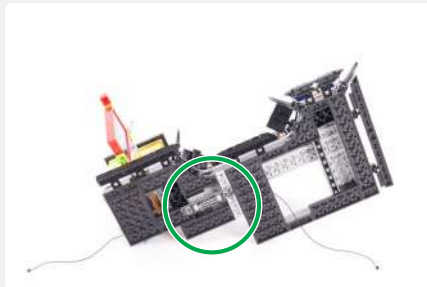
Plate 1x6 - Dark Bluish Gray



15cm Connecting Cable

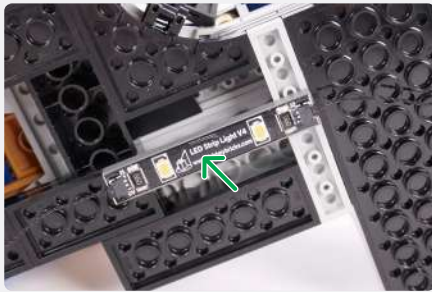


15cm Connecting Cable





71



Blue Strip Light



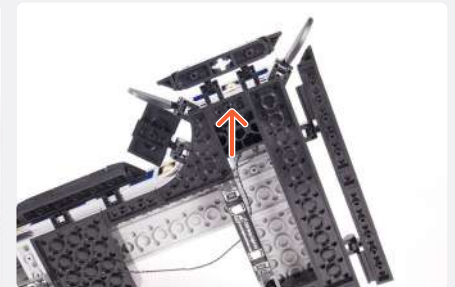
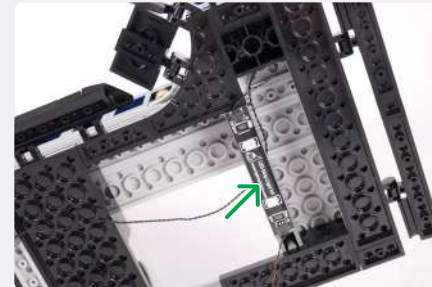
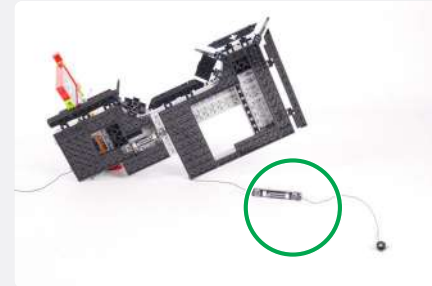
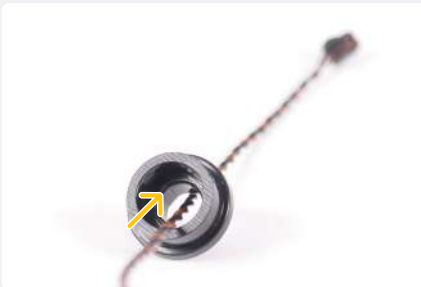
Plate 1x6 - Dark Bluish Gray



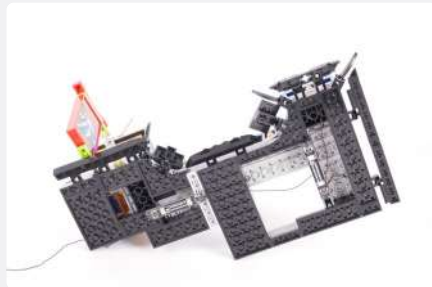
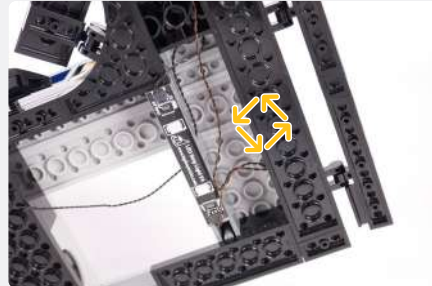
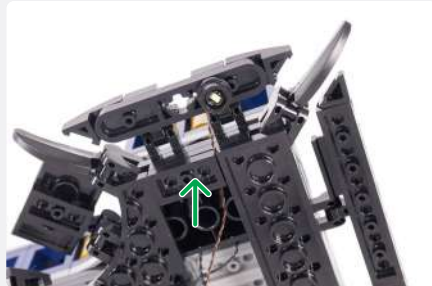
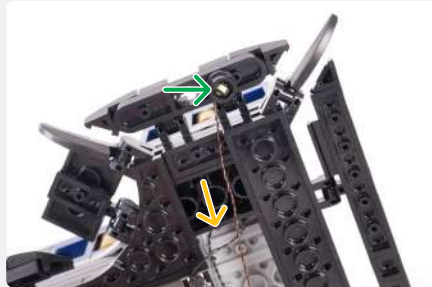
Cool White 15cm Bit Light



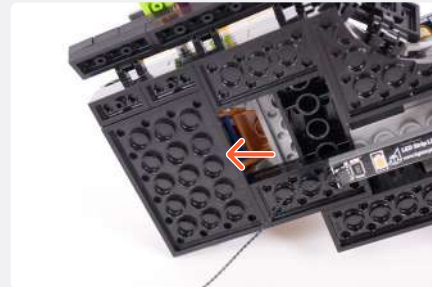
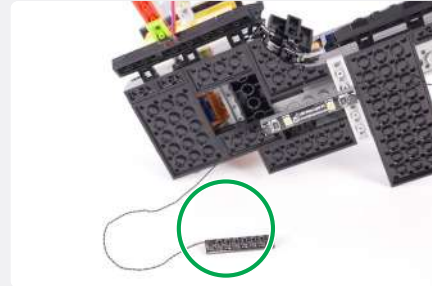
Plate, Round 1x1 with Open Stud - Black



**72**



**8-Port Expansion Board**

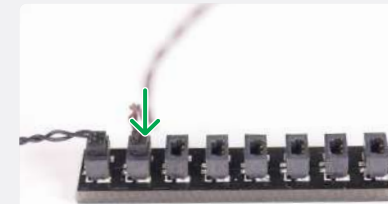
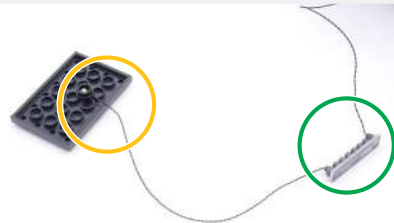


**73**

Cool White 15cm Bit Light



Plate, Round 1x1 with Open Stud - Black



**74**

Cool White 15cm Bit Light



Plate, Round 1x1 with Open Stud - Black



Tile, Modified 1x1 with Open O Clip  
- Black



Plate, Round 1x1 with Bar Handle  
- Black

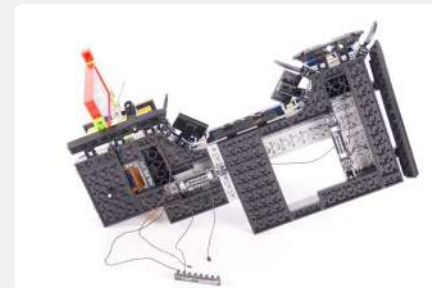
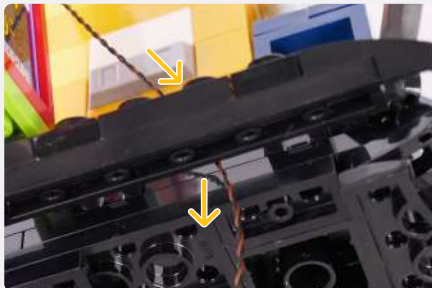


75

Cool White 15cm Bit Light



Plate, Round 1x1 with Open Stud  
- Black



76

Red to Blue 15cm Bit Light



Plate, Round 1x1 with Open Stud - Black



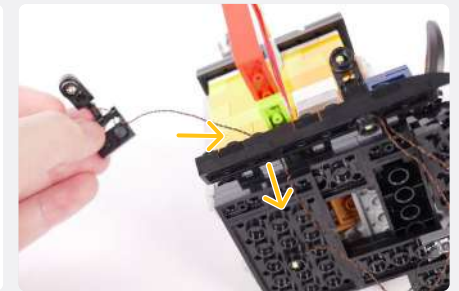
Plate, Round 1x1 with Bar Handle - Black



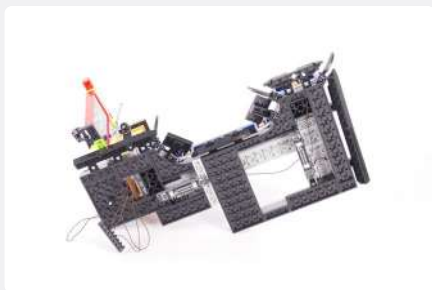
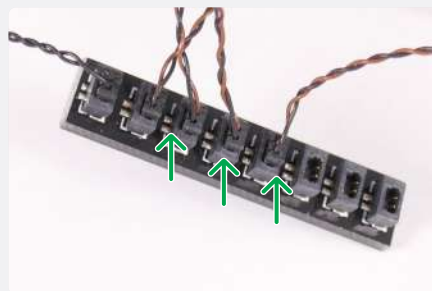
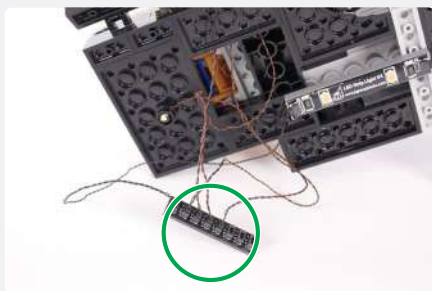
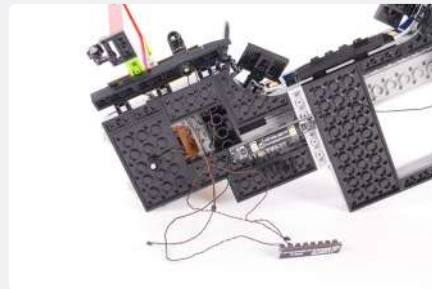
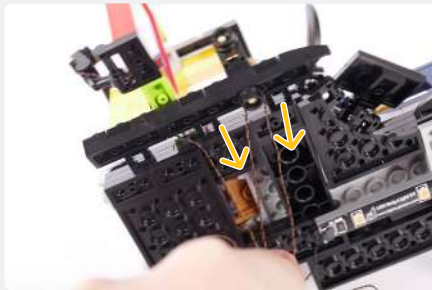
Arm Skeleton, Bent with Clips (Horizontal Grip) - Black



Plate, Modified 1x2 with Bar Handle on Side Closed Ends - Black



**77**

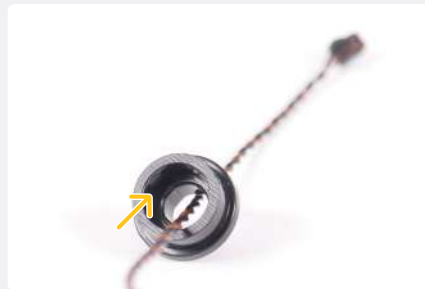


**78**

Cool White 30cm Large Bit Light



Plate, Round 1x1 with Open Stud - Black



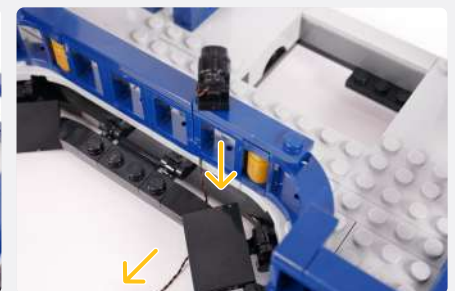
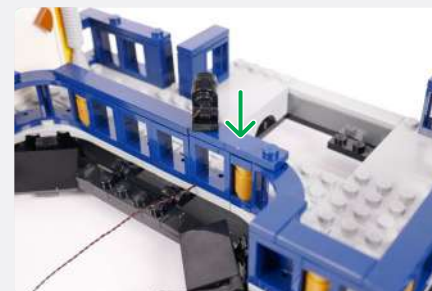
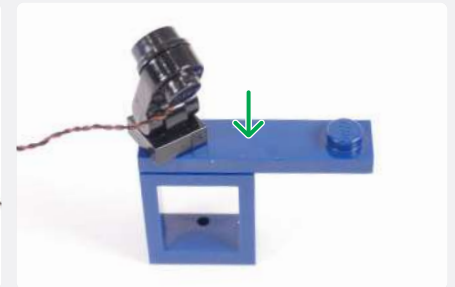
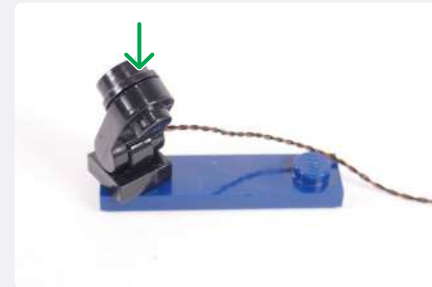
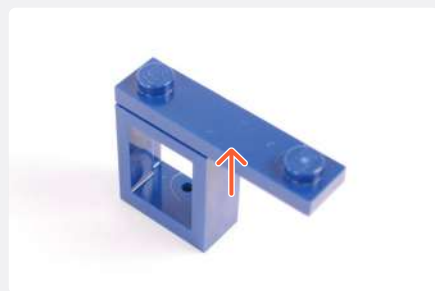
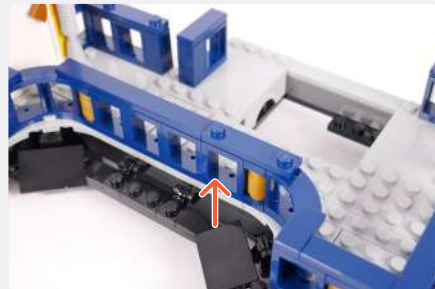
Tile, Modified 1x1 with Open O Clip - Black



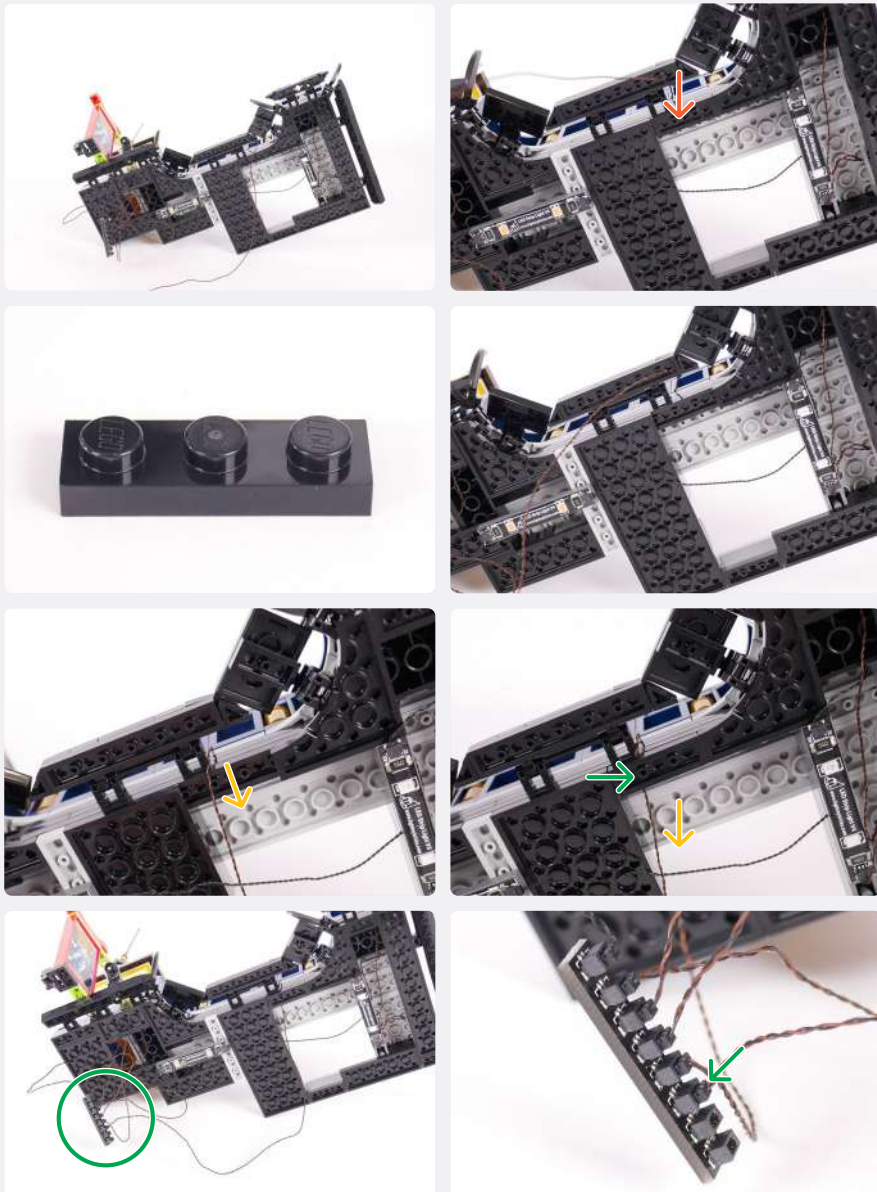
Plate, Round 1x1 with Bar Handle - Black



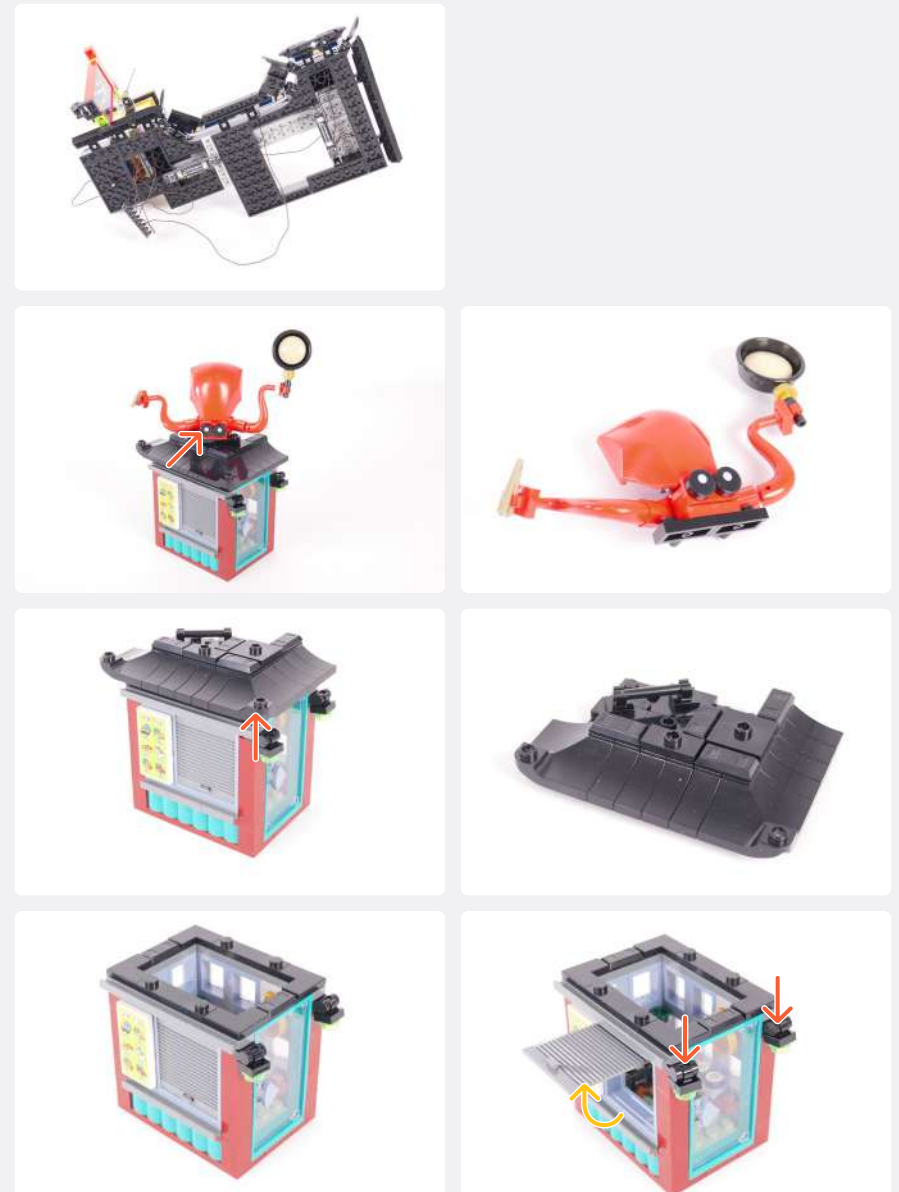
79



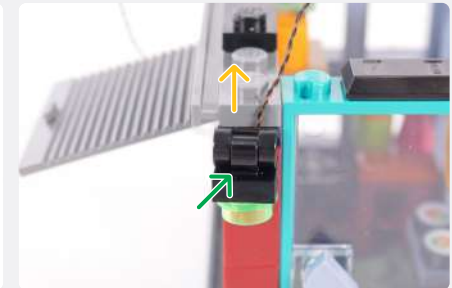
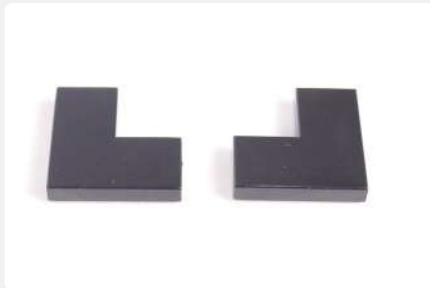
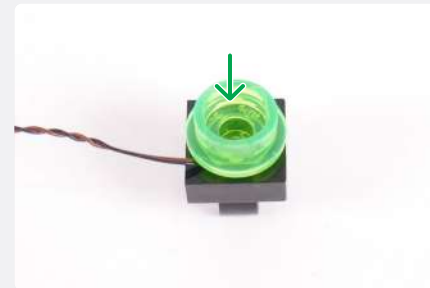
**80**



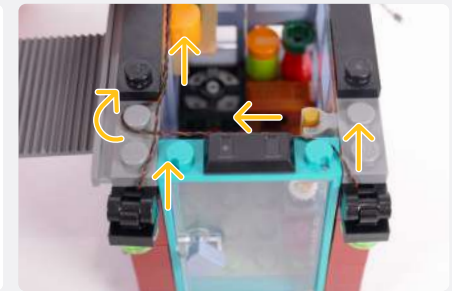
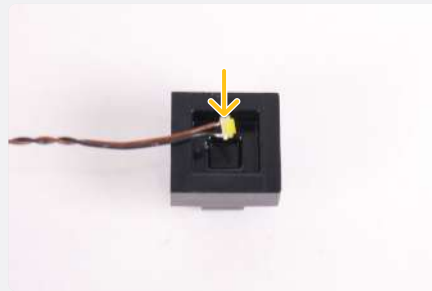
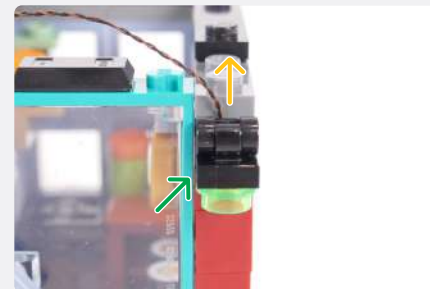
**81**



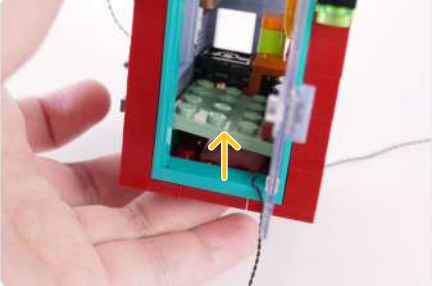
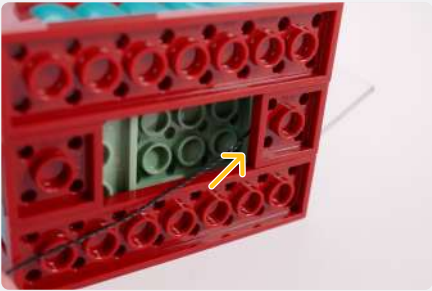
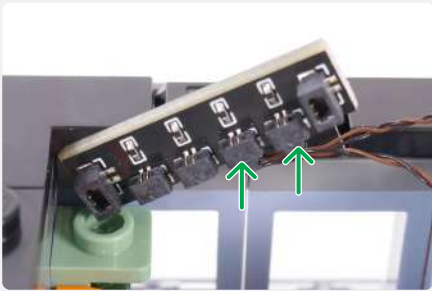
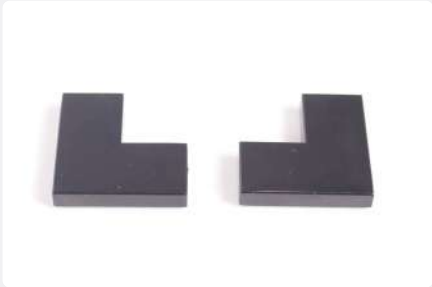


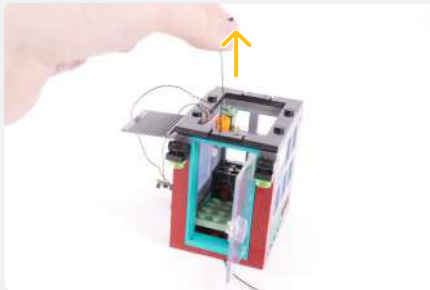


82

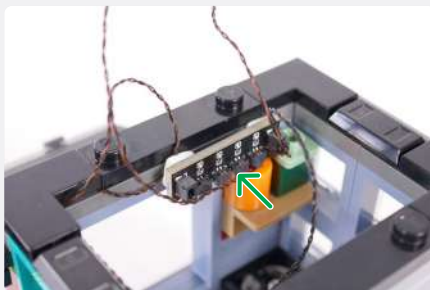
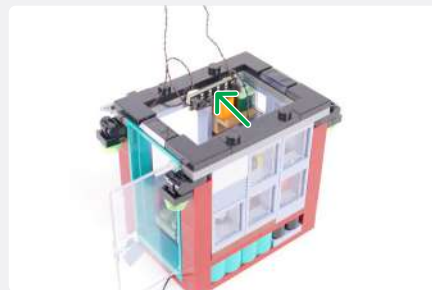
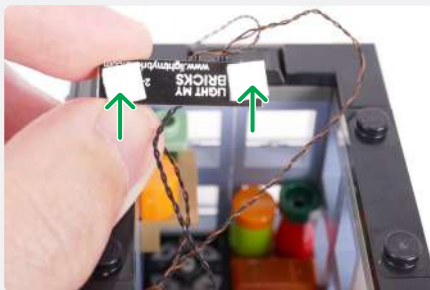


**83**



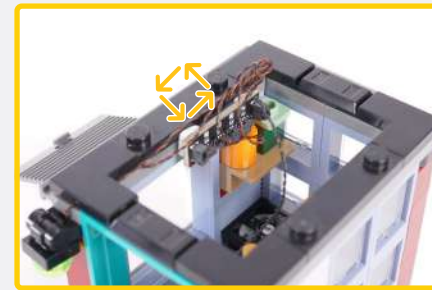


2x Adhesive Square



NOTE

Twist the Brown cables together



NOTE

Run the Connecting Cable through the crack between the shelves and window. Use a LEGO Removal Tool to assist in pushing the cable further in

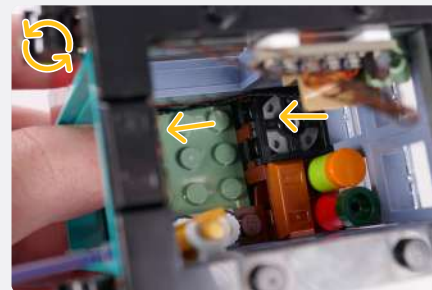
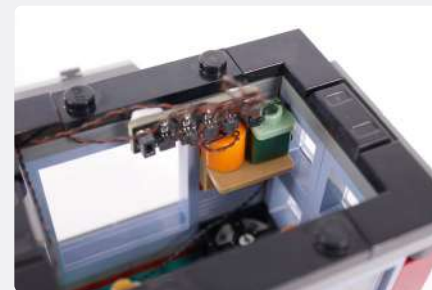
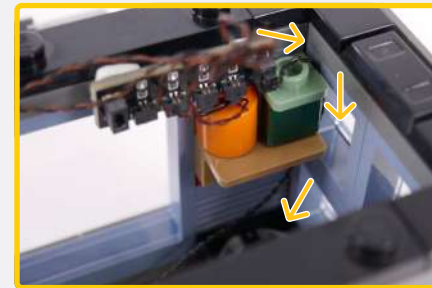
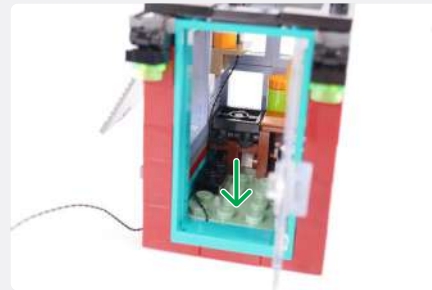
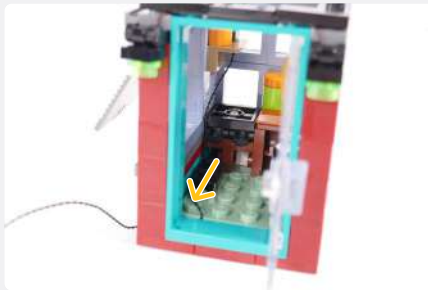
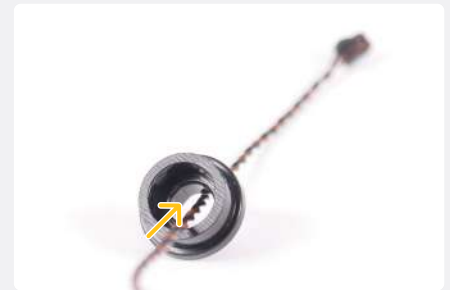


Plate 1x2 - Black





Plate, Round 1x1 with Open Stud - Black



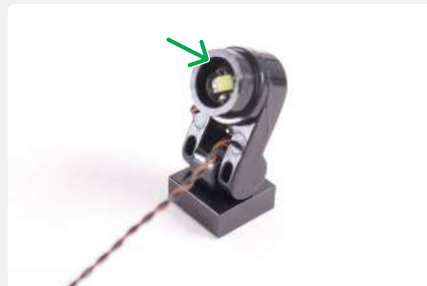
Plate, Round 1x1 with Bar Handle - Black



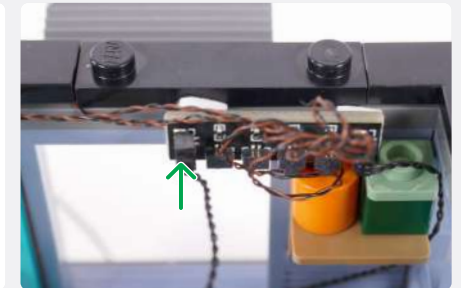
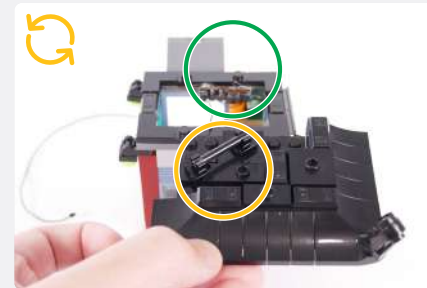
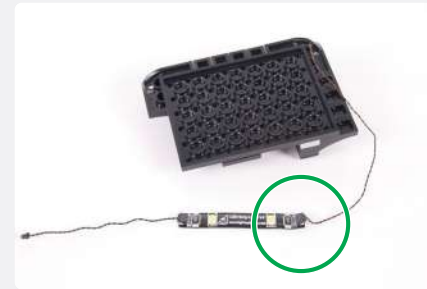
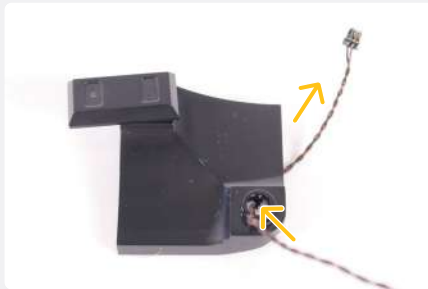
Plate, Round 1x1 with Bar Handle - Black



Tile, Modified 1x1 with Open O Clip - Black

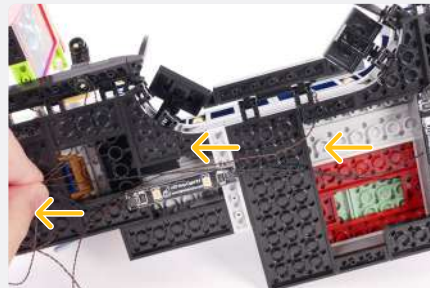
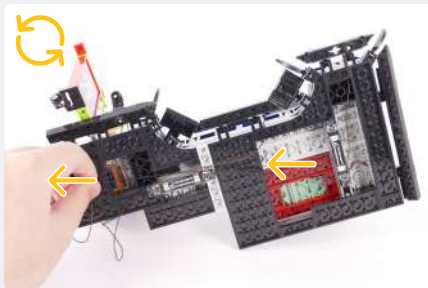
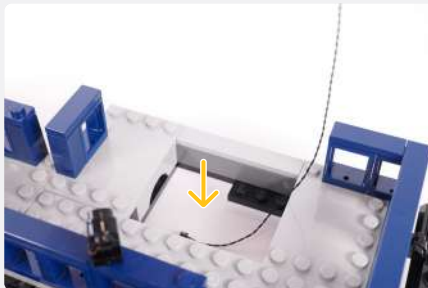
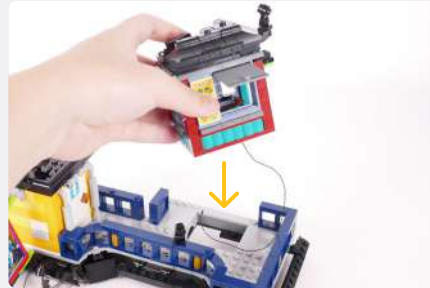


84



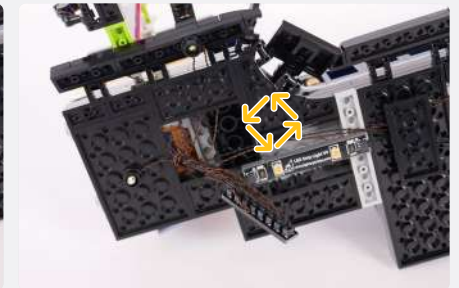
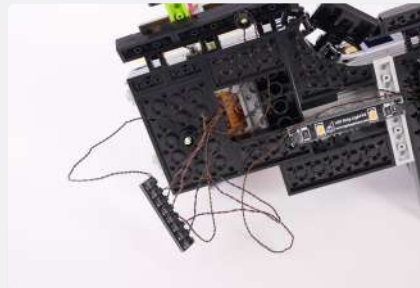
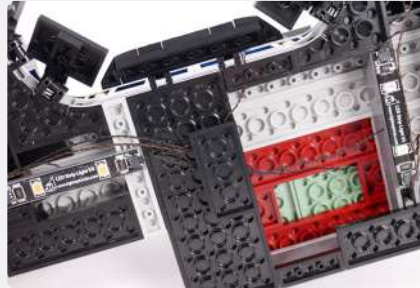
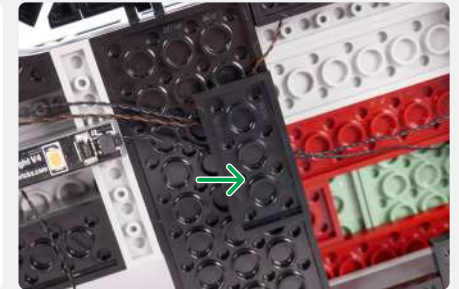
85

**86**



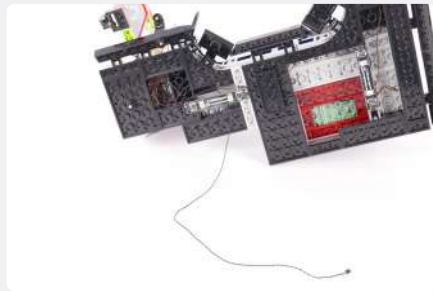
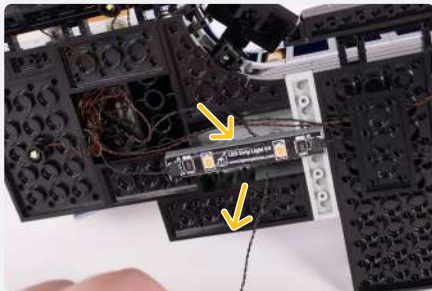
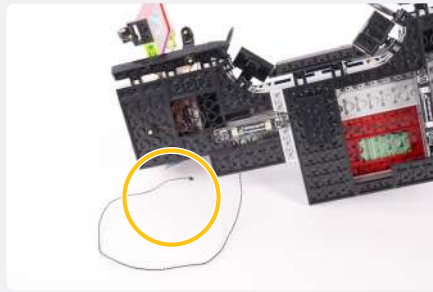
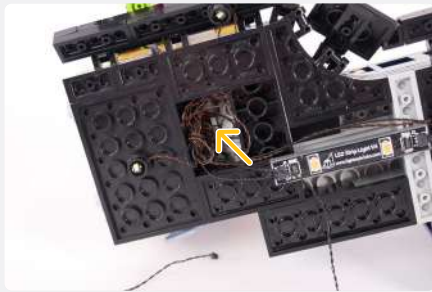
**87**


Plate 2x4 - Black



30cm Connecting Cable






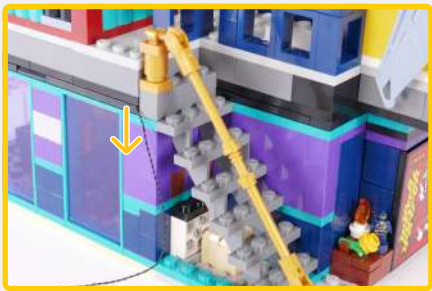
 **NOTE**  
 Push the Connecting Cable from the Strip Light Upwards like shown. This will allow this section to reconnect

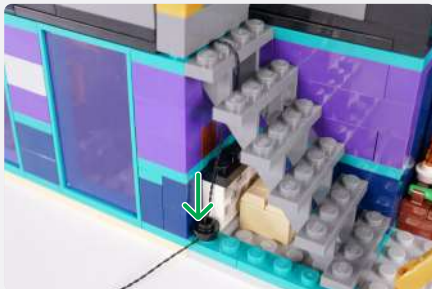
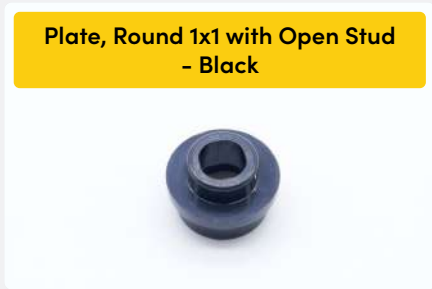
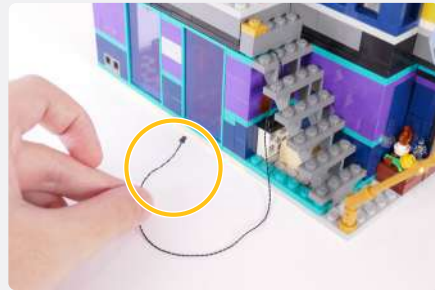
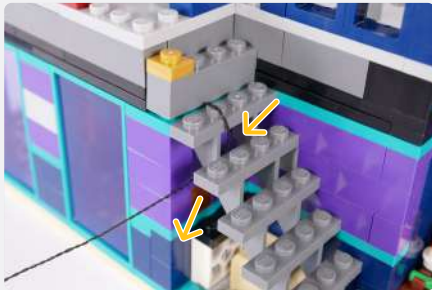
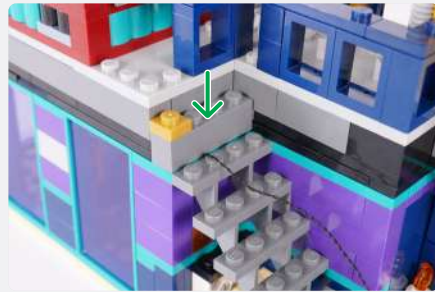


**88**



 **NOTE**  
 Run the loose 30cm Connecting Cable out from the following area






**89**



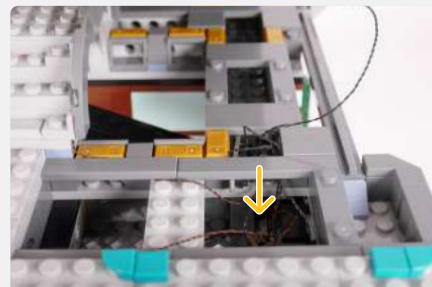
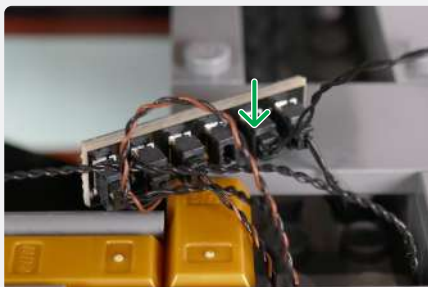
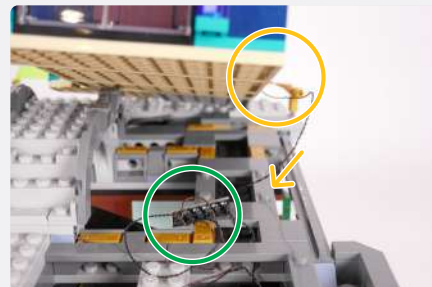


90

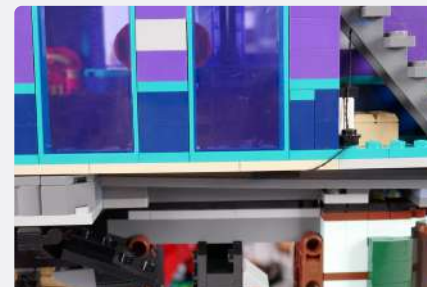


 **NOTE**

Carefully rest the Arcade level as shown



**Plate 1x2 - Black**

91



NOTE

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



! 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.



92

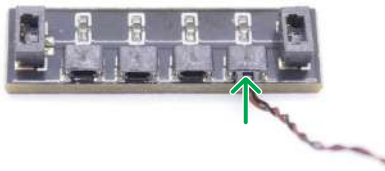


93

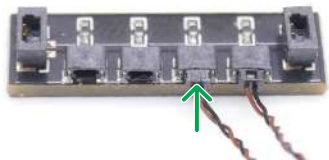
4-Port Micro Expansion Board



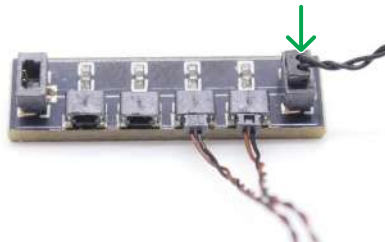
White 15cm Micro Bit Light



White 15cm Micro Bit Light



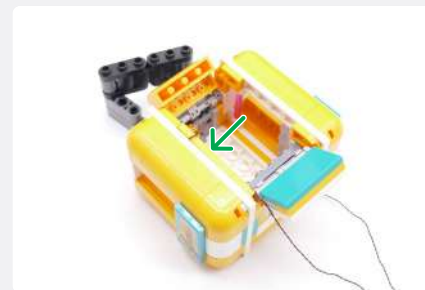
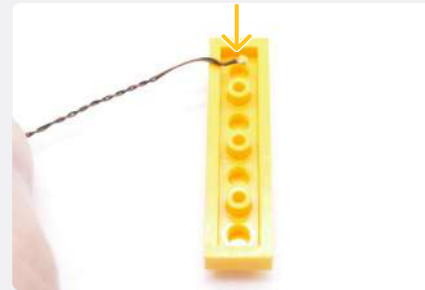
5cm Connecting Cable

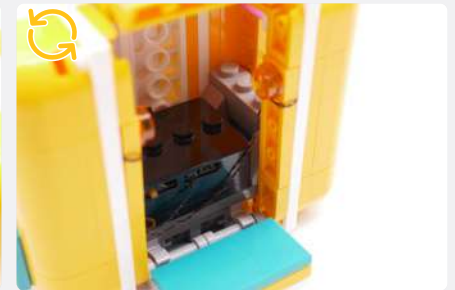
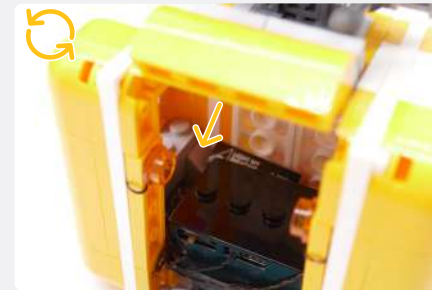
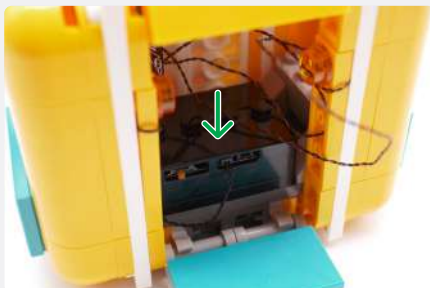
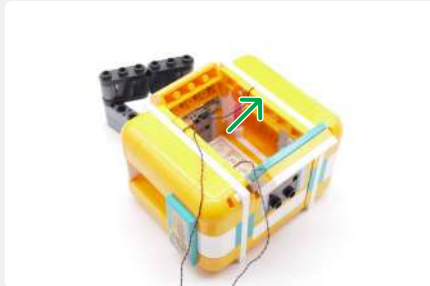
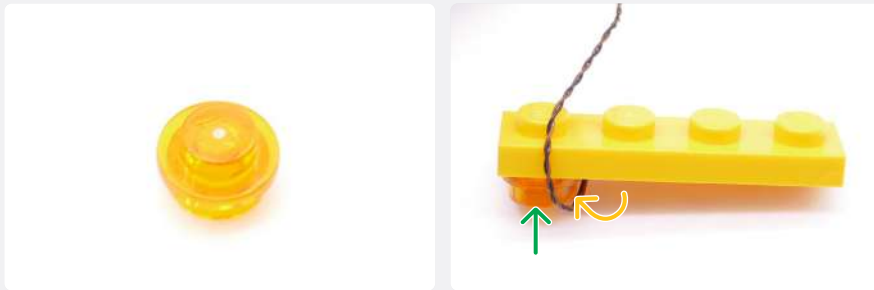


Power Brick



94





**95**





**NOTE**

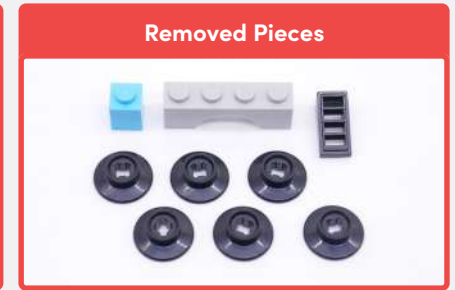
Connect to a 5V USB Power Bank, 5V USB Wall Adaptor, or USB to AA Battery Pack (sold separately)



**!** 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**

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



## FINAL PRODUCT

This finally completes installation of the Light My Bricks

LEGO® NINJAGO City Markets 71799 Light Kit.





## 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.**

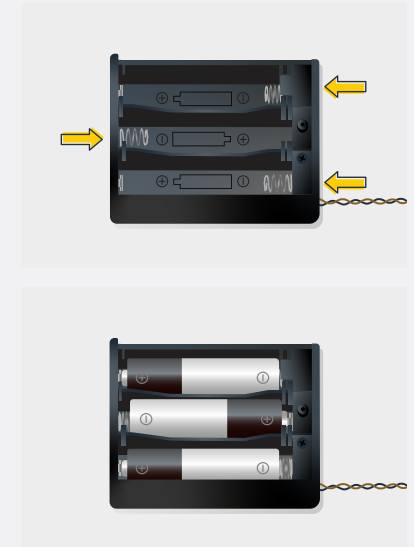
**If the batteries have no power, replace the batteries.**

**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

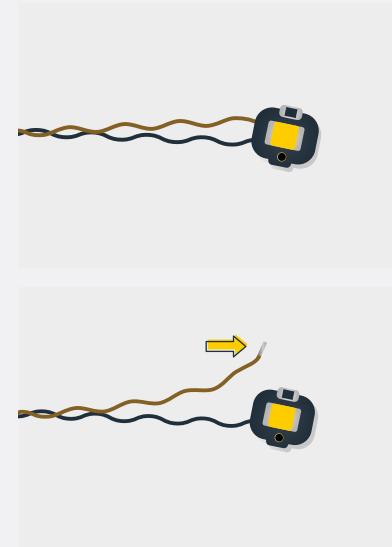
## Check Your Wires

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.



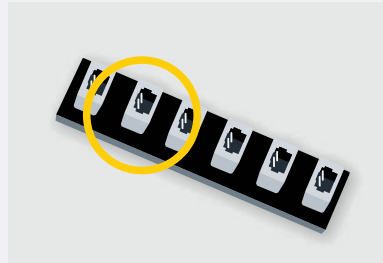
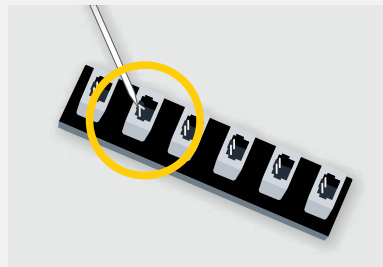
## Troubleshooting

### 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.

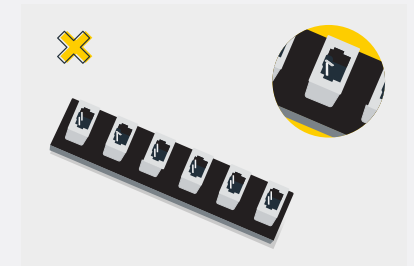
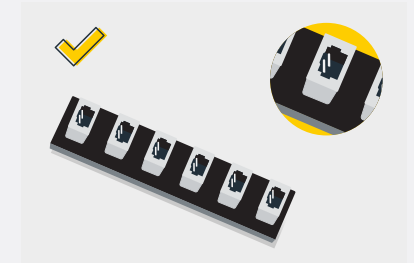
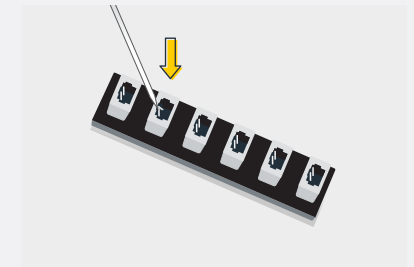
Not only will a light connected to the damaged port not work, but if the pins inside the port are bent to a point they are touching each other, this can result in all other lights in the system to stop working. This is a short circuit.



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)