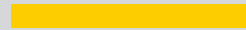




**LIGHT<sup>MY</sup>  
BRICKS**



**LEGO® GRINGOTTS WIZARDING BANK  
COLLECTOR'S EDITION #76417 LIGHT KIT**

**PART 1**

**INSTALLATION GUIDE**

# Light My Bricks



## LEGO® GRINGOTTS WIZARDING BANK COLLECTOR'S EDITION 76417 INSTALLATION GUIDE

Hi There!

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

Gringotts Wizarding Bank Collector's Edition 76417 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



- 24x White 30cm Bit Light \*
- 6x Cool White 30cm Bit Light
- 6x White 15cm Bit Light
- 2x Cool White 15cm Bit Light
- 3x White 15cm Large Bit Light
- 1x Orange 30cm Large Bit Light
- 1x Light Blue 30cm Bit Light
- 1x Yellow 30cm Bit Light
- 1x Red 30cm Bit Light

### Connecting Cables



- 4x 5cm Connecting Cable
- 5x 15cm Connecting Cable
- 5x 30cm Connecting Cable
- 3x 50cm Connecting Cable \*

### USB Power Cable



- 1x USB Power Cable
- 1x Power Brick (requires 2x CR2025 batteries)  
(Power Source not Included)

### Mixed Components 1



- 4x 2-Port Expansion Board
- 6x 6-Port Expansion Board
- 4x 8-Port Expansion Board

### Mixed Components 2



- 1x Scary Flicker Effects Board
- 1x Flicker Effects Board
- 10x Adhesive Squares

### Mixed Components 3



- 2x Brick 1x2 - Black
- 1x Brick, Modified 1x1 with Stud on Side - Black
- 1x Cone 1x1 with Top Groove - Trans-Orange
- 3x Cone 1x1 Inverted with Bar - Black
- 1x Bracket 1x1 - 1x1 - Light Grey
- 1x Tile, Modified 1x1 with Open O Clip - Black
- 1x Brick, Round 2x2 with Axle Hole - Trans-Clear

\* Indicates components which include spares



## PACKAGE CONTENTS:

### Mixed Components 4



- 3x Minifigure, Plume Feather Triple Compact / Flame / Water - Trans-Orange
- 1x Arm Skeleton, Bent with Clips at 90 degrees (Vertical Grip) - Black
- 1x Arm Skeleton, Bent with Clips (Horizontal Grip) - Black
- 1x Bar 3L (Bar Arrow) - Black
- 1x Technic, Pin 1/2 without Friction Ridges - Light Bluish Gray
- 2x Plate, Round 2x2 with Rounded Bottom (Boat Stud) - Trans-Clear

### Mixed Components 5



- 5x Plate, Round 1x1 Open Stud - Gold
- 4x Plate, Round 1x1 Open Stud - Trans Orange
- 8x Plate, Round 1x1 Open Stud - Black
- 6x Plate, Round 1x1 Open Stud - White
- 2x Plate, Round 1x1 - Black
- 1x Plate, Round 1x1 - Trans Clear

### Mixed Components 6

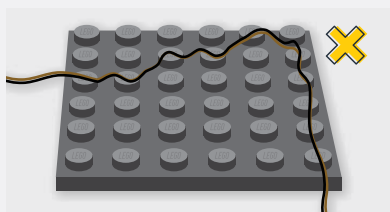
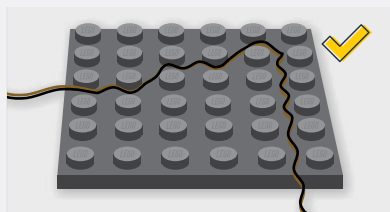


- 4x Tile 1x2 - Trans Clear
- 5x Plate 1x2 - Light Bluish Grey
- 2x Plate 1x1 - Black
- 2x Plate, Round 1x1 with Bar Handle - Black
- 2x Plate, Modified 1x1 with Open O Clip (Horizontal Grip) - Black

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Blueprint	10
Instructions	11
End of Part 1	70
Troubleshooting	71
Contact	75

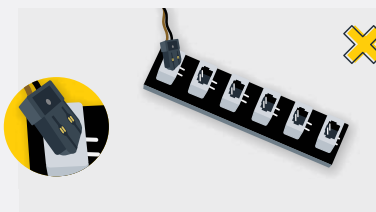
## Before You Begin



### 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.*

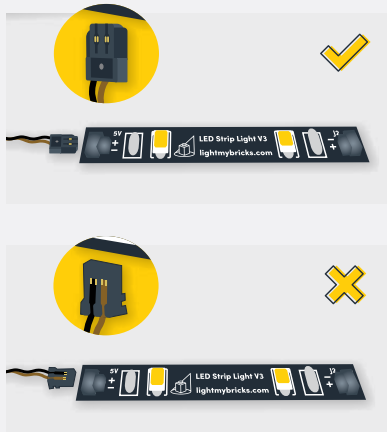


### Connecting Cable Connectors To Expansion Boards

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.



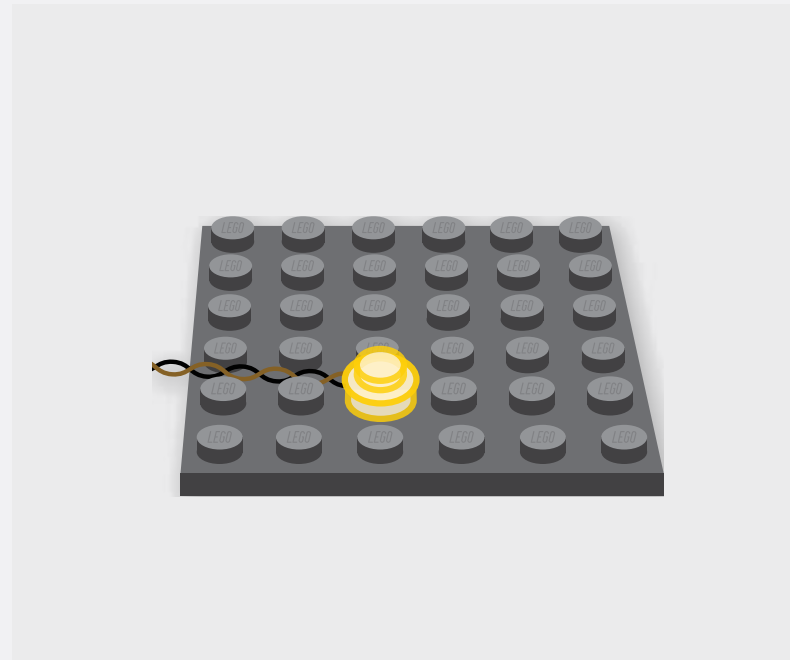
### Connecting Micro Cable Connectors To Micro Expansion Board Ports

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.

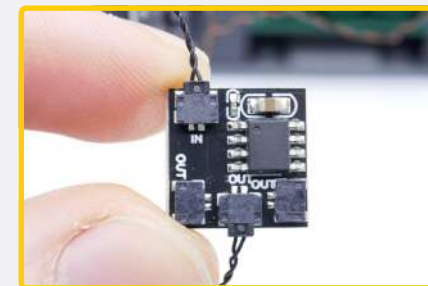
### Disconnect Note

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

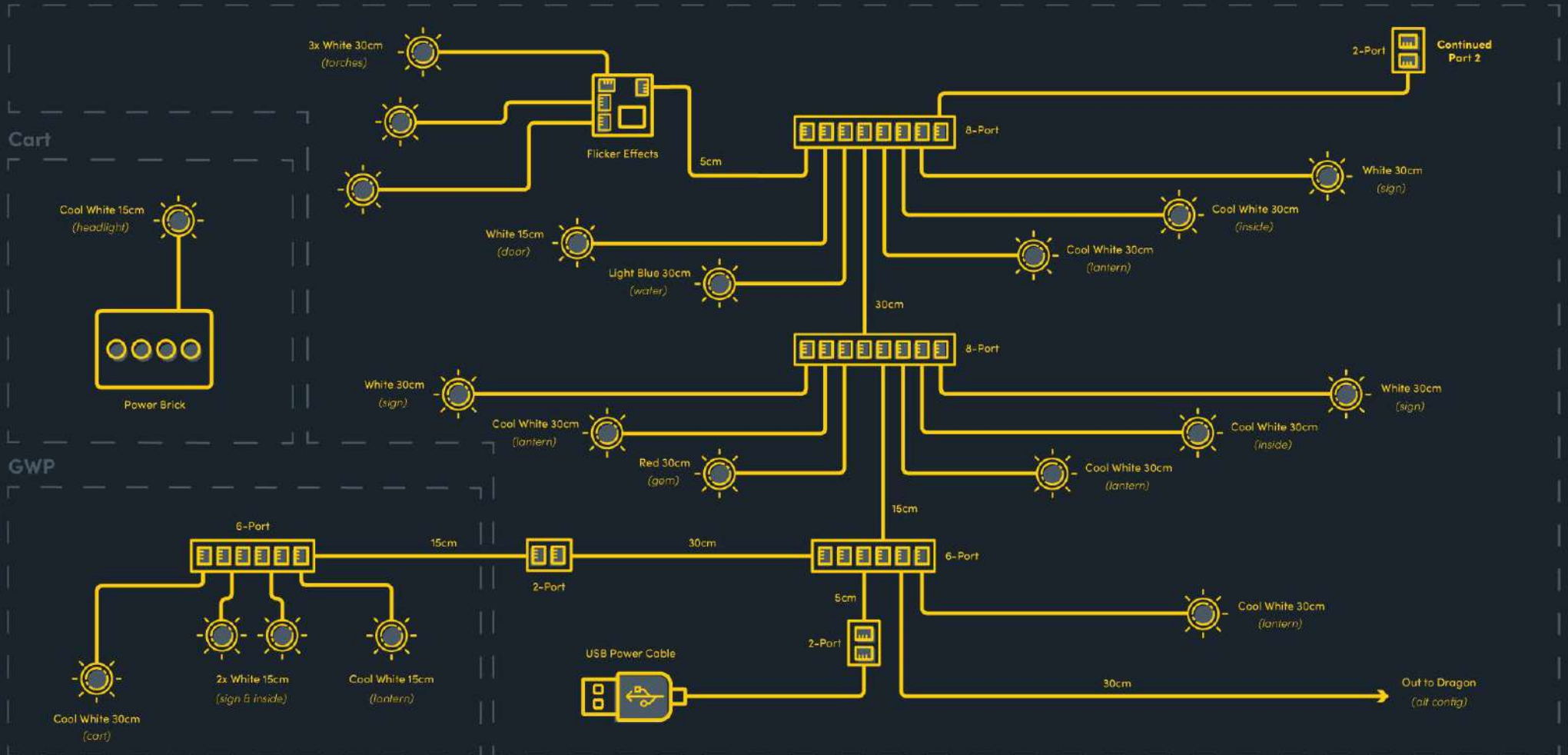
You should have these parts left over that were removed from the LEGO set





# BLUEPRINT

## Gringotts Vaults





## 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.

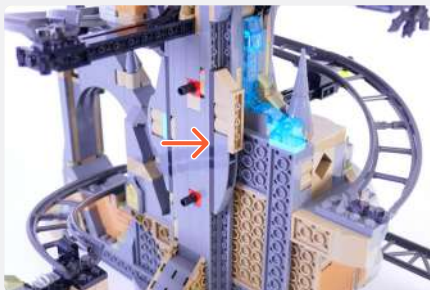
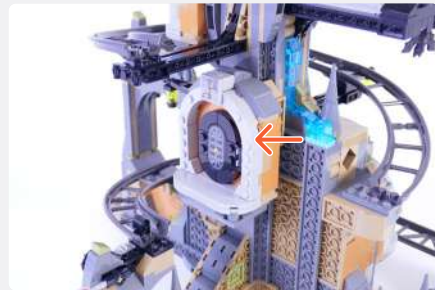
1




2



3



 **NOTE**

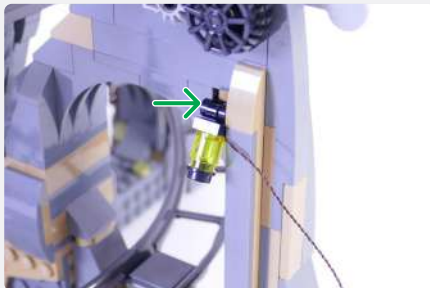
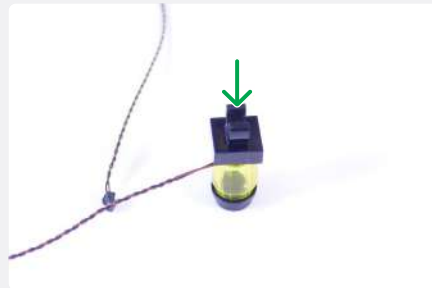
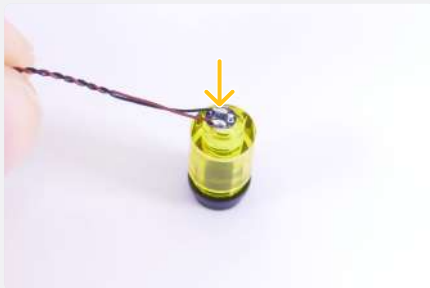
Use the LEGO Brick Separator Tool to remove difficult pieces.



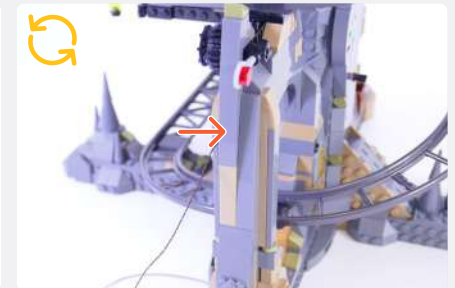
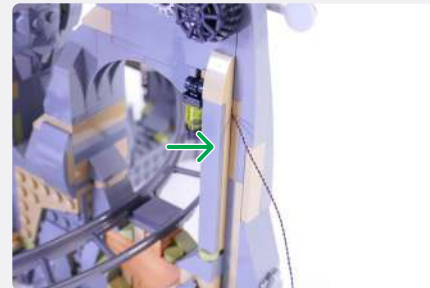
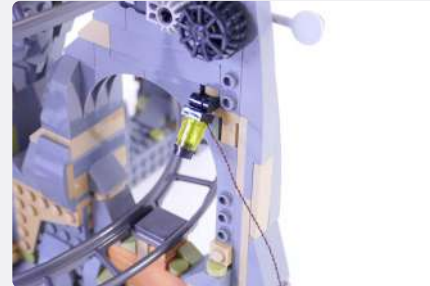
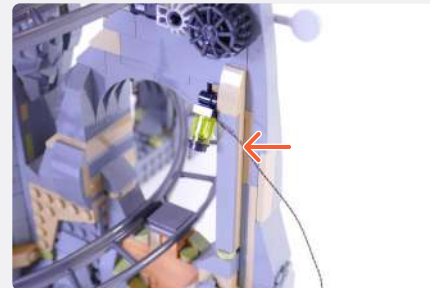
**4**



Cool White 30cm Bit Light

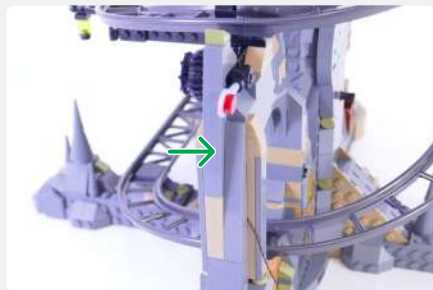
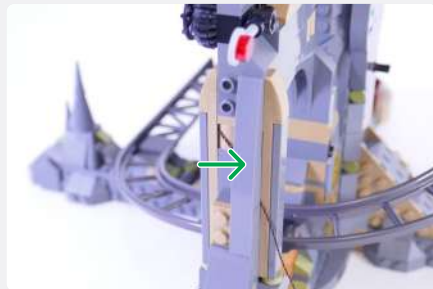
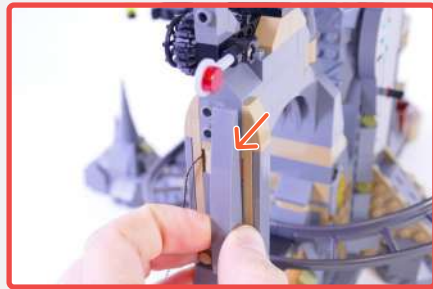


**5**

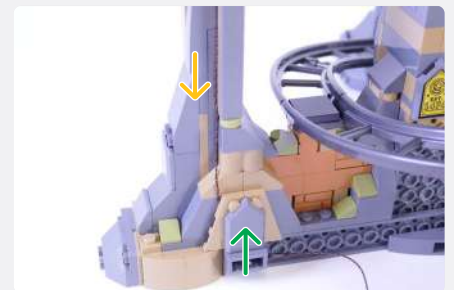
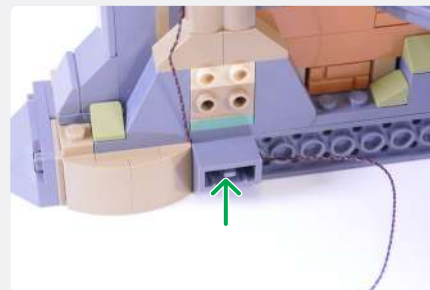
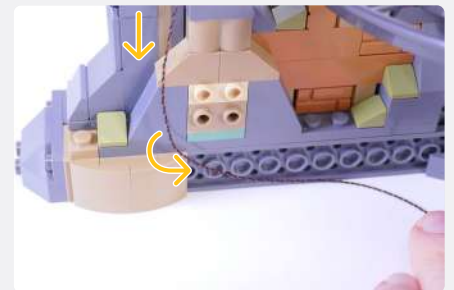
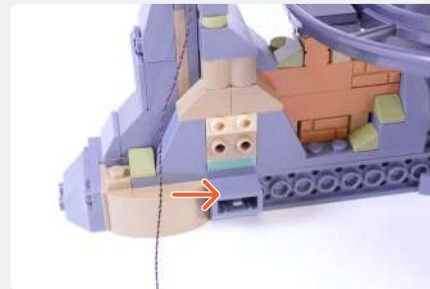
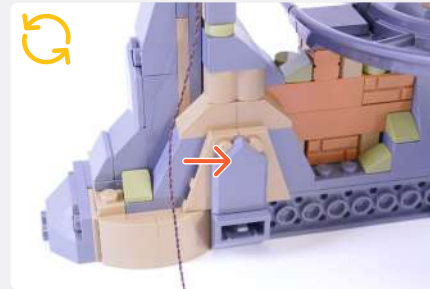


**NOTE**

Partially remove the grey slope to allow the cable to go underneath.

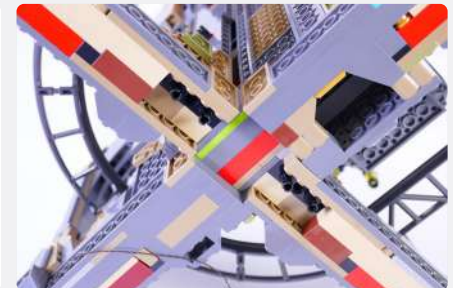
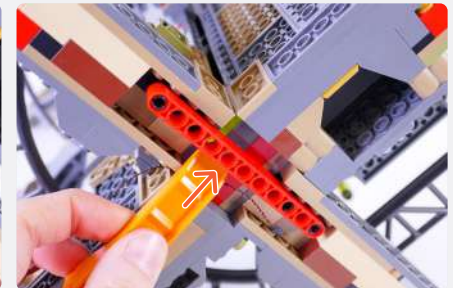
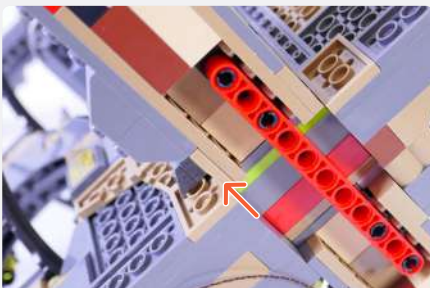
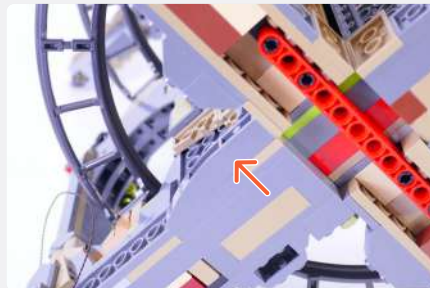


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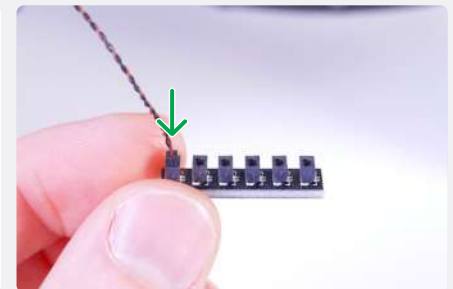




**7**



**6-Port Expansion Board**



8

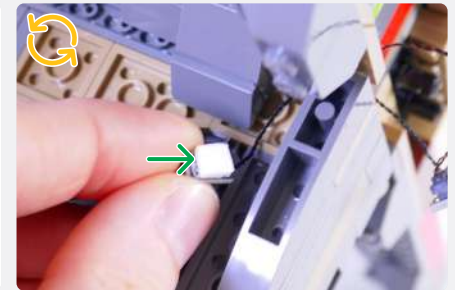
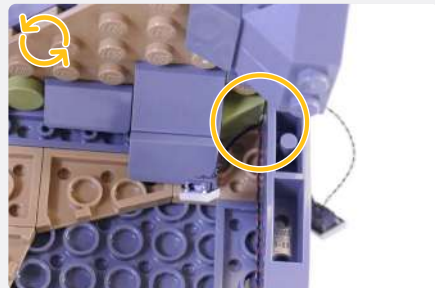
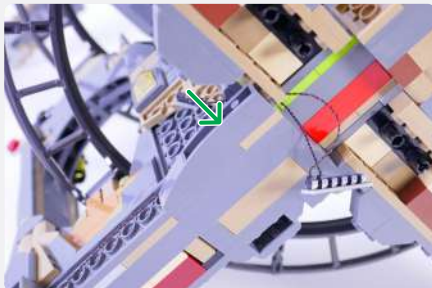
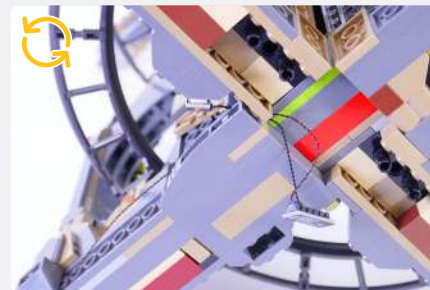
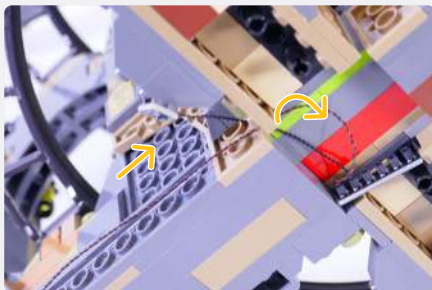
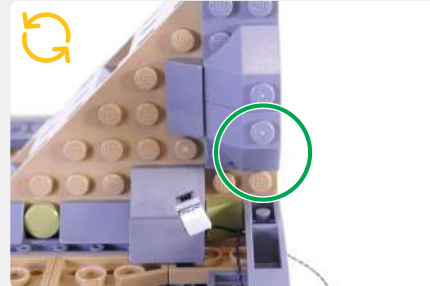
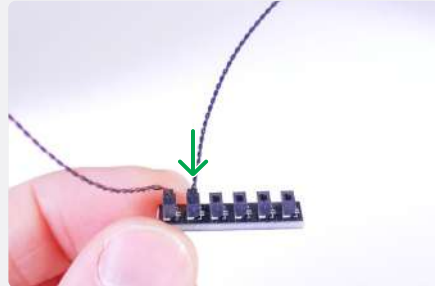
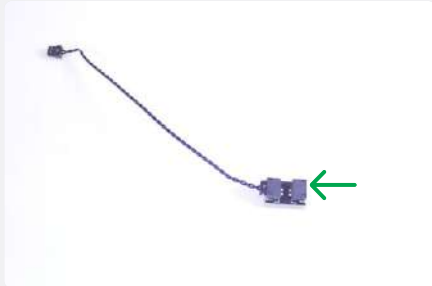
2-Port Expansion Board



5cm Connecting Cable



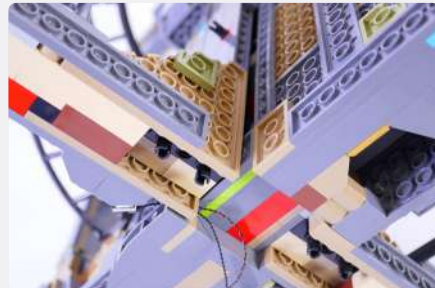
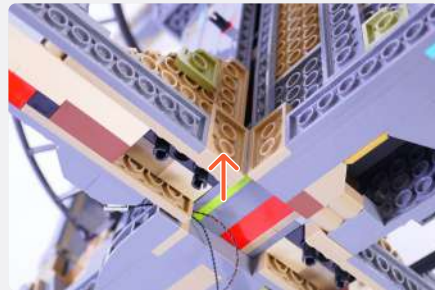
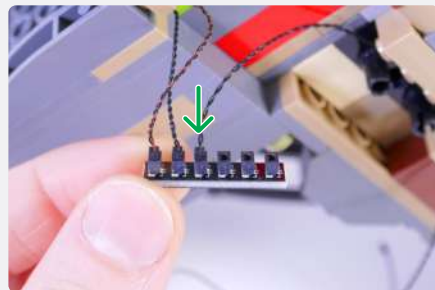
Adhesive Square



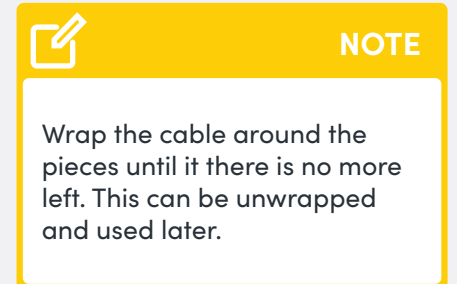
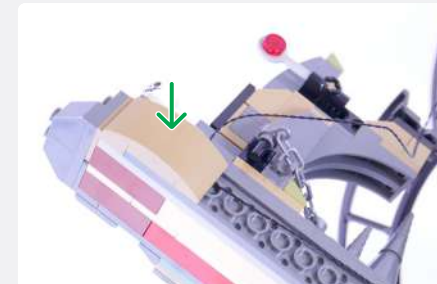
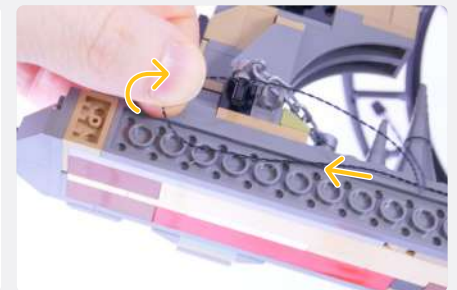
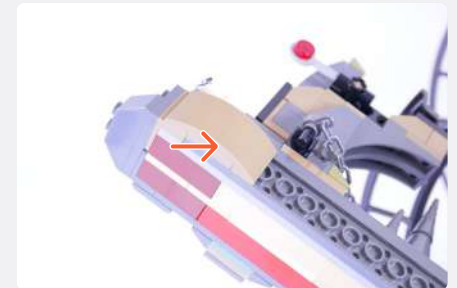
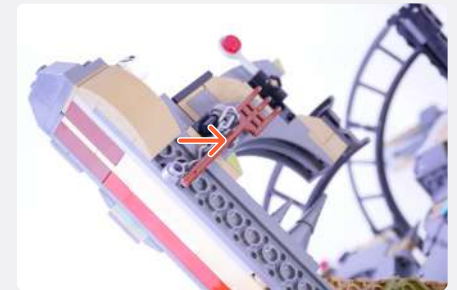
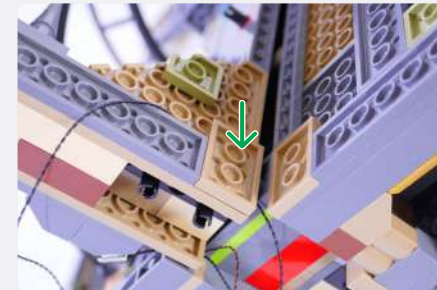
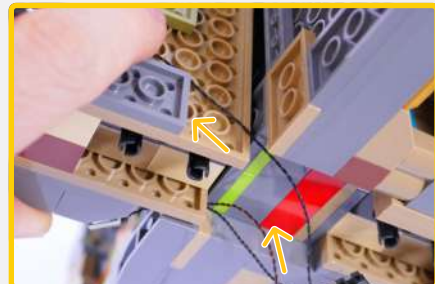
**9**

**NOTE**

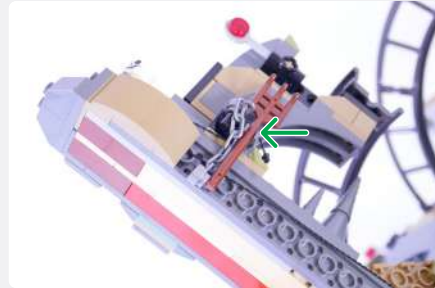
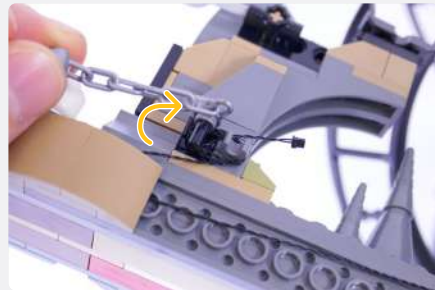
This Step installs an optional 30cm Connecting Cable for the Dragon to be powered from the base section.


**30cm Connecting Cable**

**NOTE**

Leave at least 5cm of length from the Expansion Board when connecting the plate.


**NOTE**

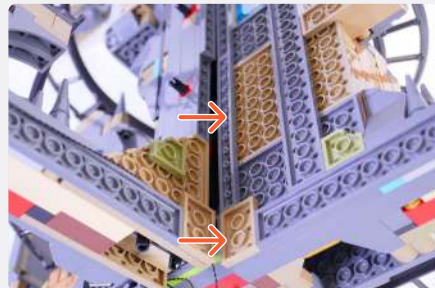
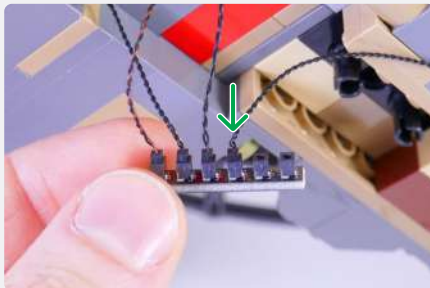
Wrap the cable around the pieces until there is no more left. This can be unwrapped and used later.



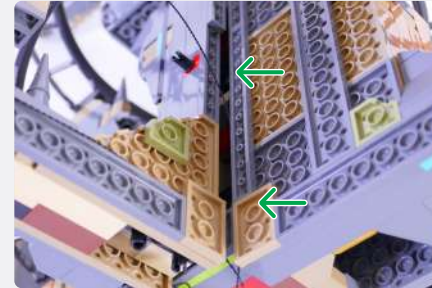
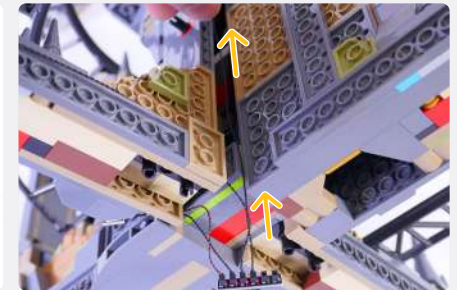
10



15cm Connecting Cable



11



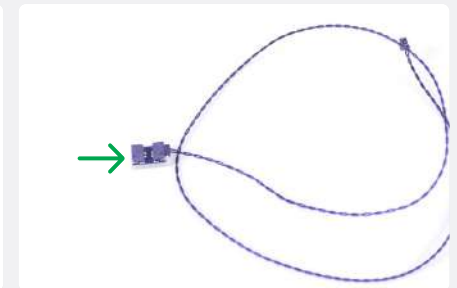
NOTE

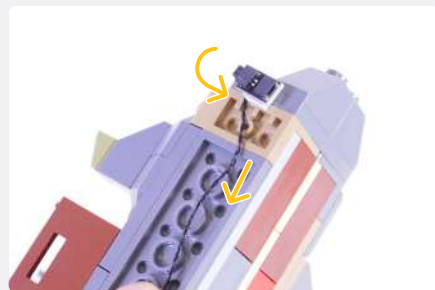
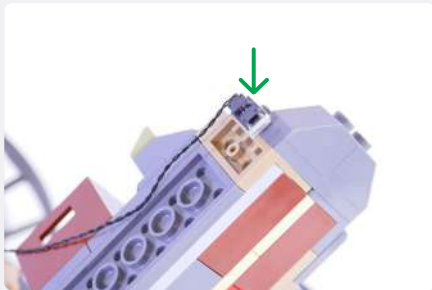
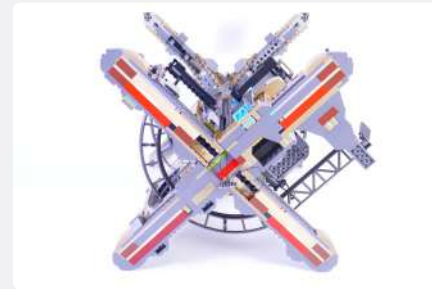
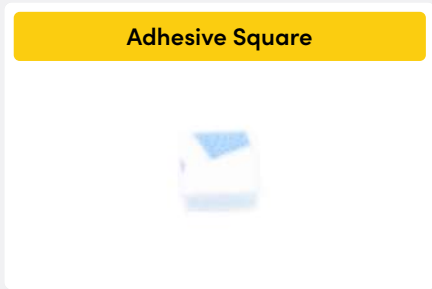
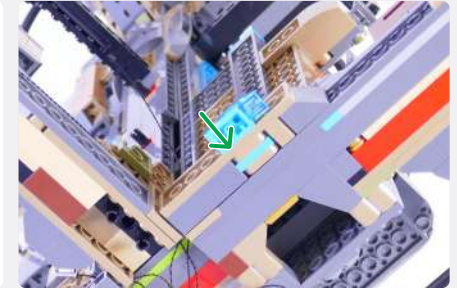
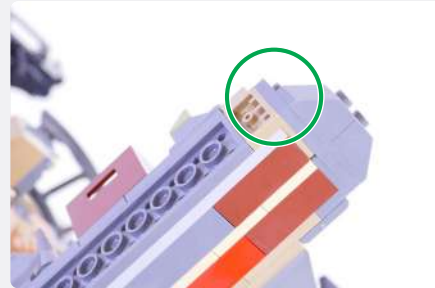
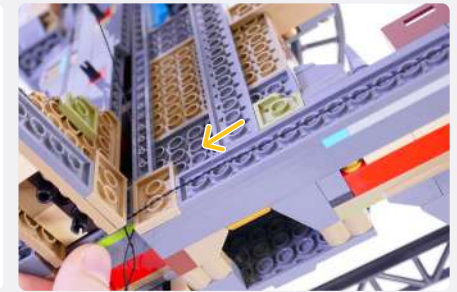
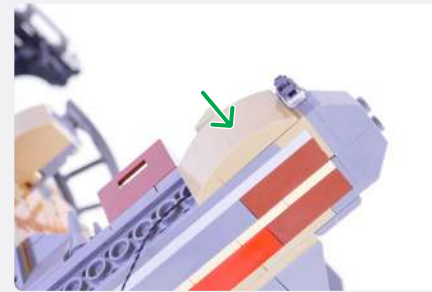
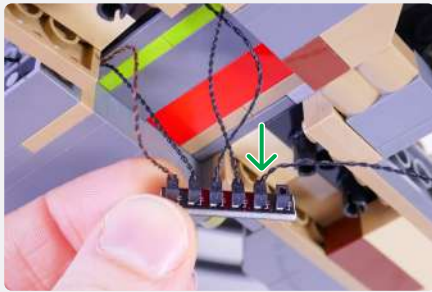
This Step installs an optional 30cm Connecting Cable and 2-Port Expansion Board for the companion LEGO GWP set.

2-Port Expansion Board

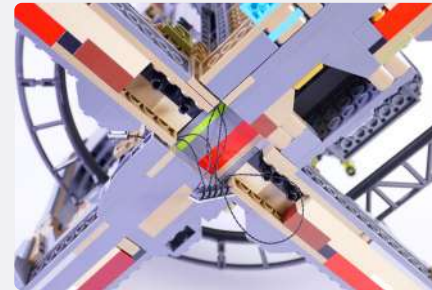


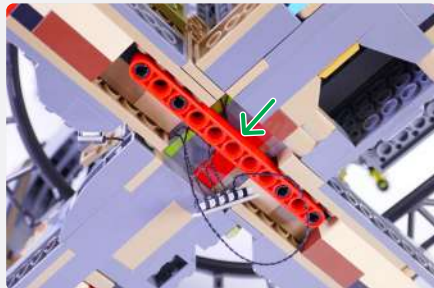
30cm Connecting Cable



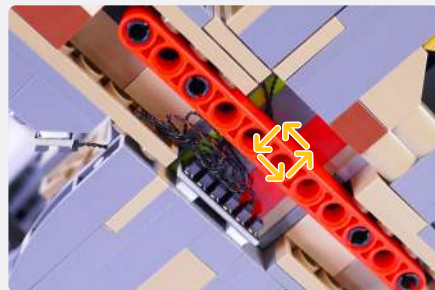
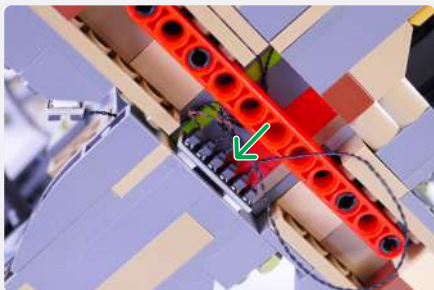
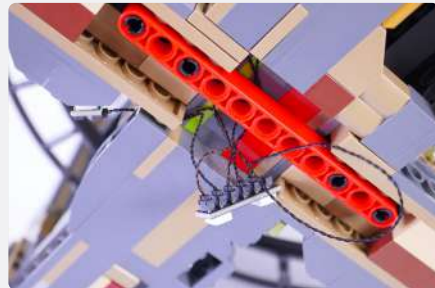
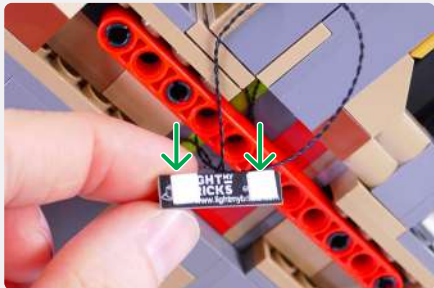


12





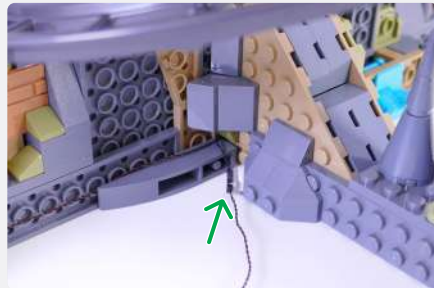
**2x Adhesive Square**



**13**



**USB Power Cable**



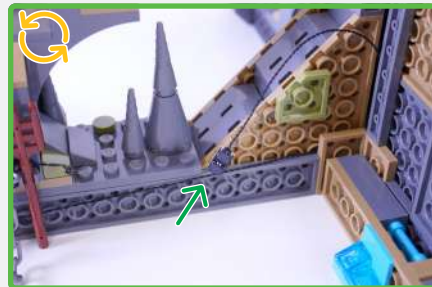
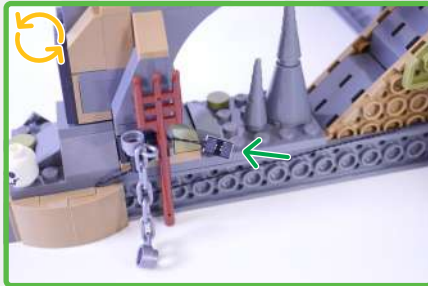
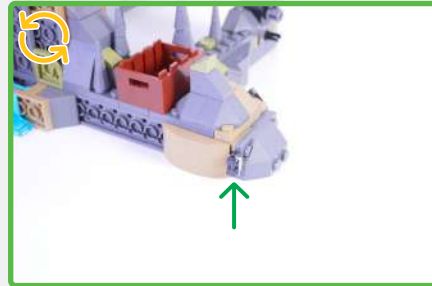
**NOTE**

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




**NOTE**

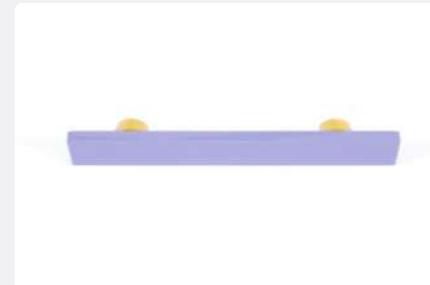
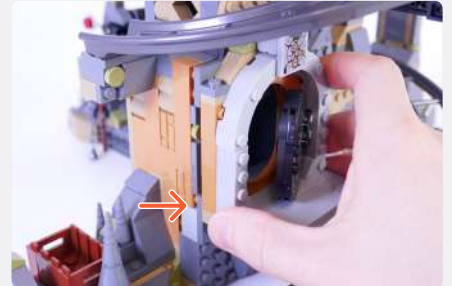
To test if the other cables installed are working, remove the USB Power Cable and connect it to the other cables, add a 2-Port Expansion Board on the connecting cables, remove when done.


**NOTE**

If the installed bit light in the lantern turns on when connected to power, then the cables are working.



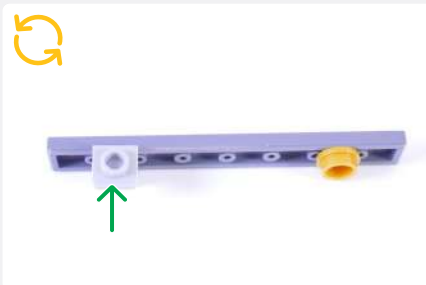
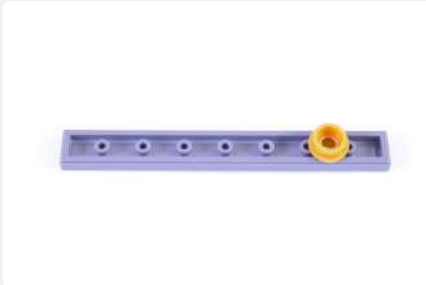
! If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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

**14**


**15**



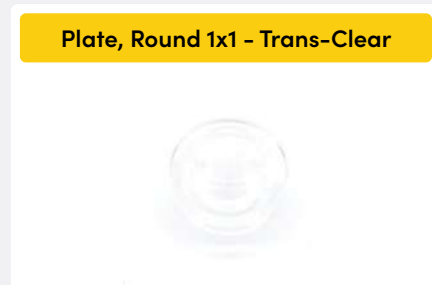
**Bracket 1x1 - 1x1 - Light Bluish Gray**



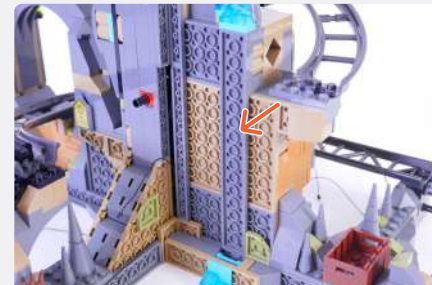
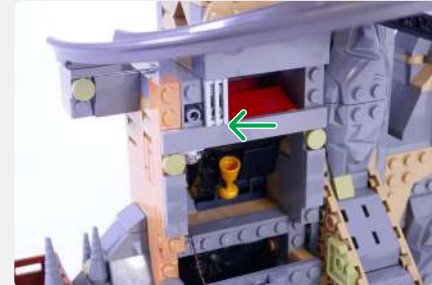
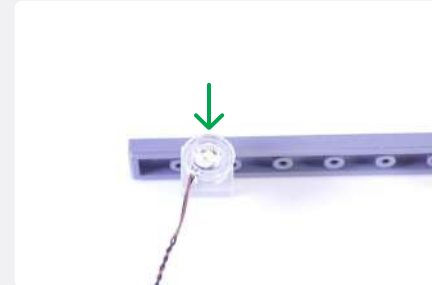
**Cool White 30cm Bit Light**



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

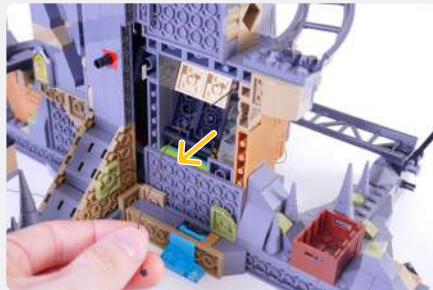
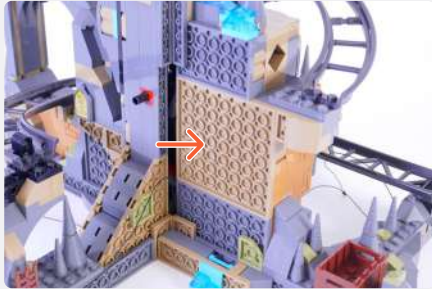
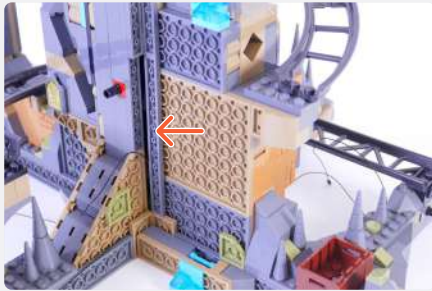


**16**





**17**

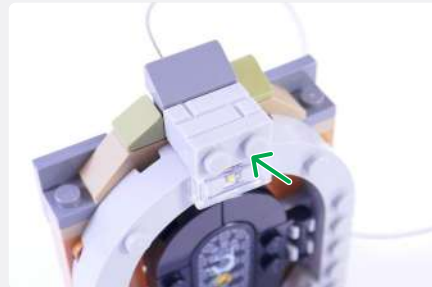
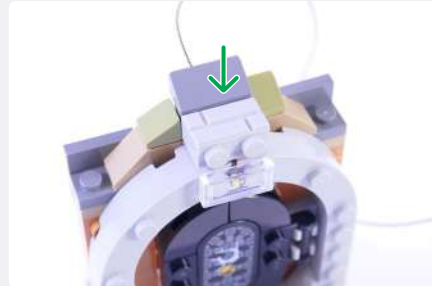


**White 30cm Bit Light**

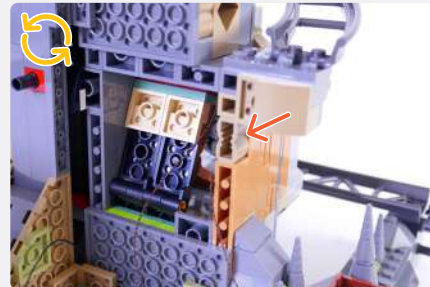
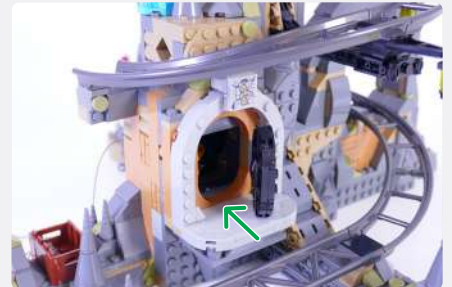
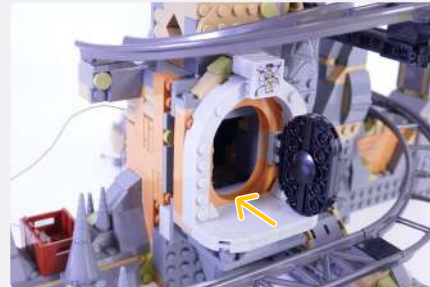
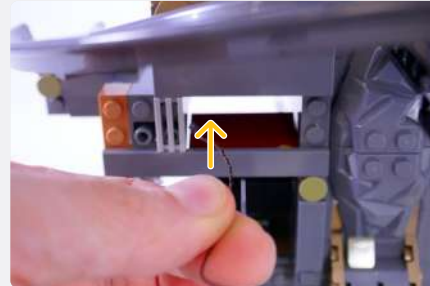
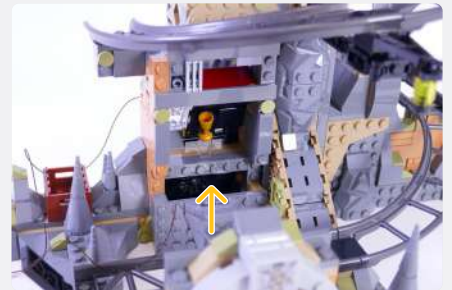


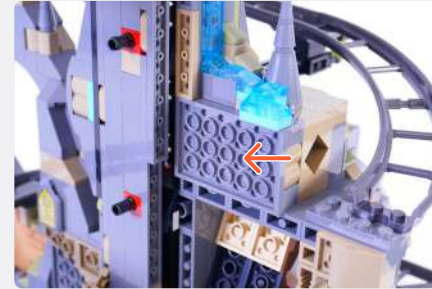
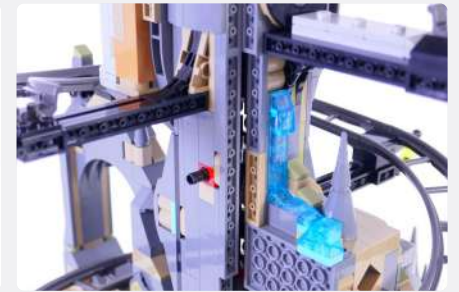
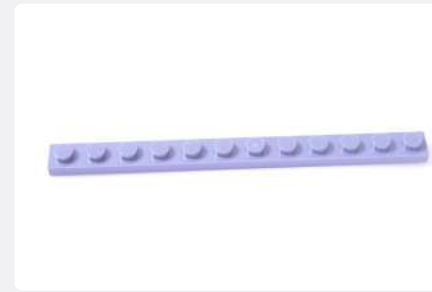
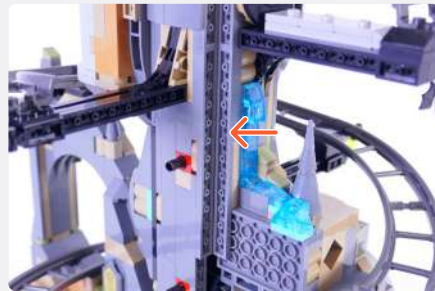
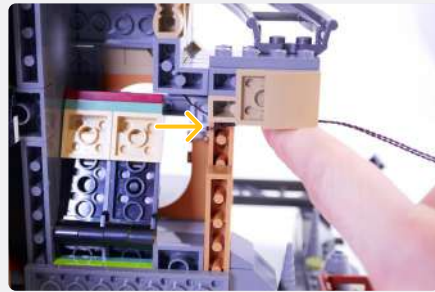
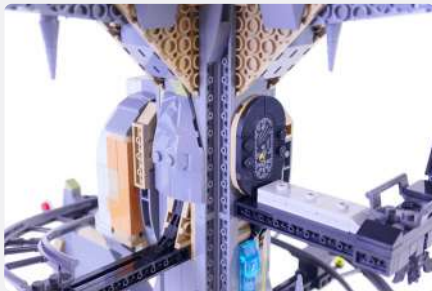
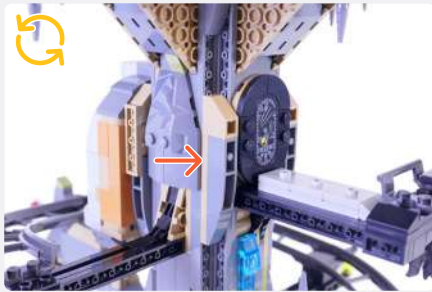
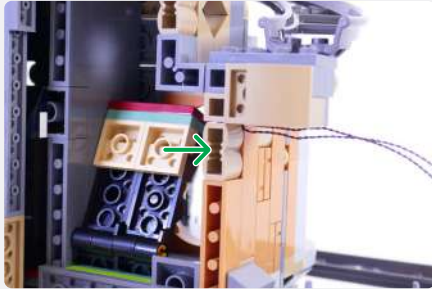
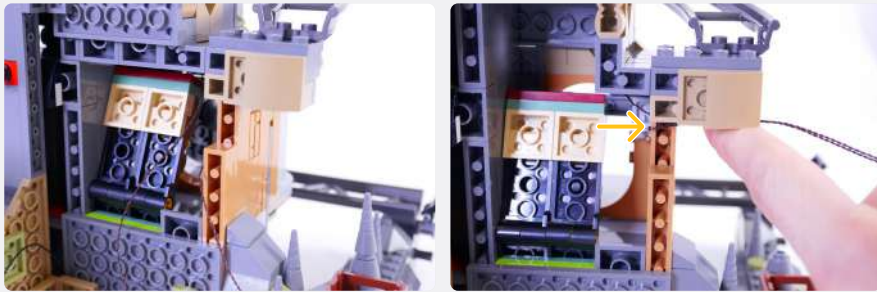
**Tile 1x2 with Groove - Trans-Clear**





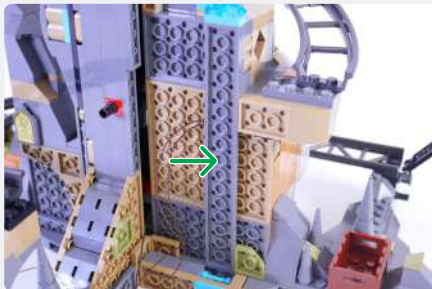
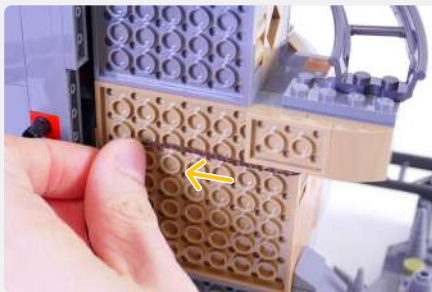
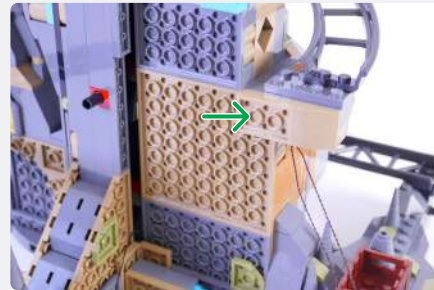
**18**



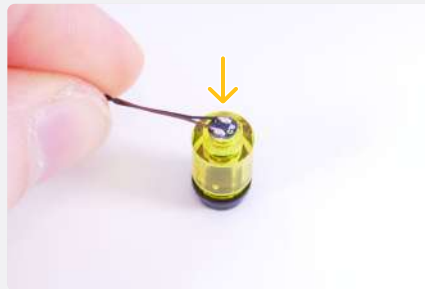


19

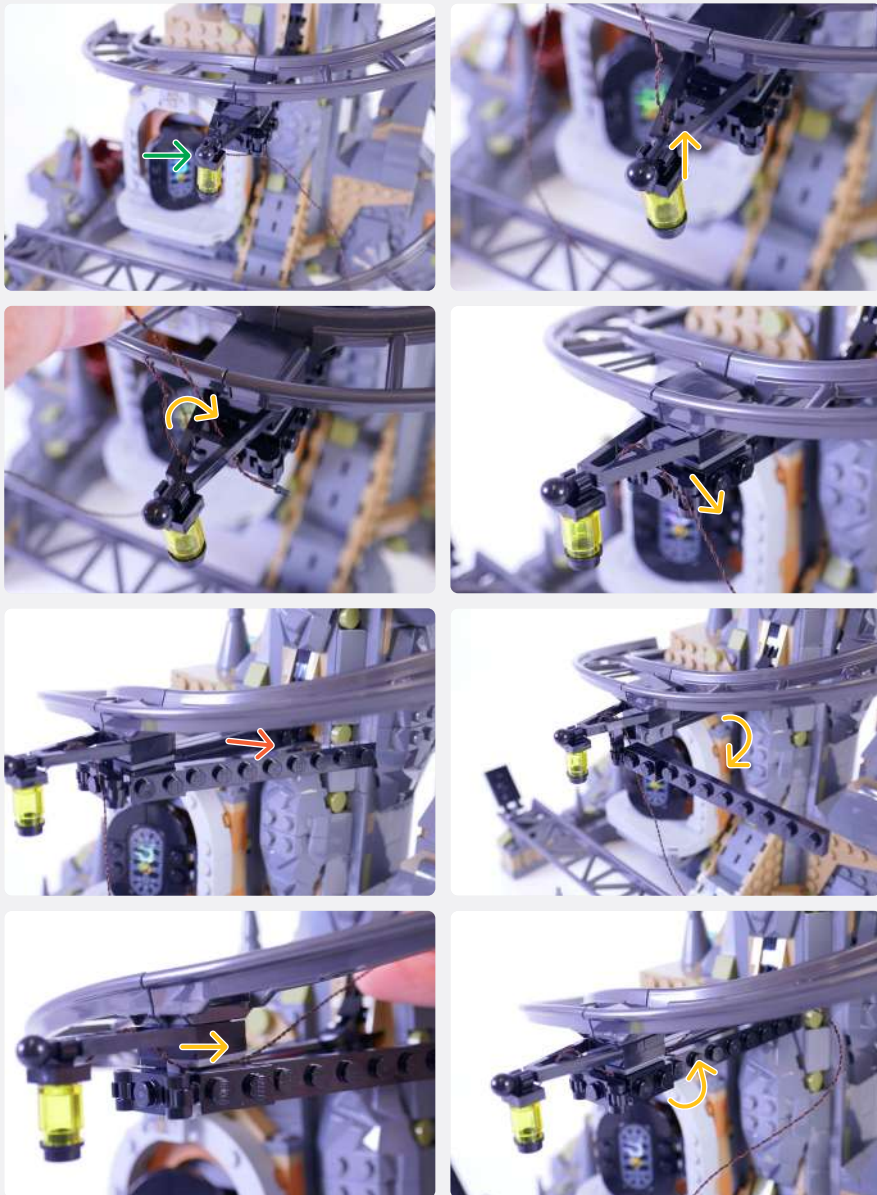
20



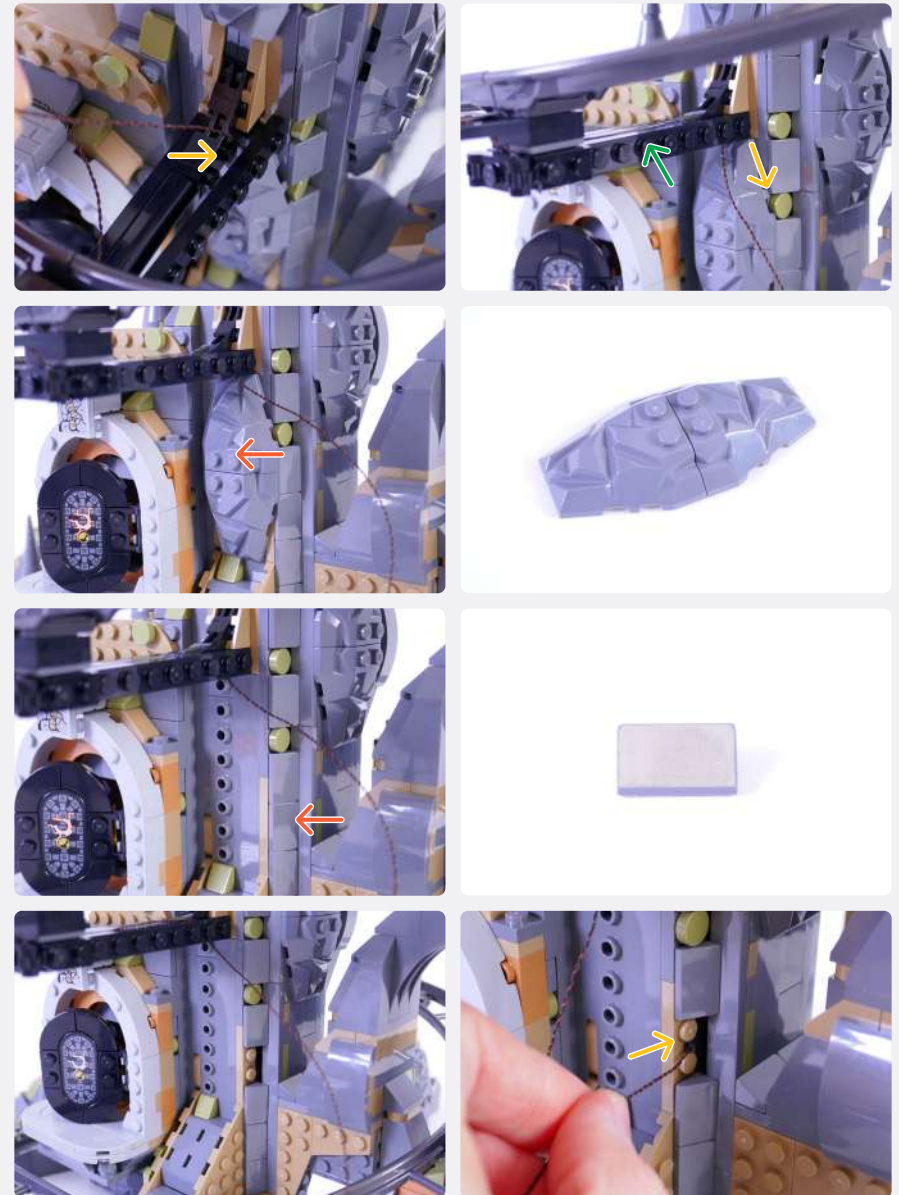
21



**22**

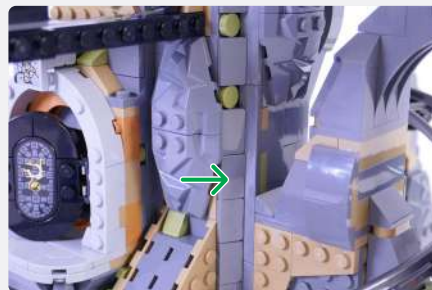
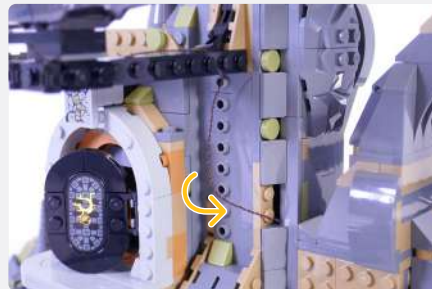


**23**



**NOTE**

Route the cable through the hole and out the rear side when the other cables are.



**24**

**NOTE**

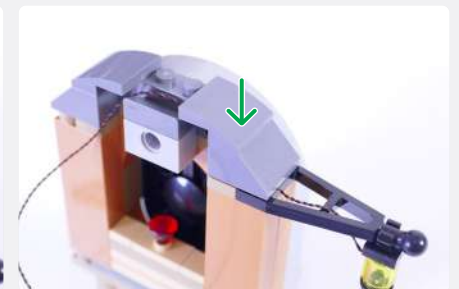
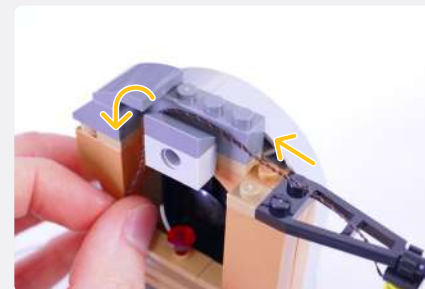
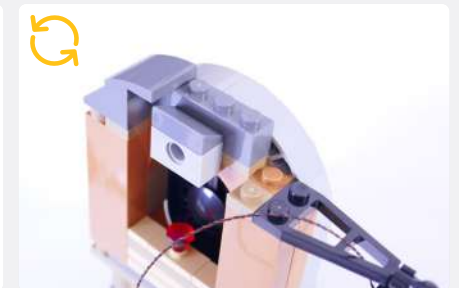
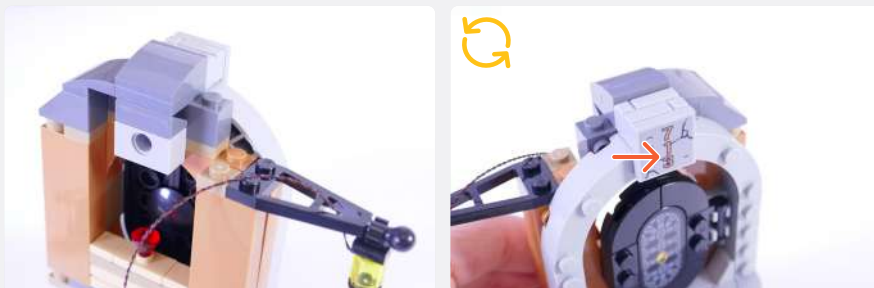
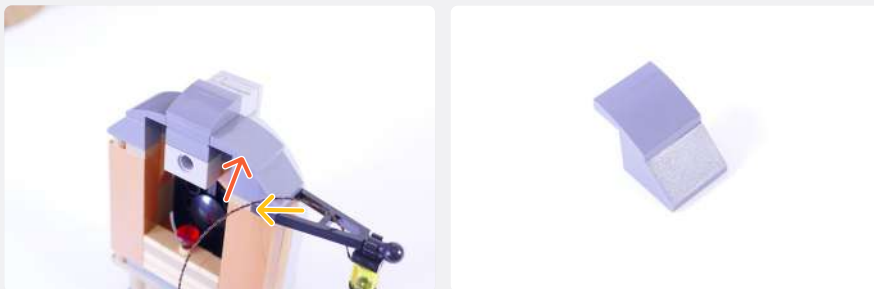
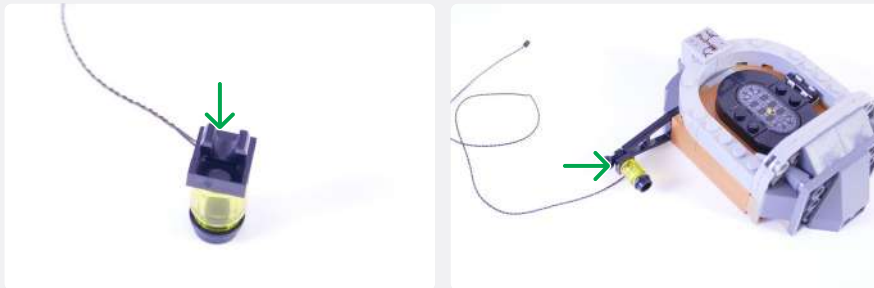
Take "Vault 713" from Step 2 to use in the following steps.



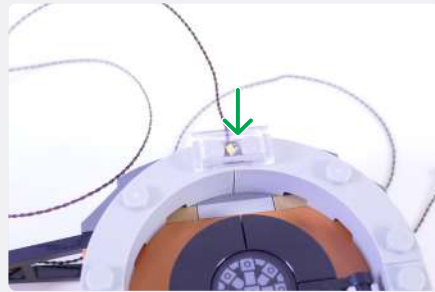
**Cool White 30cm Bit Light**



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Tile 1x2 with Groove - Trans-Clear



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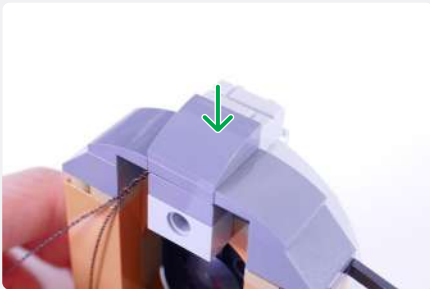
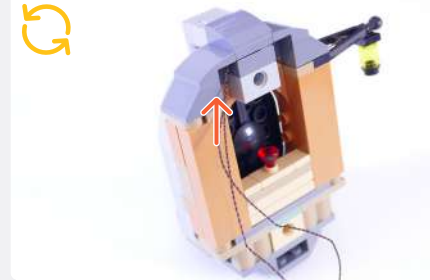
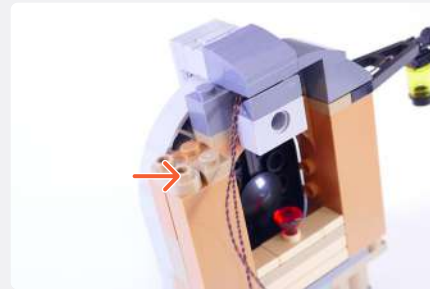
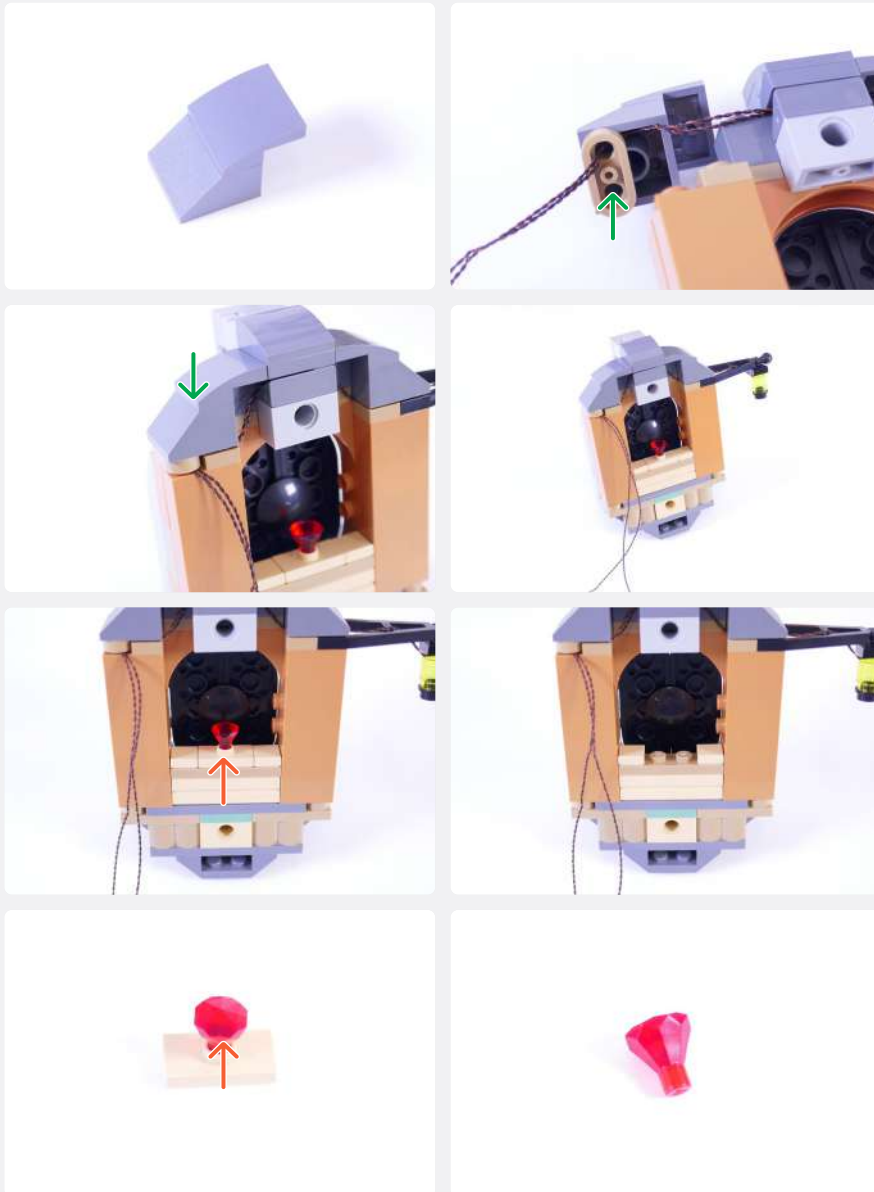


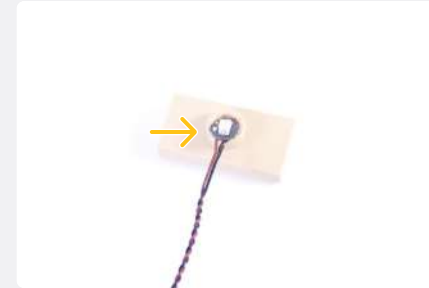
Plate 1x2 - Light Bluish Gray







Red 30cm Bit Light

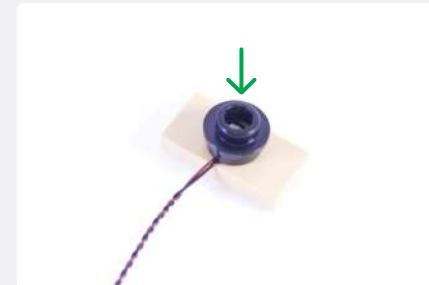


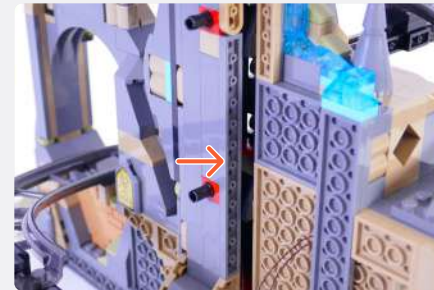
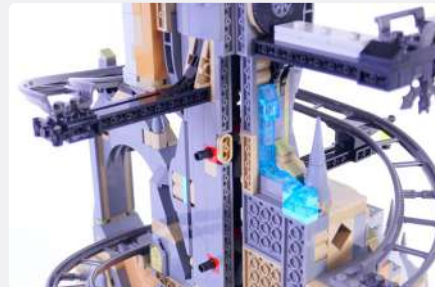
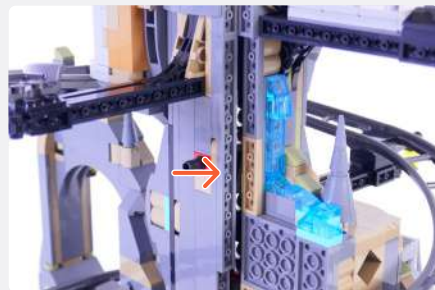
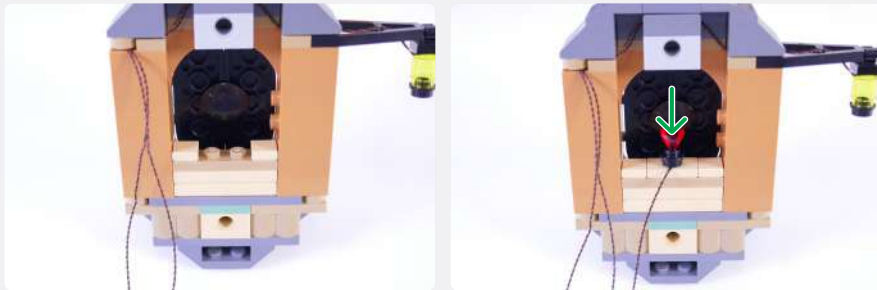
NOTE

Choose either gold or black open stud to use. Gold will glow more but the gem will not be as defined, black will make the gem glow more intensely.



Plate, Round 1x1 with Open Stud - Black

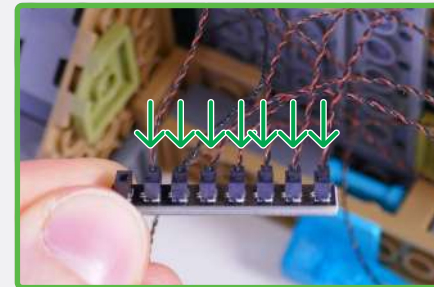




8-Port Expansion Board



**NOTE**  
Connect all the loose cables into a new 8-Port Expansion Board.

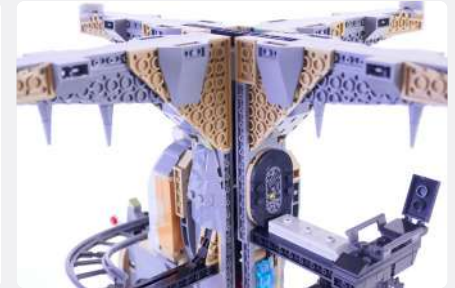
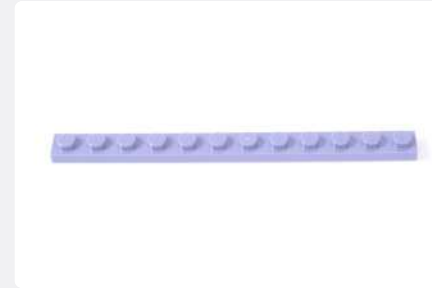
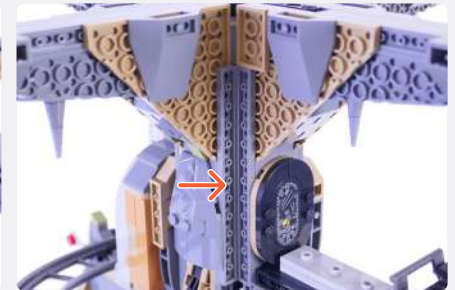
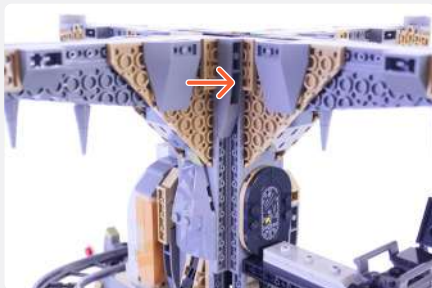
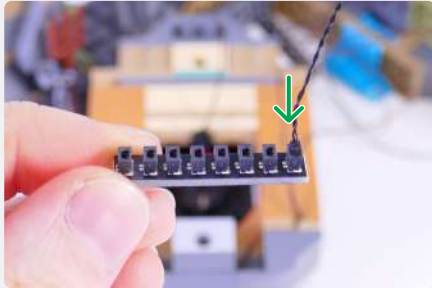
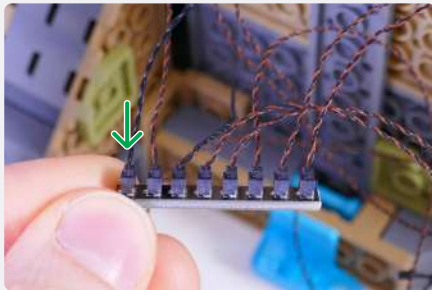


30cm Connecting Cable



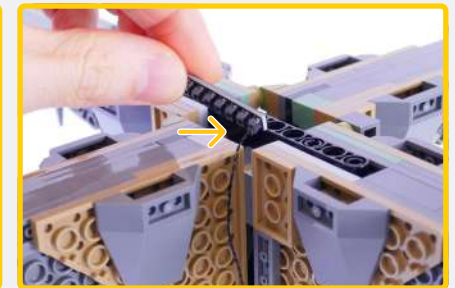
29

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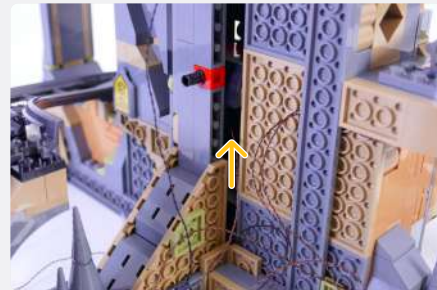
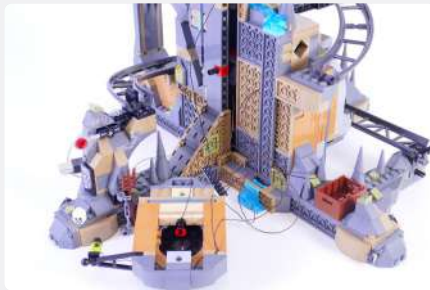



**NOTE**

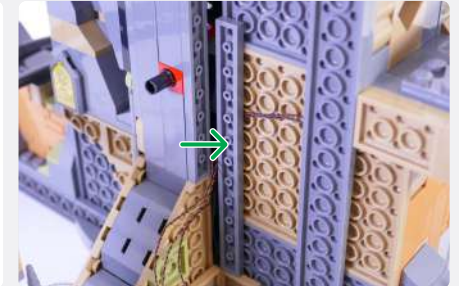
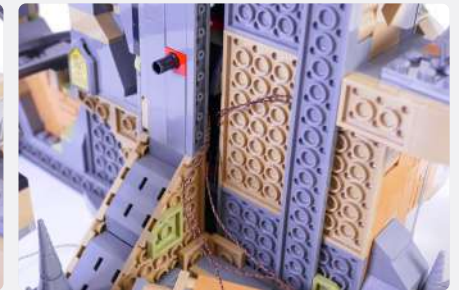
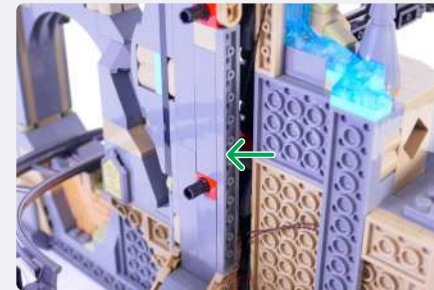
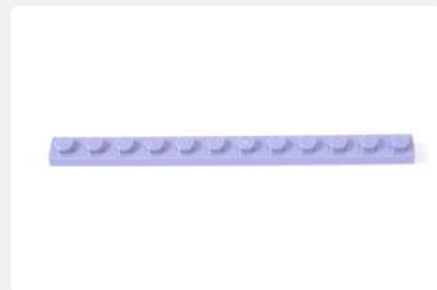
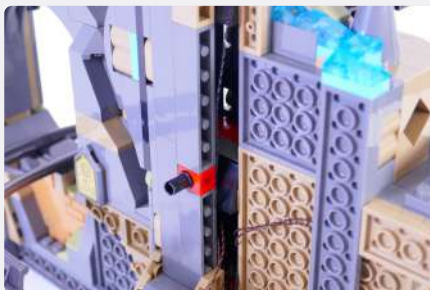
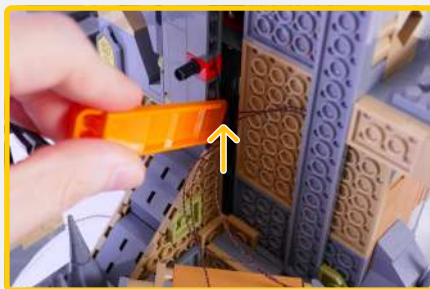
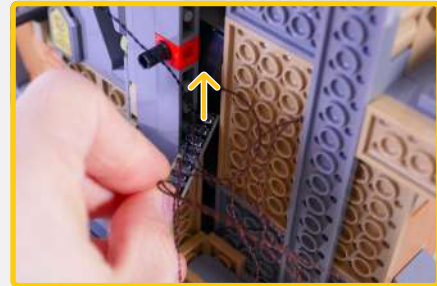
Place the 8-Port Expansion Board you just connected into the indicated position for later.

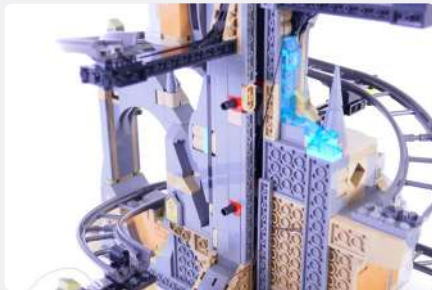


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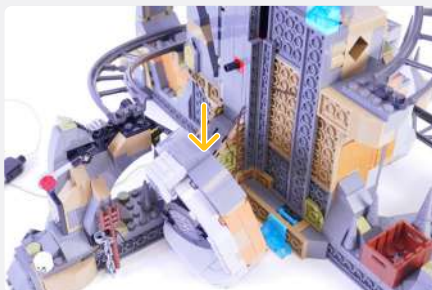
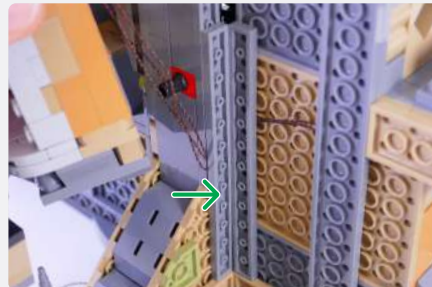
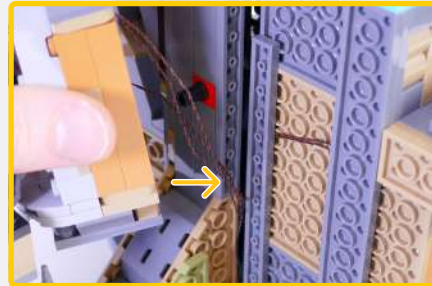
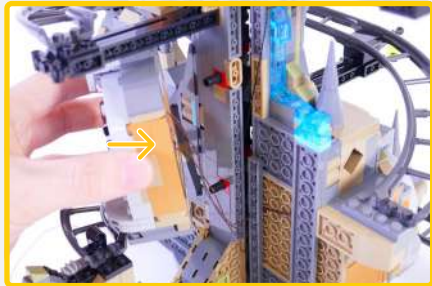
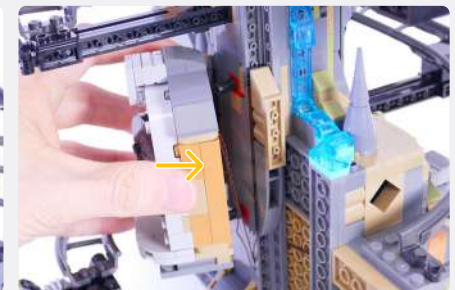
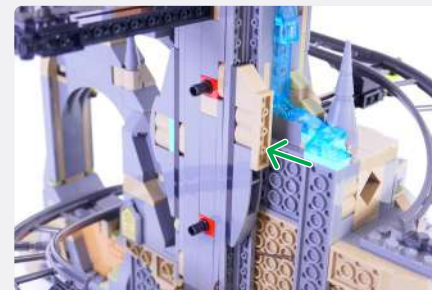
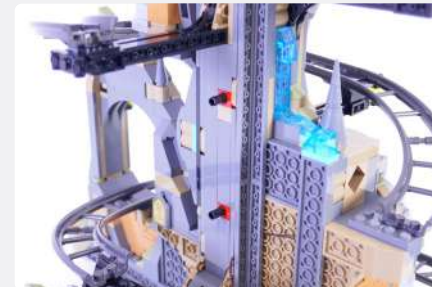
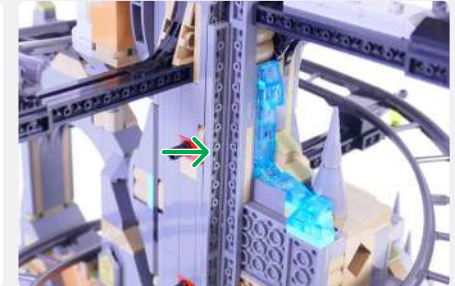
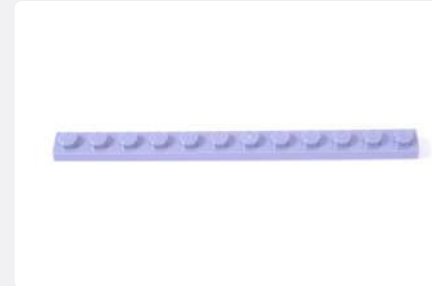
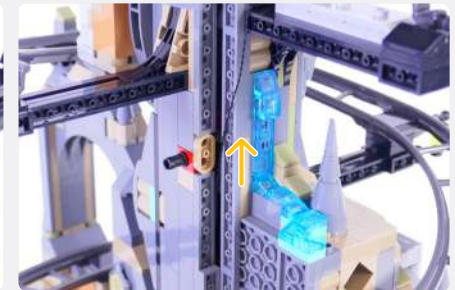
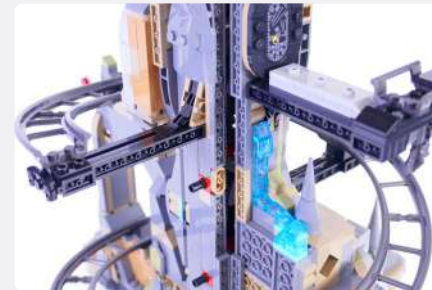


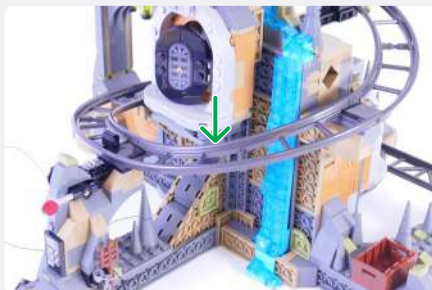
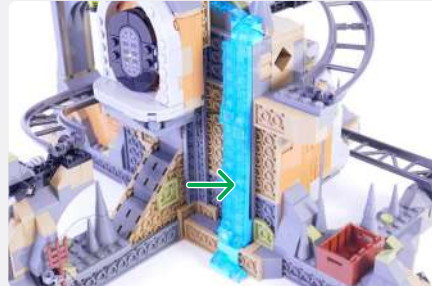
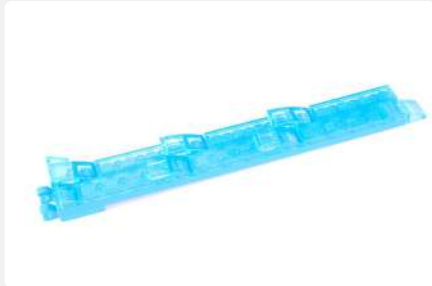
 **NOTE**  
Place the full 8-Port Expansion Board from Step 29 into the hole. Use the brick separator tool to push in all the cables.



**32**

**NOTE**

You will need to hold up the "Vault" while threading the excess cable into the hole. Then connect the grey piece on top of the cables.

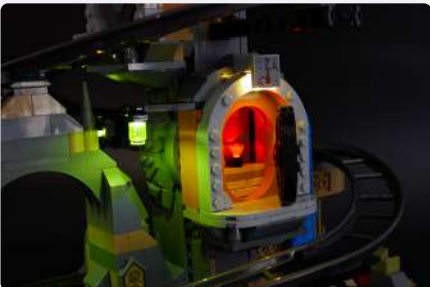
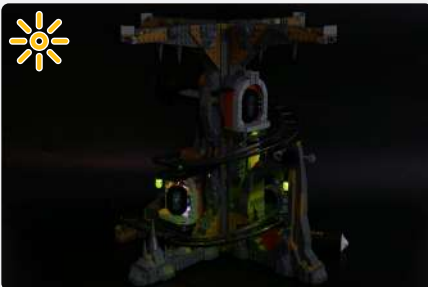

**33**




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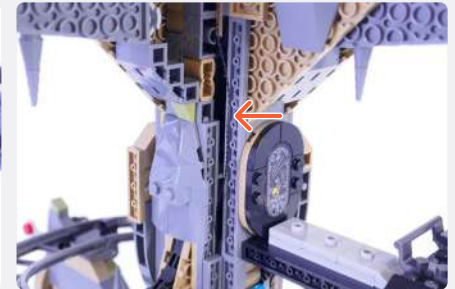


**NOTE**  
Connect to a 5V USB Power Bank, 5V USB Wall Adaptor, or USB to AA Battery Pack (sold separately)

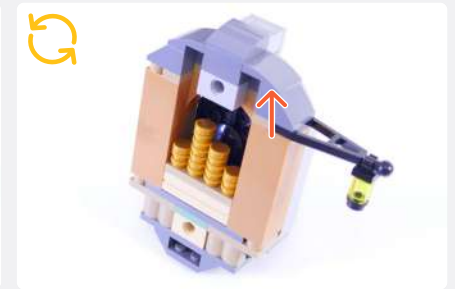
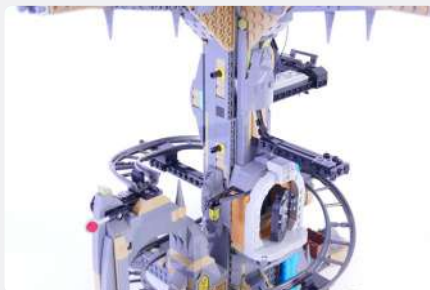
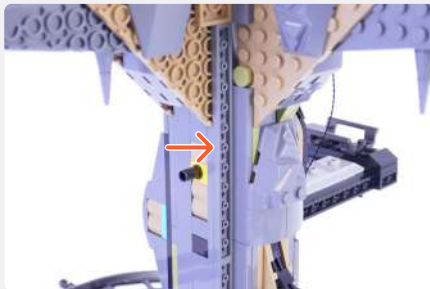
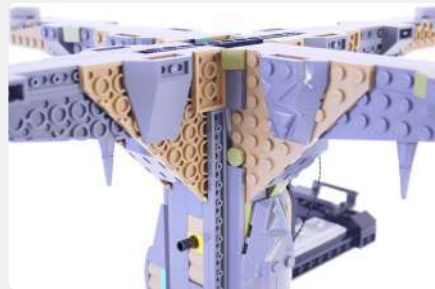


**!** If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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

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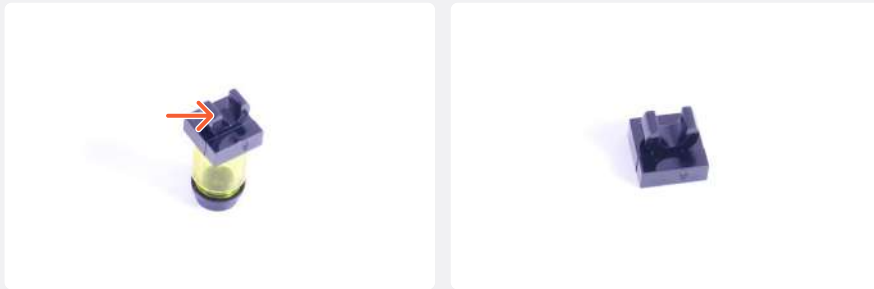


**36**

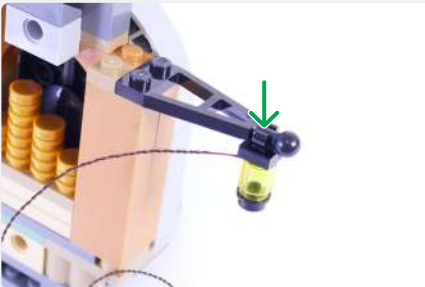




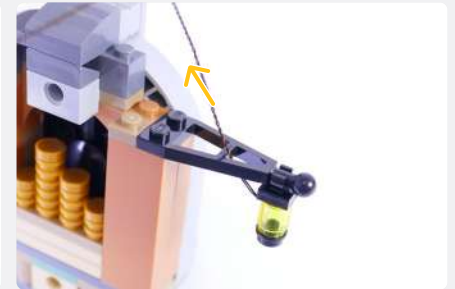
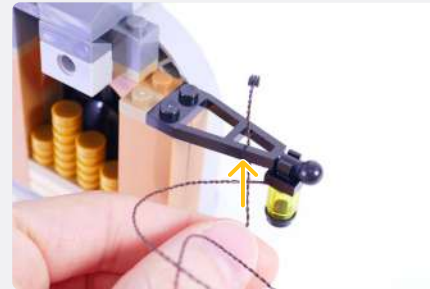
**37**



Cool White 30cm Bit Light



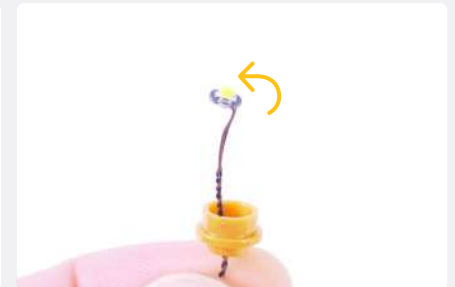
**38**



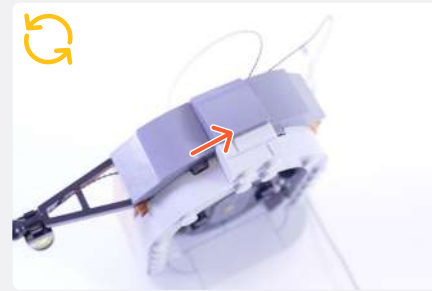
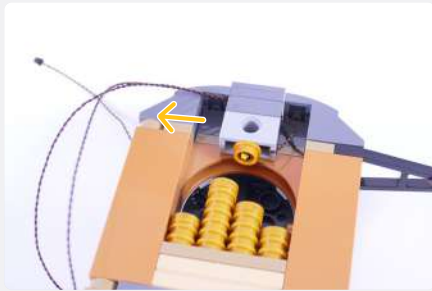
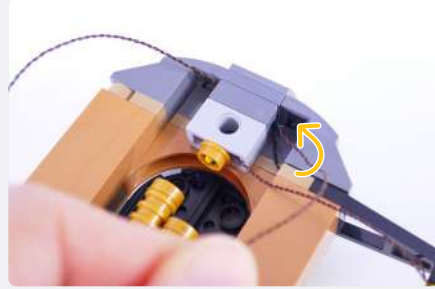
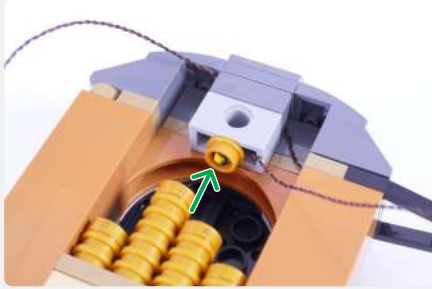
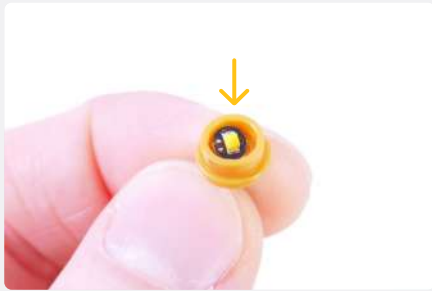
Plate, Round 1x1 with Open Stud - Pearl Gold



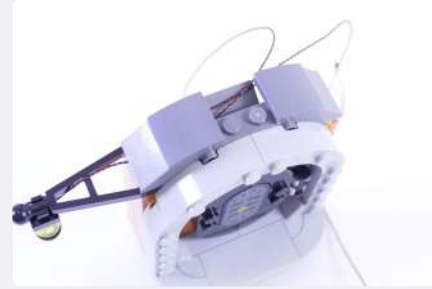
Yellow 30cm Bit Light



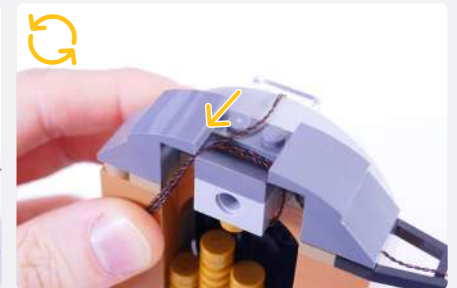
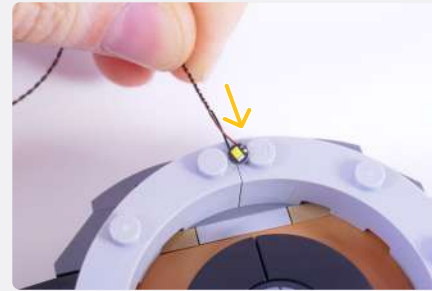
**39**

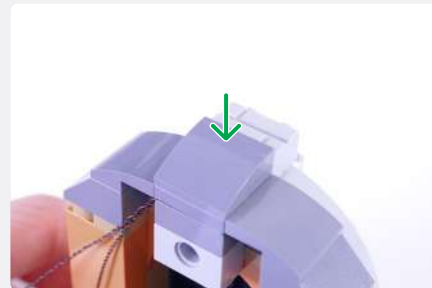


**White 30cm Bit Light**



**Tile 1x2 with Groove - Trans-Clear**



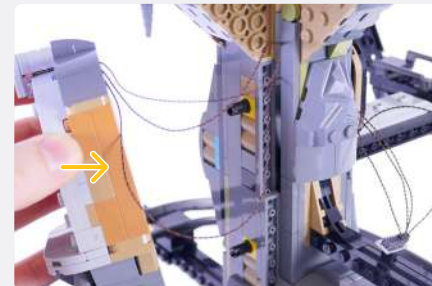
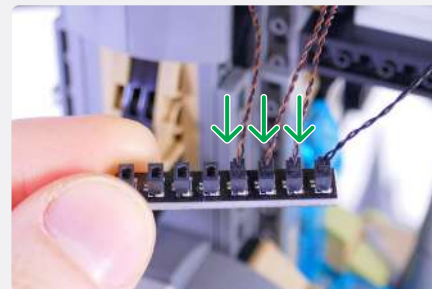
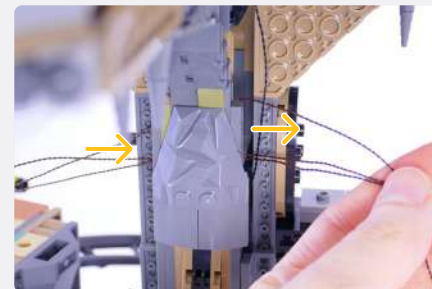
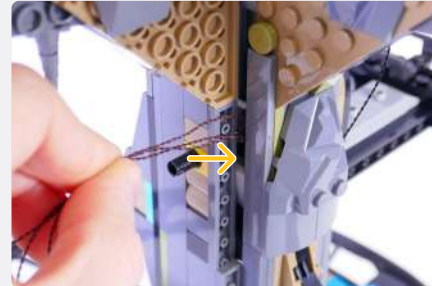
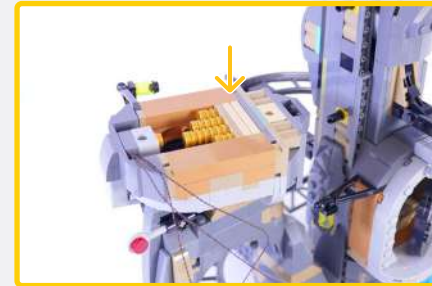


40



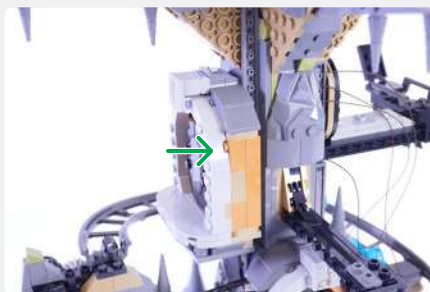
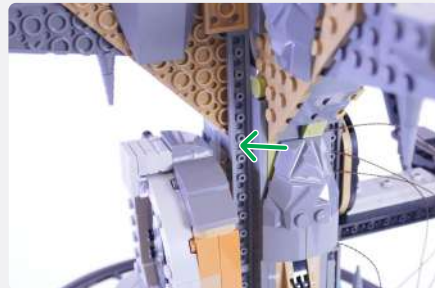
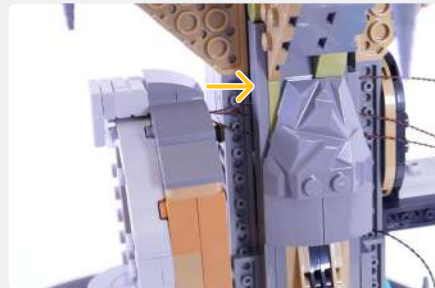
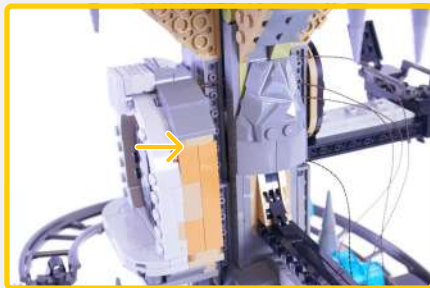
**NOTE**

Place the "Vault" on the tracks then thread the cables from it through the hole to the other side to the 8-Port Expansion Board.

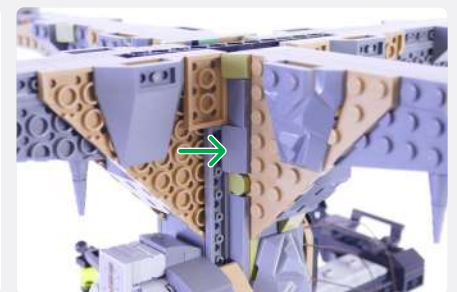
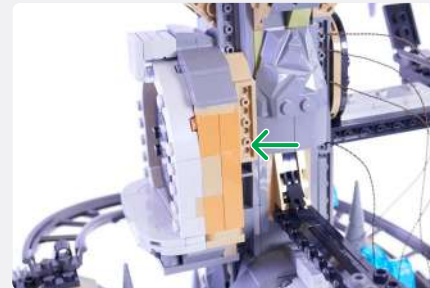


**NOTE**

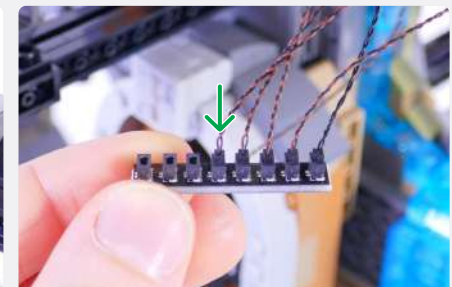
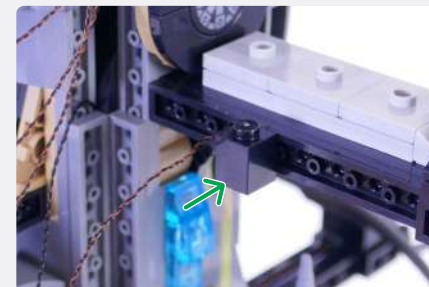
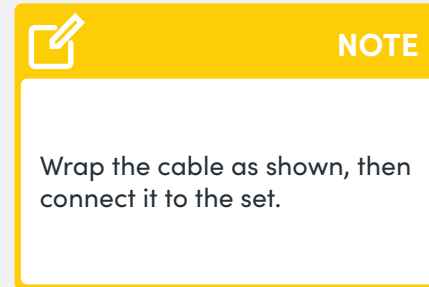
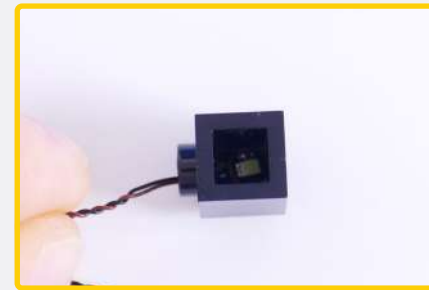
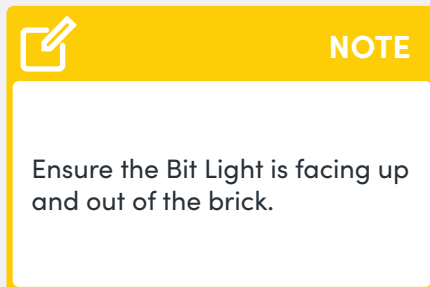
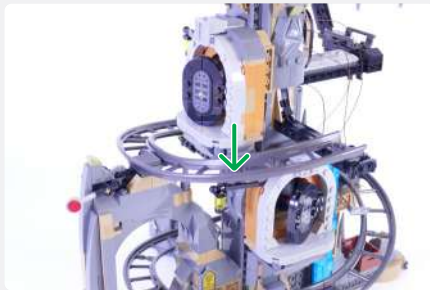
Partially connect the "Vault" back onto the technic pins.

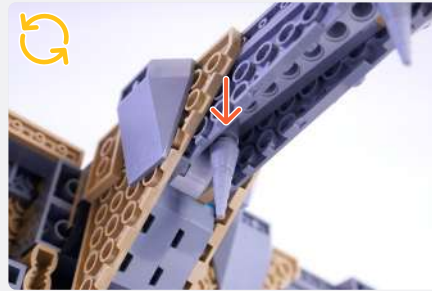
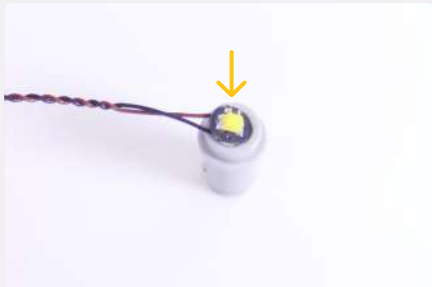


**41**



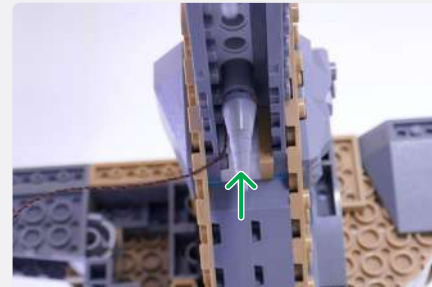
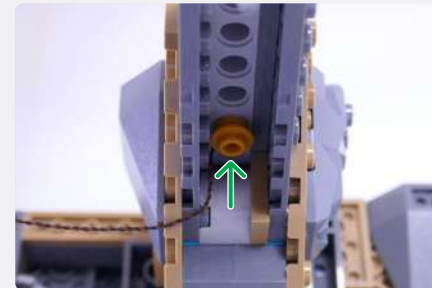
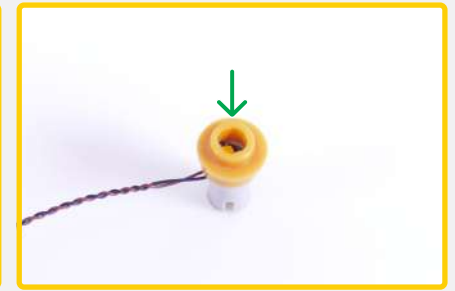
42



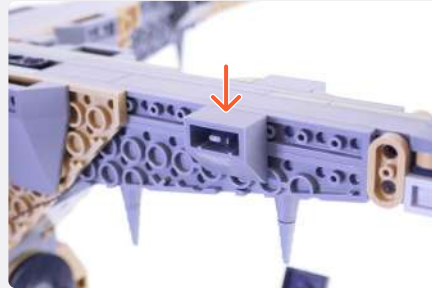
**43**

**White 15cm Bit Light**
**Technic, Pin 1/2 without Friction Ridges - Light Bluish Gray**

**Plate, Round 1x1 with Open Stud - Pearl Gold**

**NOTE**

If you used the gold stud in Step 28, use a black open stud here instead. The light will shine the same which ever one you use here.

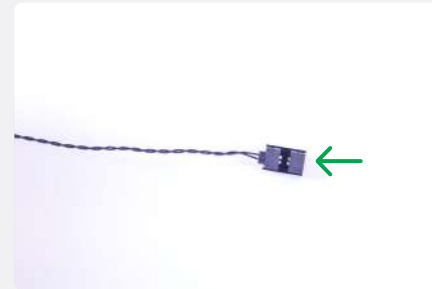


44



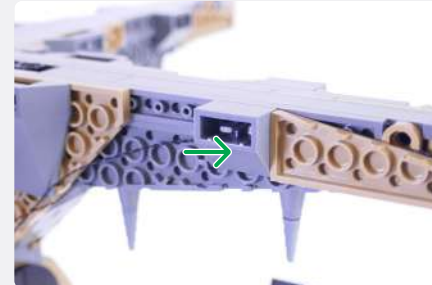
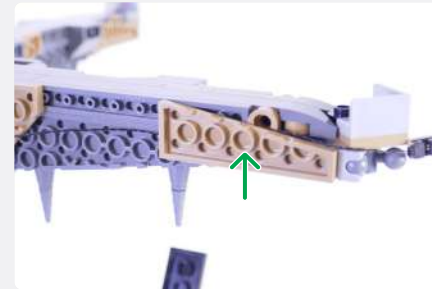
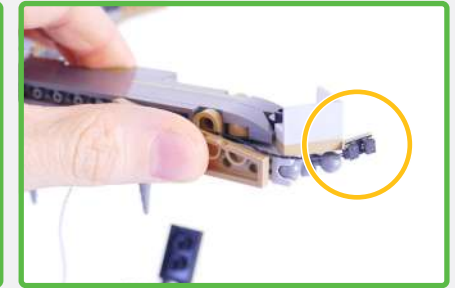
30cm Connecting Cable

2-Port Expansion Board

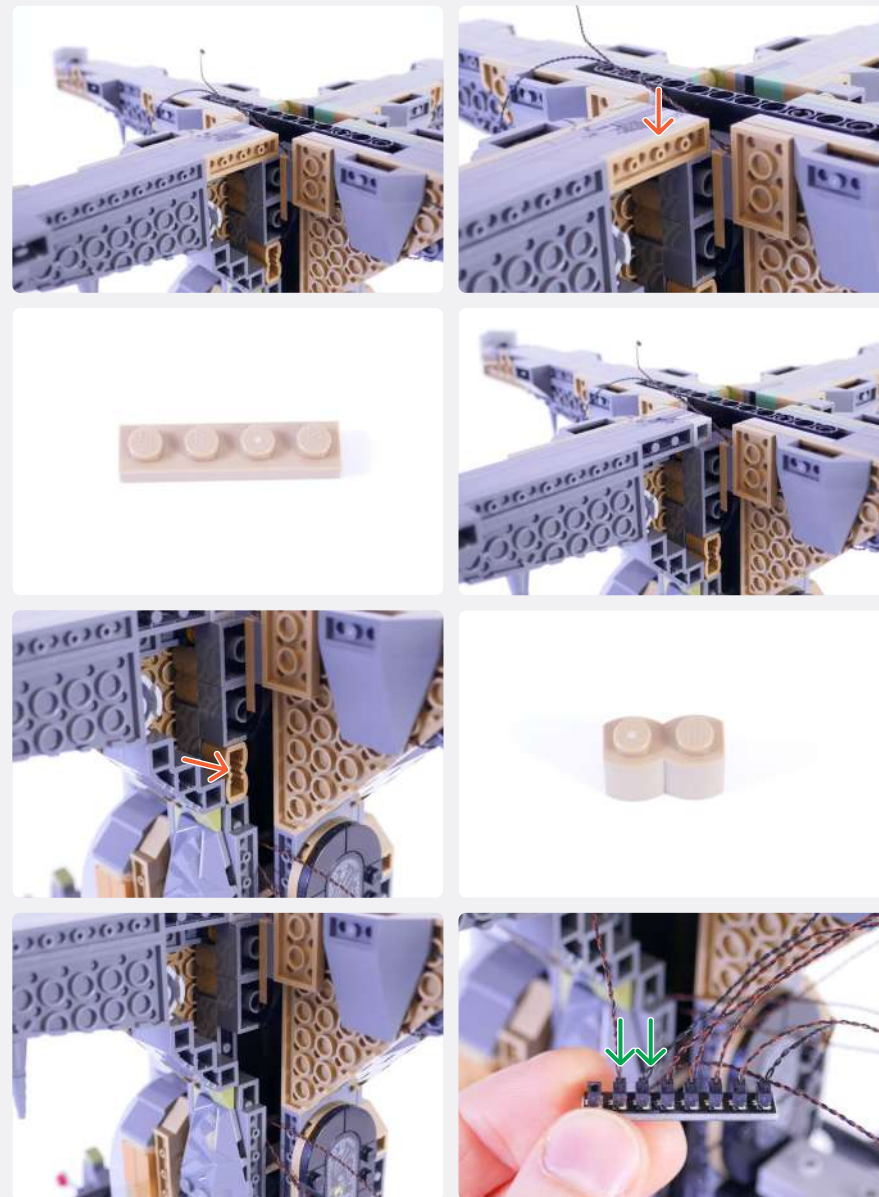
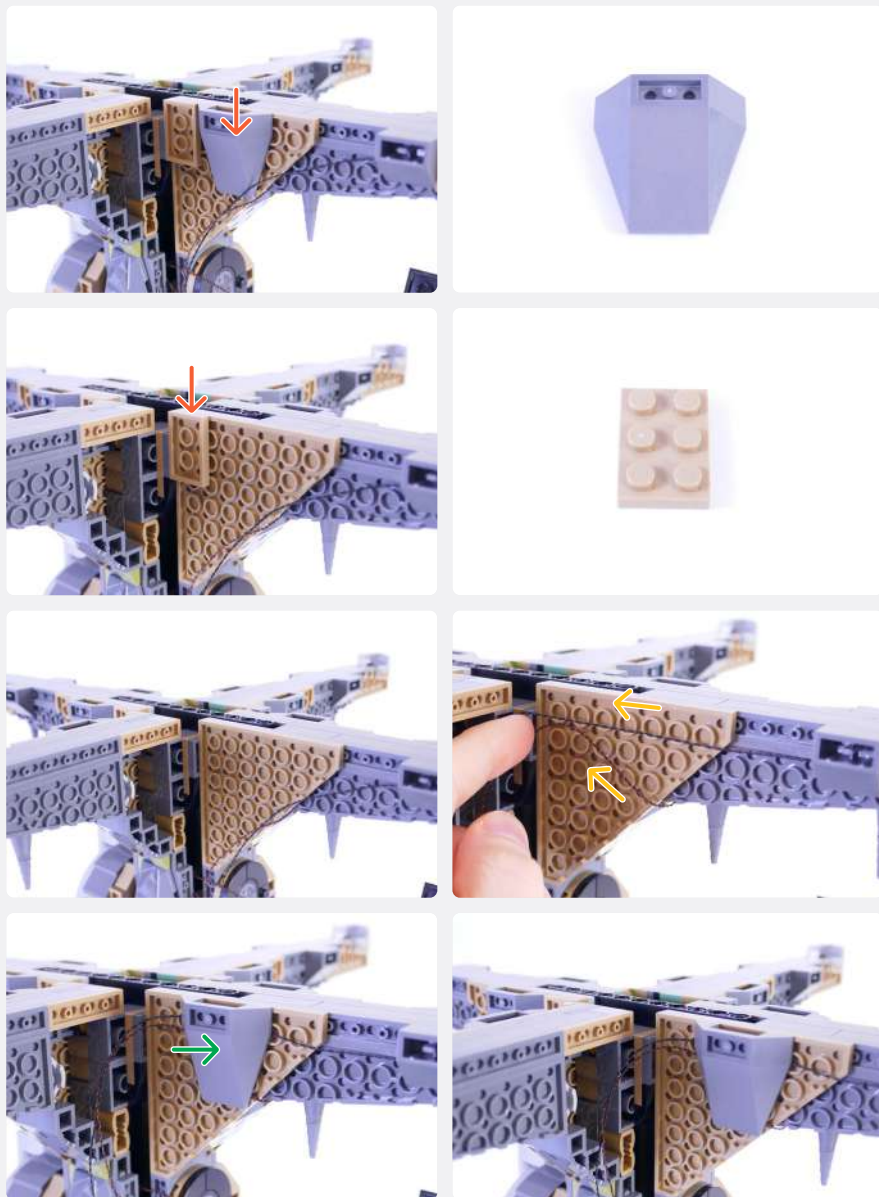


**NOTE**

Use the tan piece to hold the cable in place, having the 2-Port Expansion Board in the indicated position.



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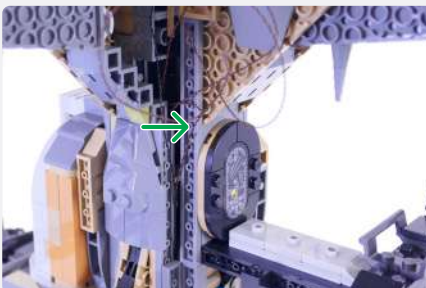
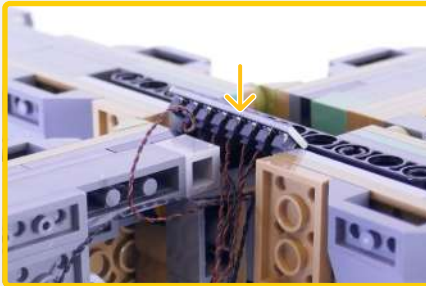
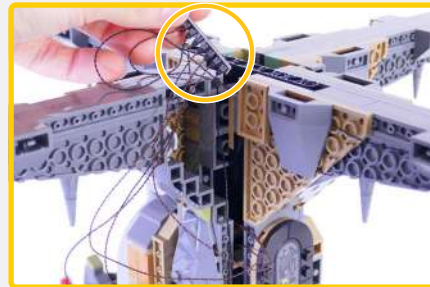
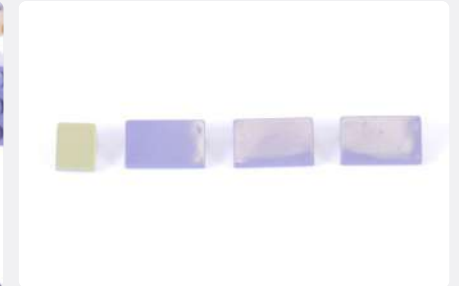
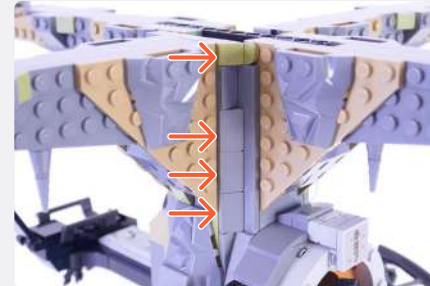
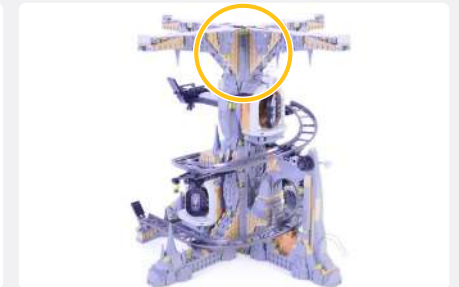




**46**

**NOTE**

Place the 8-Port Expansion Board in the indication position for later use.


**47**


**48**

Tile, Modified 1x1 with Open O Clip - Black



Cone 1x1 Inverted with Bar - Black



White 30cm Bit Light



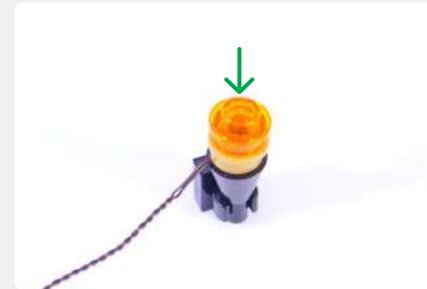
Plate, Round 1x1 with Open Stud - Pearl Gold



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



**49**



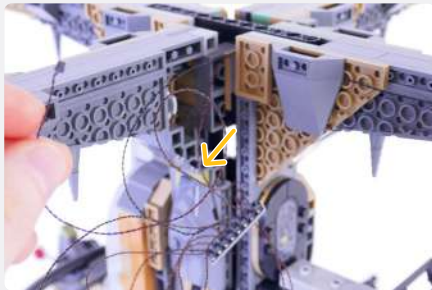
Minifigure, Plume Feather Triple Compact/Flame/Water - Trans-Orange



**NOTE**

Thread the cable through the hole to the other side.



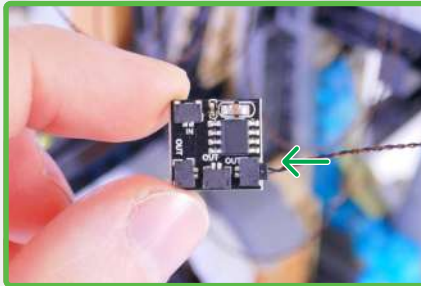


Flicker Effects Board



**NOTE**

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

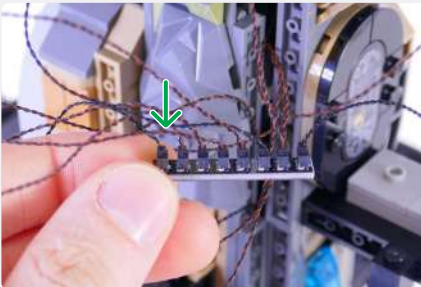
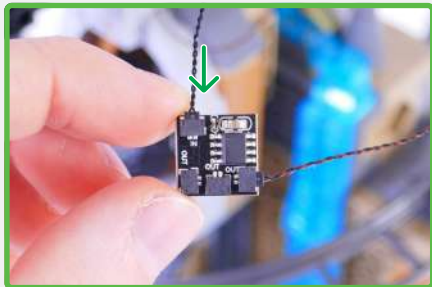


5cm Connecting Cable

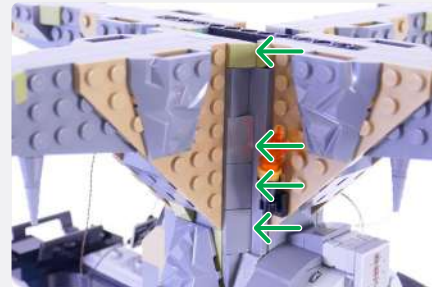
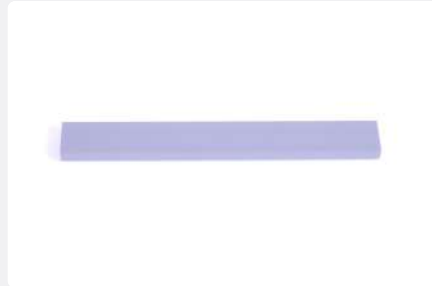


**NOTE**

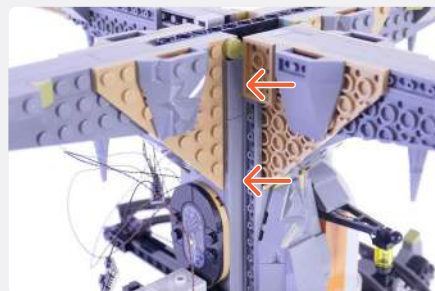
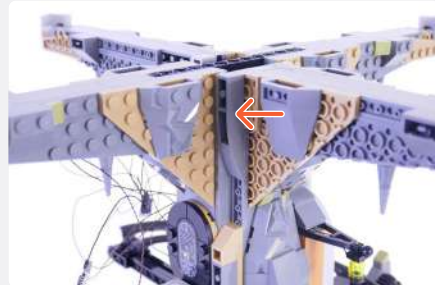
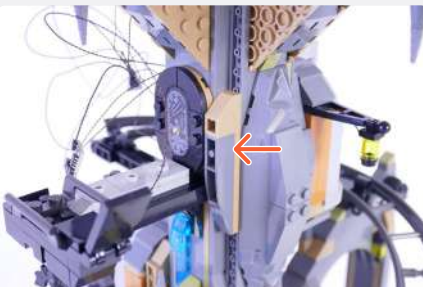
Connect a 5cm Connecting Cable into the "IN" port of the Flicker Effects Board



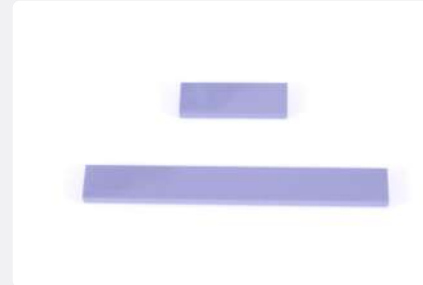
50



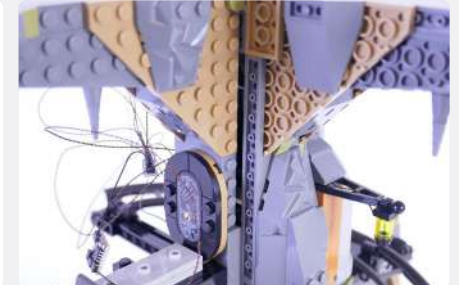
**51**



**52**



Plate, Modified 1x1 with Open O Clip (Horizontal Grip) - Black



Cone 1x1 Inverted with Bar - Black

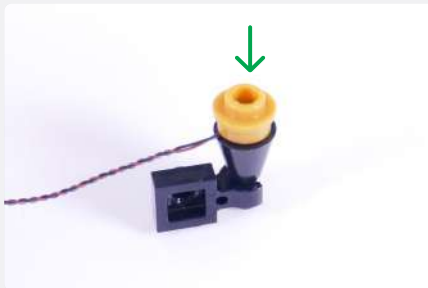


White 30cm Bit Light

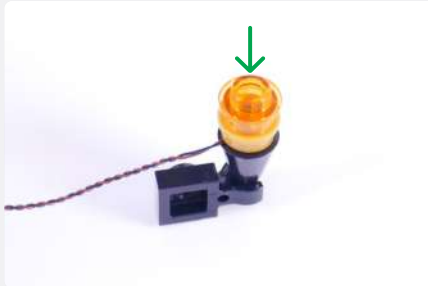


Plate, Round 1x1 with Open Stud - Pearl Gold





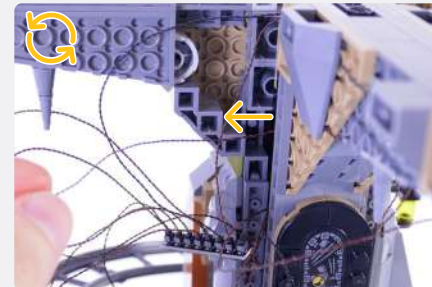
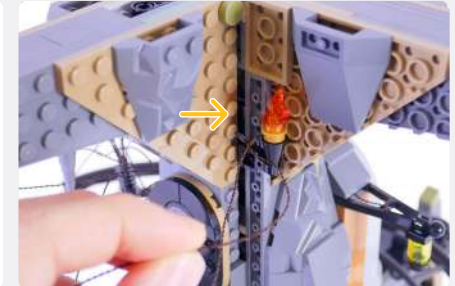
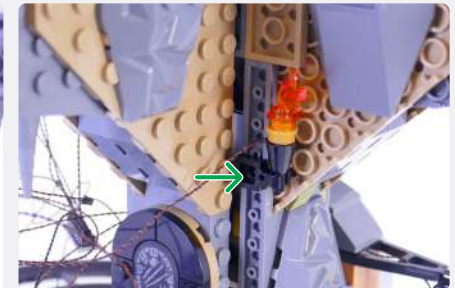
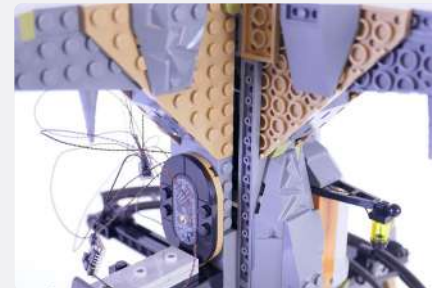
Plate, Round 1x1 with Open Stud - Trans-Orange



Minifigure, Plume Feather Triple Compact/Flame/Water - Trans-Orange

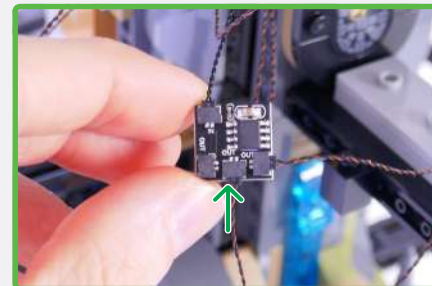


53



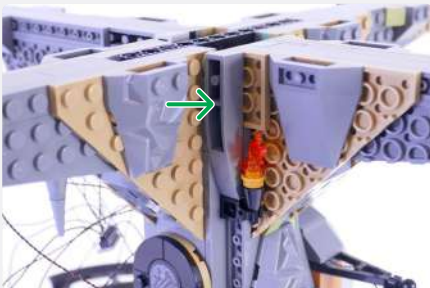
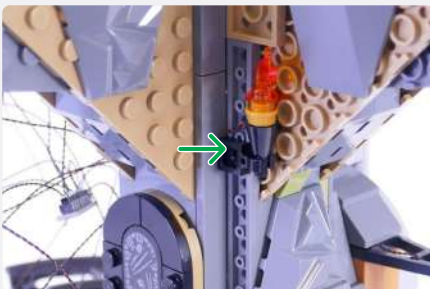
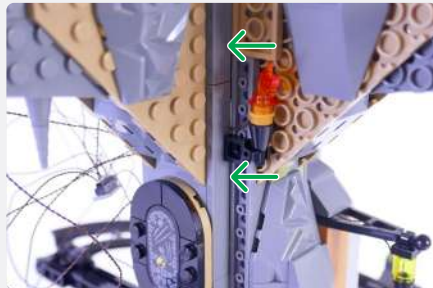
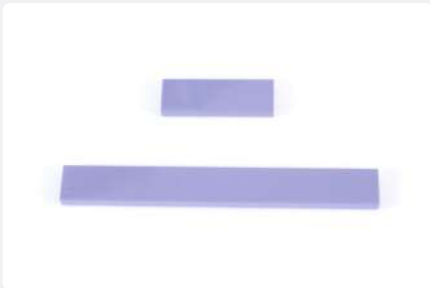
**NOTE**

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

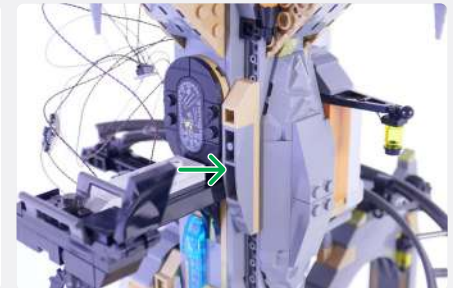


**NOTE**

Temporarily disconnect the torch, then reconnect the grey tiles in place. Reconnect the torch in the same position, pushing excess cable inside.



# 54



Plate, Modified 1x1 with Open O Clip (Horizontal Grip) - Black



Cone 1x1 Inverted with Bar - Black

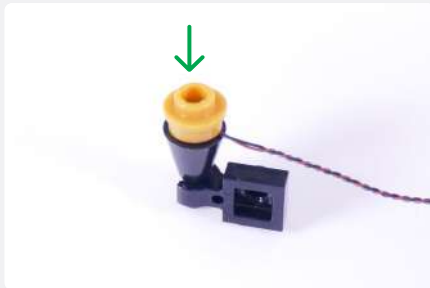


White 30cm Bit Light





Plate, Round 1x1 with Open Stud - Pearl Gold



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



Minifigure, Plume Feather Triple Compact/Flame/Water - Trans-Orange

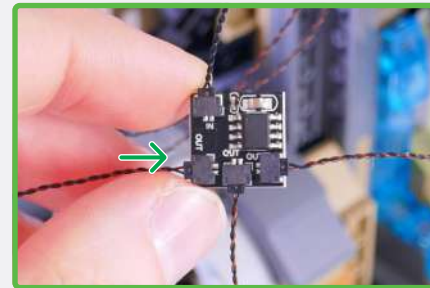


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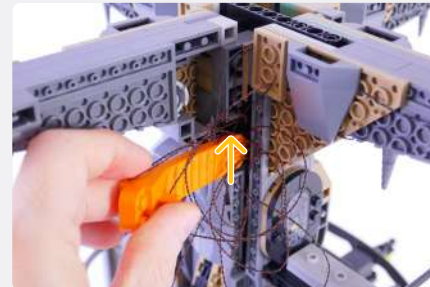
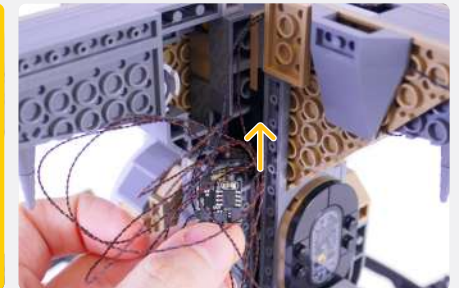
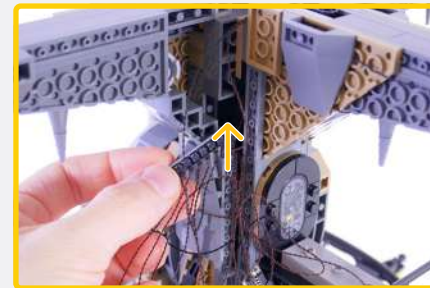
NOTE

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

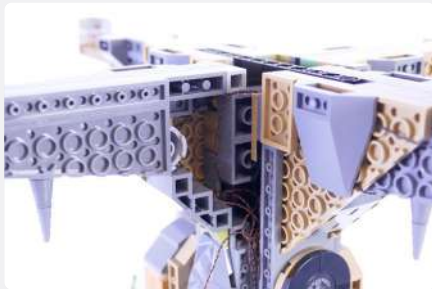


NOTE

Leave the new torch loose for now, and tuck all the other boards and cables into the hole.

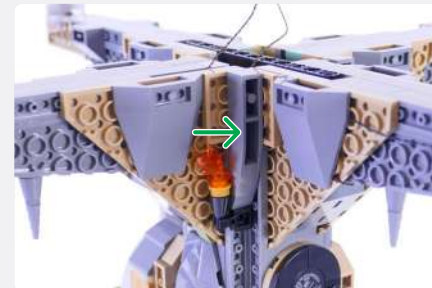
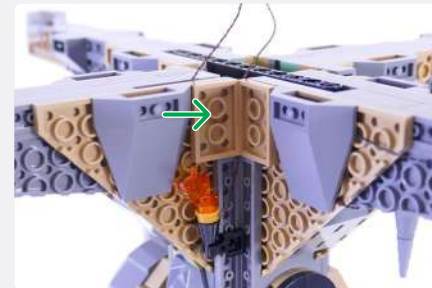
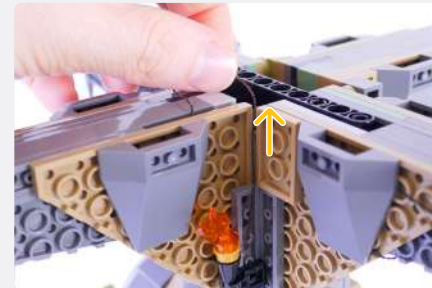
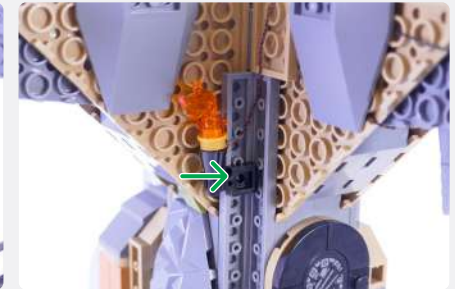
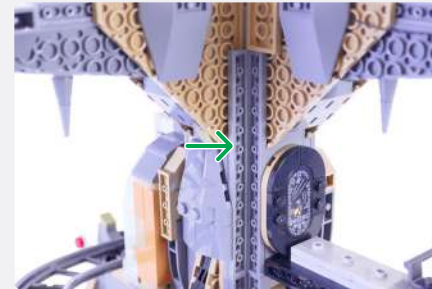
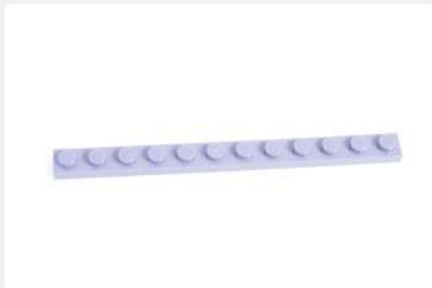
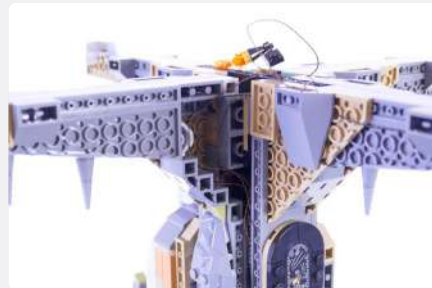
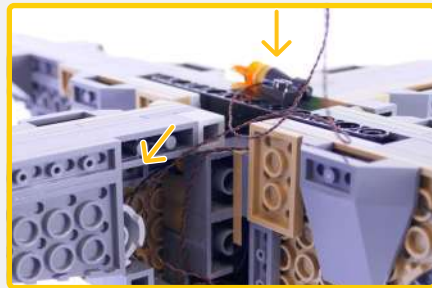


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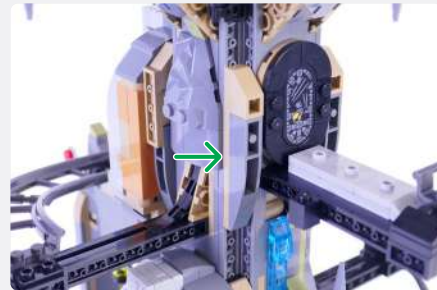
NOTE

Place the loose torch on top of the set. Ensure the cable is running through the indicated gap. Connect the tan piece to cover the hole.



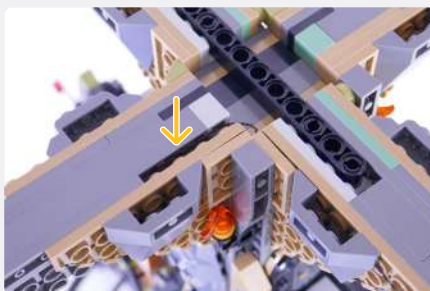
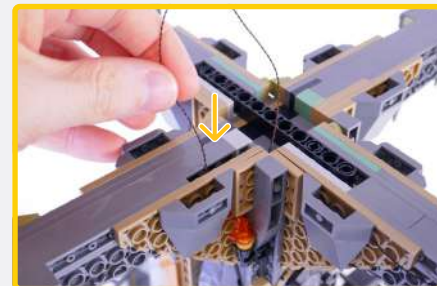


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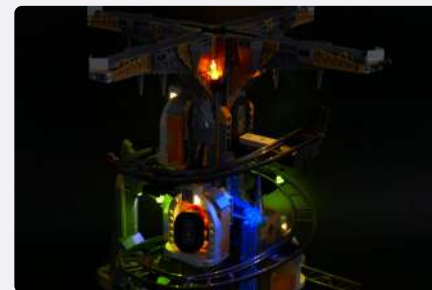
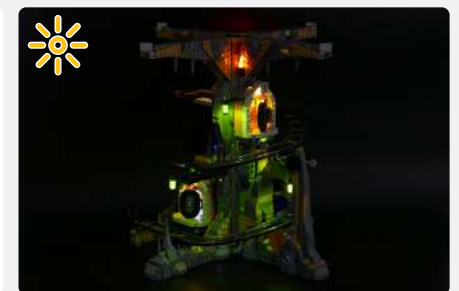
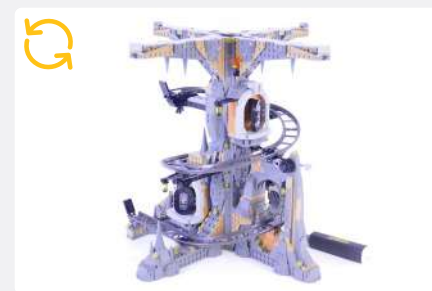
**NOTE**

Thread all the excess cable into the hole.



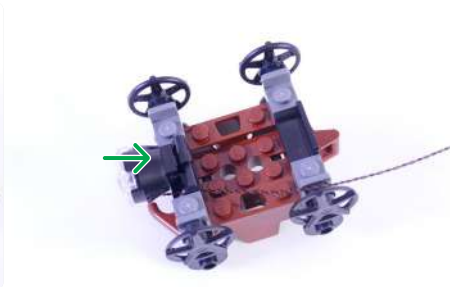
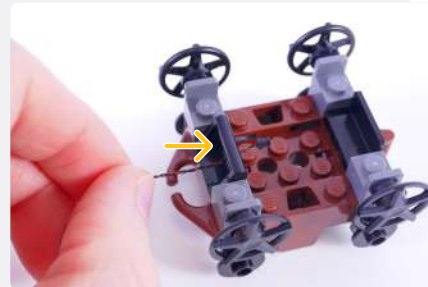
**NOTE**

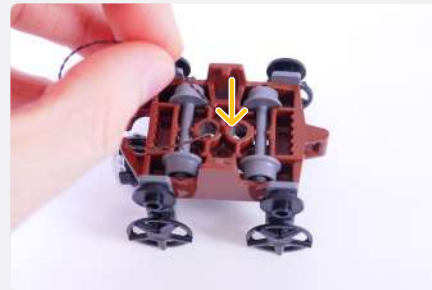
Connect to a 5V USB Power Bank, 5V USB Wall Adaptor, or USB to AA Battery Pack (sold separately)



**!** 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**

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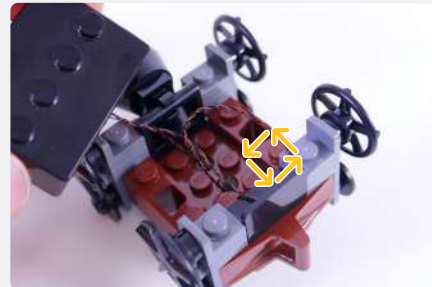


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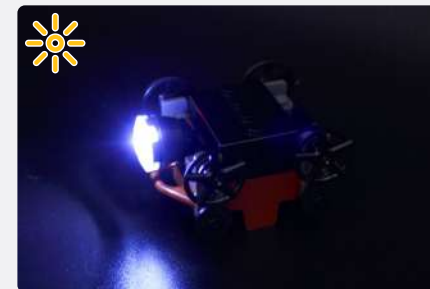
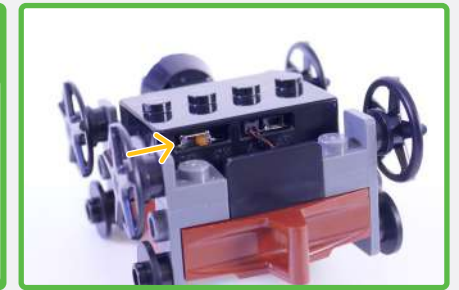
**Power Brick**


**NOTE**

Before connecting, ensure you have 2x CR 2025 batteries (not included) installed in the Power Brick.


**NOTE**

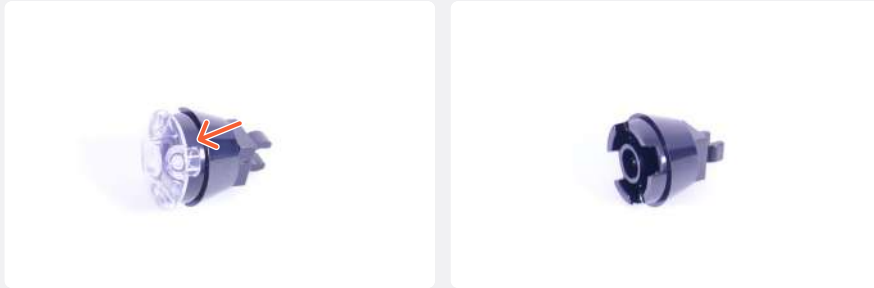
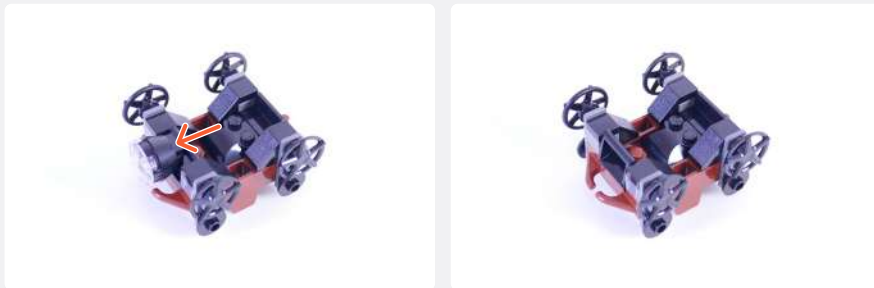
Flick the switch to the "ON" position to turn the cart light on. Remember to turn it off after finished using as the batteries will run out.



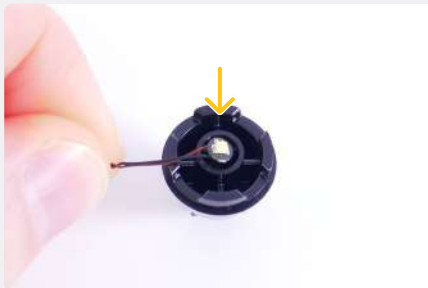
! If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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



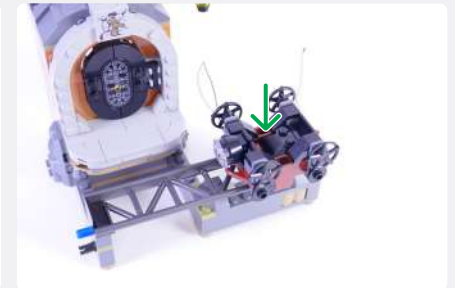
**62**



Cool White 30cm Bit Light

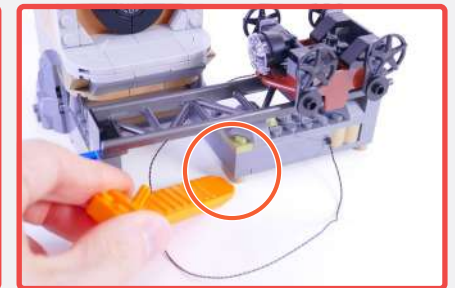


**63**

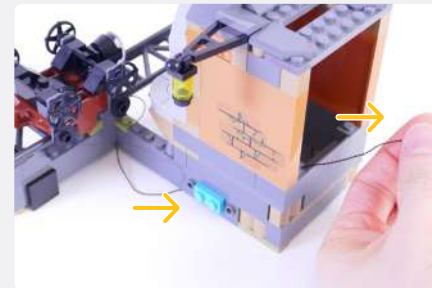
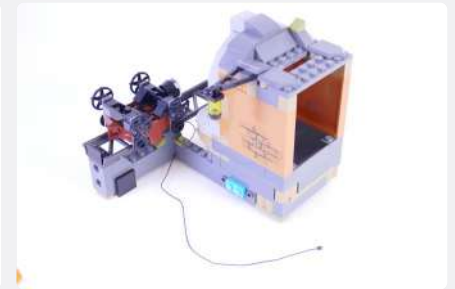
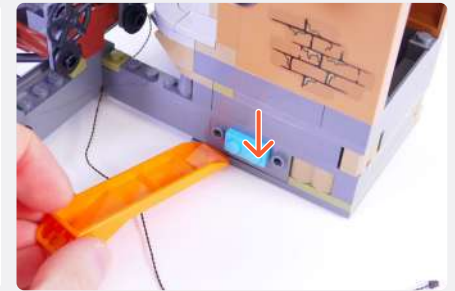
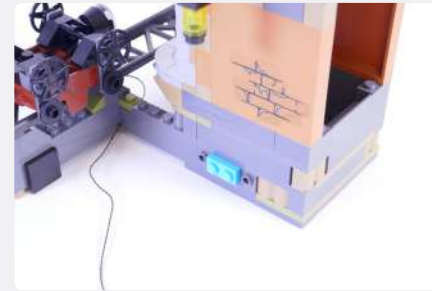
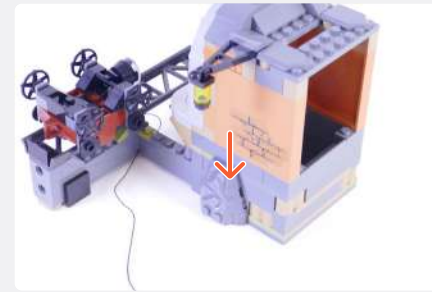
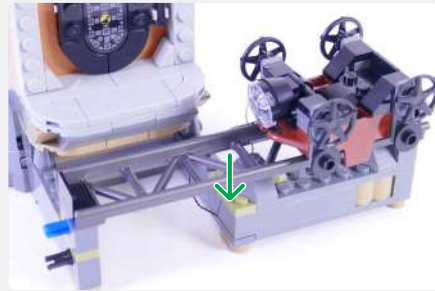
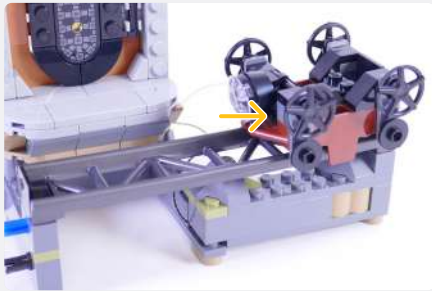
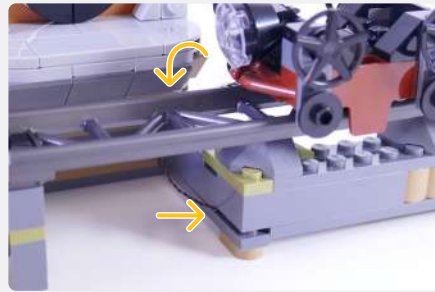
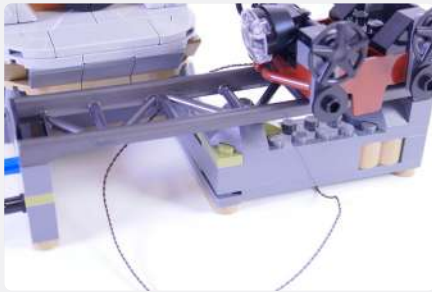


**NOTE**

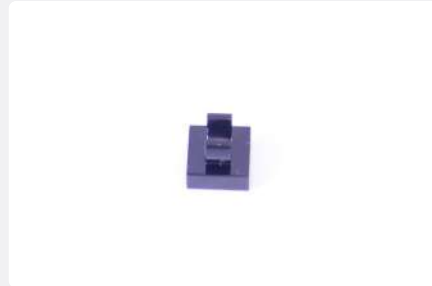
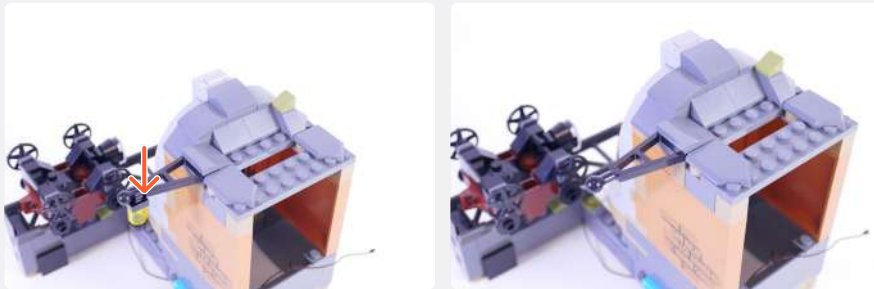
Partially disconnect the indicated section.



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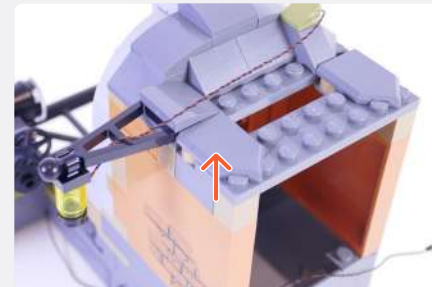
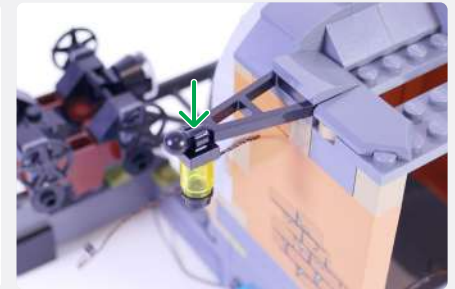
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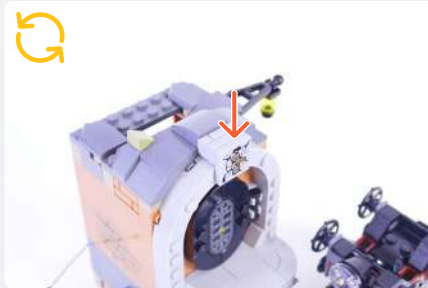
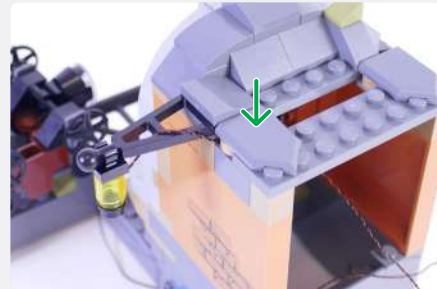
Cool White 15cm Bit Light



**66**



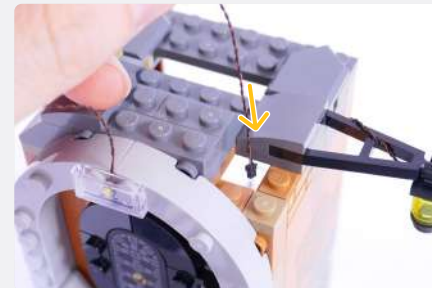
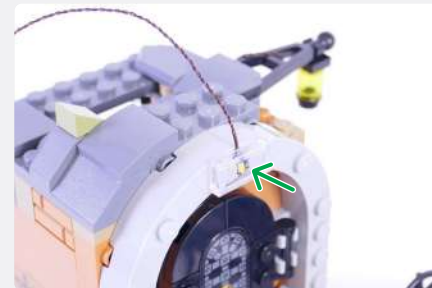
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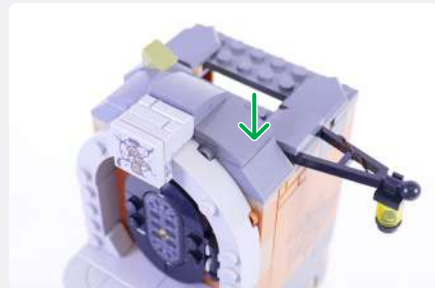
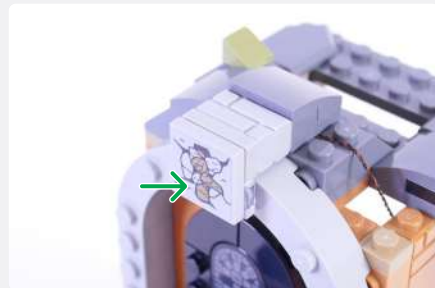
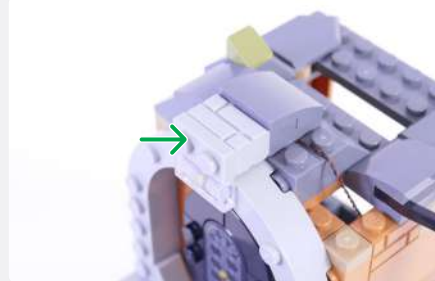
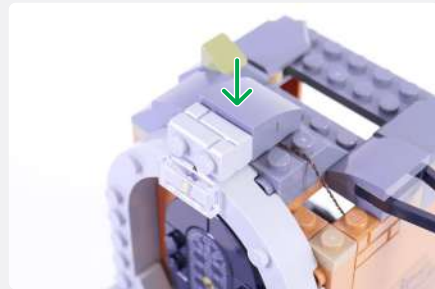
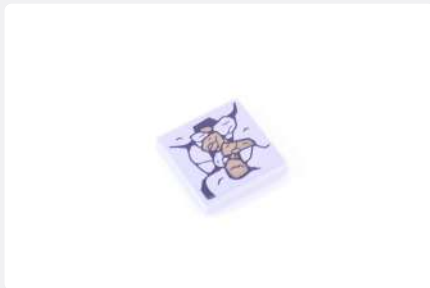
White 15cm Bit Light



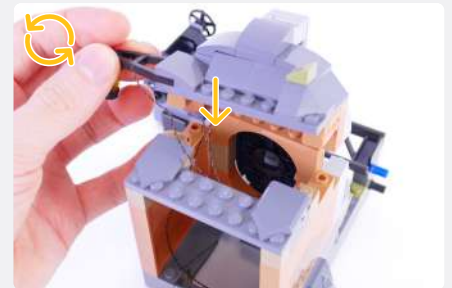
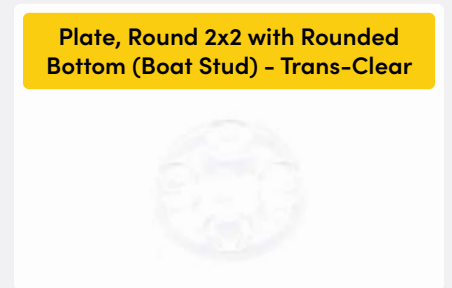
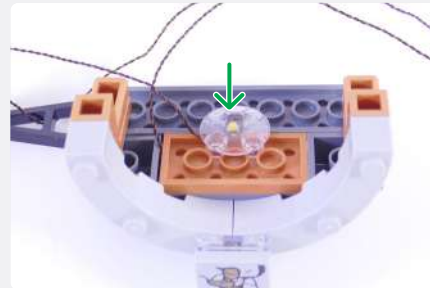
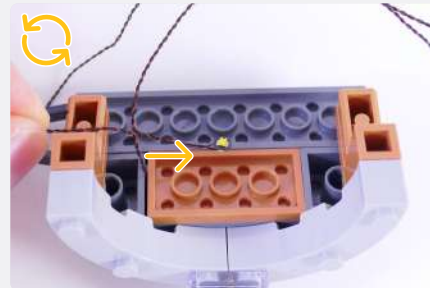
Tile 1x2 with Groove - Trans-Clear



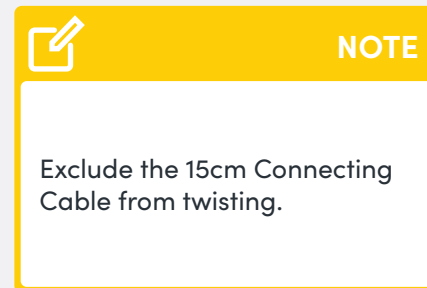
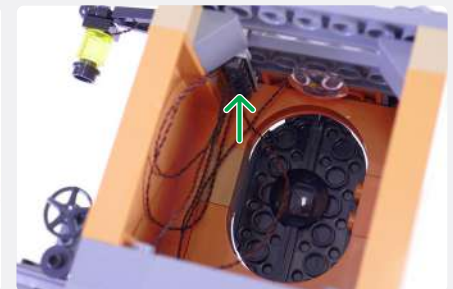
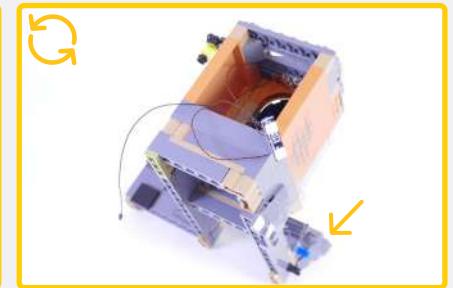
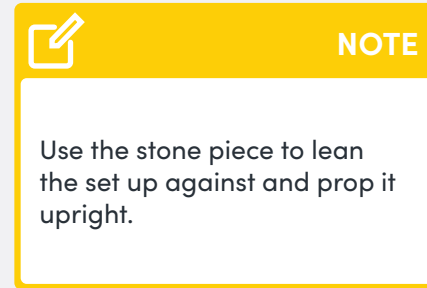
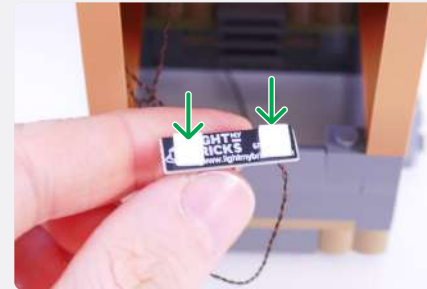
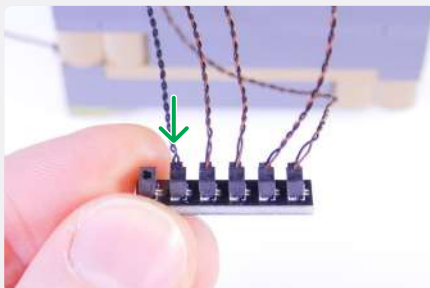
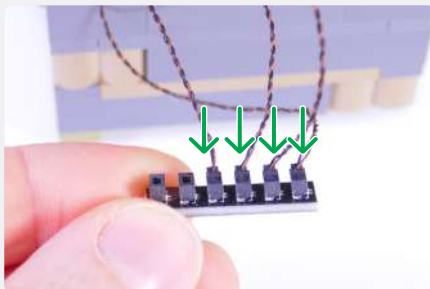
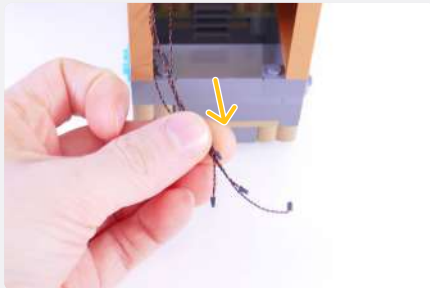
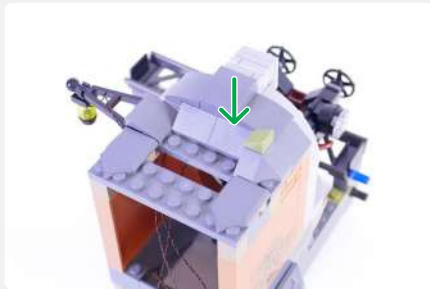




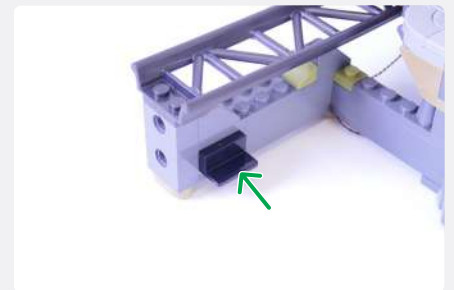
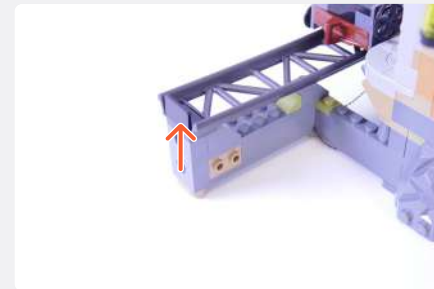
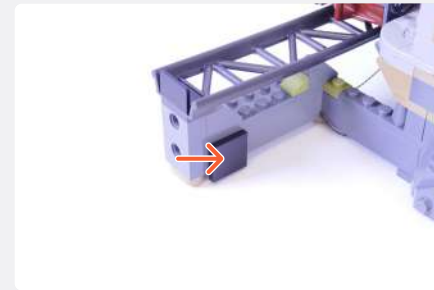
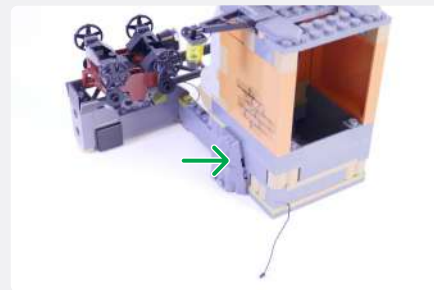
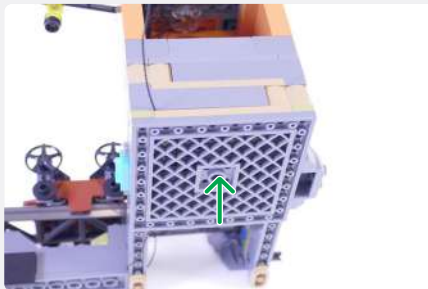
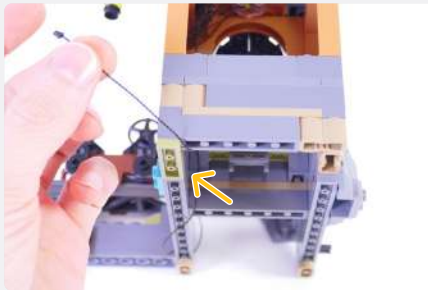
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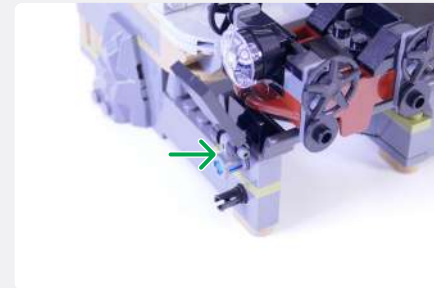
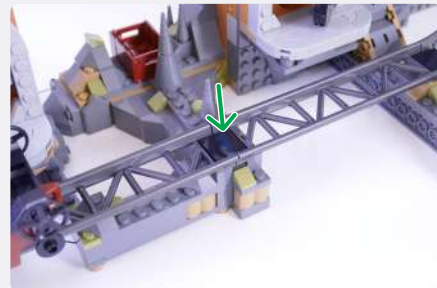
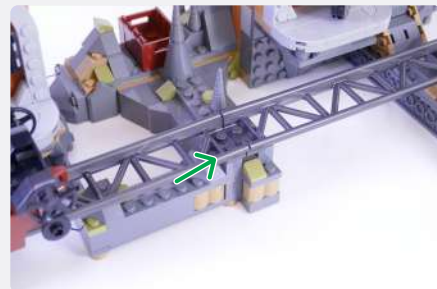
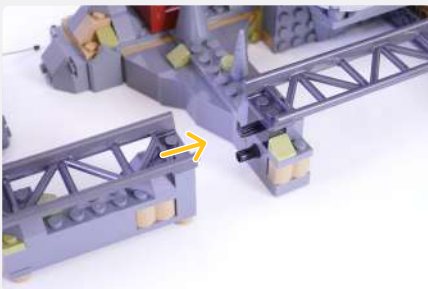
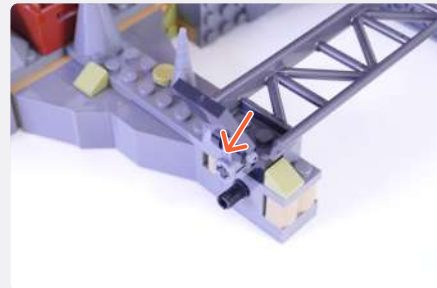
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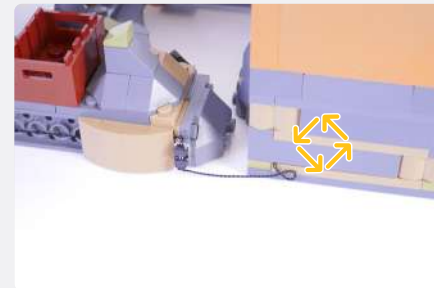
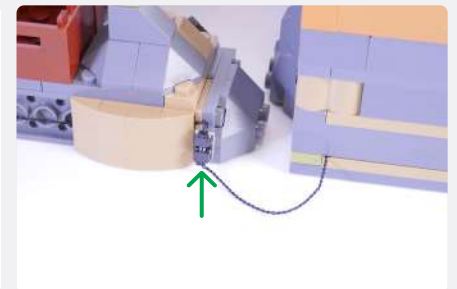
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! If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion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

## END OF PART 1

This completes Part 1 of the light kit installation guide.

[Click here](#) to download Part 2.





## 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.**

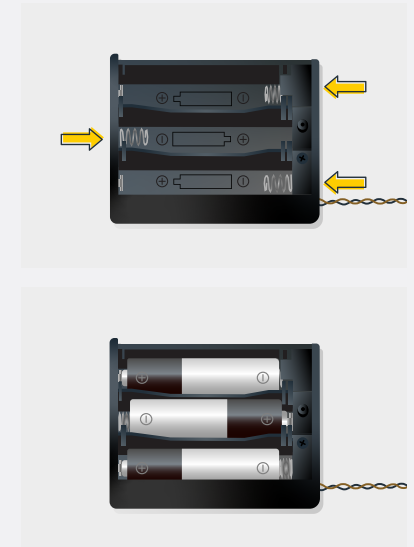
**If the batteries have no power, replace the batteries.**

**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

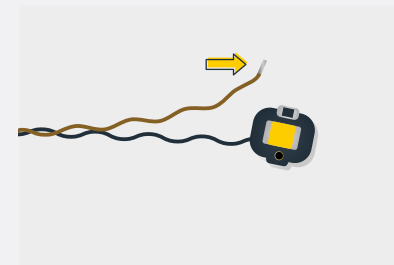
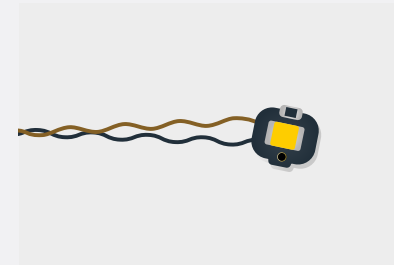
In order for Light My Bricks components to fit in between and underneath LEGO® bricks, the components need to be very small. Due to this nature, Light My Bricks components can be easily damaged when not handled correctly.

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.



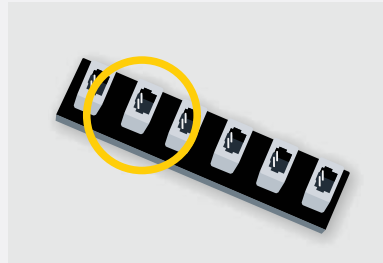
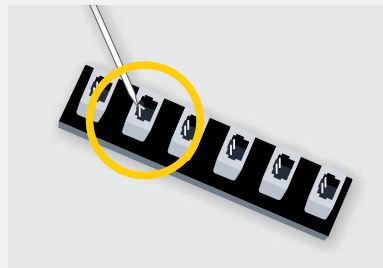
## Troubleshooting

### 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.

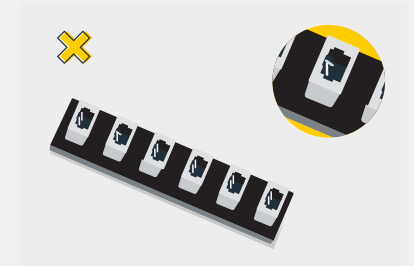
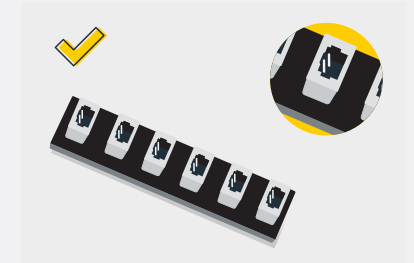
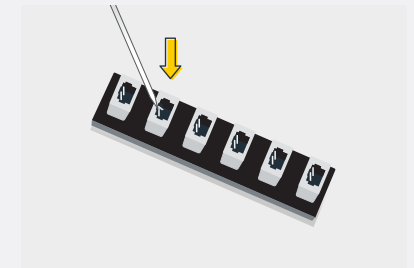
Not only will a light connected to the damaged port not work, but if the pins inside the port are bent to a point they are touching each other, this can result in all other lights in the system to stop working. This is a short circuit.



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

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