



**LIGHT^{MY}
BRICKS**



LEGO[®] VIKING VILLAGE #21343

LIGHT KIT

INSTALLATION GUIDE

Light My Bricks



LEGO® VIKING VILLAGE 21343 INSTALLATION GUIDE

Hi There!

We're here to help you get started on the LEGO®
Viking Village 21343 Light Kit.

This PDF details the instructions for the LED light kit only.

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

Have fun and enjoy!

INSTALLATION GUIDE





PACKAGE CONTENTS:

Individual Bags



- 1x Light Blue Large 30cm Bit Light
- 1x Orange Large 30cm Bit Light
- 2x Light Blue 30cm Bit Light
- 3x Orange 30cm Bit Light
- 5x White 30cm Bit Light
- 2x White 30cm Micro Bit Light

Connecting Cables



- 2x 5cm Connecting Cable
- 2x 30cm Connecting Cable

USB Power Cable



- 1x USB Power Cable
(Power Source not Included)

Mixed Components 1



- 1x Flicker Effects Board
- 3x 6-Port Expansion Board
- 1x 4-Port Micro Expansion Board
- 10x Adhesive Square

Mixed Components 2



- 1x Plate, Round 1x1 - Trans Dark Green
- 2x Plate, Round 1x1 Open Stud - Trans Orange
- 4x Plate, Round 1x1 Open Stud - Gold
- 1x Plate, Round 1x1 Open Stud - Light Grey
- 5x Plate, Round 1x1 Open Stud - Black

Mixed Components 3

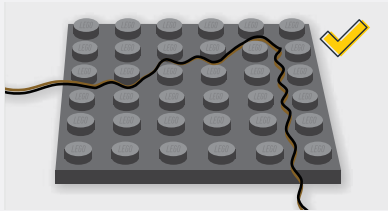


- 2x Minifigure, Plume Feather Triple Compact / Flame / Water - Trans-Orange
- 2x Arm Skeleton, Bent with Clips at 90 degrees (Vertical Grip) - Black
- 1x Plate, Modified 1x1 with Open O Clip (Horizontal Grip) - Black
- 1x Tile, Modified 1x1 with Open O Clip - Black
- 1x Bracket 1x1 - 1x1 - Light Bluish Gray
- 1x Plate, Round 1x1 with Bar Handle - Black
- 2x Minifigure, Utensil Telescope - Pearl Gold

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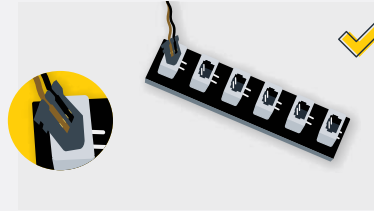
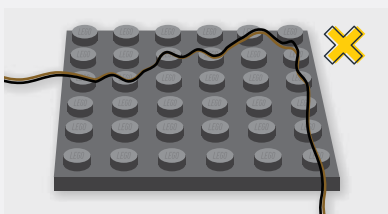
Before You Begin



Laying cables in between and underneath bricks

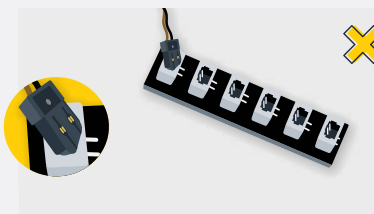
Cables can fit in between and underneath LEGO® bricks, plates, and tiles providing they are laid correctly between the LEGO® studs. Do NOT forcefully join LEGO® together around cables; instead ensure they are laying comfortably in between each stud.

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



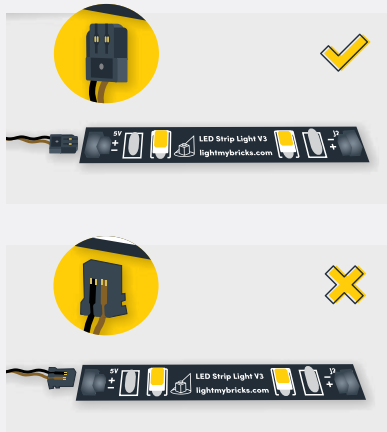
Connecting Cable Connectors To Expansion Boards

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



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

Before You Begin



Connecting Cable Connectors To Strip Lights

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



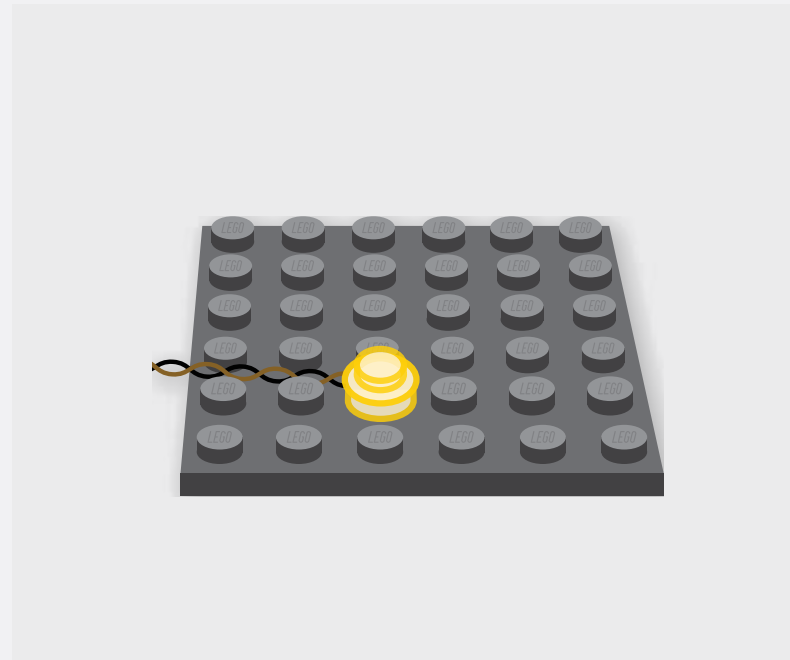
Connecting Micro Cable Connectors To Micro Expansion Board Ports

Take extra care when inserting the micro connectors to micro ports of Micro Expansion Boards. Connecting Micro Bit Lights to Micro Expansion Boards is similar to connecting lights and cables to Strip Lights. With the expansion board facing up, ensure the side of the connector with the wires exposed is facing down. If a plug won't fit easily into a port connector, do not force it. Use your fingernail to push the plastic part of the connector to the micro port.

Before You Begin

Installing Bit Lights Under Lego® Bricks And Plates

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



Before You Begin

The Symbols Used In This Guide

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

Light Kit Component

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

White 30cm Bit Light



Connect

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



Disconnect

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



Directional

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



Bend/Pivot

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



Turn/ Flip

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



Twist/ Braid

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



Power On Test

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



Note

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



Before You Begin

Repeat Step

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

x2

Connect Focus

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



Disconnect Focus

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



General Focus

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



General Note


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

Connect Note

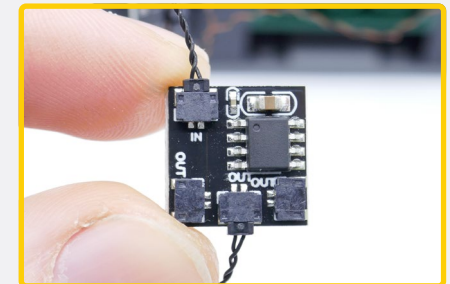
The green coloured note is used when the topic focuses on a component being connected, like the shown Power Bank.


Disconnect Note

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


NOTE


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




NOTE

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



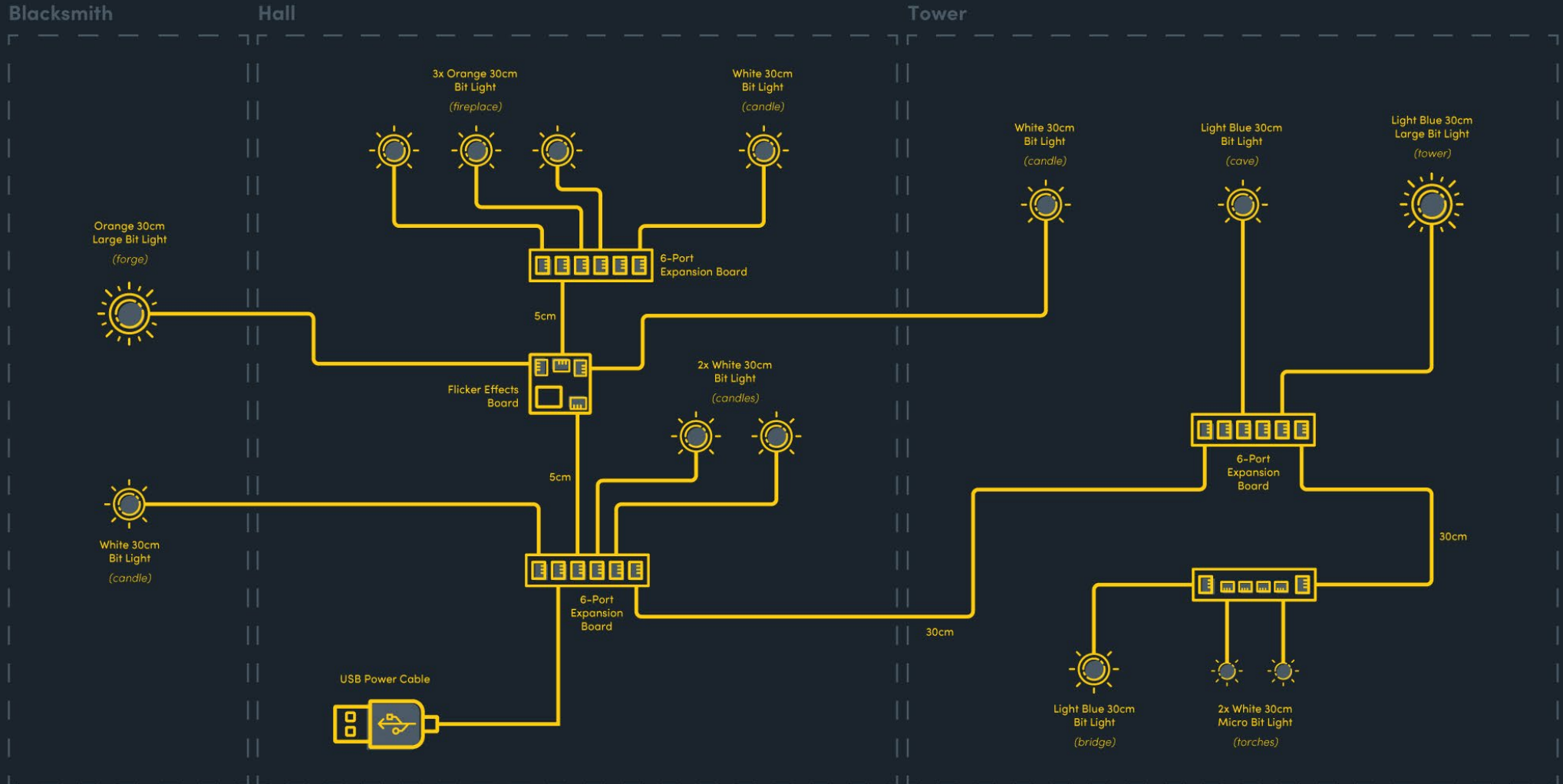

NOTE

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





BLUEPRINT





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.



Wenn Sie Probleme mit Ihrem Light My Bricks-Set haben, sehen Sie sich unser Video zur Fehlerbehebung an oder lesen Sie die Auflistung der häufigsten Ursachen, die Ihnen bei der Fehlersuche helfen hier.

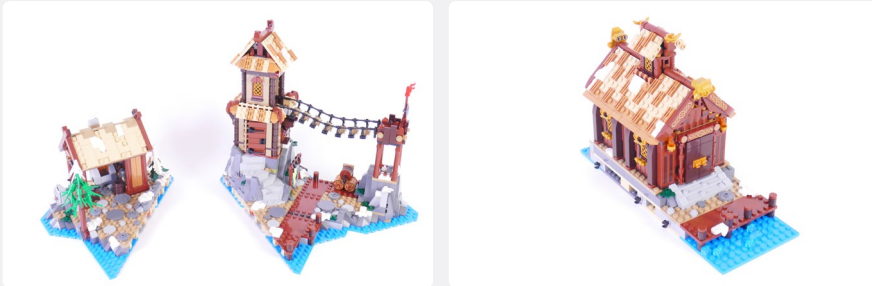
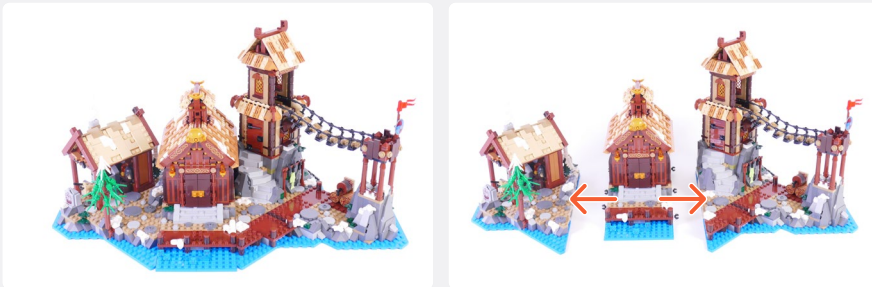


Si vous rencontrez des problèmes avec votre kit Light My Bricks, regardez notre vidéo de dépannage ou consultez la liste des causes les plus fréquentes pour vous aider à les résoudre ici.

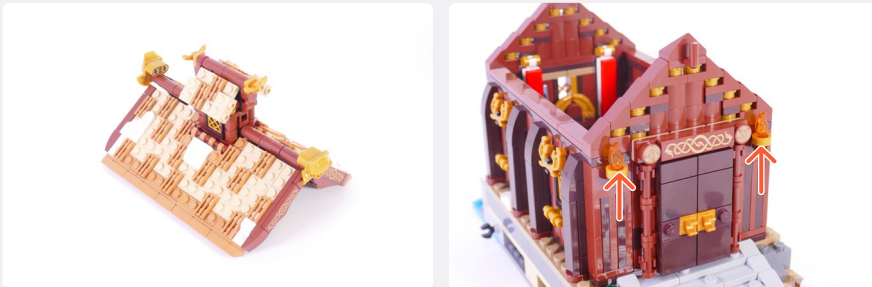
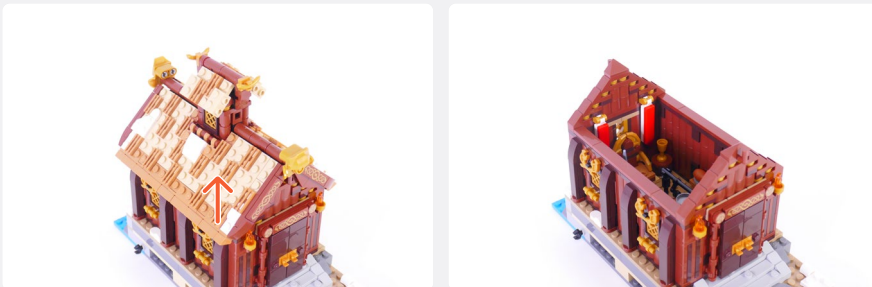


Se si verificano problemi con il set Light My Bricks, guardare il nostro video per la risoluzione dei problemi o leggere l'elenco delle cause più comuni per la risoluzione dei problemi qui.

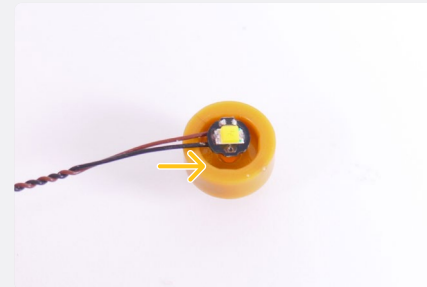
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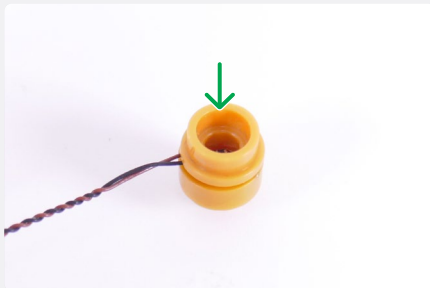


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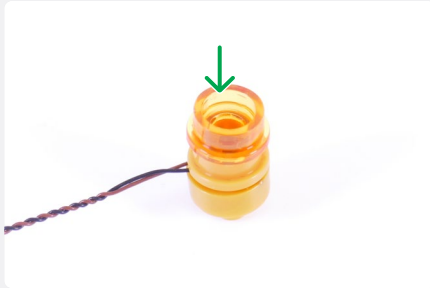


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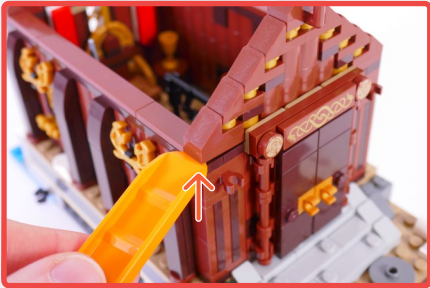
Plate, Round 1x1 with Open Stud - Trans-Orange

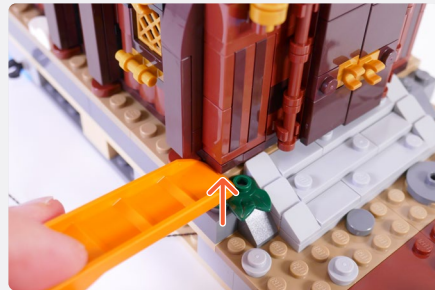


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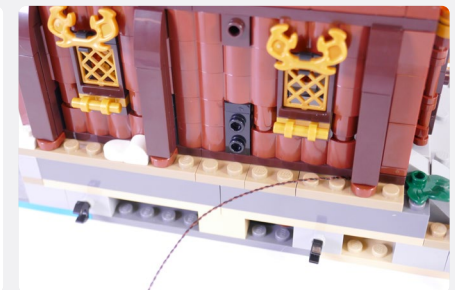
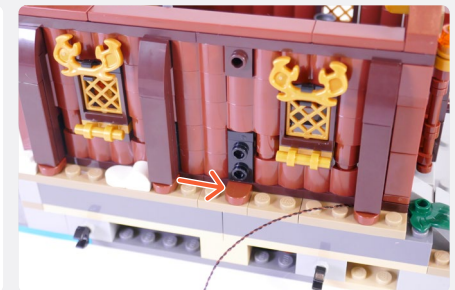
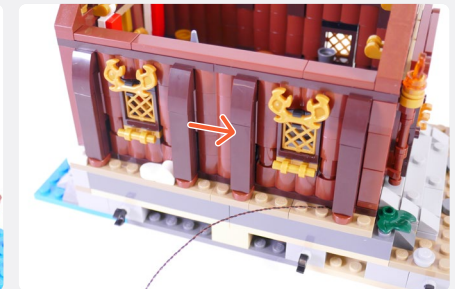
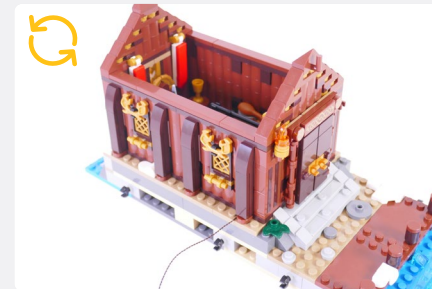
NOTE
Use the LEGO Brick Separator Tool to pry apart sections during this guide.

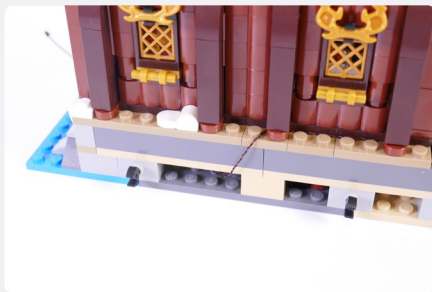
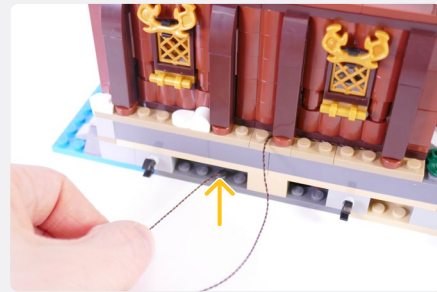
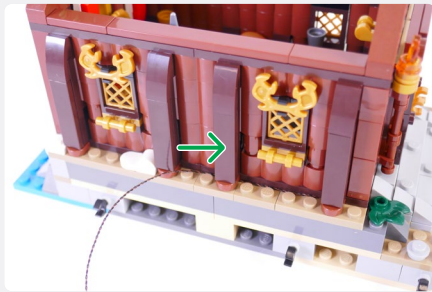
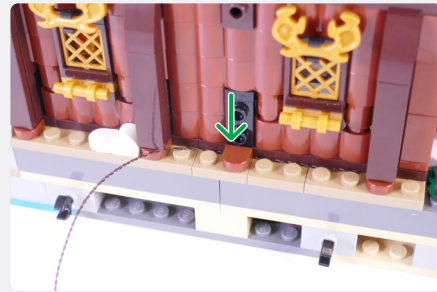
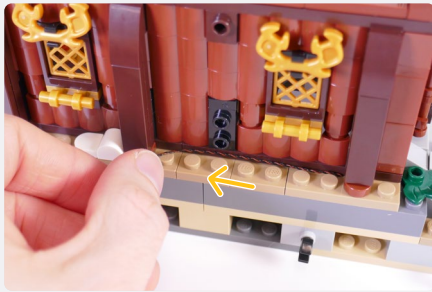


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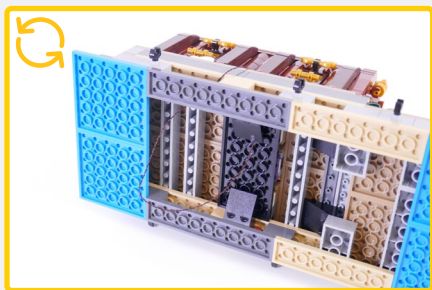
NOTE

Thread the Bit Light cable from the candle under the wall out to the other side.

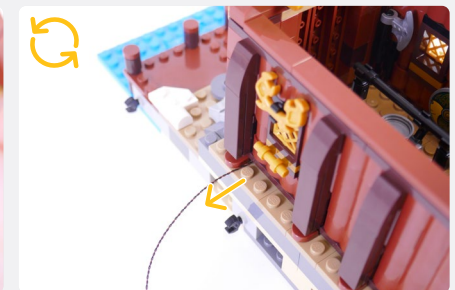
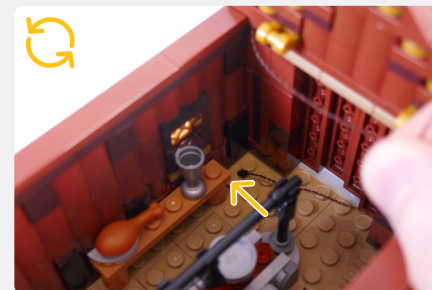

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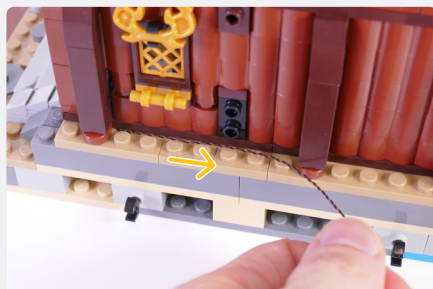
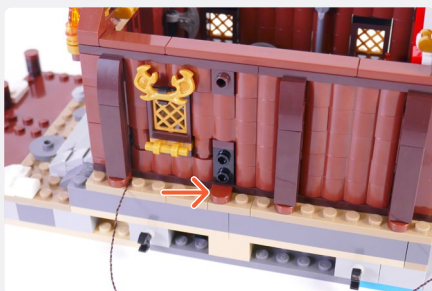
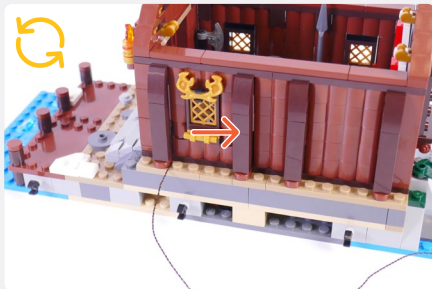
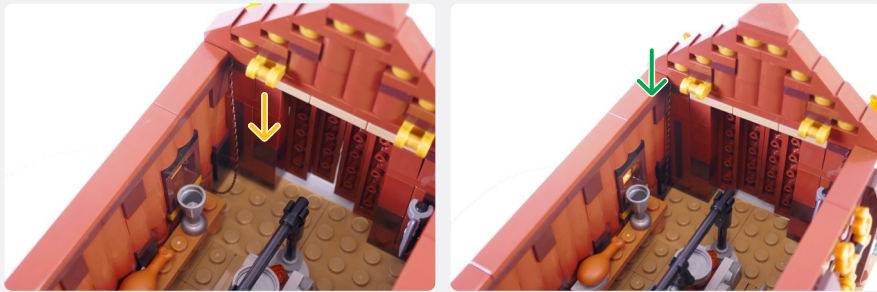
NOTE
 Leave the cable here for later. Take care when flipping the set back over to not damage the cable end.



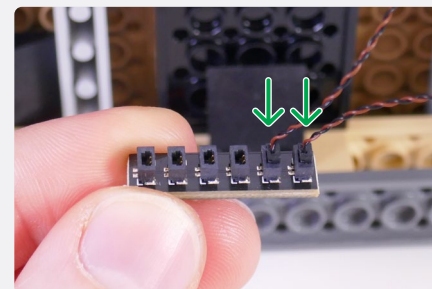
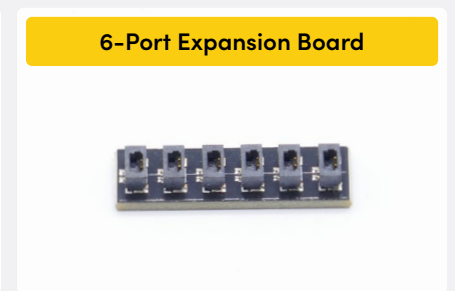
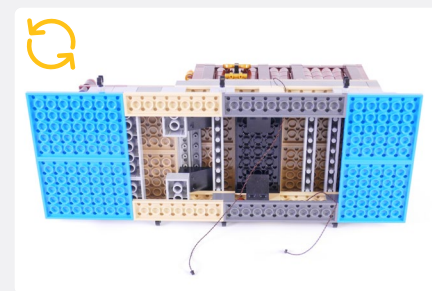
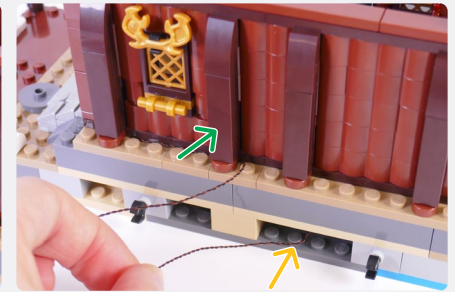
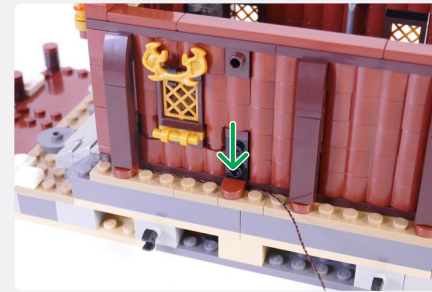
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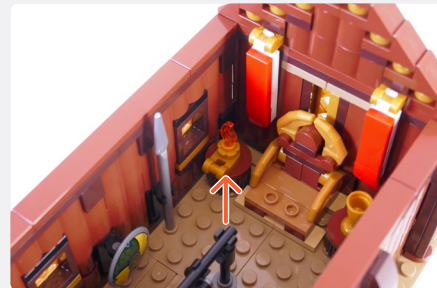


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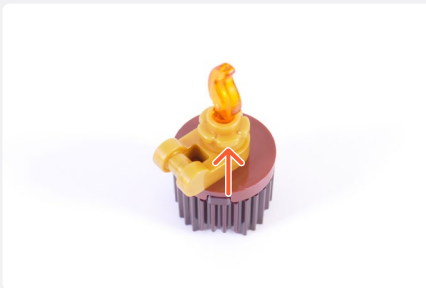


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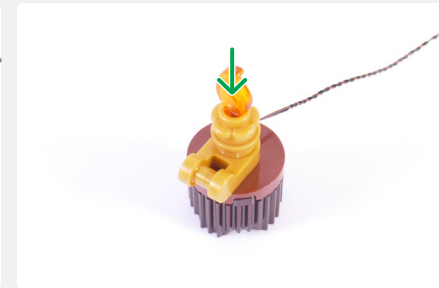
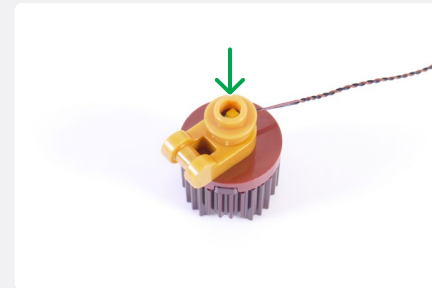
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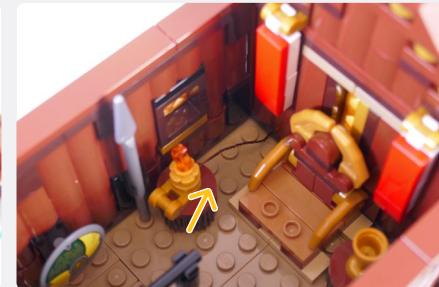
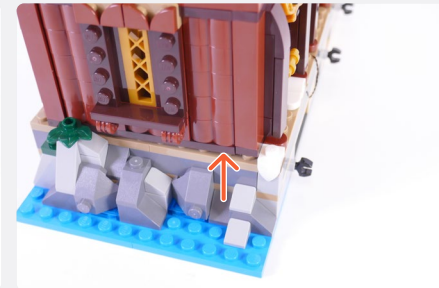
White 30cm Bit Light

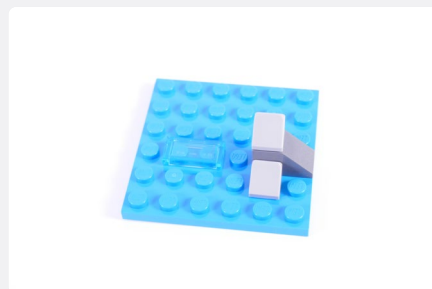
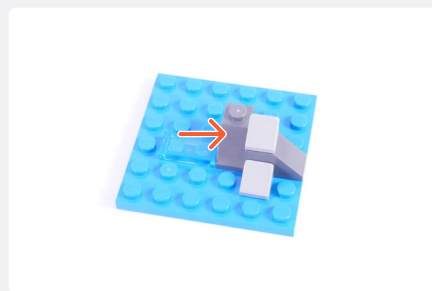
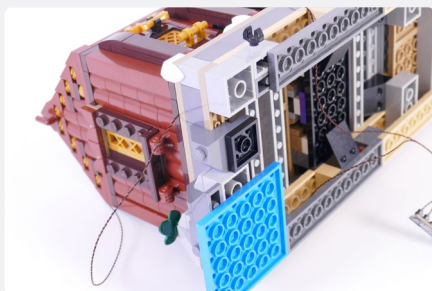
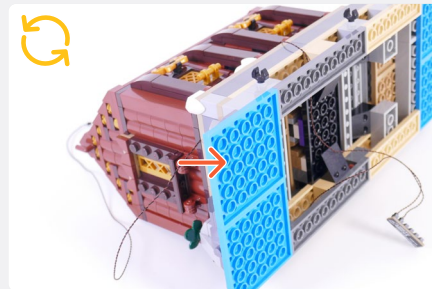
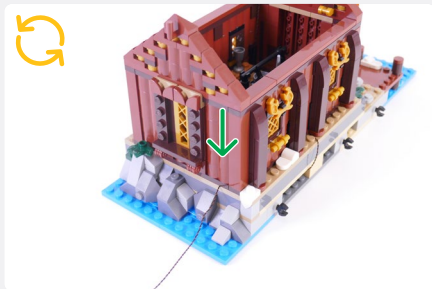
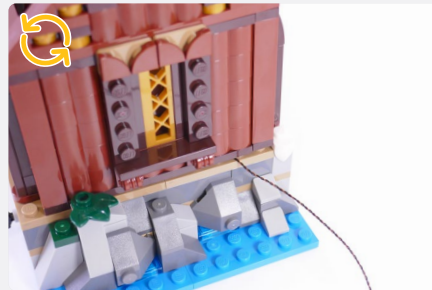


Plate, Round 1x1 with Open Stud - Pearl Gold

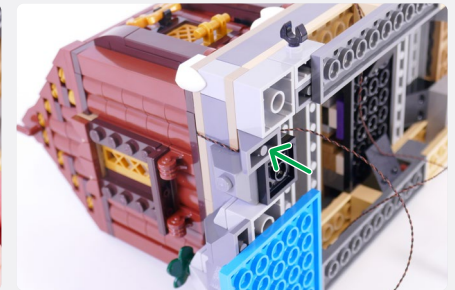
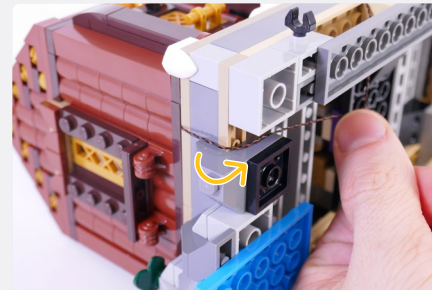


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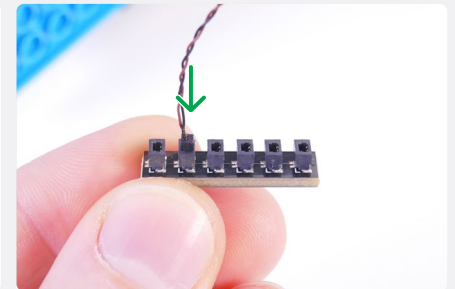
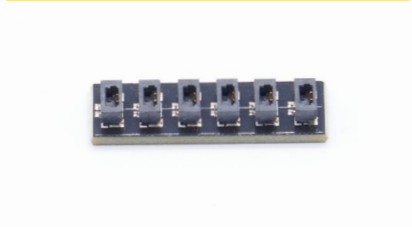




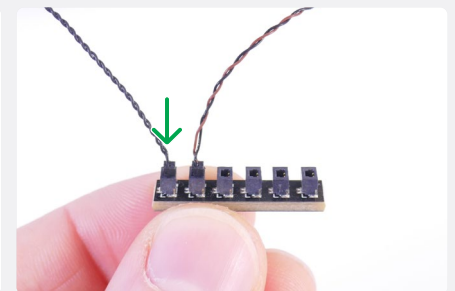
12



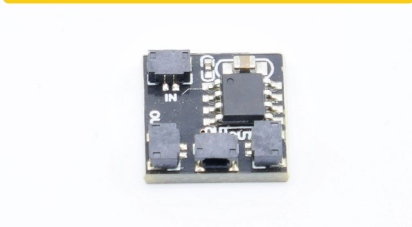
6-Port Expansion Board



5cm Connecting Cable



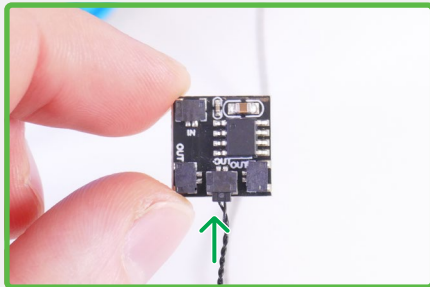
Flicker Effects Board



NOTE

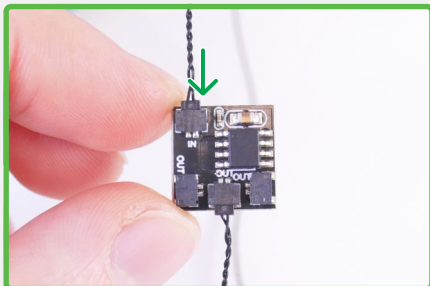
Connect the 5cm Connecting Cable from the 6-Port Expansion Board into the "OUT" port of the Flicker Effects Board

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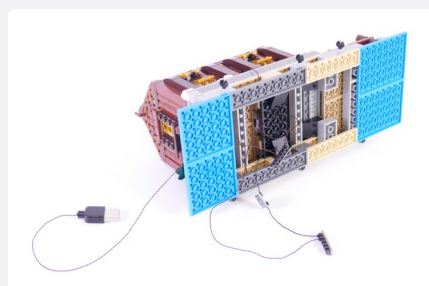
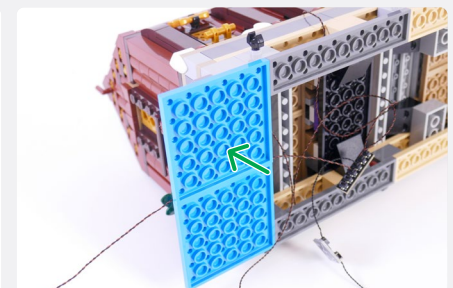
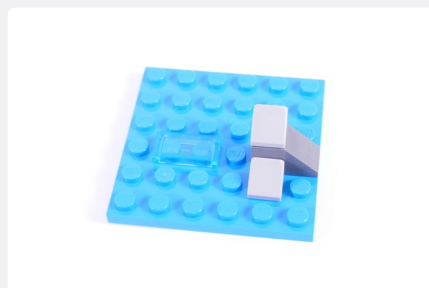
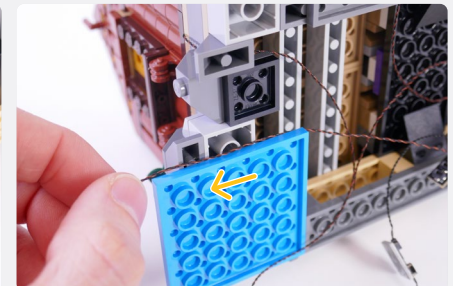
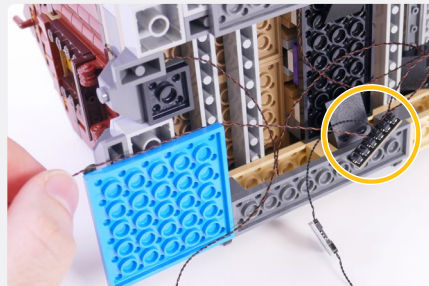
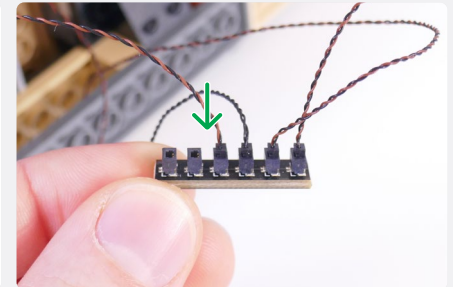
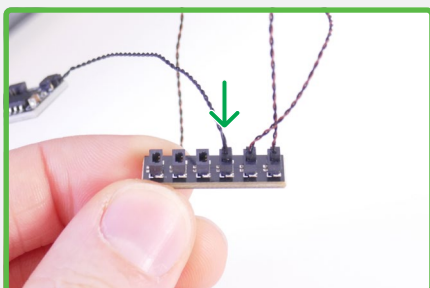
NOTE

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



NOTE

Connect the other end of the 5cm Connecting Cable into the previous 6-Port Expansion Board from Step 9.



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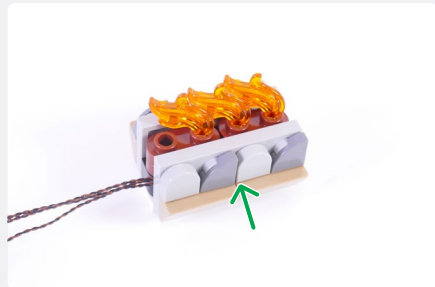
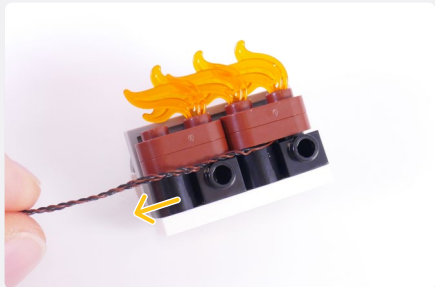
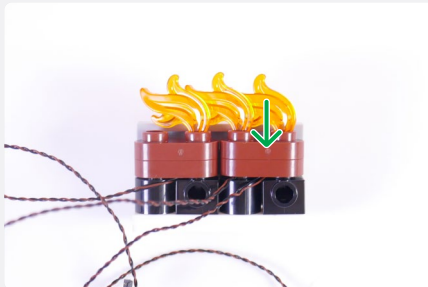
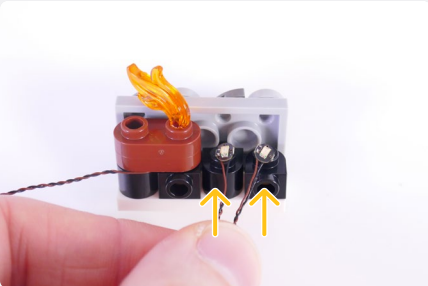
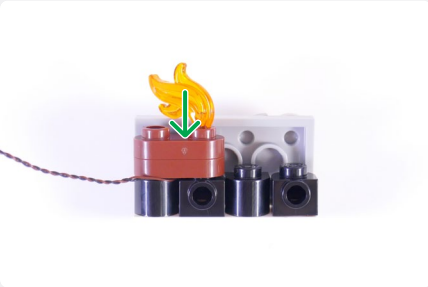


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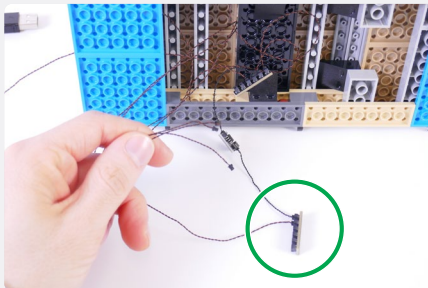
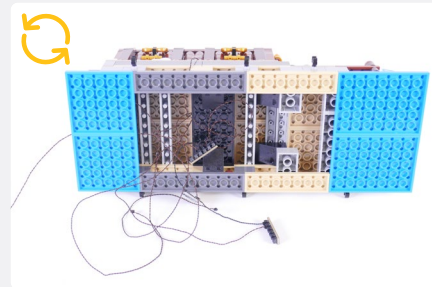


2x Orange 30cm Bit Light

16

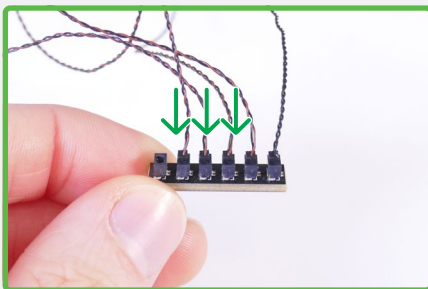


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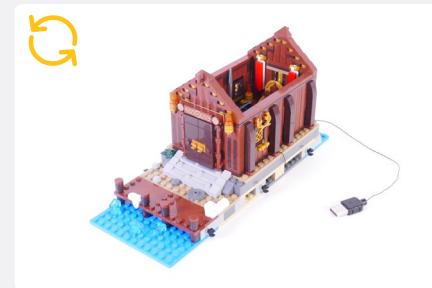
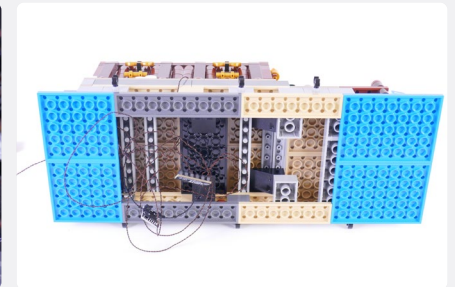
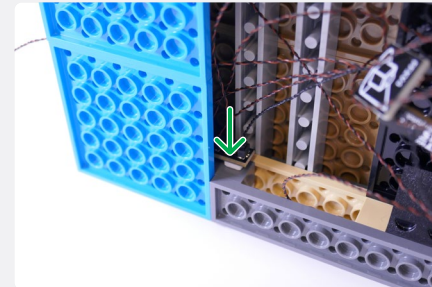
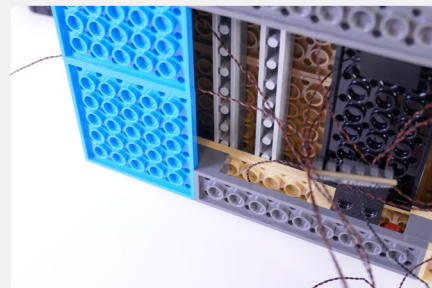
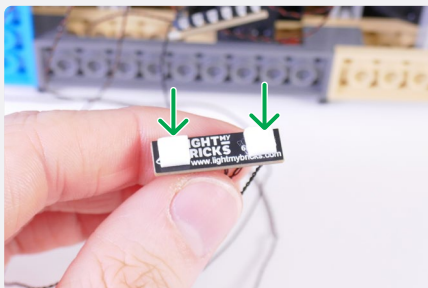


NOTE

Connect the three Orange Bit Lights into the 6-Port Expansion Board connected to the "OUT" port of the Flicker Effects Board.

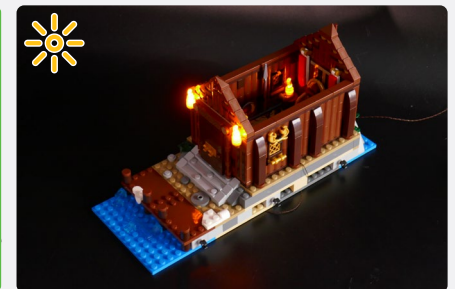


2x Adhesive Square



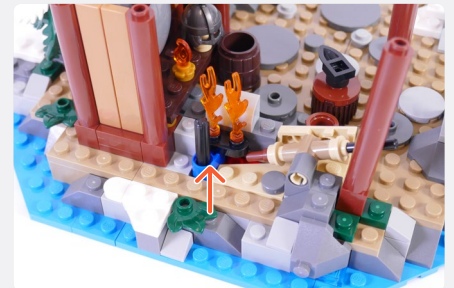
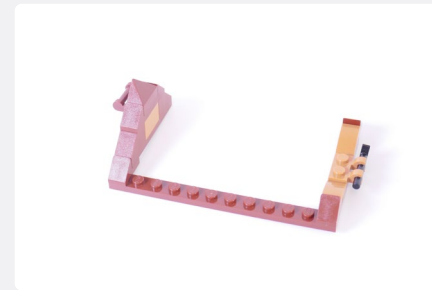
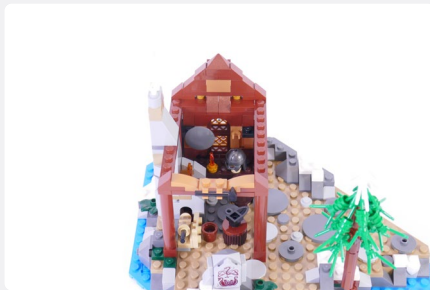
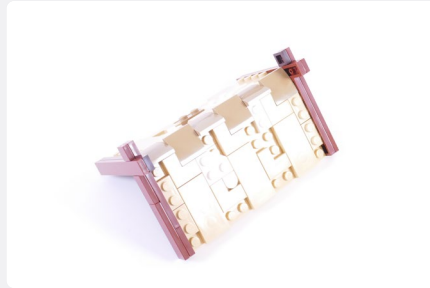
NOTE

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

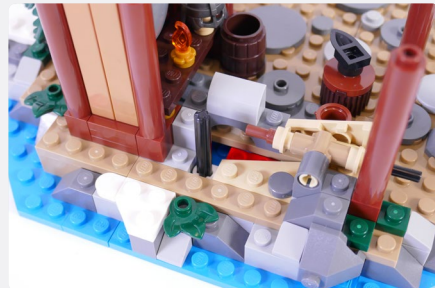


! If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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

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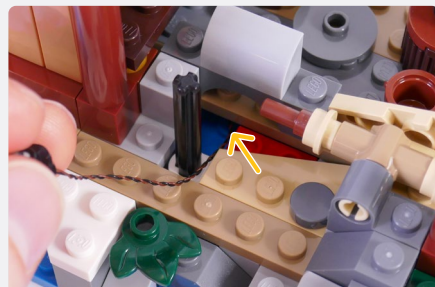
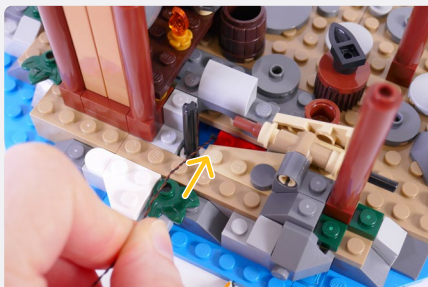


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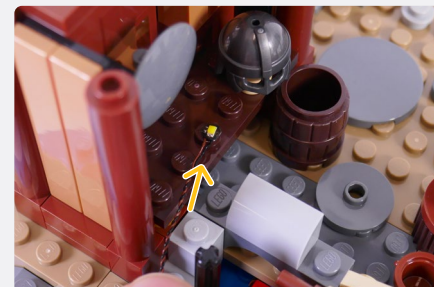
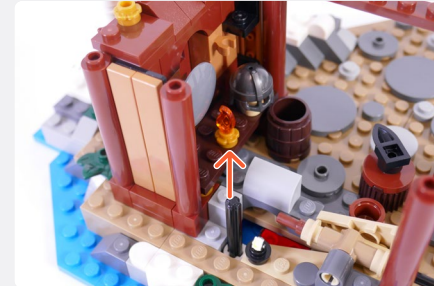
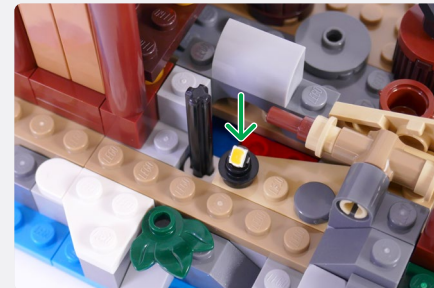


Plate, Round 1x1 with Open Stud - Black

Orange 30cm Large Bit Light

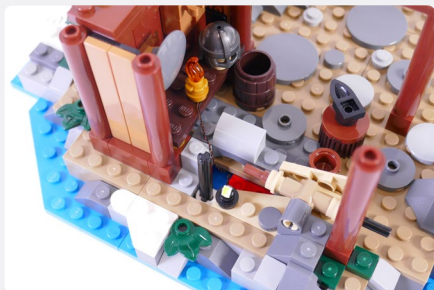
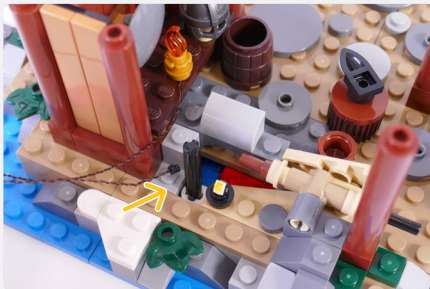
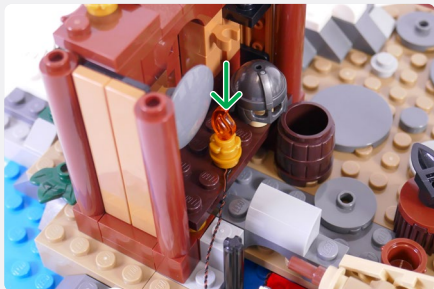
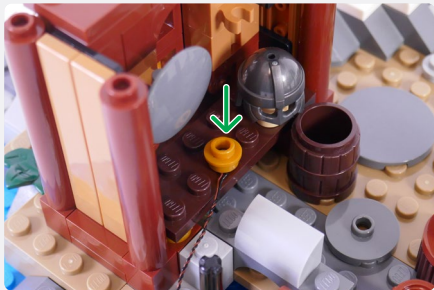


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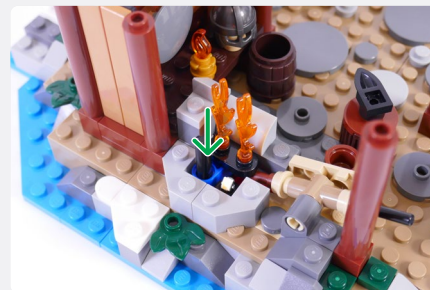
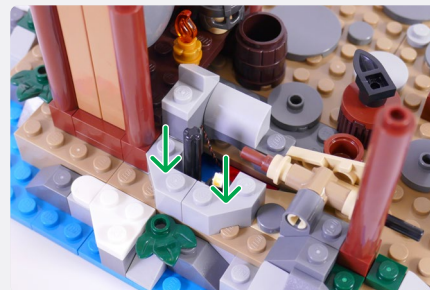
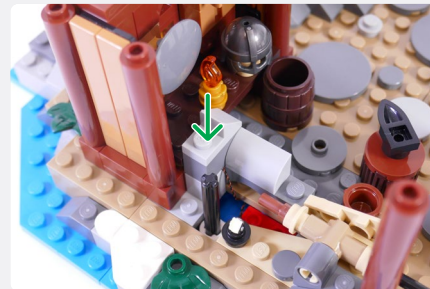
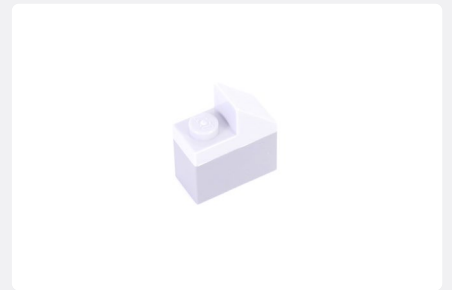
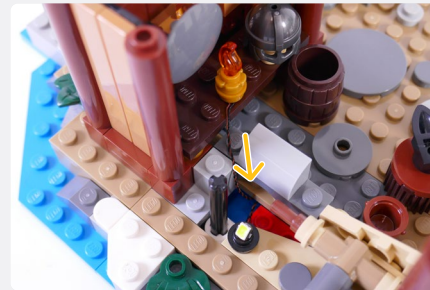


White 30cm Bit Light

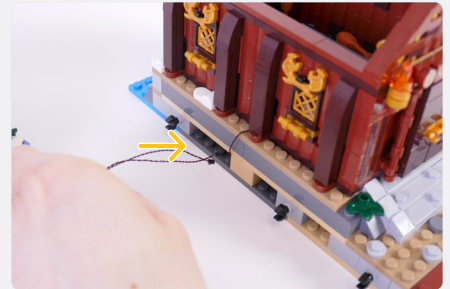
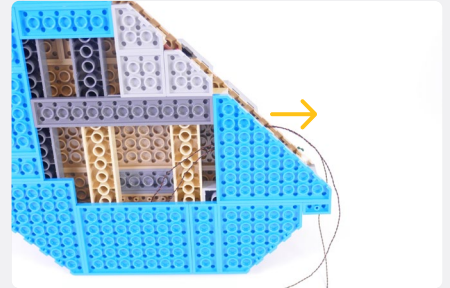
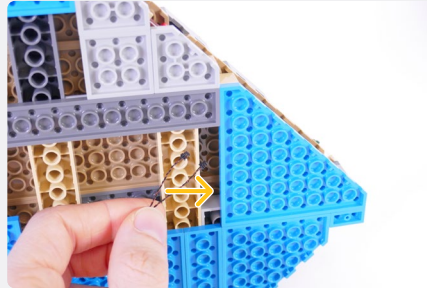
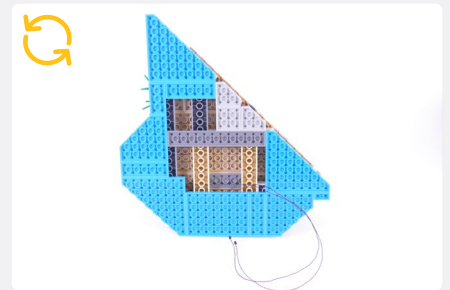
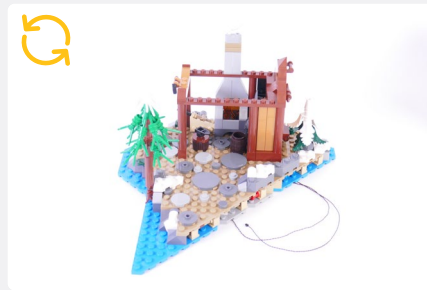
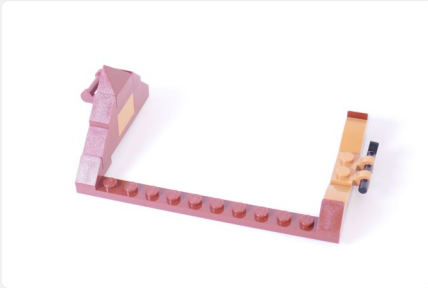
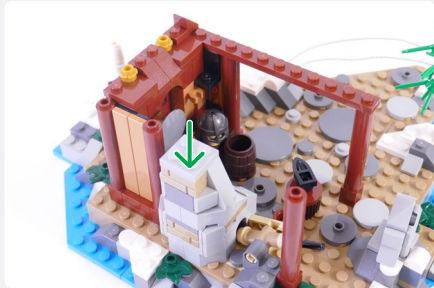
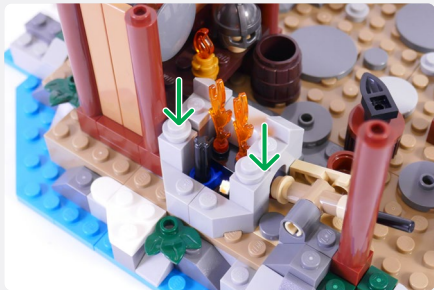
Plate, Round 1x1 with Open Stud - Pearl Gold



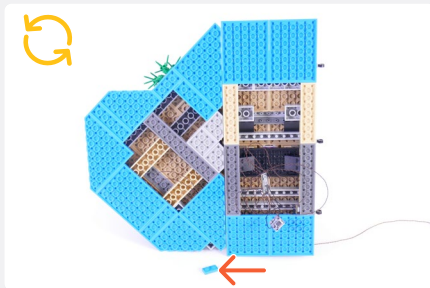
21



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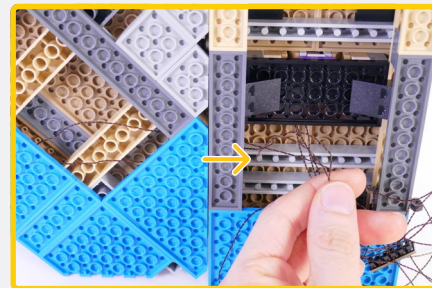


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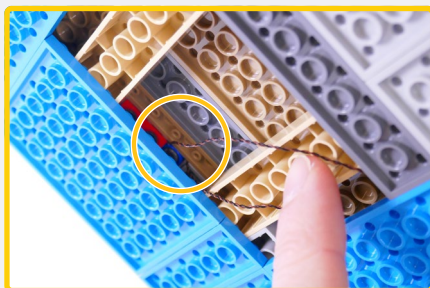
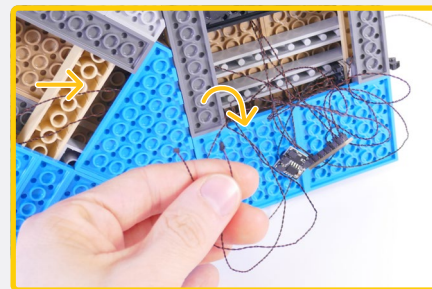
NOTE

Ensure the cables are not stuck between the sections when connected.



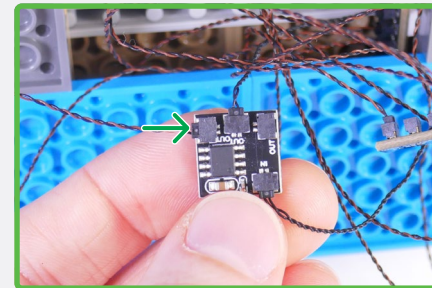
NOTE

Take the cable coming from the Forge. It will be the cable on the left of the image below. Connect power to the USB to check if it is the correct light.



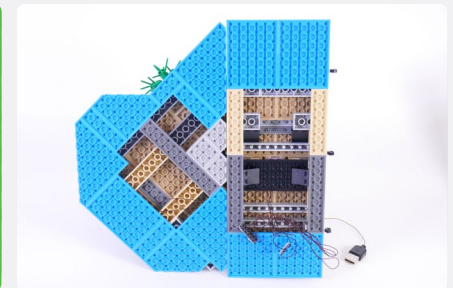
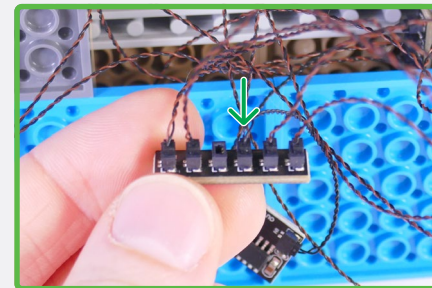
NOTE

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



NOTE

Connect the other Bit Light to the 6-Port Expansion Board from Step 9.



NOTE

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

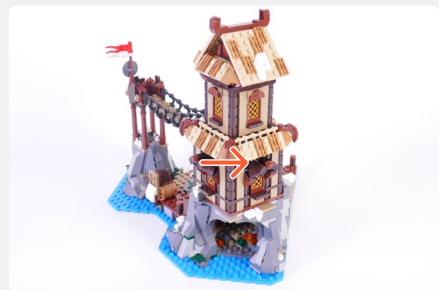




! If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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



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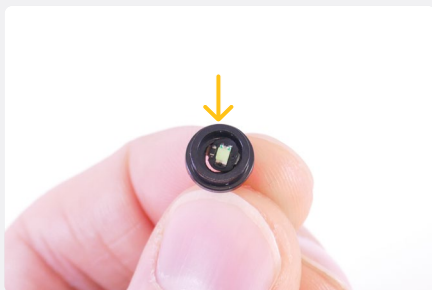
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Light Blue 30cm Bit Light



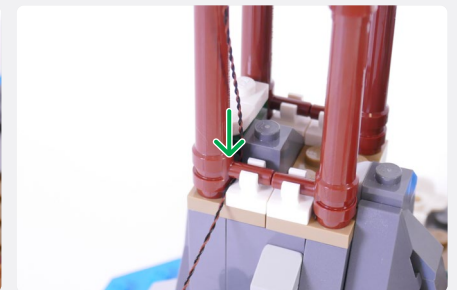
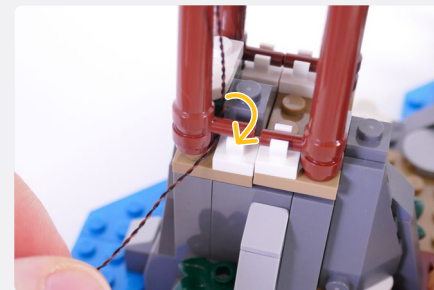
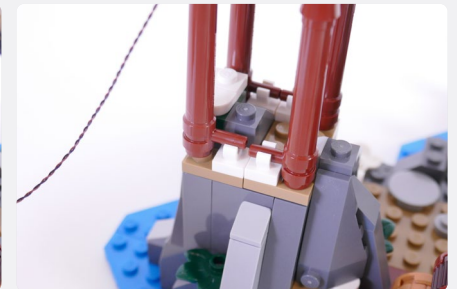
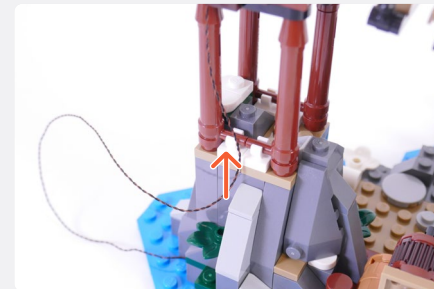
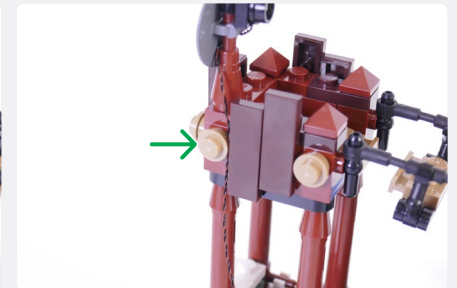
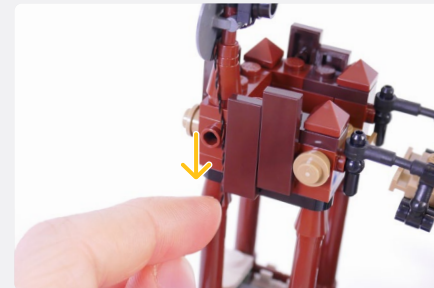
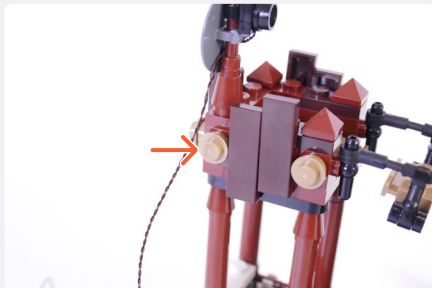
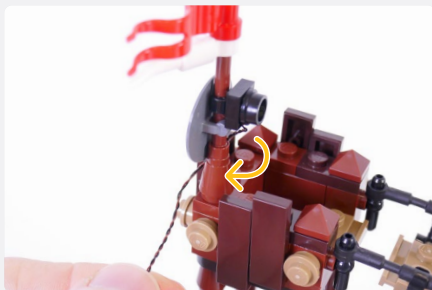
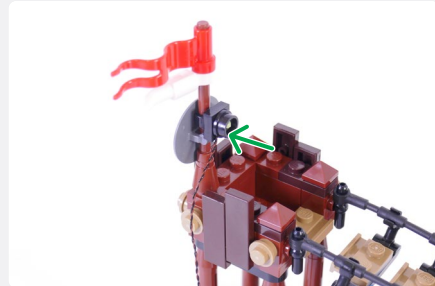
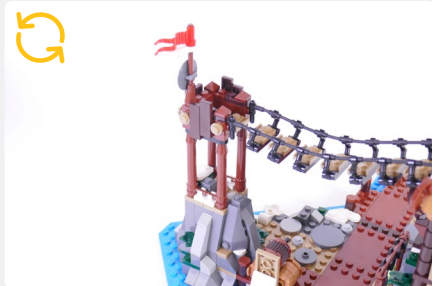
Plate, Round 1x1 with Open Stud - Black



Tile, Modified 1x1 with Open O Clip
- Black



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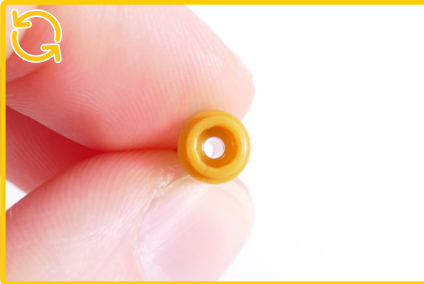
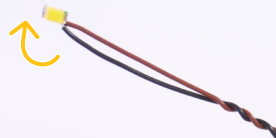
White 30cm Micro Bit Light



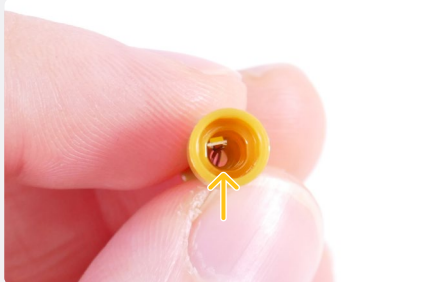
NOTE

Gently bend the yellow LED sideways to fit inside the bottom of the telescope piece.

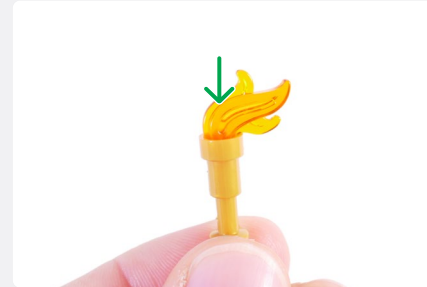
Minifigure, Utensil Telescope - Gold



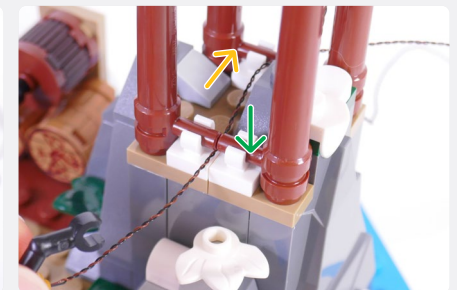
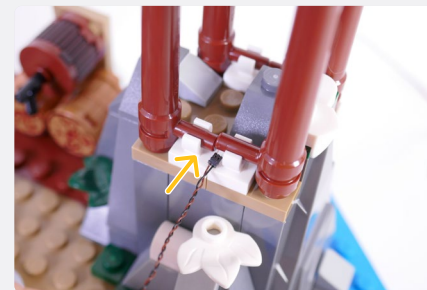
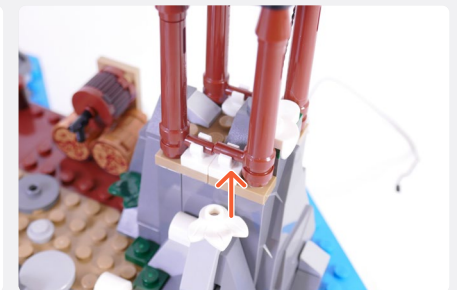
Minifigure, Plume Feather Triple Compact/Flame/Water - Trans-Orange

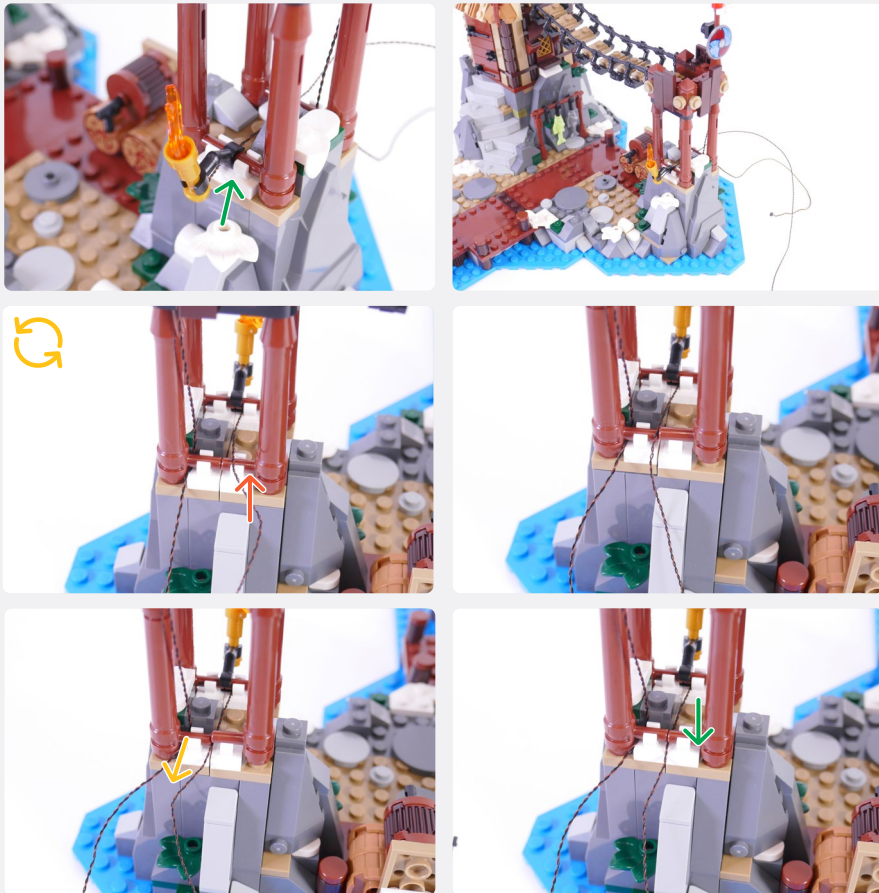


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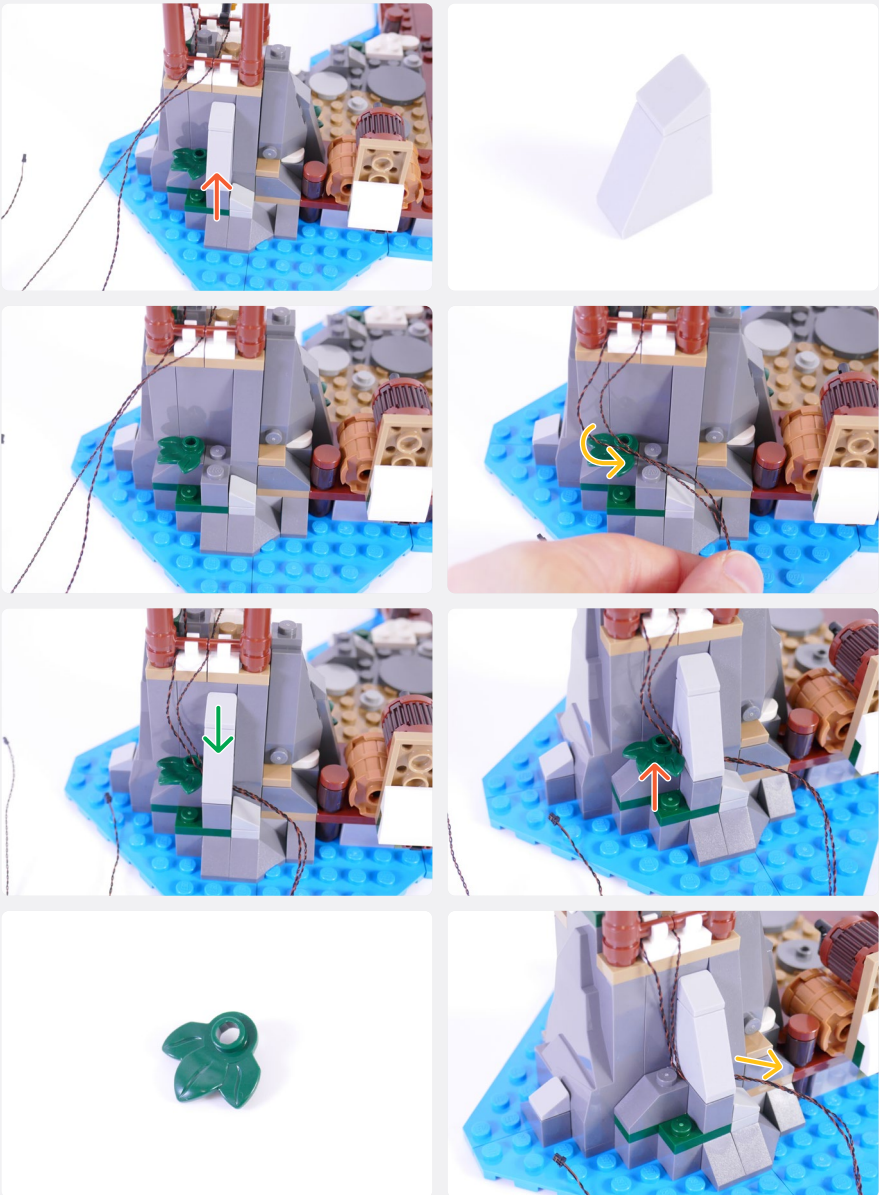


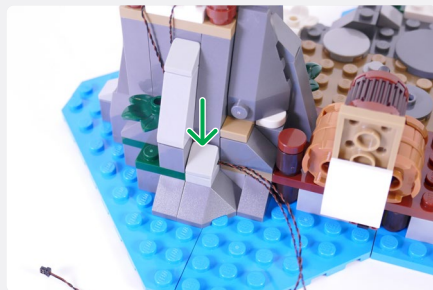
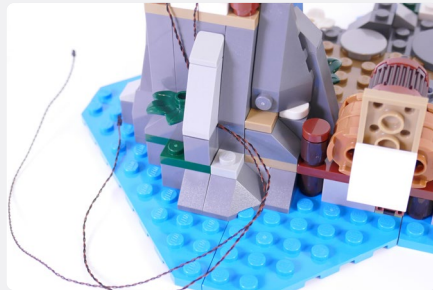
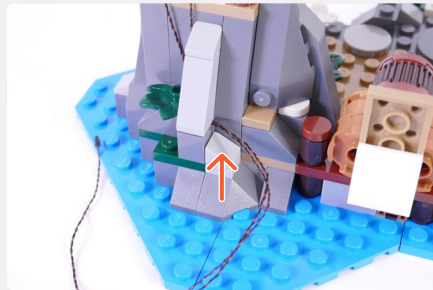
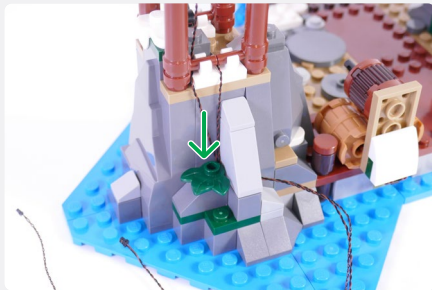
Arm Skeleton, Bent with Clips at 90 degrees (Vertical Grip) - Black



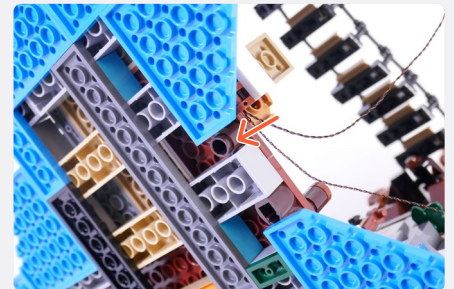
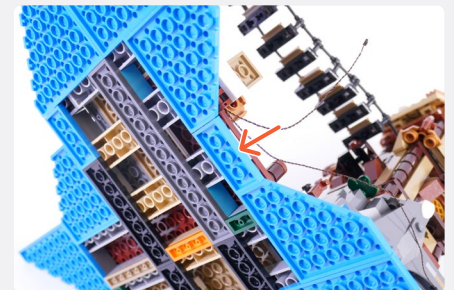
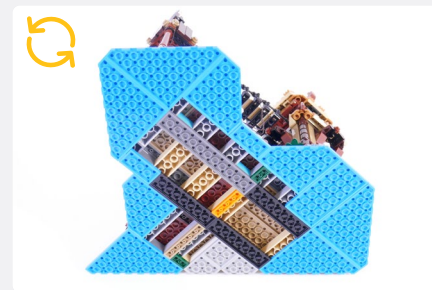
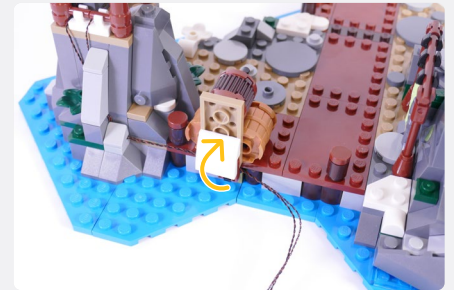
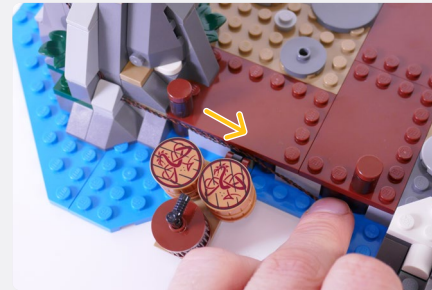
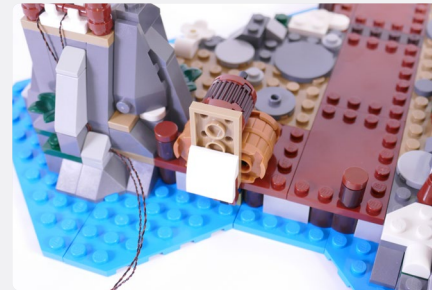


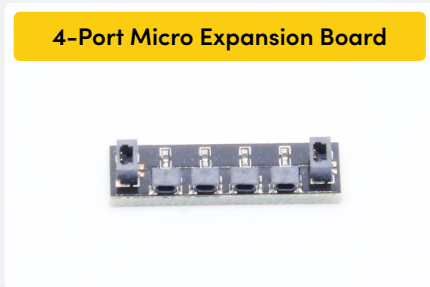
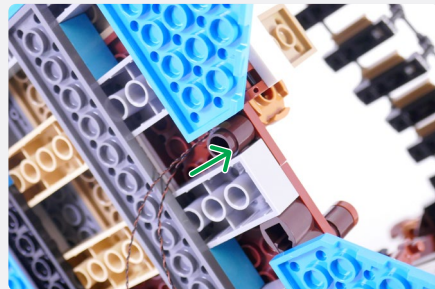
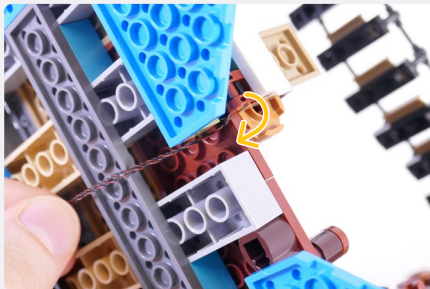
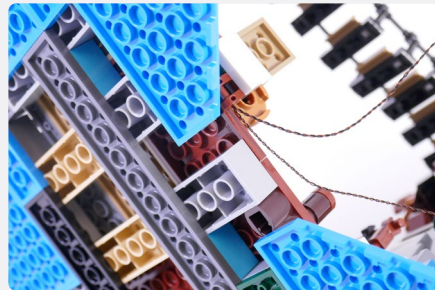
29





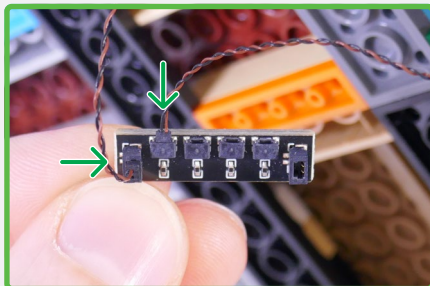
30



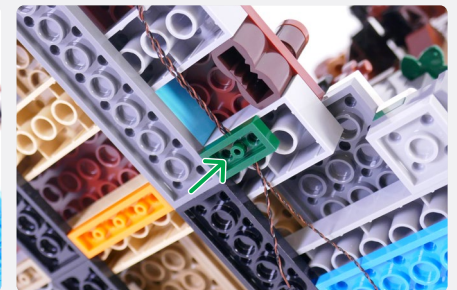
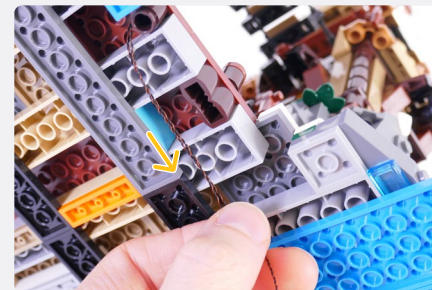
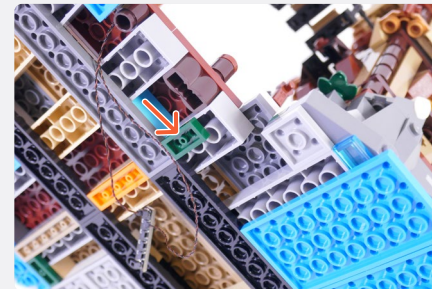
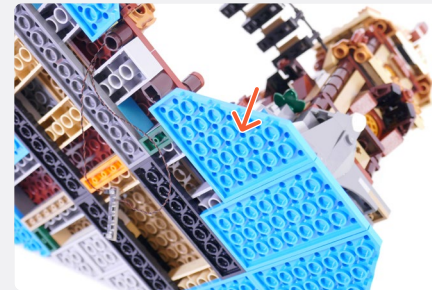


NOTE

Connect the Bit Light plug into the larger socket. Connect the Micro Bit Light into the small socket.



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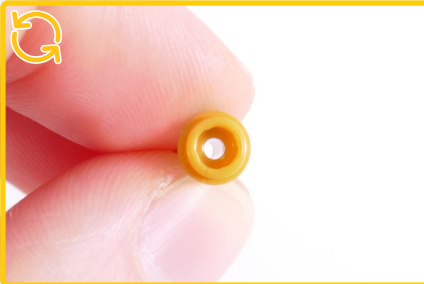
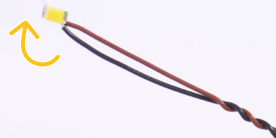
White 30cm Micro Bit Light



NOTE

Gently bend the yellow LED sideways to fit inside the bottom of the telescope piece.

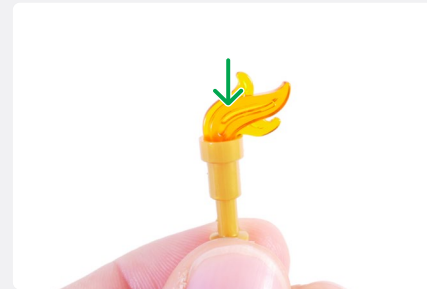
Minifigure, Utensil Telescope - Gold



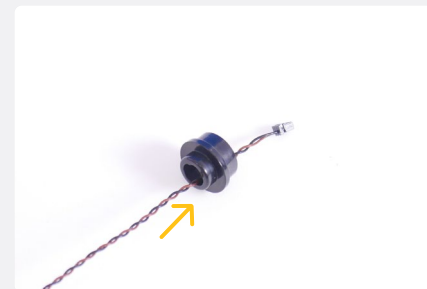
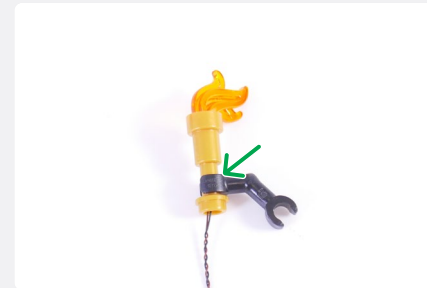
Minifigure, Plume Feather Triple Compact/Flame/Water - Trans-Orange



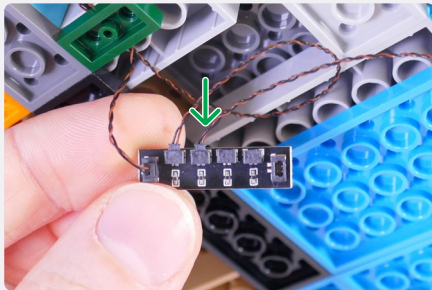
Arm Skeleton, Bent with Clips at 90 degrees (Vertical Grip) - Black



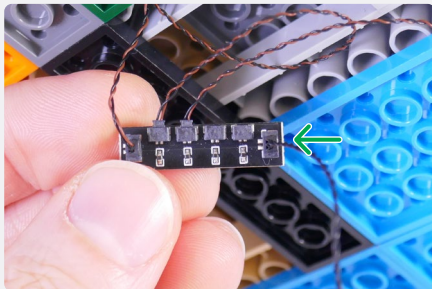
Plate, Round 1x1 with Open Stud - Black



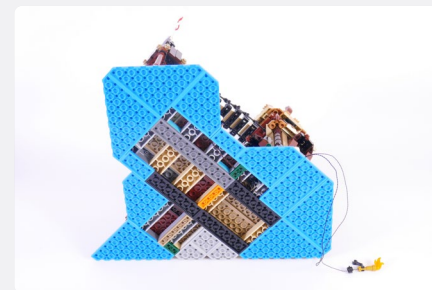
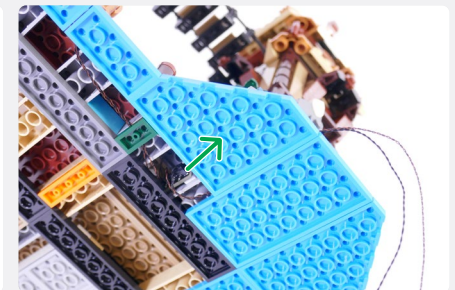
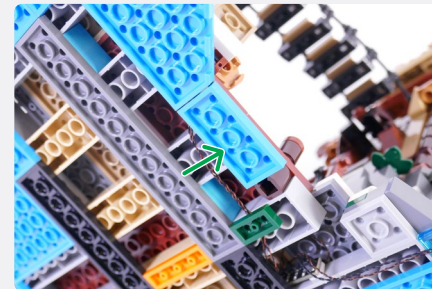
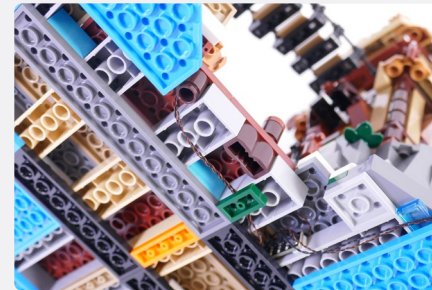
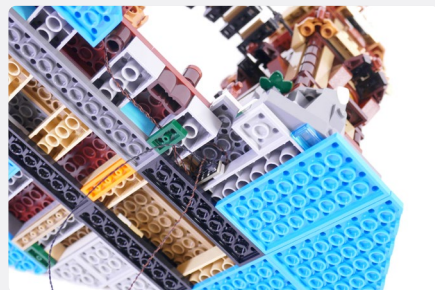
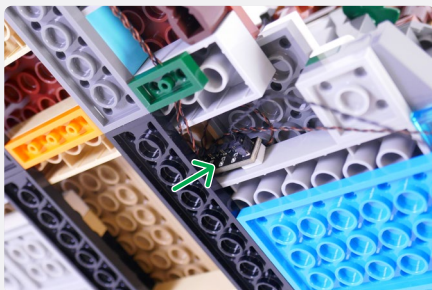
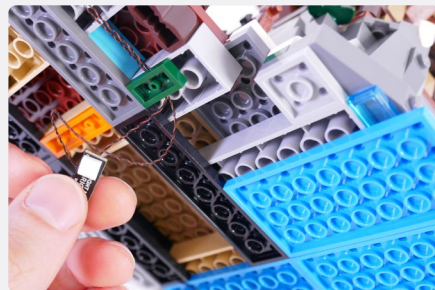
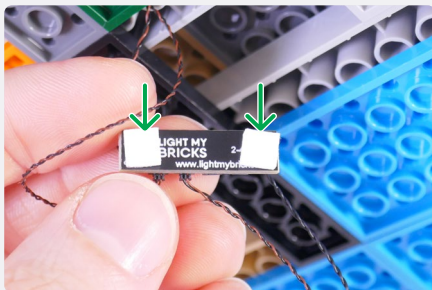
33



30cm Connecting Cable



2x Adhesive Square

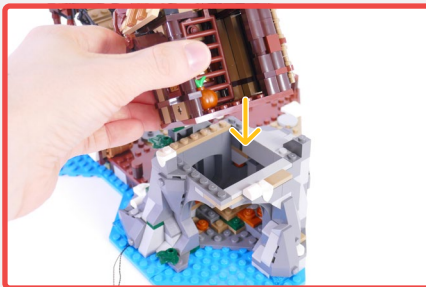
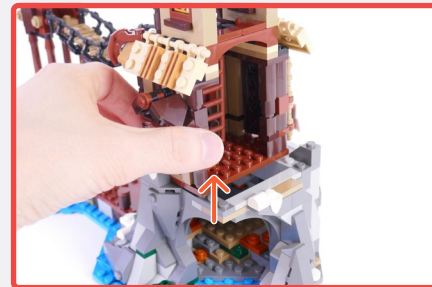


34

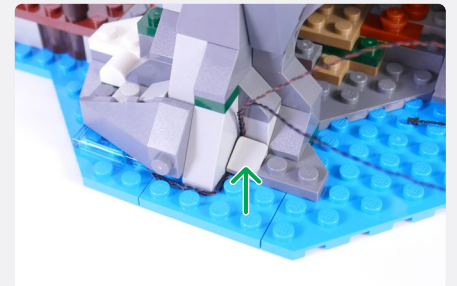
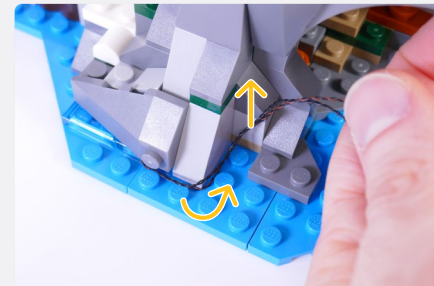
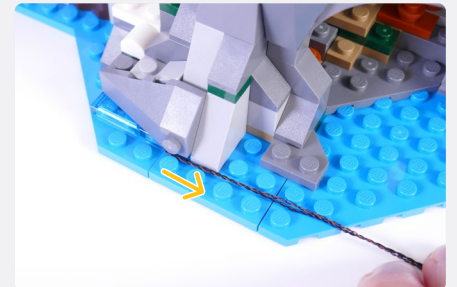
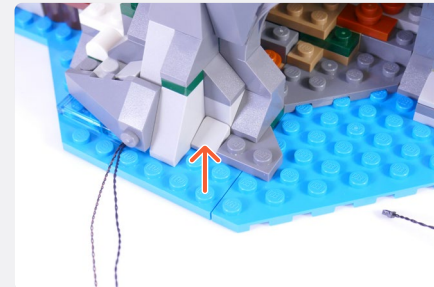
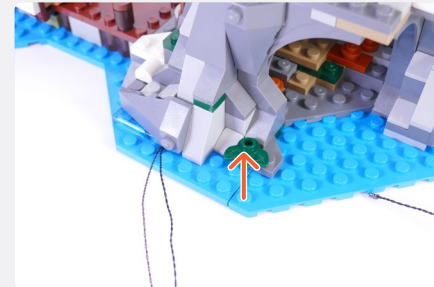


NOTE

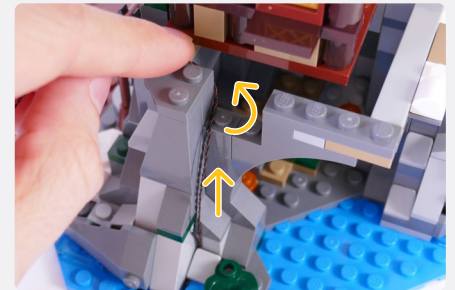
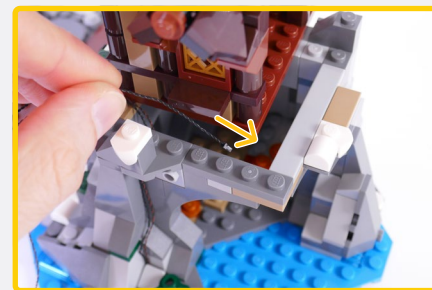
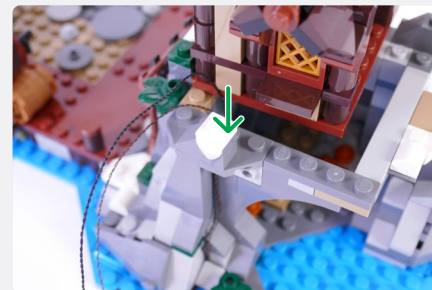
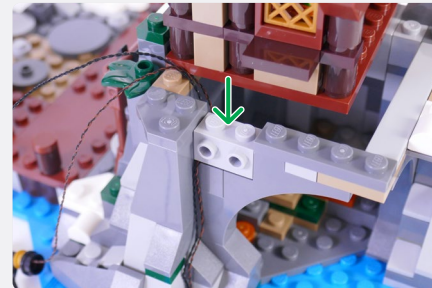
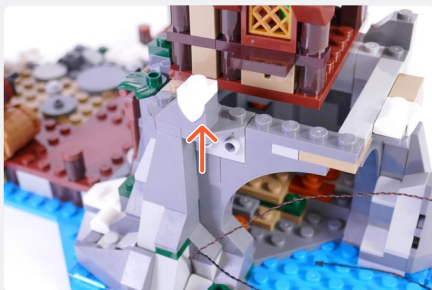
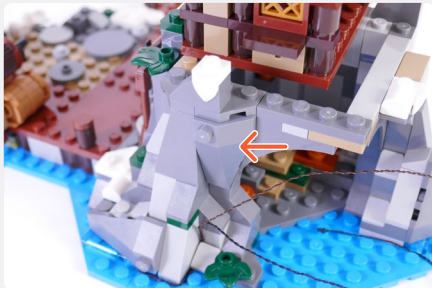
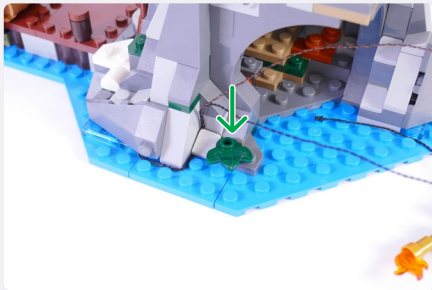
Disconnect the tower section from the base, but do not remove from set. Place it down where shown.




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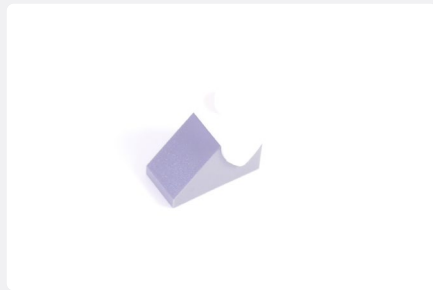



 **NOTE**

Run the black cable through the hole and out the cave.

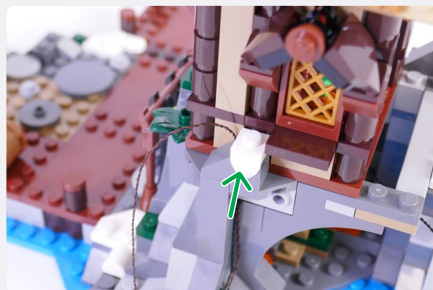
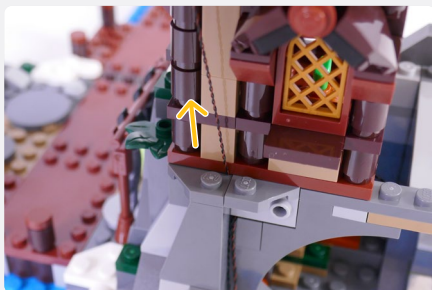


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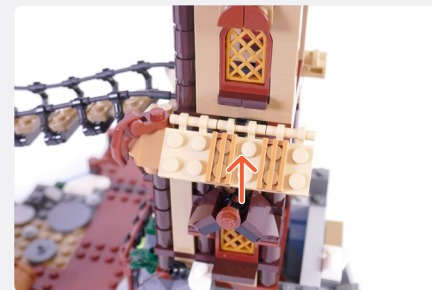
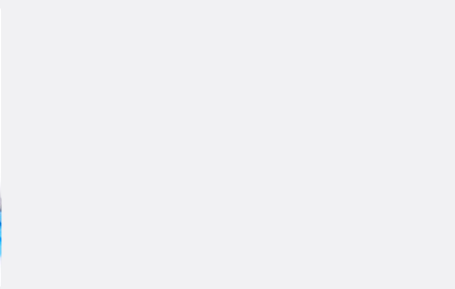
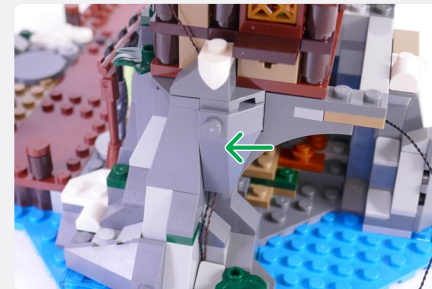


 **NOTE**

Reconnect the tower section in the same place it was removed from.

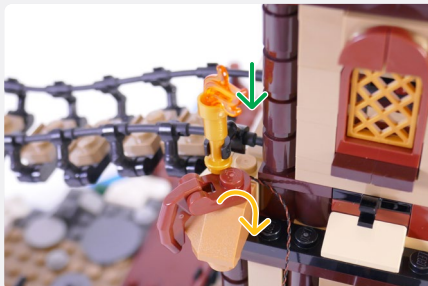


38



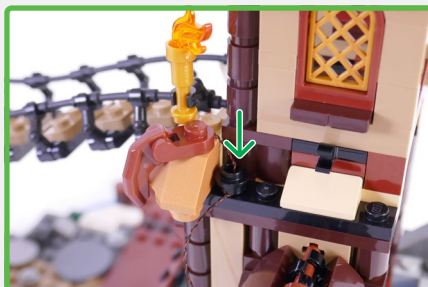
NOTE

Take the torch that was made before and connect the black bracket to the bridge rope.



NOTE

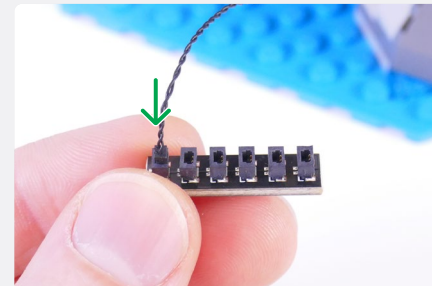
Take the black open stud piece on the Bit Light cable and attach it to the set.



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6-Port Expansion Board



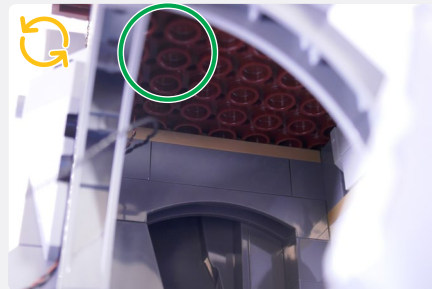
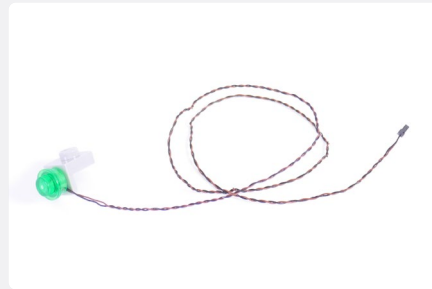
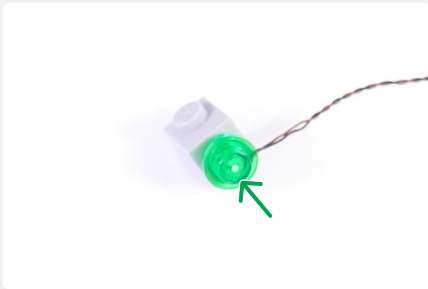
Light Blue 30cm Bit Light


Bracket 1x1 - 1x1 - Light Bluish Gray



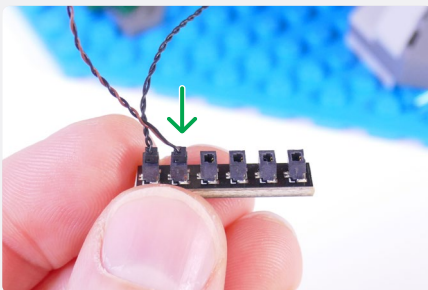
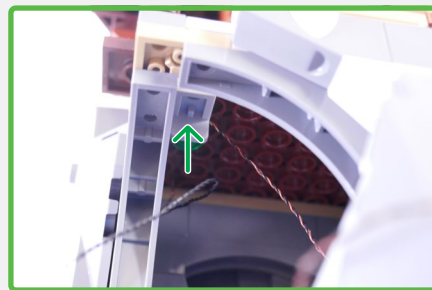
Plate, Round 1x1 - Trans-Dark Green

40



 **NOTE**

Connect the grey bracket piece to the ceiling of the cave.

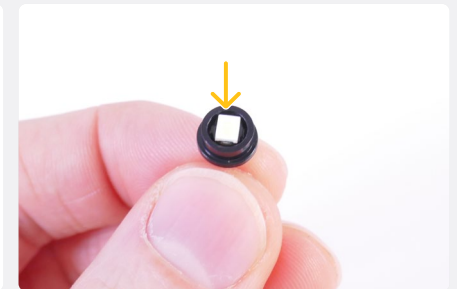


41

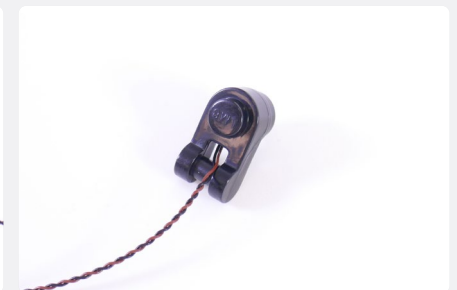
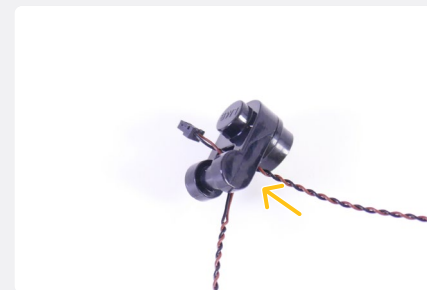
Plate, Round 1x1 with Open Stud - Black



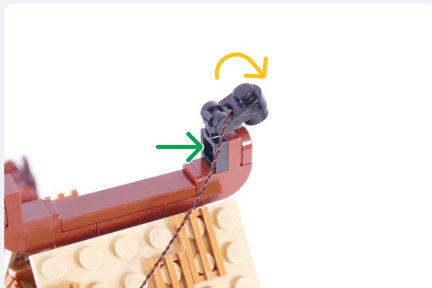
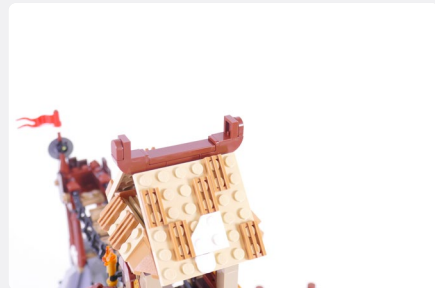
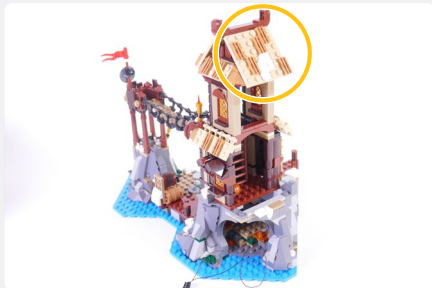
Light Blue 30cm Large Bit Light



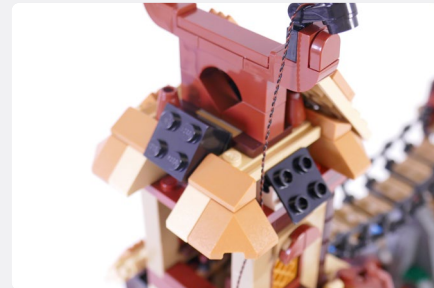
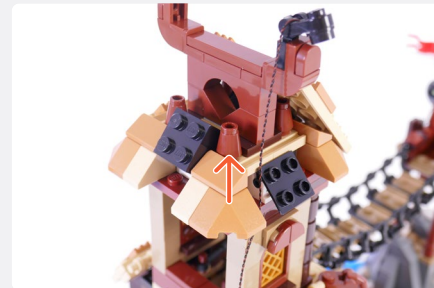
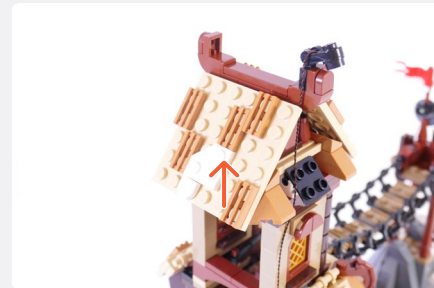
Plate, Round 1x1 with Bar Handle - Black



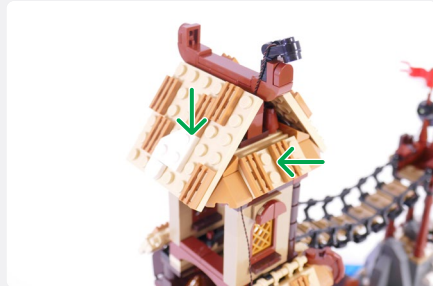
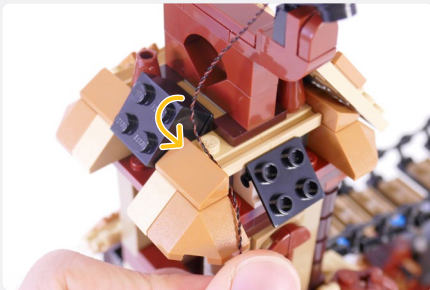
Plate, Modified 1x1 with Open O Clip (Horizontal Grip) - Black



42




43

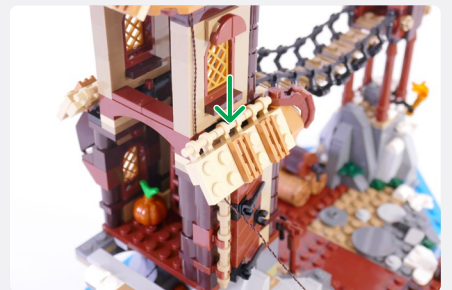
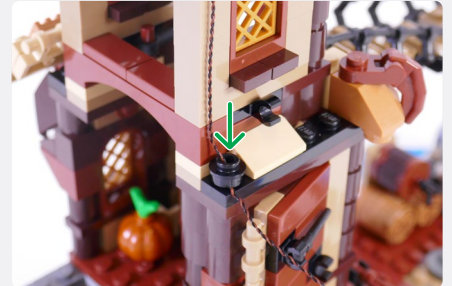
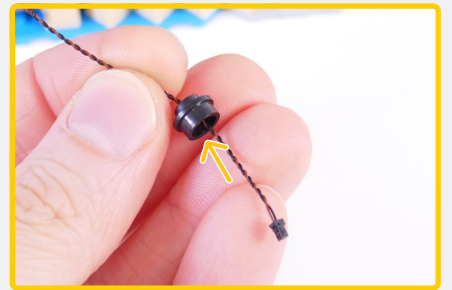


Plate, Round 1x1 with Open Stud - Black

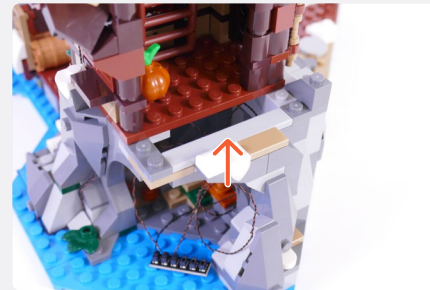


 **NOTE**

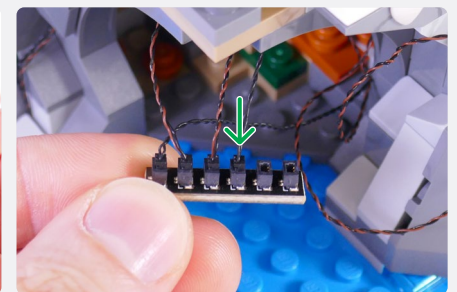
Thread the black open stud onto the the end of the hanging Bit Light cable.



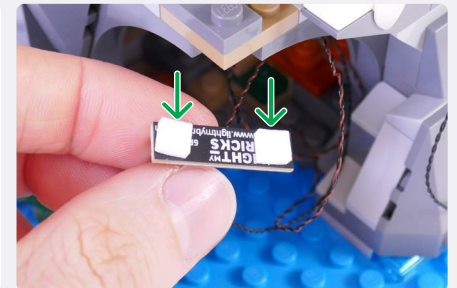
44

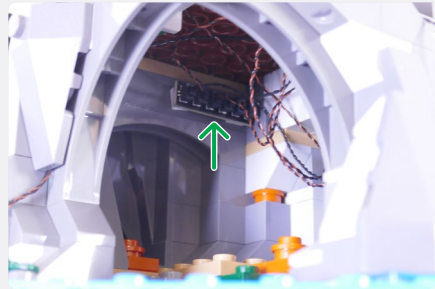
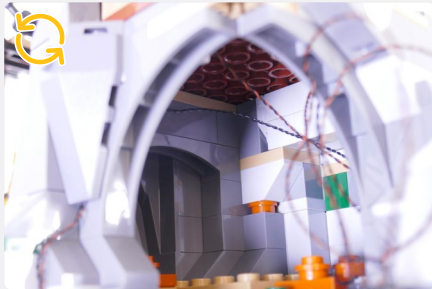


30cm Connecting Cable



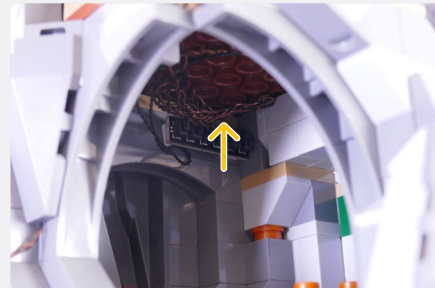
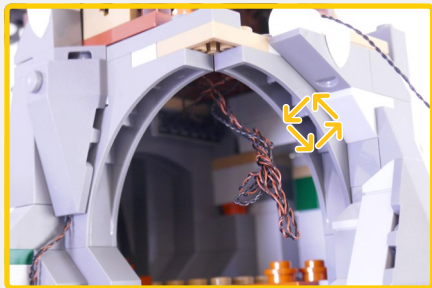
2x Adhesive Square





NOTE

Exclude the 30cm Connecting Cable from twisting.



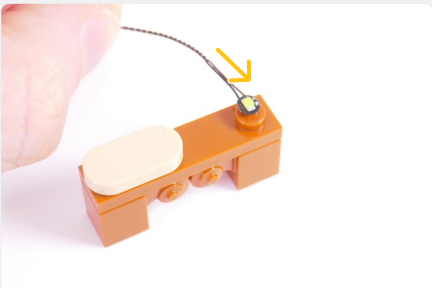
45



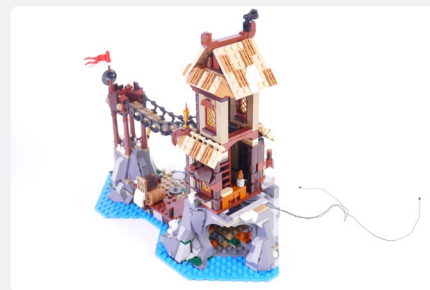
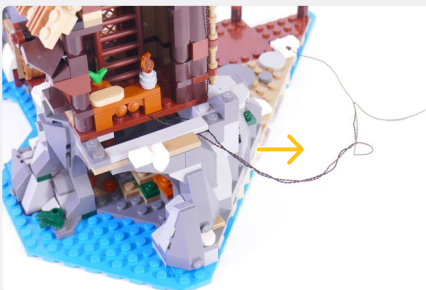
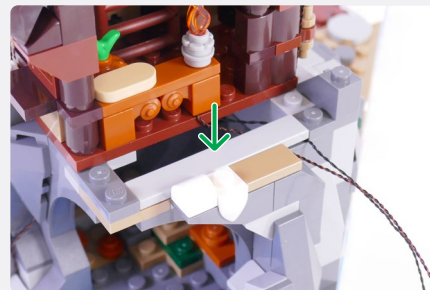
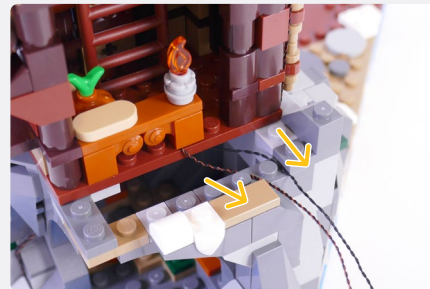
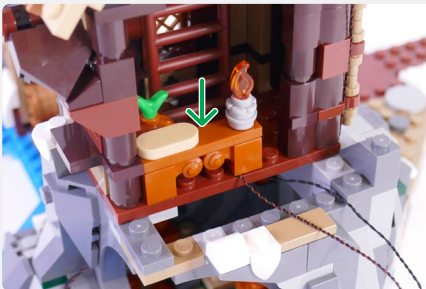
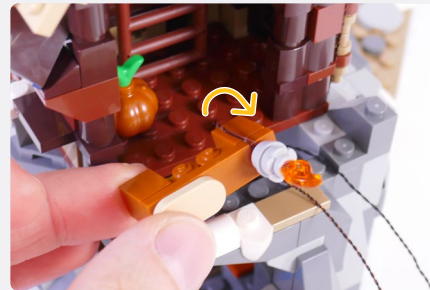
Round Plate 1x1 Open Stud - Light Gray



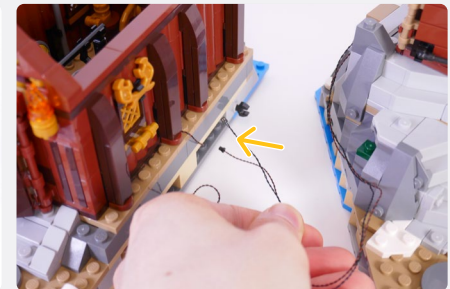
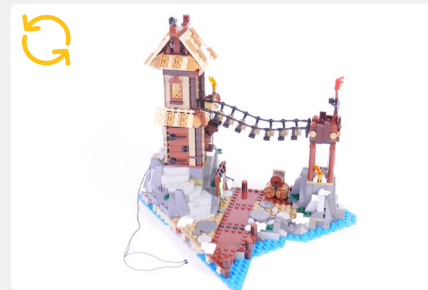
White 30cm Bit Light



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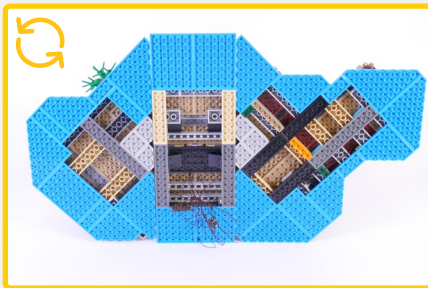


47



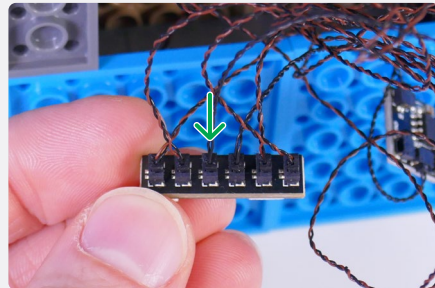
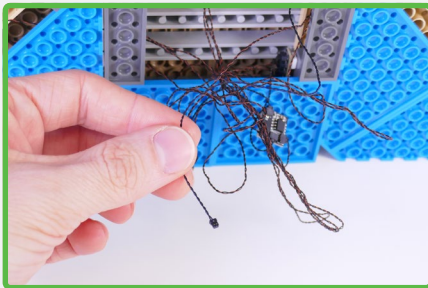
NOTE

Take care when flipping the set over. The tower section may disconnect if pressure is put on it.

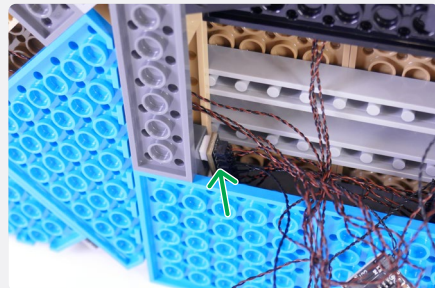
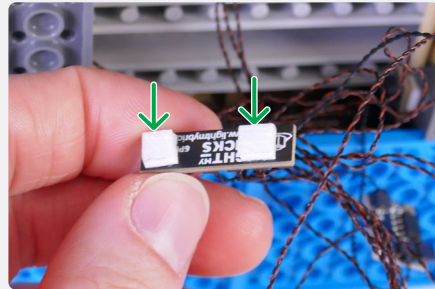


NOTE

Take the black 30cm Connecting Cable and connect it to the loose 6-Port Expansion Board.



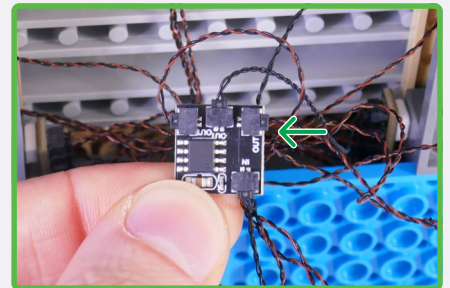
2x Adhesive Square



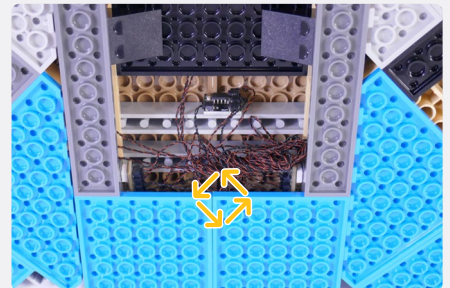
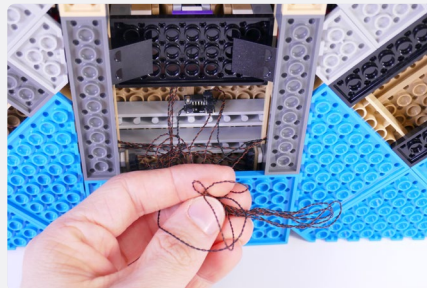
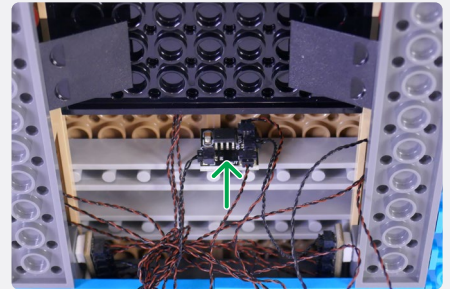
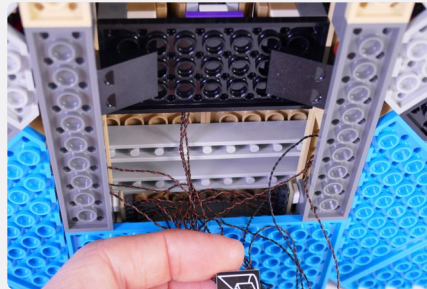
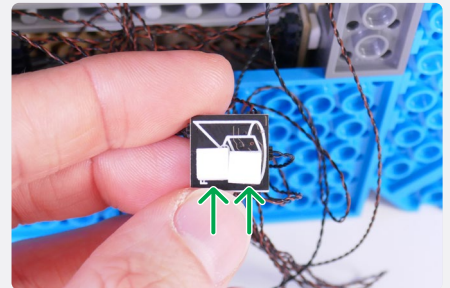
48

NOTE

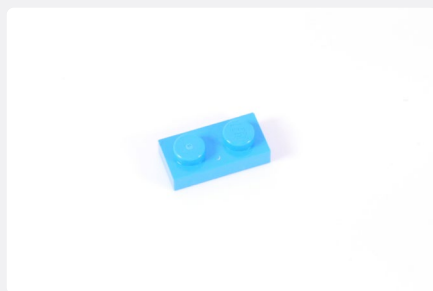
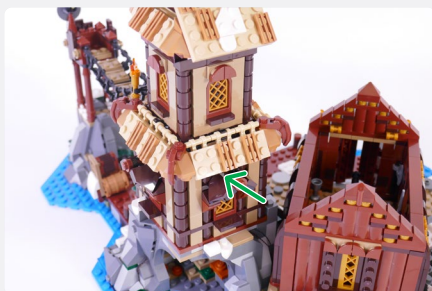
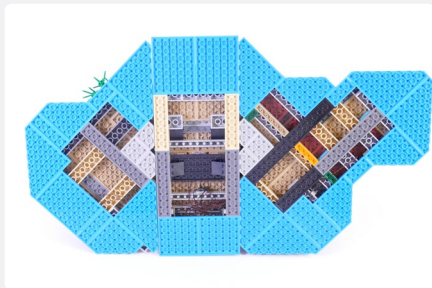
Take the remaining loose cable and connect it to the "OUT" port of the Flicker Effects Board.



2x Adhesive Square



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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

FINAL PRODUCT

This finally completes installation of the Light My Bricks

LEGO® Viking Village 21343 Light Kit.





TROUBLESHOOTING

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

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

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



Wenn Sie Probleme mit Ihrem Light My Bricks-Set haben, sehen Sie sich unser Video zur Fehlerbehebung an oder lesen Sie die Auflistung der häufigsten Ursachen, die Ihnen bei der Fehlersuche helfen hier.



Si vous rencontrez des problèmes avec votre kit Light My Bricks, regardez notre vidéo de dépannage ou consultez la liste des causes les plus fréquentes pour vous aider à les résoudre ici.



Se si verificano problemi con il set Light My Bricks, guardare il nostro video per la risoluzione dei problemi o leggere l'elenco delle cause più comuni per la risoluzione dei problemi qui.

Troubleshooting

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

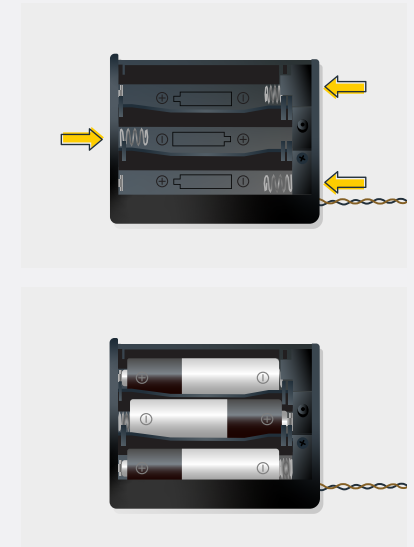
If the batteries have no power, replace the batteries.

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

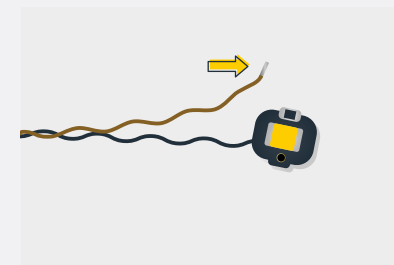
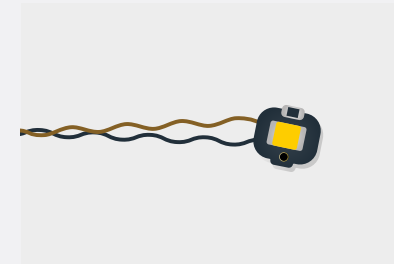
In order for Light My Bricks components to fit in between and underneath LEGO® bricks, the components need to be very small. Due to this nature, Light My Bricks components can be easily damaged when not handled correctly.

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.



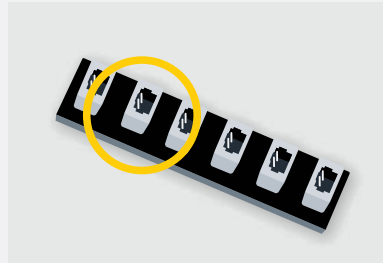
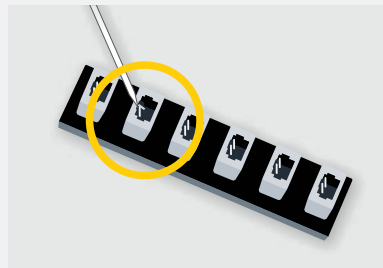
Troubleshooting

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.

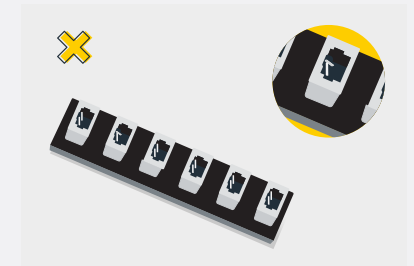
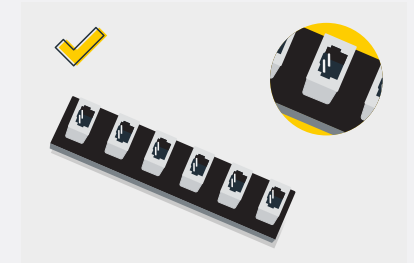
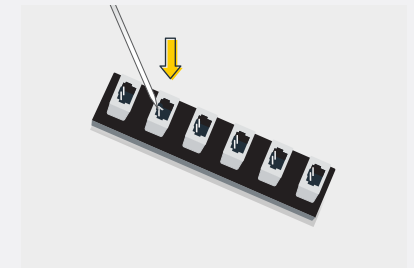
Not only will a light connected to the damaged port not work, but if the pins inside the port are bent to a point they are touching each other, this can result in all other lights in the system to stop working. This is a short circuit.



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.





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