

# LEGO® AVATAR TORUK MAKTO & TREE OF SOULS #75574 LIGHT KIT INSTALLATION GUIDE



# **Light My Bricks**



# LEGO® AVATAR TORUK MAKTO & TREE OF SOULS 75574 INSTALLATION GUIDE

Hi There!

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

Avatar Toruk Makto & Tree of Souls 75574 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:**



- 2 x Blue 15cm Bit Light
- 2 x Purple 30cm Bit Light
- 10 x Pink 30cm Bit Light \*
- 2 x Green 30cm Bit Light
- 2 x Orange 30cm Large Bit Light



- 3 x 6-Port Expansion Board
- 1 x 12–Port Expansion Board



- 2 x 30cm Connecting Cable
- 1 x 50cm Connecting Cable



1x USB Power Cable
(Power Source not Included)

+ 4x Adhesive Square

# **ASSORTED BRICKS:**

- 4 x Plate 1x1 Mod Rounded w Handle Black
- 9 x Round Plate 1x1 Open Stud Black
- 4 x Tile 1x1 W Clip Round Edges Black
- 8 x Round Plate 1x1 Trans Pink
- 4 x Round Plate 1x1 Trans Clear
- 1 x Round Plate 2x2 w/ Rounded Bottoms Trans Clear

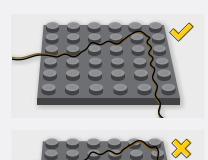
<sup>\*</sup> Indicates components which include spares



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# 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.





# **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.



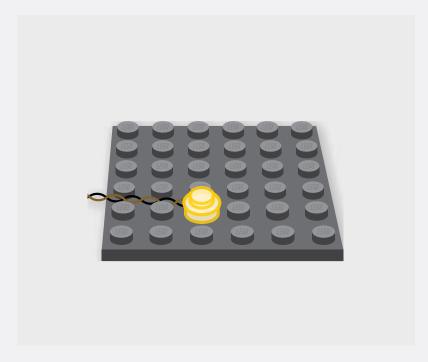
#### Connecting Micro Cable Connectors To Micro Expansion Board Ports

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.



#### **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.









#### 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.



#### **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.





#### **Repeat Step**

Repeat the previous step eg.

Make a spotlight, then make a second spotlight.



#### **Connect Focus**

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



#### **Disconnect Focus**

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



#### **General Focus**

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



#### **General Note**

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

#### **Connect Note**

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

#### **Disconnect Note**

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



#### NOTE

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





#### NOTE

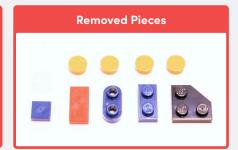
Connect to a 5V USB Power Bank, 5V USB Wall Adaptor, or USB to AA Battery Pack (sold separately)



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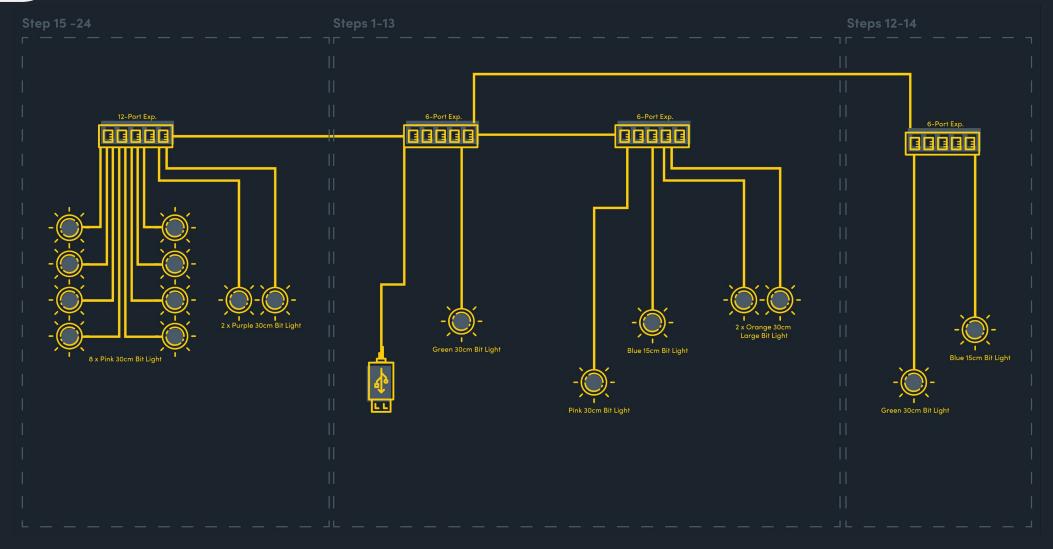
#### NOTE

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.



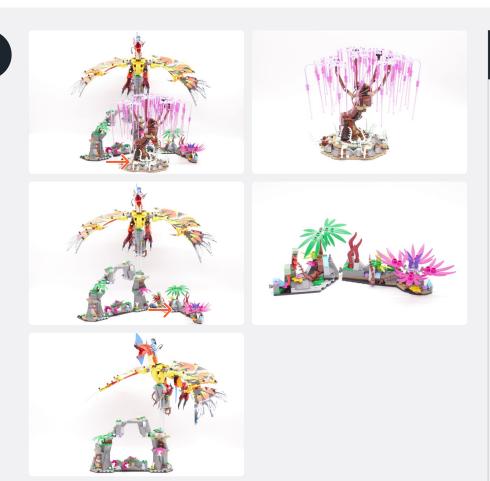
Wenn Sie Probleme mit Ihrem Light My Bricks-Set haben, sehen Sie sich unser Video zur Fehlerbehebung an oder lesen Sie die Auflistung der häufigsten Ursachen, die Ihnen bei der Fehlersuche helfen hier.

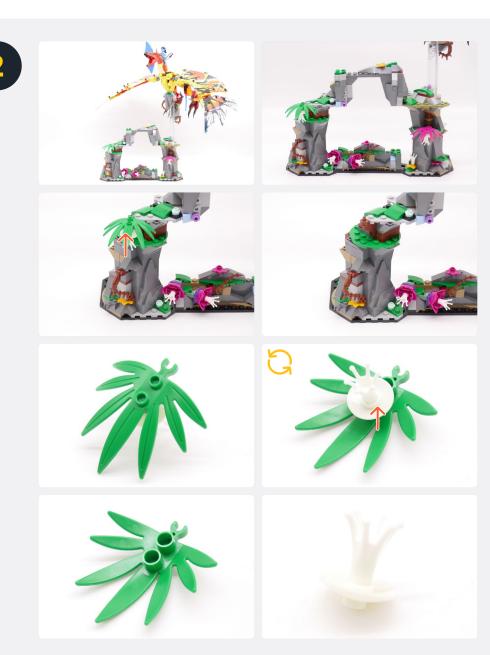
Si vous rencontrez des problèmes avec votre kit Light My Bricks, regardez notre vidéo de dépannage ou consultez la liste des causes les plus fréquentes pour vous aider à les résoudre ici.

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.

**INSTRUCTIONS** 







→ DISCONNECT



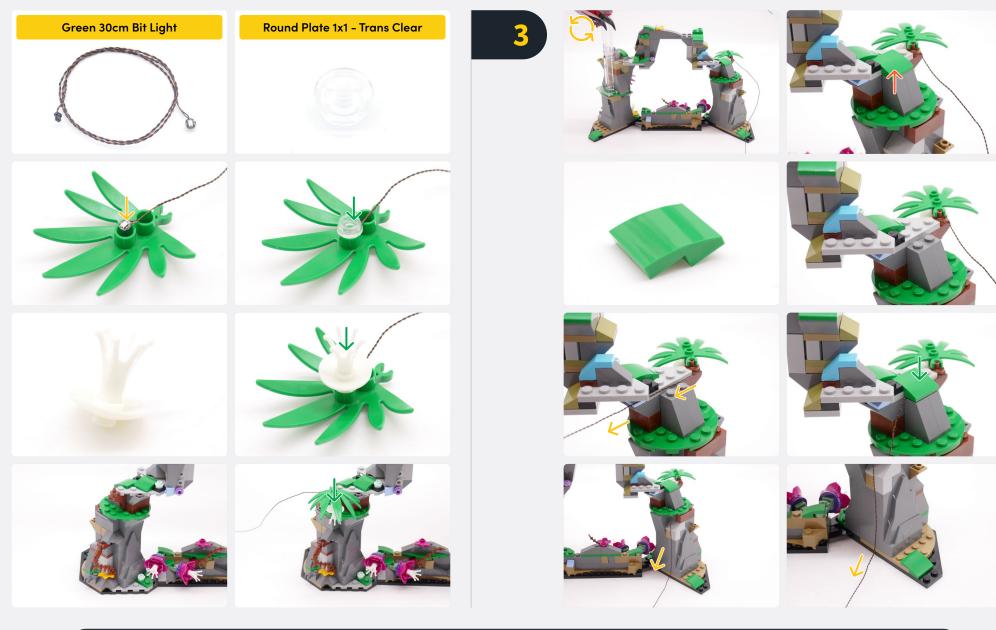














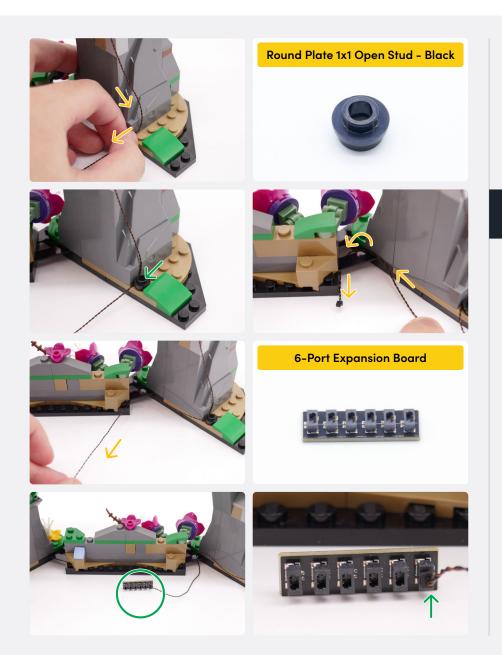






















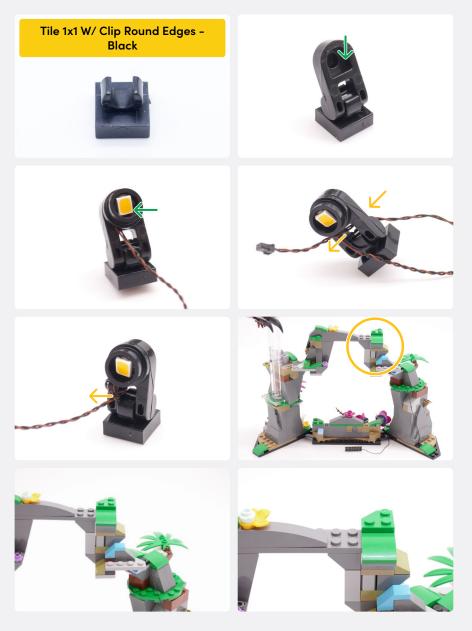


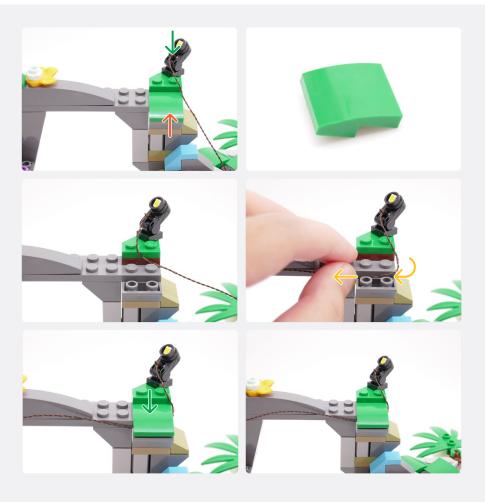


















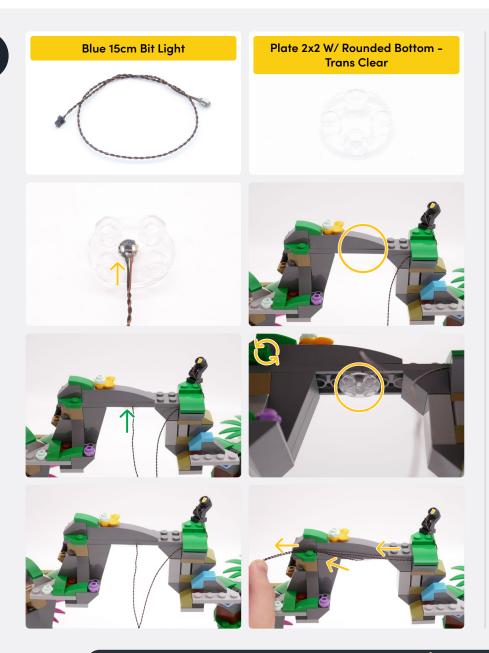


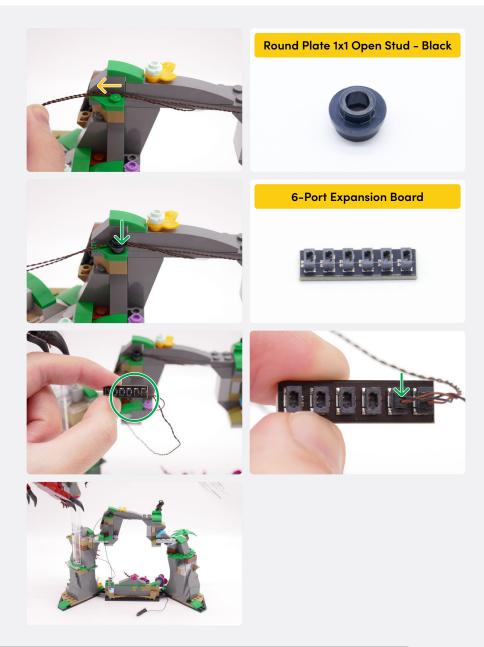




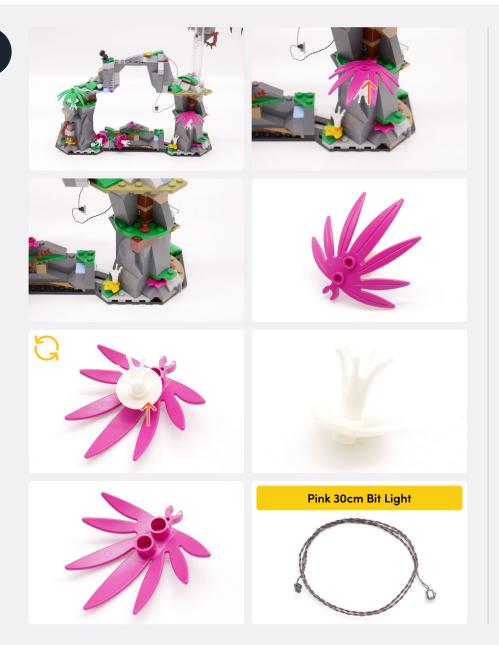


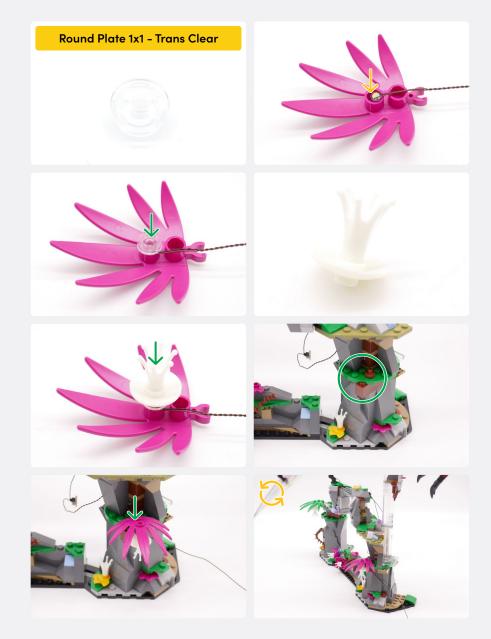


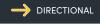












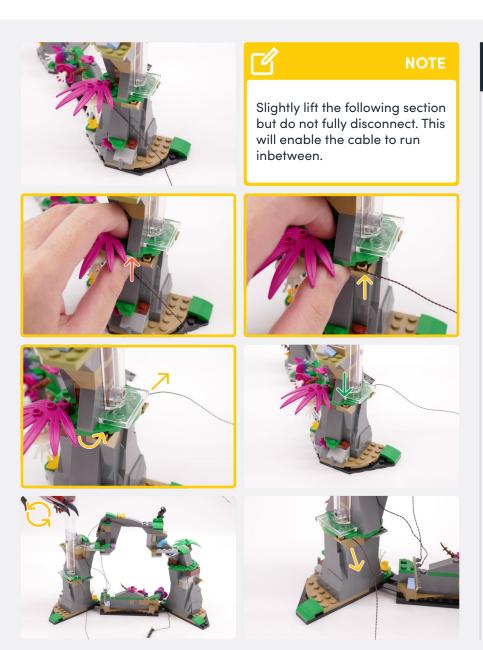


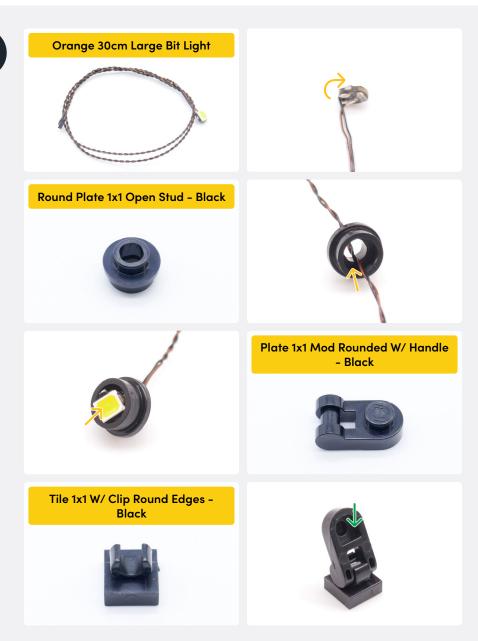




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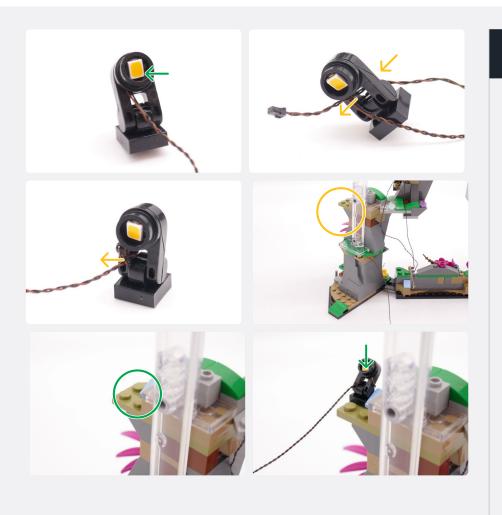


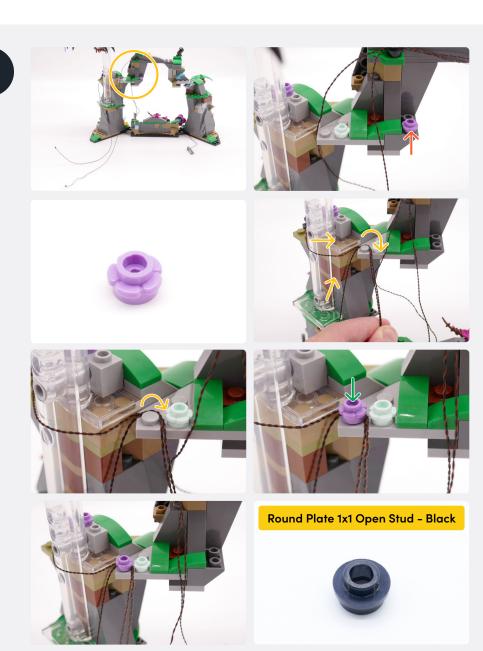








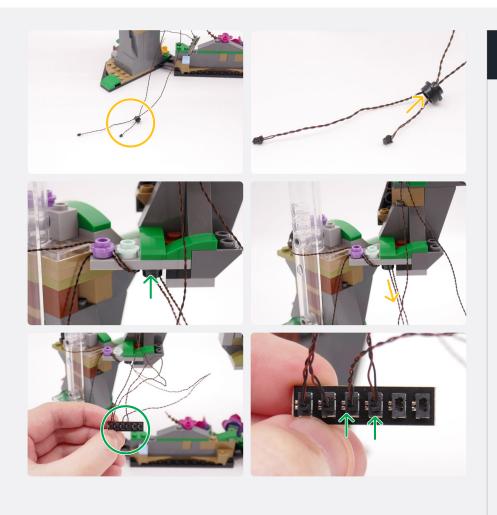






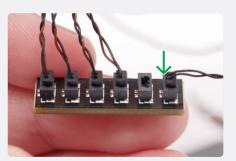


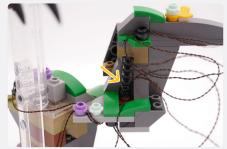














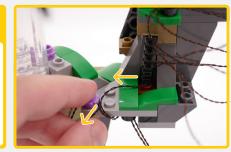






NOTE

Run the 30cm Connecting Cable through the following position before securing it with the LEGO Flower piece.



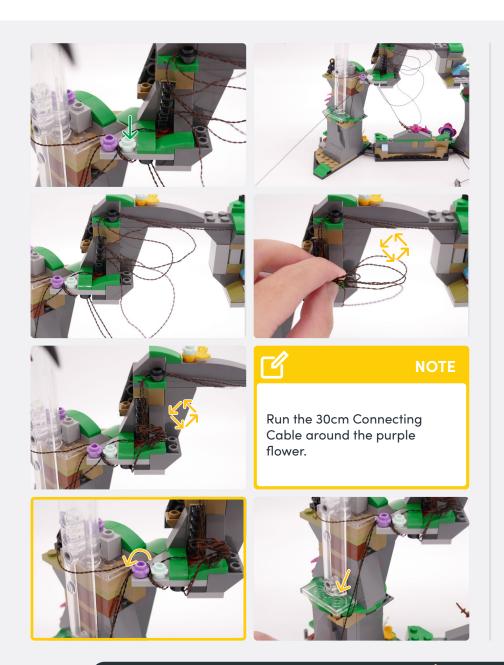


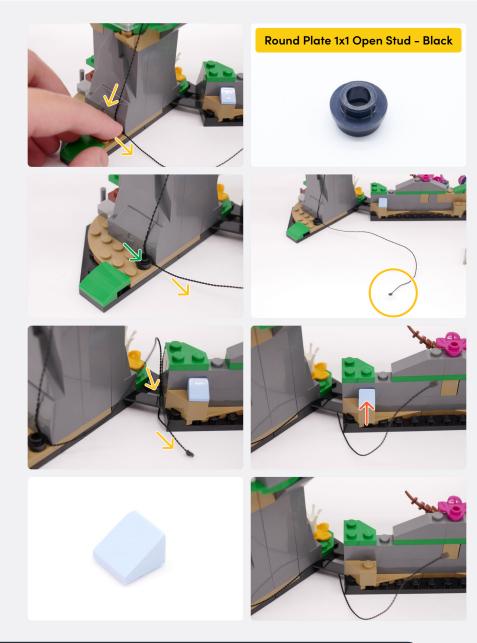














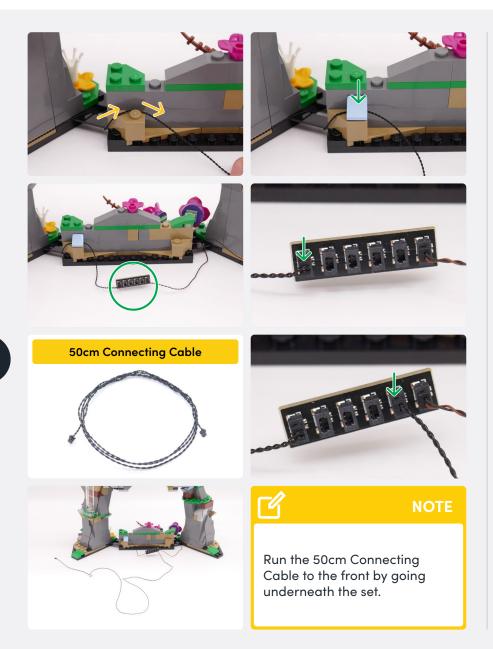


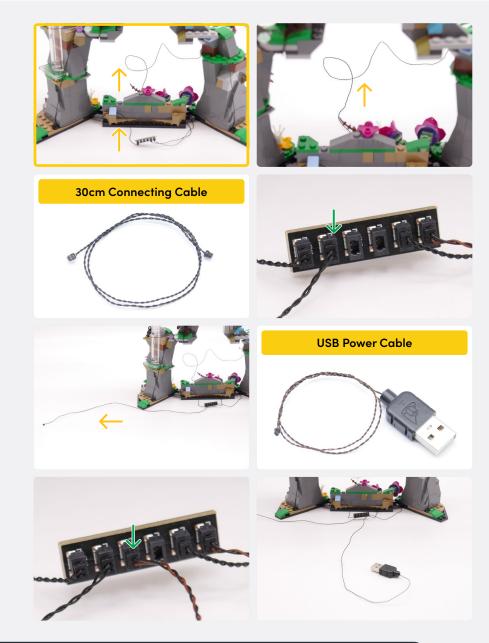


















#### NOTE

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







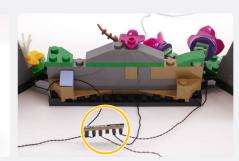




If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing expansion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



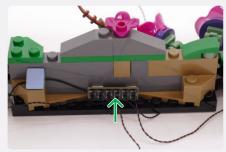




2x Adhesive Square



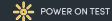




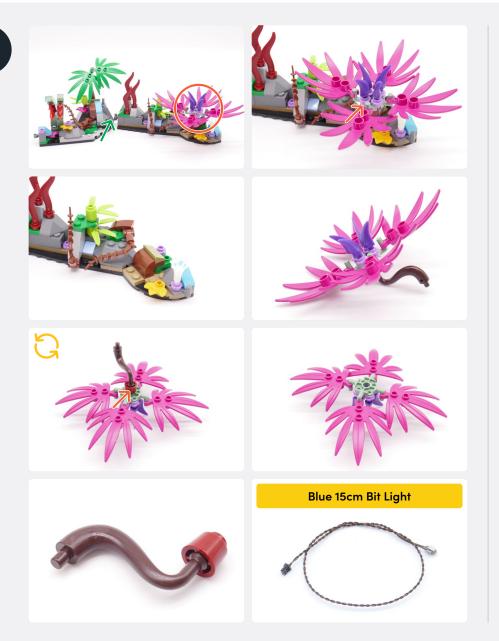


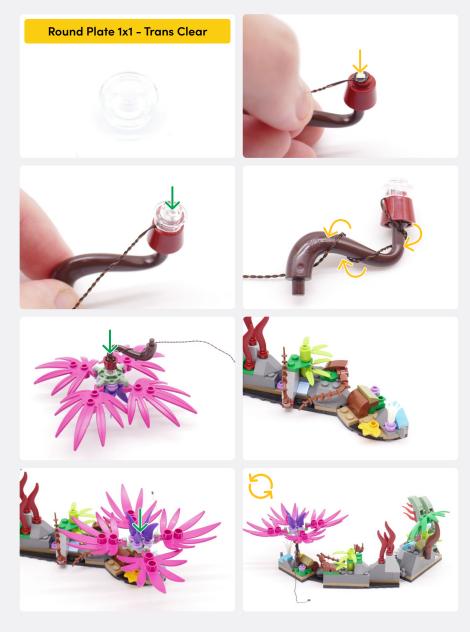






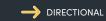






INSTRUCTIONS





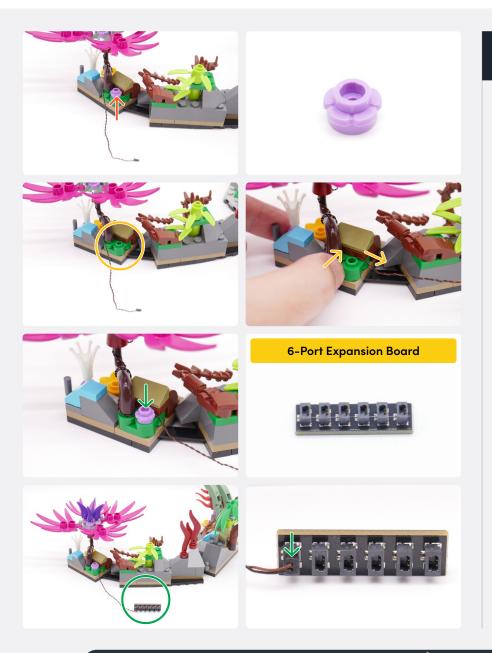


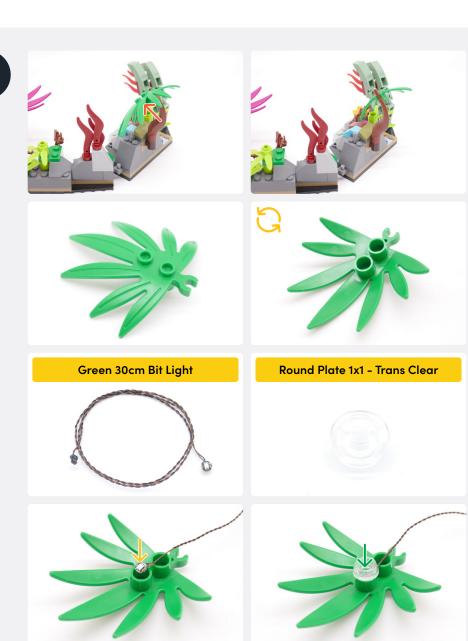










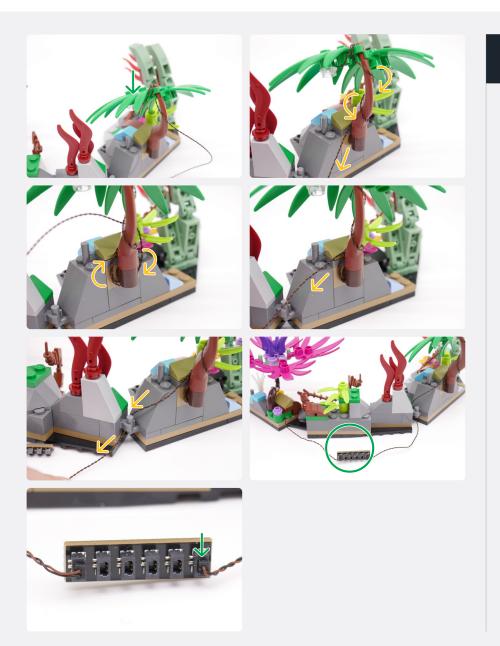
















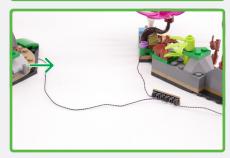


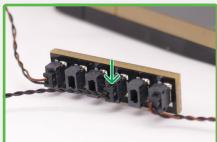


#### NOTE

Take the 30cm Connecting Cable from Step 10 and connect it to the Expansion Board in the previous step.

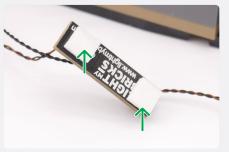


























#### NOTE

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.





#### NOTE

Disconnect the 3 outer tree arms. These will have an angled arm.











#### NOTE

Disconnect the central tree arm. These will have an staight arm.





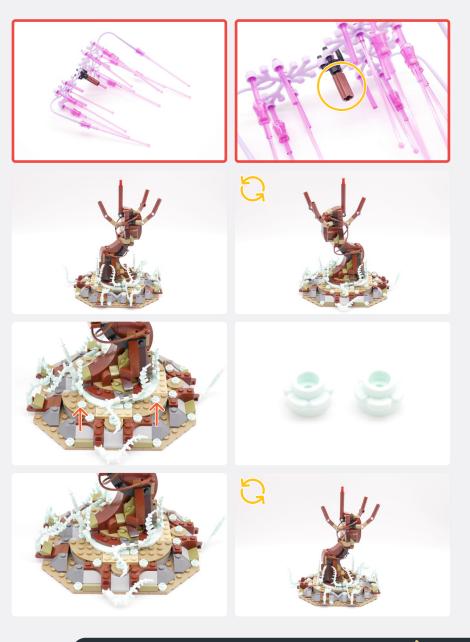




















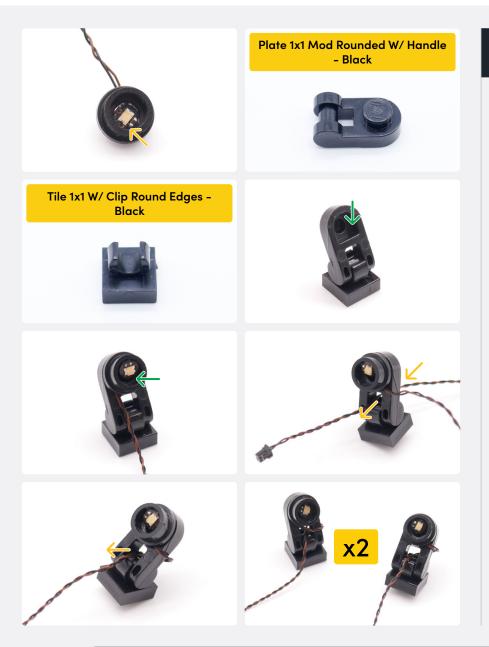


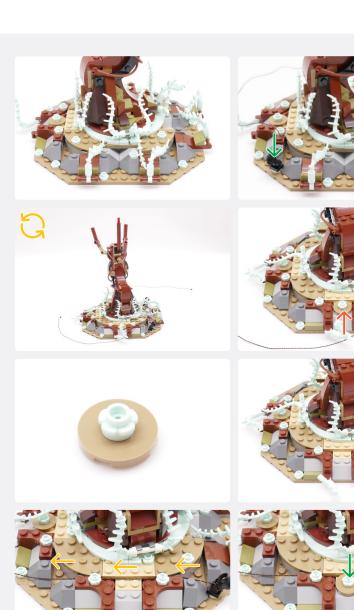












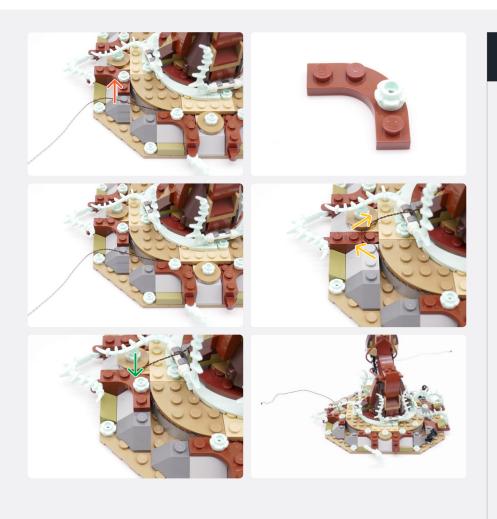






→ DISCONNECT











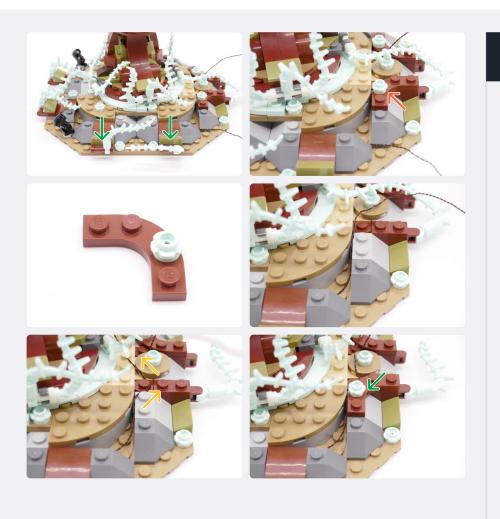


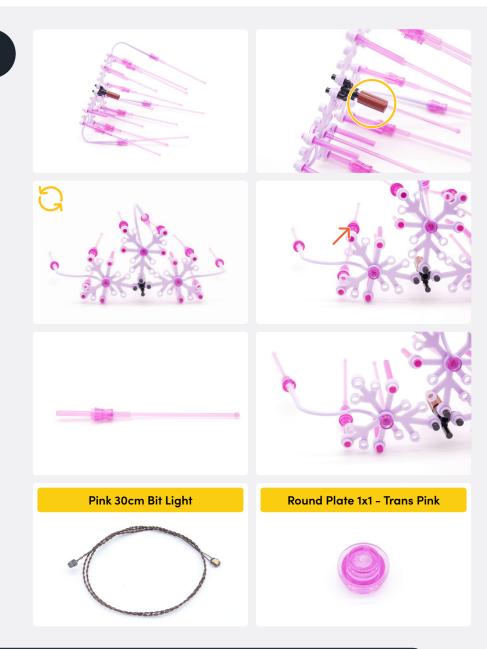


















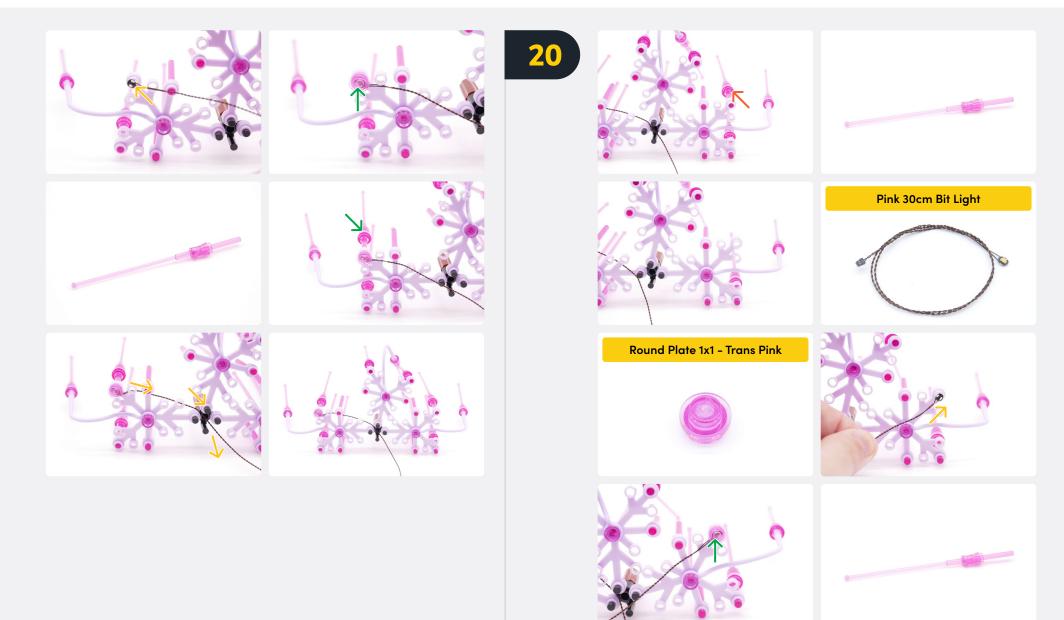














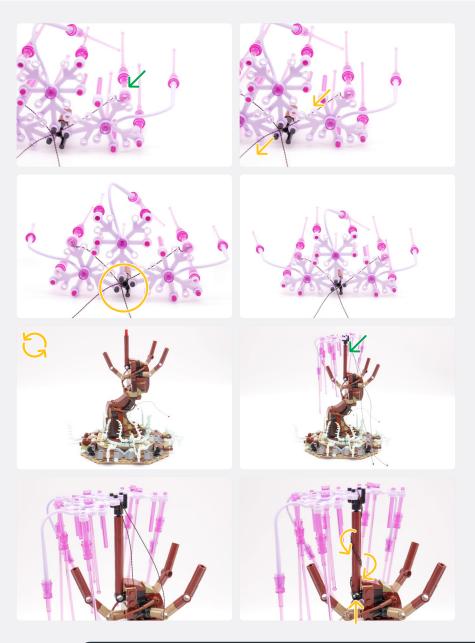


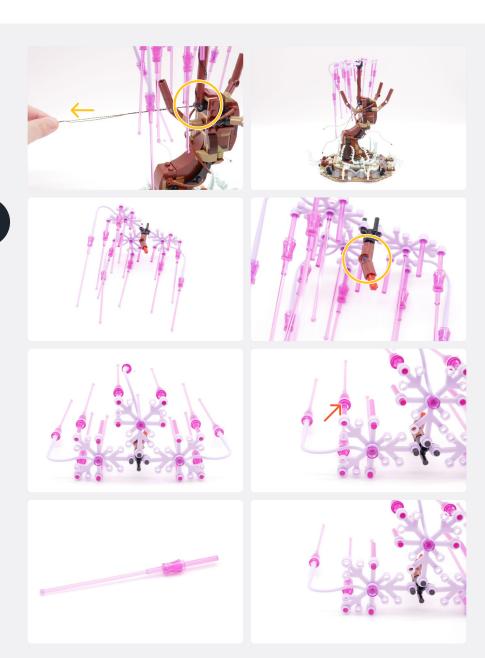
























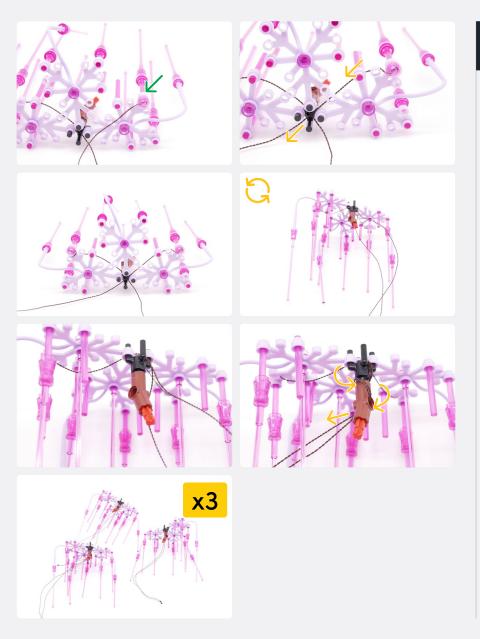


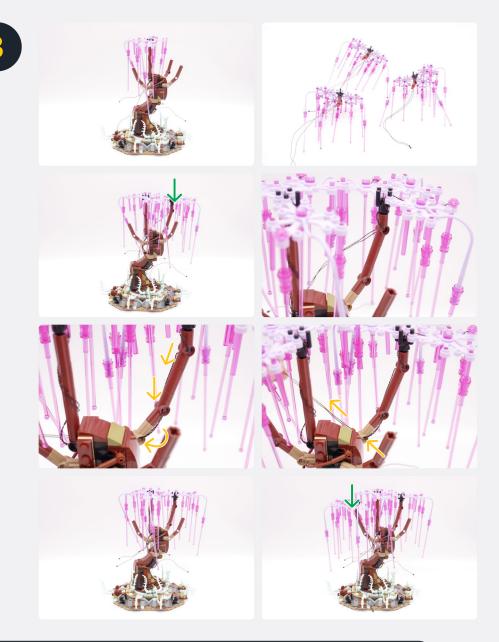








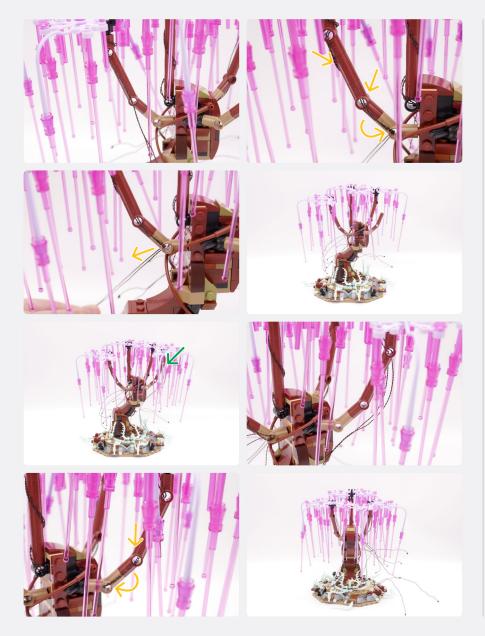


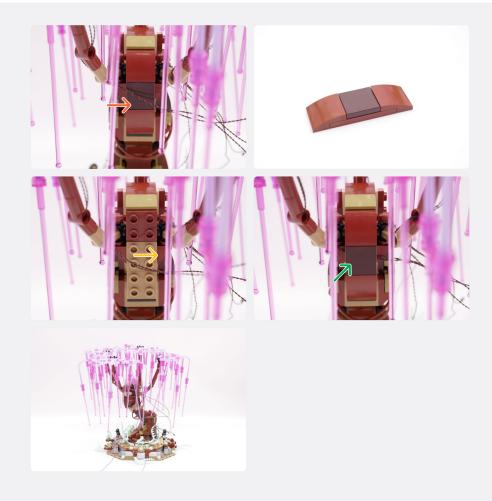




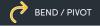












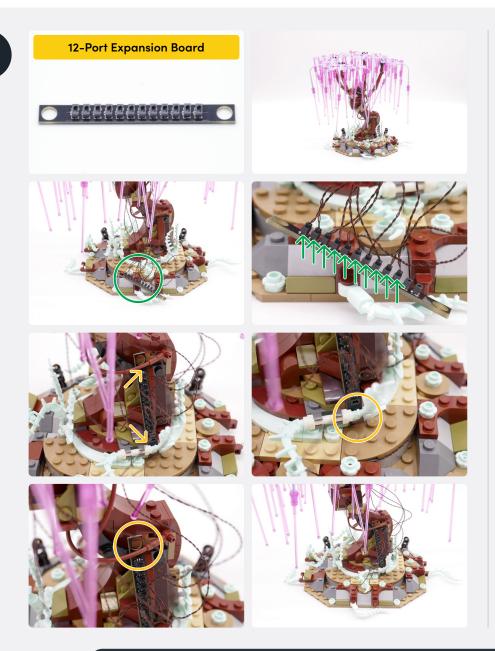


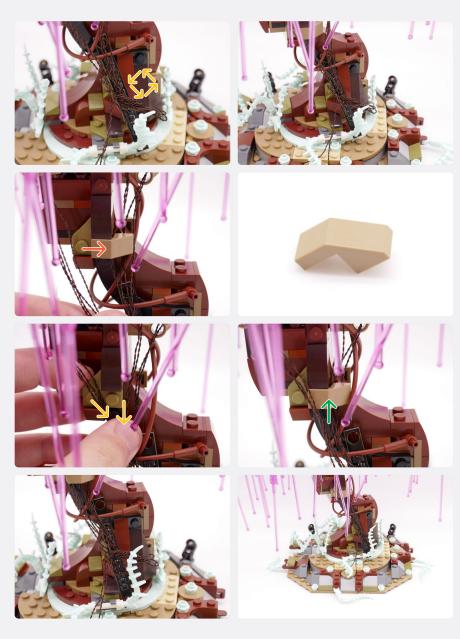




























#### NOTE

Ensure minimal cables are visible from the front of the tree.









#### NOTE

Connect the 50cm Connecting Cable from step 10 to the 12-Port Expansion Board











#### 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.





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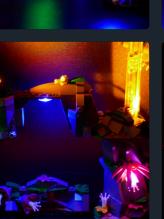
# **FINAL PRODUCT**

This finally completes installation of the Light My Bricks

LEGO® Avatar Toruk Makto & Tree of Souls 75574 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:

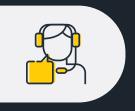
If you look carefully inside each of the ports, each port contains 2 small pins that should be straight. You will be able to identify a faulty port if it has any bent pins.











### **CONTACT US**

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

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

support. lightmybricks.com

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



lightmybricks.com