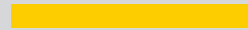




**LIGHT<sup>MY</sup>  
BRICKS**



**LEGO® TITANIC (PART 2)  
#10294 LIGHT KIT  
INSTALLATION GUIDE**

# Light My Bricks



## LEGO® TITANIC #10294 LIGHT KIT INSTALLATION GUIDE

Hi There!

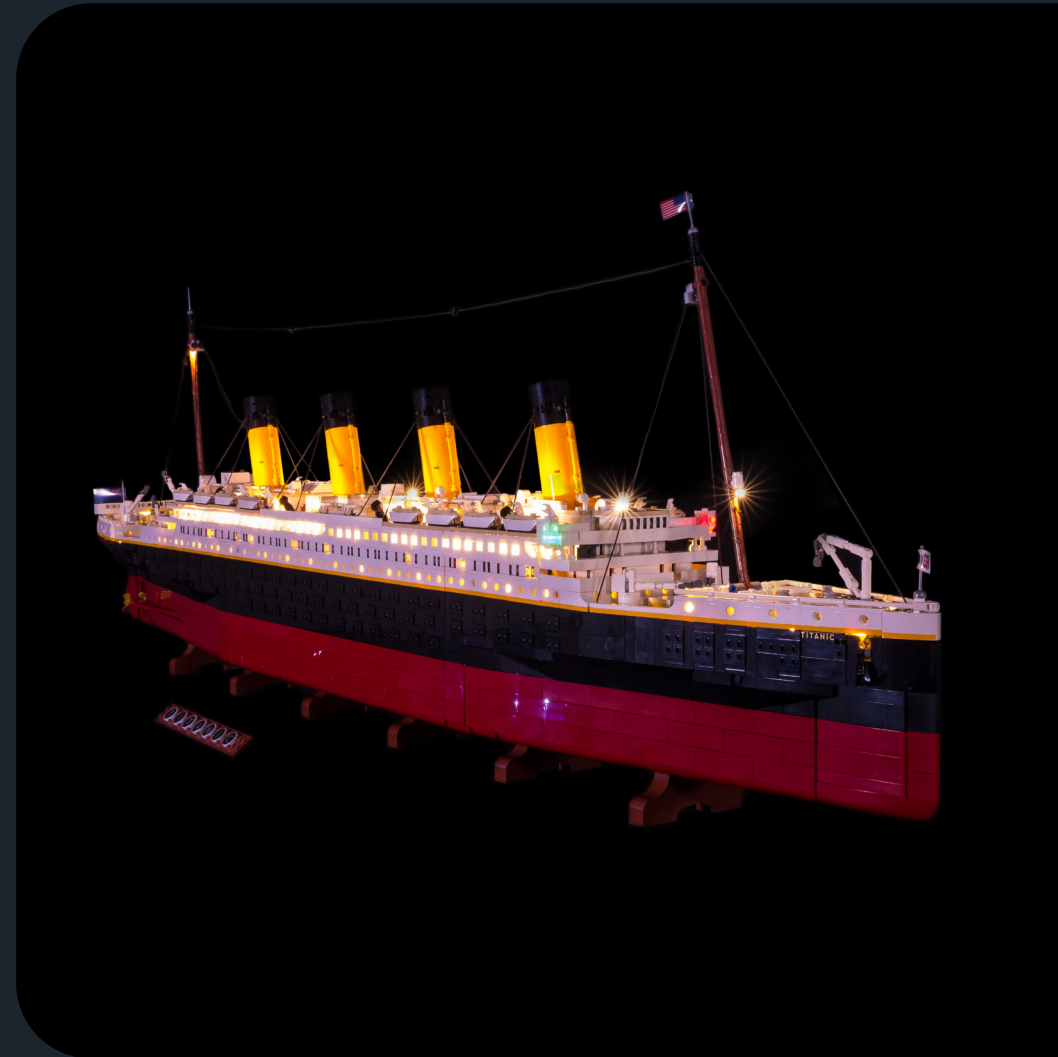
We're here to help you get started on the LEGO® Titanic (10294) Light Kit.

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

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

Have fun and enjoy!

INSTALLATION GUIDE



## PACKAGE CONTENTS:



- 17 x Warm White Strip Light \*
- 3 x White 30cm Bit Light
- 6 x Orange 30cm Bit Light
- 19 x Warm White 30cm Large Bit Light \*
- 5 x Cool White 30cm Bit Light \*
- 13 x White 15cm Micro Bit Light \*
- 5 x White 30cm Micro Bit Light \*
- 7x Warm White Light String



- 2 x 2-Port Expansion Board
- 4 x 6-Port Expansion Board
- 4 x 8-Port Expansion Board \*
- 2 x 12-Port Expansion Board
- 2 x Micro 4-Port Expansion Board
- 2 x Micro 8-Port Expansion Board \*
- 2 x Adhesive Squares



- 16 x 5cm Connecting Cable \*
- 8 x 15cm Connecting Cable
- 2 x 30cm Connecting Cable \*
- 5 x 50cm Connecting Cable



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

## LEGO PIECES:



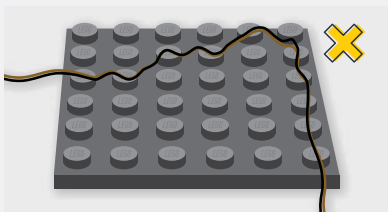
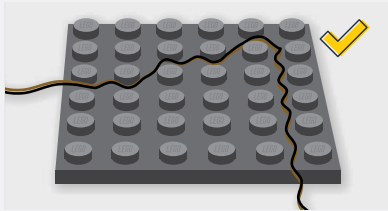
- 11 x Tile 1x1 W Clip Round Edges – Black
- 14 x Round Plate 1x1 Open Stud – Black
- 11 x Plate 1x1 Mod Rounded w Handle – Black
- 4 x Plate 2x2 W Rounded Bottom – Trans Clear
- 1 x Brick 1x4
- 3 x Dish 2x2 – Black

\* Indicates components which include spares.

## Contents

Before You Begin	5
Blueprint	8
Instructions	9
Troubleshooting	36
Contact	41

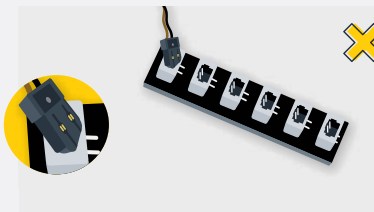
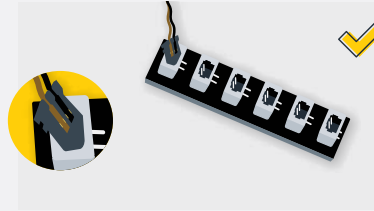
## Before You Begin



### 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.*

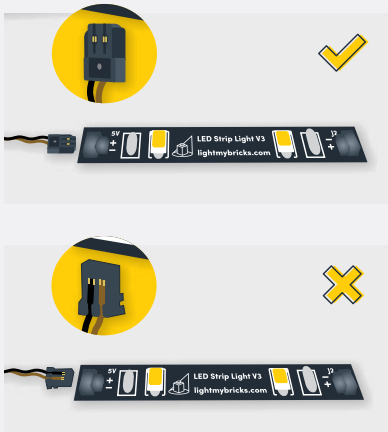


### Connecting Cable Connectors To Expansion Boards

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.



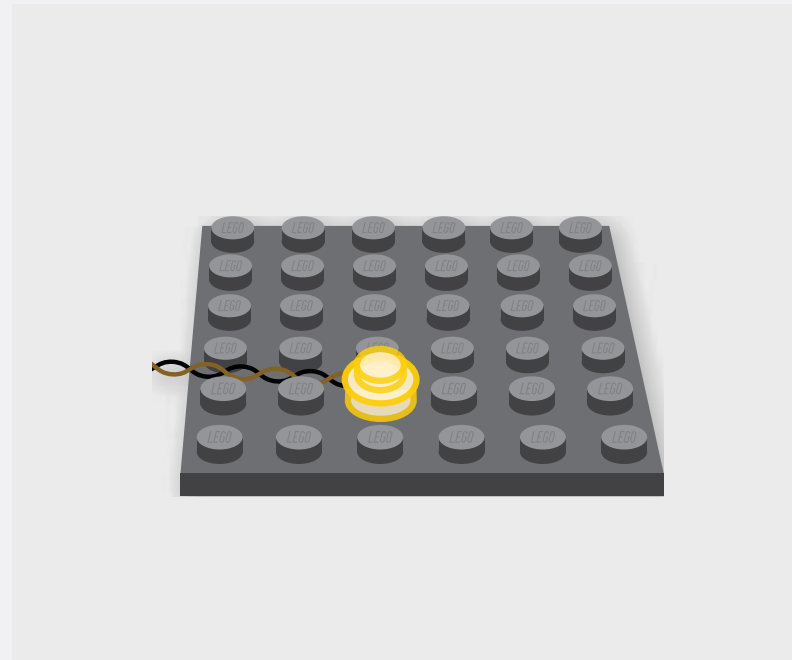
### Connecting Micro Cable Connectors To Micro Expansion Board Ports

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.

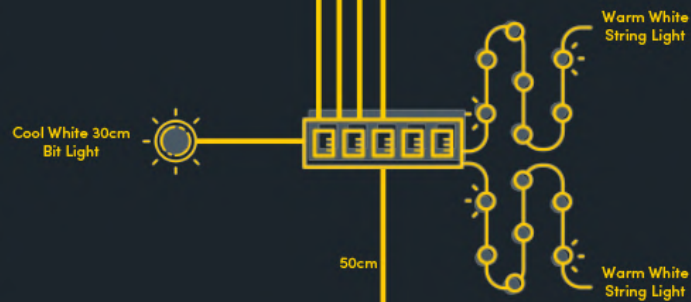


# Blueprint

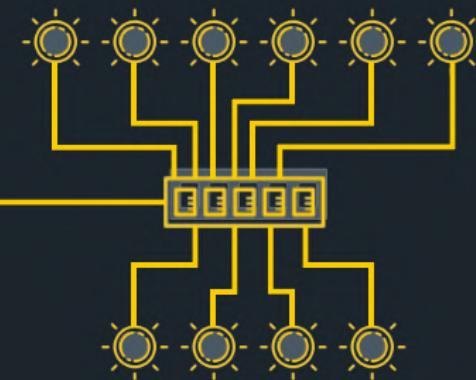
Steps 7-10



Steps 1-6



Steps 11-17







# 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.



LEGEND:  DISCONNECT



CONNECT / RECONNECT



TURN / FLIP



DIRECTIONAL



TWIST / BRAID



POWER ON / TEST



LEGENDE:  TRENNEN



VERNINDEN / WIEDERVERBINDEN



WENDEN / KIPPEN



DIRECTIONAL



DREHEN / VERDREHEN



EINSCHALTEN / TESTEN



LÉGENDE:  DÉCONNECTER



CONNECTER / RECONNECTER



TOUR / INCLINAISON



DIRECTIONNEL



TORSION / TRESSER



POWER ON / TEST



LEGGENDA:  SCOLLEGARE



CONNETTI / RICONNETTI



ROTARE / INCLINARE



DIREZIONALE

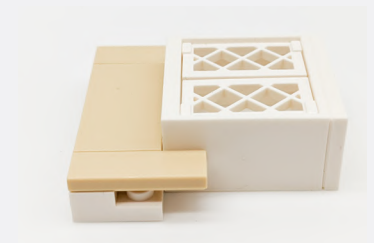
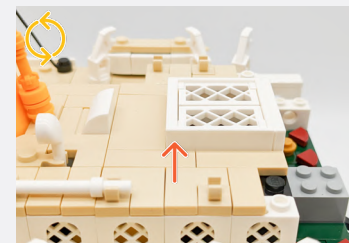
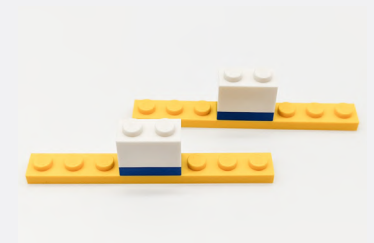
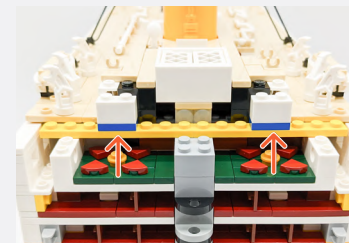
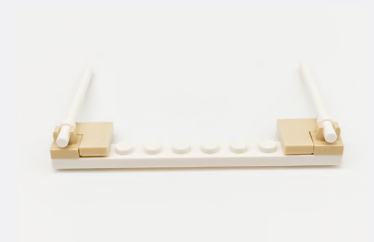
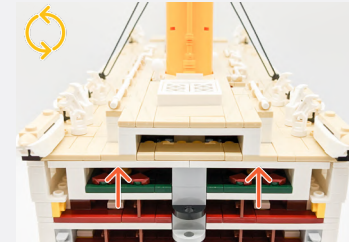
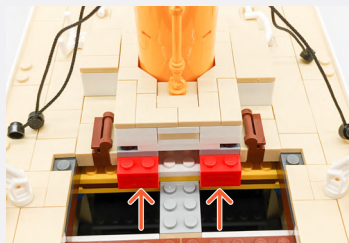
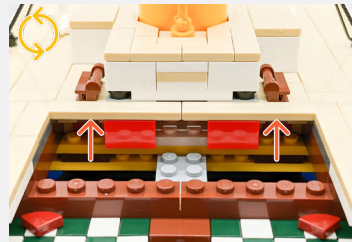
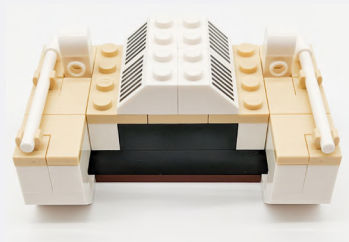
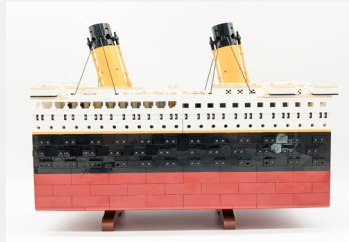


TWIST / TRECCIA



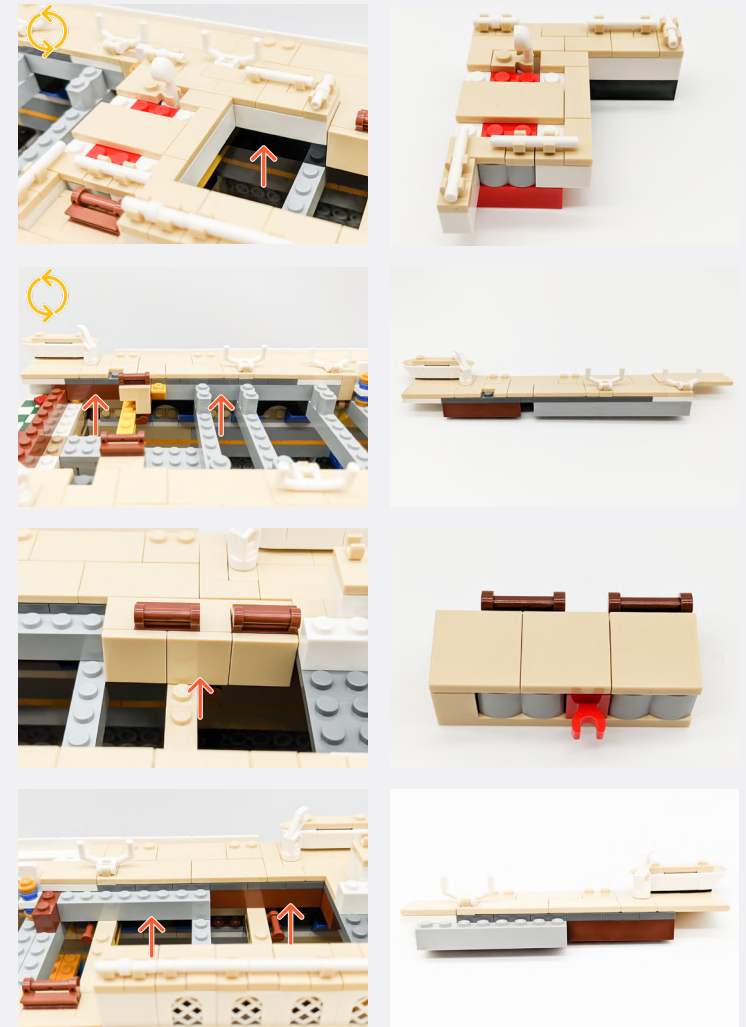
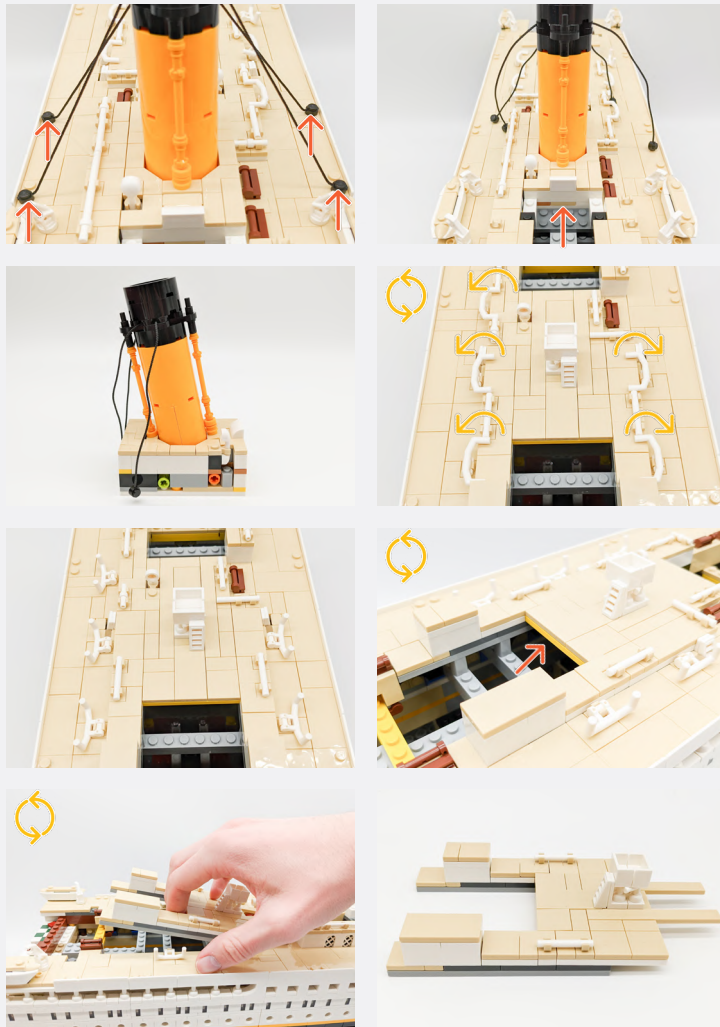
POWER ON / TEST

1

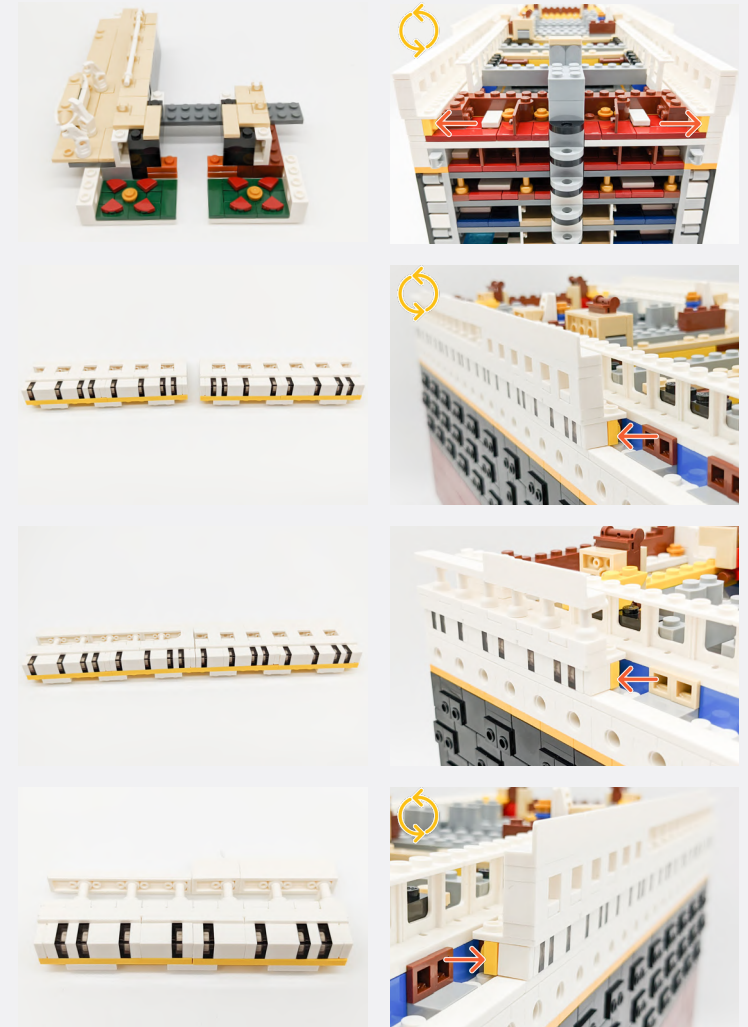


Legend





**Legend**   DISCONNECT   CONNECT / RECONNECT   TURN / FLIP   DIRECTIONAL   TWIST / BRAID   POWER ON TEST   NOTE ICON



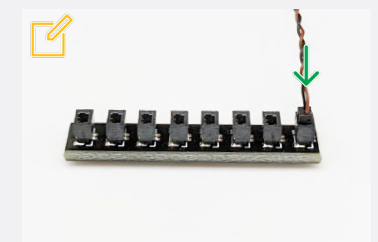
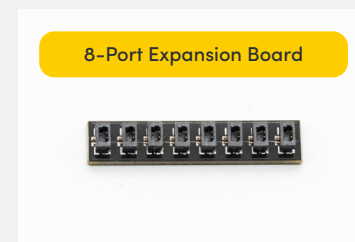
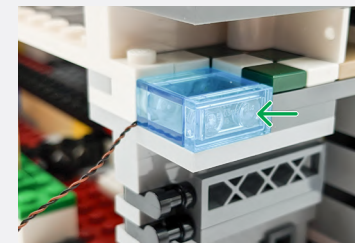
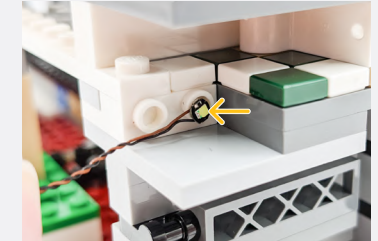
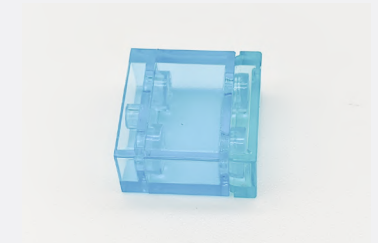
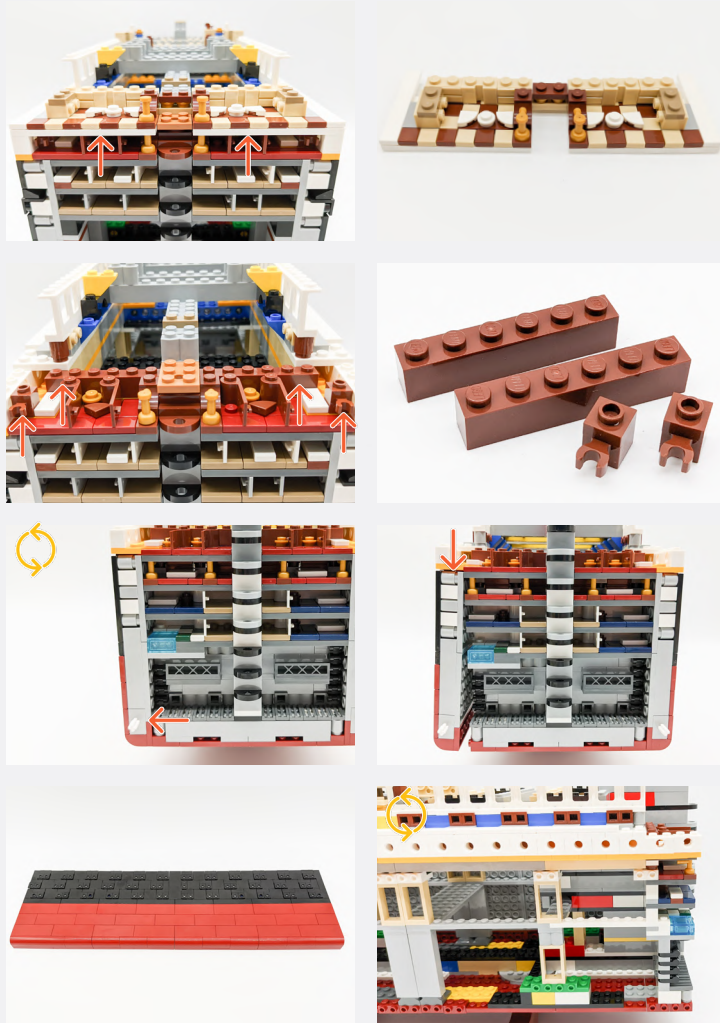
**Legend**    → DISCONNECT    → CONNECT / RECONNECT    ↻ TURN / FLIP    → DIRECTIONAL    ↻ TWIST / BRAID    ✨ POWER ON TEST    📝 NOTE ICON

**2**



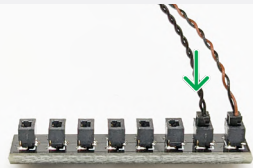
**Legend**   DISCONNECT   CONNECT / RECONNECT   TURN / FLIP   DIRECTIONAL   TWIST / BRAID   POWER ON TEST   NOTE ICON

**3**

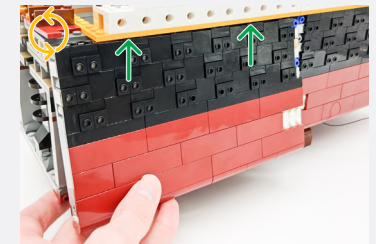
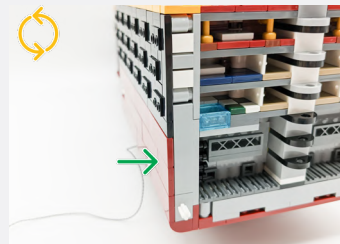
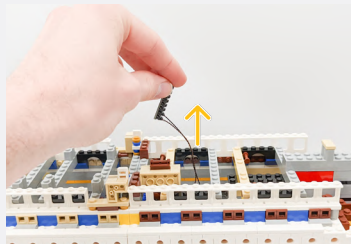
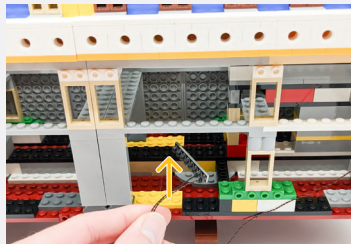
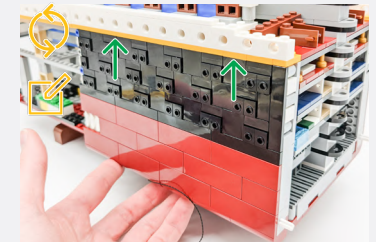
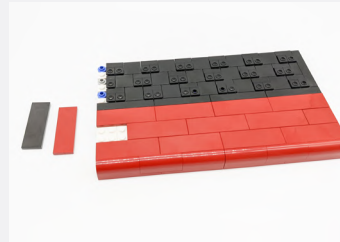


**Legend** → DISCONNECT → CONNECT / RECONNECT ↻ TURN / FLIP → DIRECTIONAL ↻ TWIST / BRAID \* POWER ON TEST 📄 NOTE ICON

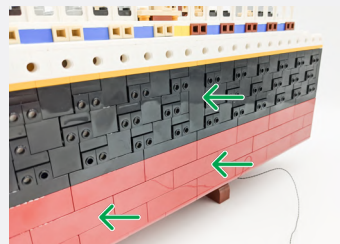
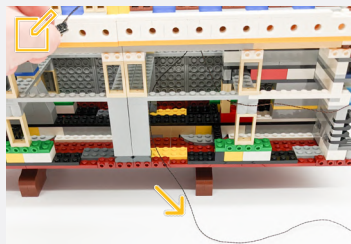
50cm Connecting Cable



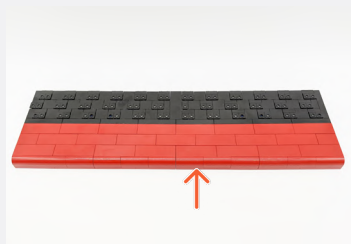
Push up at a slight angle.



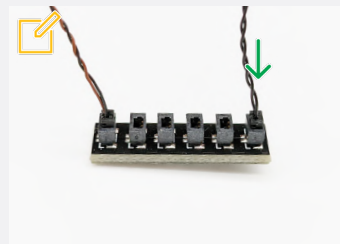
Ensure the 50cm Connecting Cable is running through the bottom of the ship.



4



Connect the 50cm Connecting Cable into the 6-Port Expansion Board removed at the end of Part 1.

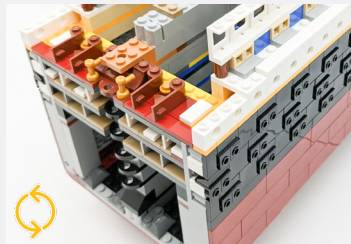
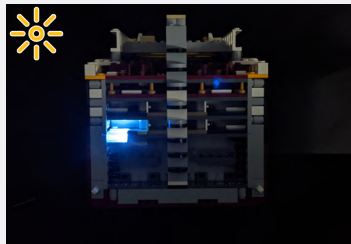


Legend

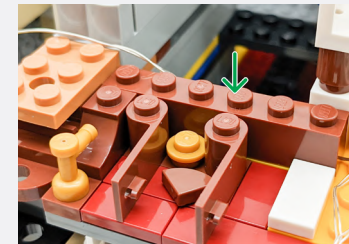
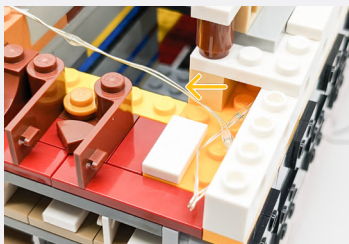
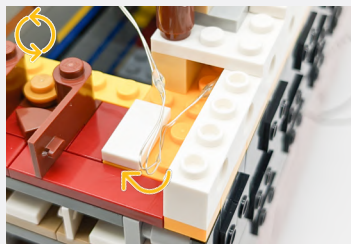
- DISCONNECT
- CONNECT / RECONNECT
- ↻ TURN / FLIP
- DIRECTIONAL
- ↻↻ TWIST / BRAID
- ✳ POWER ON TEST
- 📌 NOTE ICON

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.

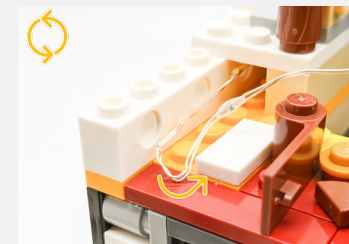
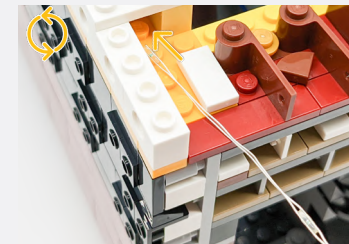
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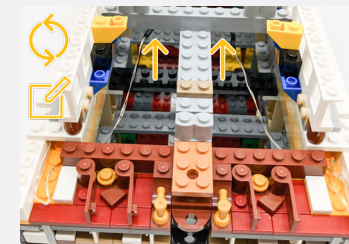
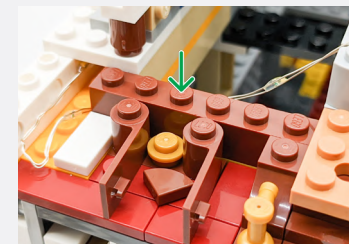
Warm White LED Light String



Warm White LED Light String



Thread the String Light Cables under the 1x12 Grey Bricks to the opposite side.



Legend DISCONNECT CONNECT / RECONNECT TURN / FLIP DIRECTIONAL TWIST / BRAID POWER ON TEST NOTE ICON



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.

Connect the two String Lights to the 8-Port Expansion Board from step 3.

6



7



Legend

- DISCONNECT
- CONNECT / RECONNECT
- TURN / FLIP
- DIRECTIONAL
- TWIST / BRAID
- POWER ON TEST
- NOTE ICON



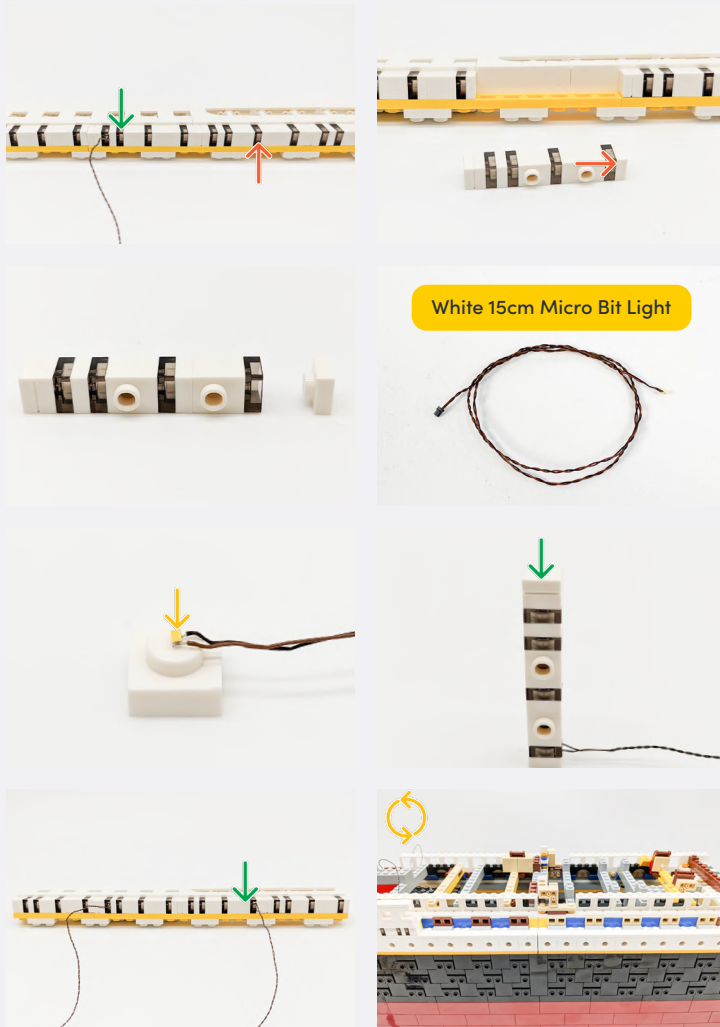
White 30cm Micro Bit Light

Thread the 30cm Micro Bit Light through the window.

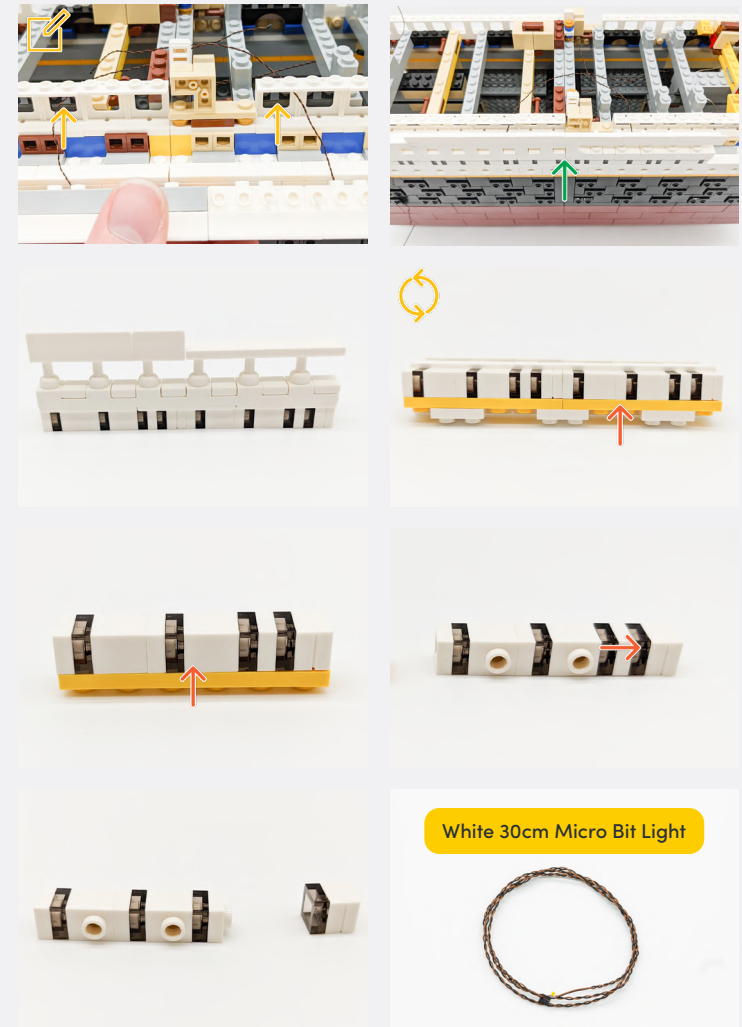


White 15cm Micro Bit Light

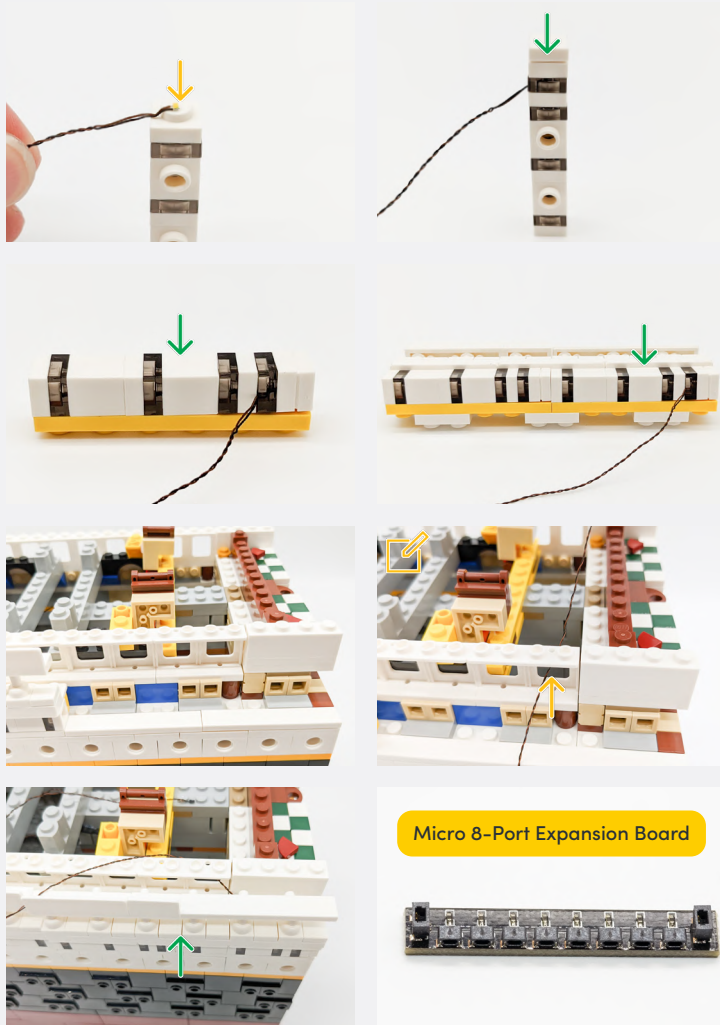
**Legend**   DISCONNECT   CONNECT / RECONNECT   TURN / FLIP   DIRECTIONAL   TWIST / BRAID   POWER ON TEST   NOTE ICON



✂ Thread the two 15cm Micro Bit Lights through the windows.



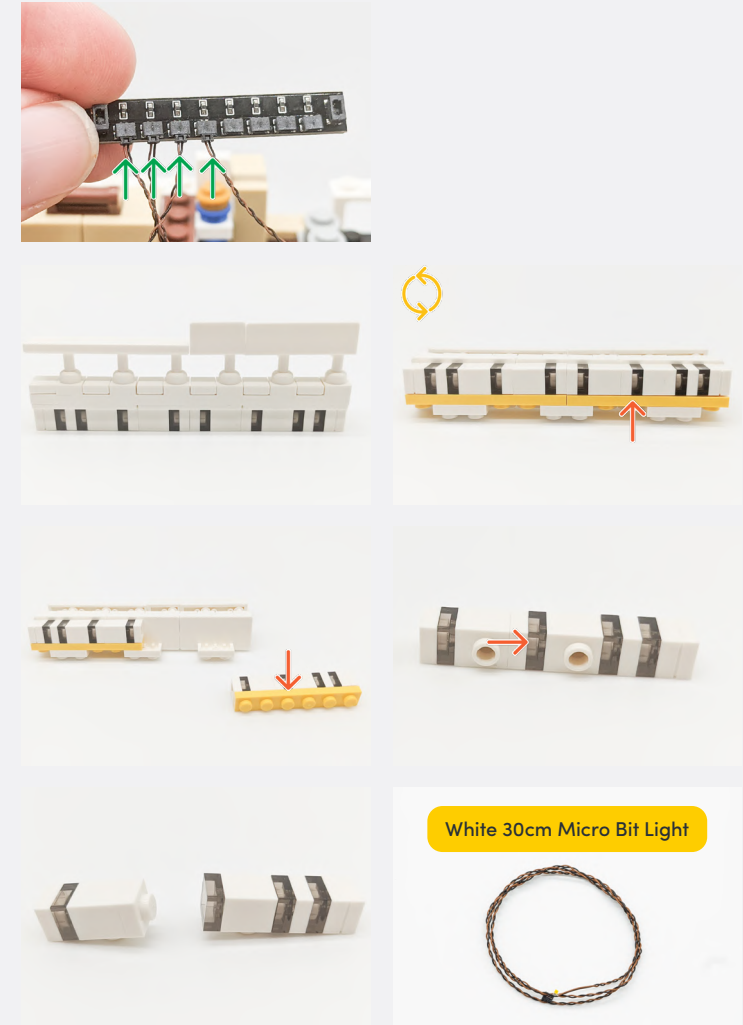
**Legend** → DISCONNECT → CONNECT / RECONNECT ↻ TURN / FLIP → DIRECTIONAL ↻ TWIST / BRAID ✨ POWER ON TEST 📝 NOTE ICON



✎ Thread the 30cm Micro Bit Light through the window.

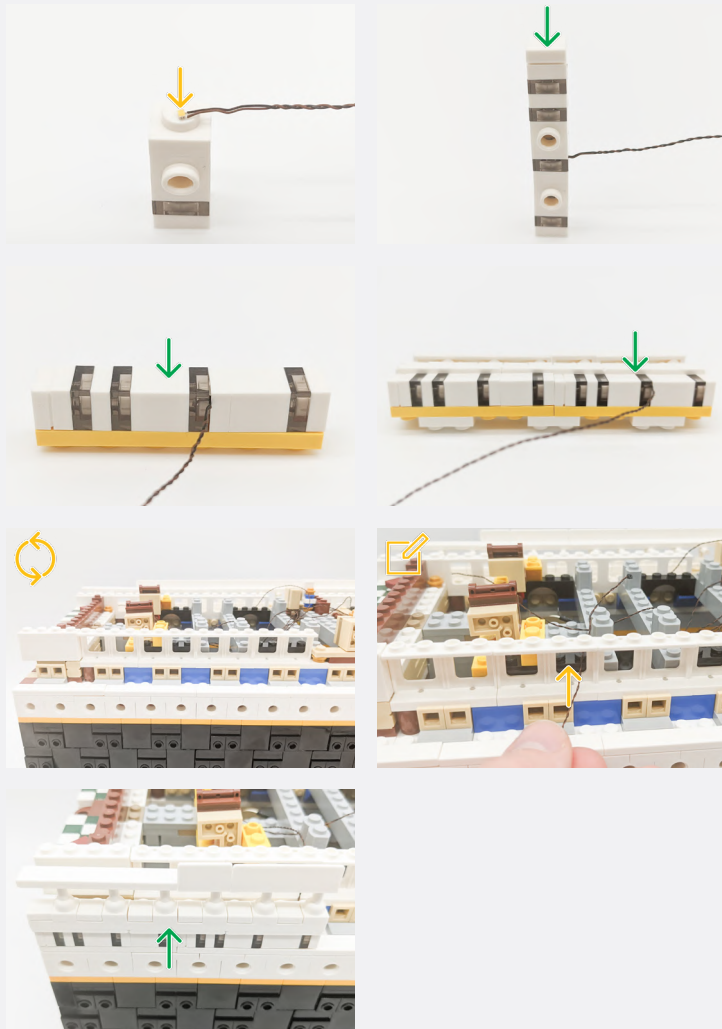
Micro 8-Port Expansion Board

**8**

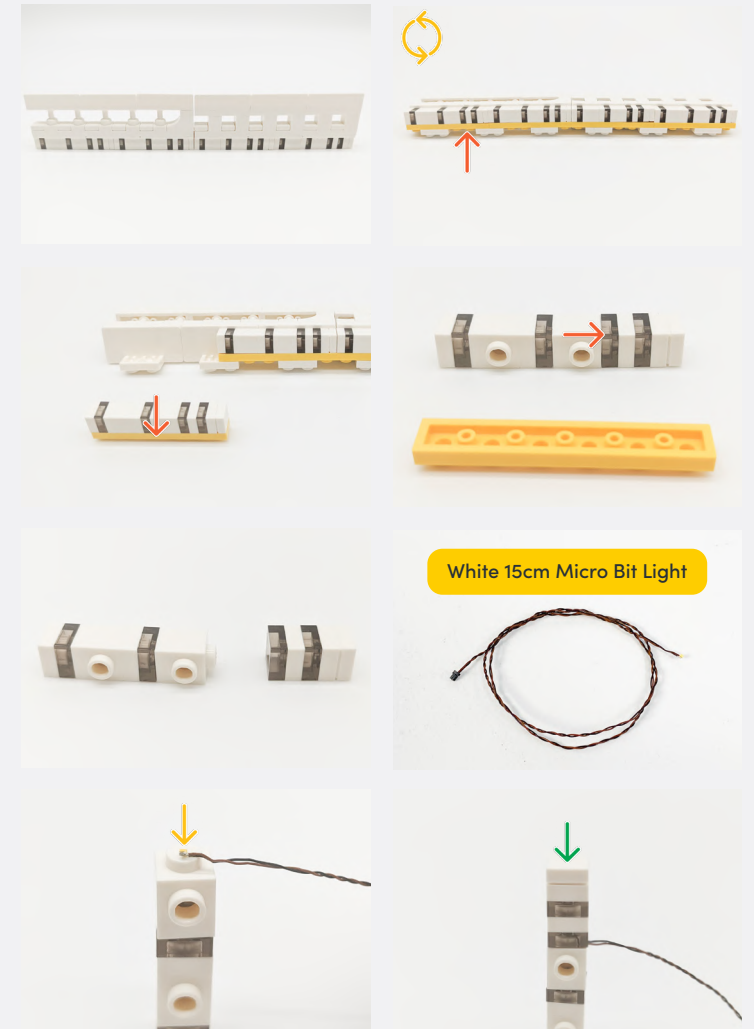


White 30cm Micro Bit Light

**Legend** → DISCONNECT → CONNECT / RECONNECT ↻ TURN / FLIP → DIRECTIONAL ↺ TWIST / BRAID ✨ POWER ON TEST ✎ NOTE ICON



Thread the 30cm Micro Bit Light through the window.

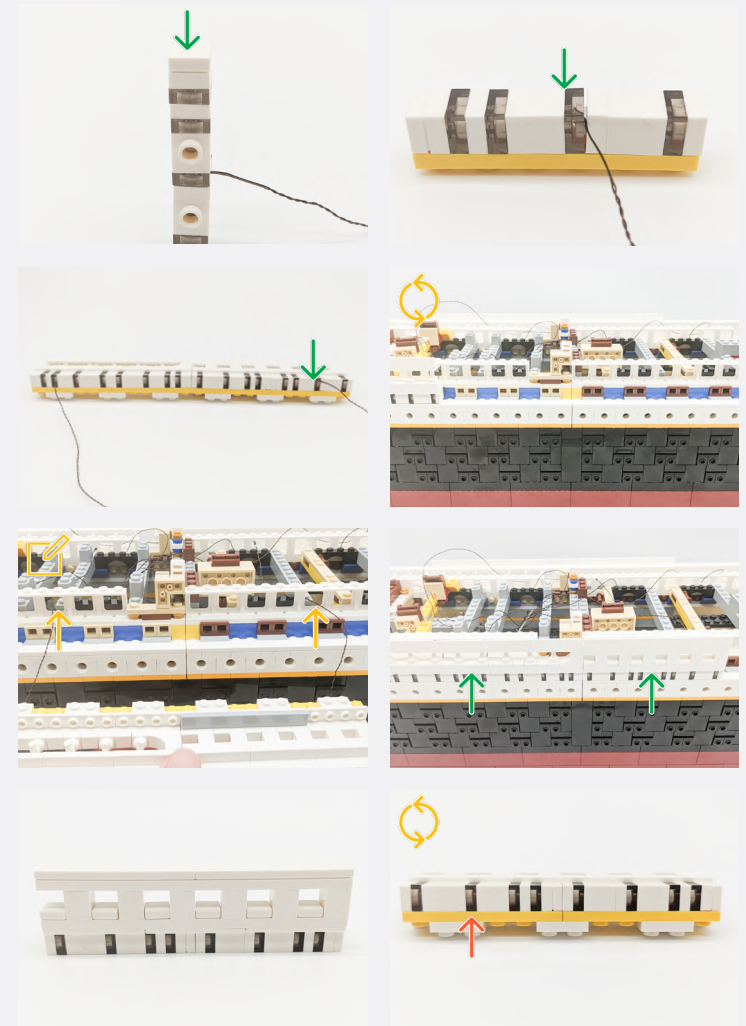


White 15cm Micro Bit Light

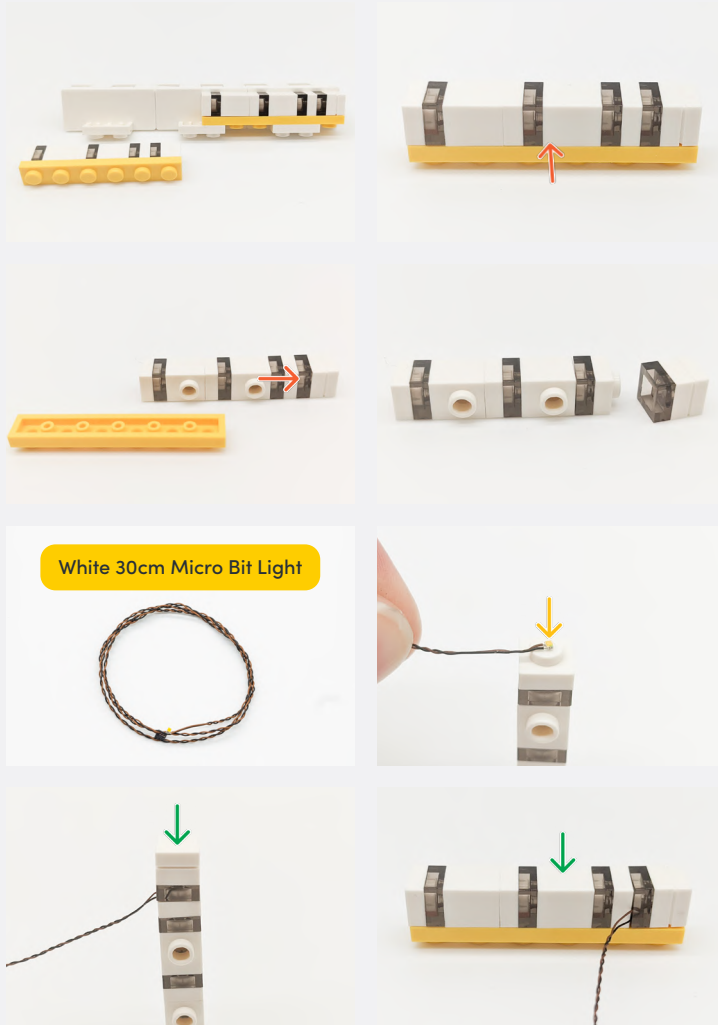
**Legend** DISCONNECT CONNECT / RECONNECT TURN / FLIP DIRECTIONAL TWIST / BRAID POWER ON TEST NOTE ICON



Thread the two 15cm Micro Bit Lights through the windows.



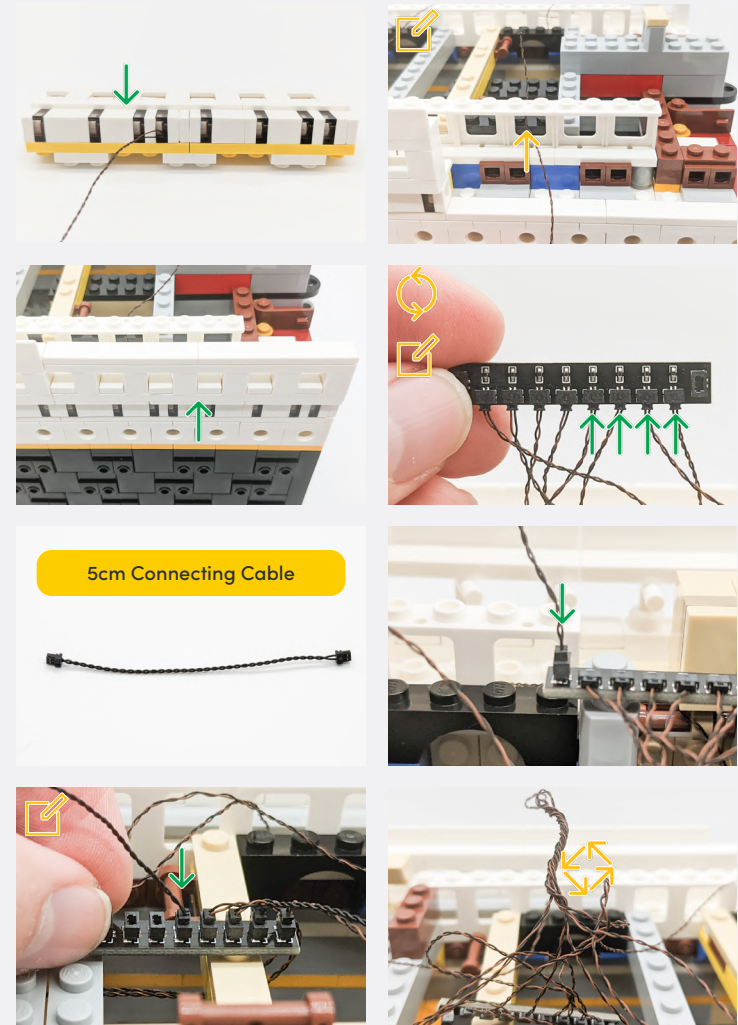
**Legend**   DISCONNECT   CONNECT / RECONNECT   TURN / FLIP   DIRECTIONAL   TWIST / BRAID   POWER ON TEST   NOTE ICON



Thread the 30cm Micro Bit Light through the window.

Connect the Micro Bit Lights to the 8-Port Micro Expansion Board from step 7.

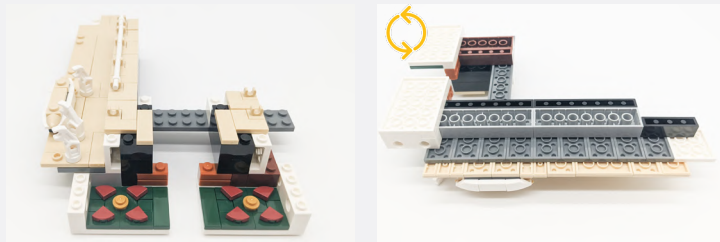
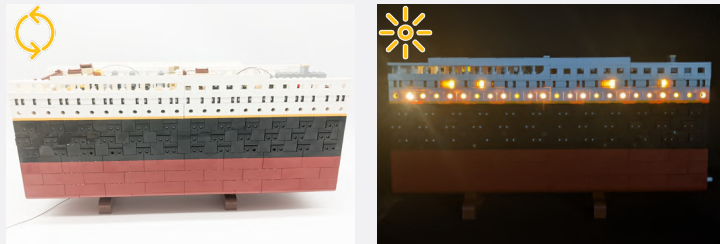
Connect the 5cm Connecting Cable to the 8-Port Expansion Board from step 3.



**Legend**   DISCONNECT   CONNECT / RECONNECT   TURN / FLIP   DIRECTIONAL   TWIST / BRAID   POWER ON TEST   NOTE ICON

📌 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.

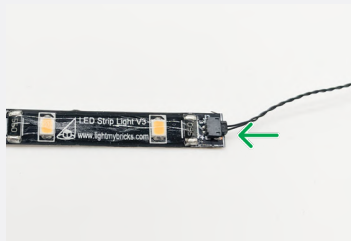
9



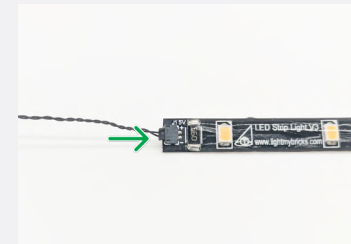
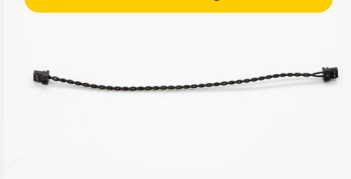
Warm White Strip Light



5cm Connecting Cable



5cm Connecting Cable



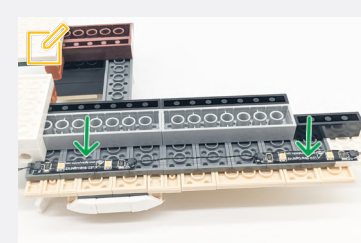
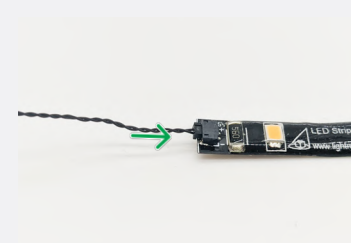
Warm White Strip Light



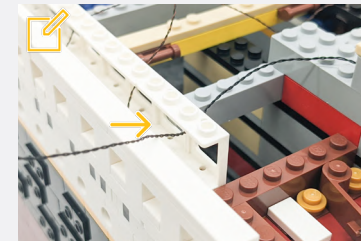
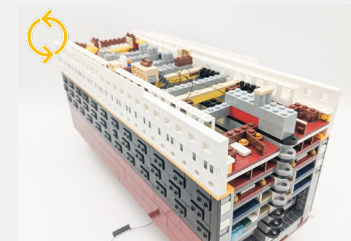
15cm Connecting Cable



📌 Ensure the 15cm Connecting Cable is running to the left.

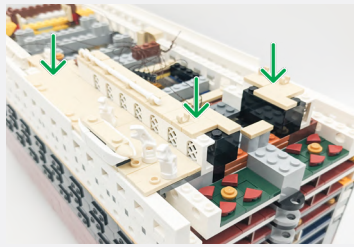


📌 Thread the 15cm Connecting Cable through the window.



Legend → DISCONNECT → CONNECT / RECONNECT ↻ TURN / FLIP → DIRECTIONAL ↺ TWIST / BRAID ✨ POWER ON TEST 📌 NOTE ICON





Warm White Strip Light



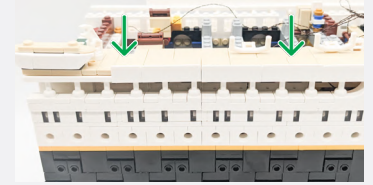
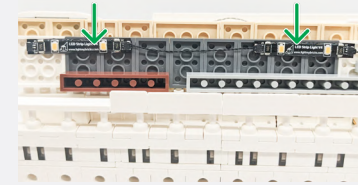
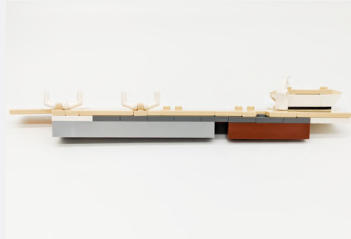
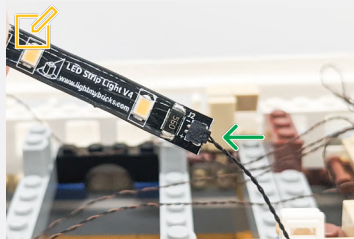
5cm Connecting Cable



Warm White Strip Light



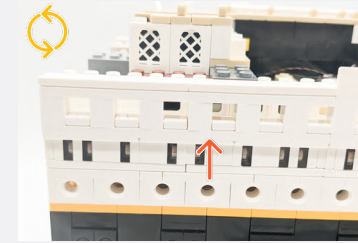
Connect the 5cm Connecting Cable from earlier in this step to the Warm White Strip Light.



Connect the 15cm Connecting Cable to the 8-Port Expansion Board from step 3.



10




15cm Connecting Cable


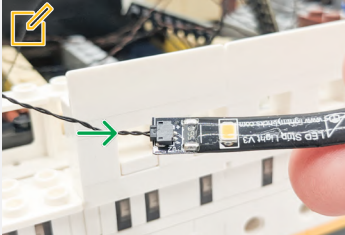


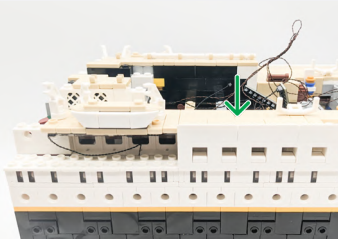





Legend

- DISCONNECT
- CONNECT / RECONNECT
- TURN / FLIP
- DIRECTIONAL
- TWIST / BRAID
- POWER ON TEST
- NOTE ICON

<p>Warm White Strip Light</p> 	
<p>5cm Connecting Cable</p> 	
	
<p>Warm White Strip Light</p> 	<p>5cm Connecting Cable</p> 

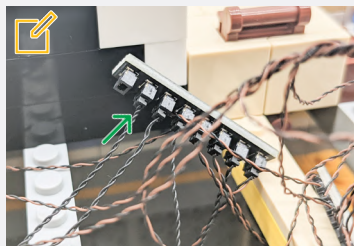
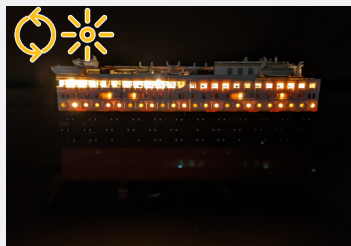
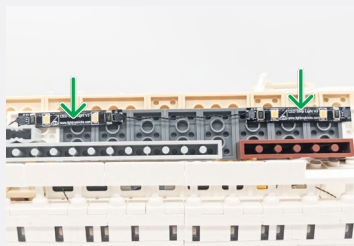
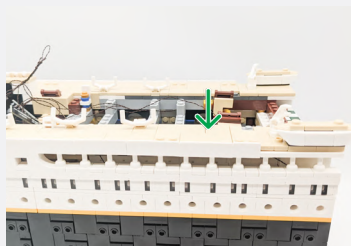
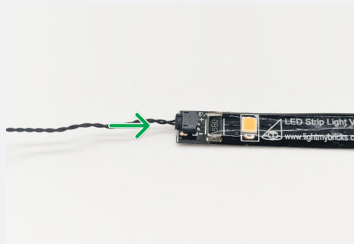
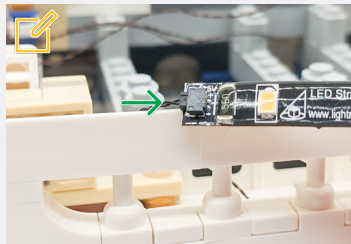
 Connect the 5cm Connecting Cable to the other end of the Warm White Strip Lights.

	
	
	
<p>Warm White Strip Light</p> 	<p>5cm Connecting Cable</p> 

Legend  DISCONNECT  CONNECT / RECONNECT  TURN / FLIP  DIRECTIONAL  TWIST / BRAID  POWER ON TEST  NOTE ICON

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.

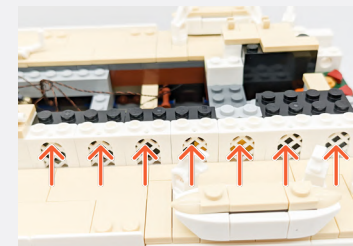
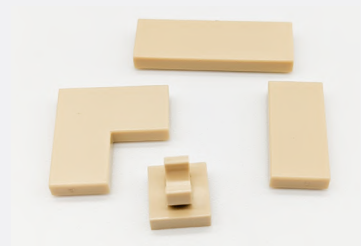
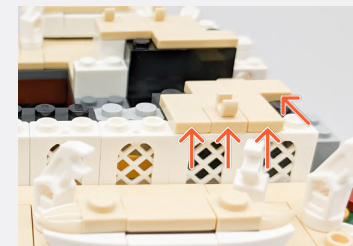
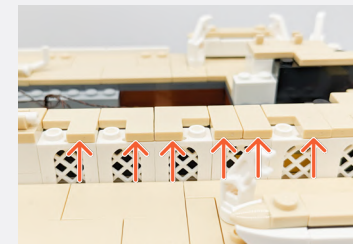
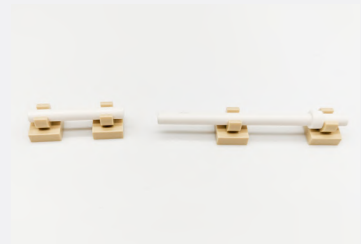
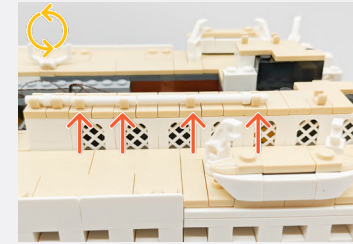
Warm White Strip Light



Connect the 5cm Connecting Cable from earlier in this step to the Warm White Strip Light.

Connect the 15cm Connecting Cable from the beginning of this step to the 8-Port Expansion Board from step 3.

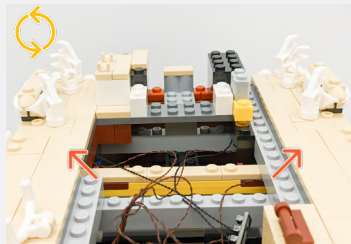
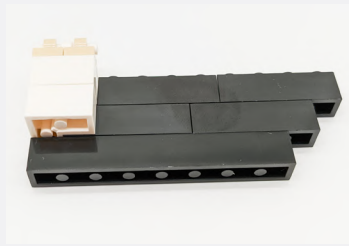
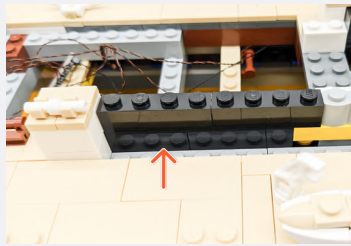
11



Legend

- DISCONNECT
- CONNECT / RECONNECT
- TURN / FLIP
- DIRECTIONAL
- TWIST / BRAID
- POWER ON TEST
- NOTE ICON

12



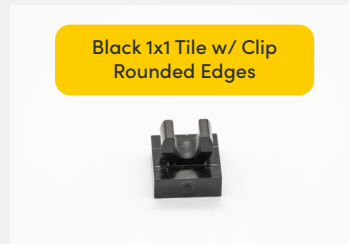
Warm White 30cm Large Bit Light



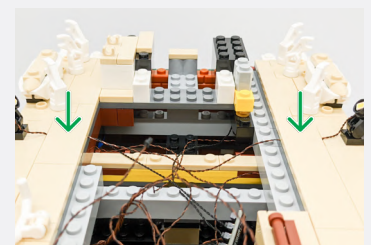
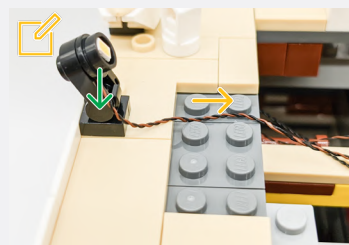
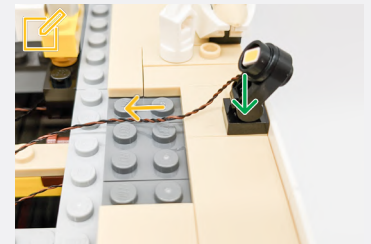
Black Round Plate 1x1 w/ Open Stud




Black 1x1 Plate Modified Plate Rounded w/ Handle



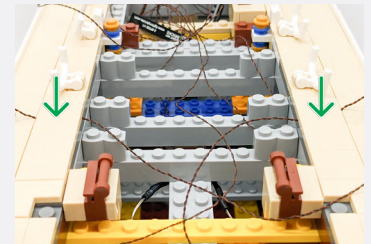
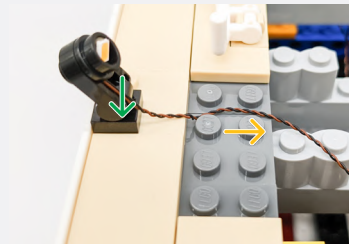
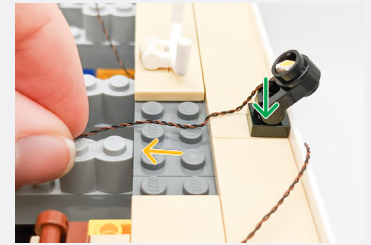
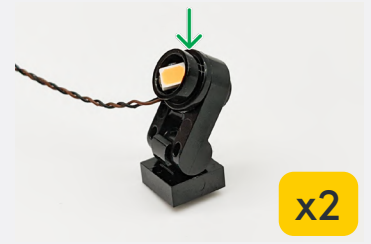
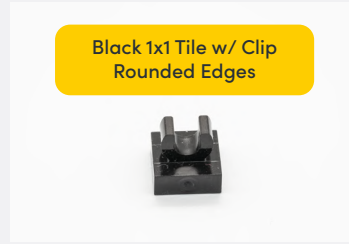
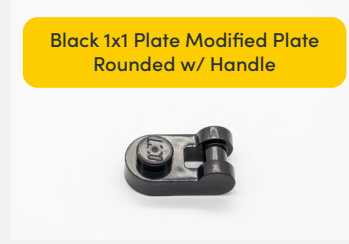
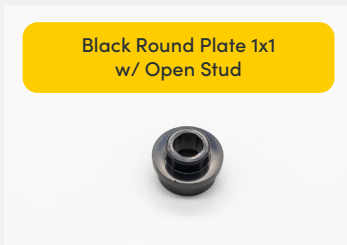
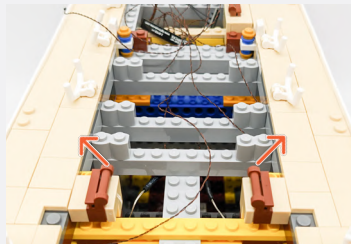
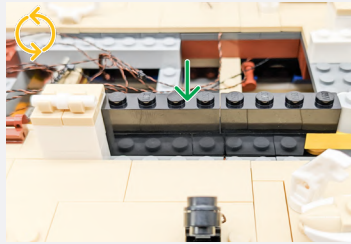
Black 1x1 Tile w/ Clip Rounded Edges



 Position the spotlights as shown and allow some cable slack before adding the tiles.

**Legend** → DISCONNECT → CONNECT / RECONNECT ↻ TURN / FLIP → DIRECTIONAL ↻ TWIST / BRAID \* POWER ON TEST  NOTE ICON

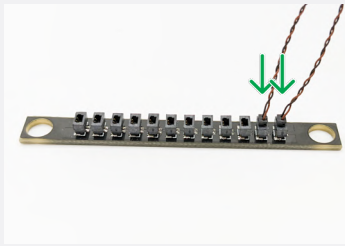
**13**



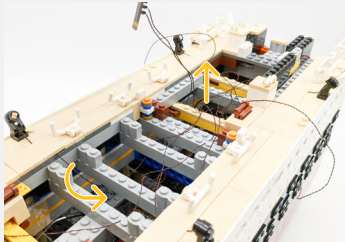
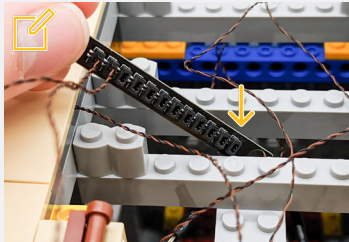
**Legend** → DISCONNECT → CONNECT / RECONNECT ↻ TURN / FLIP → DIRECTIONAL ↻ TWIST / BRAID ✨ POWER ON TEST 📝 NOTE ICON

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.

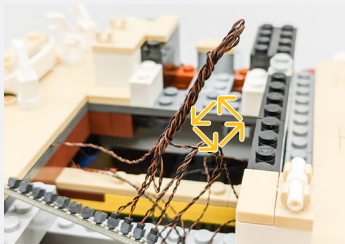
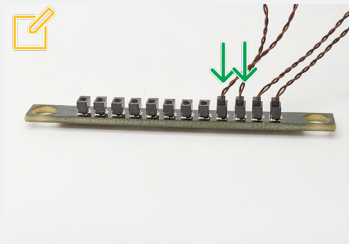
12-Port Expansion Board



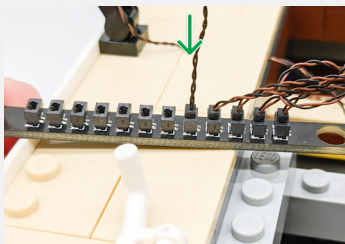
Thread the 12-Port Expansion Board underneath the 1x12 Bricks to the opposite end of the boat.



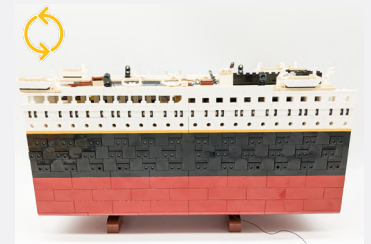
Connect the remaining two Large Bit Light cables from step 12 to the 12-Port Expansion Board.



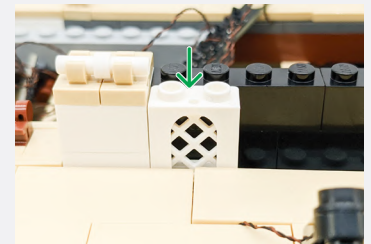
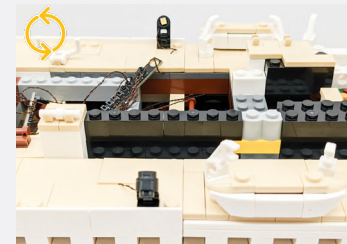
5cm Connecting Cable



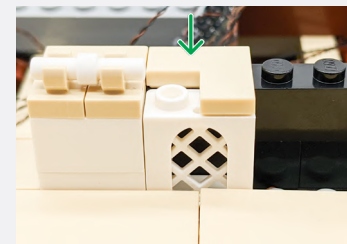
Connect the other end of the 5cm Connecting Cable to the 8-Port Expansion Board from step 3.



14

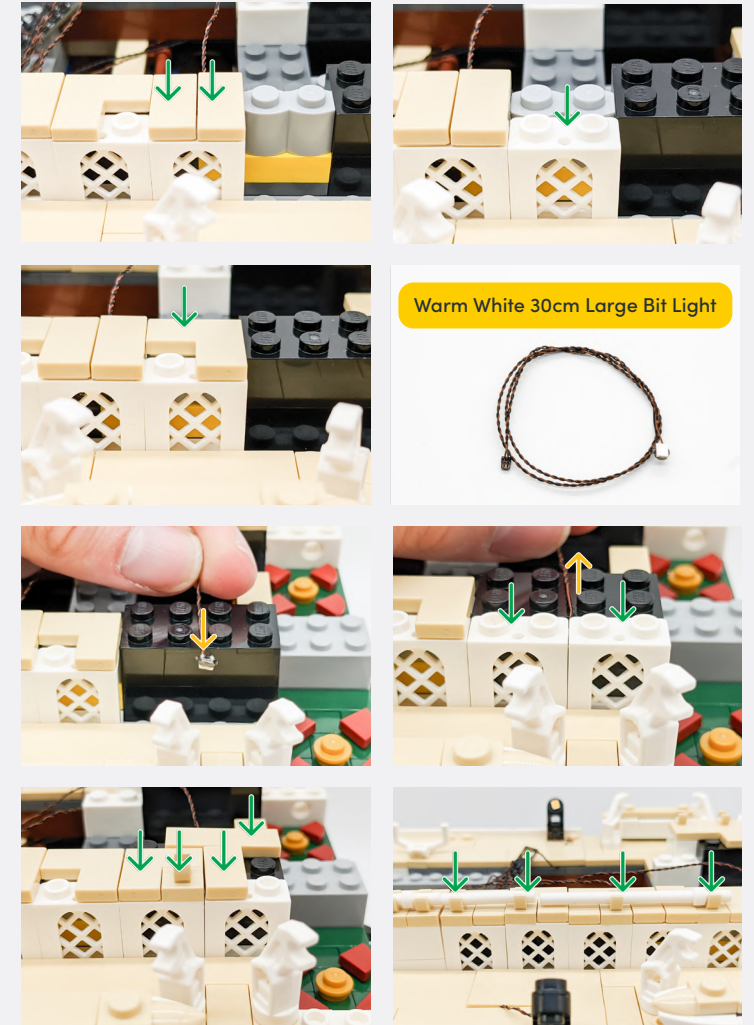
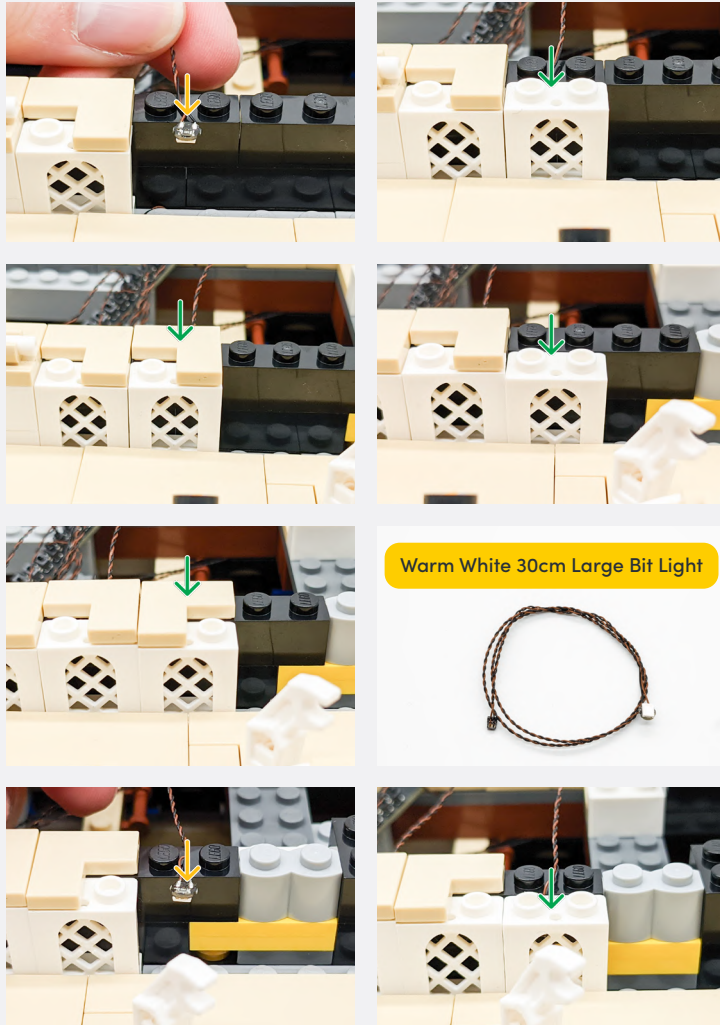


Warm White 30cm Large Bit Light



Legend

- DISCONNECT
- CONNECT / RECONNECT
- TURN / FLIP
- DIRECTIONAL
- TWIST / BRAID
- POWER ON TEST
- NOTE ICON

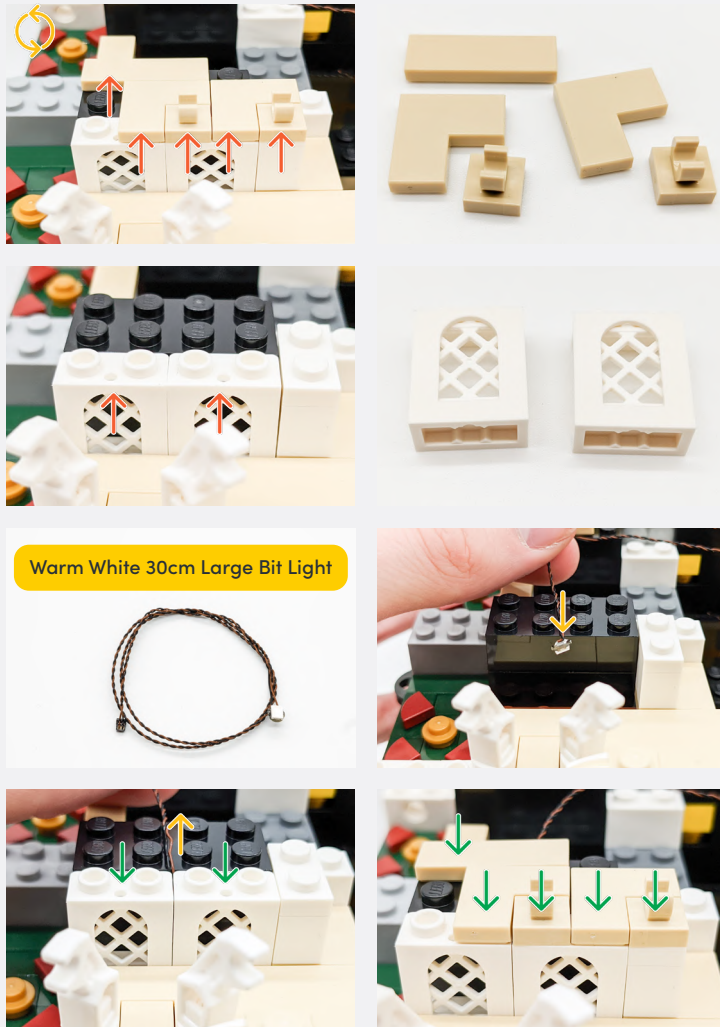


**Legend**

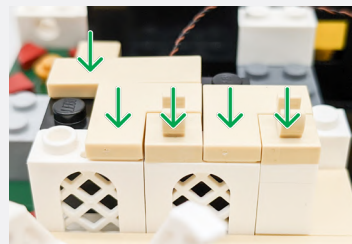
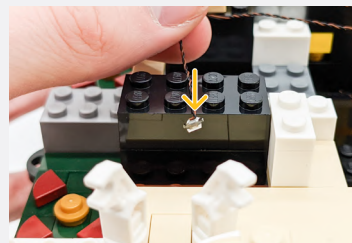
- DISCONNECT
- CONNECT / RECONNECT
- ↻ TURN / FLIP
- DIRECTIONAL
- ↻↻ TWIST / BRAID
- ✳ POWER ON TEST
- 📝 NOTE ICON

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.

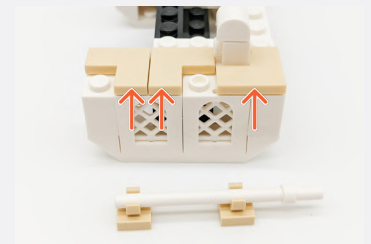
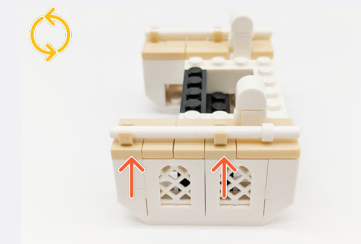
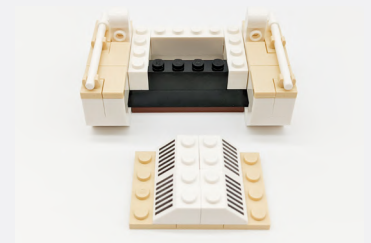
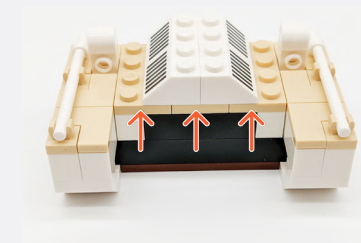
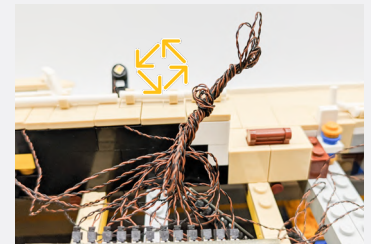
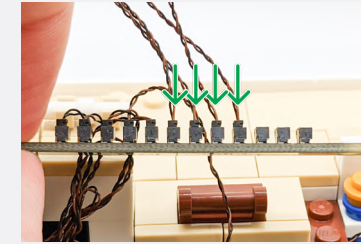
15



Warm White 30cm Large Bit Light



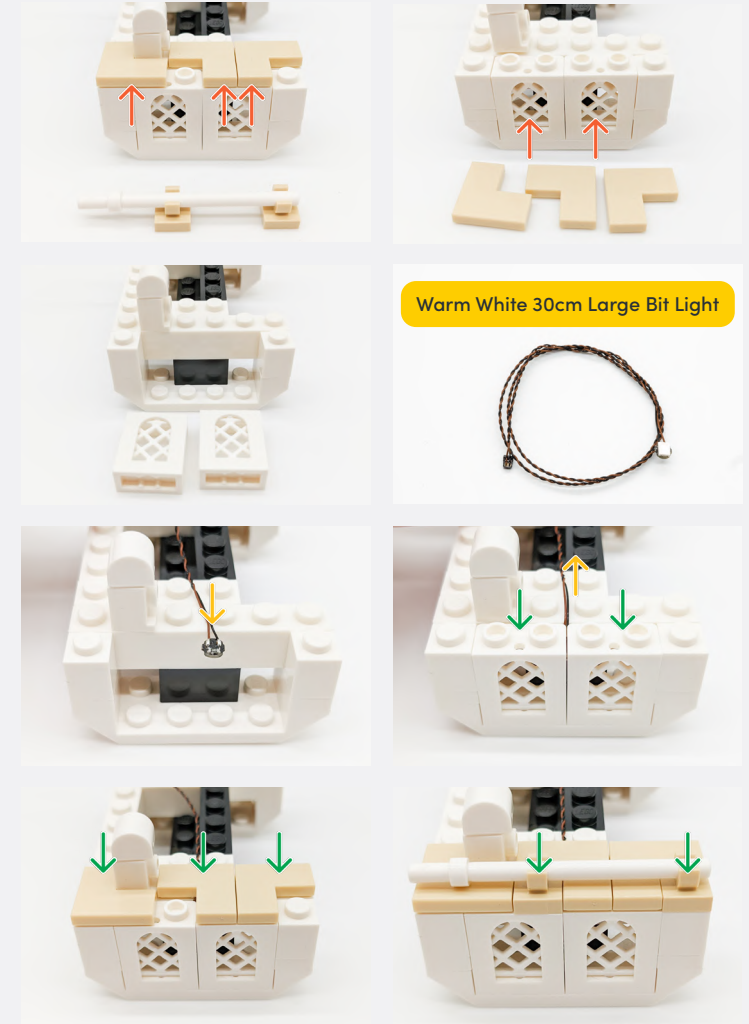
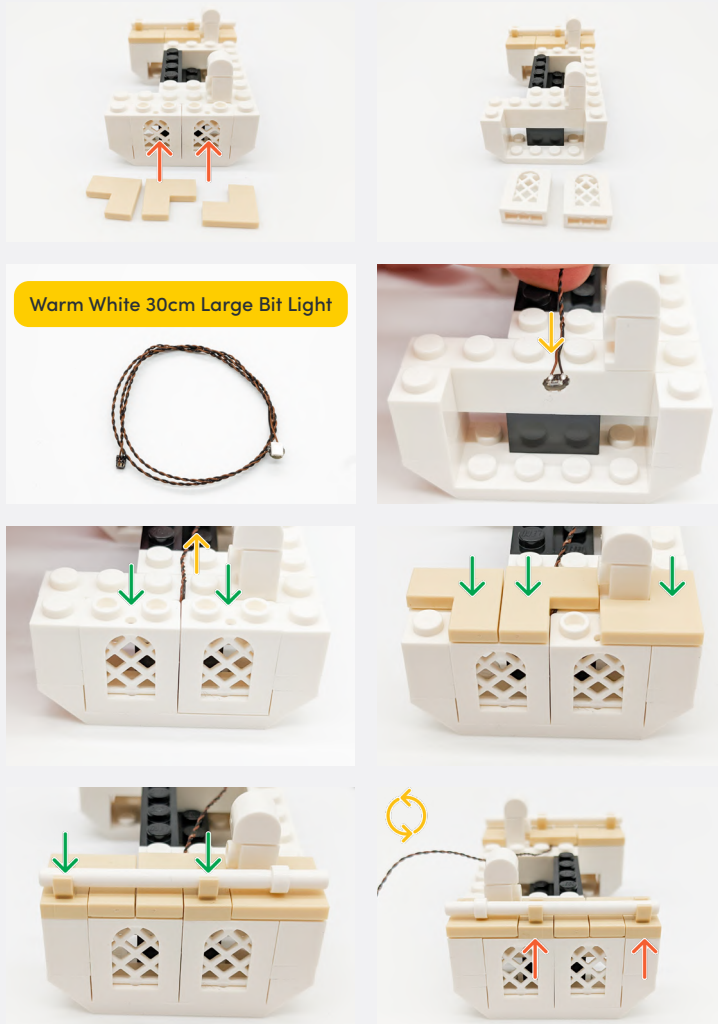
16



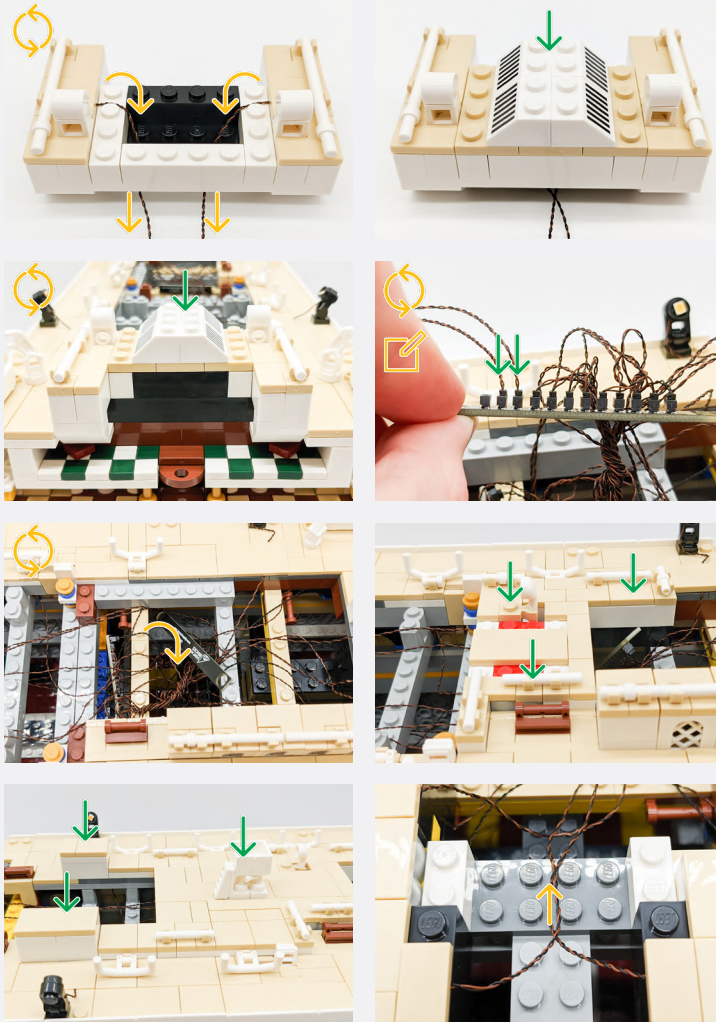
Legend

- DISCONNECT
- CONNECT / RECONNECT
- TURN / FLIP
- DIRECTIONAL
- TWIST / BRAID
- POWER ON TEST
- NOTE ICON



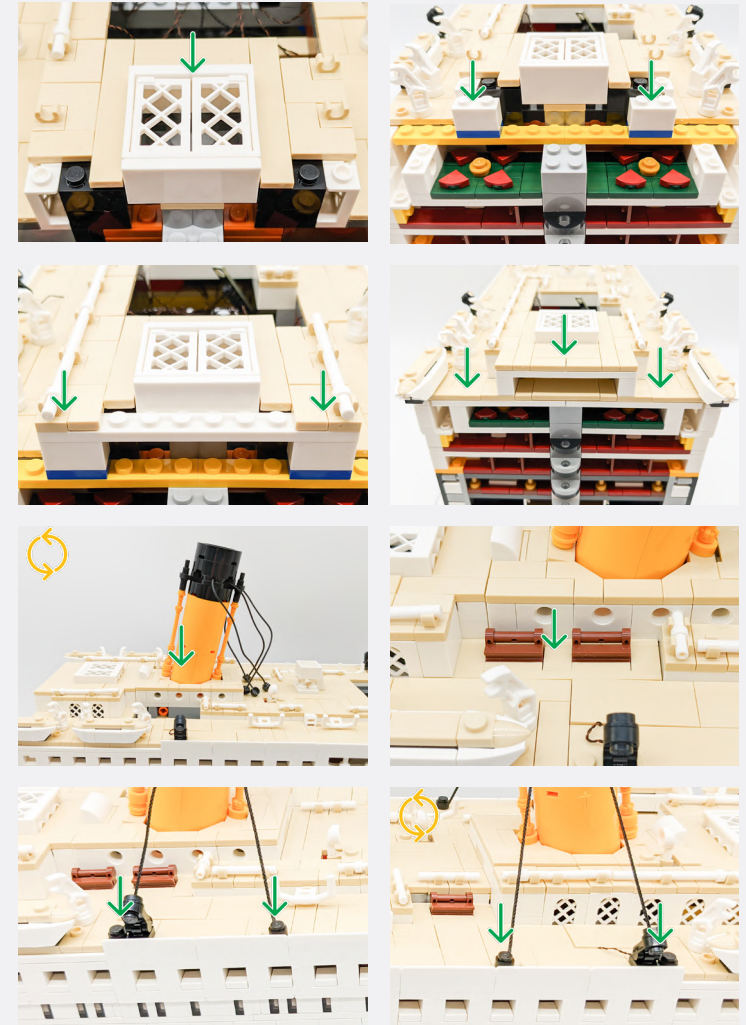


**Legend**    → DISCONNECT    → CONNECT / RECONNECT    ↻ TURN / FLIP    → DIRECTIONAL    ↻ TWIST / BRAID    ✨ POWER ON TEST    📝 NOTE ICON



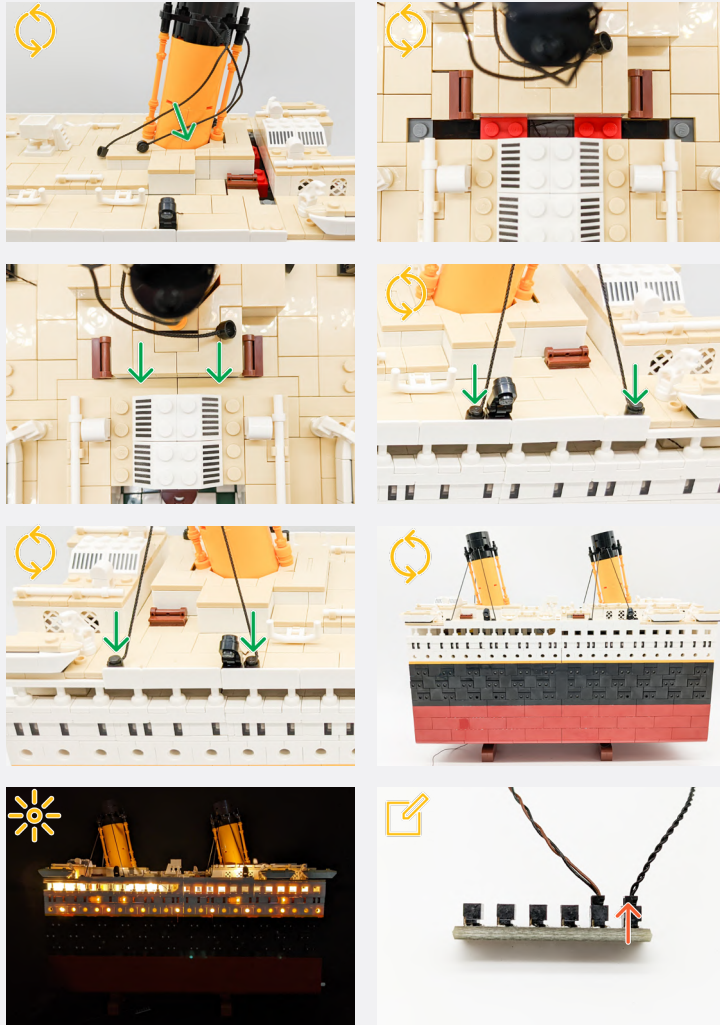
Connect the two Large Bit Light cables to the 12-Port Expansion Board from step 13.

17

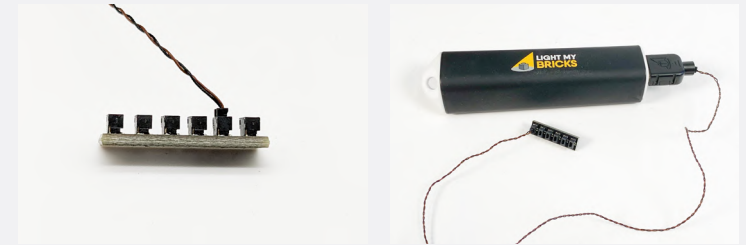
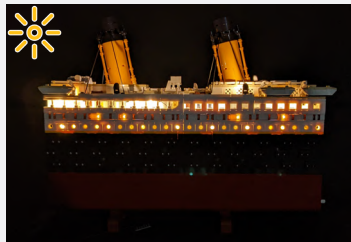


**Legend**    DISCONNECT    CONNECT / RECONNECT    TURN / FLIP    DIRECTIONAL    TWIST / BRAID    POWER ON TEST    NOTE ICON

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.



Disconnect the 50cm Connecting Cable from the 6-Port Expansion Board from step 8.



You've now finished the mid section of the Titanic. Please click here for Part 3 Instructions: HD | Compressed

**Legend** DISCONNECT CONNECT / RECONNECT TURN / FLIP DIRECTIONAL TWIST / BRAID POWER ON TEST NOTE ICON



## 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

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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.

## Troubleshooting

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

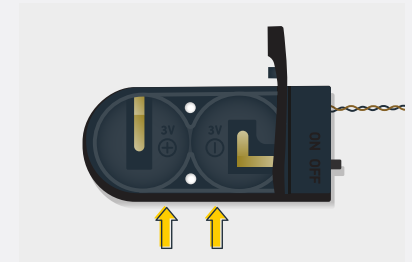
**If the batteries have no power, replace the batteries.**

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

### Check For CR2032 Batteries Using The Flat Battery Pack

Inside the battery pack is a symbol indicating which side the (round) CR2032 battery should be inserted. Check that the “+” side of the battery pack has the battery with the “+” symbol facing downwards.

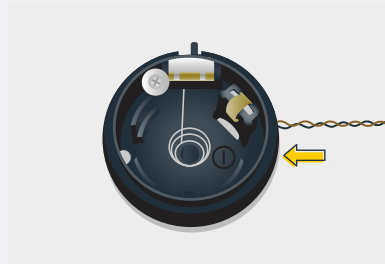
On the opposite side, the “-” side of the battery pack should have the battery flipped upside down, that is the “+” symbol facing upwards.



## Troubleshooting

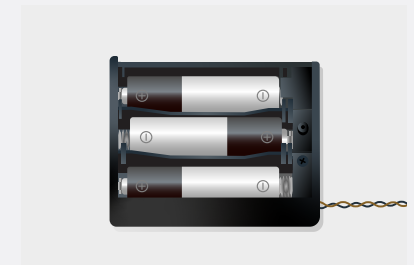
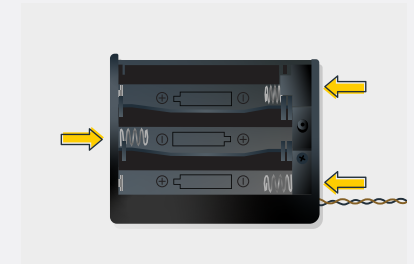
### Check For Cr2032 Batteries Using The Round Battery Pack

Inside the battery pack is a symbol indicating which side the (round) CR2032 battery should be inserted. In this case, for the stacked battery pack, ensure that BOTH batteries have the “+” symbol facing upwards.



### 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

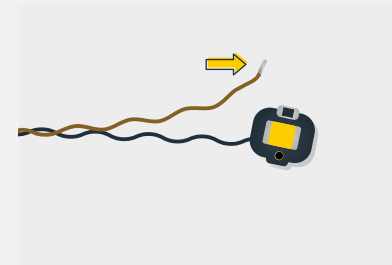
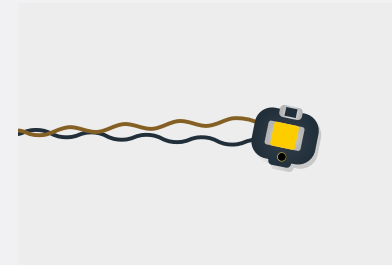
## Check Your Wires

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.





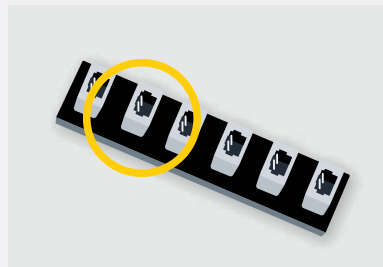
# Troubleshooting

## 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.

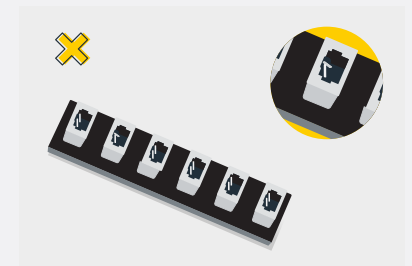
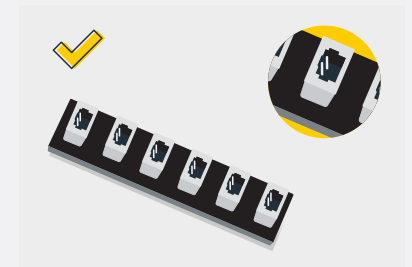
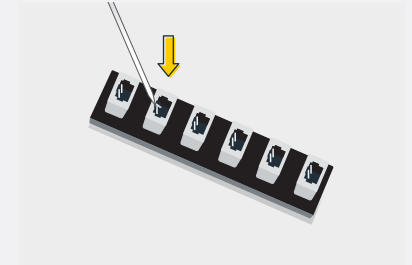
Not only will a light connected to the damaged port not work, but if the pins inside the port are bent to a point they are touching each other, this can result in all other lights in the system to stop working. This is a short circuit.



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

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



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