LIGHT MY BRICKS

LEGO® GREAT PYRAMID OF GIZA #21058 LIGHT KIT

INSTALLATION GUIDE

Light My Bricks

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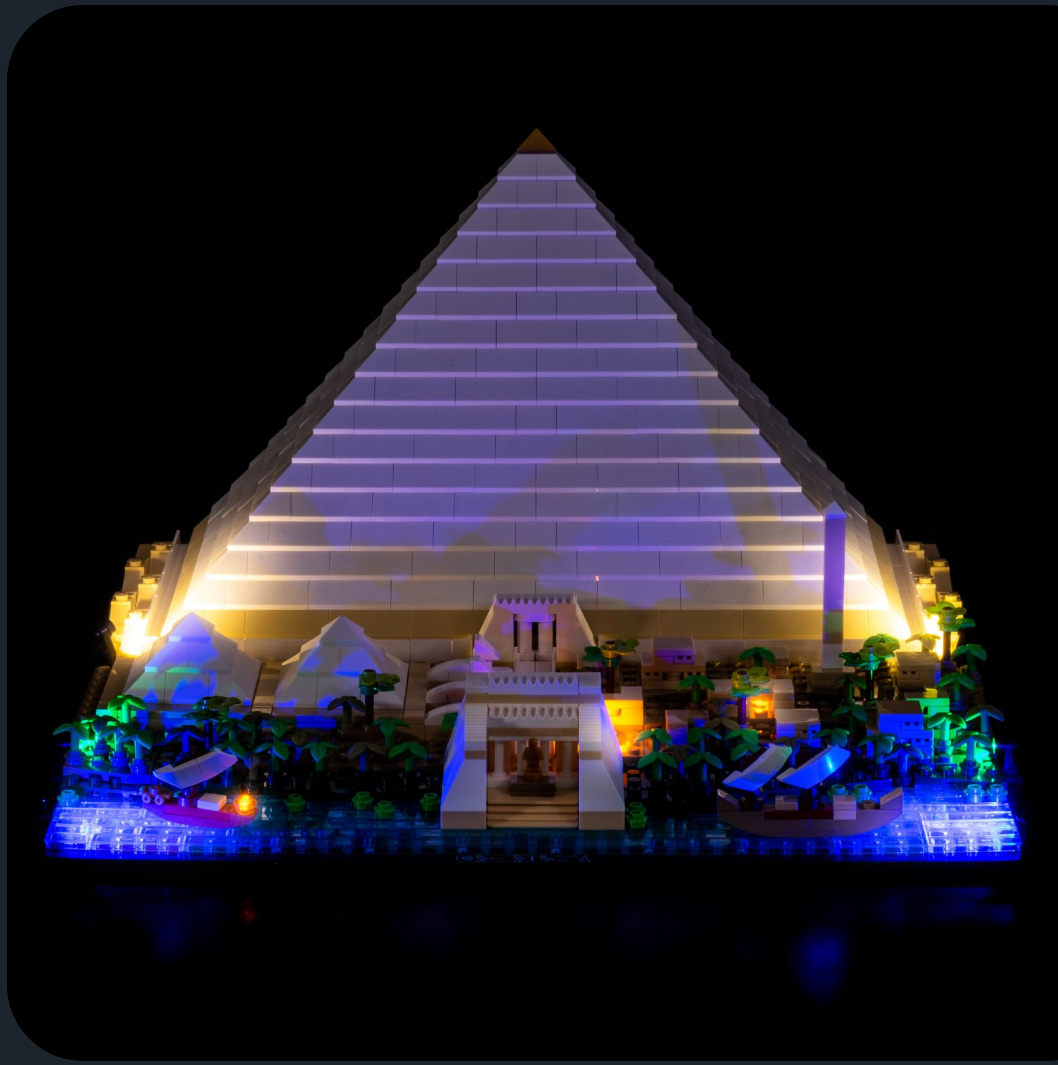

Hi There!

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

Great Pyramid of Giza 21058 Light Kit.

This PDF details the instructions for the LED light kit only. If you are wishing to purchase this product, please click here to view the product page.

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

Have fun and enjoy!

PACKAGE CONTENTS:

2x Large Blue Bit Light 30cm
2x Green Bit Light 30cm
2x Large Warm White Bit Light 30cm
4x Orange Bit Light 30cm*
2x Large Orange Bit Light 30cm

3x 6-Port Expansion Board
1x Flicker Effects Board

8x Adhesive Square

3x 5cm Connecting Cable

1x USB Power Cable
(Power Source not Included)

ASSORTED BRICKS:

- 6x Plate 1x1 Mod Rounded w Handle - Black
- 6x Round Plate 1x1 Open Stud - Black
- 6x Tile 1x1 W Clip Round Edges - Black
- 4x Plate 1x2 MW Stud Jumper - Black
- 4x Tile 1x1 - Black
- 1x Plate 1x1 - Black
- 1x Plate 2x2 w Rounded Bottom – Trans Clear
- 1x Round Plate 1x1 Open Stud - Trans Orange
- 3x Round Plate 1x1 - Trans Orange
- 1x Wave Rounded Small with Pin (Candle Flame)

* Indicates components which include spares

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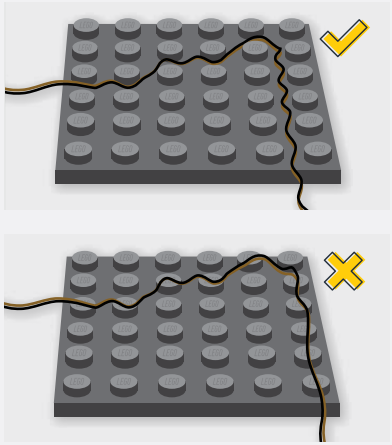
Before You Begin



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

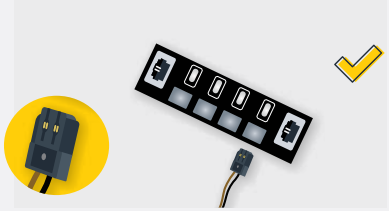
Take extra care when inserting connectors to ports of Expansion Boards. Connectors can be inserted only one way. With the expansion board facing up, look for the soldered "=" symbol on the left side of the port. The connector side with the wires exposed should be facing toward the soldered "=" symbol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

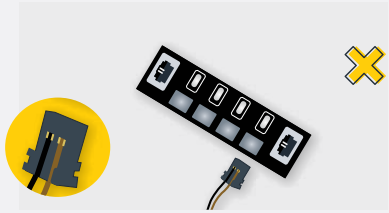
Incorrectly inserting the connector can result in bent pins inside the port or possible overheating of the expansion board when connected.

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.





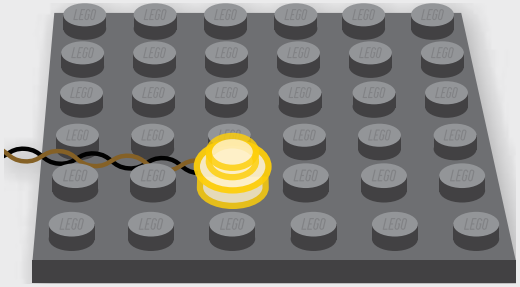
Connecting Micro Cable Connectors To Micro Expansion Board Ports

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.

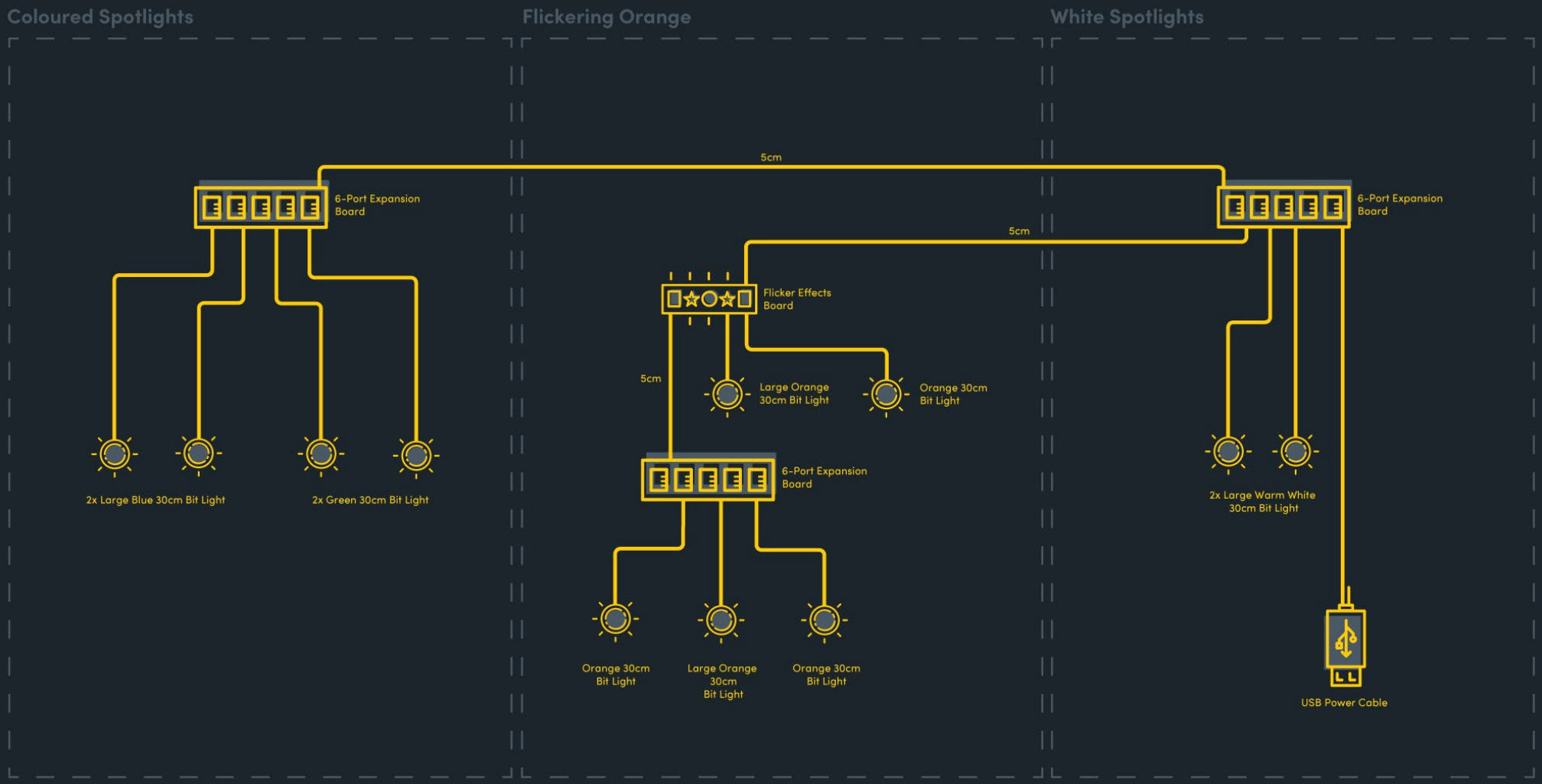
Before You Begin

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.



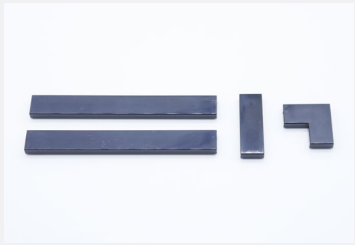
BLUEPRINT

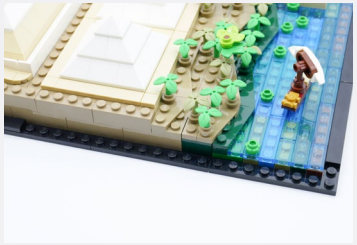

Coloured Spotlights
Flickering Orange
White Spotlights
5cm
6-Port Expansion Board
5cm
6-Port Expansion Board
Flicker Effects Board
5cm
Large Orange 30cm Bit Light
Orange 30cm Bit Light
6-Port Expansion Board
2x Large Blue 30cm Bit Light
2x Green 30cm Bit Light
2x Large Warm White 30cm Bit Light
Orange 30cm Bit Light
Large Orange 30cm Bit Light
Orange 30cm Bit Light
USB Power Cable

INSTRUCTIONS

To ensure a smooth installation of your light kit, please read and follow each step carefully. If you run into any issues, please refer to the online troubleshooting guide.

1

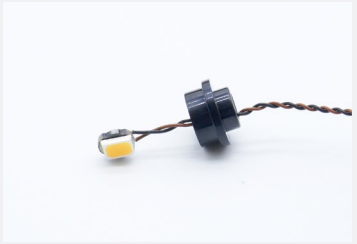




2

1x1 Round Plate Open Stud - Black

Large Warm White Bit Light 30cm



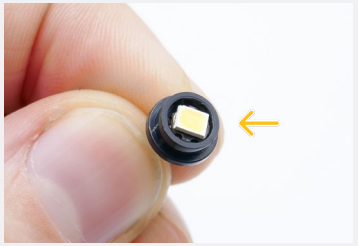
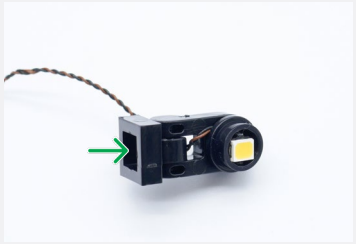


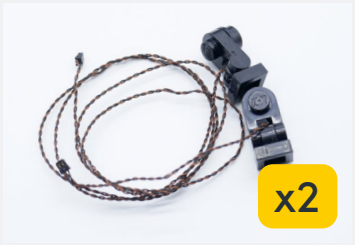
Plate 1x1 Mod Rounded w/ Handle - Black

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

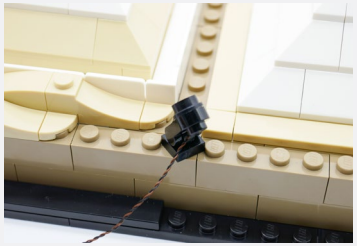
3

Tile 1x1 W Clip Round Edges - Black



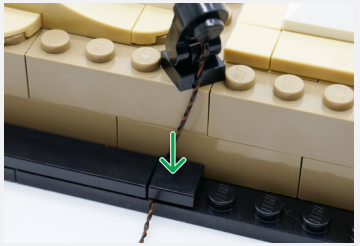


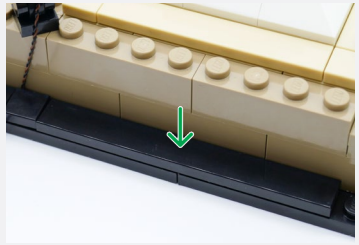
x2



Tile 1x1 - Black

4





1x1 Round Plate Open Stud - Black

Green Bit Light 30cm

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

Plate 1x1 Mod Rounded w/ Handle - Black

Tile 1x1 W Clip Round Edges - Black

x2

5

Plate 1x2 MW Stud Jumper - Black

Plate 1x1 - Black

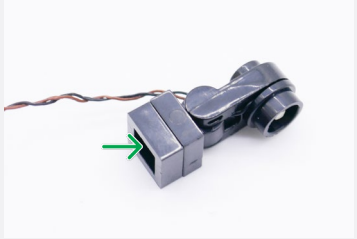
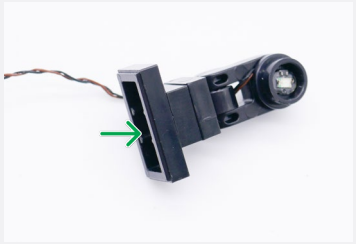
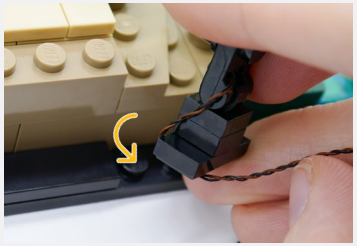
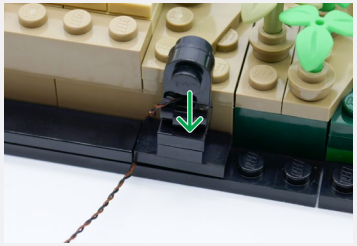


Plate 1x2 MW Stud Jumper - Black

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

6



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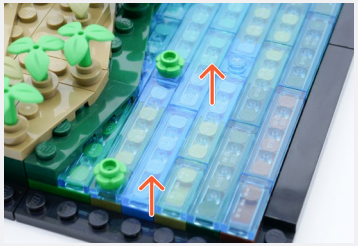
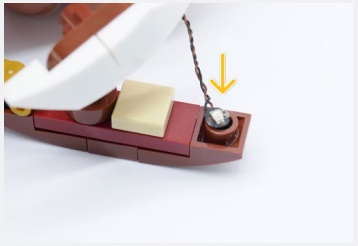


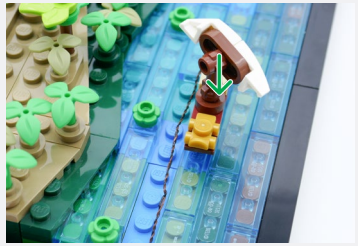
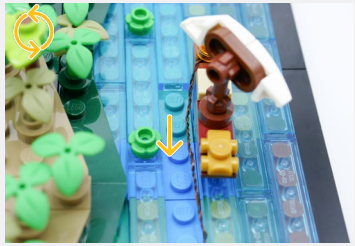
Orange Bit Light 30cm

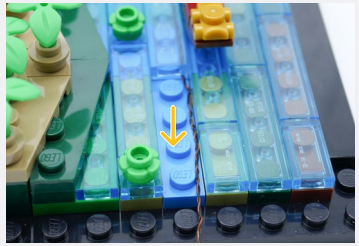


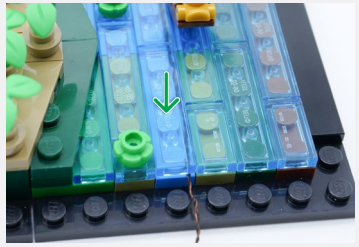
Round Plate 1x1 - Trans Orange

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

8





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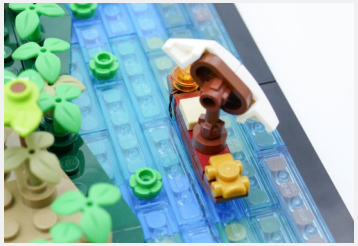
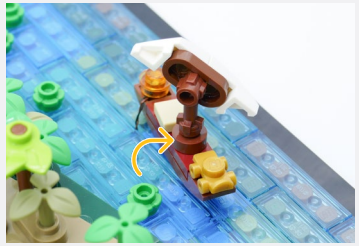
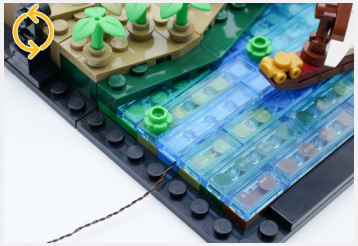
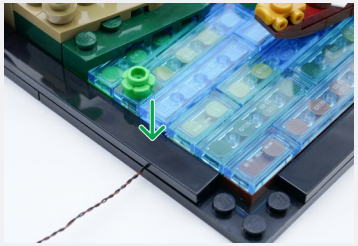






1x1 Round Plate Open Stud - Black

Large Blue Bit Light 30cm

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

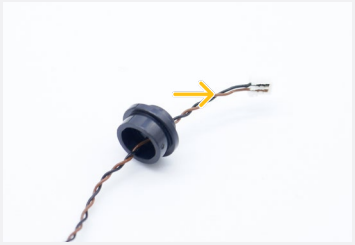
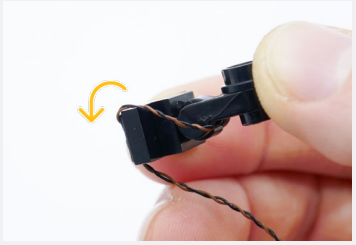


Plate 1x1 Mod Rounded w/ Handle - Black

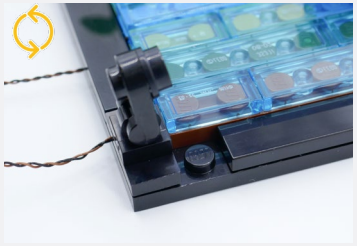
Tile 1x1 W Clip Round Edges - Black

10

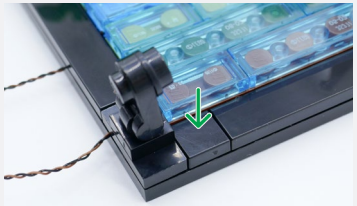
Plate 1x2 MW Stud Jumper - Black

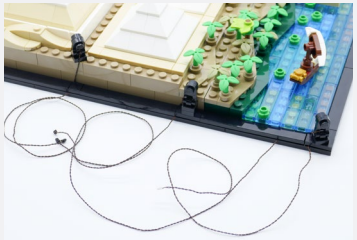


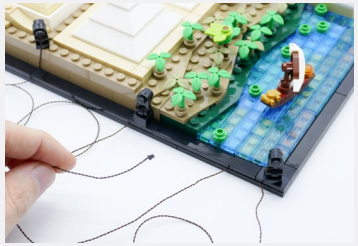
Legend → DISCONNECT → CONNECT / RECONNECT ↻ TURN / FLIP → DIRECTIONAL ⤢ TWIST / BRAID ✳ POWER ON TEST ✎ NOTE ICON



Tile 1x1 - Black

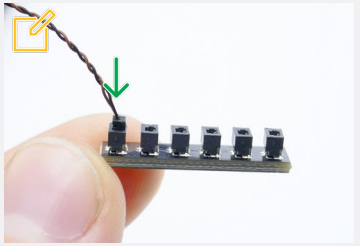




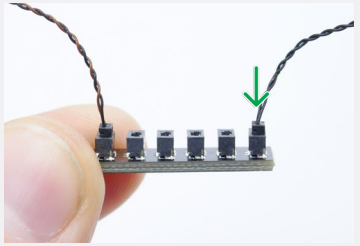


6-Port Expansion Board

Connect the Orange Bit Light Cable from the boat to the 6-Port Expansion Board

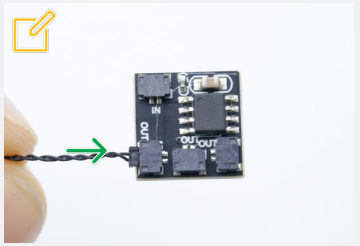


5cm Connecting Cable



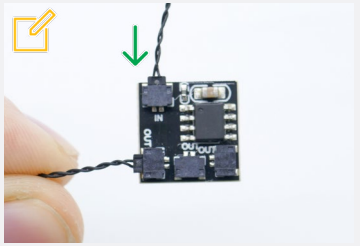
Flicker Effects Board

Connect the 5cm Connecting Cable into the “OUT” port of the Flicker Effects Board



5cm Connecting Cable

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

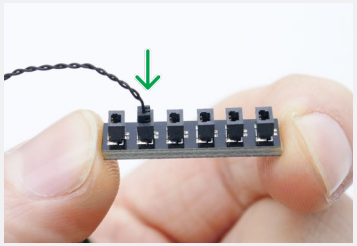


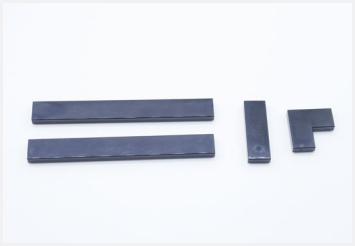
6-Port Expansion Board

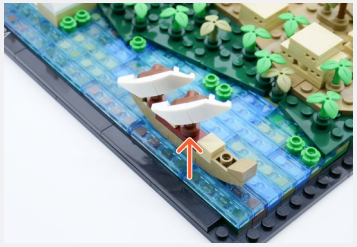
11

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

12

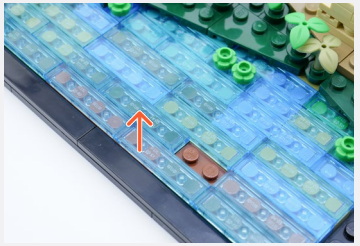


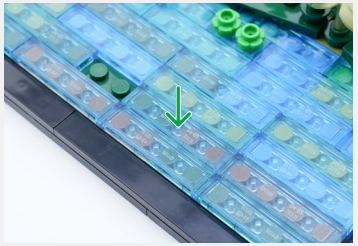
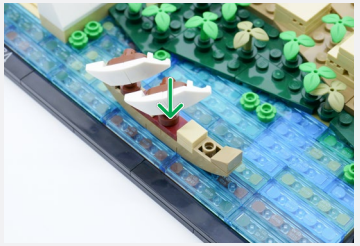




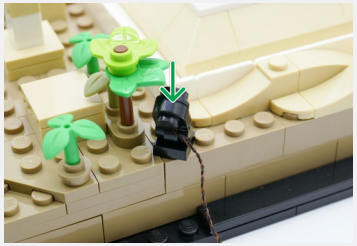
13

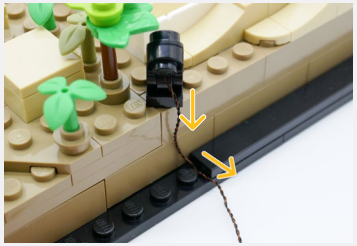
Use the second Large Warm White LED Spotlight



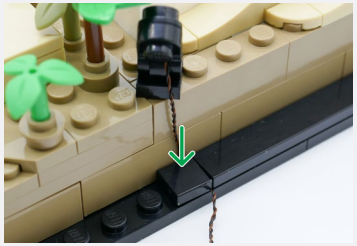



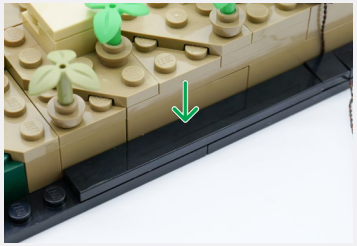
Legend → DISCONNECT → CONNECT / RECONNECT ↻ TURN / FLIP → DIRECTIONAL ⇲ TWIST / BRAID ✳ POWER ON TEST ✎ NOTE ICON

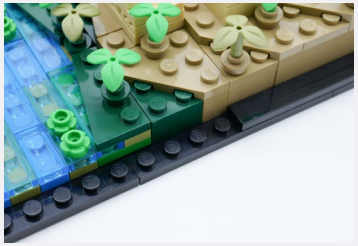




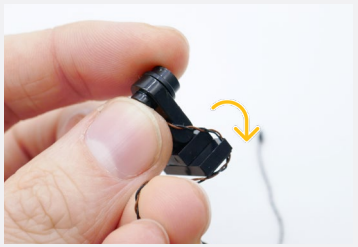
Tile 1x1 - Black

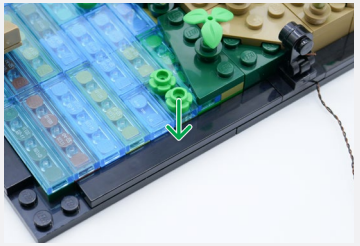






Take the second Green LED Spotlight

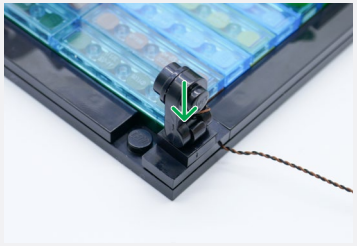




15

Take the second Large Blue LED Spotlight

Legend → DISCONNECT → CONNECT / RECONNECT ↻ TURN / FLIP → DIRECTIONAL ⤢ TWIST / BRAID ✳ POWER ON TEST ✎ NOTE ICON

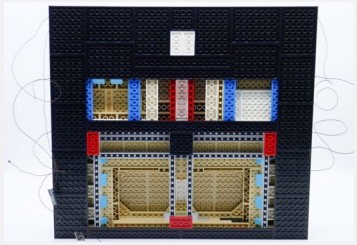


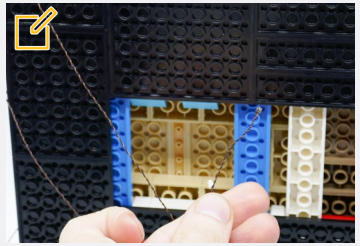
Tile 1x1 - Black

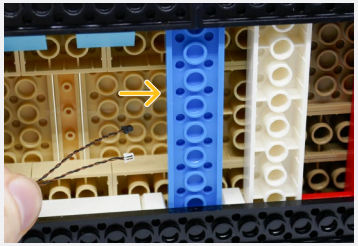
16

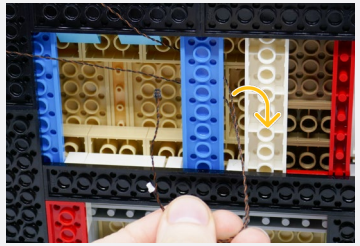
Lift from the middle of the front to flip it up on its side

Take the Green and Large Blue Spotlight cables on the left side

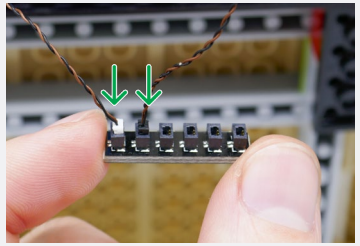




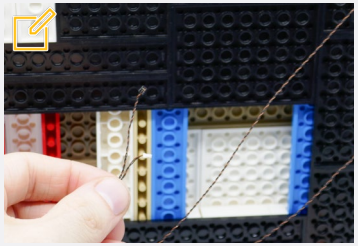


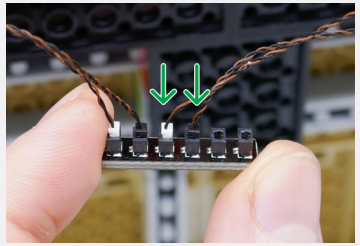


6-Port Expansion Board



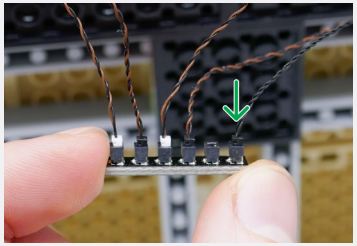
Take the Green and Large Blue Spotlight cables on the right side

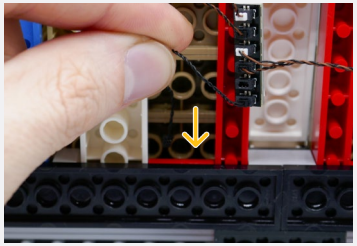




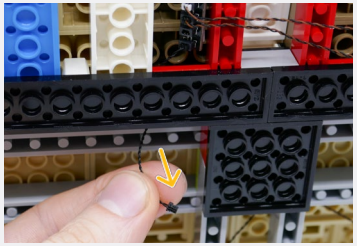
Legend — DISCONNECT — CONNECT / RECONNECT — TURN / FLIP — DIRECTIONAL — TWIST / BRAID — POWER ON TEST — NOTE ICON

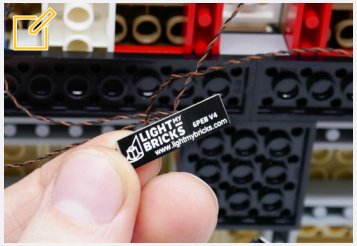
5cm Connecting Cable





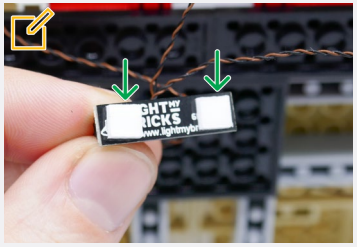
Take the 6-Port Expansion Board with the Green and Large Blue Spotlights



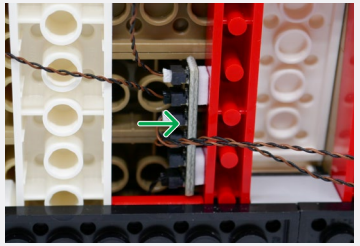


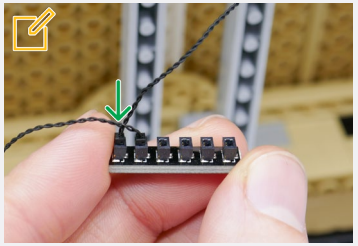
Peel off the adhesive square backings

2x Adhesive Square

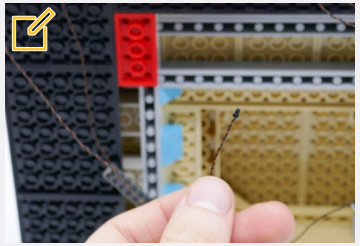


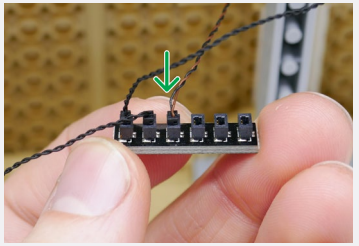
Connect the other end of the 5cm Connecting Cable to second 6-Port Expansion Board from Step 11 (the one connected to the 'IN' port of the Flicker Effects Board)



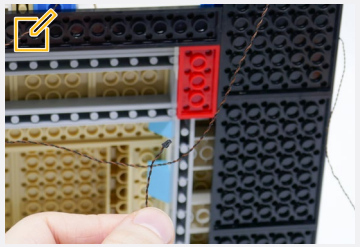


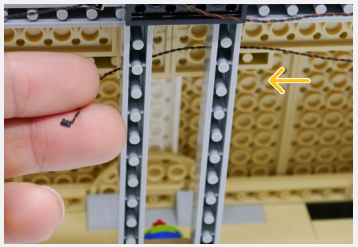
Take the Warm White Spotlight Cable from the left side and connect it into the same 6-Port Expansion Board

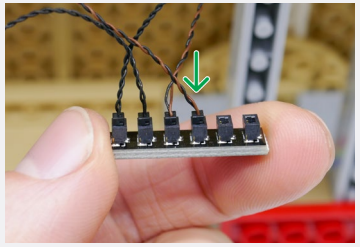


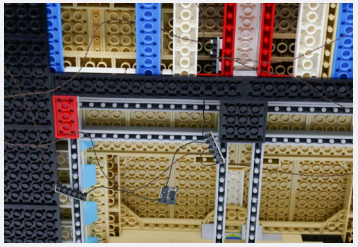


Take the Warm White Spotlight Cable from the right side and connect it into the same 6-Port Expansion Board







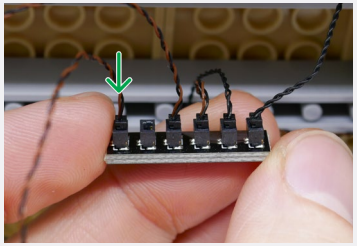


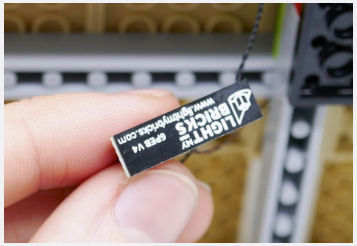
Legend → DISCONNECT → CONNECT / RECONNECT ↻ TURN / FLIP → DIRECTIONAL ⤢ TWIST / BRAID ✳ POWER ON TEST ✎ NOTE ICON

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.

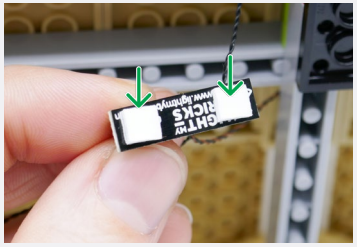
17

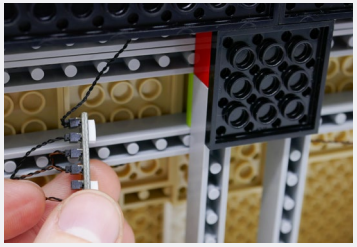
USB Power Cable

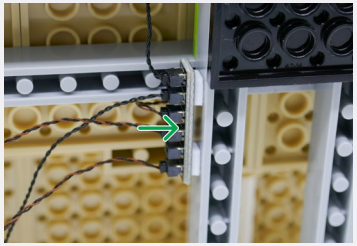


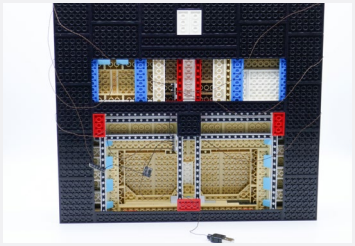


2x Adhesive Square

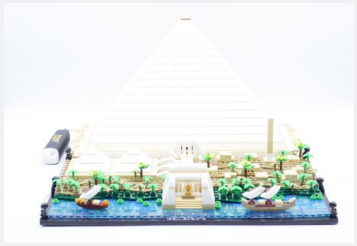


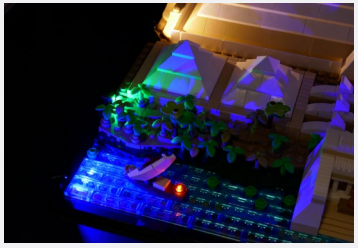






Connect the other end to a 5V USB Power Bank, 5V USB Wall Adaptor, or USB to AA Battery Pack (sold separately)

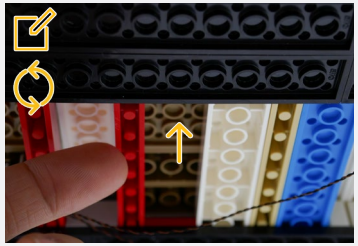
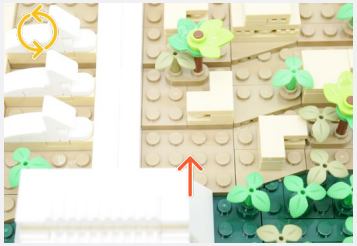
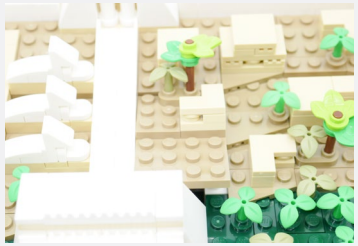


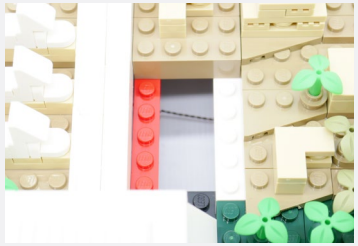


Legend → DISCONNECT → CONNECT / RECONNECT ↻ TURN / FLIP → DIRECTIONAL ⤢ TWIST / BRAID ✳ POWER ON TEST ✎ NOTE ICON

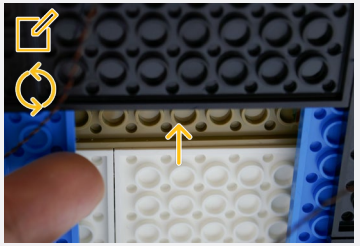
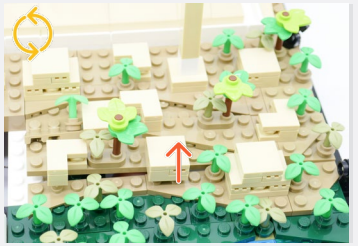
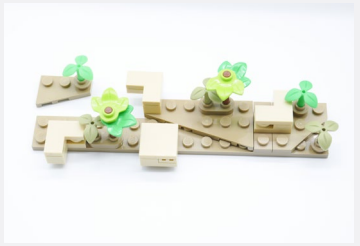
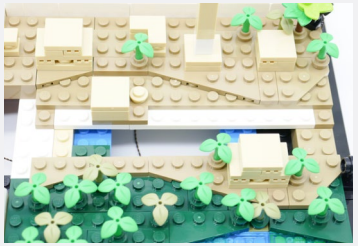
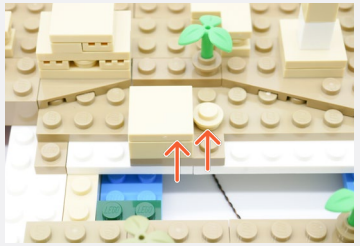
18

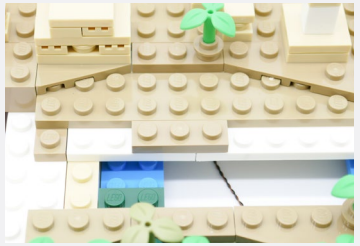
Lift up the LEGO panel from from underneath by pressing and prying upwards



Perform the same action as before with this larger panel from te far right side

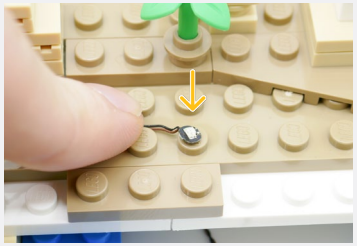








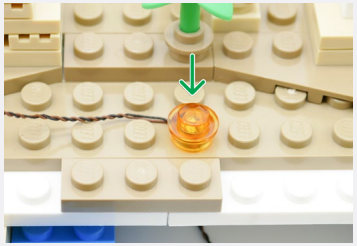
Legend → DISCONNECT → CONNECT / RECONNECT ↻ TURN / FLIP → DIRECTIONAL TWIST / BRAID POWER ON TEST NOTE ICON

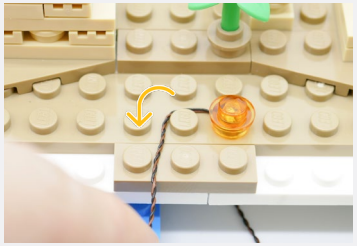
19

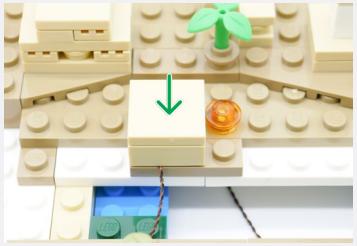
Orange Bit Light 30cm

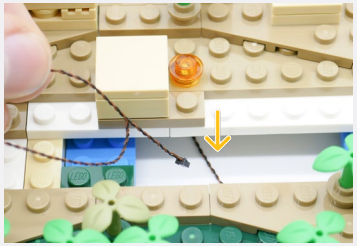


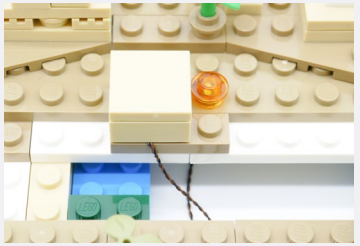
Round Plate 1x1 - Trans Orange

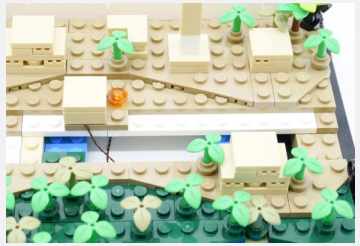


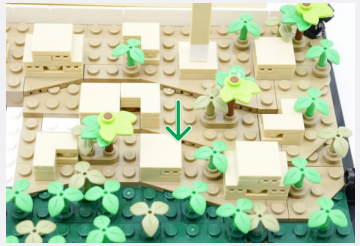


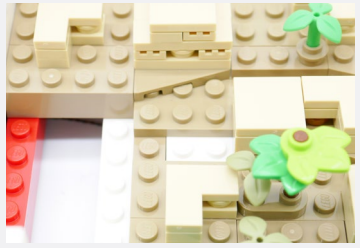


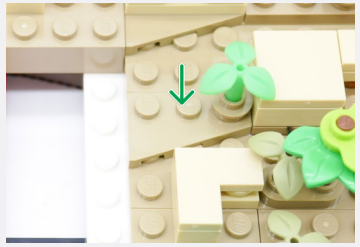












Legend → DISCONNECT → CONNECT / RECONNECT ↻ TURN / FLIP → DIRECTIONAL ⇲ TWIST / BRAID ✳ POWER ON TEST ✎ NOTE ICON

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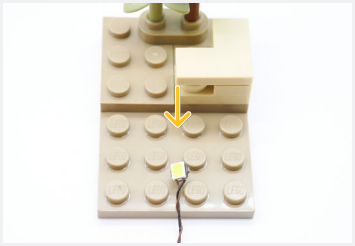
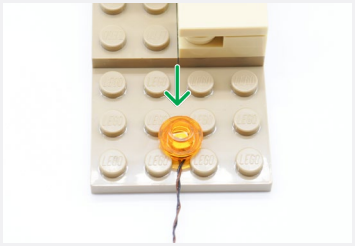
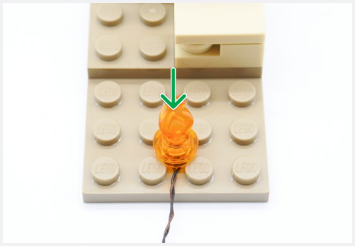
Large Orange Bit Light 30cm

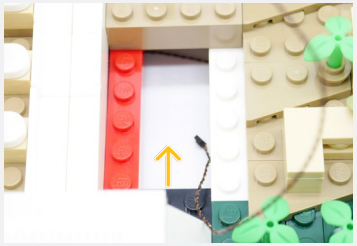


Round Plate 1x1 Open Stud - Trans Orange

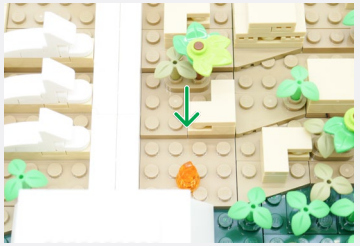


Wave Rounded Small with Pin (Candle Flame)

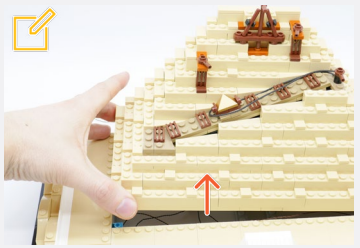


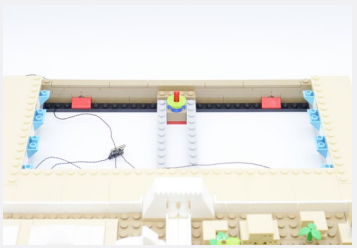


21

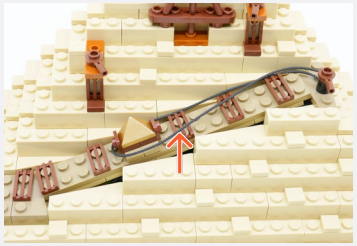


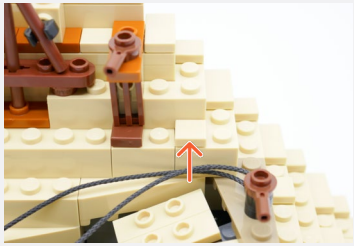
Remove the inner pyramid section by lifting it from its corners and underneath



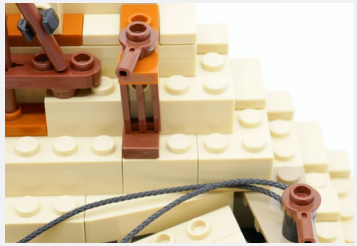
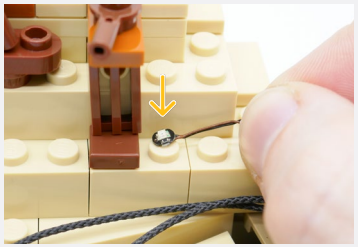
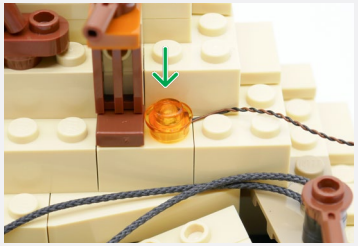
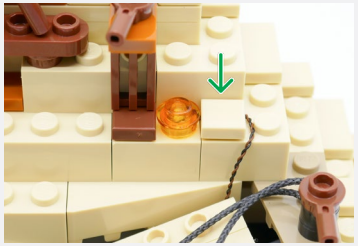


Legend — DISCONNECT · CONNECT / RECONNECT · TURN / FLIP · DIRECTIONAL · TWIST / BRAID · POWER ON TEST · NOTE ICON





22

Orange Bit Light 30cm

Round Plate 1x1 - Trans Orange

Legend → DISCONNECT → CONNECT / RECONNECT ↻ TURN / FLIP → DIRECTIONAL ⤢ TWIST / BRAID ✳ POWER ON TEST ✎ NOTE ICON

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Large Orange Bit Light 30cm

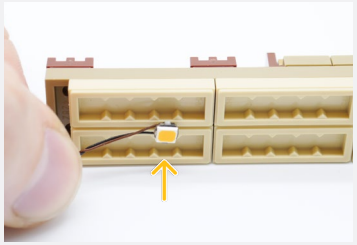
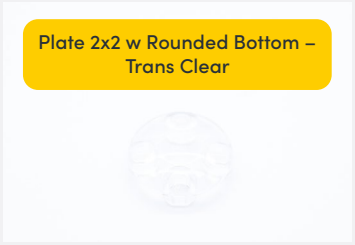
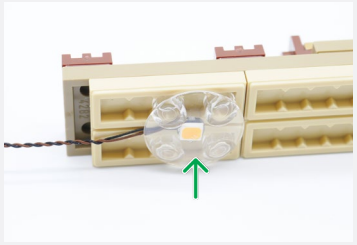


Plate 2x2 w Rounded Bottom – Trans Clear





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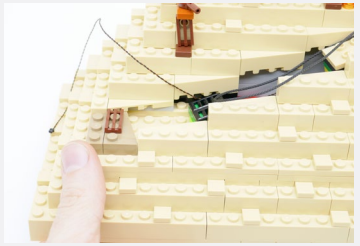
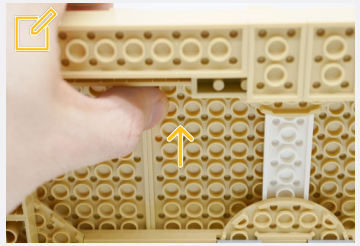
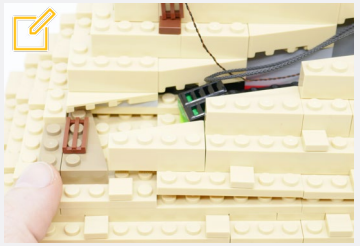
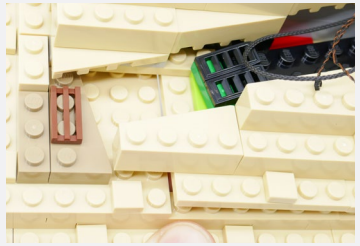
Lift up the middle section slightly by pressing from underneath to make a small gap

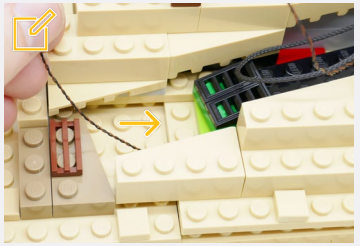


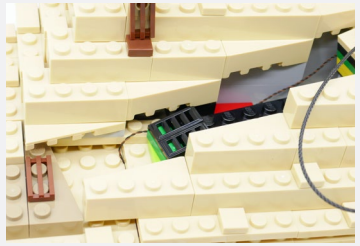




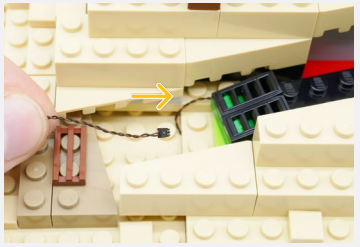


Grab the Orange Bit Light cable and thread in between the plates



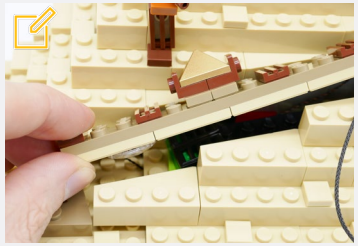


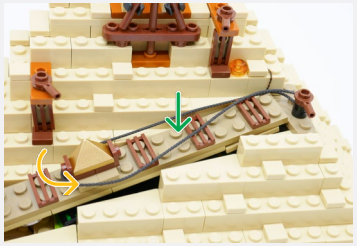
Grab the Large Orange Bit Light cable and thread in between the plates



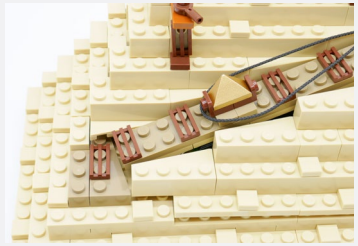
Legend — DISCONNECT — CONNECT / RECONNECT — TURN / FLIP — DIRECTIONAL — TWIST / BRAID — POWER ON TEST — NOTE ICON

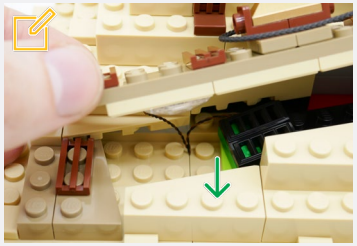
Thread both the cables in the gap as far as they can go and place the panel back on top

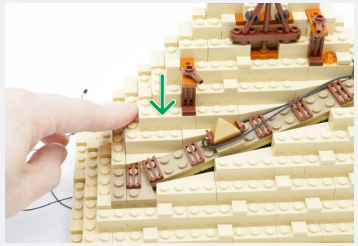




Press back down the separated middle section carefully with the cables in between







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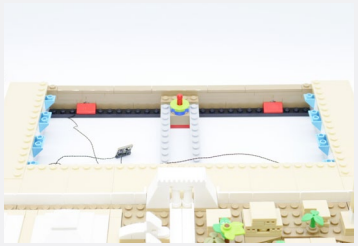
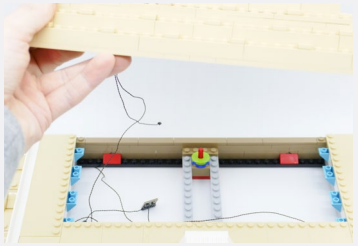
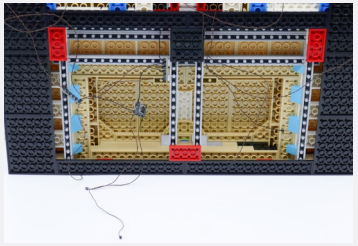
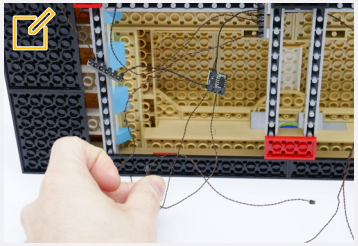
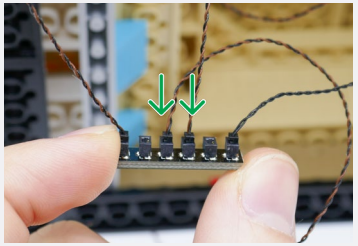






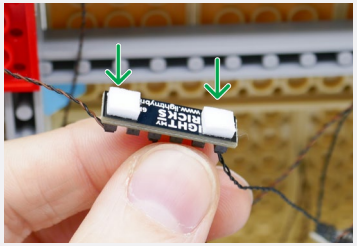
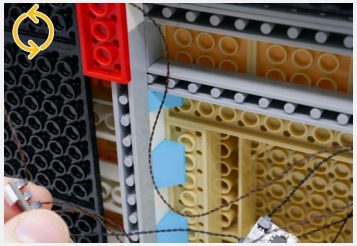
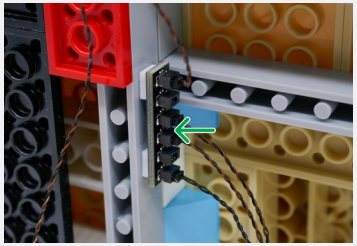
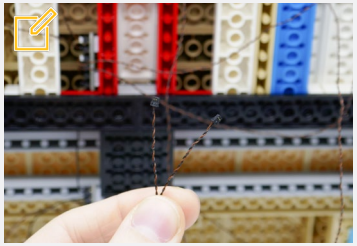
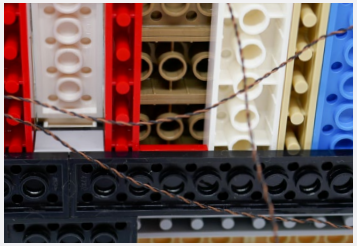
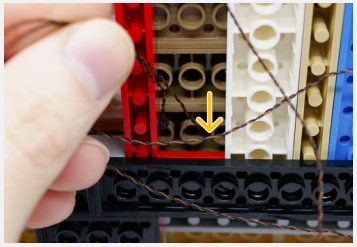
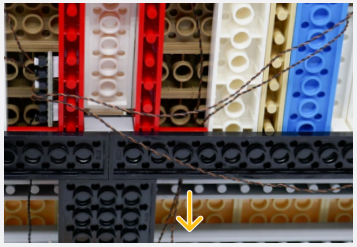
Connect the Orange Bit Light and Orange Large Bit Light to the 6-Port Expansion Board coming from the "OUT" port of the Flicker Effects Board





2x Adhesive Square

Legend → DISCONNECT → CONNECT / RECONNECT ↻ TURN / FLIP → DIRECTIONAL ⤢ TWIST / BRAID ✳ POWER ON TEST ✎ NOTE ICON

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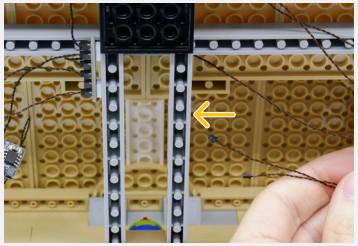
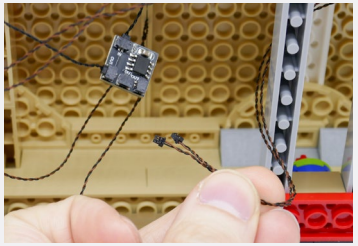
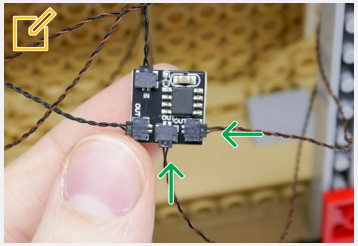
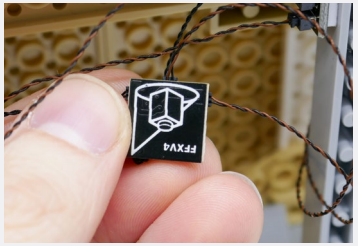
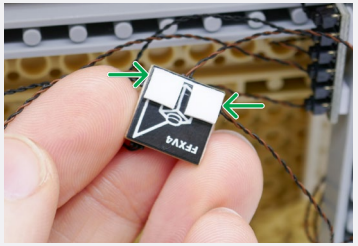
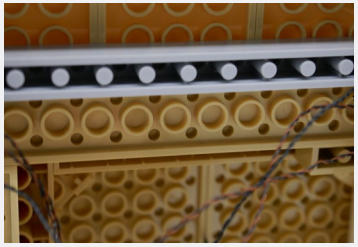
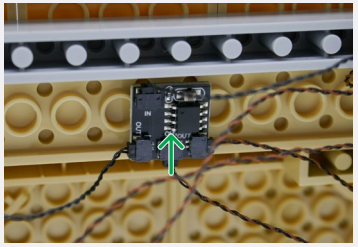
Take the remaining Orange Bit Light and Orange Large Bit Light from the right side and thread them as shown

Plug in the two cables to both of the “OUT” ports on the Flicker Effects Board

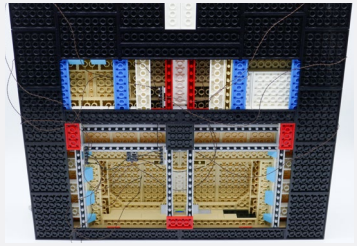
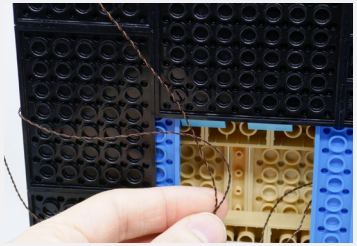
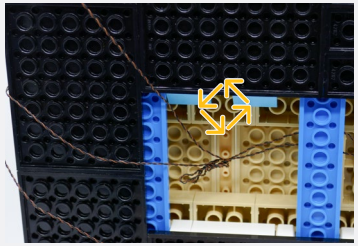
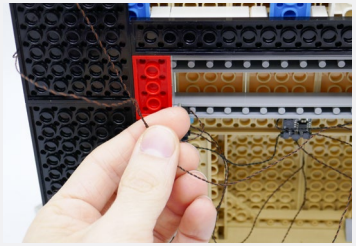
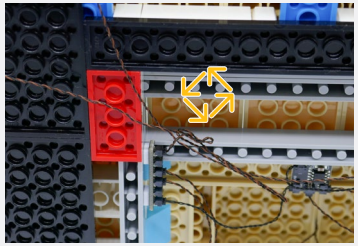
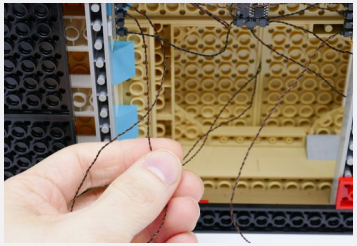
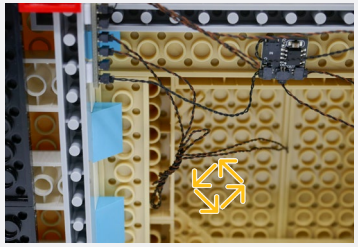
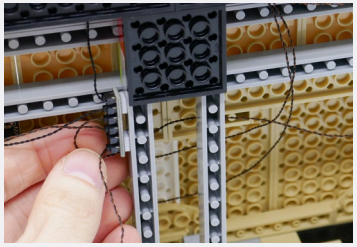



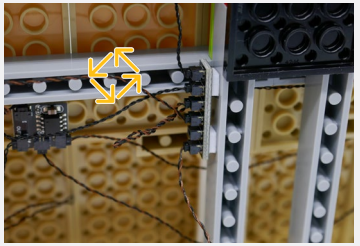
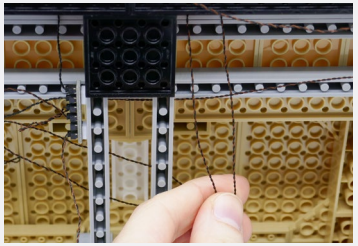
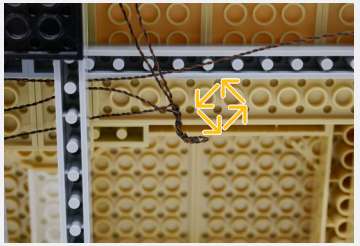
2x Adhesive Square

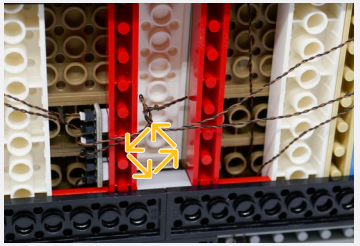
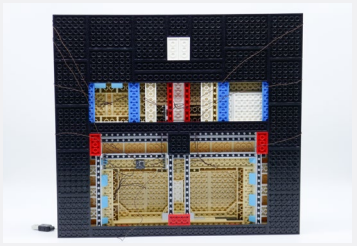




Legend → DISCONNECT → CONNECT / RECONNECT ↻ TURN / FLIP → DIRECTIONAL ⤢ TWIST / BRAID ✳ POWER ON TEST ✎ NOTE ICON

27

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

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.

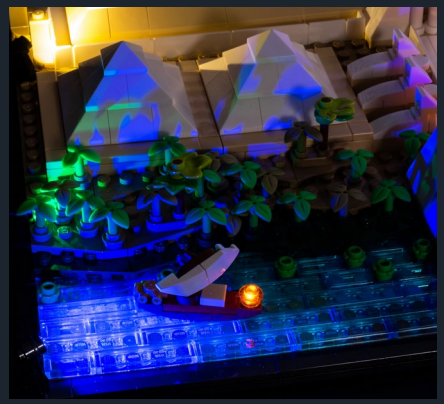
You should have these parts left over that were removed from the LEGO set

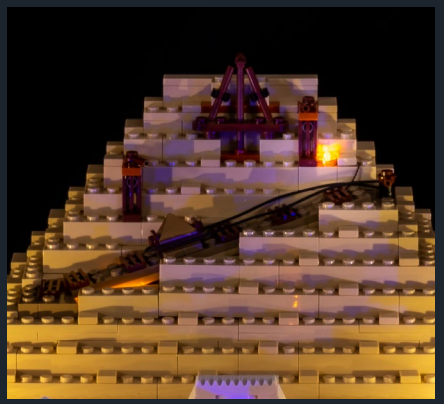
Legend → DISCONNECT → CONNECT / RECONNECT TURN / FLIP → DIRECTIONAL TWIST / BRAID POWER ON TEST NOTE ICON

FINAL PRODUCT

This finally completes installation of the Light My Bricks

LEGO Great Pyramid of Giza 21058 Light Kit.





TROUBLESHOOTING

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

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

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

Troubleshooting

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

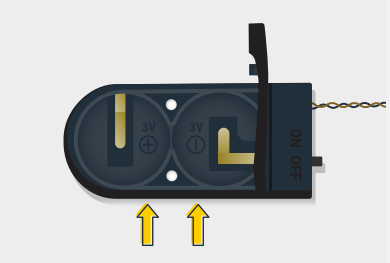
If the batteries have no power, replace the batteries.

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

Check For 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.

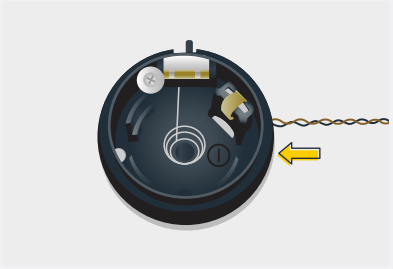
On the opposite side, the “-” side of the battery pack should have the battery flipped upside down, that is the “+” symbol facing upwards



Troubleshooting

Check For Cr2032 Batteries Using The Round Battery Pack

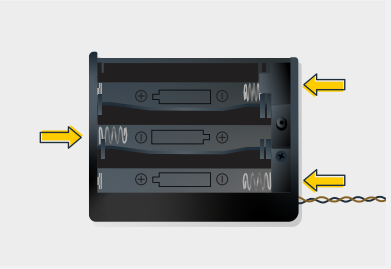
Inside the battery pack is a symbol indicating which side the (round) CR2032 battery should be inserted. In this case, for the stacked battery pack, ensure that BOTH batteries have the “+” symbol facing upwards.

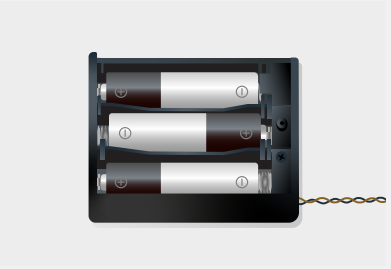


Check for AA batteries using the AA battery pack

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

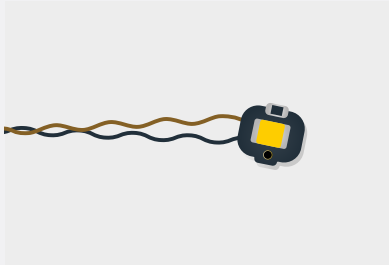
Check Your Wires

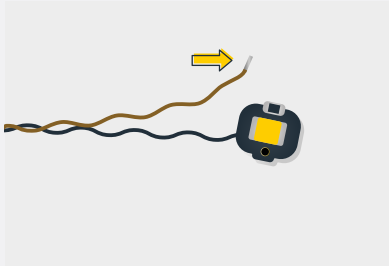
In order for Light My Bricks components to fit in between and underneath LEGO® bricks, the components need to be very small. Due to this nature, Light My Bricks components can be easily damaged when not handled correctly.

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.





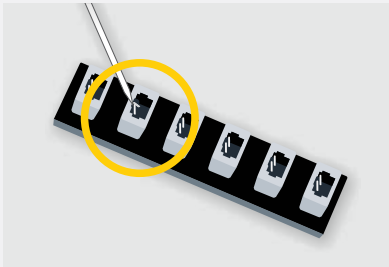
Troubleshooting

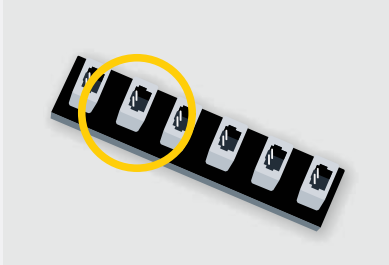
Check Your Expansion Board Ports/ Strip Light Ports / Effects Board Ports

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.

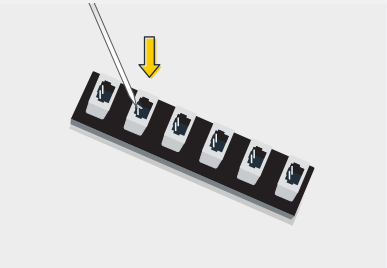


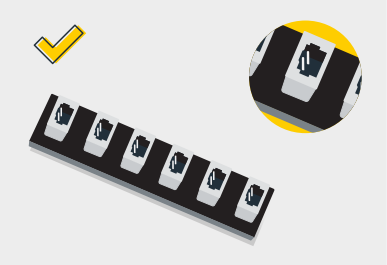


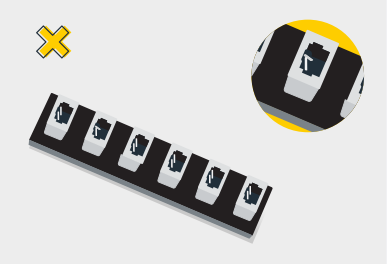
A short circuit can also result in overheating of the board, cable or batteries. If you suspect a short circuit, DISCONNECT POWER IMMEDIATELY Batteries can fail, catch fire, or even explode if left connected to a short circuit for too long.

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

support.lightmybricks.com

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

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