



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



**LEGO<sup>®</sup> PAC-MAN ARCADE #10323  
LIGHT KIT  
INSTALLATION GUIDE**

# Light My Bricks



## LEGO® PAC-MAN ARCADE 10323 INSTALLATION GUIDE

Hi There!

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

PAC-MAN Arcade 10323 Light Kit.

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

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

Have fun and enjoy!

INSTALLATION GUIDE





# PACKAGE CONTENTS:

## Individual Bags



- 4x White 30cm Bit Light
- 3x Cool White 30cm Bit Light
- 3x Cool White 30cm Large Bit Light
- 1x Red 30cm Large Bit Light
- 1x Red to Blue 15cm Bit Light
- 3x Warm White Strip Light

## Mixed Components 1



- 1x 2-Port Expansion Board
- 2x 6-Port Expansion Board
- 1x 8-Port Expansion Board
- 1x Blink Effects Board
- 9x Adhesive Square

## USB Power Cable



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

## Connecting Cables



- 4x 5cm Connecting Cable
- 3x 15cm Connecting Cable

## Mixed Components 2



- 2x Technic, Pin 1/2 without Friction Ridges - Light Bluish Gray
- 3x Plate, Round 1x1 - White
- 8x Plate, Round 1x1 with Open Stud - Black
- 3x Arm Skeleton, Bent with Clips (Horizontal Grip) - Black
- 5x Tile, Modified 1x1 with Open O Clip - Black

## Mixed Components 3



- 4x Plate, Modified 1x2 with 1 Stud with Groove and Bottom Stud Holder (Jumper) - Black
- 4x Plate 1x2 - Black
- 9x Plate, Round 1x1 with Bar Handle - Black
- 2x Plate, Modified 1x2 with Bar Handle on End - Black

## Mixed Components 4

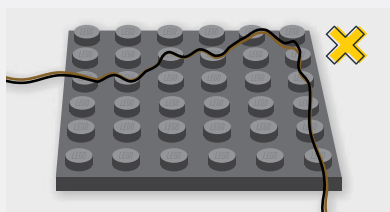
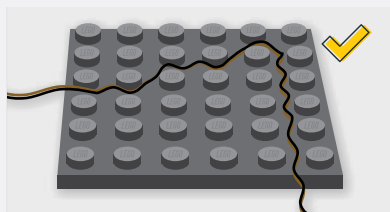


- 4x Plate 1x6 - Black

## Contents

Before You Begin	5
Blueprint	10
Instructions	11
Final Product	43
Troubleshooting	44
Contact	48

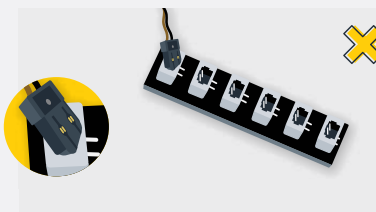
## Before You Begin



### Laying cables in between and underneath bricks

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

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



### Connecting Cable Connectors To Expansion Boards

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

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

## Before You Begin



### Connecting Cable Connectors To Strip Lights

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



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

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

## Before You Begin

### Installing Bit Lights Under Lego® Bricks And Plates

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



## Before You Begin

### The Symbols Used In This Guide

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

#### Light Kit Component

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

White 30cm Bit Light



#### Connect

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



#### Disconnect

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



#### Directional

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



#### Bend/Pivot

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



#### Turn/ Flip

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



#### Twist/ Braid

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



#### Power On Test

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



#### Note

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





# Before You Begin

## Repeat Step

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

x2

## Connect Focus

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



## Disconnect Focus

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



## General Focus

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



## General Note


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

## Connect Note

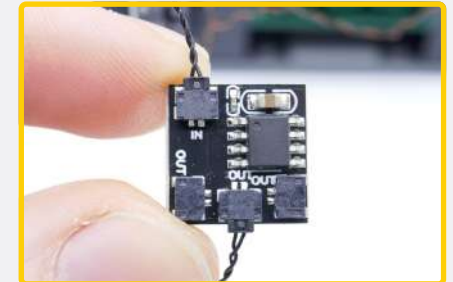
The green coloured note is used when the topic focuses on a component being connected, like the shown Power Bank.


## Disconnect Note

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


**NOTE**


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




**NOTE**

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




**NOTE**

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







## INSTRUCTIONS

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



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



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

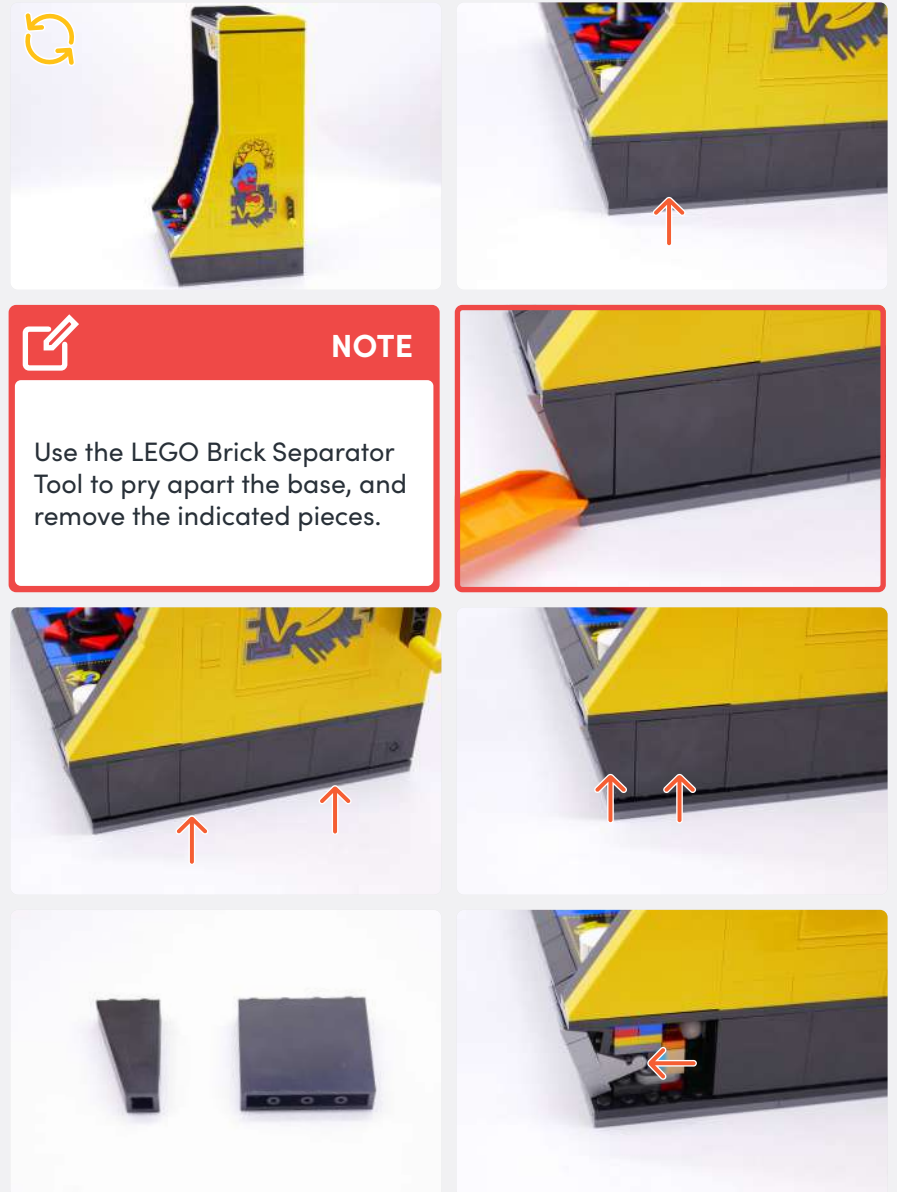


Se si verificano problemi con il set Light My Bricks, guardare il nostro video per la risoluzione dei problemi o leggere l'elenco delle cause più comuni per la risoluzione dei problemi qui.

1



2

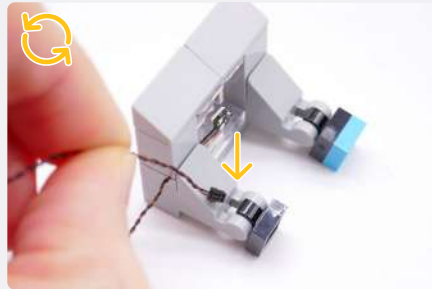
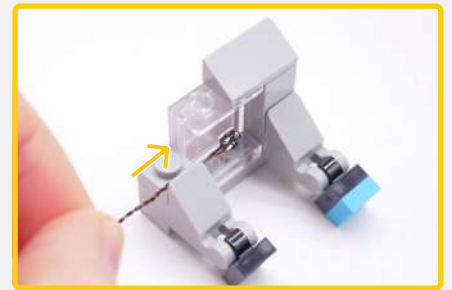


**NOTE**  
Use the LEGO Brick Separator Tool to pry apart the base, and remove the indicated pieces.



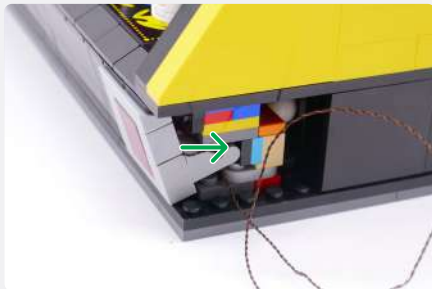
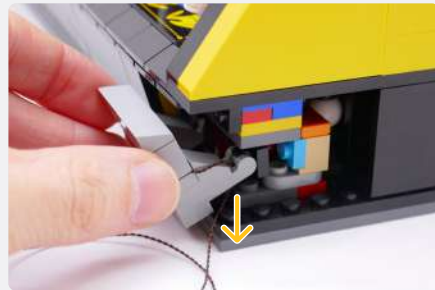
**NOTE**

Ensure the Large Bit Light LED is facing towards the front out of the clear LEGO piece.



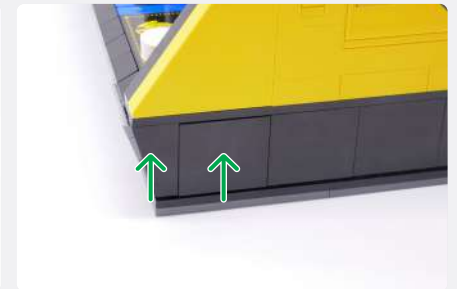
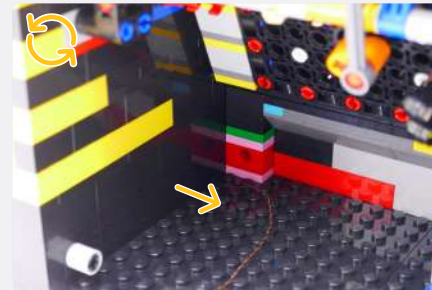
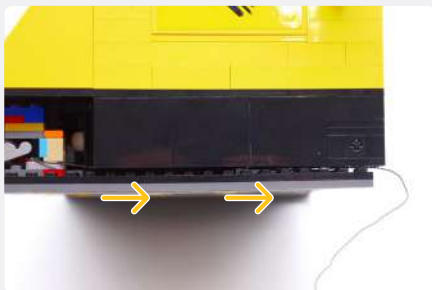
3

4

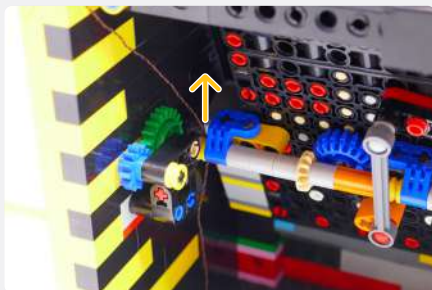
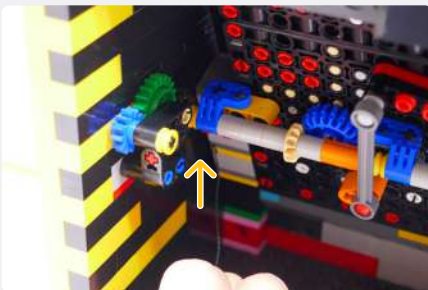
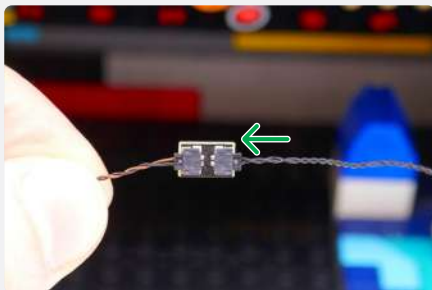
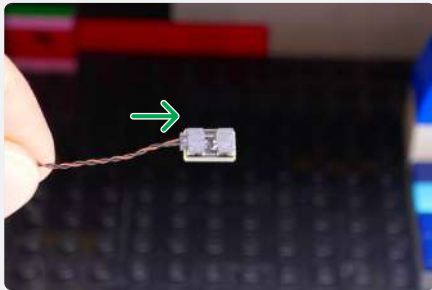
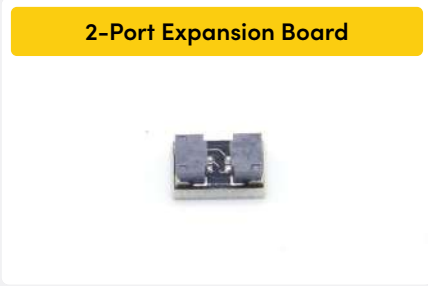


**NOTE**

Run the cable across and between the base pieces and inside the back area.

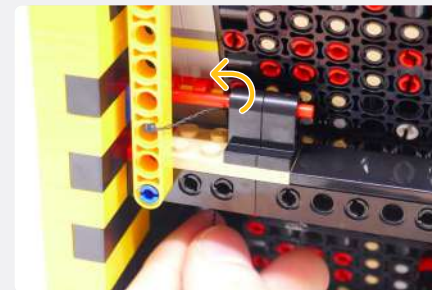
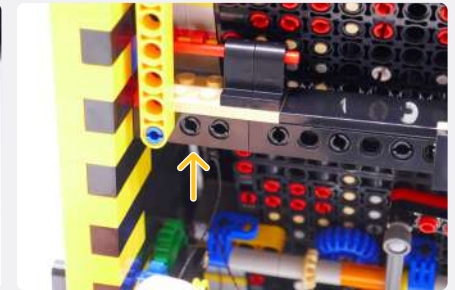
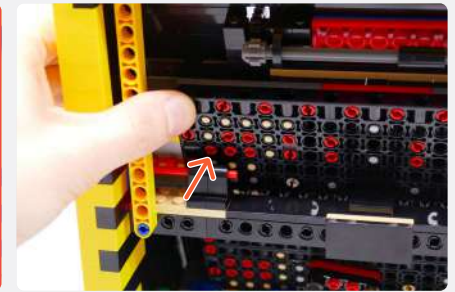
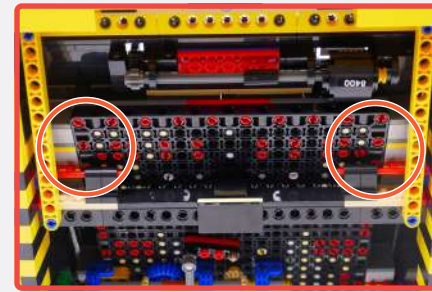


5



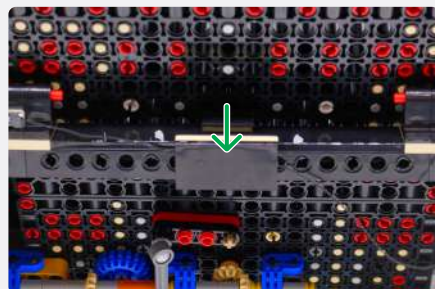
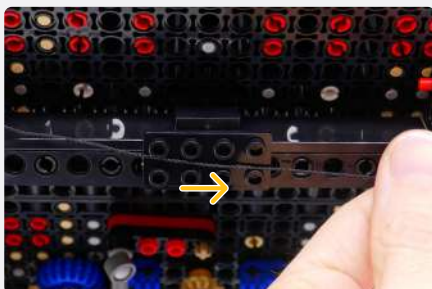
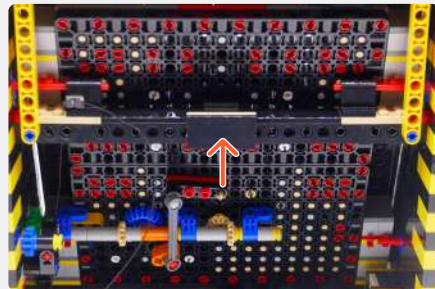
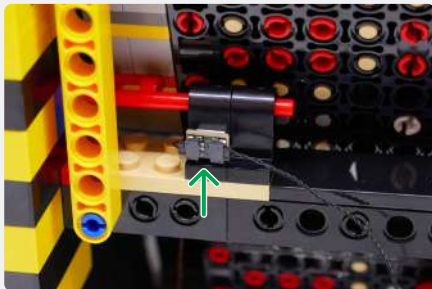
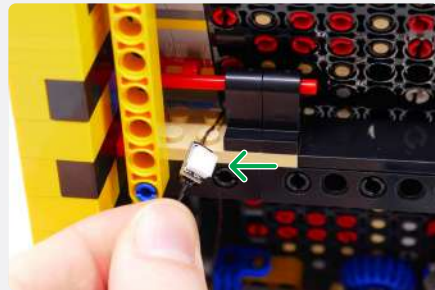
**NOTE**

Press from the circled areas to unclip the red LEGO clips. Only unclip them, do not remove any pieces.



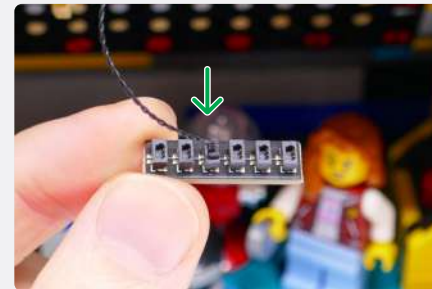
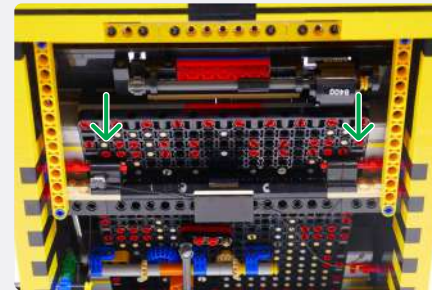
**6**

**Adhesive Square**



**7**

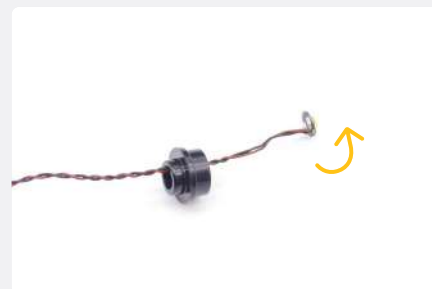
**Plate, Round 1x1 with Open Stud - Black**



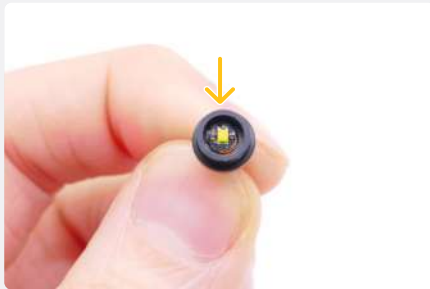
**6-Port Expansion Board**



**White 30cm Bit Light**







Plate, Round 1x1 with Bar Handle - Black



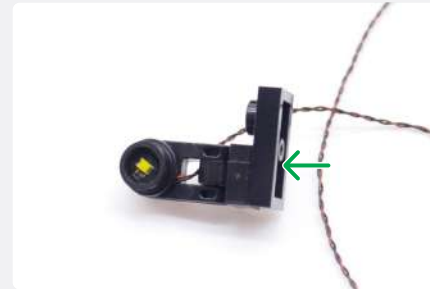
Tile, Modified 1x1 with Open O Clip - Black



Plate 1x2 - Black



8



Plate, Round 1x1 with Open Stud - Black



Red to Blue 15cm Bit Light



Plate, Round 1x1 with Bar Handle - Black





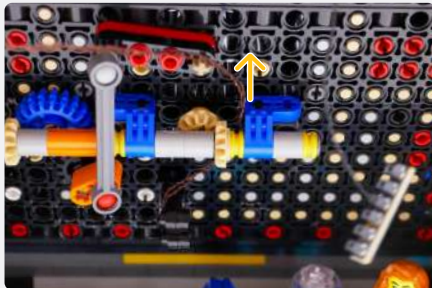
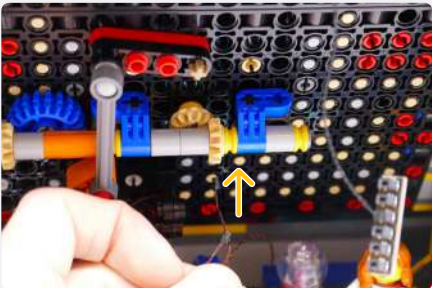
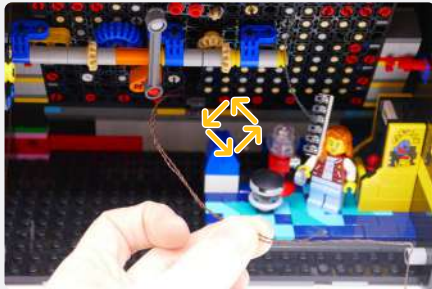
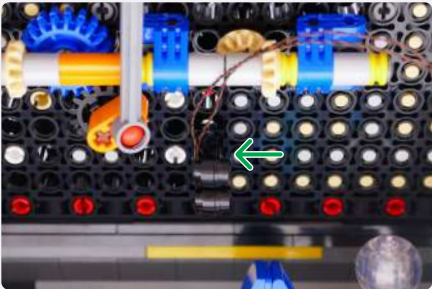
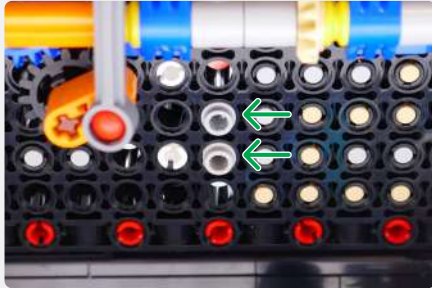
Tile, Modified 1x1 with Open O Clip - Black

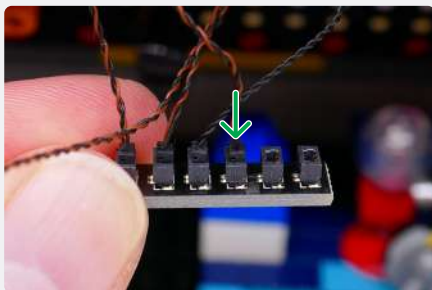
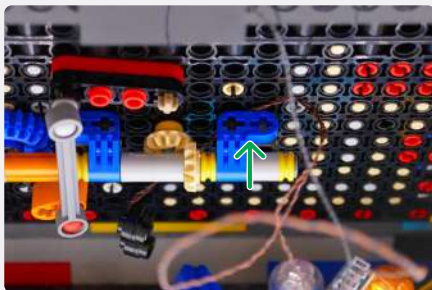
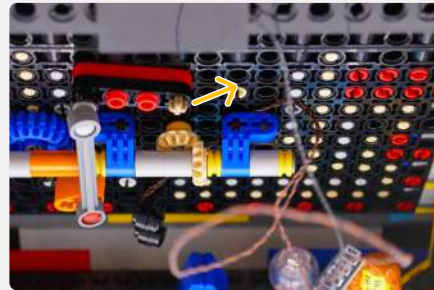
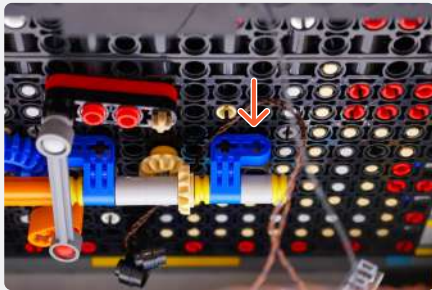
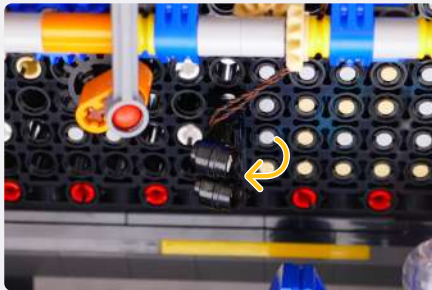


9



2x Technic, Pin 1/2 without Friction Ridges - Light Bluish Gray





USB Power Cable



10



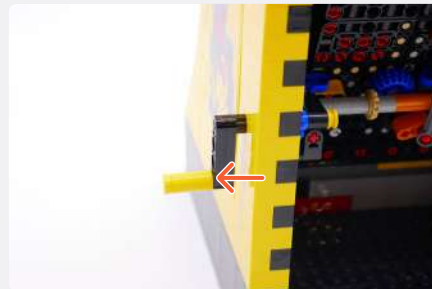
**NOTE**

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



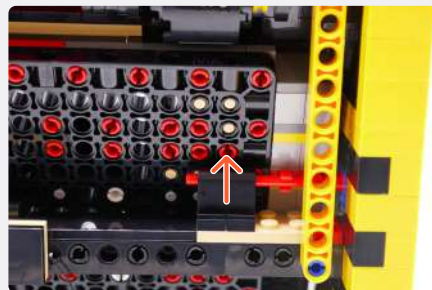
**!** If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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

11

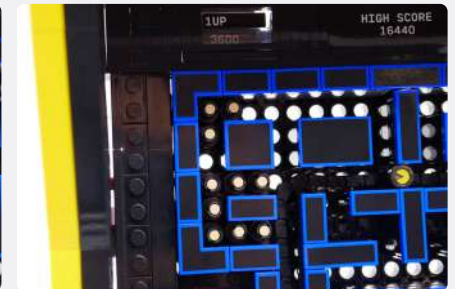
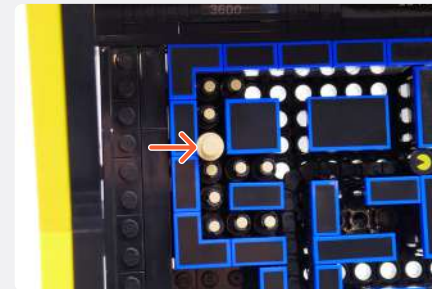
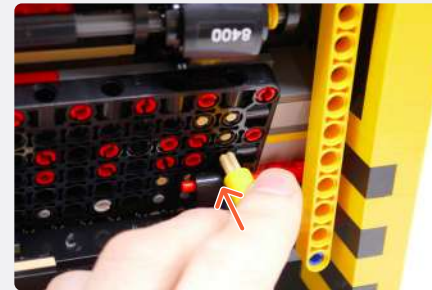


**NOTE**

Use the piece removed to push out the technic pins in the following steps.



12



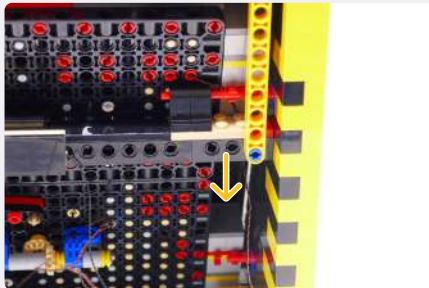
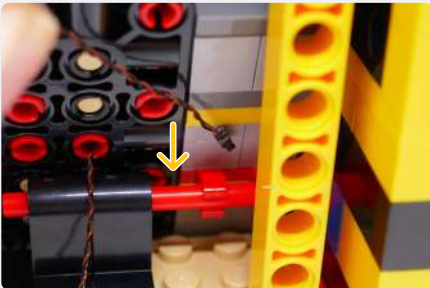
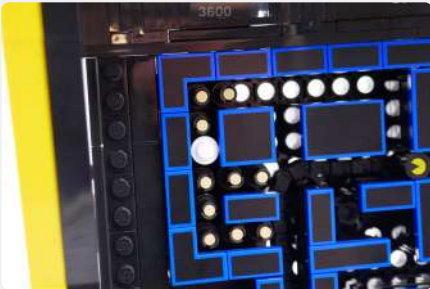
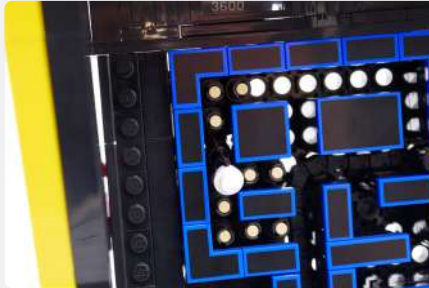
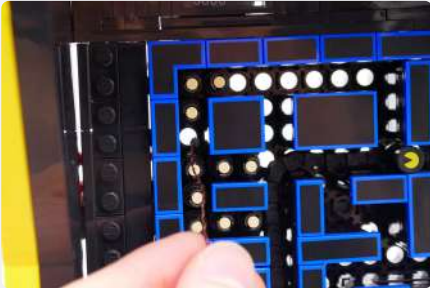
Cool White 30cm Bit Light



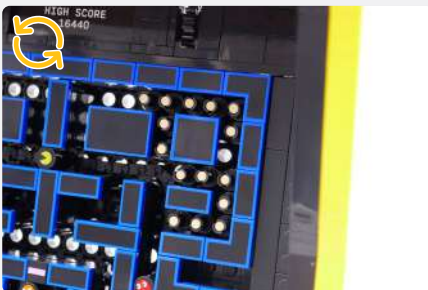
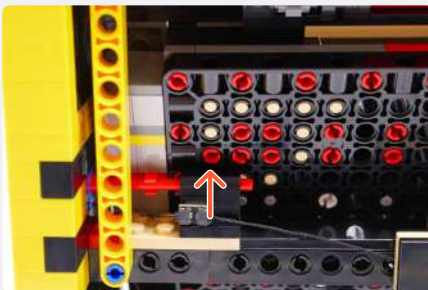
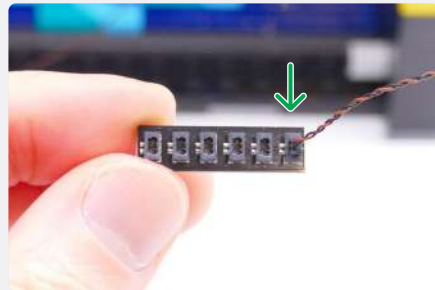
Plate, Round 1x1 - White



**13**



6-Port Expansion Board



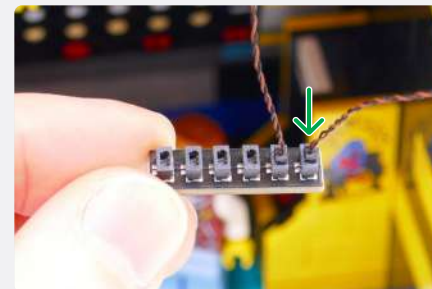
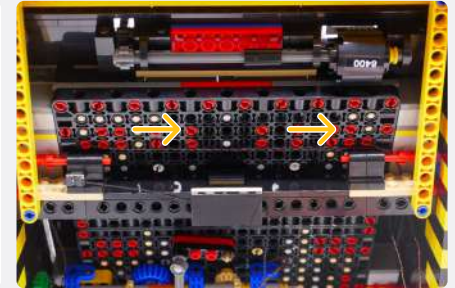
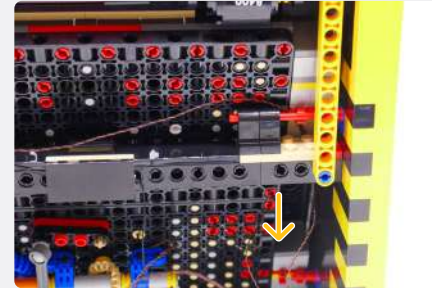
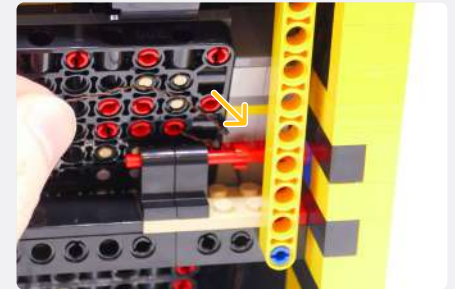
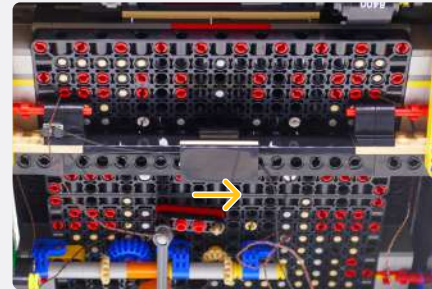
Cool White 30cm Bit Light



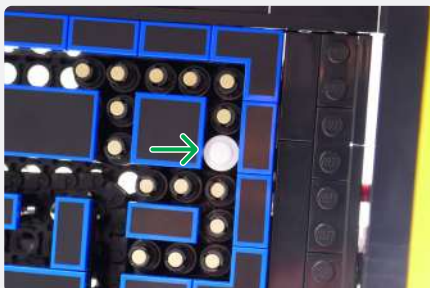
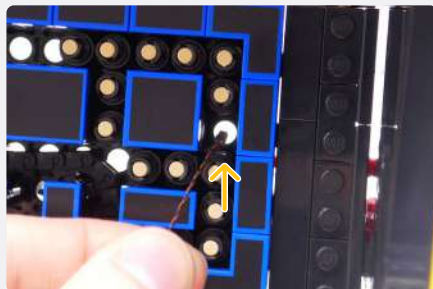
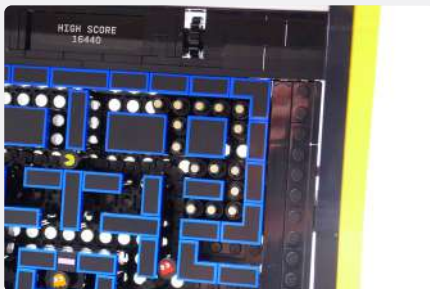
Plate, Round 1x1 - White



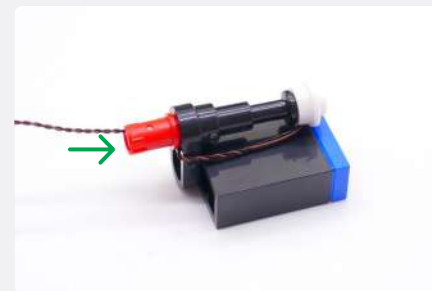
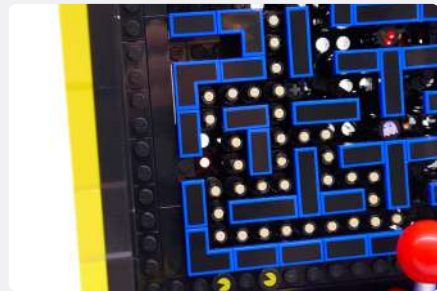
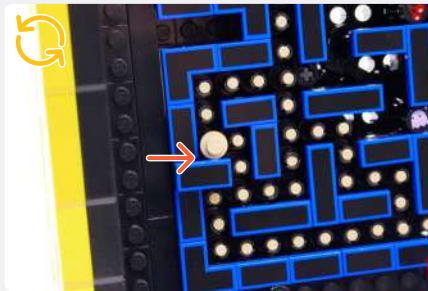
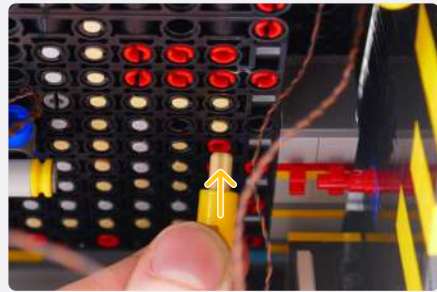
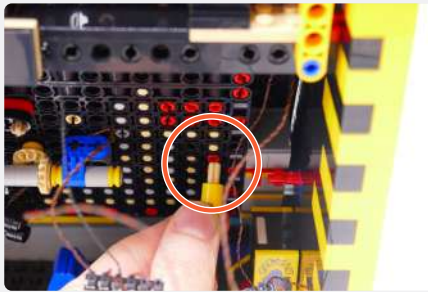
14



15

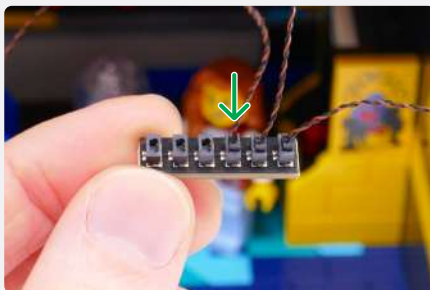
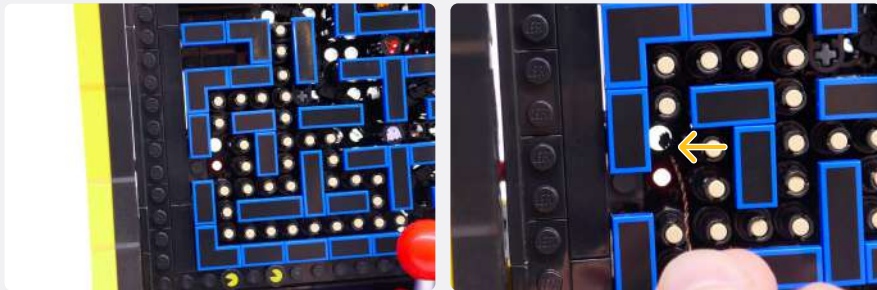


16

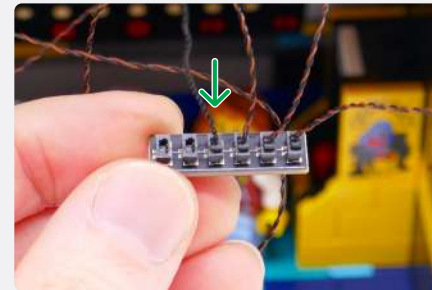




17



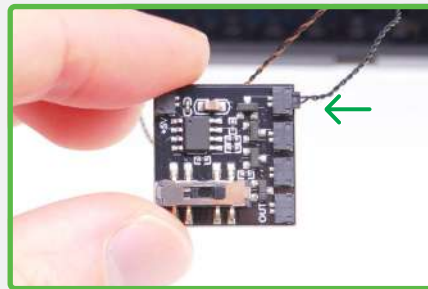
5cm Connecting Cable



Blink Effects Board


**NOTE**

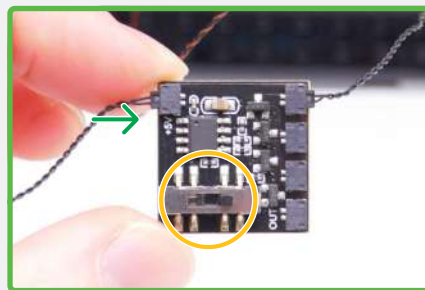
Connect the 5cm Connecting Cable into the "OUT" port of the Blink Effects Board.



5cm Connecting Cable


**NOTE**

Connect a new 5cm Connecting Cable into the "+5V" port of the Blink Effects Board.

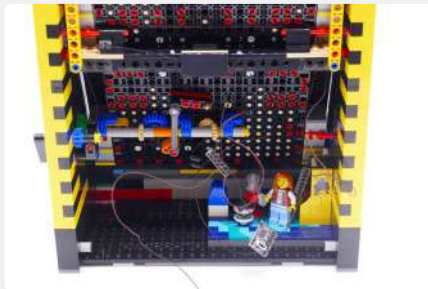
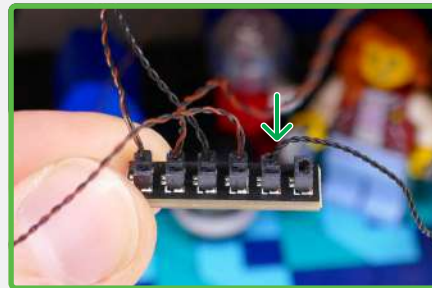

**NOTE**

Ensure the switch is in the indicated position. This is the slowest flashing speed.

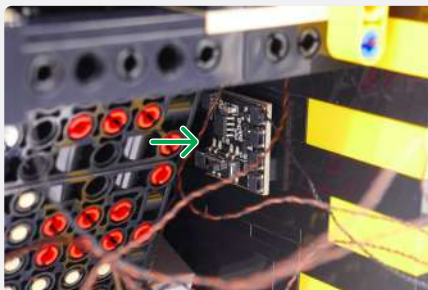
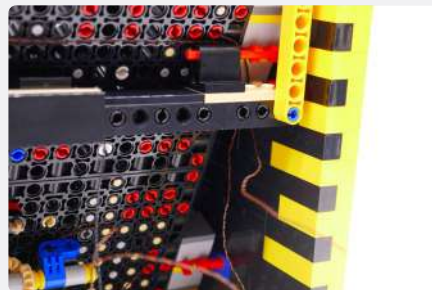
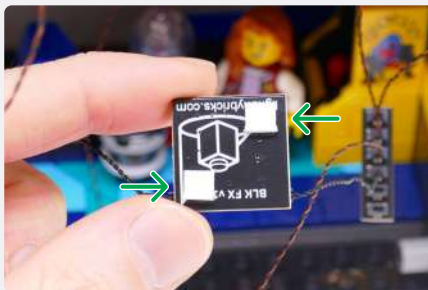
18

**NOTE**

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



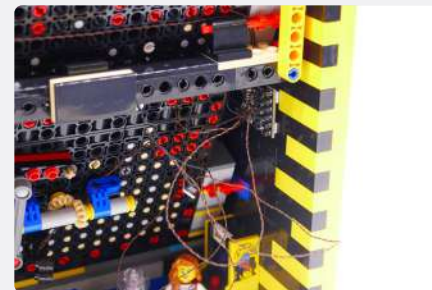
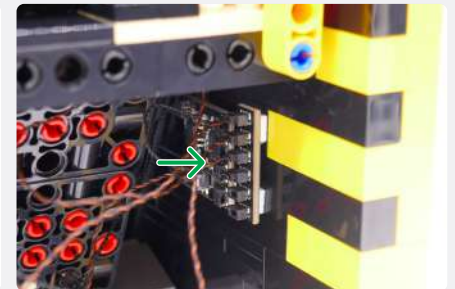
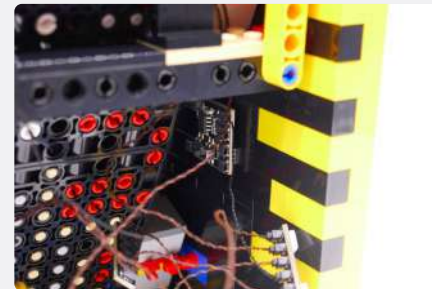
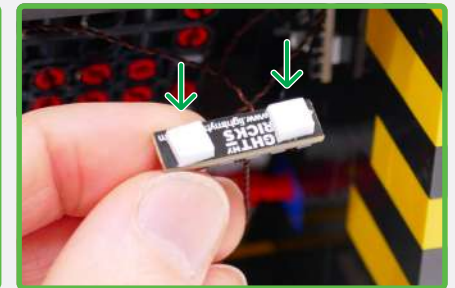
**2x Adhesive Square**



**2x Adhesive Square**

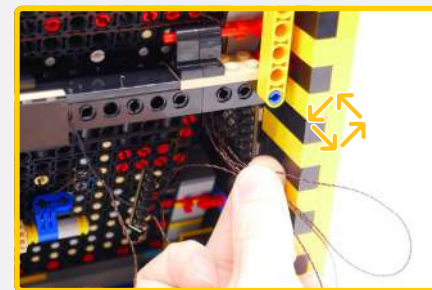
**NOTE**

Stick the Adhesive Squares on the 6-Port Expansion Board from Step 13. (without the USB Power Cable connected)

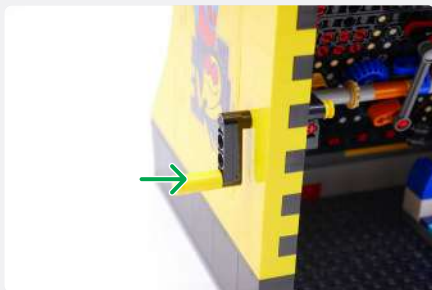
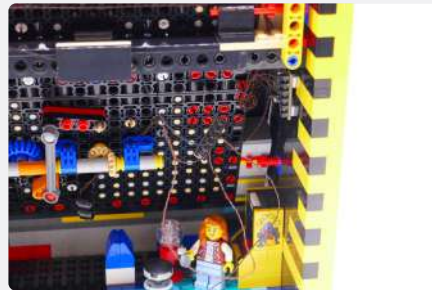
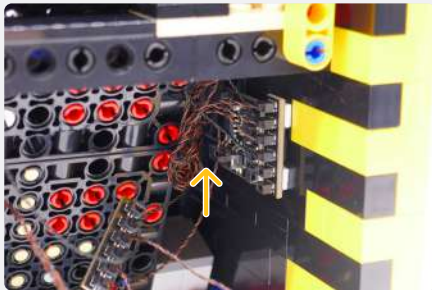


**NOTE**

Twist the cables connected to the 6-Port Expansion Board from Step 13 only.

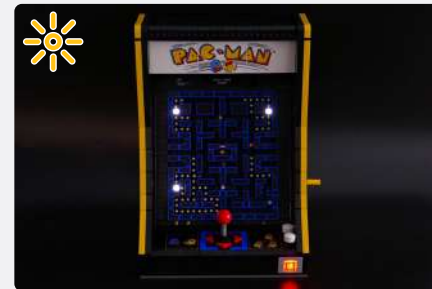


19



**NOTE**

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



**NOTE**

Ensure the 3x Cool White Bit Lights are flashing.



**NOTE**

If you wish to set the lights to NOT blink, remove the Blink Effects Board and connect the two 6-Port Expansion Boards with a 5cm Connecting Cable.

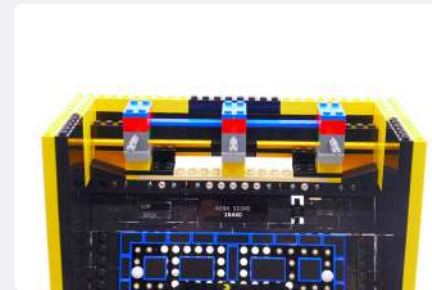


If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing expansion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

20



21



Plate, Round 1x1 with Open Stud - Black

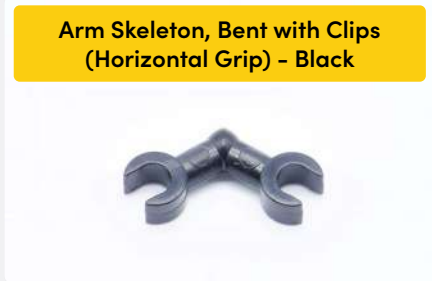


Cool White 30cm Large Bit Light



Plate, Round 1x1 with Bar Handle - Black

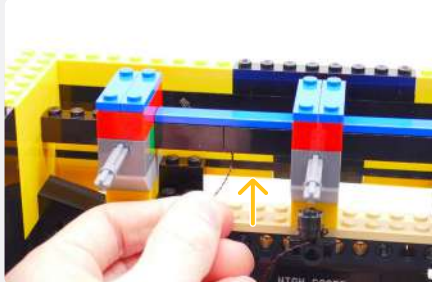
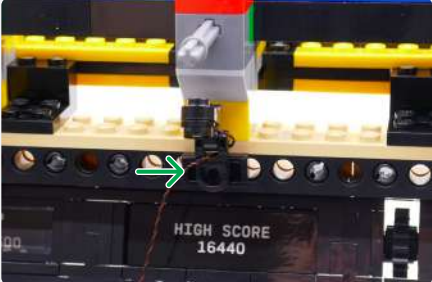




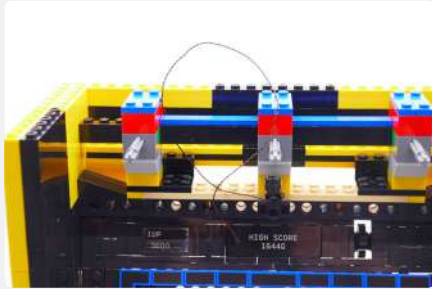
**NOTE**

Connect either the Jumper Plate or the removed Round Plate from Step 16 to the assembly as shown.

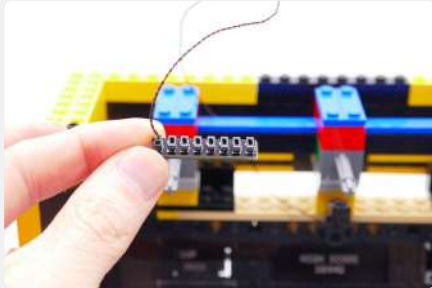
**22**



23



8-Port Expansion Board



Plate, Round 1x1 with Open Stud - Black



Warm White 30cm Large Bit Light



Plate, Round 1x1 with Bar Handle - Black



Arm Skeleton, Bent with Clips (Horizontal Grip) - Black

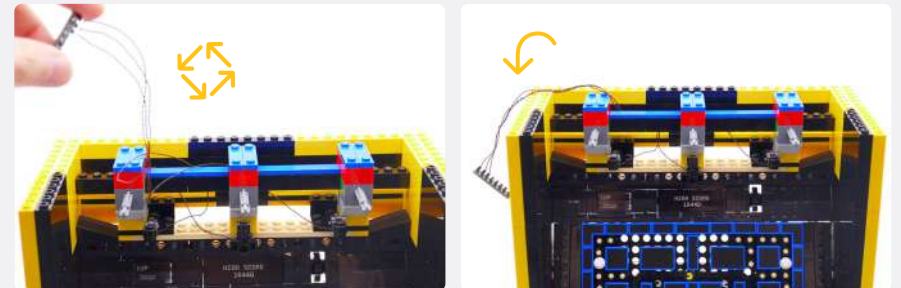
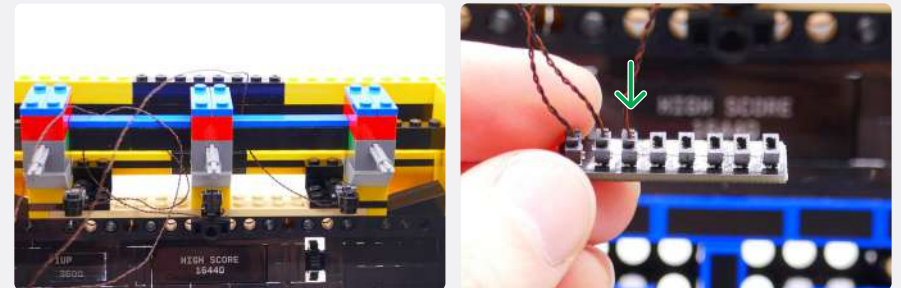
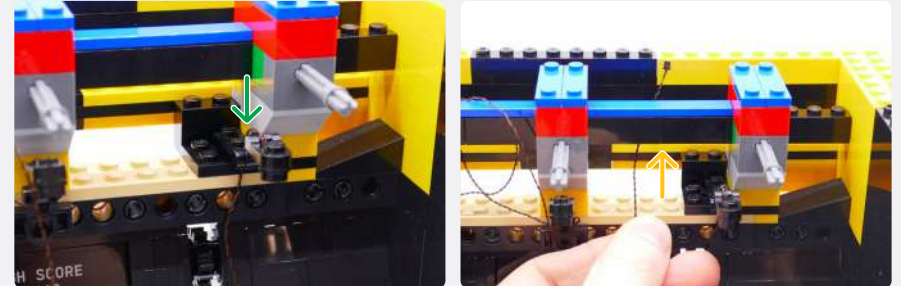
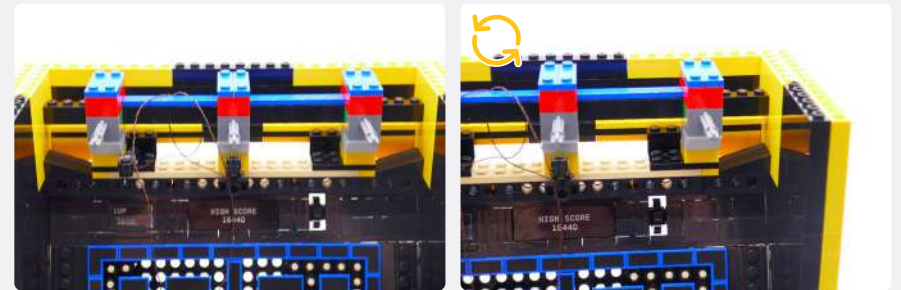


Plate, Modified 1x2 with Bar Handle on End - Black





24





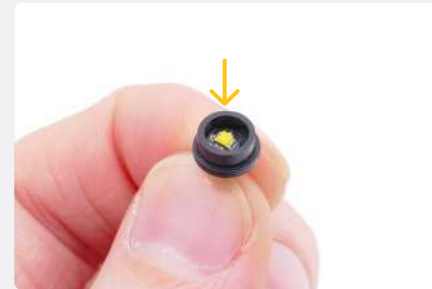
**NOTE**

Ensure the spotlights are angled in the same positions, facing parallel to the game screen.



**Plate, Round 1x1 with Open Stud - Black**

**White 30cm Bit Light**



**Plate, Round 1x1 with Bar Handle - Black**



**Tile, Modified 1x1 with Open O Clip - Black**



**Plate, Modified 1x2 with 1 Stud with Groove and Bottom Stud Holder (Jumper) - Black**



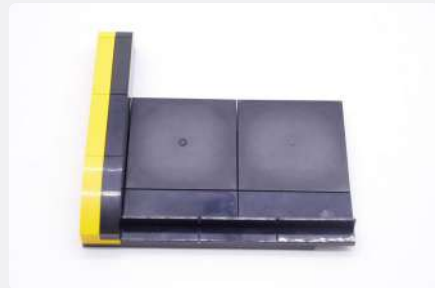
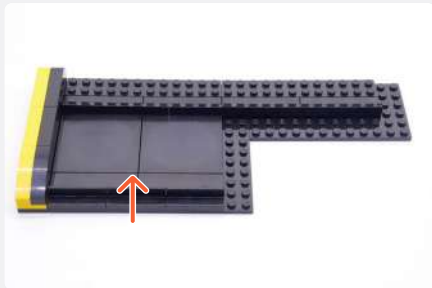
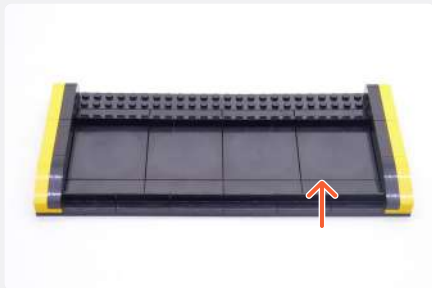
**Plate 1x2 - Black**

25



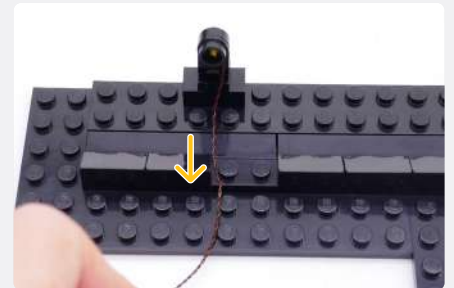
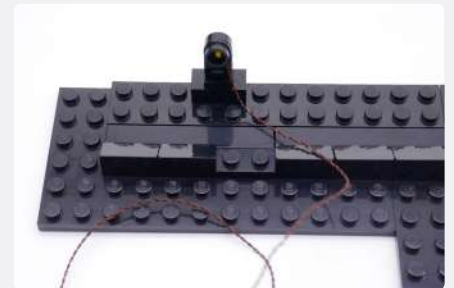
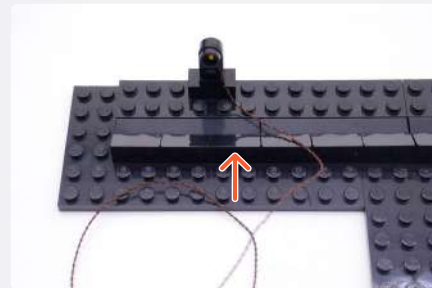
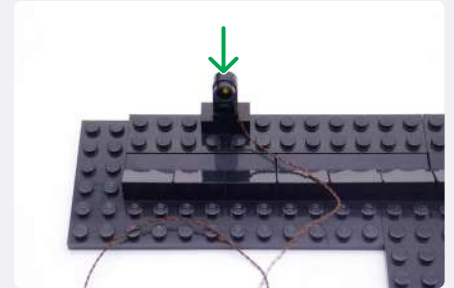


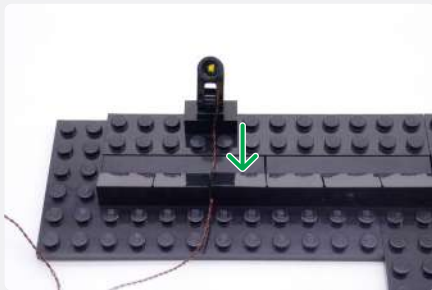
x3



26

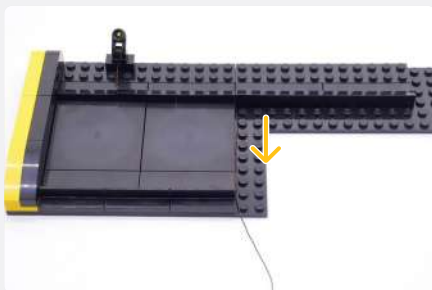
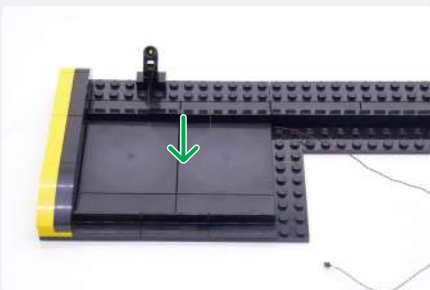
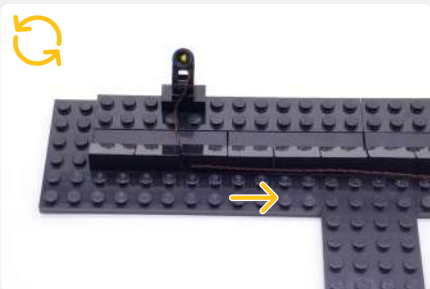
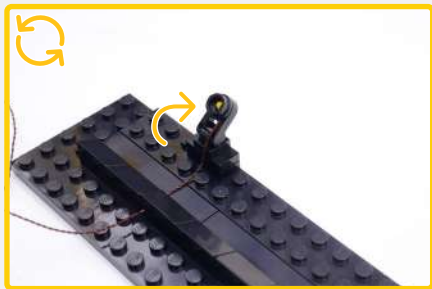
27



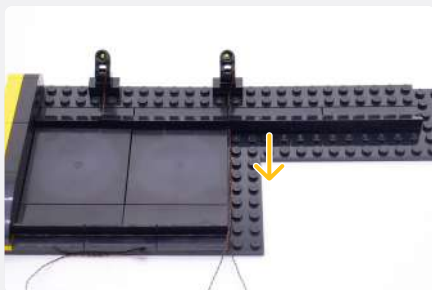
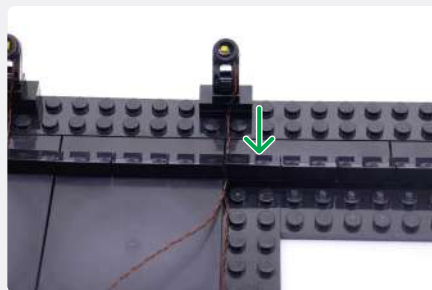
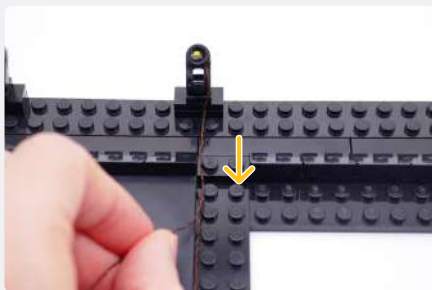
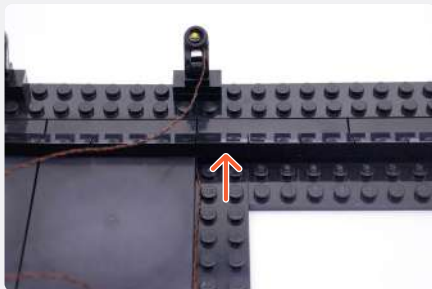
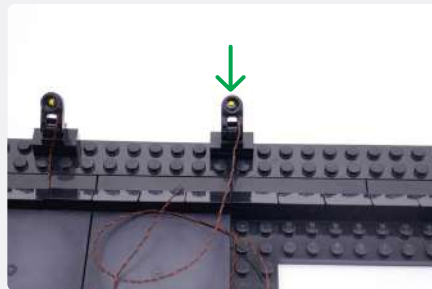


**NOTE**

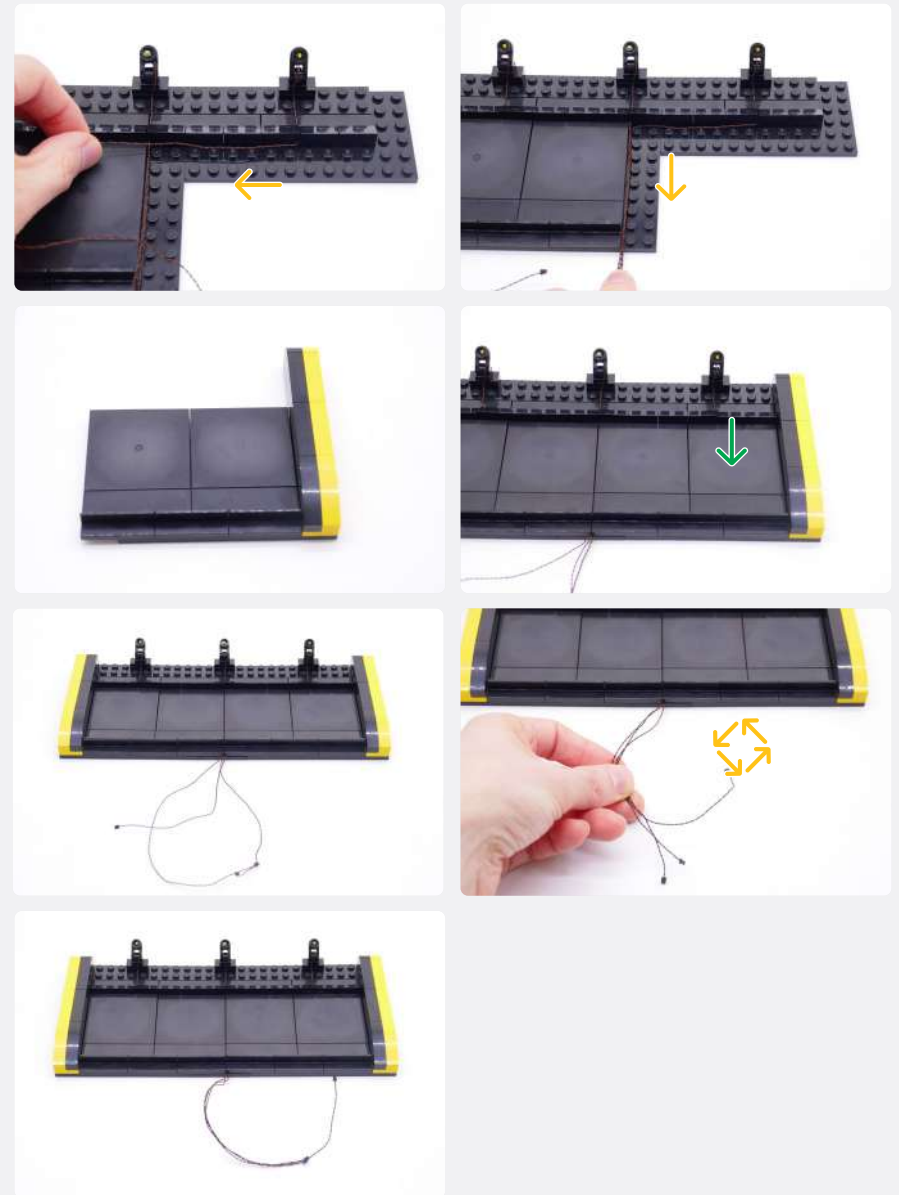
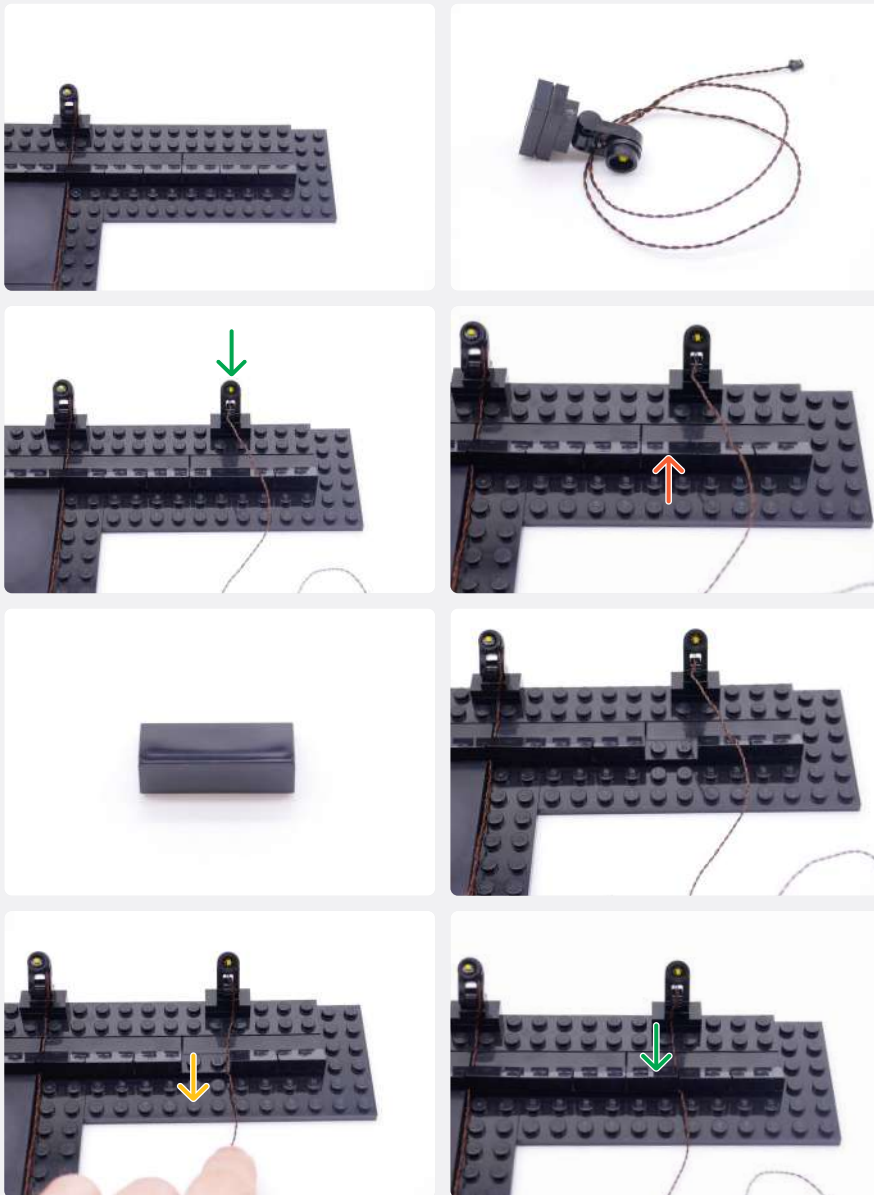
Angle the spotlight, and the following ones, like shown. Ensure the cable is flat along the black plate.



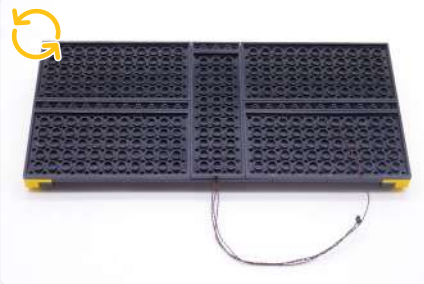
**28**



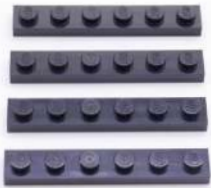
29



30



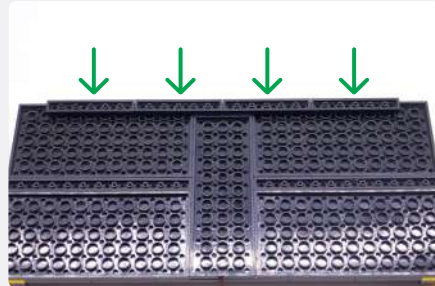
4x Plate 1x6 - Black



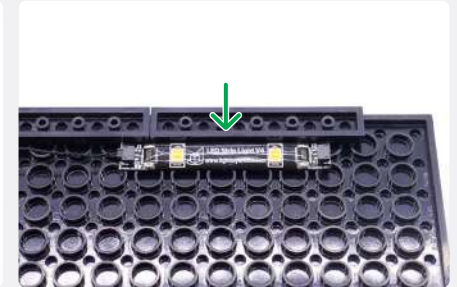
Warm White Strip Light



5cm Connecting Cable



31



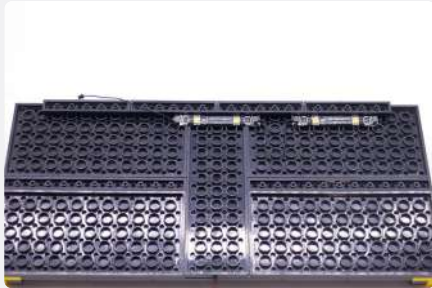
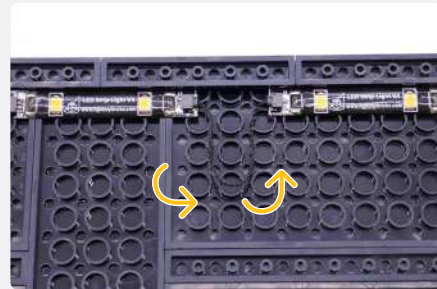
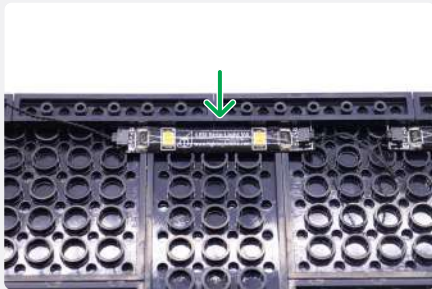
Warm White Strip Light



5cm Connecting Cable



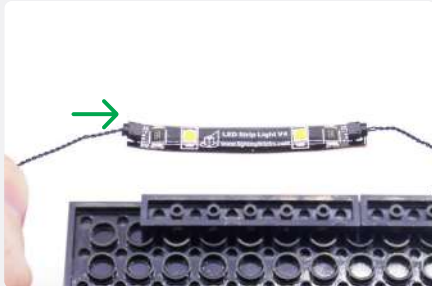
32



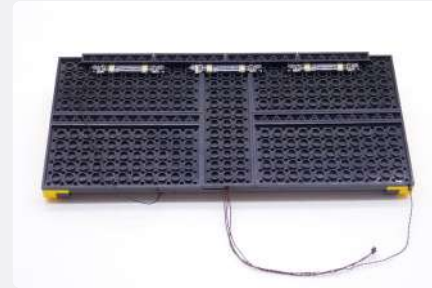
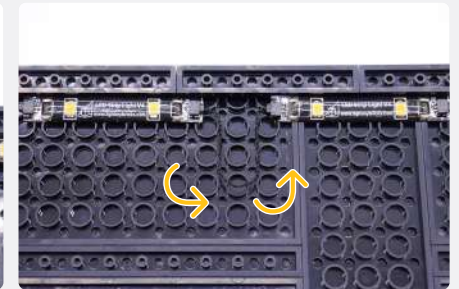
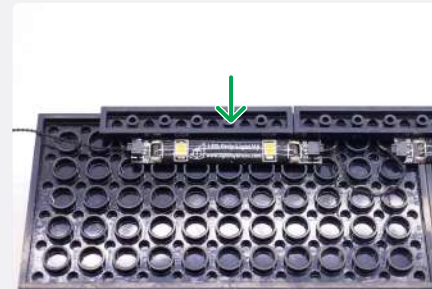
Warm White Strip Light



15cm Connecting Cable

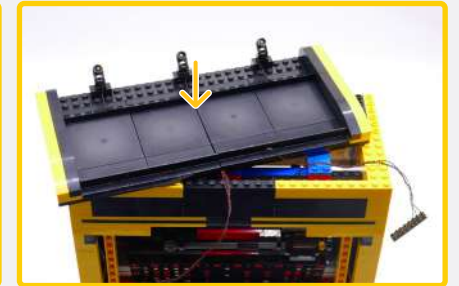


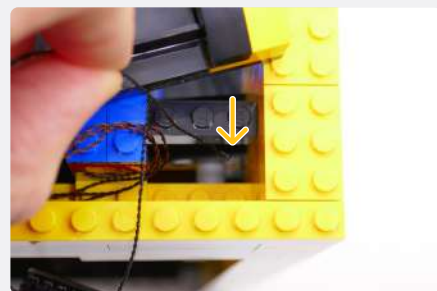
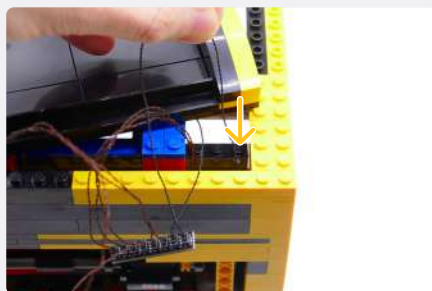
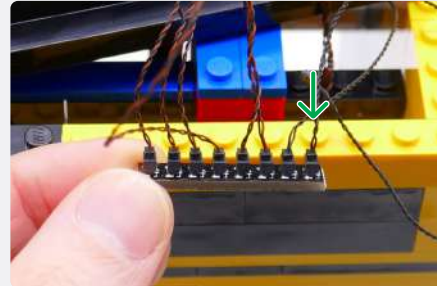
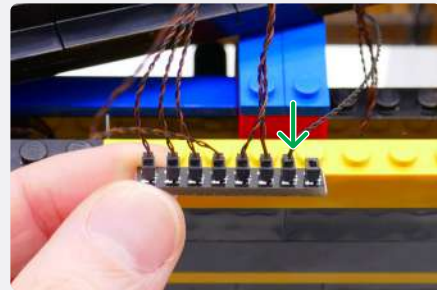
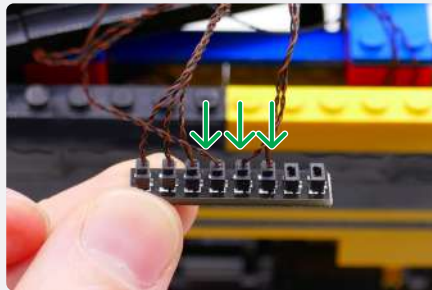
33



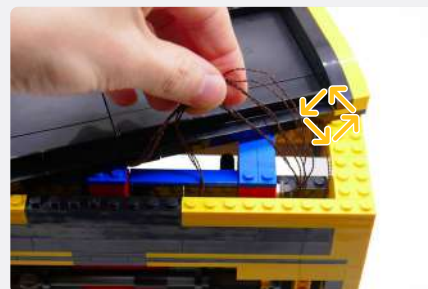
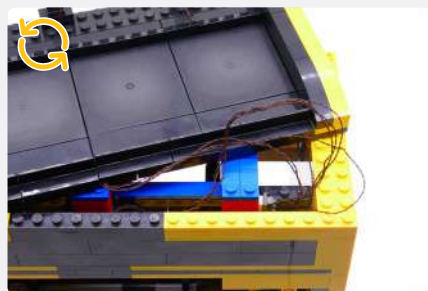
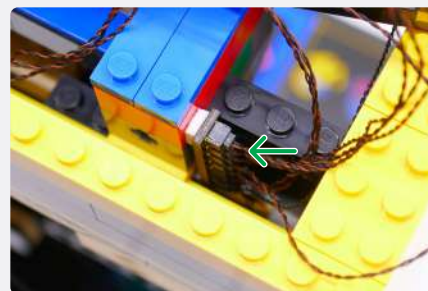
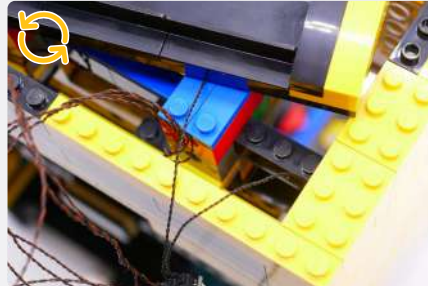
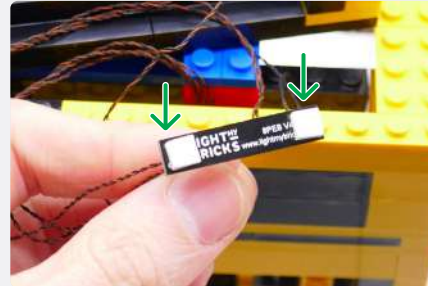
**NOTE**

Place the section you just completed on top of the machine, then connect the cables.

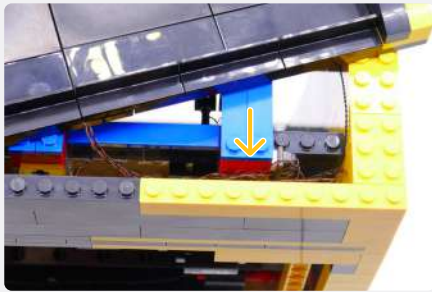




**34**

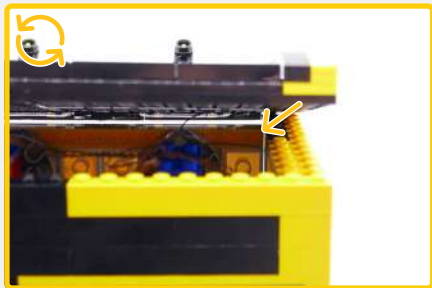


35



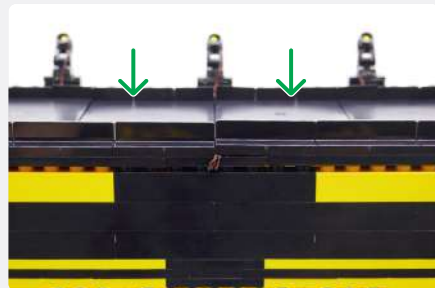
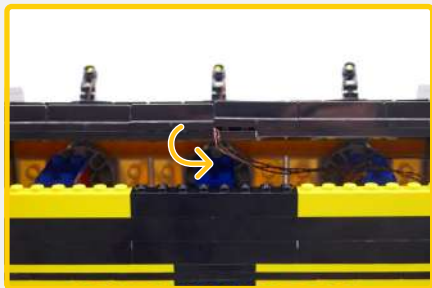
NOTE

Ensure the cables don't get stuck in between the studs when placing down.

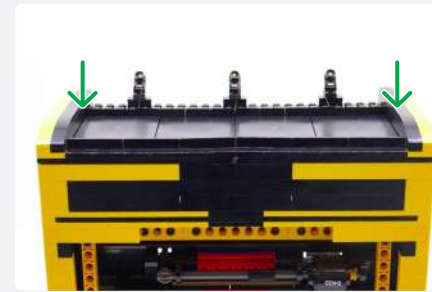


NOTE

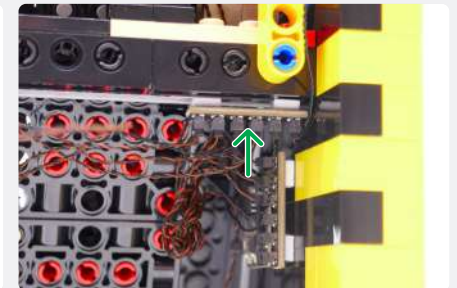
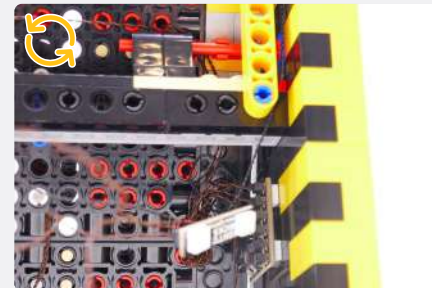
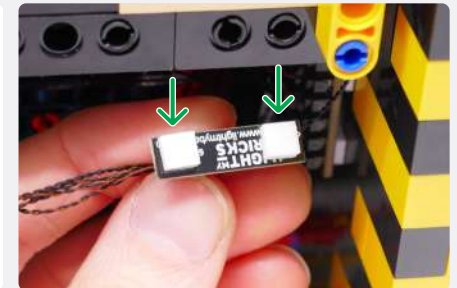
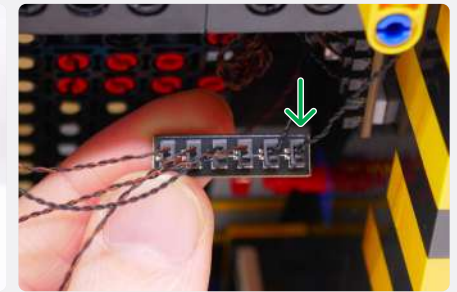
Tuck the cables coming out from the back under and inside the roof plate.

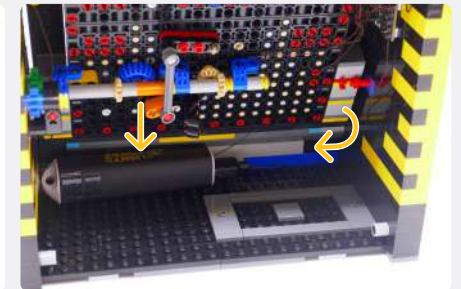
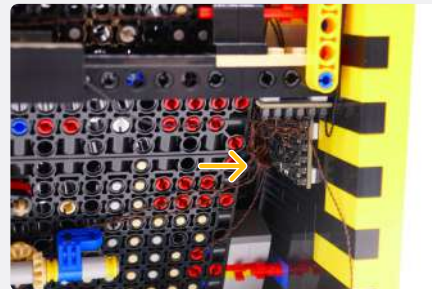
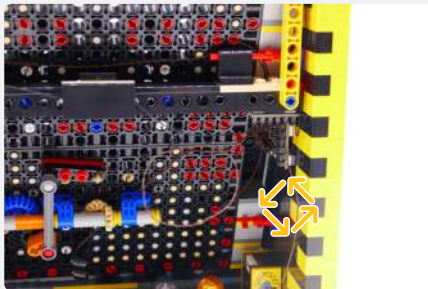
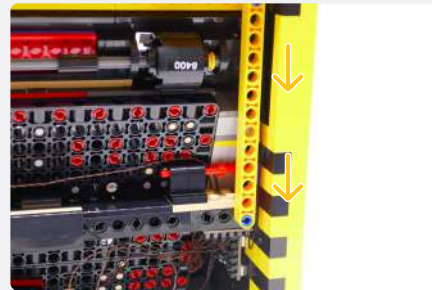


36



2x Adhesive Square



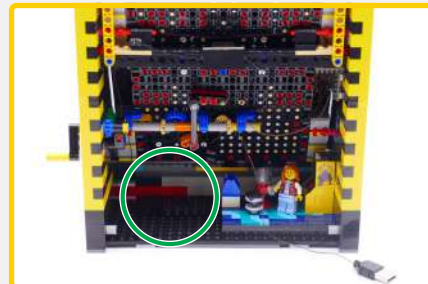


37



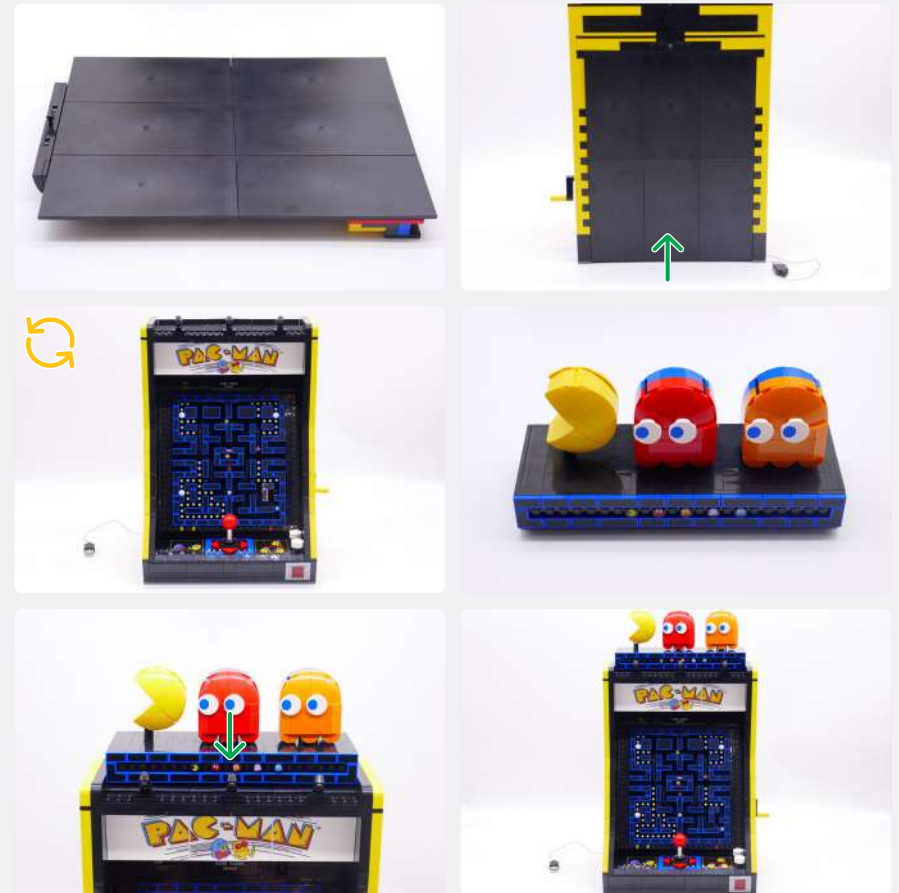
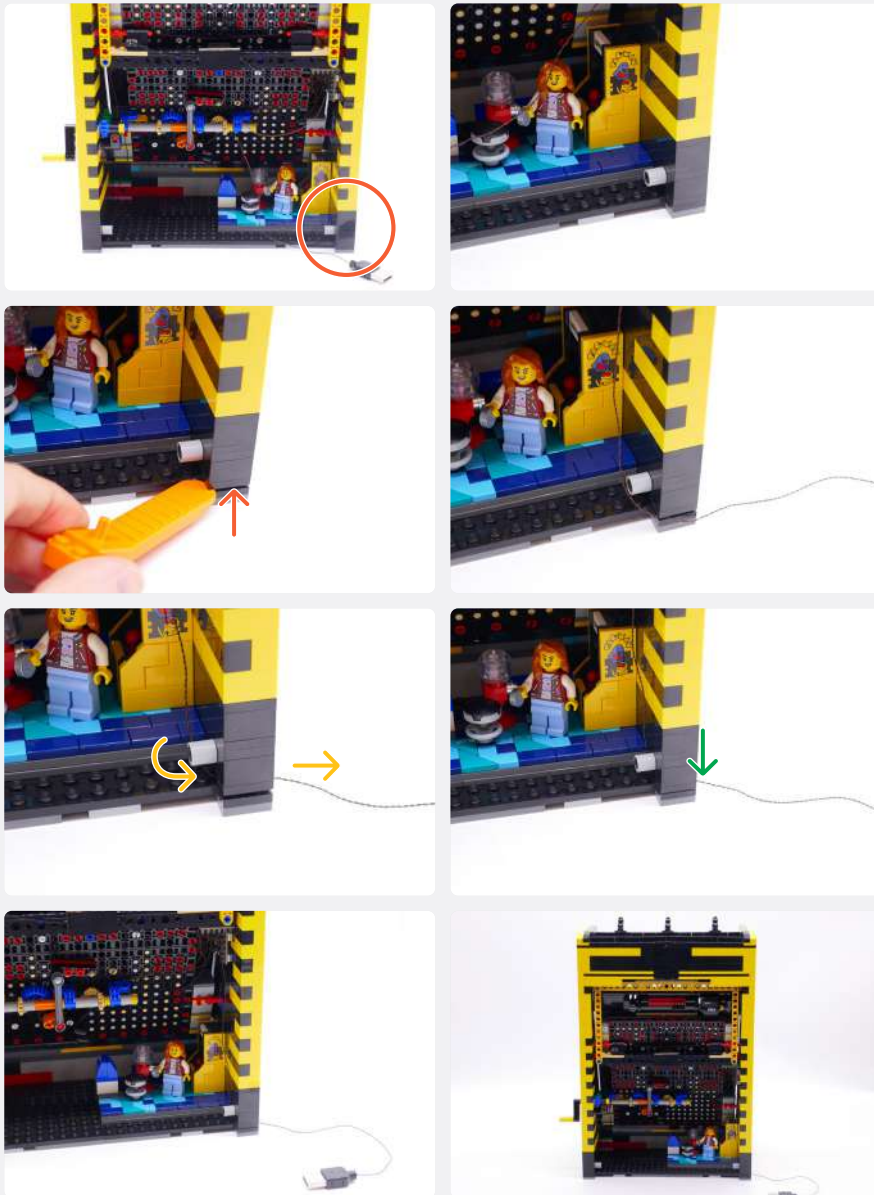
NOTE


If you want to power the set using a power bank and store it inside the machine, follow this step. Otherwise skip to Step 38.






38



 **NOTE**

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

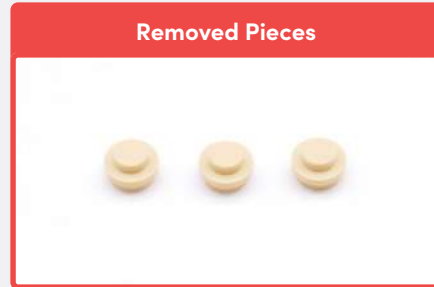




! If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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

**NOTE**

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



## FINAL PRODUCT

This finally completes installation of the Light My Bricks

LEGO® PAC-MAN Arcade 10323 Light Kit.





## TROUBLESHOOTING

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

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

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



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



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



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

## Troubleshooting

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

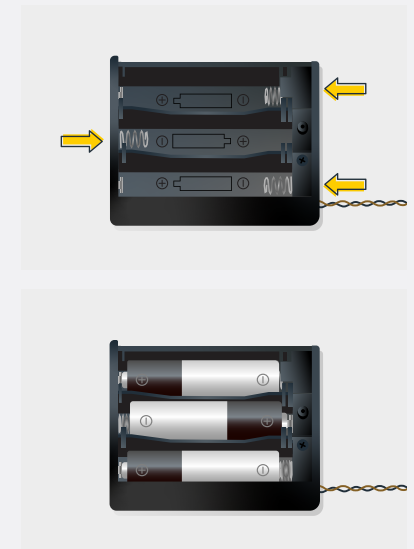
**If the batteries have no power, replace the batteries.**

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

### Check for AA batteries using the AA battery pack

Inside the battery pack are symbols indicating which direction the AA battery should be inserted. The flat side of the battery should be paired with the spring side of the battery pack.

If the batteries have been installed correctly and your kit still isn't operating correctly, the next step is to check the wiring.



## Troubleshooting

### Check Your Wires

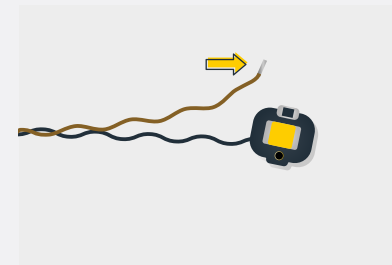
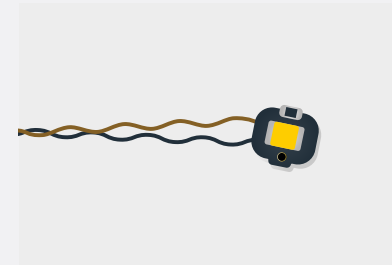
In order for Light My Bricks components to fit in between and underneath LEGO® bricks, the components need to be very small. Due to this nature, Light My Bricks components can be easily damaged when not handled correctly.

Be careful when removing unpacked components out of the packaging and ensure not to forcibly pull at the wires as this can damage the soldering that attach the wires to the LEDs.

If the wiring is detached from the LED itself, the light will not operate.

When connecting lights to your LEGO® set, check that there are no pinched wires underneath or in between bricks and plates.

When the wires are pinched and the exposed wires are touching each other, this can cause a crosswire and the lights to not function correctly.



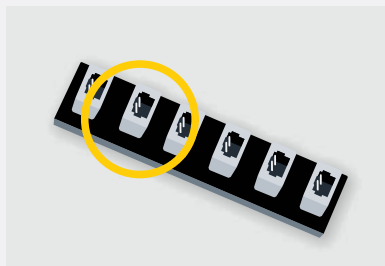
## Troubleshooting

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

It is important to note that connectors can only be inserted to the expansion board, strip light, or effects board ports in one direction.

Forcibly inserting connectors in the incorrect direction will result in damaging the pins inside each of the ports on your component board.

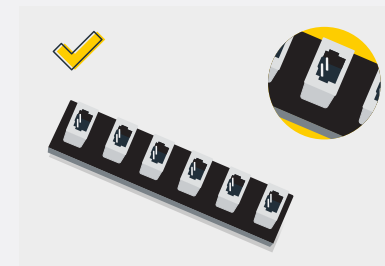
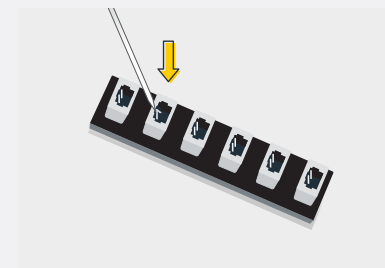
Not only will a light connected to the damaged port not work, but if the pins inside the port are bent to a point they are touching each other, this can result in all other lights in the system to stop working. This is a short circuit.



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

If you suspect you have a faulty component due to a bent pin, try the following steps:

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





## CONTACT US

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

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

[support.lightmybrick.com](https://support.lightmybrick.com)

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





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