



**LIGHT^{MY}
BRICKS**



**LEGO[®] 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 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:

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

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Before You Begin



Laying cables in between and underneath bricks

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

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



Connecting Cable Connectors To Expansion Boards

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

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

Before You Begin



Connecting Cable Connectors To Strip Lights

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



Connecting Micro Cable Connectors To Micro Expansion Board Ports

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

Before You Begin

Installing Bit Lights Under Lego® Bricks And Plates

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



Before You Begin

The Symbols Used In This Guide

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

Light Kit Component

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

White 30cm Bit Light



Connect

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



Disconnect

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



Directional

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



Bend/Pivot

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



Turn/ Flip

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



Twist/ Braid

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



Power On Test

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



Note

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



Before You Begin

Repeat Step

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

x2

Connect Focus

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



Disconnect Focus

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



General Focus

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



General Note


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

Connect Note

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

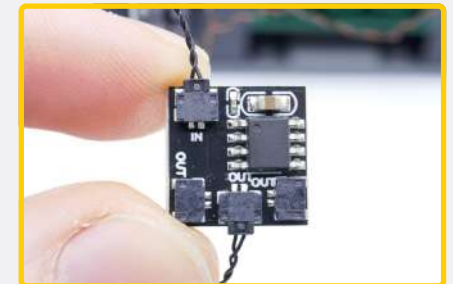
Disconnect Note


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



NOTE

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






NOTE

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





NOTE

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

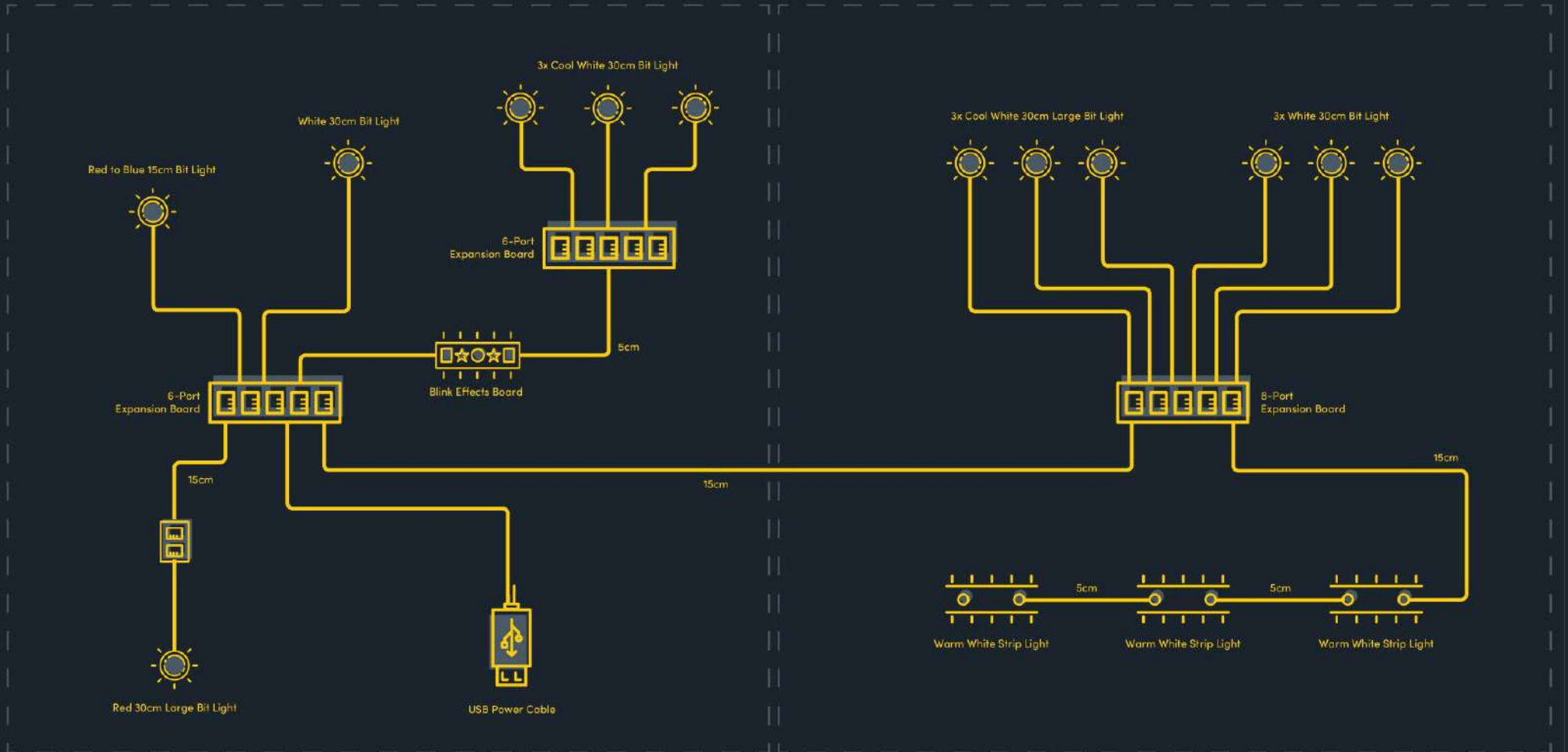




BLUEPRINT

Bottom Half

Top Half





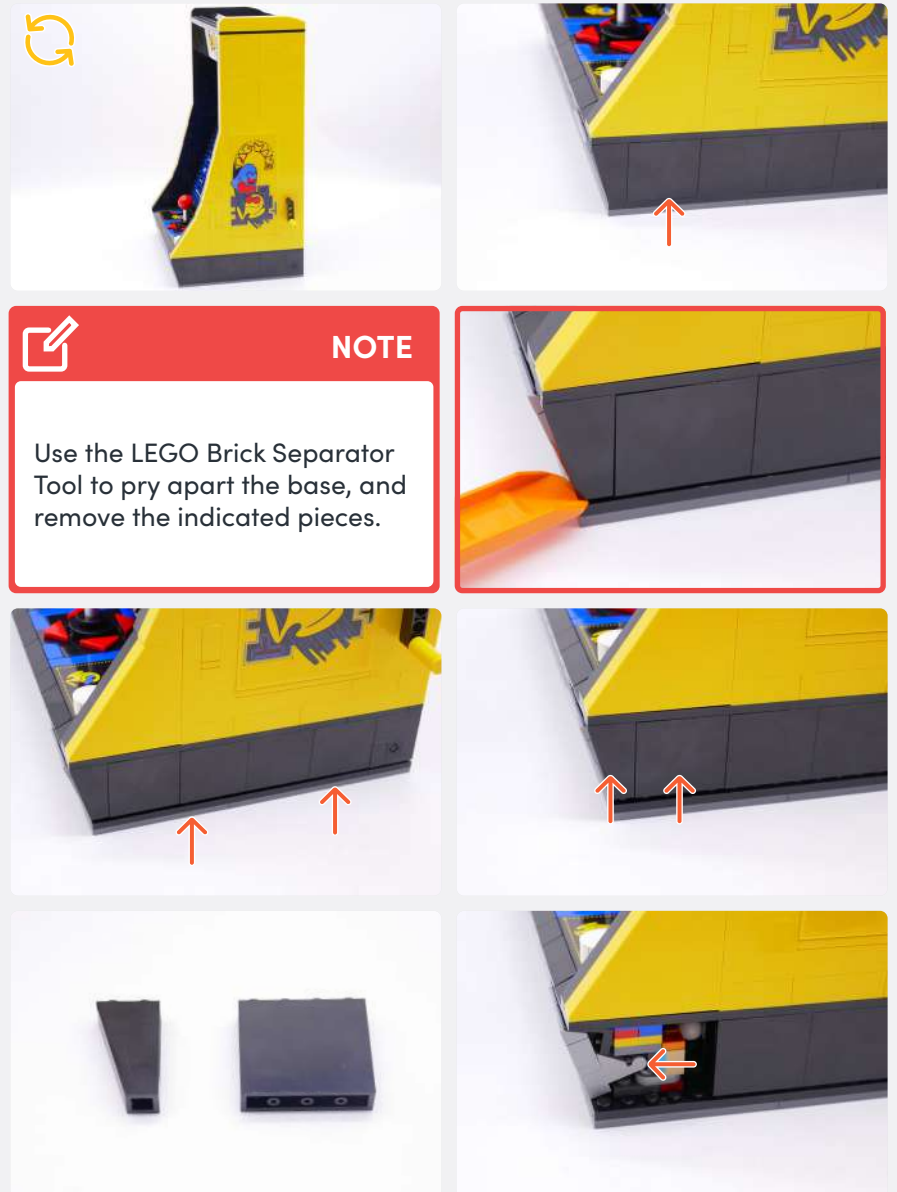
INSTRUCTIONS

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



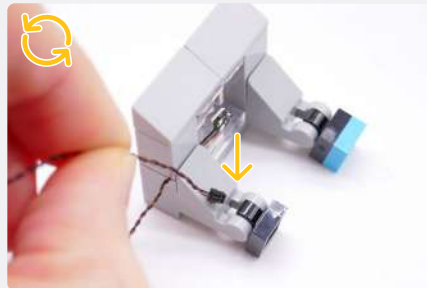
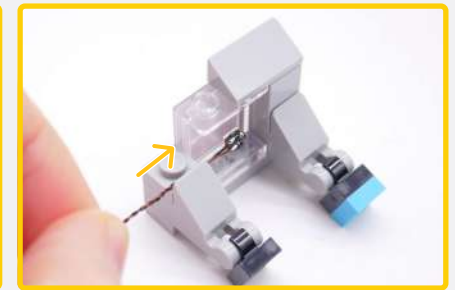
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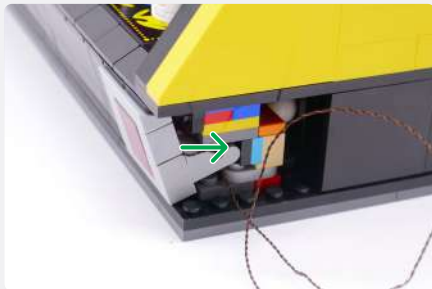
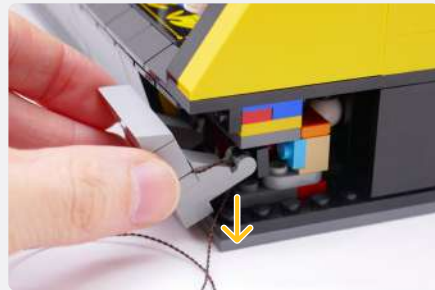



 **NOTE**

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

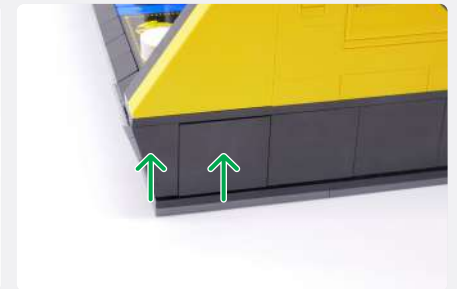
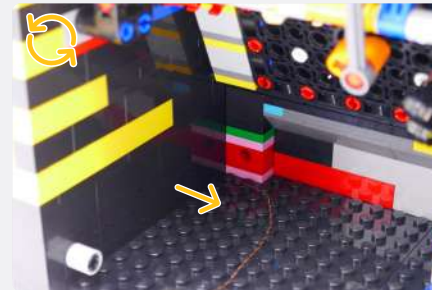
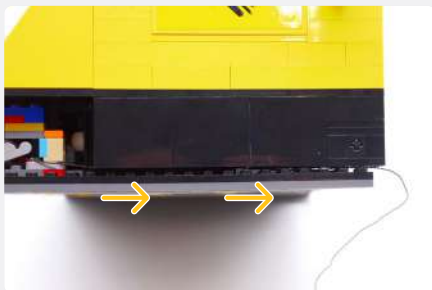
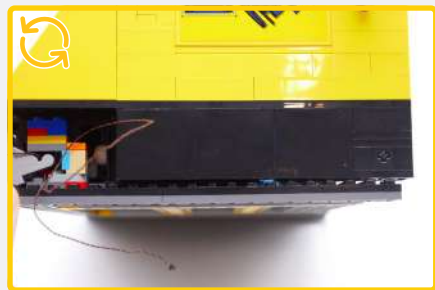


4



 **NOTE**

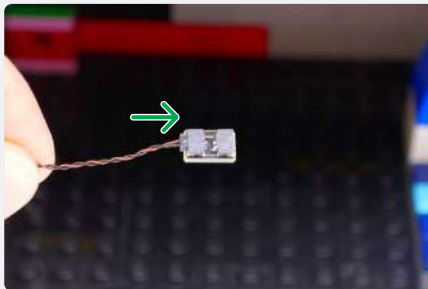
Run the cable across and between the base pieces and inside the back area.



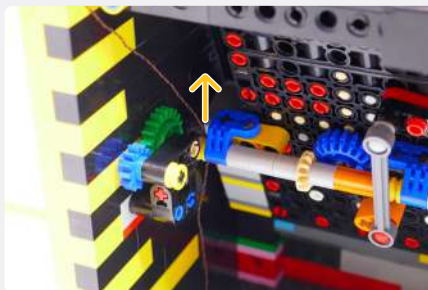
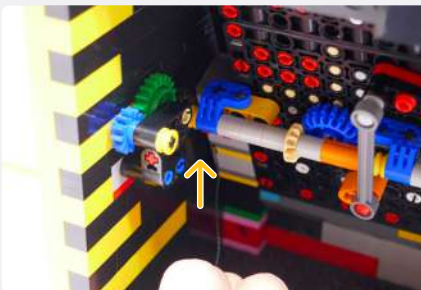
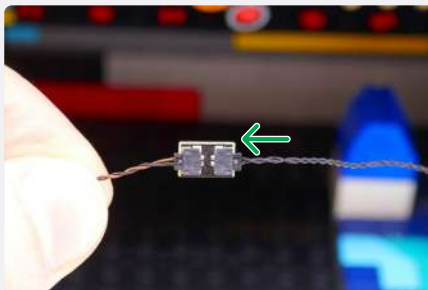
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2-Port Expansion Board

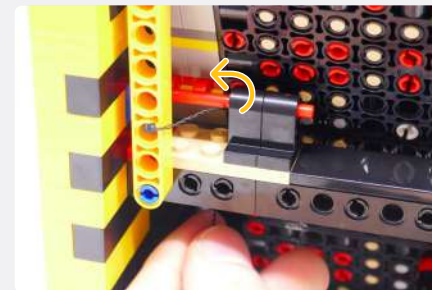
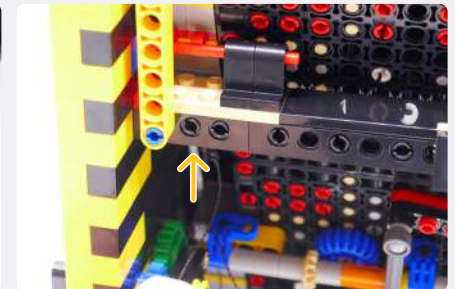
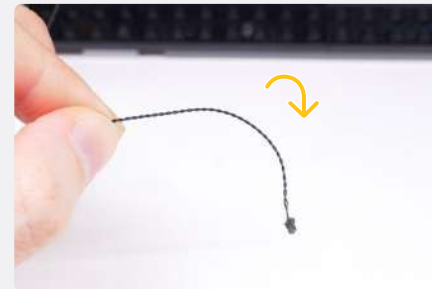
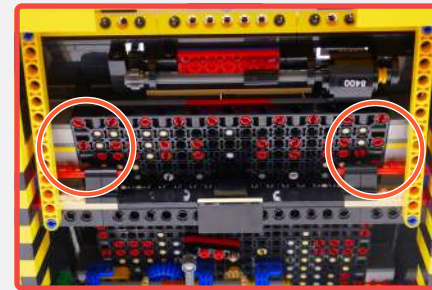


15cm Connecting Cable



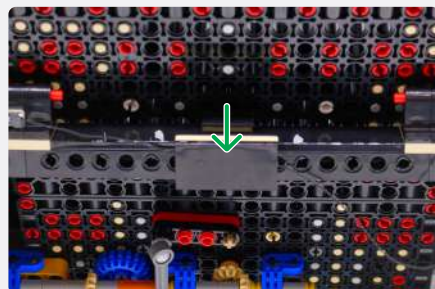
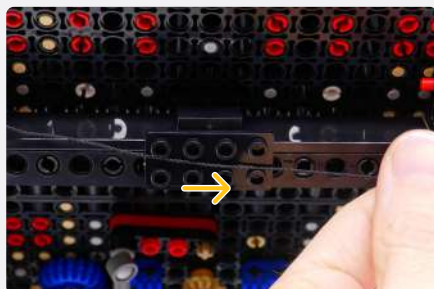
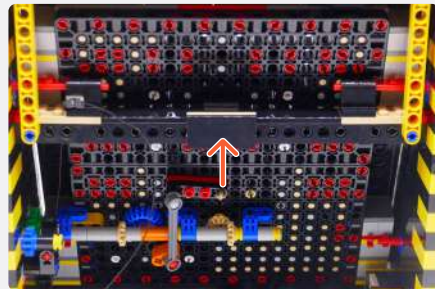
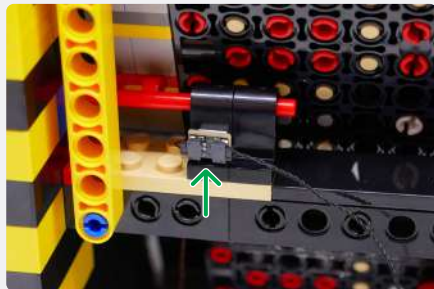
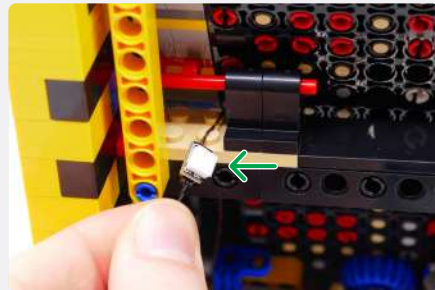
NOTE

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



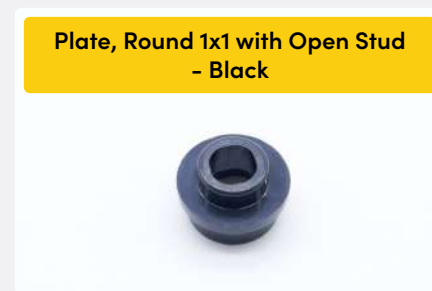
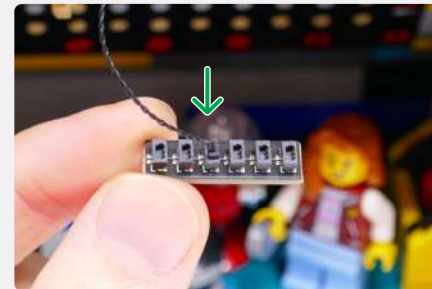
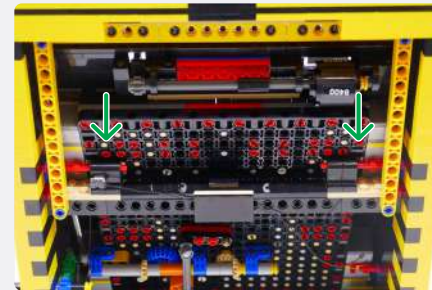
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Adhesive Square



7

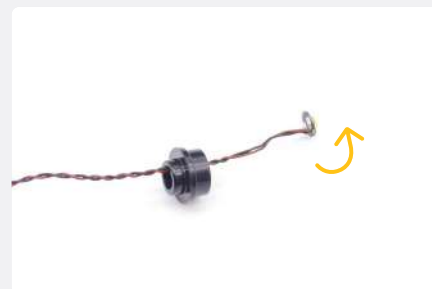
Plate, Round 1x1 with Open Stud - Black



6-Port Expansion Board



White 30cm Bit Light





Plate, Round 1x1 with Bar Handle - Black



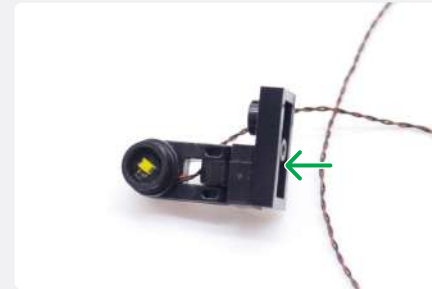
Tile, Modified 1x1 with Open O Clip - Black



Plate 1x2 - Black



8



Plate, Round 1x1 with Open Stud - Black



Red to Blue 15cm Bit Light



Plate, Round 1x1 with Bar Handle - Black



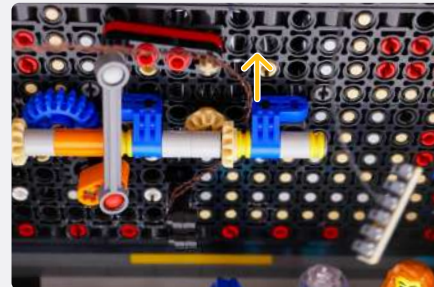
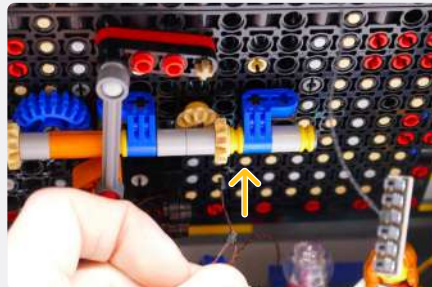
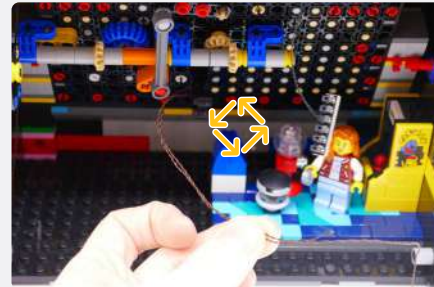
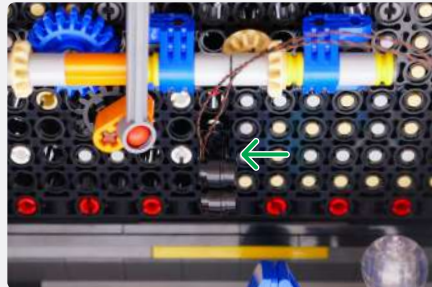
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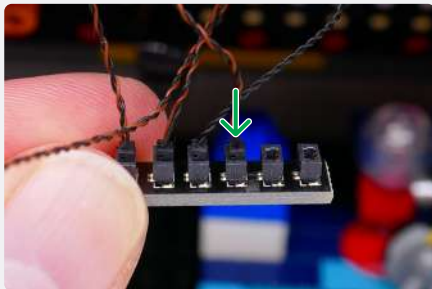
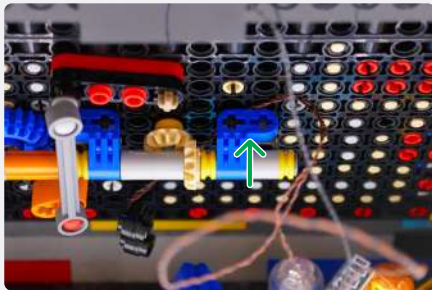
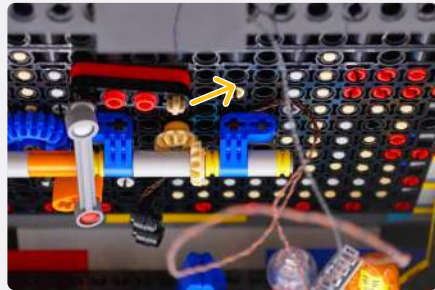
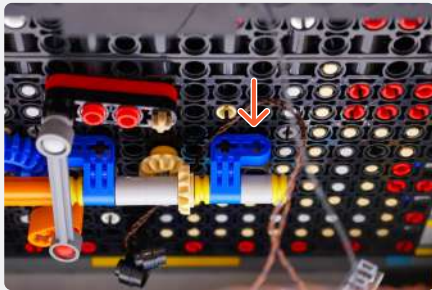
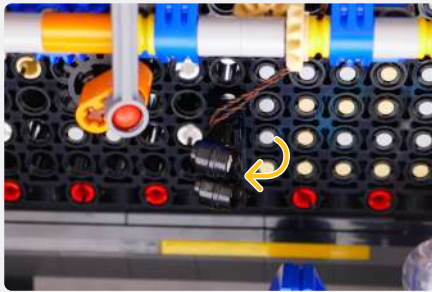


Tile, Modified 1x1 with Open O Clip - Black



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





USB Power Cable



10



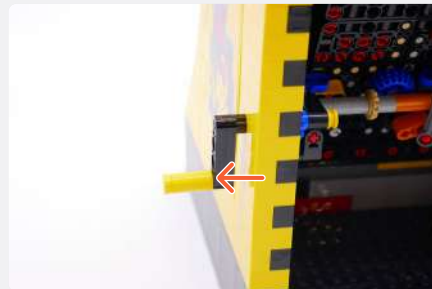
NOTE

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



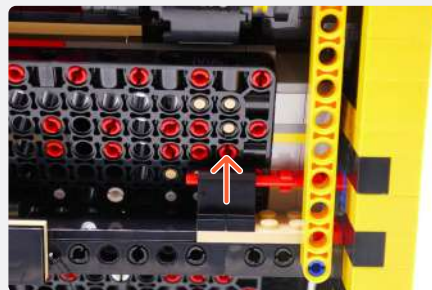
! If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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

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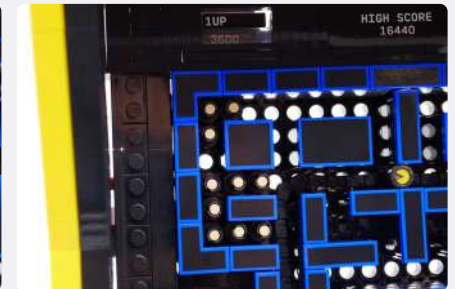
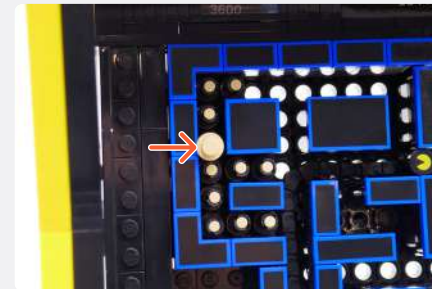


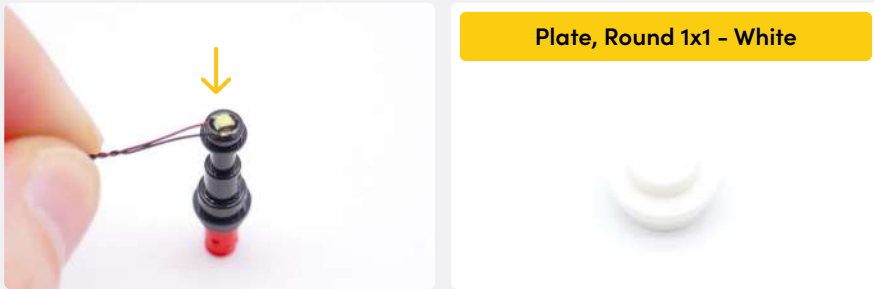
NOTE

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



12

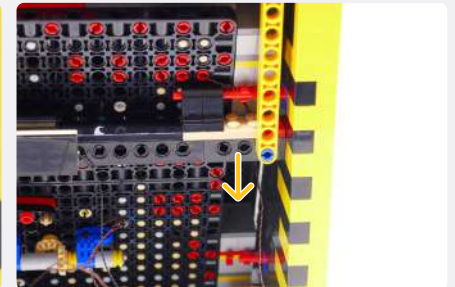
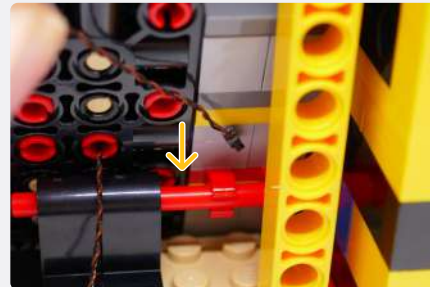
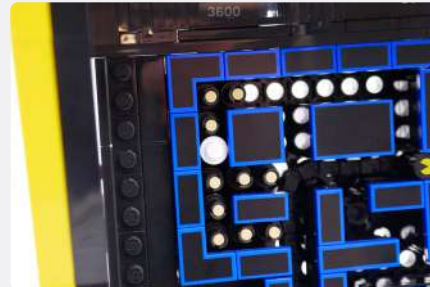
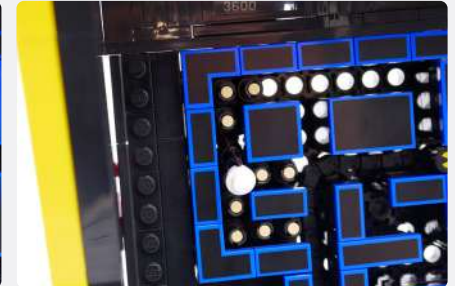
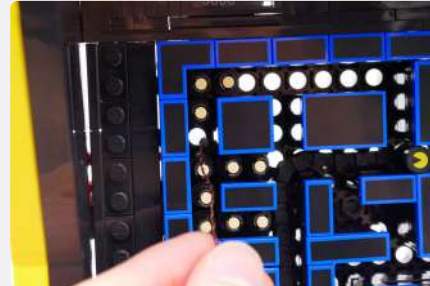




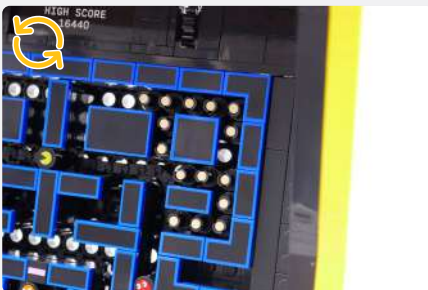
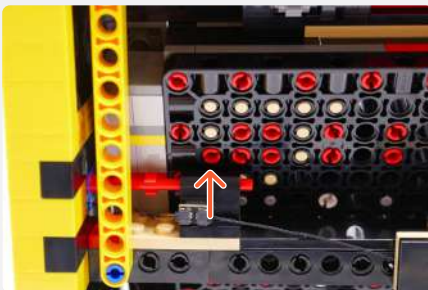
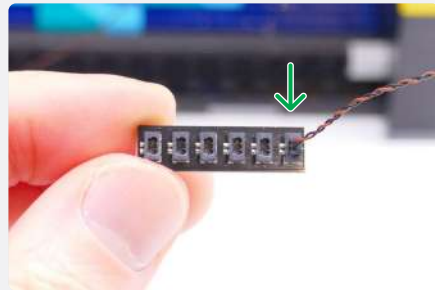
Plate, Round 1x1 - White



13



6-Port Expansion Board



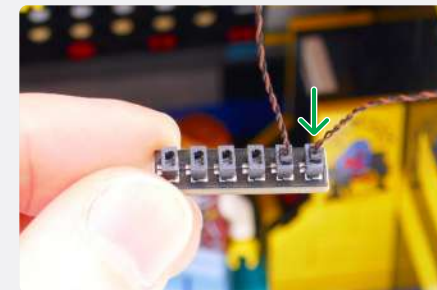
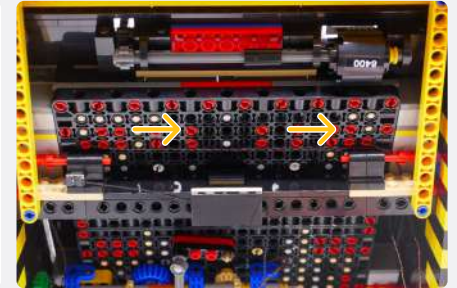
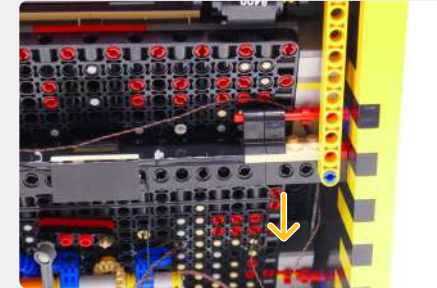
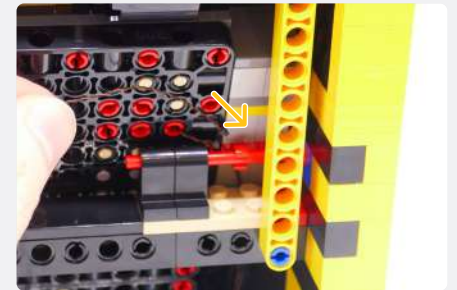
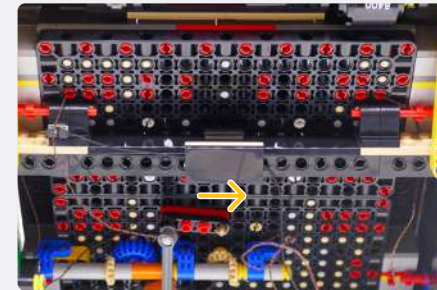
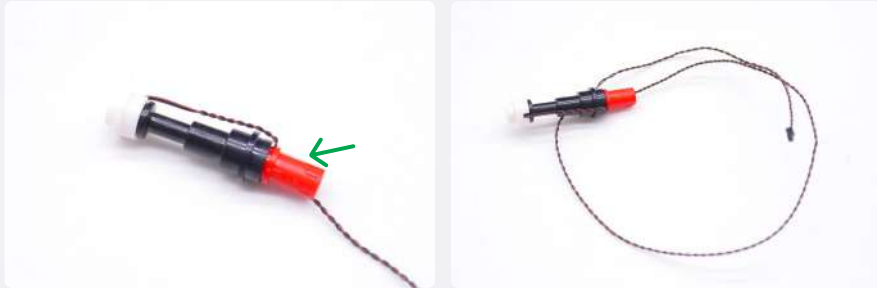
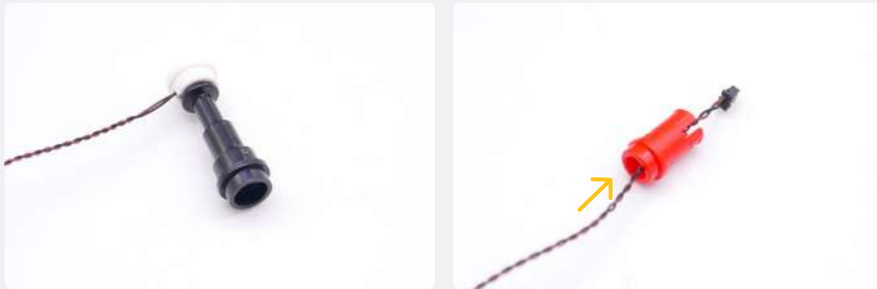
Cool White 30cm Bit Light



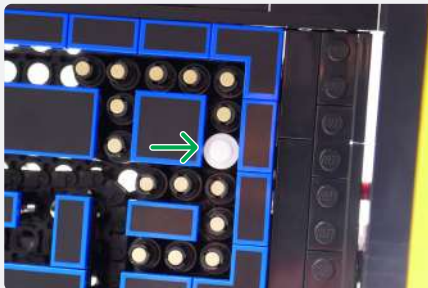
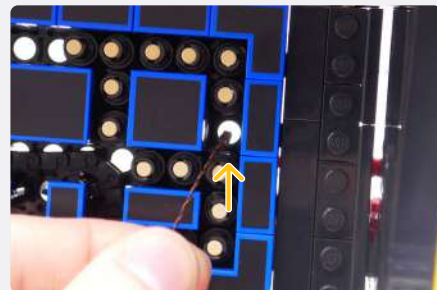
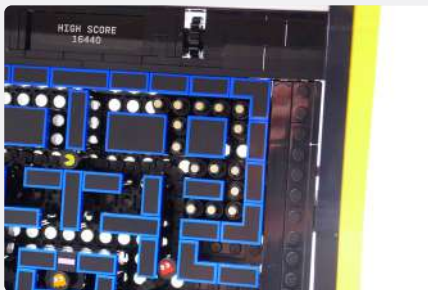
Plate, Round 1x1 - White



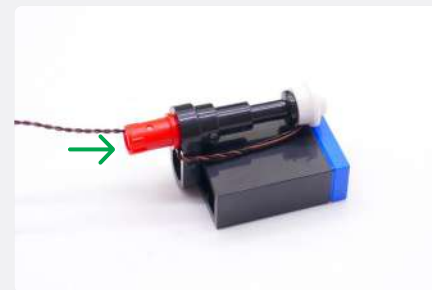
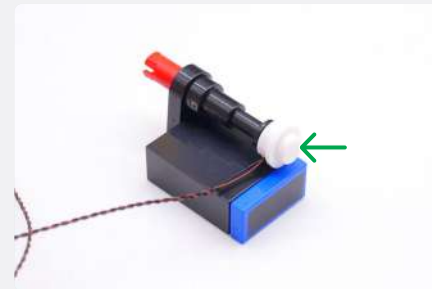
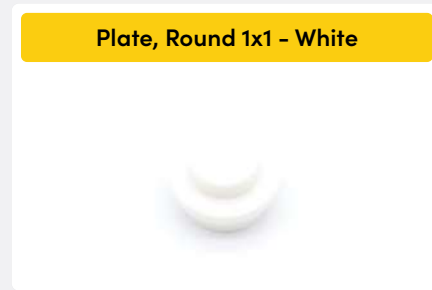
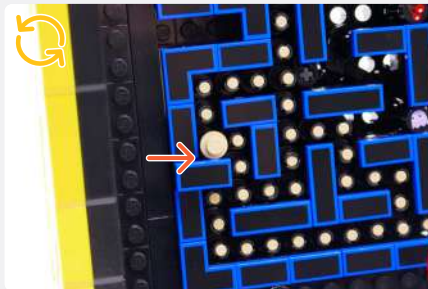
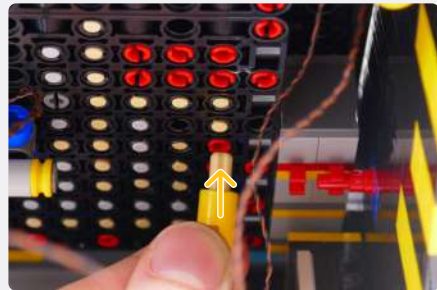
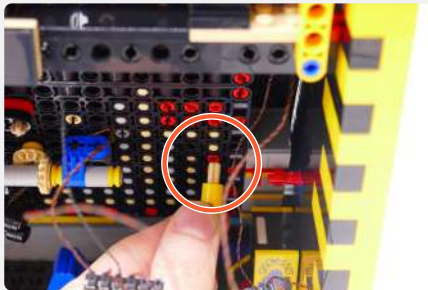
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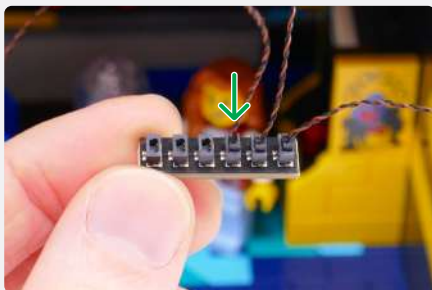
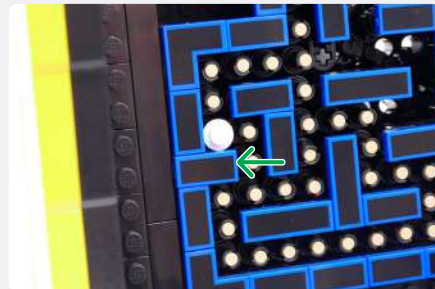
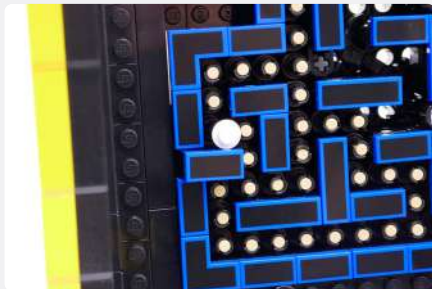
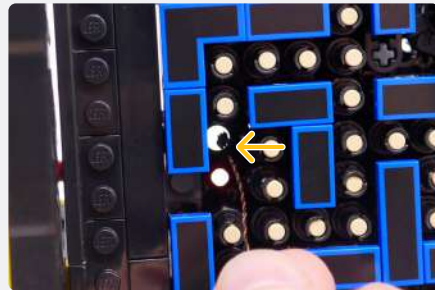
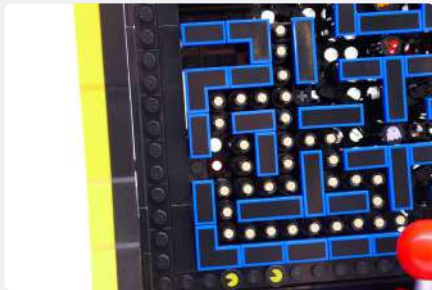
15



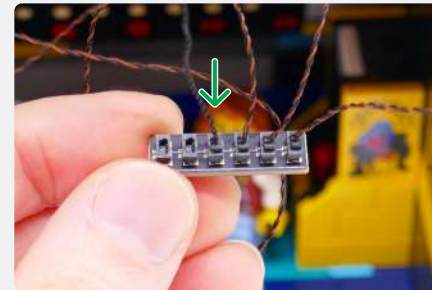
16



17



5cm Connecting Cable

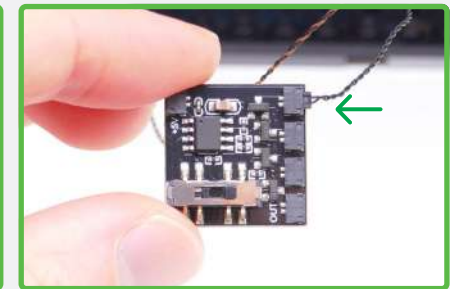


Blink Effects Board



NOTE

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

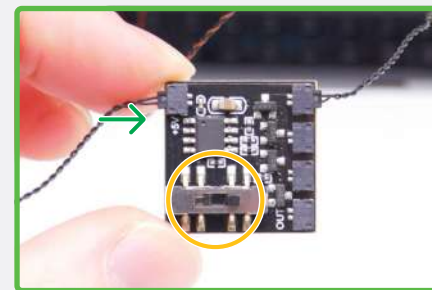


5cm Connecting Cable



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.



DISCONNECT



CONNECT



DIRECTIONAL



BEND / PIVOT



TURN / FLIP



TWIST / BRAID



POWER ON TEST

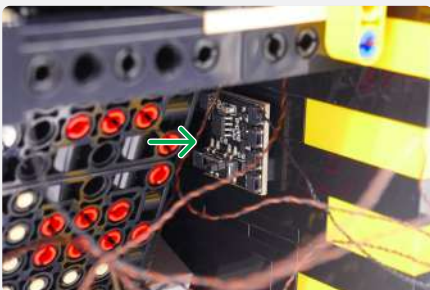
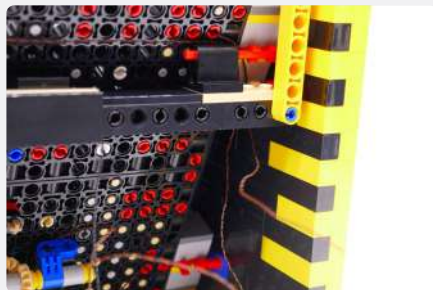
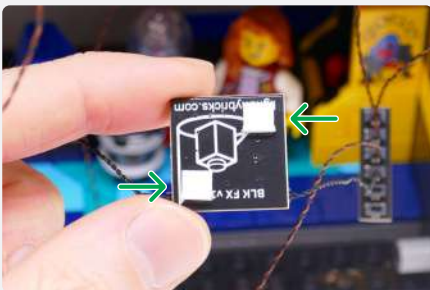
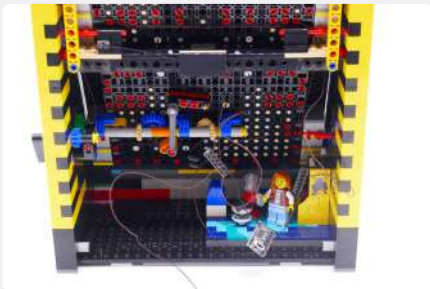
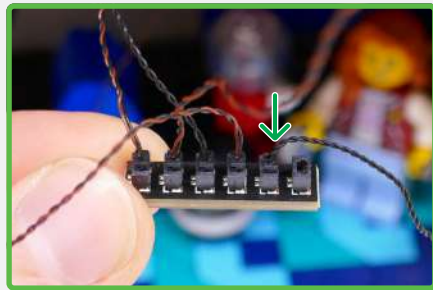


NOTE ICON

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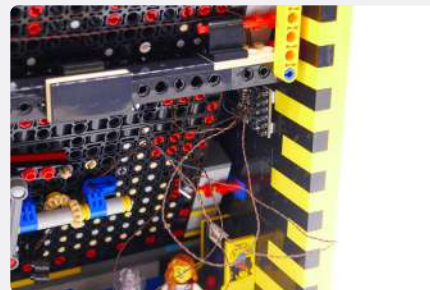
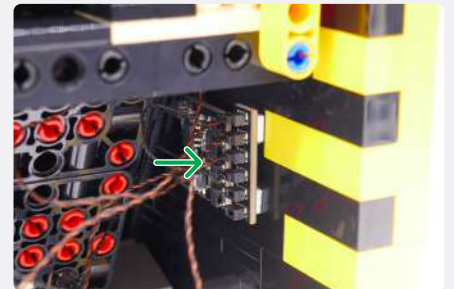
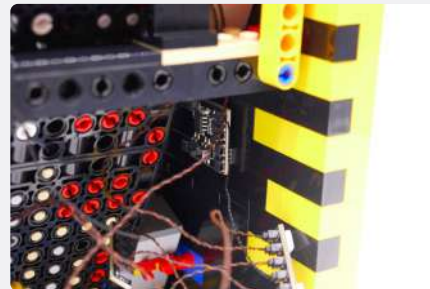
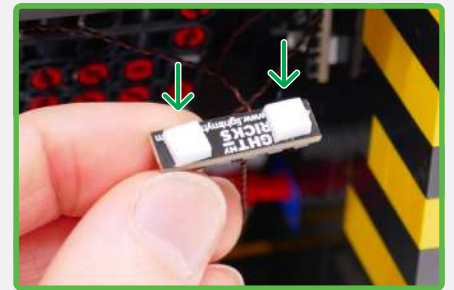
NOTE

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



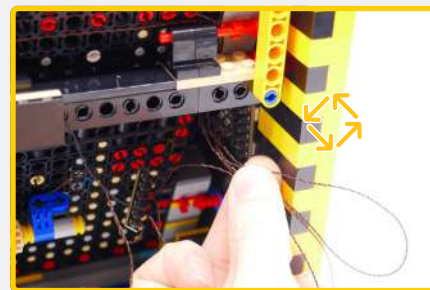
NOTE

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

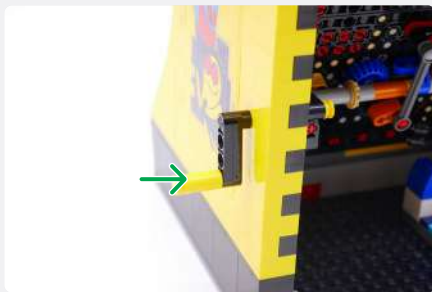
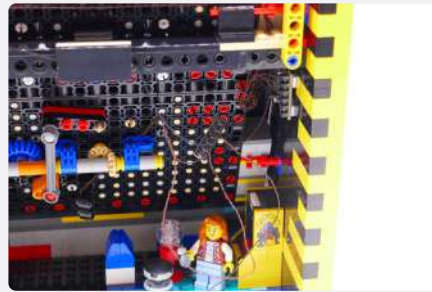
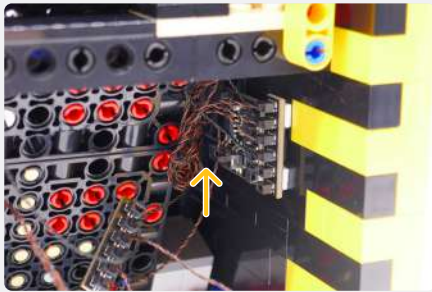



NOTE

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

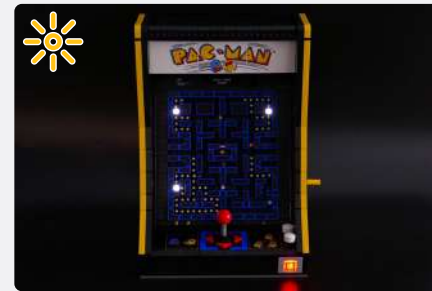



19



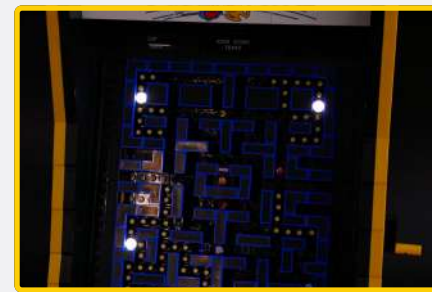
 **NOTE**


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.

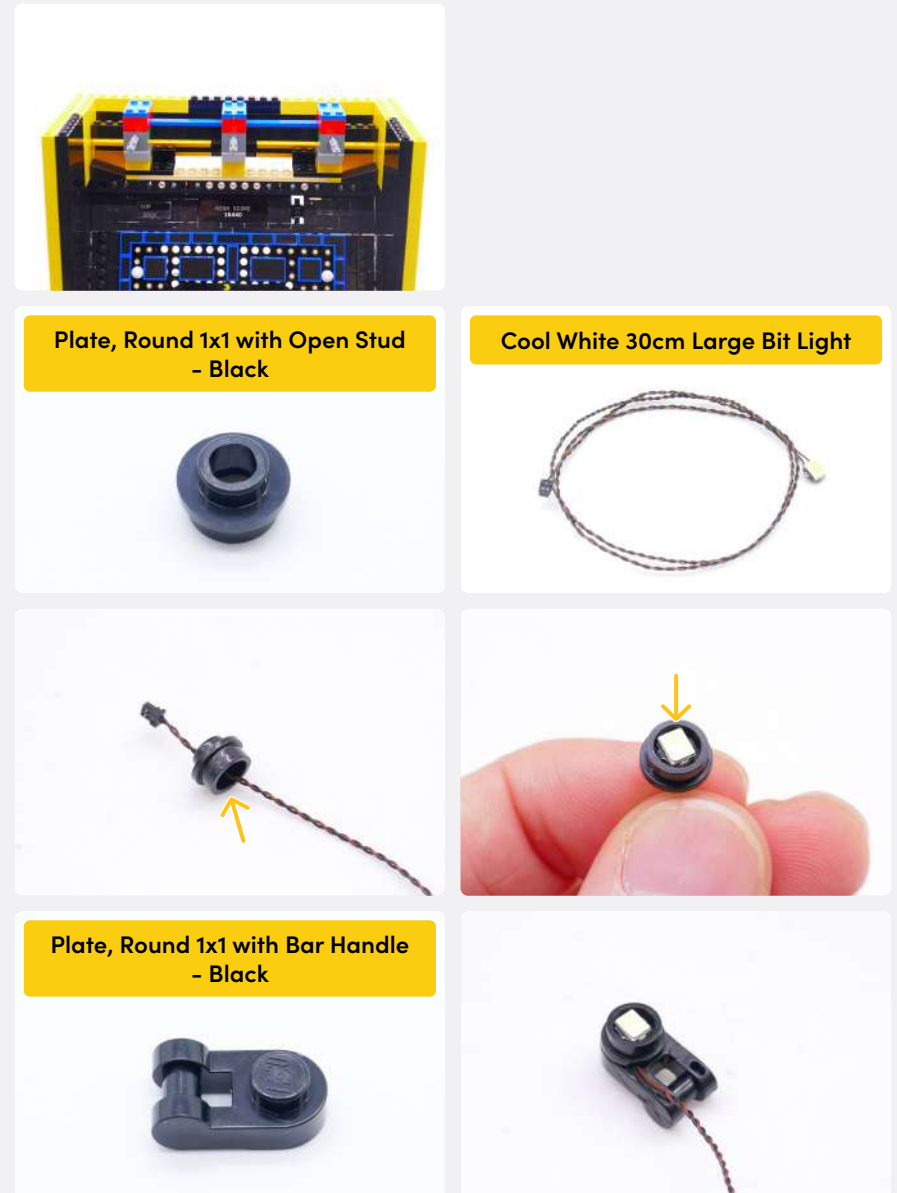


 If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing expansion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

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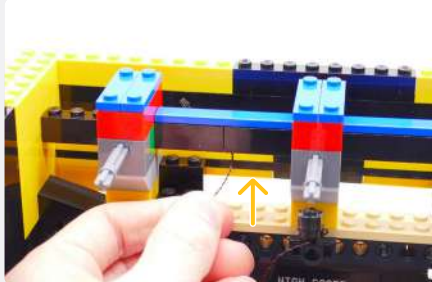
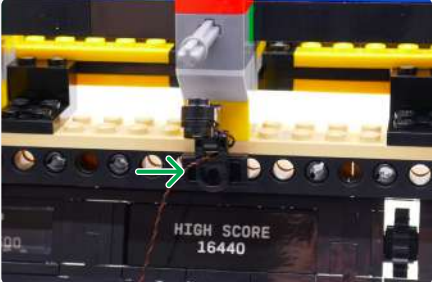




NOTE

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

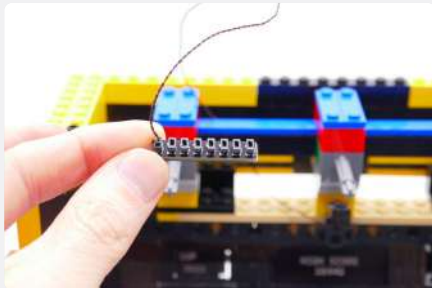
22



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8-Port Expansion Board



Plate, Round 1x1 with Open Stud - Black



Cool White 30cm Large Bit Light



Plate, Round 1x1 with Bar Handle - Black

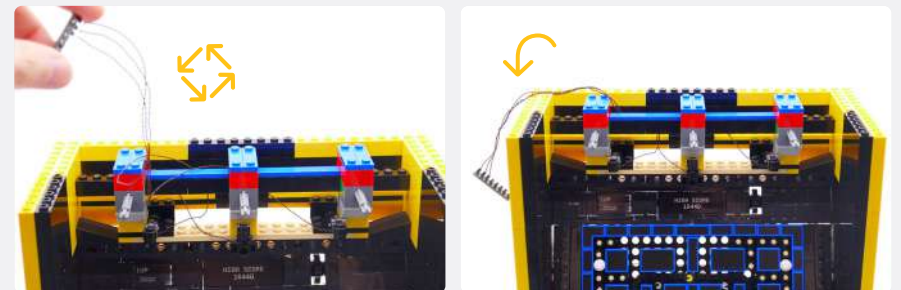
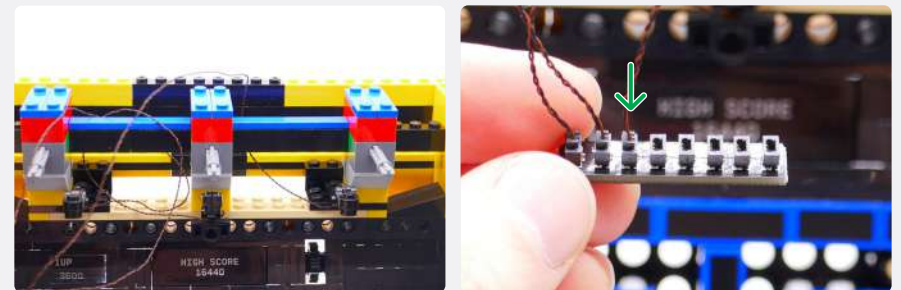
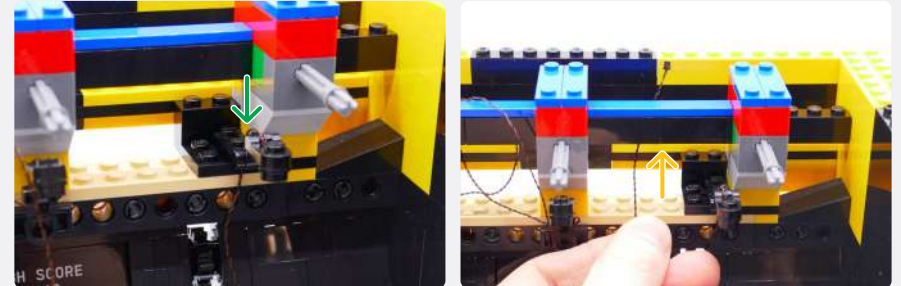
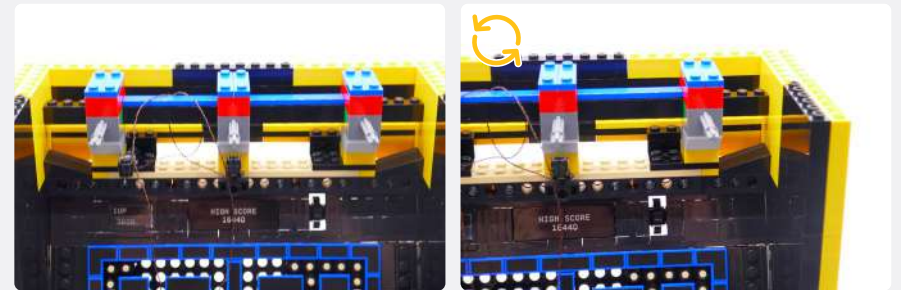


Arm Skeleton, Bent with Clips (Horizontal Grip) - Black



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





24



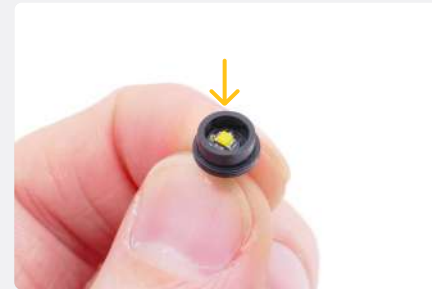
NOTE

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



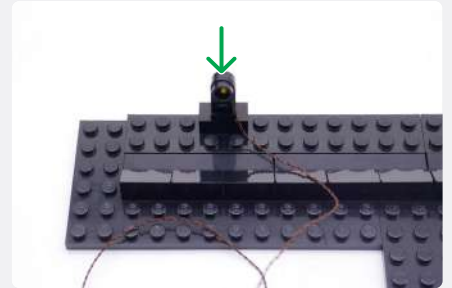
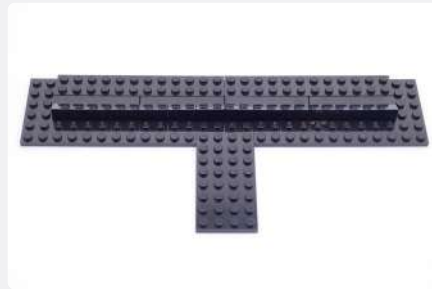
Plate 1x2 - Black

25

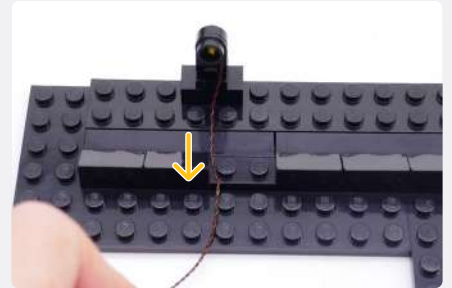
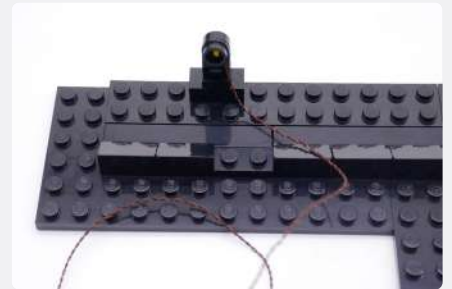
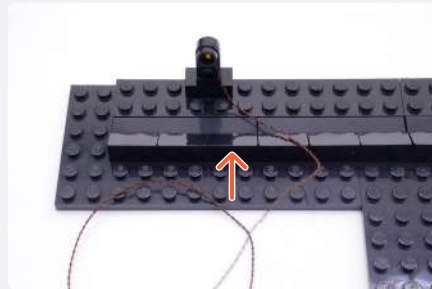
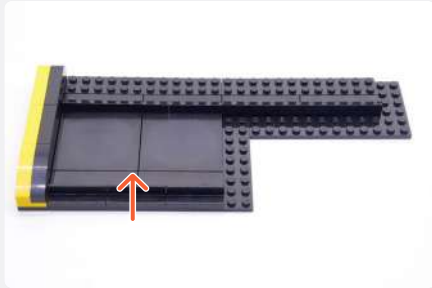
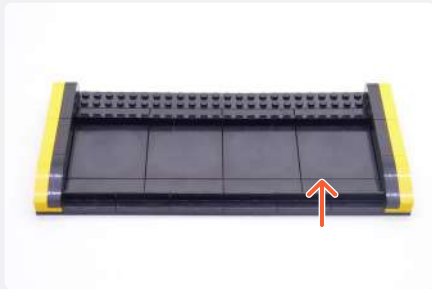


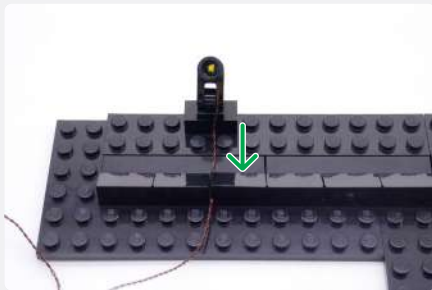
x3

27



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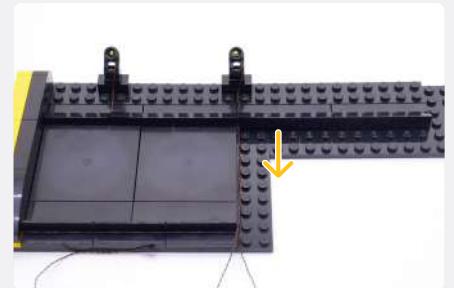
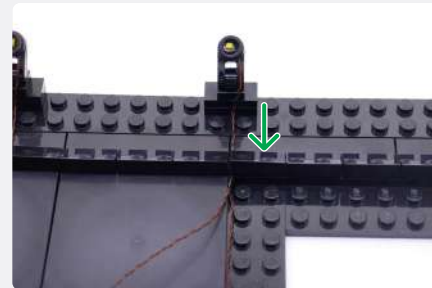
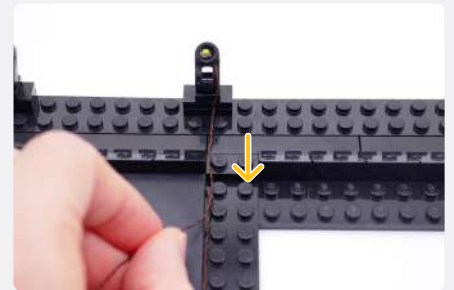
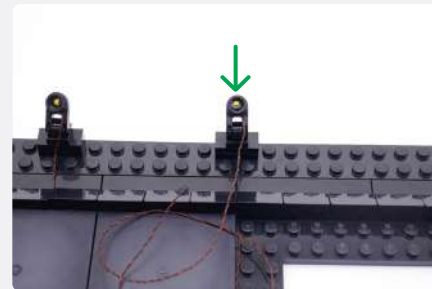
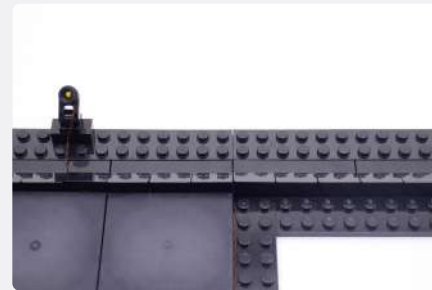
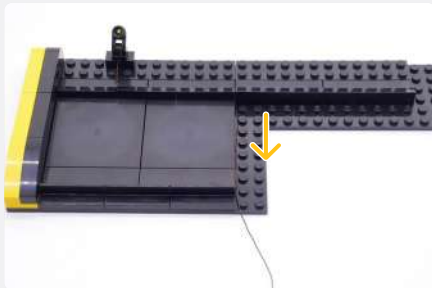
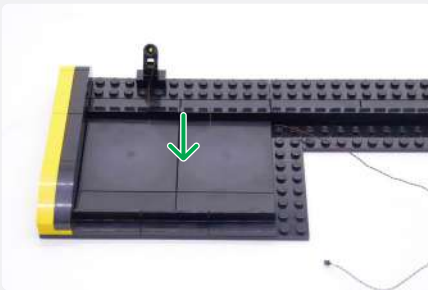
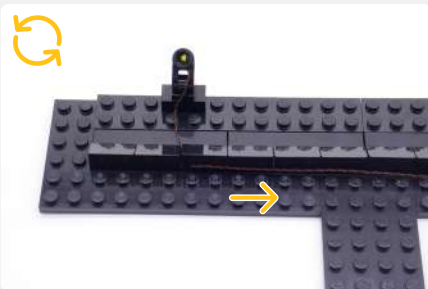
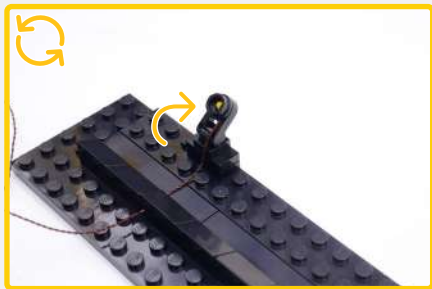




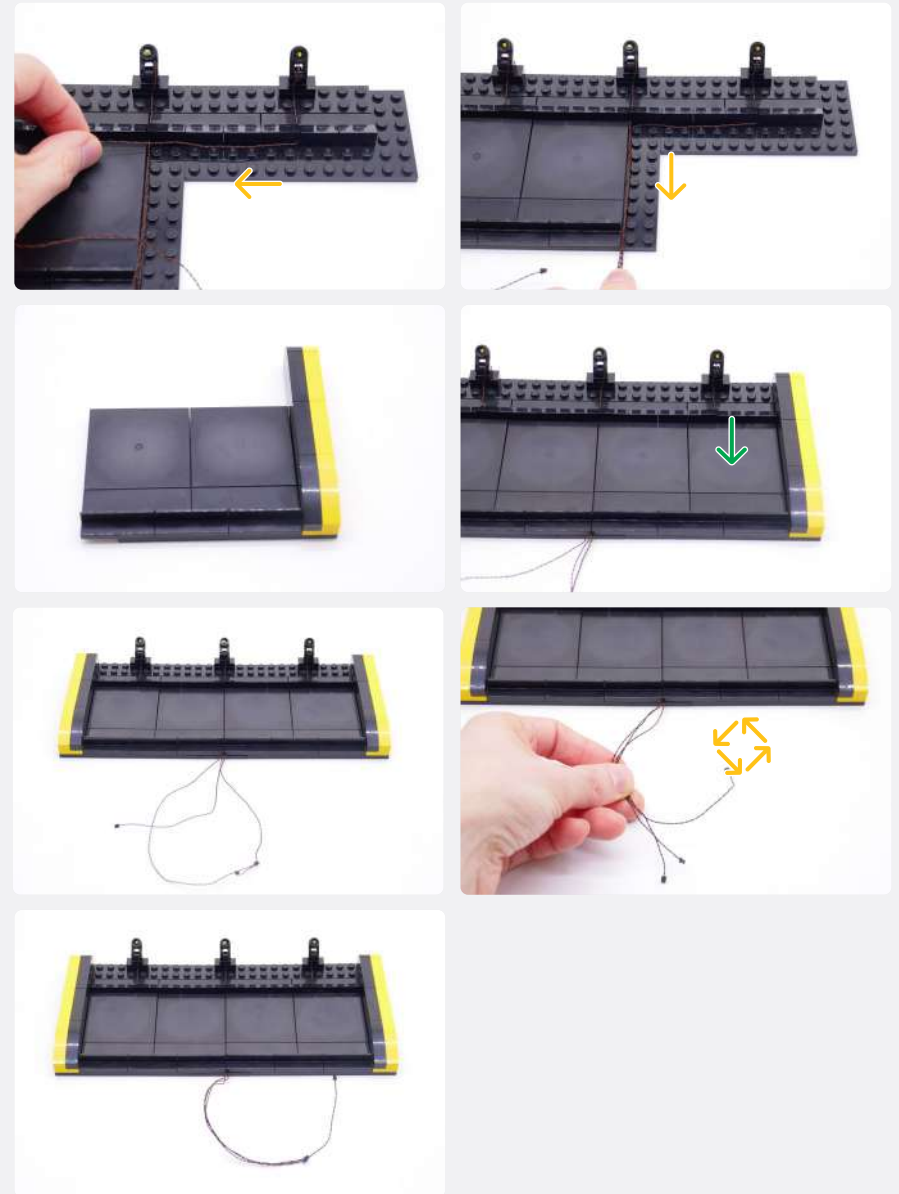
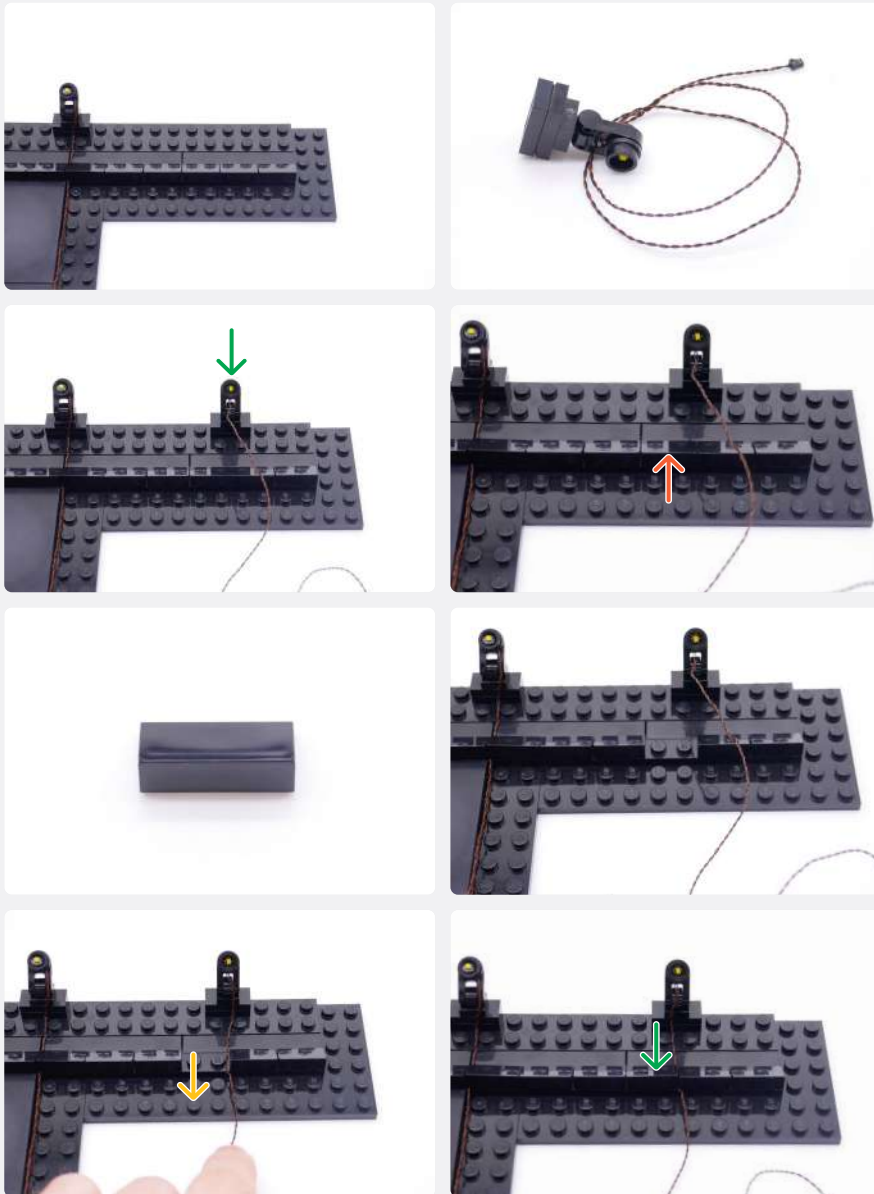
NOTE

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

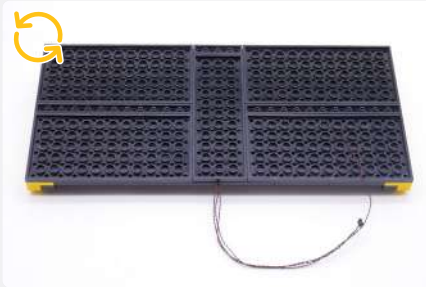
28



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30



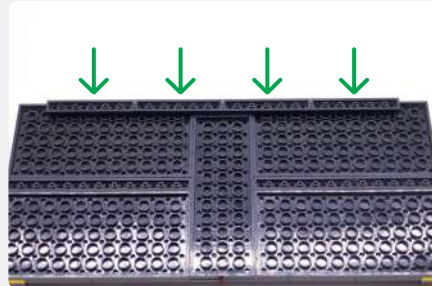
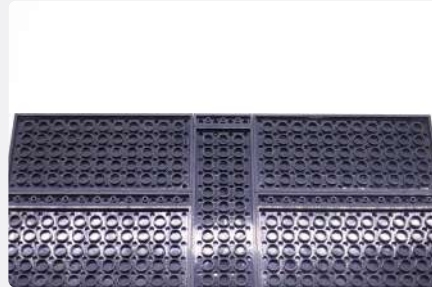
4x Plate 1x6 - Black



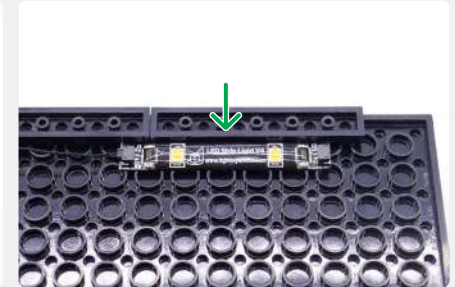
Warm White Strip Light



5cm Connecting Cable



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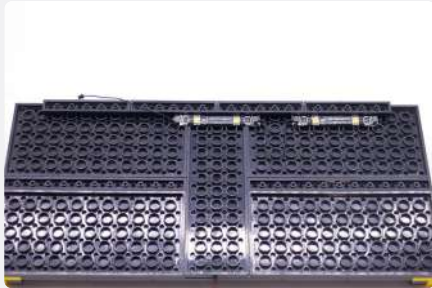
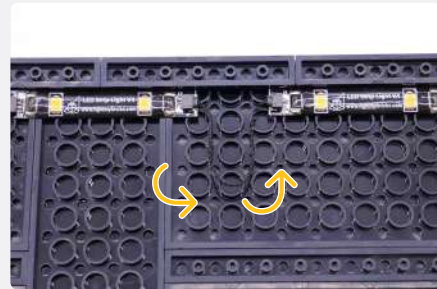
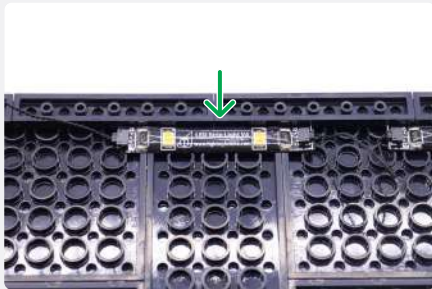
Warm White Strip Light



5cm Connecting Cable



32



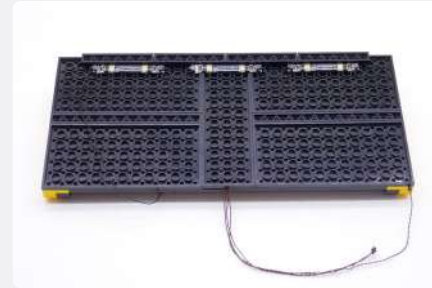
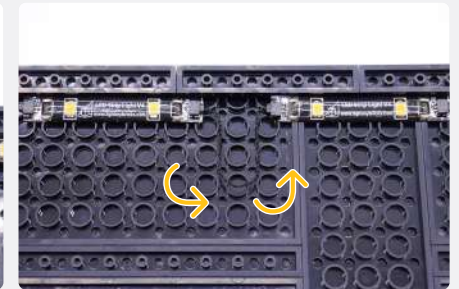
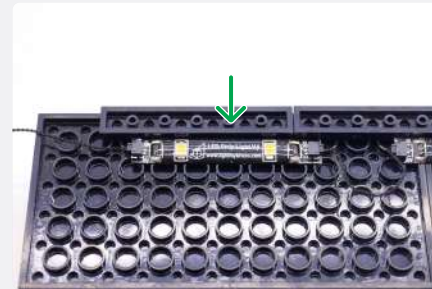
Warm White Strip Light



15cm Connecting Cable

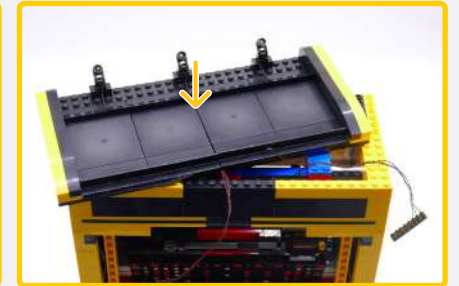


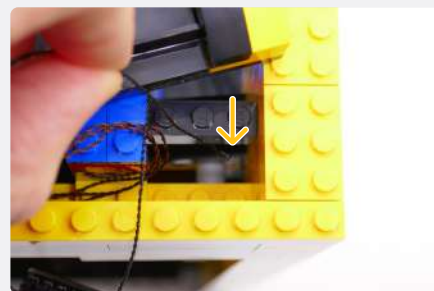
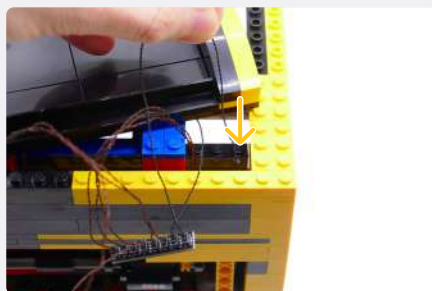
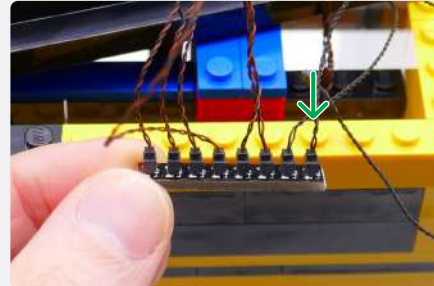
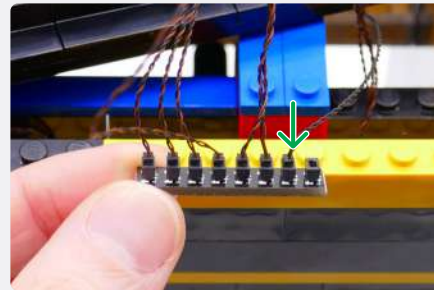
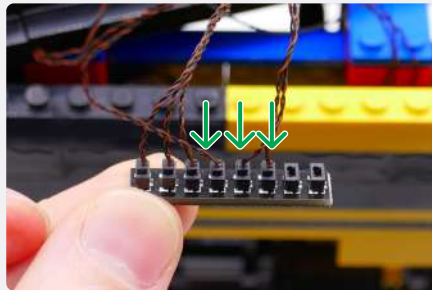
33



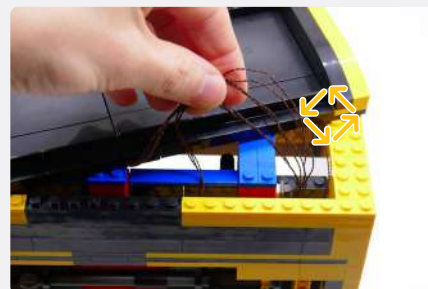
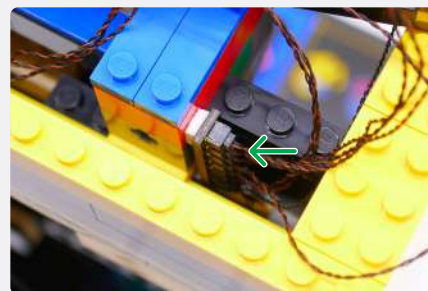
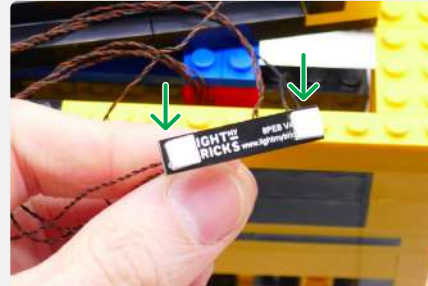
NOTE

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

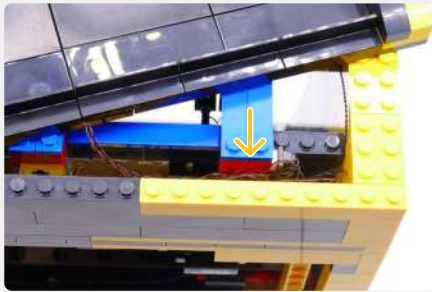




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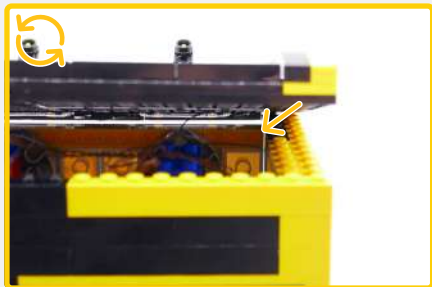


35



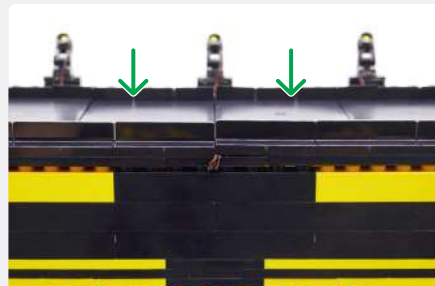
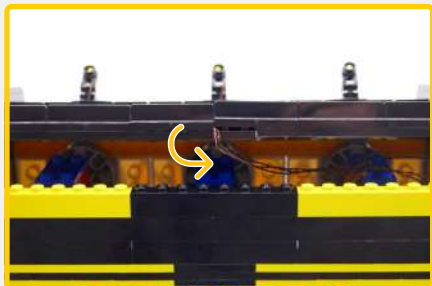
NOTE

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



NOTE

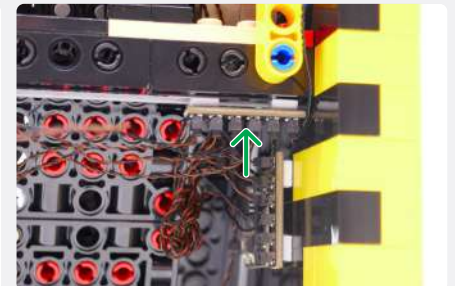
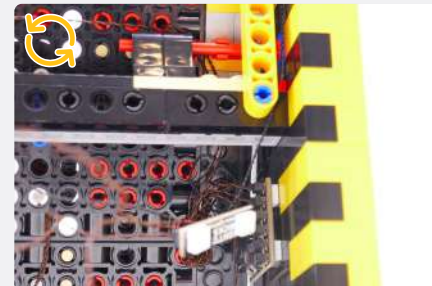
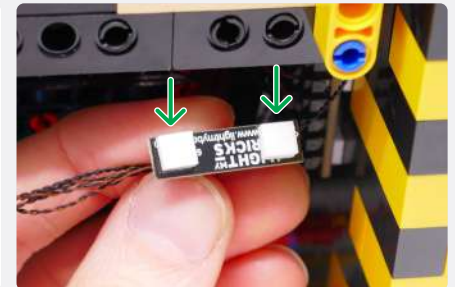
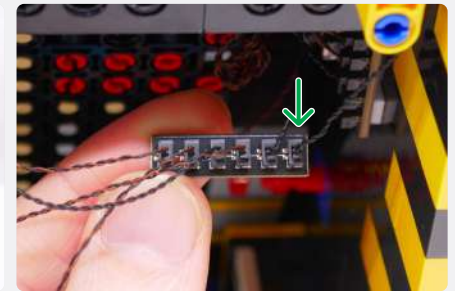
Tuck the cables coming out from the back under and inside the roof plate.

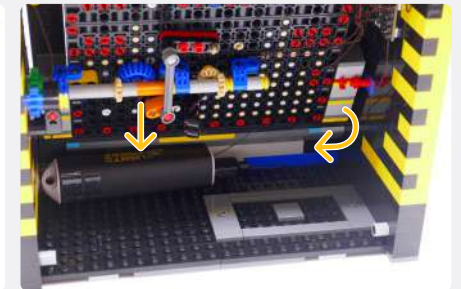
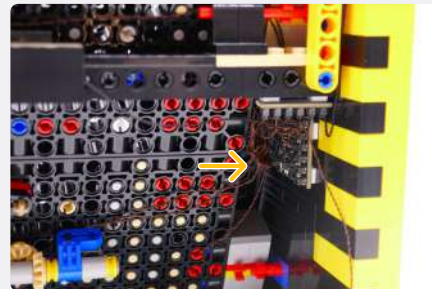
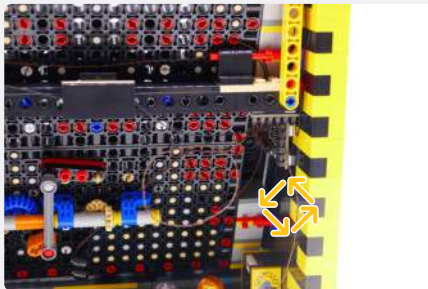
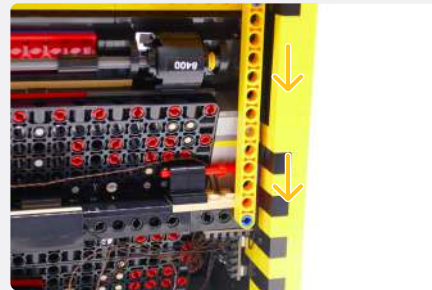


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2x Adhesive Square



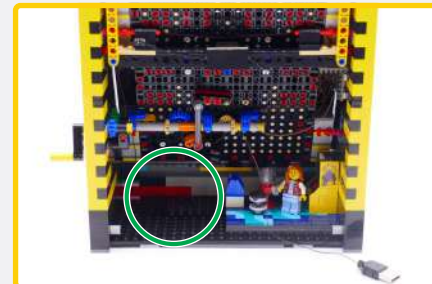


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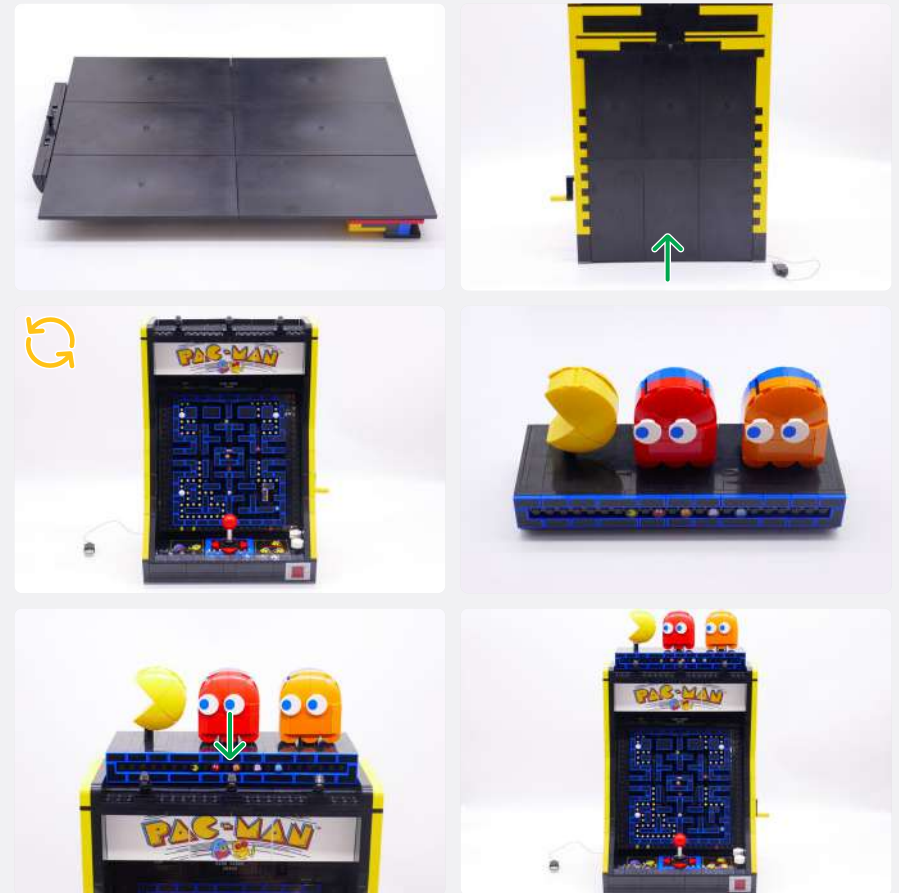
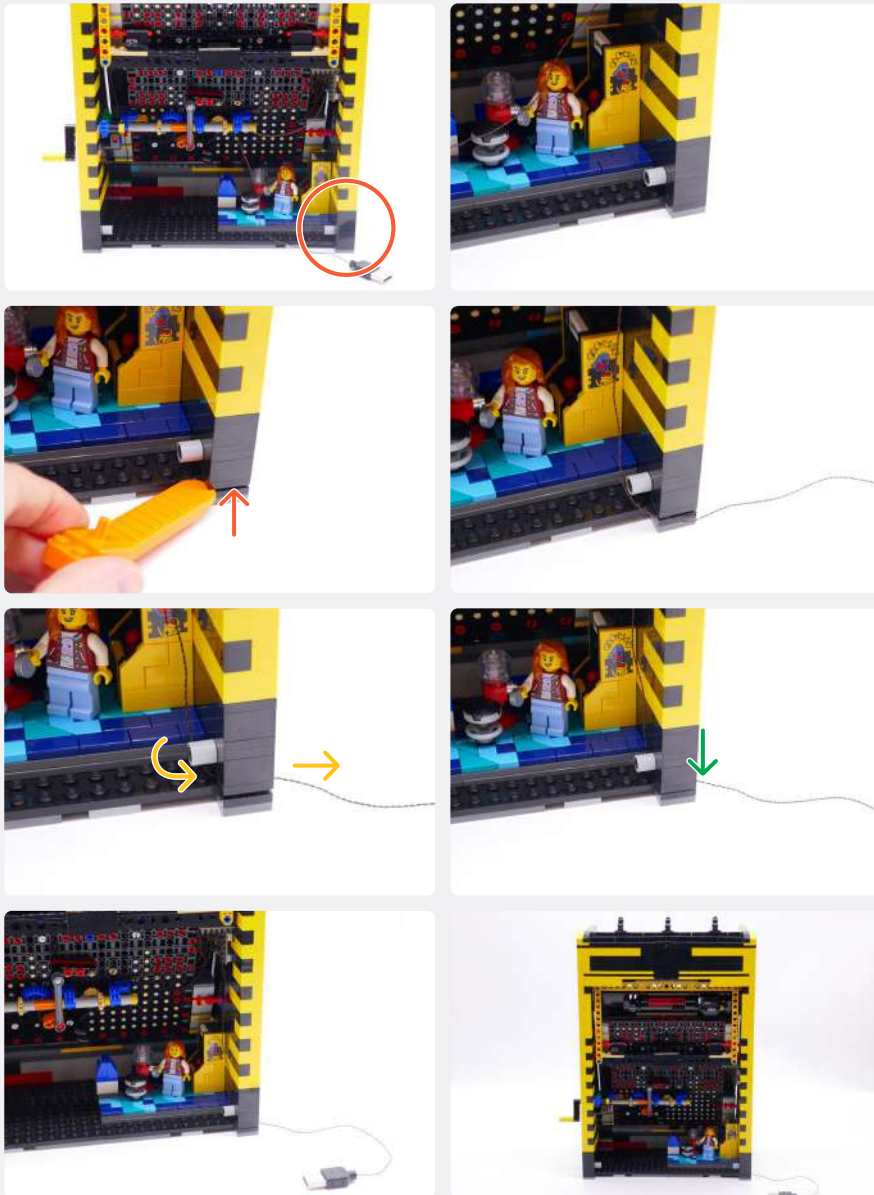


NOTE

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 [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.

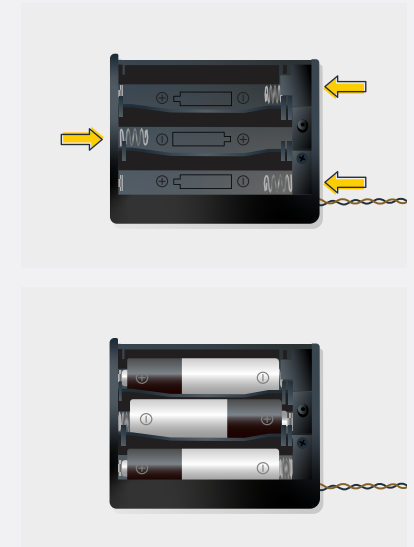
If the batteries have no power, replace the batteries.

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

Check for 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

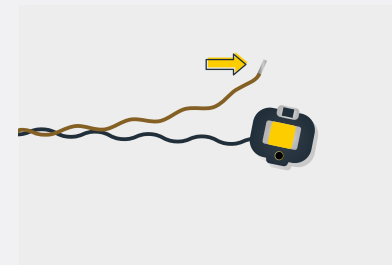
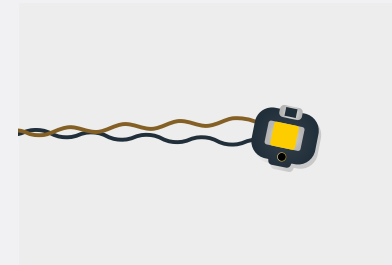
Check Your Wires

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.



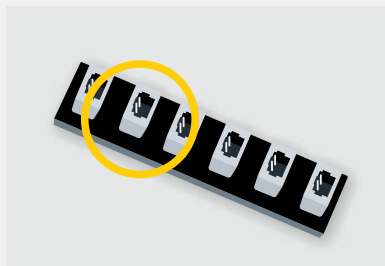
Troubleshooting

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.

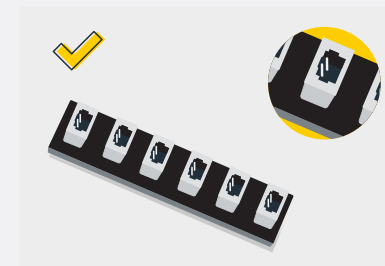
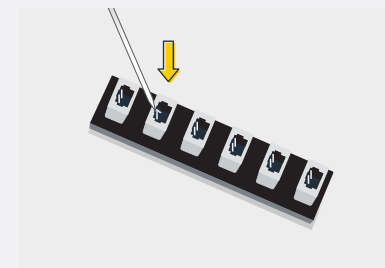
Not only will a light connected to the damaged port not work, but if the pins inside the port are bent to a point they are touching each other, this can result in all other lights in the system to stop working. This is a short circuit.



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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