LIGHT MY BRICKS

LEGO® GRINGOTTS WIZARDING BANK
COLLECTOR'S EDITION #76417 LIGHT KIT
PART 2
INSTALLATION GUIDE

Light My Bricks

LEGO® GRINGOTTS WIZARDING BANK COLLECTOR'S EDITION 76417 INSTALLATION GUIDE

Hi There!

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

Gringotts Wizarding Bank Collector's Edition 76417 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.
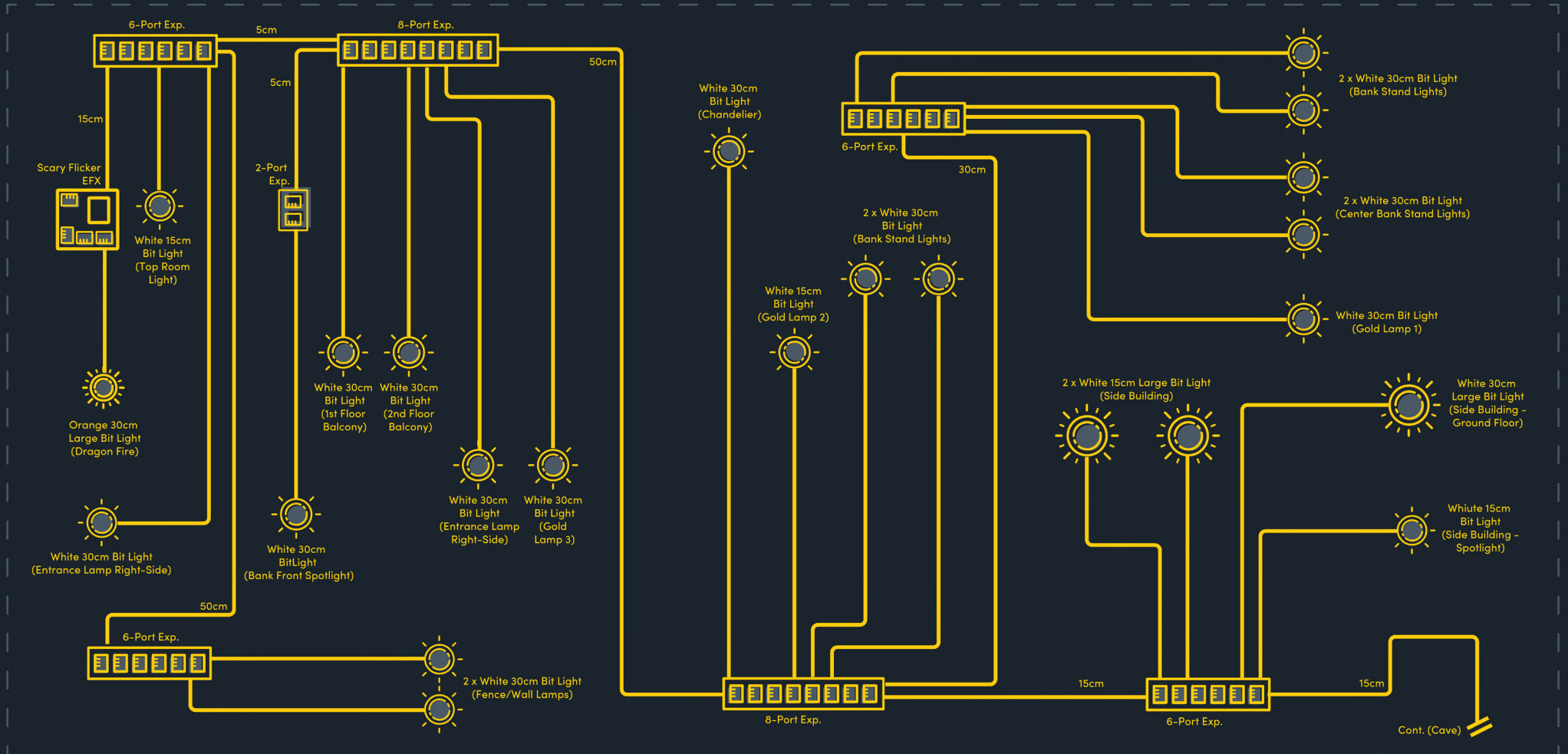
Have fun and enjoy!

Contents

BLUEPRINT

Gringotts Bank + Dragon

6-Port Exp.

5cm

8-Port Exp.

5cm

50cm

15cm

Scary Flicker EFX

2-Port Exp.

White 15cm Bit Light (Top Room Light)

White 30cm Bit Light (Chandelier)

6-Port Exp.

30cm

2 x White 30cm Bit Light (Bank Stand Lights)

2 x White 30cm Bit Light (Center Bank Stand Lights)

2 x White 30cm Bit Light (Bank Stand Lights)

White 15cm Bit Light (Gold Lamp 2)

White 30cm Bit Light (Gold Lamp 1)

Orange 30cm Large Bit Light (Dragon Fire)

White 30cm Bit Light (1st Floor Balcony)

White 30cm Bit Light (2nd Floor Balcony)

2 x White 15cm Large Bit Light (Side Building)

White 30cm Large Bit Light (Side Building - Ground Floor)

White 30cm Bit Light (Entrance Lamp Right-Side)

White 30cm Bit Light (Entrance Lamp Right-Side)

White 30cm Bit Light (Gold Lamp 3)

White 30cm BitLight (Bank Front Spotlight)

Whiute 15cm Bit Light (Side Building - Spotlight)

6-Port Exp.

50cm

2 x White 30cm Bit Light (Fence/Wall Lamps)

8-Port Exp.

15cm

6-Port Exp.

15cm

Cont. (Cave)

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

3

4

x2
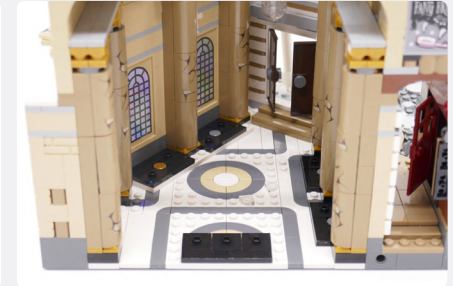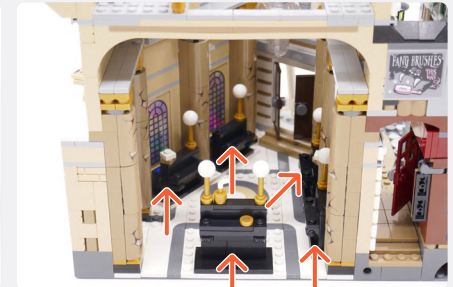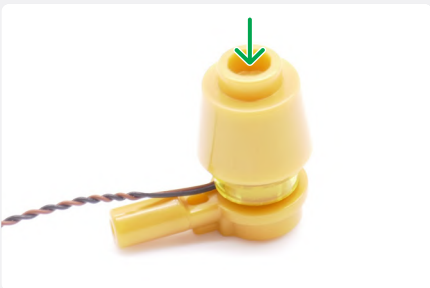
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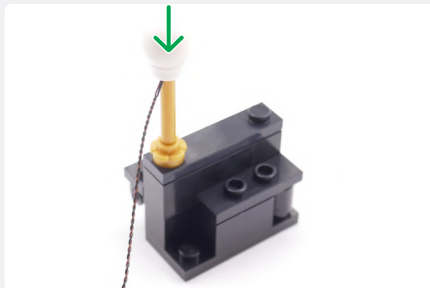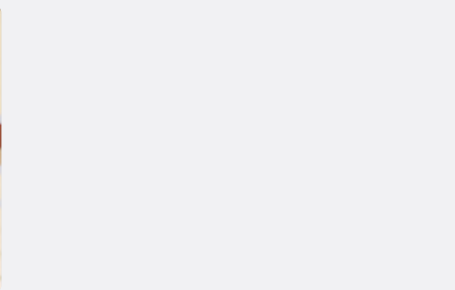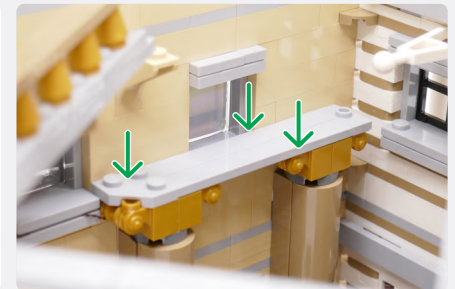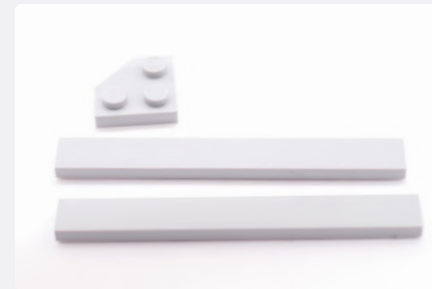Slightly lift the floor up

5

6

White 30cm Bit Light

Plate, Round 1x1 with Open Stud – White

7
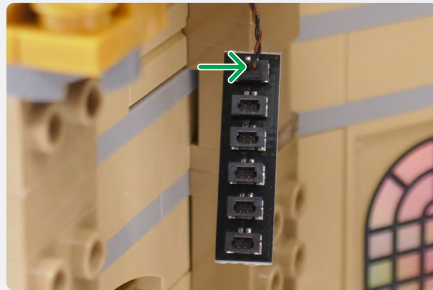
x2

→ DISCONNECT	→ CONNECT	→ DIRECTIONAL	↱ BEND / PIVOT	↻ TURN / FLIP	⤡ TWIST / BRAID	☀ POWER ON TEST	✎ NOTE ICON

8

6-Port Expansion Board

9

10

White 30cm Bit Light

x2
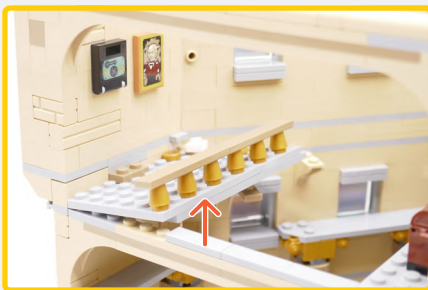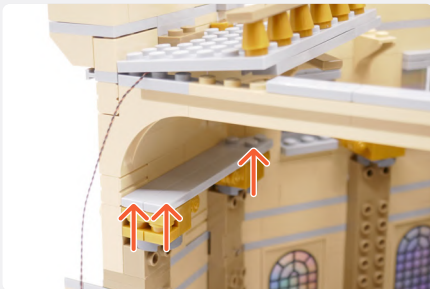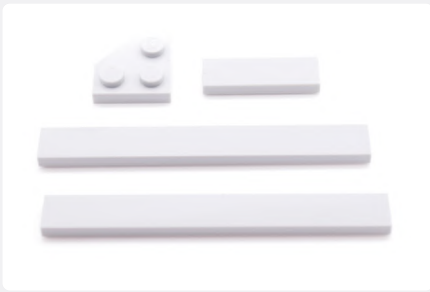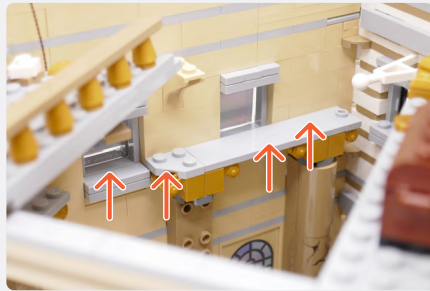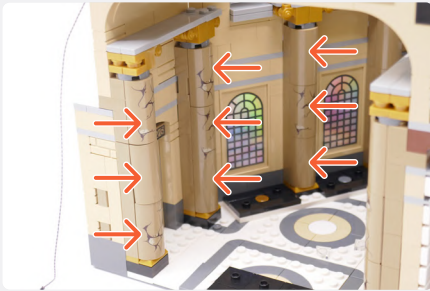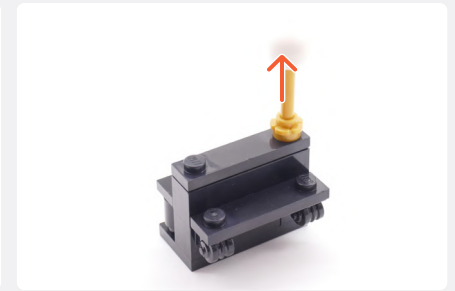
Plate, Round 1x1 with Open Stud – White
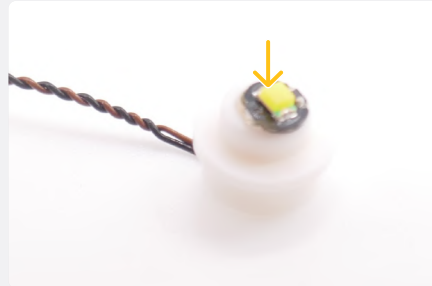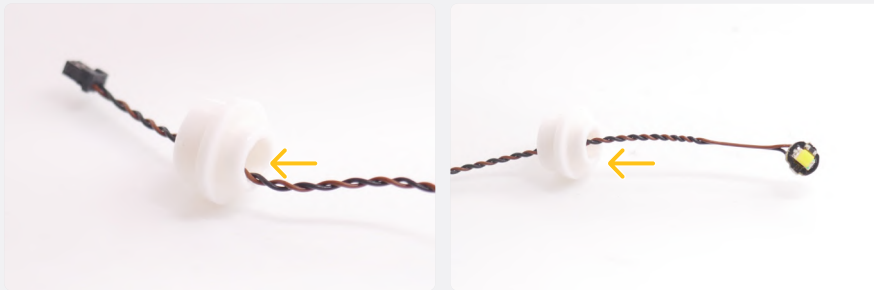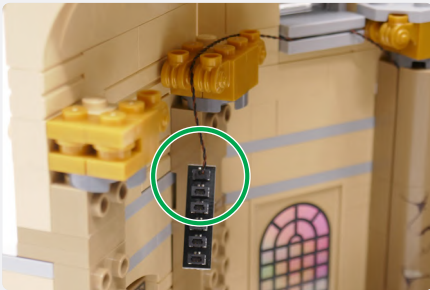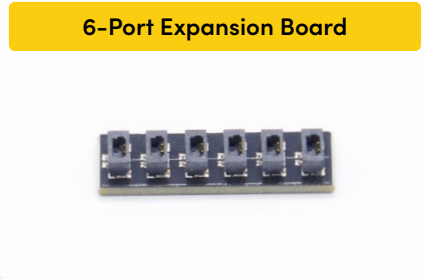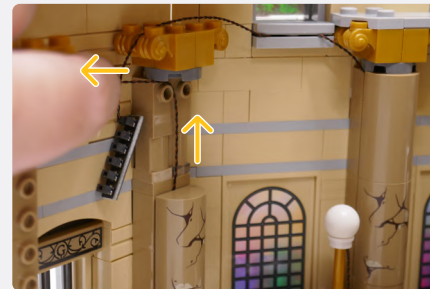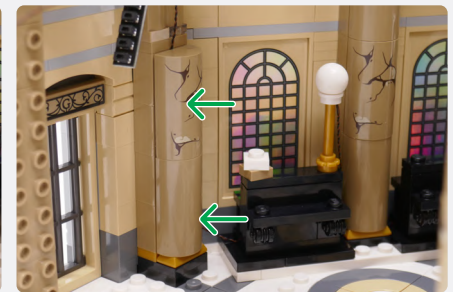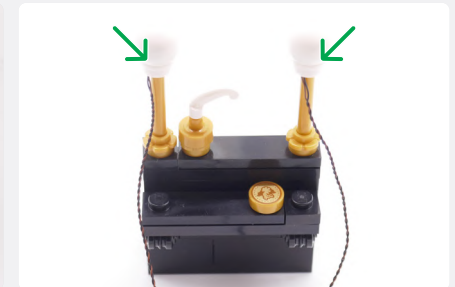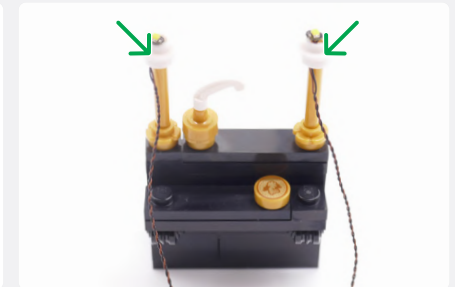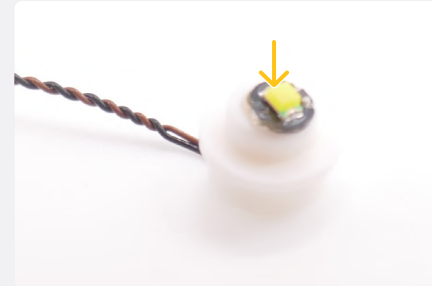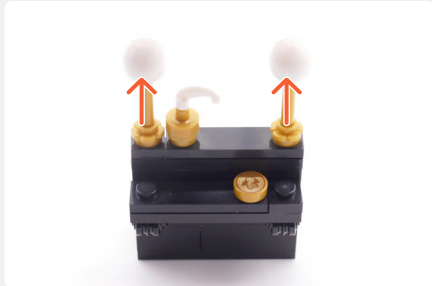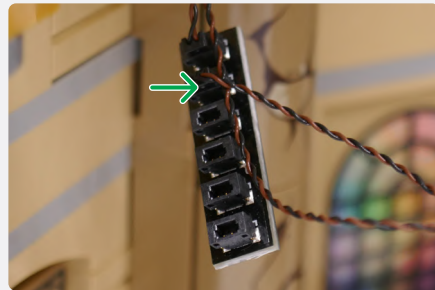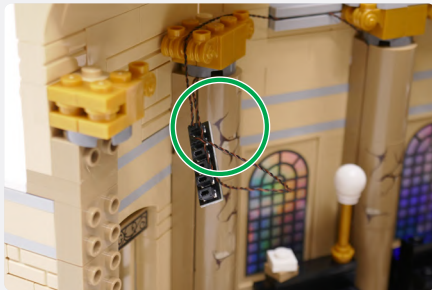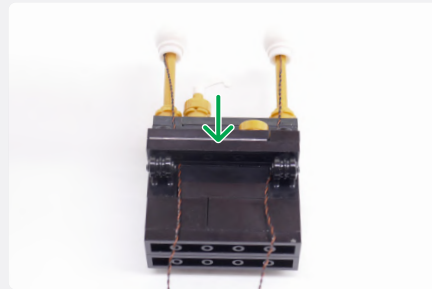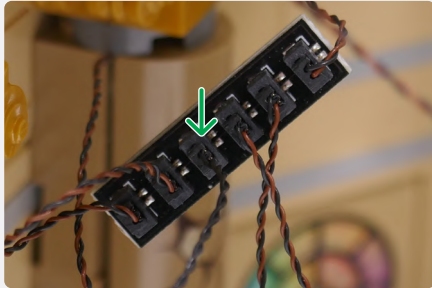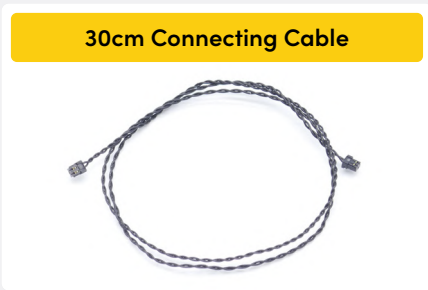
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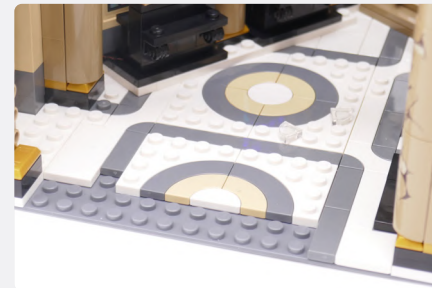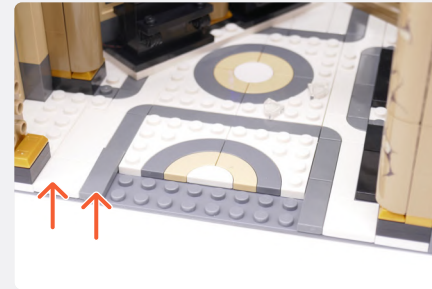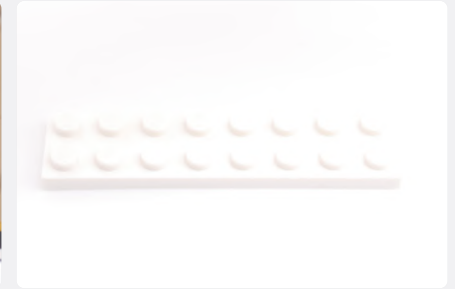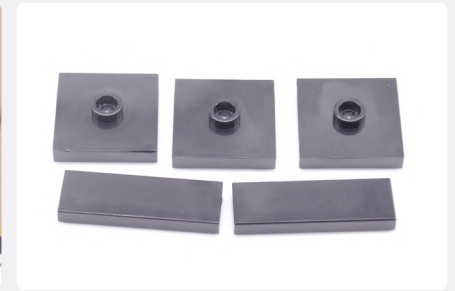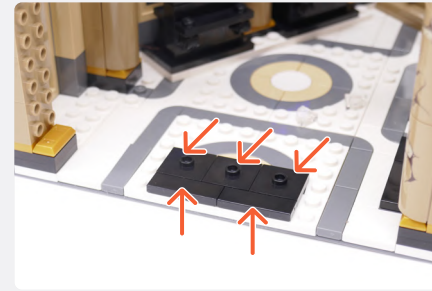
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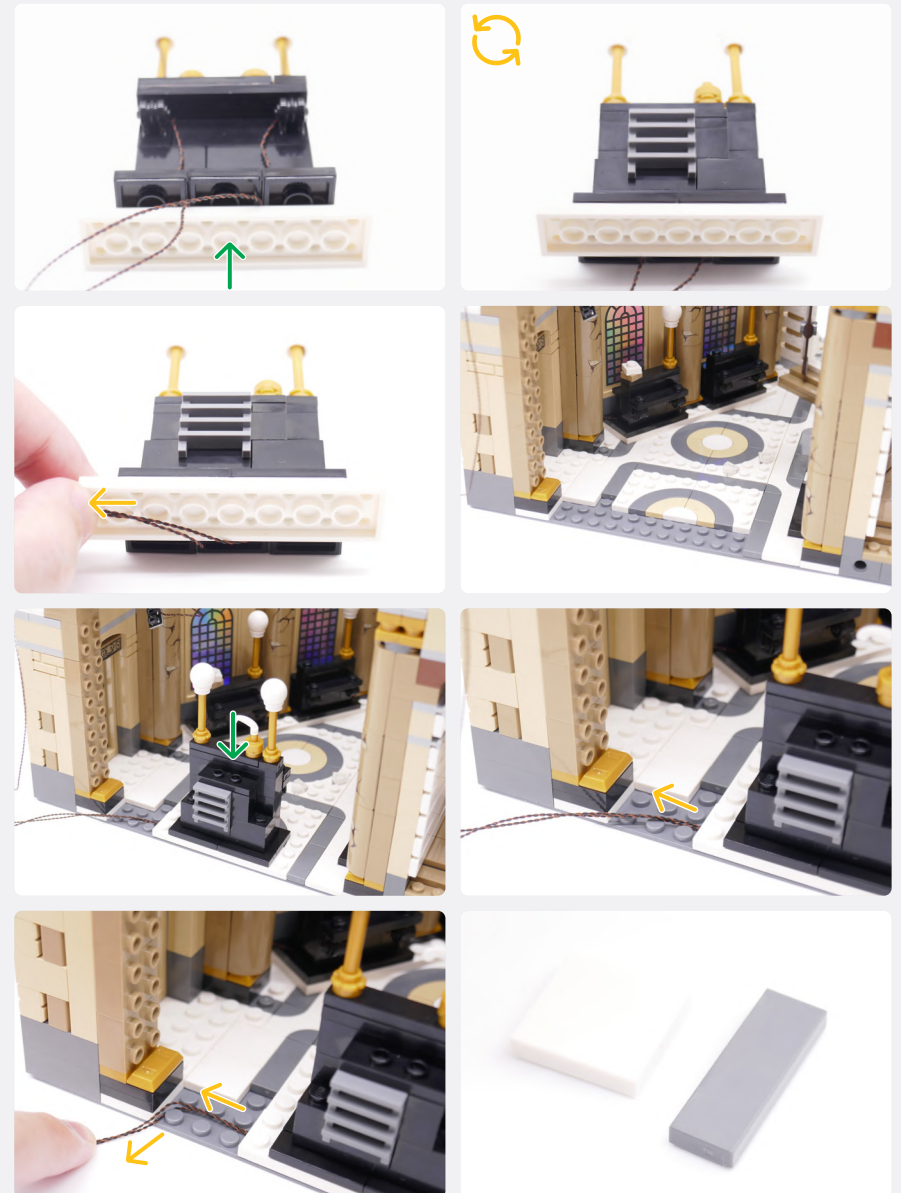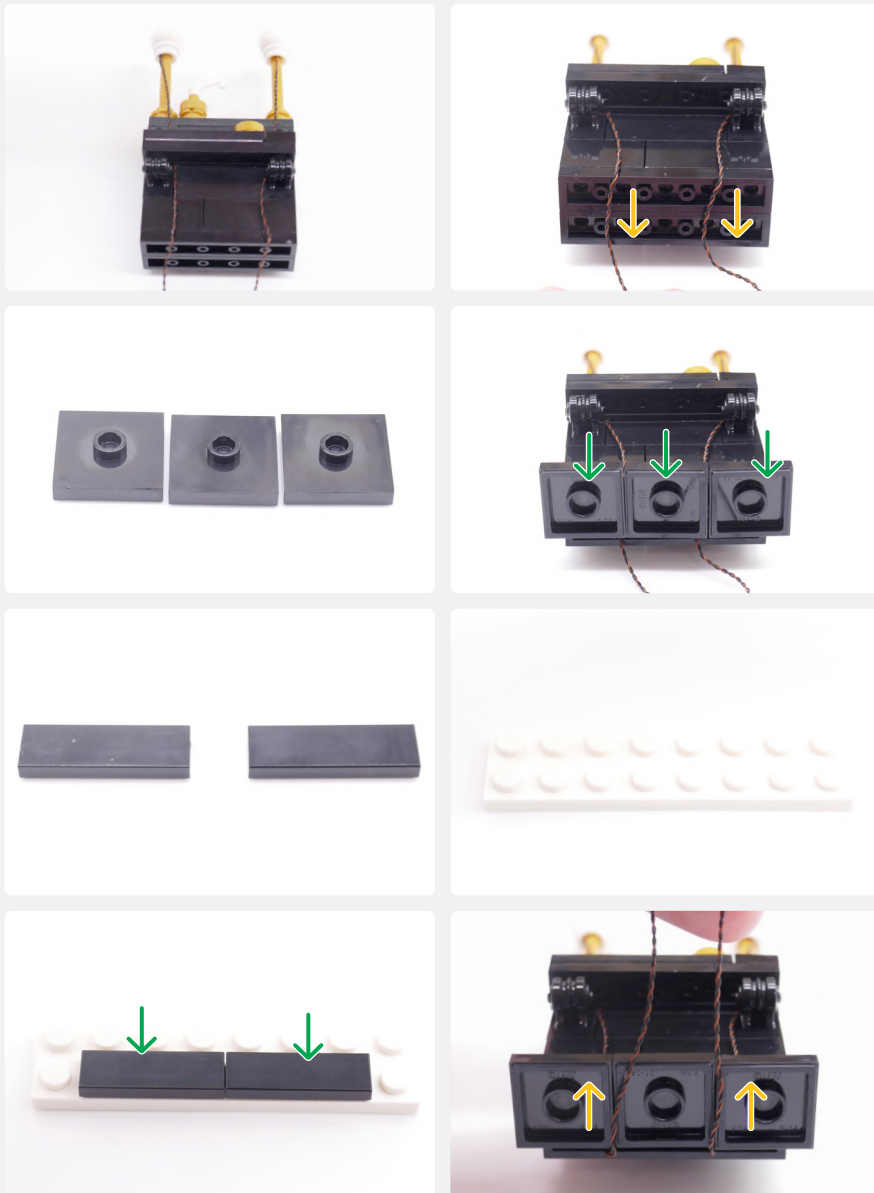
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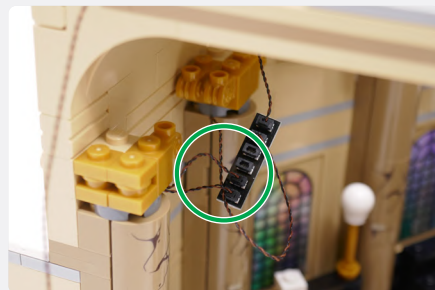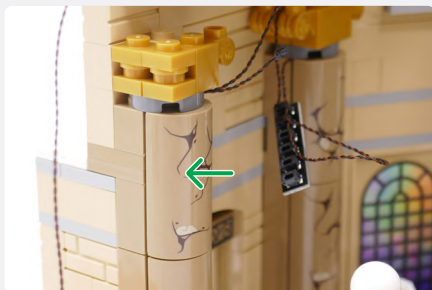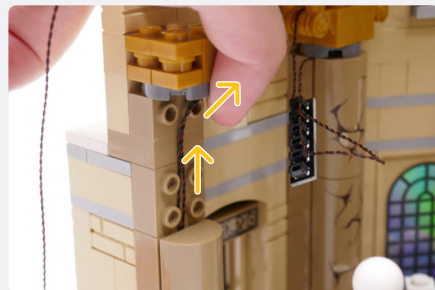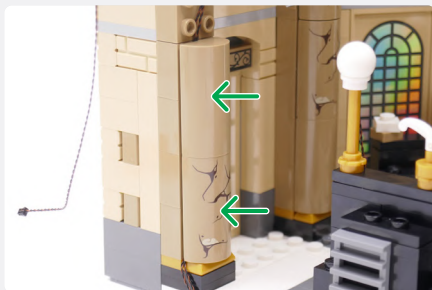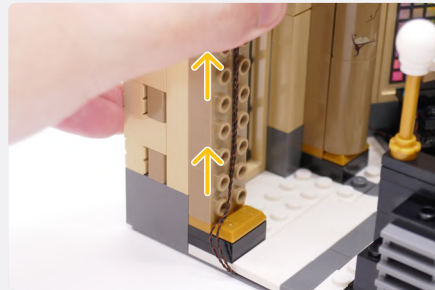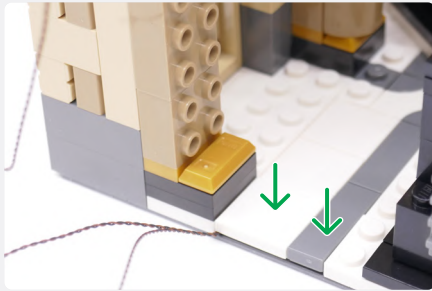
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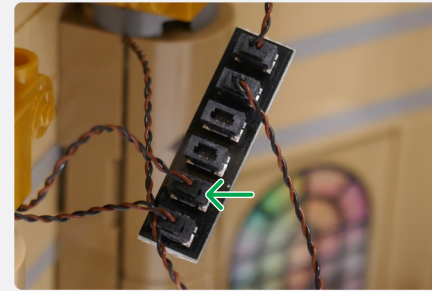
NOTE

Take the cable from the Gold Lamp (from Step 3) and thread it as shown
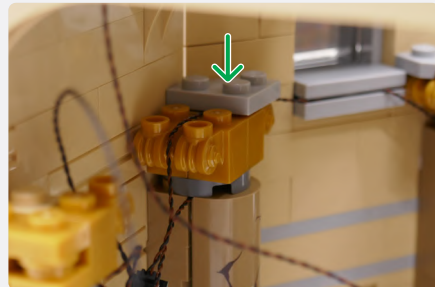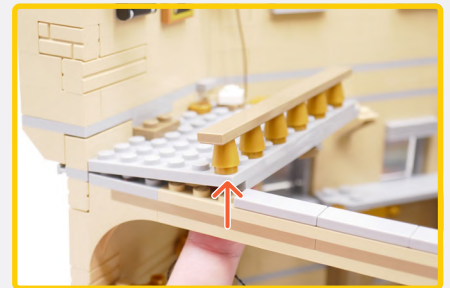
30cm Connecting Cable

15
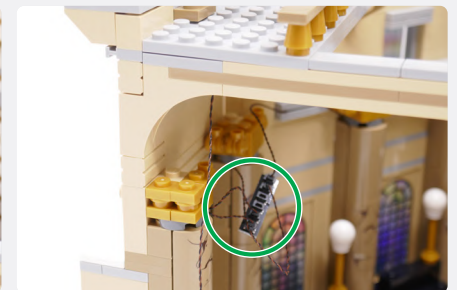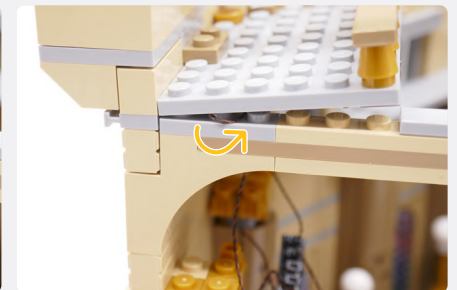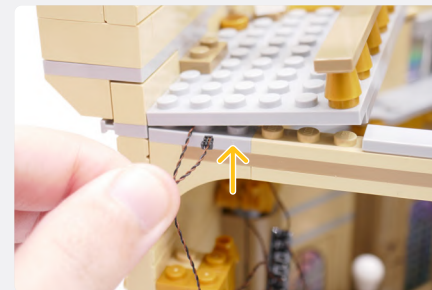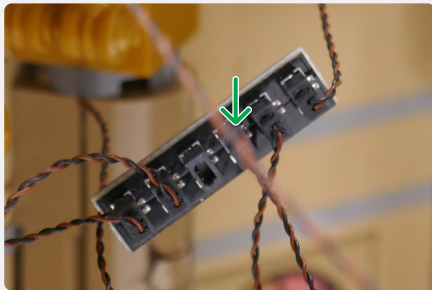
Thread the Bit Light from the Bank Stand (Step 7) between the studs

NOTE

Slightly lift the floor again but ensure the cable from the Gold Lamp is still secured in position
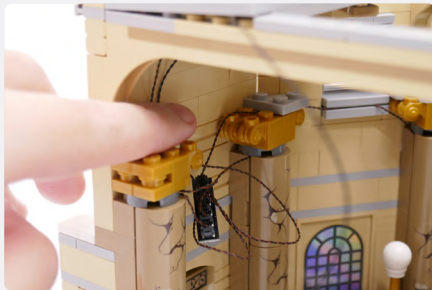
NOTE

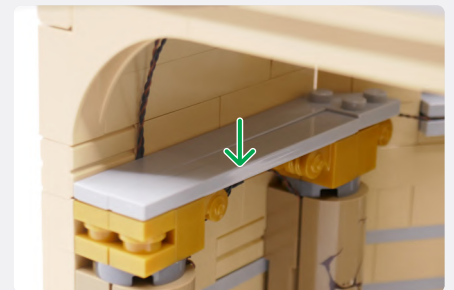Hold the 6-Port Expansion Board in the following position before routing the 30cm Connecting Cable
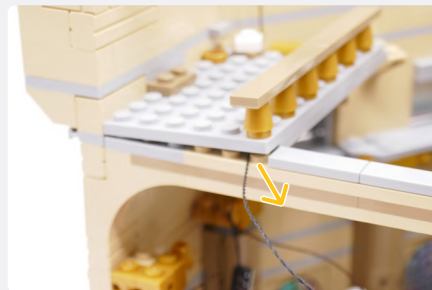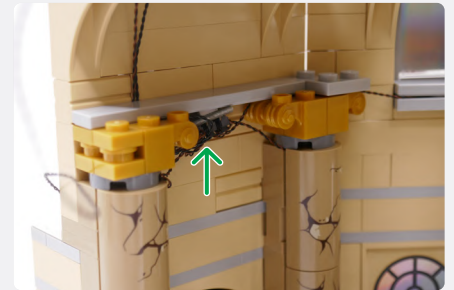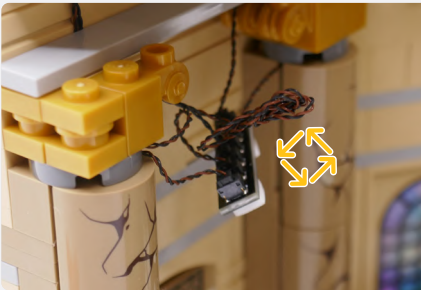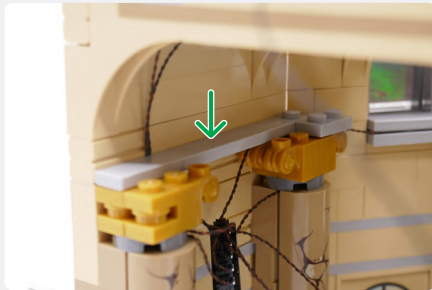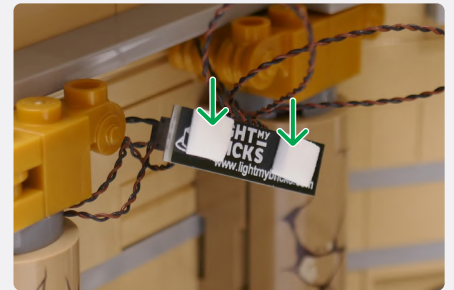
NOTE

Push the Connecting Cable and Bit Light cable (from the Gold Lamp) against the wall to reduce visibility. Ensure the Expansion Board is still in the same postion
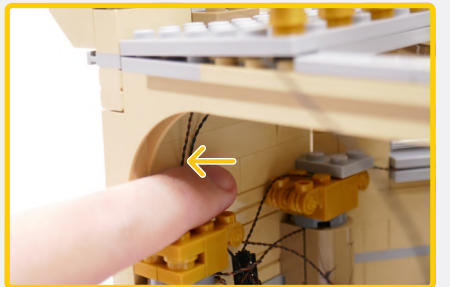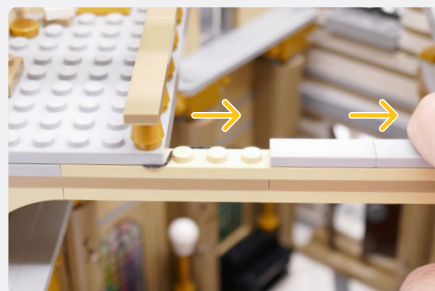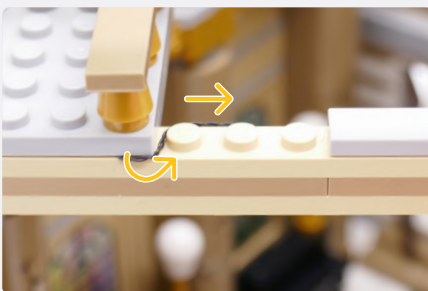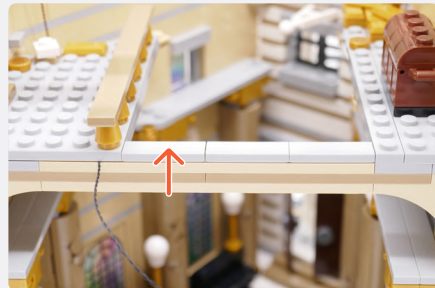
16

2x Adhesive Square

17

NOTE

Thread the Connecting Cable
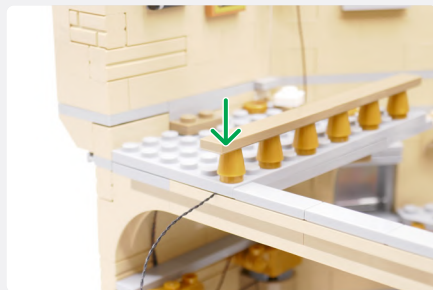
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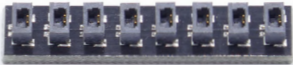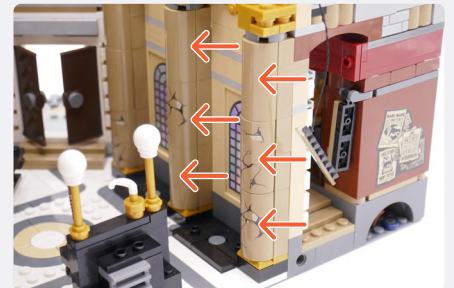
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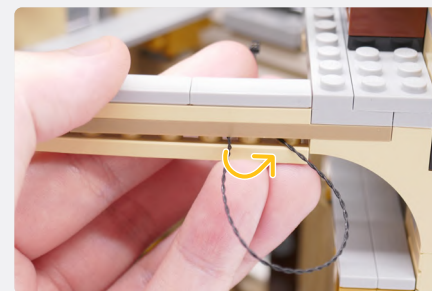
8-Port Expansion Board

18

19
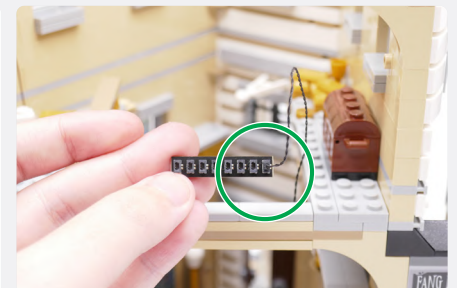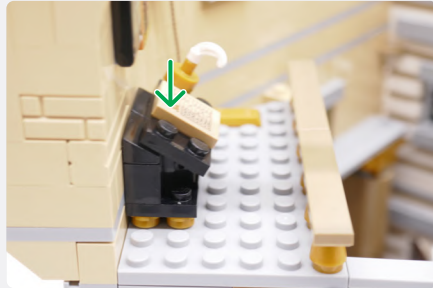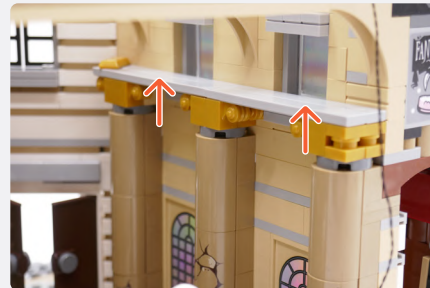
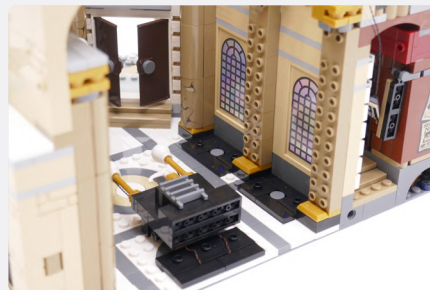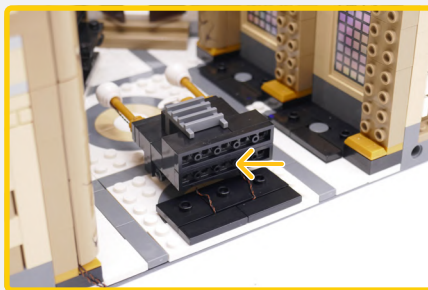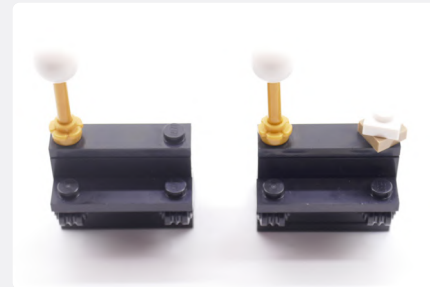**NOTE**

If you are having trouble with this section, you can lay down the following bank stand

White 30cm Bit Light

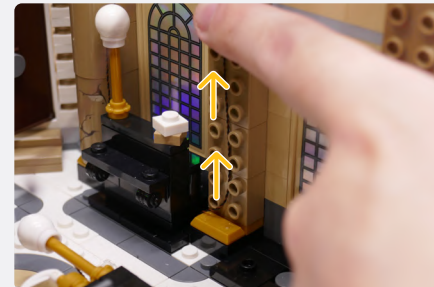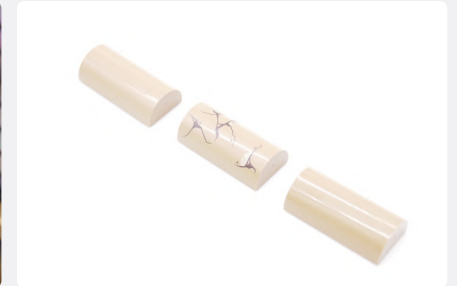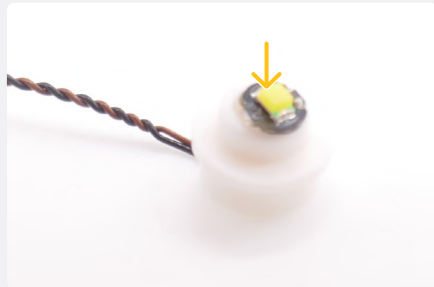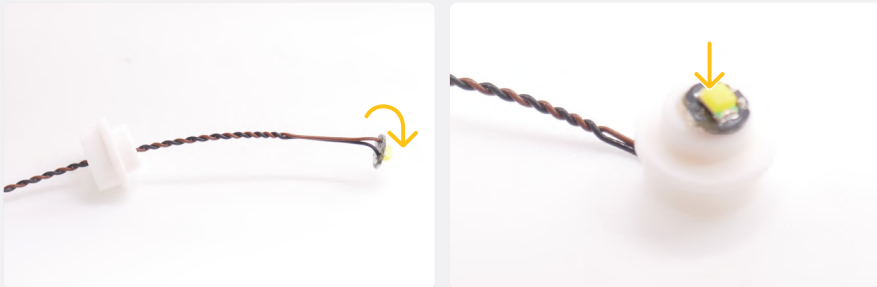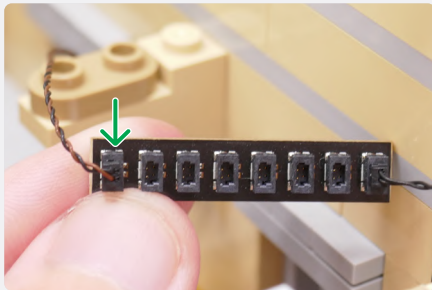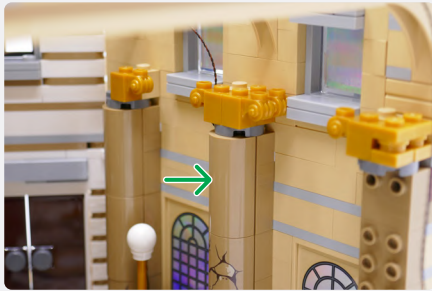**Plate, Round 1x1 with Open Stud – White**

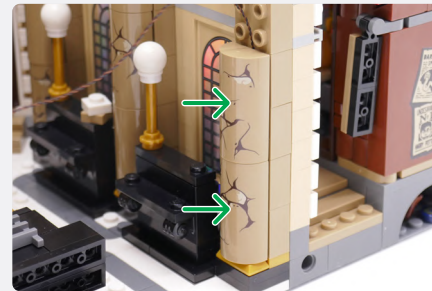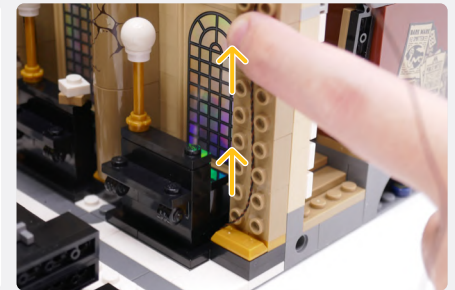**20**

x2

21

22

23

DISCONNECT   CONNECT   DIRECTIONAL   BEND / PIVOT   TURN / FLIP   TWIST / BRAID   POWER ON TEST   NOTE ICON

White 30cm Bit Light

Brick, Round 2x2 with Axle Hole - Trans-Clear
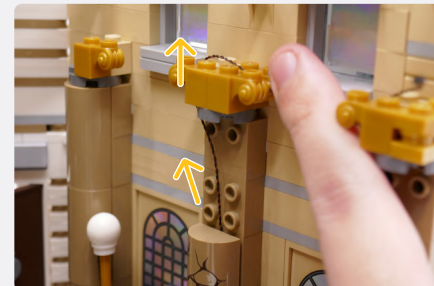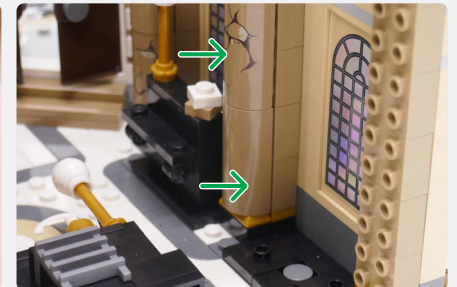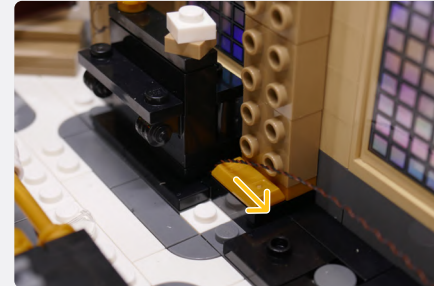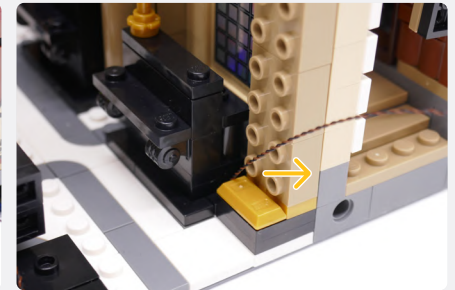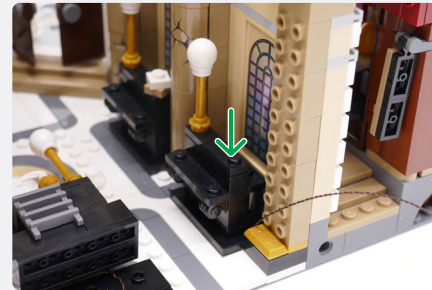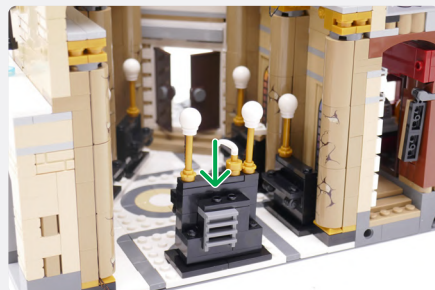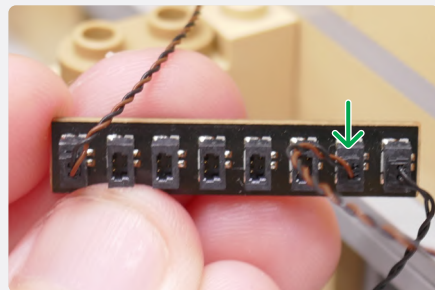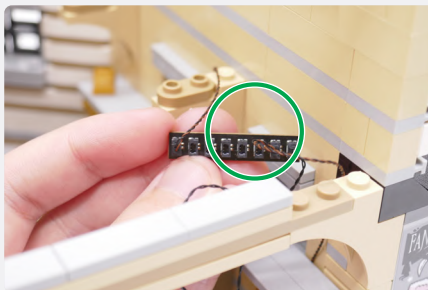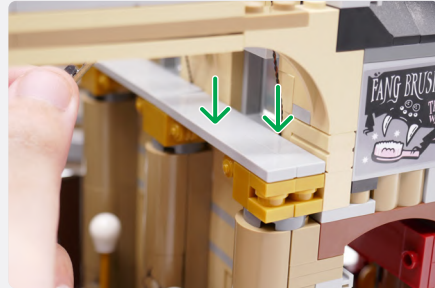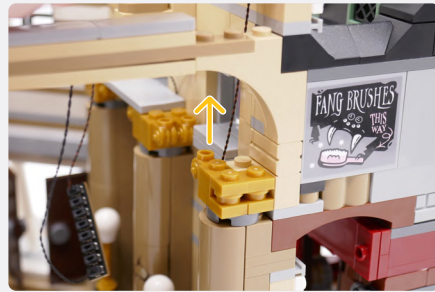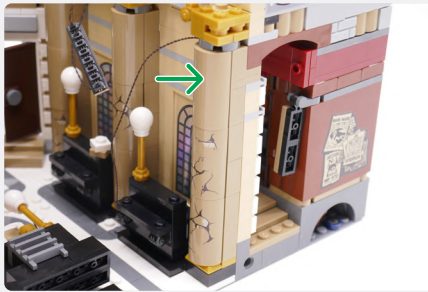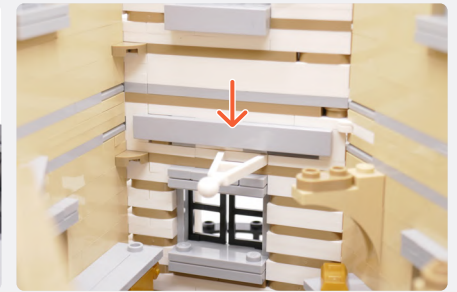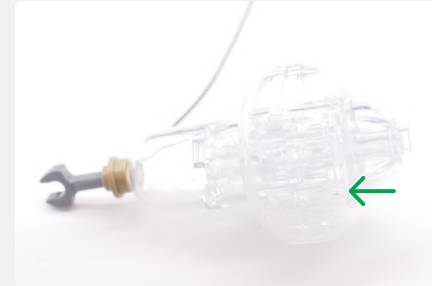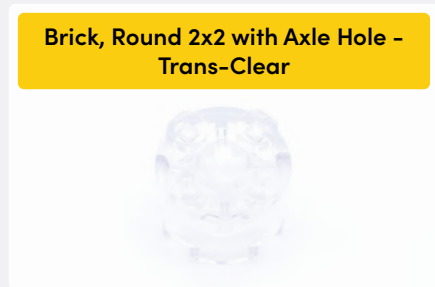
24
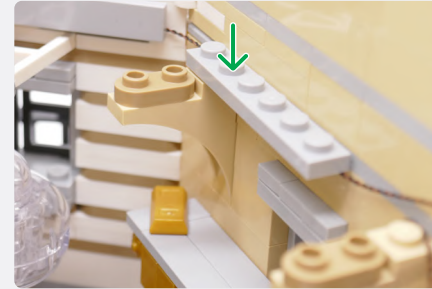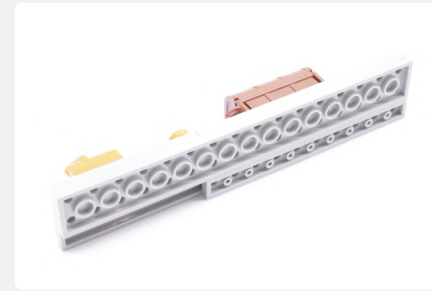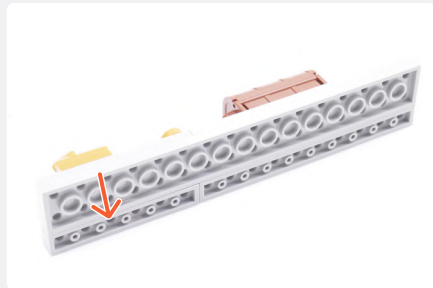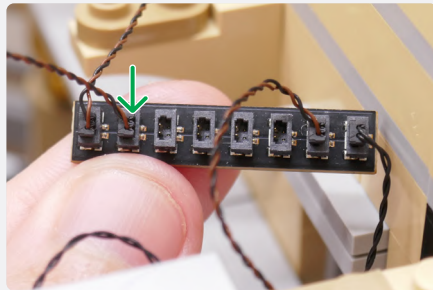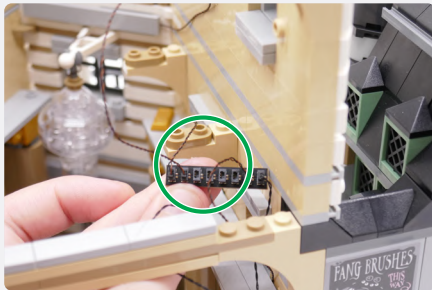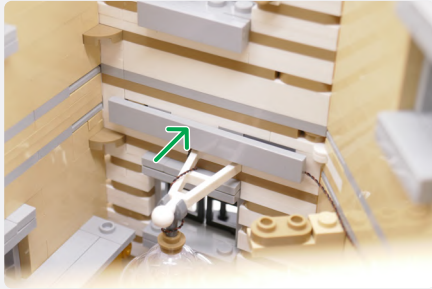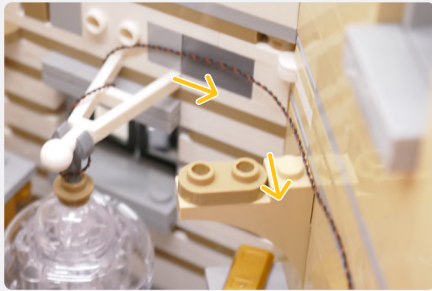
25

White 15cm Bit Light

26

15cm Connecting Cable
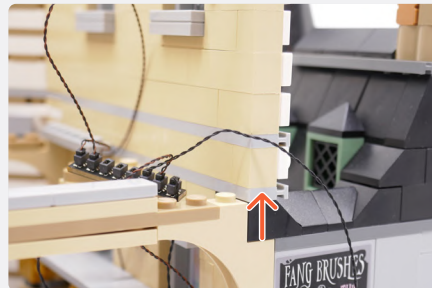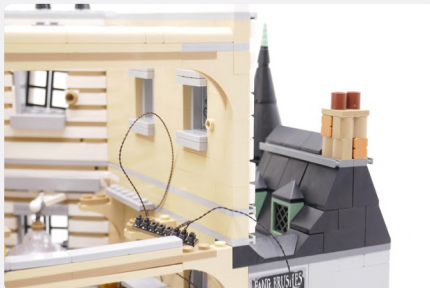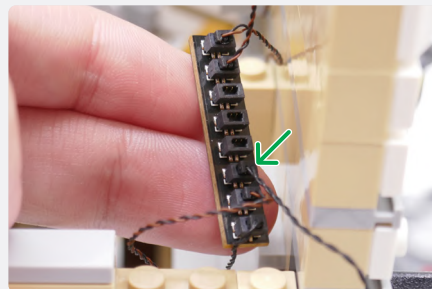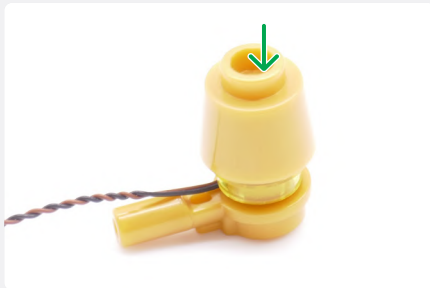
NOTE

Slightly lift the wall as shown

50cm Connecting Cable
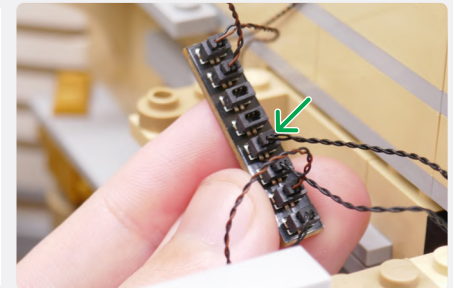
NOTE

Thread both Connecting Cables between the wall as shown
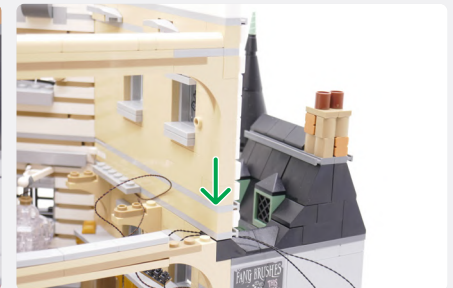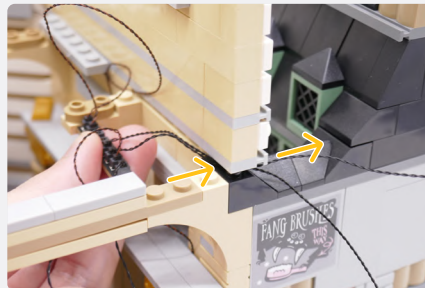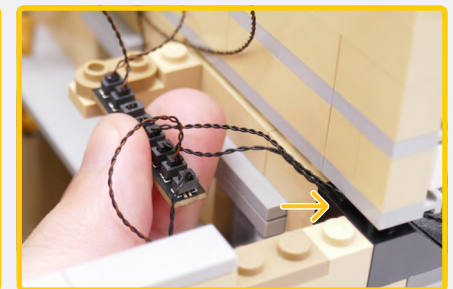
27
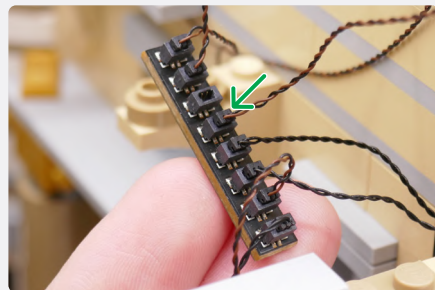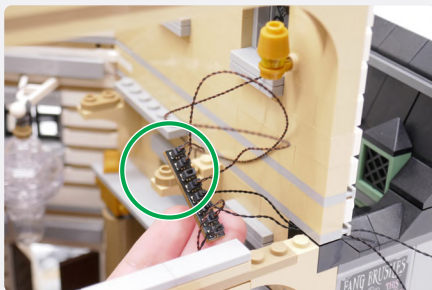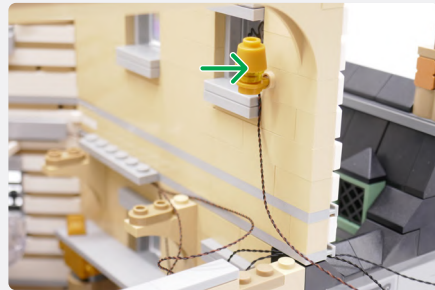
NOTE

Disconnect the USB Power Cable from the base section (Part 1)
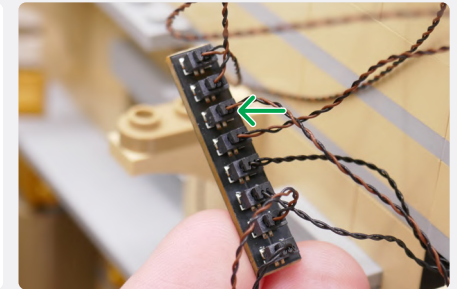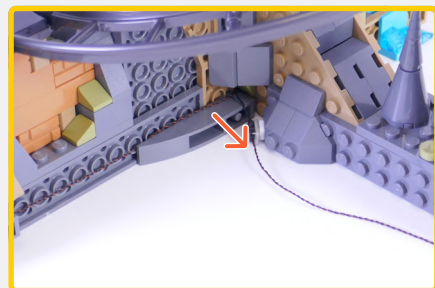
NOTE

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

Disconnect the USB Power Cable

28
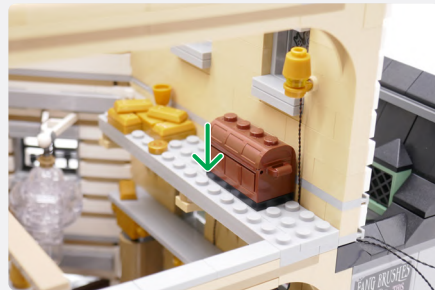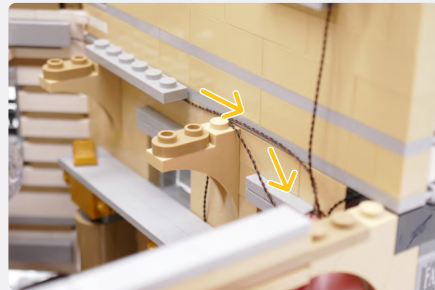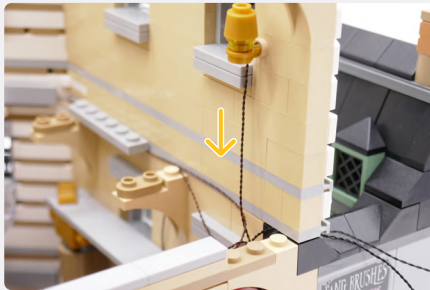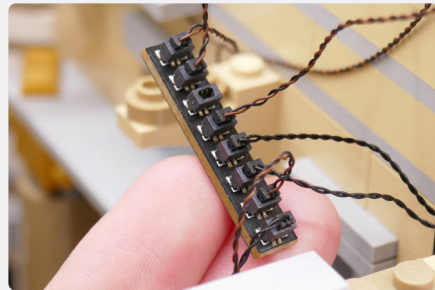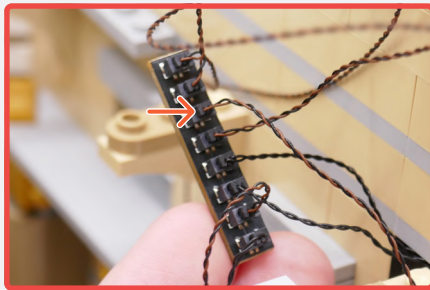
2x Adhesive Square
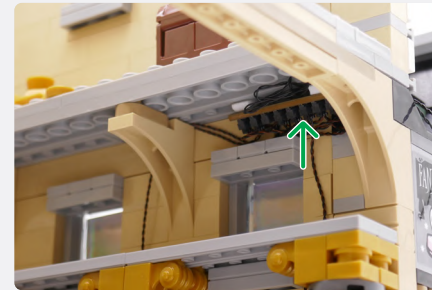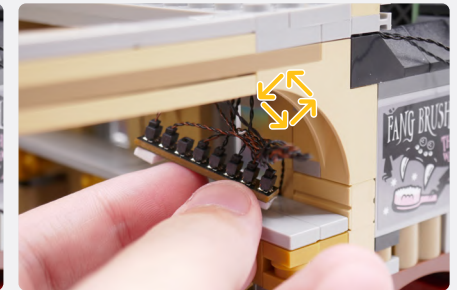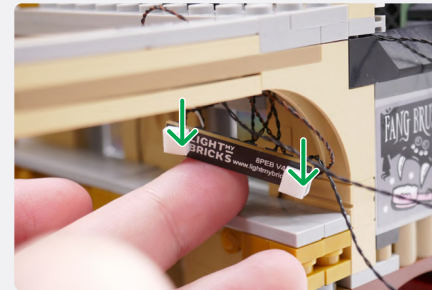
NOTE

Ensure there are no visible dangling cables

NOTE

Use the Plate 1x2 to assist in pinning up any dangling cables

Plate 1x2 – Light Bluish Gray
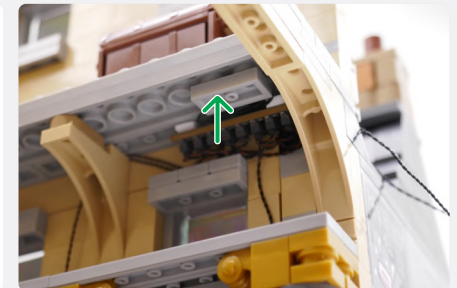
29

NOTE

Take the second Gold Lamp (30cm Bit Light) from Step 3

30
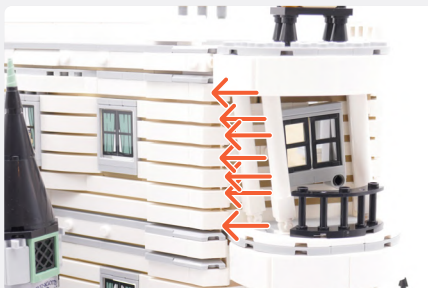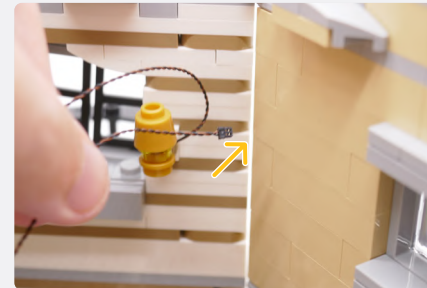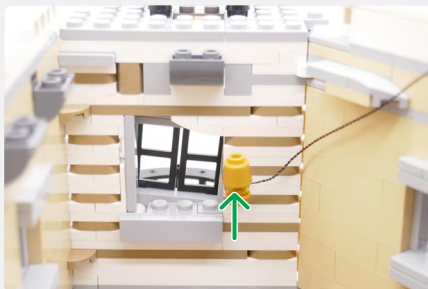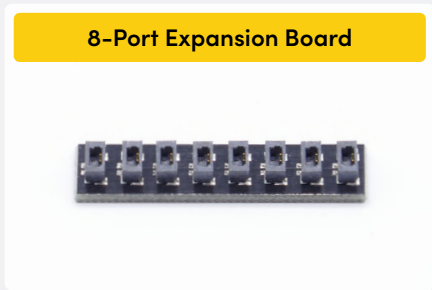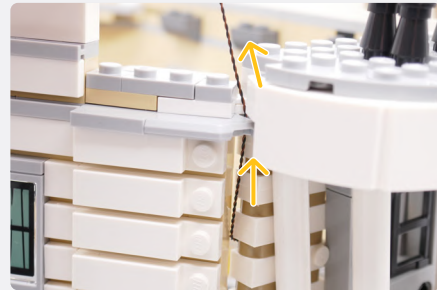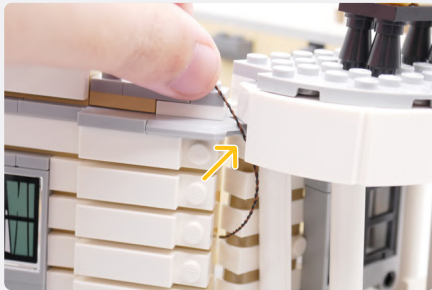
8-Port Expansion Board
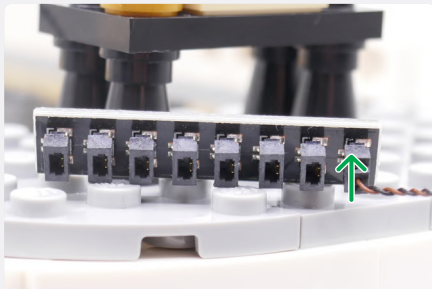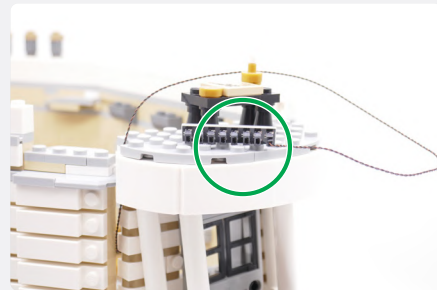
NOTE

Take the 50cm Connecting Cable from Step 26 and route it as shown

31

32

White 30cm Bit Light

Plate, Round 1x1 with Open Stud – Black

Arm Skeleton, Bent with Clips at 90 degrees (Vertical Grip) – Black

Plate, Round 1x1 with Bar Handle – Black

33

2-Port Expansion Board	5cm Connecting Cable
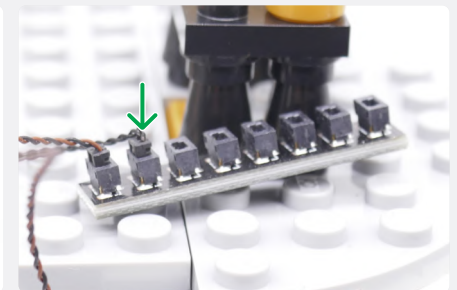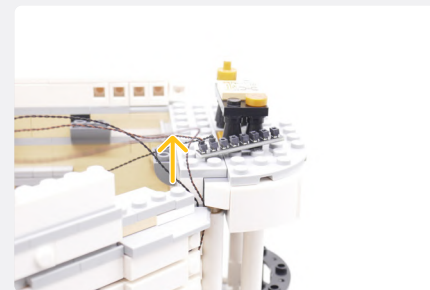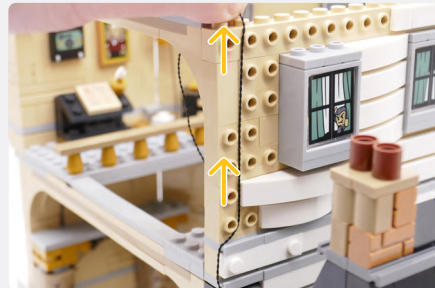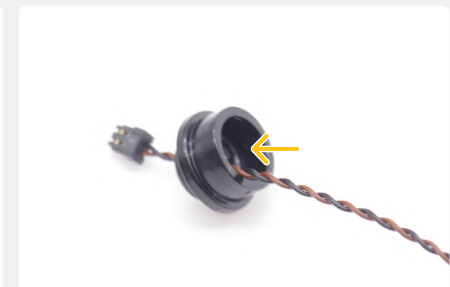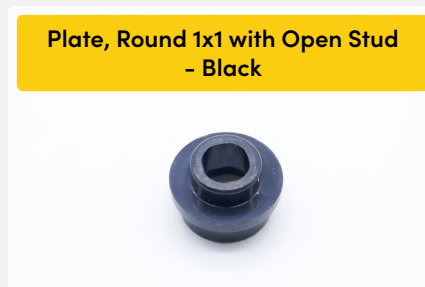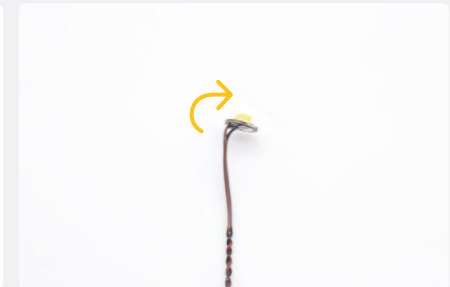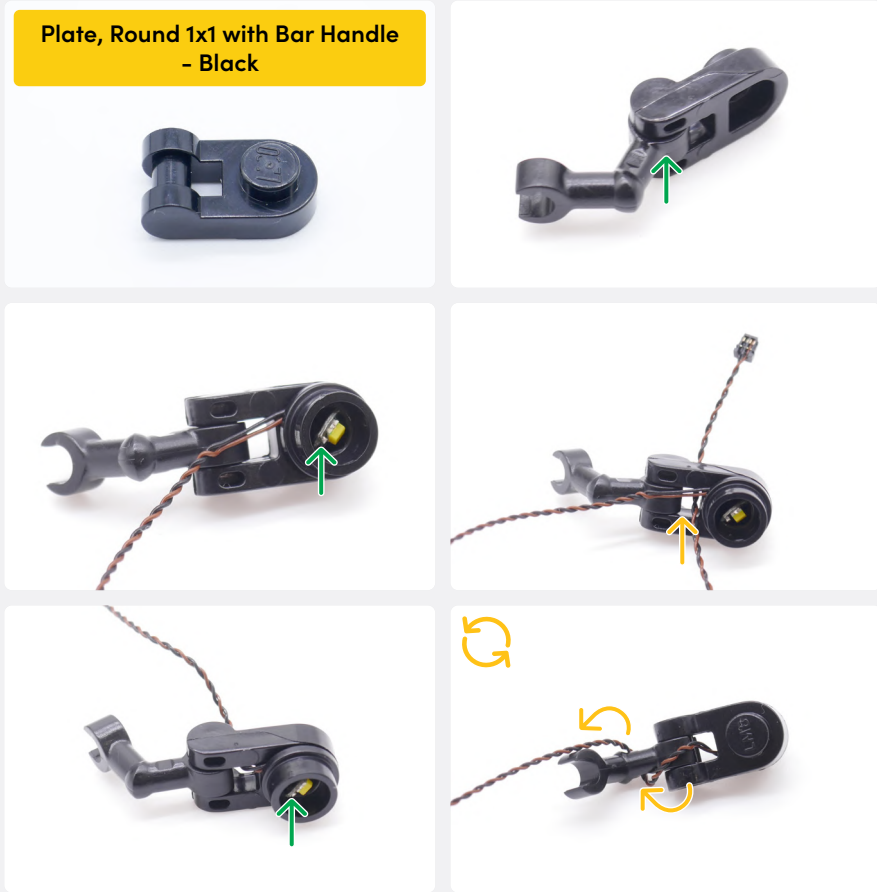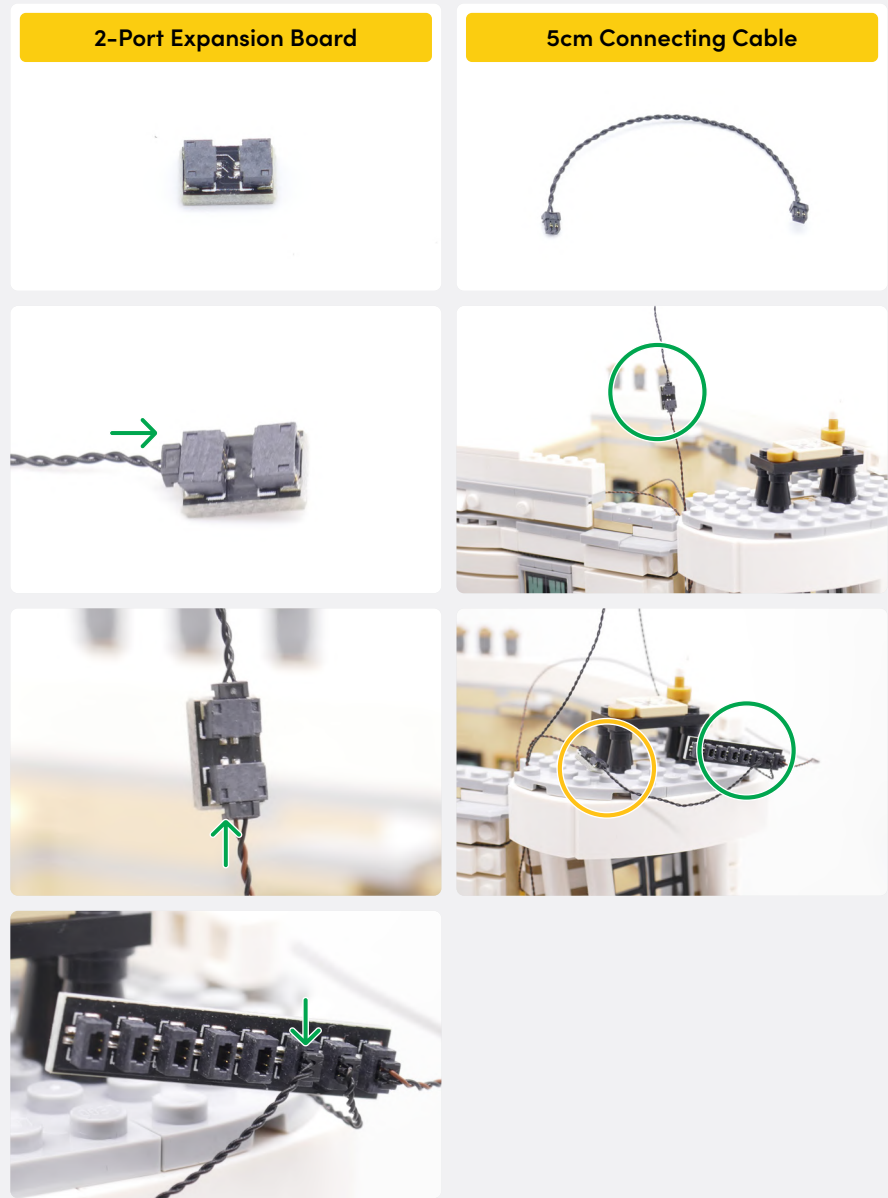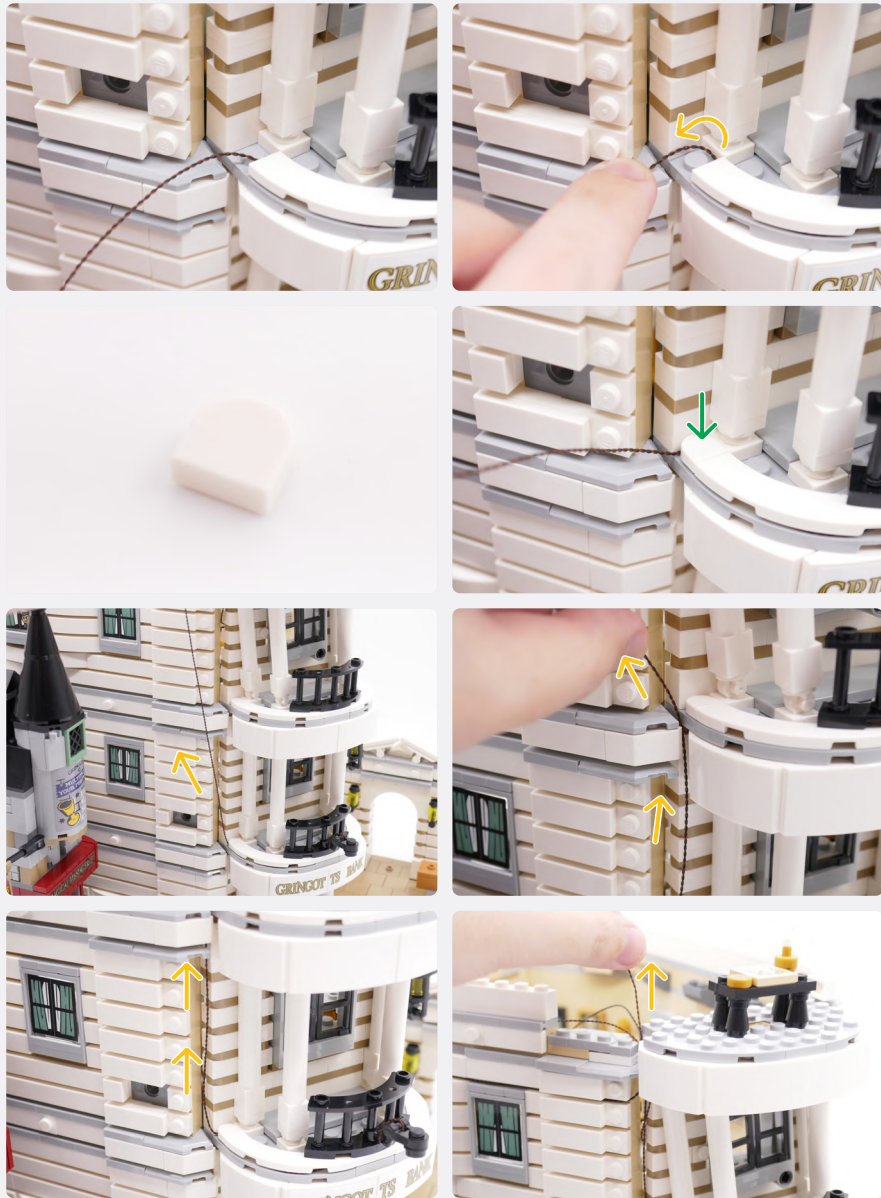
34

White 30cm Bit Light

Plate, Round 1x1 with Open Stud – Black

Brick 1x2 – Black

x2

35

36

37

Plate, Round 1x1 – Black

White 30cm Bit Light

38

39
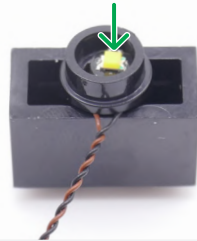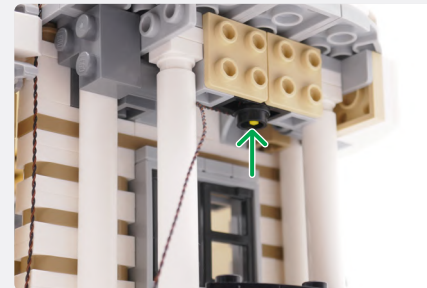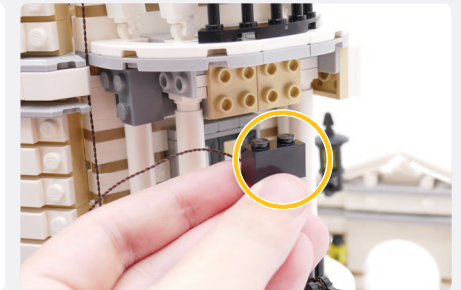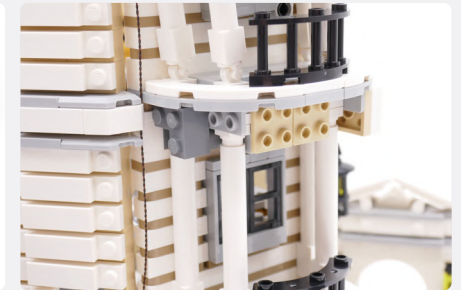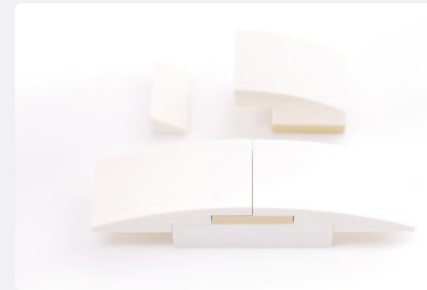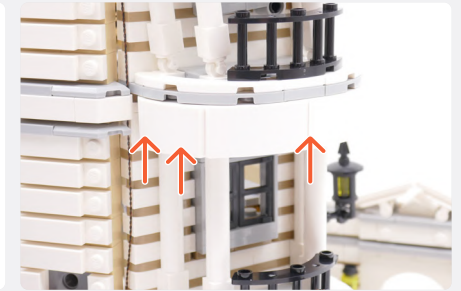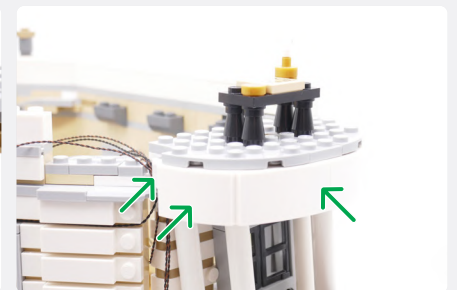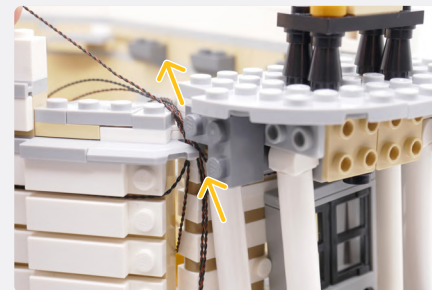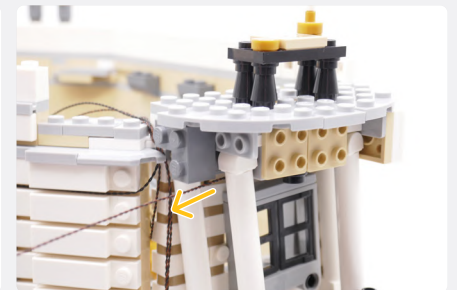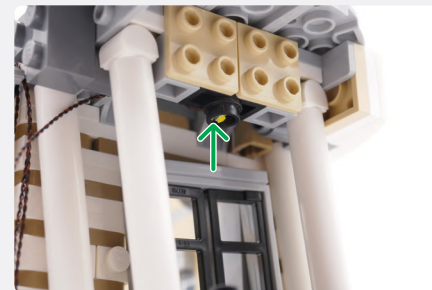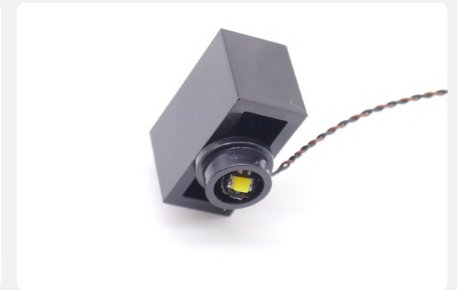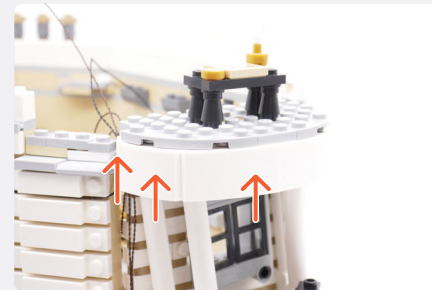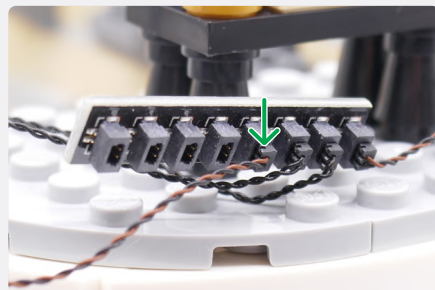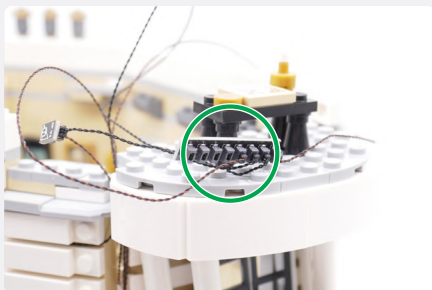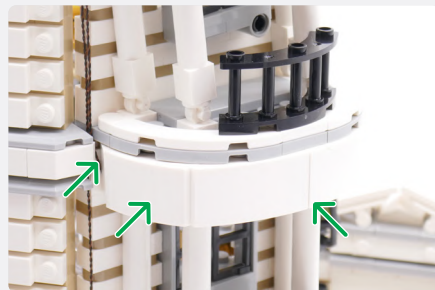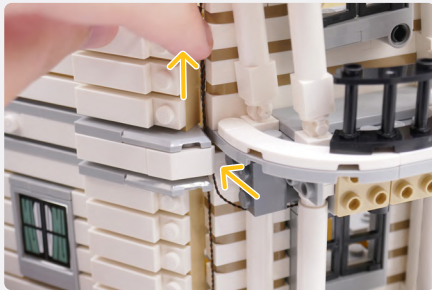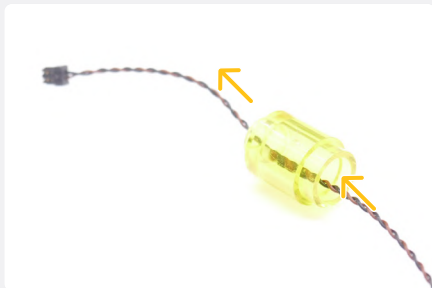
NOTE

Connect both loose Bit Lights to the Expansion Board
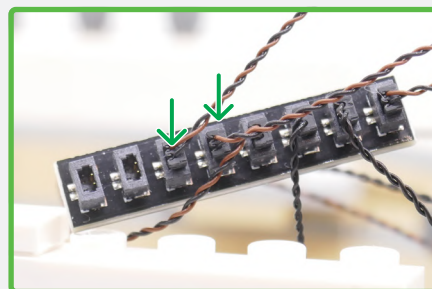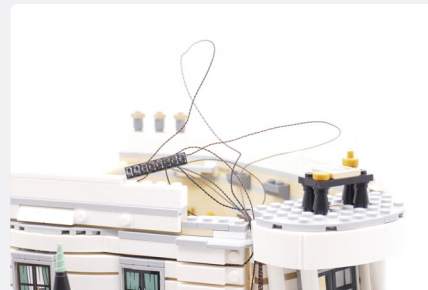
NOTE

Use the LEGO Removal Tool to assist in pushing the cables

40

DISCONNECT   CONNECT   DIRECTIONAL   BEND / PIVOT   TURN / FLIP   TWIST / BRAID   POWER ON TEST   NOTE ICON

41

42

White 30cm Bit Light

NOTE

Slightly lift the following section

43

x2
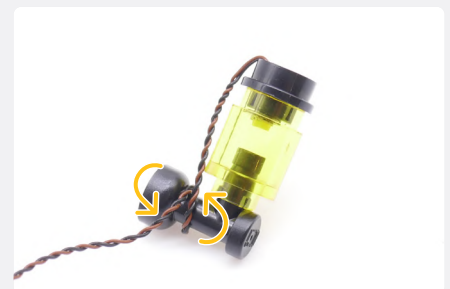
NOTE

Slightly split the wall to create a gap

NOTE

Slightly split the wall to create a gap
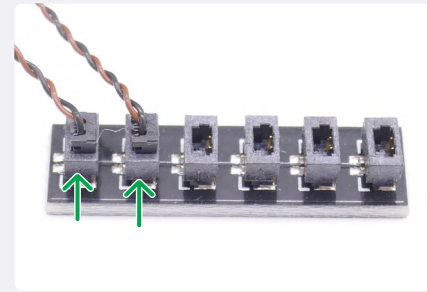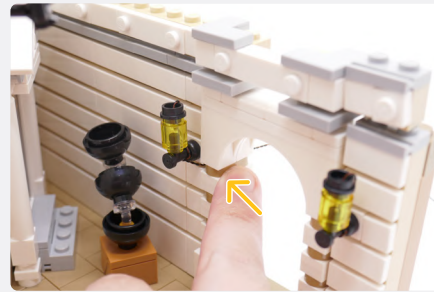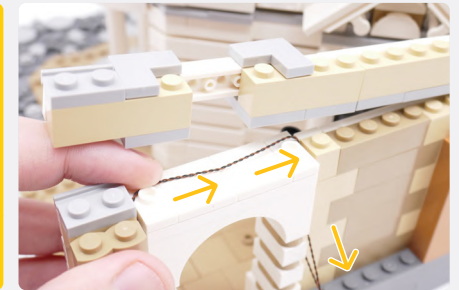
44
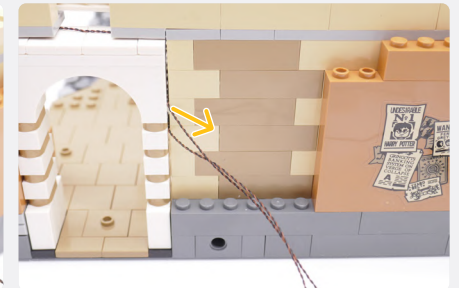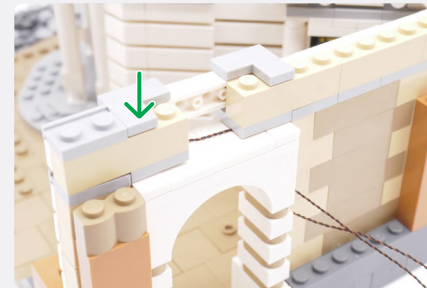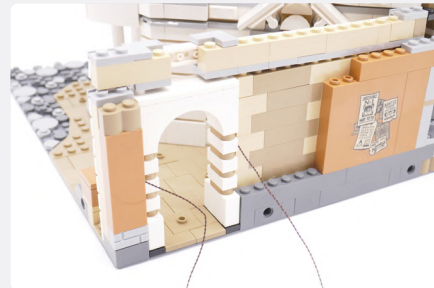
6-Port Expansion Board
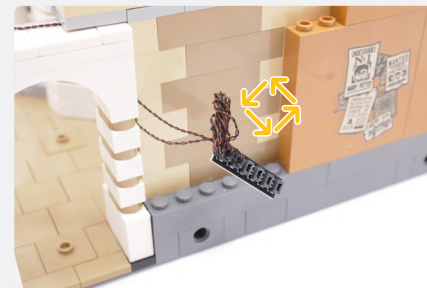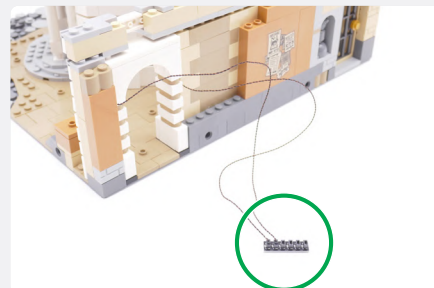
50cm Connecting Cable
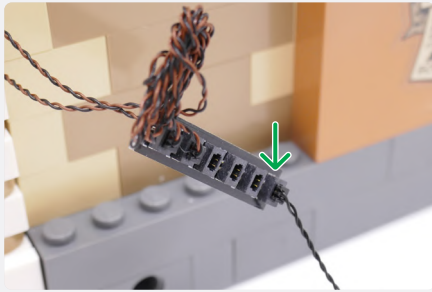
NOTE

Hold the Expansion Board in the following position as you route the 50cm Connecting Cable

45

46

47

DISCONNECT   CONNECT   DIRECTIONAL   BEND / PIVOT   TURN / FLIP   TWIST / BRAID   POWER ON TEST   NOTE ICON
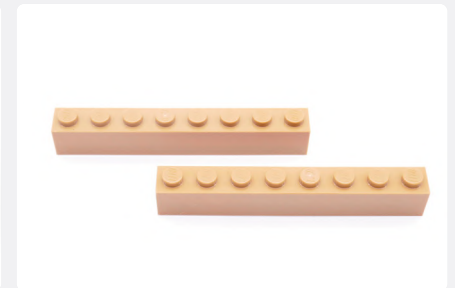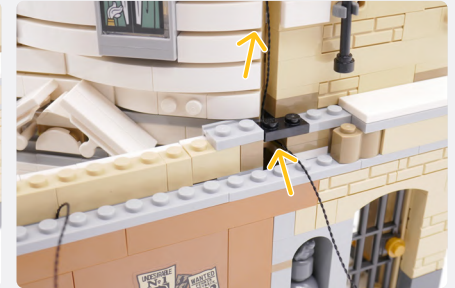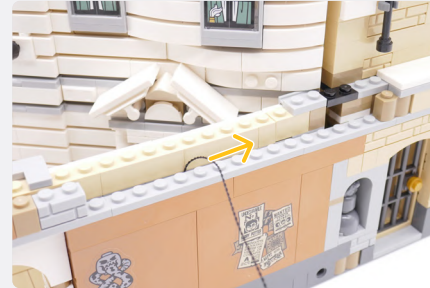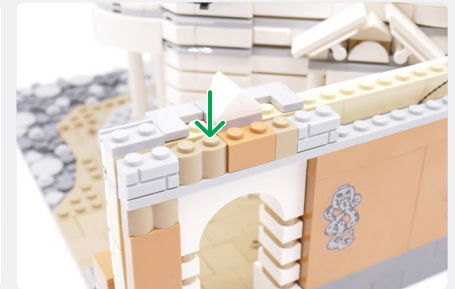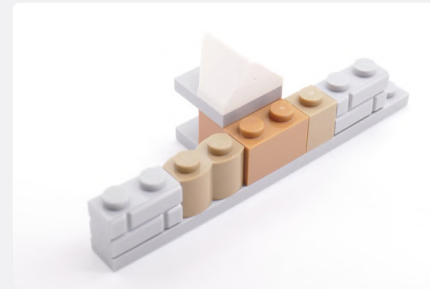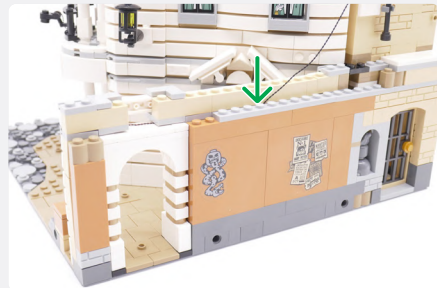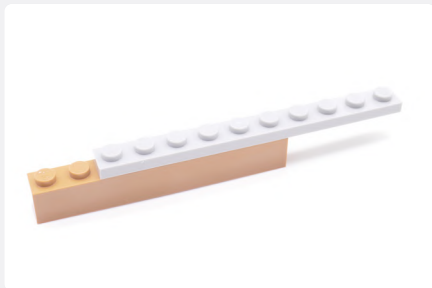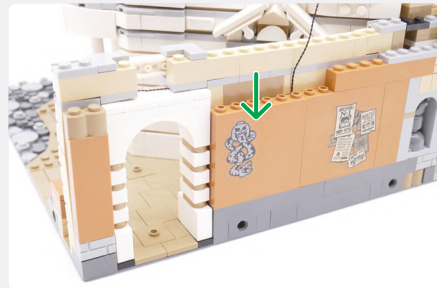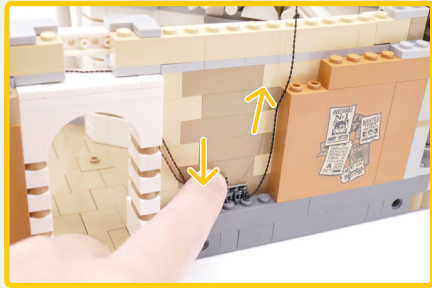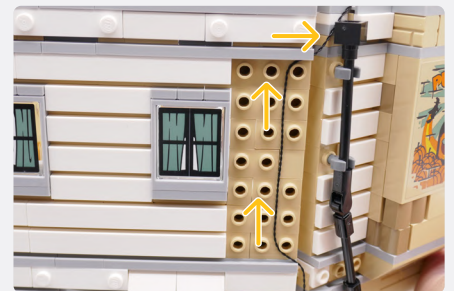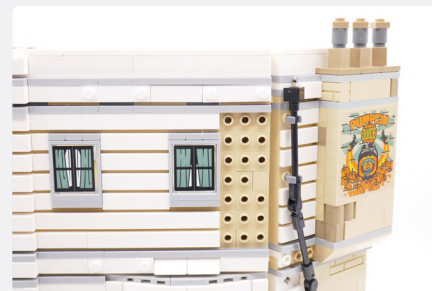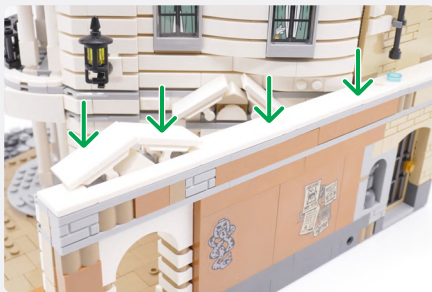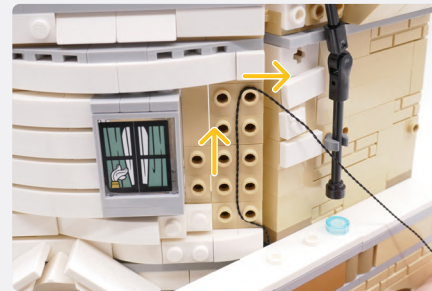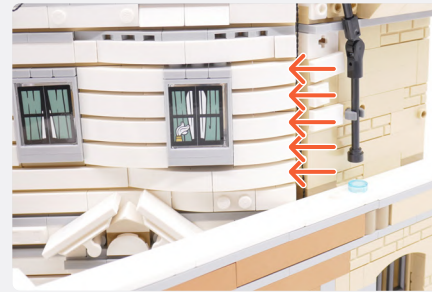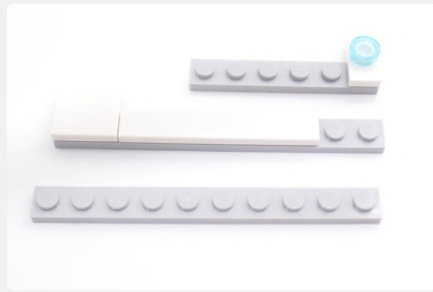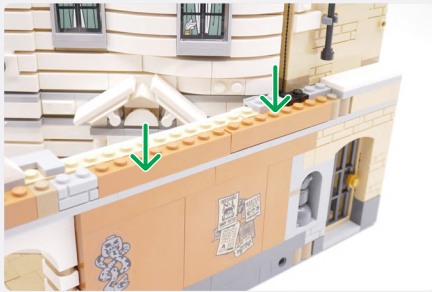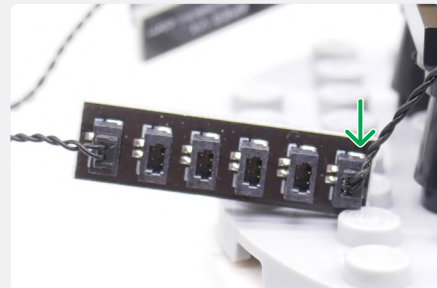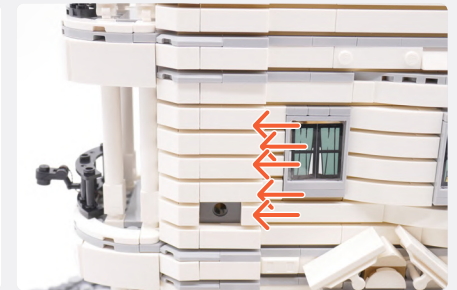
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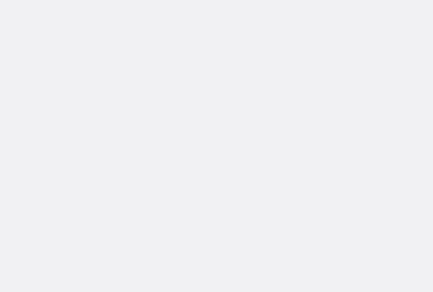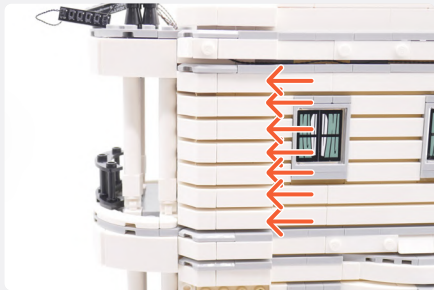
White 30cm Bit Light
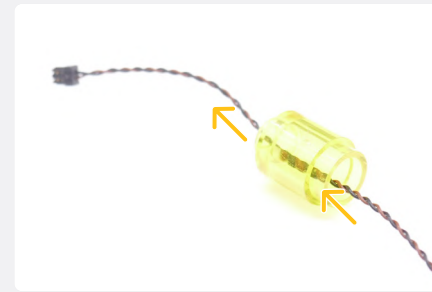
Plate, Round 1x1 – Black
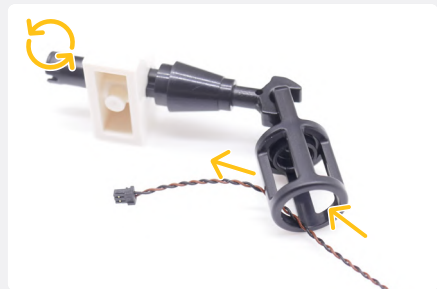
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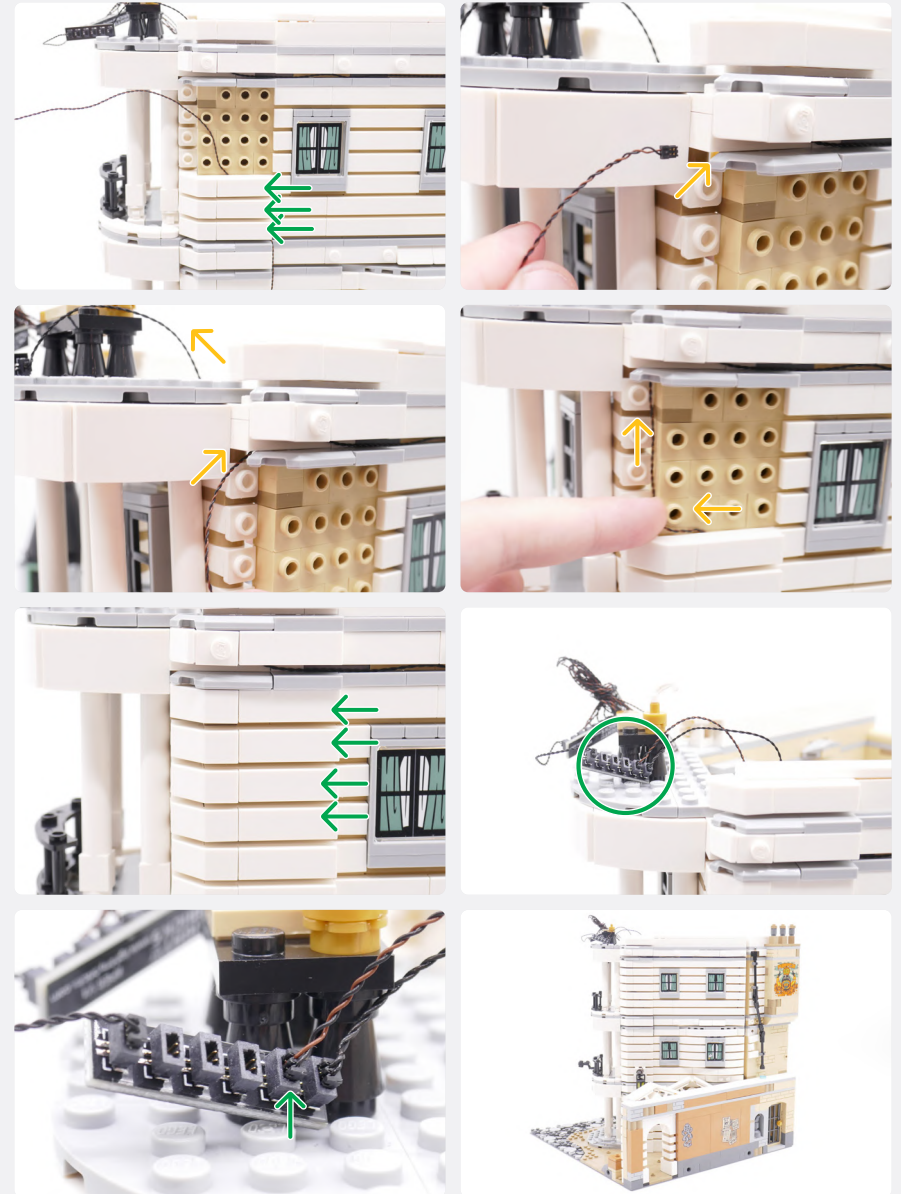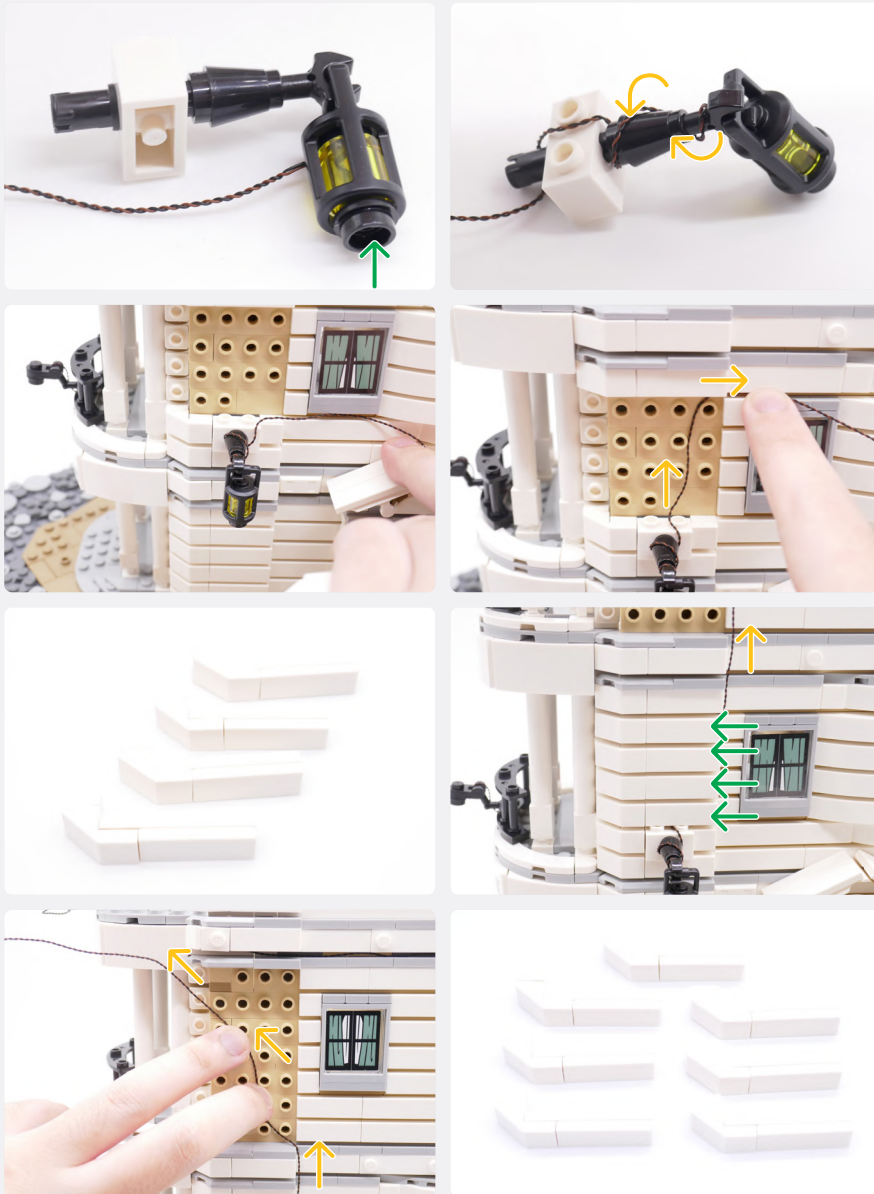
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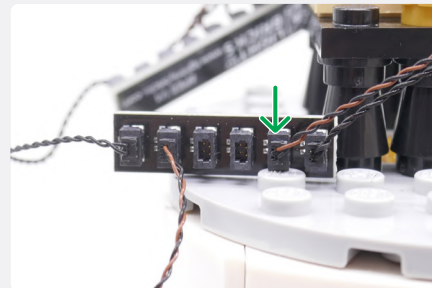
NOTE

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

Disconnect the USB Power Cable
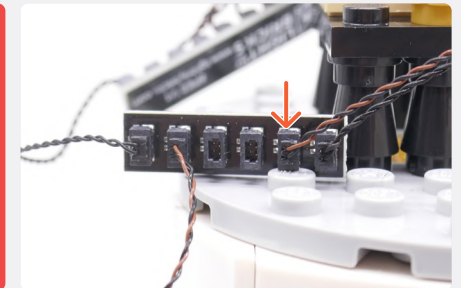
51

NOTE

Take the loose 15cm Connecting Cable

6-Port Expansion Board

52

Warm White 15cm Large Bit Light

Plate, Round 1x1 with Open Stud - Black

→ DISCONNECT → CONNECT → DIRECTIONAL ↪ BEND / PIVOT ↻ TURN / FLIP ⤧ TWIST / BRAID ☀ POWER ON TEST ✎ NOTE ICON

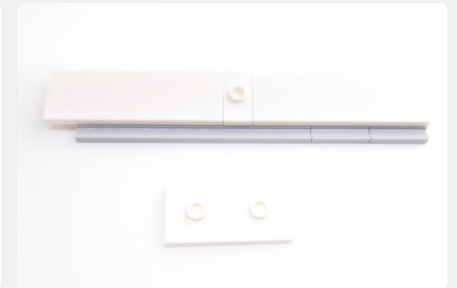**53**

x2

15cm Connecting Cable

NOTE

Hold the Expansion Board in the following position

NOTE

While holding the Expansion Board in the following position, simultaneously pull the Bit Light Cable up and pull the Connecting Cable down

54

Warm White 15cm Large Bit Light
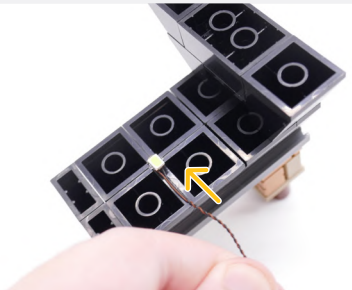
Plate, Round 2x2 with Rounded Bottom (Boat Stud) - Trans-Clear
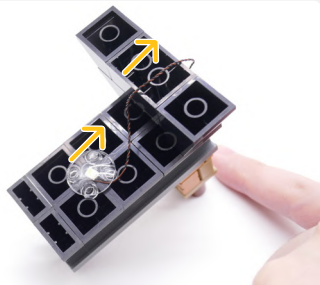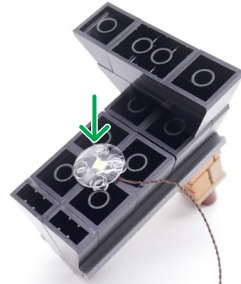
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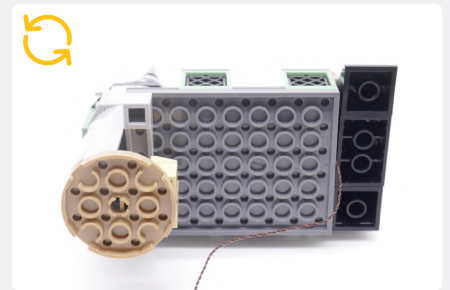
56

White 15cm Bit Light

Plate, Round 1x1 with Open Stud - Black

57

Plate, Round 1x1 with Bar Handle - Black

Arm Skeleton, Bent with Clips (Horizontal Grip) - Black
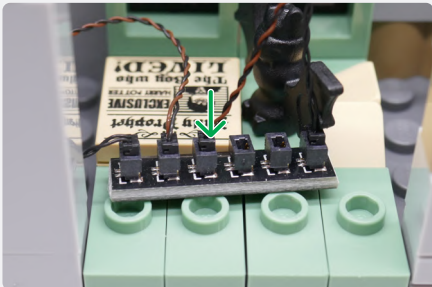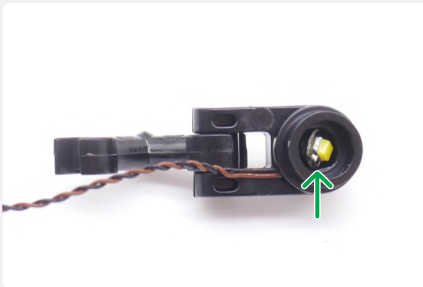
58

NOTE

Carefully rest the top section as shown

59

60

DISCONNECT   CONNECT   DIRECTIONAL   BEND / PIVOT   TURN / FLIP   TWIST / BRAID   POWER ON TEST   NOTE ICON
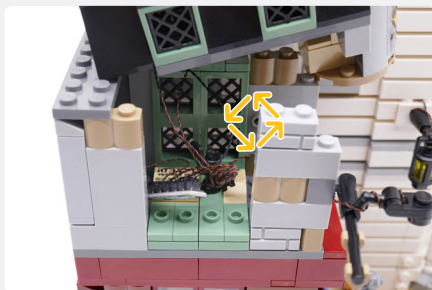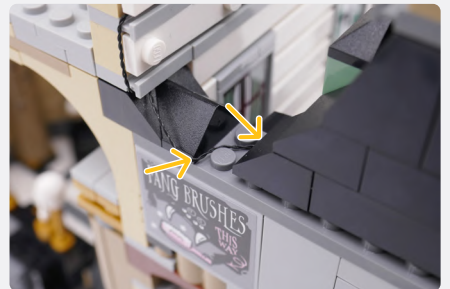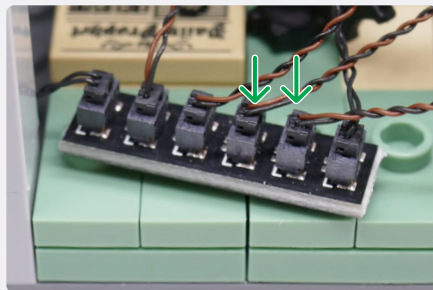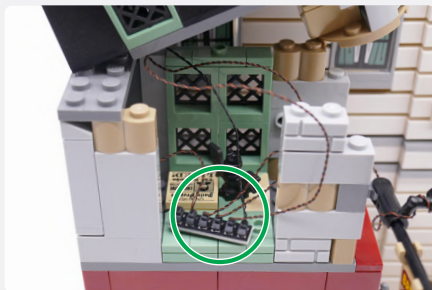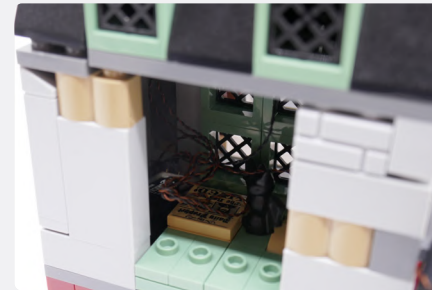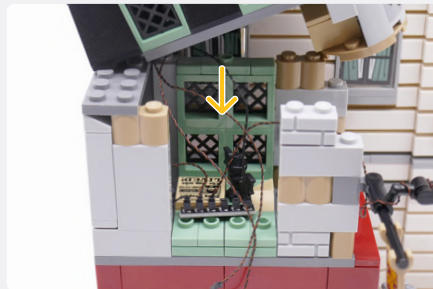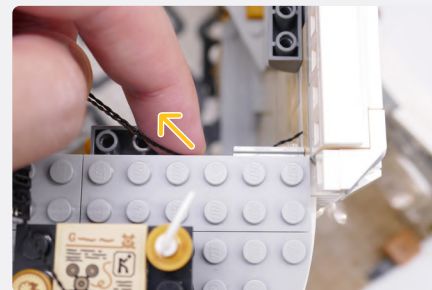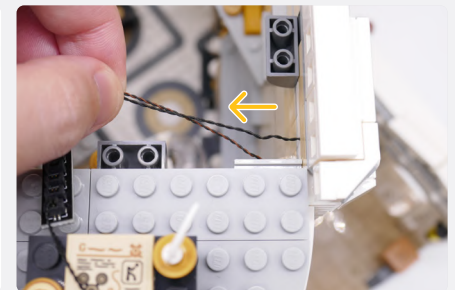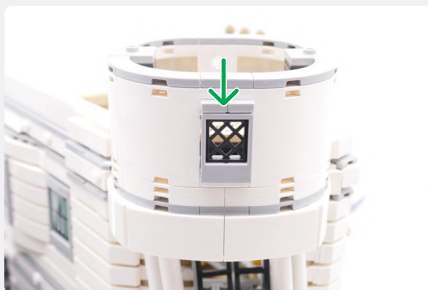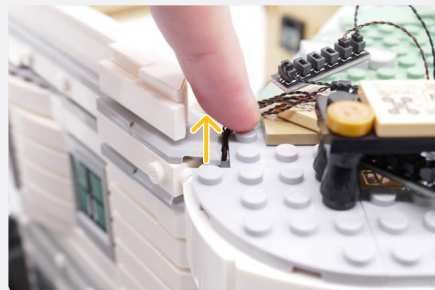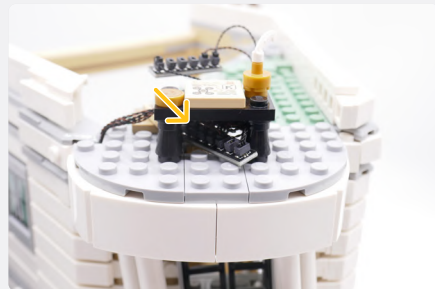
61

White 15cm Bit Light
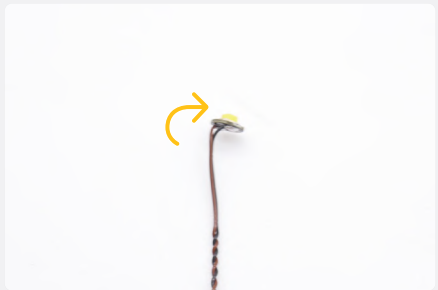
Plate, Round 1x1 with Open Stud – Black
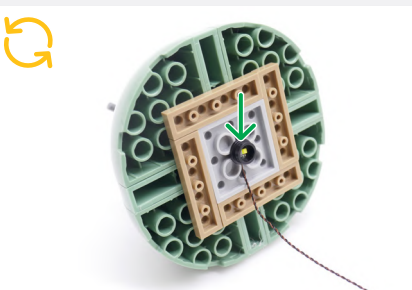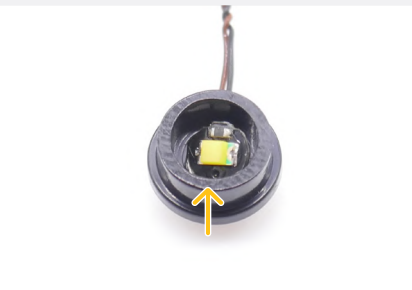
62
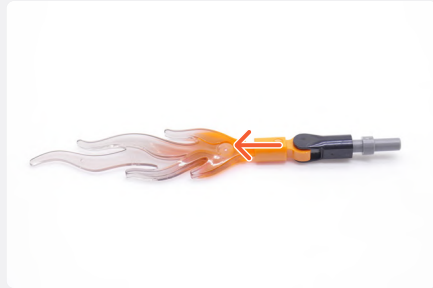
Orange 30cm Large Bit Light

Plate, Round 1x1 with Open Stud – Trans-Orange

Cone 1x1 with Top Groove – Trans-Orange
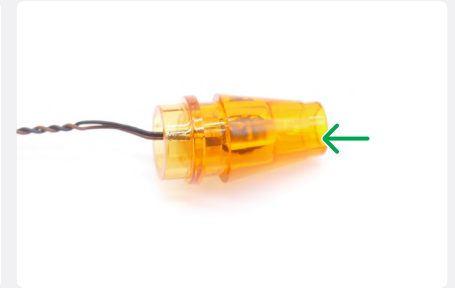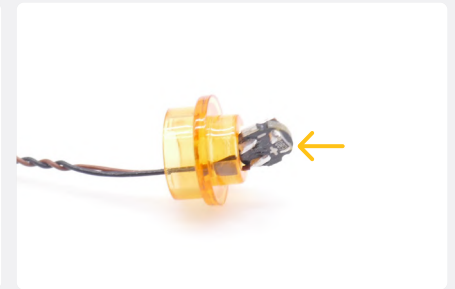
Bar 3L (Bar Arrow) – Black

NOTE

Do not push the bar too far forward otherwise it will crush the LED

→ DISCONNECT → CONNECT → DIRECTIONAL ↻ BEND / PIVOT ↻ TURN / FLIP ⤬ TWIST / BRAID ☀ POWER ON TEST ✎ NOTE ICON

63
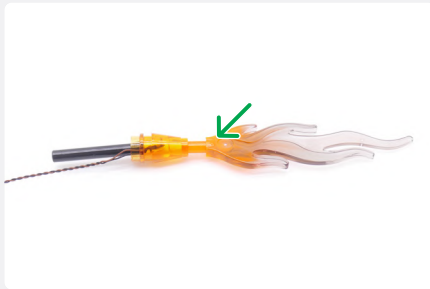
NOTE

Position the Flame so that the LED is facing down
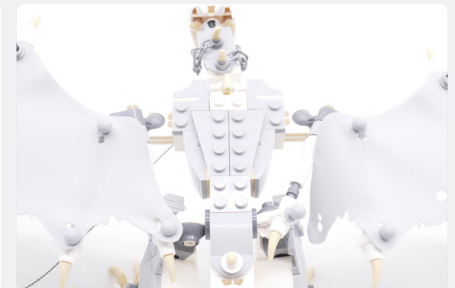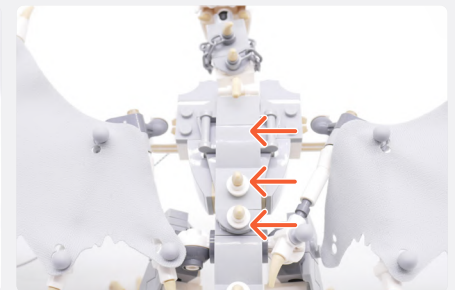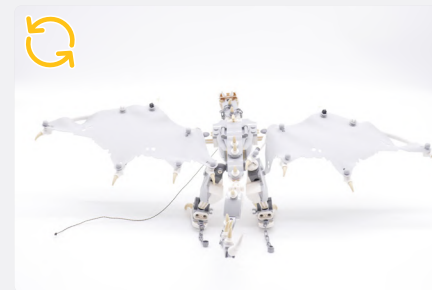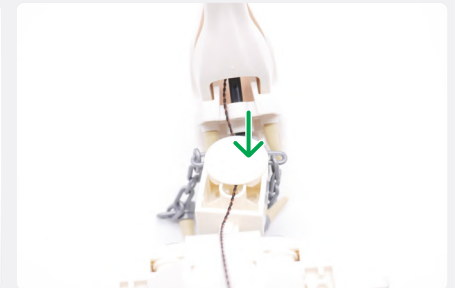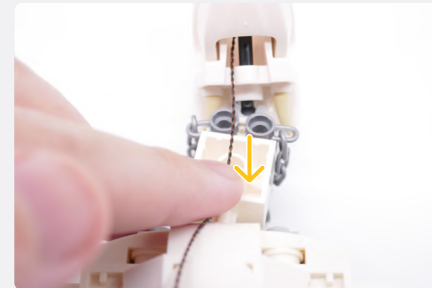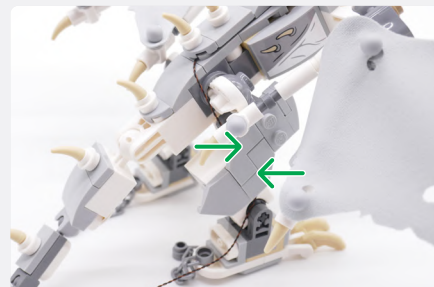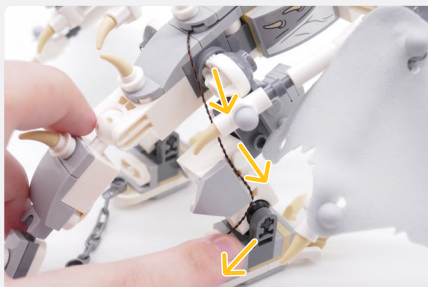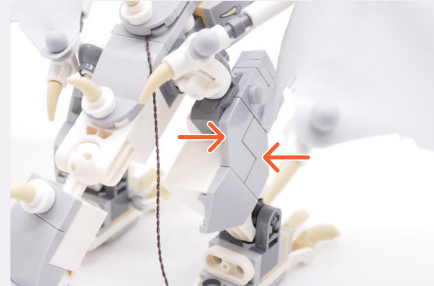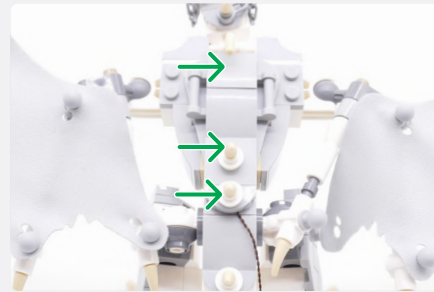
64

15cm Connecting Cable

Scary Flicker Effects Board

NOTE

Connect the 15cm Connecting Cable into the "IN" port of the Scary Flicker Effects Board
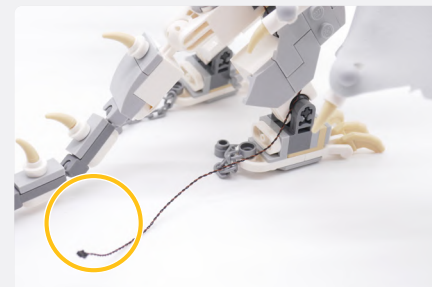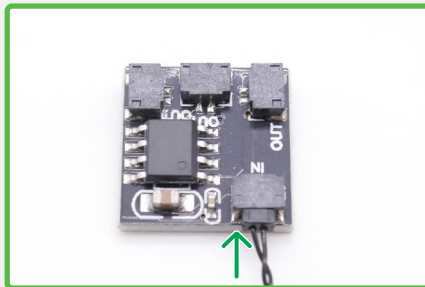
NOTE

Connect the Orange Large Bit Light into the "OUT" port of the Scary Flicker Effects Board

→ DISCONNECT   → CONNECT   → DIRECTIONAL   ↪ BEND / PIVOT   ↻ TURN / FLIP   ⤨ TWIST / BRAID   ☀ POWER ON TEST   NOTE ICON

65
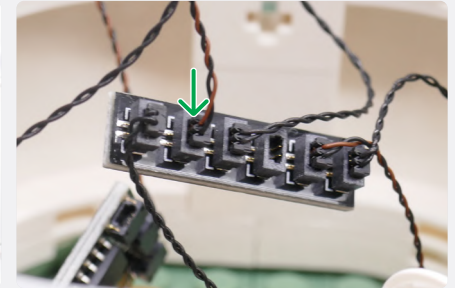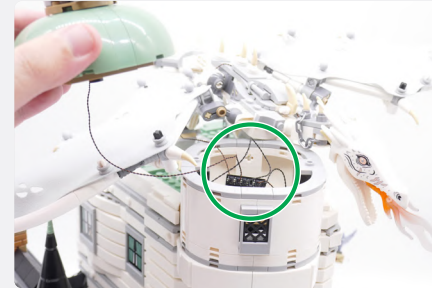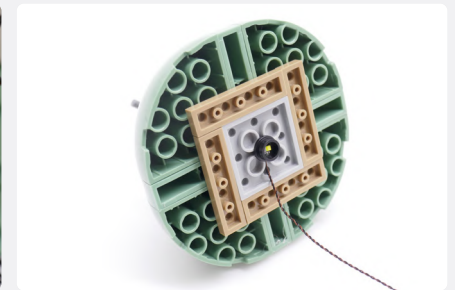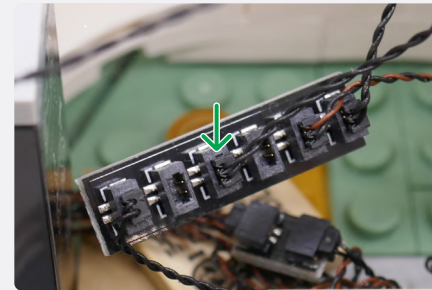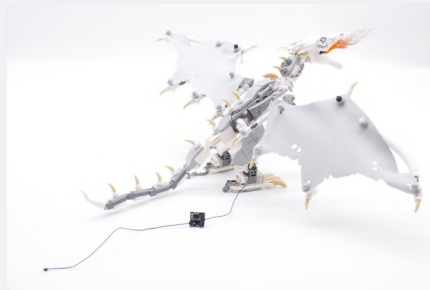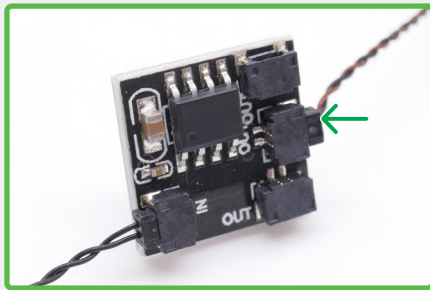
NOTE

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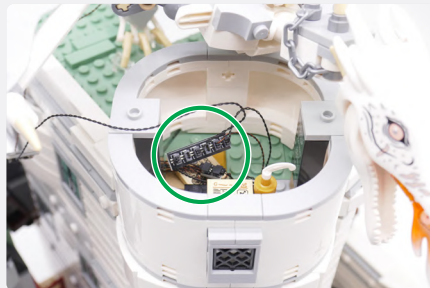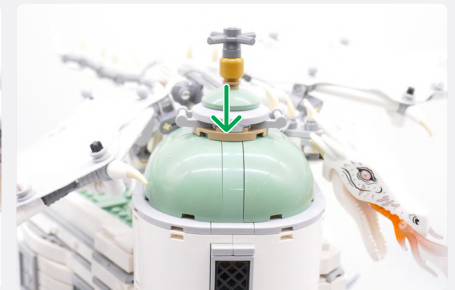
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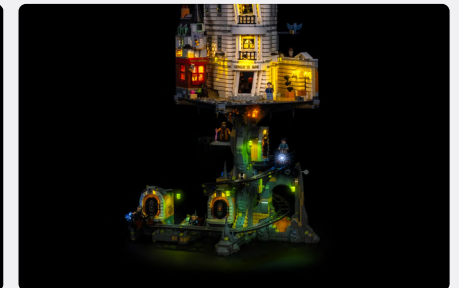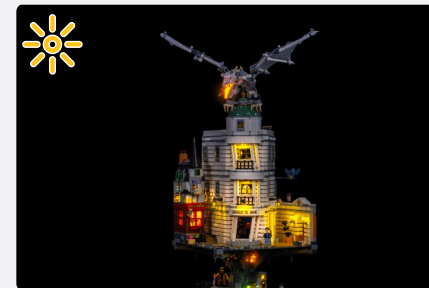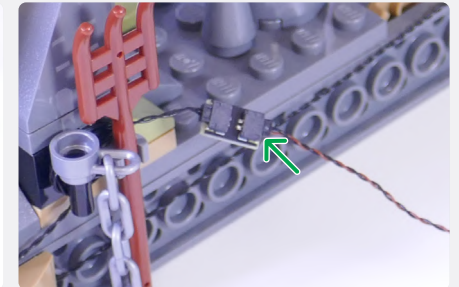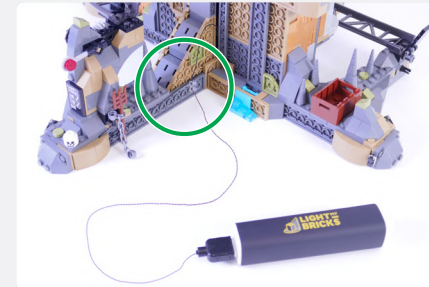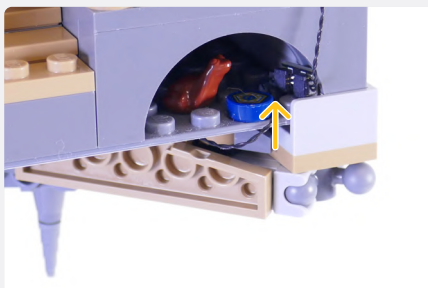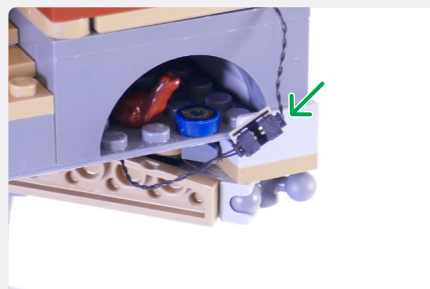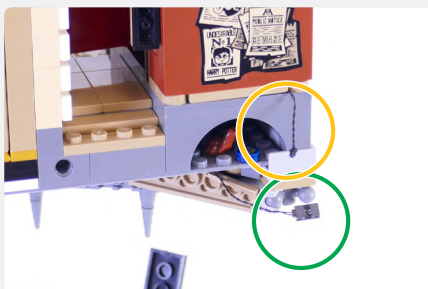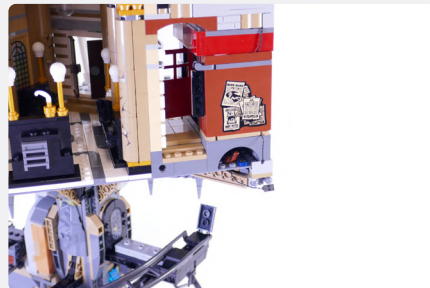
! If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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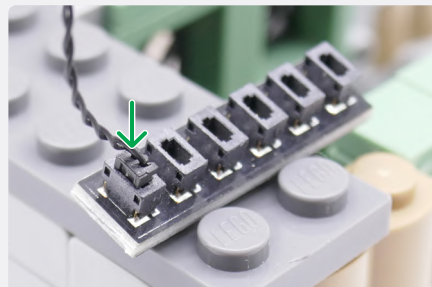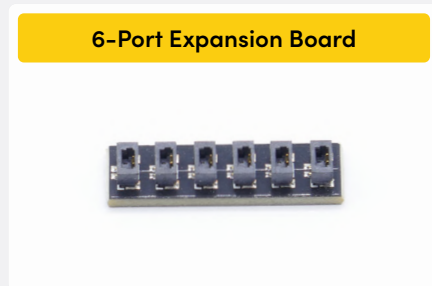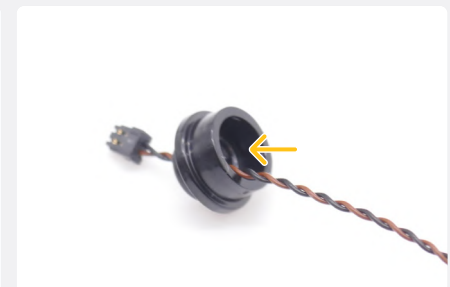
NOTE

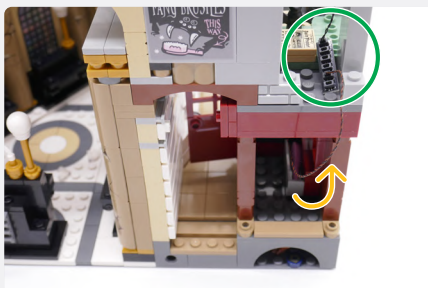You should have these parts left over that were removed from the LEGO set

FINAL PRODUCT

This finally completes installation of the Light My Bricks

LEGO® Gringotts Wizarding Bank Collector's Edition 76417 Light Kit.
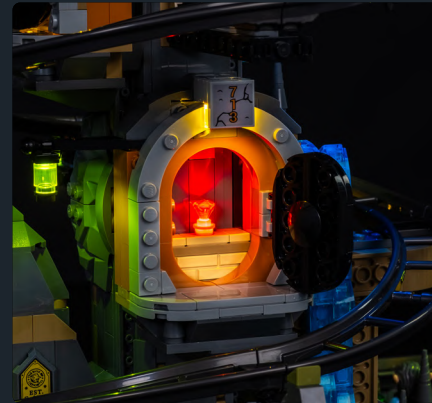
TROUBLESHOOTING

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.
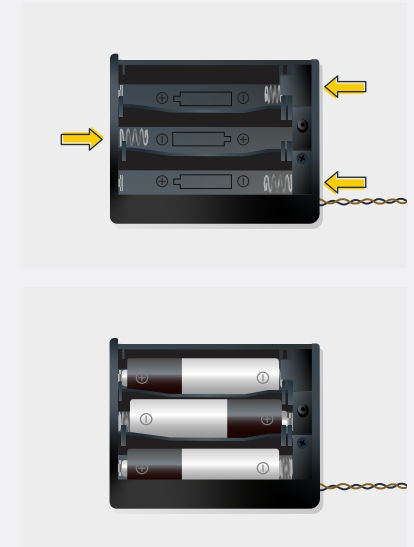
Troubleshooting

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.
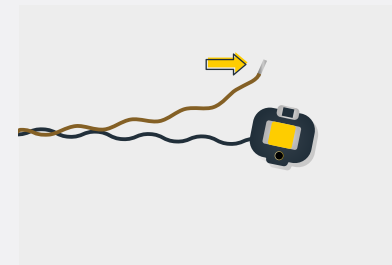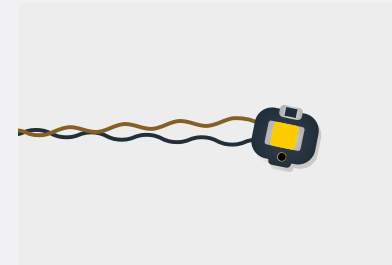
Troubleshooting

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.

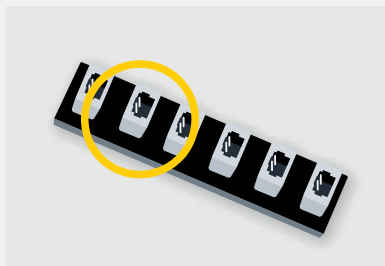If you suspect you have a faulty component due to a bent pin, try the following steps:

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.
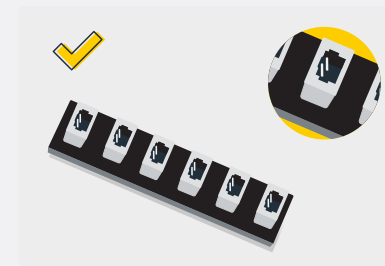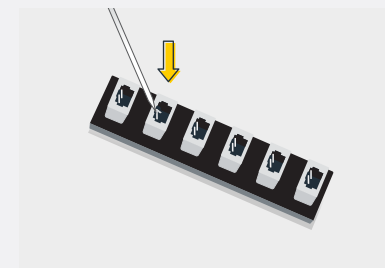
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