



**LIGHT^{MY}
BRICKS**



**LEGO[®] HULKBUSTER #76210
LIGHT KIT
INSTALLATION GUIDE**

Light My Bricks



LEGO® HULKBUSTER 76210 INSTALLATION GUIDE

Hi There!

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

Hulkbuster 76210 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:



5 x Cool White Large Bit Light - 30cm
 6 x Cool White Bit Light - 30cm
 11 x Blue Large Bit Light - 30cm



3 x 2-Port Expansion Board
 1 x 8-Port Expansion Board
 2 x 6-Port Expansion Board
 1 x 12-Port Expansion Board



1 x Connecting Cable - 50cm
 1 x Connecting Cable - 5cm
 4 x Connecting Cable - 30cm



1x USB Power Cable
 (Power Source not Included)

+ 4x Adhesive Square

ASSORTED BRICKS:

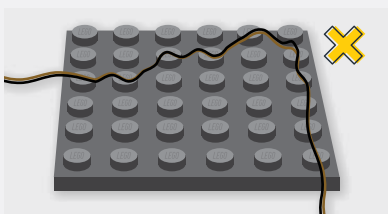
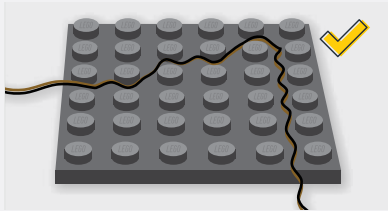
- 2 x 1x2 Plate - Black
- 4 x 1x1 Round Plate - Trans Dark Blue
- 7 x 1x1 Round Plate w/Open Stud - Black
- 2 x 1x1 Round Plate w/Open Stud - Light Grey
- 2 x 1x1 Bracket - Light Grey
- 3 x Plate 1x1 Mod Rounded w Handle - Black
- 5 x Plate 1x2 w Handle - Black
- 3 x Arm Skeleton, Bent with Clips - Black
- 2 x 1x1 Plate w/Mod Horizontal open O Clip - Black

* Indicates components which include spares

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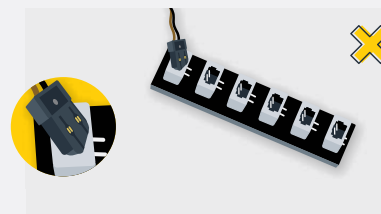
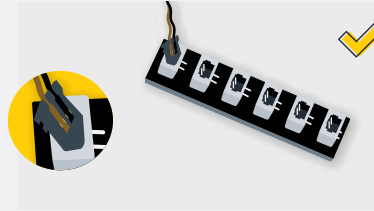
Before You Begin



Laying cables in between and underneath bricks

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

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



Connecting Cable Connectors To Expansion Boards

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

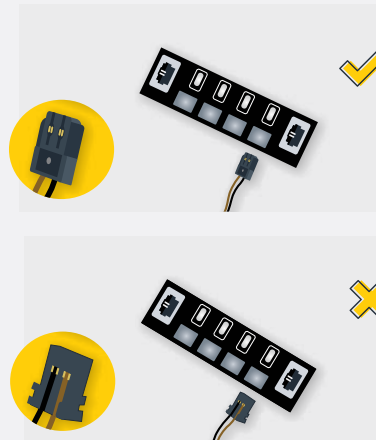
Incorrectly inserting the connector can result in bent pins inside the port or possible overheating of the expansion board when connected.

Before You Begin



Connecting Cable Connectors To Strip Lights

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



Connecting Micro Cable Connectors To Micro Expansion Board Ports

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

Before You Begin

Installing Bit Lights Under Lego® Bricks And Plates

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



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.

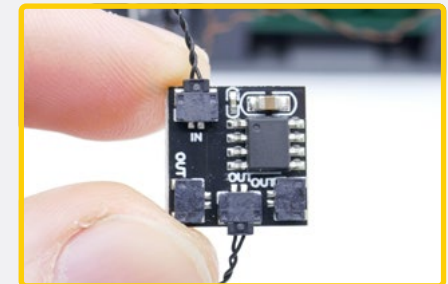
Disconnect Note


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

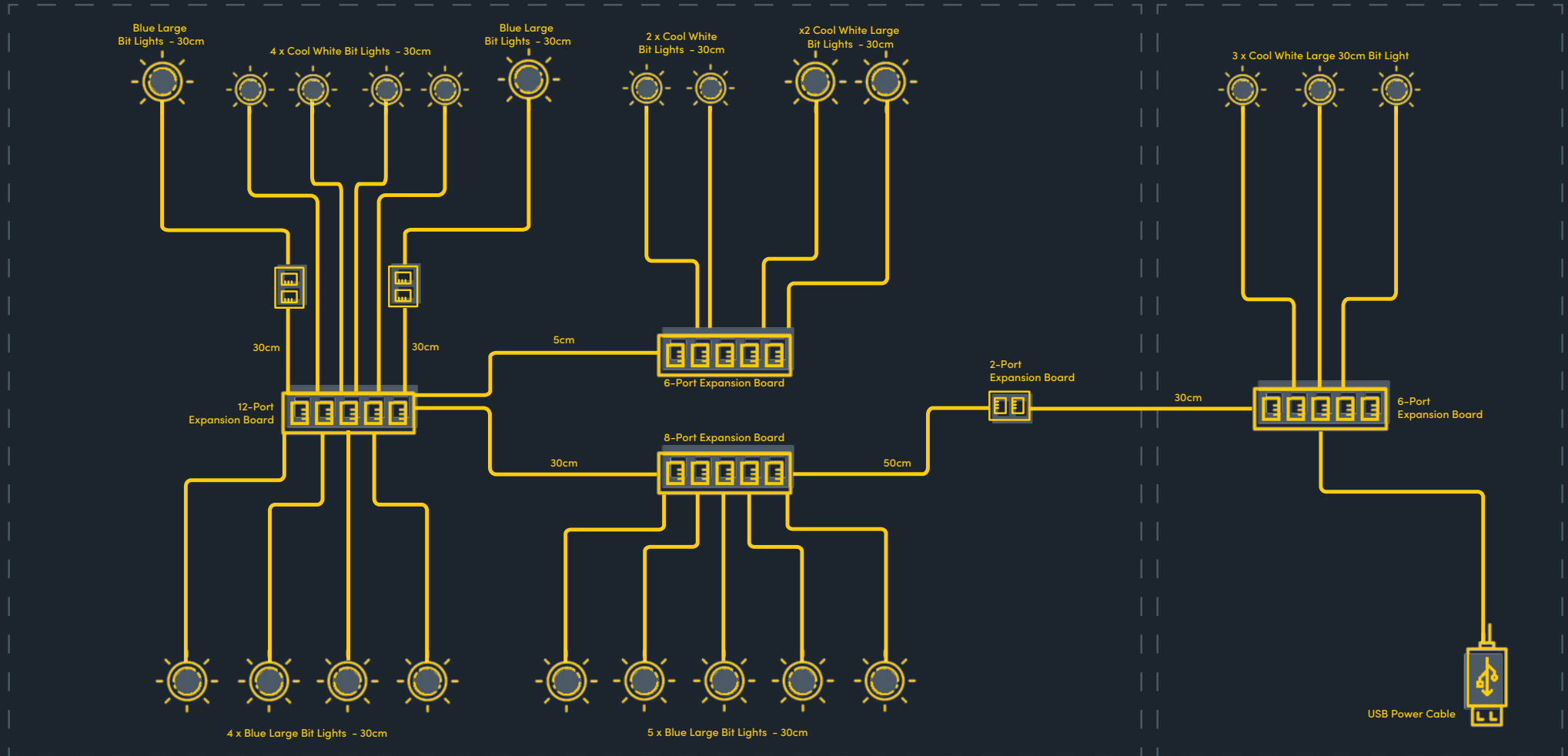




BLUEPRINT

Hulkbuster

Sign

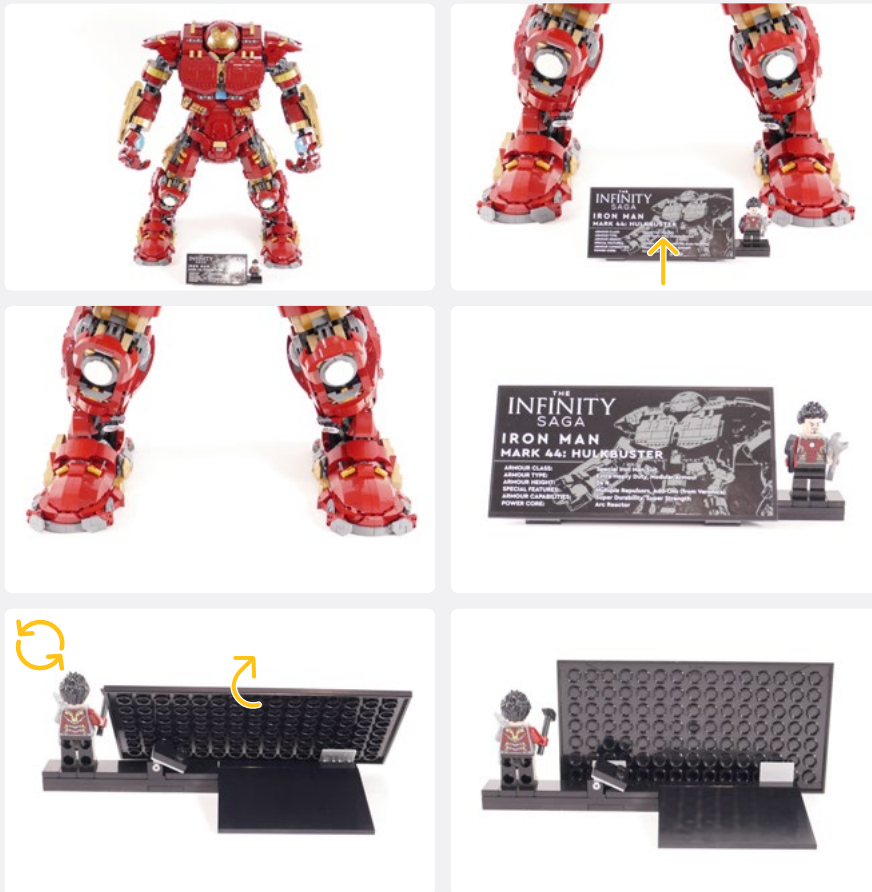




INSTRUCTIONS

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

Cool White 30cm Large Bit Light



Round Plate 1x1 Open Stud - Black



Plate 1x1 Mod Rounded W/ Handle - Black





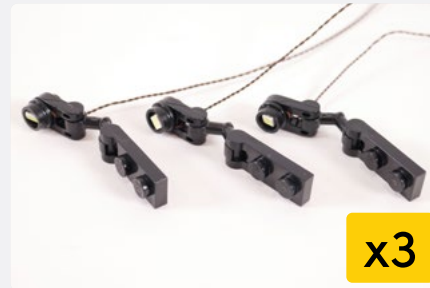
**Arm Skeleton, Bent W/ Clips
Horizontal Grip - Black**



**Plate 1x2 Mod W/ Handle On End
- Black**



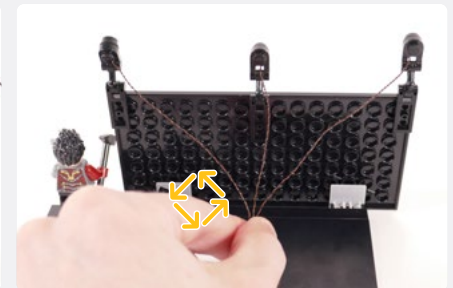
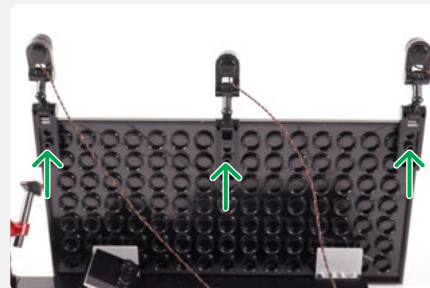
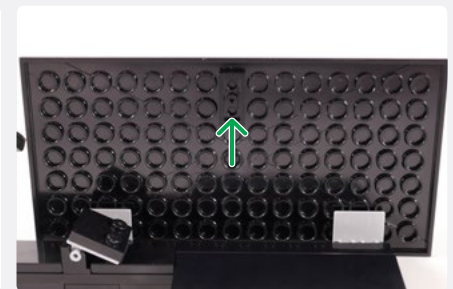
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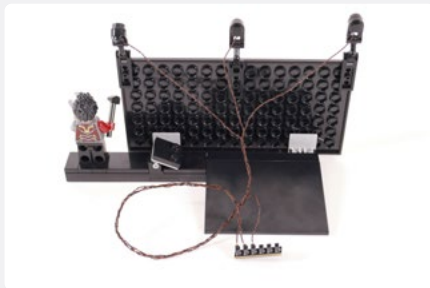
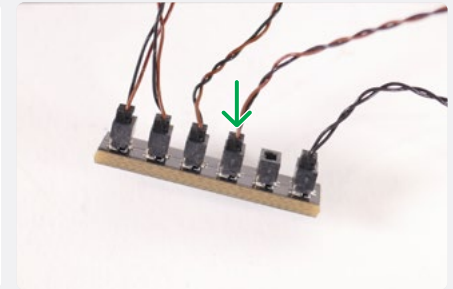
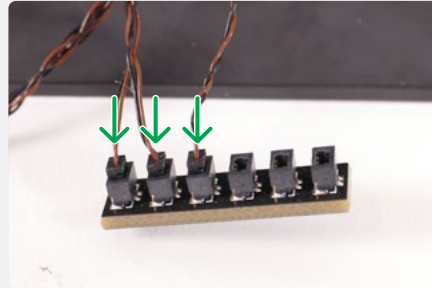
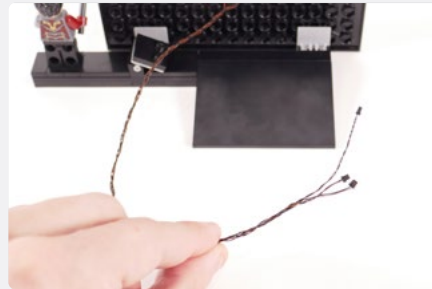
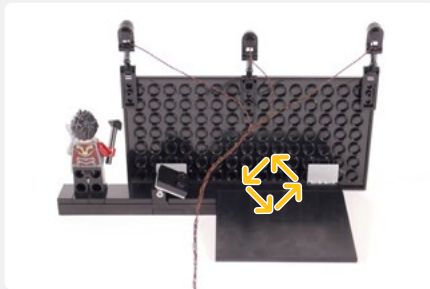


x3

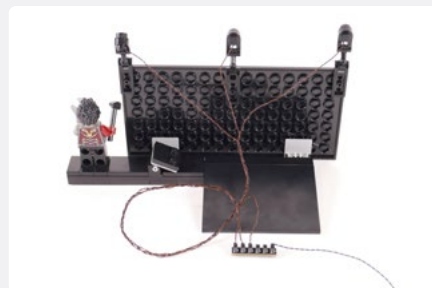
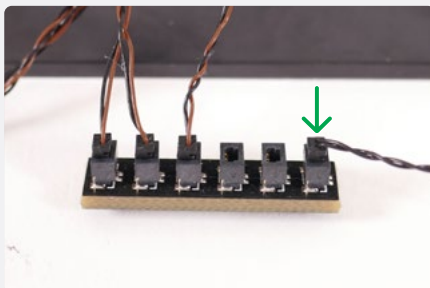
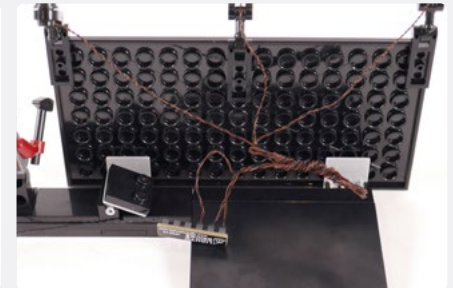
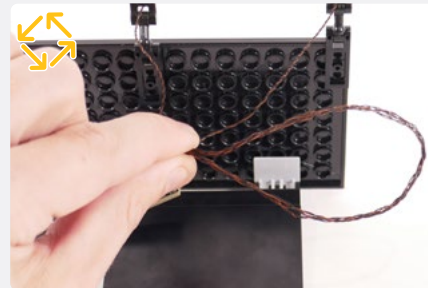


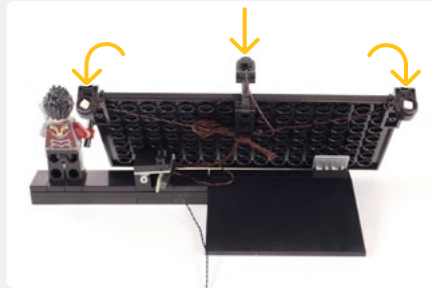
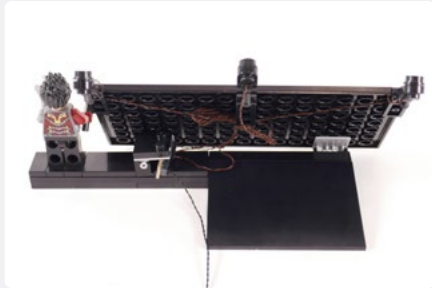
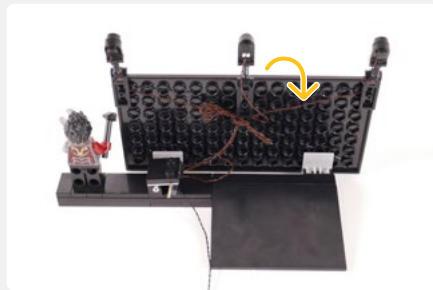
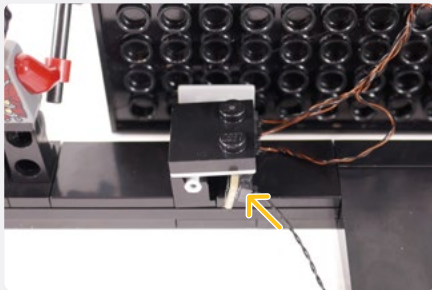
Plate 1x2 - Black



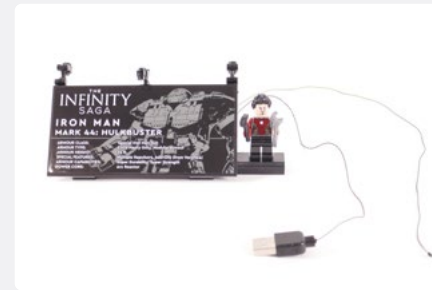


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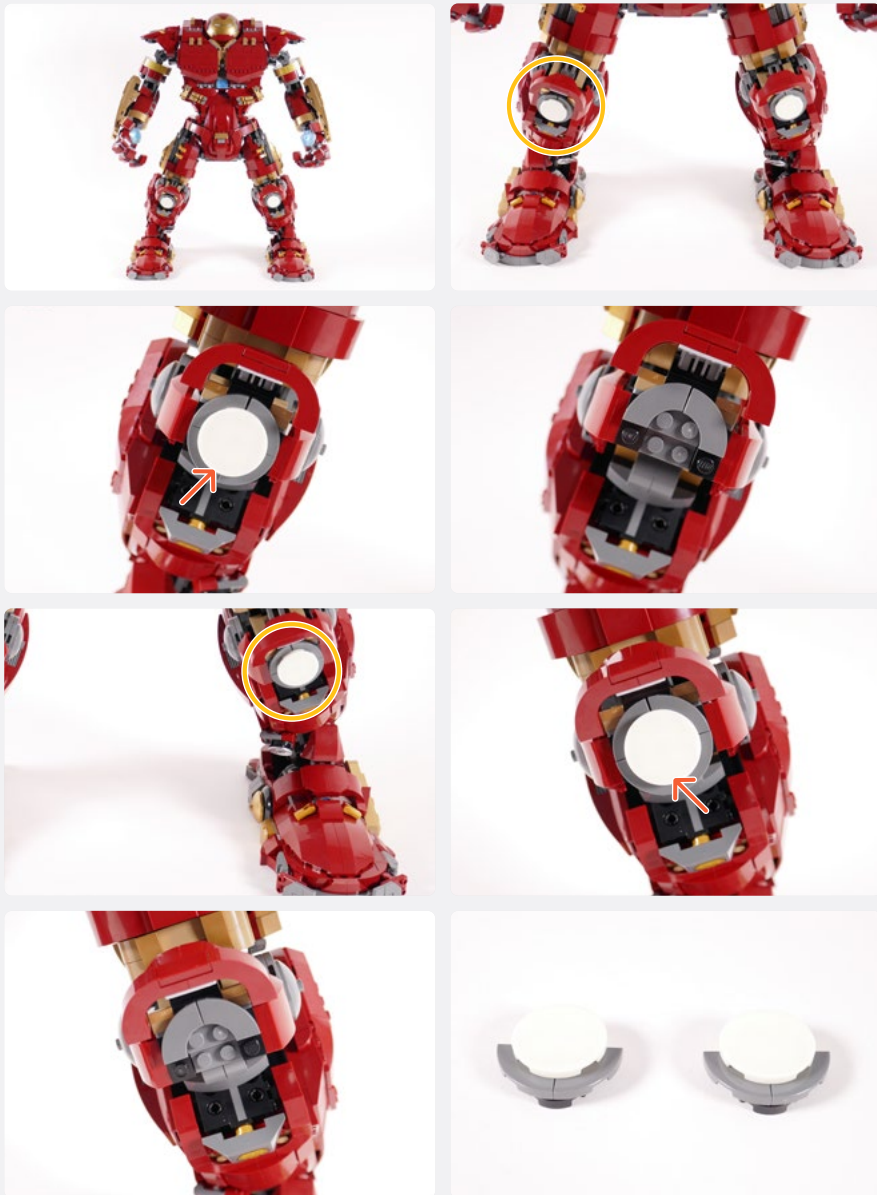
NOTE

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**

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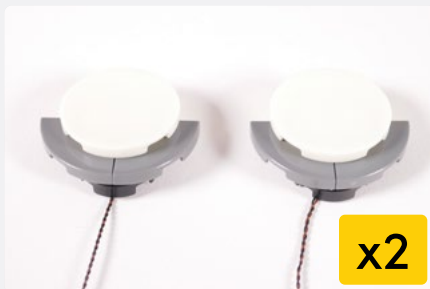


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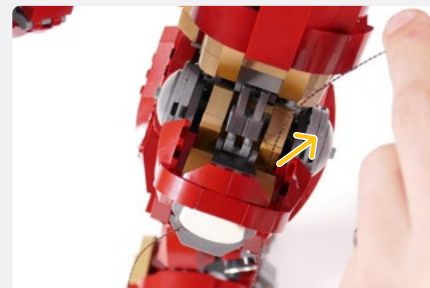
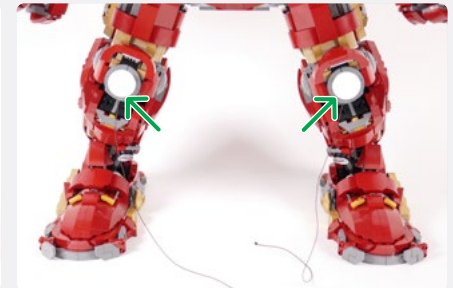




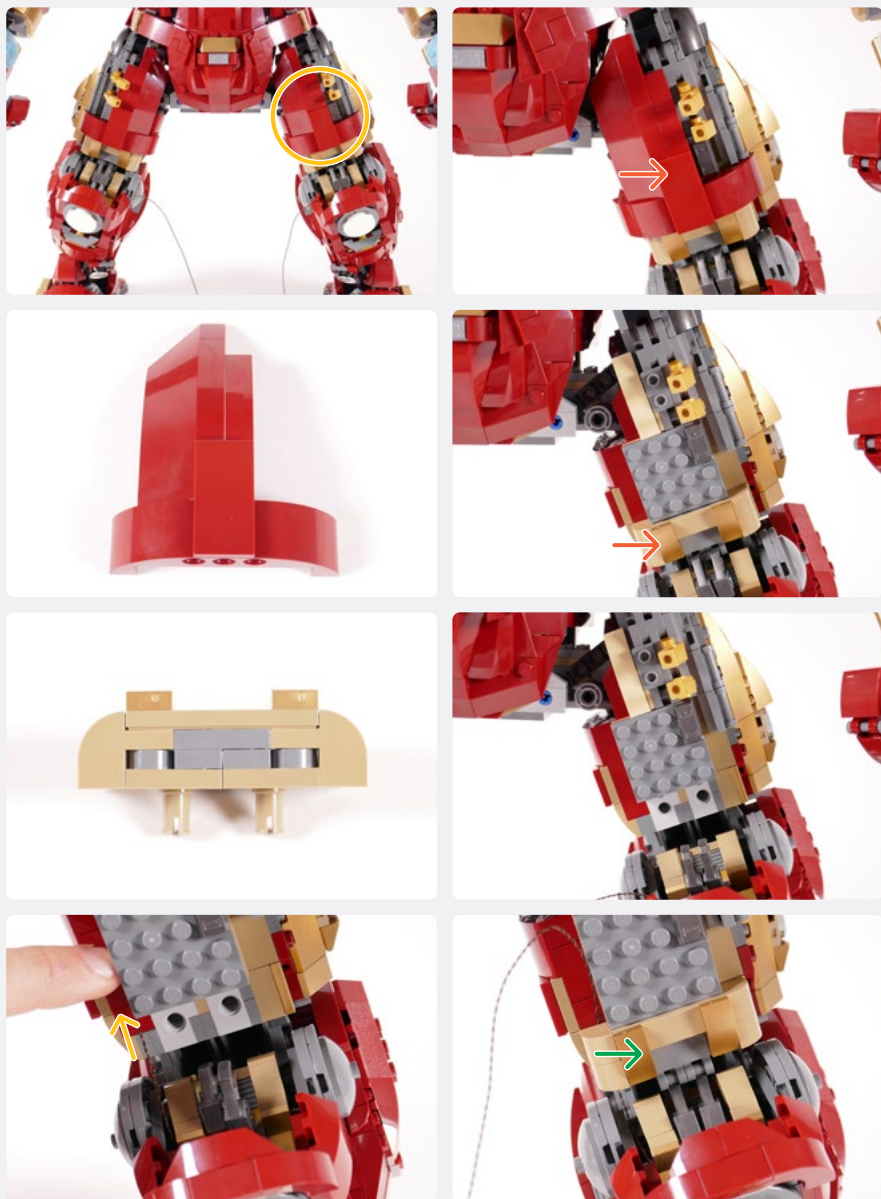
NOTE
The Large Bit Light should fit within the centre of the Opal Coloured 3x3 Round Tile.



8



9

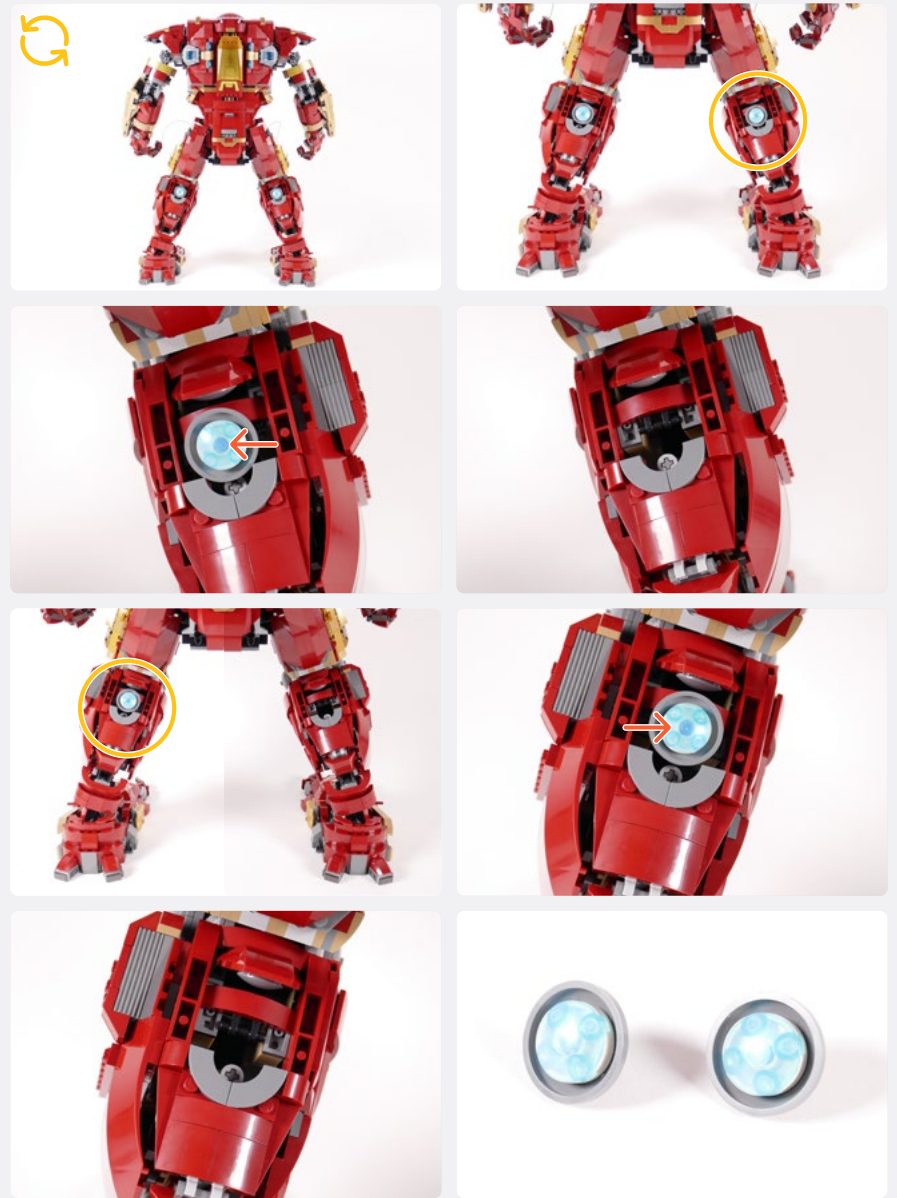


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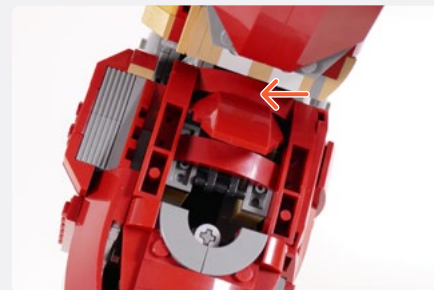
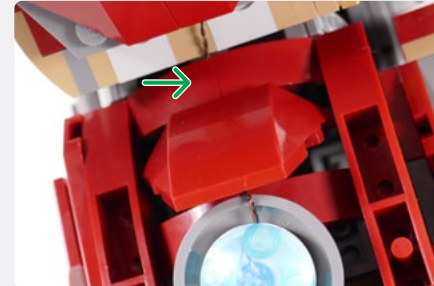
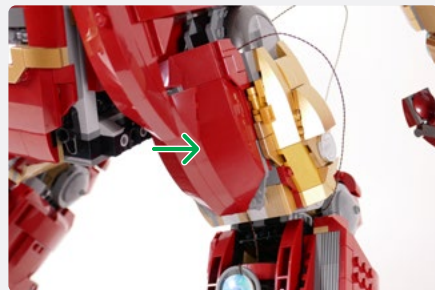
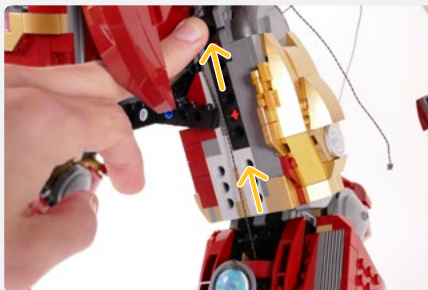
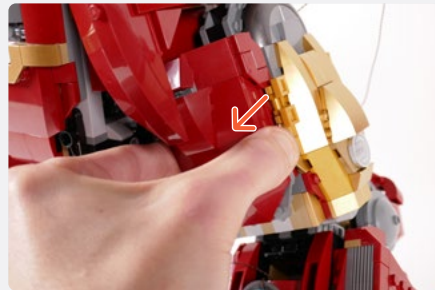
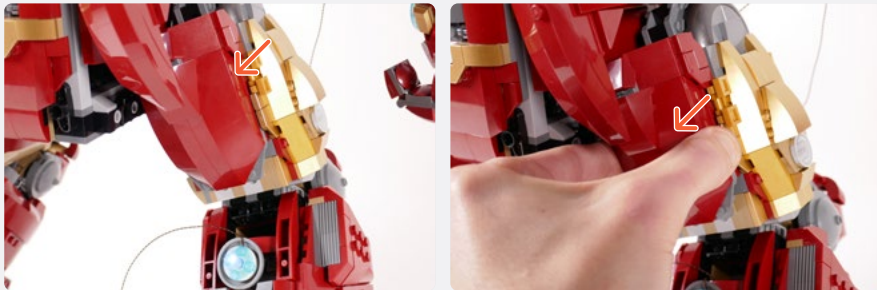


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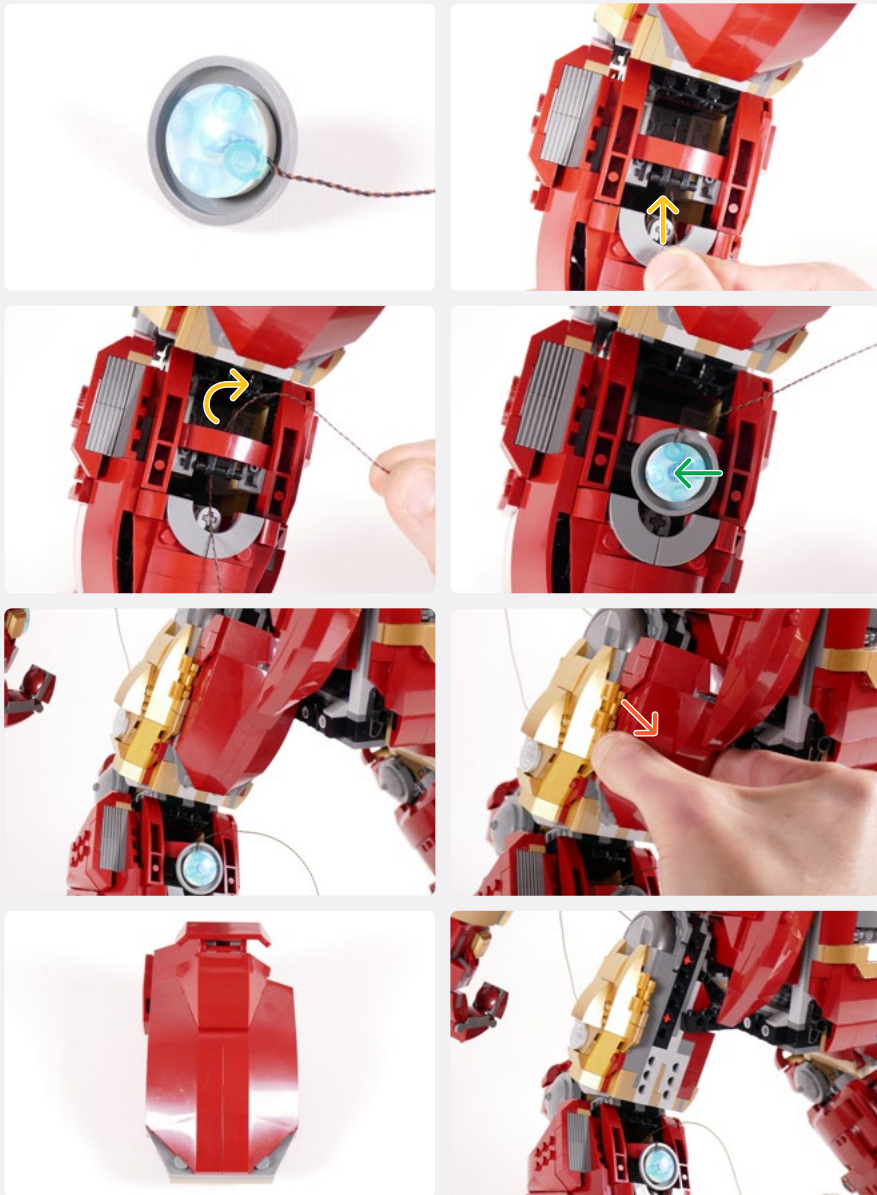


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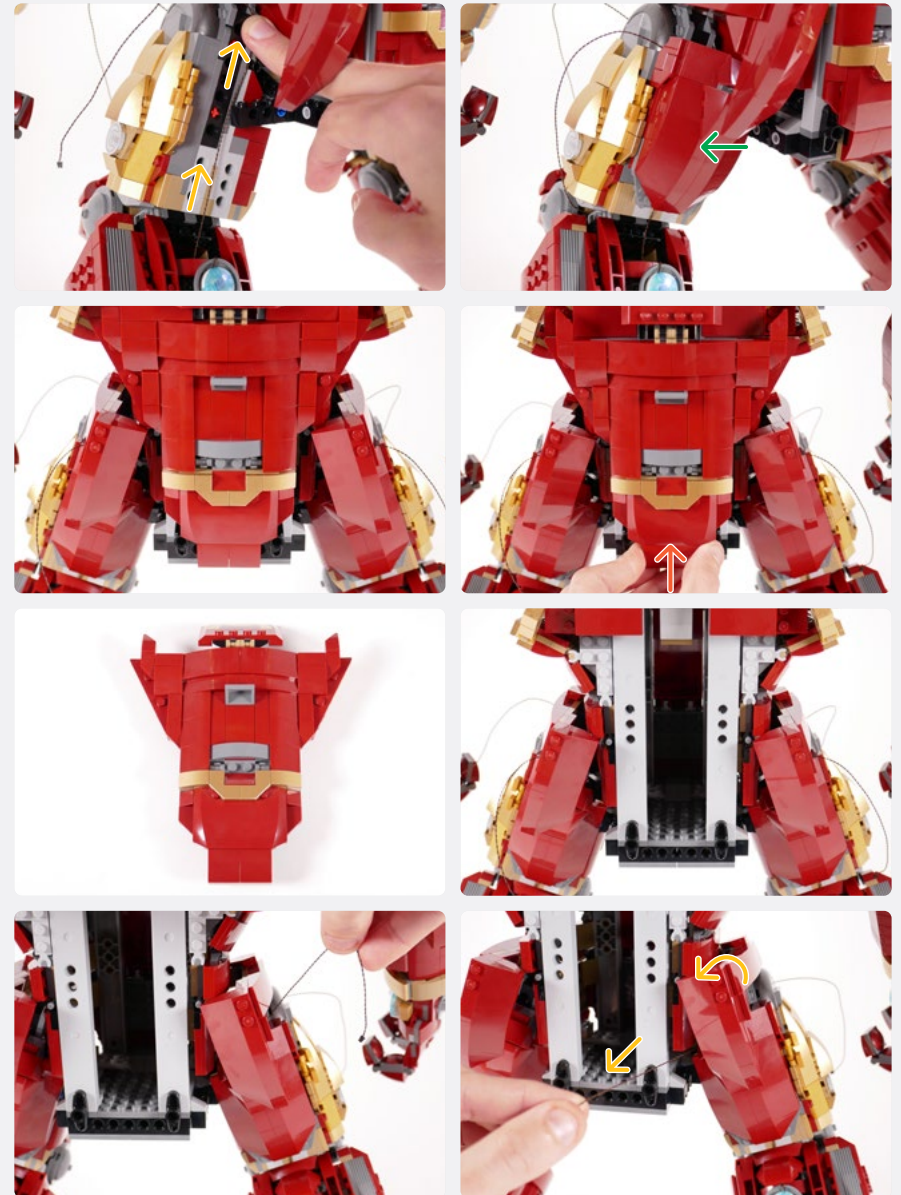


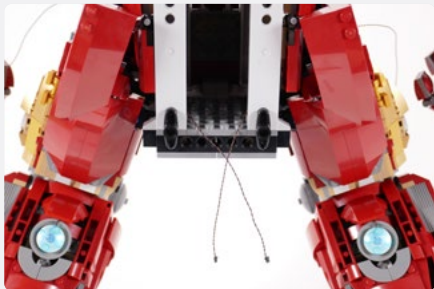
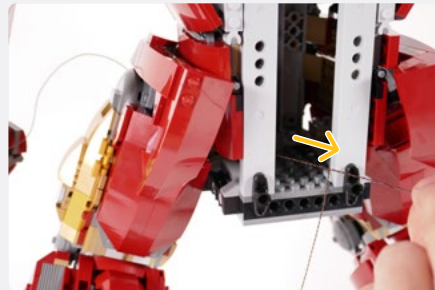
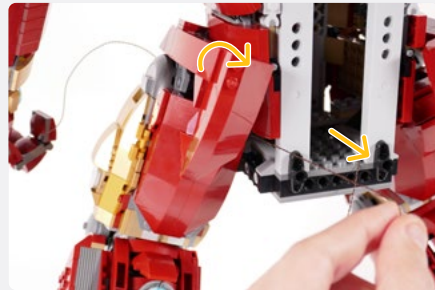
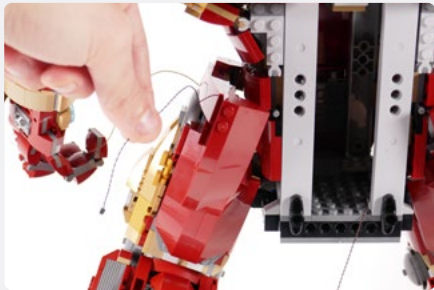
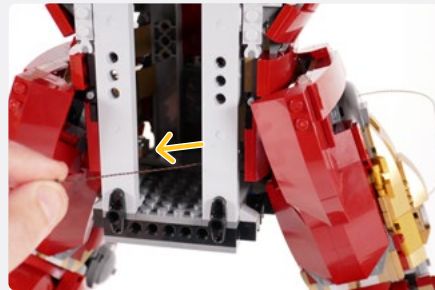
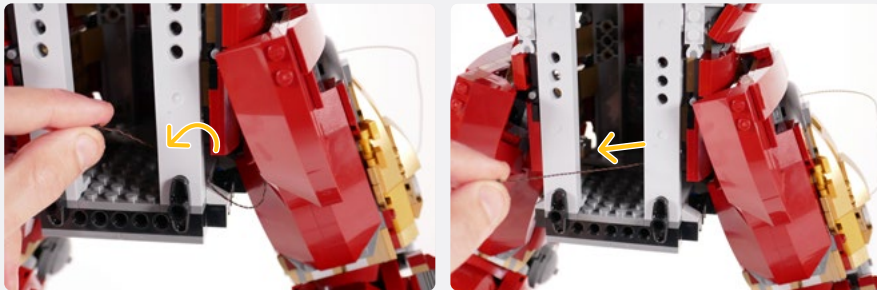


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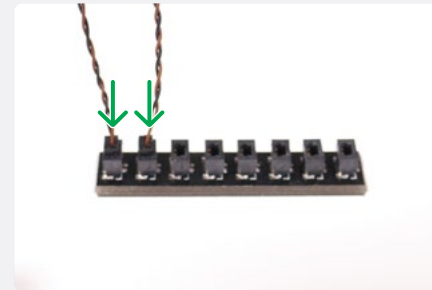


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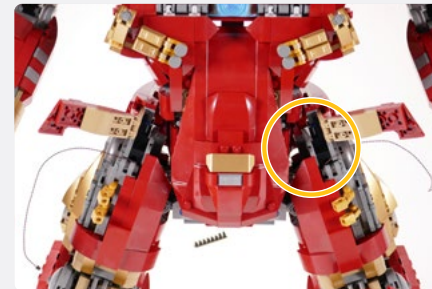




8-Port Expansion Board

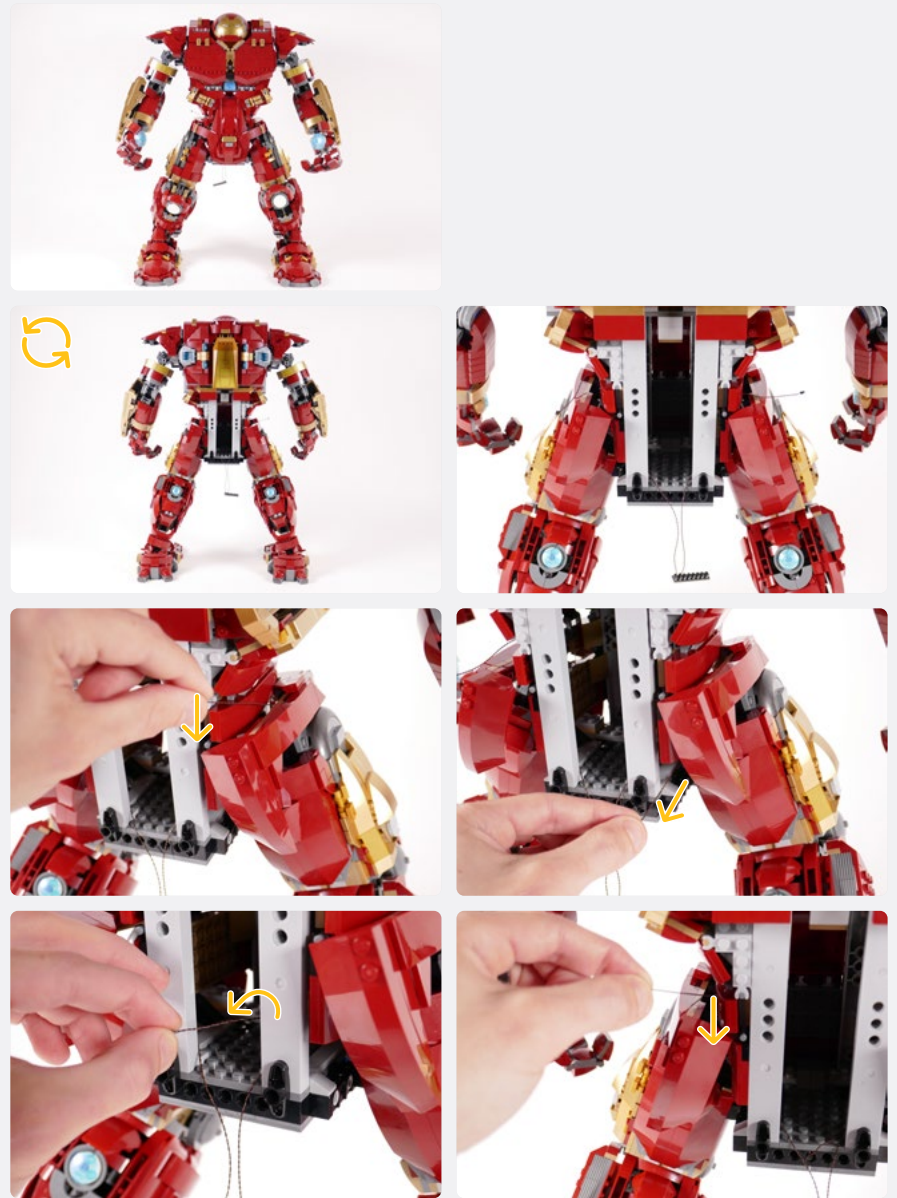


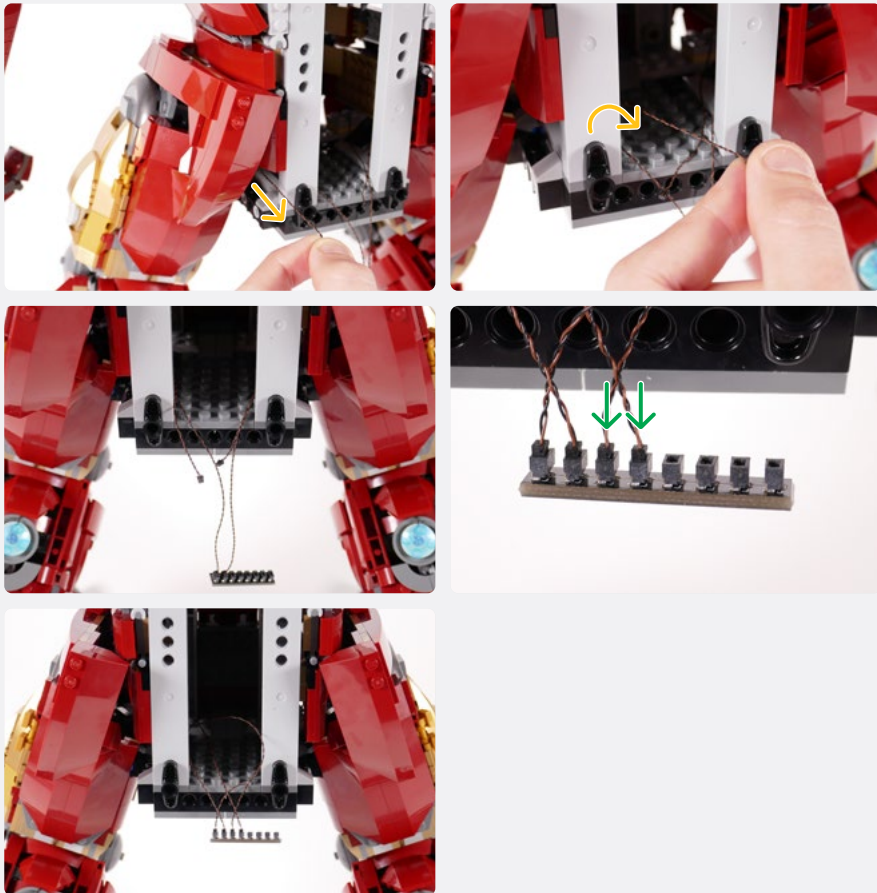
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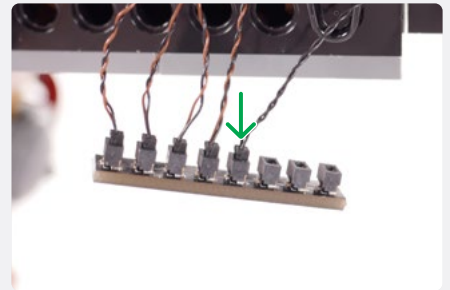
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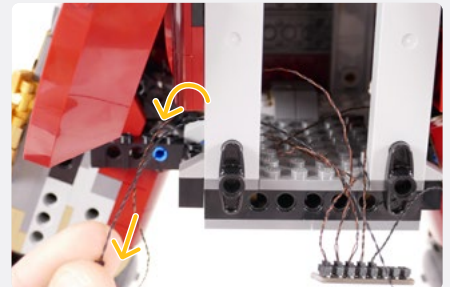
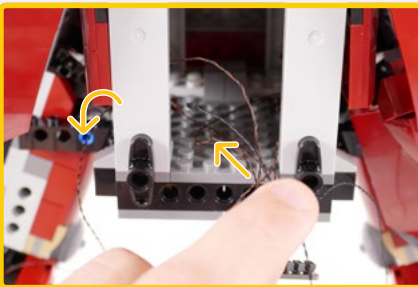


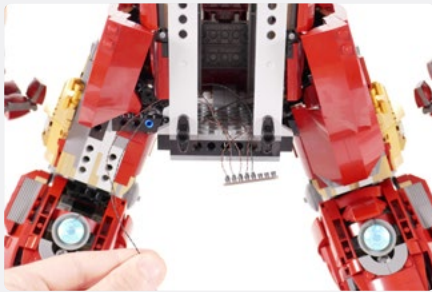
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50cm Connecting Cable



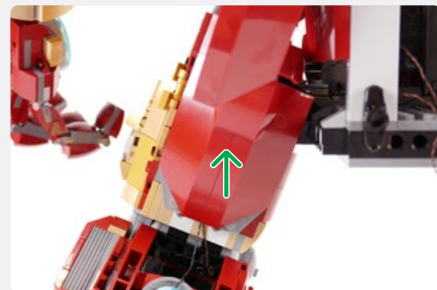
NOTE
Thread the 50cm Connecting Cable around the left Grey Beam.



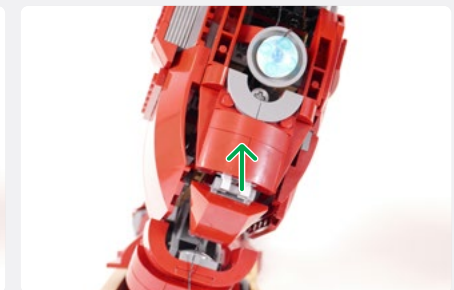
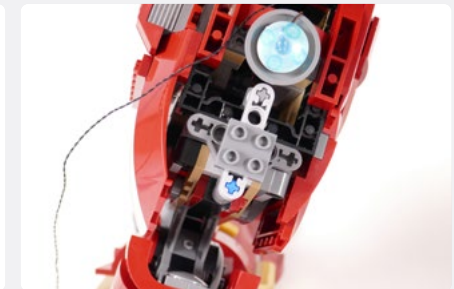
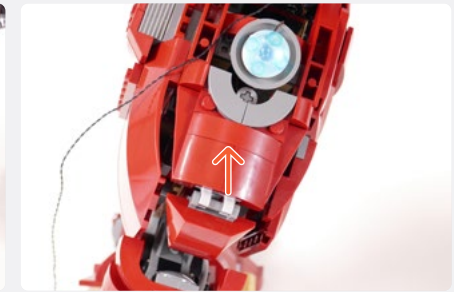


NOTE

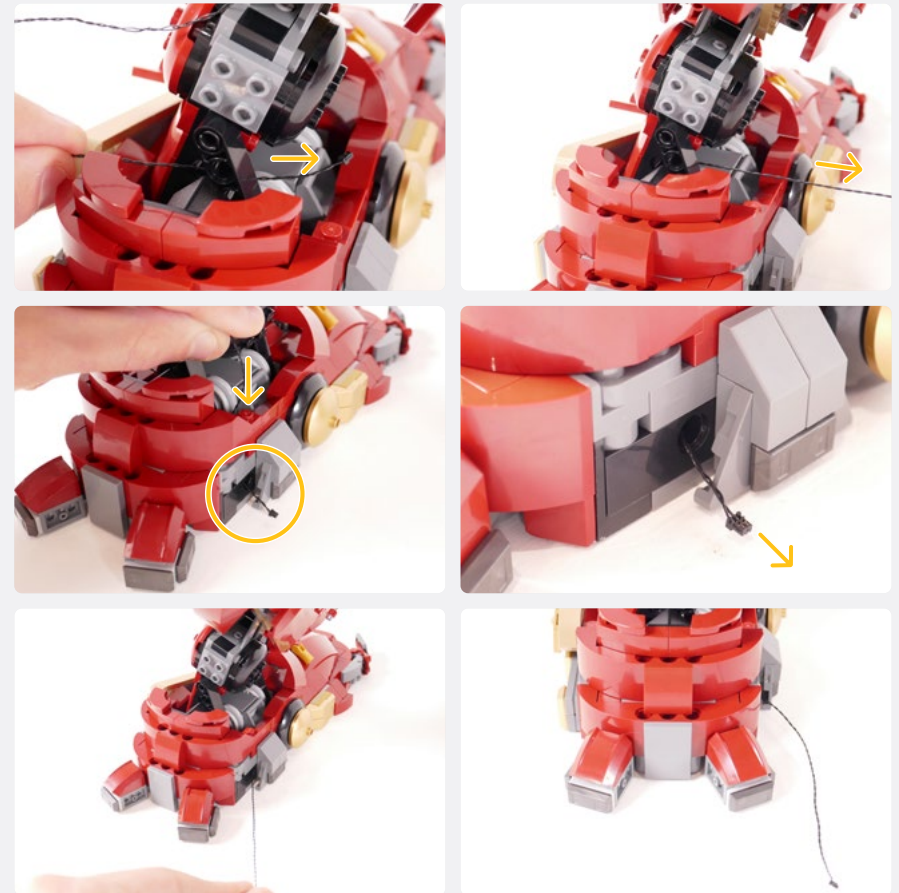
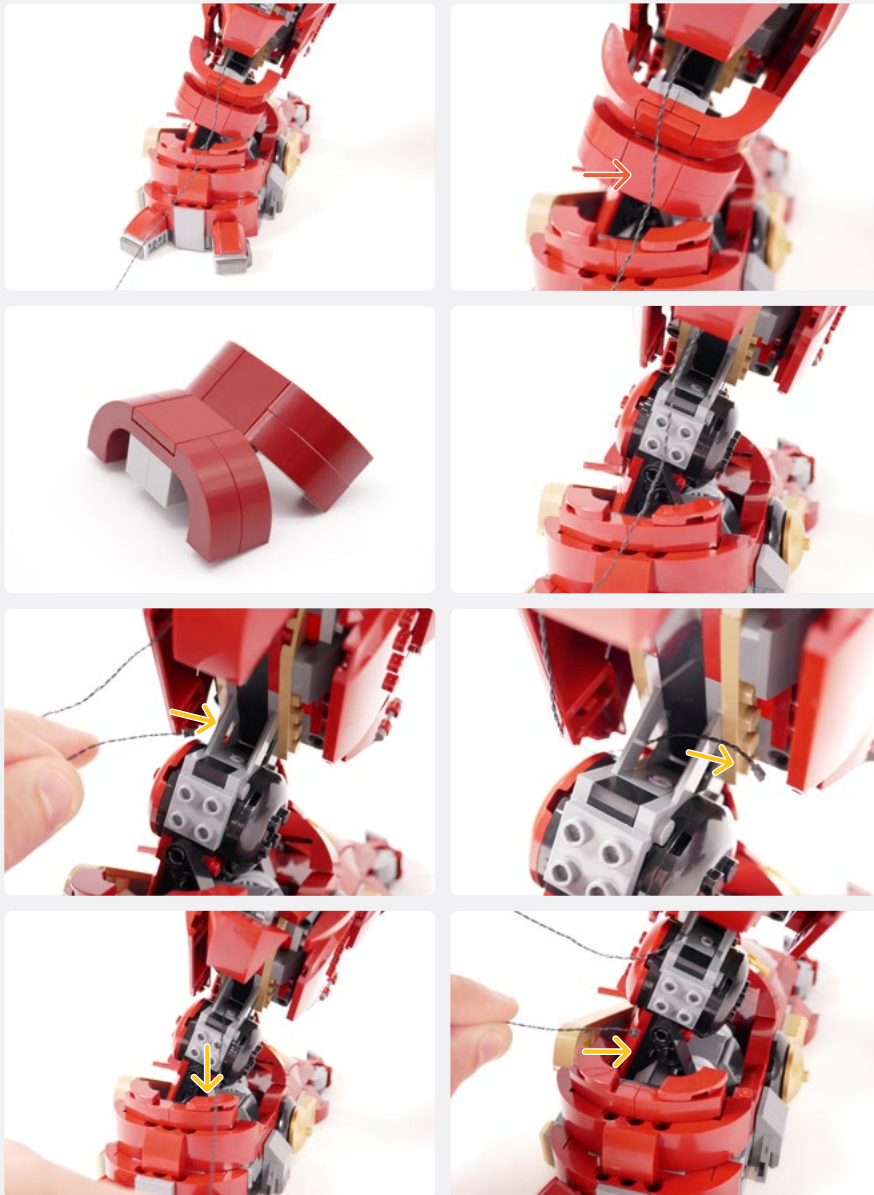
Hold both the 50cm Connecting Cable & the Bit Light Cable down the centre of the leg inbetween the Technic Holes.



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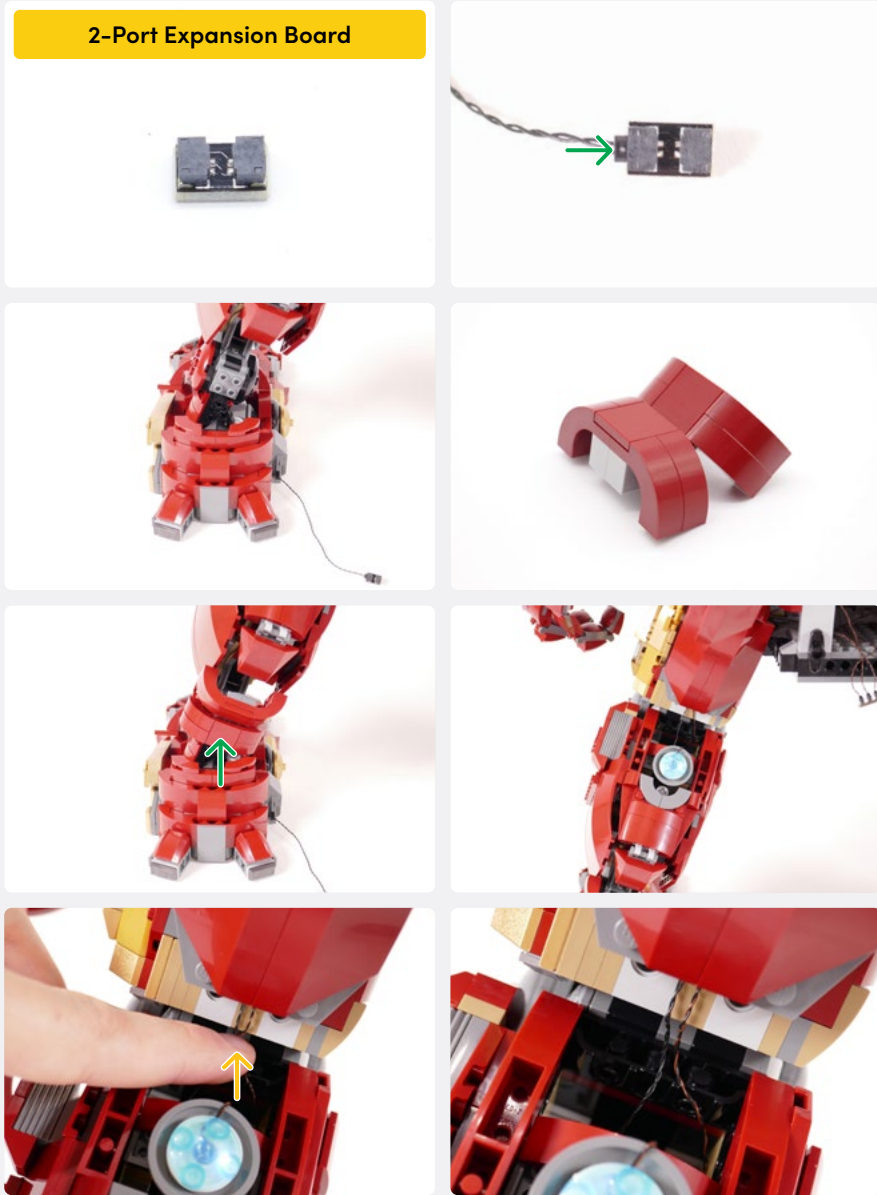


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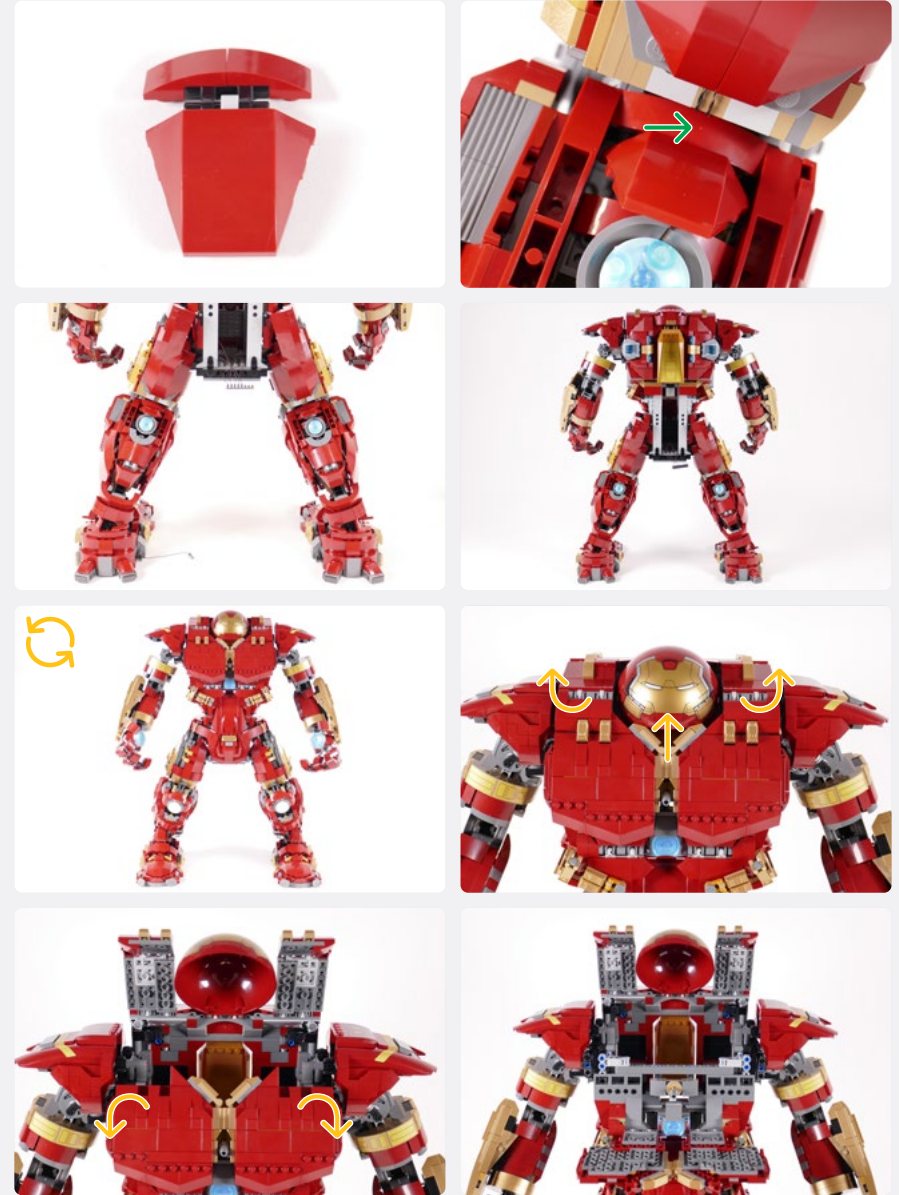


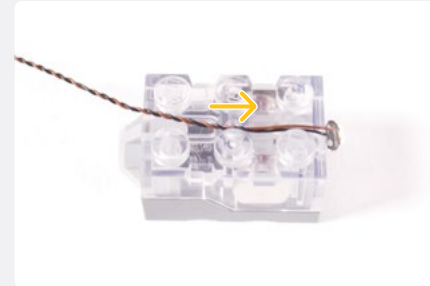
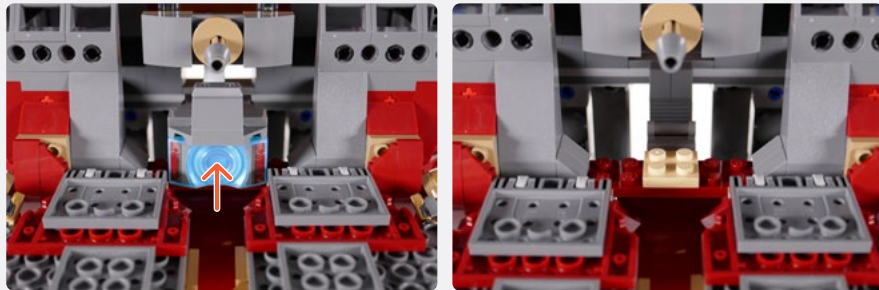
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2-Port Expansion Board



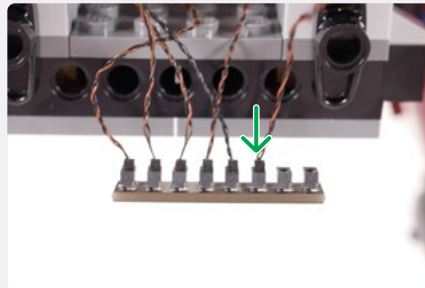
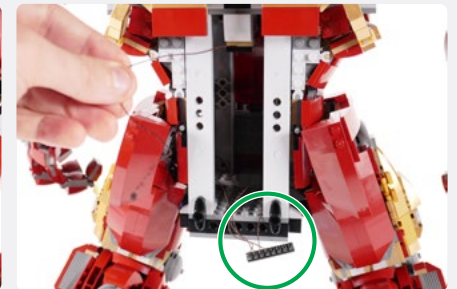
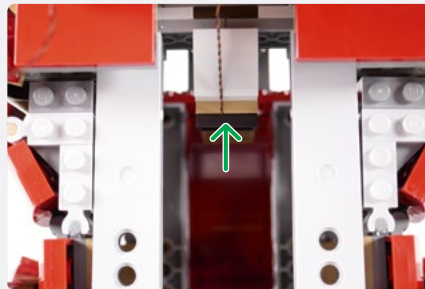
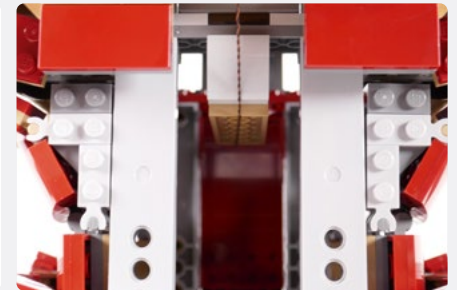
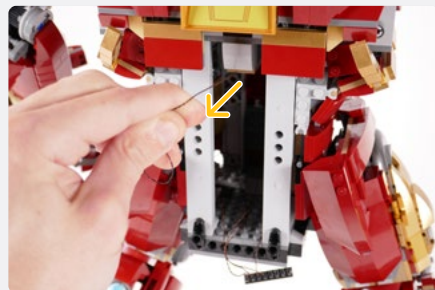
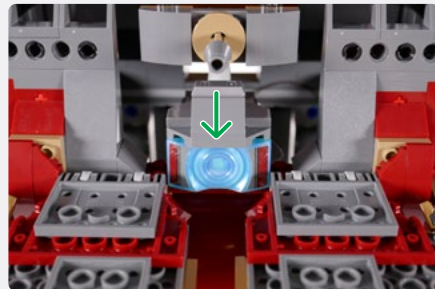
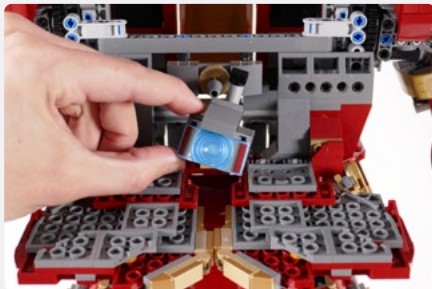
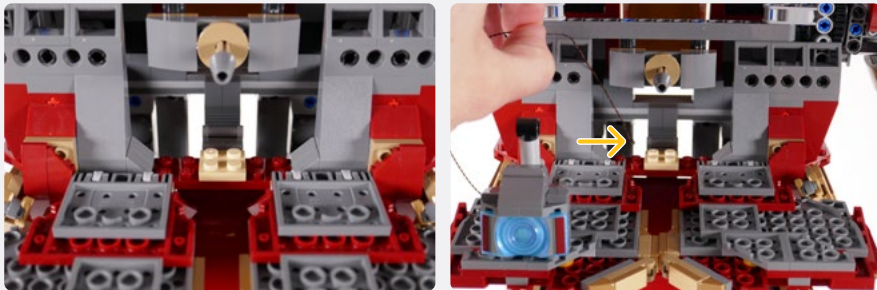
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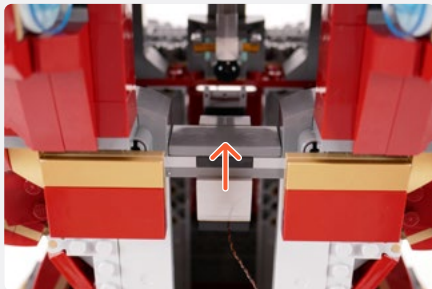
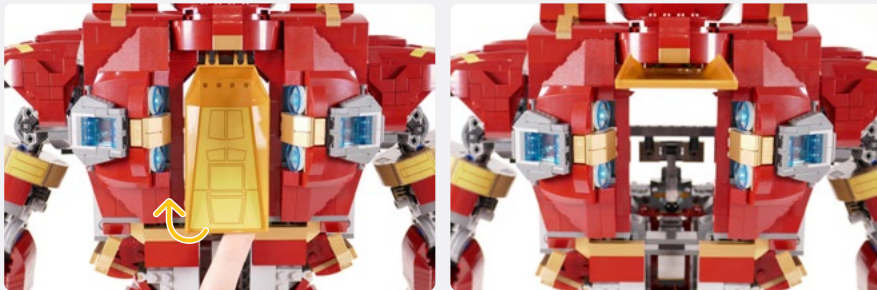


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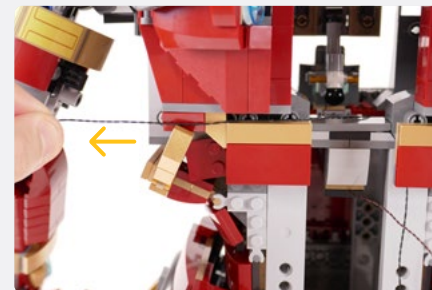
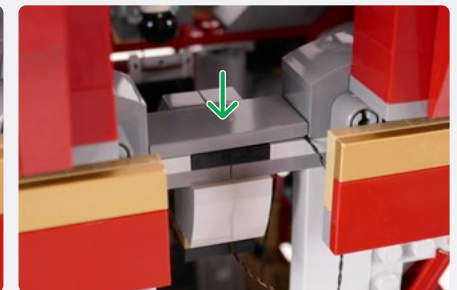
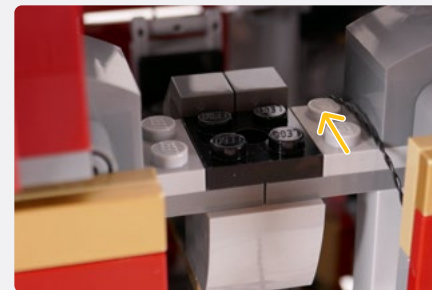
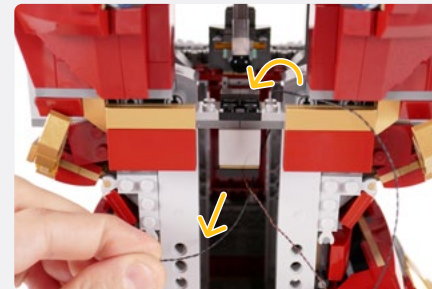
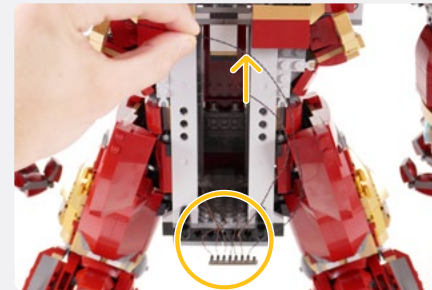
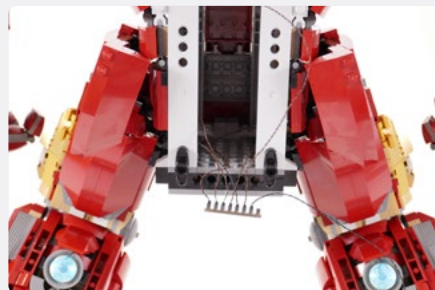
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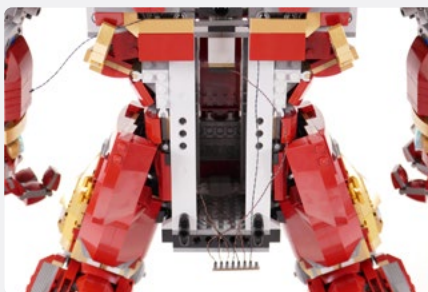
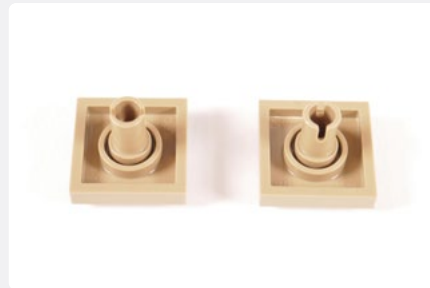
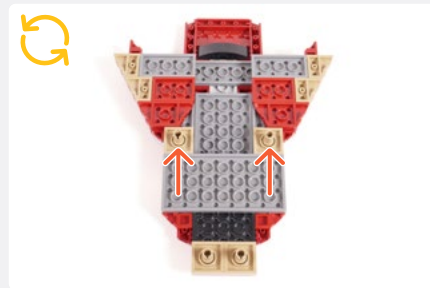
25



30cm Connecting Cable

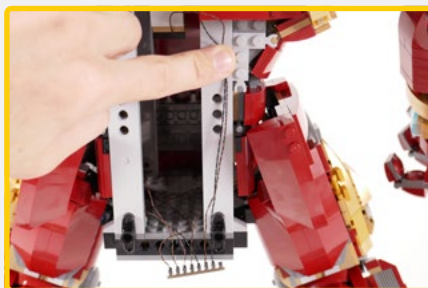


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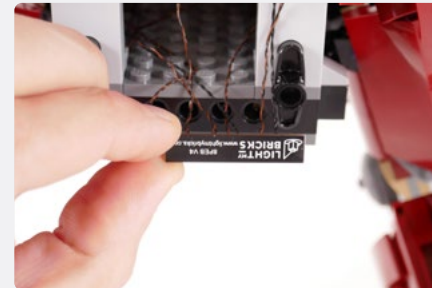
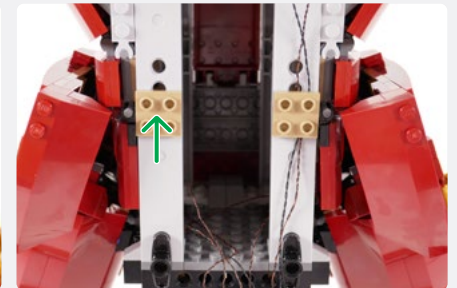


NOTE

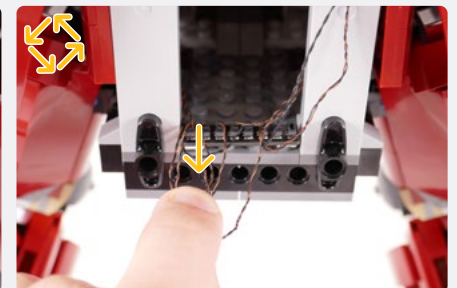
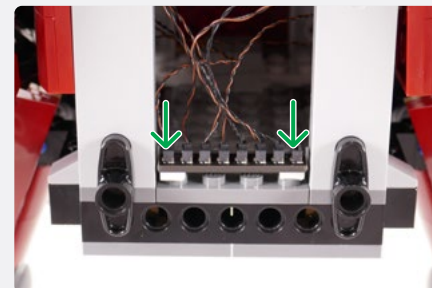
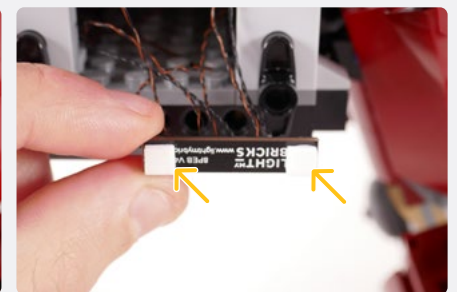
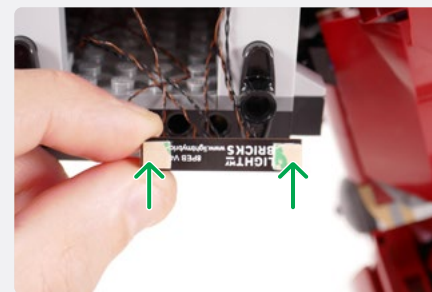
Hold both the 30cm Connecting Cable & the Bit Light Cable From chest plate down the right Technic Beam.

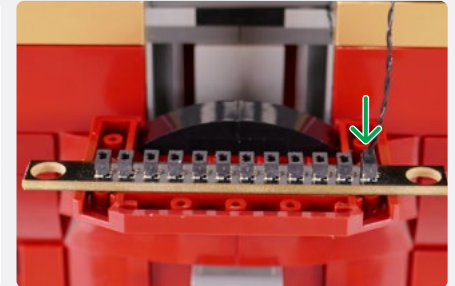
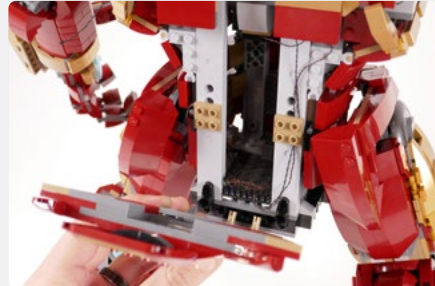
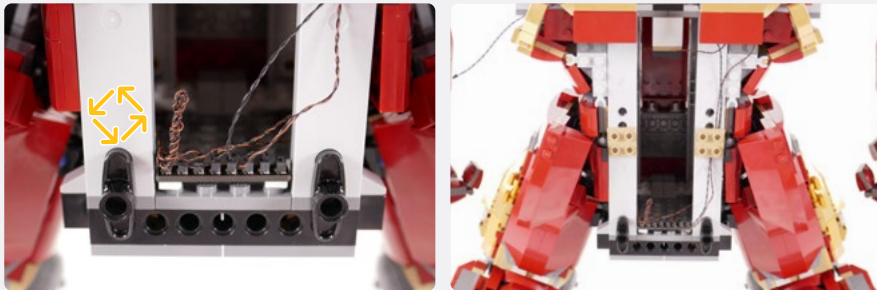


26

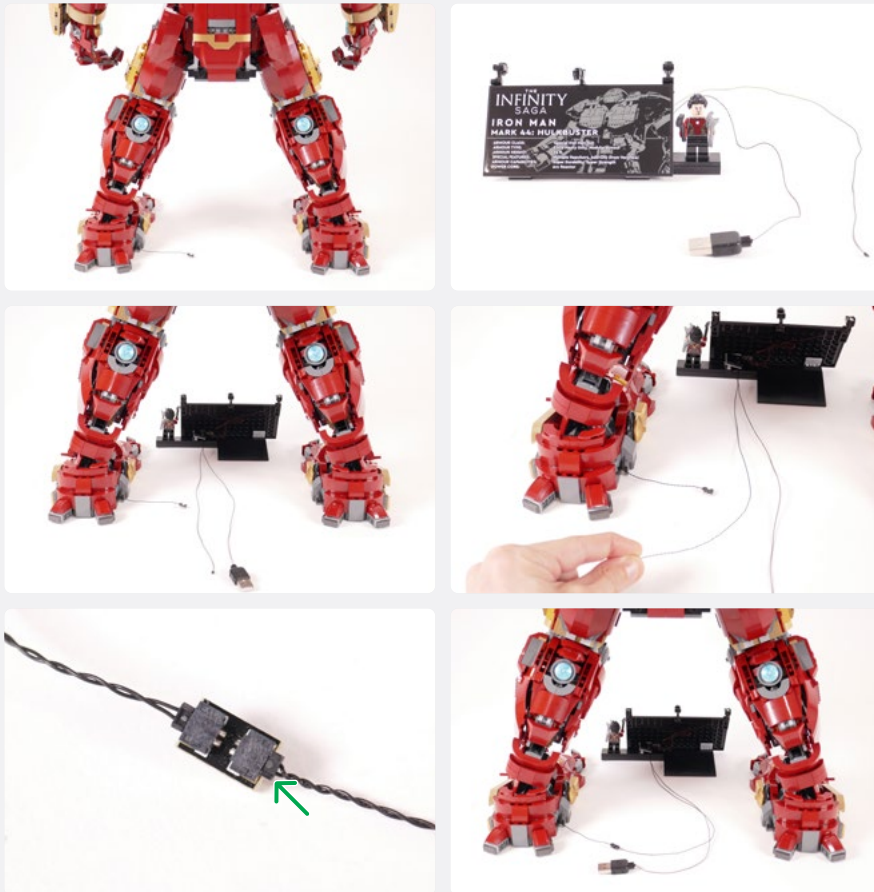


2x Adhesive Square



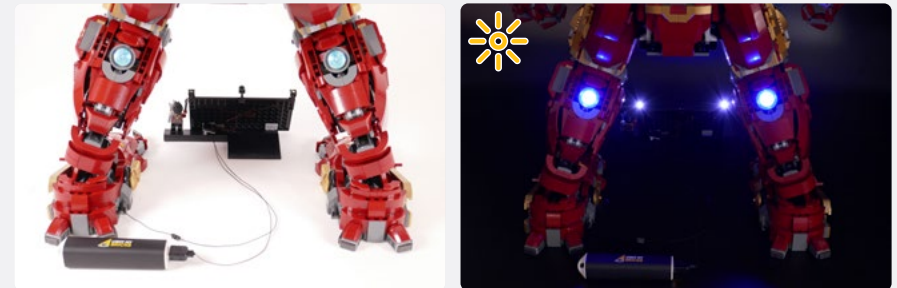


27

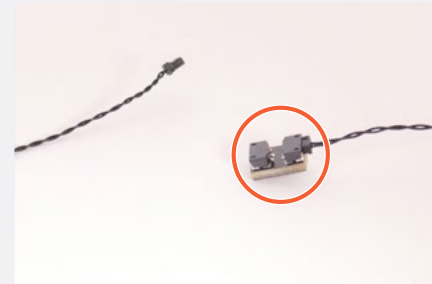


NOTE

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

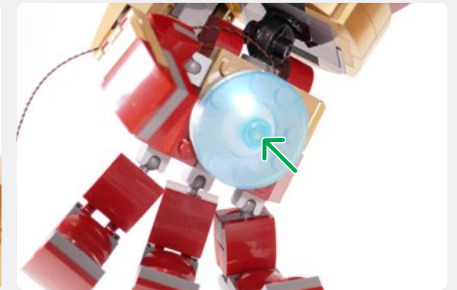
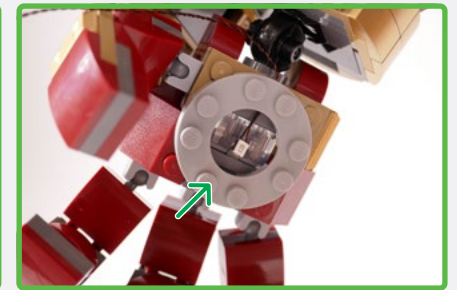


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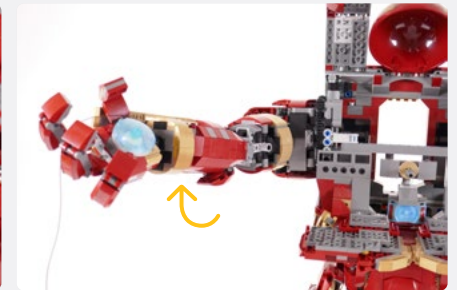


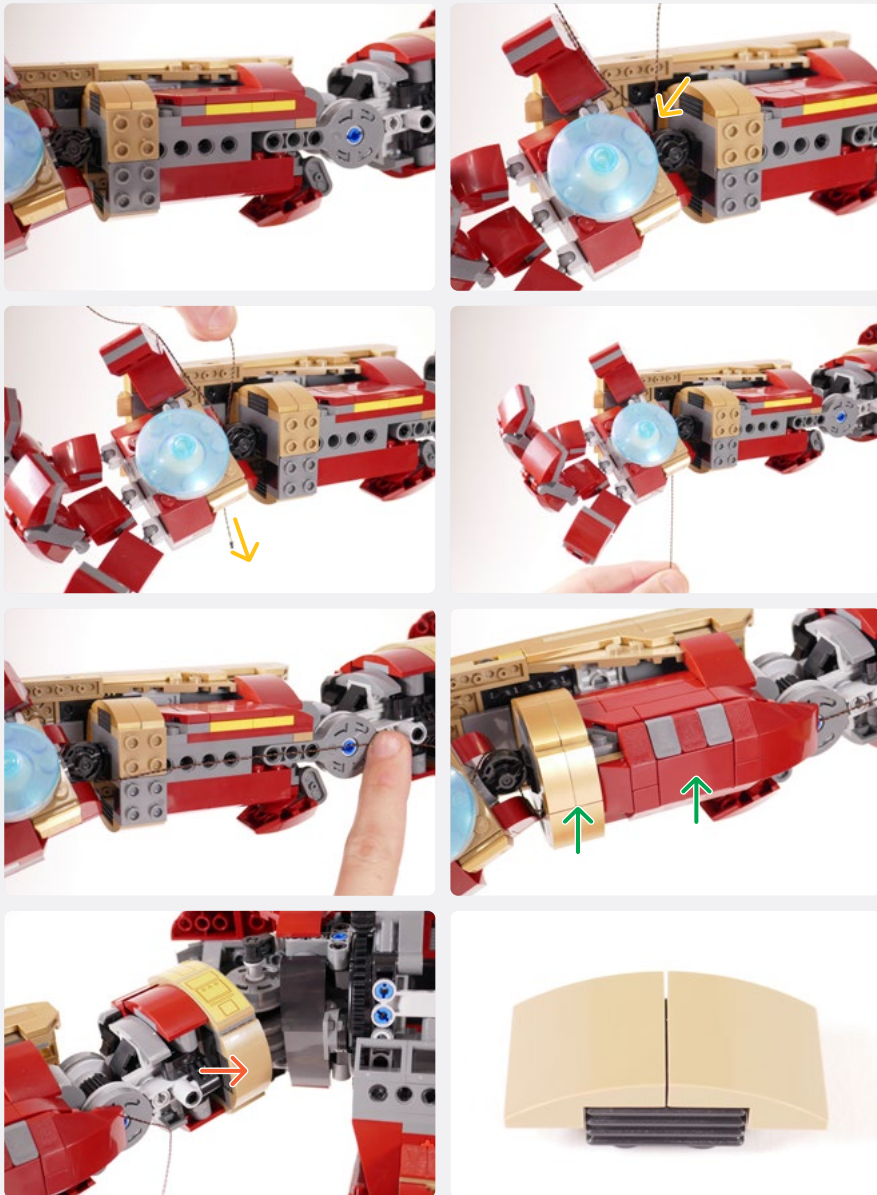
NOTE

Ensure that the Bit Light LED is positioned at the centre of the Light Grey Round Plate.



29



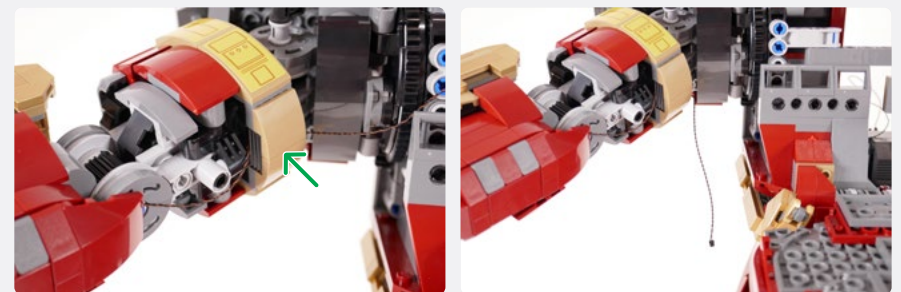




NOTE

Ensure to leave some excess cable in the following area, this will allow the arm to move more freely.



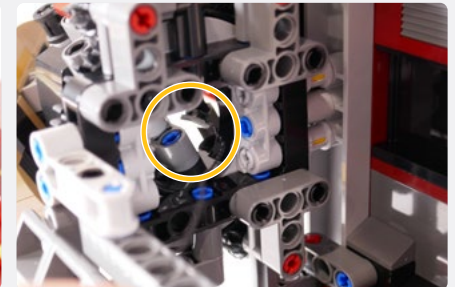
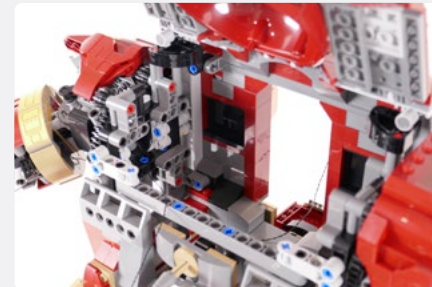
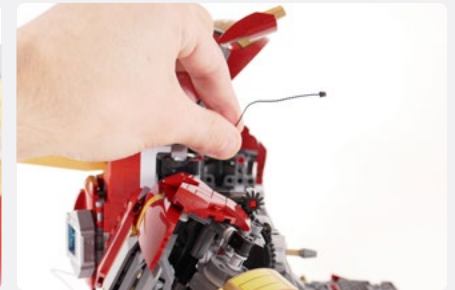
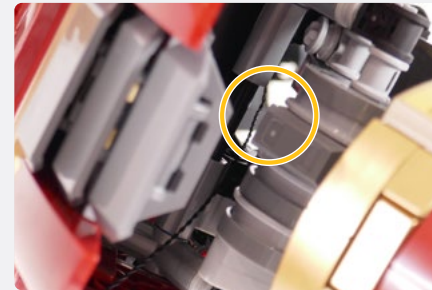
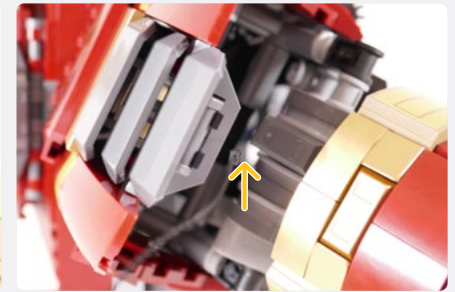
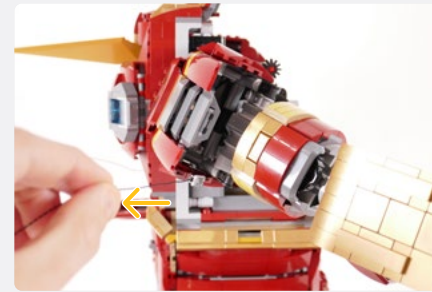
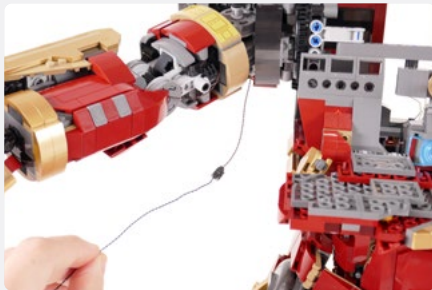
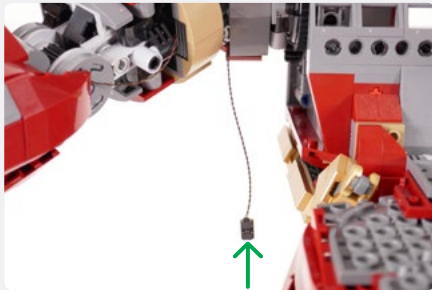


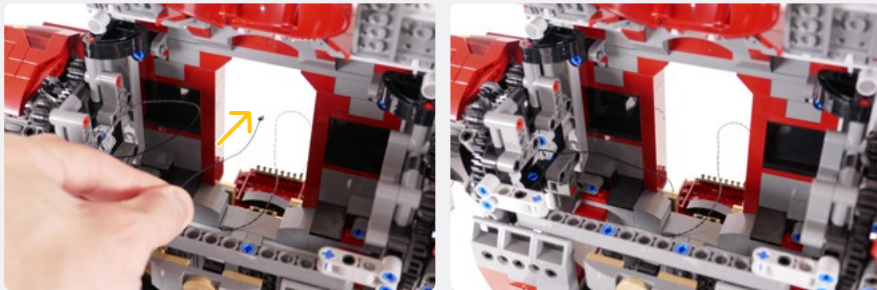
30

2-Port Expansion Board



30cm Connecting Cable



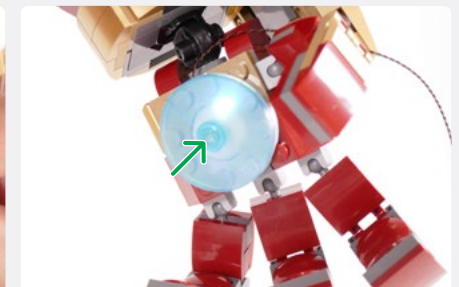
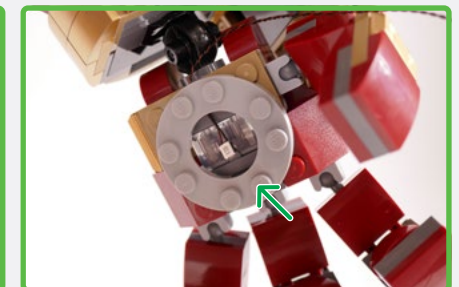


Blue 30cm Large Bit Light



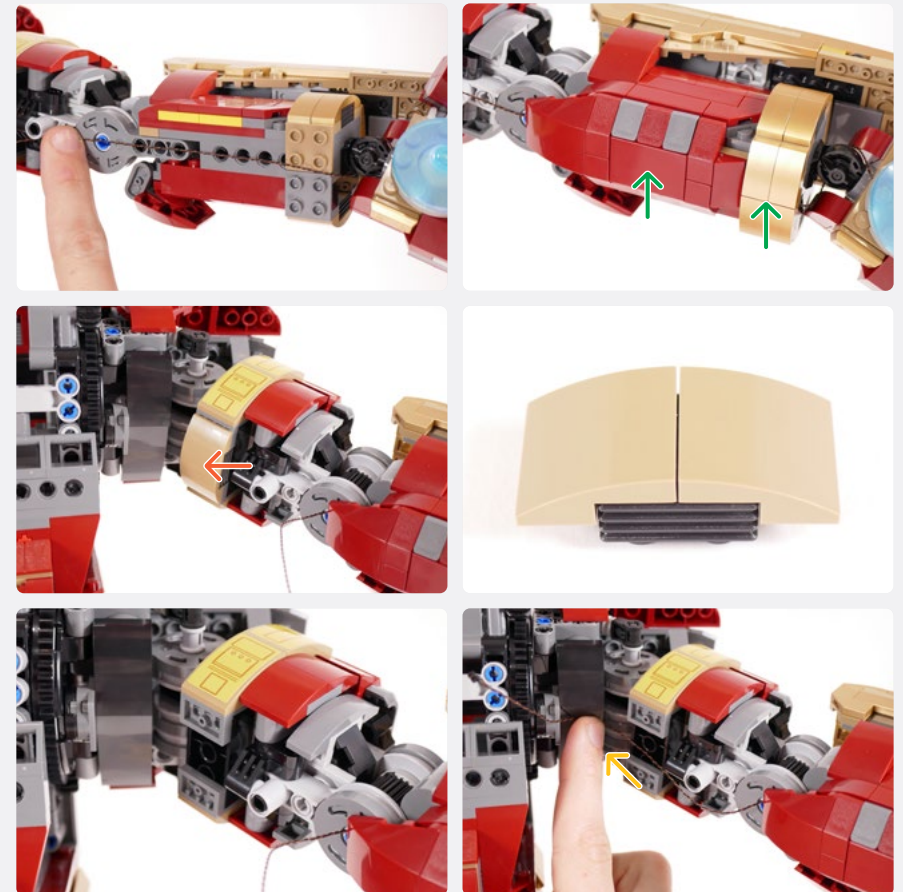
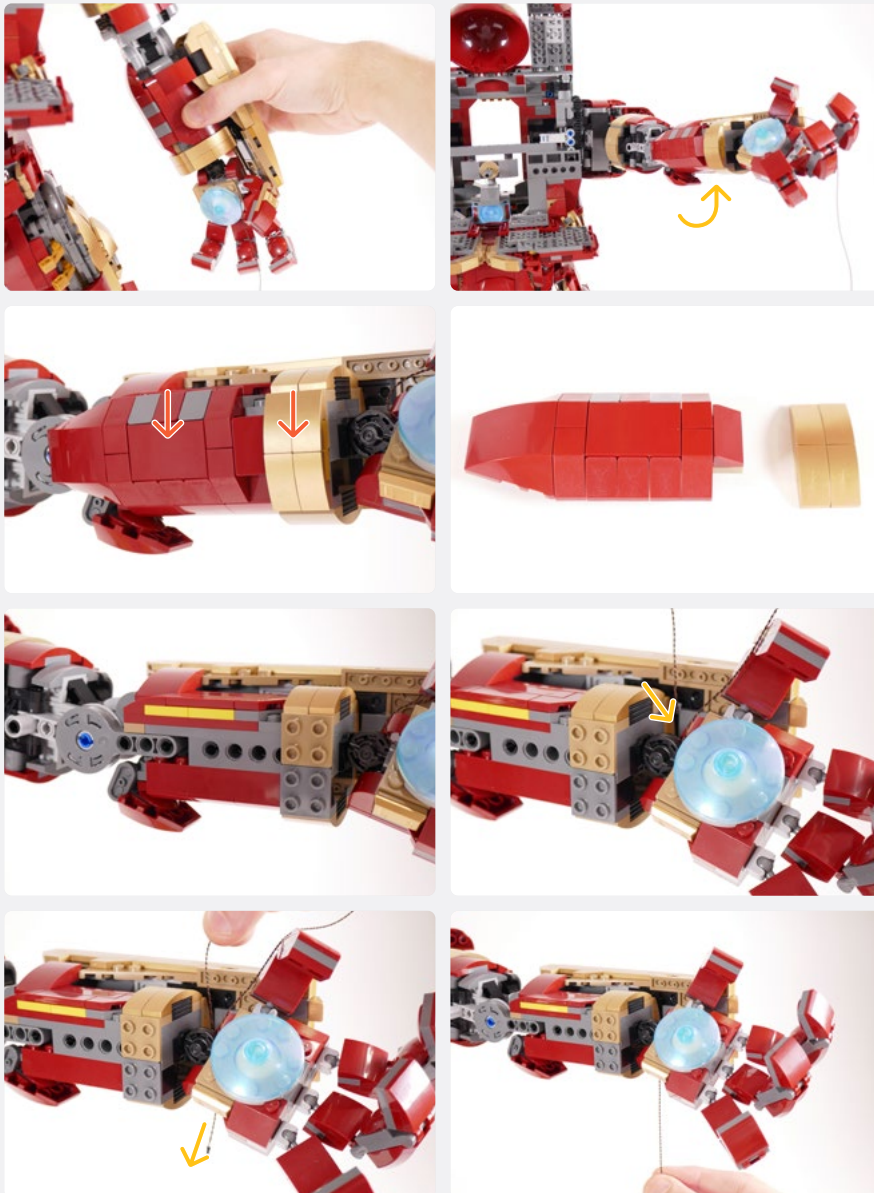
NOTE

Ensure that the Bit Light LED is positioned at the centre of the Light Grey Round Plate.



31

29



NOTE

Ensure to leave some excess cable in the following area, this will allow the arm to move more freely.

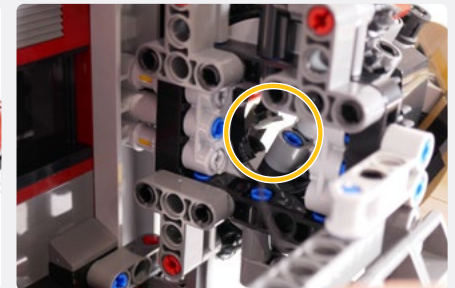
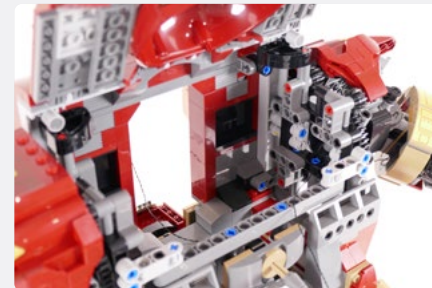
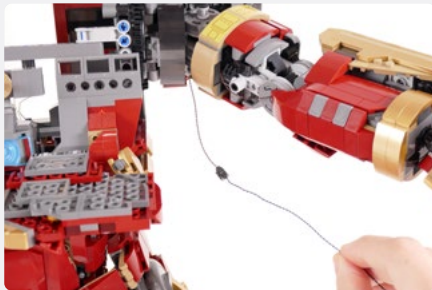
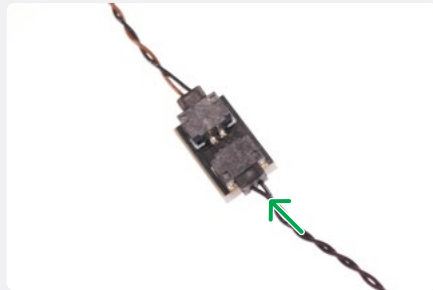
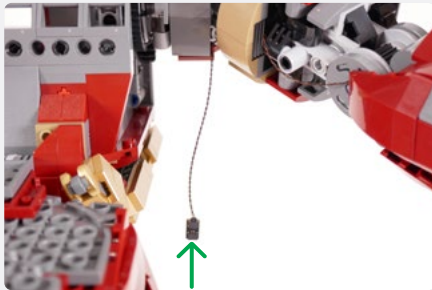


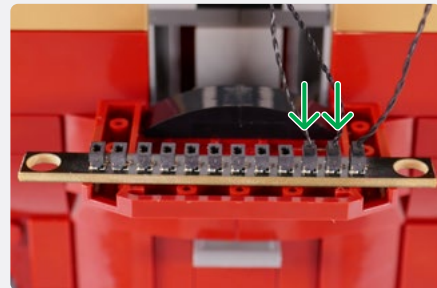
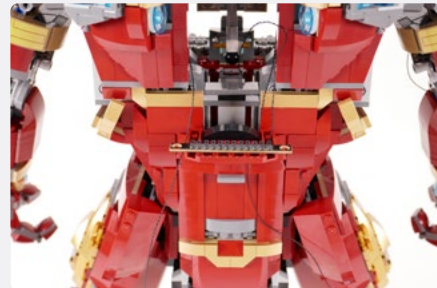
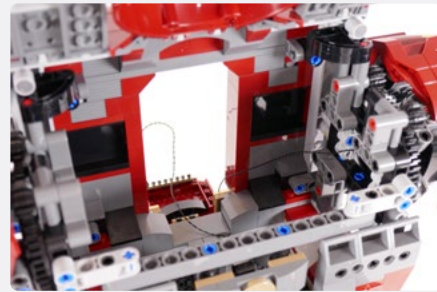
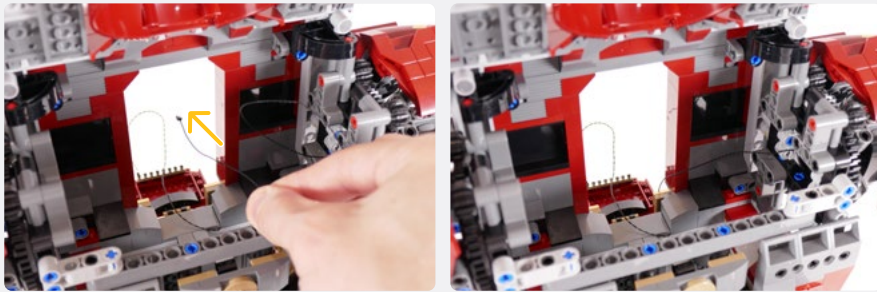
30

2-Port Expansion Board

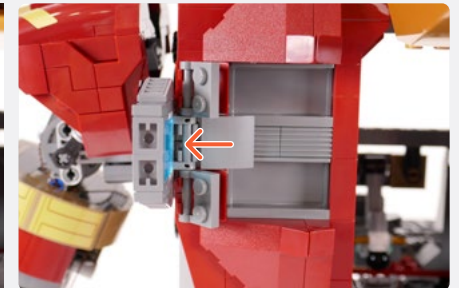
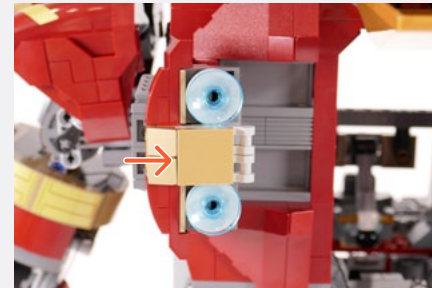
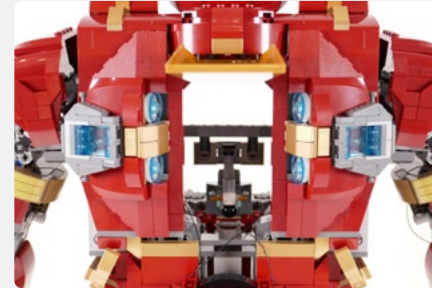


30cm Connecting Cable

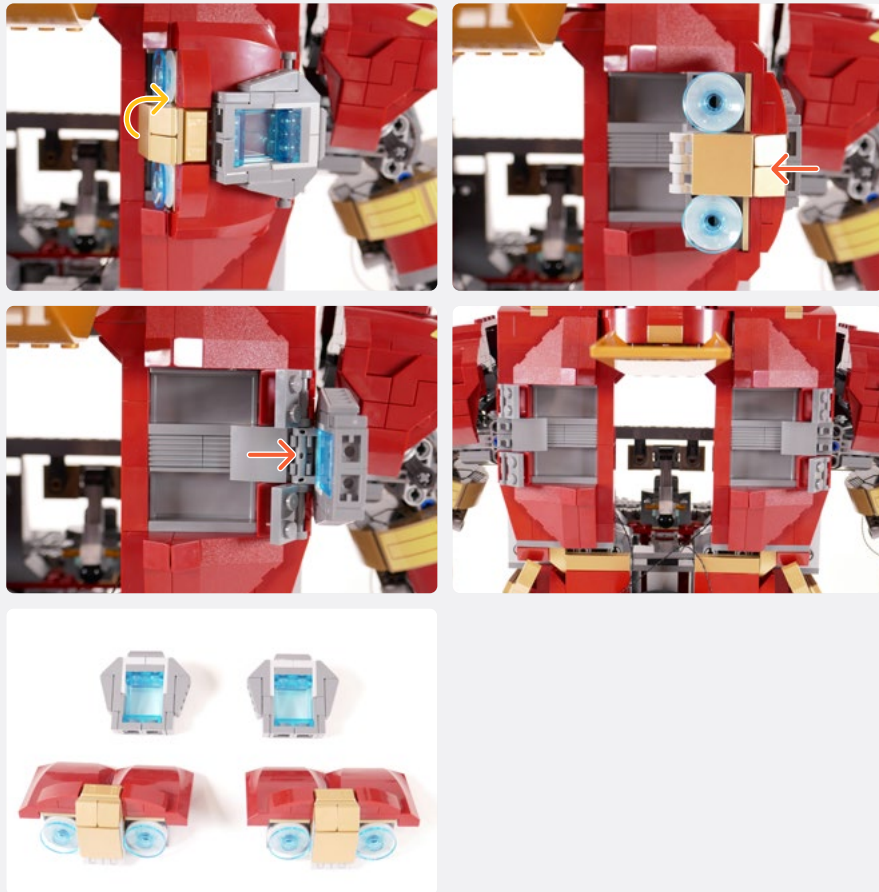




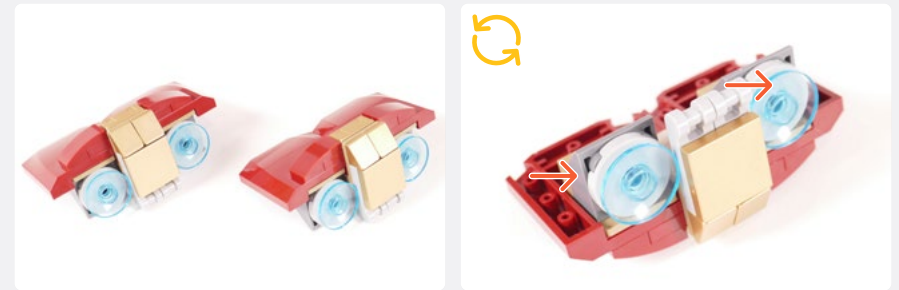
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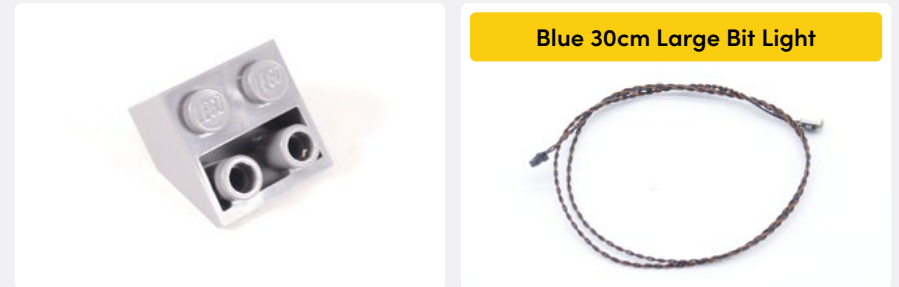
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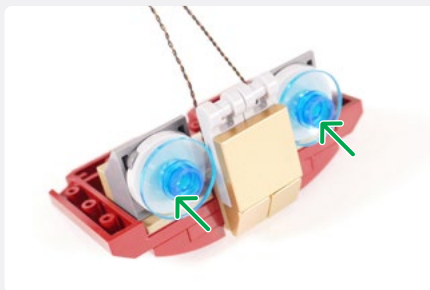
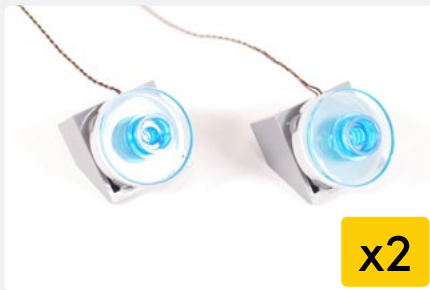
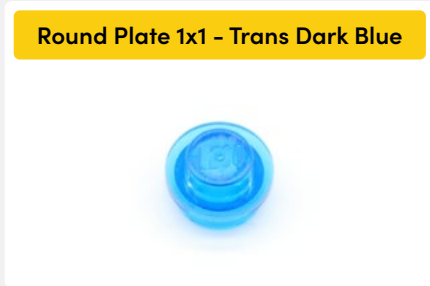


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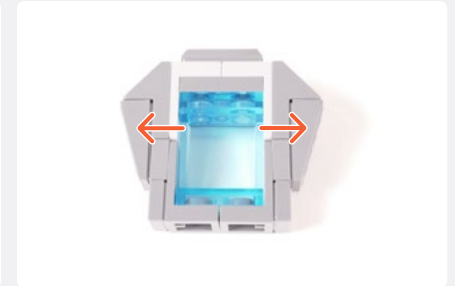
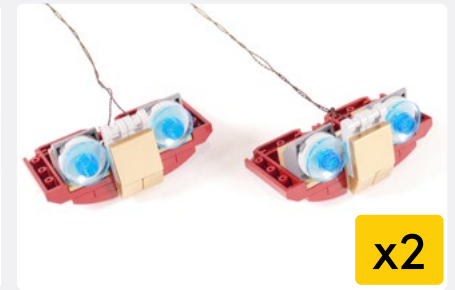


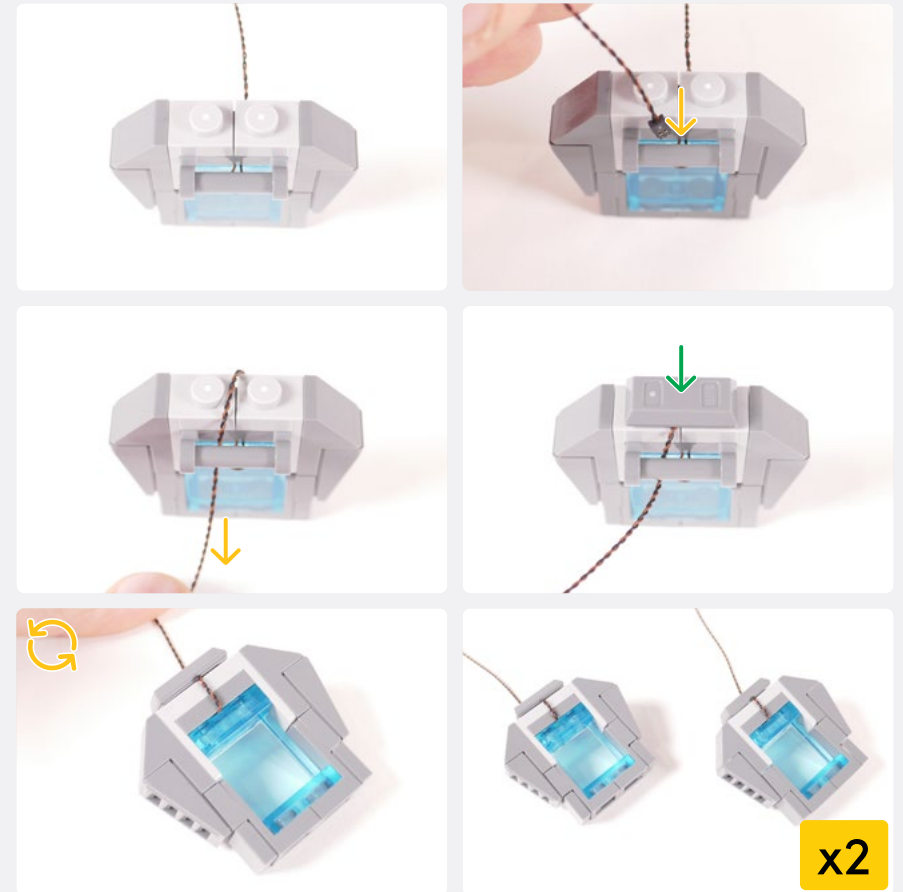
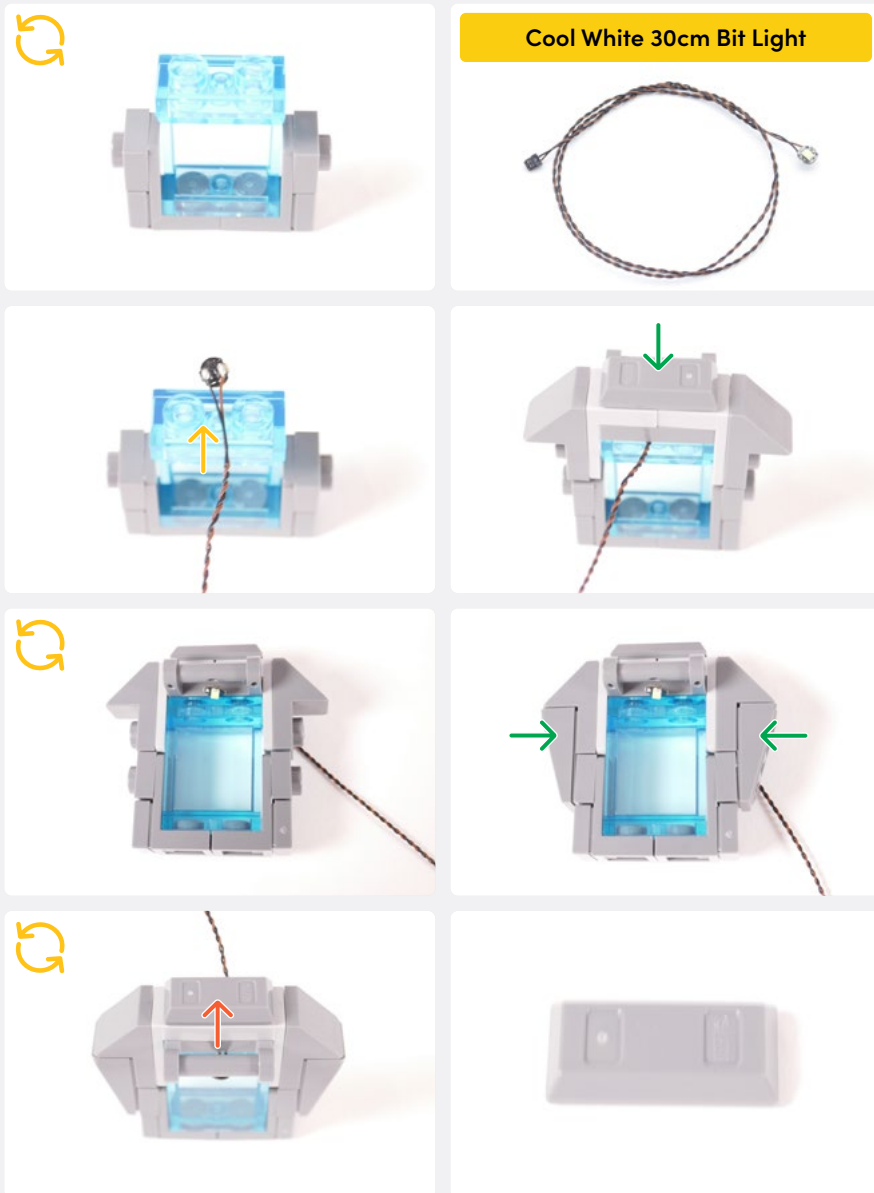
Blue 30cm Large Bit Light



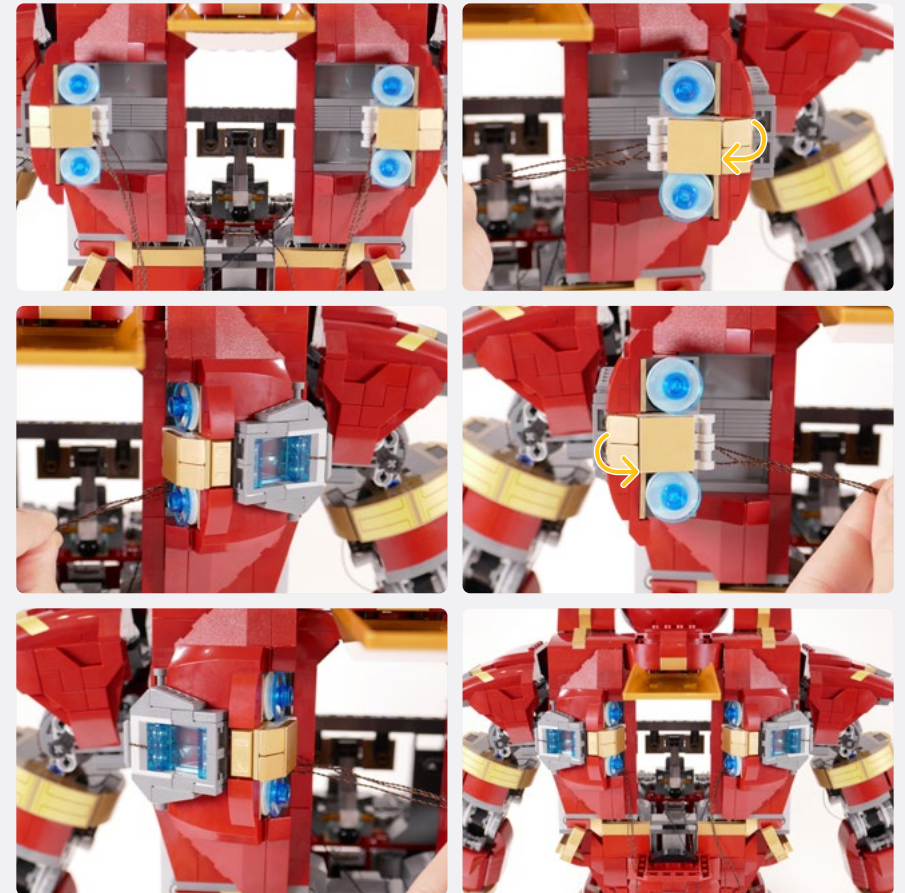
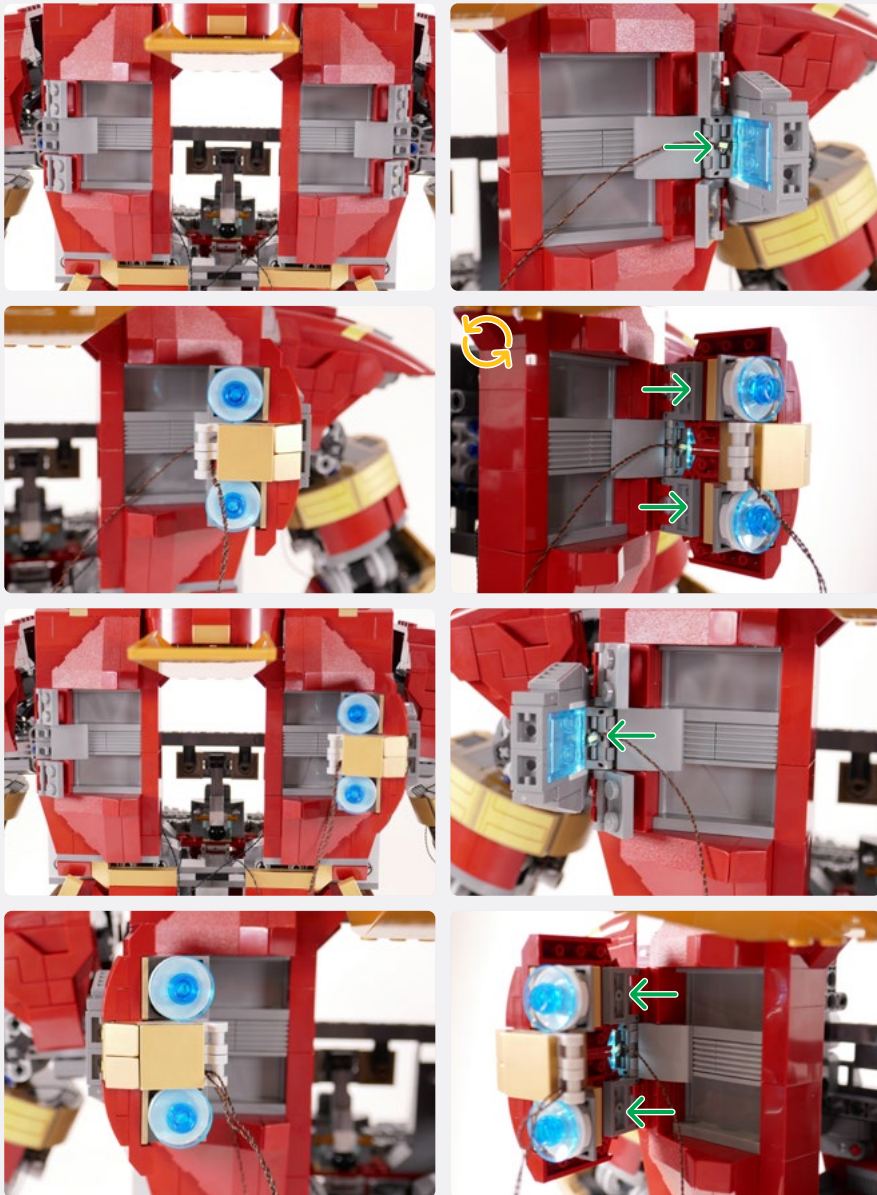


34

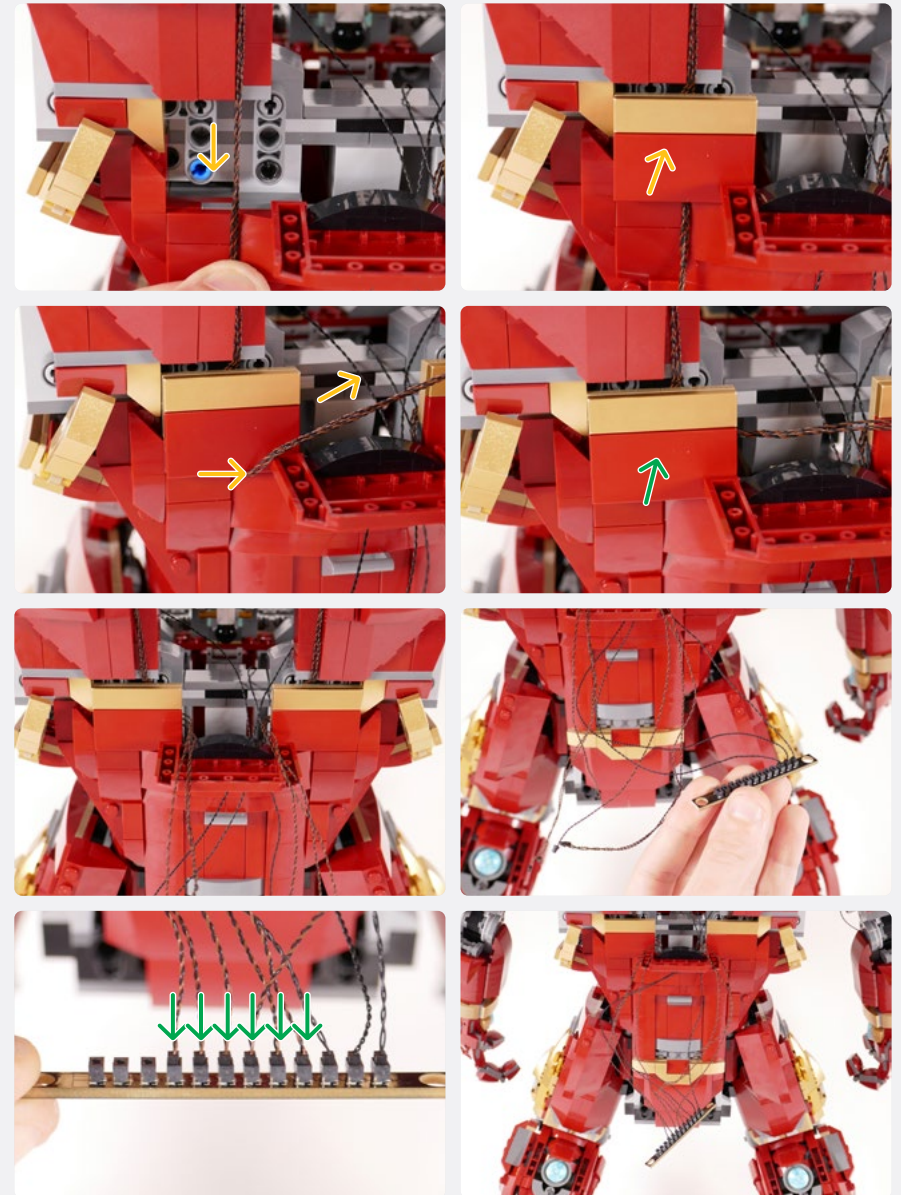
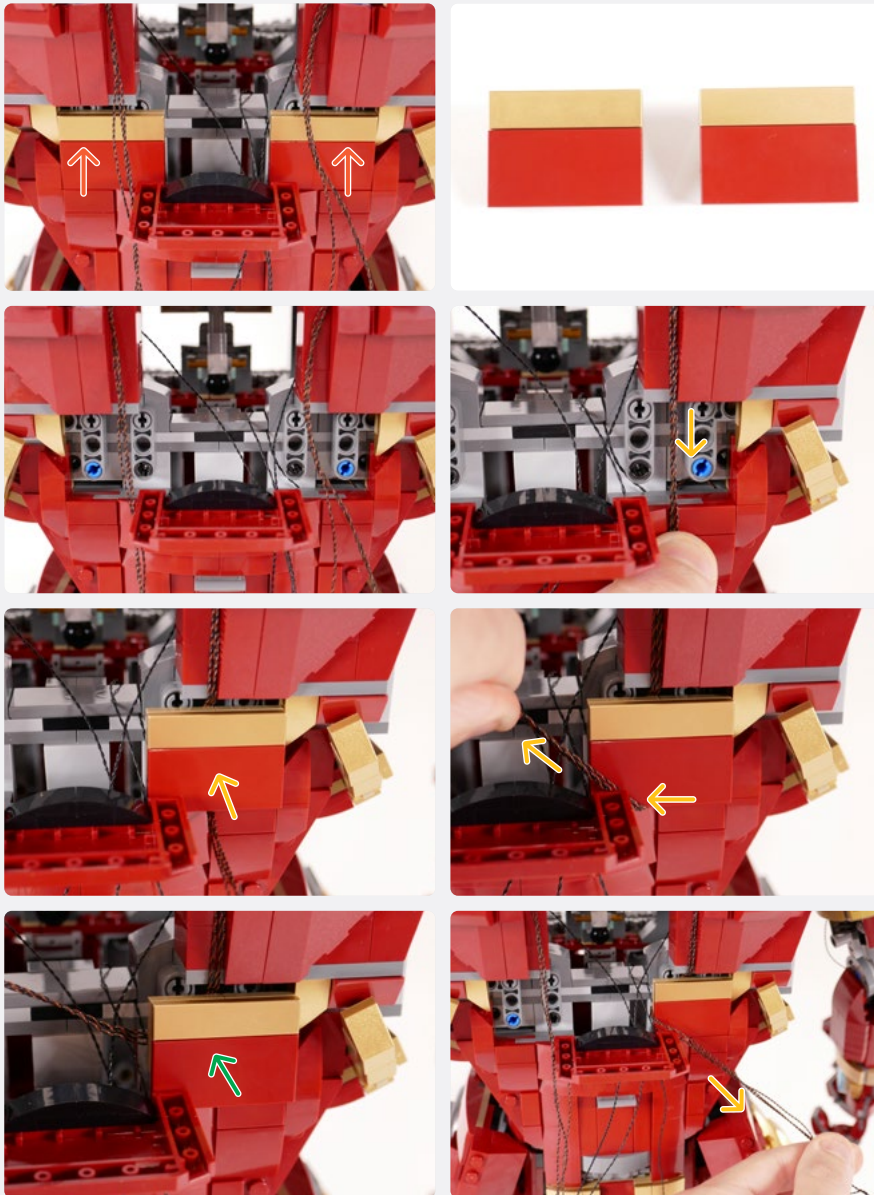




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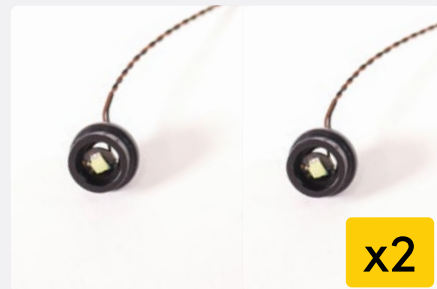


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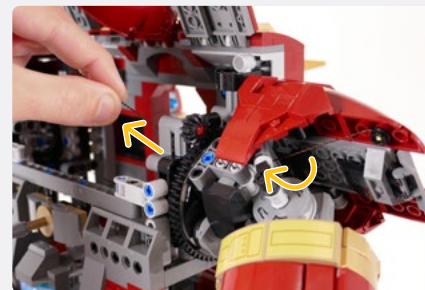
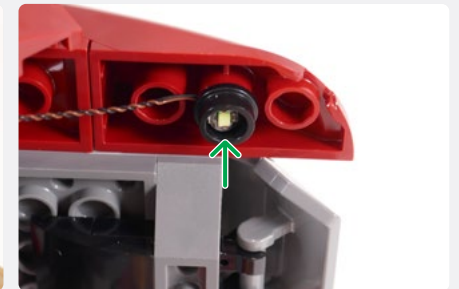
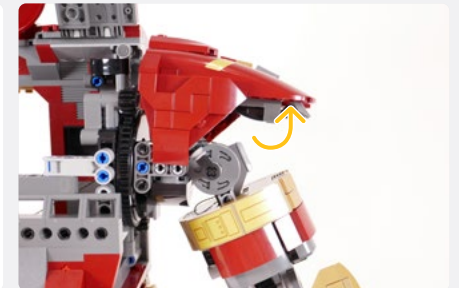
Cool White 30cm Bit Light

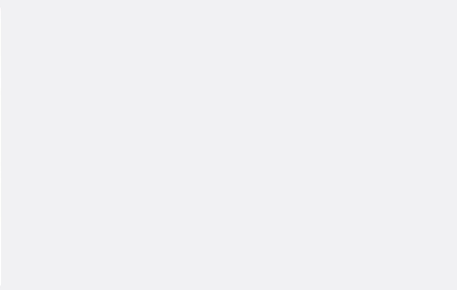
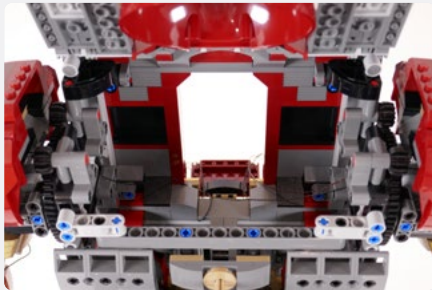
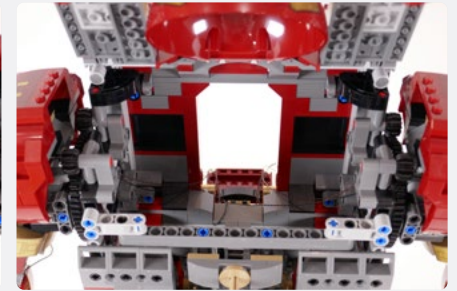
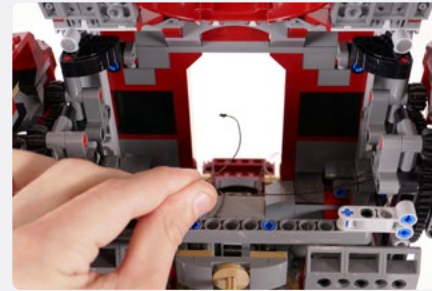
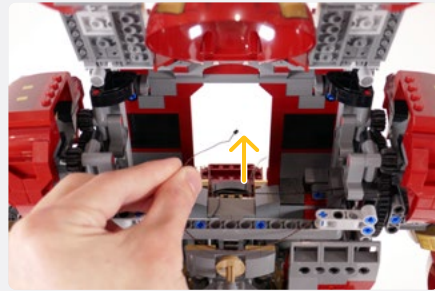
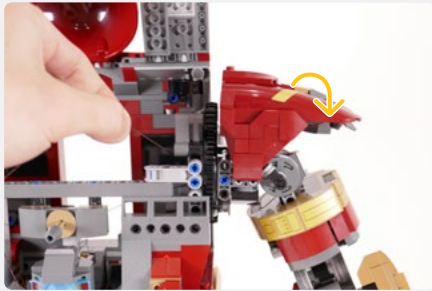


Round Plate 1x1 Open Stud - Black

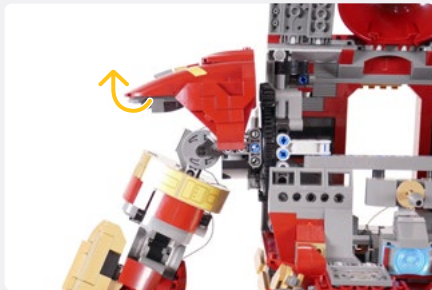


38

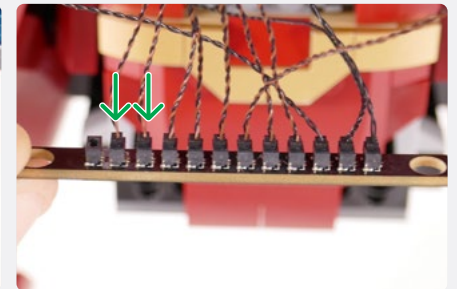
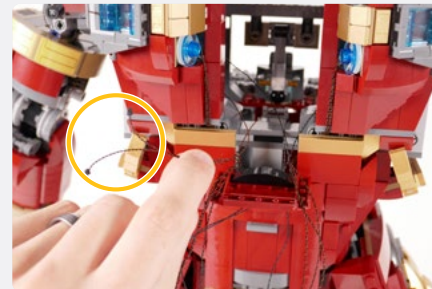
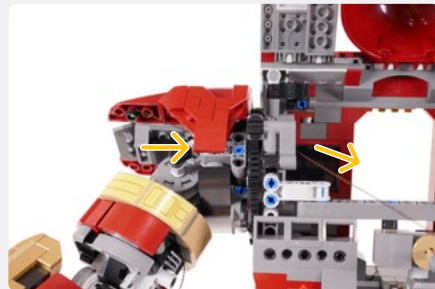
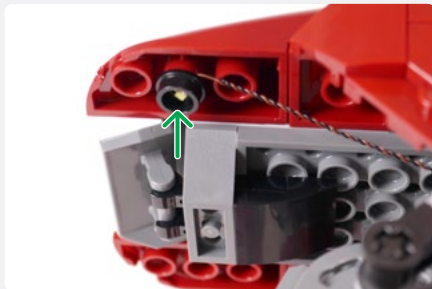


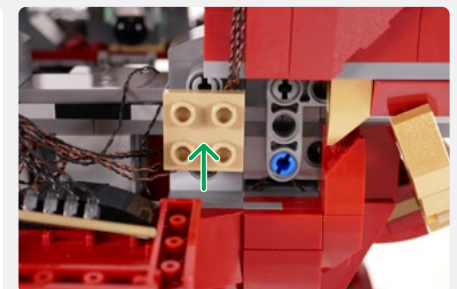
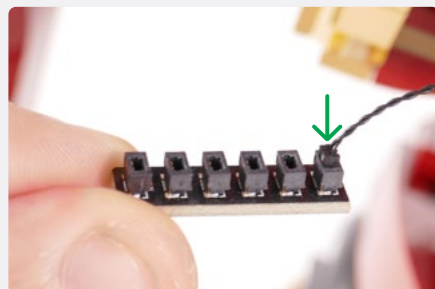
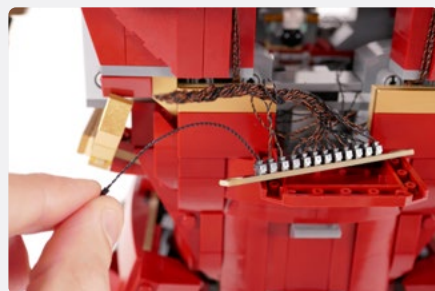
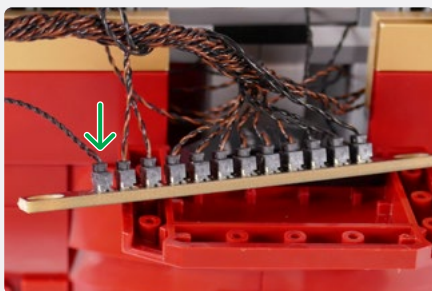
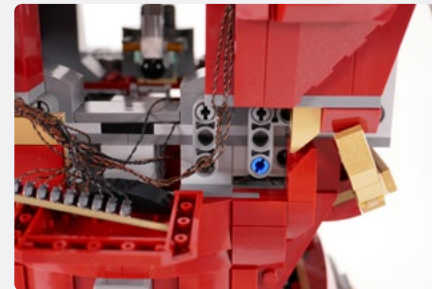
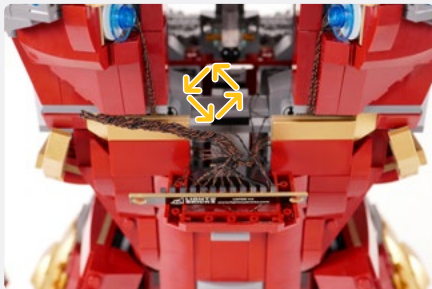
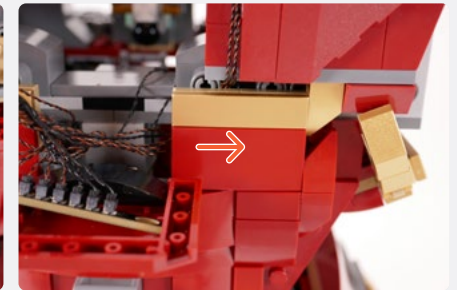
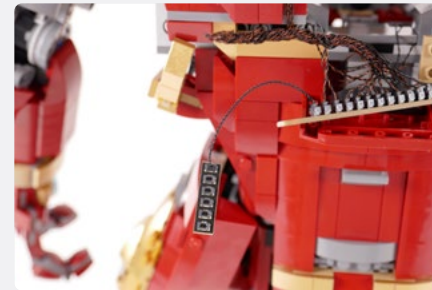
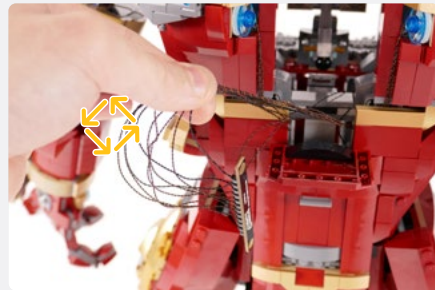


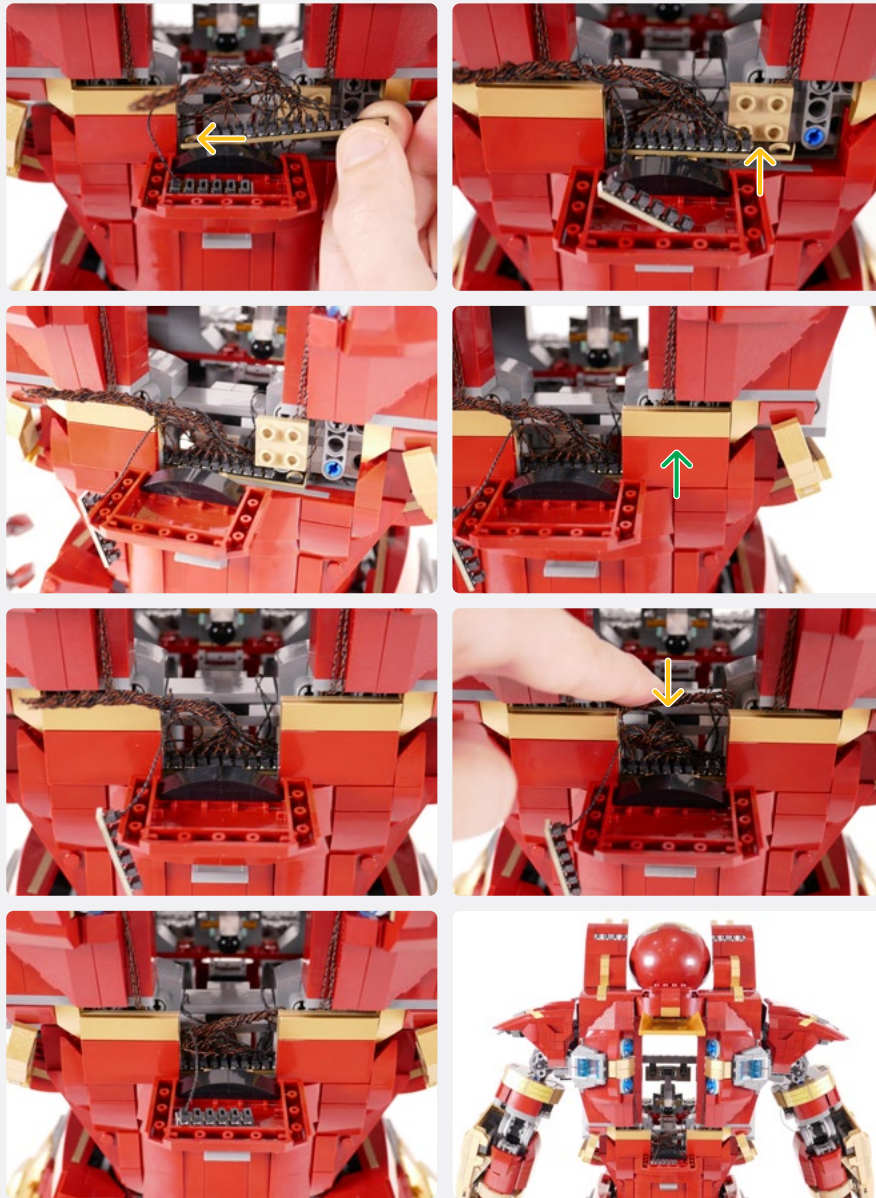
39



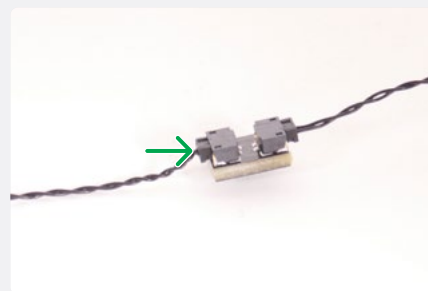
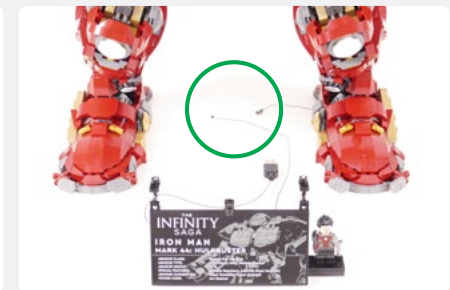
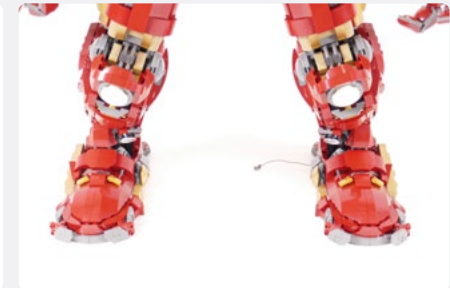
40







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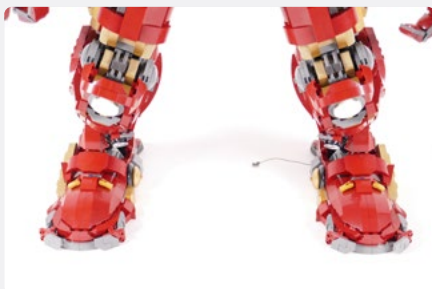
NOTE

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



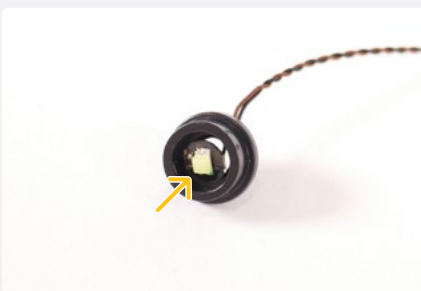
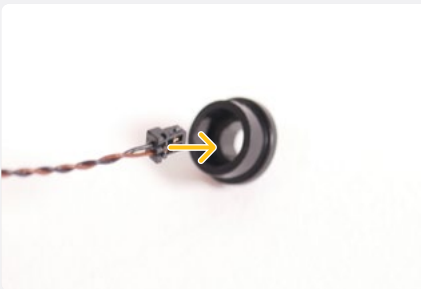


! If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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



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Cool White 30cm Bit Light



Round Plate 1x1 Open Stud - Black

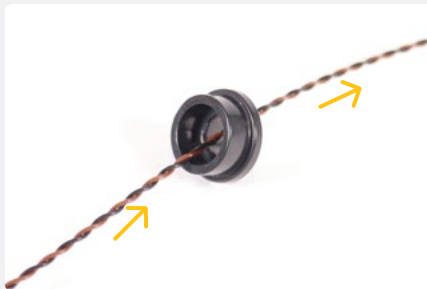


Plate 1x2 Mod W/ Handle On End - Black

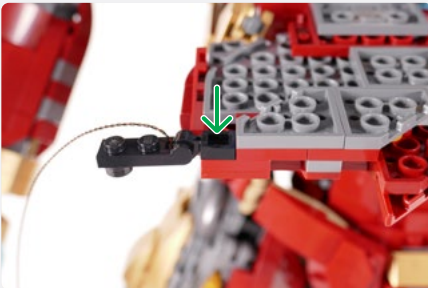
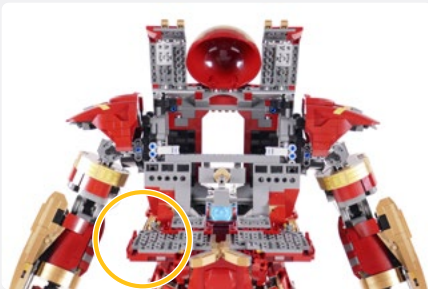
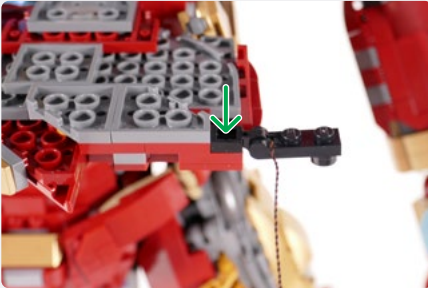
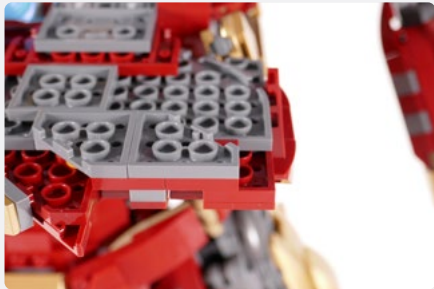


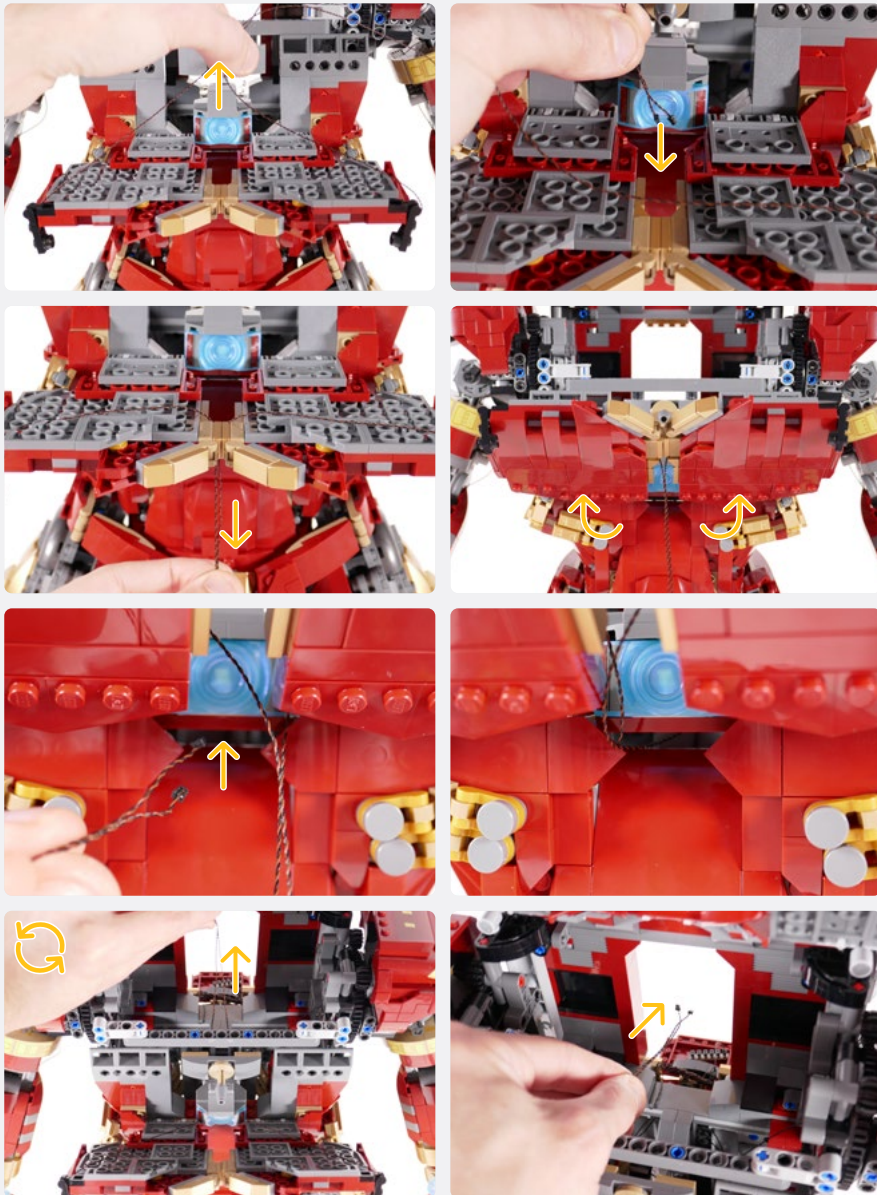


Plate 1x1 Mod W/ Horizontal Clip
- Black



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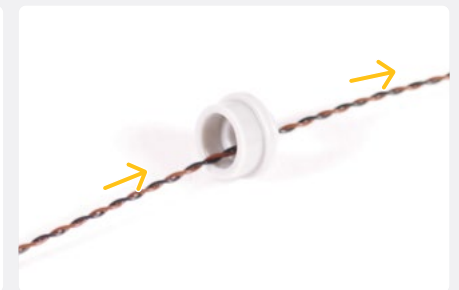
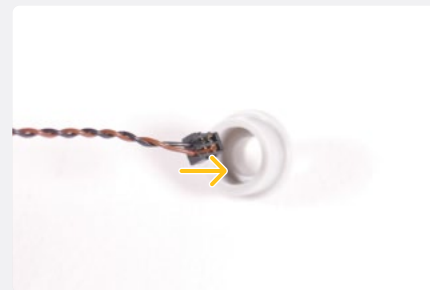
44



Cool White 30cm Large Bit Light

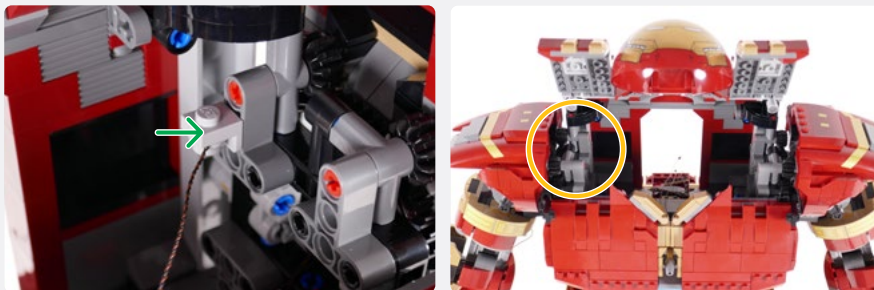
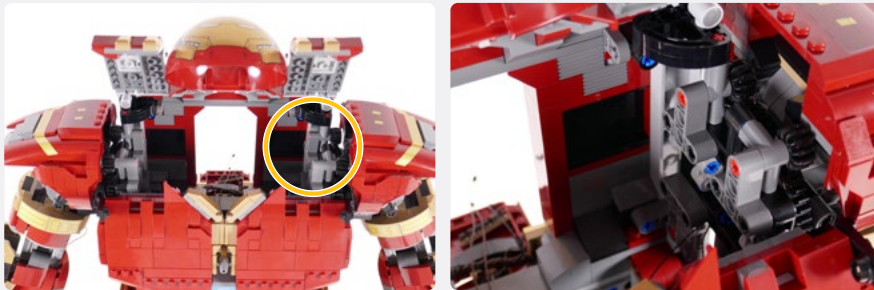
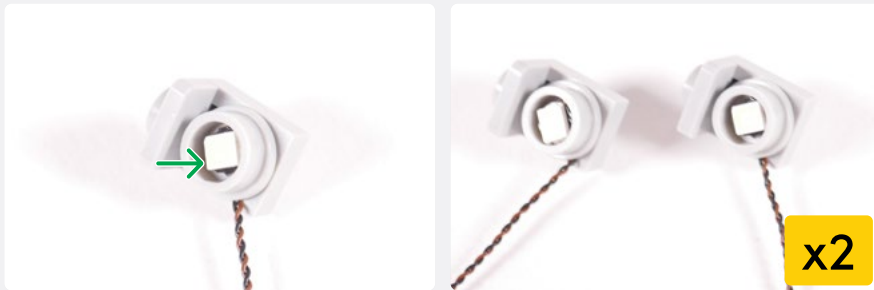



Round Plate 1x1 Open Stud - Light Grey



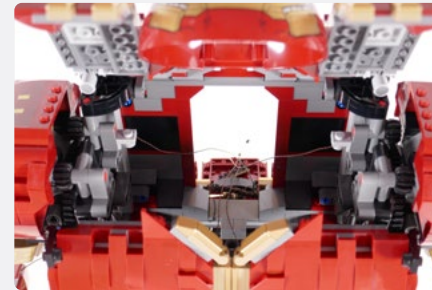
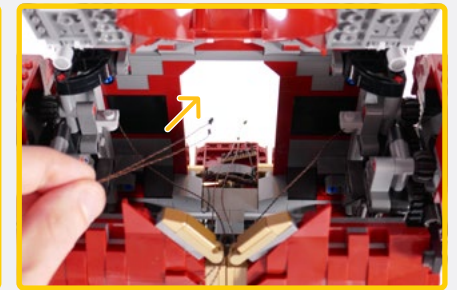
Bracket 1x1 - Light Grey



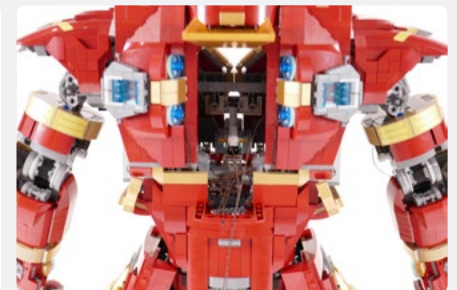



 **NOTE**

Thread both Bit Lights to the back side.

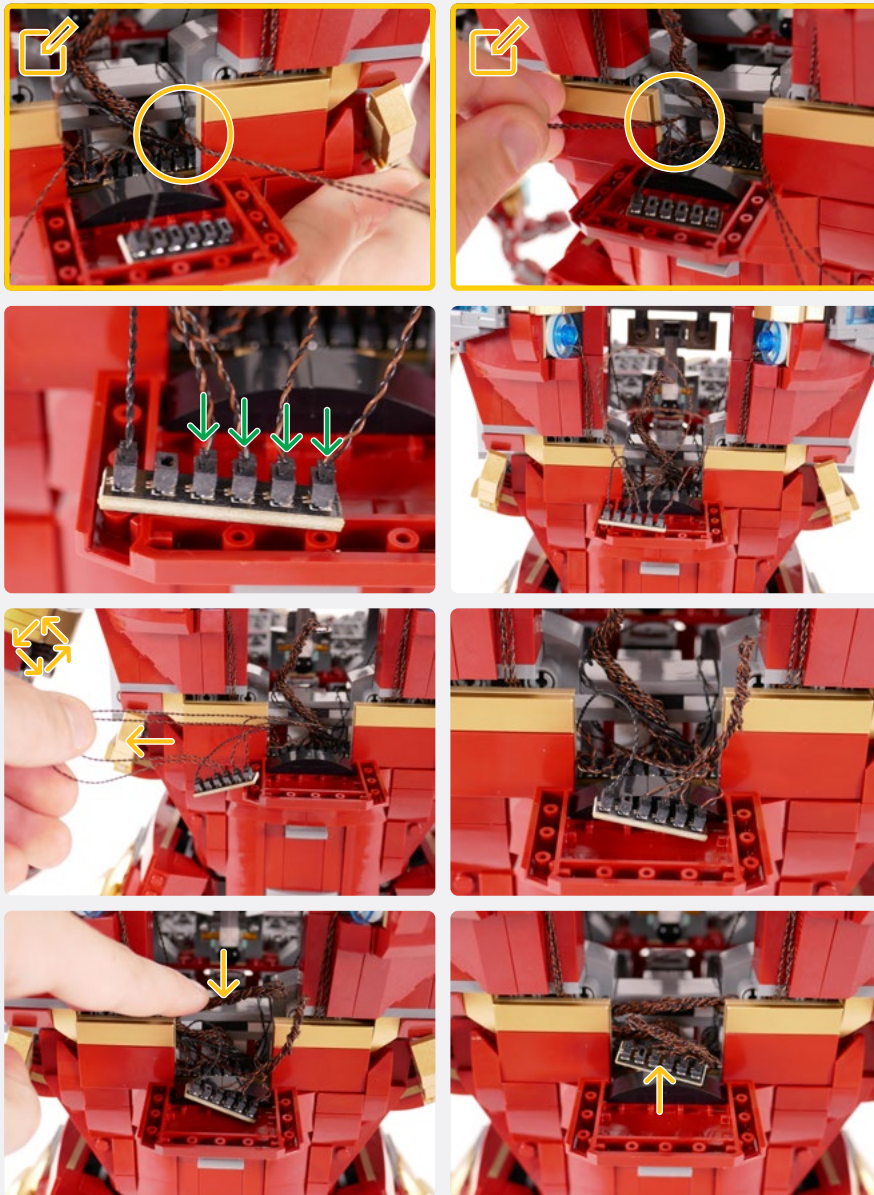


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 **NOTE**

Thread the 4 Bit Light Cables below the Light Grey piece as shown in the next two frames.

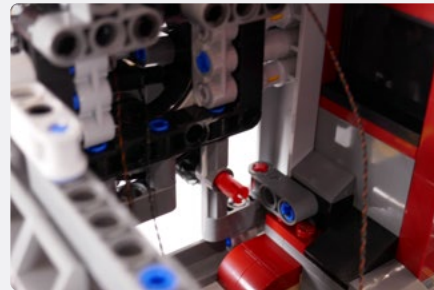
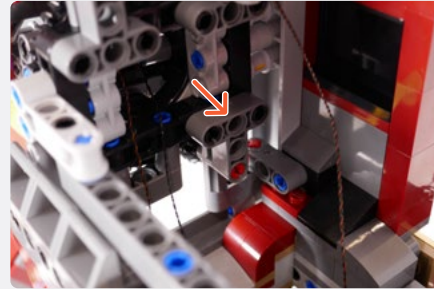


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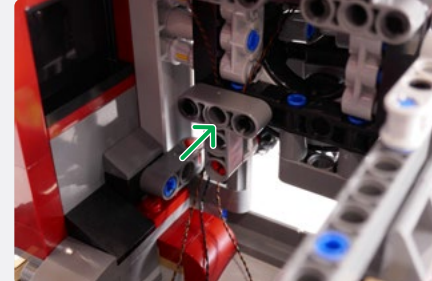
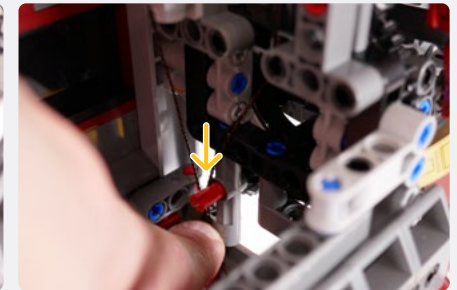
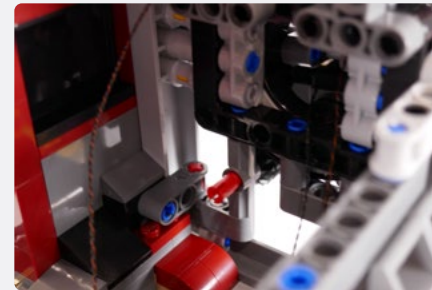
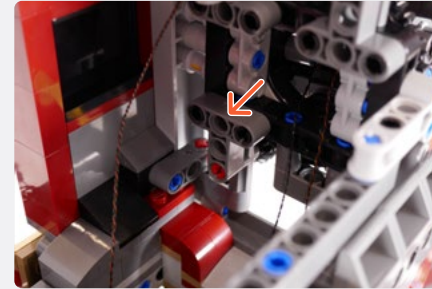
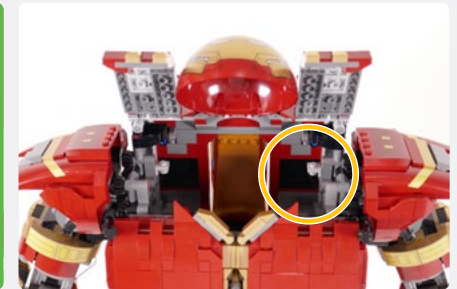
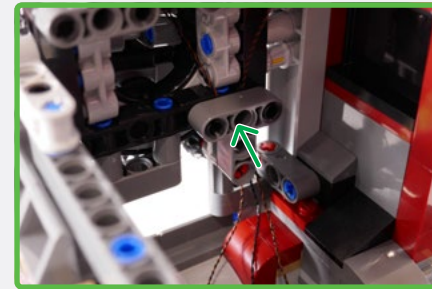
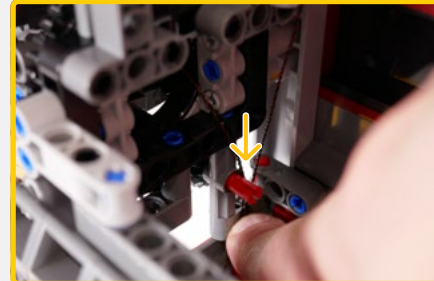
NOTE

The following steps are to neaten up the cables on the interior of the Hulkbuster. This is to fit LEGO Iron Man 76206 inside comfortably.

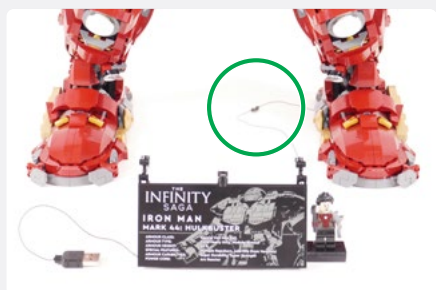
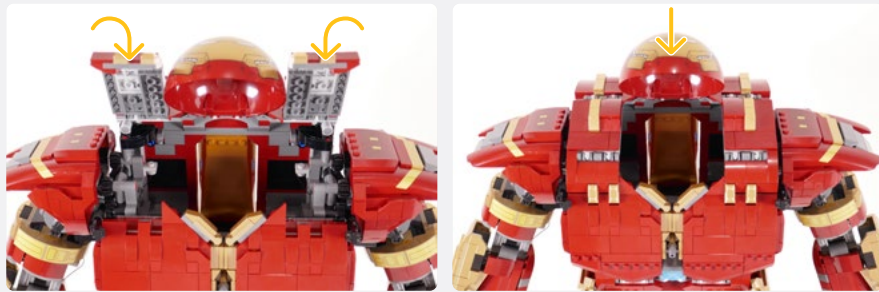



NOTE

Grab the 3x Bit Light Cables on the left side interior and pull them down like so. Then Using the T-Shape Technic Piece to pin the cables back.




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 **NOTE**

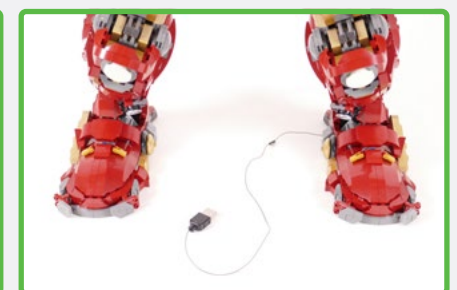
Connect to a 5V USB Power Bank, 5V USB Wall Adaptor, or USB to AA Battery Pack (sold separately)



! 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. 

 **NOTE**

Optional - Hulkbuster Light Kit can be powered directly through USB Power Cable without the addition of the Plark Display.



FINAL PRODUCT

This finally completes installation of the Light My Bricks

LEGO® Hulkbuster 76210 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.

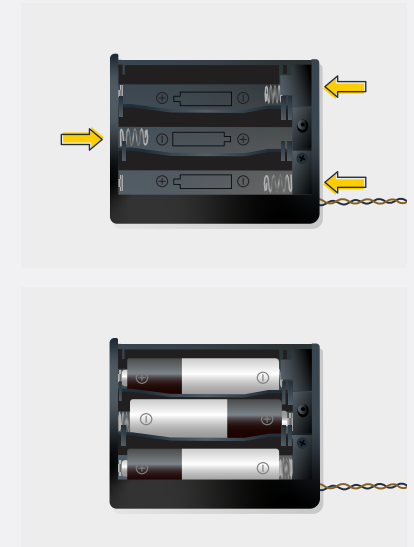
If the batteries have no power, replace the batteries.

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

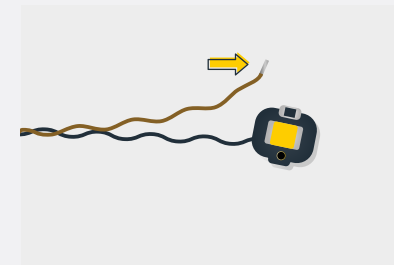
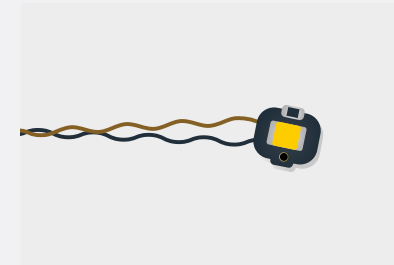
In order for Light My Bricks components to fit in between and underneath LEGO® bricks, the components need to be very small. Due to this nature, Light My Bricks components can be easily damaged when not handled correctly.

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.



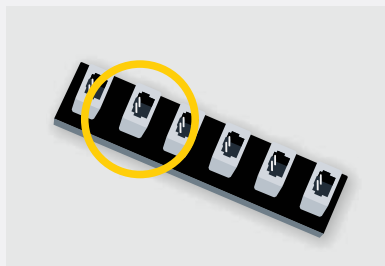
Troubleshooting

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.

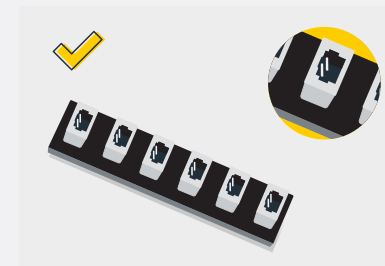
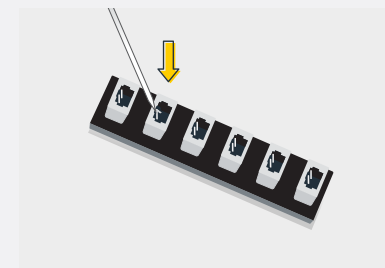
Not only will a light connected to the damaged port not work, but if the pins inside the port are bent to a point they are touching each other, this can result in all other lights in the system to stop working. This is a short circuit.



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!



lightmybricks.com