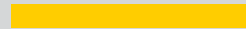




**LIGHT<sup>MY</sup>  
BRICKS**



# **LEGO® UCS AT-AT #75313 LIGHT KIT INSTALLATION GUIDE**

# Light My Bricks



## LEGO® UCS AT-AT #75313 LIGHT KIT INSTALLATION GUIDE

Hi There!

We're here to help you get started on the LEGO®  
UCS AT-AT (75313) Light Kit.

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

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

Have fun and enjoy!

INSTALLATION GUIDE



## PACKAGE CONTENTS:



11 x Cool White 30cm Bit Lights  
13 x Cool White 15cm Bit Lights  
4 x Yellow 15cm Bit Lights  
4 x White 15cm Bit Lights  
8 x Red 30cm Bit Lights  
1 x Blue 30cm Bit Light  
1 x Green 30cm Bit Light



4 x 6-Port Expansion Boards  
2 x 12-Port Expansion Boards  
2 x Rotating Sequence Boards (RSB)



3 x Multi Effects Boards (3PFX)



8 x 5cm Connecting Cables  
2 x 15cm Connecting Cables  
1 x 50cm Connecting Cable



1 x USB Power Cable  
(Power Source not Included)

## LEGO PIECES:

- 1 x Remote Control & Sound Board
- 1 x Remote Control
- 1 x IR Receiver w/ 30cm Cable
- 1 x Audio Speaker w/ 15cm Cable
- 1 x Micro SD Memory Card (128MB)
- 1 x Micro USB Cable (to transfer audio files from PC)

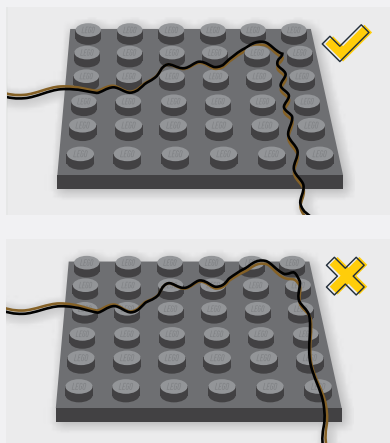
## EXTRA COMPONENTS INCLUDED WITH THE LIGHT & SOUND KIT:

- 1 x Black Plate 2x8
- 3 x Black Plate 2x6
- 2 x Dark Bluish Grey Plate 1x4
- 1 x Plate 1x6 (any colour)
- 1 x Dark Bluish Grey Plate 2x2
- 1 x Dark Bluish Grey Brick 2x2
- 4 x Black Round Brick 1x1 w open stud
- 1 x Trans Clear Tile 1x2

## Contents

Before You Begin	5
Blueprint	8
Instructions	9
Final Product	42
Troubleshooting	43
Contact	48

## Before You Begin



### Laying cables in between and underneath bricks

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

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

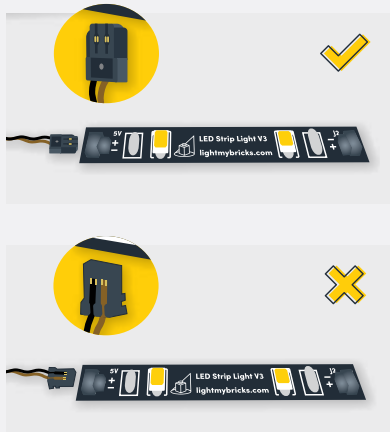


### Connecting Cable Connectors To Expansion Boards

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

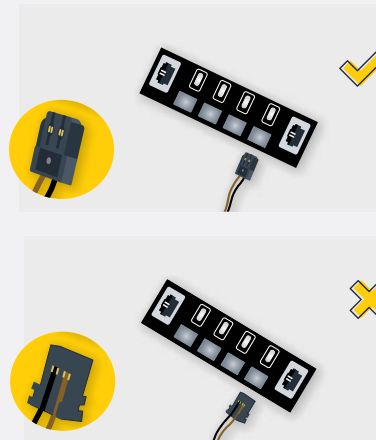
*Incorrectly inserting the connector can result in bent pins inside the port or possible overheating of the expansion board when connected.*

## Before You Begin



### Connecting Cable Connectors To Strip Lights

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



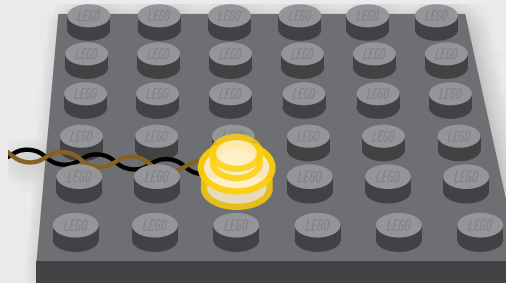
### Connecting Micro Cable Connectors To Micro Expansion Board Ports

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

## Before You Begin

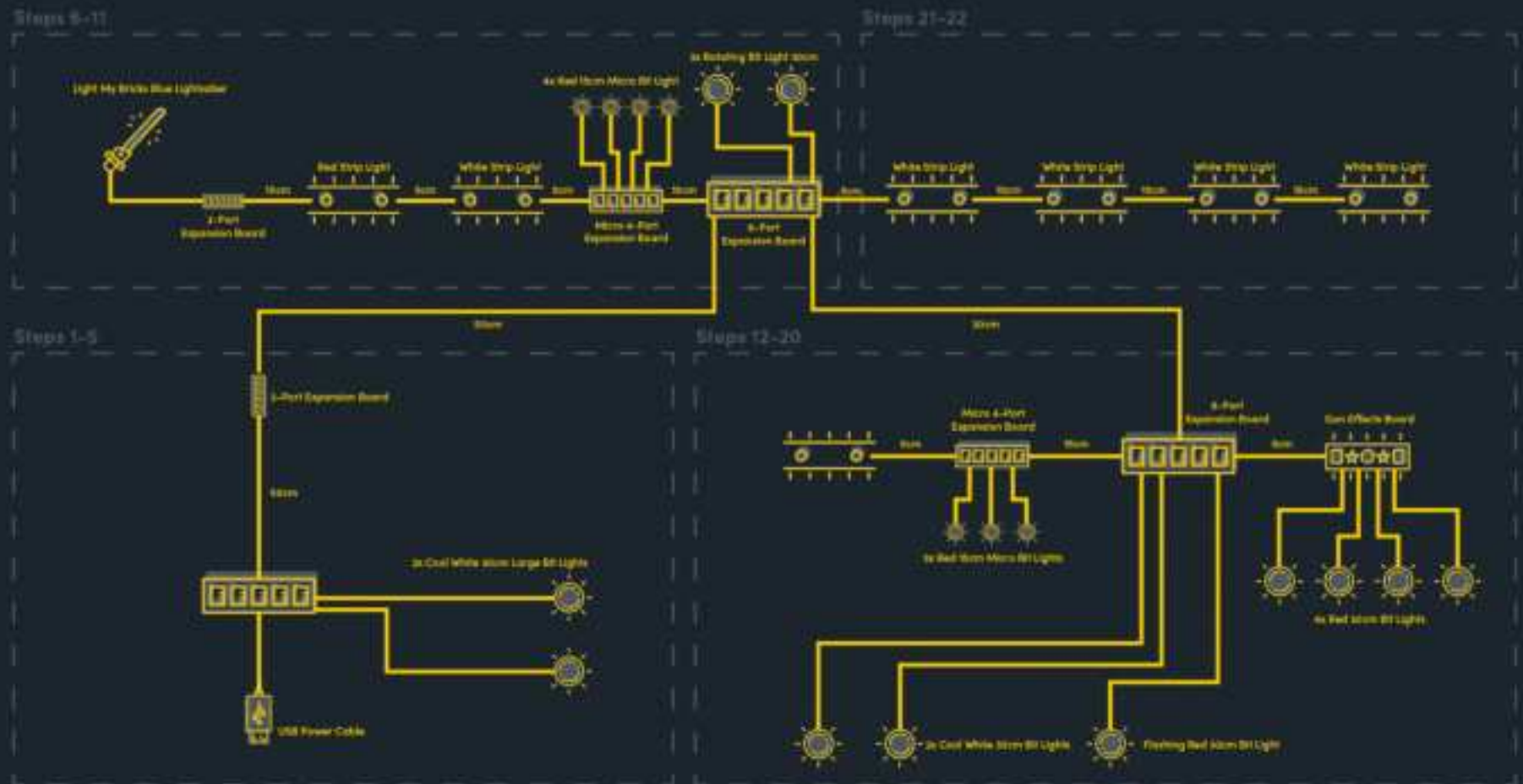
### Installing Bit Lights Under Lego® Bricks And Plates

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





# BLUEPRINT







# 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.



LEGEND:



DISCONNECT



LEGENDE:



TRENNEN



LÉGENDE:



DÉCONNECTER



LEGGENDA:



SCOLLEGARE



CONNECT / RECONNECT



VERNINDEN / WIEDERVERBINDEN



CONNECTER / RECONNECTER



CONNETTI / RICONNETTI



TURN / FLIP



WENDEN / KIPPEN



TOUR / INCLINAISON



ROTARE / INCLINARE



DIRECTIONAL



DIRECTIONAL



DIRECTIONNEL



DIREZIONALE



TWIST / BRAID



DREHEN / VERDREHEN



TORSION / TRESSER



TWIST / TRECCIA



POWER ON / TEST



EINSCHALTEN / TESTEN

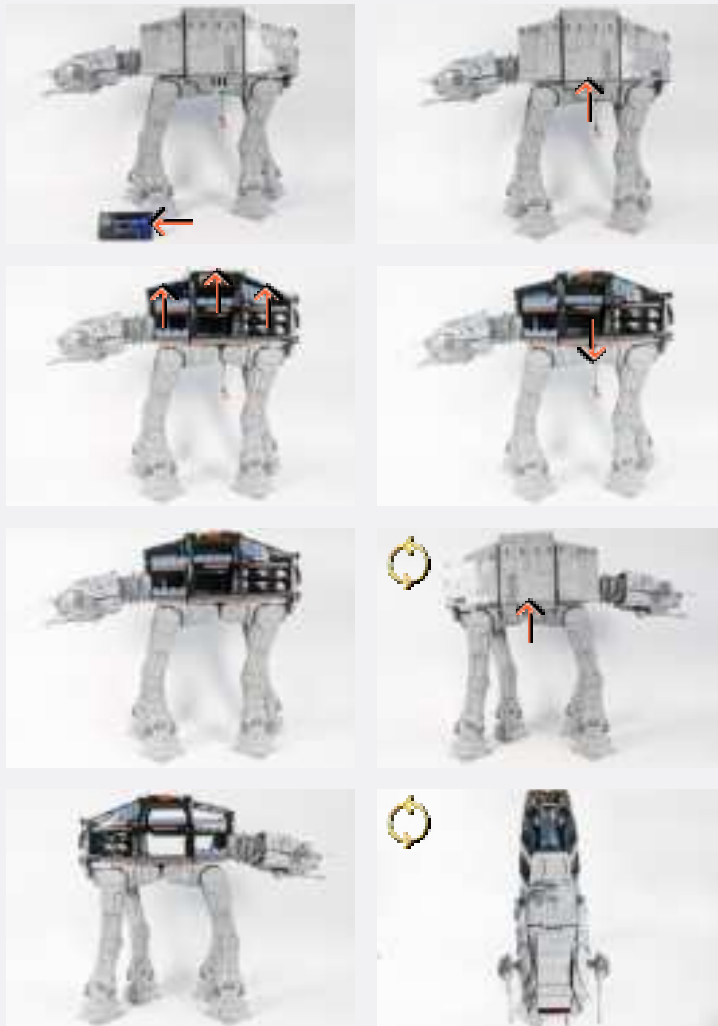


POWER ON / TEST



POWER ON / TEST

1

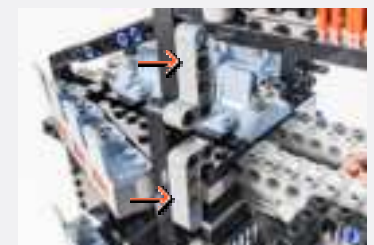
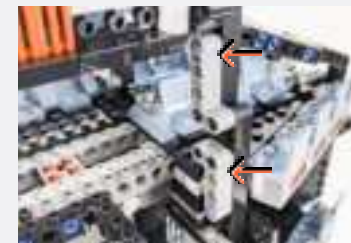
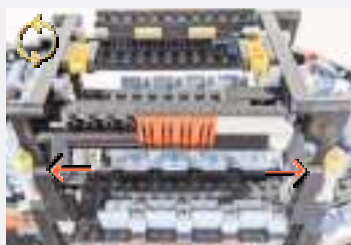
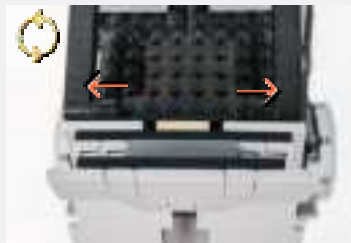


Make sure to support the head with your hand when removing the red axle.

## Legend

→ DISCONNECT → CONNECT / RECONNECT ↺ TURN / FLIP → DIRECTIONAL ↻ TWIST / BRAID \* POWER ON TEST 📝 NOTE ICON

2

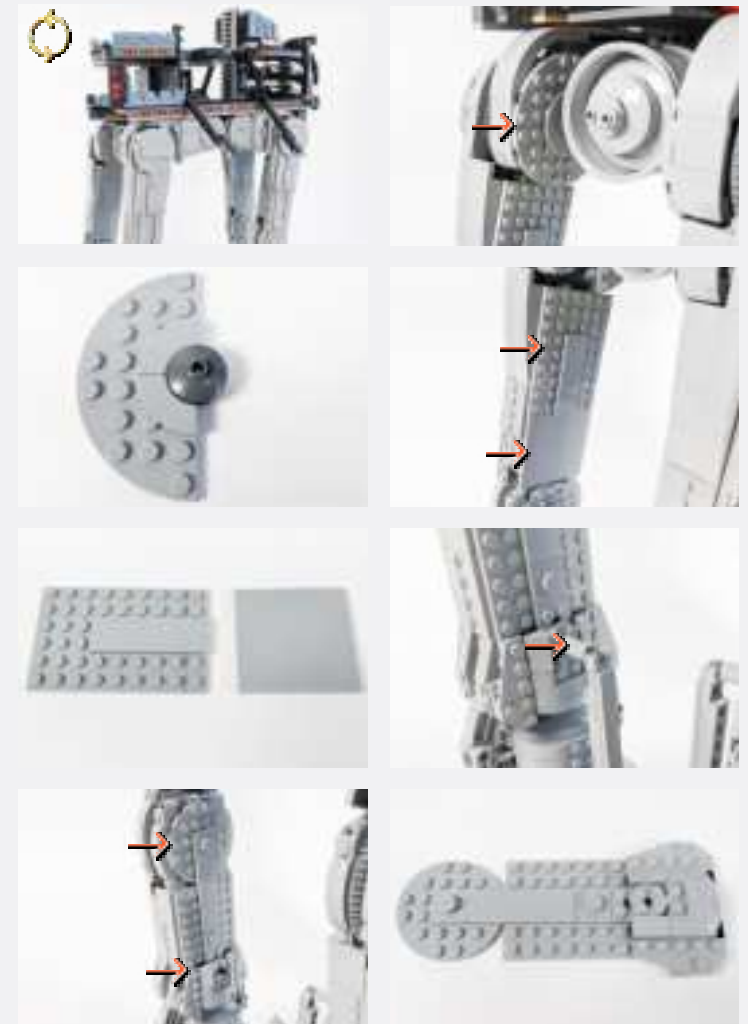


### Legend

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



3



## Legend

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



4

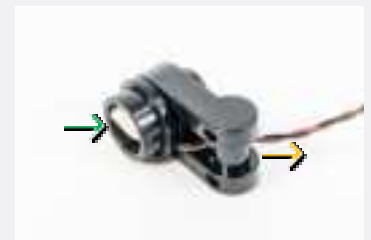


2 x Plate 2x4 - Black



Cool White 30cm Large Bit Light


Black Round Plate 1x1  
w/ Open Stud

Black 1x1 Plate Modified Plate  
Rounded w/ Handle

Black Arm Skeleton, Bent w  
Clips (Horizontal Grips)


Legend

→ DISCONNECT

→ CONNECT /  
RECONNECT

↻ TURN / FLIP

→ DIRECTIONAL

↻ TWIST / BRAID

⚡ POWER ON TEST

📝 NOTE ICON

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

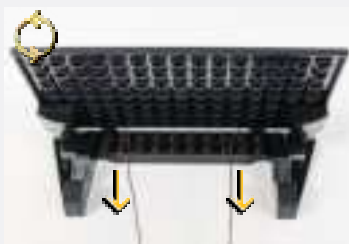
Black 1x1 Plate Modified Plate  
Rounded w/ Handle



x2



6-Port Expansion Board



USB Power Cable



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



2x Adhesive Squares

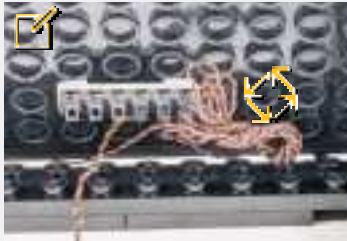


5

## Legend

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

✍ Please twist the two Large Bit Light cables.



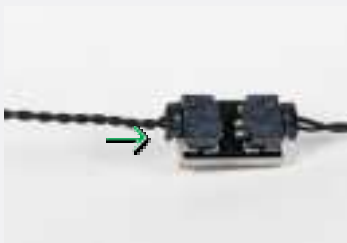
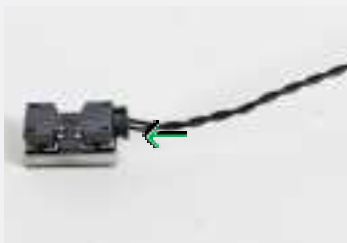
50cm Connecting Cable



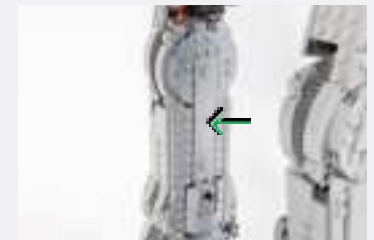
2-Port Expansion Board



50cm Connecting Cable

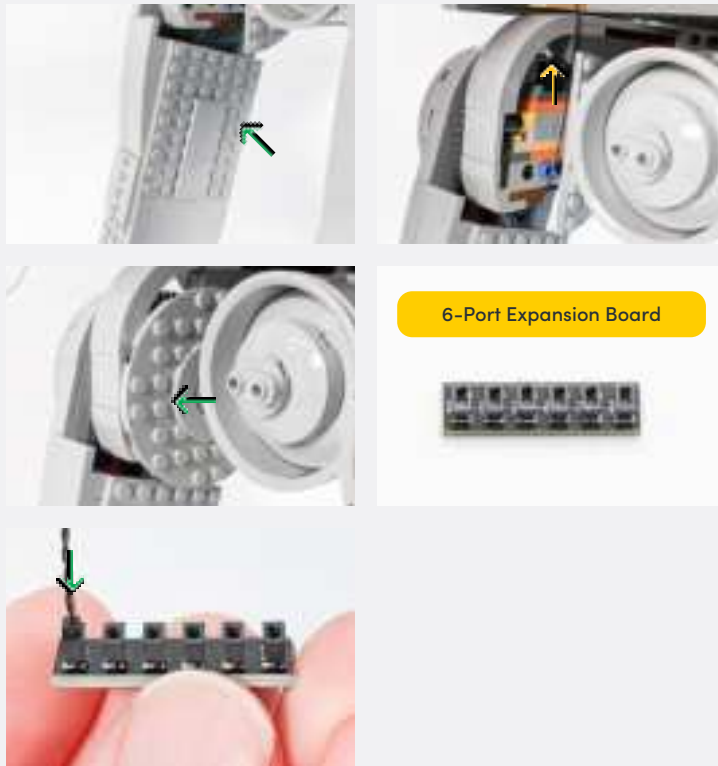


✍ When pulling the 50cm Connecting Cable up the leg, ensure the 2-Port Expansion Board remains located at the ankle.



## Legend

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



6



## Legend

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





# Legend

→ DISCONNECT

→ CONNECT / RECONNECT

↻ TURN / FLIP

→ DIRECTIONAL

↻ TWIST / BRAID

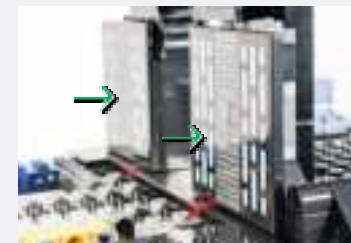
✱ POWER ON TEST

📝 NOTE ICON

7

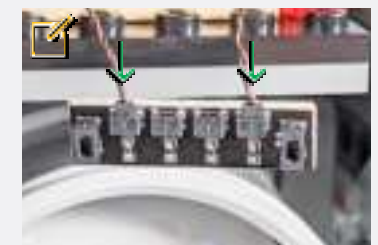


Red 15cm Micro Bit Light



Connect the two Micro Bit Lights from this step and step 6 to the Micro 4-Port Expansion Board.

Micro 4-Port Expansion Board



## Legend

→ DISCONNECT

→ CONNECT / RECONNECT

↻ TURN / FLIP

→ DIRECTIONAL

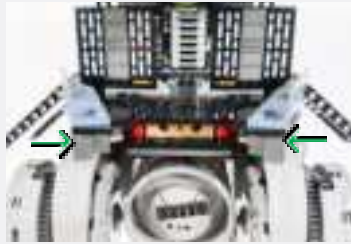
↻ TWIST / BRAID

☀ POWER ON TEST

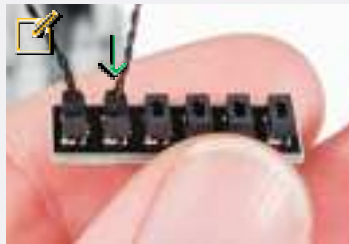
📌 NOTE ICON

Connect one end of the 15cm Connecting Cable to the Micro 4-Port Expansion Board from step 7 and the other end to the 6-Port Expansion Board from step 5.

8



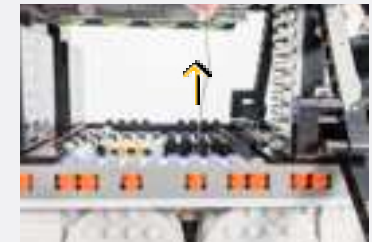
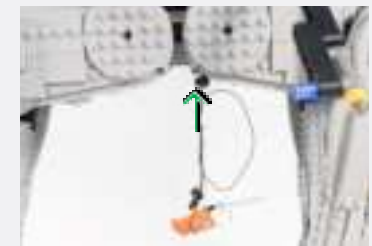
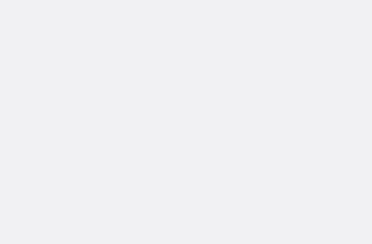
15cm Connecting Cable



LMB Blue Lightsaber



9

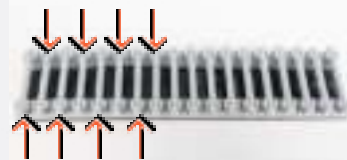


## Legend

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



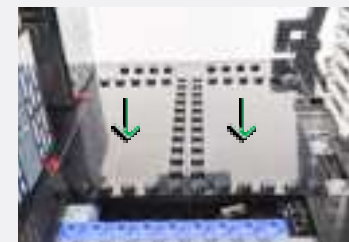
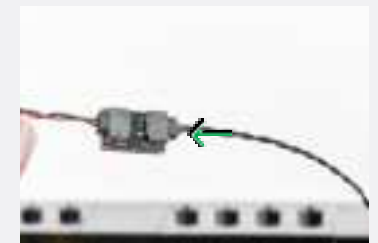
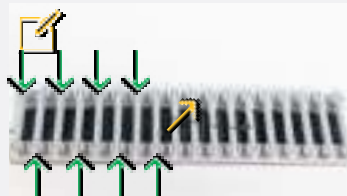
2-Port Expansion Board



15cm Connecting Cable



Place the Light Grey Bars on top of the 15cm Connecting Cable, allowing at least 5cm from the middle of the ladder.

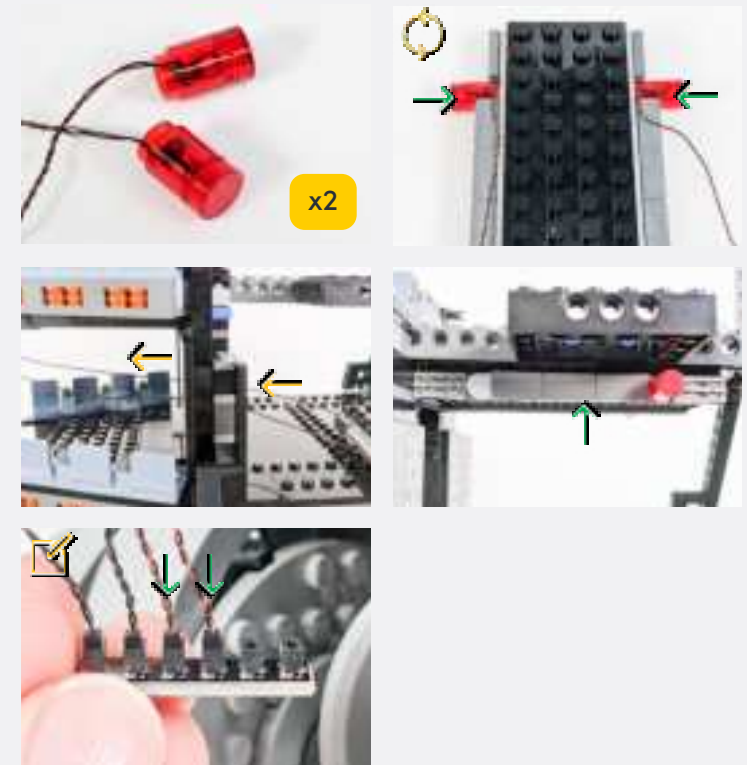


## Legend

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



Connect the two Rotating Bit Lights to the 6-Port Expansion Board from step 5.



## Legend

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

10

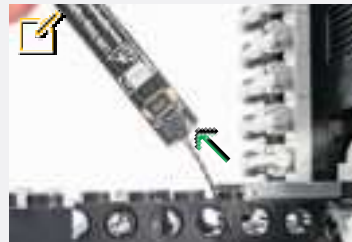
Red Strip Light



5cm Connecting Cable



✂ Connect the 15cm Connecting Cable from step 9 to the other end of the Red Strip Light.

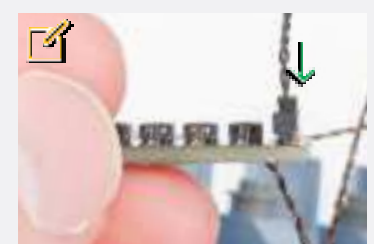


5cm Connecting Cable



✂ Connect the 5cm Connecting Cable from earlier in this step to the other end of the White Strip Light.

White Strip Light



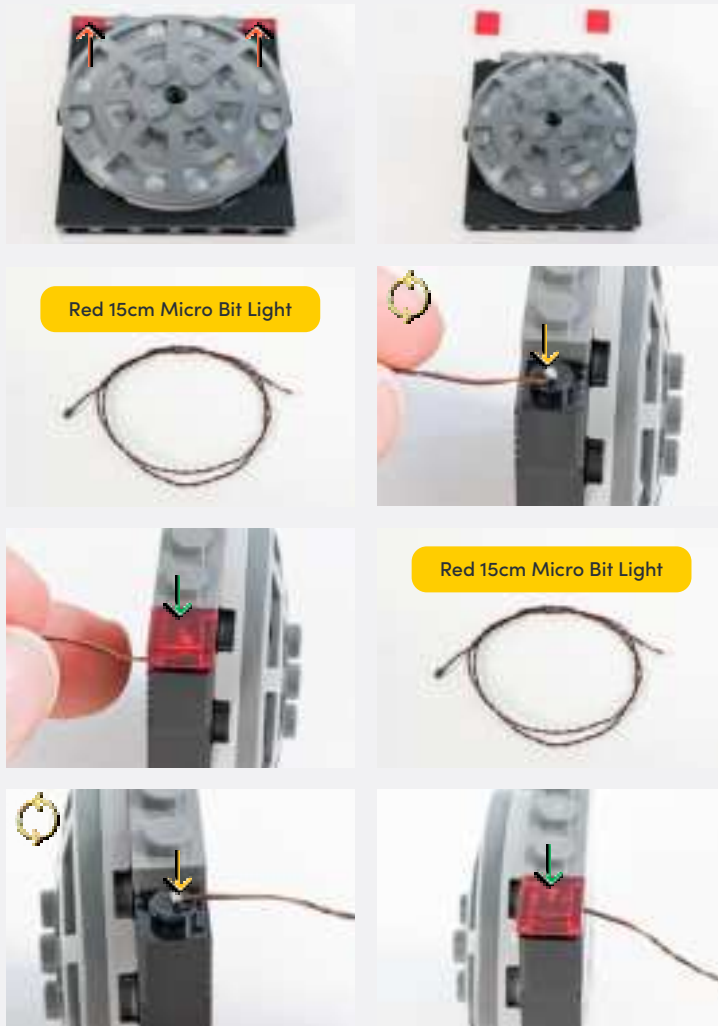
✂ Connect the final 5cm Connecting Cable to the other end of the Micro 4-Port Expansion Board from step 7.

## Legend

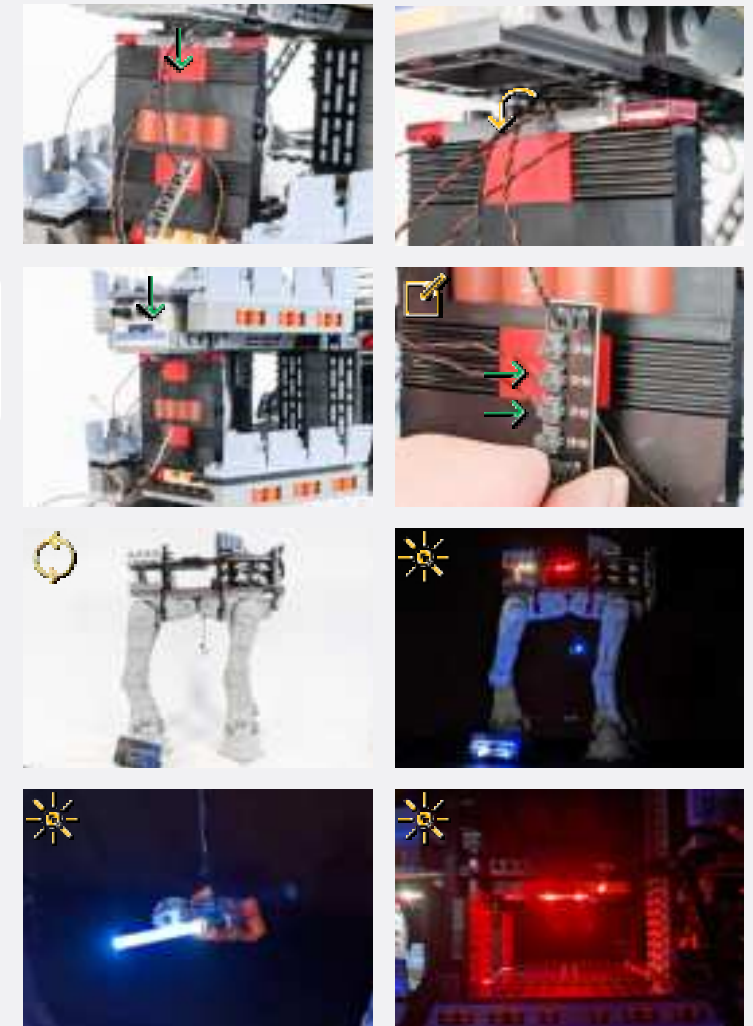
→ DISCONNECT → CONNECT / RECONNECT ↺ TURN / FLIP → DIRECTIONAL ↻ TWIST / BRAID ✨ POWER ON TEST 📝 NOTE ICON

11

🔧 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.



🔧 Connect the 2 Micro Bit Lights to the Micro 4-Port Expansion Board from step 7.

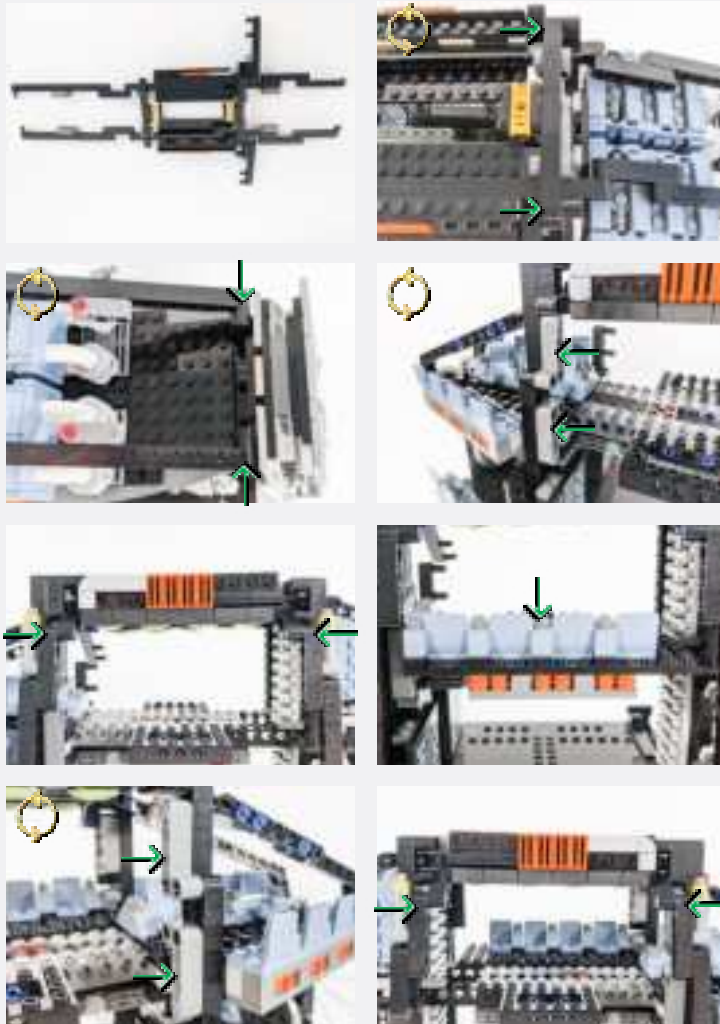


## Legend

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



12



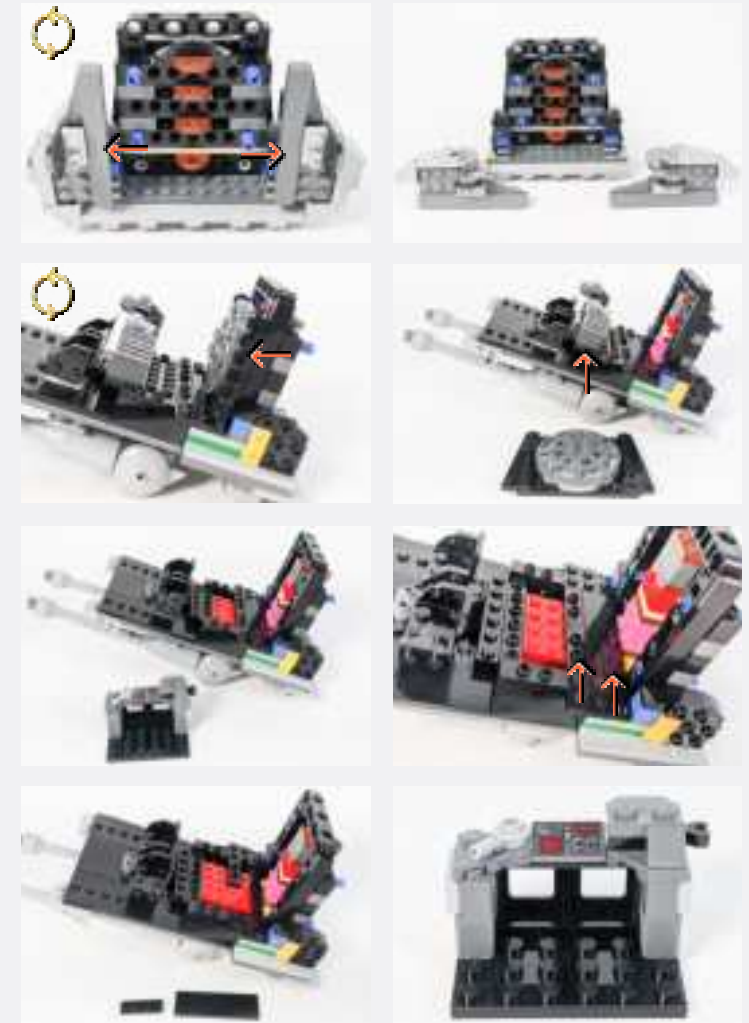
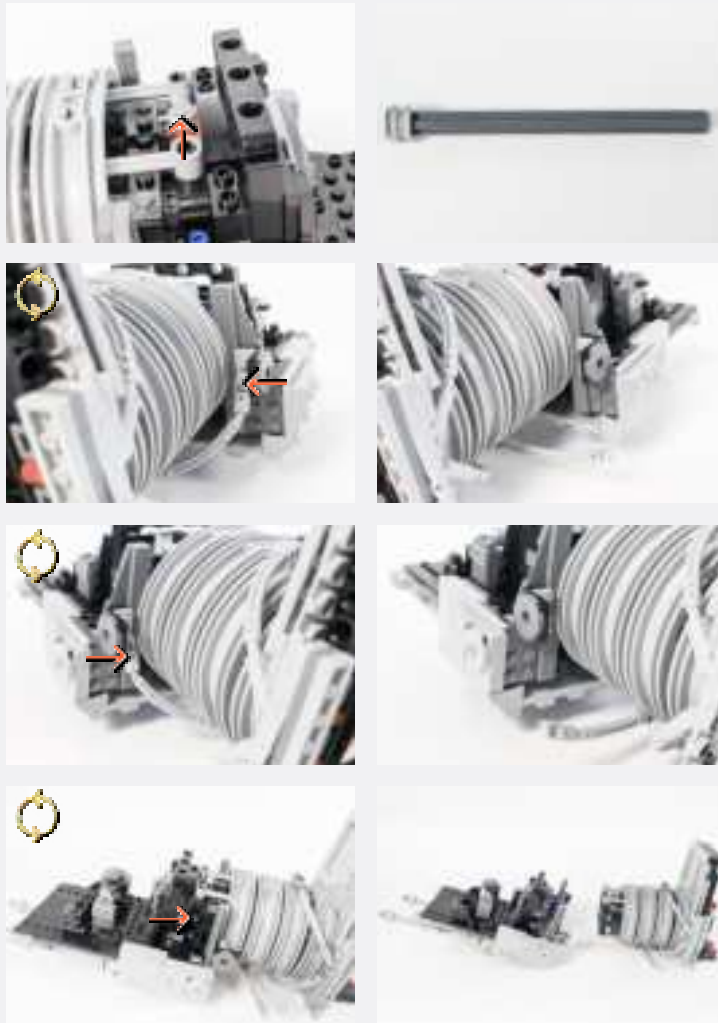
13



Legend

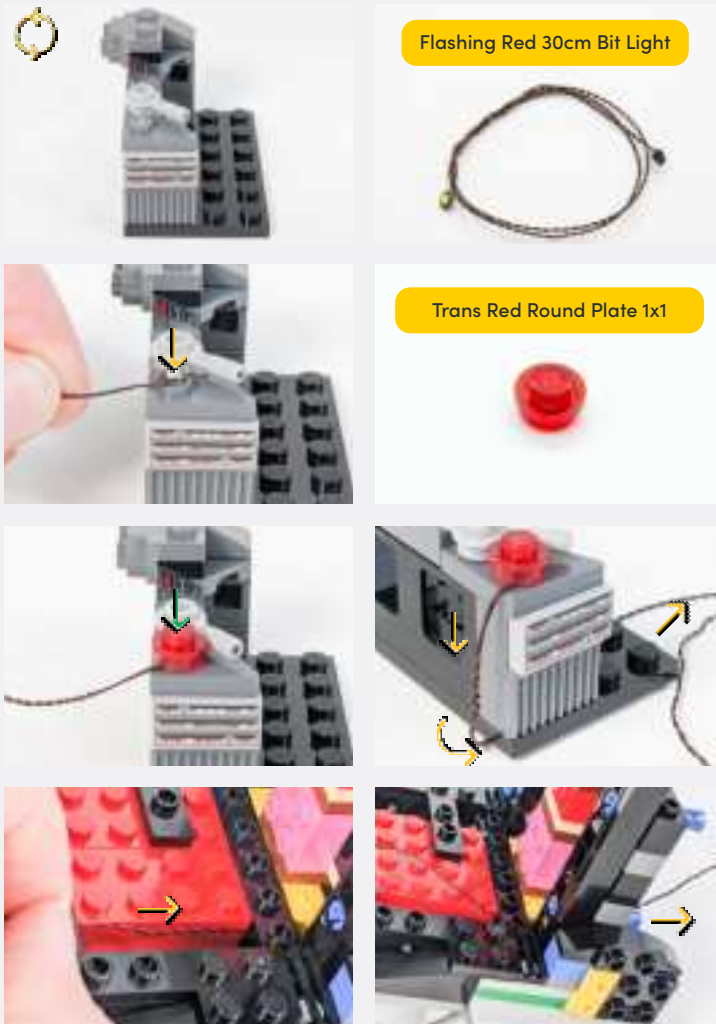
 DISCONNECT
  CONNECT / RECONNECT
  TURN / FLIP
  DIRECTIONAL
  TWIST / BRAID
  POWER ON TEST
  NOTE ICON





### Legend

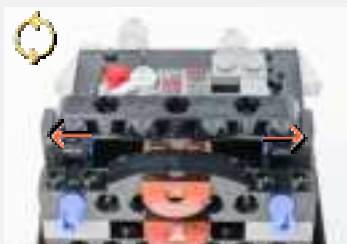
 DISCONNECT
  CONNECT / RECONNECT
  TURN / FLIP
  DIRECTIONAL
  TWIST / BRAID
  POWER ON TEST
  NOTE ICON



### Legend

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

14



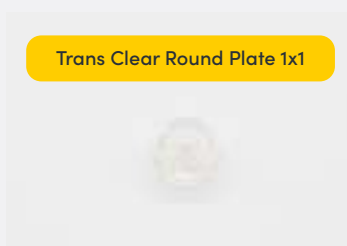
Bracket 1x1 - Light Grey



x2



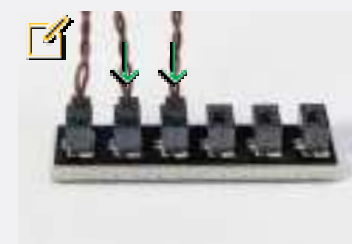
Cool White 30cm Bit Light



Trans Clear Round Plate 1x1



Connect the two Bit Lights to the 6-Port Expansion Board from step 12.



## Legend

→ DISCONNECT

→ CONNECT / RECONNECT

↻ TURN / FLIP

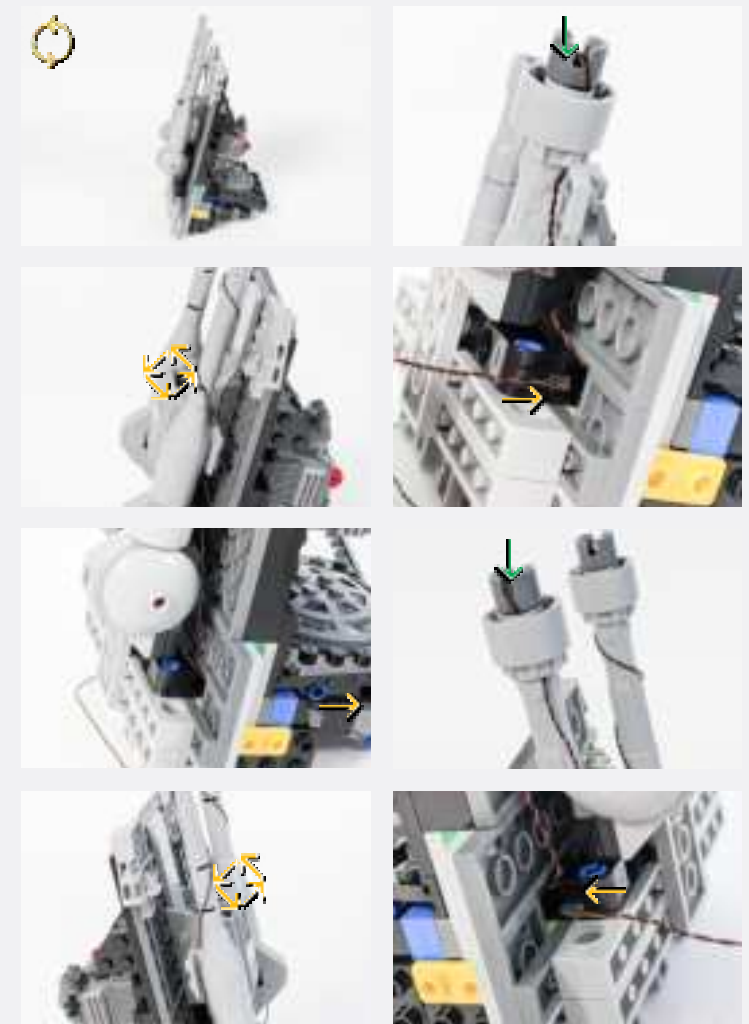
→ DIRECTIONAL

↻ TWIST / BRAID

⚡ POWER ON TEST

📝 NOTE ICON

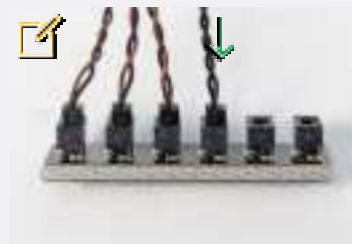
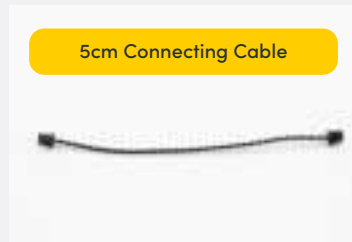
15



Legend

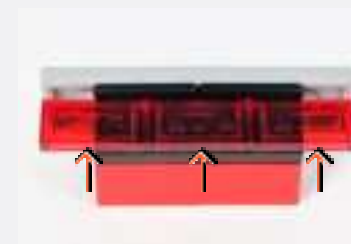
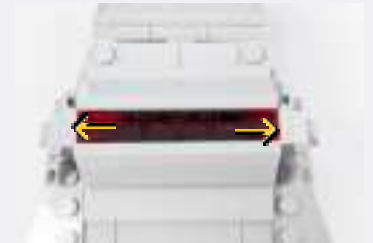
DISCONNECT 
 CONNECT / RECONNECT 
 TURN / FLIP 
 DIRECTIONAL 
 TWIST / BRAID 
 POWER ON TEST 
 NOTE ICON





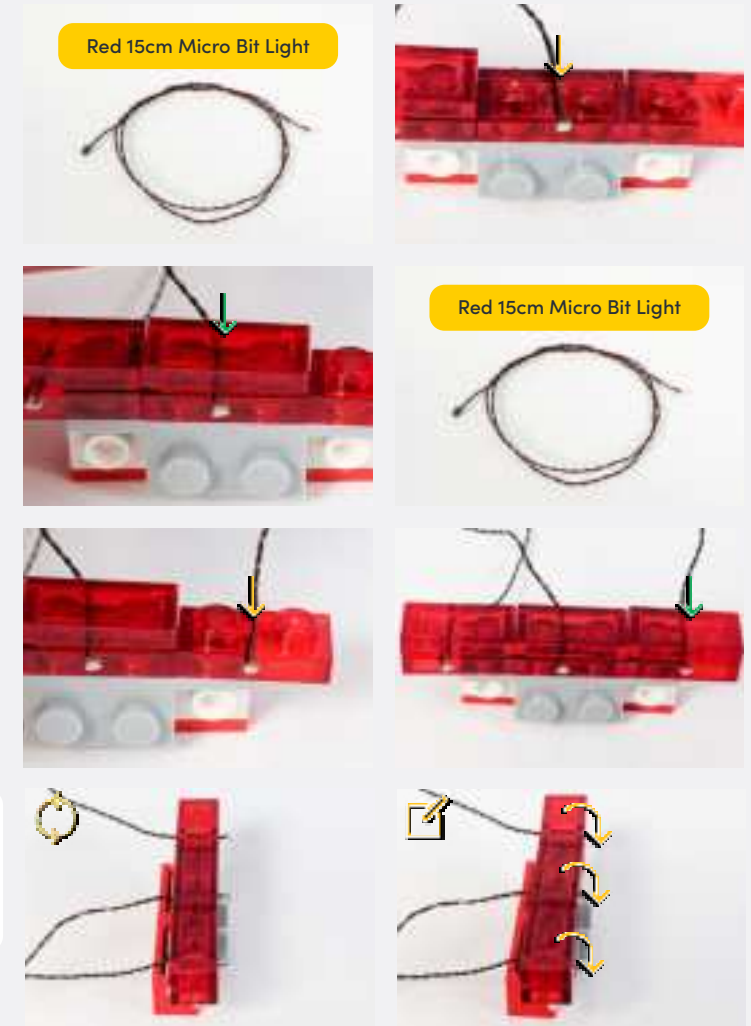
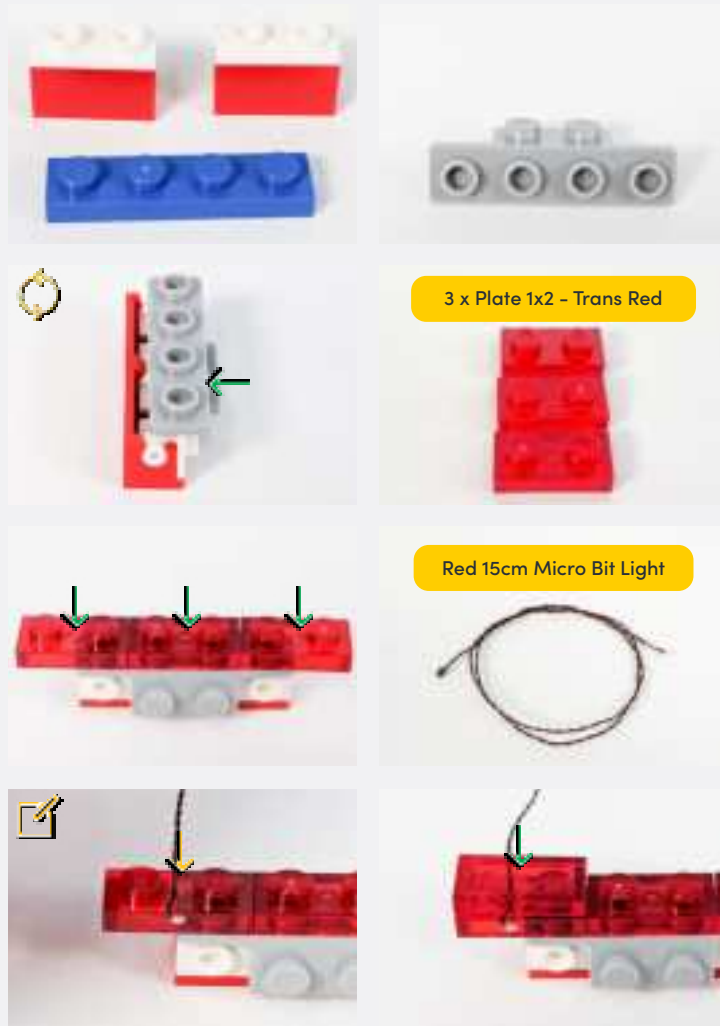
Connect the other end of the 5cm Connecting Cable to the 6-Port Expansion Board from step 12.


## 16



### Legend

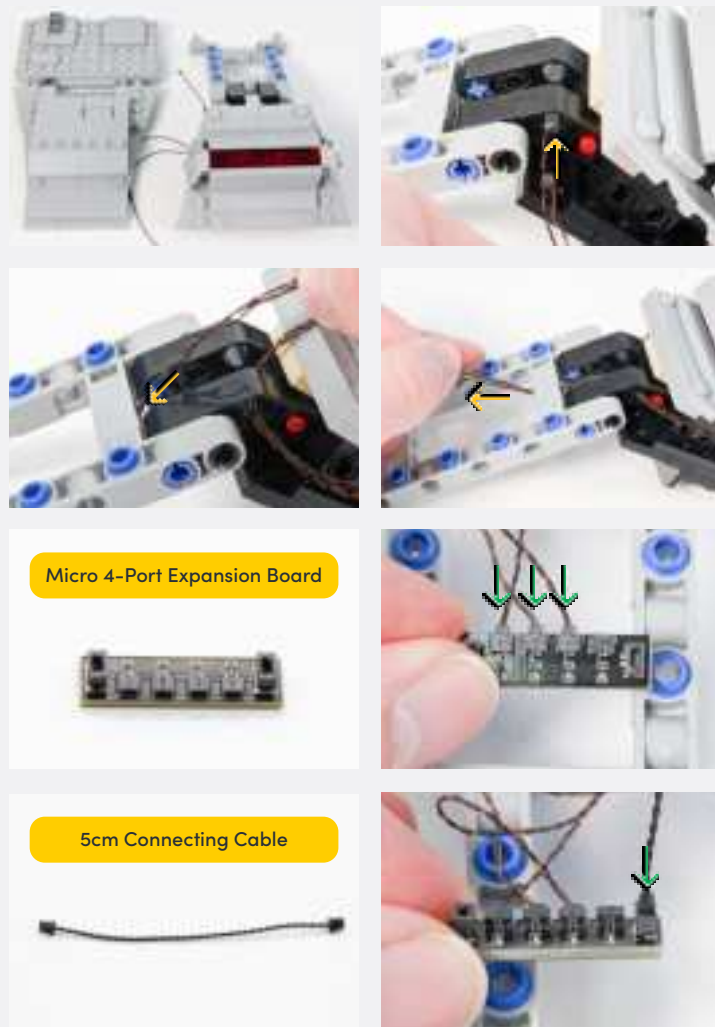
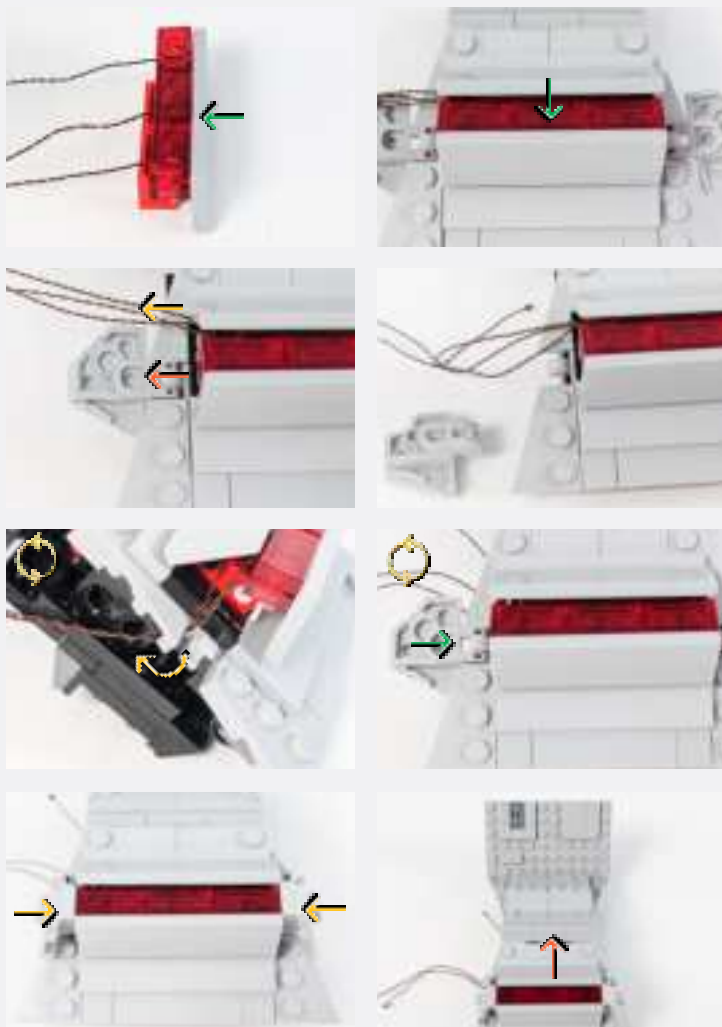
 DISCONNECT
  CONNECT / RECONNECT
  TURN / FLIP
  DIRECTIONAL
  TWIST / BRAID
  POWER ON TEST
  NOTE ICON



 Bend the 3 Micro Bit Lights down, ensuring the LED is facing the Trans-Red LEGO elements.

## Legend

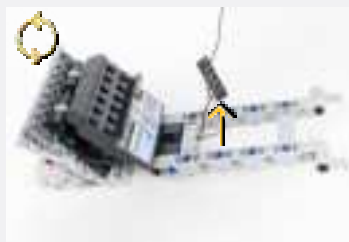
 DISCONNECT  CONNECT / RECONNECT  TURN / FLIP  DIRECTIONAL  TWIST / BRAID  POWER ON TEST  NOTE ICON



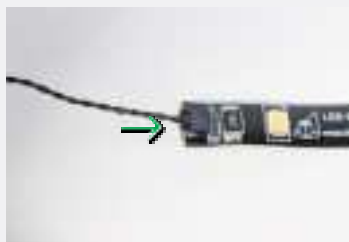
## Legend

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

17



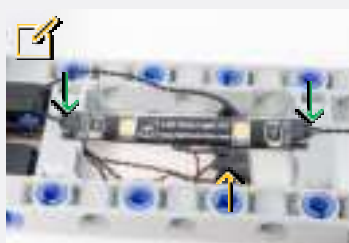
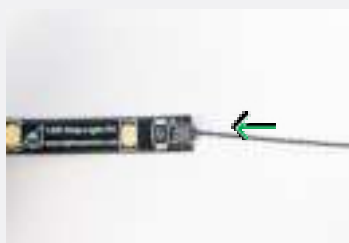
White Strip Light



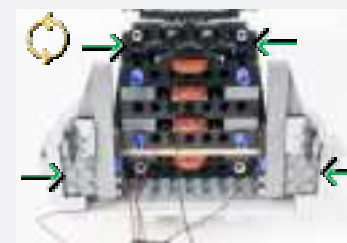
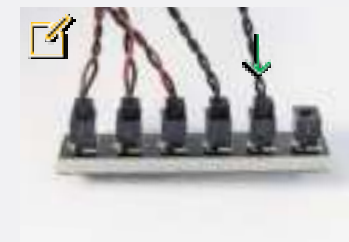
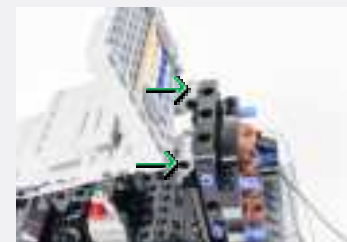
15cm Connecting Cable



When adhering the Strip Light to the LEGO, ensure the Micro 4-Port Expansion Board is hidden underneath the Strip Light.



Connect the other end of the 15cm Connecting Cable to the 6-Port Expansion Board from step 12.



## Legend

→ DISCONNECT

→ CONNECT / RECONNECT

↻ TURN / FLIP

→ DIRECTIONAL

↻ TWIST / BRAID

✳ POWER ON TEST

📝 NOTE ICON

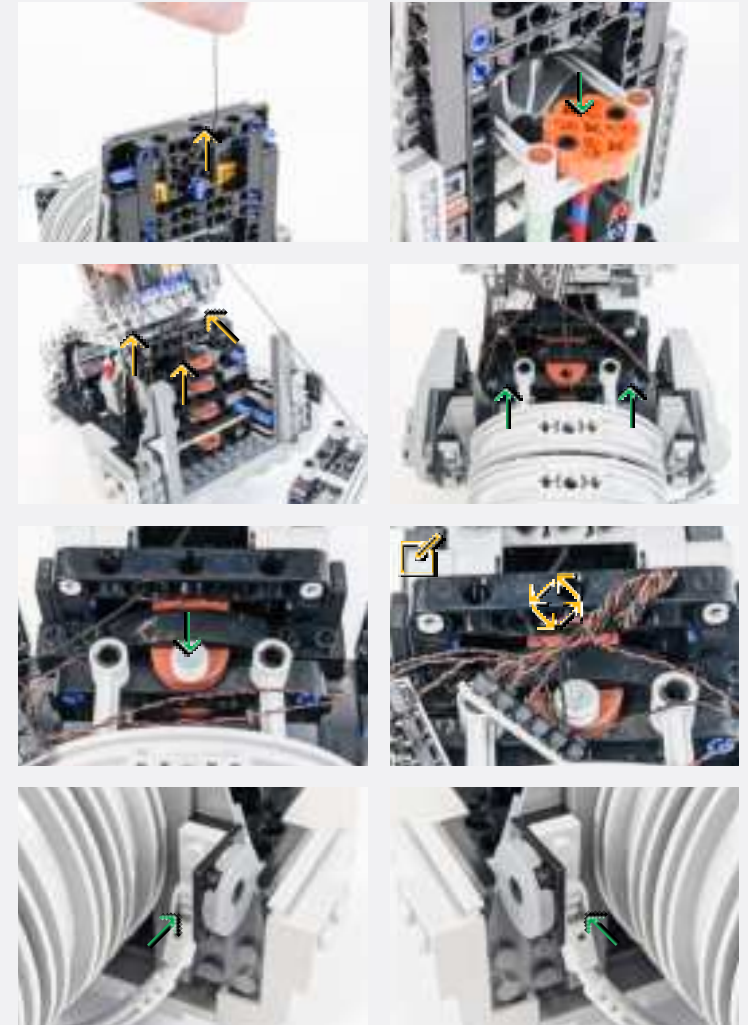


18

30cm Connecting Cable



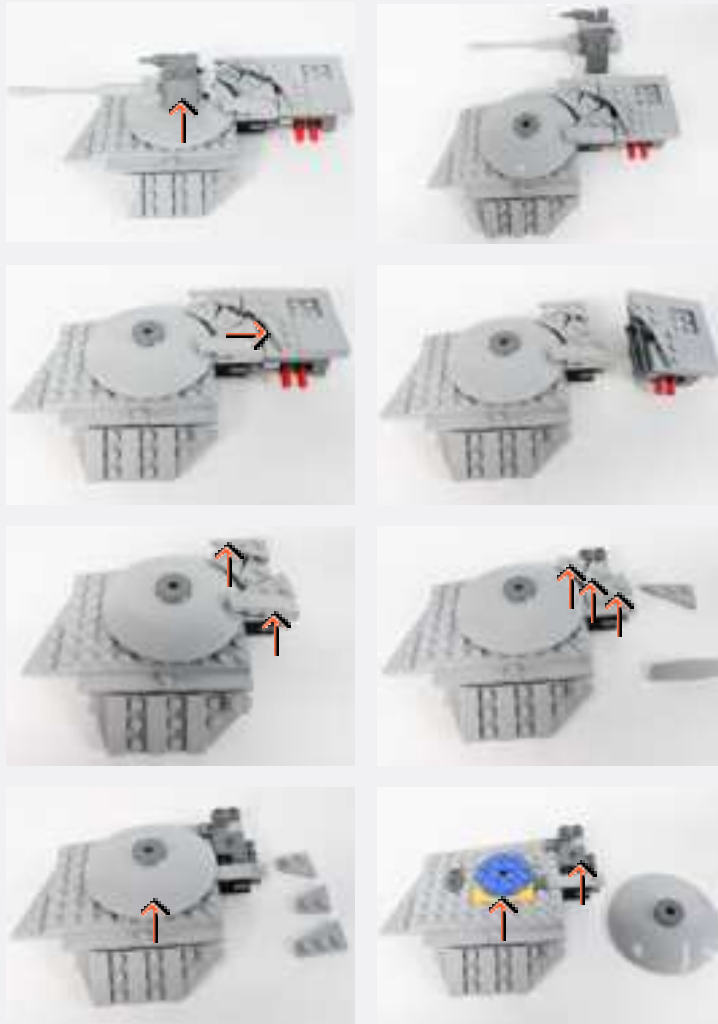
Ensure to exclude the 30cm Connecting Cable when twisting the other cables together.



Legend

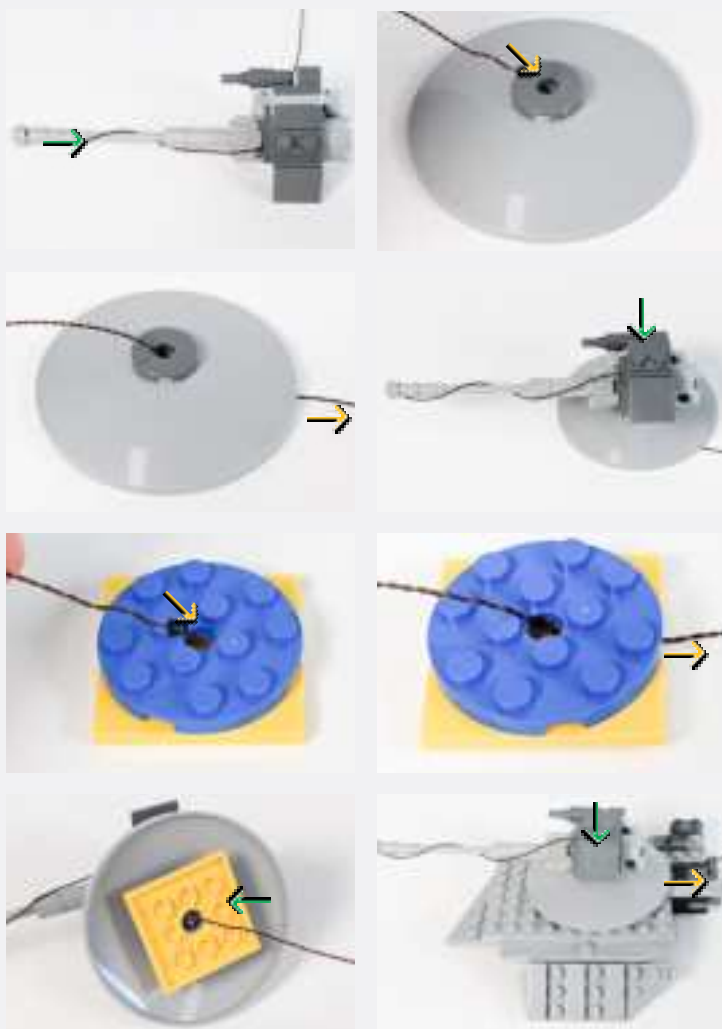
→ DISCONNECT → CONNECT / RECONNECT ↺ TURN / FLIP → DIRECTIONAL ↻ TWIST / BRAID ✨ POWER ON TEST 📝 NOTE ICON


19

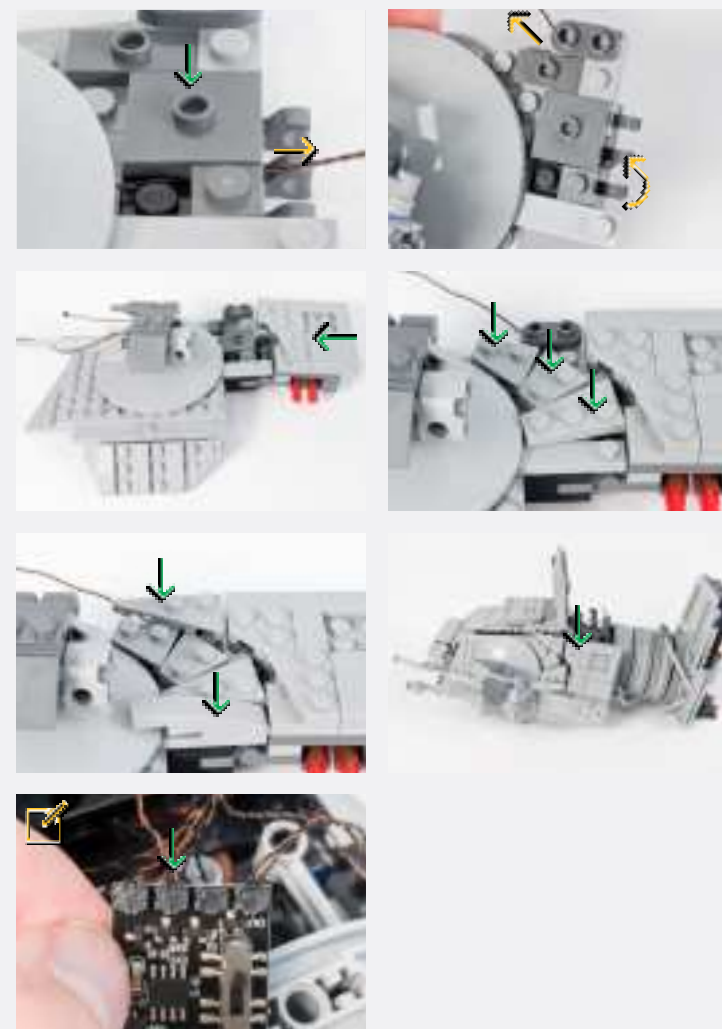


### Legend

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



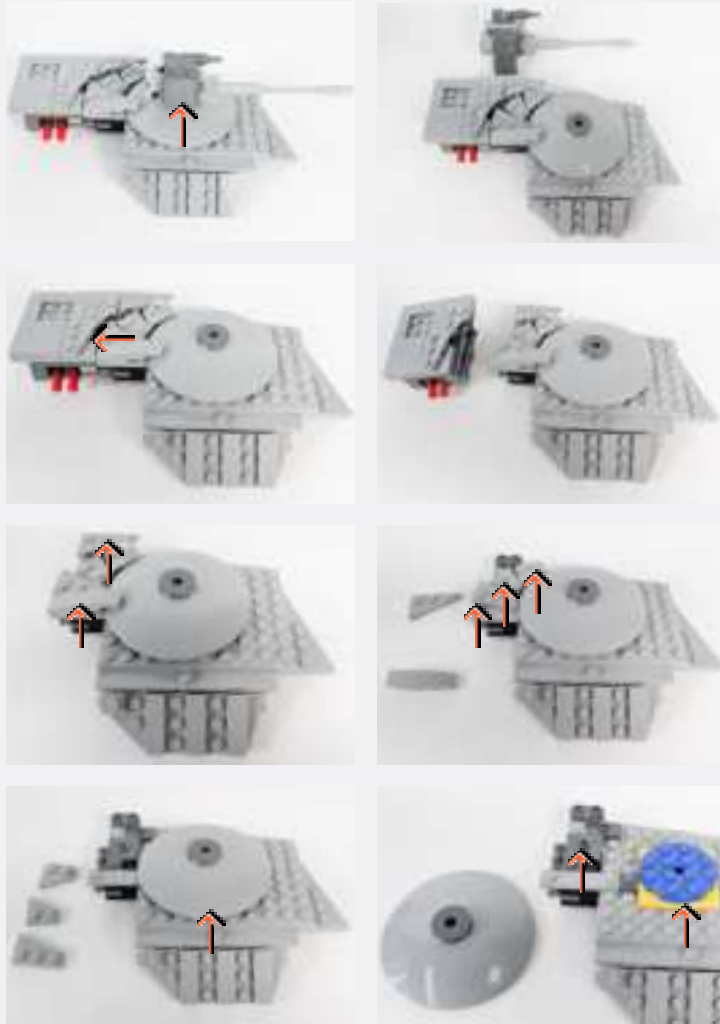
 Connect the Bit Light to the Gun Effects Board from step 14.



## Legend

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

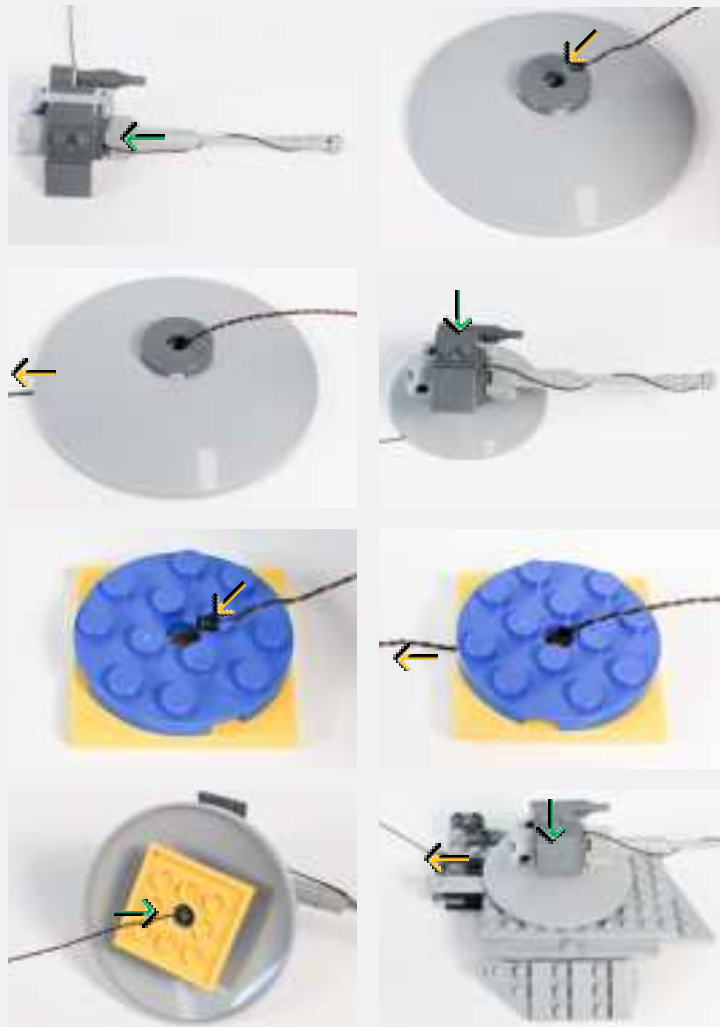
20




### Legend

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





 Connect the Bit Light to the Gun Effects Board from step 14.



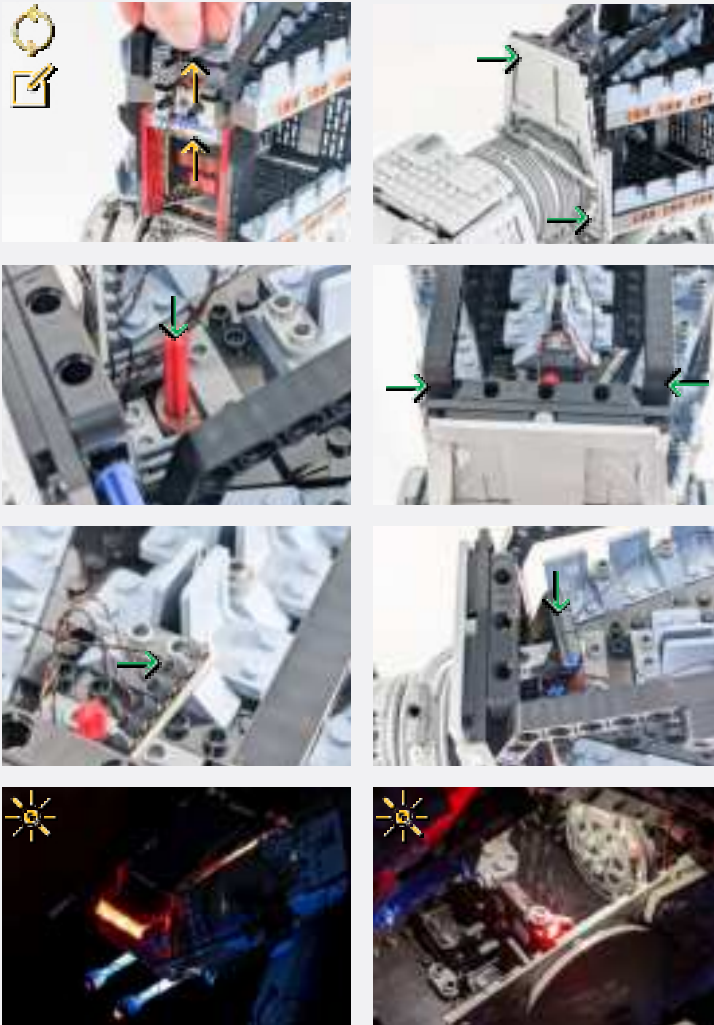
## Legend

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

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

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🔧 Pull up the cables and 6-Port Expansion Board from step 5 to the second level of the AT-AT, while leaving the Micro 4-Port Expansion Board underneath.

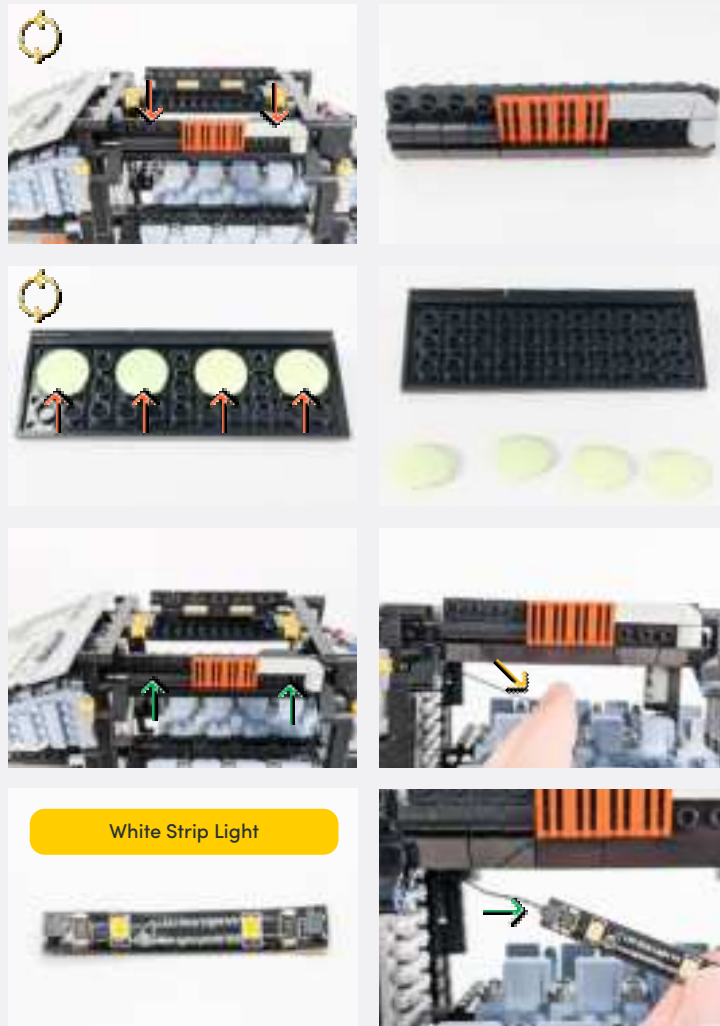


22



Legend

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



**Legend**

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





## Legend

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

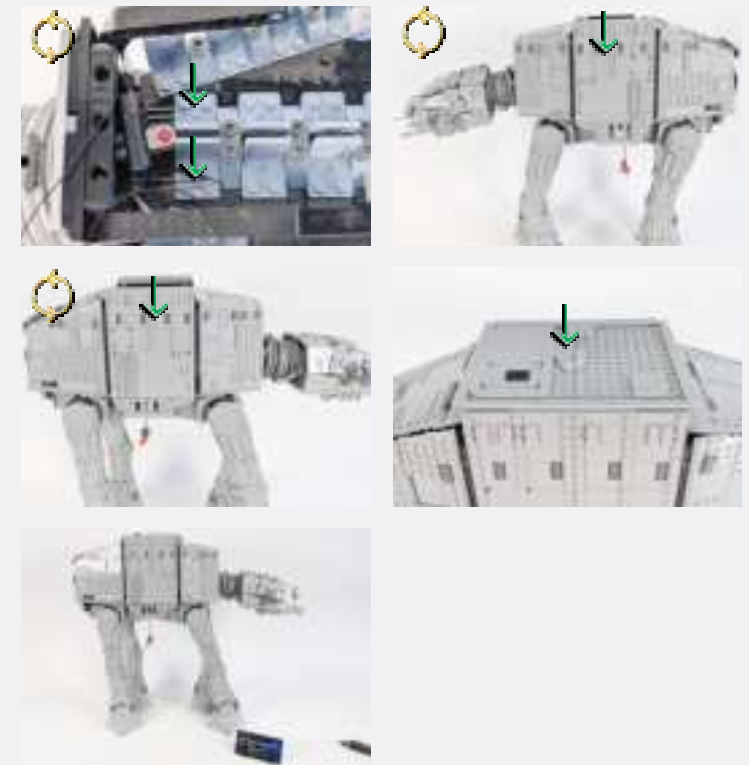


📌 If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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

📌 Connect the other end of the 5cm Connecting Cable to the last port in the 6-Port Expansion Board from step 2.



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## Legend

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

## FINAL PRODUCT

This finally completes installation of the Light My Bricks UCS AT-AT 75313 Light Kit.





## TROUBLESHOOTING

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

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

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

## Troubleshooting

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

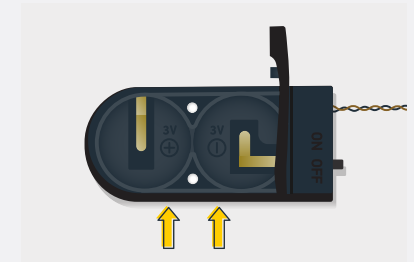
**If the batteries have no power, replace the batteries.**

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

### Check For CR2032 Batteries Using The Flat Battery Pack

Inside the battery pack is a symbol indicating which side the (round) CR2032 battery should be inserted. Check that the “+” side of the battery pack has the battery with the “+” symbol facing downwards.

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

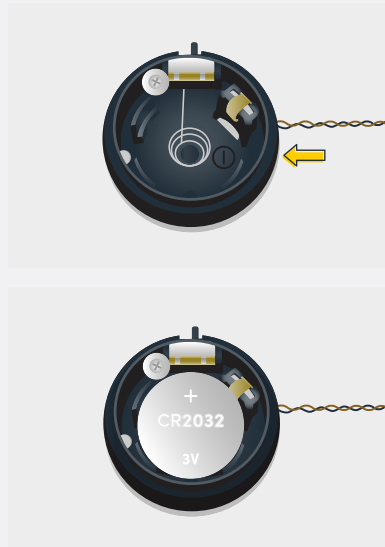




## Troubleshooting

### Check For Cr2032 Batteries Using The Round Battery Pack

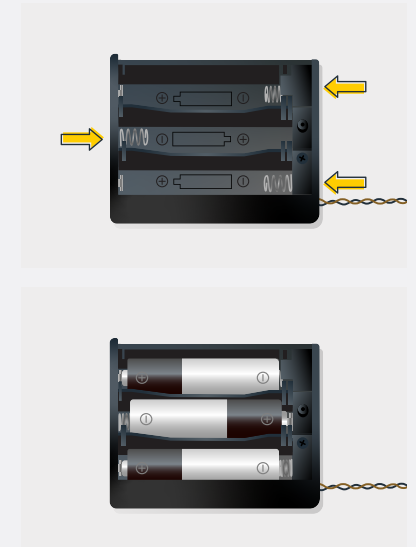
Inside the battery pack is a symbol indicating which side the (round) CR2032 battery should be inserted. In this case, for the stacked battery pack, ensure that BOTH batteries have the “+” symbol facing upwards.



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

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

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



# Troubleshooting

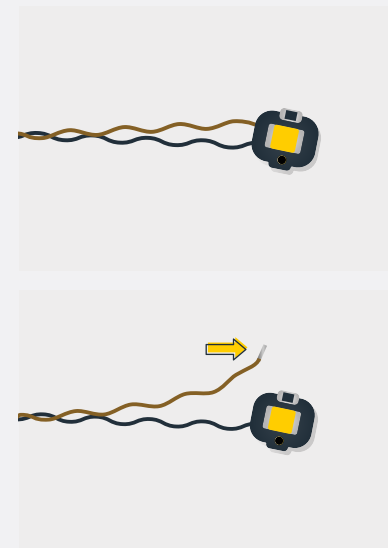
## Check Your Wires

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

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

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

When connecting lights to your LEGO set, check that there are no pinched wires underneath or in between bricks and plates. When the wires are pinched and the exposed wires are touching each other, this can cause a crosswire and the lights to not function correctly.



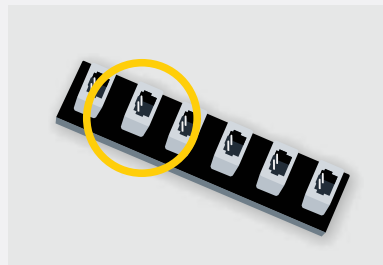
# Troubleshooting

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

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

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

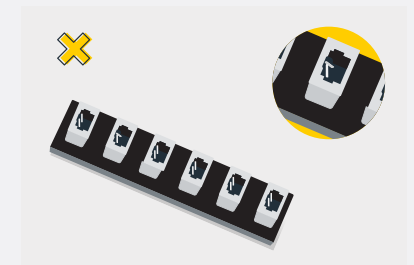
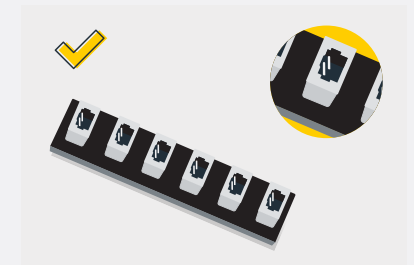
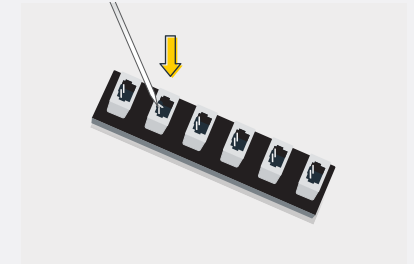
Not only will a light connected to the damaged port not work, but if the pins inside the port are bent to a point they are touching each other, this can result in all other lights in the system to stop working. This is a short circuit.



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

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

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





## CONTACT US

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

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

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

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





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