



# LEGO OPTIMUS PRIME #10302 LIGHT KIT INSTALL GUIDE

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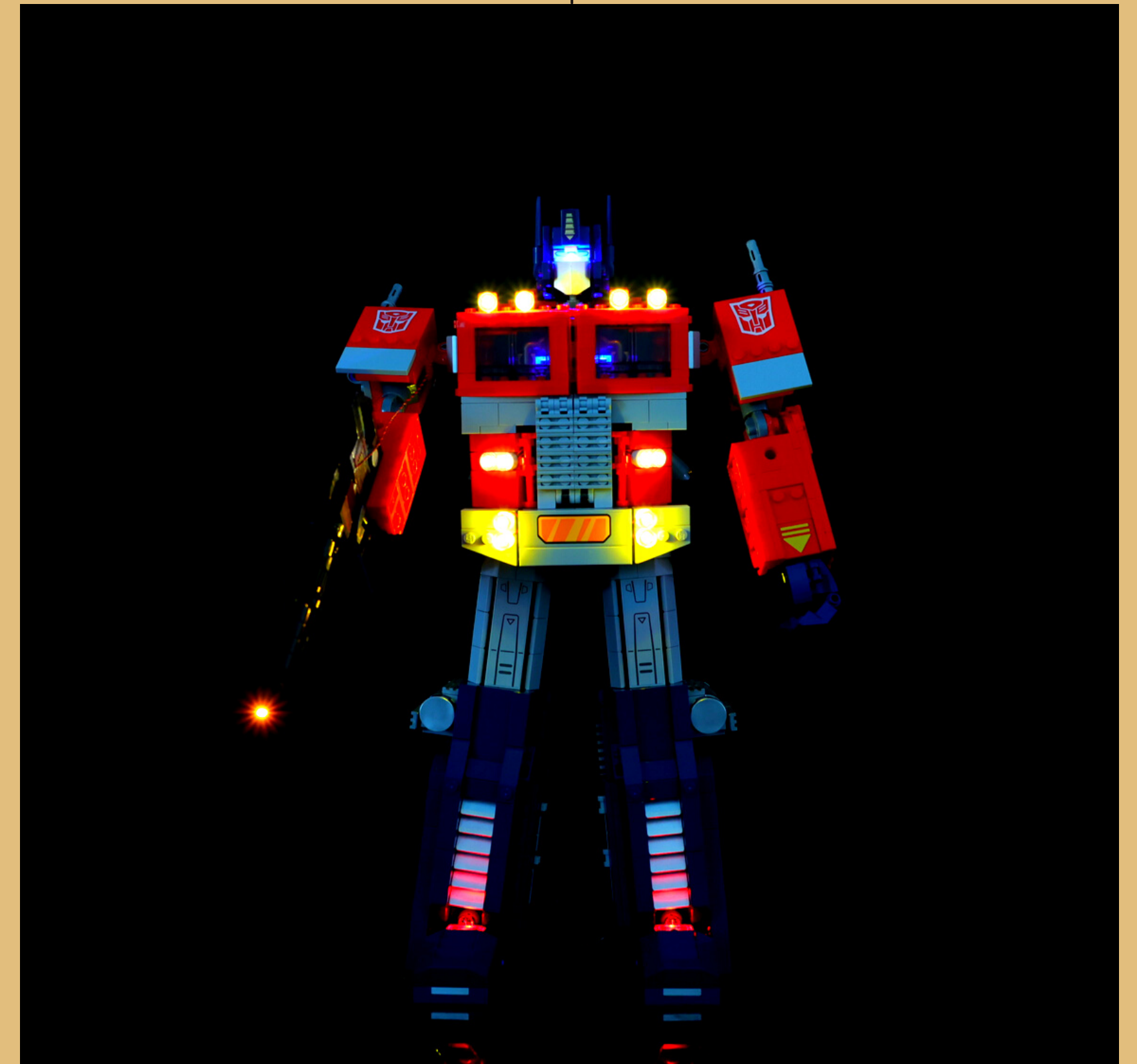
Hi There!

We're here to help you get started on the LEGO®OPTIMUS PRIME #10302 LIGHT KIT INSTALLATION GUIDE.

This PDF details the instructions for the LED light kit only. If you are wishing to purchase this product, please go to our website at: [www.regodesign.net](http://www.regodesign.net).

If you run into any issues, please refer to the troubleshooting section towards the end of this guide or contact us at email: [support@regodesign.us](mailto:support@regodesign.us).

Enjoy!



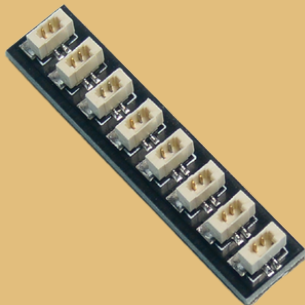




# PACKAGE CONTENTS:



12 x White 30cm Dot Light  
2 x Warm White 15cm Bit Light  
1 x Yellow 30cm Headlight  
2 x RED 30cm Headlight  
3 xBLUE 30cm Headlight



1 x 4-Port Expansion Board  
1 x 8-Port Expansion Board  
1 x 12-Port Expansion Board



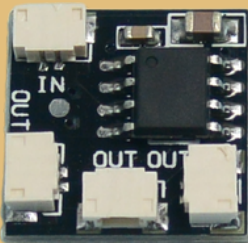
2 x 15 cm Connecting Cable



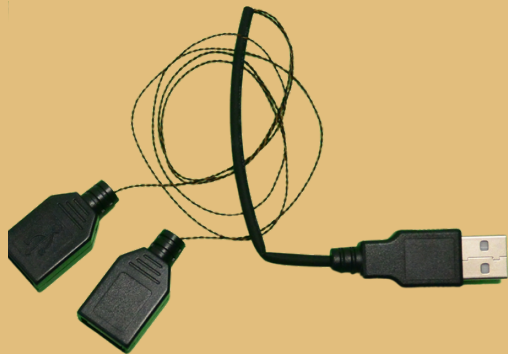
2 x USB Power Cable



1 x Battery Case



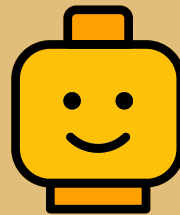
1 x Flame torch module



1 Drag 2 USB extension cable



1 x Viscous Accessories



# LEGO PIECES:

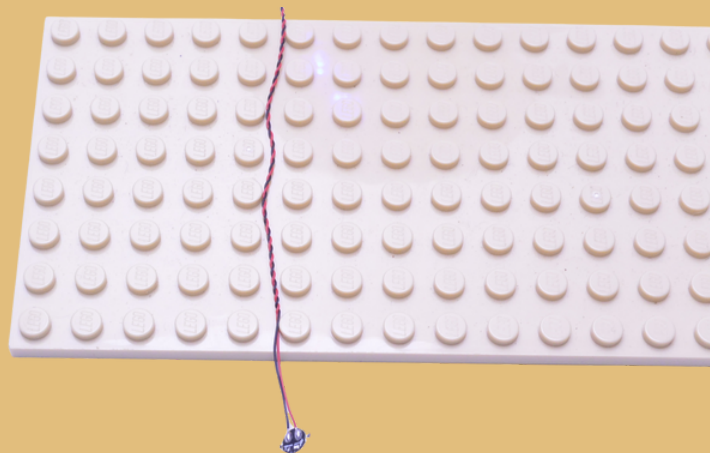
4 x Yellow 1 x 1 Round Dot

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# Before You Begin

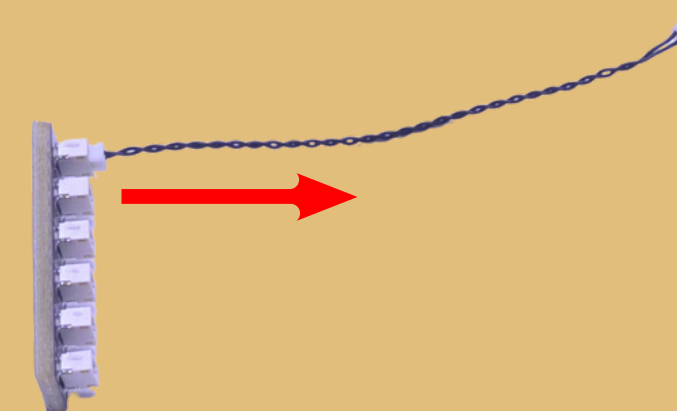
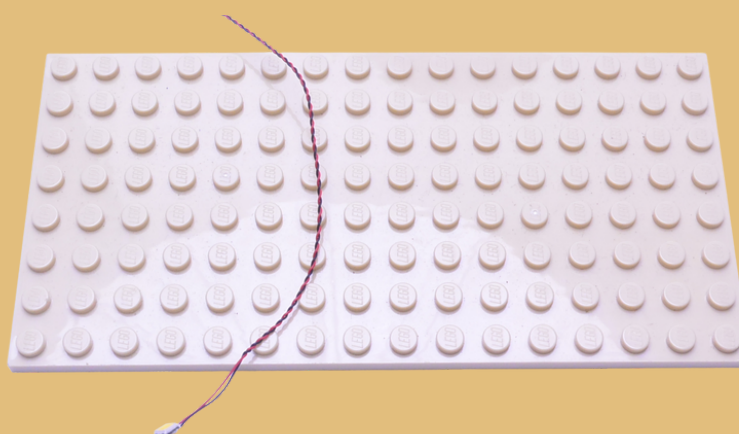


## Laying cables in between and underneath bricks

Cables can fit in between and underneath LEGO® bricks, tiles, and plates providing they are laid correctly between the LEGO® studs.

Please be careful when join LEGO® together around cables; instead ensure they are laying comfortably in between each stud.

**CAUTION:** You can't use force on LEGO® to connect over a cable or it will result in damaging the cable and light.



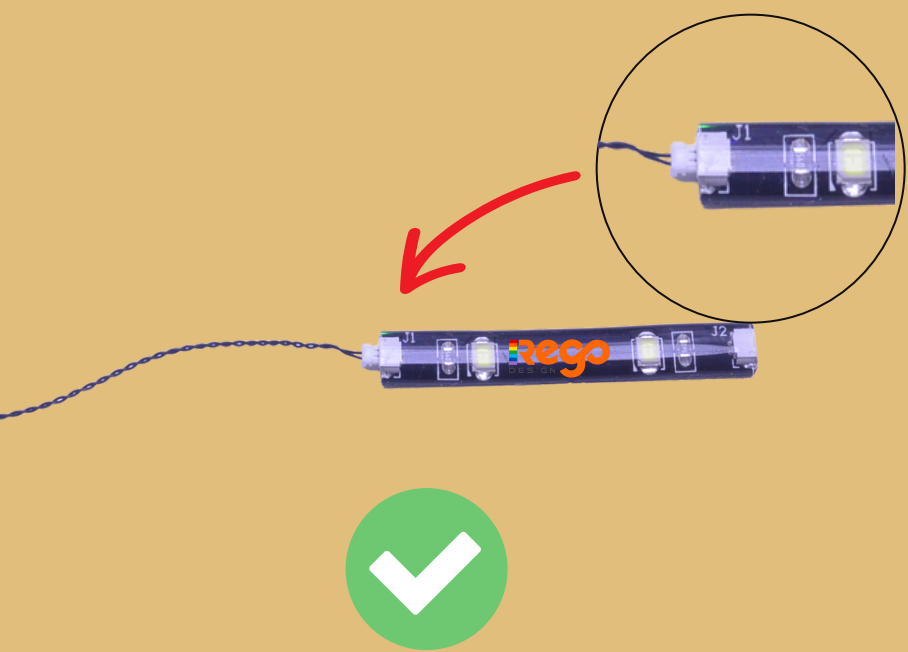
## Connecting Cable Connectors To Expansion Boards

Please paid extra care when inserting connectors to ports of Expansion Boards. When connectors can be inserted only one way and it is the right 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, which it should. PLEASE DO NOT FORCE IT.

Incorrectly inserting the connector will result in bent pins inside the port or even overheating of the expansion board when connected. So please don't do it.

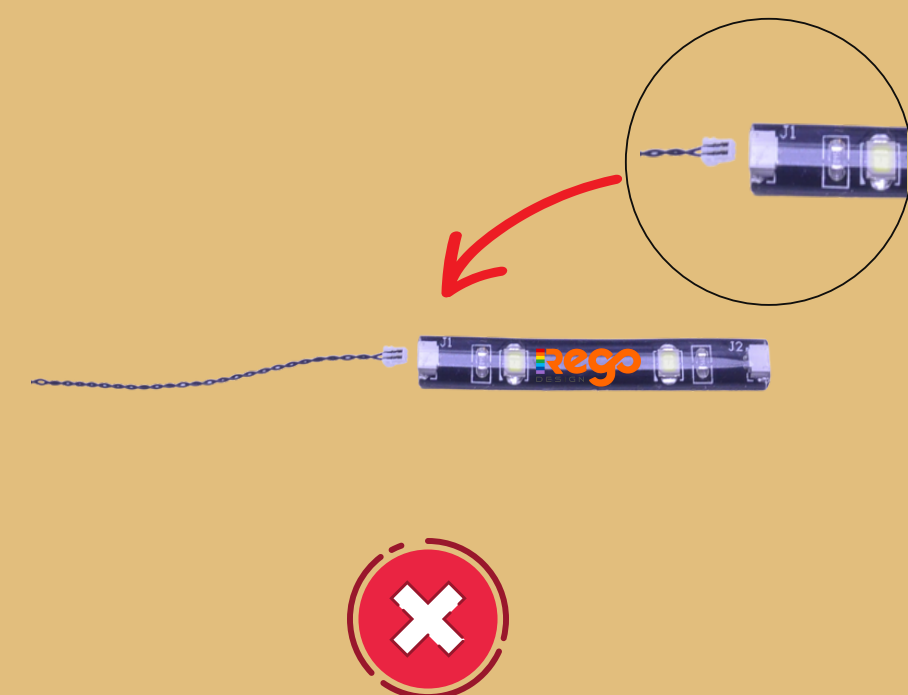


# Before You Begin



## Connecting Cable Connectors To Strip Lights

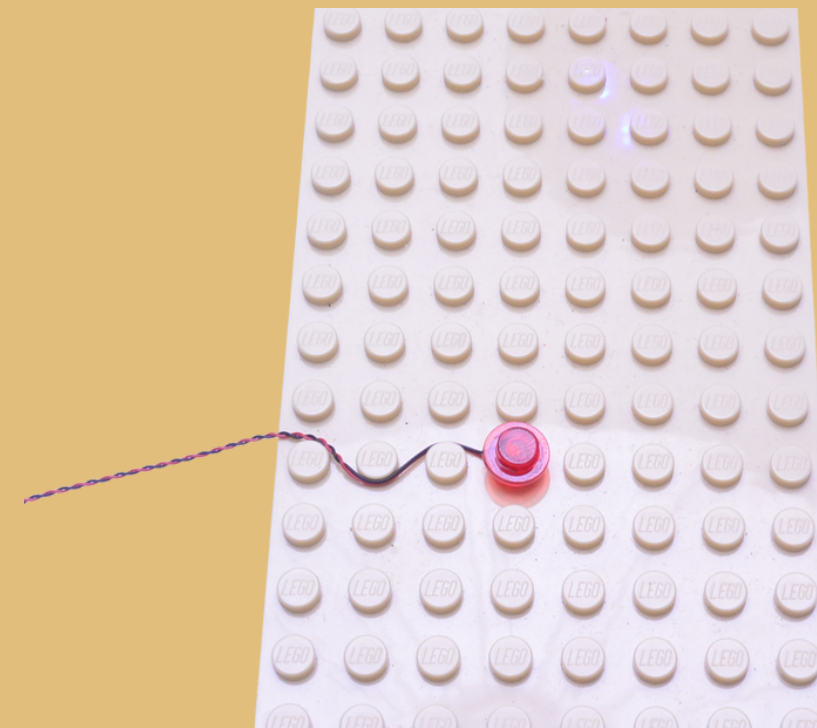
Please take extra care when inserting connectors to ports on the Strip Lights. When connectors can be inserted only one way and it is the right way. With the Strip Light is facing up, please ensure the side of the connector with the wires exposed is facing down. If a plug won't fit easily into a port connector, which it should. PLEASE DO NOT FORCE IT. YOU will damage the plug and the connector.



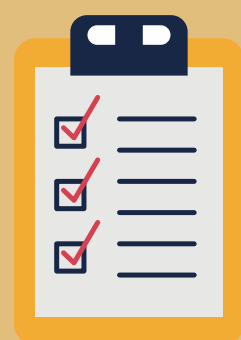
# Before You Begin

## Installing Bit Lights Under Lego® Bricks And Plates

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





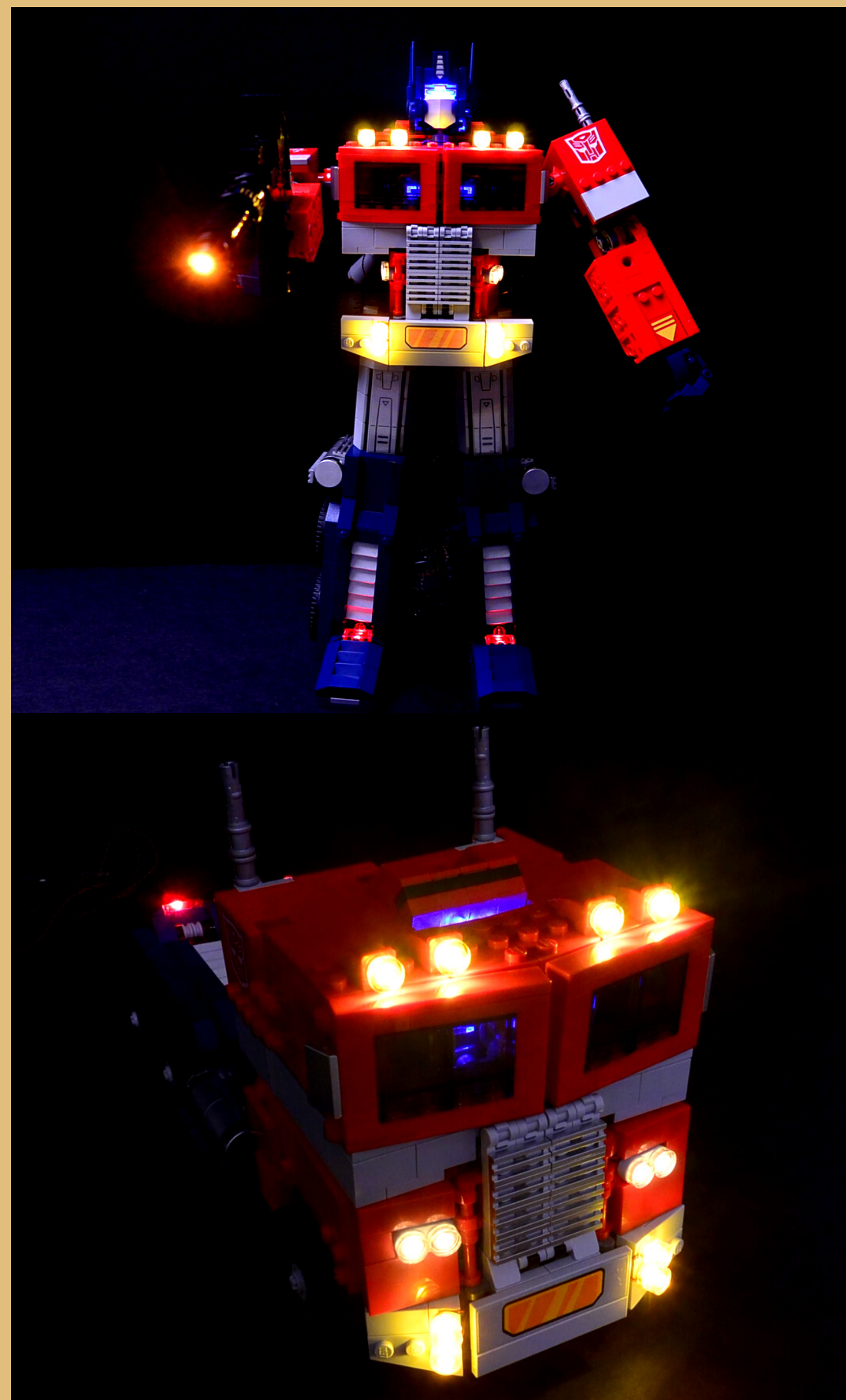


# INSTRUCTIONS

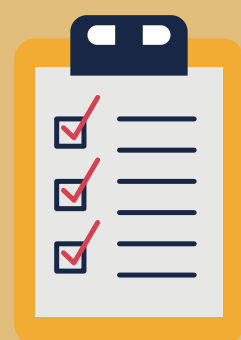
To ensure a correct, quick, and smooth installation of your light kit, please read and follow each step carefully.

If you run into any issues, please refer to the online troubleshooting guide or just send us a quick email at [support@regodesign.us](mailto:support@regodesign.us)

We will answer as soon as possible.



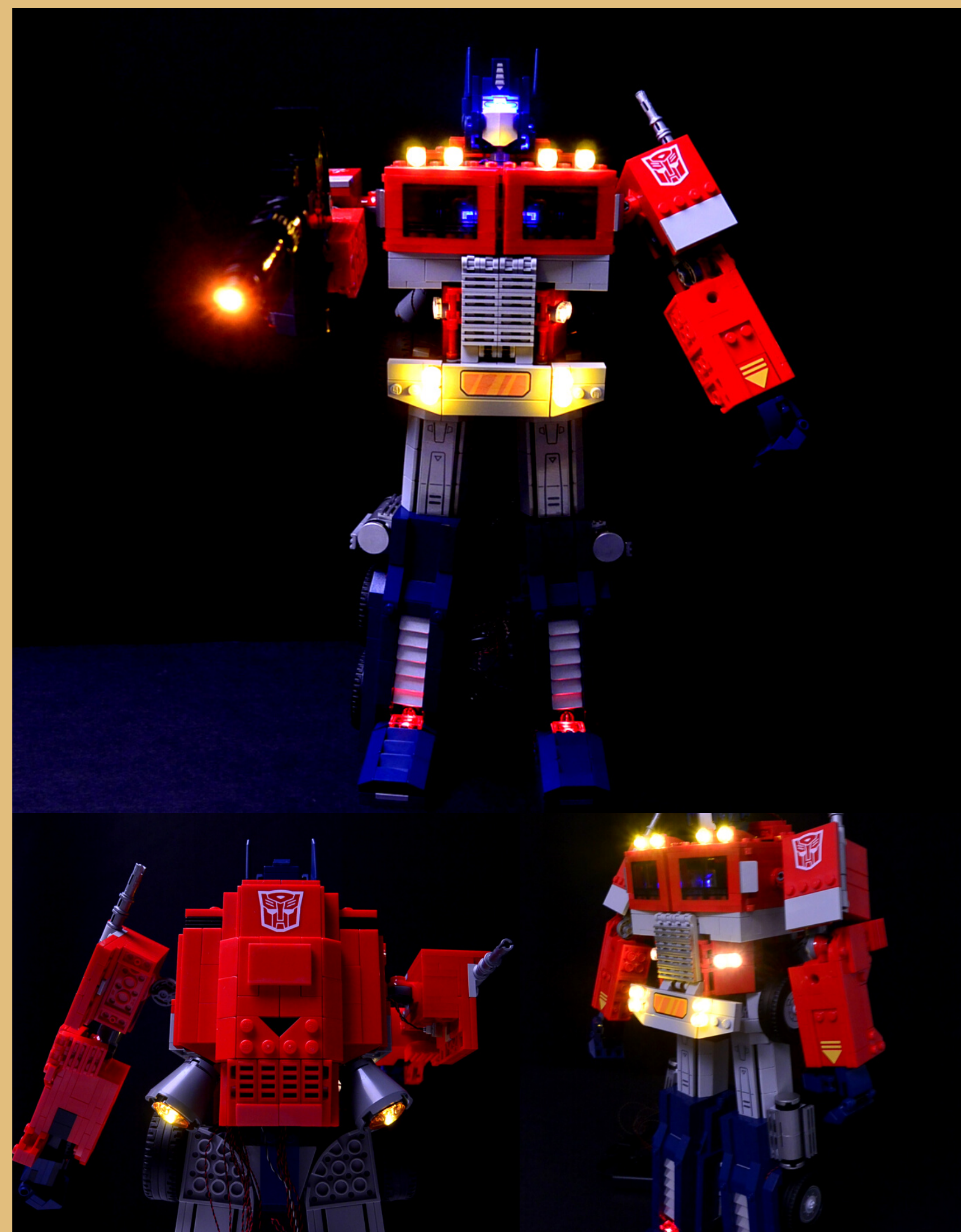




# AUTOBOT MODE INSTRUCTIONS

Light Kit Guide for instailation into Autobot Mode.

If you intend to display your Optimus Prime 10302 in Autobot form, follow the instructions bellow. If you wish to display the light kit in truck mode, you also have to follow the step and transform at the end.

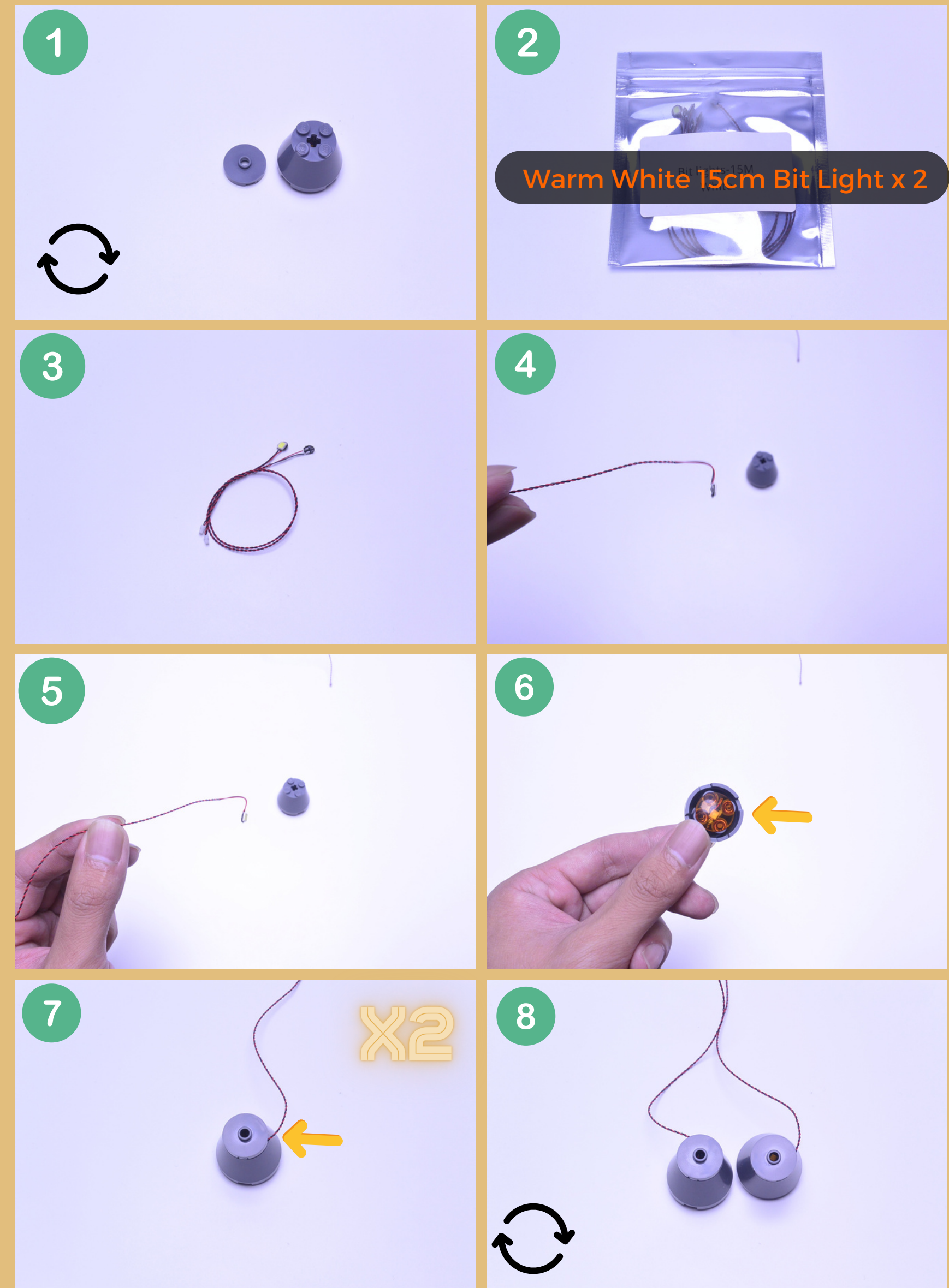
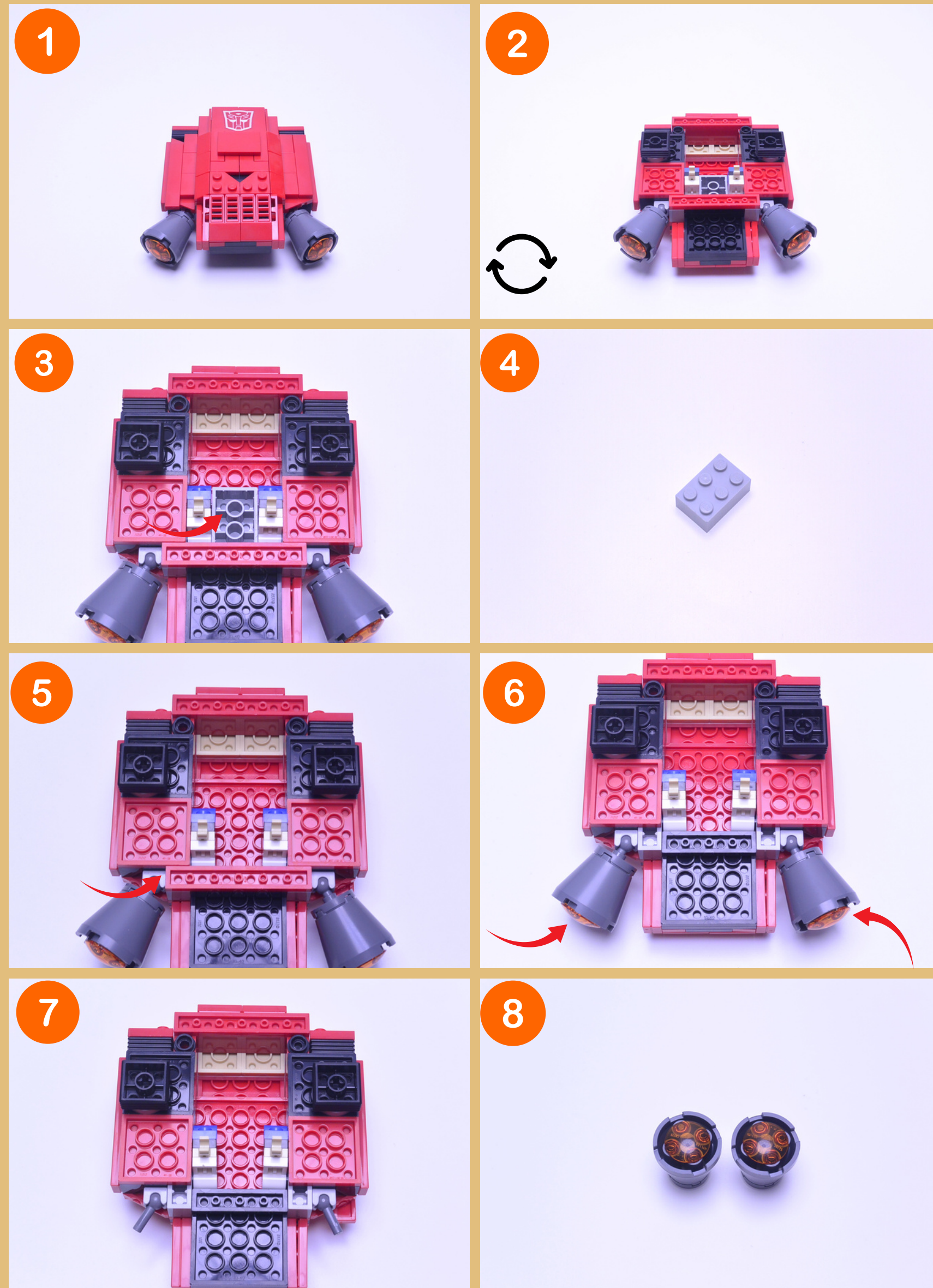






If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing expansion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

1



Push the Bit Light all the way down to the Transparent Orange Plate 2 x 2 Round with Rounded Bottom

LEGEND



DISCONNECT


CONNECT  
RECONNECT


TURN / FLIP



DIRECTIONAL



TWIST / BRAID



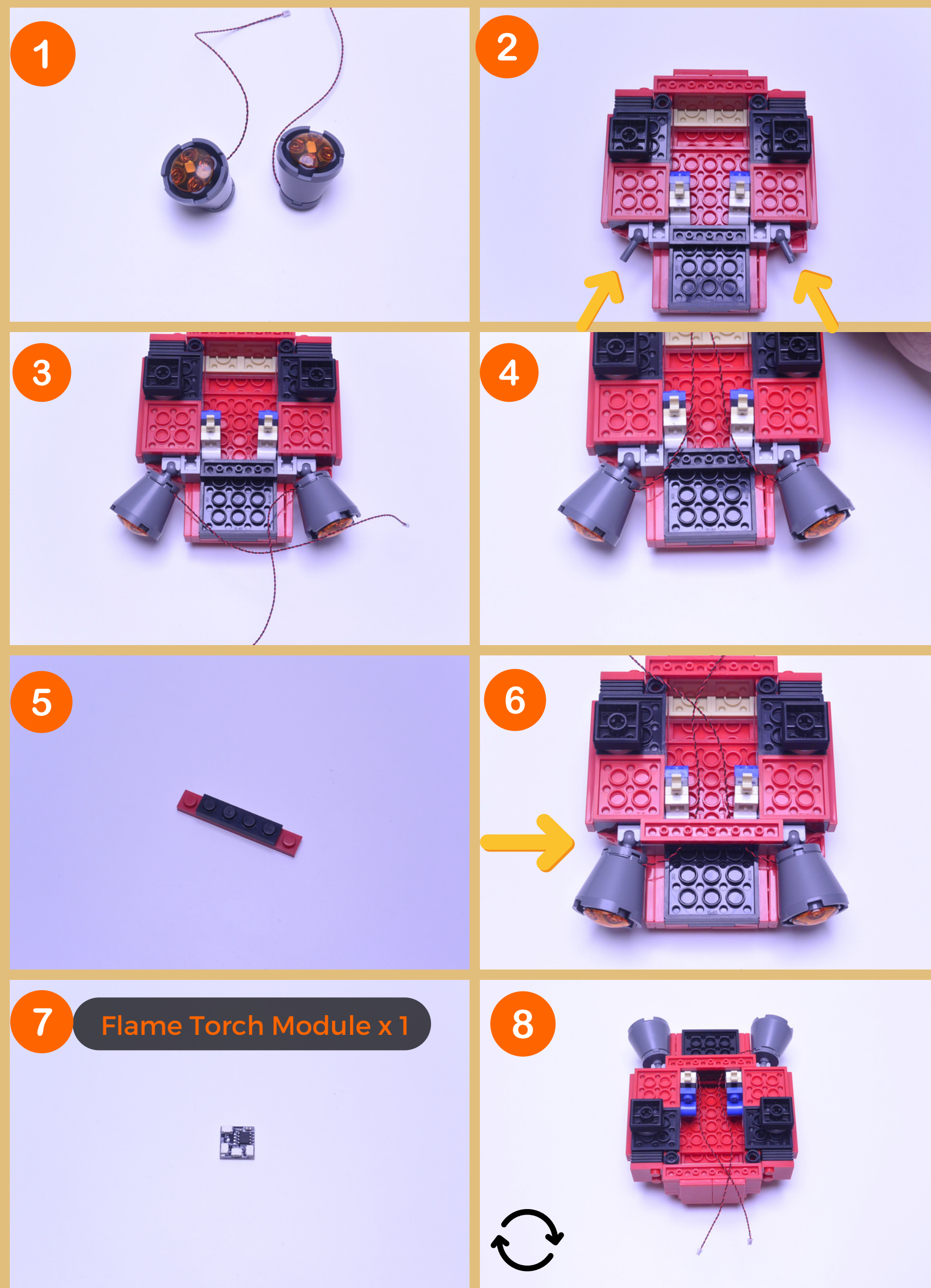
POWER ON TEST



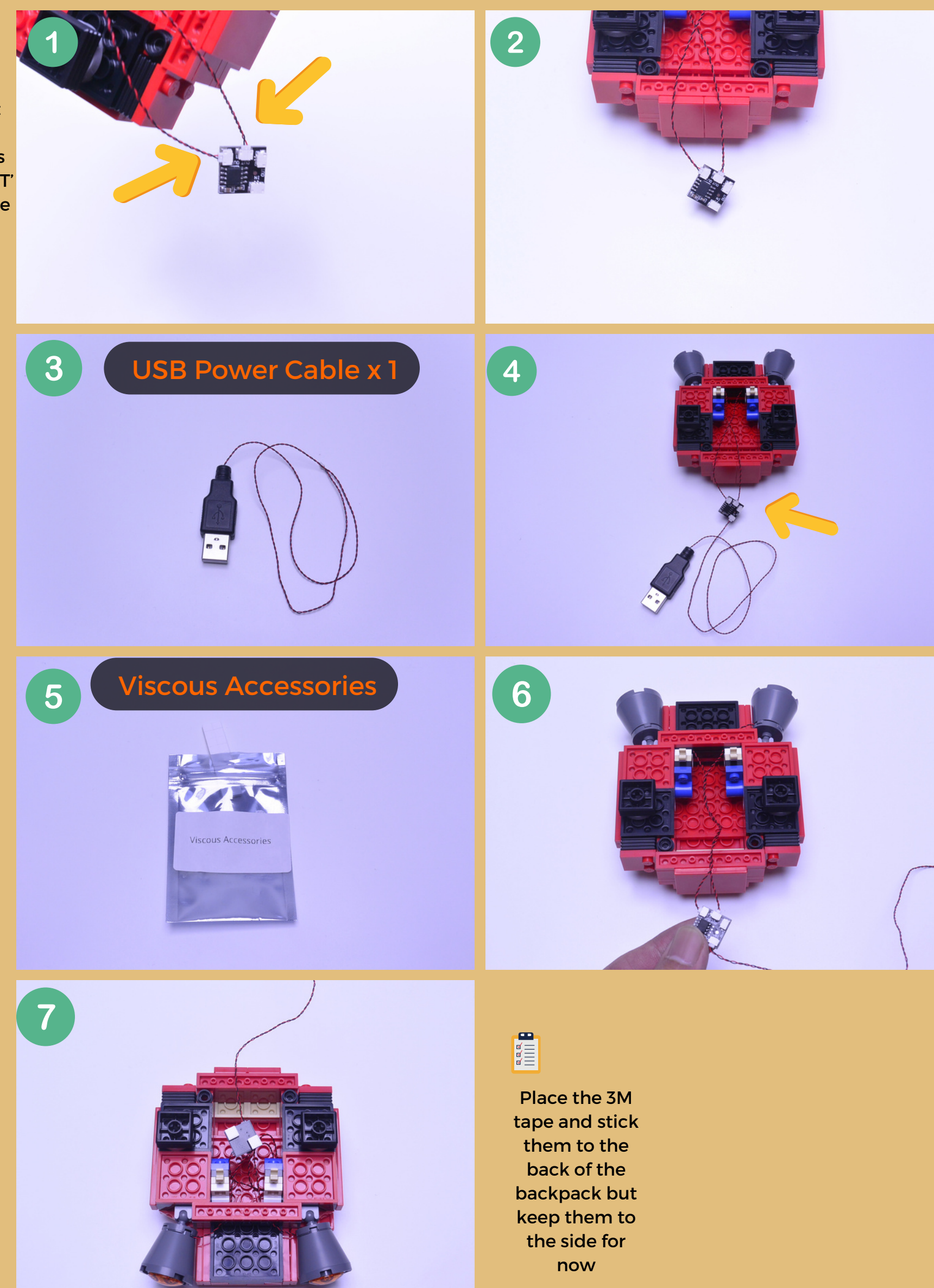
NOTE ICON



2



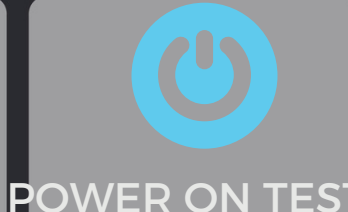
Connect the two Bit Lights to the 'OUT' port of the Flicker



Connect the USB Power Cable to the 'IN' Port of the Flame torch module

Place the 3M tape and stick them to the back of the backpack but keep them to the side for now

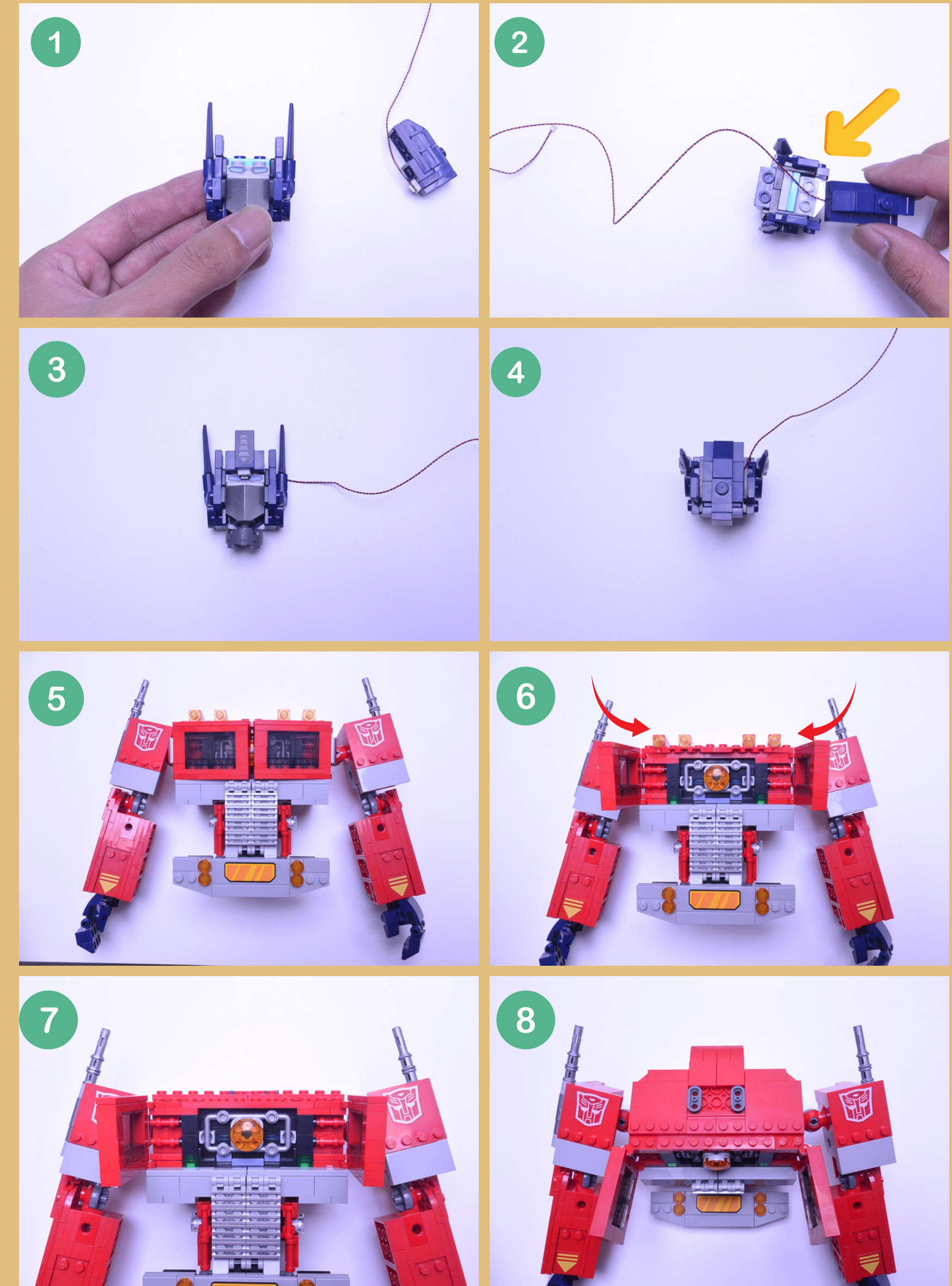
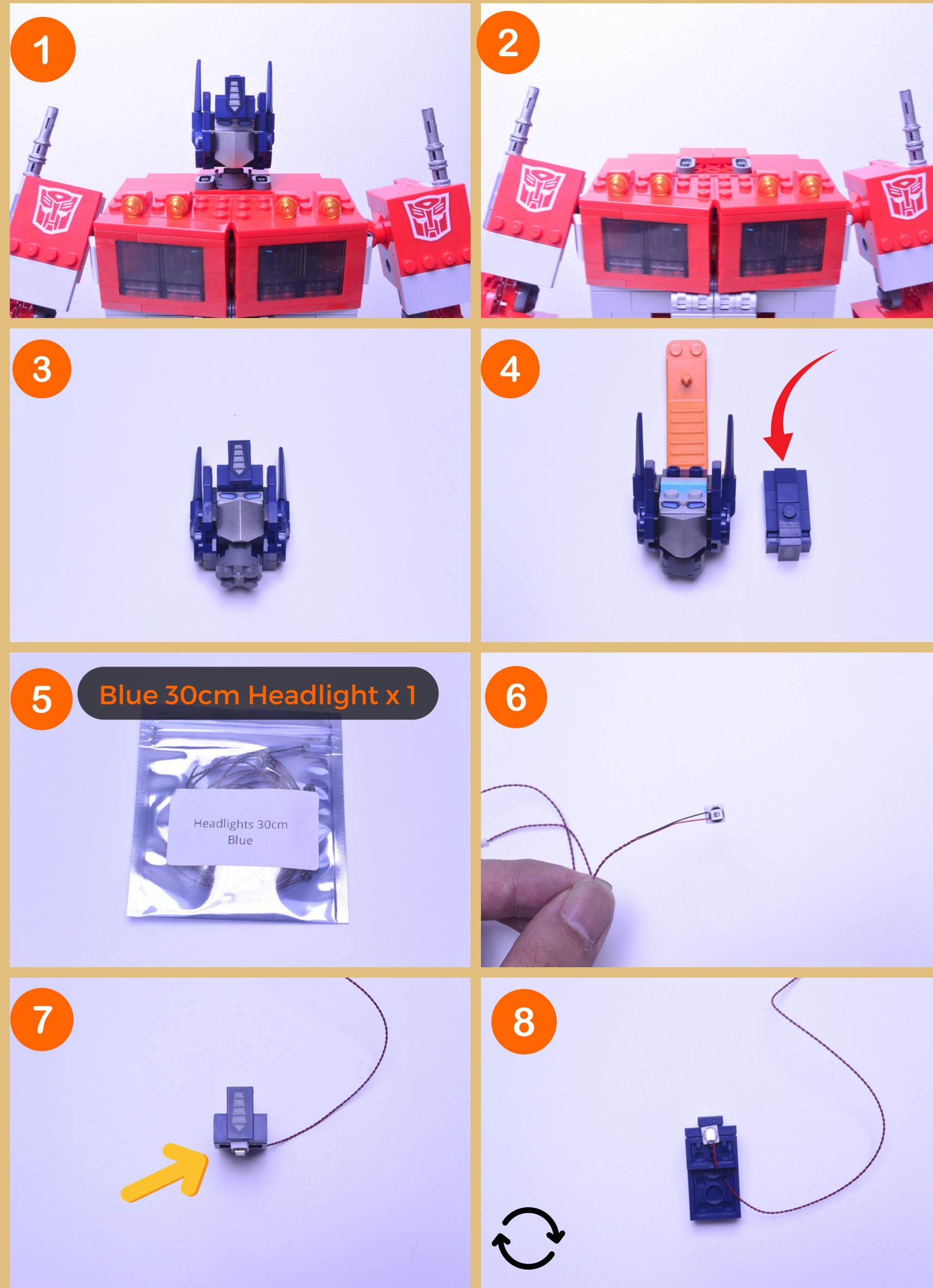
LEGEND



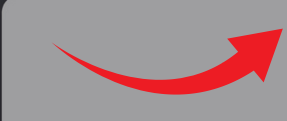
NOTE ICON



3



LEGEND



DISCONNECT



CONNECT  
RECONNECT



TURN / FLIP



DIRECTIONAL



TWIST / BRAID



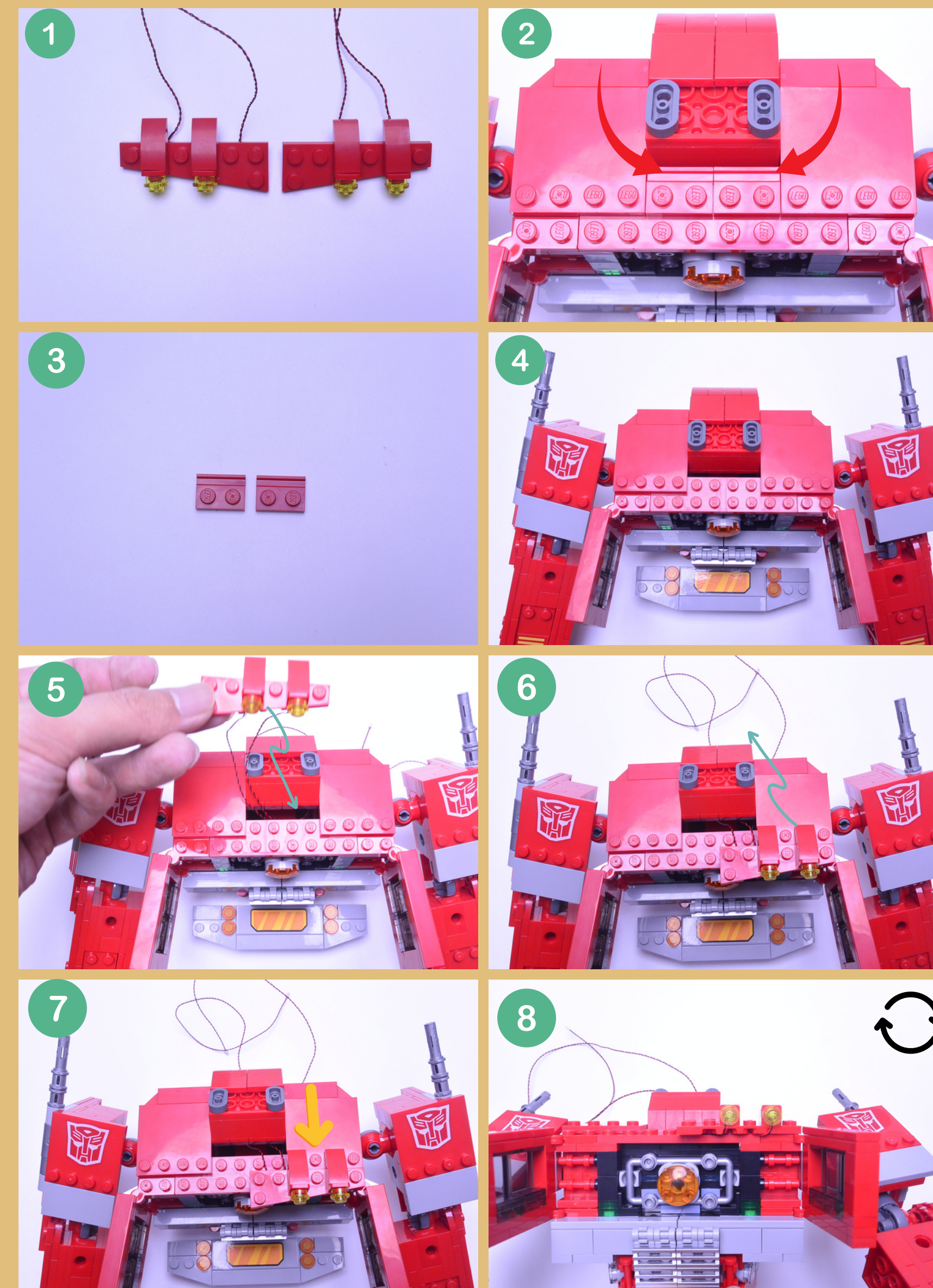
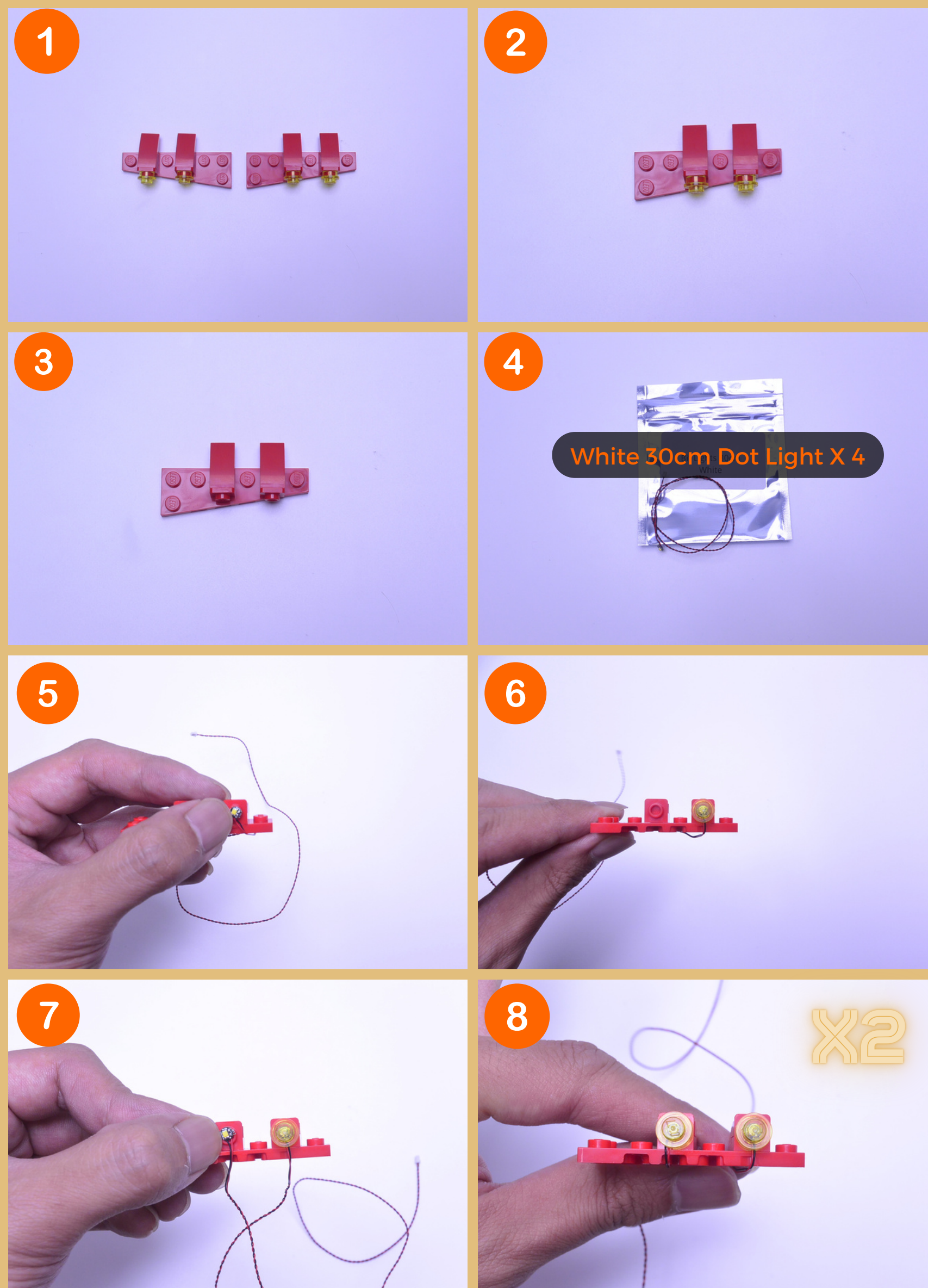
POWER ON TEST



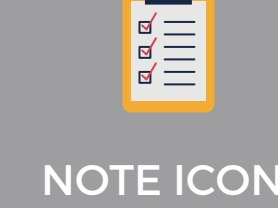
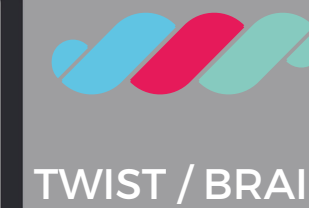
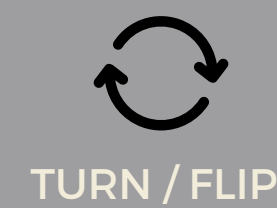
NOTE ICON



4

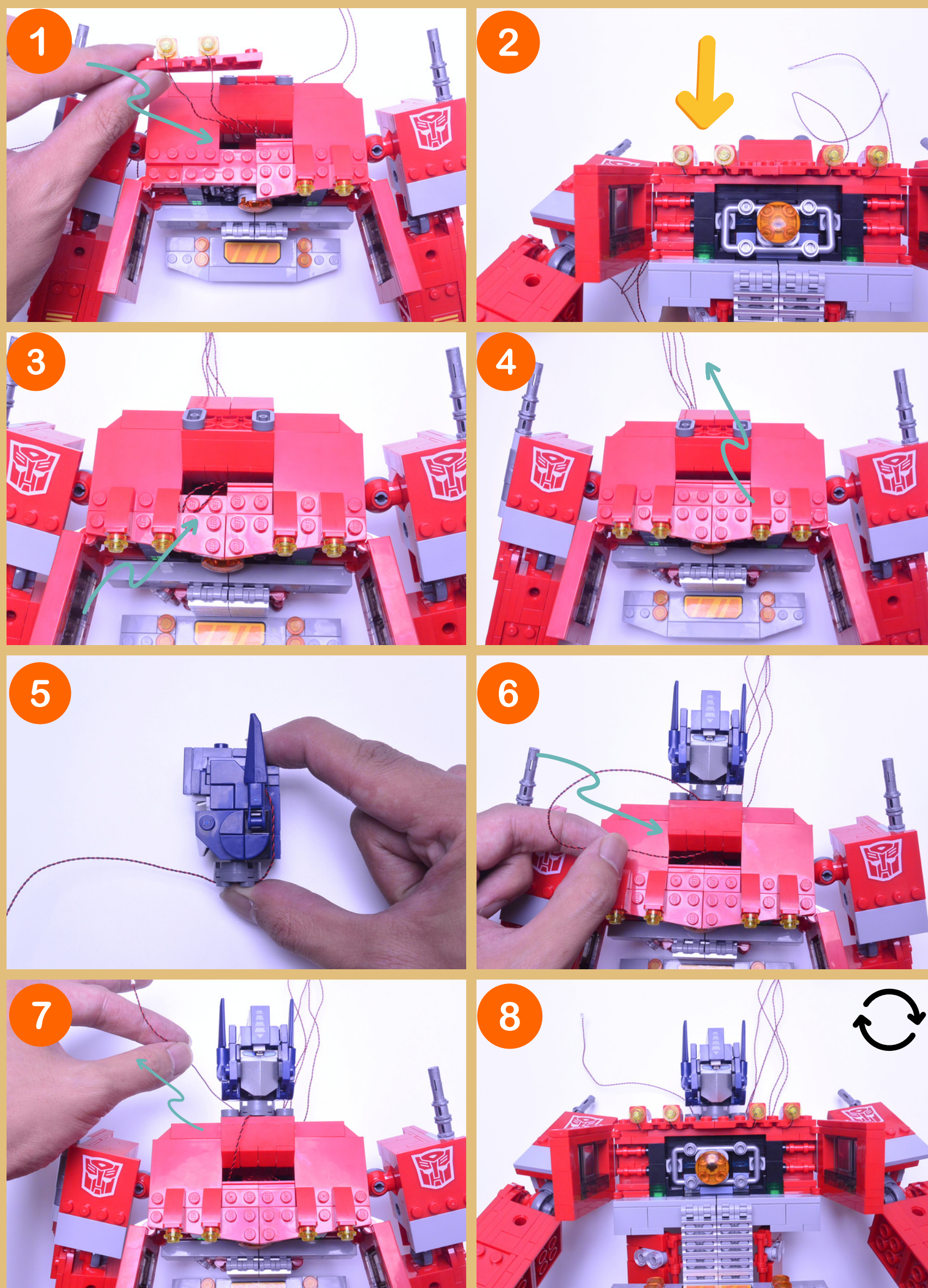


LEGEND

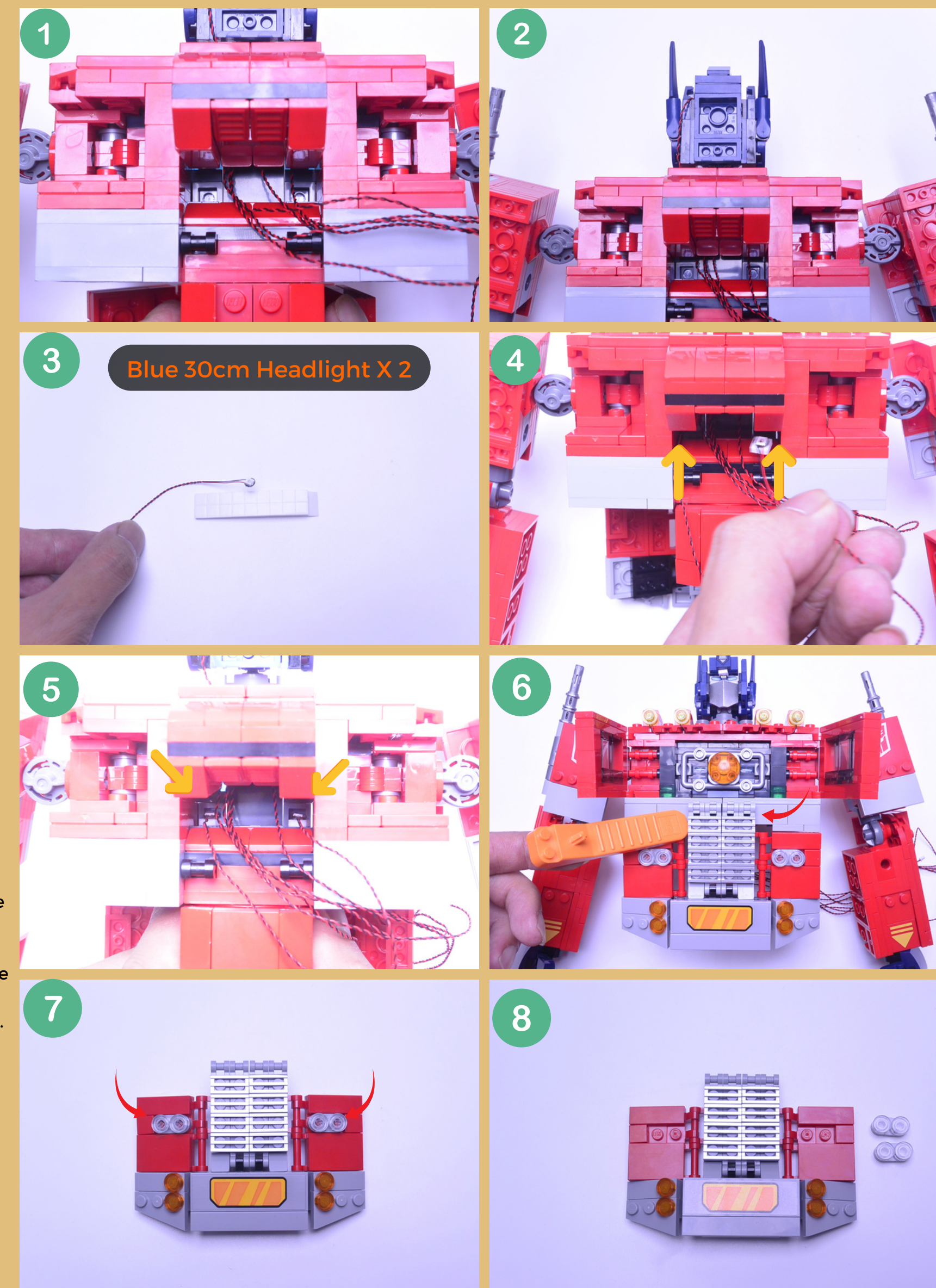




5



The wire that connect to the head has to be put separately from the other wires



Glued the 3M tape to the 2 blue headlights, and placed them inside as far as you can. Do it on both side.

LEGEND

DISCONNECT

CONNECT  
RECONNECT

TURN / FLIP

DIRECTIONAL

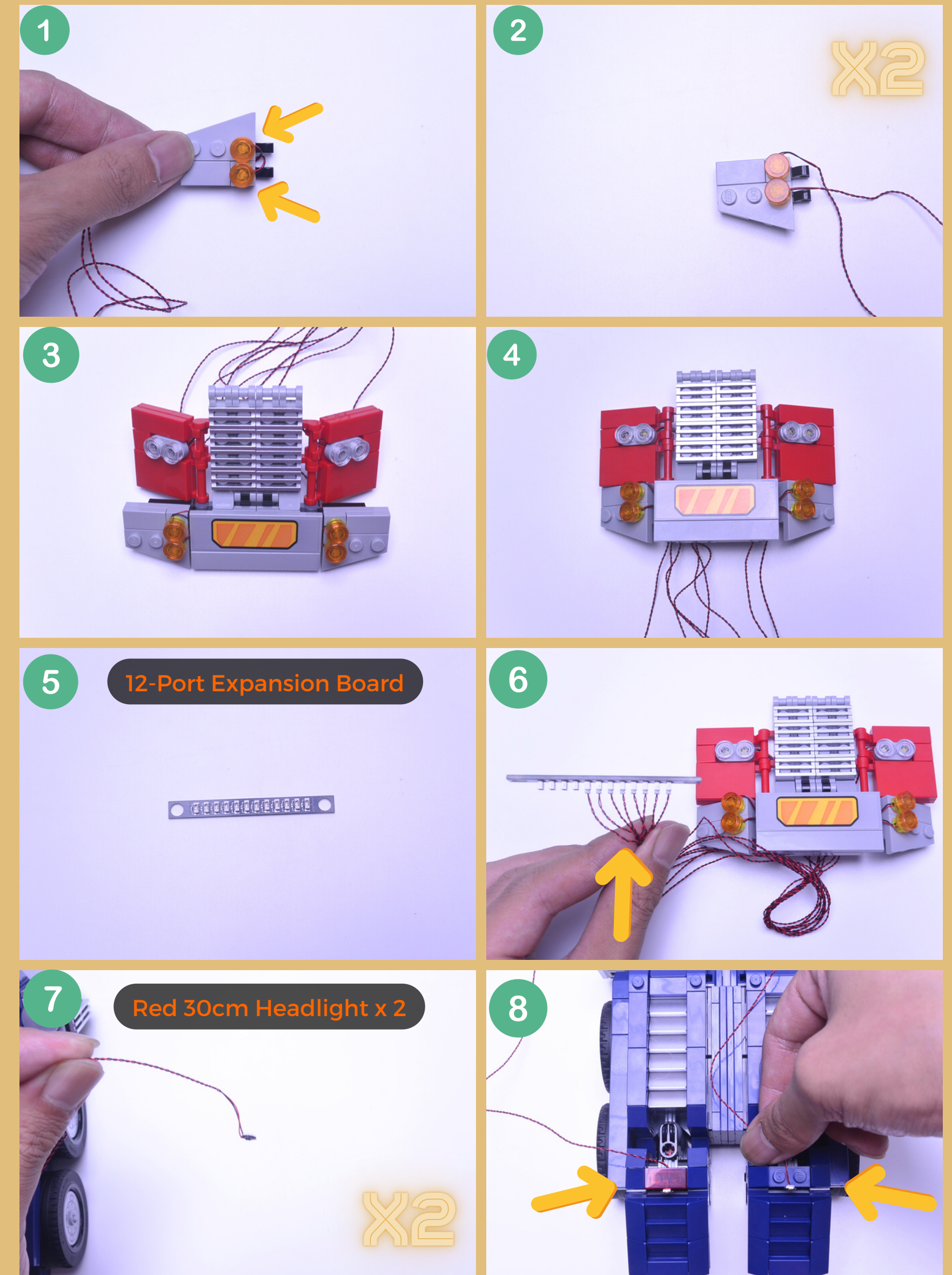
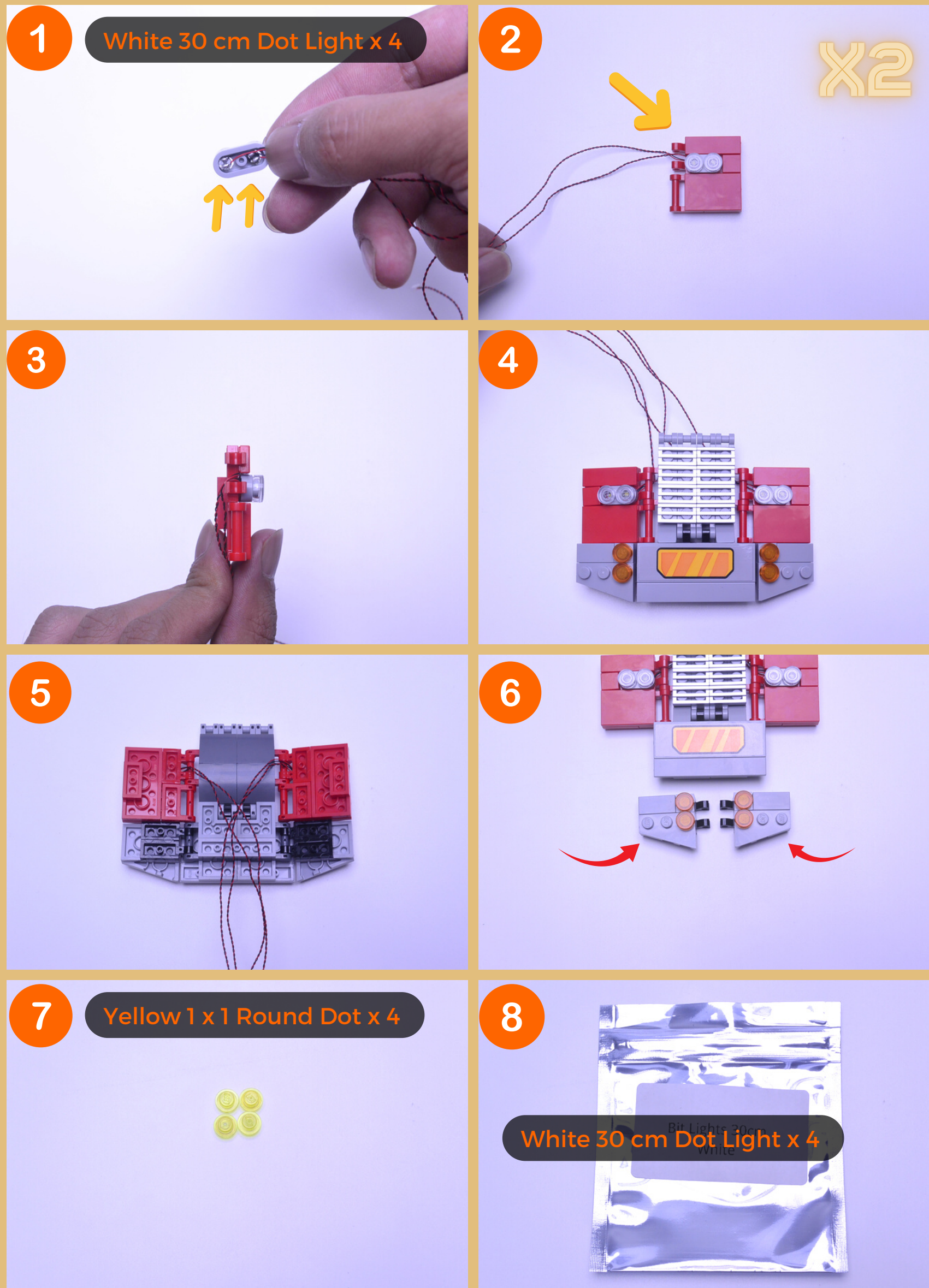
TWIST / BRAID

POWER ON TEST

NOTE ICON



6



LEGEND



DISCONNECT



CONNECT  
RECONNECT



TURN / FLIP



DIRECTIONAL



TWIST / BRAID



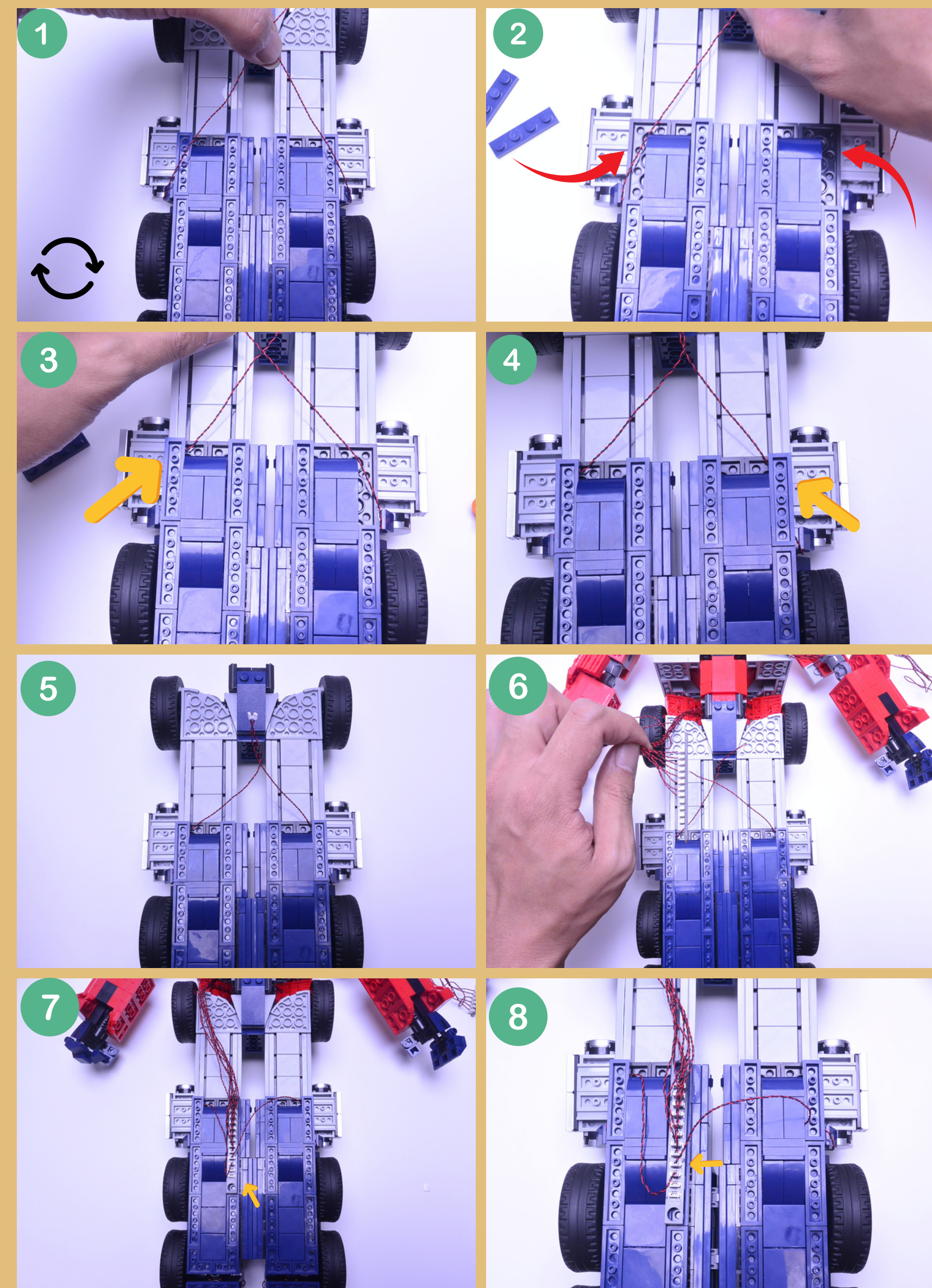
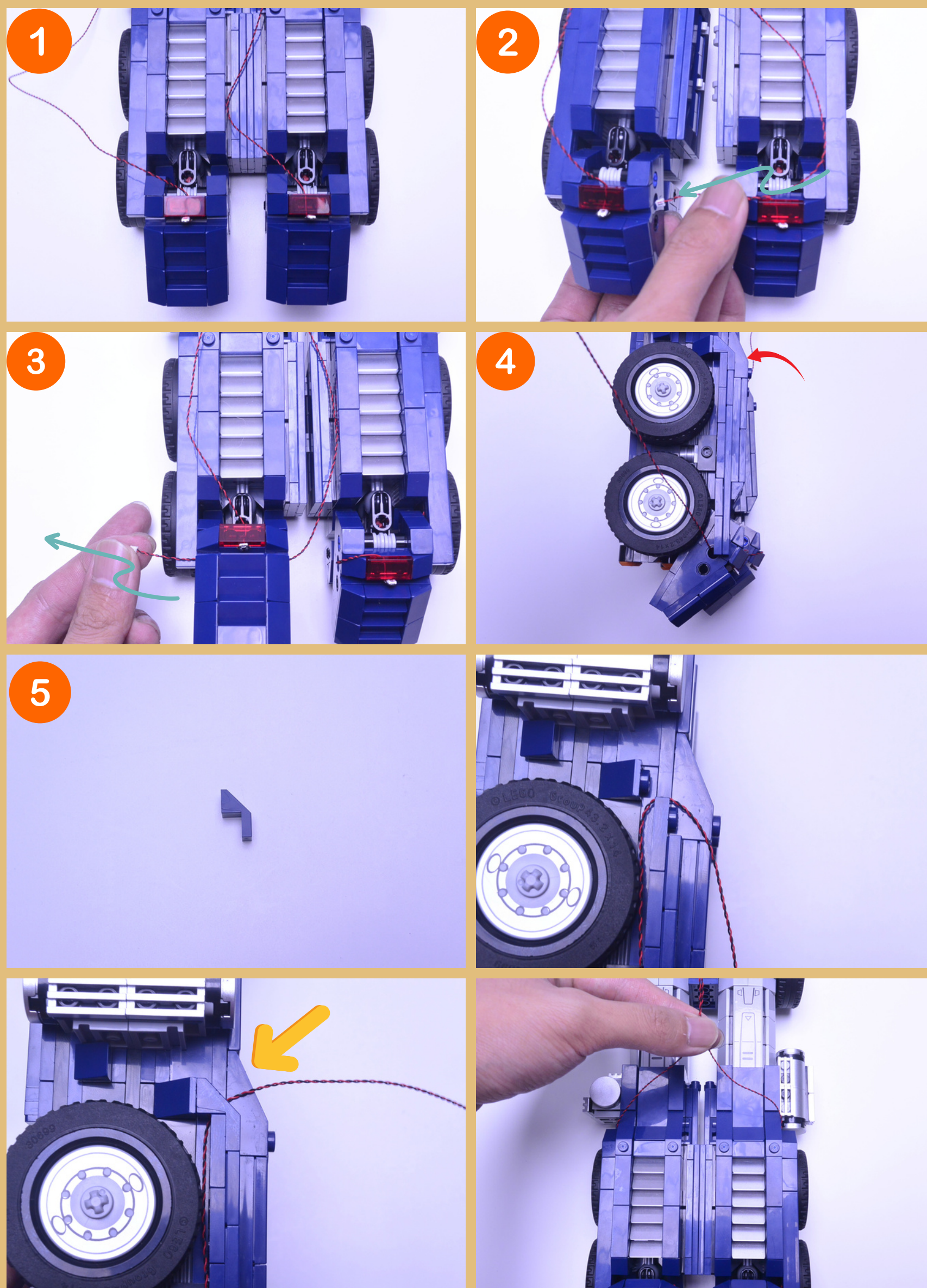
POWER ON TEST




NOTE ICON



7




 The wire on the right leg has to connect to the 12-port Expansion Board just for now, to avoid confusion later.

## LEGEND



DISCONNECT


CONNECT  
RECONNECT


TURN / FLIP



DIRECTIONAL



TWIST / BRAID

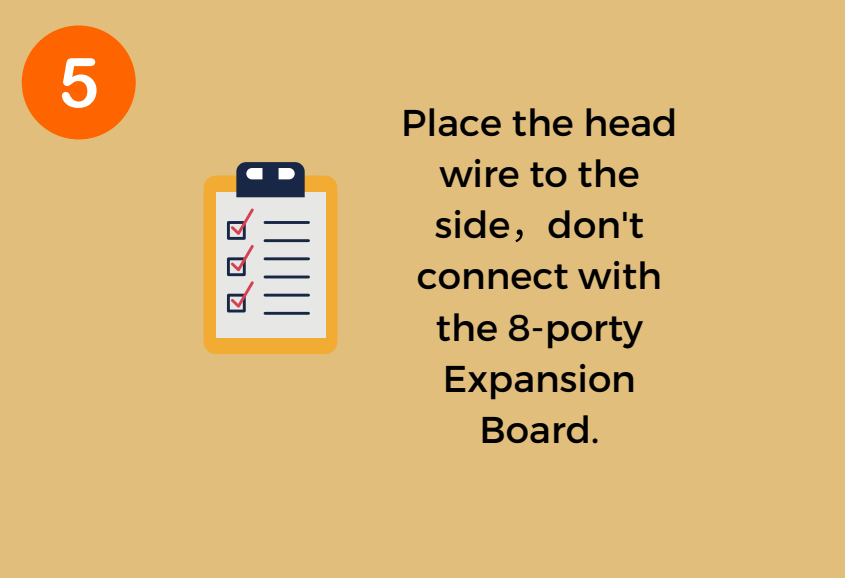
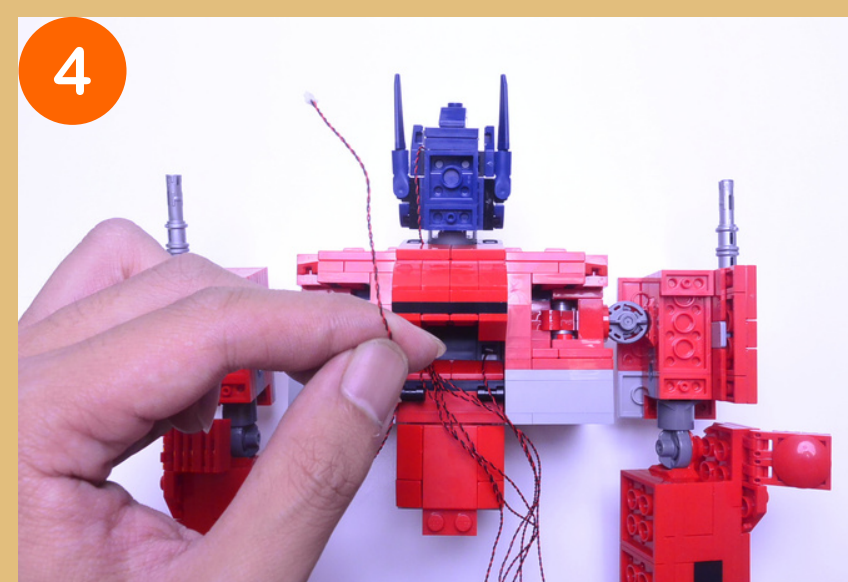
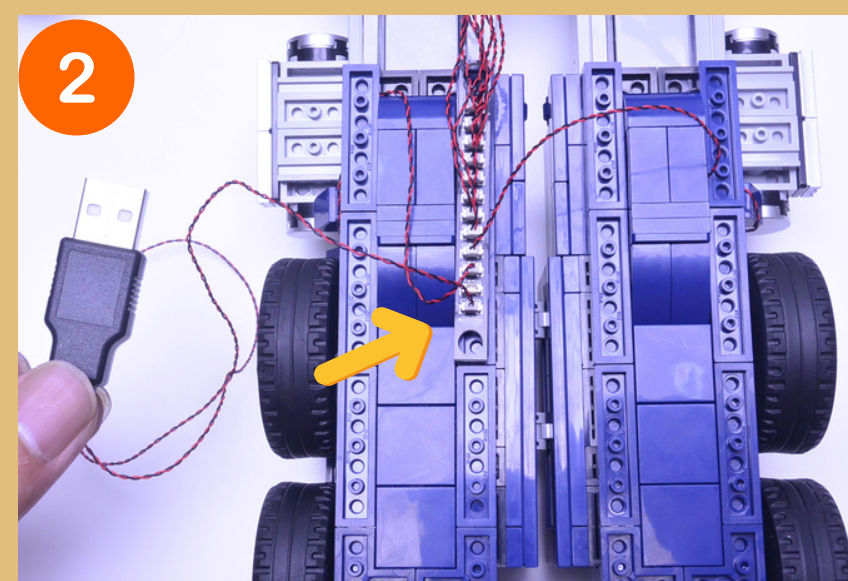


POWER ON TEST

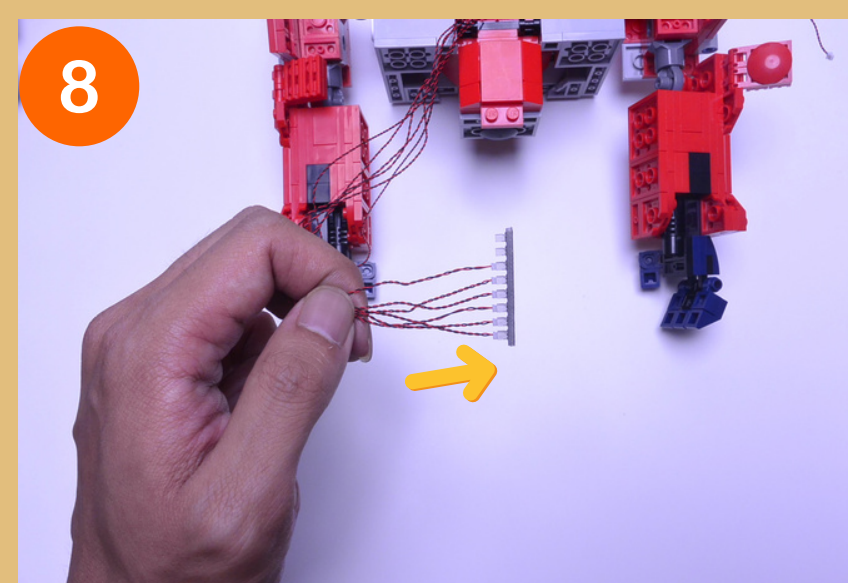
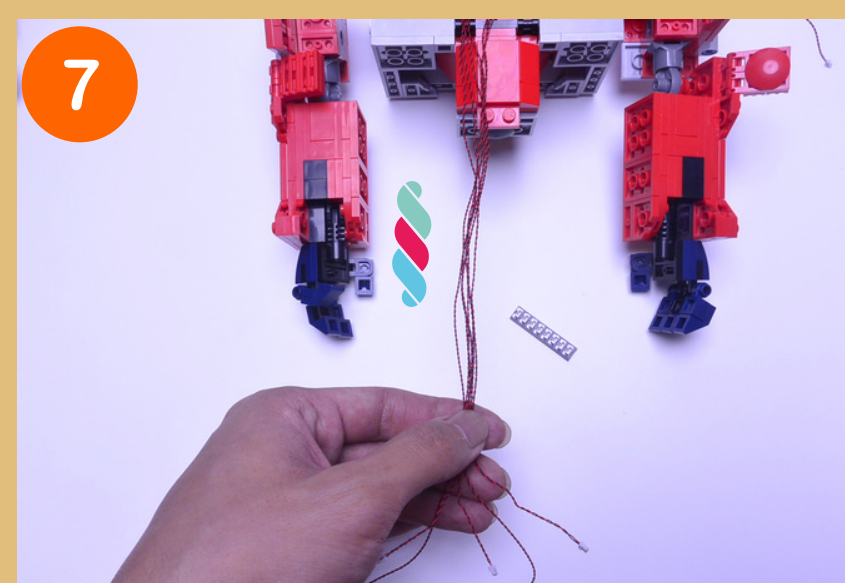
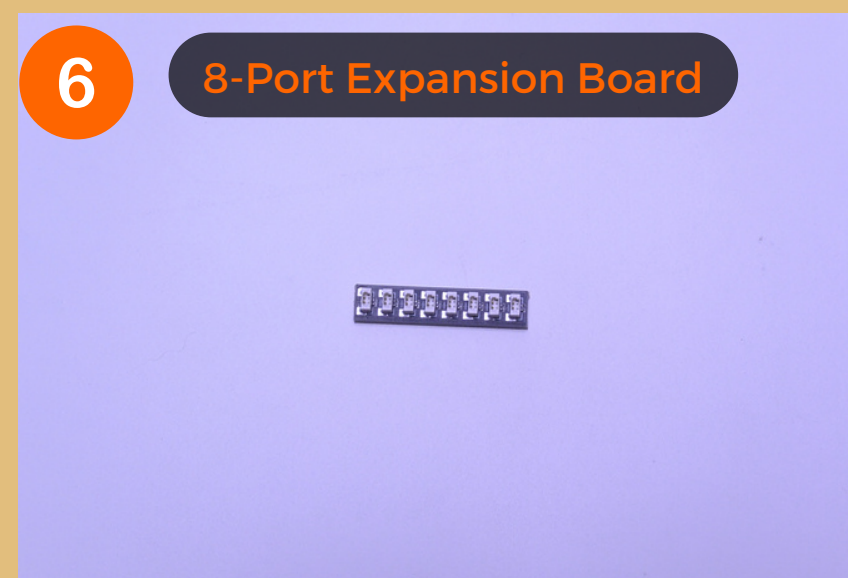


NOTE ICON

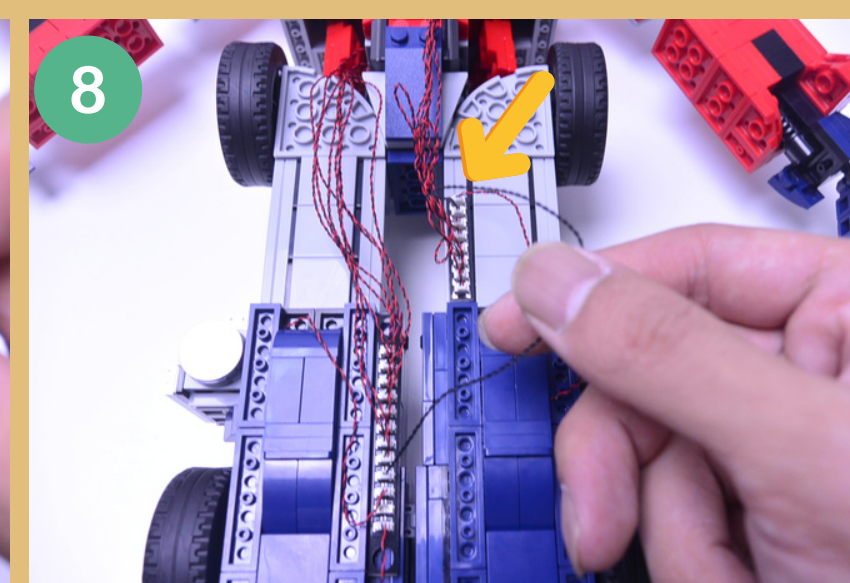
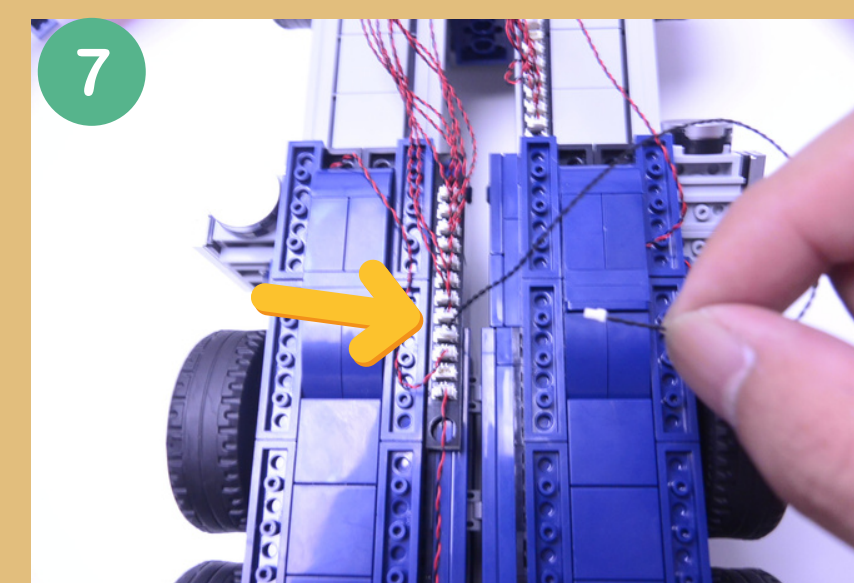
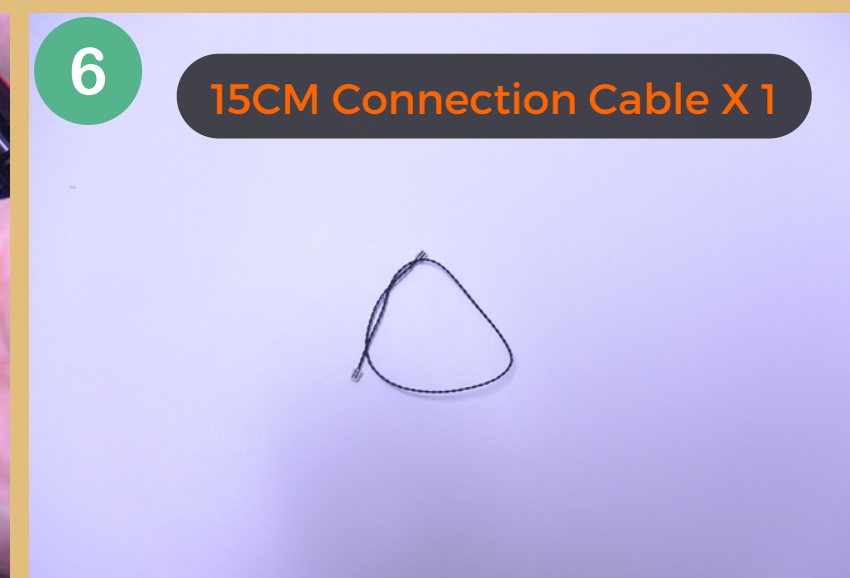
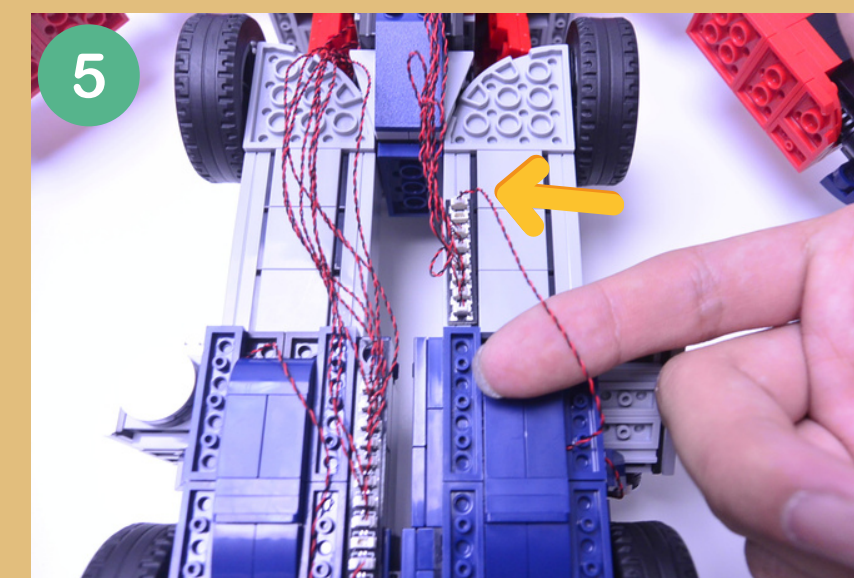
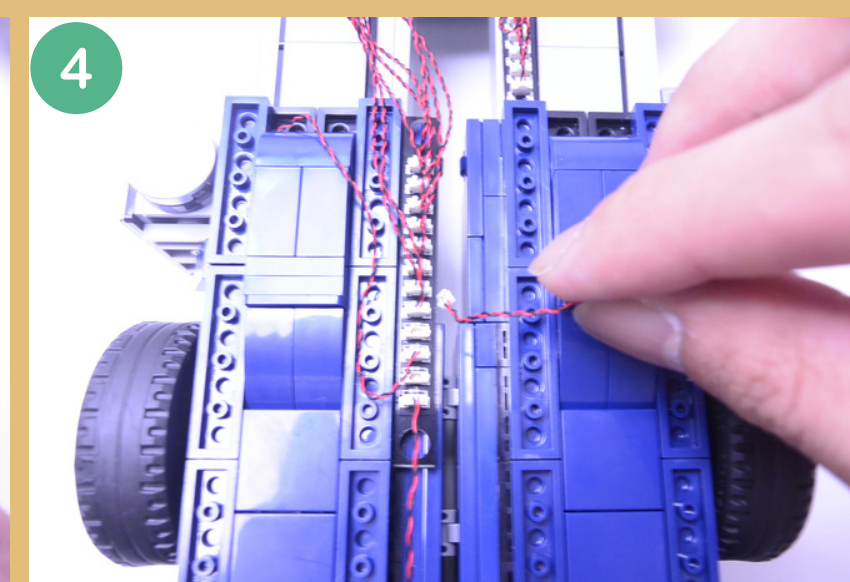
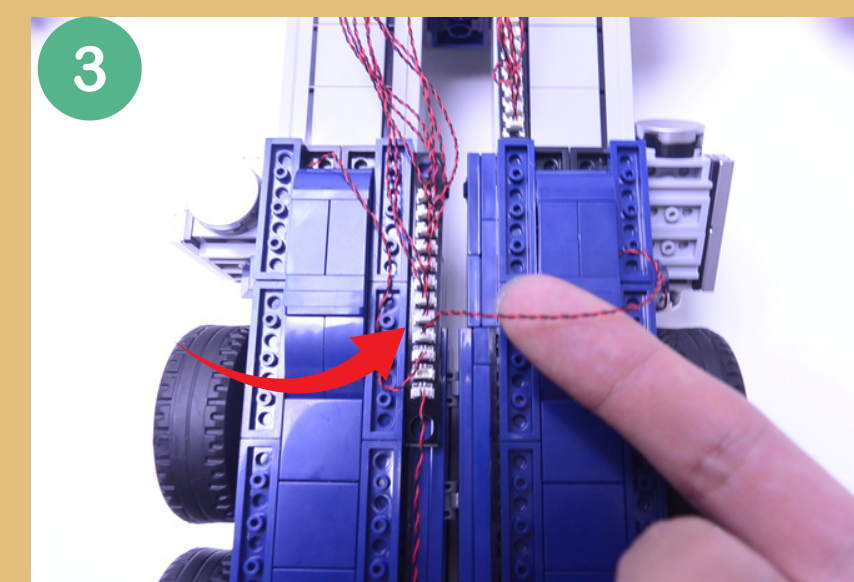
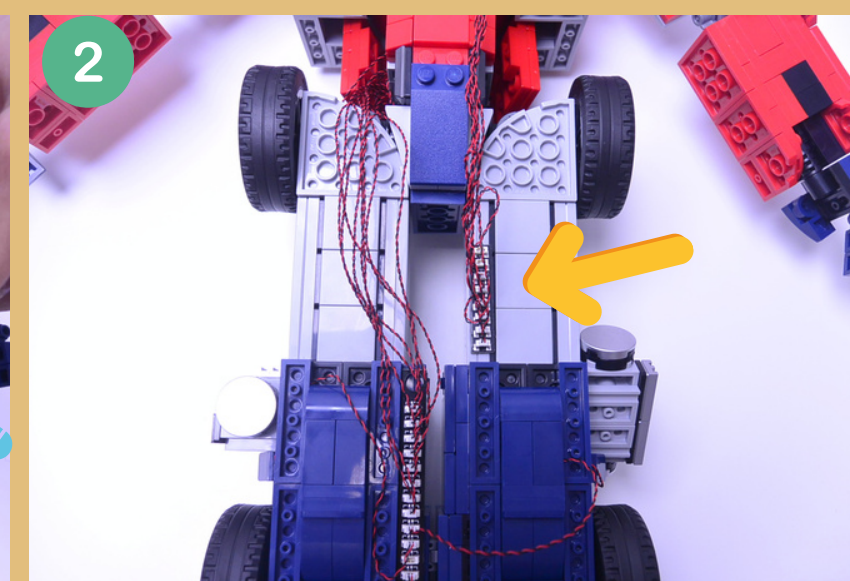
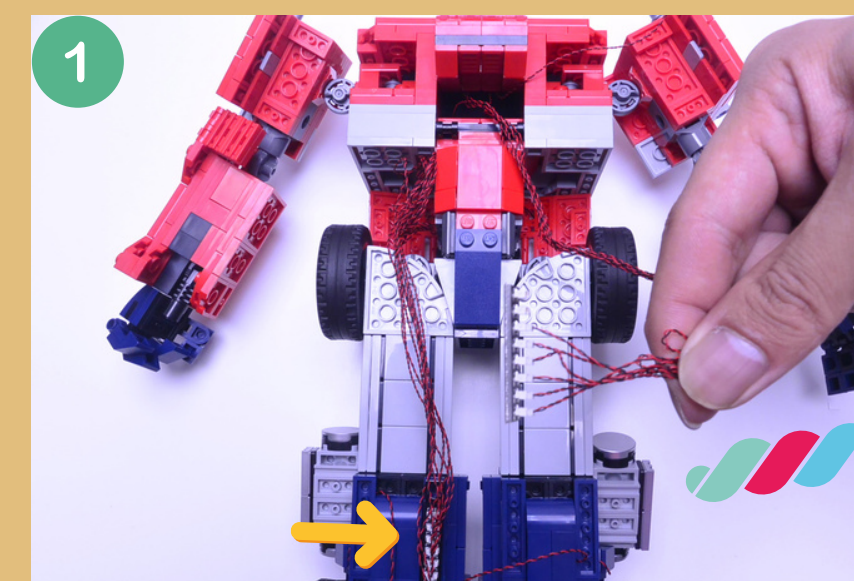
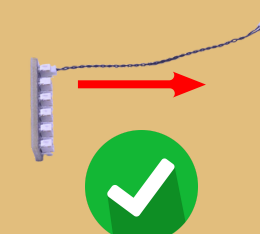




Place the head wire to the side, don't connect with the 8-port Expansion Board.



Transfer to the right legs wire from the 12-port Expansion Board to the 8-port Expansion board.



## LEGEND



DISCONNECT


CONNECT  
RECONNECT


TURN / FLIP



DIRECTIONAL



TWIST / BRAID



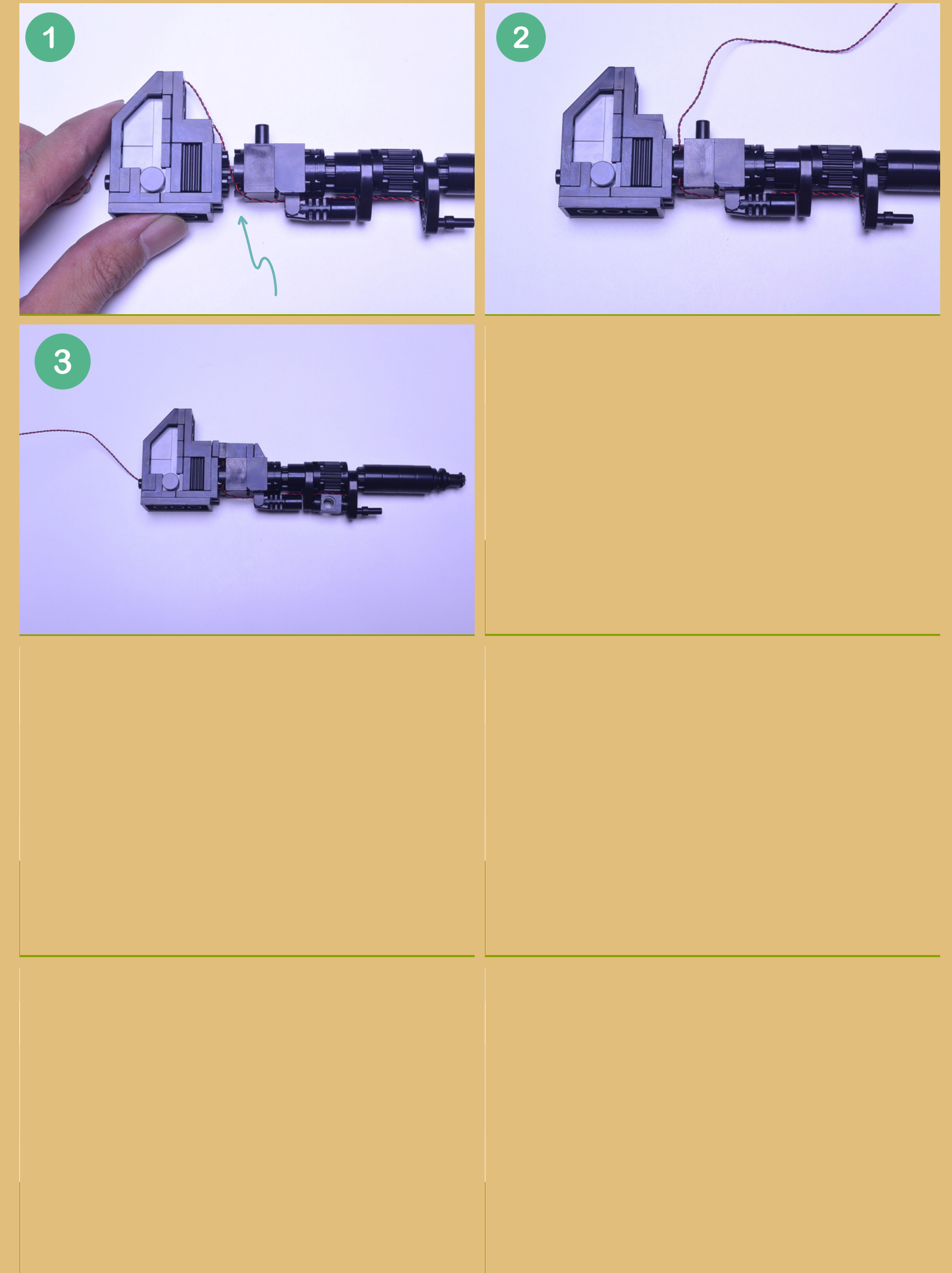
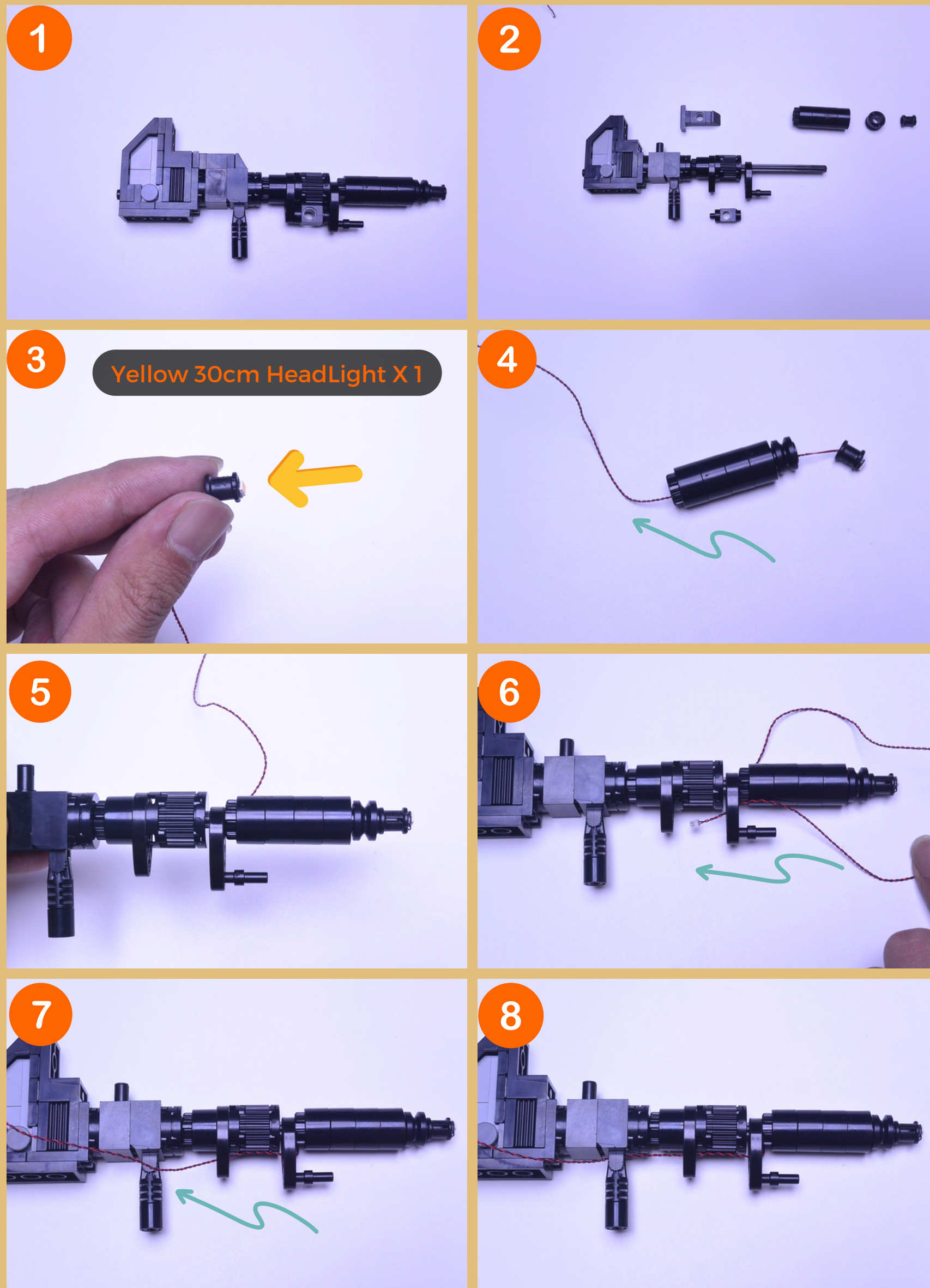
POWER ON TEST



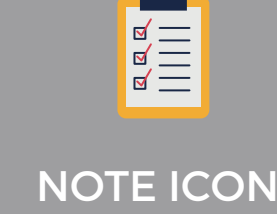
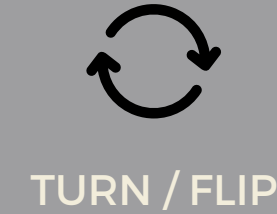
NOTE ICON



9



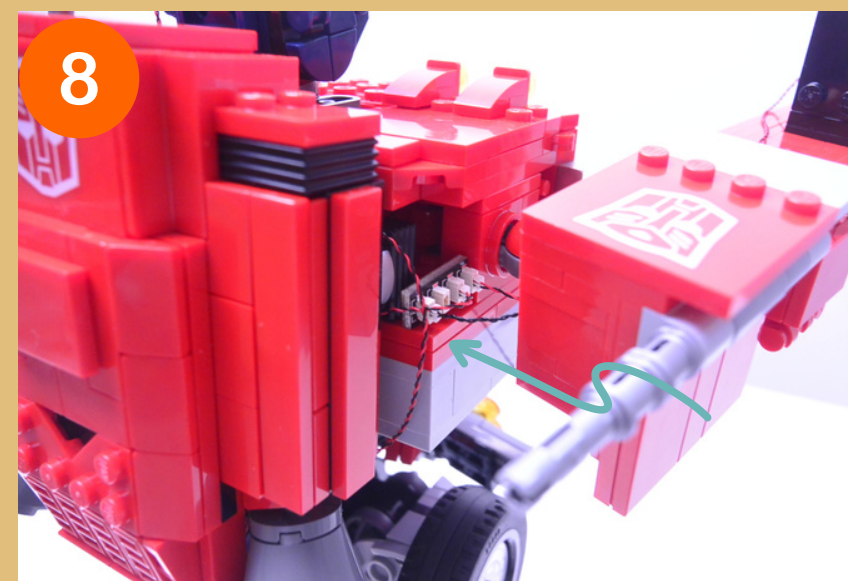
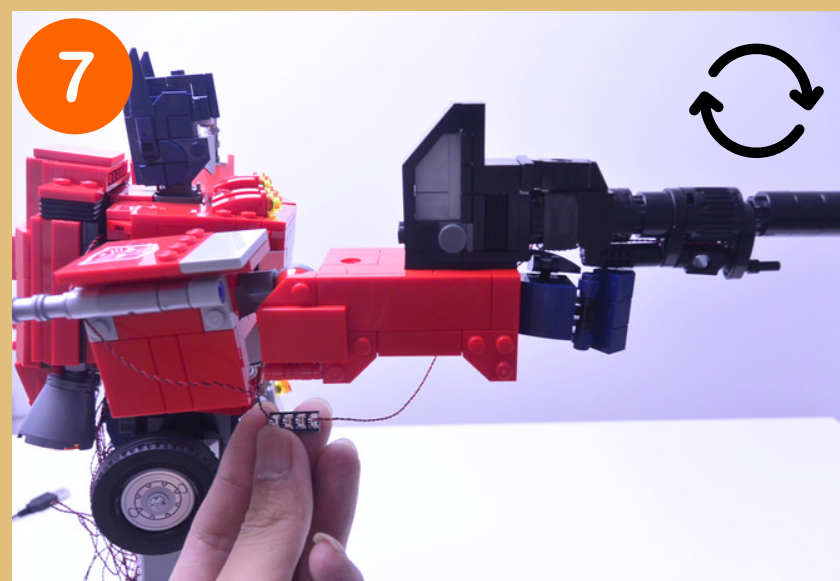
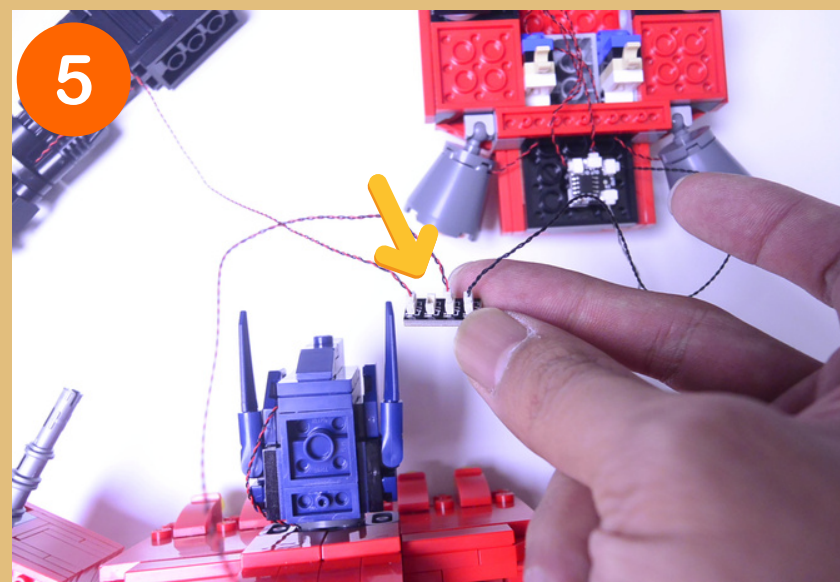
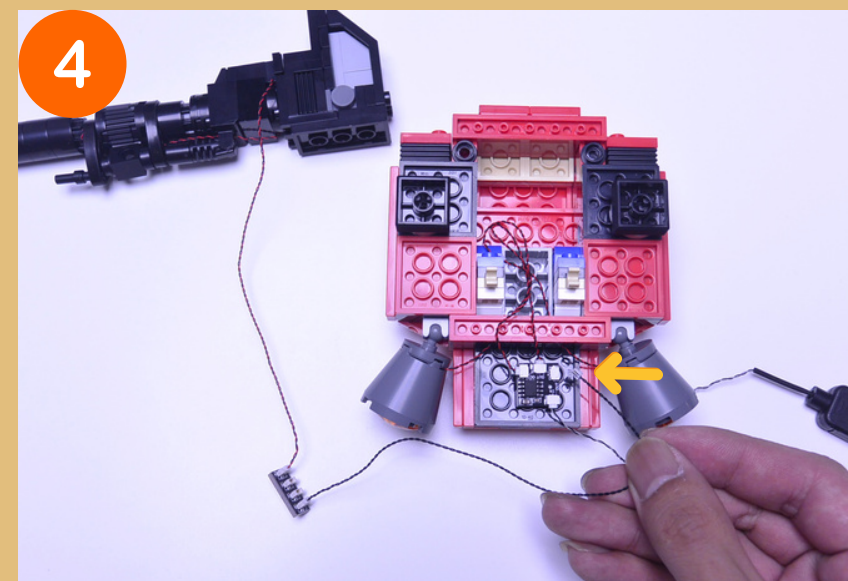
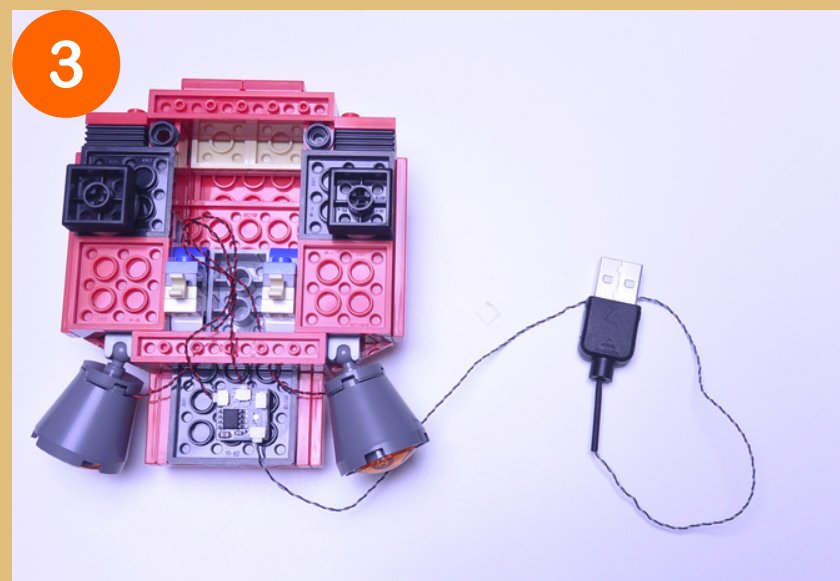
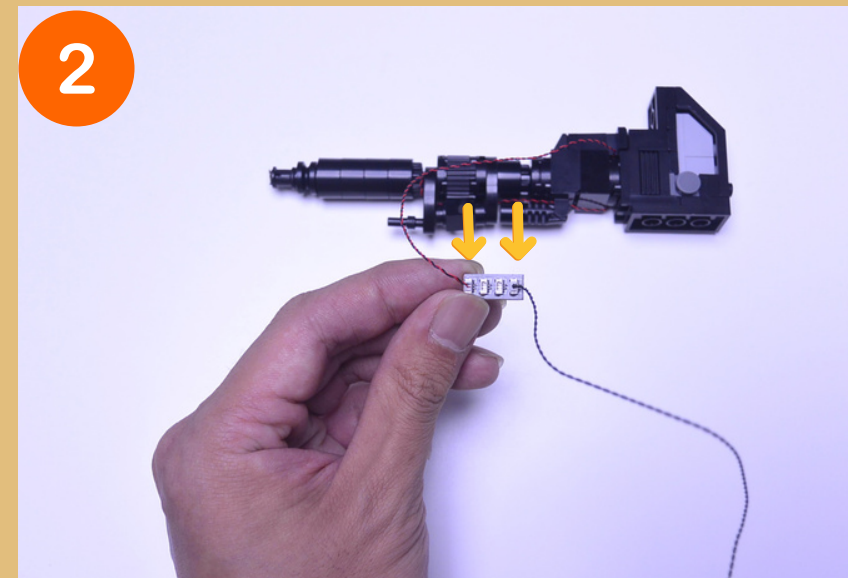
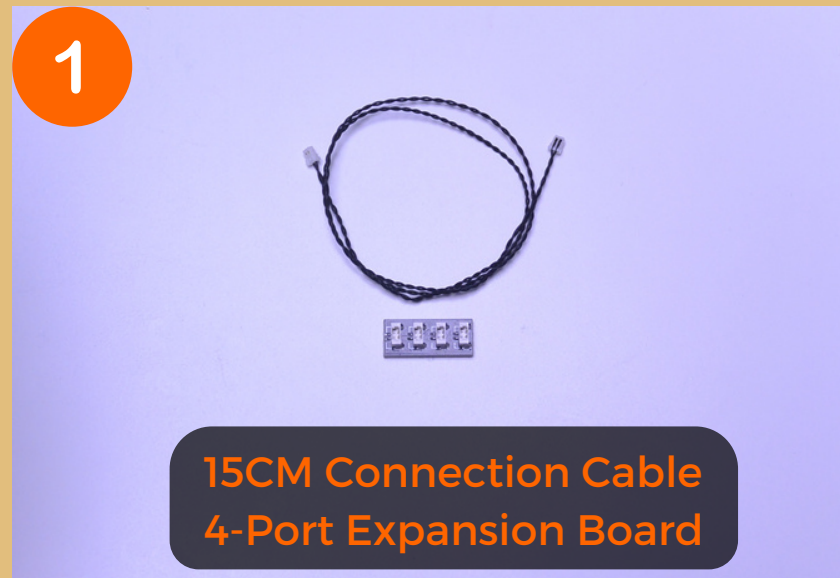
LEGEND





10

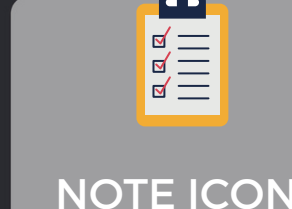
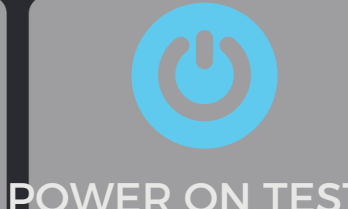
If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing expansion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



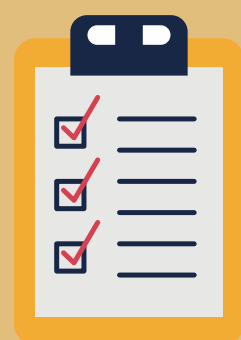
Plac the 4-port Expansion Board to where the picture shows, no need for any 3M tape, so it can be transfer to truck mode



LEGEND

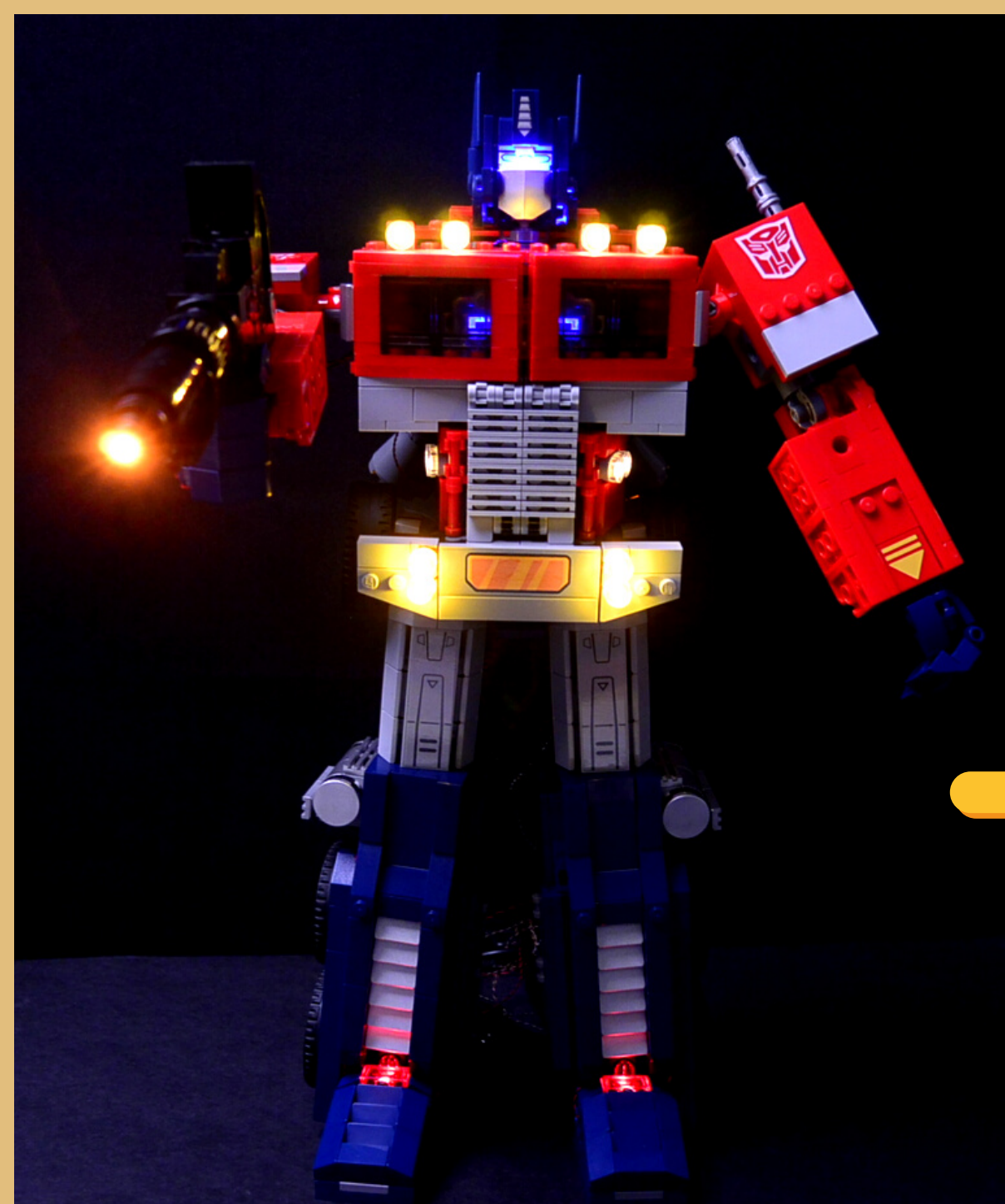






# INSTRUCTIONS

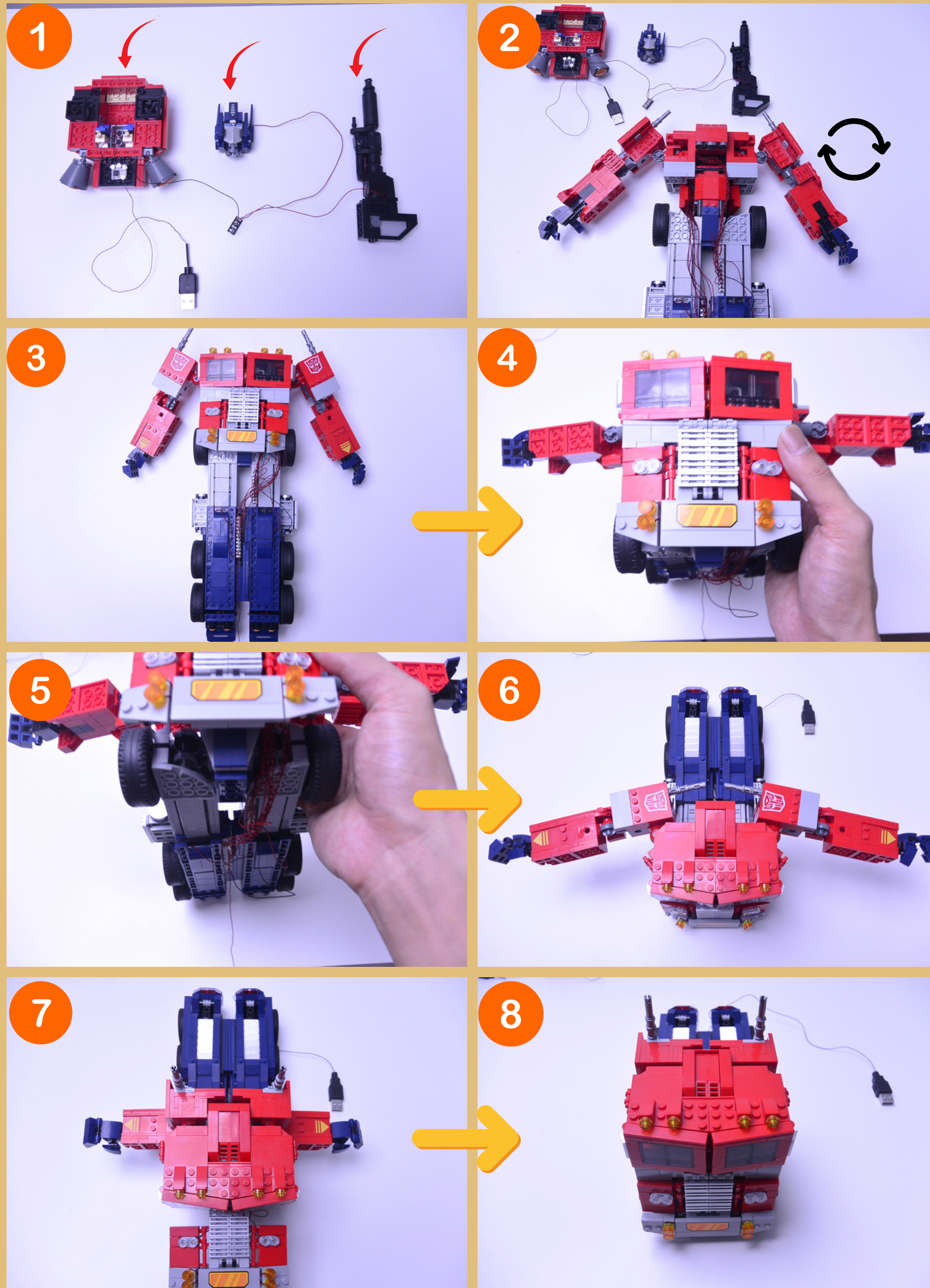
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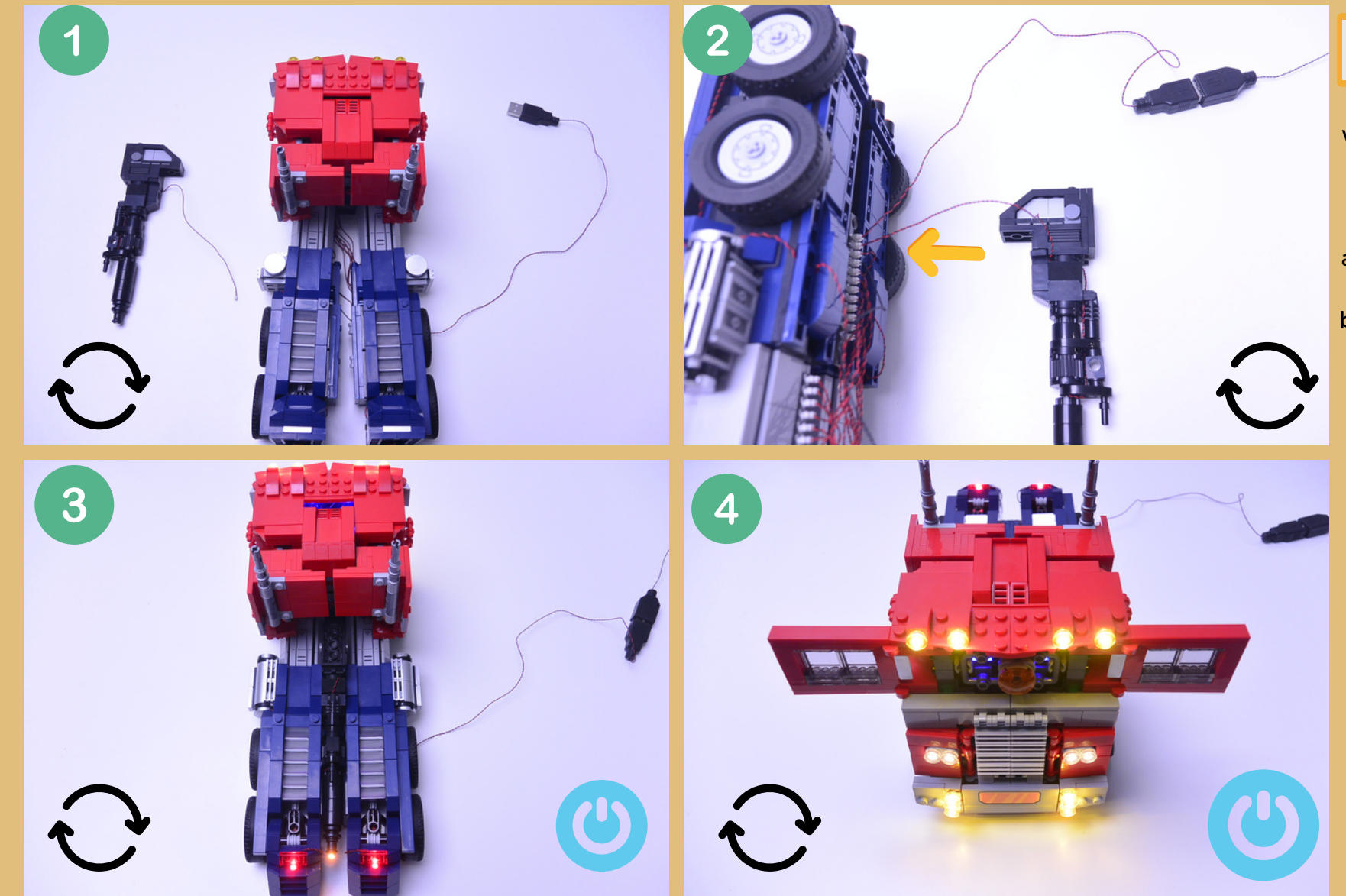


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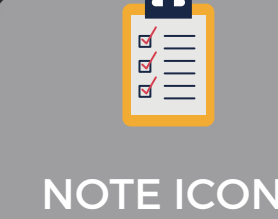
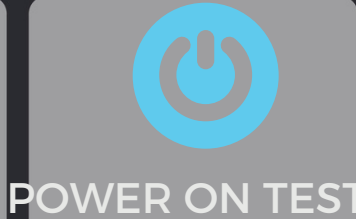
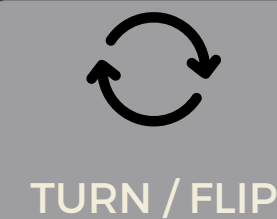
Turn the whole body form right to left, please be careful on the wire, so they don't become knot



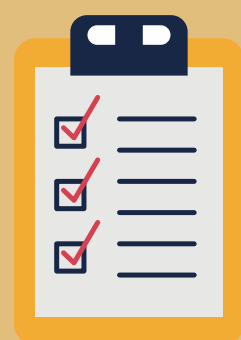
Connect the wire on the gun to the 2-port Expansion Board, and crossed the wire to go in between the leg and up, up, up.



## LEGEND

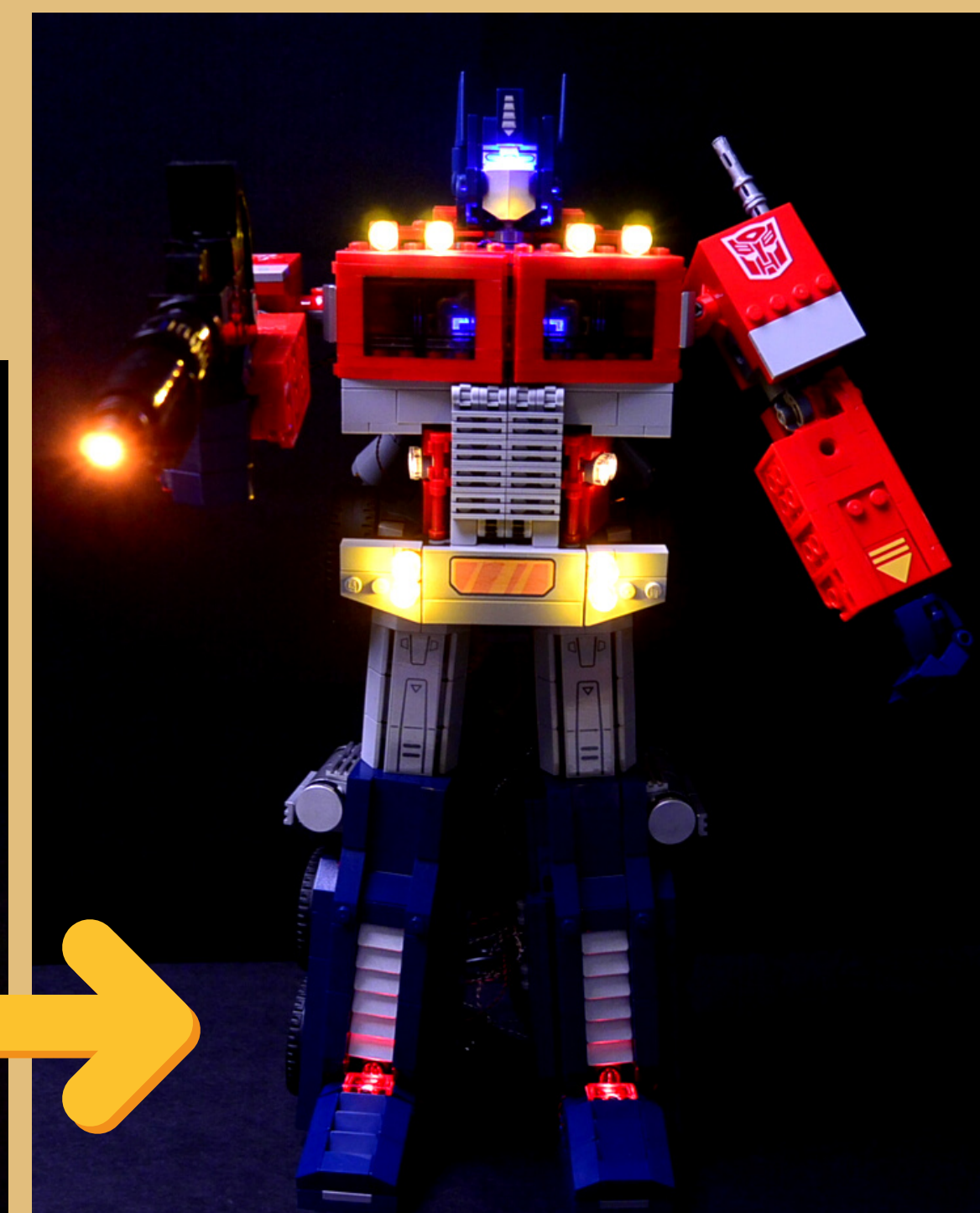
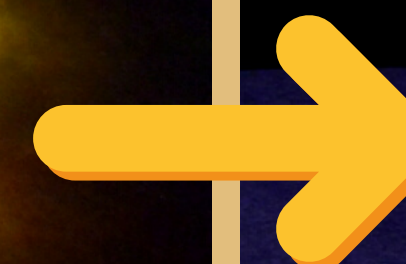






# INSTRUCTIONS

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We will answer as soon as possible.

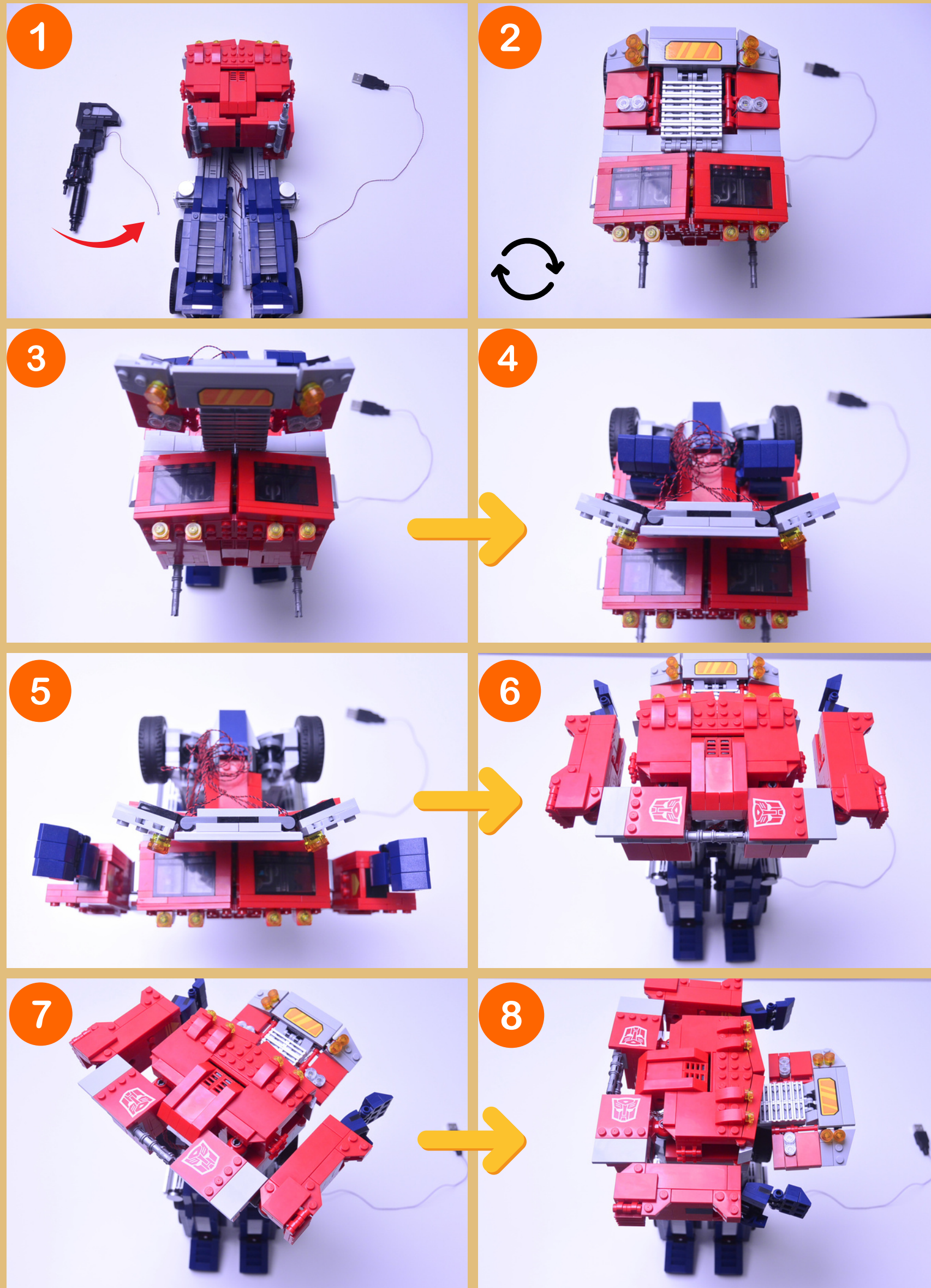




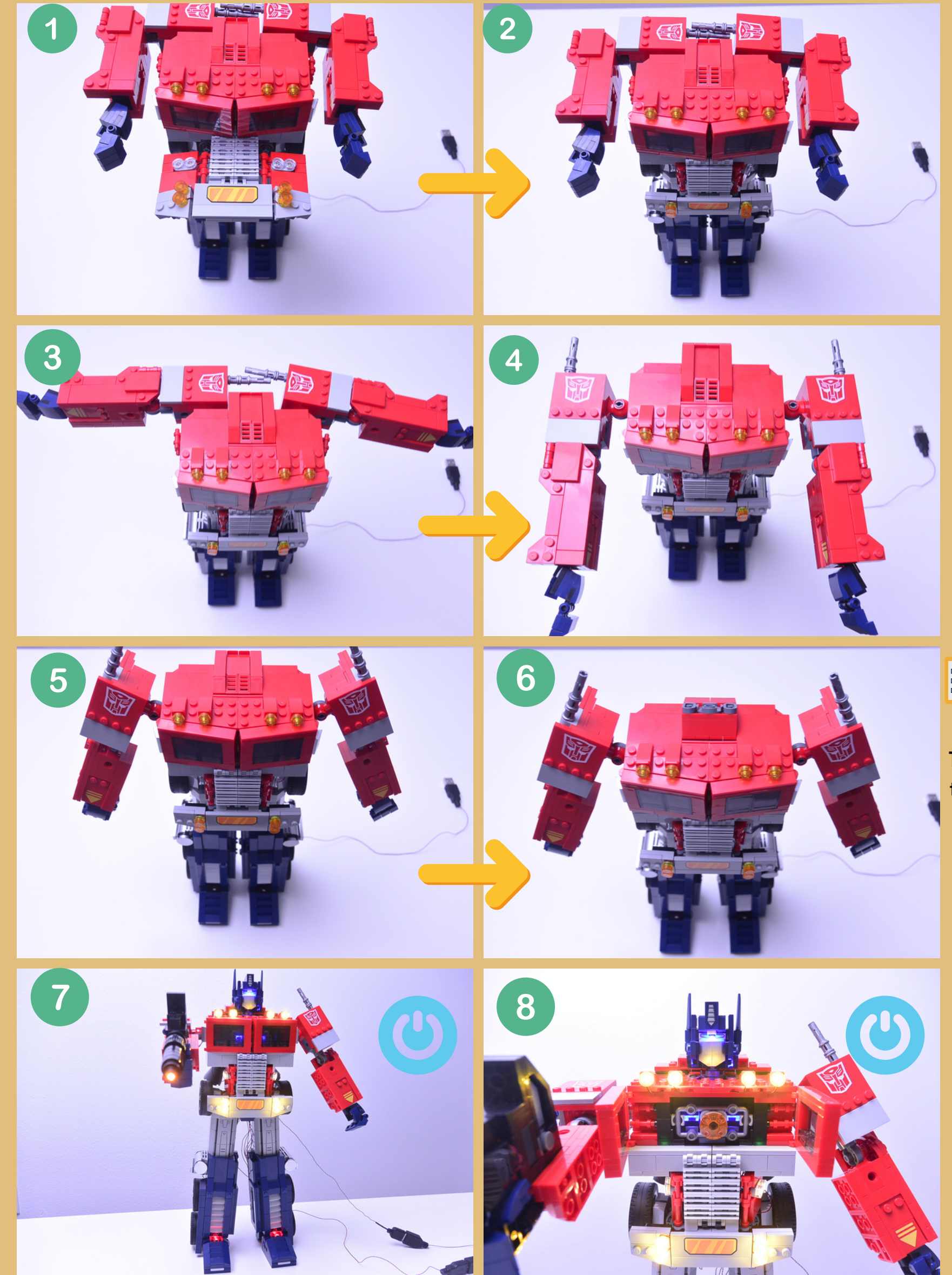
1



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Turn the whole body form right to left, please be careful on the wire, so they don't became knot



Repeat 14-4-5 for the insert of the head

## LEGEND



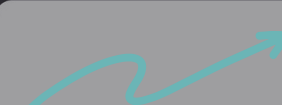
DISCONNECT



CONNECT  
RECONNECT



TURN / FLIP



DIRECTIONAL



TWIST / BRAID



POWER ON TEST

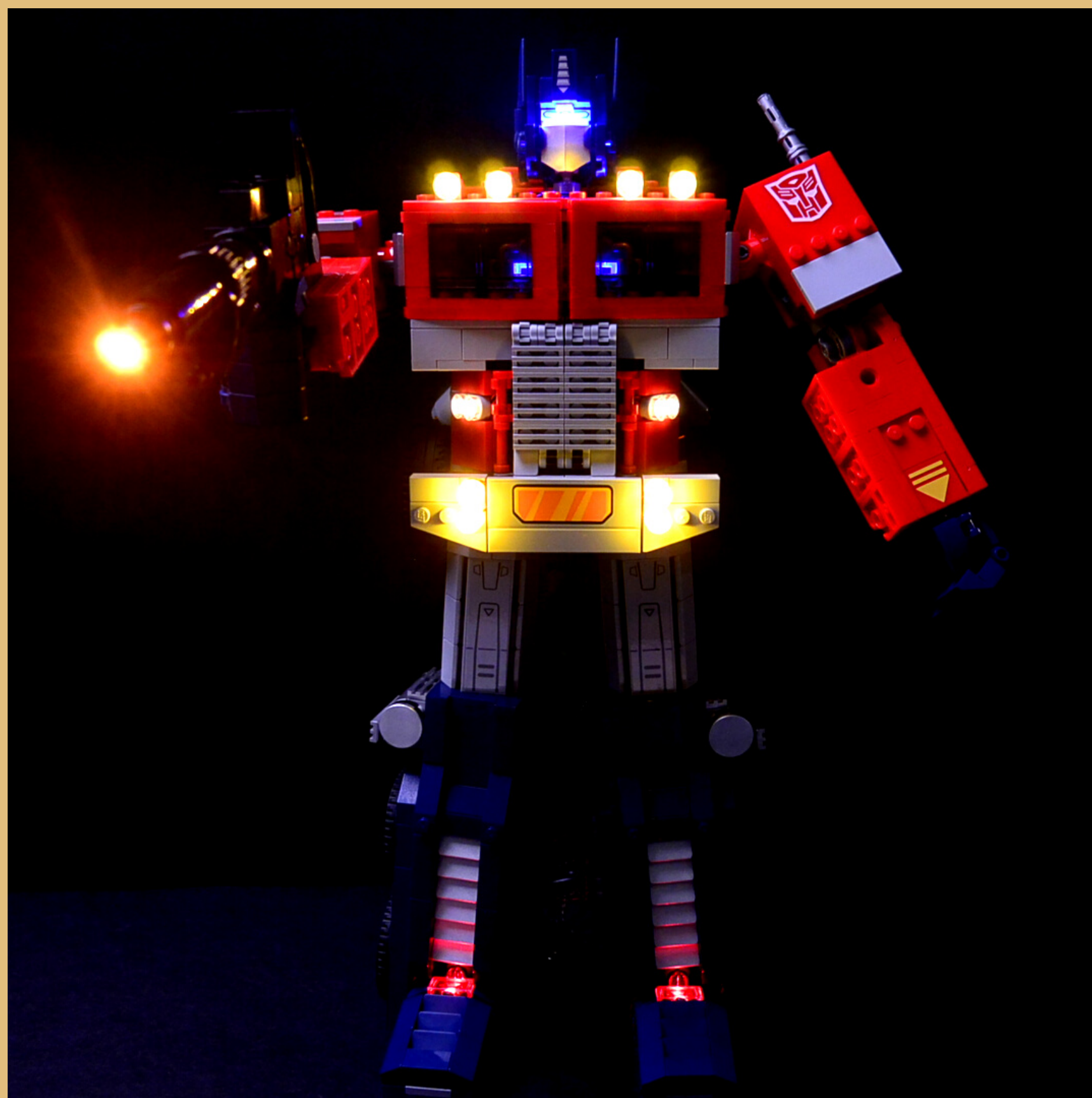


NOTE ICON

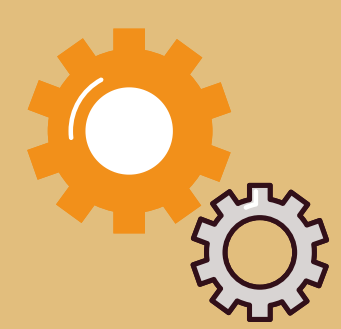


# FINAL PRODUCT

This finally completes installation of the OPTIMUS PRIME #10302 LIGHT KIT INSTALLATION GUIDE.







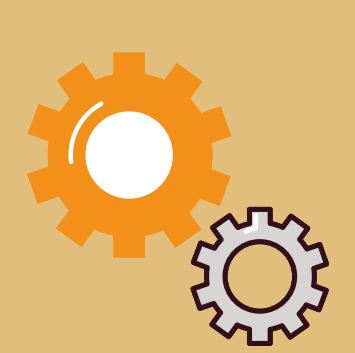
# TROUBLESHOOTING

Rego Design Lighting kits contain individual components that are very tiny and can be easily damaged if not handled correctly.

To prevent unnecessary damage to components, we highly recommend for you to check the User Guide section, “Important things to note” and read carefully. When you follow the procedures in the User Guide that will help you prevent from all faults and damages to your Rego Design lighting kit components.

If you only experiencing issues with your Rego Light set, you can just read what's underneath for a list of common causes to help you troubleshoot. If you have extra question, check out User Guide or send a quick email at [support@regodesign.us](mailto:support@regodesign.us)





# TROUBLESHOOTING

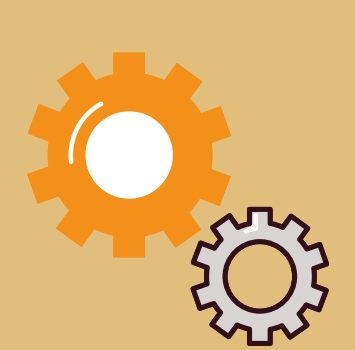
## Check Your Wires

In order for Rego components to fit in between and underneath LEGO® bricks, the components need to be very tiny. Due to this fact, Rego Design components can be easily damaged when not handled correctly.

Please be careful when removing unpacked components out of the packaging and please ensure not to forcibly pull 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 function correctly. When connecting lights to your LEGO® set, please 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 will cause a crosswire and the lights to not function correctly.





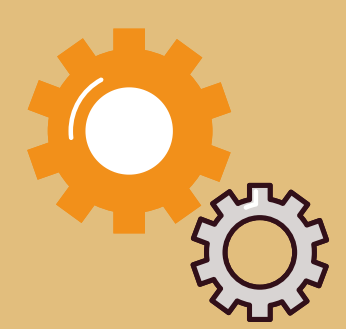
# TROUBLESHOOTING

## 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.

First, please 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, please check to see if the batteries have been inserted correctly into the battery pack.





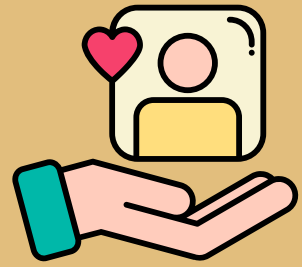
# TROUBLESHOOTING

## 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. It should be an easy installation, so if not turn it over. PLEASE DO NOT FORCE IT.

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.





## CONTACT US

If you have an enquiry regarding the online shop, our products or a general enquiry or other simple question, please refer to our Frequently Asked Questions webpage here at [www.regodesign.net](http://www.regodesign.net). Alternatively, you can contact our Customer Services team by email a mail here at:

[support.regodesign.us](mailto:support.regodesign.us)

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





[www.regodesign.net](http://www.regodesign.net)