

# Light My Bricks: LEGO Star Wars Yoda 75255 Lighting Kit

Admin On February 3, 2020



The following page is the instructions for the **Light My Bricks LEGO Star Wars Yoda (75255) LED light kit**.

If you run into any issues, please refer to the **online troubleshooting guide**.

To ensure a trouble-free installation of your light kit, please read and follow each step carefully. These instructions can be downloaded in PDF format [here](#)

*Please note: This page lists instructions for the LED light kit only. If you are wishing to purchase the Light My Bricks LEGO Star Wars Yoda (75255) LED light kit, please click [here](#) to view the product page*

# Package Contents:

- 2x LED Light Bar 12cm (76 LEDs)
- 1x Light My Bricks Lightsaber – Green
- 1x Pulse Effects Board
- 2x 6-Port Expansion Board
- 2x 5cm Connecting Cables
- 1x 15cm Connecting Cables
- 1x USB Power Cable
- 1x RGB Control Board and Remote Control
- 3x RGB Strip Lights
- 3x RGB Connecting Cable 15cm

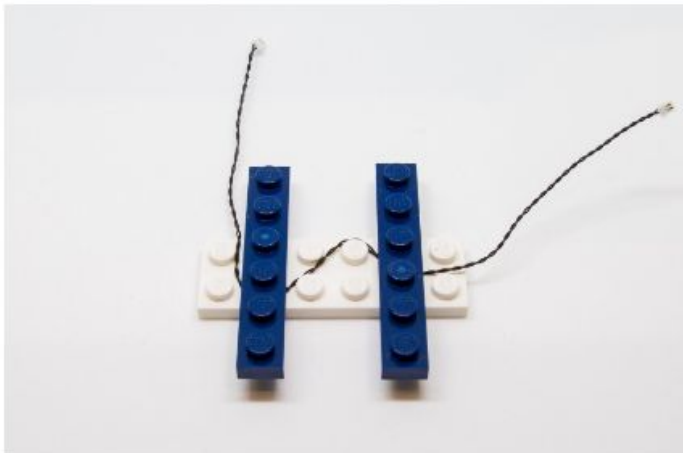
# LEGO Pieces:

- 1x Bar 3L (any colour)
  - 3x Black Plate 1×6
  - 3x Black Plate 1×2 modified w Handle on End
  - 3x Black Tile 1×1 w Clip
  - 2x Black Dish Inverted 3×3
-

# Important things to note:

## Laying cables in between and underneath bricks

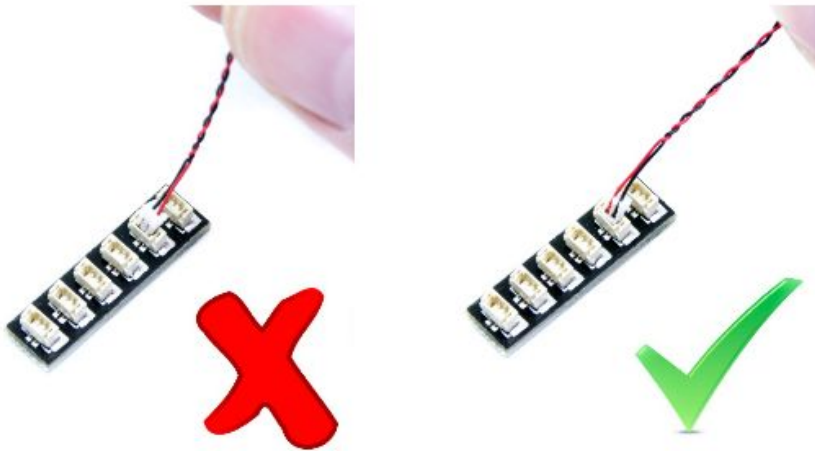
Cables can fit in between and underneath LEGO® bricks, plates, and tiles providing they are laid correctly between the LEGO® studs. Do NOT forcefully join LEGO® together around cables; instead ensure they are laying comfortably in between each stud.



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

## Connecting cable connectors to Expansion Boards

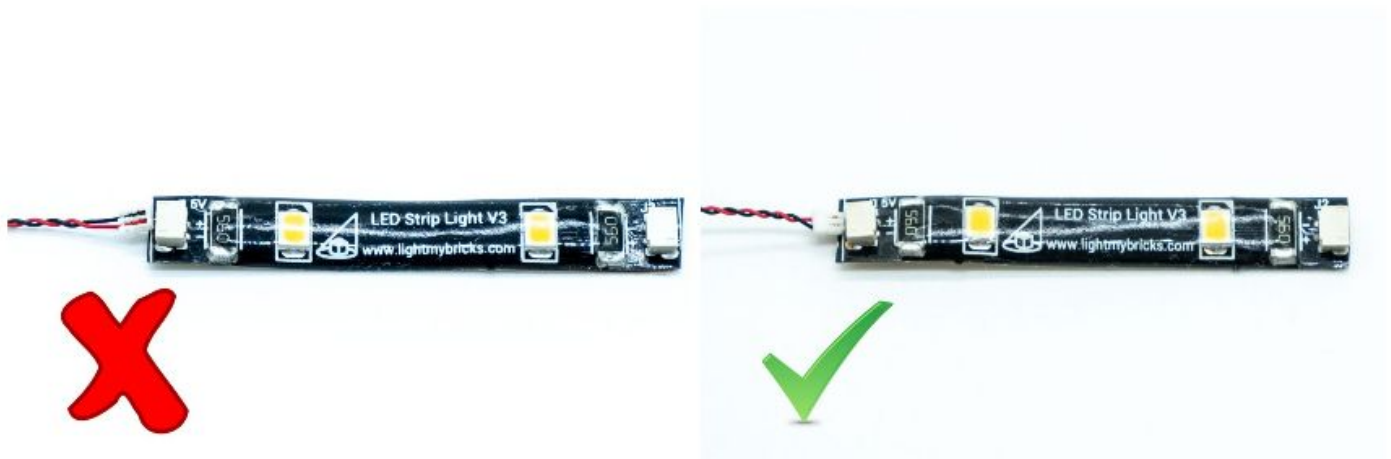
Take extra care when inserting connectors to ports of Expansion Boards. Connectors can be inserted only one way. With the expansion board facing up, look for the soldered "=" symbol on the left side of the port. The connector side with the wires exposed should be facing toward the soldered "=" symbol 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.*

## Connecting cable connectors to Strip Lights

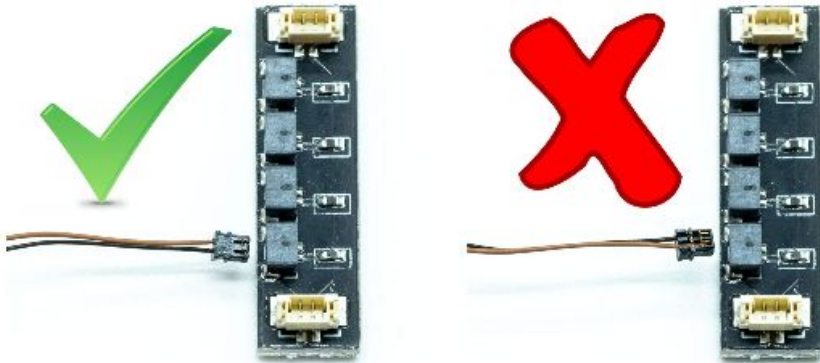
Take extra care when inserting connectors to ports on the Strip Lights. Connectors can be inserted only one way. With the Strip Light facing up, ensure the side of the connector with the wires exposed is facing down. If a plug won't fit easily into a port connector, don't force it. Doing so will damage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



## Connecting Micro Cable connectors to Micro Expansion Board Ports

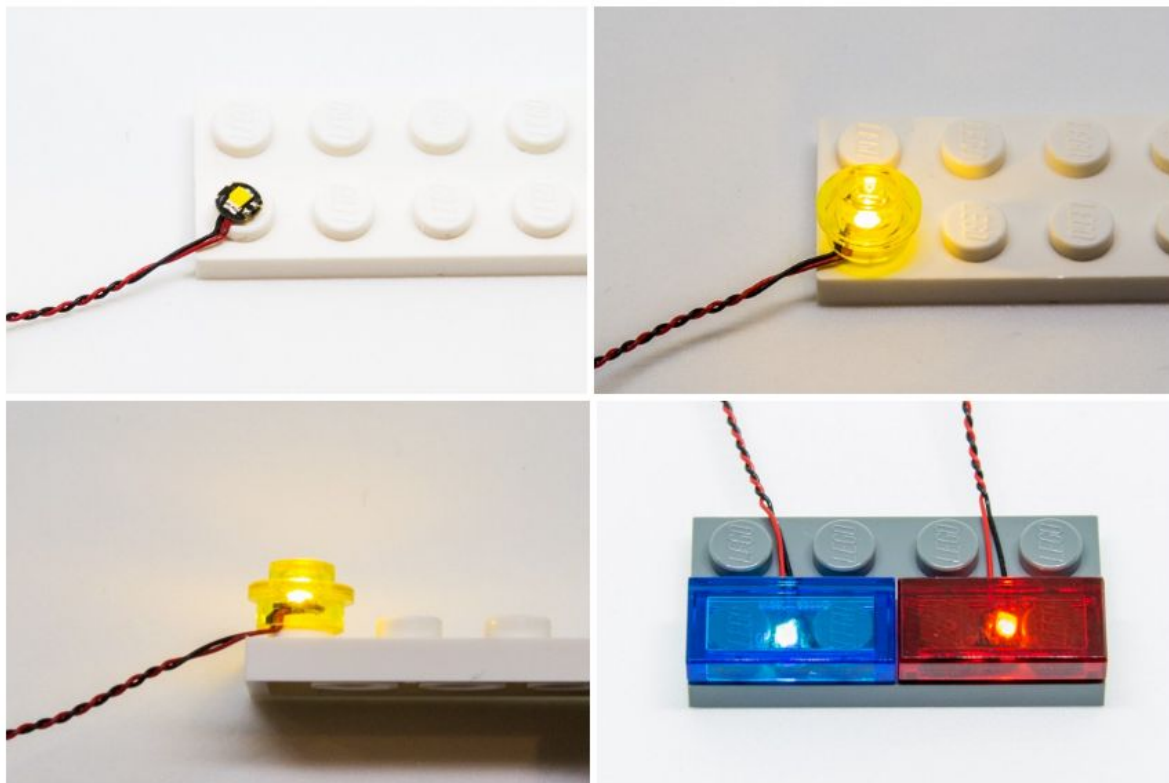
Take extra care when inserting the micro connectors to micro ports of Micro Expansion Boards.

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.



## Installing Bit Lights under LEGO® bricks and plates.

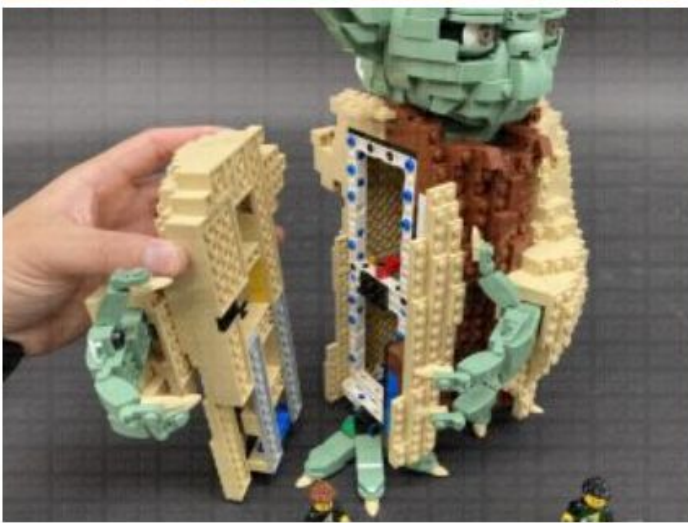
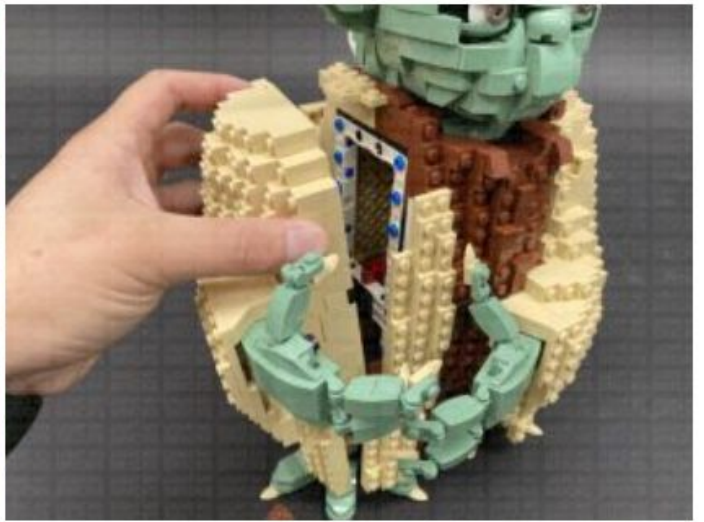
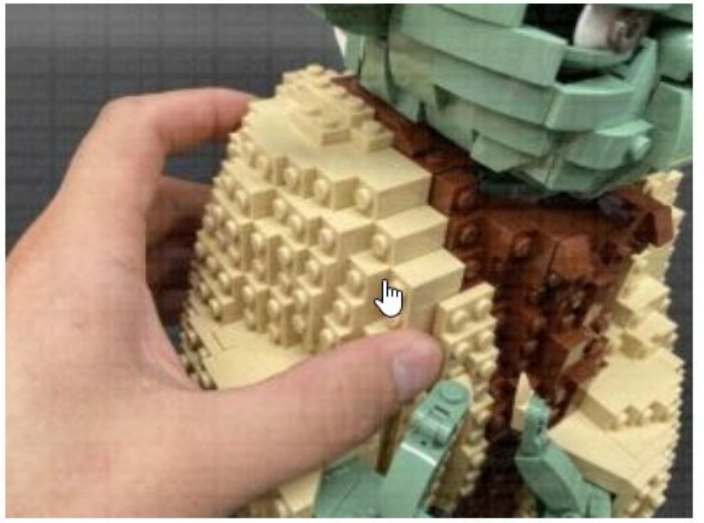
When installing Bit Lights under LEGO® pieces, ensure they are placed the correct way up (Yellow LED component exposed). You can either place them directly on top of LEGO® studs or in between.



**OK, Let's Begin!**

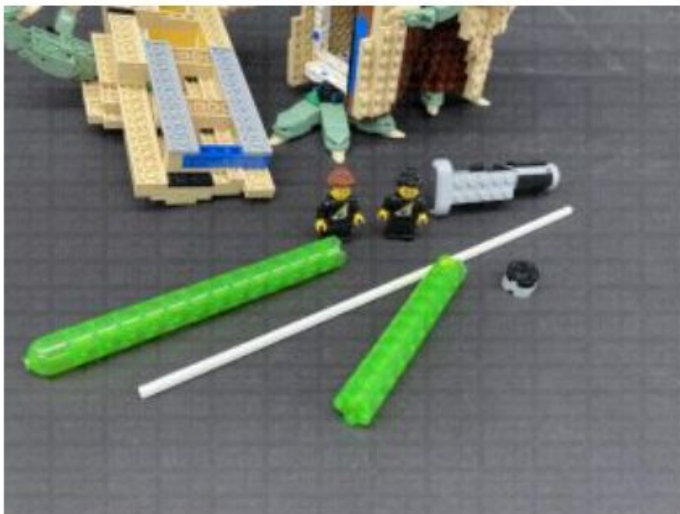
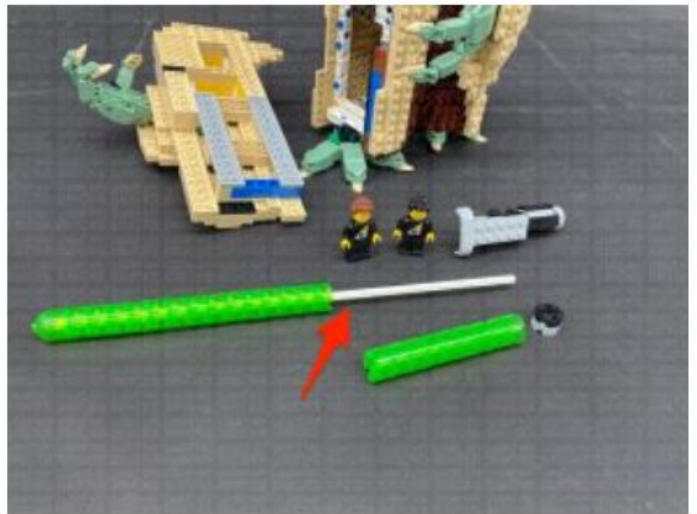
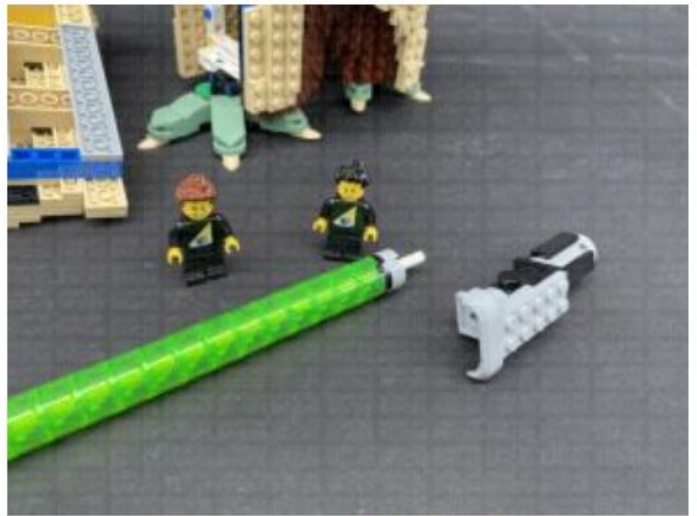
1.) We will first install the LED light bars inside the lightsaber blade. Disconnect the lightsaber from Yoda, then carefully detach the left side section as show below:



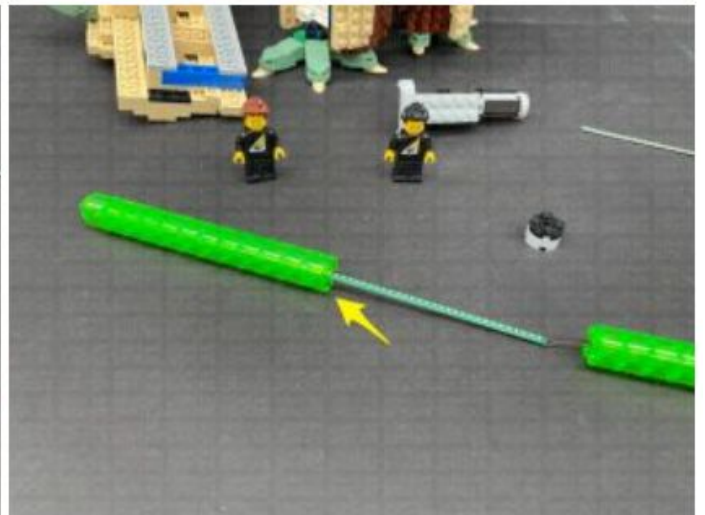
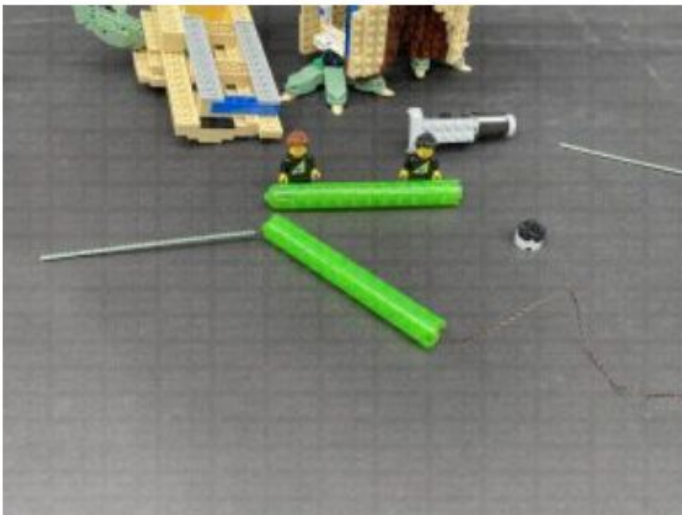
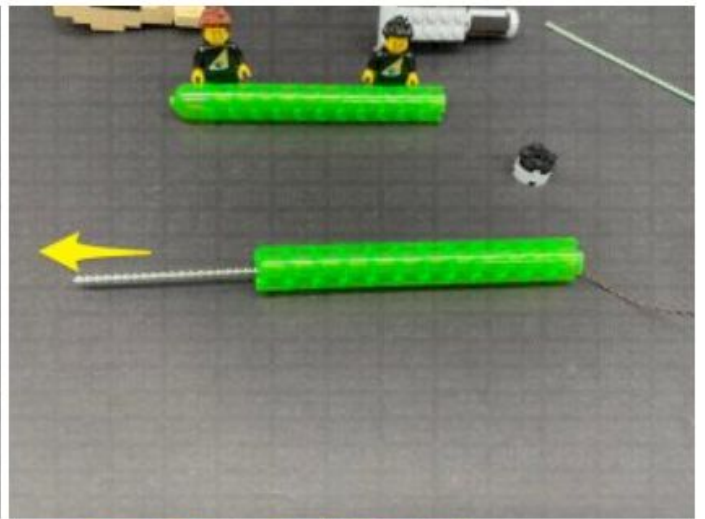
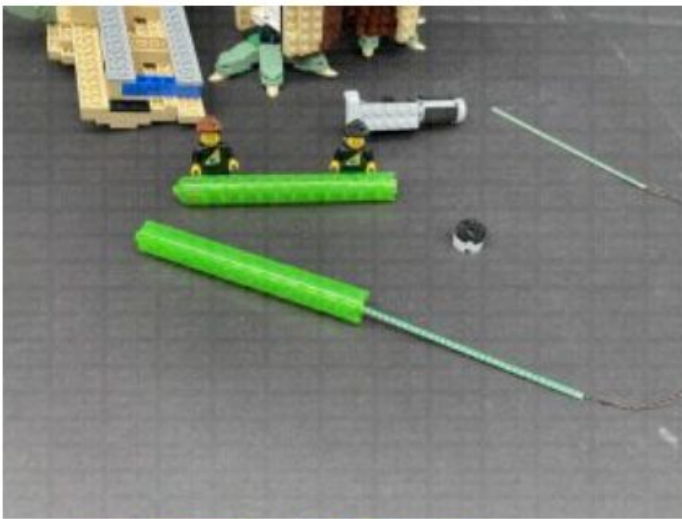
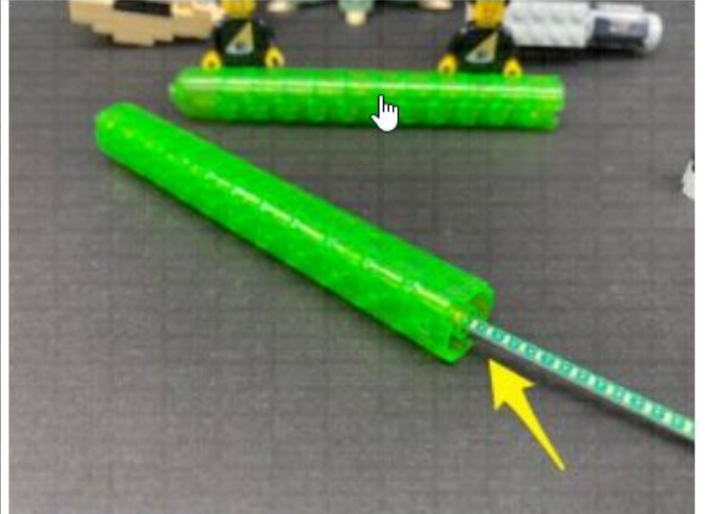
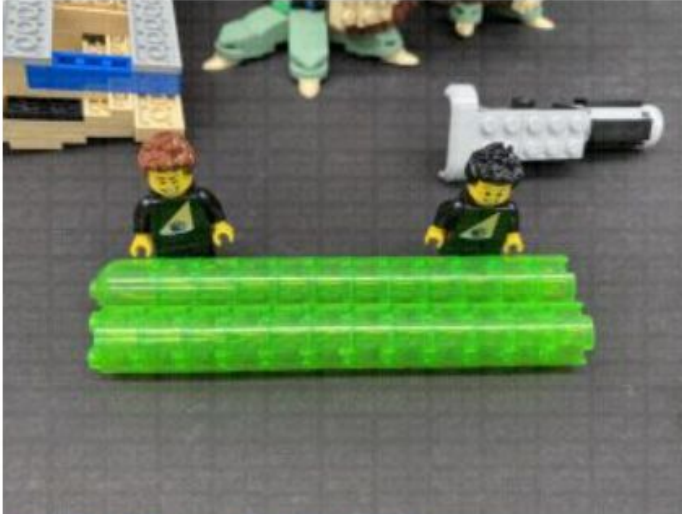


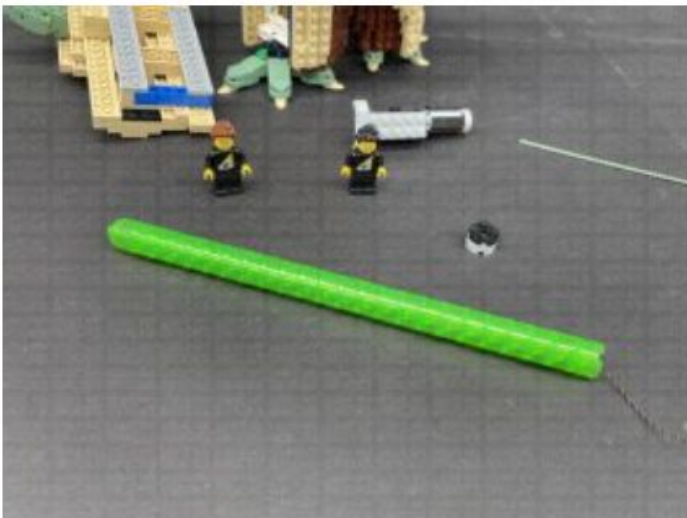
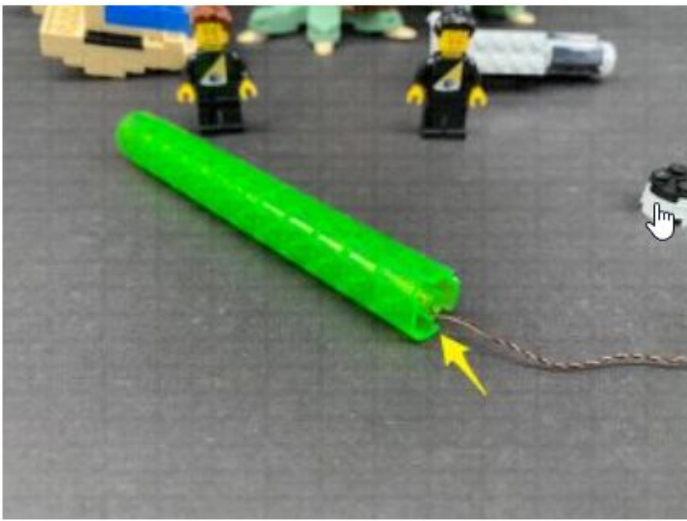


Disassemble the lightsaber, then disconnect half of the trans green round bricks to allow us to fully remove the white technic axle bar.

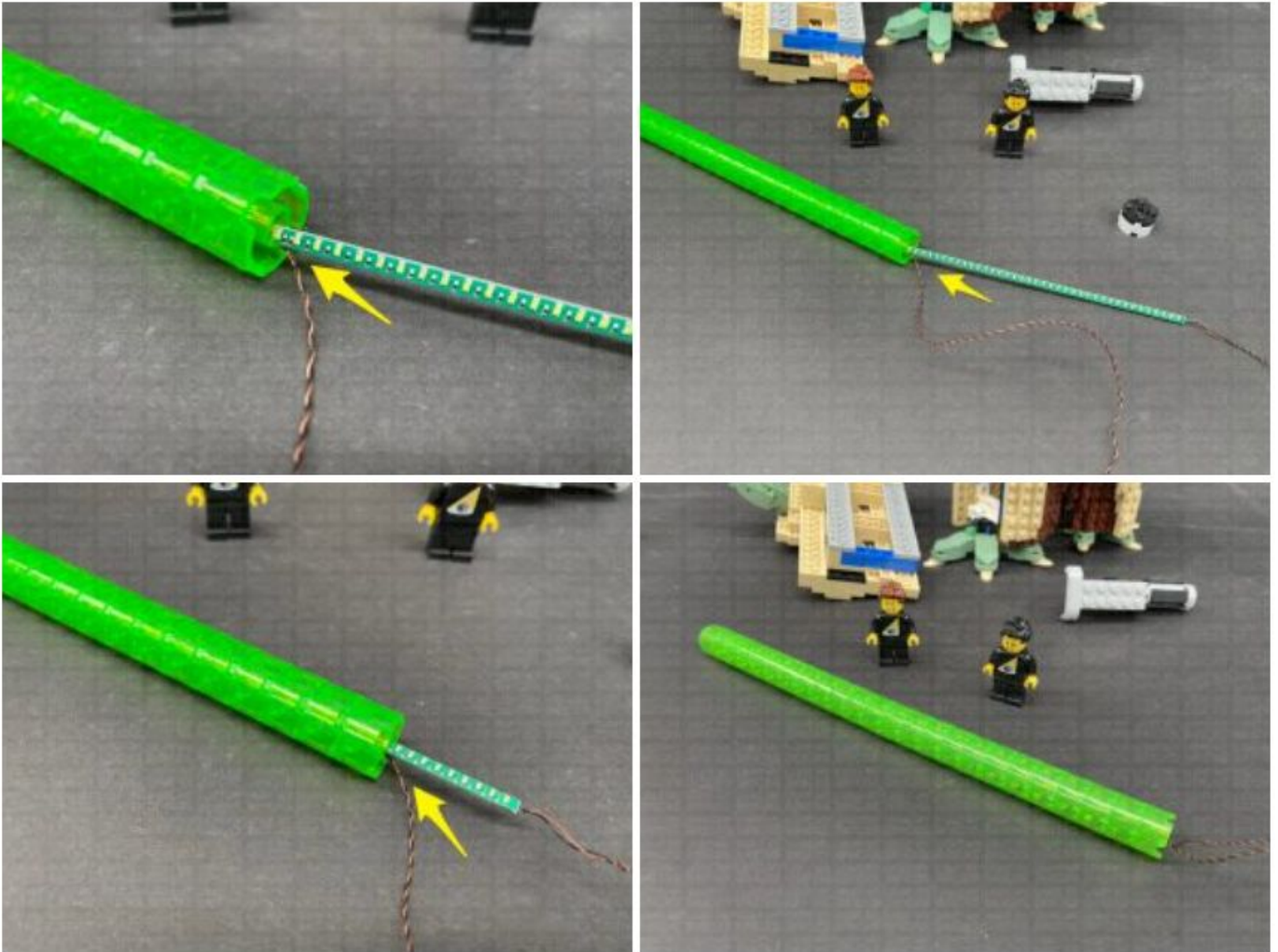


2.) Organise the lightsaber blade into two equally long sections, then take out an **LED Light Bar 12cm**. Thread the top of the bar through the bottom half of the blade (through the technic hole). Thread the bar all the way through, then pull it out from the top. Continue to thread the entire bar through the bottom of the top half of the blade as shown below. Bring the bottom half of the blade up and reconnect it to the top half.

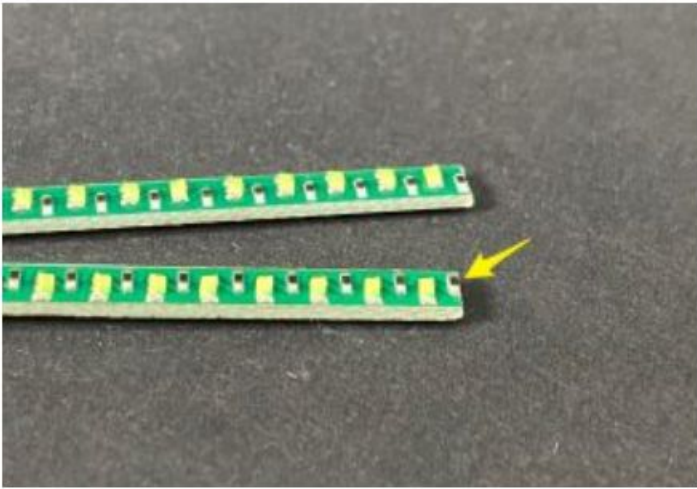
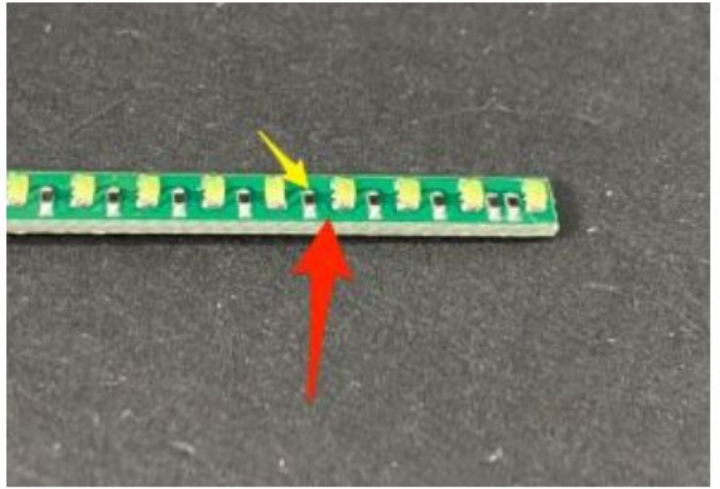
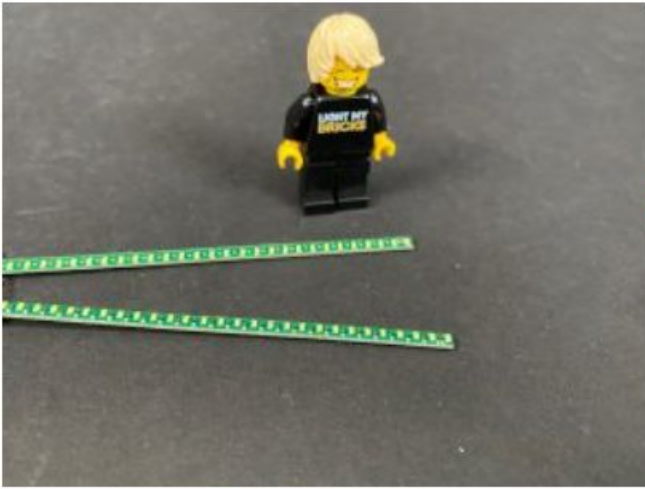




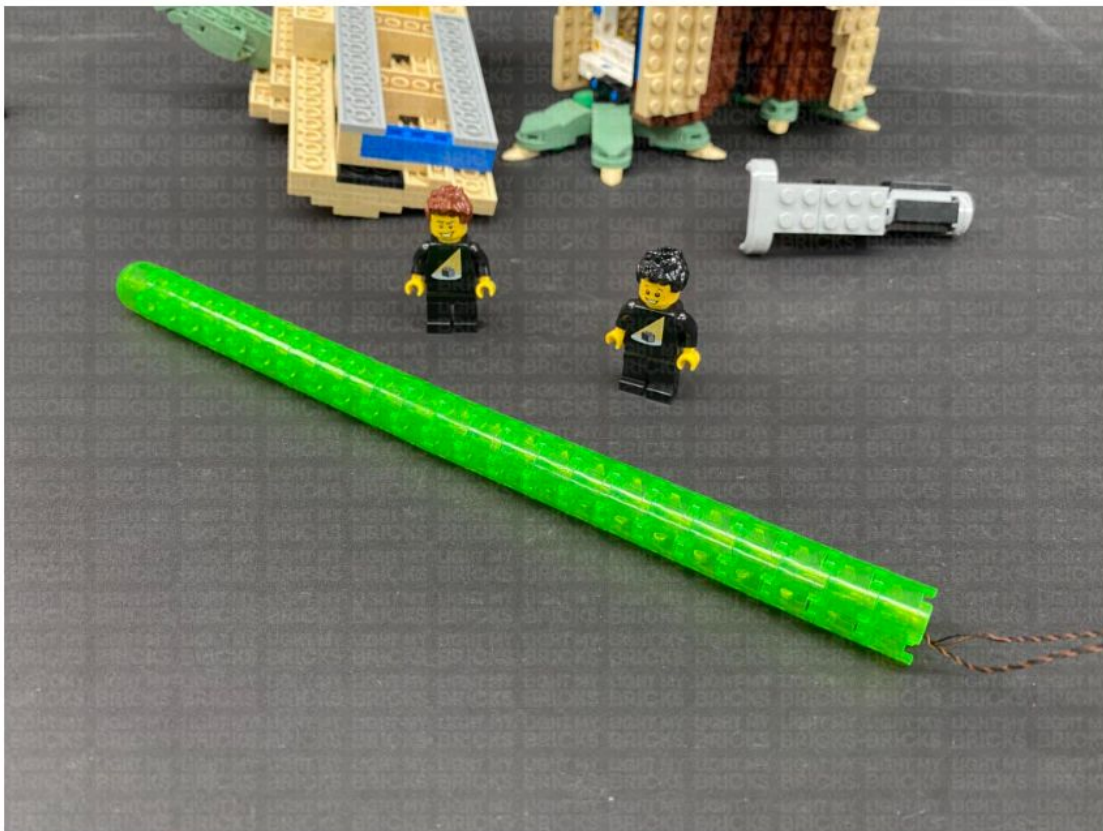
Take the second **LED Light Bar 12cm** and thread the top of the bar all the way through the bottom of the blade until it meets the bottom of the first led light bar. The cable from the first light bar should be kept inside one of the four grooves from the Technic axle.



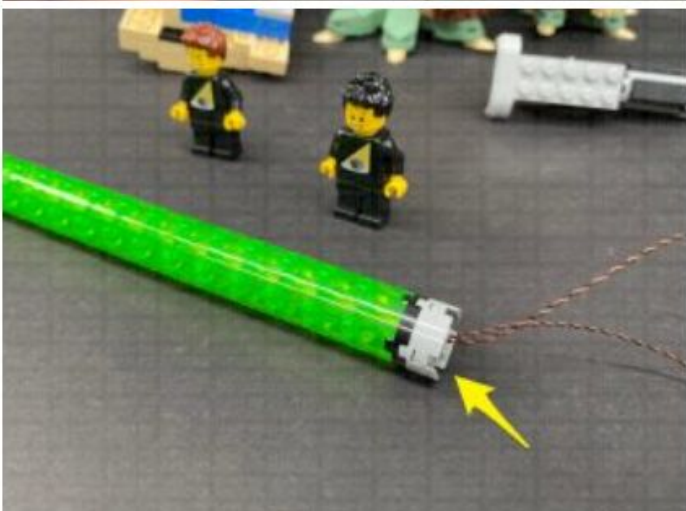
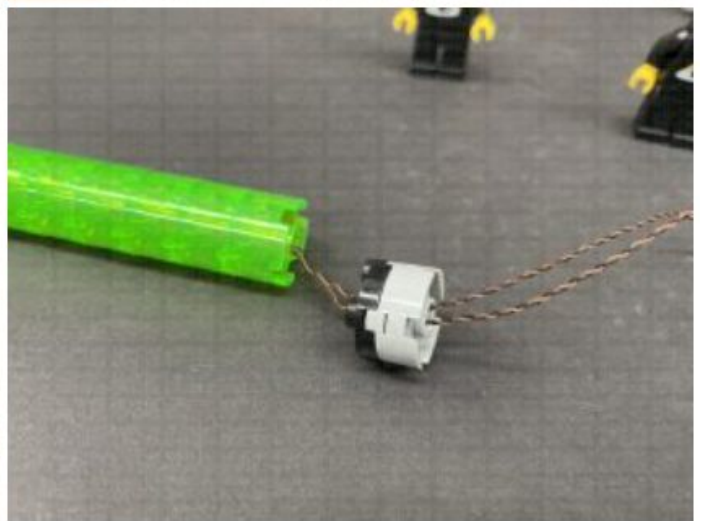
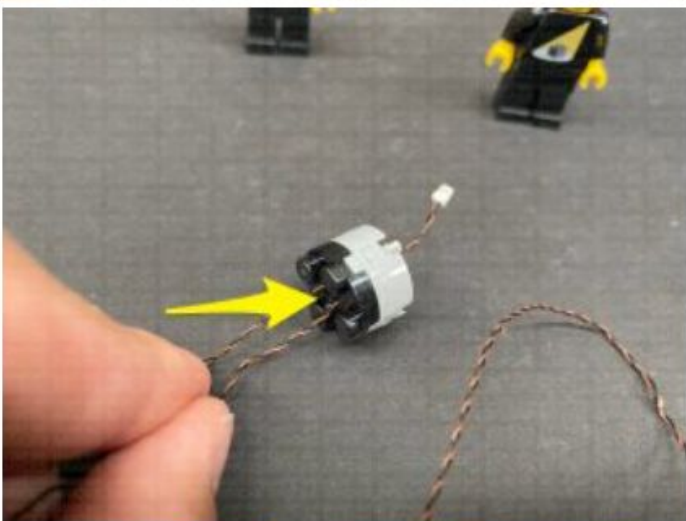
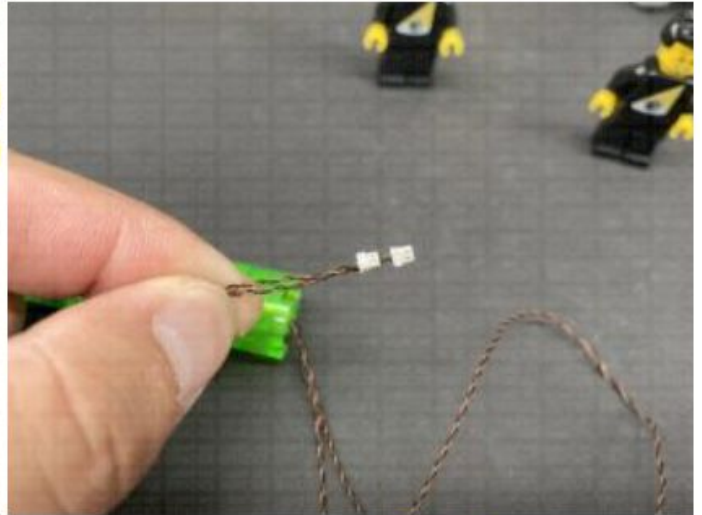
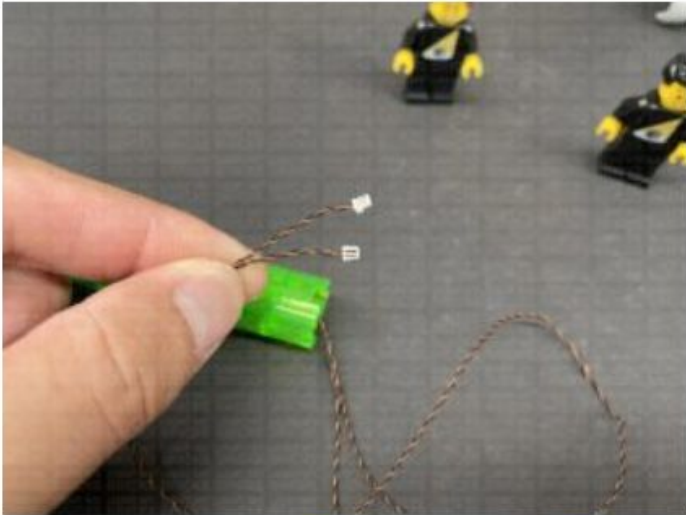
*Note: The two LED Light Bars have been designed to allow you to cut them to size, in case you have a slightly shorter lightsaber blade due to display reasons (less trans bright green bricks in the blade). If you find the LED Bars are too long, simply cut them to size at the top end of the bar (not the cable end). Ensure that you cut the bar in between the LEDs and the cut is above the circuit board resistor. It is completely safe to cut the board.*



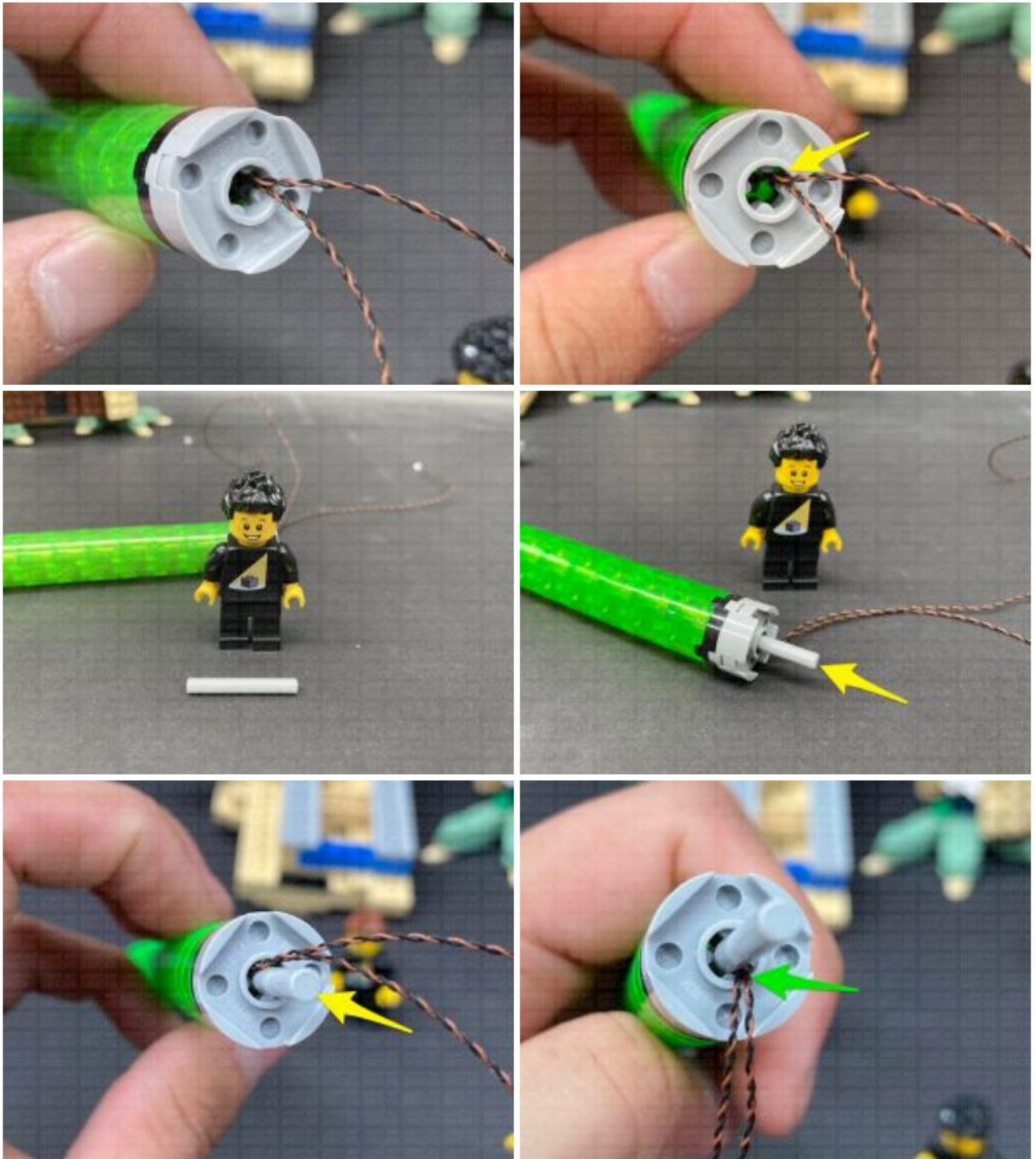
*The bottom of the second LED Bar should end just before the base of the last trans bright green round brick.*



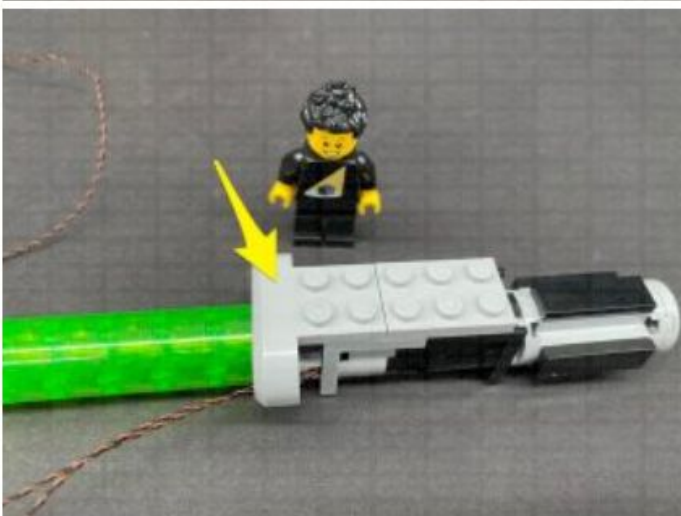
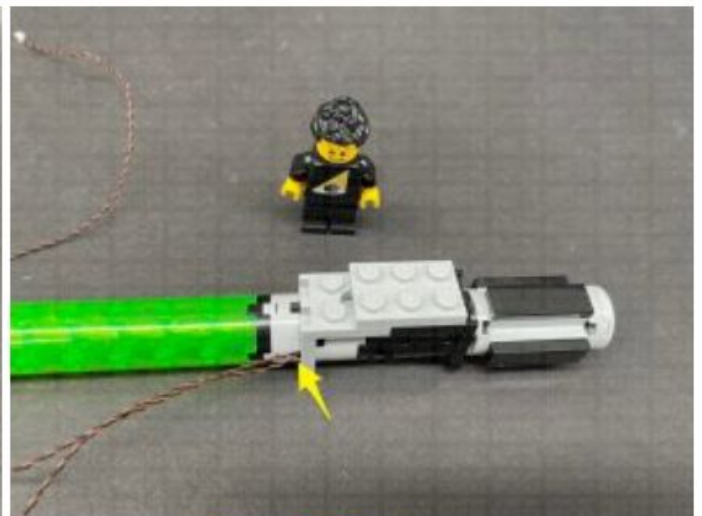
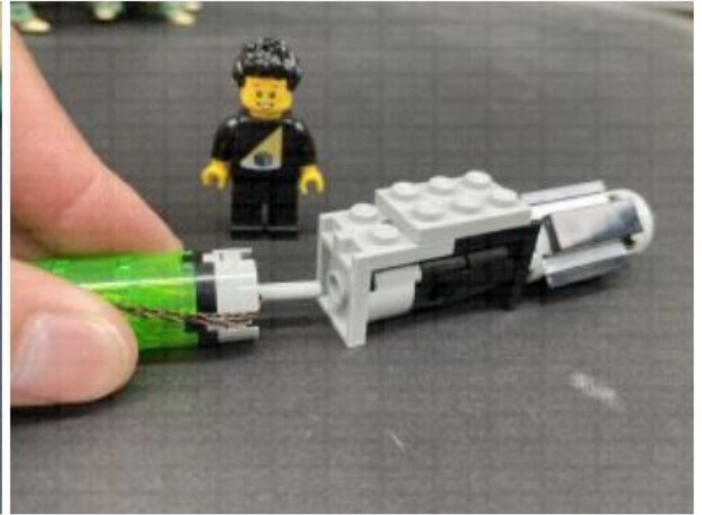
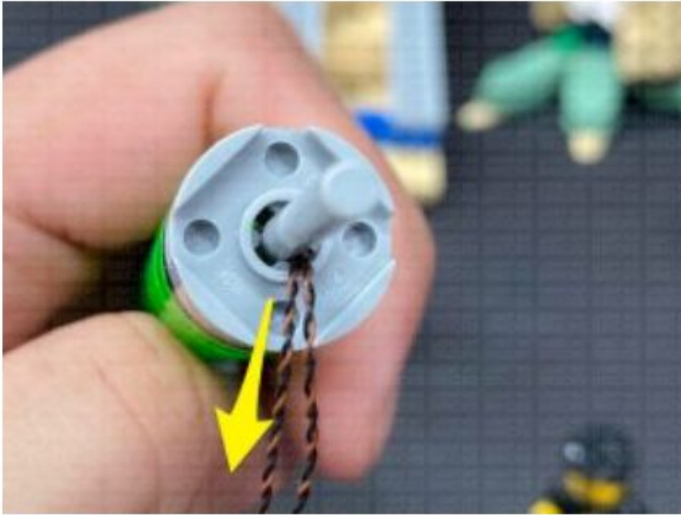
3.) Group the ends of the two light bar cables together and thread them through the top of the three 2x2 round plates. Pull the cables all the way out from underneath the plates, then reconnect them to the bottom of the blade.



Ensure the two cables are laid together inside one of the axle hole grooves, then take the provided **LEGO Bar 3L (any colour)** and connect it to the axle hole. The provided LEGO bar will be used to hold the blade to the handle section. The cables should be secured neatly inside the axle groove as shown below:

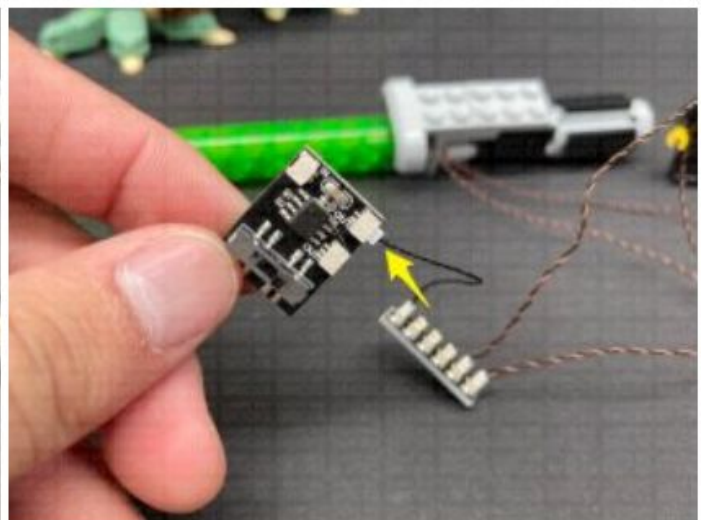
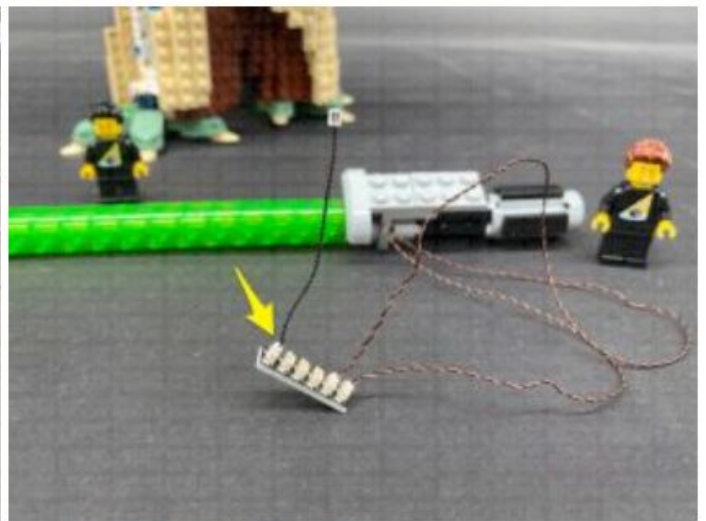
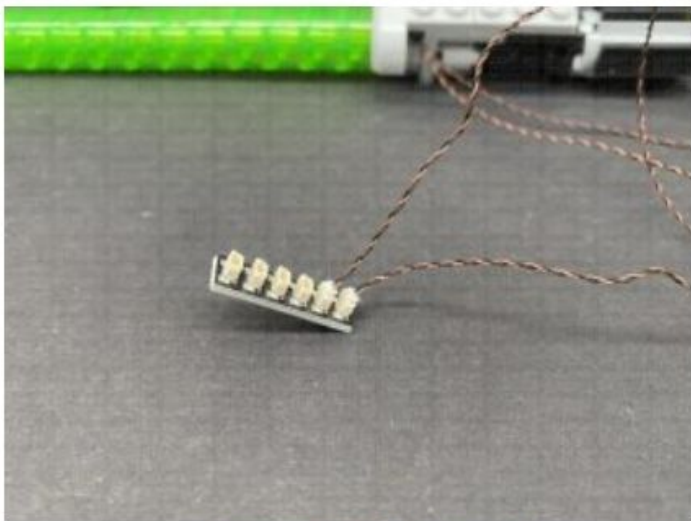
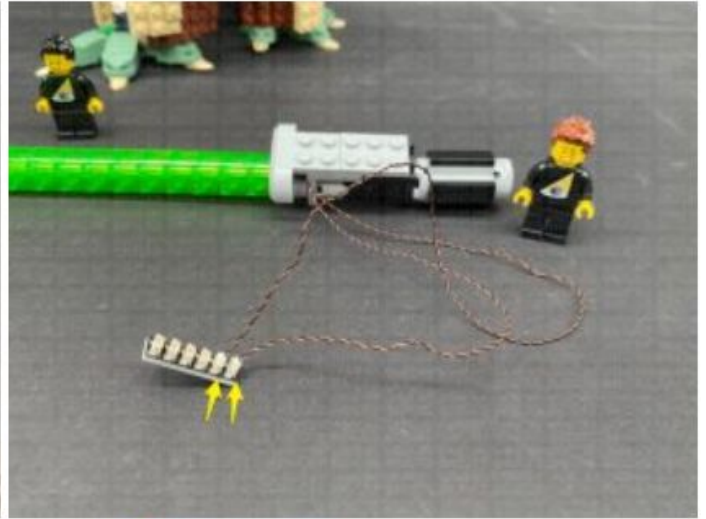


Ensure the two cables are laid through the gap of the bottom of the light grey 2x2 round plate, then reconnect this entire section to the handle section via the provided LEGO bar. Ensure the cables are laid out the opposite side of the lightsaber button, then reconnect the upper part of the handle.

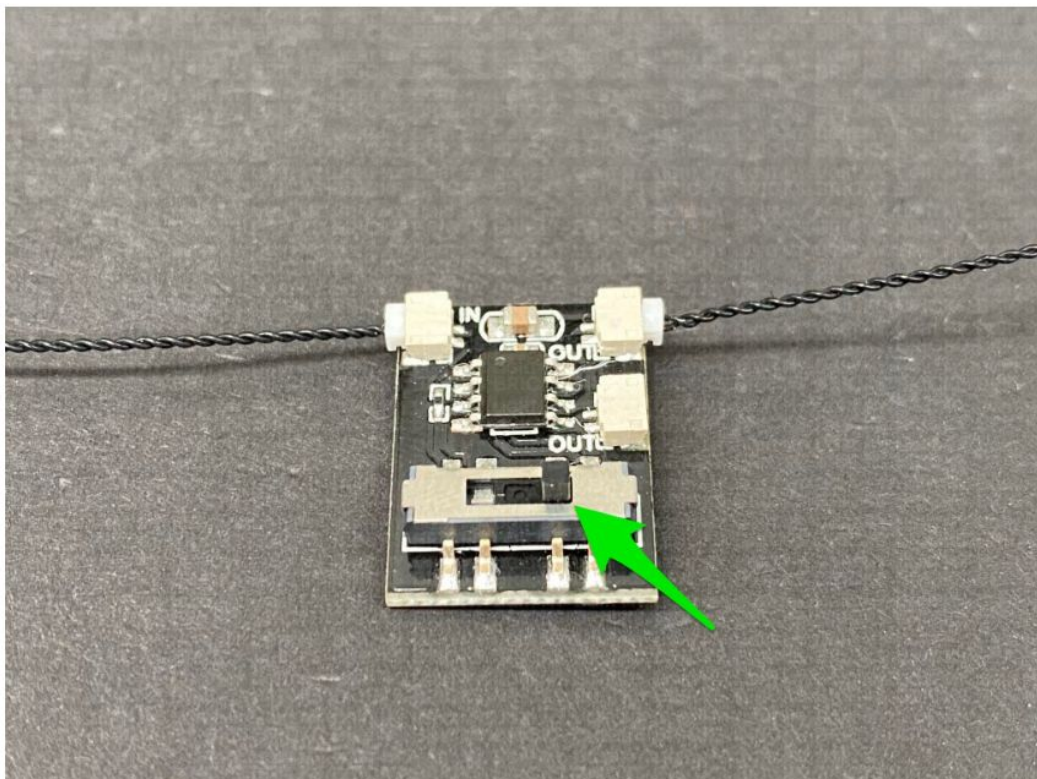
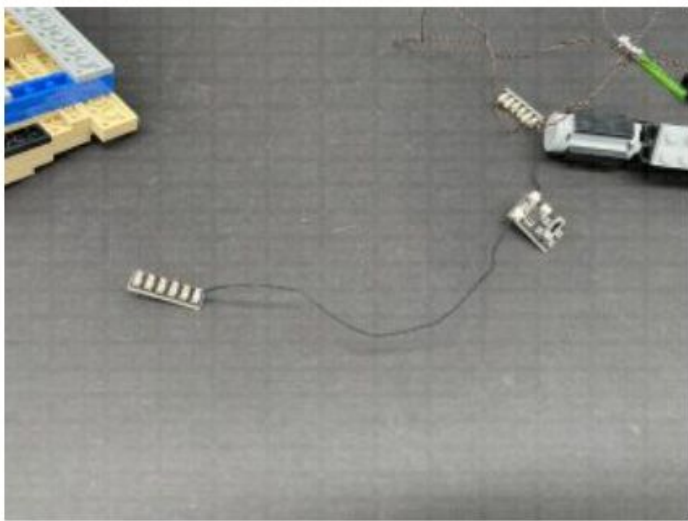
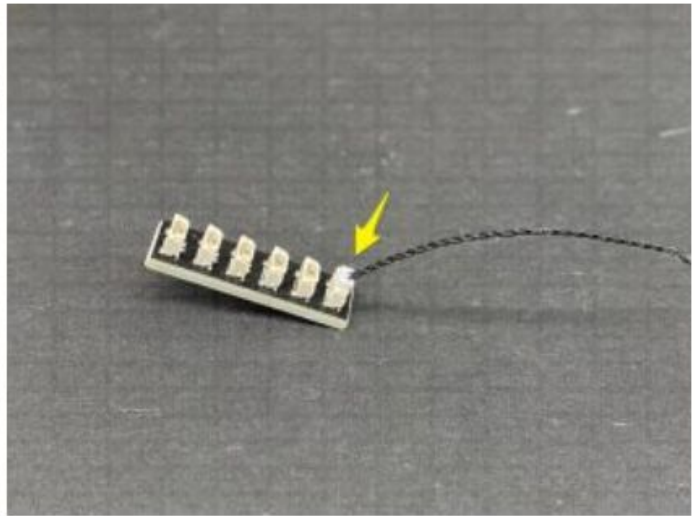
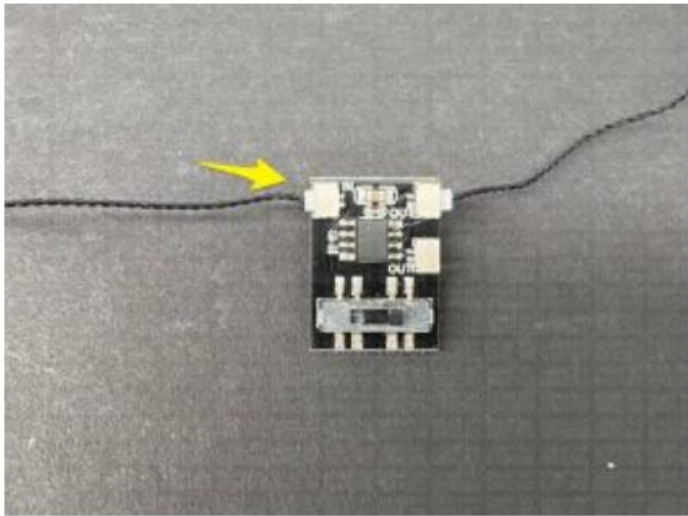


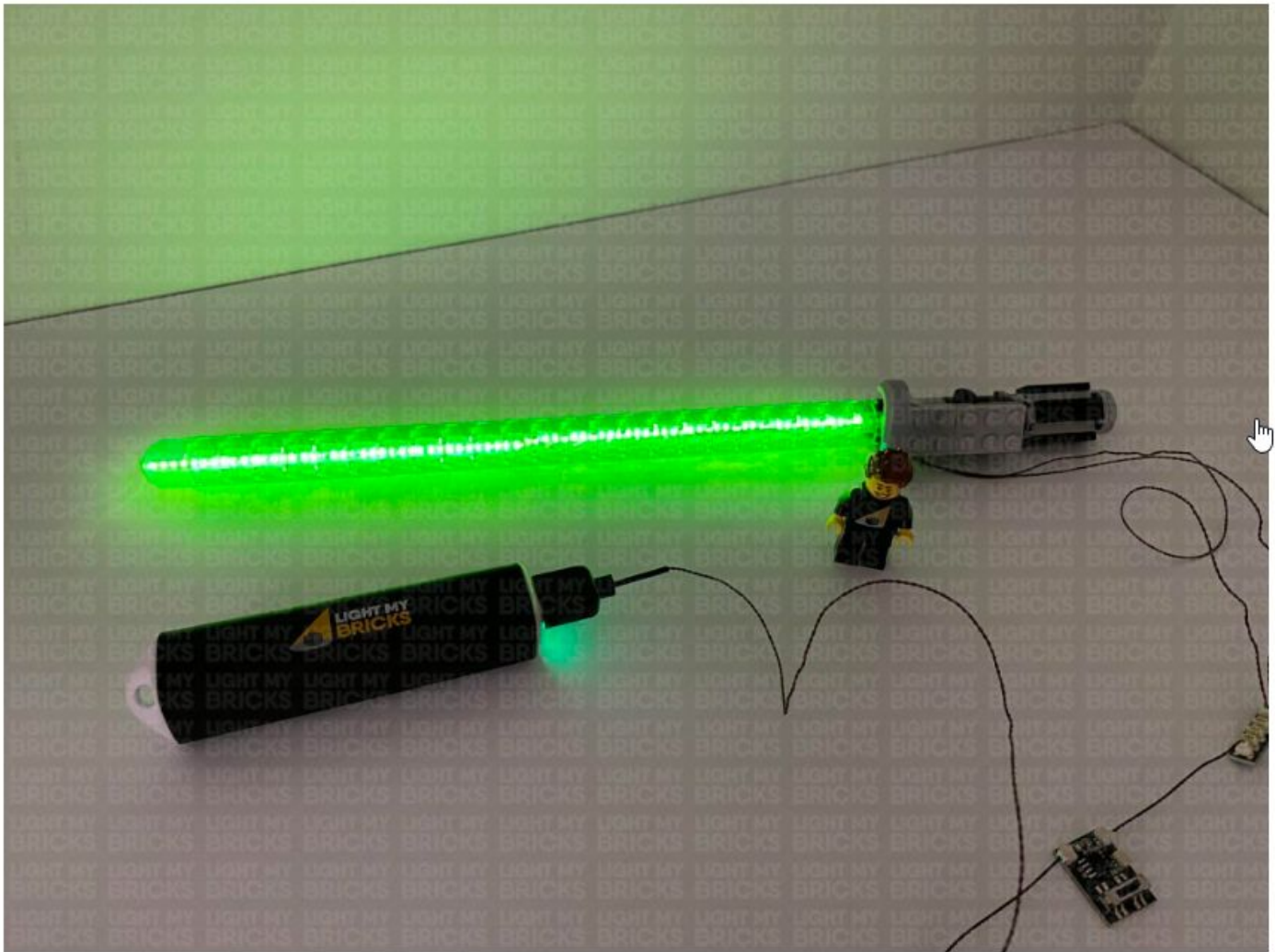


4.) Connect the two LED light bar cables to a **6-Port Expansion Board**. Take a **5cm Connecting Cable** and connect it to the end port on the expansion board, then connect the other end of the cable to one of the **OUT** ports on the **Pulse Effects Board (PFX)**.



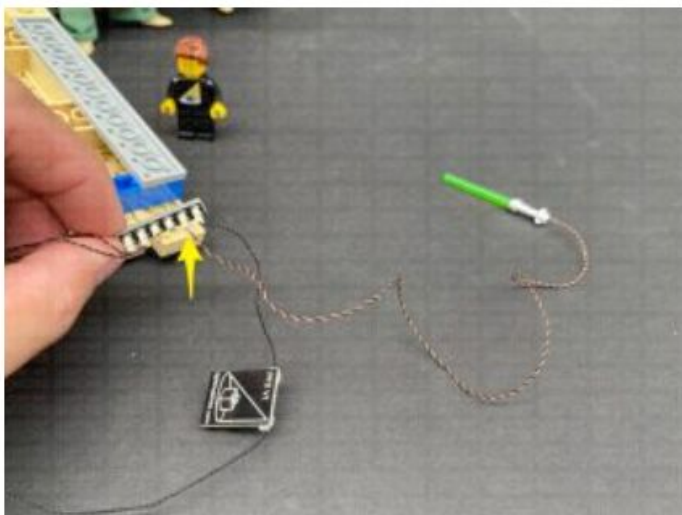
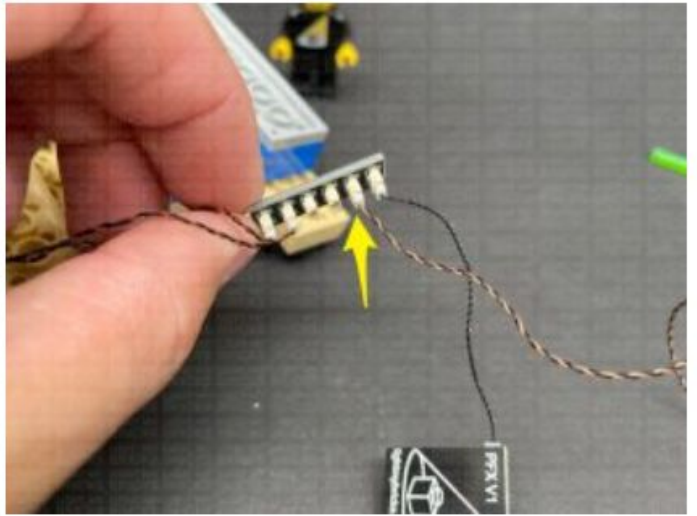
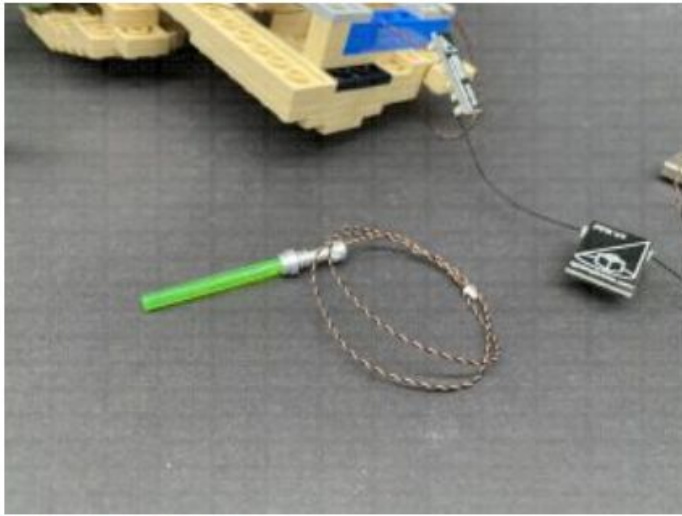
Take a **15cm Connecting Cable** and connect it to the **IN** port on the Pulse Effects Board, then connect the other end of the cable to a new **6-Port Expansion Board**.



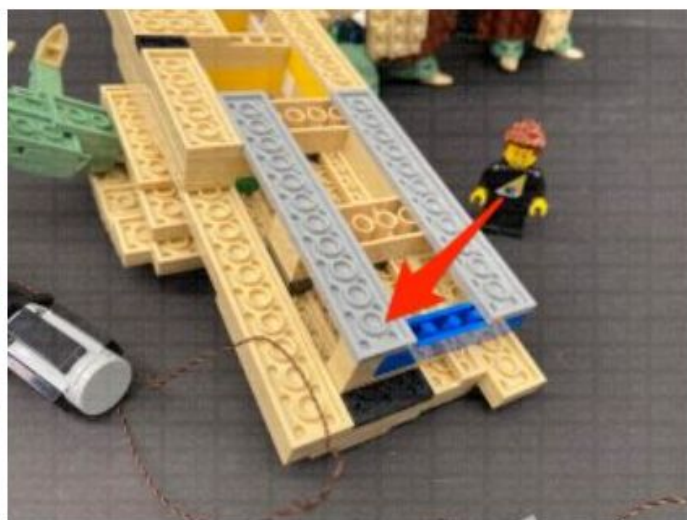


*Note: If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light, expansion board or effects board). To correct any issues with expansion board ports, please view the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

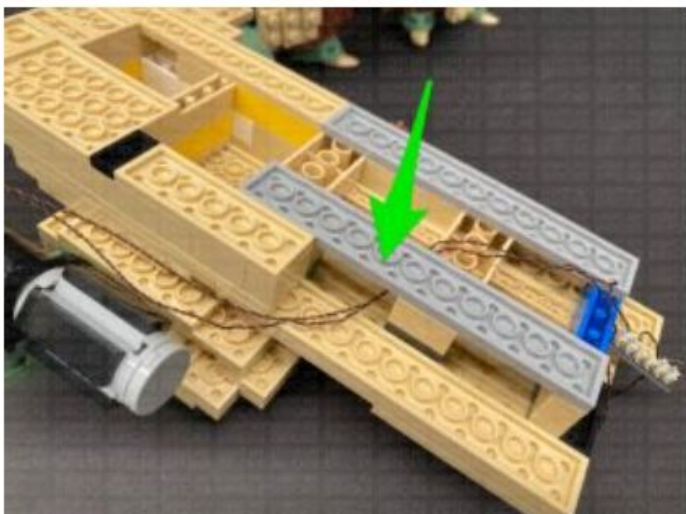
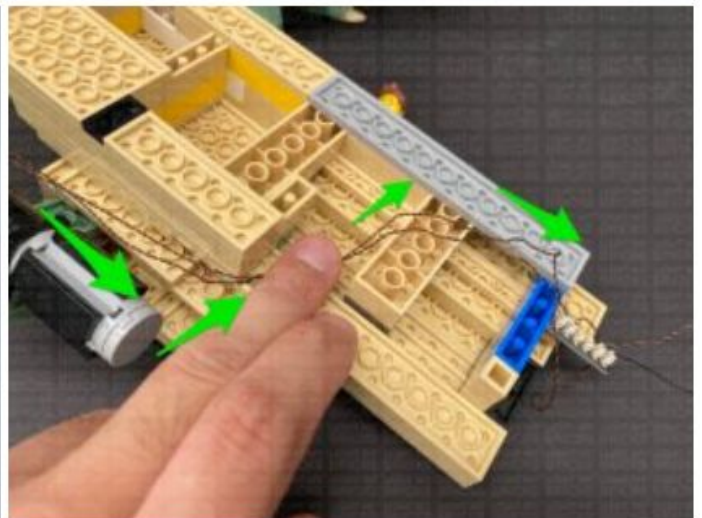
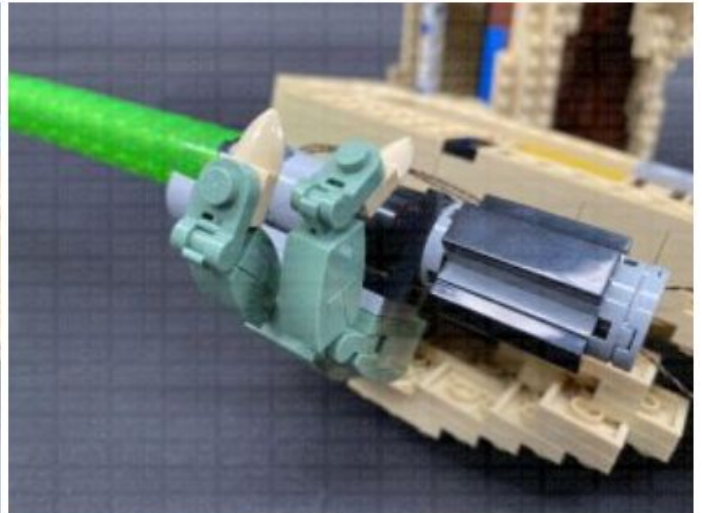
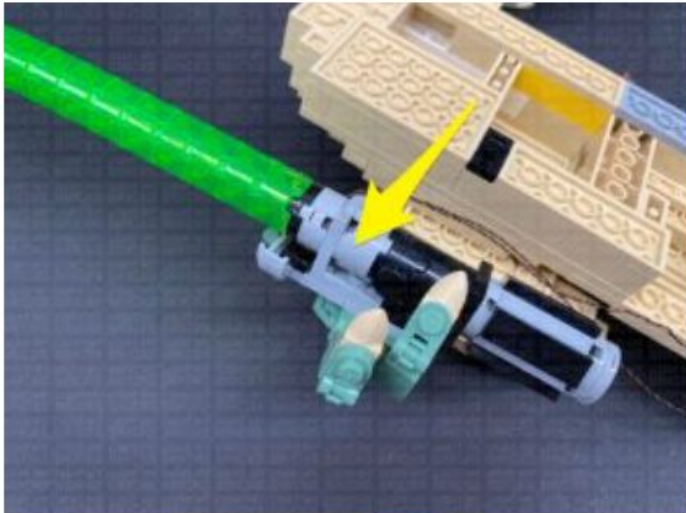
5.) Take out the **Light My Bricks Lightsaber Green** and connect it to a spare port on the first 6-port expansion board (the same board the light bars are connected to).



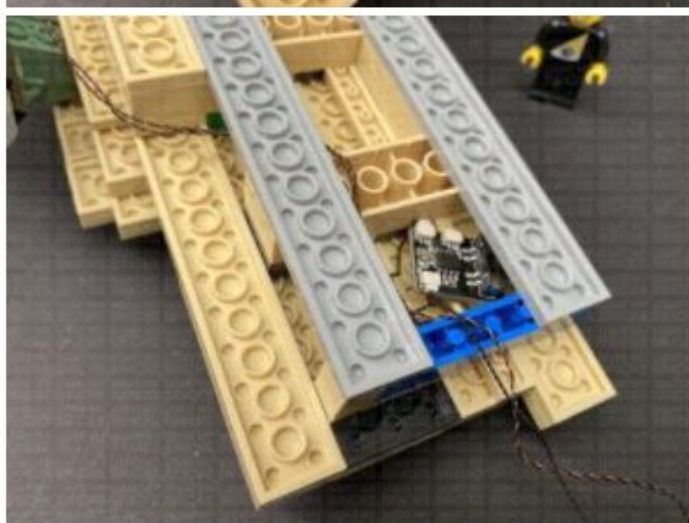
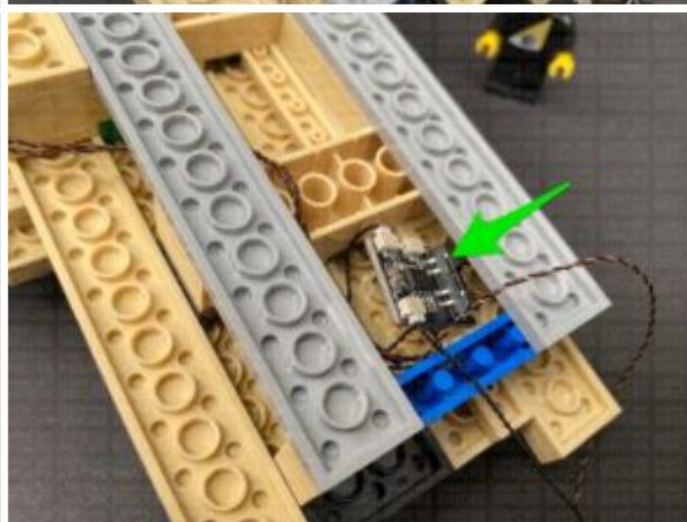
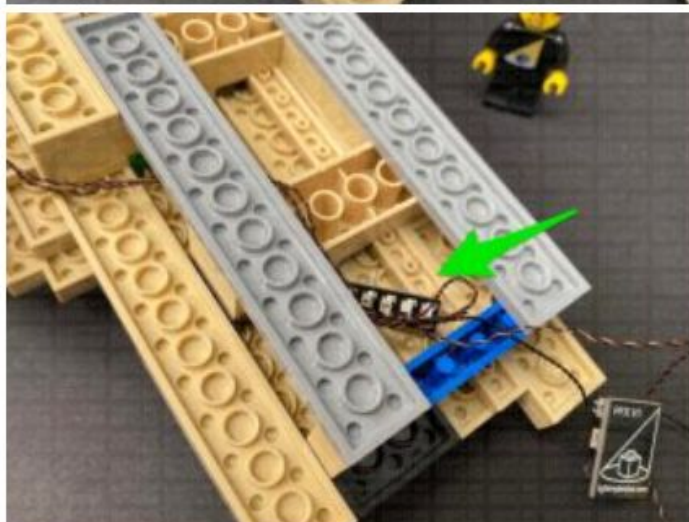
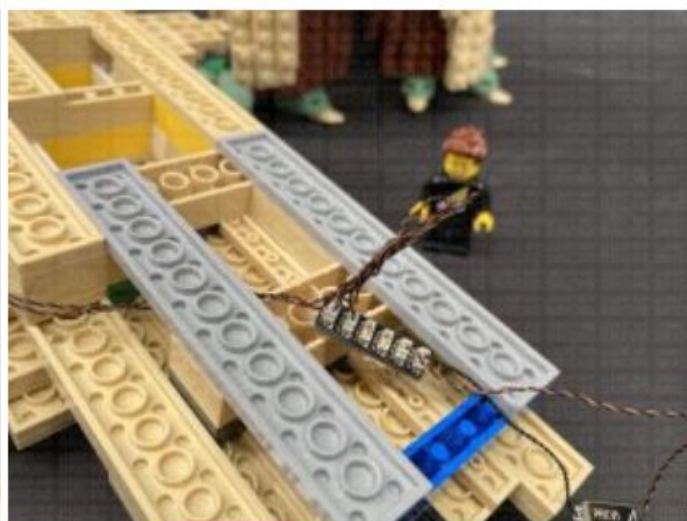
Bring the Yoda left side section we disconnected at the start, then disconnect the following light grey 2x12 plate from the inside of it.



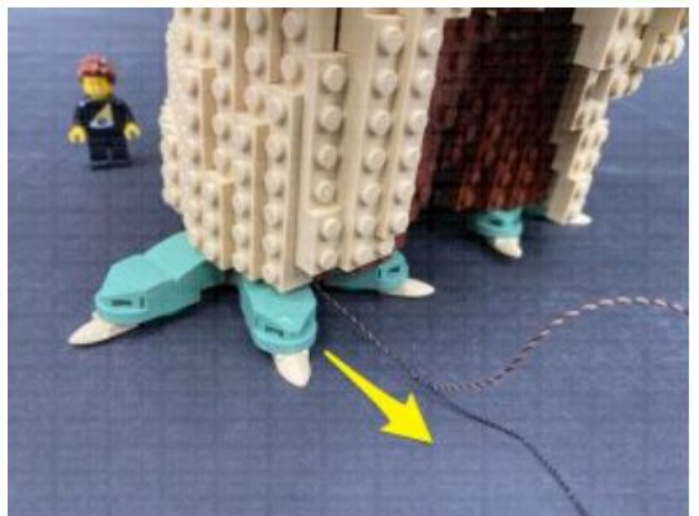
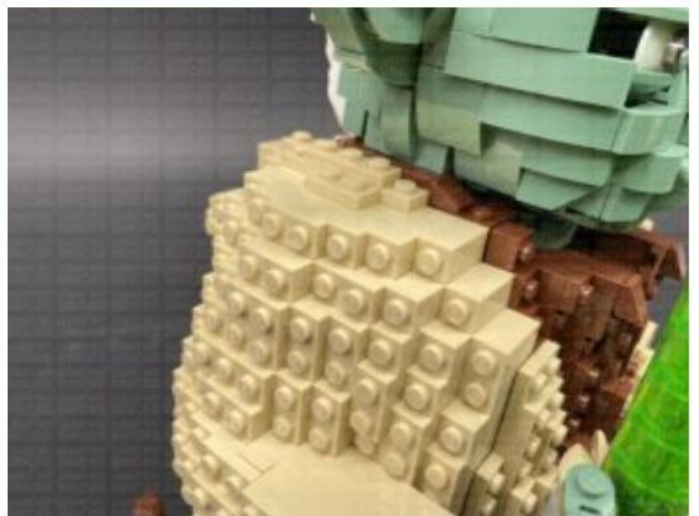
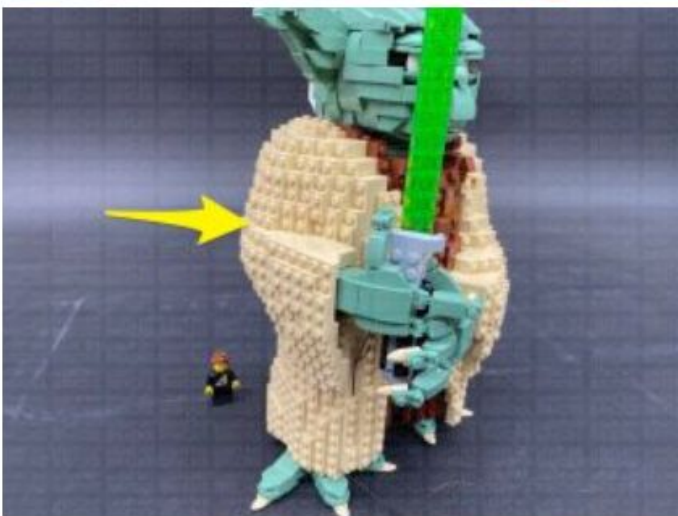
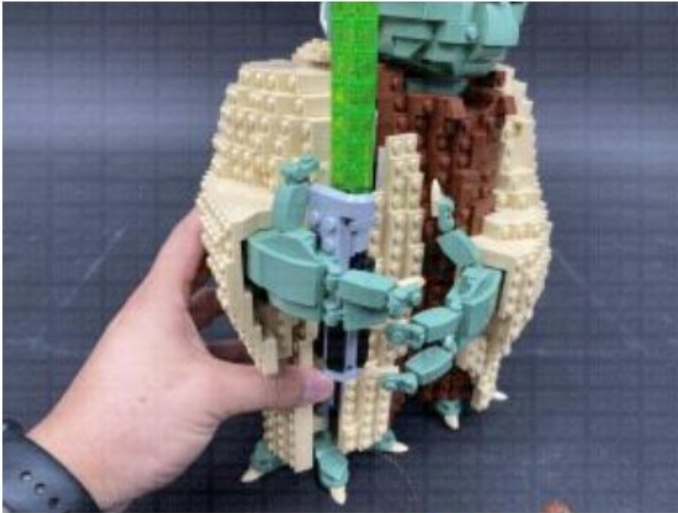
6.) Reconnect the lightsaber to Yoda's hand ensuring the cables are laid behind. Bring the two cables down the inside of the left section and lay them inside as shown below. Reconnect the 2x12 plate with the cables laid underneath.



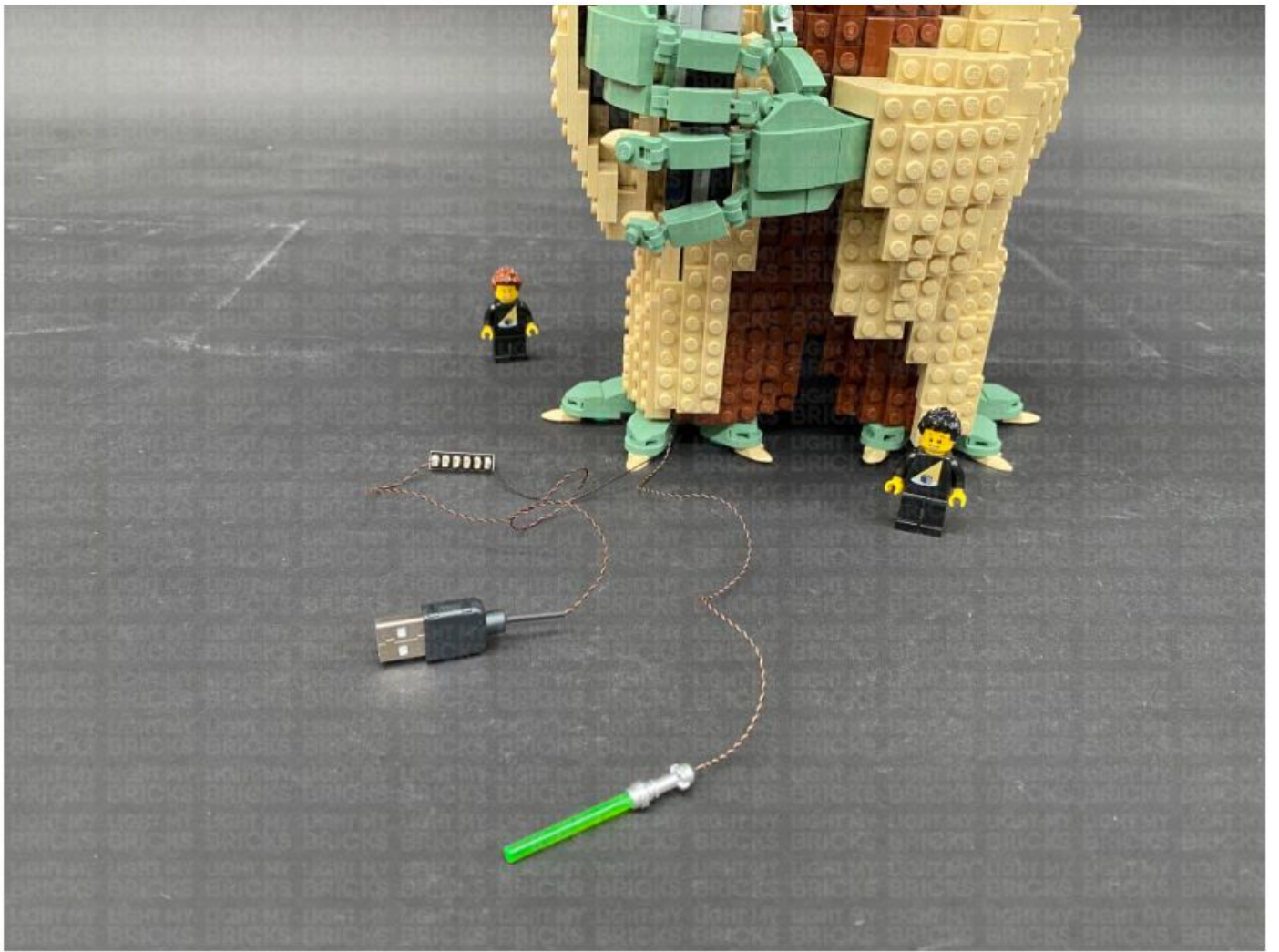
Fold the two cables into a neat bunch as shown below, then tuck it inside the following space, along with the 6-port expansion board and pulse effects board.



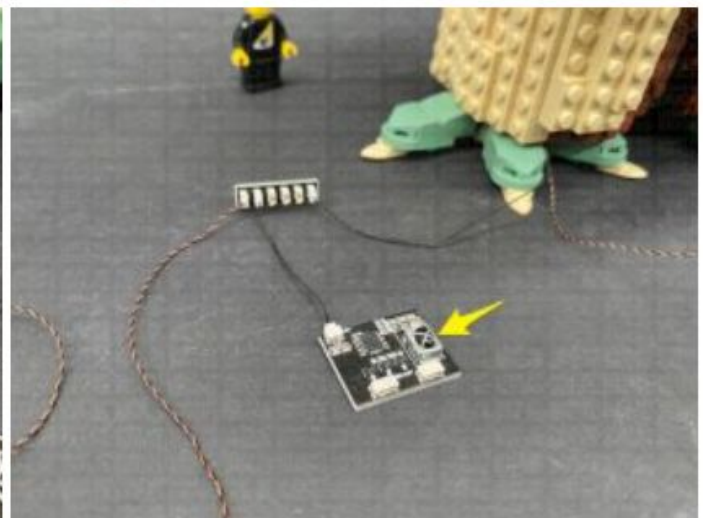
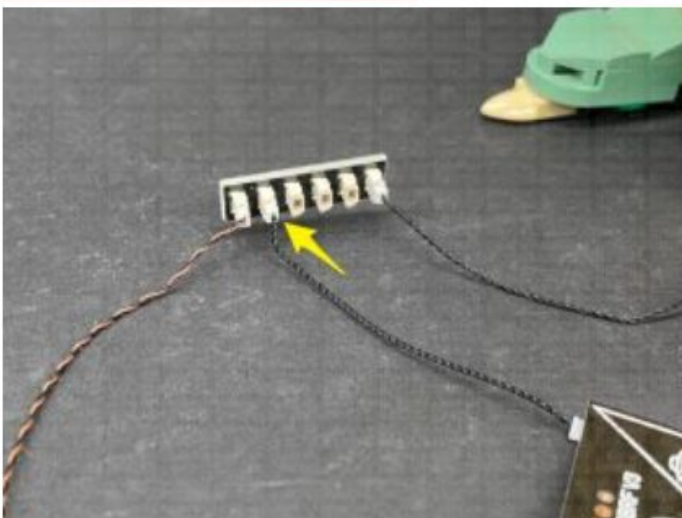
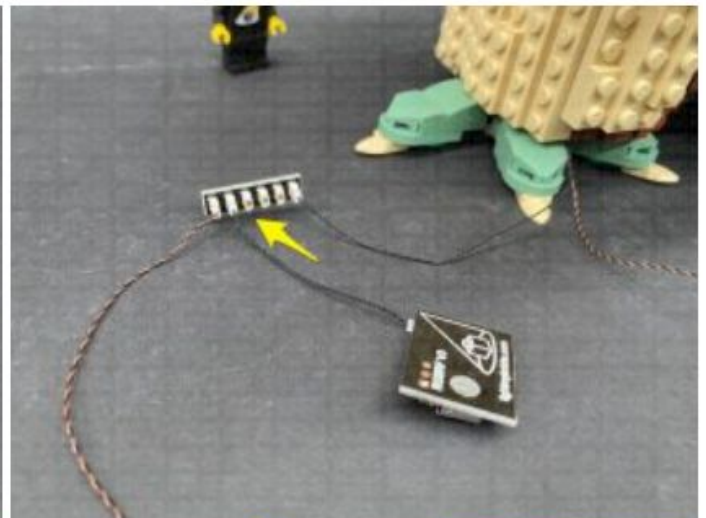
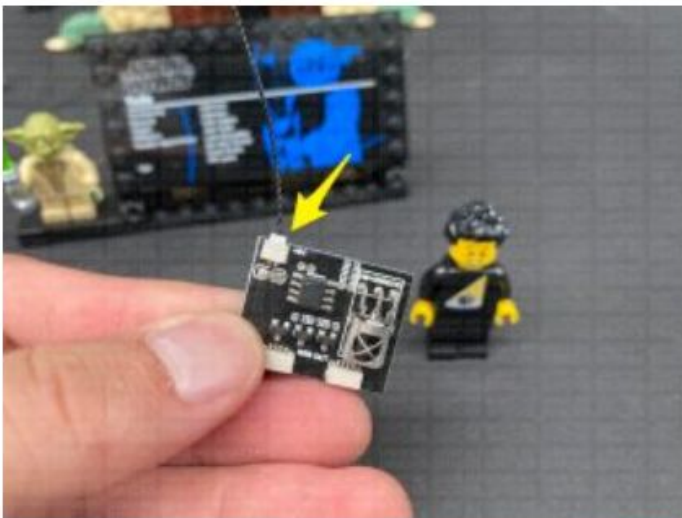
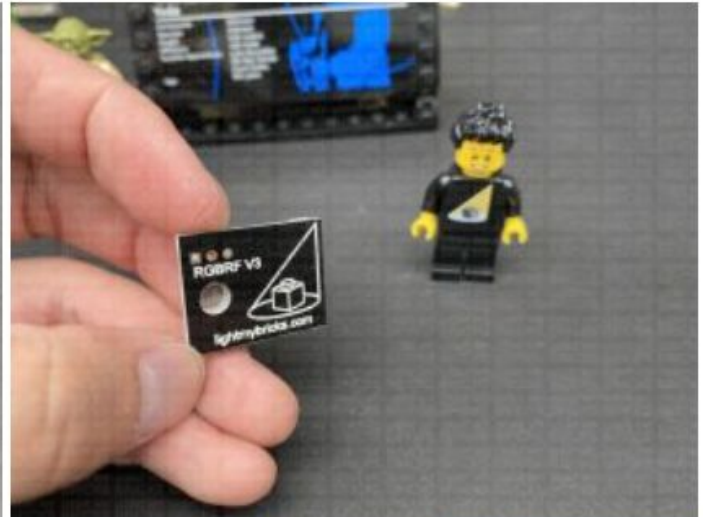
Carefully reconnect the entire left side section ensuring the cables are neatly laid out underneath.





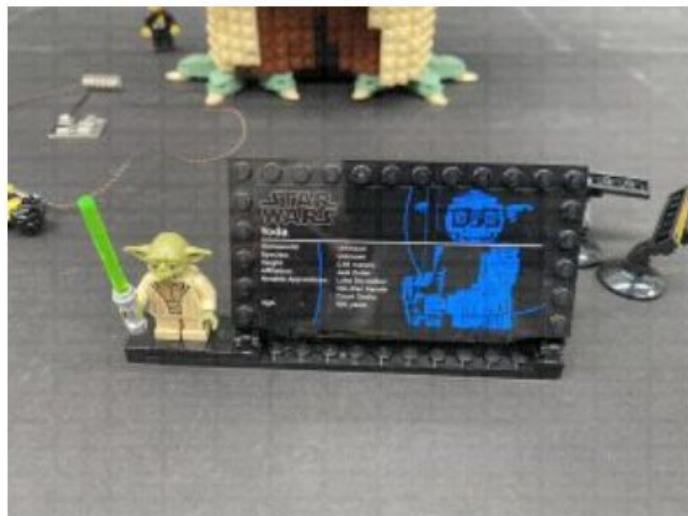


7.) Take the **RGB Control Board** and connect a **5cm Connecting Cable** to the **IN** port (+5V). Connect the other end of the connecting cable to a spare port on the 6-port expansion board near Yoda's feet. Ensure the IR sensor from the RGB control board is facing up.

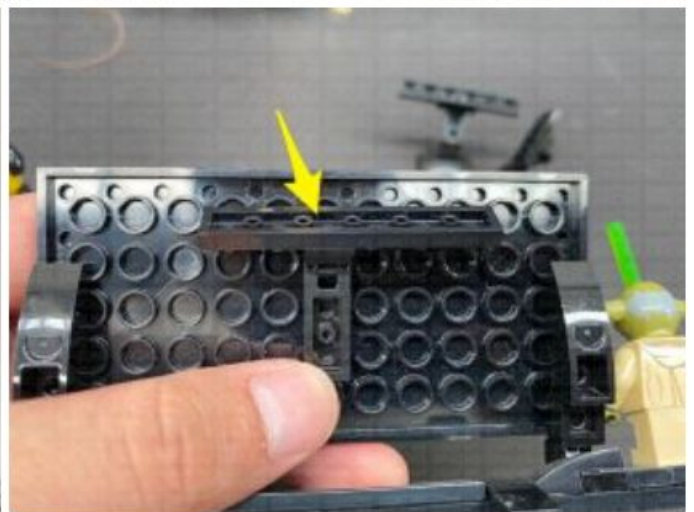
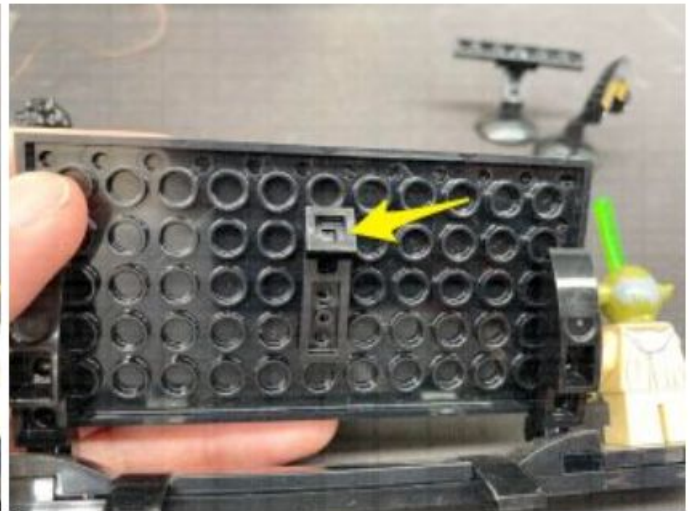
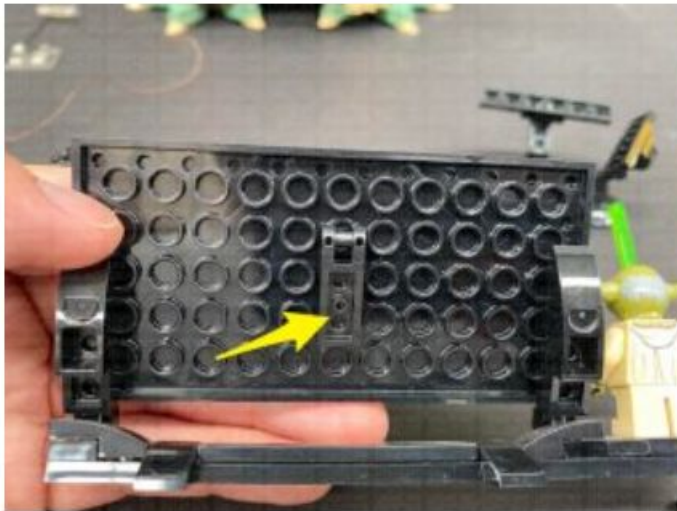


Take the Yoda display stand and turn it around, then take the following provided Black LEGO pieces:

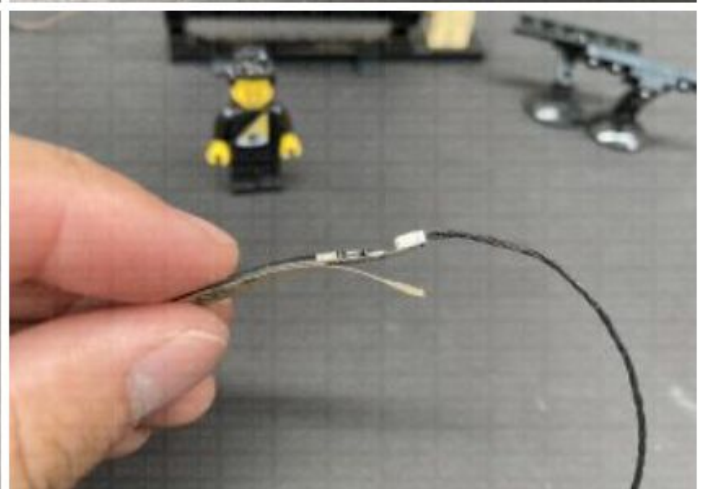
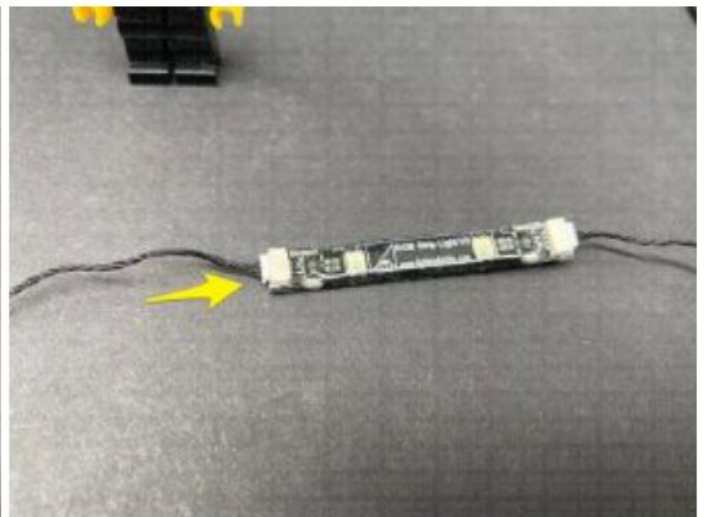
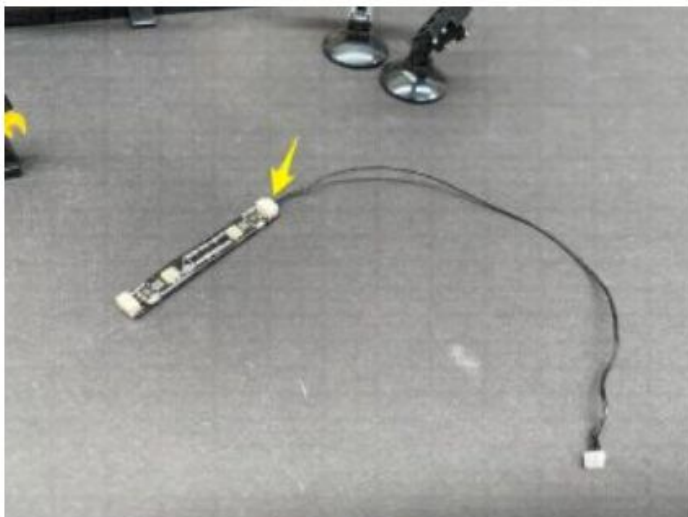
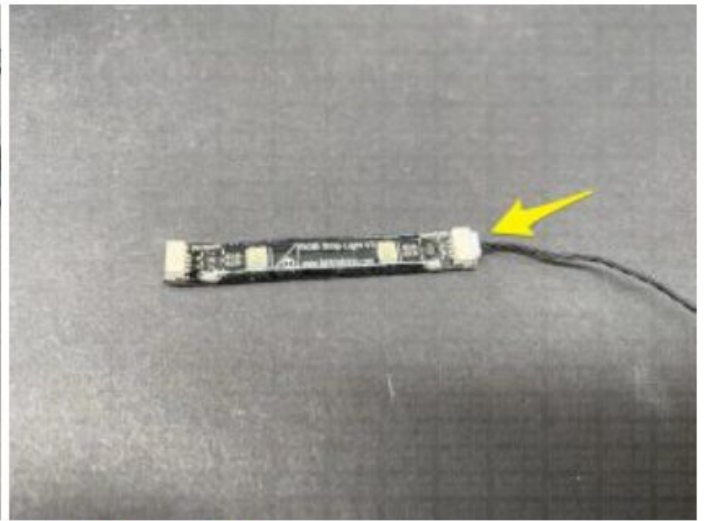
- Black Plate 1×6
- Black Plate 1×2 modified w Handle on End
- Black Tile 1×1 w Clip

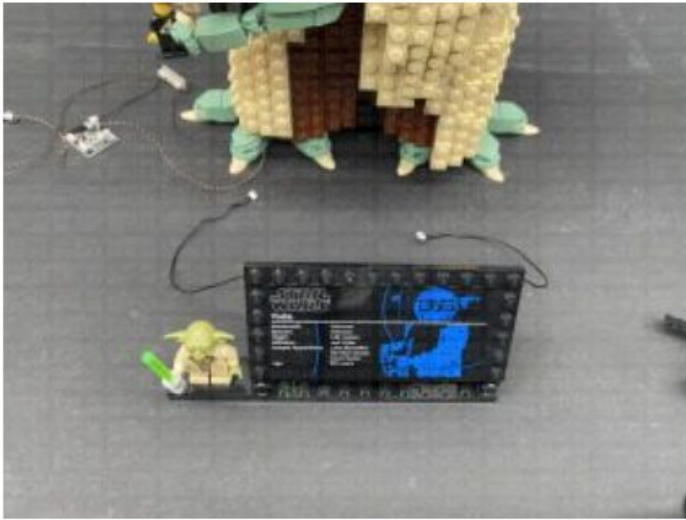
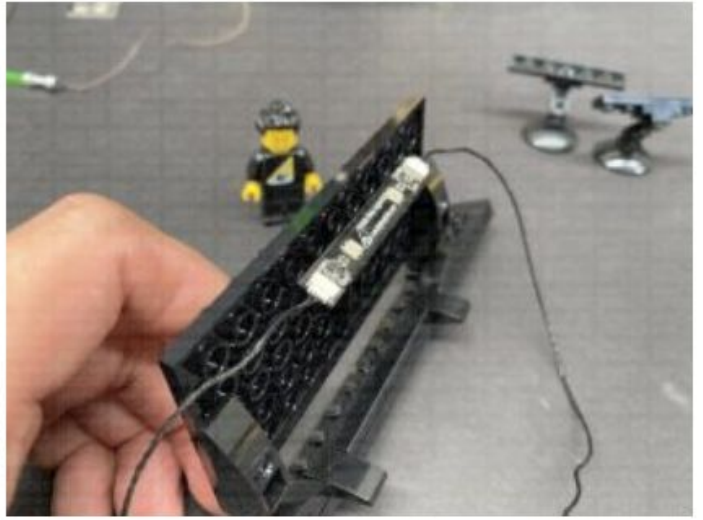
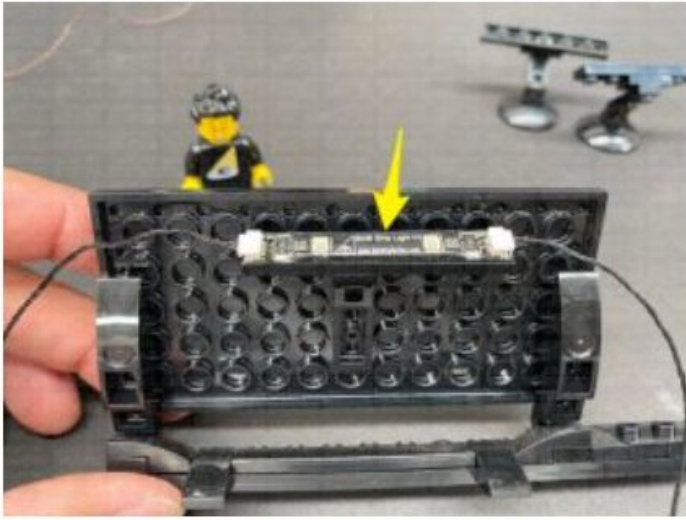


Connect the above pieces to the back of the Yoda display stand as shown below:



8.) Take an **RGB Strip Light** and connect an **RGB Connecting Cable 15cm** to one of the ports, then take another **RGB Connecting Cable 15cm** and connect it to the Strip Light's other port. Using its adhesive backing, stick the Strip Light to the bottom of the black 1×6 plate we connected to the back of the display stand. Position the plate and strip light so that it is facing upward (to shine up onto Yoda)





9.) Take the below provided pieces and follow the images to assemble brackets for a right and left spotlight.

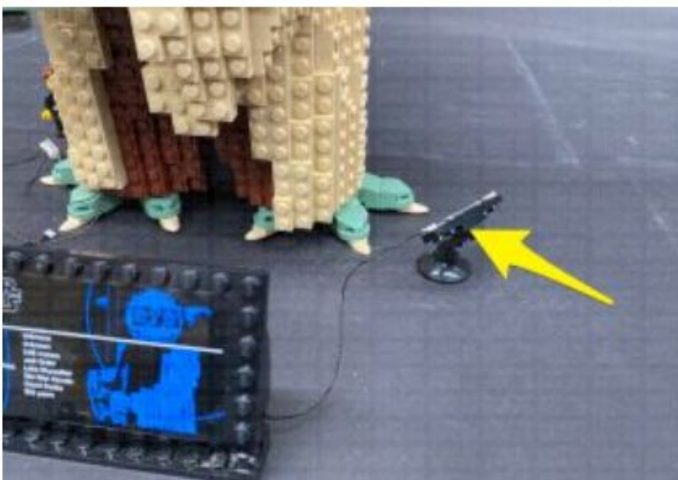
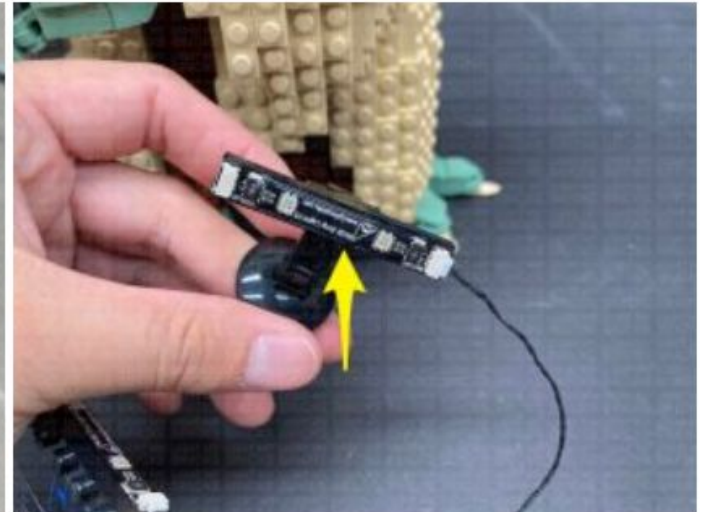
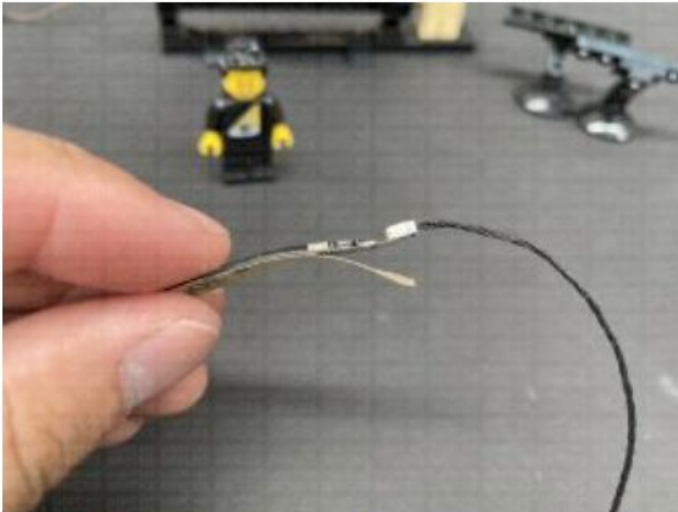
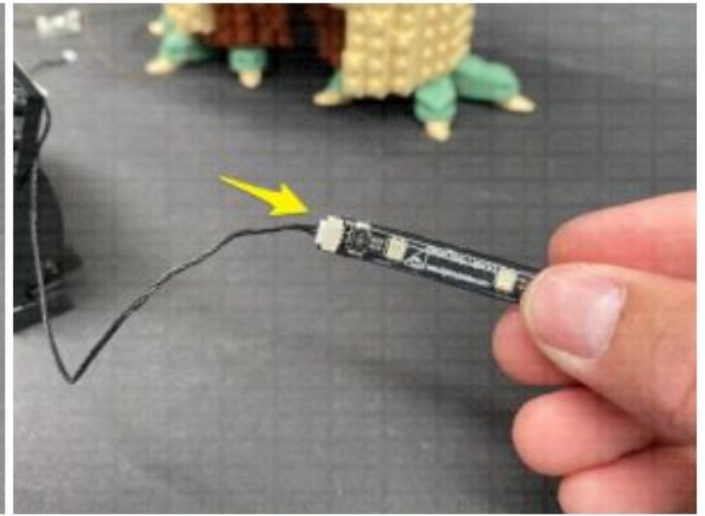
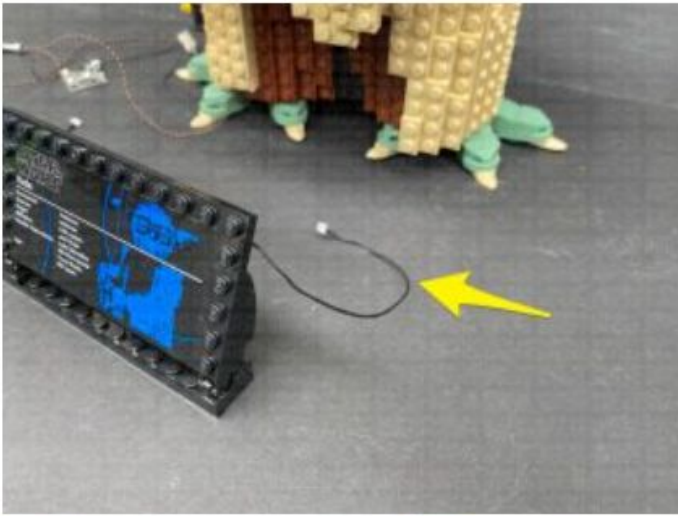
- 2x Black Plate 1×6
- 2x Black Plate 1×2 modified w Handle on End
- 2x Black Tile 1×1 w Clip
- 2x Black Dish Inverted 3×3



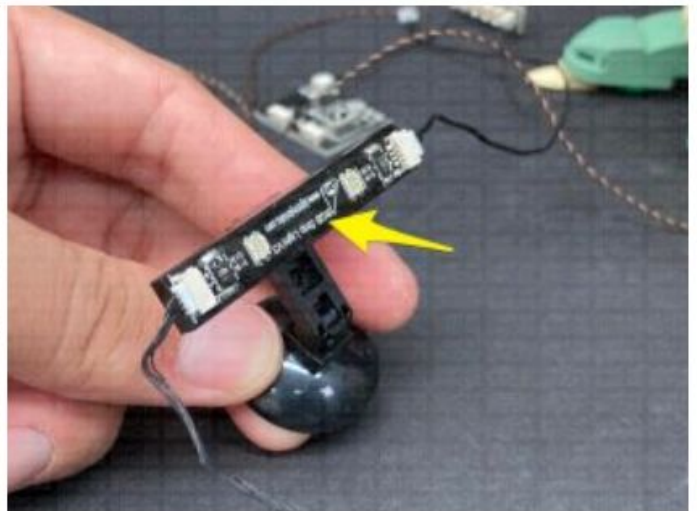
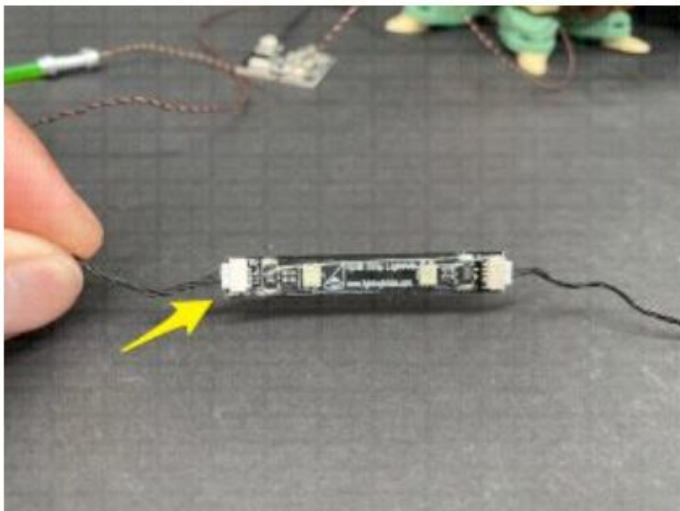
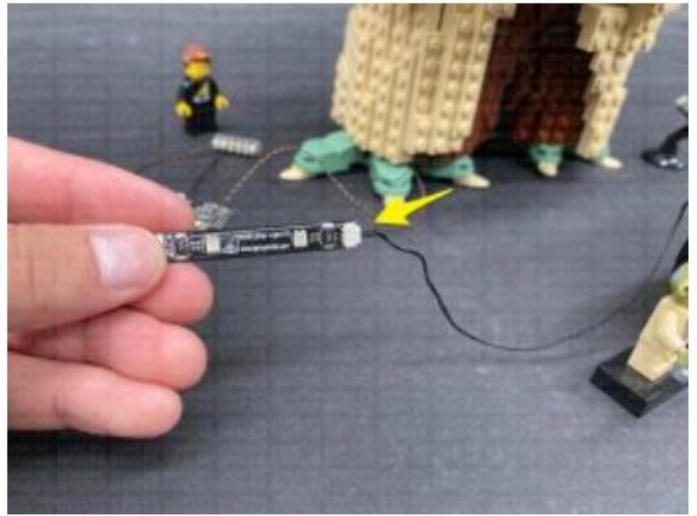
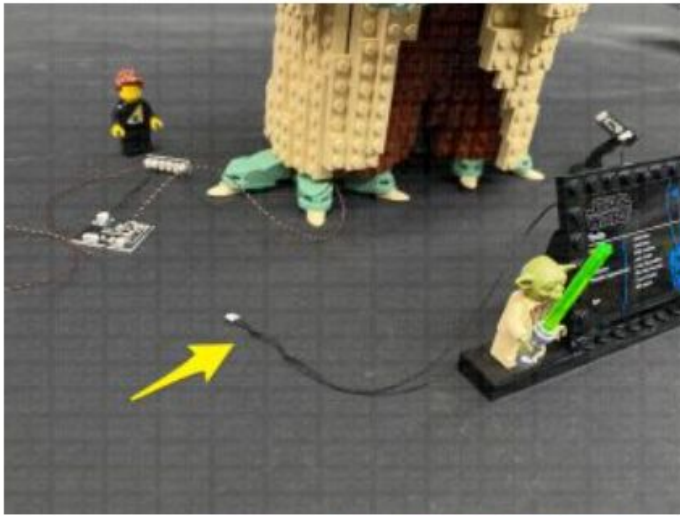




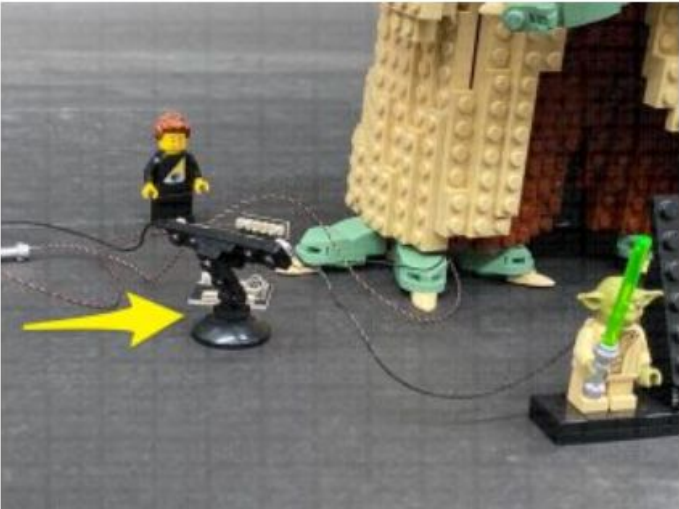
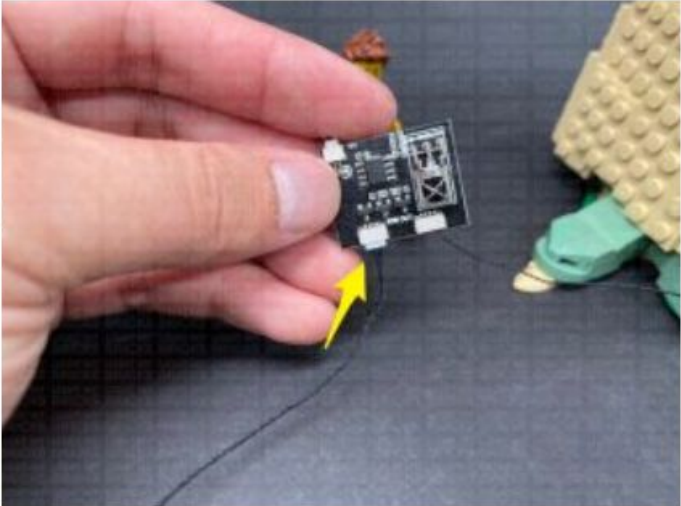
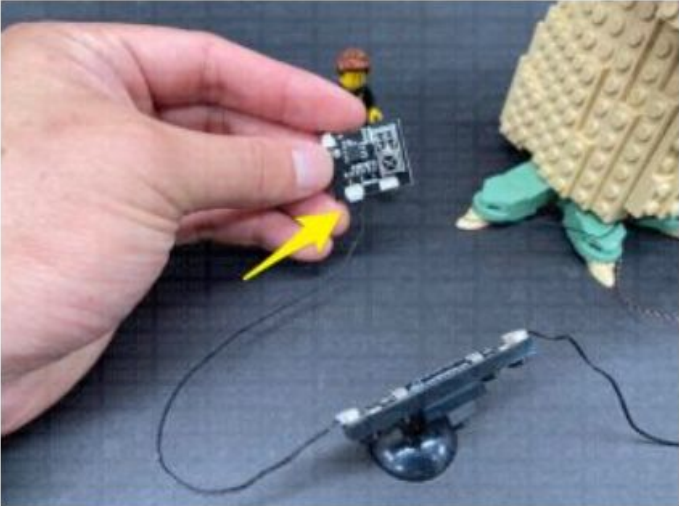
10.) Take other end of the RGB Connecting Cable 15cm from the right side of the display stand and connect it to a new **RGB Strip Light**. Using the strip light's adhesive backing, stick it onto the back of the 1x6 plate from the right spot light. Position the spot light on the right side of Yoda and tilt it upward so that it will shine up onto the right side.



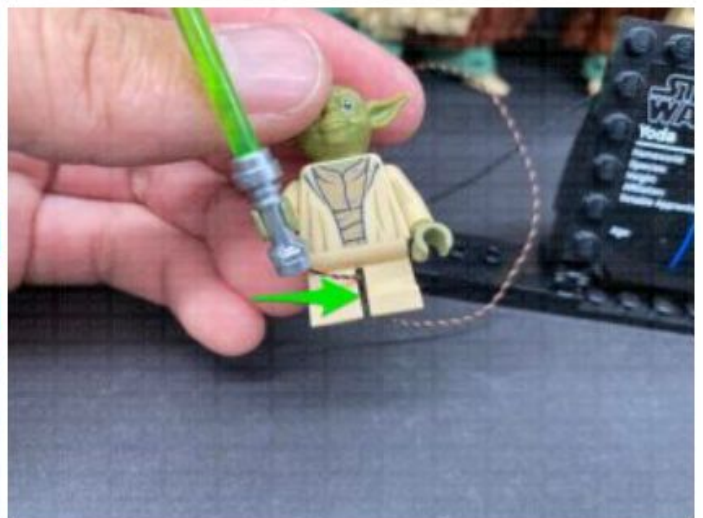
Take the other end of the RGB Connecting Cable 15cm from the left side of the display stand and connect it to the remaining **RGB Strip Light**. Take remaining **RGB Connecting Cable 15cm** and connect it to the strip light's other port. Using the strip light's adhesive backing, stick it onto the back of the 1x6 plate from the left spot light.



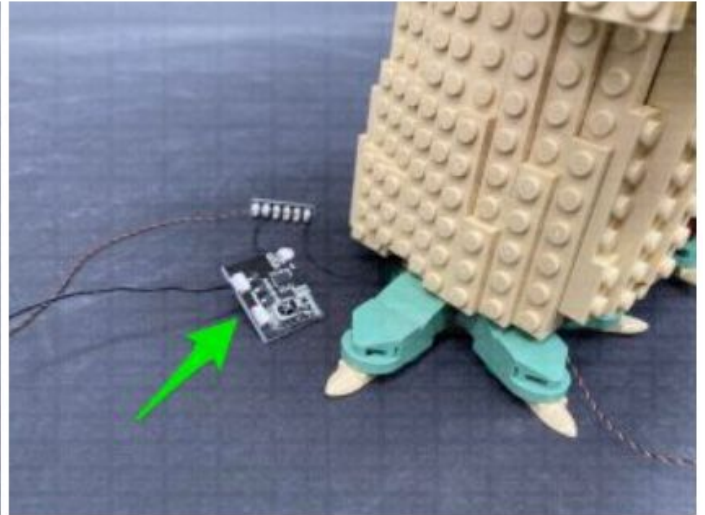
Locate the spare end of the RGB 15cm Cable from previous step and connect it to one of the **OUT** ports on the RGB control Board located near Yoda's feet. Position the spot light on the left side of Yoda and tilt it upward so that it will shine up onto the left side.



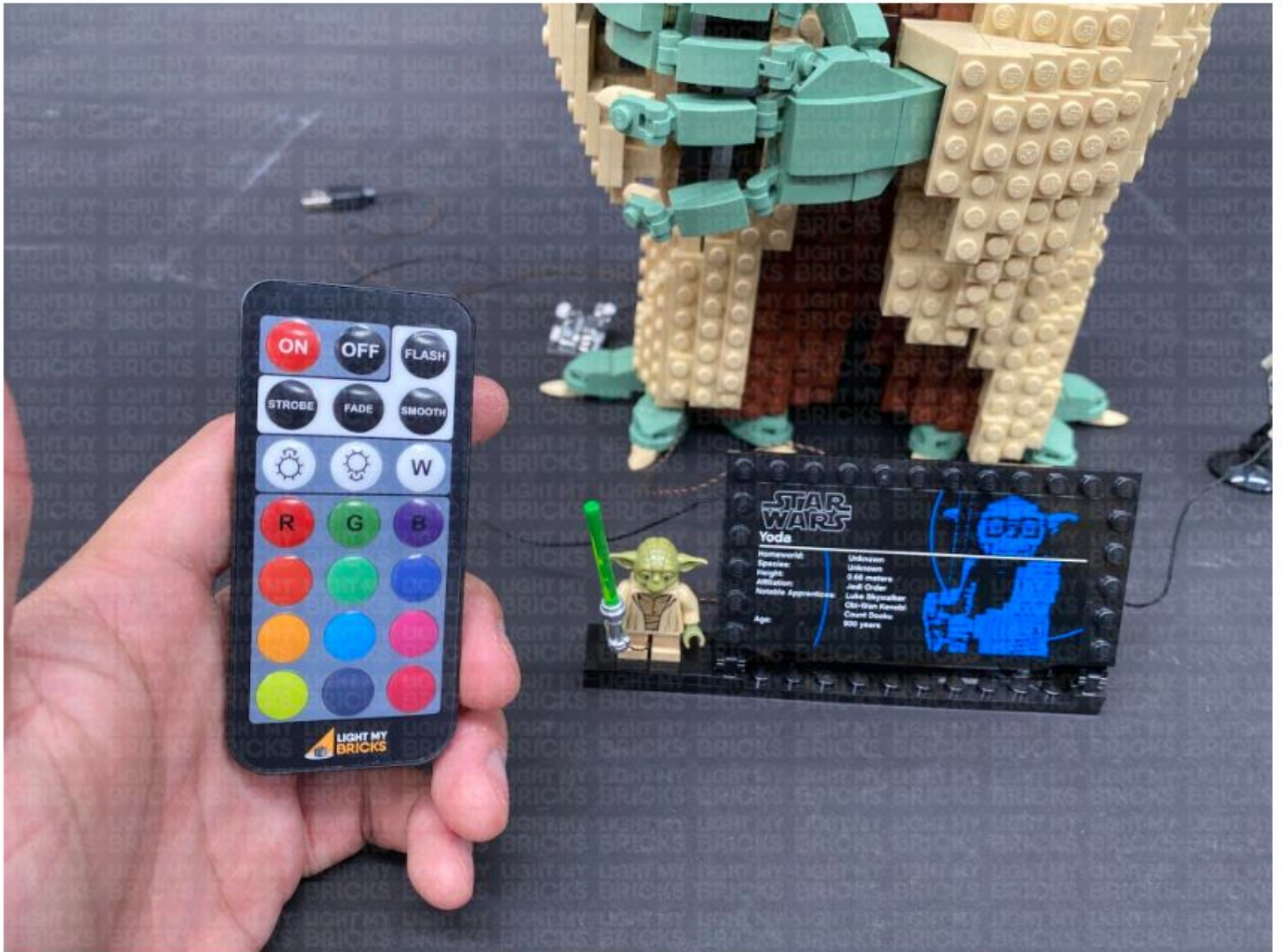
11.) Disconnect the minifig Yoda as well as it's lightsaber. Connect the Light My Bricks Lightsaber Green to Yoda, then tuck the cable in between Yoda's legs. Reconnect it to the display stand.



Neatly position the display stand in front of Yoda (so that the strip light attached behind will shine up onto Yoda), then neaten up the RGB control board and expansion board behind. Ensure the IR sensor on the control board is accessible to enable a clear line of sight signal for the remote control.



12.) Connect up your power source and turn everything ON. By default, the RGB Strip Lights are deactivated and need to be turned on via the RGB Remote Control. You can choose from 13 different colours and 5 different effects.





This finally completes installation of the Light My Bricks Star Wars Yoda 75255 Light Kit.

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

