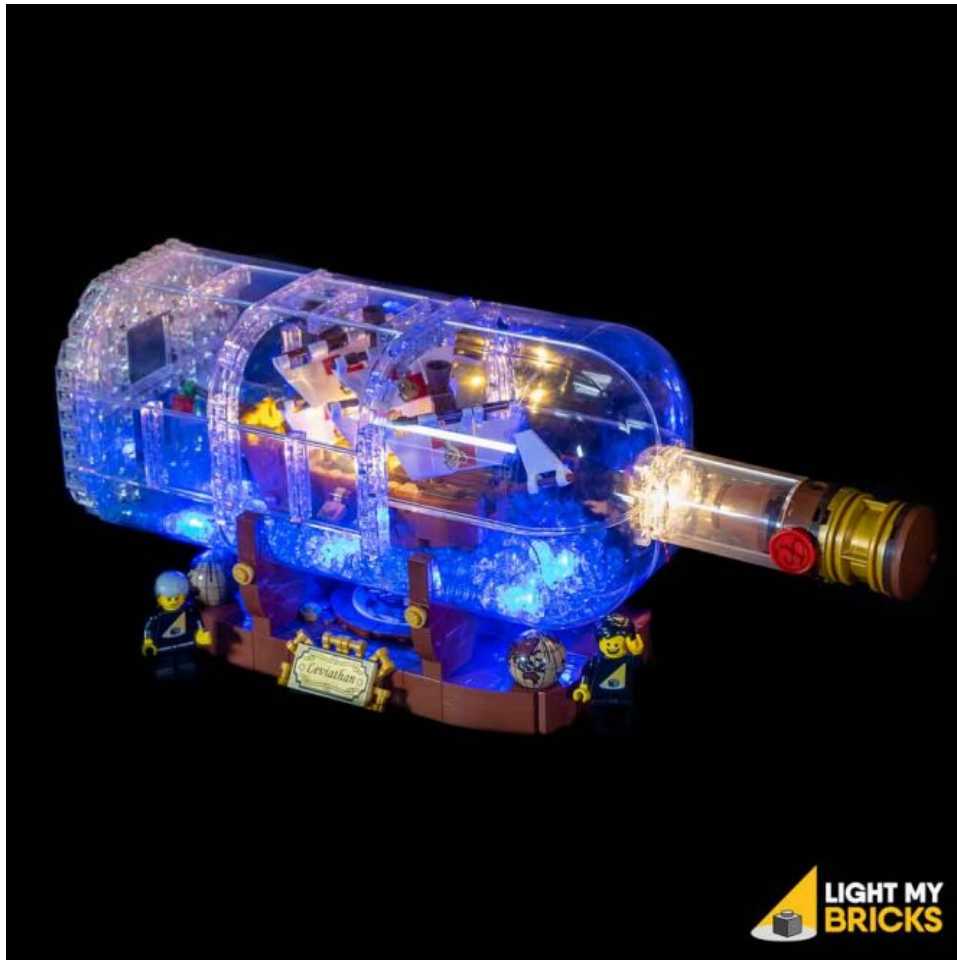


Light My Bricks: LEGO Ship In A Bottle 21313 Lighting Kit



The following page is the instructions for the **Light My Bricks LEGO Ship In A Bottle (21313) 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 Ship In A Bottle (21313) LED light

kit , please click [here](#) to view the product page

Package Contents:

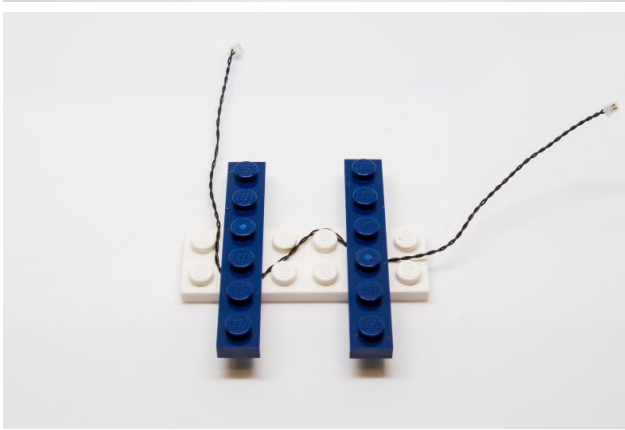
- 4x White 30cm Bit Lights
- 6x Blue 30cm Bit Lights
- 1x Multi Effects Board
- 1x 6-Port Expansion Board
- 1x 8-Port Expansion Board
- 2x 5cm Connecting Cables
- 1x AA Battery Pack
- 6x Adhesive Squares

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.

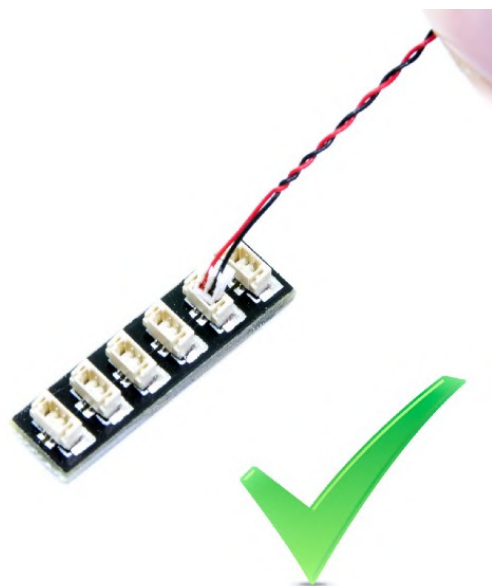




CAUTION: Forcing LEGO® to connect over a cable can result in damaging the cable and light.

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.

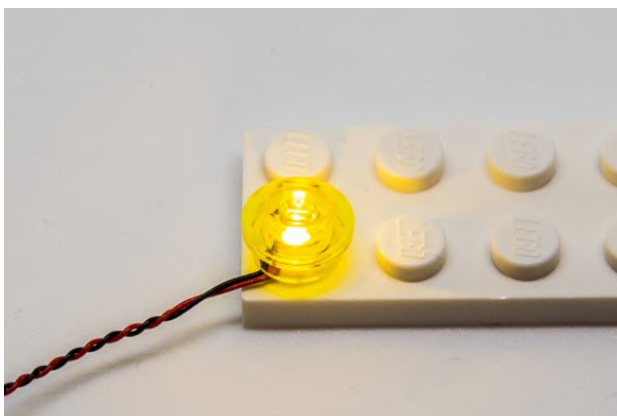
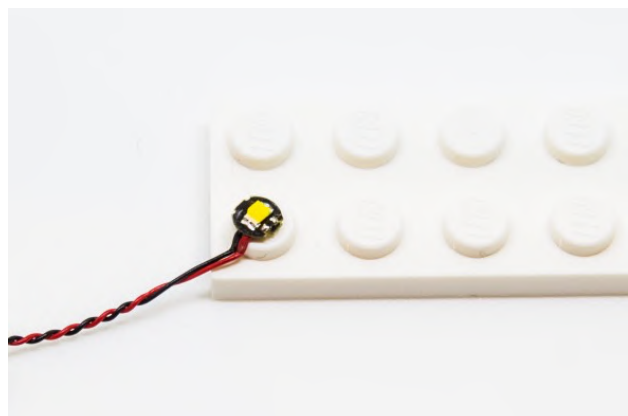
Connecting cable connectors to Strip Lights

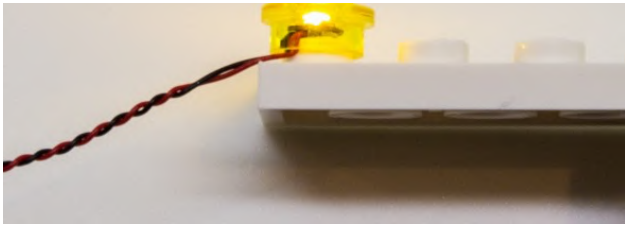
Take extra care when inserting connectors to ports on the Strip Lights. Connectors can be inserted only one way. With the Strip Light facing up, ensure the side of the connector with the wires exposed is facing down. If a plug won't fit easily into a port connector, don't force it. Doing so will damage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



Installing Bit Lights under LEGO® bricks and plates.

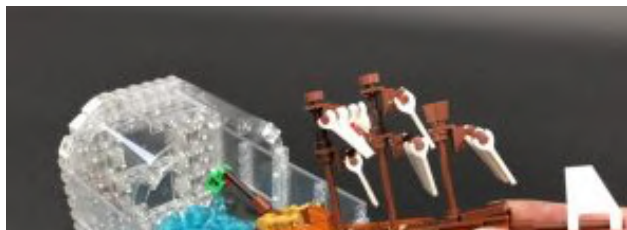
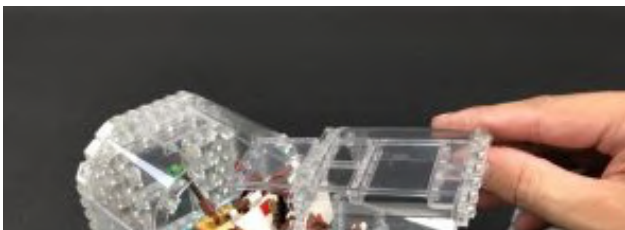
When installing Bit Lights under LEGO® pieces, ensure they are placed the correct way up (Yellow LED component exposed). You can either place them directly on top of LEGO® studs or in between.





OK, Let's Begin!

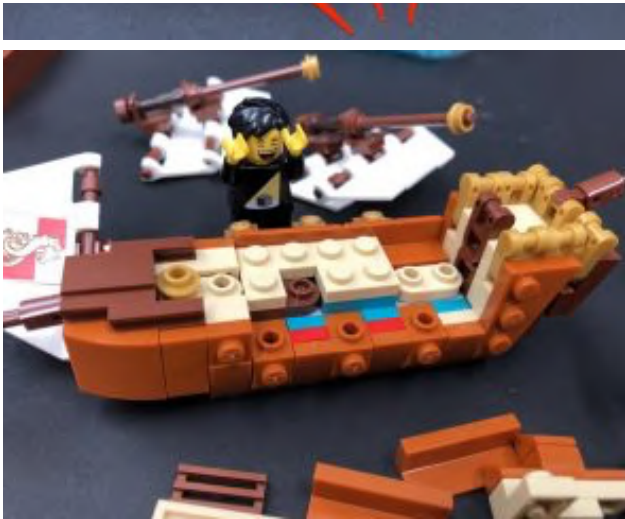
1.) First remove the bottle from the stand and disconnect the bottle top as well as top window sections to allow us to remove the ship.



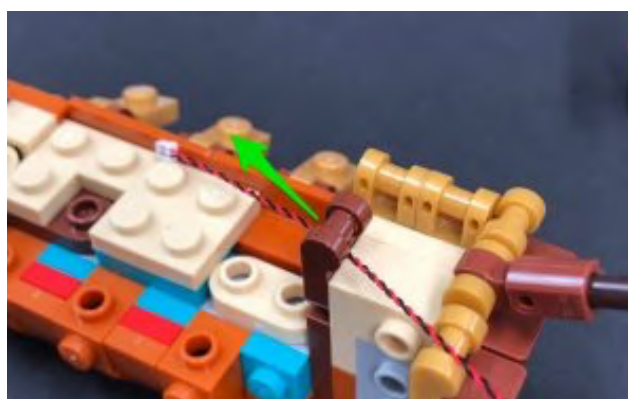
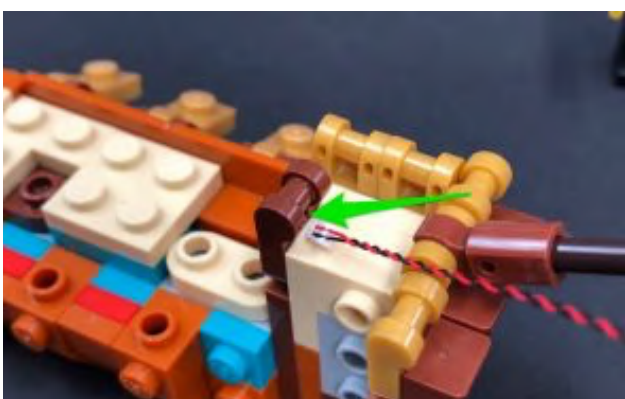


2.) Remove the three masts from the ship, then disconnect the following sections around the front:



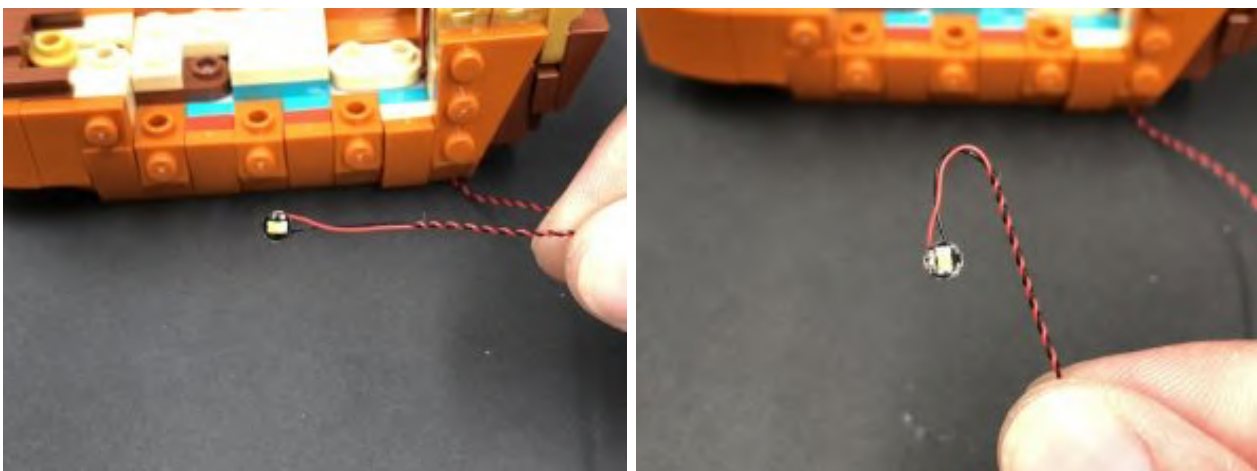


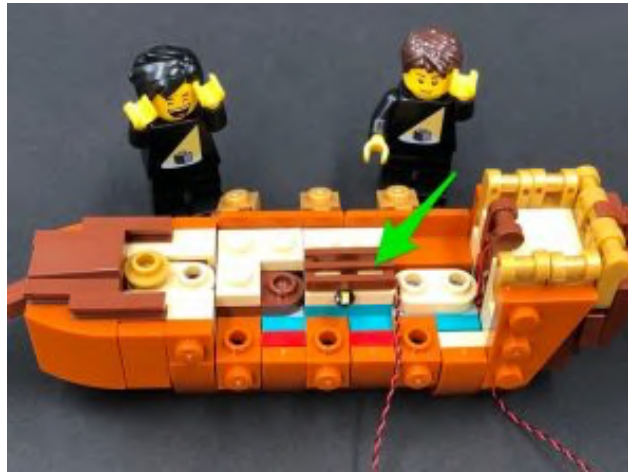
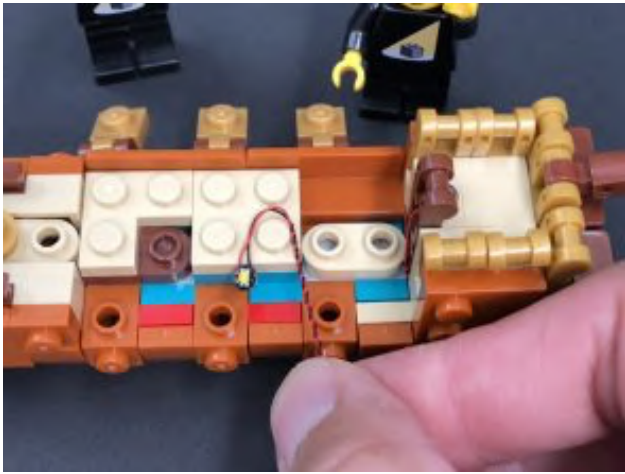
3.) Take a **White 30cm Bit Light** and thread the connector end of the cable through the gap of the brown clip on the back of the ship. Thread it all the way through until the Bit Light is up against the edge of the gap. Ensure the LED is facing up, then lay the cable down the side of the ship as shown below. Secure it in place by reconnecting the back section over the top. The Bit Light should be seen slightly peaking out from below the brown clip.





4.) Take another **White 30cm Bit Light** and slightly bend the wire down about 1cm from the top of the Bit Light as shown below. Hook the bit light over the following stud, then secure it in place by reconnecting the brown grill tile over the top.

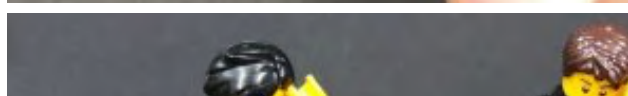
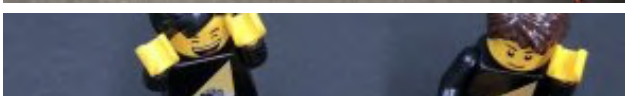
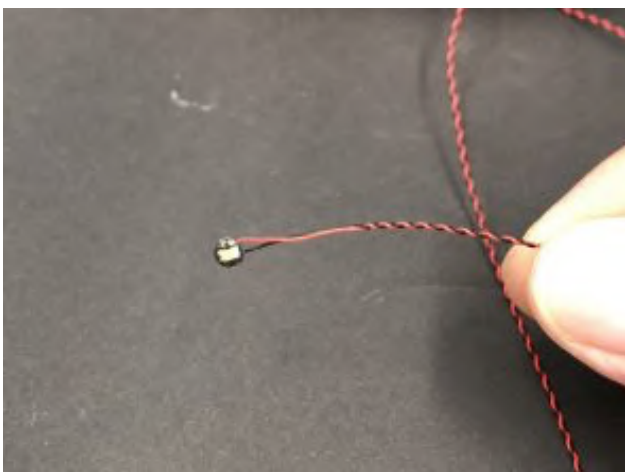


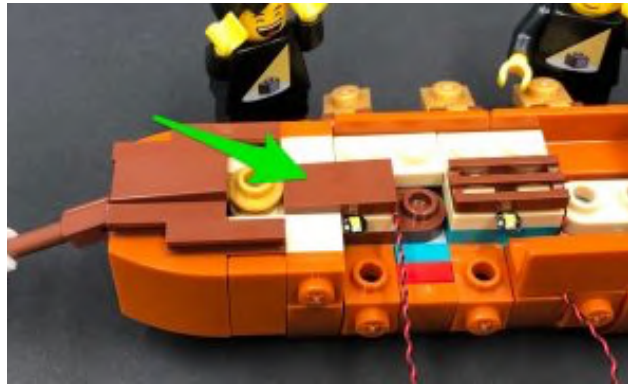
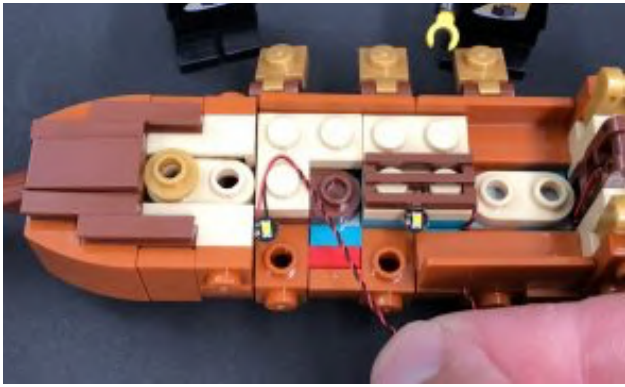


Lay the cable down in between studs, then reconnect the side brown wall tile.



Repeat this process to install another **White 30cm Bit Light** to the left, securing it in place by reconnecting the brown tile over the top.

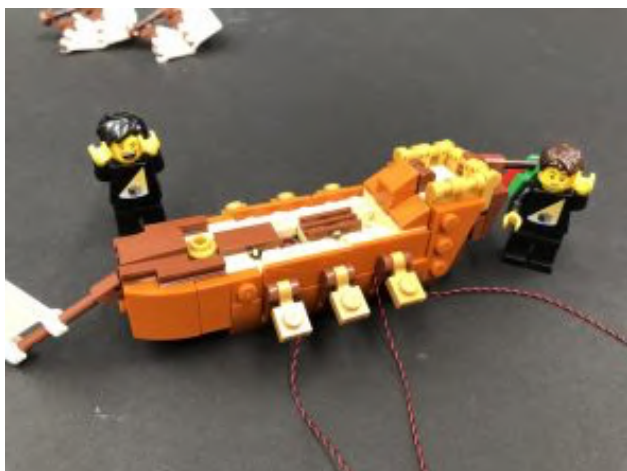




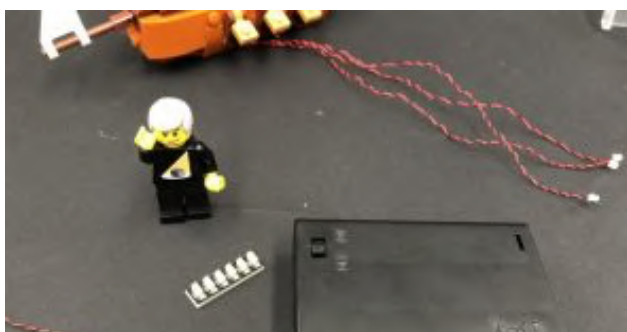
5.) Before reconnecting the brown wall tile, slide in the 1x6 plate as shown below. You may need to slightly lift up the two bit lights to reconnect the plate back in place. Reconnect the brown wall tile by sliding it in and connecting it underneath, then reconnect the last remaining section to the back of the ship.

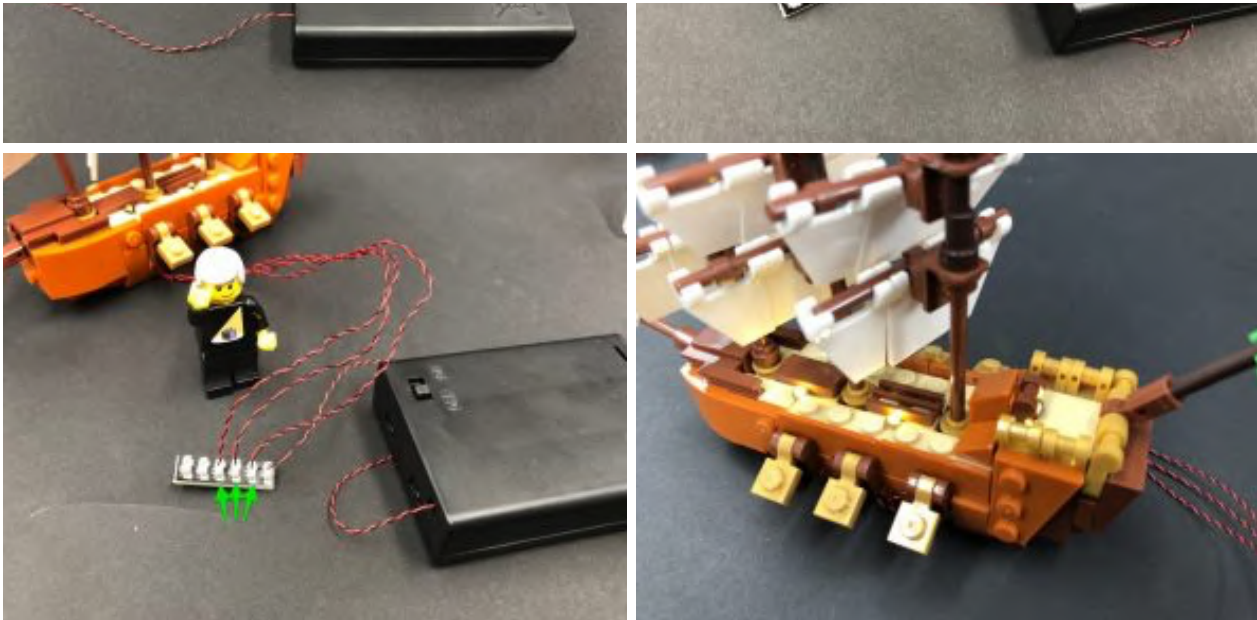


Reconnect the three masts then group the three cables together and twist/wind them around each other a few times at the top to lock them in place.



6.) Take the **AA Battery Pack** and insert 3x AA Batteries to it. Connect the battery pack cable to the first port on the **6-Port Expansion Board**. Connect the three cables from the ship to the spare ports on the expansion board, then turn **ON** the battery pack to test the lights connected are working OK.



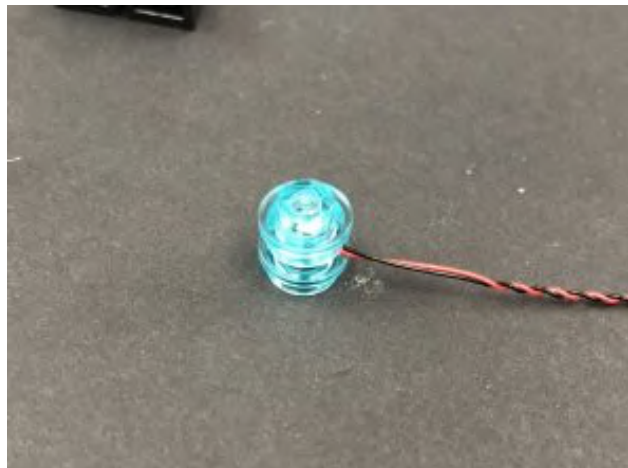
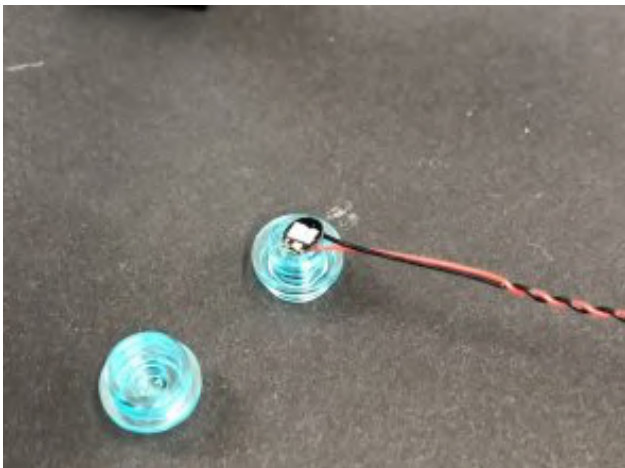
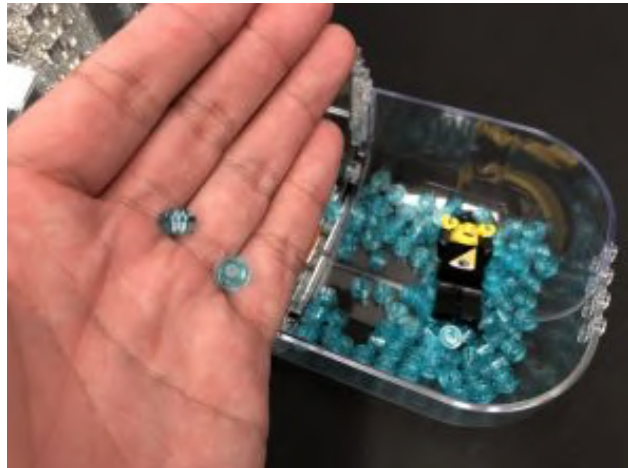
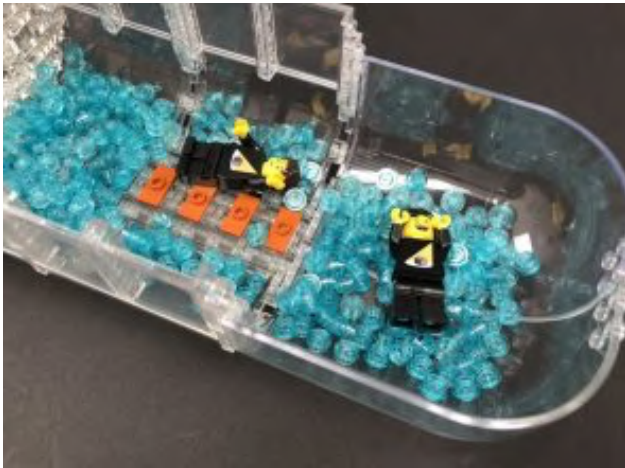


*Note: If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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

Disconnect the three bit lights and battery pack from the expansion board, then continue to twist/wind the cables around each other all the way to the end so they all come together to form one larger cable.



7.) Take two trans light blue round plates from inside the bottle then take out a **Blue 30cm Bit Light** and place it directly over one of studs. Secure the Bit Light in place by reconnecting the other trans light blue round plate over the top as shown below:



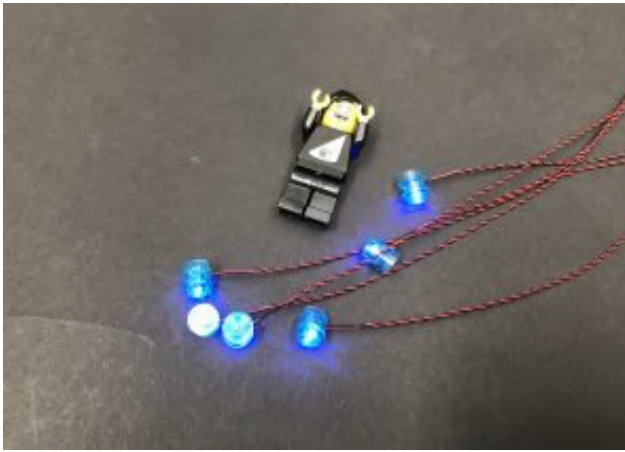
Repeat this step to install another **5x Blue 30cm Bit Lights** using more of the

trans light blue round plates from inside the bottle to secure them in place.



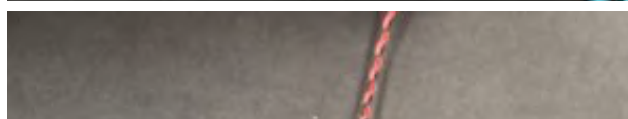
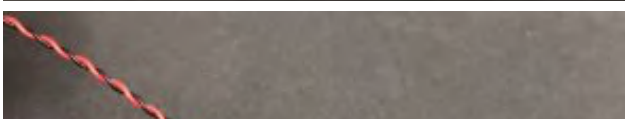
Take the **8-Port Expansion Board** and connect the AA Battery Pack to it, then connect all six Blue Bit Light cables. Turn ON the battery pack to test all the blue lights are working OK.

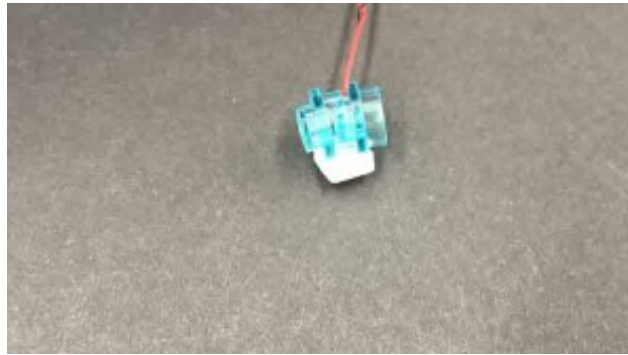
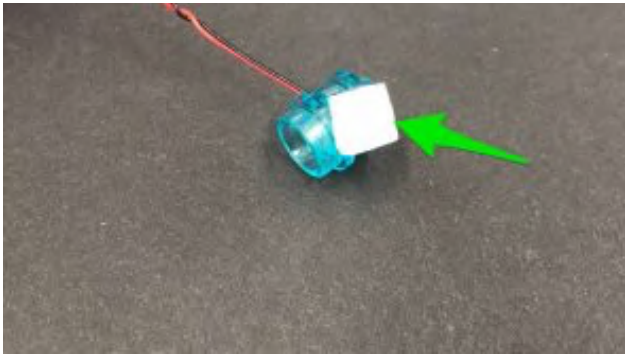




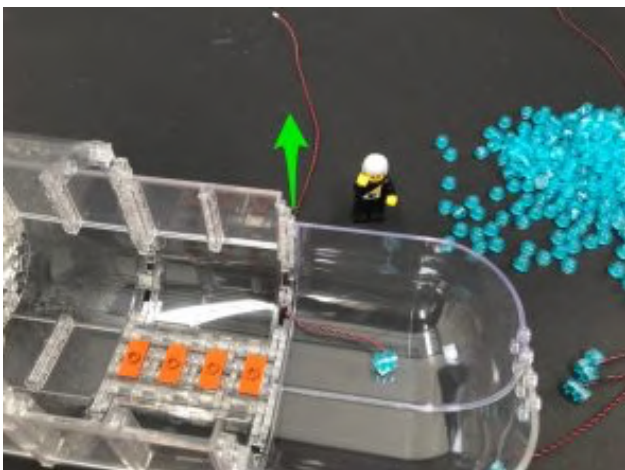
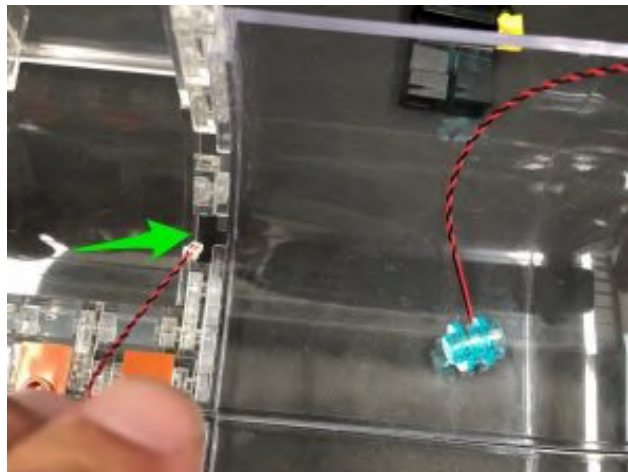
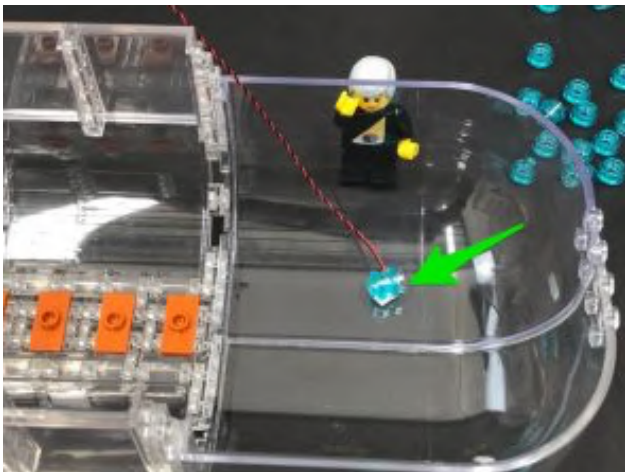
*Note: If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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

8.) Tip all the trans light blue round plates out of the bottle then take an **Adhesive Square** and stick it to the side of the trans light blue plates where we have installed one of the Blue Bit Lights to. We will be installing 6 blue lights around the base of the bottle.



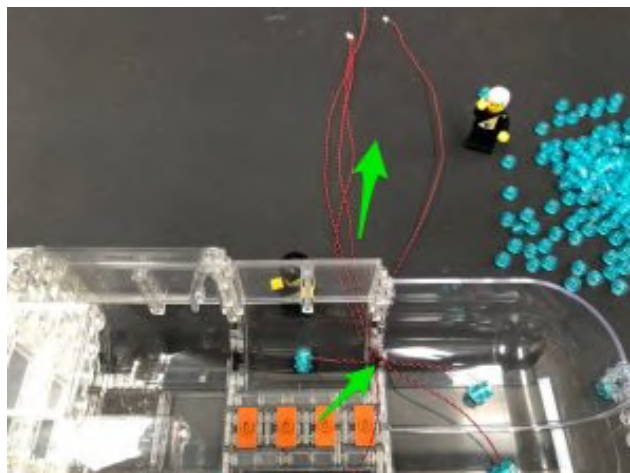
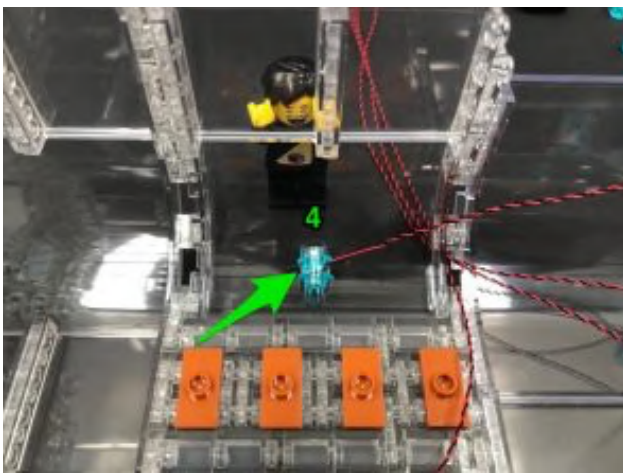
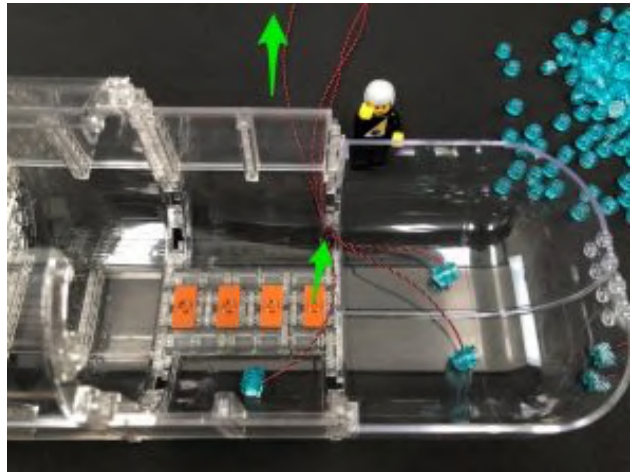
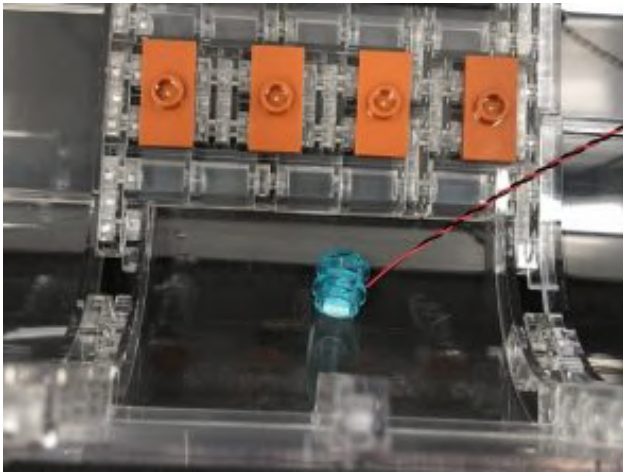
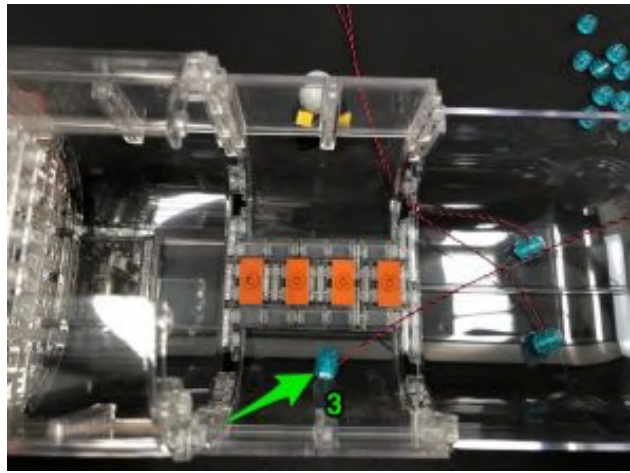
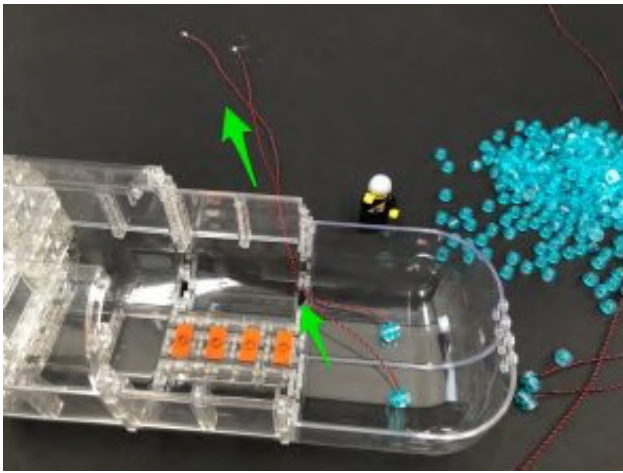
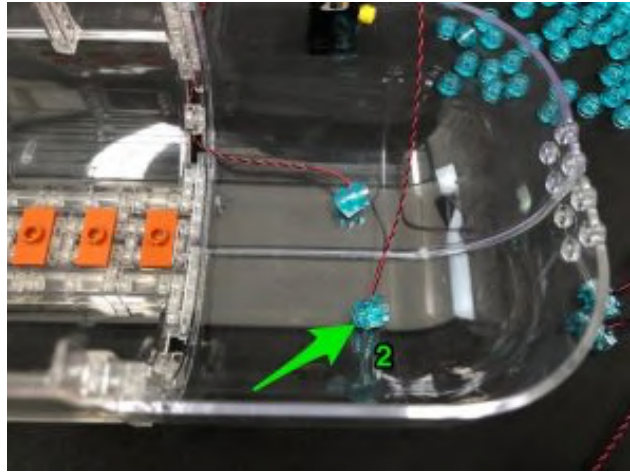
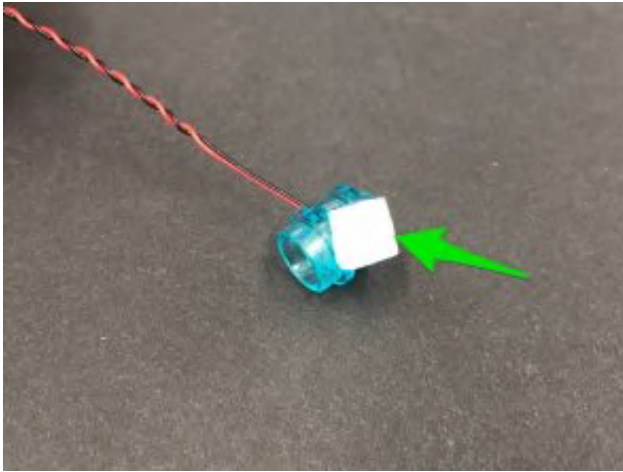


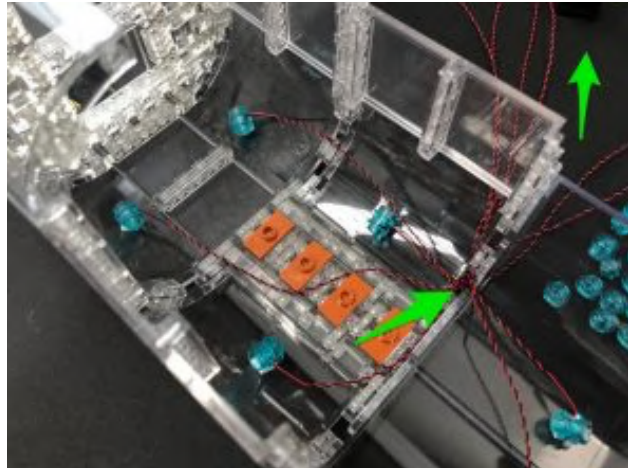
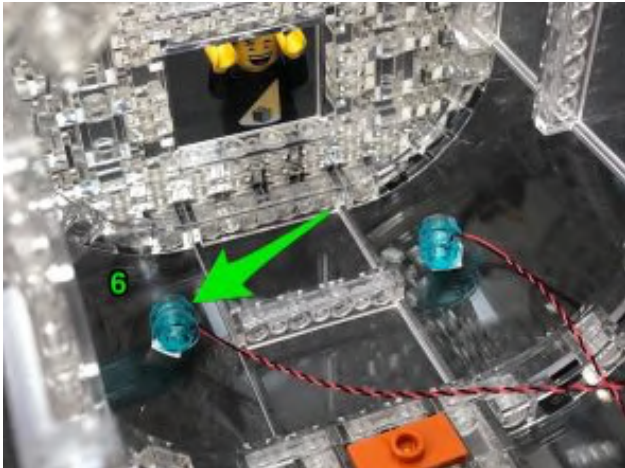
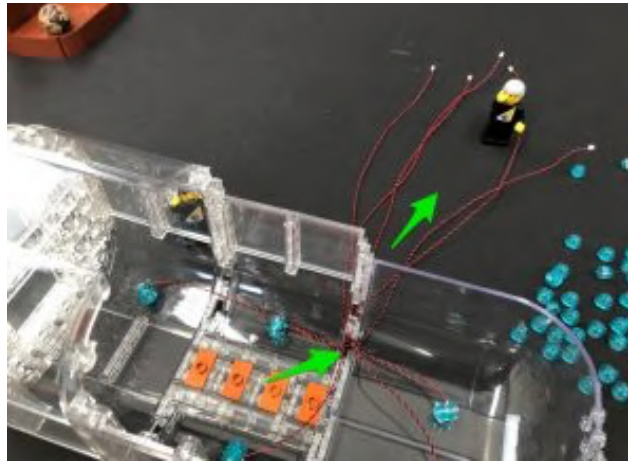
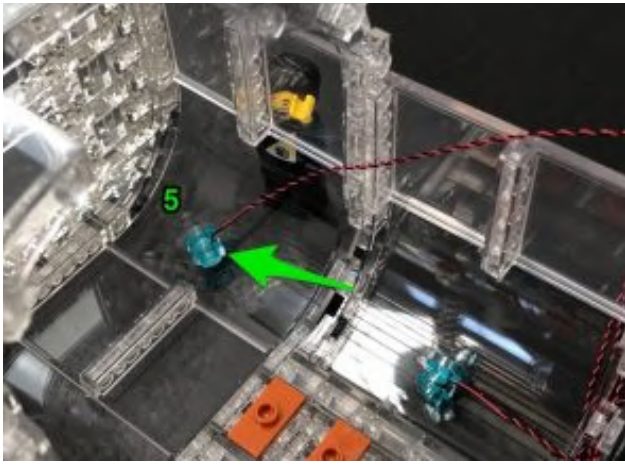
Mount the LEGO plates with Bit Light to the base of the bottle as shown below, then thread the connector end of the cable through the lower gap of the bottle. Pull the cable all the way out from behind.



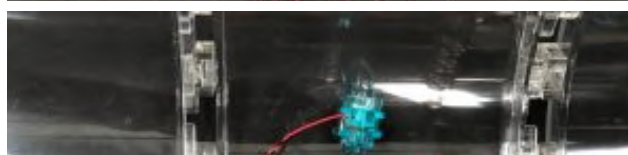
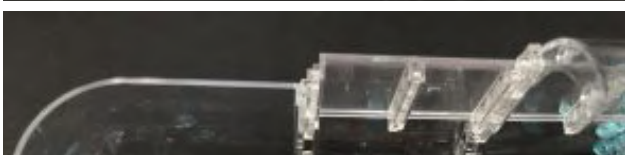
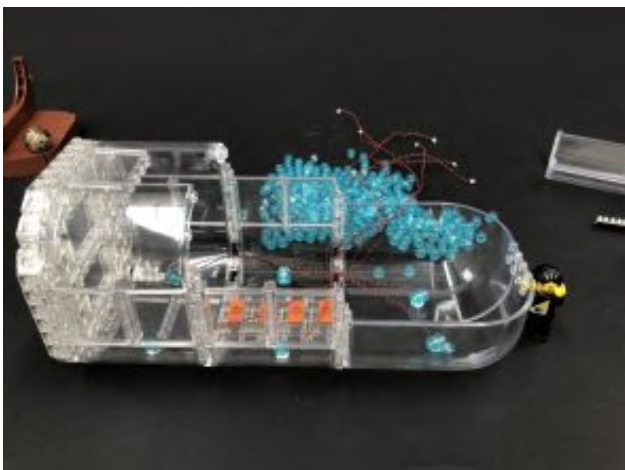
We will now install the remaining five Blue Bit Lights around the base of the bottle. Using the same method as above, mount the other five translucent light blue round plates with Bit Lights to the base of the bottle using extra **Adhesive Squares**. Continue to thread the other end of the cables through the same gap

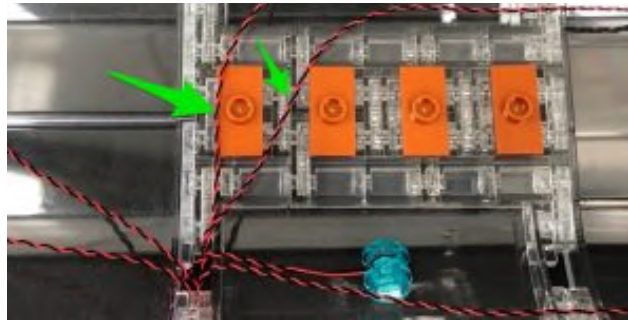
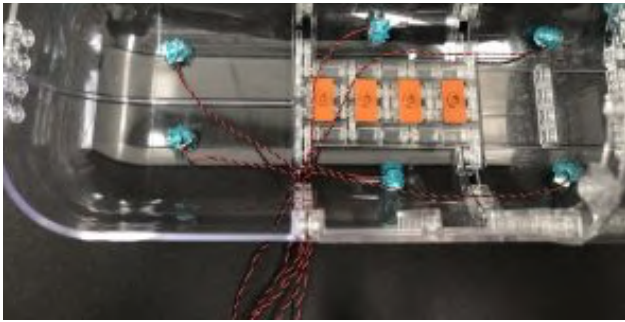
we did for the first Blue Bit Light.



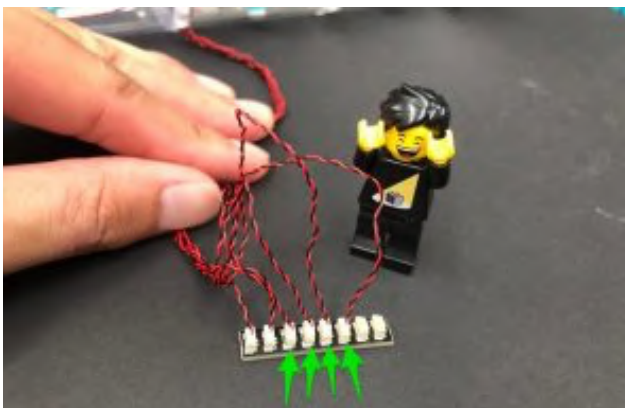
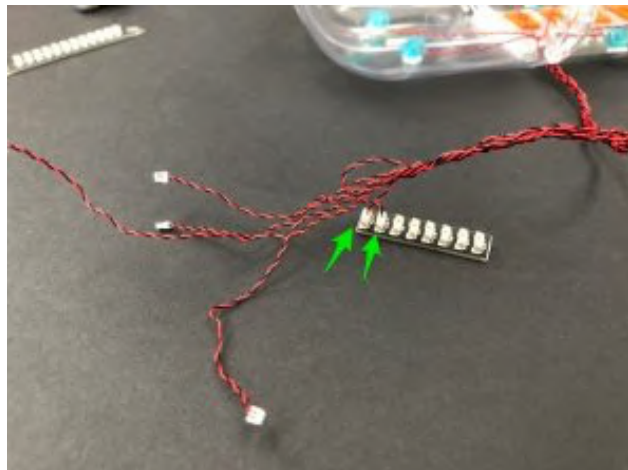
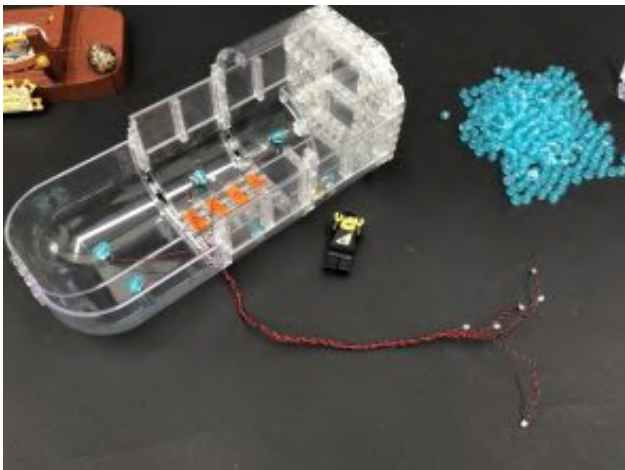
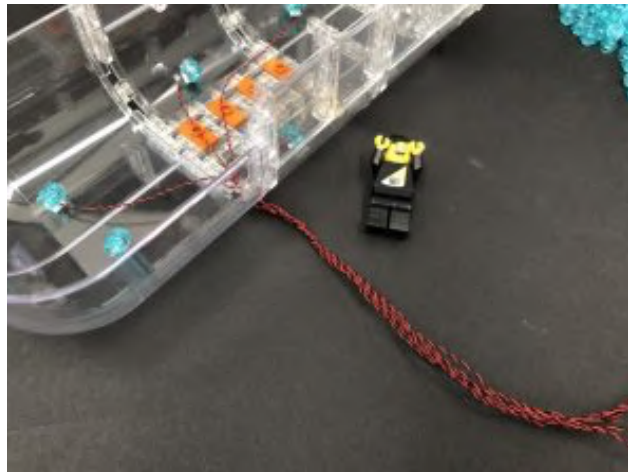


9.) Turn the bottle around to the back, then ensure all cables inside the bottle are laid away from the brown plates except for the two cables shown below. Lay these two cables in between the brown plates.

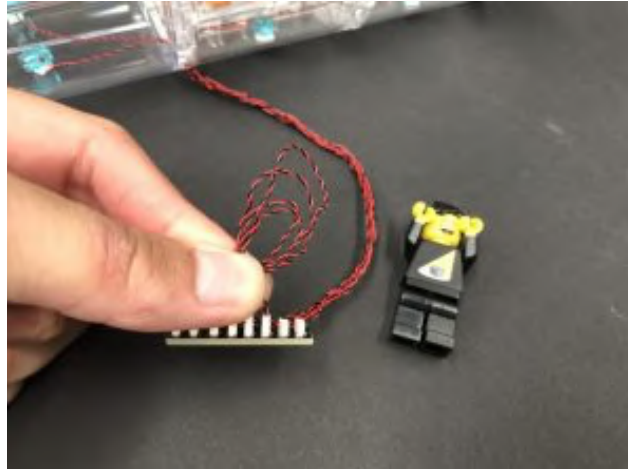
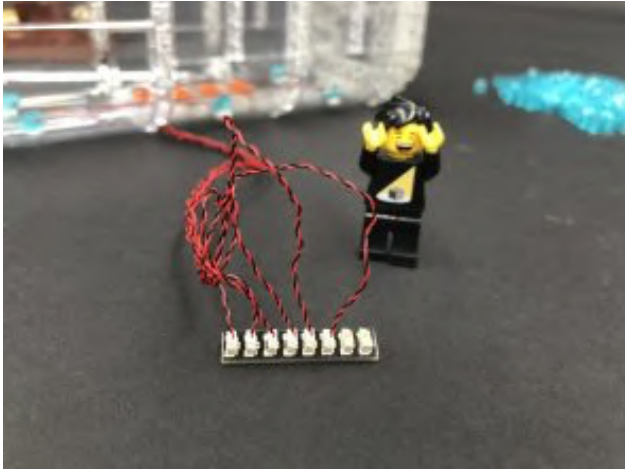




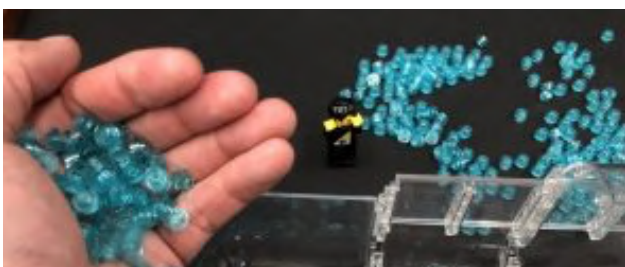
Twist/wind the six cables around each other all the way to the ends so they come together to form one larger cable, then starting with the shorter two cables, connect all six cables to the 8-Port Expansion Board.

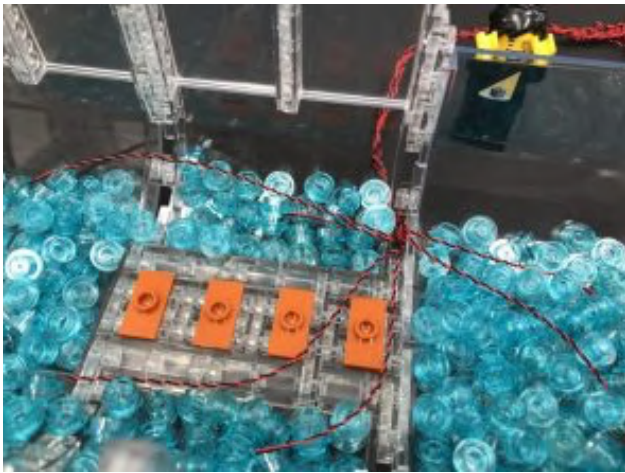
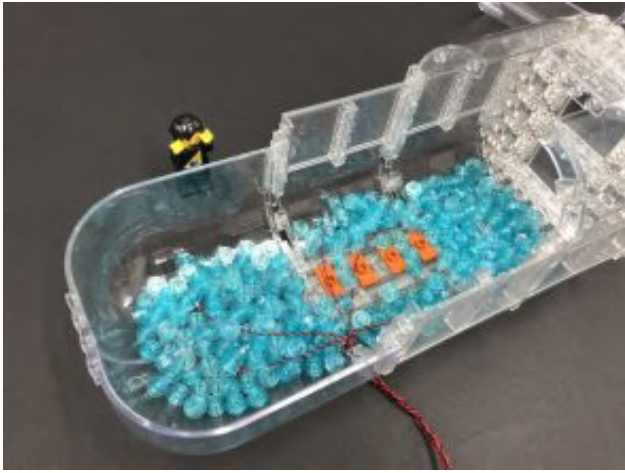
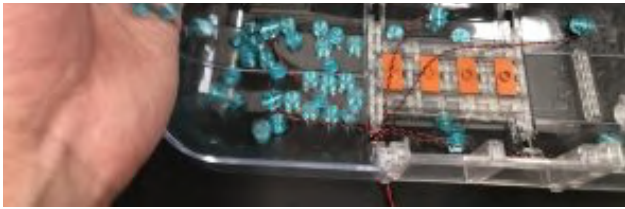


Group all the cables closest the expansion board and twist/wind them around the larger cable so they group together.

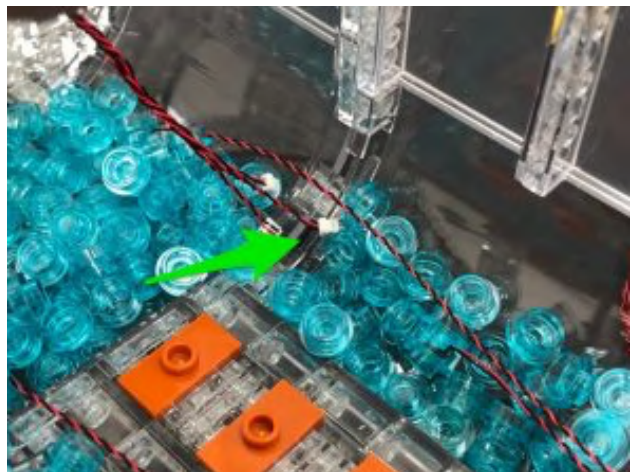


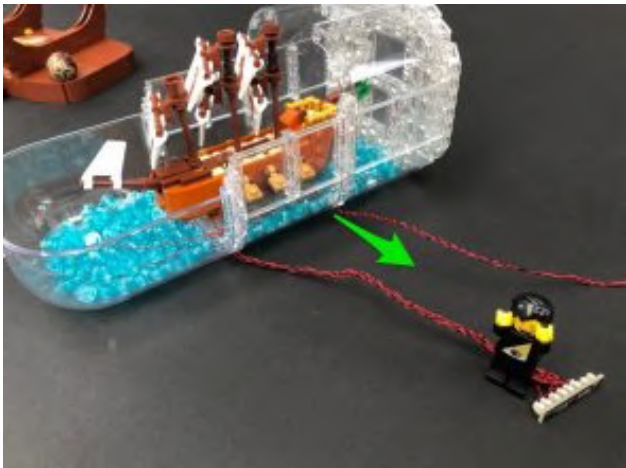
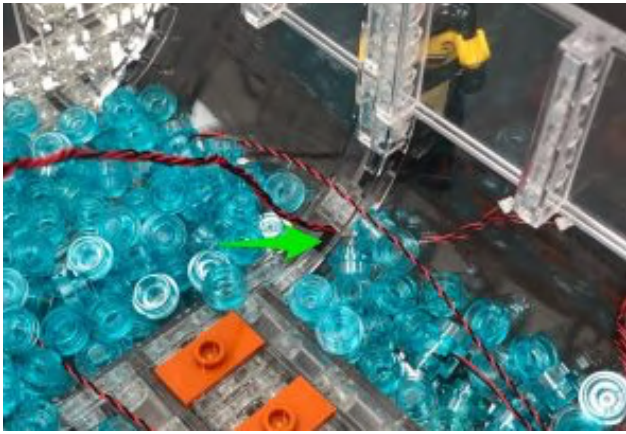
10.) Pour back in, all of the trans light blue round plates into the bottle. Spread the pieces out evenly to try and cover the cables inside, then turn the bottle back around to the front.



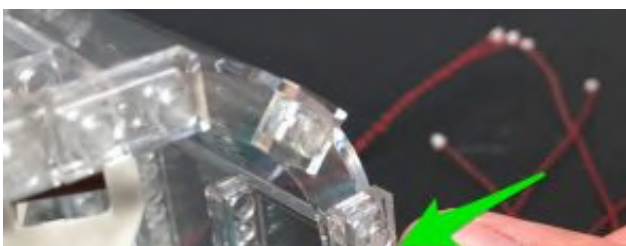
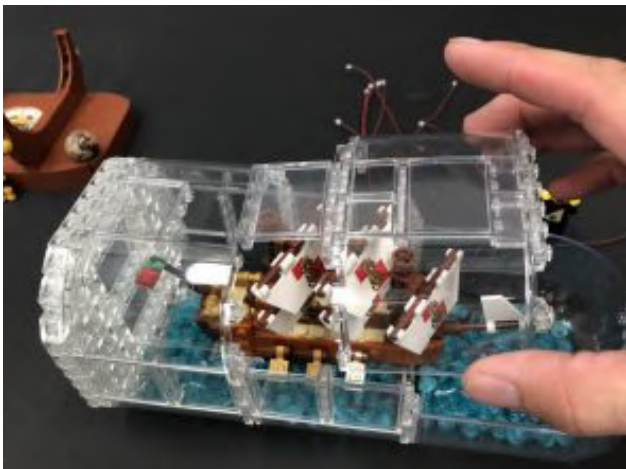


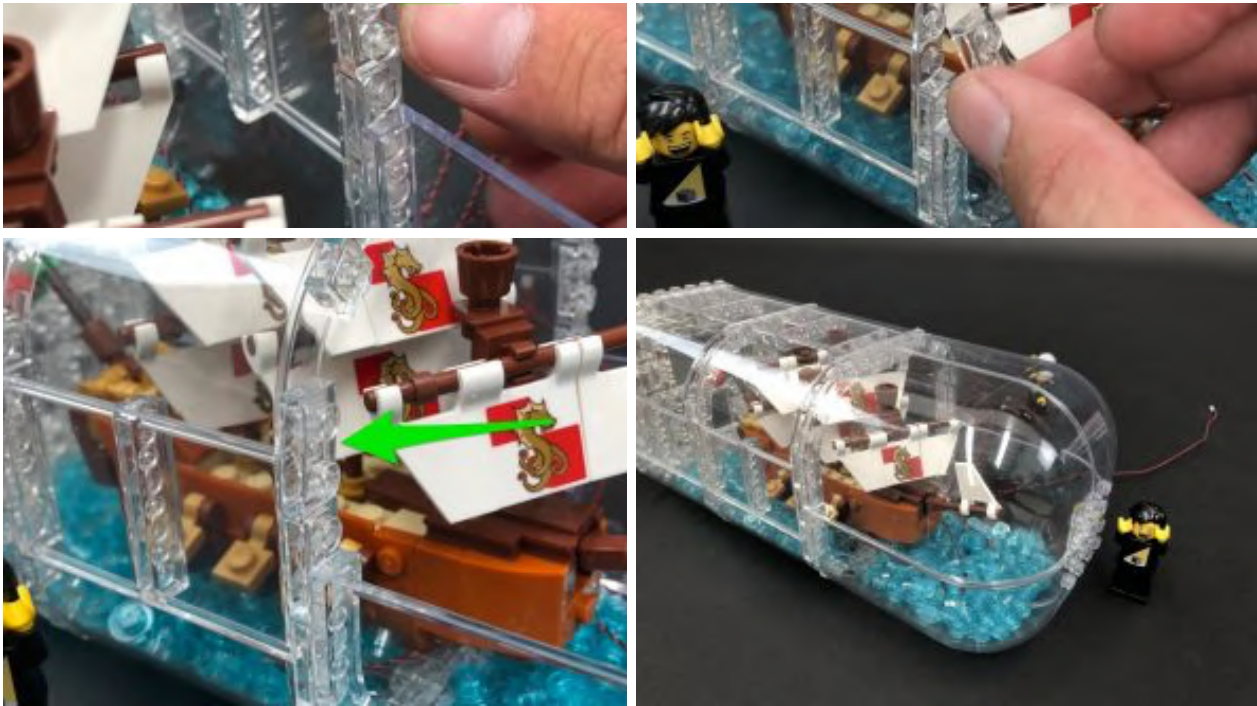
Take the ship and thread the group of three cables through the gap on the left of the blue bit light cables. Pull the cables all the way out from behind to then allow you to reconnect the ship back inside the bottle.



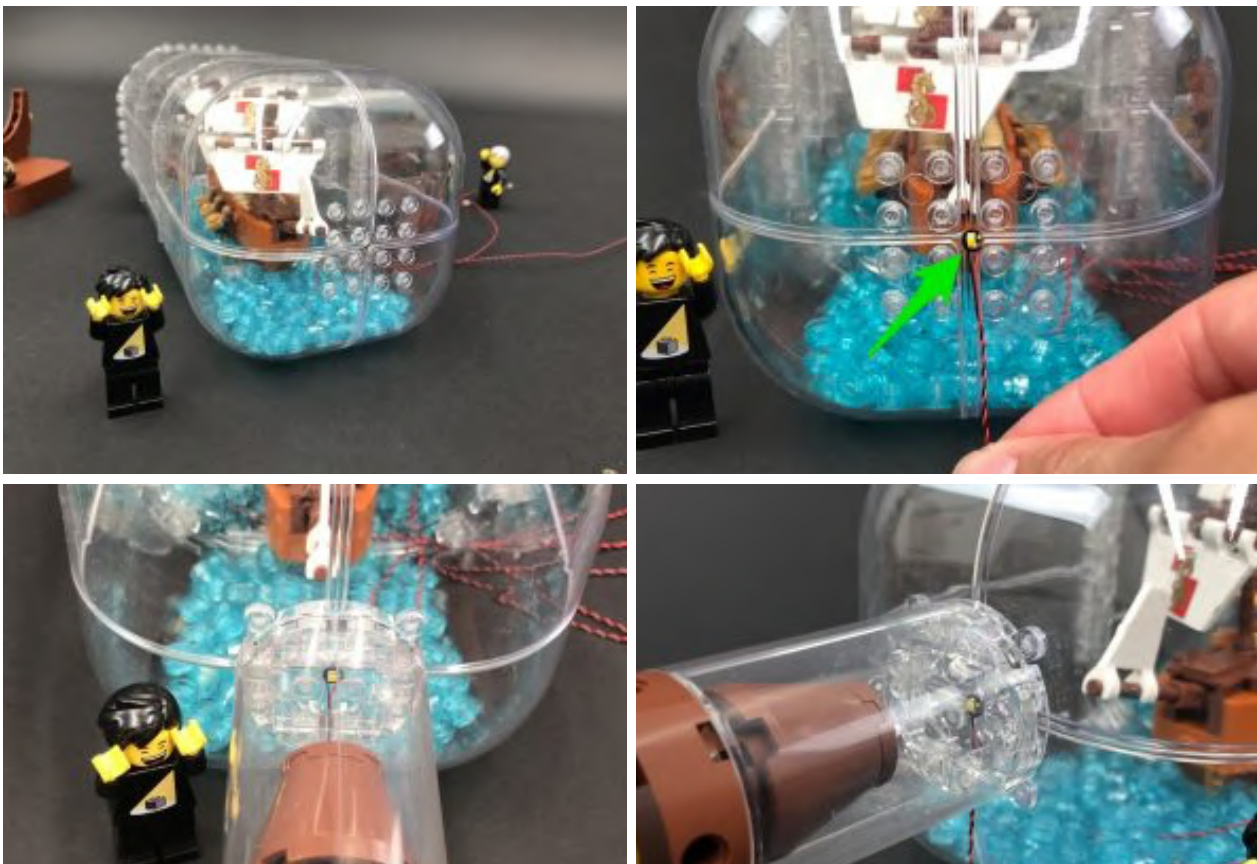


11.) Reconnect all the trans clear sections which make up main section of the bottle.



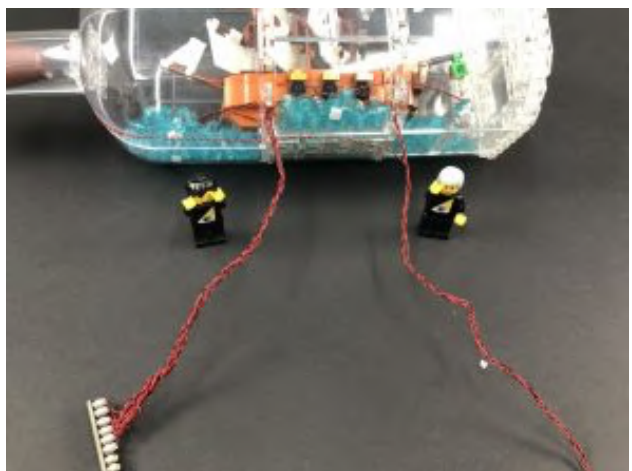
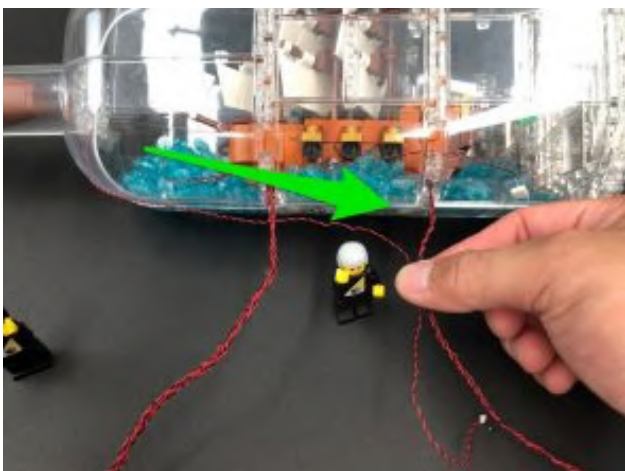
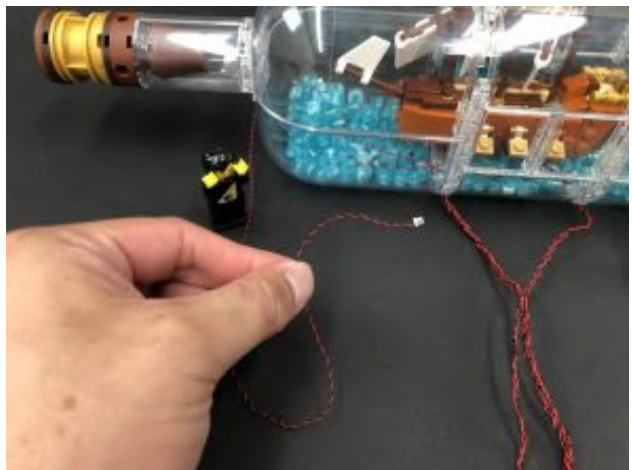


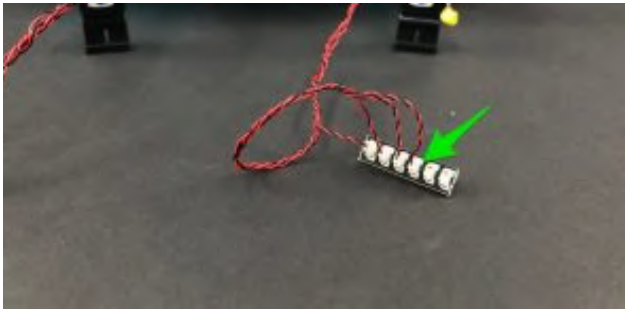
12.) Take a **White 30cm Bit Light** and with the cable facing down, place it over the centre of the studs on top of the main bottle section. Secure the Bit Light in place by reconnecting the bottle top section.



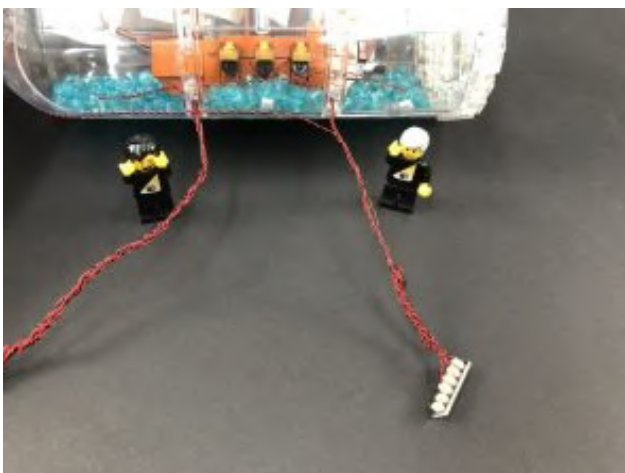
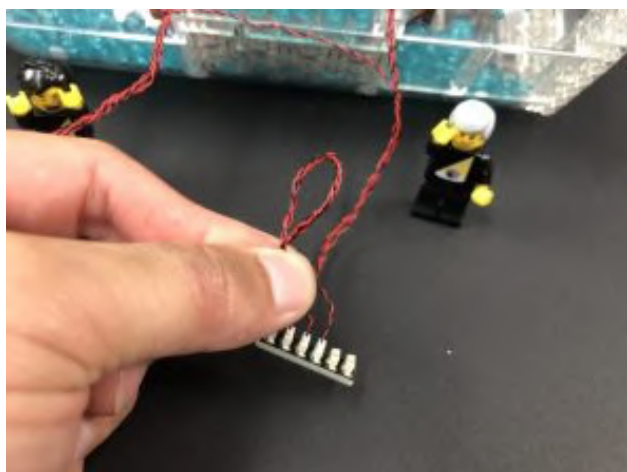


Bring the other end of the cable across to the right, then twist/wind it around the group of white 30cm bit lights (on the right side). Connect the bit light to the next port on the 6-Port Expansion Board.



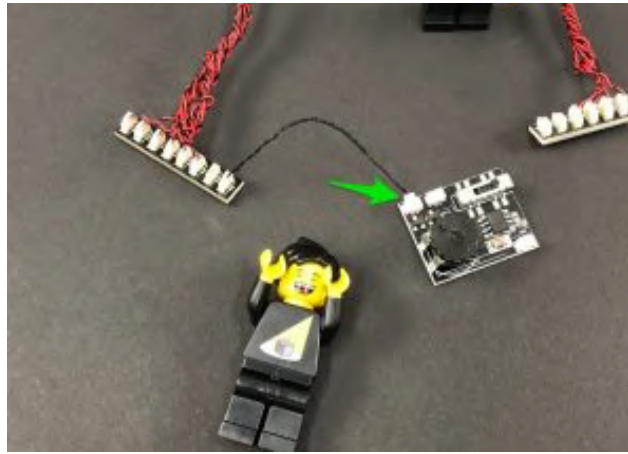
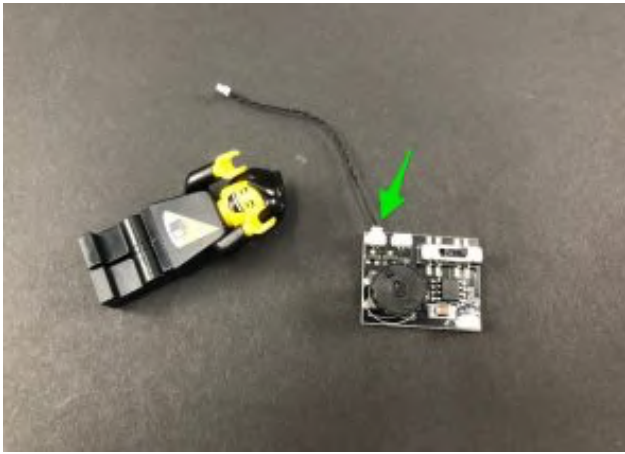


Twist/wind any remaining excess cables around the larger group of cables as shown below:

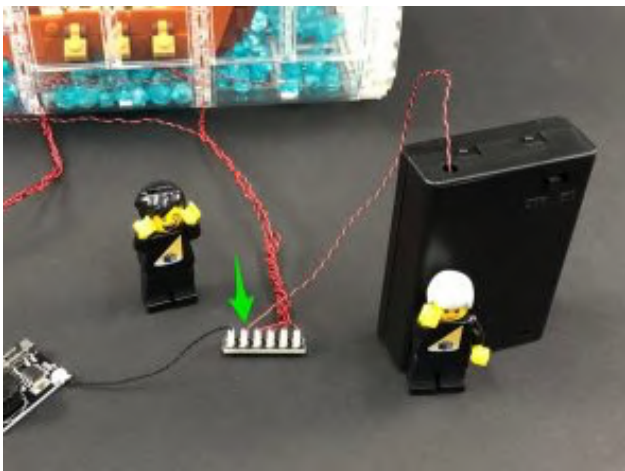
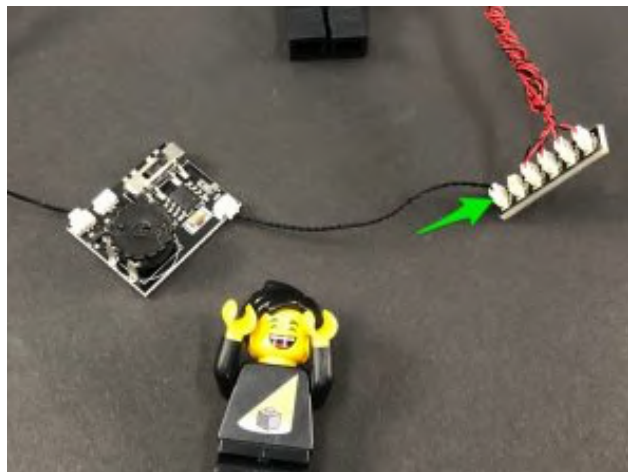
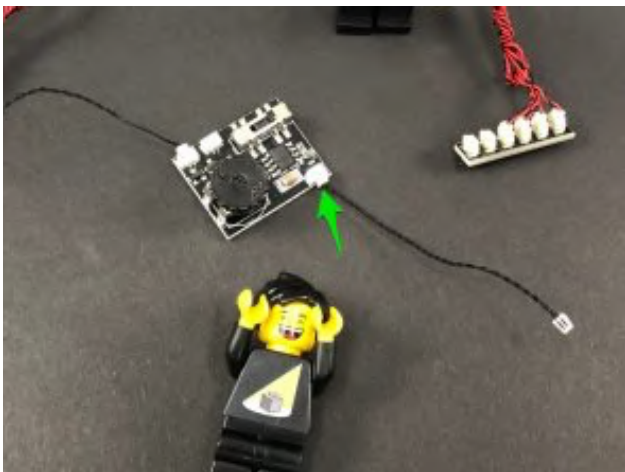


13.) Take a **Multi Effects Board** and connect a **5cm Connecting Cable** into one of the OUT ports (side with two ports). Connect the other end of the 5cm Connecting Cable to a spare port on the 8-Port Expansion Board.

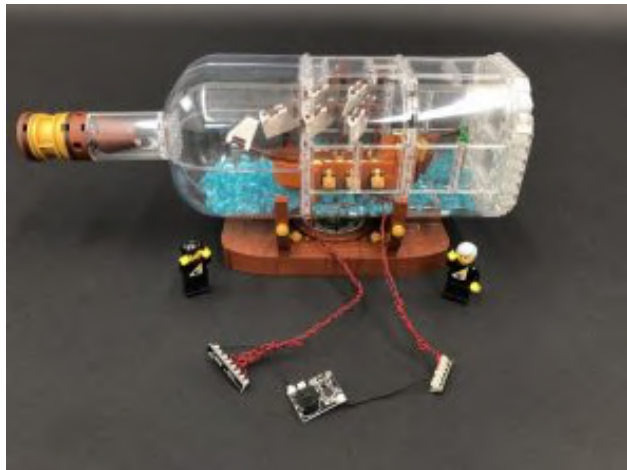
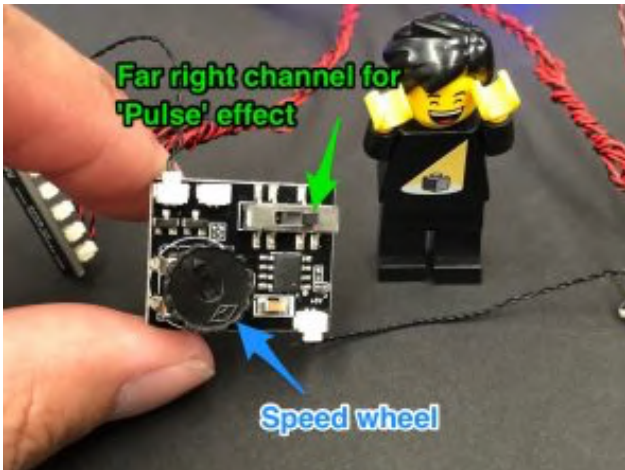




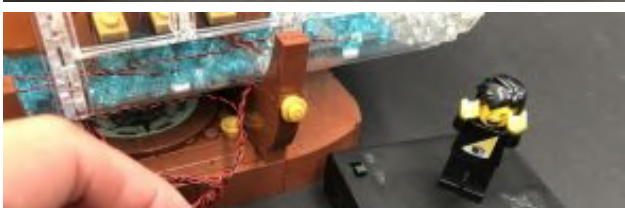
Take another **5cm Connecting Cable** and connect it to the IN port on the Multi Effects Board (side with one port). Connect the other end of the 5cm Connecting Cable to a spare port on the 6-Port Expansion Board, then connect the AA Battery Pack to the remaining Port.

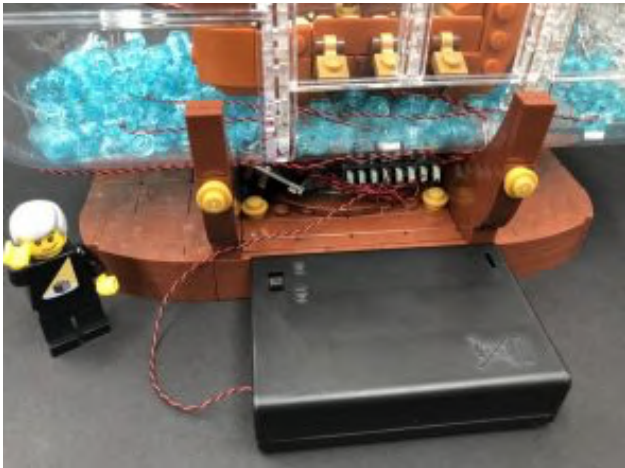


14.) We can now set the effect we want. For a slow effect to represent 'waves of the sea', we chose to the 'Pulse' effect. Flick the switch to the far right for 'Pulse', then turn the speed wheel all the way to the left for the slowest speed. Alternatively, you can set whichever effect and speed you desire by simply changing the channel switch and adjusting the speed wheel. Once you are happy with your desired effect, place the bottle back on top of the bottle stand with the back facing toward you still.



Twist/wind the two larger cables together then fold up the cables so they can be neatly hidden underneath the bottle in between the stand and bottle. Neatly place the AA Battery Pack to cover up the gap then turn the bottle around to the front.





This finally completes installation of the Light My Bricks Ship in a Bottle Light Kit. We thank you for purchasing this product!

