

# Steamboat Willie #21317 Remote Controller Version Lighting Kit

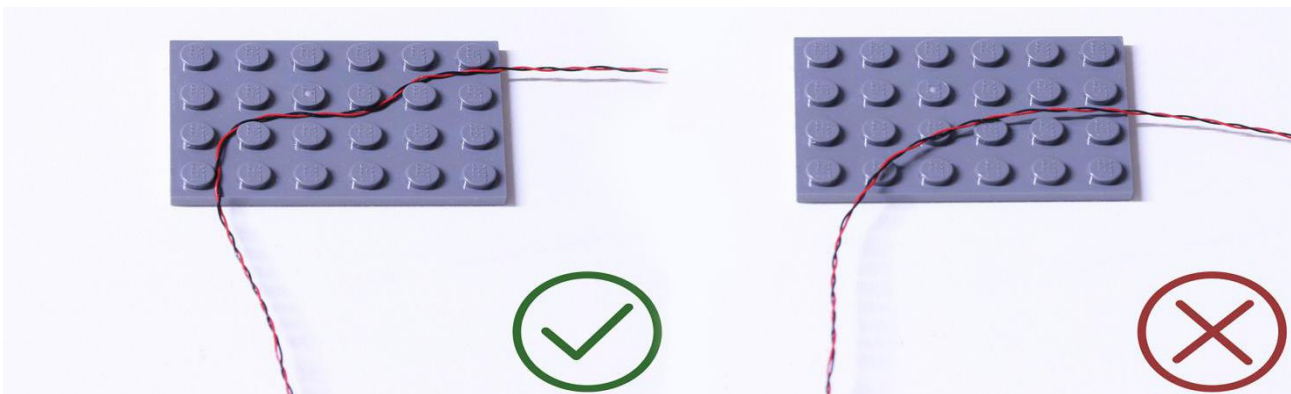
## Package contents:

- 2 x 15cm Blue Dot Lights
- 11 x 15cm Warm White Dot Lights
- 1 x 30cm Warm White Light
- 1 x 5cm Connecting Cable
- 2 x 30cm Connecting Cables
- 1 x 8-port Expansion Board
- 2 x 6-port Expansion Boards
- 1 x USB Power Cable
- 1 x Remote Control Board
- Extra LEGO Pieces

### Note:

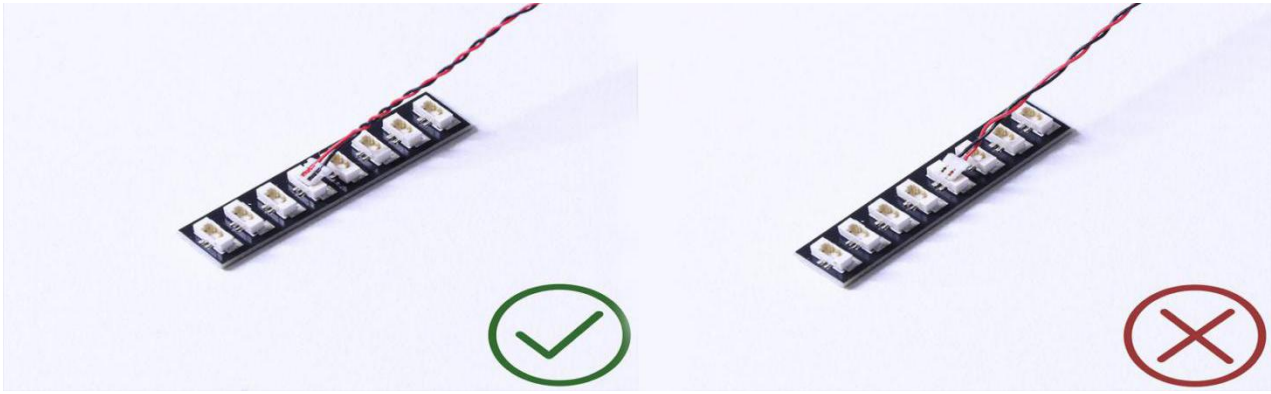
Place wires on the surface or under the LEGO building blocks.

The wire can be placed between the building blocks or under the block, but they should be placed between the studs correctly.

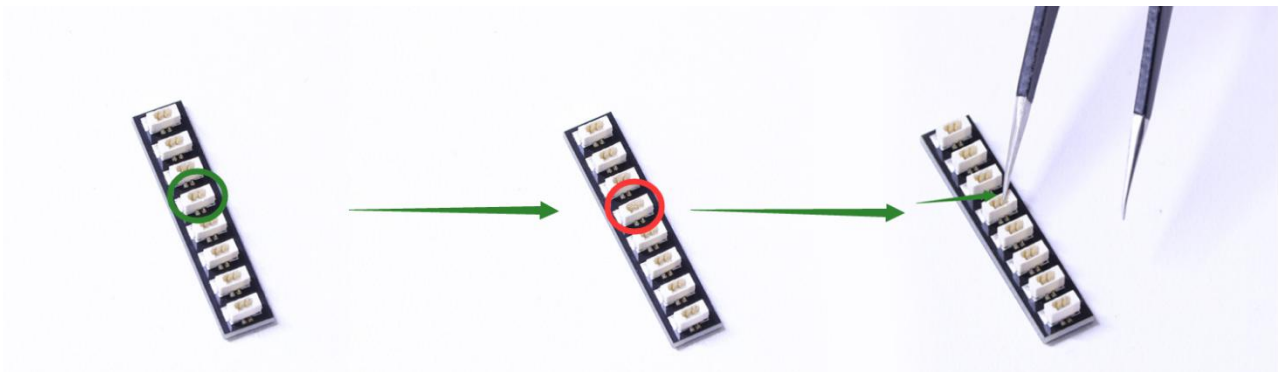


Insert the connectors to the ports.

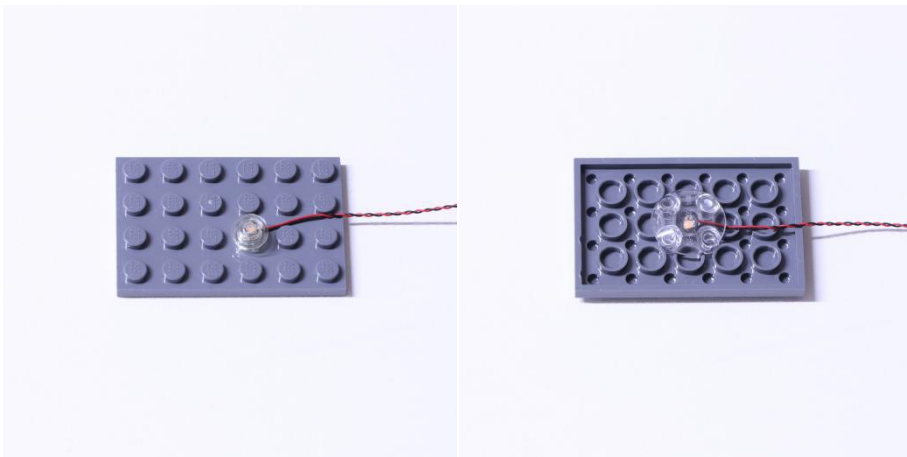
Be careful when you are operating, there's only one correct way to insert, make sure the expansion board is upward, find the soldered "=" sign on the left of the port. When you are inserting, the side which the wires can be seen should be faced to the "=" sign and if you feel hard to insert, please stop, and don't force it, for that may result in bent pins inside the port or overheating of the expansion board.



At this point, use the tweezers to straighten the bent pins.

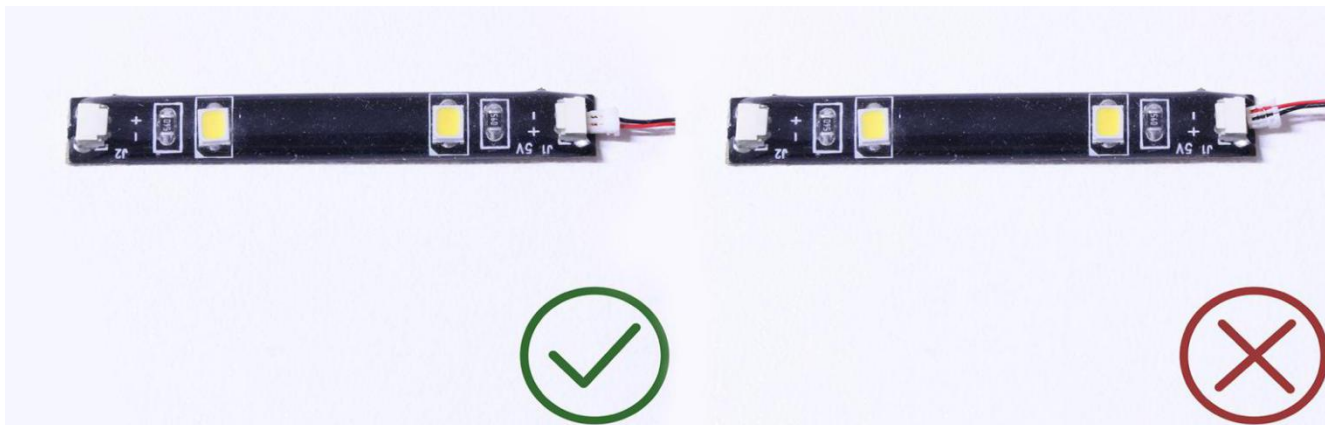


When installing dot lights, make sure they are correctly placed (Yellow LED package is exposed). You can put them either on the top of the studs or between studs.

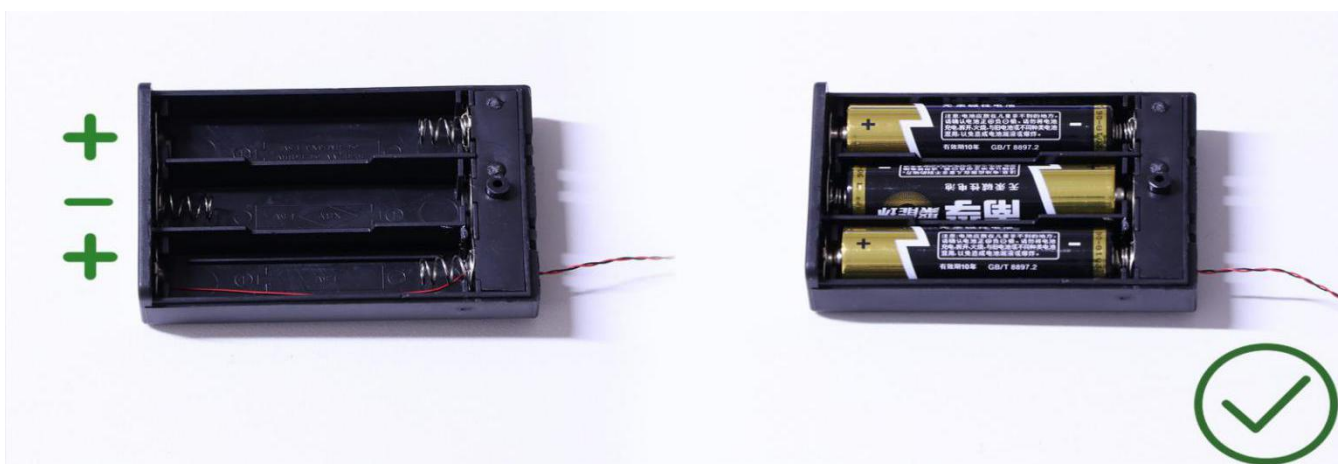


## Connecting cable connectors to Strip Lights

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.



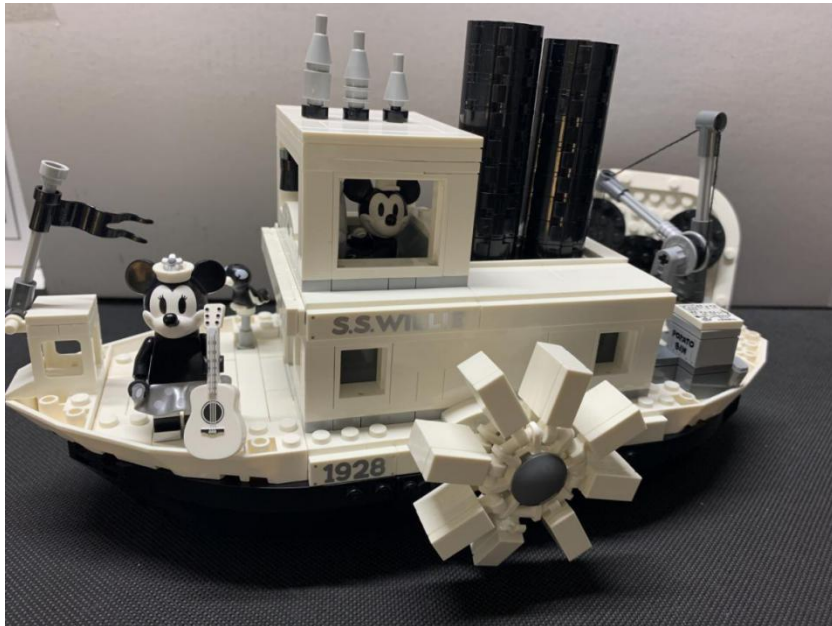
Finally, please pay attention to the positive and negative terminals of the battery when installing the battery case.



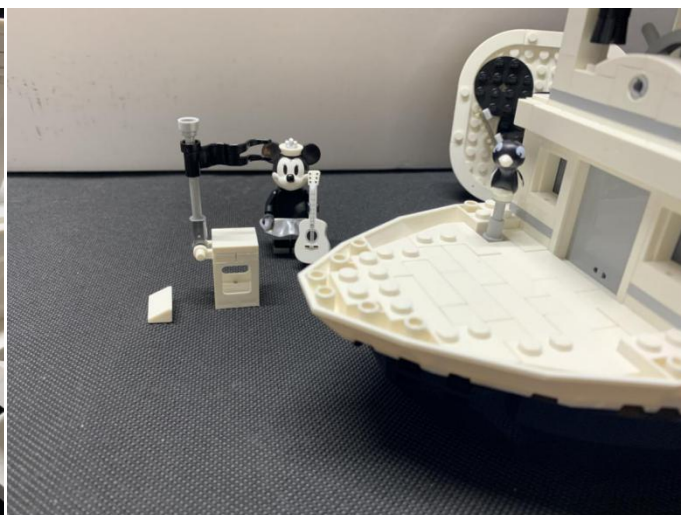
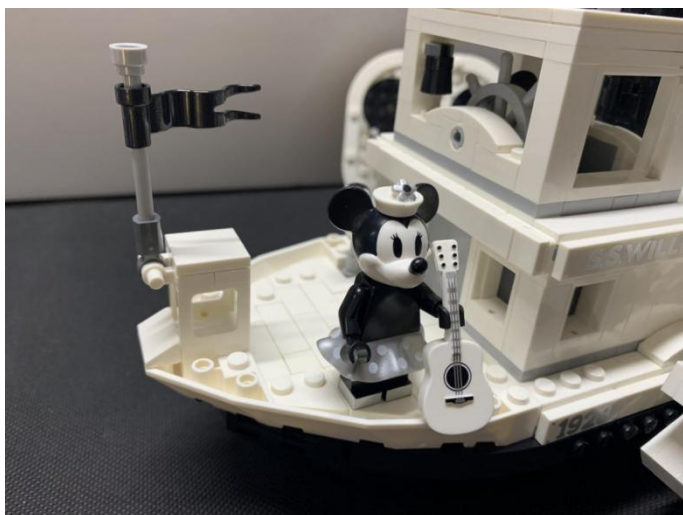
OK, Let's Begin!

## Instructions for installing this kit

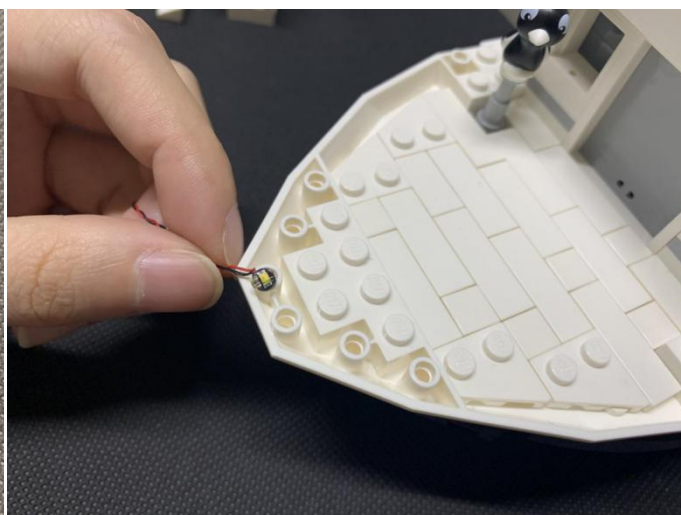
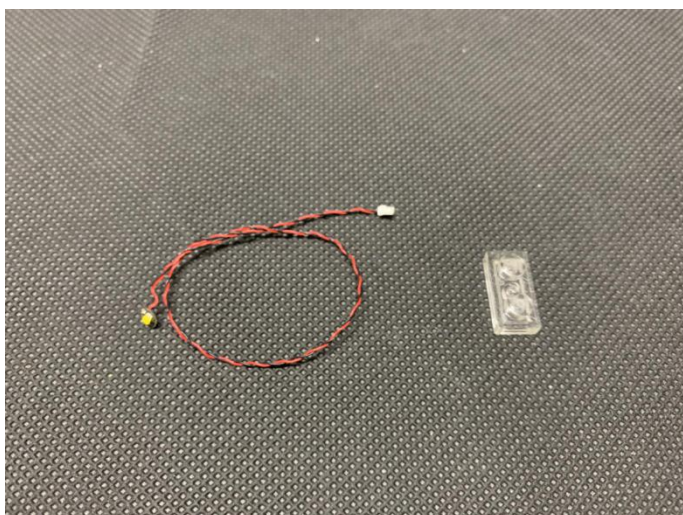
Start from installing lights for the Steamboat Willie

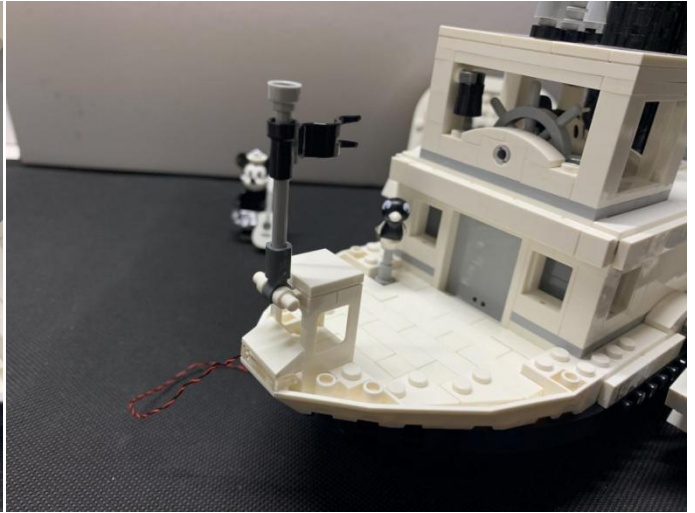
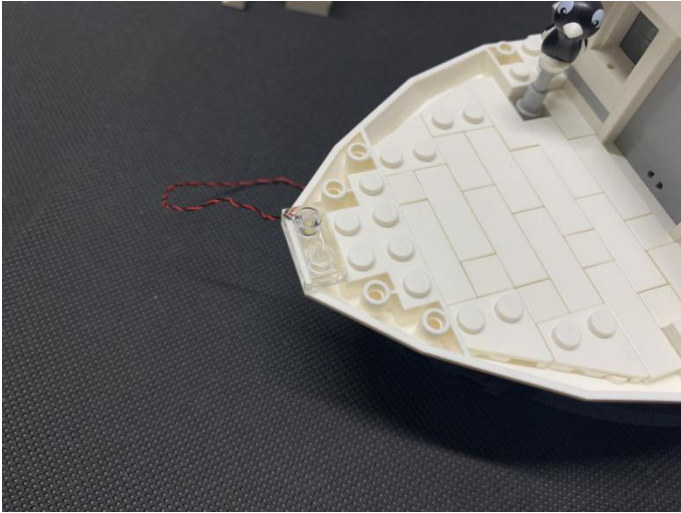


Begin with the head. Remove the flag and the following pieces

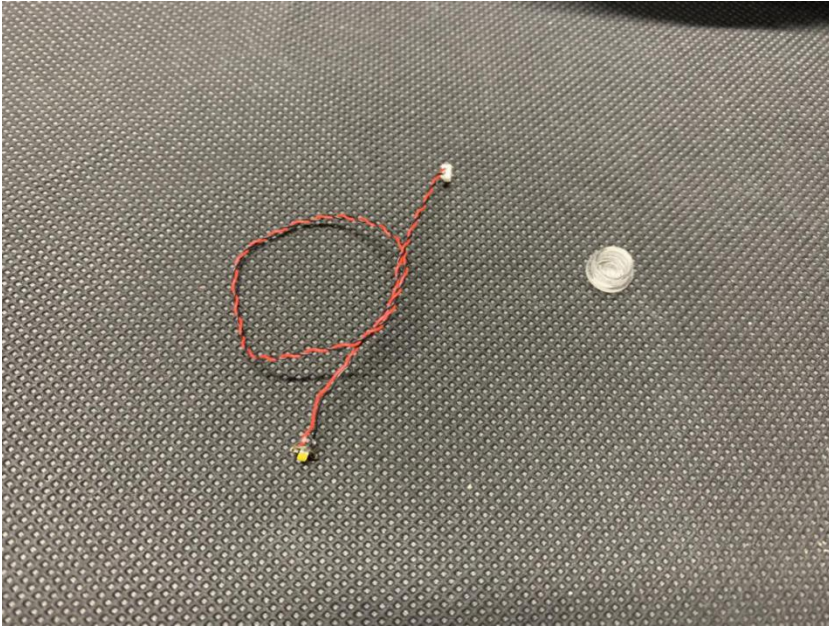


Take a 15cm warm white dot light, a trans 1x2 plate, with lighting part facing up, secure the light to the following place by connecting the trans plate over. Connect the white 1x2 slope plate over the trans plate. Reconnect other pieces

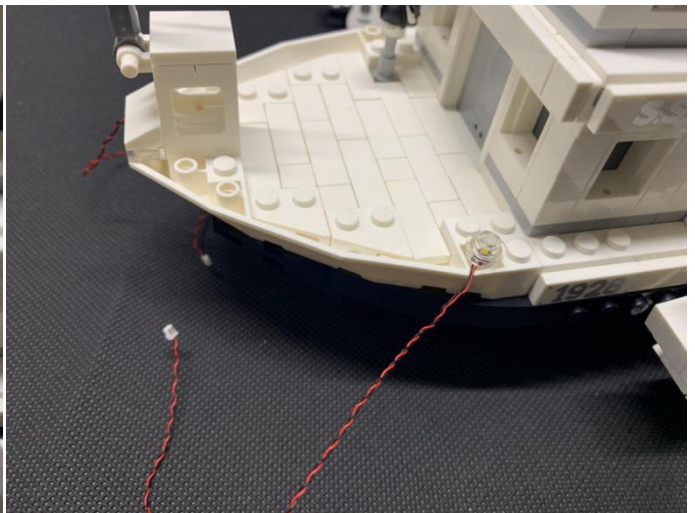
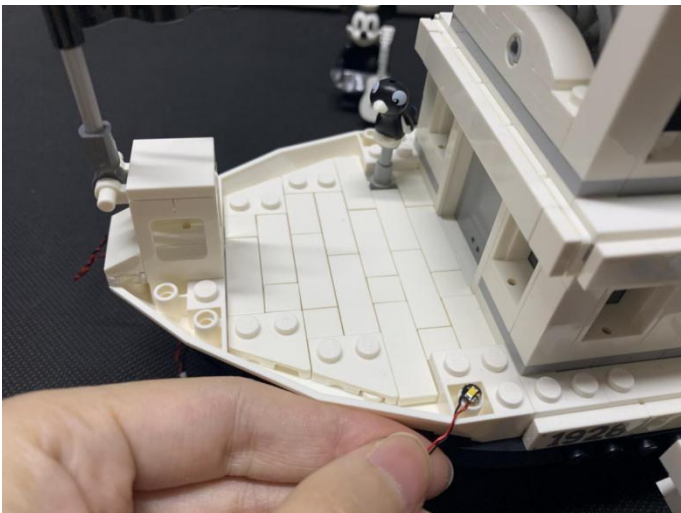




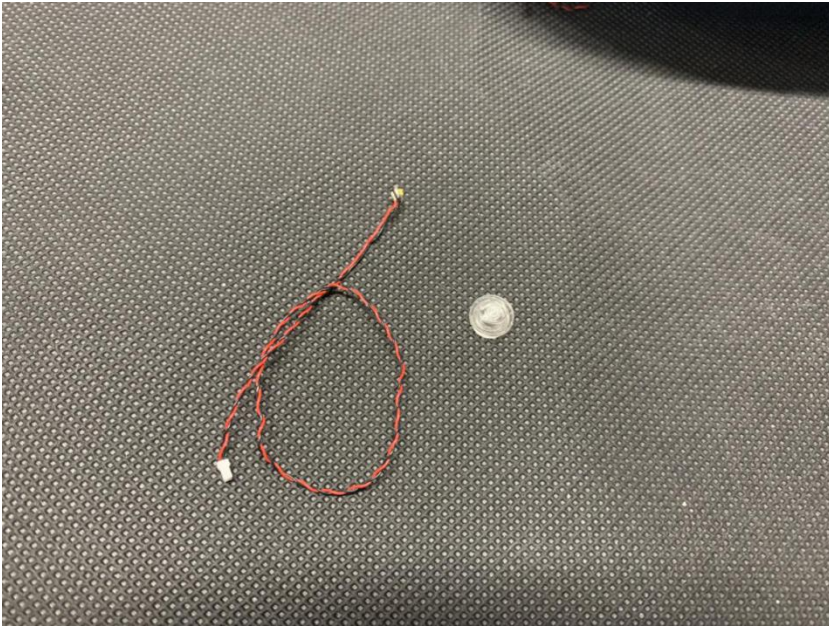
Take a warm white 15cm dot light, a white 1x1 trans round plate



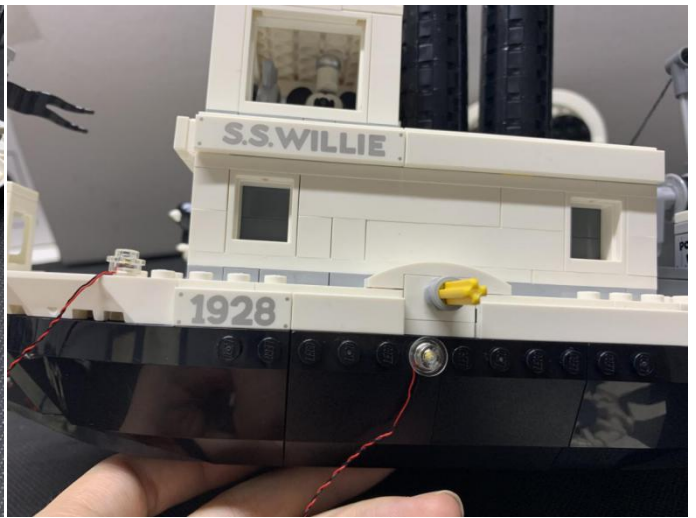
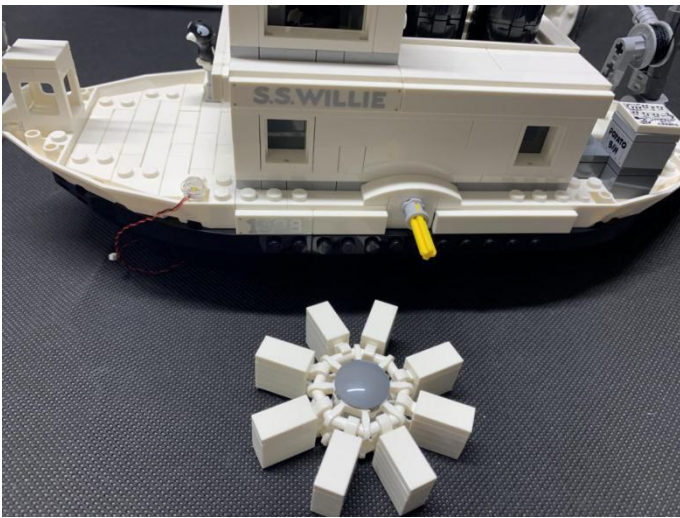
Connect the light to the following place



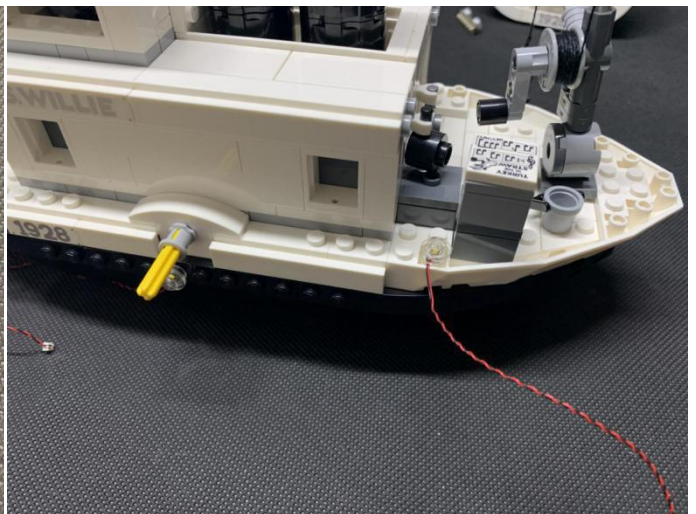
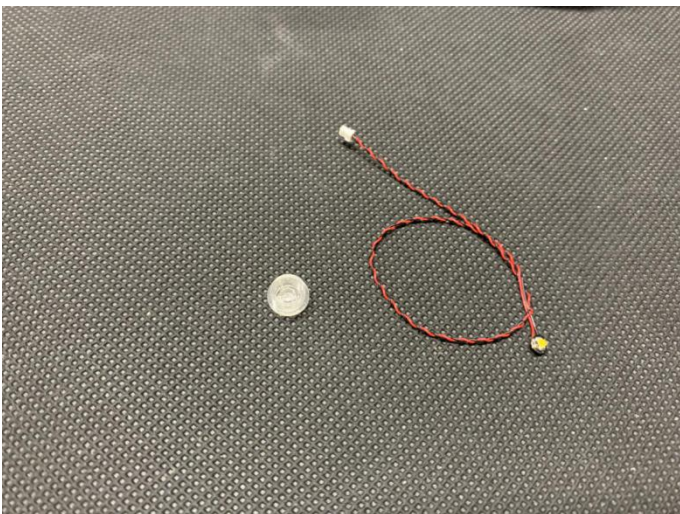
Take a warm white 15cm dot light, a trans 1x1 round plate



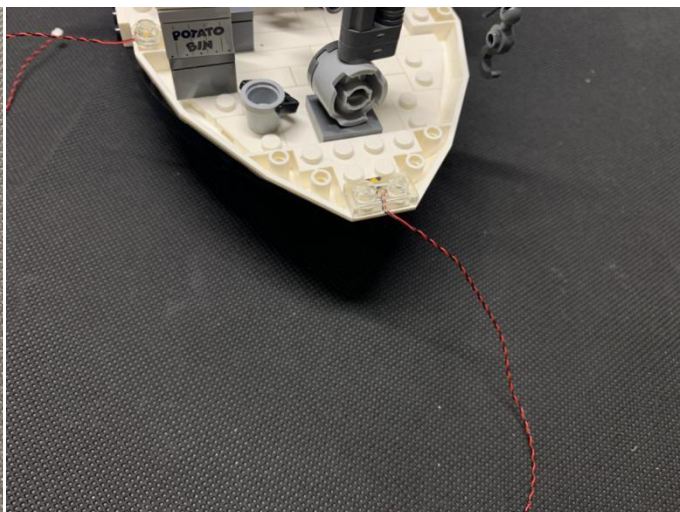
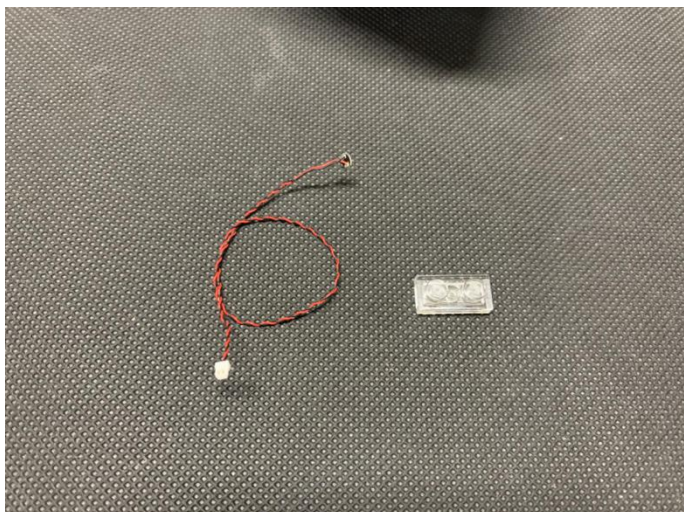
Remove the wheel from one side of the boat, connect the light to the following black piece behind the wheel. Note: do not remove the cross joint while you're removing the wheel.



Similarly, take another warm white 15cm dot light, a trans 1x1 round plate. Connect them to the tail of the boat at the same side



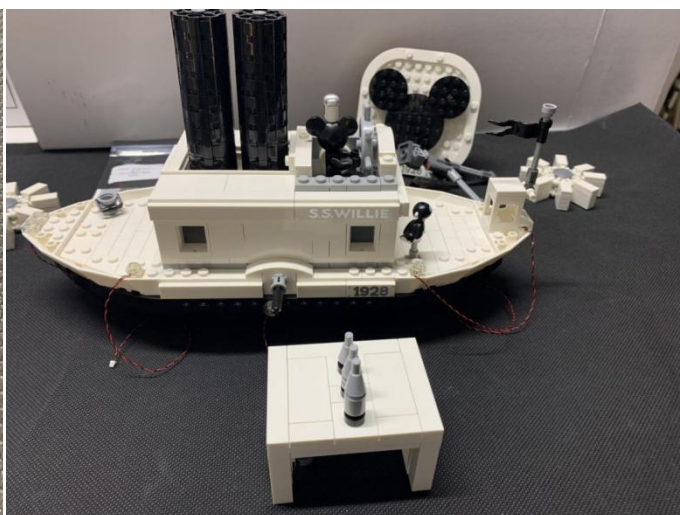
Take a warm white 15cm dot light, a trans 1x2 plate, turn the boat to its back, connect the light to the following place



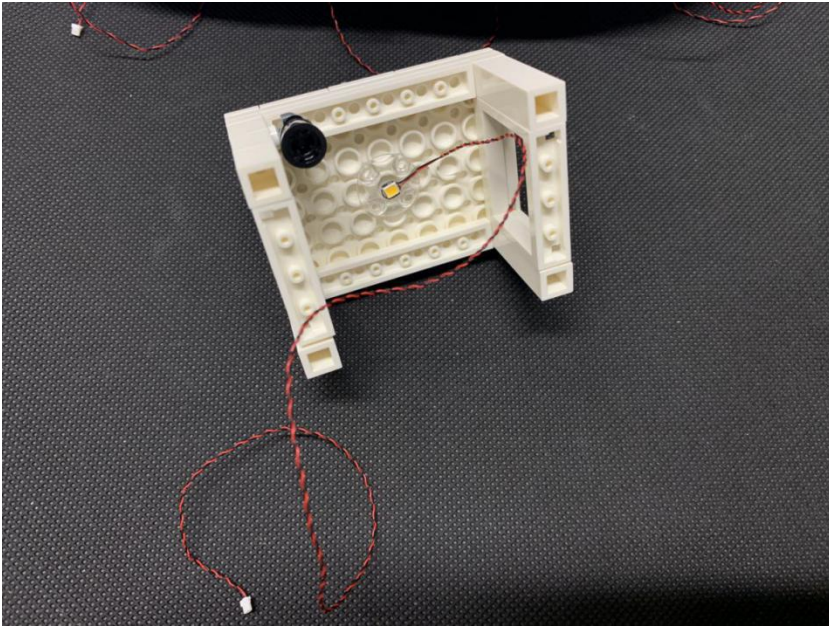
Turn to the other side. Take 3 warm white 15cm dot lights, 3 trans 1x1 round plates, repeat the previous steps to install the lights to the following places



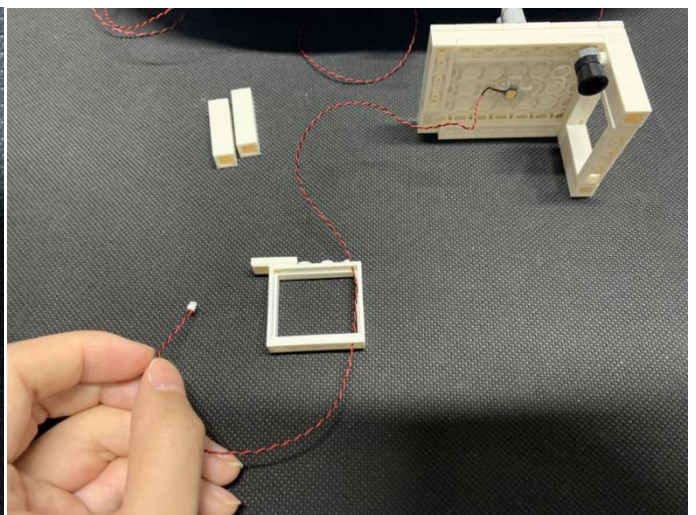
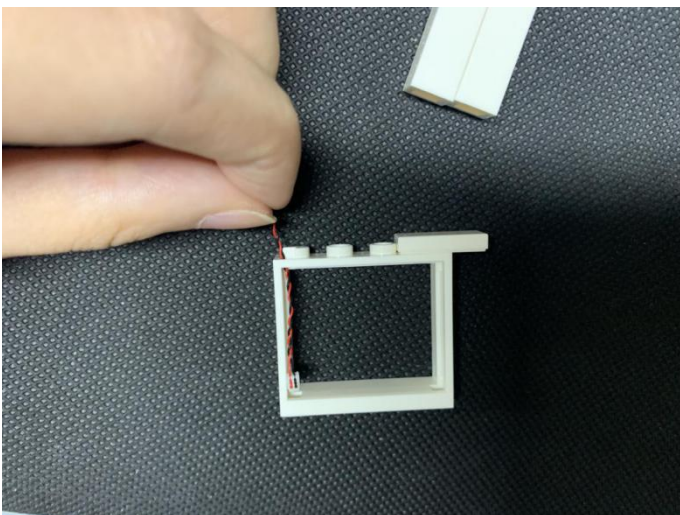
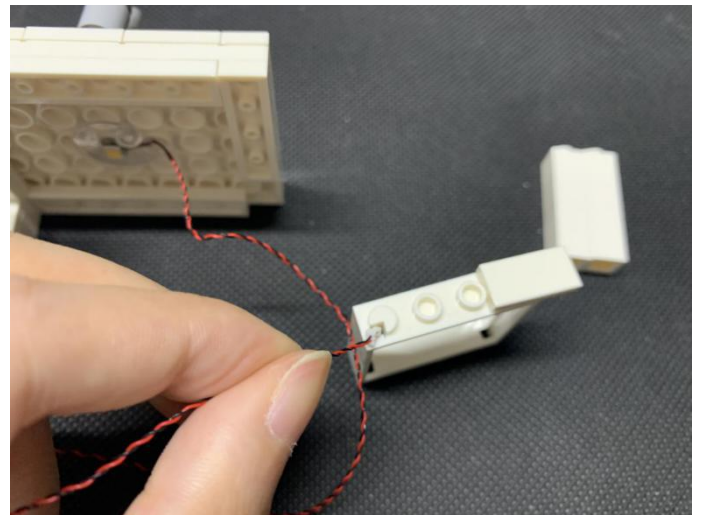
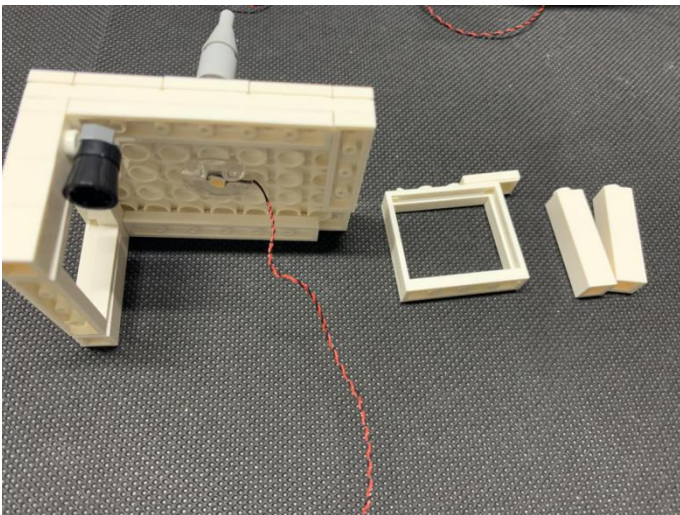
Take a warm white 30cm light, a trans 2x2 round plate. Remove the top from the boat.



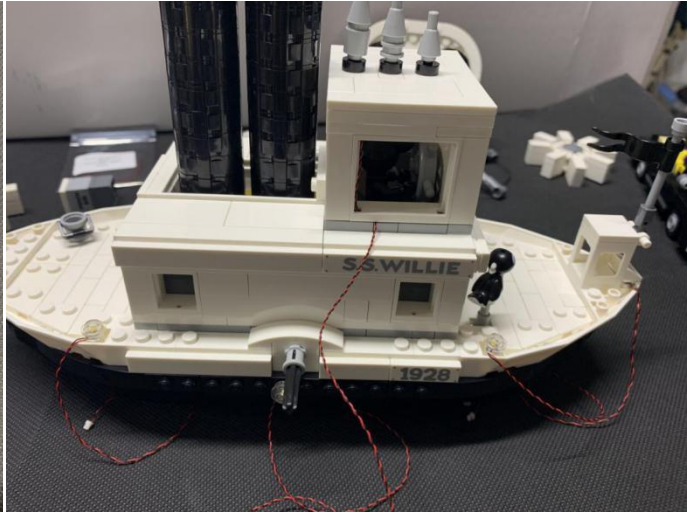
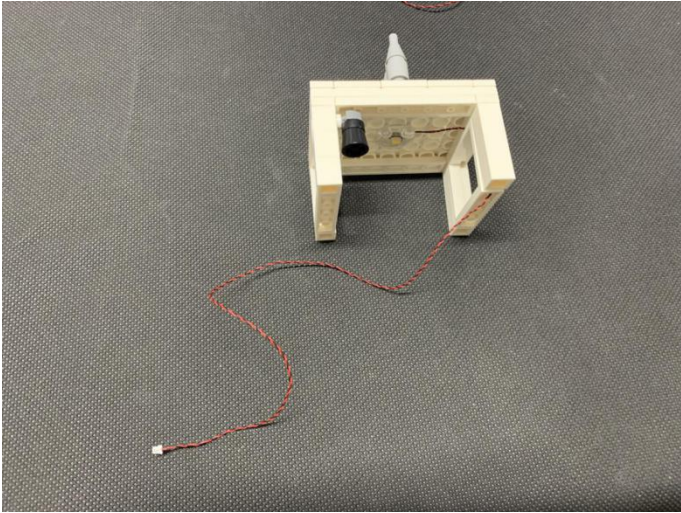
Connect the light to the top part we just removed, as per below



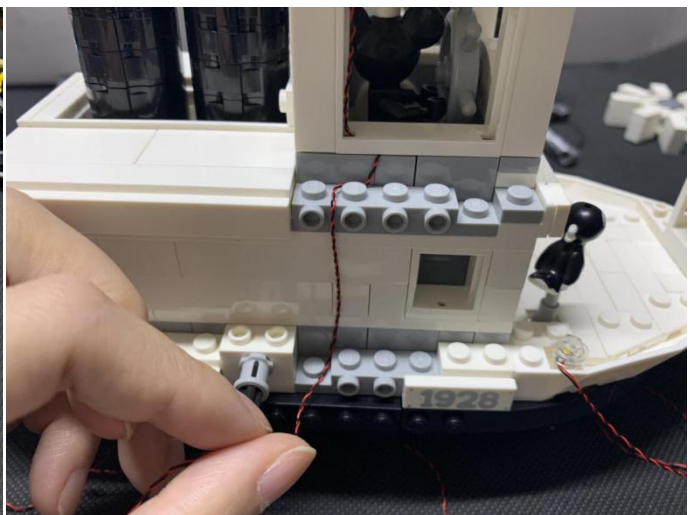
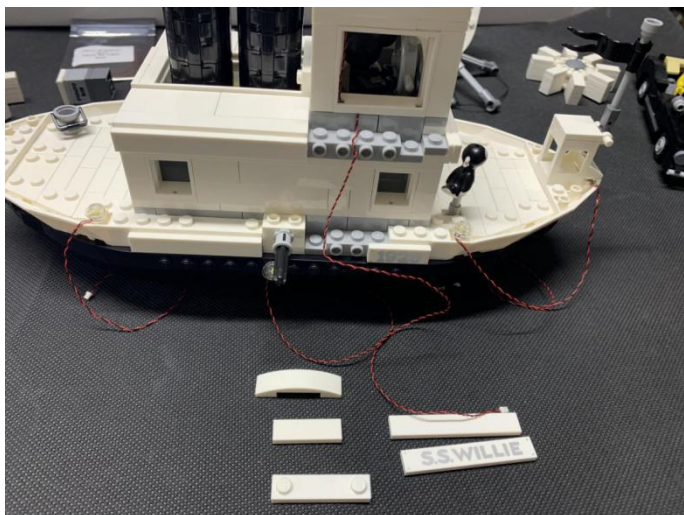
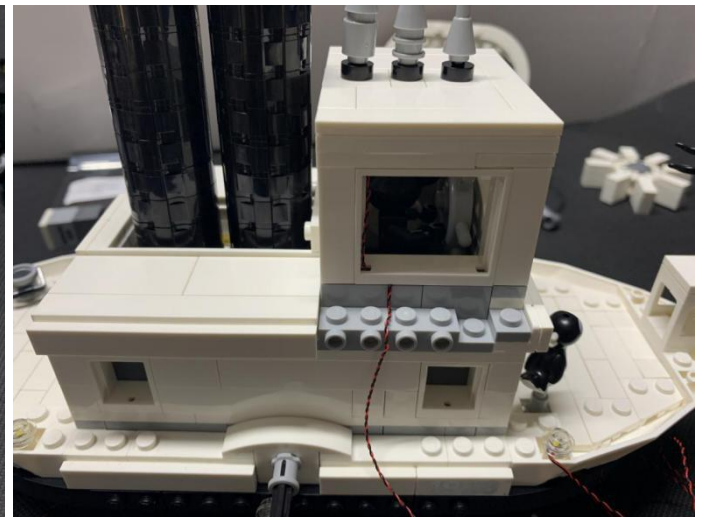
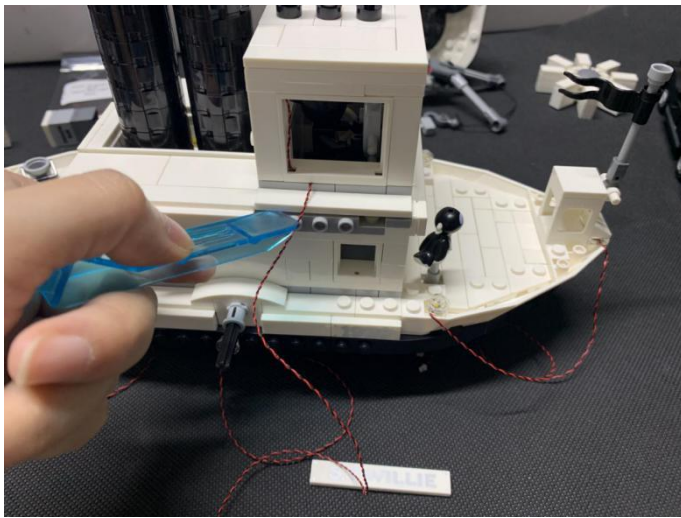
Remove one side of the window pieces, thread the connector of the light through the following holes on the piece, pull it out



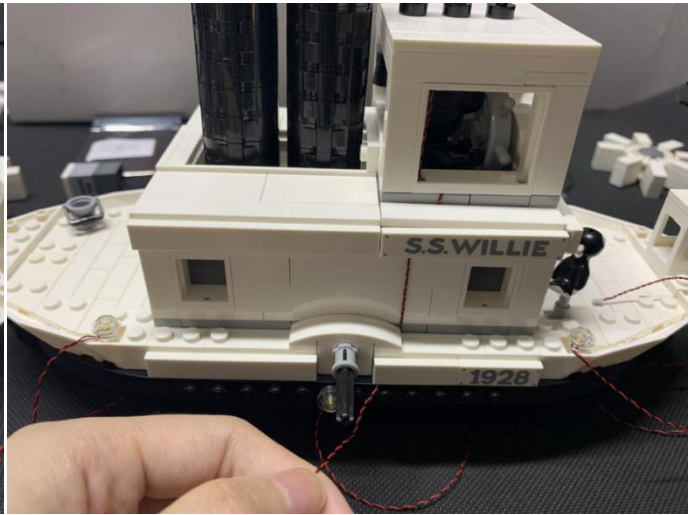
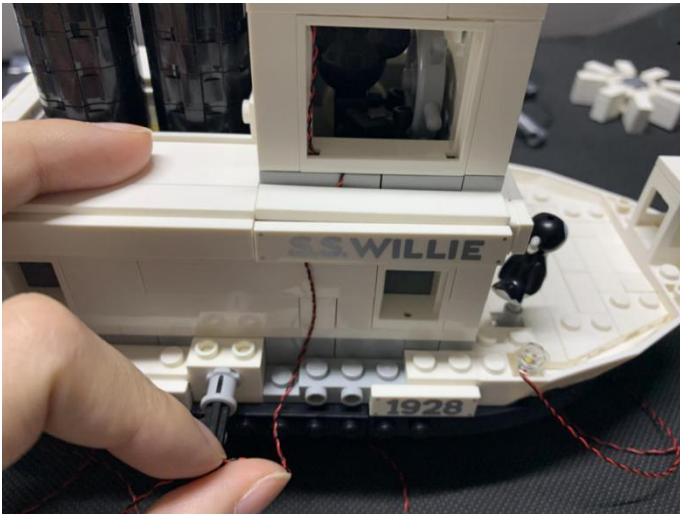
Reconnect the top part, place the cable of the light aside



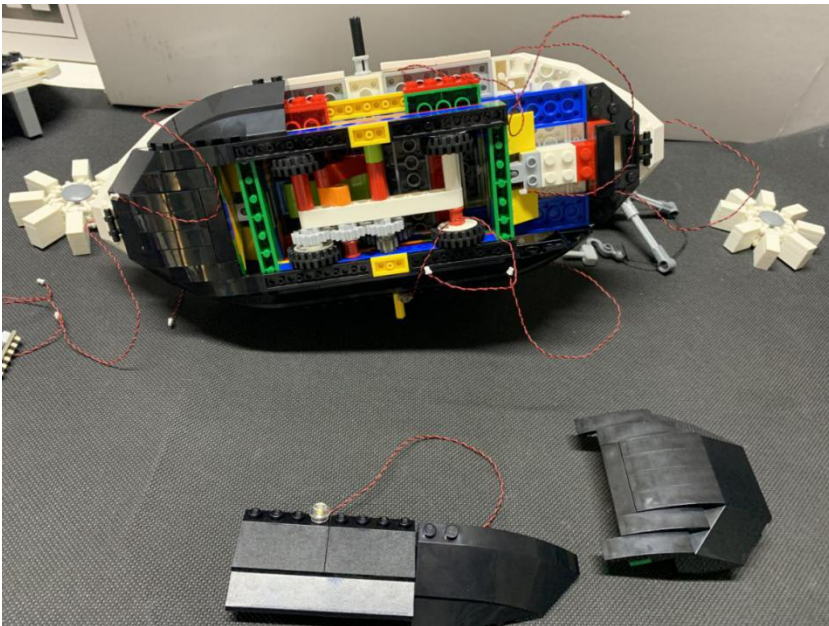
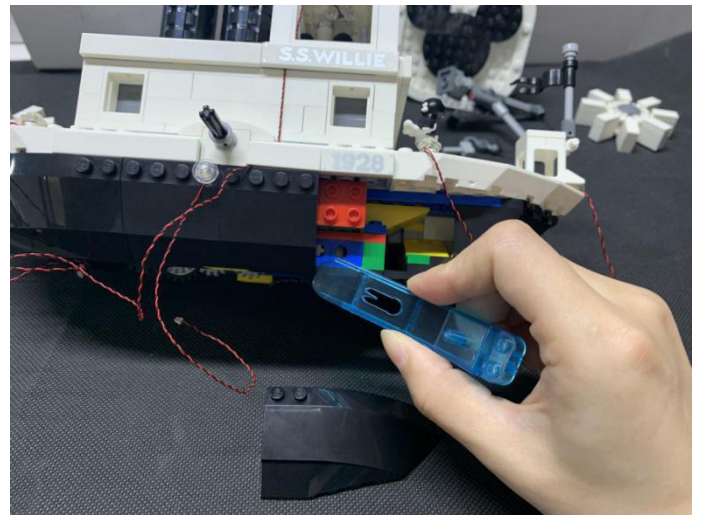
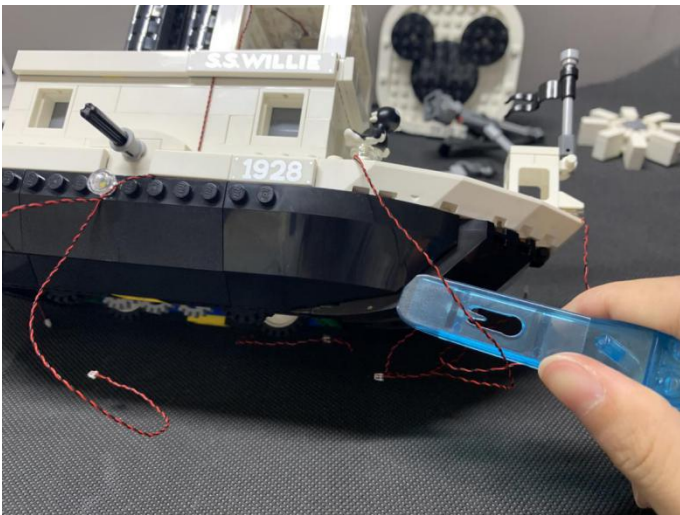
Remove the following white plate, pull the cable toward the bottom of the boat, place the cable in between studs.



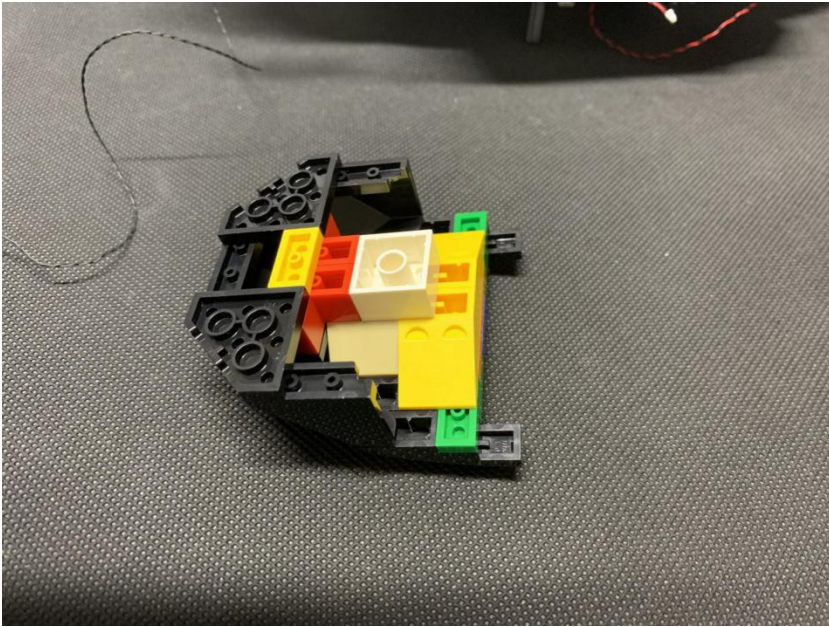
reconnect the plates, hiding the cable underneath.



Turn the boat over to its side, remove the following black pieces from the bottom of the boat



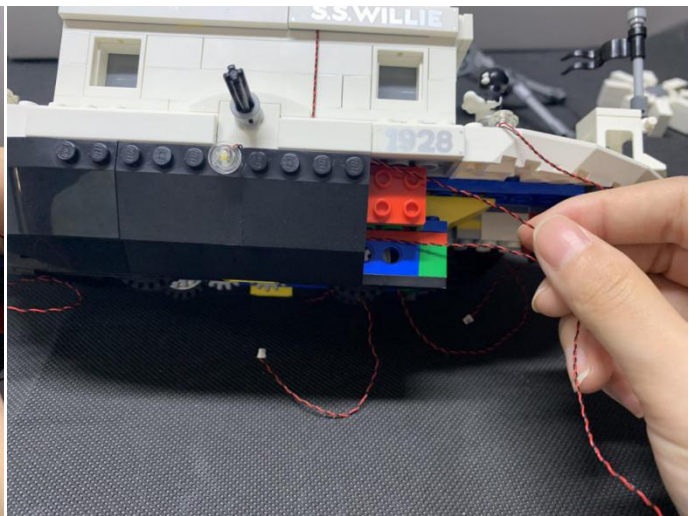
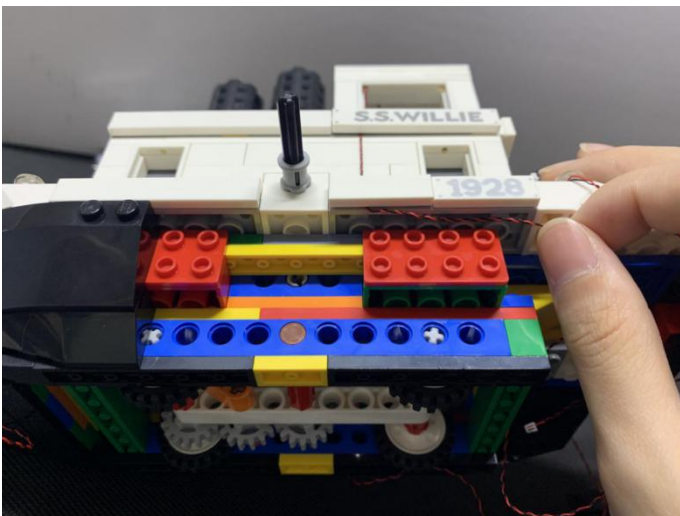
Remove the following piece from the head of the boat



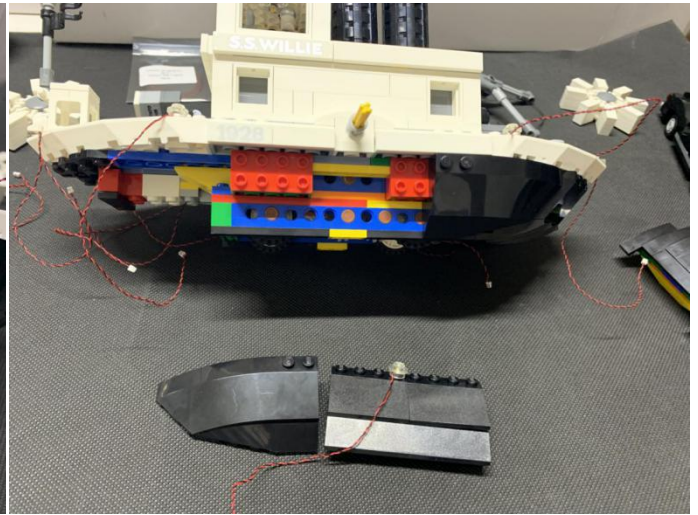
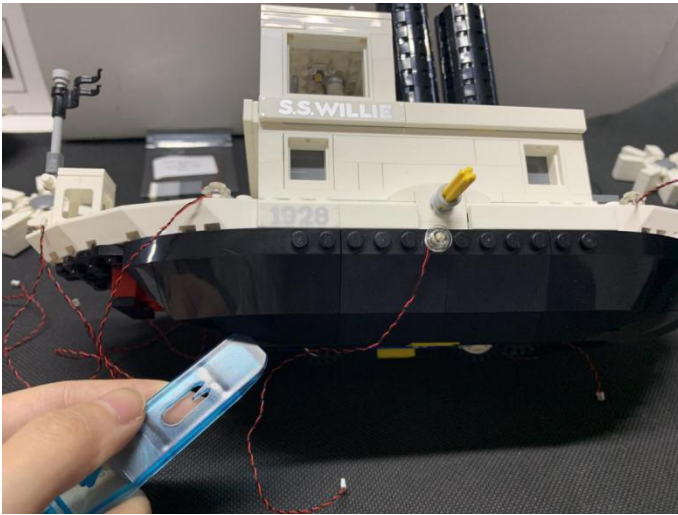
Pull the cable of the following light to the back of the plate



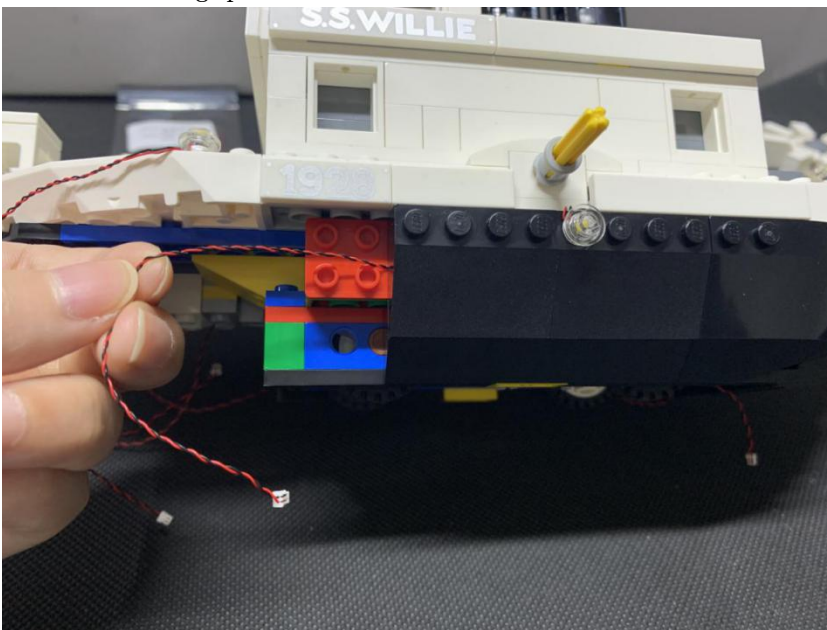
Pull the cable of the light toward the head of the boat, reconnect the black piece, place the cable in between studs



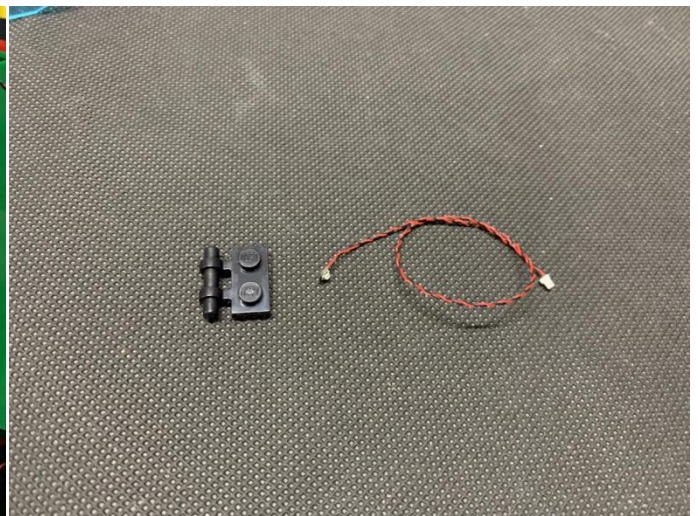
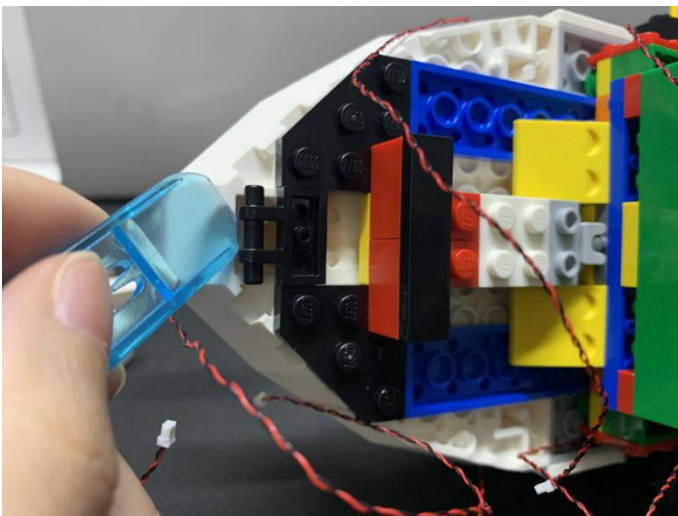
Turn to the other side of the steam boat, remove the following black pieces



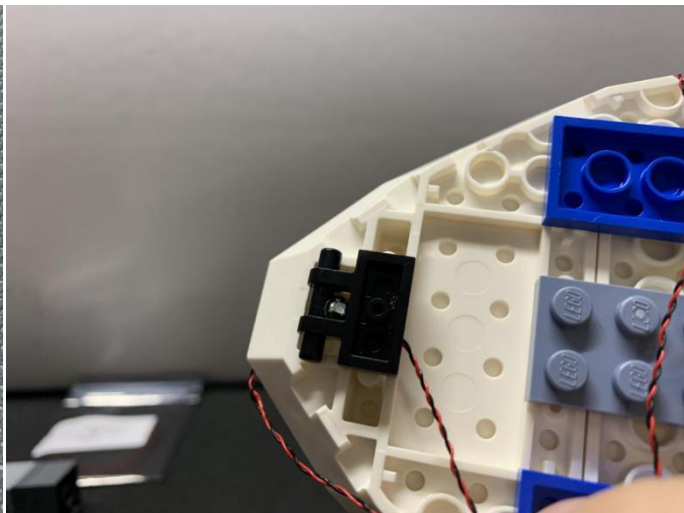
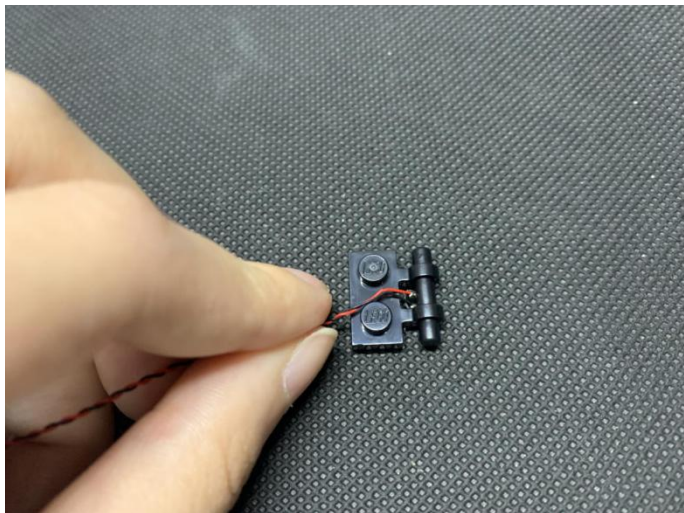
Place the cable of the light from the black piece underneath in between studs, reconnect the following pieces



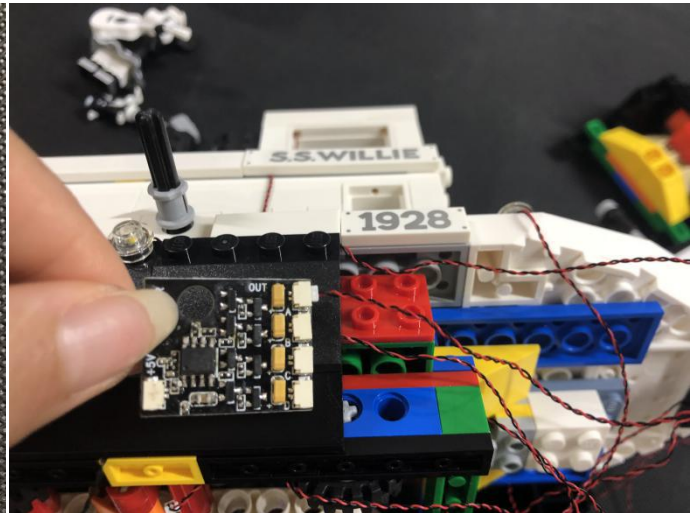
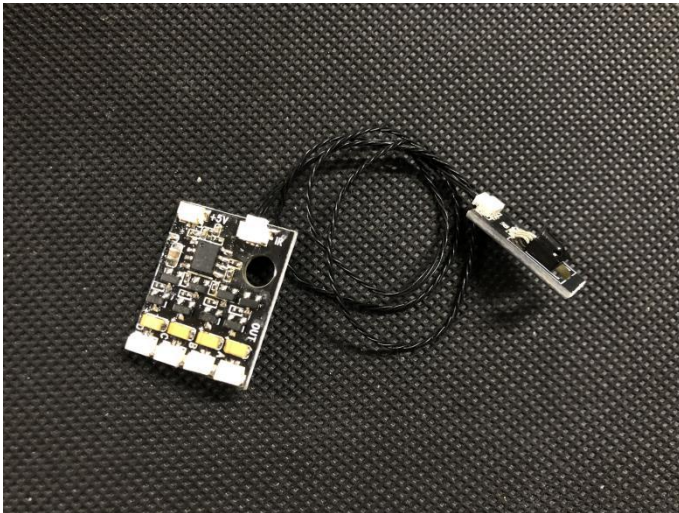
Remove the 1x2 black plate from the head of the boat, take a blue 15cm dot light



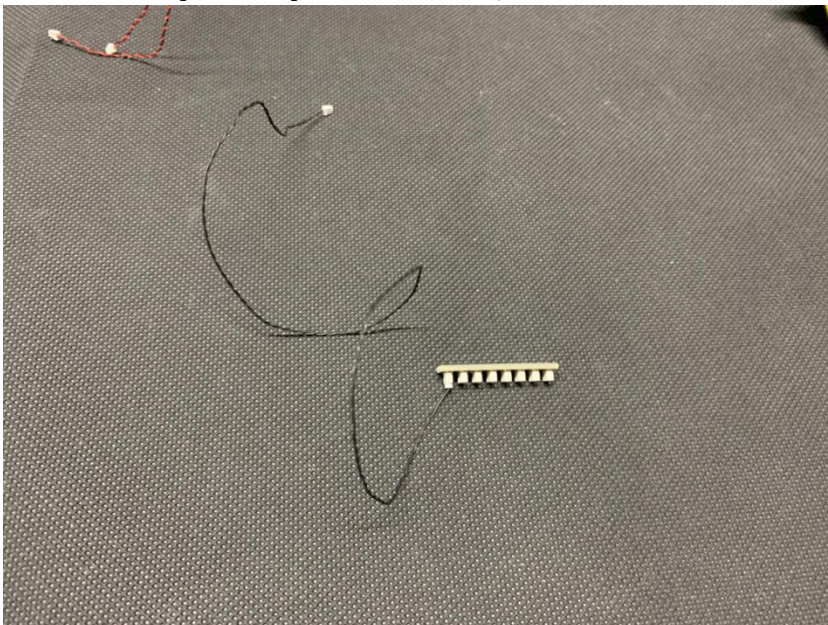
With lighting part downward, place the dot light at the hole on the black plate. Reconnect the black plate back to the head of the boat, from the bottom of the boat, pull the cable backward



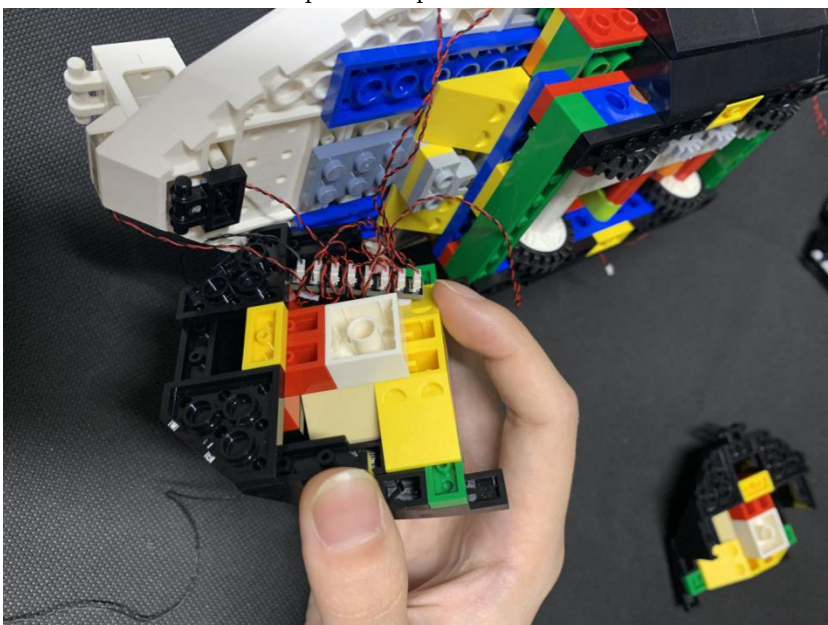
Take the Remote Control Switch Board, the USB Power Cable. Connect the 30cm connecting cable of the warm white light to the remote control switch board



Take the 8-port Expansion Board, connect a 30cm connecting cable to it

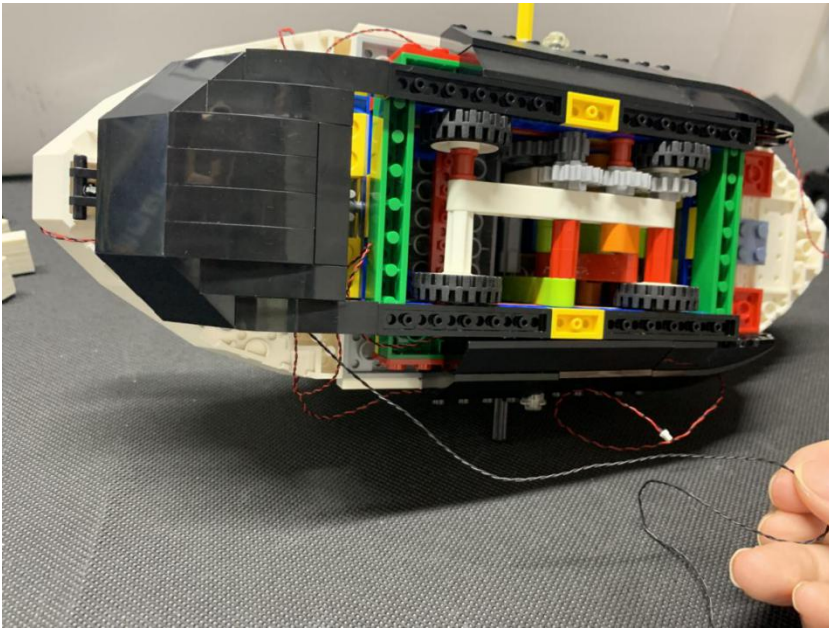


Connect all the 6 cables of the lights from the head of the boat to the 8-port Expansion Board. Place the 8-port Expansion Board to the following place at the head of the boat

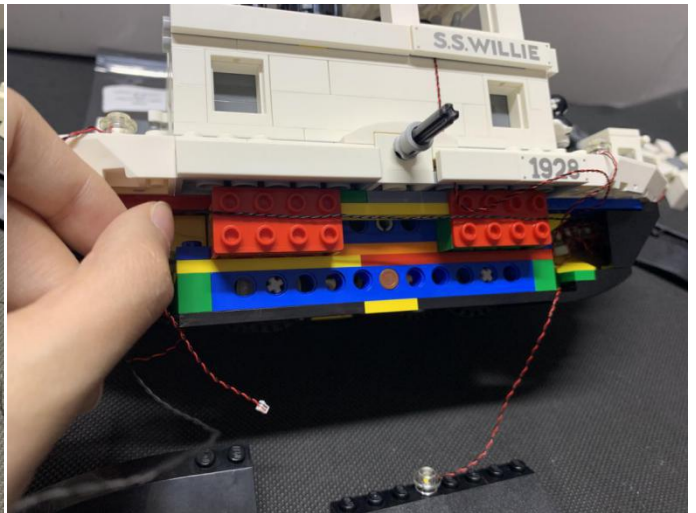


Reconnect the pieces, pull the 30cm connecting cable out from the bottom. Note: place the

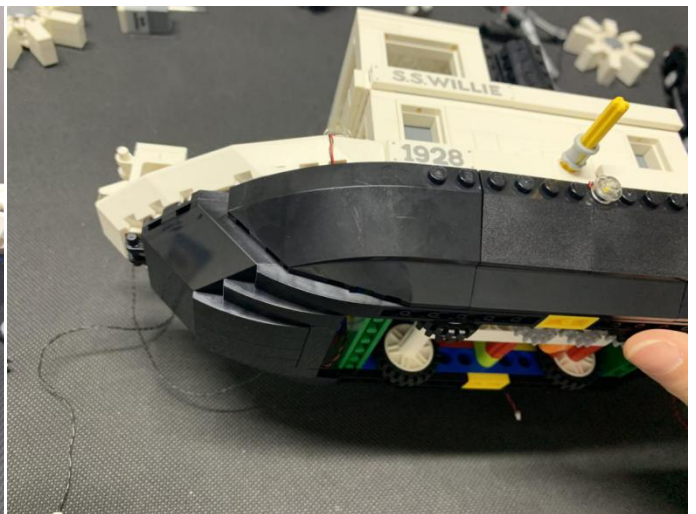
cable in between studs



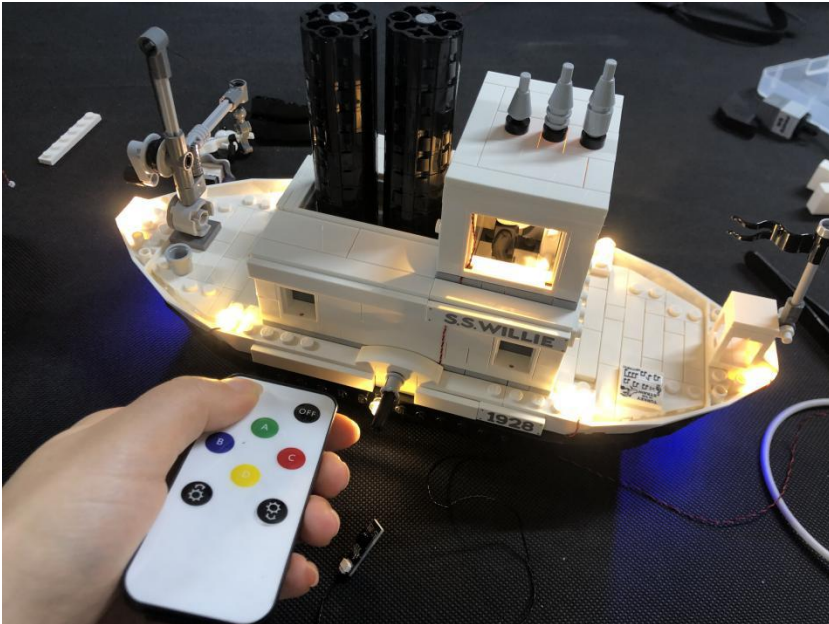
Remove the following black plate from the bottom of the boat, pull the cable alongside to the tail



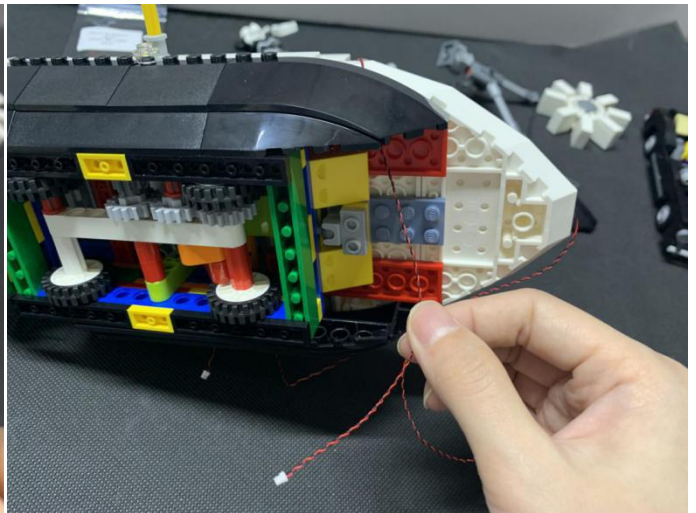
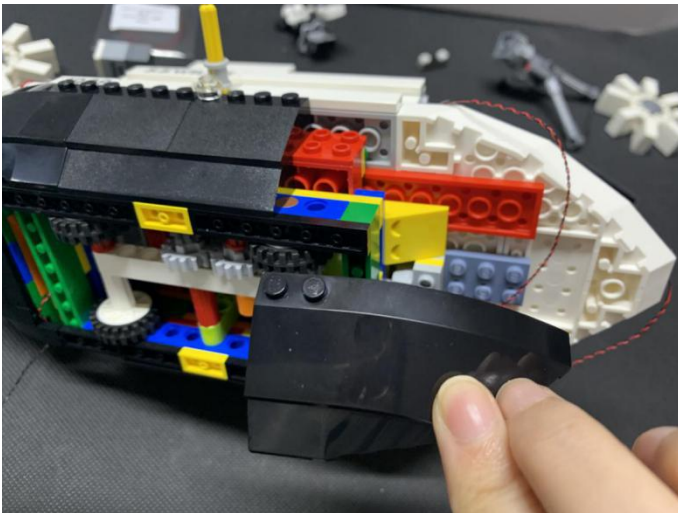
Reconnect the black plates, hide the cable underneath



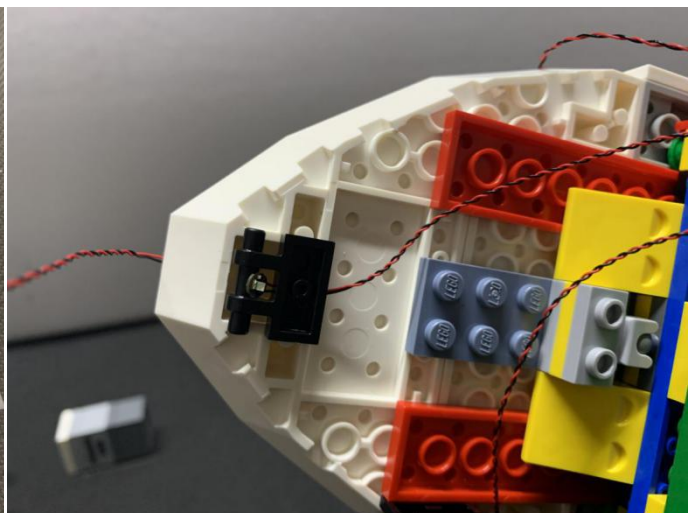
Turn the power on to verify the current



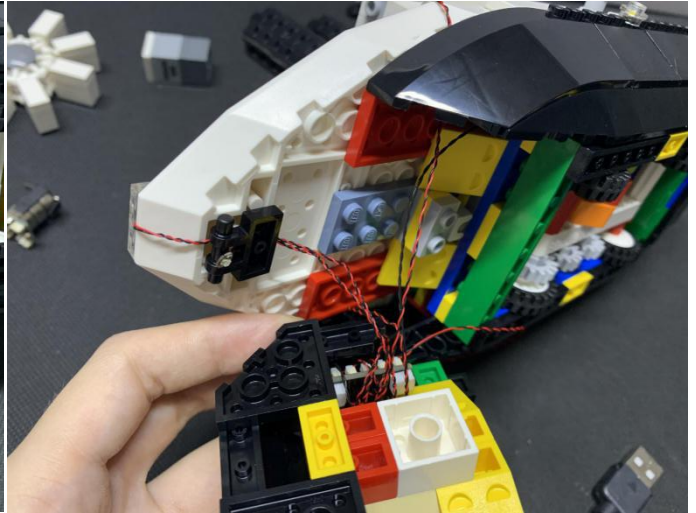
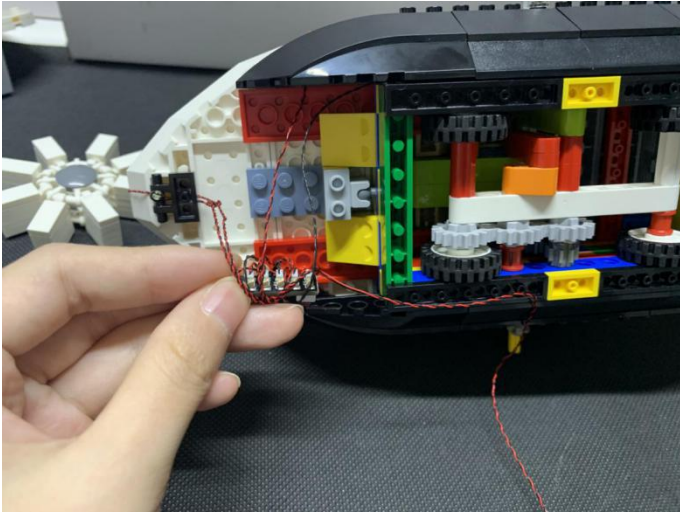
Remove the black plate from the tail



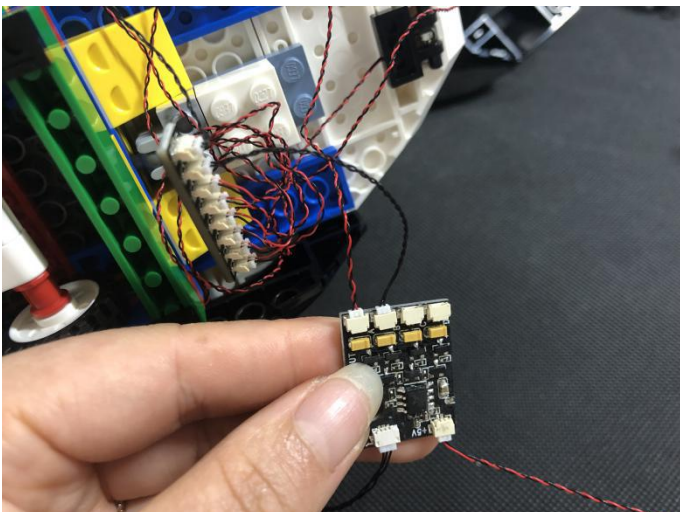
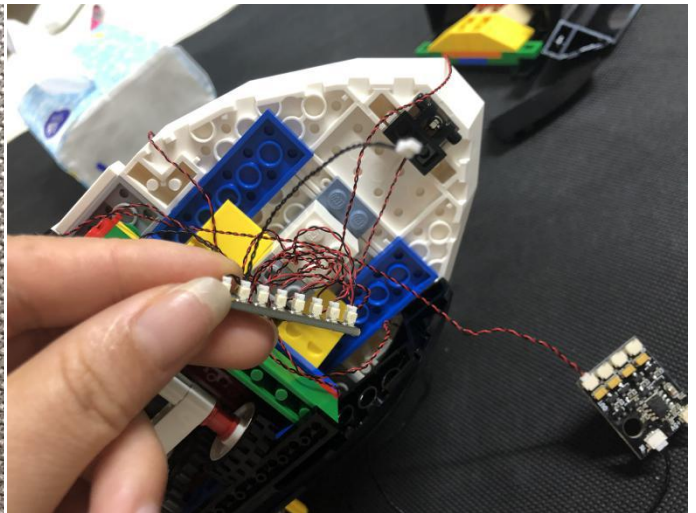
Take a 15cm blue dot light, repeat the previous steps to install it to the tail



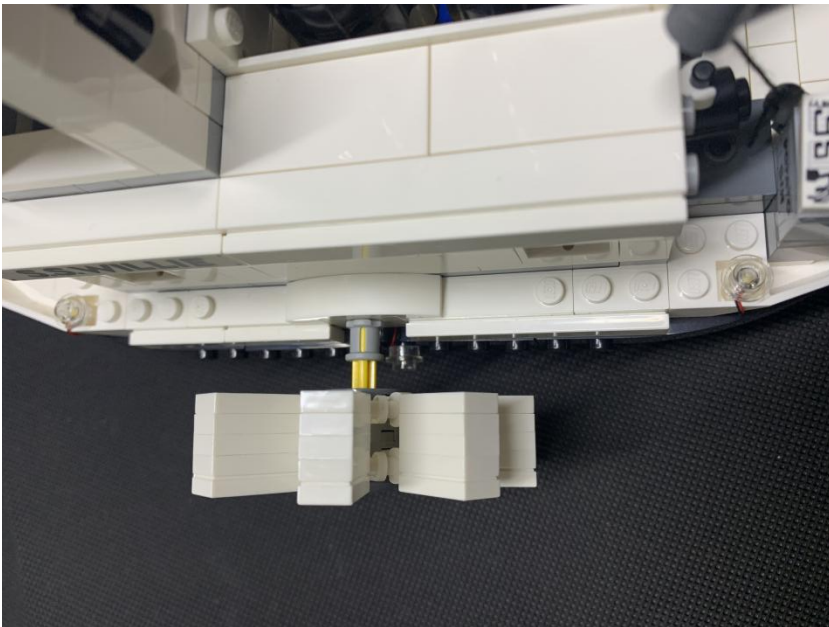
Take a 6-port expansion board, connect the cables from the tail to it, place it to the following position



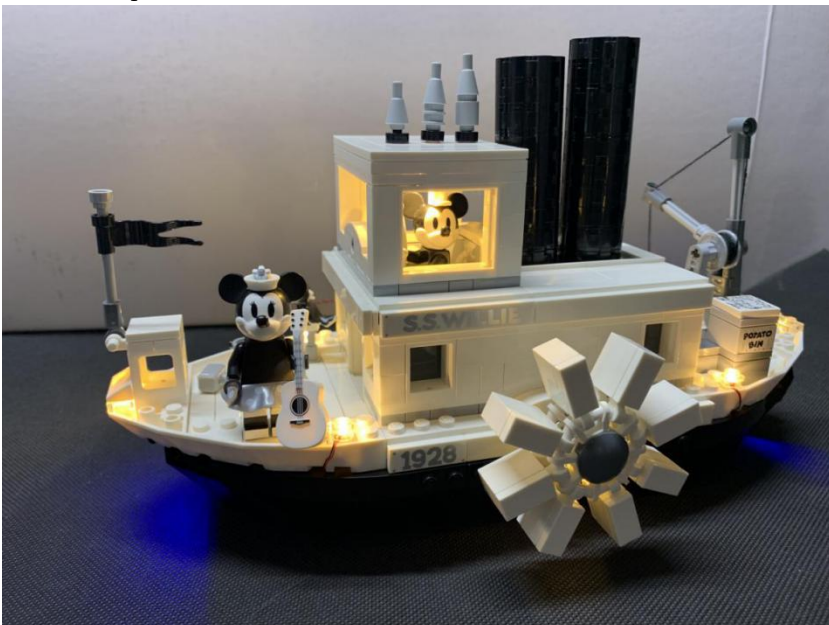
Take a 5cm connecting cable, connect to the 6-port expansion board at the head of the boat, connect the other end of the cable to the remote control switch board. Place the board to the following position



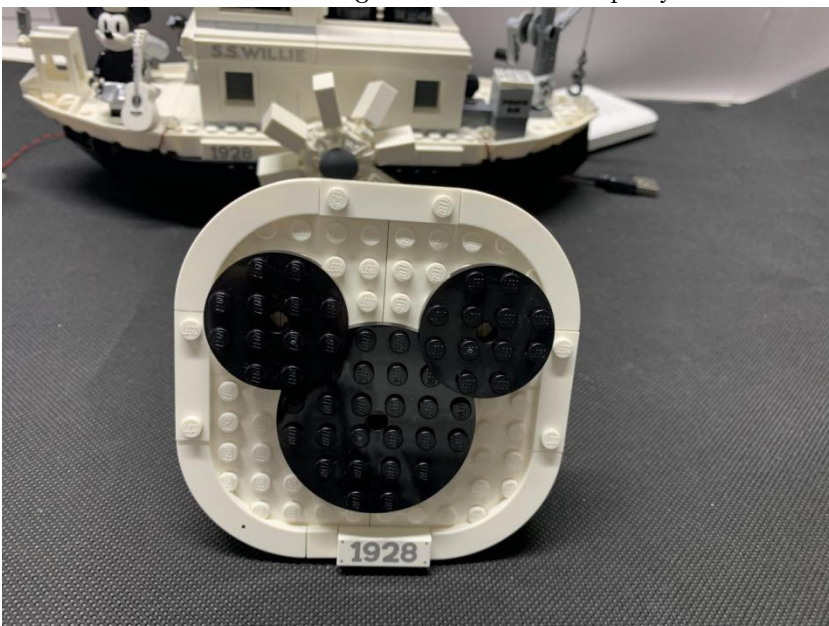
Leave some space when reconnect the runner.



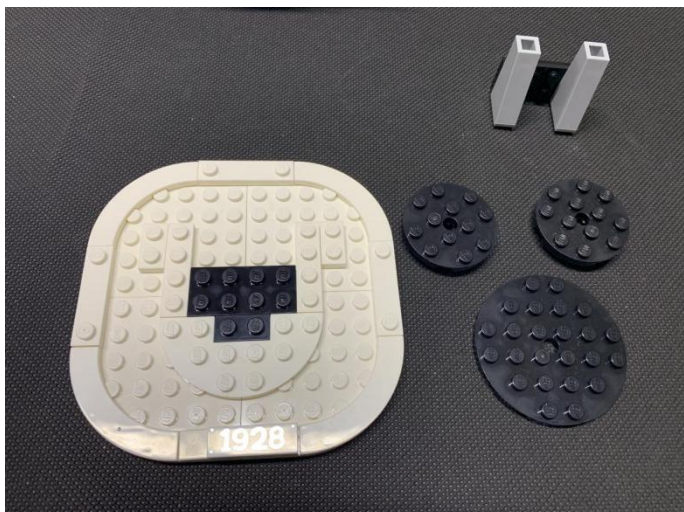
This completes installation for the steamer. Turn the power on and enjoy!



Continue to install lights for the display board



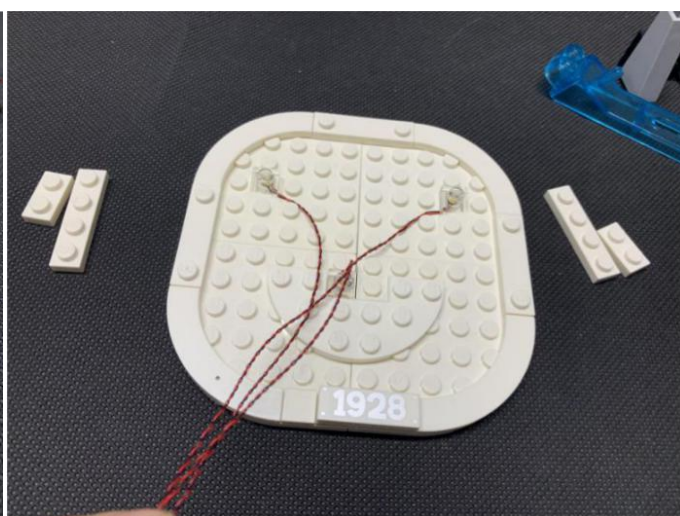
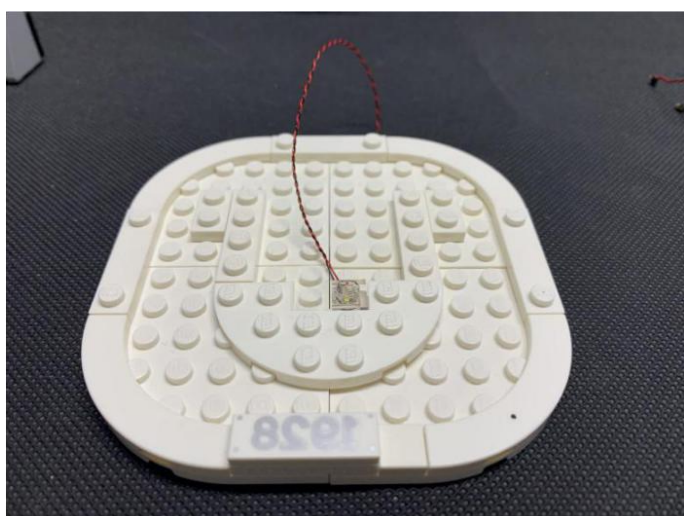
Disassemble the board as per below



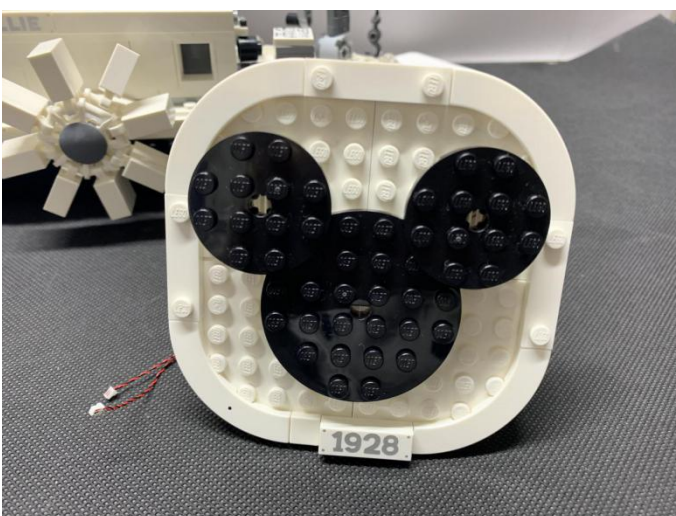
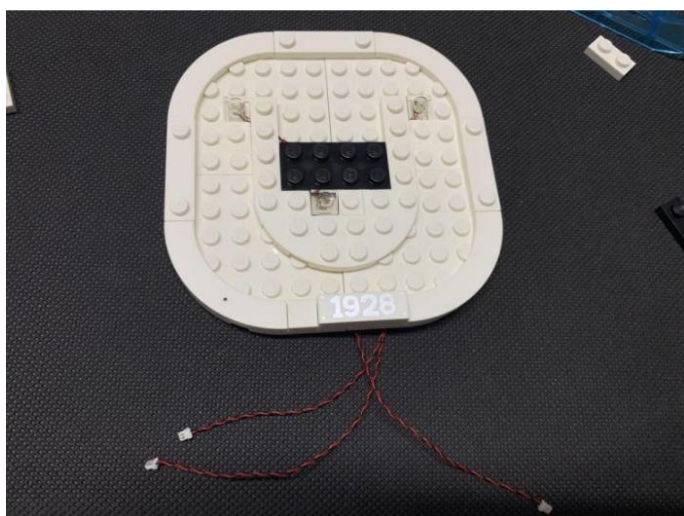
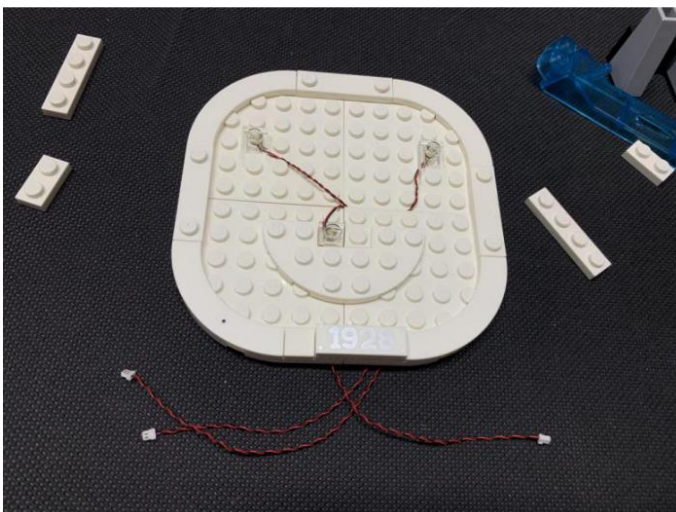
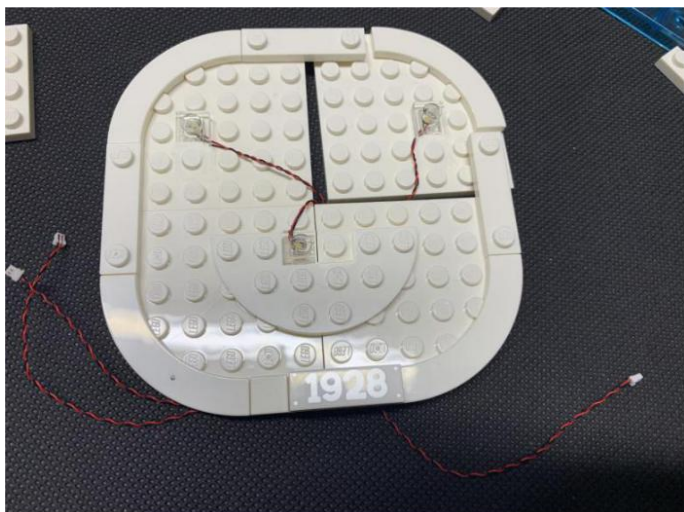
Take 3 warm white 15cm dot lights, 3 trans 1x1 plates



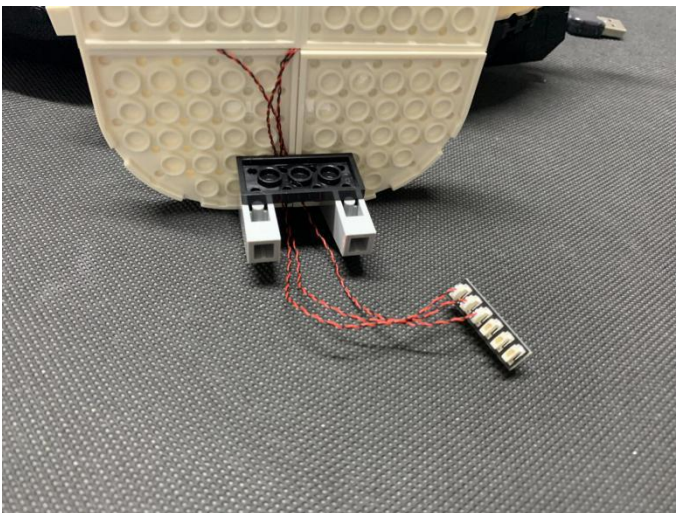
Connect the lights to the following places, replace the original black plates and white plates with the trans ones



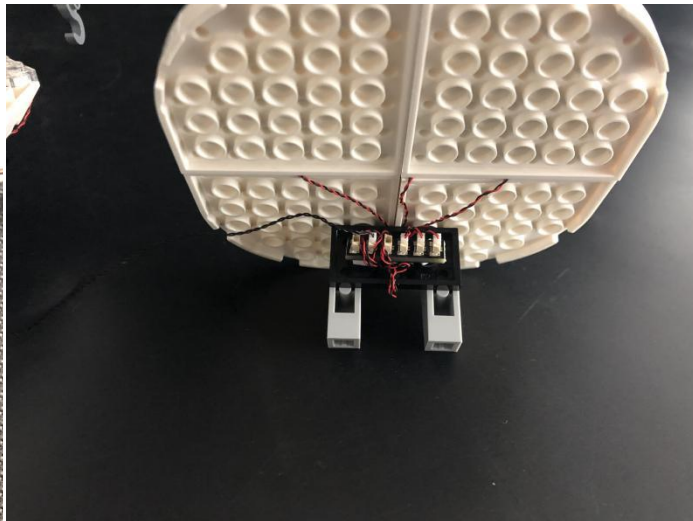
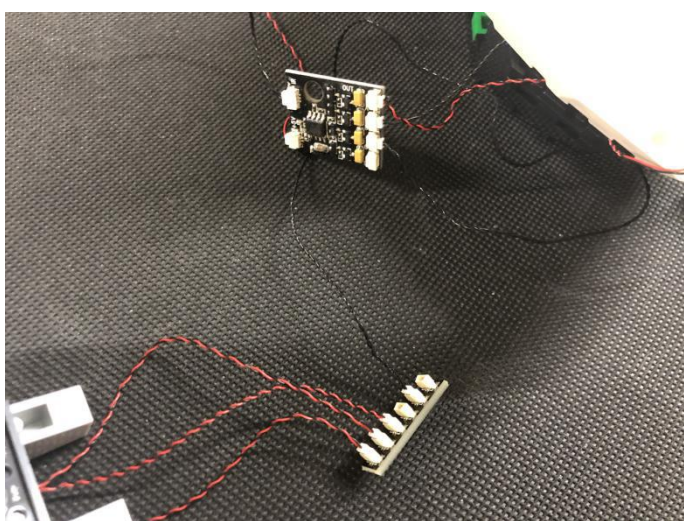
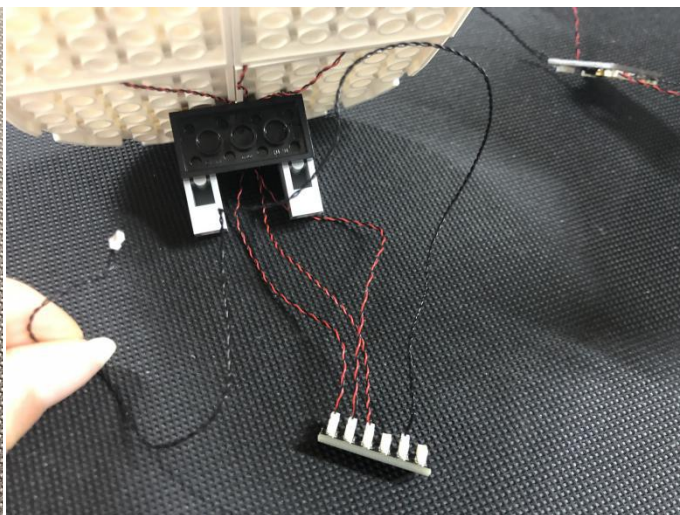
Thread the cables through the center to the back of the board. Reconnect the display board



Take a 6-port expansion board, connect the cables of the lights to it



Take a 30cm connecting cable, connect it to the 6-port expansion board. Connect the other end of the cable to the remote control switch board. Stick the expansion board to the back of the board



Reconnect the black plates underneath the boat.  
This completes installation of this LED Lighting Kit. ENJOY!

