

International Space Station #Lego Light Kit for 21321

Thank you for choosing our lighting products. We are committed to LEGO product study and lighting development, we're always trying our best to provide LEGO fans with the best products and the best installation ideas.

Must be careful observation, imagination can be infinite.

We provide basic parts to support your imagination.

DO IT YOURSELF .that's what LEGO is .

As always, Lego has been adhering to the DIY philosophy from product selection, research and development to sales. Consumers buy the parts, you will assemble them by yourself, and you can experience every step from picking up the first piece to installing the last one. Besides, LEGO has different answers for the installation form and method of each part. Vonado lighting also does not want to kill your unlimited creativity, we will try our best to make products with high variability, high playability and unlimited play. If you have any dissatisfaction or your own ideas on the parts such as the color of the lights, the length of the cables, the installation position of the product, and the final effects of each module, you can make your own arrangement, and we will cooperate with you to replace or repurchase. LETS MOVE!

Package contents:

- 4 x LED Warm White Soft Strip Lights
- 1 x 15cm Blue Dot Light
- 4 x 15cm Warm White Dot Lights
- 1 x 30cm Flashing Blue Dot Light
- 2 x 15cm Flashing Red Dot Lights
- 2 x Multi Colour Background Lights
- 4 x 15cm Connecting Cables
- 1 x 30cm Connecting Cable
- 1 x 50cm Connecting Cable
- 1 x 6-port Expansion Board
- 1 x 12-port Expansion Board
- 1 x USB Cable
- 1 x Flat Coin Cell Battery Pack

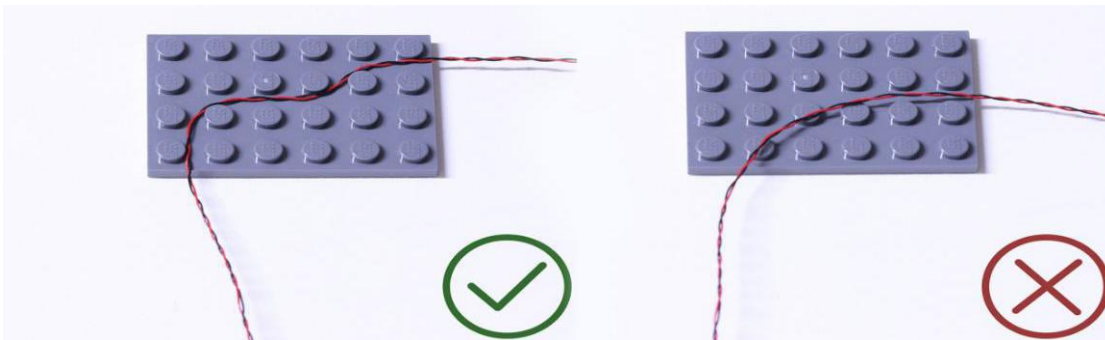
Extra pieces



Note:

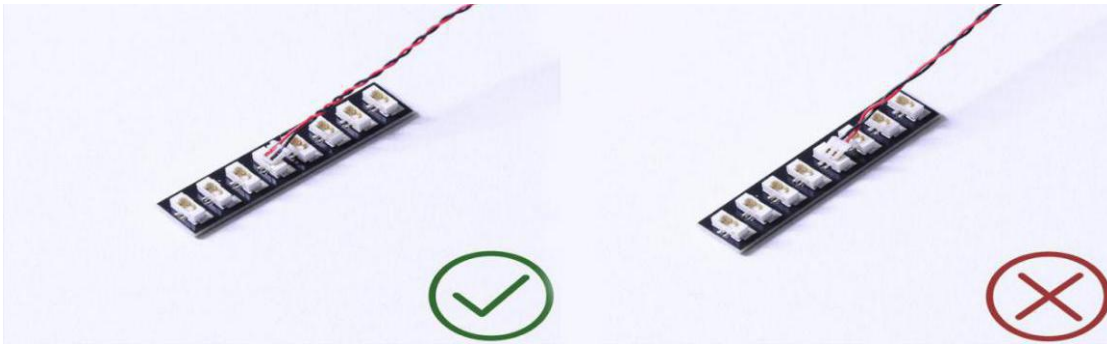
Place wires on the surface or under the building blocks.

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

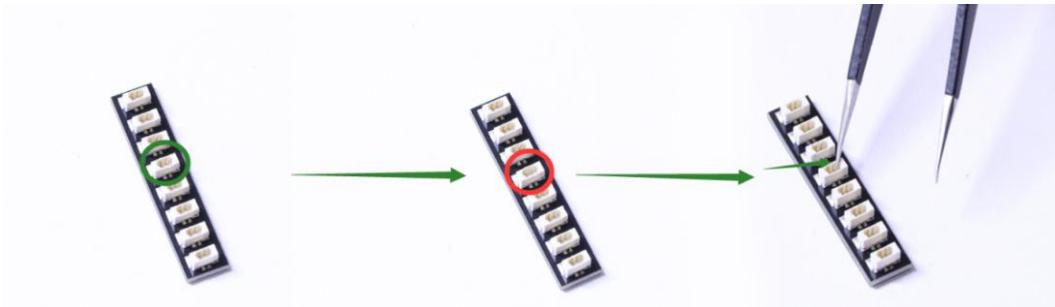


Insert the connectors to the ports.

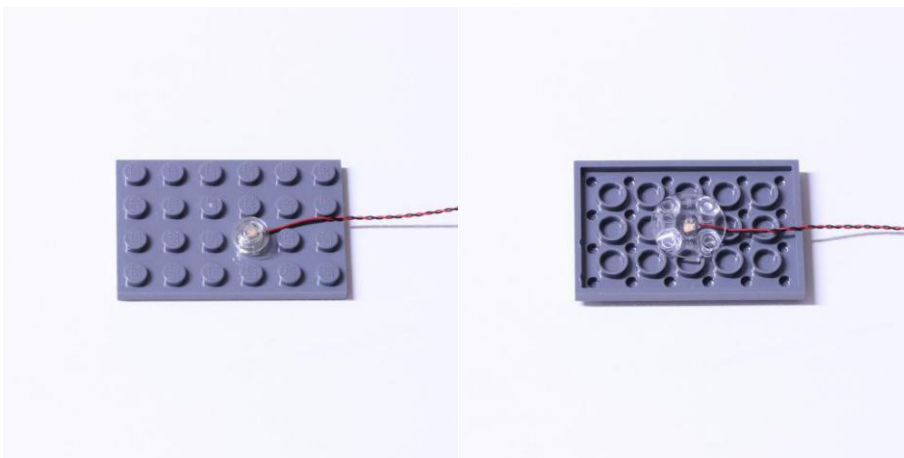
Be careful when you are operating, there's only one correct way to insert, make sure the expansion board is upward, find the soldered "=" sign on the left of the port. When you are inserting, the side which the wires can be seen should be faced to the "=" sign and if you feel hard to insert, please stop, 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.

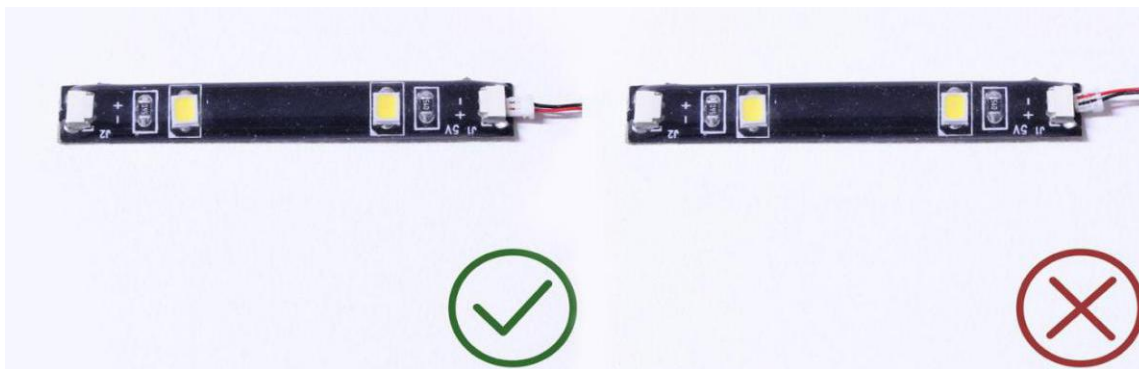


When installing dot lights, make sure they are correctly placed (Yellow LED package is exposed). You can put them either on the top of the studs or between studs.

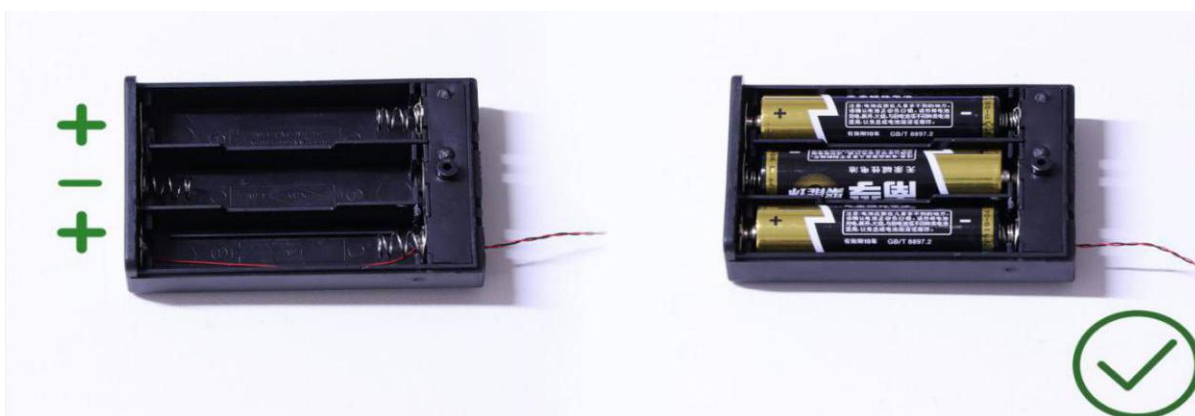


Connecting cable connectors to Strip Lights

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.



Instructions for installing this kit:

International Space Station, Lighting Kit, 14 bags in total, 13 bags with labels, 1 bag without label, as per below:

Power supply: USB Cable, Flat Coin Cell Battery Pack (self-contained power bank and coin cell battery) .

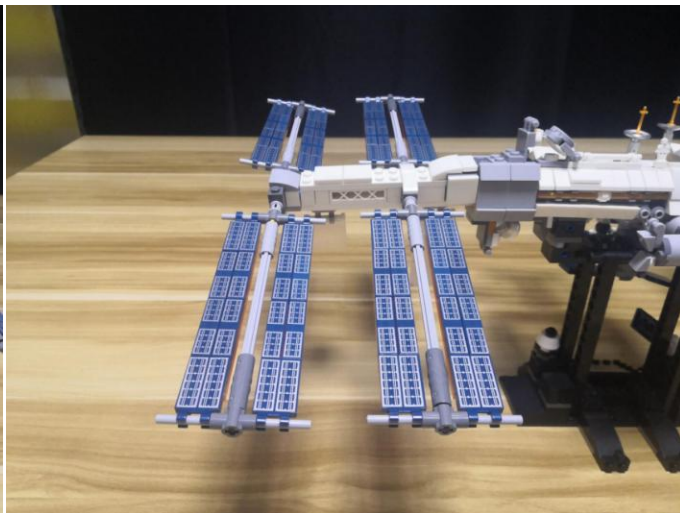
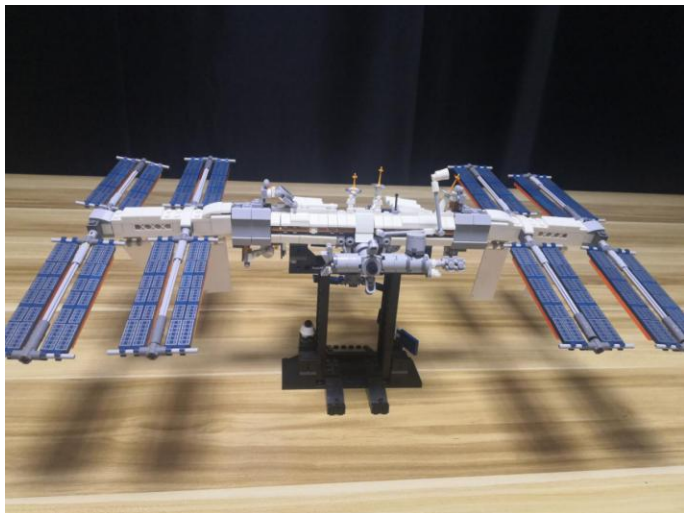


Firstly, take the power source (power bank or mobile phone charger), connect it to the USB cable, connect the other end of the USB cable to the expansion board to verify all the lights one by one.

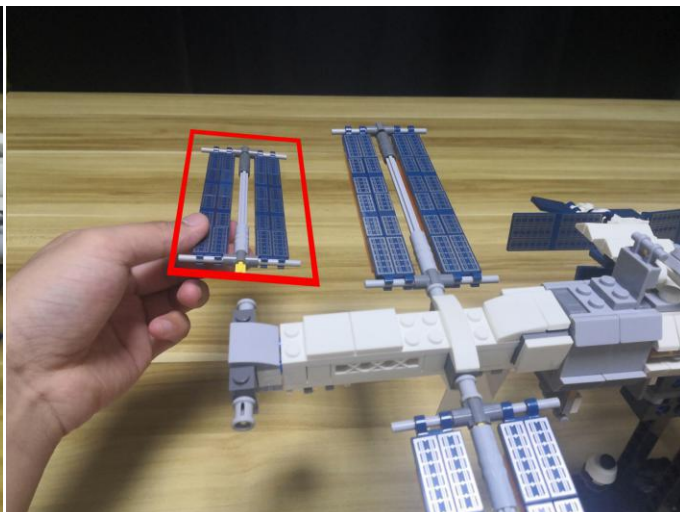
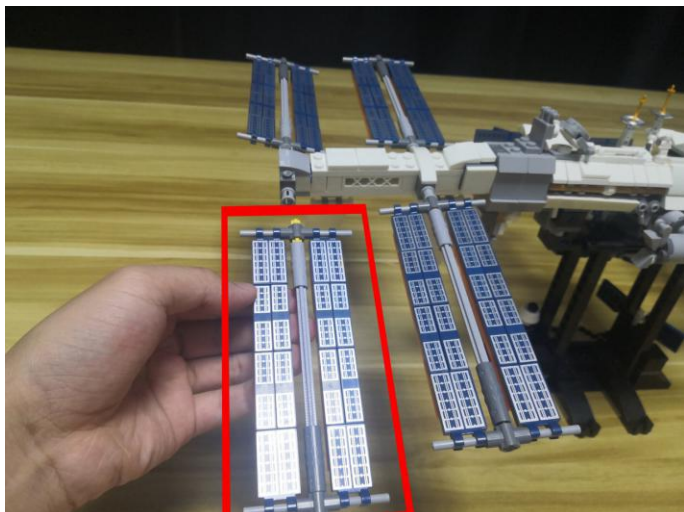


Instructions for installing this kit:

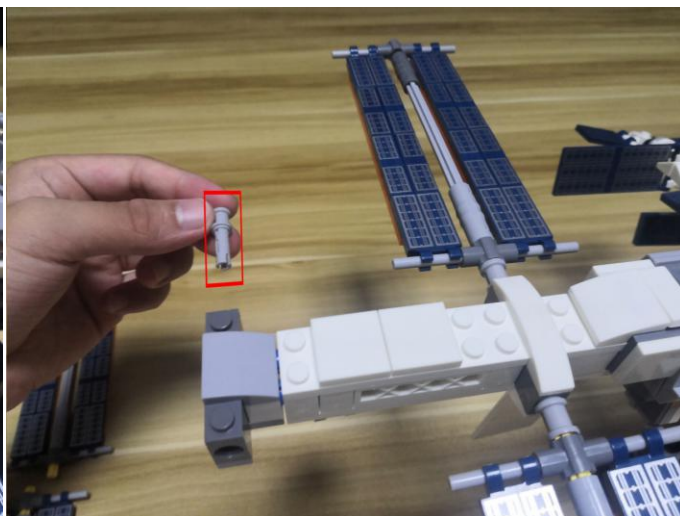
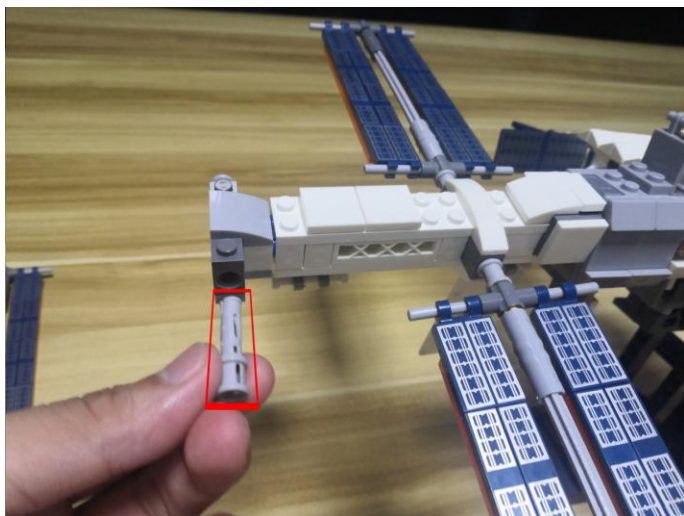
Take the space station, turn to the solar panel at the left side.



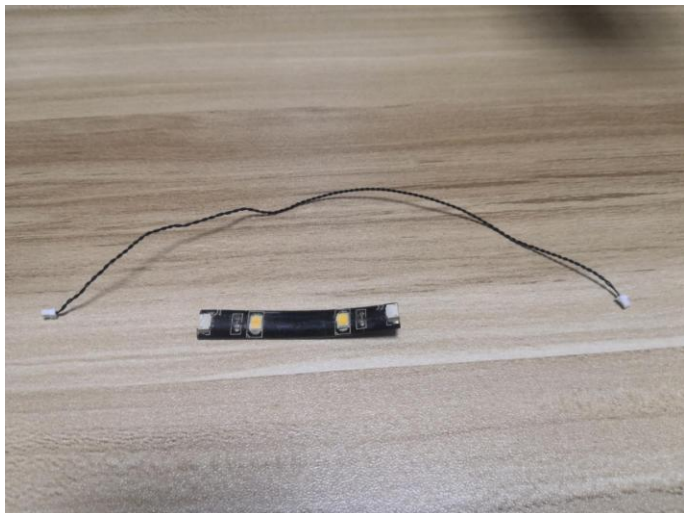
Disconnect the 2 solar panels from the far left.



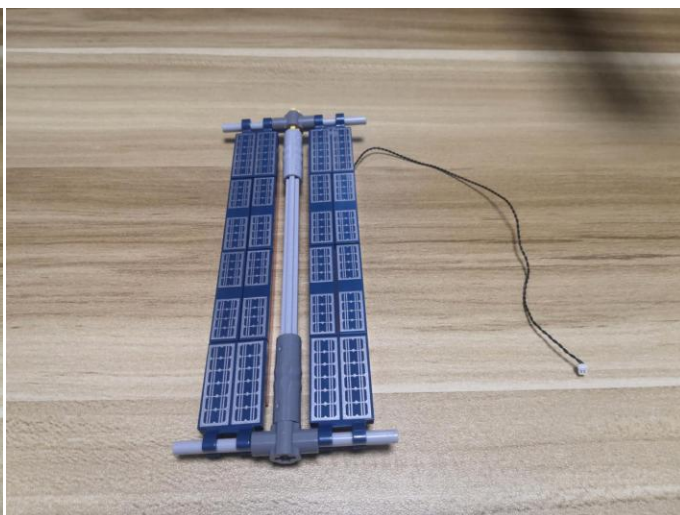
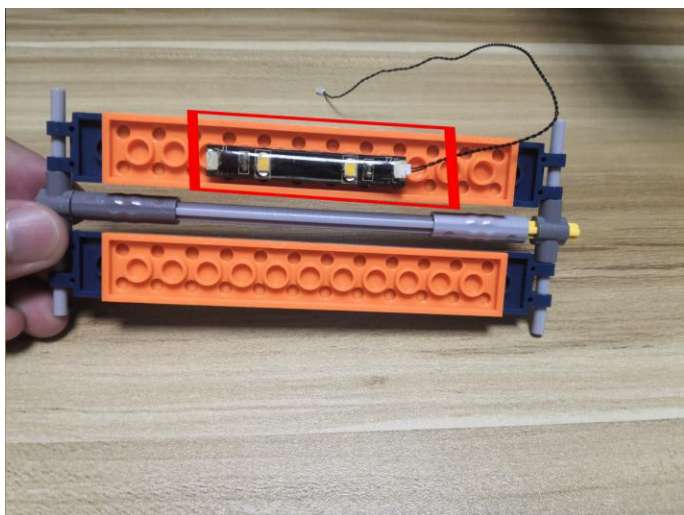
Disconnect the following 2 gray pieces.



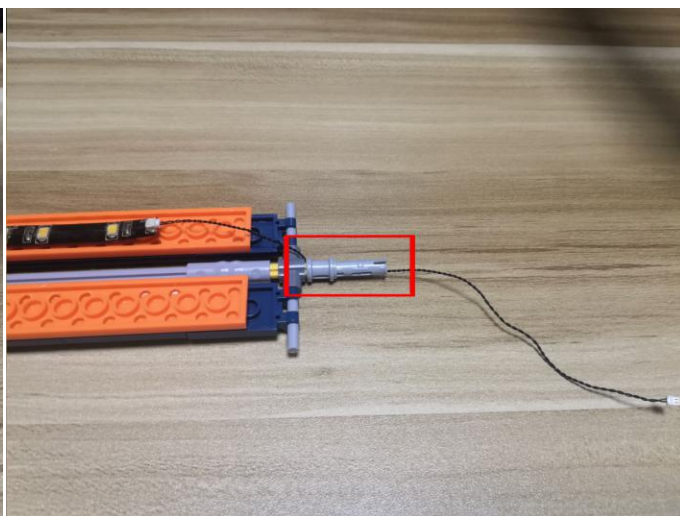
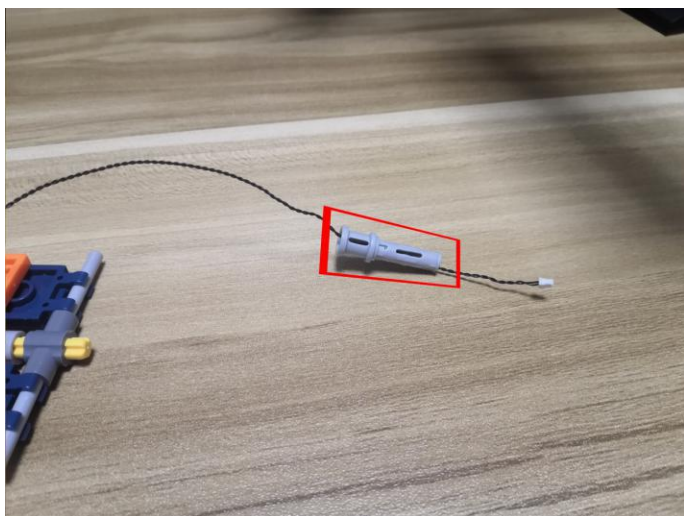
Take a 15cm connecting cable, a warm white strip light, assemble them as per below.



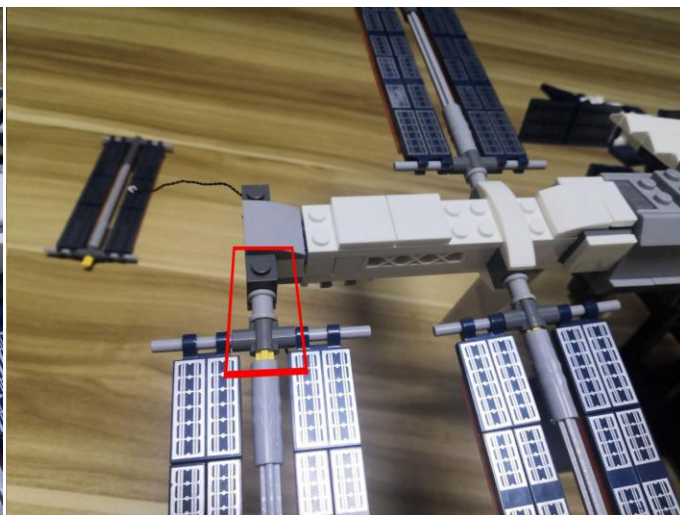
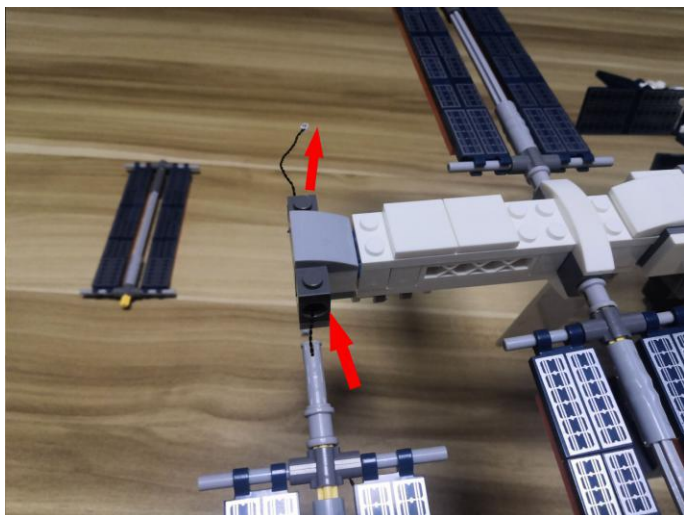
Stick the strip light to the following place, pull the cable rightward (note to place the solar panel in the right direction).



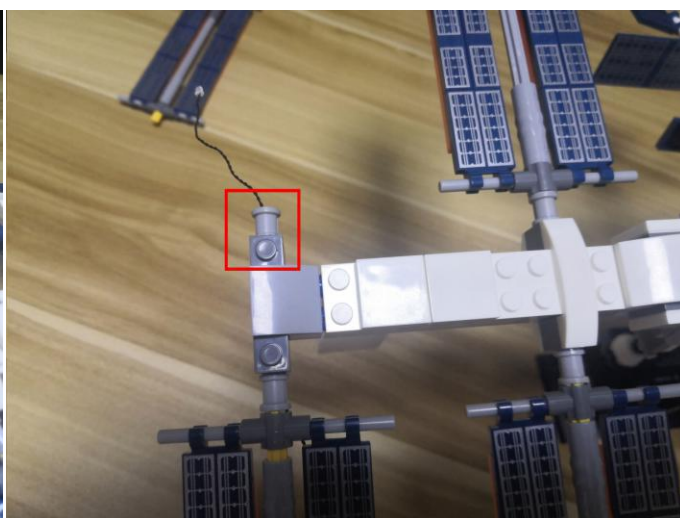
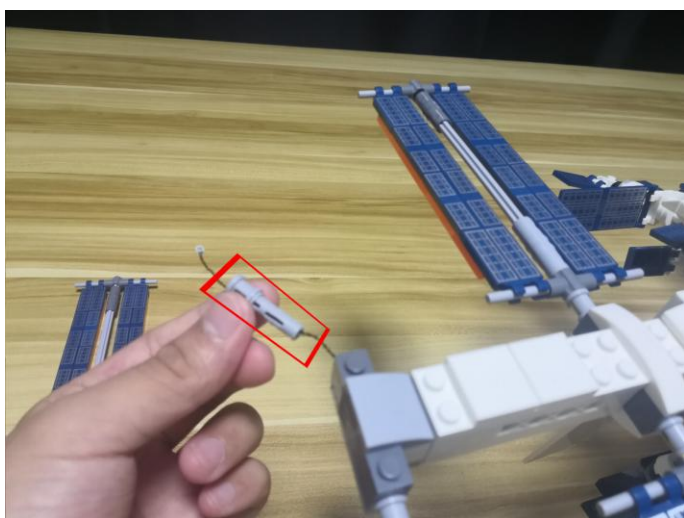
Thread the cable through the following piece (note to thread the cable in the right direction), reconnect the piece.



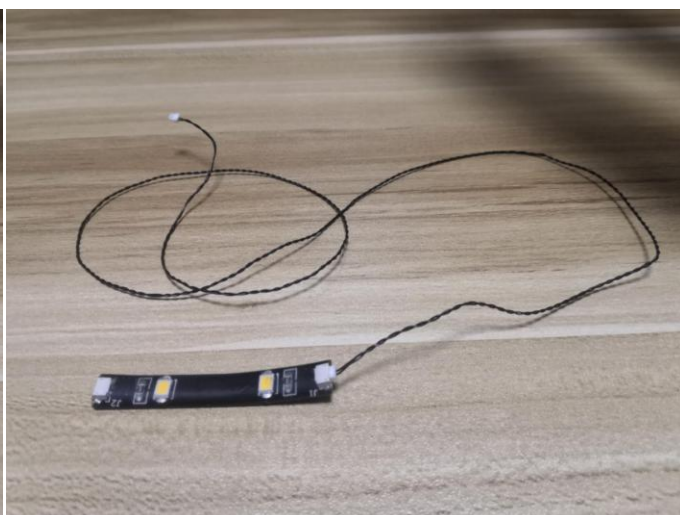
Continue to thread the cable through the following space, reconnect the solar panel.



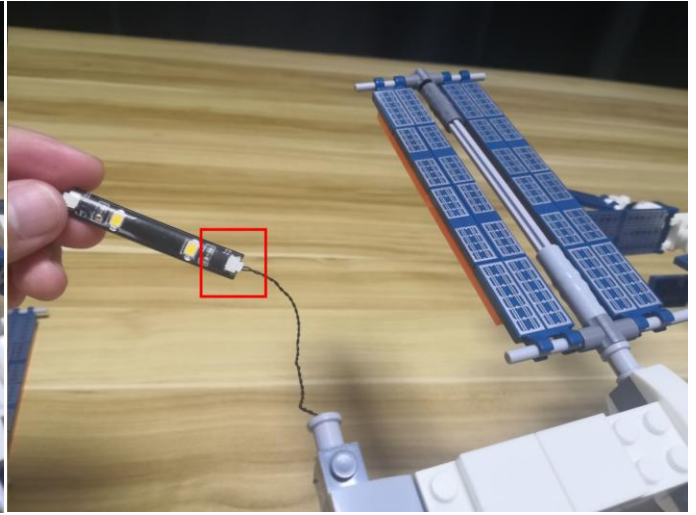
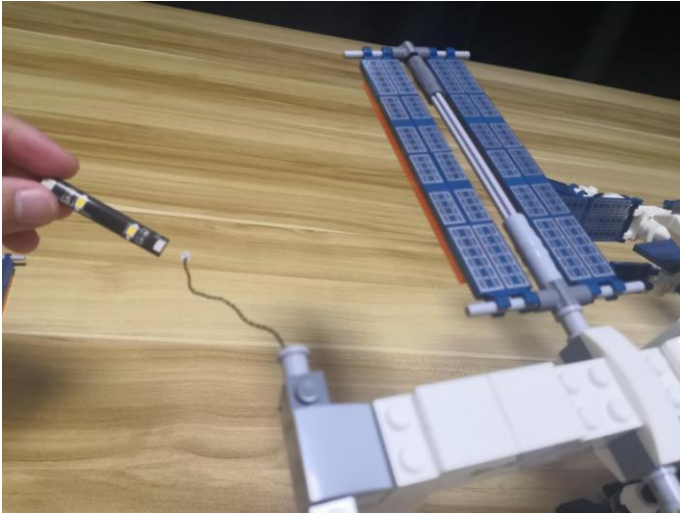
Thread the cable through the other gray piece, reconnect the gray piece.



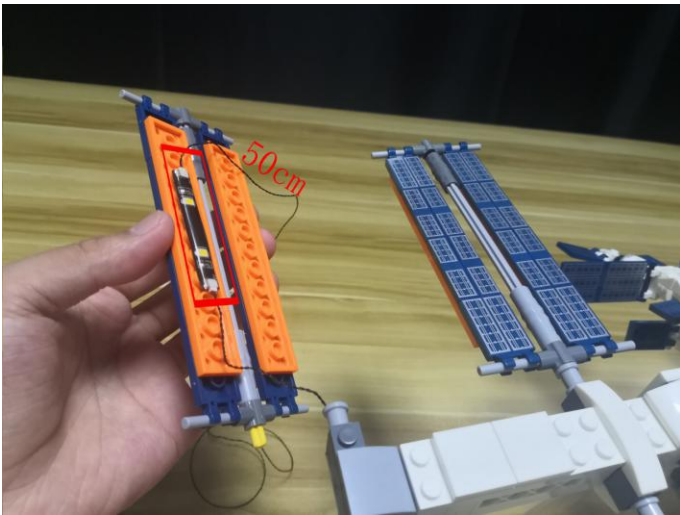
Take a 50cm connecting cable, a warm white strip light, assemble them as per below.



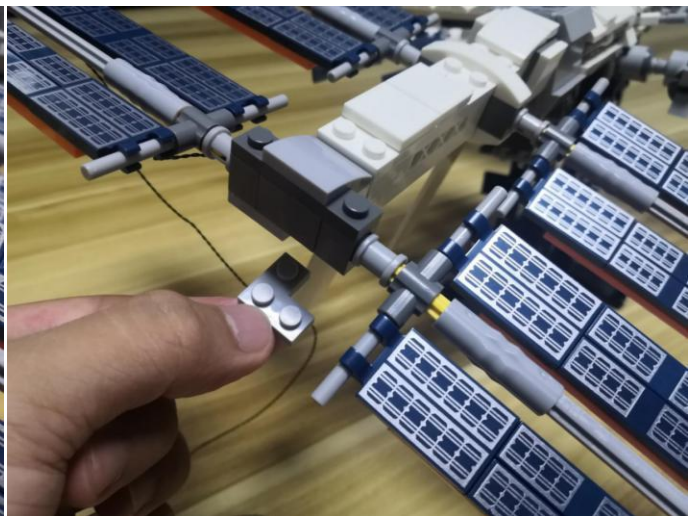
Connect the following cable to the strip light.

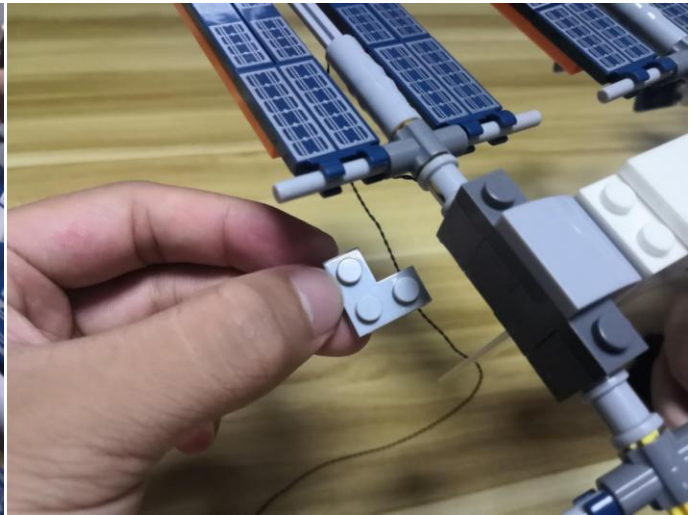
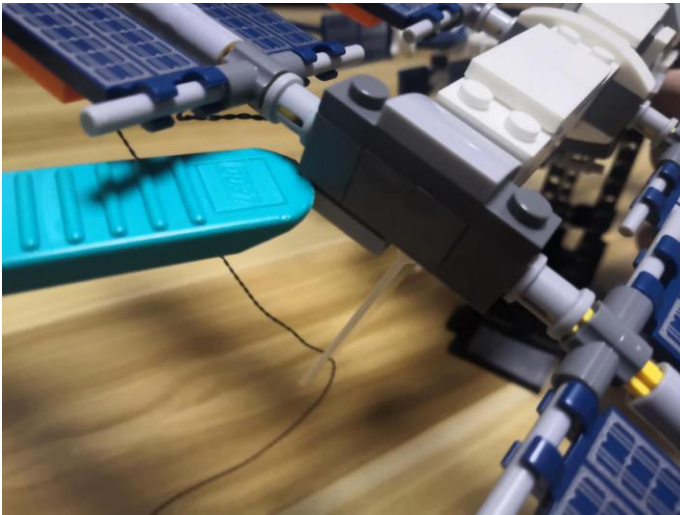


Stick the strip light to the following place on the solar panel, pull the 50cm connecting cable up, reconnect the solar panel.

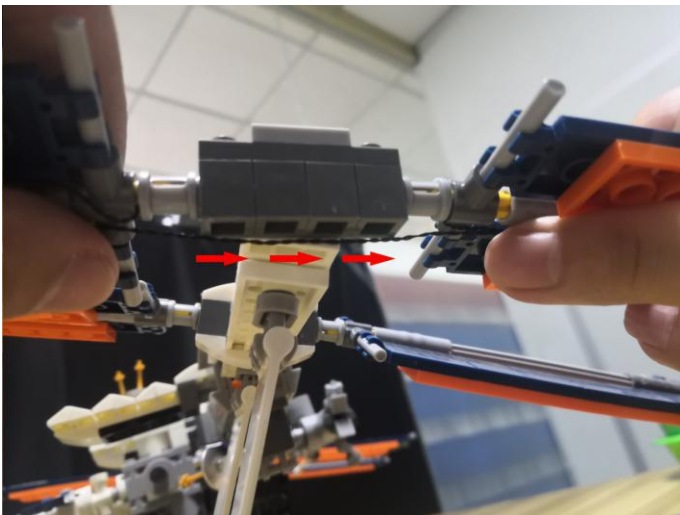


Disconnect the following 2 gray pieces.

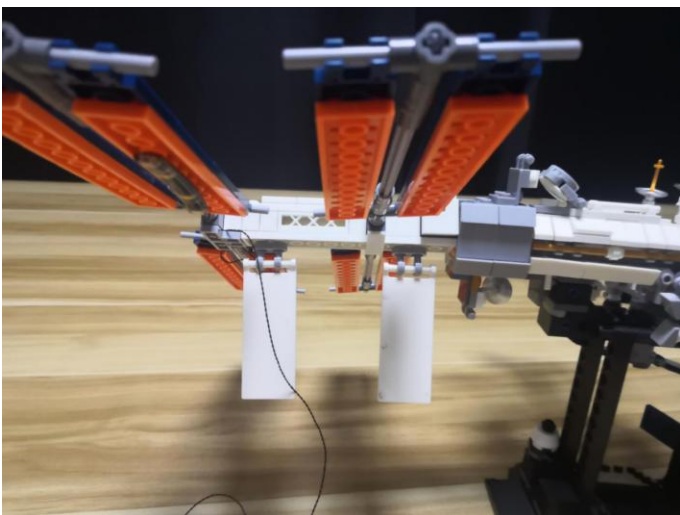




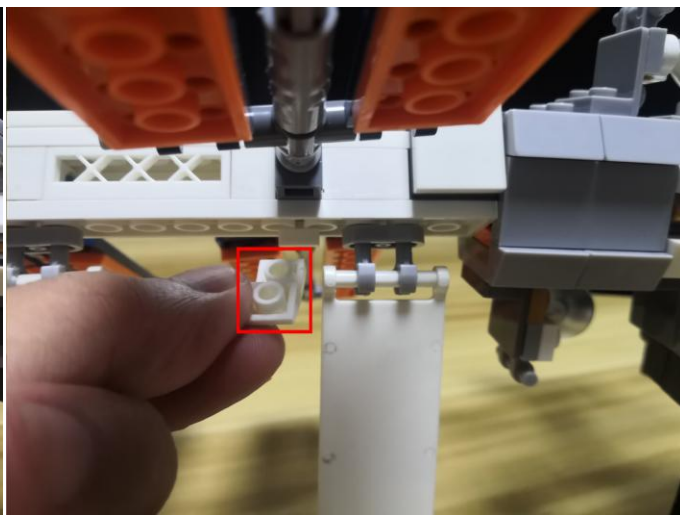
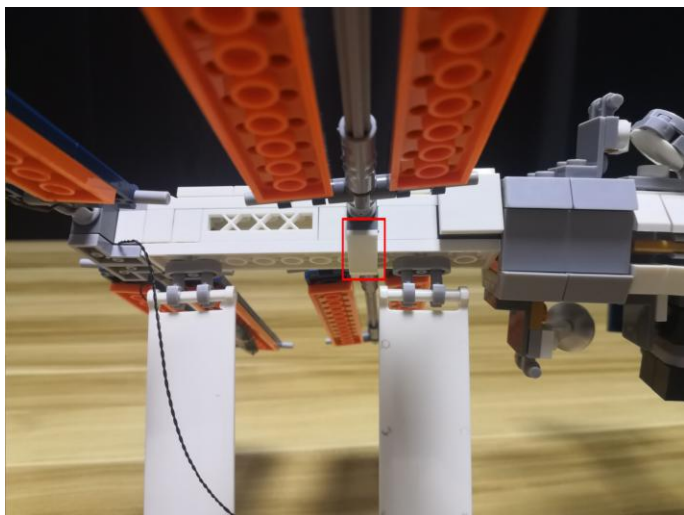
Place the 50cm connecting cable as per below, reconnect the gray pieces.



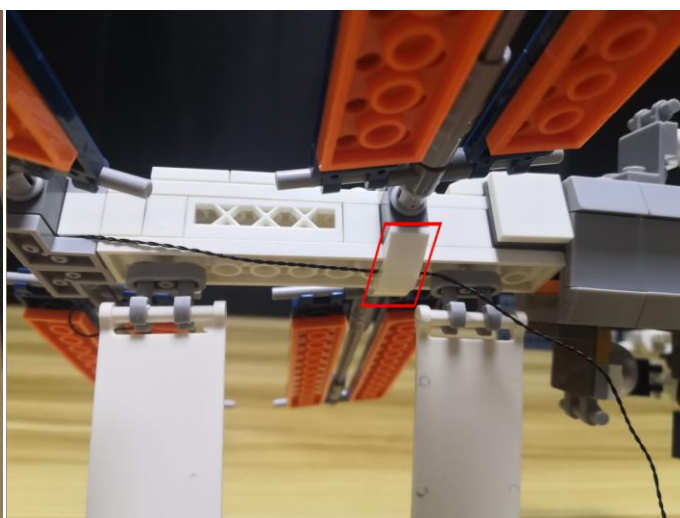
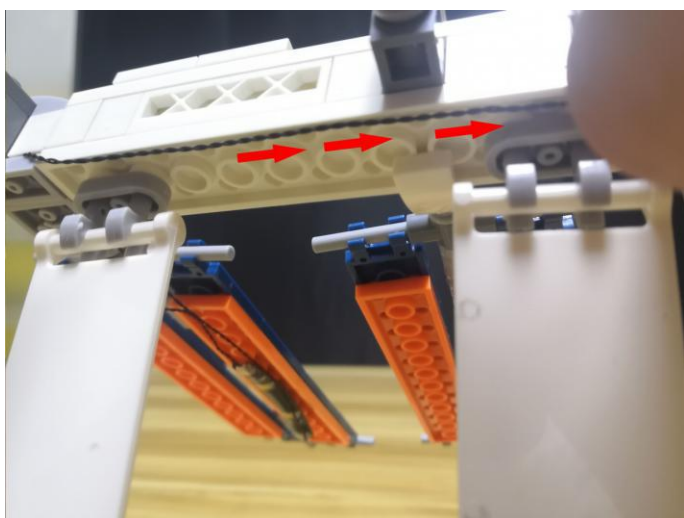
Turn to the following place.



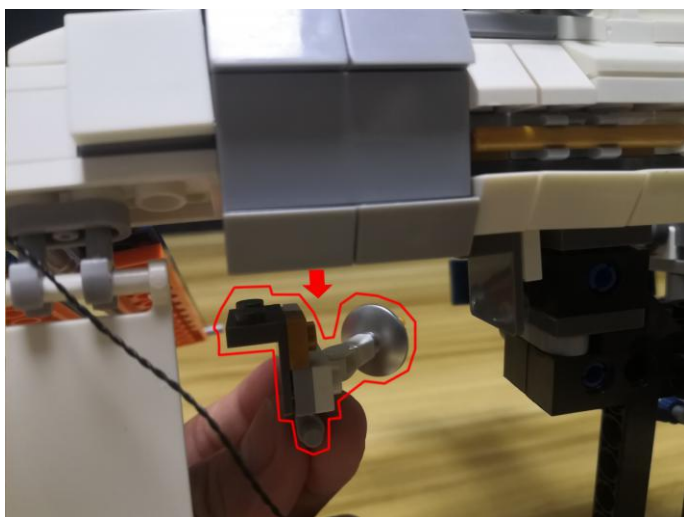
Disconnect the following piece.



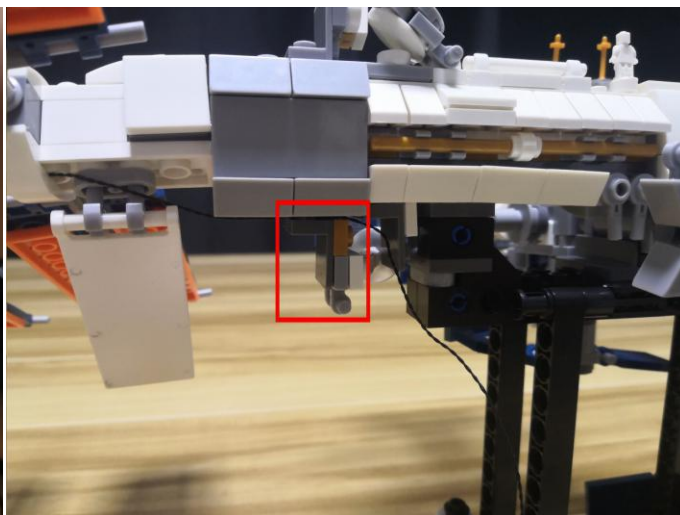
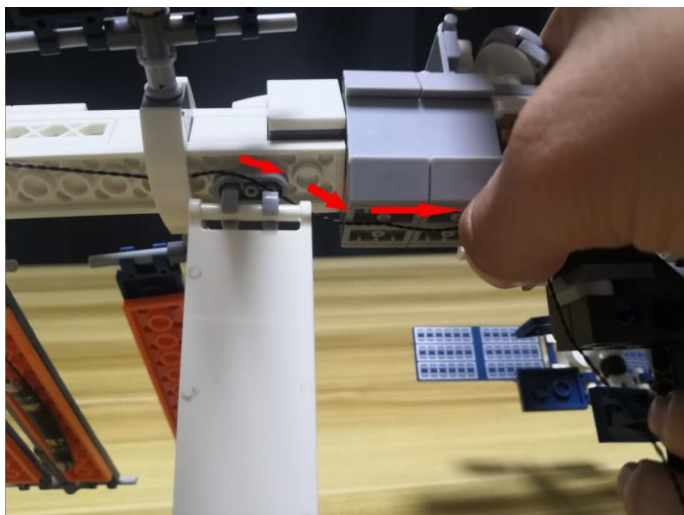
Place the cable as per below, reconnect the piece.



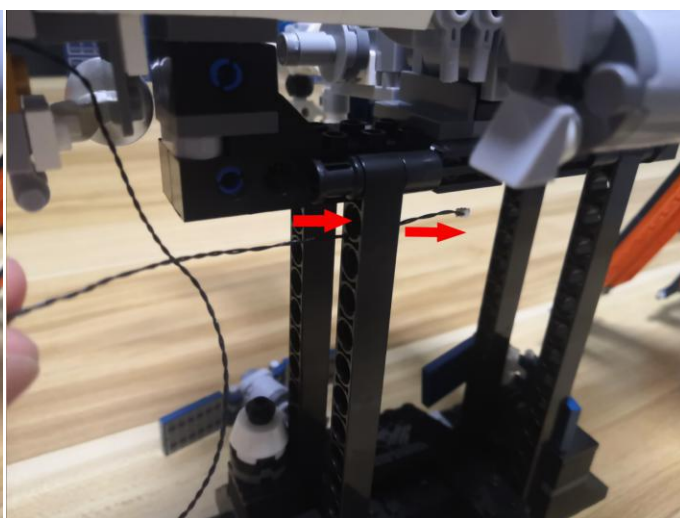
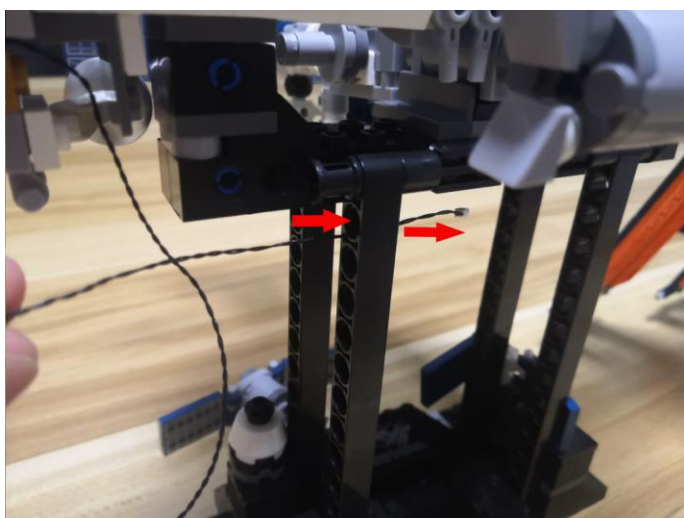
Disconnect the following piece.



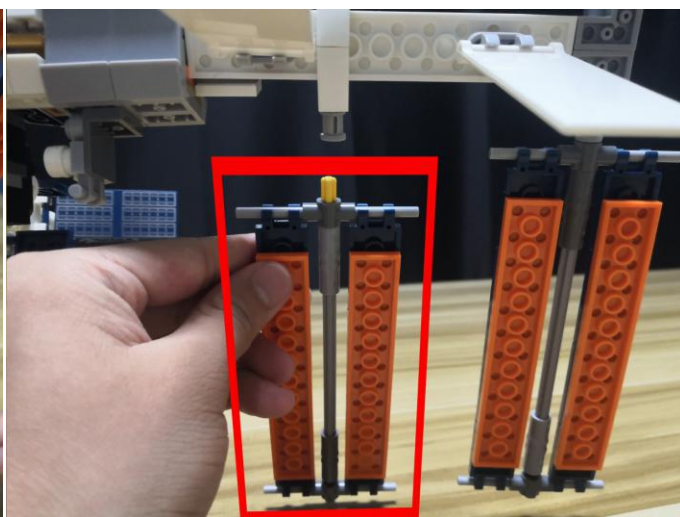
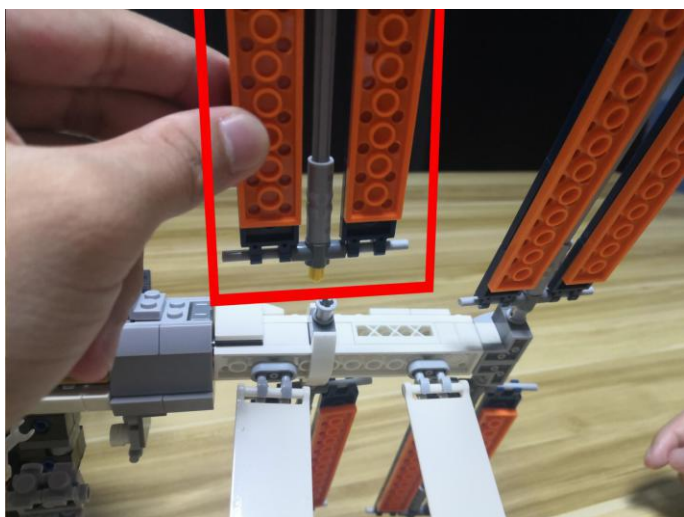
Place the cable as per below, reconnect the piece.



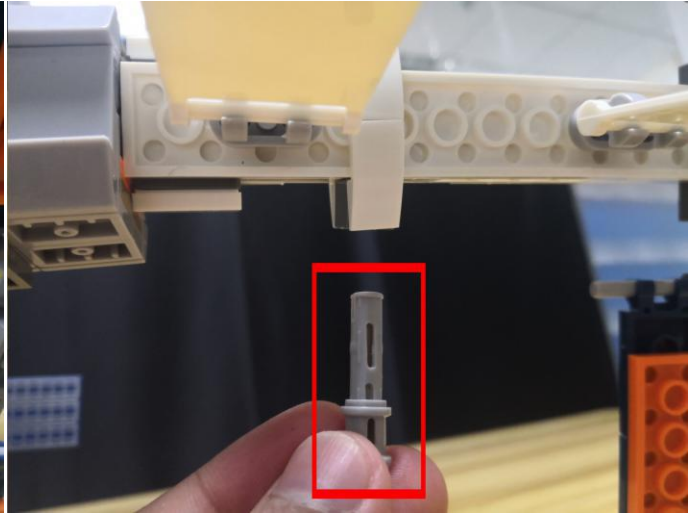
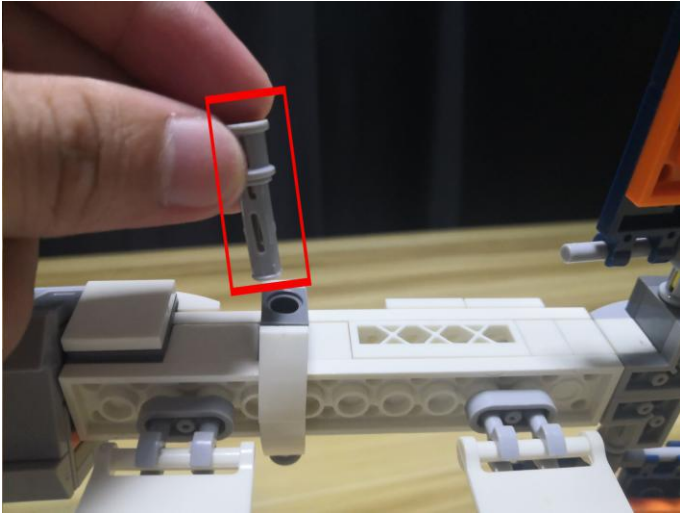
Continue to thread the cable through the following holes, tighten the cable up.



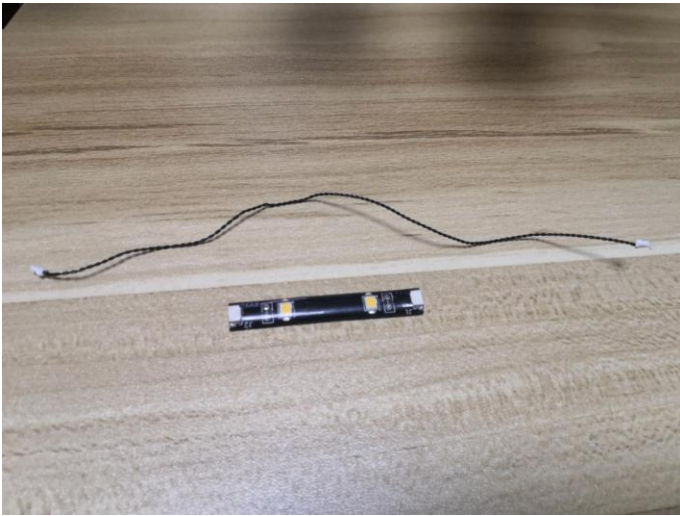
Turn to the right, disconnect the 2 solar panels as per below.



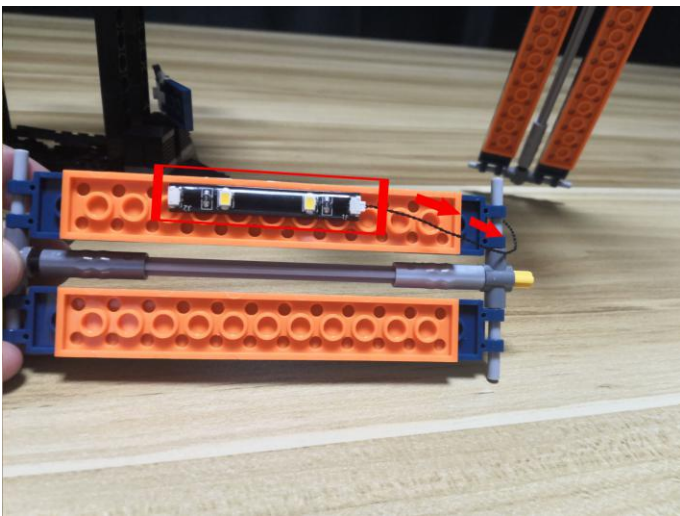
Remove the following 2 gray pieces.



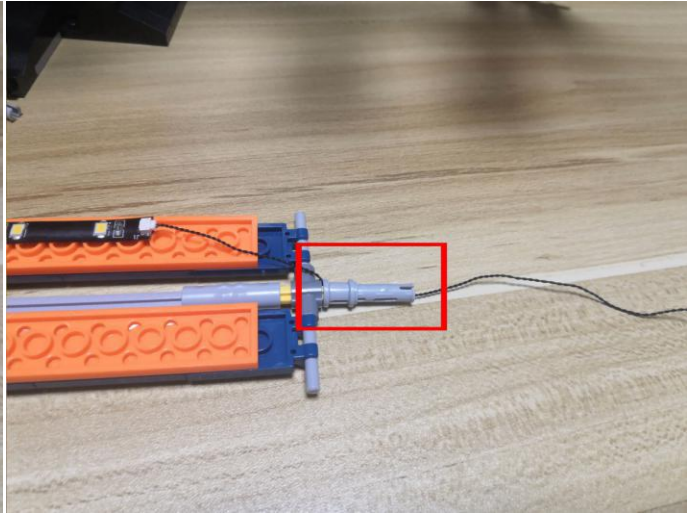
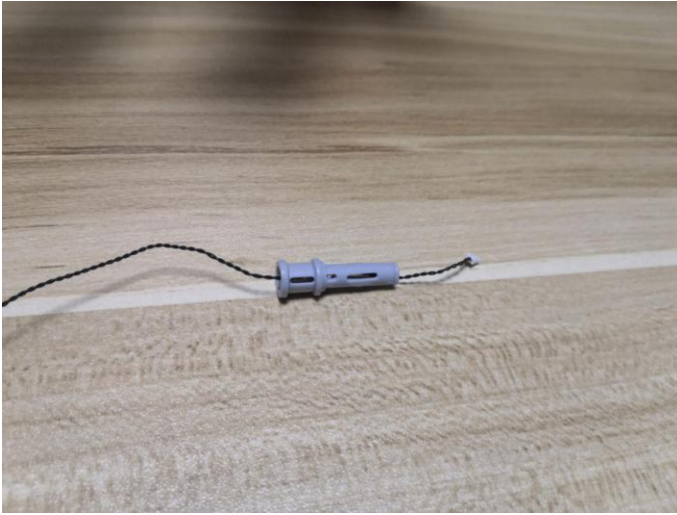
Take a 15cm connecting cable, a warm white strip light, assemble them as per below.



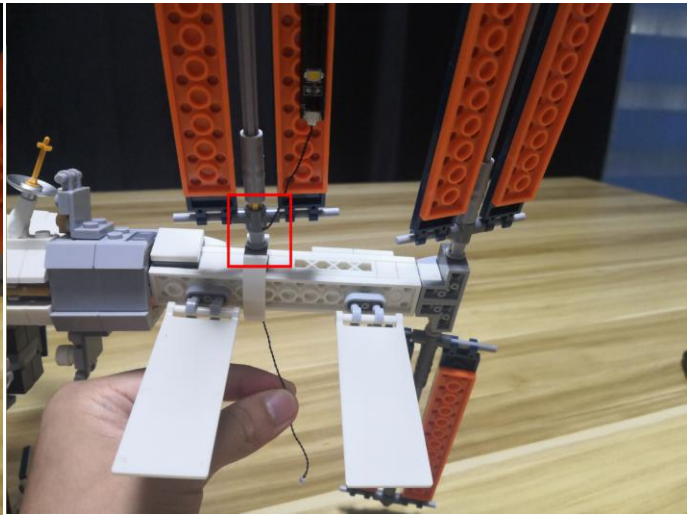
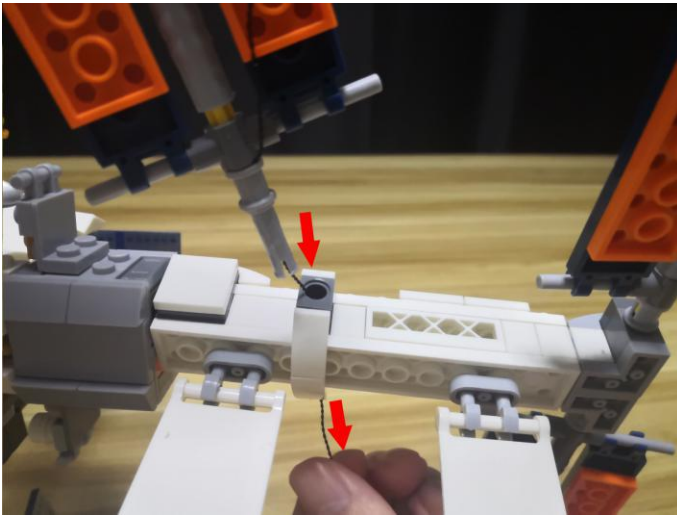
Stick the strip light to the following place, pull the cable rightward (note to place the solar panel in the right direction).



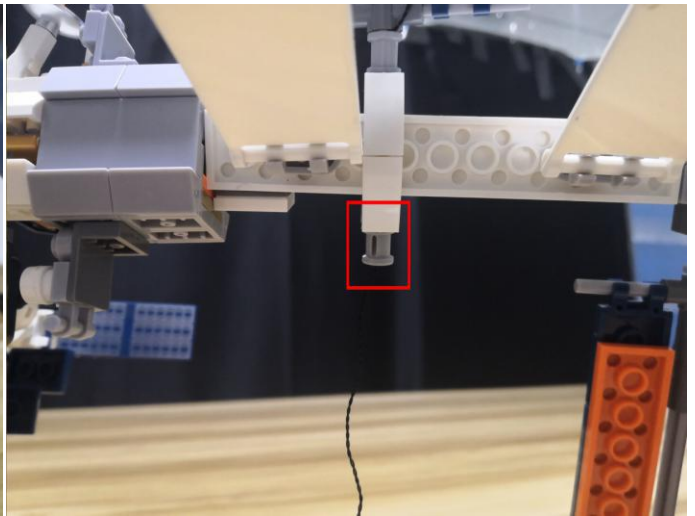
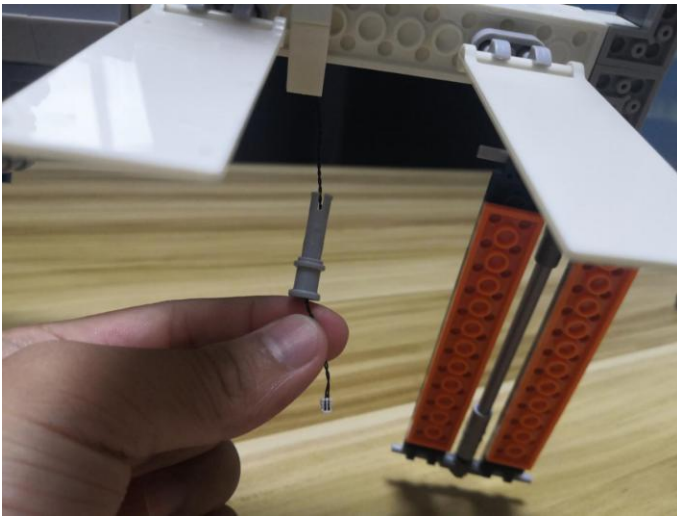
Thread the cable through the following piece (note to thread the cable in the right direction), reconnect the piece.



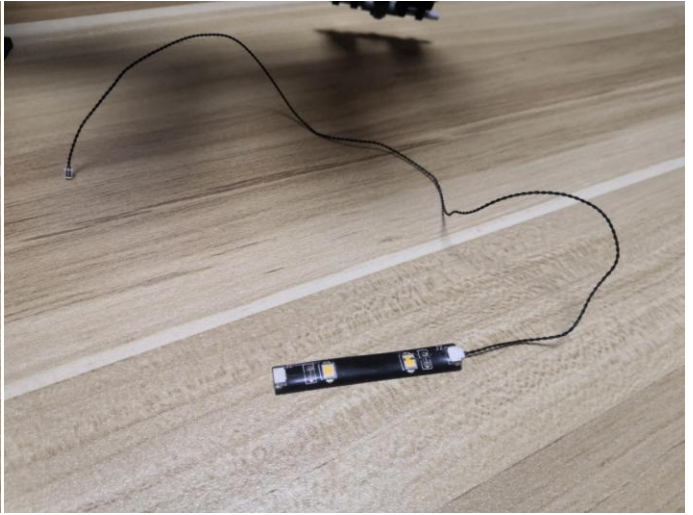
Thread the cable through the following hole, reconnect the solar panel.



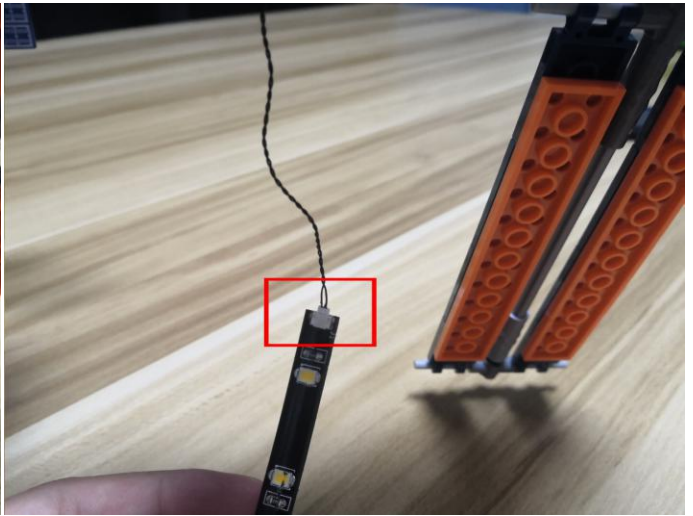
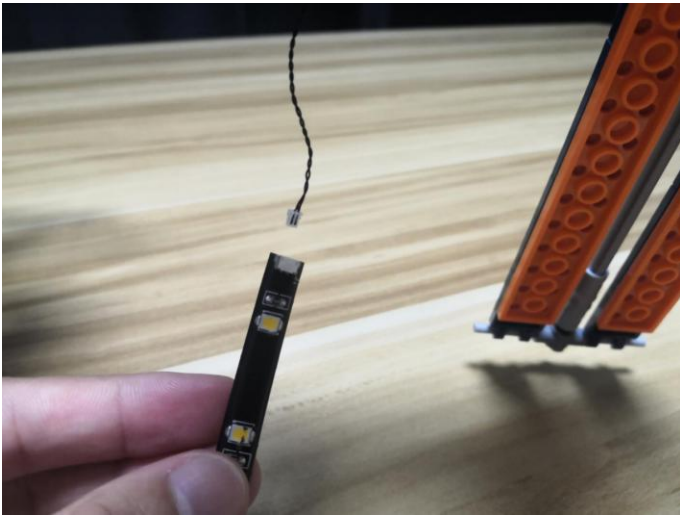
Thread the cable through the following piece, reconnect this piece (with the smaller side facing up).



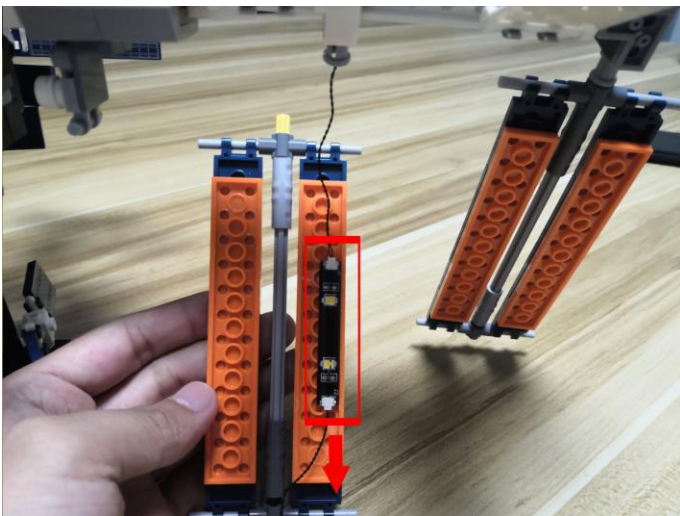
Take a 30cm connecting cable, a warm white strip light, assemble them as per below.



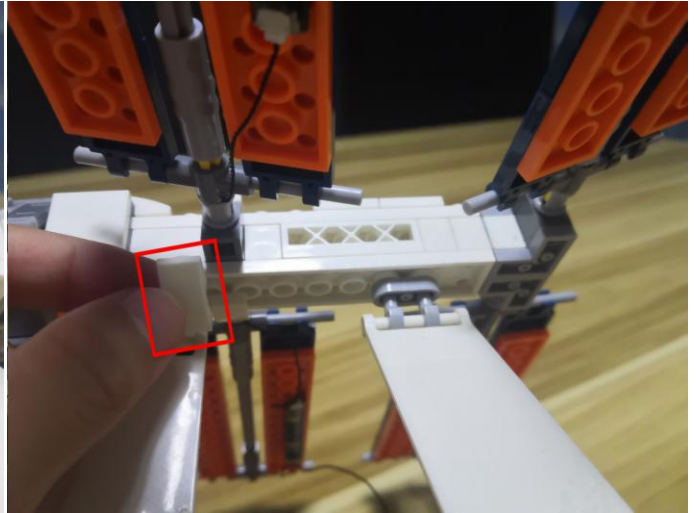
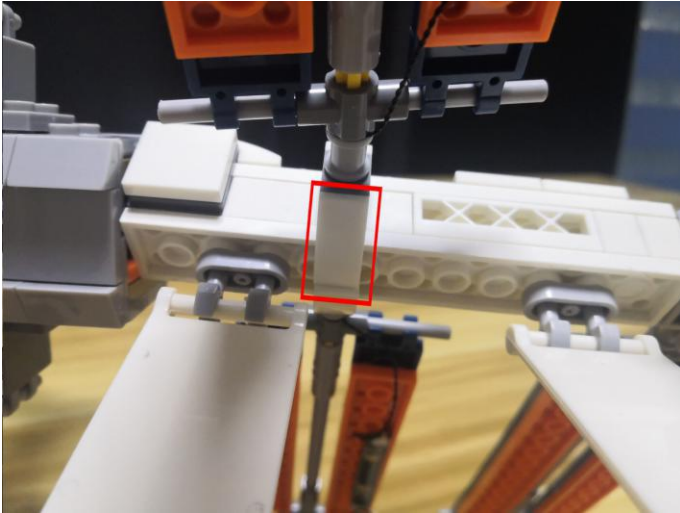
Connect the following cable to the strip light.



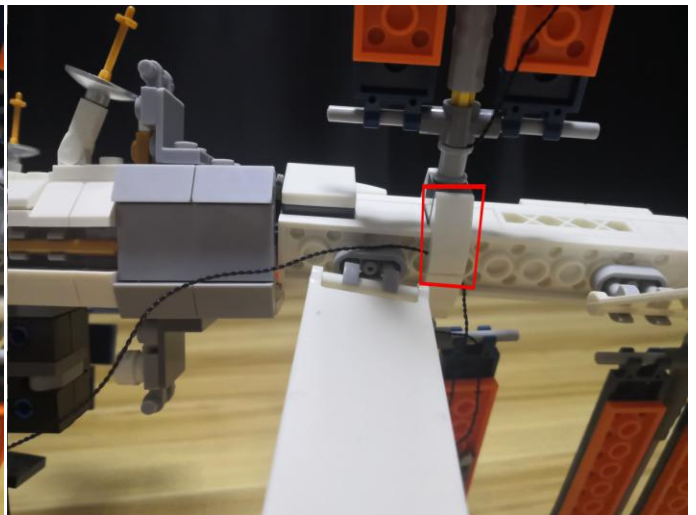
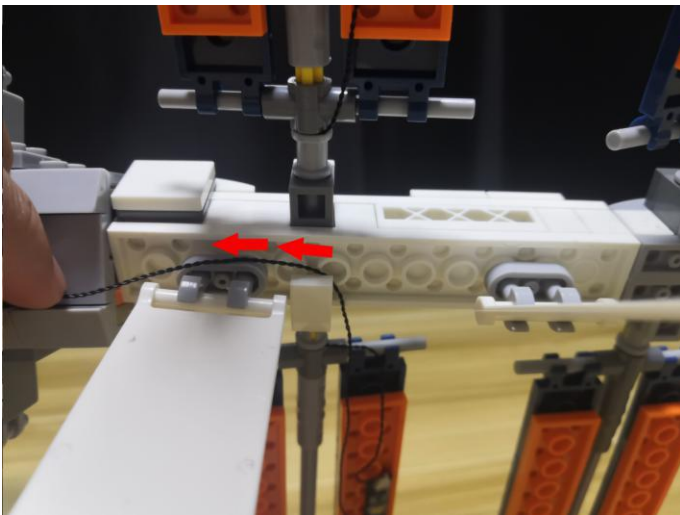
Stick the strip light to the following place on the solar panel, pull the 30cm connecting cable down, reconnect the solar panel.



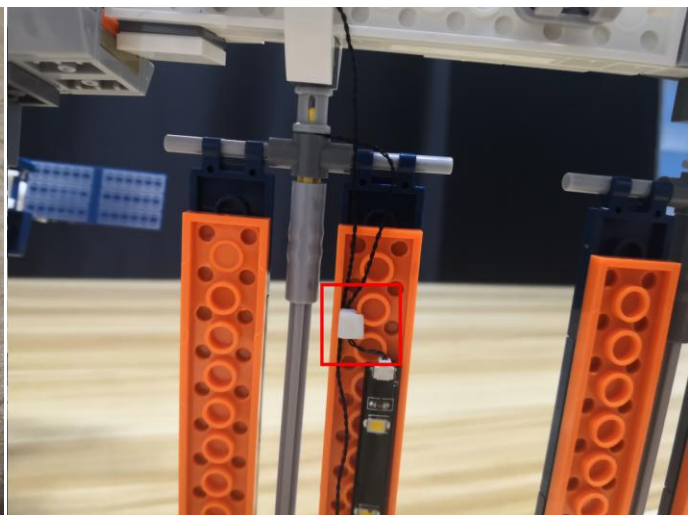
Disconnect the following piece.



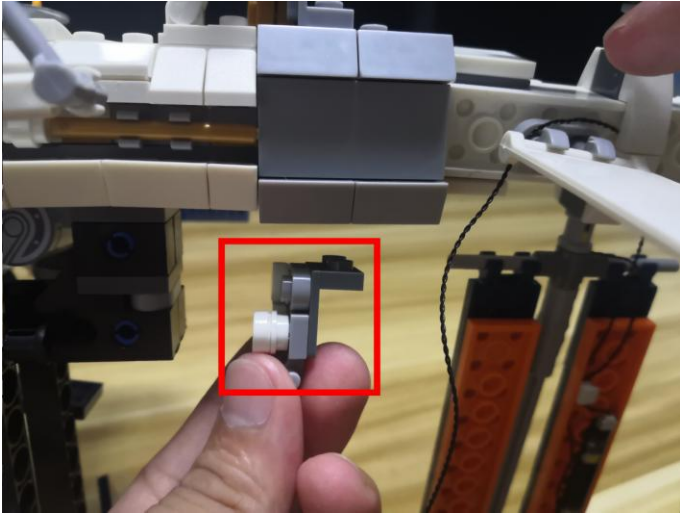
Place the cable as per below before reconnecting the piece.



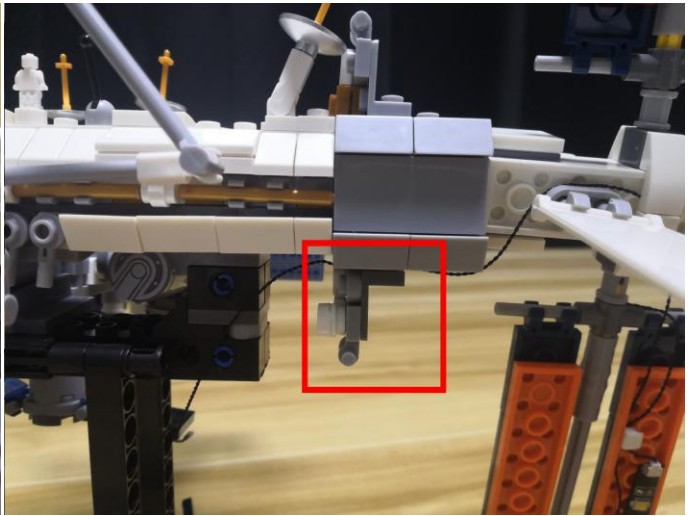
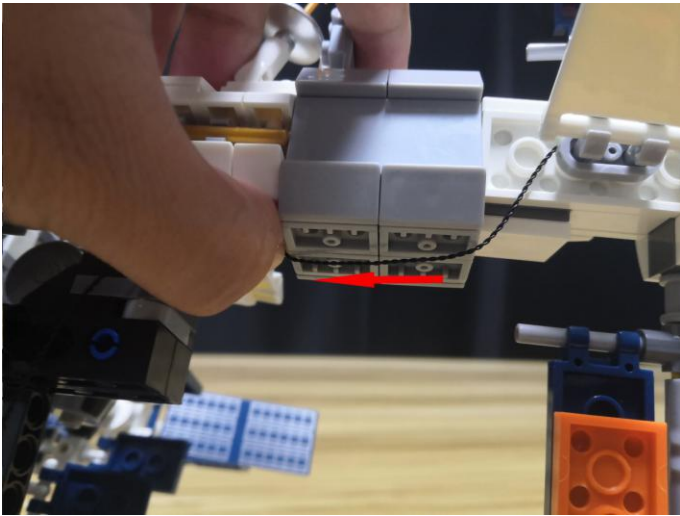
Take an adhesive square, stick it to the cable as per below.



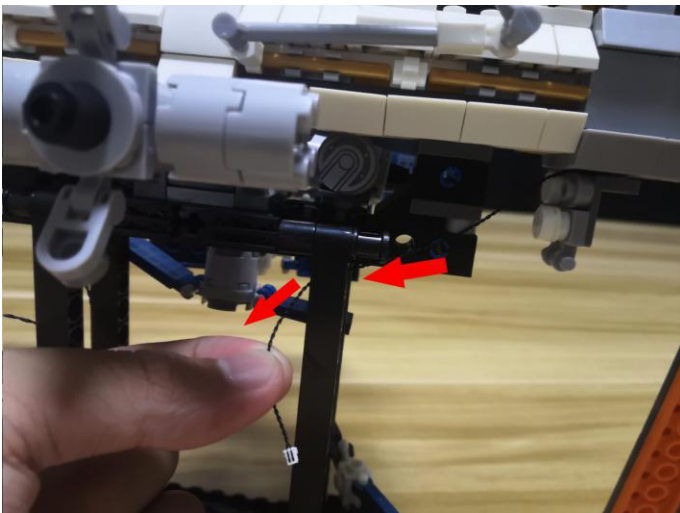
Remove the following piece.



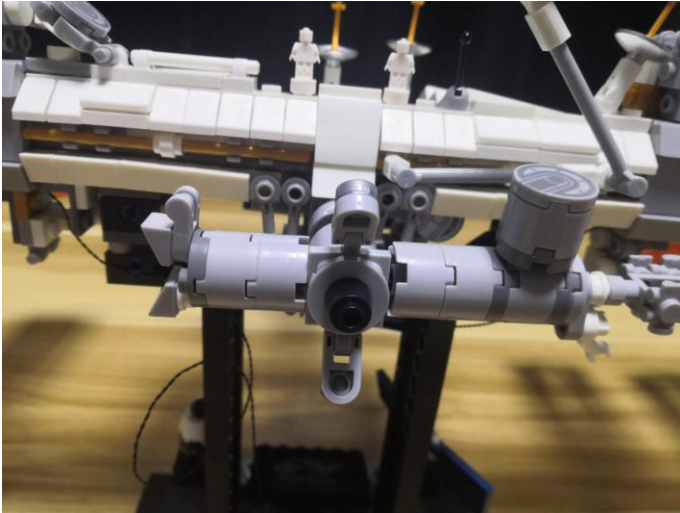
Place the cable as per below before reconnecting the piece.



Thread the cable through the following black hole.



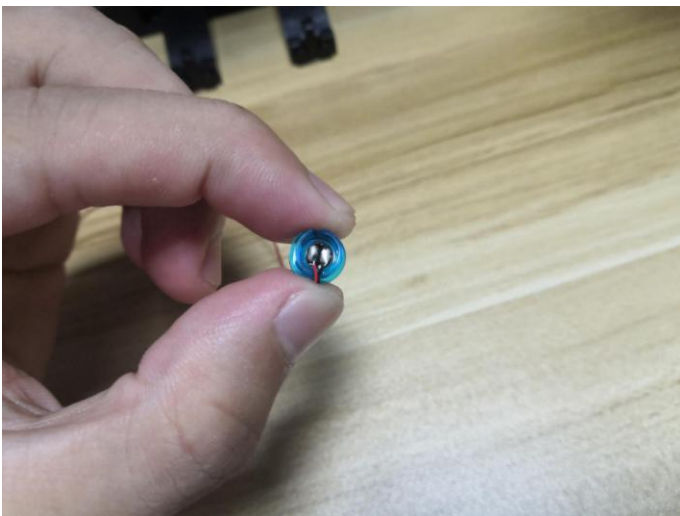
Turn to the following place.



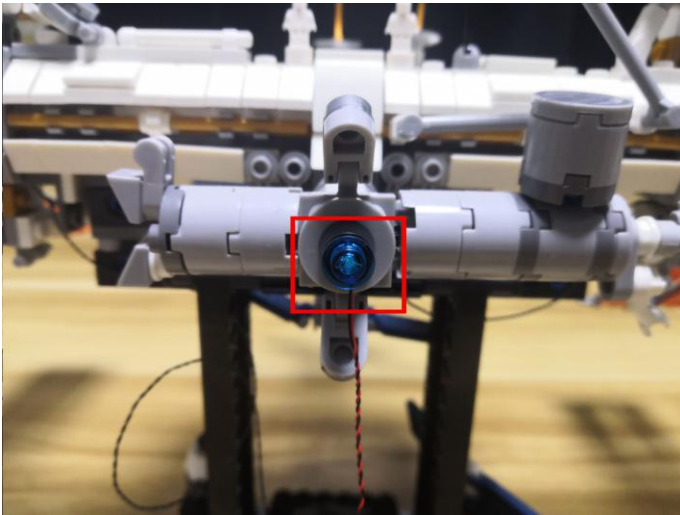
Take a 15cm blue dot light, a 1x1 blue round plate.



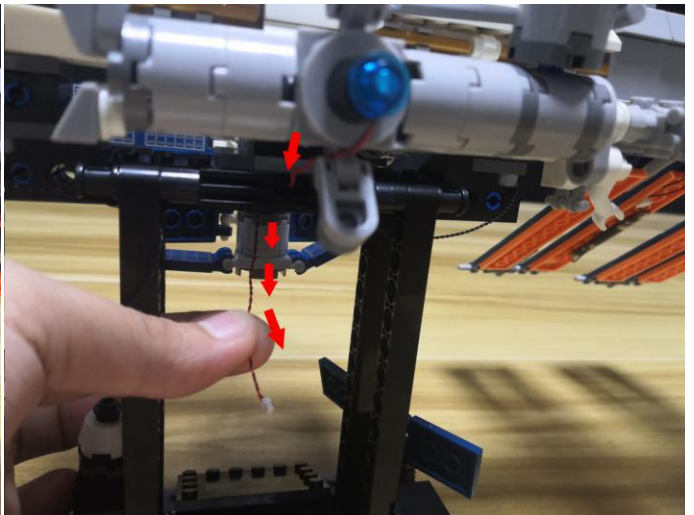
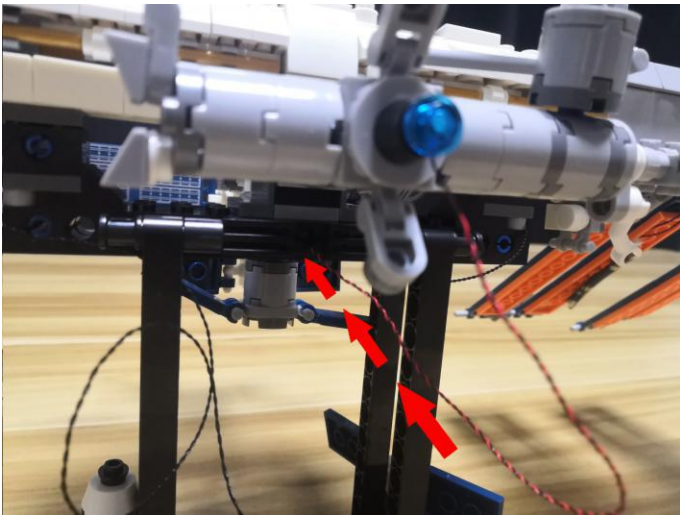
Place the light inside the round plate (with lighting part facing down), stuck the cable at the opening on the round plate as per below.



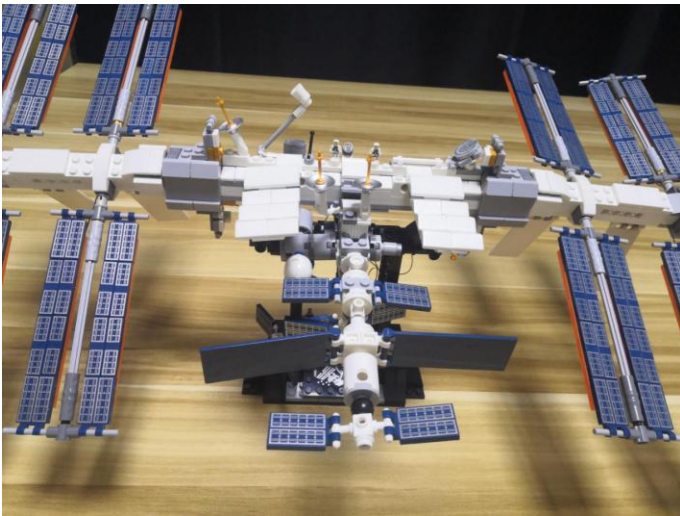
Connect the blue round plate at the following place.



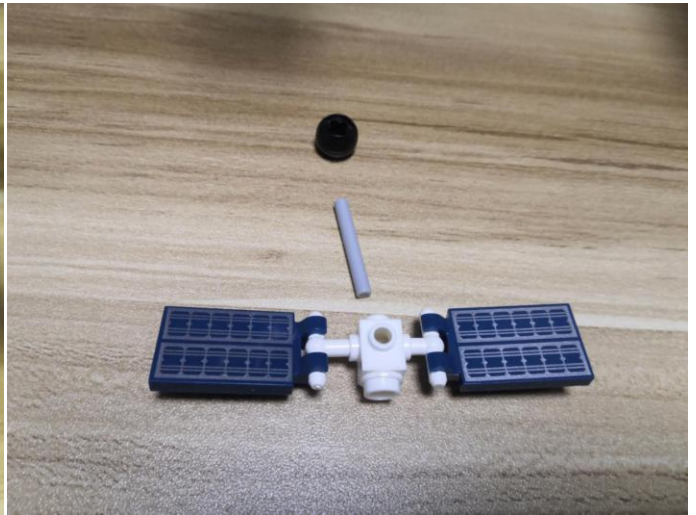
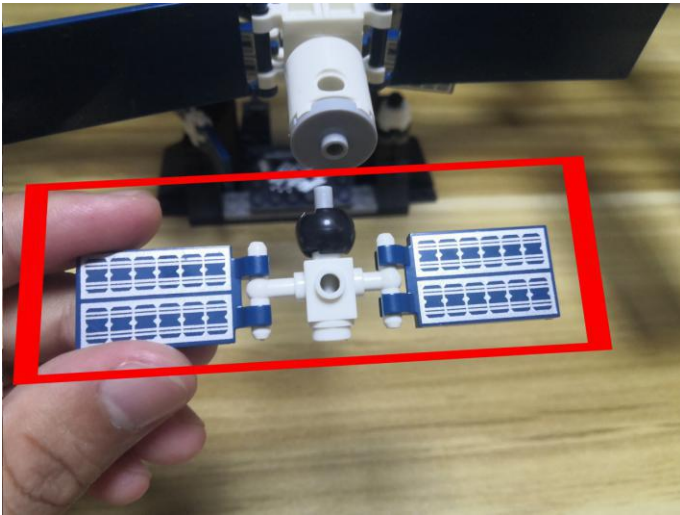
Thread the cable through the following hole between the supports, pull the cable out from the back.



Turn to the other side.



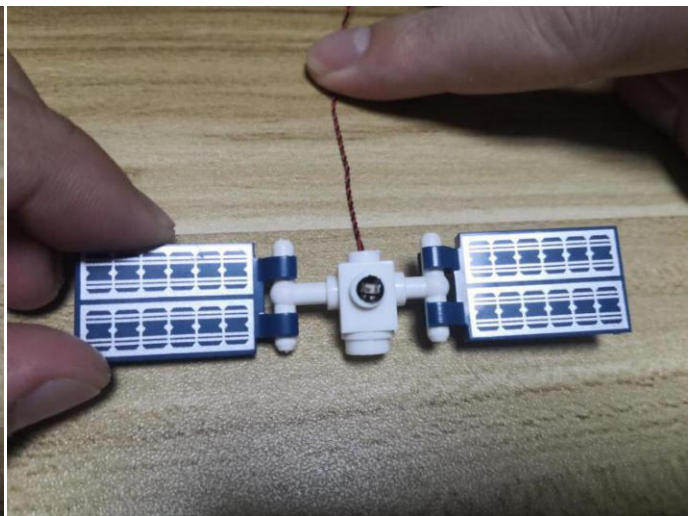
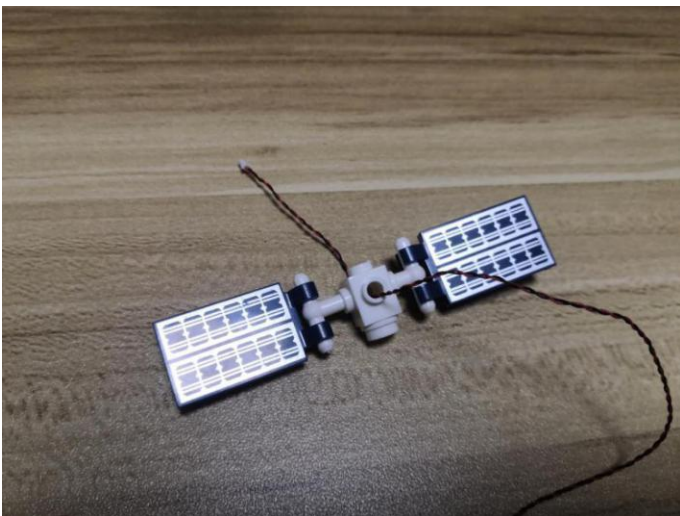
Remove the following piece and disassemble it as per below.



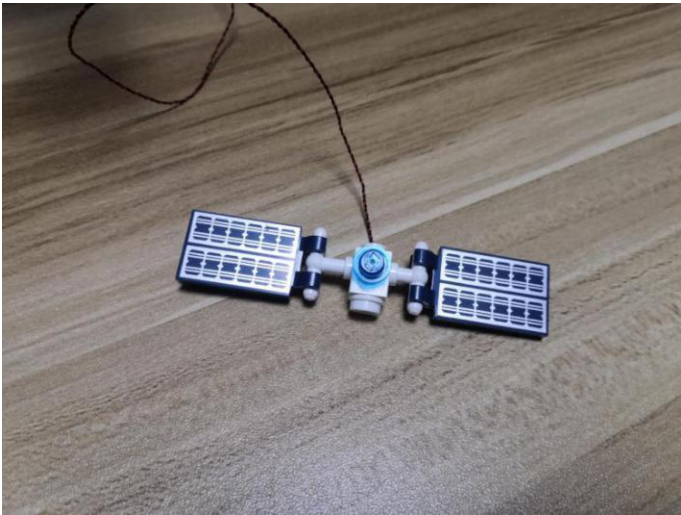
Take a 30cm Flashing Blue Dot Light, a blue round plate.



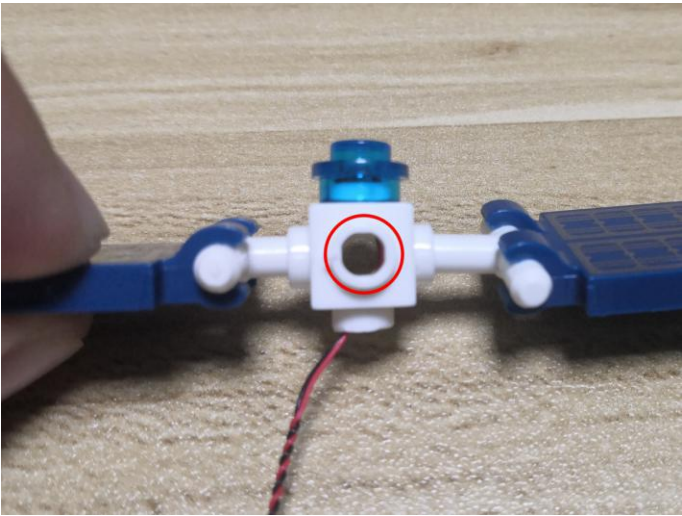
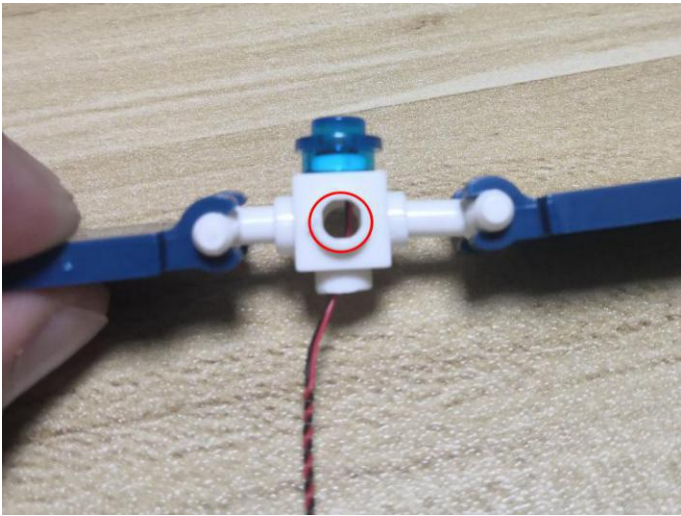
Thread the cable through the following hole, pull the cable out, keep the lighting part facing outside.



Connect the blue round plate over.



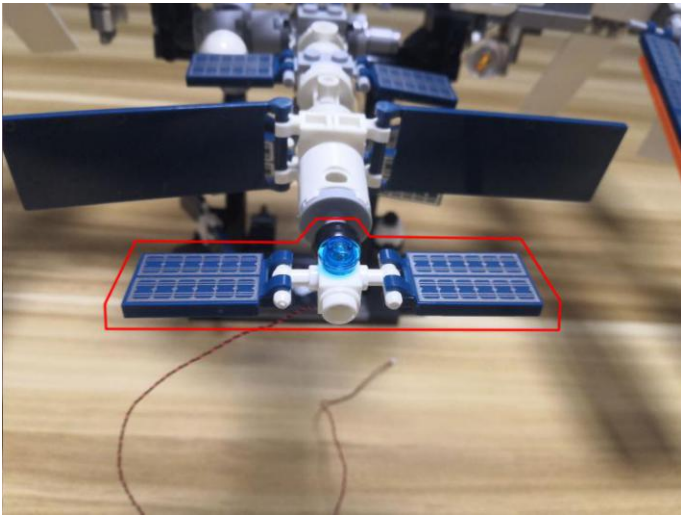
Move the cable inside the white piece aside with the tweezer.



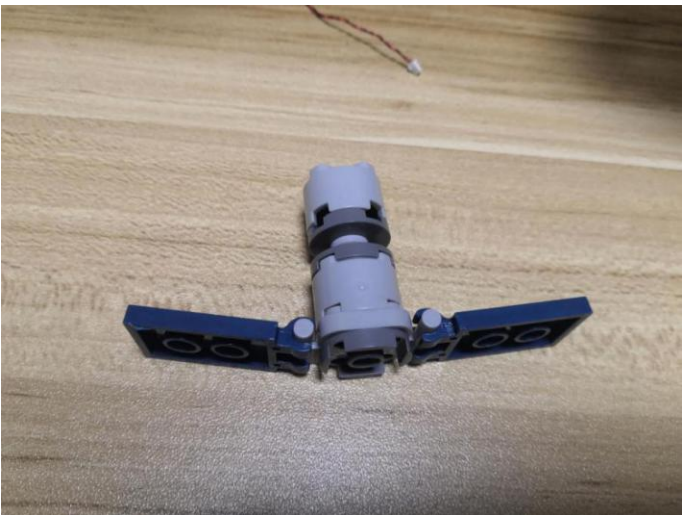
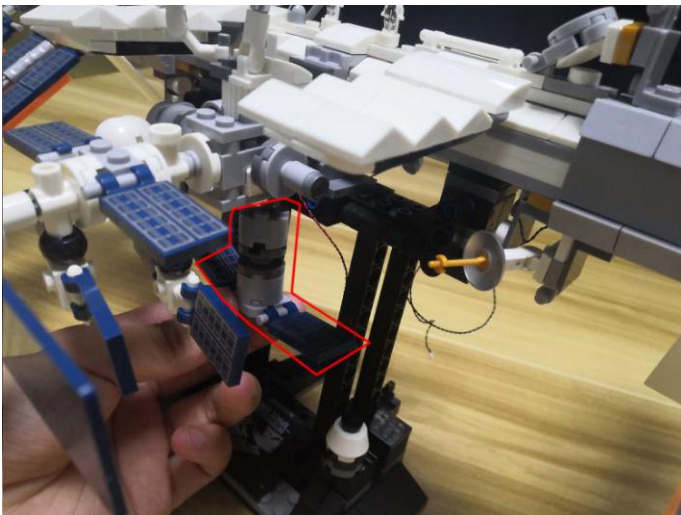
Reconnect the other pieces we removed before.



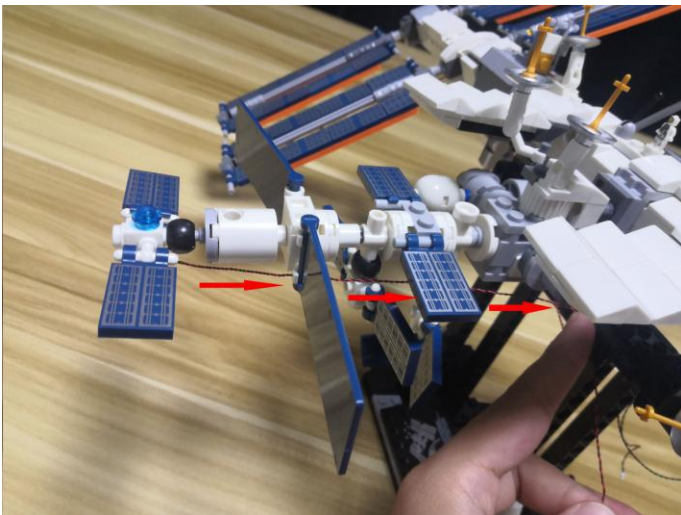
Reconnect this part.



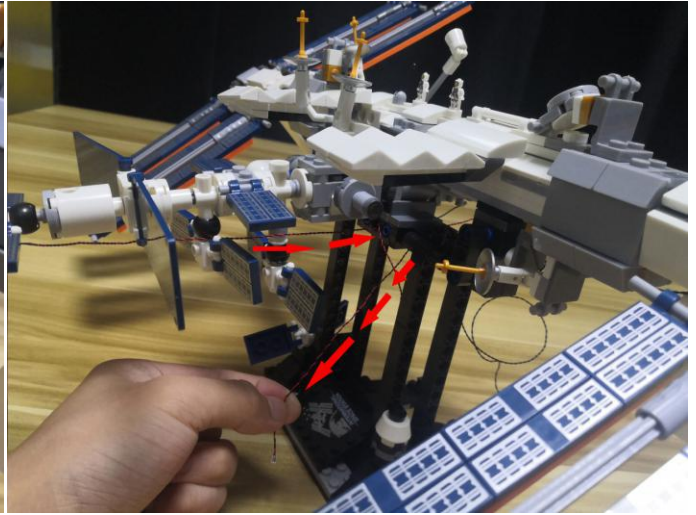
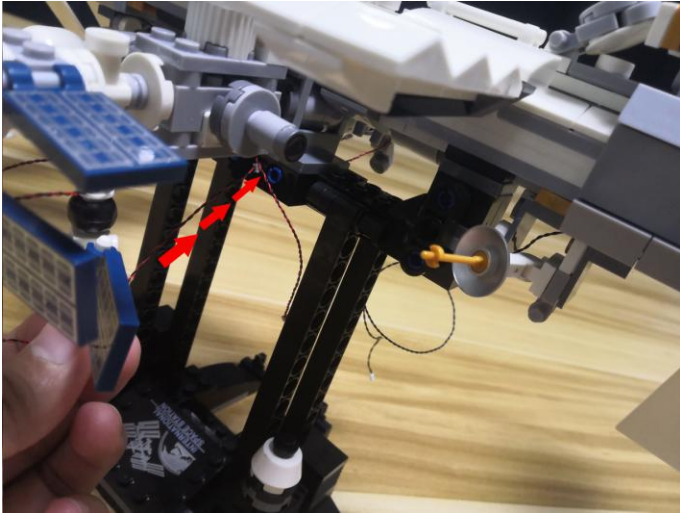
Remove the following piece.



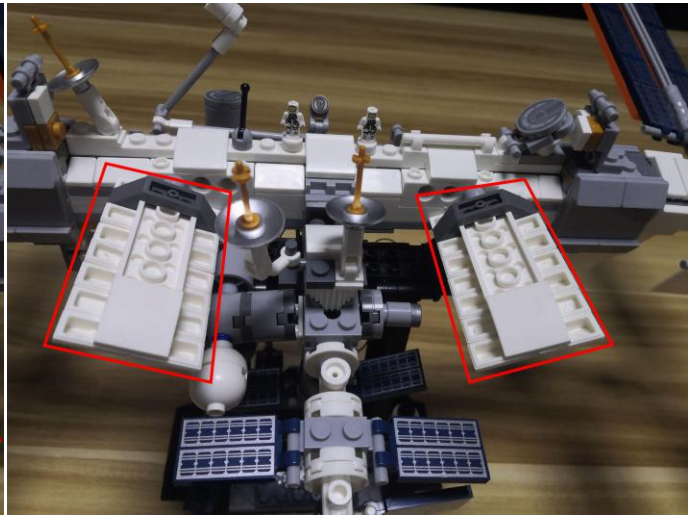
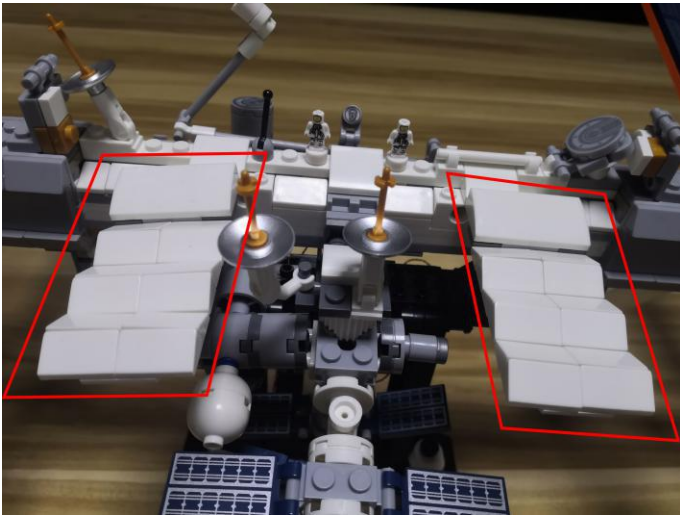
Straighten the cable as per below.



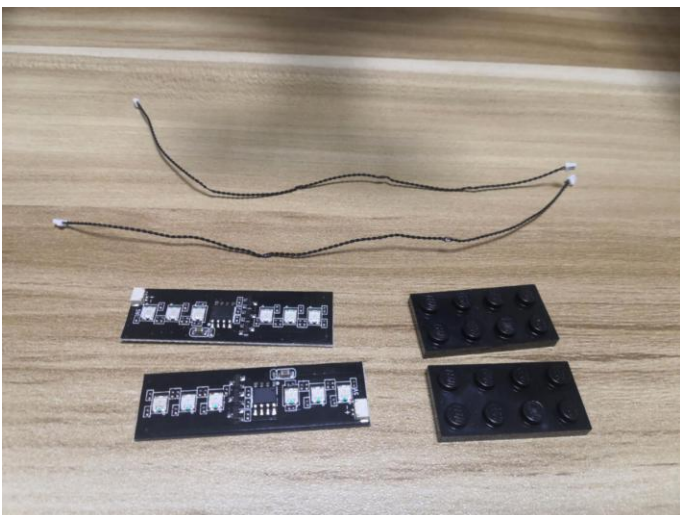
Thread the cable through the following black hole, pull the cable out from the back.



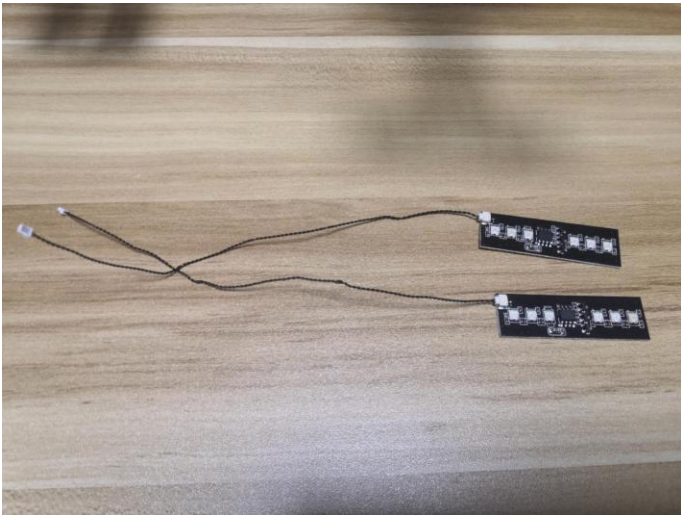
Turn to the hot air flow control panels, turn them over.



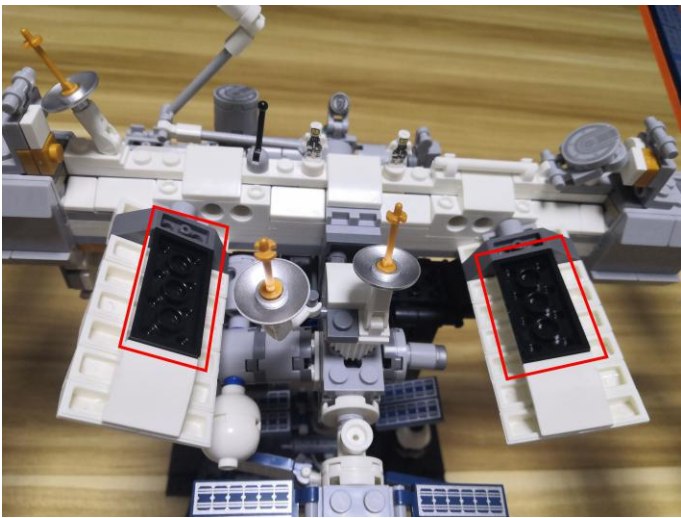
Take 2 black 2x4 pieces, two 15cm connecting cables, 2 Multi Colour Background Lights.



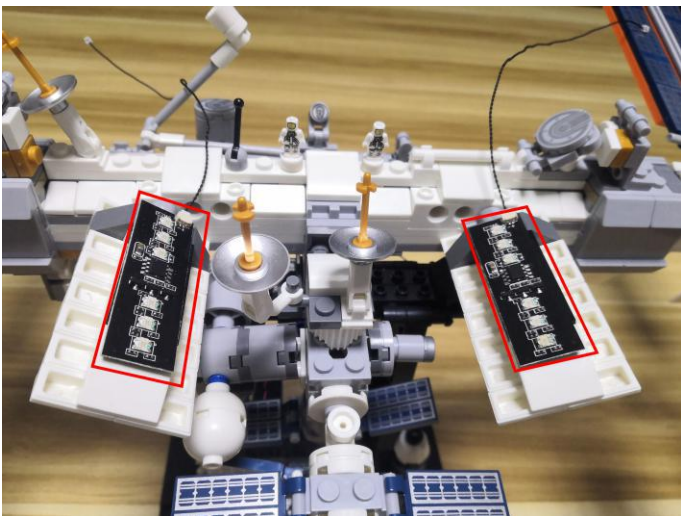
Connect the connecting cables to the Multi Colour Background Lights as per below.



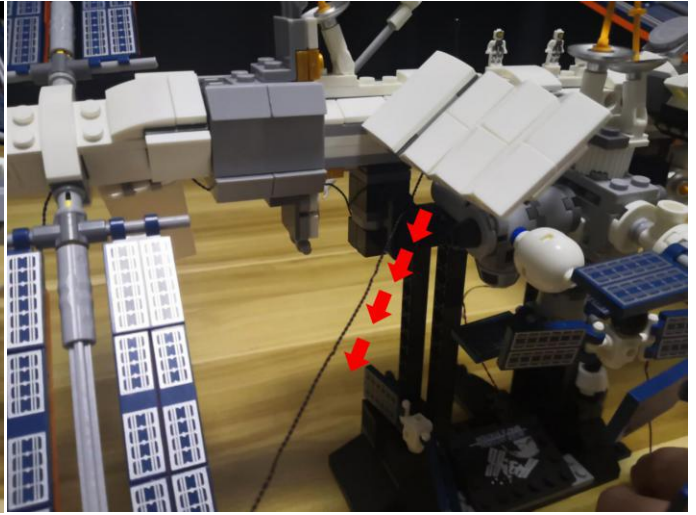
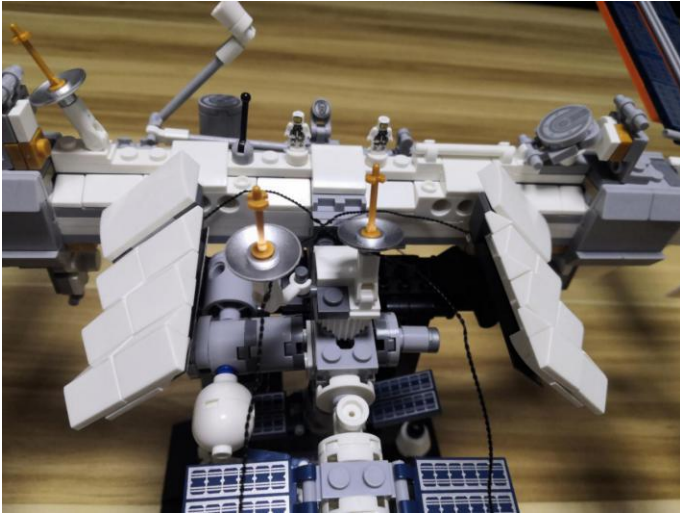
Connect the black pieces to the following places.



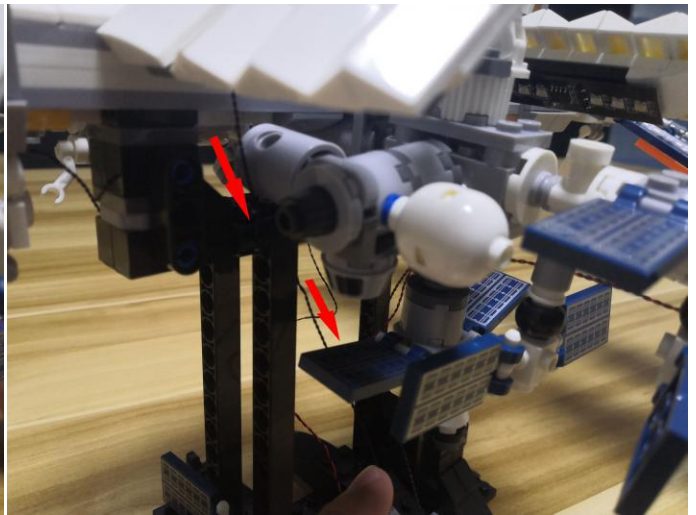
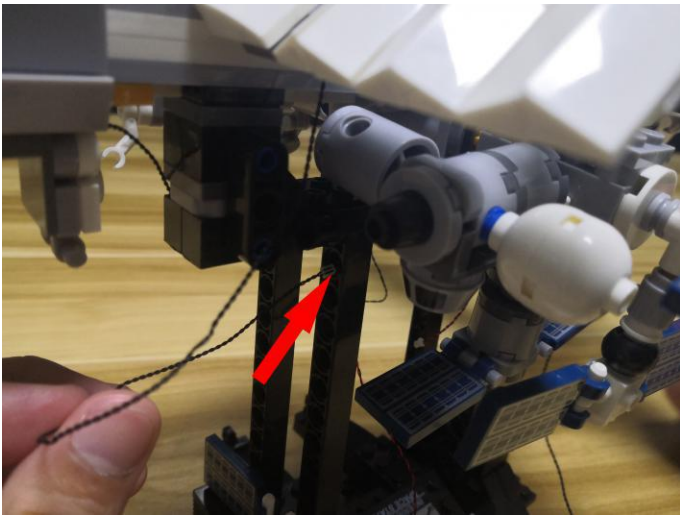
Stick the Multi Colour Background Lights to the following places (note to place the cables in the right direction).



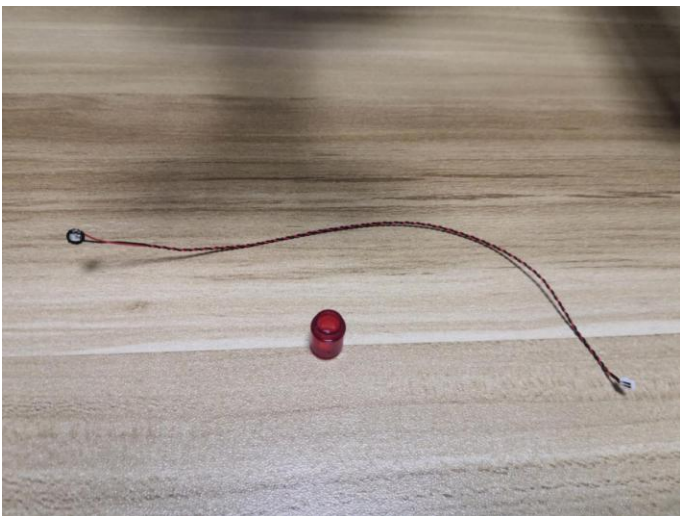
Turn the panels back, pull the cables down.



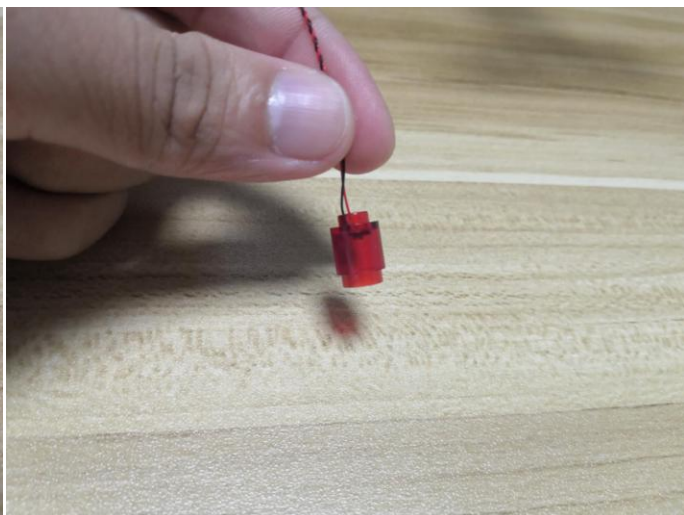
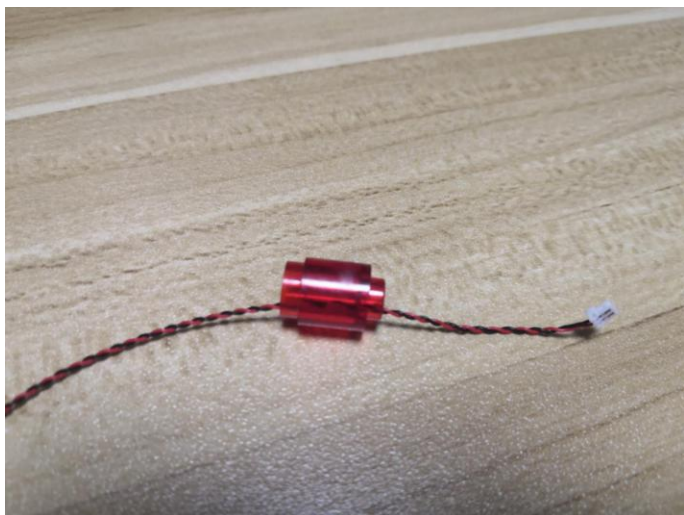
Thread the cable through the following hole, tighten the cable up, thread the cable at the other side as well.



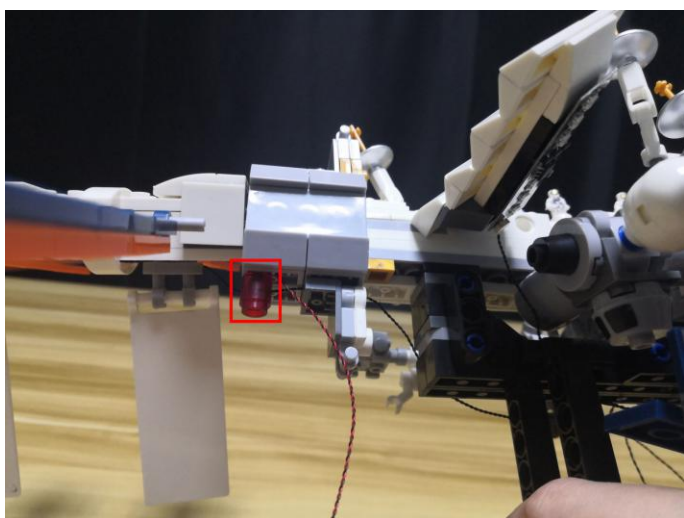
Take a 15cm red flashing dot light, a trans red 1x1 round piece.



Thread the cable through the round piece (note to thread it in the right direction).



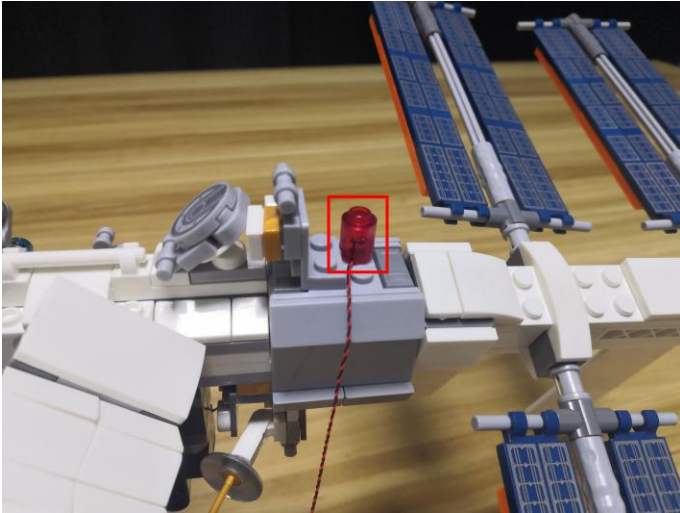
Connect the round piece to the following place.



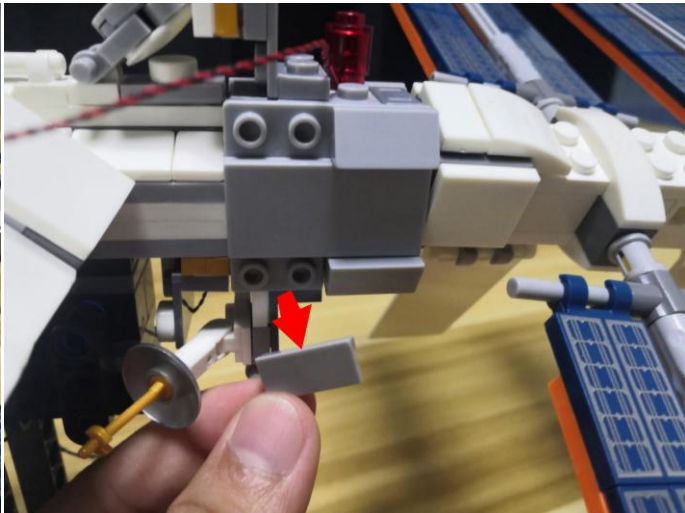
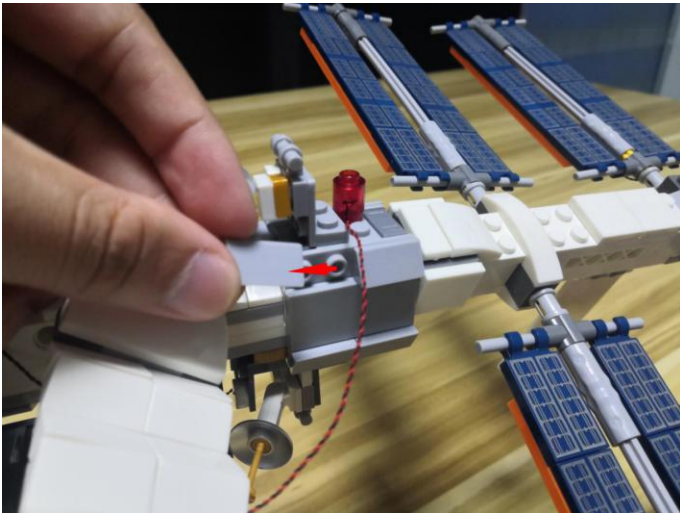
Take a 15cm red flashing dot light, a trans red 1x1 round piece, connect the light to the wider side of the round piece.



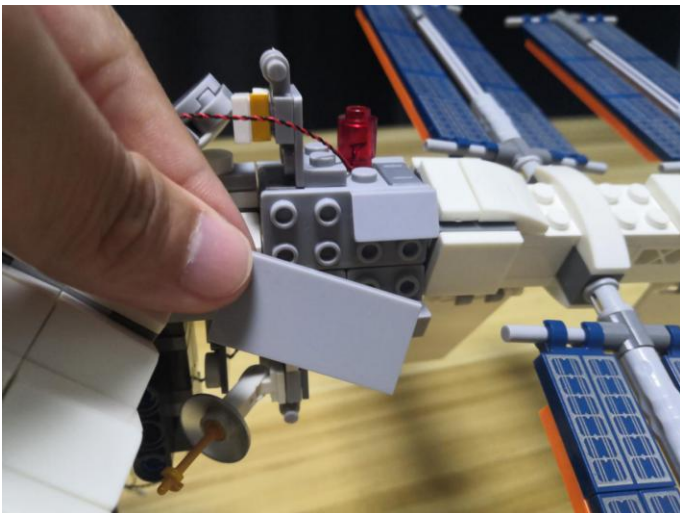
Connect the round piece to the following place.



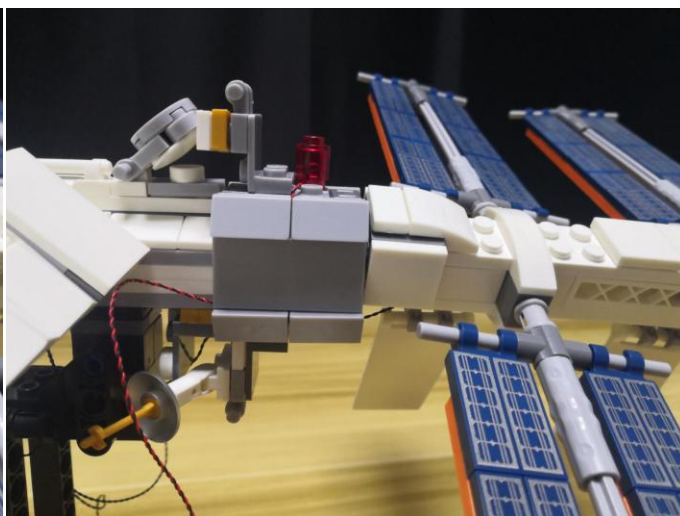
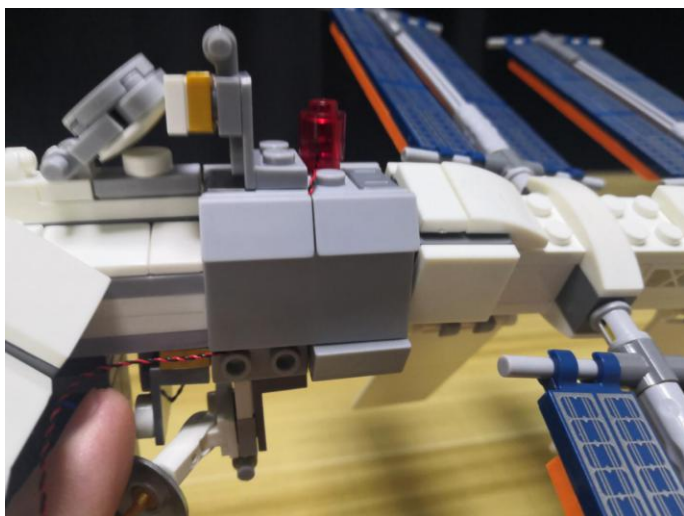
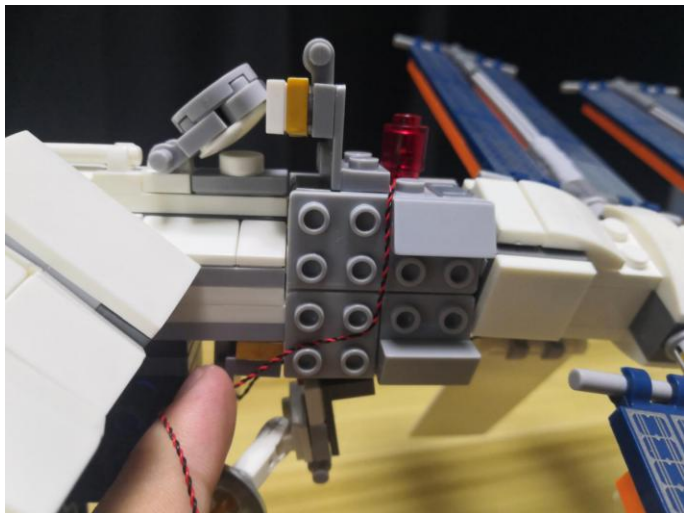
Disconnect the following pieces.



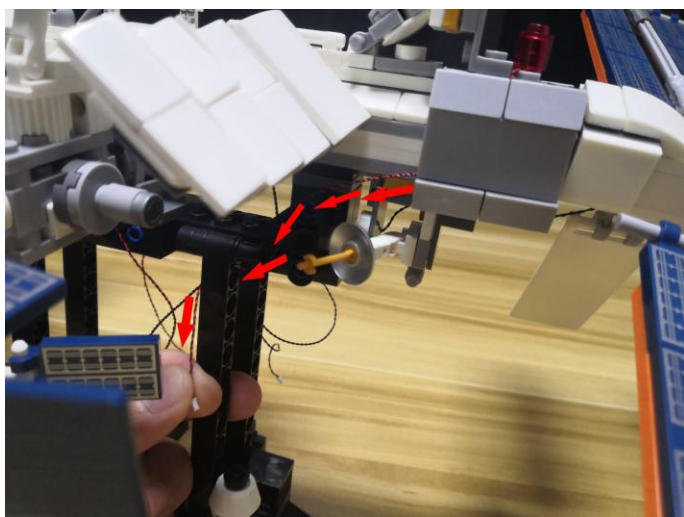
Continue to disconnect the following piece.



Place the cable as per below, reconnect the 3 pieces we disconnected before.



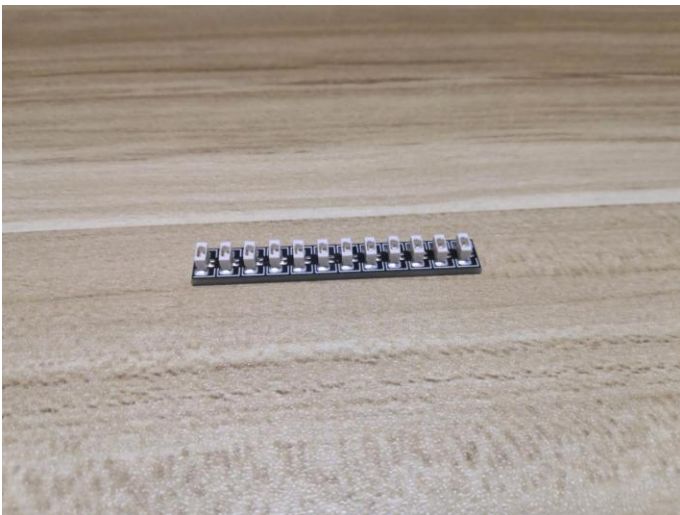
Thread the cable through the following hole, tighten the cable up.



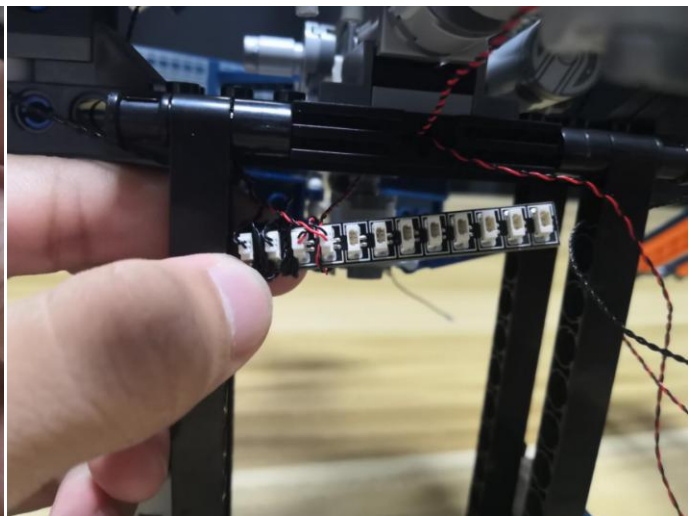
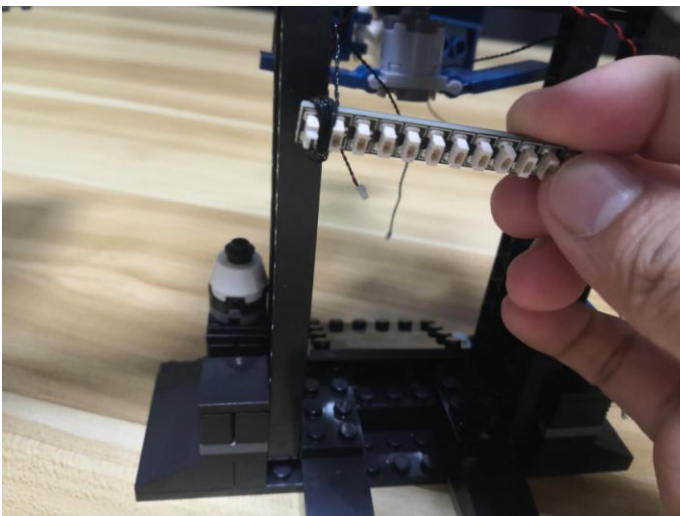
This completes installation of the lights for the body of the space station.



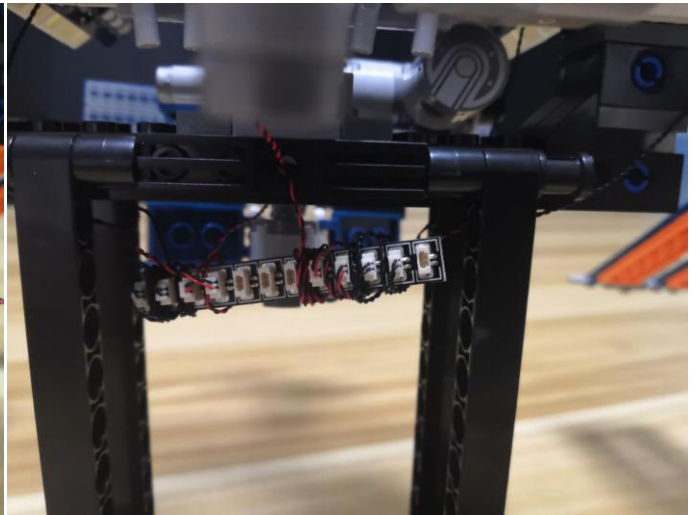
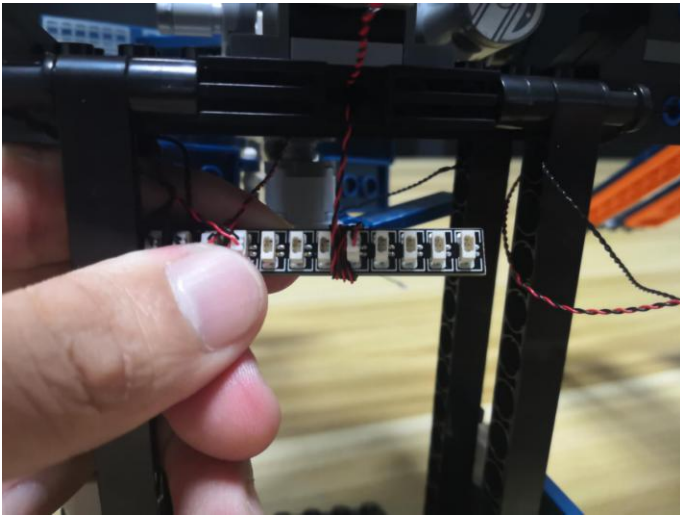
Take a 12-port expansion board.



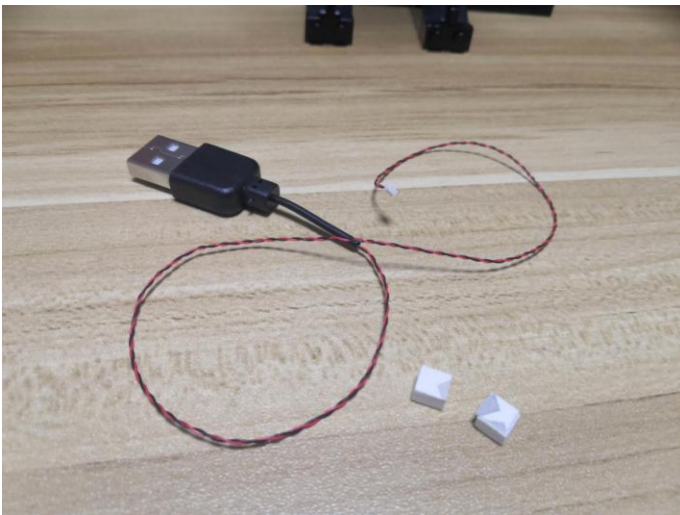
Connect the cables from the left to the 12-port expansion board (you can tuck excess cables around the expansion board).



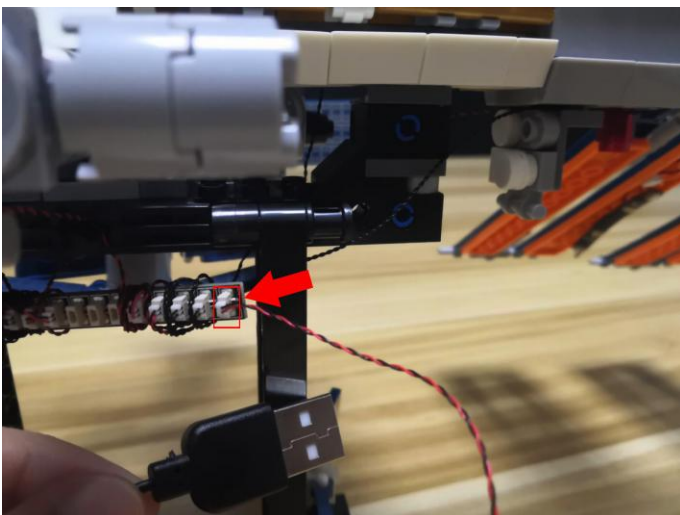
Connect the cables from the right to the expansion board.



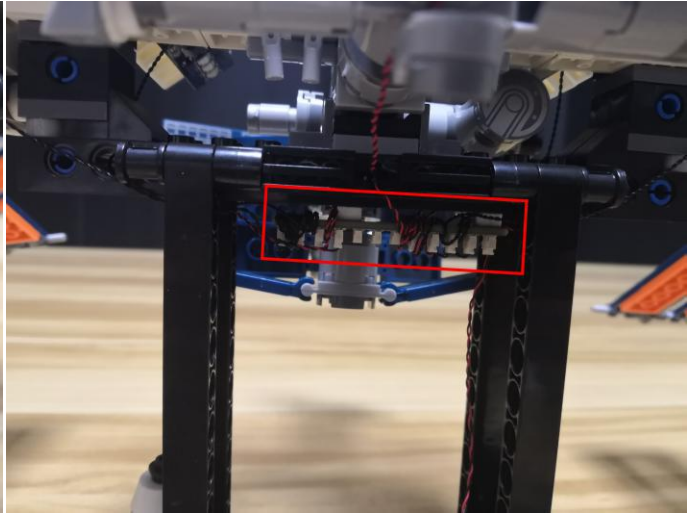
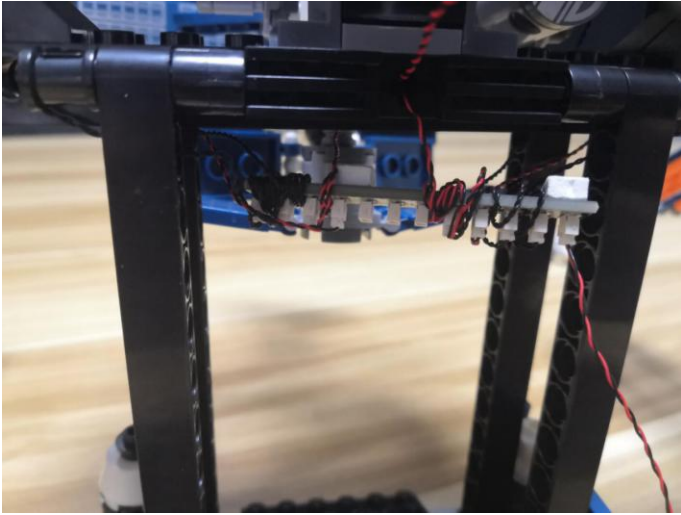
Take the USB cable, 2 adhesive squares.



Connect the USB cable to the expansion board.



Stick the adhesive squares to the back of the expansion board, stick the expansion board to the following place.



Move onto installing lights for the spaceship.



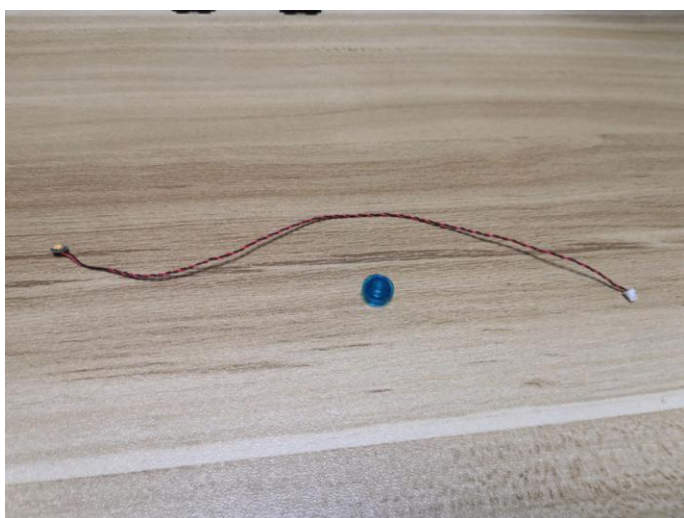
Remove the following piece.



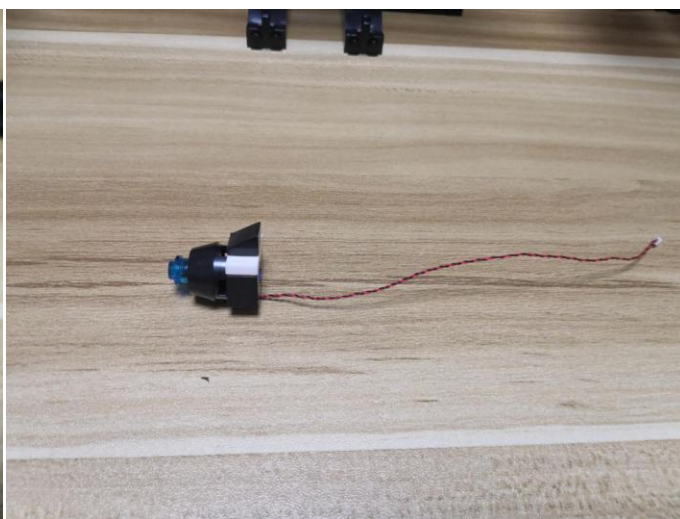
Disconnect the following gray piece.



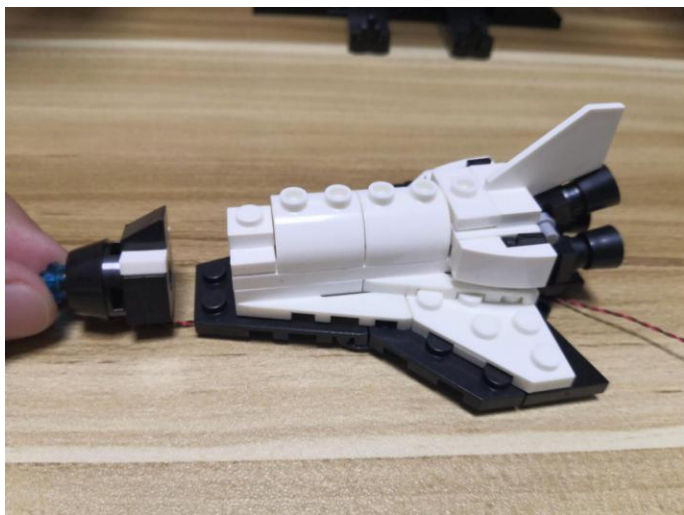
Take a 15cm warm white dot light, a blue 1x1 round plate.



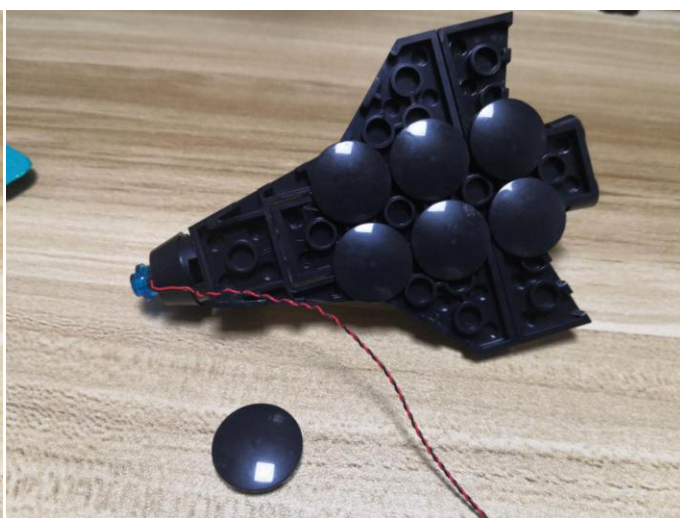
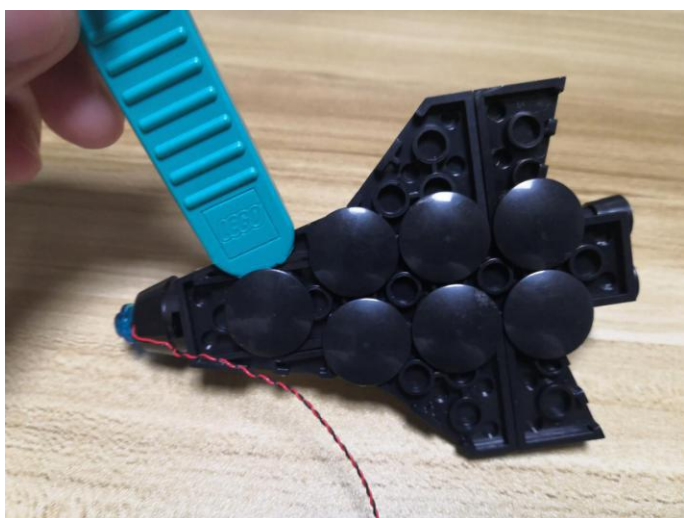
Place the light inside the blue round plate, with lighting part facing inside, connect the blue round piece to the head of the spaceship.



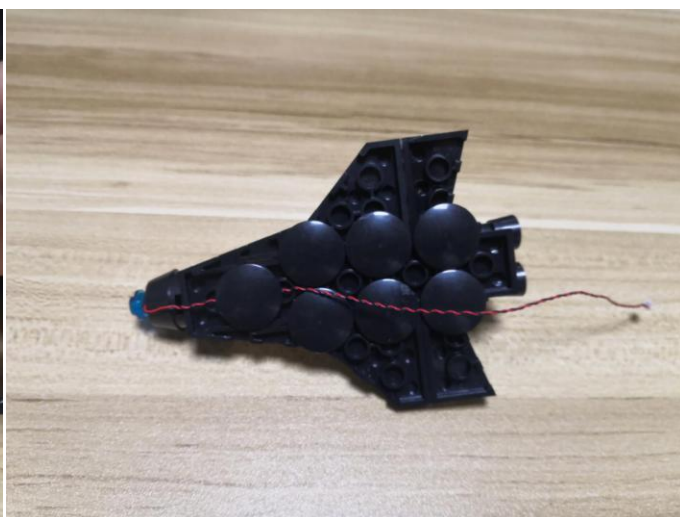
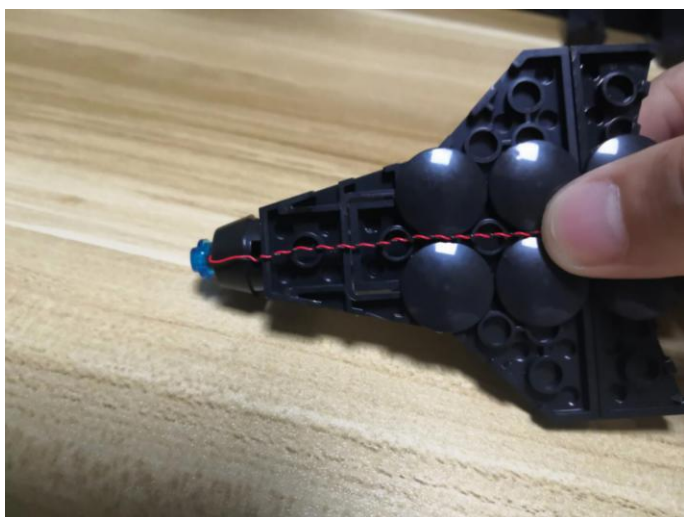
Reconnect the head.



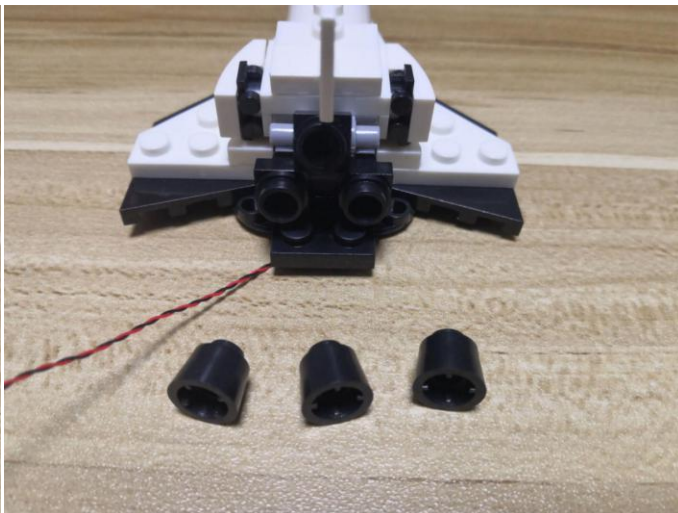
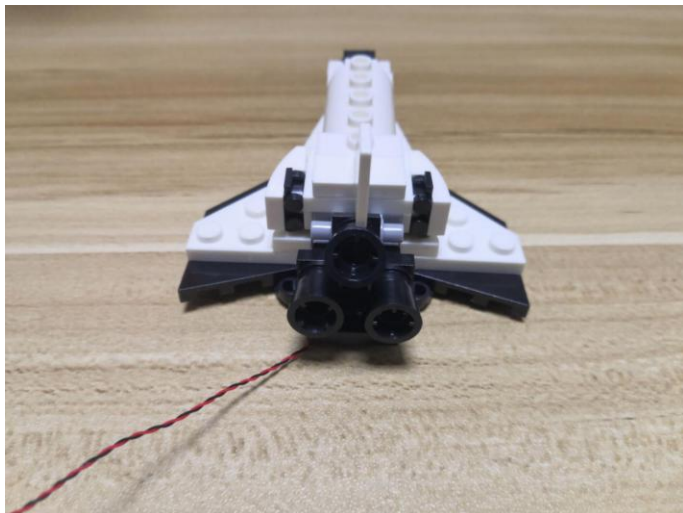
Turn to the bottom, disconnect the black round piece as per below.



Straighten the cable up, reconnect the black round piece.



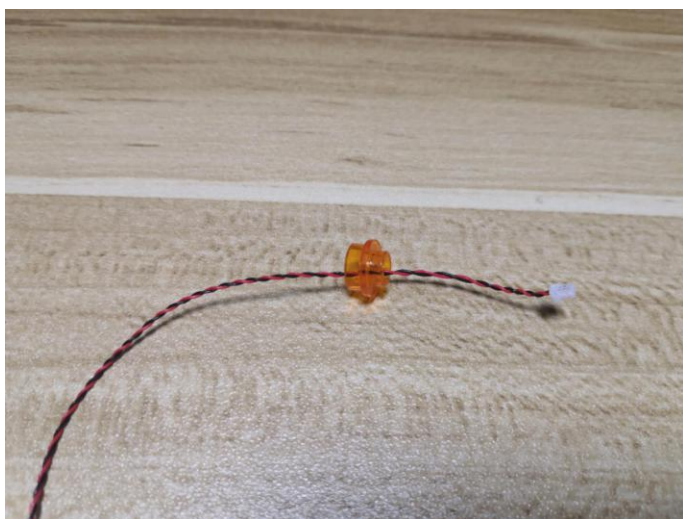
Turn to the back, disconnect the injectors.



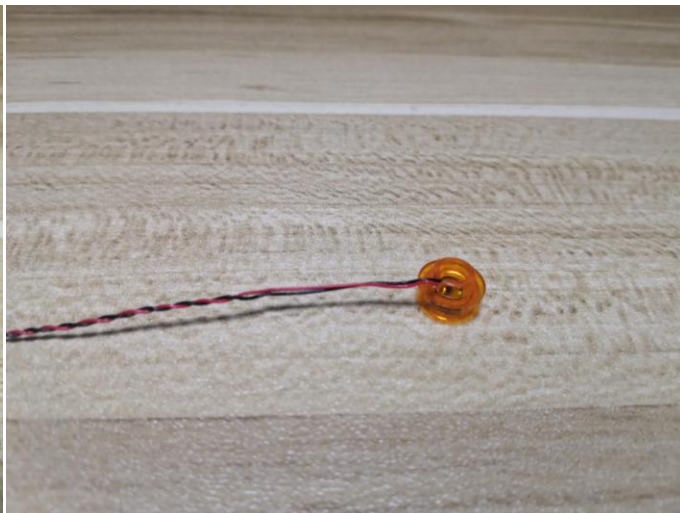
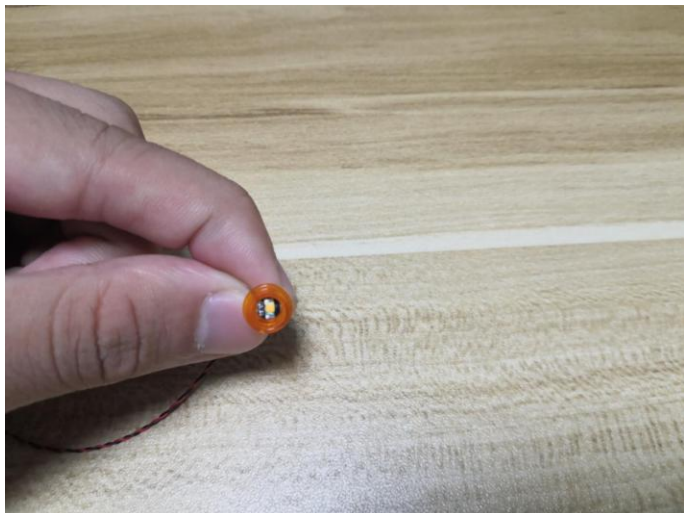
Take 3 warm white 15cm dot lights, 3 orange 1x1 round plates with hole.



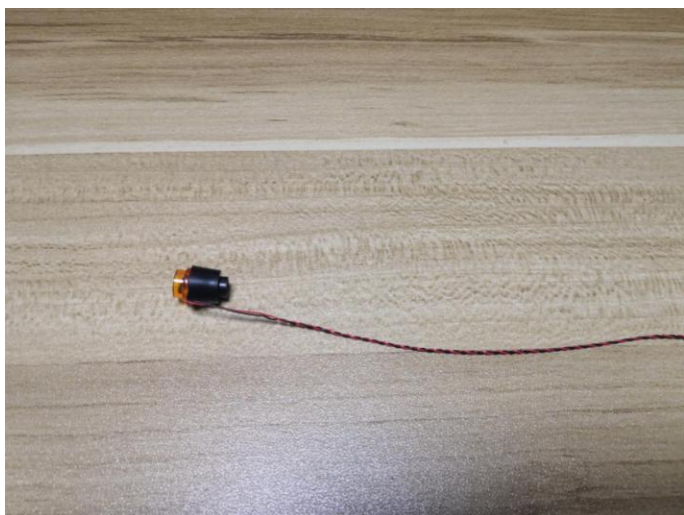
Thread the cable through the round plate as per below (note to thread it in the right direction).



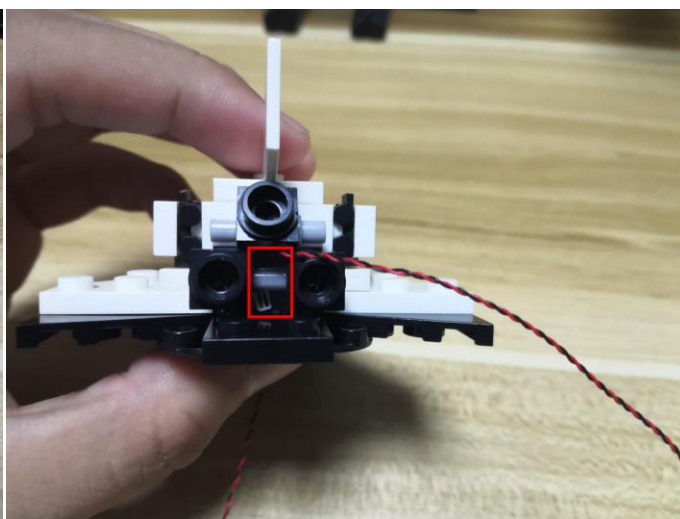
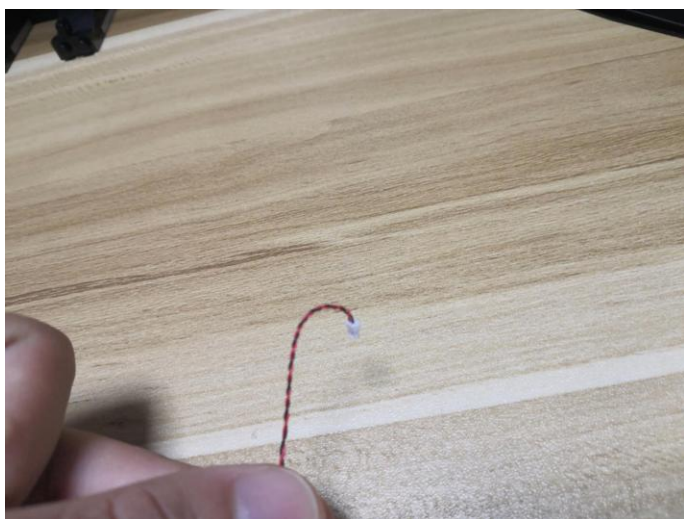
With lighting part facing up, place the cable at the opening of the round plate as per below.



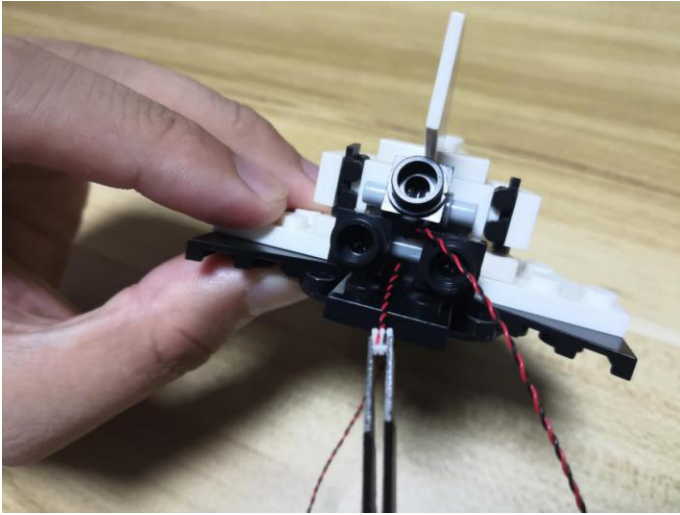
Connect the round plate on the injector as per below, connect the other 2 lights in the same way.



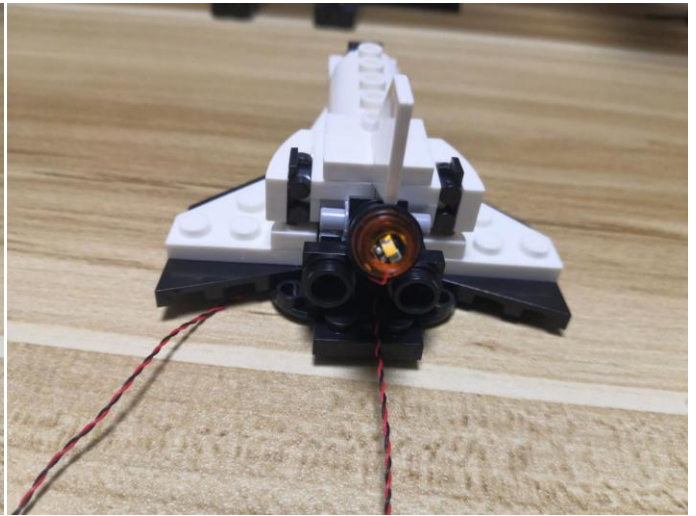
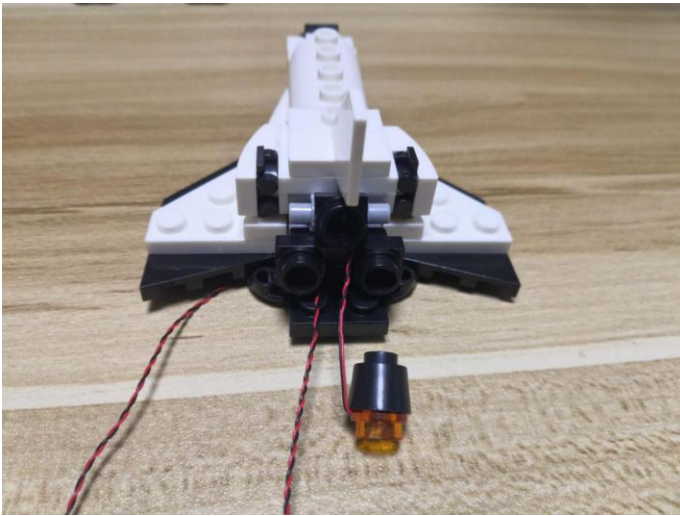
Bend the cable, and thread the cable through the following space.



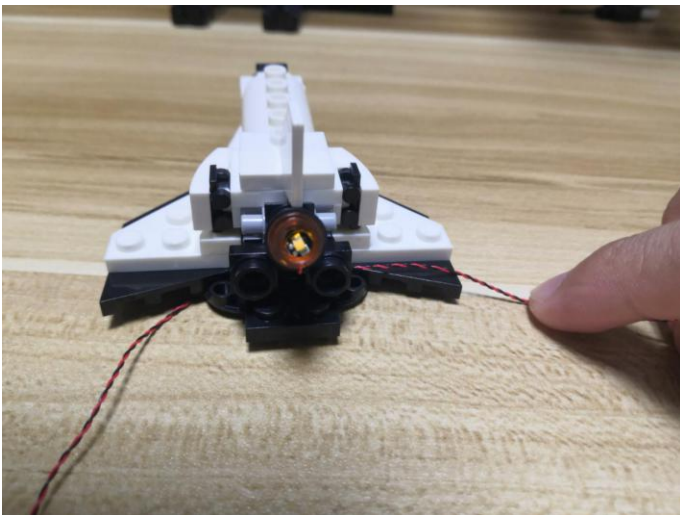
Pull the cable out with the tweezer.



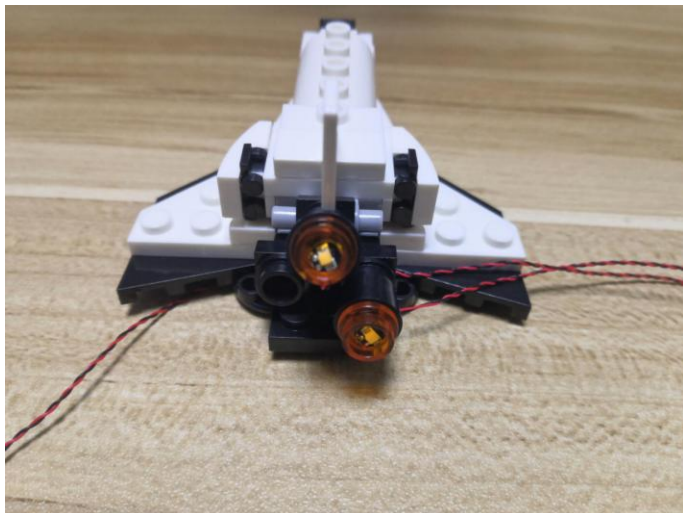
Tighten the cable up, reconnect the injector.



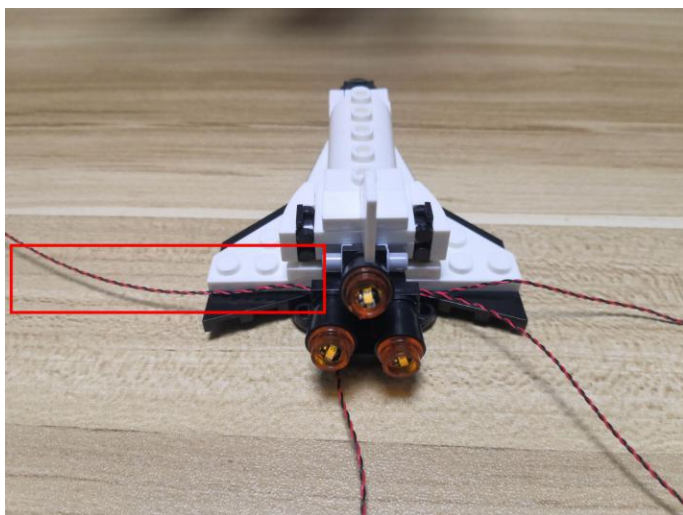
Pull the cable rightward.



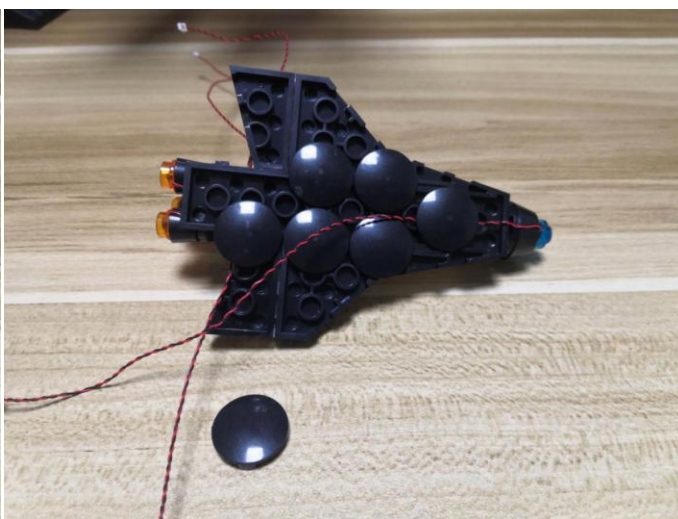
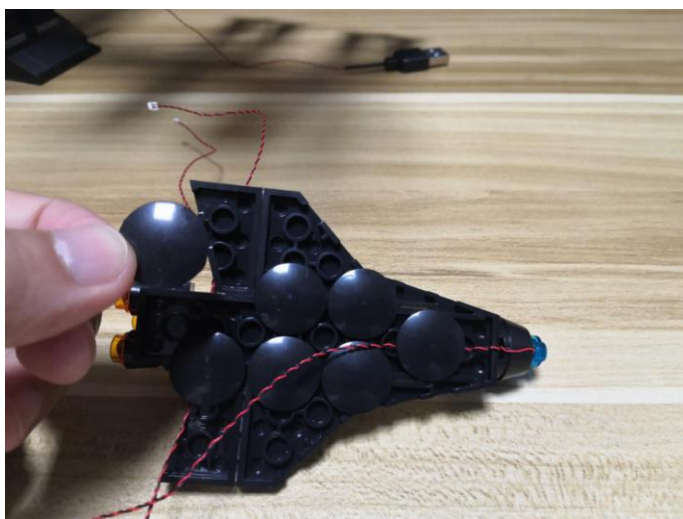
Reconnect the injector at the right side, place the cable underneath with the tweezer, pull the cable rightward.

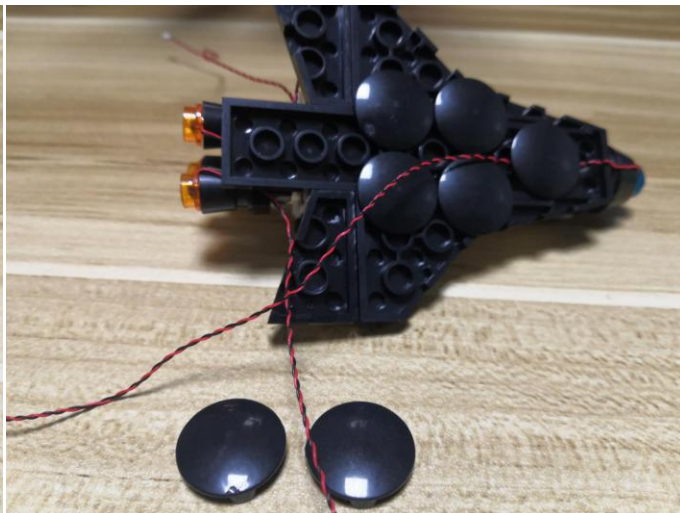
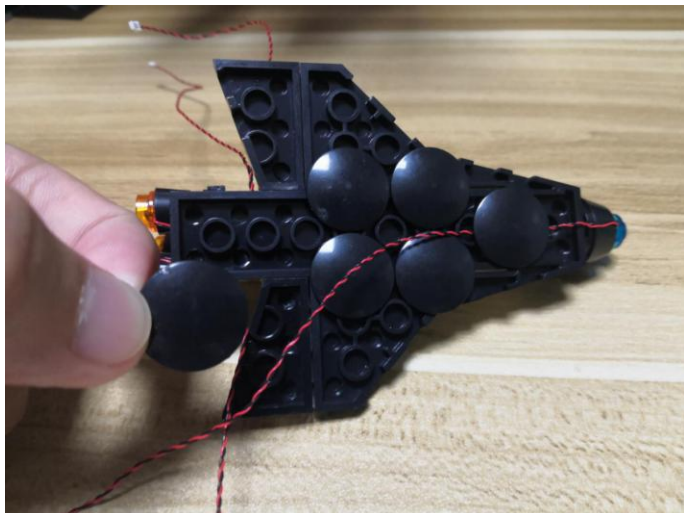


Reconnect the injector at the left side, place the cable underneath with the tweezer, pull the cable leftward.

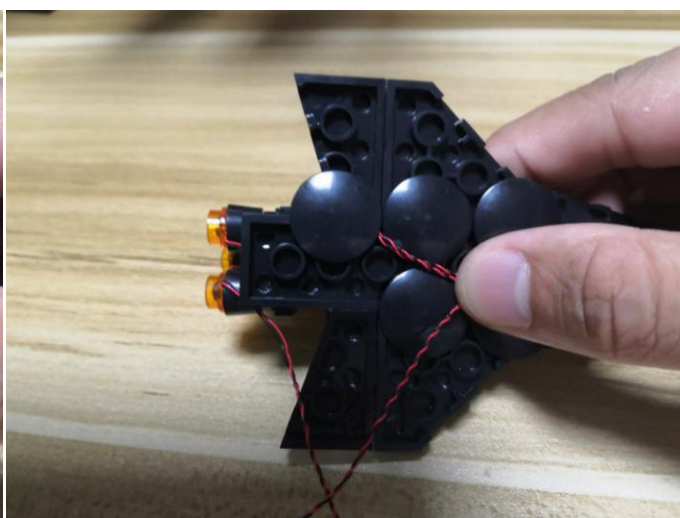
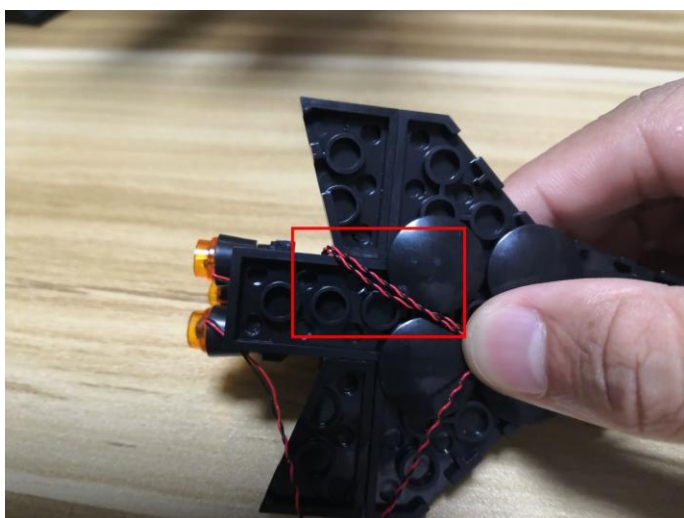


Turn to the bottom, disconnect the following 2 black round pieces.

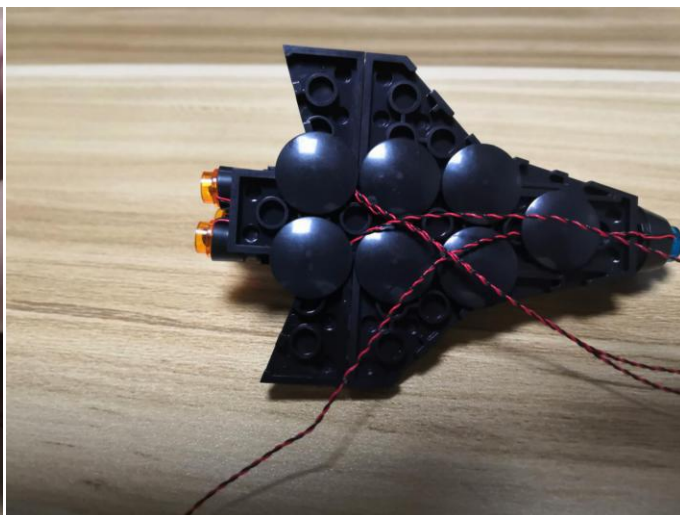
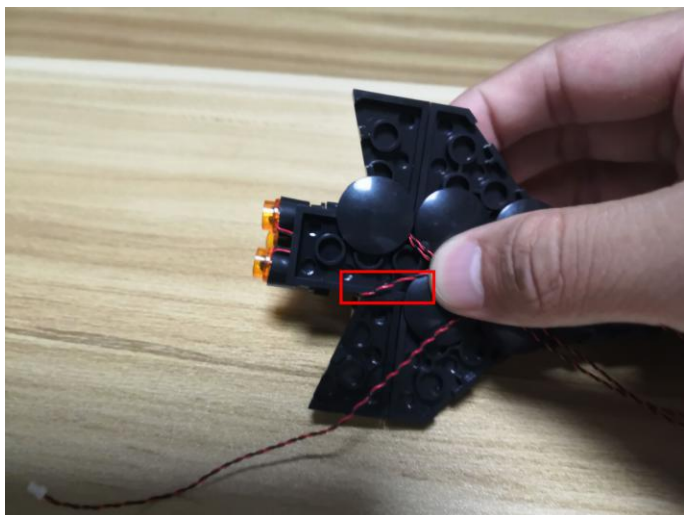




Place the cables as per below, reconnect the piece.



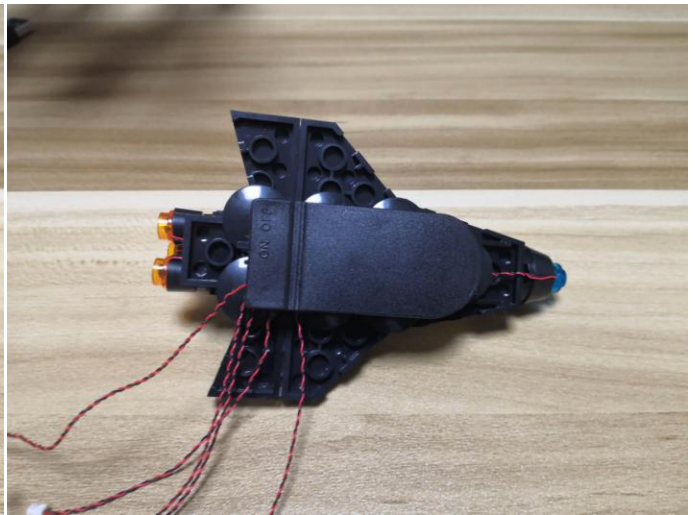
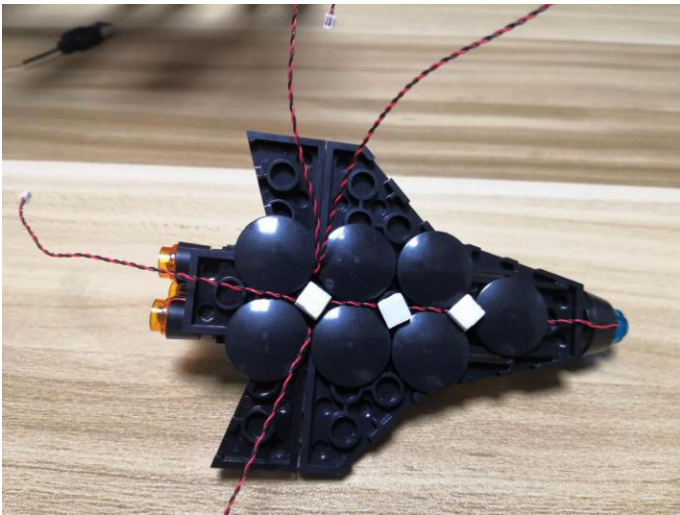
Place the cable as per below, reconnect the piece.



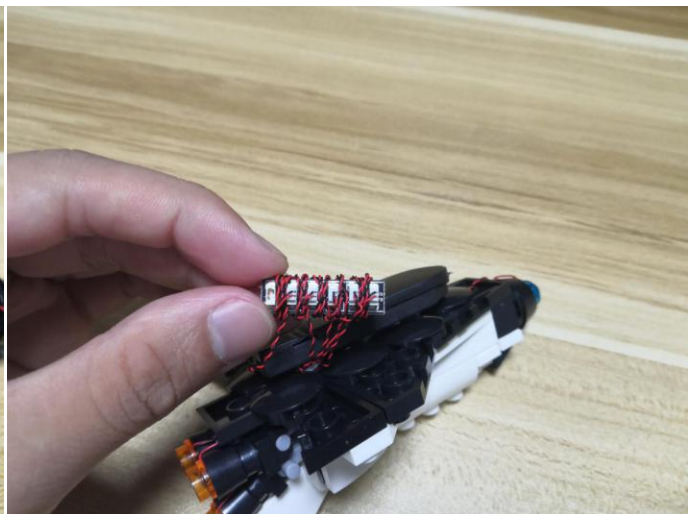
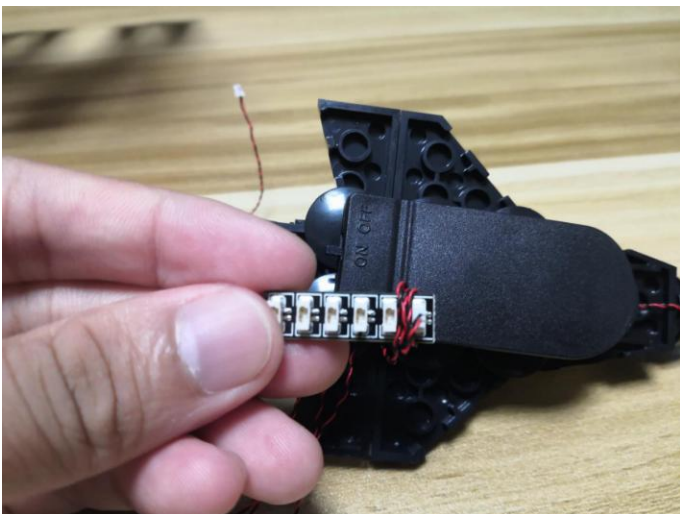
Take 5 adhesive squares, a 6-port expansion board, a Flat Coin Cell Battery Pack.



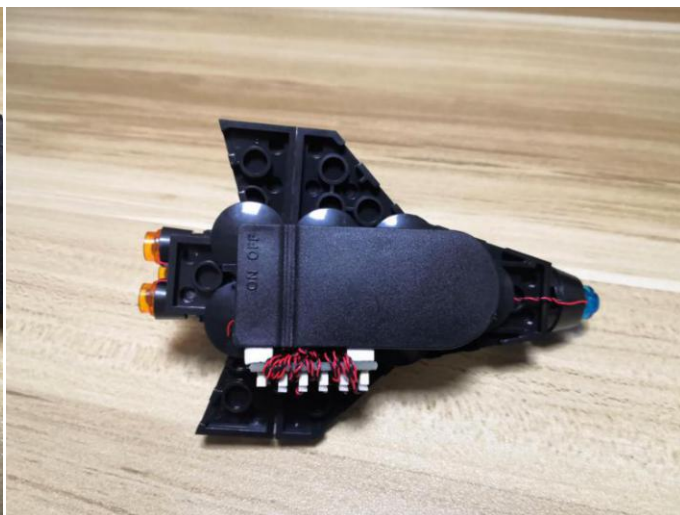
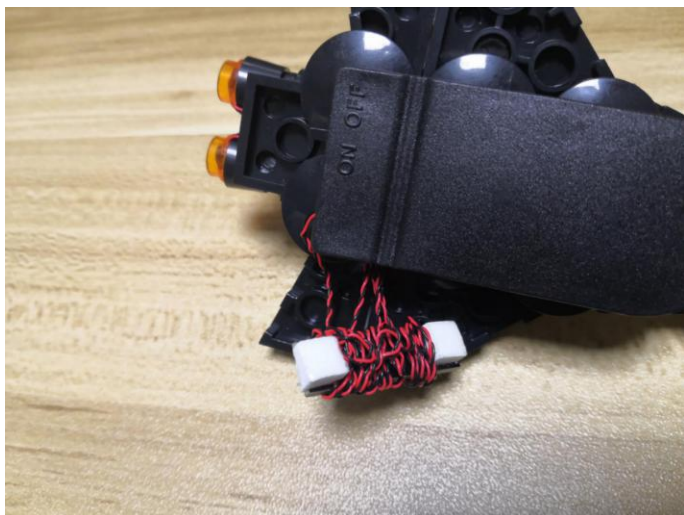
Stick 3 adhesive squares to the bottom as per below, stick the battery pack to the bottom, place all the cables in the same direction.



Connect the following cables to the 6-port expansion board (you can tuck excess cables around the expansion board).



Stick the last 2 adhesive squares to the back of the expansion board, stick the expansion board to the battery pack as per below.



This completes installation of this LED Lighting Kit. ENJOY!



The above are ideas and instructions provided by our designers. Please move on:

- 1: Do you have any suggestions about the material and quality of our products?
- 2: Do you have any suggestions on the installation instructions and the degree of difficulty of the installation?
- 3: If you have better installation method and ideas, please contact us in time.