21309 NASA Apollo Saturn V P7001

- **P7001 is the unique code of lighting set, we use this to accurately identify the product you purchased and the corresponding manuals and services you need to obtain. Please make sure your product code is the same as the label on the back of the box shown "21309 P7001".**

- **Installation requires a lot of patience and great observation that your LEGO bricks will come alive when you get this finished. The bricks with lighting as below, so make sure you're ready and let's get started.**

Strategies for the Installation

This instruction divides three sections to complete the installation of the lighting set.

Section A： Check the type and quantity of components.

The quantity and type of components of each products are different and it needs to be carefully checked to make sure there do have enough material. The type of components is indicated by the label on the bag.

Section B： Test that each components is working properly.

Each components is made individually so it is necessary to test that each components is working properly to avoid the situation that the lighting does not work .

Section C： laying out components following the instruction.

Our material is very small but not fragile, just be reminded that don't to pull the wires too hard. For different people, there may be some installation steps that you can't understand. Please look at the previous and later installation step

Section A： Check the type and quantity of components.

There are 6 bags in this set. The name and quantities of specific components are as shown , please check carefully.

| Label	Content	Quantity
Expansion Board	6 Socket Expansion Board	1
Flat Battery Pack	Flat Battery Pack	1
Connecting Cables-5CM	Connecting Cables-5CM	1
Bit Lights-30CM-Warm White	Bit Lights-30CM-Warm White	5
Flicker-Effects Board	Flicker-Effects Board	1
Parts package		

Please contact us immediately if there have any missing components.

Section B: Test that each components is working properly.

   We need a structure to test all lights, so take out the bag with label "Flat Battery Pack"and "Expansion Boards"as follows.

   The flat battery pack does not contain batteries, please buy a 2025 or 2032 button battery in the nearest store and install it in the flat battery pack.
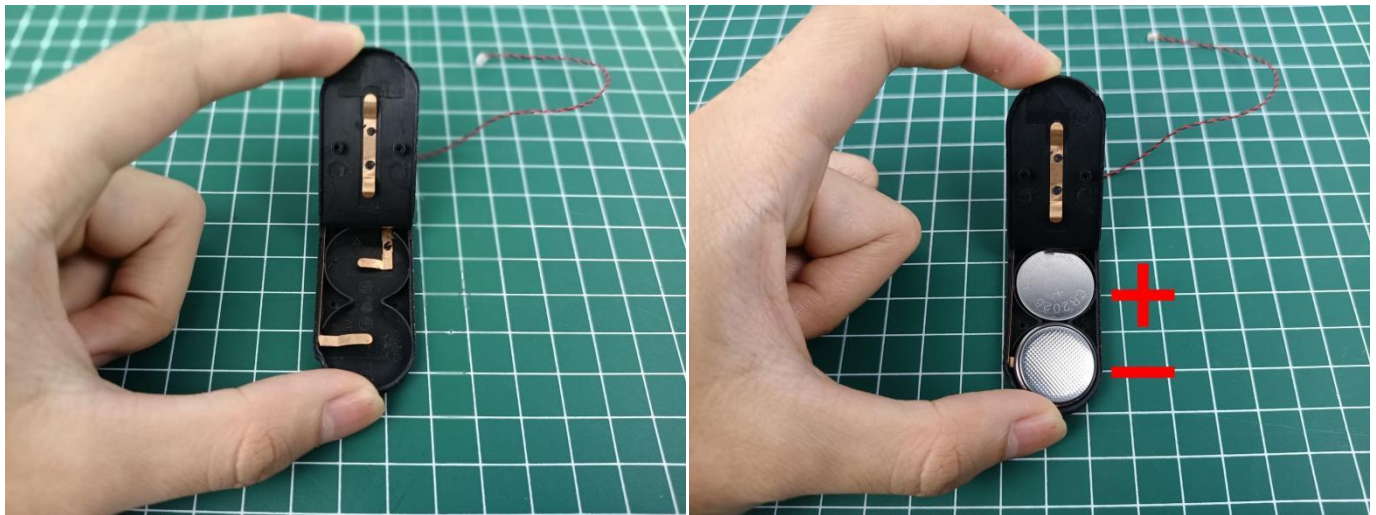
It is worth reminding that our products are all customized. They have a unique way of connecting. The white plug on wire and the socket of the expansion board need to be connected together to transmit power.

Note that on one side of the white plug you can see two very small golden wires that should be connected to the two golden needles in socket of the expansion board.shown as blow.
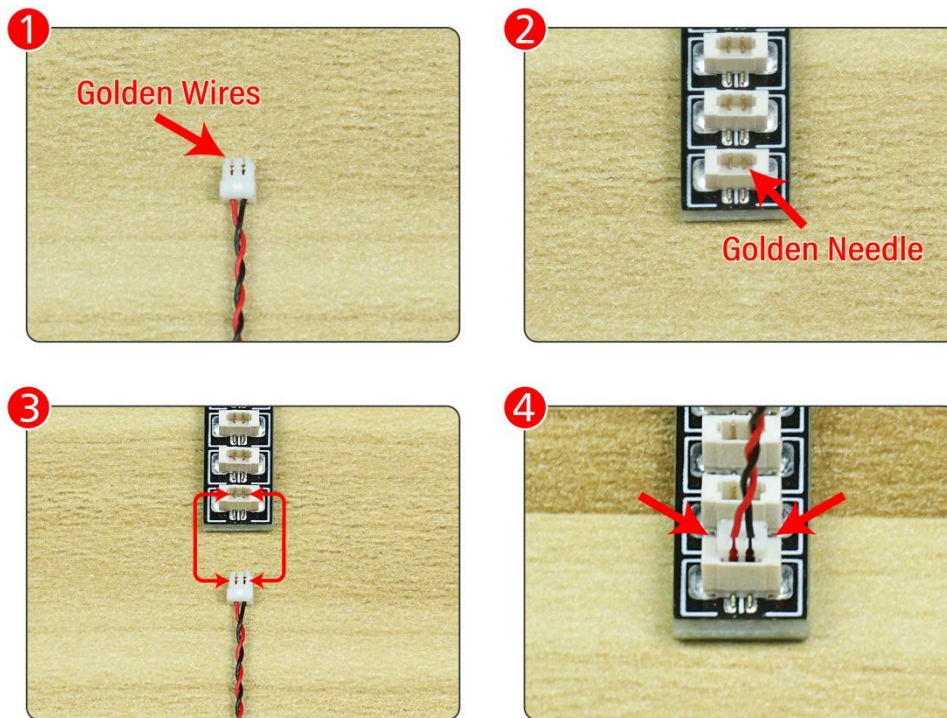
All our connections between plug and socket are all the same as shown above. So for any such structure with plug and socket, please pay attention to the golden wire of the plug and the golden needle of the socket, they must be touched together.

The connection method between the Flat Battery Pack and Expansion Boards is as follows:
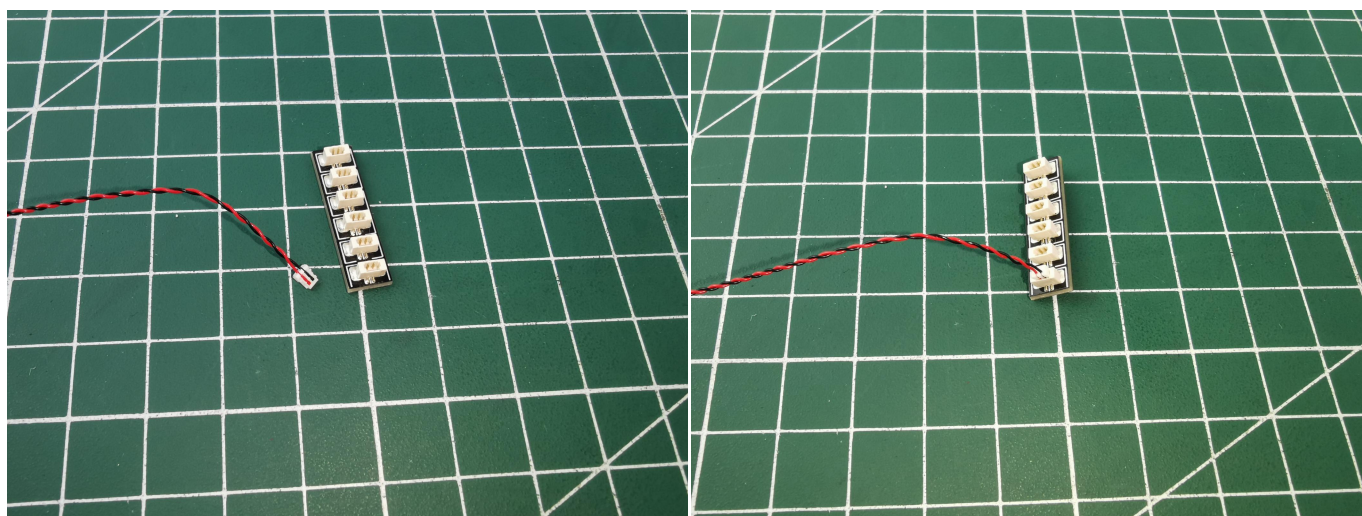
when we test "Bit Lights-30CM-Warm White" particles,Take out the bag labelled "Bit Lights-30CM-Warm White".Take out one of the light and connect it to the socket. Turn on the flat battery pack, the light will turn on normally as shown below.
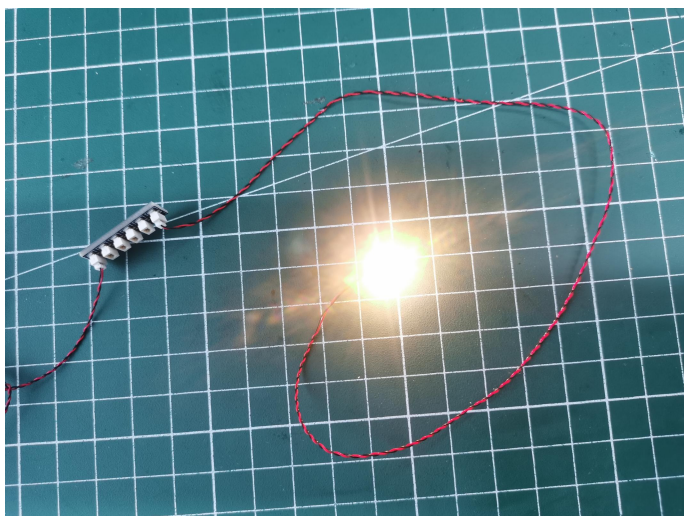
Test each lamp according to this method. It should be noted that after the test, the lamp must be returned to the corresponding bag to avoid confusion of types.

The components needs to be tested in this set is 4*Bit Lights-30CM-Warm White. Please contact us immediately if any components don't work.

Section C：laying out components following the instruction.

1.We will install lights to the bottom rocket first. Start by disconnecting the bottom jet sections followed by the tail pieces as per below:

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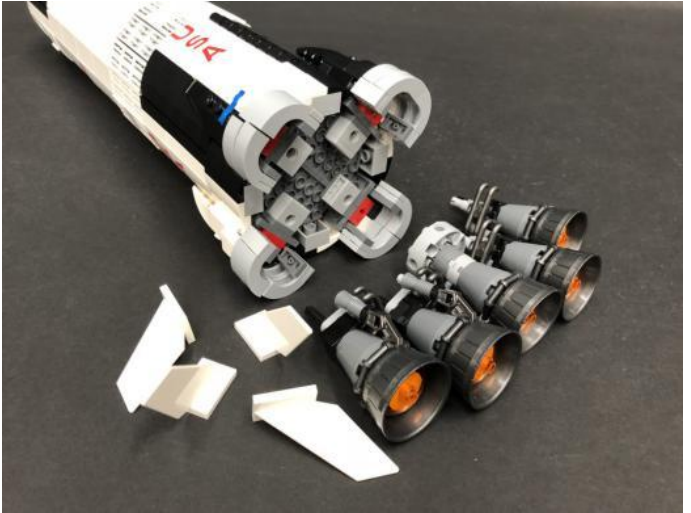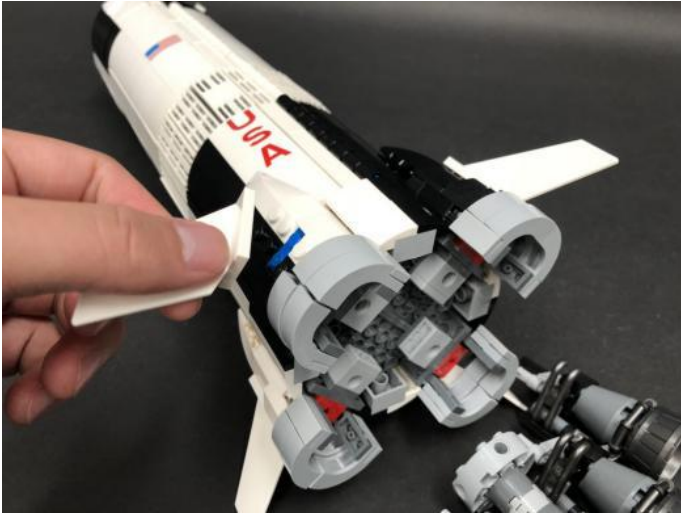
4.Using the Removal tool, disconnect the following wall section from the bottom as shown below.
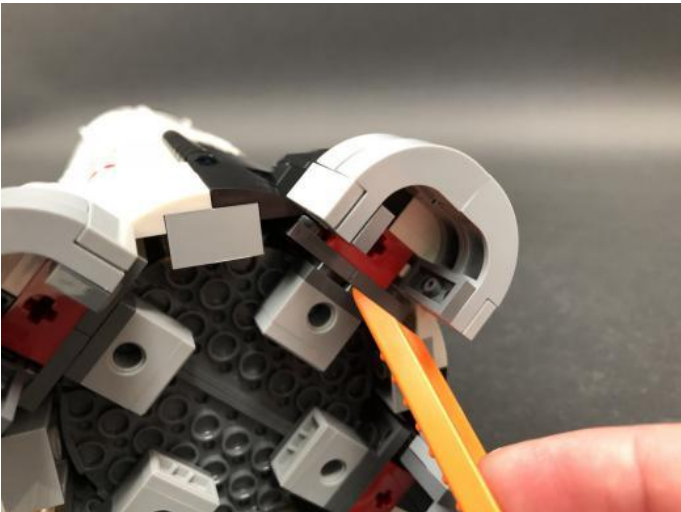
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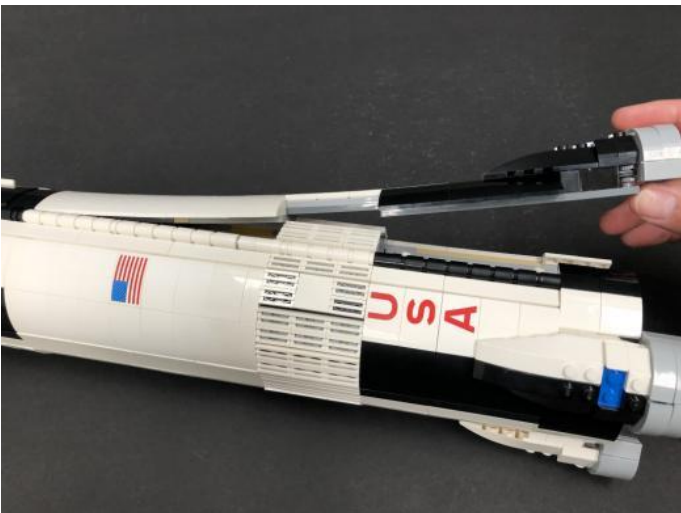
6.Carefully press down at the following position to allow you to completely pull this section out.
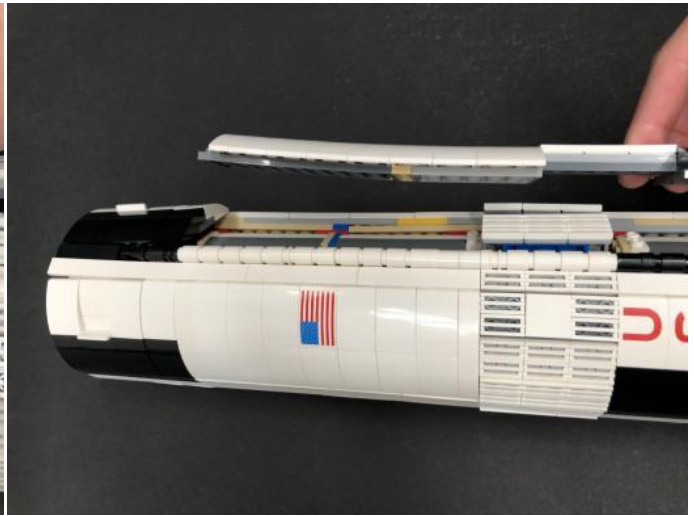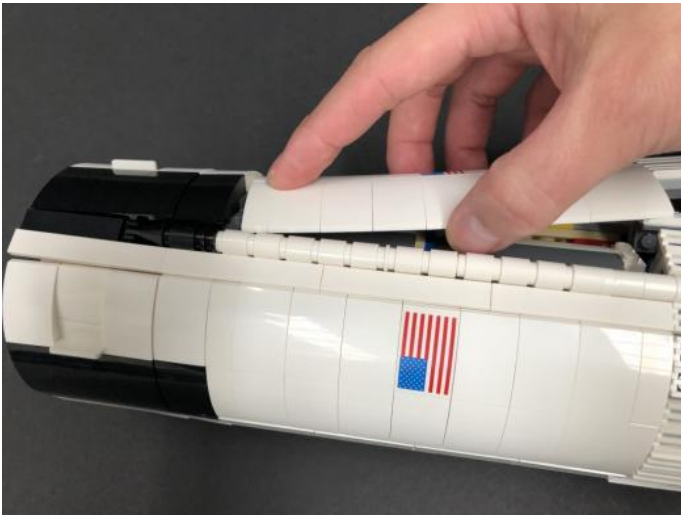
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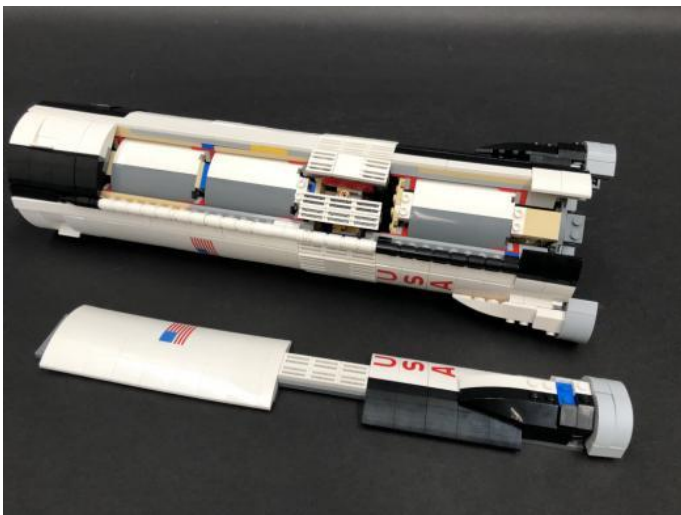
8.Repeat previous step to remove the wall section to the right.
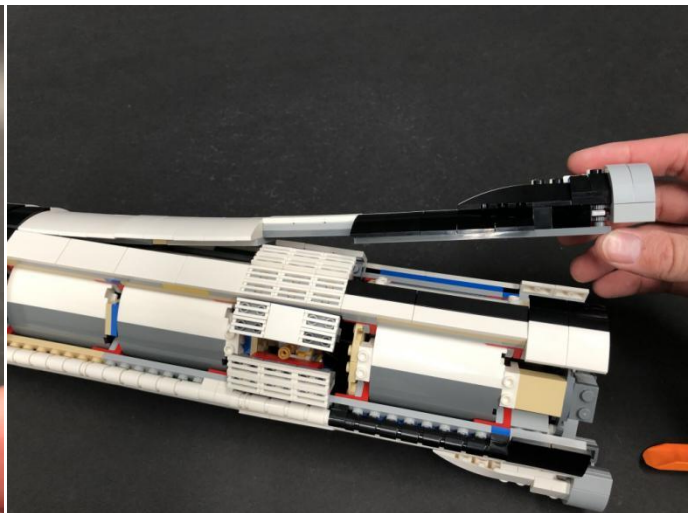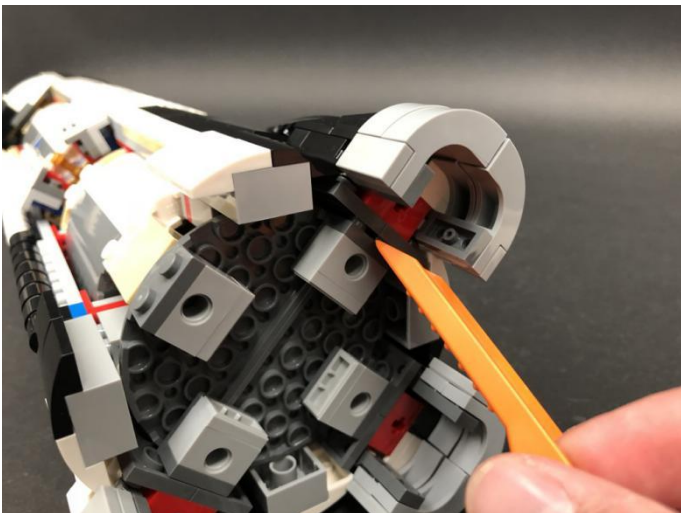
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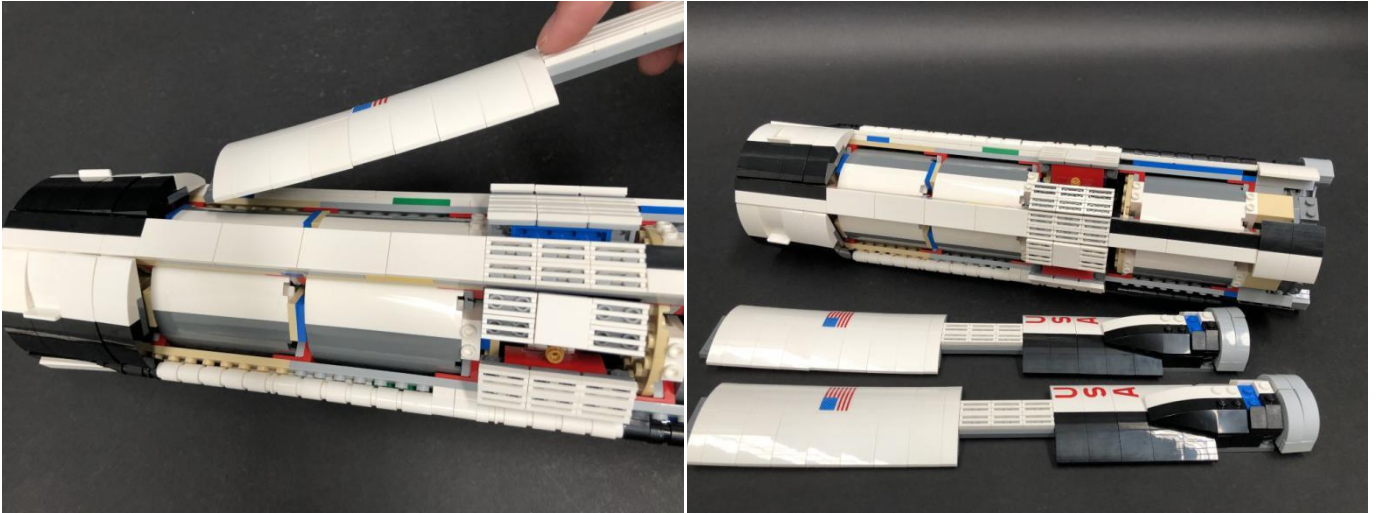
10.Remove the section in the middle by lifting out sections using your finger as well as using the removal tool.
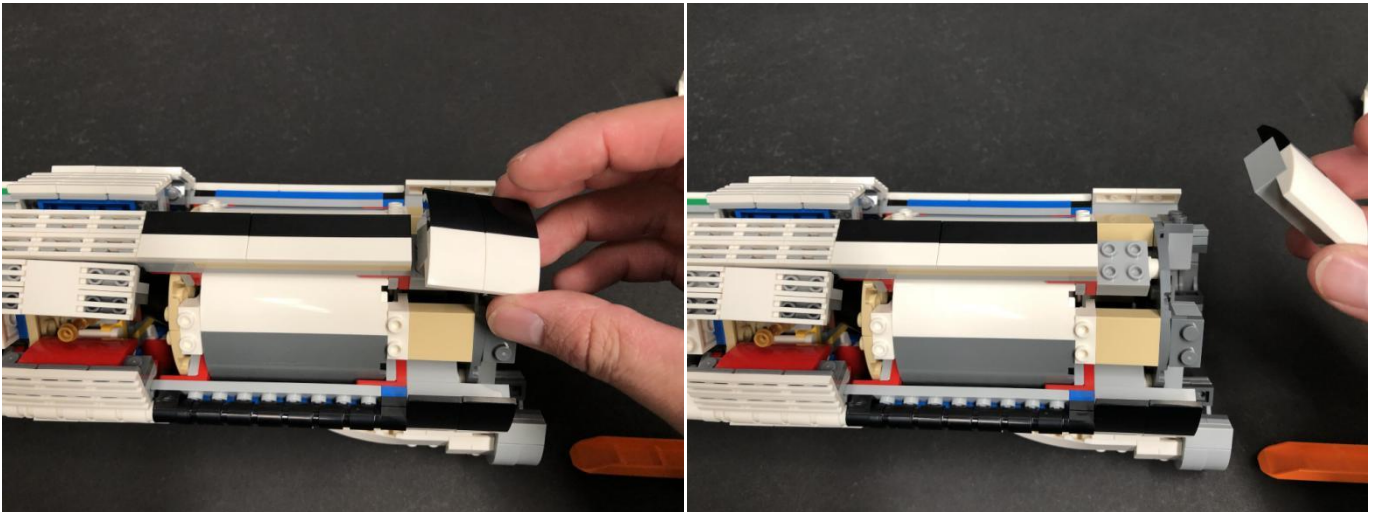
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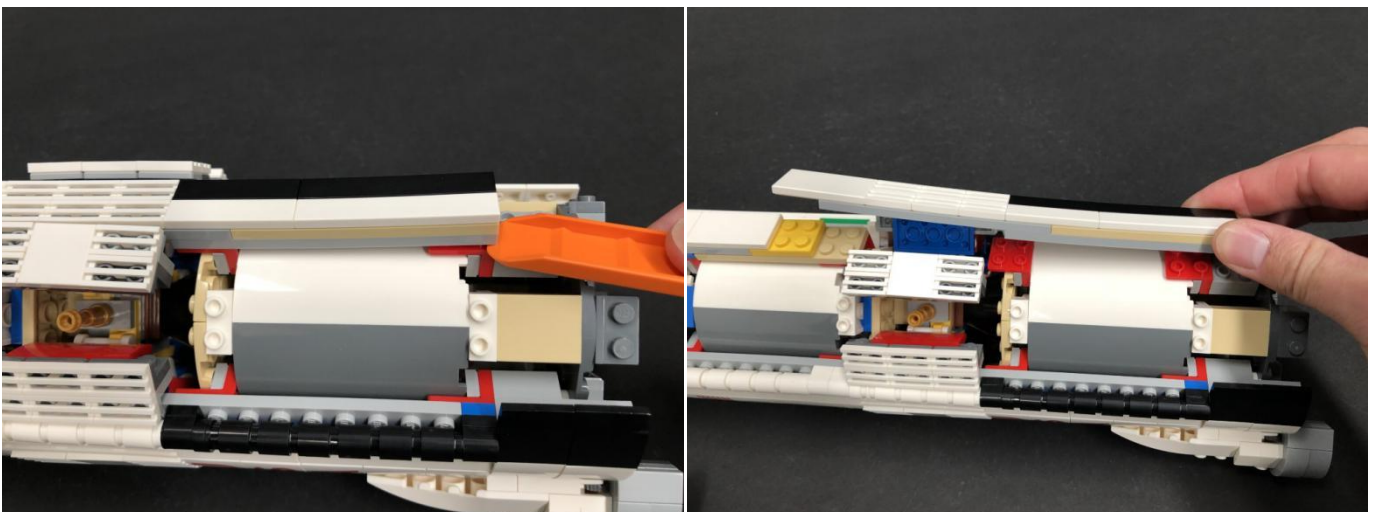
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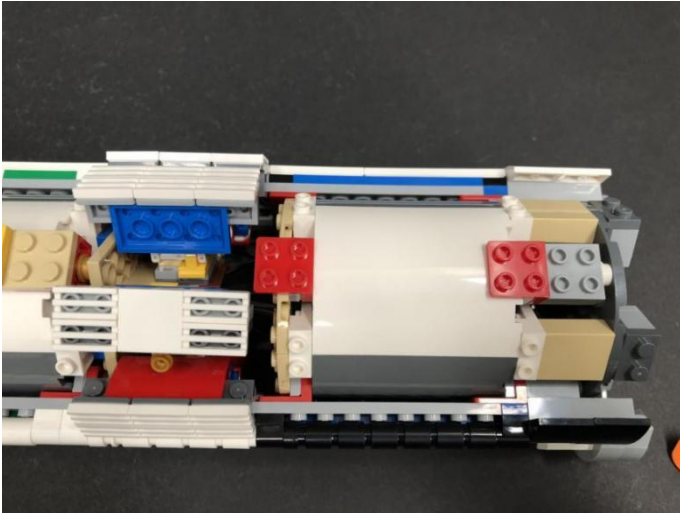
13.Use the Removal tool to disconnect the following sections to then allow us to remove the internal white wall section as well as the red pieces above and underneath.
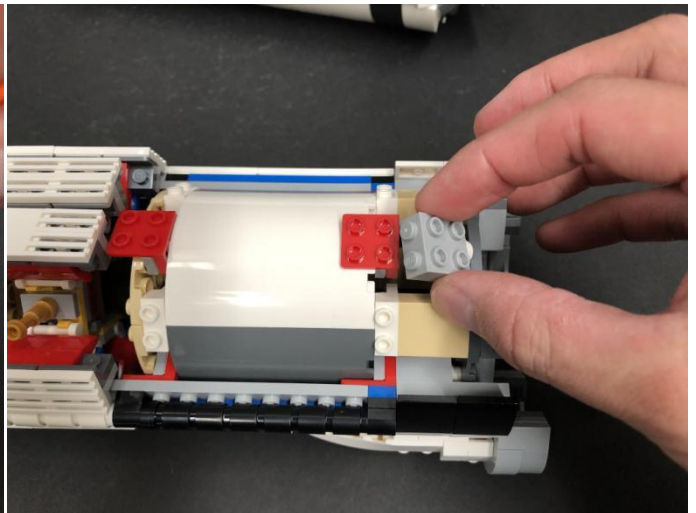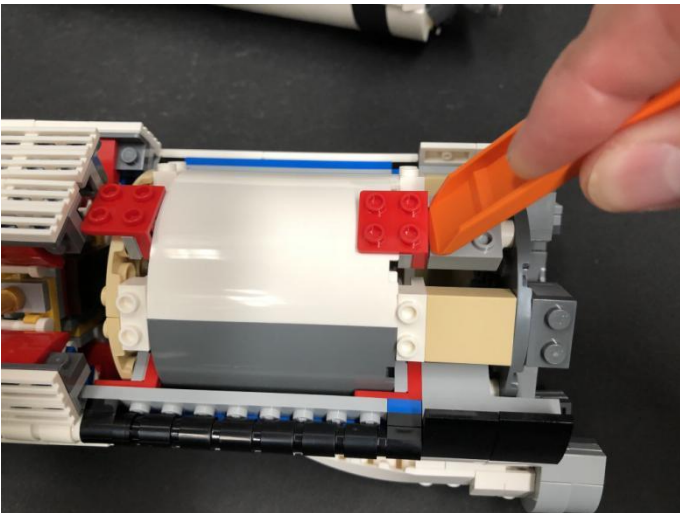
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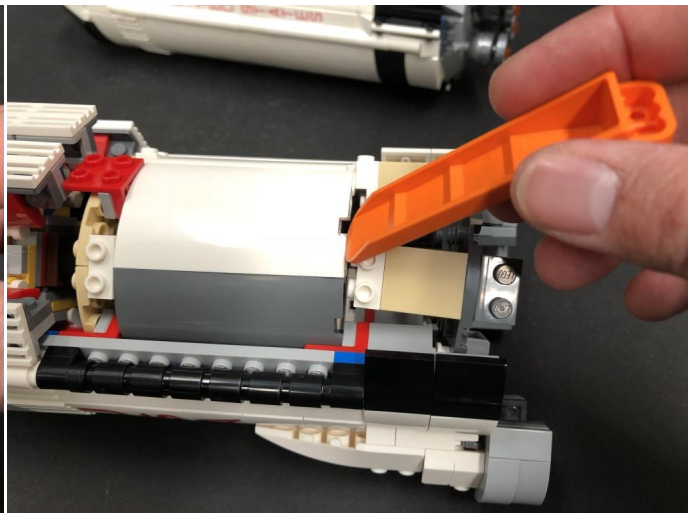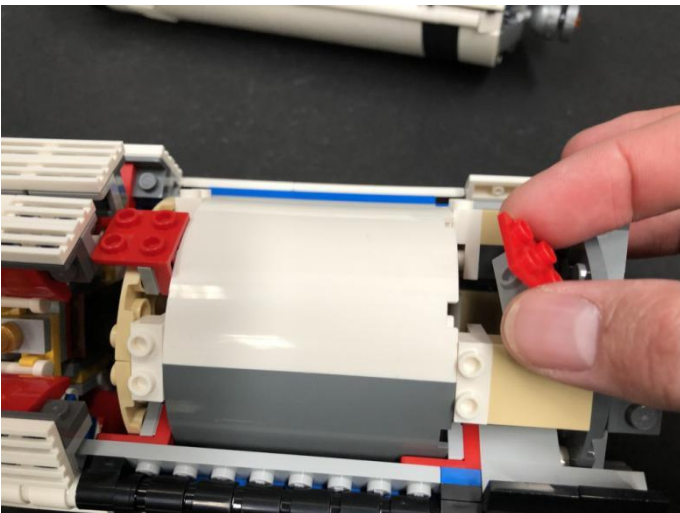
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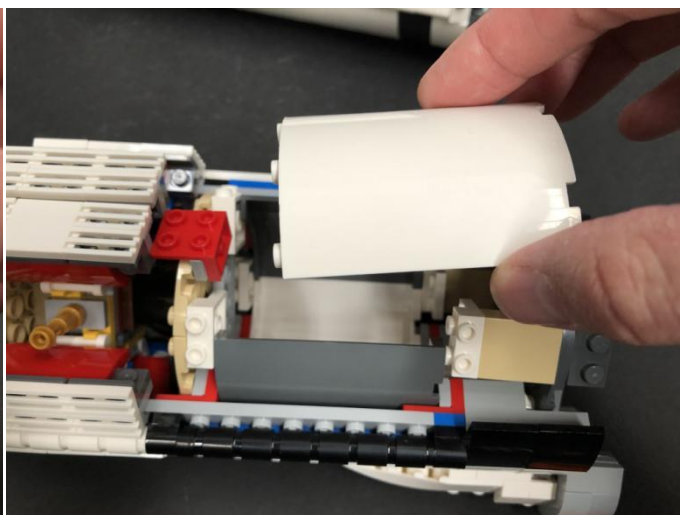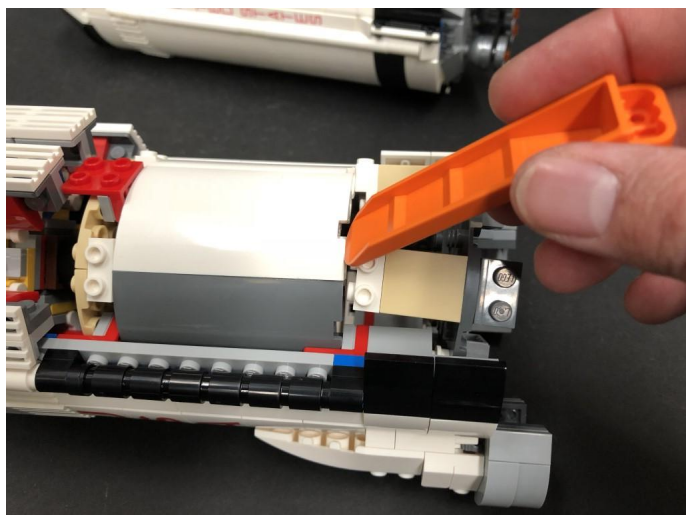
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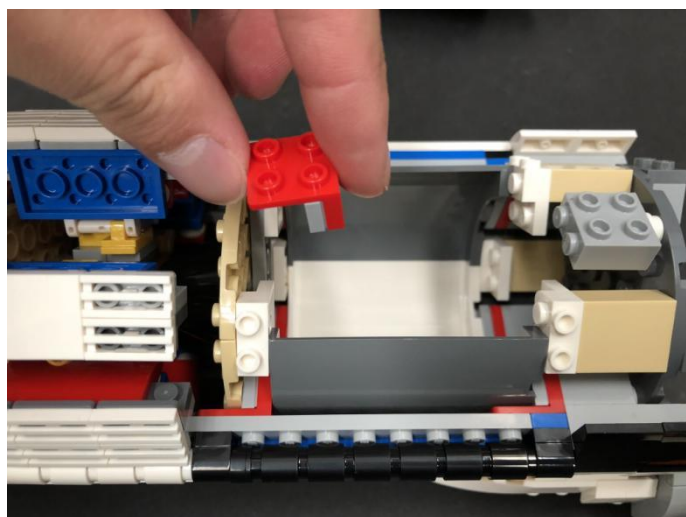
17.Install lights for the 5 jets, take one of them firstly.

18.Take a warm white 30cm dot light, with lighting part facing up, place it as per below.
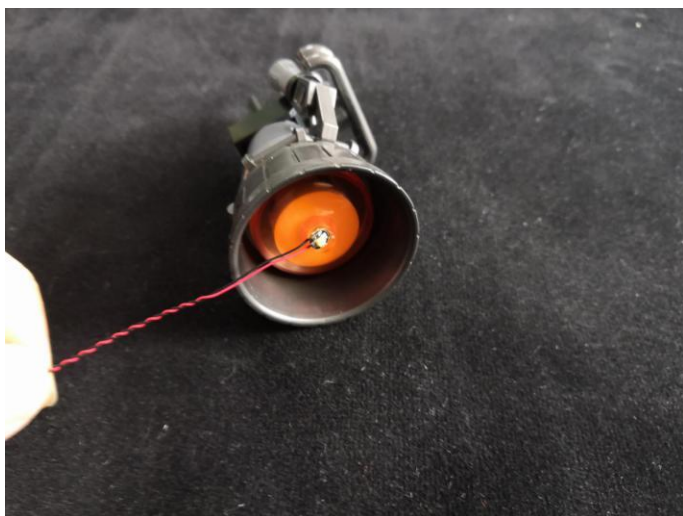
19.Take an orange 1x1 round plate, connect it over as per below.
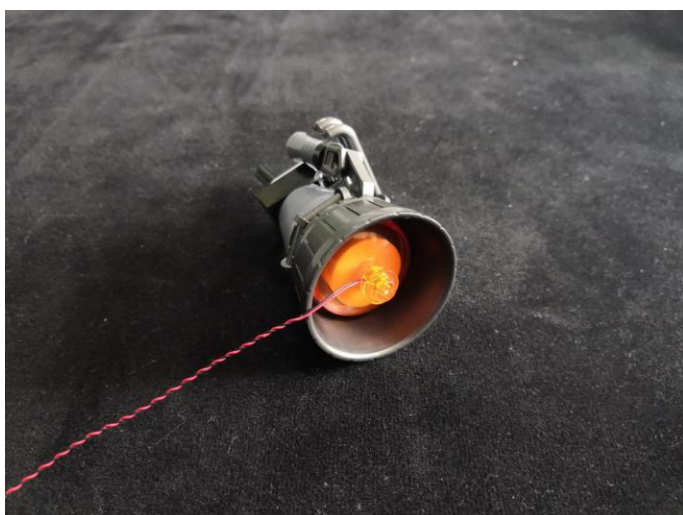
Tips

The plate without slit:
The plate without slit:
The squeeze causes the protective layer of the wire to be torn apart, the positive and negative wires touch together, and the set is short-circuited and the hot or wire is crushed, the wire to be disconnected and don't work.

The plate with slit:
The plate with slit:
The wire has enough space to avoid being squeezed endowed with longer service life and more stable effect.

The slit on the the plate round 1X1 are hand-made to avoid squeeze the wire and cause short circuit and abnormalheat during installation.

20.Wind the cable as per below.
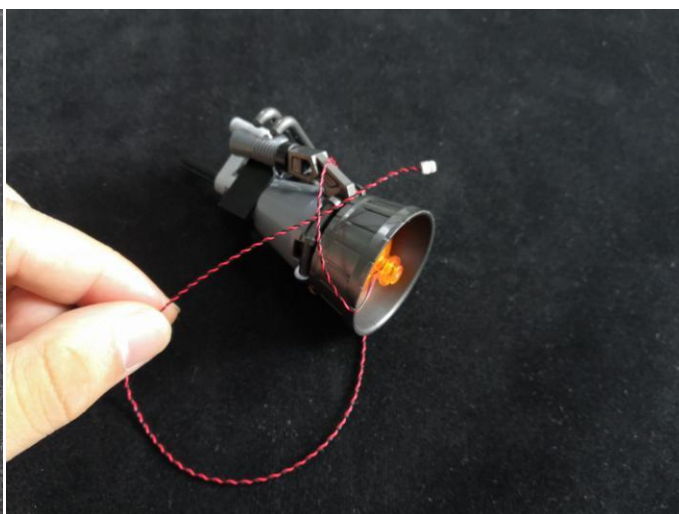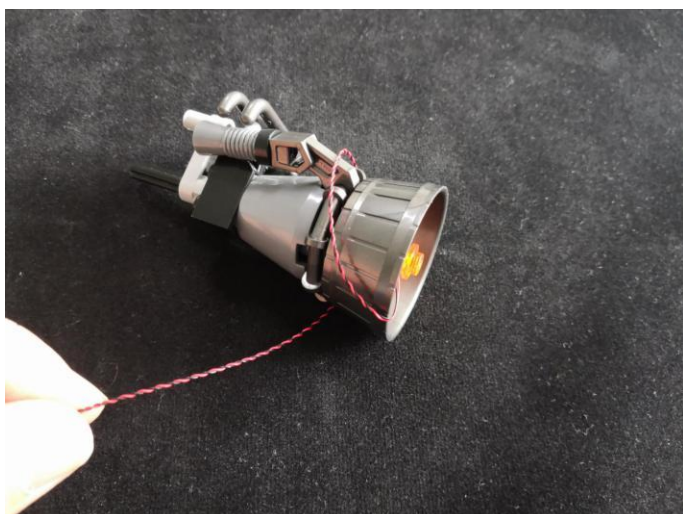
21.The cable winded is as per below, install the other 4 jets in the same way.
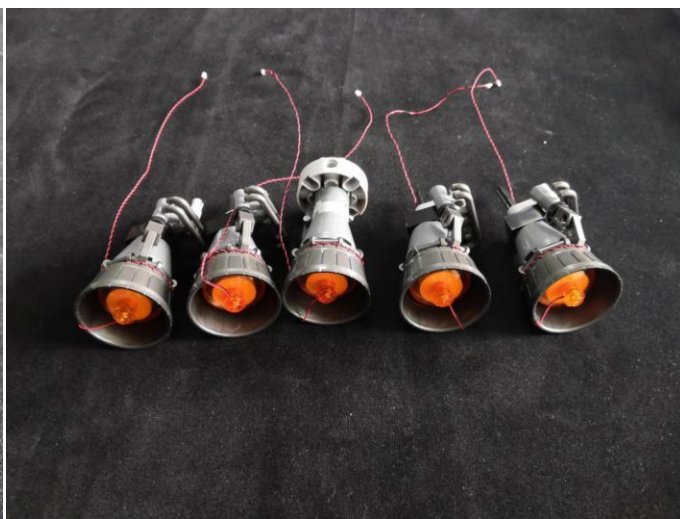
22.Reconnect the bottom three jet sections back to the base of the rocket starting with the one in the centre. Ensure the cable from each jet light is laid toward the top centre as shown below:
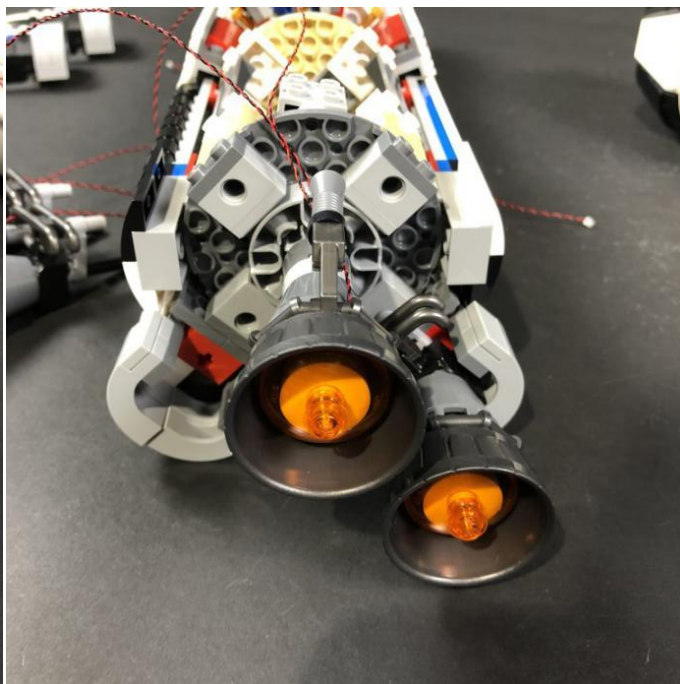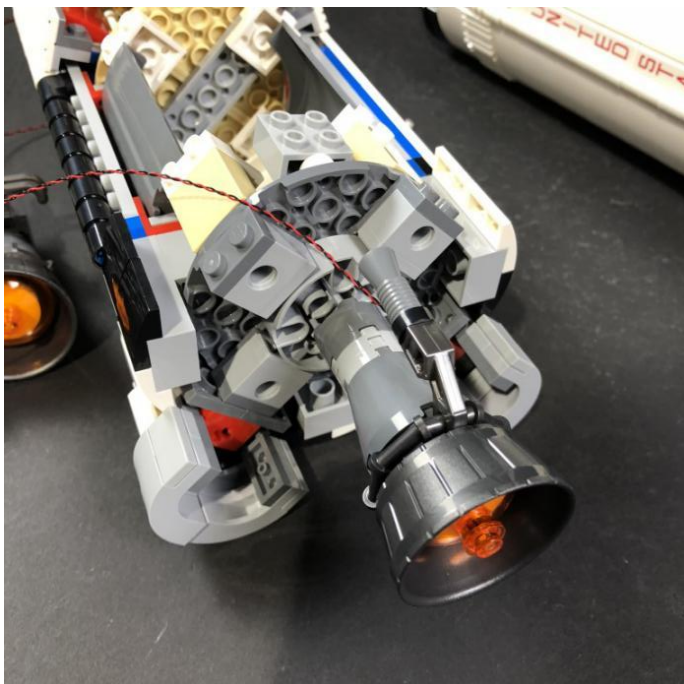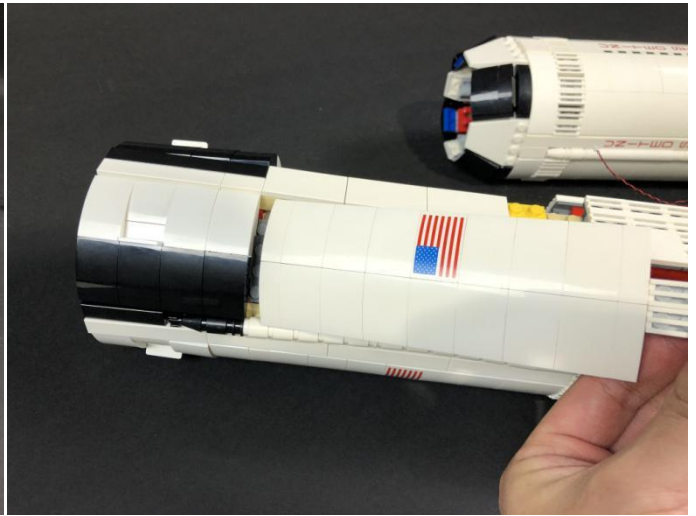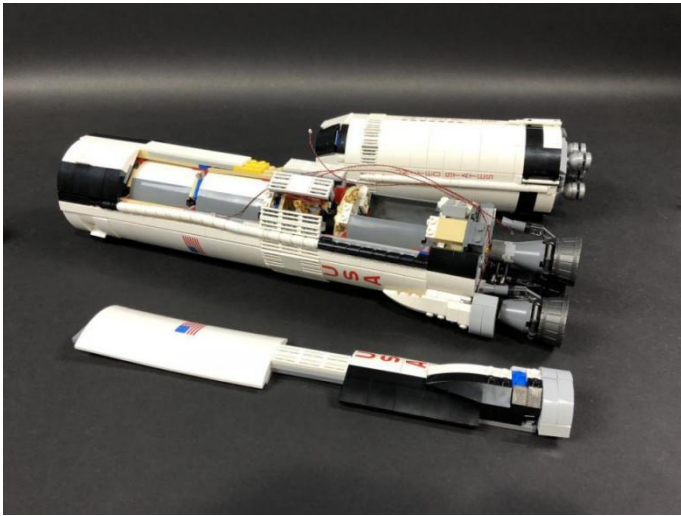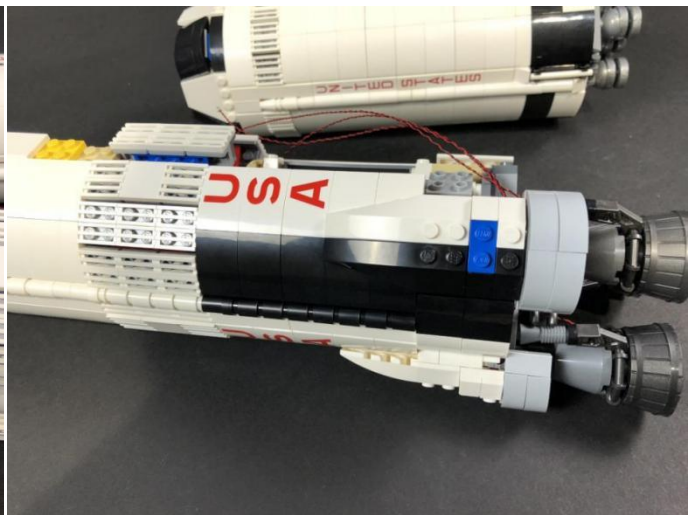
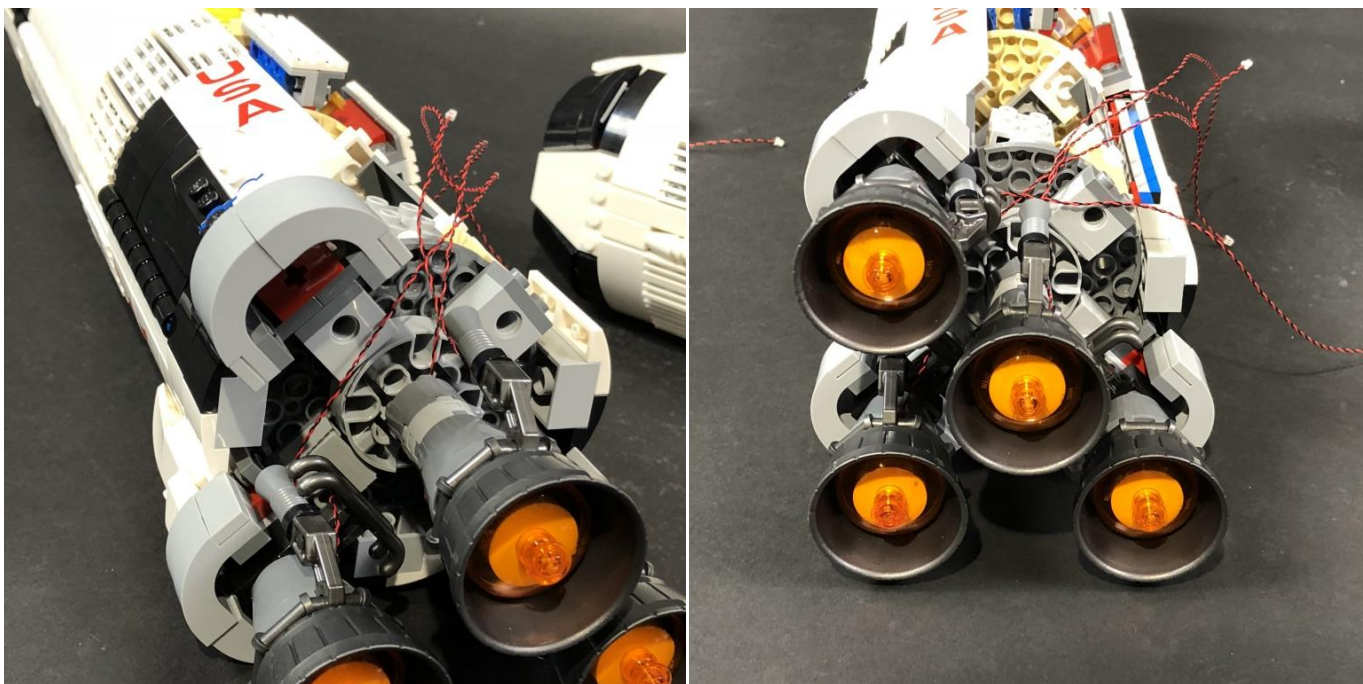**23**
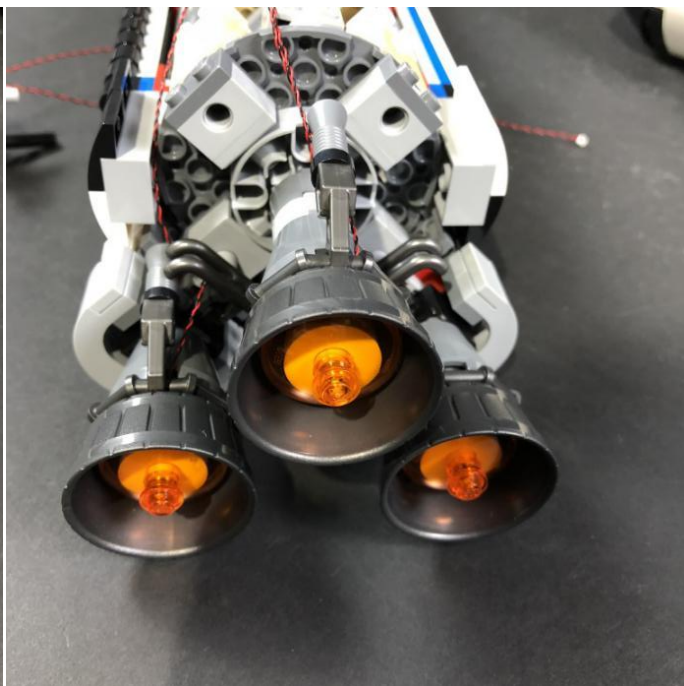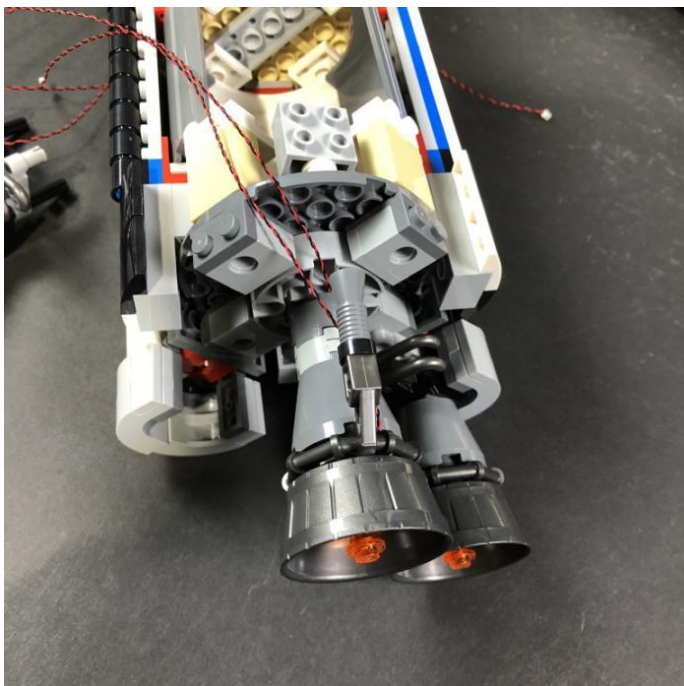
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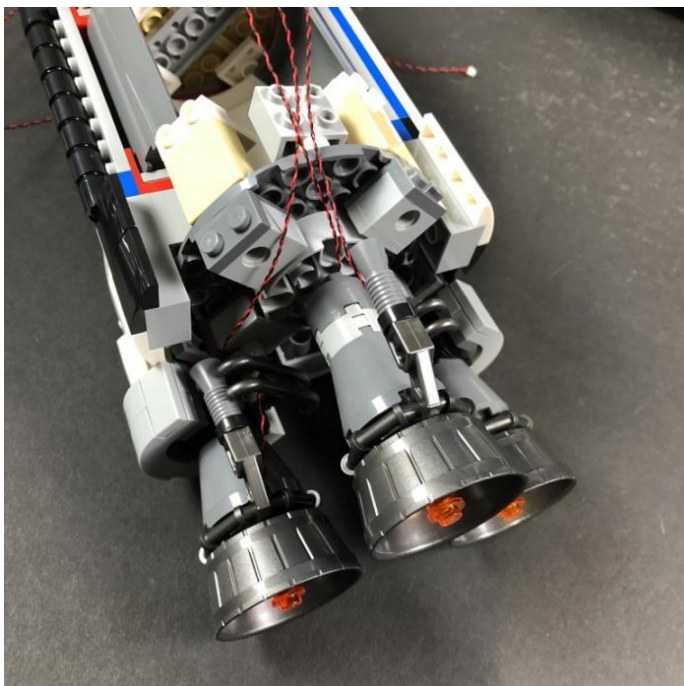
25.Take the wall section closest to the bottom and then reconnect this to the ship starting with the top part.

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27.Reconnect the Jet section that connects to the bottom of the wall section we just reconnected ensuring all cables are neatly laid towards the centre.

28.Flip the rocket over and then reconnect the remaining wall section by first reconnecting the top part then reconnect the remaining Jet section.
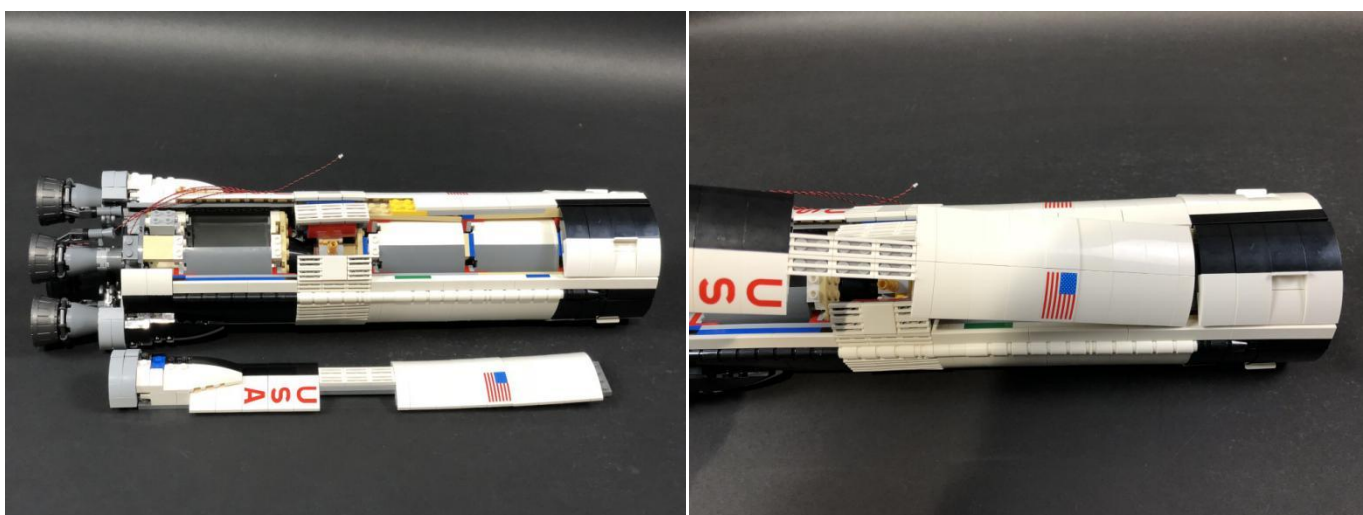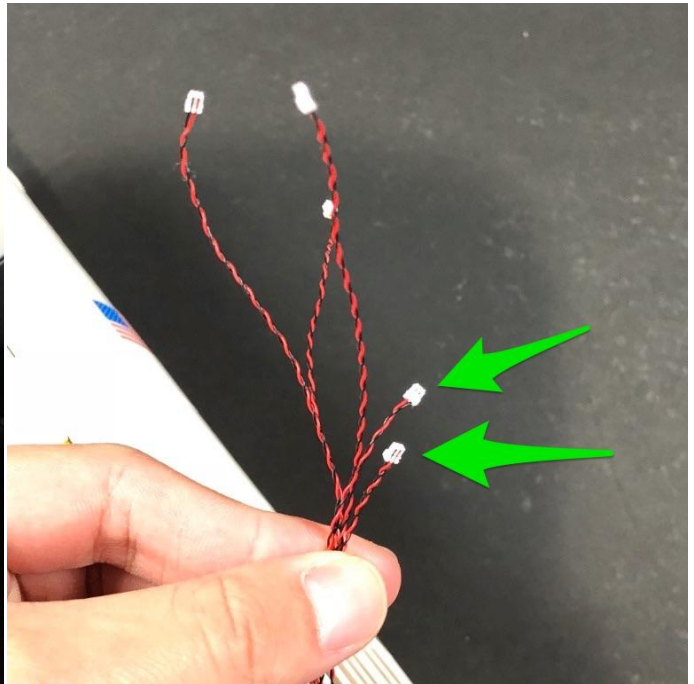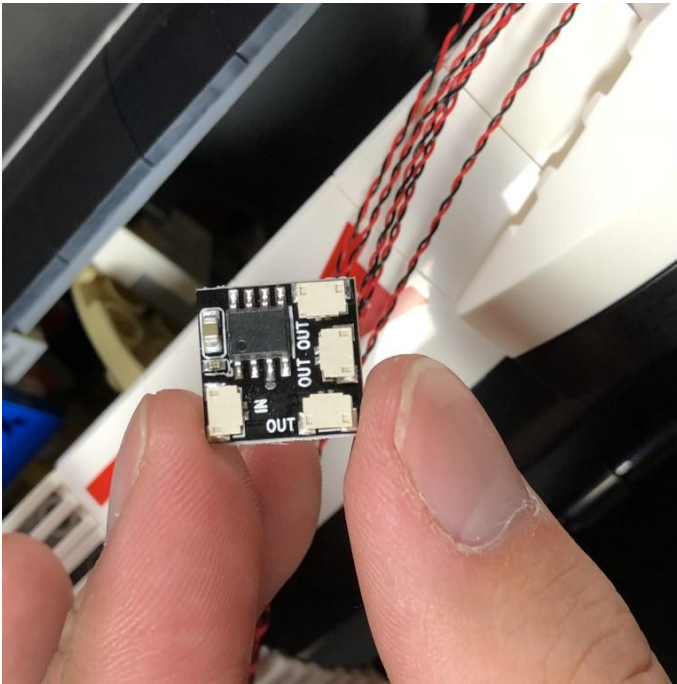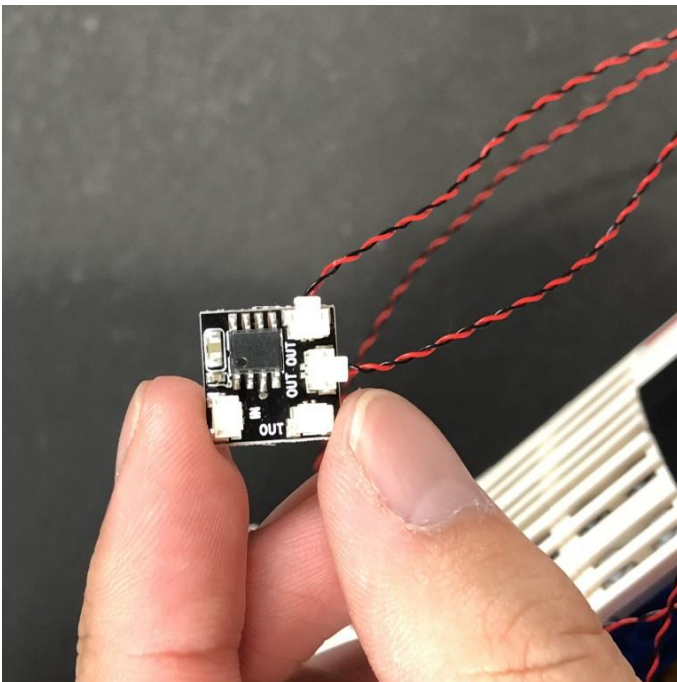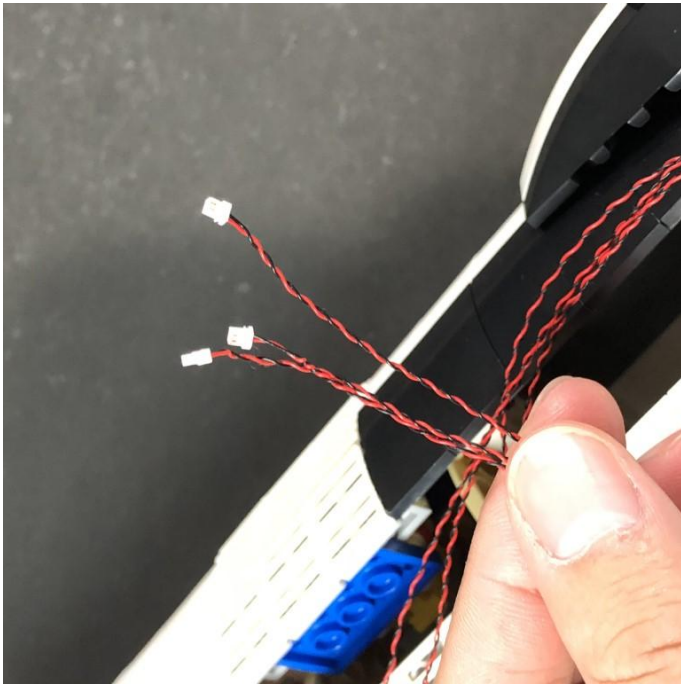
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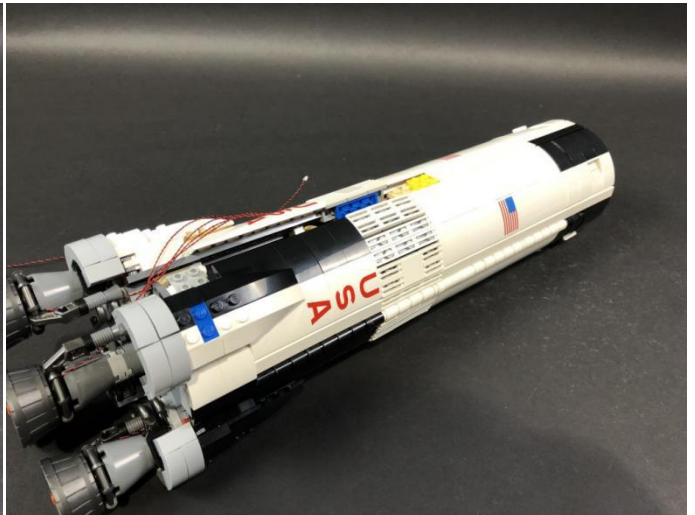
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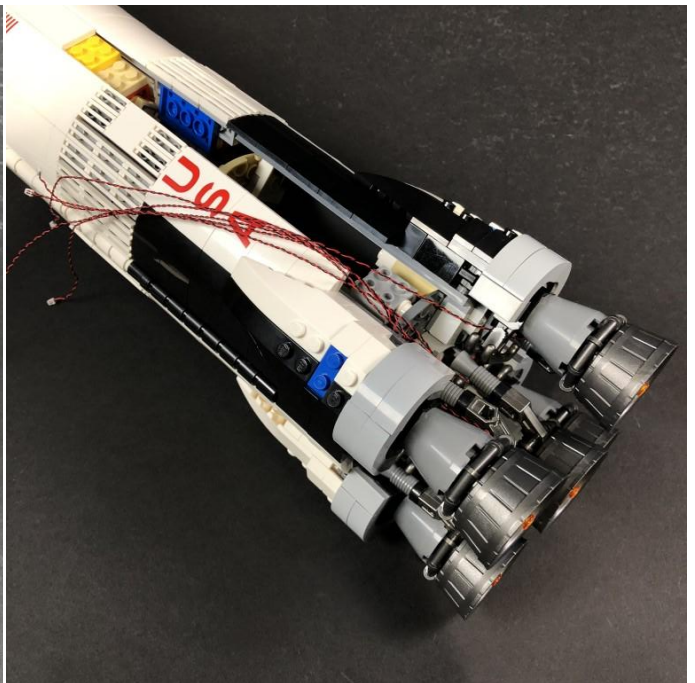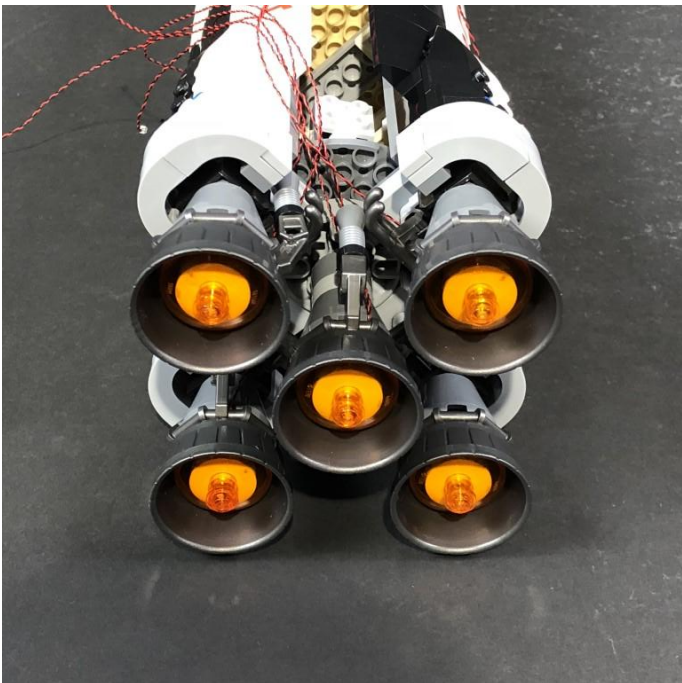
31.Take 1x Flicker Effects Board and connect the two shortest Dot Light Cables to the OUT ports (There are 3 OUT ports in total).
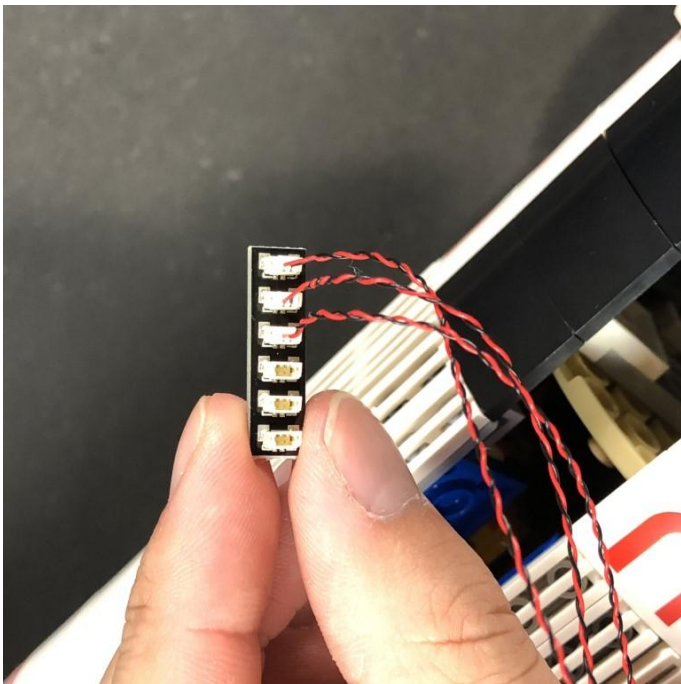

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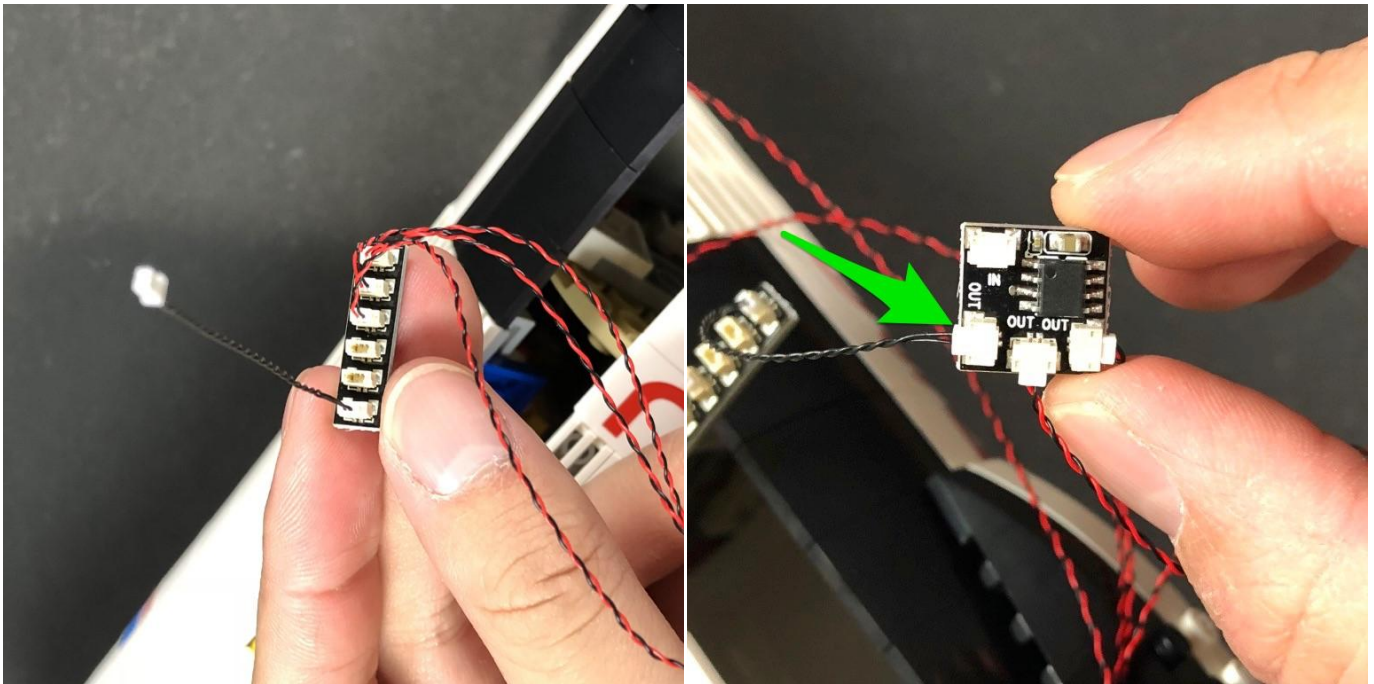**33.Take remaining three Dot Light cables and connect them to a**
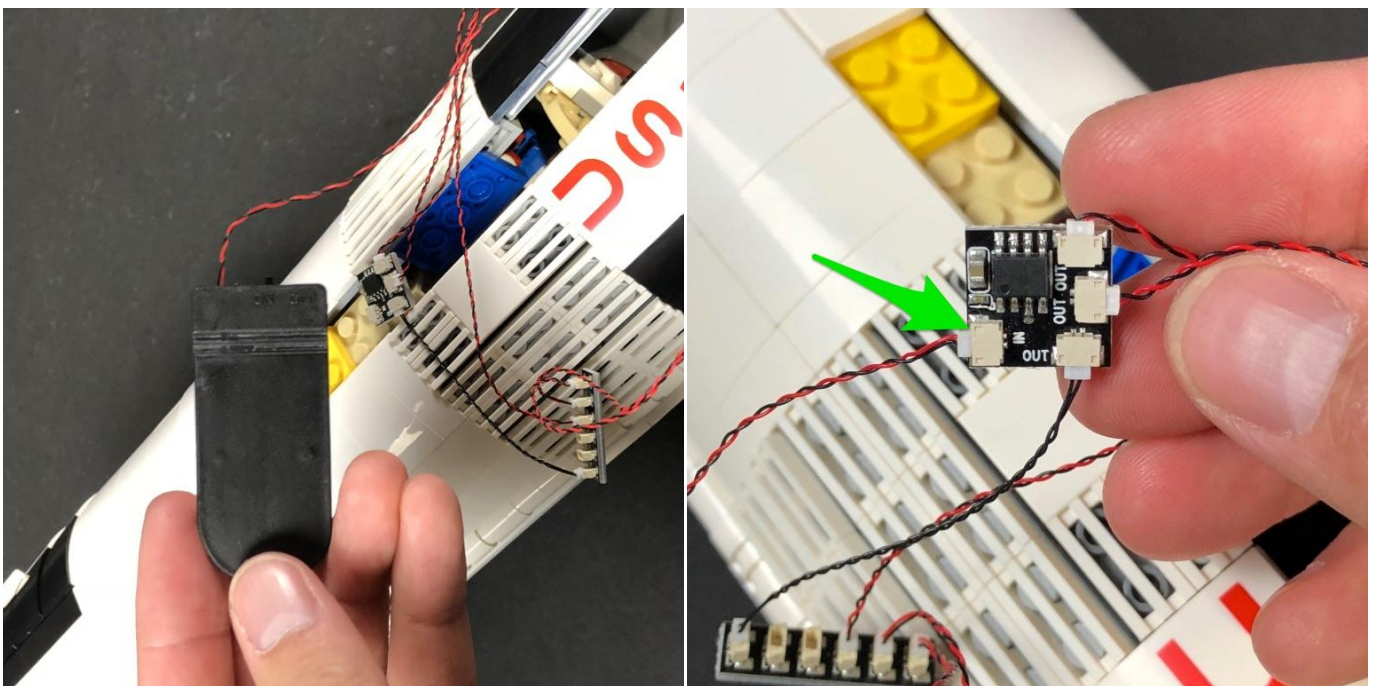
6-Port Expansion Board

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35.Take a 5cm Connecting Cable and connect one end to the 6-port Expansion Board and connect the other end to the remaining OUT port on the Flicker Effects Board.
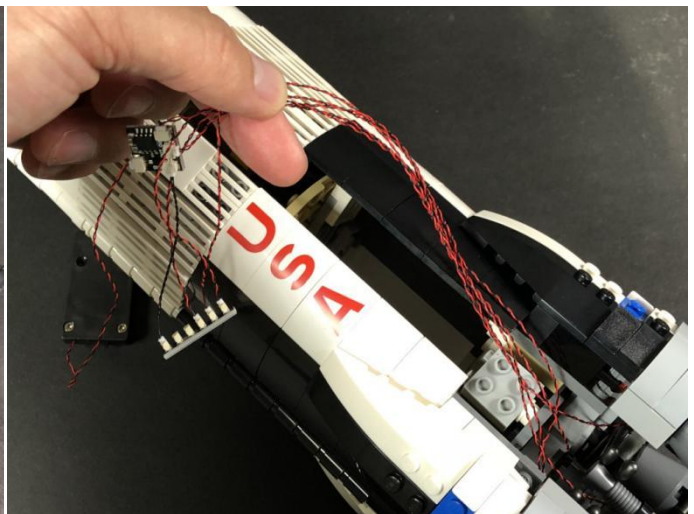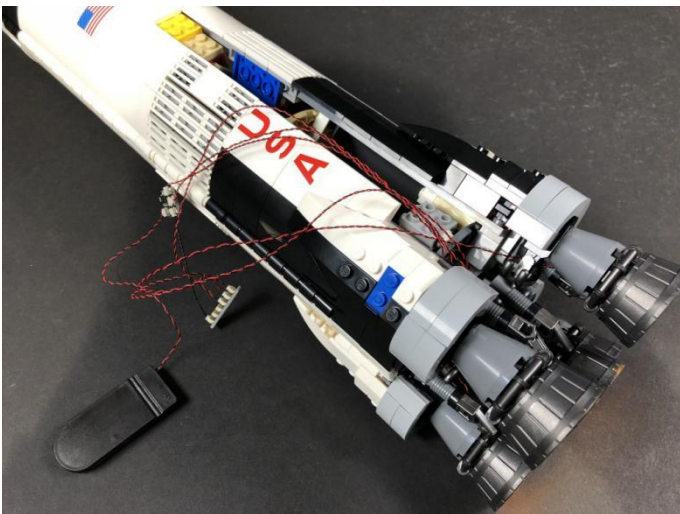

36.Take a Flat Battery Pack and insert 2x CR2032 Batteries to it and then connect the battery pack cable to the IN Port on the Flicker Effects Board
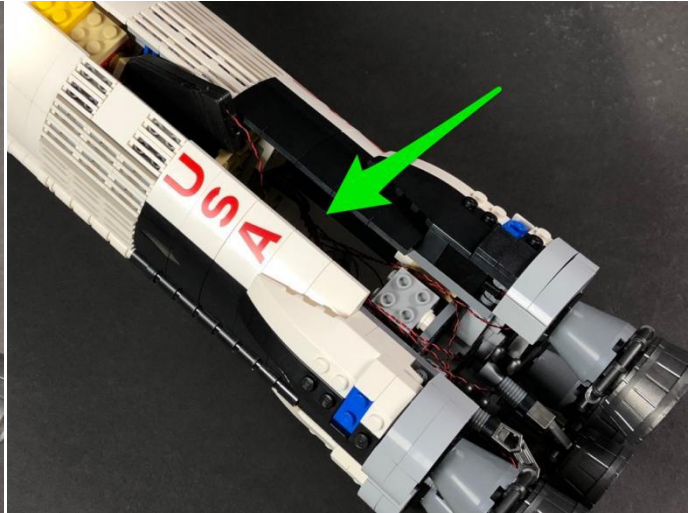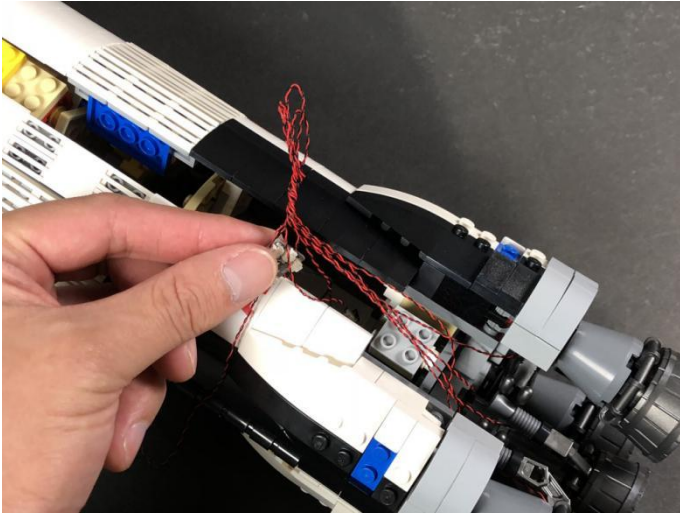
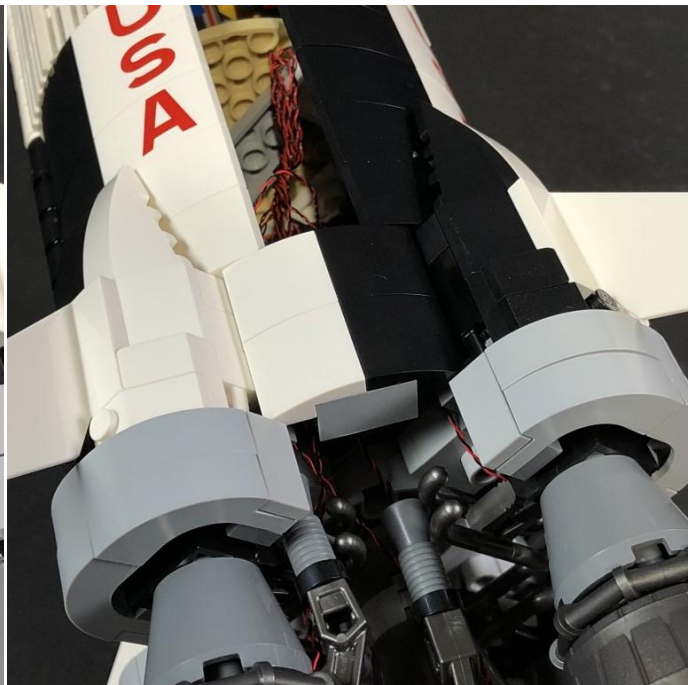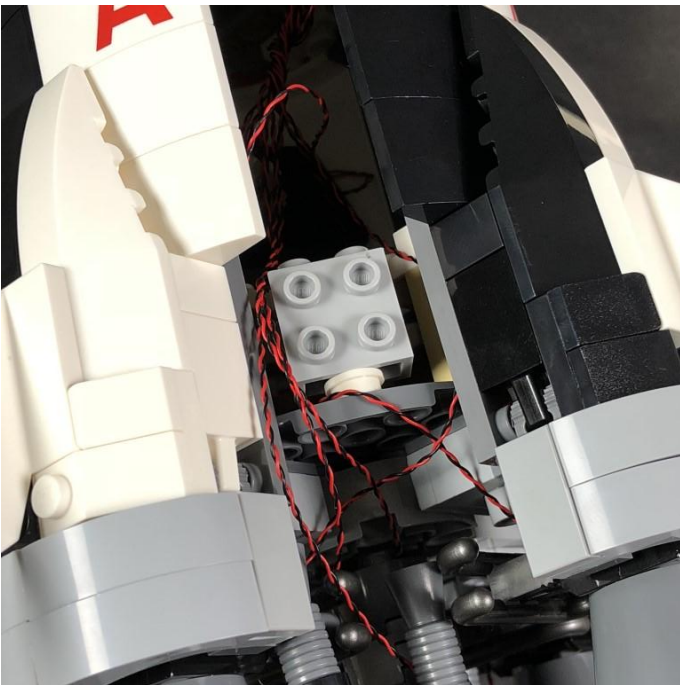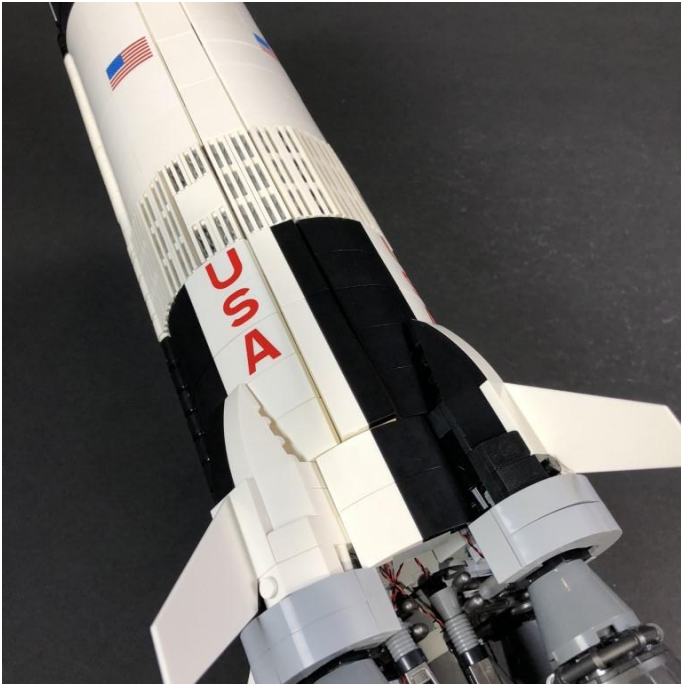**37.Turn the Battery Pack on and confirm all lights and effects are working OK**
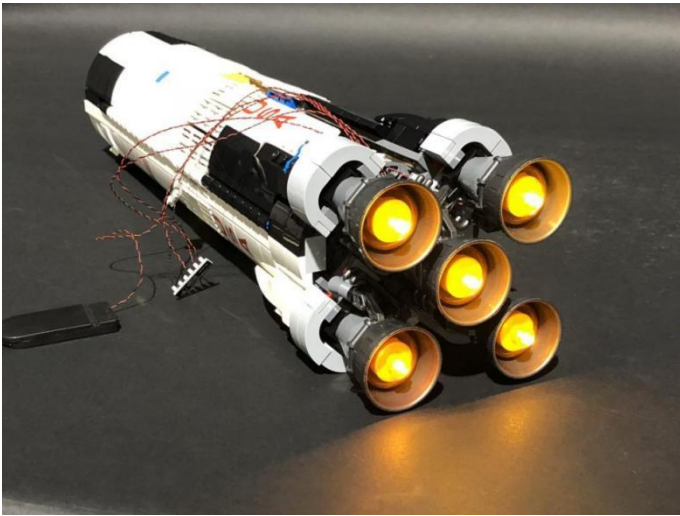
38.Eliminate excess cabling by grouping all the cables and twisting them around each other. Tuck everything in to the open middle section.

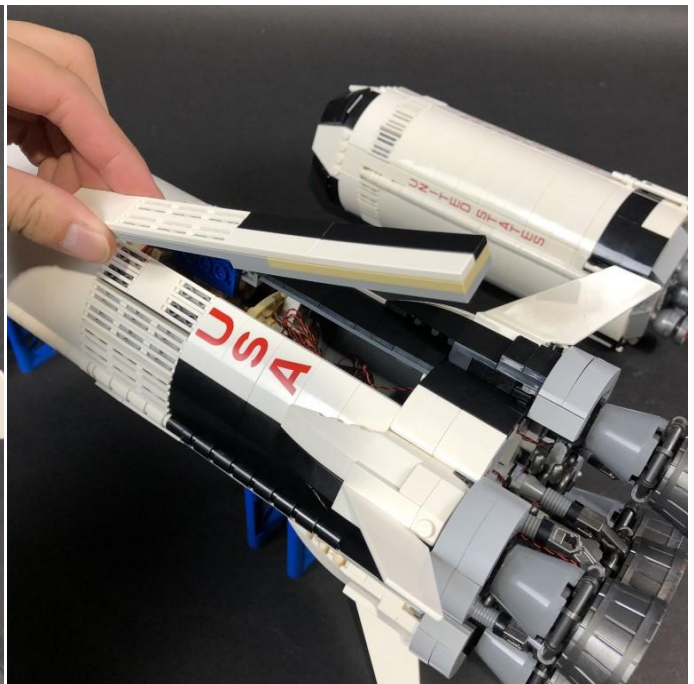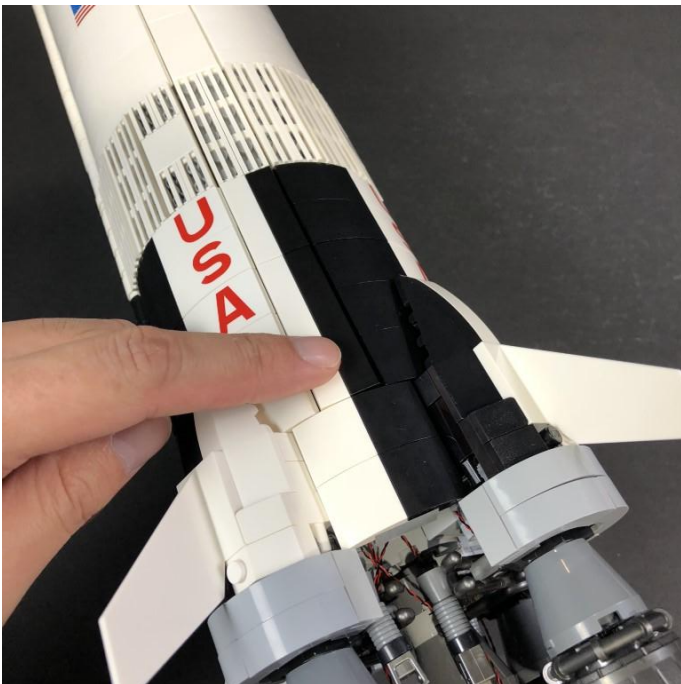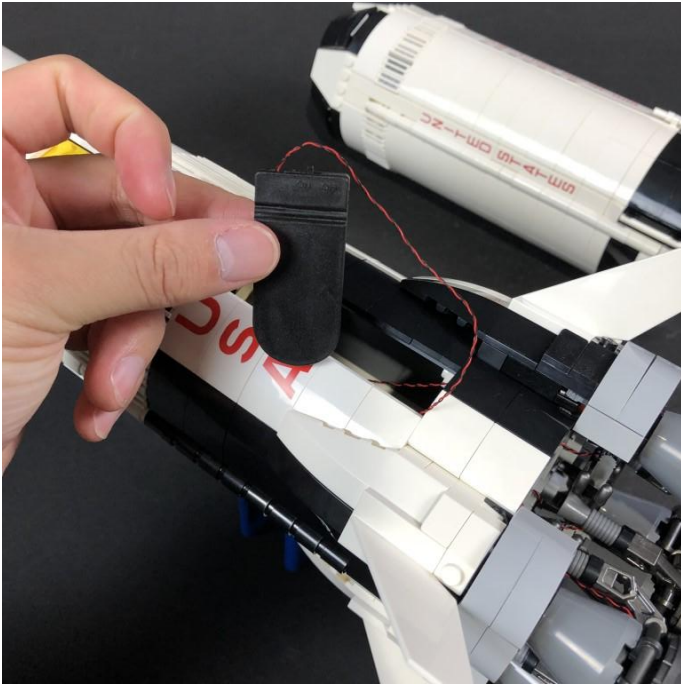**40.Reconnect remaining sections of the Rocket.**

42.To turn On and OFF the lights, simply detach the middle section to access the Battery Pack.

Good job, you've done all the installation steps, power it up and enjoy your work.