

# 10311 Orchid P34802

- P34802 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 “10311 P34802”.
- 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

**The PDF installation instructions are of great significance to the installation. If the content of the files cannot be understood, please return to our website to select the video instructions. Also if the video manual cannot be understood, please switch to the PDF manual.**

**Section A: Check the type and quantity of components.**

**There are 14 bags in this set. The name and quantities of specific components are as shown , please check carefully.**

Label	Content	Quantity
A01002 Light-15CM White	Light-15CM White	1
A01012 Light-30CM White	Light-30CM White	2
A01013 Light-30CM Pink	Light-30CM Pink	1
A01018 Light-15CM Pink	Light-15CM Pink	2
A01024 High-Brightness light 15CM-Warm White	High-Brightness light 15CM-Warm White	1
A01107 LED Strip Slow Flash Multi-Colour	LED Strip Slow Flash Multi-Colour	2
A012 Expansion Board	6 Socket Expansion Board	1
	8 Socket Expansion Board	1
A01305 Power Supply	Power Supply	1
A01501 Connecting Cable 5CM	Connecting Cable 5CM	2
A01506 Connecting Cable 20CM	Connecting Cable 20CM	2
A02537 Light Strip-Blue	Light Strip-Blue	1
A02538 Light Strip-Cyan	Light Strip-Cyan	1
A041 Action Control Module	Action Control Module	1
Components		

**Please contact us immediately if there have any missing components.**

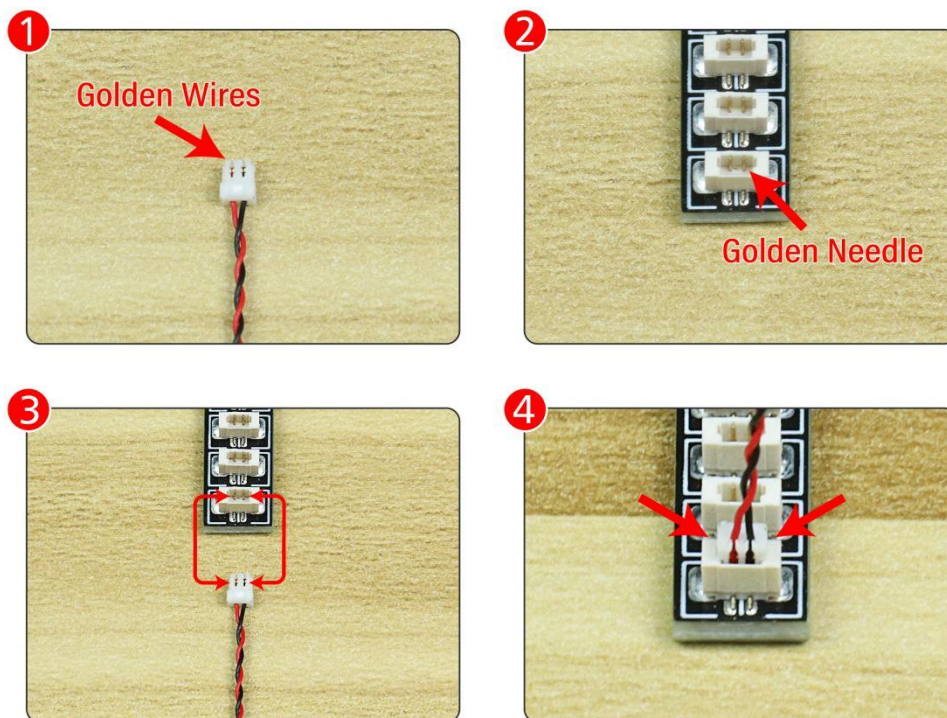
## Section B: Test that each components is working properly.

We need a structure to test all lights, so take out the bag with label “USB Power Cord” and “Expansion Boards” as follows.



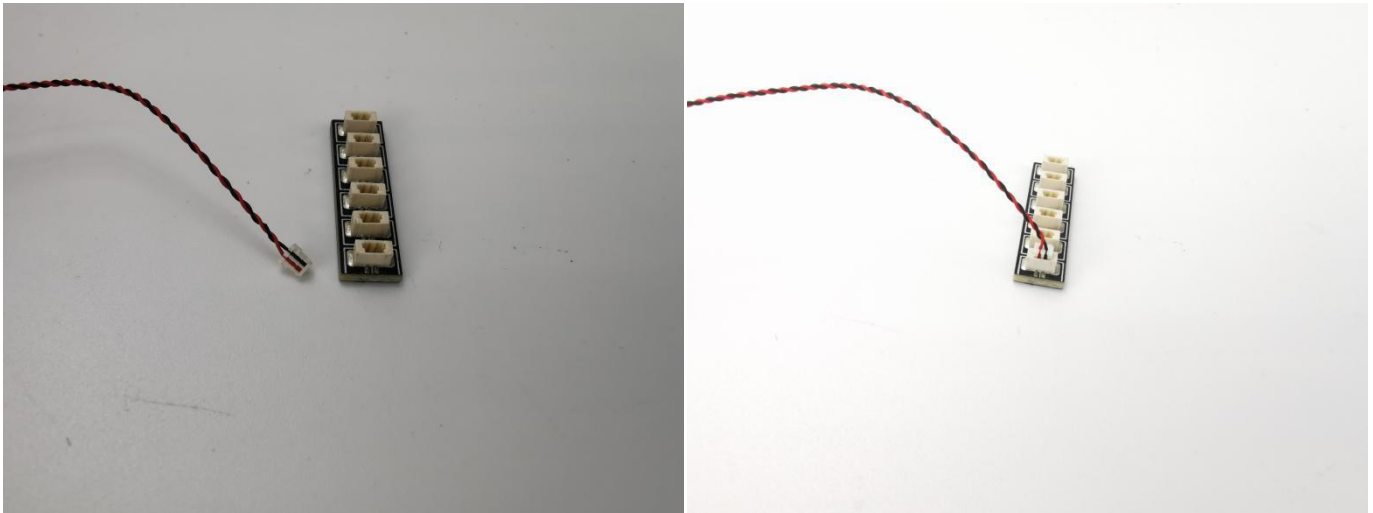
It is worth reminding that our products are all customized. They have a unique way of connecting. The white plug on wire and the socket of the expansion board need to be connected together to transmit power.

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 USB Power Cord and Expansion Boards is as follows:



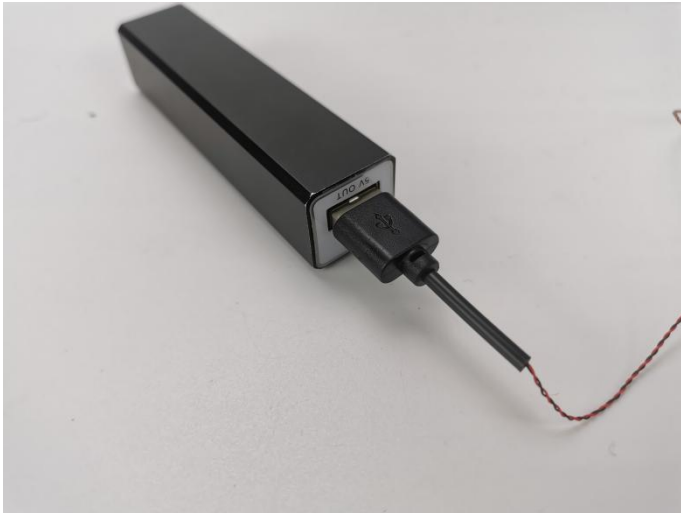
The USB Power Cord can be powered by phone chargers, power banks, etc.

USB connectors to connect devices

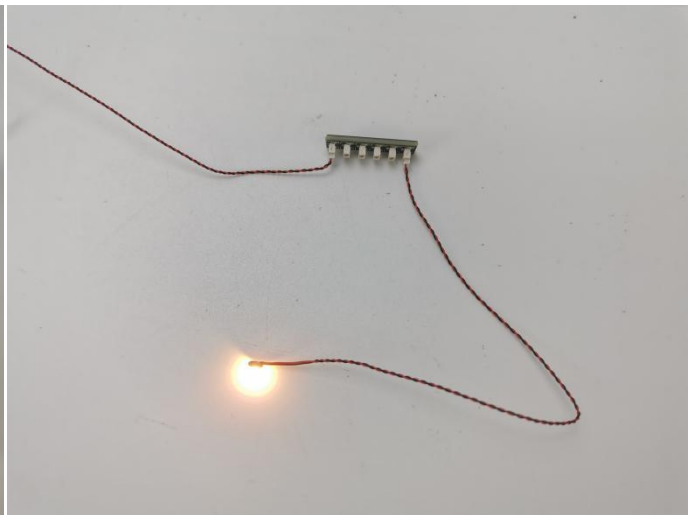


This instruction will use the power bank as power supply . The test structure is shown as follow. All lamp in this set will be tested by this structure.

The battery box can also power the set. If it is necessary to change the power supply , prepare three AAA batteries, install them in the battery box, turn on the switch on the battery box, remove the plug of the USB Power Cable from the socket of the expansion board,plug the plug of the battery box to the same socket in the expansion board to power the suit as well.



when we test "High-Brightness light 15CM-Warm White" particles,Take out the bag labelled "High-Brightness light 15CM-Warm White".Take out one of the light and connect it to the socket. Turn on the power bank, 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 1\*Light-15CM White, 2\*Light-30CM White, 1\*A01013 Light-30CM Pink, 2\*Light-15CM Pink, 2\*LED Strip Slow Flash Multi-Colour, 1\*Light Strip-Blue, 1\*Light Strip-Cyan.**

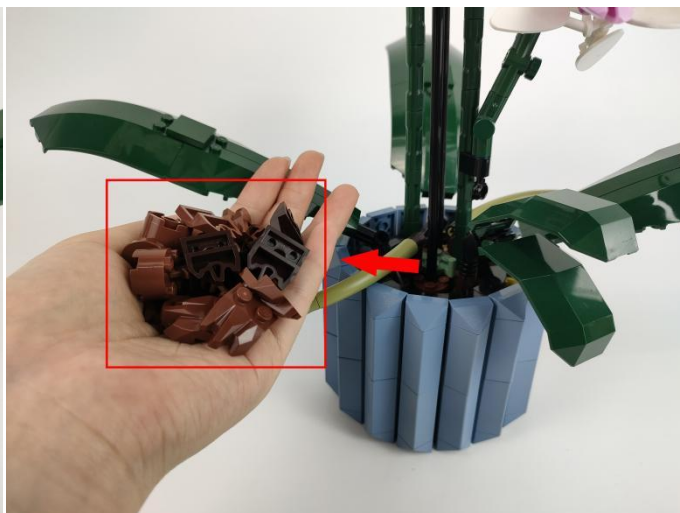
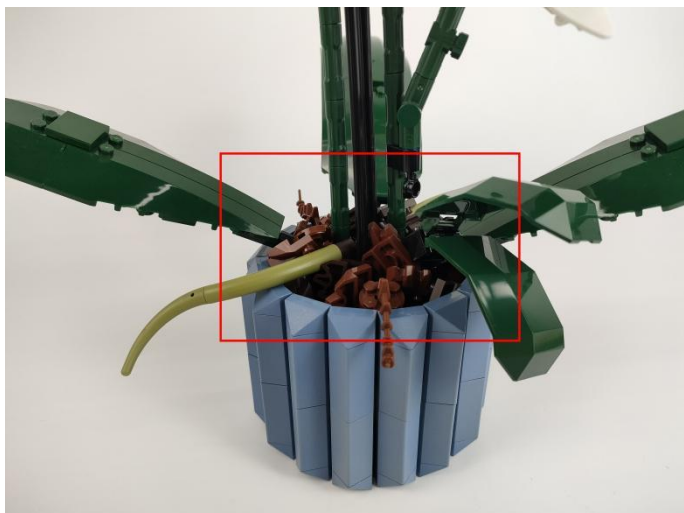
**Please contact us immediately if any components don't work.**

**Section C:** laying out components following the instruction.

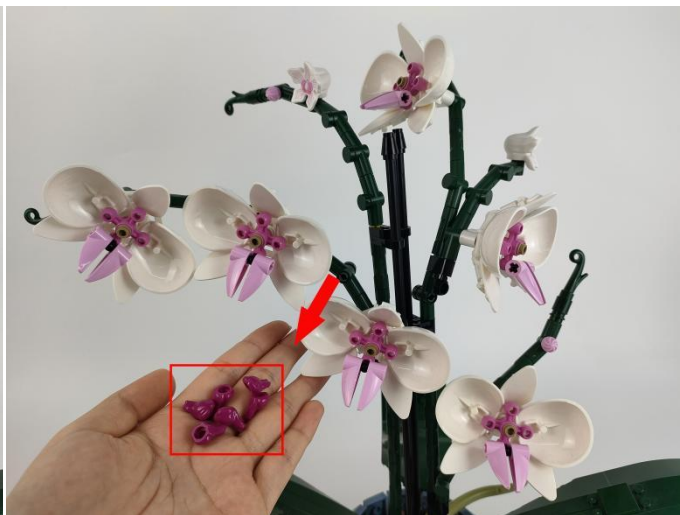
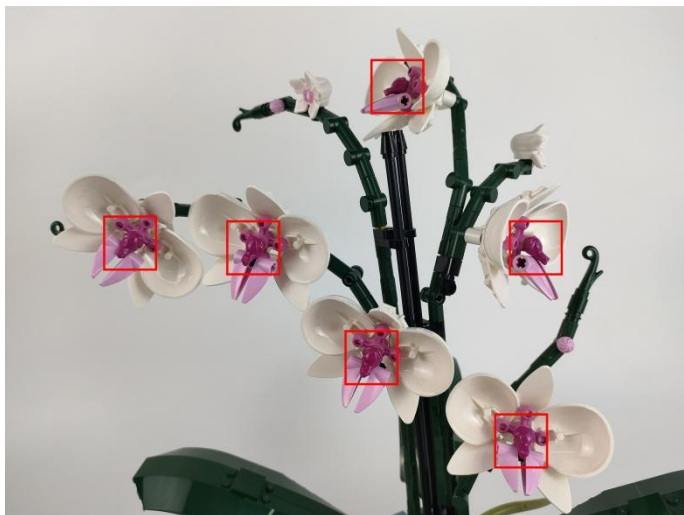
**1**



**2**



**3**



**4**





5



6



7

## 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:

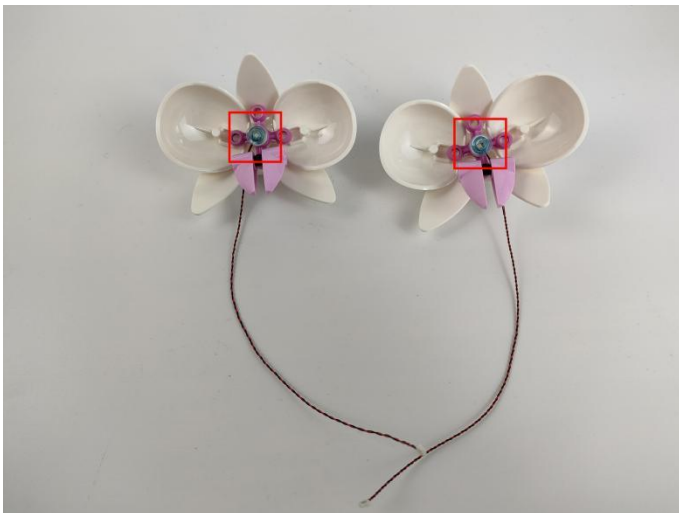
### The plate with slit:

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

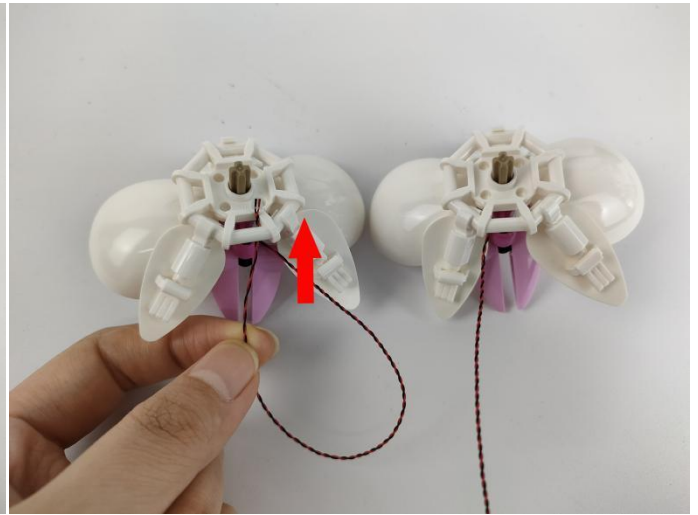


The slit on the the plate round 1X1 are hand-made to avoid squeeze the wire and cause short circuit and abnormal heat during installation.

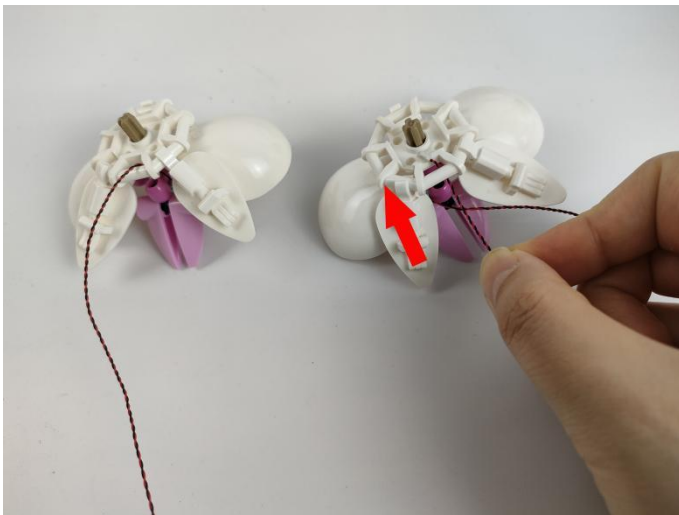
8



9



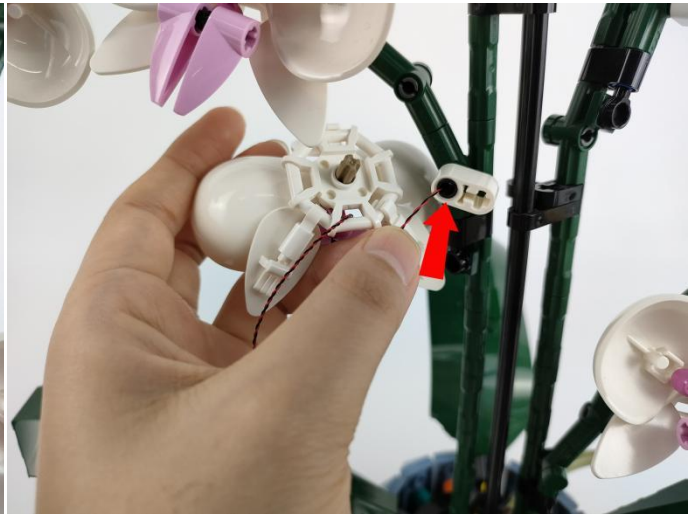
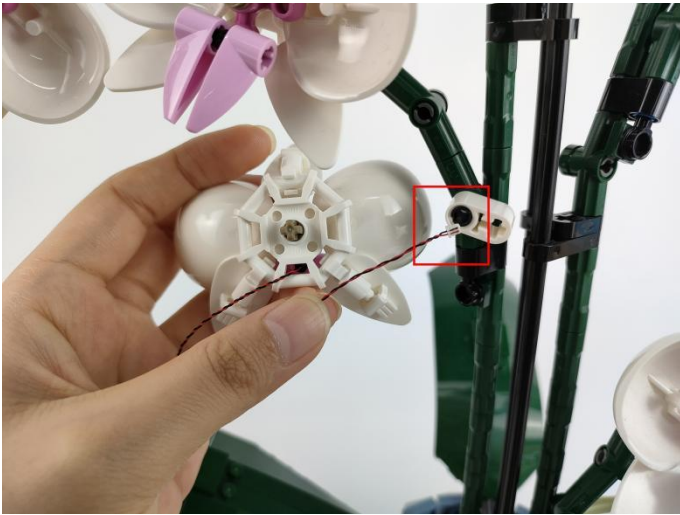
10



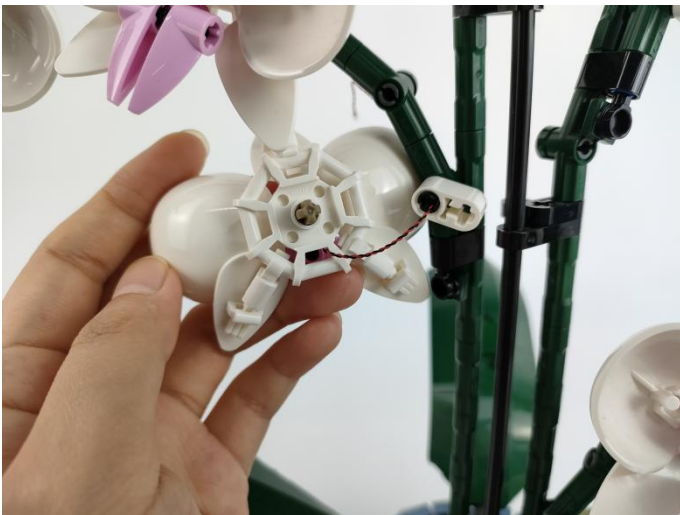
11



12



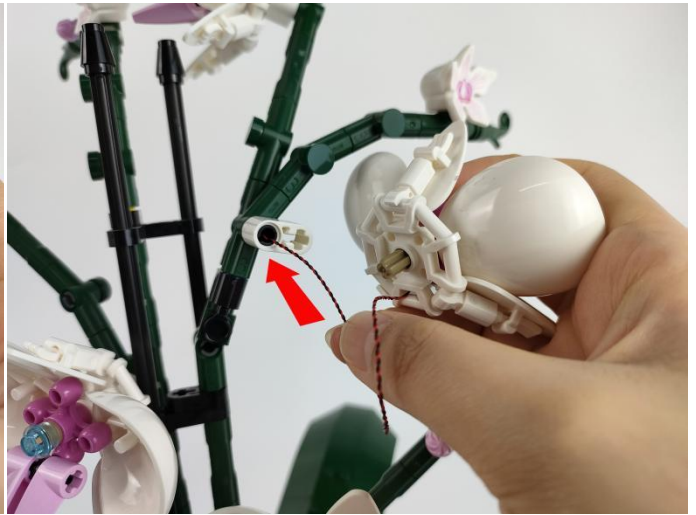
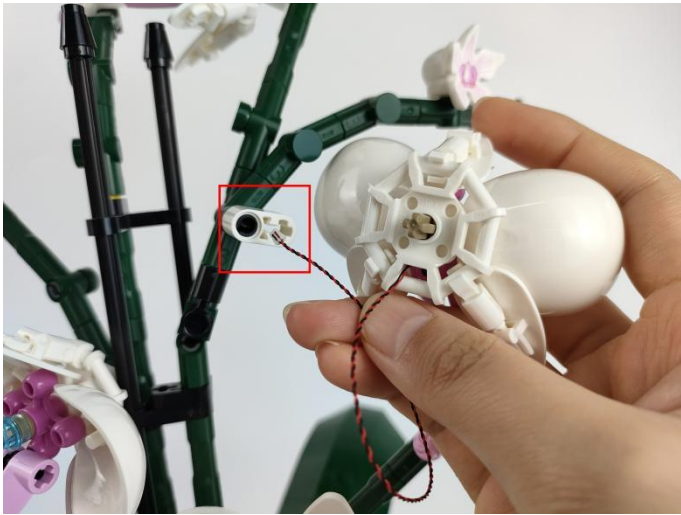
13



14



15



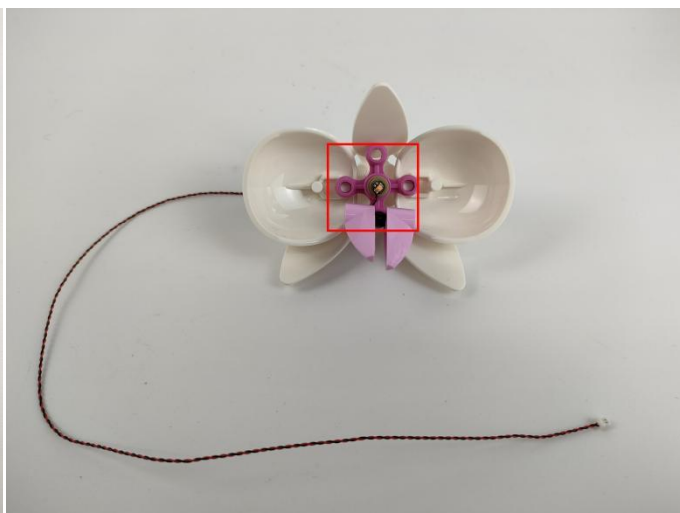
16



17



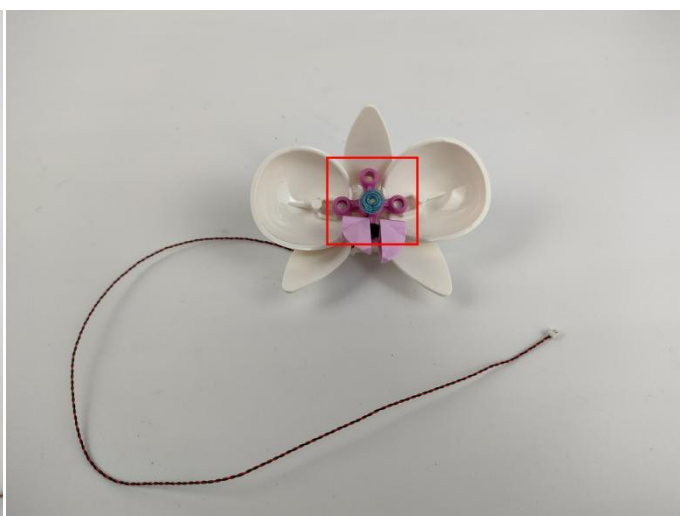
18



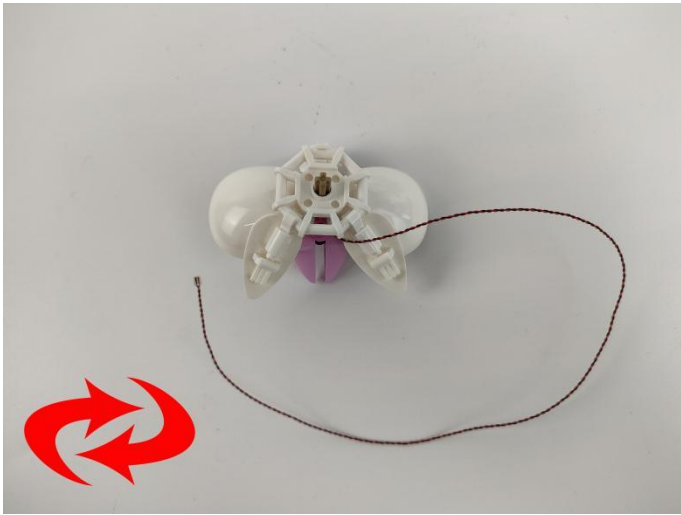
19



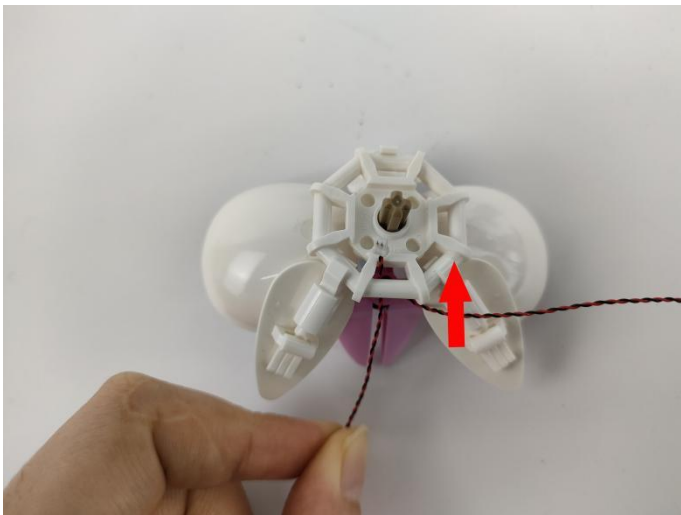
20



21



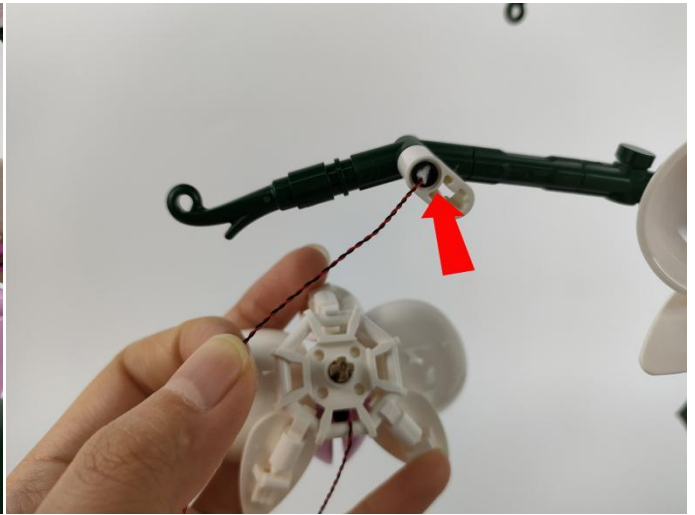
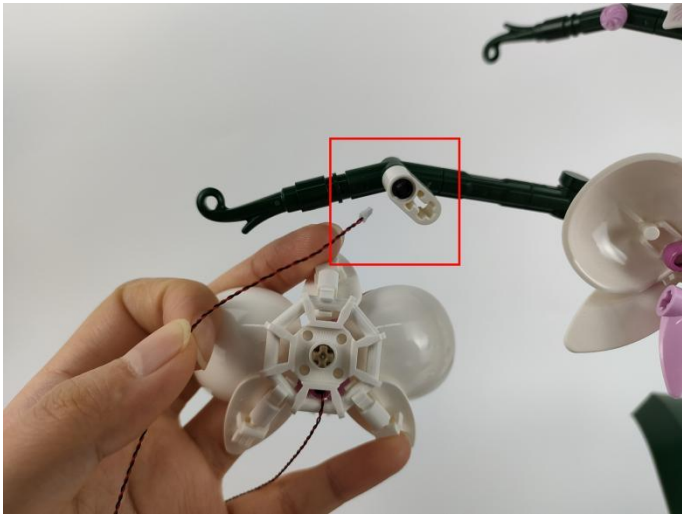
22



23



24



25

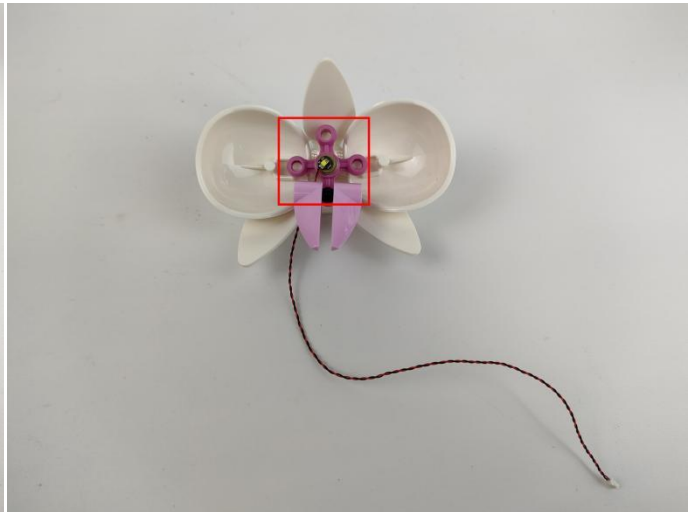


26





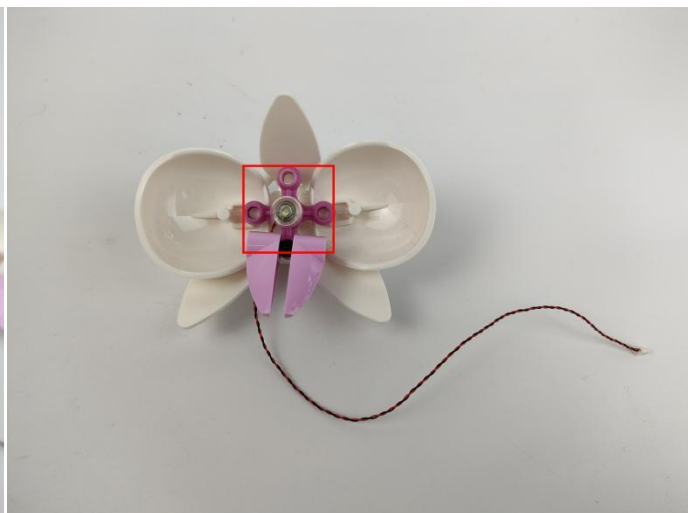
27



28



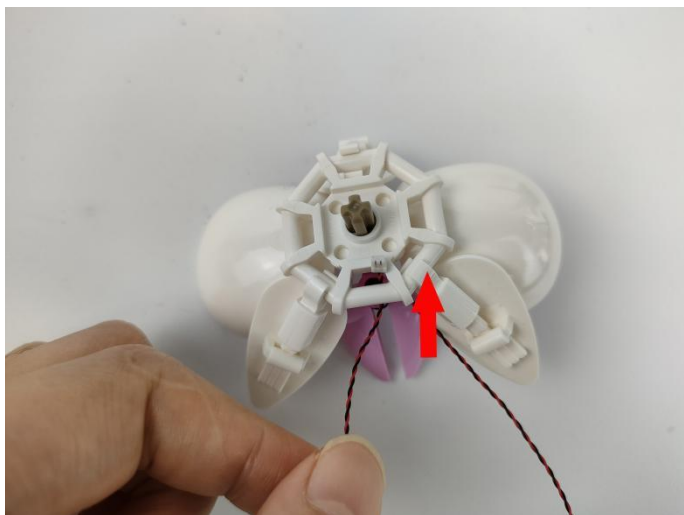
29



30



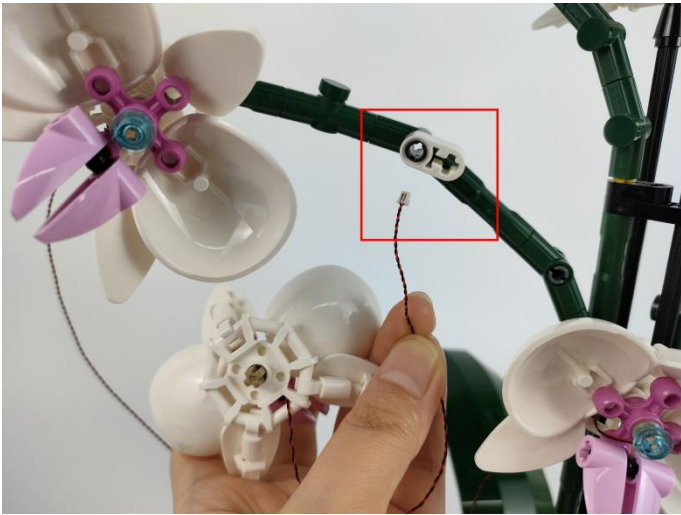
31



32



33



34



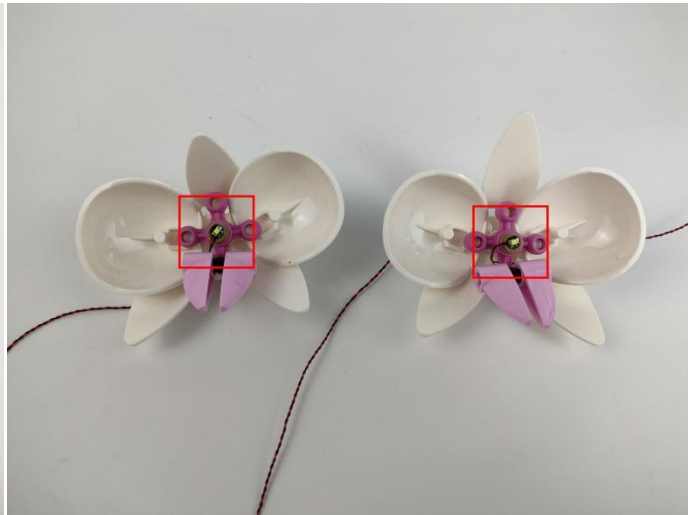
35



36



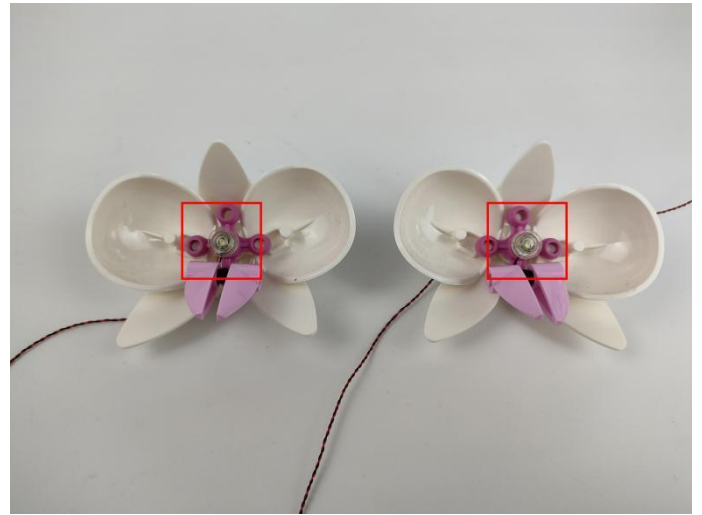
37



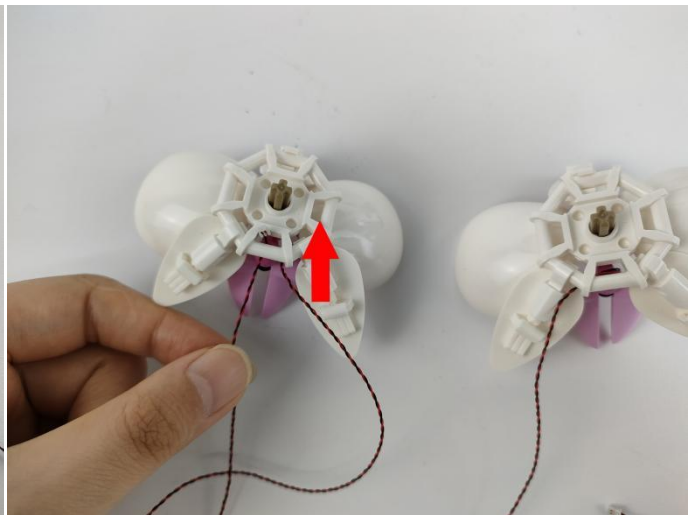
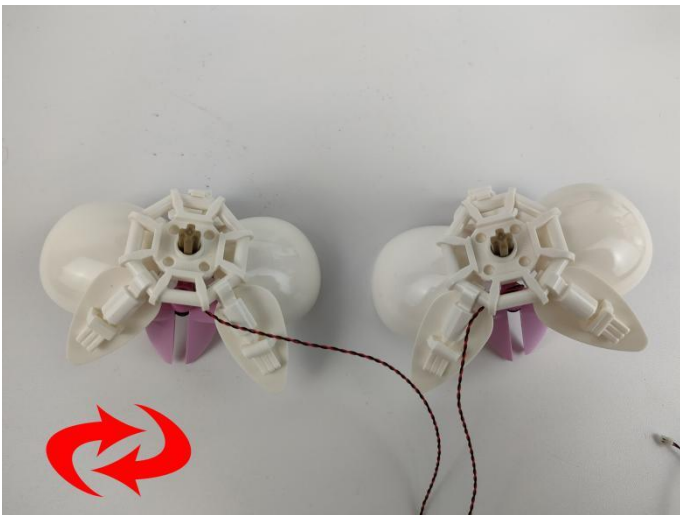
38



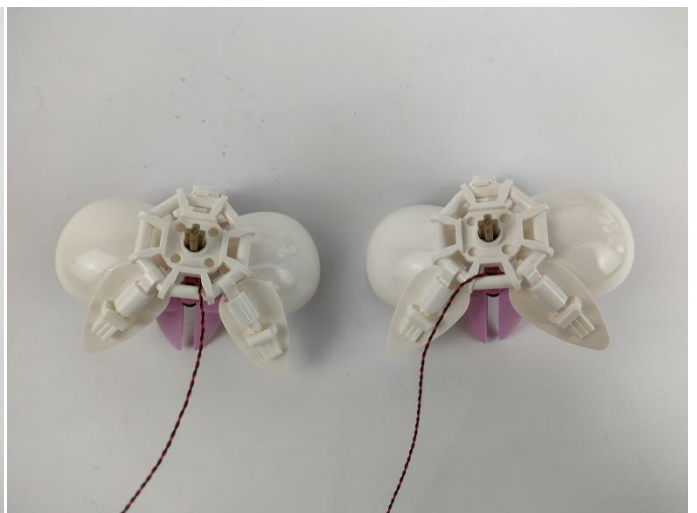
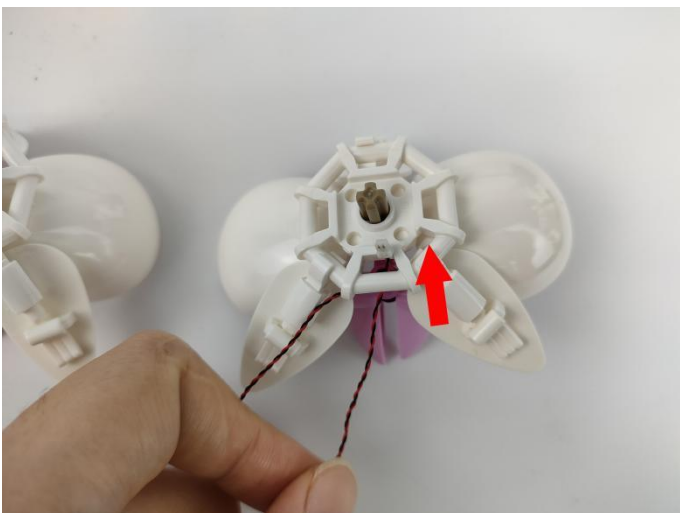
39



40



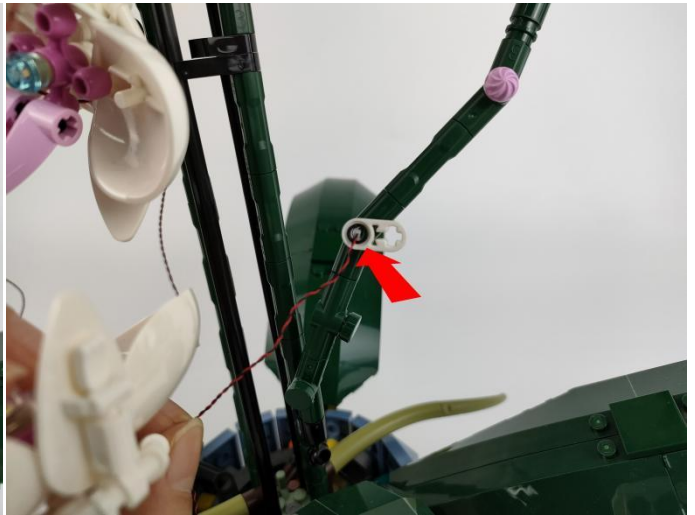
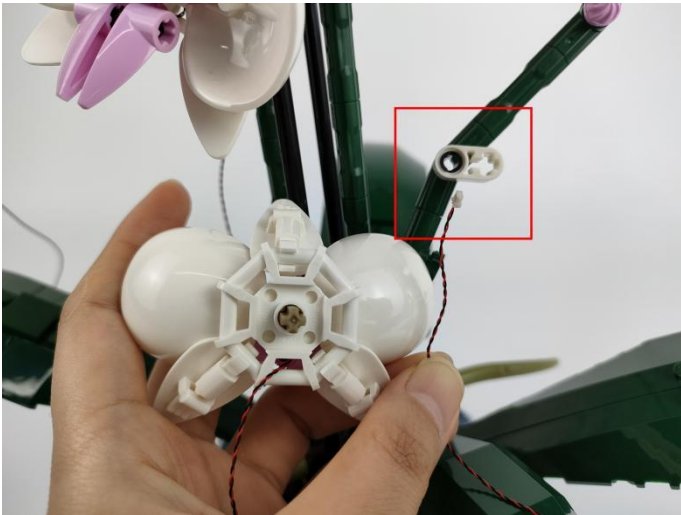
41



42



43



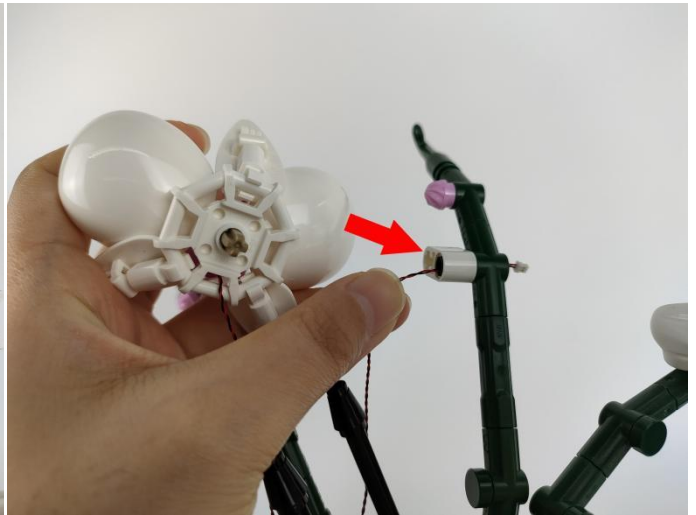
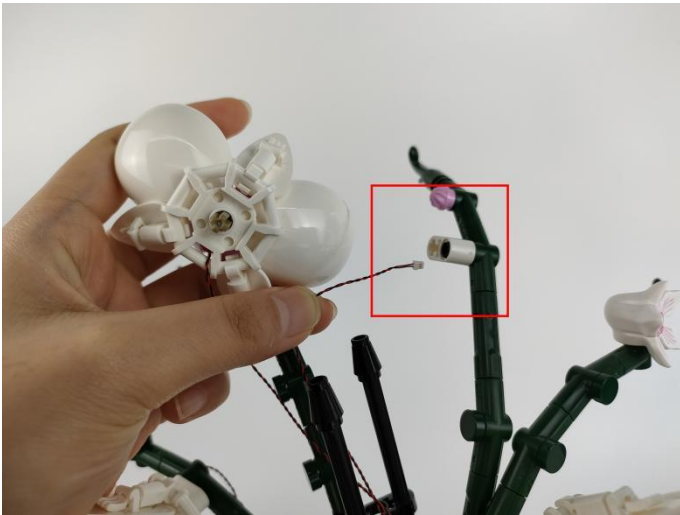
44



45



46



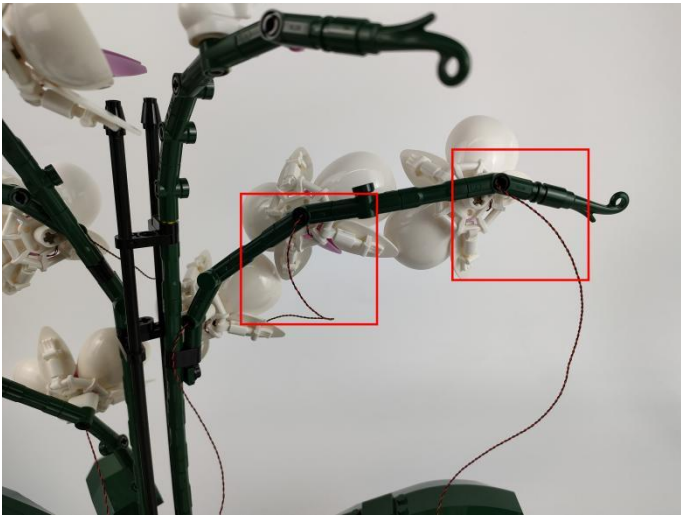
47



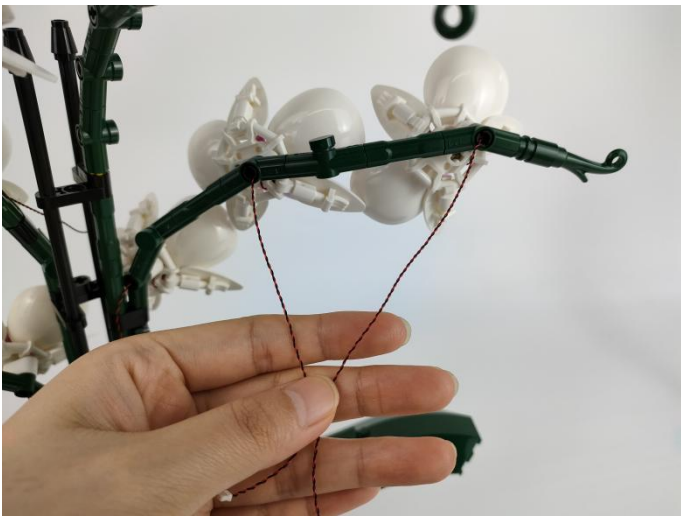
48



49

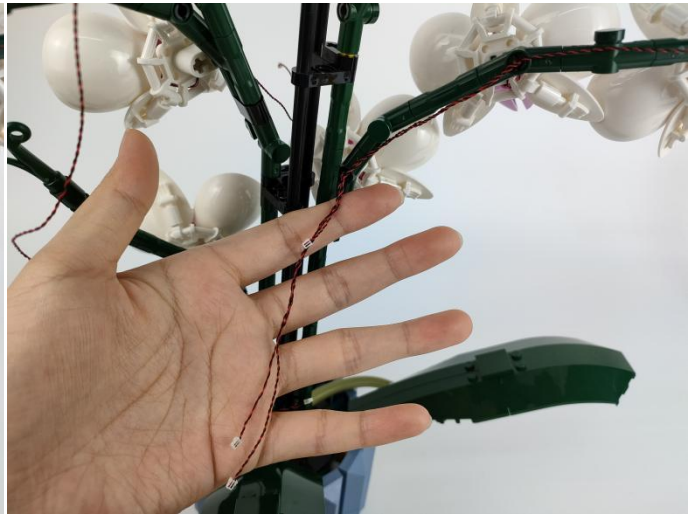
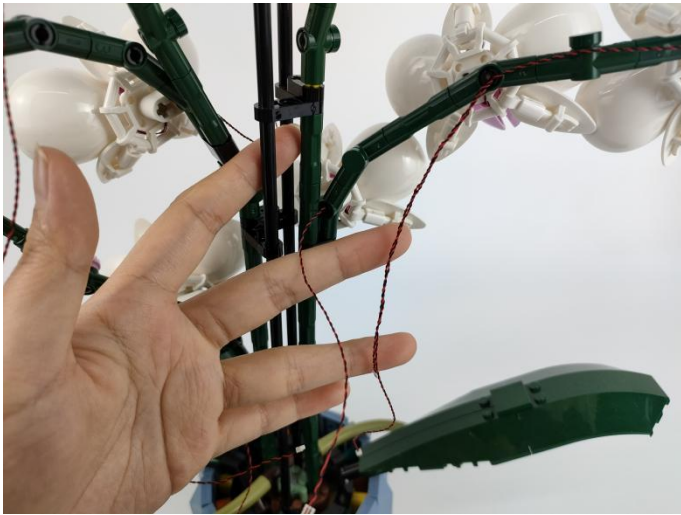


50





51



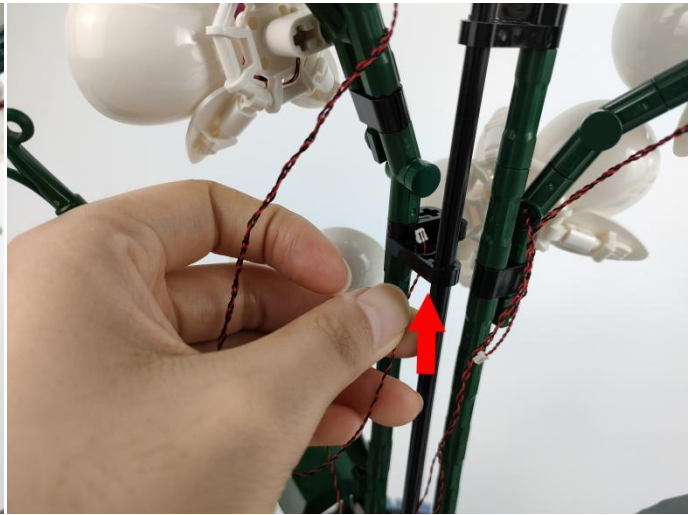
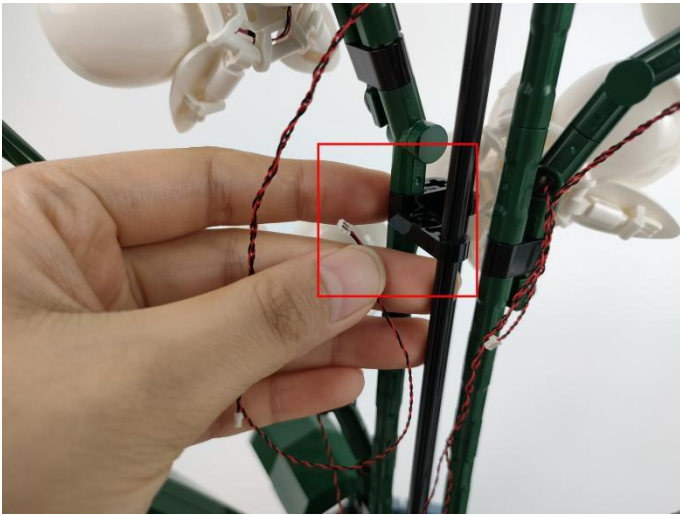
52



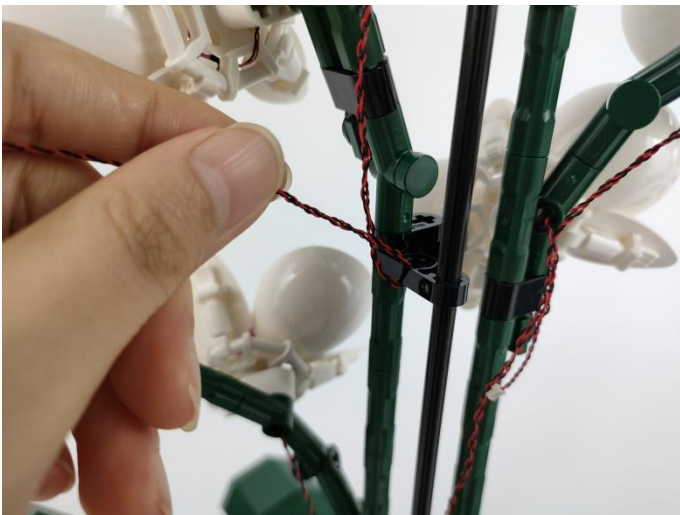
53



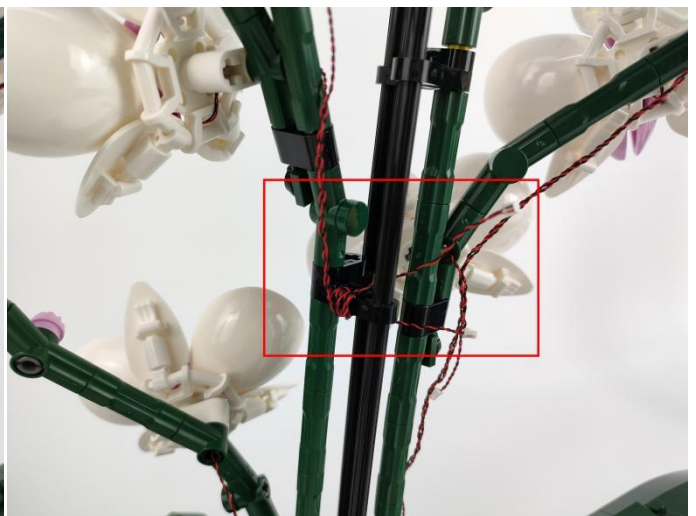
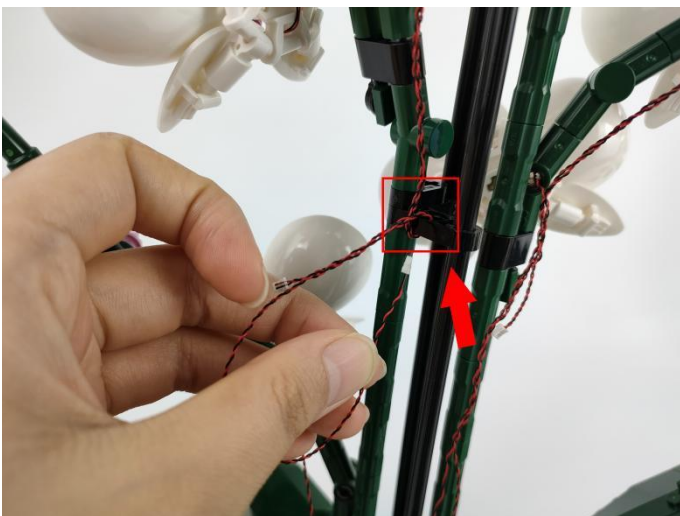
54



55



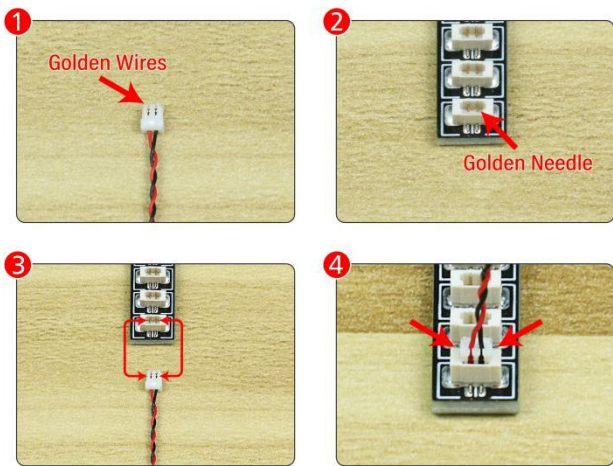
56



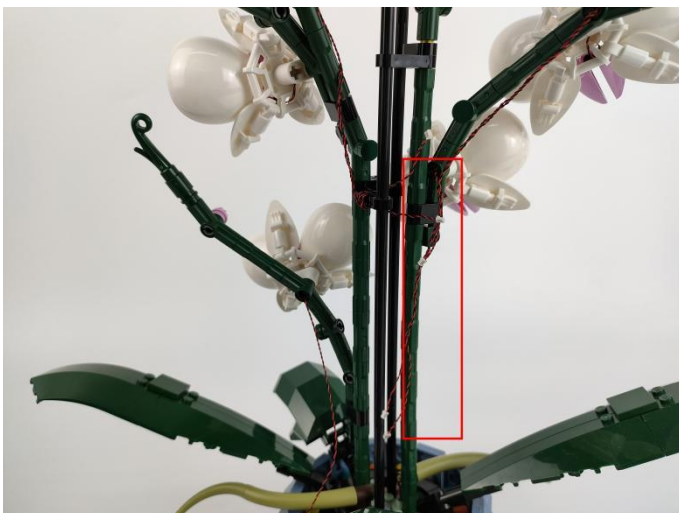
57



58



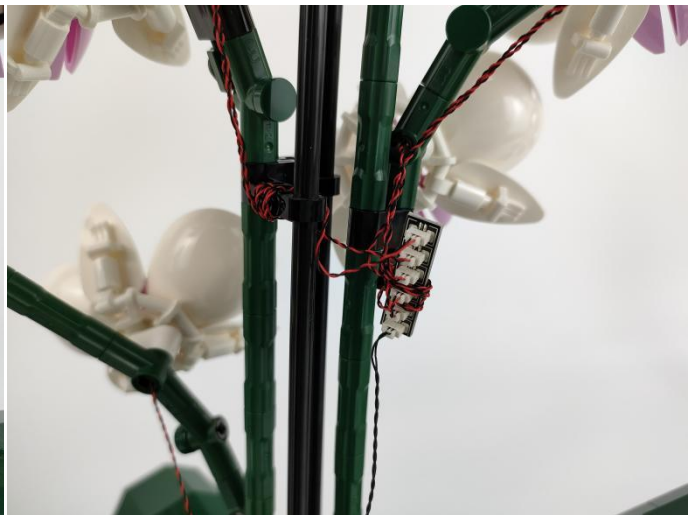
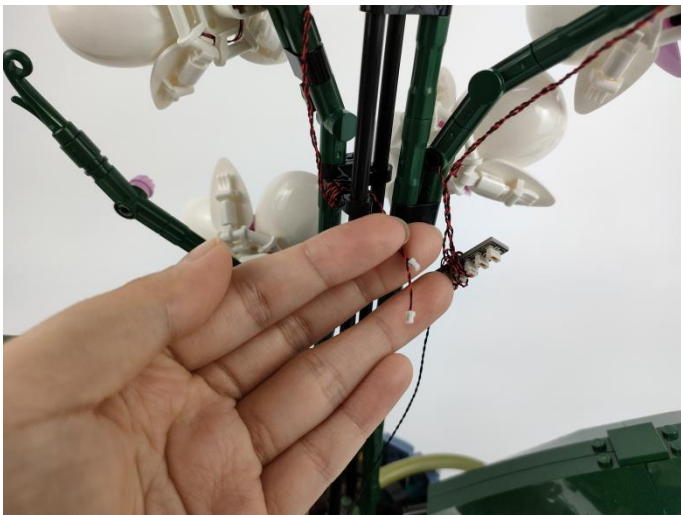
59



60



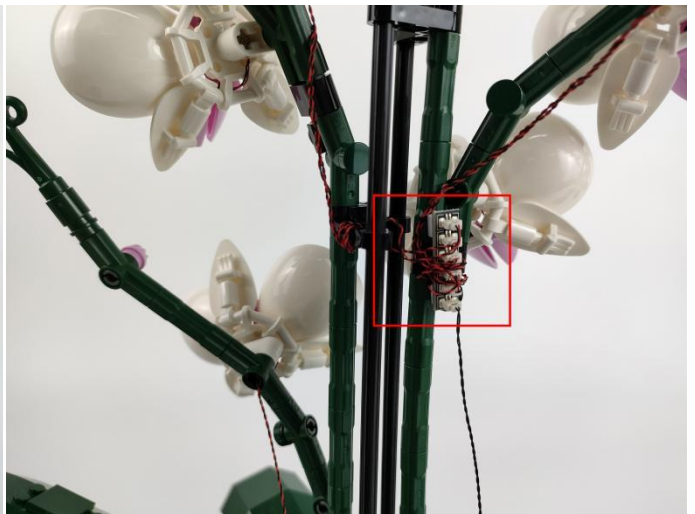
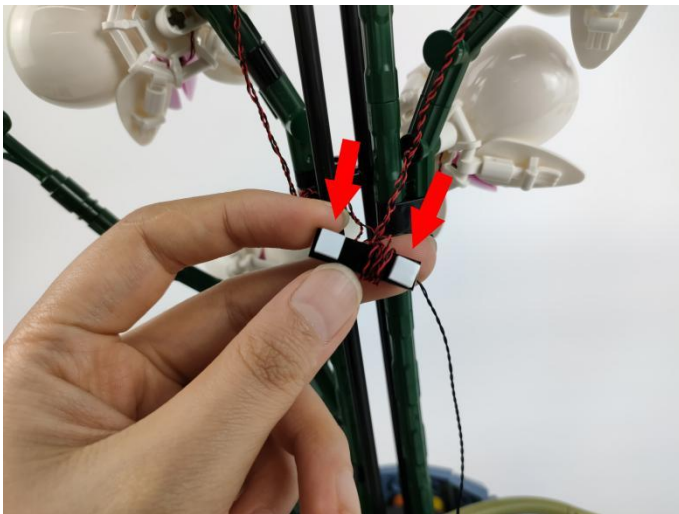
61



62



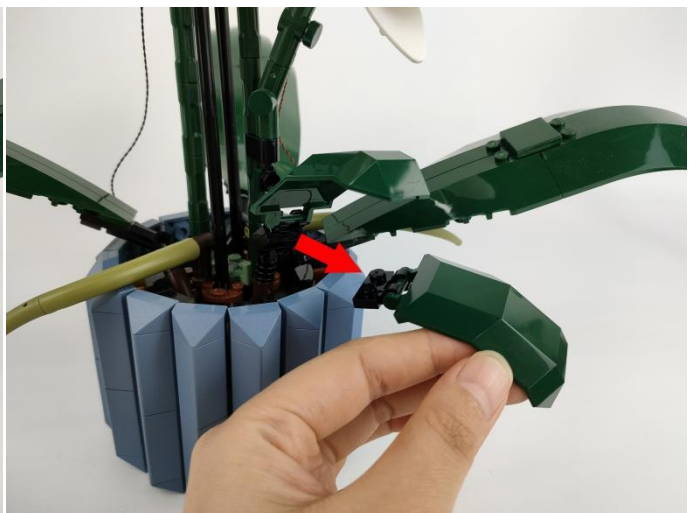
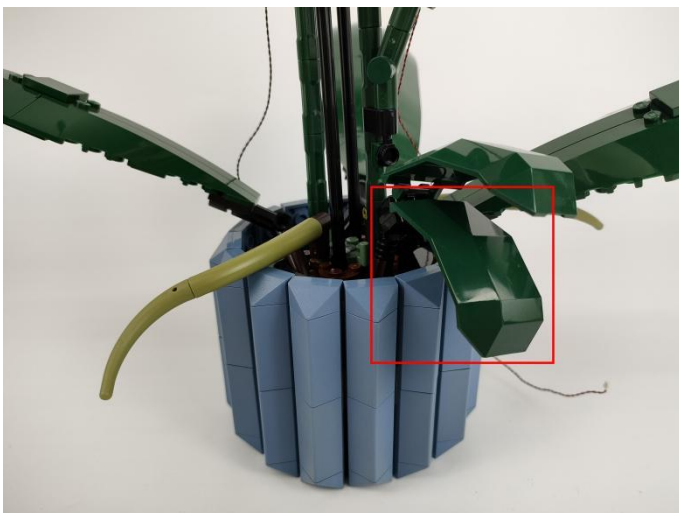
63



64



65



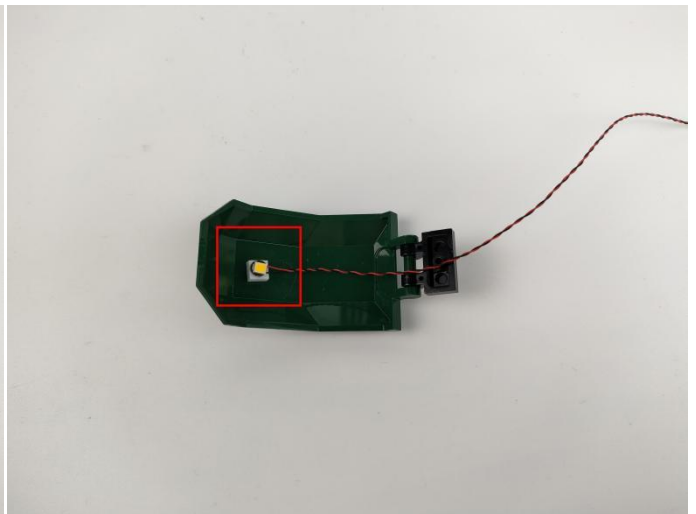
66



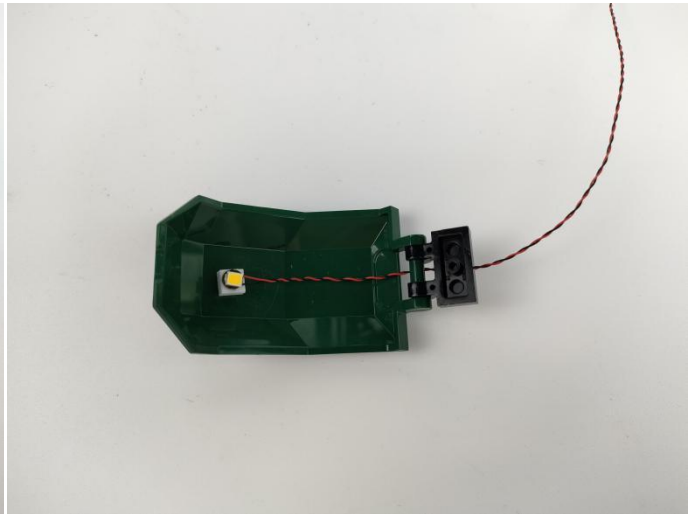
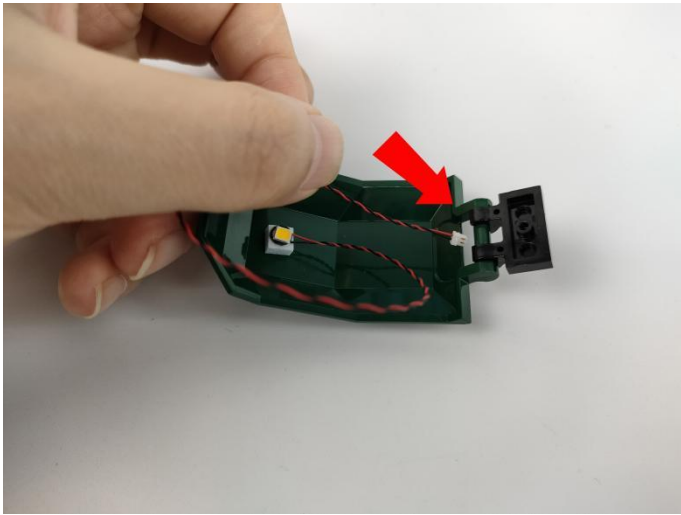
67



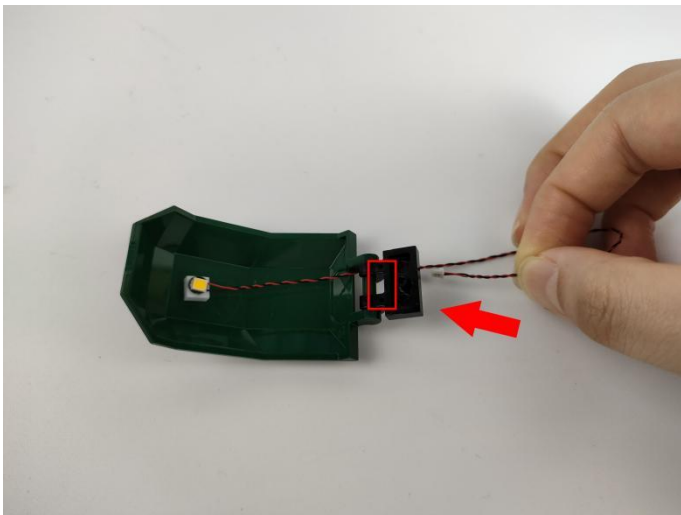
68



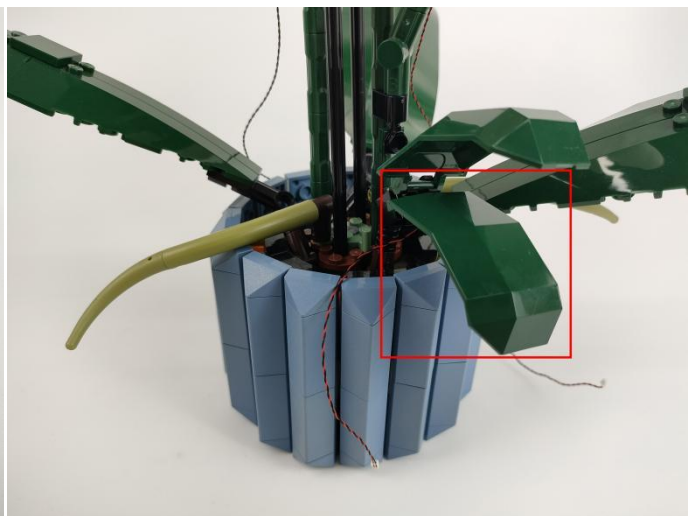
69



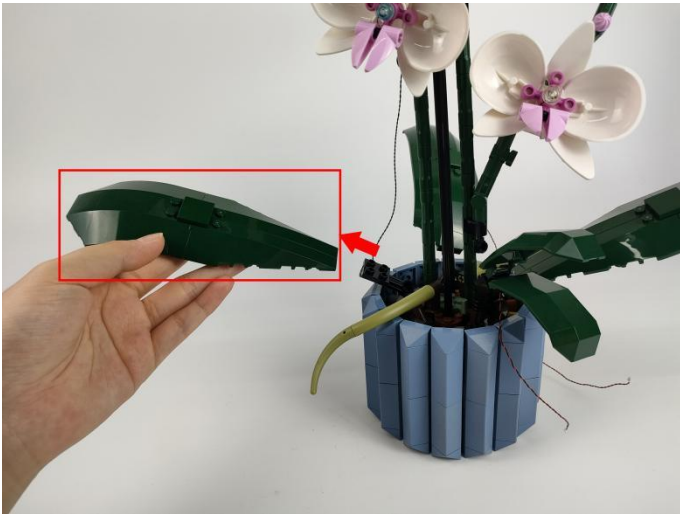
70



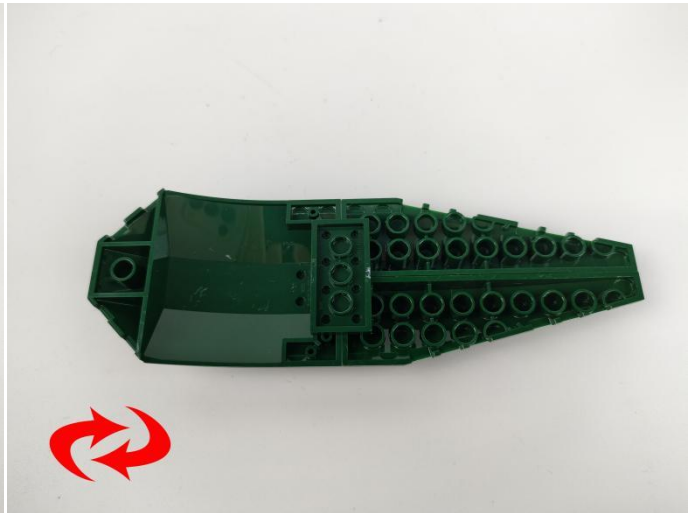
71



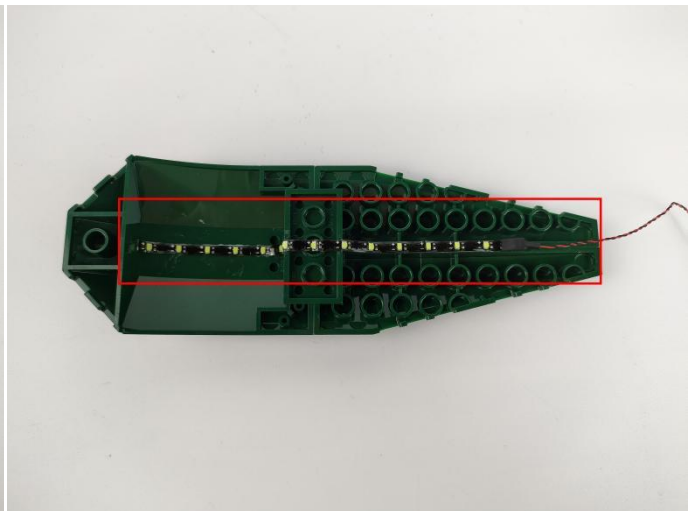
72



73

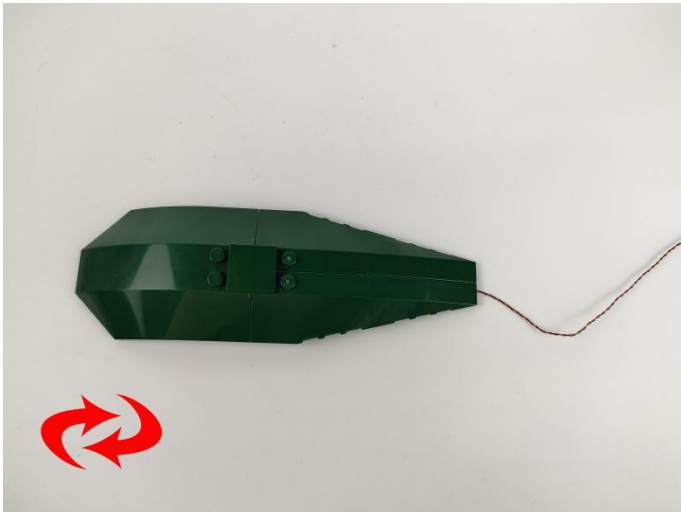


74

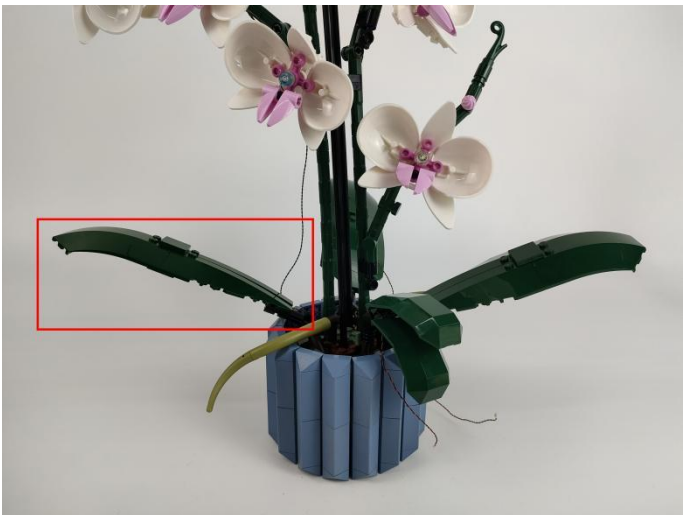
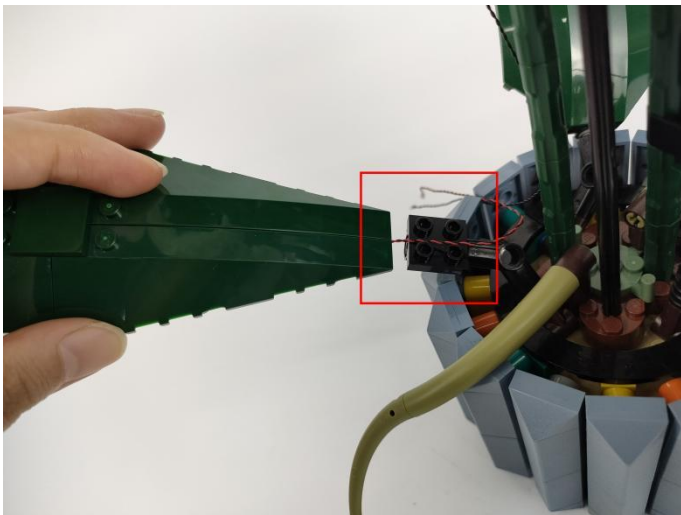




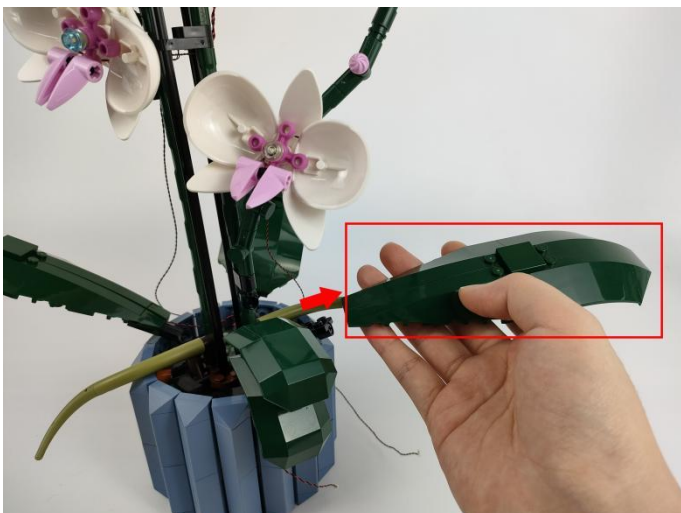
75



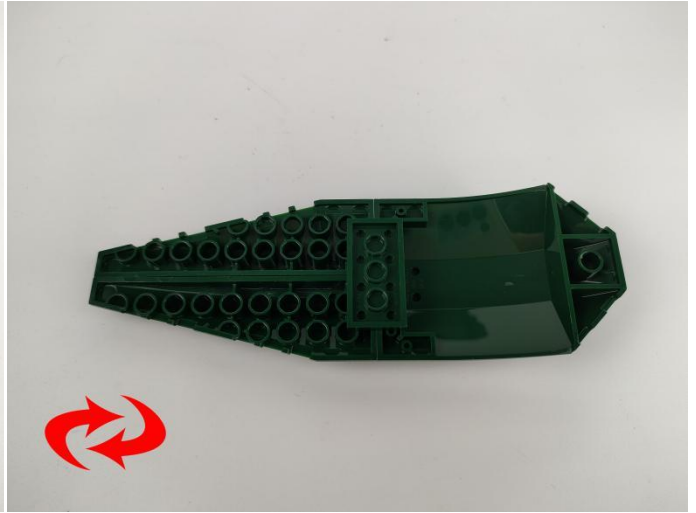
76



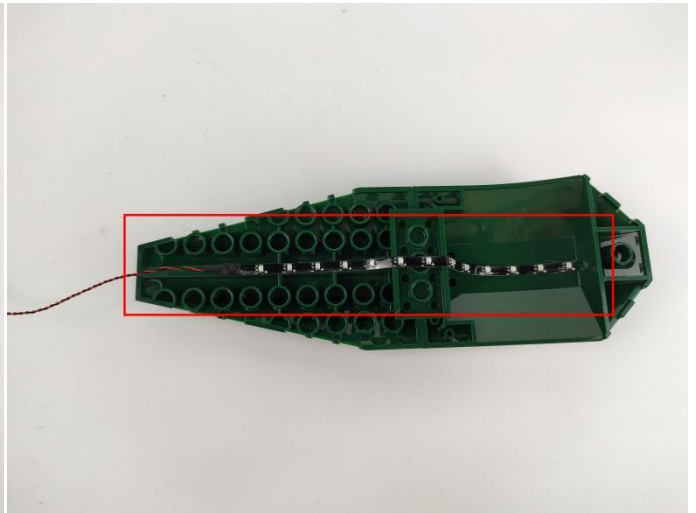
77



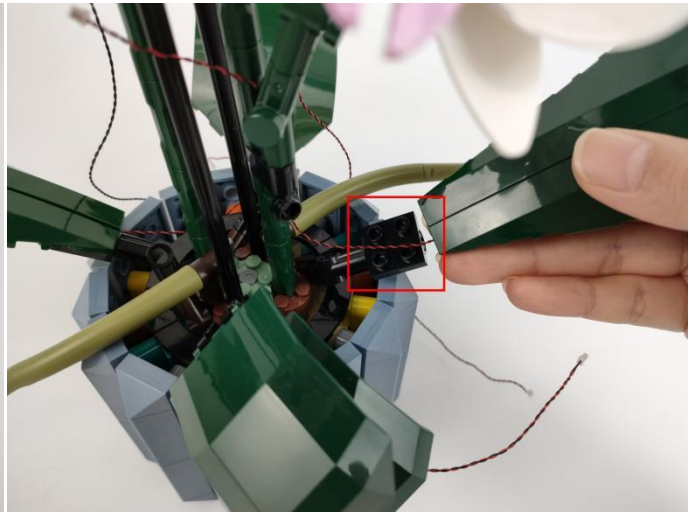
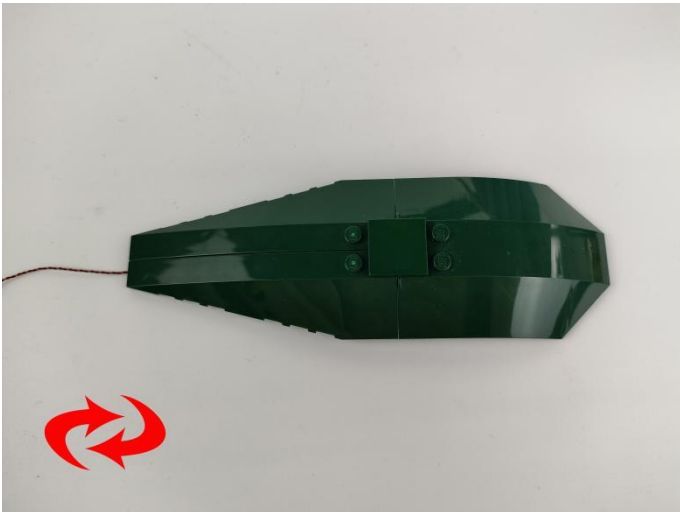
78



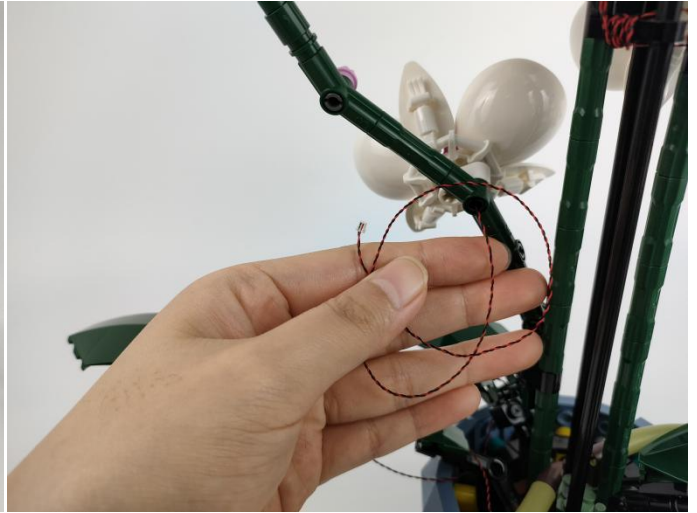
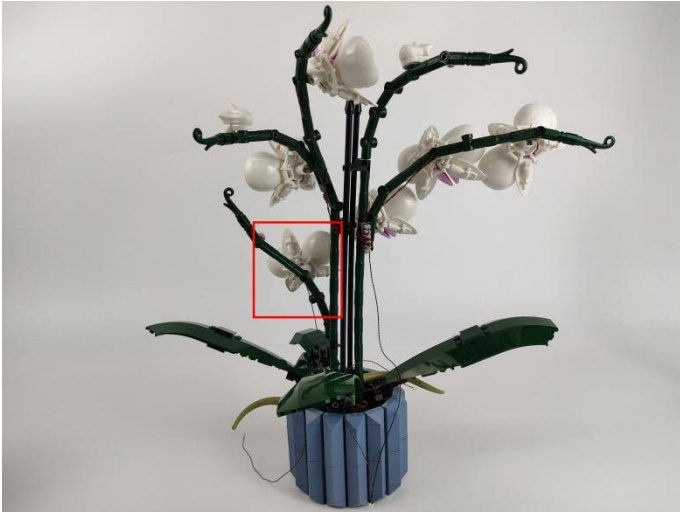
79



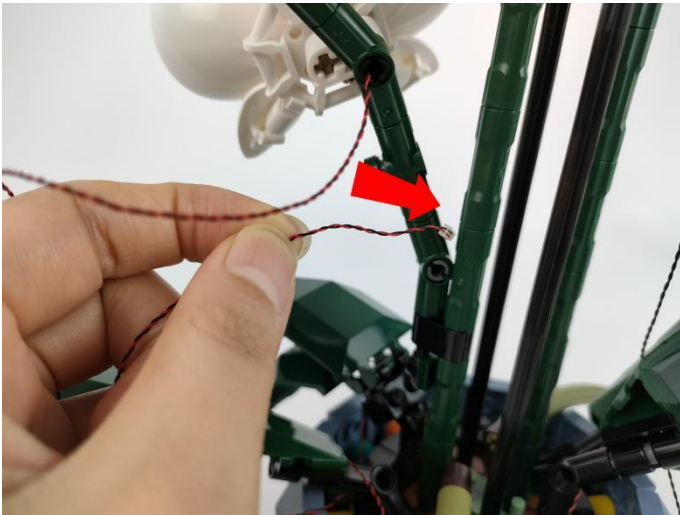
80



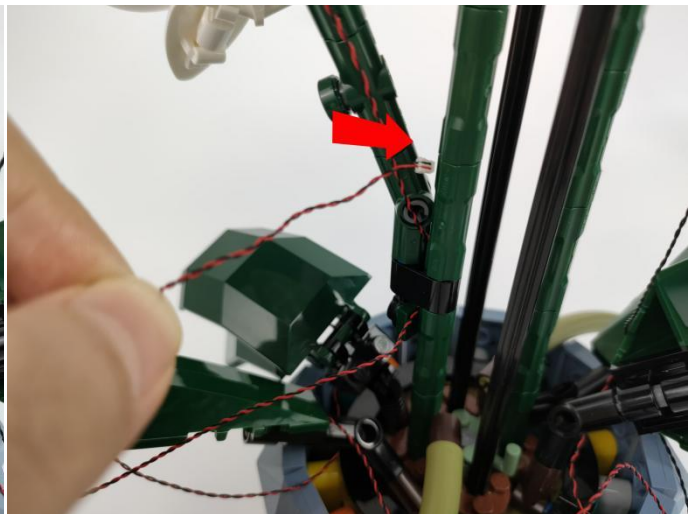
81



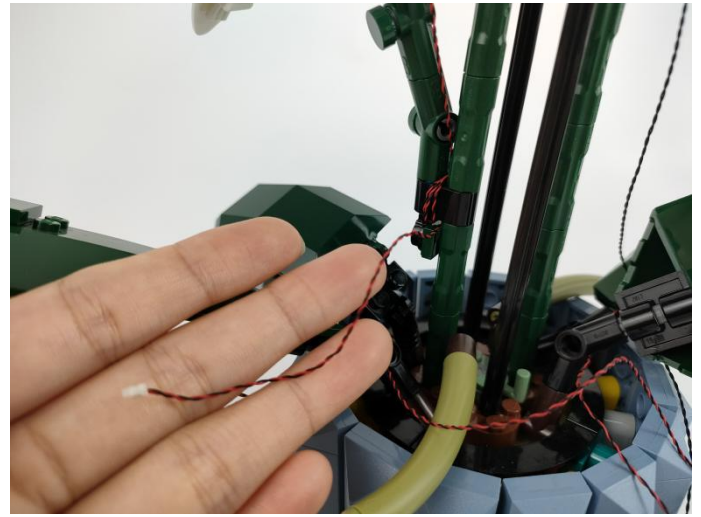
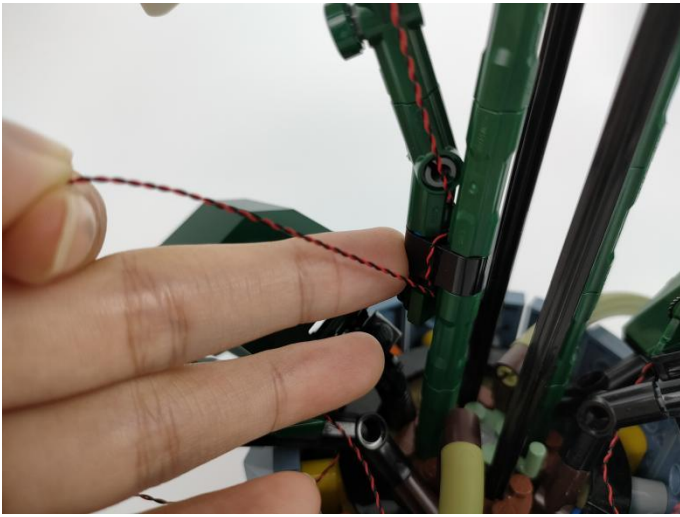
82



83



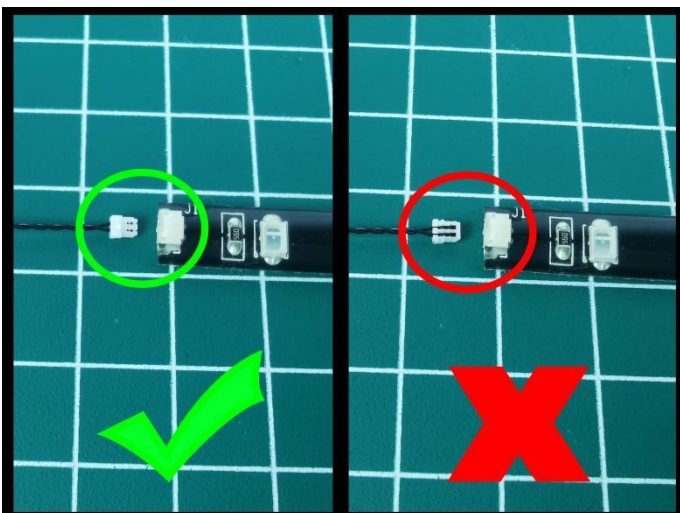
84



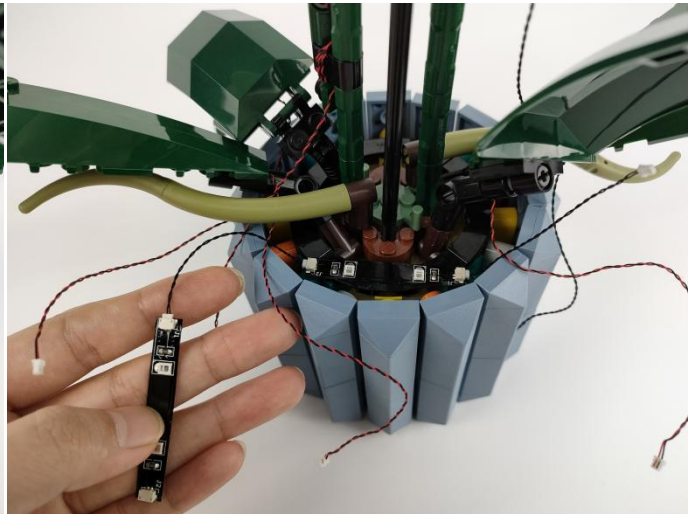
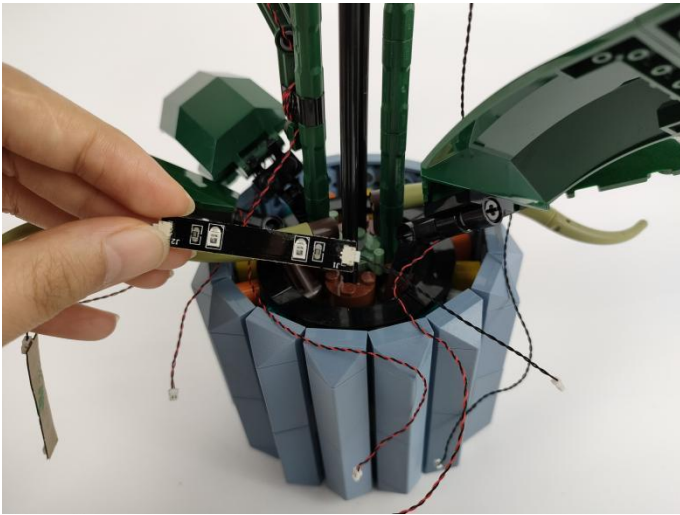
85



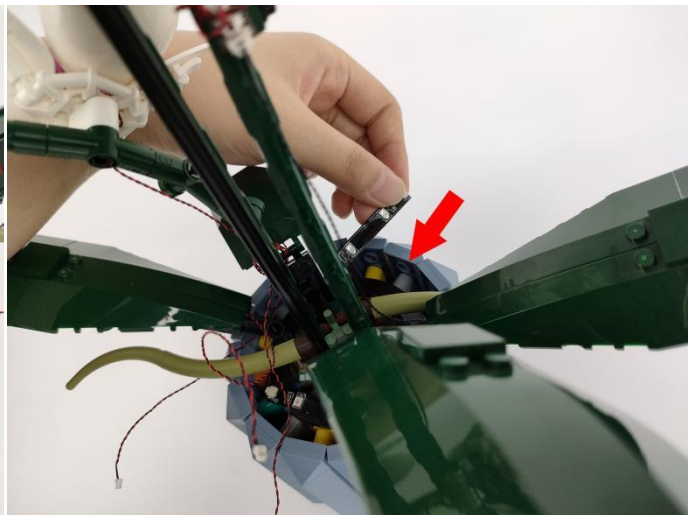
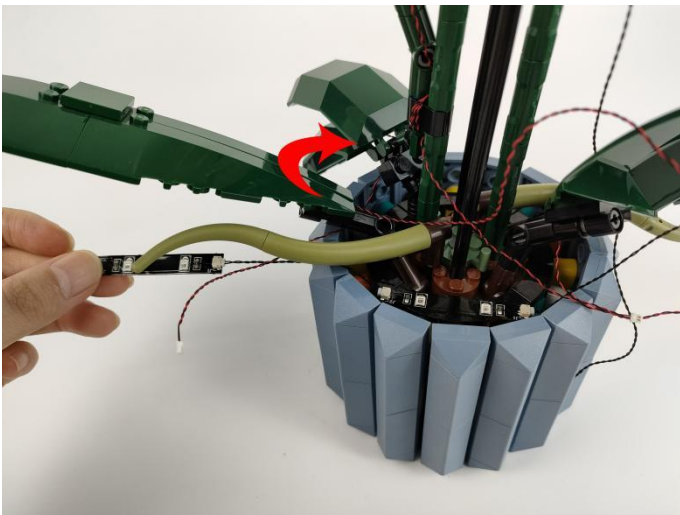
86



87



88



89



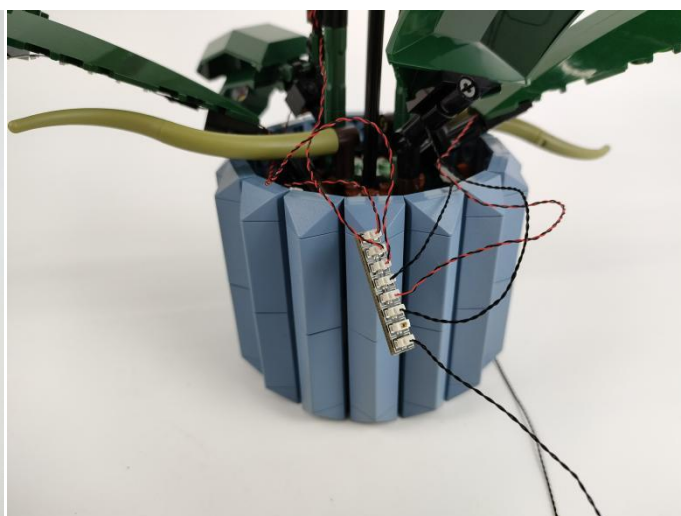
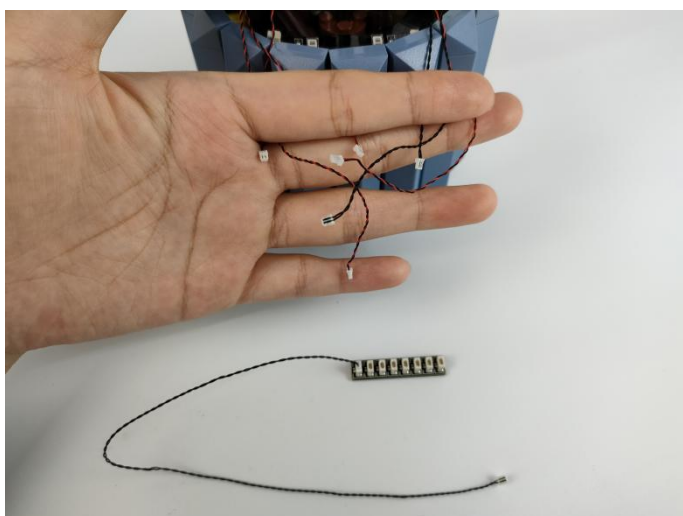
90



91



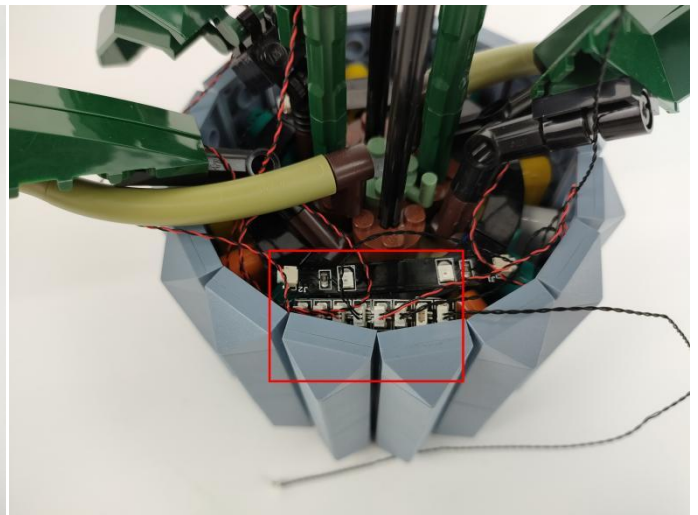
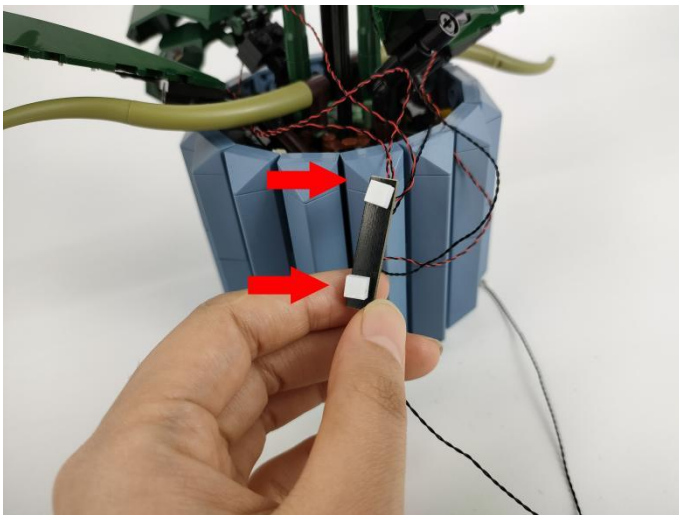
92



93



94

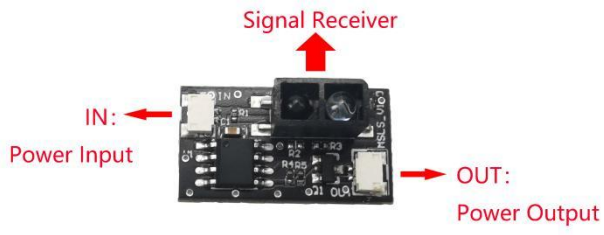


95



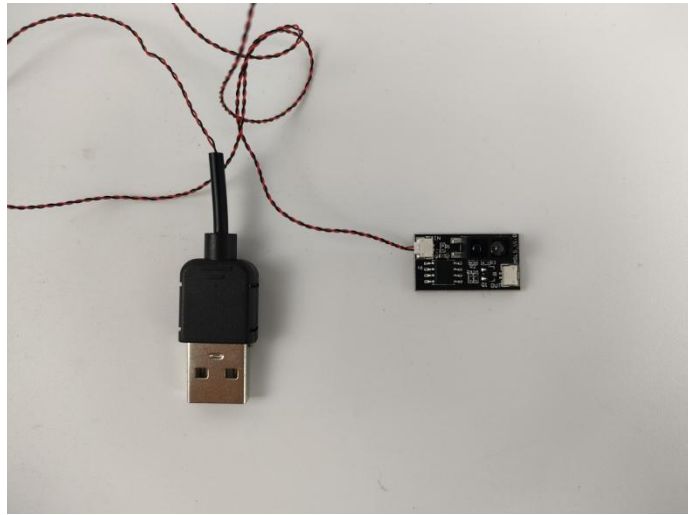
# 96

## Action Control Module

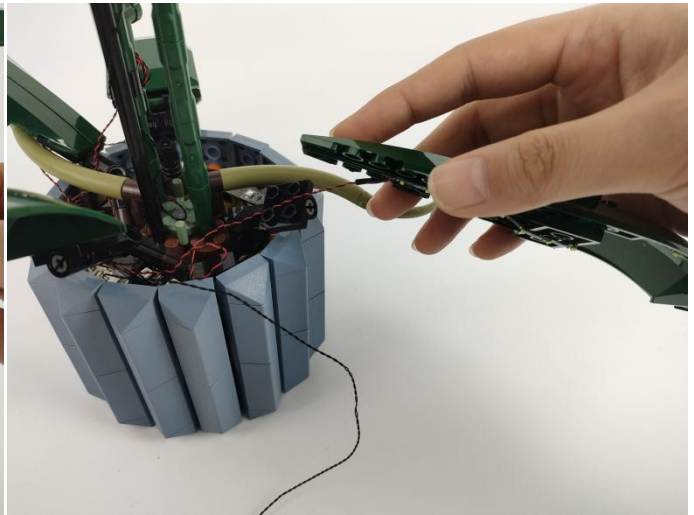
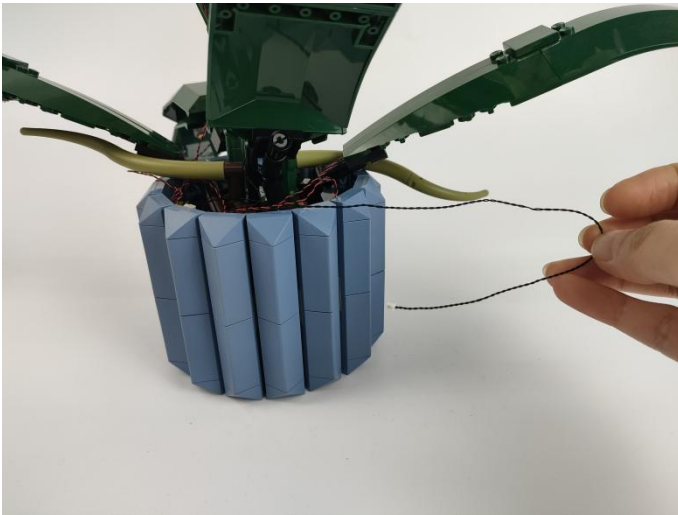


When the obstruction generate a reflected signal, the corresponding module can be turned on or off.

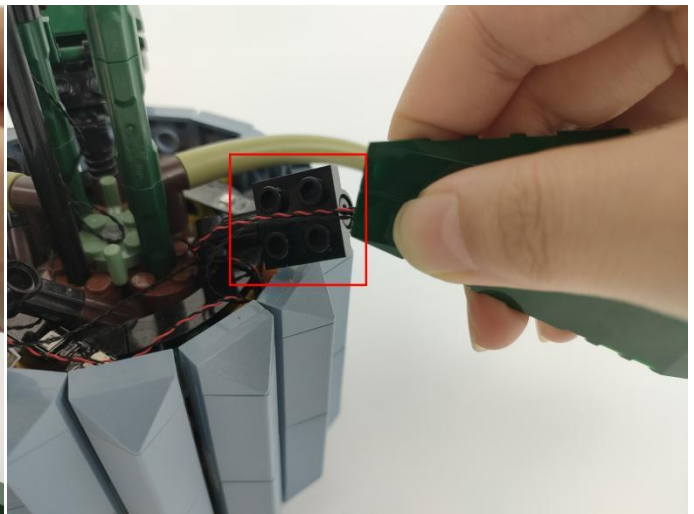
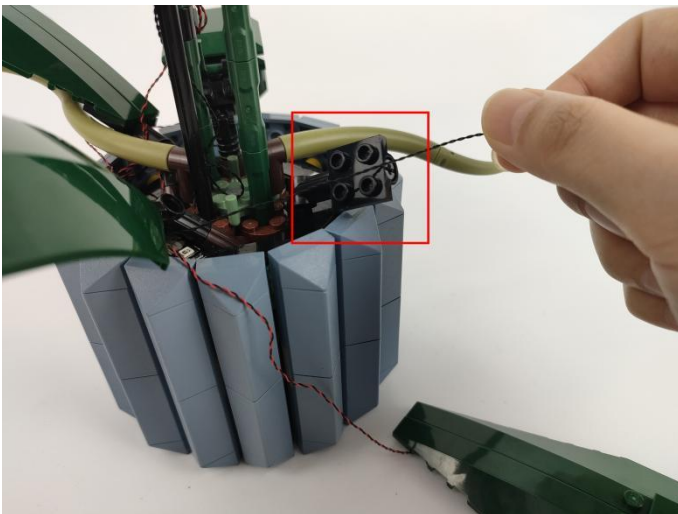
- TIPS:
1. The range of signal reception within 10cm of the vertical "signal receiver".
  2. The frequency of objects passing through the "signal receiver" cannot be too high or the uncontrollable situations will occur.
  3. The overall module is still working and consuming power even if the module is turned off. please turn off the power on the battery box or power bank If the light no longer be needed. please replace the power supply and try again if the light does not work for a period of time.



# 97

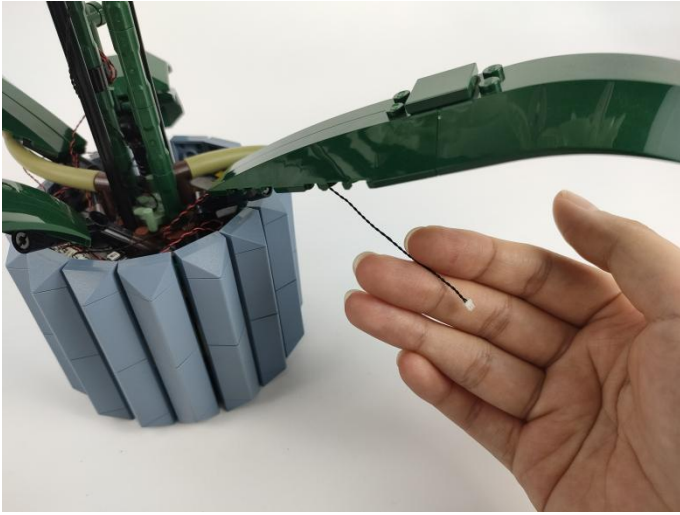


# 98

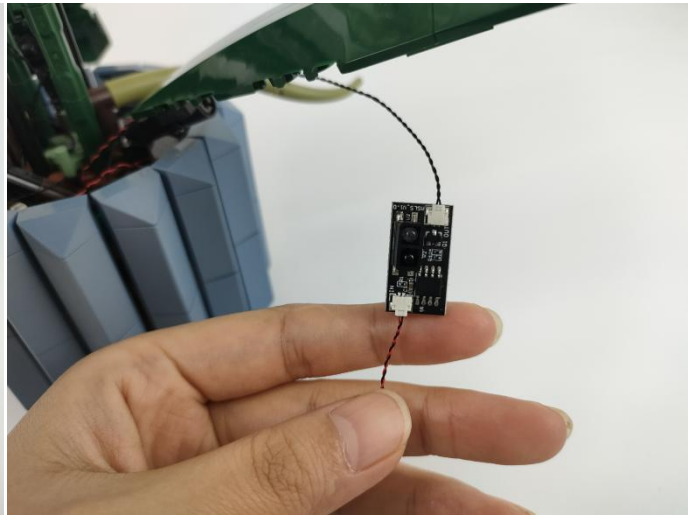
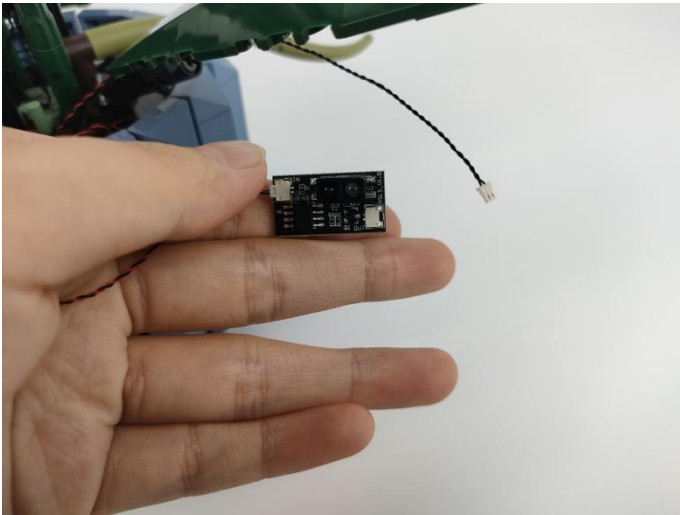




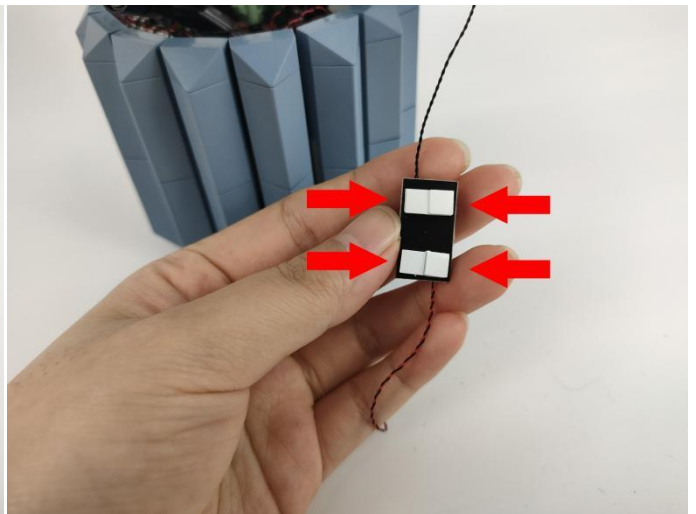
99



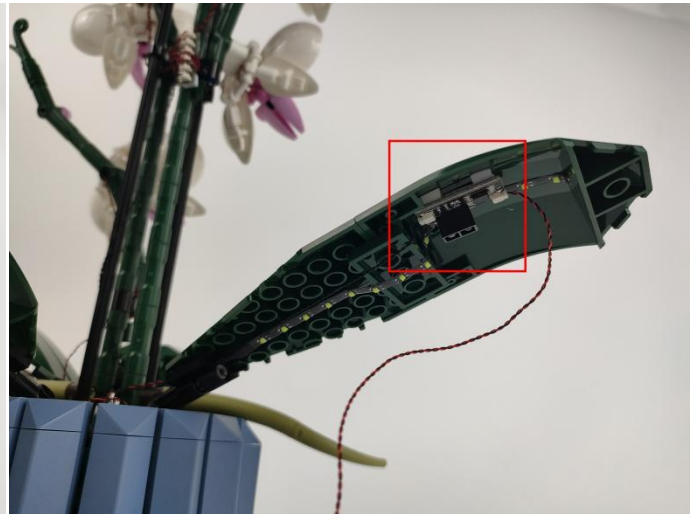
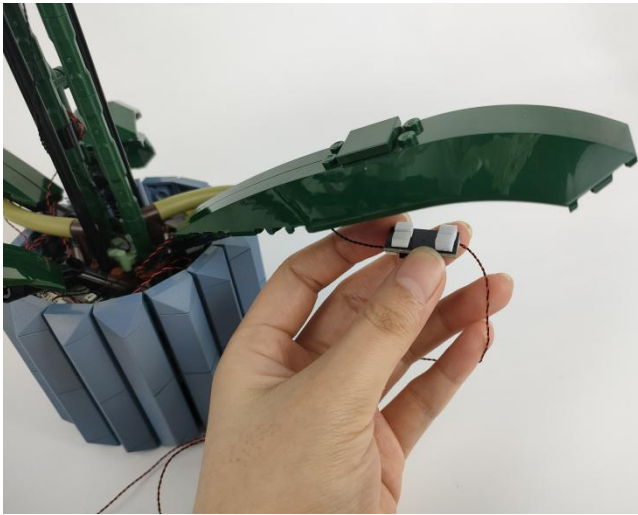
100



101



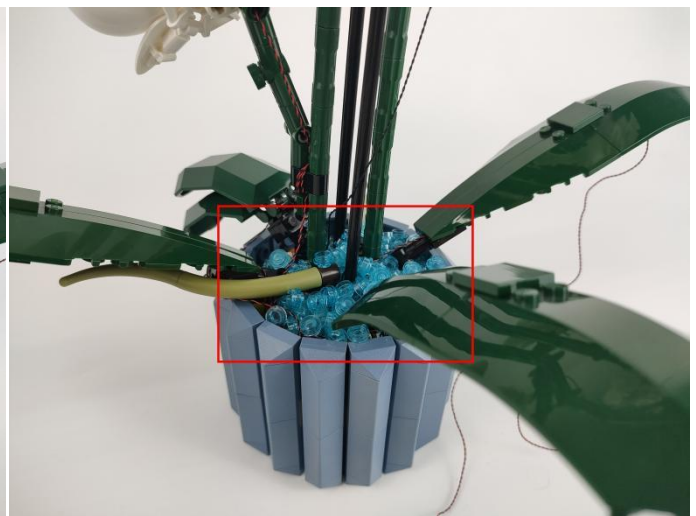
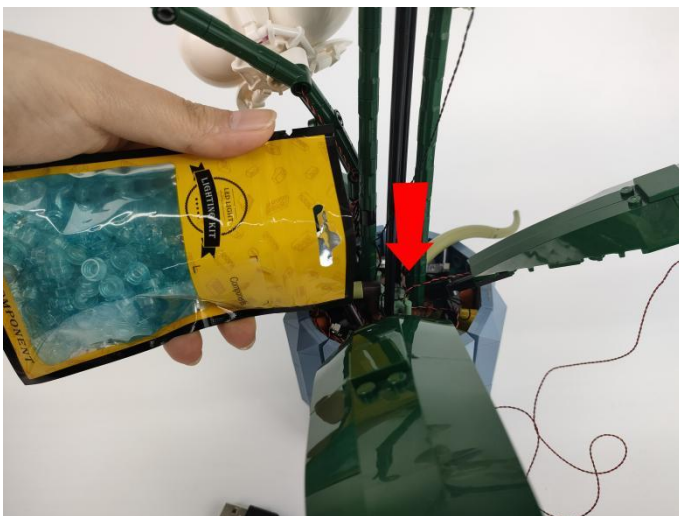
102



103



104



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



**The battery box can also power the set. If it is necessary to change the power supply , prepare three AAA batteries, install them in the battery box, turn on the switch on the battery box, remove the plug of the USB Power Cable from the socket of the expansion board,plug the plug of the battery box to the same socket in the expansion board to power the suit as well.**

**THANKS**