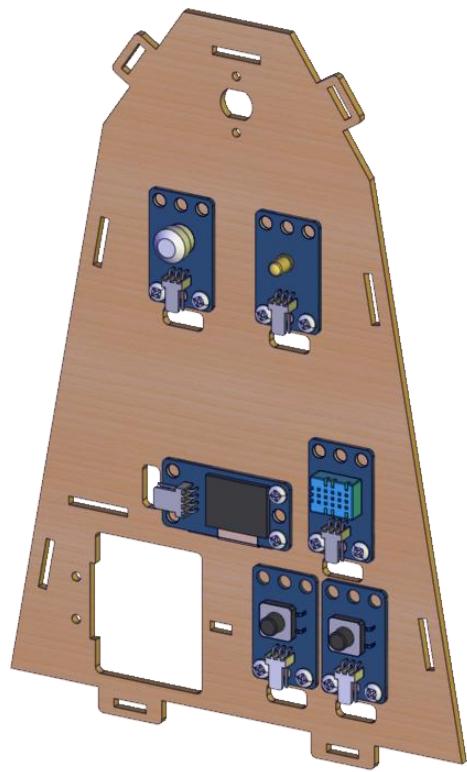


# Dutch windmill installation steps

Installation requires patience and care, do not worry, easy to damage the parts.

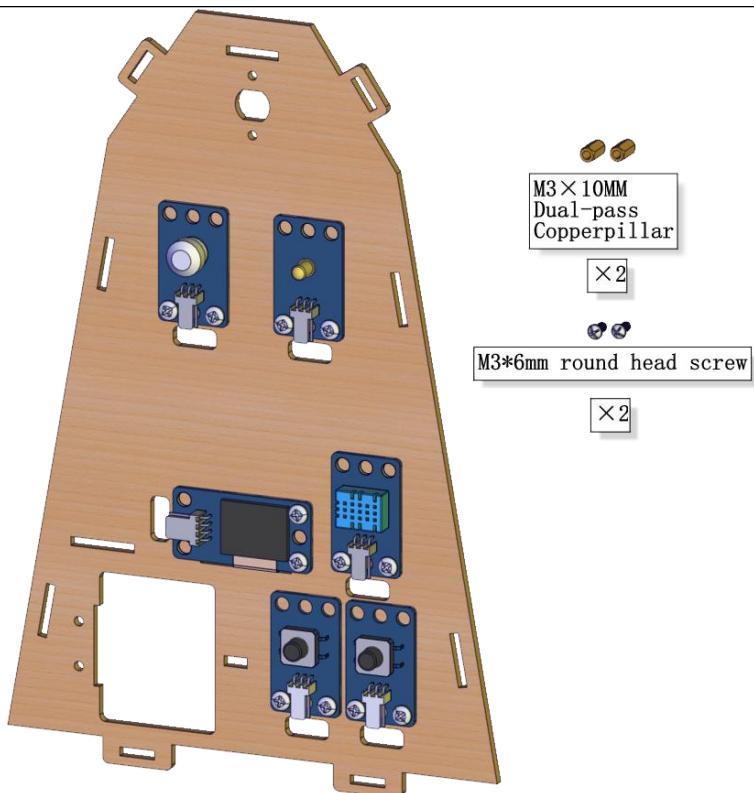
Installation 1	
Installation of required parts	A diagram showing the required parts for the Dutch windmill. It includes a wooden base plate, a yellow LED module (x1), human pyroelectric sensors (x1), sensirion (x1), button (x2), OLED module (x1), M4*8mm round head screw (x12), and M4 nut (x12).
Install	A diagram showing the assembly of the Dutch windmill. A wooden base plate is shown with various electronic components (OLED module, buttons, sensors) attached. Dashed lines indicate the placement of M4*8mm round head screws and M4 nuts into pre-drilled holes on the base plate to secure the components.

complete

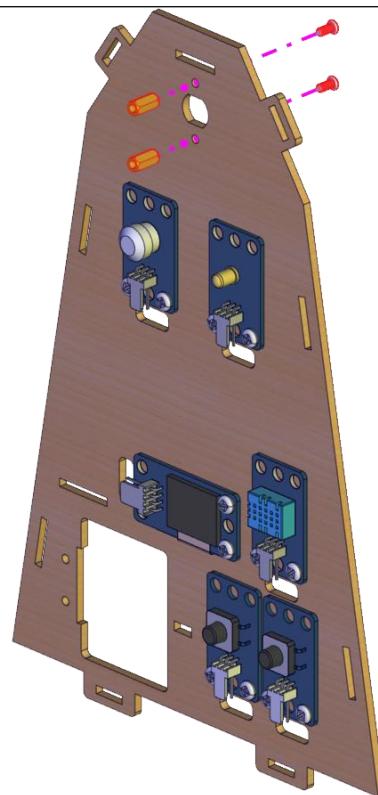


## Installation 2

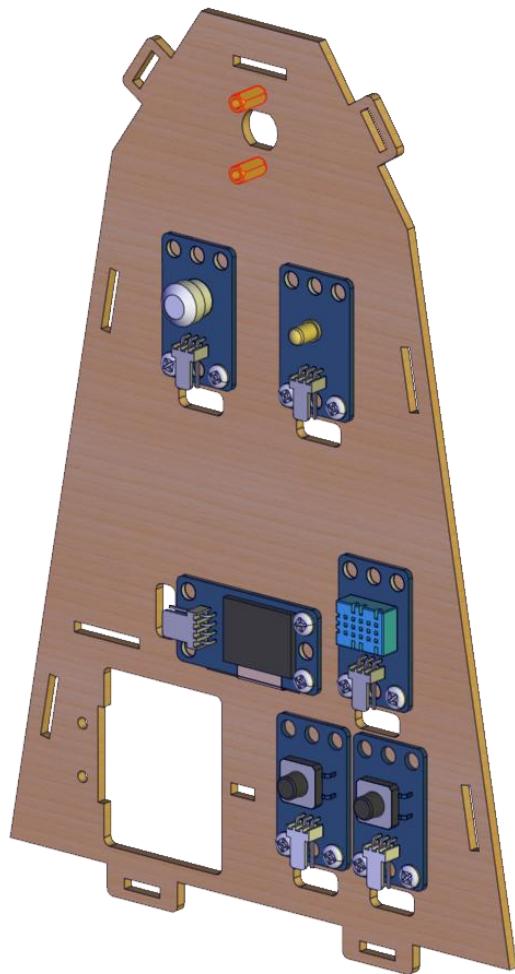
Installation  
of  
required  
parts



Install

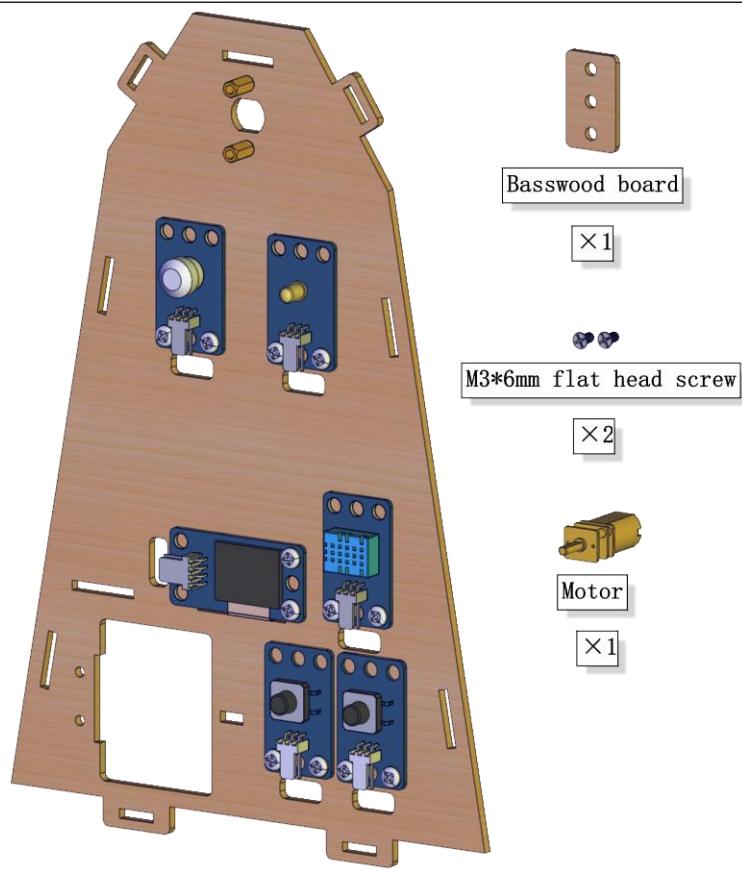


complete

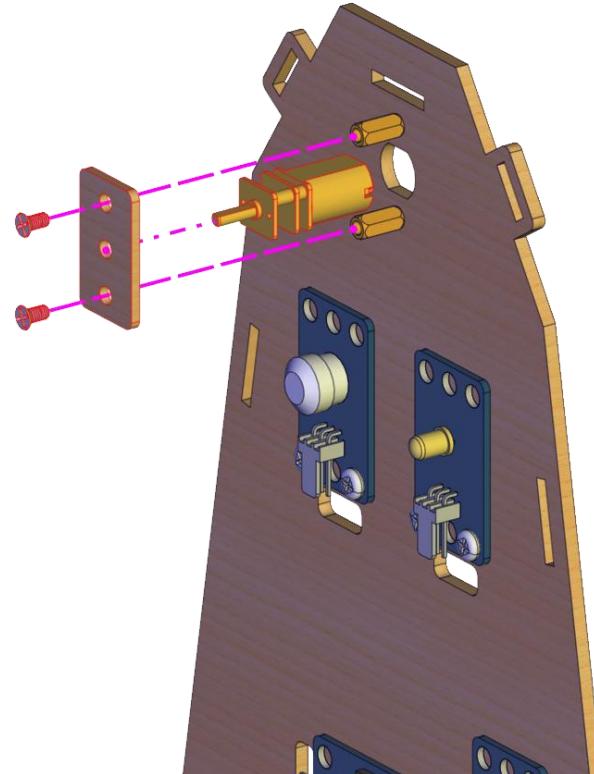


# Installation 3

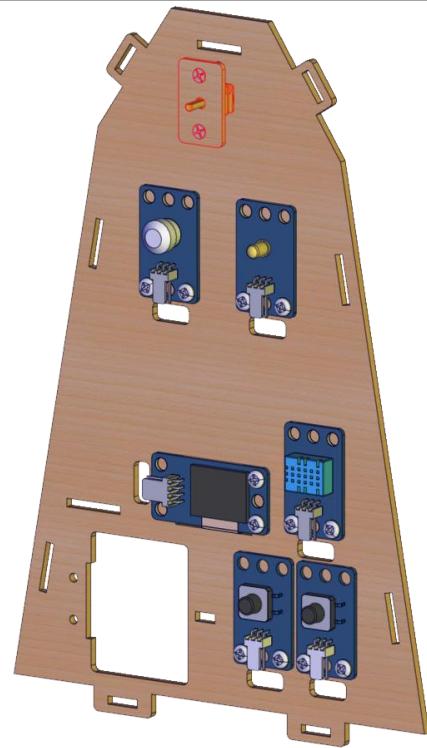
Installation of required parts



Install

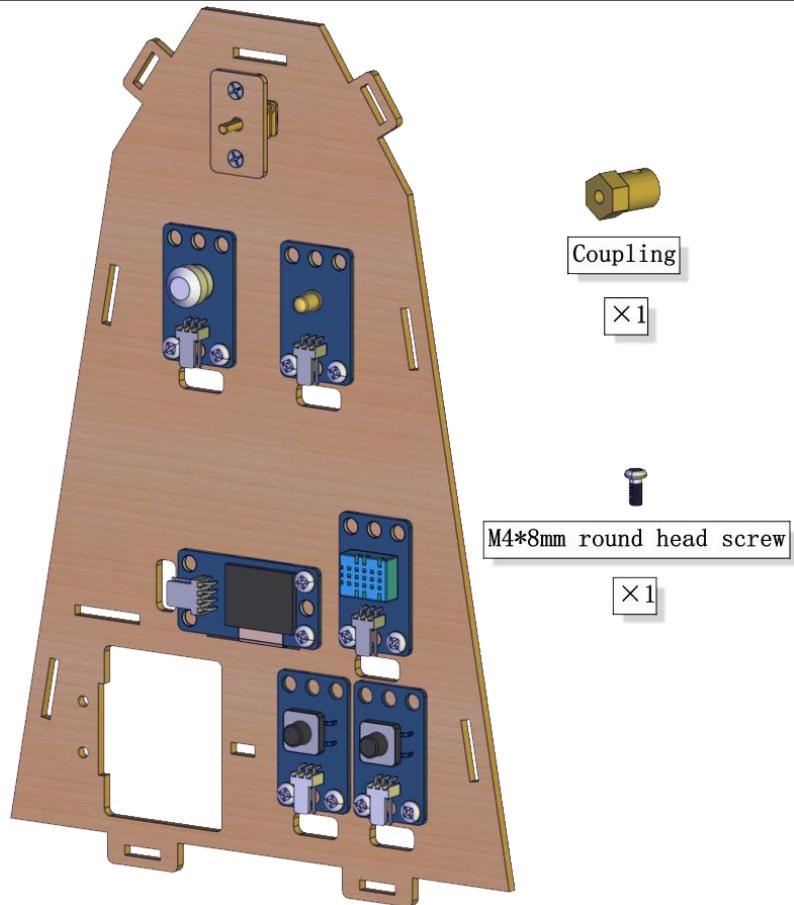


complete



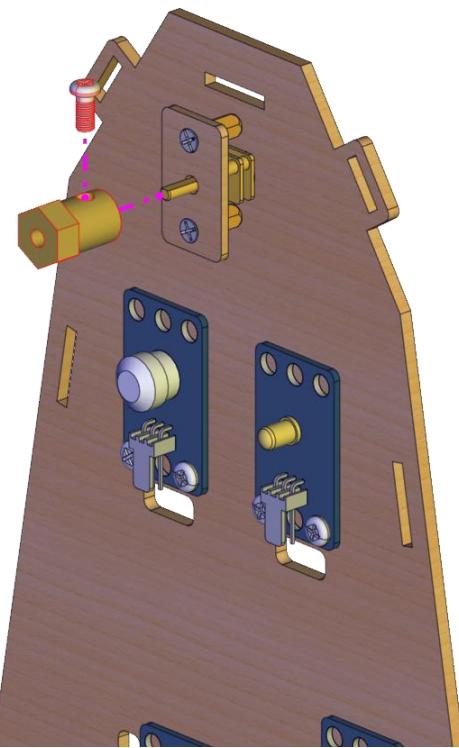
## Installation 4

Installation of required parts

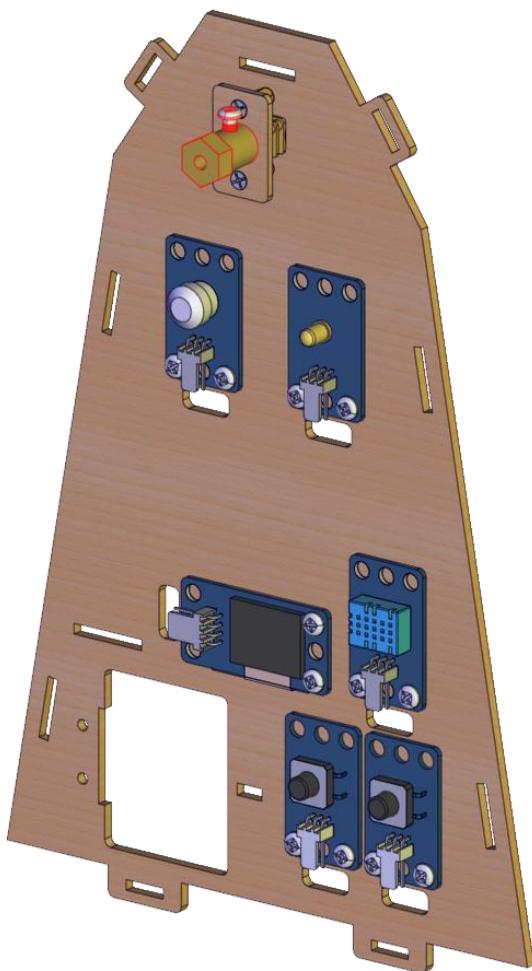


## Install

(Insert the coupling into the output shaft of the motor first, and then tighten the screw)

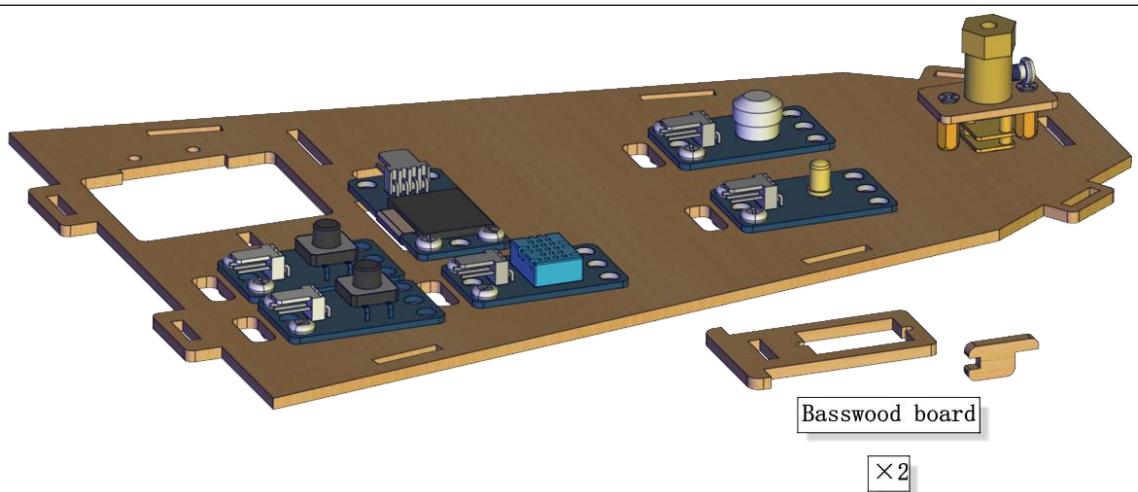


complete

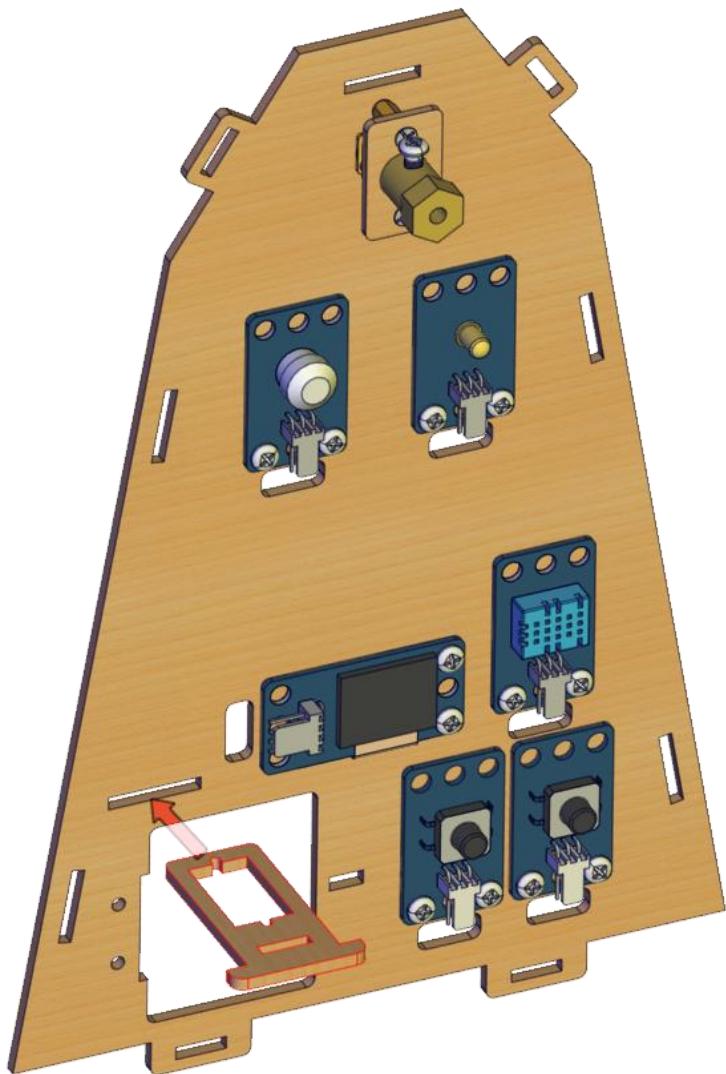


# Installation 5

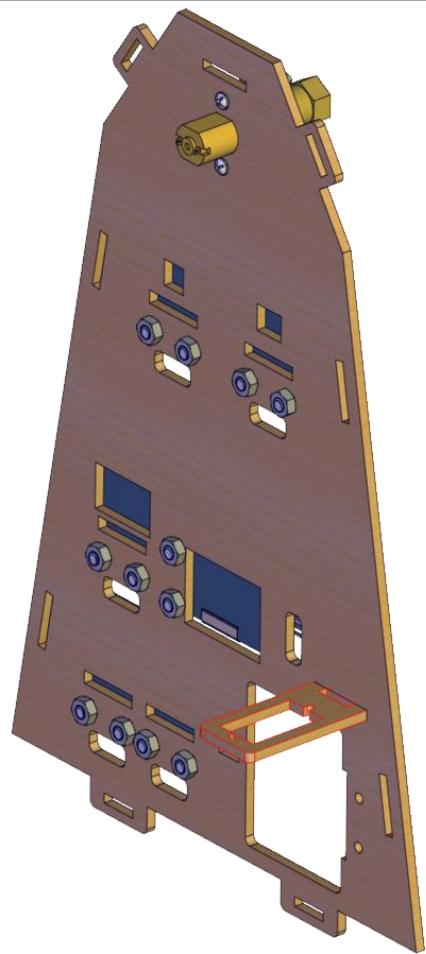
Installation  
on of  
required  
parts



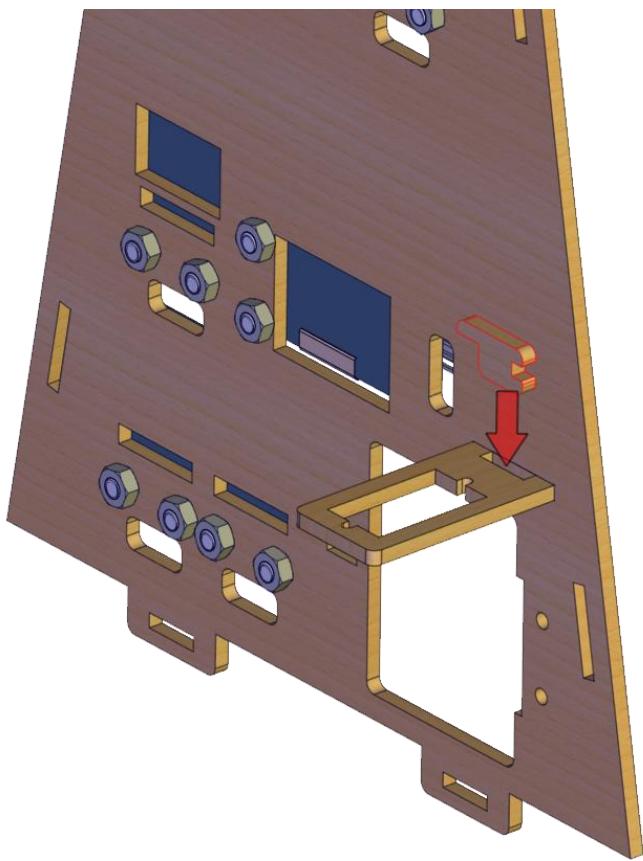
Step 1



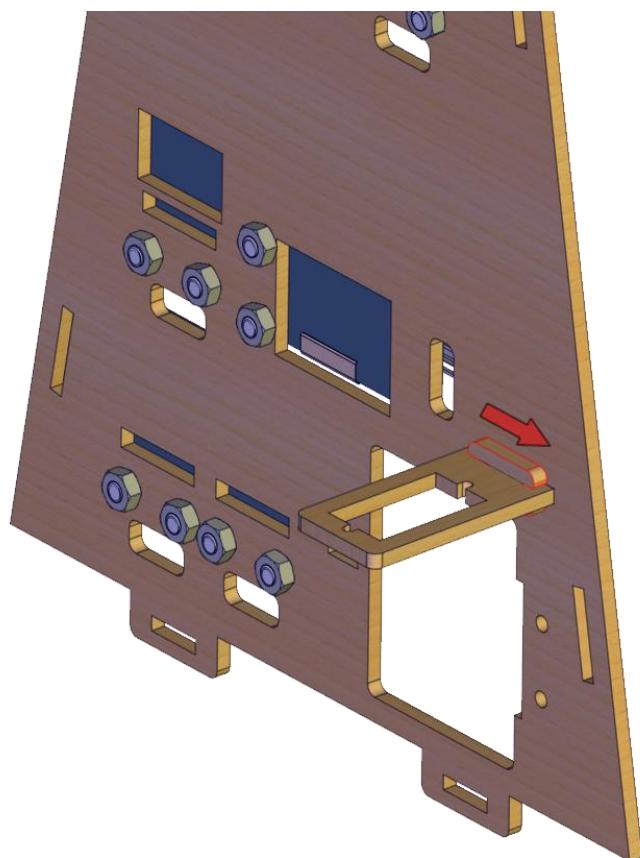
**Step 1**  
complete



**Step 2**

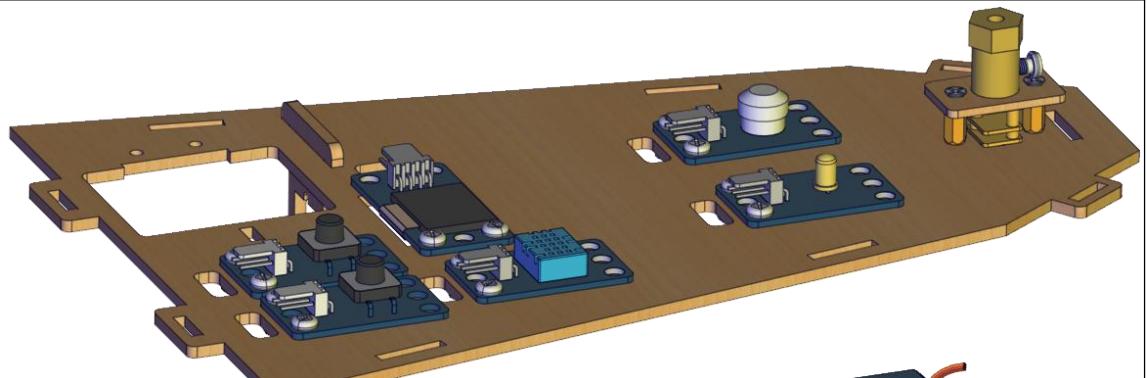


complete



## Installation 6

Installation  
of  
required  
parts



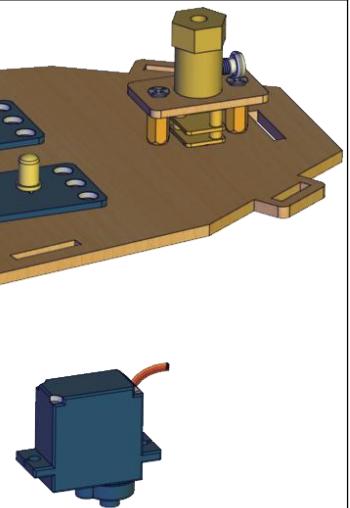
M2\*8mm round head screw

×2



M2 nut

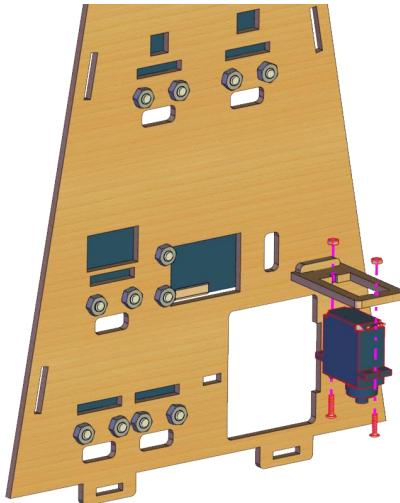
×2



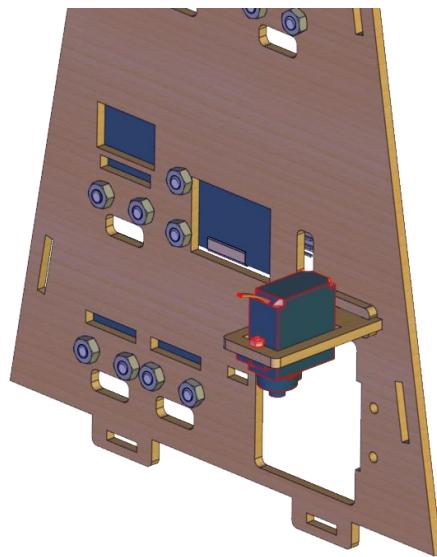
steering engine

×1

Install

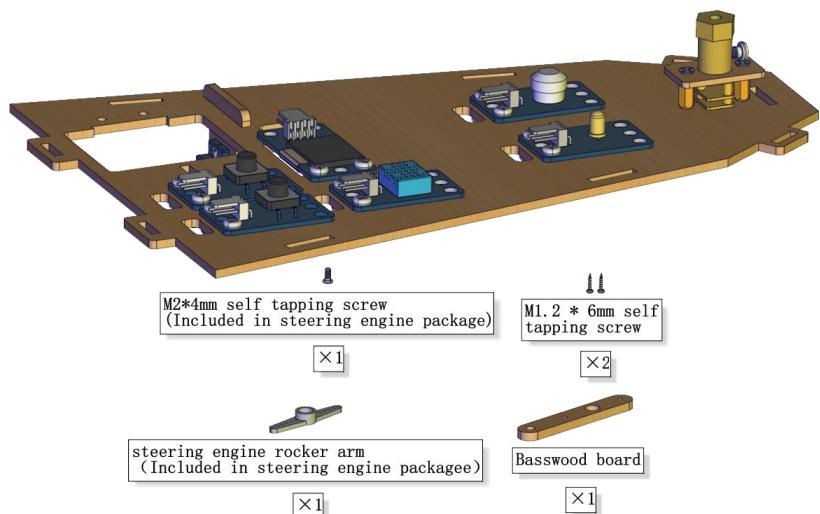


complete



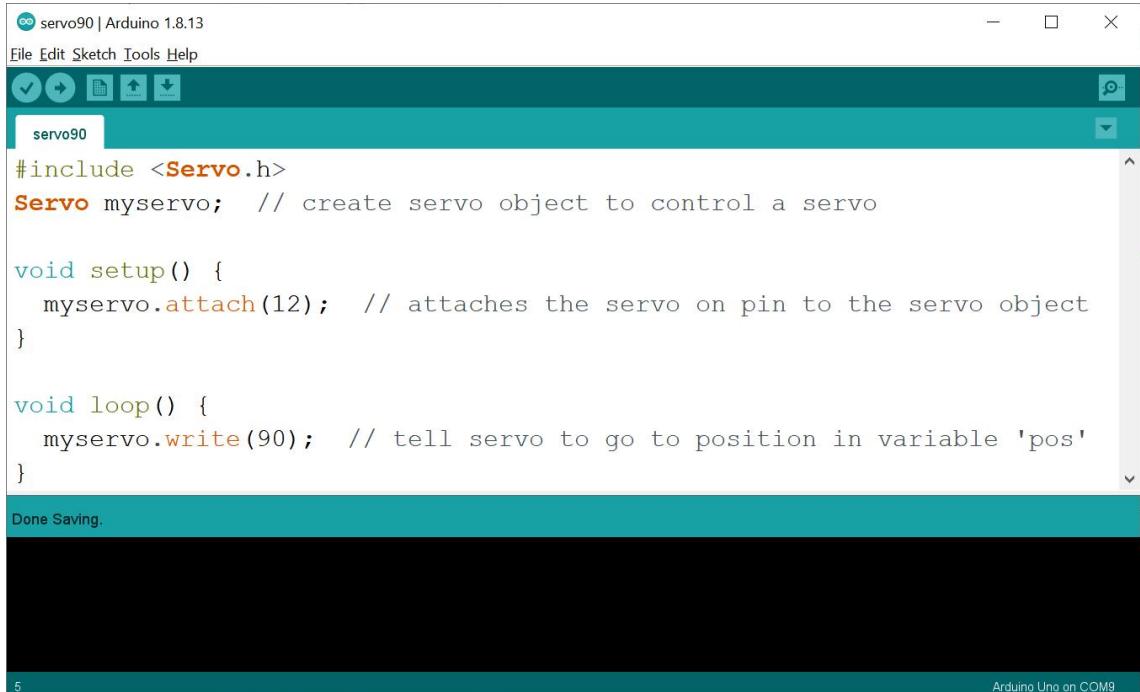
## Installation 7

Installation  
of  
required  
parts



Write code before installation, and adjust the steering gear to 90 °

Connect the arduino UNO to your computer with a data cable, edit the following code in the arduino IDE, and click Upload code.



The screenshot shows the Arduino IDE interface with the title bar "servo90 | Arduino 1.8.13". The menu bar includes File, Edit, Sketch, Tools, and Help. Below the menu is a toolbar with icons for new, open, save, and upload. The main code editor window contains the following code:

```
#include <Servo.h>
Servo myservo; // create servo object to control a servo

void setup() {
  myservo.attach(12); // attaches the servo on pin to the servo object
}

void loop() {
  myservo.write(90); // tell servo to go to position in variable 'pos'
}
```

A status bar at the bottom indicates "Done Saving." and "5" on the left, and "Arduino Uno on COM9" on the right.

You can directly copy the following code:

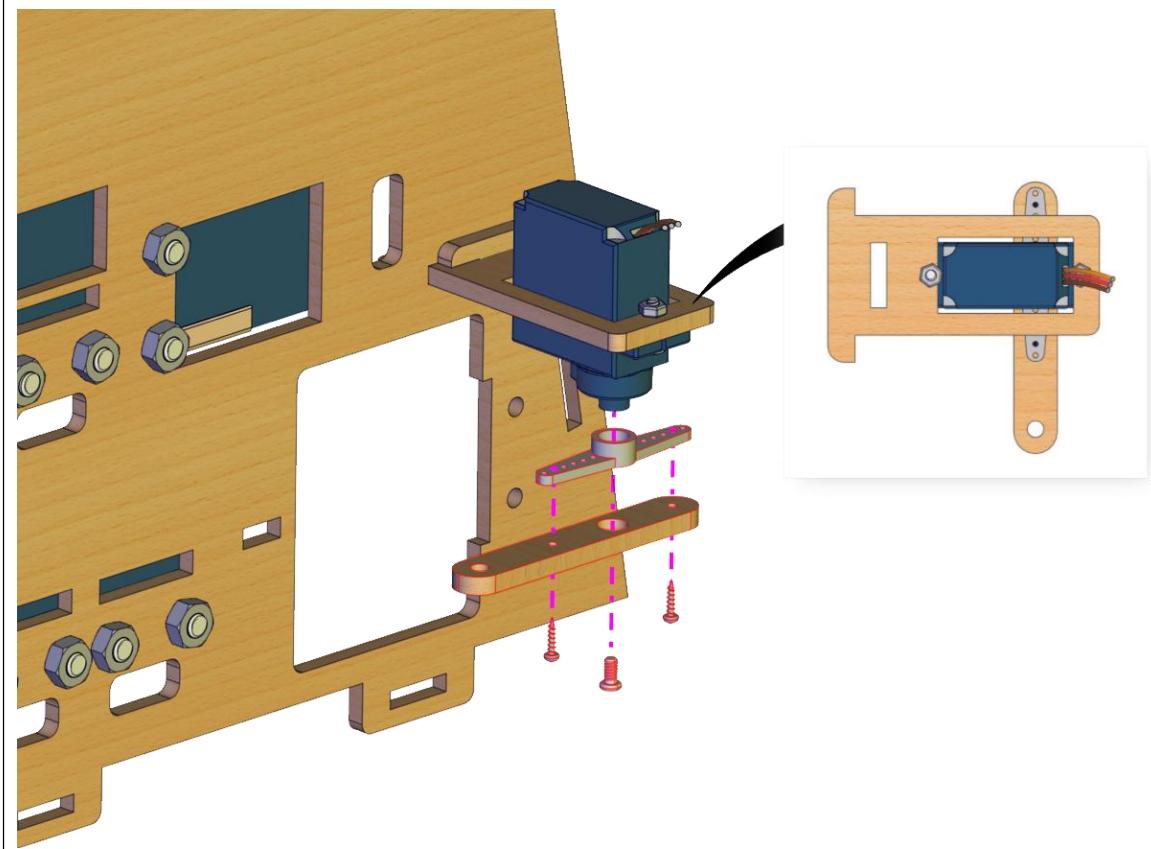
```
#include <Servo.h>
Servo myservo; // create servo object to control a servo

void setup() {
  myservo.attach(9); // attaches the servo on pin 9 to the servo object
}

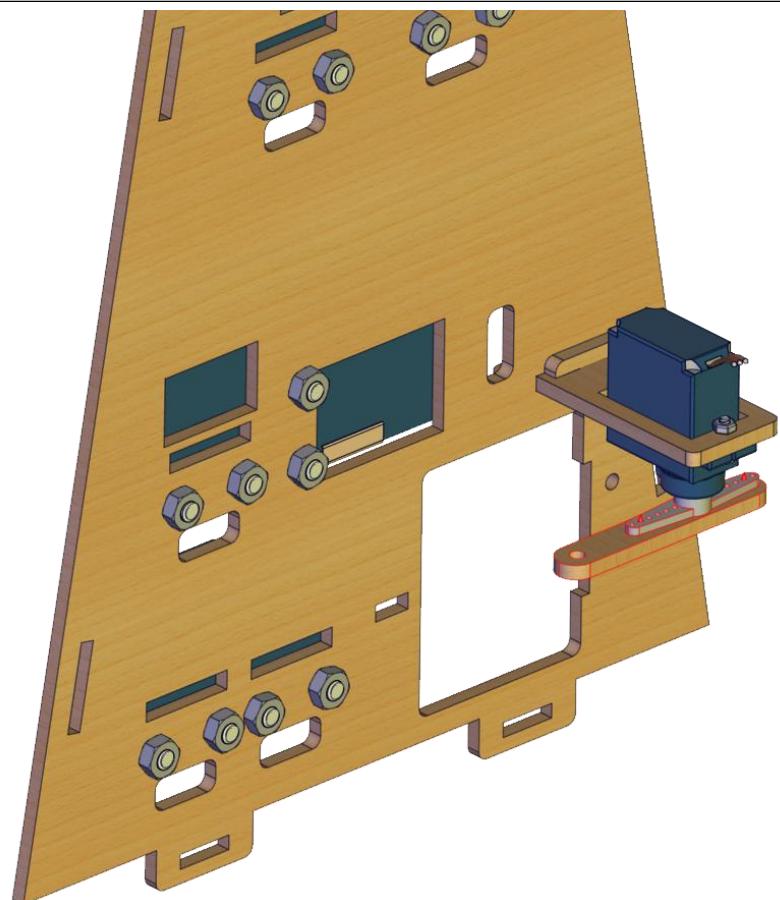
void loop() {
  myservo.write(90); // tell servo to go to position
}
```

## Install

(Note that  
the  
installation  
Angle should  
be the same  
as in the  
figure)



complete



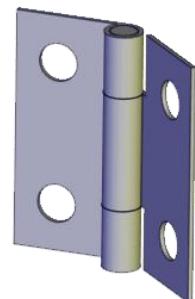
# Installation 8

Installation  
on of  
required  
parts



Basswood board

×1



Hinge

×1



M3\*6mm round head screw

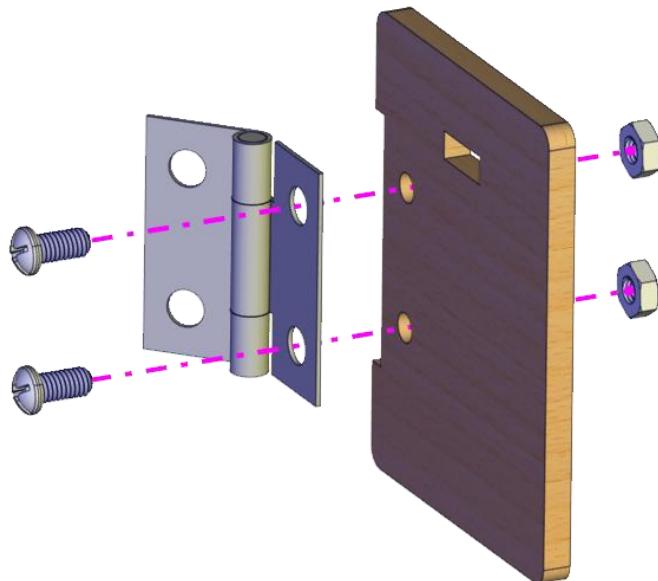
×2



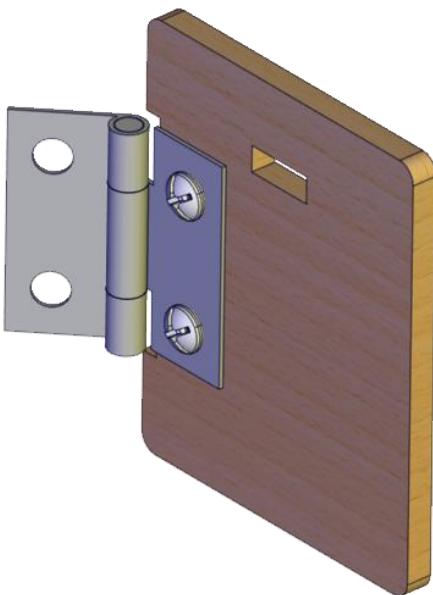
M3 nut

×2

Install

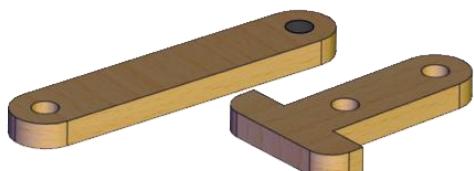
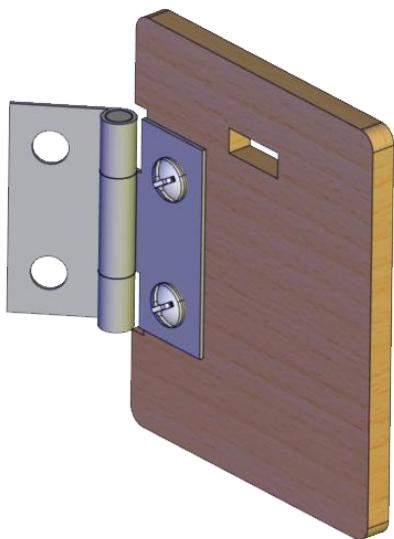


complete



## Installation 9

Installation  
on of  
required  
parts



Basswood board

x2



M3 nut

x1



M3 self-locking nut

x1



M3\*6mm round head screw

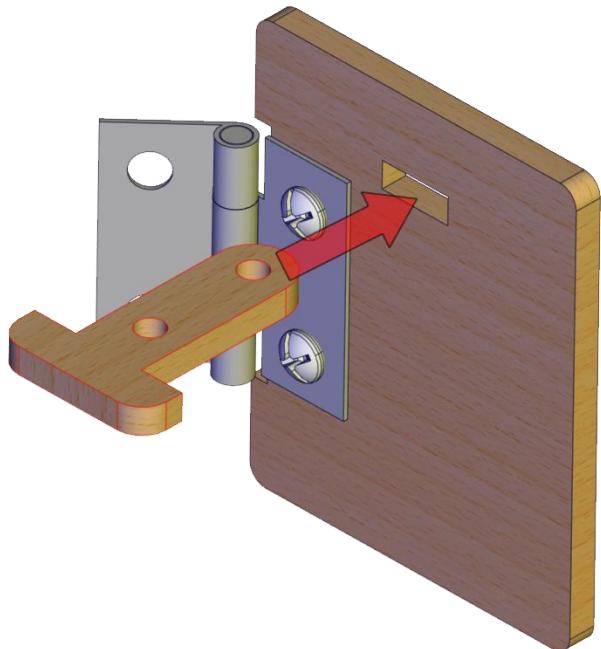
x1



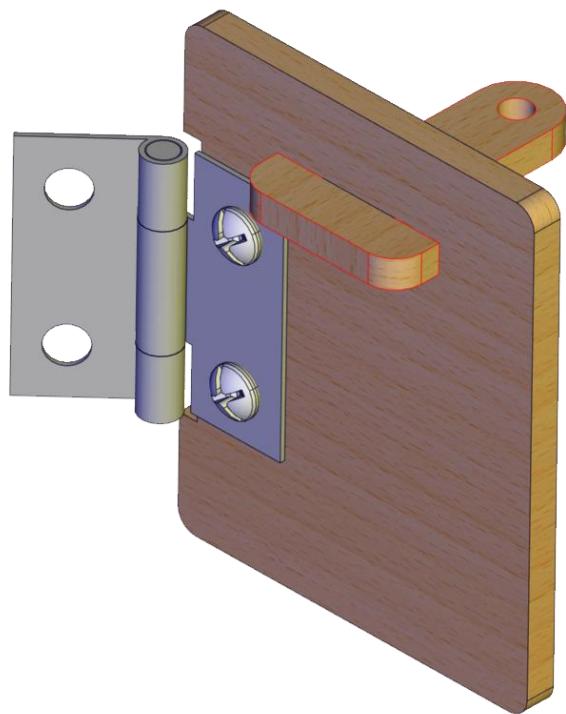
M3\*12mm half tooth screw

x1

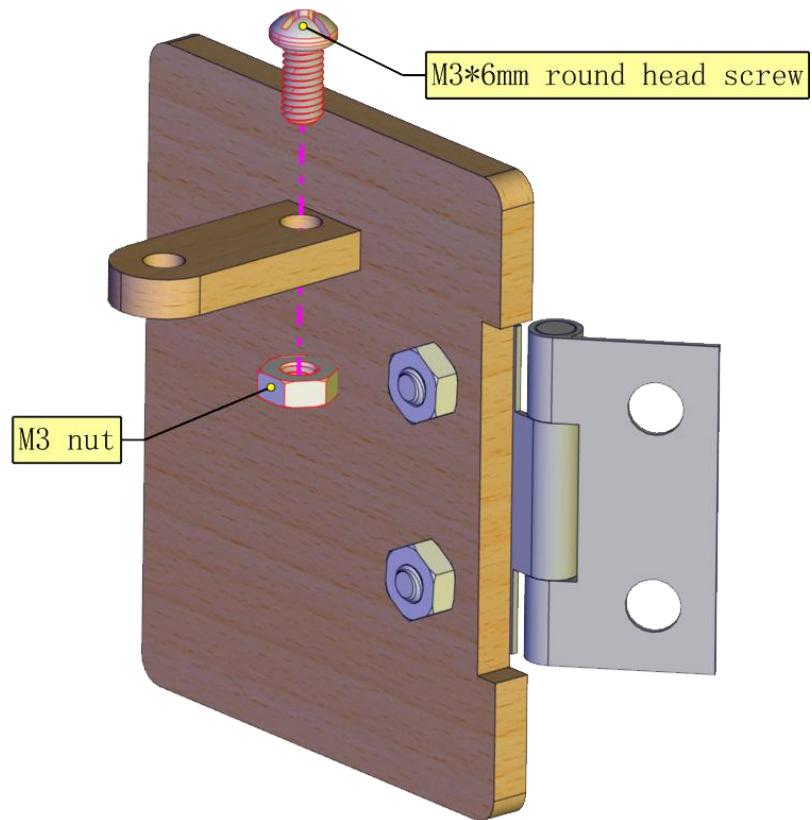
Step 1



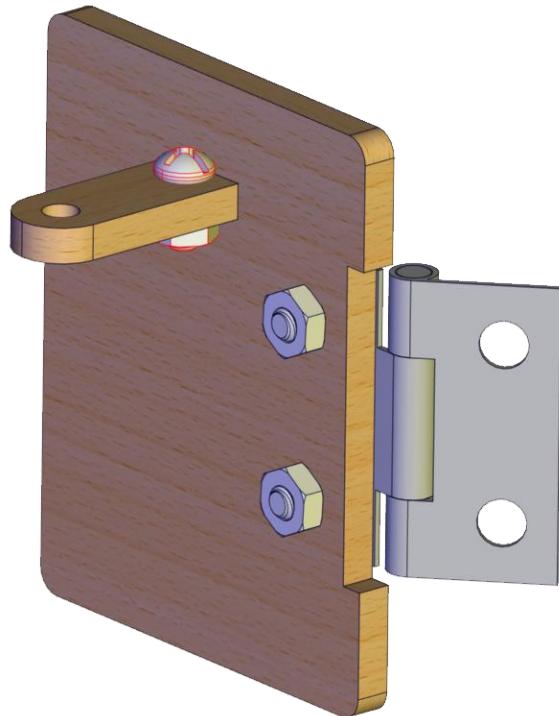
Step 1  
complete



**Step 2**

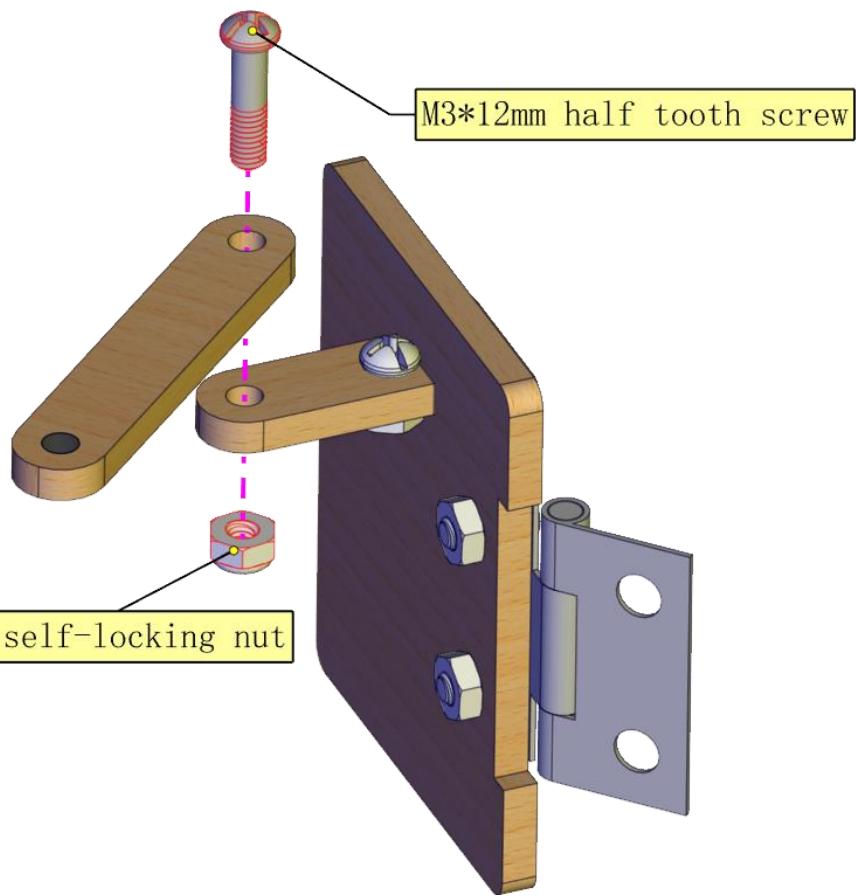


**Step 2**  
complete

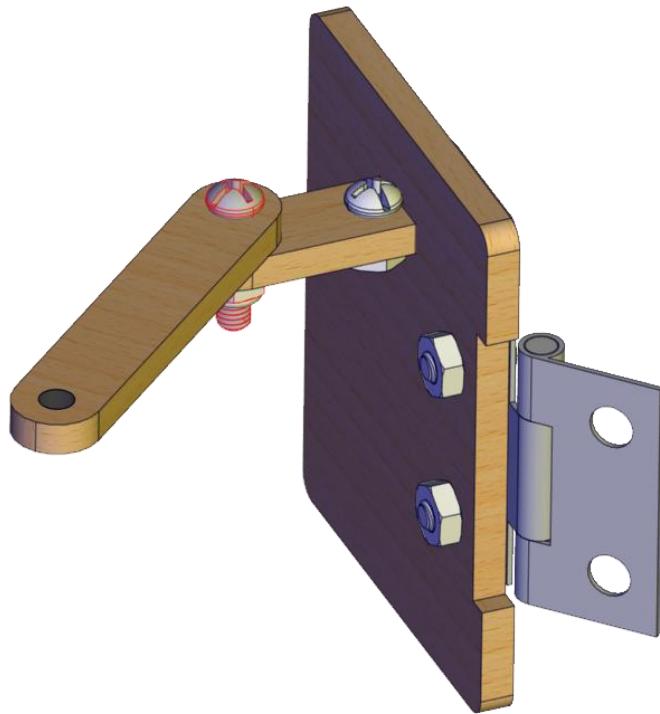


### Step 3

(Note that  
the  
self-locking  
nut cannot  
be locked)

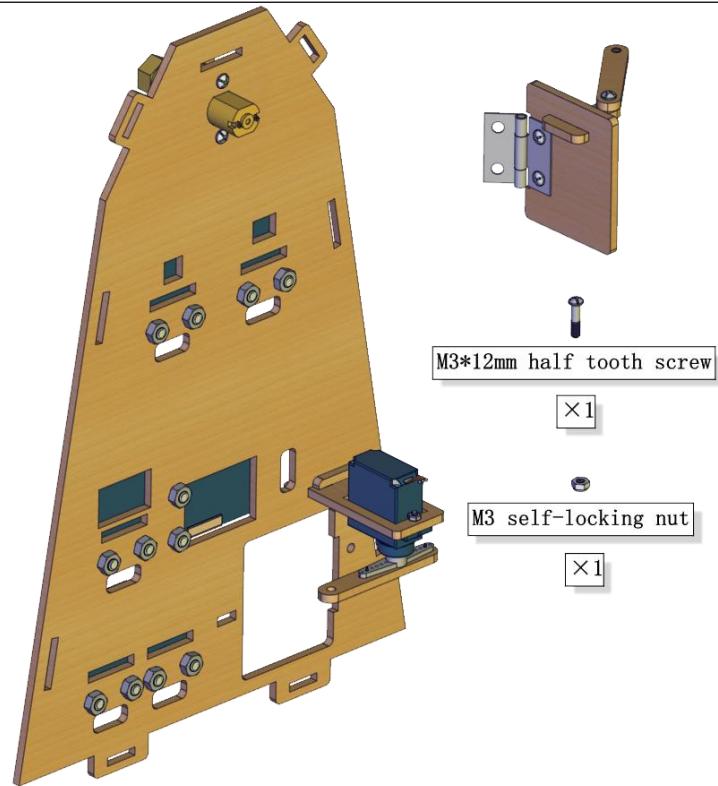


complete

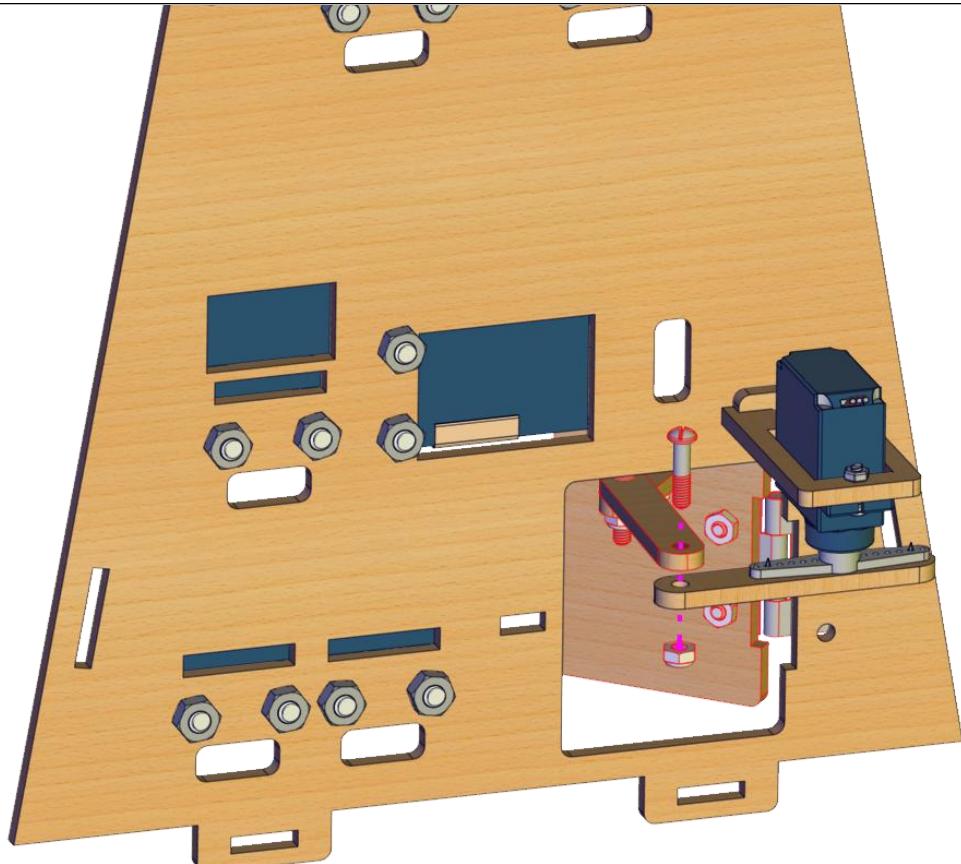


# Installation 10

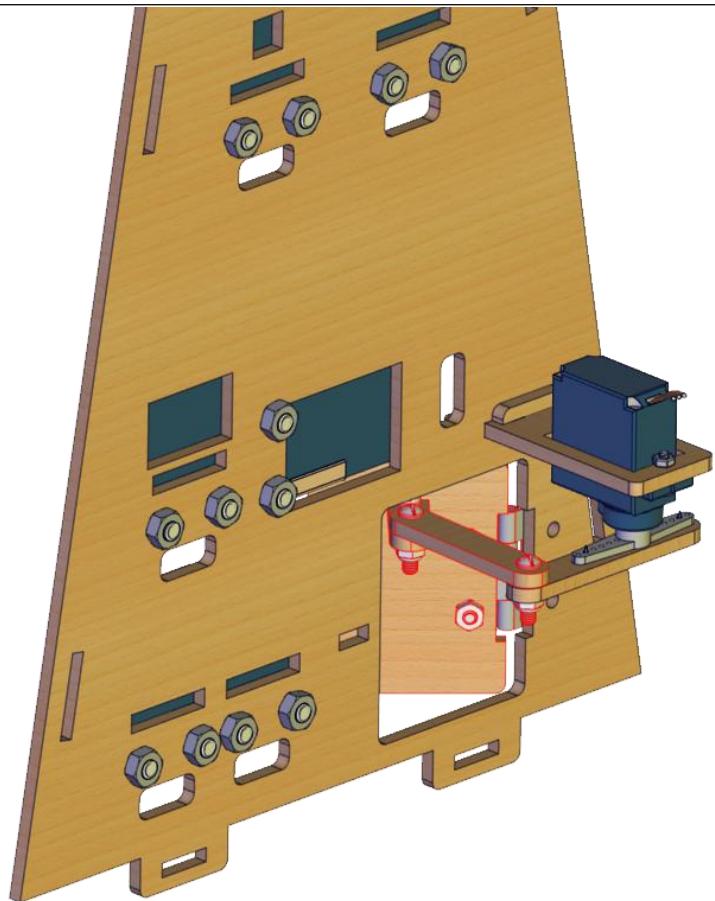
Installation  
on of  
required  
parts



Install  
(Note that  
the  
self-locking  
nut cannot  
be locked)

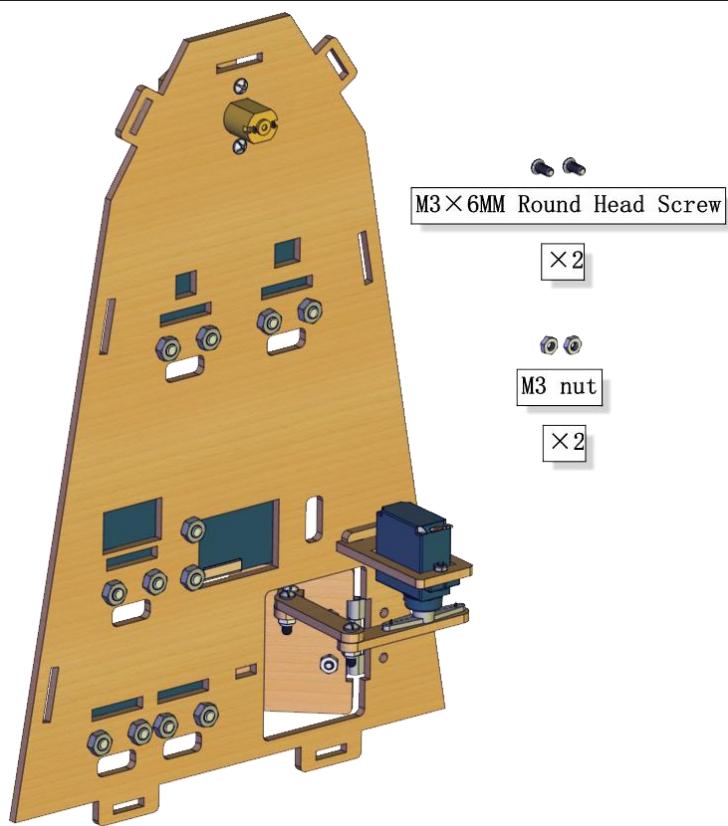


complete

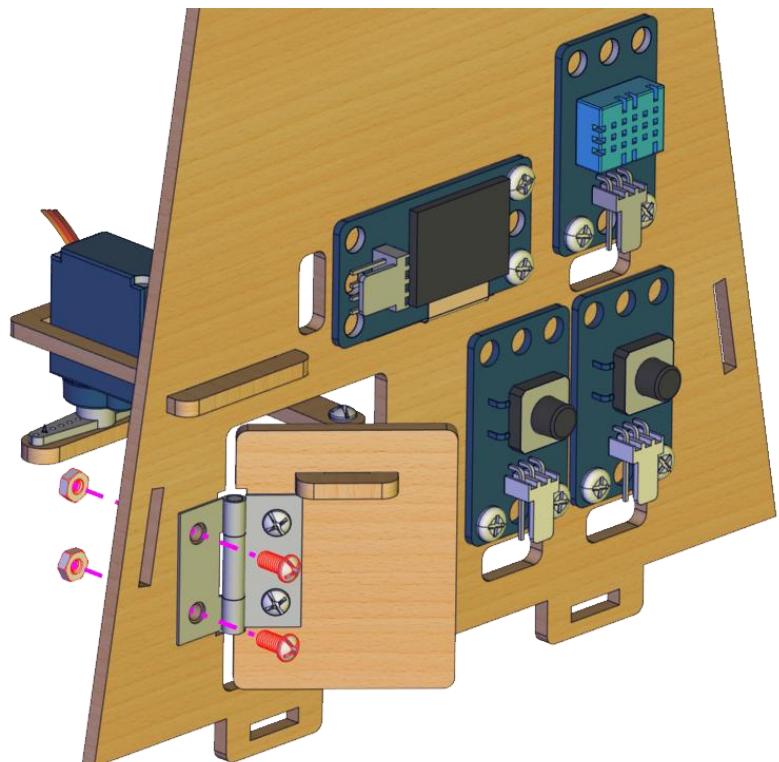


# Installation 11

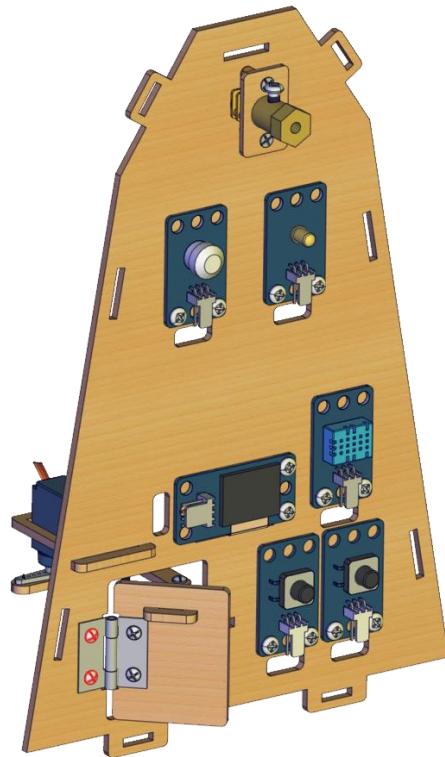
Installation of required parts



Install

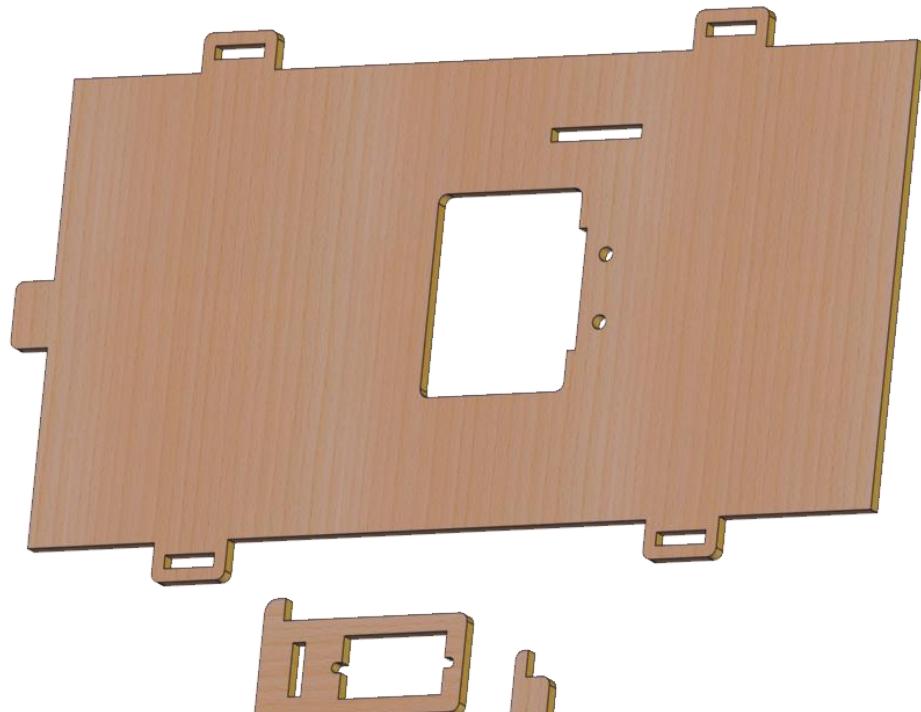


complete



## Installation 12

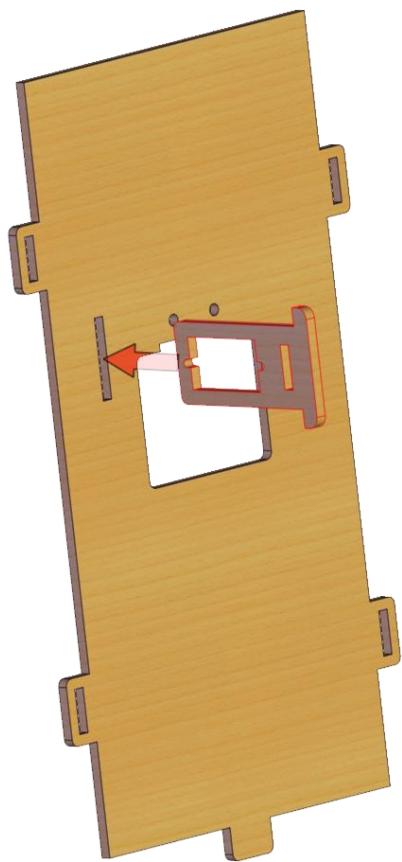
Installation  
of  
required  
parts



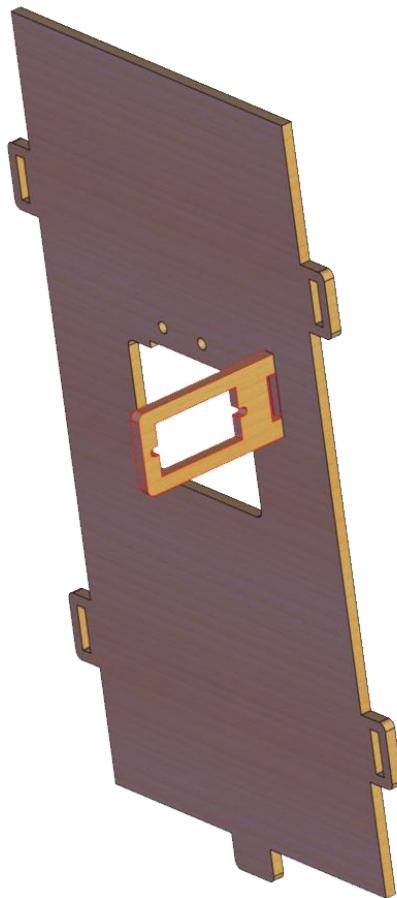
Basswood board

× 3

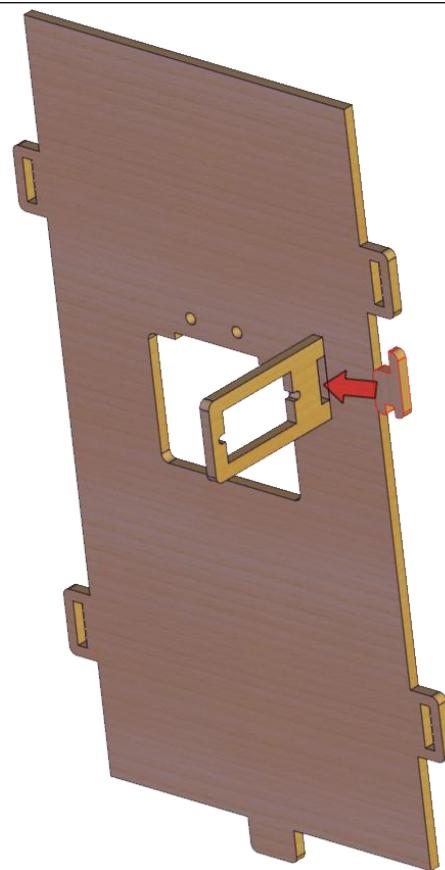
Step 1



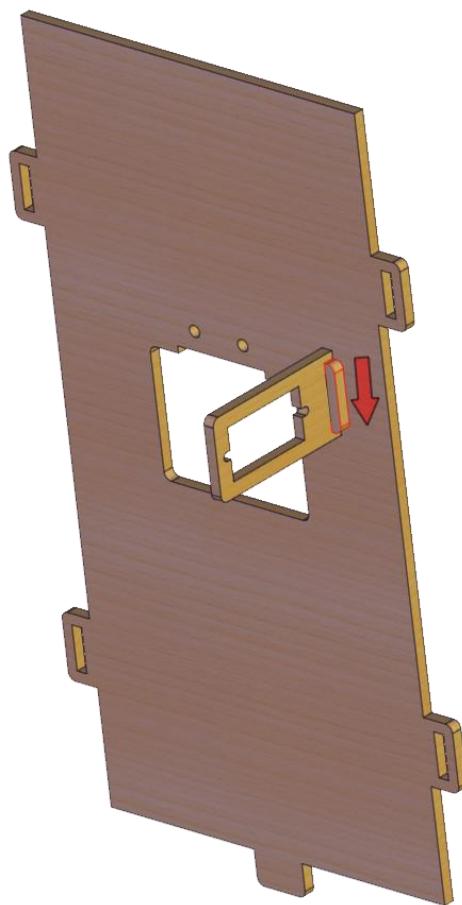
Step 1  
complete



Step 2

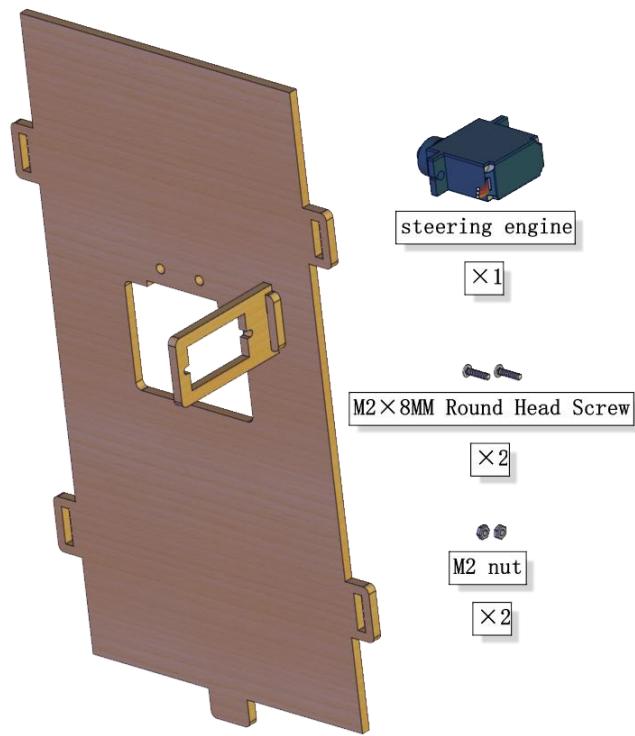


complete

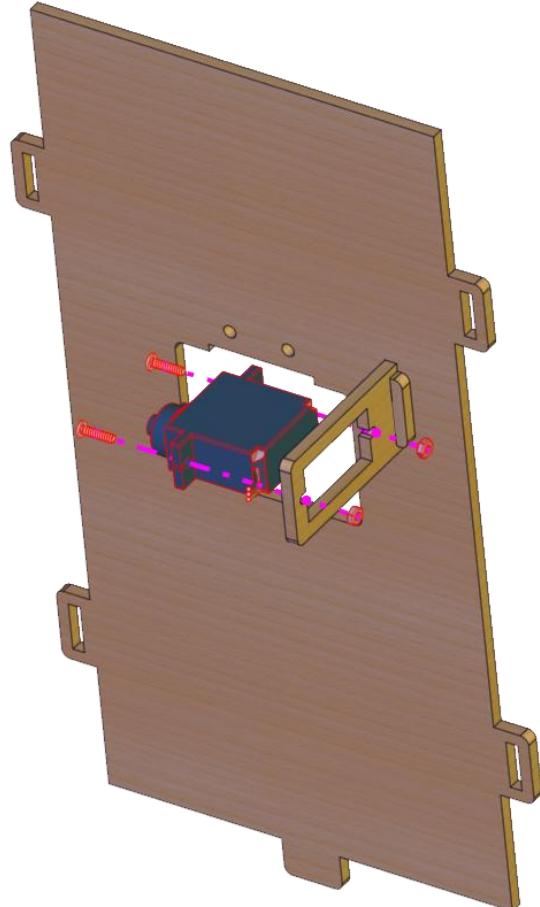


# Installation 13

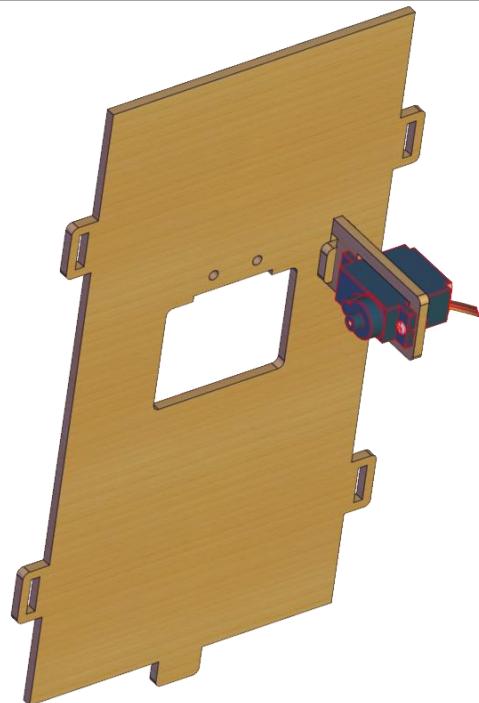
Installation  
on of  
required  
parts



Install

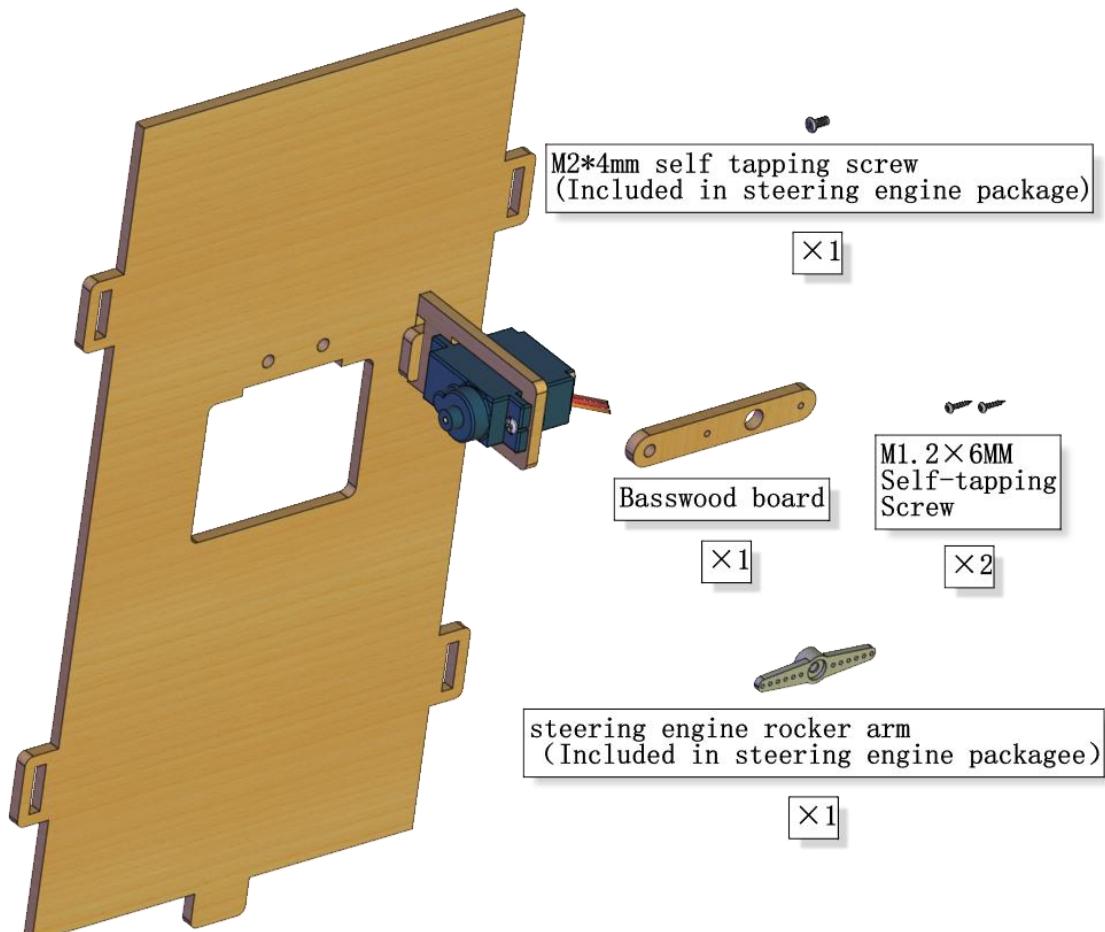


complete



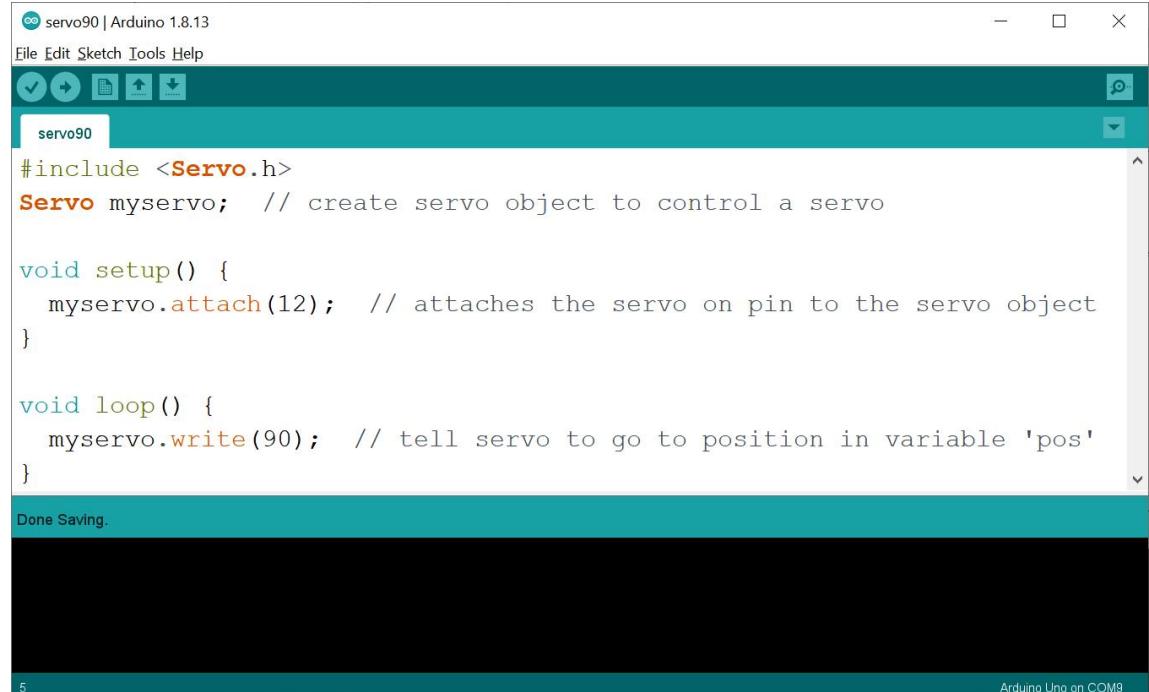
## Installation 14

Installation of required parts



Write code before installation, and adjust the steering gear to 90 °

Connect the arduino UNO to your computer with a data cable, edit the following code in the arduino IDE, and click Upload code.



The screenshot shows the Arduino IDE interface with the following details:

- Sketch name: servo90
- IDE version: Arduino 1.8.13
- File menu: File Edit Sketch Tools Help
- Toolbar icons: Save, Run, Stop, Reload, Open, Upload, Download, Print, Find, Find Next, Find Previous, Find All, Find and Replace, Find and Replace Next, Find and Replace Previous, Find and Replace All, Find and Replace All Next, Find and Replace All Previous, Find and Replace All All, Find and Replace All All Next, Find and Replace All All Previous, Find and Replace All All All, Find and Replace All All All Next, Find and Replace All All All Previous, Find and Replace All All All All, Find and Replace All All All All Next, Find and Replace All All All All Previous, Find and Replace All All All All All, Find and Replace All All All All All Next, Find and Replace All All All All All Previous, Find and Replace All All All All All All, Find and Replace All All All All All All Next, Find and Replace All All All All All All Previous, Find and Replace All All All All All All All, Find and Replace All All All All All All All Next, Find and Replace All All All All All All All Previous, Find and Replace All All All All All All All All, Find and Replace All All All All All All All All Next, Find and Replace All All All All All All All All Previous, Find and Replace All All All All All All All All All, Find and Replace All All All All All All All All All Next, Find and Replace All All All All All All All All All Previous, Find and Replace All All All All All All All All All All, Find and Replace All Next, Find and Replace All Previous, Find and Replace All All, Find and Replace All Next, Find and Replace All Previous, Find and Replace All All, Find and Replace All Next, Find and Replace All Previous, Find and Replace All All, Find and Replace All Next, Find and Replace All Previous, Find and Replace All All, Find and Replace All Next, Find and Replace All Previous, Find and Replace All All, Find and Replace All Next, Find and Replace All Previous, Find and Replace All All, Find and Replace All Next, Find and Replace All Previous, Find and Replace All All, Find and Replace All Next, Find and Replace All Previous, Find and Replace All All, Find and Replace All Next, Find and Replace All Previous, Find and Replace All All, Find and Replace All Next, Find and Replace All Previous, Find and Replace All All, Find and Replace All Next, Find and Replace All Previous, Find and Replace All All, Find and Replace All Next, Find and Replace All Previous, Find and Replace All All, Find and Replace All Next, Find and Replace All Previous, Find and Replace All All, Find and Replace All Next, Find and Replace All Previous, Find and Replace All All, Find and Replace All Next, Find and Replace All Previous, Find and Replace All All, Find and Replace All Next, Find and Replace All Previous, Find and Replace All All, Find and Replace All Next, Find and Replace All Previous, Find and Replace All All, Done Saving.

```
#include <Servo.h>
Servo myservo; // create servo object to control a servo

void setup() {
  myservo.attach(12); // attaches the servo on pin to the servo object
}

void loop() {
  myservo.write(90); // tell servo to go to position in variable 'pos'
}
```

You can directly copy the following code:

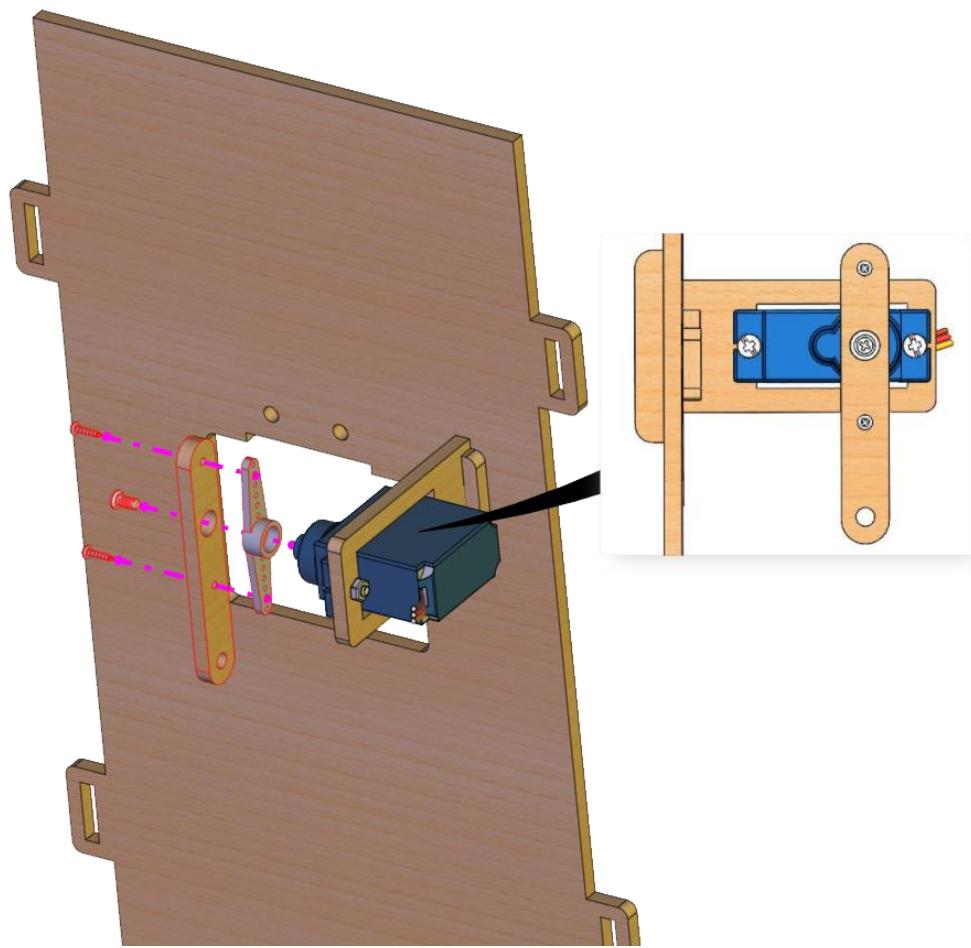
```
#include <Servo.h>
Servo myservo; // create servo object to control a servo

void setup() {
  myservo.attach(10); // attaches the servo on pin 10 to the servo object
}

void loop() {
  myservo.write(90); // tell servo to go to position
}
```

## Install

(Note that  
the  
installation  
Angle should  
be the same  
as in the  
figure)

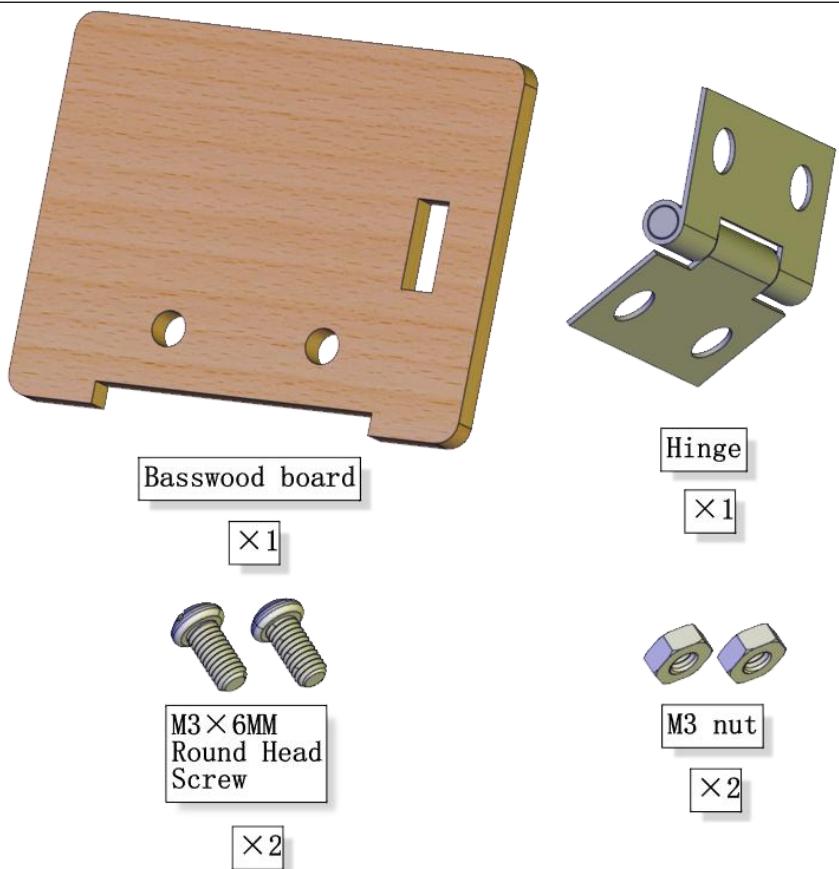


complete

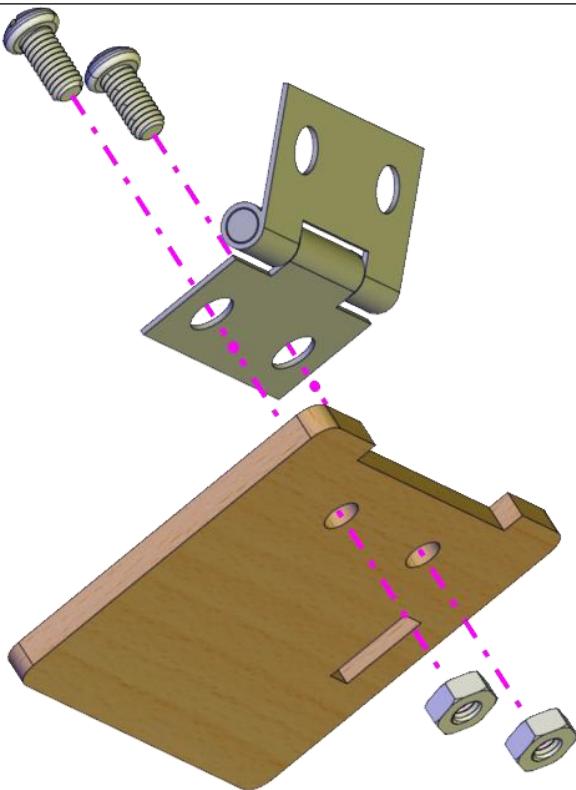


# Installation 15

Installation of required parts



Install

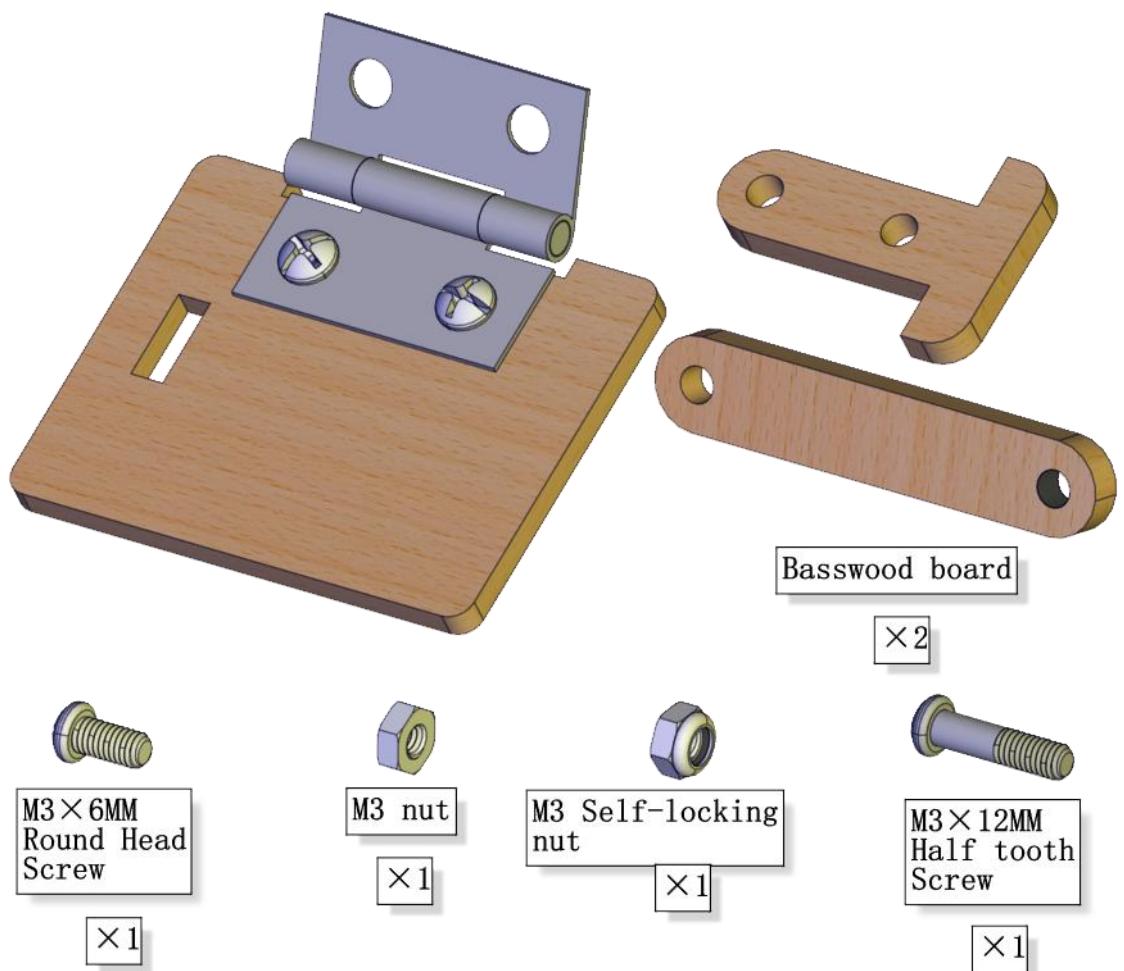


complete

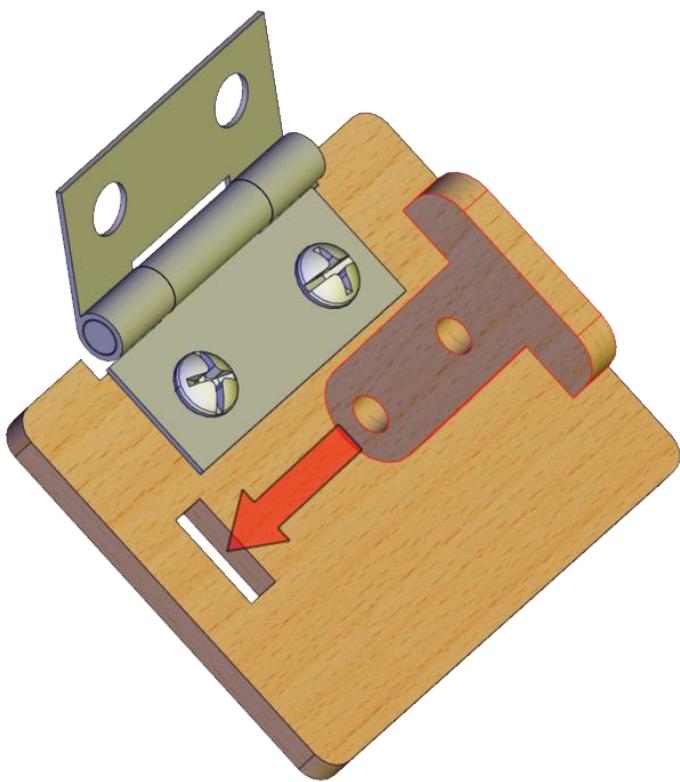


## Installation 16

Installation  
on of  
required  
parts

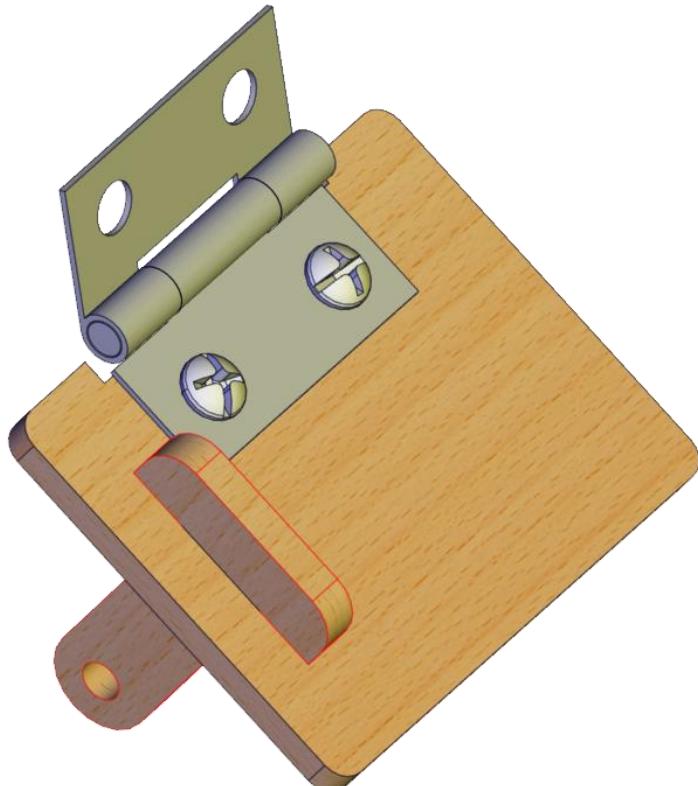


Step 1

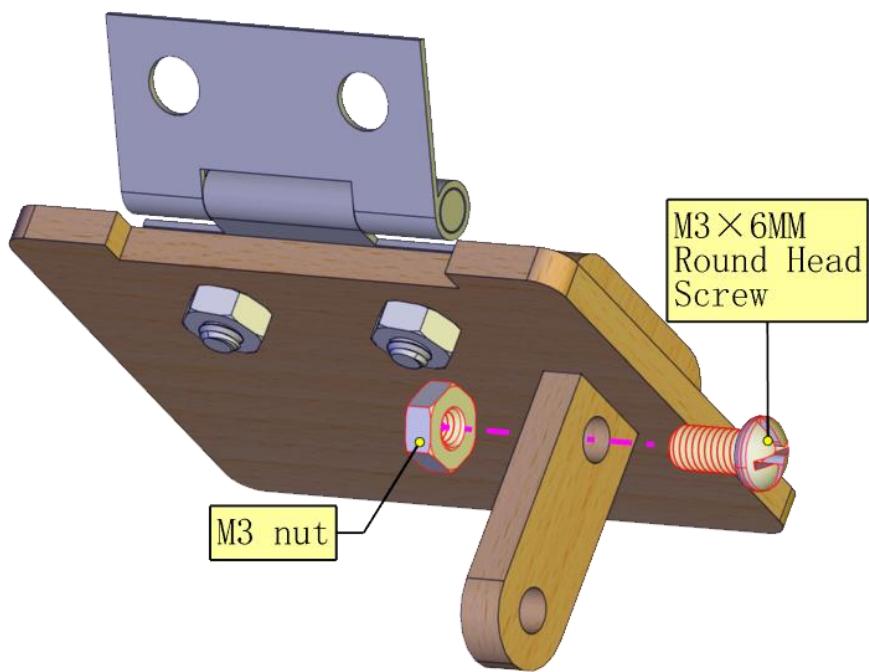


Step 1

complete

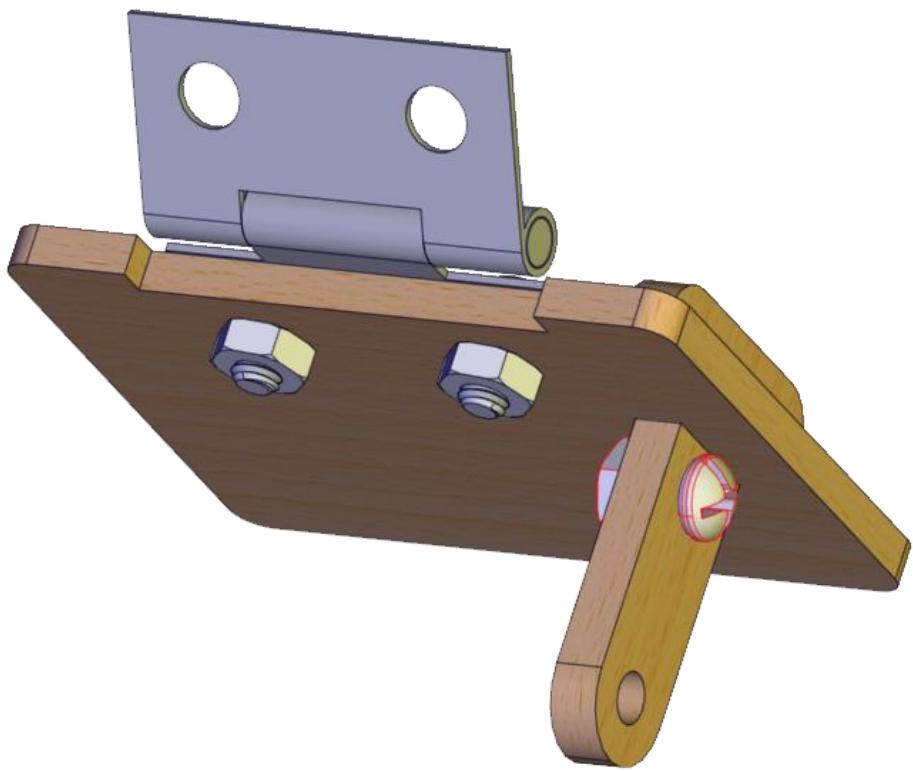


Step 2



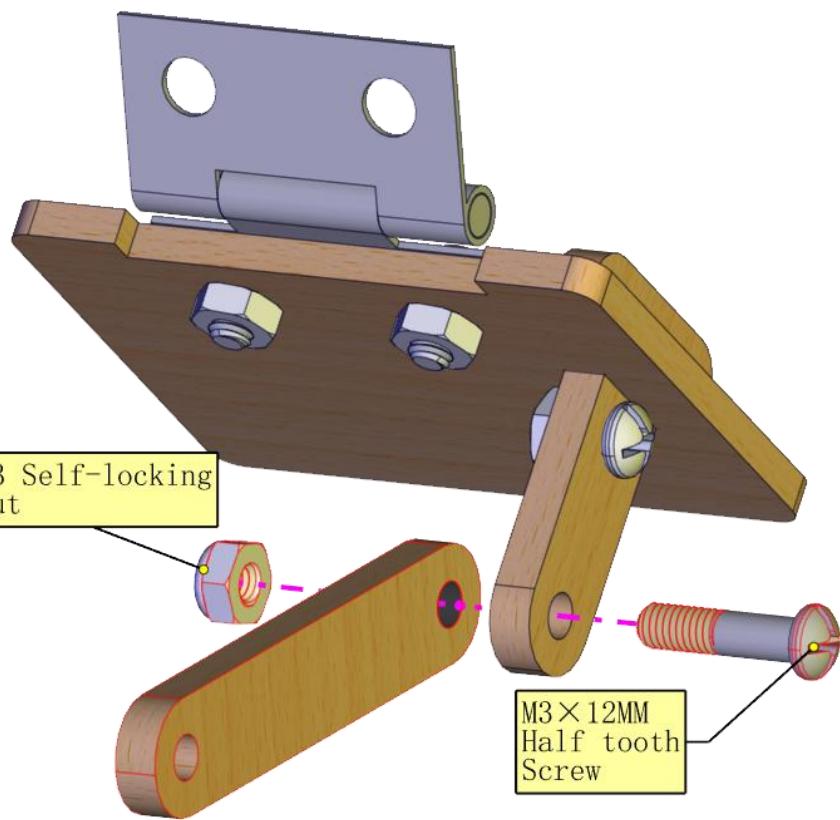
Step 2

complete

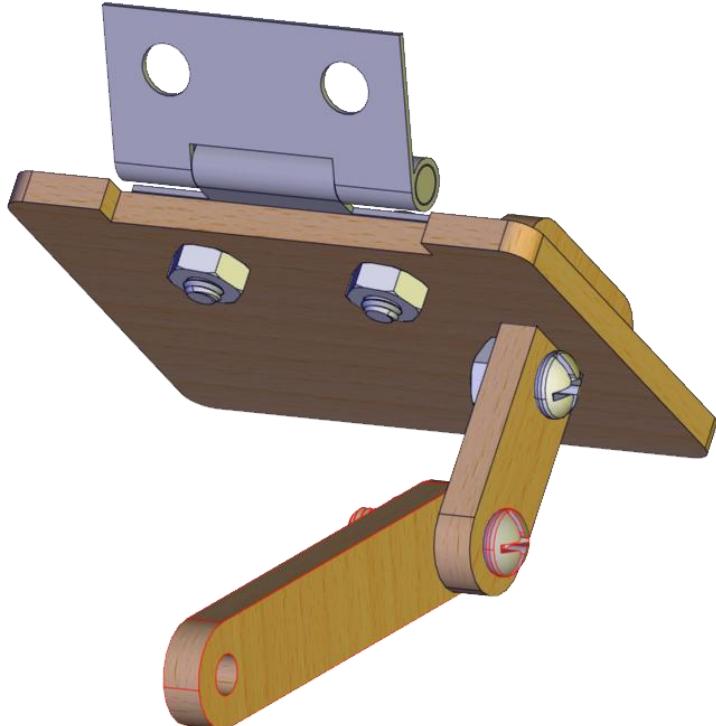


## Step 3

(Note that  
the  
self-locking  
nut cannot  
be locked)

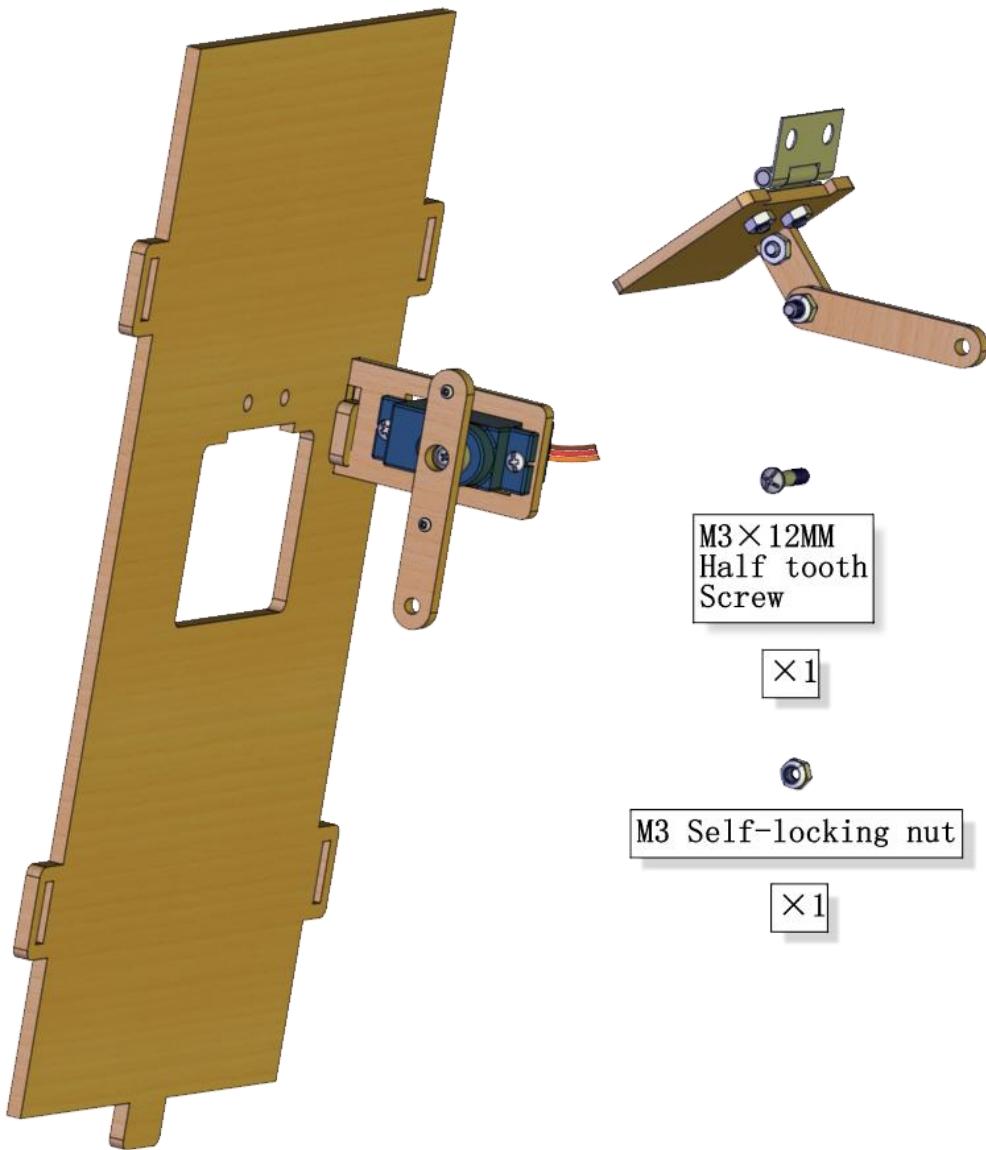


complete



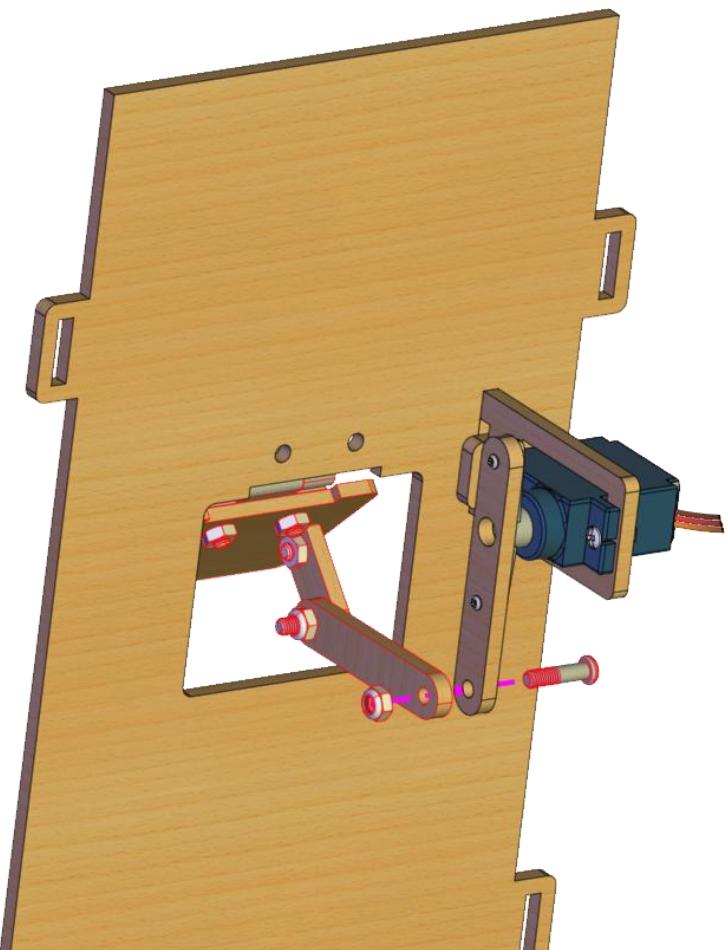
# Installation 17

Installation  
on of  
required  
parts

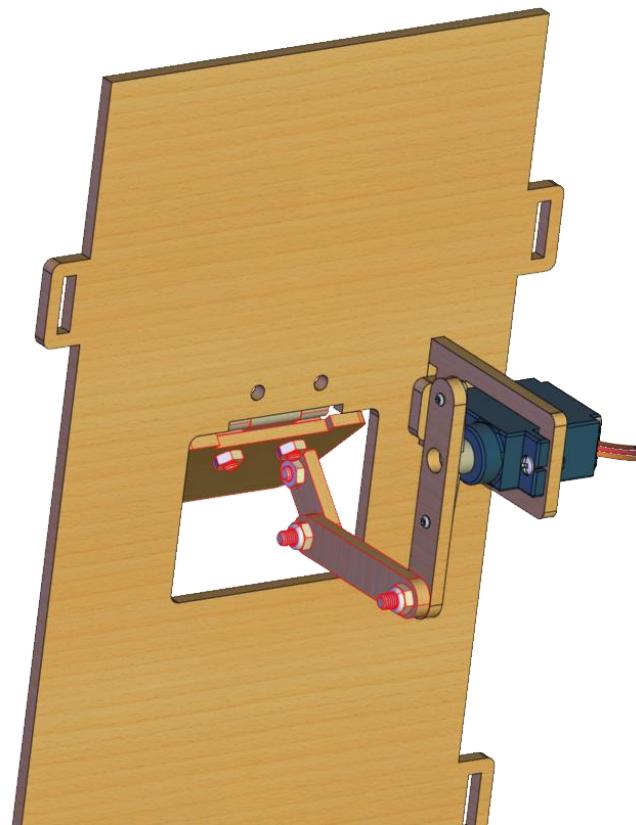


## Install

(Note that  
the  
self-locking  
nut cannot  
be locked)

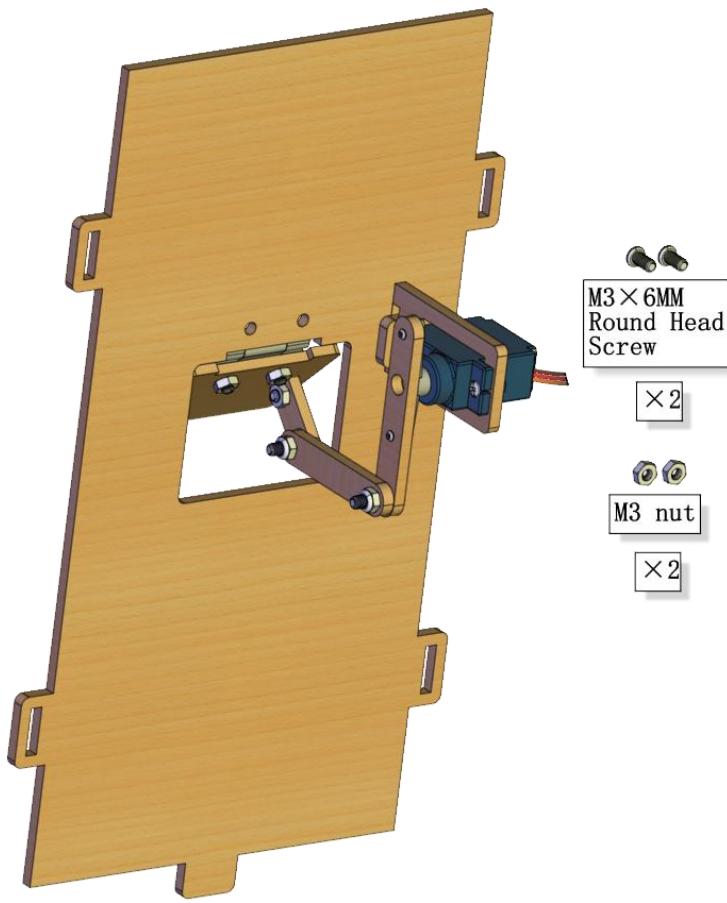


complete

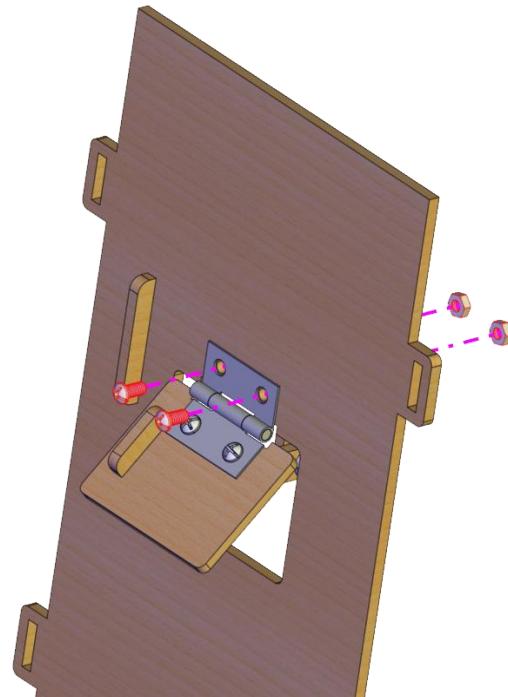


## Installation 18

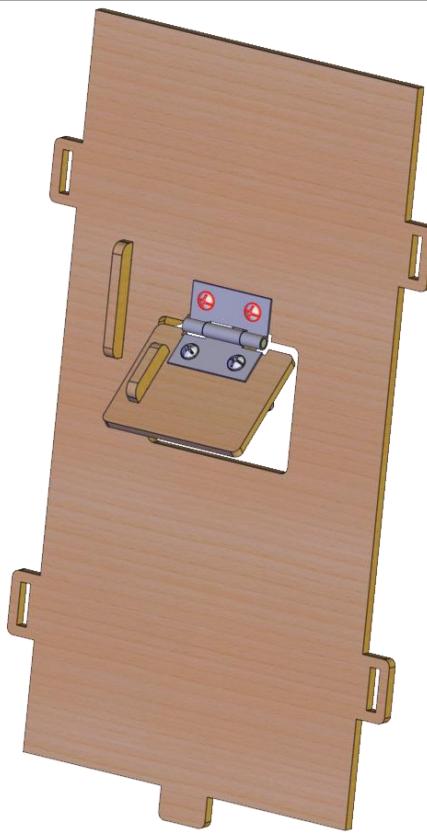
Installation of required parts



Install

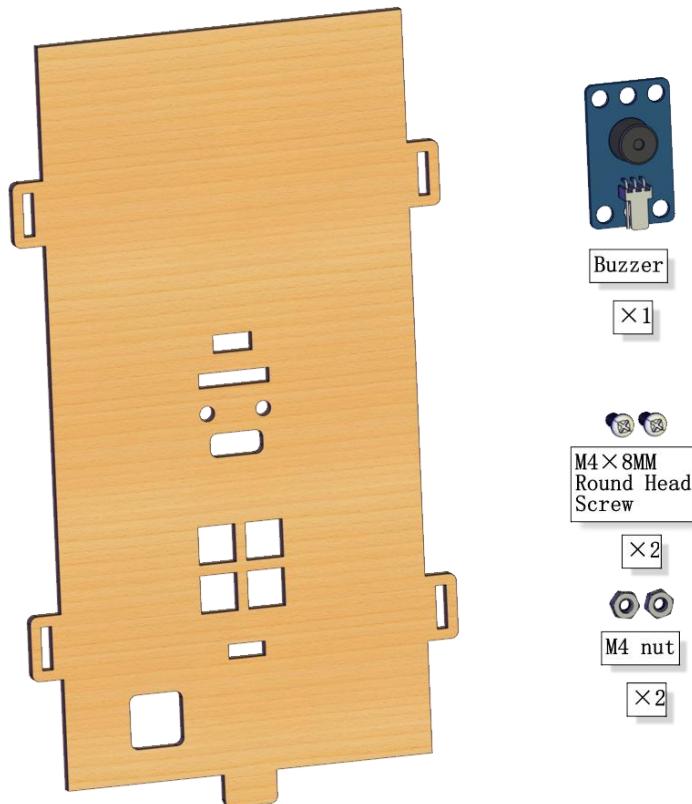


complete

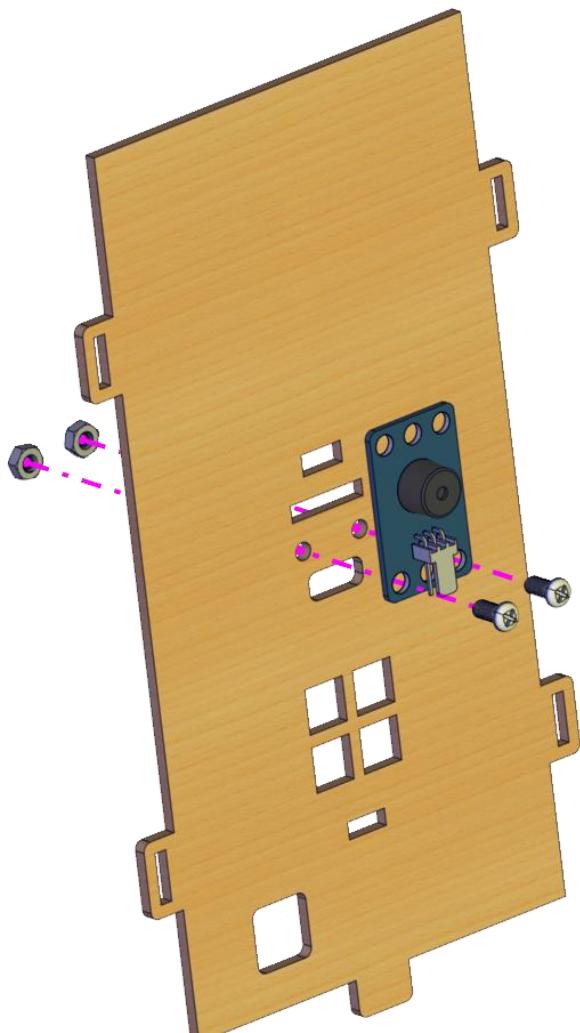


## Installation 19

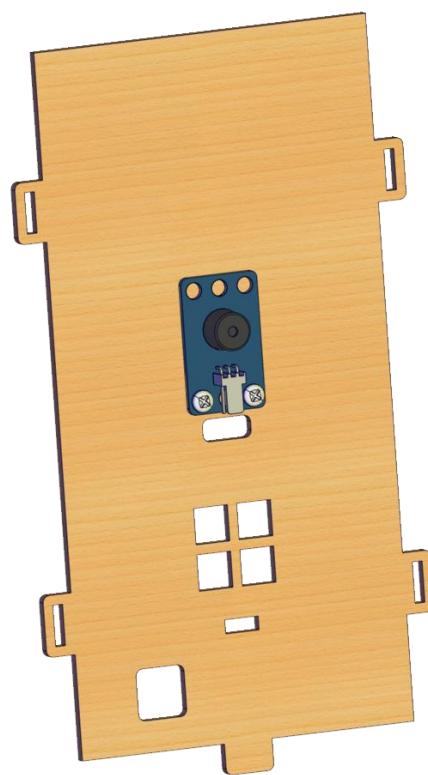
Installation  
on of  
required  
parts



Install

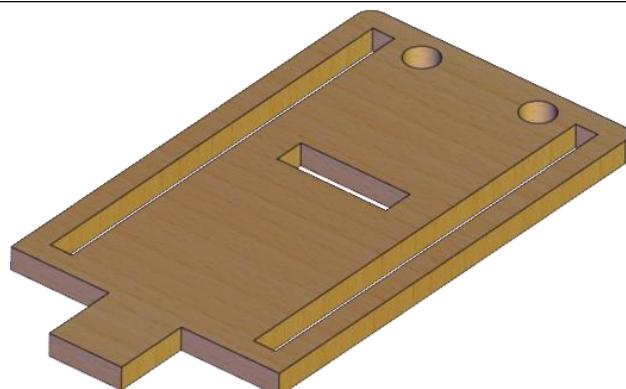


complete



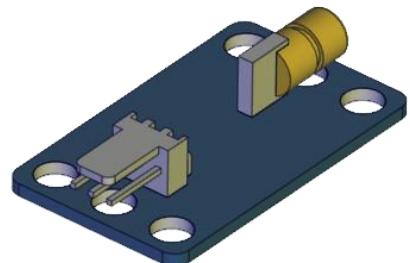
## Installation 20

Installation  
on of  
required  
parts



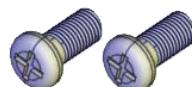
Basswood board

×1



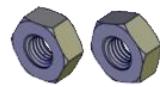
laser

×1



M4\*8MM Round Head  
Screw

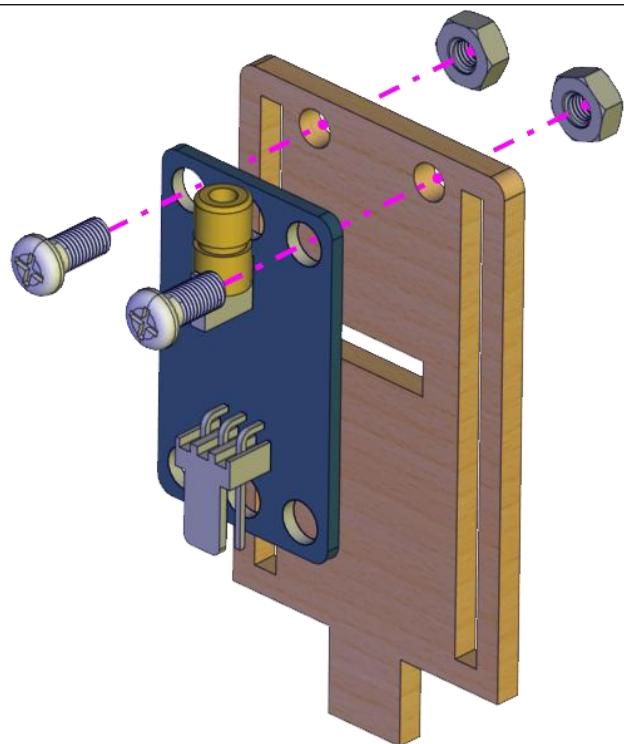
×2



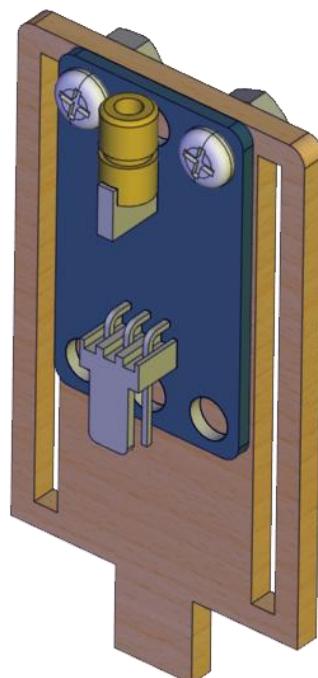
M4 nut

×2

Install



complete



## Installation 21

Installation of required parts

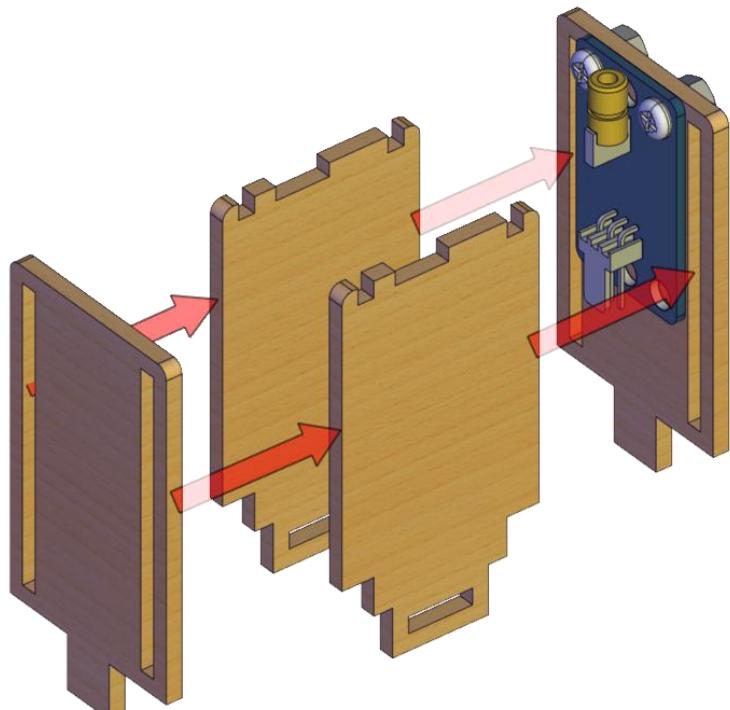


Basswood board

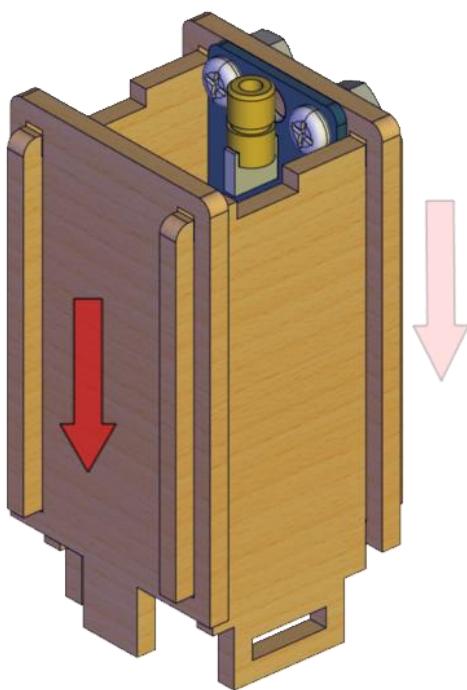
$\times 3$

## Step 1

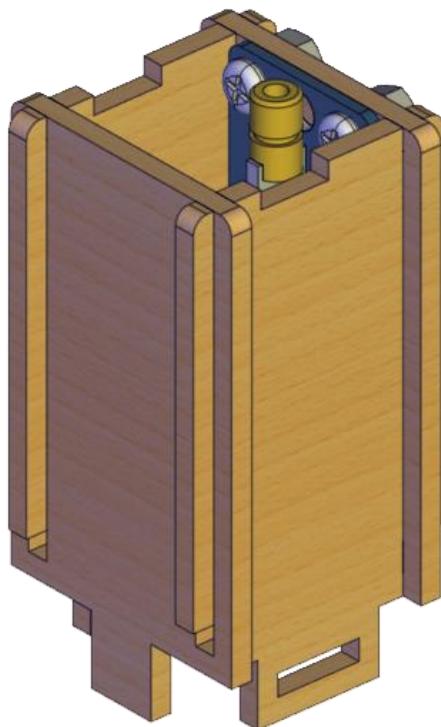
(Note that long wire is used to connect the laser module before installation)



Step 2

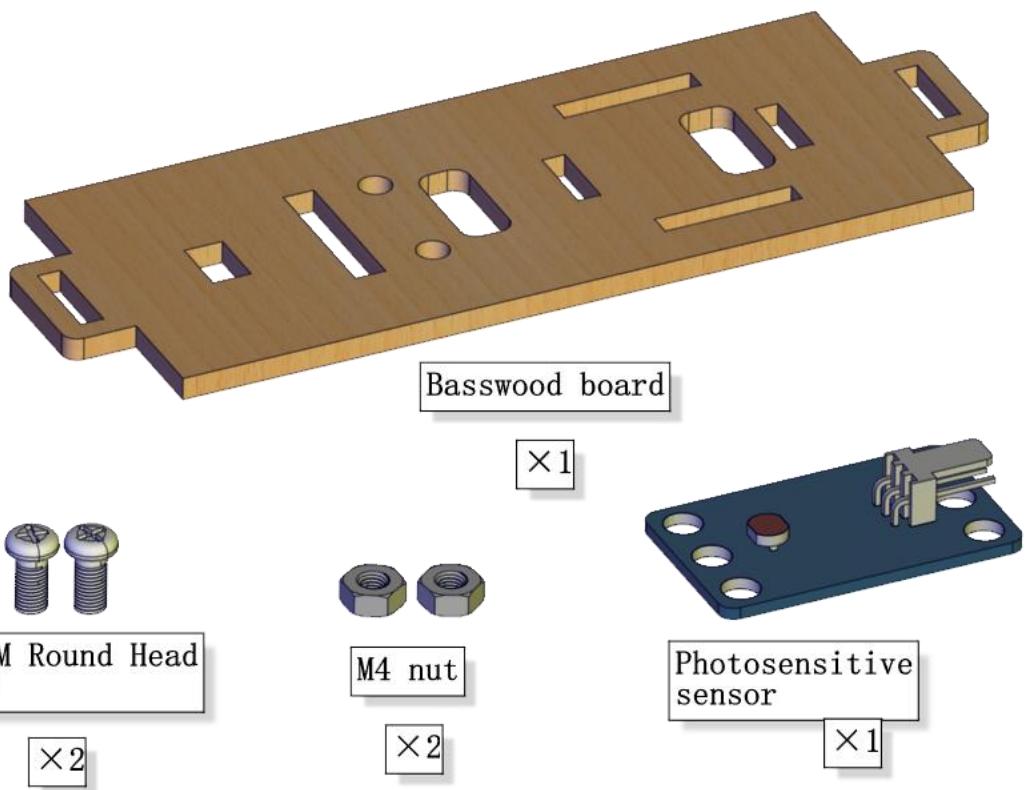


complete

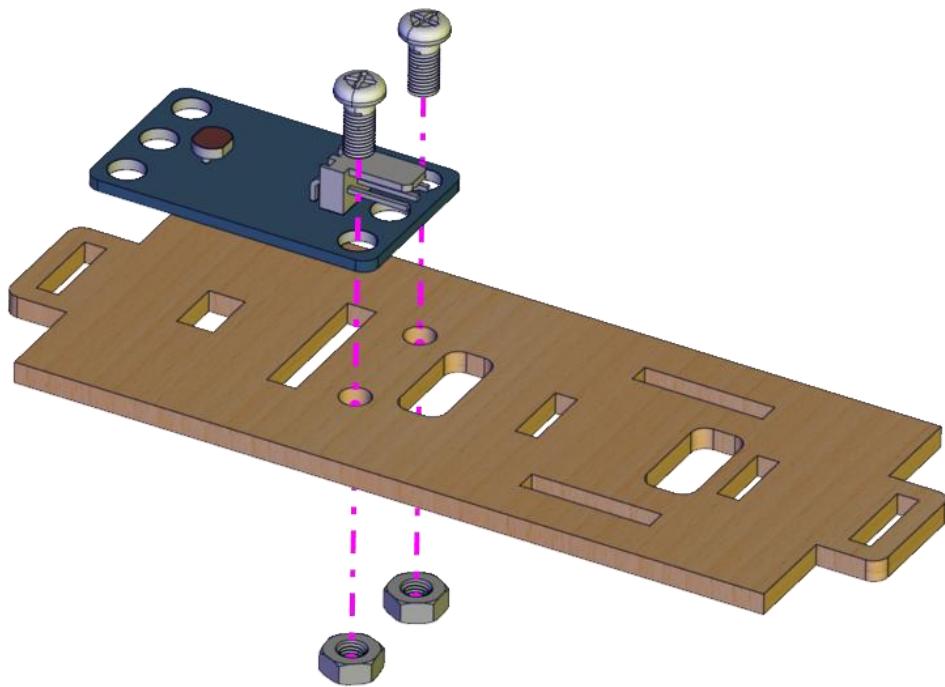


## Installation 22

Installation of required parts



Install

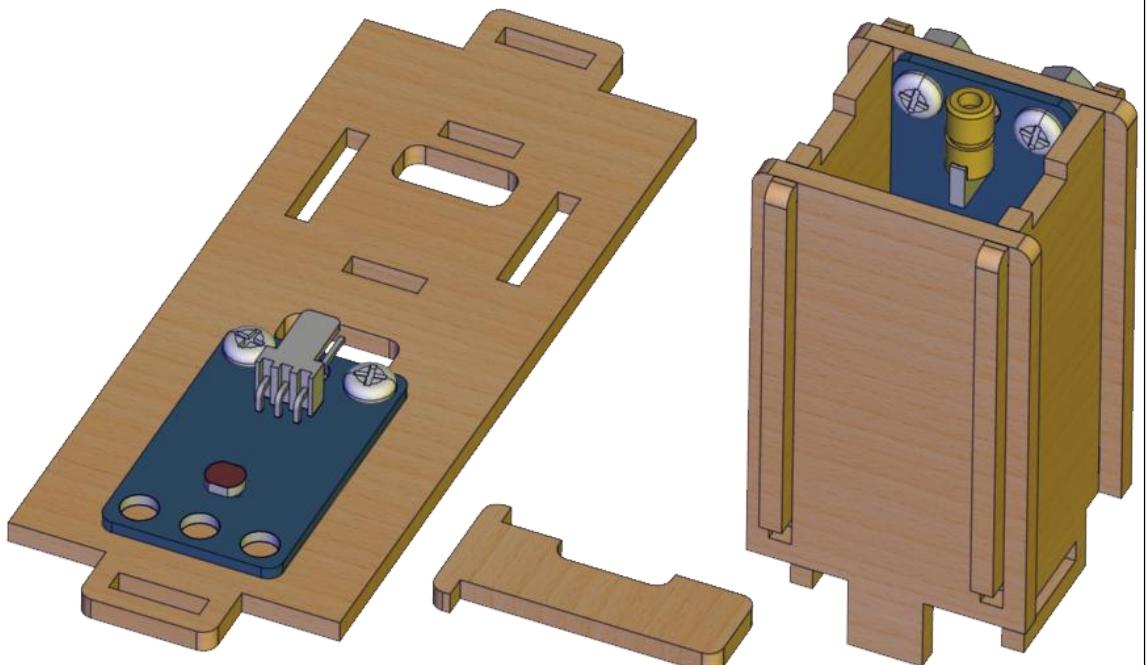


complete



## Installation 23

Installation  
of  
required  
parts

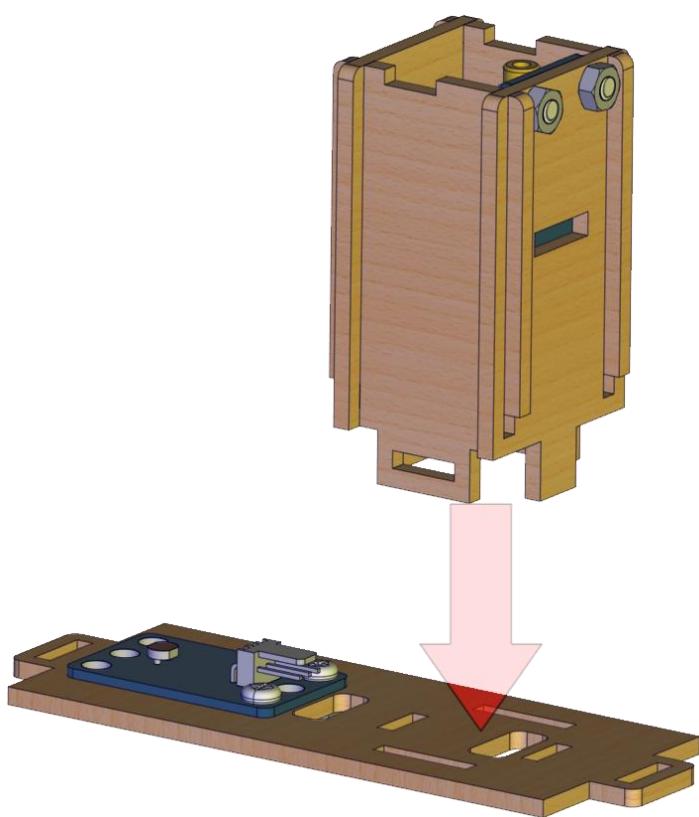


Basswood board

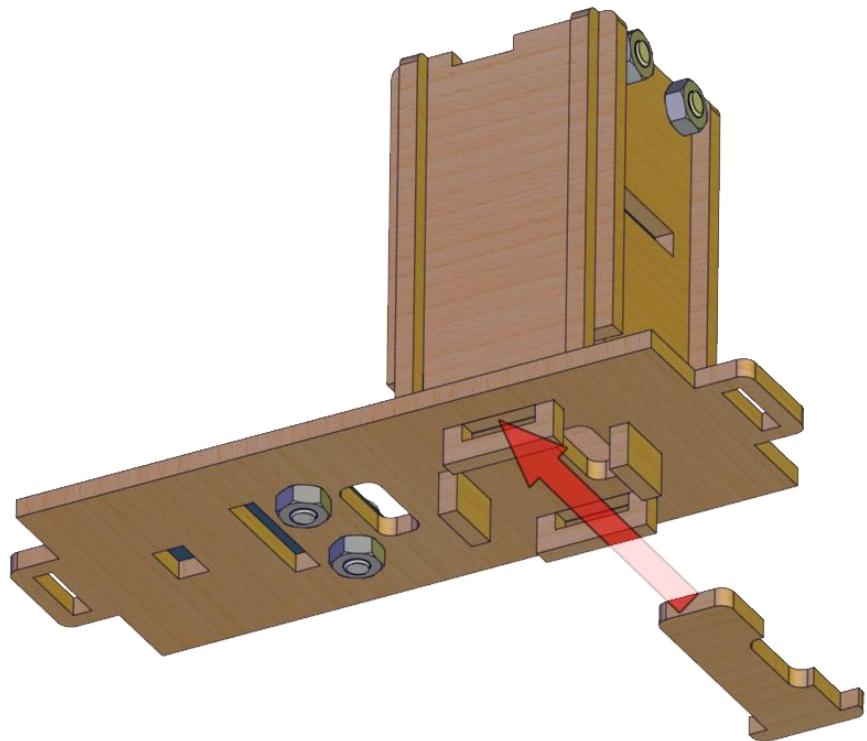
×1

## Step 1

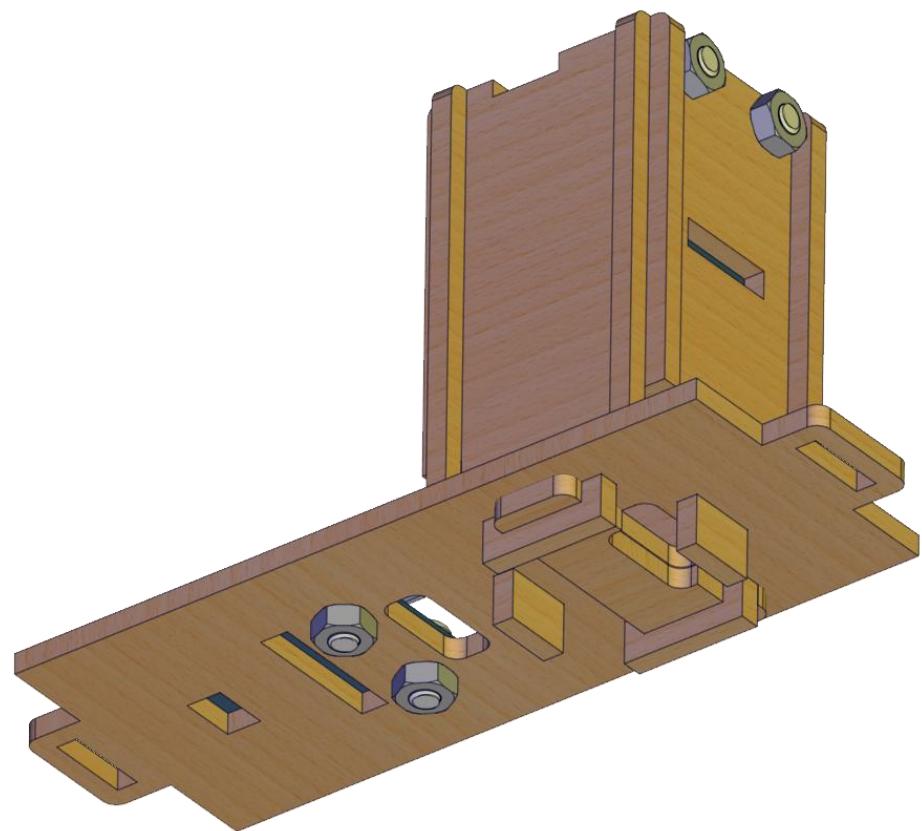
(Pass the  
wire through  
the hole in  
the bottom  
plate)



## Step 2

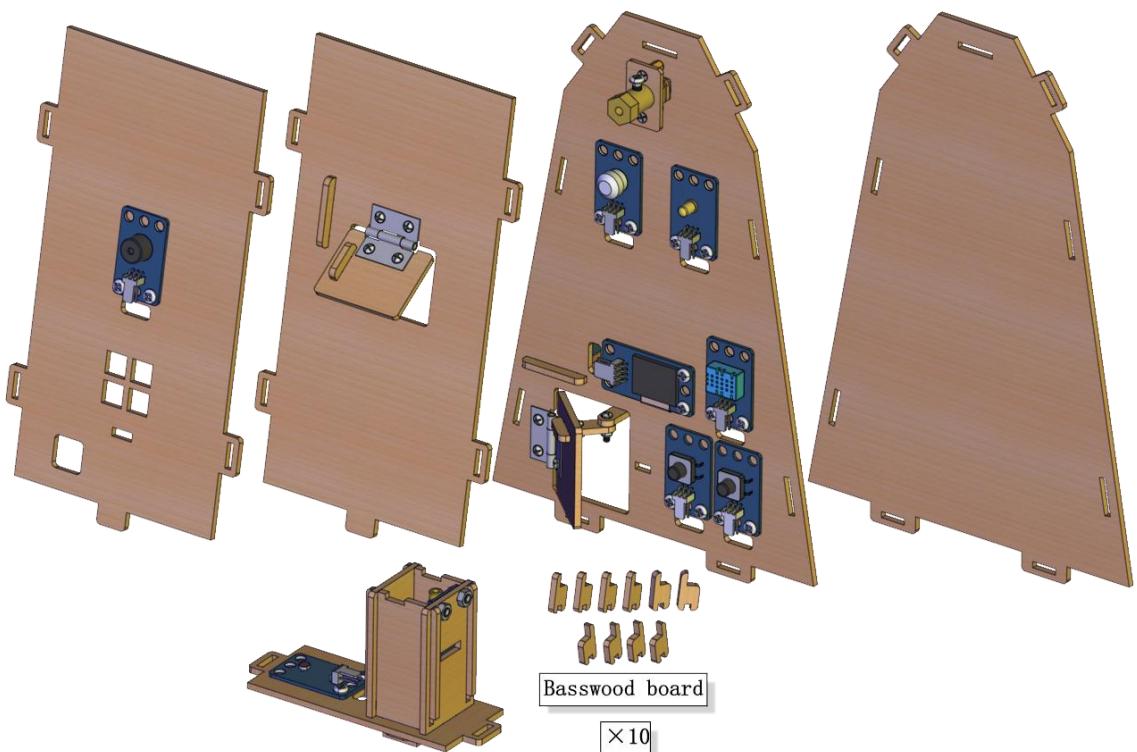


complete

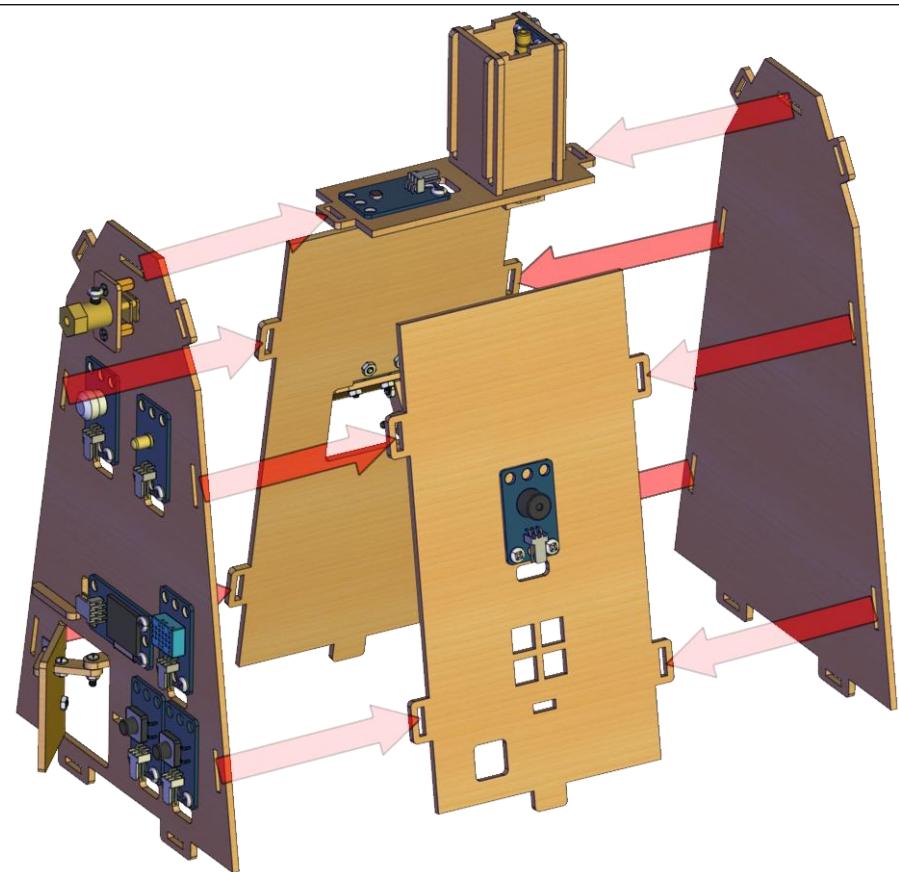


## Installation 24

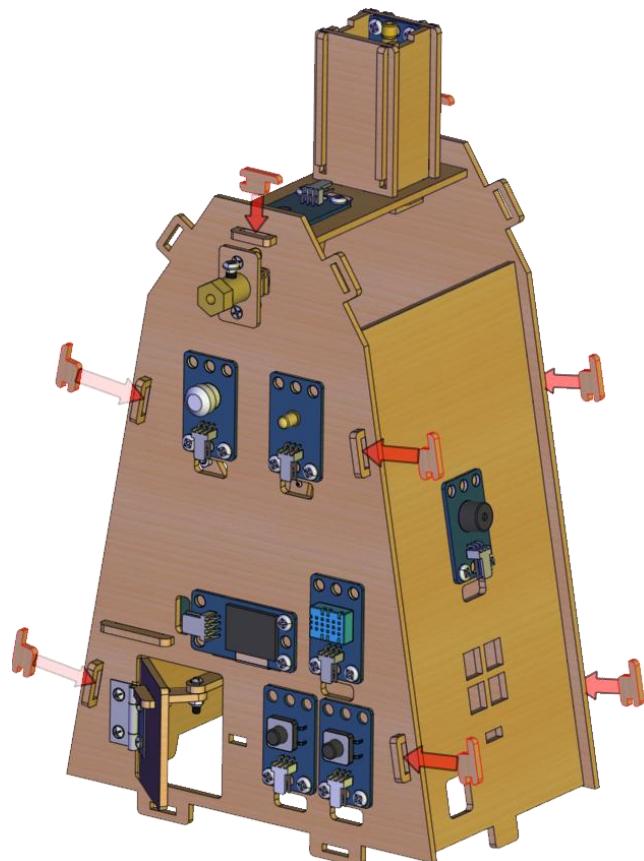
Installation  
of required  
parts



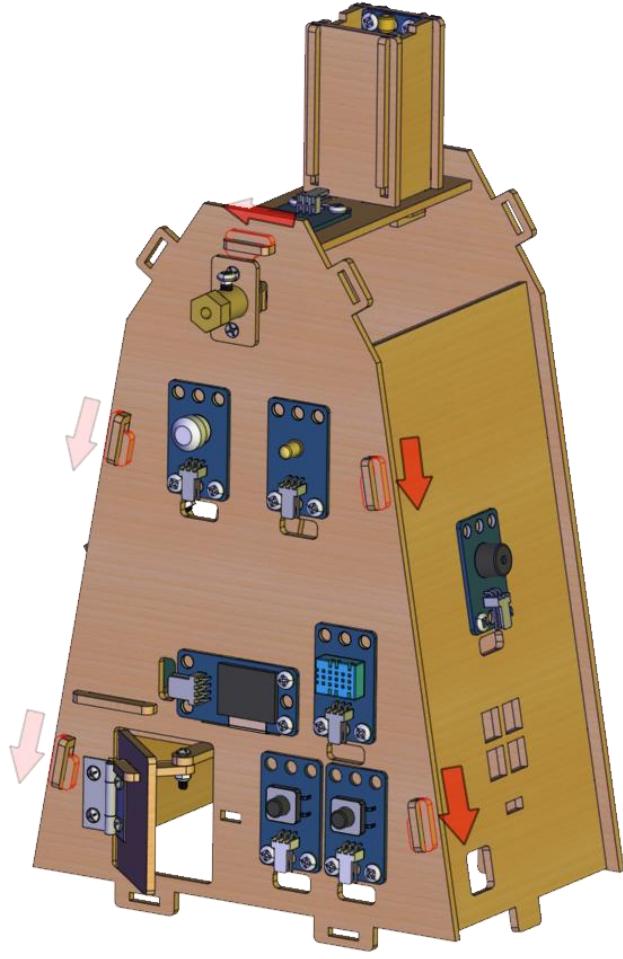
Step 1



Step 2

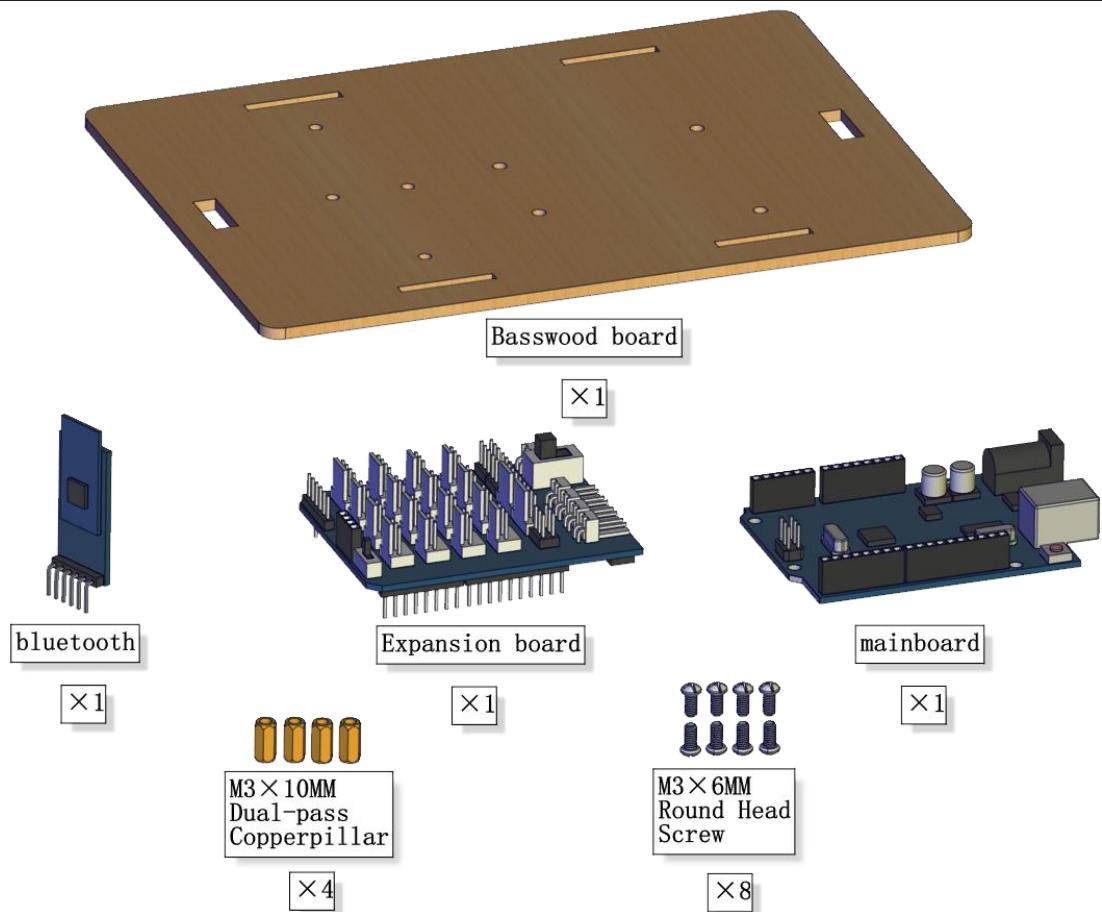


complete

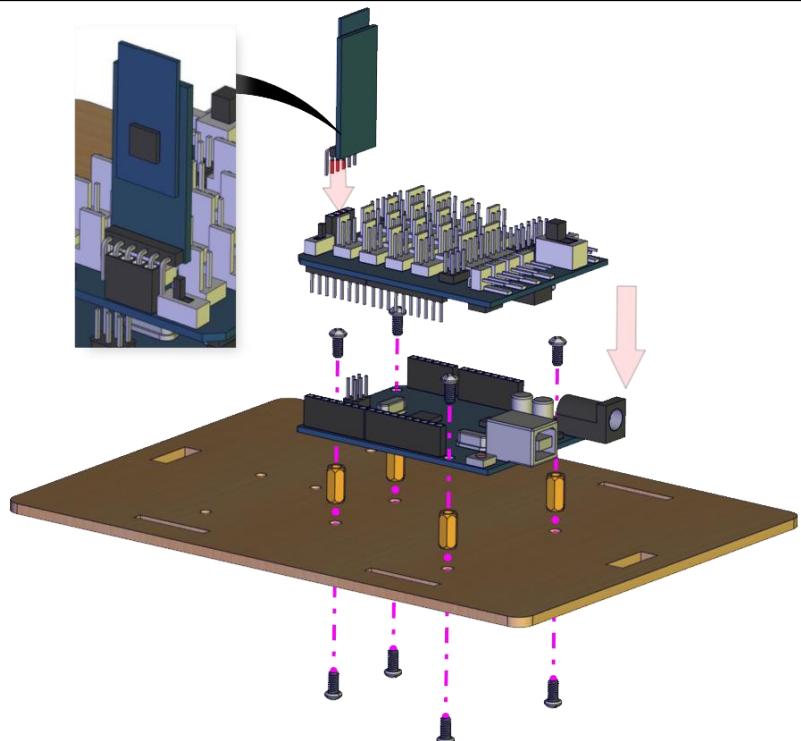


# Installation 25

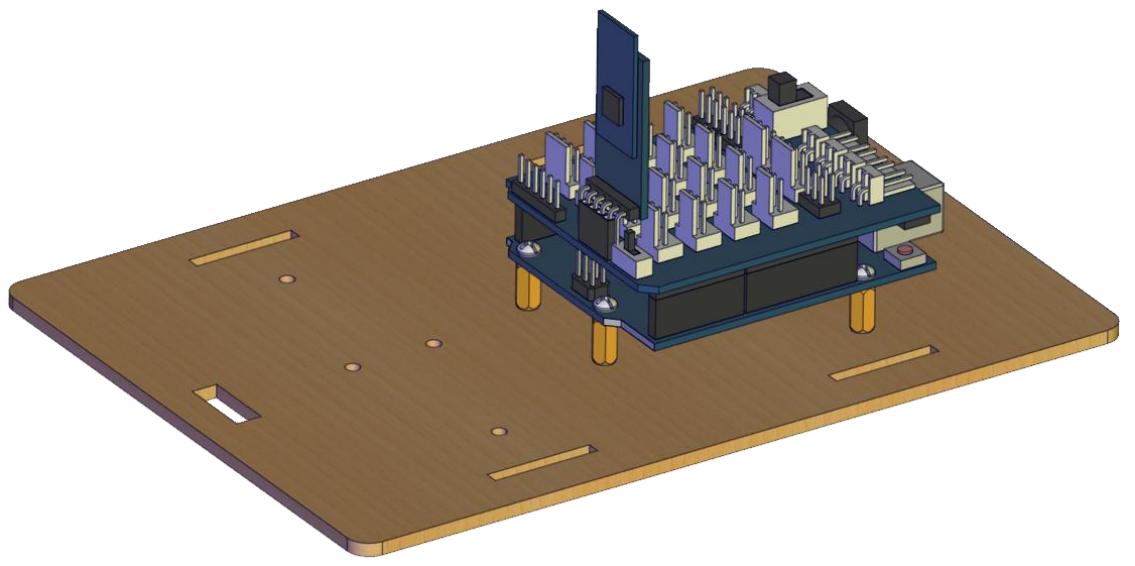
Installation  
of  
required  
parts



Install  
(Note the  
Bluetooth  
installation  
direction)

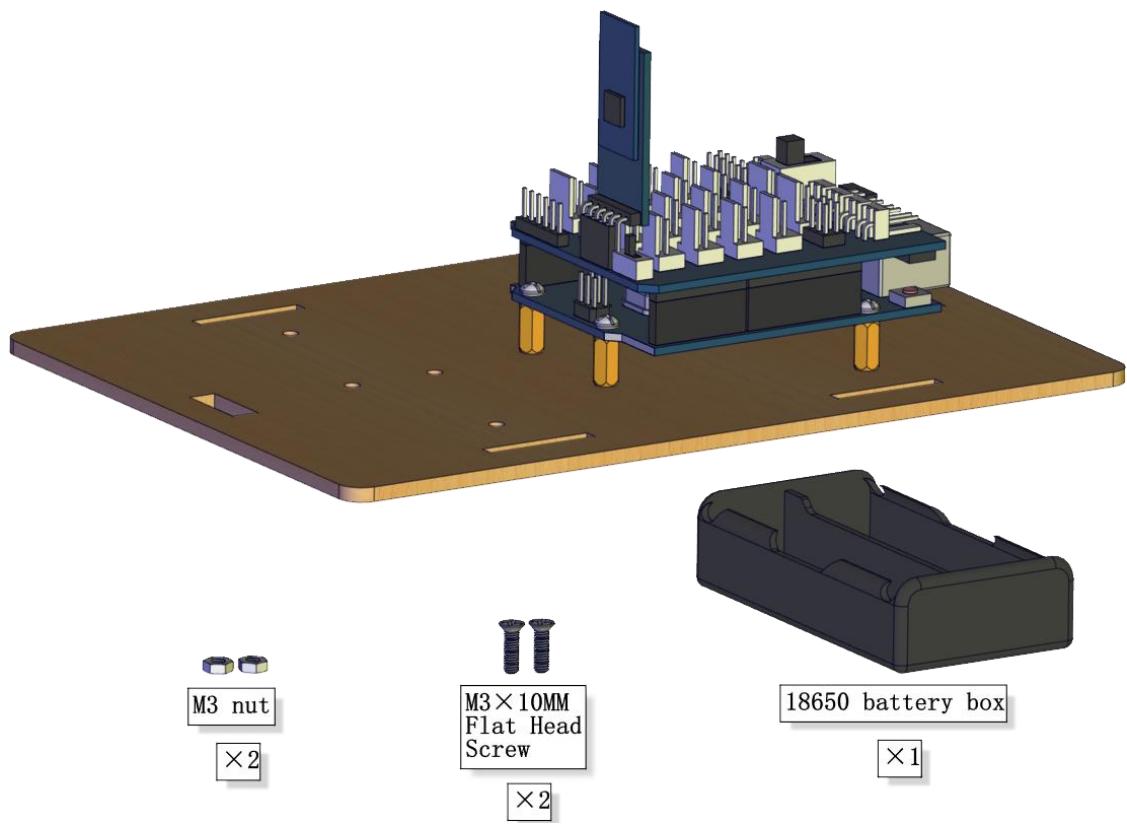


complete

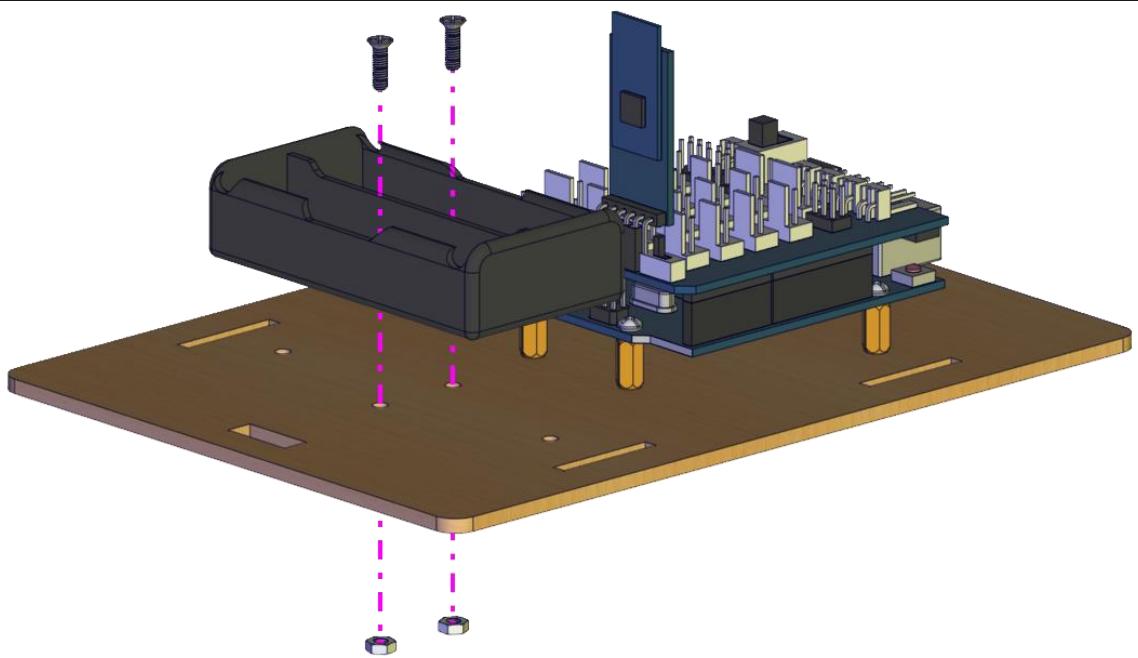


# Installation 26

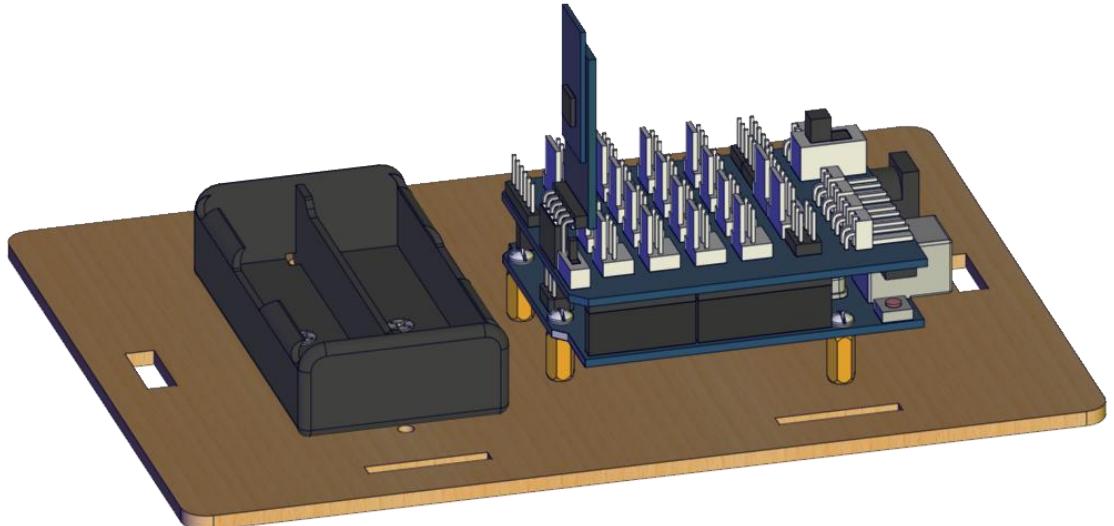
Installation  
on of  
required  
parts



Install

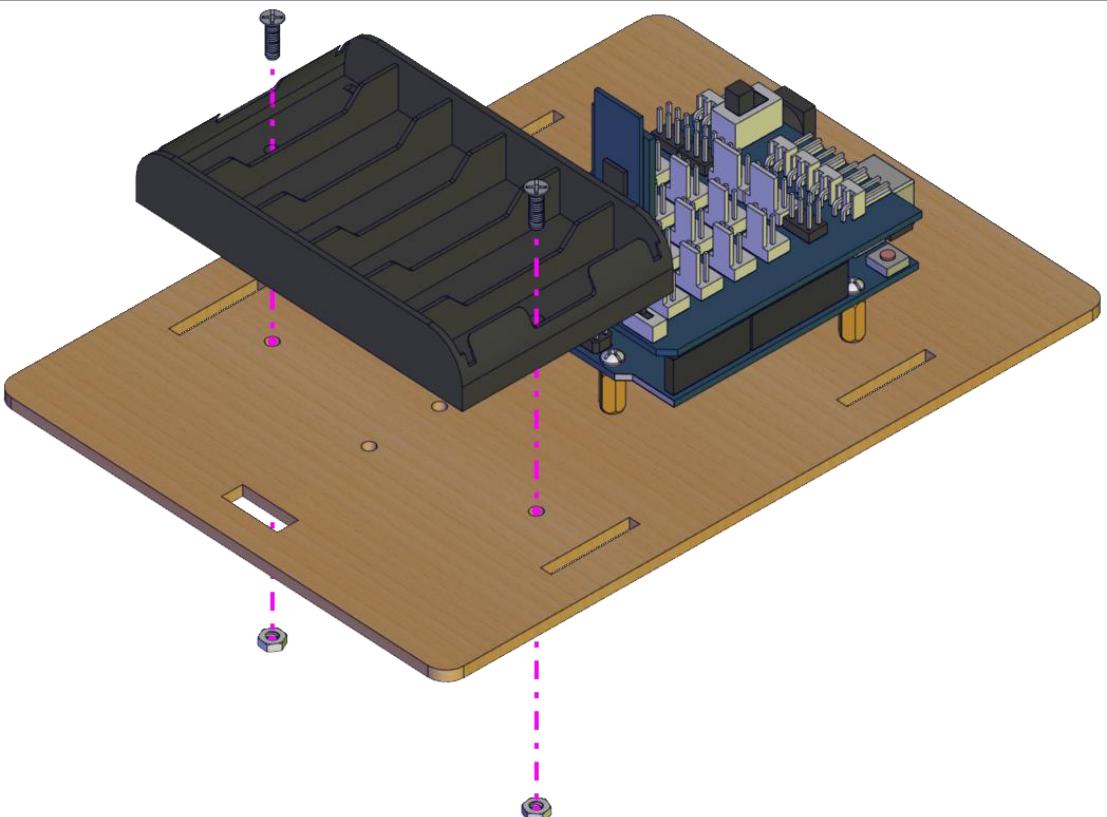


complete

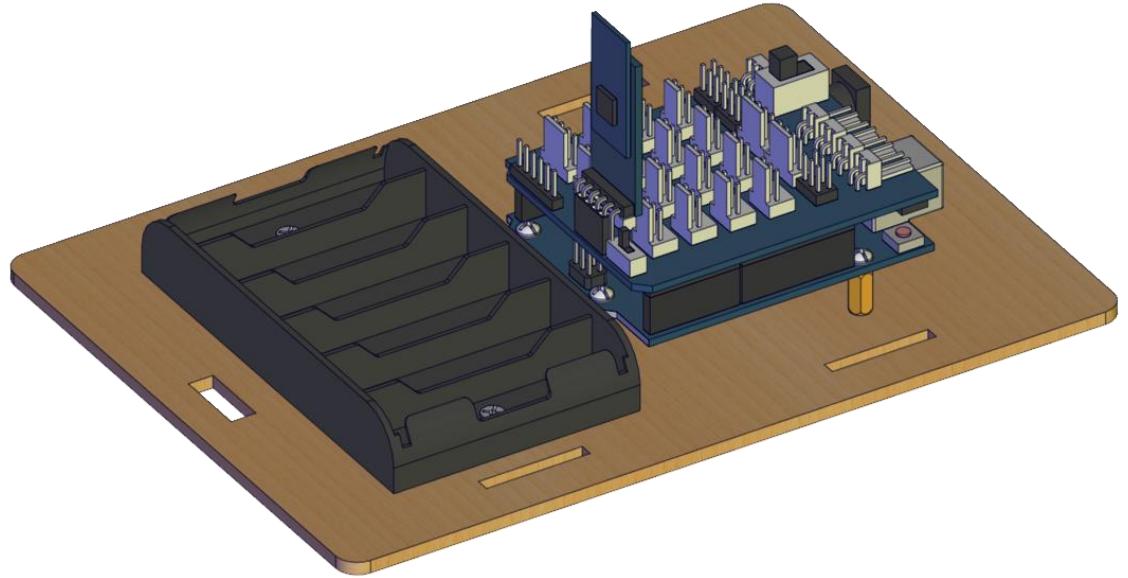


## Replaceable AA battery cases

Install



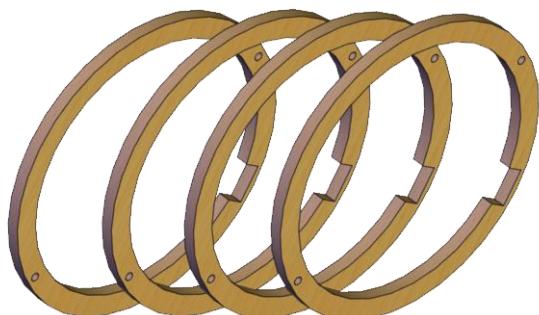
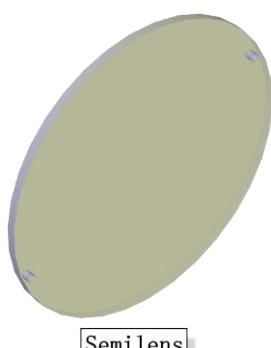
complete



## Installation 27

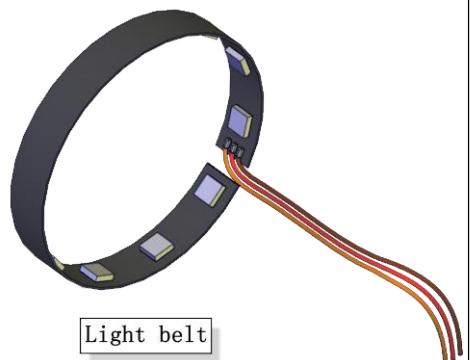
Installation  
of  
required  
parts

(The  
protective  
film of the  
lens needs to  
be removed)



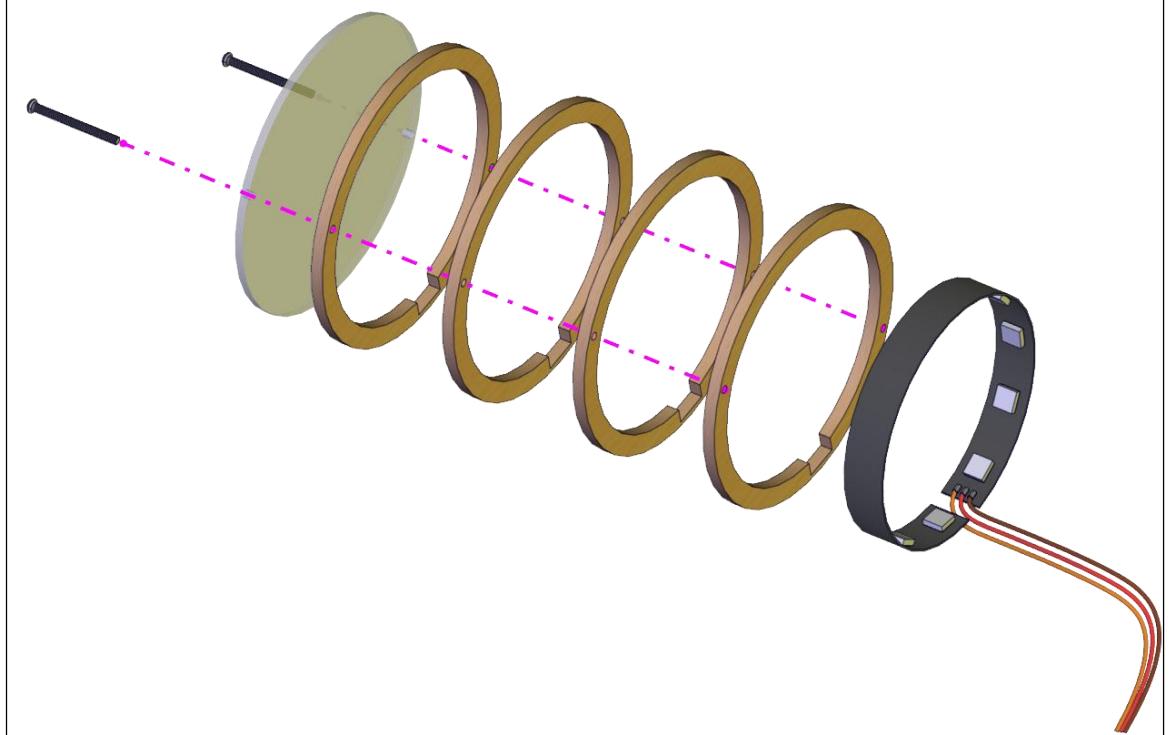
Basswood board  
× 4

M2 × 20MM  
Round Head  
Screw  
× 2

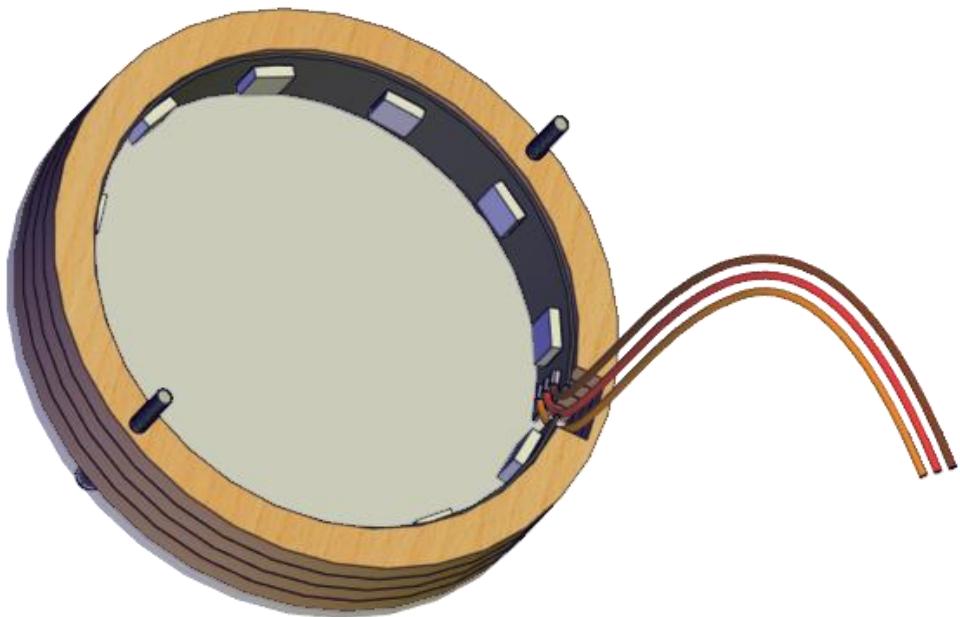


Light belt  
× 1

Install  
(Paste  
the light  
strip on  
the ring  
wall)



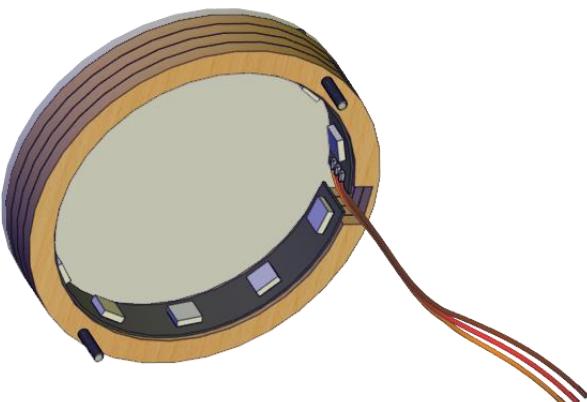
complete



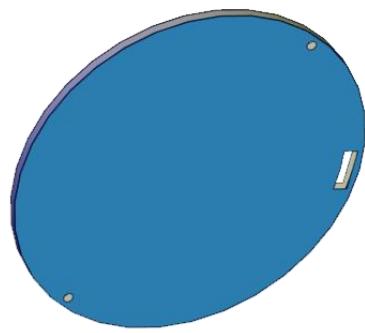
## Installation 28

Installation  
of  
required  
parts

(The  
protective  
film of the  
lens needs to  
be removed)



M2 nut  
×2

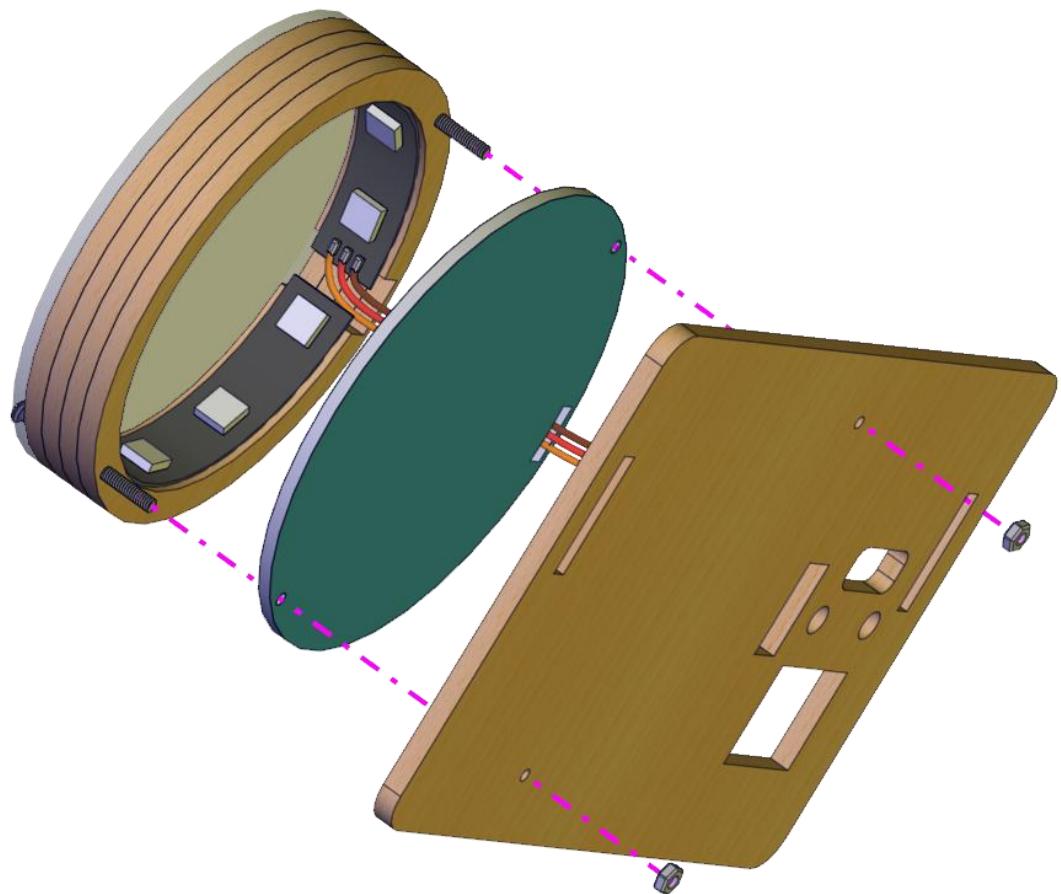


reflector  
×1

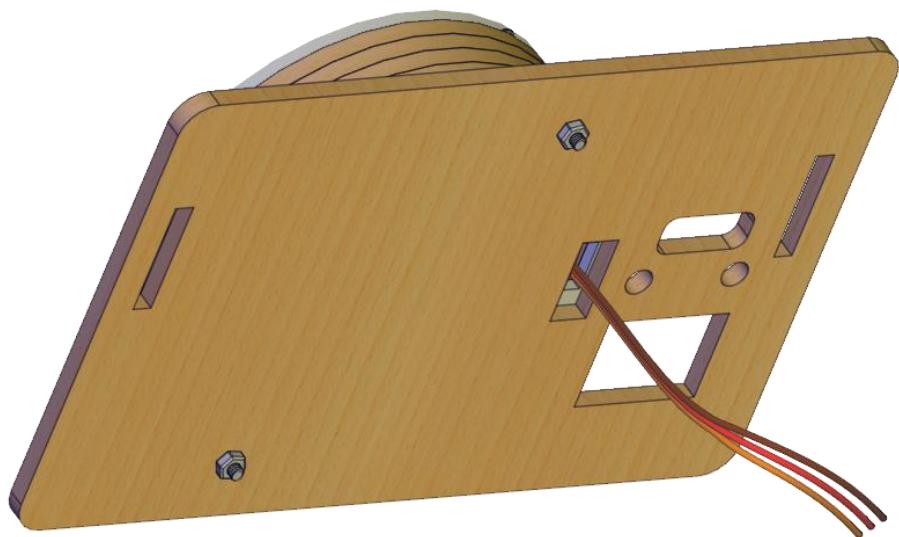


Basswood board  
×1

Install

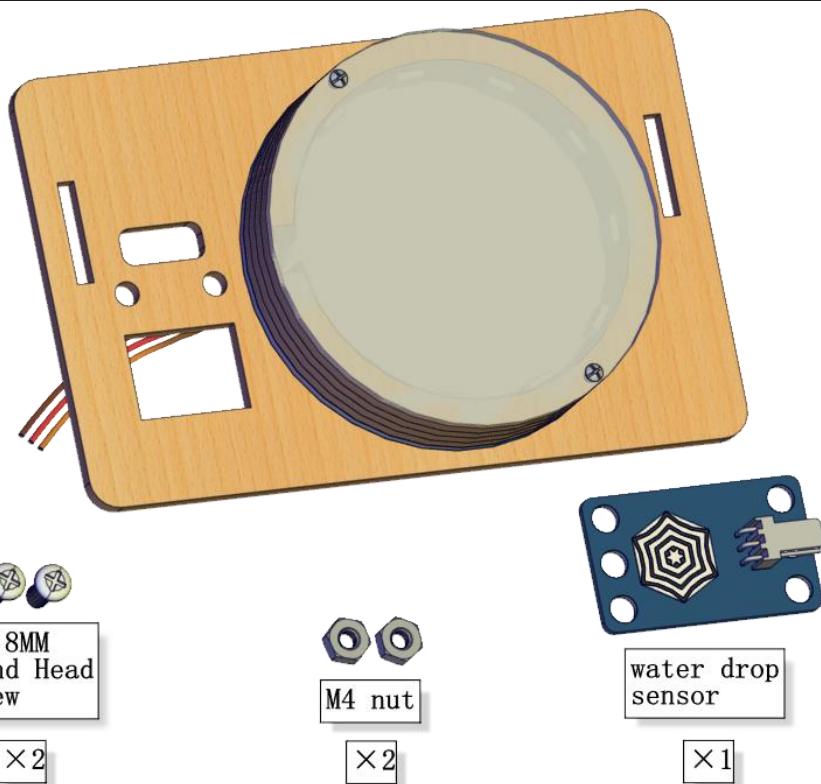


complete

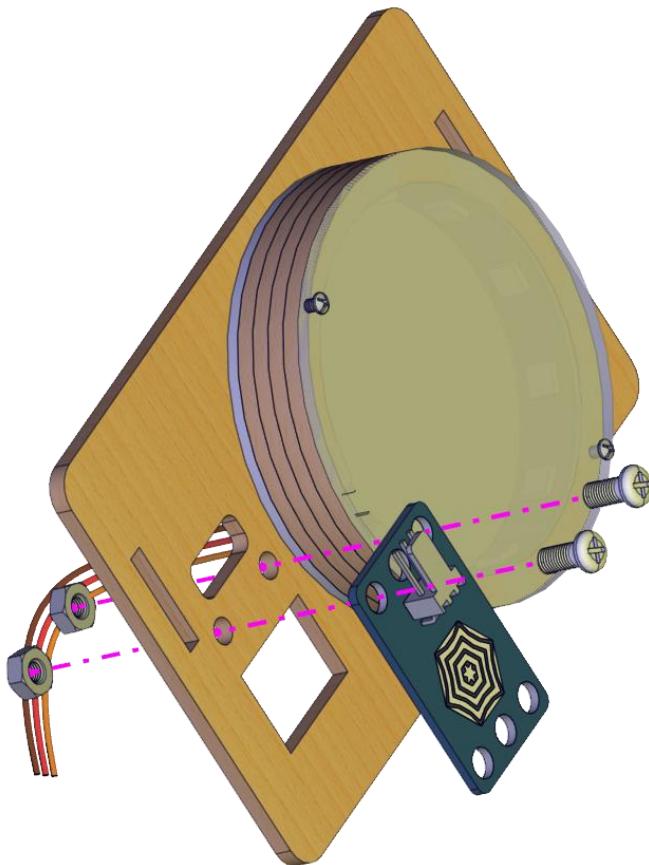


## Installation 29

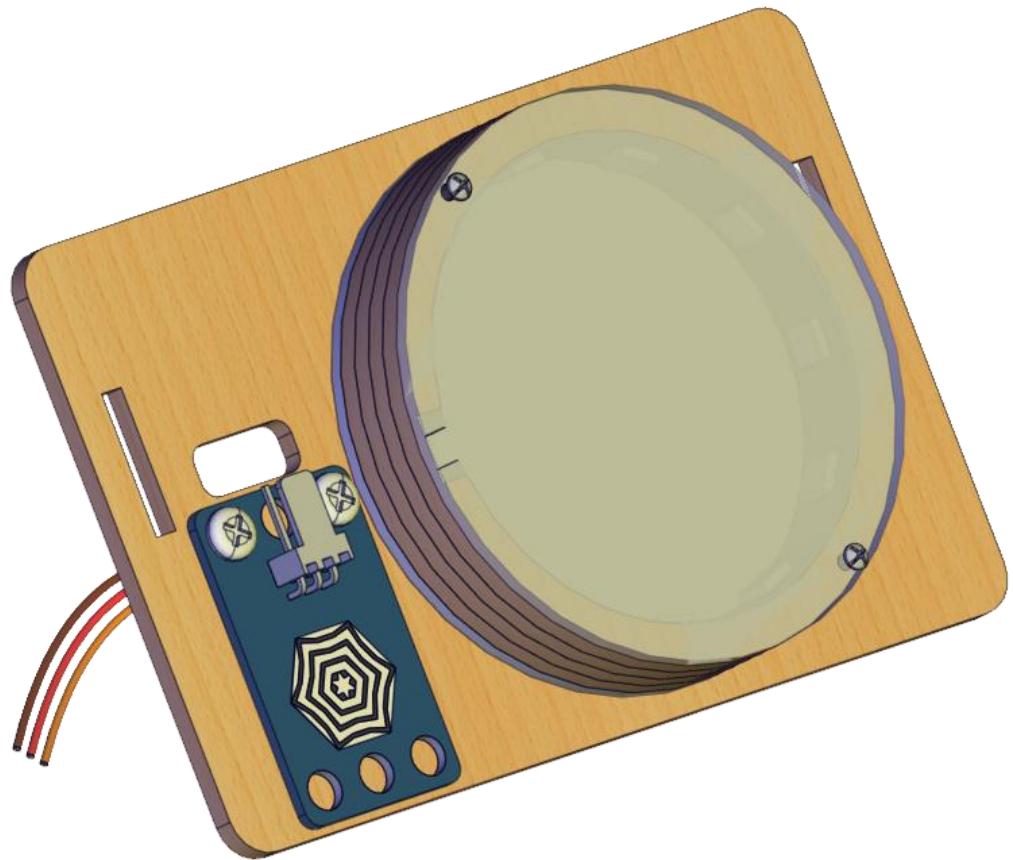
Installation of required parts



Install



complete



## Installation 30

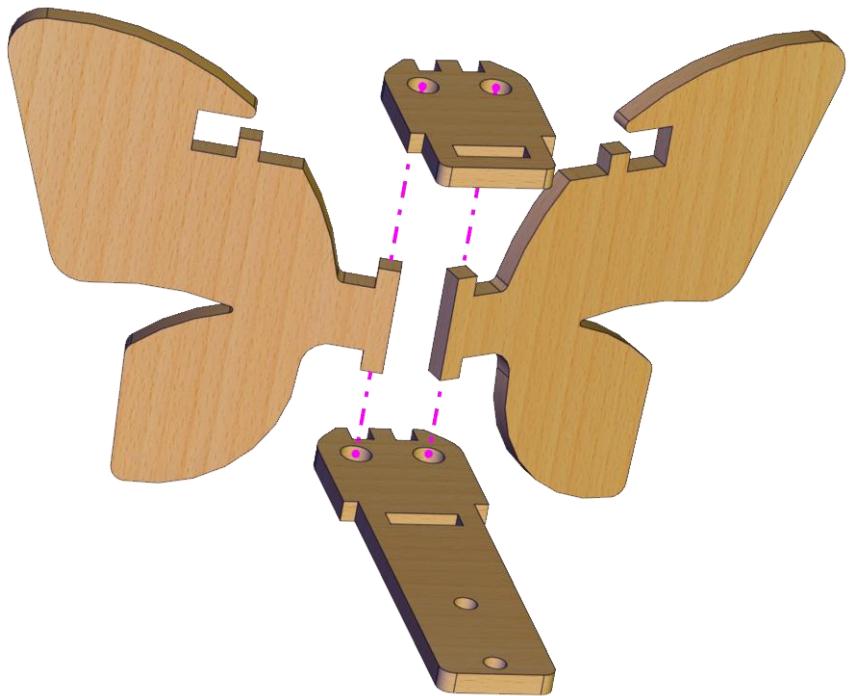
Installation  
of  
required  
parts



Basswood board

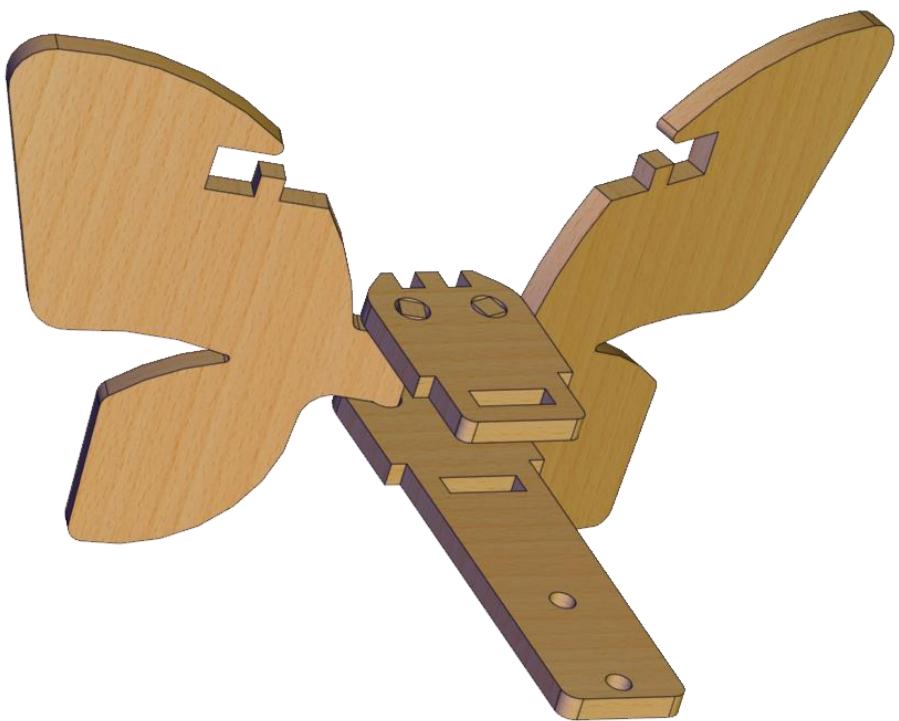
×6

Step 1

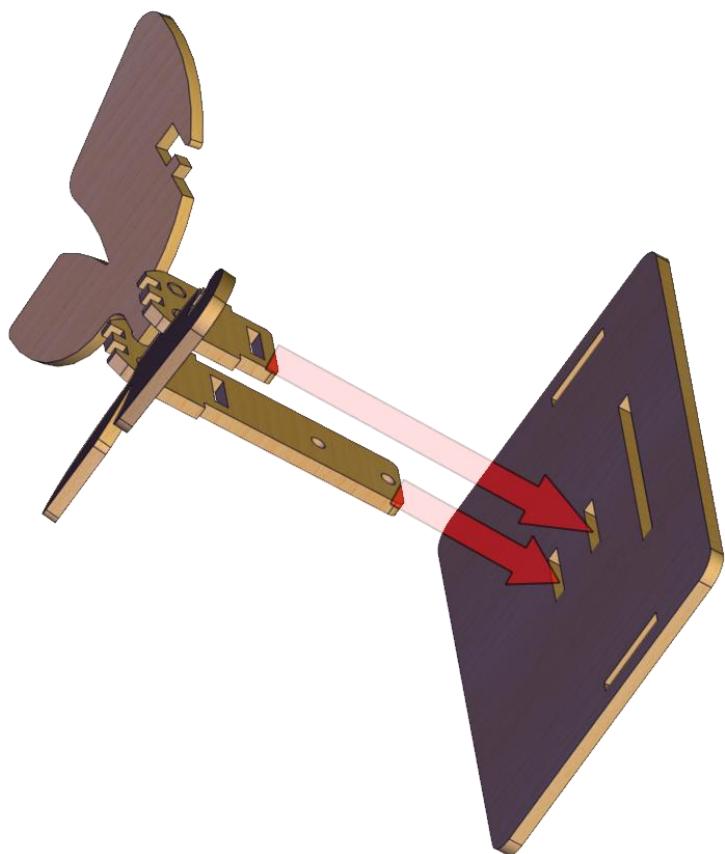


Step 1

complete

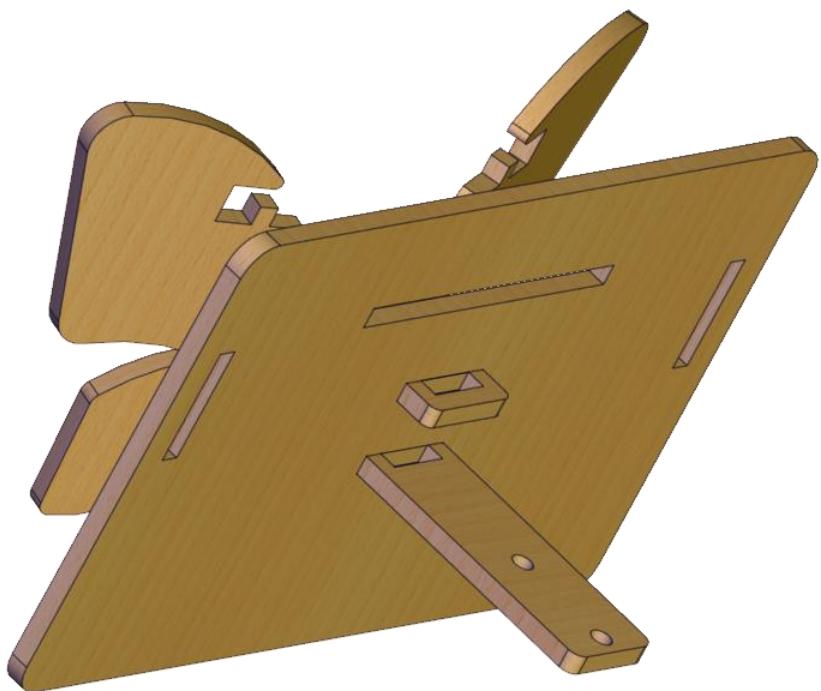


Step 2

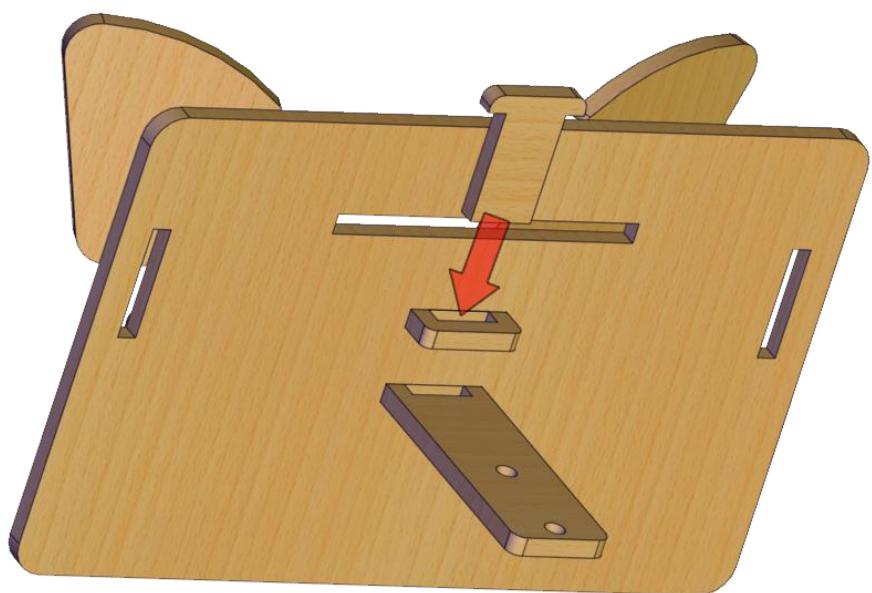


Step 2

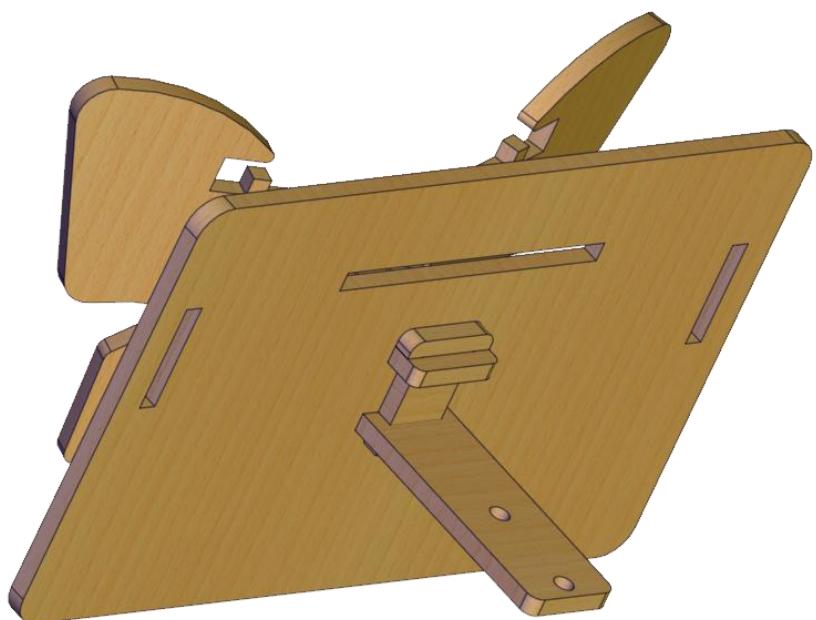
complete



Step 3

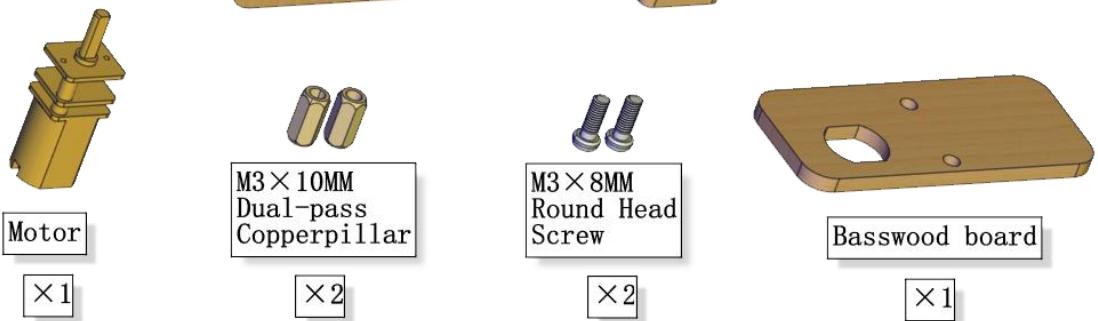


complete

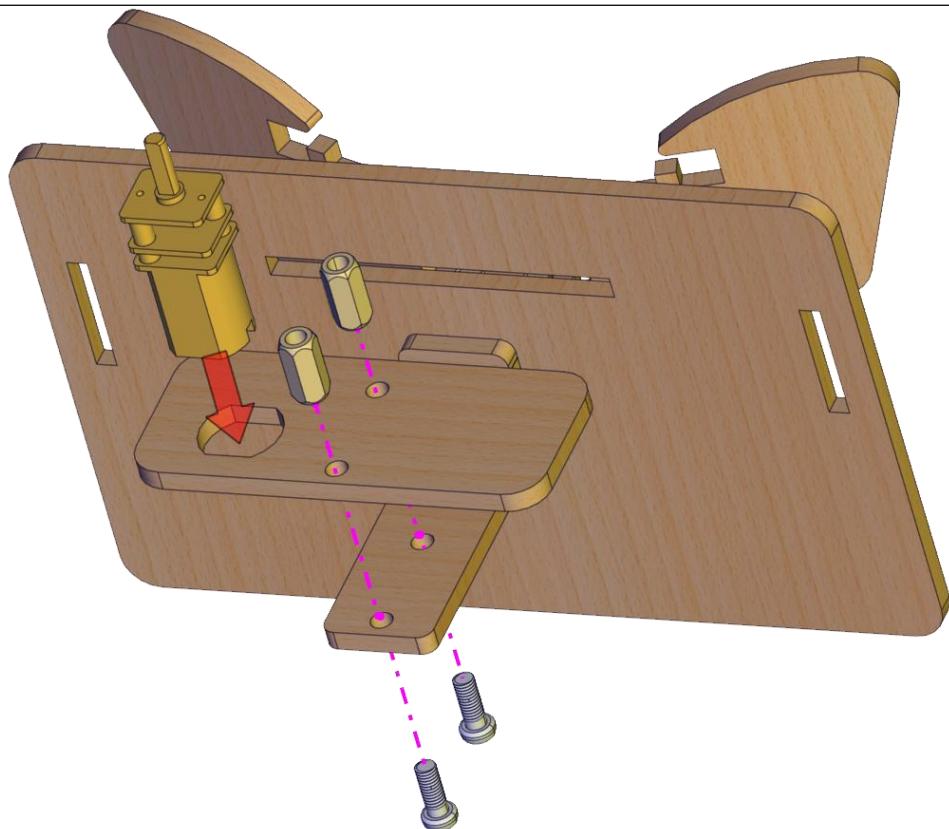


# Installation 31

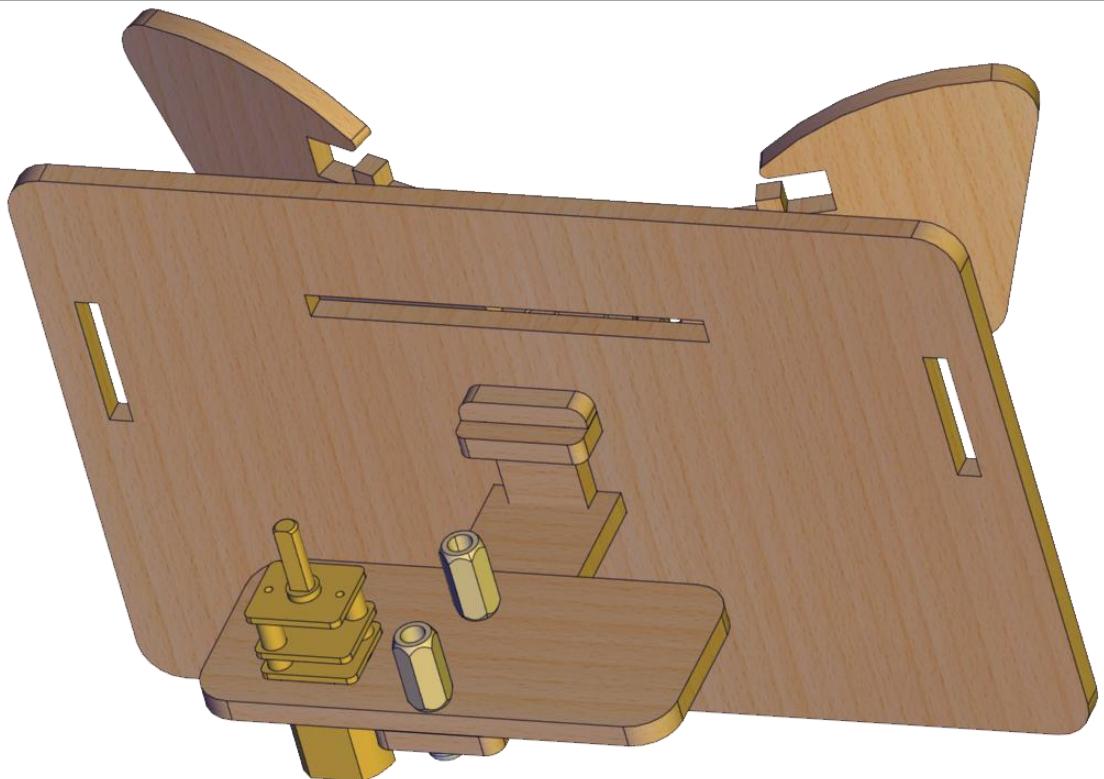
Installation  
on of  
required  
parts



Install

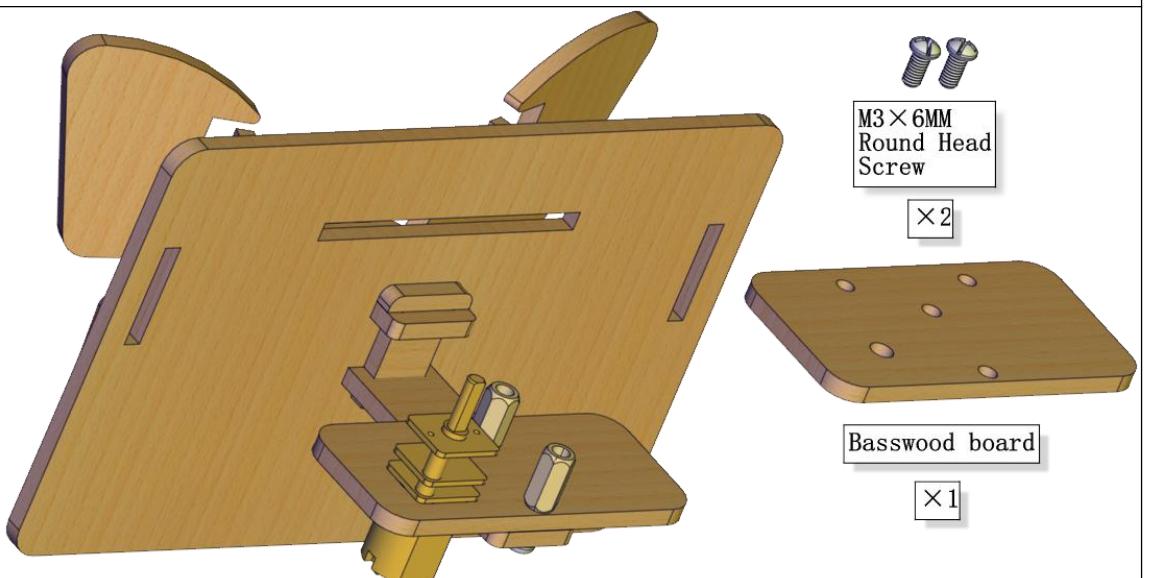


complete

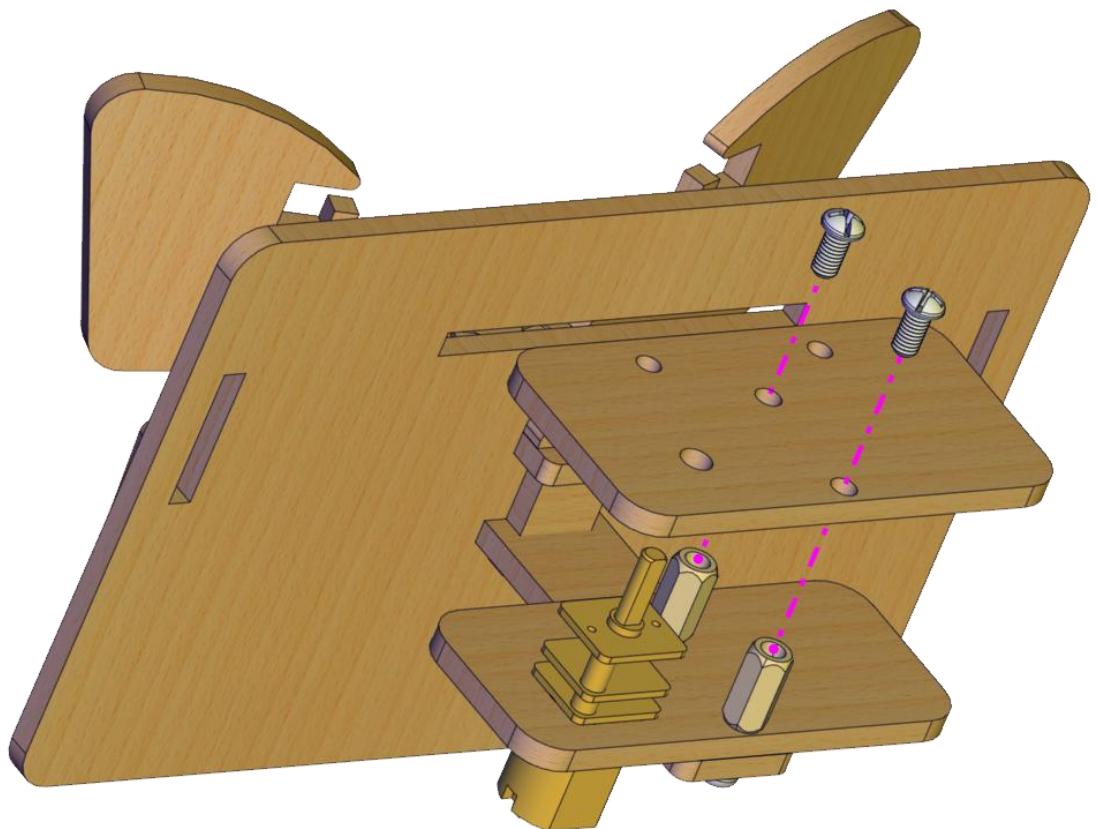


## Installation 32

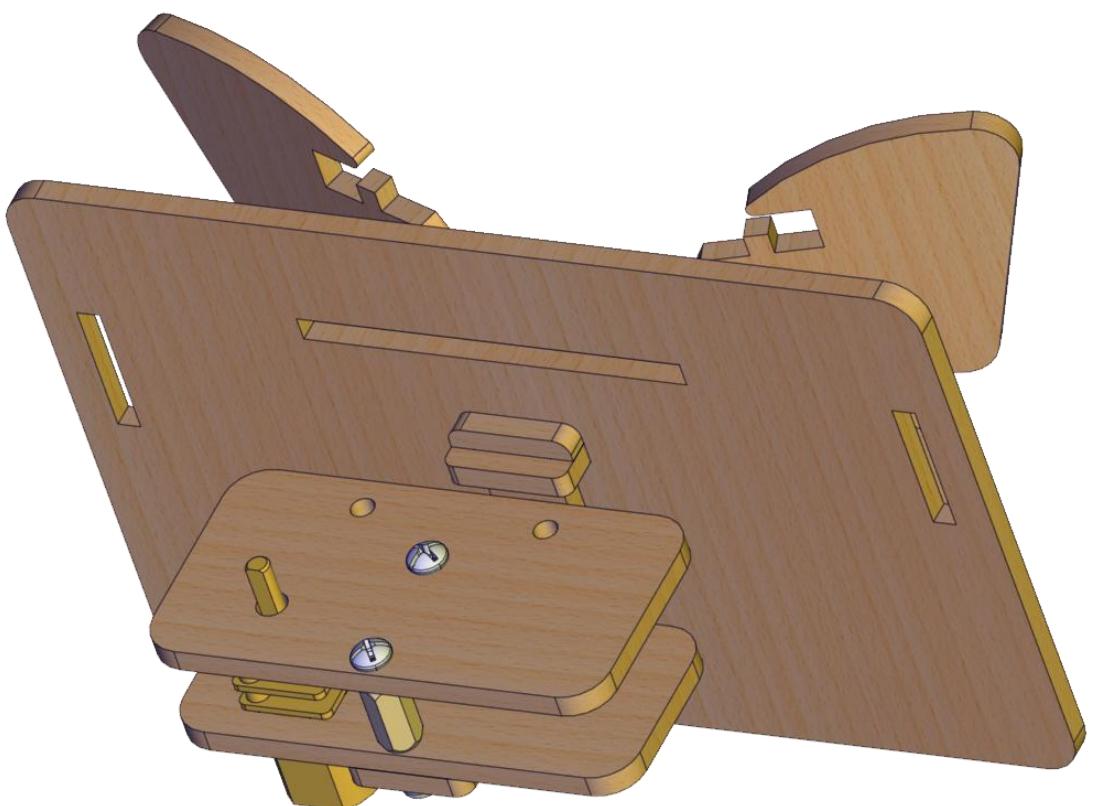
Installation  
of  
required  
parts



Install

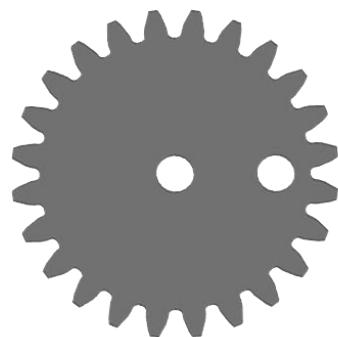


complete

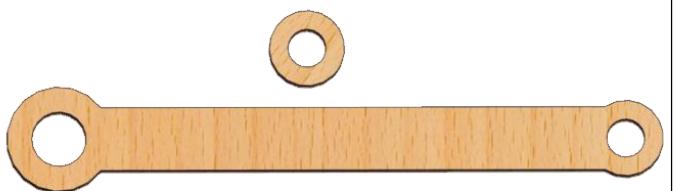


## Installation 33

Installation  
of  
required  
parts



Acrylic gear  
x1



Basswood board  
x2



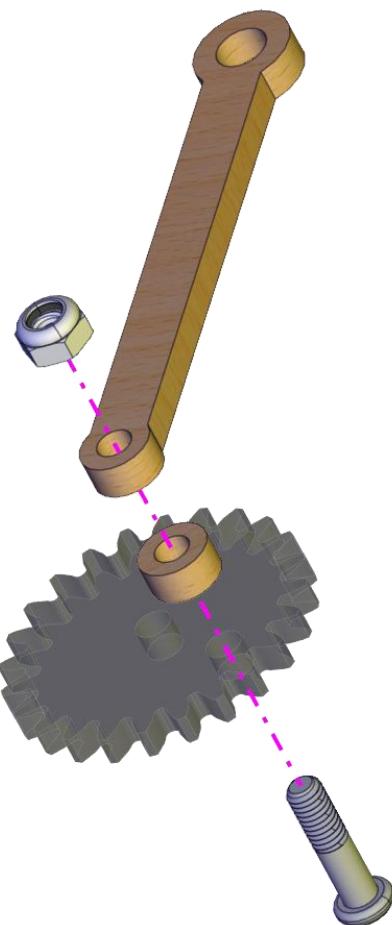
M3×12MM  
Half tooth  
Screw  
x1



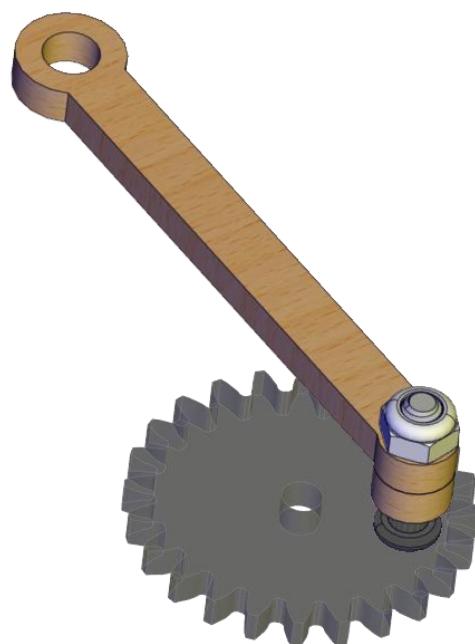
M3 Self-locking nut  
x1

## Install

(Note that  
the  
self-locking  
nut cannot  
be locked)

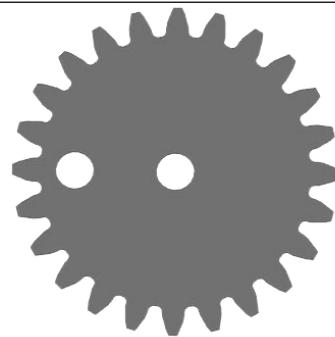


complete



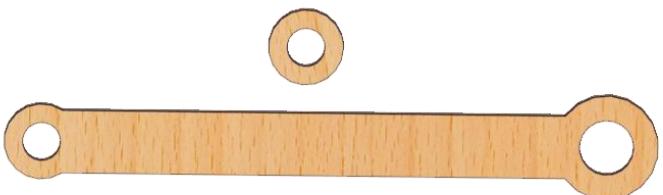
# Installation 34

Installation of required parts



Acrylic gear

×1



Basswood board

×2



M3 × 12MM  
Half tooth  
Screw

×1

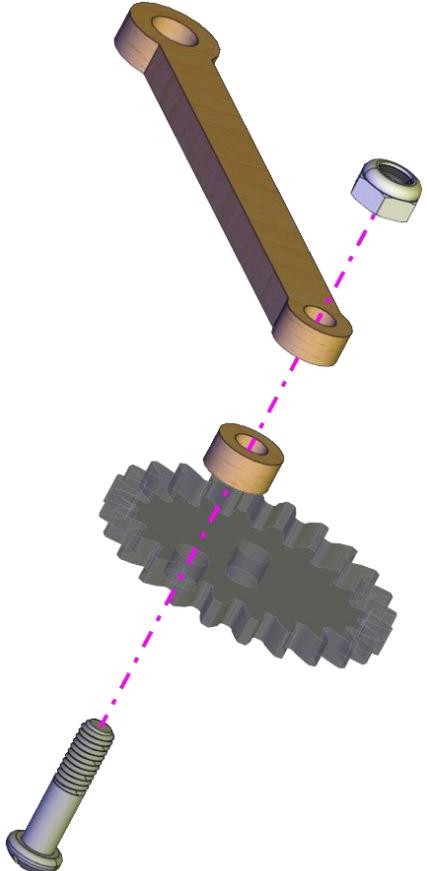


M3 Self-locking nut

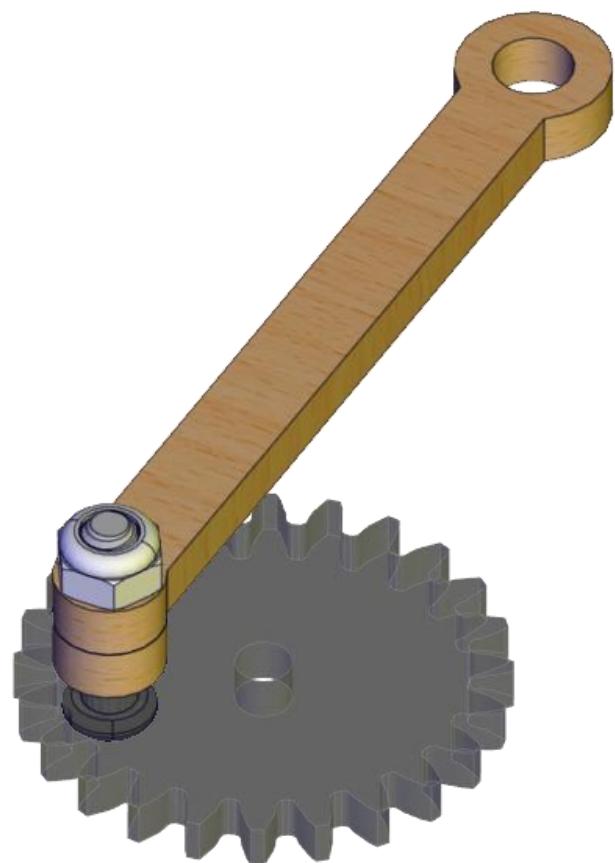
×1

Install

(Note that  
the  
self-locking  
nut cannot  
be locked)

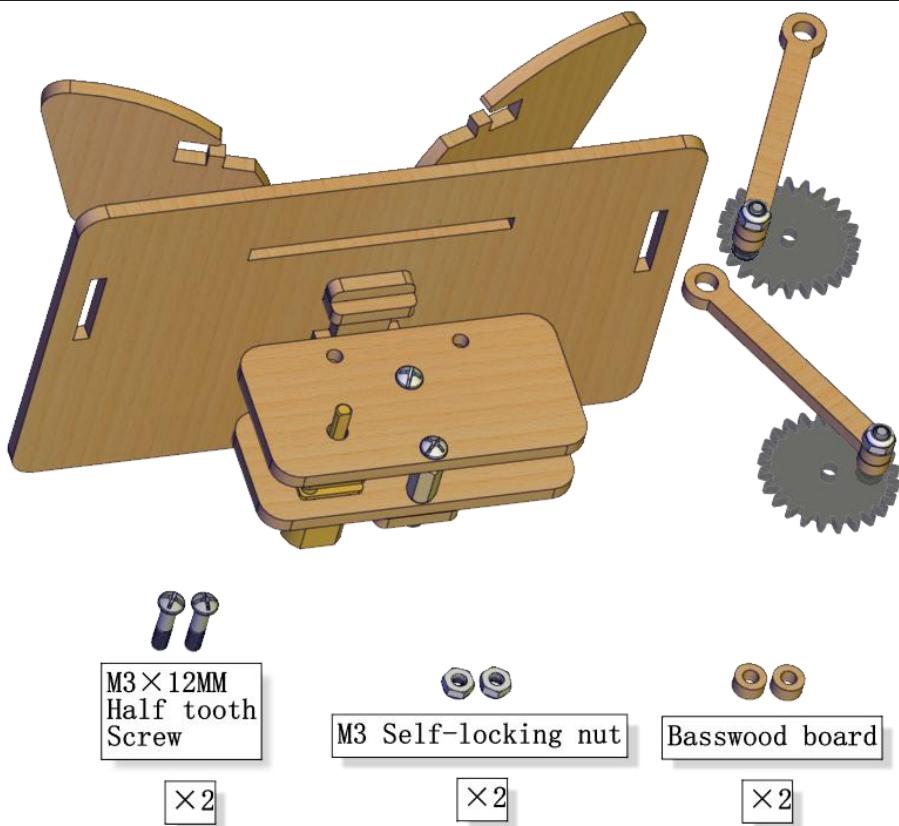


complete



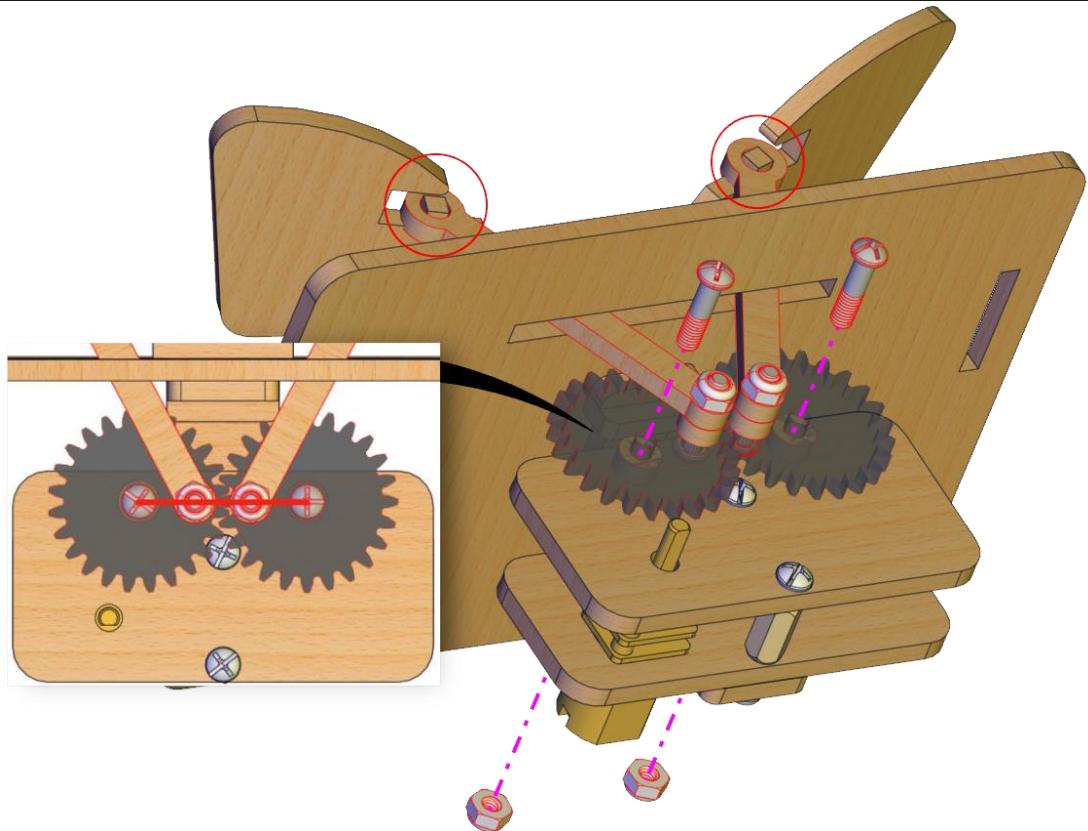
# Installation 35

Installation of required parts

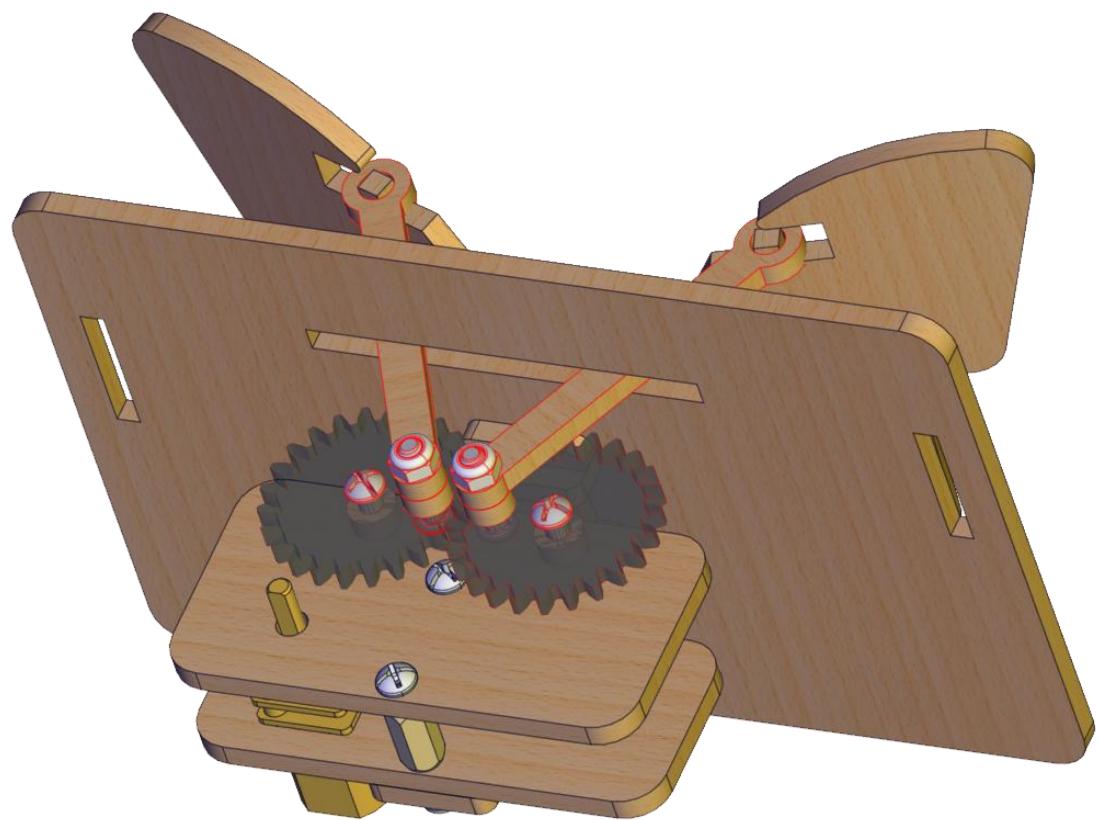


Install

(Note that the self-locking nut cannot be tightened, and the gear installation Angle should be consistent with that shown in the figure)

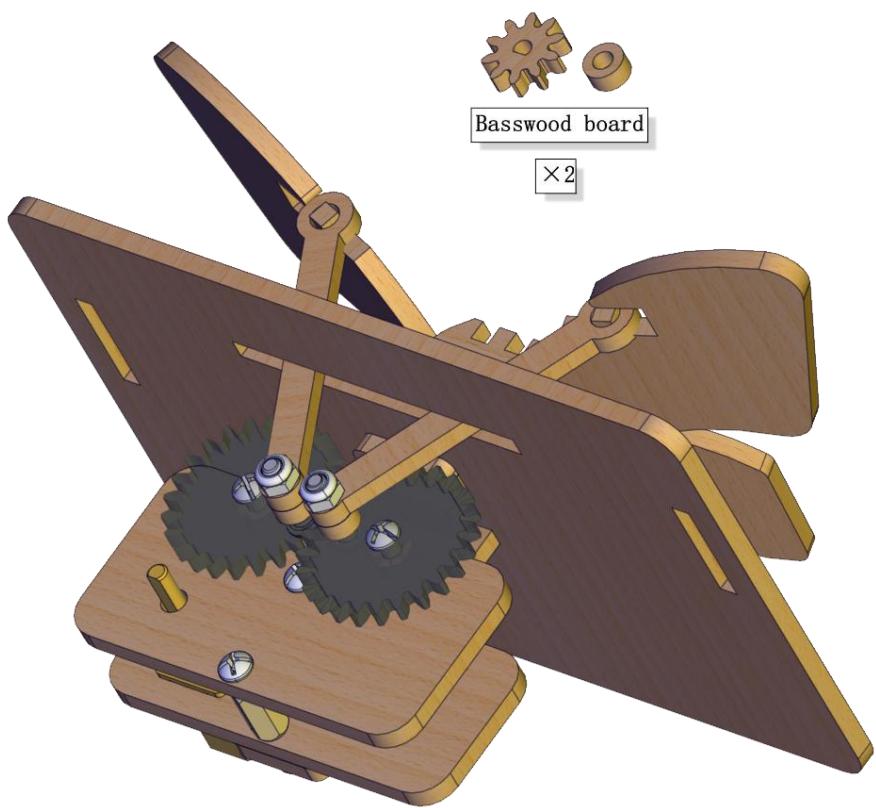


complete

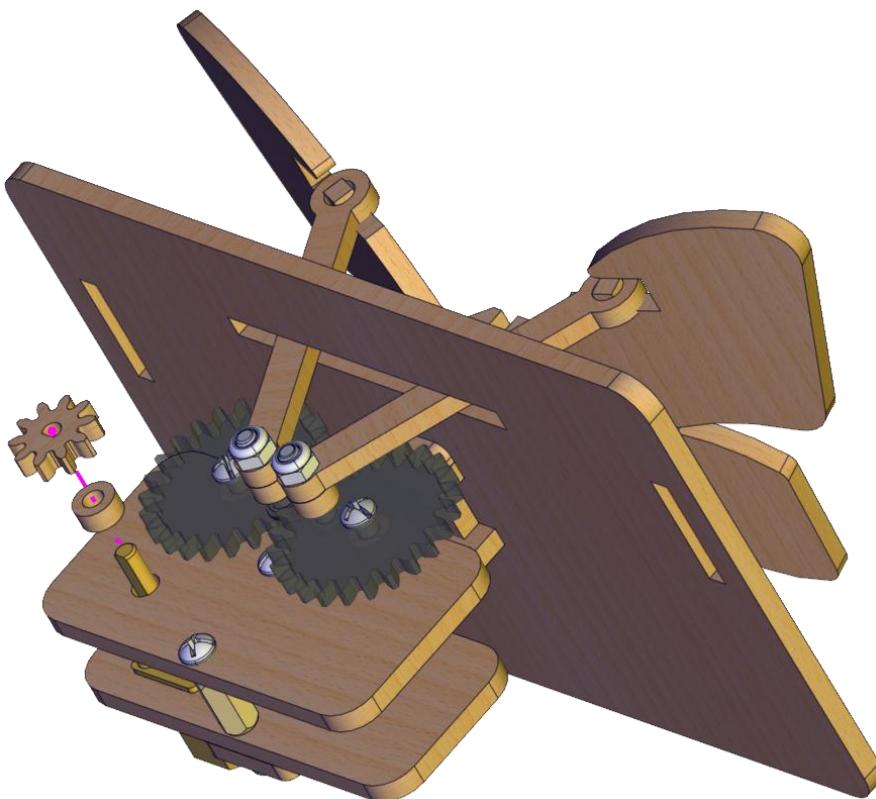


# Installation 36

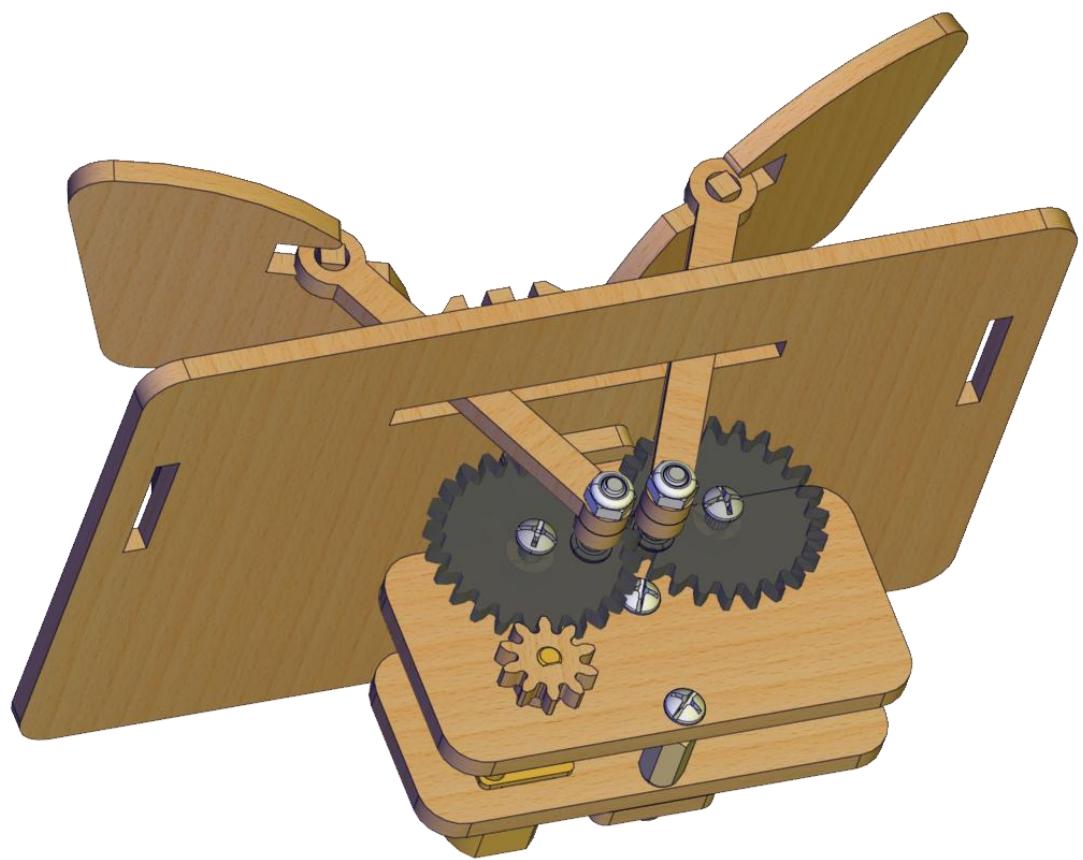
Installation of required parts



Install

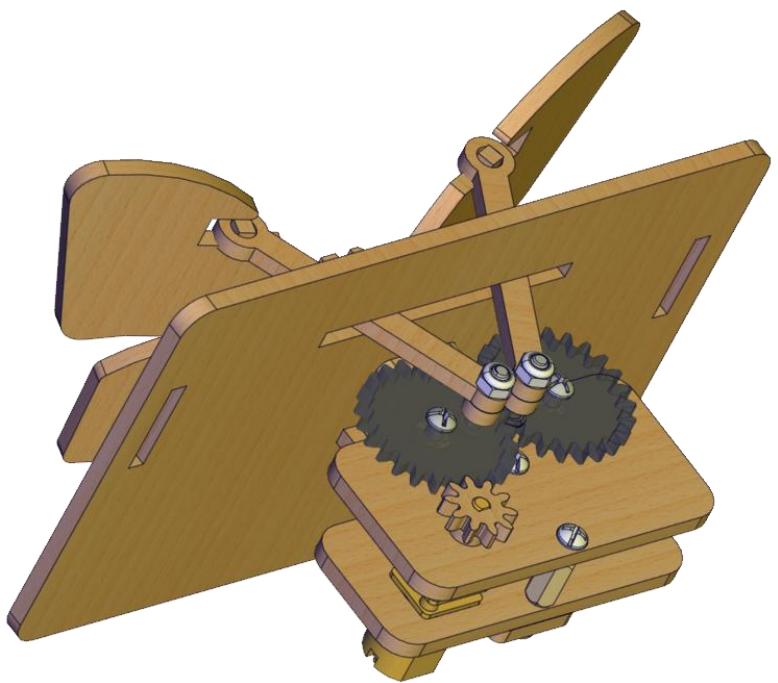


complete



## Installation 37

Installation  
of  
required  
parts



Basswood board

×1

Install

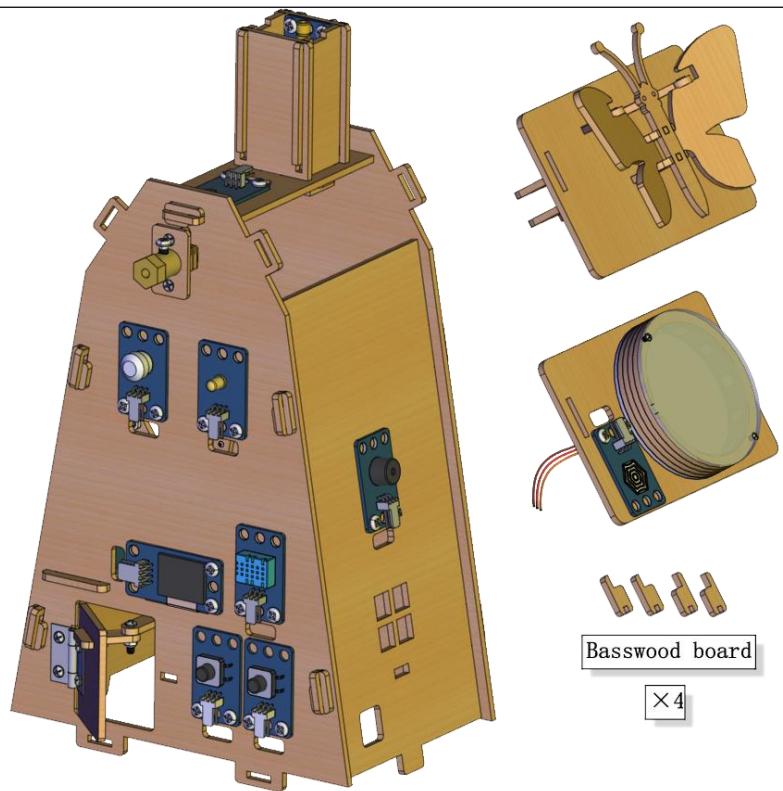


complete

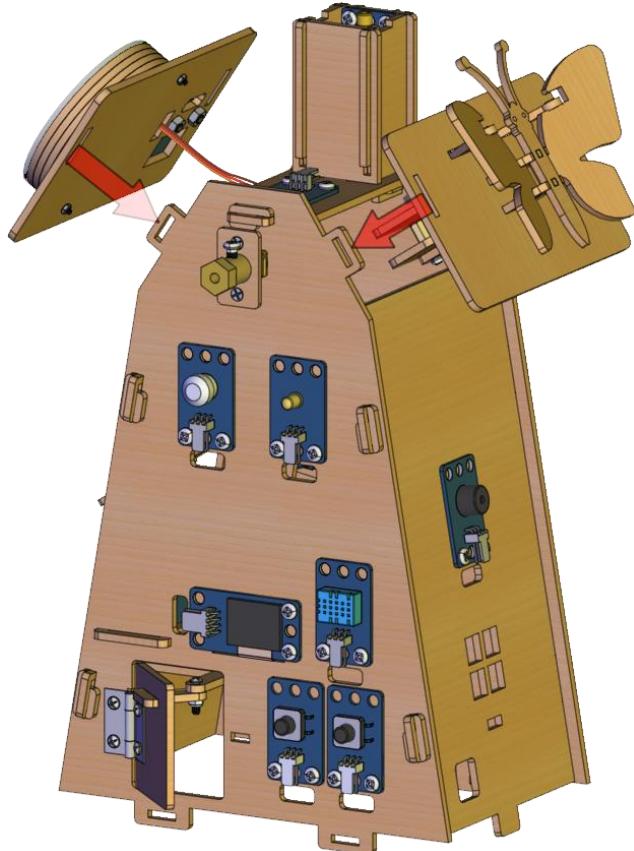


## Installation 38

Installation  
of  
required  
parts

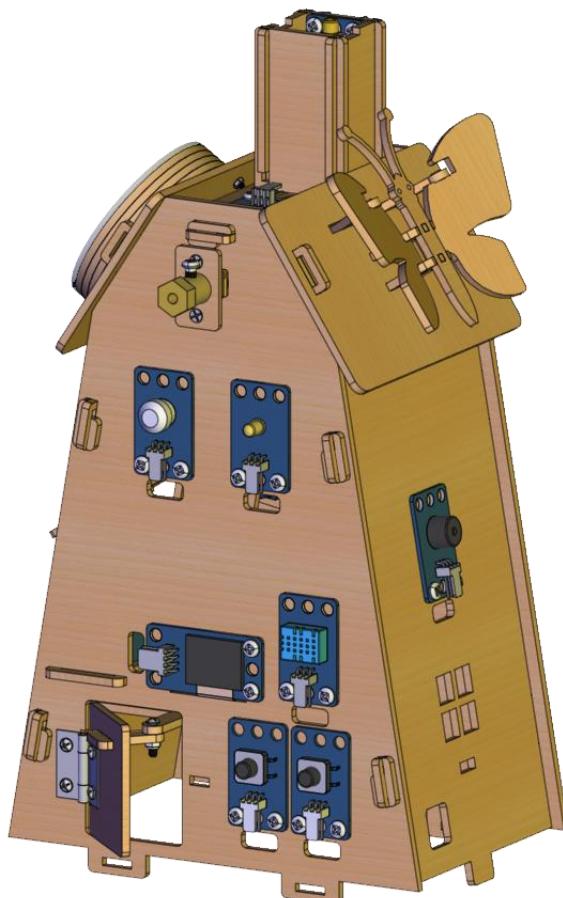


Step 1

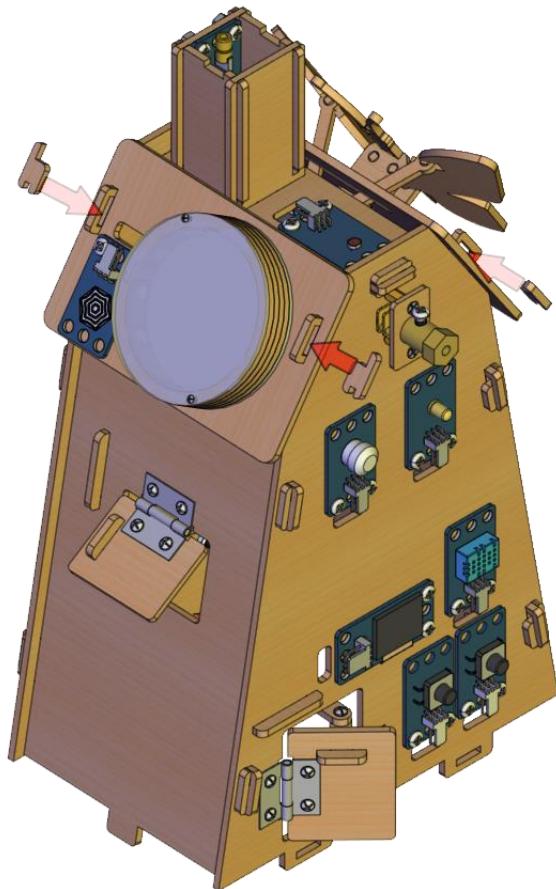


## Step 1

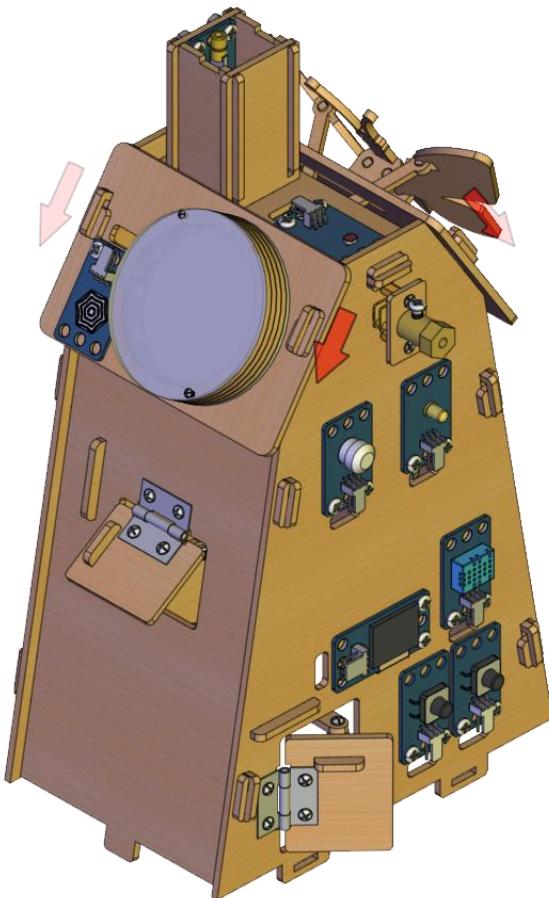
complete



## Step 2



complete



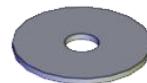
## Installation 39

Installation  
of  
required  
parts



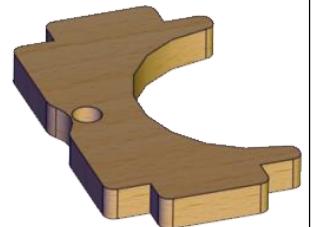
3mm optical axis

$\times 1$



DOE

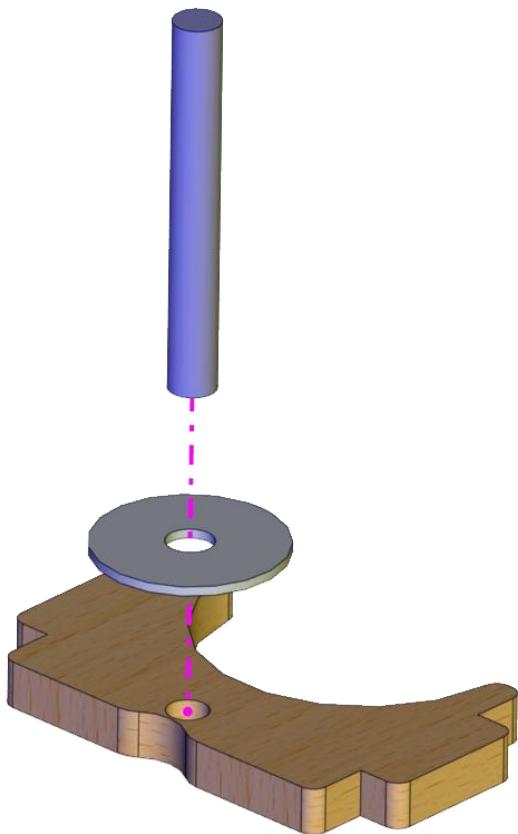
$\times 1$



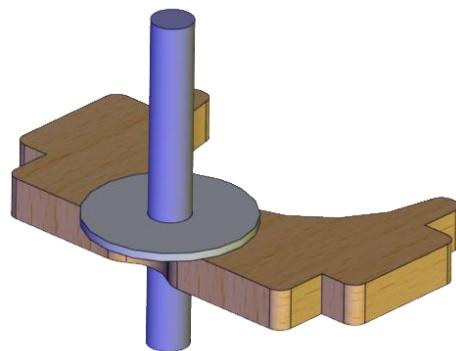
Basswood board

$\times 1$

Install

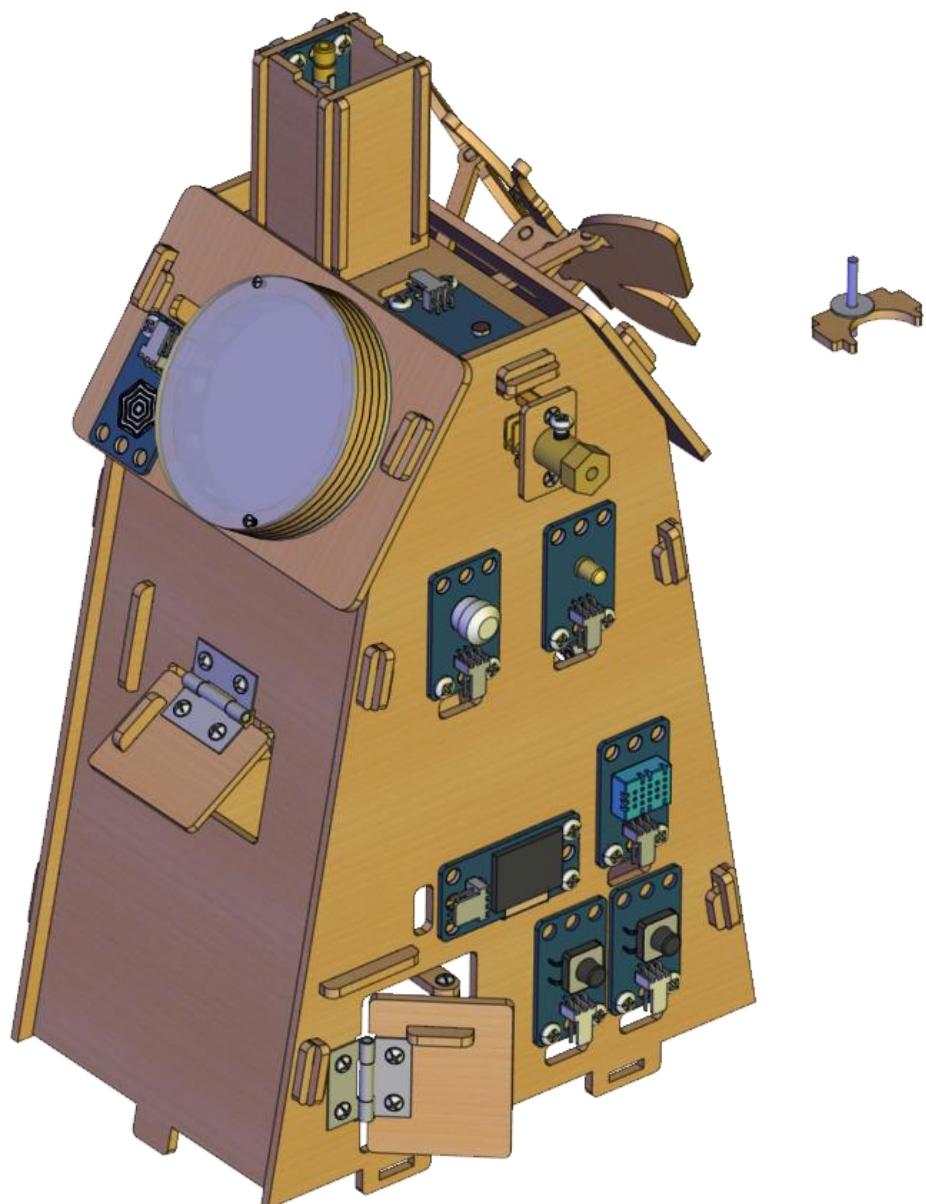


complete

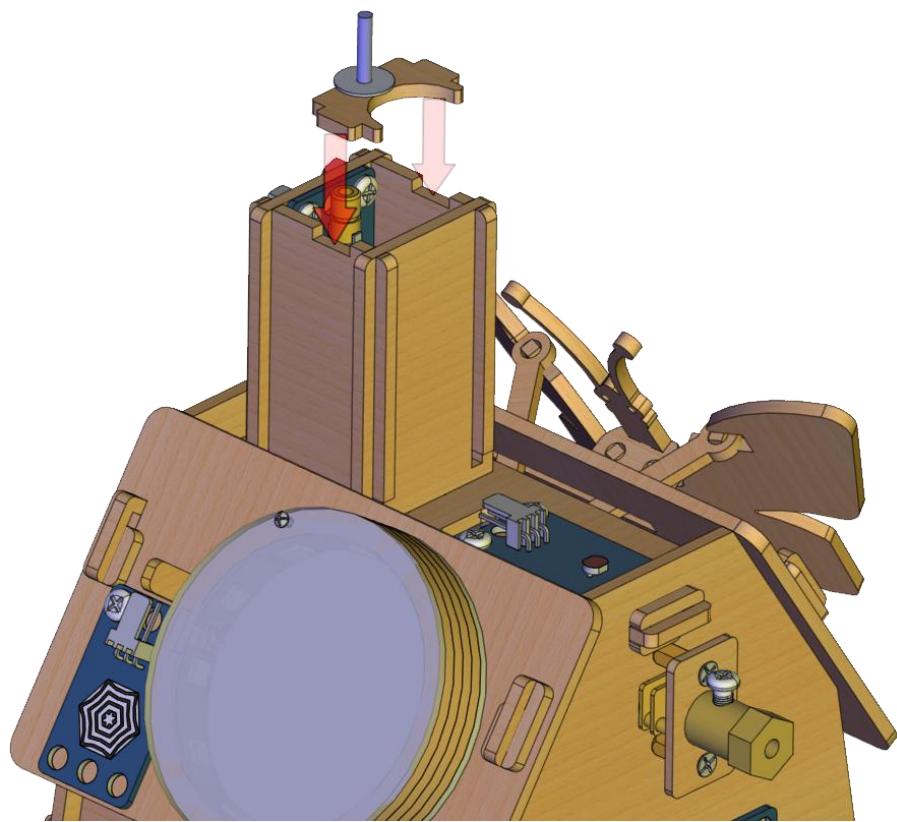


## Installation 40

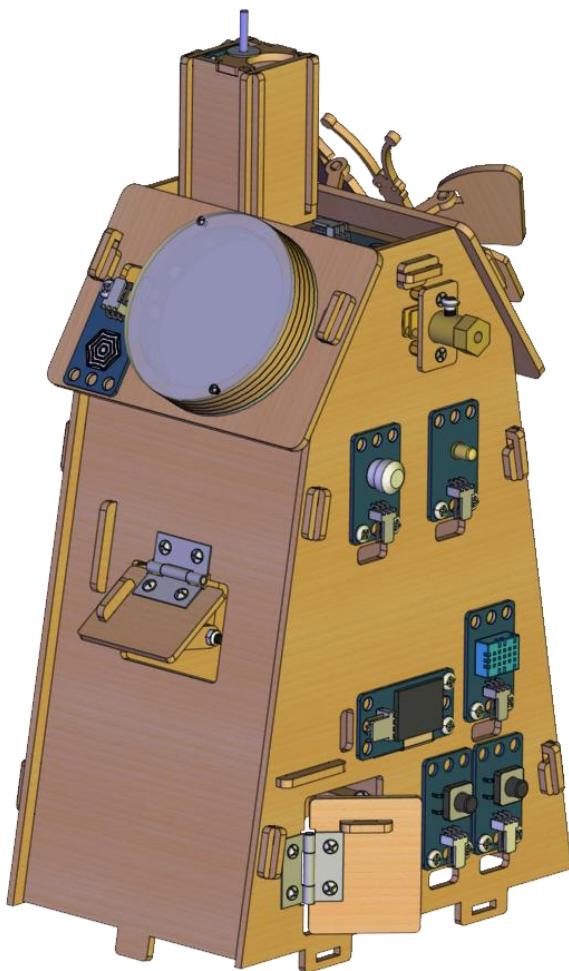
Installation  
of  
required  
parts



Install

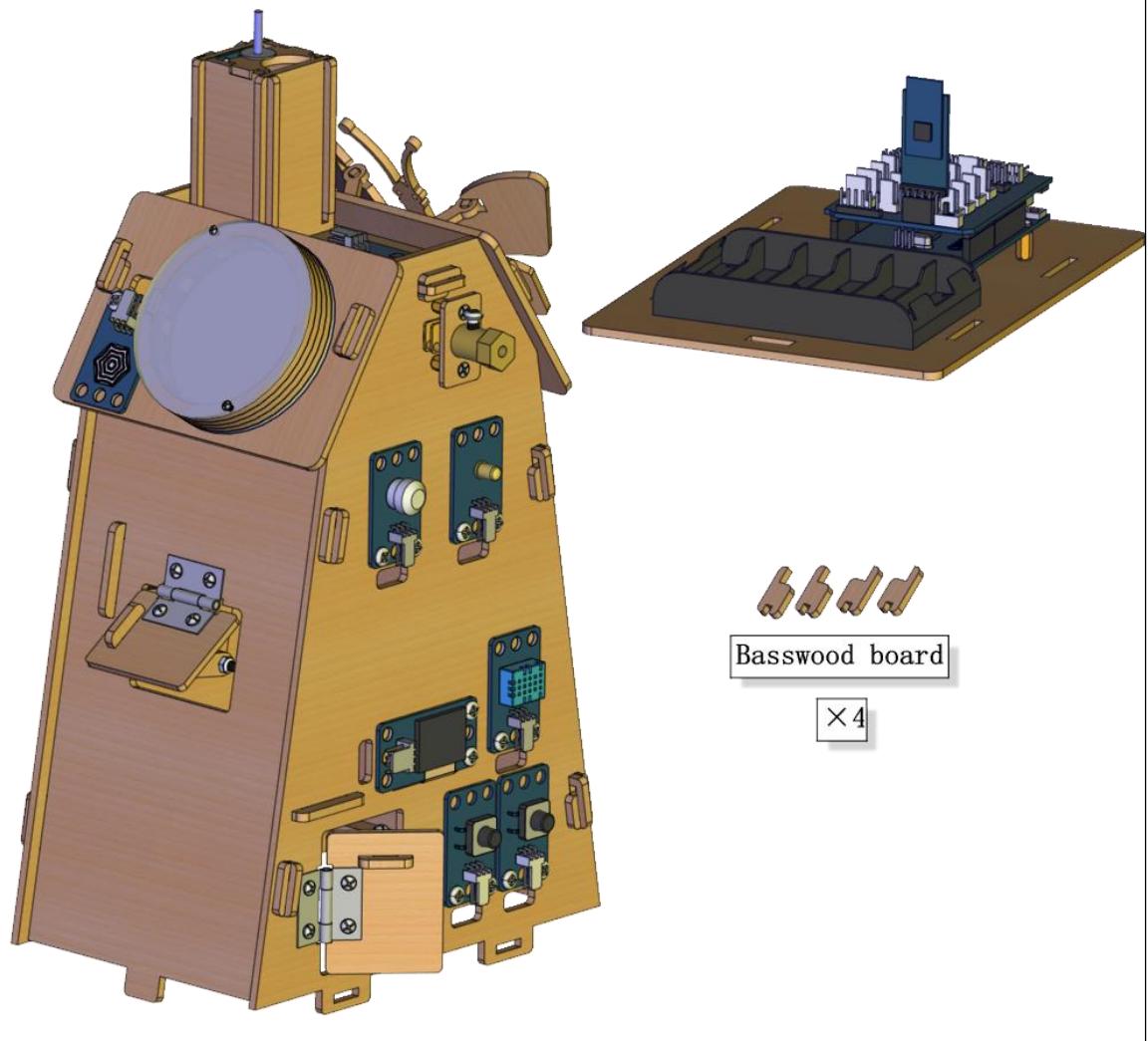


complete

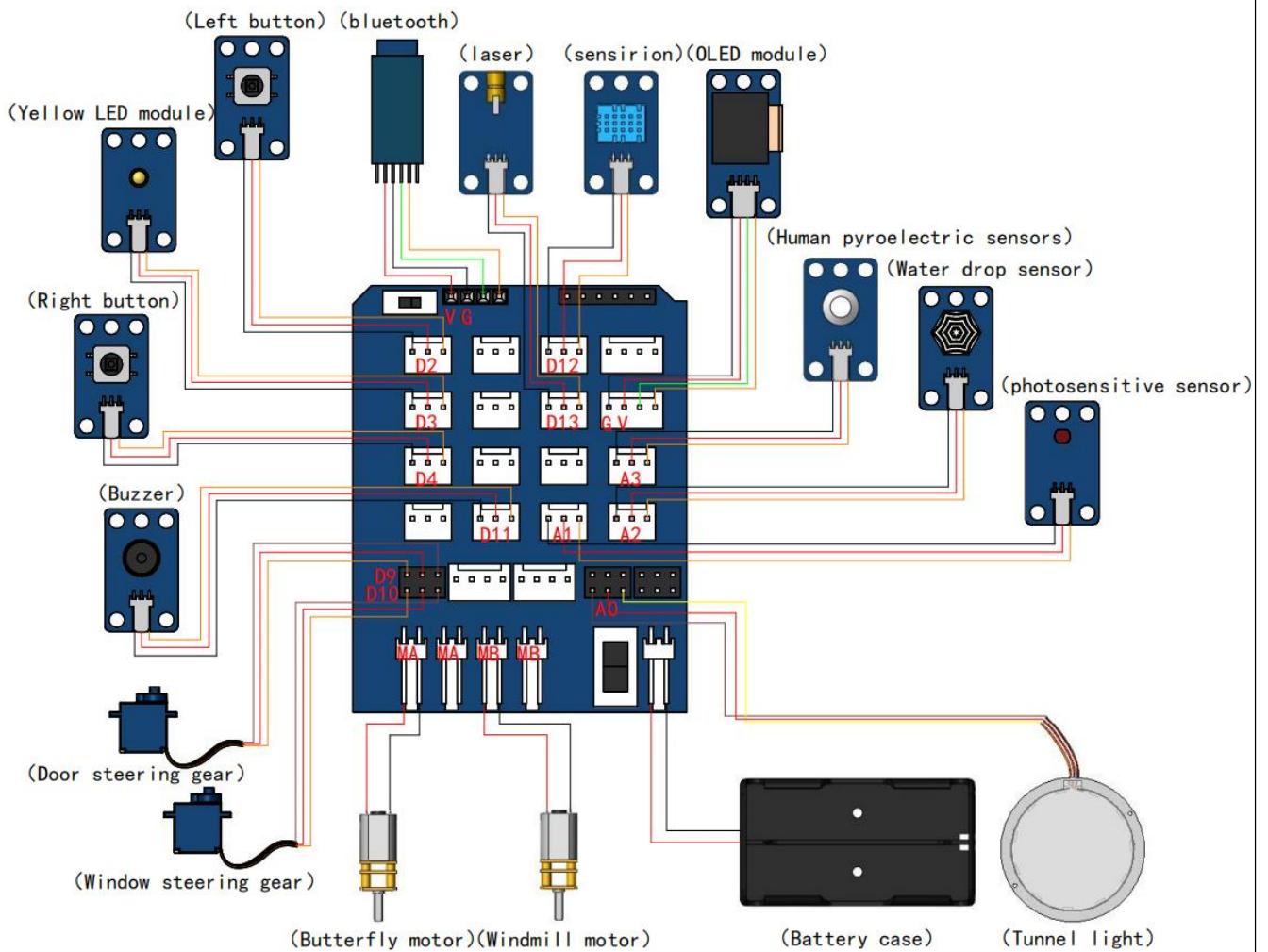


## Installation 41

Installation  
of  
required  
parts



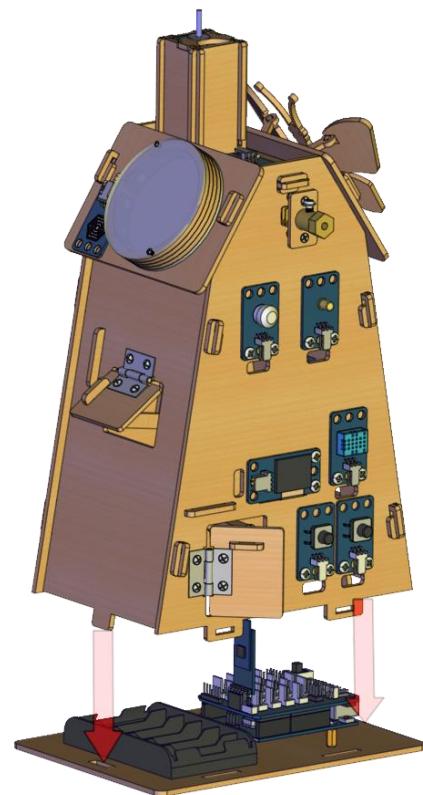
# Connect all the wires before installation



## Note:

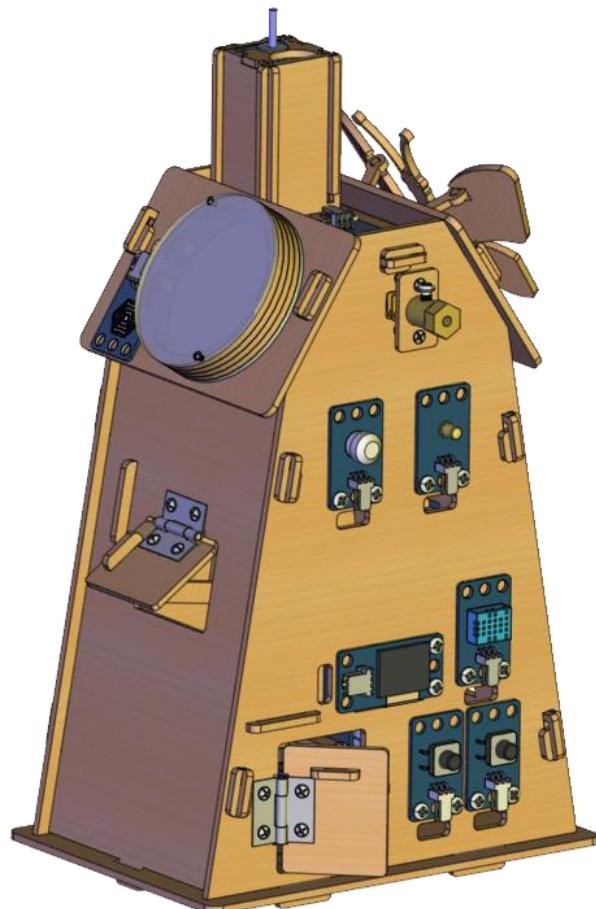
- doors and Windows of steering gear connection, line color corresponding interface of above;
- tunnel connection also must pay attention to the line color of mirror corresponding interface is the same as above.
- The butterfly and the windmill are connected to the motor wire last, because the motor wire is easy to break, so be careful.

Step 1

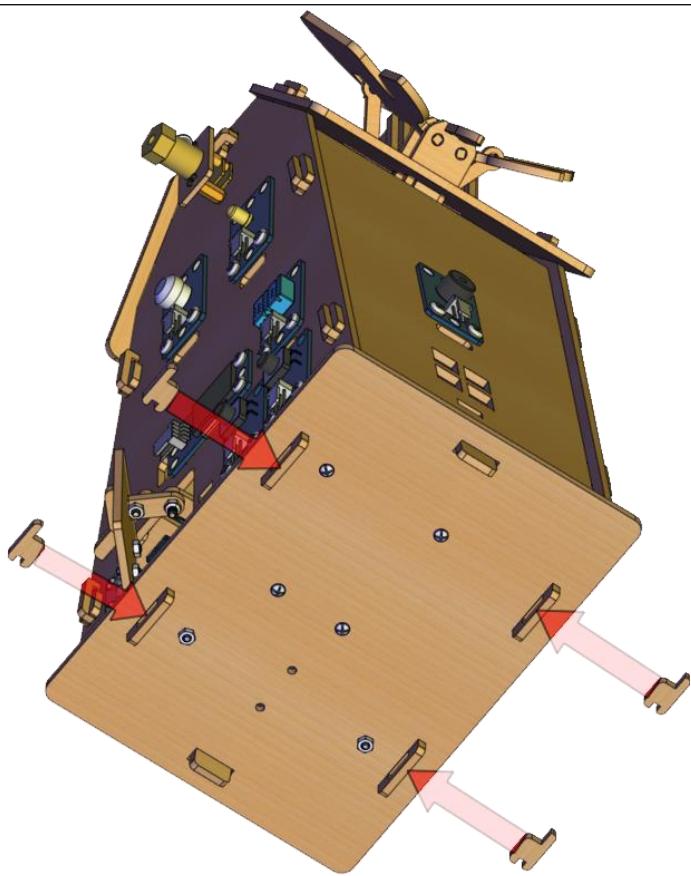


Step 1

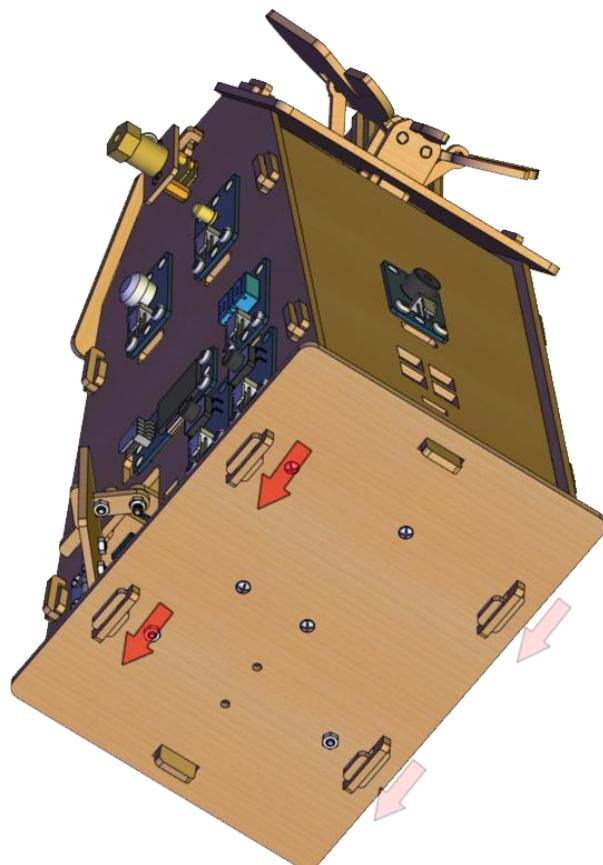
complete



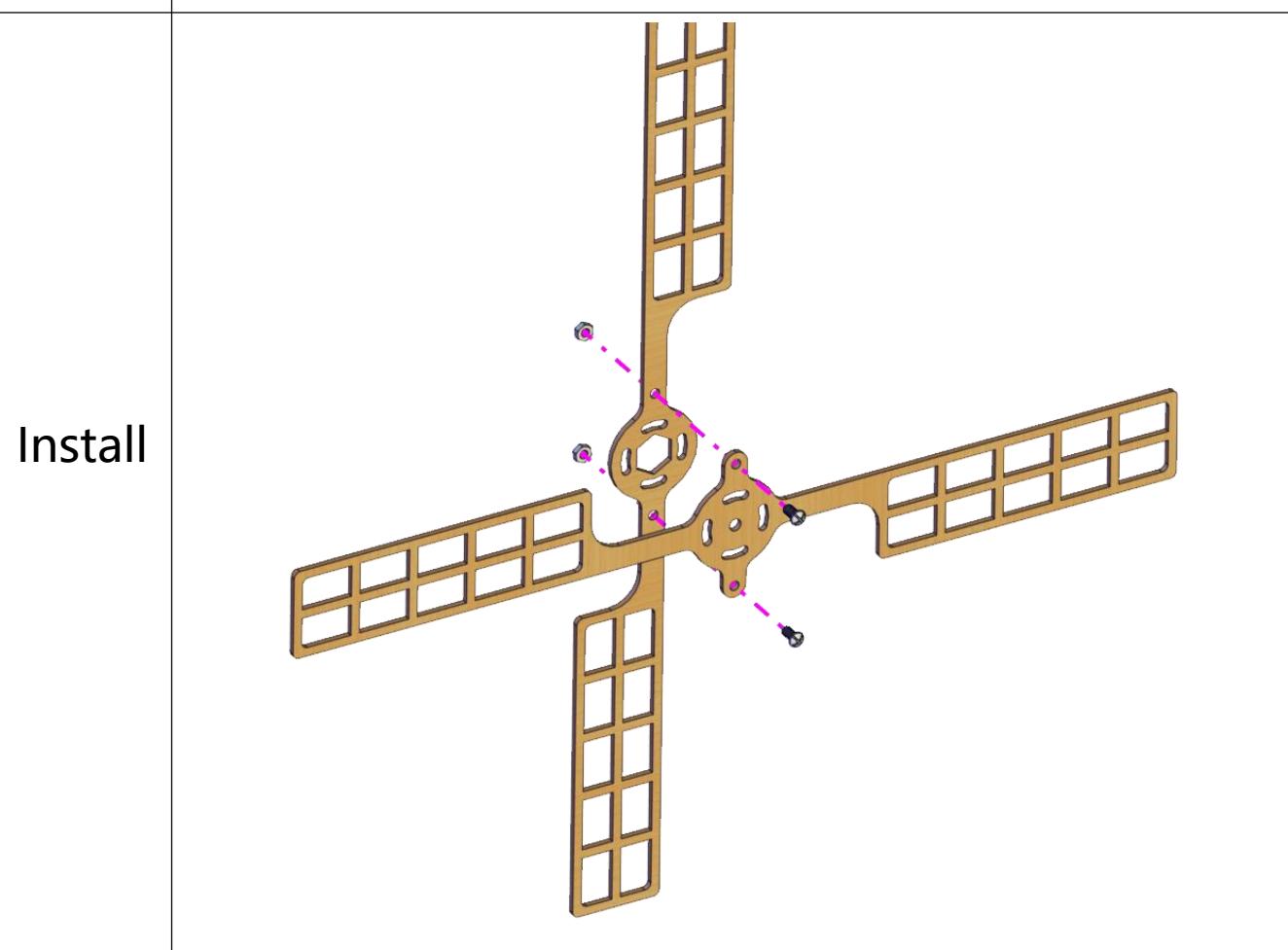
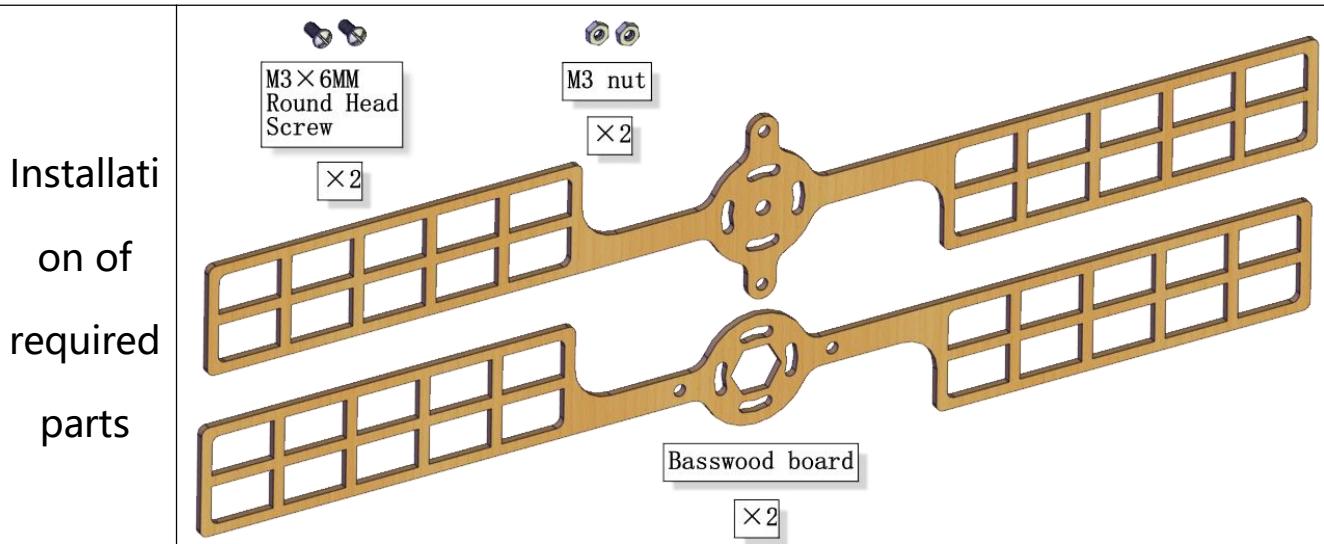
Step 2



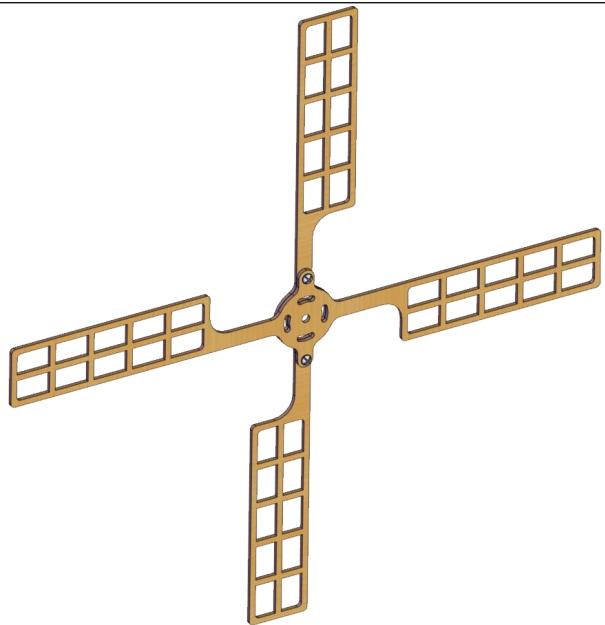
complete



## Installation 42

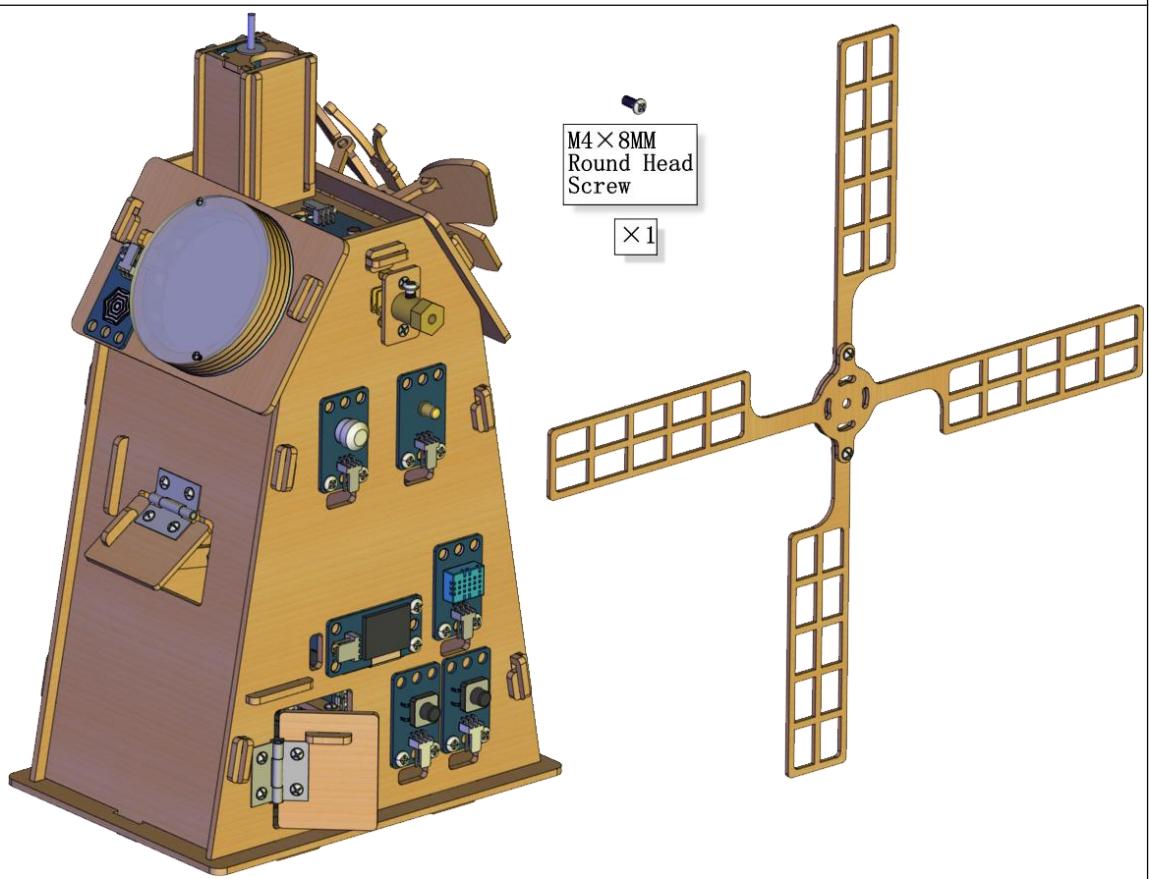


complete

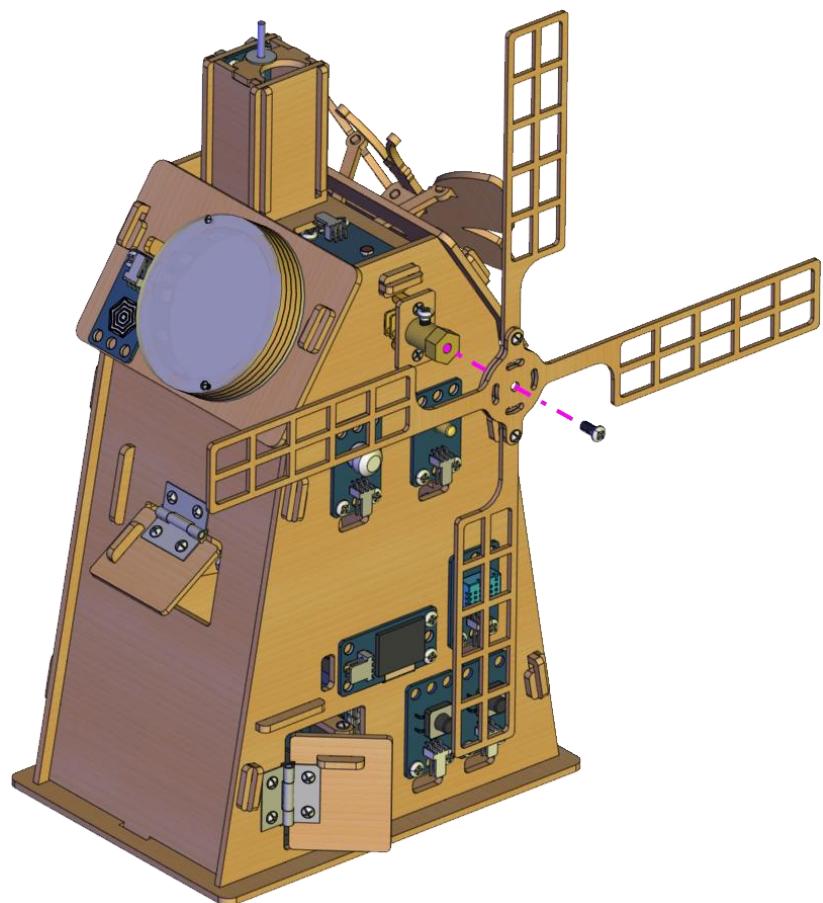


## Installation 43

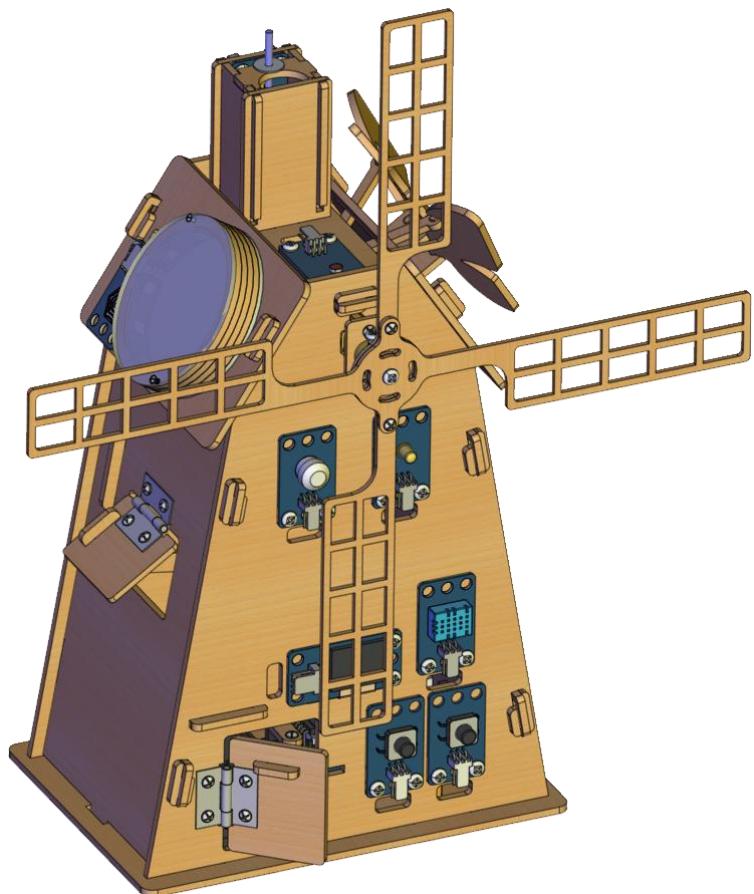
Installation  
of  
required  
parts



Install

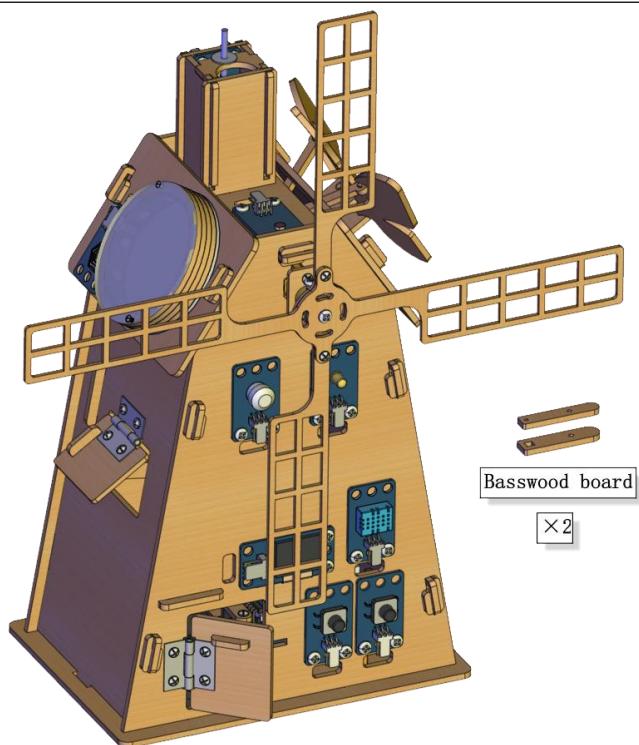


complete



# Installation 44

Installation  
on of  
required  
parts



Install  
(The switch  
needs to be  
buckled in  
the  
correspondin  
g hole  
position)



complete

