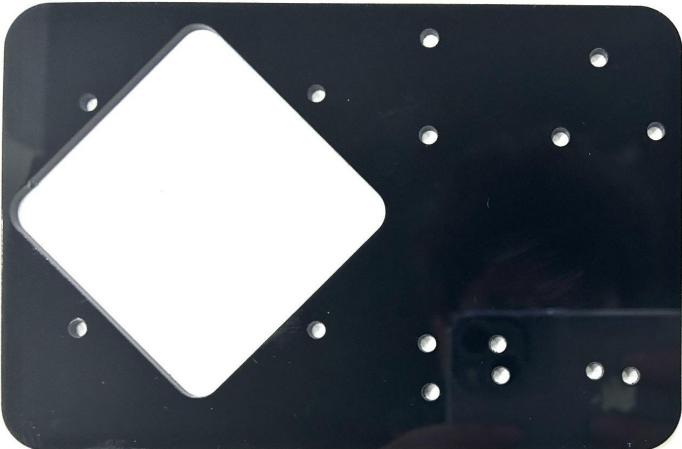
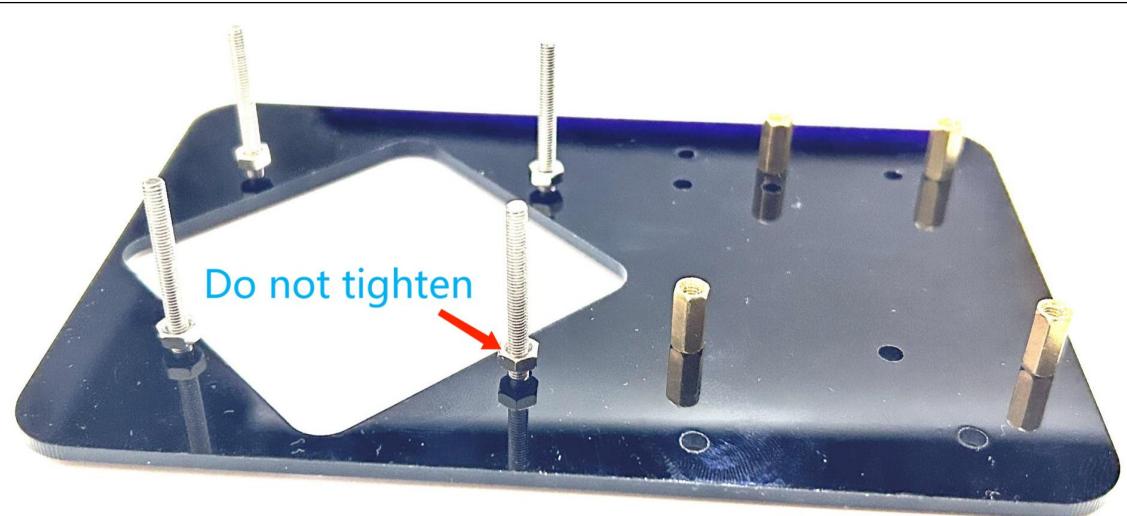
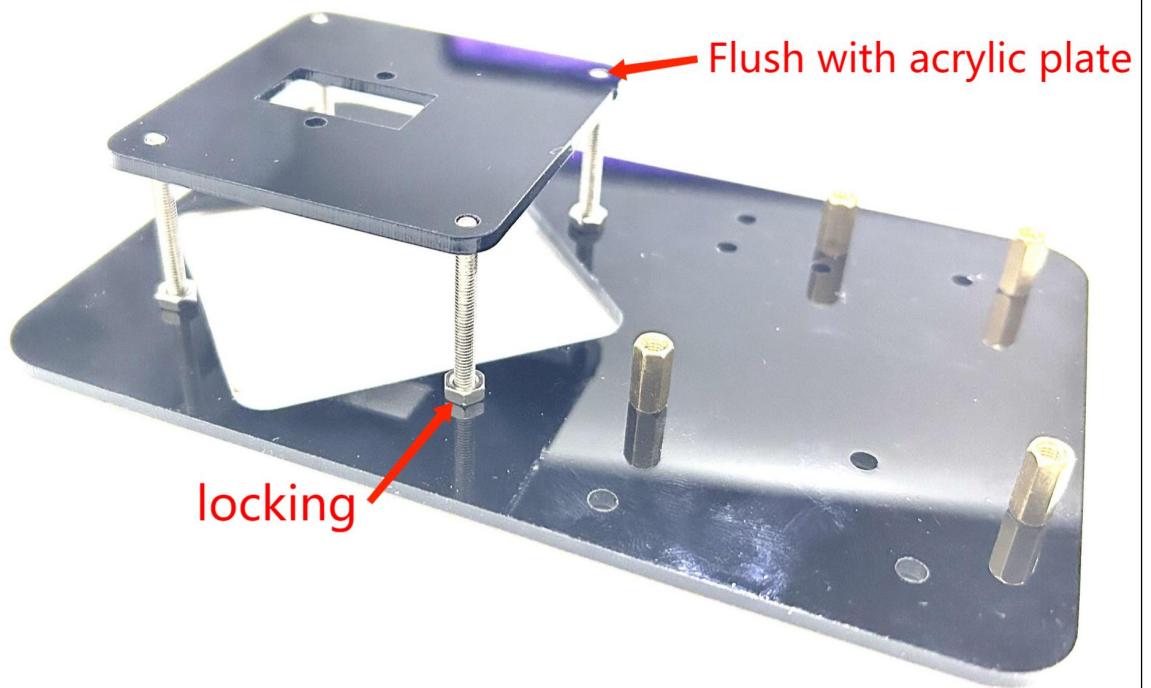


Installation Steps

Installation 1

| | |
|---------------|---|
| Prepare parts |      |
| 1 |  |

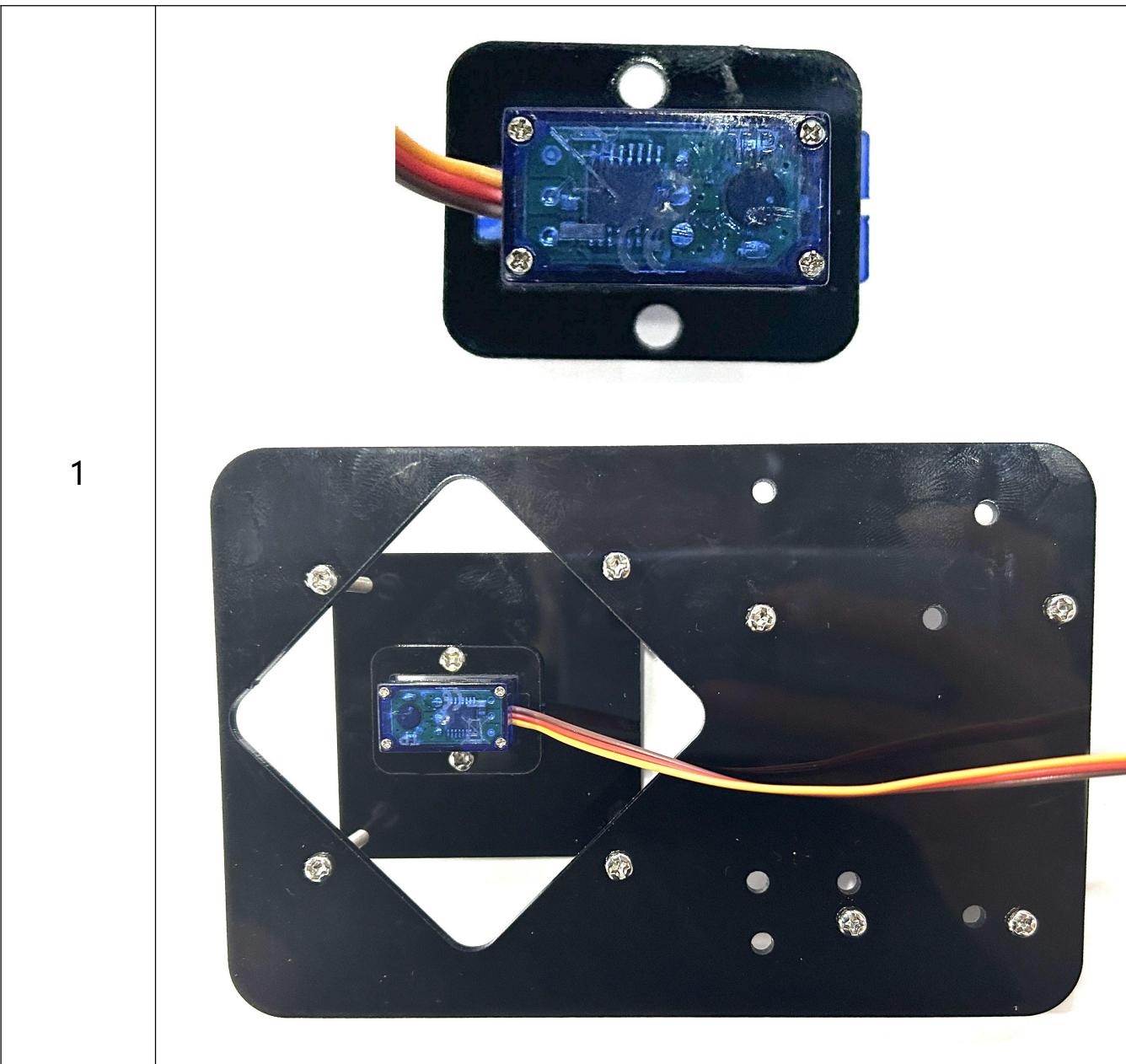
2



Installation 2

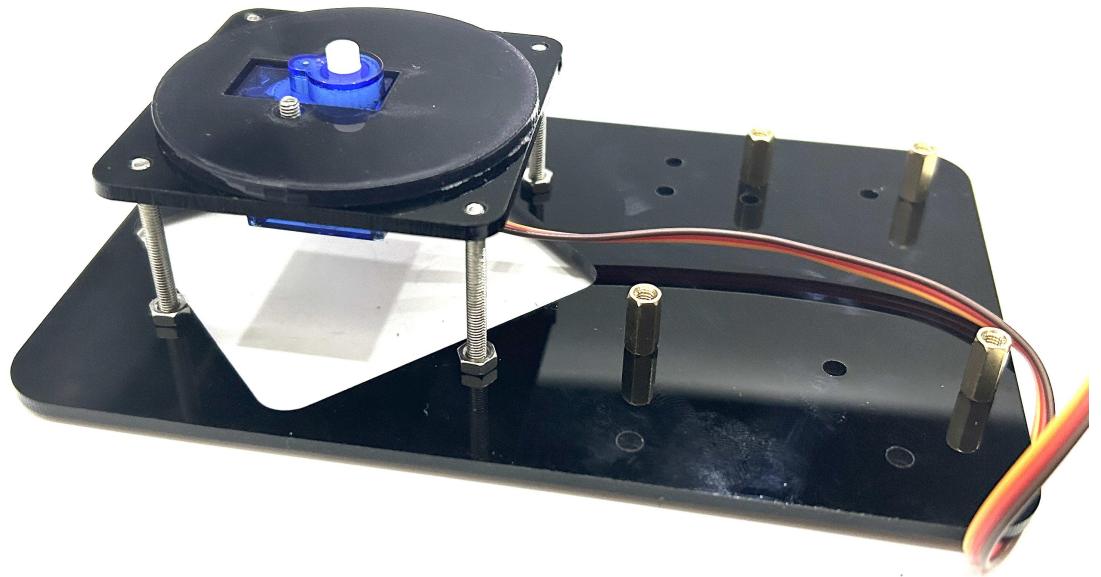
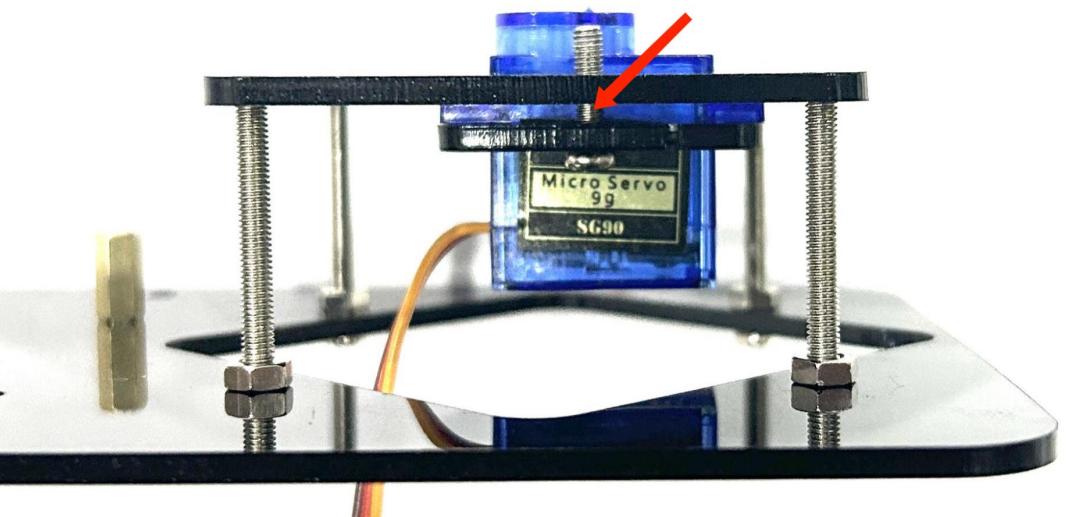
Prepare
parts





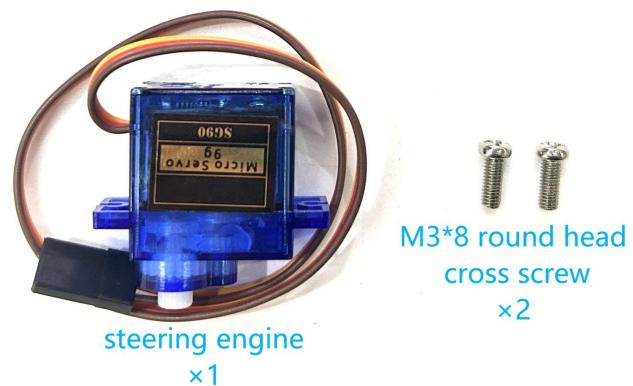
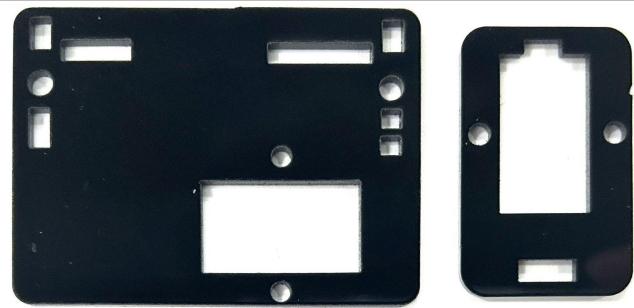
Do not tighten it too tightly, it is easy to break.

2



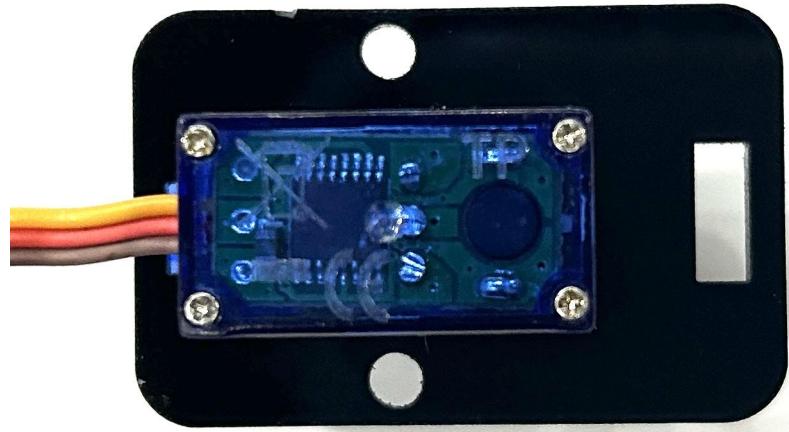
Installation 3

Prepare
parts



steering engine
x1

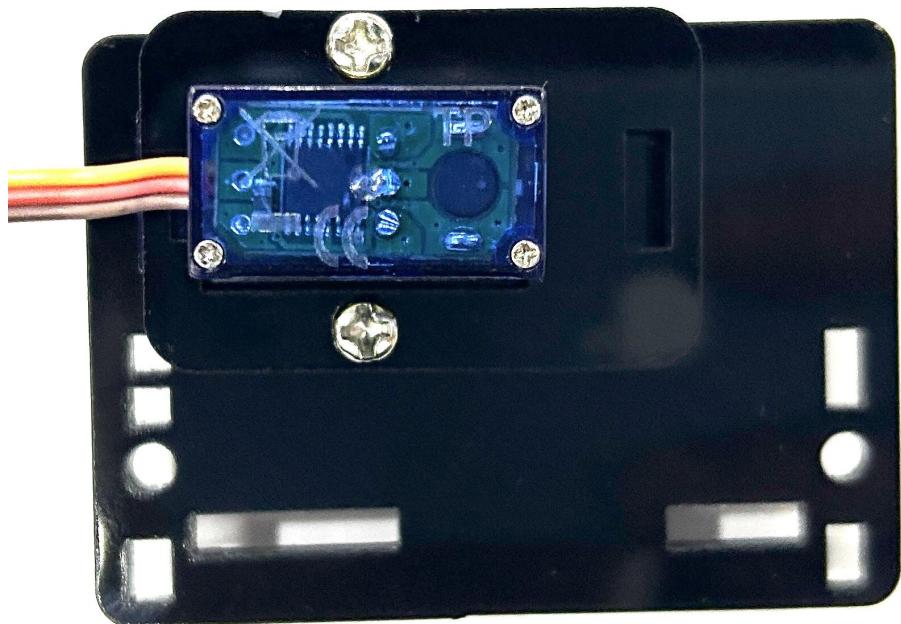
1



Do not tighten it too tightly, it is easy to break.

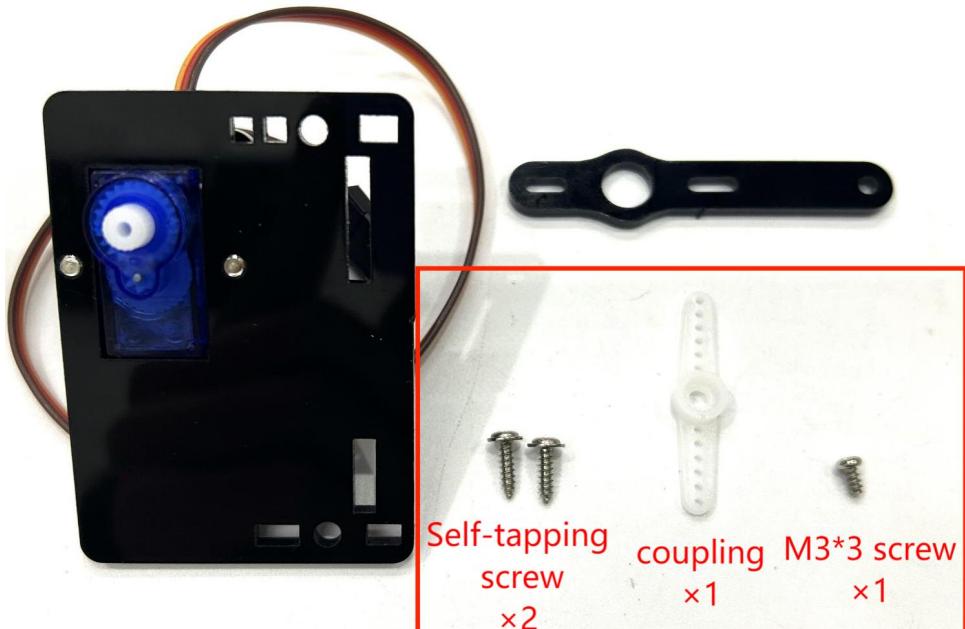


2



Installation 4

Prepare parts



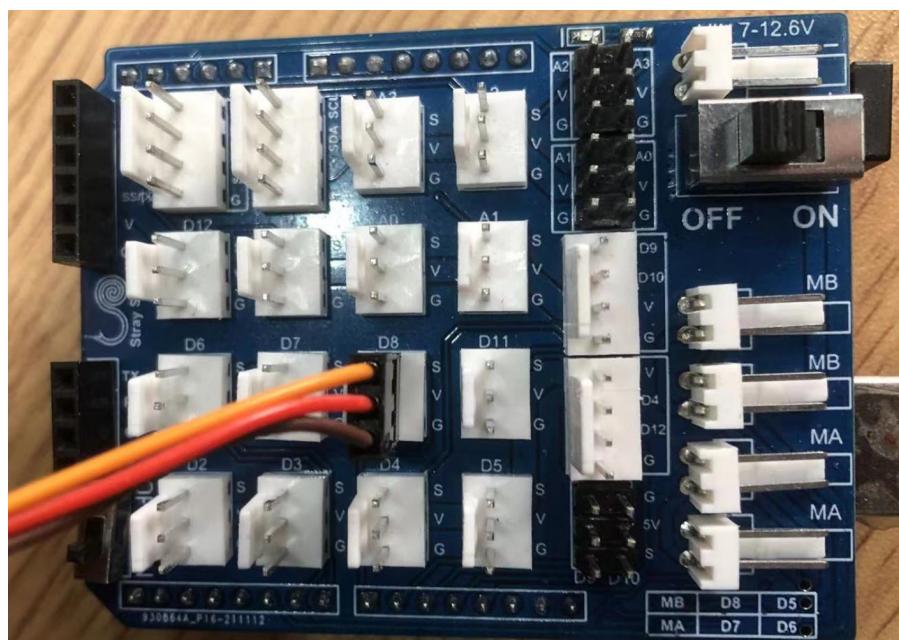
In the steering engine package

1



Adjust the steering engine to 90 °

Connect the steering gear wire to the D8 terminal of the expansion plate. Note that the color order of the wire corresponds to the following figure:



The following is the program to control the steering gear to 90 degrees, please copy it to the Arduino IDE and upload the program:

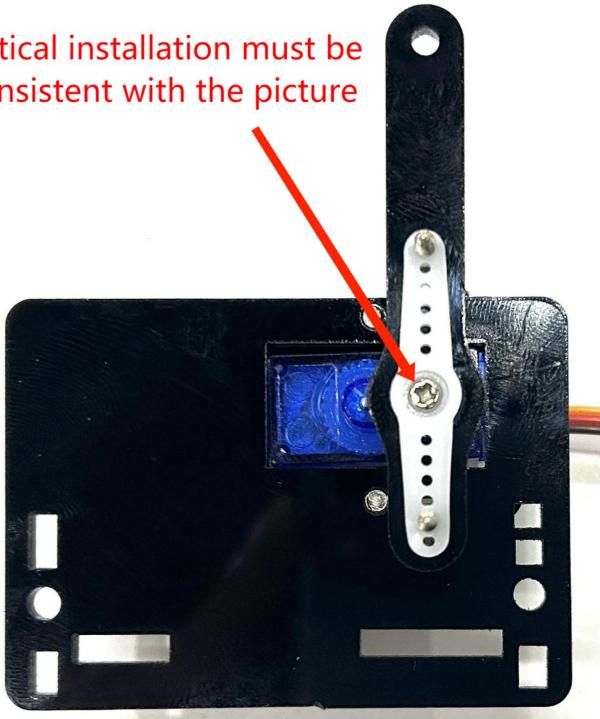
```
#include <Servo.h>
Servo myservo; // create servo object to control a servo

void setup() {
    myservo.attach(8); // attaches the servo on pin 8 to the servo object
}

void loop() {
    myservo.write(90); //Turn it to 90 degrees
}
```

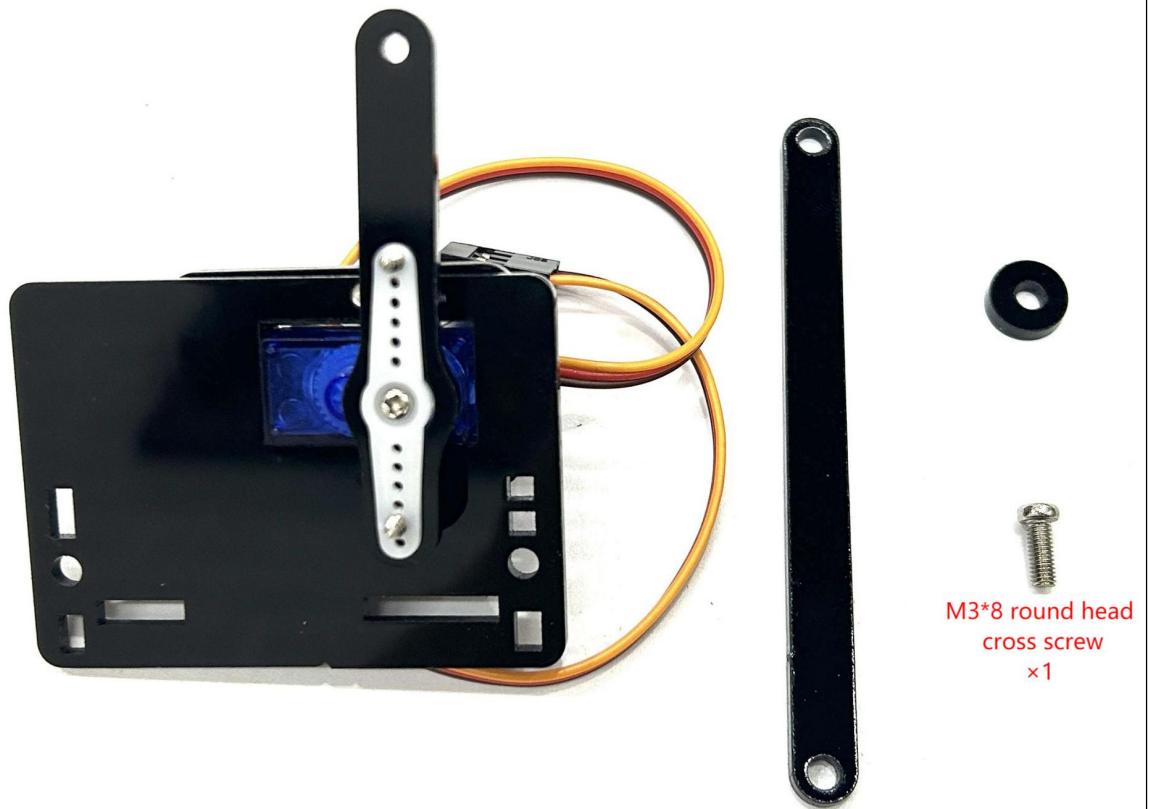
2

Vertical installation must be
consistent with the picture

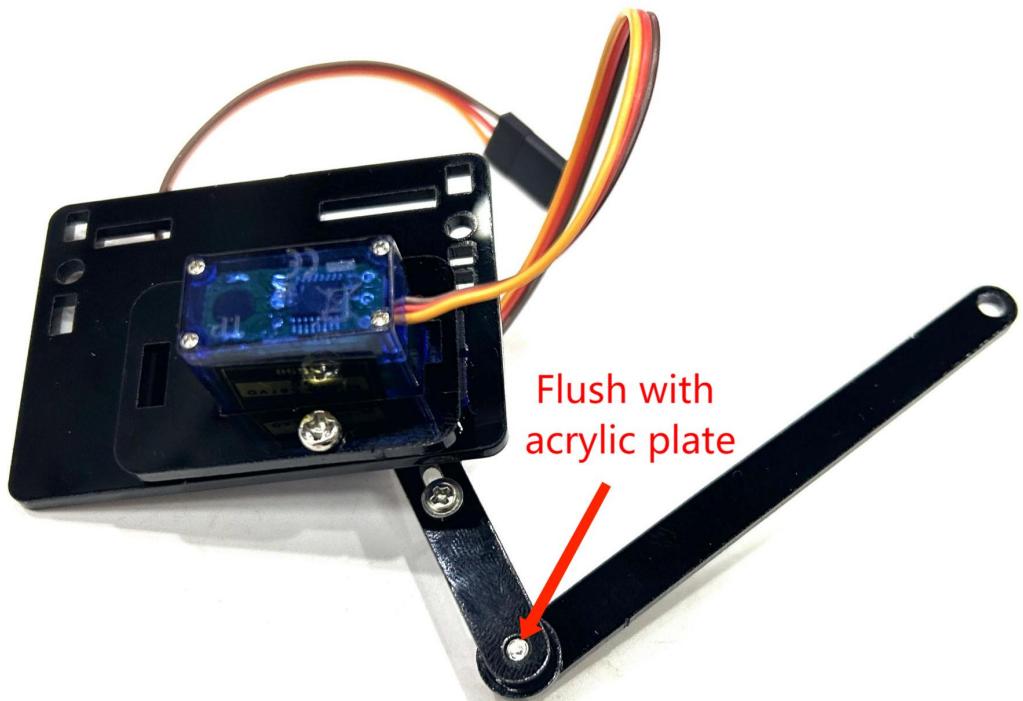


Installation 5

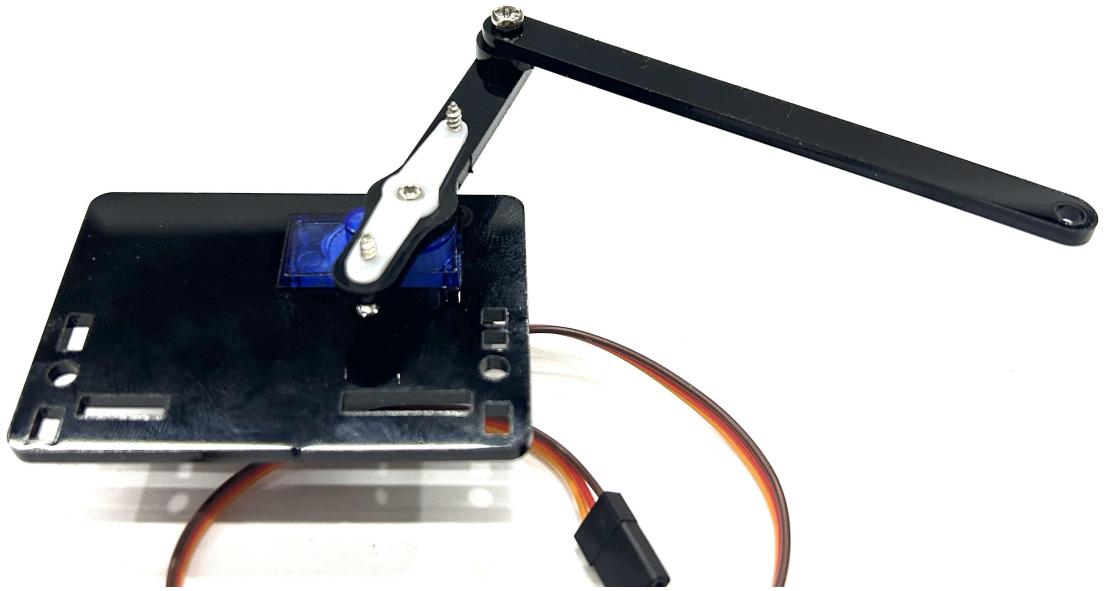
Prepare
parts



1



2



Installation 6

Prepare
parts



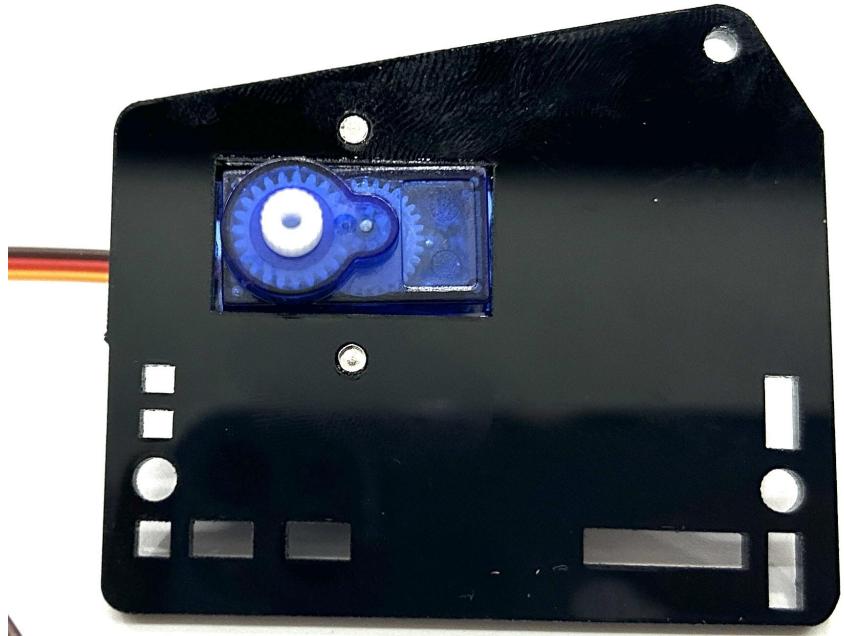
Do not tighten it too tightly, it is easy to break.



1

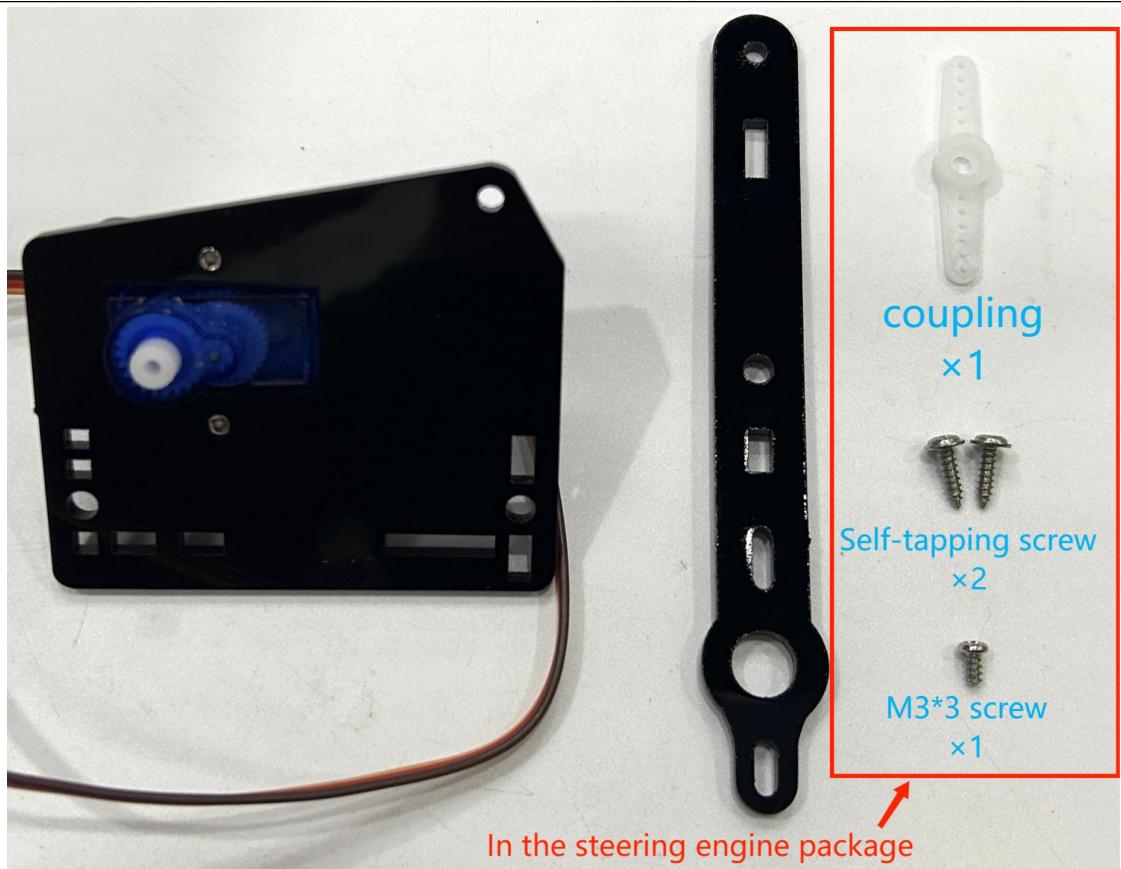


2



Installation 7

Prepare
parts

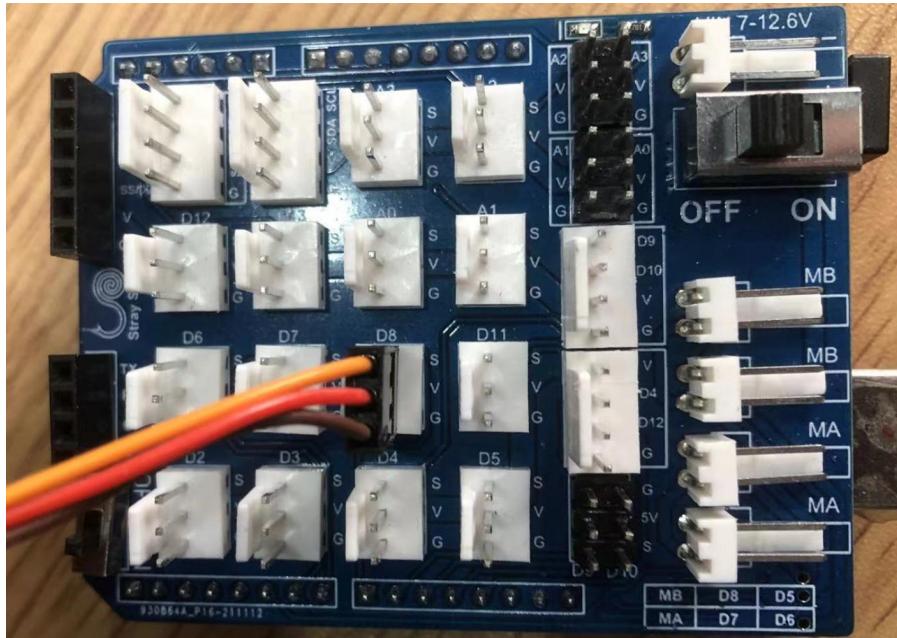


1



Adjust
the
steering
engine
to 90 °

Connect the steering gear wire to the D8 terminal of the expansion plate.
Note that the color order of the wire corresponds to the following figure:



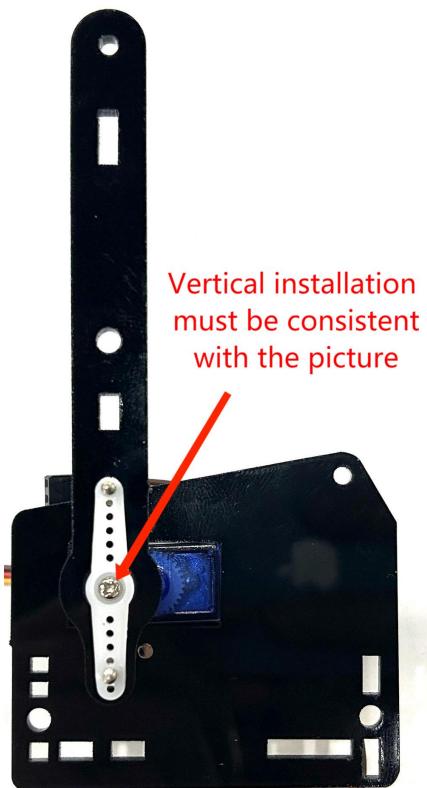
The following is the program to control the steering gear to 90 degrees, please copy it to the Arduino IDE and upload the program:

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

void setup() {
    myservo.attach(8); // attaches the servo on pin 8 to the servo object
}

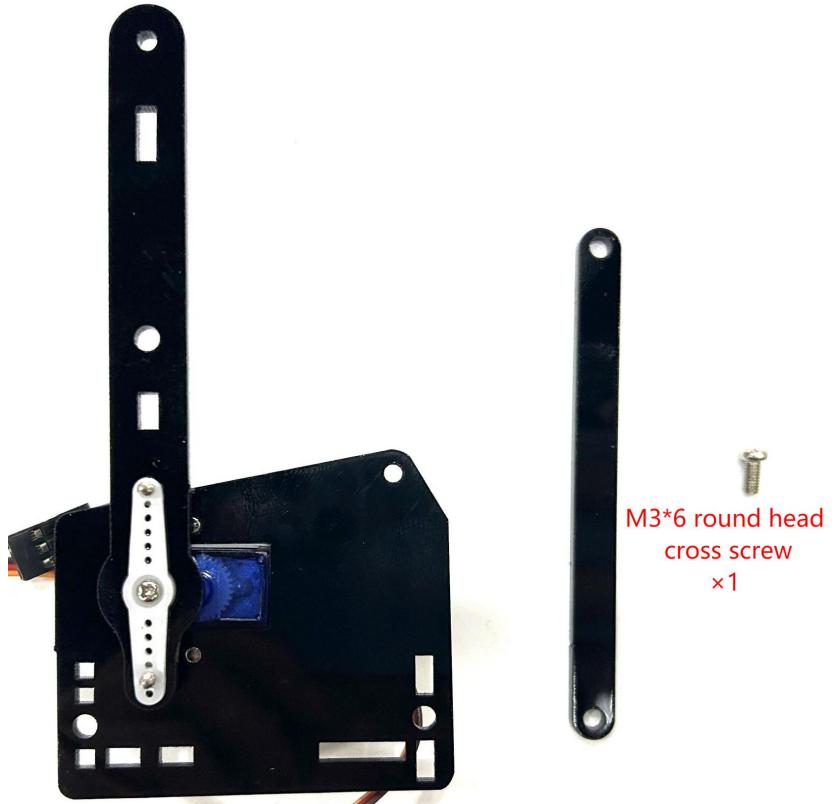
void loop() {
    myservo.write(90); //Turn it to 90 degrees
}
```

2



Installation 8

Prepare
parts

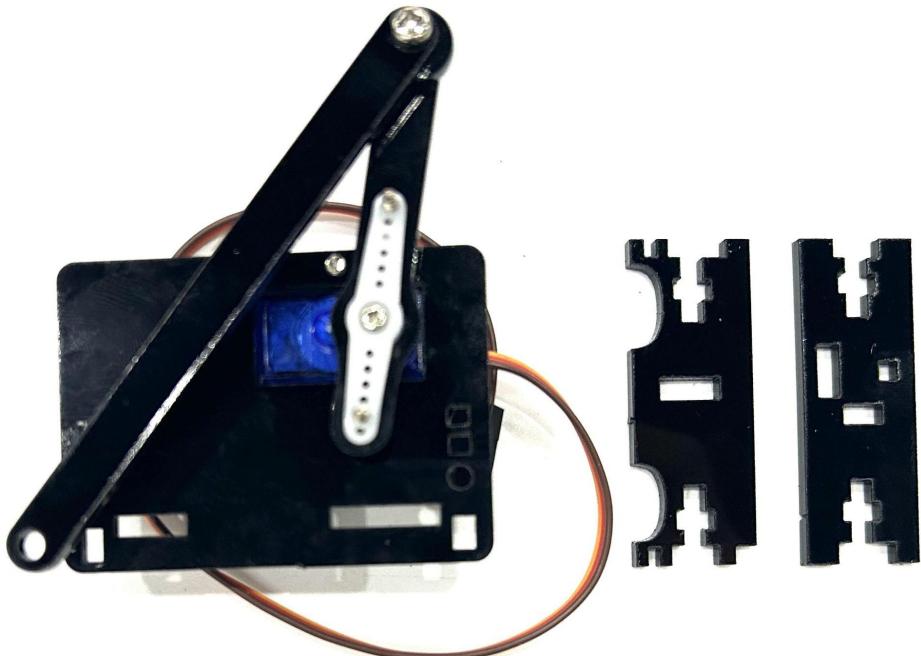


1



Installation 9

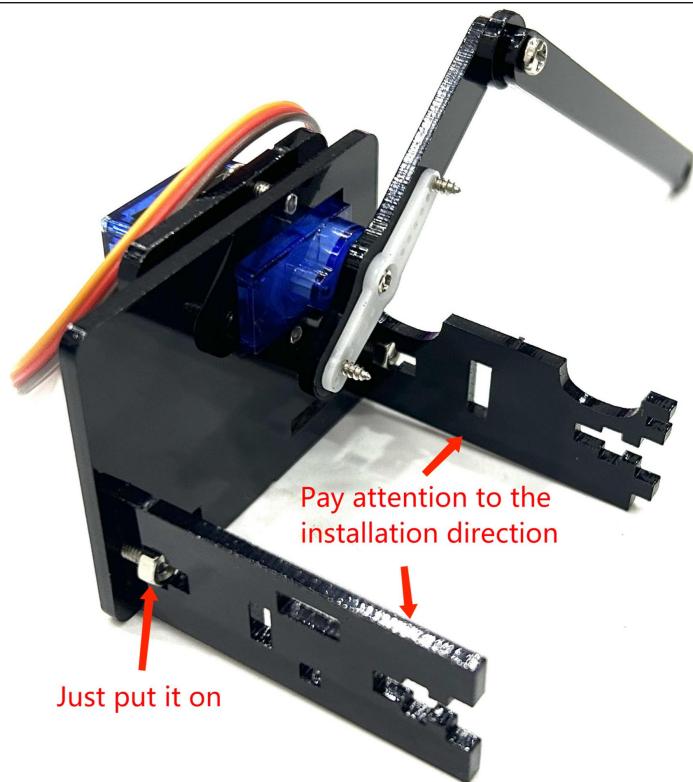
Prepare
parts




M3*10 round head
cross screw
x2


M3 nut
x2

1



Installation 10

Prepare
parts

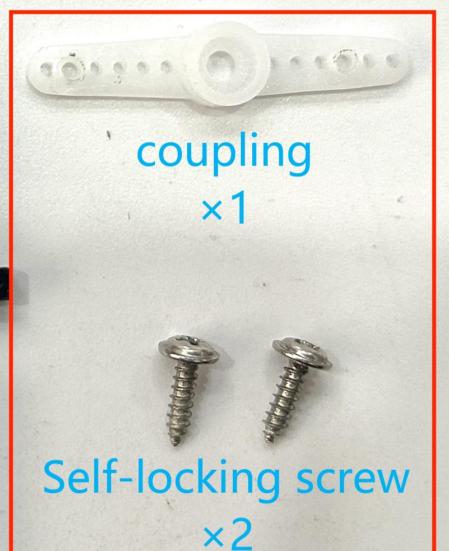
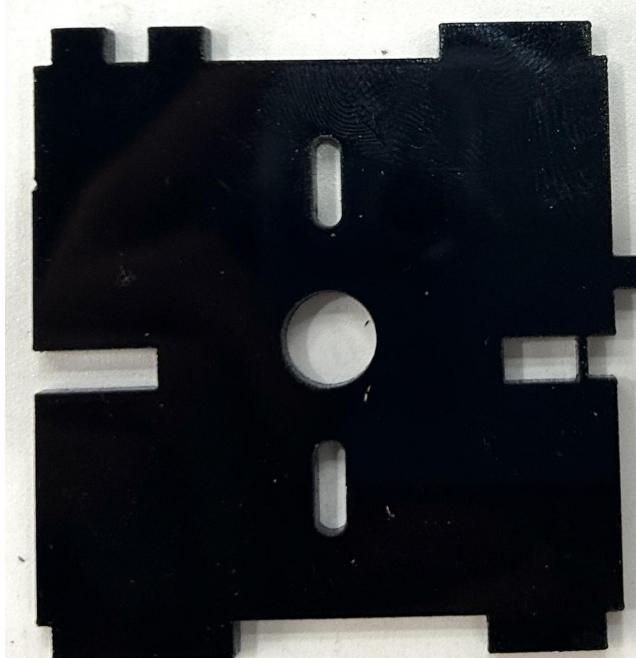


1



Installation 11

Prepare
parts



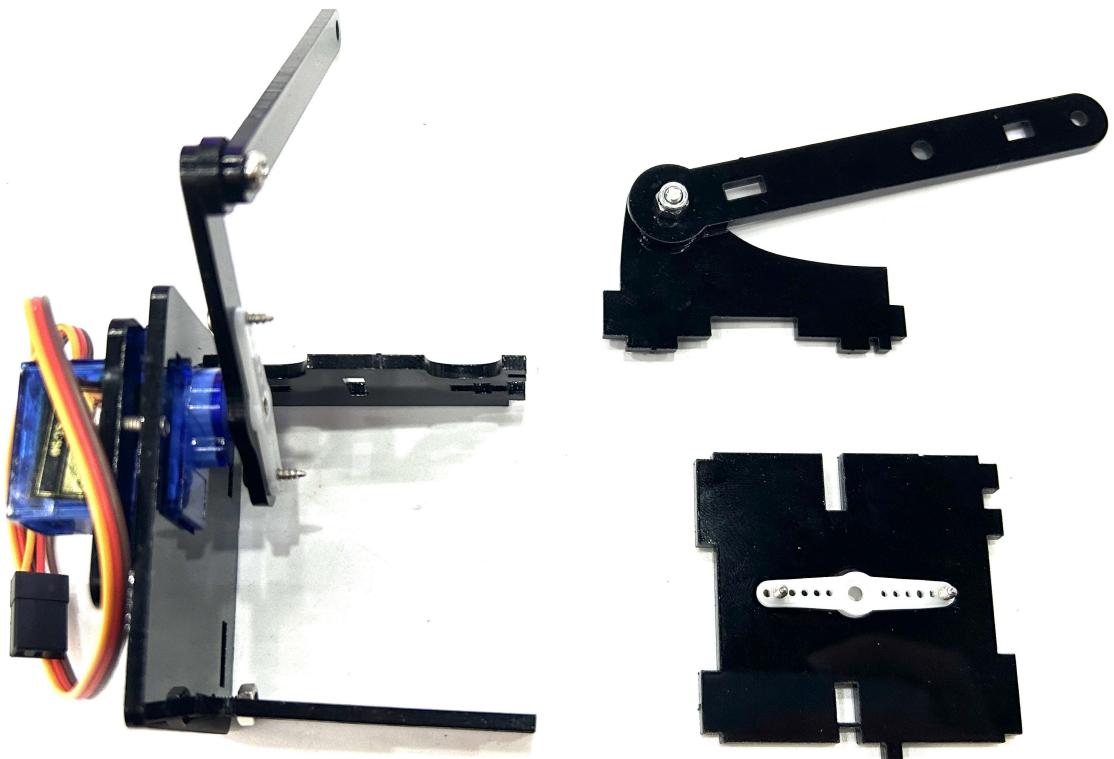
In the steering engine package

1

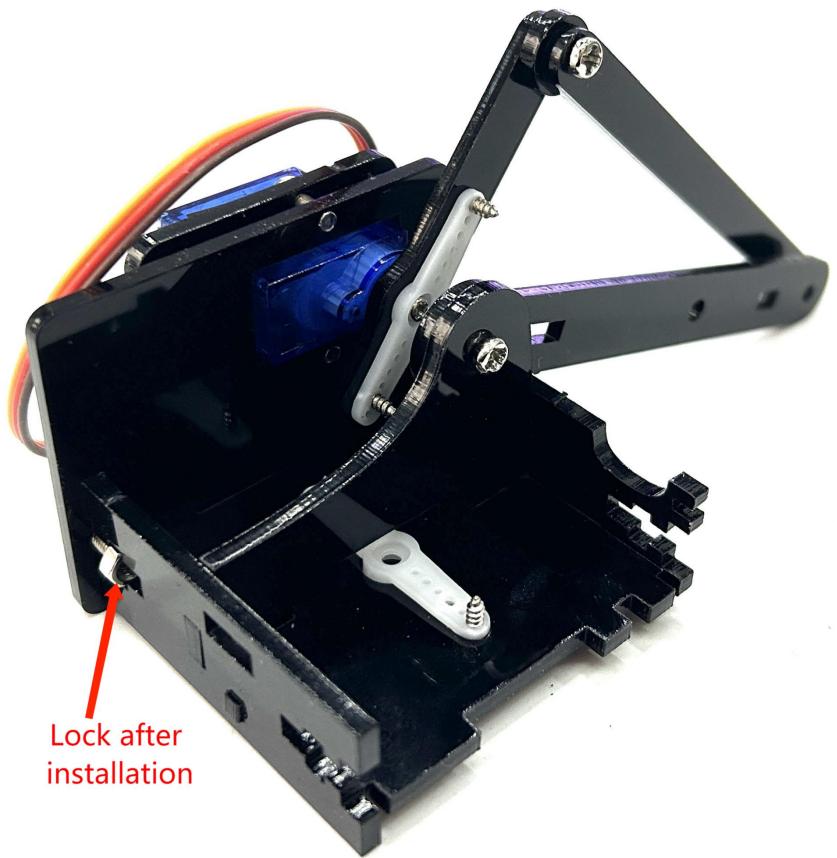


Installation 12

Prepare
parts

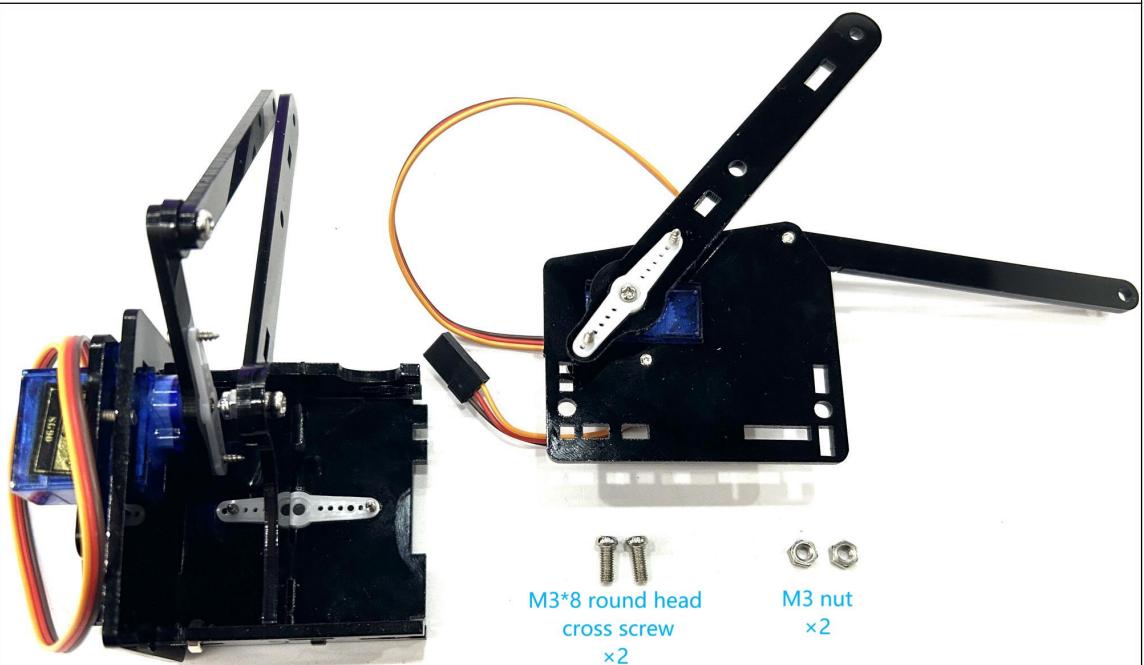


1



Installation 13

Prepare
parts

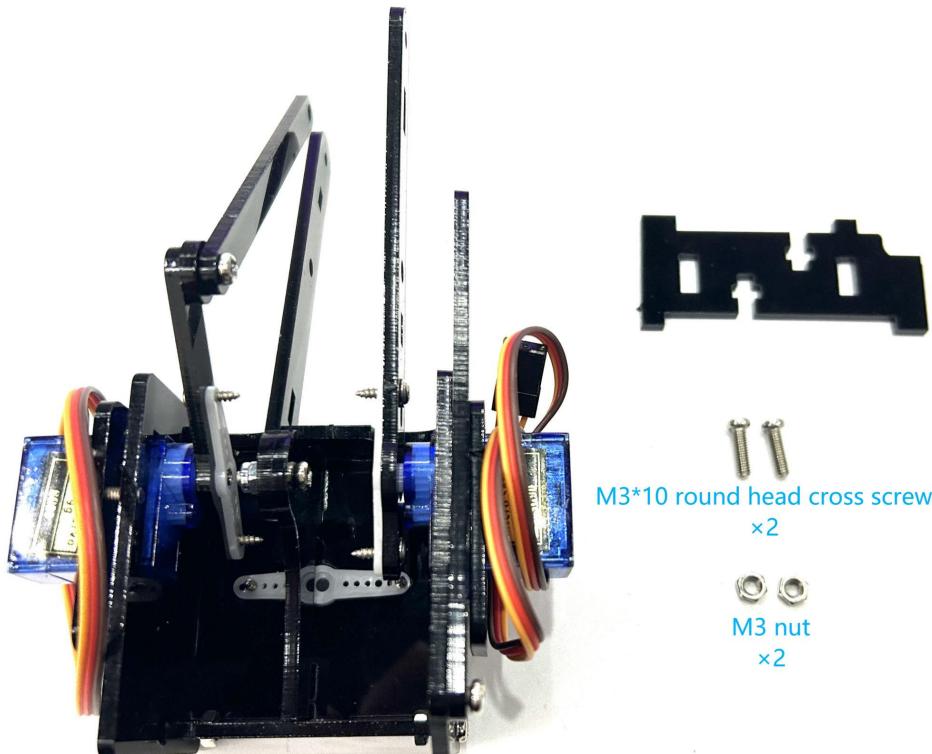


1



Installation 14

Prepare
parts



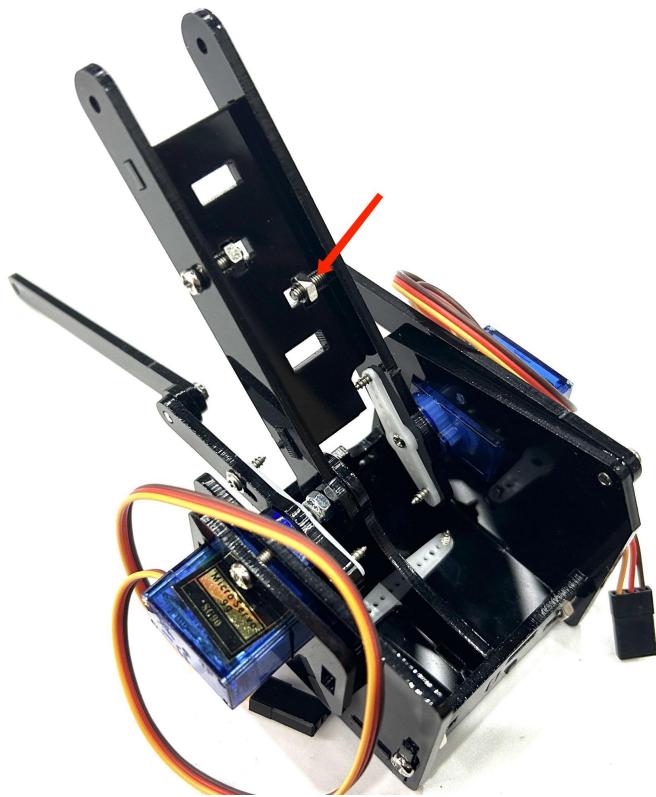
M3*10 round head cross screw
x2

M3 nut
x2

1

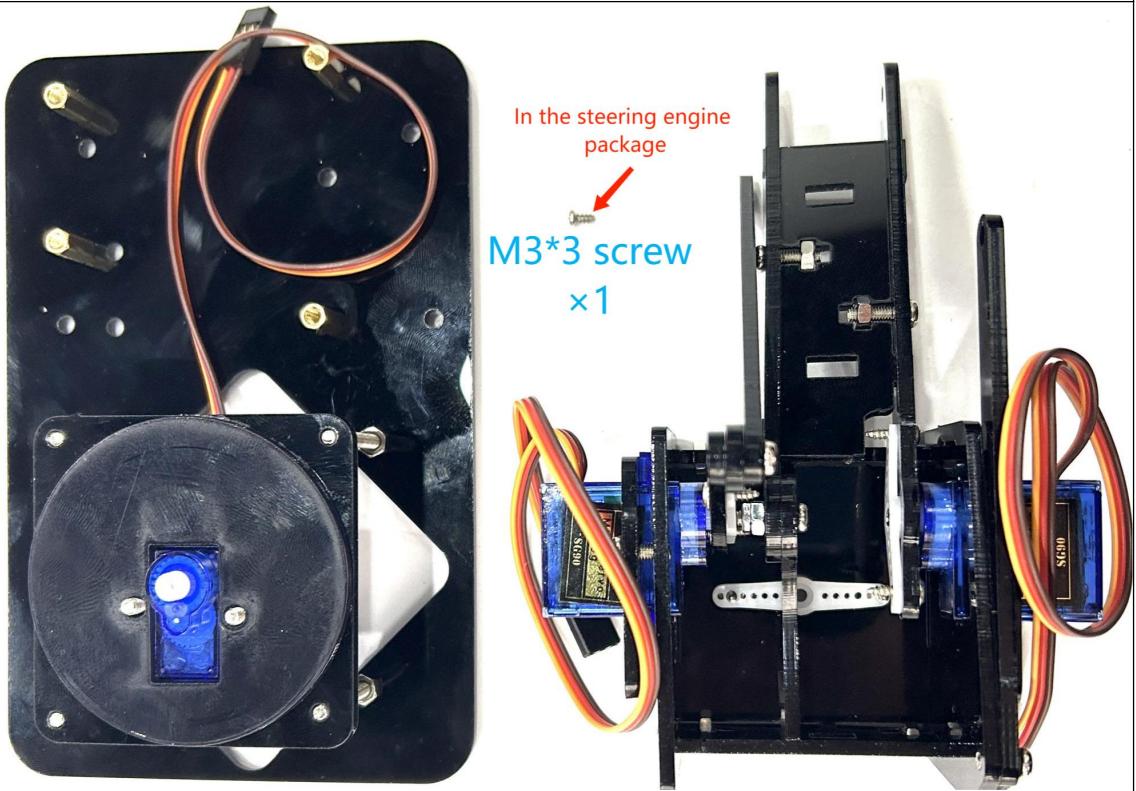


2

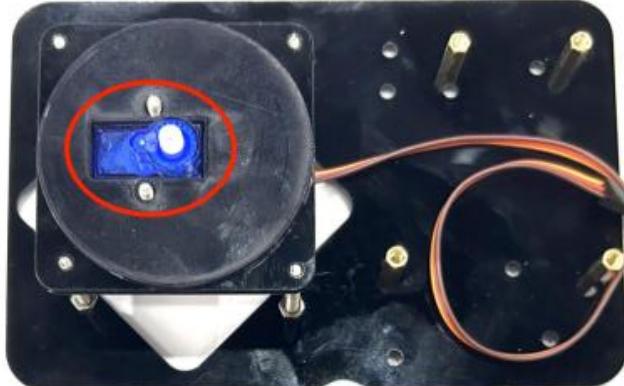


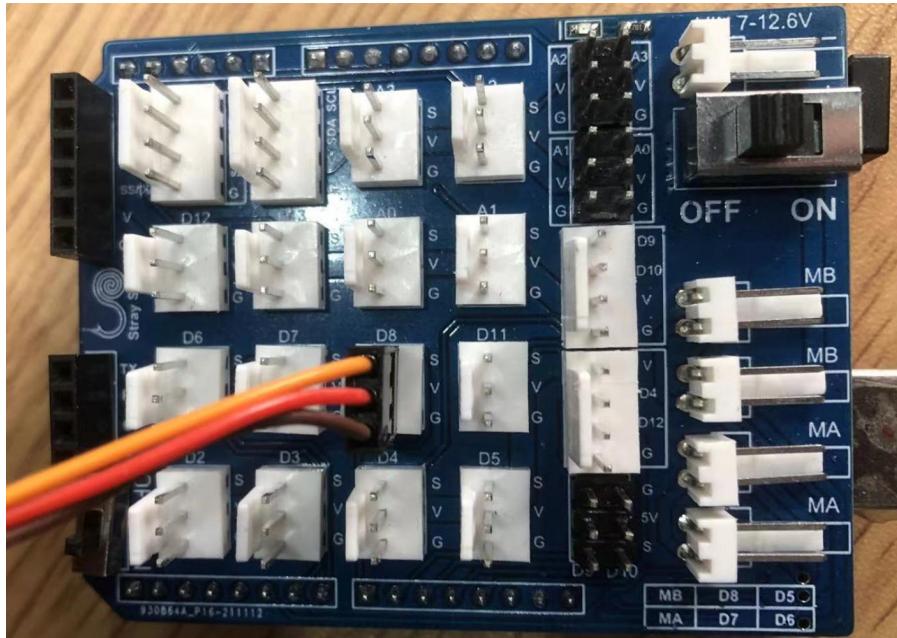
Installation 15

Prepare
parts



Adjust
the
steering
engine
to 90 °





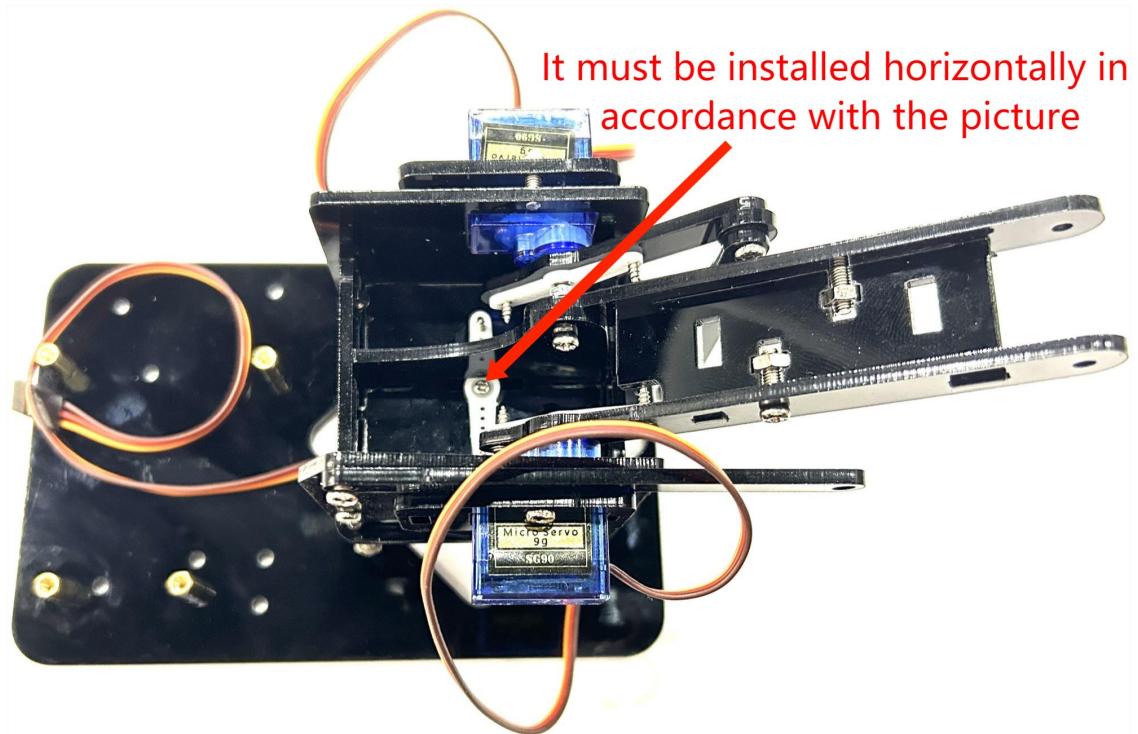
The following is the program to control the steering gear to 90 degrees, please copy it to the Arduino IDE and upload the program:

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

void setup() {
    myservo.attach(8); // attaches the servo on pin 8 to the servo object
}

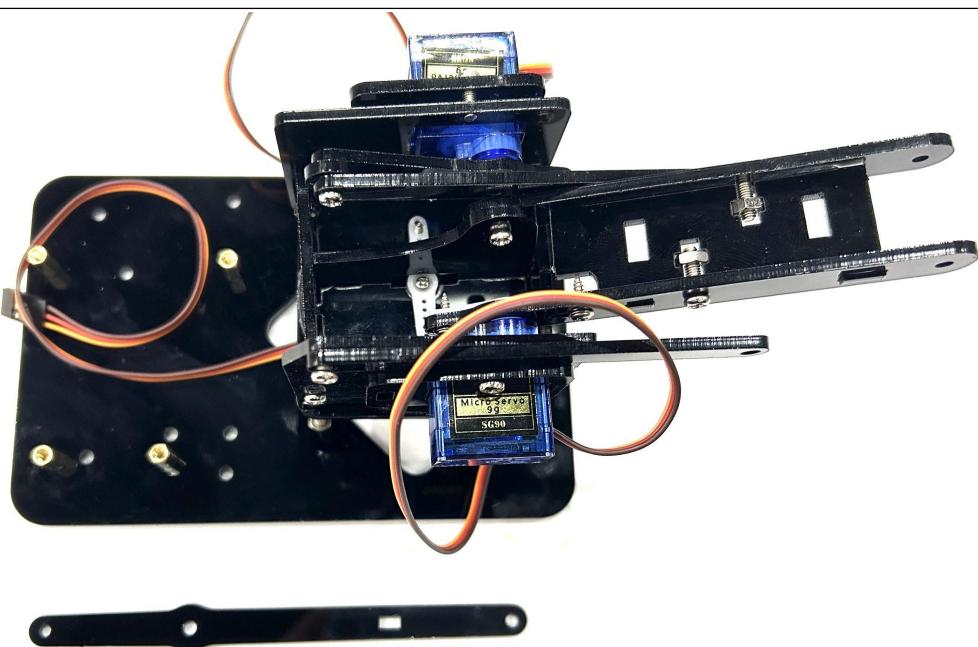
void loop() {
    myservo.write(90); //Turn it to 90 degrees
}
```

1



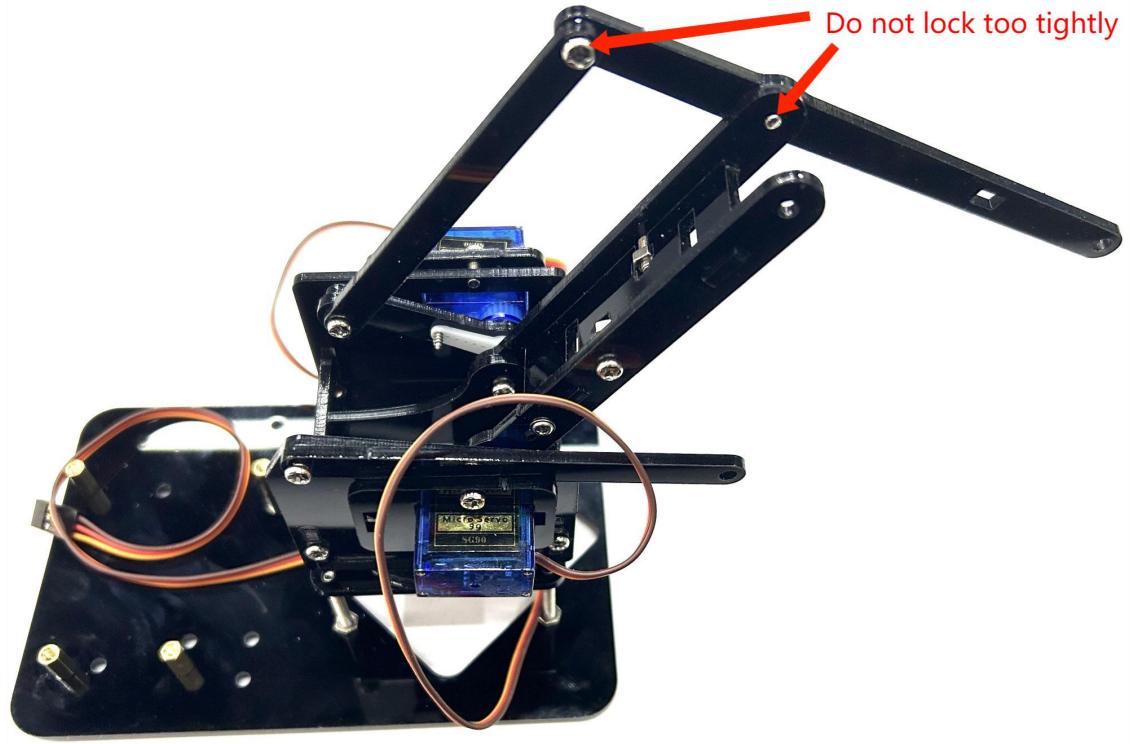
Installation 16

Prepare
parts



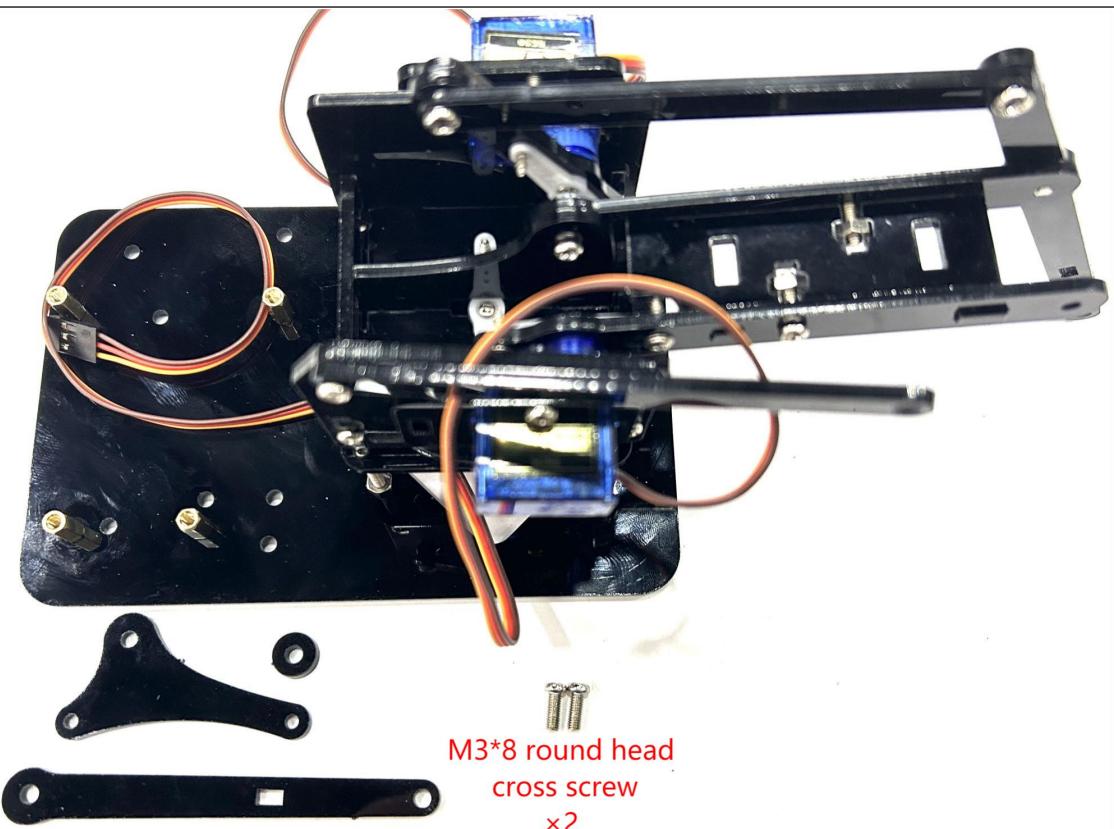
M3*6 round head cross screw
x2

1

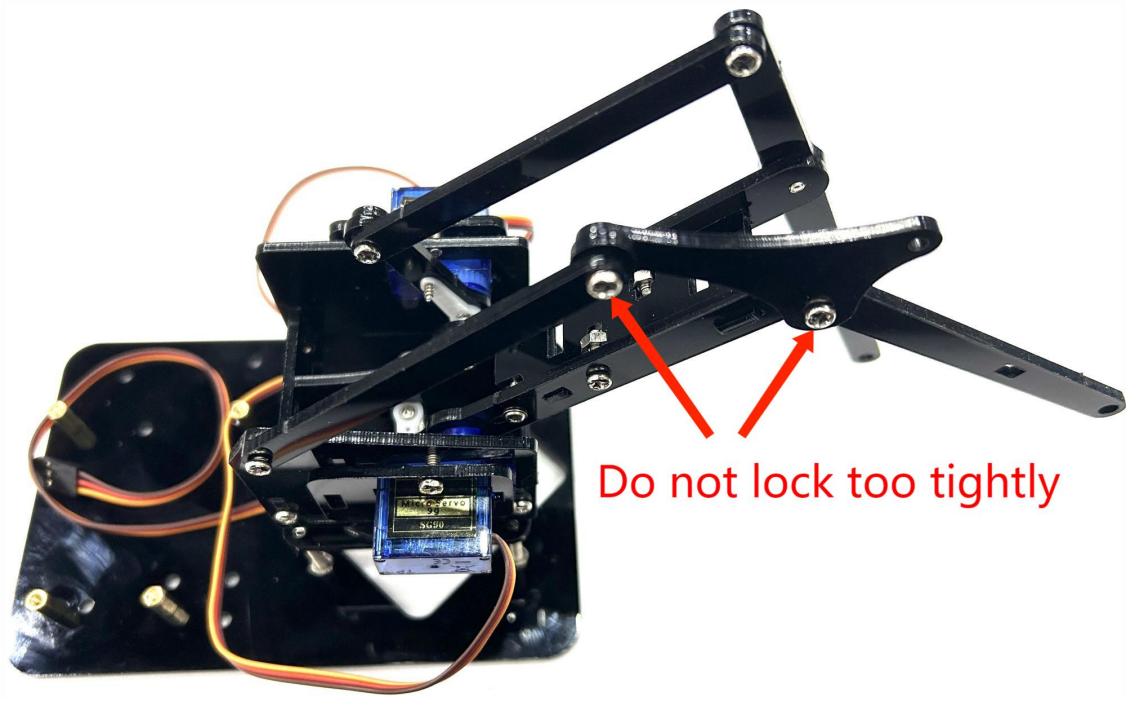


Installation 17

Prepare
parts

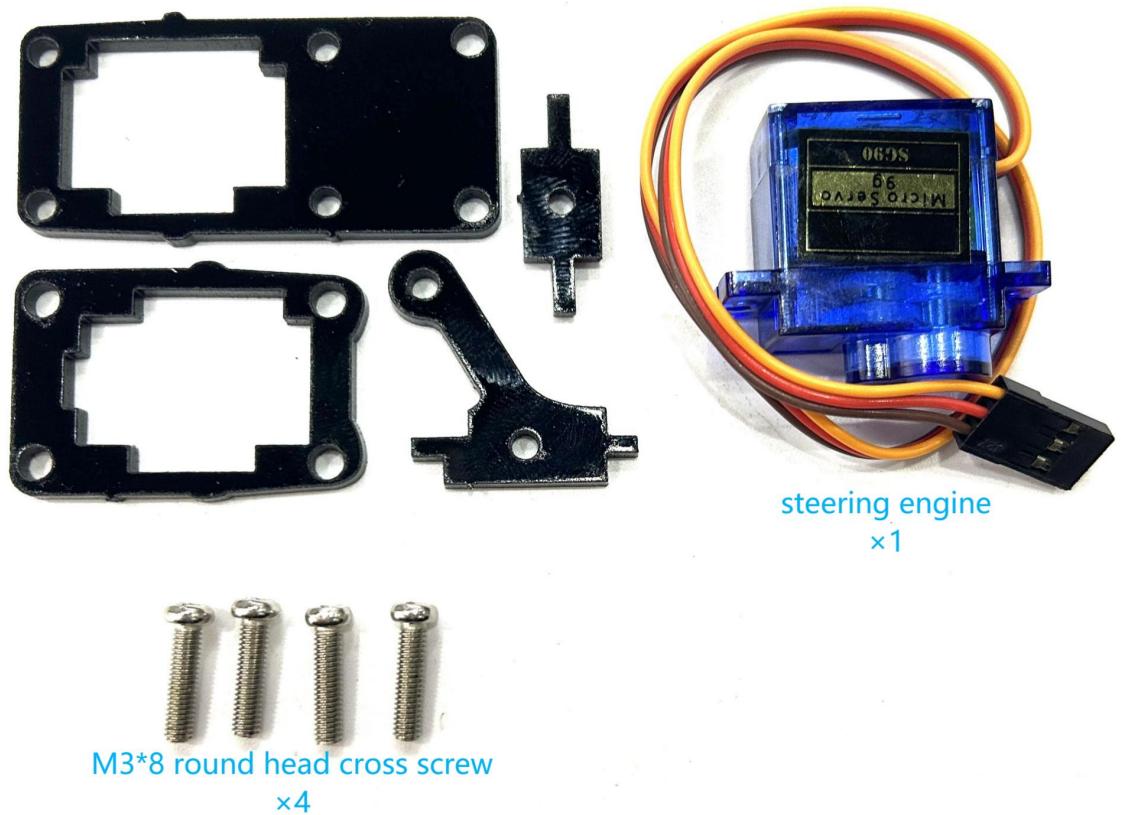


1

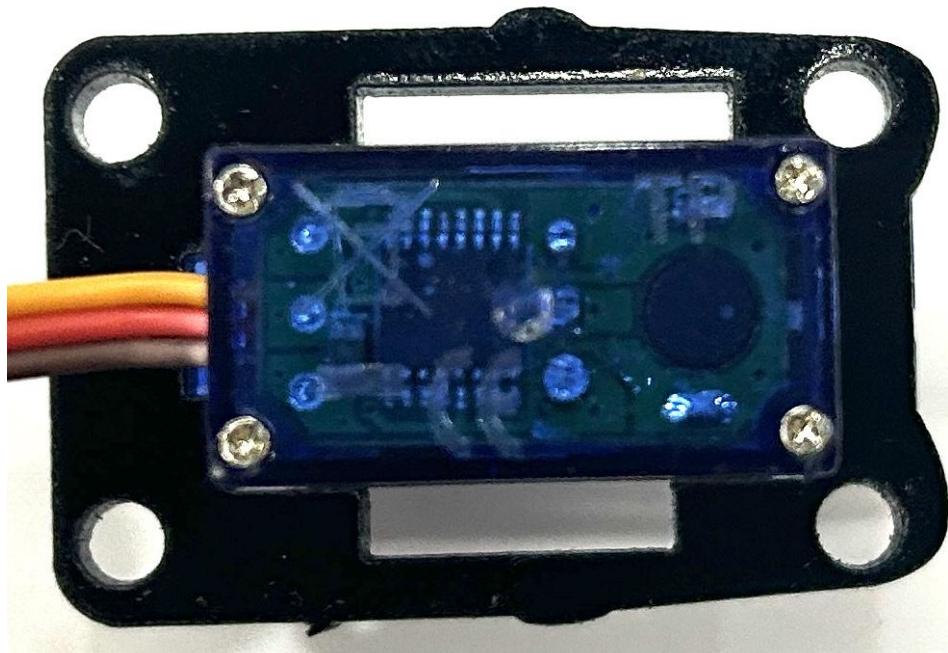


Installation 18

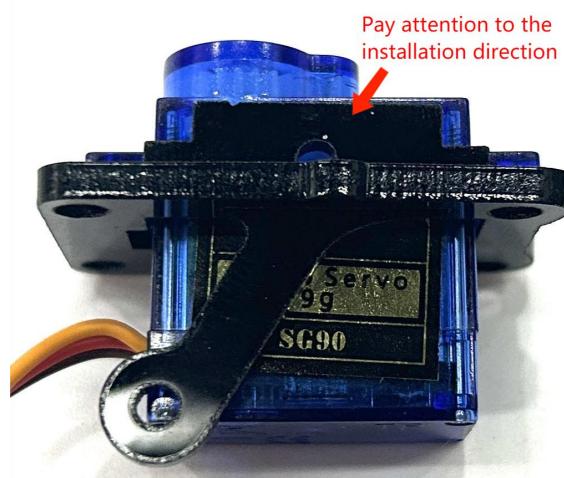
Prepare
parts



1



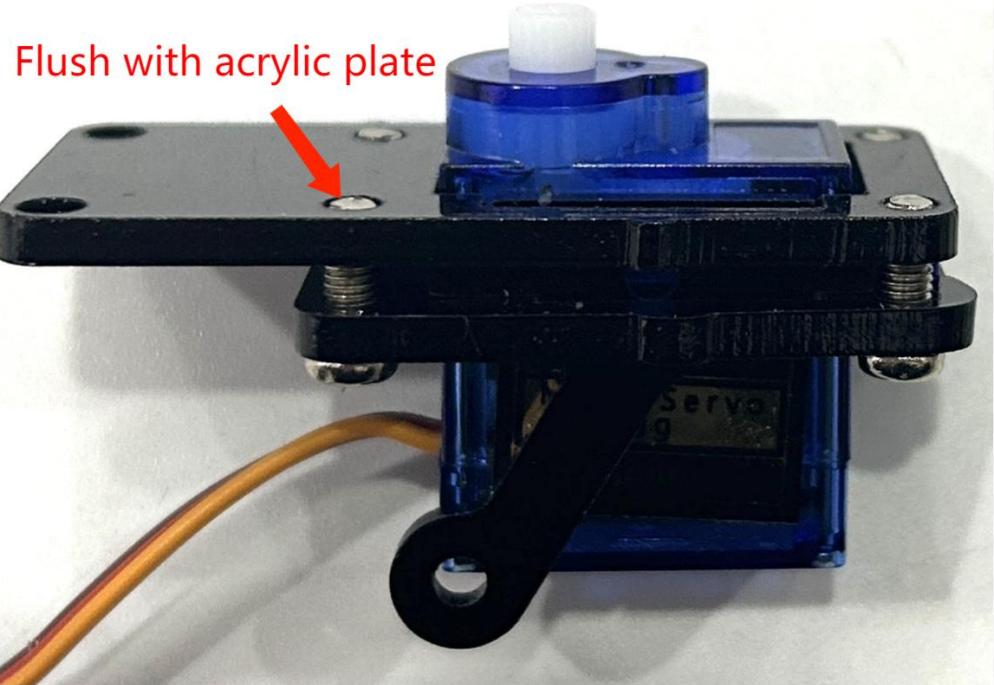
2



3

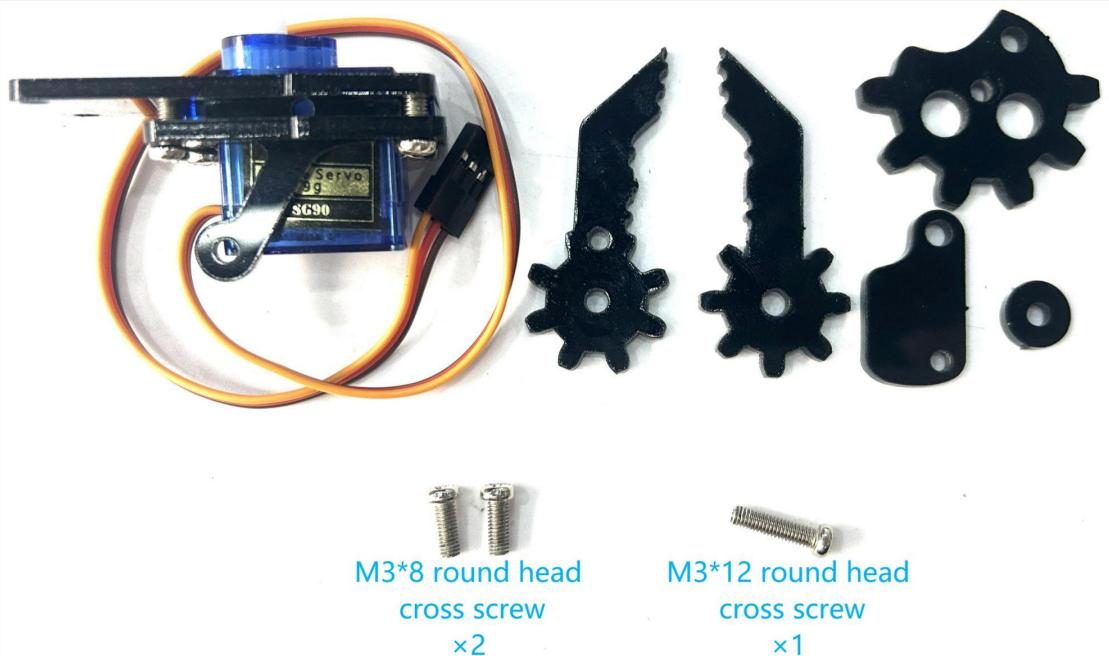


4



Installation 19

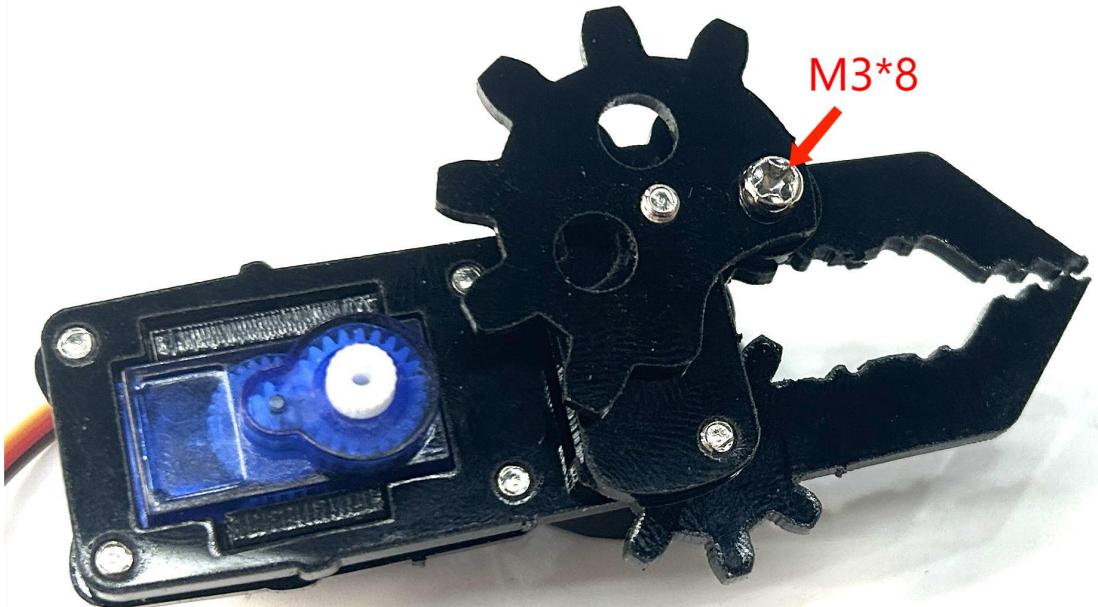
Prepare
parts



1



2



Installation 20

Prepare parts



In the steering engine package

1



Installation 21

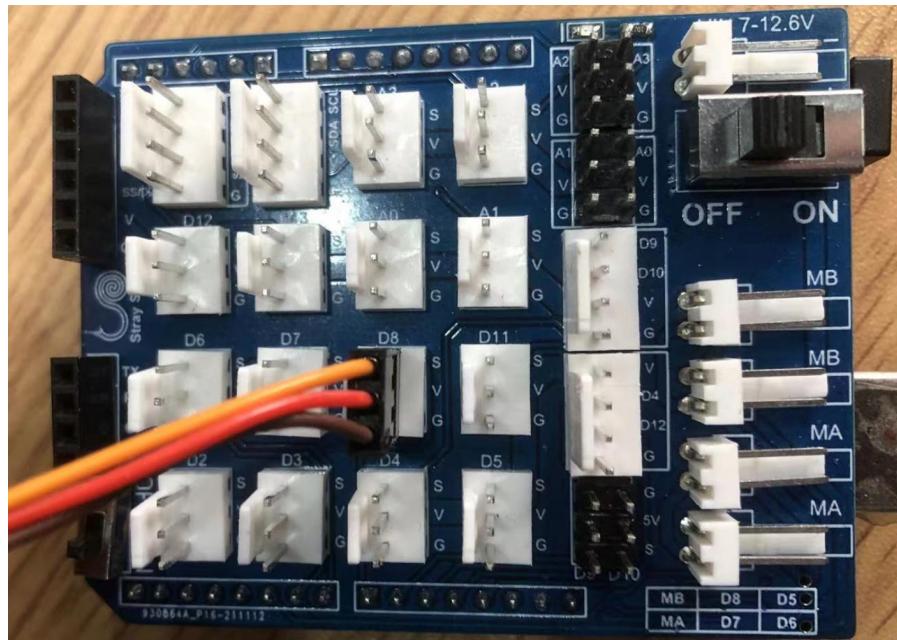
Prepare parts



M3*3 screw
x1

Adjust
the
steering
engine
to 90 °

Connect the steering gear wire to the D8 terminal of the expansion plate.
Note that the color order of the wire corresponds to the following figure:



The following is the program to control the steering gear to 90 degrees,
please copy it to the Arduino IDE and upload the program:

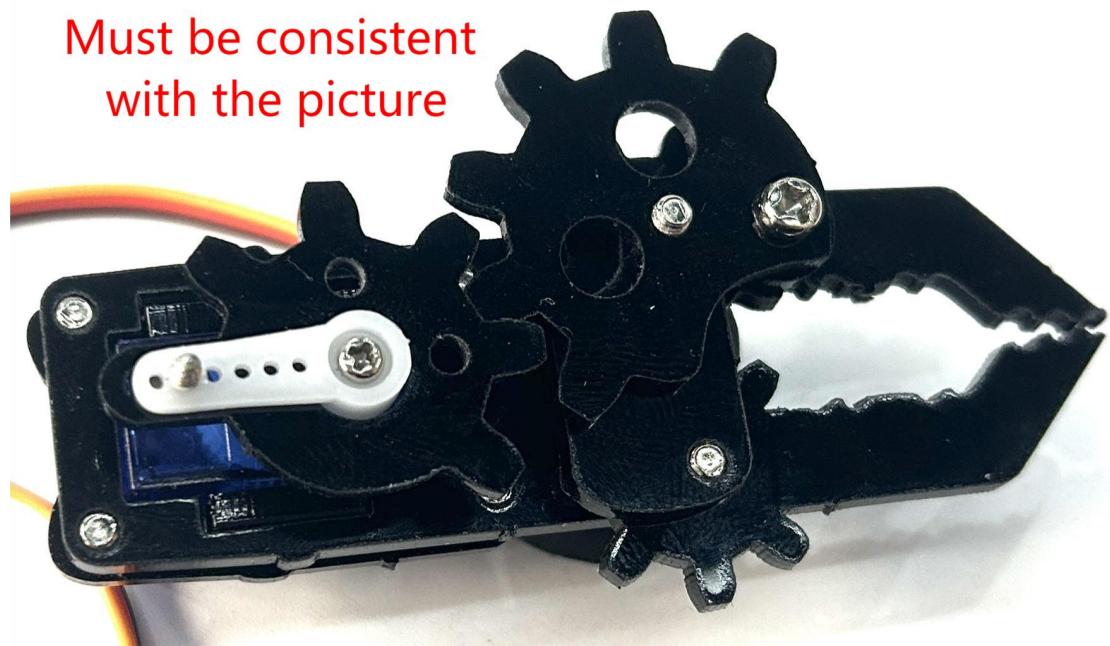
```
#include <Servo.h>
Servo myservo; // create servo object to control a servo

void setup() {
    myservo.attach(8); // attaches the servo on pin 8 to the servo object
}

void loop() {
    myservo.write(90); //Turn it to 90 degrees
}
```

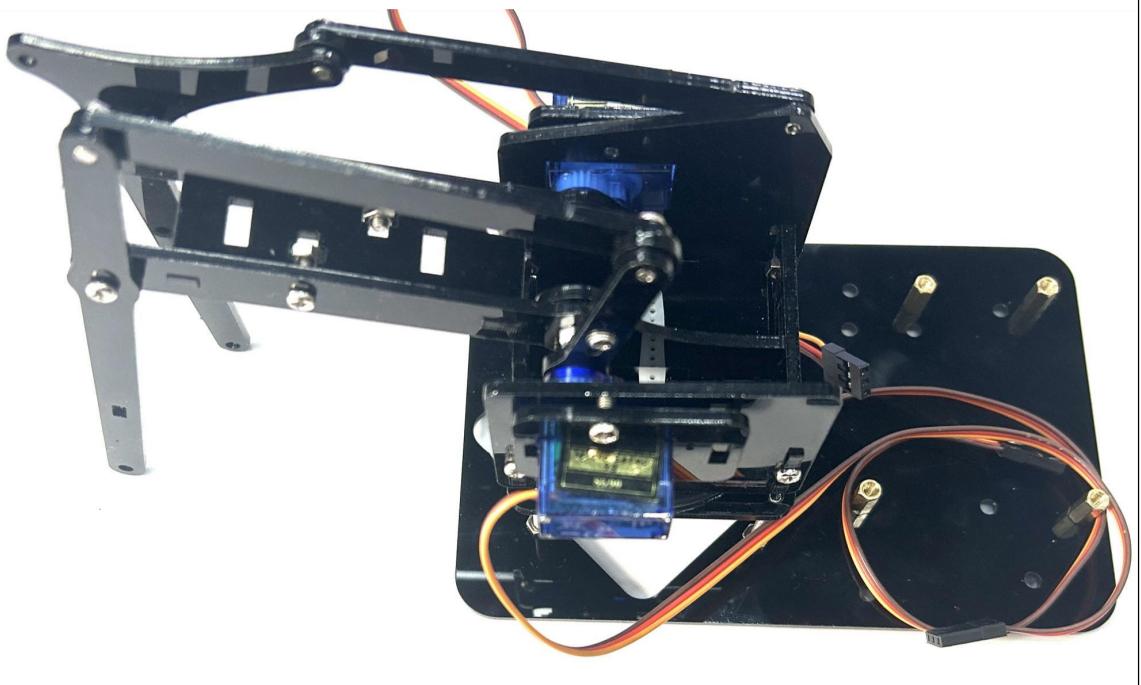
1

Must be consistent
with the picture



Installation 22

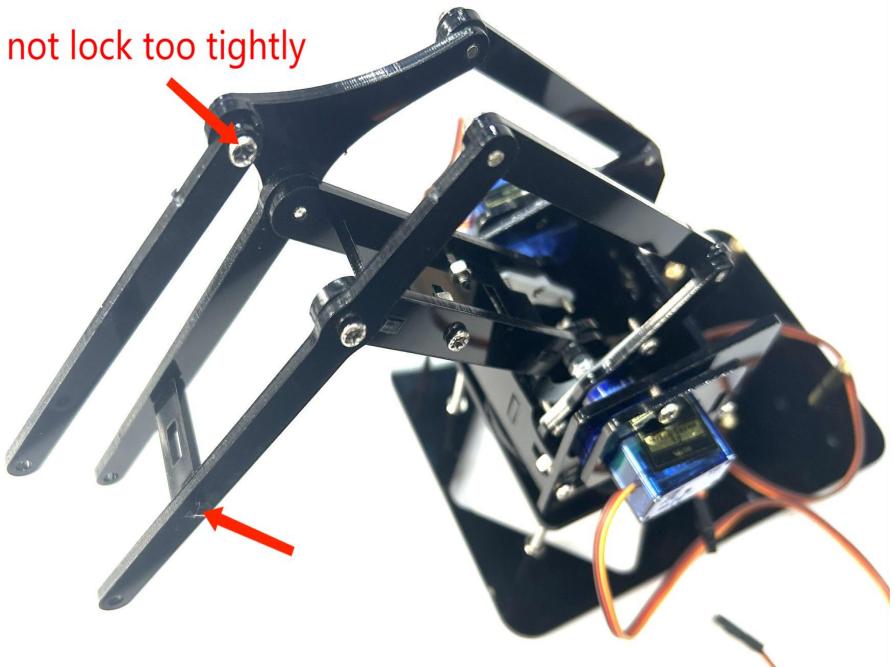
Prepare
parts



M3*8 round head cross screw
x1

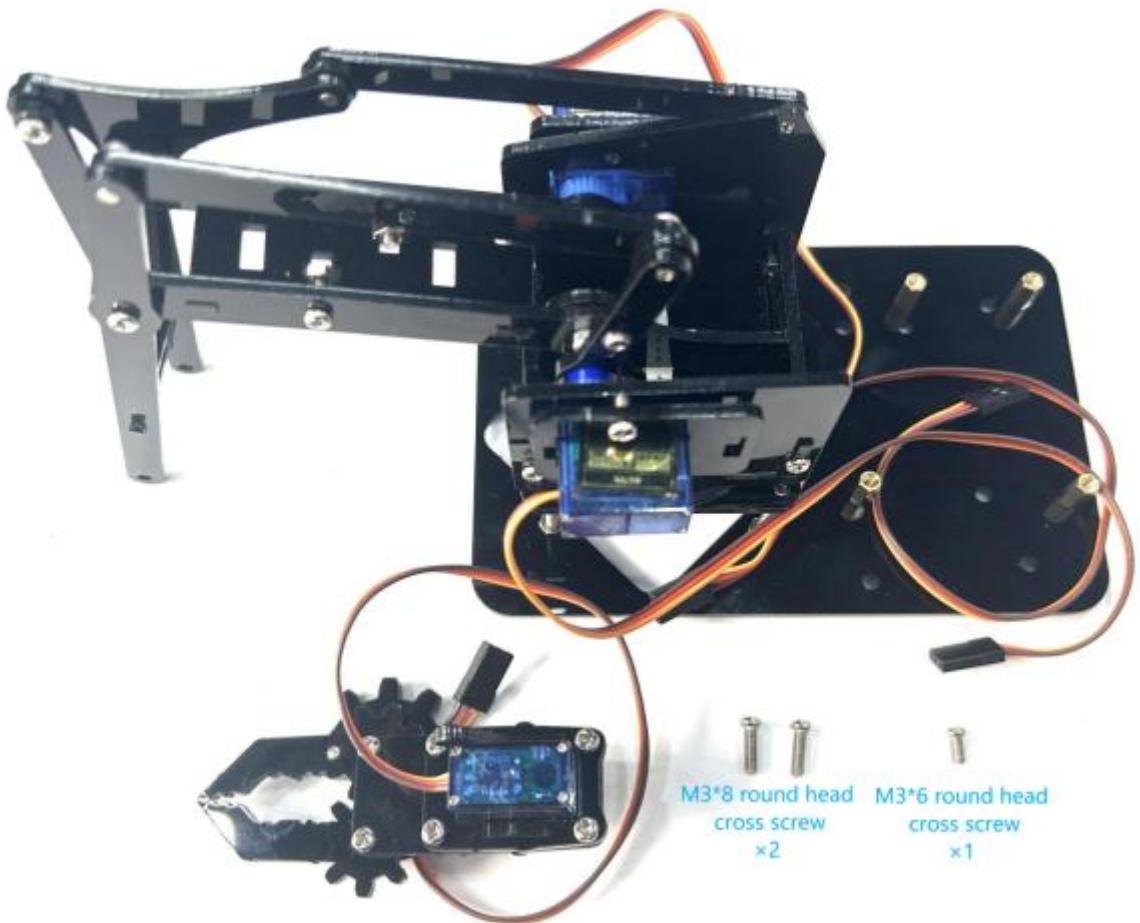
1

Do not lock too tightly

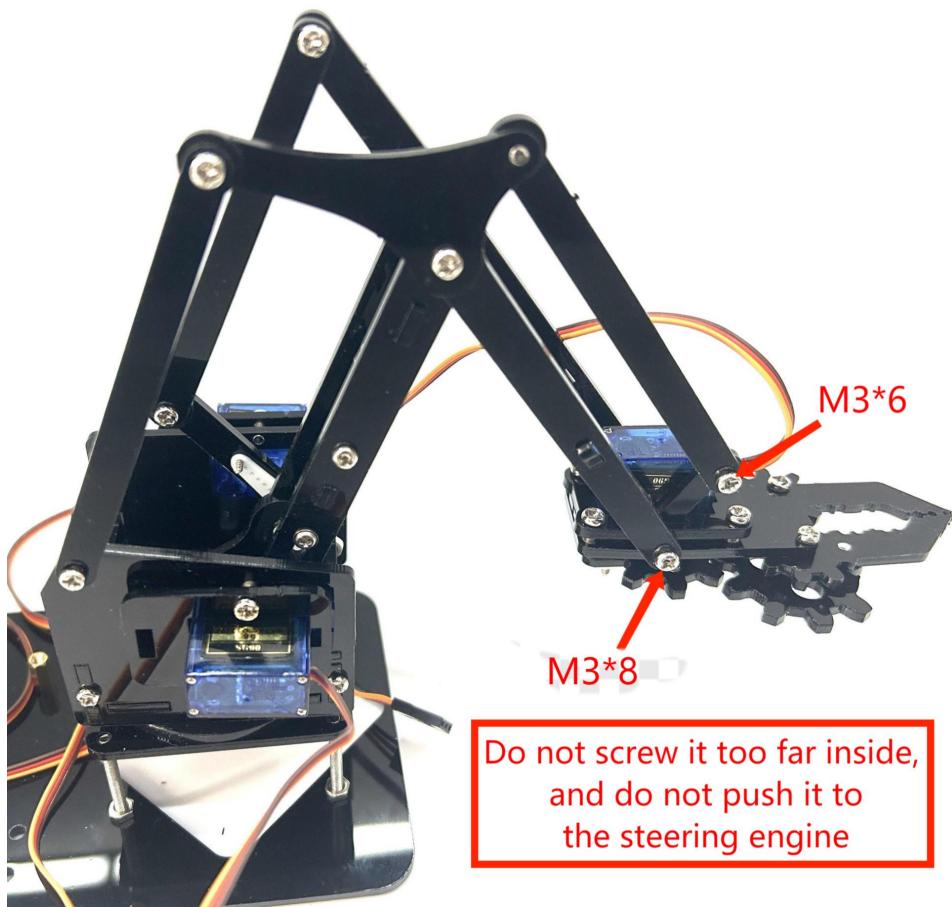


Installation 23

Prepare
parts

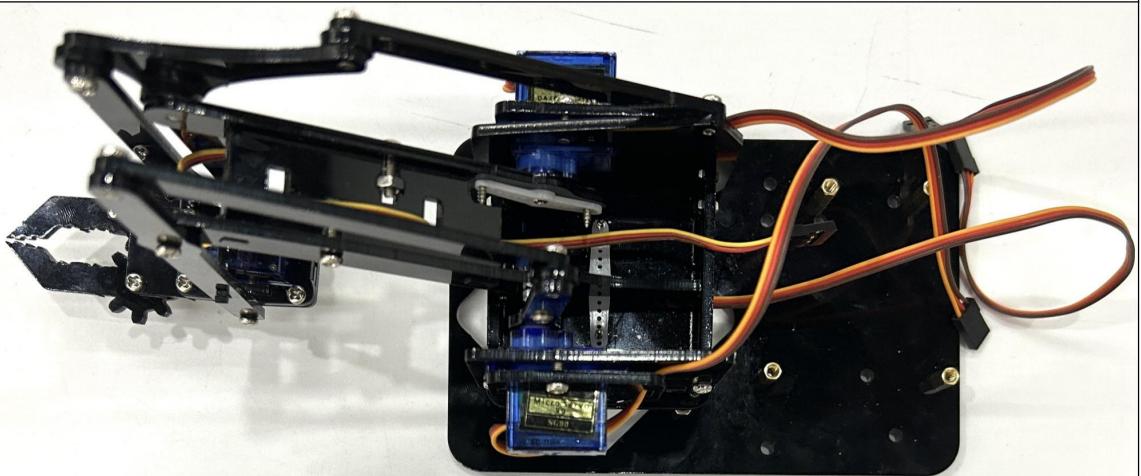


1

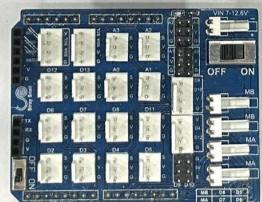


Installation 24

Prepare
parts



Control board
x1



Expansion board x1

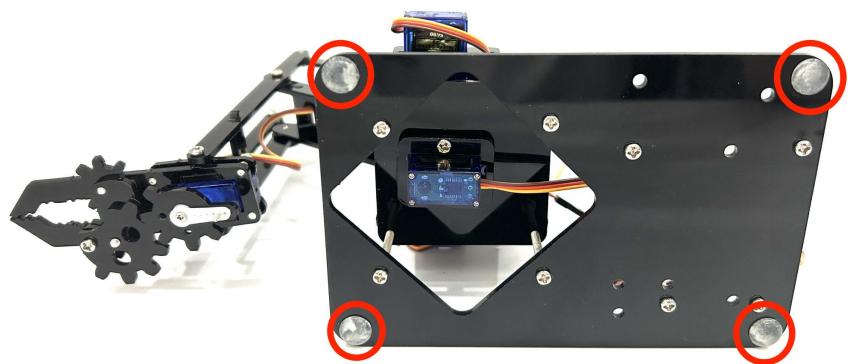
Non-slip foot mat
x4

M3*6mm

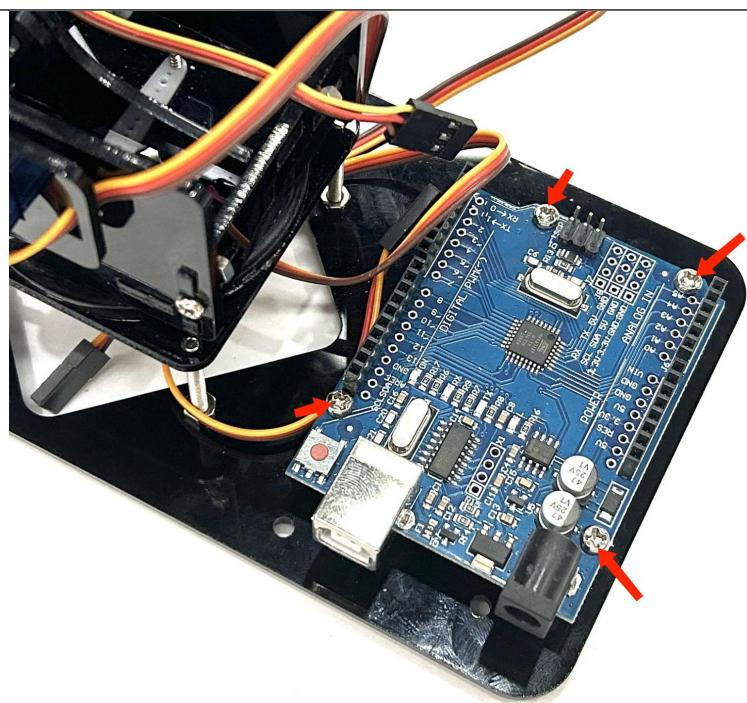
Round head cross screw

x4

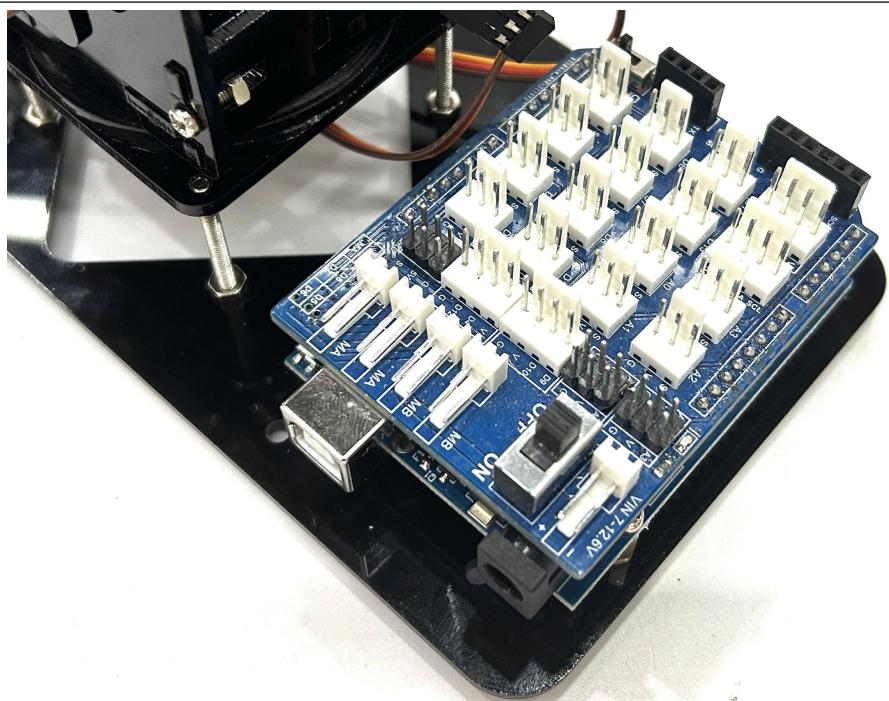
1



2

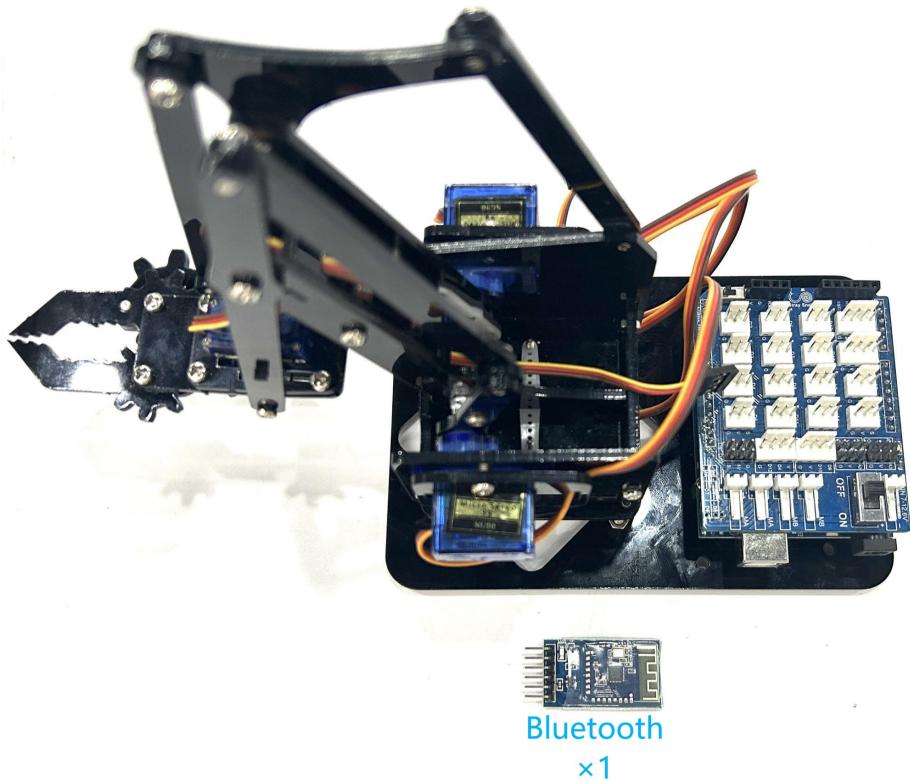


3



Installation 25

Prepare
parts



1



Installation 26

Prepare
parts

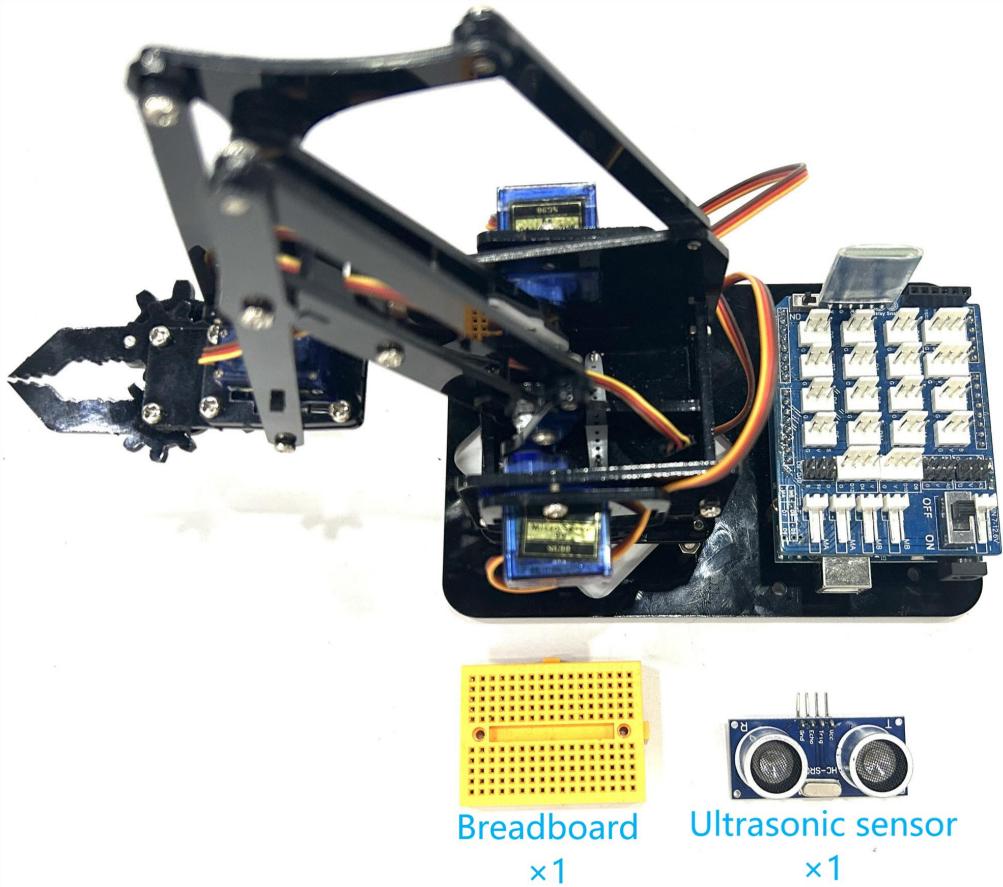


1

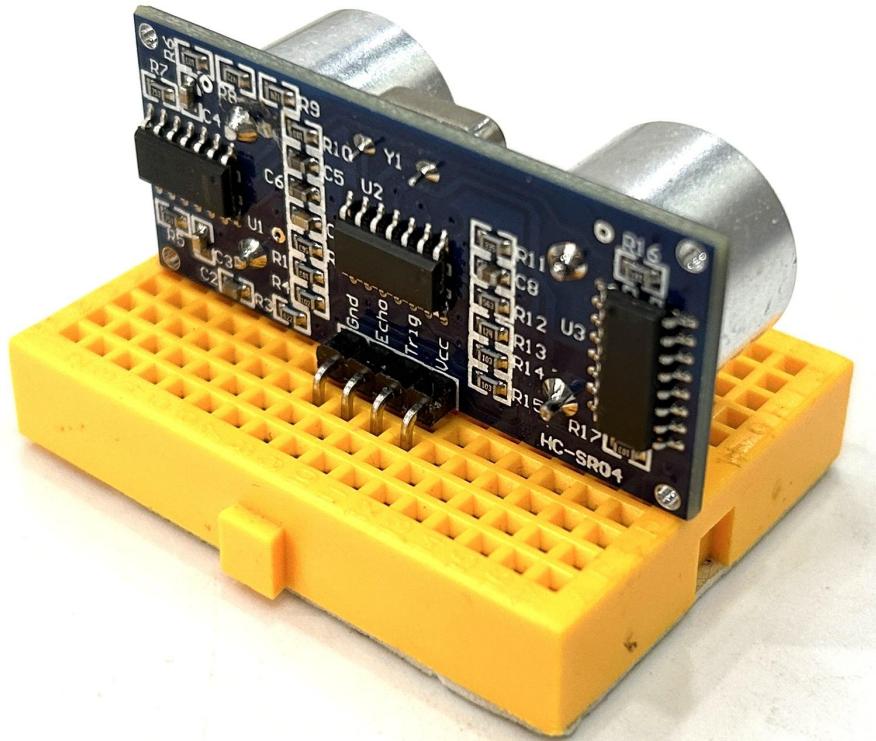


Installation 27

Prepare
parts



1



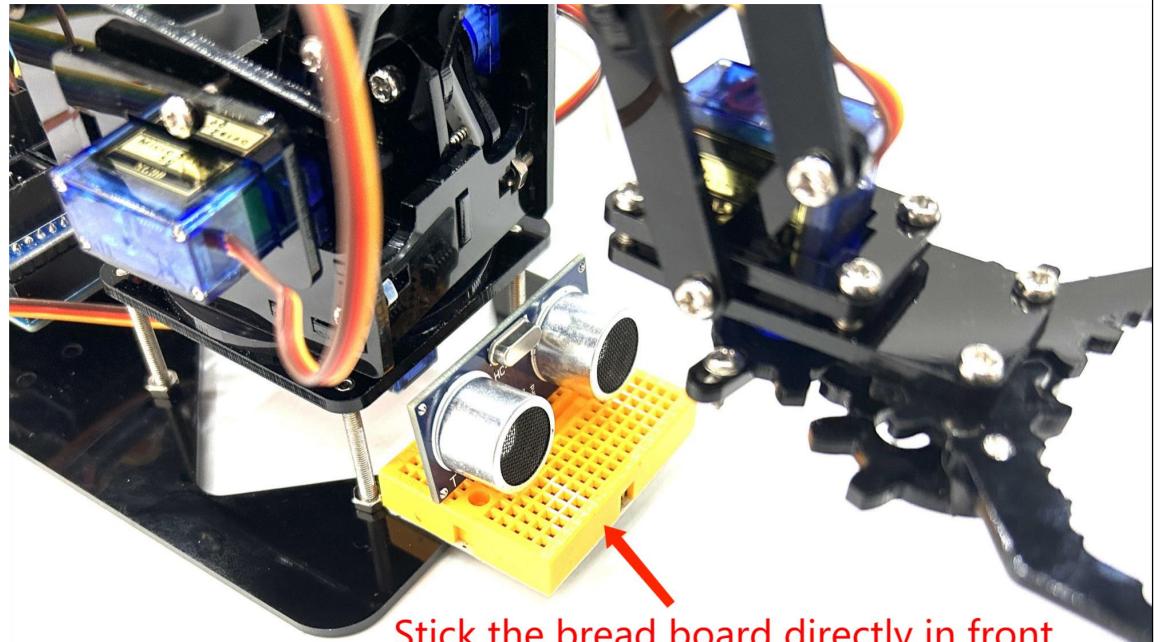
2

Pull off protective film

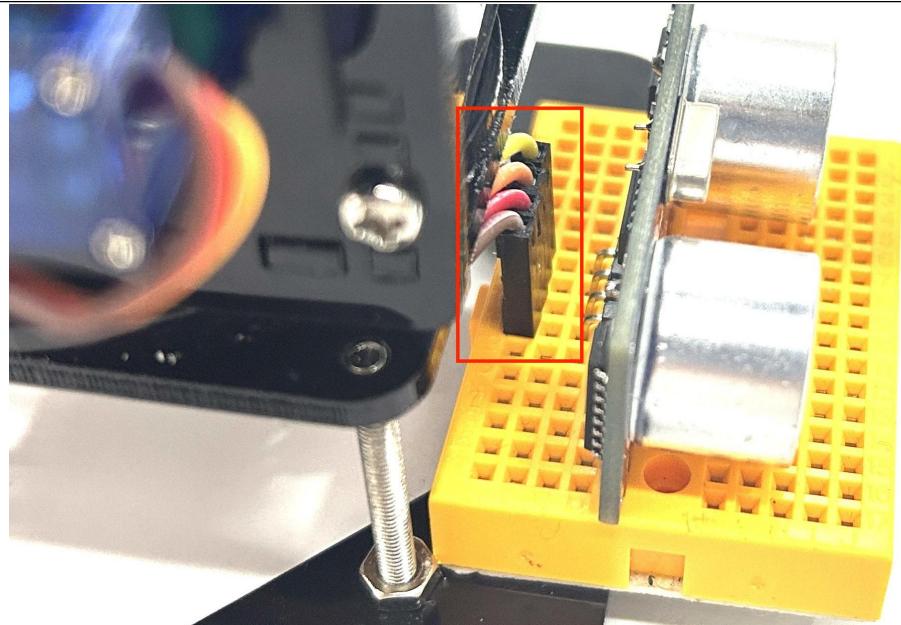


3

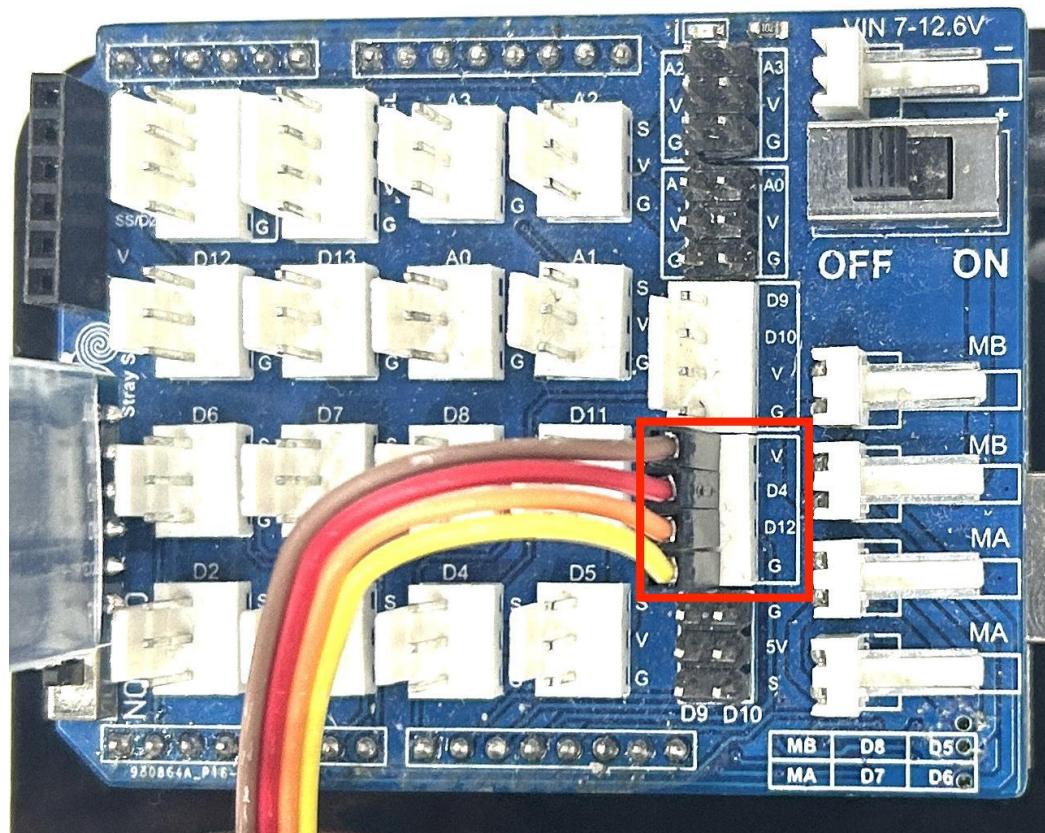
Stick the bread board directly in front



Now let's start wiring

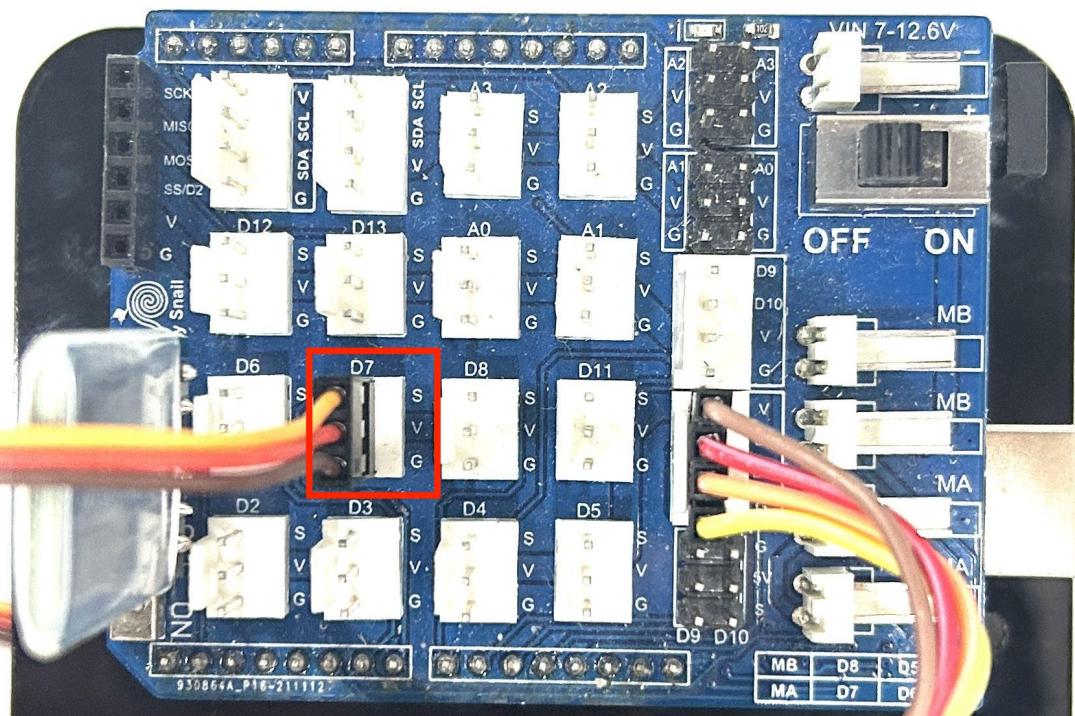
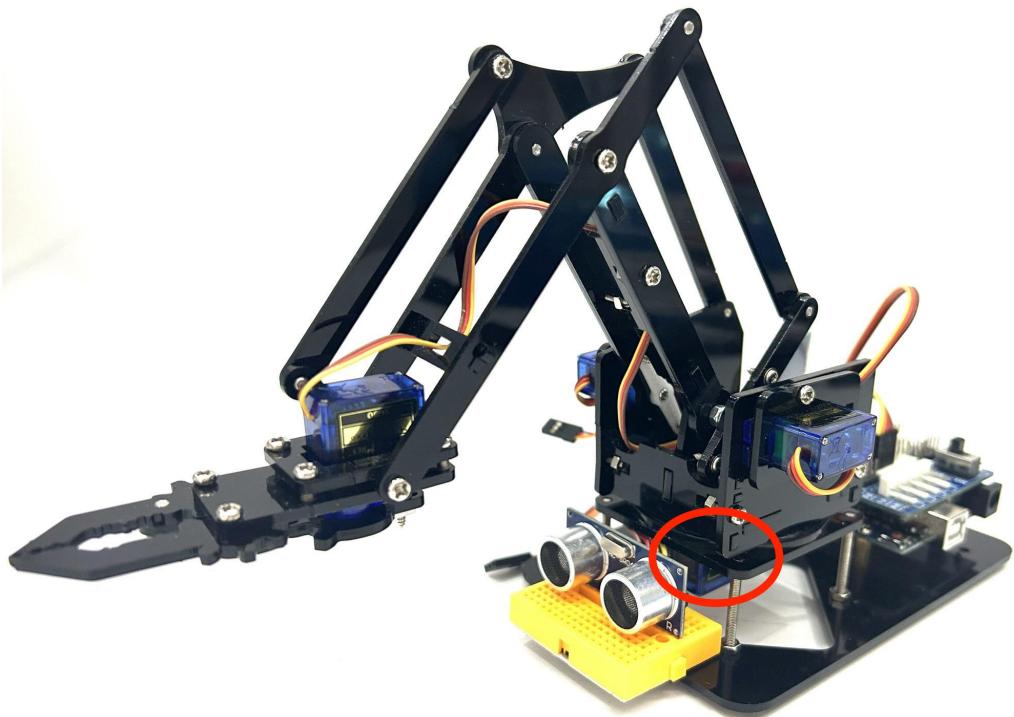


Ultrasonic
wiring



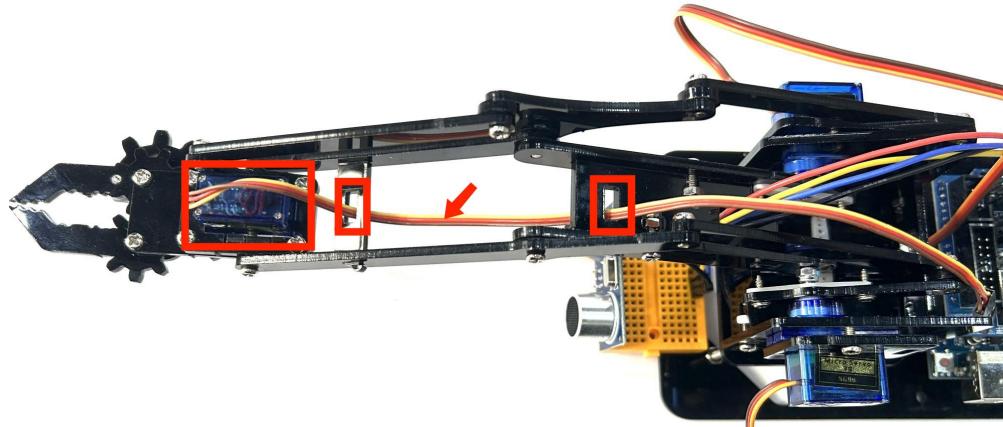
| Ultrasonic wiring | | | |
|-------------------|------|------|-----|
| VCC | TRIG | ECHO | GND |
| V | D4 | D12 | G |

Bottom
steering
engine
wiring

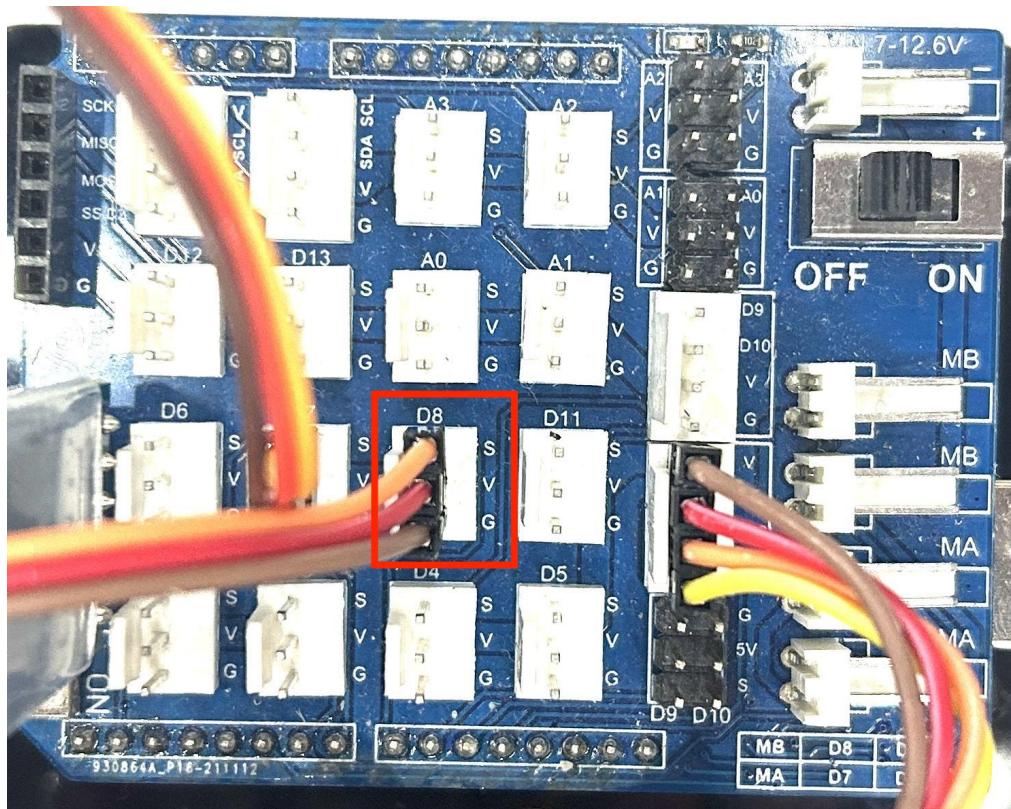
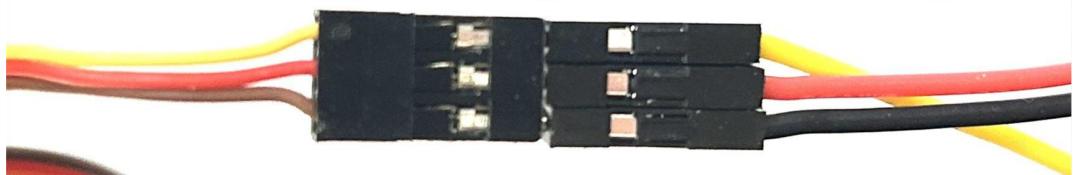


| Bottom steering engine wiring | | |
|-------------------------------|--------|--------|
| brown | red | yellow |
| (D7) G | (D7) V | (D7) S |

Clamp
part
steering
engine
wiring

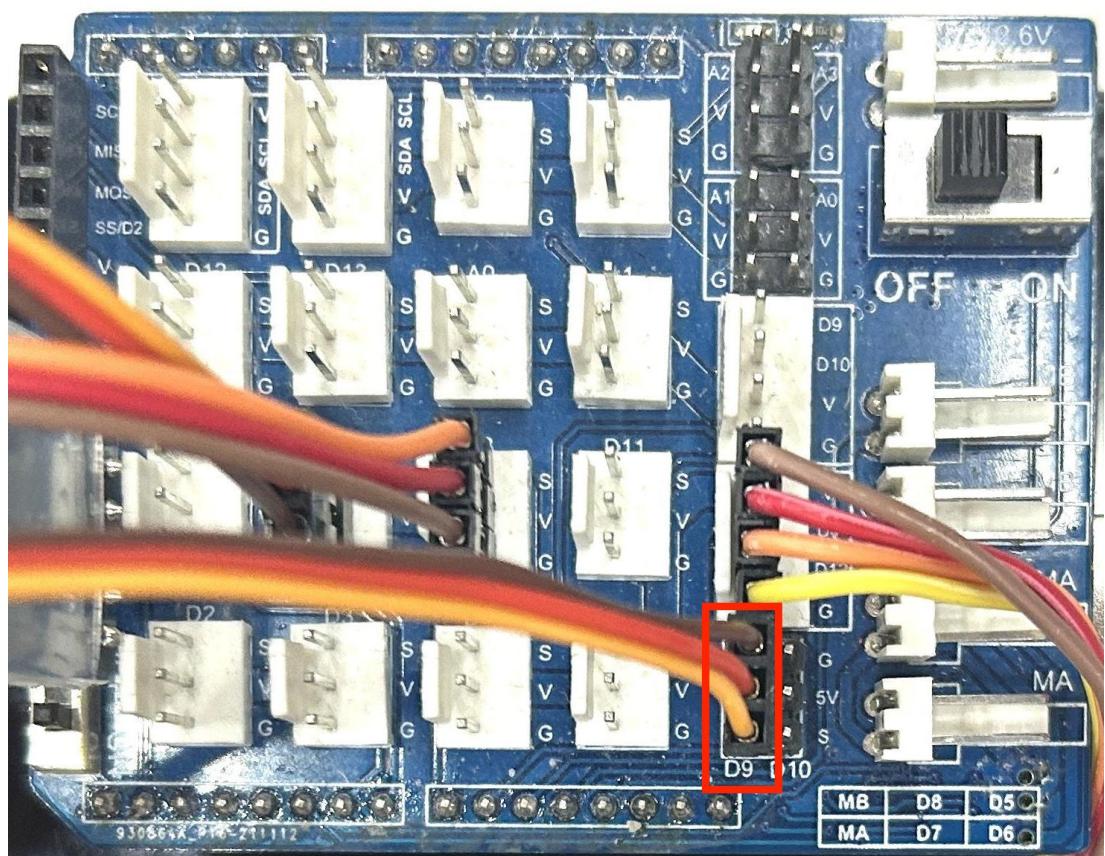


Use DuPont cable to lengthen the connecting line

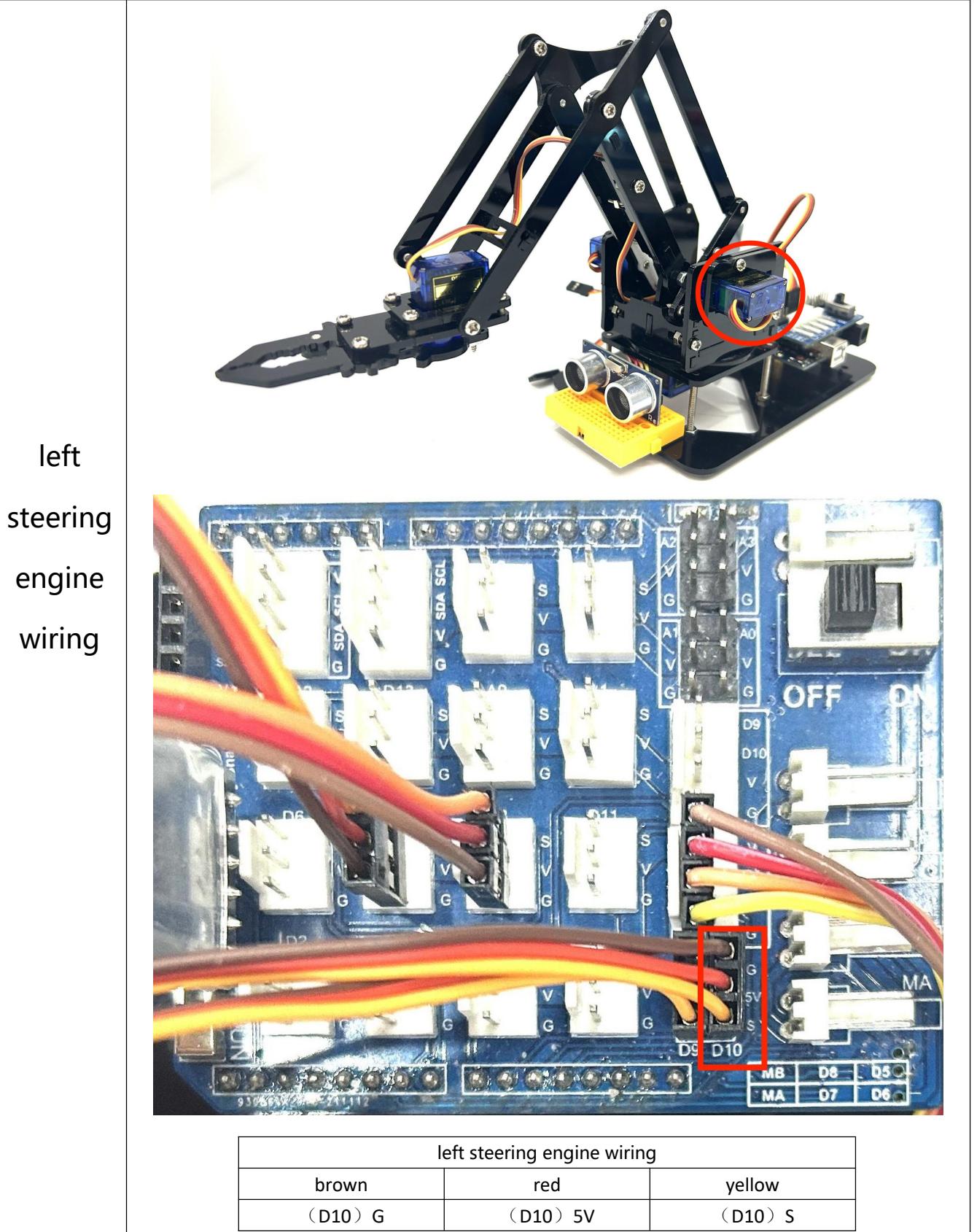


| Clamp part steering engine wiring | | |
|-----------------------------------|--------|--------|
| brown | red | yellow |
| (D8) G | (D8) V | (D8) S |

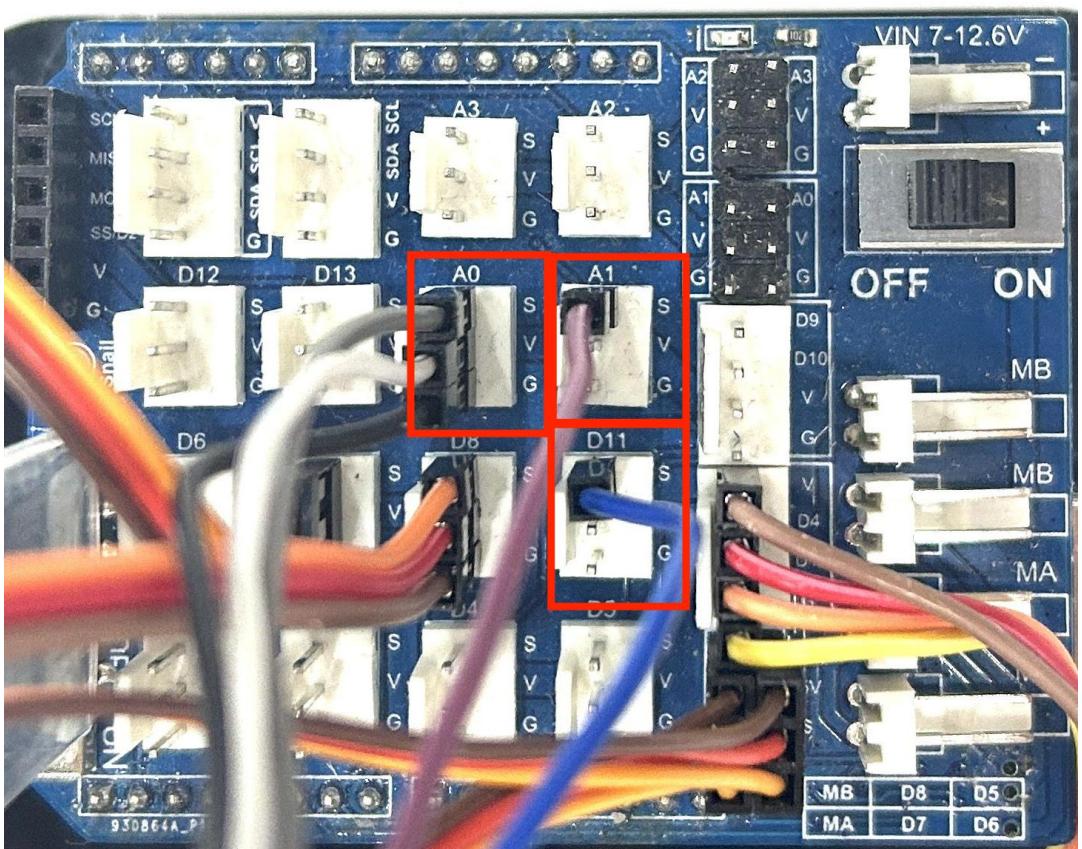
Right
steering
engine
wiring



| Right steering engine wiring | | |
|------------------------------|---------|--------|
| brown | red | yellow |
| (D9) G | (D9) 5V | (D9) S |



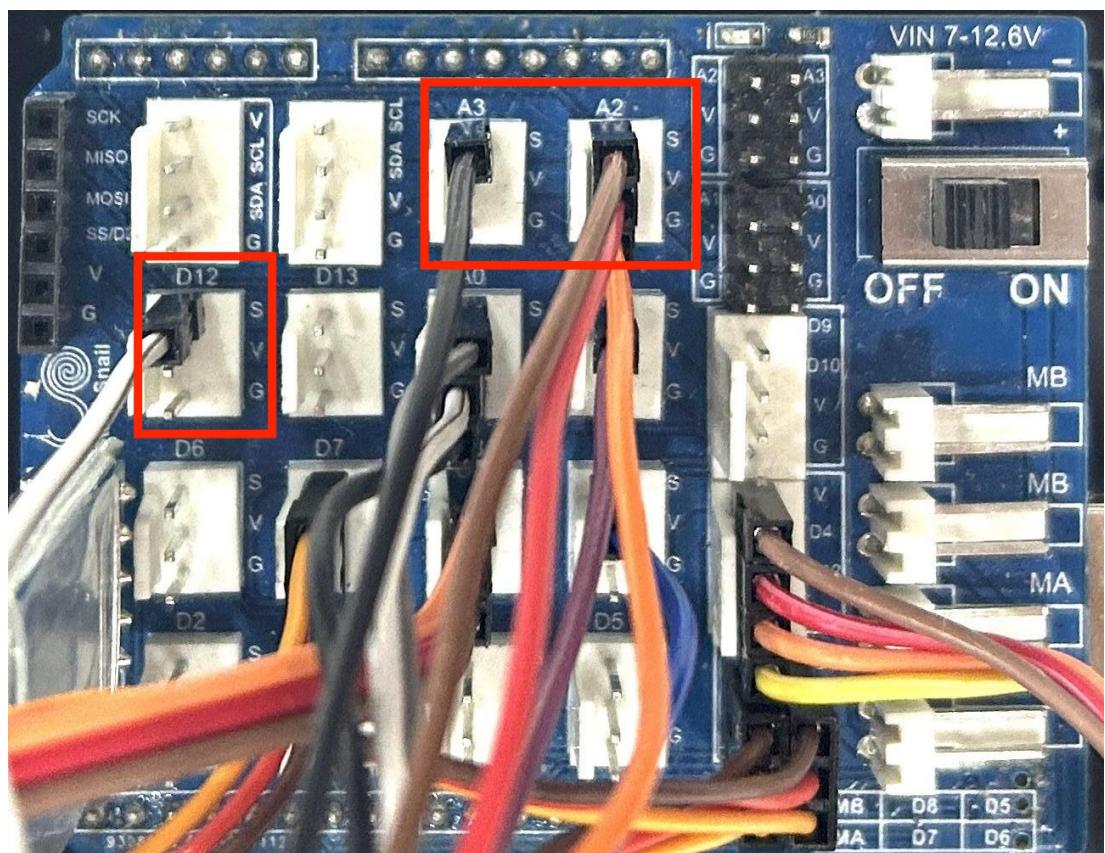
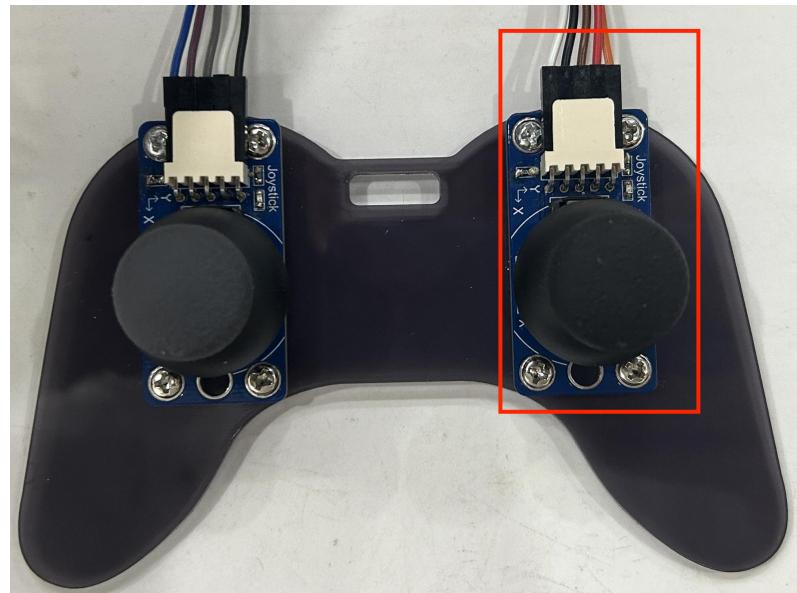
Left
joystick
wiring



Left joystick wiring

| G | V | X | Y | B |
|--------|--------|--------|--------|---------|
| (A0) G | (A0) V | (A0) S | (A1) S | (D11) S |

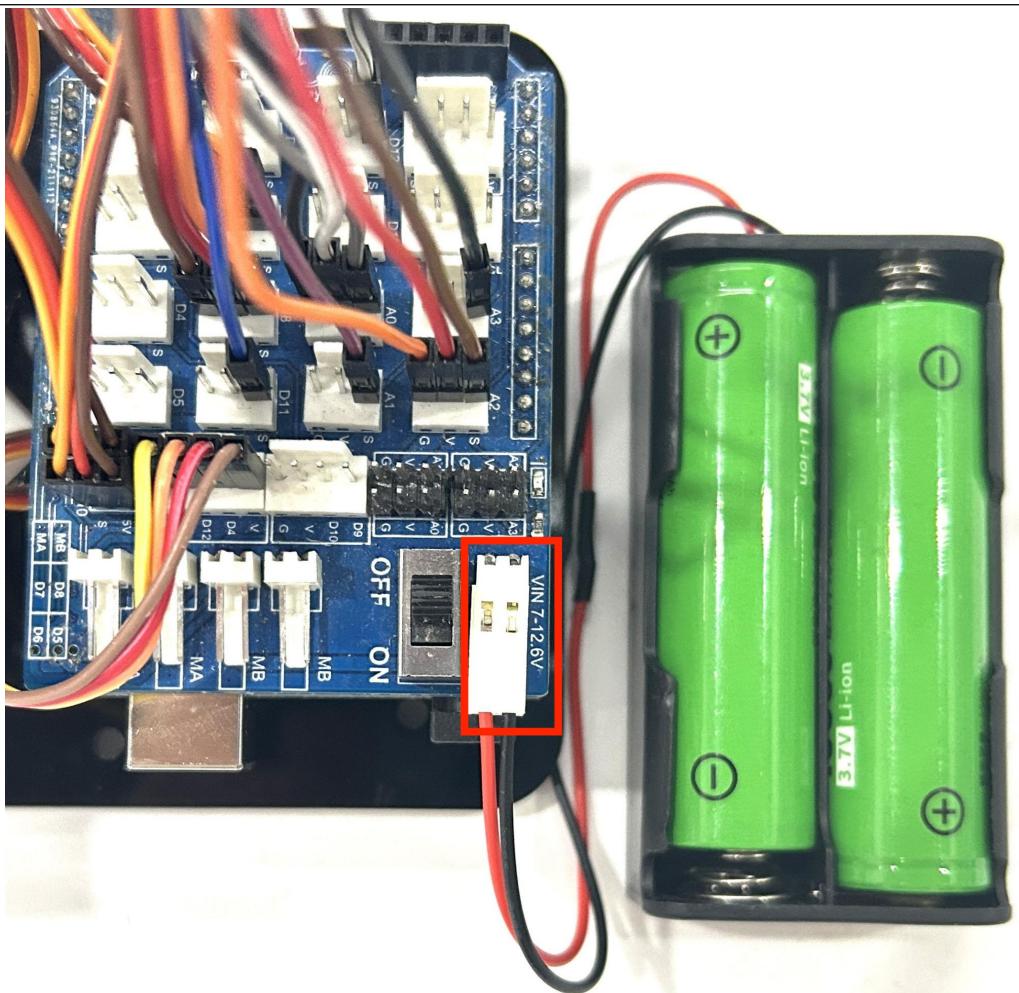
Right
joystick
wiring



Right joystick wiring

| G | V | X | Y | B |
|--------|--------|--------|--------|---------|
| (A2) G | (A2) V | (A2) S | (A3) S | (D12) S |

Power
wiring



complete

