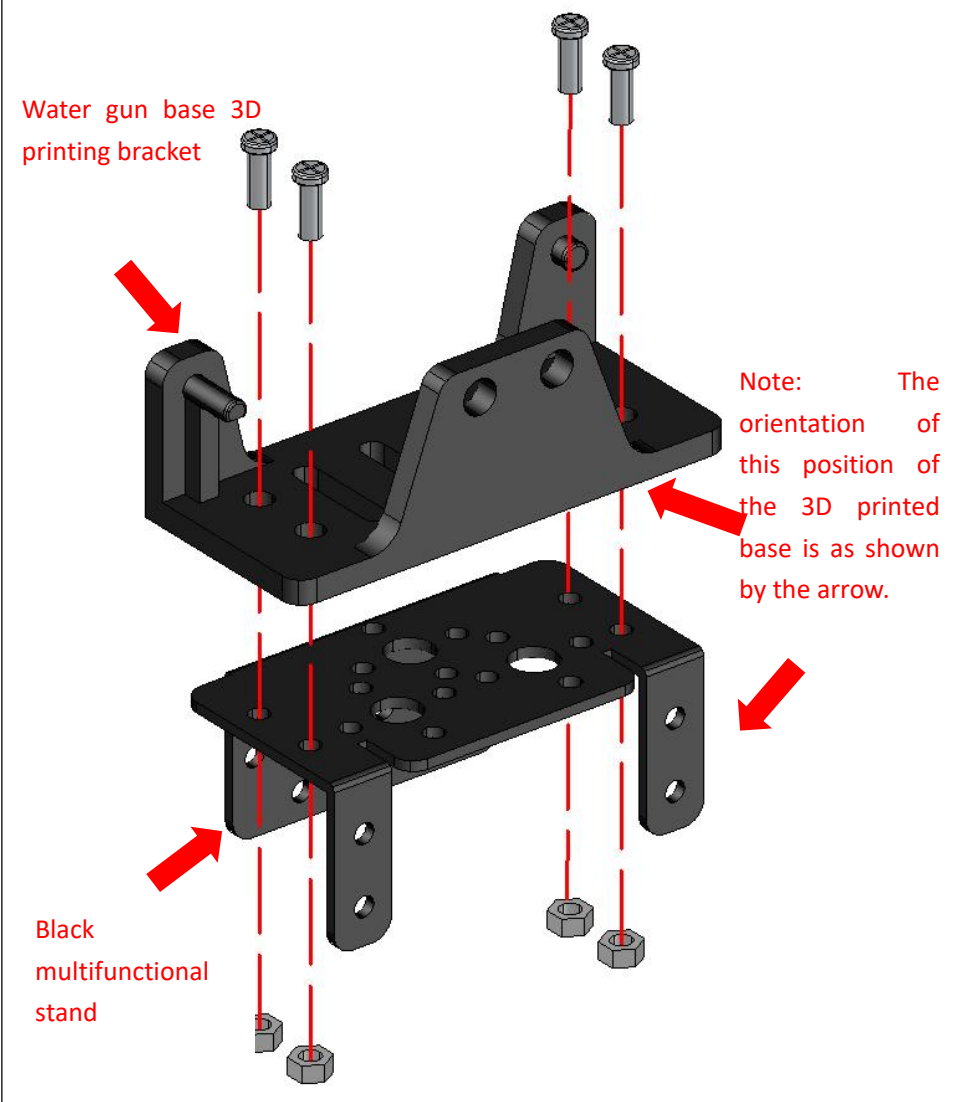
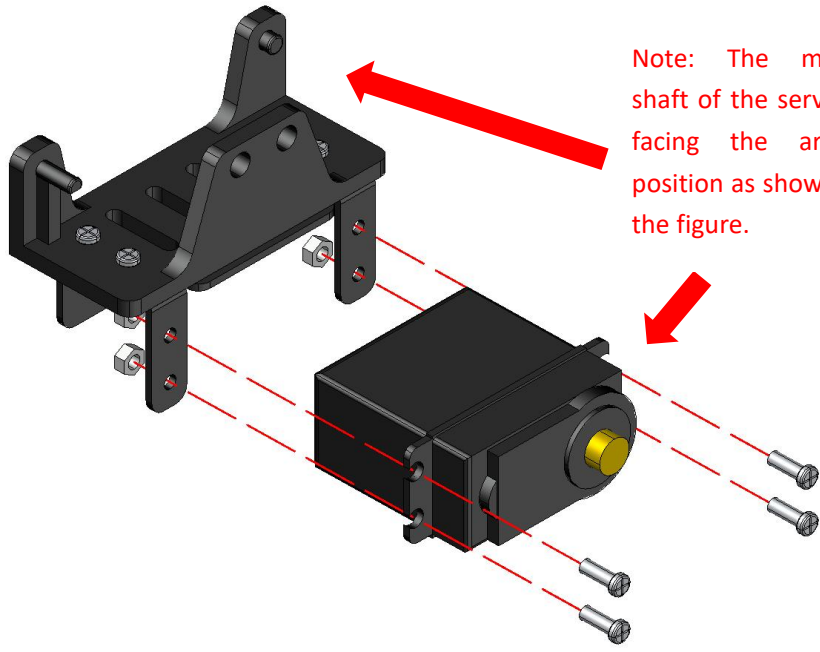
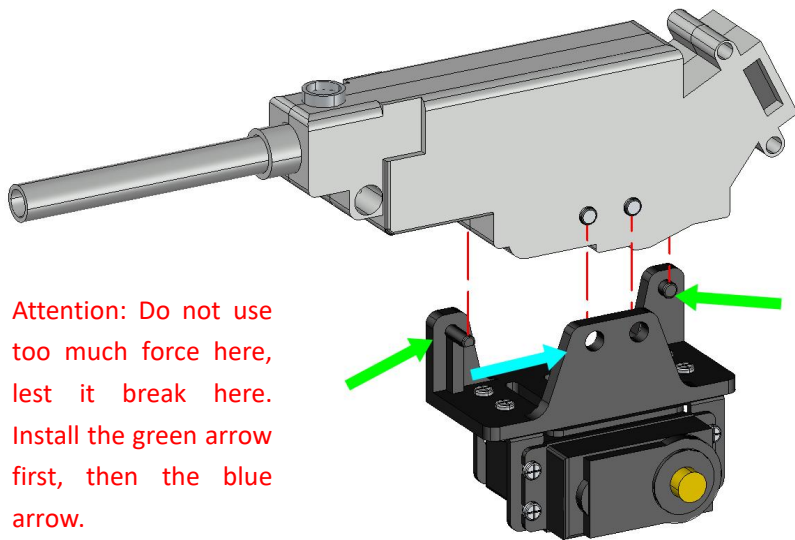


## Step 1 Fixed water gun base and servo bracket

Part Lists	Water gun base 3D printing bracket*1	M3*10MM Round Head Screws*4
	M3 nut*4	Black multifunctional stand*1
Splicing Diagram	 <p>Water gun base 3D printing bracket</p> <p>Note: The orientation of this position of the 3D printed base is as shown by the arrow.</p> <p>Black multifunctional stand</p>	

## Step 2 Install MG995 black servo module

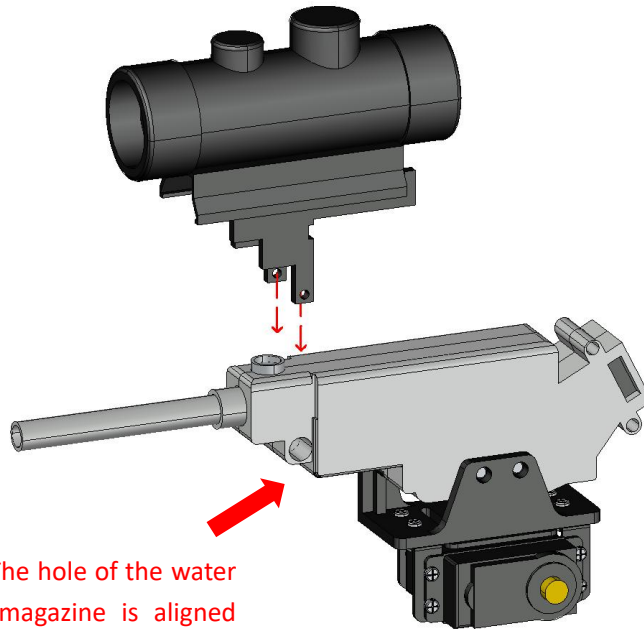
Part Lists	M3*10MM Round Head Screws*4	M3 nut*4	MG995 black servo module*1
Splicing Diagram	 <p>Note: The metal shaft of the servo is facing the arrow position as shown in the figure.</p>		
Notes	<p>The MG995 black servo needs to have the calibration program uploaded. If it has not been calibrated yet, please go back to the QD005 must-read document before use and recalibrate according to the prompts.</p>		

Step 3 Fixed water gun		
Part Lists	water gun*1	Assembled black multifunctional stand
Splicing Diagram	 <p>Attention: Do not use too much force here, lest it break here. Install the green arrow first, then the blue arrow.</p>	
Notes	Attach the corresponding holes and bumps of the water gun to the corresponding positions of the base for fixation. You need to slightly open the 3D printed base of the water gun base with your hands.	

## Step 4 Install water gun magazine

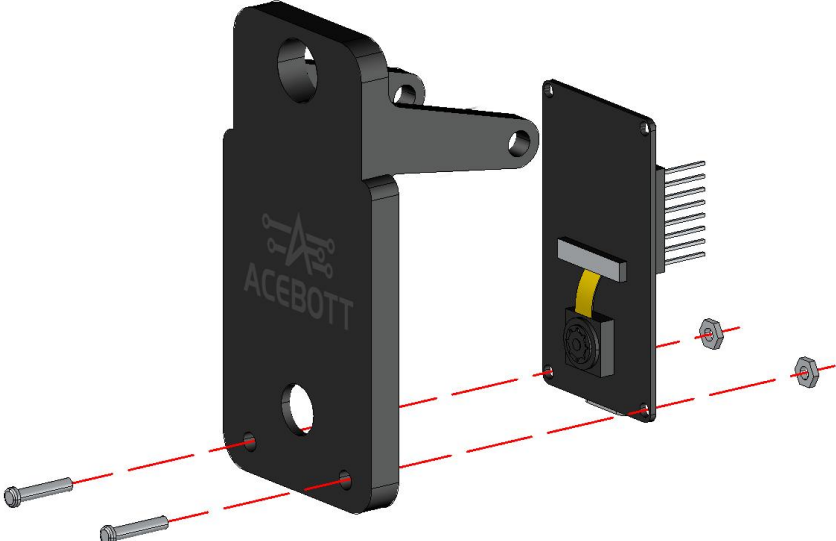
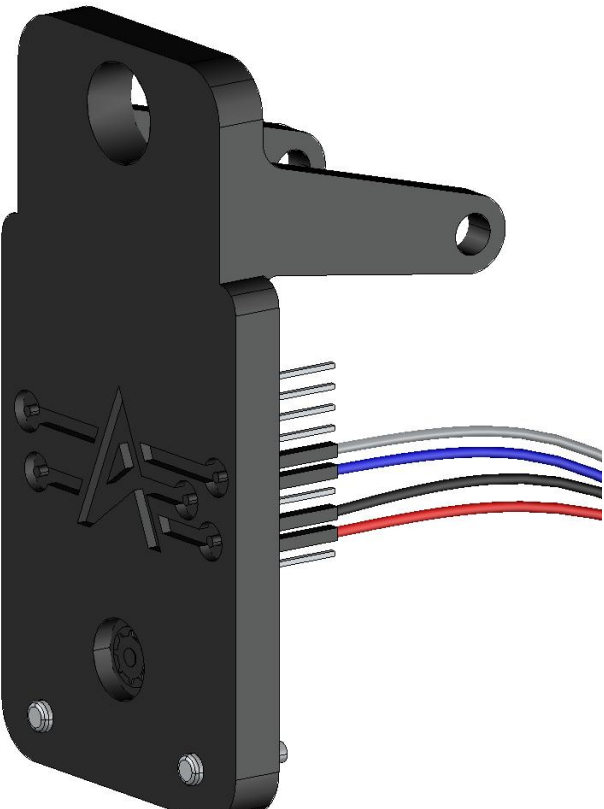
Part Lists

water gun magazine\*1

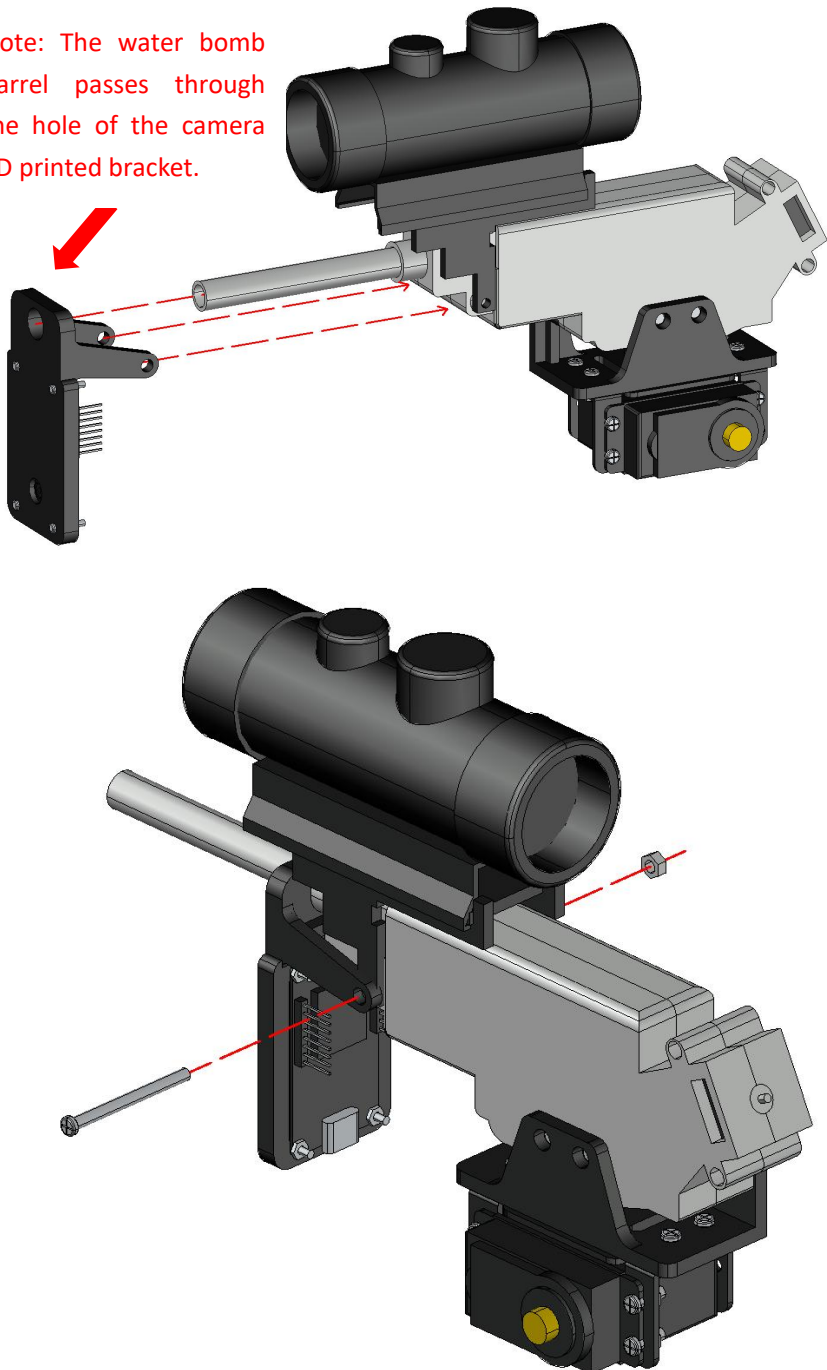
Splicing  
Diagram

Note: The hole of the water bomb magazine is aligned with the arrow hole of the water gun.

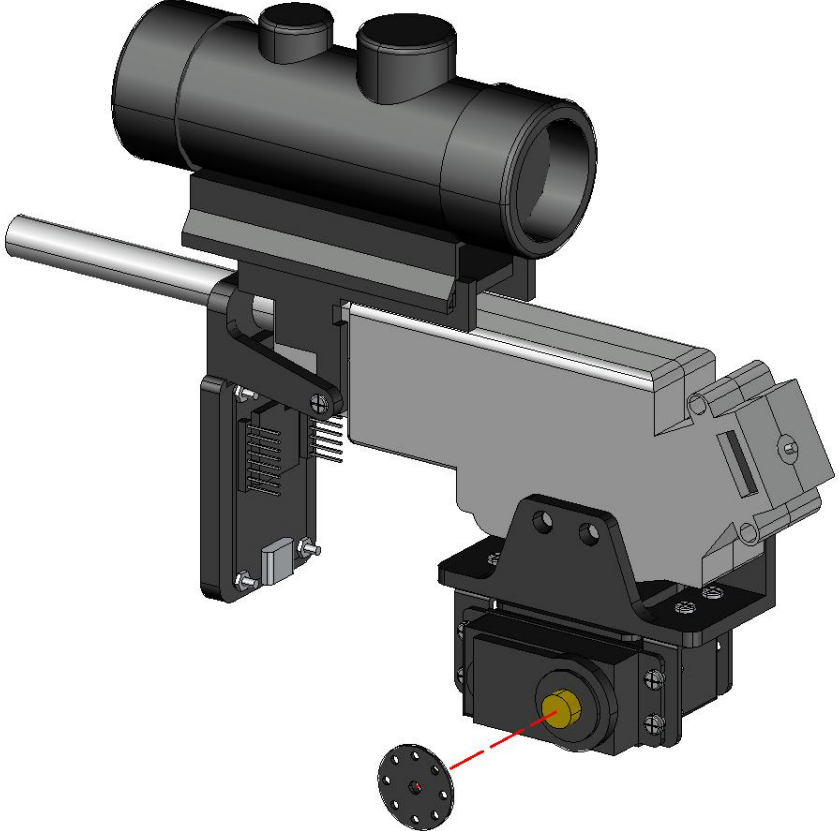
## Step 5 Install the camera module

Part Lists	Camera 3D printing bracket*1	camera module*1
	M2*8 round head screws*2	M2 nut*2
Splicing Diagram		
		

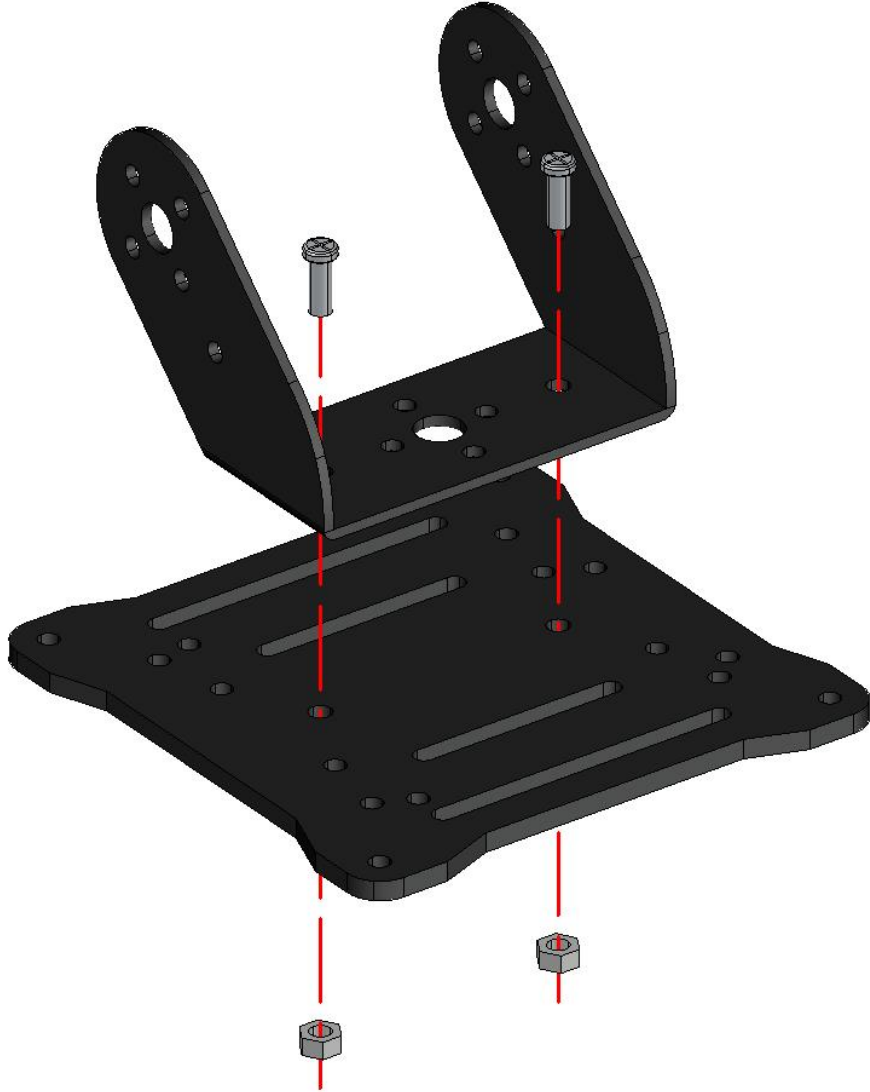
## Step 6 Fix the camera module

Part Lists	M3*35MM round head screws*1	M3 nut*1
Splicing Diagram	<p>Note: The water bomb barrel passes through the hole of the camera 3D printed bracket.</p> 	

## Step 7 Install the servo steering wheel


Part Lists	The assembled water gun structure	round steering wheel*1
Splicing Diagram		

## Step 8 Fixed black inclined U bracket

Part Lists	M3*10MM Round Head Screws*2	M3 nut*2	Expand acrylic board*1
	Black oblique U bracket*1		
Splicing Diagram			



## Step 9 Fix the water gun structure

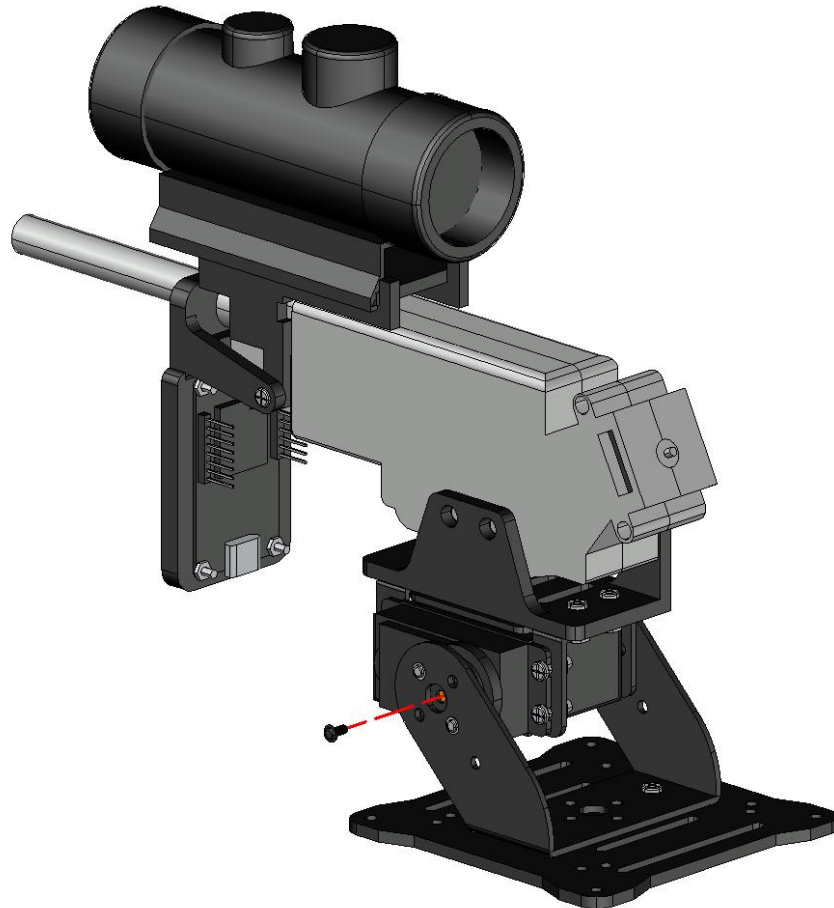
Part Lists	The assembled water gun structure	lack oblique U bracket	M2*8 MM large flat round head self-tapping screws*2
Splicing Diagram	<div><p>Note: The position of the circular steering wheel of the servo is aligned with the hole of the black inclined U bracket.</p><p>At this time, please try to keep the water gun structure in a horizontal position for installation.</p><p>Because there is a deviation in the hole position here, if it cannot be completely horizontal, please install it upward.</p></div> <div></div> <div><p>Note: Install M2*8MM large flat round head self-tapping screws diagonally here.</p></div>		

## Step10 Install the servo fixing screws

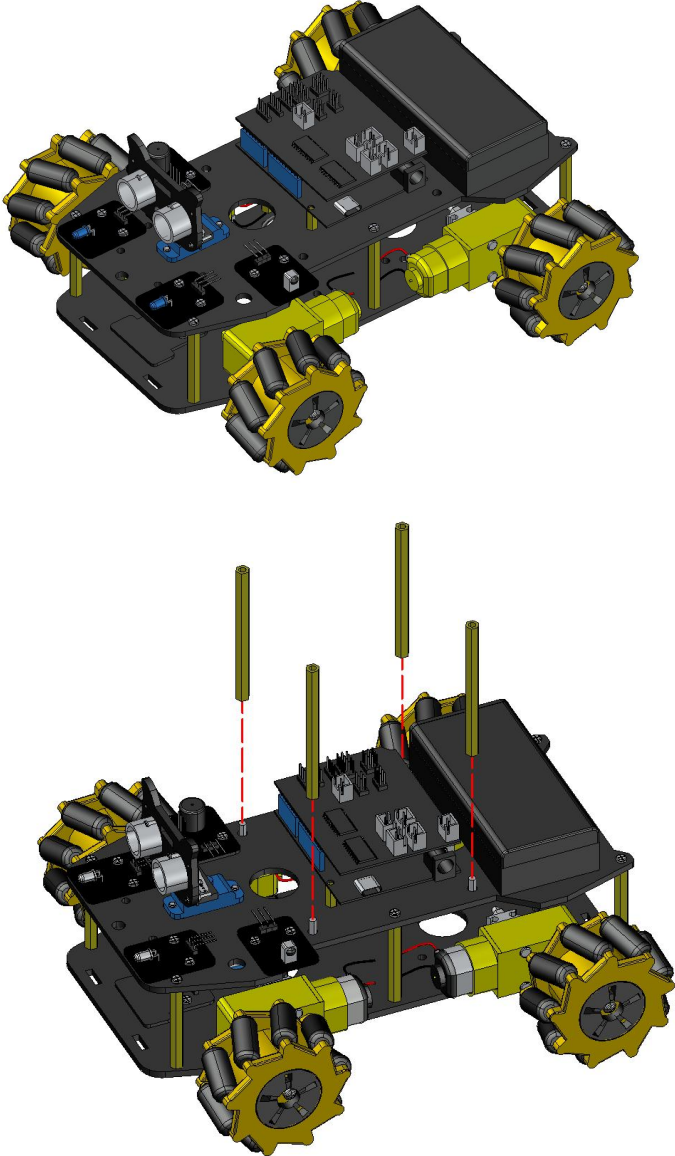
Part Lists

M3\*6MM round head black servo fixing screws\*1

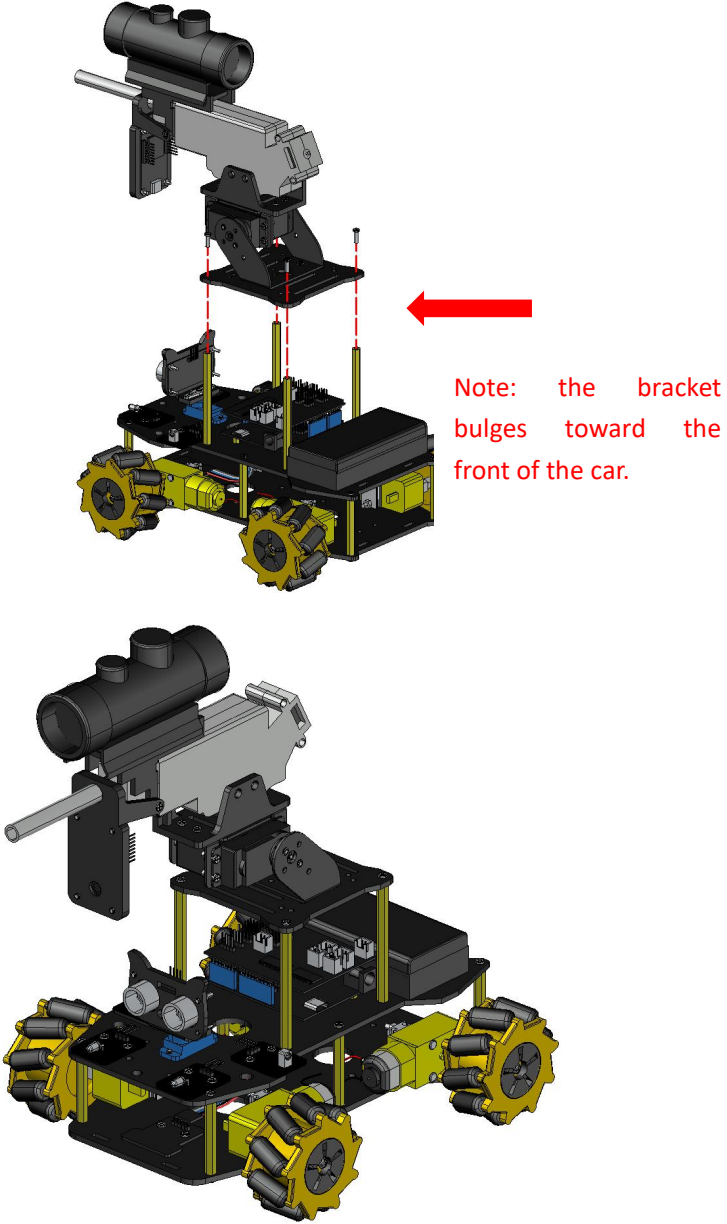
Splicing  
Diagram



## Step 11 Install copper pillars

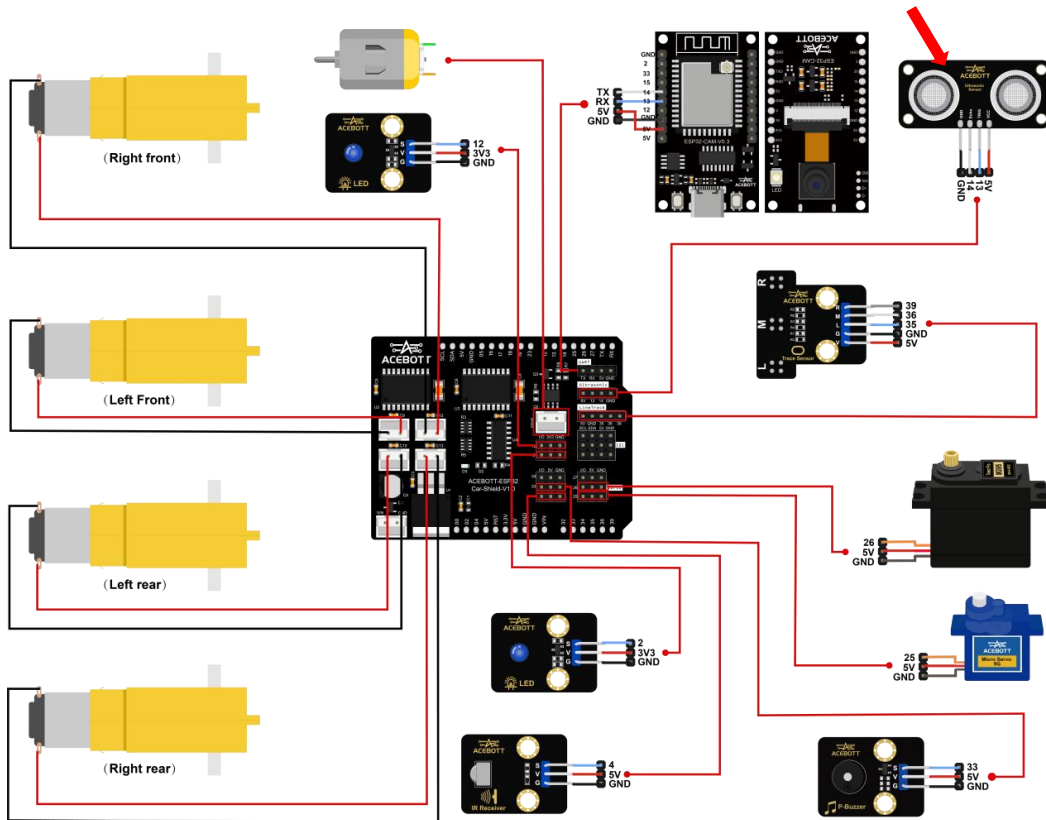
Part Lists	complete car	M3*65 double-pass copper pillar*4
Splicing Diagram		
Notes	Pass the screws through the holes, hold them with your fingers, and then use your other hand to tighten and secure the M3*65 double-pass copper pillar.	

## Step 12 Assemble the water gun to the car body

Part Lists	M3*10MM Round Head Screws*4	The assembled water gun structure
Splicing Diagram	 <p>Note: the bracket bulges toward the front of the car.</p>	
Note	Before locking the screws, you can refer to the Step13 wiring diagram to complete the wiring of the water bullet gun cart.	

## Step 13 Wiring

Attention: The ultrasonic sensor may have different hardware versions, so it needs to be connected according to the actual pin identification.



1.The color of DuPont wire is blue, red and black. The blue wire is connected to the S pin, the red wire is connected to the V pin, and the black wire is connected to the G pin;

2.The color of the servo wire is different from the ordinary DuPont wire. The red wire is connected to the V pin, the brown wire is connected to the G pin, and the yellow wire is connected to the S pin;

3.Ultrasonic wire, the red wire is connected to the V pin, the white wire is connected to the ECHO pin, the blue wire is connected to the TRIG pin, and the black wire is connected to the GND pin;

4.For the tracking sensor wires, connect the red wire to the 5V pin, the black wire to the GND pin, the blue wire to the L pin, the white wire to the M pin, and the gray wire to the R pin;

5.Pin 14 of the camera module is connected to the TX pin of the esp32 motherboard, and pin 13 is connected to the RX pin of the esp32 motherboard.