

Assembly of Dancing Robot



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After-sales: If you have any question or suggestion about our company, products or manual, please contact us at cokoino@outlook.com/

Parts List

	NANO board*1	ADAMA AS II 10 7 5 5 4 3 2	NANO shield*1
	Bluetooth module*1		infrared remote control*1
ік соколио	RGB LED module*1		USB Cable*1
Hill Mile State Control of the Contr	18650 battery case*1	A A A A A A A A A A A A A A A A A A A	A pair of Acrylic sheet
	P1.2*4mm self-tapping screw*36	THURWANDAME: THURWANDAME:	M1.6*10mm round head screw*4
Total Rent Leave Land	SG90 Servo*4		M3*30mm copper column*4
	M3*12mm countersunk head screw*2		4PIN -70mm cable*1
	M1.6 nut*4		Φ3*3mm nylon column*4
	M3*10mm countersunk head screw*7	**************************************	M2*8mm round head screw *8
	M2 nut		M3*10mm copper column*4

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	M3*6mm countersunk head screw*4	M3 nut*11
	M3 self-locking screw*2	ф3*8*4 flange bearing F693ZZ*2
	4mm black winding tube(20cm)	cross sleeve*1
	M2 Phillips screwdriver	M3 Phillips screwdriver

Note:Please initialize the servo motor before installation.

Start assembly

1. Before assembly, we need to use a screwdriver to peel off the acrylic sheet



Step 1: Assembling the LED light module

Tool:

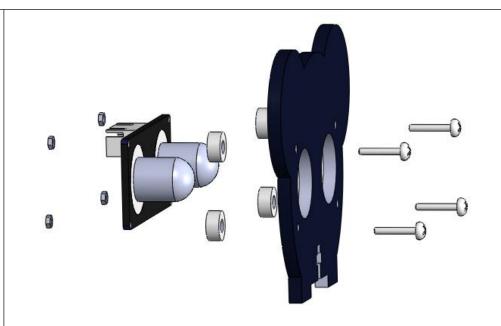
Need to prepare:

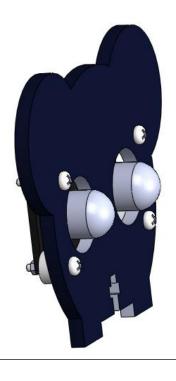
acrylic plate A	1	
φ3*3mm nylon column	4	
M1.6*10mm round head screw	4	G_www.man
M1.6nut	4	

Demo:

According to the instructions of the picture, assemble the LED module, the nylon column and the acrylic plate A in sequence, and fix them with the M1.6*10 round head screw and the M1.6 nut;

Note that the cable interface of the LED module is on the top





Step 2: Assembling the acrylic plate B

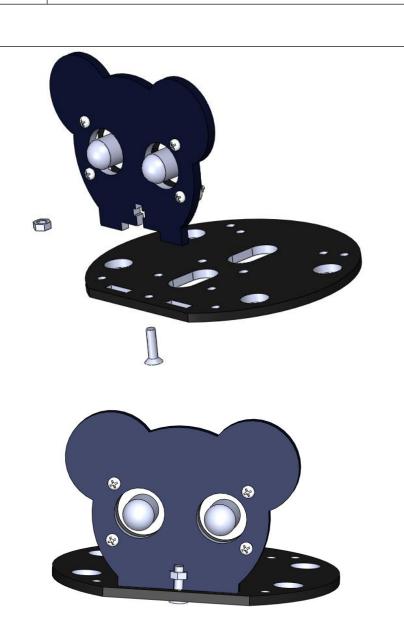
Tool:

Need to prepare:

acrylic plate B	1	
M3*10mm countersunk head screw	1	
M3 nut	1	
Step 1 structure	1	

Demo:

According to the instructions of the picture, assemble acrylic plate B and Step 1 structure with M3*10mm countersunk head screw and M3 mm nut



Step 3: Assembling M3*10

hexagonal copper column

Tool:

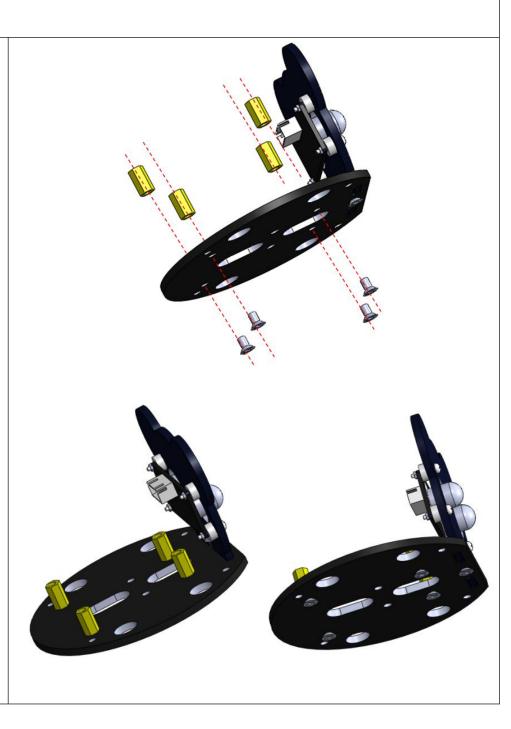
Need to prepare:

M3*6mm countersunk head screw	4	
M3*10mm copper column	4	
Step 2 structure	1	

Demo:

Fix the coupling to the motor shaft using a set screw;

Note that the step of the coupling corresponds to the step surface of the motor shaft



Step 4: Assembling the wheels Tool: **Need to prepare:** 18650 battery case 1 M3 nut 2 M3*10mm countersunk head screw 2 Step 3 structure 1 Demo: Install the 18650 battery case on the Step 3 structure using the M3*10 countersunk screws and the M3 nuts; Please pay attention to the installation direction of 18650 battery box (3)

Step 5: Assembling the NANO shield Tool: Need to prepare: M3*6 round head screw 4 **NANO** shield 1 Step 4 structure 1 Demo: Install the NANO shield on the step 4 structure using M3*6 round head screws;

Step 6: Assembling the servos of the robot's legs

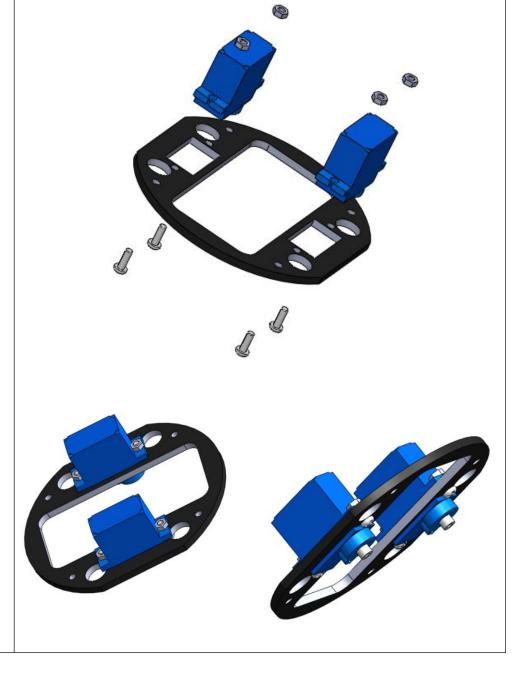
Tool:

Need to prepare:

Acrylic Structure c	1	
M2*8mm round head screw	4	
M2 nut	4	
Servo	2	

The servo is mounted on the structural member C using M2*8 round head screws and an M2 nuts;

Note that the installation direction of the servo need to be same.



Step 7: Assembling steering gear cross bracket

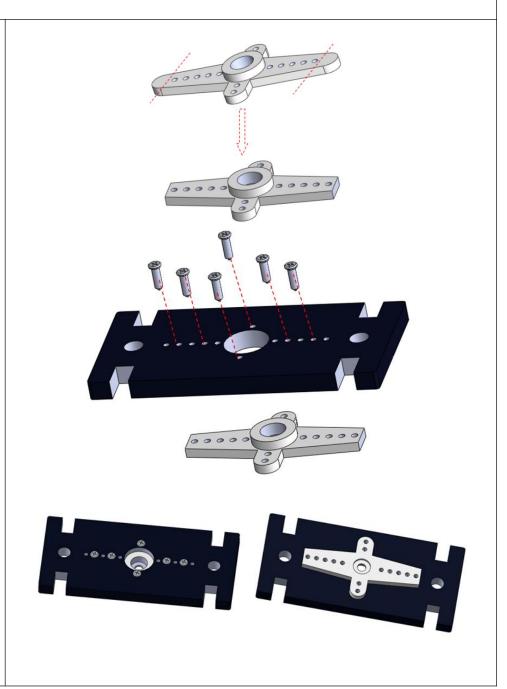
Tool:

Need to prepare:

	1	1
Rudder cross bracket	2	3)
P1.2*4mm self-tapping screw	12	Q uuu-
Acrylic Structure d	2	••

<u>Demo:</u>

- 1. Use scissors to cut off the excess along the red dotted line
- 2. Please pay attention to the installation direction of the cross



Step 8: Assembling the servo

bracket of the robot's leg

Tool:

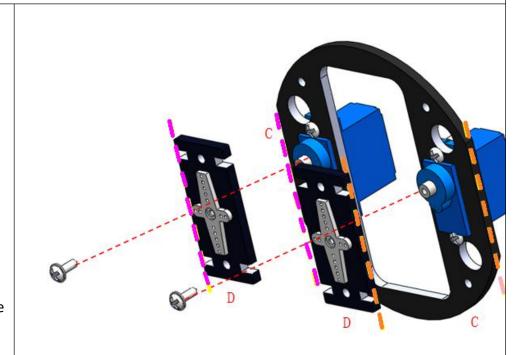
Need to prepare:

Semi-finished product of step 6	1	
Semi-finished product of step 7	2	
Self-contained screw of the servo	2	&

Demo:

Special attention: 1. When installing the cross on the steering shaft, make sure that the structure D is parallel to the side of the structure C.

That is, the yellow and orange dotted lines are marked;





Step 9: Assembling the M3*30

hexagonal copper column

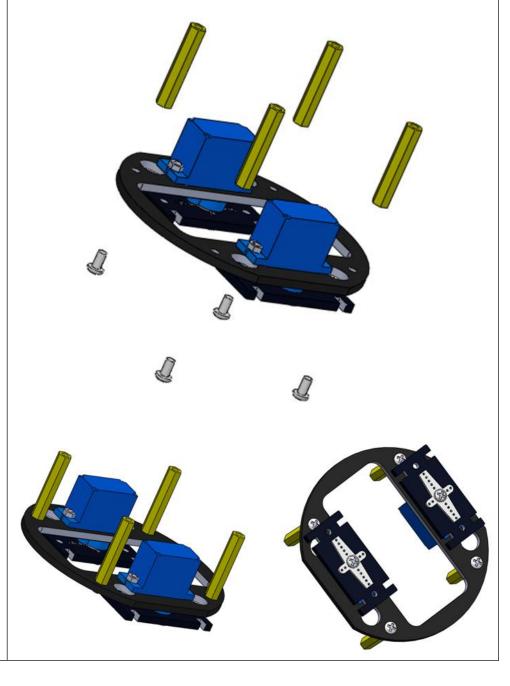
Tool:

Need to prepare:

Semi-finished product of step 8	1	
M3*30mm copper column	4	
M3*6mm round head screw	4	£=====

Demo:

Fix M3*30 hexagonal copper columns on Semi-finished product of step 8 with M3*6 round head screws



Step 10: Assembling Acrylic

structure E and acrylic structure F



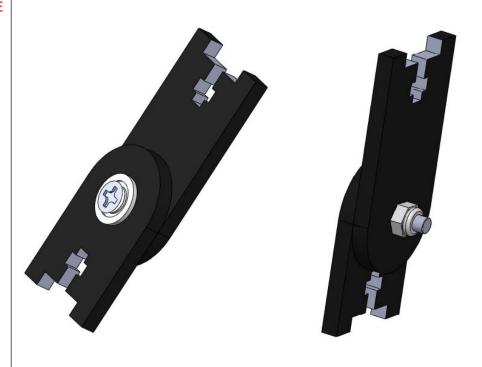
Need to prepare:

acrylic structure F	2	F.O
acrylic structure E	2	-
M3*12mm countersunk head screw	2	
Φ 3*8*4 flange bearing F693ZZ	2	
M3 self-locking screw	2	

Demo:



Note the installation order of structure E and structure F



Step 11: Assembling the servo of the left foot of the robot

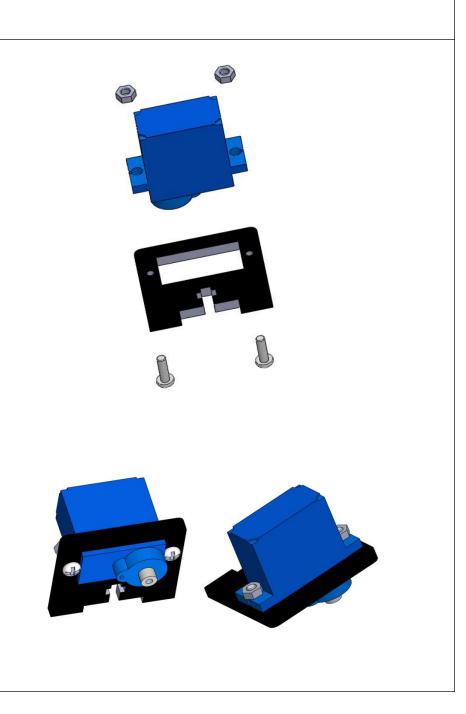
Tool:

Need to prepare:

acrylic structure G	1	
SG90 servo motor	1	
M2*8mm round head screw	2	
M2 nut	2	

Demo:

Pay attention to the installation direction of the steering gear



Step 12: Assembling the left foot of the robot

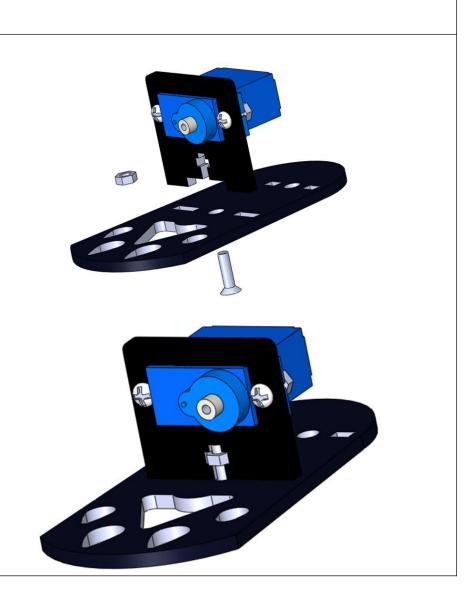
Tool:

Need to prepare:

acrylic structure H	1	
M3*10mm countersunk head screw	1	
M3 nut	1	
Semi-finished product of step 11	1	

Demo:

Pay attention to the installation direction of the structural member H



Step 13: Assembling step 12

semi-finished product and step 14

semi-finished product

Tool:

Need to prepare:

Semi-finished product of step 10	1	
Semi-finished product of step 12	1	
M3*10mm countersunk head screw	1	
M3 nut	1	

Demo:

Use the M3*10 countersunk screw and M3 nut to install the Semi-finished product of step 10 and semi-finished product of step 12



Step 14: Assembling the single arm of the servo

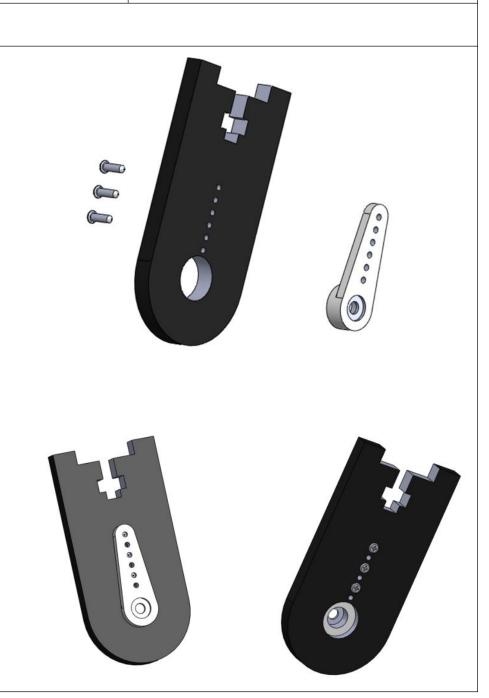
Tool:

Need to prepare:

acrylic sheet E	2	
Step 12 structure	6	O
M3*10mm round head screw	2	-

Demo:

Pay attention to the direction of the arm bracket of the steering gear



Step 15: Assembling step 13

semi-finished product and step 14

semi-finished producte

Tool:

Need to prepare:

Step 11 structure	1	
Step 13 structure	1	©
Self-contained screw for the steering gear	1	S

Demo:

pecial attention: 1. When installing the one-arm bracket to the steering gear shaft, make sure that the structure K is parallel to the side of the structure G. View the yellow dotted line on the right; 2. If the servo is not initialized, please initialize the servo according to the pre-assembly tutorial. After initialization, do not turn the servo motor before installing this mechanism.



Step 16: Assembling the

18.robot's left leg and body

Tool:

Need to prepare:

Semi-finished product of step 9	1	
Semi-finished product of step 15	1	
M3*10mm round head screw	2	
M3 mm nut	2	

Demo:

Rotating Acrylic D makes it easier to install screws and nuts;



Step 17: Assembling the servo of the left foot of Tool: the robot **Need to prepare:** acrylic structure G 1 SG90 servo motor 1 M2*8mm round head screw 2 2 M2 nut Demo: Pay attention to the installation direction of the servo

Step 18: Assembling the right foot

Tool:

Need to prepare:

acrylic structure G	1	
M3*6mm countersunk head screw	1	
M3 nut	1	
Semi-finished product of step17	1	

<u>Demo:</u>

Pay attention to the installation direction of the acrylic structural member H





Step 19: Assembling the right leg V1

Tool:

Need to prepare:

Semi-finished product of step 14	1	
Semi-finished product of step 18	1	
M3*6mm countersunk head screw	1	
M3 nut	1	

<u>Demo:</u>

Note the installation direction of the semi-finished product in step 10



Step 20: Assembling the right leg V2

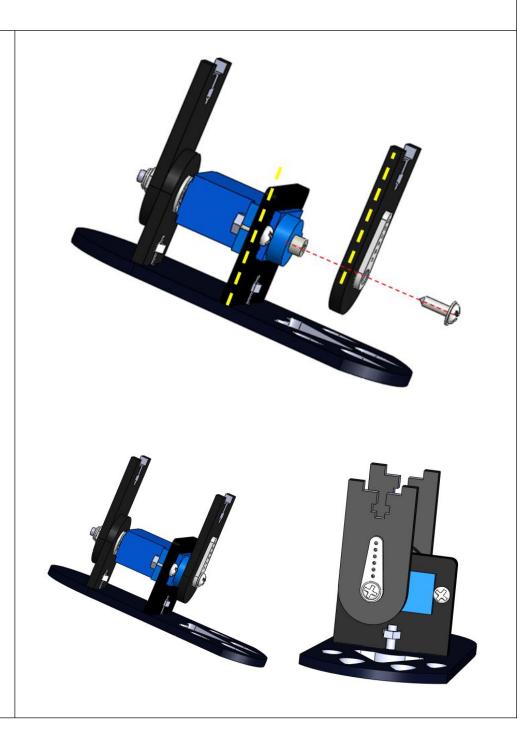
Tool:

Need to prepare:

Semi-finished product of step 19	1	
Semi-finished product of step 14	1	©
Self-contained screw for servo	1	

<u>Demo:</u>

Pay attention to the installation direction of the acrylic structural member H



Step 21: Assembling the right foot

Tool:

Need to prepare:

Semi-finished product of step 20	1	
Semi-finished product of step 16	1	
M3*10mm round head screw	2	
M3 mm nut	2	

<u>Demo:</u>

You can make the installation of screws and nuts easy by rotating the structural member D;





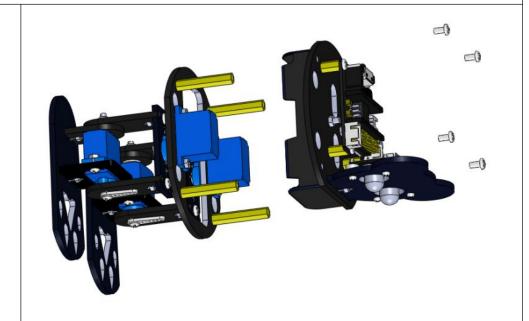
Step 22: Assembling the upper and lower parts of the robot

Tool:

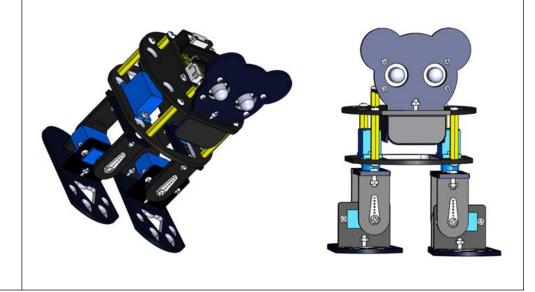
Need to prepare:

upper and lower parts of the robot 21	1	
upper and lower parts of the robot 5	1	
M3*6mm round head screw	4	(Community)

Demo:



Pay attention to the installation direction of the acrylic structural member H



Step 23: Install Bluetooth module and

NANO board

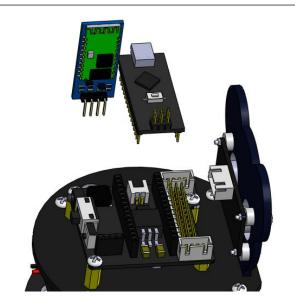


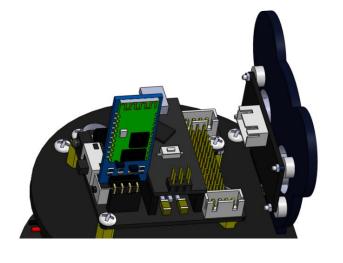
Need to prepare:

semi-finished product of step 22	1	
Bluetooth module	1	
NANO board	1	DIS SCHOOL OF BE THE WAY OF SEVENCE ON STREET OF THE SCHOOL ON

Demo:

Please pay attention to the installation direction of Bluetooth

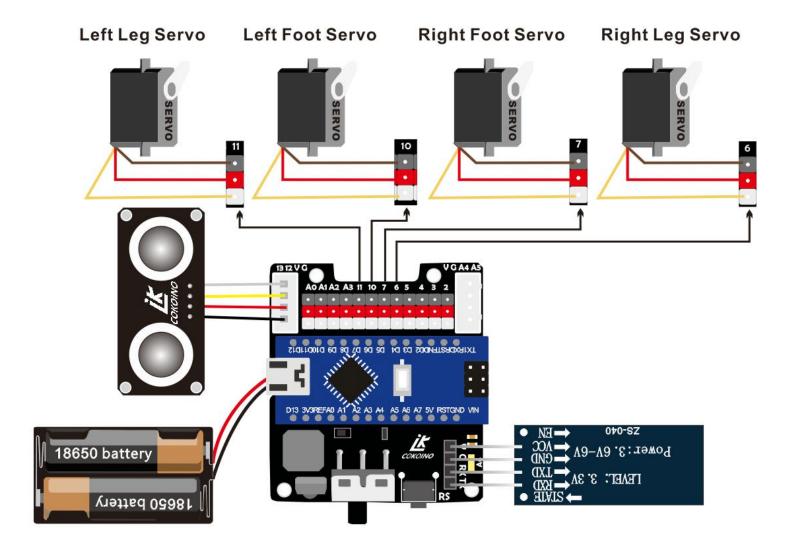




Congratulations, a cool Dancing robot is done.



Wiring diagram



After completing the wiring, please wrap the steering gear with a winding tube, which will make the robot look more beautiful.



