Funnyarm

DIY ROBOTIC ARM KIT FOR ARDUINO

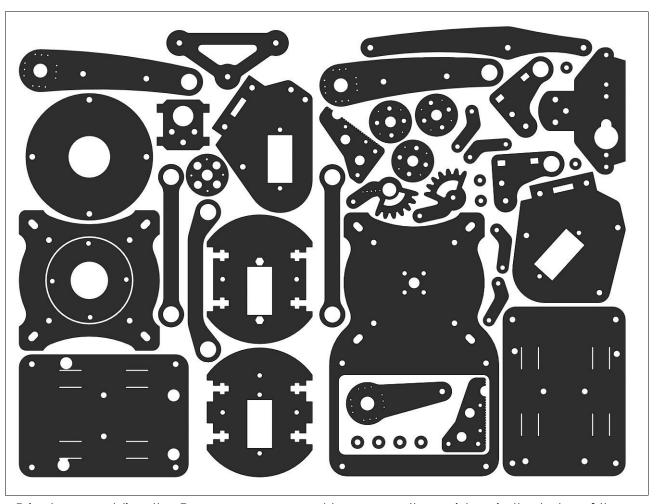
1. ntroduction

1.1 Overview

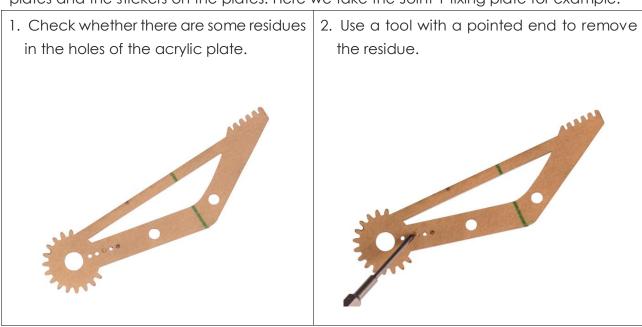


2. Components List

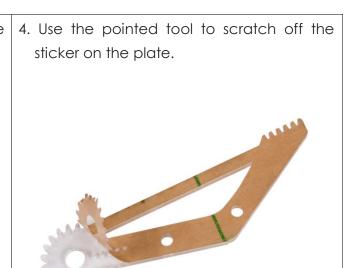
2.1 Acrylic Plates



Prior to assembling the Funnyarm, you need to remove the residues in the holes of the plates and the stickers on the plates. Here we take the Joint 1 fixing plate for example.



3. Make sure that all the residues are cleared.



2.2 Connecting Components

NO	Name	Component	Qty.
1	M1.2*4 Self-tapping Screw		8+2
2	M1.4*8 Self-tapping Screw		4
3	M2*8 Screw	A Milliania	6
4	M2 Nut		6
5	M2.5*12 Screw		2+7

6	M2.5*14 Screw		4
7	M2.5 Nut		4
8	M3*12 Flat-Head Screw Screw	Shame.	6
9	M3*10 Screw		23+3
10	M3 Nut		14+3
11	M3 Self-locking Nuts		9
12	M3*9+6 Single copper pillar		4
13	M3*18 Double pillar		1

14	M3*20 Double pillar	6
15	φ 3x8x0.9 Gasket	1
16	φ 3* φ 8*4 Band Edge Bearing	9
17	Bearing	1

2.3 Electronic Components

	Name	Component	Qty.
18	3 X Servo (9g)		3
19	18650*2 Battery Holder		1

2.4 Tools (not included)

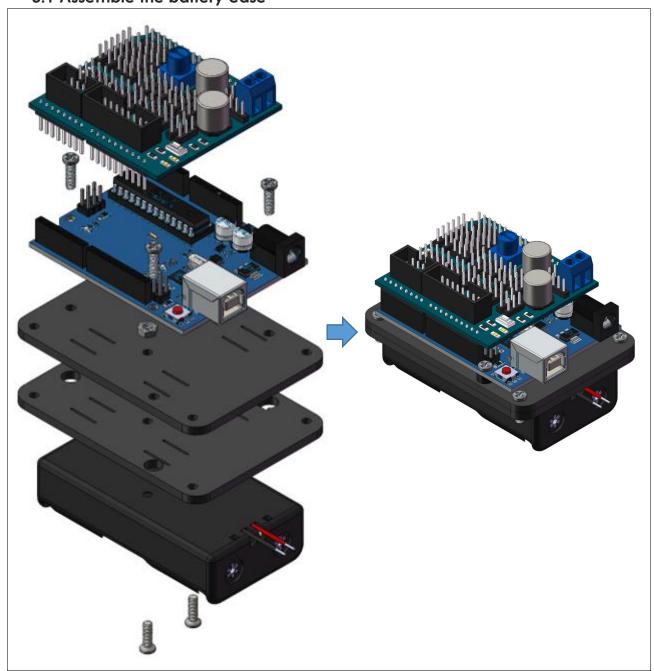


The paw components (not include, sold separately)

21+22	M2*8 Screw + M2		Fix the servo	2+2+4
	Nut+Acrylic gasket	+ +		
23+24	M2.5*12			
	Screw + M2.5 Self-	+	Fix the paw	7+7
	locking Nuts nut			
25+26	M3*10 Screw + M3 Nut	+	Fix the paw	3+3

3. Assembly

3.1 Assemble the battery case



NO.	Name	Pic	Action	Qty
9+10	M3*10 Screw +M3 nut	+	Fix the UNO Board	2/4+2/4

8+10	M3*12 Screw		Fix the battery case	2+2
	+M3 nut	+		
8	M3*12 Flat-Head		Fix the UNO Board Base	2/4
	Screw	3	FIX THE UNO BOOKS base	2/4

NOTE:

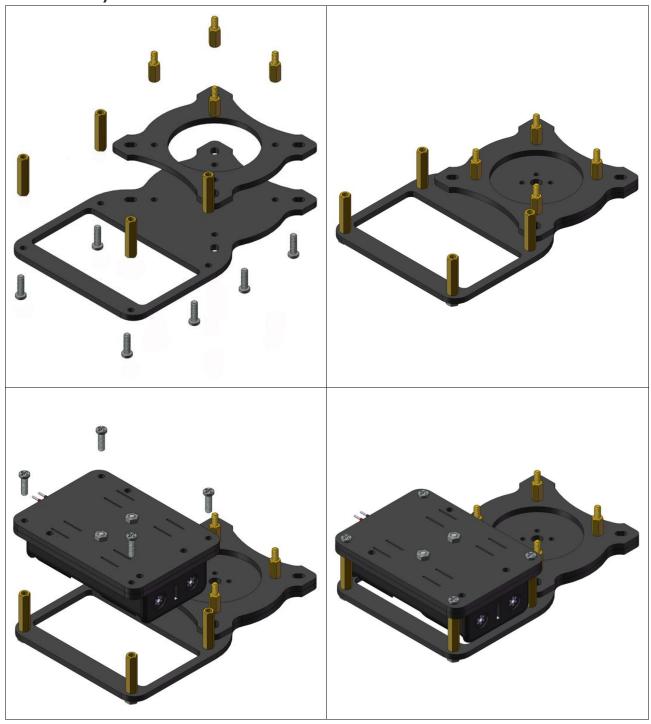
1) Before fixing the UNO board ,you need put 2/4 (2: diagonal) M3*12 Flat-Head Screw on the UNO Board base as the picture:



2) Don't miss the nuts when fixing the battery case:



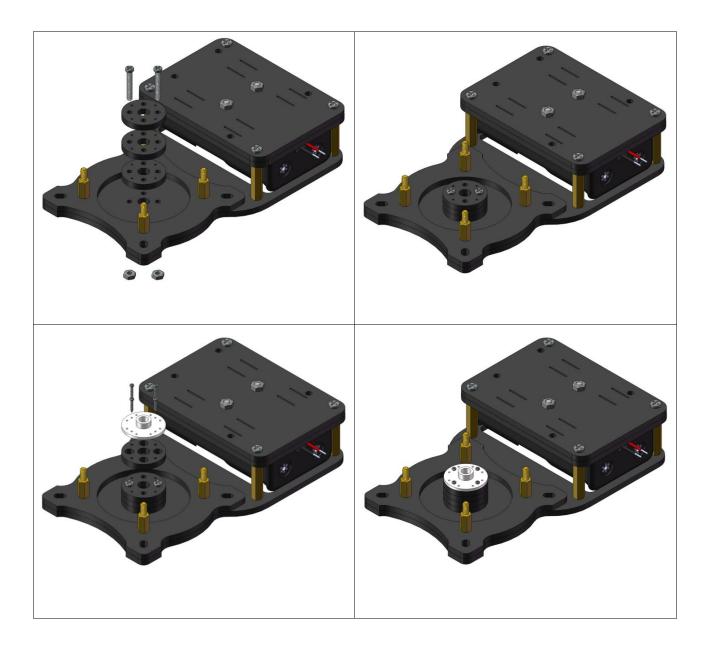
3.2 Battery box + base



12+9	M3*9+6			
	Single copper pillar +		Fix the arm Base	4+4
	M3*10 Screw	T 0		

15+9	M3*20 Double pillar			4+8(4
	+M3*10		Fix the Board	have been
	Screw	+	Base	putted on
				step 3.1)

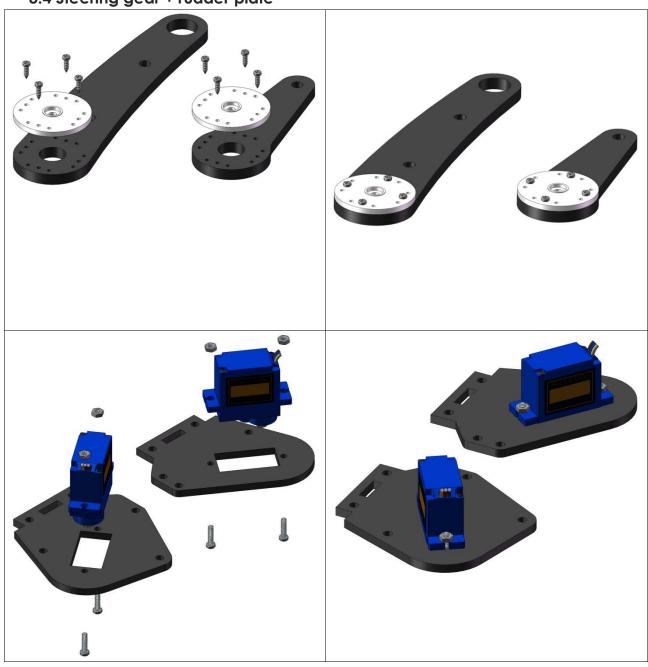
3.3 Base + rudder plate

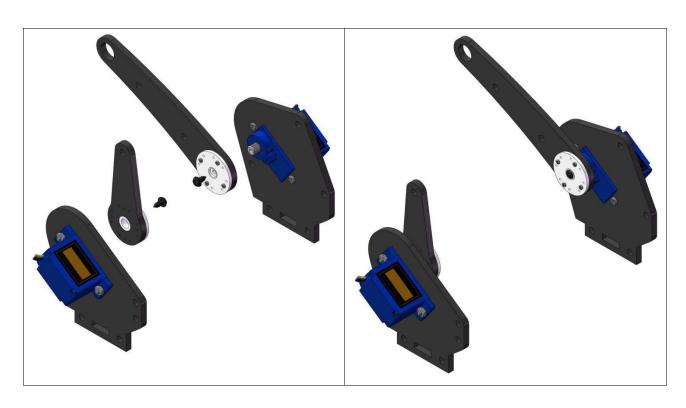




5+7	M2.5*14 Screw+		Fix the small	2+2
5+/	M2.5 Nut	+	turntable	
0	M1.4*8		Fix the Rudder	4
2	Self-tapping Screw	plate	4	
10	A 4.2 N †		Fix the Board	4
10	M3 Nut		Base	4
17	Bearing		Fix the Board Base	1

3.4 Steering gear + rudder plate





1	M1.2*4	Fix the Rudder	8	
I	Self-tapping Screw		plate	
2.4	M2*8 Screw +M2.5		Fix the servo	4+4
3+4	Nut	+		
18	Servo screw (the		Fix the Rudder	2
	smallest)	A. C.	plate	2

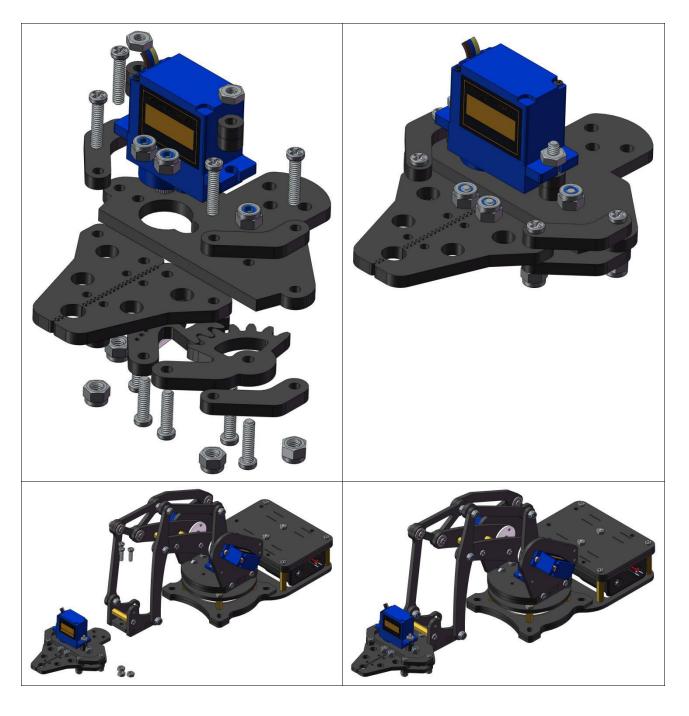
3.5 Base + link





3+4	M2*8 Screw + M2 Nut		Fix the servo	2+2
9+10	M3*10 Screw + M3 Nut		Fix the servo	4+4
6+7	M2.5*14 Screw + M2.5 Nut	+	Fix the servo	2+2
9+14	M3*10 Screw + M3*20 Double pillar	+	Fix the arm	4+2
16+11 +9	φ 3* φ 8*4 Band Edge Bearing+ M3 Self-locking Nuts+ M3*10 Screw		Fix the arm	9+9+
13+15 +9	M3*18 Double pillar + φ 3x8x0.8 Gasket + M3*10 Screw	+ + +	Fix the arm ,here:	1+1+

3.6 Connecting rod + fixture(not include, sold separately)



21+22	M2*8 Screw + M2 Nut+Acrylic gasket	+	Fix the servo	2+2+4
23+24	M2.5*12	+		
	Screw + M2.5 Self-		Fix the paw	7+7
	locking Nuts nut			

25+26	M3*10 Screw + M3 Nut	+	Fix the paw	3+3