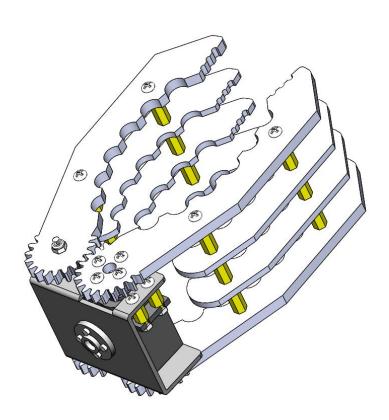


### **Assemble the Mechanical Robot Claw**

#### **Table**

1. What's in the package	2
	4
2. Precautions for assembly	4
3.Assembly	6
4. Make your suggestion and get support	20





## 1. What's in the package

### 1.1 parts used to connect or fix

Picture	Category	Name	Quantity
	Screw	M3*6MM round head screw	12
	Self-locking nut	M3 Self-locking nut	5
	Screw	M3*8MM round head screw	14
	Screw	Nut M3	6
	copper pillar	M3*16 double-pass copper column	5
	copper pillar	M3*10+6 single-pass copper column	5



	copper pillar	M3*15+6 single-pass copper column	9
	holder	MG996R servo U-shaped holder	1
	Servo	MG996R servo	1
	Servo panel	T25-Servo panel	2
	Bearing	F619/3Z Bearing	1
	Acrylic	Acrylic structural component A	1
Z	Acrylic	Acrylic structural component B	2



Acrylic	Acrylic structural component C	4
Acrylic	Acrylic structural component D	1

#### 1.3 Tool

Picture	Category	Name	Quantity
	wrench	M3 wrench	1
100datatata	screwdriver	M3 Phillips screwdriver	1

### 2. Precautions for assembly

2.1 Before assembling the servo to the servo holder, please make sure that the servo has been adjusted to 90 degrees.

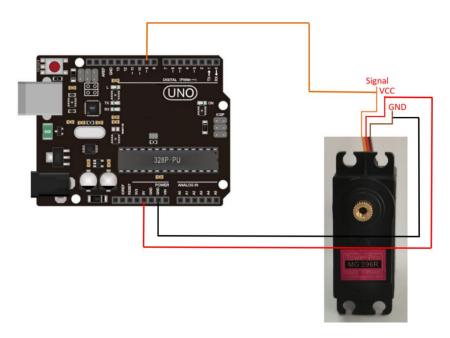
Below is the code and connect circuit for Arduino UNO R3 to adjust the servo degrees.

The code is placed in this path:



#### CKK0016-main\Tutorial\Arduino\Servo\_90\_ADJ

#### Code:



#### The corresponding connection relationship is shown in the table below:

UNO R3 PIN	MG996R Servo PIN
9	Signal
5v	VCC
GND	GND



## 3.Assembly

#### 3.1 Assembly Steps

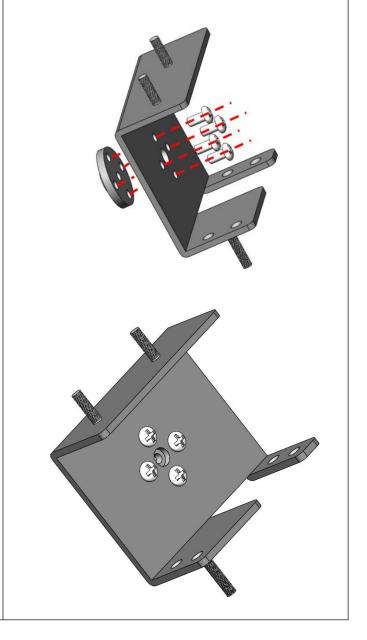
Note: Before assembling, we need to use a screwdriver to peel off the yellow protective paper of the black acrylic board;

Step 1		Assembly of servo panel and U-shaped metal holder		Tool	M3 Phillips screwdriver  wrench	
	Name	Quantity	Unit		F	icture
	Servo panel	1	PCS			
Parts List	Parts List U-shaped metal holder  1		PCS			
	M3*6 round head screw	4	PCS			
Detailed steps	Desc	1		Installa	tion Diagram	



1.Using M3 \* 6 round head screws to assemble the servo panel onto a U-shaped metal holder;

A Attention: 1. Assembly direction of Servo panel; 2. After assembling the screws diagonally, tighten them with a screwdriver;



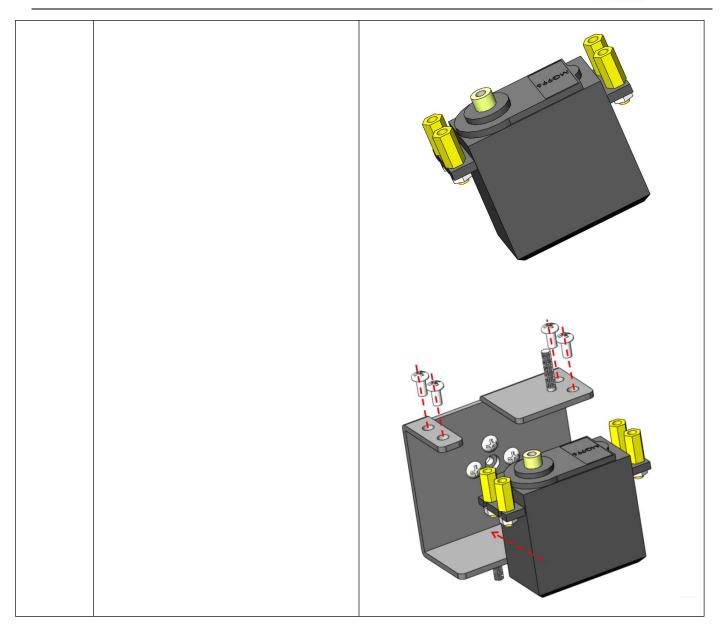


	Step 2		Assemble	e the Servo	Tool	M3 Phillips screwdriver  wrench	
Part list	Name step1 structure	Quantity 1	Unit	Picture			
	MG996R Servo	1	PCS				



	M3 screw nut	4	PCS	
	M3*10+6 single-pass copper column	4	PCS	
	M3*6 round head screw	4	PCS	
Detailed steps	Desc	ription		Installation Diagram
A	<ol> <li>1. 1. Use M3 nuts the single-pass copperson servo;</li> <li>Note that the M3 number for now;</li> <li>2. Use M3 * 6 round semi-finished production previous step to the tighten the nuts;</li> </ol>	er column ut cannot be d head screw act complet	onto the etightened as to fix the ed in the	







	Step 3		stru compon	y of acrylic ctural ents A and B	Tool	Wrench
	Name	Quantity	Unit		F	Picture
Part list	step 2 structure	1	PCS			
	Bearing	1	PCS			



	Acrylic structural component A	1	PCS	2000
	Acrylic structural component B	1	PCS	
	Servo panel	1	PCS	
	M3 self-locking nut	1	PCS	
	M3*8round head screw	4	PCS	
	M3*6round head screw	1	PCS	
Detailed steps	Desc	ription		Installation Diagram



Step 4			ly of acrylic I component C	Tool	M3 Phillips screwdriver	
	Name	Quant ity	Unit		Pi	cture
	Step 3 structure	1	PCS			
	acrylic structural component C	4	PCS			
Part list	M3*15*6 single-pass copper column	8	PCS			
	M3*8 round head screw	4	PCS			
	M3*16 double-pass copper column	4	PCS			
Detailed steps	Descr	iption			Installati	on Diagram



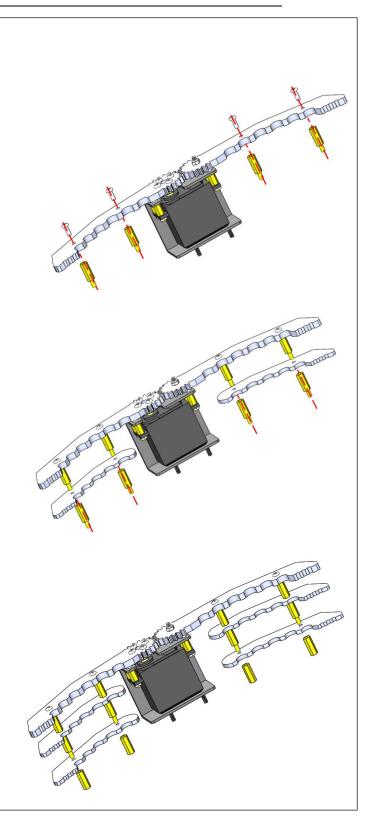
1.Use M3 \* 8 round head screws to fix M3 \* 15+6 single-pass copper columns in sequence in the assembly holes of acrylic structural component A and acrylic structural component B;

2. Fix the two structural components C with M3 \* 15+6 single-pass copper columns;

3. Fix two acrylic structural components C with M3 \* 16 double-pass copper columns;

Α

Attention: Assembly direction of acrylic structural component C;





				and a second		
Step 5				of acrylic components	Tool	M3 Phillips screwdriver  wrench
Part list	Name	Quant ity	Unit	Picture		
	step 4 structure	1	PCS			
	acrylic structural component B	1	PCS			
	acrylic structural component D	1	PCS		£	

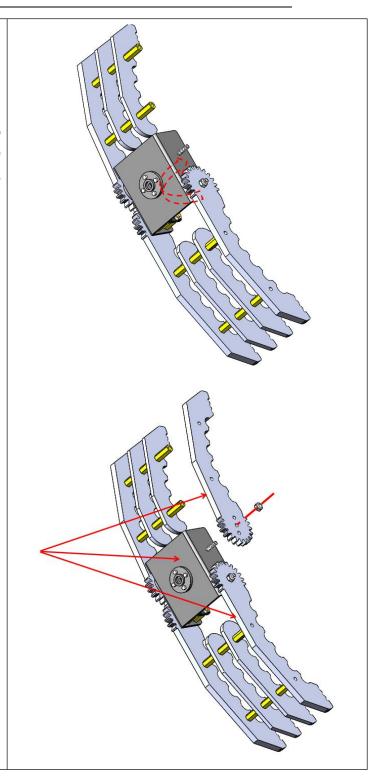


· ·				_	
	M3 self-locking nut	2			
	M3*8 round head screw	4	PCS		
Detailed steps	Description			Installation Diagram	
A	1. Use M3 self-locking nuts to fix acrylic structural component B onto the screw of the U-shaped metal holder;				
	Attention: The cannot be fixed acrylic structural be manually and s	firmly, compon	and the ent B can		
	2. Rotate a component B so parallel to the back metal holder (the Servo panel Simultaneously, as structural componenthe back of the holder and onto the holder screw; (The degree deviation)	ck of the e side v is as ssemble nent D e U-shap he U-shap	U-shaped where the ssembled); the acrylic parallel to bed metal ped metal		
	3. Use M3 self-loc acrylic structural of the screw of the holder;	compone	ent D onto		
	Attention: Manu	ially ro	tate the		

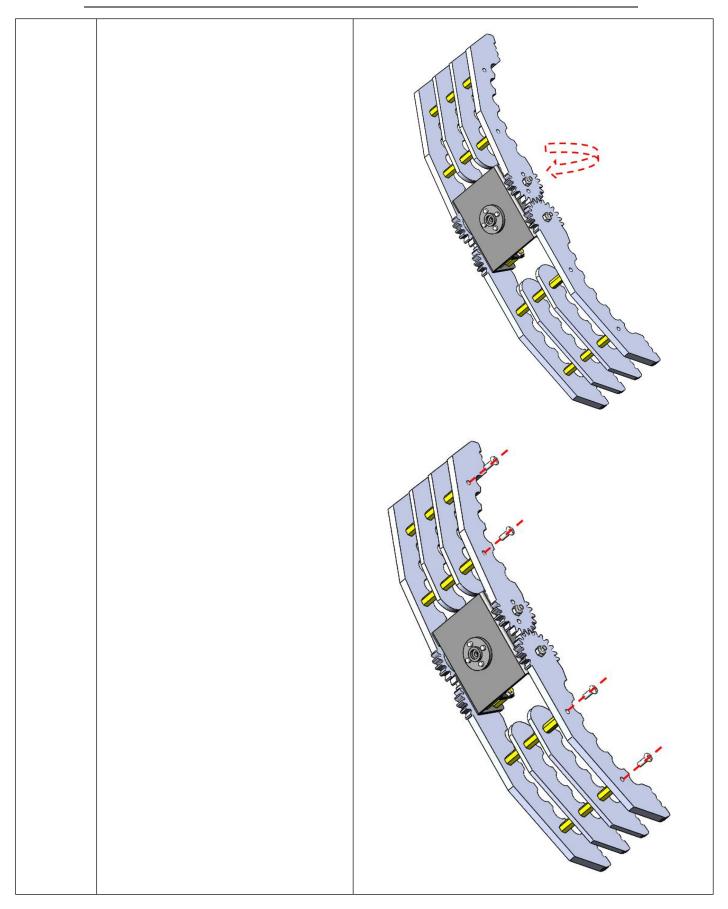


acrylic structural component D, and the gears of acrylic structural component D and acrylic structural component B will bite smoothly;

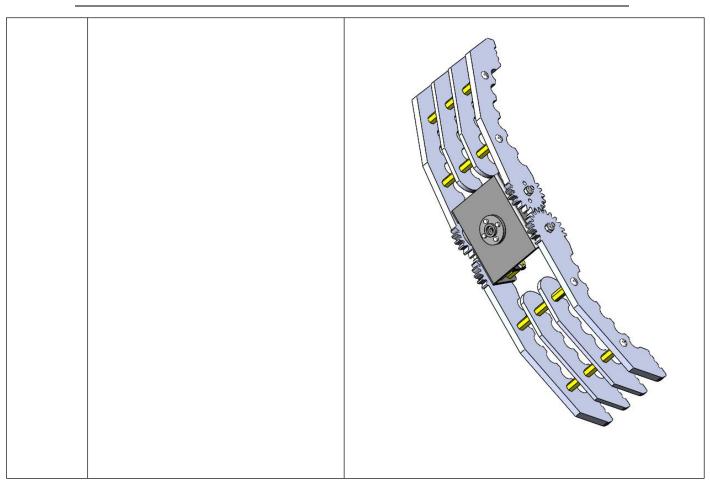
4. Use M3 \* 8 round head screws to fix acrylic structural component D and acrylic structural component B to M3 \* 16 copper columns respectively;



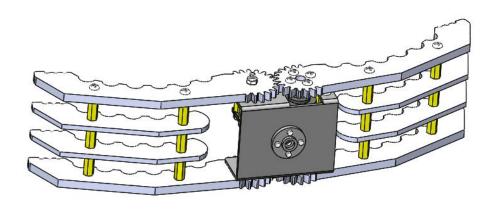




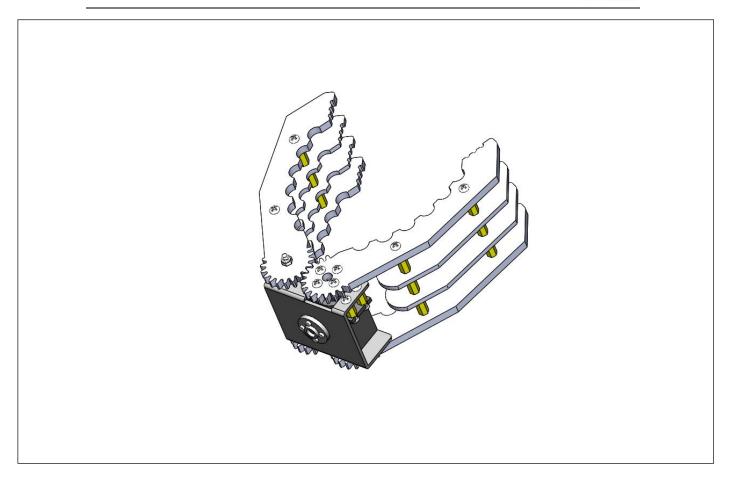




Congratulations, a fun mechanical claw assembly has been completed and you can start your exploration journey now.







#### 3. Make your suggestion and get support

THANK YOU for reading this Assemble document!

If you find errors, omissions or you have suggestions and/or questions about this doucment, please feel free to contact us: cokoino@outlook.com

We will make every effort to make changes and correct errors as soon as feasibly possible and publish a revised version.

If you want to learn more about Arduino, Raspberry Pi, Smart Cars, Robotics and other interesting products in science and technology, please continue to visit our Amazon Store by search for "LK COKOINO" on Amazon. We will continue to launch fun, cost-effective, innovative and exciting products.

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