How to Assemble the 4WD Car Chassis

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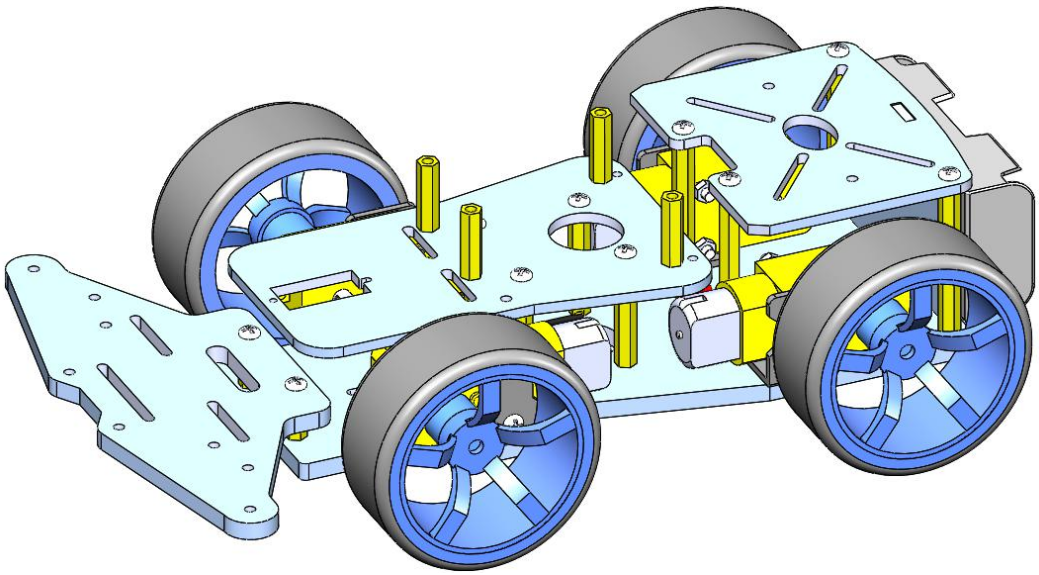

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1. Parts List

1.1 Connecting/Fixing Parts

Picture	Name	Description	Qty
	screw	M3*10MM round screw	28
	screw	M3*25 countersunk head screw	9
	screw	M3*8 countersunk head screw	3
	screw	M3*8 round screw	4
	nut	M3 nut	10
	nut	M3 self-locking nuts	9

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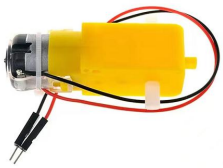
	copper pillar	M3*20 double pass copper pillar	4
	copper pillar	M3*10 double pass copper pillar	2
	copper pillar	M3*30MM double pass copper pillar	4
	copper pillar	M3*45 double pass copper pillar	4
	battery case	18650 battery case	1
	motor	TT motor-dual axis reduction ratio 1:48	4
	bracket	TT motor metal bracket	4

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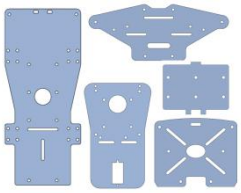
	wheel	TT motor wheel	4
	acrylic structural parts	4WD car base acrylic structural parts	1

1.2 Tool

Picture	Name	Description	Qty
	wrench	M3 Simple Wrench	1
	screwdriver	M3 Phillips screwdriver	1

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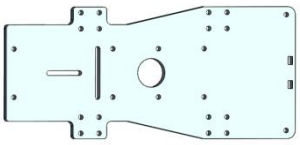
2. Assemble and Install

2.1 Assembly steps

Note: 1. Before assembly, we need to use a screwdriver to peel off the protective paper of the acrylic structure;

<table>
<tr><td>Step</td><td>1</td><td colspan="2">Assemble the bracket and the structure A</td><td>Tool</td><td>M3 Phillips screwdriver
 </td></tr>
<tr><td rowspan="6">List</td><td>Part Name</td><td>Quantity</td><td>Unit</td><td colspan="2">Picture</td></tr>
<tr><td>structure A</td><td>1</td><td>PCS</td><td colspan="2">  </td></tr>
<tr><td>bracket</td><td>4</td><td>PCS</td><td colspan="2"> </td></tr>
<tr><td>M3 self-locking nut</td><td>8</td><td>PCS</td><td colspan="2"> </td></tr>
<tr><td>M3*10 round head screw</td><td>8</td><td>PCS</td><td colspan="2"> </td></tr>
<tr><td></td><td colspan="2">Description</td><td colspan="3">Demo</td></tr>
</table>

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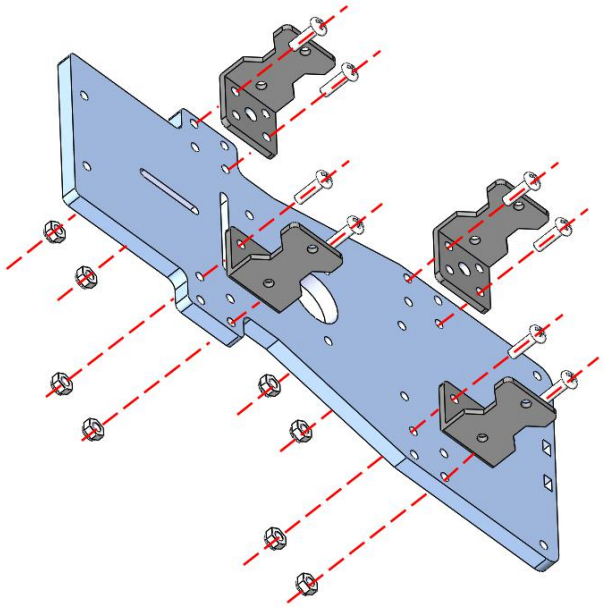
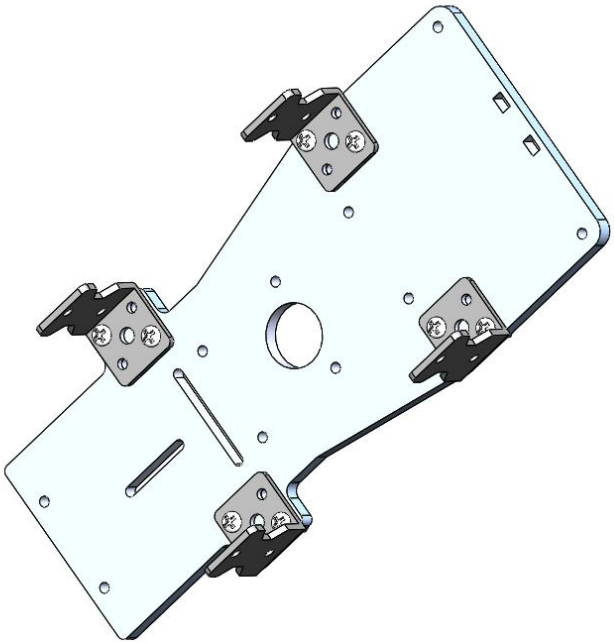
A	1. Use M3*10 round head screws and M3 self-locking nuts to fix the bracket on the structural member A; Pay attention to the installation direction of the bracket;	 		
Step	2	Install the TT motor	Tool	M3 Phillips screwdriver
	Part Name	Quantity	Unit	Picture

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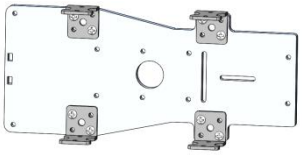
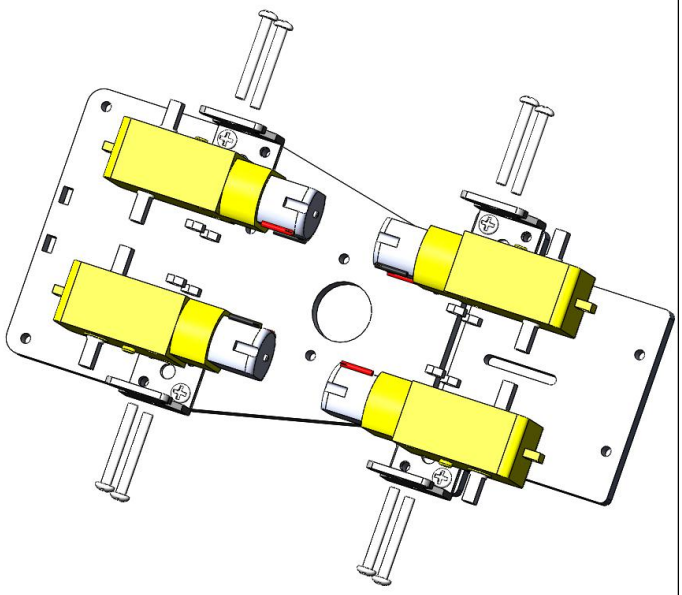
List	Step 1 part	1	PCS	
	TT motor	4	PCS	
	M3 nut	8	PCS	
	M3*25MM screw	8	PCS	
	Description			Demo
A	1. Use M3*25 screws and M3 nuts to install the TT motor on the bracket of step 1 part (pay attention to the installation direction of the TT motor);			

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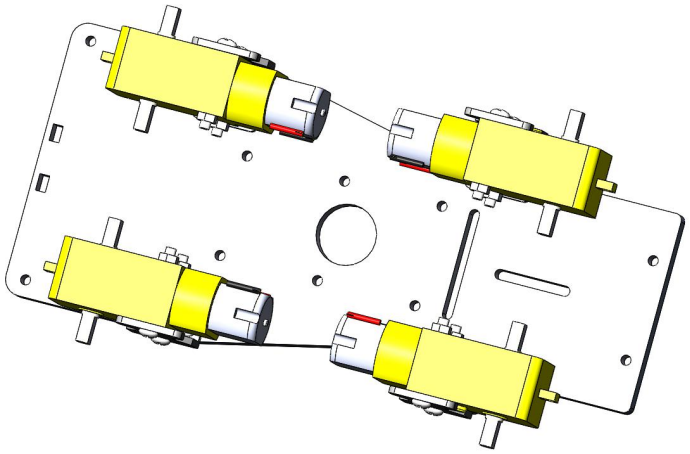
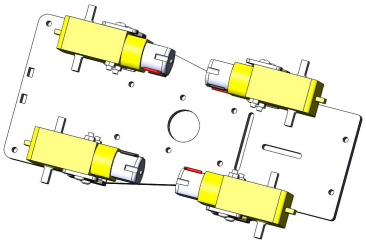
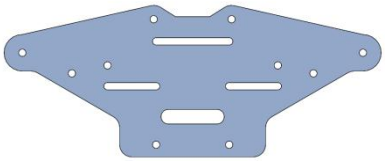
					
Step	3		Install Step 2 part with structure A	Tool	M3 Phillips screwdriver
List	Part Name	Quantity	Unit	Picture	
	Step 2 part	1	PCS		
	M3*10 double pass copper column	2	PCS		
	structure B	1	PCS		

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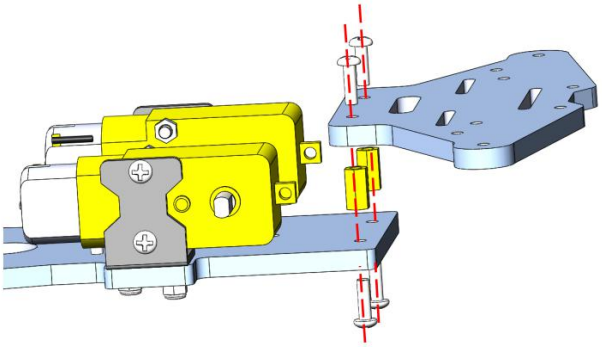
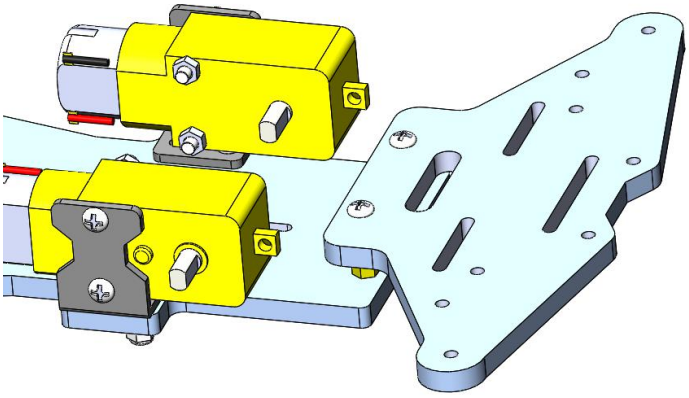
	M3*8 round screw	4	PCS	
	Description			Demo
A	1. Use M3*8MM round head screws to fix the M3*10 double-pass copper column to structure A (pay attention to the installation direction of the copper column); 2. Use M3*8mm round head screws to fix structure B on the copper column;			 

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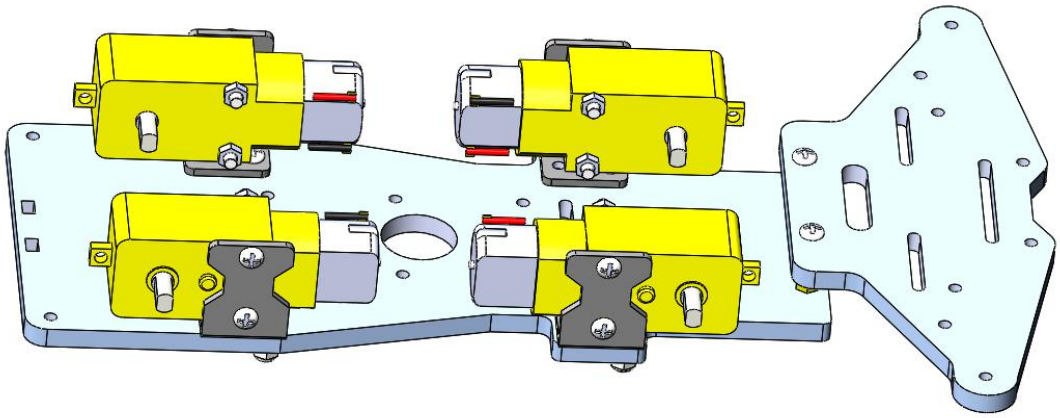
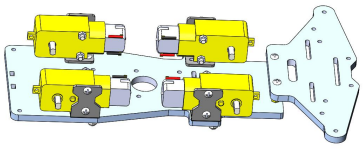
	

Step	4	Install copper pillars		Tool	M3 Phillips screwdriver
List	Part Name	Quantity	Unit	Picture	
	Step 3 part	1	PCS		
	M3*45 copper pillar	4	PCS		
	M3*30 copper pillar	4	PCS		
	M3*10 round head screw	8	PCS		
	Description			Demo	
A	1. Use M3*10 round head screws to fix the M3*45 copper column and the M3*30 copper column on the structural member A in turn; Pay attention to the installation direction of the copper column;				

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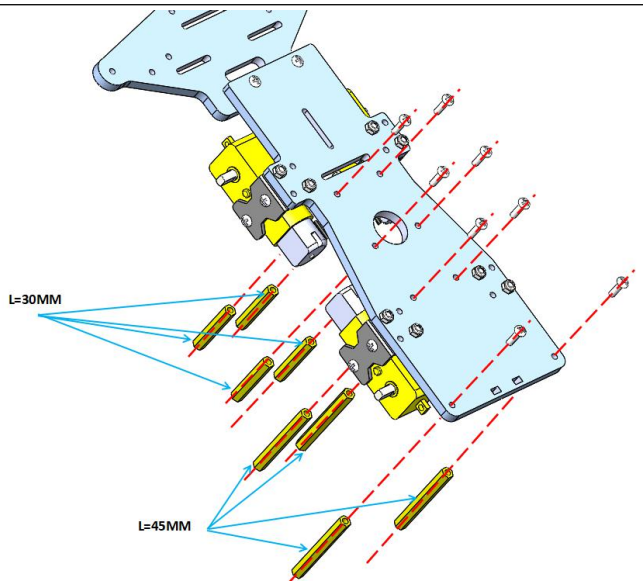
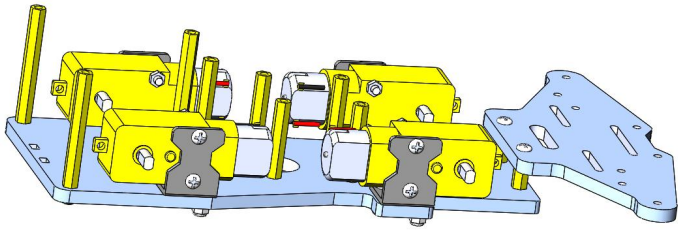
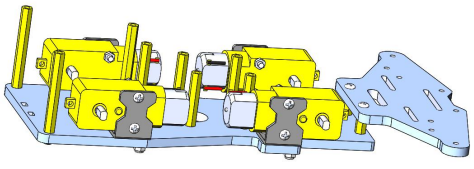
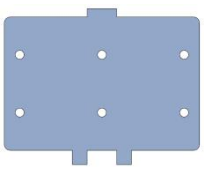
<tr><td></td><td></td><td colspan="4"> 

 </td></tr>
<tr><td>Step</td><td>5</td><td colspan="2">Install the battery case</td><td>Tool</td><td>M3 Phillips screwdriver
 </td></tr>
<tr><td rowspan="3">List</td><td>Part Name</td><td>Quantity</td><td>Unit</td><td colspan="2">Picture</td></tr>
<tr><td>Step 4 part</td><td>1</td><td>PCS</td><td colspan="2">  </td></tr>
<tr><td>Structural C</td><td>1</td><td>PCS</td><td colspan="2">  </td></tr>
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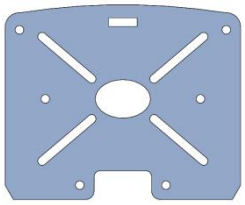
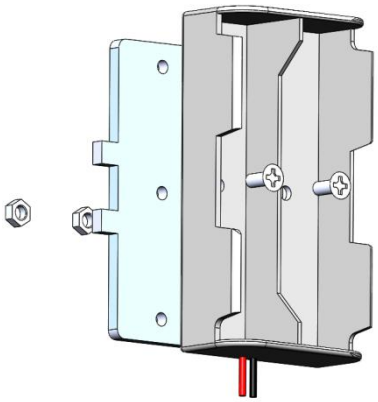
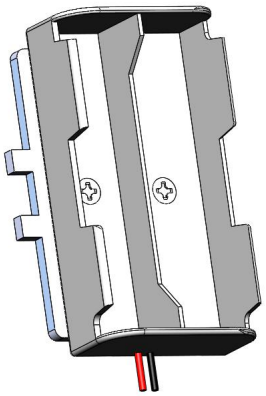
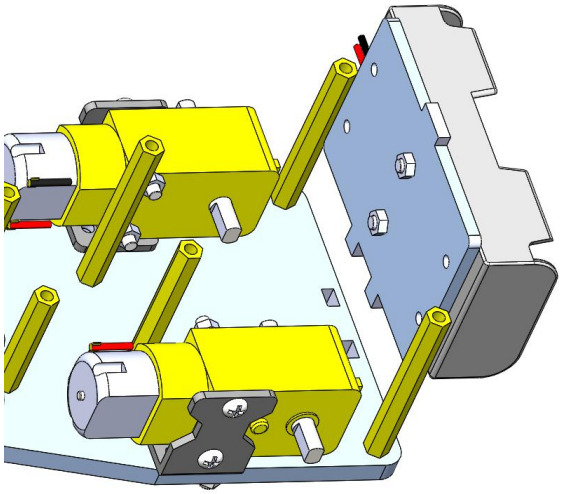
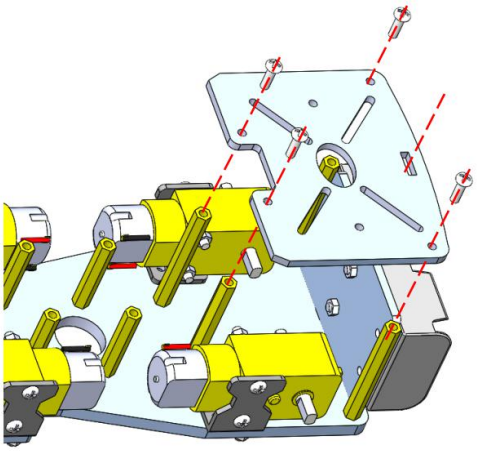
	Structural D	1	PCS	
	M3 nut	2	PCS	
	M3*8MM screw	2	PCS	
	M3*10 round screw	4	PCS	
	Battery case	1	PCS	
	Description			Demo
A	1. Use M3*8 countersunk head screws to fix the 18650 battery case on the structure C (pay attention to the installation direction of the battery case); 2. Install the part completed in the			

	previous step on the step 4 part; 3. Use M3*10 round head screws to fix the structural part D on the M3*45 copper column; (at the same time, pay attention to the combination of structural part C and structural part D)	  

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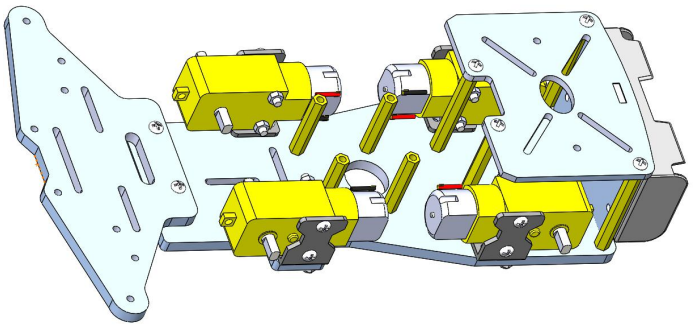
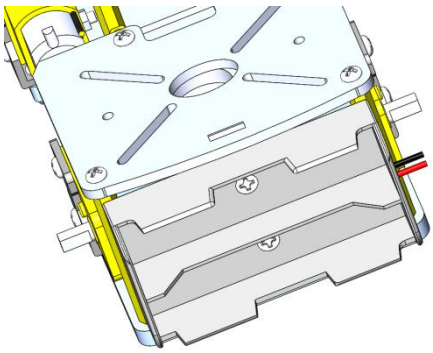
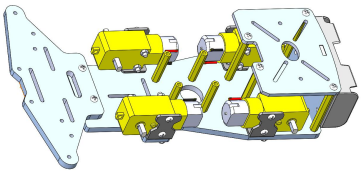
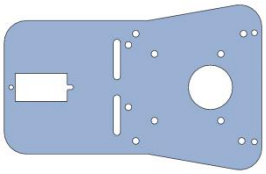
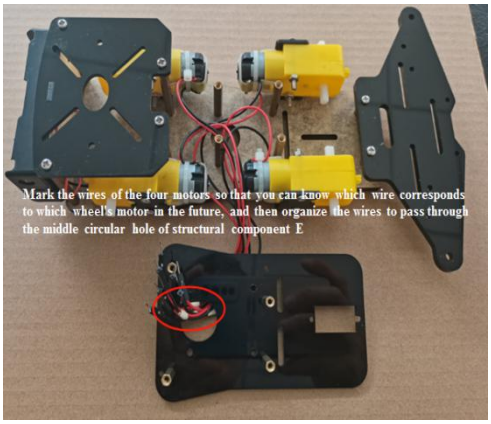
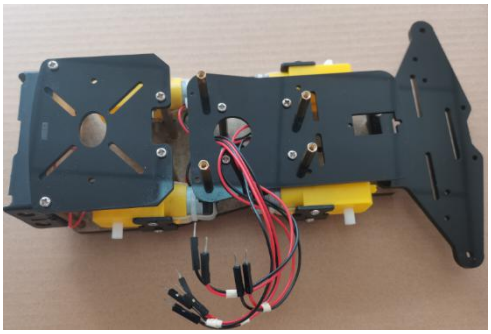
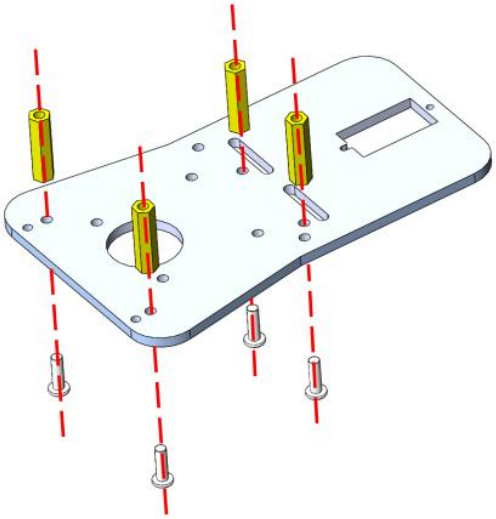
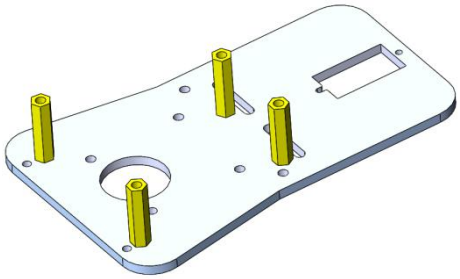
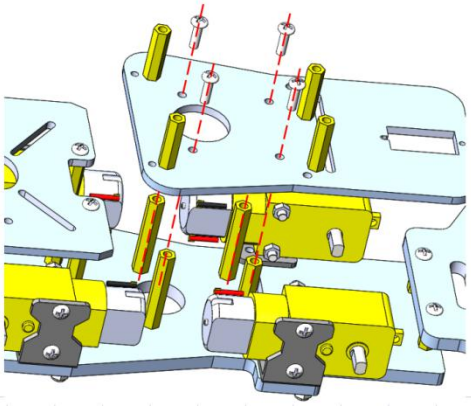
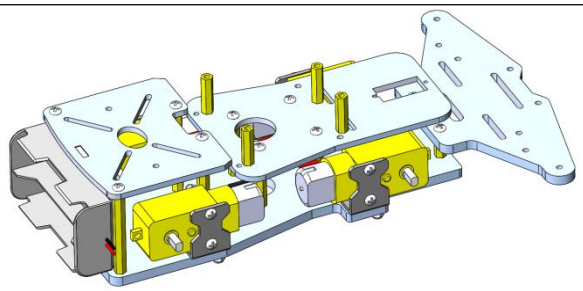
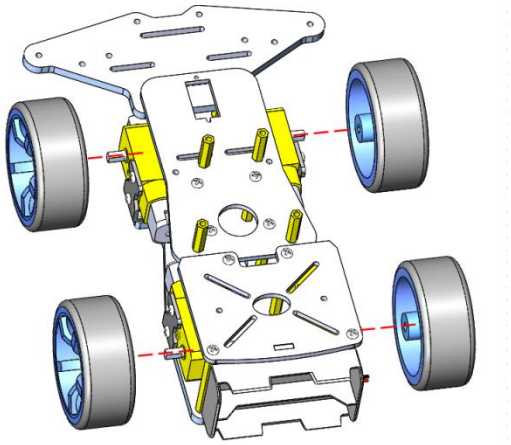
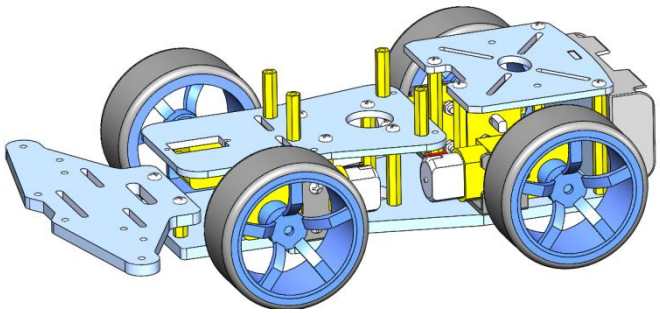
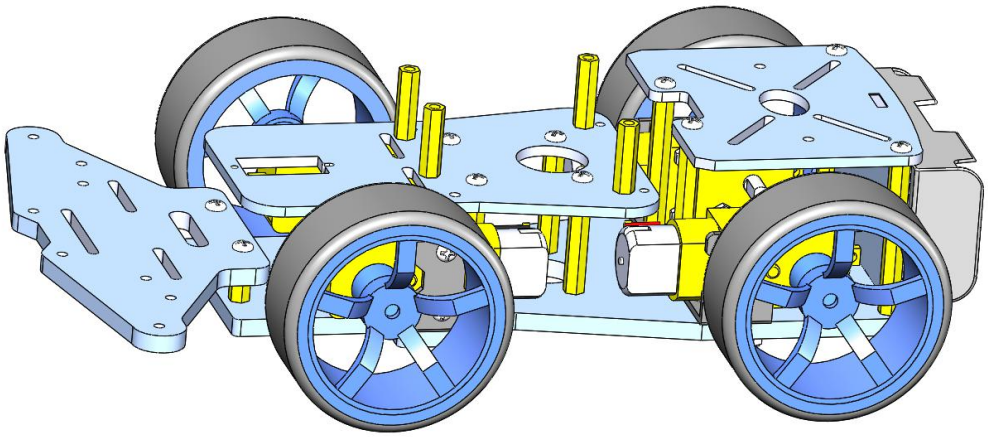
<tr><td></td><td colspan="3"></td><td colspan="2"> 
  </td></tr>
<tr><td>Step</td><td>6</td><td colspan="2">Assemble structural E and wheels</td><td>Tool</td><td>M3 Phillips screwdriver
 </td></tr>
<tr><td rowspan="4">List</td><td>Part Name</td><td>Quantity</td><td>Unit</td><td colspan="2">Picture</td></tr>
<tr><td>Step 5 part</td><td>1</td><td>PCS</td><td colspan="2">  </td></tr>
<tr><td>M3*20 double pass copper column</td><td>4</td><td>PCS</td><td colspan="2"> </td></tr>
<tr><td>Structure E</td><td>1</td><td>PCS</td><td colspan="2">  </td></tr>
</table>

	M3*10 round head screw	8	PCS	
	Description			Demo
A	1. Use M3*10MM round head screws to fix the M3*20 double-pass copper column to the structure E (pay attention to the installation direction of the copper column); 2. Mark the wires of the four motors so that you can know which wire corresponds to which wheel's motor in the future, and then organize the wires to pass through the middle circular hole of structural component E  3. Use M3*10mm round head screws to fix the part completed in the previous step on the step 5 part; 			  

	4. Install the wheels;	  

Congratulations, a 4WD car chassis has been installed!



3. Make your suggestion and get support

THANK YOU for participating in this assemble document!

If you find errors, omissions or you have suggestions and/or questions about this document, 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.

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