

Step 1 Installing Trace Sensor			
Danta Liat	Acrylic Lower Board*1	Trace Sensor*1	
Parts List	M3*10MM Round Head Screws*2	M3 Nickel-Plated Nuts*2	
Splicing Diagram	With the hole of Trace Sensor		
Notes	<ol> <li>You need to tear off the plastic film</li> <li>Screwing steps: first put the nut or</li> <li>it;</li> <li>Tightening method: hold down the screwdriver, or hold down the screwdriver, or hold down the screwdriver;</li> <li>Here first plug in the Dupont wire, the tracing sensor, the black wire or connects to the L pin, the white wire wire connects to the R pin.</li> </ol>	the red wire connects to the V pin of onnects to the G pin, the blue wire	



Step 2 Installing the Copper Pillars on the Board				
Parts List	M3*40MM Dual-pass Copper Pillar*6	M3*10MM Round Head Screws*6		
Splicing Diagram				
Notes	Screw the copper pillar from the bot	tom of the board.		



Step 3 Installing Motor					
Parts	TT DC Geared Motors*4	Motor Brackets*4		M3*30MM Round Head Screws*8	
List	M3*10MM Round Hea	d Screws*8	M3 N	Nickel-Plated Nuts*8	
Splicing Diagram	1. Fix the metal bracket	on the motor	firet		
Notes	2. The direction of morfigure, and the end of the	tor installation ne motor belt li otor, try to kee	should be ine should be ep the moto	or level and tighten it to	



Step 4 Installing Controller Board and Car Shield				
Parts	ESP32 Max V1.0 Controller Board*1	ESP32-Car-Shield*1	M3*14MM Single-pass Copper Pillar*4	
List	M3 Nickel-Plated Nuts*4	M3*10MM Round Head Screws*3	Acrylic Upper Board*1	
Splicing Diagram	Upper plate		Just lock three nuts	
Notes	which needs to be tig 2.Then use screws to three places can be fi 3.Insert the car ex	htened; o fix the ESP32 board on xed here as shown;	ne upper board with a nut, a a single copper pillar, only e ESP32 controller board	



Step 5 Installing Blue LED Module				
Parts	Blue LED Module*2	M3*10MM Round Head Screws*4		
List	M3 Nicke	I-Plated Nuts*4		
Splicing Diagram				



Step 6 Installing P-Buzzer Module And IR Receiver Module			
Parts	P-Buzzer Module*1	IR Receiver Module*1	
List	M3*10MM Round Head Screws*4	M3 Nickel-Plated Nuts*4	
Splicing Diagram			



Step 7 Installing Servo Motor				
Parts List	Servo SG90 9G*1	M2*10MM Round Head Screws*2	M2 Nickel-Plated Nuts*2	
Splicing Diagram				
Notes	Pay attention to the direction	on of the steering wheel sha	aft.	



Step 8 Installing Ultrasonic Module and Its Bracket			
Parts	Ultrasonic Bracket*1	Ultrasonic Sensor*1	M2*10MM Round Head Screws*4
List	M2 Nickel-Plated Nuts*4	Servo Rocker Arm*1	M1.4*5MM Large Round Flat Head Tapping Screws*2
Splicing Diagram			
Notes	Servo rocker arm is fro	om the servo package .	

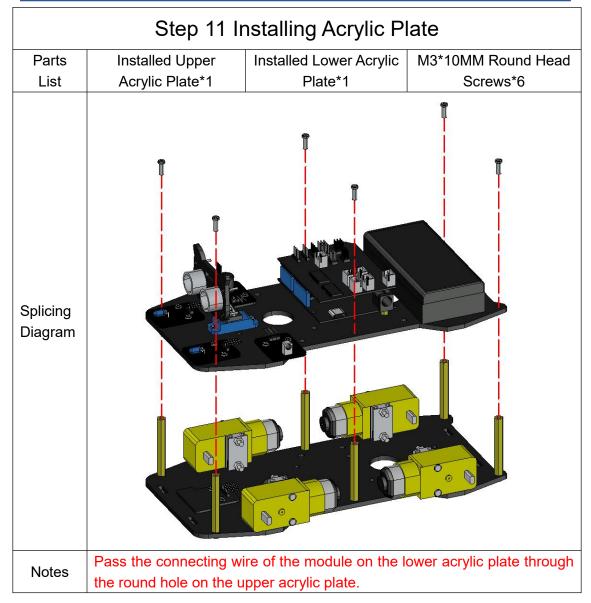


Step 9 Installing Ultrasonic Sensor		
Parts List	Small screw from servo package*1	
Splicing Diagram		
Notes	1.This screw comes from the servo package;     2.Here, install the ultrasonic sensor facing directly forward.	

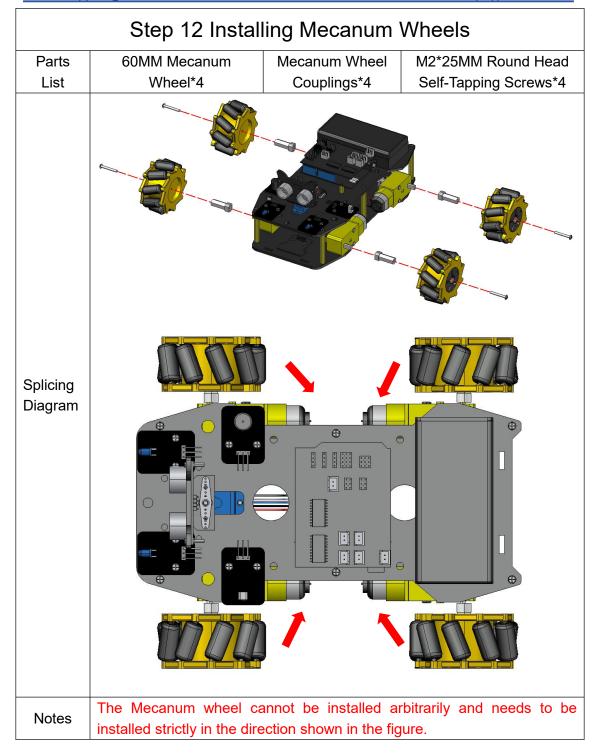


Step 10 Installing Battery Holder				
Parts List	18650 Battery Holder*1	M3*8MM Flat Head Screws*4	M3MM Nickel-Plated Nuts*4	
Splicing Diagram				
Notes	The screws in the batte nut fits against the botto	ry case need to be tightened om of the battery case.	I so that the flat head	



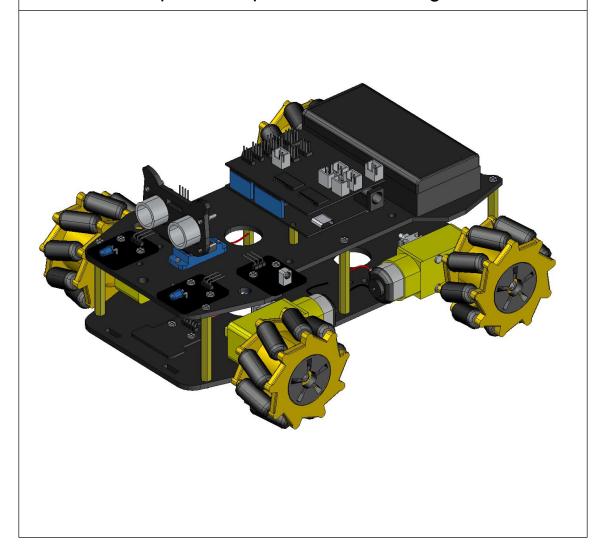




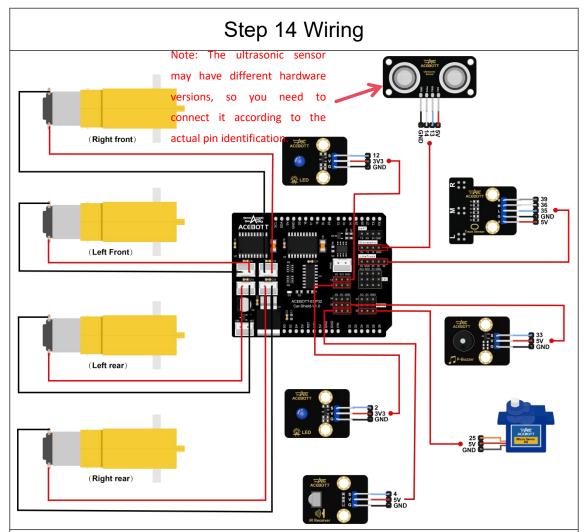




## Step 13 Complete Structure Diagram







- 1. The color of the dupont line is blue, red and black. The blue thread is connected to the S pin, the red thread is connected to the V pin, and the black thread is connected to the G pin;
- 2. The color of the servo wire is different from the ordinary dupont wire, the red line is connected to the V pin, the brown line is connected to the G pin, and the yellow line is connected to the S pin;
- 3. Ultrasonic wire, red line is connected with V pin, white wire is connected with ECHO pin, blue wire is connected with TRIG pin, black wire is connected with GND pin;
- 4. Track the sensor wire, the red line is connected with 5V pin, the black line is connected with GND pin, the blue line is connected with L pin, the white line is connected with M pin, and the gray line is connected with R pin.
- 5. Please make sure to strictly follow the wiring instructions when connecting the



module to the ESP32 controller board. Incorrect wiring may cause a short circuit and damage the ESP32 controller board.