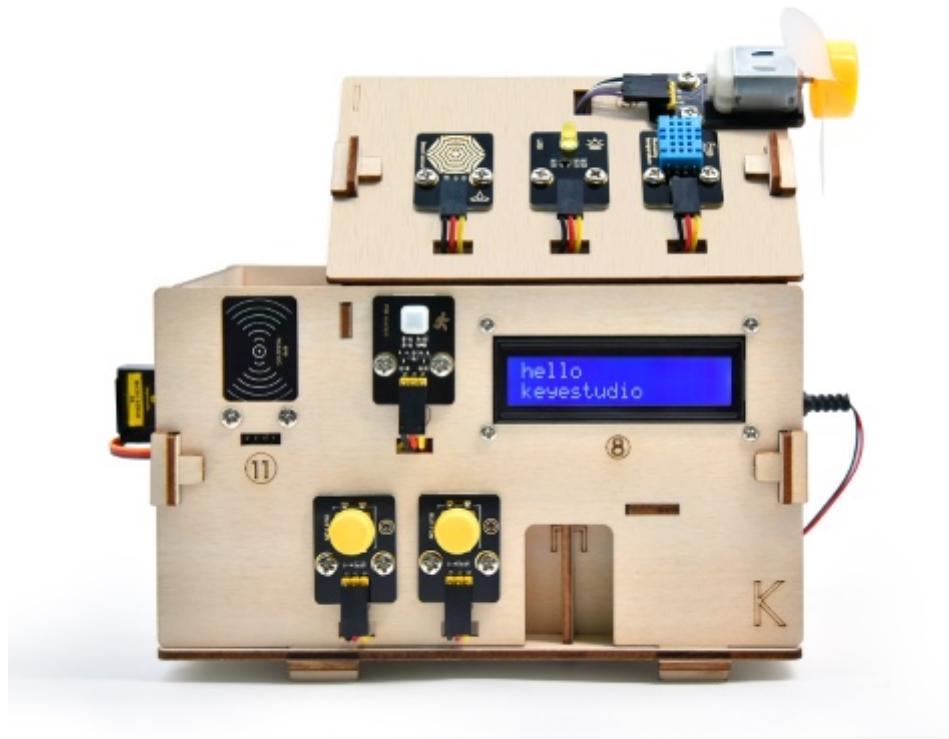


Keyestudio IoT Smart Home Kit for ESP32



Description

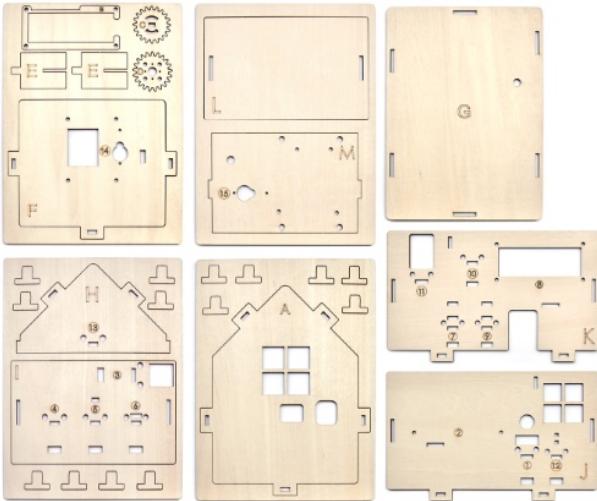
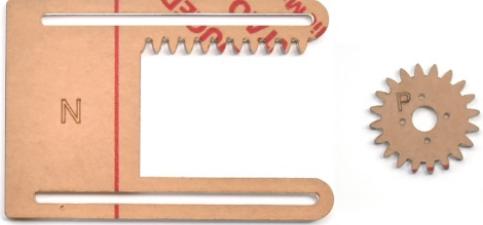
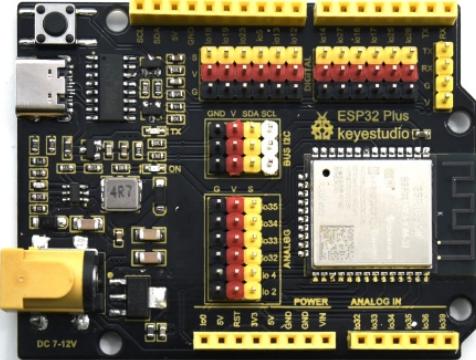
As the rapid development of the Internet grows, various intelligent devices are gradually integrated into our daily life. For example, we can use RFID to open the door. In addition, the kitchen is equipped with a gas detection alarm, which alerts people to the danger when dangerous gas and large smoke are detected. When it detects rain, it can automatically collect clothes and close windows. All kinds of electrical equipment can be controlled by mobile phone, control lights, fans, air conditioning and so on.

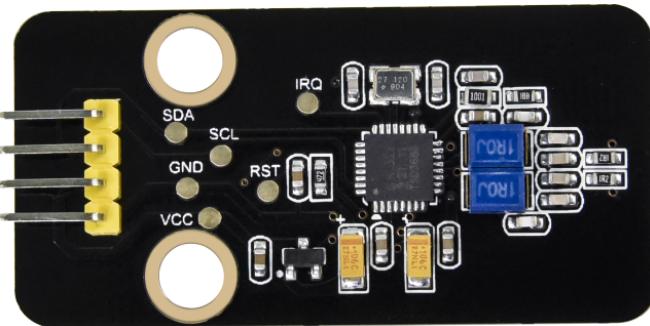
In this connection, we seek to launch this smart home product with ESP32 control, which has a host of sensors and modules as well as networking function, making the relevant knowledge of the Internet more accessible to you.

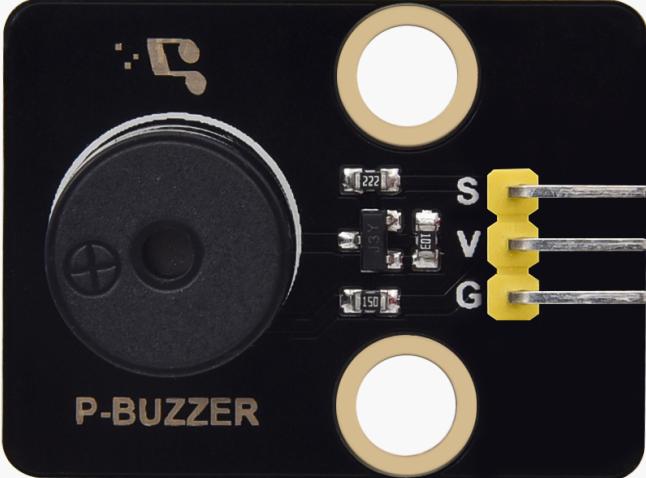
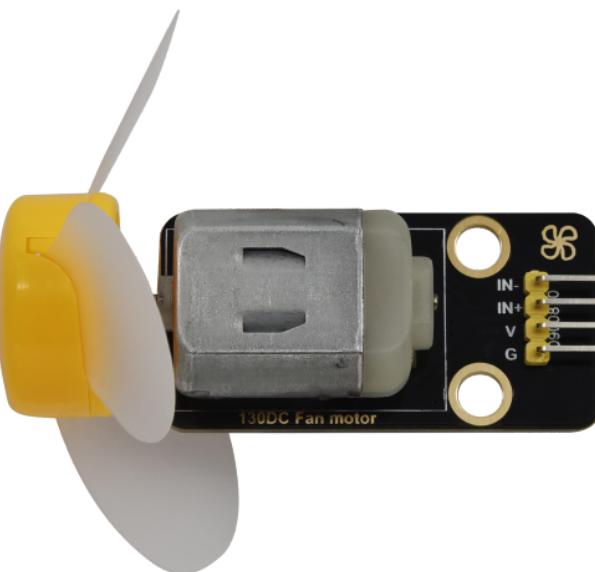
Features

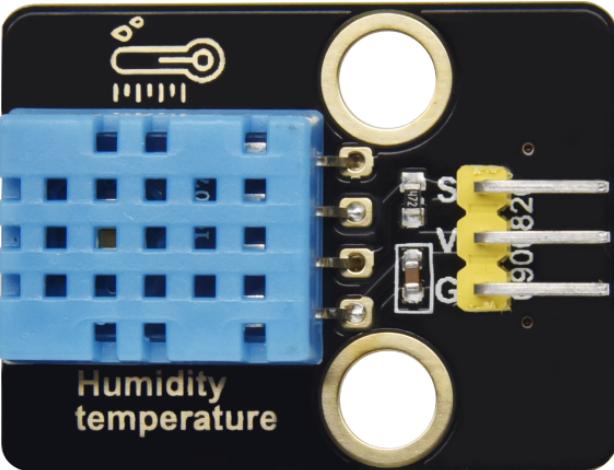
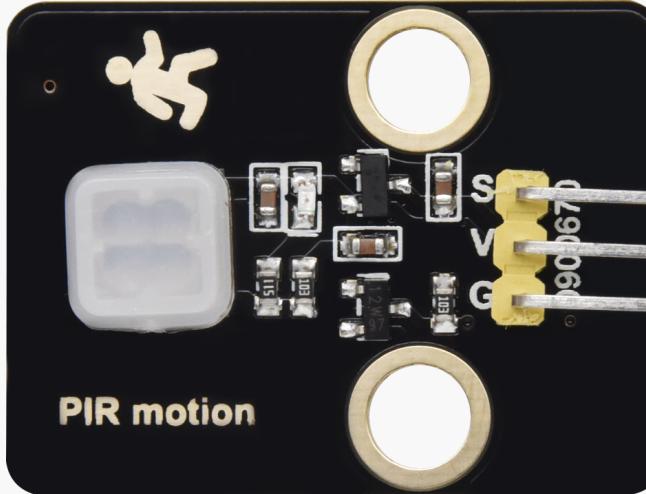
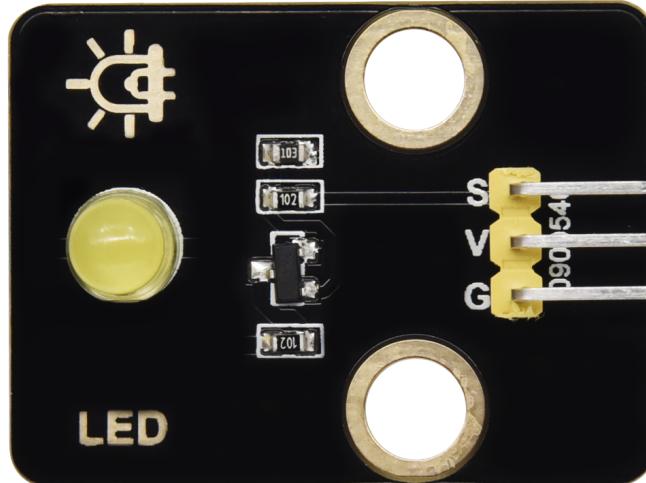
1. Elegant appearance
2. A host of sensor modules
3. Mobile phone APP network control
4. Morse password door
5. It can automatically close windows
6. RFID function

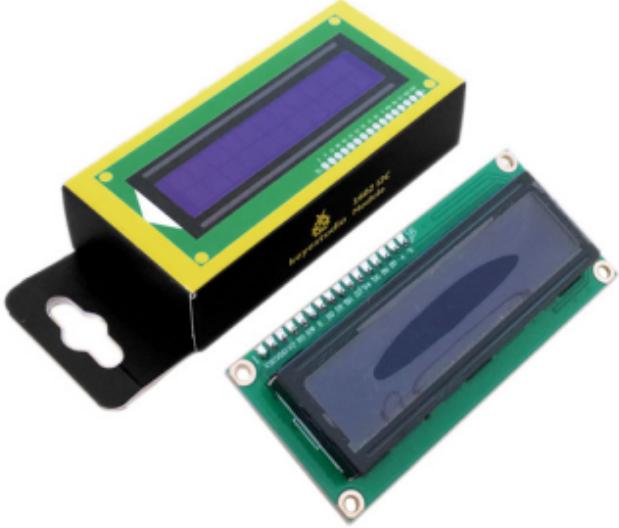
Kit list

#	Picture	Name	QTY
1		Wooden Board	1
2		Acrylic Board	1
3		ESP32 PLUS Development Board	1

#	Picture	Name	QTY
4	 A black PCB module featuring four white SMD RGB LEDs arranged in a 2x2 grid. A yellow header with pins labeled S, V, and G is attached to the right side. A circular hole is visible at the top center.	6812 RGB Module	1
5	 A black PCB module with a large metal mesh gas sensor element on the left. A blue integrated circuit (likely a 3302) is mounted above it. A yellow header with pins labeled A, D, V, and G is attached to the right. A circular hole is visible at the top center.	Analog Gas Sensor	1
6	 A black PCB module with a large yellow push-button in the center. A yellow header with pins labeled S, V, and G is attached to the right. A circular hole is visible at the top center.	Button Module	2
7	 A black PCB module with various components, including a blue integrated circuit and several surface-mount resistors. Pin headers labeled SDA, SCL, GND, RST, and VCC are visible on the left. A circular hole is visible at the top center.	RFID Module	1

#	Picture	Name	QTY
8	 A black rectangular module with a large circular hole at the top. It features a yellow terminal block with three pins labeled S (Signal), V (Power), and G (Ground). A black speaker is attached to the top left. The text "P-BUZZER" is printed at the bottom.	Passive Buzzer Module	1
9	 A black rectangular motor driver module with a yellow terminal block. It has four pins labeled IN-, IN+, V, and G. A silver DC motor is attached to the top, with its propeller visible. The text "130DC Fan motor" is printed at the bottom.	130 Motor	1
10	 A black rectangular sensor module with a yellow terminal block. It has three pins labeled S, V, and G. A gold-colored steam sensor element is attached to the top left. The text "Steam sensor" is printed at the bottom.	Steam Sensor	1

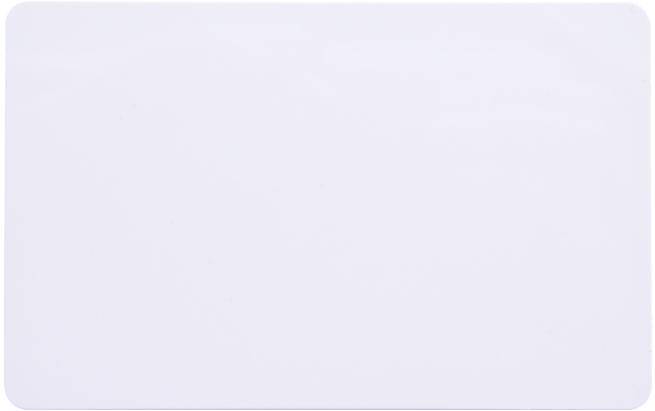
#	Picture	Name	QTY
11	 The XHT11 module is a black PCB with a blue DHT11 sensor component. It features three gold-colored circular mounting holes. A yellow header with pins labeled S, V, and G is attached to the right side. The text "Humidity temperature" is printed at the bottom.	XHT11 Temperature and Humidity Sensor	1
12	 The PIR motion sensor module is a black PCB with a white PIR sensor component. It has two gold-colored circular mounting holes. A yellow header with pins labeled S, V, and G is attached to the right side. The text "PIR motion" is printed at the bottom.	PIR Motion Sensor	1
13	 The LED module is a black PCB with a yellow LED component. It has two gold-colored circular mounting holes. A yellow header with pins labeled S, V, and G is attached to the right side. The text "LED" is printed at the bottom.	Yellow LED Module	1

#	Picture	Name	QTY
14		Servo	2
15		I2C1602 LCD Module	1
16		3P F-F 150 mm Dupont Wire	5
17		3P F-F 200 mm Dupont Wire	4
18		F-F 200 mm /40P/2.54 Wires	0.1 (4 strands)
19		4P F-F 200 mm Splicing Dupont Wire	2

#	Picture	Name	QTY
20		M1.4*6MM Round Head Screws	10
21		M3 Nickle- plated Nut(self- locking)	5
22		M4*8MM Round Head Screws	24
23		M3*6MM Round Head Screws	9
24		M3*10MM Round Head Screws	5
25		M2*12MM Round Head Screws	5

#	Picture	Name	QTY
26		M4 Nickel-plated Nut	24
27		M3 Nickel-plated Nut	7
28		M2 Nickel-plated Nut	6
29		M3*8MM Flat Head Screws	3
30		Cross Wrench	1
31		3.0*40MM Screwdriver	1
32		2.0*40MM Screwdriver	1

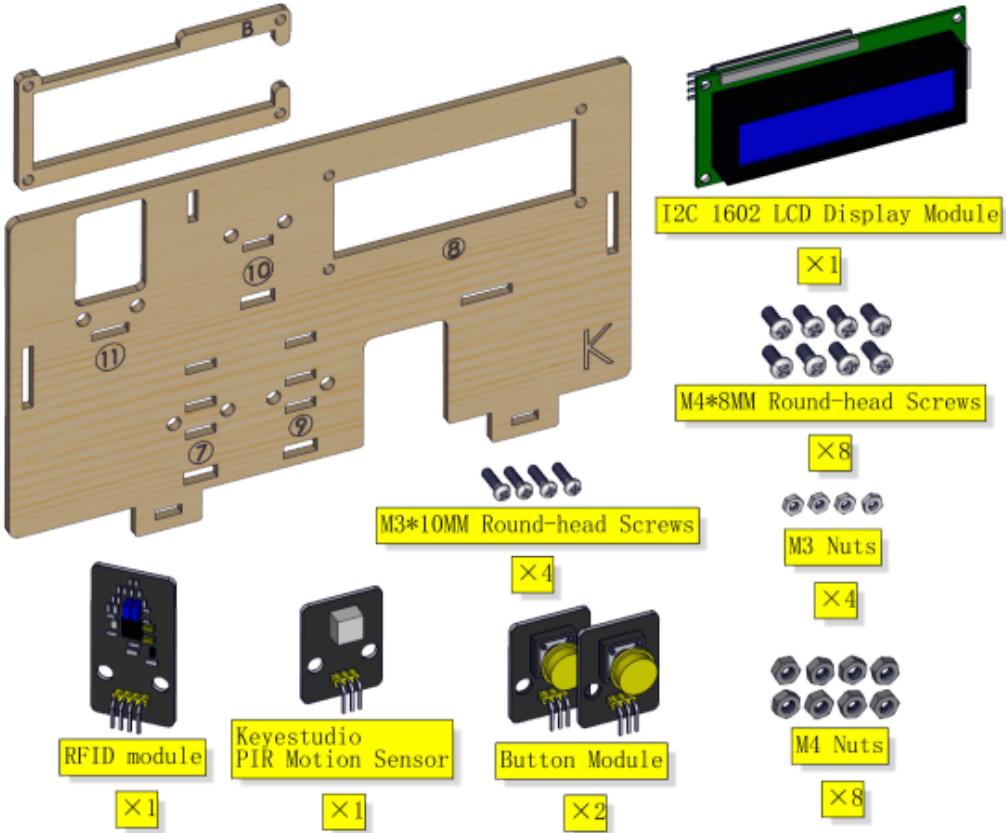
#	Picture	Name	QTY
33		M3*10MM Dual-pass Copper Pillar	4
34		USB Cable	1
35		6-Slot AA Battery Holder	1
36		M3*12MM Round Head Screws	4

#	Picture	Name	QTY
37		White Card	1
38		ABS RFID Key	1

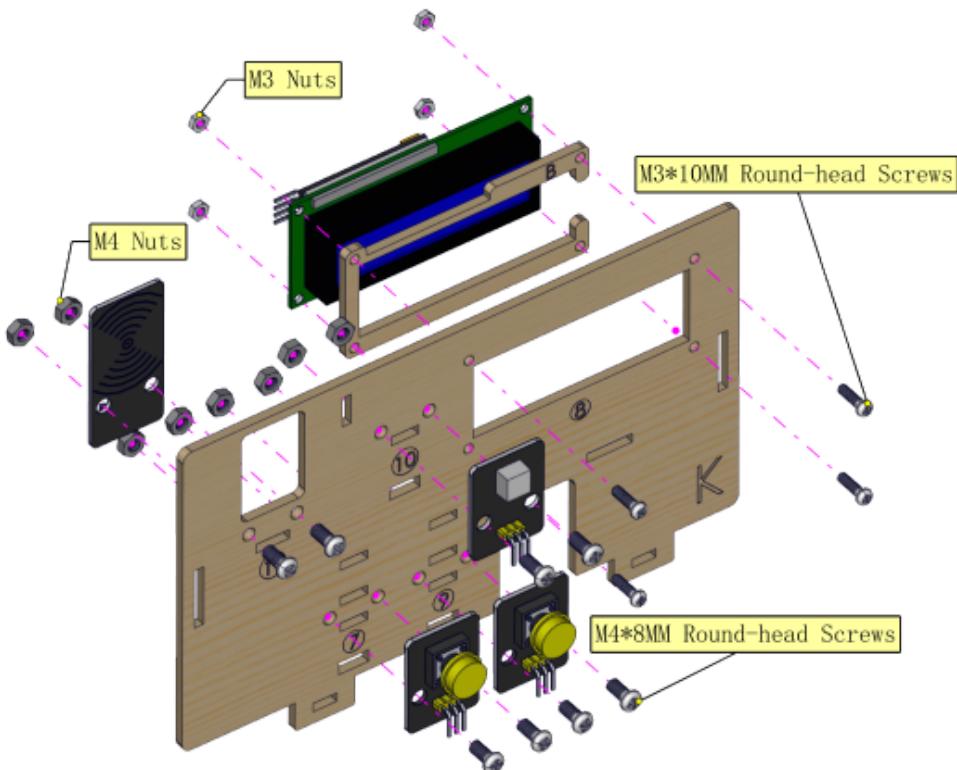
How to install the smart home

Step 1

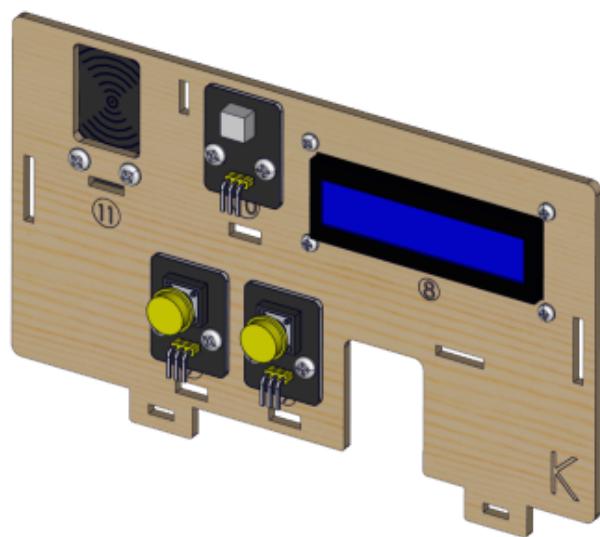
Components Required



Installation Diagram

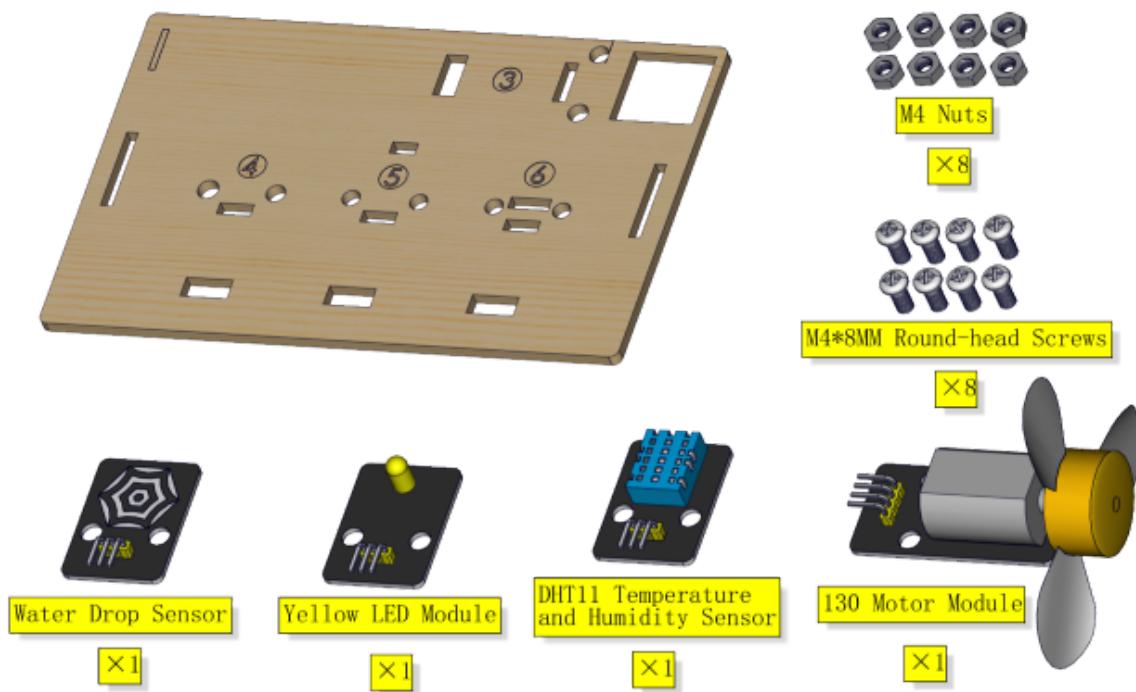


Prototype

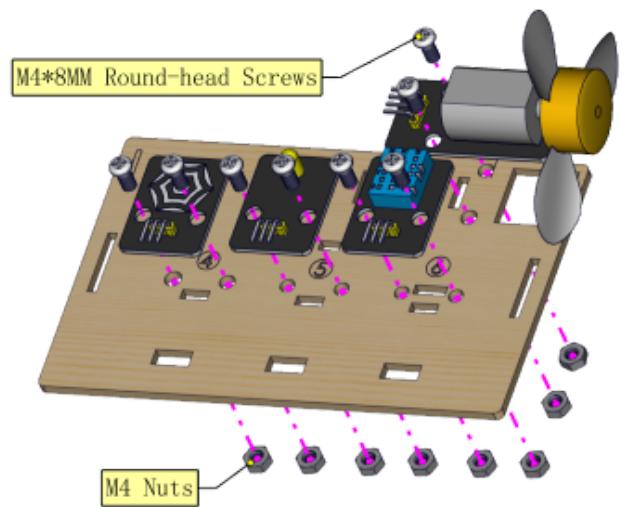


Step 2

Components Required



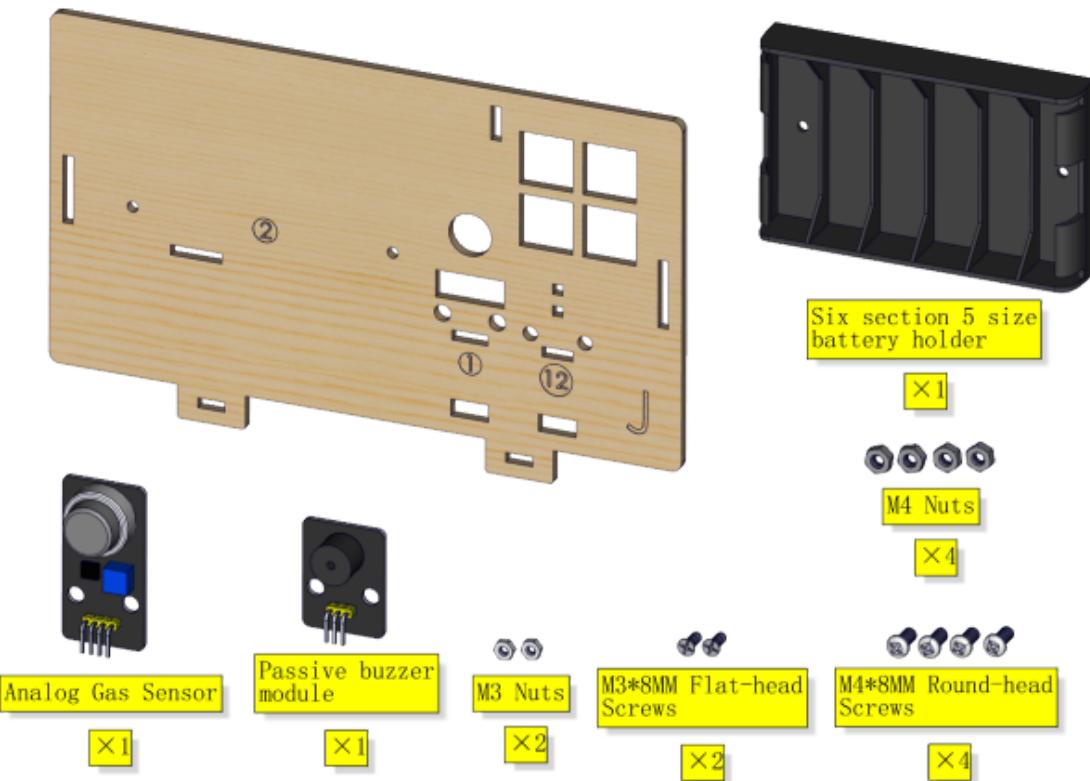
Installation Diagram



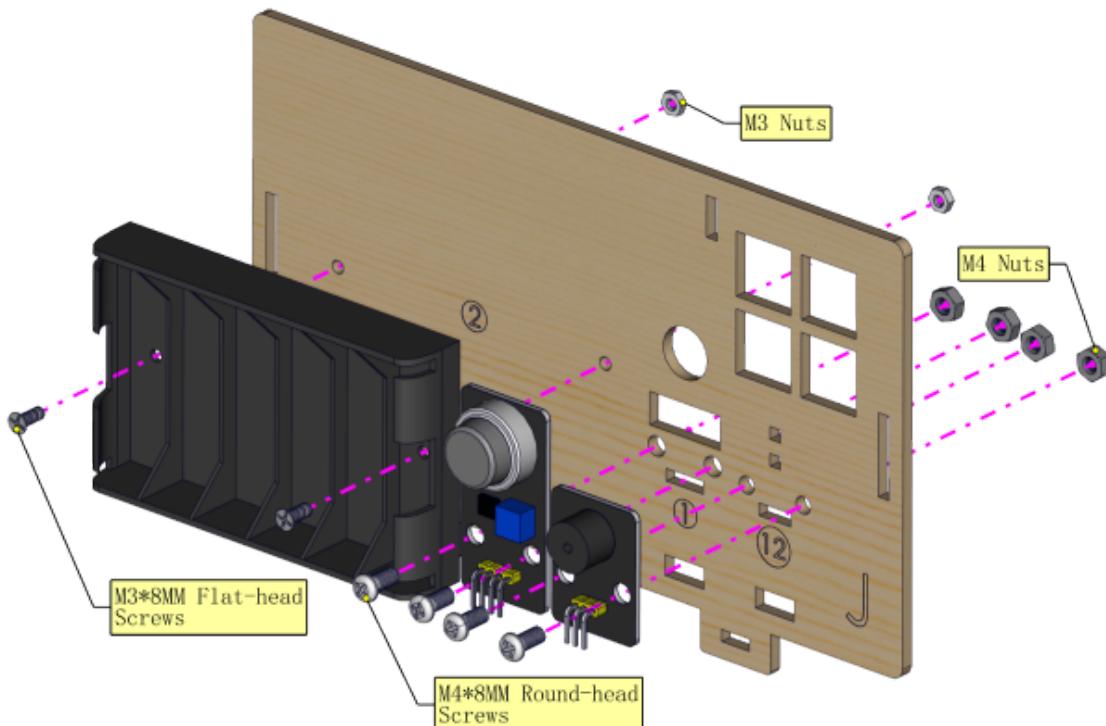
Prototype



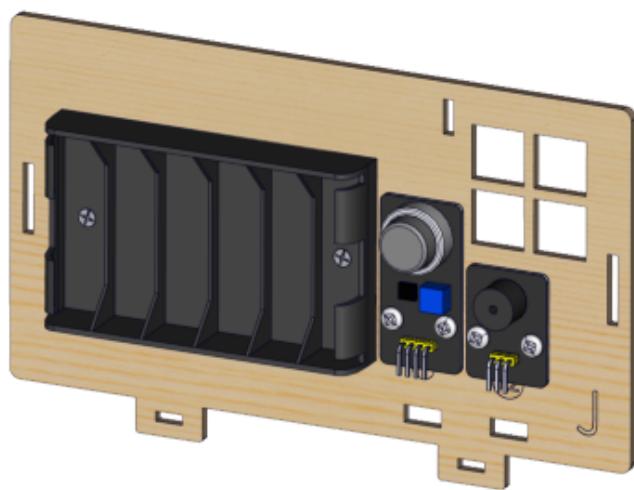
Step 3
Components Required



Installation

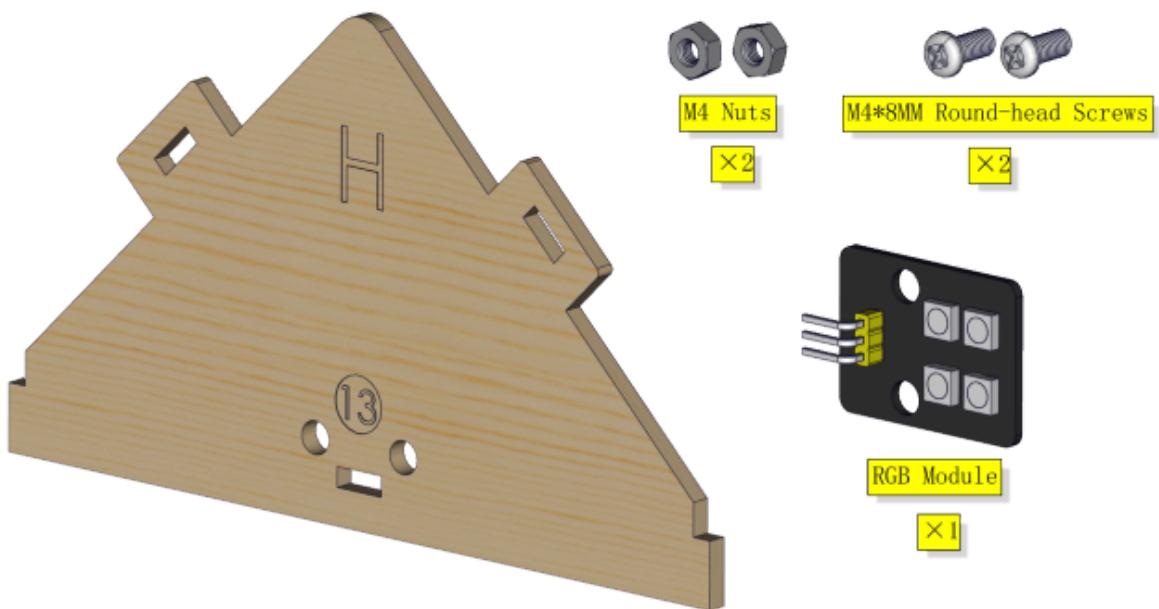


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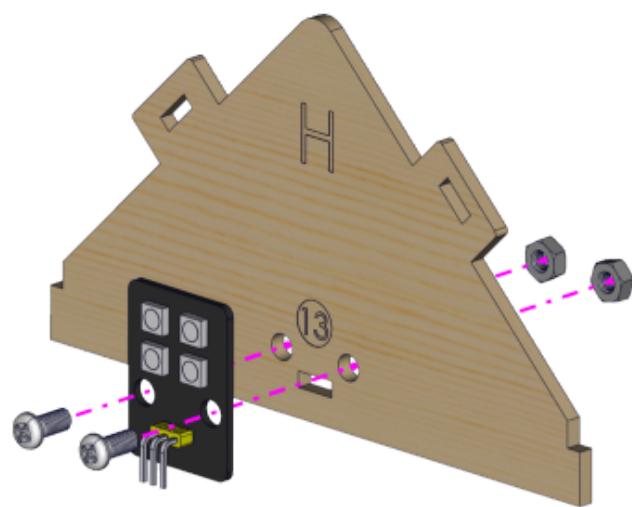


Step 4

Components Required



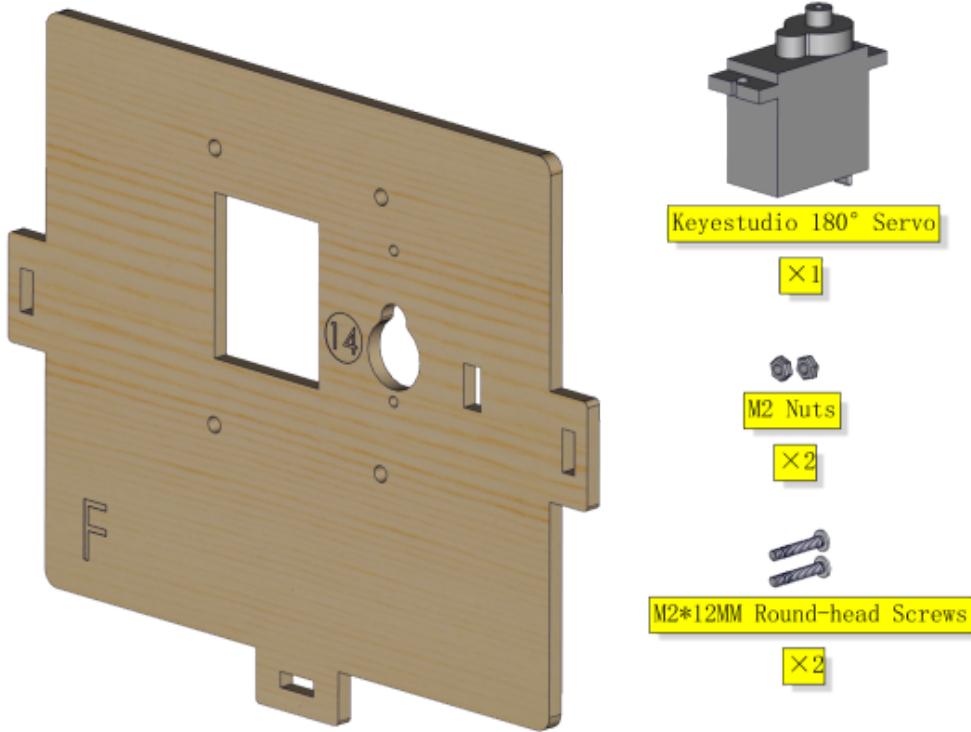
Installation Diagram



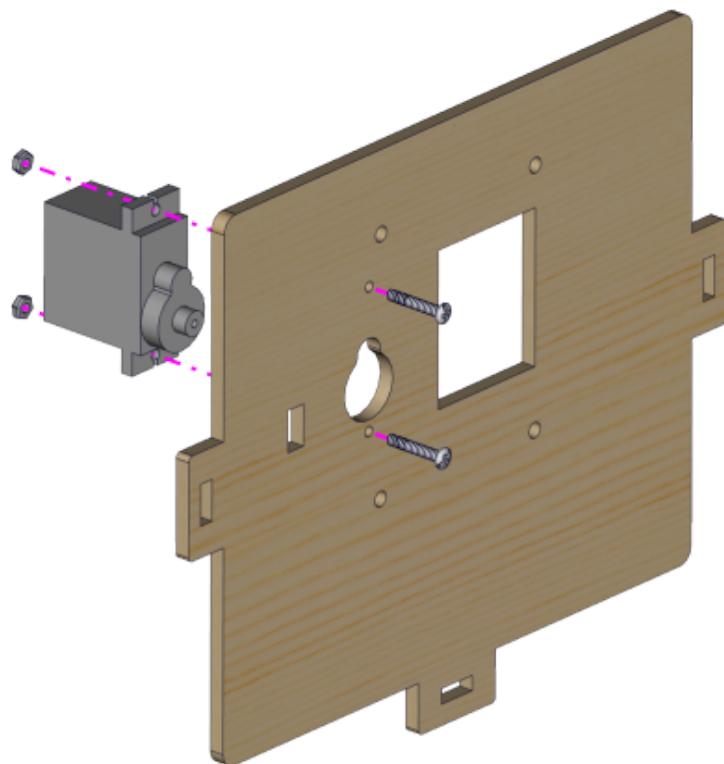
Prototype



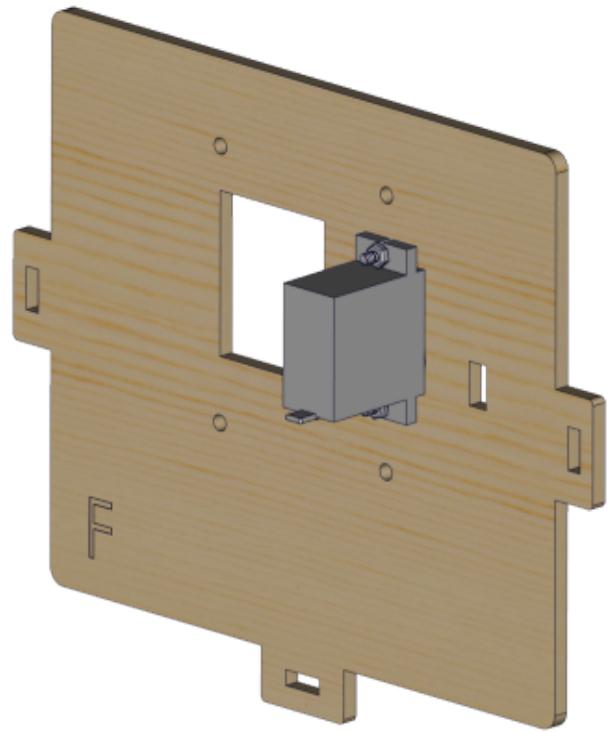
Step 5
Components Required



Step 1

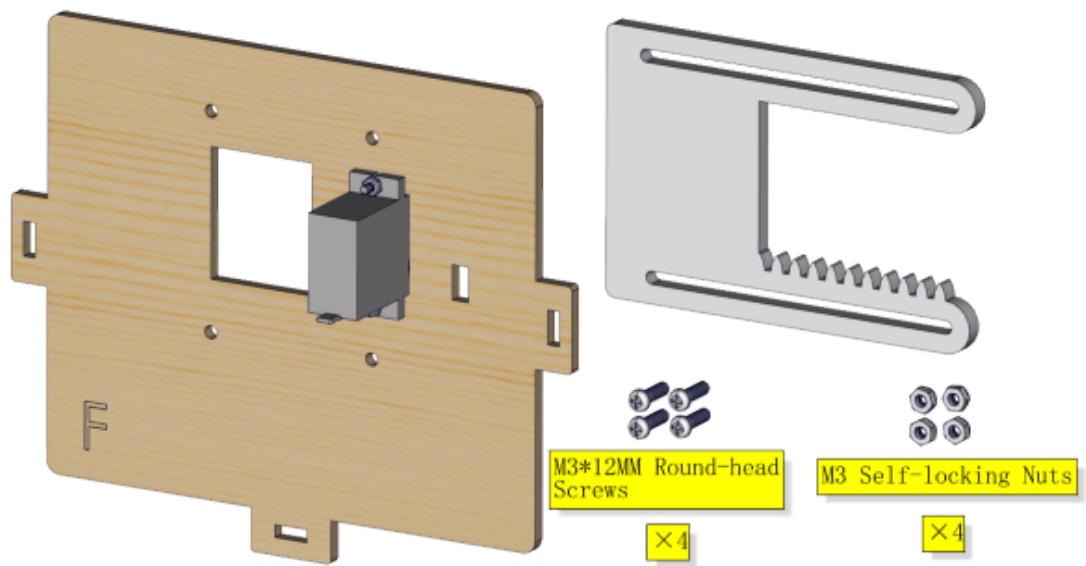


Prototype

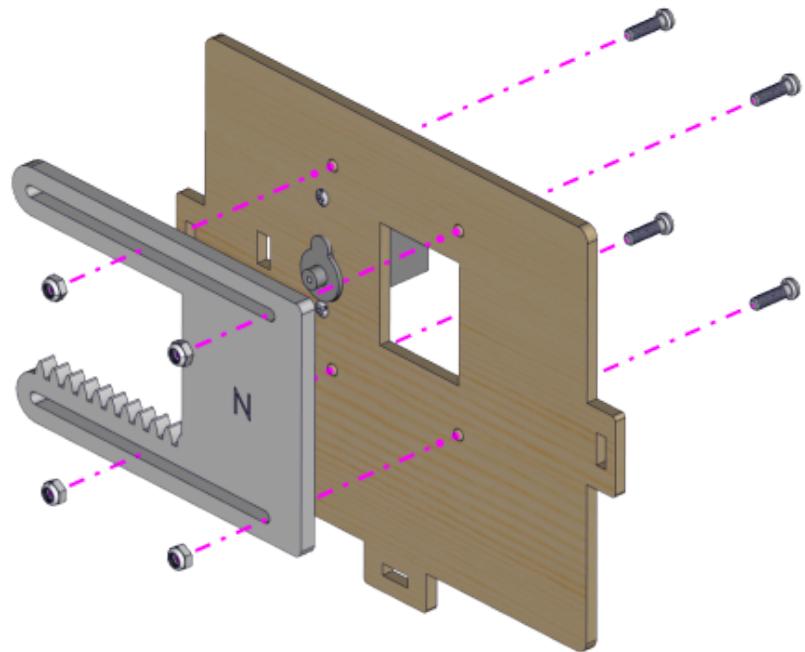


Step 6

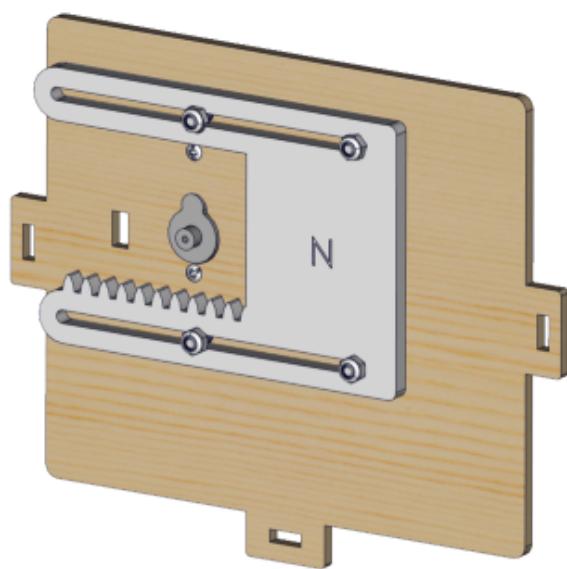
Components Required



Installation(Don't tighten the self-locking nuts)

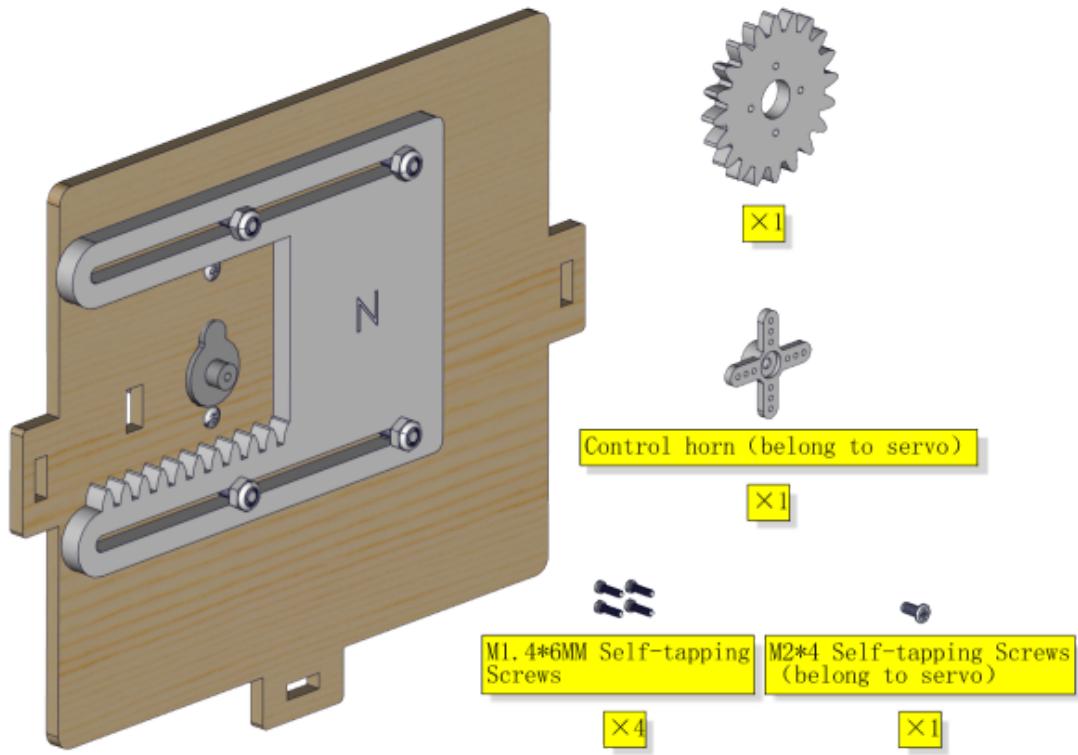


Prototype



Step 7

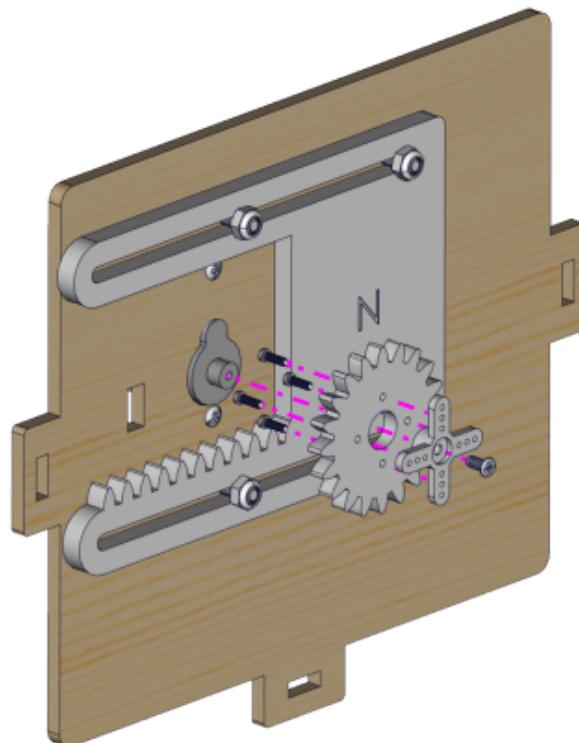
Components Required



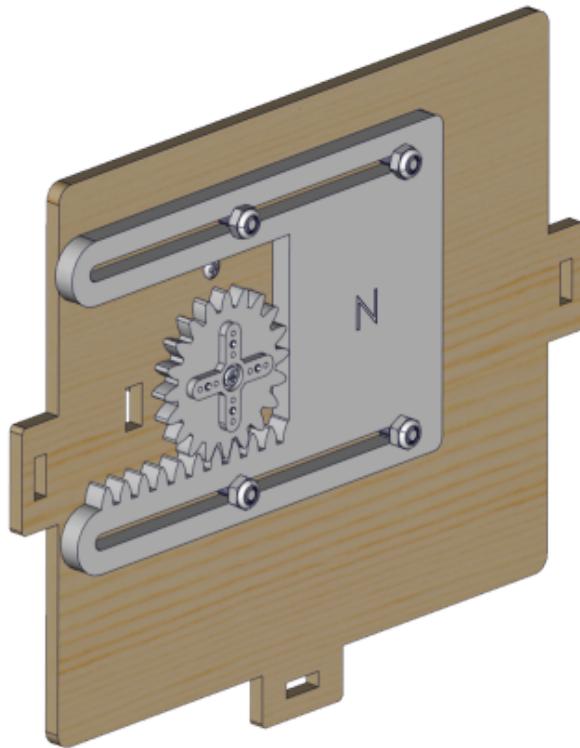
Adjust the angle of the servo
installation

Installation (As shown in the picture)

adjust servo of the window to 0 degree before

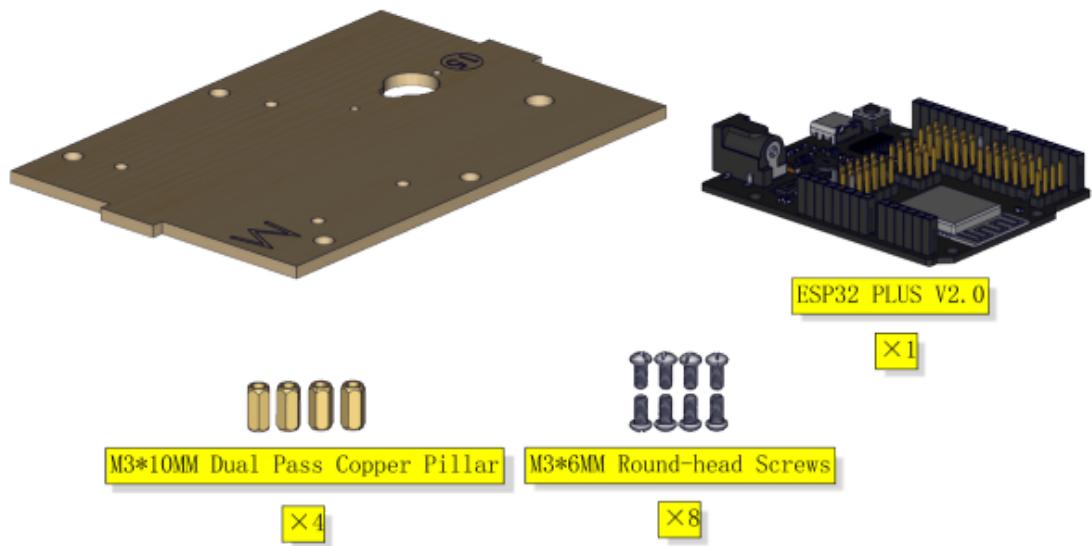


Prototype

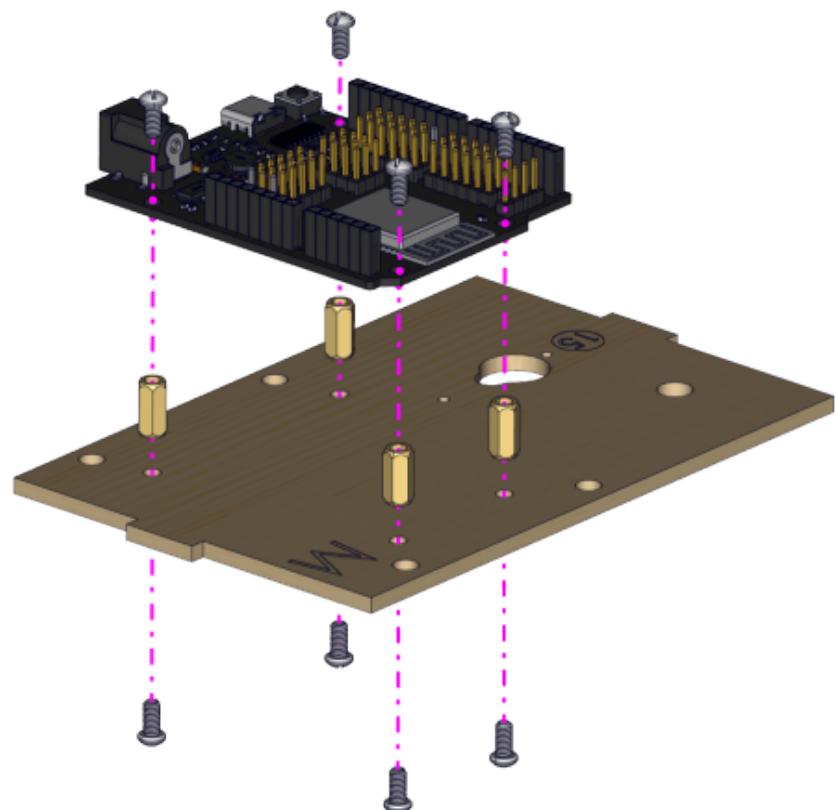


Step 8

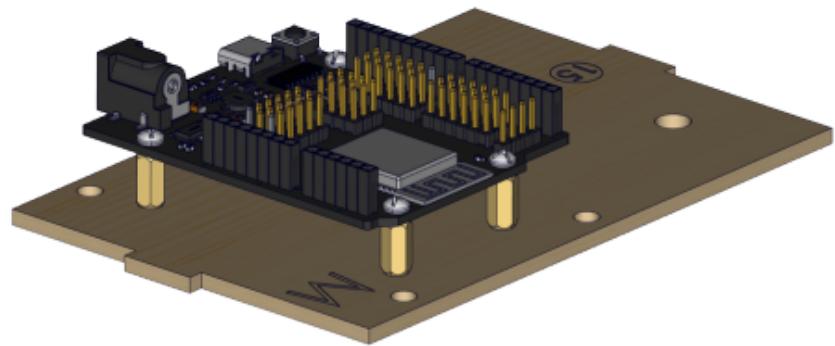
Components Required



Installation Diagram

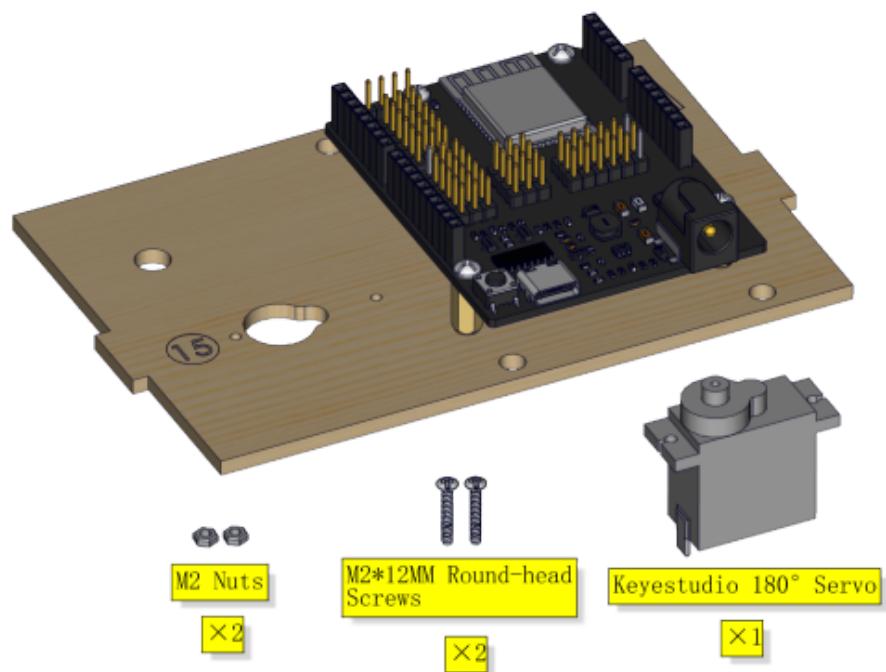


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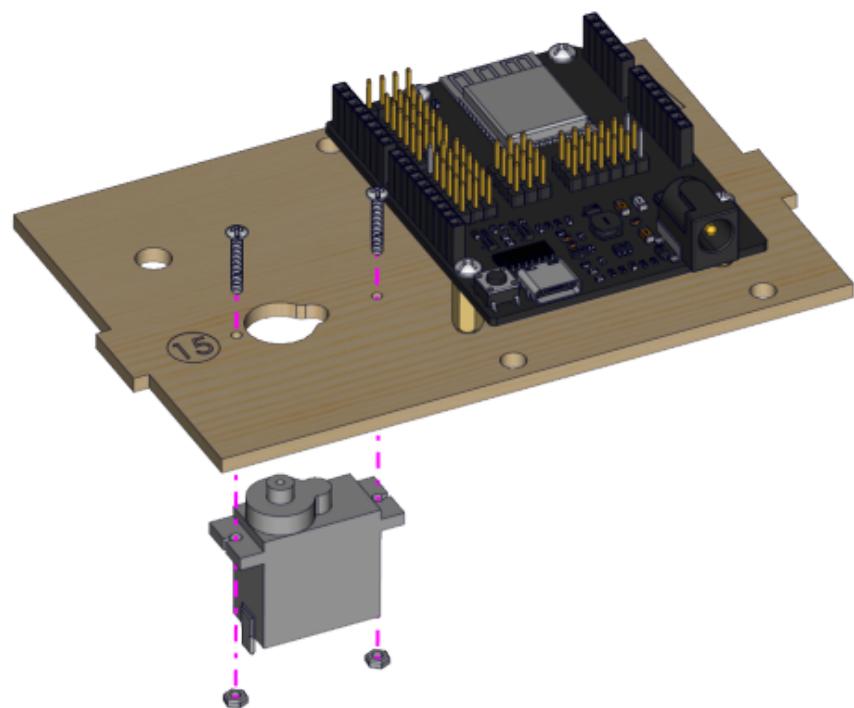


Step 9

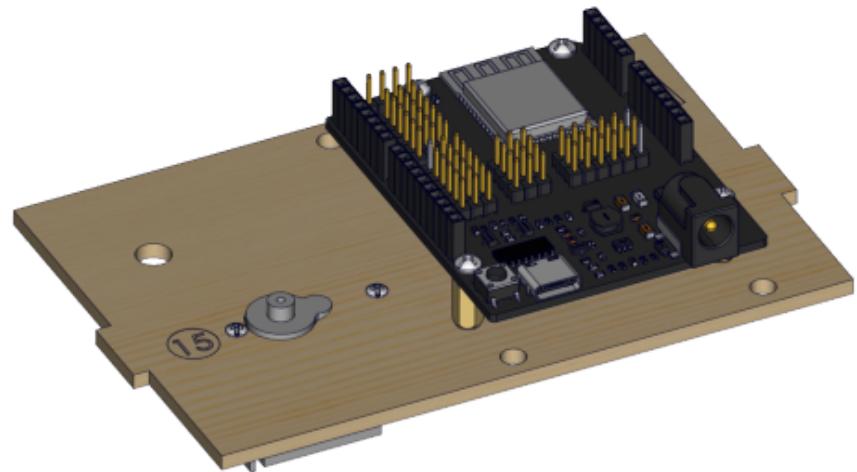
Components Required



Installation Diagram

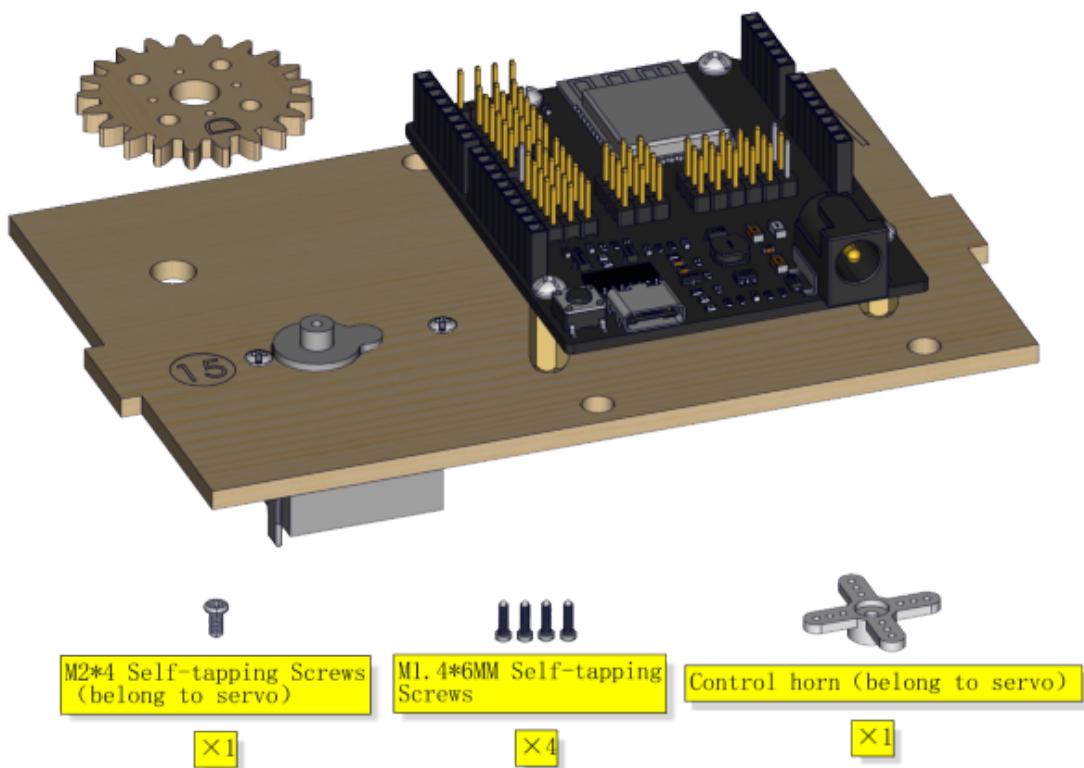


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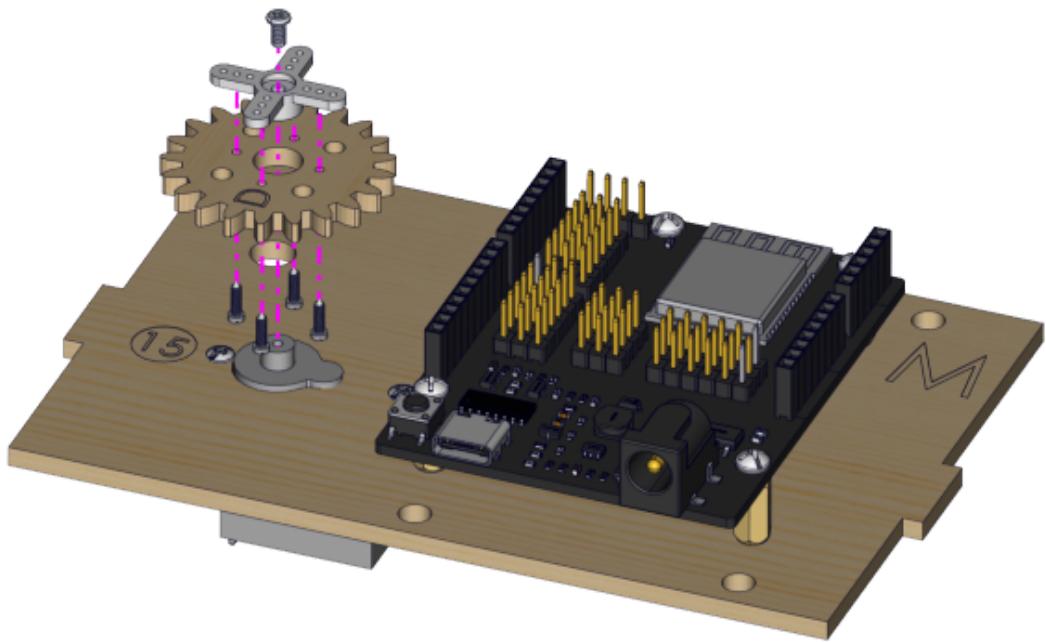


Step 10

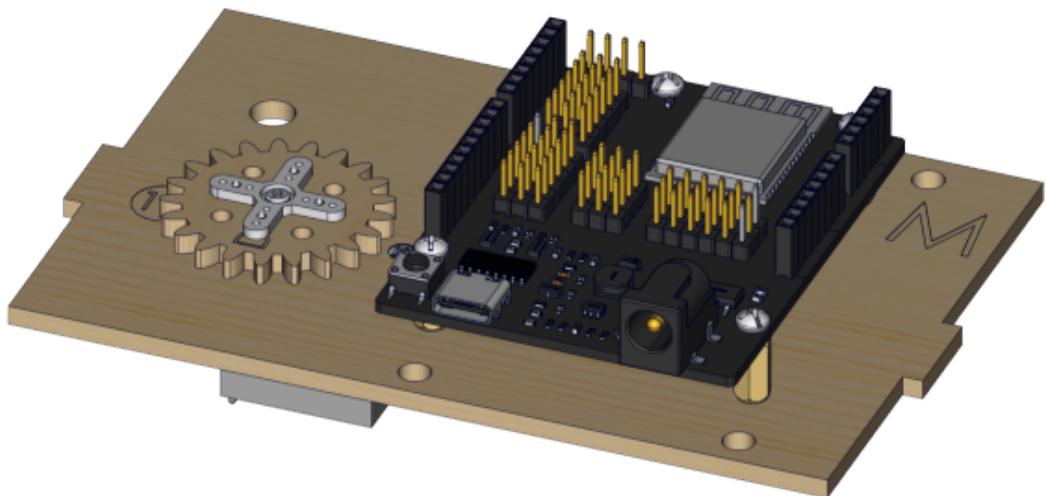
Components Required



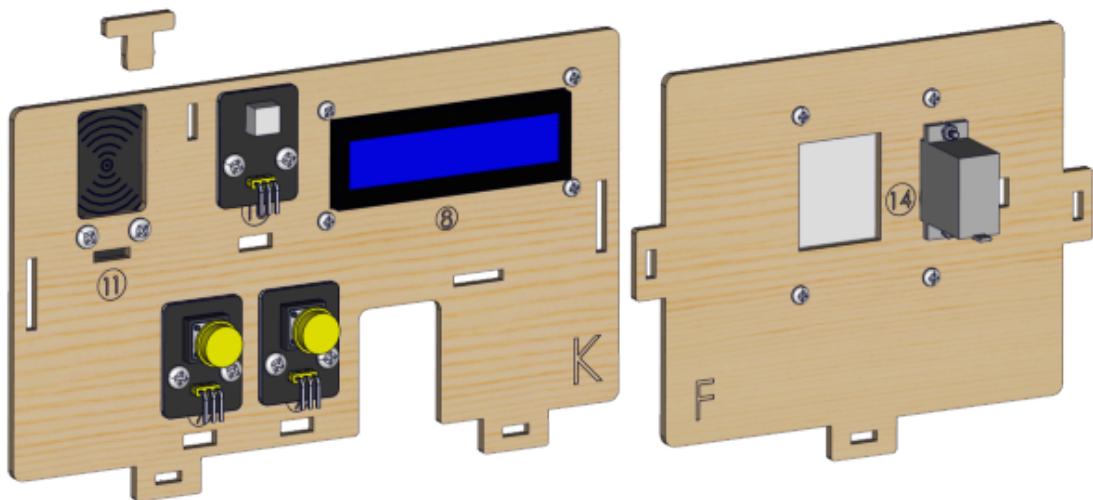
Installation Diagram



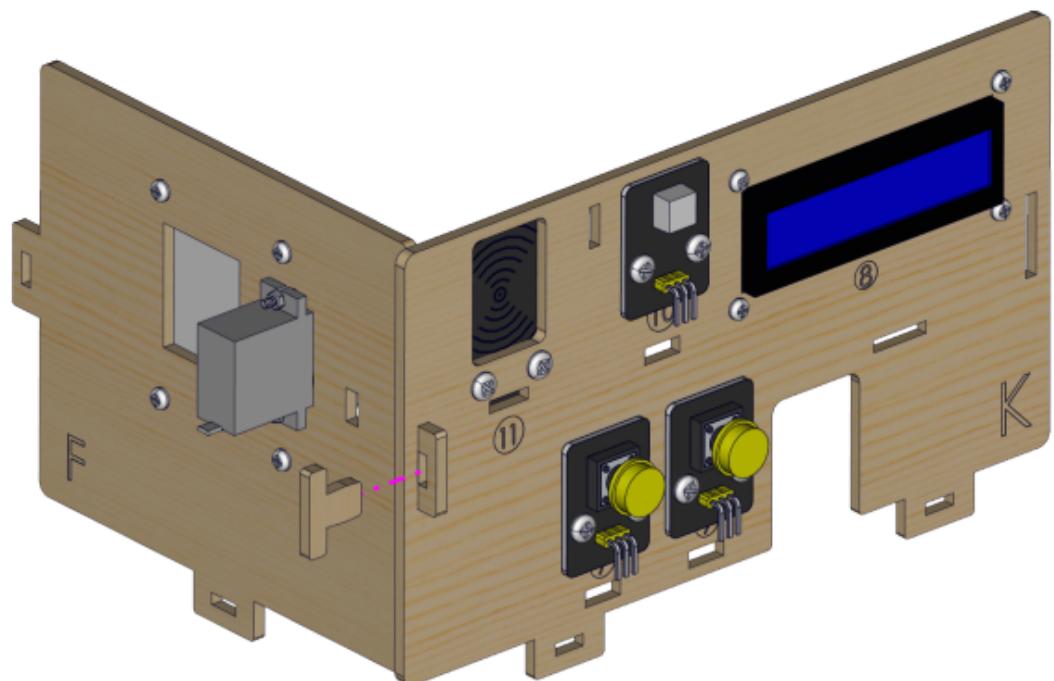
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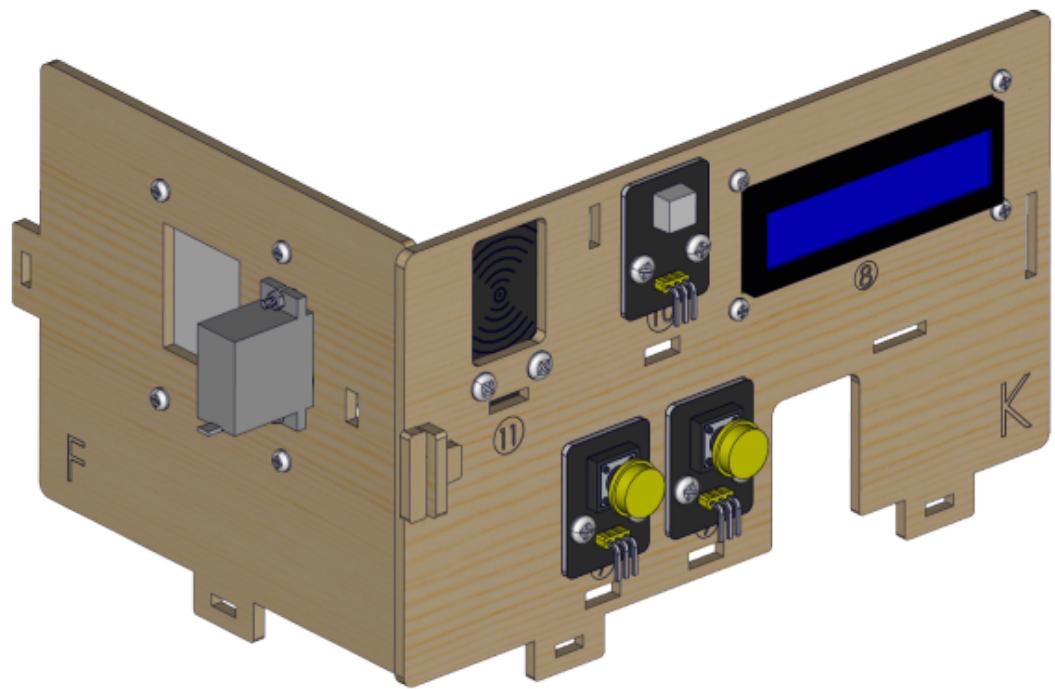
Step 11
Components Required



Installation Diagram

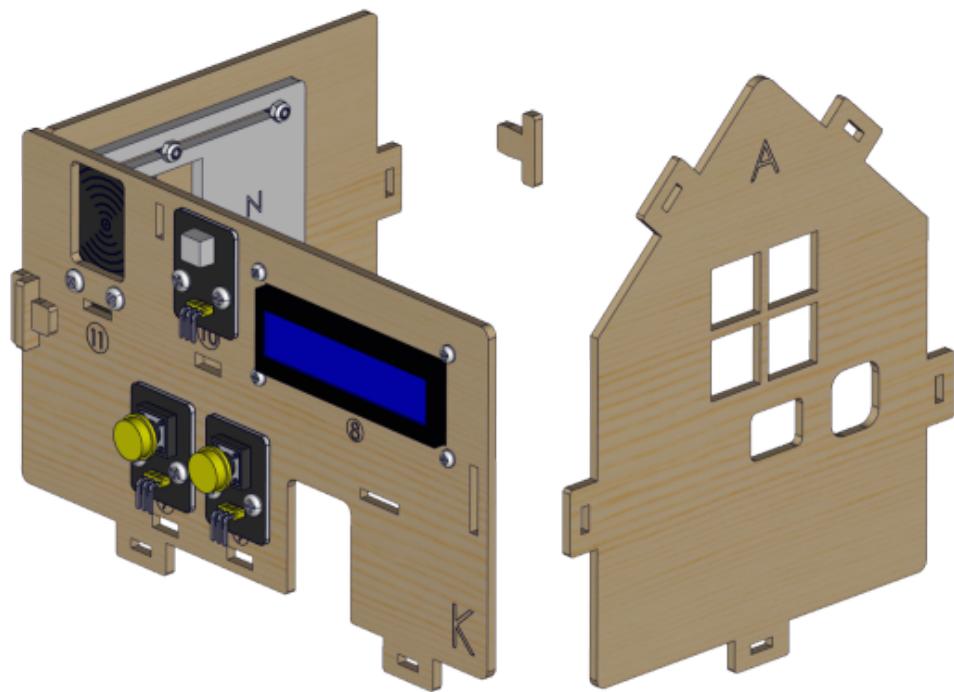


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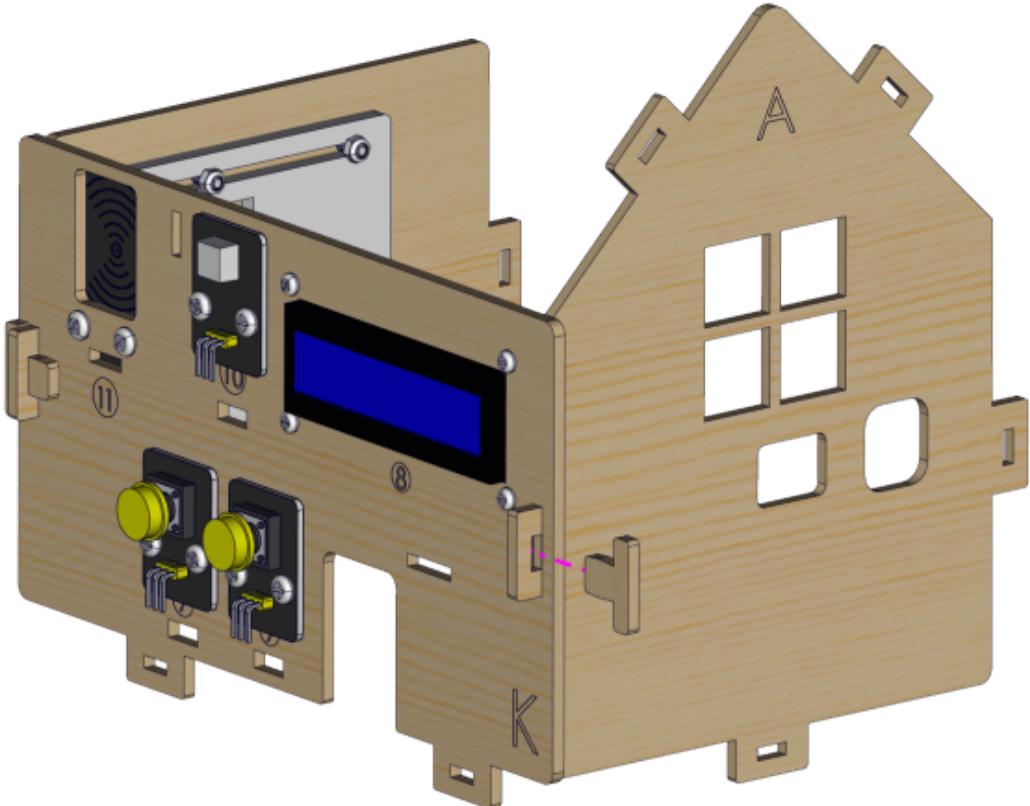


Step 12

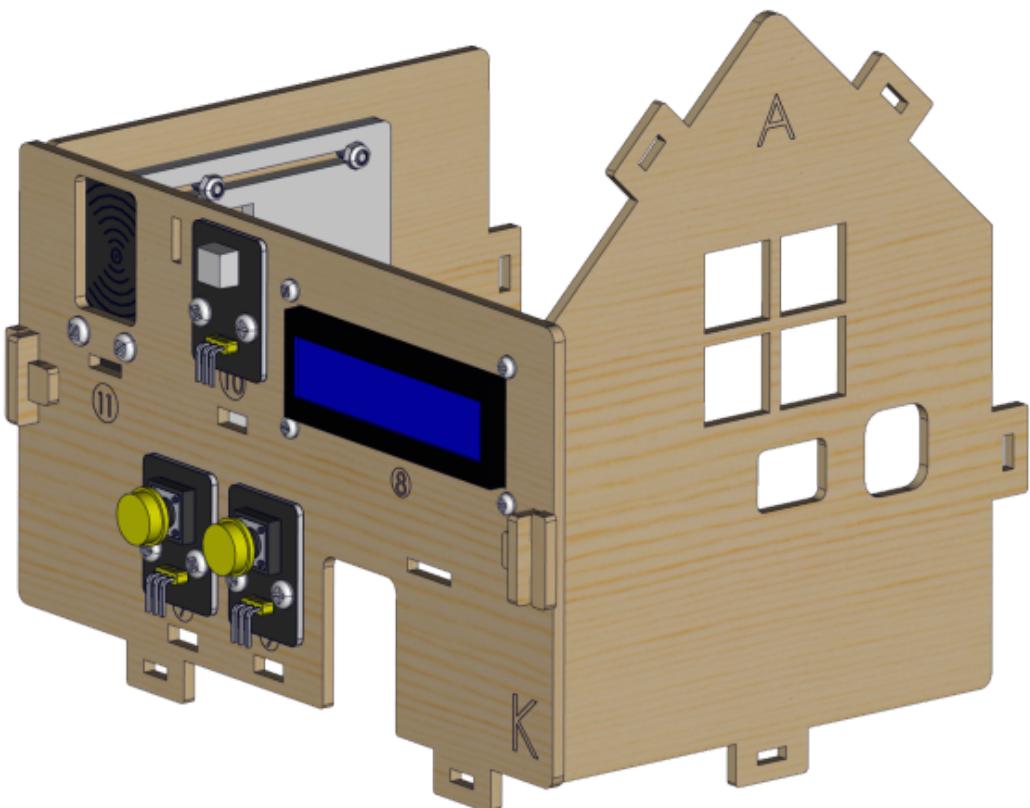
Components Required



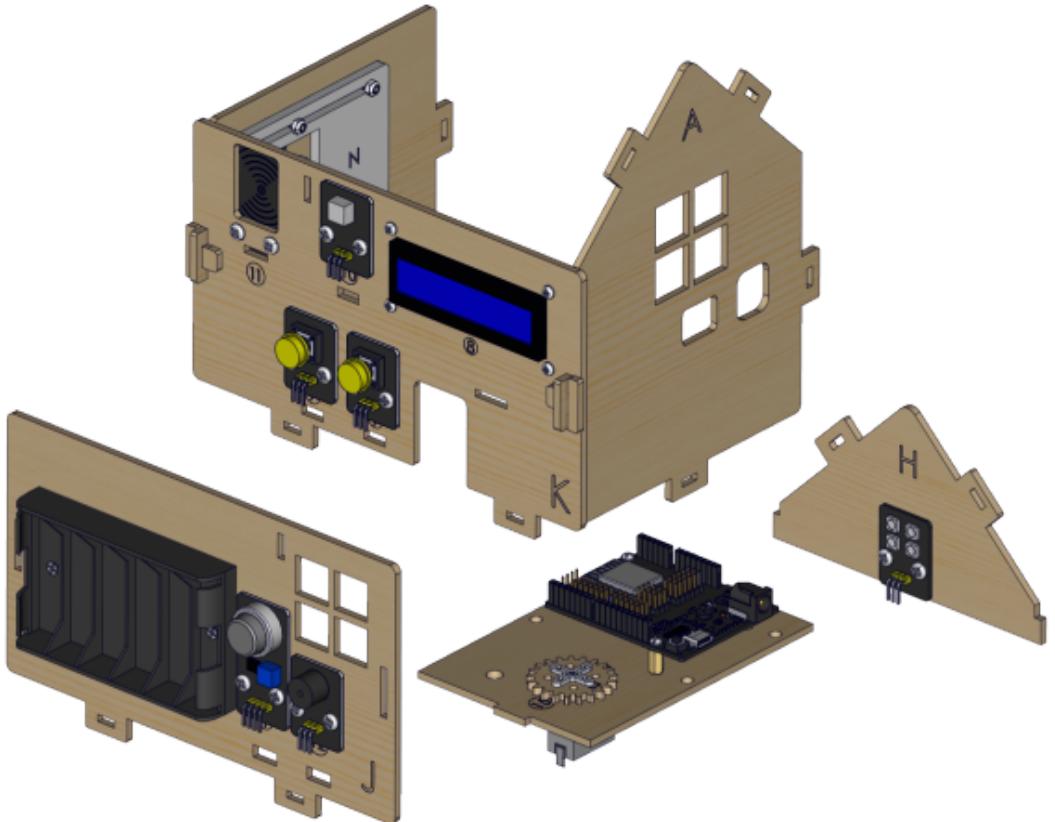
Installation Diagram



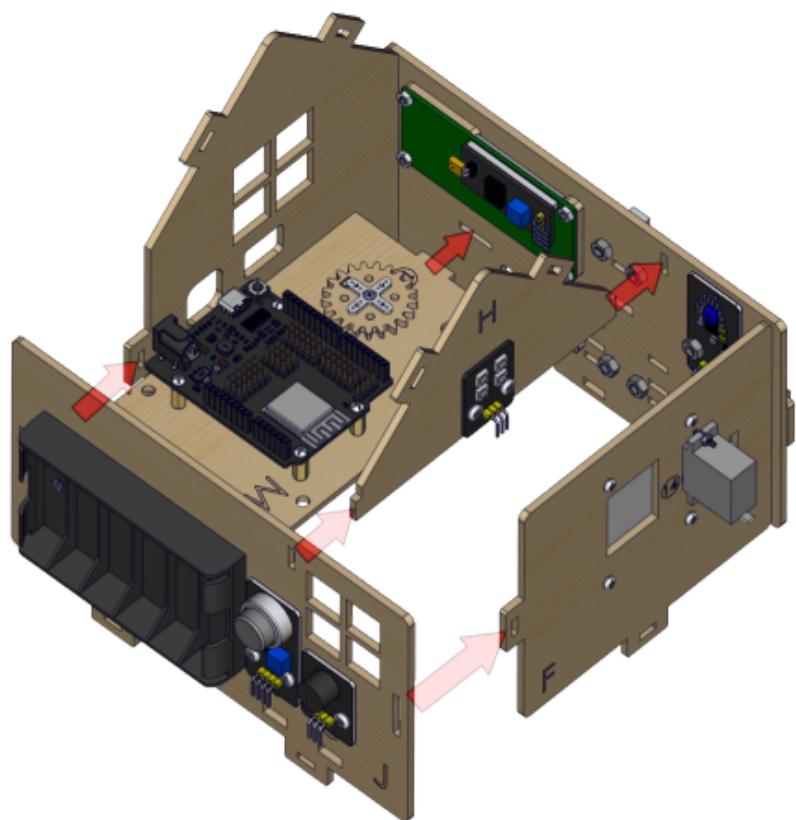
Prototype



Step 13
Components Required



Installation Diagram

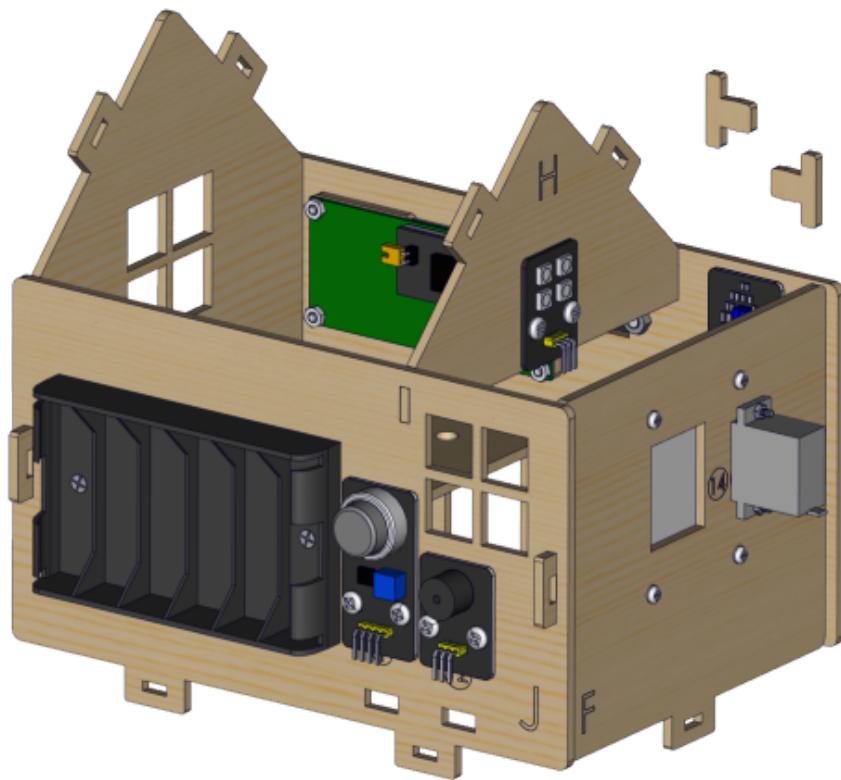


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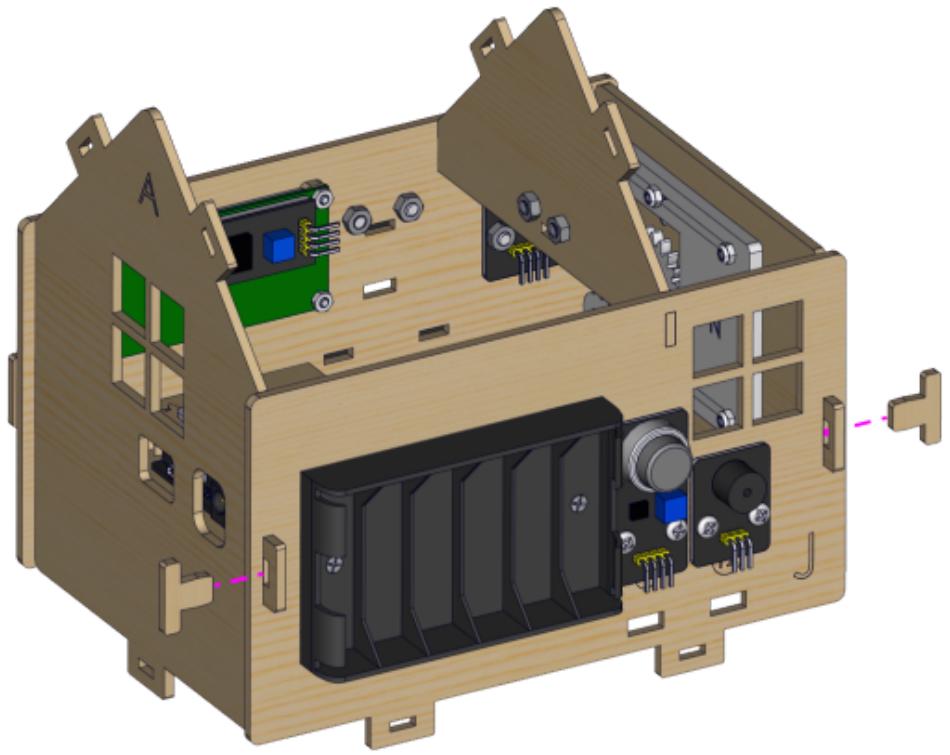


Step 14

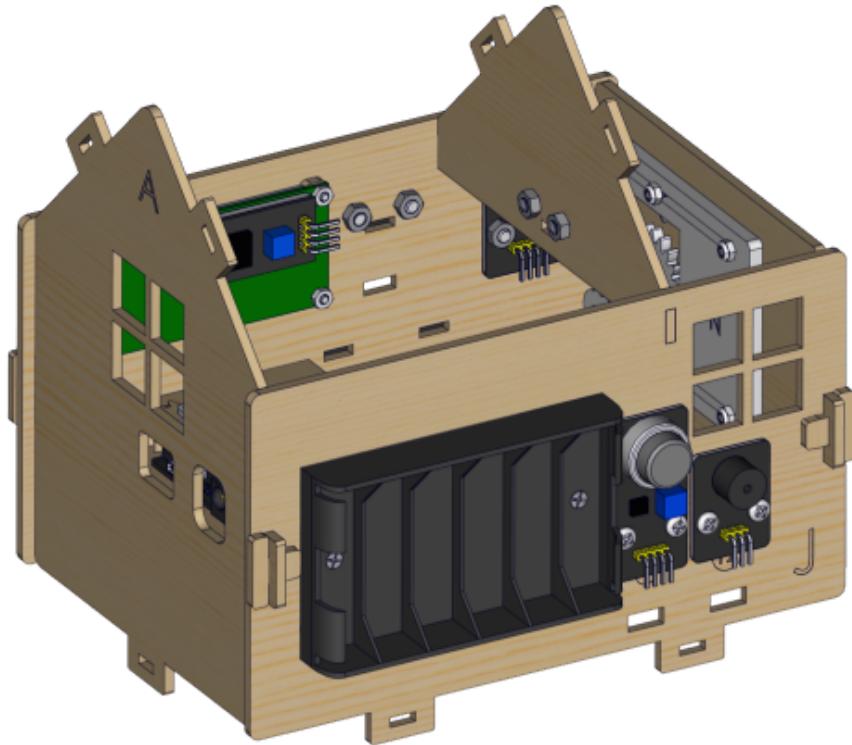
Components Required



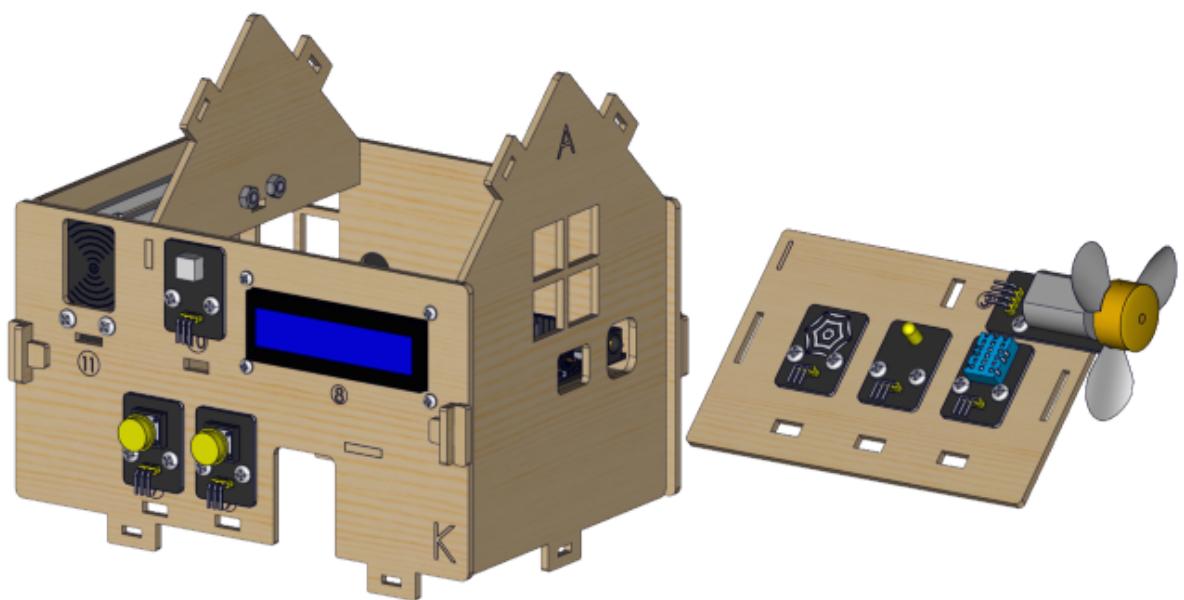
Installation Diagram



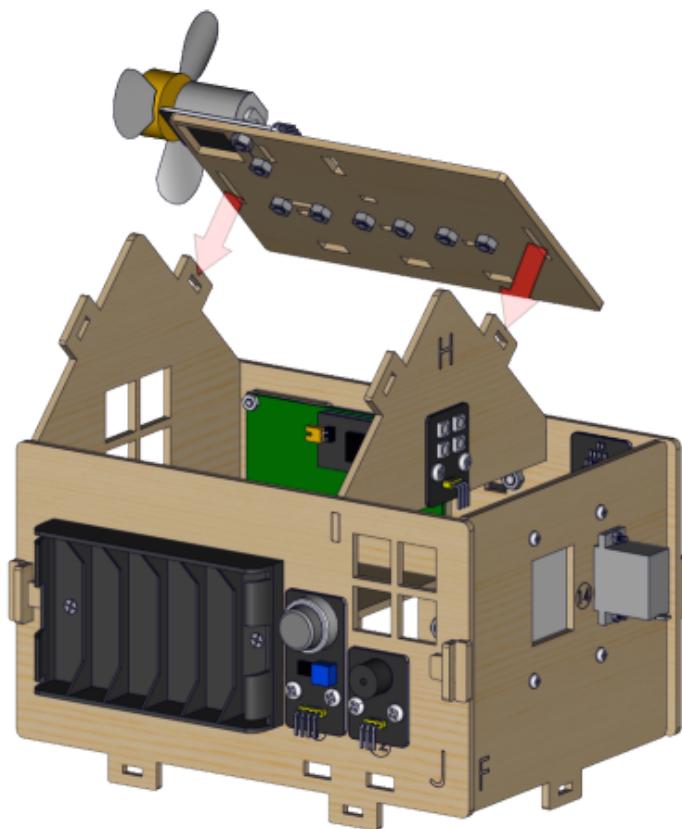
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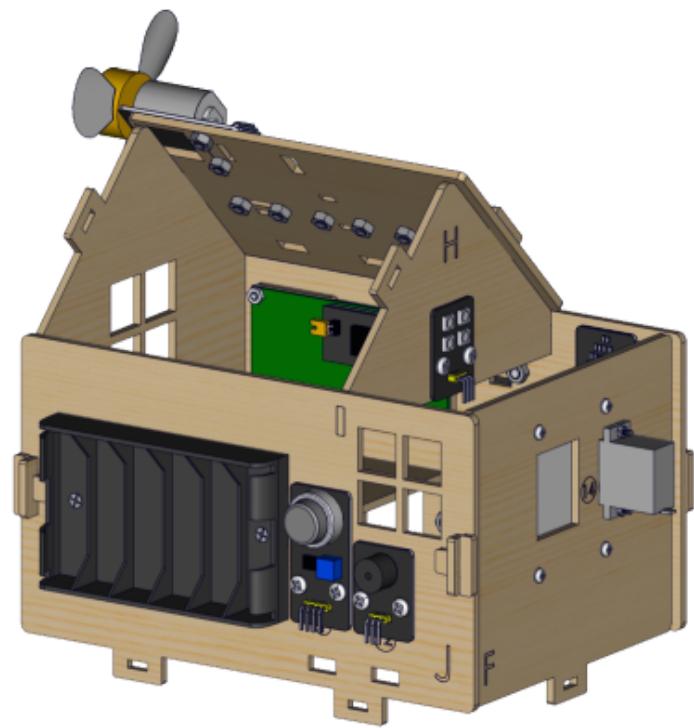
Step 15
Components Required



Installation Diagram



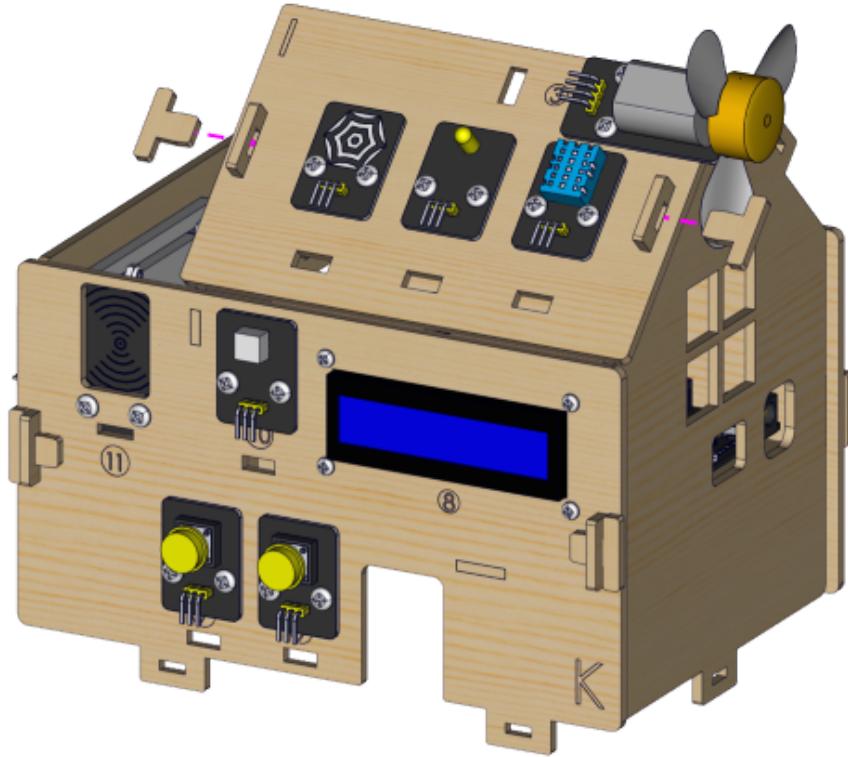
Prototype



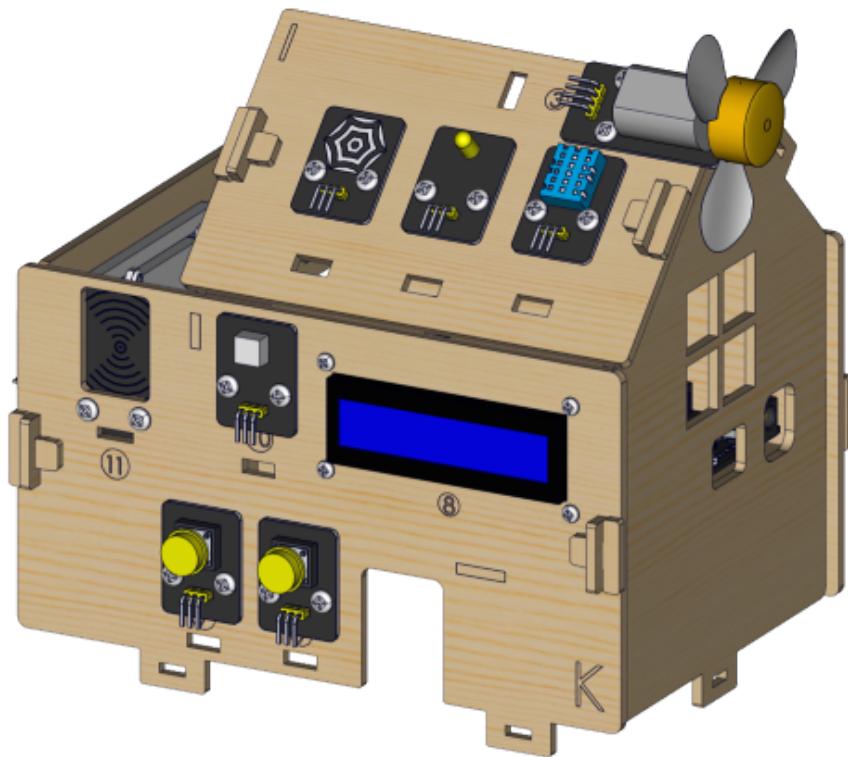
Step 16
Components Required



Installation Diagram

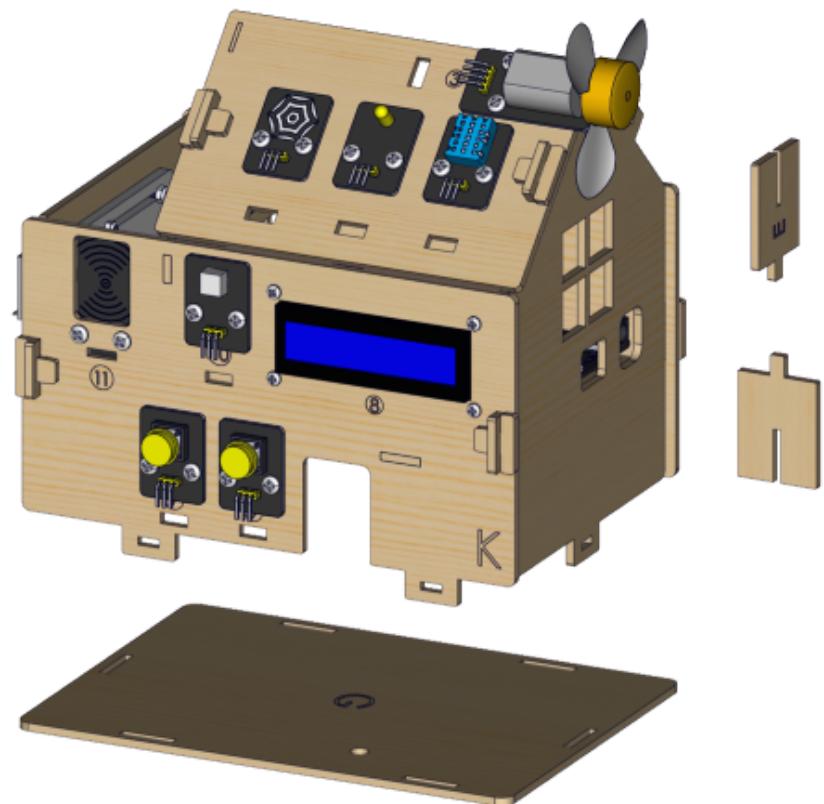


Prototype

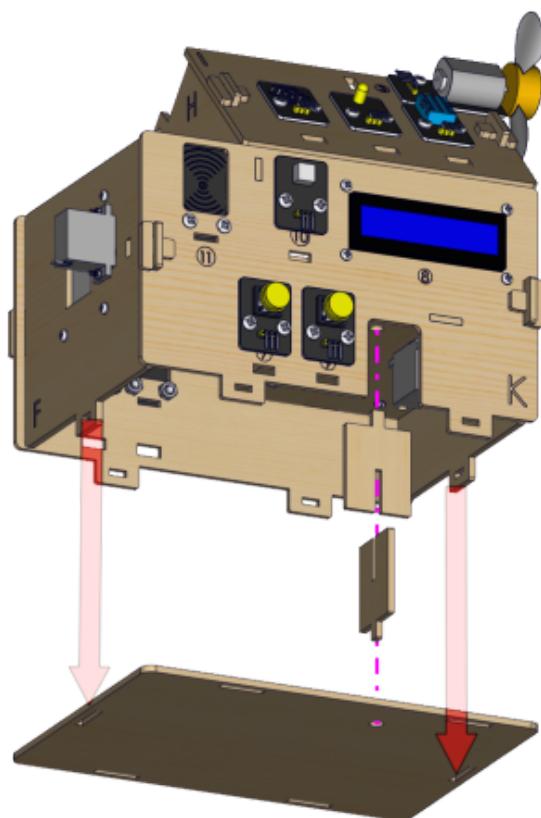


Step 17

Components Required



Installation Diagram



Prototype

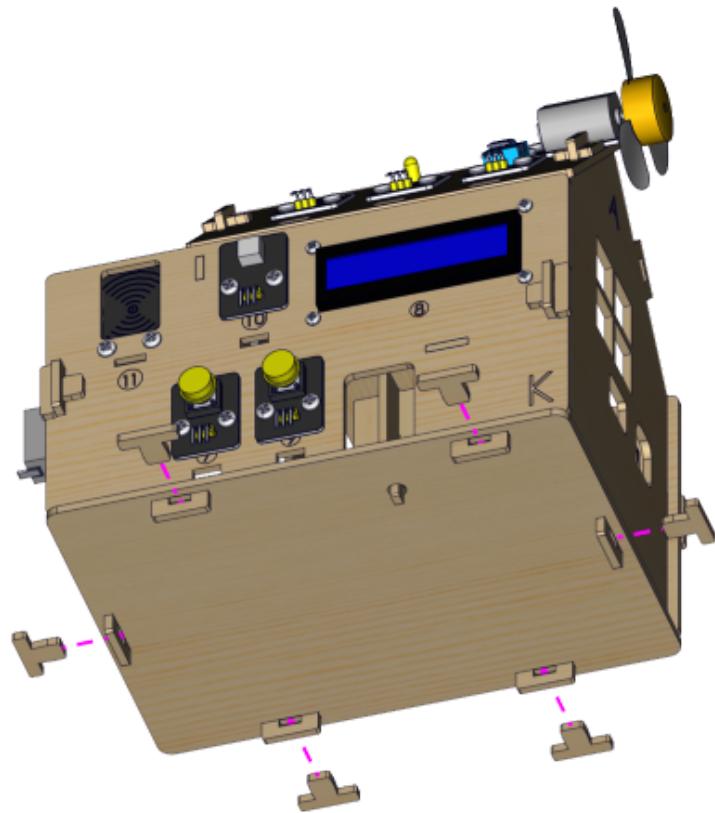


Step 18

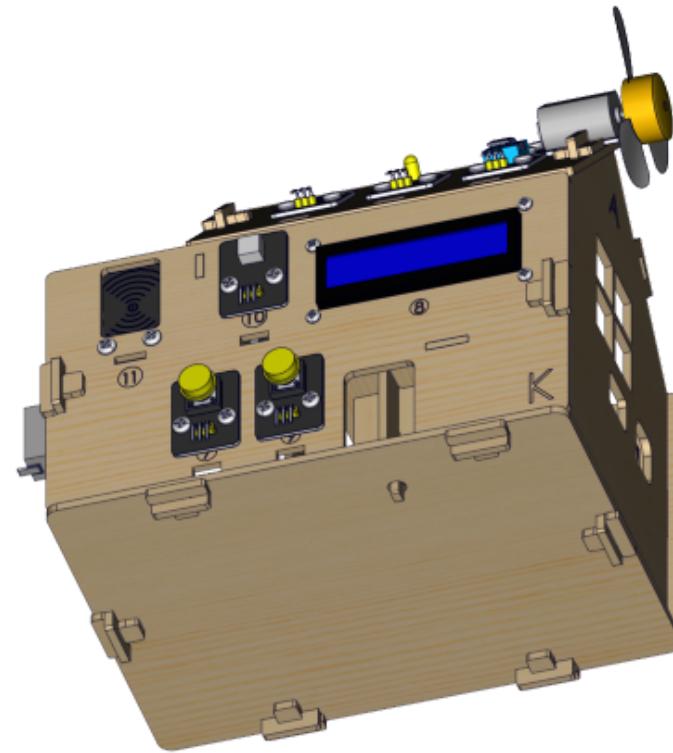
Components Required



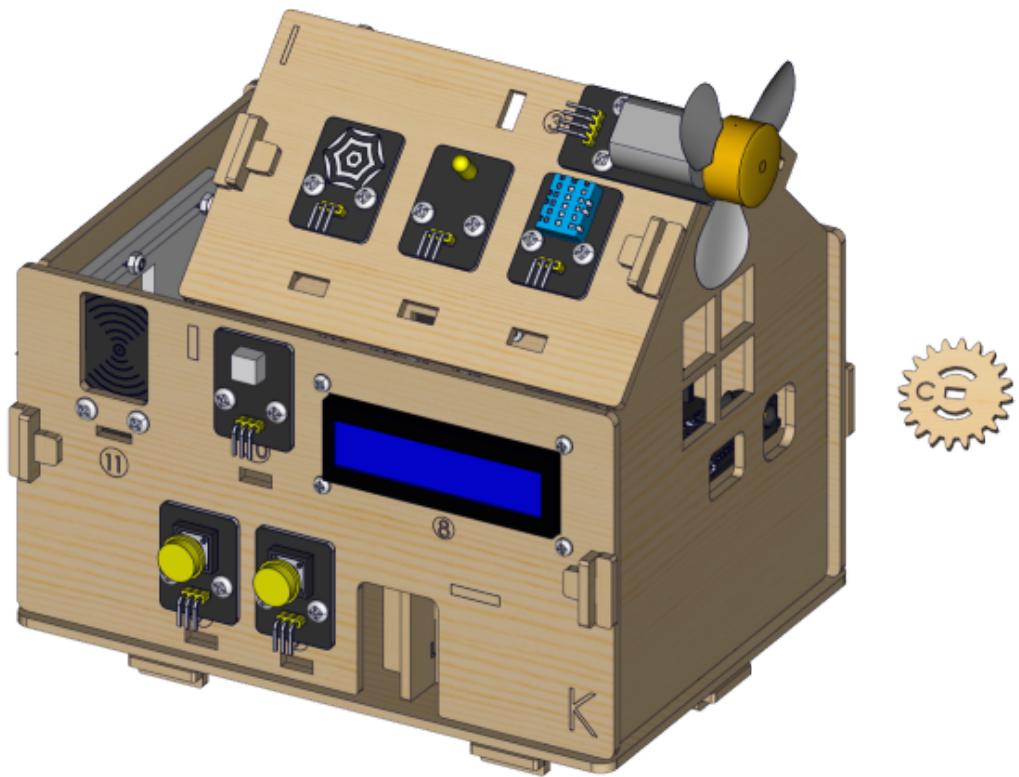
Installation Diagram



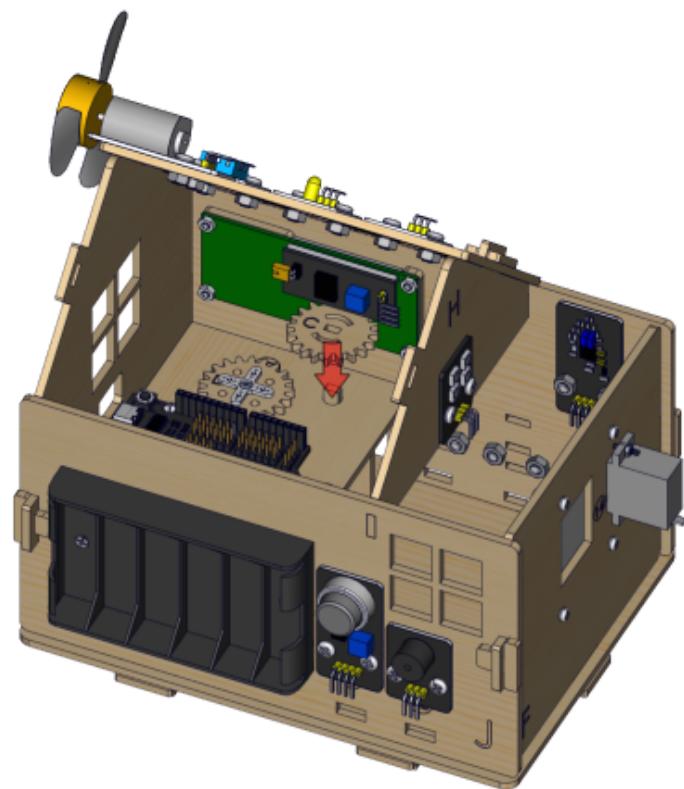
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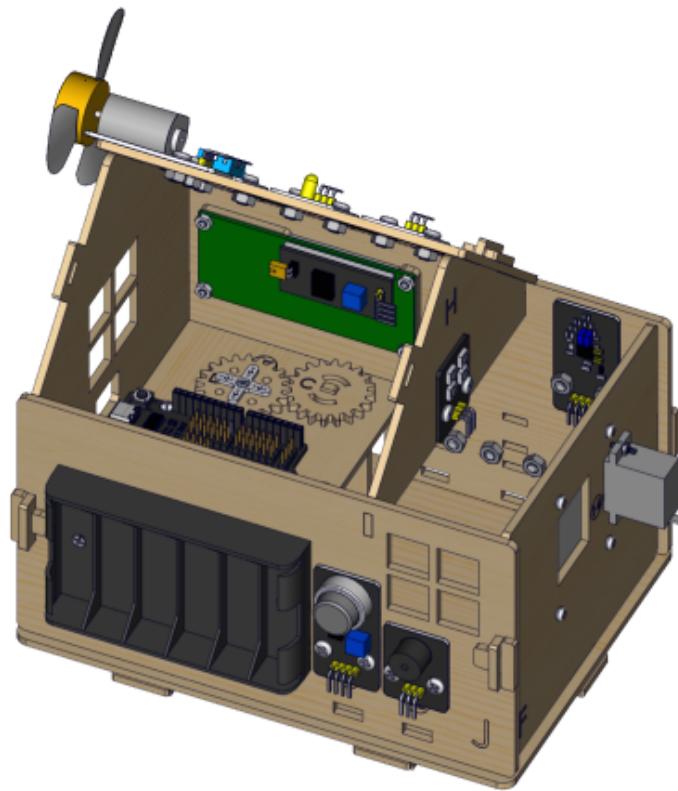
Step 19
Components Required



Installation Diagram

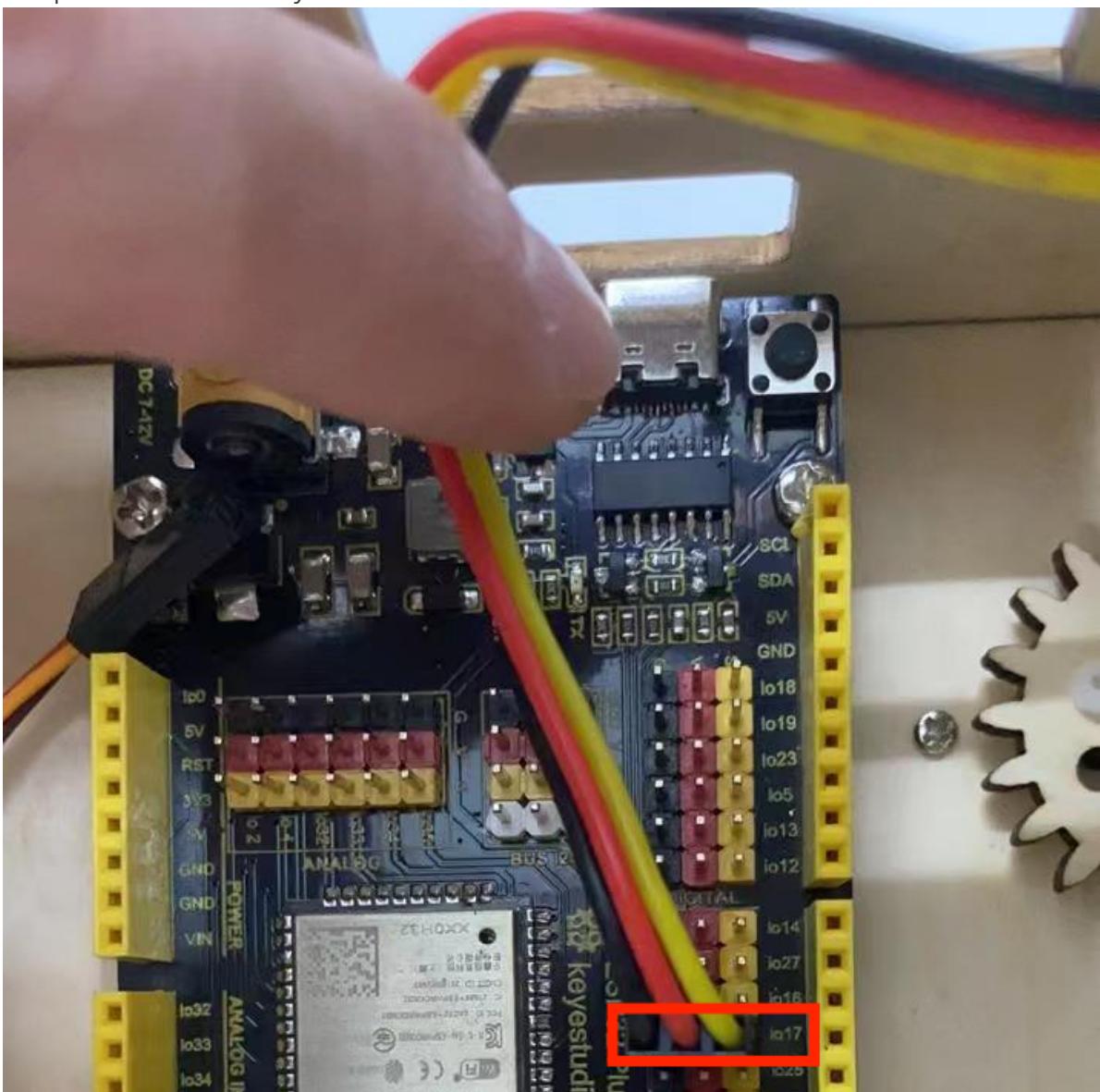


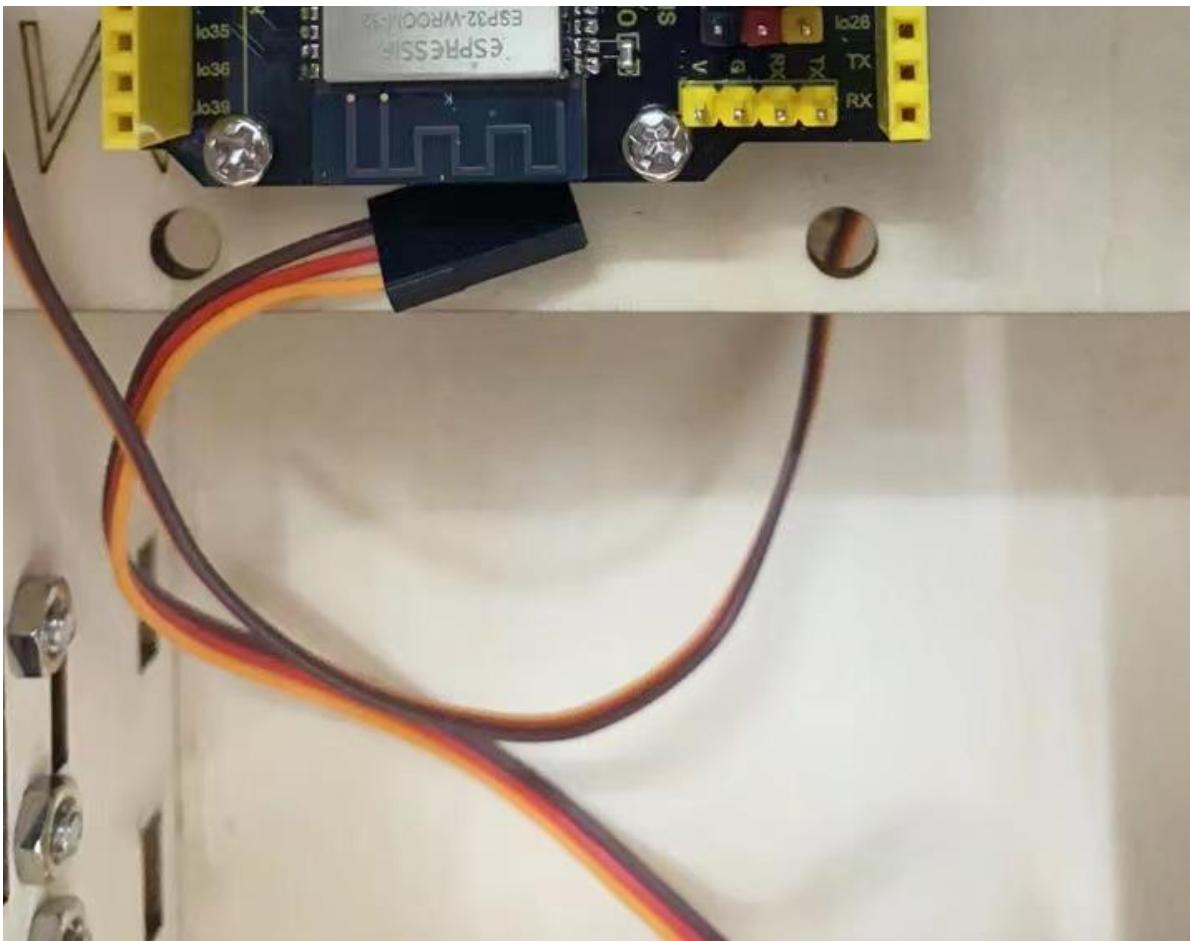
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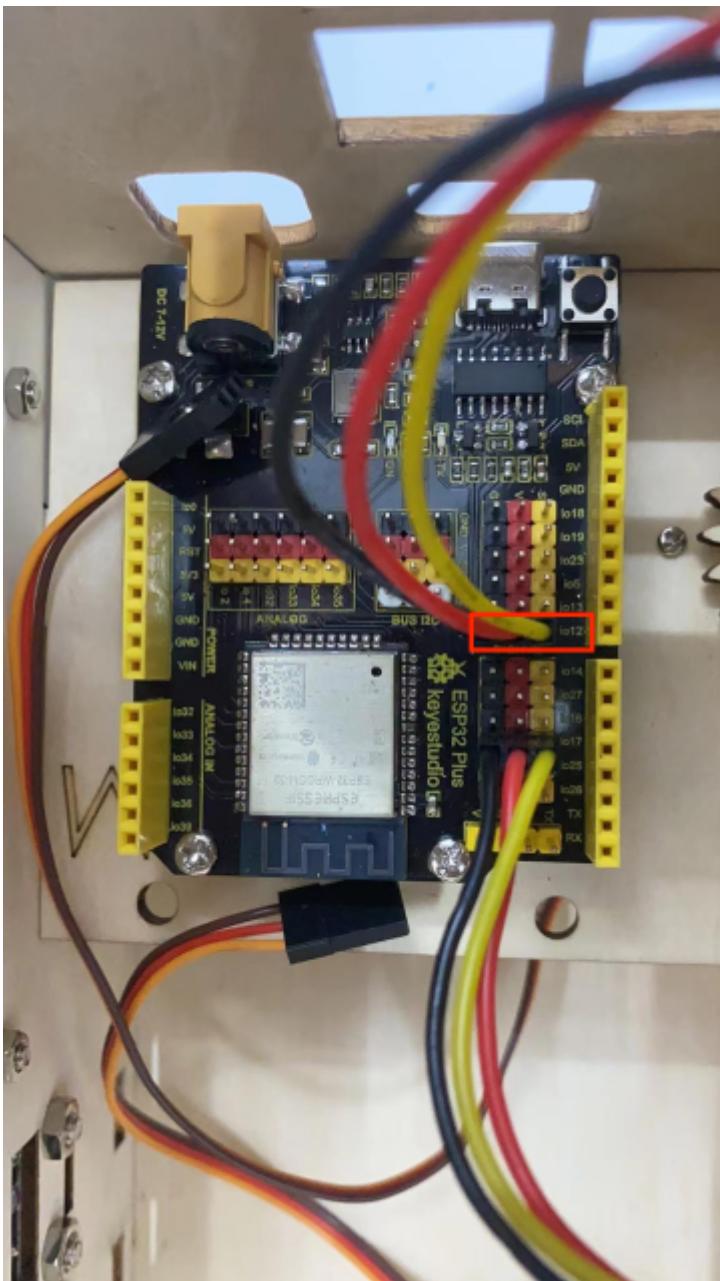
Wiring Part

temperature and humidity to io17

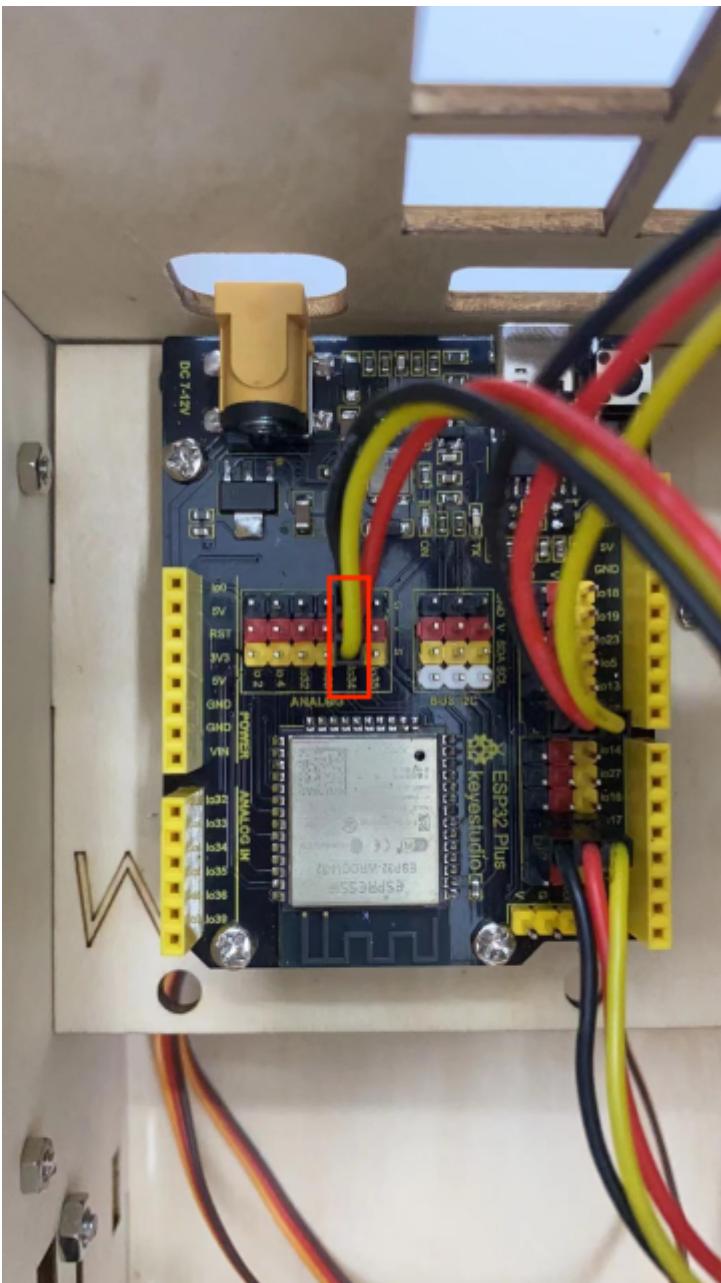




yellow led module to io12

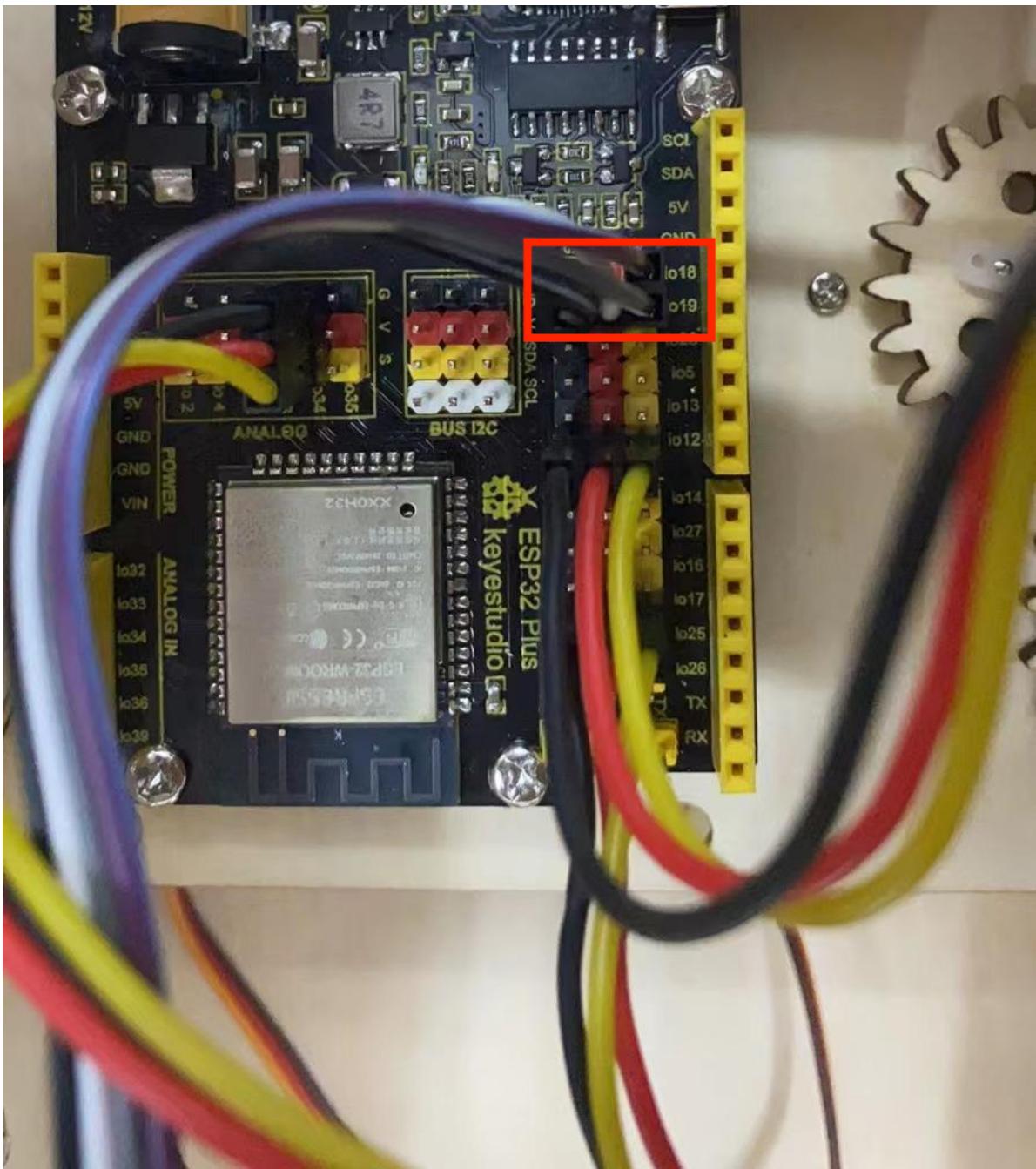


steam sensor to the io34

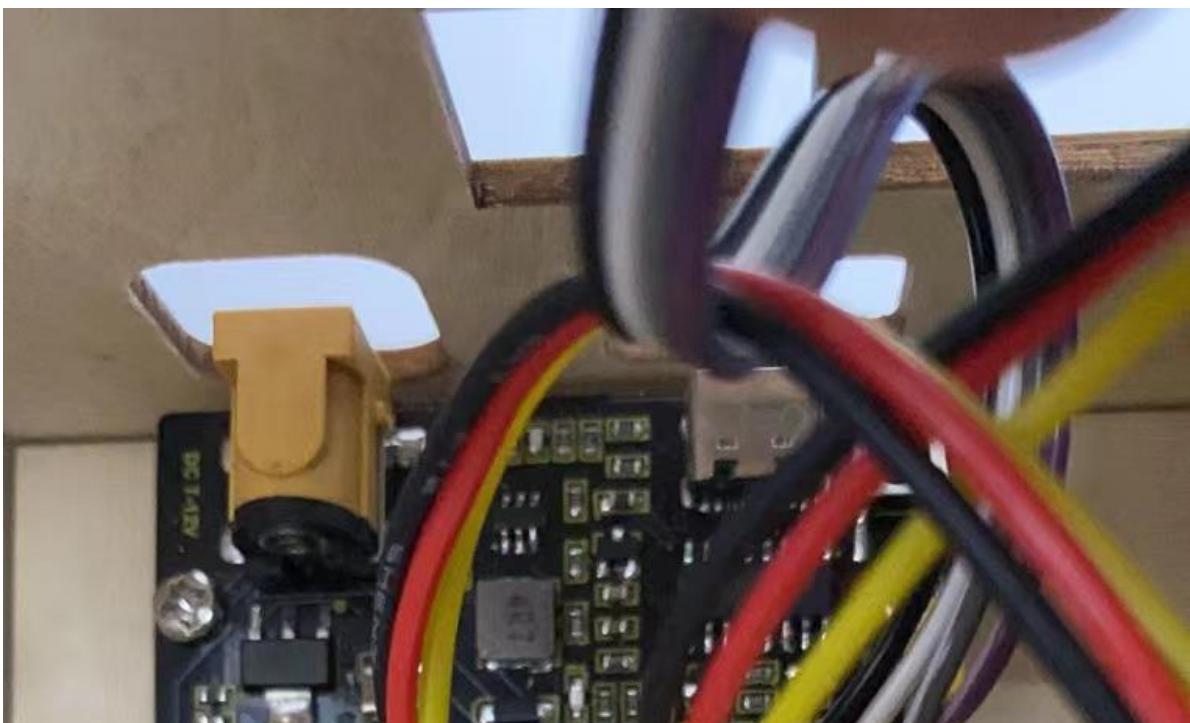


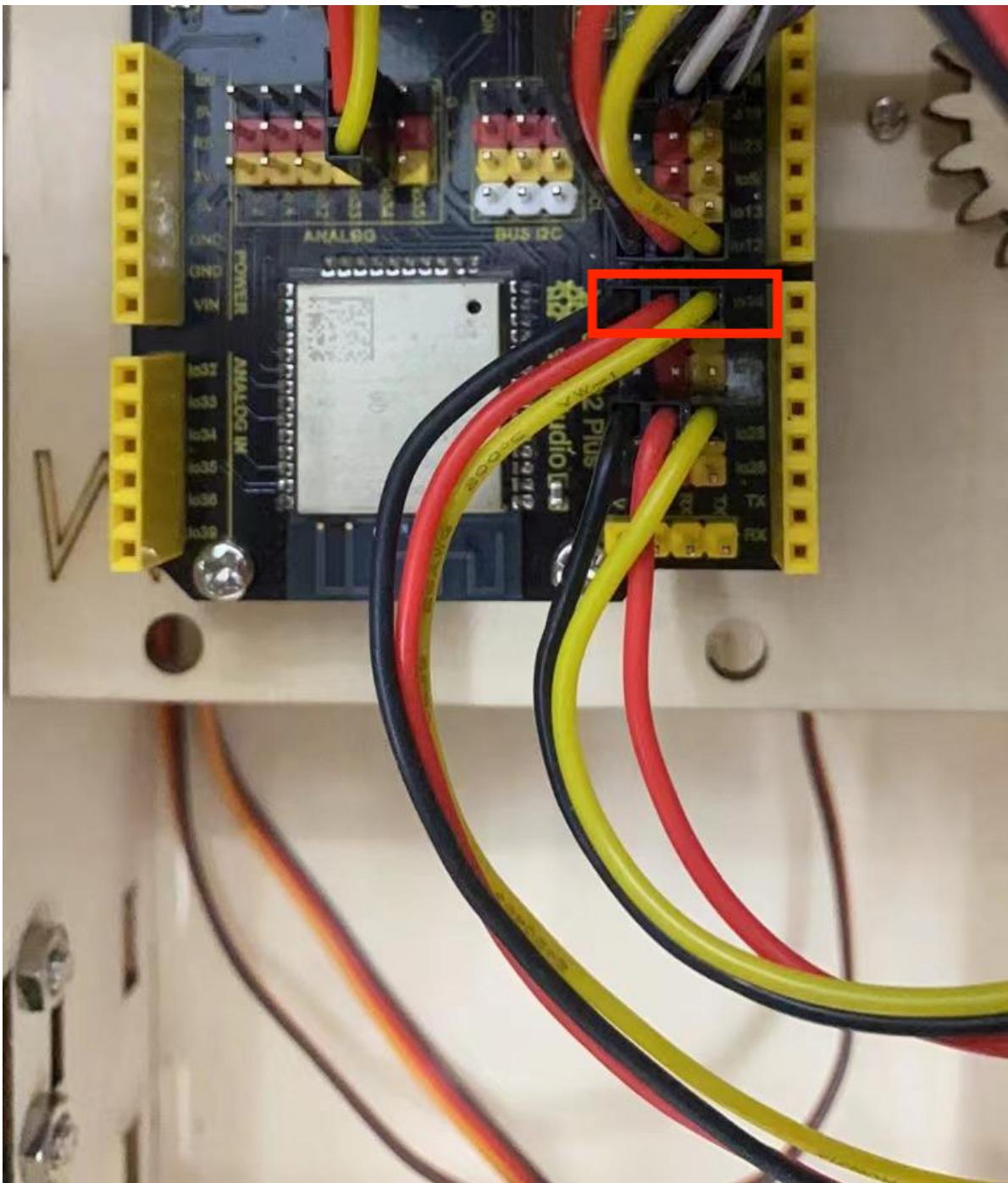
fan (IN- to io18, IN+ to io19)



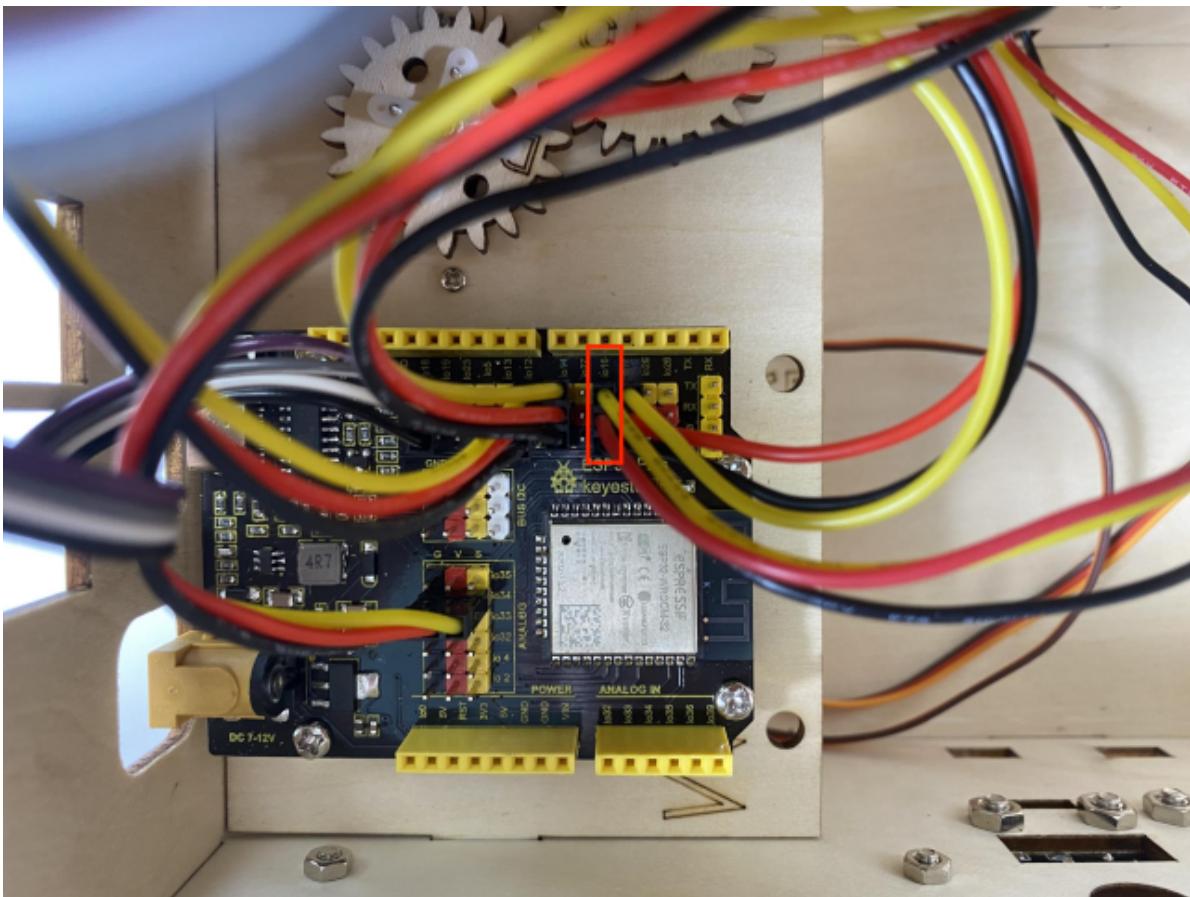


PIR motion sensor to the io14

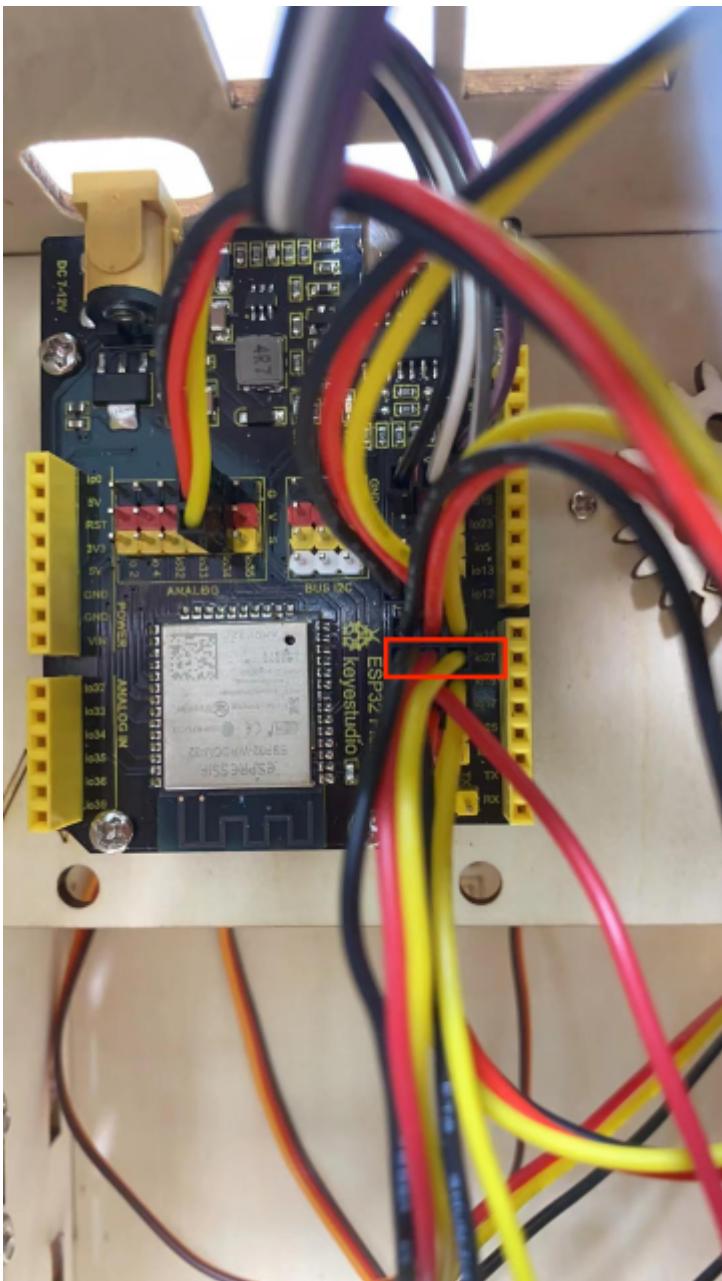




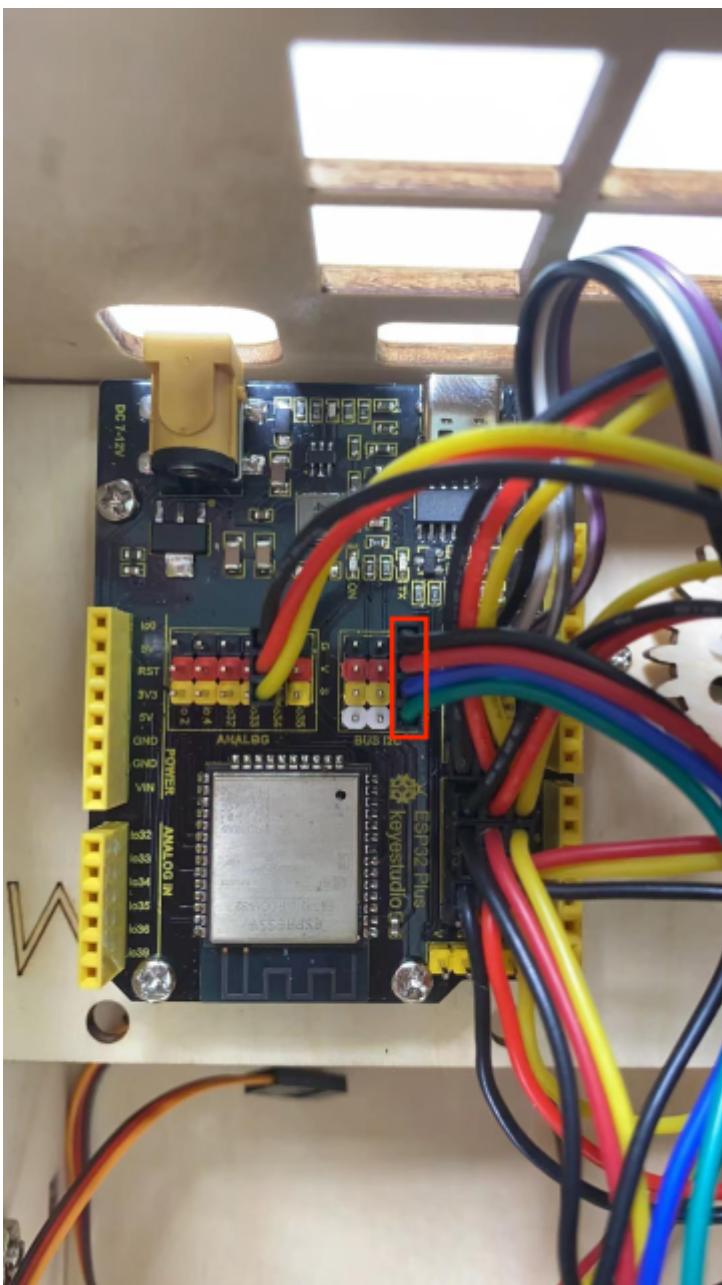
left button module to the io16



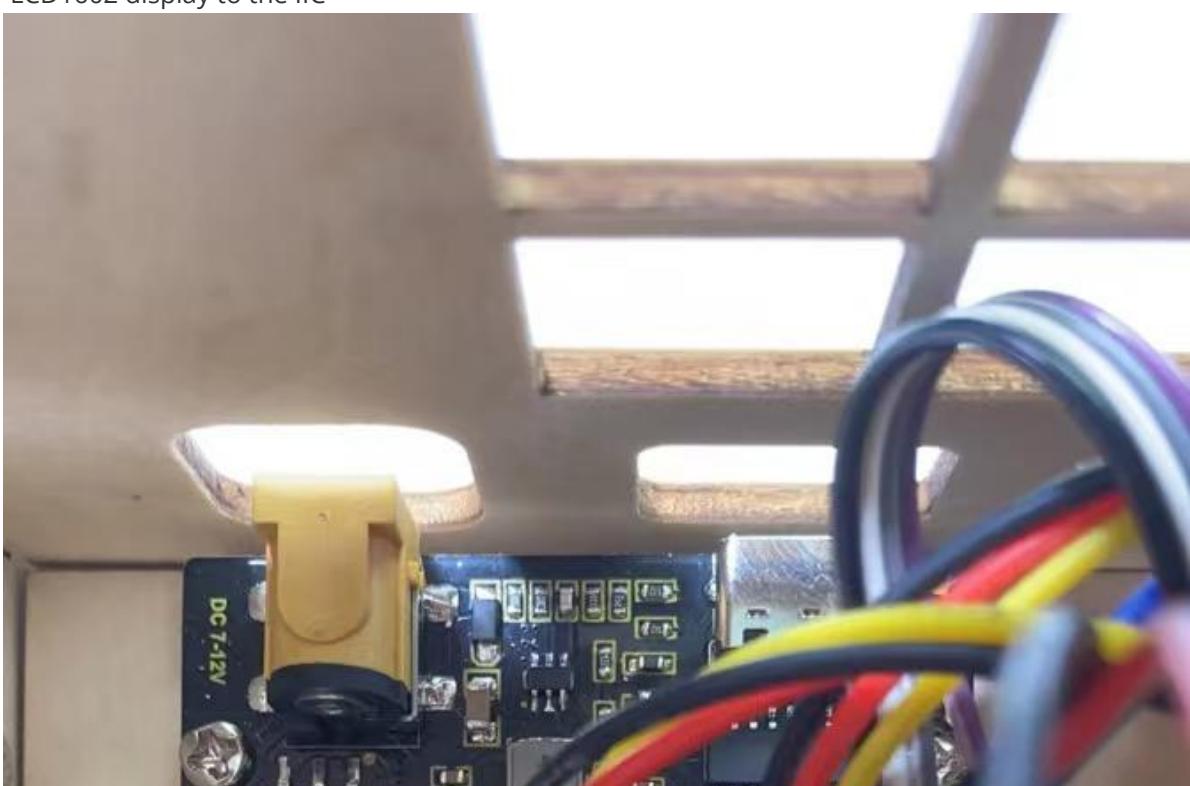
right button module to the io27

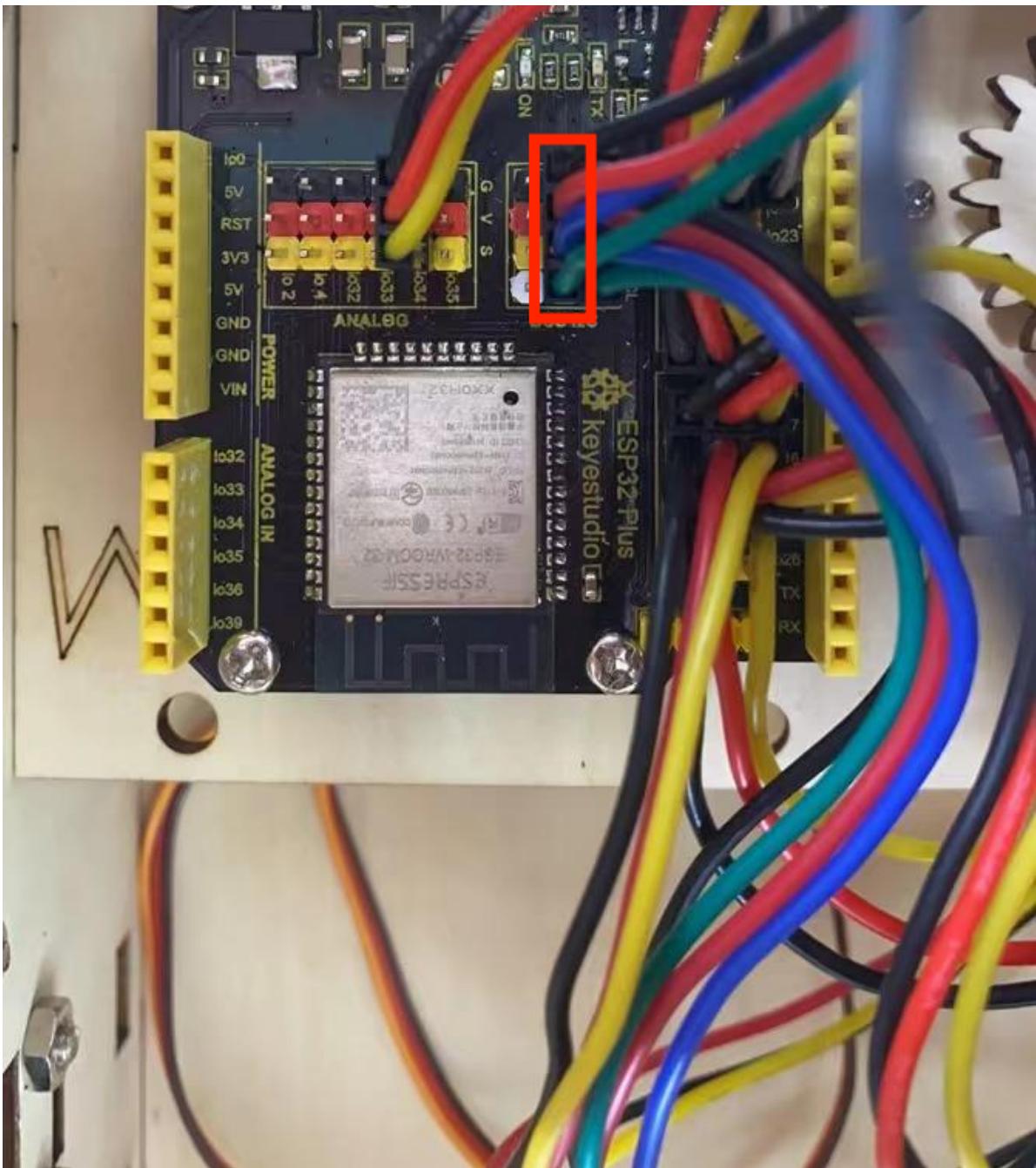


RFID module to the IIC

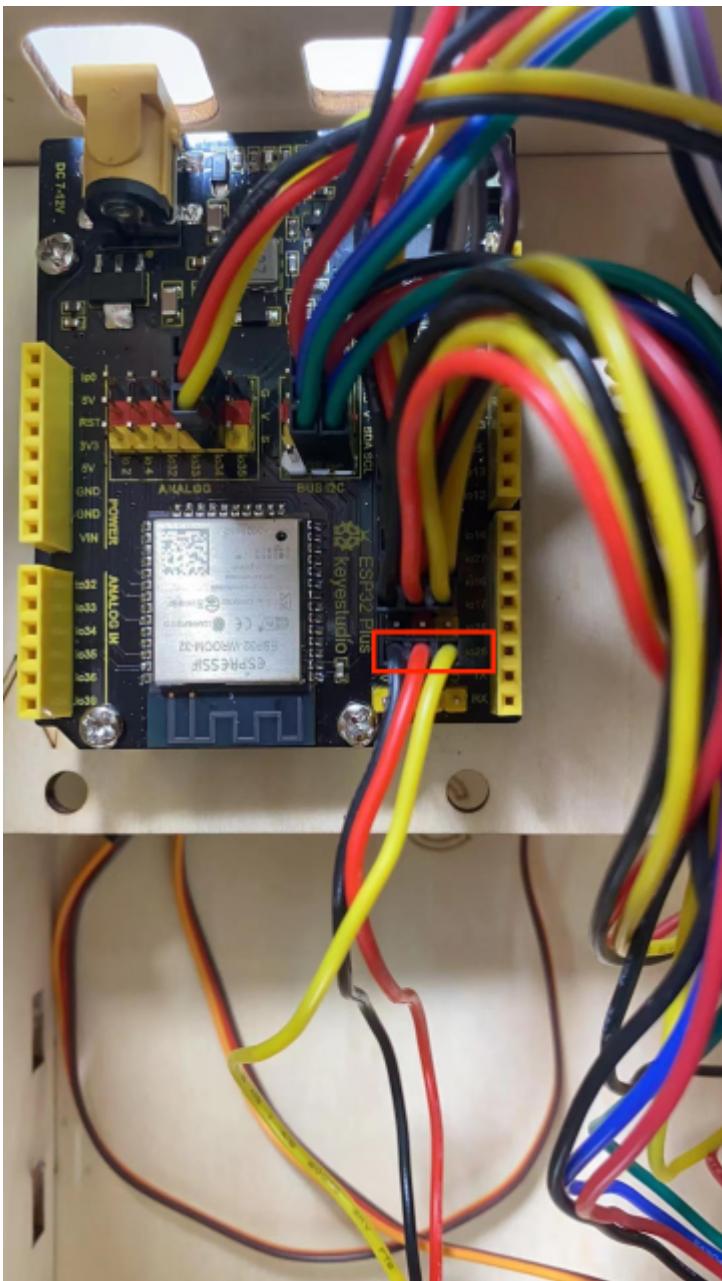


LCD1602 display to the IIC

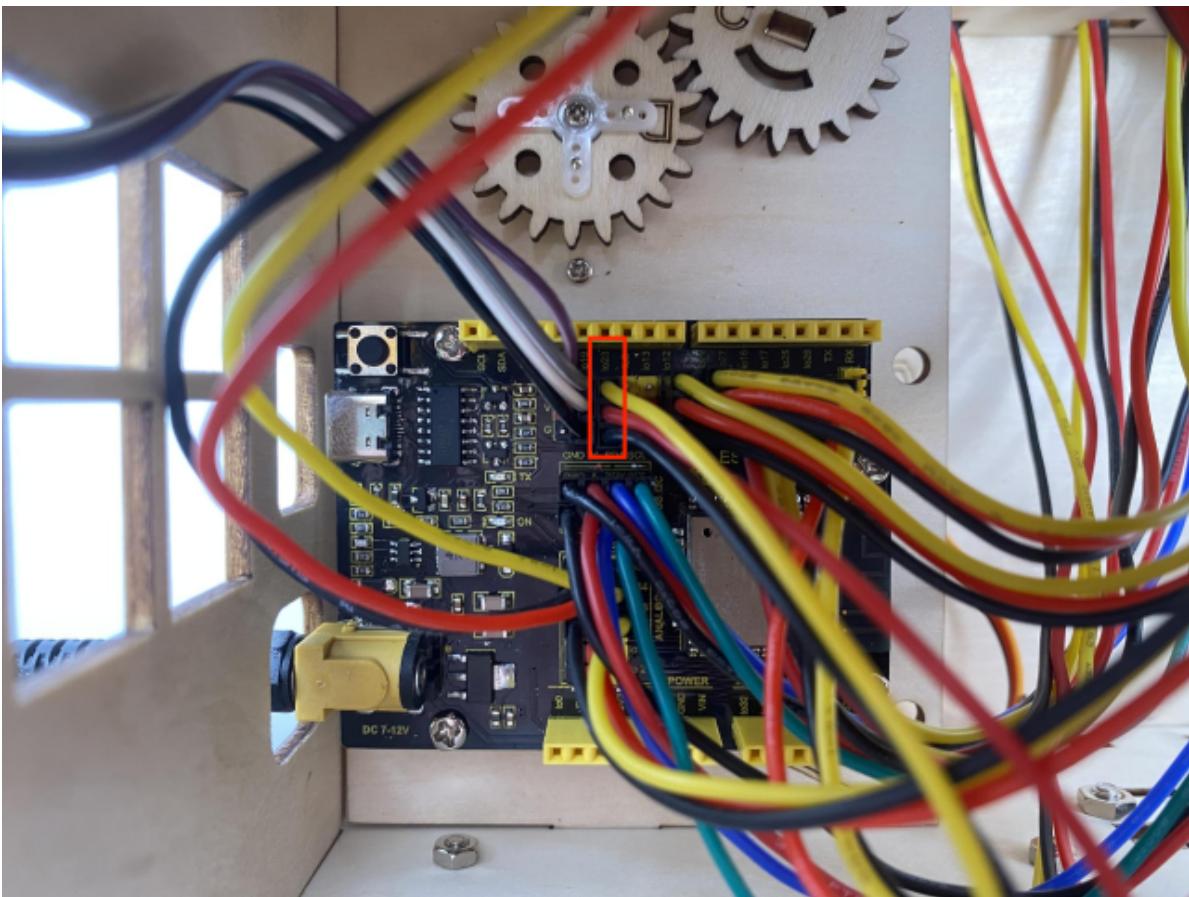




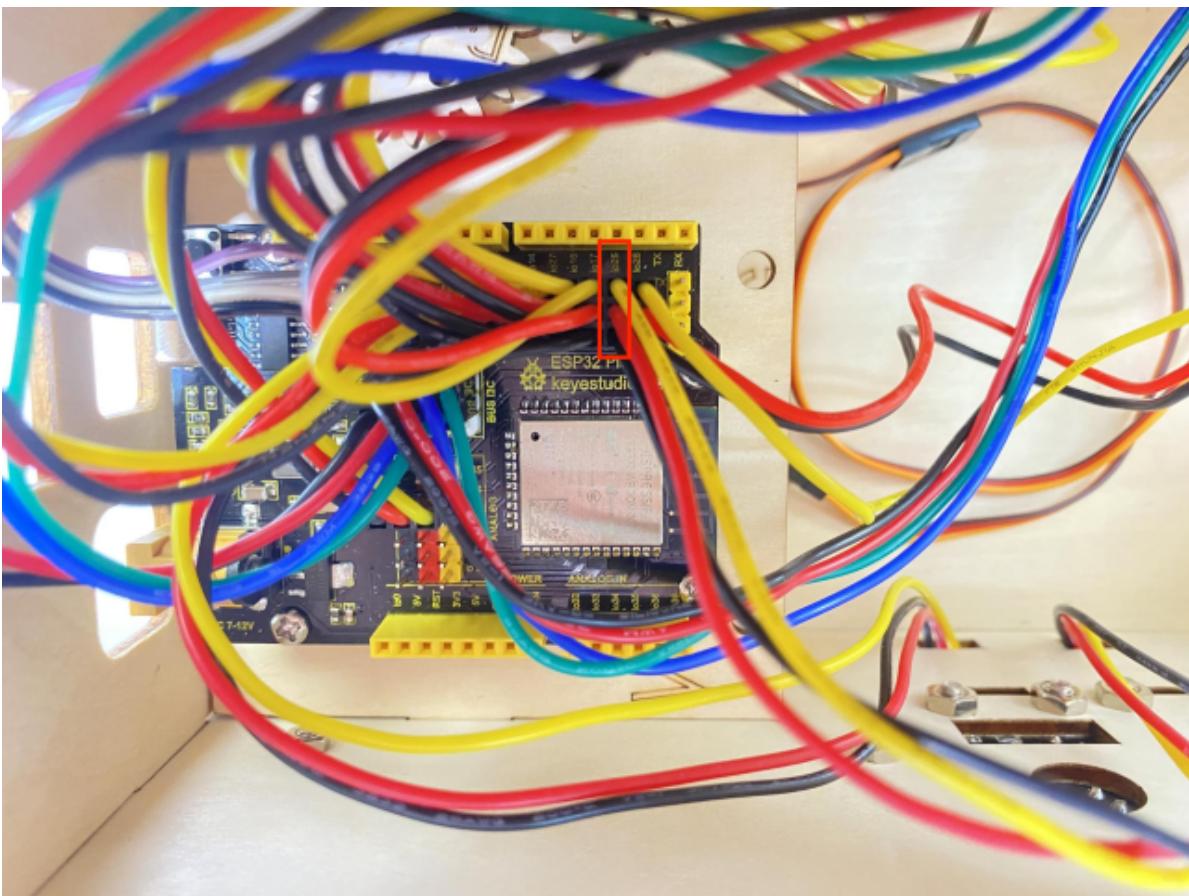
6812RGB LED to the io26



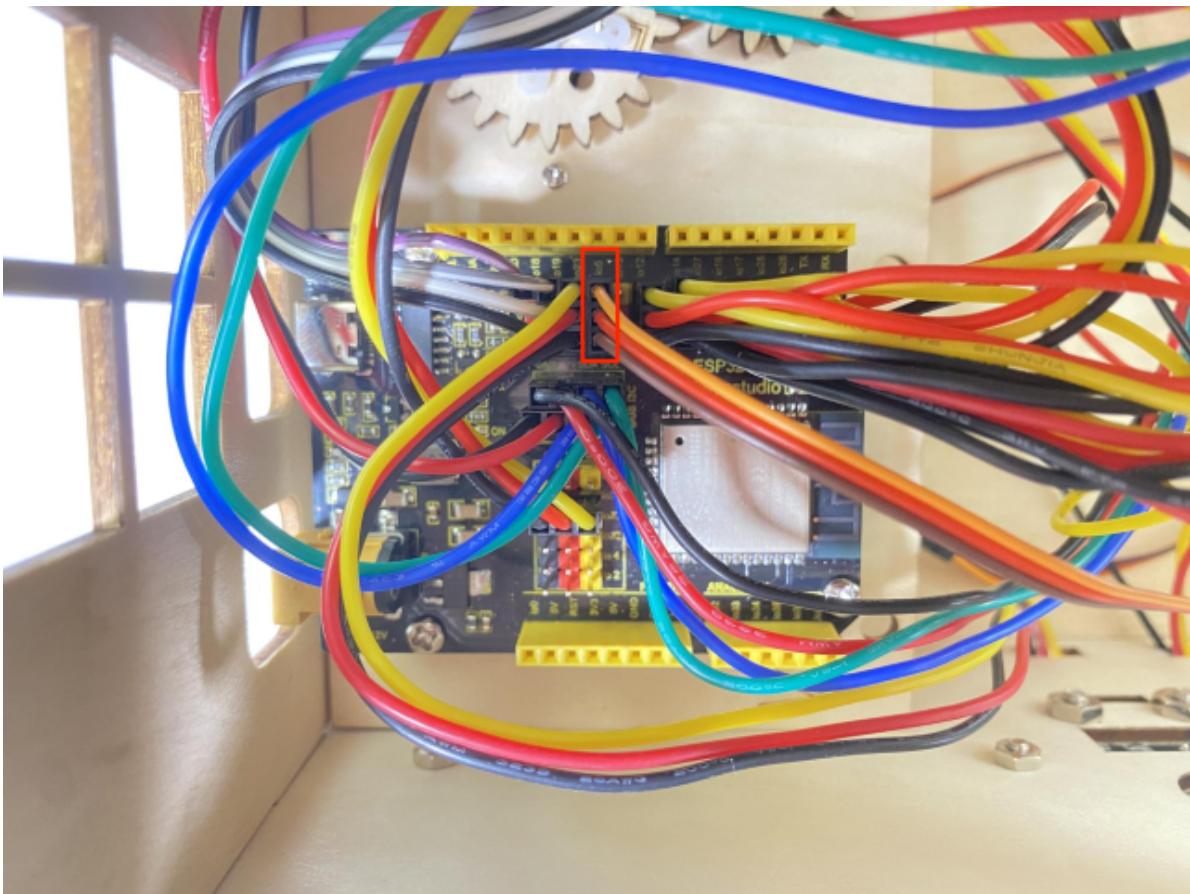
gas sensor to the io23



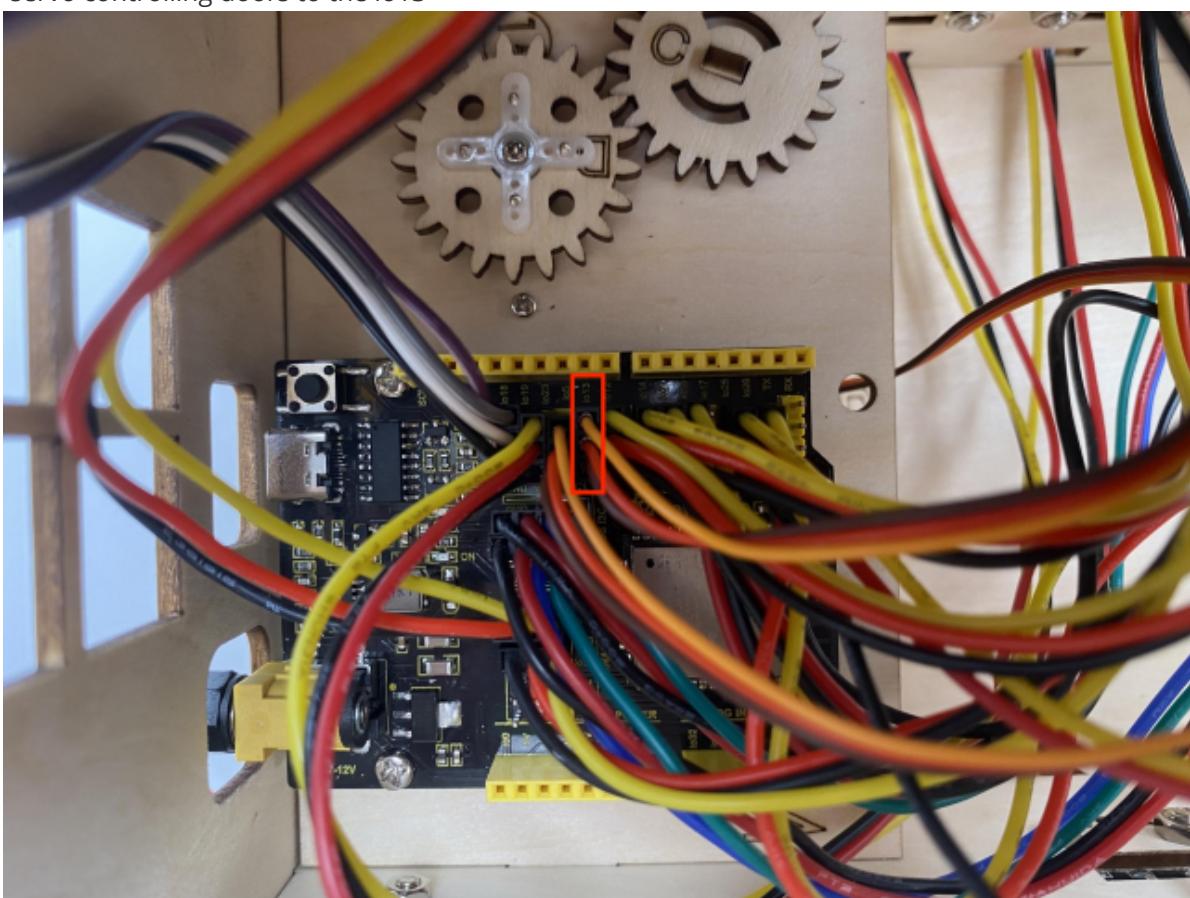
buzzer sensor to the io25



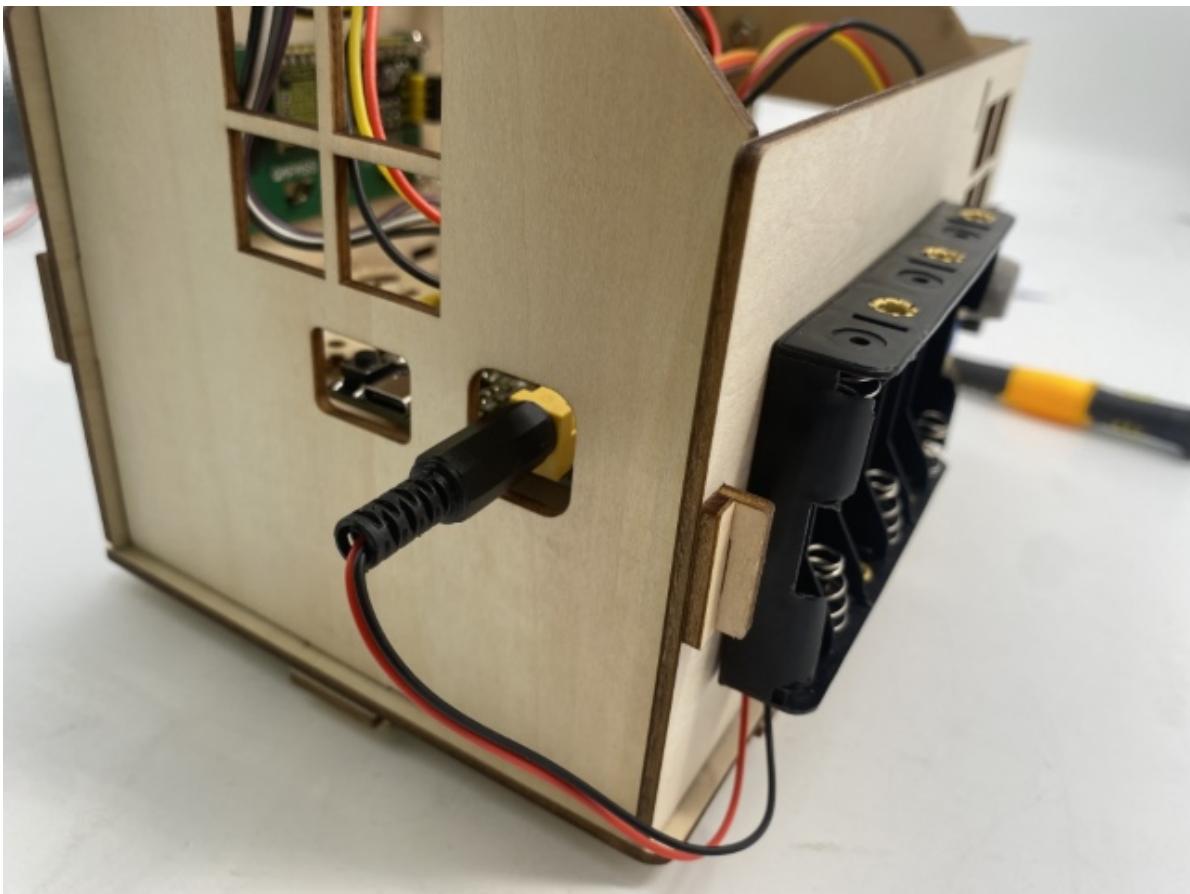
servo controlling windows to io5



servo controlling doors to the io13

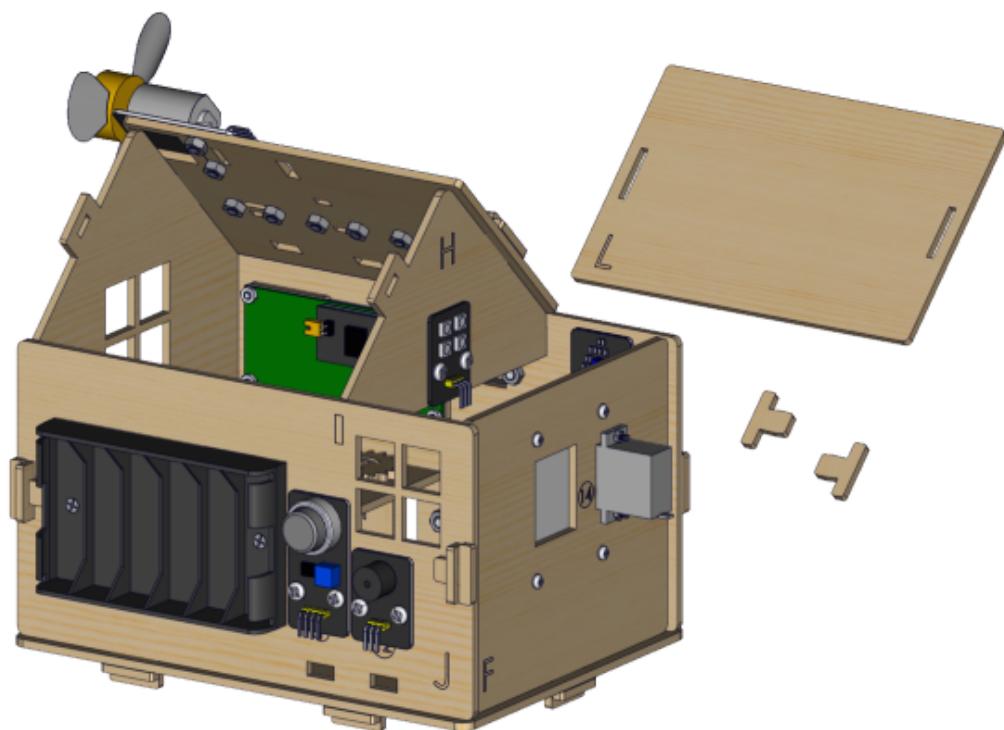


power wiring

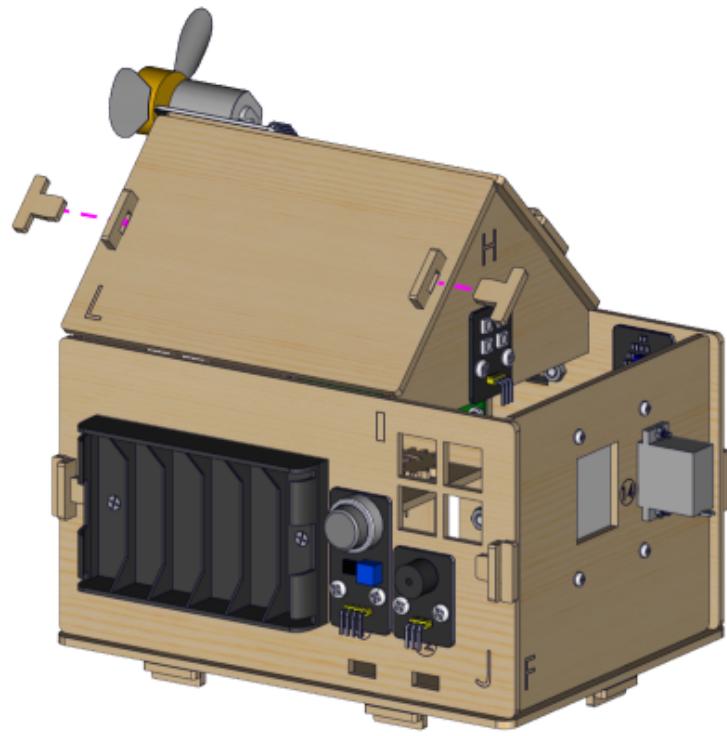


Step 20

Components Required



Installation Diagram



Prototype

