



# BUILD YOUR OWN INSTRUCTION MANUAL

No.7500-K10 / K10E



**PLEASE READ THIS GUIDE THOROUGHLY BEFORE USING ROBOHERO**

The contents are subject to change without prior notice due to product improvement and specification changes.

More information can view the tutorial videos on our TTR official website([www.ttrobotix.com](http://www.ttrobotix.com)) or YouTube channel <https://www.youtube.com/user/ThunderTigerVideo>)



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## INTRODUCTION

ROBOHERO is a 17 axis robot which is controlled with specific mobile APP by WIFI. The basic operating interface includes 6 basic motions and 11 combined motions. It also has voice command mode, servo setting mode, and motion editor mode. This product also allows user to edit ROBOHERO motion by Arduino compiler.

## WARNING

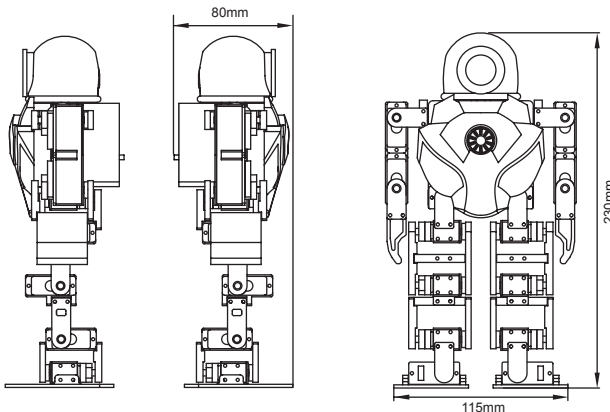
1. Keep the ROBOHERO away from children under 3 years old at all times to prevent injury or damage
2. If the ROBOHERO is operating abnormally, there is an unusual sound, smell or smoke is detected:
  - Turn the ROBOHERO OFF immediately
  - Unplug the ROBOHERO
  - Remove the battery (remove screws on the front chest casing)
  - Ensure the ROBOHERO does not tip over or fall down
3. To prevent the spread of fire, keep candles or other open flames away from the ROBOHERO at all times.

## FEATURES

1. 17 axis can be freely controlled.
2. Through Arduino IDE to take full control of ROBOHERO movements and actions.
3. Control your ROBOHERO by APP interface(iOS & Android) and voice command.
4. Editable movements and actions.
5. Use 270 degrees micro metal gear servo to enhance flexibility and reduce maintenance costs.

## SPECIFICATION

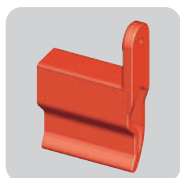
<b>Product Name</b>	ROBOHERO
<b>Dimension</b>	H230 x W80 x D115(mm)
<b>Weight</b>	500g
<b>Servo</b>	Torque: 2.0kgf.cm , Speed: 0.12sec/60°
<b>Battery</b>	7.2V/550mAh Lithium Capacitor Battery
<b>Remote Control</b>	ESP-Wroom-02 WiFi



# CONTENTS INCLUDED



Part A(L)



Part B(R)



Part C



Part C1



Part D



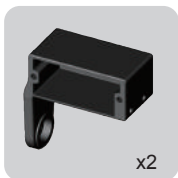
Part D1



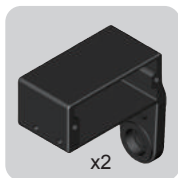
Part E



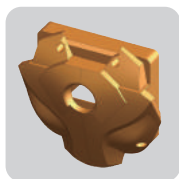
Part E1



Part F(L)



Part G(R)



Part H



Part I



Part J



Part K



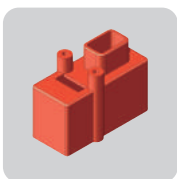
Part L



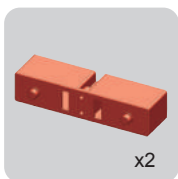
Part M



Part N



Part N1



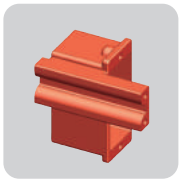
Part O



Part P



Part Q1(L)



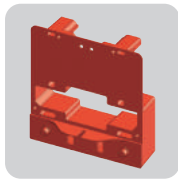
Part Q2(R)



Part R1(L)

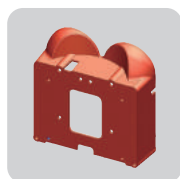


Part R2(R)

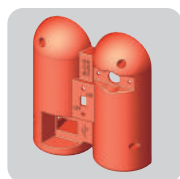


Part S

# CONTENTS INCLUDED



Part T



Part U



x14

Bushing



x17

Collar



x17

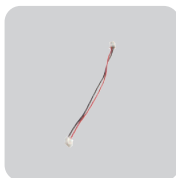
Servo



Charger Jack Wire



Switch Wire



Power Connecting Wire



LED Wire



Battery



Charger



Main Control Board



Power Board



Lampshade Sticker



Mouth sticker



Screw Driver



x2

Cable Clamp



x19

HMF2-5B-1(M2x5L)



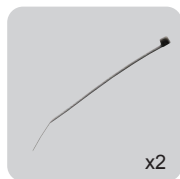
x30

HMJ2-6B(M2x6L)



x68

HMJ2-8B(M2x8L)



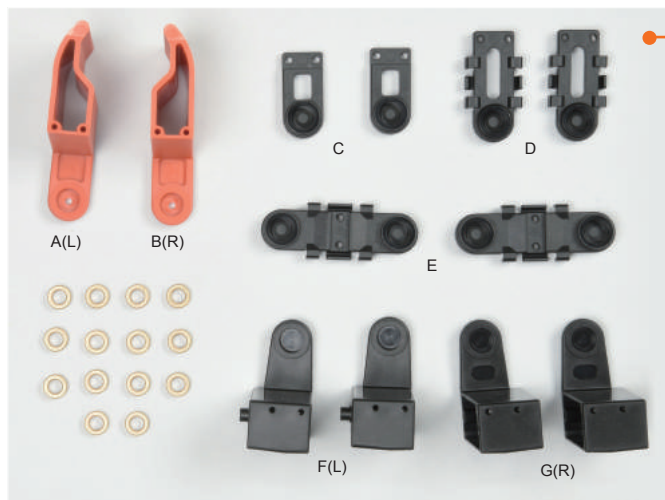
x2

Cable Tie



x2

Spiral Wrappind Band

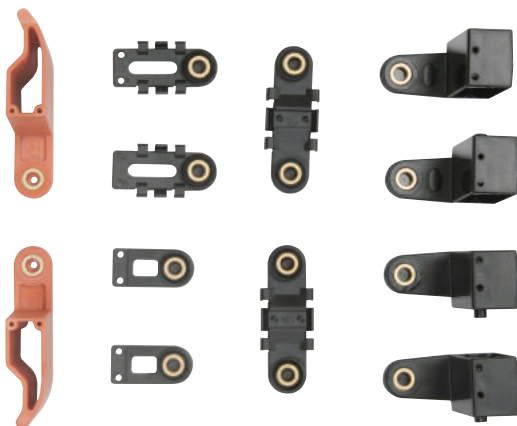


### Parts List

Bushing x 14Pcs  
 Part A x 1Pcs(L)  
 Part B x 1Pcs(R)  
 Part C x 2Pcs  
 Part D x 2Pcs  
 Part E x 2Pcs  
 Part F x 2Pcs(L)  
 Part G x 2Pcs(R)

### Assembly Method

According to the figure, press 14 pieces of bushings into the Parts



### Note

Please make sure that the bushing is pressed even so that no jut out on the appearance.



# 2

## Front lampshade assembly



### Parts List

Part H x 1Pcs

Part I x 1Pcs

Lampshade Sticker x 1Pcs

### Assembly Method

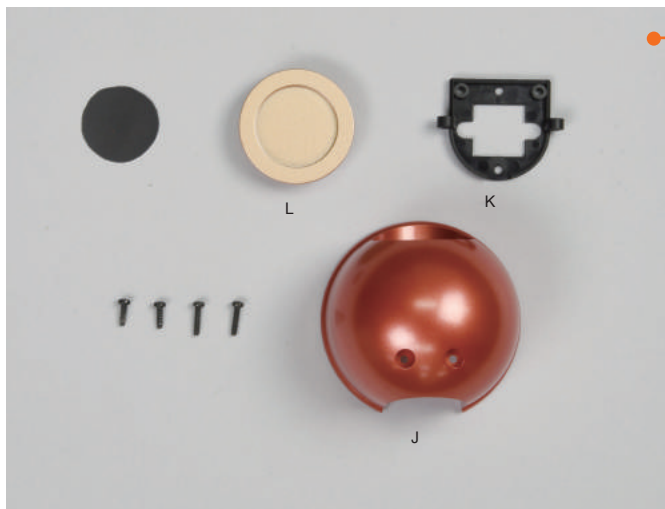
According to the figure, press Part I into Part H and stick lampshade sticker on Part I



### Note

Please make sure that Part I is pressed in. You can add some glue in the juncture to prevent falling off.





### Parts List

Part J x 1Pcs  
 Part K x 1Pcs  
 Part L x 1Pcs  
 Mouth Sticker x 1Pcs  
 HMJ2-6B x 2Pcs  
 HMJ2-8B x 2Pcs

### Assembly Method

1. According to the figure, use HMJ2-8B to lock Part K into Part J



3. Stick mouth sticker on Part L



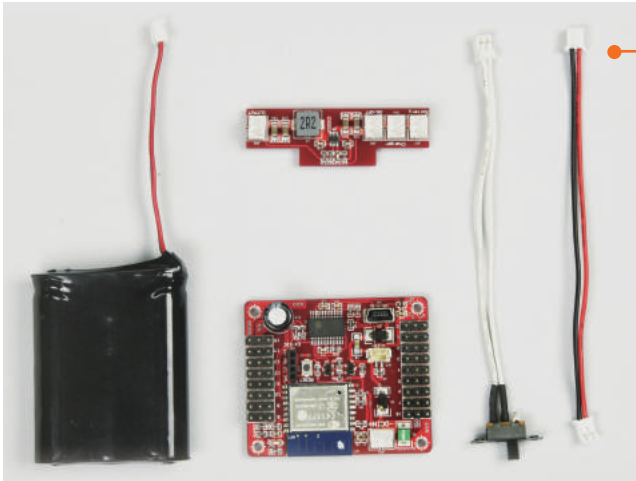
2. Then use HMJ2-6B to lock Part L into Part K according to the figure





# 4.1

## Servo assembly- environment setting

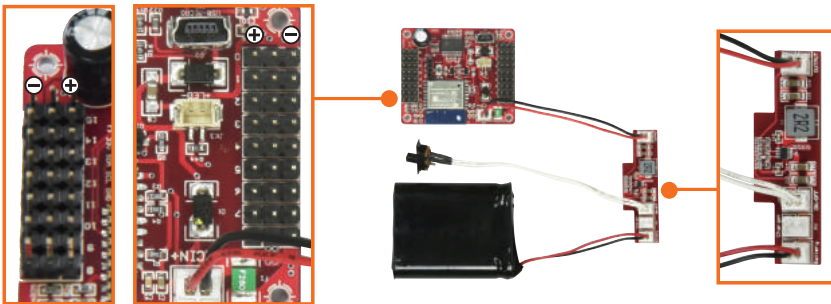


### Parts List

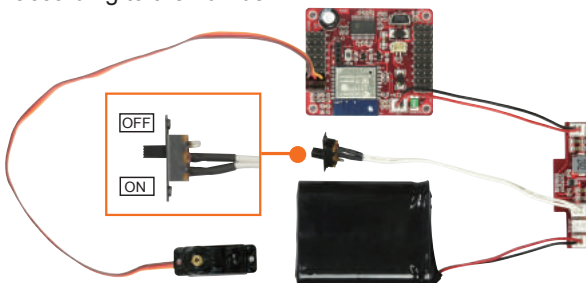
- Battery x 1Pcs
- Main Control Board x 1Pcs
- Power Board x 1Pcs
- Power Connecting wire x 1Pcs
- Switch Wire x 1Pcs

### Assembly Method

1. Respectively connect battery and switch wire to the power board and use power connecting wire to connect main control board and power board



2. Insert the servo needed setting into the corresponding position in the main control board according to the number



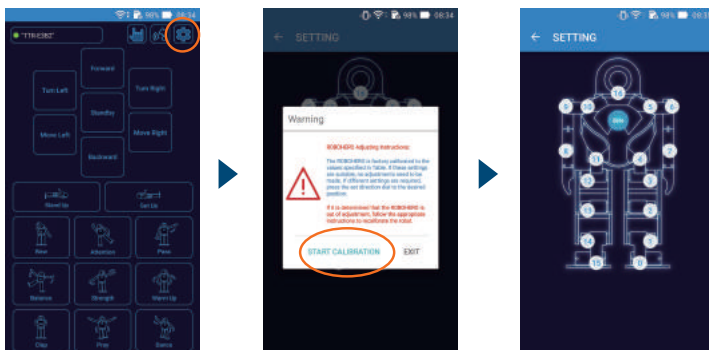
# 4.1

## Servo assembly- environment setting

3. After turning on the power, download exclusive APP and after connecting WIFI and start the APP to operate servo setting function

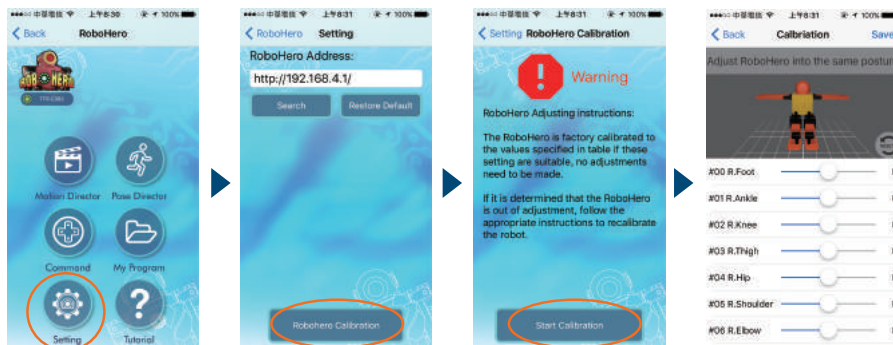
### 4. ANDROID:

Click Start Calibration, servo will automatically lock in the neutral point. At this time you can start assembling the collar and connecting base of servo



### iOS:

Click Start Calibration, servo will automatically lock in the neutral point. At this time you can start assembling the collar and connecting base of servo

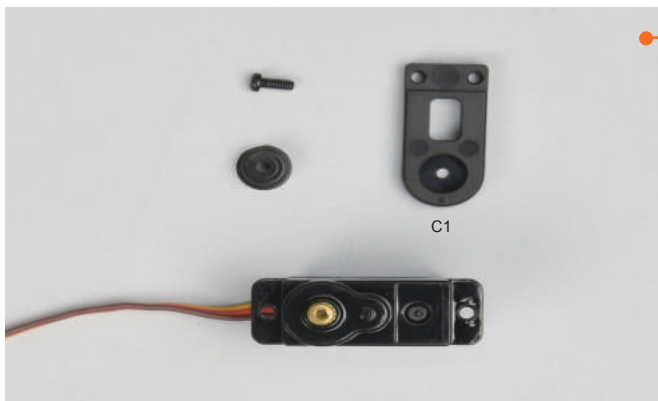


## Note

1. Please pay attention to the position of switch in case of putting the main control board and power board in the place easy to cause short circuit or inflammable when turning on the power
2. Pay attention to the direction when connecting the wire of servo and main control board (black wire/negative terminal are all toward the outside of main control board )

## 4.2

## Servo assembly- collar and connecting base

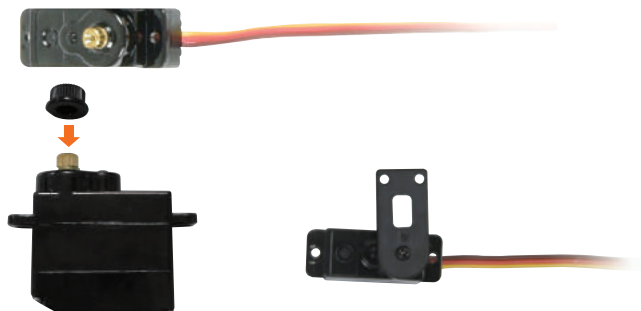


### Parts List

Servo x 1Pcs  
Collar x 1Pcs  
HMF2-5B-1 x 1Pcs  
Part C1 x 1Pcs

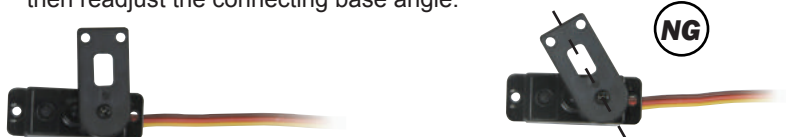
### Assembly Method

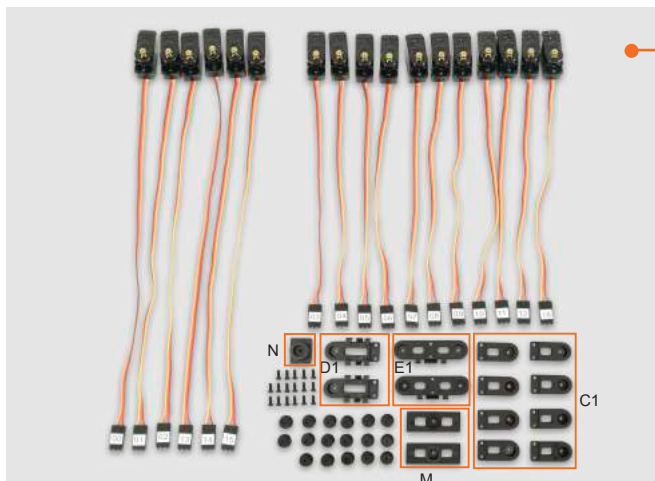
1. Follow environment setting steps, use APP servo setting function to lock servo needed setting
2. Press collar into the servo gear
3. Follow the servo's connecting base angle setting, press the Part C1 with correct angle into the collar and use HMF2-5B-1 to lock in



### Note

1. Different servos have different connecting base angle setting. Please do not mix them together
2. If the connecting base can not be adjusted to the required angle (90° or 180°), you can take out the collar and rotate it to change its position before placing the servo gear, and then readjust the connecting base angle.



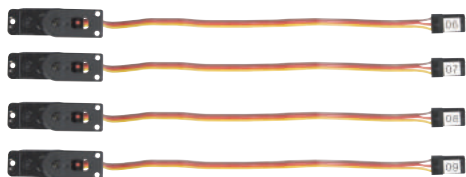


### Parts List

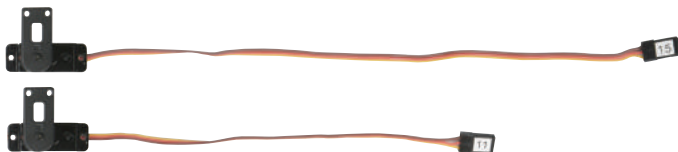
Servo x 17Pcs  
 Collar x 17Pcs  
 HMF2-5B-1 x 17Pcs  
 Part C1 x 8Pcs  
 Part D1 x 2Pcs  
 Part M x 2Pcs  
 Part E1 x 2Pcs  
 Part N x 1Pcs

### Assembly Method

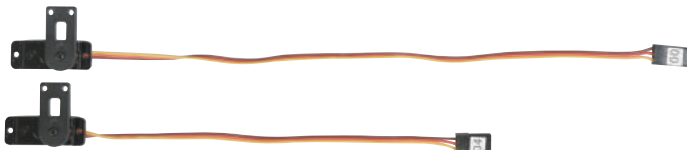
1. Follow the collar and connecting base steps, respectively complete the setting and assembly of the 17 servos
2. servo No.#6,#7,#8,#9's connecting base angle ( $180^\circ$ ) setting is shown as below



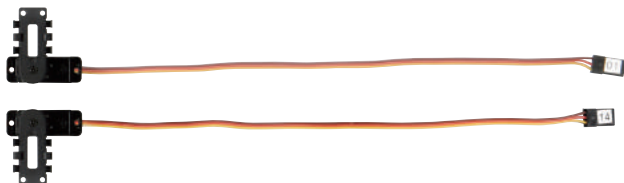
3. servo No. #11,#15's connecting base angle ( $90^\circ$ ) setting is shown as below



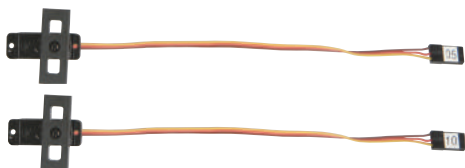
4. servo No. #0,#4 's connecting base angle ( $90^\circ$ ) setting is shown as below



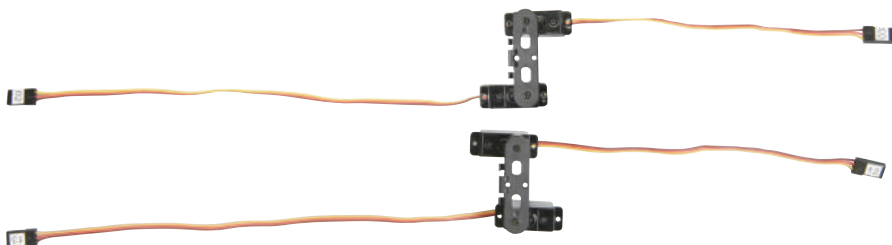
5. servo No. #1,#14 's connecting base angle (90°) setting is shown as below



6. servo No. #5,#10's connecting base angle (90°) setting is shown as below



7. servo No. #2,#3,#12,#13 's connecting base angle (90°) setting is shown as below

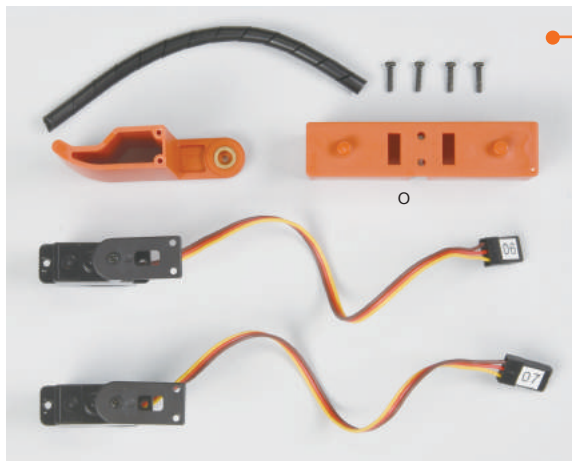


8. servo No. #16 's connecting base angle (180°) setting is shown as below



### Note

1. Different servos have different connecting base angle setting. Please do not mix them together
2. During assembling, please make sure to follow the figures. Pay attention to the servo number and direction of part
3. Servo's wire has two types of length (15CM & 22CM), the length of No.#0,#1,#2,#13,#14,#15 is 22CM, the length of other 11 pieces is 15CM

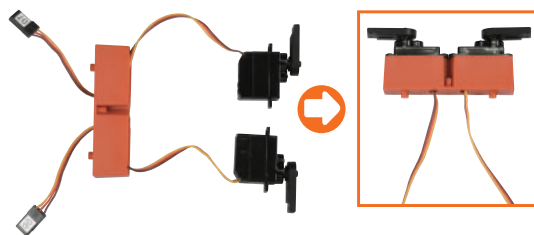


### Parts List

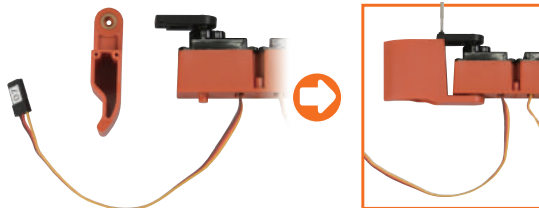
Servo Set x 4Pcs(#6,#7,#8,#9)  
 Part A set x 1Pcs(L)  
 Part B set x 1Pcs(R)  
 Part O x 2Pcs  
 HMJ2-8B x 12Pcs  
 Spiral Wrapping Band x 2Pcs

### Assembly Method

1. According to the figure, install servo set(#6,#7) into Part O and use HMJ2-8B to lock in



2. According to the figure, install Part A set (L) into servo set #7 side and use HMJ2-8B to lock in



3. According to the figure, set in the spiral wrapping band to complete the left hand assembly



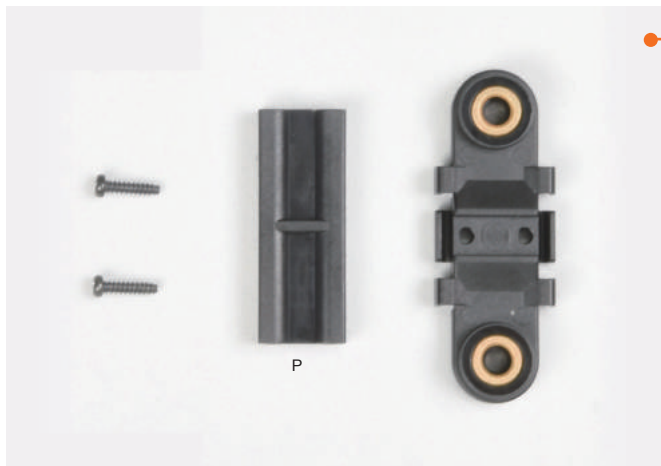
4. The right hand assembly is based on the same procedure (install Part B set into servo set #8 side)

### Note

During assembling, please make sure to follow the figures. Pay attention to the servo number and direction of part

## 6.1

### Leg assembly- joint connecting base- upper



#### Parts List

Part P x 2Pcs

Part E set x 2Pcs

HMJ2-8B x 4Pcs

#### Assembly Method

1. According to the figure, connect Part P with Part E set and use HMJ2-8B to lock in



2. Follow the same procedure to complete another set of joint connecting base- upper assembly

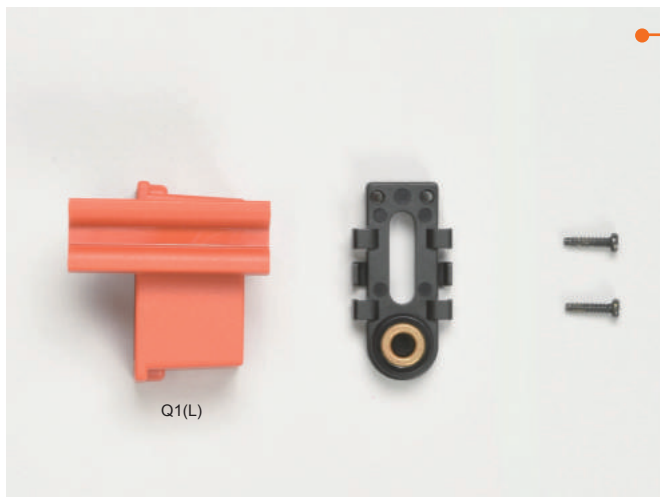
#### Note

During assembling, please make sure to follow the figures



## 6.2

### Leg assembly- joint connecting base- lower

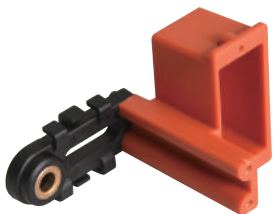


#### Parts List

Part Q1 x 1Pcs(L)  
Part Q2 x 1Pcs(R)  
Part D set x 2Pcs  
HMJ2-8B x 4Pcs

#### Assembly Method

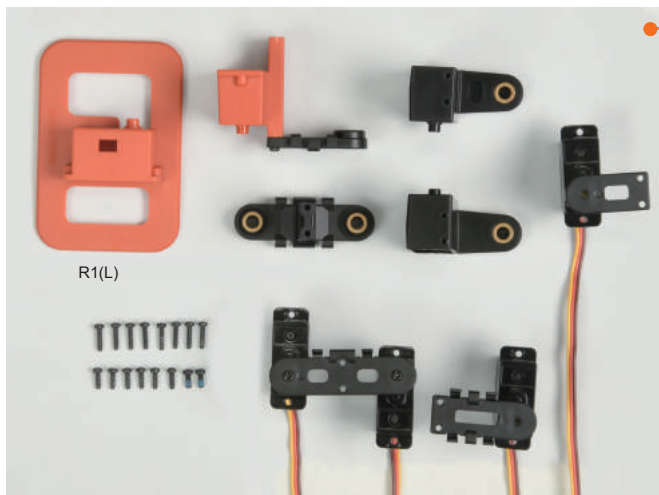
1. According to the figure, connect Part Q1(L) with Part D set and use HMJ2-8B to lock in to complete the joint connecting base-lower (L)



2. Follow the same procedure to complete another set of joint connecting base- lower(R) assembly

#### Note

During assembling, please make sure to follow the figures. Pay attention to the direction of part



### Parts List

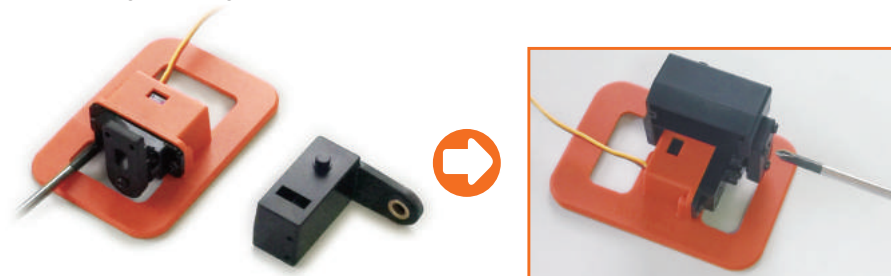
Servo Set x 8Pcs(#0,#1,#2,  
#3,#12,#13,#14,#15)  
Joint Connecting Base  
-Upper x 2Pcs  
Joint Connecting Base  
-Lower x 2Pcs(L,R)  
Part F set x 2Pcs(L)  
Part G set x 2Pcs(R)  
Part R1 x 1Pcs(L)  
Part R2 x 1Pcs(R)  
HMJ2-8B x 16Pcs  
HMJ2-6B x 12Pcs

### Assembly Method

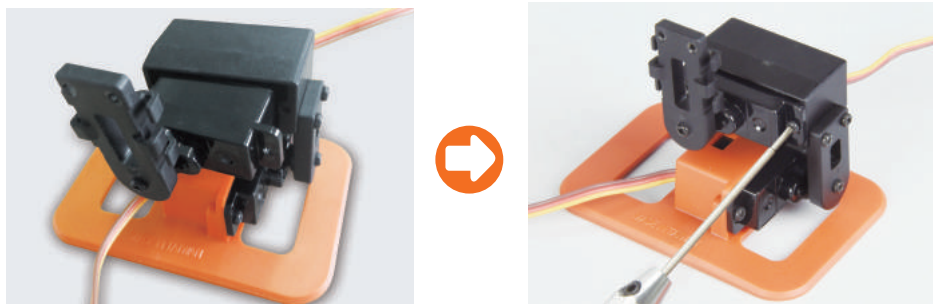
1. According to the figure, install servo set (#0) into Part R1(L) and use HMJ2-6B to lock in



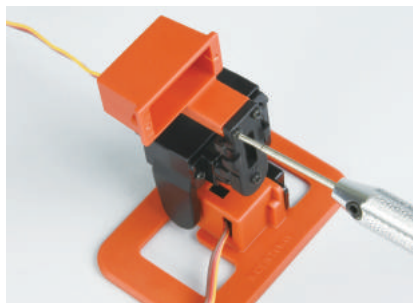
2. According to the figure, install Part F set(L) and use HMJ2-6B to lock in



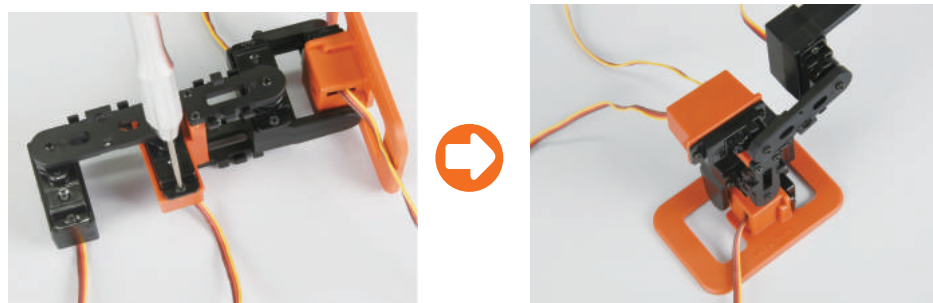
3. According to the figure, install servo set (#1) and use HMJ2-8B to lock in



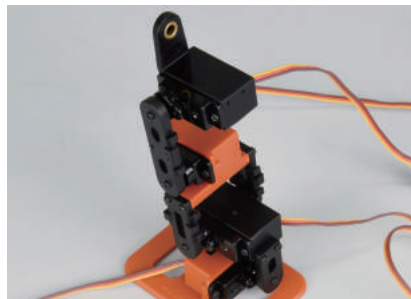
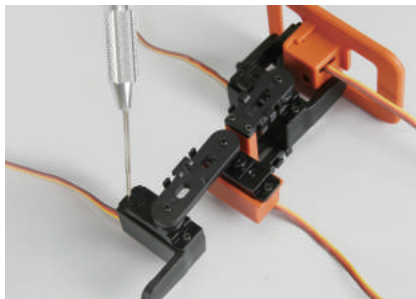
4. According to the figure, install joint connecting base – lower (L) and use HMJ2-8B to lock in



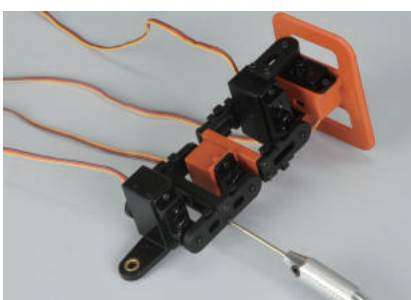
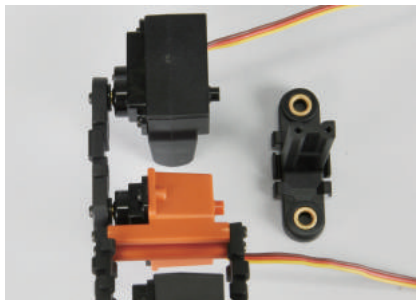
5. According to the figure, install servo set (#2,#3) and use HMJ2-6B to lock in



6. According to the figure, install Part G set(R) and use HMJ2-8B to lock in



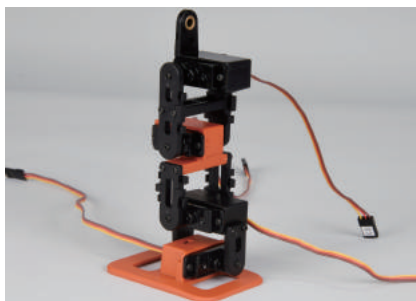
7. According to the figure, install joint connecting base- upper and use HMJ2-8B to lock in to complete the left leg assembly



8. Follow the same procedure to complete the right leg assembly

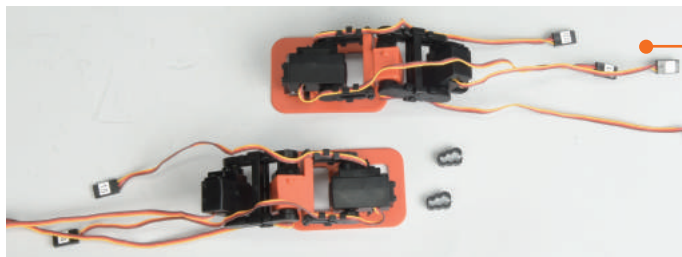
### Note

During assembling, please make sure to follow the figures. Pay attention to the servo number and direction of part



## 6.4

## Leg assembly-arrange wires

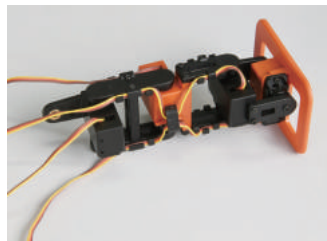
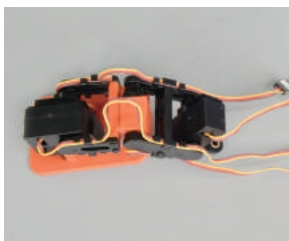


### Parts List

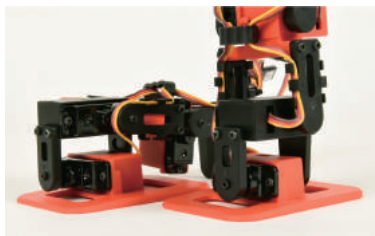
Left Leg Set x 1Pcs  
Right Leg Set x 1Pcs  
Cable Clamp x 2Pcs

### Assembly Method

1. According to the figure, adjust all servos of the left leg to their maximum angle, level the wire and reserve enough moving space before installing the cable clamp

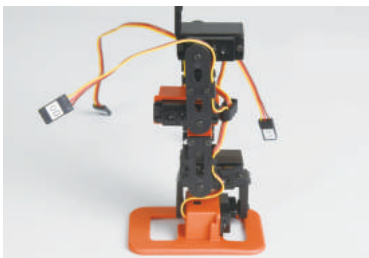
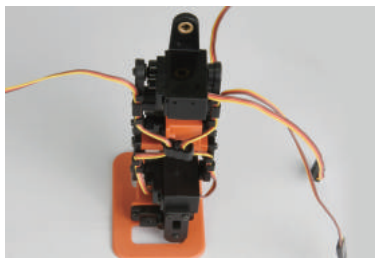


2. Follow the same procedure to complete the right leg assembly



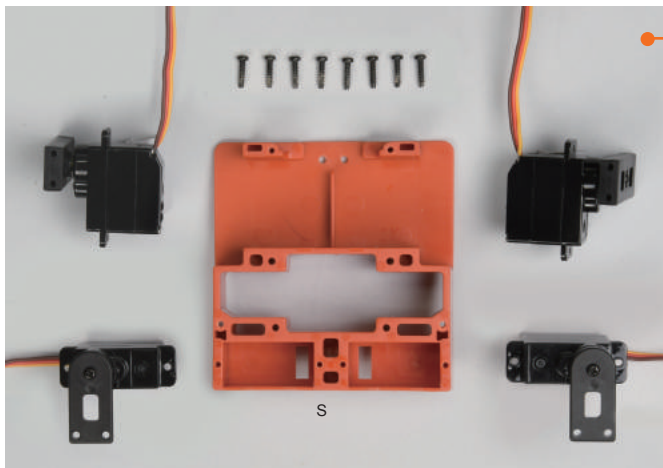
### Note

During assembling, please make sure to follow the figures. Pay attention to the direction of part



## 7.1

### Body assembly- four limbs servo



#### Parts List

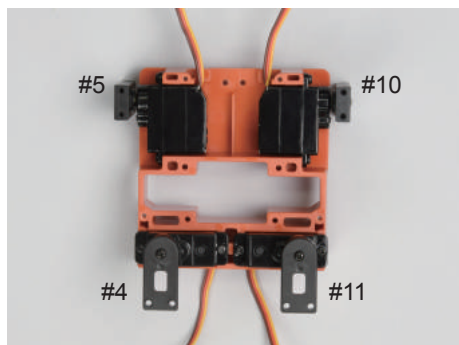
Servo Set x 4Pcs  
(#4,#5,#10,#11)

Part S x 1Pcs

HMJ2-8B x 8Pcs

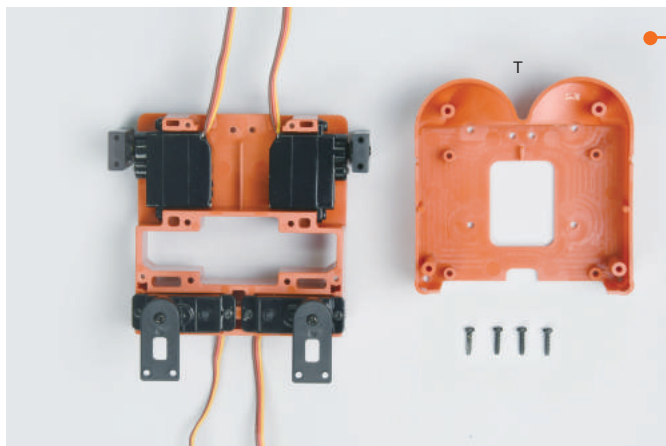
#### Assembly Method

According to the figure, install servo set into Part S and use HMJ2-8B to lock in



#### Note

During assembling, please make sure to follow the figures. Pay attention to the servo number and direction of part



### Parts List

Part T x 1Pcs

HMJ2-8B x 4Pcs

### Assembly Method

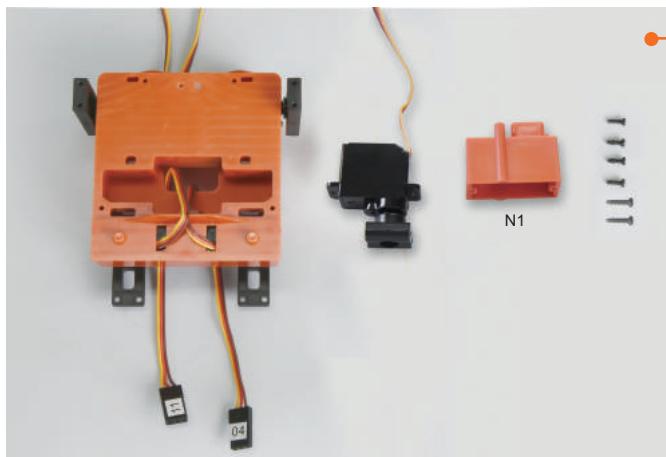
According to the figure, install servo wire into Part T and use HMJ2-8B to lock in



### Note

1. During assembling, please make sure to follow the figures. Pay attention to the servo number and direction of part
2. Please make sure to arrange servo wire according to the figure





### Parts List

Servo Set x 1Pcs(#16)

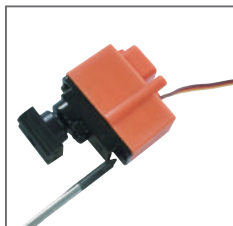
Part N1 x 1Pcs

HMJ2-6B x 4Pcs

HMJ2-8B x 2Pcs

### Assembly Method

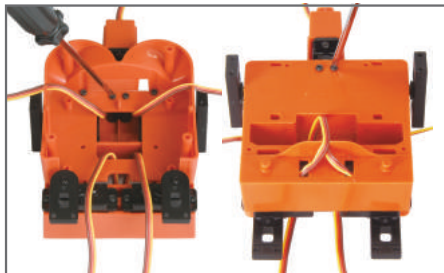
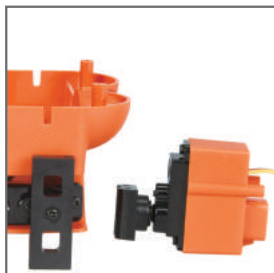
1. According to the figure, install servo set into Part N1 and use HMJ2-8B to lock in



3. According to the figure, put the servo wire through



2. According to the figure, install Part N1 set and use HMJ2-6B to lock in

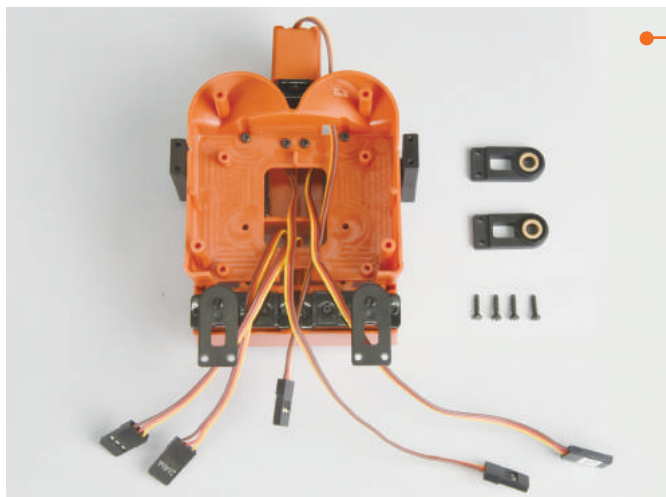


### Note

During assembling, please make sure to follow the figures. Pay attention to the direction of part

## 7.4

## Body assembly- joint connecting base



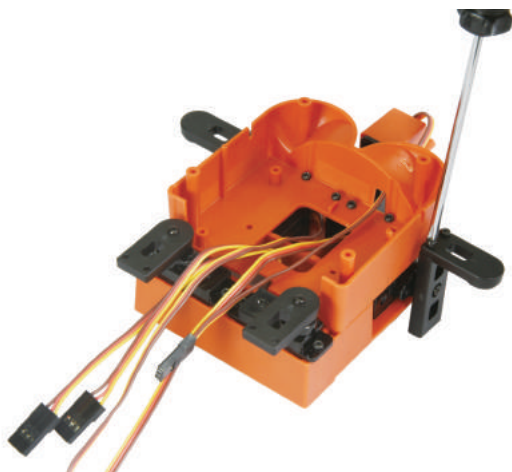
### Parts List

Part C Set x 2Pcs

HMJ2-8B x 4Pcs

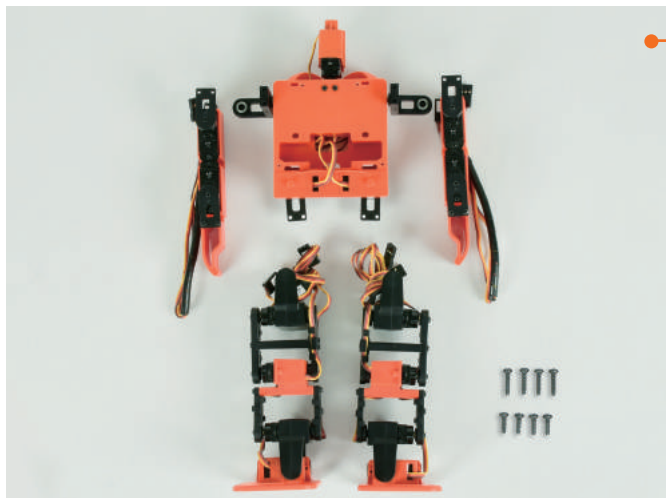
### Assembly Method

According to the figure, install Part C set and use HMJ2-8B to lock in



### Note

During assembling, please make sure to follow the figures. Pay attention to the direction of part

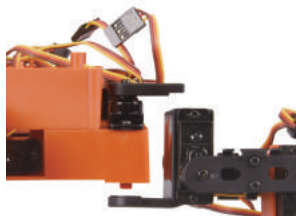


### Parts List

Body Set x 1Pcs  
 Left Hand Set x 1Pcs  
 Right Hand Set x 1Pcs  
 Left Leg Set x 1Pcs  
 Right Leg Set x 1Pcs  
 HMJ2-6B x 4Pcs  
 HMJ2-8B x 4Pcs

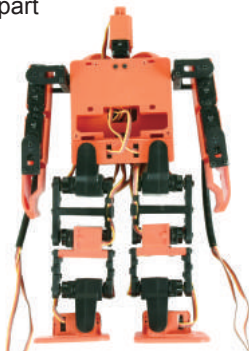
### Assembly Method

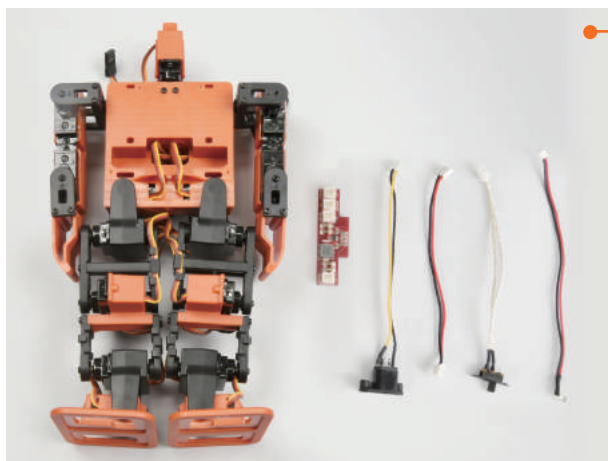
1. According to the figure, install left/right hand set and use HMJ2-8B to lock in
2. According to the figure, install left/right leg set and use HMJ2-6B to lock in



### Note

During assembling, please make sure to follow the figures. Pay attention to the direction of part



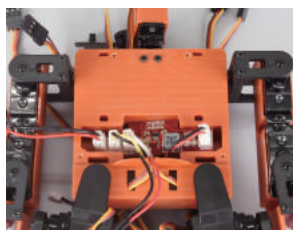
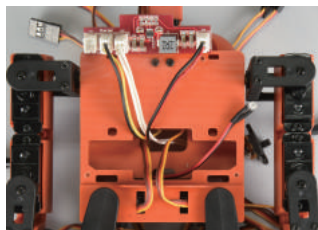
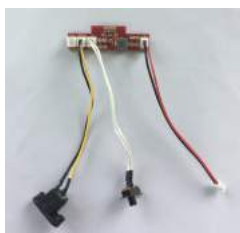


### Parts List

Power Board x 1Pcs  
 Power Connecting Wire x 1Pcs  
 Switch Wire x 1Pcs  
 Charger Jack Wire x 1Pcs  
 LED Wire x 1Pcs

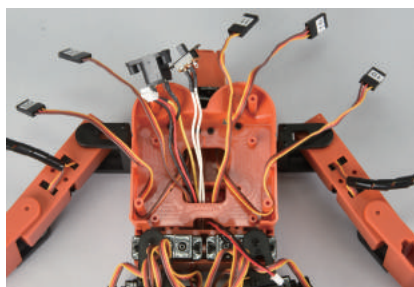
### Assembly Method

1. According to the figure, connect one terminal of the power connecting wire, switch wire and charger jack wire with power board and put the other terminal through the upper hole of the body to the back
2. According to the figure, put the socket terminal of the LED wire through the lower hole of the body to the back and place the power board into the groove



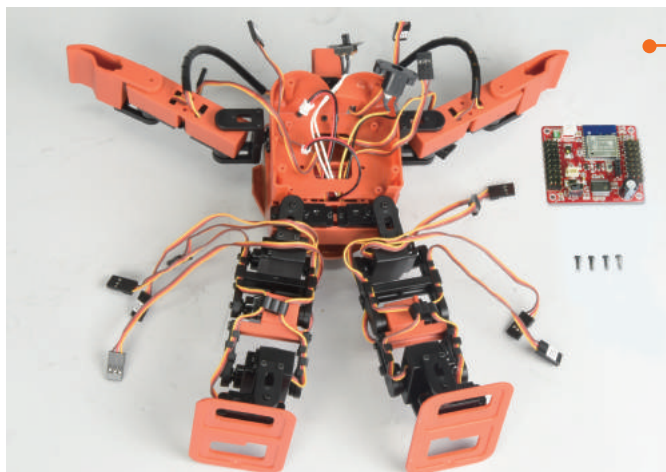
### Note

Please arrange the wire according to the figure for the convenience of subsequent assembly



## 10.1

# Main control board assembly



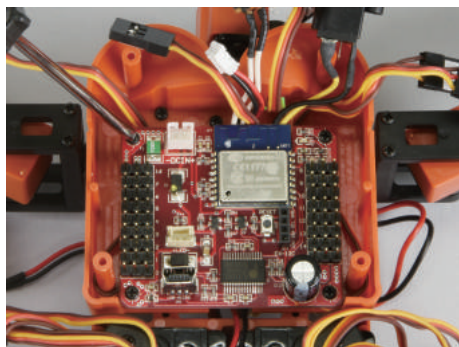
### Parts List

Main Control Board x 1Pcs

HMJ2-6B x 4Pcs

### Assembly Method

According to the figure, put the power connecting wire, switch wire, charger jack wire, LED wire and left/right hand servo wire (#6,#7,#8,#9) to their fixed positions and then install the main control board and use HMJ2-6B to lock in

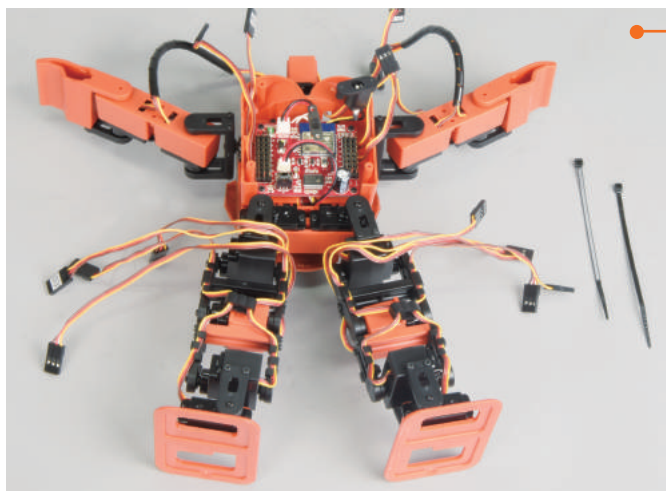


### Note

Before installing the main control board, please pull out the wire according to the figure for the convenience of subsequent assembly

## 10.2

## Main control board connection / Arrange wires

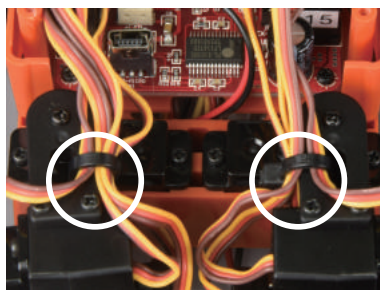
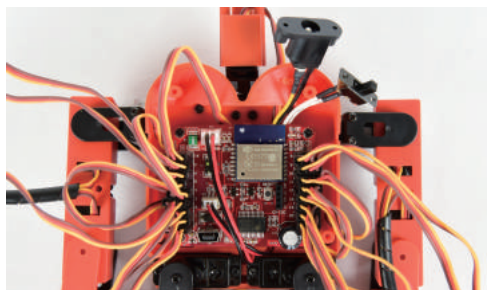


### Parts List

Cable Tie x 2Pcs

### Assembly Method

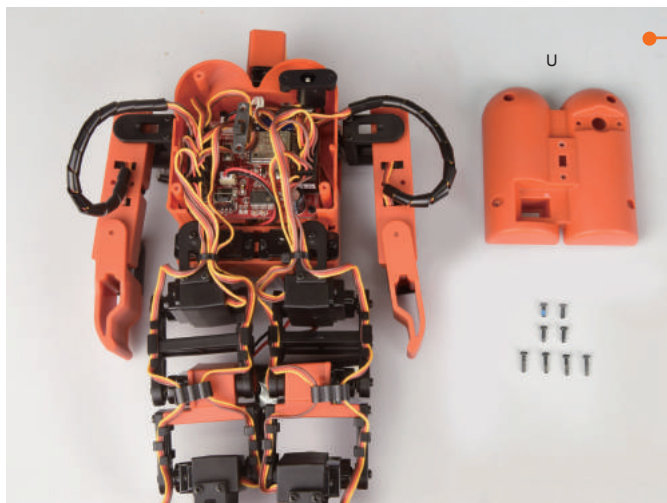
1. According to the figure, insert the power connecting wire, switch wire, charger jack wire, LED wire and 17 sets of servo wire into their corresponding positions in the main control board
2. Arrange the wire of main control board according to the figure and reserve enough space for left/right leg servo wire (#0,#1,#2,#3,#12,#13,#14,#15) and then put them to fixed positions, use cable tie to fix them



### Note

1. Please pay attention to the direction when connecting the servo wire with the main control board (black wire/negative terminal are all towards the outside of the main control board)
2. Please make sure that the servos are inserted into the corresponding positions in the main control board according to the number
3. Please reserve enough wire length in case of the servo being interfered by the wire when moving



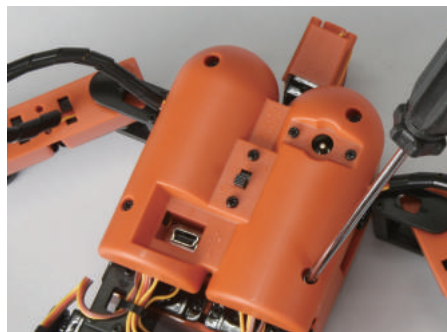
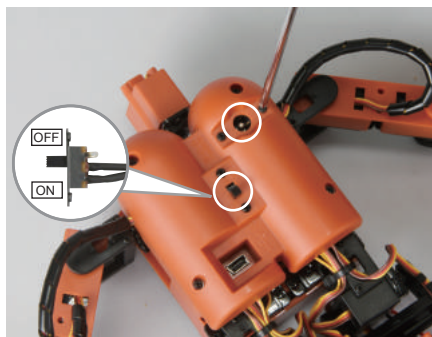


### Parts List

Part U x 1Pcs  
 HMF2-5B-1 x 2Pcs  
 HMJ2-6B x 2Pcs  
 HMJ2-8B x 4Pcs

### Assembly Method

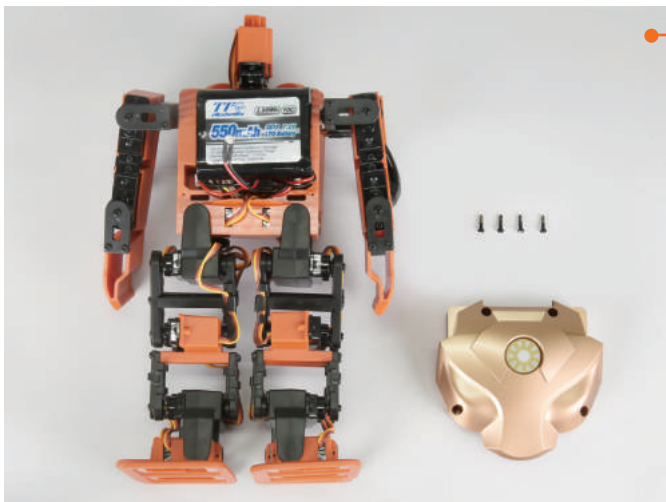
1. According to the figure, install the charger jack wire into the charger jack hole in Part U and use HMJ2-6B to lock in
2. According to the figure, install the switch wire into the corresponding position in Part U and use HMF2-5B-1 to lock in
3. According to the figure, install Part U and use HMJ2-8B to lock in



### Note

1. Please pay attention to the direction of the switch wire during assembling
2. When assembling Part U, make sure that the hole of MINI USB port is correct and meanwhile the wire should not be bended improperly





### Parts List

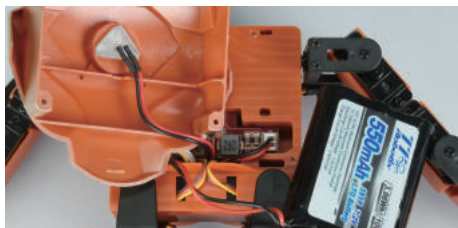
Battery x 1Pcs  
Part H Set x 1Pcs  
HMJ2-8B x 4Pcs

### Assembly Method

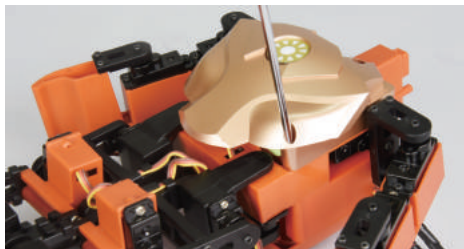
1. According to the figure, connect battery to the power board



2. According to the figure, install LED wire into Part H set

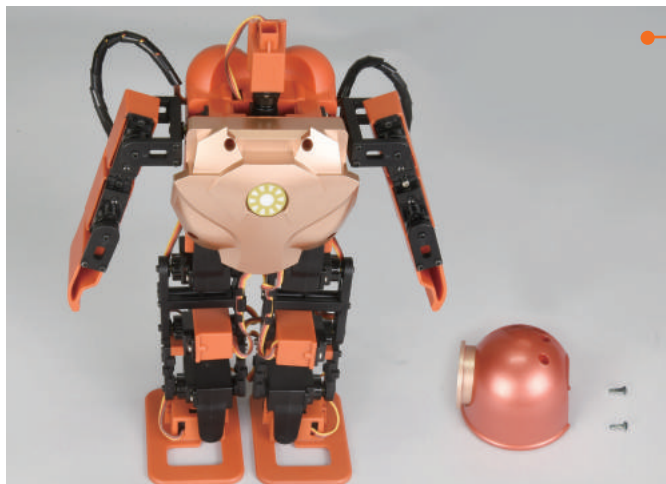


3. According to the figure, install Part H set and use HMJ2-8B to lock in



### Note

Please make sure that the switch is turn OFF before loading the battery

**Parts List**

Hood Set x 1Pcs  
HMJ2-6B x 2Pcs

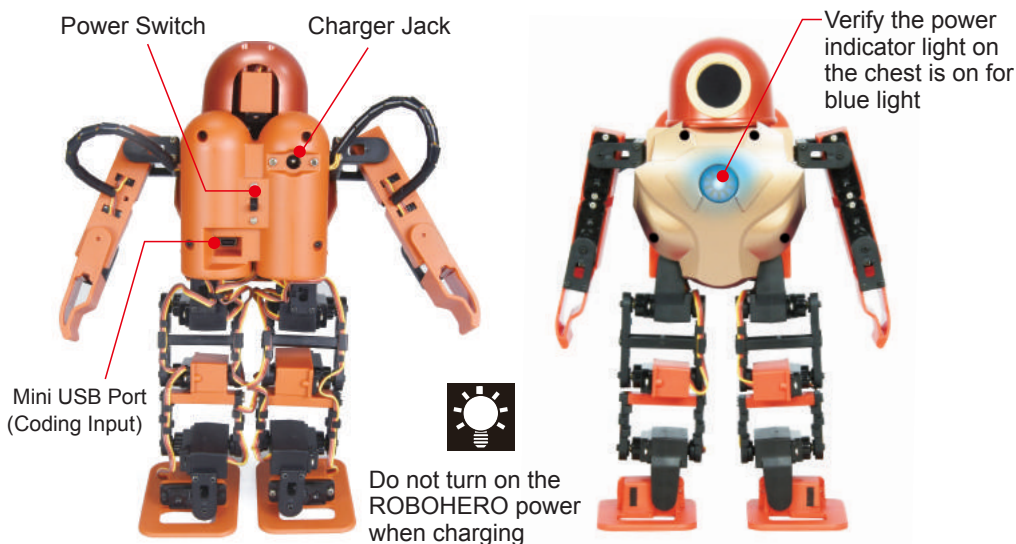
**Assembly Method**

According to the figure, install hood set and use HMJ2-6B to lock in



## BOOTING

1. Charging the ROBOHERO for one hour, then discharging when the charger indicator light turns green from red.
2. Turn on the power, and verify the power indicator light on the chest is on.
3. The power is not enough or going to be ended if the power indicator light is continuously twinkling.



## ROBOHERO APP DOWNLOAD



Download the ROBOHERO App from the App Store or the Google play.



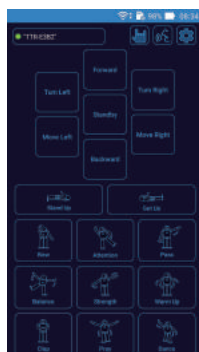
# ROBOHERO APP Connection

1. Make sure the Wi-Fi function on your smart phone is switched on.
2. Connect to the SSID TTR-XXXX and enter the password 12345678, which should appear in your Wi-Fi signals list approx.

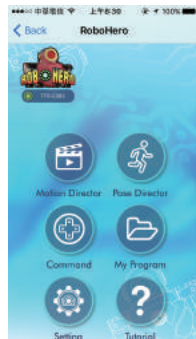


3. Click the ROBOHERO App on your smart phone.

ANDROID:



iOS:



# TROUBLESHOOTING

## **1. I can't get the remote control or wireless communication (WIFI) to work.**

- Please make sure the mobile phone WIFI has been turned on and the connection between mobile phone and ROBOHERO is normal.
- Wireless communication may not function properly if there is insufficient power supply. Please make sufficient power supply for the battery.
- If above ways can't be worked, please contact your local distributor or customer service of Thunder Tiger Corp.

## **2. There is no torque in the servo. The ROBOHERO motion is abnormal.**

- The battery is low, please fully charge the battery and try again
- The servo is stuck by the connection wire. Please arrange connection wire well and turn the servo back to datum point smoothly.
- User operating the ROBOHERO without pushing "Standby" in APP. Please push "Standby" in APP then operate the ROBOHERO.
- If above ways can't be worked, please contact your local distributor or customer service of Thunder Tiger Corp.

## **3. The ROBOHERO keeps on falling when performing a motion.**

- The battery is low, please fully charge the battery and try again
- The servo is out of the best status after factory, please adjust the status back to default value by servo setting mode in the APP, or contact your local distributor or customer service of Thunder Tiger Corp for assistance.

# Regulatory Compliance Information

## Taiwan Wireless NCC Information



CCAJ16LP9FD1T6



CCAJ16LP9FD0T4

本產品內含射頻模  CCAJ16LP9FD1T6  CCAJ16LP9FD0T4

### 低功率電波輻射性電機管理辦法：

#### 第十二條

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

#### 第十四條

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信法規定作業之無線電通信。

低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾

## Certification

### Federal Communications Commission (FCC)



FCC ID: 2AC7Z-ESPWROOM02

#### FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### FCC Caution

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

#### FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

The equipment has fully complied with the requirements of FCC Part 15 Rules. Operations is subject to the following conditions:

- (1) The device may not cause harmful interference.
- (2) The device must accept any interference received which may cause undesired operation.

The test data contained in the referenced test report relate only to the EUT and Item(s) tested.



## Declaration Of Conformity

The following mentioned products have been tested in typical configuration by Max Light Technology Co., Ltd. and were found to comply with the essential requirement of Council Directive on the Approximation of the Laws of the Member State relating to Electromagnetic Compatibility.  
(2014/30/EC)

Report No : MLT1607EMC001

Equipment :

Type of Product : ROBOHERO  
Trade Name : THUNDER TIGER  
Model Number : 7500-Fxx (Super Combo Edition)(xx=00 – 99)  
Series : 7500-Kxx (DIY Kit)(xx=00 – 99)  
                  : 7500-Axx (Assembly Kit)(xx=00 – 99)

Applied by :

Applicant : THUNDER TIGER CORPORATION  
Address : NO.7, 6TH ROAD, INDUSTRY PARK,  
          TAICHUNG TAIWAN R.O.C.

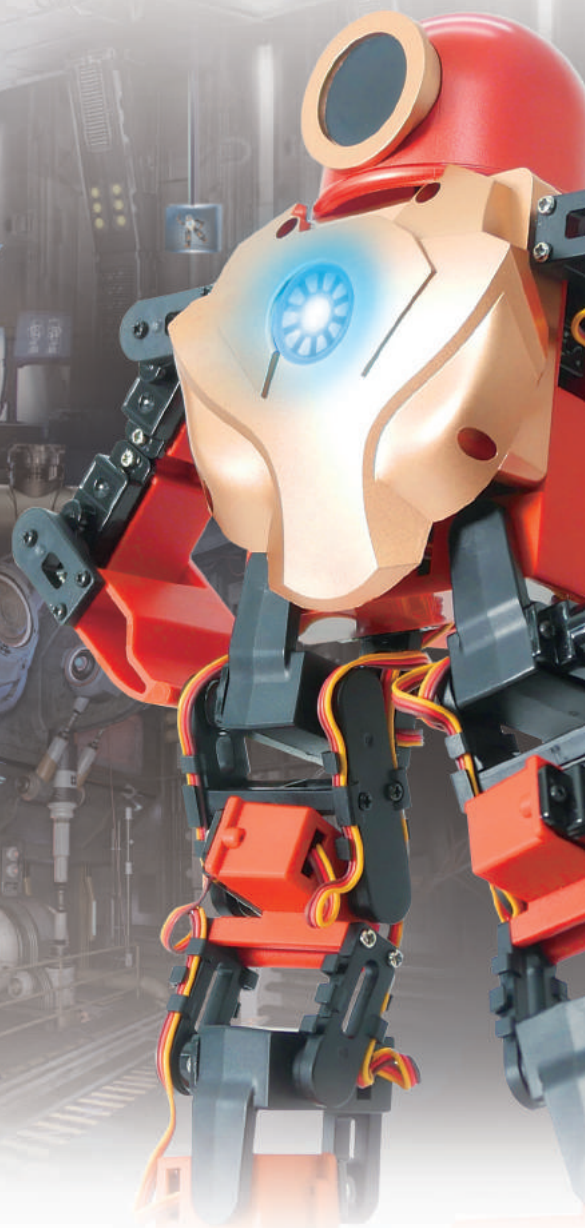
Applied Standards:

EN 55022: 2010/AC: 2011 (Class B)  
EN 61000-3-2: 2014  
EN 61000-3-3: 2013  
EN 55024: 2010  
IEC 61000-4-2: 2008(ESD)  
IEC 61000-4-3: 2006+A1: 2007+A2: 2010(RS)  
IEC 61000-4-4: 2012(EFT)  
IEC 61000-4-5: 2014(Surge)  
IEC 61000-4-6: 2013/COR1: 2015(CS)  
IEC 61000-4-11: 2004(Dip)

Based on the description of Article 10(1) of the EMC directive, the manufacturer or his authorized representative within EC shall affix the CE Marking to the product if he ensures that the product complies with the relevant harmonized standards and draws up a declaration of conformity.

Authorized by :  Date : October/24/2016  
Roger Chen

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<http://robohero.ttrobotix.com>



THUNDER TIGER GROUP  
[thundertiger.com](http://thundertiger.com)