

土星工匠师[®]

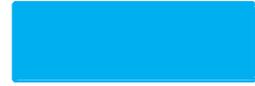
TECHING
土星文化

ROBOT SERIES

Robot Series

Metallic Mechanical Assembly Model





Product name: Walker No.1

Product model: DM20

Main materials: anodic aluminum oxide +
stainless steel

Charging voltage: 10-20VDC

Control mode: Bluetooth / infrared

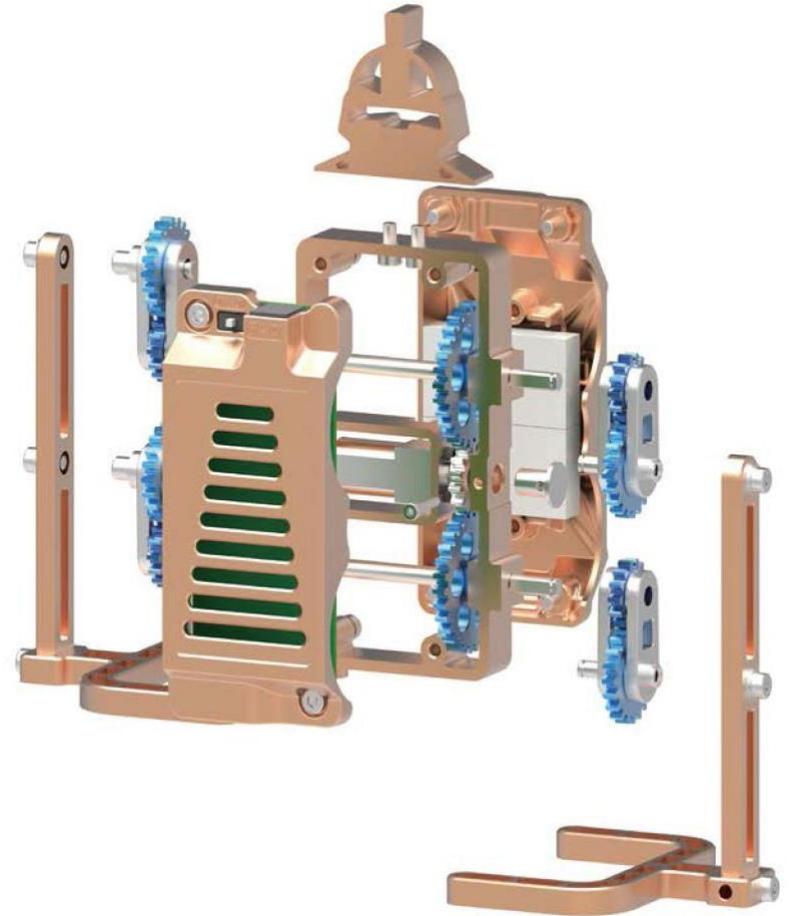
Battery capacity: 1000mAh

Assembly difficulty: ★

Product standards: GB/T9254-2008

GB/T17626.2-2006

Quality grade: A



**Let's create a wonderful through
labor!**

Assembly Instructions for Teching Craftsman

“Teching Craftsman” is a metallic assembly model other than a toy for playing only. It serves to improve hands-on skills of children and youngsters, and let them learn common industrial knowledge mainly. By keeping using our products, the user can reach the goal of assembly – refitting – creation in stages.

The requirements for product assembly are as follows:

- ◆ Perform assembly rigorously and orderly, keep the tabletop tidy, look at drawings carefully, and pay attention to safety;
- ◆ If you have any doubt when adjusting any assembly clearance or tightness after the completion of assembly, please refer to our website or WeChat public account;
- ◆ The user is encouraged to modify part defects or fitting clearances, and apply lubricant under adult supervision to further improve assembly;
- ◆ The user is encouraged to use simple material removal tools (file, sandpaper, etc.) under adult supervision;
- ◆ The user is encouraged to modify or generally refit parts of this product to enter the refitting stage as early as possible;
- ◆ The user may disassemble this product and put it in the package again according to the parts list attached hereto;
- ◆ If any part is lost, please inquire of or purchase it from us (Teching store on www.taobao.com);
- ◆ The product structure is subject to continual improvement. If the real object differs from the instruction manual, please refer to our latest assembly information.

If you are willing to share with us, after completing product assembly tasks of different difficulty levels at different stages, you will receive corresponding gifts, and have a chance to win our special medals and take part in relevant events.

Safety Tips

1. Some safety awareness is required to use this product, and improving safety awareness is also one of the functions of this product;
2. This product is not intended for children below 8 years, and adult guidance on assembly is recommended for children below 10 years;
3. Use assembly tools rationally, assemble the parts in strict conformity with the instruction manual, and avoid forcible handling to avoid scratches; keep sharp points of tools or parts away from the eyes to avoid contusions;
4. This product is made up of metallic parts mainly, and has a certain level of hardness and a certain weight; please place it properly to avoid bodily injuries;
5. During mechanical movement, do not put a finger or any other part of the body within the movement range to avoid contusions;
6. When any mechanical part is turning, do not put a finger or any other part of the body beside it to avoid entanglement and contusions;
7. Wire connectors must be connected according to the marks specified in the instruction manual to avoid short-circuit or failure arising from wrong connection;
8. Charge, discharge and place the battery as required; it is advised to replace the battery when it has not been used for 3 months or more;
9. Do not prevent any part from running forcibly in any form; to do this, turn off the power directly;
10. To refit this product, please pay attention to the relevant part parameters, and avoid using any high-power electric part that may result in an accident.

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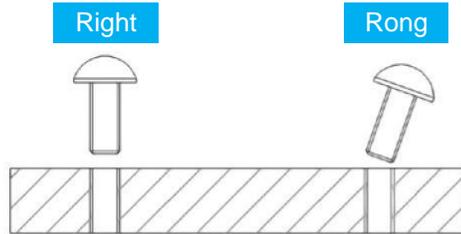
Operation guide for the
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Parts list of the Walker robot
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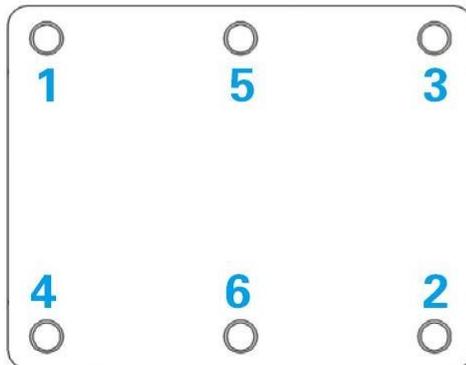
Basic knowledge on standard parts assembly

1. Mounting of screws

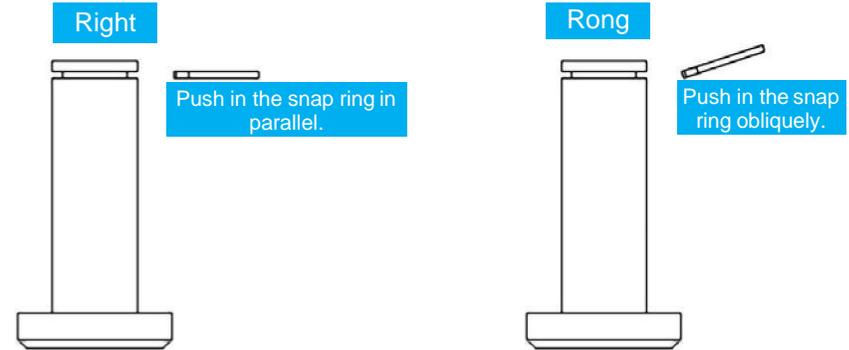


2. Mounting sequence of screws

Mount the screws diagonally in order of number



3. Mounting of snap ring

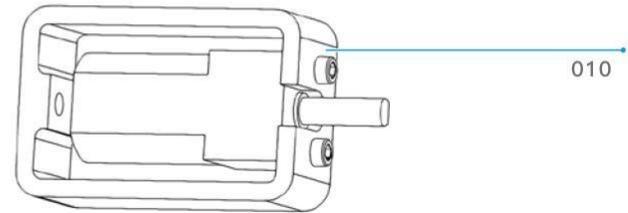
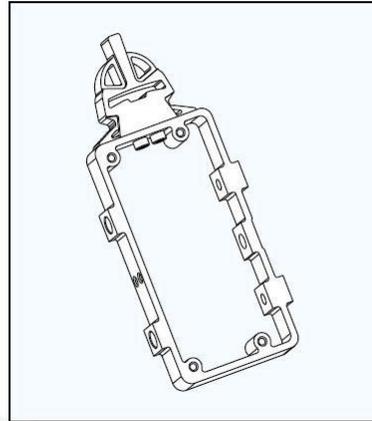
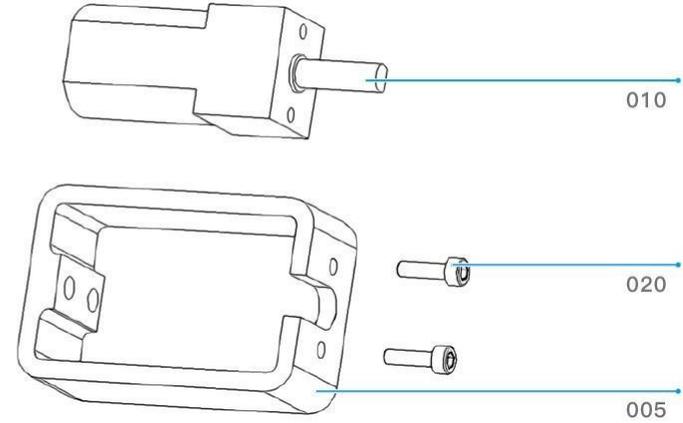
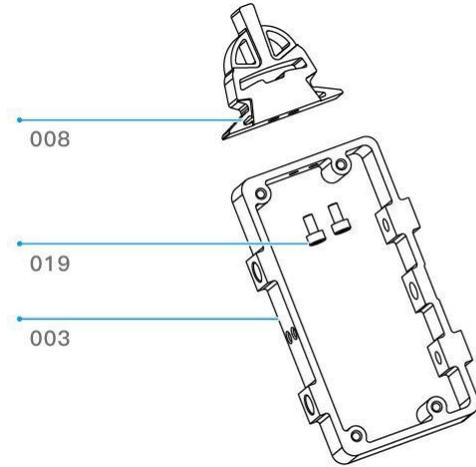


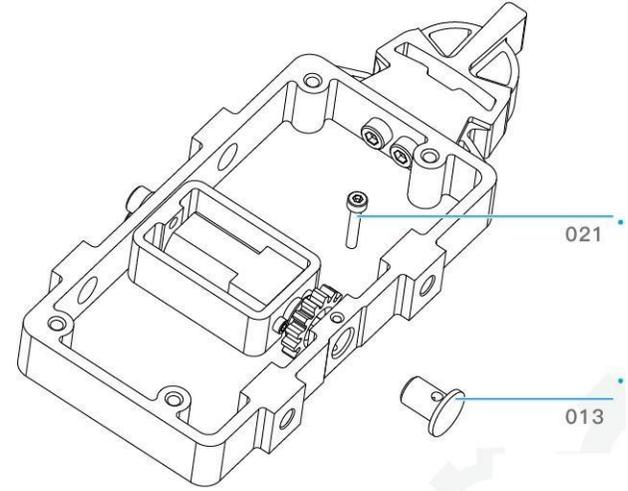
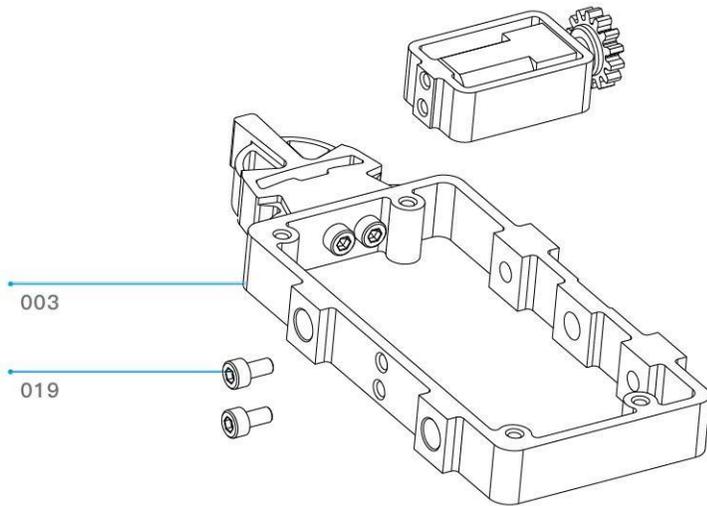
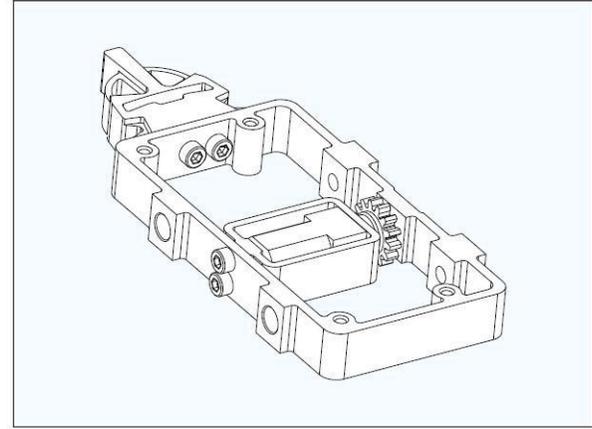
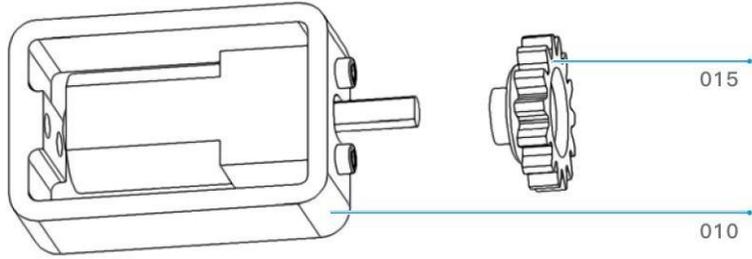
4. Lubricant mark

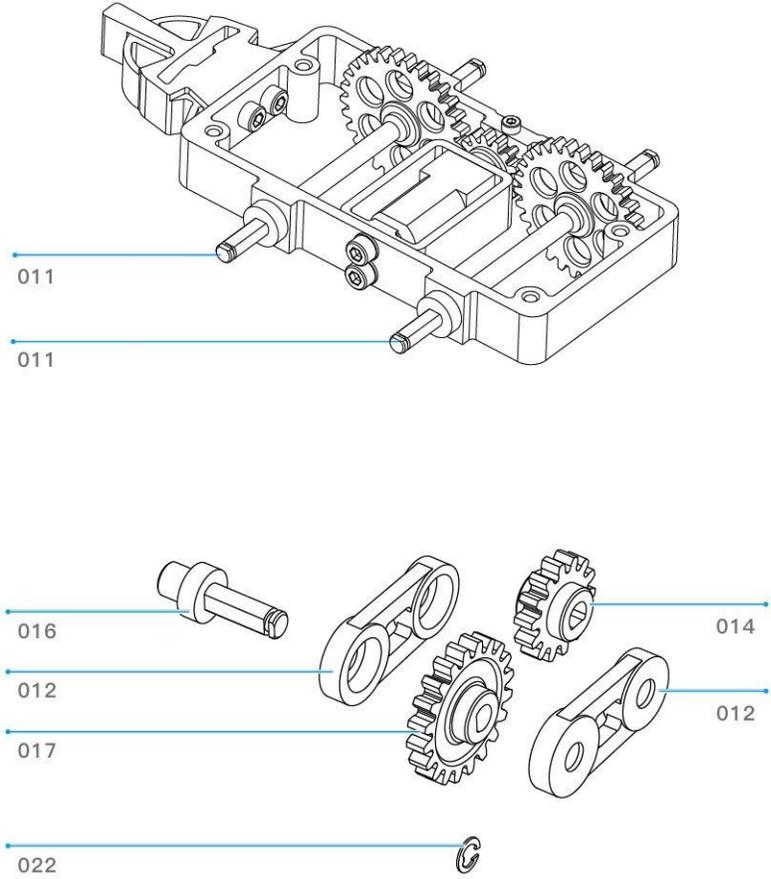
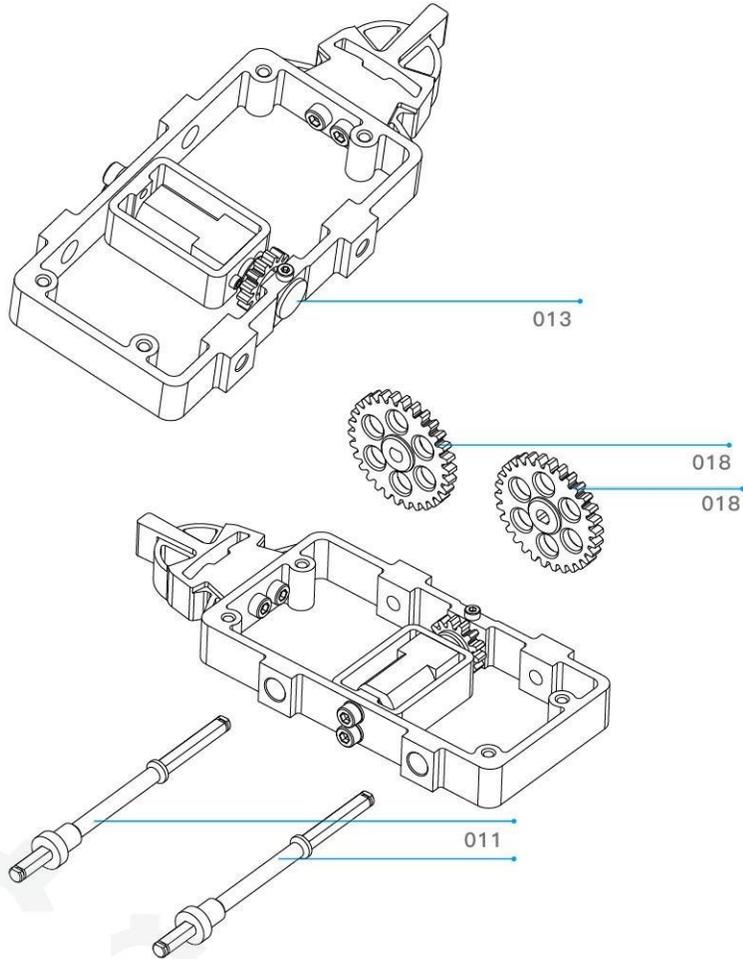


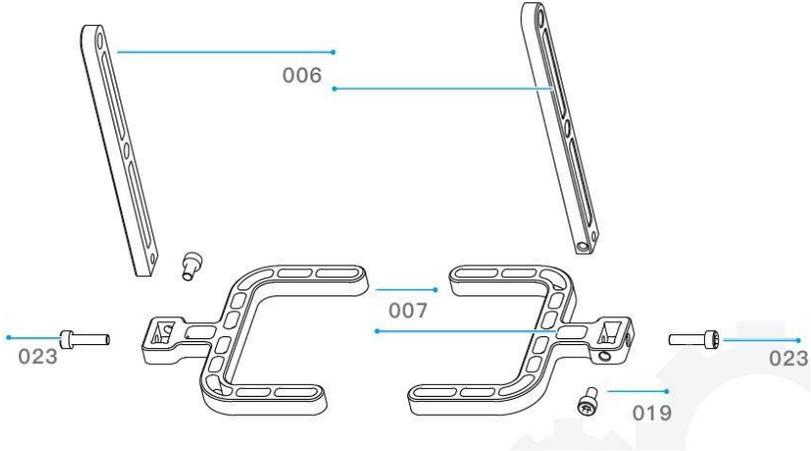
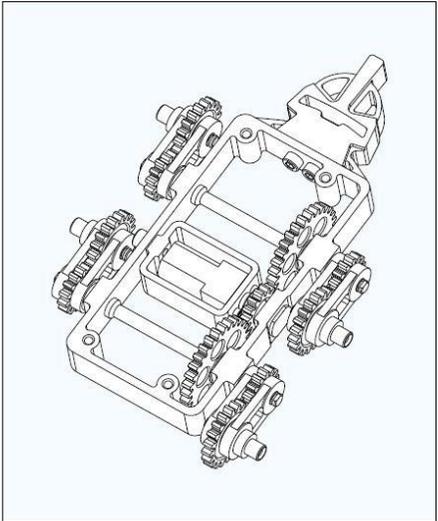
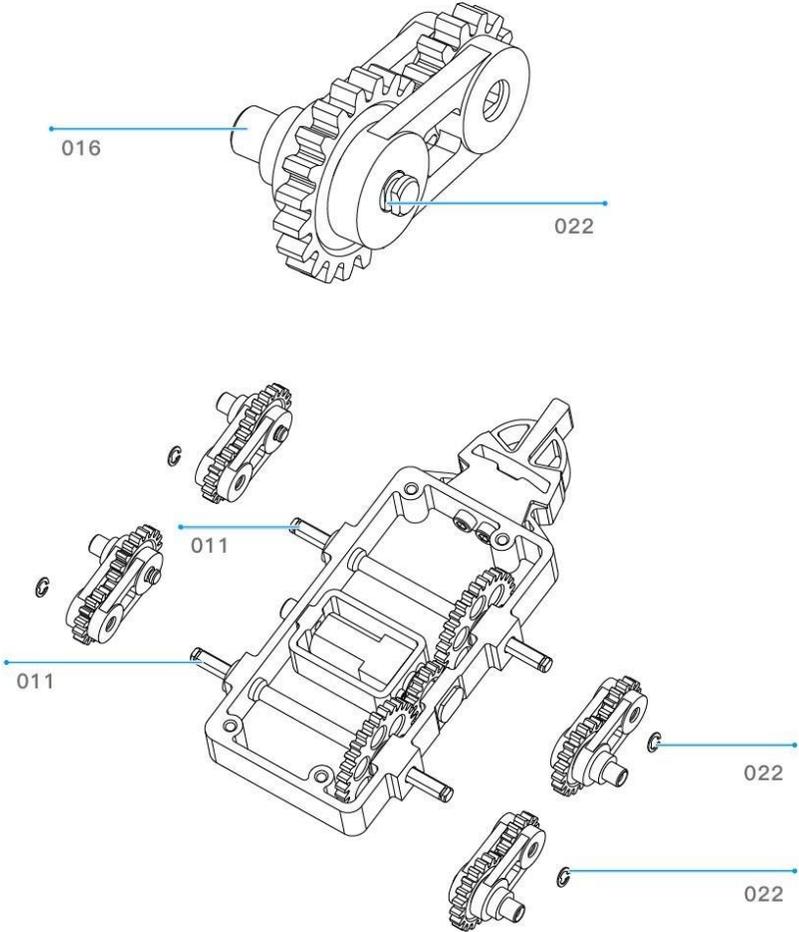
Where this mark is shown, it is recommended to apply create to improve mechanical performance.

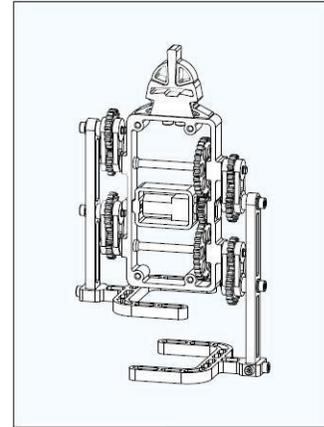
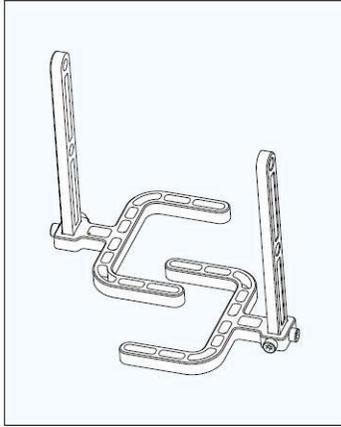
1. Assembly procedure of the Walker robot



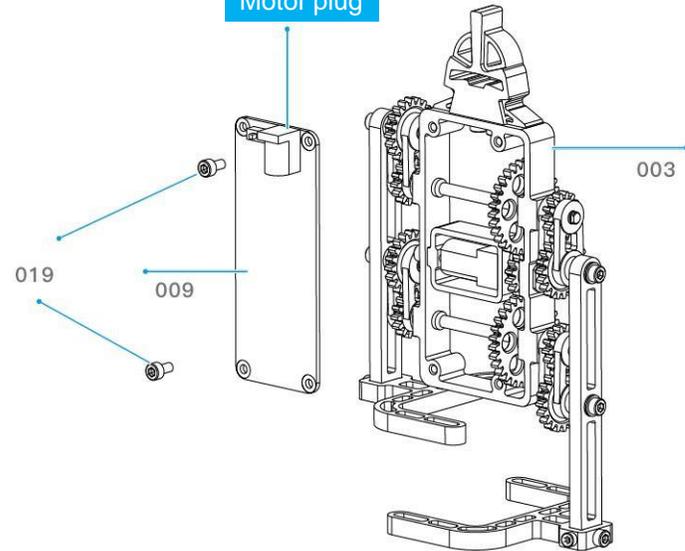
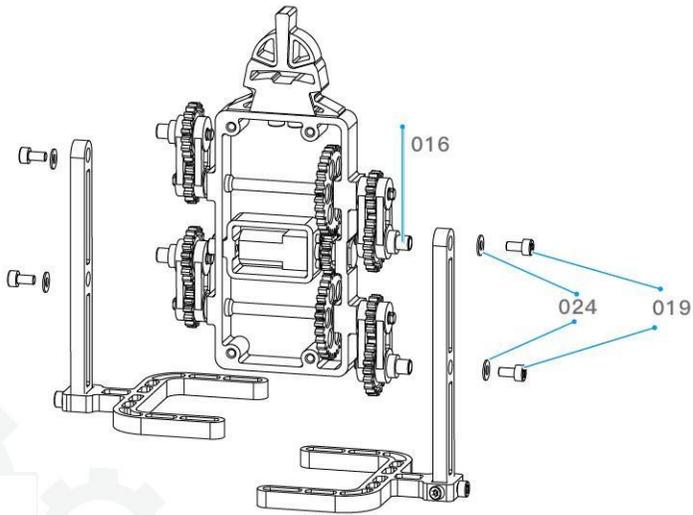


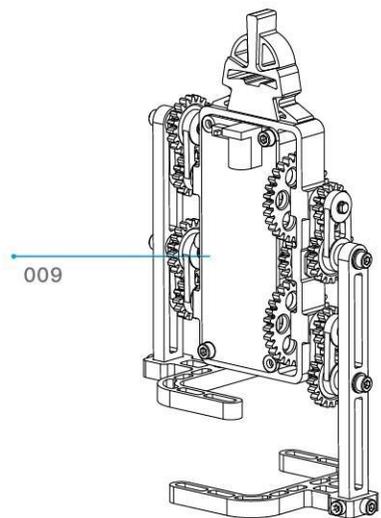






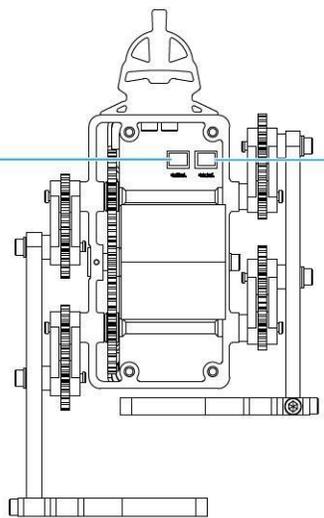
Motor plug



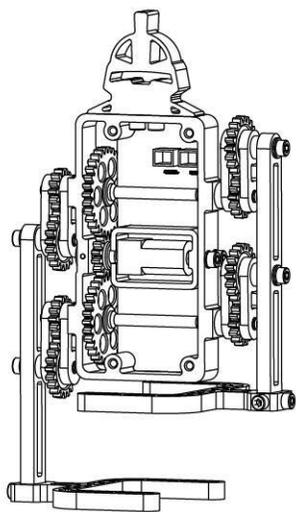
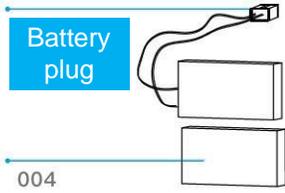


Motor socket

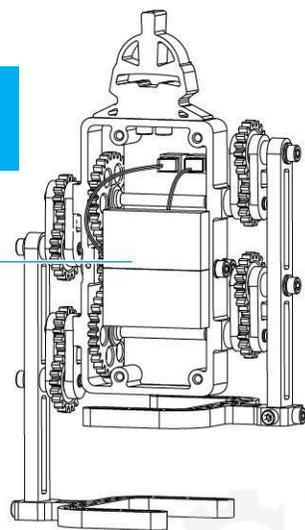
Motor socket

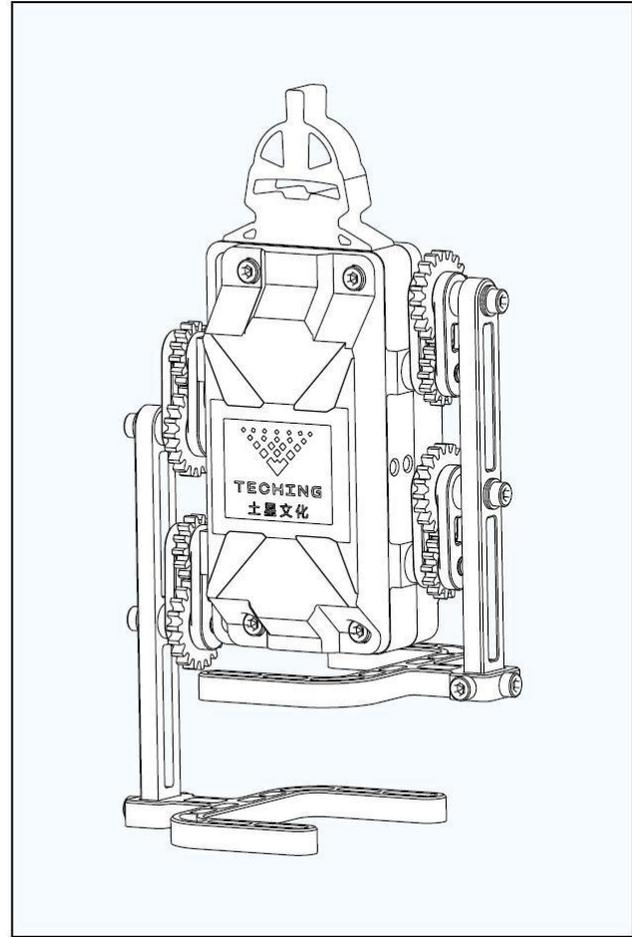
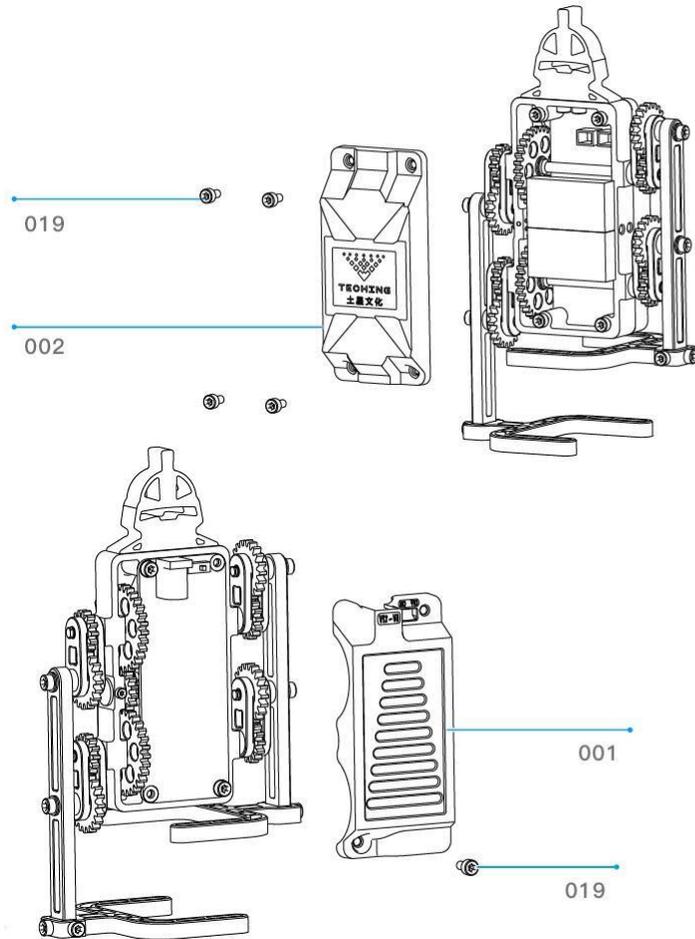


Note: The battery plug and the motor plug must be connected at the designated position!



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Assembly
completed

2. Operation guide for the Walker APP

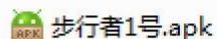
- **Note:** When the assembly of the structural parts and circuit board is completed, the circuit board should be wired properly and reliably.

2.1 Set up the app on the mobile phone (Version 4.3 or above required for Android systems).

Download address of the Pathfinder control APP: Teching Cultural Development (public account)



Download of the Android system version



Icon of setup file

2.2 Set up the app on the mobile phone, as shown below:



2.3 Open the software interface.

There will be the following two scenarios:

1. If the mobile Bluetooth function is not enabled, the following prompt will appear:



2. If the mobile Bluetooth function has been enabled in advance, there will be no prompt.

2.3 Set up the app on the mobile phone (Version 4.3 or above required for Android systems)



2.4 The Bluetooth device JDY-08 Walker No.1 is found, as shown below:

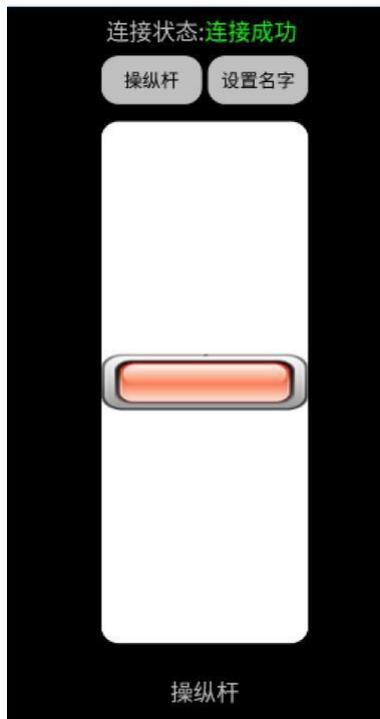


a. Click on the name of the device to enter the control screen automatically, which indicates that connection is being made.

b. During the connection of the Bluetooth device and after successful connection, the yellow indicator on the PCB board will remain on.

Note: If multiple Bluetooth devices are enabled simultaneously, all of them will be displayed. Select the one with higher signal strength (a device closer to you displays a number with a smaller absolute value).

2.5 After the mobile phone is connected successfully to the Bluetooth device, the device can be operated:



Note: If you have two different robots of our company (e.g., Walker and Pathfinder), the corresponding apps should be used separately for connection. The Walker app can only be used to operate the Walker.

| No. | Product | Product name | Qty. |
|-----|---|---------------------|------|
| 001 |  | Front cover of body | 1 |
| 002 |  | Rear cover of body | 1 |
| 003 |  | Body | 1 |
| 004 |  | Battery pack | 1 |
| 005 |  | Motor holder | 1 |
| 006 |  | Baseboard support | 2 |
| 007 |  | Baseboard | 2 |
| 008 |  | Head | 1 |
| 009 |  | Circuit board | 1 |
| 010 |  | Starting motor | 1 |
| 011 |  | Driven shaft | 2 |
| 012 |  | Gear fixing block | 8 |
| 013 |  | Locating shaft | 1 |

| No. | Product | Product name | Qty. |
|-----|---|-------------------------------|------|
| 014 |  | Pinion of baseboard | 4 |
| 015 |  | Gear of starting motor | 1 |
| 016 |  | Connecting shaft of baseboard | 4 |
| 017 |  | Bull gear of baseboard | 4 |
| 018 |  | Driven gear | 2 |
| 019 |  | M3X6 screw | 18 |
| 020 |  | M1.6X4 screw | 2 |
| 021 |  | M2X12 screw | 1 |
| 022 |  | Snap spring | 8 |
| 023 |  | M3X12 screw | 2 |
| 024 |  | Round washer | 4 |