



Full STEAM to the Future!

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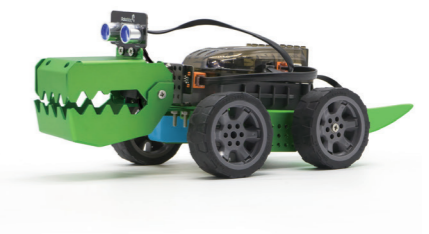


Q-dino

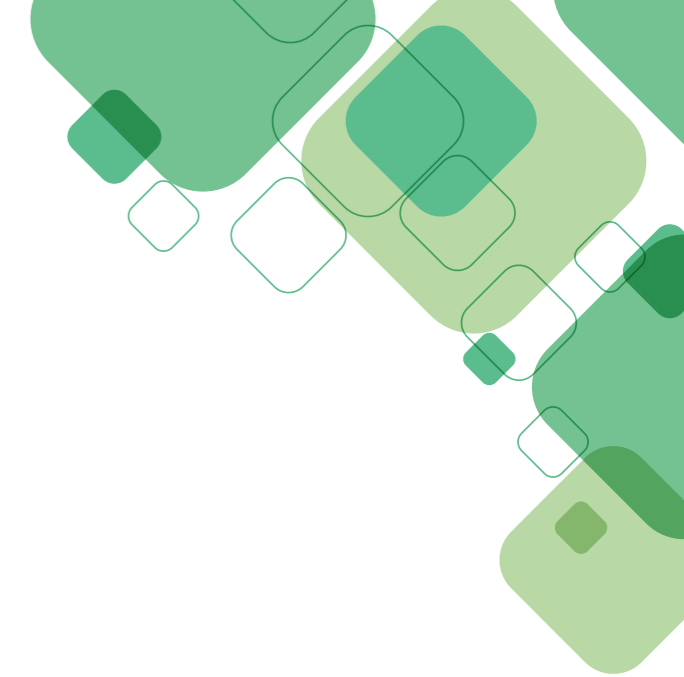
Metal Block Robots

Interactive 2 in 1

10+
Age



STEAM

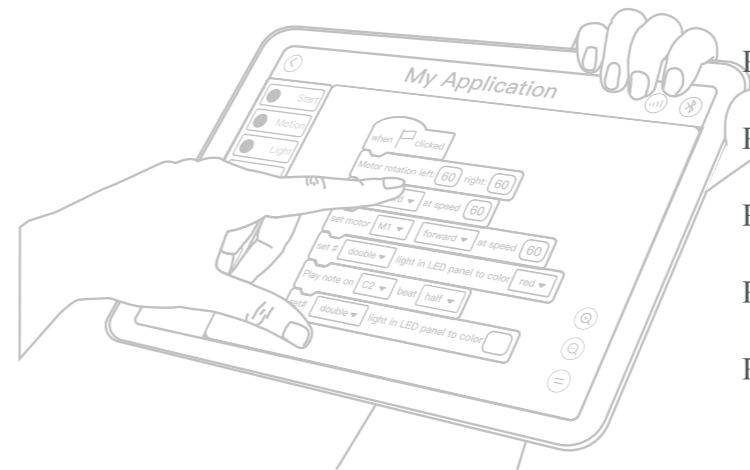


“

This User Manual provides information on the building and operation of the Q-dino. All users should read this User Manual carefully and follow the instructions inside to safely operate their Q-dino. The Q-dino User Manual may be updated when necessary. Please visit our website <https://wiki.robobloq.com/> to download the latest version of the User Manual.

”

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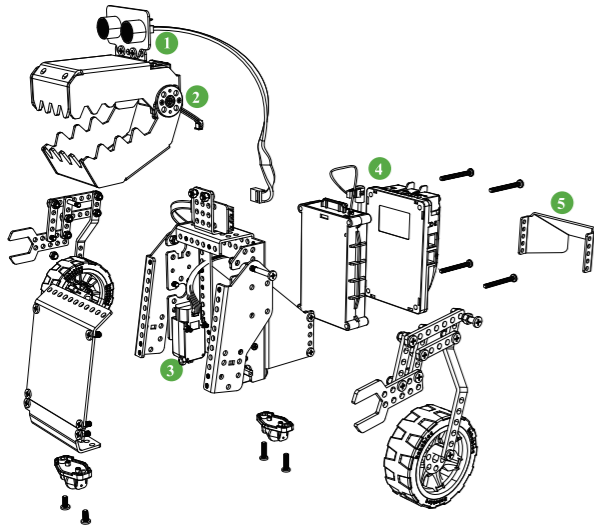
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What is Q-dino

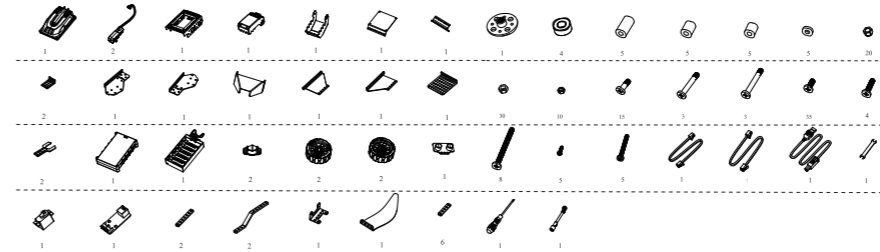
Q-dino is a programmable robot kit for ages 10+, it includes mechanical parts, mechanical structures, and electronic modules that can be freely assembled into different forms, as well as programming software and course materials. Students will be able to build the robots from scratch and experience the fun of hands-on creation. At the same time, they will also learn how the different mechanical structures and electronic modules function and practice Scratch programming. By making programming simple and fun, the robot kit helps students develop their skills and knowledge in science, technology, engineering, arts, and mathematics!



- 1 Ultrasonic sensor
- 2 Servo
- 3 130 motor
- 4 Mainboard(Arduino 328P)
- 5 Aluminum structure

How to use the kit

- 1 Check that no parts are missing.



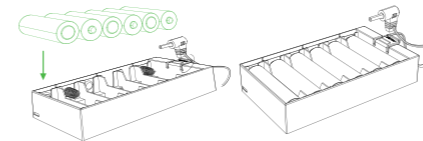
- 2 Build the robot.

Q-dino can be made into at least 6 different forms. Refer to the User Manual or the Robobloq app for assembly instructions.



- 3 Prepare 6 AA batteries.

(For better results, please use high-performance alkaline or NiMH rechargeable dry batteries.)



- 4 Download the Robobloq app to control your Q-dino!

Available on the
App Store

ANDROID APP ON
Google play



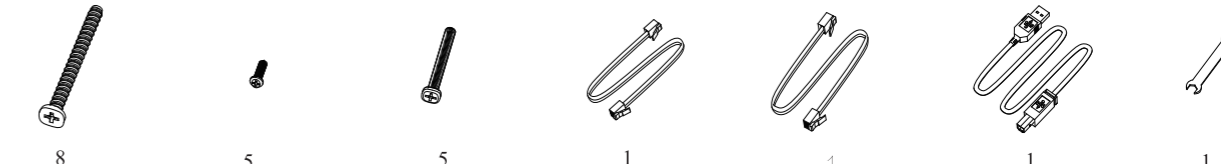
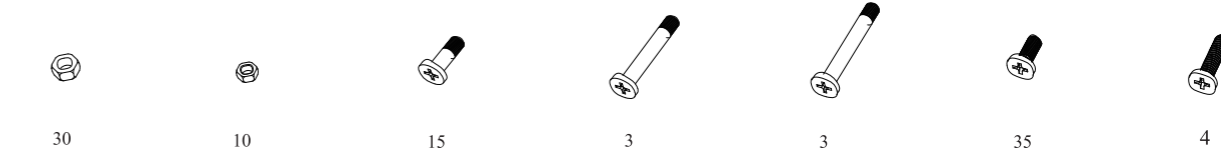
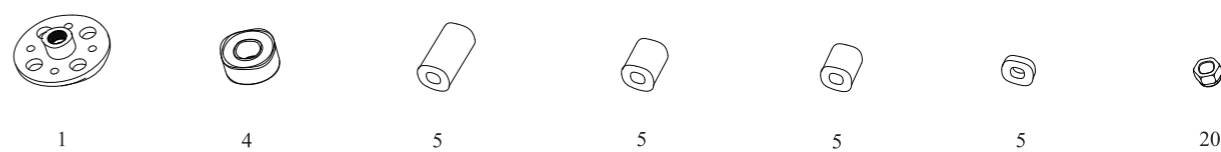
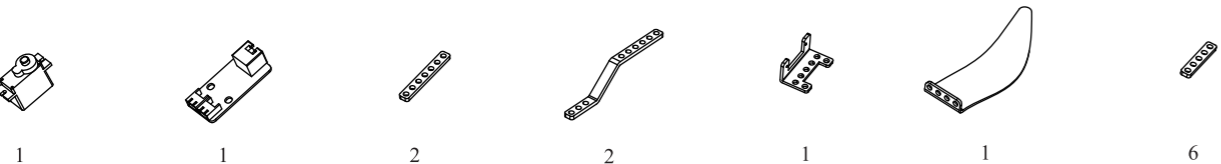
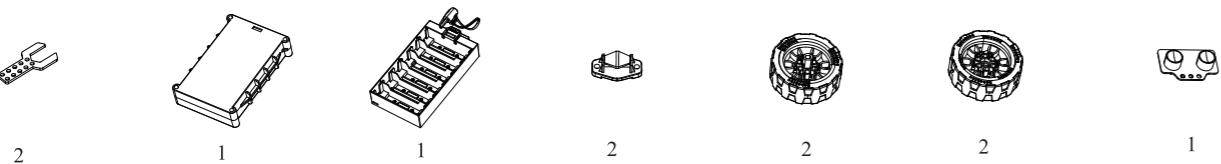
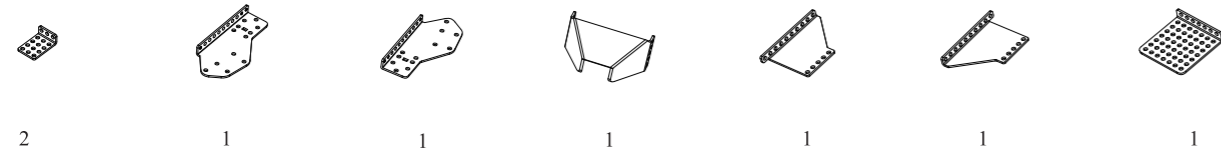
Q Robobloq

search

- 5 Program the Q-dino using the software.



What is inside the kit

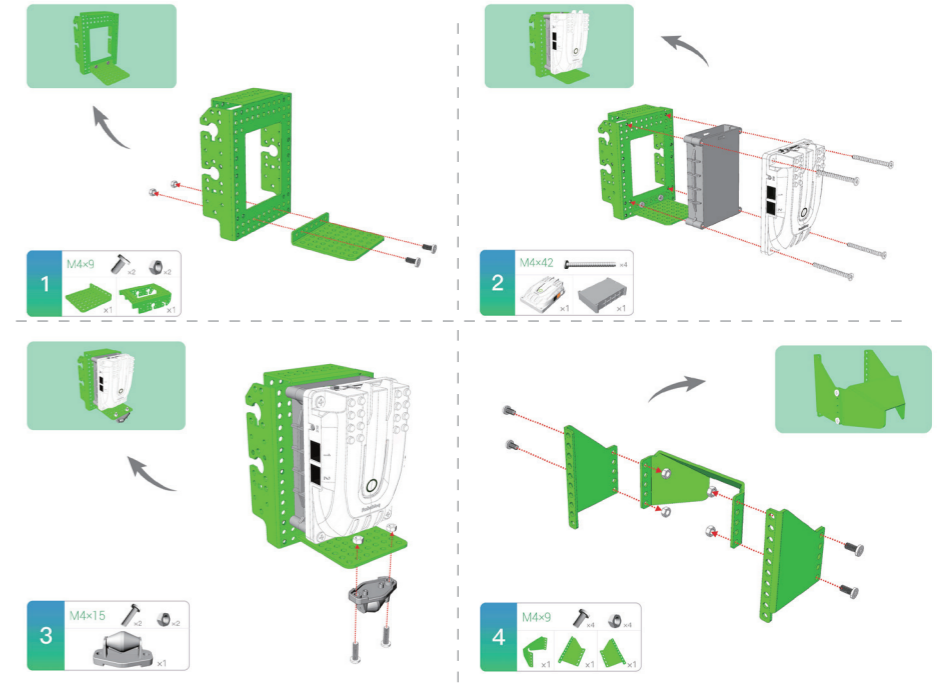


How to assemble the Q-dino >>>>



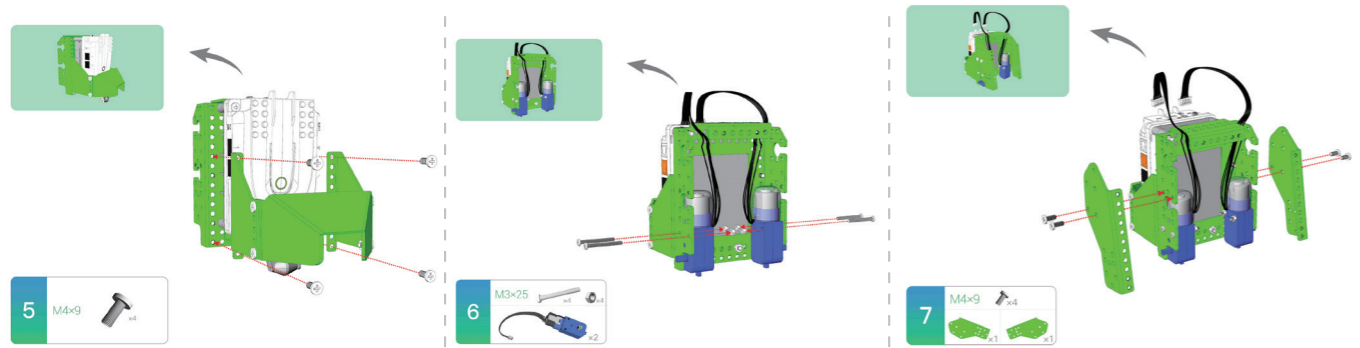
• 01 Assemble Q-dino


The two-wheel structure can drive the connecting rod hands to move flexibly. When Q-dino is angry, it's eyes will glow red.

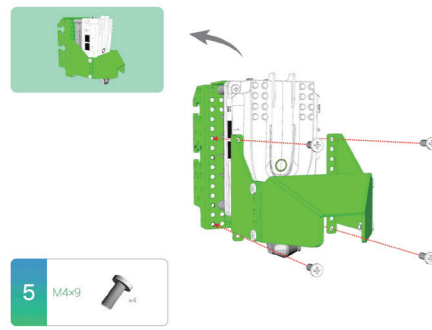




Assemble Q-dino


2/6






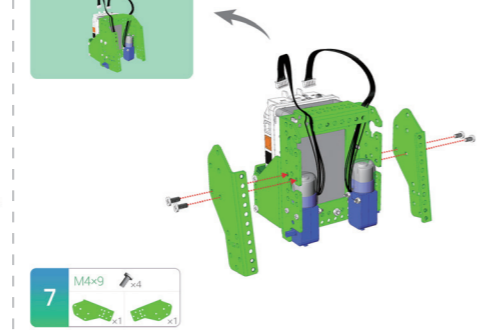
5 M4x9  x4




6 M3x25  x4  x2



7 M4x9  x4  x2



8 M4x11.5  x2  x2  x2



9 M4x11.5  x2  x2

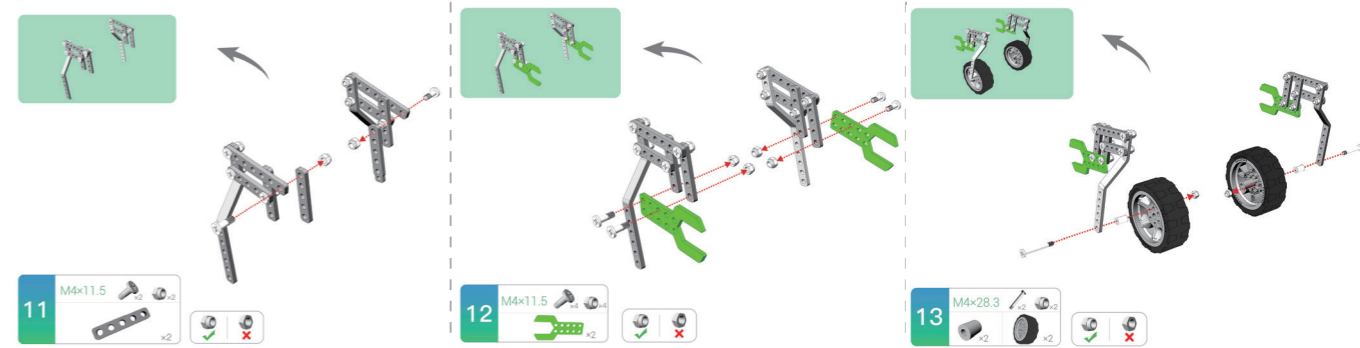




10 M4x11.5  x2  x2

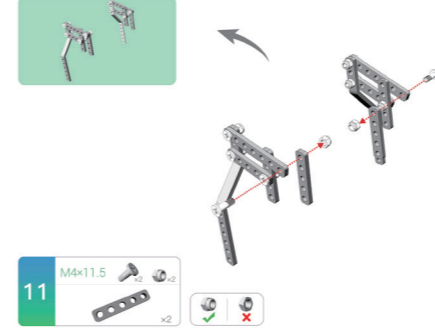




Assemble Q-dino

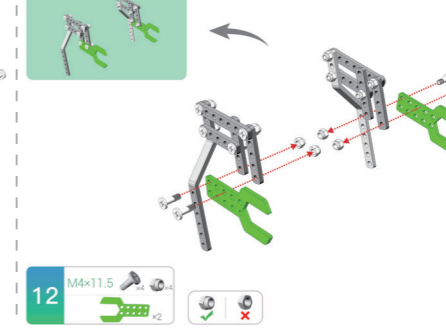
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


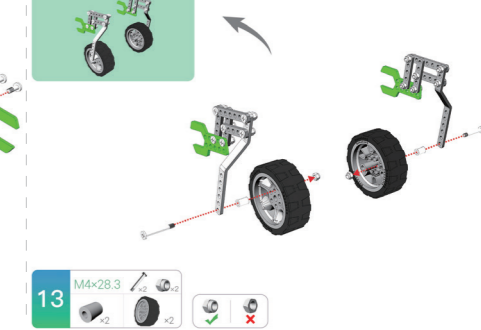
11 M4x11.5  x2  x2



12 M4x11.5  x2  x2



13 M4x28.3  x2  x2



14 M2.3x8  x2



15  x2

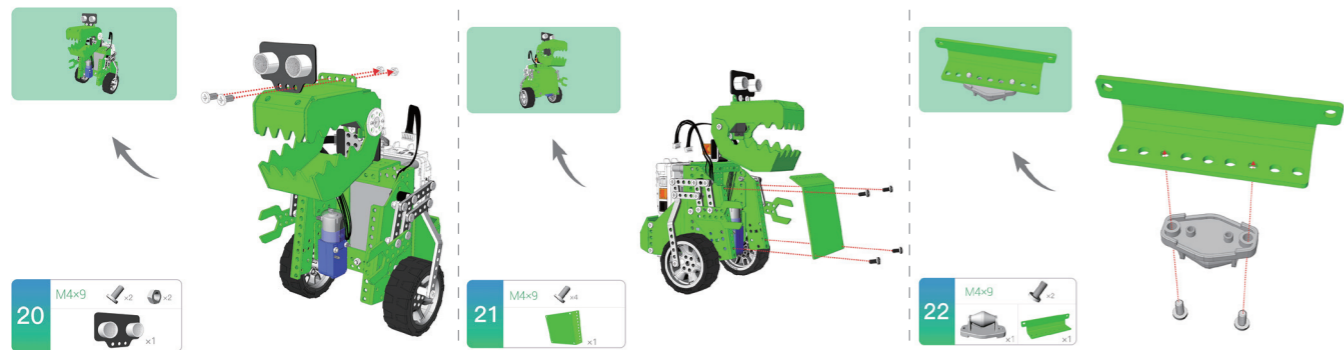
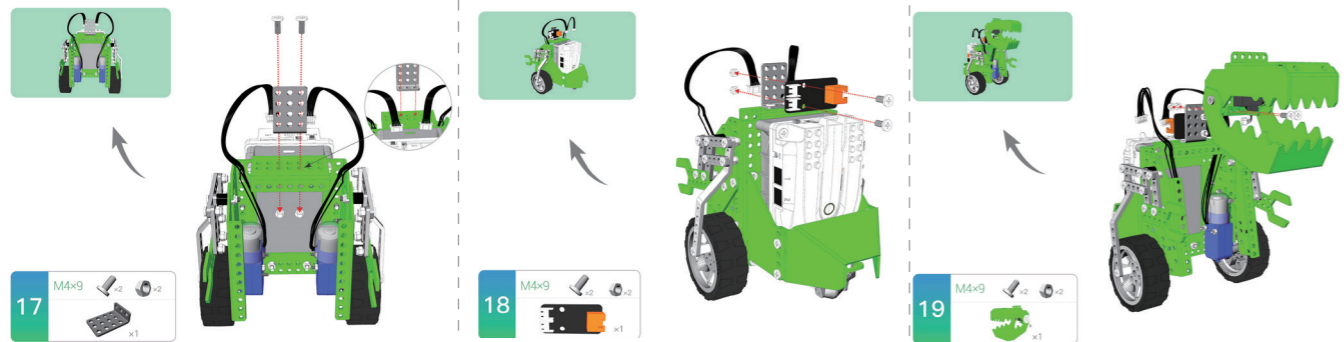


16 M4x24.5  x2  x2



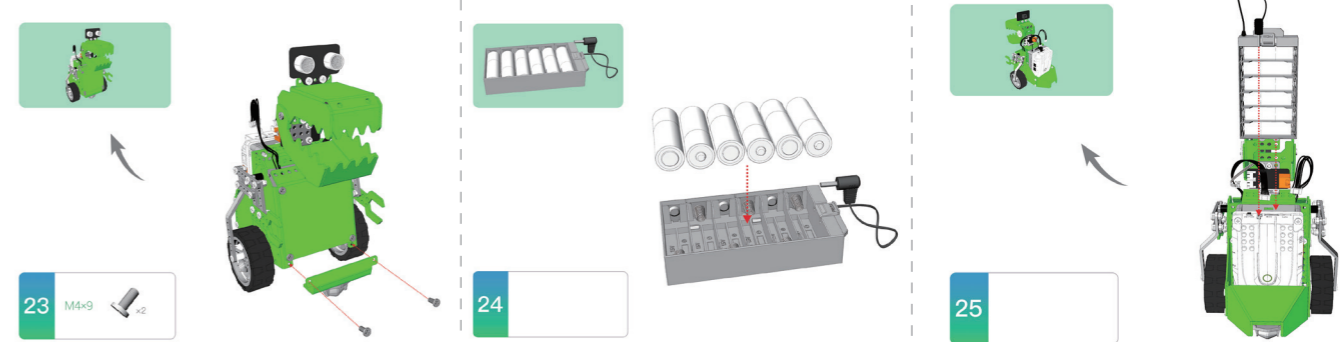
Assemble Q-dino

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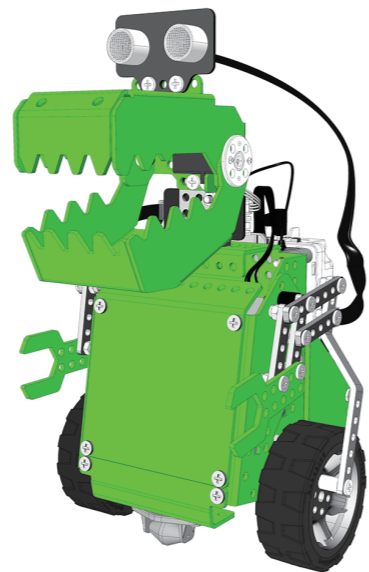
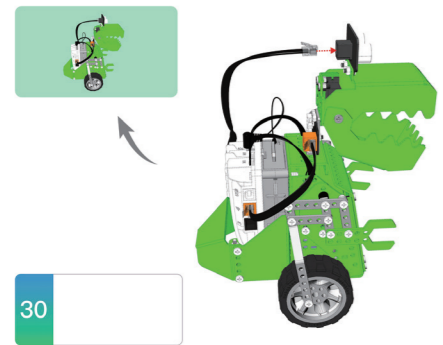
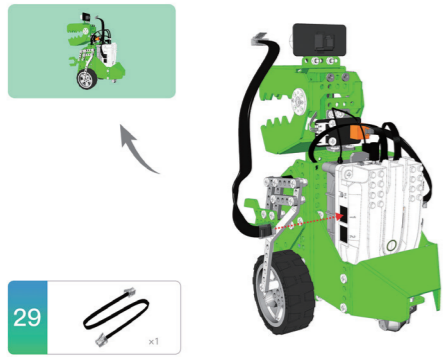


Assemble Q-dino

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Assemble Q-dino

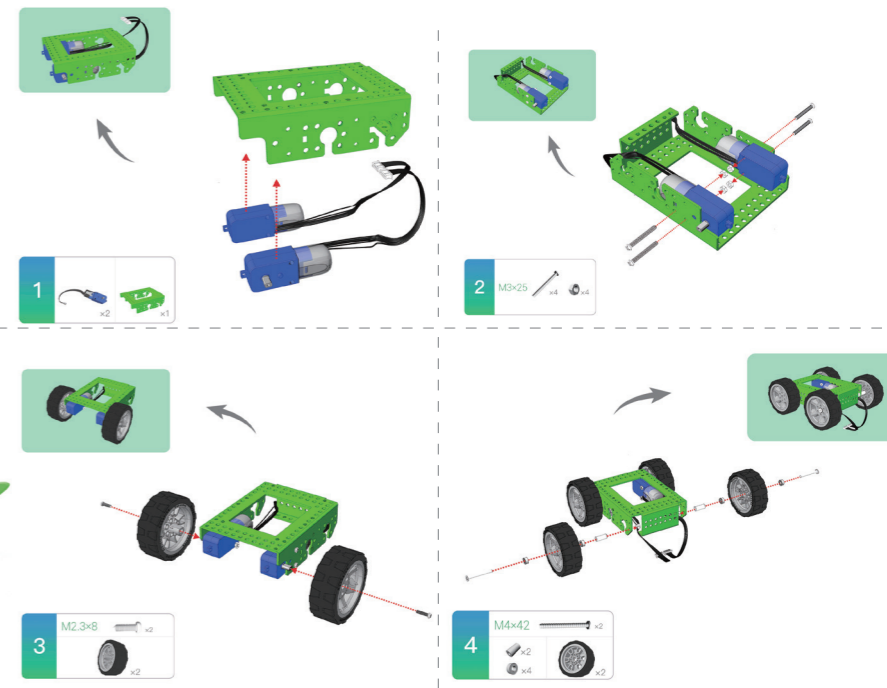


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02 Assemble Q-crocodile

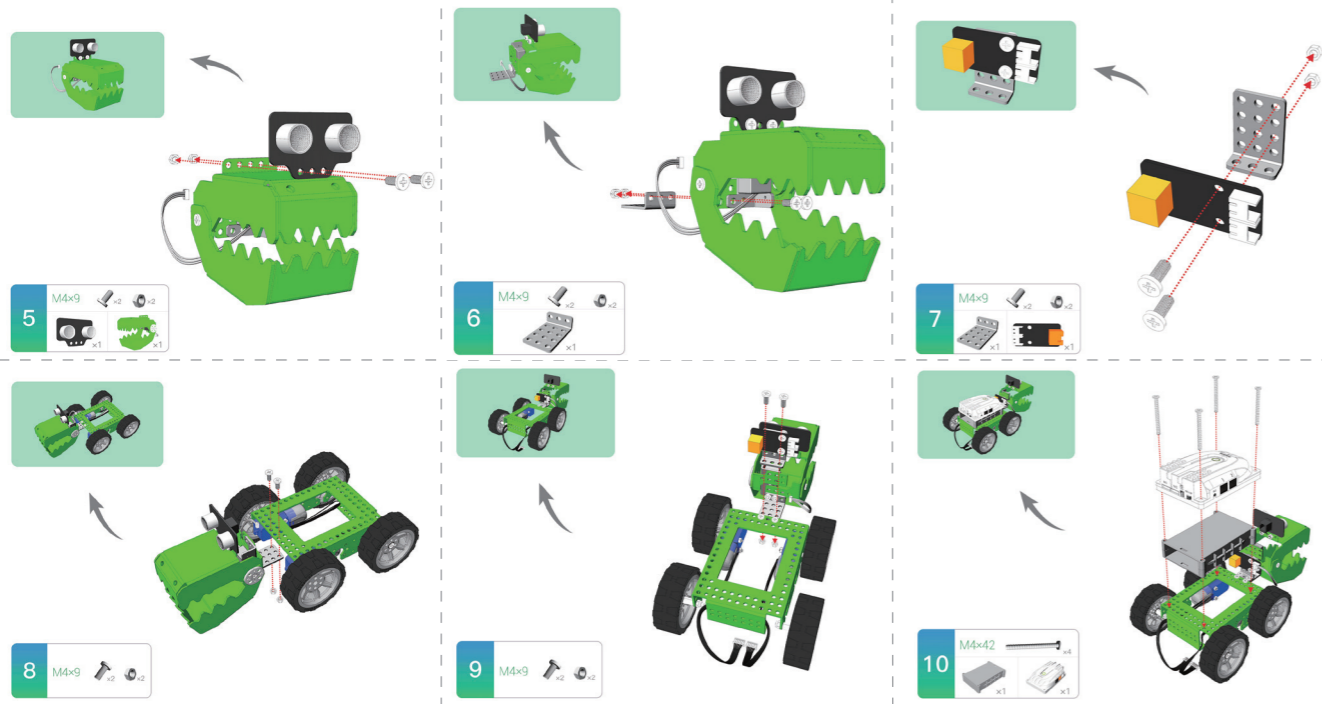
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The four-wheel structure can move flexibly and quickly. Its eyes will be lit up with green light and its jaws can open and close.



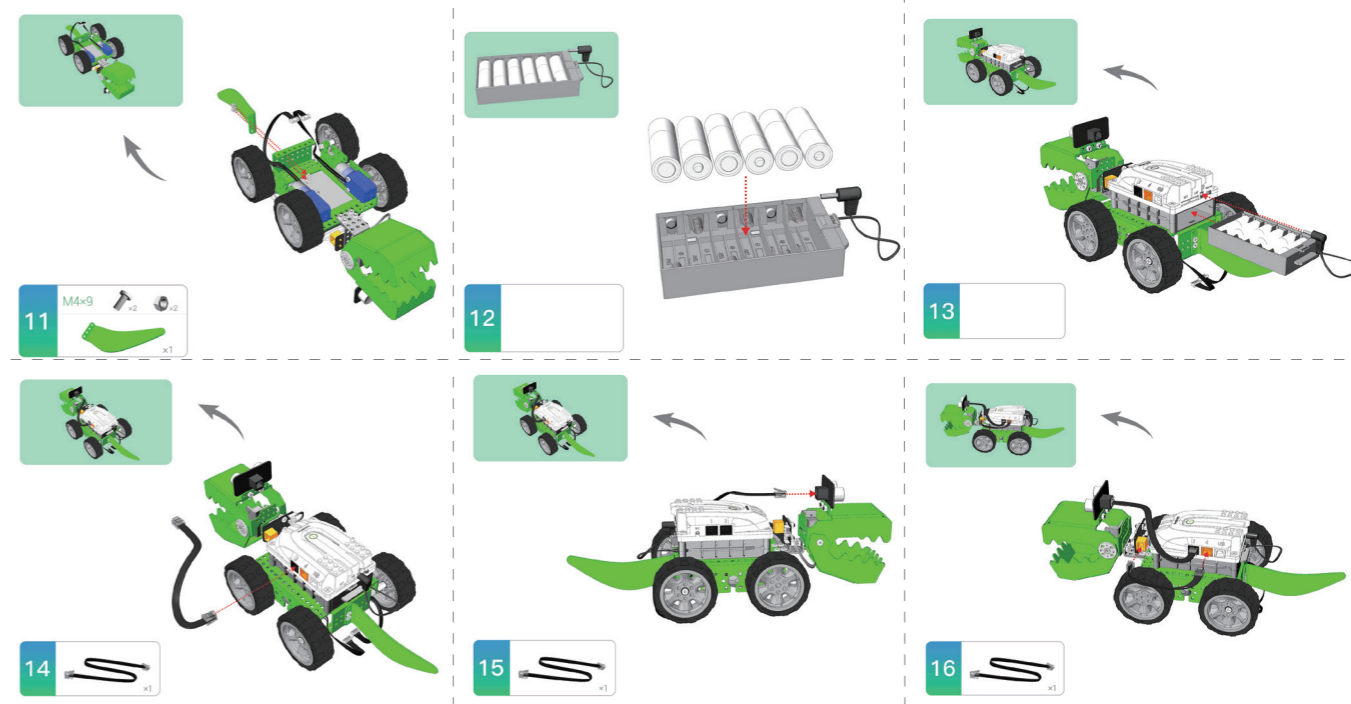
Assemble Q-crocodile

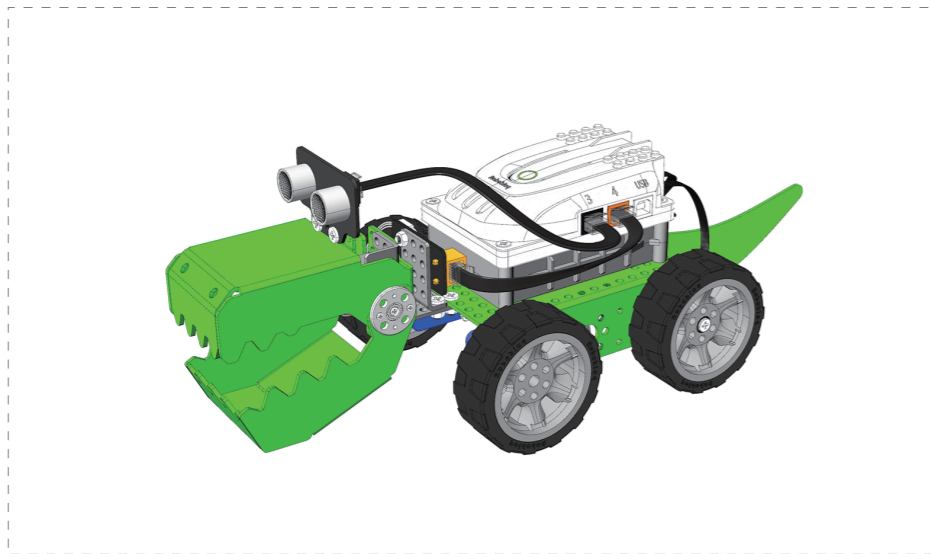
2/4



Assemble Q-crocodile

3/4





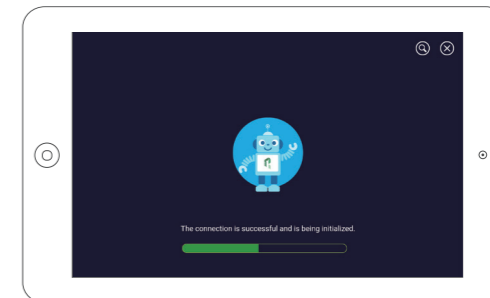
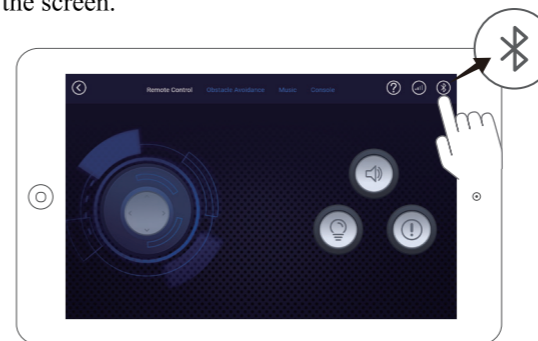
How to use the app (Android & iOS)

1. Download the Robobloq app to a mobile device: Search for "Robobloq" on your device's app store or scan the QR code below.



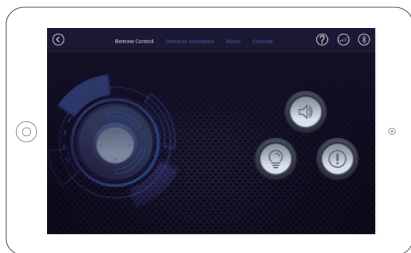
(Supports iOS 7.0 and Android 4.3 or higher, and Bluetooth 4.0)

2. Turn on the power switch of the robot, open the Robobloq app, and then tap the Bluetooth icon at the top right corner of the screen.

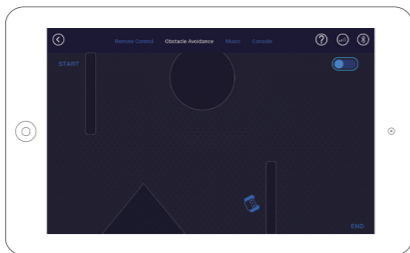


3. Once the device is connected to the robot via Bluetooth, you can control the robot.

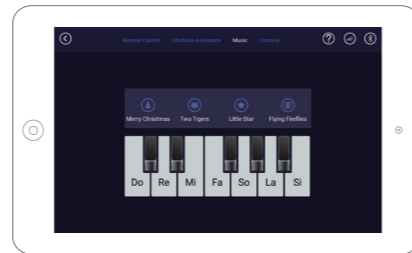
A. There are 3 modes of control: Remote Control, Obstacle Avoidance, and Music



 Remote Control Mode



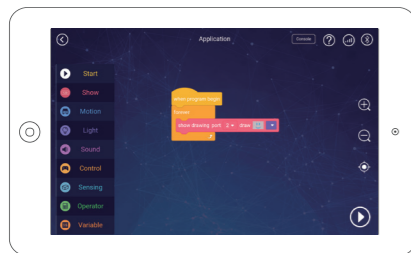
 Obstacle Avoidance Mode



 Music Mode

B. Programming

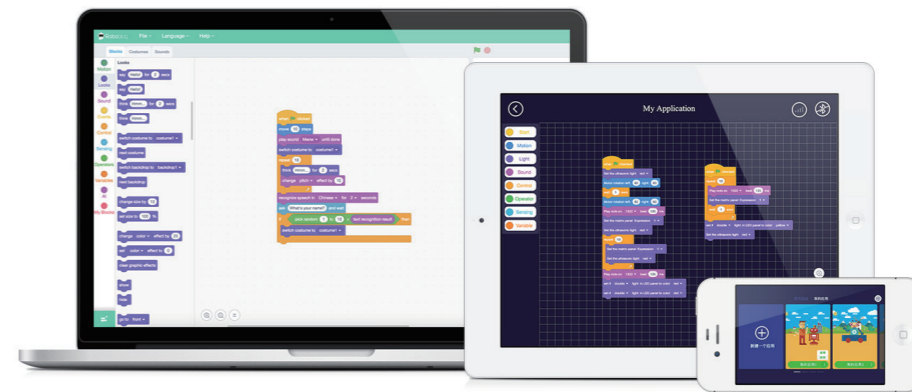
Open the app > Tap "Application" > Create program and drag the programming blocks to start programming the robot. Once you are done, tap the "Play" icon at the bottom right corner of the screen and watch the robot perform the actions according to the instructions you programmed!



How to program Q-dino using the PC software

MyQode is a graphical programming PC software platform specially designed for Robobloq robots. You can learn how to program the robot using the MyQode platform and download the programs that you have written onto your Q-dino.

1. Visit www.robobloq.com/software/download to download the MyQode version suitable for your PC.
2. Connect your Q-dino to your computer via a USB cable. Next, click Help -> Install Serial Driver to install driver. Make sure that your Q-dino is displayed as "Online" status on the MyQode platform. Now you are ready to transfer what you have written to your Q-dino.



Specifications

Product	Q-dino	Input	Button x1, Ultrasonic sensor x1
Forms	2	Output	Buzzer x1, RGB LED x2
Control Board	Arduino mega328p	Battery	6 AA batteries (not included in the kit)
Motor	130 Motor	Software	Robobloq APP, MyQode, Arduino IDE
Communication	Bluetooth 4.0	Weight	1752g
Extension	3 sensor ports, 1 motor ports		

Robobloq also has a rich sensor ecosystem, including: light sensitive, sound, gyroscope, color, RGB LED, multipath, temperature and humidity, PIR, MP3 modules and more than 30 kinds of sensors and electronic modules, to support the functional expansion and robot programming learning of the Q series metal robots. You can learn more about the sensors at Robobloq's website.



FAQ

For more information, please visit: wiki.robobloq.com

1. When I try to connect my Q-dino via Bluetooth using the Robobloq app, a "Bluetooth connection declined" message is shown on my mobile device:

This happens when you try to connect to the robot by searching for bluetooth devices using your mobile device instead of searching in Robobloq's APP. Open the Robobloq app and tap the Bluetooth icon at the top-right corner of the screen. Place the mobile device within 10-20 cm from the robot and a connection will be automatically established.

Note: Go to the Bluetooth settings of the Robobloq app to connect the robot, not the Bluetooth function of the mobile device.

2. I tried to connect my robot via Bluetooth using the Robobloq app at least 4-5 times, but it keeps saying "Bluetooth connection declined":

- Check if the mobile device's "Location services" is enabled. Once it is enabled, tap the Bluetooth icon in the app to try connecting to the robot again. Generally, this should resolve the issue.
- Try downloading the latest version of the Robobloq app and see if the issue is resolved. You can search for "Robobloq" in a mainstream app store to download or update it.

3. What is the "BLE" button next to port 1 of the control board 1 used for?

The "BLE" button is for Bluetooth connection. If a mobile device cannot directly connect to the robot, press the "BLE" button and the robot will search for the mobile device and establish a connection.

4. I have already connected my robot via the app's Bluetooth setting, but why doesn't it move when I use the Remote Control functions?

- Try testing the other functions first: Use the app to control the lights and sound. If there is a current sound from the motor, but the robot is not moving, there are 3 ways to resolve this:
- Batteries: The voltage provided by the batteries is insufficient. Some of the AA batteries may be too weak. Try replacing them with higher quality AA batteries. If you are using lithium batteries, try charging them first.
 - Mechanical issue: The Driving Wheel or Driven Wheel of the Q-dino may be too tight, preventing them from rotating properly. Solution: Try using the Wrench and Screwdriver in the kit to loosen the Lock Nut on the front wheels. Try spinning the wheels by hand to see if they can move freely.
 - The initial speed is too low: Due to friction and other reasons, we recommend that when programming you should set the robot speed to at least 45 to ensure that the robot can move.

5. When I use the app to try to make my robot move forward why does my robot move backward instead?

This may be caused by incorrect connection of the left and right motors. Try switching the connection of the two motors.

Notes & Safety

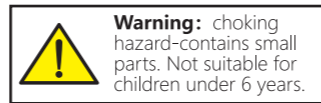
Warning:

- Please only use the kit with adult supervision and assistance.
- The kit contains small parts. Please keep the kit away from the reach of any child at the age of 3 or younger to prevent choking hazard.
- Please try to only use the kit on a dry and even floor in an indoor environment and avoid contact with any liquid.
- Please do not pull any wires inside the kit with force. Please replace any worn-out wires before use.

Notes:

- Batteries are not included in this kit. For better results, please use high-performance alkaline or NiMH rechargeable dry batteries. Please read the instructions on the batteries carefully before use.
- The batteries should be properly disposed after use and should not be thrown near a heat source or buried underground.
- When not using the robot for a prolonged period of time, disconnect the robot from the power source.
- Before turning on the power switch of the robot, check to ensure that all wires are connected correctly. Incorrect connections may damage the robot.
- Please ensure that the moving parts of the robot, such as the motors and steering gears, are unobstructed. Obstruction may cause a motor to overheat or even damage the motor.
- After operating the robot for a period of time, the screws may become loose. Please check and tighten them if necessary.
- When cleaning the robot, please first disconnect the robot from the power supply and then use a soft, dry cloth to clean the surface of the robot.

Q-dino FCC ID:2AOHLRB-00006
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Manufacturer: RoboBloq Co., Ltd. Made in China
Model No.: RB-00006
RB-00006A RB-00006B



RoHS COMPLIANT FC CE 
There no restrictions of use.
MADE IN CHINA

About Robobloq

Based in Shenzhen, China, Robobloq is a high tech pioneer in Edtech solution development. We are dedicated to providing integrated solutions including STEM learning tools, teaching materials, robot competitions and international exchanges for educators worldwide. Robobloq empowers kids and students to develop hands-on abilities and coding skills, bringing their innovative ideas to life.

