Keyestudio Electronic Parts DIY Kit For OTTO Robot Maker

KS0358

1 Summary:

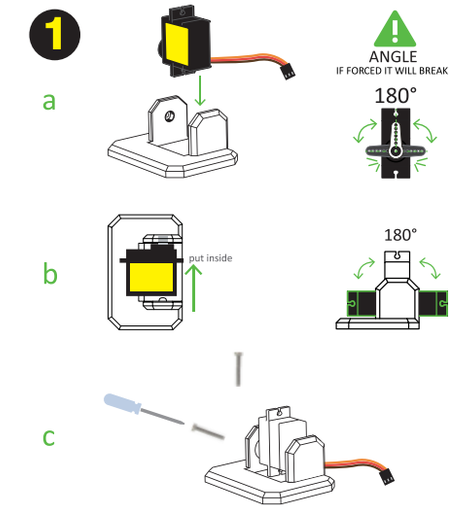
Otto is an interactive robot that anyone can make! It is completely open source, Arduino compatible and 3D printable.

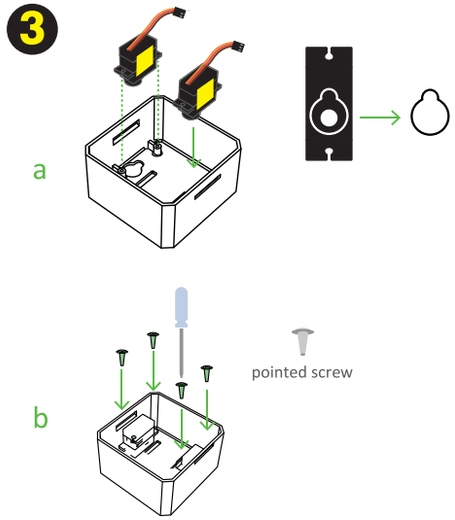
Otto is able to walk, dance, make sounds and avoid obstacles. His small body is in the assembled size, with simple structure. The shelf parts are designed using 3D printer, simple electronics connections (almost no welding required), and basic coding skills. Otto is designed using Autodesk 123D Design software. No need technical knowledge, perfect for beginners. You are able to modify it or even recreate them to make you own Otto robot and then share to the world!

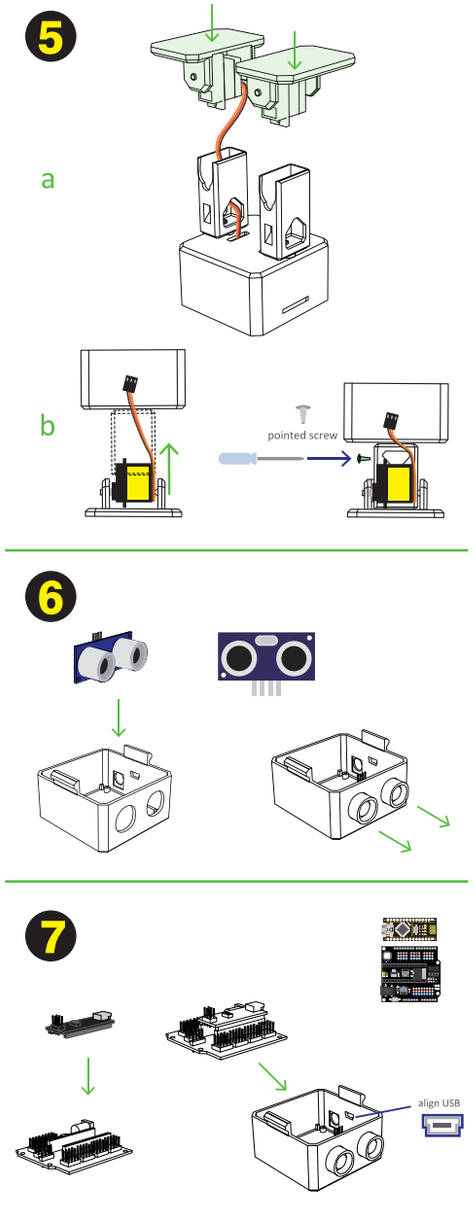
2 Component List:

1	1*NANO Shield	9	10* F- F Jumper Wire
2	1* HC-SR04 Sensor	10	1*Self-locking Push Switch
3	1*Bluetooth Module	11	2*M2*12MM Round -head Screw
4	4*Micro Servo 9G	12	2*M2 Nut
5	1*Passive Buzzer	13	4*M2X5MM Tapping Screw
6	2*200mm Black Connector Wire	14	1*4 AA Battery Case
7	1*USB Cable		
8	2*200mm Red Connector Wire		

3 Assembly Steps:







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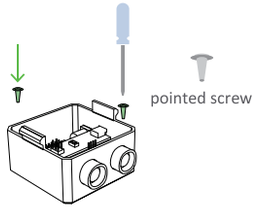
a



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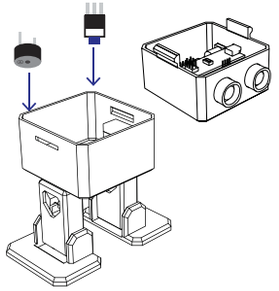

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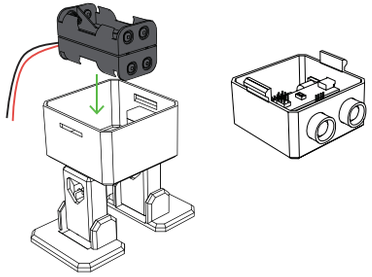
*cable colors may vary



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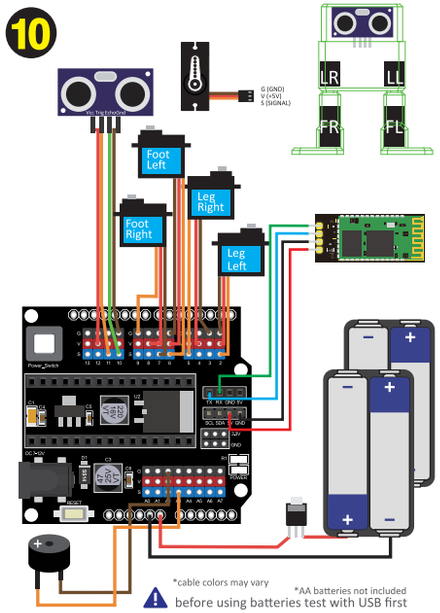

before using batteries test with USB first

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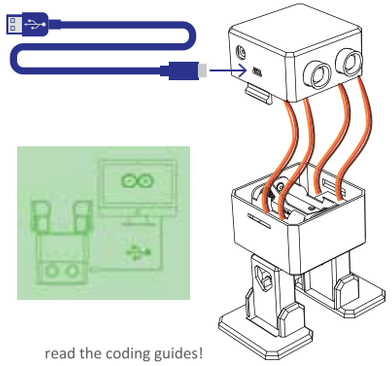
connect and power with USB and test servo motors before using any kind of batteries



read the coding guides!

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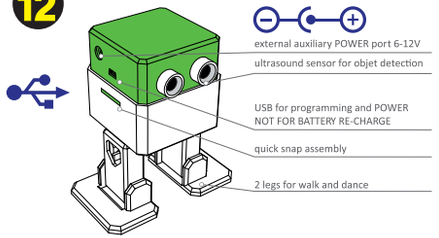
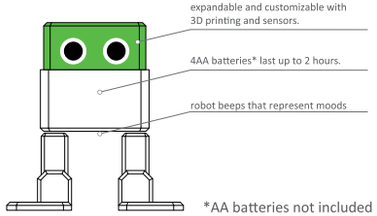




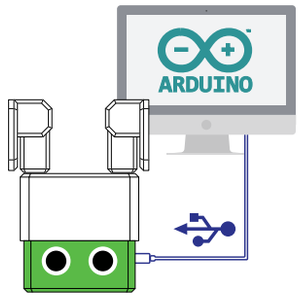
*AA batteries not included

Arduino Programming

For the coding part you will need to:

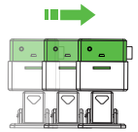
1. Download and install Arduino softwareIDE: https://www.arduino.cc/en/Main/Software
2. Copy all libraries to C:/Users/user/Documents/Arduino/ libraries (or wherever your library folder is installed)
3. Connect your Otto through USB (your computer should install the drivers)
4. Finally open OTTO_smooth_criminal.ino code and upload to your Arduino Nano for dancing Otto mode.
5. Try OTTO_avoid.ino for obstacle avoidance

More codes in https://github.com/OttoDIY/

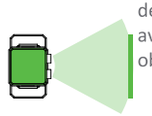


Otto is an interactive robot that anyone can make!

you will be able to build your own Otto in as little as one hour! easy to build and disassemble with a simple screwdriver.



walk & dance

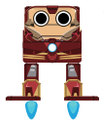


detect & avoid obstacles

easy to program

beeps & 8bit music

expand...



customize

4 More Resources

With this OTTO kit, you are able to build your own OTTO robot. You can program your otto robot to walk, dance, sing and more using Arduino software.
Note that the print parts are not included in this kit, but you are able to check more details in the PDF file provided.
More codes and connection diagram, please log on our official WIKI website.

You can enter product SKU to search for product Info. (http://www.keyestudio.com)

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Wiki

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