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mDrawBot Kit Four-In-One Drawbot Kit

mScara | mSpider | mEggBot | mCar

mCar



%mDrawBot is an advanced transformable drawing robot kit based on Makeblock platform. It can be assembled into 4 forms — mScara, mSpider, mEggBot and mCar. It also comes with a matched software named mDraw.



Construct Your Dreams

Quick Intro



Part List

1× Plastic Hinge Gasket

1× Spring 0.6×6×50 1× Threaded Shaft 4×39mm 1× Circle Shaft 4×80mm 2× Shaft Collar 4mm 5× Flange Bearing 4×8×3mm 1× Square Nut M4 3× Nylon Cap M4 2× Timing Belt 112MXL

1× Polyester Thread(8m)

10× Nylon Cable Tie 2×100

1× Rubber Bank

1× Cross&2.5mm HEX Screwdriver

1× HEX Key 1.5mm

1× Wrench 5mm&7mm

26× Screw M4×8

42× Screw M4×16

5× Screw M4×22

1× Screw M4×35





With too many parts contained in this product, please assemble the Drawbot as per the steps indicated in this instruction to avoid confusion. Pay especially attention to the mark of "O"," X". Make sure you are doing exactly as required by the diagram marked with "O", otherwise the parts may be broken and the robot may fail to work normally.

Diagram

Tip



Please assemble the robot in strict accordance with the following three requirements, Otherwise it will result in inaccuracy or unsatisfying performance.

Assembly Requirement

1.Make sure to tighten the screw and the nut.



2.Make sure all parts are placed evenly before tightening the screws.





3.Press downward the parts related to the shaft with force to eliminate the gap before tightening the screw M3x5.



Tools































http://learn.makeblock.cc/driver_installation/

Software & Related Details

Working With mDraw

mDraw is the software designed to work with the mDrawBot. It's required to download, install mDraw, and use it correctly in order to make your mDrawBot move.

- **1**. Visit <u>http://learn.makeblock.cc/mdrawbot/</u> to download mDraw and related specific instruction. Note: It's required to download the material mentioned above.
 - 2. It's strongly recommended that you should read the specific instruction before using the software.
 - 3. Here's the basic interface of mDraw.



(More details are included in the package downloaded from the URL mentiond on Step 1.)

mDraw is an open source project hosted on Github. Fork it here: https://github.com/Makeblock-official/mDrawBot/



FCC Information

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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 or more 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.

when the module is installed inside another device, the user manual of this device must contain below warning statements; 1. 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.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The devices must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product



Limited Warranty

This product is warranted against defects in materials and workmanship under normal use by the original purchaser for 90 days after the date of purchase from an authorized retailer. THERE ARE NO OTHER EXPRESS WARRANTIES.

This warranty does not cover: (a) damage or failure caused by or attributable to abuse, misuse, failure to follow instructions, improper installation or maintenance, alteration, accident, Acts of God (such as floods or lightning), or excess voltage or current; (b) improper or incorrectly performed repairs by non-authorized service facilities; (c) consumables such as fuses or batteries; (d) ordinary wear and tear or cosmetic damage; (e) transportation, shipping or insurance costs; (f) costs of product removal, installation, set-up service, adjustment or reinstallation; and (g) claims by persons other than the original purchaser.

Should a problem occur that is covered by this warranty, take the product and the original sales receipt as proof of purchase date to the place of purchase. The product, at the warrantor's option, unless otherwise provided by law: (a) be repaired without charge for parts and labor; (b) be replaced with the same or a comparable product; or (c) a refund of the purchase price will be provided. All replaced parts and products, and products on which a refund is made, become the property of the warrantor. New or reconditioned parts and products may be used in the performance of warranty

service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

All implied warranties, including the implied warranty of merchantability and, if applicable, the implied warranty of fitness for a particular purpose, shall expire on the expiration of the stated warranty period.

EXCEPT AS DESCRIBED ABOVE, THE WARRANTOR SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OF THE PRODUCT OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE AND ANY LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT AND ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF THE WARRANTOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Warnings

- Adult supervision and assistance are required.
- CHOKING HAZARD This product contains small parts and functional sharp points on components. Keep away from children under age 3.
- Read and follow all instructions in the user guide before using.
- Retain this user guide for future reference.

Battery Notes

- Use only fresh batteries of the required size and type. Do not mix old and new batteries, different
- types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities. • Dispose of batteries promptly and properly. Do not burn or bury them.
- If you do not plan to play with the robot for an extended period of time, remove the batteries.

Caution

- Do not insert the wires into telecommunication or network socket outlets.
- As an extra precaution, check this product regularly for signs of wear or damage.
- Ensure all wiring connections are correct before inserting batteries and switching on the product. Failure to do so may result in damage to components and the product.

• Ensure all wires are correctly connected to the battery terminals and other connectors. If the circuit does not work, make sure the plastic insulation of the wire is not obstructing the connection to the connector.

• When you have finished playing, remove the batteries and switch off the unit before you disconnect the wires. Do not apply any components or parts to the unit other than those provided with this kit.

• To prevent overheating and damage, do not short-circuit the battery terminals and connectors. Do not block or cover the motor or other moving parts.



