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BLOSSOMZ Doodling Robot Model Kit

4M Doodling Robot Model Kit Instruction Manual

Model: Doodling Robot Model Kit

1. Introduction

This manual provides instructions for assembling, operating, and maintaining your 4M Doodling Robot Model Kit. The Doodling Robot is a fun and educational science kit designed to introduce users to basic robotics and mechanics. Once assembled, the robot uses vibration and spin to create unique doodle patterns.
Recommended Age: 8 years and up.
Battery Requirement: 1 x AA battery (not included).

2. Parts List

Before beginning assembly, ensure all parts are present. Refer to the diagram below for identification.



Figure 1: Components of the 4M Doodling Robot Model Kit. This image displays the various parts included in the kit, such as the motor, battery casing, plastic body parts, and pens, laid out for assembly.

- Motor with eccentric weight
- Battery casing with cover
- Plastic body parts (base, top cover, leg supports)
- 3 x Pen holders
- 3 x Felt-tip pens
- Screws and nuts
- Wires
- Adhesive pads
- Instruction leaflet (this manual)

3. Assembly Instructions

Follow these steps carefully to assemble your Doodling Robot.

1. **Prepare the Base:** Attach the three leg supports to the main plastic base using the provided screws. Ensure they are securely fastened.
2. **Install the Motor:** Secure the motor onto the designated spot on the base. The eccentric weight should be free to rotate.
3. **Connect Wiring:** Connect the motor wires to the battery casing terminals. Pay attention to polarity if indicated (usually red to positive, black to negative).
4. **Insert Battery:** Open the battery casing, insert one AA battery (not included) according to the polarity markings, and close the cover.
5. **Attach Pen Holders:** Securely attach the three pen holders to the leg supports. These should be positioned to allow pens to touch the drawing surface.
6. **Insert Pens:** Place the felt-tip pens into the pen holders. Adjust their height so the tips lightly touch a flat surface when the robot is standing.
7. **Secure Top Cover:** Place the top plastic cover over the assembled components and secure it with any remaining screws or clips.



Figure 2: A partially assembled Doodling Robot, showing the motor and battery casing connected to the base. This illustrates the internal wiring and component placement before the top cover is attached.

4. Operating Instructions

Once assembled, your Doodling Robot is ready for use.

1. **Prepare Drawing Surface:** Place a large sheet of paper or cardboard on a flat, stable surface.
2. **Position the Robot:** Place the Doodling Robot on the center of your drawing surface. Ensure the pen tips are touching the paper.
3. **Activate the Robot:** Locate the ON/OFF switch on the battery casing or robot body. Flip the switch to the "ON" position.
4. **Observe Doodling:** The motor will start to vibrate, causing the robot to move randomly and the pens to draw patterns.
5. **Experiment:** Try adjusting the pen heights or the angle of the robot's legs (if adjustable) to create different patterns.
6. **Deactivate the Robot:** To stop the robot, flip the ON/OFF switch to the "OFF" position.



Figure 3: The 4M Doodling Robot in action, demonstrating its movement and the patterns it creates on a sheet of paper. This shows the robot's pens making contact with the surface.

5. Maintenance

- **Battery Replacement:** When the robot's movement becomes sluggish, replace the AA battery. Always use a fresh battery.
- **Pen Replacement:** If the felt-tip pens dry out or run out of ink, replace them with standard felt-tip pens of similar size.
- **Cleaning:** Wipe the robot's plastic parts with a dry or slightly damp cloth. Do not immerse the robot in water.
- **Storage:** Store the robot in a cool, dry place away from direct sunlight. Remove the battery if storing for extended periods to prevent leakage.

6. Troubleshooting

Problem	Possible Cause	Solution
Robot does not move.	• Battery is dead or incorrectly inserted. • Wires are loose or disconnected. • ON/OFF switch is in the "OFF" position.	• Replace battery or check polarity. • Check all wire connections. • Flip switch to "ON".
Pens do not draw.	• Pens are dry. • Pens are not touching the paper.	• Replace pens. • Adjust pen height in holders.
Robot moves erratically or falls over.	• Uneven surface. • Loose leg supports.	• Use on a flat, stable surface. • Tighten leg support screws.

7. Specifications

- **Model:** Doodling Robot Model Kit
- **Brand:** BLOSSOMZ (4M)
- **Power Source:** 1 x AA Battery (not included)
- **Recommended Age:** 8 years and up
- **Approximate Dimensions (Assembled):** 5 x 4 x 3 inches (Package Dimensions) -*Note: Actual assembled dimensions may vary slightly.*
- **Approximate Weight (Assembled):** 1 pound (Item Weight)

8. Warranty and Support

This product is designed for educational and recreational purposes. For any issues or inquiries, please refer to the retailer or manufacturer's customer support channels. Keep your purchase receipt as proof of purchase.
Note: Specific warranty details may vary by region and retailer.

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