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Mould King 15066

Mould King Robot Dog Building Set (Model 15066) User Manual

Comprehensive instructions for assembly, operation, and maintenance.

1. Introduction

Welcome to the Mould King Robot Dog Building Set user manual. This guide provides detailed instructions to help you assemble, operate, and maintain your Model 15066 Robot Dog. This set offers an engaging STEM building experience, culminating in a remote-controlled mechanical canine capable of various movements.



Image 1.1: The assembled Mould King Robot Dog, Model 15066. This image displays the robot dog in a dynamic pose, highlighting its mechanical design and yellow and black color scheme.

2. Safety Information

Please read all safety instructions before assembly and operation to prevent injury or damage.

- **Small Parts Warning:** This set contains small parts and is not suitable for children under 3 years due to choking hazards.
- **Age Recommendation:** Recommended for ages 8 and up. Adult supervision is advised during assembly and initial operation.
- **Battery Safety:**
  - Do not mix old and new batteries.
  - Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries.
  - Remove batteries from the remote control if the toy is not used for an extended period.
  - Rechargeable battery in the robot should only be charged under adult supervision.

    - Use only the provided USB charging cable for the robot's internal battery.
- **Electrical Components:** Keep electronic components away from water and extreme temperatures.
- **Operation Environment:** Operate the robot on flat, clear surfaces to prevent damage or falls.

3. Package Contents

Verify that all components are present before beginning assembly:

- 936 Building Pieces (various shapes and sizes)
- 1 x Remote Control (requires 2 AAA batteries, not included)
- 1 x USB Charging Cable
- 1 x Instruction Manual (paper version)
- Internal Rechargeable Battery (pre-installed in robot's main unit)

4. Assembly Instructions

The Mould King Robot Dog is designed for an engaging building experience. Follow the detailed step-by-step instructions provided in the included paper manual.

1. **Unpack Components:** Carefully open all bags containing building pieces. It is recommended to sort pieces by color or type to facilitate assembly.
2. **Follow Paper Manual:** Refer to the dedicated paper instruction manual for precise, visual, step-by-step guidance. Each step illustrates which pieces to use and where to place them.
3. **Connect Electronic Modules:** Pay close attention when connecting the internal electronic modules and wires as indicated in the manual. Ensure connections are secure.
4. **Test Functionality:** After completing major sections (e.g., legs, body), you may perform preliminary tests if instructed by the manual to ensure mechanical parts move freely.
5. **Final Assembly:** Complete the remaining steps to fully assemble your robot dog.



Image 4.1: A child engaged in the assembly process of the Mould King Robot Dog. This image illustrates the hands-on nature of building the robot.



Image 4.2: Overview of the Mould King Robot Dog building kit, showing various components and the partially assembled robot.

5. Setup

5.1 Robot Battery Charging

The robot dog is equipped with a built-in rechargeable battery.

1. Locate the charging port on the robot (refer to the paper manual for exact location).
2. Connect the small end of the USB charging cable to the robot's charging port.
3. Connect the larger end of the USB cable to a standard USB power adapter (not included) or a computer USB port.
4. The charging indicator light (if present) will show the charging status. Refer to the paper manual for light indications (e.g., red for charging, green for fully charged).
5. Allow sufficient time for a full charge before first use (typically 2-3 hours).

5.2 Remote Control Battery Installation

The remote control requires 2 AAA batteries (not included).

1. Locate the battery compartment on the back of the remote control.
2. Using a small screwdriver (not included), open the battery compartment cover.
3. Insert 2 AAA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Replace the battery compartment cover and secure it with the screw.

6. Operating Instructions

6.1 Powering On/Off

- **Robot:** Locate the power switch on the robot (refer to the paper manual). Slide it to the "ON" position to power on. Slide to "OFF" to power off.

- **Remote Control:** The remote control typically powers on automatically when a button is pressed or has a dedicated power button.

6.2 Remote Control Operation

The 2.4GHz remote control allows for responsive command of your robot dog within a range of approximately 65 feet (20 meters).

- **Forward/Backward:** Use the designated joystick or buttons to move the robot dog forward or backward.
- **Turn Left/Right:** Use the designated joystick or buttons to steer the robot dog left or right.
- **360-Degree Rotation:** Specific controls may allow the robot to perform a full 360-degree rotation.
- **Special Functions:** Refer to the paper manual for any additional buttons or combinations that trigger specific movements or actions.

6.3 App Control (If Applicable)

This robot dog may also be controlled via a dedicated mobile application. Refer to the paper manual for instructions on downloading and connecting to the app.

- **App Download:** Scan the QR code in the paper manual or search for the specified app name in your device's app store.
- **Connection:** Follow the in-app instructions to connect your mobile device to the robot dog via Bluetooth or other wireless protocols.
- **App Interface:** The app provides an intuitive interface for controlling movements and potentially programming sequences.



Image 6.1: The Mould King Robot Dog being controlled by both a mobile application on a tablet and a physical remote control.

6.4 Robot Movements

The robot dog is designed to mimic realistic canine movements, including walking, turning, and potentially other programmed actions.

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Video 6.1: Official product video demonstrating the Mould King Robot Dog's movements and features. This video showcases the robot dog walking and interacting.

7. Maintenance

- **Cleaning:** Use a soft, dry cloth to wipe down the robot and remote control. Do not use water, solvents, or cleaning agents, as they may damage electronic components.
- **Storage:** When not in use, store the robot dog and its accessories in a cool, dry place, away from direct sunlight and extreme temperatures.

- **Battery Care:** If storing for an extended period, ensure the robot's battery is partially charged (not fully depleted or fully charged) and remove batteries from the remote control.
- **Inspection:** Periodically check for any loose parts or connections. Re-secure any loose building blocks.

8. Troubleshooting

Problem	Possible Cause	Solution
Robot does not turn on.	Battery is depleted. Power switch is off.	Charge the robot's battery. Ensure the power switch is in the "ON" position.
Robot does not respond to remote control.	Remote control batteries are low/dead. Robot and remote not paired. Out of range.	Replace AAA batteries in the remote. Ensure robot and remote are powered on and within range. Refer to manual for pairing instructions if needed.
Robot moves slowly or erratically.	Low robot battery. Obstruction in gears/joints.	Recharge the robot's battery. Check for any foreign objects or loose parts obstructing movement.
App control not connecting.	Bluetooth/Wi-Fi off. Robot not in pairing mode. App issues.	Ensure device's wireless is on. Power cycle robot. Restart app. Check app permissions.

9. Specifications

- **Brand:** Mould King
- **Model Name:** Robot Dog
- **Model Number:** 15066
- **Number of Pieces:** 936
- **Recommended Age:** 8 years and up
- **Material:** Plastic
- **Robot Power:** Built-in Rechargeable Lithium Metal Battery (included)
- **Remote Control Power:** 2 x AAA Batteries (not included)
- **Remote Control Frequency:** 2.4GHz
- **Remote Control Range:** Approximately 65 feet (20 meters)
- **Item Dimensions (L x W x H):** Approximately 13.27 x 7.28 x 7.6 inches (33.7 x 18.5 x 19.3 cm)
- **Educational Objective:** Construction Skills, STEM Learning



Image 9.1: The Mould King Robot Dog displayed with its key dimensions for reference.

10. Warranty and Support

Mould King products are manufactured with quality and customer satisfaction in mind. For warranty information, technical support, or assistance with missing/damaged parts, please contact Mould King customer service through their official website or the retailer where the product was purchased.

Please retain your proof of purchase for warranty claims.

Mould King Official Website: www.mouldking.com (Note: This is a placeholder link, please verify the actual official website for Mould King if available, or remove if not applicable).

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