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› Mould King W12 Engine Model Kit (Model WX10230) - Instruction Manual

## Mould King WX10230

# Mould King W12 Engine Model Kit (Model WX10230)

Instruction Manual

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## 1. INTRODUCTION

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This instruction manual provides detailed guidance for assembling, operating, and maintaining your Mould King W12 Engine Model Kit (Model WX10230). This 871-piece building set allows you to construct a realistic 12-cylinder engine model, designed to replicate the mechanical artistry of a luxury car engine. The kit includes components for dynamic simulation, offering an engaging educational experience in engineering principles.

Please read this manual thoroughly before beginning assembly to ensure correct procedures and safe handling of all components.

## 2. SAFETY INFORMATION

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### Important Safety Warnings:

- **Age Recommendation:** This product is intended for individuals aged 14 years and older. Adult supervision is recommended for younger users.
- **Choking Hazard:** The kit contains small parts. Keep out of reach of children under 3 years of age to prevent choking.
- **Battery Safety:** The motor requires 6 AA batteries (not included). Ensure batteries are inserted with correct polarity (+/-). Do not mix old and new batteries, or different types of batteries. Remove batteries if the model will not be used for an extended period. Do not attempt to recharge non-rechargeable batteries.
- **Electrical Components:** Handle the motor and battery box with care. Do not expose to water or extreme temperatures.
- **Assembly:** Follow the instructions carefully. Do not force parts together, as this may cause damage.

## 3. PACKAGE CONTENTS

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Verify that all components are present before starting assembly. The Mould King W12 Engine Model Kit includes:

- 871+ precision ABS building parts
- 1 x L motor

- 1 x Battery box (requires 6 AA batteries, not included)
- 1 x Instruction Manual (this document)

If any parts are missing or damaged, please contact Mould King customer support.

## **4. SETUP & ASSEMBLY**

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The assembly process for the Mould King W12 Engine Model Kit is designed to be step-by-step, guided by the included 3D color instructions. Each bag of parts is individually numbered to correspond with the assembly stages.

### **4.1. Preparation**

- Clear a well-lit, spacious work area.
- Organize the numbered bags of parts. Do not open all bags at once to avoid mixing components.
- Have 6 AA batteries ready for the motor.

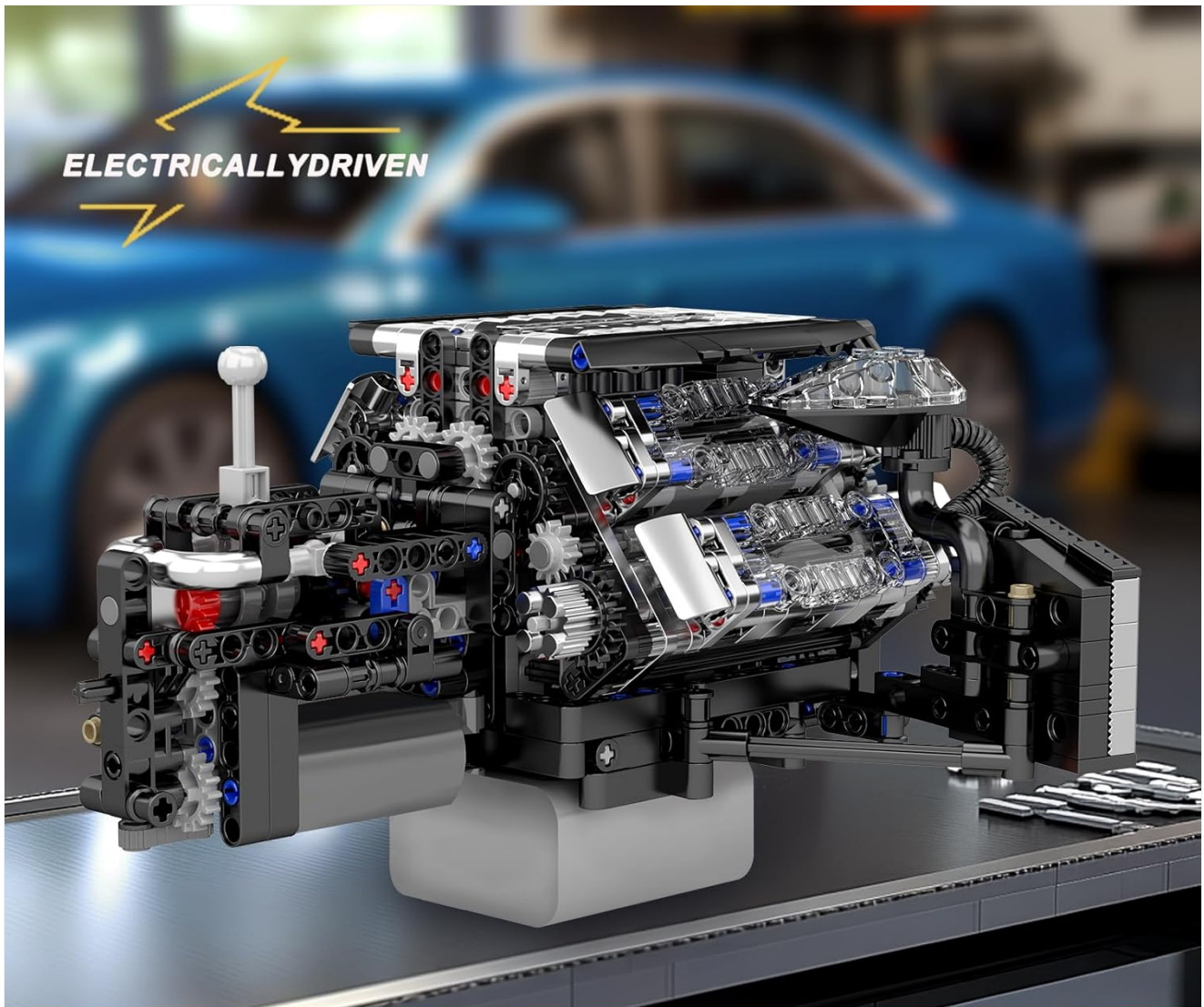
### **4.2. Step-by-Step Assembly**

Follow the detailed 3D color instructions provided in the separate manual. Each step illustrates the parts required and their placement. Pay close attention to the orientation of pieces and ensure they are securely connected.



**EASY TO ASSEMBLE**

Image: Two individuals assembling the Mould King W12 Engine Model Kit, demonstrating ease of assembly.

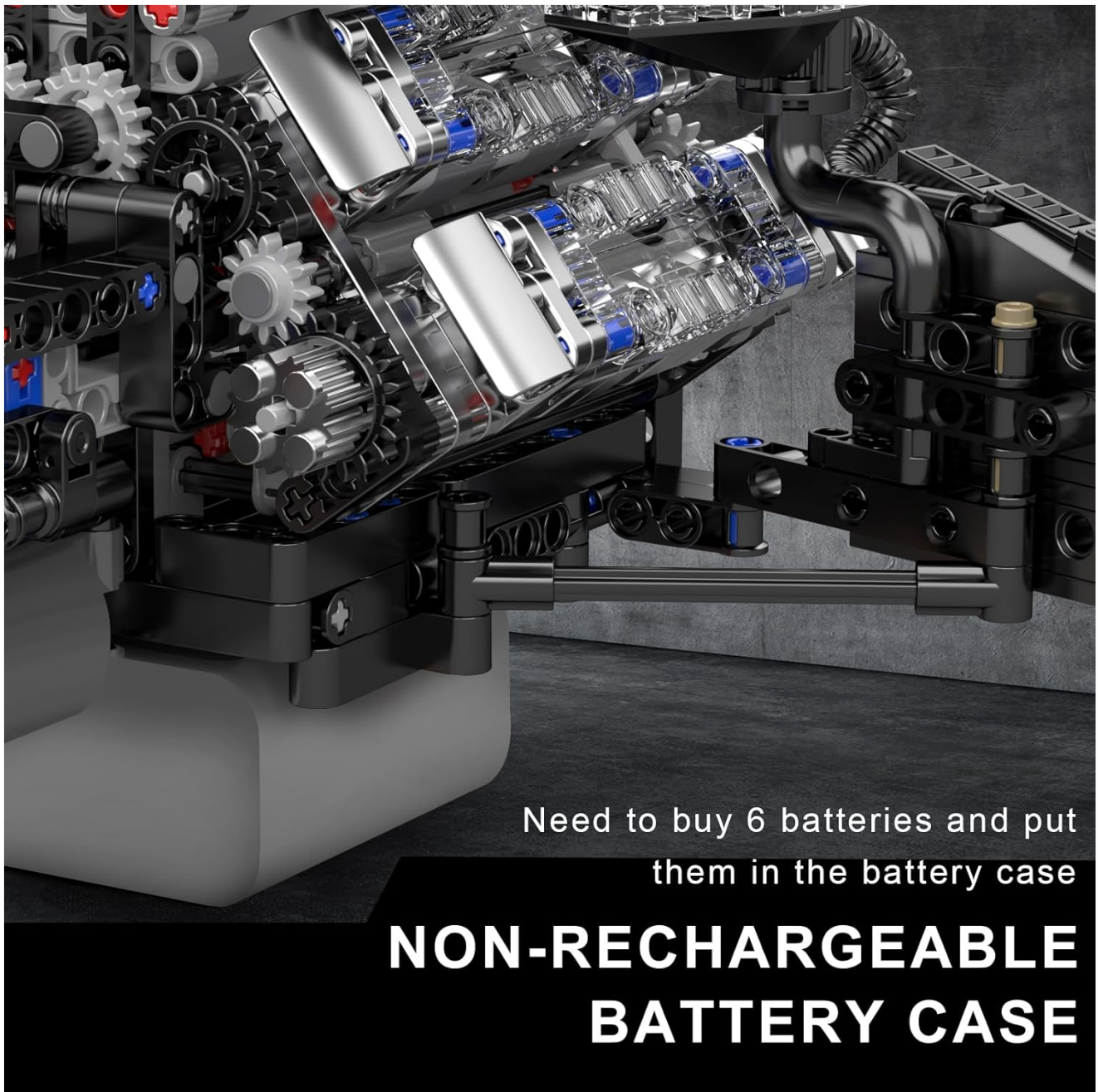


## BUILD YOUR OWN A8 W12 ENGINE

Image: Assembled Mould King W12 Engine Model Kit with a blue car in the background, highlighting the 'Build Your Own A8 W12 Engine' aspect.

### 4.3. Battery Installation

1. Locate the battery box component.
2. Open the battery compartment cover.
3. Insert 6 AA batteries, ensuring correct polarity as indicated inside the compartment.
4. Close the battery compartment cover securely.



Need to buy 6 batteries and put them in the battery case

## NON-RECHARGEABLE BATTERY CASE

Image: Close-up of the battery case area on the Mould King W12 Engine Model Kit, indicating the need for 6 non-rechargeable batteries.

### 4.4. Assembly Overview Video

Your browser does not support the video tag.

Video: Official video demonstrating the assembly and dynamic operation of the Mould King W12 Engine Model Kit, showcasing its mechanical movements and detailed design.

## 5. OPERATING INSTRUCTIONS

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Once fully assembled and batteries are installed, your Mould King W12 Engine Model Kit is ready for operation.

### 5.1. Activating the Engine

1. Ensure the model is placed on a stable, flat surface.
2. Locate the power switch on the battery box.
3. Flip the switch to the 'ON' position. The L motor will activate, driving the internal mechanisms.

## 5.2. Dynamic Simulation

The model is designed to dynamically simulate a real W12 engine. Observe the following movements:

- **Piston Movement:** The pistons will move up and down within the transparent cylinder heads.
- **Crankshaft Rotation:** The crankshaft will rotate, linked to the piston movement.
- **Gear System:** Various gears will engage and rotate, demonstrating power transmission.
- **Turbocharging Simulation:** The transparent cylinder head design allows for observation of the simulated turbocharging and multi-cylinder coordination process.



Image: Mould King W12 Engine Model Kit in a dynamic simulated model setting, highlighting its operational features.



Image: Detailed view of the Mould King W12 Engine Model Kit's internal gears and pistons in motion.

## 6. MAINTENANCE

Proper maintenance will ensure the longevity and optimal performance of your Mould King W12 Engine Model Kit.

### 6.1. Cleaning

- Use a soft, dry cloth to gently wipe away dust and debris from the model's surface.
- For hard-to-reach areas, a soft brush or compressed air can be used.
- Avoid using harsh chemicals or abrasive cleaners, as these can damage the plastic components.

## 6.2. Storage

- Store the model in a cool, dry place away from direct sunlight and extreme temperatures.
- If storing for an extended period, remove the batteries from the battery box to prevent leakage.

## 7. TROUBLESHOOTING

If you encounter issues with your Mould King W12 Engine Model Kit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Motor does not run.	Batteries are dead or incorrectly installed. Power switch is off.	Check battery polarity and replace if necessary. Ensure the power switch on the battery box is in the 'ON' position.
Parts do not fit together.	Incorrect part or orientation.	Refer to the instruction manual to verify the correct part and its orientation. Do not force parts.
Model's moving parts are stiff or jammed.	Misaligned gears or components.	Carefully inspect the moving parts for any obstructions or misalignments. Re-check the assembly steps for the affected section.
Missing or damaged parts.	Manufacturing defect or oversight.	Contact Mould King customer support with details of the missing/damaged part and your purchase information.

If the problem persists after attempting these solutions, please contact customer support for further assistance.

## 8. SPECIFICATIONS

Feature	Detail
Brand	Mould King
Model Name	WX10230 W12 Engine
Model Number	WX10230
UPC	705736379115
Number of Pieces	871
Material Type	Plastic
Item Dimensions (L x W x H)	10 x 8.86 x 5.2 inches (25.4 cm x 22.5 cm x 13.2 cm)
Manufacturer Minimum Age	14 years (168 months)
Power Source	Battery (6 AA batteries required, not included)
Operation Mode	Manual (assembly), Battery Operated (dynamic function)
Educational Objective	Creative Thinking, Motor Skills, Engineering Principles

## 9. WARRANTY & SUPPORT

Mould King products are manufactured with quality and precision. For specific warranty information regarding your W12

Engine Model Kit, please refer to the packaging or contact Mould King directly.

## 9.1. Customer Support

If you have any questions, require assistance with assembly, or need to report missing/damaged parts, please contact Mould King customer support through their official channels. You can often find contact information on the product packaging or by visiting the official Mould King store on Amazon:

**Mould King Store:** Visit the Mould King Store on Amazon

Please have your model number (WX10230) and purchase details ready when contacting support.