

Mould King 10205

Mould King 10205 V12 Engine Model Building Kit Instruction Manual

Model: 10205 | Brand: Mould King

1. INTRODUCTION

Thank you for choosing the Mould King 10205 V12 Engine Model Building Kit. This kit allows you to construct a detailed and functional V12 engine model using 733 building block pieces. Designed for enthusiasts aged 14 and above, this model replicates the dynamic principles of a V12 engine, complete with moving pistons and gears, powered by an electric motor.

This manual provides essential information for assembly, operation, maintenance, and troubleshooting to ensure a rewarding building and operating experience.

2. SAFETY INFORMATION

- **Age Recommendation:** This product is recommended for individuals aged 14 years and older due to small parts and complex assembly.
- **Small Parts Warning:** The kit contains small parts which may pose a choking hazard for young children. Keep out of reach of children under 3 years old.
- **Battery Safety:** The model requires 6 AA batteries (not included) for operation. 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.
- **Assembly Environment:** Assemble the model on a clean, flat, and well-lit surface to prevent loss of small pieces.

3. PACKAGE CONTENTS

Please verify that all components are present before beginning assembly:

- 733 Building Block Pieces
- 1 Electric Motor
- 1 Battery Box (requires 6 AA batteries, not included)
- 1 Instruction Manual
- 1 Sticker Sheet

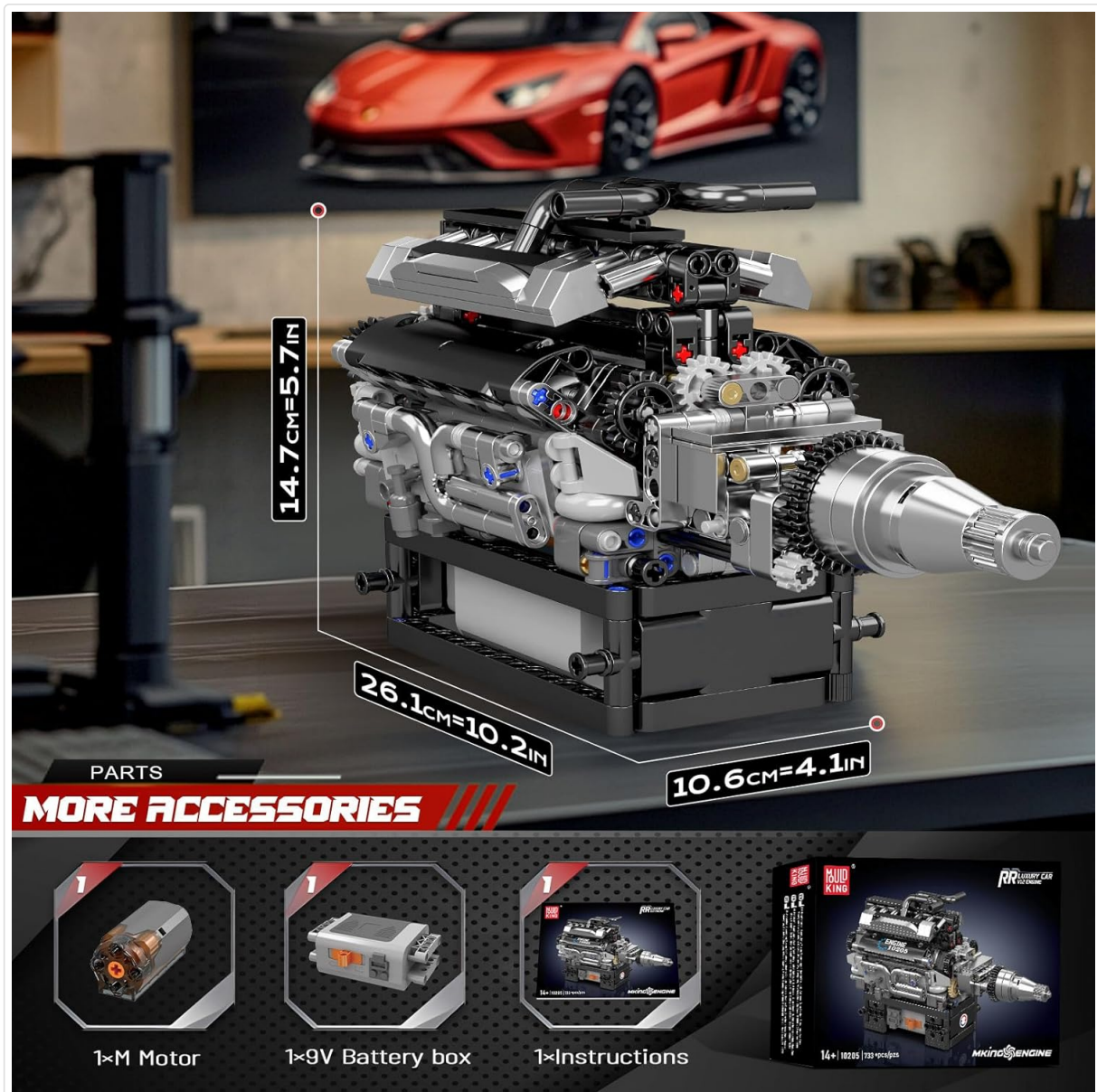


Figure 3.1: Included accessories and model dimensions.

4. ASSEMBLY INSTRUCTIONS

Follow the detailed, step-by-step instructions provided in the included paper manual. The manual is designed to guide you through the construction process, ensuring correct placement of each of the 733 pieces.

4.1 General Assembly Tips

- **Organize Pieces:** Sort pieces by color and type before starting to simplify the building process.
- **Follow Steps Sequentially:** Do not skip steps. Each step builds upon the previous one.
- **Check Connections:** Ensure all blocks are firmly connected to prevent the model from falling apart.

- **Refer to Images:** Use the illustrations in the manual to confirm piece orientation and placement.

4.2 Key Assembly Stages

The assembly process involves constructing the engine block, crankshaft, pistons, camshafts, and the external casing. Pay close attention to the gear mechanisms and the integration of the electric motor and battery box.



Figure 4.1: The Mould King 10205 V12 Engine Model Kit packaging and assembled model.

V12 ENGINE BUILDING BLOCKS SETS

RR sports car V12 engine and transmission model -1:1 precision kit

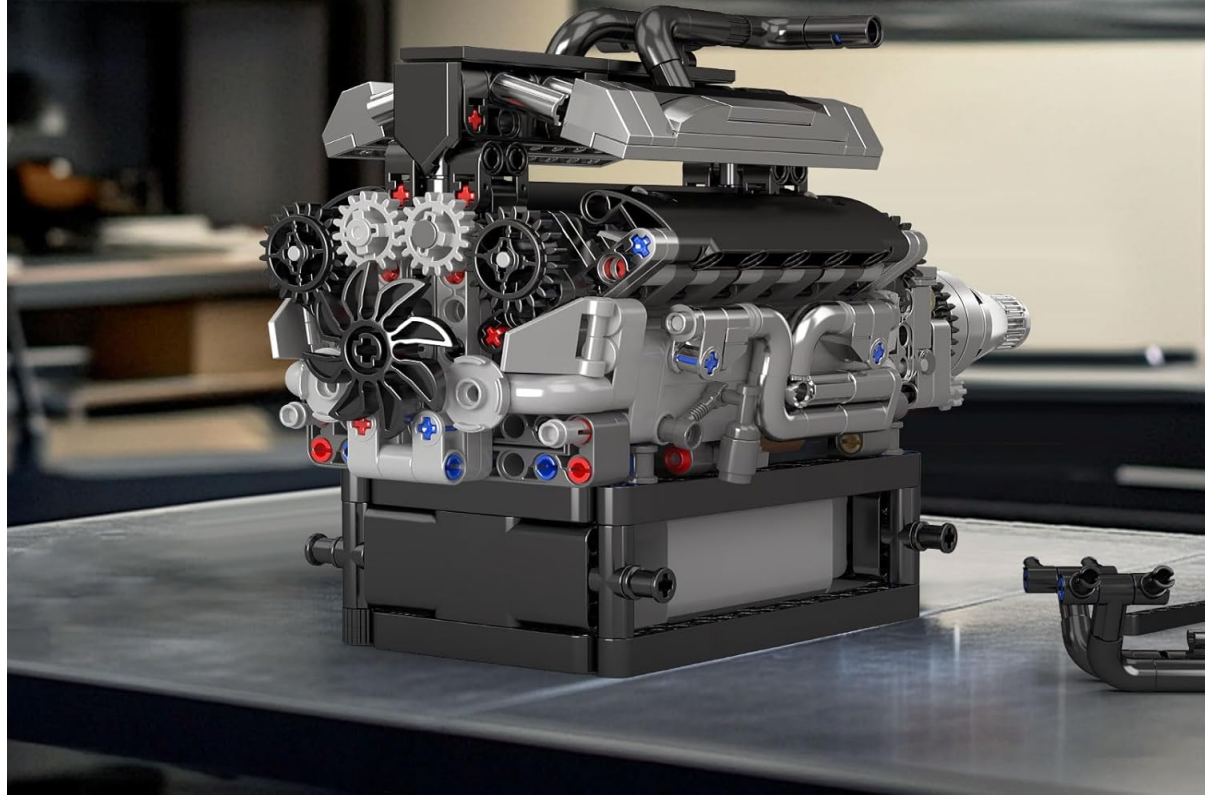


Figure 4.2: Detailed view of the assembled V12 engine model.

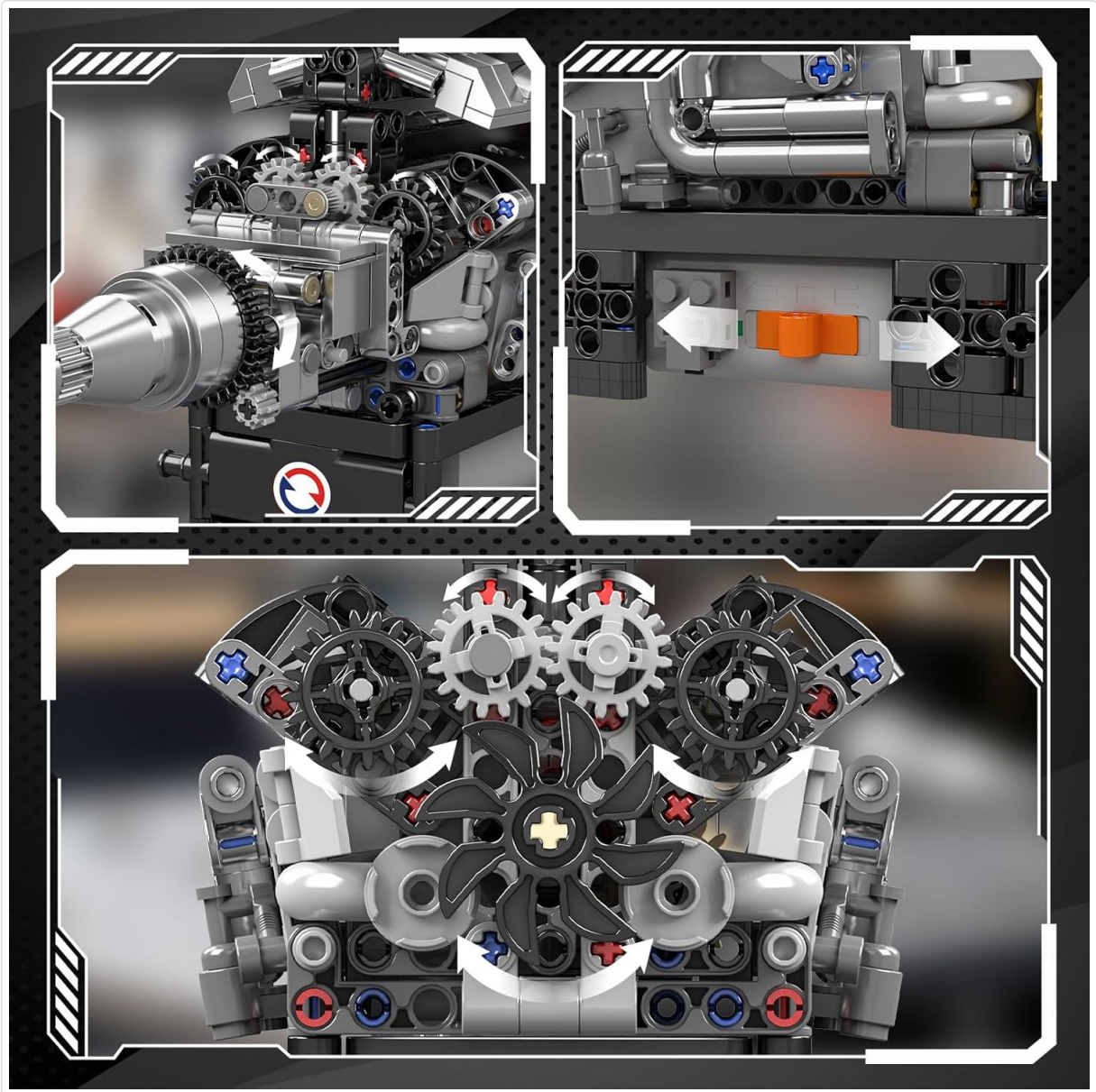


Figure 4.3: Close-up of the internal gears and battery box switch.



Figure 4.4: The completed V12 engine model, emphasizing the total piece count.

4.3 Assembly Demonstration Video

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Video 4.1: A demonstration of the assembled Mould King 10205 V12 Engine Model in operation, showcasing its moving parts and overall design.

5. OPERATING INSTRUCTIONS

5.1 Battery Installation

1. Locate the battery box integrated into the base of the engine model.
2. Carefully open the battery compartment cover.
3. Insert 6 new AA batteries, ensuring correct polarity as indicated inside the compartment.
4. Close the battery compartment cover securely.

5.2 Powering On/Off

- Once batteries are installed, locate the power switch on the side of the battery box (refer to Figure 4.3).
- Slide the switch to the 'ON' position to activate the motor. The engine's internal mechanisms, including

pistons and gears, will begin to move.

- Slide the switch to the 'OFF' position to stop the motor and conserve battery life.

5.3 Observing Engine Function

The model is designed to demonstrate the basic mechanical operation of a V12 engine. Observe the synchronized movement of the gears and the simulated piston action. While some internal components are covered for structural integrity, the visible gears and fan provide a clear indication of the engine's dynamic function.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to gently wipe dust from the model. Avoid using water or cleaning solutions, as they may damage the electronic components or the plastic blocks.
- **Storage:** Store the model in a cool, dry place away from direct sunlight and extreme temperatures to prevent material degradation.
- **Battery Replacement:** Replace all 6 AA batteries when the motor's speed decreases or stops functioning. Always replace with new, identical batteries.
- **Component Check:** Periodically check for any loose or detached pieces and reattach them firmly.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Motor does not run.	Batteries are dead or incorrectly installed. Power switch is off. Loose connection to motor.	Check battery polarity and replace if necessary. Ensure power switch is in 'ON' position. Verify motor connection.
Engine runs slowly or inconsistently.	Low battery power. Gears are obstructed or misaligned.	Replace batteries. Inspect visible gears for obstructions or incorrect assembly. Refer to manual for gear alignment.
Pieces fall off during operation.	Pieces not firmly pressed together during assembly.	Reattach loose pieces, ensuring a firm connection. Review relevant assembly steps in the manual.
Difficulty during assembly.	Complex step or unclear instruction.	Carefully re-read the instruction manual for the specific step. Ensure all previous steps are correctly completed. Contact customer support if issues persist.

8. SPECIFICATIONS

- **Model Number:** 10205 (WX10205-GANGYLCABF)
- **Number of Pieces:** 733
- **Recommended Age:** 14 years and up
- **Power Source:** 1 Electric Motor, 1 Battery Box (requires 6 AA batteries, not included)
- **Assembled Dimensions (approx.):** 10.2 inches (L) x 4.1 inches (W) x 5.7 inches (H) / 26.1 cm (L) x 10.6 cm (W) x 14.7 cm (H)

- **Item Weight:** 1.52 pounds
- **Material:** ABS Plastic

9. WARRANTY AND SUPPORT

Mould King is committed to providing high-quality products. If you encounter any issues with your V12 Engine Model Building Kit, such as missing parts or manufacturing defects, please contact Mould King customer support. Please retain your proof of purchase for warranty claims.

For further assistance, please visit the official Mould King store or contact their customer service department through the retailer where the product was purchased.