



Manuals.plus /

› Mould King /

› Mould King V12 Engine Building Set 10169 Instruction Manual

Mould King 10169

Mould King V12 Engine Building Set 10169 Instruction Manual

Model: 10169

This manual provides detailed instructions for the assembly, operation, and maintenance of your Mould King V12 Engine Building Set.

1. INTRODUCTION

Thank you for choosing the Mould King V12 Engine Building Set 10169. This kit offers an engaging and educational building experience, culminating in a functional V12 engine model. Designed for builders aged 14 and above, it accurately simulates piston motion and drivetrain operation, providing insight into mechanical engineering principles.



Image 1.1: The Mould King V12 Engine Building Set 10169, showing the assembled model and its packaging.

2. SAFETY INFORMATION

- This product contains small parts and is not suitable for children under 3 years of age due to choking hazards.
- Recommended age for assembly is 14 years and up.
- Always follow the assembly instructions carefully to prevent injury or damage to the model.
- Keep the model away from direct heat sources or open flames.
- Do not attempt to modify the electrical components or motor.

3. PACKAGE CONTENTS

The Mould King V12 Engine Building Set 10169 includes all necessary components for assembly. Please verify all parts are present before beginning construction.

- 3472 building pieces
- Detailed color instruction manual

- Electric motor for operation
- Protective packaging



Image 3.1: An illustration highlighting the 3472 pieces included in the building set.

4. ASSEMBLY INSTRUCTIONS

Follow the step-by-step instructions provided in the included color manual. Organize your pieces by type and size to facilitate the building process. The assembly process is designed to develop mechanical understanding.

4.1 Key Engine Components

Familiarize yourself with the main components of the V12 engine model before or during assembly.



Image 4.1: Diagram illustrating and labeling the Piston, Intake manifold, Spark Plug, Timing chain, and Exhaust manifold within the V12 engine model.

The detailed color manual will guide you through connecting each part, ensuring correct placement of elements like the timing chain and piston mechanisms.

5. OPERATING INSTRUCTIONS

Once fully assembled, your Mould King V12 Engine Model can be operated to demonstrate its mechanical functions. The model features a motor and a 4-speed gear system.

5.1 Powering On and Speed Control

- Locate the engine switch to activate the motor.
- Use the power joystick to adjust the gear system. The model supports low, medium, high, and hyper speed settings.
- Observe the rotatable fan blades and the movement of the engine cylinders as the model operates.

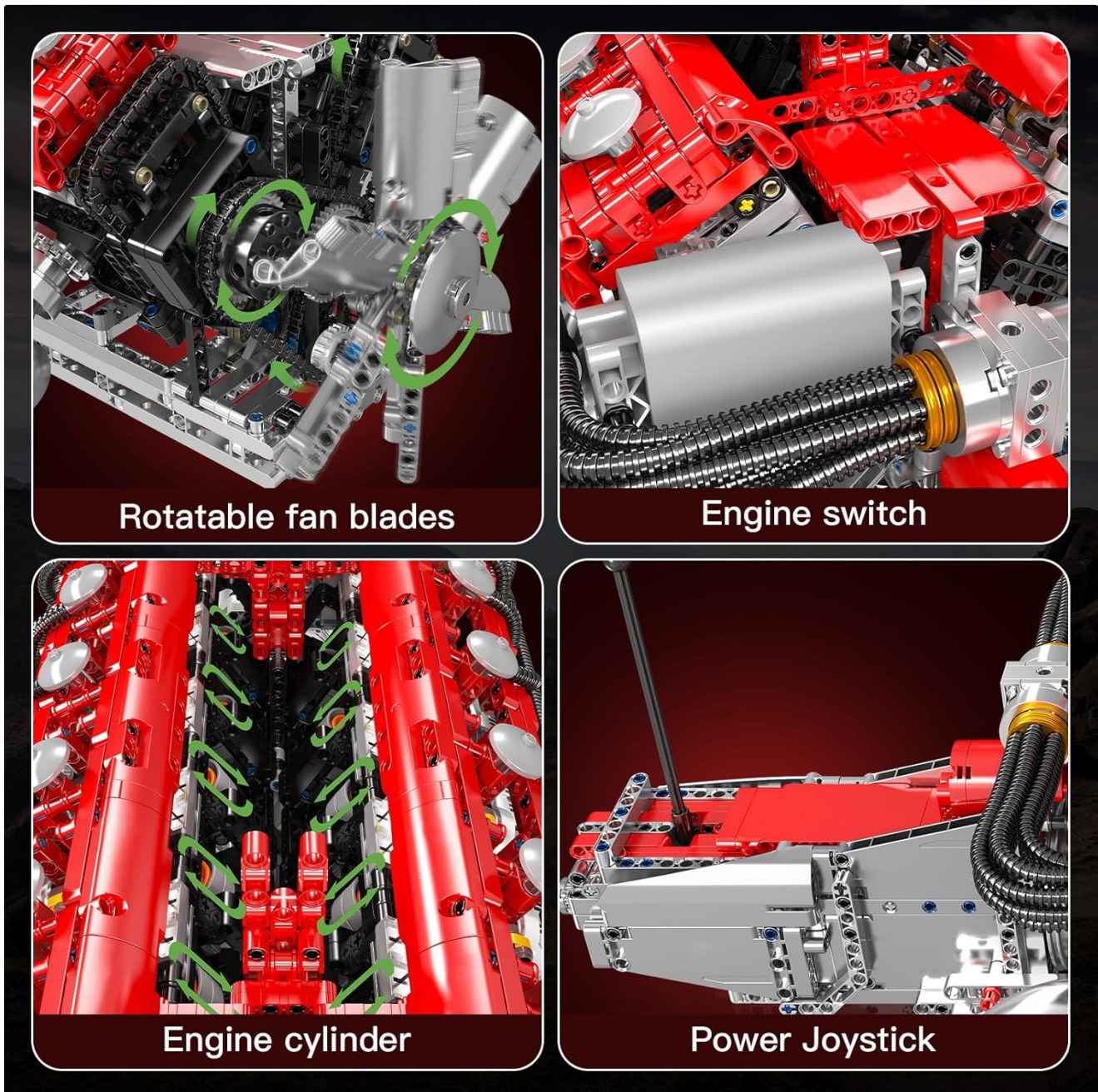


Image 5.1: Visual guide to operational features including rotatable fan blades, the engine switch, internal engine cylinder movement, and the power joystick for speed adjustment.

The model is designed to produce authentic engine sounds during operation, enhancing the realistic experience.

6. MAINTENANCE

To ensure the longevity and proper function of your Mould King V12 Engine Model, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to gently wipe dust from the model. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the model in a cool, dry place away from direct sunlight to prevent material degradation.
- **Handling:** Handle the model with care, especially moving parts, to avoid accidental damage.
- **Battery Replacement:** If the motor's performance diminishes, replace the batteries as per the instructions in the main assembly manual (battery type not specified in product data, assume standard AA/AAA for toy motors).

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Motor does not run.	Batteries are dead or incorrectly installed.	Check battery orientation and replace with fresh batteries. Ensure the engine switch is in the 'ON' position.
Parts are loose or fall off.	Incorrect assembly or insufficient pressure during connection.	Refer to the instruction manual and re-assemble the affected sections, ensuring parts are firmly connected.
Gears are not shifting smoothly.	Obstruction in the gear mechanism or incorrect assembly.	Inspect the gear system for any foreign objects or misaligned parts. Consult the manual for correct gear assembly.

8. SPECIFICATIONS

- **Model Number:** 10169
- **Brand:** Mould King
- **Number of Pieces:** 3472
- **Assembled Product Dimensions:** 69.1 × 24.7 × 31.8 cm (27.2 × 9.7 × 12.5 inches)
- **Item Weight:** Approximately 6 pounds
- **Recommended Age:** 14 years and up
- **Features:** Working V12 engine model, 4-speed gear system, motor-driven operation.

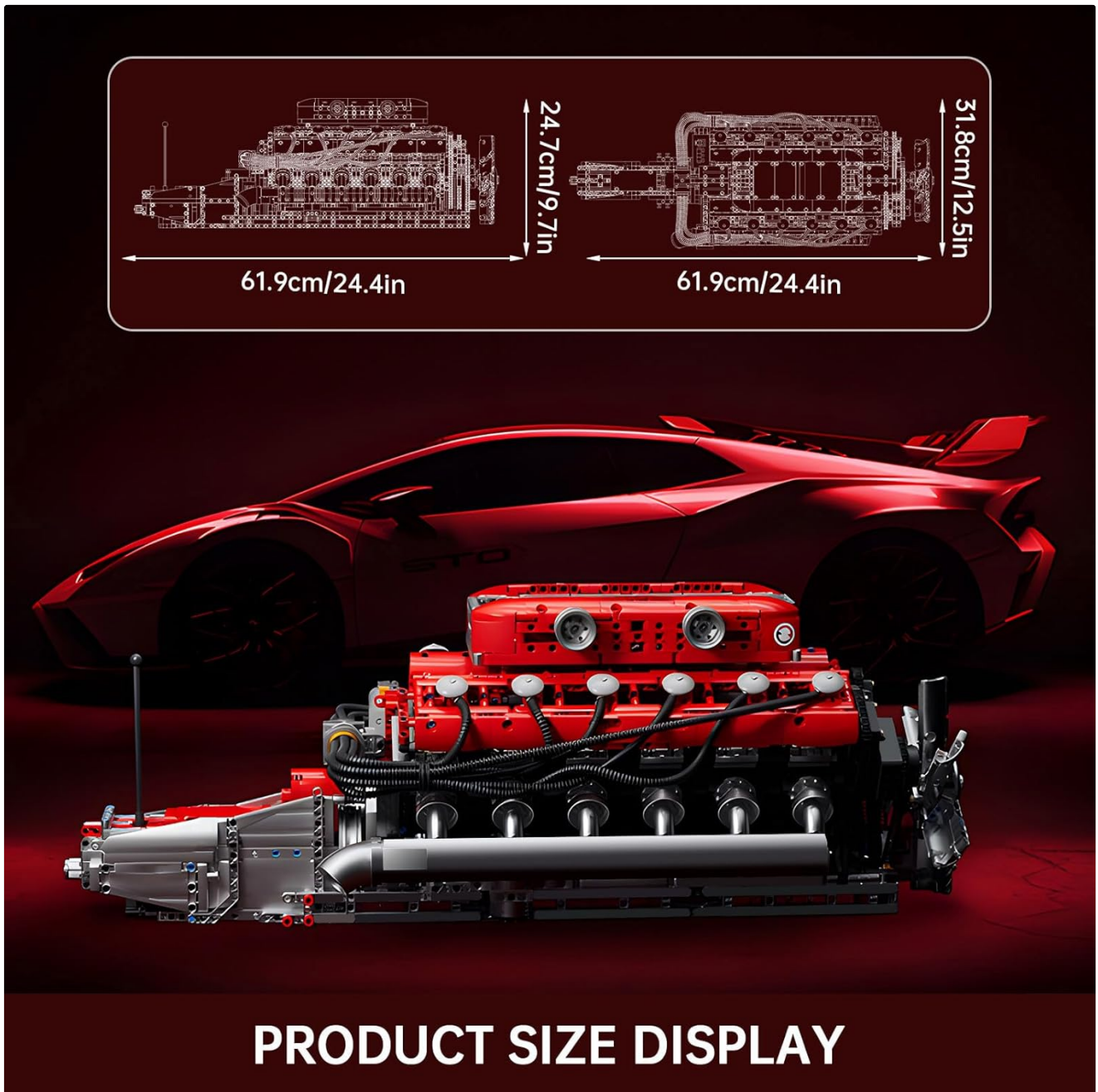


Image 8.1: Dimensional diagram of the assembled V12 engine model, indicating its length, width, and height.

9. WARRANTY AND SUPPORT

For any missing parts, assembly difficulties, or product inquiries, please contact Mould King customer support. Refer to the contact information provided in your product packaging or visit the official Mould King website for assistance. Please retain your proof of purchase for any warranty claims. Specific warranty details may vary and are typically outlined in the product packaging or on the manufacturer's website.