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> Mould King LB V12 Engine Model Kit Instruction Manual

Mould King FT-10202-1218

Mould King LB V12 Engine Model Kit Instruction Manual

Model: FT-10202-1218

1. INTRODUCTION

Thank you for choosing the Mould King LB V12 Engine Model Kit. This kit allows for the assembly of a detailed, miniaturized V12 engine model. Designed to demonstrate the fundamental principles of engine mechanics, it offers an engaging and educational building experience for individuals aged 14 and above. Upon completion, the model features moving pistons, a rotating crankshaft, and adjustable gears, simulating the operation of a real V12 engine.

2. SAFETY INFORMATION

- **Small Parts Warning:** This kit contains small parts which may pose a choking hazard for children under 3 years old. Keep all components out of reach of young children.
- **Age Recommendation:** Recommended for ages 14 and up due to the complexity of assembly and presence of small components.
- **Material Safety:** All parts are made from durable, non-toxic plastic materials.
- **Assembly Environment:** Assemble the kit on a clean, flat, and well-lit surface to prevent loss of parts and ensure proper construction.

3. PACKAGE CONTENTS

The Mould King LB V12 Engine Model Kit includes:

- Approximately 1260 building block pieces.
- One comprehensive instruction manual for assembly.

Please verify all components are present before beginning assembly. If any parts are missing or damaged, please contact customer support.

4. ASSEMBLY INSTRUCTIONS

Follow the included detailed instruction manual step-by-step for proper assembly. The manual provides visual guides and

clear directions for each stage of construction.

1. **Sorting Parts:** Before starting, sort the building blocks by type and color to facilitate easier identification during assembly.
2. **Follow the Manual:** Adhere strictly to the sequence and instructions provided in the printed manual. Each step builds upon the previous one.
3. **Secure Connections:** Ensure all pieces are firmly connected to prevent the model from falling apart during operation.
4. **Power Module Integration:** The power module is integrated during assembly. Ensure its correct placement and connection as per the manual.



Figure 4.1: The fully assembled Mould King LB V12 Engine Model Kit, showcasing its detailed design.

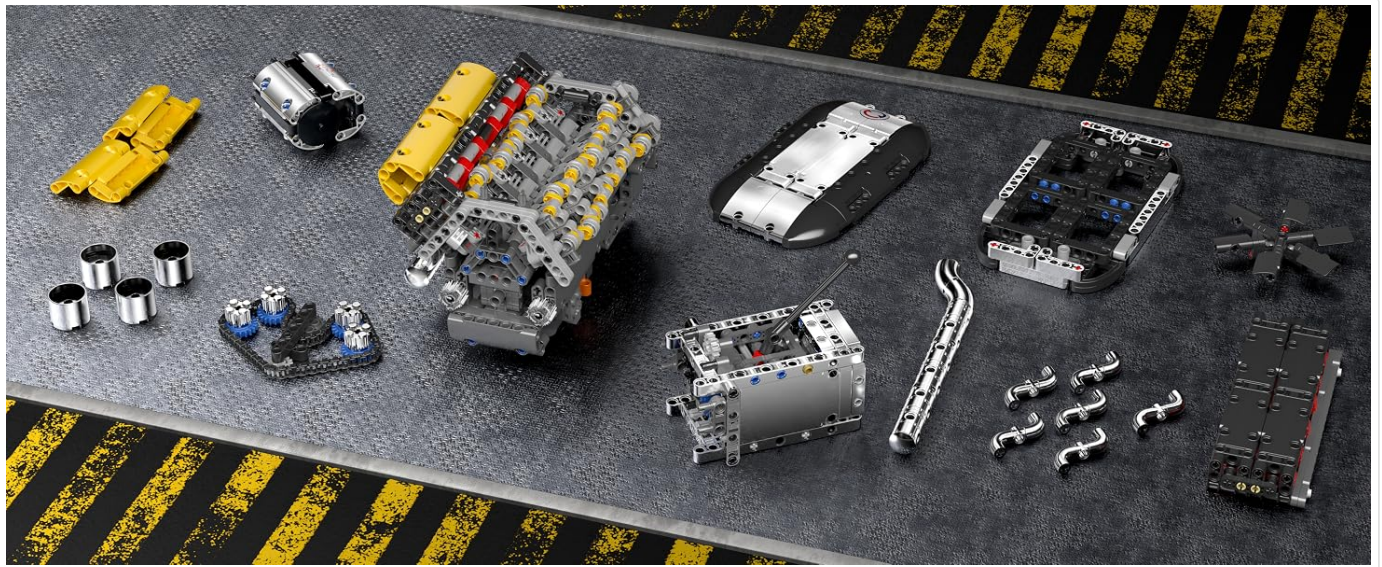


Figure 4.2: A view of the engine model highlighting the internal mechanical components and simulated appearance.

5. OPERATING INSTRUCTIONS

Once assembled, the Mould King LB V12 Engine Model Kit can be operated to demonstrate its mechanical functions.

1. **Power On:** Locate the power module on the side of the engine. Press the power button to activate the motor. The engine's fan will begin to rotate, and the internal pistons will move.
2. **Adjusting Gears:** The model features a gear shift mechanism with five adjustable gears. Use the lever to cycle through different gear settings. Observe how the speed of the fan and the movement of internal components change with each gear.
3. **Reverse Function:** The power module also allows for reverse operation. Consult the manual for specific instructions on engaging the reverse function.
4. **Power Off:** Press the power button again to turn off the engine.

Precision Parts Design

Rich Accessories, Endless Play Possibilities

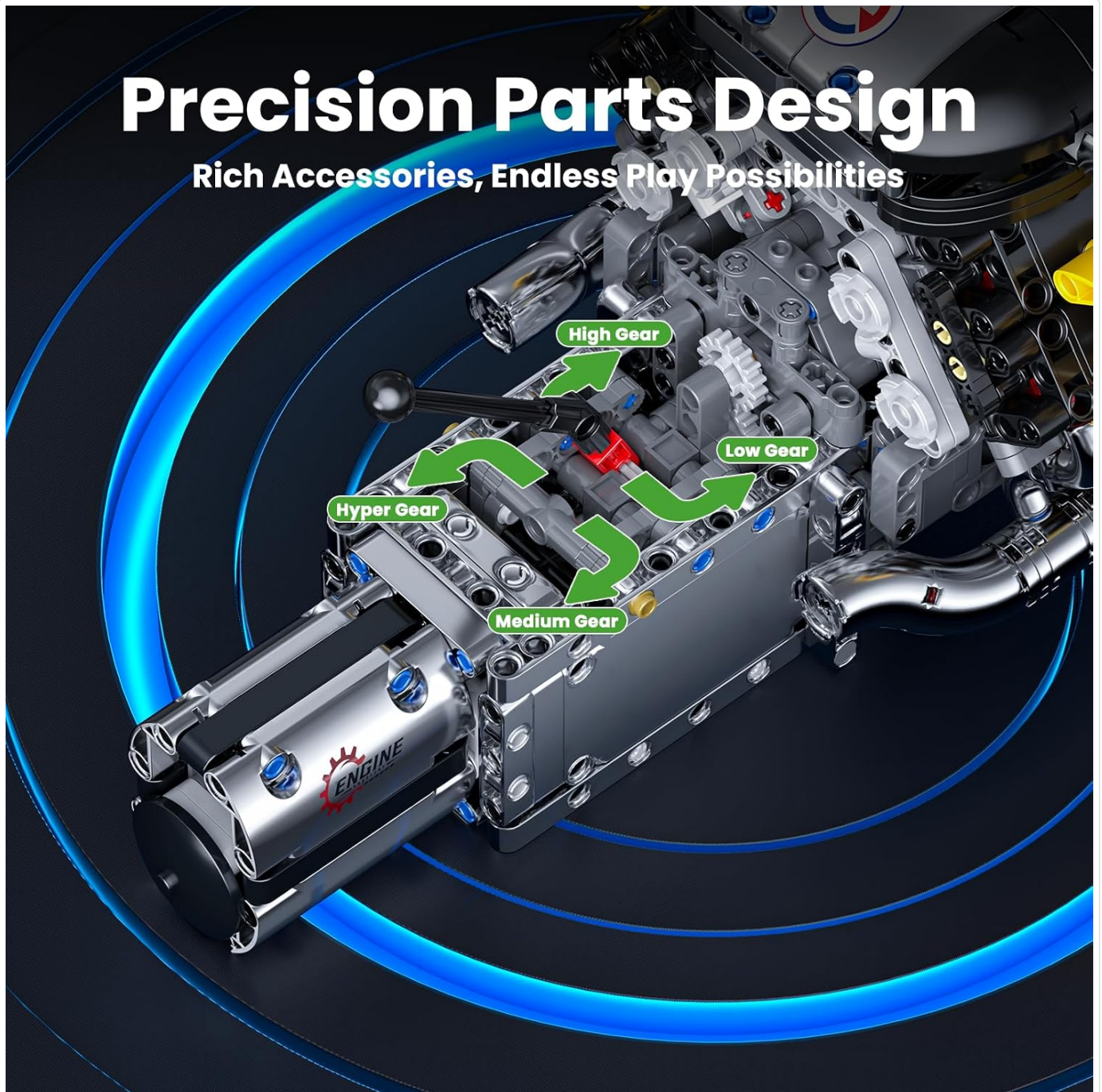


Figure 5.1: Close-up view of the engine's gear mechanism, showing the high, medium, and hyper gear settings.

Diverse Functions Can be Accomplished

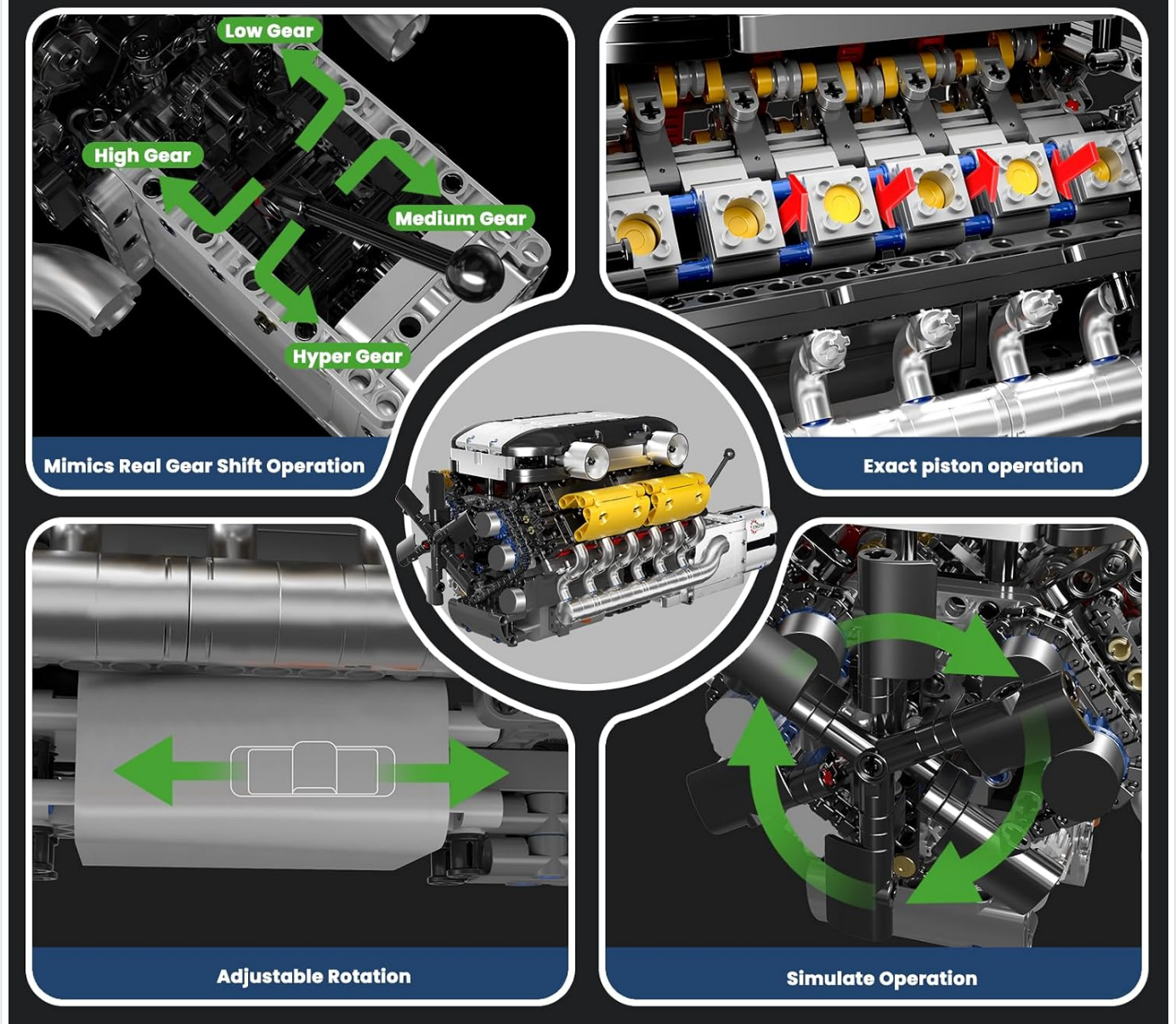


Figure 5.2: Diagram illustrating the various operational functions, including gear shifts, piston movement, adjustable rotation, and simulated operation.

Official Product Video

Your browser does not support the video tag.

Video 5.1: An official video demonstrating the assembly process and operational features of the Mould King LB V12 Engine Model Kit, including its running motor and adjustable gears.

6. MAINTENANCE

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

- **Cleaning:** Use a soft, dry cloth to gently wipe down the model. Avoid using harsh chemicals or abrasive cleaners, which can damage the plastic.

- **Storage:** Store the model in a cool, dry place away from direct sunlight and extreme temperatures to prevent material degradation.
- **Dust Prevention:** If displaying, consider using a dust cover to keep the model clean.
- **Battery Care:** If the power module uses batteries, remove them if the model will not be used for an extended period to prevent leakage.

7. TROUBLESHOOTING

If you encounter issues with your engine model, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Engine does not run when powered on.	Loose connection in power module or motor. Incorrect battery installation.	Check all connections to the power module and motor. Ensure batteries are correctly inserted and charged.
Parts do not fit together.	Incorrect orientation of parts. Excess force applied.	Refer to the instruction manual to confirm part orientation. Do not force pieces; they should fit smoothly.
Moving parts are stiff or jammed.	Misaligned gears or components. Dust or debris.	Carefully inspect the moving parts for any misalignment. Clean any visible dust or debris.
Missing pieces.	Parts lost during unboxing or assembly.	Thoroughly check your workspace. If still missing, contact Mould King customer support.

8. SPECIFICATIONS

- **Brand:** Mould King
- **Model Name:** FT-10202-1218
- **Number of Pieces:** 1260
- **Material:** Plastic
- **Item Dimensions (L x W x H):** 15 x 7 x 6 inches (approximately 38.1 x 17.8 x 15.2 cm)
- **Item Weight:** 1.31 Kilograms
- **Age Range:** Over 14 years old
- **Educational Objective:** STEM (Science, Technology, Engineering, Mathematics)
- **Operation Mode:** Manual (gear shift)

9. WARRANTY AND SUPPORT

For any inquiries regarding product warranty, missing parts, or technical support, please contact Mould King customer service directly through their official channels or the retailer where the product was purchased. Please retain your proof of purchase for warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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