

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

Manuals.plus /

› [Mould King](#) /

› Mould King 10169 V12 Engine Model Kit Instruction Manual

Mould King 10169

Mould King 10169 V12 Engine Model Kit Instruction Manual

Model: 10169

1. INTRODUCTION

Thank you for choosing the Mould King 10169 V12 Engine Model Kit. This kit provides an engaging and educational building experience, allowing you to construct a detailed replica of a V12 engine with functional components. Designed for enthusiasts aged 14 and up, this model offers insight into mechanical engineering principles through hands-on assembly.

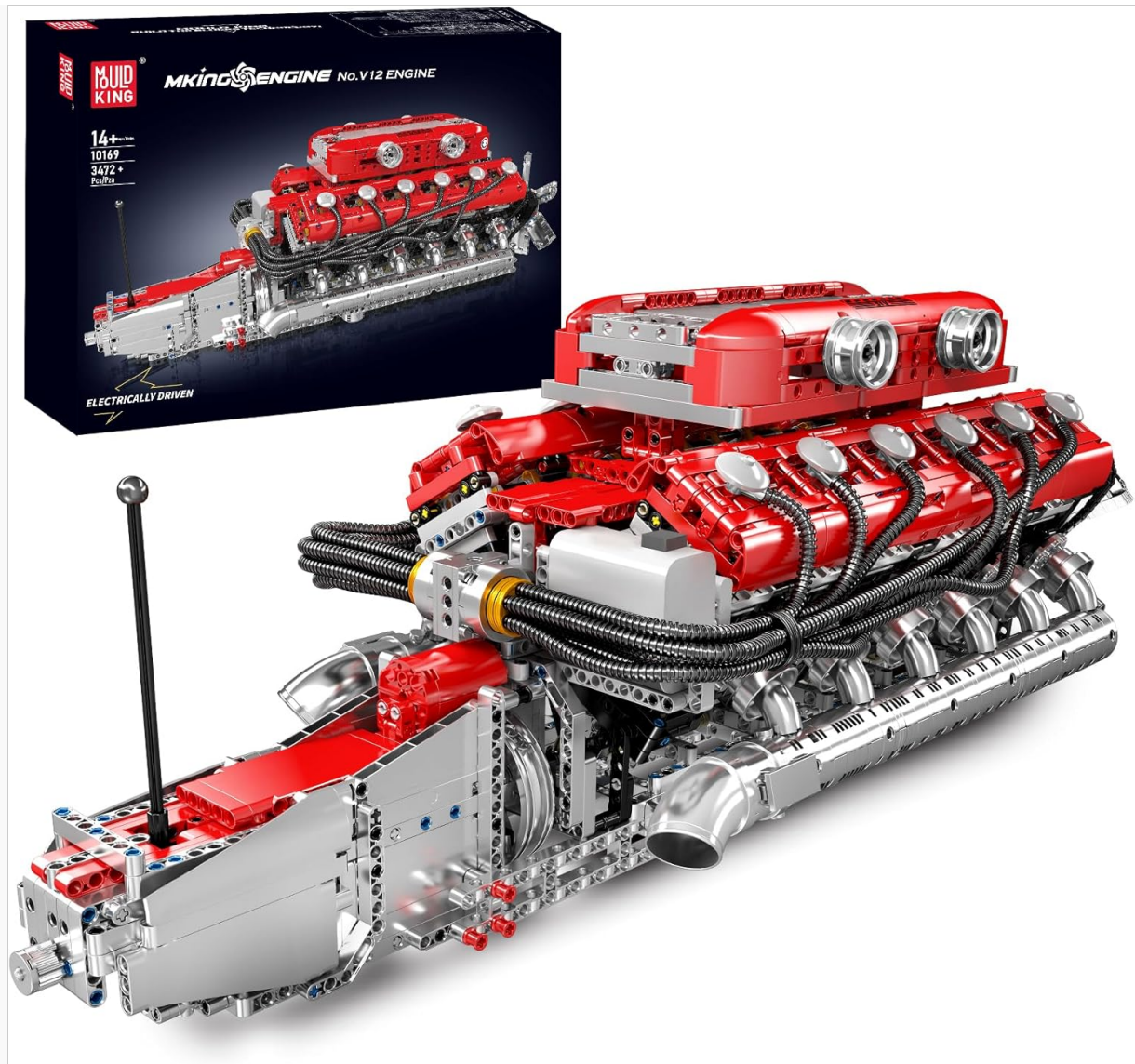


Image 1.1: The Mould King 10169 V12 Engine Model Kit, showing the product packaging and the fully assembled engine model.

2. SAFETY INFORMATION

- **Recommended Age:** This product is intended for individuals aged 14 years and up. It contains small parts that may pose a choking hazard for younger children.
- **Small Parts:** Keep all small components out of reach of children under 3 years old.
- **Battery Safety:** This model requires 6 x 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. Do not dispose of batteries in fire.
- **Assembly:** Exercise caution during assembly to avoid pinching fingers or damaging components.

3. PACKAGE CONTENTS

Your Mould King 10169 V12 Engine Model Kit includes:

- Over 3472 building pieces, individually packaged for organized assembly.
- Detailed step-by-step instruction manual.
- Motorized components for functional operation.
- Electroplating accessories for enhanced detail.



Image 3.1: The assembled engine model, highlighting the 3472+ piece count.

4. ASSEMBLY INSTRUCTIONS

The assembly of the Mould King 10169 V12 Engine Model Kit is a detailed process. Please refer to the comprehensive instruction manual included in your package for step-by-step guidance. Each accessory is packed in an independent bag to facilitate easier identification and assembly.

- Follow the instructions carefully, paying close attention to part orientation and connection points.
- Organize your pieces before starting each section to streamline the building process.
- Patience is key, especially during complex sections like the crankshaft and piston assembly.

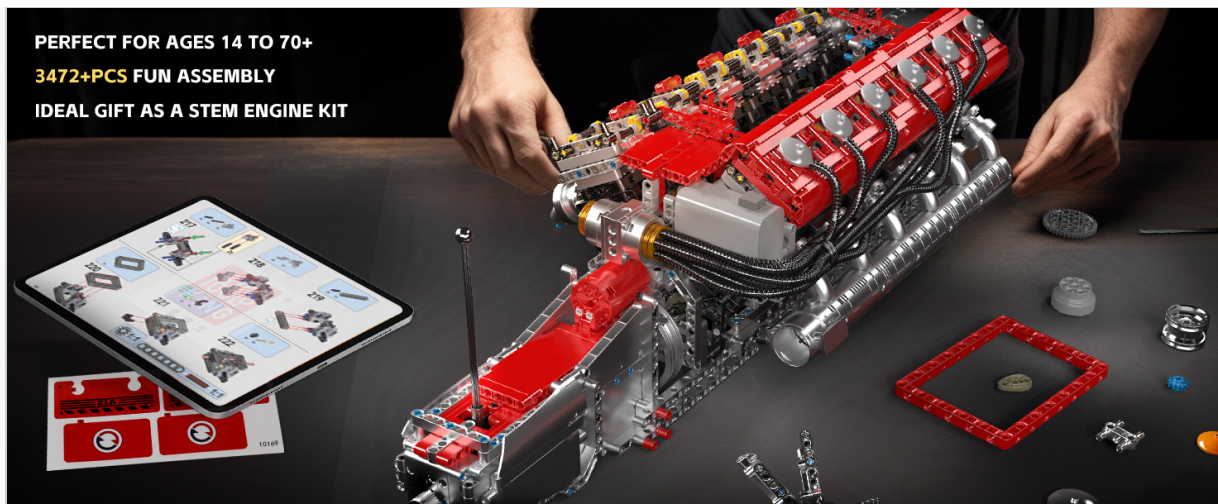
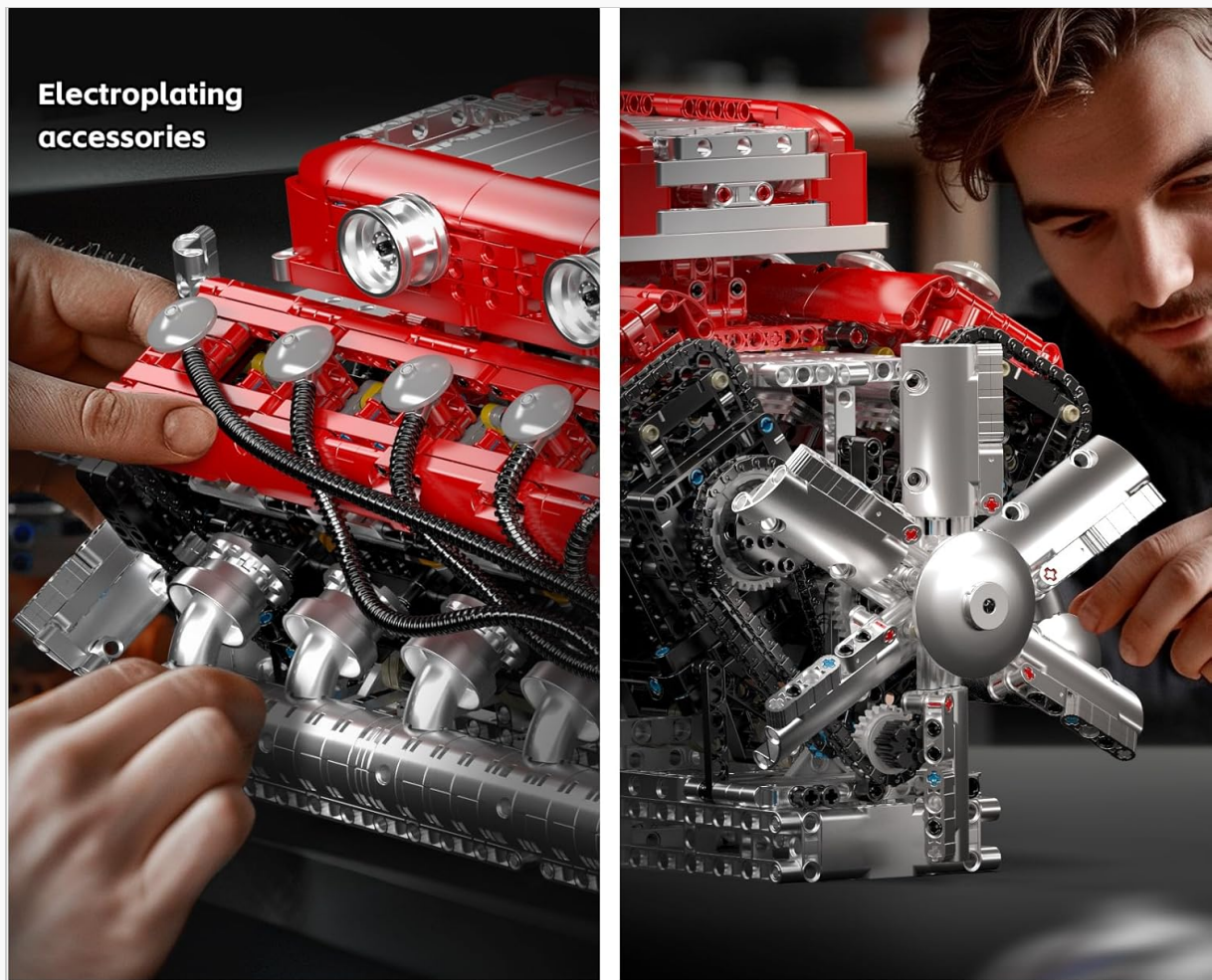


Image 4.1: An overview of the assembly process, showing the instruction manual and various components.



**Assemble the soul of the sports car,
feel the pulse of machinery**

Image 4.2: Detailed view of hands assembling the engine, highlighting the electroplating accessories.

5. SETUP

5.1 Battery Installation

The V12 engine model requires 6 x AA batteries for its motorized functions. These batteries are not

included in the kit and must be purchased separately.

1. Locate the battery compartment on the model.
2. Open the battery compartment cover.
3. Insert 6 x AA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Securely close the battery compartment cover.



Image 5.1: The non-rechargeable battery case location on the model. Note that 6 AA batteries are required and not included.

6. OPERATING INSTRUCTIONS

Once assembled and batteries are installed, you can operate your V12 engine model to observe its dynamic principles.

6.1 Activating the Engine

Locate the power switch on the model and turn it to the 'ON' position. The internal motor will activate, driving the crankshaft and pistons.

6.2 Transmission Operation

The model features a 4-speed transmission. Use the gear lever to switch between different speeds:

- **Low Gear:** Provides slower, more deliberate piston movement.
- **Intermediate Gear:** A balanced speed for observation.
- **High Gear:** Faster operation of the engine components.
- **Overdrive Gear:** The highest speed setting.

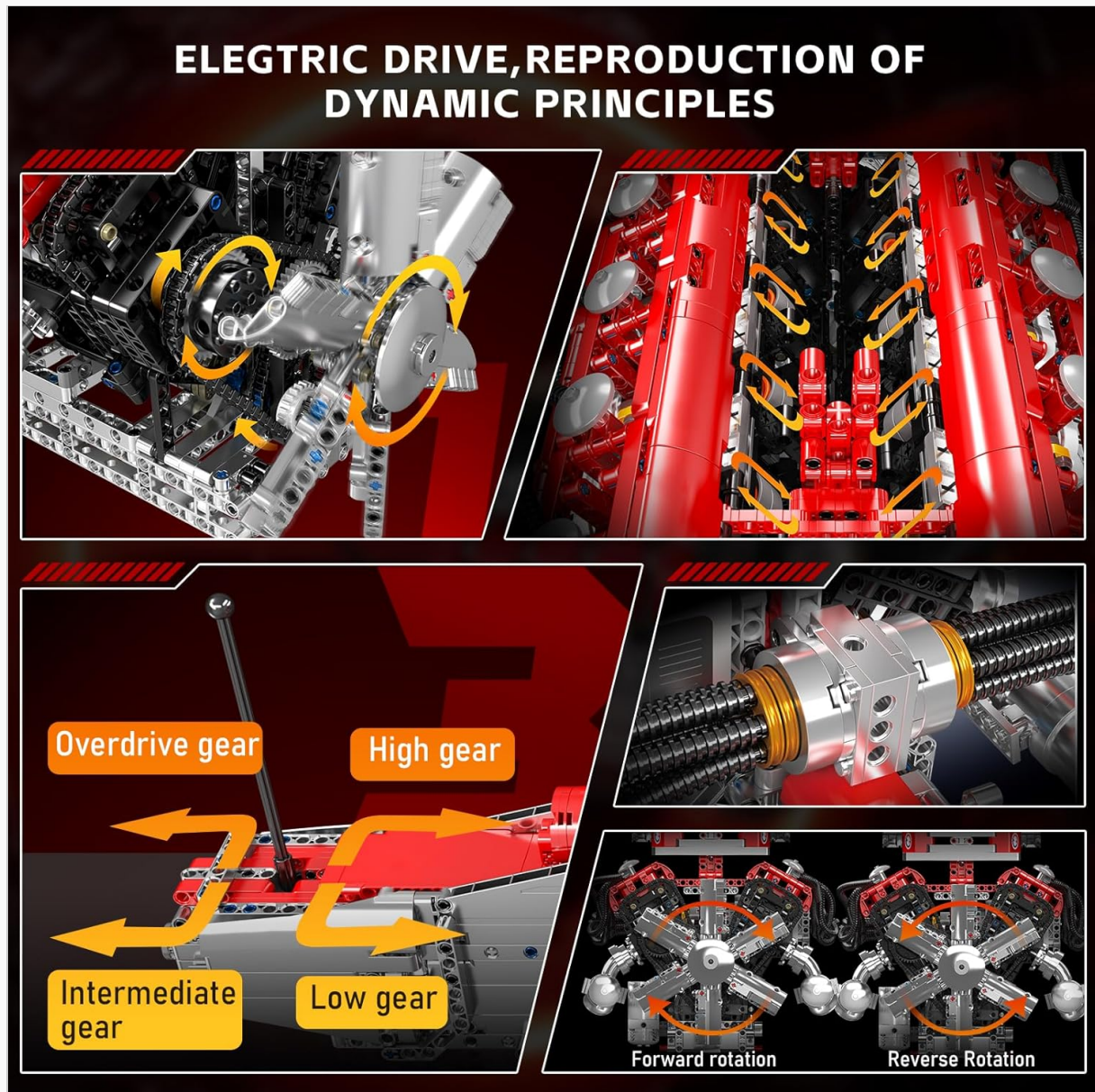


Image 6.1: Visual representation of the electric drive, dynamic principles, and gear mechanisms, including forward and reverse rotation.

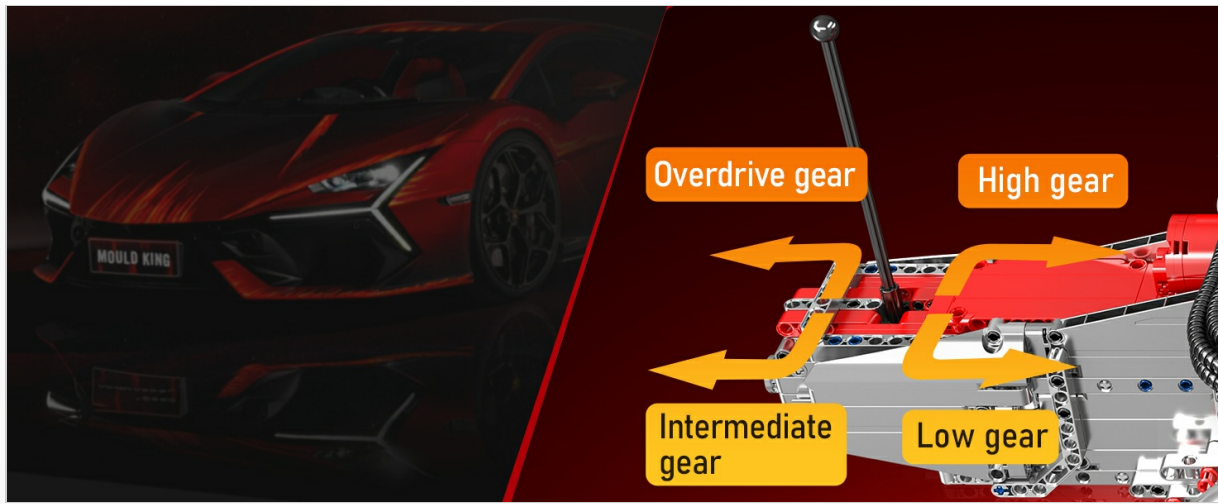


Image 6.2: Detailed diagram of the 4-speed transmission system.

7. MAINTENANCE

To ensure the longevity and proper function of your Mould King 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 materials, which can damage the plastic components or electroplated surfaces.
- **Storage:** Store the model in a cool, dry place away from direct sunlight and extreme temperatures. This helps prevent material degradation and color fading.
- **Battery Removal:** If the model will not be used for an extended period (e.g., several weeks or months), remove the AA batteries to prevent leakage and potential damage to the battery compartment and electrical components.
- **Inspection:** Periodically inspect the model for any loose connections or damaged parts. Tighten any loose connections carefully.

8. TROUBLESHOOTING

If you encounter issues with your Mould King 10169 V12 Engine Model Kit, consider the following troubleshooting steps:

- **Engine Not Starting:**
 - Check if the power switch is in the 'ON' position.
 - Verify that the 6 x AA batteries are correctly installed with the proper polarity.
 - Replace old or depleted batteries with new ones.
 - Ensure all electrical connections within the model are secure.
- **Pistons Binding or Movement is Not Smooth:**
 - Carefully review the assembly steps for the crankshaft and piston sections in the instruction manual. Incorrect alignment can cause binding.
 - Ensure no excess friction exists between moving parts. Re-check connections and clearances.
 - Confirm that all gears are properly meshed and not obstructed.
- **Missing or Damaged Parts:**
 - If you find any missing or damaged parts upon opening the kit, please contact Mould King customer

support immediately.

For further assistance, please refer to the contact information in the Warranty and Support section.

9. SPECIFICATIONS

Feature	Detail
Model Number	10169
Brand	Mould King
Number of Pieces	3472+
Recommended Age	14 years and up
Power Source	6 x AA Batteries (not included)
Package Dimensions	17.17 x 11.89 x 6.18 inches
Item Weight	8.6 pounds

10. WARRANTY AND SUPPORT

Mould King is committed to providing high-quality products. If you encounter any issues with your Mould King 10169 V12 Engine Model Kit, including missing or defective parts, please contact our customer support team.

For support, please visit the official Mould King store on Amazon or refer to the contact information provided in your product packaging. Please have your model number (10169) and purchase details ready when contacting support.