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› AMOC TECHING V8 Engine Model Kit User Manual

## AMOC V8 Engine

# AMOC TECHING V8 Engine Model Kit User Manual

Model: V8 Engine | Brand: AMOC

## INTRODUCTION

This manual provides comprehensive instructions for the assembly, operation, and maintenance of your AMOC TECHING V8 Engine Model Kit. Please read all instructions carefully before beginning assembly to ensure proper function and longevity of the model.

The AMOC TECHING V8 Engine Model Kit is a detailed, functional replica designed for educational purposes and mechanical enthusiasts. It features over 500 metal and stainless steel parts, allowing for a hands-on experience in understanding the mechanics of a V8 engine.

## PACKAGE CONTENTS

Verify that all components listed below are present in your package. If any parts are missing or damaged, please contact customer support.

- 1 Set x V8 Engine Model Parts (500+ pieces)
- 1 Set x Installation Tool Kit
- 1 x User Manual (English)



Image: Overview of the AMOC TECHING V8 Engine Model Kit contents, showing the metal gift box, foam trays with various parts, an installation tool kit, and the English user manual.

## SPECIFICATIONS

|                         |                                 |
|-------------------------|---------------------------------|
| <b>Brand</b>            | AMOC                            |
| <b>Model Name</b>       | V8 Engine                       |
| <b>Material</b>         | Aluminum Alloy, Stainless Steel |
| <b>Coloring Process</b> | Anodizing                       |
| <b>Number of Parts</b>  | 500+ pieces                     |
| <b>Lithium Battery</b>  | 3.7V 800mAh                     |
| <b>Charging Voltage</b> | DC 5V                           |
| <b>Charging Time</b>    | Approximately 2 hours           |

|                                       |  |
|---------------------------------------|--|
| <b>Usage Time</b>                     | Approximately 1 hour                           |
| <b>Assembling Difficulty</b>          | 5 stars (Advanced)                             |
| <b>Assembly Time</b>                  | Approximately 5 hours                          |
| <b>Product Dimensions (L x W x H)</b> | 17.2 x 19.8 x 18 cm (6.77 x 7.8 x 7.09 inches) |
| <b>Product Weight</b>                 | 2550g (5.62 lbs)                               |
| <b>Recommended Age</b>                | 16+  |

## SAFETY INFORMATION

- **Small Parts Warning:** This kit contains many small parts and is not suitable for children under 3 years old due to choking hazards. Recommended for ages 16 and up.
- **Sharp Edges:** Some metal components may have sharp edges. Handle with care during assembly.
- **Tools:** Use the provided tools carefully. Adult supervision is recommended for younger builders.
- **Battery Safety:** The model uses a lithium battery. Do not puncture, disassemble, or expose the battery to extreme temperatures. Charge only with the specified DC 5V charger.
- **Ventilation:** Assemble in a well-ventilated area.

## ASSEMBLY INSTRUCTIONS

The assembly process for the AMOC TECHING V8 Engine Model Kit is designed to be an engaging and educational experience. Follow the detailed, step-by-step instructions provided in the included English user manual. The following points offer general guidance:

1. **Preparation:** Unpack all components and organize them according to the manual's diagrams. Familiarize yourself with the different types of parts and the tools provided.
2. **Component Identification:** The kit includes over 500 pieces. Refer to the parts list and diagrams in the manual to correctly identify each component before assembly.
3. **Sequential Assembly:** Follow the manual's sequence precisely. Engine models often require specific order of assembly for proper fit and function.
4. **Fasteners:** Use the correct screws, nuts, and bolts for each step. Do not overtighten fasteners, as this can damage the metal parts.
5. **Mechanical Linkages:** Pay close attention to the assembly of moving parts such as crankshaft, pistons, camshafts, chains, and pulleys. Ensure they move freely before proceeding to the next step.
6. **Electrical Connections:** When installing the motor and battery, ensure all electrical connections are secure and correctly oriented as per the manual.
7. **Final Checks:** Before attempting to operate the model, perform a thorough visual inspection to ensure all parts are correctly installed and secured.



Image: A detailed view of the various individual components of the V8 engine model kit, including the engine block, crankshaft, pistons, cylinder heads, timing chains, and pulleys, arranged on a dark background.

# Metal

Aluminum alloy is oxidized by CNC process of metal material  
It can vividly restore the original appearance and operating  
principle of mechanical products

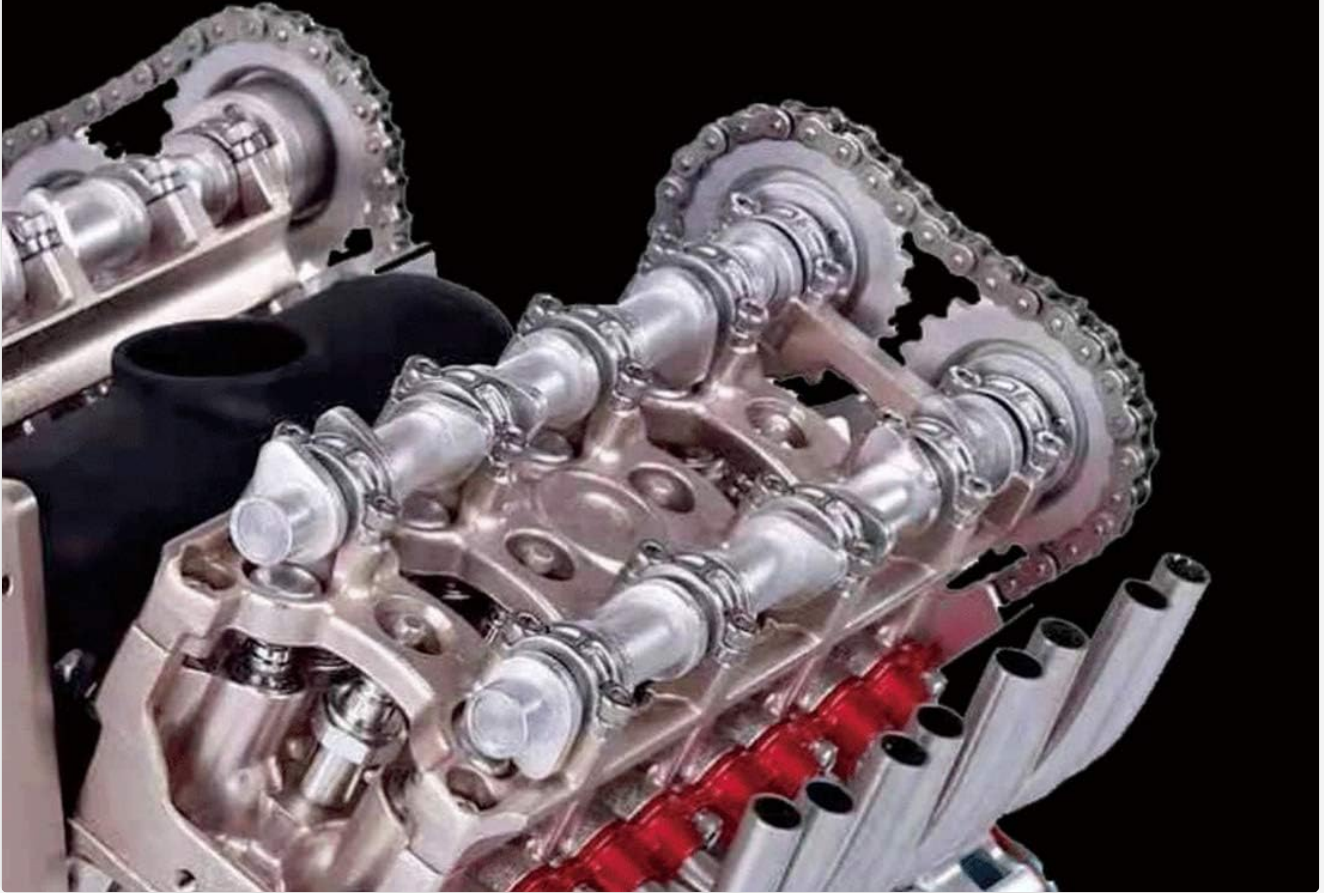


Image: A close-up shot highlighting the intricate metal construction of the cylinder heads and camshafts, demonstrating the precision and detail of the model's components.

# Mechanical

The mechanical structure is classic and full of charm. It is polished and carved by a variety of techniques, showing the beauty of mechanical craftsmanship.

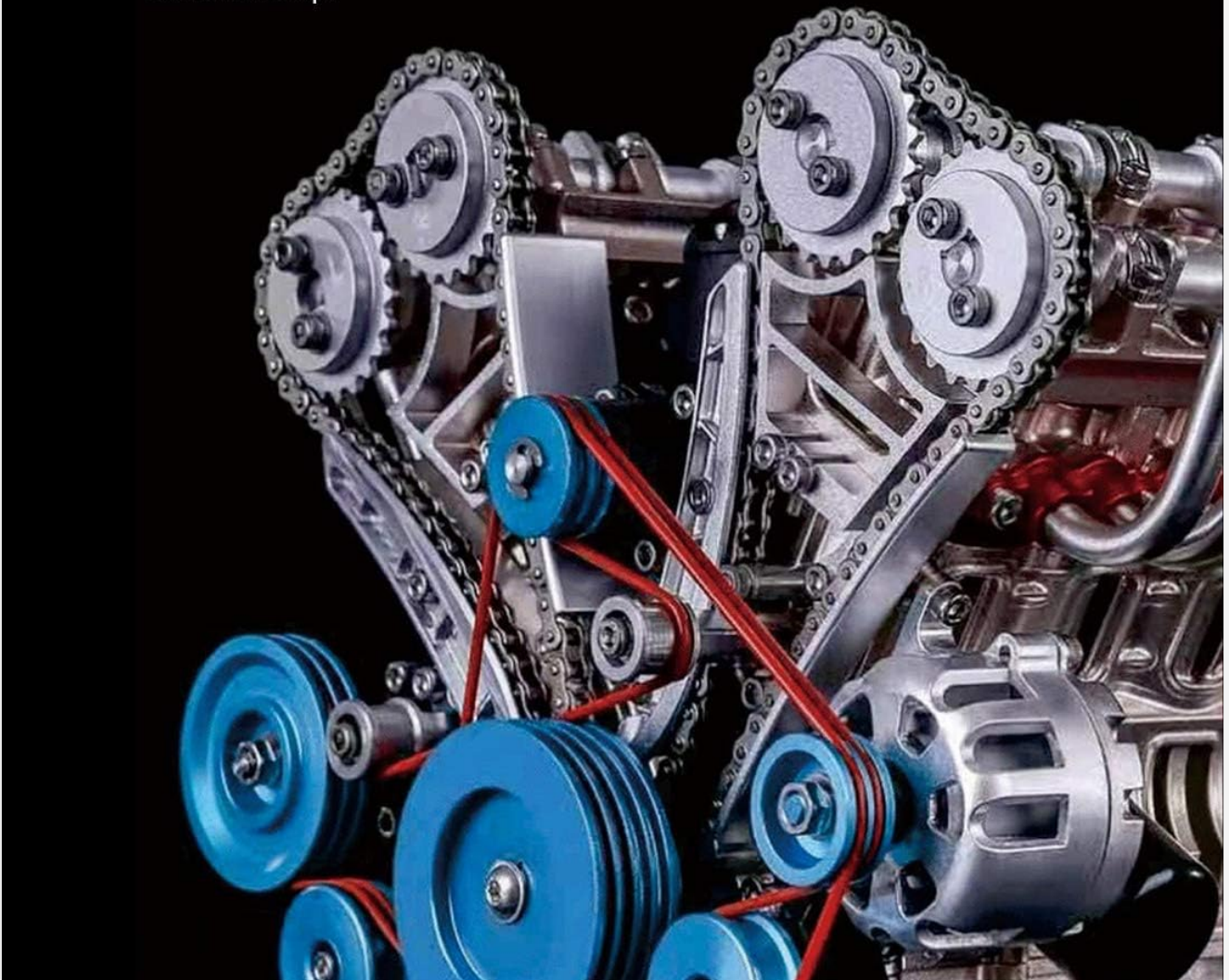


Image: A detailed view of the mechanical timing system, showing the metal chains, sprockets, and blue pulleys, illustrating the functional aspects of the engine model.

## OPERATING INSTRUCTIONS

Once assembly is complete, the V8 engine model can be operated using its integrated motor and rechargeable battery.

1. **Charging the Battery:** Connect the provided charging cable to the model's charging port and to a DC 5V power source. The lithium battery (3.7V 800mAh) requires approximately 2 hours for a full charge. Do not overcharge.
2. **Power On:** Locate the power switch on the model (refer to your specific manual for exact location). Flip the switch to the "ON" position.
3. **Observation:** The motor will begin to drive the internal components, simulating the operation of a real V8 engine. Observe the movement of the pistons, crankshaft, camshafts, and timing chains.
4. **Usage Duration:** A fully charged battery provides approximately 1 hour of continuous operation.
5. **Power Off:** To stop the model, flip the power switch to the "OFF" position.

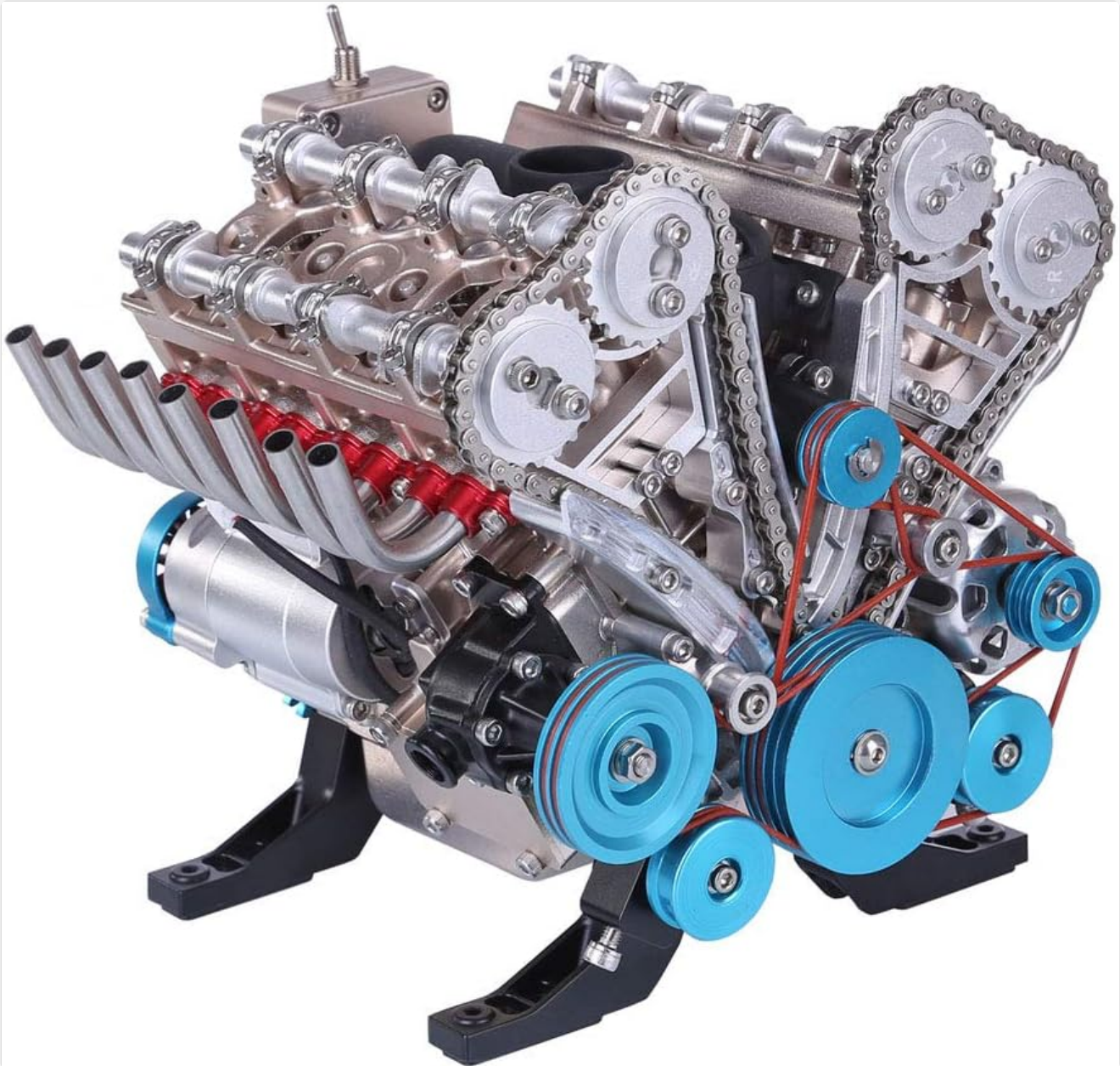


Image: The complete AMOC TECHING V8 Engine Model, assembled and ready for operation, displaying its detailed metal construction, timing chains, pulleys, and exhaust manifolds.

## MAINTENANCE

Proper maintenance ensures the longevity and smooth operation of your V8 engine model.

- **Cleaning:** Use a soft, dry cloth to gently wipe dust from the model. Avoid using harsh chemicals or abrasive materials, which can damage the anodized finish.
- **Lubrication:** Periodically, a small amount of light machine oil can be applied to moving metal parts (e.g., crankshaft bearings, camshafts) to ensure smooth operation. Refer to the manual for specific lubrication points.
- **Storage:** Store the model in a clean, dry environment away from direct sunlight and extreme temperatures. The original metal gift box is suitable for storage.
- **Battery Care:** If storing for an extended period, ensure the battery is partially charged (around 50%) and recharge it every few months to prevent deep discharge.

## TROUBLESHOOTING

If you encounter issues with your V8 engine model, refer to the following common troubleshooting steps:

- **Model Does Not Run:**

- Ensure the battery is fully charged.
- Verify the power switch is in the "ON" position.
- Check all electrical connections to the motor and battery for looseness.
- Inspect for any mechanical obstructions preventing movement of internal parts.

- **Parts Do Not Fit:**

- Double-check the assembly step in the manual. Ensure you are using the correct part for the specific step.
- Some parts may require gentle force to fit, but avoid excessive force that could cause damage.
- Ensure no burrs or manufacturing imperfections are preventing proper fit.

- **Excessive Noise During Operation:**

- Check for any loose components or fasteners.
- Ensure moving parts are properly aligned and not rubbing against stationary parts.
- Apply lubrication to moving metal parts as described in the Maintenance section.

If the issue persists after attempting these steps, please contact customer support for further assistance.

## WARRANTY AND SUPPORT

This AMOC TECHING V8 Engine Model Kit is designed for durability and educational value. While specific warranty details are not provided in this manual, please retain your proof of purchase. For any manufacturing defects or issues not covered by troubleshooting, contact the seller or manufacturer directly.

For technical support, missing parts, or further inquiries, please refer to the contact information provided with your purchase or on the official AMOC website.