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Mould King 2177+

Mould King Rotary Engine Model Kit (2177+ PCS) Instruction Manual

Model: 2177+

1. INTRODUCTION

Thank you for choosing the Mould King Rotary Engine Model Kit. This kit provides an engaging and educational experience, allowing you to construct a detailed, motorized replica of a Wankel rotary engine using over 2177 building pieces. This manual will guide you through the assembly process, operation, maintenance, and provide troubleshooting tips to ensure a rewarding building experience and a functional model.

ELECTRIC DRIVE

REBUILD ICONIC WANKEL POWER

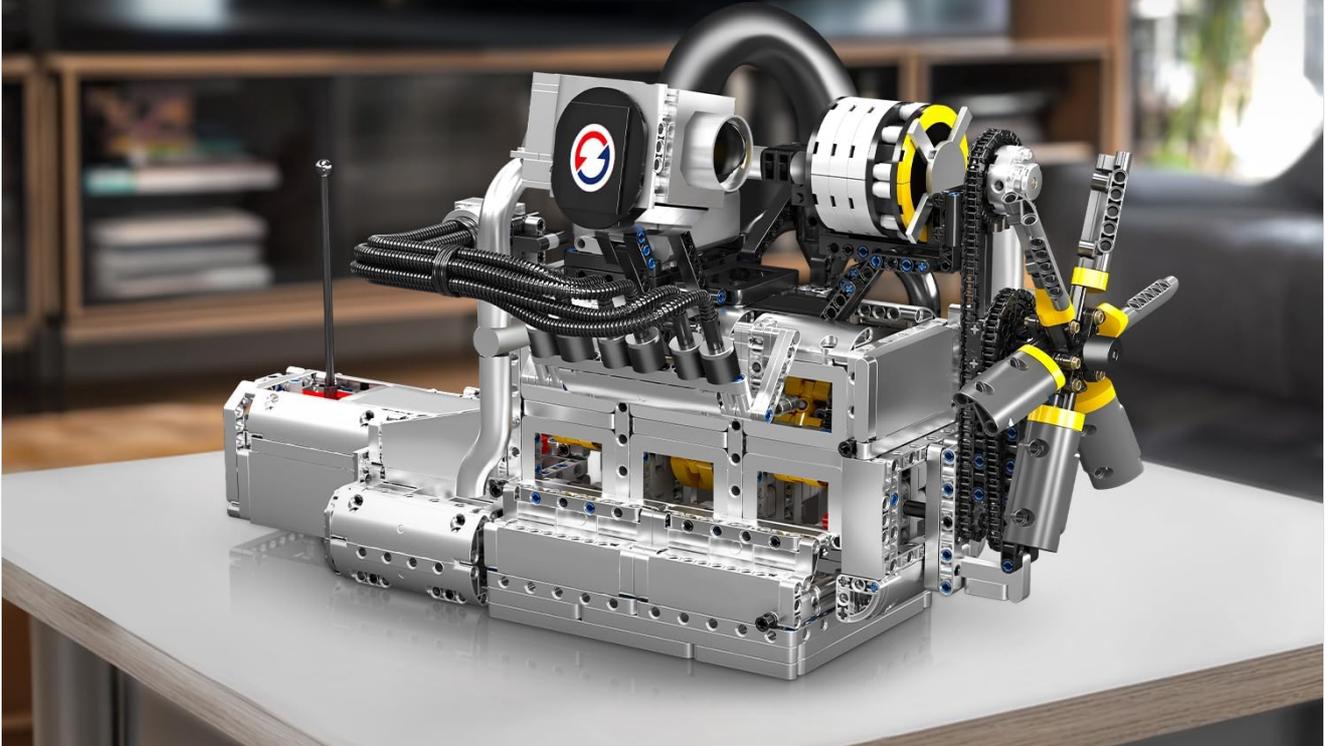


Image 1.1: The fully assembled Mould King Rotary Engine Model Kit.

2. SAFETY INFORMATION

Please read and understand all safety instructions before beginning assembly or operation of the model kit.

- This product is recommended for individuals **14 years of age and older**. Adult supervision is advised for younger builders.
- Keep small parts away from children under 3 years old to prevent choking hazards.
- Ensure all electrical components (motor, battery box) are handled carefully. Do not expose them to water or extreme temperatures.
- Batteries are not included with the kit. Use appropriate batteries as specified in the assembly instructions.
- Do not force pieces together. If parts do not fit, recheck the instructions.

3. PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged. The kit includes:

- Over 2177 building block pieces, sorted into numbered bags.
- 1 x Electric Motor.
- 1 x Battery Box (requires 1 'A' battery, not included).
- 1 x Detailed Instruction Manual (this document).
- Additional accessories for assembly.



Image 3.1: The product packaging, indicating the kit contents.

4. ASSEMBLY INSTRUCTIONS

The assembly of the Mould King Rotary Engine Model Kit is a detailed process designed to be both challenging and rewarding. Follow the included step-by-step graphical instructions carefully.

4.1. Preparation

- Clear a spacious, well-lit work area.
- Organize the numbered bags of building blocks according to the instruction manual's guidance.
- Ensure you have the necessary batteries for the battery box (1 'A' battery).

4.2. Step-by-Step Building

Refer to the dedicated instruction booklet provided in your kit for detailed, visual assembly steps. Each step illustrates the parts required and their placement. Pay close attention to the orientation of pieces, especially gears and connecting rods.

- **Follow the numbered steps sequentially.** Do not skip steps.
- **Verify part numbers and colors** before attaching them.
- **Ensure connections are secure** but do not apply excessive force.
- **Install the electric motor and battery box** as indicated in the instructions. Proper placement is crucial for the engine's functionality.



Image 4.1: A builder engaged in the assembly process of the rotary engine model.

5. OPERATING INSTRUCTIONS

Once fully assembled, your Mould King Rotary Engine Model Kit can be operated to demonstrate the principles of a Wankel engine.

5.1. Battery Installation

1. Locate the battery box on your assembled model.
2. Open the battery compartment cover.
3. Insert 1 'A' battery, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

5.2. Electric Motor Drive

The model features an electric motor that drives the rotary mechanism. Locate the power switch on the battery box or motor unit. Flip the switch to the 'ON' position to activate the motor. The internal rotors will begin to spin,

simulating the operation of a real Wankel engine.

5.3. Gear Switching

Your model includes a functional gearshift mechanism. This allows you to observe the engine's operation at different speeds or in different modes. Experiment with the gear lever to understand how it changes the rotational speed or direction of the engine components.

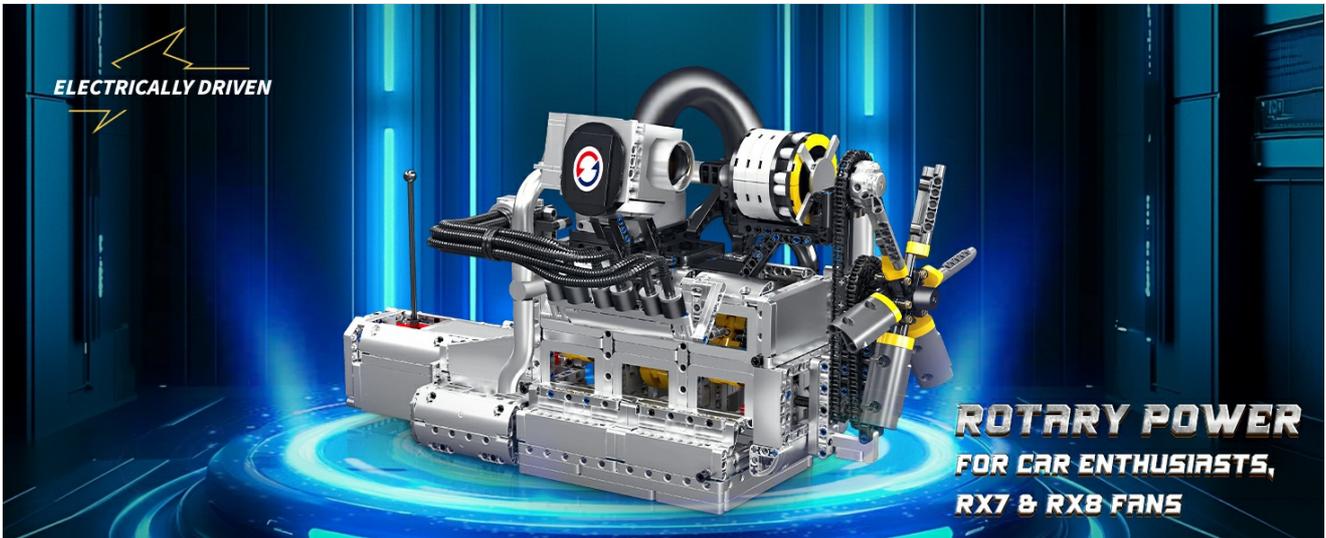


Image 5.1: Visual guide for electric motor drive, gear switching, and battery box placement.

6. CARE AND MAINTENANCE

To ensure the longevity and optimal performance of your Mould King Rotary Engine Model Kit, follow these simple care and maintenance guidelines:

- **Cleaning:** Dust the model regularly with a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used, but ensure no moisture enters the electrical components.
- **Storage:** Store the model in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Removal:** If the model will not be used for an extended period, remove the battery from the battery box to prevent leakage and damage.
- **Component Check:** Periodically inspect all connections and moving parts to ensure they are secure and free from obstruction.

7. TROUBLESHOOTING

If you encounter any issues with your model, refer to the following troubleshooting tips:

7.1. Engine Does Not Run

- **Check Battery:** Ensure the battery is correctly installed with the proper polarity and is not depleted. Replace if necessary.
- **Power Switch:** Verify that the power switch on the battery box or motor is in the 'ON' position.
- **Connections:** Inspect all electrical connections between the motor, battery box, and any wiring. Ensure they are firmly connected.
- **Obstructions:** Check for any building blocks or foreign objects that might be obstructing the movement of the gears or rotors.

7.2. Gears Are Stiff or Jammed

- **Recheck Assembly:** Carefully review the assembly steps related to the gear mechanism. Incorrect placement of even one piece can cause jamming.
- **Lubrication:** While not typically required for building blocks, ensure no dust or debris is interfering with gear movement.

8. PRODUCT SPECIFICATIONS

Feature	Detail
Product Dimensions	20.47 x 9.06 x 11.57 inches (52 x 23 x 29.4 cm)
Item Weight	5 pounds
ASIN	B0FNWR9V5T
Manufacturer Recommended Age	14 years and up
Batteries Required	1 'A' battery (not included for operation)
Number of Pieces	2177+
Manufacturer	Mould King



Image 8.1: Dimensions of the assembled rotary engine model.

9. CUSTOMER SUPPORT

For further assistance, missing parts, or any inquiries regarding your Mould King Rotary Engine Model Kit, please contact Mould King customer support through their official channels or the retailer where the product was purchased. Please have your ASIN (B0FNWR9V5T) and model number (2177+) ready when contacting support.