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Mould King 10141

Mould King Aircraft Engine 10141 Building Set Instruction Manual

Model: 10141 | Brand: Mould King

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1. Introduction

This instruction manual provides detailed guidance for the assembly, operation, and maintenance of your Mould King Aircraft Engine 10141 building set. This STEM DIY project is designed for individuals aged 14 and up, offering an engaging experience in constructing a functional aircraft engine model with a motorized system.
Please read this manual thoroughly before beginning assembly to ensure a smooth and enjoyable building process.

2. Safety Information

- **Small Parts Warning:** This set 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:** This product is recommended for ages 14 and up due to the complexity of assembly and the presence of small components.
- **Battery Safety:** If the model uses batteries (for the motor), ensure they are inserted correctly according to polarity markings. 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. Dispose of used batteries responsibly.
- **Electrical Components:** Handle the motor and battery box with care. Do not expose them to water or extreme temperatures.
- **Supervision:** Adult supervision is recommended during assembly, especially for younger builders within the recommended age range.

3. Package Contents

Your Mould King Aircraft Engine 10141 building set includes the following:

- 2256 Building Pieces (various shapes and sizes)

- 1 Motorized System (including motor and battery box)
- 1 Detailed Color Instruction Manual
- Protective Packaging

Please verify all components are present upon opening the package. If any parts are missing or damaged, refer to the "Warranty and Support" section for assistance.

4. Assembly Instructions

The Mould King Aircraft Engine 10141 is a complex model consisting of 2256 pieces. Detailed, step-by-step assembly instructions are provided in the included color manual. Follow these instructions carefully for successful construction.

1. **Preparation:** Organize your workspace. Open the numbered bags of pieces as indicated in the instruction manual for each step.
2. **Follow the Manual:** Refer to the comprehensive color instruction manual for precise guidance on connecting each piece. Pay close attention to the diagrams and part orientations.
3. **Motor Integration:** The motorized system will be integrated at specific stages. Ensure all connections are secure and correctly aligned as per the manual.
4. **Testing:** Periodically test movable parts during assembly to ensure they function correctly before proceeding to subsequent steps.



Figure 4.1: The fully assembled Mould King Aircraft Engine 10141 model, showcasing its intricate design and the product packaging.

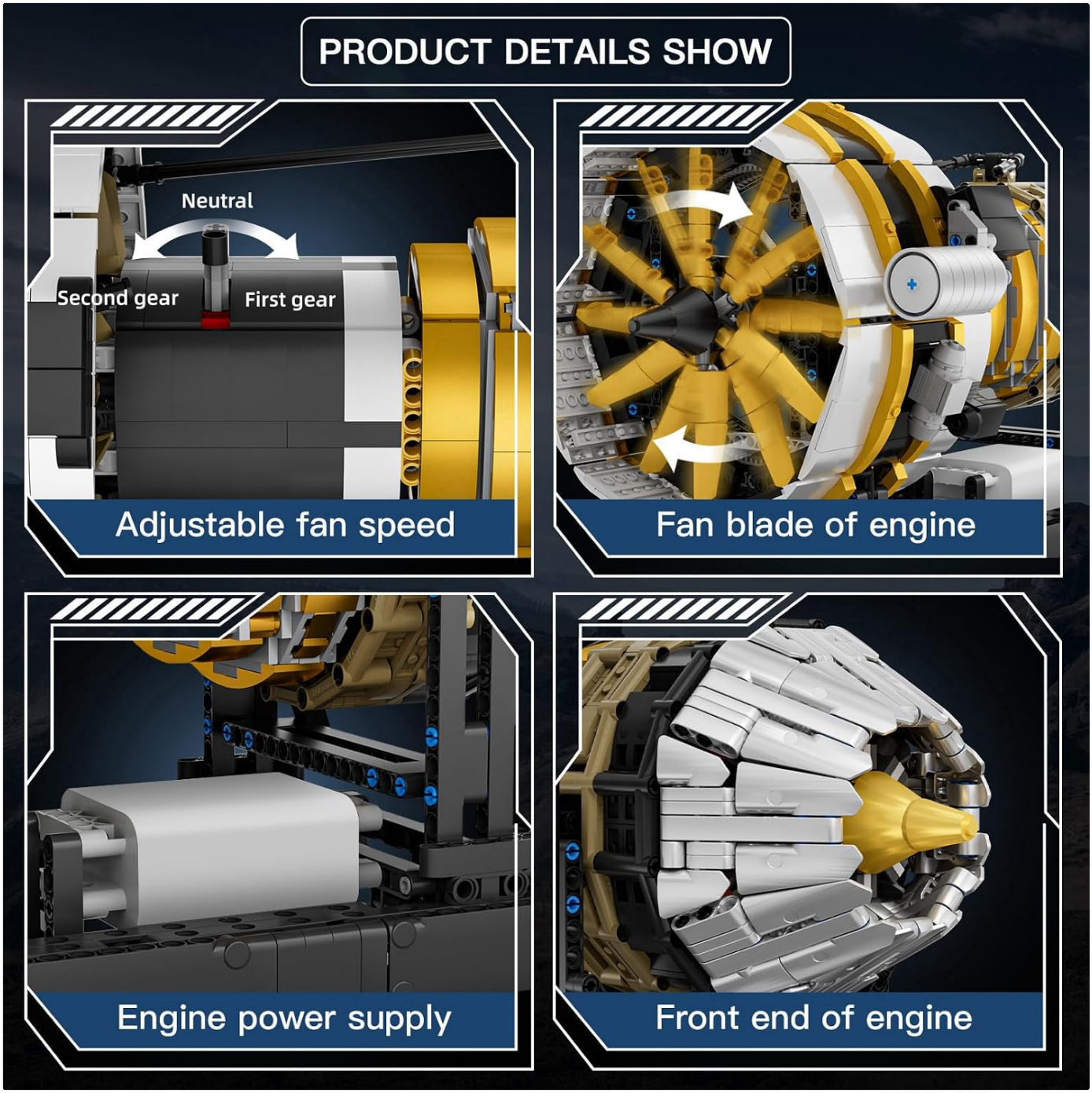


Figure 4.2: Close-up details of the engine, including the adjustable fan speed mechanism, the design of the fan blades, the location of the engine power supply, and the structure of the engine's front end.



Figure 4.3: An exploded view highlighting key components such as the engine casing, engine fan, engine power unit, and mounting points, illustrating how the model is constructed.

5. Operating Instructions

Once assembled, your Mould King Aircraft Engine 10141 model features a functional motorized system. Follow these steps to operate your model:

1. **Install Batteries:** Insert the required batteries (not included) into the battery box, ensuring correct polarity. Refer to the assembly manual for battery type and placement.
2. **Power On:** Locate the power switch or button on the battery box or integrated control panel. Activate the power to start the engine's functions.
3. **Propeller Rotation:** The engine features bidirectional propeller rotation. Use the push-button control to change the direction of the propeller spin.
4. **Adjust Speed:** The motorized system includes a 3-speed gear selection. Adjust the gear setting to control the speed of the propeller rotation and simulate different operational effects.

5. **Sound Effects:** The model is designed to produce simulated engine sound effects when operational, enhancing the realistic experience.
6. **Power Off:** To conserve battery life, always turn off the power when the model is not in use.

6. Maintenance

Proper maintenance will ensure the longevity and optimal performance of your Mould King Aircraft Engine 10141 model.

- **Cleaning:** Dust the model regularly with a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used, but avoid excessive moisture, especially near electrical components.
- **Storage:** Store the model in a cool, dry place away from direct sunlight and extreme temperatures to prevent material degradation.
- **Battery Removal:** If the model will be stored for an extended period, remove the batteries from the battery box to prevent leakage and damage.
- **Component Check:** Periodically inspect the model for any loose or damaged parts. Re-secure or replace as necessary.

7. Troubleshooting

If you encounter issues with your Mould King Aircraft Engine 10141, refer to the following common solutions:

Problem	Possible Cause	Solution
Motor does not operate.	Batteries are dead or incorrectly installed. Loose connection to the motor. Power switch is off.	Replace batteries or ensure correct polarity. Check all wiring connections to the motor and battery box. Ensure the power switch is in the "On" position.
Propeller rotation is inconsistent or slow.	Low battery power. Obstruction in the propeller mechanism. Incorrect gear setting.	Replace batteries. Inspect the propeller area for any foreign objects or misaligned parts. Adjust the 3-speed gear selection.
Missing or damaged parts during assembly.	Manufacturing error or shipping damage.	Contact Mould King customer support for replacement parts. Refer to the "Warranty and Support" section.

8. Specifications

- **Model Number:** 10141 (AML-10141-0809)
- **Brand:** Mould King
- **Number of Pieces:** 2256
- **Product Dimensions (Assembled):** 41.6 × 25.4 × 23.5 cm (16.4 × 10 × 9.3 inches)
- **Item Weight:** 5.61 pounds
- **Recommended Age:** 14 years and up
- **Features:** Motorized system, bidirectional propeller rotation, 3-speed gear selection, simulated movement effects, engine sound effects.

- **Manufacturer:** Guangdong Yuxing Technology Industry Co., Ltd

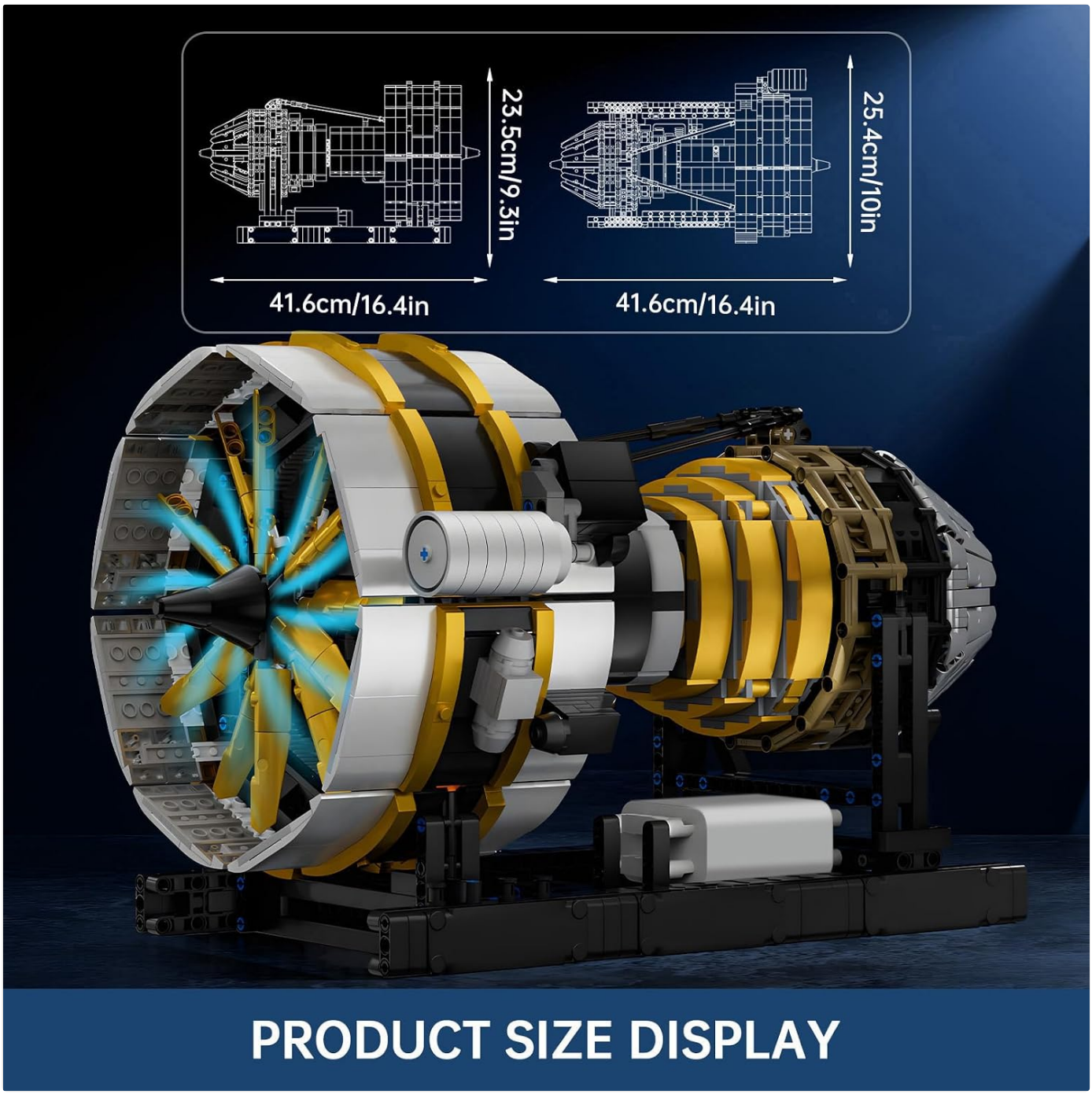


Figure 8.1: Dimensional overview of the assembled aircraft engine model, indicating its length, width, and height.

9. Warranty and Support

Mould King is committed to providing high-quality products. If you encounter any issues with your Aircraft Engine 10141 building set, including missing or defective parts, please contact Mould King customer support.
For support, please visit the official Mould King website or refer to the contact information provided in your product packaging. Please have your model number (10141) and proof of purchase ready when contacting support.
Specific warranty details may vary by region and retailer. Please consult your purchase documentation or the Mould King official channels for comprehensive warranty information.

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