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› [Mould King](#) /

› Mould King Heavy Crane Building Kit (Model 17007) Instruction Manual

## Mould King 17007

# Mould King Heavy Crane Building Kit (Model 17007) Instruction Manual

Model: 17007 | Brand: Mould King

## 1. INTRODUCTION

The Mould King Heavy Crane Building Kit, Model 17007, is an advanced engineering vehicle model designed for enthusiasts. This comprehensive kit consists of 8506 building block parts and features 20 motors, enabling various functions controlled via a dedicated mobile application. This manual provides detailed instructions for assembly, operation, maintenance, and troubleshooting to ensure a rewarding building and operating experience.



Figure 1: Fully assembled Mould King Heavy Crane Building Kit, Model 17007.

## 2. SETUP AND ASSEMBLY

Careful assembly is crucial for the proper functioning of your Mould King Heavy Crane. Follow the included paper instructions meticulously. The kit contains 8506 parts, and organizing them before starting can simplify the process.

### 2.1. Assembly Steps

Refer to the detailed, colorful paper instructions provided in your kit for step-by-step assembly. Ensure all connections are secure and parts are correctly oriented.



Figure 2: The Mould King Heavy Crane Building Kit in its assembled state, ready for operation.

## 2.2. Battery Installation and APP Connection

The crane model is powered by rechargeable lithium-ion batteries. Ensure these are fully charged before first use. Additionally, 1 AAA battery is included, likely for a small component or remote control if applicable, though primary control is via APP.

1. **Download the APP:** Scan the QR code provided in the kit or search for the "Mould King" APP on your mobile device's app store.
2. **Enable Bluetooth:** Turn on Bluetooth on your mobile device.
3. **Connect to Device:** Open the Mould King APP. Select "Manually select device" and choose the corresponding model (17007 or 17008, depending on your kit version).
4. **Activate Motors:** Open the first motor, then the second, and then the third, following the APP's prompts for connection.
5. **Initialize Axes:** Before operation, move all axes to their initial state as indicated in the APP, then confirm by clicking "OK".



Figure 3: The Mould King APP interface, showing device selection and control options.

Your browser does not support the video tag.

Video 1: Demonstrates the APP connection process and initial setup for the Mould King Heavy Crane.

### 3. OPERATING INSTRUCTIONS

The Mould King Heavy Crane offers a range of realistic movements and functions controlled via the mobile application. Familiarize yourself with the APP interface before operating the model.

#### 3.1. Basic Vehicle Movement

- **Forward/Backward:** Use the designated controls on the APP to move the crane truck forward or backward.
- **Turn Left/Right:** Steer the crane by using the left and right turn controls. The model features 18-wheel steering for precise maneuvering.

#### 3.2. Crane Functions

The APP provides controls for various crane operations:

- **Leg Extension:** Extend the support legs (outriggers) for stability during crane operation. Ensure the legs are fully extended and lowered before lifting heavy loads.
- **Boom Telescoping:** Control the precise extension and retraction of the main boom.
- **Upper Structure Rotation:** Rotate the crane's upper structure 360 degrees for optimal positioning.
- **Main Boom Rise/Lower:** Adjust the angle of the main boom.
- **Fly Arm Rise/Lower:** Control the secondary fly arm for extended reach.
- **Lifting Hook:** Lift and lower the hook to manage loads.



Figure 4: Key functional areas of the crane, including cab rotation, boom telescoping, 360-degree rotation, and support leg deployment.

Your browser does not support the video tag.

Video 2: Demonstrates various operational features of the Mould King Heavy Crane, including leg extension, boom movement, and hook operation.

## 4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your building kit.

- **Cleaning:** Use a soft, dry cloth to gently wipe down the model. Avoid using harsh chemicals or abrasive materials that could damage the plastic.
- **Battery Care:** For rechargeable lithium-ion batteries, follow the manufacturer's guidelines for charging and storage. Do not overcharge or allow batteries to fully discharge for extended periods.
- **Part Inspection:** Periodically inspect all connections and moving parts for any signs of wear or looseness. Re-secure any loose parts to prevent damage during operation.
- **Storage:** Store the model in a cool, dry place away from direct sunlight and extreme temperatures to prevent material degradation.

## 5. TROUBLESHOOTING

If you encounter issues with your Mould King Heavy Crane, refer to the following common solutions:

Problem	Possible Cause	Solution
Model does not respond to APP control.	<ul style="list-style-type: none"> <li>• Bluetooth not connected.</li> <li>• Motors not activated or connected in APP.</li> <li>• Low battery.</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure Bluetooth is enabled and the device is paired.</li> <li>• Follow APP connection steps (Section 2.2) to activate and connect motors.</li> <li>• Charge the rechargeable lithium-ion batteries.</li> </ul>
Parts are loose or fall off during operation.	<ul style="list-style-type: none"> <li>• Incorrect assembly.</li> <li>• Connections not fully secured.</li> </ul>	<ul style="list-style-type: none"> <li>• Review the assembly instructions carefully for the affected section.</li> <li>• Ensure all building blocks are firmly pressed together.</li> </ul>
Crane functions (boom, hook, legs) are not moving smoothly.	<ul style="list-style-type: none"> <li>• Obstruction in moving parts.</li> <li>• Motor or gear misalignment.</li> <li>• Low battery.</li> </ul>	<ul style="list-style-type: none"> <li>• Check for any foreign objects or misaligned parts.</li> <li>• Inspect gears and motor connections for proper alignment.</li> <li>• Charge the rechargeable lithium-ion batteries.</li> </ul>

## 6. SPECIFICATIONS

Feature	Detail
Model Number	17007
Brand	Mould King
Number of Pieces	8506
Motors	20 (various types including HXM, MKH4.0, MKH6.0, HL, L, Servo, XL, M)
Control Method	APP Control
Power Source	Rechargeable Lithium-ion Batteries (for main functions), 1 AAA battery (included)
Material	ABS Plastic

Feature	Detail
Assembled Dimensions	Approximately 47.64 x 19.69 x 12.6 inches (121cm x 50.7cm x 32.8cm)
Item Weight	13.6 Kilograms
Educational Objective	Engineering Skills, STEM



Figure 5: Product dimensions and a breakdown of the included motor types.

## 7. WARRANTY AND SUPPORT

For any missing parts, technical assistance, or warranty inquiries, please contact Mould King customer support directly. Refer to the contact information provided in your product packaging or on the official Mould King website. Keep your purchase receipt and model number (17007) handy for faster service.

The product includes an instruction manual for assembly and operation.

