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ROBOTIME LK506

ROBOTIME LK506 Open Closed Sign 3D Puzzle Instruction Manual

Model: LK506 | Brand: ROBOTIME

INTRODUCTION

This manual provides detailed instructions for assembling and operating your ROBOTIME LK506 Open Closed Sign 3D Puzzle. Designed for beginners, this mechanical wooden model offers an enjoyable and educational building experience, culminating in a functional and aesthetic decor piece. It is suitable for ages 14 and up.



Figure 1: The completed ROBOTIME LK506 Open Closed Sign 3D Puzzle.

WHAT'S INCLUDED

Your ROBOTIME LK506 package contains all the necessary components for assembly. Please verify that all items are present before beginning the assembly process.

- Instruction Book
- Laser Cut Wood Pieces (52 pieces)

A EASY BUT FUN BUILD WITH 52 PIECES



Figure 2: Unpacked components of the LK506 kit, showing the laser-cut wooden sheets and the instruction manual.

ASSEMBLY INSTRUCTIONS

The assembly process for the LK506 model is designed to be straightforward for beginners, with an estimated completion time of approximately 1 hour. Follow the detailed steps provided in the included instruction book. Handle all wooden pieces with care to prevent breakage.

Step 1: Prepare the Pieces

Carefully detach all laser-cut wooden pieces from their sheets. Use a small tool or your fingers to gently push them out. Organize the pieces by their designated numbers or shapes as indicated in the instruction book.



Figure 3: Organized wooden pieces and tools on a workspace, ready for assembly.

Step 2: Follow the Instruction Book

The included instruction book provides step-by-step diagrams and guidance for connecting each piece. Pay close attention to the orientation and connection points. Some joints may require gentle pressure to fit securely.



Figure 4: A close-up of hands assembling a wooden component, demonstrating the precision required.

Step 3: Assemble the Gear Mechanism

The core of the LK506 is its gear-driven mechanism. Ensure all gears are aligned correctly and rotate smoothly as you assemble them. This is crucial for the proper functioning of the "Open" and "Closed" display.



Figure 5: Detailed diagram illustrating the internal gear mechanism and how it transitions between "Open" and "Closed" states.

Step 4: Final Assembly and Testing

Once all pieces are connected, perform a final check to ensure stability and smooth operation of the mechanism. Gently rotate the handle to confirm the "Open" and "Closed" signs transition correctly.

OPERATING INSTRUCTIONS

The ROBOTIME LK506 Open Closed Sign is simple to operate. Once assembled, place the model on a flat, stable surface.

- To switch the sign, locate the designated handle on the side of the model.
- Gently rotate the handle. The internal gears will engage, causing the display to smoothly transition from "Open" to "Closed" or vice versa.
- Ensure the handle is rotated fully to lock the sign into either the "Open" or "Closed" position.



Figure 6: A hand demonstrating the rotation of the handle to switch the sign's display.

MAINTENANCE

To ensure the longevity and smooth operation of your ROBOTIME LK506 sign, follow these simple maintenance guidelines:

- **Cleaning:** Dust the model regularly with a soft, dry cloth. Avoid using abrasive cleaners or excessive moisture, which can damage the wood.
- **Storage:** Store the model in a dry environment, away from direct sunlight or extreme temperature fluctuations, to prevent warping or cracking of the wood.
- **Joint Stability:** While the kit includes adhesive, some users may find additional wood glue beneficial for long-term stability of certain joints, especially if the sign is frequently handled. Apply sparingly to connection points if needed.
- **Mechanism Care:** If the gear mechanism feels stiff over time, a very small amount of dry lubricant (e.g., graphite powder) can be applied to the gear teeth, but this is rarely necessary for this model.

TROUBLESHOOTING

If you encounter any issues during assembly or operation, consider the following common solutions:

Problem	Possible Cause / Solution
Pieces do not fit together	Ensure you are using the correct pieces as indicated in the instruction book. Check for any burrs on the laser-cut edges that might prevent a smooth fit; these can often be gently removed.
Mechanism is stiff or not moving smoothly	Verify that all gears are correctly aligned and seated. Ensure no pieces are rubbing against each other unnecessarily. Re-check the assembly steps for the gear mechanism.

Problem	Possible Cause / Solution
Sign does not fully switch between "Open" and "Closed"	Confirm that the handle is rotated completely. Check for any obstructions in the gear path or if any pieces are loose, preventing full rotation.
Pieces break during assembly	Wooden pieces, especially thin ones, can be fragile. Apply gentle, even pressure when assembling. If a piece breaks, contact ROBOTIME support for possible replacements.

SPECIFICATIONS

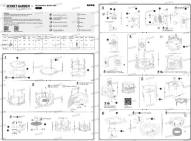
Feature	Detail
Product Dimensions	9 x 6 x 0.04 inches
Item Weight	8.8 ounces
Item Model Number	RBT-LK506
Manufacturer Recommended Age	14 years and up
Estimated Assembly Time	1 hour
Number of Pieces	52
Country of Origin	China
Manufacturer	ROBOTIME

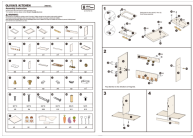
WARRANTY AND SUPPORT

ROBOTIME is committed to providing high-quality products and comprehensive customer support. If you encounter any challenges during the assembly process, have questions about your product, or require assistance with missing or broken parts, please do not hesitate to contact ROBOTIME customer service. Your satisfaction is our utmost priority.

For support, please visit the official ROBOTIME website or refer to the contact information provided in your product packaging.

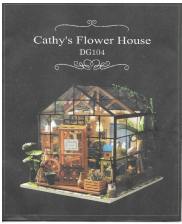
Related Documents - LK506

	<p>ROKR AMK52 Secret Garden DIY Mechanical Music Box Assembly Instructions</p> <p>Comprehensive assembly instructions for the ROKR AMK52 Secret Garden DIY Mechanical Music Box by Robotime. This guide provides a detailed walkthrough of the assembly process, including a parts list, step-by-step instructions, and helpful tips for a successful build.</p>
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[Olivia's Kitchen Assembly Instructions - ROBOTIME WCF09](#)

Detailed assembly instructions for the ROBOTIME Olivia's Kitchen play set (Model WCF09). Includes parts list, step-by-step guidance, and safety warnings for building this wooden toy kitchen.



[Cathy's Flower House DG104: Miniature DIY Assembly Guide](#)

Comprehensive assembly instructions for the Cathy's Flower House DG104 miniature DIY craft kit by Robotime. This guide provides detailed steps, tips, and part lists to help you build your own charming flower house.

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This Declaration of Conformity has been made by the signatories on the basis of the information provided by the manufacturer. The signatories accept full responsibility for the accuracy of the information provided. The signatories accept full responsibility for the accuracy of the information provided. The signatories accept full responsibility for the accuracy of the information provided.		
Product Name	Product Code	Product Picture
Tree Bridge	70101	
Big Sky	70102	
Long River	70103	
Star 12	70104	
Star 12	70105	
Star 12	70106	
Star 12	70107	

[Robotime EC Declaration of Conformity - Product List and Compliance](#)

Official EC Declaration of Conformity from Robotime Technology (Suzhou) CO., LTD, listing compliant wooden model kits, their product details, and applicable harmonized standards and test reports.

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Product Name	Product Code	Product Picture
Mind-Find Bookstore	80101	
Holiday Party Time	80102	
Spring Festival Festival	80103	
Spring Festival Festival	80104	
Spring Festival Festival	80105	
Spring Festival Festival	80106	

[Robotime EC Declaration of Conformity - Miniature House Kits](#)

Official EC Declaration of Conformity for Robotime Technology (Suzhou) Co., Ltd.'s range of DIY miniature house kits, including models like Mind-Find Bookstore, Holiday Party Time, and more, compliant with harmonized standards.



[ROKR Marble Night City LGA01 3D Wooden Puzzle Assembly Instructions](#)

Detailed assembly instructions for the ROKR Marble Night City LGA01 3D Wooden Puzzle. Learn how to build this intricate mechanical model step-by-step, including parts list, tools, and troubleshooting.