

ROBOTIME LC701

ROBOTIME LC701 Mechanical Wooden Wall Clock Kit Instruction Manual

Model: **LC701** | Brand: **ROBOTIME**

1. INTRODUCTION

This instruction manual provides detailed guidance for the assembly, operation, and maintenance of your ROBOTIME LC701 Mechanical Wooden Wall Clock Kit. This kit allows you to construct a functional wall clock featuring a gear-driven mechanism, a gravity pendulum, and a precise quartz movement for accurate timekeeping.

The finished clock serves as both a decorative item and a time-telling device, combining intricate mechanical design with aesthetic appeal.

2. PACKAGE CONTENTS

Before beginning assembly, please verify that all components listed below are present in your kit. The kit contains **231 pieces** for self-assembly.

- Pre-cut wooden sheets (various parts for clock structure, gears, pendulum)
- Quartz clock movement
- Clock hands
- Strings/threads for pendulum and weights
- Small hardware (screws, nails, hooks)
- Assembly instructions booklet
- Sanding paper and wax (for lubrication)

Note: One (1) AA battery is required for the quartz movement and is not included in the package. Please prepare this separately.

EVERYTHING YOU NEED

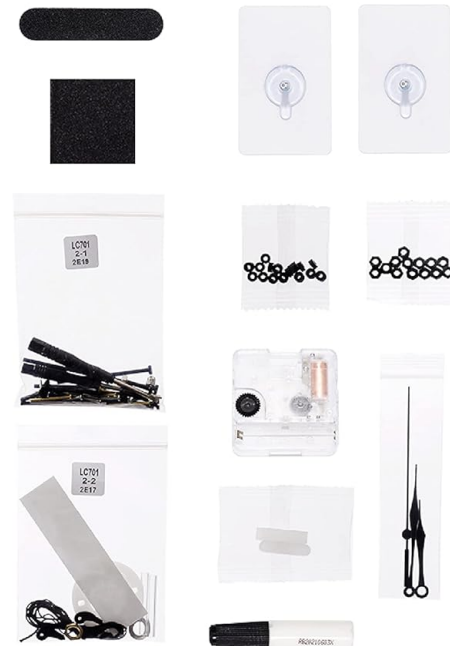
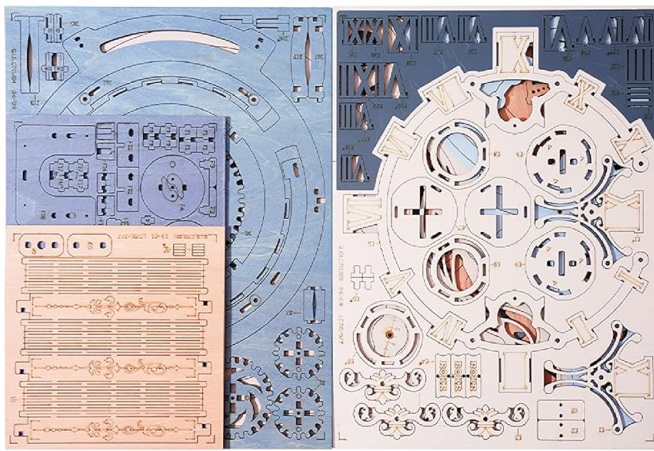


Image: All components included in the ROBOTIME LC701 kit, laid out for inspection.

3. ASSEMBLY INSTRUCTIONS

Follow the detailed step-by-step instructions provided in the included booklet. No glue is typically required for assembly, as parts are designed to interlock. Exercise care when handling delicate wooden pieces.

General Assembly Steps:

1. **Preparation:** Carefully detach all wooden pieces from their sheets. Use the provided sanding paper to gently smooth any rough edges or burs. Apply wax to the gears and moving parts as instructed to reduce friction and ensure smooth operation.
2. **Structural Assembly:** Begin by assembling the main frame and internal gear mechanisms according to the numerical sequence in the instruction booklet. Pay close attention to the orientation of each piece.
3. **Quartz Movement Installation:** Integrate the quartz clock movement into its designated slot within the clock's structure. Ensure it is securely fitted.
4. **Pendulum and Weight Assembly:** Assemble the gravity pendulum and the clock weight. Attach the strings/threads as shown in the diagrams, ensuring they run freely through the mechanism.

5. **Final Touches:** Attach the clock hands to the quartz movement. Verify all connections are secure and moving parts operate without obstruction.



Image: Detailed view of the structural physical assembly process.



2007

Year of foundation

400+

Models & miniature released

100M+

Global fans

140+

Countries to find

Image: Continuing the assembly of the clock's internal layers.



Image: The built-in quartz movement, responsible for accurate timekeeping.



Image: Mounting hardware for securing the clock to a wall.

Assembly Overview Video:

Video: An official overview of the ROBOTIME Wooden Wall Clock Kit, demonstrating key assembly steps and features.

4. OPERATING INSTRUCTIONS

Once assembled, your ROBOTIME LC701 clock is ready for operation. The clock features a quartz

movement for accurate time display and a gravity-driven pendulum for visual appeal and mechanical engagement.

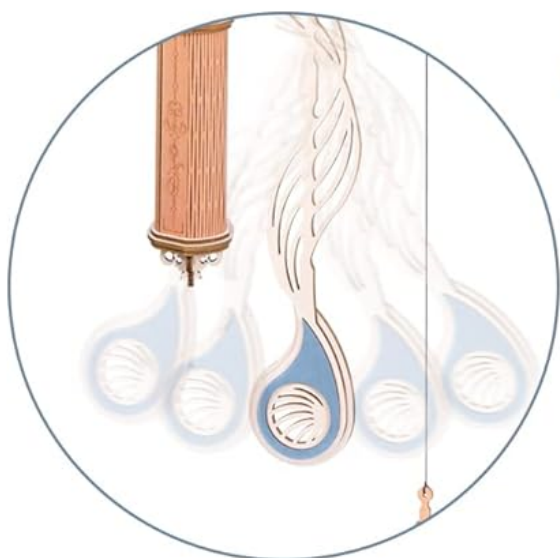
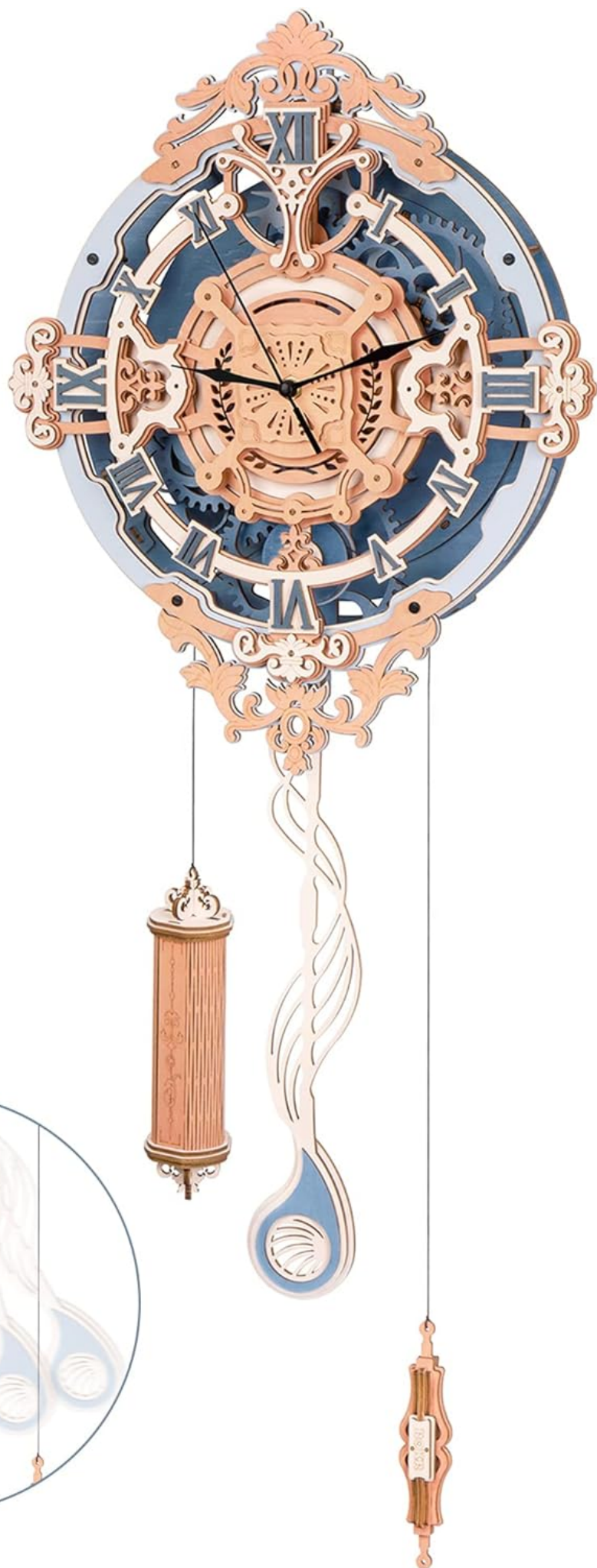
Setting the Time:

Insert one (1) AA battery into the quartz movement compartment. Use the small dial on the back of the quartz movement to set the correct time. Avoid moving the clock hands directly, as this may damage the mechanism.

Winding and Starting the Pendulum:

The pendulum mechanism is gravity-driven and requires manual winding. To ensure proper function, follow these steps:

1. **Fill the Clock Weight:** The hollow clock weight needs to be filled with approximately **300-450g** of high-density metal parts (e.g., coins, small screws, nuts). Ensure the weight is compact and balanced.
2. **Pull the Weight:** Gently pull the string attached to the clock weight downwards to raise the weight. Hold the clock weight with your hand to prevent sudden drops.
3. **Adjust for Swing:** Once the weight is raised, adjust the horizontal rotary plate and thumb screws on the clock's mechanism to ensure the pendulum can swing freely without obstruction.
4. **Initiate Swing:** Gently push the pendulum to start its swing. The gears should begin to move, creating the characteristic ticking sound.



Two-way Balanced Design Self-adjusting Center of Gravity



Image: Demonstrating the bi-directional horizontal adjusting mechanism for optimal pendulum swing.

5. MAINTENANCE

Regular maintenance will help preserve the functionality and appearance of your wooden wall clock.

- **Cleaning:** Dust the clock regularly with a soft, dry cloth. Avoid using abrasive cleaners or excessive moisture, which can damage the wood.
- **Lubrication:** Periodically reapply wax or a suitable furniture-grade lubricant to the wooden gears and moving parts to ensure smooth operation and prevent wear. Avoid lubricants containing water or grease that could cause wood swelling.

- **Battery Replacement:** Replace the AA battery in the quartz movement when the clock hands stop moving or timekeeping becomes inaccurate.
- **Pendulum String Inspection:** Periodically check the strings/threads for any signs of fraying or wear. Replace if necessary to prevent the weight from dropping unexpectedly.

6. TROUBLESHOOTING

If you encounter any issues with your ROBOTIME LC701 clock, refer to the table below for common problems and their solutions.

Problem	Possible Cause	Solution
Pendulum does not swing or stops quickly.	Clock is not level; insufficient lubrication; weight not heavy enough or improperly filled; obstruction in mechanism.	Ensure the clock is perfectly level on the wall. Reapply wax/lubricant to gears. Verify clock weight is filled with 300-450g of dense metal. Check for any parts obstructing the pendulum's path.
Clock hands are not moving or time is inaccurate.	Dead or low battery; quartz movement improperly installed; hands obstructed.	Replace the AA battery. Recheck the installation of the quartz movement. Ensure clock hands are not touching each other or the clock face.
Gears are stiff or making grinding noises.	Lack of lubrication; burs on wooden parts.	Apply wax or appropriate lubricant to all gear contact points. Gently sand any remaining burs on gear teeth.

7. SPECIFICATIONS

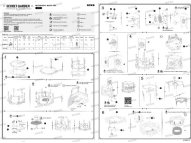
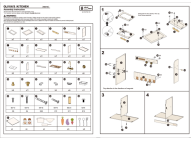
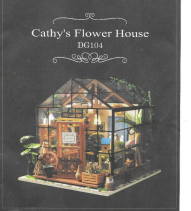



- **Brand:** ROBOTIME
- **Model:** LC701
- **Material:** Wood, Metal
- **Assembly Pieces:** 231
- **Assembled Dimensions:** 11.7 inches (W) x 25.3 inches (H)
- **Power Source:** 1 AA Battery (not included)
- **Display Type:** Analog
- **Operation Mode:** Mechanical (pendulum), Quartz (timekeeping)
- **Recommended Age:** 14 years and up

8. WARRANTY AND SUPPORT

ROBOTIME is committed to providing quality products and customer satisfaction. While specific warranty details are not provided in this manual, if you encounter any problems or require assistance with your LC701 Mechanical Wooden Wall Clock Kit, please do not hesitate to contact our customer support. We are dedicated to providing professional after-sales service to ensure your enjoyment of our product.

For support, please refer to the contact information provided with your purchase or visit the official ROBOTIME website.

Related Documents - LC701

	<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>
	<p>Olivia's Kitchen Assembly Instructions - ROBOTIME WCF09</p> <p>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.</p>
	<p>Cathy's Flower House DG104: Miniature DIY Assembly Guide</p> <p>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.</p>
	<p>Robotime EC Declaration of Conformity - Miniature House Kits</p> <p>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.</p>
	<p>ROKR LK503 Owl Clock 3D Wooden Puzzle Mechanical Model Assembly Instructions</p> <p>Detailed assembly instructions for the ROKR LK503 Owl Clock, a 3D wooden mechanical puzzle. Learn how to build this intricate clock model with step-by-step guidance, parts list, and troubleshooting tips.</p>
	<p>ROKR Marble Night City LGA01 3D Wooden Puzzle Assembly Instructions</p> <p>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.</p>

