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› ROBOTIME Marble Night City 3D Wooden Marble Run Model LGA01 Instruction Manual

## ROBOTIME LGA01

# ROBOTIME Marble Night City 3D Wooden Marble Run Instruction Manual

Model: LGA01

## 1. INTRODUCTION

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This manual provides detailed instructions for the assembly, operation, and maintenance of your ROBOTIME Marble Night City 3D Wooden Marble Run, Model LGA01. This intricate model kit combines engineering principles with creative design, offering an engaging building experience and a fascinating display piece. Please read all instructions carefully before beginning assembly.

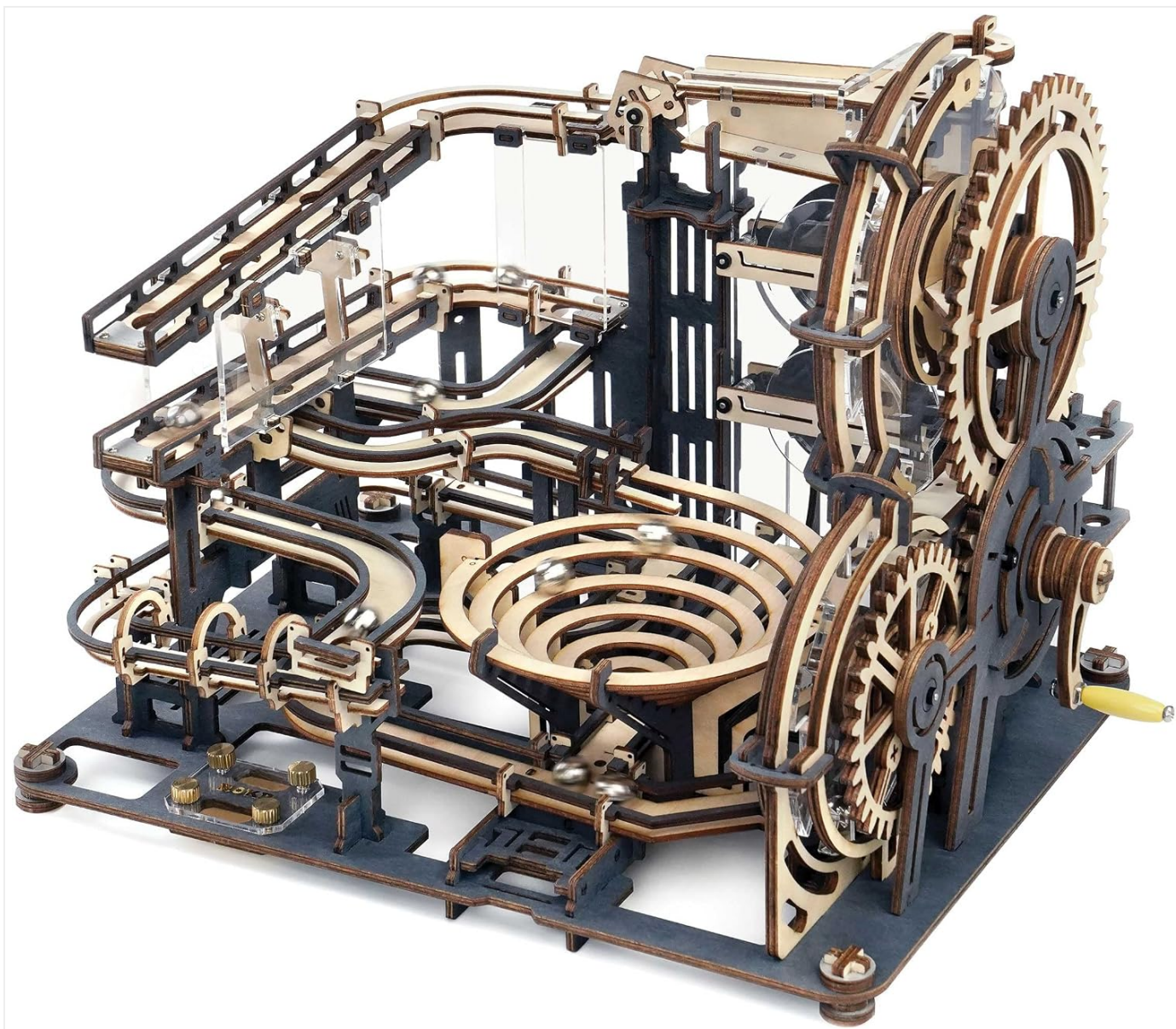


Figure 1.1: The fully assembled ROBOTIME Marble Night City 3D Wooden Marble Run. This image displays the complex wooden structure with gears, tracks, and marbles in motion, highlighting the intricate design and mechanical functionality.

## 2. SAFETY INFORMATION

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- **Choking Hazard:** This product contains small parts and is not suitable for children under 3 years of age. Keep all components away from infants and young children.
- **Sharp Edges:** Some wooden pieces may have sharp edges. Handle with care during assembly.
- **Adult Supervision:** Assembly is recommended for individuals aged 14 and above. Younger users should have adult supervision.
- **Ventilation:** If using adhesive (not included, but sometimes recommended for stability), ensure adequate ventilation.
- **Disposal:** Dispose of packaging materials responsibly.

## 3. PACKAGE CONTENTS

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Before starting assembly, verify that all components are present and undamaged. Refer to the parts list provided in the assembly instructions booklet.



Figure 3.1: Overview of the kit contents, including the product box, the detailed assembly instruction manual, and several laser-cut wooden sheets containing the model's components.

- Pre-cut Wooden Sheets (294 pieces)
- Steel Marbles (10 pieces)
- Assembly Instruction Manual
- Accessory Bag (includes small components like shafts, sleeves, etc.)

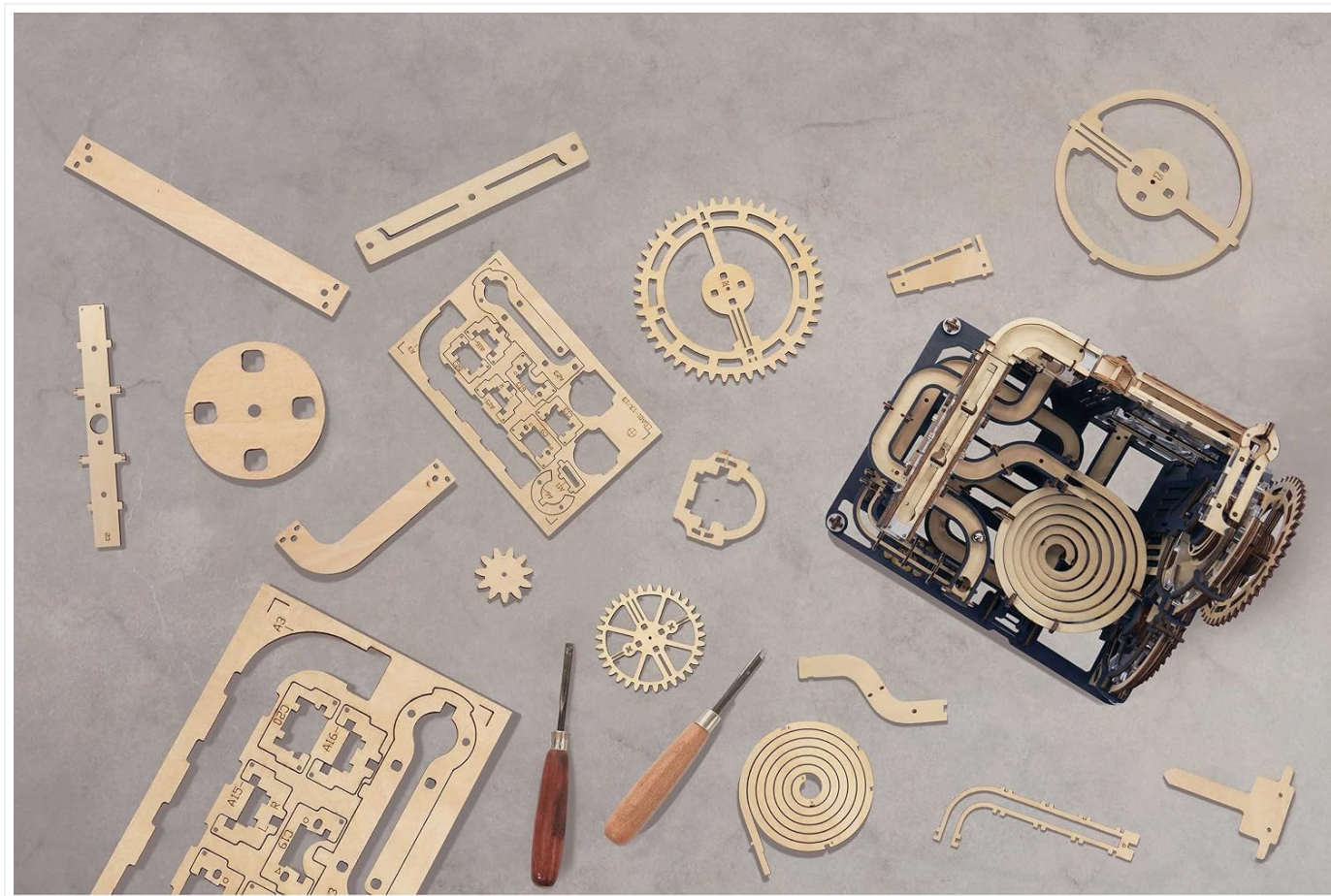


Figure 3.2: A selection of laser-cut wooden components, including gears, tracks, and structural elements, along with small assembly tools, demonstrating the variety of parts included in the kit.

## 4. SETUP AND ASSEMBLY

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Assembly time is approximately 7 hours. Patience and attention to detail are crucial for a successful build.

### 4.1 Preparation

1. **Clear Workspace:** Prepare a clean, well-lit, and spacious work area.
2. **Review Instructions:** Carefully read through the entire assembly manual before detaching any pieces. Familiarize yourself with the steps and component identification.
3. **Identify Parts:** The wooden pieces are numbered. Match these numbers with the visuals in the manual.
4. **Tools (Optional but Recommended):** A small craft knife or sandpaper may be useful for smoothing edges or detaching pieces cleanly. Wood glue (not included) can be used for added stability on certain joints, but is generally not required.

### 4.2 Assembly Steps

Follow the step-by-step diagrams and instructions provided in the included physical manual. The general process involves:

1. **Detaching Pieces:** Gently push out the pre-cut wooden pieces from their sheets. If a piece is difficult to remove, use a craft knife to carefully cut the connecting points.
2. **Sanding (Optional):** Lightly sand any rough edges for a smoother fit and finish.
3. **Connecting Components:** Assemble pieces according to the numbered steps and diagrams. Pay close attention to the orientation of each piece.
4. **Gears and Mechanisms:** Ensure all gears and moving parts are assembled loosely enough to rotate freely, but

securely enough to stay in place. Do not force connections.

5. **Testing Movement:** Periodically test the movement of sub-assemblies as you build to ensure proper function before proceeding to the next steps.

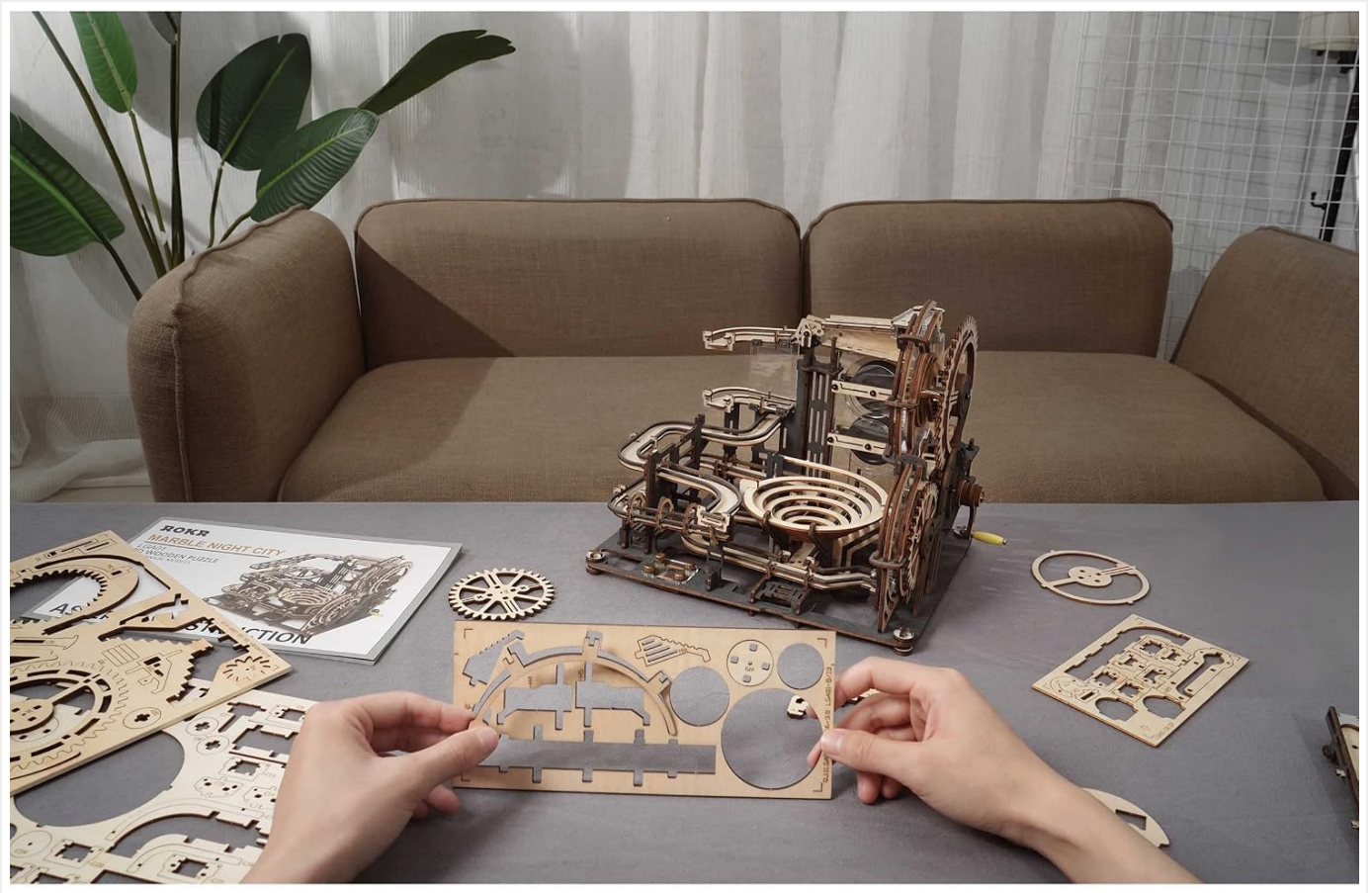


Figure 4.1: A person carefully assembling a section of the marble run, demonstrating the hands-on nature of the building process and the precision required for fitting the wooden components.

## 5. OPERATING INSTRUCTIONS

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Once assembly is complete, your Marble Night City is ready for operation.

1. **Place Marbles:** Carefully place the provided steel marbles into the designated marble entry point, usually at the base of the lifting mechanism.
2. **Crank the Handle:** Locate the hand crank on the side of the model. Gently and steadily rotate the handle. This action powers the gear transmission system, which lifts the marbles to the top of the track.
3. **Observe the Run:** Watch as the marbles descend through the various tracks, spirals, and switches. The continuous rotation of the handle will create an "infinite cycle" of marble movement.
4. **Smooth Operation:** If marbles get stuck, stop cranking and gently dislodge them. Ensure all moving parts are free from obstruction.

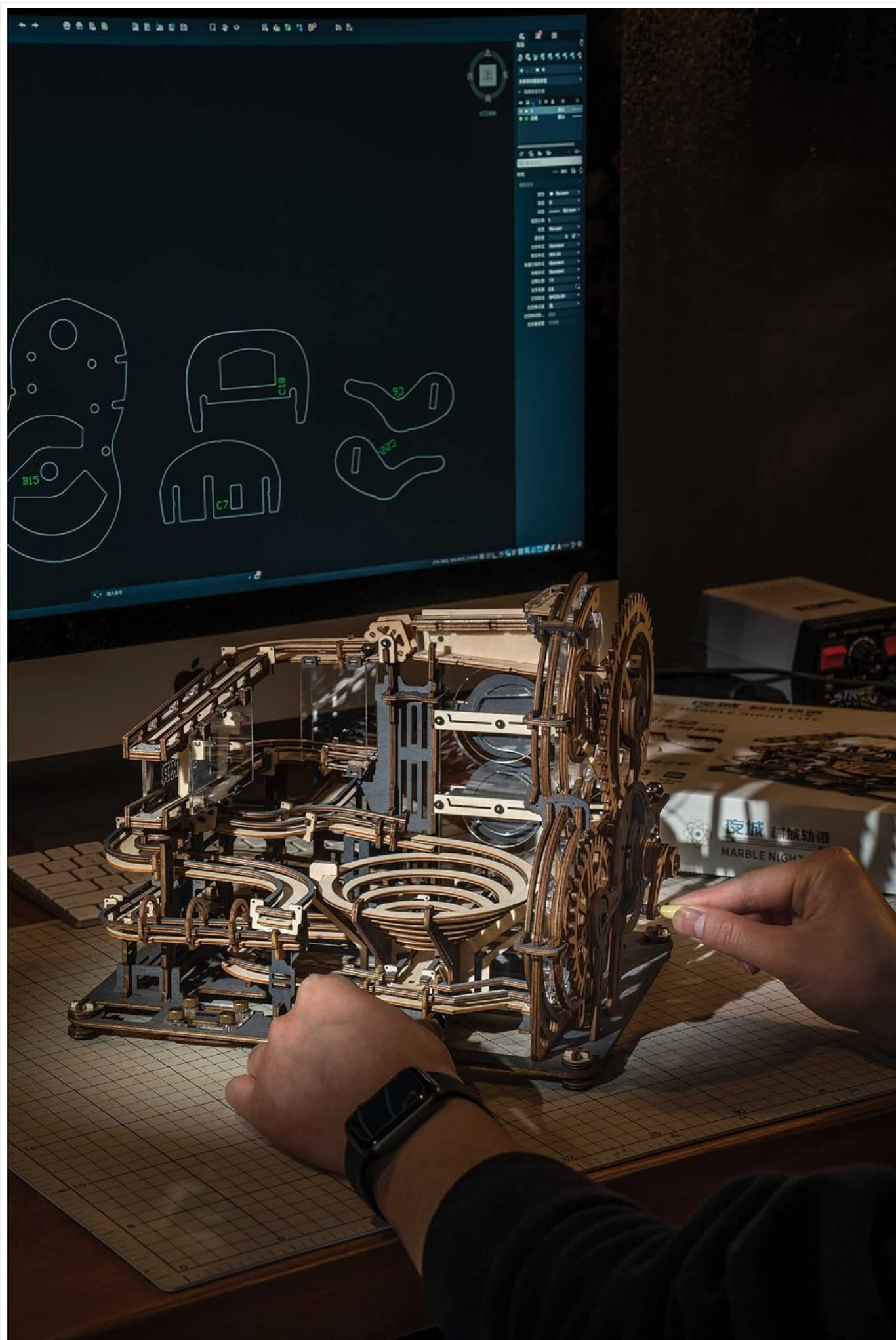


Figure 5.1: A hand turning the crank of the assembled marble run, illustrating the manual operation required to initiate and maintain the marble's journey through the intricate track system.

## 6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth or a small brush to gently remove dust from the wooden components and tracks. Avoid using water or chemical cleaners, as these can damage the wood.
- **Storage:** Store the assembled model in a dry environment, away from direct sunlight and extreme temperature changes, to prevent warping or damage to the wood.
- **Lubrication (Optional):** For smoother gear operation, a very small amount of dry lubricant (e.g., graphite powder) can be applied to gear teeth, but this is generally not necessary for typical use. Avoid oil-based lubricants.
- **Check Connections:** Periodically inspect all connections to ensure they remain secure. Re-seat any loose pieces if necessary.

## 7. TROUBLESHOOTING

| Problem                                   | Possible Cause                                                                                  | Solution                                                                                                                                                         |
|-------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Marbles get stuck on the track.           | Misaligned track pieces, rough edges, or debris on the track.                                   | Inspect track sections for proper alignment. Gently sand any rough spots. Clean the track with a soft brush.                                                     |
| Gears are stiff or do not turn smoothly.  | Tight connections, misaligned gears, or friction.                                               | Ensure gears are not pressed too tightly together. Check for any obstructions. Re-align gears if necessary. A small amount of dry lubricant can be applied.      |
| Lifting mechanism fails to raise marbles. | Improper assembly of the lifting mechanism, loose connections, or marbles not seated correctly. | Review the assembly steps for the lifting mechanism. Ensure all parts are securely connected and marbles are placed correctly.                                   |
| Model feels unstable.                     | Loose joints or incorrect base assembly.                                                        | Check all structural joints and ensure they are fully seated. If desired, apply a small amount of wood glue to non-moving structural joints for added stability. |

## 8. SPECIFICATIONS

- Model:** LGA01
- Brand:** ROBOTIME
- Material:** Wood, Acrylic, Steel
- Number of Pieces:** 294
- Assembled Dimensions (H x W x D):** 12.80 x 8.43 x 8.97 inches (32.5 x 21.4 x 22.8 cm)
- Approximate Assembly Time:** 7 hours
- Recommended Age:** 14+
- Item Weight:** 1.23 pounds (0.56 kg)

## 9. WARRANTY AND SUPPORT

ROBOTIME products are designed for quality and enjoyment. If you encounter any missing or damaged parts, or require

assistance with assembly, please contact ROBOTIME customer support. Refer to the contact information provided on the product packaging or the official ROBOTIME website for assistance.

Please retain your proof of purchase for any warranty claims.