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> Hands Craft Marble Night City Marble Run Mechanical Assembly Model Kit LGA01 User Manual

## Hands Craft LGA01

# Hands Craft Marble Night City Marble Run Mechanical Assembly Model Kit LGA01 User Manual

Brand: Hands Craft | Model: LGA01

## 1. INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your Hands Craft Marble Night City Marble Run Mechanical Assembly Model Kit, model LGA01. Please read this manual thoroughly before beginning assembly to ensure a smooth and enjoyable experience. This kit is designed to provide an engaging and educational building experience, resulting in a functional marble run.

## 2. SAFETY INFORMATION

- **Recommended Age:** This product is recommended for individuals 14 years and up.
- **Small Parts:** The kit contains small parts and marbles which may pose a choking hazard. Keep out of reach of children under 3 years of age.
- **Material Safety:** All components are made from high-quality, safe, and non-toxic natural plywood materials with smooth finishes.
- **Handling:** Handle wooden pieces with care to avoid breakage, especially during removal from the sheets.

## 3. PACKAGE CONTENTS

Verify that all the following items are included in your package:

- Wooden Sheets with Pre-cut Pieces
- Instruction Booklet
- Screws
- Screwdriver
- Marbles (10 steel balls)

- Washers

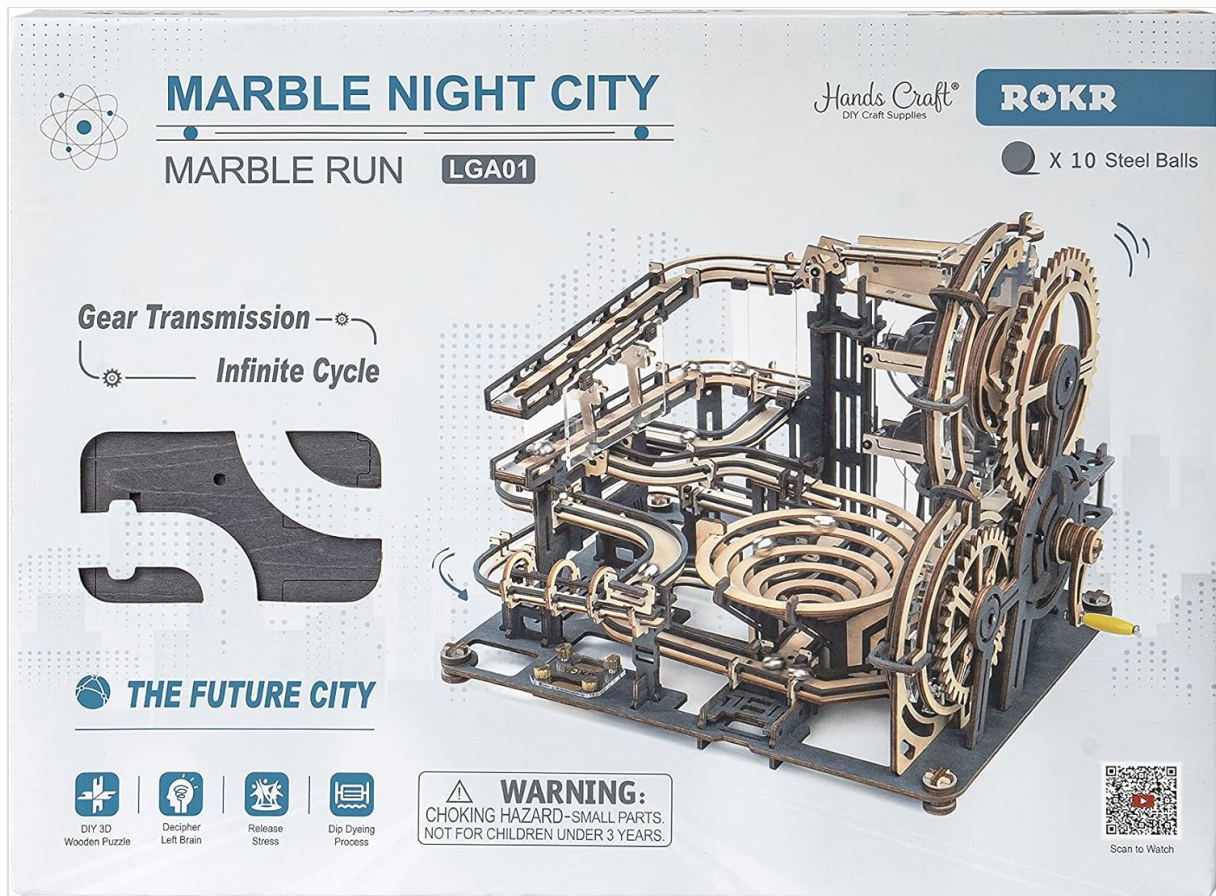


Image 3.1: The product box for the Hands Craft Marle Night City Marble Run, showing the assembled model and key features.

## 4. SETUP AND ASSEMBLY

The Marle Night City kit is designed for self-assembly without the need for additional tools or glue. Follow the step-by-step instructions provided in the included instruction booklet.

1. **Unpack Components:** Carefully remove all wooden sheets and other components from the packaging.
2. **Identify Pieces:** Refer to the instruction booklet to identify each piece. Pieces are laser-cut for precision and can be gently punched out from the wooden sheets.
3. **Follow Instructions:** Assemble the model by following the detailed diagrams and steps in the instruction booklet. Pay close attention to the orientation and connection points of each piece.
4. **Secure Connections:** Use the provided screws and screwdriver where indicated to secure mechanical parts. Ensure all connections are firm but do not overtighten.

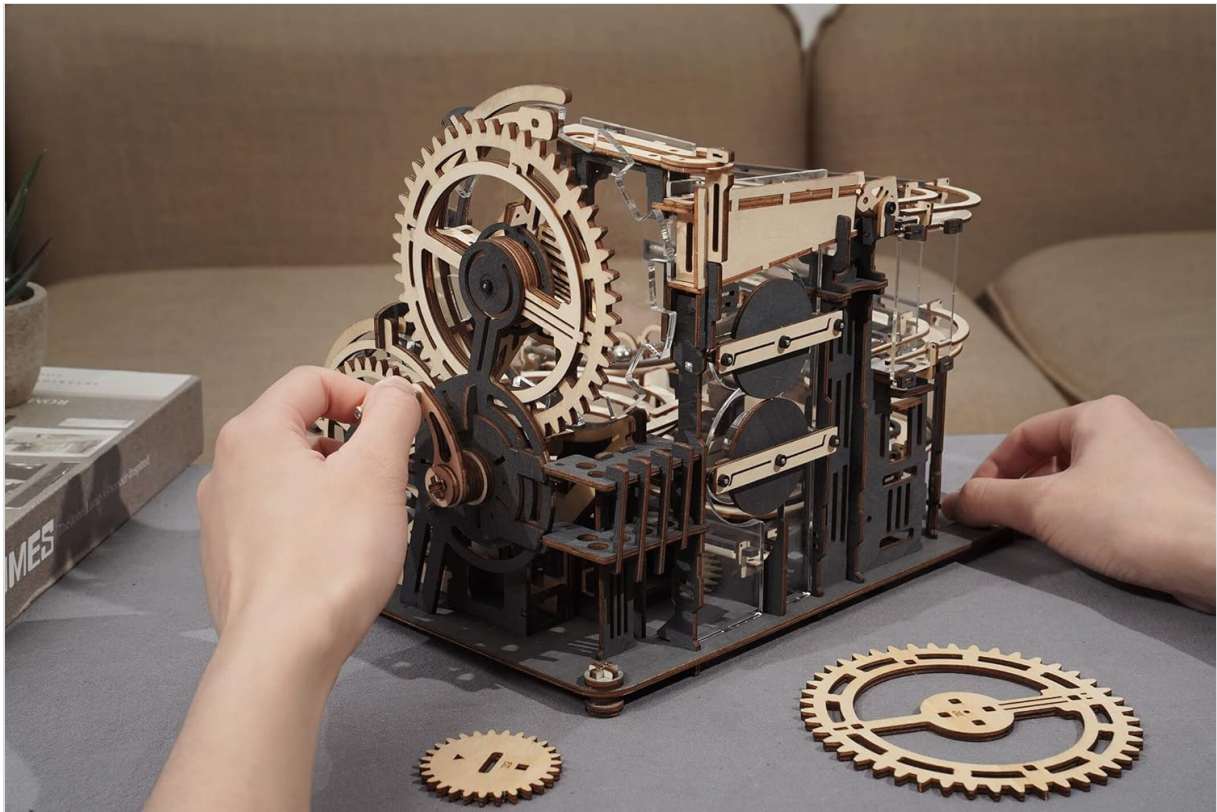


Image 4.1: A person's hands carefully assembling the wooden puzzle pieces of the marble run kit.



Image 4.2: An overview of the various laser-cut wooden components and gears laid out on a surface, ready for assembly.

## 5. OPERATING INSTRUCTIONS

Once fully assembled, the Marble Night City Marble Run operates through a series of interconnected gears, tracks, and lifts to create a continuous marble flow.

1. **Place Marbles:** Carefully place the provided steel marbles into the designated starting point or collection tray.

2. **Activate Mechanism:** Locate the hand crank on the side of the model. Gently turn the crank to activate the gear transmission system.
3. **Observe Flow:** Watch as the marbles are lifted by the mechanical system and then travel down the various tracks, spirals, and twists.
4. **Continuous Cycle:** The design allows for an infinite cycle, where marbles are continuously lifted and released onto the tracks as long as the crank is turned.

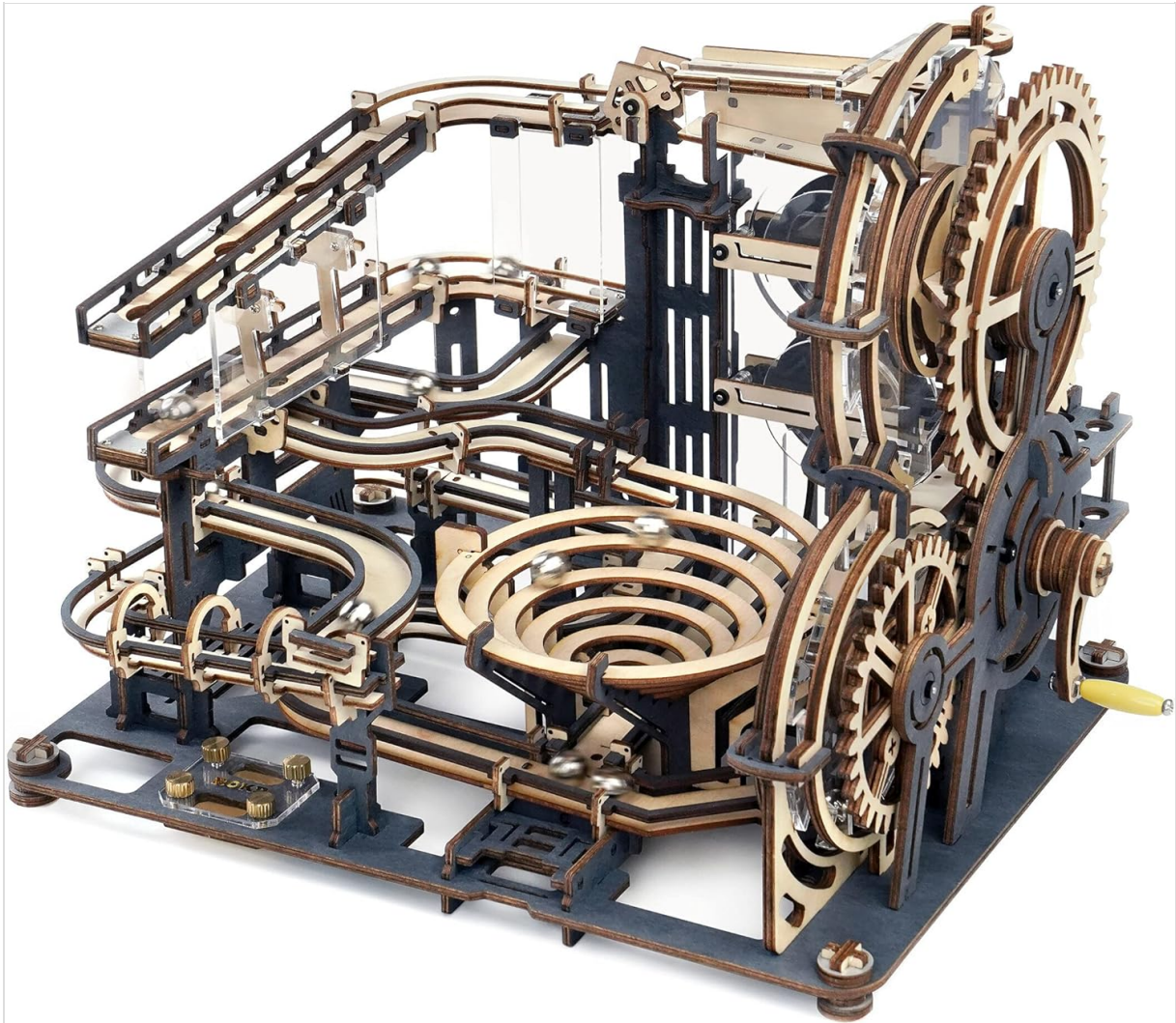


Image 5.1: The fully assembled Hands Craft Marble Night City Marble Run, showcasing its intricate tracks and gear system.



Image 5.2: A close-up view of a steel marble descending through the spiral track section of the marble run.



Image 5.3: A detailed shot of a marble navigating a curved section of the marble run's wooden tracks.

## 6. MAINTENANCE

To ensure the longevity and smooth operation of your Marble Night City Marble Run, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to gently wipe dust from the wooden surfaces. Avoid using water or cleaning solutions, as they may 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.
- **Inspection:** Periodically inspect all connections and moving parts to ensure they are secure and free from obstruction.
- **Lubrication:** The mechanical gears are designed for smooth operation without lubrication. Do not apply oils or greases, as this may attract dust and hinder performance.

## 7. TROUBLESHOOTING

If you encounter issues with your Marble Night City Marble Run, refer to the following common problems and solutions:

- **Marbles Stop or Slow Down:**
  - **Cause:** Ramps or tracks may not have the correct slope, or there might be friction points.
  - **Solution:** Carefully inspect the entire marble path. Ensure all track pieces are fully seated and aligned according to the instruction booklet. Verify that the base is on a level surface. Slight adjustments to the model's tilt by placing thin pads under the rear feet can sometimes improve marble flow if the issue persists after verifying assembly.
- **Upper Teetertotter Malfunction:**
  - **Cause:** The teetertotter mechanism may not be assembled correctly or is obstructed.
  - **Solution:** Re-examine the assembly of the upper teetertotter section using the instruction booklet. Ensure all pivot points are free-moving and that no pieces are binding. Verify that marbles are correctly triggering the mechanism.
- **Gears Not Turning Smoothly:**
  - **Cause:** Gears may be misaligned, obstructed, or too tightly assembled.
  - **Solution:** Check all gear connections for proper alignment. Ensure no foreign objects are caught between the teeth. If screws are used, ensure they are not overtightened, allowing for free rotation.

## 8. SPECIFICATIONS

Feature	Detail
Product Dimensions	12.79 x 8.42 x 8.97 inches
Item Weight	2.96 pounds
Item Model Number	LGA01
Manufacturer Recommended Age	14 years and up
Material	Natural Plywood
Marbles Included	10 Steel Balls

## 9. WARRANTY AND SUPPORT

This product is manufactured by Hands Craft US, Inc. For any questions, concerns, or support needs regarding your Marble Night City Marble Run, please refer to the contact information provided with your

purchase or visit the official Hands Craft website. While specific warranty details are not provided in this manual, Hands Craft is committed to customer satisfaction.

You can also visit the [Hands Craft Store on Amazon](#) for more information and to explore other products.

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