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> ROBOTIME Motorized Marble Run Combination Set Instruction Manual (Models LGC01, LGA01, LG01)

ROBOTIME RBT-LGX02 (LGC01, LGA01, LG01)

ROBOTIME Motorized Marble Run Combination Set Instruction Manual

Models: LGC01 Marble Spaceport, LGA01 Marble Night City, LG01 Link Pack (RBT-LGX02)

1. INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your ROBOTIME Motorized Marble Run Combination Set. This set includes the LGC01 Marble Spaceport, LGA01 Marble Night City, and the LG01 Link Pack, designed to be combined into an intricate and engaging marble maze. Please read these instructions carefully before beginning assembly to ensure a smooth and enjoyable building experience.

2. SAFETY INFORMATION

- **Small Parts Warning:** This product contains small parts and is not suitable for children under 3 years due to choking hazards.
- **Age Recommendation:** Recommended for individuals 14 years and older. Adult supervision is advised for younger builders.
- **Material Handling:** The components are made of basswood. Handle with care to avoid splinters or breakage.
- **Electrical Components:** The LGC01 Marble Spaceport includes a motor. Ensure proper battery installation and avoid contact with water.
- **Sharp Edges:** Some laser-cut parts may have slightly sharp edges. Exercise caution during assembly.
- **Ventilation:** Assemble in a well-ventilated area.

3. PACKAGE CONTENTS

Your ROBOTIME Motorized Marble Run Combination Set (Model RBT-LGX02) includes the following main components:

- **LGC01 Marble Spaceport Kit:** Contains all parts for the motorized Marble Spaceport.
- **LGA01 Marble Night City Kit:** Contains all parts for the Marble Night City.

- **LG01 Link Pack:** Contains additional parts to connect the LGC01 and LGA01 models.
- Detailed step-by-step instruction manuals for each kit.
- Necessary accessories (e.g., marbles, motor, wires, LED lights).

Please verify all parts are present and undamaged upon opening the package. Refer to the individual kit manuals for specific part lists.

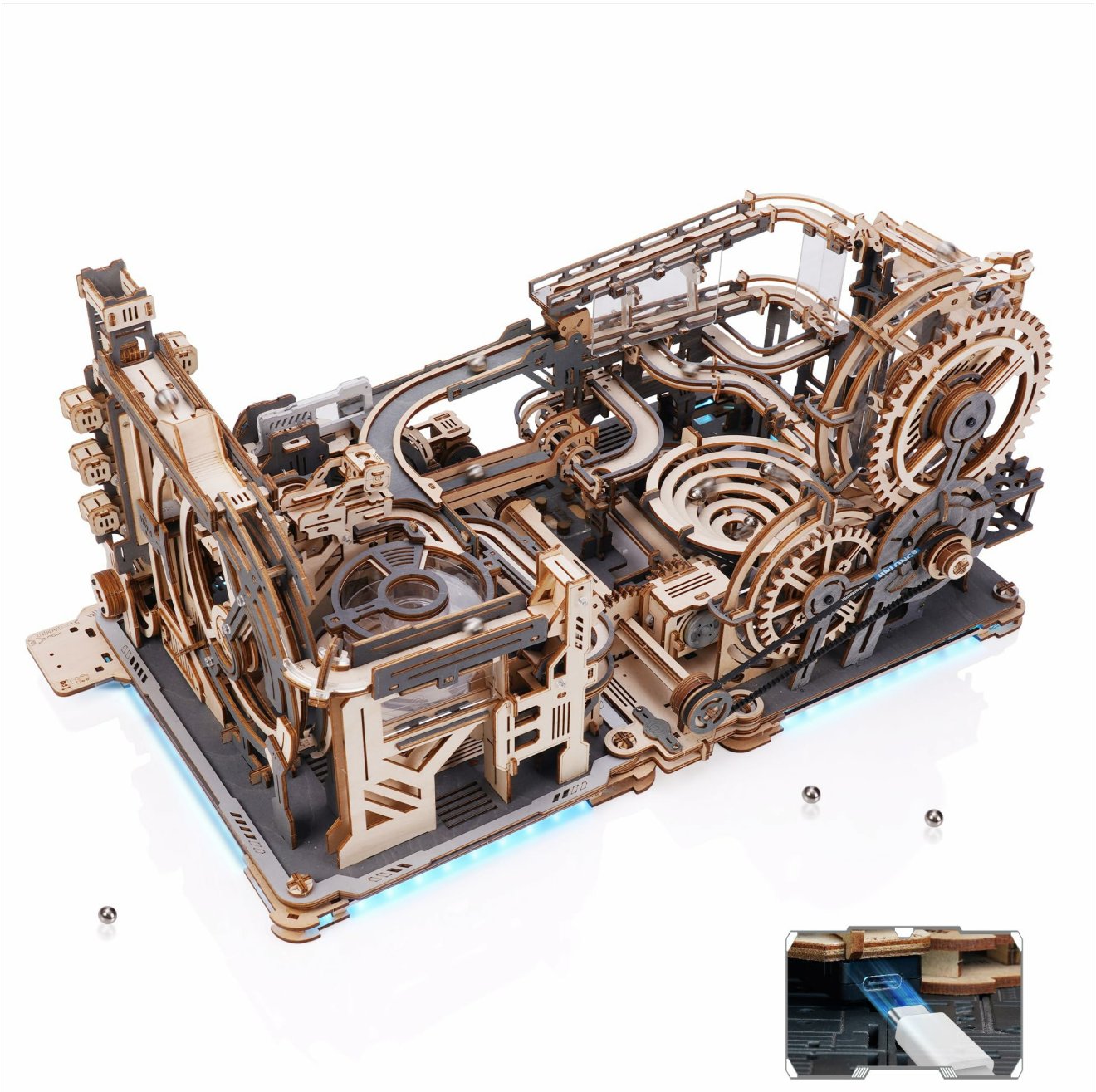


Image: Overview of the ROBOTIME Marble Run Combination Set components, including the LGC01 Marble Spaceport, LGA01 Marble Night City, and the LG01 Link Pack, ready for assembly.

4. ASSEMBLY INSTRUCTIONS

The assembly process for this combination set is extensive and typically requires 10+ hours. Follow the individual instruction manuals provided for the LGC01 Marble Spaceport, LGA01 Marble Night City, and LG01 Link Pack meticulously.

1. Preparation:

- Unpack all components and lay them out on a clean, flat surface.
- Familiarize yourself with the tools required (not included, e.g., small knife for delicate parts, sandpaper

for smoothing edges if needed).

- Review the instruction manuals for each kit before starting.

2. Part Identification:

- All wooden pieces are laser-cut and numbered. Carefully detach parts from their sheets.
- Use the provided diagrams to identify each piece.

3. Step-by-Step Assembly:

- Follow the numbered steps in the individual manuals. Do not skip steps or attempt to assemble out of order.
- Ensure all connections are secure. Some parts may require gentle force to fit.
- For the LGC01 Marble Spaceport, pay close attention to the motor and gear assembly.
- When combining LGC01 and LGA01 using the LG01 Link Pack, refer to the specific linking instructions.

4. Electrical Connections (LGC01):

- Connect the motor and LED lights as instructed. Ensure correct polarity for batteries (not included).
- The illuminated base features touch controls for lighting.



Image: The LGC01 Marble Spaceport, a key component of the set, showcasing its complex mechanical design.



Image: The LGA01 Marble Night City, another module in the combination set, featuring its distinct marble run elements.

5. OPERATING INSTRUCTIONS

Once fully assembled, your ROBOTIME Motorized Marble Run is ready for operation.

1. Power On:

- Ensure batteries are correctly installed in the LGC01 Marble Spaceport's power unit.
- Locate the touch sensor on the illuminated base.
- Tap the sensor once for "Breathing Light" mode.
- Tap the sensor twice for "Steady Light" mode.
- A long touch will power off the unit.

2. Marble Placement:

- Place the provided marbles at the designated starting point of the marble run.
- The motorized lift (conveyor belt and drive shaft) will transport the marbles to the top, initiating the cycle.

3. Observation:

- Observe the marbles as they navigate the various tracks, spirals, and mechanisms.
- The system is designed for continuous cycling for approximately 10 minutes in certain light modes before requiring a reset or power cycle.

Infinite Cycle

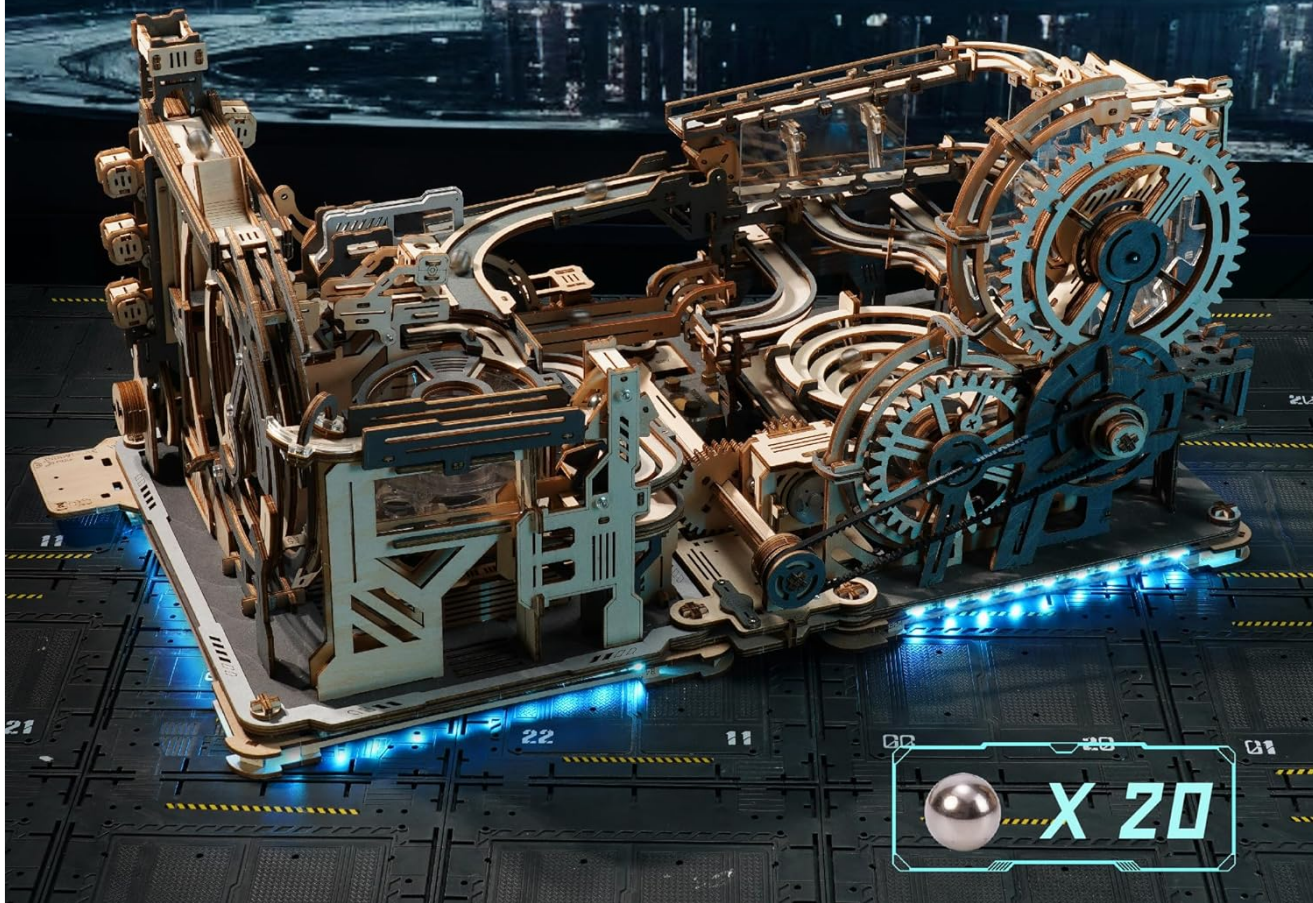


Image: The complete marble run in action, demonstrating the continuous cycle of marbles.

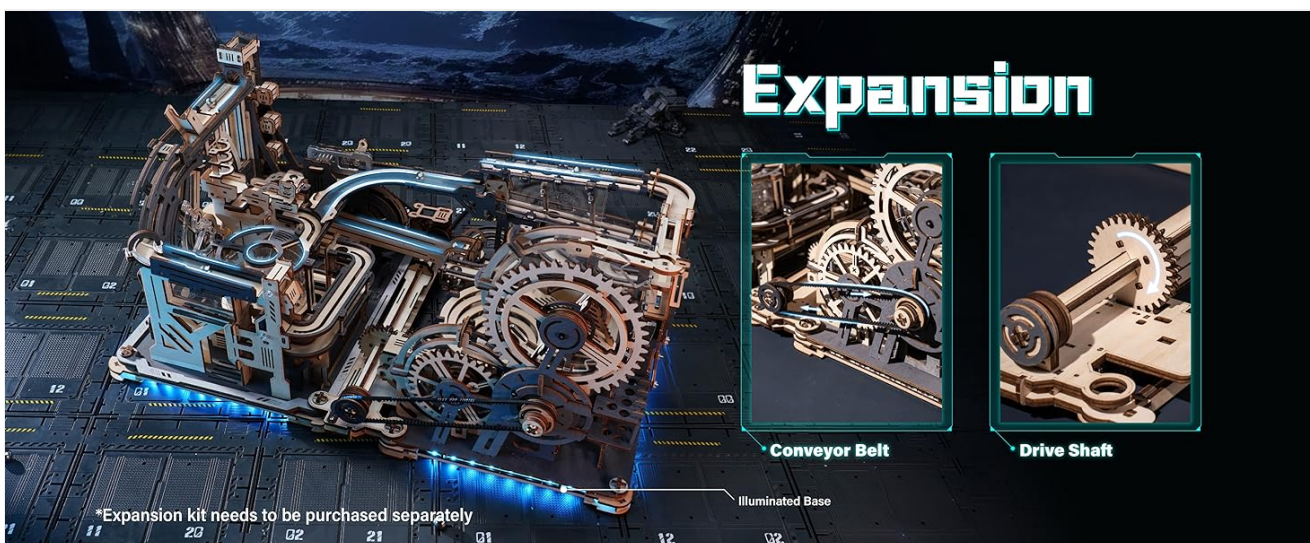


Image: Detailed view of the conveyor belt and drive shaft, essential components for lifting the marbles.

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Video: An official demonstration of the ROBOTIME 3 In 1 Marble Run Set in operation, showcasing its various mechanisms and marble flow.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to gently wipe dust from the wooden surfaces. Avoid using water or cleaning solutions.
- **Lubrication:** If any moving parts (gears, axles) become stiff, a small amount of dry lubricant (e.g., graphite powder) can be applied. Avoid oil-based lubricants which may damage the wood.
- **Storage:** Store the assembled model in a dry environment away from direct sunlight and extreme temperatures to prevent warping or damage to the wood.
- **Battery Replacement:** Replace batteries in the LGC01 unit when the motor performance degrades or lights dim.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Marbles get stuck or do not flow smoothly.	<ul style="list-style-type: none">◦ Parts not aligned correctly.◦ Friction in tracks or mechanisms.◦ Debris in the tracks.	<ul style="list-style-type: none">◦ Carefully inspect all connections and ensure parts are flush.◦ Apply a small amount of dry lubricant to moving parts.◦ Clean tracks with a soft brush or cloth.
Motor is weak or not running.	<ul style="list-style-type: none">◦ Low or dead batteries.◦ Motor or gear assembly obstruction.◦ Loose electrical connection.	<ul style="list-style-type: none">◦ Replace batteries.◦ Check for any foreign objects or misaligned gears.◦ Verify all wires are securely connected to the motor and battery box.
Lights are not working.	<ul style="list-style-type: none">◦ Incorrect battery installation.◦ Loose LED connection.◦ Faulty LED.	<ul style="list-style-type: none">◦ Check battery polarity and ensure they are fresh.◦ Re-seat LED connections.◦ Contact support if LEDs are confirmed faulty.

VIVID DETAILS

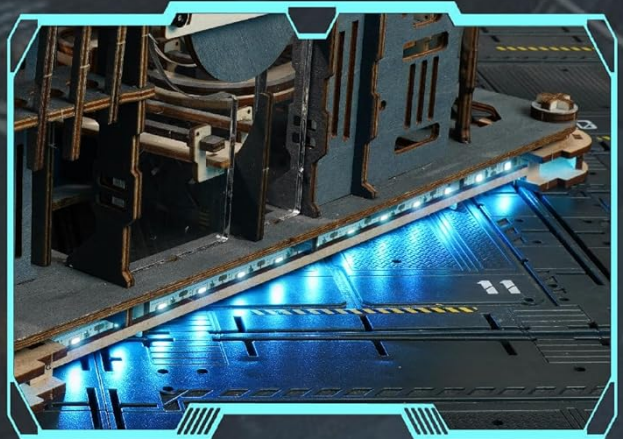
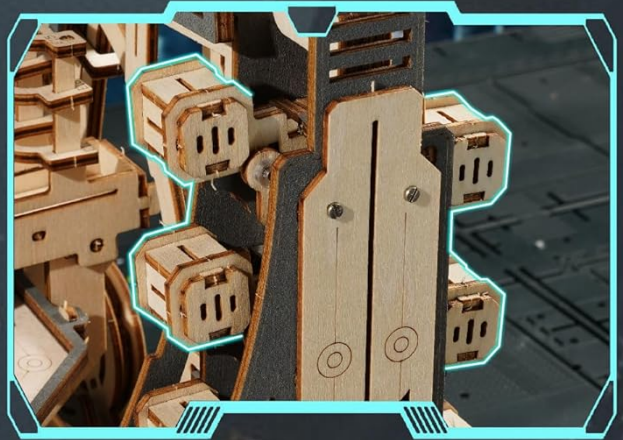
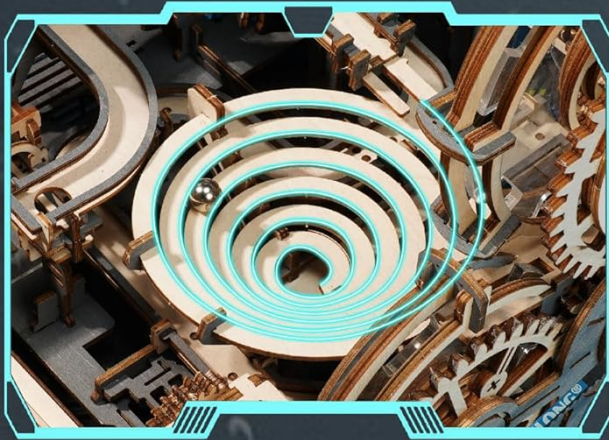


Image: Detailed view of the internal mechanisms, useful for troubleshooting alignment and movement issues.

8. SPECIFICATIONS

- **Model:** RBT-LGX02 (Combination Set)
- **Included Models:** LGC01 Marble Spaceport, LGA01 Marble Night City, LG01 Link Pack
- **Brand:** ROBOTIME
- **Material:** Basswood, Metal
- **Approximate Assembly Time:** 10+ hours
- **Recommended Age:** 14+ years (Adult)
- **Number of Pieces (LGC01):** 472 wood pieces (total pieces for combination set will be higher)
- **Features:** Motorized marble lift, illuminated base with touch control, intricate gear mechanisms.

9. WARRANTY AND SUPPORT

ROBOTIME provides worry-free assembly support for this 3D puzzle. If you encounter any problems during assembly or operation, or if you have questions regarding missing or damaged parts, please do not hesitate to

contact ROBOTIME customer support.

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

Manufacturer Warranty: Other (as per product specifications). Please retain your proof of purchase for any warranty claims.