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ROBOTIME RBT-LG01

ROBOTIME LG01 Marble Run Link Pack Instruction Manual

Model: RBT-LG01

1. Introduction

This manual provides instructions for assembling and operating the ROBOTIME LG01 Marble Run Link Pack. This kit is designed to connect two existing ROBOTIME marble run models: the Marble Night City LGA01 and the Marble Spaceport LGC01, creating an expanded and integrated marble maze system.

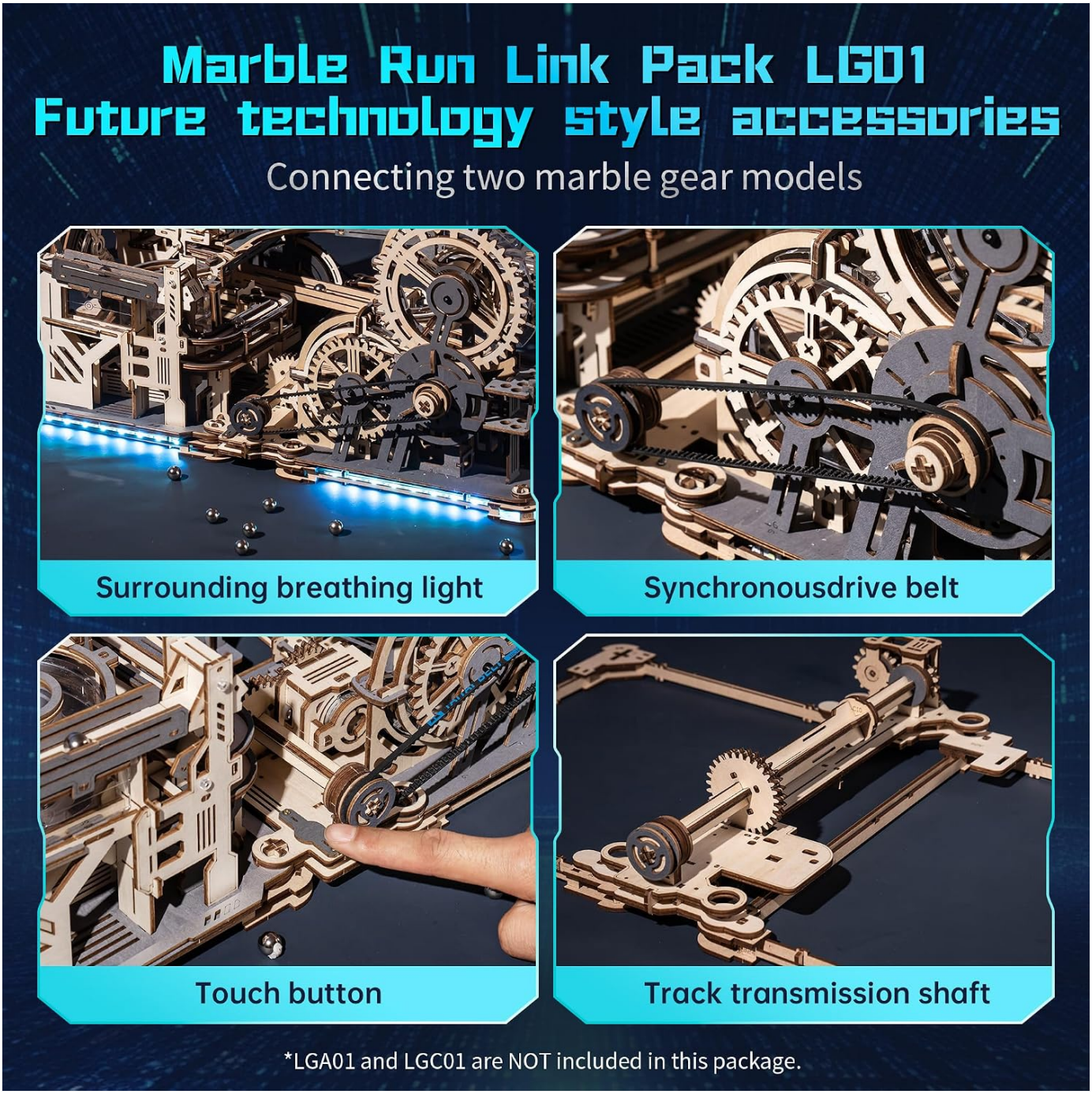

Image 1.1: The LG01 Link Pack connecting the Marble Spaceport LGC01 and Marble Night City LGA01 models.

The LG01 Link Pack includes essential components to facilitate this connection, such as a transmission shaft, connecting tracks, a base connector, a blue breathing light, and a synchronous drive belt. The estimated assembly time for this connector kit is approximately 3 hours.

Image 1.2: Overview of the LG01 Link Pedestal and the two marble run models it connects, along with assembly details.

2. Setup and Assembly

Before beginning assembly, ensure all components are present and undamaged. Refer to the included instruction books for detailed, step-by-step guidance. The assembly process involves interlocking wooden pieces to form the connector structure and integrating the electronic components.

2.1 Package Contents

- Transmission shaft
- Connecting track sections
- Base connector pieces
- Blue breathing light module
- Synchronous drive belt
- Instruction books

- Assorted wooden pieces

2.2 Assembly Process

1. Carefully detach all wooden pieces from their sheets. Use caution to avoid breakage.
2. Follow the numerical and pictorial instructions provided in the manual to connect the pieces. Pay close attention to the orientation of each part.
3. Assemble the base connector first, ensuring it provides a stable foundation for the link pack.
4. Integrate the transmission shaft and connecting track sections as indicated, ensuring smooth movement for the marbles.
5. Install the blue breathing light module and synchronous drive belt according to the diagrams.
6. Once the LG01 Link Pack is assembled, position it between your Marble Night City LGA01 and Marble Spaceport LGC01 models.
7. Connect the LG01 Link Pack to both LGA01 and LGC01 models using the designated connection points and tracks to form a continuous marble run.

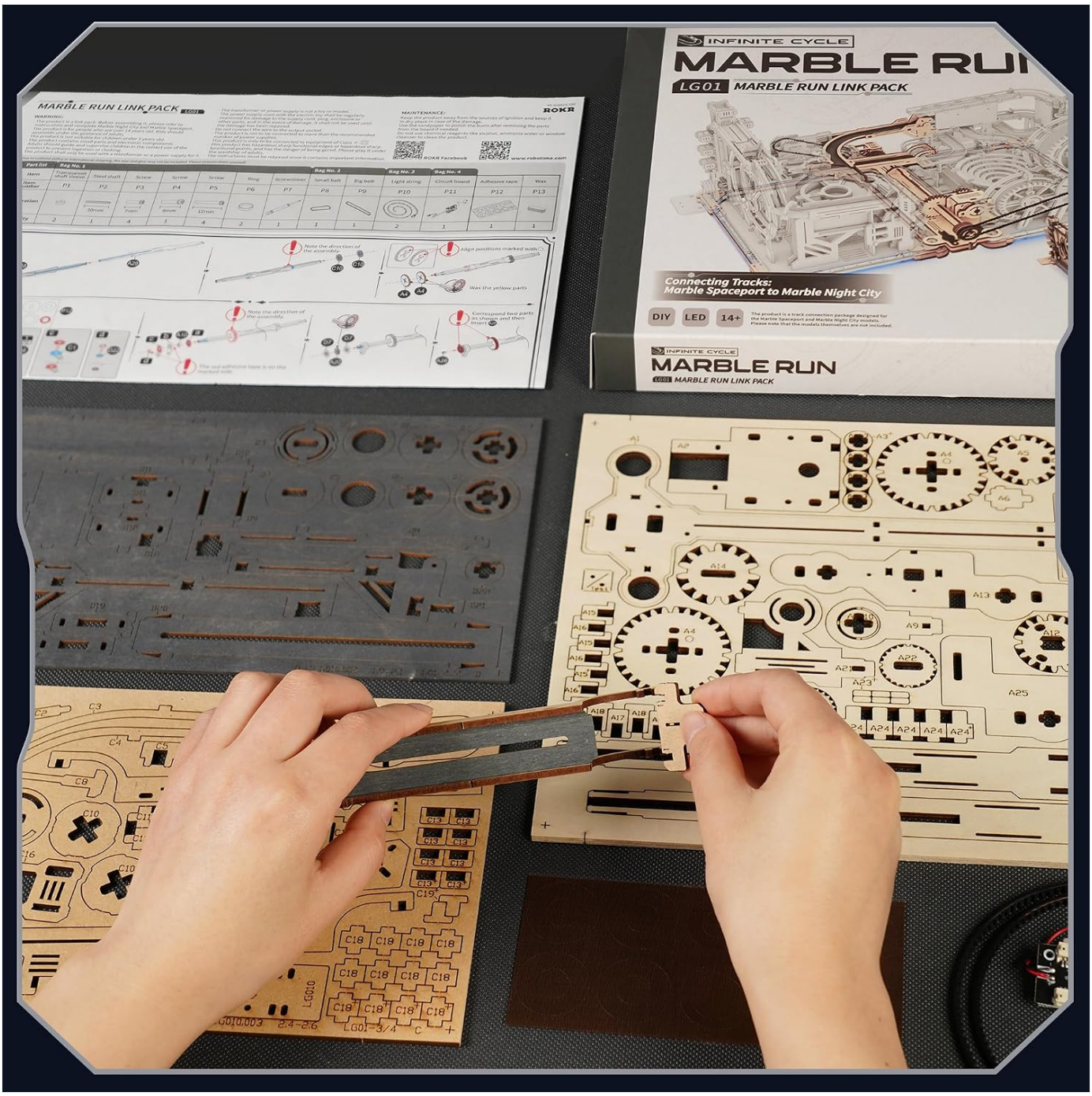

Image 2.1: Laying out the wooden pieces and instruction manual before assembly.

Image 2.2: Demonstrating the careful assembly of a wooden component.

Image 2.3: Visual representation of how the LG01 Link Pack connects the two main marble run models.

3. Operating Instructions

The LG01 Link Pack features an electric drive system and a touch switch for controlling power and lighting effects. The unit is powered via USB-C, utilizing the motor from the LGC01 model.

3.1 Touch Switch Control

- **Tap once:** The models will power on, and the blue breathing light will illuminate with a flowing, gradual effect.
- **Tap again:** The blue light will switch to a constant illumination mode.
- **Long press:** The models will power off, and the light will extinguish.

3.2 Functionality

- The orbital transmission shaft drives the gears of both connected models, ensuring synchronized movement.
- The gear chain replaces manual operation, transmitting rotational force to the internal structure through the drive shaft.
- Additional track connections within the link pack allow marbles to cycle infinitely between the connected models.

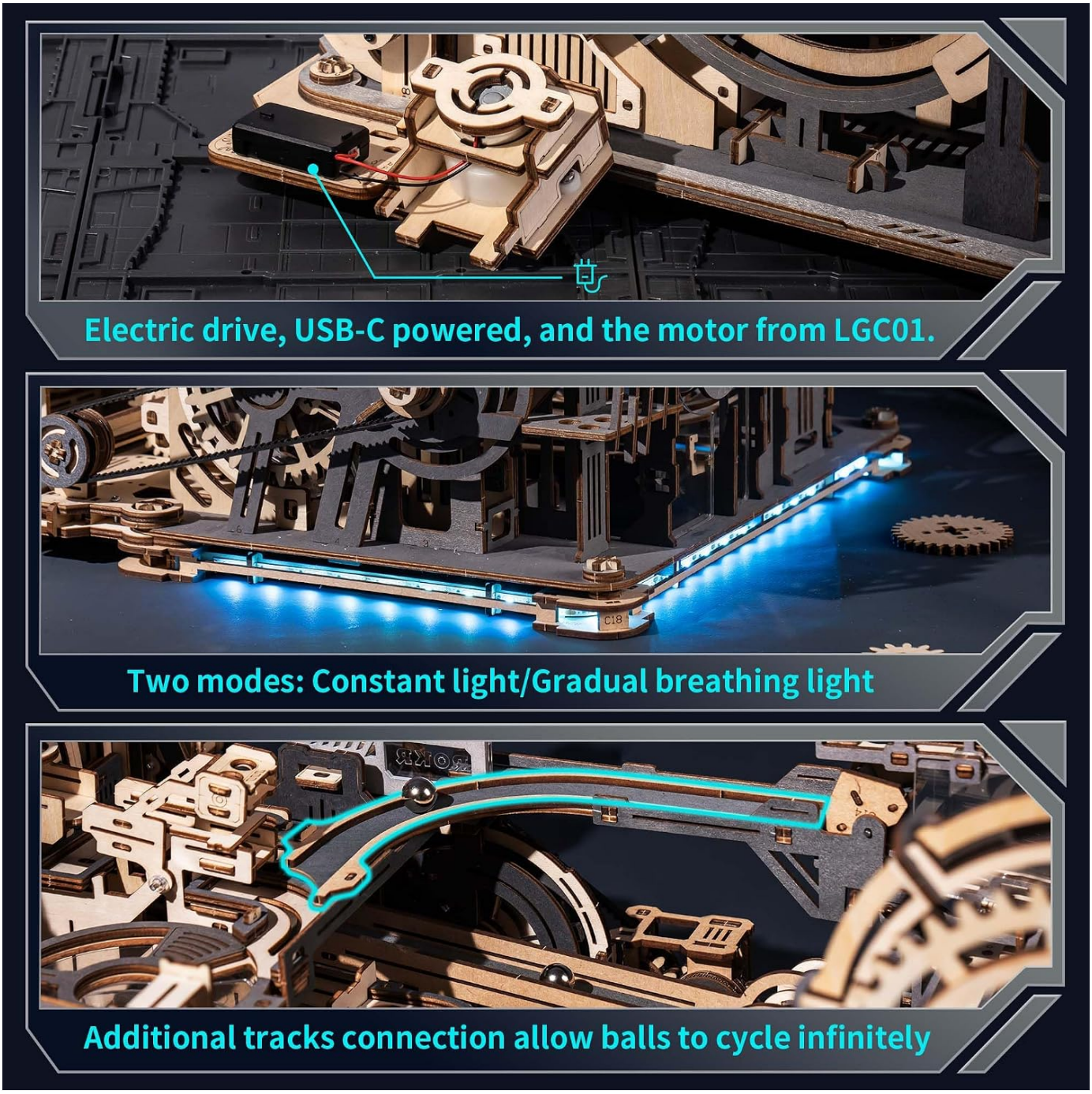

Image 3.1: Details of the electric drive, power input, light modes, and track extensions.

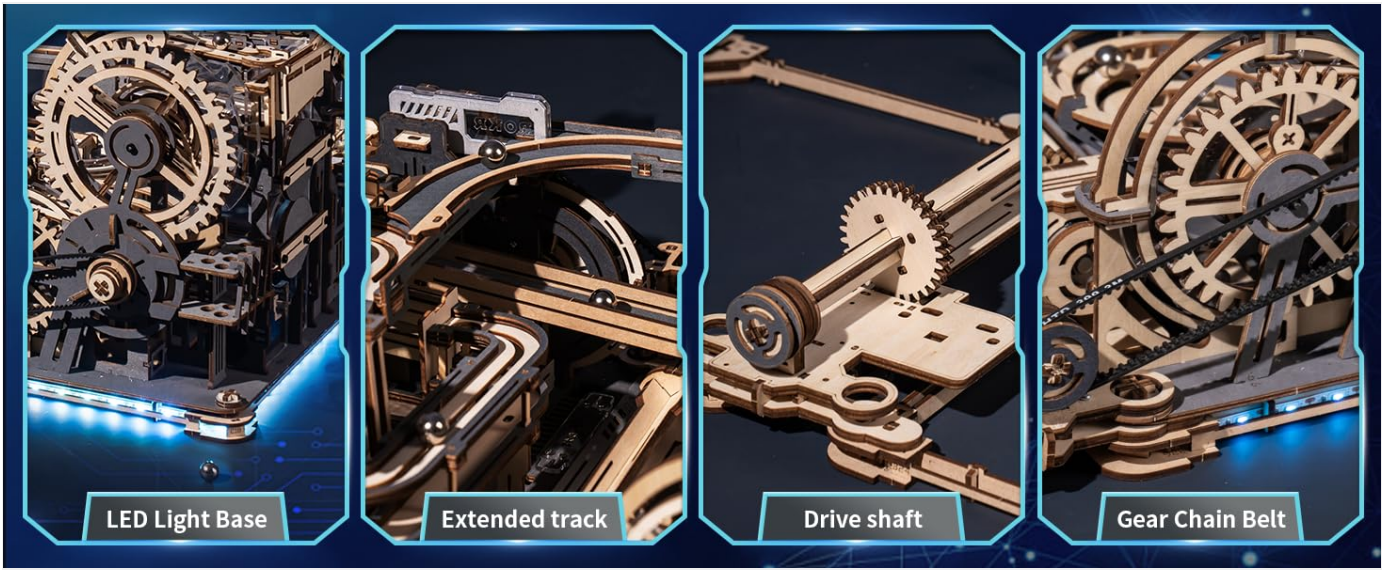

Image 3.2: Key components of the LG01 Link Pack, including the LED light base and drive mechanisms.

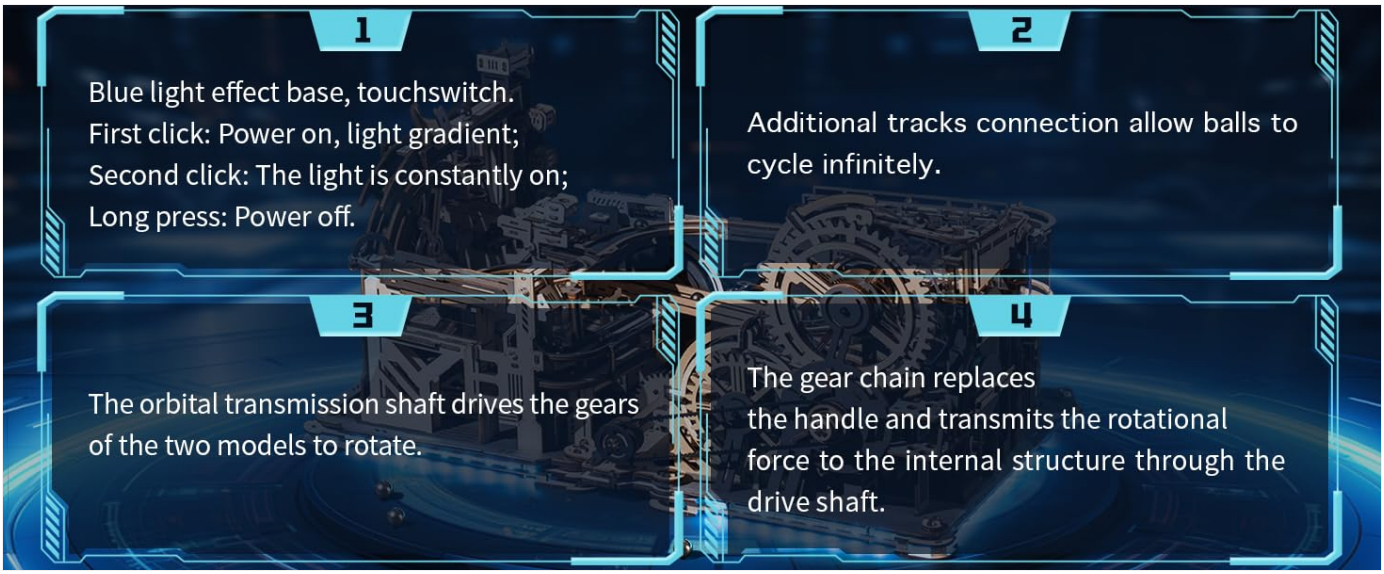

Image 3.3: Explanation of the touch switch operation and mechanical functions.

4. Maintenance

To ensure the longevity and smooth operation of your ROBOTIME LG01 Marble Run Link Pack, follow these maintenance guidelines:

- **Cleaning:** Dust the wooden components regularly with a soft, dry cloth. Avoid using abrasive cleaners or excessive moisture, which can damage the wood.
- **Storage:** Store the assembled model in a dry environment, away from direct sunlight and extreme temperature fluctuations, to prevent warping or damage to the wood.
- **Component Check:** Periodically inspect all connections and moving parts to ensure they are secure and free from obstruction.

5. Troubleshooting

If you encounter issues with your LG01 Marble Run Link Pack, consider the following troubleshooting steps:

- **Parts Not Fitting:** Double-check the instruction manual to ensure you are using the correct pieces and orienting them as shown. Wooden pieces may require gentle pressure to fit snugly. Do not force pieces, as this can cause breakage.
- **Mechanism Not Moving Smoothly:** Verify that all gears, shafts, and belts are correctly installed and aligned. Ensure no foreign objects or excess glue are obstructing movement. Check that the power source (USB-C) is properly connected and providing sufficient power.
- **Light Not Functioning:** Confirm the blue breathing light module is correctly connected to the power source and that the touch switch is being operated as described in Section 3.1.
- **Marbles Not Cycling:** Inspect the tracks for any misalignments or obstructions that might prevent marbles from moving freely. Ensure the connection points to the LGA01 and LGC01 models are seamless.

If problems persist after attempting these steps, please refer to the Support section for further assistance.

6. Specifications

Product Dimensions	51 x 30 x 0.1 cm (unassembled sheet); 555 g
Model Number	RBT-LG01
Material	Basswood
Recommended Age	14 - 80 years
Estimated Assembly Time	Approximately 3 hours
Educational Objective	Concentration, Hand-Eye Coordination, Patience
Included Components	Instruction Books, Wood Pieces, Transmission shaft, Connecting track, Base connector, Blue breathing light, Synchronous drive belt

7. Warranty

Warranty information for the ROBOTIME LG01 Marble Run Link Pack is typically provided by the manufacturer or the retailer at the time of purchase. Please retain your proof of purchase for any warranty claims. For specific details regarding warranty coverage, duration, and terms, please consult the documentation included with your product or contact ROBOTIME customer support directly.

8. Support

ROBOTIME is committed to providing comprehensive assembly support to ensure a seamless experience with your 3D puzzle. Should you encounter any challenges or require assistance during the assembly process or operation of your LG01 Marble Run Link Pack, please do not hesitate to reach out to the manufacturer.

For support, please visit the official ROBOTIME website or contact their customer service department. Contact information can usually be found on the product packaging or within the included instruction manual.

Ask a question about this manual

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