

ROBOTIME EA02

ROBOTIME Swing Ride EA02 3D Puzzle Music Box Instruction Manual

Model: EA02 | Brand: ROBOTIME

1. INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your ROBOTIME Swing Ride EA02 3D Wooden Puzzle Music Box. This kit combines the challenge of a 3D puzzle with the charm of a music box, featuring LED lights and mechanical movement. Please read all instructions carefully before beginning assembly.



Figure 1: The fully assembled ROBOTIME Swing Ride EA02.

2. SAFETY INFORMATION

- **Small Parts Warning:** This kit contains small parts which may pose a choking hazard for children under 3 years old. Keep all components out of reach of young children.
- **Sharp Edges:** Some laser-cut wooden pieces may have slightly sharp edges. Handle with care during assembly.
- **Battery Safety:** This product requires 3 AAA batteries (not included). Ensure correct polarity when inserting batteries. Do not mix old and new batteries, or different types of batteries. Remove batteries if the product is not used for an extended period.
- **Age Recommendation:** This model kit is recommended for individuals aged 14 years and older due to its complexity and small components.

3. PACKAGE CONTENTS

Before starting assembly, verify that all components listed below are present in your package. Refer to the included instruction booklet for a detailed parts list and diagrams.

- Pre-cut wooden sheets (289 pieces)
- Music box mechanism
- LED light components
- Illustrated instruction manual
- Small accessories (e.g., wires, screws, lubricant)

Note: 3 AAA batteries are required for operation and are **not included** in the package due to shipping regulations. Please prepare these separately.

WHAT'S IN THE BOX?



Figure 2: All components included in the ROBOTIME Swing Ride EA02 kit.

4. ASSEMBLY INSTRUCTIONS

The ROBOTIME Swing Ride EA02 is designed for self-assembly. Follow the detailed, step-by-step illustrated instructions provided in your kit. Each wooden piece is laser-cut and numbered for easy identification.

1. **Preparation:** Clear a clean, well-lit workspace. Organize the wooden sheets and identify the numbered pieces.
2. **Detaching Pieces:** Carefully detach each piece from its wooden sheet. Use a craft knife or sandpaper if necessary to smooth any rough edges.
3. **Follow Instructions:** Assemble the model strictly according to the sequence shown in the instruction manual. Pay close attention to the diagrams and ensure all connections are secure.
4. **Mechanical Components:** When assembling gears and moving parts, ensure they fit smoothly. Apply the provided lubricant sparingly to designated areas as indicated in the manual to ensure optimal movement.
5. **Electrical Components:** Install the LED lights and music box mechanism as directed. Ensure all wires are connected correctly.

Patience and attention to detail are key for a successful build. The estimated assembly time is approximately 6 hours.



Figure 3: Illustrates the DIY assembly process and mechanical gear transmission.

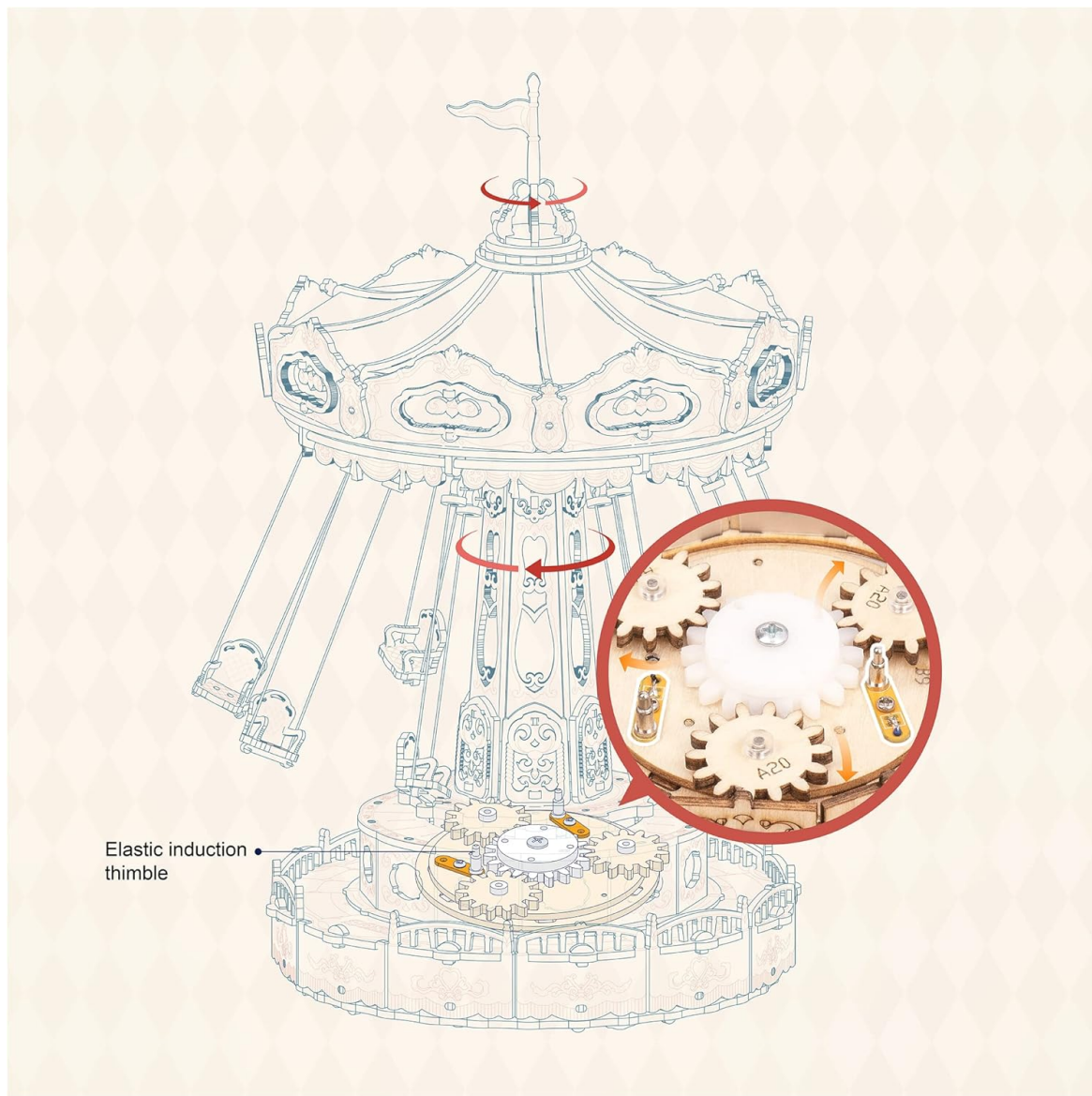


Figure 4: Detailed view of the internal gear mechanism and elastic induction thimble.

5. OPERATING INSTRUCTIONS

Once fully assembled, your Swing Ride EA02 model can be operated as follows:

1. **Battery Installation:** Open the battery compartment (usually located at the base) and insert 3 AAA batteries, ensuring correct polarity.
2. **Power On/Off:** Locate the touch switch, typically integrated into the base of the model. A gentle touch will activate the music, lights, and rotation. Touch again to turn off.
3. **Features:** When activated, the model will play the melody "Merry Go Round." The hollowing chairs will rotate, exhibiting a counter-rotating and centrifugal motion, while the LED lights illuminate the structure, creating a dynamic amusement park atmosphere.



Hollowing Chair



Acoustoptic Power Supply



European Railing



Direct Current Machine

Figure 5: Key operational components including hollowing chairs and power supply.

Official Product Video

Your browser does not support the video tag.

Video 1: This video demonstrates the ROBOTIME 3D Puzzles DIY Music Box Kit Swing Ride in operation, showcasing its rotating chairs, lights, and music.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to gently wipe dust from the model. Avoid using wet cloths or harsh cleaning agents, as these can damage the wood or electronic components.
- **Storage:** Store the assembled model in a dry, cool place away from direct sunlight and excessive humidity to prevent warping or damage to the wooden pieces.
- **Battery Replacement:** Replace batteries when the lights dim or the music/motion becomes weak. Always replace all batteries at once.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Lights or music not working	Dead or incorrectly installed batteries; loose wire connection.	Check battery polarity and replace if necessary. Inspect wire connections for tightness.
Rotation is sluggish or stops	Insufficient lubrication; obstruction in gears; low battery power.	Apply lubricant to gears as per assembly instructions. Check for any foreign objects. Replace batteries.
Pieces do not fit together	Incorrect piece orientation; burrs on edges.	Refer to the instruction manual diagrams. Gently sand edges if needed. Do not force pieces.

If you encounter issues not listed here or if solutions do not resolve the problem, please contact customer support.

8. SPECIFICATIONS

Brand: ROBOTIME

Model: EA02 (Swing Ride)

Material: Wood, Plastic

Number of Pieces: 289

Assembled Dimensions (L x W x H): Approximately 5.9 x 5.9 x 10.6 inches (15 x 15 x 27 cm)

Item Weight: 0.74 Kilograms

Skill Level: Intermediate

Educational Objective: Concentration Skill, Patience Skill, Problem Solving Skill

Power Source: 3 x AAA Batteries (not included)



Self Assembly



289 PCS

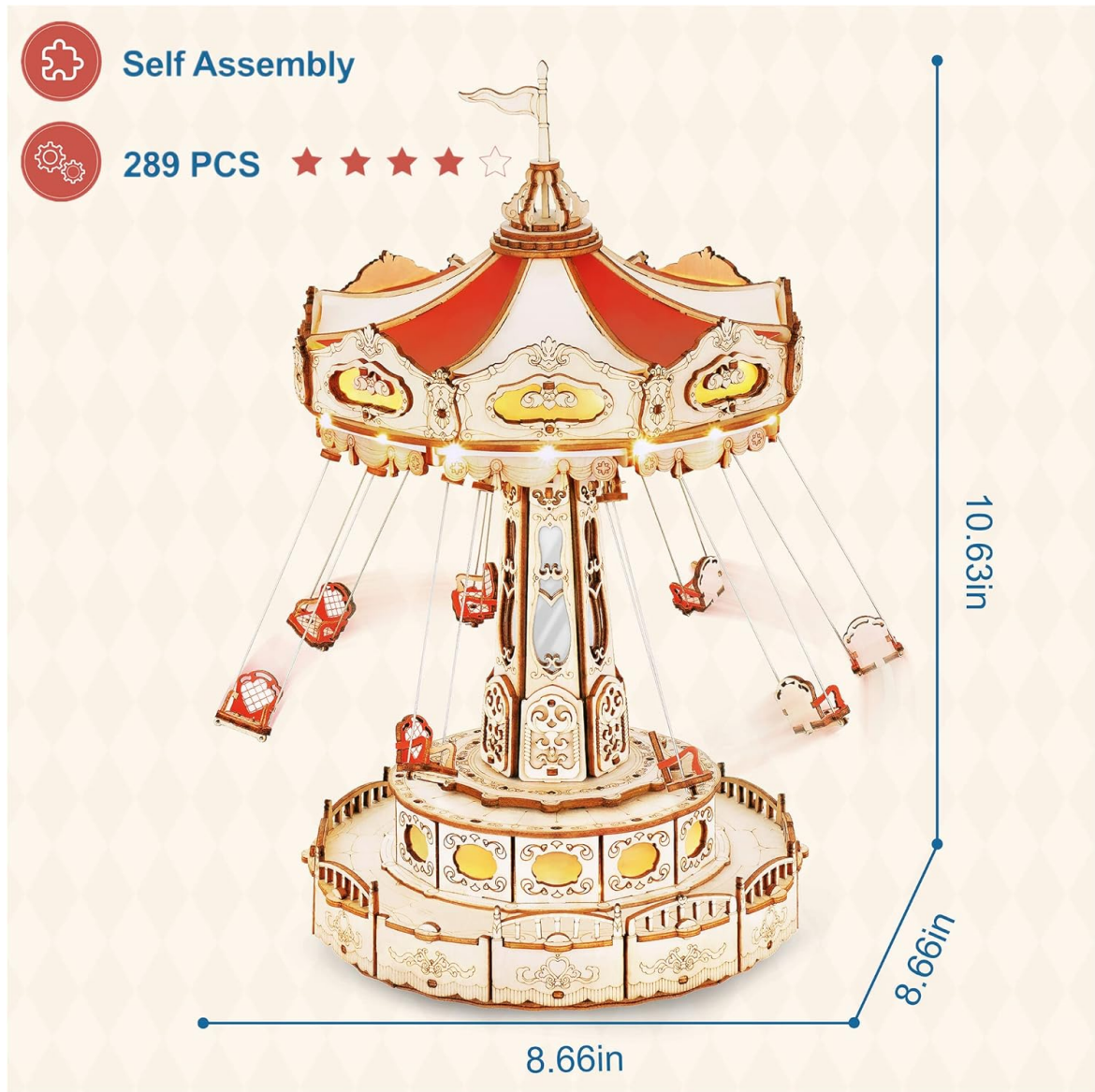


Figure 6: Dimensions and piece count of the ROBOTIME Swing Ride EA02.

9. WARRANTY AND SUPPORT

ROBOTIME products are manufactured with quality and precision. If you encounter any issues with your Swing Ride EA02 kit, such as missing or broken parts, or require assistance with assembly or operation, please contact ROBOTIME customer service. Refer to the contact information provided in your product packaging or visit the official ROBOTIME website for support.