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ROBOTIME EAB01

ROBOTIME 3D Wooden Puzzle Dream Gift Factory (EAB01) Instruction Manual

Model: EAB01

1. Introduction

The ROBOTIME Dream Gift Factory (Model EAB01) is a sophisticated 3D wooden puzzle kit designed for assembly. Upon completion, this mechanical model features a functional conveyor belt system, LED lighting, and intricate details that simulate a miniature gift production line. This manual provides essential information for the assembly, operation, and maintenance of your Dream Gift Factory.



Figure 1.1: Assembled ROBOTIME Dream Gift Factory model, showing overall dimensions of 24.4cm width, 16.3cm depth, and 25.3cm height.

2. Safety Information

Please read and understand the following safety precautions before beginning assembly:

- **Small Parts:** This kit contains small parts that may pose a choking hazard. Keep all components out of reach of young children.
- **Adult Supervision:** If children are involved in the assembly process, adult supervision is required.
- **Sharp Edges:** Some wooden pieces may have sharp edges after being removed from the sheets. Use caution and the provided sandpaper to smooth any rough areas.
- **Power Source:** Only use the specified USB power source for the LED lights and mechanical functions. Do not use power sources with higher voltage or current than recommended.

3. Setup and Assembly

The Dream Gift Factory kit includes 449 pieces and is designed for individuals aged 14 and above. The estimated assembly time is approximately 12 hours. Detailed, step-by-step instructions with illustrations are provided within the kit to guide you through the assembly process.

3.1 Unpacking the Kit

1. Carefully open the packaging and remove all wooden sheets, accessory bags, and the instruction manual.
2. Verify that all components listed in the manual are present.
3. Familiarize yourself with the tools provided (e.g., sandpaper, wax) and understand their purpose.

3.2 Assembly Process

Follow the included graphical instruction manual precisely. Key steps typically involve:

- **Part Removal:** Gently press out the wooden pieces from their sheets. Use a craft knife if necessary for stubborn connections.
- **Sanding:** Smooth any rough edges with the provided sandpaper for a clean fit and appearance.
- **Waxing:** Apply wax to gear teeth and moving parts to ensure smooth operation.
- **Interlocking:** Assemble parts by interlocking them according to the diagrams. No glue is required for most connections.
- **Wiring:** Carefully follow the instructions for connecting the LED lights and motor wiring.



Figure 3.1: The assembled model highlighting its interactive features: music playback, LED lighting, mechanical movement, and decorative elves.



Figure 3.2: Detailed views of the factory's operational areas: 1. Material processing tower, 2. Assembly line with moving parts, 3. Packaging area, 4. Ribbon-tying station.

4. Operating Instructions

Once fully assembled, your Dream Gift Factory is ready for operation. It requires a USB power source to activate its mechanical and lighting features.

4.1 Powering On

1. Connect the provided USB cable to the designated port on the model.
2. Plug the other end of the USB cable into a standard USB power adapter (not included) or a USB port on a computer.
3. Locate the power switch on the model.
4. Press the power switch once to activate the mechanical movement, LED lights, and music simultaneously.

4.2 Functions

- **Mechanical Movement:** The internal gear system drives a conveyor belt, simulating the movement of gifts through the factory.
- **LED Lighting:** Multiple LED lights illuminate various sections of the factory, creating a dynamic and enchanting display.
- **Music:** The model features an integrated music function that plays a melody when activated.

4.3 Powering Off

- Press the power switch a second time to turn off the music.
- Press and hold the power switch to turn off all functions (lights, movement, and music).
- For complete power disconnection, unplug the USB cable.



Figure 4.1: Illustration of the power button functionality: single press for music, light, and factory operation; second press for music off; long press for complete power off.



Figure 4.2: The factory illuminated by its six distinct lighting points, highlighting various sections of the model.

5. Maintenance

Proper care will ensure the longevity and optimal performance of your wooden puzzle model.

- **Cleaning:** Use a soft, dry cloth to gently wipe dust from the model. Avoid using abrasive cleaners or liquids, as they

can damage the wood and electronic components.

- **Storage:** Store the model in a dry environment, away from direct sunlight and extreme temperatures or humidity, which can cause the wood to warp or crack.
- **Moving Parts:** If mechanical parts become stiff, apply a small amount of wax (similar to the one provided during assembly) to the gears and contact points.
- **Handling:** Handle the model with care, especially delicate parts, to prevent breakage.

6. Troubleshooting

If you encounter issues during assembly or operation, consider the following:

- **Parts Not Fitting:** Ensure you are using the correct parts as indicated in the manual. Gently sand edges if a fit is too tight. Do not force parts, as this may cause breakage.
- **Broken Parts:** The kit often includes spare parts for fragile components. Refer to the parts list in your manual. If a critical part breaks and no spare is available, contact customer support.
- **Mechanical Parts Sticking:** Ensure all gears and moving components are properly waxed and aligned. Check for any obstructions.
- **Lights Not Working:** Verify that all LED wires are correctly connected according to the instructions. Ensure the USB power source is functioning and properly connected.
- **Music Not Playing:** Check all wiring related to the music module and ensure the power is connected.

7. Specifications

Feature	Detail
Brand	ROBOTIME
Model Number	EAB01 (RT-JP1EAB)
Puzzle Type	3D Wooden Puzzle
Number of Pieces	449
Assembled Dimensions (L x W x H)	24 cm x 16 cm x 25.3 cm (approx.)
Recommended Age	14 Years and Up
Estimated Assembly Time	12 Hours
Material Type	Wood
Features	LED Lights, Mechanical Movement, Music Function
Power Source	USB (cable included, adapter not included)



Figure 7.1: Visual representation of key product specifications and features.

8. Warranty and Support

For warranty information, missing parts, or technical support, please refer to the contact details provided in your product packaging or visit the official ROBOTIME website. Keep your proof of purchase for any warranty claims.
ROBOTIME Official Store: Visit ROBOTIME Store

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