EWA Eco-Wood-Art TRICERATOPS

Triceratops 3D Wooden Puzzle Instruction Manual

Model: TRICERATOPS | Brand: EWA Eco-Wood-Art

1. Introduction

The EWA Eco-Wood-Art Triceratops 3D Wooden Puzzle is a mechanical model building kit designed for enthusiasts aged 15 years and above. This intricate puzzle allows you to construct a detailed wooden replica of a Triceratops, featuring a wind-up rubber band mechanism that enables movement of its legs, head, and tail. The kit consists of 283 pre-cut wooden pieces, requiring no glue for assembly, providing a challenging yet rewarding experience.

Upon completion, the model serves as both an interactive toy and a unique display piece. This manual provides essential information for safe and successful assembly, operation, and care of your Triceratops model.

Figure 1: Fully assembled Triceratops 3D Wooden Puzzle, showcasing its detailed design and mechanical components.

2. Safety Information

WARNING: CHOKING HAZARD – Small parts. Not for children under 3 years. This product contains small components that may pose a choking hazard if swallowed. Adult supervision is recommended for users under 14 years of age due to the complexity and presence of small parts.

- Keep all parts out of reach of small children.
- Do not ingest any components.
- Handle wooden pieces carefully to avoid splinters.
- Ensure a clean, well-lit workspace during assembly.

3. Package Contents

Your EWA Eco-Wood-Art Triceratops 3D Wooden Puzzle kit includes the following items:

- 283 pre-cut wooden parts on plywood sheets.
- Assembly tools (specific tools may vary, refer to packaging).
- Precise assembly instructions in 8 languages (including English, German, Spanish, Italian, Russian, Czech, Chinese, and French).
- Rubber bands for the wind-up mechanism.

Figure 2: The puzzle kit box, showing the pre-cut wooden sheets and the instruction manual, ready for assembly.

4. Assembly Instructions (Setup)

Follow the detailed step-by-step instructions provided in your kit's manual. No glue is required for assembly; all parts are designed to interlock precisely.

1. **Preparation:** Carefully remove all pre-cut parts from the plywood sheets. Use the provided tools or a small hobby knife if necessary to ensure clean edges. Organize parts by number to facilitate assembly.
2. **Follow Manual:** Adhere strictly to the numerical sequence and diagrams in the included instruction booklet. Each step builds upon the previous one.
3. **Interlocking Parts:** Gently press parts together. If a connection feels too tight, do not force it. Refer to the Troubleshooting section for tips on fitting parts.
4. **Mechanical Components:** Pay close attention when assembling the internal gears, cams, and the rubber band mechanism. Ensure all moving parts are aligned correctly and move freely before proceeding to the next step.
5. **Final Assembly:** Once all sections are complete, connect them as per the final steps in the manual. Verify that the wind-up mechanism functions smoothly.

Figure 3: The assembled Triceratops model, indicating its complexity level and overall dimensions.

5. Operating Instructions

The Triceratops 3D Wooden Puzzle is equipped with a wind-up rubber band engine that allows it to move. To operate your model:

1. **Winding the Mechanism:** Locate the winding key or knob, typically on the side of the model. Gently turn it clockwise to wind the internal rubber band mechanism. Do not overwind, as this can damage the components.
2. **Activating Movement:** Once wound, place the Triceratops on a flat, smooth surface. Locate the stop-and-go flip switch (if present, refer to your manual's diagrams). Flip the switch to the 'Go' position to activate the movement.
3. **Observation:** The wind-up mechanism will cause the Triceratops' legs to move, simulating a walking motion. Its head and tail are also designed to move as part of the mechanism.
4. **Stopping Movement:** To stop the model, flip the stop-and-go switch to the 'Stop' position.

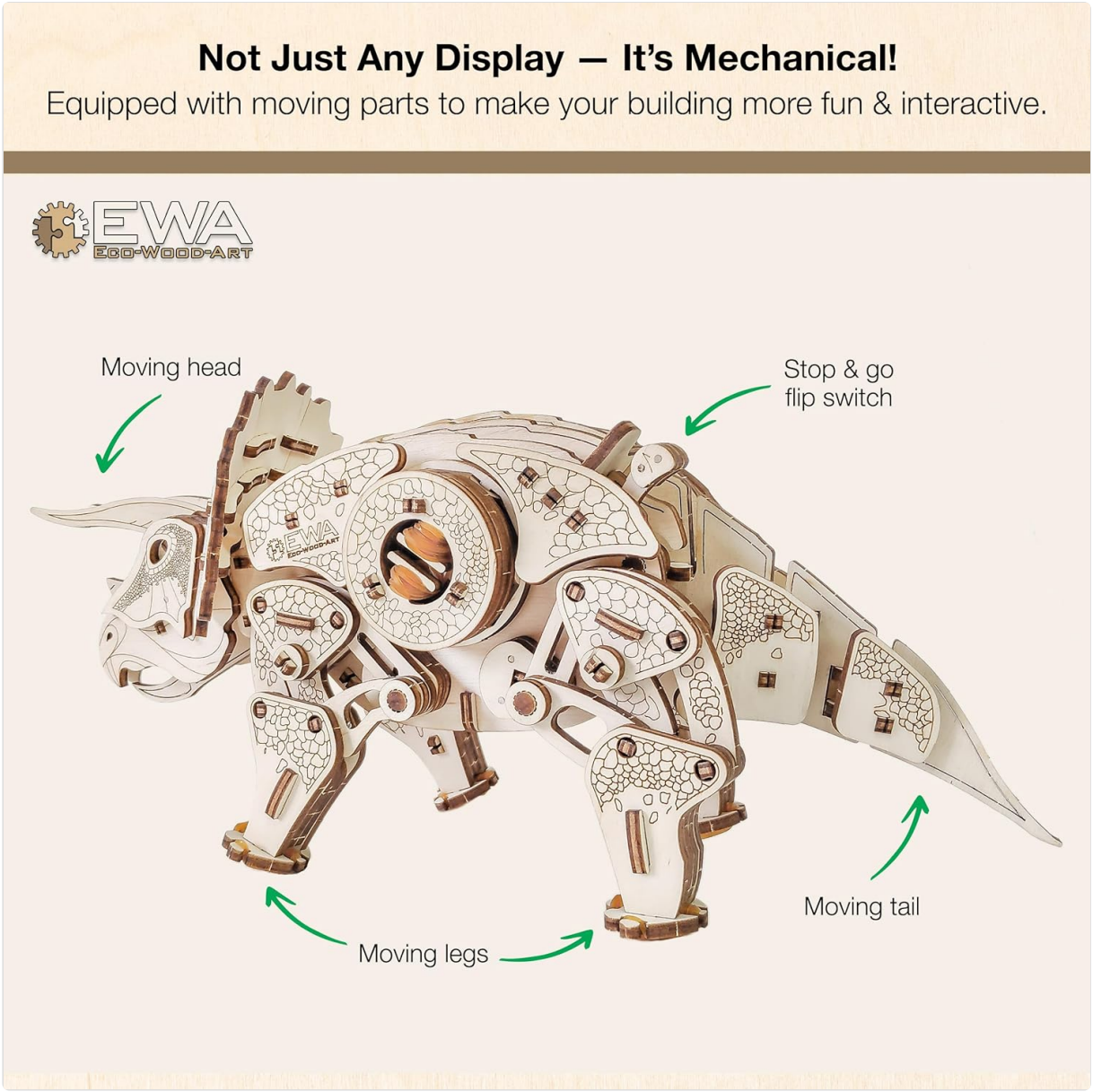

Figure 4: A diagram highlighting the mechanical features of the Triceratops, including its moving head, legs, tail, and the stop-and-go flip switch.

6. Maintenance

To ensure the longevity and optimal performance of your Triceratops 3D Wooden Puzzle, follow these maintenance guidelines:

- **Cleaning:** Dust the model regularly with a soft, dry cloth. Avoid using water or chemical cleaners, as these can damage the wood.
- **Lubrication:** For smoother operation of mechanical parts, a small amount of paraffin wax or a dry lubricant (e.g., graphite powder) can be applied to interlocking gears and moving joints. Avoid oil-based lubricants.
- **Storage:** Store the model in a dry environment, away from direct sunlight and extreme temperature fluctuations, which can cause the wood to warp or crack.
- **Painting:** If you choose to paint the model, it is recommended to use water-based paints. Thicker paints may obstruct the delicate mechanisms and moving parts. Ensure paint is fully dry before operating.

7. Troubleshooting

If you encounter issues during assembly or operation, consider the following common problems and solutions:

- **Parts are too tight to fit:** The pre-drilled holes are designed for a snug fit. If a part is too tight, gently sand the edges or the dowel/toothpick slightly with fine-grit sandpaper until it fits without excessive force. Avoid forcing parts, as this can cause breakage.
- **Mechanical parts are stiff or not moving:**
  - Ensure all gears and cams are correctly aligned as per the instructions.
  - Check for any wooden burrs or rough spots on moving surfaces. Gently sand these smooth.
  - Apply a small amount of paraffin wax or dry lubricant to the contact points of moving parts, especially cam lobes and gear teeth.
  - Verify that no parts are pressing against each other unnecessarily, causing friction.
- **Rubber band mechanism is not holding tension or breaking:**
  - Ensure the rubber bands are correctly installed and not twisted.
  - Avoid overwinding the mechanism. Wind only until resistance is felt.
  - If a rubber band breaks, replace it with a similar size and strength band.
  - Check the anchor points for the rubber bands for any sharp edges that might be causing wear.
- **Model does not walk straight:** Ensure all legs are assembled symmetrically and the walking mechanism is balanced. Check for any obstructions or misalignments in the leg joints.

8. Specifications

Feature	Detail
Product Name	Triceratops 3D Wooden Puzzle
Brand	EWA Eco-Wood-Art
Model Number	TRICERATOPS
Number of Pieces	283
Assembled Dimensions	Approximately 12.6 x 6.3 x 0.04 inches (320 x 160 x 105 mm)
Item Weight	10.6 ounces
Material	High-quality Birch Plywood
Recommended Age	15 years and up
Assembly Required	Yes (No glue required)
Mechanism	Wind-up rubber band engine with moving legs, head, and tail

9. Warranty and Support

EWA Eco-Wood-Art is committed to providing high-quality products and a rewarding experience. If you are not 100% satisfied with your Triceratops 3D Wooden Puzzle, please contact the manufacturer or your

retailer for assistance. While specific warranty details are not provided in this manual, the product is backed by a commitment to customer satisfaction.

For missing or broken parts, or for further technical support, please refer to the contact information provided on the product packaging or the official EWA Eco-Wood-Art website.