Wood Trick Thunder Chopper

Wood Trick Thunder Chopper Electric Helicopter 3D Wooden Puzzle Instruction Manual

Model: Thunder Chopper

1. Introduction

Thank you for choosing the Wood Trick Thunder Chopper Electric Helicopter 3D Wooden Puzzle. This mechanical model kit provides an engaging and challenging building experience, resulting in a functional helicopter model with interactive features. This manual provides essential information for assembly, operation, maintenance, and troubleshooting to ensure a successful and enjoyable experience.



Figure 1.1: The fully assembled Wood Trick Thunder Chopper model.

2. Safety Information

Please read and understand all safety information before beginning assembly or operation of the model.

- This product is intended for adults. The manufacturer minimum age recommendation is 168 months (14 years).
- Keep small parts away from children under 3 years of age due to choking hazards.
- Exercise caution when handling wooden pieces, as some edges may be sharp.
- Do not apply excessive force during assembly to prevent breakage of delicate parts.
- Ensure batteries are inserted with correct polarity. Do not mix old and new batteries, or different types of batteries.
- Dispose of used batteries responsibly.

3. Package Contents

Verify that all components are present before starting assembly.

- Thunder Chopper 3D Wooden Puzzle Parts (485 pieces)
- Illustrated step-by-step instructions with hints in English

Note: 4 AA 1.5V batteries are required for the electric motor and are**not included** in the kit.


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Figure 3.1: Product packaging and assembled model.

4. Assembly Instructions

The Thunder Chopper model kit is designed for assembly without the need for glue. The process typically takes 6-8 hours. Follow the included illustrated, step-by-step assembly guide carefully for best results.

4.1 General Assembly Tips

- **Preparation:** Lay out all wooden sheets and identify the parts. It is recommended to use a sharp modeling knife to carefully release parts from the sheets.
- **Sanding:** Gently sand any small burrs or rough edges on the wooden pieces for a smoother fit and finish.
- **Lubrication:** For all mechanical moving parts, such as gears and axles, apply wax (not included) to ensure smooth operation. More wax generally leads to better performance.
- **Delicate Parts:** Some parts, like the fenestron fan blades, are delicate. Handle them with extreme care to avoid breakage.
- **Fitting:** Parts should fit snugly. If a part is too tight, do not force it. Instead, gently sand the connecting tabs or slots until it fits without excessive pressure.
- **Online Video Guide:** A detailed video guide of the assembly process is available online. Refer to the product packaging or Wood Trick's official website for the link.



Figure 4.1: The Thunder Chopper model on its display platform.



Figure 4.2: Detailed side view of the helicopter model.

5. Operating Instructions

Once fully assembled, the Thunder Chopper features an electric motor that brings the model to life.

5.1 Battery Installation

1. Locate the battery compartment, typically on the underside or within the display platform.
2. Open the compartment cover.
3. Insert 4 AA 1.5V batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

5.2 Activating the Model

- Locate the power switch, usually on the display platform or the helicopter's base.
- Flip the switch to the 'ON' position.
- Observe the main rotors and tail rotor spinning.

5.3 Interactive Features

- **Spinning Rotors:** The main and tail rotors will spin when the motor is activated.
- **Movable Blades:** The main rotor blades are designed to move.
- **Sliding Cockpit Doors:** The cockpit doors can be manually slid open and closed.
- **Missile Launchers:** The side-mounted missile launchers can fire mini rockets (if included and functional).



Figure 5.1: Detailed view of the missile launchers on the helicopter model.

MARINES CORPS

Figure 5.2: Close-up of the tail rotor mechanism.

6. Maintenance

To ensure the longevity and smooth operation of your Wood Trick Thunder Chopper model, follow these maintenance guidelines:

- **Cleaning:** Dust the model regularly with a soft, dry cloth. Avoid using water or chemical cleaners, as they can damage the wood.
- **Lubrication:** Reapply wax to moving mechanical parts periodically, especially if you notice any stiffness or increased friction.
- **Storage:** Store the model in a dry environment, away from direct sunlight and extreme temperature fluctuations, to prevent wood warping or cracking.
- **Battery Care:** Remove batteries if the model will not be used for an extended period to prevent leakage and damage.

7. Troubleshooting

If you encounter any issues with your Thunder Chopper model, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Parts do not fit together	Excess burrs on parts; insufficient sanding; incorrect part orientation.	Gently sand connecting tabs/slots. Ensure parts are oriented correctly as per instructions. Do not force parts.
Motor does not run or runs slowly	Batteries incorrectly installed; dead batteries; power switch off; mechanical obstruction; insufficient lubrication.	Check battery polarity and replace if dead. Ensure power switch is ON. Check for any parts blocking movement. Apply more wax to gears and axles.
Rotors do not spin smoothly	Insufficient lubrication; friction from adjacent parts; misaligned components.	Apply more wax to all rotating parts. Inspect for any parts rubbing against each other and adjust alignment.
A part broke during assembly	Excessive force applied; part was delicate.	Contact Wood Trick customer support for replacement parts if available. Attempt to repair with wood glue if the break is clean and minor.

8. Specifications

- **Model Name:** Thunder Chopper
- **Brand:** Wood Trick
- **Number of Pieces:** 485
- **Material:** Natural Wood
- **Assembly Time:** Approximately 6-8 hours
- **Model Size (L x W x H):** 15.7 x 10 x 9.8 inches (400 x 255 x 250 mm)
- **Power Source:** Electric motor (requires 4 AA 1.5V batteries, not included)

- **Recommended Age:** Adult (14+ years)
- **Educational Objective:** Problem Solving Skill, Hand-Eye Coordination, Mechanical Concepts

9. Warranty and Support

For any questions, missing parts, or support needs, please contact Wood Trick customer service. Refer to the product packaging or the official Wood Trick website for contact information.

Each item is verified by Transparency with a unique code before dispatch, ensuring product authenticity.

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