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### Yutin YT1001

# Yutin STEM Kits for Kids: 6-in-1 Wood Building Projects Instruction Manual

Model: YT1001

## 1. INTRODUCTION

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This manual provides detailed instructions for assembling and operating your Yutin 6-in-1 STEM Kits. These kits offer an engaging way to explore science, technology, engineering, and mathematics through hands-on wood building projects. The set includes components to construct a Four-wheel Drive vehicle, Tank, Wind-powered Vehicle, Off-road Vehicle, Solar Helicopter, and Biplane.



Image 1.1: The Yutin 6-in-1 STEM Kits box alongside the six completed wooden models: a biplane, an off-road vehicle, a tank, a four-wheel drive vehicle, a wind-powered vehicle, and a solar helicopter.

## 2. SAFETY INFORMATION

- **Warning:** Not suitable for children under 3 years old due to small parts which may present a choking hazard.
- Adult supervision is recommended during assembly and play, especially for younger children.
- Ensure all components are securely fastened to prevent detachment during operation.
- Handle small parts with care to avoid loss.
- The kits are made from non-toxic plywood with smooth surfaces and rounded corners for safety.

# DIY 3D Puzzles



6 Pack  
of Puzzles



Safe and  
Non-toxic



Laser Cutting  
Process



High Quality  
Plywood



No Glue  
Needed



Image 2.1: Key features of the Yutin 3D Puzzles, highlighting their safety, non-toxic materials, precision laser cutting, high-quality plywood construction, and the fact that no glue is required for assembly.

## 3. WHAT'S INCLUDED

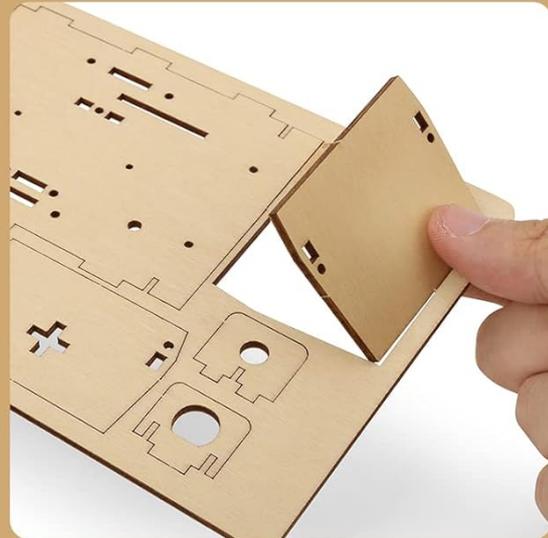
Your Yutin STEM Kit package contains the following items:

- 6 individual wooden building project kits (Four-wheel Drive, Tank, Wind-powered Vehicle, Off-road Vehicle, Solar Helicopter, Biplane).
- Detailed instruction manuals for each model.
- A screwdriver for assembly.
- All necessary electronic components (motors, wires, solar panels where applicable).
- Wheels, propellers, and other accessory parts.

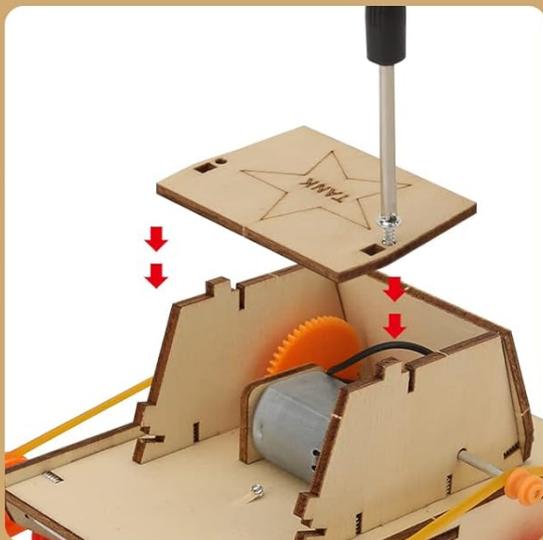
**Note: 2 AA batteries are required for each project and are not included in the package.**



1. Browse the manual



2. Take off the puzzle pieces



3. Install and fix with screws



4. Finished

Image 3.1: The complete contents of the Yutin STEM Kits, showing the gift box, individually packaged 3D wooden puzzle components for six models, detailed instruction booklets, and included screwdrivers.

## 4. ASSEMBLY INSTRUCTIONS

Follow these general steps for assembling each wooden model. Refer to the specific instruction manual included with each kit for detailed, model-specific guidance.

### General Assembly Steps:

1. **Browse the Manual:** Carefully review the instruction manual for the specific model you are building. Familiarize yourself with the parts and steps.
2. **Take Off the Puzzle Pieces:** Gently detach the wooden puzzle pieces from their sheets. Use caution to avoid breaking delicate parts.
3. **Install and Fix with Screws:** Assemble the wooden structure according to the manual. Connect electronic components (motors, wires) and secure parts using the provided screws and screwdriver.
4. **Finished:** Once all parts are assembled and secured, your model is complete and ready for operation.



Image 4.1: A visual guide demonstrating the four-step assembly process for one of the wooden models, from reviewing instructions to the final construction.

## Model-Specific Assembly Overview:

Each kit is designed to teach different principles:

- **Four-wheel Drive, Tank, Off-road Vehicle:** These models are primarily powered by motor drives, demonstrating basic mechanical and electrical principles.
- **Solar Helicopter:** This model utilizes solar energy converted into kinetic energy to rotate its wings, illustrating renewable energy concepts.
- **Biplane, Wind-powered Vehicle:** These models are driven by motors that propel them using wind power, showcasing aerodynamics and propulsion.



## Four-wheel Drive

Powered by motor drive



## Tank

Powered by motor drive

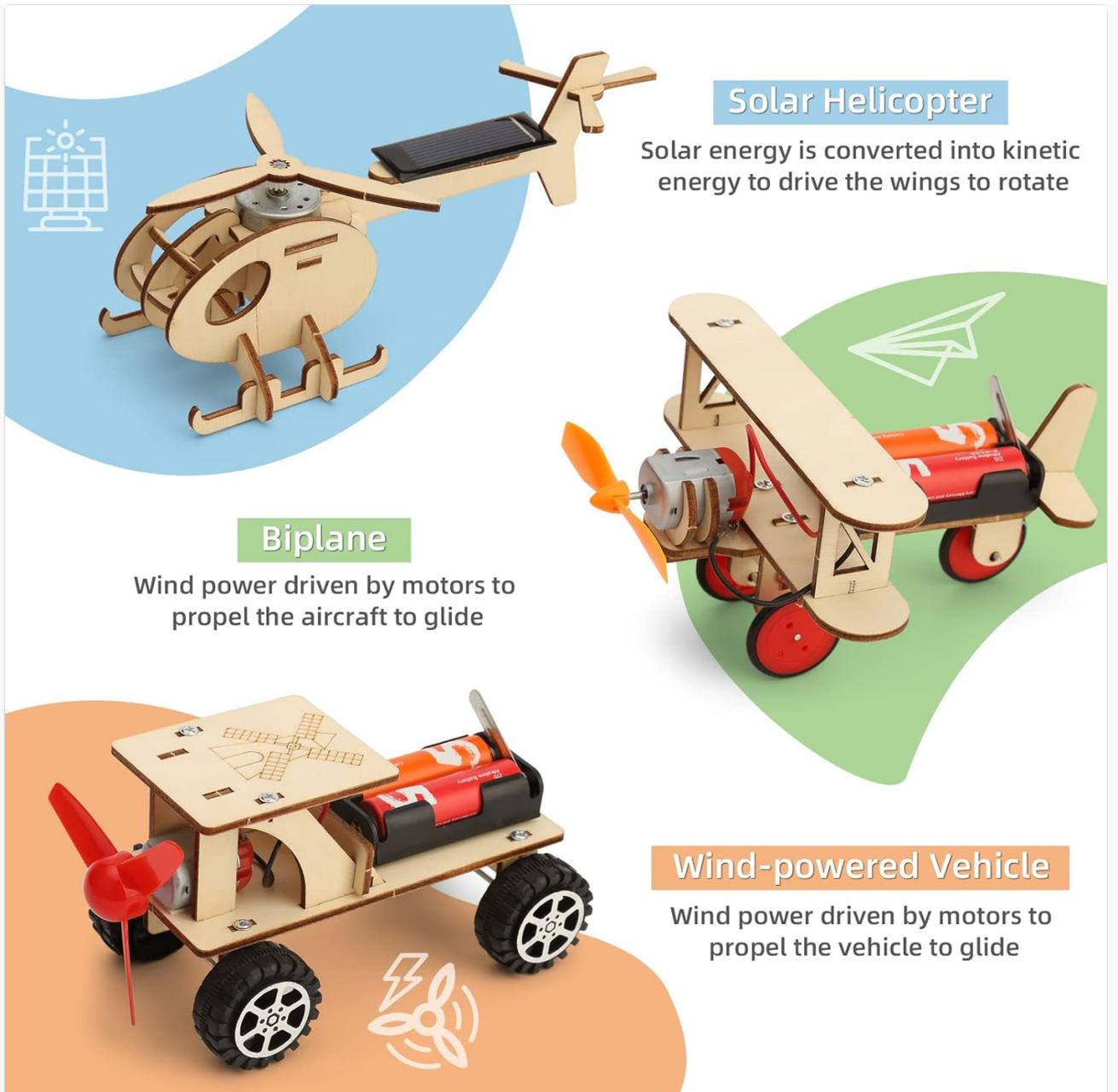


## Off-road Vehicle

Powered by motor drive



Image 4.2: Depiction of the Four-wheel Drive, Tank, and Off-road Vehicle models, highlighting their motor-driven operation.



### Solar Helicopter

Solar energy is converted into kinetic energy to drive the wings to rotate

### Biplane

Wind power driven by motors to propel the aircraft to glide

### Wind-powered Vehicle

Wind power driven by motors to propel the vehicle to glide

Image 4.3: Depiction of the Solar Helicopter, Biplane, and Wind-powered Vehicle models, showcasing their unique power sources and propulsion methods.

## 5. OPERATING INSTRUCTIONS

After successful assembly, follow these steps to operate your models:

1. **Insert Batteries:** For models requiring battery power (Four-wheel Drive, Tank, Wind-powered Vehicle, Off-road Vehicle, Biplane), insert 2 AA batteries into the designated battery compartment. Ensure correct polarity.
2. **Solar Helicopter:** Place the Solar Helicopter in direct sunlight. The solar panel will convert light into electrical energy to power the rotor.
3. **Activate:** Locate the power switch on your model (if applicable) and turn it to the 'ON' position.
4. **Observe:** Watch your model in action. For vehicles, ensure they are on a flat, clear surface.

## 6. MAINTENANCE

To ensure the longevity and proper functioning of your Yutin STEM Kits, consider the following maintenance tips:

- **Cleaning:** Wipe wooden parts with a dry, soft cloth. Avoid using water or harsh chemicals, which can damage the wood.
- **Storage:** Store models in a dry place away from direct sunlight and extreme temperatures to prevent warping or damage to electronic components.
- **Battery Care:** Remove batteries from models if they will not be used for an extended period to prevent leakage.
- **Component Check:** Periodically check screws and connections to ensure they remain tight. Re-tighten if necessary.

## 7. TROUBLESHOOTING

If you encounter issues with your Yutin STEM Kits, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Model does not move/operate.	<ul style="list-style-type: none"> <li>• Batteries are dead or incorrectly inserted.</li> <li>• Loose wire connection to motor or battery pack.</li> <li>• Motor is jammed or obstructed.</li> <li>• Solar panel not receiving enough light (for Solar Helicopter).</li> </ul>	<ul style="list-style-type: none"> <li>• Replace batteries with fresh AA batteries, ensuring correct polarity.</li> <li>• Check all wire connections and re-secure them.</li> <li>• Ensure no wooden parts or debris are obstructing the motor or gears.</li> <li>• Move Solar Helicopter to direct, strong sunlight.</li> </ul>
Parts detach during operation.	Loose screws or connections.	Re-tighten all screws and ensure all wooden tabs are fully inserted into their slots.
Difficulty assembling a specific part.	Misinterpretation of instructions or incorrect piece orientation.	Refer to the detailed instruction manual for that specific model. Ensure pieces are oriented correctly before applying force. Adult assistance may be helpful.

## 8. SPECIFICATIONS

- **Product Dimensions:** 9 x 5.7 x 3.2 inches (packaging)
- **Item Weight:** 1.28 pounds
- **Model Number:** YT1001
- **Manufacturer Recommended Age:** 6 - 14 years
- **Material:** Non-toxic plywood
- **Power Source:** 2 x AA batteries per model (not included), Solar power (for Solar Helicopter)



Image 8.1: Detailed dimensions for each of the six assembled wooden models, providing scale and size information.

## 9. WARRANTY AND SUPPORT

Yutin is committed to producing high-quality toy products. If you are not satisfied with your product or require assistance, please contact our after-sales support team. We are dedicated to providing a satisfactory solution. For further assistance, please visit the [Yutin Store on Amazon](#).

## 10. OFFICIAL PRODUCT VIDEOS

No official product videos with 'Seller' as creator type were provided in the product data to embed in this manual.

