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Yutin YT1005

Yutin STEM Kits 4-in-1 Wood Building Crafts Kit Instruction Manual

Model: YT1005

INTRODUCTION

This manual provides detailed instructions for assembling and operating your Yutin STEM Kits 4-in-1 Wood Building Crafts Kit. This kit includes components to build a Tower Crane, a Hydraulic Loader, a Solar-powered Truck, and a Road Roller. Designed to enhance understanding of scientific principles, technology, engineering, and mathematics, this kit encourages hands-on learning and creativity.



Image: The complete Yutin STEM Kits 4-in-1 set, featuring the Tower Crane, Hydraulic Loader, Solar-powered Truck, and Road Roller, alongside the product packaging.

SAFETY INFORMATION

- **Warning:** Not for children under 3 years old due to small parts.
- Adult supervision is recommended, especially for younger children (ages 6-8) during assembly.
- Handle wooden pieces carefully to avoid splinters.
- Ensure all connections are secure before operating any model.

WHAT'S IN THE BOX

Your Yutin STEM Kits package contains the following components:

- Pre-cut wooden pieces for each of the four models (Tower Crane, Hydraulic Loader, Solar-powered Truck, Road Roller)

- Instruction manuals for each model
- Necessary hardware (screws, gears, wires, motors, syringes for hydraulic loader, solar panel for solar truck, wheels)
- Small screwdriver for assembly



Image: A close-up view of the Yutin STEM Kits box, displaying the individual packaged components for the Tower Crane, Hydraulic Loader, Solar-powered Truck, and Electric Roller, along with a small screwdriver.

ASSEMBLY INSTRUCTIONS

Each model comes with its own detailed step-by-step instruction manual. Follow the specific instructions provided with each kit for optimal assembly. General steps are outlined below:

General Assembly Steps:

1. **Review Instructions:** Before starting, carefully read the instruction manual specific to the model you are building.



Image: An open instruction manual illustrating the initial assembly steps for one of the wooden models.

2. **Identify Parts:** Lay out all wooden pieces and hardware. Match them with the diagrams in the instruction manual.



Image: A hand carefully detaching a pre-cut wooden piece from its board, demonstrating the first step in preparing components for assembly.

- 3. Assemble Components:** Follow the numbered steps to connect the wooden pieces. Use the provided screws and other hardware as indicated.



Image: A hand using a small screwdriver to secure two wooden pieces together, illustrating a typical assembly step.

- 4. Electrical/Mechanical Connections:** For models requiring power (Solar-powered Truck, Road Roller) or specific mechanisms (Hydraulic Loader, Tower Crane), ensure all wires, motors, syringes, and strings are connected correctly according to the instructions.
- 5. Final Check:** Once assembled, verify that all parts are securely attached and the mechanism moves freely.



Image: A fully assembled wooden road roller model, showcasing the completed construction.

OPERATING INSTRUCTIONS

1. Tower Crane

The Tower Crane is operated via a remote control. The remote control allows you to move the hook up and down, and rotate the crane arm 180 degrees. Ensure the batteries are correctly installed in the remote control and the crane is properly connected.



TOWER CRANE

The remote control controls the hook up and down.

SOLAR-POWERED TRUCK

Convert solar energy into kinetic energy

Image: The Tower Crane model demonstrating its 180-degree rotation and hook movement, alongside the Solar-powered Truck highlighting its solar energy conversion.

2. Hydraulic Loader

The Hydraulic Loader operates based on the principle of hydraulic transmission. Use the syringes to control the movement of the loader arm and bucket. Pressing the plunger of one syringe will transfer fluid to another, causing movement. Experiment with different pressures to understand the mechanics.

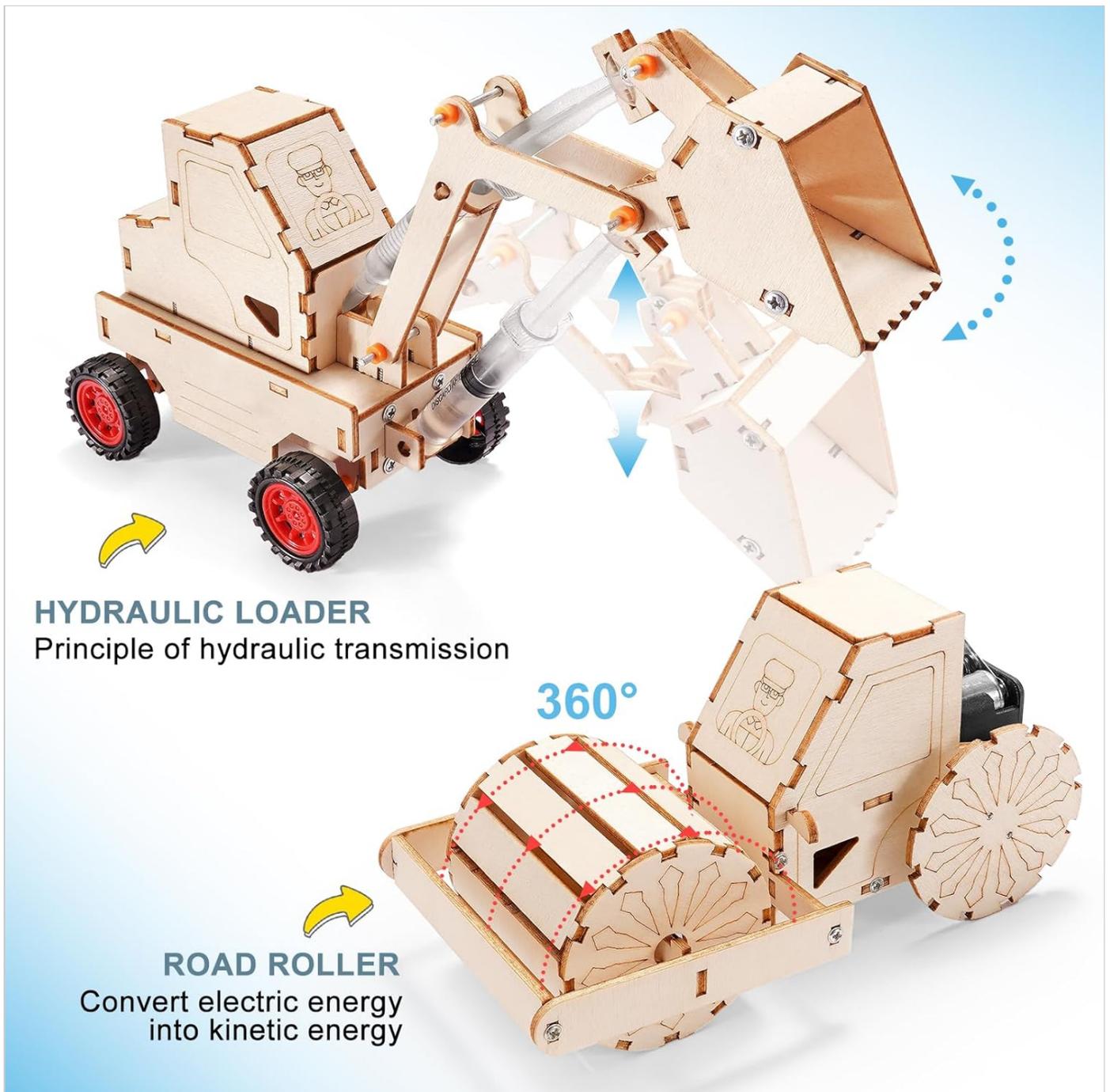


Image: The Hydraulic Loader model illustrating its hydraulic transmission principle, and the Road Roller model showcasing its 360-degree rotating drum.

3. Solar-powered Truck

The Solar-powered Truck converts solar energy into kinetic energy. Place the truck in direct sunlight to activate the solar panel. The solar panel will power the motor, causing the truck to move. Performance may vary depending on sunlight intensity.

3D Wooden Puzzle



4 Pack of
Puzzles



Laser Cutting
Process



Safe and
Non-toxic



High Quality
Plywood



No Glue
Need



Image: The Solar-powered Truck model, emphasizing its construction from high-quality, safe, and non-toxic laser-cut plywood, and its solar panel.

4. Road Roller

The Road Roller is typically powered by a small electric motor, converting electrical energy into kinetic energy to move the roller. Ensure the battery pack is correctly installed and connected. The roller drum is designed to rotate 360 degrees.

MAINTENANCE

- **Cleaning:** Wipe the wooden surfaces with a dry, soft cloth. Avoid using water or cleaning solutions that could damage the wood or electronic components.
- **Storage:** Store the assembled models in a dry place away from direct sunlight and extreme temperatures to prevent warping or damage to the wood and electronic parts.
- **Battery Care:** For models requiring batteries, remove them if the kit will not be used for an extended period to prevent leakage.
- **Component Check:** Periodically check screws and connections to ensure they remain tight.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Parts do not fit together	Incorrect orientation; excess material; wrong part.	Refer to the instruction manual for correct orientation. Gently sand edges if necessary. Ensure you are using the correct piece.
Motorized model not moving	Loose wire connection; dead batteries; motor obstruction.	Check all wire connections. Replace batteries. Ensure no parts are blocking the motor or gears.
Solar-powered Truck not moving	Insufficient sunlight; solar panel obstruction; loose connection.	Move the truck to direct, strong sunlight. Clear any debris from the solar panel. Check connections to the motor.
Hydraulic Loader not moving smoothly	Air in the system; fluid leakage; obstructed syringe.	Ensure syringes are filled correctly and free of air bubbles. Check for any leaks in the tubing. Verify syringes move freely.

SPECIFICATIONS

Brand: Yutin

Model Number: YT1005

Product Dimensions: 9 x 1.6 x 10 inches (packaging)

Item Weight: 1.43 pounds

Manufacturer Recommended Age: 6 - 14 years

Material: Non-toxic plywood

SIZE



Image: A visual representation of the dimensions for each of the four assembled wooden STEM models.

WARRANTY AND SUPPORT

Specific warranty information for the Yutin STEM Kits 4-in-1 Wood Building Crafts Kit is not provided in the product details. For any questions, concerns, or support regarding your product, please refer to the contact information provided on the product packaging or the seller's official website.

Yutin is committed to producing high-quality toy products. If you are not satisfied with your product, please contact their after-sales team for a satisfactory solution.

