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UGEARS 70006

UGEARS Tractor Trailer Mechanical 3D Puzzle Instruction Manual

Model: 70006

1. Introduction

This manual provides detailed instructions for the assembly and operation of your UGEARS Tractor Trailer Mechanical 3D Puzzle, Model 70006. This model is designed as an accessory to the UGEARS Tractor model (sold separately), allowing for enhanced play and display. The kit consists of precisely laser-cut wooden parts that interlock to form a functional mechanical model without the need for glue.
Please read all instructions carefully before beginning assembly to ensure a smooth and enjoyable building experience.

2. Safety Information

- **Recommended Age:** This model is recommended for individuals aged 15 years and older due to the complexity of assembly and the presence of small parts.
- **Small Parts:** The kit contains small parts that may pose a choking hazard. Keep out of reach of young children.
- **Sharp Edges:** While parts are carefully cut, some edges may be sharp. Handle with care during assembly.
- **Material:** The model is made from natural, non-toxic plywood. Avoid prolonged exposure to moisture or extreme temperatures.

3. Package Contents

Upon opening the package, verify that all components are present:

- Laser-cut plywood sheets containing all model parts.
- Detailed step-by-step assembly instructions with illustrations.
- Additional small components (e.g., toothpicks for axles, rubber bands if applicable).

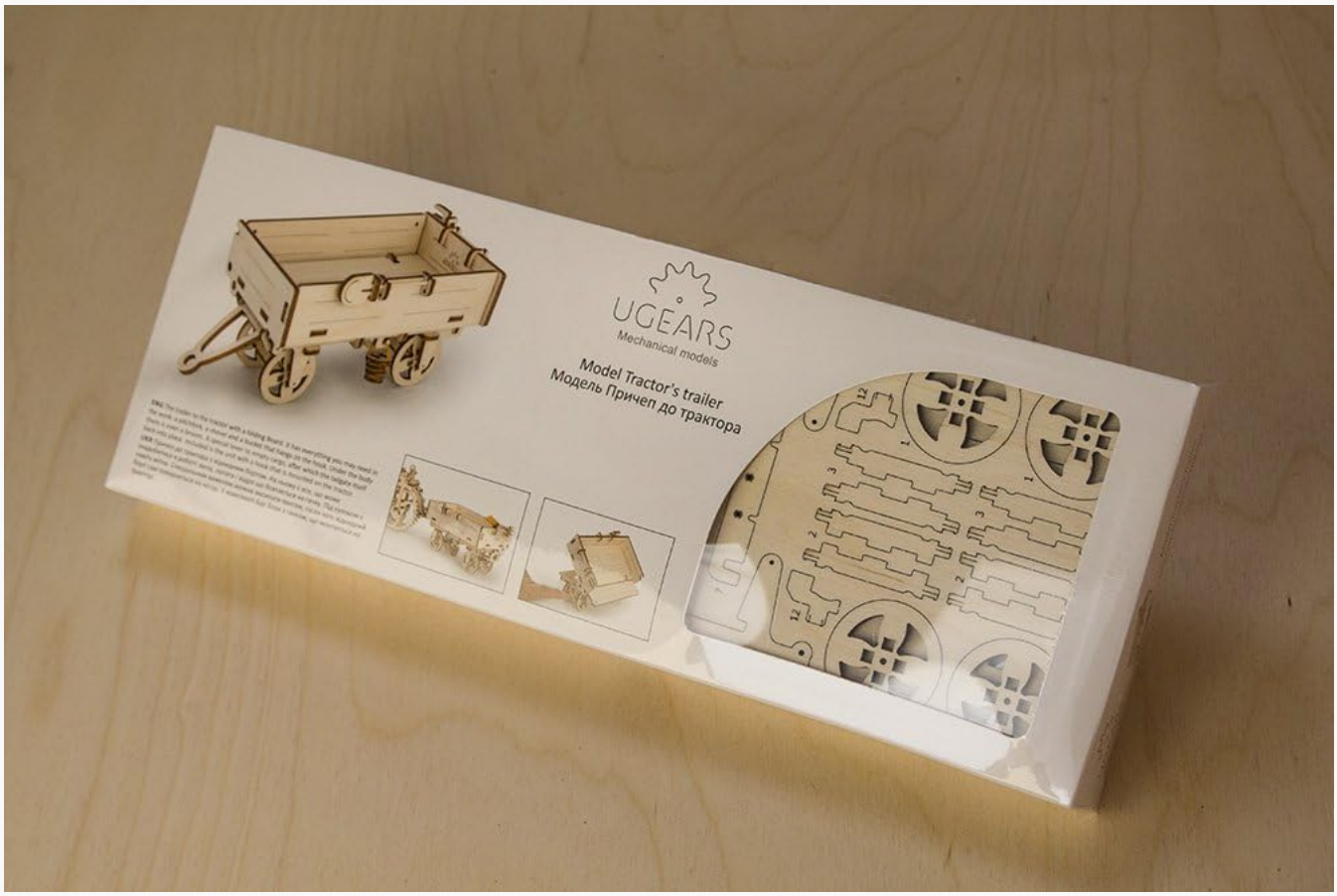

Figure 3.1: UGEARS Tractor Trailer product packaging, showing the box with the model parts and illustrations.

4. Setup (Assembly)

Assembly of the UGEARS Tractor Trailer requires attention to detail and patience. Follow the included pictorial instructions carefully.

4.1 Preparation

- **Workspace:** Prepare a clean, well-lit workspace.
- **Tools:** No special tools are required, but a small hobby knife or sandpaper may be useful for smoothing edges or removing burrs from parts. Wax (e.g., a candle stub) is highly recommended for lubricating gears and moving parts to ensure smooth operation.
- **Part Identification:** Familiarize yourself with the parts on the plywood sheets. Each part is numbered.

4.2 Assembly Steps

1. **Remove Parts:** Gently press out the parts from the plywood sheets. If a part is difficult to remove, use a hobby knife to carefully cut the connecting points.
2. **Smooth Edges:** Lightly sand any rough edges or burrs on the parts to ensure smooth movement and proper fit.
3. **Lubricate:** Apply wax to the axles, gears, and any other moving connections as indicated in the instructions. This reduces friction and improves performance.
4. **Follow Instructions:** Assemble the model step-by-step according to the provided illustrations. Pay close attention to the orientation of parts.
5. **Test Mechanisms:** Periodically test moving parts during assembly to ensure they operate freely. Do not force parts together; if they don't fit, recheck the instructions and part orientation.



Figure 4.1: The fully assembled UGEARS Tractor Trailer, showcasing its wooden construction and detachable hitch mechanism.

5. Operating the Trailer

Once assembled, the UGEARS Tractor Trailer can be operated as a standalone model or connected to the UGEARS Tractor.

5.1 Connecting to the Tractor

The trailer features a hitch mechanism designed to connect securely to the UGEARS Tractor. Align the trailer's hitch with the tractor's coupling point and gently push until it clicks into place. Ensure the connection is firm before moving the combined models.



Figure 5.1: The UGEARS Tractor Trailer shown connected to the UGEARS Tractor, demonstrating how the two models integrate.

5.2 Tilting Mechanism

The trailer is equipped with a functional tilting mechanism. To activate, locate the lever or mechanism on the side or underside of the trailer (refer to your specific assembly instructions for exact location). Engaging this mechanism will allow the trailer bed to tilt, simulating the unloading of cargo.



Figure 5.2: A hand interacting with the UGEARS Tractor Trailer, illustrating the functional tilting bed feature.

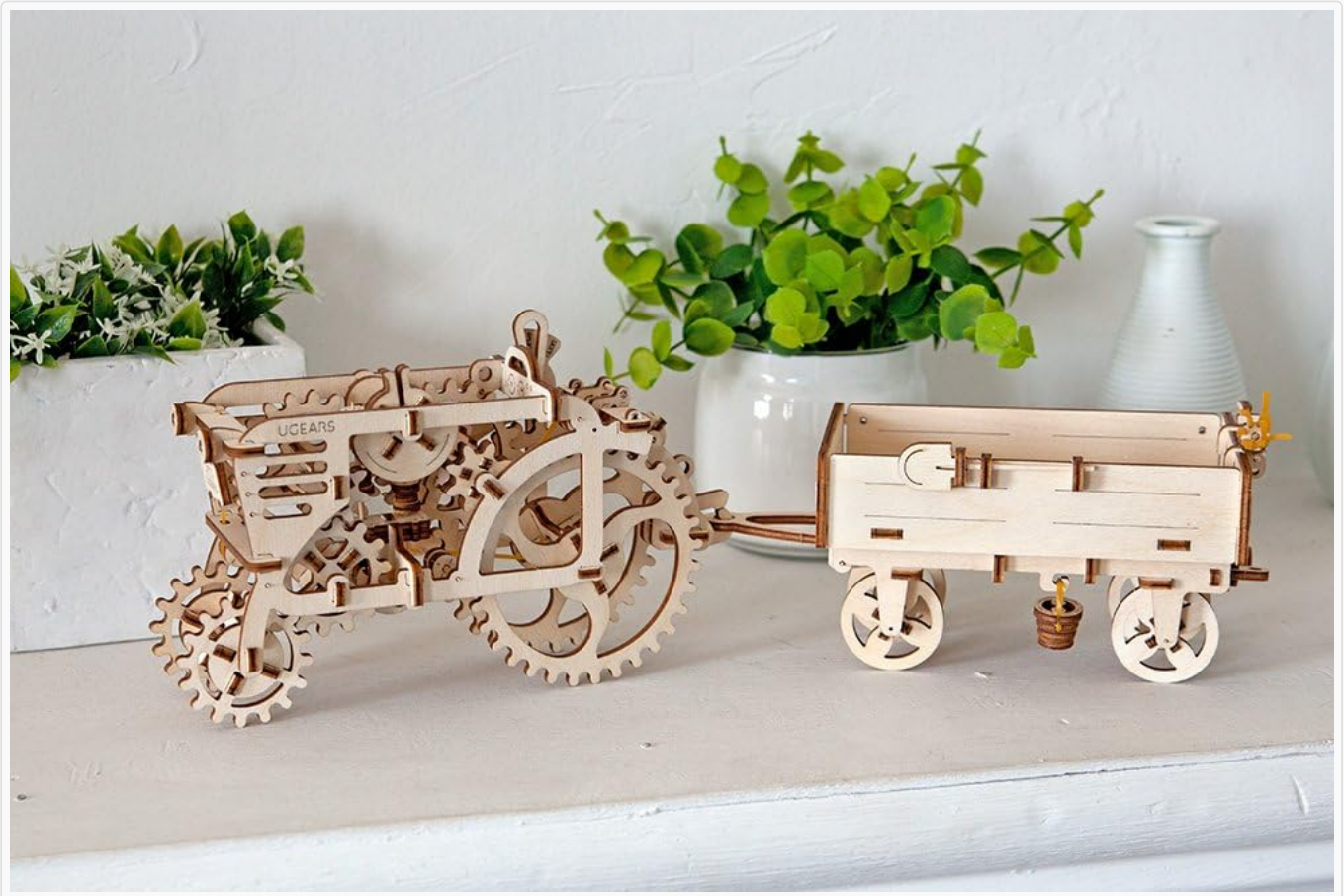

Figure 5.3: The UGEARS Tractor and Trailer models displayed together, showcasing their aesthetic appeal and functional design.

6. Maintenance

To ensure the longevity and smooth operation of your UGEARS Tractor Trailer, follow these maintenance guidelines:

- **Dusting:** Regularly dust the model with a soft, dry cloth or a soft brush to prevent dust accumulation in moving parts.
- **Lubrication:** If the moving parts become stiff over time, reapply wax to the gears and axles as needed.
- **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.
- **Avoid Moisture:** Do not expose the model to water or high humidity, as this can damage the wooden components.

7. Troubleshooting

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

- **Parts Not Fitting:** Ensure you are using the correct parts for each step and that they are oriented correctly. Refer to the assembly diagrams. Gently sand edges if a fit is too tight.
- **Stiff Movement:** If gears or other moving parts are stiff, ensure they are properly lubricated with wax. Check for any misaligned parts or excess friction.
- **Broken Parts:** If a part breaks during removal or assembly, check if a spare is provided in the kit. For critical parts, contact UGEARS customer support for assistance.
- **Model Does Not Function:** Re-examine the entire assembly for any missed steps, incorrectly placed parts, or insufficient lubrication. Pay close attention to gear alignment and connections.

8. Specifications

Feature	Detail
Brand	UGEARS
Model Number	70006
Assembled Dimensions (L x W x H)	8.2 x 4.3 x 3.8 inches (21 x 10 x 10 cm)
Item Weight	8.3 ounces
Material	100% Natural Non-Toxic Plywood
Recommended Age	15 years and up
Assembly Time	Varies depending on individual skill and experience.

9. Warranty and Support

UGEARS products are manufactured to high-quality standards. For information regarding product warranty, missing parts, or technical support, please refer to the contact details provided on the product packaging or visit the official UGEARS website. Please retain your proof of purchase for warranty claims.

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