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UGEARS 70056

UGEARS Heavy Boy Truck VM-03 Instruction Manual

Model: 70056 | Brand: UGEARS

1. INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your UGEARS Heavy Boy Truck VM-03 wooden mechanical model kit. This model is designed for enthusiasts aged 14 and above, offering an engaging and intricate building experience. The kit consists of 541 precisely cut wooden pieces that interlock without the need for glue or special tools, powered by a rubber band motor.



Figure 1: Assembled UGEARS Heavy Boy Truck VM-03 with key specifications. The model measures 15.5 inches (380 mm) in length, 5.1 inches (135 mm) in width, and 6.7 inches (178 mm) in height. It comprises 541 parts, with an estimated assembly time of 8-9 hours, and is rated as an advanced skill level model.

2. SAFETY INFORMATION

- **Age Recommendation:** This model is suitable for individuals aged 14 to 85 years.
- **Small Parts:** The kit contains small parts. Keep out of reach of small children to prevent choking hazards.
- **Material:** The model is made from natural wood. Handle with care to avoid splinters.
- **Assembly:** Follow the instructions carefully. Do not force parts together, as this may cause breakage.

3. PACKAGE CONTENTS

Your UGEARS Heavy Boy Truck VM-03 kit includes the following:

- 541 precisely laser-cut wooden pieces on plywood boards.
- Detailed, illustrated assembly instructions (available in 11 languages).
- Rubber bands for the mechanical motor.
- Wax for lubricating moving parts.



ASSEMBLE ME. ADVENTURE ME

Figure 2: The complete contents of the UGEARS Heavy Boy Truck VM-03 kit, including laser-cut plywood sheets, illustrated instructions, rubber bands, and wax.

4. SETUP (ASSEMBLY INSTRUCTIONS)

Assembly of the Heavy Boy Truck VM-03 requires patience and attention to detail. No glue or special tools are needed, as all parts are designed to interlock precisely.

General Assembly Tips:

- **Part Removal:** Carefully remove pieces from the wooden boards. Use a hobby knife or sandpaper if necessary to smooth edges or remove small burrs.
- **Lubrication:** Apply wax to all gears and moving connections as indicated in the detailed instructions. This ensures smooth operation of the mechanical components.
- **Follow Instructions:** Refer to the included illustrated manual for step-by-step guidance. Each step is clearly depicted to aid in correct assembly.
- **Patience:** Take your time during assembly. Rushing can lead to breakage of delicate parts.



**NO GLUE OR
SPECIAL TOOLS
ARE REQUIRED**

Figure 3: Demonstrates the assembly process, highlighting that no glue or special tools are required. Parts are designed to fit together precisely.

Assembly Video:

For visual guidance during assembly, please refer to the official UGEARS assembly video below:

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Video 1: Official UGEARS video demonstrating the assembly and features of the Heavy Boy Truck VM-03. This video provides a visual walkthrough of key construction steps and showcases the model's functionality.

5. OPERATING INSTRUCTIONS

The UGEARS Heavy Boy Truck VM-03 is a mechanical model powered by a rubber band motor. It features three operational modes: Forward, Back, and Idle.

Winding the Motor:

1. Locate the winding mechanism, typically on the underside or side of the truck.
2. Gently turn the winding key or gear clockwise until you feel resistance. Do not overwind.

Engaging Drive Modes:

The truck features a gear selector to switch between modes:

- **Forward:** Position the selector for forward movement. The truck can travel up to 5 meters on a single wind.
- **Back:** Position the selector for reverse movement.
- **Idle:** This mode disengages the drive, allowing the truck to remain stationary while the internal mechanisms can still be observed.



Figure 4: Illustrates the intricate moving parts and the three operational modes (Forward, Back, and Idle) of the Heavy Boy Truck VM-03, controlled by a gear mechanism.

Trailer Compatibility:

The Heavy Boy Truck VM-03 is designed to be coupled with a compatible UGEARS trailer (sold separately). Ensure the coupling mechanism is securely engaged before operating with a trailer.

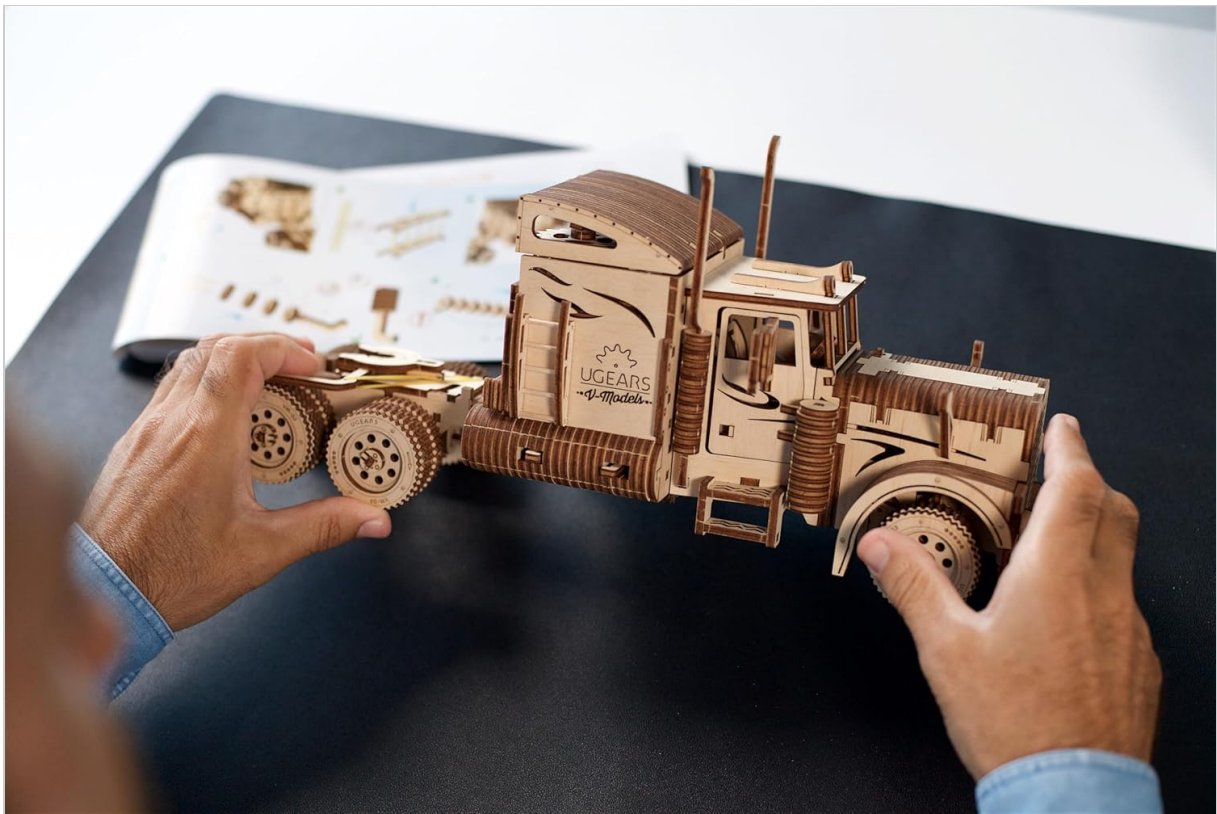


Figure 5: The Heavy Boy Truck VM-03 shown coupled with a trailer, demonstrating its capability to move up to 5 meters on a single winding.

6. MAINTENANCE

To ensure the longevity and smooth operation of your UGEARS Heavy Boy Truck VM-03, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to gently wipe dust from the model. Avoid using water or cleaning solutions, as they can damage the wood.
- **Lubrication:** Periodically reapply wax to all moving gears and connections, especially if the mechanism starts to feel stiff. Refer to the assembly instructions for specific lubrication points.
- **Storage:** Store the model in a dry environment away from direct sunlight, extreme temperatures, and high humidity to prevent warping or damage to the wood.
- **Handling:** Always handle the model with care, especially delicate parts. Avoid dropping or applying excessive force.

7. TROUBLESHOOTING

If you encounter issues with your Heavy Boy Truck VM-03, consider the following common problems and solutions:

- **Model Not Moving:**
 - Ensure the rubber band motor is fully wound.
 - Check that the drive mode selector is correctly engaged (Forward or Back, not Idle).
 - Verify that all gears and moving parts are properly lubricated with wax and move freely without obstruction.
 - Inspect for any misaligned or jammed parts.
- **Parts Breaking During Assembly:**
 - Wooden parts can be delicate. Always remove them gently from the boards.
 - Do not force parts together. If a connection is too tight, gently sand the tab or slot for a smoother fit.
- **Rough Movement:**
 - Reapply wax to all friction points and gears.

- Ensure no dust or debris is interfering with the gears.

8. SPECIFICATIONS

Feature	Detail
Model Number	70056
Brand	UGEARS
Material	Wood (Plywood)
Number of Pieces	541
Assembled Dimensions (L x W x H)	14.88 x 6.69 x 6.7 inches (378 x 170 x 170 mm)
Item Weight	1300 Grams
Estimated Assembly Time	8-9 hours
Skill Level	Advanced
Power Source	Rubber Band (Manual Operation)
Battery Required	No
Recommended Age	14 - 85 years

9. WARRANTY INFORMATION

UGEARS products are manufactured with high-quality materials and undergo strict quality control. While specific warranty details are not provided in this manual, please retain your proof of purchase. For any concerns regarding manufacturing defects or missing parts, please contact UGEARS customer support.

10. SUPPORT

For additional assistance, frequently asked questions, or to purchase replacement parts, please visit the official UGEARS website or contact their customer support team. You can also find more information and products at the UGEARS Store on Amazon.