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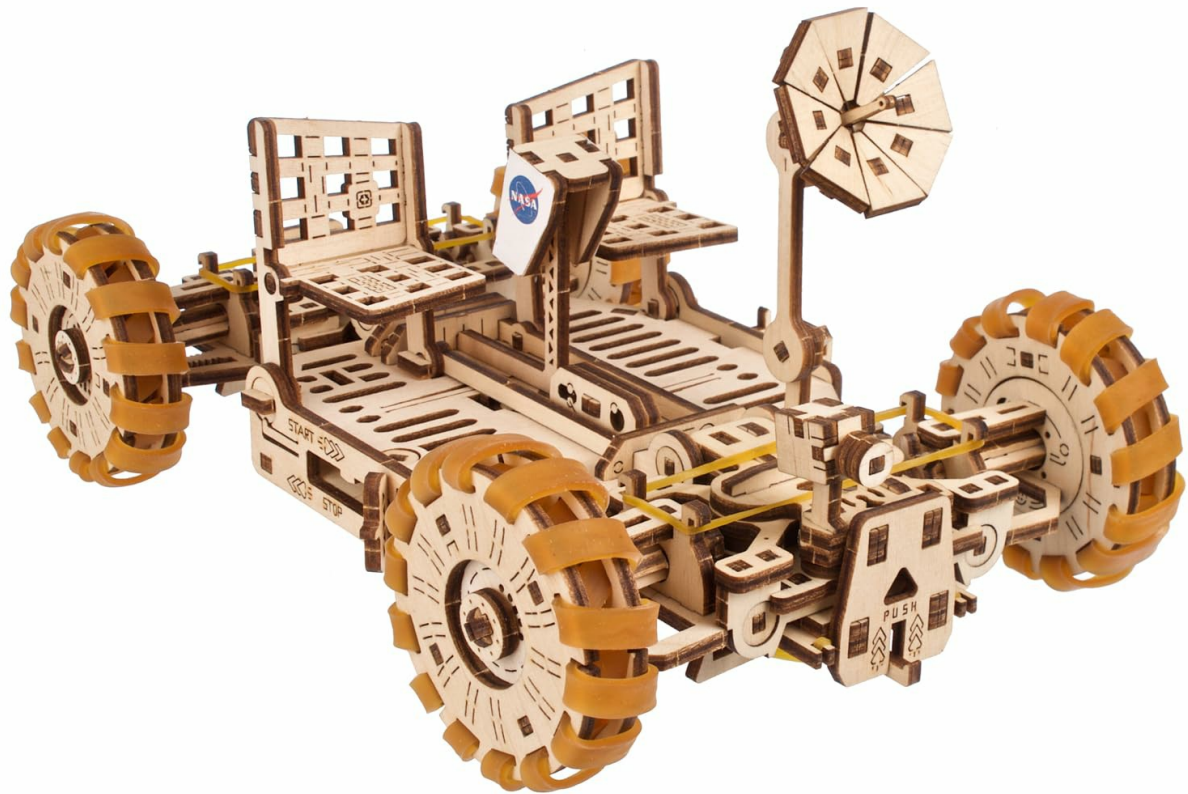
› UGEARS NASA Lunar Rover Model Kit - 3D Wooden Mechanical Puzzle Instruction Manual

UGEARS 70236

UGEARS NASA Lunar Rover Model Kit - Instruction Manual

INTRODUCTION

Welcome to the UGEARS NASA Lunar Rover model kit. This 3D mechanical wooden puzzle offers an engaging assembly experience, culminating in a functional replica of the iconic Lunar Roving Vehicle. Designed for enthusiasts aged 14 and above, this model combines intricate engineering with the satisfaction of hands-on construction.



The fully assembled UGEARS NASA Lunar Rover model.

SAFETY INFORMATION

- Please read all instructions carefully before beginning assembly.
- This kit contains small parts. Keep out of reach of children under 3 years of age due to choking hazards.
- Exercise caution when handling laser-cut wooden parts, as some edges may be sharp.
- Do not apply excessive force during assembly to prevent breakage.
- The recommended age for this model is 14+ years.

PACKAGE CONTENTS

Before starting, verify that all components are present. The UGEARS NASA Lunar Rover kit includes:

- Laser-cut plywood boards with 319 pieces.
- Wax for lubricating moving parts.
- Rubber bands for the dynamic mechanism.

- Detailed assembly instructions in multiple languages.

INSTRUCTIONS ILLUSTRÉES EN 11 LANGES



TOUT EST DANS LA BOÎTE.

All components included in the UGEARS NASA Lunar Rover kit.

ASSEMBLY INSTRUCTIONS

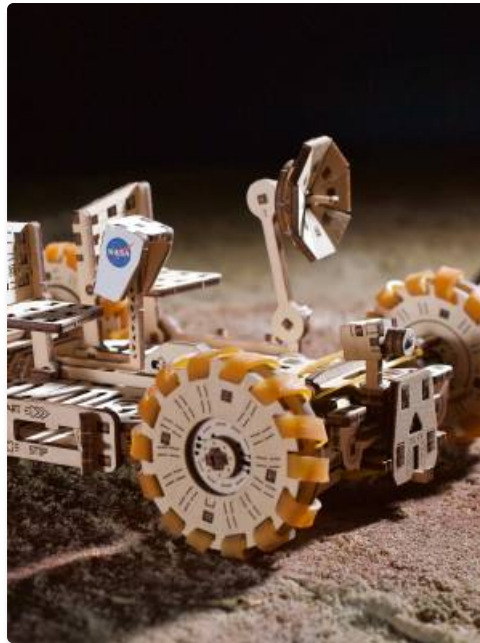
The assembly process for your UGEARS NASA Lunar Rover is designed to be straightforward, requiring no glue or special tools. Follow the illustrated steps provided in your instruction booklet.

Estimated assembly time: Approximately 8 hours.

Assembly Level: Intermediate.

Step 1: Preparation

Carefully remove all pieces from the plywood boards. Use a small tool or your fingers to gently detach them. Sand any rough edges if necessary. Identify and sort the pieces according to the numbering in the manual.



Carefully detaching pieces from the wooden sheets.

Step 2: Waxing Moving Parts

Apply the included wax to all gears and moving connections as indicated in the instructions. This ensures smooth operation of the mechanical elements.

Step 3: Constructing the Chassis

Begin by assembling the main chassis structure, interlocking the designated wooden pieces.

Step 4: Wheel Assembly

Assemble the four wheels, ensuring the rubber treads are correctly fitted for optimal traction.



Assembling the wheels with rubber treads.

Step 5: Integrating the Mechanical Drive

Install the spring motor and rubber band mechanism into the chassis. Pay close attention to the tensioning of the rubber bands.

Step 6: Adding Details

Attach the camera, parabolic antenna, and foldable seats. These components contribute to the model's realistic appearance and functionality.



Key features of the NASA Lunar Rover model.

Step 7: Final Checks

Once all parts are assembled, perform a final check to ensure all connections are secure and moving parts operate freely.

Your browser does not support the video tag.

Official UGEARS video demonstrating the assembly and operation of the NASA Lunar Rover model.

OPERATING INSTRUCTIONS

Your UGEARS NASA Lunar Rover is a self-propelled mechanical model.

- **Winding the Mechanism:** Gently wind the spring motor by rotating the designated winding key or wheel. Do not overwind.
- **Movement:** Release the locking mechanism to allow the rover to move forward. The spring motor, combined with the rubber band drive, provides propulsion.
- **Transformation:** The model features a dynamic transformation mechanism, allowing it to change its configuration. Refer to your manual for specific transformation steps.

- **Steering:** The front wheels are designed to pivot, allowing for directional changes. Adjust them manually before setting the rover in motion.

The rover can travel approximately 3 to 4 meters on a single wind.



The Lunar Rover in motion on a textured surface.

MAINTENANCE

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

- **Lubrication:** Periodically apply wax to all moving gears and axles to reduce friction and wear.
- **Cleaning:** Dust the model regularly with a soft, dry cloth. Avoid using water or chemical cleaners.
- **Storage:** Store the model in a dry environment, away from direct sunlight and extreme temperature fluctuations, which can cause wood to warp.
- **Rubber Bands:** The rubber bands may lose elasticity over time. Replacement bands are typically available from UGEARS or can be sourced if needed.

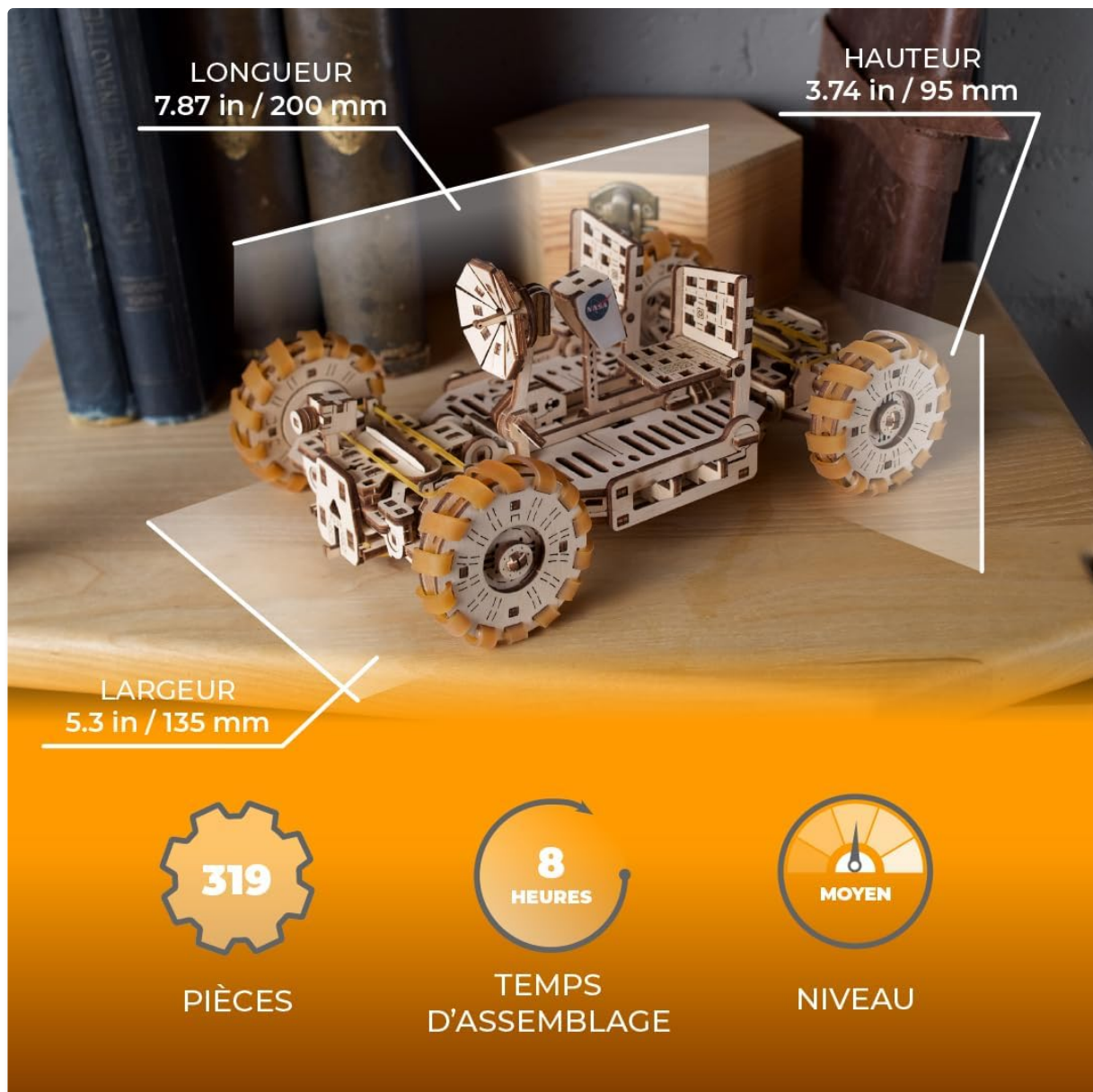
TROUBLESHOOTING

If you encounter issues during or after assembly, consider the following:

- **Parts Not Fitting:** Ensure you are using the correct parts for each step. If a part is too tight, gently sand the edges. If too loose, a small amount of wood glue (not included) can be used, though it is generally not required for UGEARS models.
- **Model Not Moving Smoothly:**
 - Check that all gears and moving parts are properly waxed.
 - Verify that no parts are obstructing the movement of the gears or wheels.
 - Ensure the rubber bands are correctly installed and tensioned.
- **Broken Parts:** The kit includes some spare parts. If a critical piece breaks and no spare is available, contact UGEARS customer support for assistance.

SPECIFICATIONS

Feature	Detail
Brand	UGEARS
Model Number	70236
Puzzle Type	Assembly and Disassembly
Recommended Age	14+ years (168 months)
Number of Pieces	319
Assembled Dimensions (L x W x H)	20 cm x 9.5 cm x 13.5 cm (approx. 7.87 x 3.74 x 5.3 inches)
Material	Wood
Educational Objective	Problem-solving skills
Included Components	Pieces, wax, instructions
Special Features	3D mechanical wooden puzzle with dynamic transformation mechanism and interchangeable elastic bands. Official NASA product.
Operation Mode	Manual
Power Source	Manual winding
Country of Origin	Ukraine



Key specifications and assembly details.

WARRANTY AND SUPPORT

The product warranty complies with applicable legislation.

For further assistance, missing parts, or technical support, please contact UGEARS customer service directly. Visit the official UGEARS website or refer to the contact information provided in your product packaging.