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UGEARS 70267

UGEARS UGT-24 Endurance Racer 3D Wooden Puzzle

Model: 70267
Brand: UGEARS

Introduction

This manual provides detailed instructions for the assembly, operation, and care of your UGEARS UGT-24 Endurance Racer 3D Wooden Puzzle. Please read all instructions carefully before beginning assembly to ensure a smooth and enjoyable building experience. This model is designed for individuals aged 14 years and up due to its complexity and numerous small parts.



Image: The UGEARS UGT-24 Endurance Racer 3D Wooden Puzzle box alongside the fully assembled model, showcasing its intricate design and packaging.

Safety Information

Warning: Not for children under 3 years. Contains small parts which may pose a choking hazard.
Always handle wooden parts with care to avoid splinters. Keep away from open flames and excessive moisture. Ensure a clean and well-lit workspace during assembly.

What's in the Box

Your UGEARS UGT-24 Endurance Racer kit includes the following components:

- Precision-cut plywood sheets containing all model parts.
- Sandpaper for smoothing edges.
- Detailed instruction manual with illustrations.
- Additional spare parts for critical components.

Assembly Instructions

The UGT-24 Endurance Racer is an advanced 3D wooden puzzle designed for experienced builders. It consists of 970 parts and requires careful attention to detail. No glue or special tools are required for assembly.

1. **Preparation:** Carefully unbox the kit and identify all plywood sheets. Familiarize yourself with the parts layout.
2. **Part Removal:** Gently press out each part from the plywood sheets. Use the included sandpaper to smooth any rough edges or burrs.
3. **Follow the Manual:** Refer to the illustrated 108-page instruction guide for step-by-step assembly. Each step is clearly depicted to simplify the building process.
4. **Lubrication:** For moving parts, especially gears and axles, apply wax or paraffin (not included) to reduce friction and ensure smooth operation.
5. **Testing Mechanisms:** Periodically test the mechanical functions as instructed in the manual. This helps identify and correct any issues early in the assembly process.

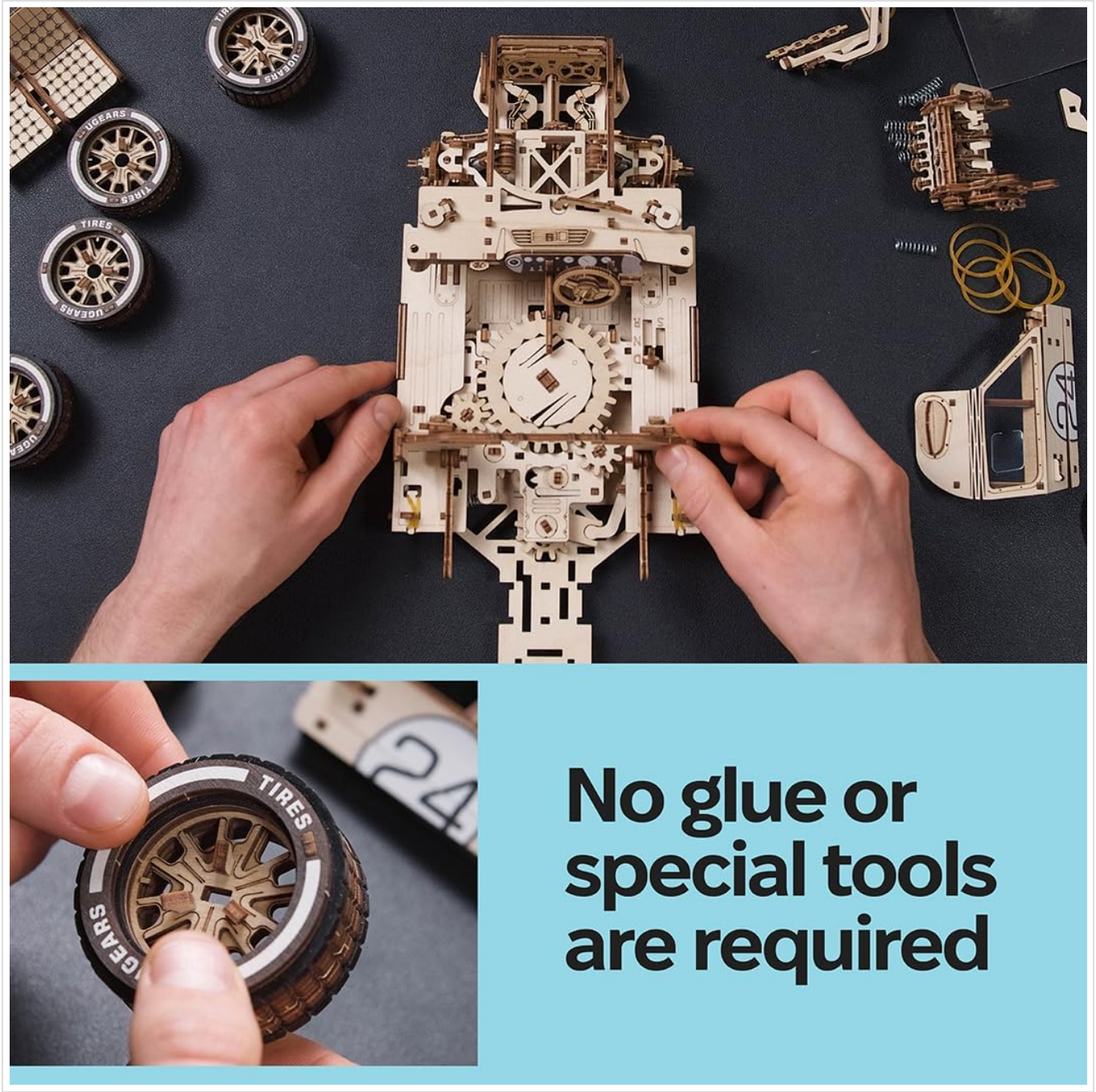

Image: A close-up view of hands carefully assembling the intricate wooden components of the UGT-24 Endurance Racer, demonstrating the precision required and the 'no glue' assembly method.

Image: A composite image illustrating the assembly process, with hands working on the main chassis and a detailed view of how the silicone tires are fitted onto the wooden wheels. This highlights that no glue or special tools are needed.

Operating Instructions

Once fully assembled, your UGT-24 Endurance Racer is a functional mechanical model with several interactive features.

- **Spring Motor:** The model is powered by a spring motor. Wind the motor using the designated mechanism as shown in the manual.
- **Gear Shifter:** The car features a four-position gear shifter for different modes of operation:
  - **Drive (D):** Car moves slowly forward.
  - **Sport (S):** Car drives very fast forward.
  - **Reverse (R):** Car moves backward.
  - **Neutral (N):** Car remains stationary, simulating engine work with moving pistons.
- **Realistic Mechanics:** Observe the realistic motion of the transmission, pistons, suspension, and radiator fan when the model is in operation. The V-8 engine pistons move as the car runs.
- **Opening Parts:** The doors, front, and rear sections of the car can be opened, revealing the detailed interior and engine components.
- **Movement:** The model can travel up to 6 meters on a smooth surface. The silicone tires provide enhanced grip.

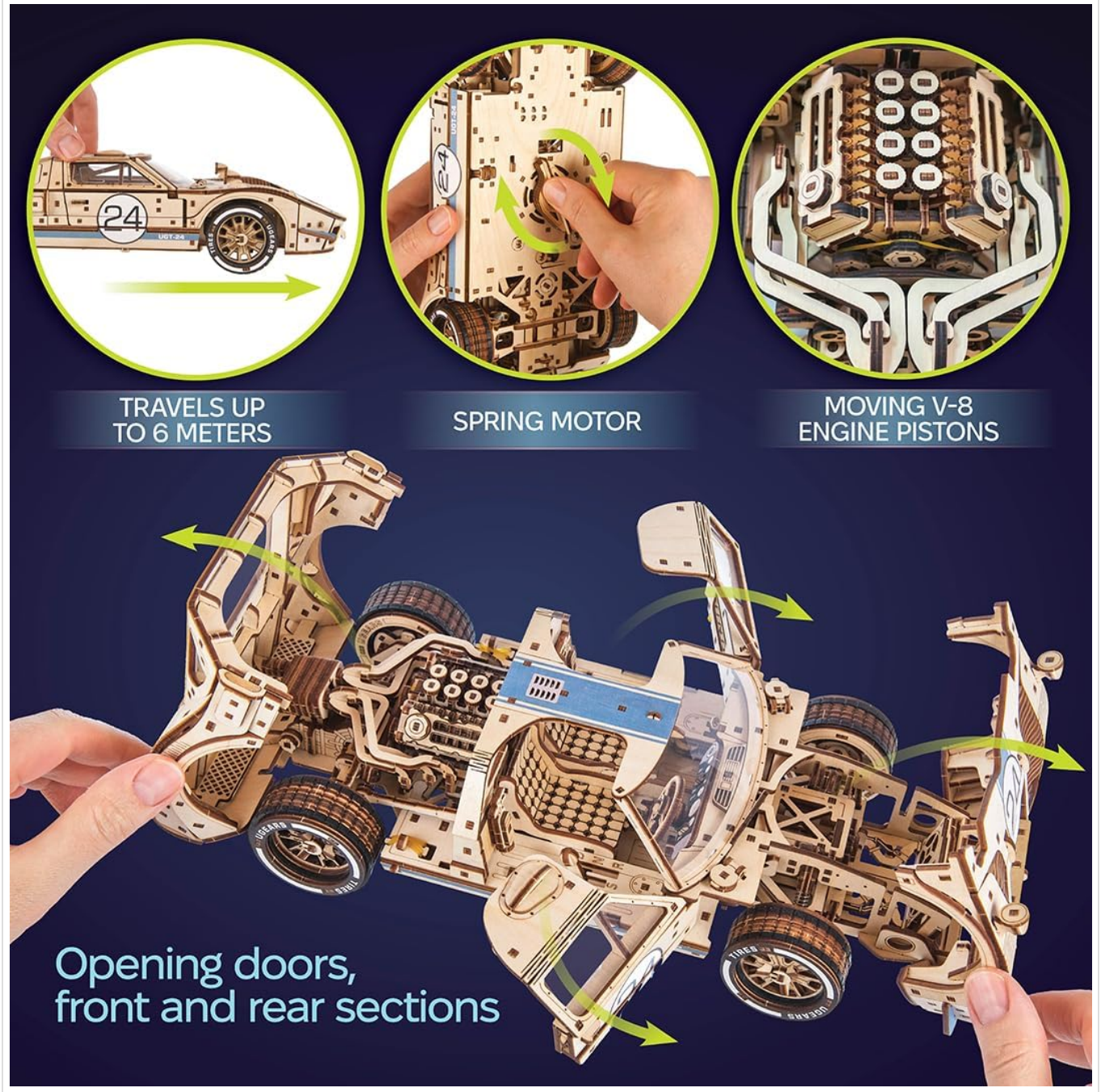

Image: An illustration highlighting the key operational features of the UGT-24 Endurance Racer, including its ability to travel up to 6 meters, the spring motor mechanism, moving V-8 engine pistons, and functional opening doors, front, and rear sections.



Image: A detailed view of the gear shifter mechanism on the UGT-24 Endurance Racer, showing its four distinct positions: Drive (D), Sport (S), Reverse (R), and Neutral (N), each with a description of its function.



Image: A close-up of the UGT-24 Endurance Racer's wheels, emphasizing the eight silicone tires designed to provide better grip and

stability during movement.

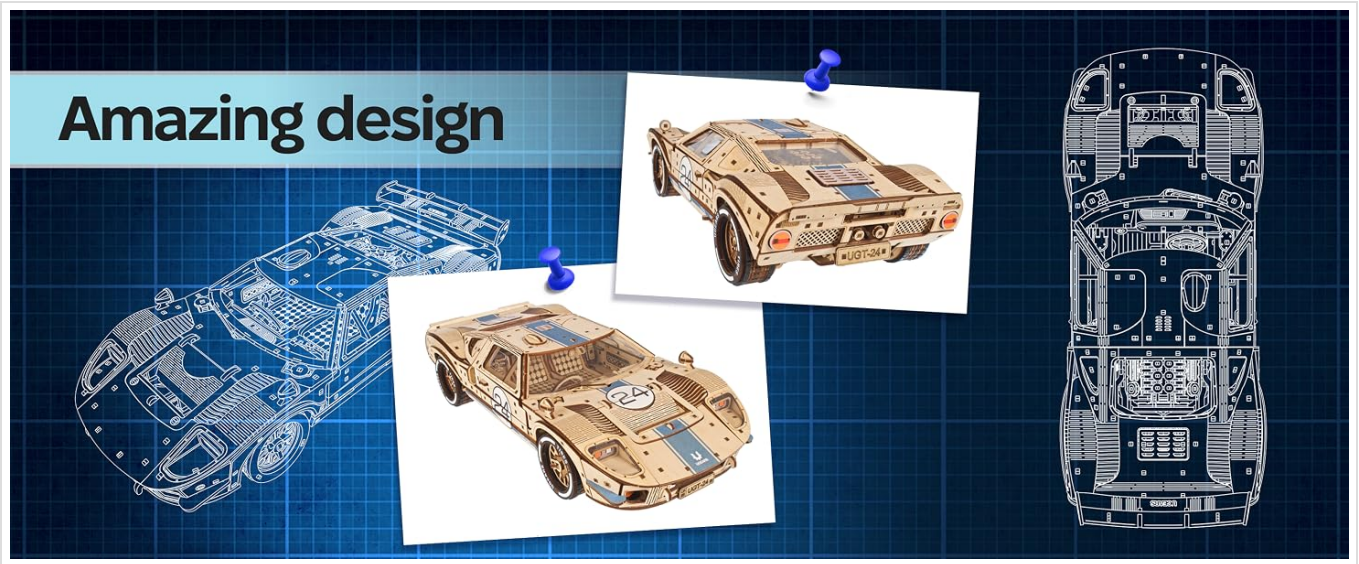

Image: An illustration detailing the multi-link spring suspension system on the UGT-24 Endurance Racer, highlighting its function in absorbing bumps and maintaining stability across all four wheels.

Maintenance

To ensure the longevity and optimal performance of your UGEARS UGT-24 Endurance Racer, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to gently wipe away dust. Avoid using water or cleaning solutions, as they can damage the wood.
- **Lubrication:** Periodically reapply wax or paraffin to all moving wooden parts, especially gears and axles, to maintain smooth operation and prevent wear.
- **Storage:** Store the model in a dry environment, away from direct sunlight and extreme temperature fluctuations, to prevent warping or cracking of the wood.
- **Handling:** Handle the model with care, especially delicate parts, to avoid accidental breakage.

Troubleshooting

If you encounter issues with your UGT-24 Endurance Racer, consider the following:

- **Parts Not Moving Smoothly:** Ensure all moving parts are properly waxed. Check for any misaligned or jammed components. Refer to the manual for specific assembly steps related to the affected mechanism.
- **Model Not Running:** Verify that the spring motor is fully wound. Check the gear shifter position. Inspect the drive train for any obstructions or loose connections.
- **Broken or Damaged Parts:** While the kit includes spare parts, if a critical component breaks, UGEARS offers a replacement service. Refer to the manufacturer's website for details on ordering free replacements.
- **Difficulty During Assembly:** The UGT-24 is an advanced model. If you find a step particularly challenging, review the illustrated instructions carefully. Online tutorials may also be available from UGEARS to assist with complex sections.

Specifications

Feature	Detail

Product Dimensions	14.17 x 6.3 x 0.04 inches (unassembled sheet size)
Assembled Dimensions (Approx.)	Length: 14.2 in / 360 mm, Width: 6.3 in / 160 mm, Height: 3.5 in / 90 mm
Item Weight	2.95 pounds
Model Number	70267
Number of Parts	970
Recommended Age	14 years and up
Assembly Level	Advanced
Material	Plywood
Assembly Time	Hours (varies by individual)

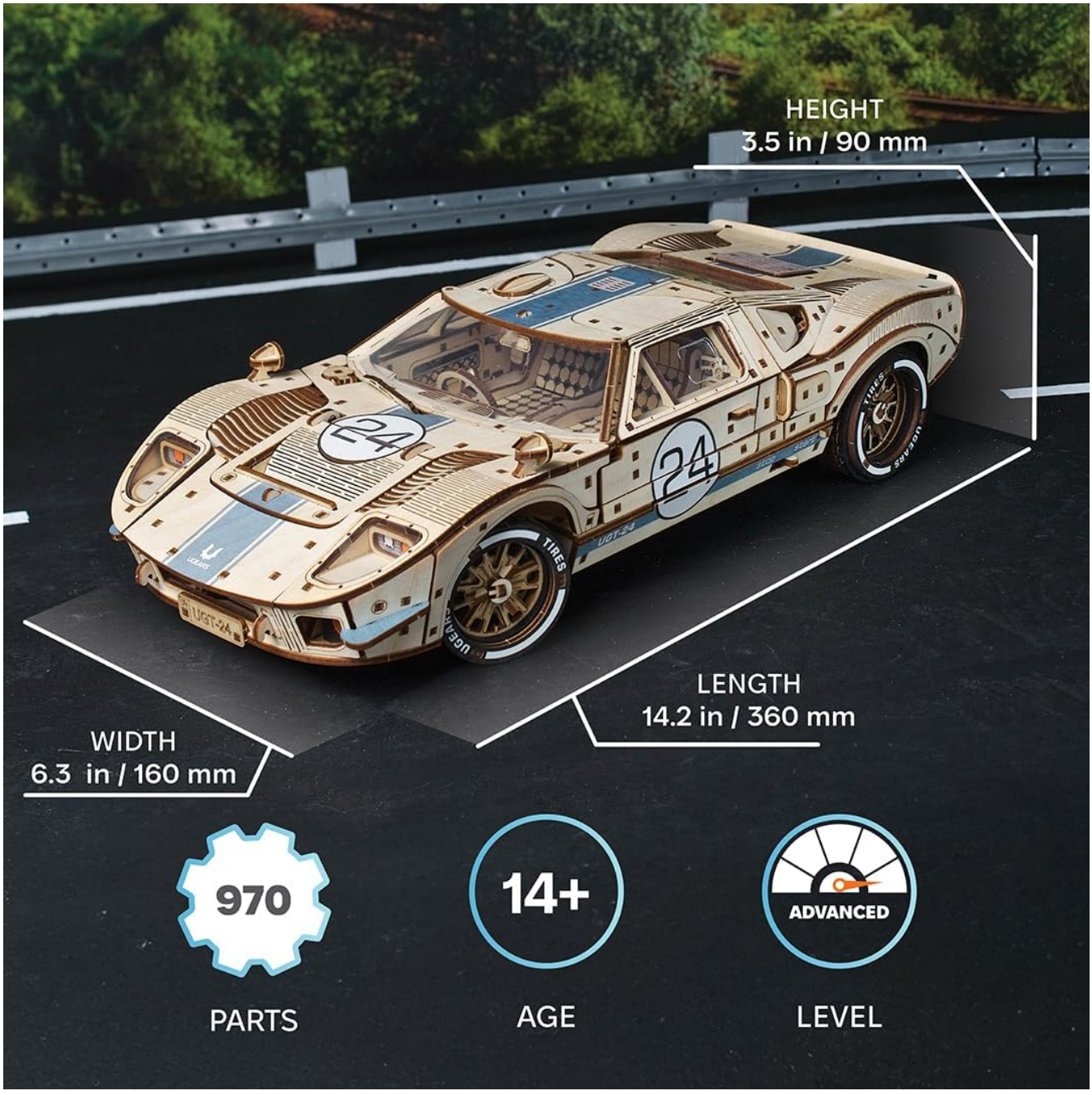

Image: An infographic displaying key specifications of the UGT-24 Endurance Racer, including its assembled dimensions (Length 14.2 in

/ 360 mm, Width 6.3 in / 160 mm, Height 3.5 in / 90 mm), total parts (970), recommended age (14+), and advanced difficulty level.

Support and Warranty

For any questions, missing parts, or support regarding your UGEARS UGT-24 Endurance Racer, please contact UGEARS customer service. Information on warranty and replacement parts can typically be found on the official UGEARS website or by contacting their support directly.
Visit the official UGEARS website for additional resources and contact information:UGEARS Official Website

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