Wood Trick Wood Trick Space Spider

Wood Trick Mechanical Spider 3D Wooden Puzzle Instruction Manual

Model: Wood Trick Space Spider

Introduction

This manual provides detailed instructions for assembling, operating, and maintaining your Wood Trick Mechanical Spider 3D Wooden Puzzle. This model is designed for experienced DIY hobbyists and offers a challenging yet rewarding building experience. The completed model is a mechanical spider that wiggles its legs and runs, powered by a rubber band motor. Please read all instructions carefully before beginning assembly.



Image: The assembled Wood Trick Mechanical Spider 3D Wooden Puzzle, showcasing its intricate wooden design.

1. Setup and Assembly

The Wood Trick Mechanical Spider kit is made from natural wood and contains 245 pieces. No glue or special tools are required for assembly. The estimated assembly time is 4-6 hours, and the complexity is considered high.

1.1 Unpacking and Preparation

- Carefully unpack all components from the box.
- Identify all wooden sheets containing the puzzle pieces.
- Ensure you have the included sanding paper and paraffin wax.



Image: The Wood Trick Mechanical Spider kit, showing the box, wooden sheets with 245 parts, and the instruction manual.

1.2 Key Assembly Recommendations

- **Sanding:** Use the included sanding paper to remove any burrs or rough edges from the laser-cut pieces, especially

on gears and moving parts. This is crucial for smooth operation.

- **Waxing:** Thoroughly apply the included paraffin wax to all gears and any parts that will rub against each other. Proper lubrication significantly reduces friction and ensures the model functions correctly.
- **Delicate Handling:** Be delicate when removing constructor elements from the wooden boards to prevent breakage.
- **Connecting Parts:** If you encounter difficulties connecting parts, gently treat the connecting points with paraffin wax. Avoid excessive force.



Image: A close-up of hands carefully detaching a wooden piece from a laser-cut sheet, illustrating the precision required during assembly.

1.3 Assembly Video Guide

For a detailed visual guide on the complete assembly process, refer to the official Wood Trick video. This video provides step-by-step instructions to assist you.

Your browser does not support the video tag.

Video: Official Wood Trick overview of the Mechanical Spider 3D Wooden Puzzle, demonstrating assembly and operation. Duration: 1 minute, 2 seconds.

2. Operating Instructions

Once fully assembled and properly lubricated, your Mechanical Spider model is ready for operation. It is powered by a rubber band motor.

2.1 Activating the Mechanism

- Locate the starting lever on the model.
- Rotate the starting lever to wind the rubber band motor.
- Release the lever to set the spider in motion. The spider will wiggle its legs and move forward.



Image: A detailed view of the internal mechanical gears and the rubber band motor that powers the spider's movement.

2.2 Movement Characteristics

The mechanical spider is designed to realistically mimic a spider's movement, wiggling its legs as it walks. It can run up to 6.5 feet on a smooth, flat surface when fully wound.



Image: The assembled wooden spider model, showing its approximate dimensions of 5 inches in height, 12.5 inches in width, and 30 inches in length.

3. Maintenance

Proper maintenance ensures the longevity and smooth operation of your mechanical spider model.

3.1 Lubrication

- Regularly inspect all moving parts, especially gears and joints, for friction.
- Reapply paraffin wax to any areas showing increased resistance or friction. Ensure all contact points are well-lubricated.

3.2 Rubber Band Replacement

- Over time, the rubber bands powering the mechanism may deteriorate or lose elasticity.
- If the spider's movement becomes weak or inconsistent, replace the rubber bands with new ones of similar size and strength.

3.3 Cleaning

- Use a soft, dry cloth to gently clean the wooden surfaces.
- Avoid using water or chemical cleaners, as these can damage the wood.

4. Troubleshooting

If your Mechanical Spider model does not operate as expected, consider the following troubleshooting steps:

4.1 Model Does Not Move or Moves Slowly

- **Insufficient Lubrication:** This is the most common issue. Ensure all gears and moving parts are thoroughly waxed. Reapply wax generously to all friction points.
- **Burrs on Parts:** Check if any pieces, especially gears, have small burrs from the laser cutting process. These can cause significant friction. Use the sanding paper to smooth them out.
- **Misaligned Gears:** Verify that all gears are correctly aligned and mesh smoothly. Even a slight misalignment can create too much resistance for the rubber band motor.
- **Rubber Band Tension:** Ensure the rubber band motor is properly wound and has sufficient tension. If the rubber bands are old or stretched, they may need replacement.
- **Part 71 Adjustment:** Some users have reported that piece N°71 can impede rotation of the leg base. If you experience this, carefully file down piece N°71 slightly to reduce interference.

4.2 Parts Breaking During Assembly

- Avoid forcing pieces together. If a part does not fit easily, re-check the instructions and ensure it is the correct piece and orientation.
- Gently sand or wax the connecting tabs if they are too tight.

5. Specifications

Brand:	Wood Trick
Model Name:	Wood Trick Space Spider
Material:	Natural Wood
Number of Pieces:	245
Assembled Dimensions (L x W x H):	12.6 x 9.84 x 4.92 inches (32 x 25 x 13 cm)
Item Weight:	0.76 Kilograms
Power Source:	Rubber band motor (Manual operation)
Assembly Required:	Yes
Recommended Skill Level:	Intermediate
Recommended Age:	14+ years (168 months minimum)

6. Warranty and Support

6.1 Warranty Information

Specific warranty details for the Wood Trick Mechanical Spider 3D Wooden Puzzle are not provided in this manual. Please refer to the product packaging or contact Wood Trick customer service for warranty inquiries.

6.2 Additional Support

An official User Guide in PDF format is available for download. You can access it via this link: Wood Trick Mechanical Spider User Guide (PDF).
For further assistance or to explore other Wood Trick products, visit the official Wood Trick store: Wood Trick Store on Amazon.

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