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Spirograph 3312498

The Original Spirograph Kit with Markers

USER MANUAL

1. Introduction

Welcome to the world of Spirograph! This classic art and design kit allows you to create countless intricate and beautiful patterns using a system of gears and wheels. Combining principles of art and mathematics, the Spirograph provides a unique and engaging creative experience for users aged 8 and up.



Image 1.1: The Original Spirograph Kit with Markers packaging.

2. Included Components

Your Spirograph kit contains all the essential pieces to begin creating amazing designs:

- 19 Spirograph Wheels
- 2 Spirograph Rings
- 1 Spirograph Rack
- 8 Markers (various colors)
- Spiro-Putty (0.17 oz / 5g)
- Design Paper
- 14-page Guide Book
- Storage Tray



Image 2.1: All components of the Spirograph kit, including wheels, rings, rack, markers, Spiro-Putty, design paper, guide book, and storage tray.

3. Setup

Follow these steps to prepare your Spirograph for use:

1. **Prepare your surface:** Ensure you have a flat, stable surface for drawing.
2. **Place paper:** Lay a sheet of design paper (or any paper) flat on your drawing surface.
3. **Secure the ring or rack:** Choose one of the larger Spirograph rings or the rack. Use small pieces of the reusable Spiro-Putty to secure the chosen piece firmly to your paper. This prevents the piece from shifting during drawing. The Spiro-Putty is designed to hold the pieces in place without leaving pinholes in your artwork.
4. **Select a wheel:** Choose one of the smaller Spirograph wheels.

4. Operating Instructions

Creating designs with your Spirograph is simple and fun:

1. **Position the wheel:** Place the chosen Spirograph wheel inside the secured ring or along the rack, ensuring its teeth

engage with the teeth of the larger piece.

2. **Insert the marker:** Select a marker and insert its tip into one of the small holes on the Spirograph wheel. The different holes will produce different patterns.
3. **Begin drawing:** While holding the outer ring/rack firmly in place with one hand, gently rotate the inner wheel with the other hand, guiding the marker around the inside edge of the ring or along the rack. Maintain constant pressure on the marker and ensure the wheel's teeth remain engaged.
4. **Complete the design:** Continue rotating the wheel until the pattern connects back to its starting point. Lift the marker and the wheel to reveal your completed design.
5. **Experiment:** Try different combinations of wheels, rings, racks, and marker holes to create a vast array of unique and intricate patterns. The included guide book provides examples and inspiration.



Image 4.1: Example of Spirograph components and various designs that can be created.



Image 4.2: A close-up view demonstrating the use of a Spirograph wheel and ring to create a pattern.

5. Maintenance

- **Cleaning:** Wipe Spirograph pieces with a soft, damp cloth if they become dirty. Avoid harsh chemicals.
- **Marker Care:** Always replace marker caps tightly after use to prevent them from drying out.
- **Spiro-Putty Storage:** Store the Spiro-Putty in its original packaging or an airtight container to keep it pliable.
- **Storage:** Store all components in the provided storage tray to keep them organized and prevent loss.

6. Troubleshooting

Problem	Possible Cause	Solution
Markers are dry.	Caps not replaced tightly; prolonged storage.	Ensure caps are always replaced firmly. If markers are slightly dry, try dipping the tip in a small amount of water for a few seconds. Replace severely dried markers.
Spiro-Putty is hard.	Exposure to air; old putty.	Knead the putty vigorously to soften it. If it remains hard, it may need to be replaced. Store putty in an airtight container.

Problem	Possible Cause	Solution
Designs are uneven or incomplete.	Wheel slipped; insufficient pressure on marker; paper not secured.	Ensure the outer ring/rack is firmly secured with Spiro-Putty. Apply consistent, gentle pressure to the marker. Make sure the wheel's teeth remain engaged with the outer piece's teeth throughout the drawing process.

7. Specifications

- Brand:** Spirograph
- Model Name:** Original Spirograph Kit
- Model Number:** 3312498
- UPC:** 772223312498
- Age Range:** 8 and up
- Material:** Plastic (for gears/wheels), Paper (for design sheets)
- Number of Pieces:** 46 (including wheels, rings, rack, markers, putty, paper, guide book, tray)
- Special Features:** Precision engineered wheels and rings, reusable Spiro-Putty for pinhole-free designs.

8. Warranty and Support

For any questions, concerns, or support regarding your Original Spirograph Kit, please refer to the contact information provided in the product packaging or visit the official Spirograph website. While specific warranty details are not provided in this manual, general product support is available from the manufacturer.

For more information, you may visit the [Spirograph Store on Amazon](#).

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