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› Ravensburger GraviTrax Obstacle Course Set (Model 26866) Instruction Manual

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Experience the Power of Gravity

1. INTRODUCTION

The Ravensburger GraviTrax Obstacle Course Set is an interactive track system designed to engage users in the principles of gravity, magnetism, and kinetics. This STEM toy allows for the construction of dynamic marble runs with various obstacles and elements, fostering creativity and problem-solving skills. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your GraviTrax set.



Image 1.1: The complete Ravensburger GraviTrax Obstacle Course Set, including the packaging and all track components.

2. SAFETY INFORMATION

WARNING: Not suitable for children under 3 years due to small parts which could present a choking hazard. Adult supervision is recommended during assembly and play, especially for younger users. Please retain this information for future reference.

3. PACKAGE CONTENTS

Your Ravensburger GraviTrax Obstacle Course Set includes the following 153 pieces:

- Instructions (F, EN)
- Construction plans
- 4 Base plates
- 2 Transparent levels
- 6 Balls
- 56 Large height tiles
- 12 Small height tiles

- 2 Green wedge height tiles
- 21 Curves
- 3 Junctions
- 2 Switches
- 1 3-in-1 block
- 1 Vortex
- 1 Launch pad
- 1 Extra-long narrow plastic track
- 1 Extra-long slow plastic track
- 3 Long plastic tracks
- 6 Medium plastic tracks
- 9 Short plastic tracks
- 3 Length-adjustable bridges
- 1 Magnetic cannon
- 3 Transfers
- 2 Trampolines
- 1 Zipline
- 2 Spirals
- 1 Finish line
- 4 Basic tiles
- Inserts for basic tiles: 2 Catchers, 1 Freefall, 1 Splash, 1 Landing

4. SETUP GUIDE

To begin building your GraviTrax marble run, first lay out the base plates on a flat, stable surface. Refer to the included construction plans for initial track designs or unleash your creativity to build your own unique courses. The modular elements allow for flexible arrangement and adaptation.



Image 4.1: An overview of the GraviTrax components ready for assembly.

Connect the height tiles and tracks to form your desired path. Ensure all connections are secure to prevent marbles from derailing. Experiment with different elements like the Trampoline, Zipline, and Magnetic Cannon to add complexity and excitement to your track.

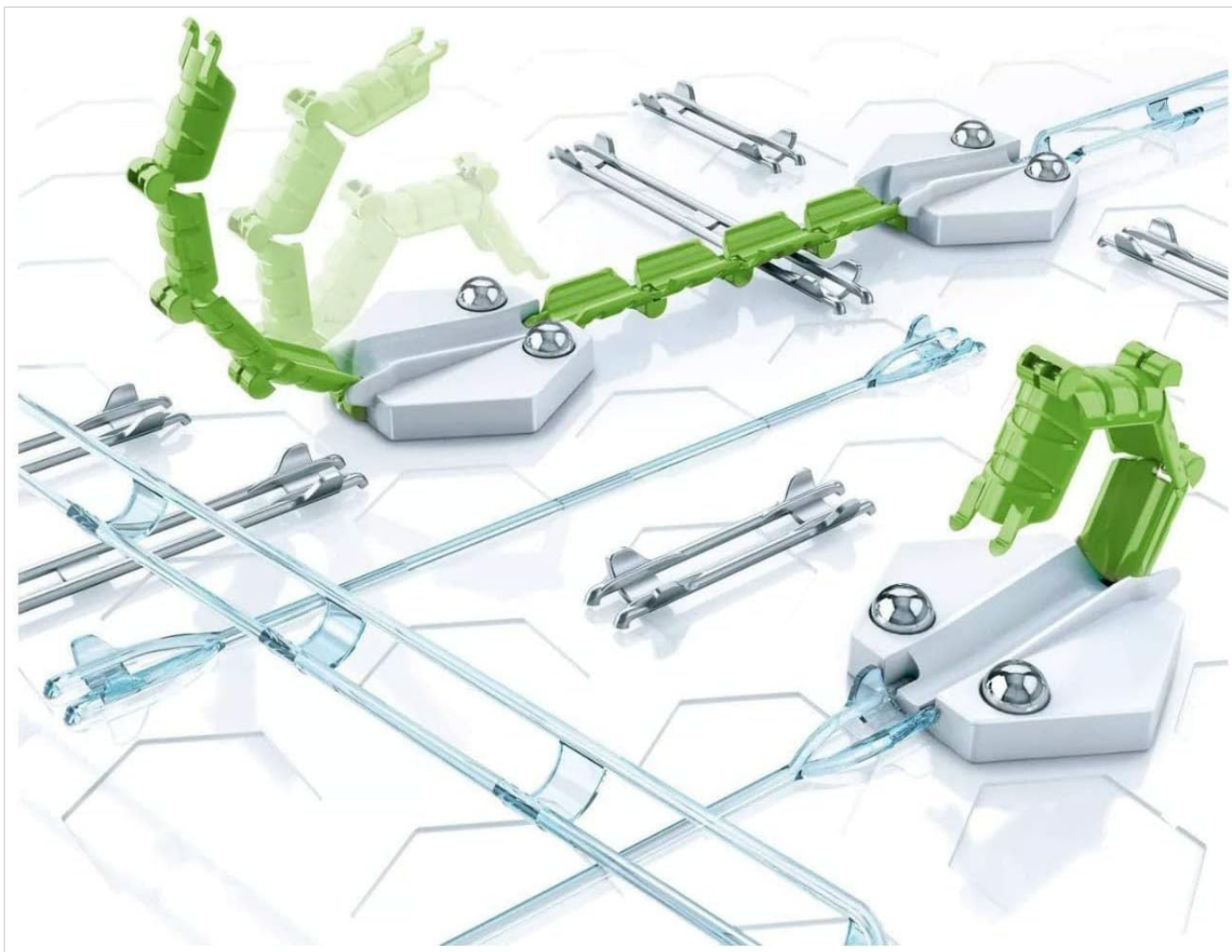


Image 4.2: Detail of how GraviTrax track pieces and connectors fit together.

5. OPERATING YOUR GRAVI TRAX SET

Once your track is constructed, place a marble at the starting point (e.g., the Launch Pad). Release the marble and observe its journey through the course. The GraviTrax system demonstrates principles of:

- **Gravity:** The primary force propelling the marbles downwards.
- **Magnetism:** Used in elements like the Magnetic Cannon to give marbles an extra boost.
- **Kinetics:** The study of motion and energy transfer as marbles interact with track elements.

Experiment with different marble release points, track configurations, and obstacle placements to understand how these factors influence the marble's speed and trajectory. The goal is to guide the marbles from start to finish using the various elements provided.



Image 5.1: A marble in motion, illustrating the dynamic play of the GraviTrax system.



Image 5.2: A child engaging with the GraviTrax set, demonstrating hands-on interaction.

6. CARE AND MAINTENANCE

To ensure the longevity of your GraviTrax set, follow these care instructions:

- **Cleaning:** Wipe components with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Storage:** Store all pieces in their original packaging or a suitable container to prevent loss and damage. Keep the set away from direct sunlight and extreme temperatures.
- **Handling:** Handle all track pieces and elements with care to avoid breakage. Do not force connections.

7. TROUBLESHOOTING COMMON ISSUES

If you encounter issues with your GraviTrax set, consider the following:

- **Marble Stops:** Check for any misaligned track pieces or loose connections. Ensure there are no obstructions in the marble's

path. Adjust height tiles to provide sufficient incline.

- **Elements Not Functioning:** Verify that special elements like the Magnetic Cannon or Trampoline are correctly assembled and positioned according to the instructions or your design.
- **Stability Issues:** Ensure the base plates are on a completely flat surface. Re-check the stability of height tiles and connections.

For persistent issues, consult the construction plans for alternative track designs or visit the official Ravensburger GraviTrax website for additional tips and community support.

8. PRODUCT SPECIFICATIONS

- **Product Dimensions:** 4.29 x 20.51 x 13.31 inches
- **Item Weight:** 1.24 pounds
- **Item Model Number:** 26866
- **Manufacturer Recommended Age:** 8 years and up
- **Release Date:** March 1, 2020
- **Manufacturer:** Ravensburger

9. WARRANTY INFORMATION

Specific warranty details for the Ravensburger GraviTrax Obstacle Course Set are not provided within this manual. For information regarding product warranty, please refer to the official Ravensburger website or contact their customer service directly. Proof of purchase may be required for any warranty claims.

10. CUSTOMER SUPPORT

Should you require further assistance, have questions about your GraviTrax set, or need to report a missing/damaged part, please contact Ravensburger customer support. You can often find contact information and FAQs on the official Ravensburger website. For general product information, you may also visit the [Ravensburger Store on Amazon](#).