

K'NEX 15408

K'NEX Revolution Ferris Wheel Building Set - Model 15408

Instruction Manual

1. INTRODUCTION

This manual provides essential instructions for the assembly, operation, maintenance, and troubleshooting of your K'NEX Revolution Ferris Wheel Building Set, Model 15408. Please read this manual thoroughly before beginning assembly to ensure correct usage and to maximize your enjoyment of the product.

2. SAFETY INFORMATION

Please observe the following safety guidelines:

- **Small Parts Warning:** This set contains small parts which may pose a choking hazard for children under 3 years of age. Adult supervision is recommended for all users, especially those at the lower end of the recommended age range (7+).
- **Battery Safety:**
 - Requires 2 "AA" batteries (not included).
 - Do not mix old and new batteries.
 - Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries.
 - Insert batteries with correct polarity (+ and -).
 - Remove exhausted batteries from the product.
 - Remove batteries if the product is not to be used for an extended period.
 - Do not short-circuit the supply terminals.
- Keep all packaging materials away from children.
- Do not modify the product or its components.

3. PACKAGE CONTENTS

Your K'NEX Revolution Ferris Wheel Building Set includes:

- Approximately 344 K'NEX rods and connectors.
- 1 Battery-powered motor.

- Detailed instruction booklet for assembly.

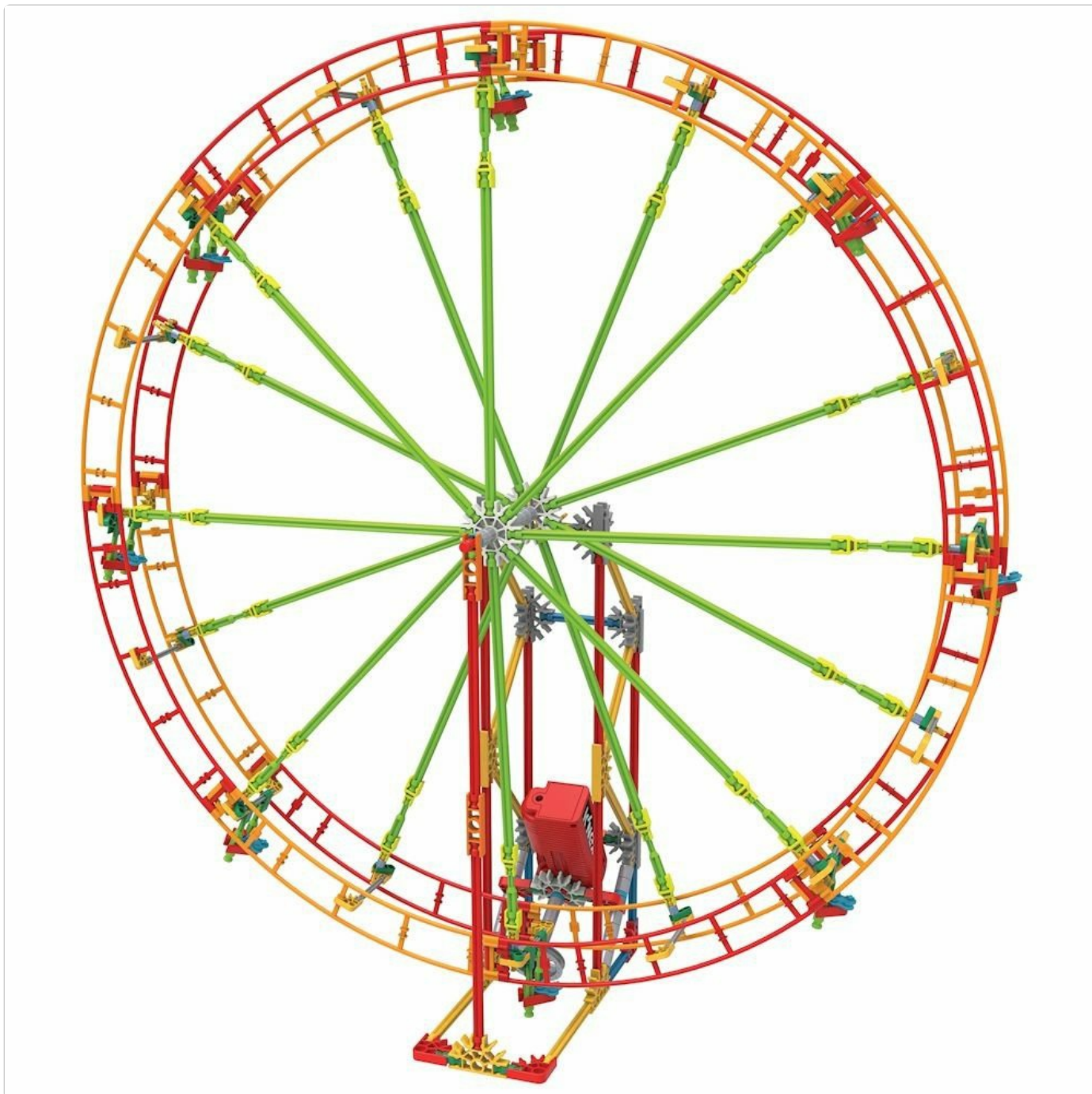


Figure 3.1: K'NEX Revolution Ferris Wheel Building Set components and assembled model.

4. SETUP AND ASSEMBLY

Follow the step-by-step instructions provided in the included instruction booklet for detailed assembly. The process involves connecting the various rods and connectors to form the Ferris wheel structure and integrating the motor.

1. **Unpack Components:** Carefully remove all K'NEX pieces and the motor from the packaging. Verify that all 344 pieces are present by comparing them to the parts list in the instruction booklet.
2. **Battery Installation:** Locate the battery compartment on the motor. Using a small Phillips head screwdriver (not included), open the compartment. Insert 2 "AA" batteries (not included) ensuring correct polarity. Close the compartment securely.
3. **Follow Instruction Booklet:** Refer to the comprehensive, illustrated instruction booklet for the precise sequence of connecting rods and connectors. Pay close attention to the color-coding and length of rods as indicated.
4. **Motor Integration:** The motor is designed to be integrated into the base or central structure of the Ferris wheel. Ensure it is

securely attached as per the instructions to allow for proper rotation.

5. **Check Connections:** After completing each major section, gently check that all connections are firm and secure to prevent the structure from becoming unstable during operation.



Figure 4.1: Example of K'NEX rods and connectors used in assembly.

5. OPERATING INSTRUCTIONS

Once fully assembled and batteries are installed, your K'NEX Revolution Ferris Wheel is ready for operation.

1. **Power On:** Locate the switch on the battery-powered motor. Move the switch to the "ON" position.
2. **Direction and Speed Control:** The motor features a dual-speed mechanism and can spin the Ferris wheel in either direction. Adjust the switch or controls on the motor (if applicable, refer to the instruction booklet for specific motor controls) to select the desired speed and rotation direction.
3. **Observation:** Observe the Ferris wheel as it rotates. Ensure smooth operation without any obstructions or excessive noise.
4. **Power Off:** To stop the Ferris wheel, move the motor switch to the "OFF" position.



Figure 5.1: The K'NEX Revolution Ferris Wheel in operation.

6. MAINTENANCE

Proper maintenance ensures the longevity and continued enjoyment of your K'NEX set.

- **Cleaning:** Wipe the K'NEX pieces and motor with a slightly damp cloth. Do not submerge the motor in water or use harsh cleaning agents.
- **Storage:** When not in use, store the disassembled or assembled Ferris wheel in a clean, dry place away from direct sunlight and extreme temperatures.

- **Battery Care:** Always remove batteries from the motor if the product will not be used for an extended period to prevent leakage and damage.
- **Inspection:** Periodically inspect all K'NEX pieces for any signs of wear or damage. Replace any broken or bent pieces to maintain structural integrity.

7. TROUBLESHOOTING

If you encounter issues with your K'NEX Revolution Ferris Wheel, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|---|--|--|
| Motor does not operate. | Batteries are dead or incorrectly installed. Motor switch is in the "OFF" position. Loose connection to the motor. | Replace batteries with new "AA" batteries, ensuring correct polarity. Move the motor switch to the "ON" position. Check all connections to the motor as per assembly instructions. |
| Ferris wheel rotation is uneven or stuck. | Assembly error or loose connections. Obstruction in the rotation path. Damaged K'NEX piece. | Review the assembly instructions and re-check all connections. Inspect the rotation path for any interfering pieces or foreign objects. Identify and replace any damaged K'NEX components. |
| Pieces do not fit together. | Incorrect pieces being used. Pieces are bent or damaged. | Refer to the instruction booklet to ensure the correct rods and connectors are being used for each step. Inspect pieces for damage; replace if necessary. |

8. SPECIFICATIONS

| | |
|---|---|
| Model Number | 15408 |
| Number of Pieces | Approximately 344 |
| Material | Plastic |
| Power Source | Battery Powered (2 "AA" batteries required, not included) |
| Approximate Dimensions (L x W x H) | 38.1 x 5.1 x 27.9 cm (packaged) |
| Item Weight | 0.66 Kilograms |
| Recommended Age | 7+ years |
| Educational Objective | Imagination Development |

9. WARRANTY INFORMATION

K'NEX products are manufactured to high-quality standards. For specific warranty details regarding your K'NEX Revolution Ferris Wheel Building Set, please refer to the warranty information included with your product packaging or visit the official K'NEX website. Keep your proof of purchase for any warranty claims.

10. CUSTOMER SUPPORT

Should you have any questions, require assistance with assembly, or need to report missing or damaged parts, please contact K'NEX customer support. Contact information can typically be found on the product packaging or on the official K'NEX website. Please have your model number (15408) ready when contacting support.



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