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**K'NEX 80216**

# K'NEX Amazin' 8 Coaster STEM Building Set Instruction Manual

## 1. INTRODUCTION

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This manual provides detailed instructions for the assembly, operation, and maintenance of your K'NEX Amazin' 8 Coaster STEM Building Set. This set allows for the construction of a functional roller coaster model, designed to engage users in principles of science, technology, engineering, and mathematics (STEM) through hands-on building.



Image 1: The K'NEX Amazin' 8 Coaster set, showing the product packaging and the fully assembled roller coaster model.

## 2. SAFETY INFORMATION

### **WARNING: CHOKING HAZARD - SMALL PARTS. Not for children under 3 years.**

Always supervise young children during assembly and play. Ensure all small parts are kept out of reach of children under 3 years of age to prevent choking hazards. Do not ingest any parts of the building set. Keep the product away from open flames or excessive heat sources.

## 3. PACKAGE CONTENTS

Your K'NEX Amazin' 8 Coaster set includes 448 K'NEX parts and pieces. These consist of various rods, connectors, a coaster car, and track sections necessary to build the Amazin' 8 Coaster. A motorized chain lift mechanism is also included.



Image 2: A close-up view of various K'NEX rods and connectors in different colors and shapes, which are included in the set.

## 4. ASSEMBLY INSTRUCTIONS

Refer to the detailed, easy-to-follow instruction booklet included in your K'NEX Amazin' 8 Coaster package for step-by-step assembly guidance. The instructions will guide you through connecting the rods and connectors to form the coaster's structure, track, and motorized lift.

Building with K'NEX helps develop fine motor skills, manual dexterity, and spatial reasoning. Take your time and ensure each connection clicks securely into place.



Image 3: A child engaged in the assembly process of the K'NEX Amazin' 8 Coaster, connecting pieces to build the structure.

## 5. OPERATING THE COASTER

Once assembled, the K'NEX Amazin' 8 Coaster features a motorized chain lift that propels the coaster car through its twists and turns. The motor requires 2 "AA" batteries (not included). Insert the batteries into the designated battery compartment on the motorized lift according to the polarity markings.

To operate, place the coaster car at the base of the chain lift and activate the motor. The chain will carry the car to the top, releasing it to travel down the track. Ensure the track is clear of obstructions for smooth operation.

**M**OTORIZED  
**M**OVEMENT



Image 4: A child observing the K'NEX Amazin' 8 Coaster in operation, with the coaster car moving along the track.

# Same Classic Click. All New Style.



**OLD**



**NEW**

Image 5: A child adjusting or interacting with the motorized lift mechanism of the K'NEX coaster, highlighting the operational component.

## 6. MAINTENANCE AND CARE

To ensure the longevity of your K'NEX Amazin' 8 Coaster, follow these care guidelines:

- **Cleaning:** Wipe parts with a damp cloth as needed. Avoid harsh chemicals or abrasive cleaners.
- **Storage:** Store all K'NEX pieces in a dry, cool place away from direct sunlight to prevent material degradation.
- **Battery Care:** Remove batteries from the motorized unit if the toy will not be used for an extended period to prevent leakage.
- **Inspection:** Periodically inspect all parts for wear or damage. Replace any broken pieces to maintain structural integrity and safe operation.

## 7. TROUBLESHOOTING

If you encounter issues with your K'NEX Amazin' 8 Coaster, consider the following:

- **Coaster Car Gets Stuck:**

- Check all track connections to ensure they are secure and properly aligned.
- Verify that the chain lift is correctly installed and tensioned.
- Ensure the motorized unit has fresh batteries and is functioning correctly.
- Inspect the coaster car wheels for any obstructions or damage.

- **Motor Not Working:**

- Confirm batteries are correctly inserted with proper polarity.
- Replace old batteries with new ones.
- Check for any loose wires or connections to the motor unit.

## 8. SPECIFICATIONS

Feature	Detail
Product Dimensions	29.82 x 17.9 x 31.62 inches
Item Weight	1.56 pounds
Item Model Number	80216
Manufacturer Recommended Age	7 - 17 years
Batteries Required	2 AA batteries (not included)
Number of Parts	448
Release Date	August 1, 2022

## 9. ABOUT K'NEX

K'NEX building sets are designed to inspire creativity and foster an understanding of STEM principles. With K'NEX, you can build a wide variety of structures, from simple models to complex, motorized creations. The unique rod and connector system allows for flexible and imaginative construction.

Your browser does not support the video tag.

Video 1: An official K'NEX brand video titled "K'NEX - Think Outside The Blocks," showcasing the versatility and creative potential of K'NEX building sets. This video demonstrates various models that can be constructed using K'NEX components.

## 10. WARRANTY AND SUPPORT

For information regarding product warranty, replacement parts, or additional support, please visit the official K'NEX website or contact K'NEX customer service. Details can typically be found on the product packaging or the manufacturer's website.