

- › [Learning Resources](#) /
- › [Learning Resources Gears! Gears! Gears! Deluxe Building Set \(Model LER9162\) - 100-Piece Instruction Manual](#)

Learning Resources LER9162

Learning Resources Gears! Gears! Gears! Deluxe Building Set (Model LER9162) - 100-Piece Instruction Manual

INTRODUCTION

Welcome to the world of mechanical exploration with the Learning Resources Gears! Gears! Gears! Deluxe Building Set. This 100-piece set is designed to engage young minds (ages 3+) in hands-on STEM learning, fostering critical thinking, problem-solving skills, and creativity through the construction of colorful, moving structures.

This manual provides essential information for assembly, operation, and care of your building set, ensuring a safe and enriching play experience.



Figure 1: Learning Resources Gears! Gears! Gears! Deluxe Building Set.

SAFETY INFORMATION

WARNING: CHOKING HAZARD - Small Parts. Not for children under 3 years.

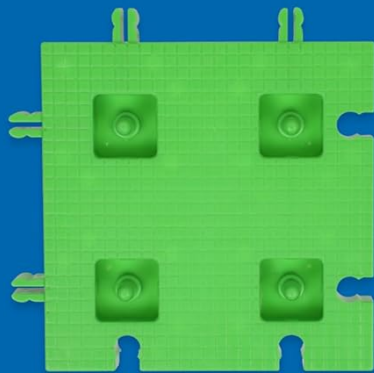
Always supervise young children during play. Ensure all pieces are securely connected to prevent detachment of small parts.

WHAT'S INCLUDED

Your Learning Resources Gears! Gears! Gears! Deluxe Building Set contains the following components:

- 46 Colorful Gears (blue, green, orange, red, purple)
- 26 Square Pillars
- 21 Six-Way Axles
- 6 Interlocking Bases
- 1 Crank Handle
- Activity Guide (refer to physical guide for detailed activities)

What's Included:



Bases (6x)



**6-Way axle
(21x)**



**Pillars
(26x)**



**Crank
(1)**



Gears in 6 colors (46x)



**100-Piece Set
With Building Guide!**

Figure 2: All components included in the 100-piece set.

SETUP AND ASSEMBLY

Follow these steps to begin building your gear creations:

1. **Connect Bases:** Start by interlocking the green bases to form a stable foundation for your structure. The bases can be connected side-by-side or at angles.
2. **Add Pillars:** Insert the square pillars into the holes on the bases. These pillars provide height and support for your gears.
3. **Attach Axles:** Place the six-way axles onto the tops of the pillars or directly into the bases. These axles serve as connection points for the gears.
4. **Position Gears:** Slide the colorful gears onto the axles. Ensure the gears mesh properly with adjacent gears for smooth rotation.
5. **Integrate Crank Handle:** Attach the crank handle to any gear that is part of your interconnected system. This handle will be used to set your creation in motion.

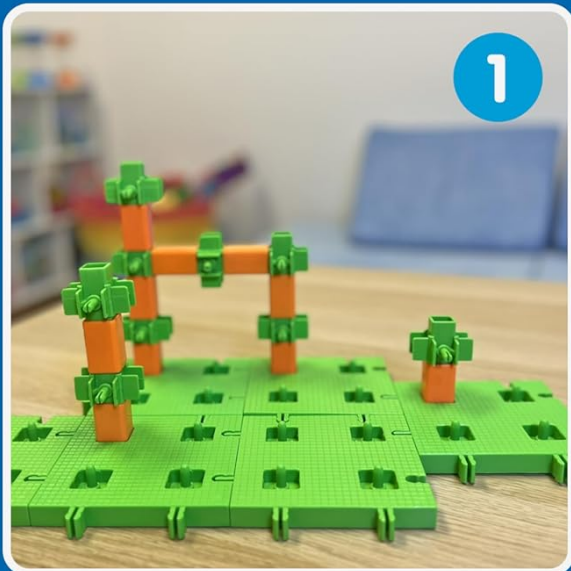


Figure 3: Step-by-step assembly guide for basic gear structures.



Design and build all kinds of **Twisting, Turning Creations!**



Figure 4: Examples of creative gear designs.

OPERATING INSTRUCTIONS

Once your gear structure is assembled, operating it is simple:

- **Turn the Crank:** Gently turn the crank handle in either direction. Observe how the motion transfers through the interconnected gears, causing them all to spin.
- **Experiment with Speed and Direction:** Notice how turning the crank faster or slower affects the speed of the other gears. Experiment with different gear sizes and arrangements to see how they influence the direction and speed of rotation.
- **Explore Mechanical Principles:** This set allows for hands-on exploration of simple machines, cause and effect, and basic mechanical engineering concepts.



Figure 5: Children engaging with the gear set, demonstrating operation.

MAINTENANCE AND CARE

To ensure the longevity of your Gears! Gears! Gears! Deluxe Building Set, follow these care instructions:

- **Cleaning:** Wipe pieces with a damp cloth and mild soap if necessary. Rinse thoroughly and air dry. Do not immerse in water for extended periods or use harsh chemicals.
- **Storage:** Store all pieces in a dry, cool place away from direct sunlight. Keep them in the original box or a designated storage container to prevent loss.
- **Inspection:** Periodically inspect all components for any signs of wear or damage. Discontinue use of any broken pieces to prevent injury.

TROUBLESHOOTING

If you encounter any issues with your gear set, refer to the following common solutions:

Problem	Possible Cause	Solution
Gears are not spinning smoothly or are jamming.	Gears are not properly meshed, or there is too much friction.	Ensure all gears are correctly aligned and their teeth interlock. Check for any foreign objects obstructing movement. Reassemble the section if necessary.
Crank handle does not turn all gears.	The gear connected to the crank is not linked to the main gear system, or there's a break in the chain of gears.	Verify that the crank-attached gear is directly or indirectly connected to all other gears you intend to move. Ensure no gaps exist in the gear train.
Pieces do not stay connected.	Pieces are not fully inserted, or there is excessive force applied.	Press pieces firmly together until they click into place. Avoid lifting structures by only one section; support the base.

SPECIFICATIONS

Feature	Detail
Product Name	Gears! Gears! Gears! Deluxe Building Set
Model Number	LER9162
Brand	Learning Resources
Number of Pieces	100
Recommended Age	36 months - 16 years
Product Dimensions	10 x 10 x 10 inches (25.4 x 25.4 x 25.4 cm)
Item Weight	2.2 pounds (1 kg)
Material	Durable Plastic

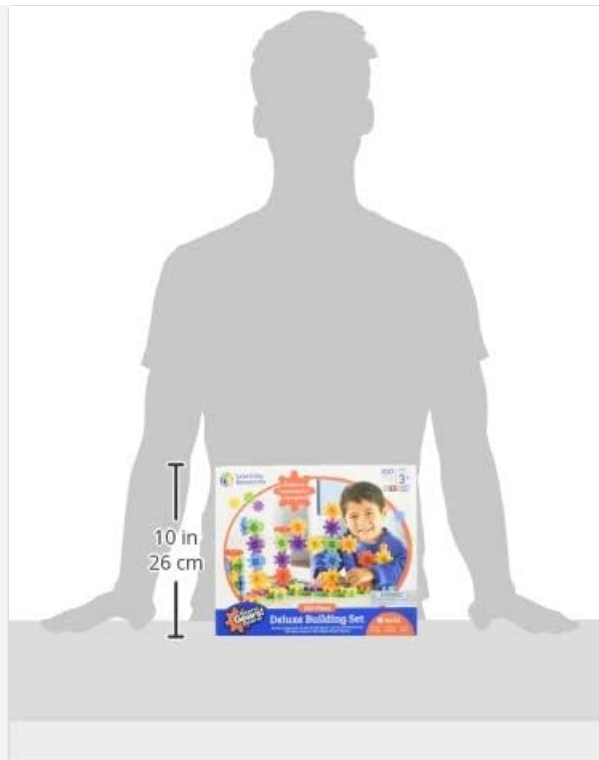


Figure 6: Product dimensions for reference.


WARRANTY AND SUPPORT

For information regarding product warranty, replacement parts, or customer support, please visit the official Learning Resources website or contact their customer service department. Contact details are typically found on the product packaging or their official website.

Learning Resources is committed to providing high-quality educational toys and support for their products.

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Related Documents - LER9162

	<p>Learning Resources LER 9199 Dizzy Fun Land Building Set Instructions</p> <p>Step-by-step instructions and guide for building the Learning Resources LER 9199 Dizzy Fun Land building set, featuring gears, amusement park rides, and creative construction. Includes information on building bumper cars, merry-go-round, Ferris wheel, roller coaster, and other models.</p>
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	<p>Learning Resources Simple Machines STEM Kit Guide</p> <p>An educational guide to Learning Resources' Simple Machines STEM kit, explaining the principles of pulleys, inclined planes, wedges, levers, and wheels and axles with assembly instructions and real-world examples.</p>
	<p>Botley 2.0 The Coding Robot: 78-Piece Activity Set Guide</p> <p>A comprehensive guide to Botley 2.0, the coding robot. Learn basic and advanced coding concepts, critical thinking, spatial concepts, sequential logic, and teamwork with this 78-piece activity set. Includes instructions for setup, programming, challenges, and troubleshooting.</p>
	<p>Botley the Coding Robot: 77-Piece Activity Set - Activity Guide (LER 2935)</p> <p>Explore the world of coding with Botley, the fun and engaging coding robot from Learning Resources. This activity guide provides step-by-step instructions, coding challenges, and troubleshooting tips for the 77-piece Botley set (LER 2935), suitable for ages 5+.</p>
	<p>MagiCoders Unicorn User Guide</p> <p>Learn how to code with MagiCoders Unicorn, an educational toy from Learning Resources. This guide covers basic controls, programming sequences, spells, troubleshooting, and battery information for the MagiCoder robot and wand.</p>
	<p>Learning Resources Counting Dino-Sorters Math Activity Set: Activity Guide</p> <p>An activity guide for the Learning Resources Counting Dino-Sorters Math Activity Set, featuring 10 dinosaur eggs and 55 dinosaur counters. Includes instructions for various math and sorting activities for preschoolers.</p>

[\[pdf\]](#) Price List

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A thumbnail image of a spreadsheet titled '2023 LR EI h2m Full Line Price List'. The spreadsheet has multiple columns, including 'Product Name', 'SKU', 'Price', 'Quantity', and 'Total'. It lists various educational products and their corresponding prices and quantities. The text is small and difficult to read in detail, but the structure is clear as a data table.

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[Learning Resources Title I Products Catalog 2013](#)

A comprehensive catalog of educational supplies and teaching materials from Learning Resources, featuring a wide range of products for classrooms and students, listed with item numbers, descriptions, and prices from 2013.

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[\[pdf\]](#) Catalog

Learning Resources Title I Products 2015 learningresources text

Title I Products p.1 Item Number Product Description 2015 Direct Catalog Pg # 2015
Retail Price ... 4 Pretend Play Tape Measure LER9155 Pretend Play Cooking Set
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