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## Learning Resources LER9188

# Learning Resources Gearbotics Robot Motorized Set Instruction Manual

Model: LER9188

## INTRODUCTION

The Learning Resources Gearbotics Robot Motorized Set provides a hands-on experience in constructing robotic models. This set includes 118 color-coded components, such as gears, cogs, and connectors, along with a motorized unit. Users can design and build robots capable of movement and sound production via a controller.

This manual provides essential information for the assembly, operation, and maintenance of your Gearbotics Robot Motorized Set. Please read these instructions carefully before use.



Image: The product packaging for the Gearbotics Robot Motorized Set, illustrating the assembled robot and its remote controller.

## PACKAGE CONTENTS

The Gearbotics Robot Motorized Set includes the following components:

- 118 color-coded pieces (gears, cogs, connectors)
- Motorized unit with sound capabilities
- Controller
- Robot head
- Grabber arms
- Wheels
- Instruction booklet for building models

**Note:** Four AA batteries are required for the motorized unit and two AA batteries for the controller, and are not included in the set.

## SETUP AND ASSEMBLY

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### 1. Battery Installation

1. Locate the battery compartment on the motorized unit and the controller.
2. Using a small screwdriver (not included), open the battery compartment cover.
3. Insert four (4) AA batteries into the motorized unit, observing the correct polarity (+/-).
4. Insert two (2) AA batteries into the controller, observing the correct polarity (+/-).
5. Replace the battery compartment covers and secure them with the screws.

**Important:** Always use new batteries of the same type. Do not mix old and new batteries, or different types of batteries. Remove batteries if the product will not be used for an extended period.

### 2. Initial Assembly

The Gearbotics set is designed for creative construction. Refer to the included instruction booklet for detailed steps on building specific robot models. The general assembly process involves:

- **Connecting Base Components:** Begin by connecting the main structural pieces using the various connectors.
- **Integrating Gears:** Attach gears and cogs to create rotational movement. Ensure gears mesh properly for smooth operation.
- **Attaching the Motorized Unit:** Securely connect the motorized unit to the robot's structure, ensuring its output shaft aligns with the gears intended for movement.
- **Adding Accessories:** Attach the robot head, grabber arms, wheels, and other decorative elements as desired or as instructed by the model guide.



Image: A fully assembled Gearbotics robot, showcasing its transparent gears, cogs, and structural components.

## OPERATING INSTRUCTIONS

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Once your robot is assembled and batteries are installed, you can begin operation using the controller.

1. Ensure the motorized unit is securely connected to the robot and its power source (batteries).
2. Use the directional controls on the controller to make the robot move forward or backward.
3. Activate the sound function via the designated button on the controller to hear the robot's sounds.
4. Experiment with different gear configurations and robot designs to observe varied movements and functions.



Image: A child interacting with the Gearbotics robot, using the remote controller to activate its functions.

## MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Gearbotics set.

- **Cleaning:** Wipe components with a dry or slightly damp cloth. Do not immerse the motorized unit or controller in water. Avoid harsh chemicals.
- **Storage:** Store all pieces in a clean, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** Remove batteries from the motorized unit and controller if the set will not be used for an extended period to prevent leakage.
- **Component Inspection:** Periodically inspect gears and connectors for any signs of wear or damage. Replace any broken or worn parts to maintain functionality.

## TROUBLESHOOTING

If you encounter issues with your Gearbotics Robot Motorized Set, refer to the following common solutions:

- **Robot Does Not Move or Motor is Silent:**
  - Check if batteries are correctly installed in both the motorized unit and the controller, observing polarity.
  - Ensure batteries are fresh and fully charged. Replace if necessary.
  - Verify that all connections between the motorized unit and the robot's gears are secure and properly aligned.
- **Gears Do Not Turn Smoothly or Jam:**
  - Inspect for any foreign objects or debris obstructing the gears.
  - Ensure all gears are correctly meshed and not forced into position.
  - Check for any damaged or worn gear teeth that might prevent smooth rotation.
- **Controller Not Responding:**
  - Confirm batteries in the controller are fresh and correctly inserted.
  - Ensure there are no obstructions between the controller and the robot's receiver.

If problems persist after attempting these solutions, please contact Learning Resources customer support.

## SPECIFICATIONS

Feature	Detail
Product Dimensions	15 x 5 x 14 inches
Item Weight	4.06 pounds
Model Number	LER9188
ASIN	B00004WGJS
Manufacturer Recommended Age	6 years and up

<b>Batteries Required</b>	4 AA batteries (not included) for motorized unit, 2 AA batteries (not included) for controller.
<b>Release Date</b>	January 1, 2007
<b>Manufacturer</b>	Learning Resources

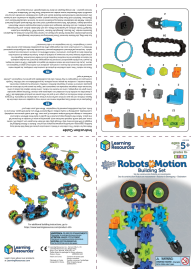
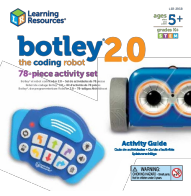


## WARRANTY AND SUPPORT

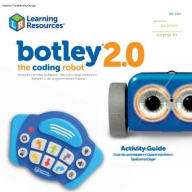
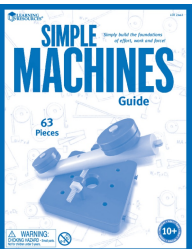
For warranty information, replacement parts, or further assistance, please contact Learning Resources directly. Their official website or customer service contact details can typically be found on the product packaging or by searching online for "Learning Resources customer support".

Please have your product model number (LER9188) and purchase information available when contacting support.

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### Related Documents - LER9188

	<p><a href="#">Learning Resources Robots in Motion Building Set - STEM Toy Instructions</a></p> <p>Instruction guide for the Learning Resources Robots in Motion Building Set, a STEM toy that teaches kids about gears, pulleys, and engineering through building robots. Includes assembly steps and product information.</p>
	<p><a href="#">Botley 2.0 The Coding Robot: 78-Piece Activity Set Guide</a></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><a href="#">Botley the Coding Robot: 77-Piece Activity Set - Activity Guide (LER 2935)</a></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><a href="#">Learning Resources LER 9199 Dizzy Fun Land Building Set Instructions</a></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>

 The cover of the 'botley 2.0 the coding robot Activity Guide' by Learning Resources. It features a blue and white robot with large eyes and a small antenna. The text 'botley 2.0' is in large, bold, blue letters, with 'the coding robot' in smaller text below it. 'Activity Guide' is written at the bottom.	<p><a href="#">Botley 2.0 The Coding Robot Activity Guide</a></p> <p>Learn to code with Botley 2.0, the interactive coding robot. This guide provides instructions, activities, and troubleshooting for programming Botley using its remote programmer.</p>
 The cover of the 'SIMPLE MACHINES Guide' by Learning Resources. It features a blue and white mechanical device with gears and pulleys. The text 'SIMPLE MACHINES' is in large, bold, blue letters, with 'Guide' in smaller text below it. '63 Pieces' is written on the left side. A 'WARNING' label and an '10+' age recommendation are at the bottom.	<p><a href="#">Learning Resources Simple Machines STEM Kit Guide</a></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>