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## **BRIO Builder 34591 Motor Set Instruction Manual**

Model: 34591

**INTRODUCTION**

The BRIO Builder 34591 Motor Set is a 121-piece construction toy designed to engage young engineers in creative building and problem-solving. This set combines wood and plastic components with a functional battery-powered motor, allowing for dynamic creations. It promotes open-ended play, fine motor skills, hand-eye coordination, and logical thinking. This manual provides essential information for the safe and effective use of your BRIO Builder Motor Set.



Image 1: The BRIO Builder Motor Set, showing the product packaging and a collection of its various components.

## PACKAGE CONTENTS

The BRIO Builder 34591 Motor Set includes the following 121 components:

- 1x Battery-powered Motor Unit
- 2x Easy-to-use Tools (wrench and pliers)
- 1x Inspiration Leaflet
- 117x Construction Pieces (various wood and plastic parts, connectors, wheels, nuts, bolts, etc.)



Image 2: An organized display of all individual components included in the set, detailing quantities of each part.

## SAFETY INFORMATION

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Please read and understand all safety instructions before using the BRIO Builder Motor Set. Adult supervision is recommended, especially for younger children.

- **Choking Hazard:** This set contains small parts and is not suitable for children under 3 years of age.
- **Battery Safety:**
  - Always use the correct size and type of batteries (AAA).
  - Do not mix old and new batteries, or different types of batteries.
  - Insert batteries with correct polarity (+ and -).
  - Remove exhausted batteries promptly.
  - Do not short-circuit battery terminals.
  - Remove batteries if the product is not used for an extended period.
  - Keep batteries out of reach of small children.
- **General Use:** Ensure all connections are secure during play to prevent parts from detaching unexpectedly.

## SETUP: BATTERY INSTALLATION

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The motor unit requires 2 AAA batteries (not included) for operation. Follow these steps to install the batteries:

1. Locate the battery compartment on the motor unit. This is typically secured with a small screw.
2. Using a small screwdriver (not included), carefully loosen the screw and remove the battery compartment cover.
3. Insert 2 AAA batteries, ensuring the correct polarity (+ and -) as indicated inside the compartment.
4. Replace the battery compartment cover and tighten the screw to secure it.

Once batteries are installed, the motor unit is ready for use in your constructions.



Image 3: The motor unit, illustrating how a gear connects to its mechanism, relevant for battery installation and initial setup.

## OPERATING INSTRUCTIONS

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### Building Your Creations

The BRIO Builder Motor Set encourages imaginative construction. Use the various wood and plastic pieces, along with the provided tools (wrench and pliers), to assemble different structures and vehicles. The inspiration leaflet offers initial ideas, but the design possibilities are extensive.

- Connect pieces using nuts, bolts, and other fasteners.
- Utilize the tools to tighten or loosen connections as needed.
- Experiment with different combinations to create unique designs.

### Using the Motor Unit

The battery-powered motor unit adds movement to your creations. It features a simple control mechanism:

- **Forward Mode:** Press the designated button to make the motor rotate in one direction.
- **Reverse Mode:** Press another designated button to make the motor rotate in the opposite direction.
- **Stop Mode:** A central button or position will halt the motor's movement.

Integrate the motor into your builds to create moving parts, such as rotating propellers, turning wheels, or lifting mechanisms. Ensure that any connected parts are securely attached to the motor's axle or gears.



Image 4: An example of a helicopter built with the BRIO Builder Motor Set, demonstrating the integration of various components.



Image 5: An example of a motorcycle built with the BRIO Builder Motor Set, showcasing how wheels and the motor can be combined.

## MAINTENANCE

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Proper care will ensure the longevity of your BRIO Builder Motor Set.

- **Cleaning:** Wipe plastic and wood components with a damp cloth. Do not immerse the motor unit in water. Avoid harsh cleaning agents.
- **Storage:** Store all pieces in a dry place, away from direct sunlight and extreme temperatures. Keep small parts organized to prevent loss.
- **Battery Care:** Remove batteries from the motor unit if it will not be used for an extended period to prevent leakage.

## TROUBLESHOOTING

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If you encounter issues with your BRIO Builder Motor Set, refer to the following common solutions:

Problem	Possible Cause	Solution
Motor does not operate.	Batteries are dead or incorrectly inserted. Battery compartment cover is not secured. Motor is jammed by connected parts.	Check and replace batteries, ensuring correct polarity. Ensure the battery compartment cover is fully closed and screwed in. Remove any obstructions or re-assemble parts to allow free movement.
Parts do not stay connected.	Nuts and bolts are not tightened sufficiently. Incorrect parts used for connection.	Use the provided tools to tighten all connections firmly. Refer to the inspiration leaflet for correct part usage.

## SPECIFICATIONS

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- Model Number:** 34591
- Product Dimensions:** 12.2 x 7.87 x 3.54 inches
- Item Weight:** 1.63 pounds
- Manufacturer Recommended Age:** 36 months - 12 years
- Batteries Required:** 2 AAA batteries (not included)
- Materials:** Wood and Plastic
- Manufacturer:** BRIO
- Release Date:** February 10, 2020

## WARRANTY AND SUPPORT

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BRIO products are manufactured to high-quality standards. For information regarding warranty, product support, or replacement parts, please visit the official BRIO website or contact their customer service department. Contact details can typically be found on the product packaging or the official BRIO website.

Official BRIO Website: [www.brio.net](http://www.brio.net)