

HEXBUG 406-7607

HEXBUG VEX Robotics Scissor Lift Instruction Manual

Model: 406-7607

1. INTRODUCTION

Thank you for choosing the HEXBUG VEX Robotics Scissor Lift construction kit. This manual provides essential information for the assembly, operation, and maintenance of your new VEX Robotics Scissor Lift. Designed to introduce STEM (Science, Technology, Engineering, and Mathematics) concepts, this kit allows you to build a functional scissor lift mechanism.

The VEX Scissor Lift features a mechanism that operates like a real-world scissor lift, allowing you to raise and lower the top platform. This kit includes over 85 pieces and a mini-figure worker, providing an engaging and educational building experience.

2. SAFETY INFORMATION

- **Recommended Age:** This product is suitable for ages 8 and up.
- **Small Parts:** The kit contains small parts which may pose a choking hazard for children under 3 years of age. Keep all components out of reach of young children.
- **Adult Supervision:** Adult supervision is recommended during assembly and play, especially for younger users.
- **Proper Use:** Use the product only as intended. Do not modify the design or force parts together, as this may cause damage or injury.

3. PACKAGE CONTENTS

Your HEXBUG VEX Robotics Scissor Lift kit includes:

- Over 85 construction pieces
- 1 Mini-figure worker

- Step-by-step instruction manual (may not be in Japanese)
- STEM Experiment Guide and Parent Sheet



Image: The HEXBUG VEX Robotics Scissor Lift construction kit box, showing the assembled model and included mini-figure.

4. SETUP AND ASSEMBLY

Assembly of the HEXBUG VEX Robotics Scissor Lift is a hands-on process designed to teach STEM principles. Please follow the included step-by-step instruction manual carefully for detailed assembly guidance.

4.1. Assembly Steps

1. **Unpack Components:** Carefully remove all pieces from the packaging and verify against the parts list in your instruction manual.
2. **Follow Instructions:** Refer to the dedicated step-by-step instruction manual provided in your kit. Each step is illustrated to guide you through the construction process.
3. **Connect Parts:** Ensure all interlocking pieces are securely connected. Do not force parts if they do not fit; re-check the instructions.
4. **Build the Scissor Mechanism:** Pay close attention to the assembly of the scissor lift mechanism to ensure smooth operation.
5. **Attach Wheels:** Securely attach the rolling wheels to the base of the lift.
6. **Assemble Mini-figure:** Put together the mini-figure worker.

The instruction manual also includes a STEM Experiment Guide and Parent Sheet to enhance the educational experience.

5. OPERATING INSTRUCTIONS

The HEXBUG VEX Robotics Scissor Lift is manually operated, designed for interactive play and demonstration of mechanical principles.

5.1. Raising and Lowering the Platform

- To raise the platform, gently push the top platform upwards. The scissor mechanism will extend, lifting the platform.
- To lower the platform, gently push the top platform downwards. The scissor mechanism will retract, lowering the platform.
- The rolling wheels allow you to move the scissor lift across smooth surfaces manually.



Image: The HEXBUG VEX Robotics Scissor Lift with its platform in a raised position, demonstrating its extended height.



Image: The HEXBUG VEX Robotics Scissor Lift with its platform in a lowered position, showing its compact state.

While the product specifications mention AG13/LR44 batteries, the main scissor lift mechanism operates manually and does not require power. These batteries may be for a separate, non-essential component if present.

6. MAINTENANCE

To ensure the longevity and proper function of your HEXBUG VEX Robotics Scissor Lift, follow these simple maintenance guidelines:

- **Cleaning:** Wipe the model with a soft, dry cloth to remove dust and dirt. Avoid using harsh chemicals or abrasive cleaners.
- **Storage:** Store the assembled model or its components in a cool, dry place away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically check for any loose or damaged parts. Re-secure any loose connections.

7. TROUBLESHOOTING

If you encounter any issues with your HEXBUG VEX Robotics Scissor Lift, consider the following troubleshooting steps:

- **Difficulty in Assembly:** If you are having trouble assembling a specific section, double-check the step-by-step instruction manual. Ensure you are using the correct parts for each step.
- **Scissor Mechanism Not Moving Smoothly:** Verify that all pivot points and connections in the scissor mechanism are correctly assembled and not obstructed. Ensure no parts are bent or misaligned.
- **Missing Parts:** If you believe parts are missing from your kit, please refer to the parts list in your instruction manual and contact customer support.

8. SPECIFICATIONS

Feature	Detail
Brand	HEXBUG
Model Name	robotics scissor lift
Model Number	406-7607
Material	Plastic
Color	Multi-color
Educational Objective	STEM
Number of Pieces	85+
Theme	Robot / Construction
Product Dimensions (LxWxH)	15.2 x 5.1 x 19.3 cm
Product Weight	0.24 kg
Minimum Recommended Age	8 years (96 months)

Operation Mode	Manual
Power Source	Manual
Battery Type (if applicable)	AG13/LR44 (for non-essential features)
UPC	807648076073

9. WARRANTY AND SUPPORT

For warranty information, product support, or to inquire about replacement parts, please refer to the contact information provided on the product packaging or visit the official HEXBUG website. Keep your proof of purchase for any warranty claims.

Online Resources: For additional support and educational content, you may visit the [HEXBUG Store on Amazon](#) or the manufacturer's official website.

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