

## VERTOY C51035W

# VERTOY Dinosaur Building Blocks STEM Kit C51035W User Manual

Model: C51035W

## 1. INTRODUCTION

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This manual provides instructions for assembling, operating, and maintaining your VERTOY Dinosaur Building Blocks STEM Kit (Model C51035W). This kit allows you to construct interactive dinosaur and crocodile models that respond to gesture and sound controls. Please read this manual thoroughly before beginning assembly or operation.

## 2. SAFETY INFORMATION

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- **Small Parts Warning:** This kit contains small parts and is not suitable for children under 3 years of age due to choking hazards.
- **Adult Supervision:** Adult supervision is recommended during assembly and play, especially for younger children.
- **Battery Safety:** If the model requires batteries (not included), ensure correct polarity and do not mix old and new batteries or different types of batteries. Remove batteries if the toy will not be used for an extended period.
- **Material Safety:** The building blocks are made from Acrylonitrile Butadiene Styrene (ABS) plastic. Do not ingest parts.
- **Proper Use:** Use the product only as intended. Do not modify the product, as this may cause damage or injury.

## 3. PACKAGE CONTENTS

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The VERTOY Dinosaur Building Blocks STEM Kit includes approximately 450 pieces necessary for constructing the dinosaur and crocodile models. Please verify all components are present before starting assembly.

- Building Blocks (approx. 450 pieces)
- Intelligent Sensor Drive Module

- Instruction Manual
- Disassembling Tool



Image: Two children assembling the VERTOY Dinosaur Building Blocks kit. One child is holding a green block, and the other is looking at the instruction manual. A disassembling tool is visible in the bottom right corner.

## 4. ASSEMBLY INSTRUCTIONS

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Follow the step-by-step instructions provided in the included manual to assemble your chosen model (dinosaur or crocodile). Pay close attention to the placement of the intelligent sensor drive module.

### 4.1 General Assembly Tips

- **Organize Pieces:** Sort blocks by color or type to simplify the building process.
- **Follow Manual:** Refer to the detailed illustrations in the physical instruction manual for precise block placement.
- **Secure Connections:** Ensure all blocks are firmly connected to prevent the model from falling apart during play.
- **Disassembling Tool:** Use the provided disassembling tool to separate tightly connected blocks if needed.

## 4.2 Integrating the Intelligent Sensor System

The intelligent sensor drive module is crucial for the model's interactive functions. Integrate this module as directed in the assembly manual. This module incorporates advanced infrared and sound sensing capabilities.

# Advanced Intelligent Sensor System



Infrared/Sound  
Sensing



Image: A diagram showing the intelligent sensor system module and its integration into the dinosaur and crocodile models. Dimensions for both models are also displayed.

## 4.3 Model Features Overview

Once assembled, your model will exhibit several dynamic features:

- **Opening and Closing Mouth:** The model's mouth can open and close.
- **Flexible Claws:** The claws are designed with flexibility.
- **Walkable Movement:** The model is capable of walking.
- **Tail Bobbing:** The tail can move up and down.

# Give Life to Blocks



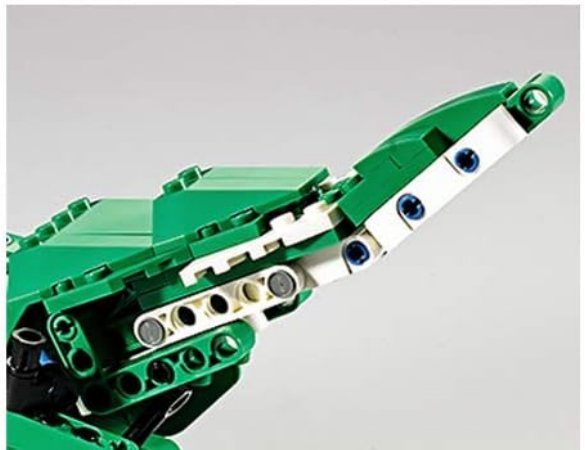
**Opening-and-Closing Mouth**



**Flexible Claws**



**Walkable**



**Tail Bobbing Up and Down**

Image: Four close-up views of the assembled VERTOY dinosaur model, demonstrating its opening-and-closing mouth, flexible claws, walkable legs, and tail bobbing up and down.

## 5. OPERATING INSTRUCTIONS

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The VERTOY Dinosaur Building Blocks models are controlled using gesture and sound sensing technology.

### 5.1 Gesture Sensing

To activate gesture control, position your hand or an object in front of the model's infrared sensor. Specific gestures may trigger different movements (e.g., moving forward, backward, or turning). Refer to the physical manual for detailed gesture commands.

### 5.2 Sound Sensing

The model also responds to sound. Clapping or making specific sounds near the model can activate its movements or other functions. Experiment with different sound patterns to discover all interactive capabilities.



**Gesture  
Sensing**



**Sound  
Sensing**

Image: Two scenes depicting children interacting with the VERTOY building block toys. In the top scene, children use gesture sensing with a dinosaur. In the bottom scene, a child and adult use sound sensing with a crocodile.

## 6. MAINTENANCE

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### 6.1 Cleaning

- To clean the building blocks, wipe them with a soft, damp cloth.
- Do not submerge the intelligent sensor drive module or any electronic components in water.
- Avoid using harsh chemicals or abrasive cleaners.

### 6.2 Storage

- Store the assembled model or disassembled blocks in a clean, dry place away from direct sunlight and extreme temperatures.
- Keep small parts in a sealed container or bag to prevent loss.

## 7. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Model does not move or respond.	<ul style="list-style-type: none"> <li>Batteries are low or incorrectly installed.</li> <li>Sensor module is not properly connected.</li> <li>Obstruction blocking sensors.</li> </ul>	<ul style="list-style-type: none"> <li>Replace batteries or ensure correct polarity.</li> <li>Check all connections to the sensor drive module.</li> <li>Ensure sensors are clear of debris and obstructions.</li> </ul>
Parts are missing during assembly.	<ul style="list-style-type: none"> <li>Pieces may be overlooked or misplaced.</li> <li>Manufacturing error (rare).</li> </ul>	<ul style="list-style-type: none"> <li>Carefully re-check all packaging and sorting areas.</li> <li>Contact VERTOY customer support for assistance.</li> </ul>
Model moves slowly or inconsistently.	<ul style="list-style-type: none"> <li>Low battery power.</li> <li>Friction in moving parts due to incorrect assembly.</li> </ul>	<ul style="list-style-type: none"> <li>Replace batteries.</li> <li>Review assembly steps for any tight connections or misaligned parts.</li> </ul>

## 8. SPECIFICATIONS

Feature	Detail
Brand	VERTOY
Model Number	C51035W
Material	Acrylonitrile Butadiene Styrene (ABS), Plastic
Number of Pieces	450
Educational Objective	STEM
Special Features	Non-Toxic, Sound Changing (Sound Sensing)
Item Dimensions	Packaging: 35 x 6 x 24 cm (L x W x H). Assembled Dinosaur: approx. 11.5 x 4.7 x 7.5 inches. Assembled Crocodile: approx. 15 x 6.9 x 2.9 inches.
Minimum Age (Manufacturer)	8 years (96 months)
Assembly Required	Yes

## 9. WARRANTY AND SUPPORT

For warranty information, missing parts, or technical support, please refer to the contact information provided

in your product packaging or visit the official VERTOY website. Keep your purchase receipt as proof of purchase.