

VATOS JW-661-302

VATOS STEM Car Toys Instruction Manual

Model: JW-661-302

1. INTRODUCTION

Thank you for choosing the VATOS 552 Piece Creative Construction Engineering Learning Cars Set. This manual provides essential information for the safe assembly, operation, and maintenance of your new toy set. Please read these instructions carefully before use and retain them for future reference.

2. SAFETY INFORMATION

- **Age Recommendation:** Suitable for children aged 9 months and up. Adult supervision is recommended for younger children during assembly and play.
- **Small Parts Warning:** This set contains small parts which may pose a choking hazard for children under 3 years old. Keep all small components out of reach of infants.
- **Material Safety:** All components are made from non-toxic, lead-free, BPA-free, and phthalate-free materials.
- **Battery Safety (for electric drill, if applicable):** The electric drill requires batteries (not included). Ensure batteries are inserted with correct polarity. Do not mix old and new batteries, or different types of batteries. Remove batteries if the toy is not used for extended periods.
- **Cleaning:** Components are washable to maintain hygiene. Refer to the Maintenance section for detailed cleaning instructions.



**YOUR KID'S SAFETY IS PARAMOUNT PRIORITY.
NO SHARP DESIGNS OR POINTY CORNERS.**



Figure 1: Product safety features and washability.

3. PACKAGE CONTENTS

The VATOS STEM Car Toys set includes 552 pieces, allowing for the construction of various models. Key components include:

- Assorted colorful building blocks (red, yellow, green, blue)
- Wheels and axles
- Screws and nuts
- 1 x Electric Drill (batteries not included)
- 1 x Hand Screwdriver
- 1 x Wrench
- Instruction booklet with various model designs

4. ASSEMBLY INSTRUCTIONS

This set encourages creative building. The included instruction booklet provides guidance for constructing several models. Below are general steps and tips for assembly:

4.1. Understanding the Tools

- **Electric Drill:** Requires batteries (not included). Attach the appropriate bit for screws. Press the top part of the handle to unscrew, and the bottom part to screw in.
- **Hand Screwdriver:** Used for manual tightening or loosening of screws.
- **Wrench:** Used to hold nuts in place while tightening screws, or to tighten nuts directly.



Figure 2: Overview of assembly tools.

4.2. Basic Assembly Steps

1. **Select Components:** Choose the desired blocks, wheels, screws, and nuts for your model.
2. **Align Parts:** Place two or more blocks together, aligning the holes where they will be joined.
3. **Insert Screw:** Push a screw through the aligned holes.
4. **Attach Nut:** Place a nut on the other side of the screw.
5. **Tighten:** Use the electric drill, hand screwdriver, or wrench to tighten the screw and nut until the parts are securely fastened. Ensure not to overtighten.
6. **Add Wheels:** For vehicles, attach wheels to axles and then secure the axles to the main body using blocks and screws.

Refer to the included instruction booklet for specific model designs and step-by-step visual guides.

5. OPERATING INSTRUCTIONS

Once assembled, the VATOS STEM Car Toys are ready for imaginative play. The moving parts, such as wheels and rotating elements, function manually. No complex electronic operations are required beyond the use of the electric drill for assembly.

- Encourage children to explore different configurations and create their own designs.
- The toys are designed to promote teamwork, imagination, creativity, hand-eye coordination, logical thinking, and problem-solving skills.



Figure 3: Children engaging with the STEM building set, fostering various developmental skills.

6. MAINTENANCE

- **Cleaning:** All plastic components can be washed with mild soap and water. Rinse thoroughly and air dry completely before storing or reassembling.
- **Storage:** Store all pieces in the provided container or a similar storage solution to prevent loss and keep them organized.
- **Inspection:** Periodically inspect all parts for wear and tear. Discard any broken or damaged pieces to ensure safety.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Parts do not fit together easily.	Incorrect alignment or wrong parts selected.	Ensure holes are perfectly aligned. Verify that the correct pieces are being used according to the instruction booklet.
Electric drill is not working.	No batteries, dead batteries, or incorrect battery insertion.	Insert 2 x AA batteries (not included) with correct polarity. Replace old batteries with new ones.
Assembled model is unstable or falls apart.	Screws are not tightened sufficiently.	Ensure all screws and nuts are securely tightened using the provided tools.

8. SPECIFICATIONS

- **Product Dimensions:** 11 x 2 x 4 inches
- **Item Weight:** 2.79 pounds
- **Model Number:** JW-661-302
- **Manufacturer Recommended Age:** 9 months and up
- **Material:** Non-toxic, lead-free, BPA-free, phthalate-free plastic
- **Number of Pieces:** 552

9. WARRANTY AND SUPPORT

For any questions, concerns, or support regarding your VATOS STEM Car Toys, please contact VATOS customer service. Refer to the product packaging or the VATOS official website for contact details.

Manufacturer: VATOS

Please retain your purchase receipt for warranty claims.