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VATOS 8016

VATOS STEM Technic RC Building Toy - 3-in-1 Tracked Racer, Robot, Stunt Tank (Model 8016) User Manual

Brand: VATOS

1. INTRODUCTION

Thank you for choosing the VATOS STEM Technic RC Building Toy, Model 8016. This innovative 3-in-1 construction set allows you to build and control three distinct remote-controlled models: a Tracked Racer, a Tumbler Robot, and a Stunt Tank. Designed to foster creativity and develop practical skills, this manual provides essential information for assembly, operation, and maintenance to ensure a safe and enjoyable experience.



Image 1.1: Overview of the VATOS STEM Technic RC Building Toy, including the packaging, the three convertible models, and the building components.

2. PRODUCT FEATURES

- **3-in-1 Convertible Design:** Construct an RC Tracked Racer, an RC Tumbler Robot, or an RC Stunt Tank from the same set of 392 building pieces.
- **Dynamic Remote Control Stunts:** Perform forward, backward, left, right movements, and impressive 360-degree rotations. The tracked design enables driving on various indoor and outdoor terrains.
- **Enhanced Power System:** Equipped with two high-torque precision motors for faster and more flexible movement. Includes a 7.4V/400mAh rechargeable battery, providing up to 25 minutes of playtime after approximately 2 hours of USB charging.
- **STEM Educational Benefits:** This building toy promotes imagination, creativity, practical skills, hand-eye coordination, and concentration, aligning with STEM learning principles.
- **2.4GHz Remote Control:** The 2.4GHz frequency ensures non-interference play, allowing multiple models to operate simultaneously.

Super Cool Stunt with Remote Control



All Modes can Forward/Backward/
Left/Right/Rotate **360°**

Image 2.1: Demonstration of the toy's 360-degree rotation and stunt capabilities across its different modes.

3. PACKAGE CONTENTS

Please verify that all components are present before beginning assembly:

- 392 x Building Blocks (various shapes and sizes)
- 1 x Remote Control
- 1 x Rechargeable Battery (7.4V/400mAh)
- 1 x USB Charging Cable
- 2 x High-Torque Motors
- 1 x Instruction Manual (this document)
- 1 x Sticker Sheet

4. SAFETY INFORMATION

- **Small Parts Warning:** This product contains small parts and is not suitable for children under 3 years old due to choking hazards.
- **Adult Supervision:** Adult supervision is recommended during assembly and play, especially for younger children.

- **Battery Safety:**

- Do not mix old and new batteries, or different types of batteries.
- Only use the provided USB charging cable and rechargeable battery.
- Do not attempt to charge non-rechargeable batteries.
- Remove batteries from the toy and remote control when not in use for extended periods.
- Dispose of batteries responsibly according to local regulations.

- **Operating Environment:** Avoid operating the toy near water, heat sources, or in excessively dusty conditions.

5. ASSEMBLY INSTRUCTIONS

The VATOS STEM Technic RC Building Toy offers three different models to build. Detailed, step-by-step pictorial instructions are included in the separate assembly guide provided in the package. Please follow these instructions carefully for each model you wish to construct.

1. **Preparation:** Unpack all components and organize the building blocks by type or color to facilitate assembly.
2. **Model Selection:** Choose which of the three models (Tracked Racer, Tumbler Robot, or Stunt Tank) you wish to build first.
3. **Follow Guide:** Refer to the dedicated assembly instruction booklet for your chosen model. Each step is illustrated to guide you through the process.
4. **Motor and Battery Integration:** Ensure the motors and battery compartment are correctly integrated into the structure as indicated in the assembly guide.
5. **Verification:** After assembly, double-check all connections and ensure parts are securely fastened.

STEM

Playing While Learning



Image 5.1: Illustrating the educational process of building the toy, emphasizing imagination and practical skills.

6. SETUP

6.1 Battery Installation and Charging

1. **Model Battery:** Locate the battery compartment on your assembled model. Insert the 7.4V/400mAh rechargeable battery, ensuring correct polarity. Close the compartment securely.
2. **Charging:** Connect the USB charging cable to the model's charging port and to a standard USB power source (e.g., computer, USB wall adapter). The charging indicator light will show the charging status. A full charge takes approximately 2 hours.
3. **Remote Control Batteries:** Open the battery compartment on the remote control. Insert 2 x 'AA' 1.5V batteries (not included), observing correct polarity. Close the compartment.

6.2 Remote Control Pairing

The remote control and model are typically pre-paired. If pairing is lost or you are using multiple models, follow these steps:

1. Ensure both the model and the remote control have fresh or fully charged batteries.

2. Turn on the model using its power switch.
3. Turn on the remote control. The indicator light on the remote will flash.
4. Wait a few seconds for the remote control and model to connect. The remote's indicator light will become solid once paired.
5. If pairing fails, turn both devices off and repeat the process.

7. OPERATING INSTRUCTIONS

Once your model is assembled, batteries are installed, and the remote is paired, you are ready to operate your VATOS RC Building Toy.

7.1 Basic Controls

- **Forward:** Push the left joystick forward.
- **Backward:** Pull the left joystick backward.
- **Turn Left:** Push the right joystick left.
- **Turn Right:** Push the right joystick right.

7.2 Stunt Maneuvers

- **360-Degree Rotation:** Push one joystick forward and the other backward simultaneously to make the model spin in place. Experiment with different combinations for varied spin directions.
- **All-Terrain Driving:** The tracked design allows the model to traverse various surfaces, including carpets, dirt, and uneven ground. Adjust speed and direction as needed for optimal performance on different terrains.



Image 7.1: The RC toy demonstrating its ability to drive on various terrains, from indoor surfaces to outdoor rocky paths.

8. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to wipe down the building blocks and electronic components. Avoid using water or harsh cleaning agents.
- **Battery Care:** Always fully charge the rechargeable battery before storage. If storing for an extended period, remove the battery from the model and remote control.
- **Storage:** Store the toy and its components in a cool, dry place away from direct sunlight and extreme temperatures. Keep the original packaging for organized storage.
- **Inspection:** Periodically inspect the tracks, gears, and connections for any signs of wear or damage. Replace any broken parts if necessary.

9. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|----------------------|--|---|
| Model does not move. | Battery low or uncharged. Not powered on. Remote not paired. | Charge model battery. Turn on model and remote. Re-pair remote control. |

| Problem | Possible Cause | Solution |
|------------------------------------|--|--|
| Poor performance or slow movement. | Low battery charge. Obstruction in tracks/gears. | Recharge model battery. Check and clear any obstructions. |
| Remote control not responding. | Remote control batteries low or incorrectly installed. Not paired. | Replace remote control batteries. Ensure correct polarity. Re-pair remote control. |
| Interference during play. | Other 2.4GHz devices nearby. | Move to an area with less interference. Ensure only one remote is controlling one model. |

10. SPECIFICATIONS

- **Model Number:** 8016
- **Number of Pieces:** 392
- **Main Material:** Metal, Rubber
- **Battery:** 7.4V/400mAh Rechargeable (included)
- **Remote Control Batteries:** 2 x 'AA' 1.5V (not included)
- **Remote Control Frequency:** 2.4GHz
- **Charging Time:** Approximately 2 hours
- **Play Time:** Up to 25 minutes
- **Package Dimensions:** 31.3 x 28.4 x 6.8 cm
- **Weight:** 820 grams
- **Recommended Age:** 8+ years



Image 10.1: Detailed view of the toy's internal components and construction quality.

11. WARRANTY AND SUPPORT

For any questions, concerns, or support regarding your VATOS STEM Technic RC Building Toy, please contact VATOS customer service. While specific warranty details are not provided in this manual, VATOS is committed to providing excellent customer support for its products.

Please retain your purchase receipt as proof of purchase for any warranty claims or support inquiries.