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Think Gizmos TG633

Think Gizmos TG633 Ingenious Machines Robotic Kit User Manual

Model: TG633

Brand: Think Gizmos

Introduction

This manual provides comprehensive instructions for assembling, operating, and maintaining your Think Gizmos TG633 Ingenious Machines Robotic Kit. This kit allows you to build and control four distinct robotic models: the Tank, Racing Car, Bug, and Knight Robot. It is designed to foster creativity, patience, and cognitive skills in children aged 6 and up.



The Think Gizmos TG633 Ingenious Machines Robotic Kit packaging.

Important Safety Information

Please read all safety instructions carefully before using the product. Keep this manual for future reference.

- **Age Recommendation:** This kit is recommended for children aged 6 years and up. Adult supervision is advised during assembly and initial operation.
- **Small Parts Warning:** The kit contains small parts which may pose a choking hazard for children under 3 years.
- **Battery Safety:** The kit requires 2 AA batteries (included). Ensure batteries are inserted with correct polarity (+/-). Do not mix old and new batteries, or different types of batteries. Remove batteries if the product is not used for an extended period.
- **Material Safety:** All parts are made from safe, non-toxic materials and are certified for the Consumer Product Safety Improvement Act (CPSIA) and HR4040.
- **Electrical Components:** Handle the motor and battery pack with care. Do not expose to water or extreme

temperatures.

Package Contents

Your Think Gizmos TG633 kit includes the following components:

- 237 x Construction Pieces (various shapes and colors)
- 1 x Remote Control Unit
- 1 x Battery Pack/Motor Unit
- 2 x AA Batteries (for the battery pack)
- 1 x User Manual (this document)



All components included in the Think Gizmos TG633 kit.

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TG633 INGENIOUS MACHINES

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PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE USING YOUR INGENIOUS MACHINES.

KEEP THESE INSTRUCTIONS IN A SAFE PLACE FOR FUTURE REFERENCE.

The user manual included with your kit.

Assembly Instructions

The Think Gizmos TG633 kit provides all necessary pieces to build four exciting robotic models. Follow the detailed, step-by-step diagrams in the included user manual to construct each model. Each build typically takes between 35 minutes to 2 hours, depending on the model and builder's experience.

Building the Tank

Assemble the Tank model by connecting the various blocks and gears as shown in the manual. Pay close attention to the track assembly for proper movement.



The completed Tank model.

Building the Racing Car

Construct the Racing Car model, focusing on the wheel and axle connections to ensure smooth motion. This model emphasizes speed and maneuverability.



The completed Racing Car model.

Building the Bug

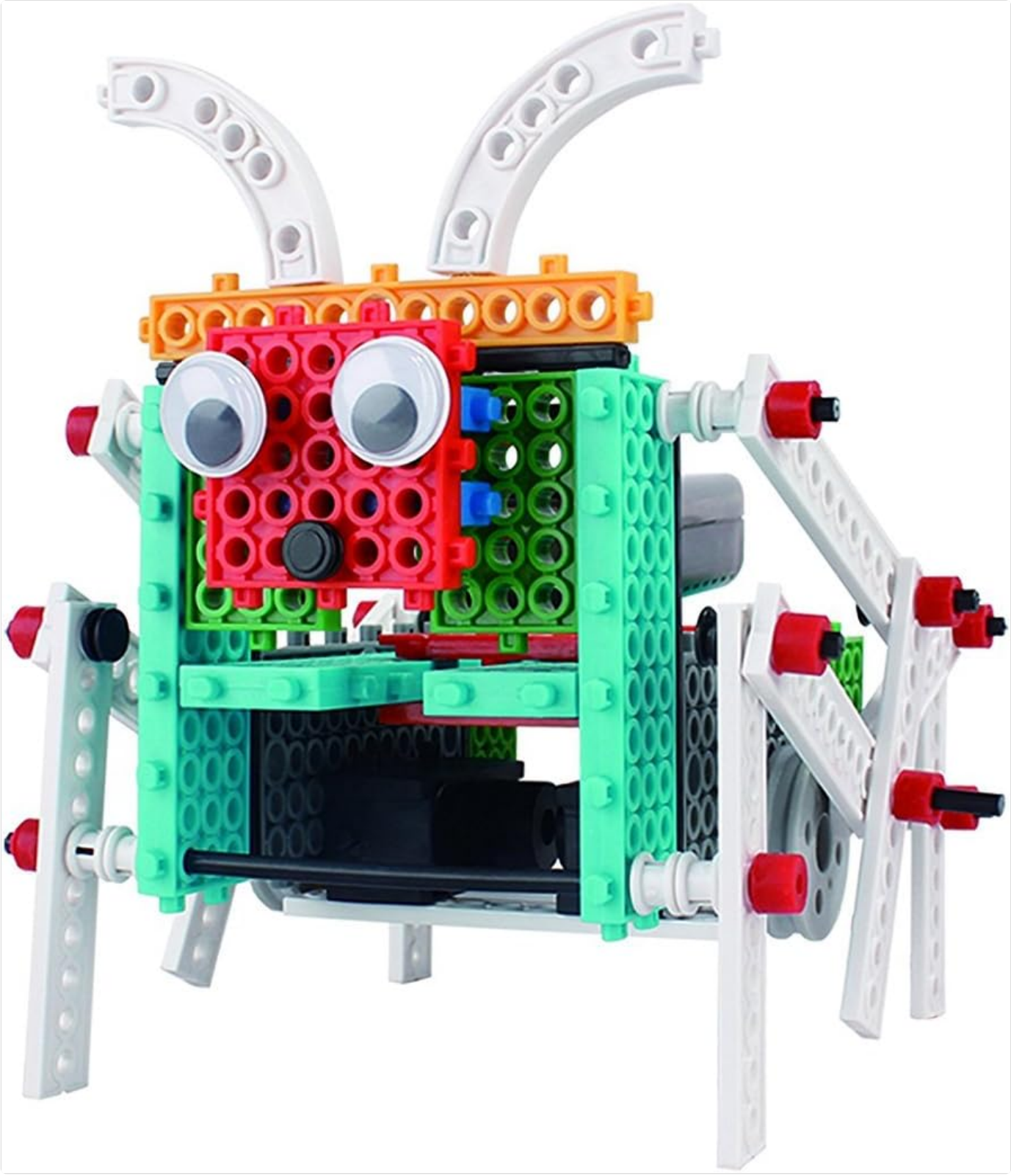
Follow the instructions to build the multi-legged Bug model. This design focuses on unique movement patterns and a distinct insect-like appearance.



The completed Bug model.

Building the Knight Robot

Assemble the Knight Robot, a humanoid-like figure with a shield. This model showcases vertical design and balance.



The completed Knight Robot model.

Operating Your Robotic Models

Once your model is fully assembled and batteries are correctly installed in the battery pack, you can bring your creation to life using the remote control.

Your browser does not support the video tag.

Official product video demonstrating the Ingenious Machines Robotic Kit in action.

Remote Control Functions:

- **Forward/Backward:** Use the directional controls to move your robot forward or backward.
- **Turning:** The remote allows for precise turning, including 180-degree spins.
- **Channel Selection:** The remote control supports up to 8 separate channels. This feature allows multiple Think Gizmos robotic kits to be operated simultaneously in the same area without interference. Refer to the manual for instructions on changing channels.

Ensure a clear line of sight between the remote control and the robot for optimal performance.

Maintenance and Care

Proper care will extend the life of your Think Gizmos Robotic Kit:

- **Cleaning:** Wipe parts with a dry or slightly damp cloth. Do not immerse electrical components in water.
- **Storage:** Store the kit and its components in a cool, dry place away from direct sunlight. Keep all pieces organized to prevent loss.
- **Battery Replacement:** When the robot's performance diminishes, replace the AA batteries in the battery pack. Always use new, high-quality batteries.

Troubleshooting

If you encounter issues with your robotic kit, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Robot does not move or responds intermittently.	Low or incorrectly installed batteries. Loose electrical connections.	Ensure 2 AA batteries are correctly installed in the battery pack with correct polarity. Replace with fresh batteries if needed. Check all wire connections between the battery pack/motor and the remote receiver.
Remote control has a slight delay in response.	Normal operational characteristic. Obstruction between remote and robot.	A slight delay may be inherent to the system. Ensure a clear line of sight between the remote and the robot.

Problem	Possible Cause	Solution
Parts do not fit together or the assembled model doesn't function correctly.	Incorrect assembly step. Misaligned pieces.	Carefully review the assembly instructions and diagrams in the manual. Disassemble and reassemble the problematic section, ensuring all pieces are correctly oriented and securely connected.

Product Specifications

Feature	Detail
Product Dimensions	13.62 x 10.71 x 2.83 inches
Item Weight	2.01 pounds
Item Model Number	TG633
Manufacturer Recommended Age	6 years and up
Batteries	2 AA batteries required (included)
Manufacturer	Think Gizmos
Number of Pieces	237
Models Buildable	Tank, Racing Car, Bug, Knight Robot

Warranty and Support

Think Gizmos is committed to providing high-quality products. For any questions, concerns, or support regarding your TG633 Robotic Kit, please visit the official Think Gizmos store or contact their customer service directly.

Official Think Gizmos Store: https://www.amazon.com/stores/ThinkGizmos/page/82DB8E40-C977-42BC-B848-DD2EC4B4DE42

Please retain your purchase receipt for any warranty claims.

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