**HOGOKIDS 8051**

# HOGOKIDS 5-in-1 STEM Building Set Instruction Manual

Model: 8051
Brand: HOGOKIDS

## 1. Introduction

This manual provides detailed instructions for assembling, operating, and maintaining your HOGOKIDS 5-in-1 STEM Building Set. This versatile kit allows you to construct five different remote-controlled models: a tech robot, racing tank, stunt vehicle, tracked auto, and sleigh car. It features LED lights and dual control options via a 2.4GHz remote control or a dedicated mobile application.




Figure 1: The HOGOKIDS 5-in-1 STEM Building Set showcasing its five distinct buildable models.

## 2. Safety Information

**WARNING: CHOKING HAZARD - Small Parts. Not suitable for children under 3 years.**

- Always supervise children during assembly and play.
- Keep small parts away from infants and young children to prevent choking.
- Do not expose the product to extreme temperatures or direct sunlight.
- Do not submerge the electronic components in water.
- Ensure batteries are inserted with correct polarity.
- Do not mix old and new batteries, or different types of batteries.

## 3. Setup and Assembly

Follow the step-by-step instructions provided in the included physical manual to assemble your desired model. The set

contains 604 pieces designed for easy interlocking.

1. **Unpack Components:** Carefully unbox all parts and verify against the parts list in the physical instruction manual.
2. **Battery Installation:** The main module motor requires a 300mAh rechargeable lithium battery (included). The remote control requires 1 AA battery (included). Ensure correct polarity when inserting batteries.
3. **Assembly:** Refer to the detailed diagrams in the physical instruction manual for step-by-step assembly of each of the five models. Pay close attention to the placement of the LED light components and wiring.




Figure 2: Children engaged in the assembly process of the building set.




Figure 3: Various assembled models with their approximate dimensions.

## 4. Operating Instructions

Your HOGOKIDS building set can be controlled via the included 2.4GHz remote control or a dedicated mobile application.

### 4.1. Powering On and LED Lights

Once assembled and batteries are installed, turn on the main module. The innovative LED lights will flash cool blue when turned on and change colors (green, blue, purple) as the model moves, enhancing the play experience.




Figure 4: The models illuminated by their cool LED lights.

### 4.2. Remote Control Operation

The 2.4GHz remote control provides intuitive command over your assembled model. Use the joysticks and buttons to control movement, direction, and other functions specific to the model (e.g., robot arm movement).




Figure 5: Remote control in use, demonstrating interaction with the models.

### 4.3. Mobile App Control

For advanced control and programming features, download the free HOGOKIDS app. Scan the QR code on the product packaging or in the physical manual to access the download link. The app offers four distinct modes:

- **Driving Mode:** Standard remote control interface for basic movement.
- **Gravity Sensor Mode:** Control the model by tilting your smartphone.
- **Path Mode:** Draw a path on your screen, and the model will follow it.
- **Programming Mode:** Create custom sequences of movements and actions for your model.




Figure 6: The mobile app interface demonstrating various control modes, including path programming.

Download the app here: HOGOKIDS App Download

## 4.4. Key Features in Action

Your browser does not support the video tag.

Video 1: Demonstration of the HOGOKIDS 5-in-1 STEM Robot Building Set, highlighting its LED lights, remote control, and app control features, including transformation between models.




Figure 7: Models showcasing their super grip and high-speed capabilities.




Figure 8: The model's ability to perform a 360-degree rotation.

## 5. Maintenance

- **Cleaning:** Wipe the building blocks and electronic components with a dry, soft cloth. Do not use water or harsh cleaning agents.
- **Storage:** Store the set in a cool, dry place away from direct sunlight and extreme temperatures. Keep all pieces in the original packaging or a suitable storage container to prevent loss.
- **Battery Care:** Remove batteries from the remote control if the toy will not be used for an extended period. Recharge the main module battery as needed; avoid overcharging.
- **Inspection:** Periodically check for any loose or damaged parts. Replace or repair as necessary to ensure safe operation.

## 6. Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| Model does not respond to control. | Low battery in model or remote; not paired; out of range. | Charge model battery, replace remote battery. Ensure model and remote are paired according to instructions. Move closer to the model. |
| LED lights are dim or not working. | Low battery; loose connection. | Charge model battery. Check all LED wiring connections. |
| Model moves slowly or inconsistently. | Low battery; obstruction in tracks/wheels; loose gears. | Charge model battery. Clear any debris from tracks/wheels. Check for securely attached gears. |
| App connection issues. | Bluetooth not enabled; app not updated; model not powered on. | Ensure Bluetooth is enabled on your device. Update the app to the latest version. Power on the model. |

## 7. Specifications

- **Product Dimensions:** 1.97 x 1.97 x 1.18 inches (main module/base)
- **Item Weight:** 2.44 pounds
- **Model Number:** 8051
- **Manufacturer Recommended Age:** 6 years and up
- **Batteries:** 1 AA battery required for remote (included), 300mAh rechargeable lithium battery for main module (included).
- **Control:** 2.4GHz Remote Control & Mobile App Control
- **Motor Speed:** Up to 680 RPM
- **Torsion:** 2.5 KGf.cm
- **Remote Distance:** Up to 50M
- **Features:** 5-in-1 transformable models, LED lighting, anti-skid tracks.

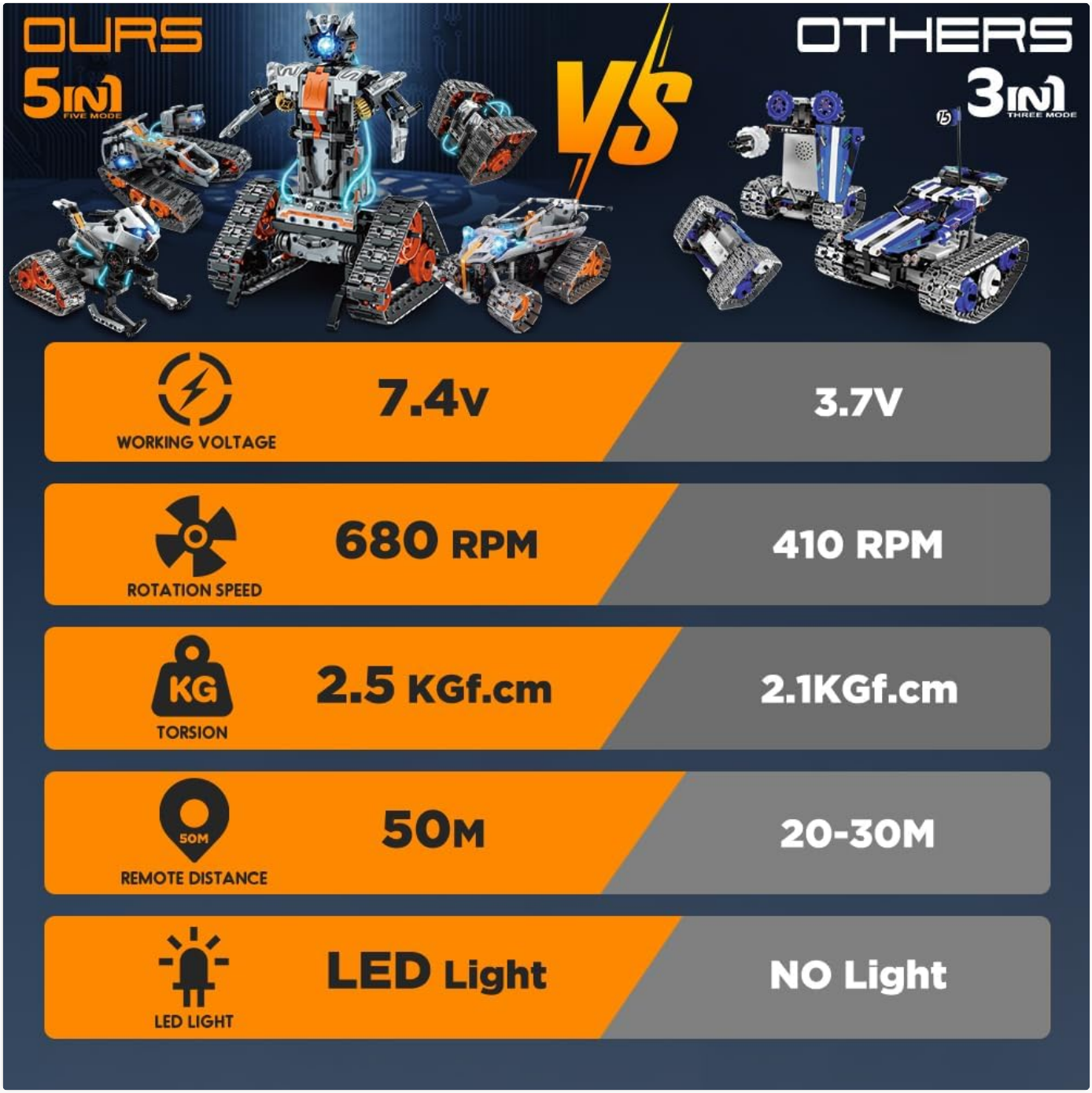



Figure 9: Key performance specifications of the HOGOKIDS building set.

## 8. Warranty and Support

HOGOKIDS is committed to providing high-quality products. For any questions, concerns, or issues regarding your 5-in-1 STEM Building Set, please contact HOGOKIDS customer support through the retailer's platform or the official HOGOKIDS website. Please retain your proof of purchase for warranty claims.

For additional information and product updates, visit the official HOGOKIDS store:HOGOKIDS Store on Amazon

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