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› MiOYOOW DIY 360° Rotating RC Car Kit Instruction Manual

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Model: DIY 360° Rotating RC Car Kit | Brand: MiOYOOW

1. INTRODUCTION

The MiOYOOW DIY 360° Rotating RC Car Kit is an electronic learning project designed for individuals aged 15 and up. This kit provides a hands-on experience in electronics assembly and soldering, culminating in a functional remote-controlled car. The completed car features 360° rotation, multi-directional movement (forward, backward, left, right), and 5 adjustable speed settings, making it an engaging tool for STEM education and hobbyists.

2. WHAT'S IN THE BOX

Carefully unpack the contents and ensure all components are present. Refer to the included paper manual for a detailed component list and visual identification.

- Printed Circuit Board (PCB)
- LEDs (Light Emitting Diodes)
- Resistors and other electronic components
- 4 N20 Motors
- 4 Rubber Tires
- Remote Control Unit
- Battery Holder (for 18650 battery, battery not included)
- USB Charging Cable
- Fasteners and small hardware
- Detailed Paper Installation Manual

What You Will Get



Image: All components included in the MiOYOOW DIY 360° Rotating RC Car Kit.

3. SAFETY INFORMATION

Please read and understand all safety warnings before beginning assembly or operation.

- **Adult Supervision:** This kit is recommended for ages 15 and up due to the soldering requirement. Adult supervision is advised for younger users.
- **Soldering Safety:** Always use appropriate safety equipment, including eye protection and proper ventilation, when soldering. Avoid touching hot soldering iron tips or recently soldered components.
- **Small Parts:** The kit contains small components that can be a choking hazard. Keep out of reach of small children.
- **Battery Safety:** Use only the recommended battery type (18650, not included). Do not short-circuit, disassemble, or expose batteries to extreme temperatures. Dispose of batteries responsibly.
- **Electrical Safety:** Ensure all connections are correct before applying power to prevent damage to components or injury.

4. ASSEMBLY INSTRUCTIONS (SETUP)

Assembly of the MiOYOOOW DIY RC Car Kit requires basic electronic theoretical knowledge and soldering skills. Follow the detailed, color-printed user manual included in your kit for step-by-step guidance.

General Assembly Steps:

1. **Component Identification:** Identify all electronic components (resistors, LEDs, integrated circuits, etc.) and mechanical parts (motors, wheels, battery holder).
2. **Soldering Components:** Carefully solder each electronic component onto the designated pads on the PCB, paying close attention to polarity and orientation as indicated in the manual.
3. **Motor and Wheel Attachment:** Securely attach the N20 motors to the PCB and then mount the rubber tires onto the motor shafts.
4. **Battery Holder Installation:** Install the battery holder and connect it to the PCB.
5. **Final Checks:** Before inserting the battery, perform a visual inspection to ensure all solder joints are clean, there are no short circuits, and all components are correctly placed.

Note: A soldering iron, solder, and basic hand tools are required for assembly and are not included in the kit.



Image: Soldering practice during the assembly of the MiOYOOOW DIY RC Car Kit.



Image: An adult and child engaging in the assembly process of the RC car kit.

5. OPERATING INSTRUCTIONS

Once assembled and charged, the RC car can be controlled using the provided remote control unit.

Remote Control Functions:

- **Power On/Off:** Ensure the car's power switch is in the 'ON' position.
- **Forward/Backward:** Use the directional buttons to move the car forward or backward.
- **Turn Left/Right:** Use the directional buttons to steer the car left or right.
- **360° Rotation:** The car is capable of performing 360-degree rotations. Refer to the remote control layout for specific buttons.
- **Speed Adjustment:** The car features 5 adjustable speed settings. Use the numbered buttons (1-5) on the remote to select the desired speed, with 1 being the slowest and 5 being the fastest.



Image: The RC car performing a 360-degree rotation and illustrating directional controls.

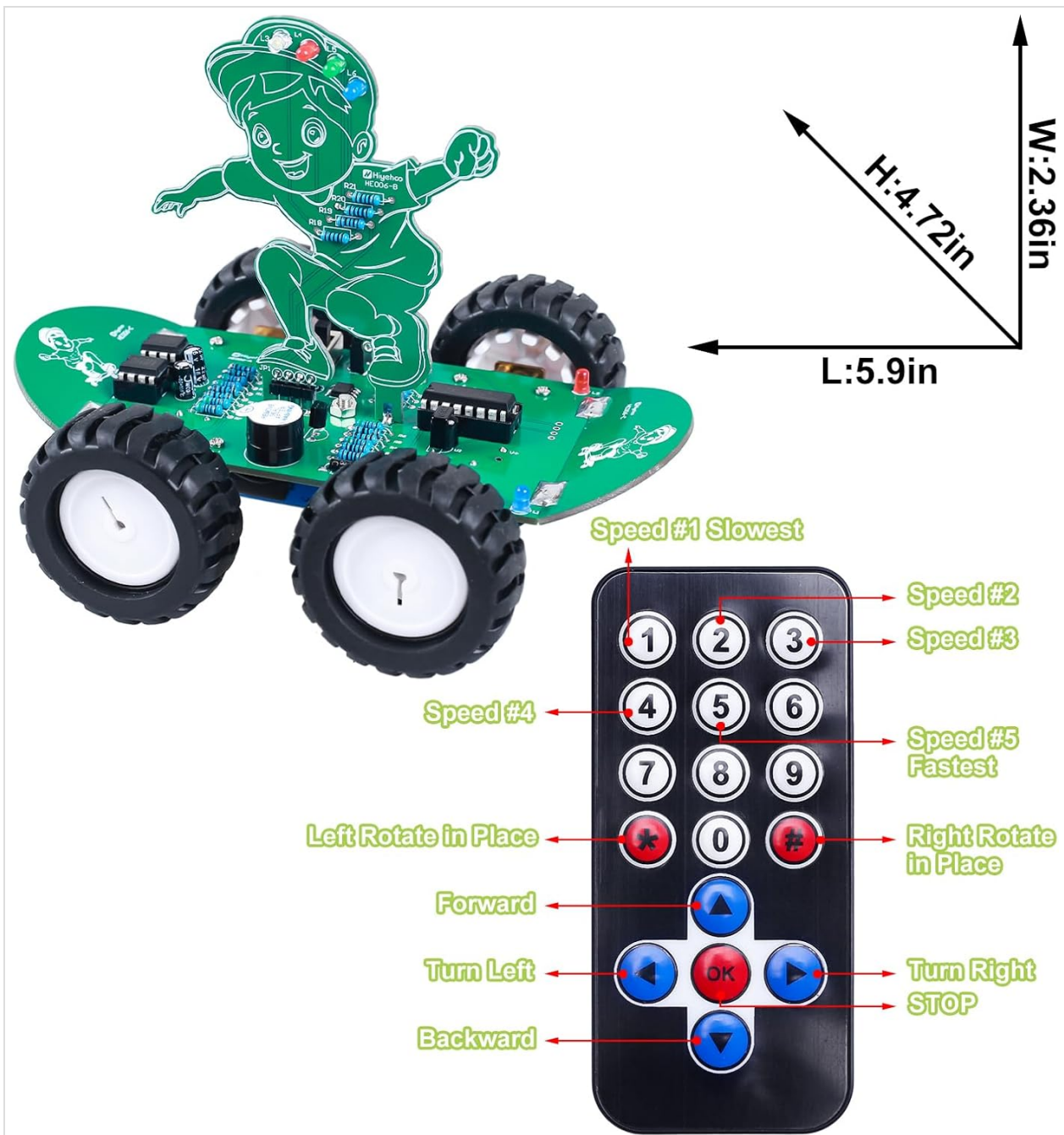


Image: Remote control layout with speed and movement functions clearly marked.

Video: Demonstration of the MiOYOOW DIY RC Car Kit in action, showcasing its 360-degree rotation, adjustable speeds, and remote control functionality both indoors and outdoors. Also shows the charging process.

6. CHARGING INSTRUCTIONS

The RC car features a rechargeable design. A 18650 battery (not included) is required to power the car.

- **Battery Type:** Use a compatible 18650 rechargeable battery.
- **Charging Time:** It takes approximately 3 hours to fully charge the battery.
- **Playtime:** A full charge provides approximately 1-2 hours of playtime, depending on usage and speed settings.
- **Charging Process:** Connect the provided USB charging cable to the designated port on the car and to a suitable USB power source. An indicator light will typically show the charging status.



4 Anti-slips Rubber Tires

Easy driving indoors and outdoors



Image: A visual representation of the 18650 rechargeable battery required for the car.

7. MAINTENANCE

Proper maintenance will ensure the longevity and optimal performance of your RC car kit.

- **Cleaning:** Regularly clean the car and wheels to remove dust, dirt, and debris that may affect movement or component function. Use a soft, dry cloth.
- **Storage:** Store the car in a dry, cool place away from direct sunlight and extreme temperatures. Remove the battery if storing for extended periods.
- **Avoid Water:** The electronic components are not waterproof. Avoid exposing the car to water or high humidity.
- **Component Check:** Periodically inspect solder joints and connections for any signs of wear or damage. Re-solder or repair as necessary.

8. TROUBLESHOOTING

If you encounter issues with your MiOYOOOW DIY RC Car Kit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Car does not power on.	Battery not charged or incorrectly installed. Power switch off. Faulty solder joint.	Ensure battery is charged and correctly inserted with proper polarity. Check power switch. Inspect solder joints for continuity.
Car does not respond to remote control.	Remote control battery low. Car and remote not paired (if applicable). Obstruction between remote and car.	Replace remote control battery. Ensure clear line of sight. Refer to manual for pairing instructions if necessary.
Car moves erratically or only in one direction.	Motor wiring incorrect. Damaged motor. Faulty component.	Verify motor wiring according to the manual. Check for any loose connections or damaged components.

Problem	Possible Cause	Solution
LEDs do not light up.	Incorrect LED polarity. Faulty LED.	Check LED orientation and ensure correct polarity. Test LEDs if possible.

9. SPECIFICATIONS

- **Product Dimensions:** 5.9 x 2.36 x 3.54 inches
- **Item Weight:** 9.9 ounces
- **Manufacturer Recommended Age:** 15 years and up
- **Motors:** 4 x N20 Motors
- **Max Speed:** Up to 200 RPM (Revolutions Per Minute)
- **Speed Settings:** 5 adjustable speeds
- **Battery Type:** 18650 (not included)
- **Charging Time:** Approximately 3 hours
- **Playtime:** 1-2 hours per charge



1 Rechargeable Battery (Not Include)

The battery takes about 3 hours to fully charge and gives you roughly 1.5 hours of playtime at top speed.



1.5+ Hour

Image: The four N20 motors included in the kit, capable of up to 200 RPM.



Image: The anti-slip rubber tires designed for versatile indoor and outdoor use.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or any questions regarding your MiOYOOW DIY 360° Rotating RC Car Kit, please contact MiOYOOW customer service directly through their official channels or the retailer where the product was purchased.

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