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› TesPower MJX Hyper Go 14302 Brushless RC Car Instruction Manual

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TesPower MJX Hyper Go 14302 Brushless RC Car Instruction Manual

Model: 14302

1. INTRODUCTION

Thank you for purchasing the TesPower MJX Hyper Go 14302 Brushless RC Car. This 1/14 scale 4WD high-speed electric remote control car is designed for both racing and drifting, offering a powerful and durable experience. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting to ensure optimal performance and longevity of your RC car.



Image 1.1: The TesPower MJX Hyper Go 14302 RC Car, showcasing its detailed design and illuminated headlights.

2. SAFETY INFORMATION

Important: For use by persons over 14 years of age. Adult supervision is recommended for younger users. Always operate the RC car in a safe environment, away from people, pets, and obstacles. Do not operate near public roads or in wet conditions. Read all instructions before use.

- Keep hands, face, and loose clothing away from moving parts.
- Do not touch the motor or ESC immediately after use, as they may be hot.
- Ensure batteries are charged in a safe area, away from flammable materials.
- Always disconnect the battery from the car when not in use.
- Store the RC car and its components in a cool, dry place.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:



Image 3.1: All components included in the TesPower MJX Hyper Go 14302 RC Car package.

IN THE BOX

- 1 x Truck
- 1 x Transmitter
- 4 x Racing tires
- 4 x Drift tires
- 1 x Screwdriver
- 1 x USB charger
- 1 x 7.4V battery
- 1 x Cooling fan
- 1 x Instructions

- 1 x RC Car (Truck)
- 1 x Remote Control (Transmitter)
- 4 x Racing Tires
- 4 x Drift Tires
- 1 x Screwdriver
- 1 x USB Charging Cable
- 1 x 7.4V 2000mAh 2S 25C Li-Ion Battery
- 1 x Cooling Fan (for motor/ESC)
- 1 x Hexagon Wrench
- 1 x Instruction Manual

4. PRODUCT FEATURES

The TesPower MJX Hyper Go 14302 is engineered with advanced components for high performance and durability:

- **Brushless Motor:** Equipped with a 2845 3700KV four-pole brushless motor for powerful and efficient driving.
- **High-Speed Capability:** Achieves speeds up to 42km/h with the standard 2S battery. Supports 3S batteries (not included) for speeds up to 55km/h.
- **Advanced ESC:** Features a 45A independent brushless ESC with a metal heat sink for reliable power delivery.
- **Full Metal Hydraulic Shock Absorbers:** Durable metal hydraulic shocks provide a smooth ride and handle rough terrain effectively.
- **Metal Collision Head:** A robust metal collision head protects the front of the car from impacts.
- **Full Metal Transmission System:** Includes metal gear differentials for improved traction, durability, and quieter operation.
- **Integrated Gyro:** A new upgrade gyro system enhances stability and control, especially at high speeds.
- **Easy Upgradeability:** Standard independent receiver allows for easy modifications and upgrades.

- **LED Lights:** Features colorful LED lights for enhanced visibility and aesthetics.



Image 4.1: Brushless 2845 3700KV Motor.



Image 4.2: 45A Brushless ESC.



Image 4.3: Metal Differential.



Image 4.4: 7.4V 2S 2000mAh LiPo Battery.

5. SETUP

Follow these steps for initial setup of your RC car:

1. **Charge the Battery:** Connect the provided 7.4V Li-Ion battery to the USB charging cable. Plug the USB cable into a 5V 2A USB adapter (not included). The charging indicator will show the charging status. A full charge takes approximately 4 hours.
2. **Install Car Battery:** Open the battery compartment on the RC car. Carefully insert the fully charged battery, ensuring correct polarity. Secure the battery compartment cover.
3. **Install Remote Control Batteries:** Open the battery cover on the remote control. Insert two 1.5V AA batteries (not included), observing the correct polarity. Close the cover.
4. **Power On:** First, turn on the remote control. Then, turn on the RC car. The car and remote should automatically pair. If not, refer to the troubleshooting section.

5. **Tire Selection:** Choose between the racing tires for grip and speed, or the drift tires for controlled sliding. Install the desired set of tires onto the wheels.



Image 5.1: Internal view of the RC car chassis, highlighting the gyro and other electronic components.

6. OPERATING INSTRUCTIONS

Familiarize yourself with the remote control and car's functions before operating.

6.1 Remote Control Functions

- **Steering Wheel:** Controls left and right steering.
- **Throttle Trigger:** Pull to accelerate forward, push to brake/reverse.
- **Steering Trim:** Adjusts the neutral position of the steering. If the car pulls to one side, use this trim to correct it.
- **Throttle Trim:** Adjusts the neutral position of the throttle. If the car moves slightly without throttle input, use this trim.
- **Speed Mode Switch:** Allows switching between 70% power mode (for beginners or technical circuits) and 100% power mode (for maximum speed).

- **Gyro Adjustment:** If your remote has a gyro adjustment knob, use it to fine-tune the stability control.

6.2 Driving Tips

- Start in 70% speed mode to get accustomed to the car's handling.
- Practice steering and throttle control in an open area.
- For drifting, use the drift tires and practice initiating slides with steering and throttle input. Disconnecting front-wheel drive can enhance drifting capabilities.
- Avoid sudden stops or turns at high speeds to prevent rollovers or damage.
- Monitor battery life and return the car before the battery is completely depleted to avoid sudden power loss.



Image 6.1: The RC car displayed with both rubber racing tires and specialized drift tires.

7. MAINTENANCE

Regular maintenance will extend the life and performance of your RC car.

- **Cleaning:** After each use, especially off-road, clean the car to remove dirt, dust, and debris. Use a soft brush or compressed air. Avoid using water directly on electronics.

- **Inspecting Components:** Regularly check all screws, nuts, and bolts for tightness. Inspect the suspension, steering linkages, and drivetrain for any signs of wear or damage.
- **Motor and ESC Cooling:** Ensure the motor and ESC cooling fans are clear of obstructions. The included cooling fan helps maintain optimal operating temperatures.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge. If storing for extended periods, charge to approximately 50% capacity.
- **Shock Absorbers:** Check the oil-filled shocks for leaks or damage. Refill or replace shock oil as needed.
- **Tires:** Inspect tires for wear and tear. Replace worn tires to maintain optimal performance.



Image 7.1: Close-up of key internal components such as the metal differential, bearings, metal oil-filled shocks, and the Li-Ion battery.

8. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Car does not respond to remote.	Low battery in car or remote; Not paired; Power switch off.	Charge car battery; Replace remote batteries; Ensure both car and remote are powered on and paired.
Car runs slowly or lacks power.	Low car battery; Motor/ESC overheating; Obstruction in drivetrain.	Recharge car battery; Allow components to cool; Check for debris in gears or wheels.
Steering is erratic or pulls to one side.	Steering trim incorrect; Damaged servo or linkage; Gyro setting too high/low.	Adjust steering trim on remote; Inspect servo and linkages for damage; Adjust gyro sensitivity.
Unusual noises during operation.	Debris in gears; Loose components; Worn bearings.	Clean gears; Tighten loose screws; Inspect and replace worn bearings.
Car overheats quickly.	Overuse; Insufficient cooling; Incorrect gearing.	Allow car to cool between runs; Ensure cooling fan is working; Consult advanced guides for gearing adjustments.

9. SPECIFICATIONS

Detailed technical specifications for the TesPower MJX Hyper Go 14302 RC Car:

Feature	Specification
Scale	1/14
Maximum Speed (2S Battery)	42 km/h
Maximum Speed (3S Battery)	55 km/h (3S battery not included)
Motor	Brushless Motor 2845 3700KV 4 Poles
ESC	45A Brushless ESC (with metal heat sink)
Servo	17g Digital Servo
Remote Control Frequency	2.4GHz
Remote Control Distance	120m
Car Battery	7.4V 2000mAh 2S 25C Li-Ion
Battery Use Time	Approx. 13 minutes (with 2S 2000mAh battery)
Charging Time	Approx. 4 hours (using 5V 2A charger)
Charging Method	USB charging cable
Product Dimensions	320 x 153 x 115 mm (12.6 x 6 x 4.5 inches)
Wheelbase	192 mm
Wheel Base	125 mm

Feature	Specification
Tire Diameter	58 mm
Item Weight	2.3 pounds
Recommended Age	15 years and up