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- › [DAPENGNIAO](#) /
- › [DAPENGNIAO 1/10 RC 4WD On-Road Drift Car \(HSP 94123 PRO\) Instruction Manual](#)

DAPENGNIAO HSP 94123 PRO

DAPENGNIAO 1/10 RC 4WD On-Road Drift Car (HSP 94123 PRO) Instruction Manual

Model: HSP 94123 PRO

[Box](#) [Setup](#) [Operating](#) [Introduction](#) [Maintenance](#) [Safety Information](#) [Troubleshooting](#) [What's in the Specifications](#) [Warranty & Support](#)

1. INTRODUCTION

Thank you for choosing the DAPENGNIAO 1/10 Scale RC 4WD On-Road Drift Car (HSP 94123 PRO). This manual provides essential information for the assembly, operation, and maintenance of your RC model. Please read it thoroughly before use to ensure proper function and safety.



Figure 1: The DAPENGNIAO 1/10 RC 4WD On-Road Drift Car chassis, showcasing its blue metal frame, wheels, and front bumper.

2. SAFETY INFORMATION

Operating remote-controlled vehicles requires caution. Please observe the following safety guidelines:

- Always operate your RC car in open areas, away from people, pets, and obstacles.
- Do not operate near public roads or in crowded spaces.
- Keep hands, face, and loose clothing away from moving parts.
- Ensure all components are securely fastened before operation.
- Use only recommended batteries and charging equipment.
- Store the RC car and its components in a dry, safe place, out of reach of children.
- Adult supervision is recommended for younger users.

3. WHAT'S IN THE BOX

Your package includes the following components for the RC car:

- RC car components including a chassis, wheels, motor, servo, battery, and any necessary hardware

for assembly.

Note: This product is an empty frame version, meaning essential electronic components like the motor, servo, and battery are included but require installation.

4. SETUP AND ASSEMBLY

This RC car is provided as an empty frame, requiring assembly and installation of electronic components. Follow these general steps for setup:

4.1 Chassis Overview



Figure 2: Top view of the chassis, illustrating the general layout for component installation.

Familiarize yourself with the chassis layout. The main frame is designed to accommodate standard RC components.

4.2 Motor Installation

1. Ensure the motor mount is correctly positioned.
2. This chassis supports brushed 540 motors or brushless 3650 motors.
3. The matching motor teeth shaft diameter is 3.175 MM.

4. Secure the motor to the motor mount using appropriate screws.
5. Adjust gear mesh between the motor pinion and spur gear to ensure smooth operation without binding.

4.3 Servo Installation

1. The servo mount is designed for servos with dimensions: length 41MM, thickness 20MM, width 36MM.
2. Install the steering servo into its designated slot.
3. Connect the servo horn to the steering linkage.
4. Ensure the servo operates freely without obstruction.

4.4 Battery Installation

1. The battery slot can accommodate batteries with dimensions: length 135~140MM, width 43~45MM, thickness 16~40MM.
2. Carefully place the battery into the battery tray.
3. Secure the battery using straps or clips to prevent movement during operation.
4. Connect the battery to the Electronic Speed Controller (ESC) once all other electronics are installed and verified.

4.5 Electronic Speed Controller (ESC) and Receiver Installation

1. Mount the ESC and receiver in suitable locations on the chassis, typically using double-sided tape.
2. Connect the motor to the ESC, the ESC to the battery, and the servo to the receiver.
3. Refer to the specific ESC and receiver manuals for detailed wiring and binding instructions.



Figure 3: Underside view of the chassis, highlighting the durable metal construction and suspension components.

5. OPERATING YOUR RC CAR

Once assembled and powered, follow these general operating procedures:

- **Pre-Run Check:** Before each use, inspect all screws, linkages, and connections. Ensure the battery

is fully charged.

- **Power On:** Turn on the transmitter first, then the RC car.
- **Control:** Use the transmitter's steering wheel for direction and the trigger for throttle (forward/reverse).
- **Drifting:** Practice smooth throttle and steering inputs to initiate and maintain drifts.
- **Post-Run:** Turn off the RC car first, then the transmitter. Disconnect the battery.

6. MAINTENANCE

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

- **Cleaning:** After each run, clean dirt and debris from the chassis, suspension, and drivetrain. Use a soft brush or compressed air.
- **Inspection:** Regularly check for loose screws, worn tires, damaged suspension components, or frayed wires.
- **Lubrication:** Apply appropriate RC-specific lubricants to moving parts like bearings and gears as needed.
- **Battery Care:** Follow manufacturer guidelines for charging, discharging, and storing batteries.
- **Storage:** Store the RC car in a clean, dry environment.

7. TROUBLESHOOTING

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Car does not respond to controls.	Low battery in car or transmitter; transmitter not paired; loose connections.	Charge/replace batteries; re-bind transmitter and receiver; check all wiring.
Car runs slowly or with reduced power.	Low battery; motor overheating; gear mesh too tight; damaged motor.	Charge battery; allow motor to cool; adjust gear mesh; inspect/replace motor.
Steering is erratic or unresponsive.	Loose servo horn; damaged servo; steering linkage obstruction.	Tighten servo horn; replace servo; clear obstructions.
Unusual noises during operation.	Debris in gears; worn bearings; loose components.	Clean gears; replace worn bearings; tighten loose parts.

8. SPECIFICATIONS

Key specifications for the DAPENGNAO 1/10 RC 4WD On-Road Drift Car (HSP 94123 PRO):

- **Frame Material:** Metal
- **Product Dimensions:** 360mm (Length) x 200mm (Width) x 112mm (Height)
- **Ground Clearance:** 27mm
- **Wheelbase:** 265mm (front to rear)
- **Transmission Ratio:** 1:6.52

- **Drive System:** 4 Wheel Drive (4WD)
- **Matching Motor Pinion Shaft Diameter:** 3.175 MM
- **Mountable Motor Size:** Brushed-540 / Brushless-3650
- **Installable Battery Slot Dimensions:** Length 135~140MM, Width 43~45MM, Thickness 16~40MM
- **Mountable Servo Size:** Length 41MM, Thickness 20MM, Width 36MM

9. WARRANTY AND SUPPORT

For any questions or problems regarding this product, please contact the seller directly. They are committed to resolving your issues and ensuring your satisfaction.

Please retain your proof of purchase for any support inquiries.