

Yokomo RDR-020

Yokomo Rookie Drift RD2.0 Assembly Kit Instruction Manual

Model: RDR-020 | Brand: Yokomo

1. INTRODUCTION

This manual provides essential information for the assembly, setup, operation, and maintenance of your Yokomo Rookie Drift RD2.0 Assembly Kit. The RD2.0 is designed as an entry-level drift radio control chassis, emphasizing ease of use and expandability for future customization. Please read these instructions thoroughly before beginning assembly to ensure correct construction and optimal performance.

2. PRODUCT OVERVIEW

The Yokomo Rookie Drift RD2.0 is an unassembled chassis kit for a drift radio control car. It features a design focused on improving base specifications for new users, including enhanced cutting angles and rear grip. The chassis configuration allows for future upgrades and customization with optional parts.

Key Features:

- New 4-gear gearbox design.
- Front suspension mount (43.5 mm).
- Standard rear short arm.
- New main chassis and upper deck, suitable for short and standard configurations.
- New steering wiper and steering rack system.
- Standard rear ESC mount.
- Front knuckle and rear hub utilizing SD2.0 standard.
- Revised gearbox position.
- New front suspension arm (4.5 mm rod specification) and front upper arm.

What's in the Box:

- Yokomo Rookie Drift RD2.0 Chassis Kit (unassembled components).
- 1 x Vehicle Body Panel (Note: This is a single panel; a complete body may require additional components).
- Detailed assembly instruction manual (included in the kit packaging).



Figure 2.1: Fully assembled Yokomo Rookie Drift RD2.0 chassis, showcasing its layout and components.

3. ASSEMBLY

The Rookie Drift RD2.0 is an assembly kit. Detailed, step-by-step instructions are provided in the separate assembly manual included with your kit. Follow these instructions carefully, paying close attention to part orientation and screw types. Proper assembly is critical for the performance and durability of your RC drift car.

Key Assembly Areas:

- **Chassis Frame:** Assemble the main chassis and upper deck according to the manual.
- **Gearbox and Drivetrain:** Construct the 4-gear gearbox and install the drivetrain components.
- **Suspension:** Assemble the front and rear suspension arms, shock absorbers, and knuckles.
- **Steering System:** Install the steering wiper, steering rack, and associated linkages.



Figure 3.1: Detailed view of the front suspension and bumper assembly, highlighting the steering components and shock mounts.



Figure 3.2: Close-up of the front bumper, designed for impact absorption and chassis protection.



Figure 3.3: The front suspension system, showing the arms, shock towers, and their attachment points to the chassis.



Figure 3.4: The steering wiper and rack mechanism, crucial for precise steering control in drift applications.



Figure 3.5: The rear hub and knuckle assembly, which connects the wheels to the chassis and houses the rear axles.



Figure 3.6: An underside view of the chassis, illustrating the layout of the suspension components and the central drive shaft area.

4. SETUP

After assembling the chassis, you will need to install and configure the necessary electronic components and make initial adjustments.

Required Additional Components (Not Included in Kit):

The RD2.0 is an unassembled chassis kit. To operate the vehicle, you will need to purchase the following items separately:



Figure 4.1: Visual representation of essential components required to complete and operate the RC drift car.

1. **2-Channel Transmitter & Receiver:** For remote control of the vehicle.
2. **Steering Servo:** To control the steering mechanism.
3. **Steering Gyro:** Essential for drift control, assisting in maintaining slide angles.
4. **Speed Controller (ESC):** To regulate motor speed and direction.
5. **Motor:** The power unit for the vehicle.
6. **Battery:** To power the motor and electronics.
7. **Charger:** For recharging the battery.
8. **Drift Body:** A complete body shell for the vehicle.
9. **Polycarbonate Paint:** For customizing the drift body.
10. **Drift Tires & Wheels:** Specific tires and wheels designed for drift performance.

Initial Adjustments:

- **Steering Trim:** Adjust the transmitter's steering trim so the wheels are straight when the steering wheel is centered.
- **Throttle Trim:** Ensure the throttle is neutral when the trigger is released.
- **Suspension:** Set initial ride height and damping according to the assembly manual's recommendations. Fine-tune later based on driving surface and preference.
- **Gyro Sensitivity:** Adjust the gyro sensitivity to provide stable drift control without overcorrection.

5. OPERATING

Once assembled and set up, your Yokomo Rookie Drift RD2.0 is ready for operation. Always operate your RC vehicle in a safe and responsible manner.

Basic Operation Guidelines:

- **Power On Sequence:** Always turn on your transmitter first, then the vehicle's receiver/ESC. When finished, turn off the vehicle first, then the transmitter.
- **Steering:** Use the steering wheel on your transmitter to control the direction of the front wheels.
- **Throttle:** Use the trigger on your transmitter to control forward and reverse movement, and speed.
- **Drifting:** Practice smooth throttle and steering inputs to initiate and maintain drifts. The steering gyro will assist in stabilizing the vehicle during slides.

Safety Precautions:

- Operate in open areas away from people, pets, and obstacles.
- Do not operate near public roads or in wet conditions.
- Always supervise children operating the vehicle.
- Ensure batteries are charged safely and correctly.

6. MAINTENANCE

Regular maintenance will ensure the longevity and optimal performance of your Rookie Drift RD2.0.

Routine Checks:

- **Inspect Screws:** Periodically check all screws for tightness. Vibrations during operation can loosen them.
- **Clean Moving Parts:** Remove dirt and debris from suspension arms, steering linkages, and drivetrain components.
- **Gear Inspection:** The kit includes plastic gears in the drivetrain and differential. Inspect these regularly for wear or damage and replace as needed.
- **Shock Absorbers:** Check for leaks or inconsistent damping. Refill or replace shock oil as necessary.
- **Tires:** Inspect drift tires for wear. Replace them when performance degrades.

Lubrication:

Apply appropriate RC-specific grease or oil to moving metal-on-metal parts, such as universal joints and bearings, to reduce friction and wear.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your Rookie Drift RD2.0.

Common Issues and Solutions:

- **Vehicle Not Responding:**
 - Check battery charge in both the vehicle and transmitter.
 - Ensure all electronic connections are secure.
 - Verify the transmitter and receiver are properly bound.
- **Poor Steering Response:**
 - Check servo connections and functionality.
 - Inspect steering linkages for binding or damage.
 - Adjust steering trim on the transmitter.
- **Inconsistent Drift Performance:**
 - Adjust gyro sensitivity.
 - Check tire condition and ensure they are suitable for drifting.
 - Inspect suspension settings for balance.
- **Unusual Noises from Drivetrain:**

- Inspect gears (especially plastic ones) for wear or foreign objects.
- Check motor pinion and spur gear mesh.

If issues persist, consult the detailed assembly manual or seek assistance from experienced RC enthusiasts or your retailer.

8. SPECIFICATIONS

Specification	Detail
Product Dimensions	15.75 x 7.87 x 7.87 inches
Item Weight	2.84 pounds
ASIN	B0CNTSTGVN
Item Model Number	RDR-020
Manufacturer	Yokomo

9. WARRANTY AND SUPPORT

Yokomo products are manufactured to high standards. For specific warranty information, please refer to the documentation included with your product or visit the official Yokomo website. Keep your proof of purchase for any warranty claims.

Customer Support:

For technical assistance, spare parts, or further inquiries, please contact your authorized Yokomo dealer or visit the official Yokomo support channels. Contact information can typically be found on the manufacturer's website.