

## Yokomo MDR-010P

# Yokomo MDR-010P Limited Edition Master Drift 1/10 RWD Drift Car Kit User Manual

Model: MDR-010P | Brand: Yokomo

## 1. INTRODUCTION

This manual provides comprehensive instructions for the assembly, operation, and maintenance of the Yokomo MDR-010P Limited Edition Master Drift 1/10 RWD Drift Car Kit. The MDR-010P incorporates advanced drift technology and extensive adjustability, designed for competitive drifting. This kit requires assembly and additional components to be fully operational.

The Yokomo MD 1.0 Master Drift 1/10 2WD RWD Drift Car Kit features the latest drift technology, leveraging years of Yokomo's drifting experience. It includes innovative features such as graphite suspension arms, a first for drift cars, indicating its race-inspired design. The vehicle offers extensive adjustability for car width, skid angle, roll center, camber, toe, and more, allowing precise tuning for various track conditions. It comes with a three-gear transmission for positive torque, with an optional four-gear conversion for a more neutral setup.

## 2. KEY FEATURES

- Limited Edition Purple:** Distinctive color anodized main aluminum parts.
- RWD Gear Drive:** Optimized for rear-wheel drive drifting.
- Aluminum Shock Towers:** Durable front and rear aluminum shock towers.
- Lightweight Graphite Shorty Battery Holder:** Designed for optimal weight distribution.
- 5mm Graphite Suspension Arms:** Enhanced durability and performance.
- Differential Height Adjustment:** Three levels of adjustment for tuning.
- Adjustable Motor Position:** Thirteen levels of adjustment for motor placement.
- Aluminum Rod End Adapter:** For precise linkage adjustments.
- Big Bore Aluminum Low Friction Shocks:** For superior damping performance.
- Updated Ultra-Lightweight Slide Rack Steering:** Provides precise steering response.
- Graphite Upper Deck:** Adds rigidity and reduces weight.
- Graphite Rear ESC Mount:** Maximizes traction by optimizing ESC placement.
- Graphite Flat Body Mount:** Secure and lightweight body mounting.

### 3. SAFETY INFORMATION

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Always operate the RC car in a safe and responsible manner. Failure to follow safety guidelines can result in injury or damage to property.

- Read the entire manual before assembly and operation.
- Keep hands, face, and loose clothing away from moving parts.
- Do not operate near people, pets, or obstacles.
- Ensure batteries are charged safely and correctly.
- Use only genuine Yokomo parts or approved accessories.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 warning).
- Recommended age for operation is 14 months and up, but adult supervision is highly recommended for younger users due to the complexity and speed of the model.

### 4. PACKAGE CONTENTS & NEEDED TO COMPLETE

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The Yokomo MDR-010P is a kit that requires assembly. The package contains the components for the chassis. Additional items are required to complete the model and make it operational.

#### Items Not Included (Needed to Complete):

- Radio system (transmitter and receiver)
- Steering servo
- Electronic Speed Controller (ESC)
- Motor
- Battery pack and charger
- Drift tires and wheels
- RC car body
- Assembly tools (e.g., hex wrenches, screwdrivers, pliers)
- Adhesives and lubricants (e.g., threadlock, shock oil)

### 5. SETUP AND ASSEMBLY

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Follow the detailed assembly instructions provided in the separate assembly manual included with your kit. This section provides general guidance and highlights key adjustment points.

#### General Assembly Steps:

1. **Chassis Assembly:** Begin by assembling the carbon fiber main chassis and upper deck.
2. **Suspension Installation:** Attach the graphite suspension arms, aluminum shock towers, and big bore aluminum low friction shocks. Pay attention to shock oil viscosity and spring rates for desired damping.
3. **Drivetrain Assembly:** Install the RWD gear drive system. Ensure all gears mesh smoothly.
4. **Steering System:** Assemble the ultra-lightweight slide rack steering system and install the steering servo. Ensure smooth, bind-free movement.
5. **Electronics Installation:** Mount the motor, ESC (on the graphite rear ESC mount), receiver, and battery (in the graphite shorty battery holder). Route wires neatly to avoid interference with moving parts.
6. **Wheel and Tire Mounting:** Mount your chosen drift tires onto the wheels and attach them to the chassis.
7. **Body Mounting:** Secure your RC car body using the graphite flat body mounts.

## Initial Adjustments:

- **Camber and Toe:** Adjust front and rear camber and toe settings using the aluminum rod end adapters for optimal drift characteristics.
- **Ride Height:** Set the ride height using the shock collars to achieve desired ground clearance and suspension travel.
- **Differential Height:** Experiment with the 3-level differential height adjustment to fine-tune traction and power delivery.
- **Motor Position:** Adjust the motor position (13 levels) to influence weight distribution and torque characteristics.
- **Transmission Setup:** The kit comes with a three-gear transmission. Consider the optional four-gear conversion for different torque characteristics if desired.



Figure 1: Assembled Yokomo MDR-010P Master Drift Chassis.

This image displays the assembled chassis of the Yokomo MDR-010P Master Drift car kit. It highlights the purple anodized aluminum components, including the shock towers, suspension arms, and motor mount, contrasted with the black carbon fiber main chassis and upper deck. The RWD gear drive system and big bore aluminum low friction shocks are visible. The car is shown without its body shell, revealing the intricate internal structure and component layout.

## 6. OPERATING INSTRUCTIONS

Once assembled and all electronics are properly installed and calibrated, your Yokomo MDR-010P is ready for operation.

### Pre-Operation Checklist:

- Ensure all screws are tightened and components are secure.
- Check battery charge levels for both the car and transmitter.
- Verify steering and throttle response are correct and calibrated with your radio system.
- Inspect tires for proper mounting and wear.
- Choose a suitable, open area free from obstacles, people, and water.

### Basic Operation:

1. Turn on the transmitter first, then the car's ESC.

2. Gently apply throttle to move the car forward. Practice smooth throttle control for drifting.
3. Use the steering wheel on your transmitter to control direction.
4. Practice initiating and maintaining drifts. The RWD setup requires precise throttle and steering inputs.
5. When finished, turn off the car's ESC first, then the transmitter.

## 7. MAINTENANCE

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Regular maintenance will ensure the longevity and optimal performance of your MDR-010P.

- Cleaning:** After each use, clean the chassis and components to remove dirt, dust, and debris. Use a soft brush or compressed air.
- Inspection:** Regularly inspect all screws, nuts, and bolts for tightness. Check for any worn or damaged parts, especially suspension components, gears, and bearings.
- Lubrication:** Apply appropriate lubricants to moving parts as recommended in the assembly manual. Do not over-lubricate.
- Shocks:** Check shock oil levels and replace if necessary. Inspect O-rings for leaks.
- Tires:** Inspect tires for wear and replace when traction diminishes.
- Electronics:** Keep electronics clean and dry. Ensure connectors are secure.
- Storage:** Store the car in a clean, dry place away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.

## 8. TROUBLESHOOTING

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This section addresses common issues you might encounter with your MDR-010P.

Problem	Possible Cause	Solution
Car does not respond to transmitter.	Low battery in car or transmitter; transmitter not turned on; binding issue.	Charge batteries; turn on transmitter first; re-bind transmitter and receiver.
Poor steering response.	Loose servo horn; damaged servo; steering linkage binding; incorrect trim.	Tighten servo horn screw; replace servo; check for obstructions; adjust steering trim on transmitter.
Motor runs but wheels do not turn.	Stripped gears; loose pinion gear; broken drivetrain component.	Inspect and replace stripped gears; tighten pinion screw; identify and replace broken parts.
Car drifts inconsistently.	Uneven tire wear; suspension setup issues (camber, toe, ride height); differential issues.	Check and replace tires; re-adjust suspension settings; inspect differential.

## 9. SPECIFICATIONS

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Attribute	Detail
Model Name	MDR-010P Limited Edition Master Drift
Scale	1/10

Attribute	Detail
<b>Drive Type</b>	RWD (Rear-Wheel Drive)
<b>Chassis Material</b>	Graphite (Carbon Fiber)
<b>Suspension</b>	5mm Graphite Suspension Arms, Big Bore Aluminum Low Friction Shocks
<b>Transmission</b>	3-Gear (convertible to 4-Gear with optional parts)
<b>Product Dimensions</b>	14 x 6 x 3.4 inches
<b>ASIN</b>	B0C34G4NPM
<b>Manufacturer Recommended Age</b>	14 months and up
<b>Manufacturer</b>	Yokomo

## 10. WARRANTY AND SUPPORT

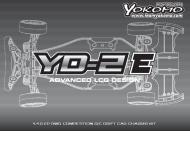
For specific warranty information and technical support, please refer to the documentation included with your purchase or visit the official Yokomo website. Keep your proof of purchase for warranty claims.

**Yokomo Official Website:** [www.teamyokomo.com](http://www.teamyokomo.com)

For replacement parts or further assistance, contact your authorized Yokomo dealer or distributor.

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### Related Documents - MDR-010P

	<p><a href="#">Yokomo MD2.0 1/10 EP RWD Competition R/C Drift Car Chassis Kit Assembly Manual</a>          Detailed assembly instructions for the Yokomo MD2.0 1/10 scale EP RWD Competition R/C Drift Car Chassis Kit. Includes safety precautions, parts list, and step-by-step building guide for enthusiasts.</p>
	<p><a href="#">Yokomo YD-2E 1/10 EP RWD Competition RC Drift Car Chassis Kit Assembly Manual</a>          Comprehensive assembly manual for the Yokomo YD-2E, a 1/10 scale electric RWD competition RC drift car chassis kit. Includes detailed instructions, safety precautions, parts lists, and setting sheets.</p>
	<p><a href="#">Yokomo YZ-10 Classic Kit Assembly Instructions</a>          Detailed assembly instructions for the Yokomo YZ-10 Classic Kit, a 1/10 scale electric 4WD R/C off-road racing machine by Yokomo Ltd. Tokyo.</p>

	<p><a href="#">Yokomo R160/R100 Drift Spec Brushless Speed Controller Manual</a></p> <p>This manual provides instructions for setting up and using the Yokomo R160 and R100 Brushless Speed Controllers for drift racing. It covers specifications, connection methods, initial setup, and detailed ESC settings adjustments.</p>
	<p><a href="#">Yokomo Super Dog Fighter Works '91 RC Car Instruction Manual</a></p> <p>Comprehensive instruction manual for the Yokomo Super Dog Fighter Works '91, a 1/10 scale electric competition radio control off-road 4WD racing car. Includes assembly steps, safety precautions, and parts lists.</p>
	<p><a href="#">Yokomo Drift Package RTR: RC Drift Car Guide and Optional Parts</a></p> <p>Explore the Yokomo Drift Package RTR, a 1/10 EP 2WD RC drift car. Learn about its features, optional parts for performance enhancement, and the Tsukuba RC Arena.</p>