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Yokomo Y2-RMC

Yokomo YD-2 Rear Motor Conversion KIT (Y2-RMC) Instruction Manual

INTRODUCTION

This document provides comprehensive instructions for the installation, operation, and maintenance of the Yokomo YD-2 Rear Motor Conversion KIT (Y2-RMC). This optional conversion kit is designed for use with all Yokomo YD-2 series chassis, aiming to optimize rear traction without significantly altering the overall weight distribution. By relocating the motor, the kit enhances traction control, particularly on low-grip surfaces, which is beneficial for drift applications. The design process involved extensive testing to achieve an optimal balance for high driveability and efficient traction.

PACKAGE CONTENTS

Before beginning the installation, please verify that all components listed below are present in your kit. Refer to the image below for a visual representation of the kit contents.



Image Description: A top-down view of all components included in the Yokomo YD-2 Rear Motor Conversion Kit. This includes the main motor plate, a chassis brace, two gearbox halves, various screws, spacers, and ball studs.

- Rear Motor Plate
- Motor Mount (adjustable in 6 levels)
- Gearbox Housing (left and right halves)
- Various Screws and Fasteners
- Spacers and Ball Studs

INSTALLATION GUIDE

This section outlines the steps required to install the YD-2 Rear Motor Conversion KIT onto your Yokomo YD-2 series chassis. Ensure your workspace is clean and you have the necessary tools.

1. **Preparation:** Carefully disassemble the rear section of your existing YD-2 chassis, removing the original motor mount, gearbox, and associated components. Refer to your YD-2 chassis manual for specific disassembly instructions.
2. **Motor Mount Assembly:** Attach your motor to the new rear motor plate. The included motor mount allows for 6 levels of height adjustment. Select an initial height setting that provides adequate gear mesh and clearance.
3. **Gearbox Assembly:** Assemble the new gearbox housing halves around the internal gears and differential from your original YD-2 chassis. Ensure all bearings and shims are correctly positioned.
4. **Integration with Chassis:** Mount the assembled gearbox and motor plate onto the YD-2 chassis. Secure all fasteners according to the provided diagram (if applicable) or standard RC assembly practices.



Image Description: A close-up side view of the assembled rear motor conversion unit, showing the motor, spur gear, pinion gear, and the new gearbox housing. The motor is positioned higher and further back than a standard YD-2 setup.

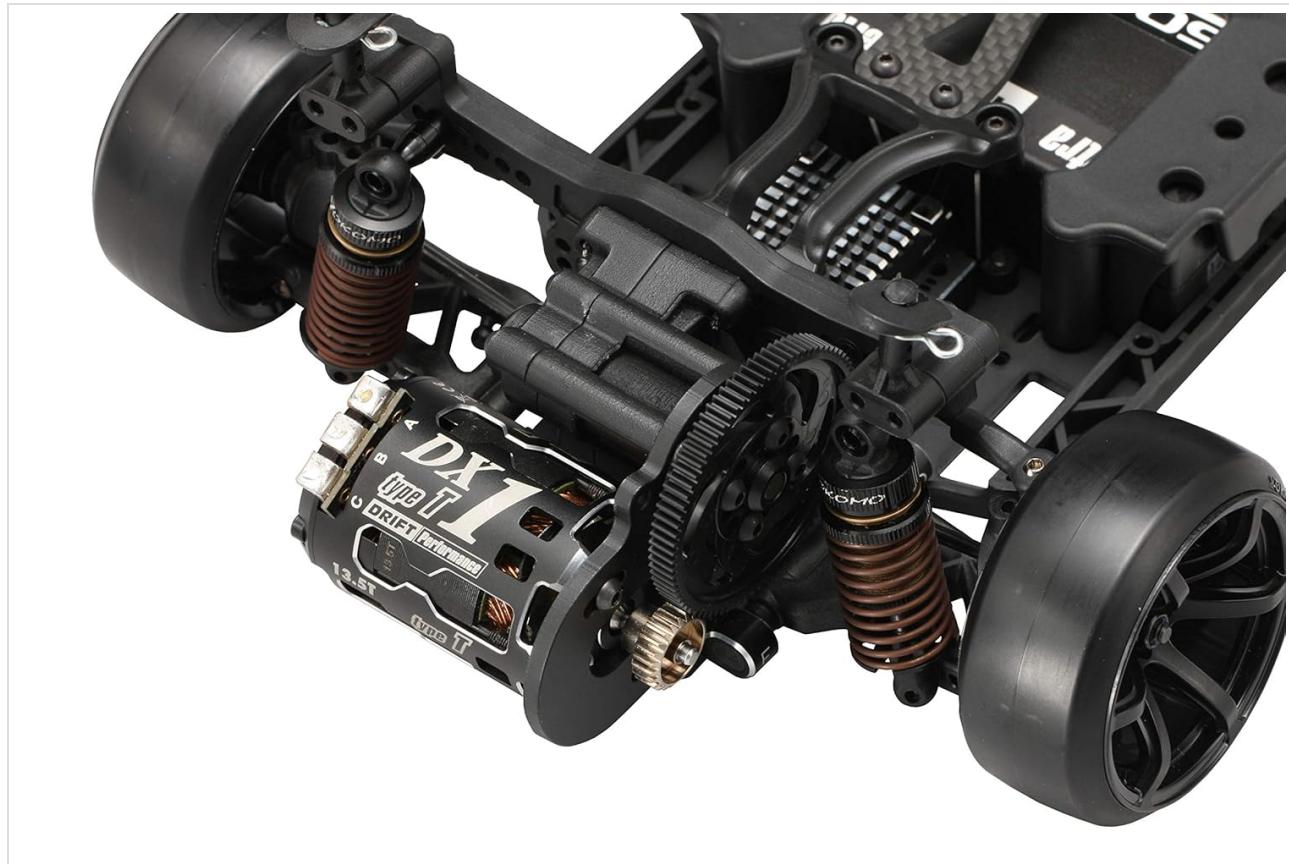


Image Description: A top-rear perspective of the assembled rear motor conversion, highlighting the motor's position relative to the chassis and the gear train. The motor is clearly visible above the rear axle line.

5. Final Assembly and Adjustments:

Reattach any remaining components such as suspension arms, shock

towers, and shocks. Perform initial adjustments for gear mesh and ensure all moving parts operate smoothly.



Image Description: A side view of a Yokomo YD-2 chassis with the rear motor conversion kit fully installed. The motor is prominently located at the very rear of the chassis, above the differential.

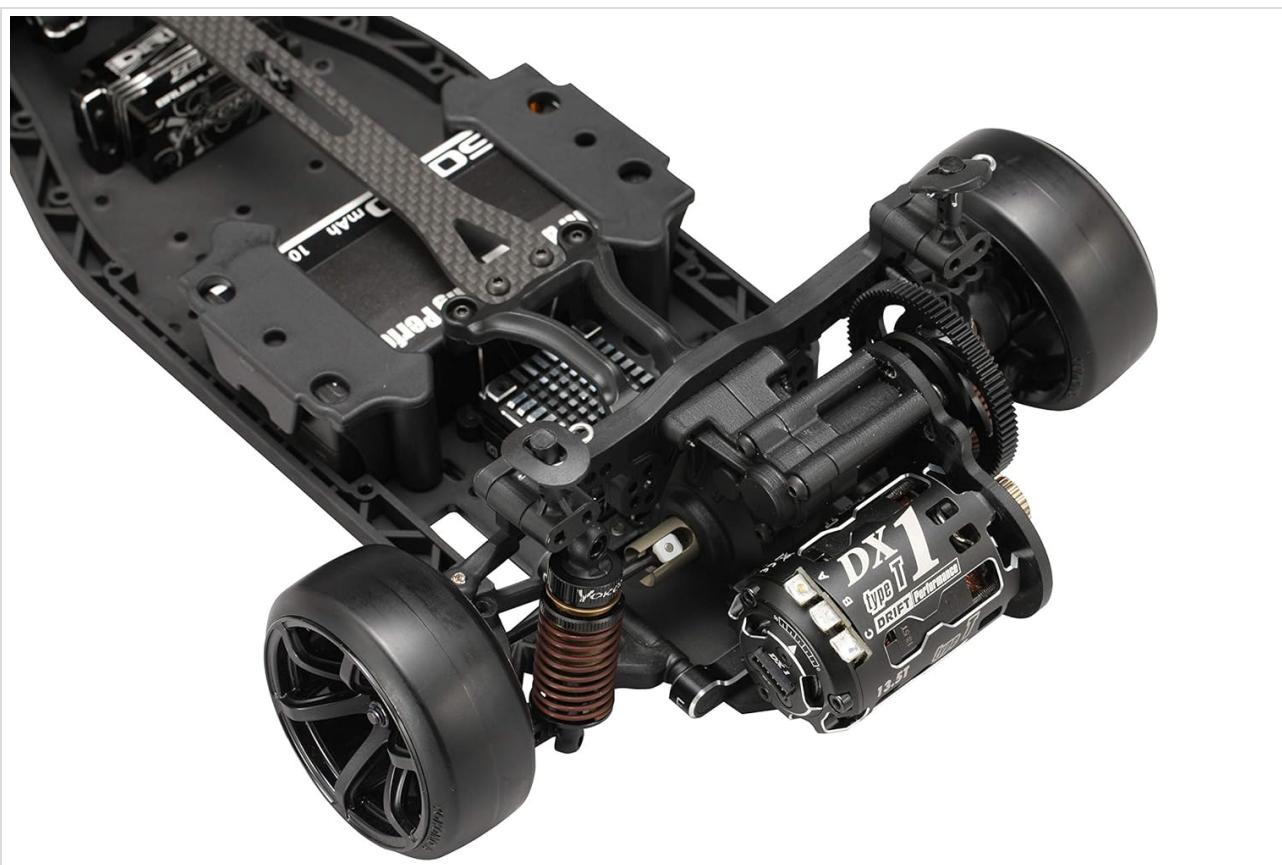


Image Description: A top-down view of the Yokomo YD-2 chassis after the rear motor conversion has been installed. The motor and gearbox assembly are visible at the rear, with the battery and electronics positioned further forward.

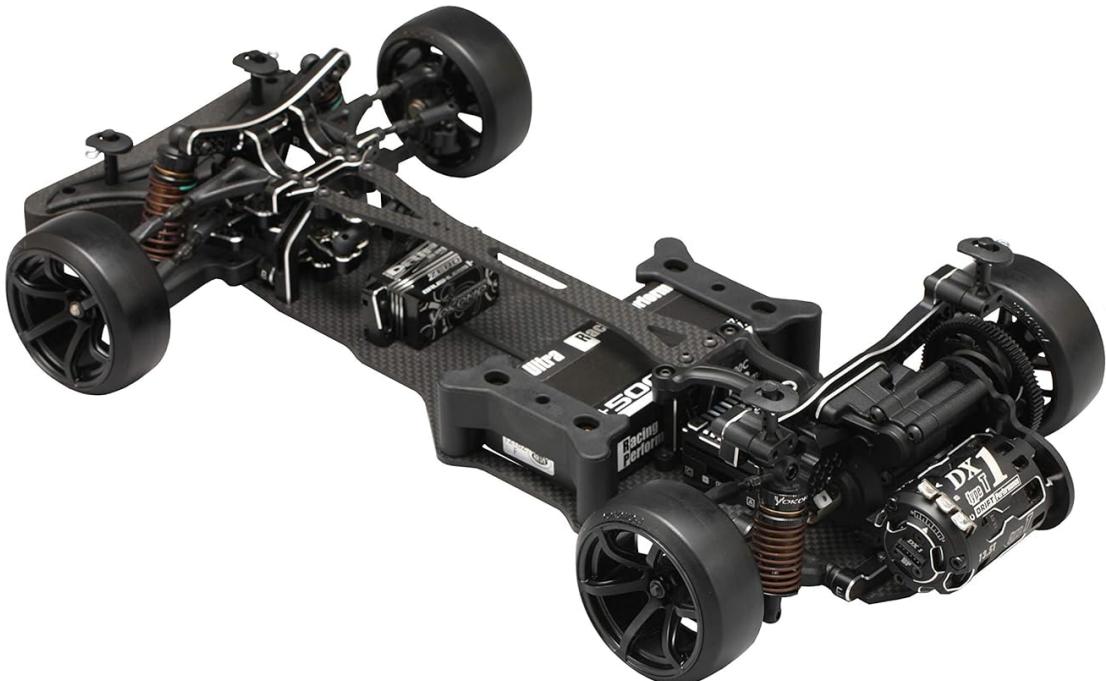


Image Description: A complete view of the Yokomo YD-2 chassis with the rear motor conversion kit installed, showcasing the overall layout and component placement. The rear-mounted motor is a key visual feature.

OPERATING CONSIDERATIONS

The rear motor conversion significantly alters the weight distribution of your YD-2 chassis, leading to increased rear traction. This characteristic is particularly advantageous for drift driving on low-grip surfaces.

- **Motor Height Adjustment:** The included motor mount allows for 6 levels of motor height adjustment. Experiment with different settings to fine-tune the traction and handling characteristics according to the track surface and your driving style. Higher motor positions generally increase weight transfer to the rear, enhancing traction.
- **Chassis Setup:** Due to the altered weight balance, it may be necessary to adjust other chassis settings such as shock oil, spring rates, camber, and toe to achieve optimal performance.
- **Driving Style:** The increased rear traction may require adjustments to your driving technique, particularly in throttle application and steering input, to fully utilize the benefits of the conversion.

MAINTENANCE

Regular maintenance is crucial for the longevity and performance of your RC vehicle and the conversion kit components.

- **Cleaning:** After each use, clean the chassis and conversion components to remove dirt, dust, and debris. Use a soft brush or compressed air.
- **Inspection:** Periodically inspect all screws, fasteners, and moving parts for looseness or wear. Tighten any loose screws and replace worn components as necessary.
- **Lubrication:** Ensure that all gears and bearings are properly lubricated according to the recommendations in your YD-2 chassis manual.
- **Gear Mesh:** Regularly check and adjust the motor's pinion gear mesh with the spur gear to prevent premature wear and ensure smooth power delivery.

TROUBLESHOOTING

This section addresses common issues that may arise after installing the rear motor conversion kit.

- Poor Traction:** If traction is insufficient, ensure the motor height is adjusted correctly. Consider increasing the motor height or adjusting other chassis settings like rear toe-in or shock rebound.
- Unusual Noises:** Check for proper gear mesh between the pinion and spur gear. Inspect all rotating components for obstructions or damage.
- Motor Overheating:** Verify that the gear mesh is not too tight, which can cause excessive friction. Ensure adequate airflow around the motor. Consider using a smaller pinion gear if the motor consistently overheats.
- Unstable Handling:** Re-check all installation steps to ensure components are securely fastened. Adjust chassis settings such as suspension, camber, and toe to compensate for the new weight distribution.

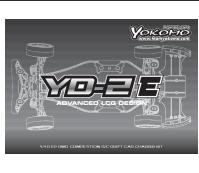
SPECIFICATIONS

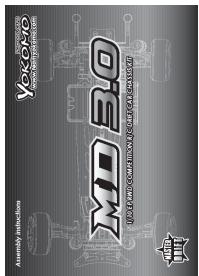
Feature	Specification
Product Dimensions	8 x 4 x 1.5 inches
Item Model Number	Y2-RMC
Weight	2.47 ounces
Manufacturer	Yokomo
UPC	639342166091
Compatibility	All Yokomo YD-2 series kits

WARRANTY AND SUPPORT

Yokomo products are manufactured to high standards. For specific warranty information, please refer to the documentation included with your original Yokomo YD-2 chassis or visit the official Yokomo website. For technical support or inquiries regarding this conversion kit, please contact Yokomo customer service or your authorized dealer.

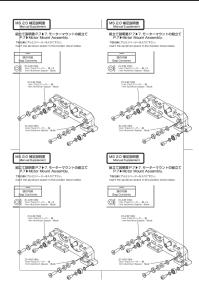
Related Documents - Y2-RMC

	<p>Yokomo Drift Package RTR: RC Drift Car Guide and Optional Parts</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>
	<p>Yokomo YD-2E 1/10 EP RWD Competition RC Drift Car Chassis Kit Assembly Manual</p> <p>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>



[Yokomo 1/10 EP RWD Competition R/C Drift Car Chassis Kit Assembly Instructions](#)

Comprehensive assembly instructions for the Yokomo 1/10 EP RWD Competition R/C Drift Car Chassis Kit (MD2.0/MD3.0), detailing parts, steps, and safety precautions for building your high-performance RC car.



[MS 2.0 Motor Mount Assembly Manual Supplement](#)

Instructions for assembling the MS 2.0 motor mount, detailing the use of ZC-A3610BA 1mm aluminum spacers. This manual supplement provides visual guidance for part installation.



[Yokomo R160/R100 Drift Spec Brushless Speed Controller Manual](#)

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.



[Yokomo MD2.0 1/10 EP RWD Competition R/C Drift Car Chassis Kit Assembly Manual](#)

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.