

Kyosho 30622

Kyosho Optima Mid Vintage Buggy KYO30622 Instruction Manual

Model: KYO30622

INTRODUCTION

Welcome to the world of vintage RC racing with the Kyosho Optima Mid Vintage Buggy KYO30622. This 1/10 scale 4WD electric racing buggy kit is a faithful reproduction of the iconic model that influenced modern racing buggy designs. It combines classic aesthetics with updated mechanics to deliver an authentic and engaging building and driving experience.

The chassis is constructed from durable 6016T6 aluminum alloy, ensuring high rigidity and performance. Key features include a 48-pitch gear system for improved efficiency, adjustable belt tension, and FRP front and rear shock stays. This manual provides essential information for the setup, operation, and maintenance of your Optima Mid Vintage Buggy.



Figure 1: The Kyosho Optima Mid Vintage Buggy KYO30622.

SETUP AND ASSEMBLY

The Kyosho Optima Mid Vintage Buggy is a kit that requires assembly. Please refer to the detailed assembly instructions included in your product packaging for step-by-step guidance. Ensure you have all necessary tools and additional components (motor, electronic speed controller (ESC), servo, radio system, battery, and charger) before beginning assembly.

Key Assembly Considerations:

- **Chassis Construction:** The 6016T6 aluminum alloy main chassis provides a robust foundation. Follow the instructions carefully for proper alignment and fastening.
- **Drivetrain:** The belt-type 4WD system requires precise assembly. Pay close attention to belt tensioning using the integrated tensioner for smooth operation and minimal power loss. The kit includes a 48-pitch pinion and 82T spur gear, compatible with existing Ultima RB7 parts.
- **Suspension:** Assemble the FRP front and rear shock stays and oil-filled shock absorbers according to the manual. Proper shock assembly is crucial for optimal handling.
- **Slipper Clutch:** The reinforced slipper clutch is designed to support powerful brushless motors. Ensure correct assembly and adjustment to protect the drivetrain.
- **Electronics Installation:** Carefully install your chosen motor, ESC, servo, and receiver. Ensure all wiring is neat, secure, and does not interfere with moving parts.



Figure 2: Internal view of the Kyosho Optima Mid chassis, highlighting the drivetrain and electronics layout.

OPERATING INSTRUCTIONS

Before operating your Kyosho Optima Mid Vintage Buggy, ensure all assembly steps are complete and all electronic components are correctly installed and calibrated.

Pre-Run Checks:

- **Battery:** Ensure the battery is fully charged and securely installed.
- **Radio System:** Turn on your transmitter first, then the receiver in the buggy. Verify proper binding and functionality.
- **Steering:** Check that the steering responds correctly to transmitter inputs and that the wheels turn freely without obstruction.
- **Throttle:** Confirm that the throttle operates smoothly and the motor responds as expected.
- **Wheel Nuts:** Ensure all wheel nuts are tightened securely.

Driving Tips:

- **Throttle Control:** Use smooth and progressive throttle inputs, especially on loose surfaces, to maintain traction and control.
- **Steering:** Practice gentle steering inputs. Over-steering can lead to spins or rollovers.
- **Braking:** Apply brakes smoothly to avoid locking up the wheels and losing control.
- **Operating Environment:** Operate the buggy in open areas free from obstacles, people, and pets. Avoid wet conditions or extreme temperatures.



Figure 3: The Kyosho Optima Mid Vintage Buggy demonstrating its off-road capabilities.

MAINTENANCE

Regular maintenance is essential to ensure the longevity and optimal performance of your Kyosho Optima Mid Vintage Buggy.

Post-Run Maintenance:

- **Cleaning:** Remove dirt, dust, and debris from the chassis, suspension, and drivetrain using a soft brush or compressed air.
- **Inspection:** Visually inspect all components for damage, wear, or loose fasteners. Pay close attention to suspension arms, shock absorbers, gears, and wheel hubs.
- **Tires:** Check tires for wear and damage. Ensure they are securely mounted to the wheels.

Periodic Maintenance:

- **Lubrication:** Apply appropriate lubricants to moving parts such as universal joints, bearings, and gear meshes as recommended in the assembly manual.
- **Shock Absorbers:** Check the oil level and condition of the shock absorbers. Refill or replace oil as needed to maintain consistent damping.
- **Slipper Clutch:** Inspect the slipper clutch pads for wear and adjust the slipper tension if necessary.
- **Belt Drive:** Check the condition of the drive belts for wear or damage. Ensure proper belt tension.
- **Battery Care:** Follow the manufacturer's instructions for charging, discharging, and storing your battery to maximize its lifespan and safety.

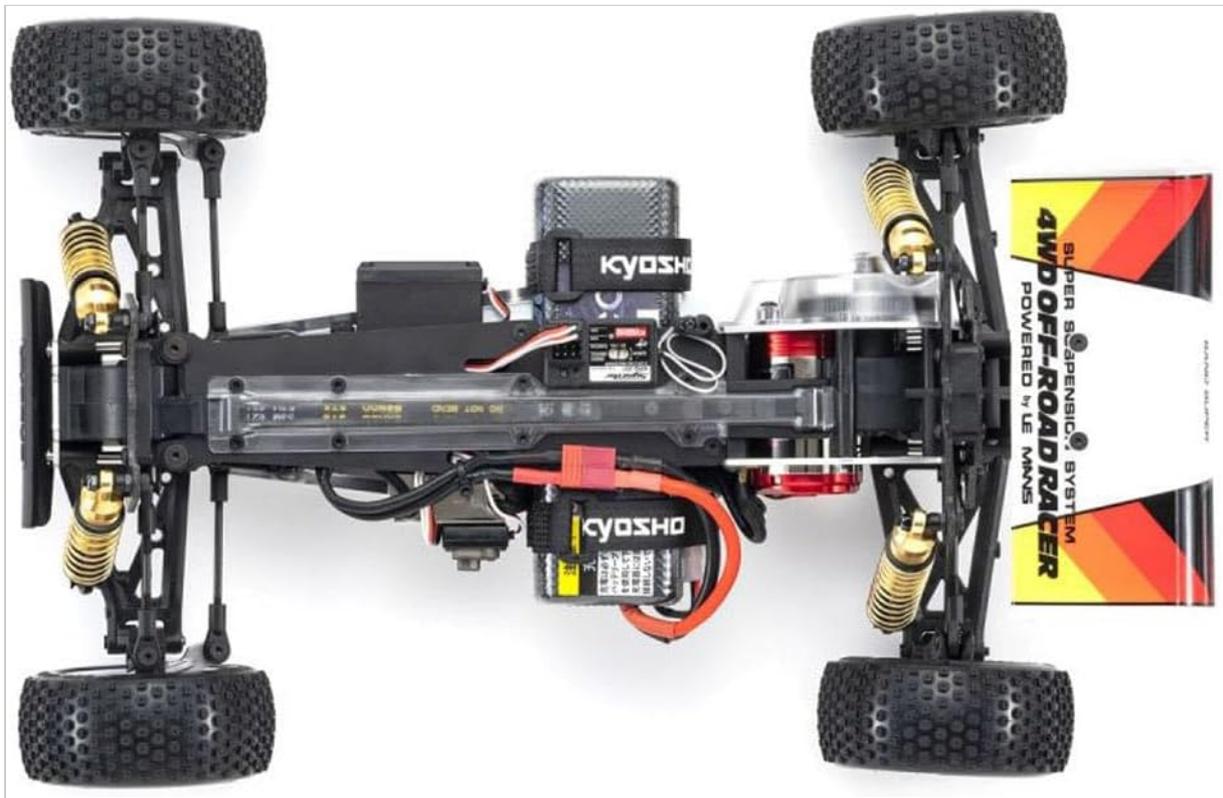


Figure 4: Top-down view of the Kyosho Optima Mid chassis, illustrating the layout of components for maintenance.

TROUBLESHOOTING

This section addresses common issues you might encounter with your Kyosho Optima Mid Vintage Buggy.

Common Issues and Solutions:

- **No Power:**
 - Check if the battery is charged and properly connected.
 - Ensure the ESC and receiver are powered on and correctly wired.
 - Verify the power switch on the ESC is in the 'ON' position.
- **Loss of Control/Erratic Behavior:**
 - Check transmitter battery levels.
 - Ensure the radio system is properly bound and free from interference.
 - Inspect servo connections and functionality.
- **Poor Performance (Slow, Lack of Power):**
 - Check battery charge level.
 - Inspect motor and ESC for overheating.
 - Verify gear mesh and slipper clutch settings.
 - Ensure drive belts are not slipping or damaged.
- **Unusual Noises:**
 - Inspect gears for debris or damage.
 - Check bearings for wear or seizure.
 - Ensure no parts are rubbing against each other.

If you encounter persistent issues not covered here, consult the detailed troubleshooting section in your product's

assembly manual or contact Kyosho customer support.

SPECIFICATIONS

Product Dimensions	4.33 x 21.26 x 13.39 inches
Item Weight	5.08 pounds
ASIN	B09TQZDM1R
Item Model Number	30622
Manufacturer Recommended Age	14 years and up
Manufacturer	Kyosho

WARRANTY AND SUPPORT

Warranty information for the Kyosho Optima Mid Vintage Buggy KYO30622 is typically provided with your purchase documentation. Please retain your proof of purchase for any warranty claims.

For technical support, spare parts, or further assistance, please contact Kyosho directly through their official website or authorized distributors. Protection plans may be available for purchase separately from third-party providers.