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> Kyosho 1/10 Ultima 2WD Off-Road Buggy Kit (Model KYO30625) Instruction Manual

Kyosho 30625

Kyosho 1/10 Ultima 2WD Off-Road Buggy Kit (Model KYO30625) Instruction Manual

Comprehensive guide for assembly, operation, and maintenance.

1. INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your Kyosho 1/10 Ultima 2WD Off-Road Buggy Kit, model KYO30625. The Ultima is a faithfully recreated vintage series model, updated with components compatible with modern power sources, offering a blend of classic design and contemporary performance. The kit features a durable monocoque frame constructed from aircraft-grade A6061 T6 aluminum alloy, a polycarbonate body with a driver cockpit, and full ball bearing specifications to minimize drive loss. It also includes high-durability sintered alloy metal gears, a slipper clutch, and a motor guard for drive system protection, along with a crash-resistant resin rear wing.

2. SAFETY INFORMATION

Read all instructions thoroughly before assembly and operation. Failure to follow safety guidelines may result in injury or damage to the product.

- **Age Recommendation:** This product is recommended for users 14 years and older. Adult supervision is advised for younger users.
- **Assembly:** Keep small parts out of reach of children. Use appropriate tools and wear safety glasses during assembly.
- **Battery Safety:** Always use batteries recommended for RC models. Ensure correct polarity. Disconnect batteries when not in use and store them safely. The kit includes a battery guard to prevent short circuits.
- **Operation Area:** Operate the buggy in open areas, away from people, pets, and obstacles. Avoid public roads, crowded places, and water.
- **Heat:** Motors and electronic components can become hot during operation. Avoid touching them immediately after use.
- **Maintenance:** Perform regular checks and maintenance as described in this manual to ensure safe operation.

3. PACKAGE CONTENTS

Verify that all components are present before beginning assembly. If any parts are missing or damaged, contact Kyosho

customer support.

- Kyosho Ultima 2WD Off-Road Buggy Kit components
- Polycarbonate body shell
- Driver cockpit parts
- Monocoque A6061 T6 aluminum alloy chassis
- Glass reinforced upper deck
- Full ball bearing set (14 bearings)
- Battery guard
- Sintered alloy metal gears (excluding 1st gear, which is nylon)
- Adjustable slipper clutch
- Motor guard
- Crash-resistant resin rear wing
- Multi-pin block pattern rear tires
- Front tires
- Wheels
- Assembly hardware (screws, nuts, washers, e-clips, etc.)
- Decal sheet
- Instruction manual

Items Required for Completion (Sold Separately):

- 2-channel radio system (transmitter and receiver)
- Steering servo
- Electronic Speed Controller (ESC)
- 540-size electric motor
- Battery pack (e.g., 7.2V NiMH or 2S LiPo)
- Battery charger
- Polycarbonate paint for body
- Tools for assembly (screwdrivers, pliers, hobby knife, etc.)

4. ASSEMBLY INSTRUCTIONS

Follow these steps carefully for proper assembly. Refer to the included diagrams for visual guidance.

4.1 Chassis Construction

Begin by assembling the monocoque A6061 T6 aluminum alloy chassis. Ensure all connections are secure. The glass-reinforced upper deck provides additional rigidity.



Figure 4.1: View of the Kyosho Ultima chassis from the side, showing the monocoque aluminum frame and internal components.



Figure 4.2: Top-down view of the Kyosho Ultima chassis, highlighting the layout of the internal components and the glass-reinforced upper deck.

4.2 Suspension System

Assemble the front double wishbone suspension and the rear trailing arm suspension. Install the oil-filled shock absorbers. Adjust the suspension settings according to your driving preferences and terrain.



Figure 4.3: Close-up view of the front suspension components, including the double wishbone arms and red-anodized shock absorbers.



Figure 4.4: Individual shock absorbers and suspension mounts, showing the components for the vehicle's damping system.

4.3 Drivetrain Assembly

Install the sintered alloy metal gears into the gearbox. The 1st gear is nylon. Assemble the adjustable slipper clutch and ensure smooth operation. Mount the motor guard to protect the drive system.

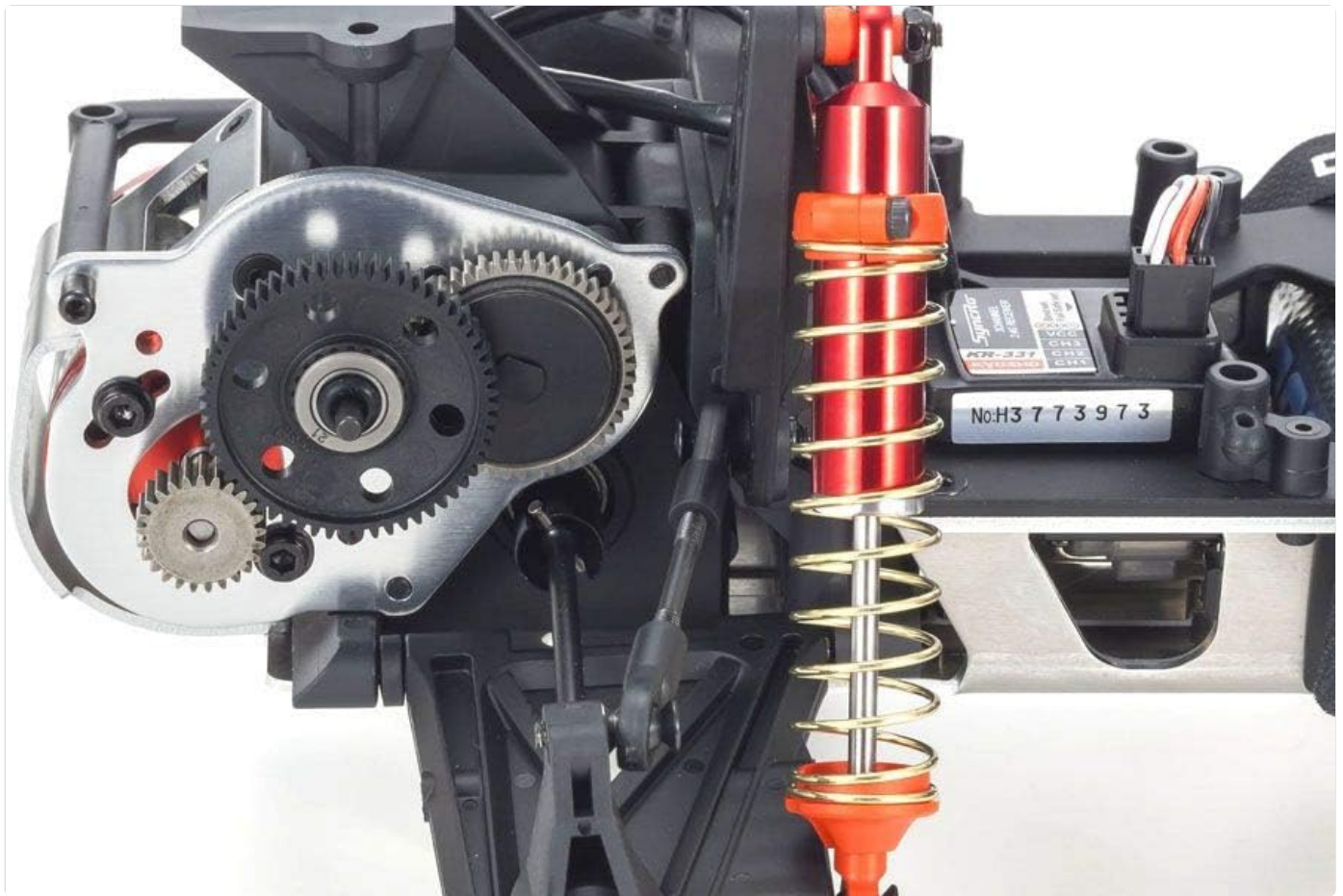


Figure 4.5: Various metal gears used in the Kyosho Ultima's drivetrain, including spur gears and differential gears.



Figure 4.6: Detailed view of the gearbox assembly and motor mounting area, showing the internal gears and shock absorber connection.



Figure 4.7: Rear view of the Kyosho Ultima, showcasing the motor, motor guard, and the mounting points for the rear wing.

4.4 Wheels and Tires

Mount the multi-pin block pattern rear tires and front tires onto the wheels. Ensure they are securely attached. The tires are designed for optimal performance on off-road tracks.



Figure 4.8: The white wheels and black tires for the Kyosho Ultima, including both the ribbed front tires and the knobby rear tires.

4.5 Body and Electronics Installation

Paint the polycarbonate body shell according to your preference. Apply the included decals. Install your chosen radio system, steering servo, ESC, and motor. Secure the battery pack using the provided battery guard.



Figure 4.9: The fully assembled Kyosho Ultima 2WD Off-Road Buggy, showcasing its classic design and livery.

5. OPERATING INSTRUCTIONS

Once assembled and equipped with electronics, your Kyosho Ultima is ready for operation. Ensure all connections are secure and batteries are fully charged before each use.

5.1 Pre-Run Checklist

- Check battery charge levels for both the buggy and the transmitter.
- Ensure all screws and fasteners are tight.
- Verify steering and throttle functions are correct and responsive.
- Inspect tires for damage and proper inflation (if applicable).
- Confirm the body shell is securely mounted.

5.2 Basic Controls

- **Steering:** Use the steering wheel on your transmitter to turn the buggy left or right.
- **Throttle:** Pull the trigger on your transmitter to accelerate forward. Push the trigger to brake or reverse.
- **Speed Control:** Adjust the throttle trim on your transmitter for fine-tuning speed, or use the ESC's programming features for advanced settings.

5.3 Post-Run Procedures

- Turn off the buggy's power switch, then the transmitter.
- Disconnect and remove the battery pack from the buggy.
- Clean the buggy of dirt and debris.
- Inspect for any damage or loose parts.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Kyosho Ultima.

- **Cleaning:** After each run, clean dirt and dust from the chassis, suspension, and drivetrain using a soft brush or compressed air.
- **Inspections:** Periodically check all screws, nuts, and bolts for tightness. Inspect suspension components for wear or

damage.

- **Lubrication:** Apply appropriate RC-specific grease or oil to moving parts, such as gears and bearings, as needed. Avoid over-lubrication.
- **Bearings:** The full ball bearing specifications minimize drive loss. Clean and re-lubricate bearings periodically, or replace them if they become rough.
- **Shocks:** Check the oil-filled shock absorbers for leaks and proper damping action. Refill or replace shock oil as necessary.
- **Tires:** Inspect tires for wear, cracks, or punctures. Replace worn tires for optimal traction.
- **Electronics:** Keep electronic components clean and dry. Ensure wiring is secure and free from damage.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your Kyosho Ultima.

Problem	Possible Cause	Solution
Buggy does not respond to transmitter.	Low battery in buggy or transmitter. Transmitter and receiver not bound. Power switch off. Loose wiring connection.	Charge/replace batteries. Re-bind transmitter and receiver (refer to radio system manual). Turn on power switches. Check and secure all wiring.
Poor steering response.	Steering servo issue. Loose steering linkages. Damaged front suspension components.	Check servo operation; replace if faulty. Tighten steering linkages. Inspect and replace damaged parts.
Motor runs but wheels do not turn.	Slipper clutch too loose. Damaged gears in gearbox. Loose wheel nuts.	Adjust slipper clutch tightness. Inspect and replace damaged gears. Tighten wheel nuts.
Reduced run time or power.	Battery not fully charged or old. Motor overheating. Excessive friction in drivetrain.	Charge battery fully; consider replacing old batteries. Allow motor to cool; check gearing. Inspect and lubricate drivetrain components.

8. SPECIFICATIONS

Feature	Detail
Product Dimensions	21.1 x 13.2 x 4.2 inches
Item Weight	3.31 pounds
ASIN	B07XZD6DTW
Item Model Number	30625
Manufacturer Recommended Age	14 years and up

Feature	Detail
Manufacturer	Kyosho
Chassis	Monocoque A6061 T6 aluminum alloy, glass reinforced upper deck
Drive	Rear wheel drive (2WD)
Gearbox	Sintered metal gears (except 1st gear), adjustable slipper clutch
Body	Molded polycarbonate with driver cockpit
Rear Wing	Resin construction, two height settings, adjustable angle (3° to 6°)
Bearings	Full ball bearing specifications (14 bearings)
Battery Protection	Equipped with battery guard

9. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact Kyosho America directly. Keep your proof of purchase for any warranty claims.

Kyosho America Contact Information:

- Refer to the official Kyosho America website for the most current contact details.
- Online support resources and FAQs may also be available.

This product is a kit and requires assembly and additional components to operate. The warranty typically covers manufacturing defects in the kit components themselves, not issues arising from incorrect assembly, use of incompatible parts, or normal wear and tear.

ASK A QUESTION ABOUT THIS MANUAL

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