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Kyosho KB10 MAD Wagon VE 3S RC Car Instruction Manual

Brand: Kyosho | Model: KB10 MAD Wagon VE 3S

1. INTRODUCTION AND OVERVIEW

The Kyosho KB10 MAD Wagon VE 3S is a high-performance 1/10 scale electric Ready-to-Run (RTR) off-road vehicle. It features a newly designed 4WD chassis compatible with 3S (11.1V) high-power lithium polymer (LiPo) batteries, paired with a powerful brushless motor and speed controller. The aluminum main chassis incorporates front/rear blocks with a split frame and double wishbone suspension, driving all-terrain 2.8-inch wheels and tires. Designed for exceptional driving performance and durability, this model is equipped with 22 ball bearings as standard for superior drive efficiency and lightweight resin telescopic universal shafts on all four wheels to reduce drive loss. A wheelie bar is fitted at the rear to prevent flipping during sudden acceleration.



Figure 1.1: The Kyosho KB10 MAD Wagon VE 3S RC Car, showcasing its robust design and included remote control.

2. WHAT'S IN THE BOX

Your Kyosho KB10 MAD Wagon VE 3S package includes the following components:

- Pre-assembled chassis
- Painted body
- RC system with pistol grip radio (Syncro KT-231P + transmitter)
- Powerful brushless motor unit
- Lightweight resin telescopic universal shafts (pre-installed)
- Wheelie bar (pre-installed)
- 2.8 inch tires and wheels (pre-installed)

Note: Motor battery, charger, and 4 x AA batteries for the transmitter are sold separately and are required for operation.



Figure 2.1: Contents of the Kyosho KB10 MAD Wagon VE 3S package, including the RC car and its pistol grip remote control.

3. SETUP

Your Kyosho KB10 MAD Wagon VE 3S is a Ready-to-Run (RTR) model, meaning most components are pre-assembled. Follow these steps to prepare your vehicle for its first use:

1. **Install Transmitter Batteries:** Open the battery compartment on the Syncro KT-231P + transmitter and insert 4 x AA batteries (not included). Ensure correct polarity.
2. **Charge and Install Motor Battery:** Fully charge a compatible 3S (11.1V) LiPo motor battery using an appropriate charger (both sold separately). Once charged, securely install the battery into the vehicle's battery tray and connect it to the ESC.
3. **Power On:** Turn on the transmitter first, then power on the vehicle's ESC.
4. **Steering Trim Adjustment:** Before driving, ensure the steering is centered. If the wheels are not straight, use the steering trim dial on the transmitter to adjust until they are.



Figure 3.1: View of the KB10 MAD Wagon VE 3S chassis with a LiPo battery securely installed in the battery tray.

Video 3.1: A detailed look at the chassis and internal components of a similar RC buggy, highlighting key features relevant to setup and maintenance.

4. OPERATING INSTRUCTIONS

The Kyosho KB10 MAD Wagon VE 3S is designed for thrilling off-road action. Familiarize yourself with the controls and the vehicle's capabilities before aggressive driving.

1. **Starting the Vehicle:** After completing the setup, place the vehicle on a flat surface. Use the pistol grip transmitter to control acceleration (trigger pull) and braking/reverse (trigger push). Steering is controlled by turning the wheel on the transmitter.
2. **Driving on Various Terrains:** The shaft-type 4WD and double wishbone suspension provide excellent traction and handling on diverse off-road surfaces. The 2.8-inch tires are suitable for various conditions.
3. **High-Speed Operation:** The powerful brushless motor allows the vehicle to reach speeds up to 75 km/h. Always operate in open areas free from obstacles and people.
4. **Using the Wheelie Bar:** The integrated wheelie bar helps prevent the vehicle from flipping backward during rapid acceleration, especially on high-traction surfaces.
5. **Adjusting Gear Ratios:** For optimal performance on different surfaces (e.g., on-road vs. off-road), you can select a wide range of gear ratios by changing the standard gears included in the kit.



Figure 4.1: The KB10 MAD Wagon VE 3S demonstrating its off-road capability on challenging rocky terrain.

Video 4.1: An RC car performing stunts and driving in a skate park, illustrating the dynamic operation of a high-performance RC vehicle.

5. MAINTENANCE

Regular maintenance will ensure the longevity and optimal performance of your Kyosho KB10 MAD Wagon VE 3S.

- **Post-Run Inspection:** After each use, inspect the vehicle for any loose screws, damaged parts, or debris accumulation.
- **Cleanliness:** Keep the chassis, motor, and suspension components clean. Remove dirt, dust, and moisture to prevent corrosion and wear.
- **Ball Bearings:** The vehicle is equipped with 22 ball bearings. Periodically check them for smooth operation and lubricate if necessary. Replace any seized or rough bearings.
- **Universal Shafts:** Inspect the lightweight resin telescopic universal shafts for any signs of wear or damage. Ensure they move freely without excessive play.
- **Gears:** Check the gears for wear and proper mesh. Adjust or replace as needed, especially if you frequently change gear ratios.
- **Shocks:** Inspect the shocks for leaks or damage. Ensure smooth compression and rebound.



Figure 5.1: Side view of the KB10 MAD Wagon VE 3S chassis, highlighting the robust suspension and drivetrain components for maintenance checks.

6. TROUBLESHOOTING

If you encounter any issues with your Kyosho KB10 MAD Wagon VE 3S, please refer to the following general troubleshooting tips:

- **Vehicle Not Responding:** Ensure both the transmitter and vehicle are powered on. Check battery levels in both the transmitter (4 x AA) and the vehicle (3S LiPo). Verify that the transmitter and receiver are properly bound.
- **Loss of Control/Erratic Behavior:** Check for radio interference. Ensure all connections are secure. Inspect steering linkages and servo for damage or obstruction.
- **Reduced Performance:** Check the motor battery charge level. Inspect the motor and ESC for overheating. Examine gears for wear or debris.
- **Unusual Noises:** This often indicates an issue with gears, bearings, or the drivetrain. Stop operation immediately and inspect all moving parts for damage or foreign objects.

For more detailed troubleshooting or persistent issues, please contact Kyosho customer support or visit their official website for service information.

7. SPECIFICATIONS

Feature	Specification
Brand	Kyosho
Model Name	Mad Wagon VE
Model Number	34701T1
Scale	1/10
Dimensions (L x W x H)	18.9 x 13.78 x 7.87 inches (472mm x 350mm x 198mm)
Power Source	Battery Powered (3S LiPo recommended)
Motor Type	Brushless
Drive System	Shaft-type 4WD
Suspension	Double Wishbone
Bearings	22 Ball Bearings
Tires & Wheels	2.8 inch (compatible with standard 1/10 scale 2.8 inch)
Material Type	Plastic
Minimum Age	168 months (14 years)
Assembly Required	No (RTR)

8. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts, please refer to the official Kyosho website or contact their customer service department directly. Keep your purchase receipt as proof of purchase for any warranty claims.