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## Kyosho KT-531P

# Kyosho KT-531P Transmitter Instruction Manual

Model: KT-531P (Part No. 82005)

## 1. INTRODUCTION

The Kyosho KT-531P is a 2.4GHz radio transmitter designed as a replacement or upgrade for Kyosho Mini-Z RWD and FWD series vehicles. This transmitter provides precise control over your RC vehicle, featuring essential adjustments for optimal performance. It includes steering and throttle trim functions, as well as dual rate adjustment for steering angle, allowing for fine-tuning of your vehicle's handling characteristics. Additionally, it offers control over the flashing speed of optional LEDs, enhancing customization.



**Figure 1:** Kyosho KT-531P 2.4GHz Radio Transmitter. This image displays the Kyosho KT-531P 2.4GHz radio transmitter from a front-right angle. The black plastic casing features a textured grip for the hand. Key components visible include the large steering wheel on the right, the throttle trigger below it, and several small adjustment dials and switches on the top panel, including the Kyosho logo and 'Syncro KT-531P' branding on the base.

## 2. SETUP

## 2.1 Battery Installation

The KT-531P transmitter requires four (4) AAA batteries (not included). Follow these steps for proper installation:

1. Locate the battery compartment cover on the bottom of the transmitter handle.
2. Slide the cover open or remove it according to the markings.
3. Insert four new AAA batteries, ensuring the correct polarity (+/-) as indicated inside the compartment.
4. Replace the battery compartment cover securely.

**Note:** Always use fresh batteries and remove them if the transmitter will not be used for an extended period to prevent leakage.

## 2.2 Binding Procedure

To establish communication between the transmitter and your Mini-Z receiver, a binding process is required. Refer to your Mini-Z vehicle's receiver manual for specific binding instructions, as the procedure may vary slightly.

Generally, the steps involve:

1. Ensure both the transmitter and receiver are powered off.
2. Place the receiver into binding mode (usually by pressing a bind button while powering on, or by inserting a bind plug).
3. Power on the transmitter while holding its bind button (if applicable) or following its specific binding sequence.
4. Observe the LED indicators on both the transmitter and receiver. A solid light typically indicates a successful bind.
5. Turn off both devices, then power them on normally to confirm the connection.

## 3. OPERATING THE TRANSMITTER

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### 3.1 Basic Controls

- **Steering Wheel:** Rotate left or right to control the vehicle's steering.
- **Throttle Trigger:** Pull the trigger towards you for forward movement. Push the trigger away from you for braking or reverse.

### 3.2 Trim Adjustments

Trim controls allow for fine adjustments to steering and throttle to ensure the vehicle tracks straight and stops neutrally when the controls are centered.

- **Steering Trim (ST.TRIM):** Adjust this dial to make the vehicle drive straight when the steering wheel is centered. If the vehicle pulls left, adjust the trim to the right, and vice-versa.
- **Throttle Trim (TH.TRIM):** Adjust this dial to ensure the vehicle remains stationary when the throttle trigger is in the neutral position. If the vehicle creeps forward or backward, adjust the trim until it stops.

### 3.3 Dual Rate Adjustment

**Steering Dual Rate (ST.D/R):** This dial adjusts the maximum steering angle. Turning the dial clockwise increases the maximum steering throw, providing more aggressive steering. Turning it counter-clockwise reduces the maximum steering throw, making the steering less sensitive and more stable.

### 3.4 LED Control

The KT-531P transmitter can control the flashing speed of optional LEDs connected to compatible Mini-Z vehicles. Refer to your vehicle's manual for specific instructions on connecting and controlling these LEDs via the transmitter's designated switch or dial.

## 4. MAINTENANCE

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Proper maintenance ensures the longevity and reliable operation of your Kyosho KT-531P transmitter.

- **Cleaning:** Use a soft, dry cloth to wipe down the transmitter after each use. Avoid using solvents or harsh chemicals, as these can damage the plastic. For stubborn dirt, a slightly damp cloth can be used, followed by immediate drying.
- **Storage:** Store the transmitter in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods to prevent corrosion from battery leakage.
- **Battery Care:** Always use high-quality batteries. Replace all batteries at the same time. Do not mix old and new batteries or different types of batteries.
- **Inspection:** Periodically check all switches, dials, and the antenna for any signs of damage or wear. Ensure the steering wheel and throttle trigger move freely without obstruction.

## 5. TROUBLESHOOTING

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If you encounter issues with your KT-531P transmitter, refer to the following common problems and solutions:

- **No Power:**
  - Check if batteries are installed correctly with the correct polarity.
  - Replace with fresh batteries.
  - Ensure the power switch is in the 'ON' position.
- **No Response from Vehicle / Binding Failure:**
  - Ensure both transmitter and receiver batteries are fully charged or fresh.
  - Repeat the binding procedure carefully as outlined in Section 2.2 and your vehicle's manual.
  - Ensure the transmitter and receiver are within range and not obstructed by large metal objects.
  - Check for interference from other 2.4GHz devices in the vicinity.
- **Erratic Control / Unresponsive Steering or Throttle:**
  - Check for low battery levels in both the transmitter and vehicle.
  - Ensure all connections in the vehicle (servo, ESC) are secure.
  - Verify that the trim settings are not excessively off-center. Reset trims to neutral and re-adjust.
  - If the issue persists, the internal potentiometers for steering or throttle may be worn. This typically requires professional service or replacement of the transmitter.
- **Vehicle Does Not Reverse:**
  - Ensure the throttle trim is correctly set to neutral. An incorrect trim setting can prevent reverse engagement.
  - Check the Electronic Speed Controller (ESC) settings in your vehicle. Some ESCs have programmable reverse functions that might be disabled or set incorrectly. Refer to your ESC manual.
  - If the issue is specific to the transmitter and other vehicles also exhibit this, the throttle trigger mechanism or internal components may be faulty, requiring repair or replacement.

## 6. SPECIFICATIONS

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Feature	Specification
Model Number	K.82005

Feature	Specification
Product Dimensions	10.39 x 8.5 x 3.46 inches
Item Weight	2.46 ounces
Manufacturer	Kyosho
Recommended Age	14 months - 9 years
Frequency	2.4 GHz
Compatibility	Kyosho Mini-Z RWD & FWD series

## 7. WARRANTY AND SUPPORT

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Kyosho products are manufactured to high standards. For specific warranty information, please refer to the documentation included with your purchase or visit the official Kyosho website. For technical support, spare parts, or service inquiries, please contact Kyosho customer service or visit their official brand store.

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