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## Tactic TACL0624

# TR624 6-Channel SLT 2.4Ghz Receiver (Rx) Instruction Manual

Brand: Tactic | Model: TACL0624

## 1. INTRODUCTION

The Tactic TR624 is a 6-channel SLT 2.4Ghz receiver designed for remote-controlled models. Utilizing Secure Link Technology (SLT), this receiver ensures a reliable connection by encoding its signal and employing true frequency hopping technology. This design minimizes interference, providing a secure link between your transmitter and model.

This full-range flight receiver features a 1.2 inch (30 mm) antenna, optimized for reception across various model types, from electric park fliers to larger glow-powered models. A user-settable throttle fail-safe mechanism is integrated to automatically reduce throttle to a pre-selected setting if the transmitter signal is lost, thereby protecting the model.



**Figure 1:** A close-up view of the Tactic TR624 6-Channel SLT 2.4Ghz Receiver. The black rectangular unit features the 'TACTIC TR624 6-CHANNEL RECEIVER SLT' logo on the left side. On the right, six channels are labeled CH1 through CH6, along with a BAT (battery) port, each with corresponding pin connectors. A small 'LINK' button and LED indicator are visible near the top left. A single antenna wire extends from the left side of the receiver.

## 2. KEY FEATURES

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- Receives signals for up to six servos, allowing for comprehensive control of your model.
- Lightweight design, weighing only 0.28 oz (8 g), suitable for various aircraft sizes.
- Secure Link Technology (SLT) establishes an unbreakable bond between the receiver and transmitter, enhancing flight confidence.
- Easy binding process: a single button press links the TR624 to the transmitter's unique, coded signal.
- Integrated user-settable throttle fail-safe to protect against signal loss.

## 3. SETUP

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### 3.1 Binding Procedure

Binding is the process of electronically linking the receiver to your specific SLT transmitter. This ensures that the receiver only responds to commands from your transmitter.

1. Ensure your transmitter is powered off.
2. Connect a fully charged battery to the receiver's BAT port or an ESC with BEC to any channel port. The receiver's LED will begin to flash rapidly.
3. Press and hold the 'LINK' button on the receiver.
4. While holding the 'LINK' button, power on your SLT transmitter.
5. Continue to hold the 'LINK' button until the receiver's LED turns solid, indicating a successful bind.
6. Release the 'LINK' button.
7. Power off both the transmitter and receiver.
8. Power on the transmitter first, then the receiver. The LED should illuminate solid, confirming the bind.

### 3.2 Installation

Proper installation is crucial for optimal performance and reliability.

- Mount the receiver securely within your model using double-sided foam tape or hook-and-loop fasteners to absorb vibrations.
- Position the antenna away from large metallic objects, carbon fiber, or other conductive materials that could shield the signal. The antenna should be as straight as possible and oriented to maximize signal reception.
- Connect your servos to the corresponding channel ports (CH1-CH6) and the power source (battery or ESC with BEC) to the BAT port or any available channel port. Ensure correct polarity.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Powering On and Pre-Flight Check

1. Always power on your transmitter first.
2. Then, connect the battery to your model, powering on the receiver. The receiver's LED should be solid, indicating a successful link.
3. Perform a range check according to your transmitter's instructions to ensure adequate signal strength.
4. Verify that all control surfaces and functions respond correctly to transmitter inputs.

## 4.2 Fail-Safe Function

The TR624 receiver includes a programmable fail-safe feature. In the event of signal loss, the receiver will automatically move the throttle channel to a user-defined position, typically idle or off, to prevent fly-aways or uncontrolled operation. Other channels will hold their last commanded position.

To set the fail-safe position:

1. Ensure the receiver is bound to the transmitter and both are powered on.
2. Move the throttle stick on your transmitter to the desired fail-safe position (e.g., low throttle).
3. Consult your transmitter's manual for specific instructions on how to activate and save the fail-safe settings for SLT receivers.

## 5. MAINTENANCE

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The TR624 receiver is a robust electronic component, but proper care can extend its lifespan and ensure reliable operation.

- Keep the receiver clean and free from dust, dirt, and moisture.
- Avoid exposing the receiver to extreme temperatures or direct sunlight for prolonged periods.
- Regularly inspect the antenna wire for any damage, kinks, or cuts. A damaged antenna can significantly reduce range and reliability.
- Ensure all servo and power connections are secure and free from corrosion.
- Do not attempt to open the receiver casing, as this may void the warranty and expose sensitive electronics to damage.

## 6. TROUBLESHOOTING

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- **Receiver LED not solid after powering on:** This indicates the receiver is not bound or has lost its link. Re-perform the binding procedure. Ensure the transmitter is powered on first.
- **No response from servos:** Check all connections, including power to the receiver and servo connections to the correct channels. Verify the receiver is bound and receiving power. Test servos individually if possible.
- **Reduced range or intermittent control:** Ensure the antenna is properly positioned and undamaged. Check for sources of interference near the model or transmitter. Verify battery voltage for both transmitter and receiver.
- **Fail-safe not activating:** Confirm that the fail-safe settings have been correctly programmed and saved according to your transmitter's manual.
- **Receiver gets hot:** This could indicate an overcurrent situation or a faulty component. Disconnect power immediately and investigate the cause. Ensure the input voltage is within the specified range.

## 7. SPECIFICATIONS

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Specification	Value
Channels	6
Receiving Frequencies	2.403 - 2.480 GHz

Specification	Value
Modulation	FHSS spread spectrum
Input Power Requirement	4.0-6.0V (Four AA alkaline, NiCd or NiMH cells)
Fail Safe	Programmable; reduces throttle to a user-selected setting
Dimensions (L x W x H)	1.77 x 0.98 x 0.50 in (45 x 25 x 13 mm)
Weight	0.28 oz (8 g)
Antenna	Internal (1.2 in / 30 mm)
Product Dimensions	5.38 x 3.63 x 0.75 inches (packaging)
Item Weight	0.8 ounces (packaging)
Model Number	TACL0624
Manufacturer Recommended Age	15 years and up

## 8. WARRANTY AND SUPPORT

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### 8.1 Warranty Information

The Tactic TR624 6-Channel SLT 2.4Ghz Receiver is covered by a **1-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from misuse, abuse, modification, improper installation, accidents, or unauthorized repairs. Please retain your proof of purchase for warranty claims.

### 8.2 Technical Support

For technical assistance, troubleshooting, or warranty inquiries, please refer to the official Tactic brand website or contact their customer support channels. Detailed contact information can typically be found on the product packaging or the manufacturer's website.