TACTIC™
PURE RELIABLE 2.4
TTX200

TTX200

2.4GHZ RADIO CONTROL SYSTEM INSTRUCTION MANUAL

SLT™
SECURE LINK TECHNOLOGY

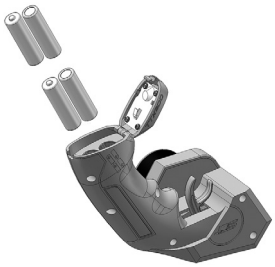
Thank you for making the Tactic TTX200 2.4GHz SLT system your choice for radio control! This system uses modern 2.4GHz spread spectrum technology – an innovation which eliminates the need to select a channel and provides interference-free control of R/C models.

For safe operation and best results, it's strongly recommended to read this manual in its entirety before use! Also read and understand the instructions included with the model. Damage resulting from misuse or modification will void the warranty.

FEATURES

- 2.4GHz Spread Spectrum Technology
- Transmitter can bind to multiple receivers
- Failsafe function
- Steering and throttle trim push-buttons
- Power LED with low battery warning indication
- Steering end point adjustment

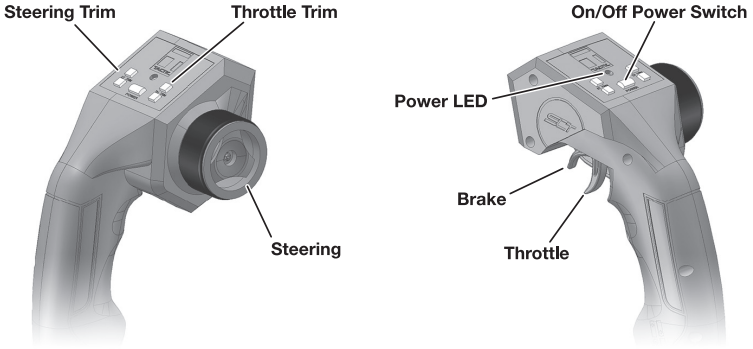
TRANSMITTER



The transmitter (Tx) requires four “AA” batteries. Non-rechargeable alkaline or rechargeable nickel-cadmium (NiCd) or nickel-metal hydride (NiMH) cells can be used. Do not mix old and new cells, or mix alkaline cells with NiCd or NiMH cells, etc. This radio does not include a charge jack for rechargeable cells. A separate charger will be necessary for NiCd and NiMH “AA” cells.

Press the lever at the base of the handle to open the battery door. Insert the four cells in the orientation as depicted on the back side of the Tx handle.

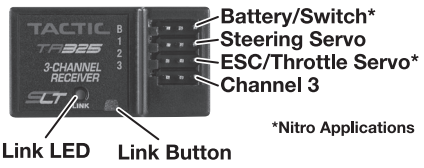
IMPORTANT: Do not operate an R/C model with weak batteries as it could result in reduced range and/or possible loss of control!



Slide the power switch to the right to turn on the Tx. The red LED should illuminate. If not, turn the power switch off and re-check the installation of the batteries. If the LED blinks, the batteries are weak and should be replaced.

INSTALLING THE TR325 RECEIVER

Mount the receiver (Rx) as specified in the model’s instructions. As a guideline, mount in a secure location using double-sided tape. Route the servo wires so not to interfere with any moving parts. For boat applications it’s highly recommended to wrap the Rx in a balloon or enclose it inside a water-tight box.



NITRO VEHICLES

One servo (not included) will be required for steering control, and one for throttle control. Connect the servos as per the above diagram. Also, a separate battery will be required to supply power to the receiver. The TR325 receiver can accept 4.0-6.0V on the input. Alkaline cells, or pre-assembled 4.8V NiCd or NiMH batteries can be used. Make sure the battery is at full power before use. Connect the

battery to the “B” battery slot on the Rx. See the ACCESSORIES section at the end of this manual for a list of optional servos and batteries.

ELECTRIC VEHICLES

One servo will be required for steering control, and an electronic speed control (ESC) will be required for throttle control to be connected to the throttle channel.

LINK THE TR325 RECEIVER TO THE TRANSMITTER

For proper operation of the 2.4GHz transmitter and receiver set it’s necessary to “link” them together electronically. This ensures sole communication between the two and prevents other transmitters from being able to control the receiver. To bind the Tx and Rx:

IMPORTANT: If using an ESC make sure it is not connected to the motor inside the vehicle until all radio setup procedures are finished.

1. Turn on the TTX200 transmitter
2. Connect power to the receiver, either with a separate battery or through the ESC (refer to the ESC’s instruction manual).
3. If the receiver’s LED flashed once and then stays on the Rx is already linked to the Tx and skip to the next section. Otherwise, with a small screwdriver, pencil tip, etc., press the receiver’s LINK button until the LED flashes once then turns off.
4. Release the LINK button.
5. If linking is successful the LED will turn on constantly. If not, repeat steps 1-5.
6. Proceed to the next section to check for proper Tx / Rx functionality.

ADJUSTING TTX200 CONTROLS

TRIMS

The center point of the throttle and steering channels can be finely adjusted as desired to achieve the best control of the model. Press the two ST TRIM buttons to trim the steering servo. Press the two TH TRIM buttons to trim the throttle (servo or ESC). The center position of each channel will be identified when the LED flashes briefly while the respective trim is being adjusted.

CHANNEL REVERSING

The throttle and steering channels can be set to operate in the reverse direction if needed for proper control of the model.

1. Steering: With the transmitter turned off, press and hold the top ST TRIM button, then turn the power switch on. The LED should quickly flash once, then turn off. Release the ST TRIM button. The LED should turn on, to confirm the operation of the steering channel has been reversed.

2. Throttle: With the transmitter turned off, press and hold the top TH TRIM button, then turn the power switch on. The LED should quickly flash once, then turn off. Release the TH TRIM button. The LED should turn on, to confirm the operation of the throttle channel has been reversed.

STEERING END POINT ADJUSTMENT

The maximum limits of rotation for the steering channel can be adjusted if desired, on both ends of the rotation.

1. Steering left EPA: Turn the power switch on. Turn the wheel to the full left direction and hold. Press the ST TRIM pushbuttons as needed to shorten or lengthen the travel limit as desired.

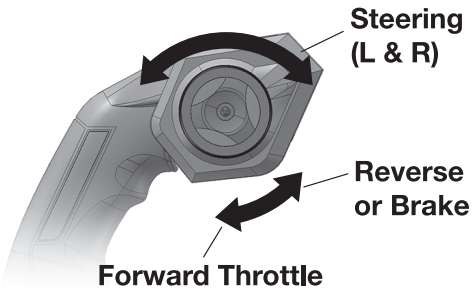
2. Steering right EPA: Turn the power switch on. Turn the wheel to the full right direction and hold. Press the ST TRIM pushbuttons as needed to shorten or lengthen the travel limit as desired.

SYSTEM CHECK

Turn on the Tx, then the Rx. Make sure the servos operate according to the movement of the Tx controls.

STEERING

Turn the steering wheel left and right. Make sure there are no obstructions with the steering servo's movement, and the servo moves in the proper direction. If the steering wheel is turned to the right but the model turns left, reverse the steering channel (see ***ADJUSTING TTX200 CONTROLS***).



THROTTLE

Pull the throttle trigger to make the vehicle move forward. If the car moves backwards, reverse the throttle channel.

FAILSAFE

This radio system includes a non-adjustable "fail-safe" function, which will automatically return the steering and throttle channels to center position if the Tx/Rx link becomes broken. When the link is re-established normal function should occur automatically. If the link does not become re-established automatically, manually re-link the Rx to the Tx.

RANGE CHECK

The operational "range" or safe operating distance between the Tx and Rx is typically as far as the car/truck can be seen clearly. Always perform a simple range check with the radio equipment before use, to ensure the Tx maintains good control of the Rx within your operating area.

POWERING DOWN THE SYSTEM

IMPORTANT: When operation of the model is finished make sure to power down all components in the correct order. NEVER turn the transmitter's power switch off first. Always make sure to remove power from the receiver first, and only afterwards should power be removed from the transmitter.

SAFETY PRECAUTIONS

- NEVER allow water or moisture to make contact with the electronic components inside the transmitter or receiver. This could lead to failure or improper functionality of components and poor control of vehicle which could pose a safety hazard.
- NEVER operate R/C equipment if you are physically impaired as it could pose a safety hazard to yourself or others in the area.
- NEVER allow small children to operate/control model R/C equipment without the supervision of an adult.
- NEVER allow the transmitter's throttle trigger to accidentally be moved away from the neutral position while the vehicle is powered up.
- Always range check the radio system before use.
- Always make sure that all transmitter movements operate all servos/motor properly in the model.
- Do not store your radio equipment in extremely hot or cold locations, in direct sunlight, or in locations with high humidity. Store R/C equipment in a cool and dry location.
- Do not allow chemicals to come in contact with any parts of the radio system. Substances such as glow fuel, gasoline, CA glue, etc. could permanently damage plastic parts of the radio system.
- If rechargeable batteries were installed in the transmitter, remove the batteries before placing the radio in long-term storage.

TROUBLESHOOTING

RANGE IS SHORT

Interference – Check receiver installation.

Low TX or RX Battery – Replace the batteries or recharge if applicable.

Crash Damage – Send the radio to Hobby Services for repair.

RUN TIME IS SHORT

Low TX or RX Batteries – Replace the batteries.

Obstructed Servo Linkages Causing Excess Battery Drain – Free the linkages/pushrods.

TX POWER SWITCH ON BUT SERVO/ESC DOES NOT FUNCTION

TX or RX Batteries are Low – Replace the batteries or check TX or RX battery polarity. Check ESC, servo and motor connections.

INTERFERENCE OR SERVOS GLITCHING

Out of Range – Operate the model more closely to the transmitter.

Outside Radio Interference (pagers, strong industrial or other commercial TXs in the area) – Check your local R/C club for confirmation of dangerous/interfering frequencies in your area.

CONTROL SURFACE MOVES IN THE WRONG DIRECTION

Channel Reverse Error – Change the position of that channel's reversing switch.

STEERING SERVO GLITCHES

Servo is Bad – Replace the servo or send to Hobby Services for repair.

Contact Hobby Services for other problems.

SPECIFICATIONS

TRANSMITTER
Channels: 2
Frequencies: 2.403-2.480GHz
Protocol: Tactic SLT
Modulation: FHSS spread spectrum
Input Power: 3.40-7.0V DC, four 1.5V alkaline or 1.2V NiCd/NiMH "AA" single cells.
Output Power: <0.1W
Power On Indicator: red LED

TR325 RECEIVER
Channels: 2
Receiving Frequencies: 2.403-2.480GHz
Modulation: FHSS spread spectrum
Input Power: 4.0-6.0V DC, four 1.5V alkaline or 1.2V NiCd/NiMH "AA" cells
Dimensions: 1.40" x 0.7" x 0.55" (35 x 20 x 14mm)
Weight: 0.18oz (5.2g)

FCC STATEMENT

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions.

(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Rf Radiated Exposure Statement: The equipment complies with FCC Rf radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

FCC ID: IYFTTX200

INDUSTRY CANADA NOTICE

This device complies with Industry Canada license-exempt RSS standard(s). 1. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device." 2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. The device can be used in portable exposure conditions without Rf restrictions.

Avis d'Industrie Canada

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. Cet appareil numérique ne dépasse pas les Rèlements sur l'interférence radio par un appareil numérique de classe B stipulées dans les Règlement sur l'interférence redio d'industrie Canada.

Les changements ou modifications de cette unité non expressément approuvés par la partie responsable de la conformité pourraient annuler l'autorité de l'utilisateur à utiliser l'équipement. IC RF Déclaration sur la radioexposition: Cet appareil est conforme avec l'exposition aux radiations IC Définies pour un environnement non contrôlé. L'appareil peut être utilisé dans des conditions d'exposition portatifs sans restrictions Rf.

IC: 11104A-TTX200 / Brand: Tactic
Canada standard: RSS210 & RSS GEN
Model No.: TACJ0200

CE COMPLIANCE INFORMATION FOR THE EUROPEAN UNION

INSTRUCTIONS FOR DISPOSAL OF WASTE EQUIPMENT BY PRIVATE USERS IN THE EUROPEAN UNION:

This symbol on the product or its packaging indicates this product must not be disposed of with other household waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point or the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or location where you purchased the product.

DECLARATION OF CONFORMITY:

Product: Tactic TTX200 2.4GHz 2-Channel Pistol TX
Item Number: TACJ0200
Equipment Class: 1

The objects of the declaration described here are in conformity with article 3.1(a) the requirements of safety contained in the European 2006/95/EC Directive and article 3.1(b) the requirements of EMC contained in Directive 2004/108/EC and article 3.2 requirements of radio equipment in Directive 1999/5/EC.

EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011
ETSI EN 300 328 V1.8.1
ETSI EN 301 489-1 V1.9.2 (2011-09)
ETSI EN 301 489-17 V2.2.1 (2012-09)
ETSI EN 62311:2008

Tactic
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2904 Research Road
Champaign, IL USA 61826

TAIWAN NATIONAL COMMUNICATIONS COMMISSION (NCC) STATEMENT

根據NCC低功率電波輻射性電機管理辦法 規定:

1. 經型式認證合格之低功率射頻電機, 非經許可, 公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

2. 低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時, 應立即停用, 並改善至無干擾時方得繼續使用。前項合法通信, 指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Japan standard: ARIB STD-T66

ACCESSORIES AND OTHER ITEMS

Stock #	Description
DTXP4704	Onyx AA Alkaline Battery (4)
DTXP4191	Onyx 110 AC/DC Peak Charger
DTXP4225	Onyx 225 AC/DC Advanced Charger w/LCD
TACJ0300	Tactic TTX300 3CH 2.4GHz Pistol Tx, TR325 Rx
TACL0325	Tactic TR325 3CH 2.4GHz Receiver Only
TACL0326	Tactic TR326 3CH 2.4GHz Hi Volt Receiver
TACM0235	Tactic TSX35 Standard Servo Sport

WARRANTY AND REPAIR

1-YEAR LIMITED WARRANTY

Tactic warrants this product to be free from defects in materials and workmanship for a period of one (1) year from the date of purchase. During that period, Tactic will, at its option, repair or replace without service charge any product deemed defective due to those causes. You will be required to provide proof of purchase (invoice or receipt). This warranty does not cover damage caused by abuse, misuse, alteration or accident. If there is damage stemming from these causes within the stated warranty period, Tactic will, at its option, repair or replace it for a service charge not greater than 50% of its then current retail list price. Be sure to include your daytime telephone number or e-mail address in case we need to contact you about your repair. This warranty gives you specific rights. You may have other rights, which vary from state to state.

For service on your Tactic product, send it post-paid and insured to:

HOBBY SERVICES
3002 N. Apollo Dr., Suite 1
Champaign, IL USA 61822
Tel: (217) 398-0007
(9:00am – 5:00pm CST, M-F)
E-mail: hobbyservices@hobbico.com

*For warranty and service information if purchased outside the U.S.A. or Canada, ask your retailer for more information.

Distributed in the EU by:

- This product is suitable only for people of 14 years and older. This is not a toy!
- WARNING: CHOKING HAZARD – May contain small parts. Keep away from children under 3 years. Please retain packaging for future reference.
- No part of this manual may be reproduced in any form without prior permission.
- The contents of this manual are subject to change without prior notice.
- Tactic is not responsible for the use of this product.

Tactic
tacticrc.com

Made in China
TACJ0200 v3