

Wildlife Materials International, Inc.

TRX-10S RECEIVER Instructions for Use

NOTES:

- ELECTRONICS (parts & labor) are guaranteed for FIVE YEARS.
- This receiver is NOT WATERPROOF and not guaranteed to be so. In rain, snow, fog, etc., please COVER RECEIVER. Water inside the receiver will void the warranty.

Specifications:

Frequency Coverage -- 10 channels that are 10 KHz-wide @ 40 KHz spacing standard

Sensitivity -- -147 to -149 dBm Minimum Discernible Signal

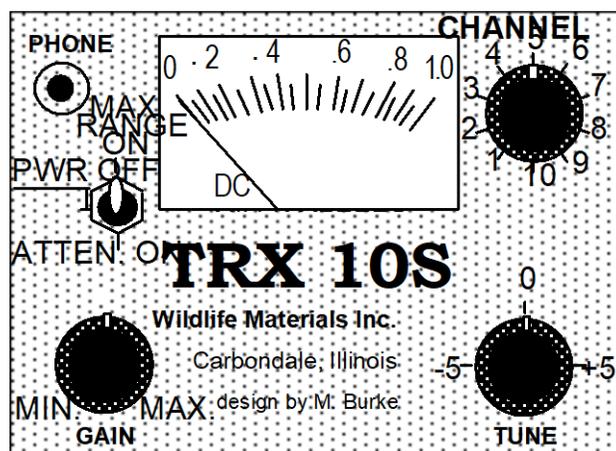
Selectivity -- plus or minus 2 KHz @ 6dB down

Stability -- plus or minus 1 KHz from -4 to +122 degrees F

Features --

- Sensitive signal meter
- Built-in attenuator
- Rechargeable nicad batteries
- External DC power cord for vehicle cigarette-lighter socket
- Padded nylon carrying case with belt loop and shoulder strap
- **Weight:** 1 pound **Length:** 5 3/4" **Width:** 3" **Height:** 2 1/4"

Front Panel Controls:



INFORMATION about FRONT PANEL CONTROLS:

PHONE JACK: Allows connection for low-impedance earphone or headphone with 3.5 mm plug. Sound from speaker is disconnected when phone jack is used.

MAX RANGE ON/POWER OFF/ATTEN ON: This multipurpose 3-position switch turns the power on and off. It also operates the attenuator, needed when your receiver is being swamped by the animal's beeping signal.

When the switch is in the **MAXimum RANGE ON** position, the receiver power is turned on and the attenuator is off to give **best long distance** tracking.

When the switch is in the **ATTENUator ON** position, the receiver power is turned on and the attenuator is on for **best close-in** tracking.

When the switch is in the center **POWER OFF** position, the receiver power is turned off to **save battery**.

GAIN: Sets receiver volume; turn clockwise for more volume; turn counterclockwise for less.

TUNE: Fine-tunes each 10 KHz channel. O (zero) position marks the channel center. -5 and +5 are marks to show plus and minus 5 KHz from center frequency.

CHANNEL: Ten-position channel switch allows selection of the desired frequency number. See list of channels/frequency ranges on top of receiver.

SIGNAL METER: Enhances direction and location finding by allowing comparison of signal with the beeping sound coming from transmitter. The sensitive needle deflects to match transmitter collar's sound. The stronger the signal, the more the needle is moved to the right with the beep.

INFORMATION about CONTROLS at BACK of receiver:

ANTENNA JACK: (at **lower back**) accepts antenna's BNC Connector with 50-ohm coax cable

DUAL PURPOSE DC EXTERNAL POWER JACK and RECHARGER JACK: (at **upper back**) allows receiver to be operated by DC power cord from vehicle cigarette lighter plug-in. Also insert recharger plug here for recharging NiCad batteries.

OPERATING INSTRUCTIONS:

1. To turn **on** receiver, push toggle switch UP to **Max(imum) Range On**. For battery conservation, turn the receiver **OFF** by pushing the toggle switch to central **POWER OFF** position after you have located your animal's signal. The TRX-10S Receiver will automatically be powered by rechargeable NiCad batteries.

If you wish to power the receiver from a vehicle, insert the DC power cord's male plug into the DC External Power Jack at the **upper back**, then insert other end of DC Power Cord into vehicle cigarette lighter. The toggle switch on receiver face can be pushed up to **MAX RANGE ON** or down to **ATTEN. ON** position.

2. As your transmitted animal moves a distance away, a directional antenna will be needed to locate and magnify the animal's signal. To use the antenna, attach its cable BNC Connector to the receiver jack at the **lower back**. Fit the BNC Connector, push in

and rotate clockwise to lock. If your receiver is mounted on an antenna, use the short cable coming from the receiver jack at lower back. Attach that cable's BNC Connector to the **gamma match** on the middle element of the 3-element antenna immediately behind the receiver. Fit the BNC Connector to the gamma match, push in and rotate clockwise to lock.

3. Adjust GAIN or volume control until a low hissing noise comes from the speaker. Always try to keep your GAIN as **low** as possible.

4. Use CHANNEL selector to choose the channel on which your transmitter's signal will come in. For the exact channel that will broadcast your transmitter collar's signal, see frequency range chart taped to the receiver's exterior.

5. Rotate the TUNE CONTROL from left to right, from -5 to O (zero) to +5, to refine the signal strength and get the clearest tone. For instance, collar frequency numbers ending in 5 will come in best at center channel or O. Collar numbers ending in 1 or 2 will come in best near -5; collars ending in 8 or 9 will come in best near +5. To fine tune for best **range, play** with the TUNE Control until you locate the place on the dial where each collar performs best.

6. Adjust GAIN control or volume. At first, turn up the volume to bring in the transmitter signal. After you hear the signal, turn GAIN as **LOW** as possible (the beeping signal may sound best when it is a high chirp, a faucet drip or a dull thump, depending on your hearing ability). When your directional antenna is pointed at the transmitter wearer, your Gain is LOW but you can still hear signal, and the meter needle stays below 6 on the meter, you will get the best signal **direction**. As you move closer to the transmitted animal, keep adjusting the GAIN LOWER to retain the best directional signal and to avoid swamping.

7. If the signal comes at you equally from all directions, overload or swamping is occurring. Use the ATTENUATOR circuitry by pushing the toggle switch to ATTEN ON. This attenuator brings the signal in strongly from one direction, allowing accurate direction finding when the operator's receiver is close to the transmitted animal. When the animal wearing the transmitter moves out to a greater distance, turn the toggle switch from ATTEN. ON to MAX RANGE ON or to receiver OFF (the center position).

8. Receivers are shipped from Wildlife Materials, Inc. with a **full charge**, which **lasts about 6 hours** of tracking. To charge, insert recharger plug into the recharge jack at the **upper back** of receiver. **Make sure the power switch is OFF when you are charging the battery.** A **fully discharged** TRX-10S should be **charged at least 16 hours but no more than 24 hours**. After the receiver is fully charged, **recharge for 4 hours for each hour of operation, up to 24 hours.**

9. **Vary your recharge times** to avoid a "memory" buildup. If you recharge 4 hours **each** time, the battery will gradually become good for **only** 4 hours of life. Avoid a recharging pattern to get the most out of a battery. For instance, if you charge for 4 hours one time, use your equipment until a charge of 8-10 hours or 12-14 hours or 16-20 hours is required the next time.

10. During storage periods, stimulate the battery by turning on receiver every 3-4 months. Run for 3-4 hours, then recharge for 12-16 hours.

WARRANTY: Parts and labor on ELECTRONICS guaranteed for **FIVE YEARS**. Other aspects of the receiver are covered for **ONE YEAR**. Failures caused by user's abuse, neglect, water damage, and acts of God are not covered. Any attempt to repair or modify this receiver by the user or anyone other than WMI technicians will **VOID** warranty.

The receiver **IS NOT WATERPROOF**, and not guaranteed to be so. During rain, **place inside plastic bag** or operate from a vehicle.

15-DAY TRIAL PERIOD: Call us if you wish an exchange or refund. Return items in like-new condition, without evidence of dog wear.

CARRYING CASE: The padded nylon carrying case features a quick-disconnect adjustable shoulder strap and belt loop for wearing the receiver at the waist. There are two Velcro closures: one at the top to protect the receiver face, the second closure at the bottom to allow space for the antenna cable, DC power cord and recharger's use. For antenna-mounted receivers: A padded holster, with separate pockets to prevent scratching of the removable elements, is provided.

Wildlife Materials, Inc. shall not be liable for any loss or damage resulting directly or indirectly, or as a consequence of or incidental to, the use or loss of any Wildlife Materials product including, without limitation, the original purchaser's expenses associated with downtime, interrupted or lost data, or damages to persons, animals or property.

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34 YEARS MANUFACTURING EXPERIENCE