

# Wildlife Materials International, Inc.

## INSTRUCTIONS TRX-16S RECEIVER

This 16-channel receiver, the newest model in our TRX family of modern receivers, will monitor up to 16 transmitter wearers.

Because the receiver is a lightweight one-pound, it can be permanently mounted on a three-element directional antenna. The receiver comes with **disposable** batteries OR **rechargeable** NiCad batteries and case. If you chose rechargeable batteries, a recharger is included, as well as a DC power cord with cigarette lighter plug for operation off a vehicle battery.

This receiver's noise blanking circuit, one of its most important features, will cut unwanted static and provide better signal reception.

Please use your receiver to practice locating a transmitter before attaching the transmitter to a wearer.

Like all receivers, the TRX-16S is not **waterproofed**, nor is it guaranteed waterproof. In rain, snow, fog, etc., please **cover the receiver, or use it inside a vehicle.**

If a receiver is opened, except to change disposable batteries, warranty will be voided. A receiver that has been opened may need recalibration and retuning.

### **DESCRIPTION of CONTROLS on RECEIVER FACE**, from left

**Gain Knob:** Sets volume. Turn clockwise to increase volume, counter clockwise to lower volume

**Power:** Push PWR toggle switch up for ON, down for OFF

**LED Bar:** Light Emitting Diode flashes and moves right to show signal strength, matching the transmitter collar's beep

**Channel Selector:** Turn 16-position switch to select the desired channel

**Tune:** Fine-tunes the signal on each channel. 0 (zero) position is center. -5 and +5 show plus and minus KHz from center of channel

### **DESCRIPTION of CONTROLS on REAR of RECEIVER**, from left

**Antenna Jack:** Accepts BNC Connector from coax cable for attachment to antenna

**Attenuator:** This circuitry prevents swamping during close-in tracking. When toggle switch is turned ON, the transmitter collar's signal is shortened/weakened so that signal comes in strongly from one direction, where the animal is located. When switch is turned OFF, a normal signal is received.

## **DIRECTIONS FOR USE:**

1. Start the transmitter's signal, either by removing a magnet or by inserting batteries. Turn on the receiver's power switch (PWR).

2. Select the channel on which this transmitter broadcasts. Use the switch marked CH to choose channels 1 through 16. To determine which channel your transmitter comes in on, look at the chart at back of receiver. The beginning and end of each channel is listed.

For best reception, your transmitter's unique frequency number has been programmed close to the center of the channel. You will hear a beeping signal coming from the transmitter. At the same time, the signal will match the lights on the LED bar located at top center of the receiver face. The LED bar (light emitting diode) is a tracking aid that shows the signal strength. As the flashing red lights move further right, you are getting closer to the transmitter wearer. To be effective, the lights **do not need to bounce to the far** right. If you keep the Gain/volume Knob (at left) low, the light bar will move right only a few steps.

3. Use the Gain Knob on the left of receiver face to regulate the volume. Experienced users keep the volume as **low** as possible while still being able to hear the transmitter signal. **High volume drains the battery more, causes distortion of the signal, and makes pinpointing the signal difficult.**

4. Use the TUNE knob at right to bring in the signal that is best for your ear.

5. Use your antenna after the transmitter wearer has moved out several yards or more. Attach the antenna cable's BNC connector to the antenna jack at the back of the receiver. Push the BNC connector **in and to the right**. The antenna magnifies the transmitter signal and pinpoints the transmitter wearer's location.

6. If the signal swamps your receiver, coming in equally from all directions, the transmitter wearer is close. Turn ON the ATTENUATOR switch at the back of the receiver. The attenuator circuit shortens/weakens the signal range and brings the signal in strongly from one direction, where the transmitter wearer is located. **After the transmitter wearer moves back out to a greater distance, be sure to turn off the attenuator.** Otherwise, you may not get a signal at all.

7. Conserve battery power! Turn receiver on to take reading, and then turn off.

8. If you purchased the **disposable battery** receiver, you can change the eight **disposable** AAA batteries after the signal fades. Batteries last 13-15 hours. To change batteries, loosen 4 thumbscrews at back sides of receiver, lift lid off and replace batteries. Note polarity marks on battery holder: be sure to **observe polarity** by matching **+ to +** and **- to -**. Fit lid back on and tighten screws.

During **long-term** storage, remove disposable batteries to avoid corrosion and rusting. Failure to do so could void warranty if batteries leak. Store batteries in **separate** containers in refrigerator.

9. The rechargeable TRX-16S has been shipped with a **full charge**, which **lasts 6 hours** of tracking. **To charge, turn power switch OFF first.** Insert recharger plug into the recharge jack at back of the **upper left side**. After box is fully charged, users should **recharge 4 hours for each hour of operation, up to 24 hours.** A **fully discharged** receiver should be charged at least **16 hours** but **no more than 24 hours.**

10. **Vary recharge times** to avoid a "memory" buildup. If you recharge 4 hours **each** time, the battery will gradually become good for **only 4 hours** 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 unit until a charge of 8-10 or 12-14 or 16-20 hours is required next.

11. To operate a **rechargeable** receiver off a vehicle battery, insert the DC Power Cord's plug into the jack (the same as used for recharger) at **back left side** of receiver. Plug the other end into the vehicle's cigarette lighter holder.

12. 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.

--All equipment comes with a **15-day trial period.** If you wish to return an item, please contact us and ship back in like-new condition.

--**FIVE-YEAR** Warranty on **Parts and Labor** in **ELECTRONICS** for purchases made after 1/1/97

--When returning for repair, please ship insured. Include name, address and phone number. Request a repair estimate if warranty has expired. Describe the problem in detail so that technicians can go quickly to the repair, saving time and cost.

**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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