



TCR-517 5-Channel 49 MHz VOX Headset Walkie-Talkie



Owner's Manual
Please read before using this equipment.

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Features

Your RadioShack 5-Channel 49 MHz VOX Headset Walkie-Talkie is a compact, portable, two-way FM transceiver. You can communicate hands-free with another walkie-talkie or any FM walkie-talkie operating on the same frequency. Your walkie-talkie adds fun to sporting events, camping, biking, or hiking trips with your friends, and is perfect for recreational use.

The walkie-talkie is also practical on the job. Use it when taking an inventory in the warehouse, keeping track of your staff in a large building, or talking to your crew on a construction site. The walkie-talkie's uses are practically unlimited!

Its features include:

Multi-Channel Operation — lets you transmit and receive on any of five channels.

Switchable Voice Activation System (VOX) — automatically switches from receive to transmit when you talk.

Voice-Activated or Push-To-Talk Operation — lets you choose to transmit by simply talking (VOX, hands-free) or manually by pressing the **PUSH TO TALK** button.

Up to 1/8 Mile Transmission Range — gives you clean, noise-free reception by using a double-superheterodyne circuit.

Battery Low Indicator — lights when you need to replace the battery.

Adjustable Headset — you can adjust the headset for the most comfortable fit.

Built-In Antenna — convenient for recreational use and provides excellent reception and transmission.

Audio Input Jack — supplied cable allows you to connect a personal cassette player or radio.

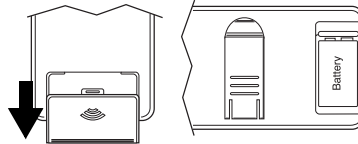
Preparation


INSTALLING THE BATTERY

Your walkie-talkie requires one 9V battery (not supplied) for power. For the best performance and longest life, we recommend a RadioShack alkaline battery.

Caution: Use only a fresh battery of the required size and recommended type.

Follow these steps to install a battery.



1. Press the raised symbol () on the battery compartment cover and slide the cover down to remove it.
2. Snap the battery into the terminals and place it in the compartment. (The battery fits only one way.)

3. Replace the cover.

Caution: If you do not plan to use the walkie-talkie for a few days, remove the battery. Batteries can leak chemicals that can destroy electronic parts.

Battery Low Indicator

If BATTERY LOW lights, replace the battery.

Warning: Dispose of old batteries promptly and properly. Do not burn or bury them.

ATTACHING THE HEADSET

With **VOX/PTT/OFF** set to **OFF**, plug the headset cable into the walkie-talkie's cable, as shown.



ADJUSTING THE HEADSET

1. Place the headset on your head with the earpiece over either ear.



2. The headset band should rest with almost no pressure on your ear and the top of your head. Make adjustments as desired.

If the headset is loose, push the earpiece upward slightly to tighten it.

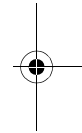
If the headset is tight, pull the earpiece downward to loosen it.

3. Hold the headset in place, and position the microphone boom up or down until it is about even with your chin. Experiment until you find the most comfortable position.

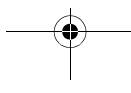
Listening Safely



To protect your hearing, follow these guidelines when you use a headset.



- Set the volume to the lowest setting before you begin listening. After you begin listening, adjust the volume to a more comfortable level.
- Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.
- Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.



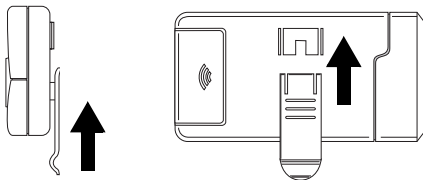
Traffic Safety

Do not use a headset with your walkie-talkie when operating a motor vehicle or riding a bicycle in or near traffic. Doing so can create a traffic hazard and could be illegal in some areas.

ATTACHING THE BELT CLIP

The walkie-talkie comes with a belt clip.

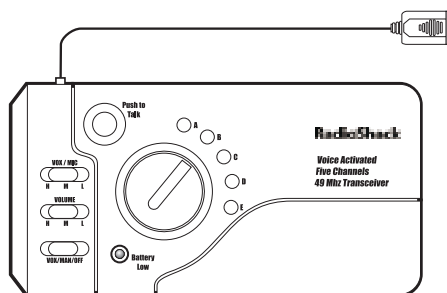
To attach the belt clip, align the clip's dovetails with the grooves on the walkie-talkie and slide the belt clip up until it locks into place.



To remove the belt clip, lift up on the locking tab and slide the clip down.

□ Operation

USING THE WALKIE-TALKIE



1. To turn on the walkie-talkie, slide **VOX/PTT/OFF** to either **VOX** or **PTT**.
2. Set the walkie-talkie to the desired channel (**A** through **E**).

Notes:

- With the walkie-talkie, you can communicate with an unlimited number of walkie-talkies that are on same channel.
- To talk privately to specific people, you and the other person(s) in the conversation must switch to another specified channel.
- Your walkie-talkie cannot receive while transmitting. Wait for the other person to stop talking before you transmit.

3. For *hands free (voice-activated) operation*, make sure the volume is set to **L**. Slide **VOX/PTT/OFF** to **VOX**, then set **VOX/MIC** for the best transmission and reception sensitivity as follows:

- In a noisy environment, set **VOX/MIC** to **L** (low). This prevents the walkie-talkie from continuing to transmit after you speak due to background noise. With this setting, you must speak into the microphone louder to transmit.
- In a quieter area, set **VOX/MIC** to **M** (medium) or **H** (high). At these settings, you do not have to speak loud to transmit.

To transmit manually, slide **VOX/PTT/OFF** to **PTT**. Press **PUSH TO TALK** to transmit, and release it to receive.

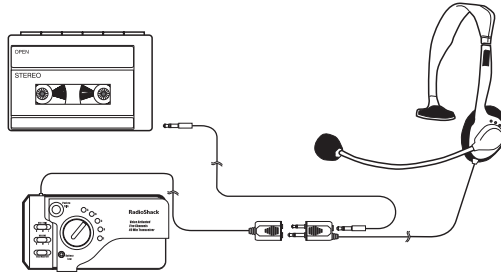
4. Set **VOLUME** to the desired listening level (**H** for high volume, **M** for medium volume, or **L** for low volume).
5. To turn the walkie-talkie off when you are finished, slide **VOX/PTT/OFF** to **OFF**.

USING THE AUDIO INPUT JACK

You can attach an audio cassette or radio to the walkie-talkie so you can listen to music while talking to others.

Simply plug one end of the supplied $\frac{1}{8}$ -inch (3.5-mm) audio input cable to the audio input jack on the walkie-talkie's plug, and

the other end to the headphone jack on the audio source, as shown.



Note: Using your walkie-talkie with or near digital audio players (such as CD players, MP3 players, and MD players) might cause interference or reduce the walkie-talkie's range. Changing channels on the walkie-talkie might remove or limit interference.

□ Troubleshooting

We do not expect you to have any problems with your walkie-talkie, but if you do, the following suggestions might help. If you still have problems, take the walkie talkie to your local RadioShack store for assistance.

Problem	Solution
No power.	Replace the battery.
	Make sure the power switch is set to VOX (voice activated), or PTT (push to talk).
Message cannot be transmitted.	Make sure that the PUSH TO TALK button is completely pressed when you are transmitting.
	Make sure the VOX/PTT/OFF switch is set to VOX or PTT .
Reception is poor.	Certain channels will work better than others in some areas. If you are in an area of high interference, switch channels to find one with better transmission, reception and clarity.
Limited talk range.	Talk range depends on the terrain, so hills, structures, and other obstacles can affect transmission. Radios are "line-of-sight," which means you usually cannot hear transmissions that are beyond the horizon. Move closer and change to line-of-sight open terrain.

Problem	Solution
Message is not being received.	Make sure your radio is set to the same channel as those of your partners.
	Make sure the VOX/PTT/OFF switch is set to VOX or PTT . If the VOX/PTT/OFF switch is set to PTT , make sure the PUSH TO TALK button is not pressed when you are trying to receive.
	Adjust VOLUME if the transmission is too soft.
	Obstructions can affect your transmission range. Move closer to the person transmitting.
Heavy static.	The distance between the radios is too far. Move closer to the person transmitting.
Hearing other conversation or noise.	49 MHz technology is fairly common. Try a different channel, or change location when this occurs.

Care and Maintenance

Your 5-Channel 49 MHz VOX Headset Walkie-Talkie is an example of superior design and craftsmanship. The following suggestions will help you care for the walkie-talkie so you can enjoy it for years.

- Keep the walkie-talkie dry. If it does get wet, wipe it dry immediately. Liquids can contain minerals that can corrode the electronic circuits.
- Use and store the walkie-talkie only in normal temperature environments. Temperature extremes can shorten the life of electronic devices and distort or melt plastics.
- Handle the walkie-talkie gently and carefully. Dropping the walkie-talkie can damage circuit boards and cases and cause the it to work improperly.
- Keep the walkie-talkie away from dust and dirt, which can cause premature wear of parts.
- Wipe the walkie-talkie with a damp cloth to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the radio and harness.

Modifying or tempering with the walkie-talkie's internal components can cause a malfunction and invalidate its warranty and void your FCC authorization to operate it. If your radio is not performing as it should, take it to your local RadioShack store for assistance.

The FCC Wants You to Know

An individual operating license is not required for this walkie-talkie's frequency range. Changes or modifications to the radio and power output circuits will void the users authority granted by the FCC to operate this radio and could violate FCC rules.

The walkie-talkie may cause TV, radio, and cordless phone interference even if it is operating properly. To determine whether the walkie-talkie is causing the interference, turn off the walkie-talkie. If the interference goes away, the walkie-talkie is causing the interference. Try to eliminate it by:

- moving the walkie-talkie away from the transceiver
- contacting your local RadioShack store for help

If you cannot eliminate the interference, the FCC requires that you stop using the walkie-talkie.

Specifications

Channels	5
Operating Frequency	49.830–49.890 MHz
	(A) 49.830 MHz
	(B) 49.845 MHz
	(C) 49.860 MHz
	(D) 49.875 MHz
	(E) 49.890 MHz
Talk Range	$\frac{1}{8}$ mile
	(Terrain dependent)
Input Voltage	9V DC
Radio Dimensions (HWD)	$2\frac{15}{16} \times 5\frac{11}{16} \times \frac{7}{8}$ in
	(75 × 145 × 22mm)
Radio Weight (Approximately)	6.5 oz
	184.3 g
Headset Weight (Approximately)	1.6 oz
	45.4 g
Microphone	Omnidirectional, electret
Earphone	13 mm dynamic driver

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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