



RadioShack®

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Compact Deluxe CB Walkie-Talkie with Weather Receive and Weather Alert



Owner's Manual
Please read before using this equipment.

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□ Features

Your RadioShack Compact Deluxe CB Walkie-Talkie is a high performance CB transceiver that also lets you tune into local and national weather service broadcasts, letting you hear local weather conditions and forecasts wherever you travel. This walkie-talkie is perfect for recreational, business, or emergency use. You can call other people who have CBs at home, in their vehicles, or at camp sites. You can also connect optional equipment to your walkie-talkie, such as external speakers, or a DC power supply and base station antenna to set up a base station in your home.

Your walkie-talkie has the following features.

7 Weather Channels — let you select and hear your local National Oceanic and Atmospheric Administration (NOAA) weather broadcasts.

Weather Event Display — uses Specific Area Message Encoding (SAME) digital information to determine and display the level of weather events.

Supplied Ni-MH Rechargeable Battery and Battery Charger — provides plenty of power for your walkie-talkie.

40 CB Channels, Full Legal Power — lets you use the full range of CB channels with the full legal power allowed for a handheld CB.

No License Required! — you can use your walkie-talkie without fees, age restrictions, or licensing requirements.

Flexible Antenna with BNC Connector — provides adequate reception in strong signal areas and is designed to help prevent antenna breakage. Or, you can connect an external antenna for better reception.

Instant Channel 9/19 Switching — lets you quickly tune to emergency Channel 9 or Channel 19, making it easy to report or monitor emergency situations.

Scan — lets you quickly search all CB and weather frequencies, so you can quickly find transmissions in or about your area.

High/Low Power Button — lets you save power by selecting a suitable transmitting power for long or short distances.

Supplied AA Battery Pack — lets you use inexpensive AA batteries to power your walkie-talkie.

Four Power Options — let you power the walkie-talkie using the supplied Ni-MH battery pack or AA battery pack, external AC power using an optional DC power supply, or DC power using an optional DC cigarette-lighter power cable.

Your walkie-talkie receives and transmits on these CB channels.

Channel	Frequency (MHz)
1	26.965
2	26.975
3	26.985
4	27.005
5	27.015
6	27.025
7	27.035
8	27.055
9	27.065
10	27.075
11	27.085
12	27.105
13	27.115
14	27.125
15	27.135
16	27.155
17	27.165
18	27.175
19	27.185
20	27.205
21	27.215
22	27.225

Channel	Frequency (MHz)
23	27.255
24	27.235
25	27.245
26	27.265
27	27.275
28	27.285
29	27.295
30	27.305
31	27.315
32	27.325
33	27.335
34	27.345
35	27.355
36	27.365
37	27.375
38	27.385
39	27.395
40	27.405

In addition, your walkie-talkie can receive these weather service channels:

Channel	Frequency (MHz)
1	162.400
2	162.425
3	162.450
4	162.475
5	162.500
6	162.525
7	162.550

Your CB might cause TV or radio interference even when it is operating properly. To determine whether your CB is causing the interference, turn off your CB. If the interference goes away, your CB is causing it. Try to eliminate the interference by either moving your CB away from the receiver or contacting your local RadioShack store for help. If you cannot eliminate the interference, the FCC requires that you stop using your CB.

FCC INFORMATION

The Federal Communications Commission (FCC) does not require you to have a license to operate this CB. However, the FCC does require that you read and know Part 95 of *FCC Rules*. These rules apply to the operation of a Class D CB. We have provided a copy of these regulations with your CB.

Warning: Do not open your CB to make any internal adjustments. Any internal adjustments can be made only by an authorized service technician.

Unauthorized internal adjustments and/or modifications can lead to illegal operation as defined by Part 95 of FCC Rules. Such illegal operation can lead to very serious consequences.

□ Preparation

POWER SOURCES

You can power your walkie-talkie from any of these sources:

- rechargeable Ni-MH battery pack (supplied, see "Using the Ni-MH Battery Pack")
- eight AA batteries (not supplied) using the supplied AA battery pack (see "Using the AA Battery Pack" on Page 7)
- vehicle power using an optional DC power cord (see "Using Vehicle Battery Power" on Page 8)
- standard AC power using an optional DC power supply (see "Using Standard AC Power" on Page 9)

Note: If you attach the supplied AA battery pack to the walkie-talkie, you can operate the walkie-talkie and recharge the Ni-MH battery pack at the same time. See "Using the Ni-MH Battery Pack" below and "Using the AA Battery Pack" on Page 7.

Using the Ni-MH Battery Pack

You can use the supplied Ni-MH battery pack to power the walkie-talkie. You must charge the Ni-MH battery pack using the supplied bat-

tery charger about 18 hours the first time you use it. It takes about 14–16 hours to recharge a Ni-MH battery pack that is fully discharged. You can charge the Ni-MH battery pack while it is installed or removed.

Cautions:



You must use a Class 2 power source that supplies 16V DC and delivers at least 200 mA. Its center tip must be set to positive and its plug must fit the walkie-talkie's CHG jack. The supplied battery charger meets these specifications. Using a battery charger that does not meet these specifications could damage the walkie-talkie or the battery charger.

- Always connect the battery charger to the Ni-MH battery pack before you connect it to AC power. When you finish, disconnect the battery charger from AC power before you disconnect it from the Ni-MH battery pack.
- Use only the supplied battery charger to recharge the Ni-MH battery pack. Other battery chargers might damage your walkie-talkie or the Ni-MH battery pack.

Follow these steps to charge and install the Ni-MH battery pack.

1. If the walkie-talkie is on, turn **OFF/VOLUME** fully counterclockwise until it clicks to turn it off.
2. Connect the supplied battery charger's barrel plug to the CHG jack on the side of the Ni-MH battery pack, then insert the battery charger's power module into a standard AC outlet.
3. To install the Ni-MH battery pack, slide it onto the walkie-talkie until you hear a click.

Caution: The battery pack fits onto the walkie-talkie only one way. Do not force it.

To remove the Ni-MH battery pack, slide the case in the direction of the arrow as shown here while holding up the latch on the side of the walkie-talkie.

Notes:

- The Ni-MH battery pack will last longer and deliver more power if you occasionally let it fully discharge. To do this, simply use the walkie-talkie until it no longer transmits or receives.

Latch



- Do not charge the Ni-MH battery pack at temperatures below 14°F (-10°C) or above 131°F (55°C).
- Do not overcharge the Ni-MH battery pack. Overcharging can severely reduce its useful life.

Using the AA Battery Pack

Your walkie-talkie can use eight AA batteries (not supplied), installed in the supplied battery case, for power. For the best performance and longest life, we recommend RadioShack alkaline batteries.

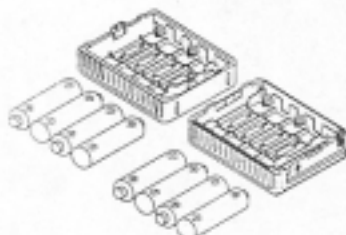
Cautions:

- Use only fresh batteries of the required size and recommended type.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.

Follow these steps to install batteries.


1. If the walkie-talkie is on, turn **OFF/VOLUME** fully counterclockwise until it clicks to turn it off.
2. If the battery case is attached to the walkie-talkie, slide the case in the direction of the arrow while holding up the latch on the side of the walkie-talkie.
3. Pull the halves of the battery case apart to open it.

4. Place the batteries inside both halves of the battery case, as indicated by the polarity symbols (+ and -) marked inside.



5. Snap the halves of the battery case together to close it, then slide the case onto the walkie-talkie until you hear a click.

Caution: The battery pack fits onto the walkie-talkie only one way. Do not force it.

When  appears or the walkie-talkie stops operating properly, replace the batteries.

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

Caution: If you do not plan to use the walkie-talkie with batteries for two weeks or more, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.

Using Vehicle Battery Power

You can power the walkie-talkie from a vehicle's 12V power source (such as a cigarette-lighter socket) using a DC cigarette-lighter power cord and a size H Adaptaplug™ adapter (neither supplied). Both are available at your local RadioShack store.

Cautions:



You must use a power source that supplies 12V DC and delivers at least 2.5 A. Its center tip must be set to positive and its plug must fit the walkie-talkie's 12V DC PWR jack. Using a power cord that does not meet these specifications could damage the walkie-talkie or the adapter.

- Always connect the power cord to the walkie-talkie before you connect it to the power source. When you finish, disconnect the power cord from the power source before you disconnect it from the walkie-talkie.

Note: You cannot use vehicle battery power to recharge the supplied Ni-MH battery pack.

Follow these steps to operate the walkie-talkie from a vehicle's battery.

1. If the walkie-talkie is on, turn OFF/VOLUME fully counterclockwise until it clicks to turn it off.

2. Insert the Adaptaplug into the power cord so it reads TIP +, then insert the power cord into the walkie-talkie's 12V DC PWR jack.
3. Plug the other end of the power cord into your vehicle's cigarette-lighter socket.

Using Standard AC Power

You can power the walkie-talkie using a DC power supply that supplies 12V at 2.5 amps, a fused power cord, and a size H Adaptaplug™ adapter (not supplied). All are available at your local RadioShack store.

Cautions:



You must use a Class 2 regulated power source that supplies 12V DC and delivers at least 2.5 A. The fused power cord's center tip must be set to positive and its plug must fit the walkie-talkie's 12V DC PWR jack. Using a power source or power cord that does not meet these specifications could damage the walkie-talkie, the power source, or the power cord.

- Always connect the DC power supply to the walkie-talkie before you connect it to AC power. When you finish, disconnect the DC power supply from AC power before you disconnect it from the walkie-talkie.

Follow these steps to power the walkie-talkie from AC power.

1. If the walkie-talkie is on, turn OFF/VOLUME fully counterclockwise until it clicks to turn it off.
2. Insert the Adaptaplug into the power cord so it reads TIP +.
3. Connect one end of the power cord to the DC power supply.
4. Plug the power cord's barrel plug into the walkie-talkie's 12V DC PWR jack.
5. Plug the DC power supply into a standard AC outlet.

CONNECTING AN ANTENNA

To attach the supplied flexible antenna to the connector on the top of your walkie-talkie, align the slots around the antenna's connector with the tabs on the walkie-talkie's BNC connector. Then slide the antenna's connector down over the walkie-talkie's connector and rotate the antenna connector's outer ring clockwise until it locks into place.

Connecting an Optional Antenna

The walkie-talkie's BNC connector makes it easy to connect a variety of optional antennas, including an external mobile antenna or outdoor base

station antenna. Your local RadioShack store sells a wide selection of antennas.

Always use 50-ohm, RG-58, or RG-8, coaxial cable to connect an outdoor antenna. If the antenna is over 50 feet from the walkie-talkie, use RG-8 low-loss dielectric coaxial cable. If your antenna's cable does not have a BNC connector, your local RadioShack store carries a variety of BNC adapters.

Warning: When you install an outdoor antenna, use extreme caution. If the antenna starts to fall, let it go! If the antenna touches the power line, contact with the antenna, mast, cable, or guy wires can cause electrocution and death. Call the power company to remove the antenna. Do not attempt to remove it yourself!

CONNECTING AN EXTERNAL SPEAKER

In a noisy area, an optional external speaker, positioned in the right place, might provide more comfortable listening. Plug the speaker cable's $\frac{1}{8}$ -inch (3.5-mm) mini-plug into your walkie-talkie's SPK jack. This disconnects the walkie-talkie's internal speaker.

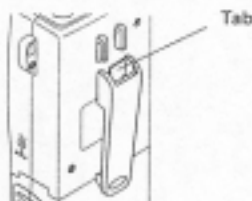
Your local RadioShack store carries a selection of suitable speakers.

CONNECTING AN EXTERNAL SPEAKER/MICROPHONE

You can use an external speaker/microphone (not supplied). Plug the speaker/microphone's connector into the walkie-talkie's MIC and SPK jacks. This disconnects the walkie-talkie's internal speaker.

Your local RadioShack store carries a selection of suitable speaker/microphones.

USING THE BELT CLIP



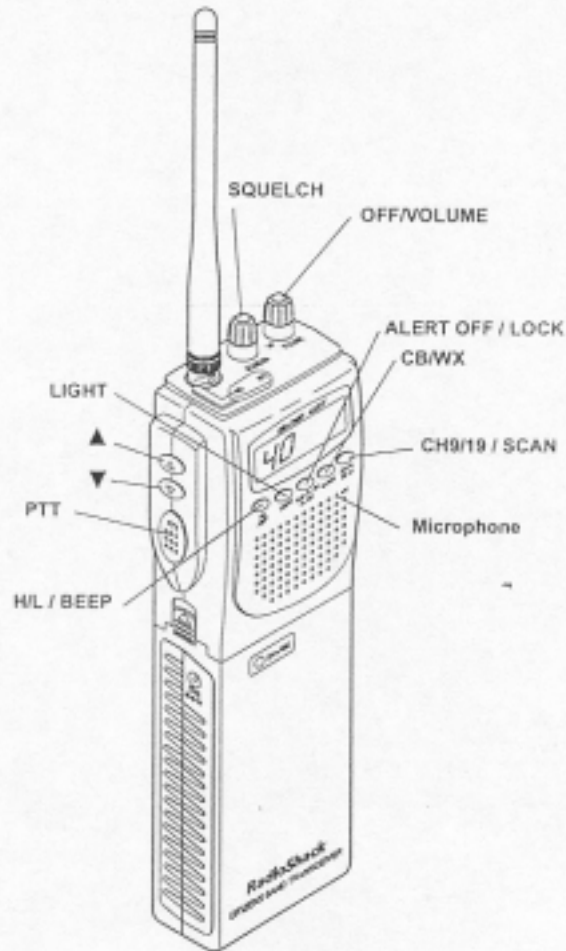
To remove the belt clip, pull the tab and slide the belt clip down.

To reattach the belt clip, slide it up until it locks into place.

USING THE WRIST STRAP

To attach the supplied wrist strap, thread the strap's small loop through the wrist strap hole at the right side of the walkie-talkie. Then insert the longer loop through the smaller loop and pull on the strap until the loop is tight.

A Look at Your Walkie-Talkie



Operation

Before you use your walkie-talkie, you should know how to use it effectively and courteously. "Operational Hints" on Page 15 contains information that will help you get more enjoyment from your walkie-talkie.

RECEIVING TRANSMISSIONS AND ADJUSTING SQUELCH

1. Turn **SQUELCH** fully counterclockwise.
2. Rotate **OFF/VOLUME** clockwise until it clicks to turn on the walkie-talkie. A channel number appears.
3. If necessary, repeatedly press **CB/WX** until a channel number and the signal meter appear (to select the CB band) or until the signal meter disappears (to select the weather band).
4. Repeatedly press **▲** or **▼** on the side of the walkie-talkie to select the desired channel.

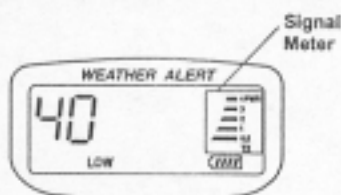
Note: If you press **▲** when you are tuned to Channel 40, the channel selector returns to Channel 1. If you press **▼** when you are tuned to Channel 1, the channel selector returns to Channel 40.

5. Adjust **OFF/VOLUME** to a comfortable listening level.
 6. To cut out background noise between transmissions, wait until there is no signal on the channel, then slowly turn **SQUELCH** clockwise until the background noise stops.
- Note:** Do not turn **SQUELCH** too far clockwise because you might cut out weak signals.
7. To turn off the walkie-talkie, turn **OFF/VOLUME** counterclockwise until you hear it click.

TRANSMITTING

We recommend you try receiving transmissions before you try to transmit. Follow these steps to transmit.

1. Hold down **PTT** on the side of the walkie-talkie. **TX** appears and the signal meter shows the output level. Hold the walkie-talkie about 2–3 inches from your mouth and speak slowly and clearly in a normal tone of voice.



- When you finish transmitting, release PTT.

Note: If you transmit while the walkie-talkie is displaying a weather alert (see "Displaying Weather Messages" on Page 14), the alert tone turns off and WX flashes. To turn off the alert tone without transmitting, press ALERT OFF.


- To set the walkie-talkie to a low power level, press H/L. LOW appears. To set the walkie-talkie to its maximum power level, press H/L again. LOW disappears.
- To turn off the walkie-talkie, turn OFF/VOLUME counterclockwise until you hear it click.


TURNING THE DISPLAY LIGHT ON/OFF

Press LIGHT to turn the display's light on and off. If you do not turn the light off manually, it automatically turns itself off after about 5 seconds.

TURNING THE KEY TONE ON/OFF



You can set the walkie-talkie so it sounds a tone when you press any key except PTT.

To turn the key tone on, hold down BEEP for about 2 seconds.  appears and the walkie-talkie sounds a

beep when you press any key except PTT. To turn the key tone off, hold down BEEP for about 2 seconds.  disappears.

USING THE KEY LOCK



You can lock the walkie-talkie to prevent accidental setting changes. Locking the walkie-talkie locks all of its keys except PTT and LIGHT.

To lock the walkie-talkie, hold down LOCK for about 2 seconds until  appears. To unlock the walkie-talkie, hold down LOCK until  disappears.

USING CHANNEL 9/19

You can use CH9/19 to directly select Channel 9 or 19. Pressing CH9/19 once selects Channel 9 and 9 flashes. Pressing CH9/19 a second time selects Channel 19 and 19 flashes. Pressing CH9/19 a third time returns to the channel you previously selected.

Important! Channels 9 and 19 are reserved for motorist assistance and for reporting emergency information about accidents, hazardous road conditions, and so on. Always give emergency messages priority on Channels 9 and 19.

Note: You cannot change channels by pressing  or  when Channel 9 or 19 is selected.

SCANNING THE CHANNELS

You can set the walkie-talkie so it scans the CB or weather channels, stopping when it receives a strong signal on a channel.

To scan the channels, select the band you want to scan (see Step 3 under "Receiving Transmissions and Adjusting Squelch" on Page 12) then hold down **SCAN** for about 2 seconds. **SCAN** appears and the scanner scans through all channels in the band you selected.

To turn off scanning, hold down **SCAN** for about 2 seconds.

POWER SAVE

If you do not press any key or if the walkie-talkie does not receive any signal for about 10 seconds, the walkie-talkie automatically switches itself to battery save mode. **P. SAVE** flashes.

LISTENING TO THE WEATHER BAND

The FCC (Federal Communications Commission) has allocated channels for use by the National Oceanic and Atmospheric Administration (NOAA). Regulatory agencies in other countries have also allocated channels for use by their weather reporting authorities.

NOAA and your local weather reporting authority broadcast your local forecast and regional weather information on one or more of these channels.

Listening to a Weather Channel

To hear your local forecast and regional weather information, select the weather band (see Step 3 under "Receiving Transmissions and Adjusting Squelch" on Page 12). Your walkie-talkie scans through the weather band then stops within a few seconds on the strongest weather broadcast, and **WX** and the weather channel number appear.

Note: You cannot adjust the walkie-talkie's power level or switch to CB Channel 9/19 while listening to a weather channel.

Displaying Weather Messages

The weather service precedes each weather alert with a digitally-encoded **SAME** signal, then a 1050 Hz tone. If you are monitoring a weather channel with a digitally-encoded **SAME** signal when an alert is broadcast, the walkie-talkie sounds an alert and decodes and displays a code, showing the type of alert being broadcast.

Notes:

- The scanner does not display the actual location referenced by SAME messages. It uses only the message portion of the SAME signal.
- If severe weather threatens, do not wait for an alert tone; turn on the weather broadcast and monitor the weather information.

During inclement weather conditions, the weather service broadcasts event codes (codes that end with A, W, S, or B), and TOR (tornado), SVR (severe weather), and RWT (please add).

If the walkie-talkie receives any code ending in A (watch), it sounds a distinctive watch alert tone for about 10 seconds and WCH appears.

If the walkie-talkie receives any code ending in W (warning) or TOR or SVR, it sounds a distinctive warning alert tone for about 10 seconds and WRN appears.

If the walkie-talkie receives any code ending in S (statement) or RWT, it sounds a distinctive statement alert tone for about 10 seconds and SMT appears.

OPERATIONAL HINTS

Like most activities, CB radio has its customs and courtesies. The following tips will help you get the most enjoyment from your walkie-talkie.

Common Uses For a CB

Business Uses

- Truck drivers and delivery personnel can learn road and traffic conditions and get assistance in locating destinations. A CB is also good company on those "long hauls."
- On construction crews, a CB quickly pays for itself when you are calling for additional materials or coordinating the activities of different work crews.
- For security officers, a CB is more than a convenience – it is a must for both safety and efficiency.

Personal Uses

- Keep in touch with home while driving to work, to the store, or to a social activity. Let your family know you are tied up in traffic or that you will stop by the store on the way home.
- If you are a two-car (or more) family, CBs are great for communicating with family members while they are in their cars.
- Contact friends or neighbors – find out "what's happening" or plan a get-together.
- Ever have car trouble or run out of gas on the highway? What an

assurance it is to be able to call for assistance!

- Camping, fishing, and other sports are more fun with a CB. Locate a buddy or find out "what's cooking" back at camp.

- the surrounding terrain - mountains and tall buildings limit the range
- weather conditions
- the number of nearby CBs operating on the same channel

TRANSMISSION COURTESY

- Wait for a pause in someone else's transmission before you ask for a break.
- If you do not receive an answer to your call after a second attempt, sign off and wait several minutes before trying again.
- Do not hold down PTT when you are not talking. (This is called dead keying.)
- Assist callers with directions, information about road conditions, and any other reasonable requests.

Note: Your walkie-talkie's transmission range is generally line-of-sight. To ensure maximum range, always keep fresh or fully-charged batteries in your CB.

USING COMMON 10-CODES

Citizen's Band operators have largely adopted the 10-codes for standard questions and answers. These codes permit faster communication and better intelligibility in noisy areas. While not all codes are listed, most of the more popular ones follow:

Code	Meaning
10-1	Receiving poorly.
10-2	Receiving well.
10-3	Stop transmitting.
10-4	OK, message received.
10-5	Relay message.
10-6	Busy, please stand by.
10-7	Out of service.
10-8	In service
10-9	Repeat message.
10-10	Transmission completed, standing by.

MAXIMUM RANGE

The maximum range and quality of CB transmissions vary depending on the following conditions:

- the type and quality of antenna used
- the height of the antenna's mounting location - the higher the antenna, the better the signal's range

Code	Meaning
10-11	Talking too rapidly.
10-12	Visitors present.
10-13	Advise Weather/Road conditions.
10-17	Urgent business.
10-18	Anything for us?
10-19	Nothing for you. Return to base.
10-20	My location is _____.
10-21	Call by telephone.
10-22	Report in person to _____.
10-23	Please stand by.
10-25	Can you contact _____.
10-26	Disregard last information.
10-27	I am moving to channel _____.
10-28	Identify your station.
10-32	I will give you a radio check.
10-33	Emergency traffic.
10-36	Correct time is _____.
10-37	Wrecker needed at _____.
10-38	Ambulance needed at _____.
10-41	Please turn to channel _____.
10-42	Traffic accident at _____.
10-43	Traffic tie-up at _____.
10-50	Break channel.
10-62	Unable to copy; use telephone.
10-70	Fire at _____.

Note: Although this table lists the 10-codes' meanings in the form of a statement, they can also be phrased as questions (10-6: Are you busy?, 10-20: What is your location?).

Care and Maintenance

Your RadioShack Compact Deluxe CB Walkie Talkie is an example of superior design and craftsmanship. The following suggestions will help you care for your walkie talkie so you can enjoy it for years.



Keep the walkie-talkie dry. If it gets wet, wipe it dry immediately. Liquids might 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, damage batteries, and distort or melt plastic parts.



Keep the walkie-talkie away from dust and dirt, which can cause premature wear of parts.



Handle the walkie-talkie gently and carefully. Dropping it can damage circuit boards and cases and can cause the walkie-talkie to work improperly.



Use only fresh batteries of the required size and recommended type. Batteries can leak chemicals that damage your walkie-talkie's electronic parts.



Wipe the walkie-talkie with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the walkie-talkie.

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

Specifications

RECEIVER

Frequency Coverage (MHz)	26.965–27.405, 162.400–162.550
Sensitivity	0.5 μ V for 10 dB
Adjacent Channel Rejection [(S+N)/N]	60 dB
Squelch	Adjustable from 1 μ V
Audio Output Power (10% THD)	400 mW
Current Drain:	
Standby	80 mA
Receive	400 mA

TRANSMITTER

Frequency Coverage (MHz)	26.965–27.405
Power Input:	
High	4 W
Low	1 W
Power Output:	
High	3 W
Low	1 W
Conducted Spurious Emission Harmonics	70 dB
Type of Modulation	A3
Frequency Tolerance	0.002%
Antenna Impedance	50 Ohms
Current Drain:	
High (@ Max. Modulation)	1.3 A
Low	700 mA
Dimensions (HWD)	2 ¹ / ₈ x 6 ¹³ / ₁₆ x 1 ³ / ₄ in (54 x 172.5 x 45 mm)
Weight (without batteries)	11 oz 318 g)

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