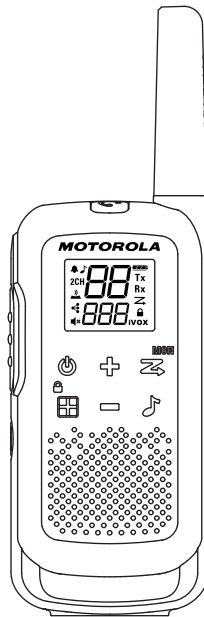


T62

OWNER'S MANUAL



RF ENERGY EXPOSURE AND PRODUCT SAFETY GUIDE FOR PORTABLE TWO-WAY RADIOS

ATTENTION!

Before using this product, read the RF Energy Exposure and Product Safety Guide that ships with the radio which contains instructions for safe usage and RF energy awareness and control for compliance with applicable standards and regulation.

Package Contents

Package Content	T62
Radio	2
Belt clip	2
Battery	2
Power Supply	1
Stickersheet(16pcs)	1
Owner's manual	1

Personalization Stickers:

Stickers are provided in order to personalize and keep track of radios. Use permanent marker for the blank stickers.

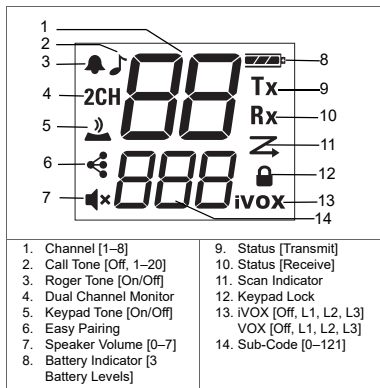
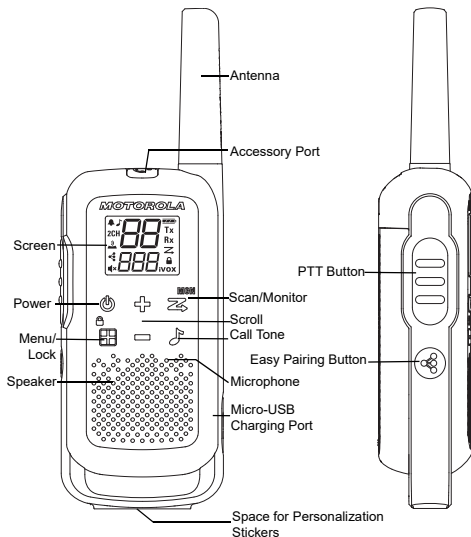
Frequency Chart

Ch.	Freq. (MHz)	Ch.	Freq. (MHz)	Ch.	Freq. (MHz)
1	446.00625	4	446.04375	7	446.08125
2	446.01875	5	446.05625	8	446.09375
3	446.03125	6	446.06875		

Features and Specifications

- 8 PMR Channels.
 - 121 Sub-Codes (38 CTCSS Codes & 83 DCS codes)
 - Up to 8 km Range*
 - iVOX/VOX
 - Easy Pairing
 - 20 Selectable Call Tone Alerts
 - Backlit LCD Display
 - Roger Tone
 - Micro USB Connector for charging
 - Battery Level Meter
 - Channel Monitor
 - Channel Scan
 - Dual Channel Monitor
 - Keypad Lock
 - Auto Squelch Control
 - Auto Repeat (Scrolling)
 - Battery Low Alert
 - Keypad Tone (On/Off)
 - Power Source: NiMH battery Pack/3 x AA Alkaline batteries
 - Battery Life: 16 Hours (under typical use conditions)
- Note: *Range may vary depending on environmental and/or topographical conditions.

Radio Control Buttons and Display



Installing the Batteries

Each radio can either use a NiMH rechargeable battery pack or three units of AA Alkaline Battery, and beeps when the batteries are low.

1. Make sure your radio is turned off.
2. To remove the battery compartment door, press the tab at the bottom of the compartment door.
3. For NiMH battery pack, insert the battery pack with the ⊕ and ⊖ signs facing you. Observe polarity.
For AA Alkaline batteries, insert the batteries. Observe polarity.
4. Close the battery compartment door.

Low Battery Alert: When the battery is low, the radio produces an audio alert periodically and after each PTT transmission.

Battery Capacity Maintenance

1. Charge the NiMH batteries once every three months when not in use.
2. For storage purposes, remove the battery from the radio.
3. Store the NiMH batteries in a temperature between -20 °C to 35 °C and in low humidity. Avoid damp conditions and corrosive materials.

Using the Micro-USB Charger

The micro-USB charger allows you to charge your NiMH battery pack.

1. Power off your radio before start charging.
2. Plug the micro-USB cable into the micro-USB charging port on your radio.
3. Connect the USB charger to a nearby and easily accessible wall power outlet.

4. An empty battery will be fully charged in 8 hours.
5. The battery meter bar will scroll when the battery is charging.

Note: When moving between hot and cold temperatures, do not charge the NiMH battery pack until the temperature acclimates (usually about 20 minutes).
For optimal battery life, remove the radio from the charger within 16 hours. Do not store the radio while connected to the charger.

Turning your Radio On and Off

Press and hold the Power button to turn the radio on or off.

1. In the on position, the radio chirps and briefly shows all feature icons available on the radio.
2. The display screen then shows the current channel, code, and all features that are enabled.

Setting the Volume

From Standby Mode, press on either ⊕ or ⊖ to show the current value. Press ⊕ or ⊖ again to adjust the volume setting.

1. Press ⊕ to increase the speaker volume.
2. Press ⊖ to decrease the speaker volume.

Do not hold the radio close to your ear. If the volume is set to an uncomfortable level, it could hurt your ear. Adjust '0' to mute the speaker.

Talking and Listening

All radios in your group must be set to the same channel and Sub-Code in order to communicate.

1. Hold your radio 2–3 cm from your mouth.


2. Press and hold the PTT button while speaking. The Transmit **Tx** icon appears on the display.
3. Release the PTT button. You can now receive incoming calls. When you do, the Receive **Rx** icon appears on the display.

For maximum clarity, hold the radio 2 to 3 cm away and avoid covering the microphone while talking.

Talk Range

Your radio is designed to maximize performance and improve transmission range. Ensure the radios are at least 5 feet apart when in used.

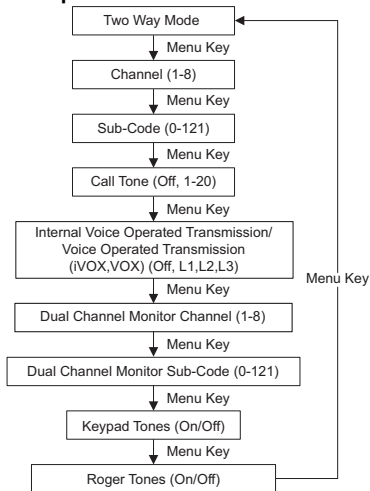
Monitor Button

Pressing and holding  Scan/Monitor for 3 seconds to enter Monitor mode and listen for weak signals on the current channel. You can also listen to the volume level of the radio when you are not receiving. This allows you to adjust the volume, if necessary.

Push-to-Talk Time-out Timer





To prevent accidental transmissions and save battery life, the radio emits a continuous warning tone and stops transmitting if you press the PTT button for 60 seconds continuously.

Menu Options



Selecting the Channel





The channel is the frequency of the radio uses to transmit.

1. Press  Menu until the channel number starts to flash.
2. Press  or  to change the channel. Long press on these keys allows you to scroll through the channels rapidly to browse the codes.
3. Press PTT button to exit menu or  Menu to continue set up.

Selecting the Sub-Code

Sub-Codes help minimize interference by blocking transmissions from unknown sources. Your radio has 121 Sub-Codes.





To set the code for a channel:


1. Press  Menu until the code starts to flash.
2. Press  or  to select the code. You can hold down the button to speed up scrolling through the codes.
3. Press the PTT button to exit menu or  Menu to continue set up.


Setting and Transmitting Call Tones

Your radio can transmit different call tones to other radios in your group so you can alert them that you want to talk. Your radio has 20 call tones for you to choose from.

To set a call tone:


1. Press  Menu until the Call Tone  icon appears. The current call tone setting will flash.
2. Press  or  to change and listen to the call tone.

3. Press the PTT button to exit menu or  Menu to continue set up.



In order to transmit your call tone to other radios, set up the same channel and Sub-Code on your radio and press  Call Tone.

Easy Pairing

The Easy Pairing feature allows a group of radio users to program all their radios to the same Channel and Sub-Code settings quickly and simultaneously. Any one radio within the group can be designated as the “Leader’s radio” and have it’s Channel and Sub-Code settings transmitted to and copied by all the other radios in the group (Members’ radios).

1. Pick any one of the radios as the “Leader’s radio”. On this radio, program the Channel and Sub-Code to the desired settings. (See “Selecting the Channel” and “Selecting the Sub-Code” sections in this user manual)
2. To copy the channel and Sub-Code combination to all the other “Members’ radios”, press and hold the  button on the Members’ radios until you hear a beep. Release the button after the beep, and wait for the transmission from the Leader’s radio.

Note:

- You will see the  icon blinking on the display. This confirms that the radio is in Easy Pairing mode waiting to receive the Channel and Sub-Code settings from the Leader’s radio. All Members’ radios will remain in this mode for 3 minutes.
 - A group with many radios should have all users take this step at the same time, so all radios can be programmed in one go.
3. On the Leader’s radio, press and hold down the  button until you hear a double beep.





Note:

- At the double beep, this radio's Channel and Sub-Code settings will be transmitted, which will be received and copied by all the other (Members') radios.
- The Leader's radio must make this transmission when all the Members' radios are still in the Easy Pairing mode, otherwise the transmission will not be picked up.
- On the Leader's radio, user must remember not to release the button on the first (single) beep, otherwise this radio will become another Member's radio. If that happens, you can press PTT to escape, and retry the steps described in #3 again.

Internal Voice Operated Transmission/ Voice Operated Transmission (iVOX/VOX)

Transmission is initiated by speaking into the microphone of the radio/audio accessory instead of pushing the PTT button.

L3 = High Sensitivity for quiet environments
L2 = Medium Sensitivity for most environments
L1 = Low Sensitivity for noisy environments








1. Press  Menu until the **iVOX** icon appears on the display. When audio accessory is connected, the **VOX** icon will be shown. The current setting (Off, L1–L3) will flash.
2. Press  or  to select the sensitivity level.
3. Press the PTT button to exit menu or  Menu to continue set up.

Note: When using iVOX/VOX, there will be a short delay.

Dual Channel Monitor

Enables you to scan the current channel and another channel alternately.






To set another channel and start Dual Channel Monitor:

1. Press  Menu until the Dual Channel Monitor **2CH** icon appears. The Dual Channel Monitor icon will flash.
2. Press  or  to select the channel then press  Menu.
3. Press  or  to select the Sub-Code.
4. Press the PTT button or wait until time out to activate Dual Channel Monitor. The screen will alternate between home channel and Dual Channel Monitor channel.
5. To end Dual Channel Monitor, press  Menu.

Note: If you set the same channel and Sub-Code as the current channel, Dual Channel Monitor does not work.






Keypad Tones

You may enable or disable the keypad tones. You will hear the key tone each time a button is pushed.

1. Press  Menu until the Keypad Tone  icon appears. The current setting on/off will flash.
2. Press either  or  to turn on/off.
3. Press the PTT button to confirm or  Menu to continue set up.





Roger Tone

You can set your radio to transmit a unique tone when you finish transmitting. It is like saying "Roger" or "Over" to let others know you have finished talking.

1. Press  Menu until the Roger Tone  icon appears. The current setting on/off flashes.
2. Press  or  to turn on or off.
3. Press the PTT button to set or  Menu to continue set up.

Keypad Lock

To avoid accidentally changing your radio settings:

1. Press and hold  Menu/Lock until the Key Lock Indicator  icon displays.
2. You can turn the radio on and off, adjust the volume, receive, transmit, send a call tone, send Emergency Alert, and monitor channels when in the lock mode. All other functions remain locked.
3. Press  Menu/Lock and hold until the  Key Lock Indicator is no longer displayed to unlock the radio.

Scanning




Use the scan function to do the following:

- Search all channels for transmissions from unknown parties.
- Find someone in your group who has accidentally changed channels or
- To quickly find unused channels for your own use.



There is a priority feature and two modes of scanning (basic and advanced) to make your search more effective.

- The “Basic Scan” mode uses the channel and code combinations for each of the channel as you have set them (or with the default code value of 1).
- The “Advance Scan” mode will scan all channels for any and all codes; detect any code in use and use that code value temporary for that channel.
- Priority is given to the “Home Channel” (i.e. the channel and Sub-Code your radio is set to when you start the scan). This means the initial channel (and code settings) is scanned more often than the other seven channels and your radio will respond quickly to any activity occurring on the home channel as a priority.


To start Basic Scanning:

1. Press the  Scan/Monitor button briefly. The Scan  icon will appear in the display and the radio will begin to scroll through the channel and code combinations.
2. When the radio detects channel activities matching the channel and Sub-Code combination, the radio will stop scrolling and you can hear the transmission.
3. Press the PTT button within 5 seconds after the end of the transmission to respond and talk to the person transmitting.
4. The radio will resume scrolling through the channels 5 seconds after the end of any received activity.
5. Press the  Scan/Monitor button briefly to stop scanning.







To start Advanced Scanning:

1. Set home channel's Sub-Code to “zero” or off.
2. Press the  Scan/Monitor button briefly. The Scan  icon will appear in the display and the radio will begin to

scroll through the channels. No Sub-Codes will filter what is heard.

3. When the radio detects channel activities with any code (or no code), it stops scrolling and you can hear the transmission. Any Sub-Code that may be use by other party will be detected and displayed.
4. To respond and talk to the person transmitting, press the PTT button within 5 seconds after the end of the transmission.
5. The radio will resume scrolling through the channels 5 seconds after the end of any received activity.
6. Press the  Scan/Monitor button briefly to stop scanning.

Note:

1. The transmission will be on the "Home Channel" if you press the PTT button while the radio is scrolling through inactive channels. You may press the  Scan/Monitor button to stop scanning at any time.
2. You may immediately resume the scan by briefly pressing  or  if the radio stops on an undesired transmission.
3. You may temporarily remove that channel from the scan list by pressing and holding  or  for 3 seconds if the radio stops repeatedly on an undesired transmission. You may remove more than one channel this way.
4. Turn the radio off and then turn back on, or exit and re-enter the scanning mode by pressing  Scan/Monitor to restore and remove channel(s) to the scan list.
5. You cannot remove the "Home Channel" from the scan list.
6. In the Advanced Scan, the detected code will only be used for one transmission. You must take note of that code, exit scan, and set the detected code on that channel to permanently use.

Warranty Information

The authorized Motorola Solutions dealer or retailer where you purchased your Motorola Solutions two-way radio and/or original accessories will honour a warranty claim and/or provide warranty service.

Please return your radio to your dealer or retailer to claim your warranty service. Do not return your radio to Motorola Solutions.

In order to be eligible to receive warranty service, you must present your receipt of purchase or a comparable substitute proof of purchase bearing the date of purchase. The two-way radio should also clearly display the serial number. The warranty will not apply if the type or serial numbers on the product have been altered, deleted, removed, or made illegible.

What Is Not Covered By The Warranty

- Defects or damage resulting from use of the Product in other than its normal and customary manner or by not following the instructions in this user manual.
- Defects or damage from misuse, accident or neglect.
- Defects of damage from improper testing, operation, maintenance, adjustment, or any alteration or modification of any kind.
- Breakage or damage to aereals unless caused directly by defects in material or workmanship.
- Products disassembled or repaired in such a manner as to adversely affect performance or prevent adequate inspection and testing to verify any warranty claim.
- Defects or damage due to range.
- Defects or damage due to moisture, liquid or spills.
- All plastic surfaces and all other externally exposed parts that are scratched or damaged due to normal use.
- Products rented on a temporary basis.
- Periodic maintenance and repair or replacement of parts due to normal usage, wear and tear.

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MN003706A02-AB

Printed in