TALKABOUT® TWO-WAY RADIO T21X, T27X SERIES

USER GUIDE

| en-US | fr-CA | es-LA | pt-BR |

MOTOROLA *SOLUTIONS*

SAFETY AND GENERAL INFORMATION

Caution

Before using this radio, read this booklet which contains important operating instructions.

For information on product details, brochures, user manuals and approved accessories. Please refer to *www.motorolasolutions.com*.

Compliance with RF Exposure Standards

National and international regulations require manufacturers to comply with the RF energy exposure limits for portable two-way radios before they can be marketed. Your Motorola Solutions two-way radio is designed, manufactured, and tested to comply with all applicable national and international regulations for human exposure to radio frequency electromagnetic energy.

RF Energy Exposure Awareness and Control Information and Operational Instructions for General Population and Uncontrolled Environment Use

For more information on what RF energy exposure is, see the following websites:
* https://www.fcc.gov/
* http://www.who.int/peh-emf/project/en/
* http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf11467.html

* http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf01904.html

For additional information, see https://www.motorolasolutions.com/en_us/about/company-overview/corporate-responsibility/governance-and-policies.html

Operating Instructions

* Transmit no more than 50% of the time. To transmit (talk), press the Push-To-Talk (**PTT**) button. To receive calls, release the **PTT** button.
* Hold the radio in a vertical position in front of the face with the microphone (and other parts of the radio including the antenna) at least 1 in. (2.5 cm) away from the nose or lips. Antenna should be kept away from the eye.
* When worn on the body, always place the radio in a Motorola Solutions-approved clip, holder, holster, case, or body harness for this product.
* DO NOT hold the antenna when the radio is transmitting.
* DO NOT use any portable radio that has a damaged antenna. If a damaged antenna comes into contact with your skin, a minor burn can result.
* To ensure continued compliance with applicable RF exposure limits, use only Motorola Solutions-approved, supplied or replacement antennas, batteries, and accessories.
* For a list of Motorola Solutions-approved accessories please refer to your user manual or visit *www.motorolasolutions.com*

Acoustic Safety

Exposure to loud noises from any source for extended periods of time may temporarily or permanently affect your hearing. The louder the volume of the radio, the sooner your hearing will be affected. Hearing damage from loud noise is sometimes undetectable at first, and can have a cumulative effect.

To protect your hearing, follow these precautions:

- Use the lowest volume necessary to do your job.
- Turn up the volume only if you are in noisy surroundings.
- Turn down the volume before putting on a headset or headphones.
- Limit the amount of time you use a headset or headphones at high volume.
- When using the radio without a headset or headphones, do not place the speaker of the radio directly against your ear.

Medical Devices

If you use a personal medical device, such as a pacemaker or hearing aid, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this information.

Holsters Incorporating Magnets

Some Motorola Solutions holsters incorporate strong, neodymium magnets. If you use a personal medical device, such as a pacemaker or hearing aid, consult the manufacturer of your device to

determine if it can be used in close proximity to magnets. Your physician may be able to assist you in obtaining this information. Also be aware that magnets can damage other products, including cell phones, computers, hard drives, and other electronic devices, as well as credit cards and magnetic media. Keep the holster away from any mechanical device that could be affected by a magnetic field. Consult the manufacturer of your product to determine if your device or product can be used in close proximity to magnets.

Operational Warnings

The following explains the operational warnings:

For Vehicle With Air Bags

⚠️ WARNING	**Warning:** • Refer to vehicle manufacturer's manual prior to installation of electronic equipment to avoid interference with air bag wiring. • DO NOT place a portable radio in the area over an air bag or in the air bag deployment area. Air bags inflate with great force. If a portable radio is placed in the air bag deployment area and the air bag inflates, the radio may be propelled with great force and cause serious injury to occupants of the vehicle.

Potentially Explosive Atmospheres

Blasting Caps and Blasting Areas

Batteries

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Do Not Substitute Options or Accessories

The Motorola Solutions communications equipment certified as intrinsically safe by the approving agency (FM, UL, CSA, CENELEC) is tested as a complete system which consists of the listed agency approved portable, approved battery, and approved accessories or options, or both. This approved portable and battery combination must be strictly observed.

There must be no substitution of items, even if the substitute has been previously approved with a different Motorola Solutions communications equipment unit. Approved configurations are listed by the approving agency (FM, UL, CSA, CENELEC).

The Intrinsically Safe Approval Label affixed to radio refers to the intrinsically safe classification of that radio product, and the approved batteries that can be used with that system.

The manual PN referenced on the Intrinsically Safe Approval Label identifies the approved accessories and or options that can be used with that portable radio unit.

Using a non-Motorola Solutions-intrinsically safe battery and/or accessory with the Motorola Solutions-approved radio unit will void the intrinsically safe approval of that radio unit.

European Union (EU) Waste of Electrical and Electronic Equipment (WEEE) Directive

The European Union's WEEE directive requires that products sold into EU countries must have the crossed out trash bin label on the product (or the package in some cases). As defined by the WEEE directive, this cross-out trash bin label means that customers and end-users in EU countries should not dispose of electronic and electrical equipment or accessories in household waste. Customers or end-users in EU countries should contact their local equipment supplier representative or service centre for information about the waste collection system in their country.

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Supplier's Declaration of Conformity

Class B Digital Device

As a personal computer peripheral, this device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio or TV technician for help.

Notice to Users (FCC and Industry Canada)

This device complies with Part 15 of the FCC rules and Industry Canada's license-exempt RSS's per the following conditions:

• This device may not cause harmful interference.
• This device must accept any interference received, including interference that may cause undesired operation.
• Changes or modifications made to this device, not expressly approved by Motorola Solutions, could void the authority of the user to operate this equipment.

LICENSING INFORMATION

USA (FCC)/CANADA (ISED)

According to FCC Part 95, FRS devices do not require a license. Use of Motorola radio in Canada is subject to the rules and regulations in ISED RSS 210 and do not require a license.

Changes or modifications not expressly approved by Motorola Solutions may void the user authority granted by the FCC or ISED to operate this radio and should not be made. To comply with FCC or ISED requirements, transmitter adjustments should be made only by or under the supervision of a person certified as technically qualified to perform transmitter maintenance and repairs in the private land mobile and fixed services as certified by an organization representative of the user of those services. Replacement of any transmitter component (crystal, semiconductor, etc) not authorized by the FCC or ISED equipment authorization for this radio could violate FCC or ISED rules.

Note: Use of this radio outside the country where it was intended to be distributed is subject to government regulations and may be prohibited

Mexico and Panama

Mexico and the Republic of Panama do not require authorization to use FRS radio equipment frequencies.

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Chile

Servicio de Banda Local UHF frequency use is subject to SUBTEL Resolution 1.261 and Resolution 52 Exenta. A license is required for use in Chile.

To obtain a Banda Local end-user license:

1. Fill out the required form to request Local Band service.

Table 1: Location to Obtain the Application Form for Local Band Service

Location	Description
SUBTEL Website	http://www.subtel.gob.cl/index.php?option=com_content&view=article&id=1388&Itemid=2087
SUBTEL Office	Subsecretaria de Telecomunicaciones Unidad de Licencias y Permisos Lorenzo Gotuzzo N°124, piso 6 Santiago, Chile Telephone Number: (56-2) 421 3634

2. Present this form with your ID at the SUBTEL office.

3. Consult the SUBTEL office for applicable fees.

For more information, consult SUBTEL at http://www.subtel.cl or call their office.
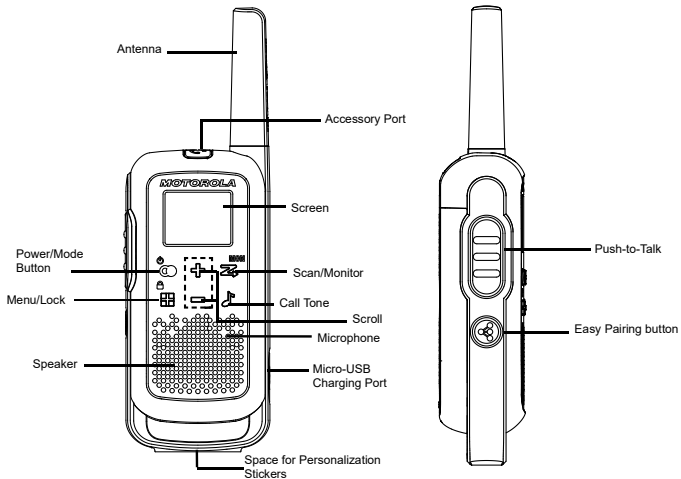
Peru
Colectivo Familiar frequency use is subject to MTC RVM 388-200-MTC/ 15.03 and FCC (FRS), Part 95B. No license is required for use in Peru. Consult MTC Peru at http://www.mtc.gob.pe for more information.
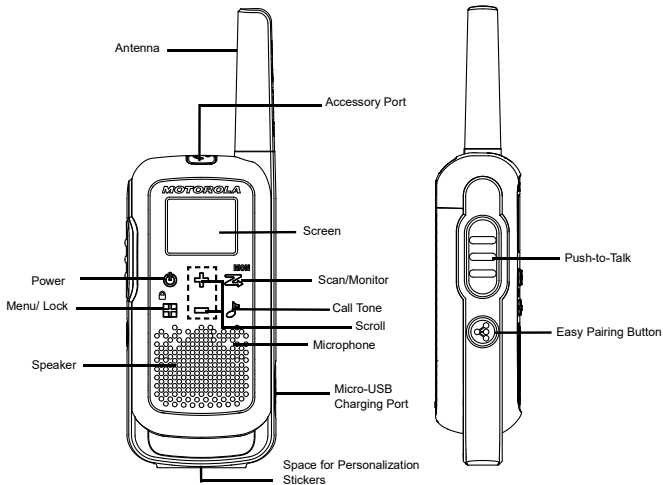
Brazil
The frequency general use is subject to the Resolution nº 680 and to the Act nº 14448, Item 15 - Radio Communication Equipment of General Use. It is not required use license in Brazil. See the Anatel site for more information: *http://www.anatel.gov.br*.

CONTROL BUTTONS
T27X Control Buttons

Antenna

Accessory Port

Screen

Power/Mode Button

Scan/Monitor

Menu/Lock

Call Tone

Scroll

Microphone

Speaker

Micro-USB Charging Port

Push-to-Talk

Easy Pairing button

Space for Personalization Stickers

T21X Control Buttons

Antenna

Accessory Port

Screen

Power

Menu/ Lock

Scan/Monitor

Call Tone

Scroll

Microphone

Speaker

Micro-USB Charging Port

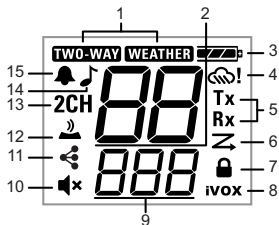Space for Personalization Stickers

Push-to-Talk

Easy Pairing Button

Display Screen Guide

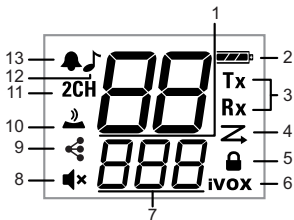T27X Display

T21X Display

1. Mode	9. Interference Eliminator Code Number (used for Call Tone), On/Off, L0/L1/L2/L3 (used for iVOX and VOX)
2. Channel	
3. Battery Indicator (3 Battery Levels)	
4. Weather Alert	10. Speaker Volume (0-7)
5. Transmit and Receive Status	11. Easy Pairing [On/Off]
6. Scan	12. Keypad Tone [On/Off]
7. Keypad Lock	13. Dual Watch [On/Off]
8. iVOX [OFF, L1, L2, L3] VOX [OFF, L1, L2, L3]	14. Call Tone (number)
	15. Roger Tone [On/Off]

1. Channel	7. Interference Eliminator Code Number (used for Call Tone and Speaker Volume), On/Off, L0/L1/L2/L3 (used for iVOX and VOX)
2. Battery Power (3 Battery Levels)	
3. Transmit and Receive Status	
4. Scan	8. Speaker Volume (0-7)
5. Keypad Lock	9. Easy Pairing [On/Off]
6. iVOX [OFF, L1, L2, L3] VOX [L1, L2, L3]	10. Keypad Tone [On/Off]
	11. Dual Watch [On/Off]
	12. Call Tone (number)
	13. Roger Tone [On/Off]

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Note: The mode button is only available for T27X.

Note: The Weather Alert is only available for T27X.

GETTING STARTED

Personalization Stickers

Stickers are provided to personalize and keep track of radios. You can use permanent markers for blank stickers.

Installing the Batteries

Discard the retailer tag (loose in one of the battery compartments) before installing the batteries. Each radio can use either one NiMH rechargeable battery pack or three AA alkaline batteries and beeps when the batteries are low.

1. Turn the radio off.

2. With the back of the radio facing you, lift the battery cover latch up and remove the cover.

3. To insert the NiMH battery pack by following the instruction on the battery pack. (The ribbon must be underneath the battery pack and must wrap around the right side of the pack for easy removal).

4. To insert the three AA Alkaline batteries with + and – polarity as shown inside. (The ribbon must be underneath the AA alkaline batteries and must wrap around the right side of the batteries).

5. Attach the battery cover and lock it by pressing down the latch.

Radio Battery Meter

The number of bars (**0–3**) on the Radio Battery icon shown indicates the charge remaining in the battery. When the radio battery meter shows one segment left, the radio chirps periodically or after releasing the **PTT** button (Low Battery Alert).

Battery Capacity Maintenance

1. Charge the NiMH batteries once every 3 months when not in use. After longer lapse, the start of charging in radio is delayed and can take up to five minutes.

2. Before placing the radio in storage, remove the battery.

3. Batteries corrode over time and may cause permanent damage to your radio.

4. Store the NiMH batteries in 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 conveniently charge your NiMH battery pack.

1. Power OFF your radio before you 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.

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4. An empty battery is fully charged in 8 hours.

5. The battery meter bar scrolls when the battery is charging.

Note:

- When moving between hot and cold temperatures, do not charge the NiMH battery pack until the battery 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.

Attaching and Removing the Belt Clip

1. Attach the belt clip to the belt clip slot at the back of the radio until the clip clicks in place.

2. Attach the belt clip to pocket or belt strap until the clip clicks in place.

To Remove

1. Pull the release tab on top of the belt clip to release the latch.

2. Push the belt clip with the other hand towards the top of radio.

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.

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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.

Note: 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

To communicate, all radios in your group must be set to the same channel and Interference Eliminator Code.

1. To talk, press and hold the **PTT** button. When transmitting, **TWO-WAY** icon blinks (only on radio with **weather** mode feature) and **Tx** is shown.

2. When you are finished talking, release the **PTT** button.

3. When receiving, **TWO-WAY** icon blinks (only on radio with **weather** mode feature) and **Rx** is shown.

For maximum clarity, hold the radio one inch away from your mouth and speak directly into the

microphone. Do not cover the microphone while talking.

Talk Range

Your radio is designed to maximize performance and improve transmission range. Do not use the radios closer than 5 ft apart.

Monitor Button

Press and hold ⌕ Scan/Monitor button for three 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 Timeout 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 more than 60 continuous seconds.

Mode Button (Only on Radio with Weather Mode Feature)

By pressing **Mode** button, the user seamlessly switches between two-way and weather mode.

When radio is in two-way mode, **TWO-WAY** is shown. When radio is in weather mode,

WEATHER ** is shown. Corresponding setting and information is shown on the display.

MENU OPTION
USA, Canada, and Latin America
Two-Way Menu

```
            ┌──────────────────┐◄─────────────┐
            │  Two Way Mode    │              │
            └──────────────────┘              │
                  │ Menu Key                  │
            ┌──────────────────┐              │
            │  Channel (1-22)  │              │
            └──────────────────┘              │
                  │ Menu Key                  │
            ┌──────────────────┐              │
            │ Sub-Code (0-121) │              │
            └──────────────────┘              │
                  │ Menu Key                  │
            ┌──────────────────┐              │
            │ Call Tone (Off, -1-20) │        │
            └──────────────────┘              │
                  │ Menu Key                  │
   ┌────────────────────────────────────┐     │
   │ Internal Voice Operated Transmission/ │   │
   │ Voice Operated Transmission         │     │
   │ (iVOX, VOX) (Off, L2, L3)           │     │
   └────────────────────────────────────┘     │  Menu Key
                  │ Menu Key                  │
   ┌────────────────────────────────────┐     │
   │ Dual Channel Monitor Channel (1-22) │     │
   └────────────────────────────────────┘     │
                  │ Menu Key                  │
   ┌────────────────────────────────────┐     │
   │ Dual Channel Monitor Sub-Code (0-121) │   │
   └────────────────────────────────────┘     │
                  │ Menu Key                  │
            ┌──────────────────┐              │
            │ Keypad Tones (On/Off) │         │
            └──────────────────┘              │
                  │ Menu Key                  │
            ┌──────────────────┐              │
            │ Roger Tones (On/Off) │──────────┘
            └──────────────────┘
```

```
            ┌──────────────────┐
            │  Two Way Mode    │
            └──────────────────┘
                  ↕ Mode Button
            ┌──────────────────┐◄─────────┐
            │  Weather Mode    │          │
            └──────────────────┘          │
                  │ Menu Button           │
   ┌────────────────────────────┐         │ Menu Button
   │ Weather Channel (1-11)     │         │
   └────────────────────────────┘         │
                  │ Menu Button           │
   ┌────────────────────────────┐         │
   │ Weather Alert (On/Off)     │─────────┘
   └────────────────────────────┘
```

Note: Weather channel broadcasts is available in US and Canada only.

Selecting the Channel

Each country model has different number of channels and frequencies. (See the "Channels and Frequencies" table on overleaf for details).

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1. With the radio on, press 🔒 **Menu/Lock** button 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.

3. Press the **PTT** button to save the channel setting and exit Menu or 🔒 **Menu/Lock** button to continue set up.

Selecting the Interference Eliminator Code

Interference Eliminator Codes help minimize interference by blocking transmissions from unknown sources. Your radio has 121 Interference Eliminator Codes. Codes 1–38 are standard analog codes that appear on other FRS radios. Codes 39–121 are additional digital codes added for superior interference protection. 0 is the off position, no analog or digital codes are enabled.

To set the code for a channel:

1. Press 🔒 **Menu/Lock** button until the code starts to flash.

2. Press ⊕ or ⊏ to select the code. Long press on these keys allows you to scroll through the code rapidly.

3. Press the **PTT** button to save the code setting and exit Menu or 🔒 **Menu/Lock** button to continue set up.

You can set a different code for each channel using this procedure.

Note: On a radio that uses Interference Eliminator Codes, the code must be set to 0 to communicate with radios that do not have Interference Eliminator Codes. Select 0 for "no tone, no code" on the display of your radio.

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 from which to choose.

To set a call tone:

1. Press 🔒 **Menu/Lock** until ♪ appears. The current call tone setting flashes.

2. Press ⊕ or ⊏ to change and hear the call tone.

3. Press the **PTT** button to set the new call tone and exit Menu or 🔒 **Menu/Lock** button to continue set up.

To transmit your call tone to other radios set up to the same channel and Interference Eliminator Code on your radio, and press ♪ **Call Tone** button.

Note: Setting the call tone to OFF to disable the call tone feature.

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English

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 is shown. The current setting (Off, L1–L3) flashes.

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 Watch Mode

Enables you to scan the current channel and another channel alternately.
To set another channel and start Dual Watch.

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1. Press 🔒 **Menu/Lock** until 2CH appears. The 2CH flashes.

2. Press ⊕ or ⊟ to select the channel, then press 🔒.

3. Press ⊕ or ⊟ to select the code.

4. Press the **PTT** button or wait until the time out to activate Dual Watch. The screen alternates between Home Channel and Dual Watch Channel.

5. To end Dual Watch mode, Press 🔒 icon.

Note: If you set the same channel and code as current channel, Dual Watch does not work.

Keypad Tones

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

1. Press 🔒 **Menu/Lock** button until ♪ appears. The current setting On/Off flashes.

2. Press either ⊕ or ⊟ to turn On or Off.

3. Press the **PTT** button to confirm and exit Menu or 🔒 **Menu/Lock** button to continue set up.

Note: When the keypad tone feature is off, the following are not disabled:

• Transmit timeout alert tone
• Call tone
• Low battery alert tone or

- The transmitted talk confirmation tone

Transmitting a Talk Confirmation 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 are finished talking.

1. Press 🔒 **Menu/Lock** button until the 🔔 appears. The current setting On/Off flashes.

2. Press ⊕ or ⊟ to turn On or Off.

3. Press the **PTT** button to set and exit Menu or 🔒 to continue set up.

SPECIAL FEATURES

Keypad Lock

*To avoid accidentally changing your radio settings:*

1. Press and hold 🔒 **Menu/Lock** button until 🔒 displays.

2. When in lock mode, you can turn the radio ON and OFF, adjust the volume, receive, transmit, send a call tone, and monitor channels. All other functions are locked.

3. To unlock the radio, press and hold 🔒 **Menu/Lock** button until 🔒 is no longer displayed.

Easy Pairing

The Easy Pairing feature allows a group of radio users to program all their radios to the same Channel and Interference Eliminator 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 Interference Eliminator 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 Interference Eliminator Code to the desired settings.(See "Selecting the Channel" and "Selecting the Interference Eliminator Code" sections in this user manual.)

2. To copy the channel and Interference Eliminator 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:

- The ◁ icon blinks on the display. This confirms that the radio is in Easy Pairing mode waiting to receive the Channel and Interference Eliminator Code settings from the Leader's radio. All Members' radios remains 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.

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Note:

- At the double beep, this radio's Channel and Interference Eliminator Code settings is transmitted, which is 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 is not picked up.
- On the Leader's radio, user must remember NOT to release the button on the first (single) beep, otherwise this radio becomes another Member's radio. If that happens, you can press **PTT** to escape, and retry step 3.

Scanning Channels

Use scan to search all channels for transmissions from unknown parties, to 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 channels as you have set them (or with the default code value of 1). The "Advanced Scan" mode scans all channels for any and all codes, detect any code in use and use that code value temporarily for that channel.

Priority is given to the "home channel", that is, the channel (and Interference Eliminator 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 channels and your radio responds quickly to any activity occurring on the home channel as a priority.

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To start Basic Scanning:

1. Briefly press the ⚏ Scan/Monitor button. The scan ⚏ appears in the display and the radio begins to scroll through the channel and code combinations.

2. When the radio detects channel activity matching the channel and code combination, it stops scrolling and you can hear the transmission.

3. To respond and talk to the person transmitting, press the **PTT** button within five seconds after the end of the transmission.

4. The radio resumes scrolling through the channels 5 seconds after the end of any received activity.

5. To stop scanning, briefly press the ⚏ Scan/Monitor button.

To start Advanced Scanning:

1. Set the Interference Eliminator Code to "zero" or OFF.

2. Briefly press the ⚏ Scan/Monitor button. The scan ⚏ appears in the display and the radio begins to scroll through the channels. No Interference Eliminator Codes filters what is heard.

3. When the radio detects channel activity with ANY code (or NO code), it stops scrolling and you can hear the transmission. Any Interference Eliminator Code that may be in use by that party is detected and displayed.

4. To respond and talk to the person transmitting, press the **PTT** button within 5 seconds of the end of the

transmission. The radio transmits using the newly detected Interference Eliminator Code.

5. The radio resumes scrolling through the channels 5 seconds after the end of any received activity.

6. To stop scanning, briefly press the 🔊 Scan/Monitor button.

Scanning Notes:

1. If you press the **PTT** button while the radio is scrolling through inactive channels, the transmission is on the "home channel". Scanning resumes five seconds after the end of your transmission. You may press the

   🔊 Scan/Monitor button to stop scanning at any time.

2. If the radio stops on an undesired transmission, you may immediately resume the scan by briefly pressing ⬆ or ⬇.

3. If the radio repeatedly stops on an undesired transmission, you may temporarily remove that channel from the scan list by pressing and holding ⬆ or ⬇ for 3 seconds. You may remove more than one channel in this way.

4. To restore the removed channel(s) to the scan list, turn the radio off and then turn back on, or exit and re-enter

   the scanning mode by pressing 🔊 Scan/Monitor button.

5. You cannot remove the home channel from the scan list.

6. In Advanced Scan, the detected code is only used for one transmission. You must note that code, exit scan and

set that detected code on that channel to permanently use the detected code.

WEATHER RECEIVER

Note: Weather feature is not available on model T21X. Weather feature is available on model T27X designed for use in USA and Canada.

Your radio can tune in to broadcasts by the United States National Oceanic and Atmospheric Administration (NOAA) Weather Radio and Environment and Climate Change Canada (ECCC) Weather Radio.You can listen to a weather channel (see "Weather Channels and Frequencies" table for details) or set your radio to alert you to emergency weather broadcasts that interrupt routine broadcasts. When you listen to a weather channel, you cannot use your radio in scan mode or for two-way communications.
Both NOAA and ECCC have transmitters located throughout the United States and Canada, respectively. These transmitters broadcast watches, forecasts, and other information 24 hours a day.

Note: NOAA weather radio stations are assigned to cover specific areas and service may be limited. Please check with your local weather office for frequency and details or visit www.weather.gov/nwr in the US to view the appropriate transmitter for your area. The use

of the NOAA logo does not provide an endorsement or implied endorsement by the National Weather Service of NOAA, nor does the use of the Weather Radio logo provide an endorsement or implied endorsement by Environment and Climate Change Canada (ECCC).

Entering Weather Mode

1. From two-way mode, press ⓒ **Mode** button to enter weather mode **WEATHER**.

Setting the Weather Channel

Your radio receives weather frequencies:

1. In weather mode, press 🔒 **Menu/Lock** button until weather channel number flashes.

2. Press ⊕ or ⊟ to select the appropriate channel with good reception in your area.

3. Press the **PTT** button to set and exit Menu or 🔒 **Menu/Lock** button to continue set up weather alert.

Setting the Weather Alert

Your radio can be set to respond to NOAA Weather Radio emergency messages. A special alarm tone sounds an alert and turns on the weather receiver to give you immediate weather and emergency information.

1. In weather mode press 🔒 **Menu/Lock** button twice until 🔊! displays.

2. Press ⊕ or ⊟ to select On/Off.

3. Press the **PTT** button or 🔒 **Menu/Lock** button to exit the weather menu set up.

4. Press ⓒ **Mode** button to return to two-way mode. If you activate Weather Alert and return to two-way mode 🔊! is display.

Note: When the weather channel is activated, either manually or after receiving an alert, and no buttons are pressed for 5 minutes, the weather mode automatically revert to two-way mode.

As with two-way radio reception, weather channel reception depends on how close you are to a transmitter and whether you are indoors or outdoors. Because weather channels are transmitted without codes, they may contain static or noise. Weather Alert does not function while actively transmitting or receiving in two-way mode.

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Weather Channels and Frequencies

Weather Channel	Frequency (MHz)	Weather Channel	Frequency (MHz)
WX1	162.550	WX7	162.525
WX2	162.400	WX8	161.650
WX3	162.475	WX9	161.775
WX4	162.425	WX10	161.750
WX5	162.450	WX11	162.000
WX6	162.500		

CHANNELS AND FREQUENCIES

This FRS device is approved for USA and Canada. USA, Canada, Mexico, and Panama.

Channel	Frequency (MHz)	Max Power Output	Channel	Frequency (MHz)	Max Power Output
1	462.5625	2 W	12	467.6625	0.5 W
2	462.5875	2 W	13	467.6875	0.5 W
3	462.6125	2 W	14	467.7125	0.5 W
4	462.6375	2 W	15	462.5500	2 W
5	462.6625	2 W	16	462.5750	2 W
6	462.6875	2 W	17	462.6000	2 W
7	462.7125	2 W	18	462.6250	2 W
8	467.5625	0.5 W	19	462.6500	2 W
9	467.5875	0.5 W	20	462.6750	2 W
10	467.6125	0.5 W	21	462.7000	2 W
11	467.6375	0.5 W	22	462.7250	2 W

Remark: Power refers to maximum allowable power as defined by FCC/ISED for each channel under FRS rules for USA and FRS/GMRS for Canada and is not a reflection of the power specification of the radio.

Brazil

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	462.5625	14	467.5625
2	462.5750	15	467.5750
3	462.5875	16	467.5875
4	462.6000	17	467.6000
5	462.6125	18	467.6125
6	462.6250	19	467.6250
7	462.6375	20	467.6375
8	462.6500	21	467.6500
9	462.6625	22	467.6625
10	462.6750	23	467.6750
11	462.6875	24	467.6875
12	462.7000	25	467.7000
13	462.7125	26	467.7125

Chile

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	462.5500	18	467.6000
2	462.5625	19	467.6250
3	462.5750	20	467.6500
4	462.5875	21	467.6750
5	462.6000	22	467.7000
6	462.6125	23	467.7250
7	462.6250	24	467.8125
8	462.6375	25	467.8250
9	462.6500	26	467.8375
10	462.6625	27	467.8500
11	462.6750	28	467.8625
12	462.6875	29	467.8750
13	462.7000	30	467.8875
14	462.7125	31	467.9000
15	462.7250	32	467.9150
16	467.5500	33	467.9250
17	467.5750	-	-

Peru

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	462.5625	8	467.5625
2	462.5875	9	467.5875
3	462.6125	10	467.6125
4	462.6375	11	467.6375
5	462.6625	12	467.6625
6	462.6875	13	467.6875
7	462.7125	14	467.7125

ACCESSORIES

For more information on convenient power, carry and audio accessories to optimize your Talkabout Two-Way Radios, visit www.motorolasolutions.com/talkaboutaccessories.

WARRANTY

Consumer Two-Way Radio Products and Accessories purchased in the United States, Canada, Mexico, Panama, Brazil, Chile, and Peru

What Does this Warranty Cover?

Subject to the exclusions contained below, Motorola Solutions, Inc. ("Motorola") warrants the Motorola branded consumer two-way radios that operate via Family Radio Service or General Mobile Radio Service ("Products"), the Motorola branded or certified accessories sold for use with these Products ("Accessories") to be free from defects in materials and workmanship under normal consumer usage for the period(s) outlined below. This limited warranty is the exclusive remedy of a consumer, and applies as follows to new Products and Accessories and purchased by consumers in the USA, Canada, Mexico, Panama, Brazil, Chile, and Peru, which are accompanied by this written warranty:

Who is Covered?

This warranty extends only to the first consumer purchaser, and is not transferable.

What will MOTOROLA SOLUTIONS, INC. do?

Motorola Solutions, Inc., at its option, will at no charge repair, replace or refund the purchase price of any Products or

 Accessories that do not conform to this warranty. We may use functionally equivalent reconditioned/refurbished/pre-owned or new Products or Accessories.

What Other Limitations Are There?

Any Implied Warranties, Including Without Limitation. The implied warranties of merchantability and fitness for a particular purpose, shall be limited to the duration of this limited warranty, otherwise the repair, replacement, or refund as provided under this express limited warranty is the exclusive remedy of the consumers, and is provided in lieu of all other warranties, express or implied.

In no event shall Motorola Solutions be liable, whether in contract or tort (including negligence) for damages in excess of the purchase price of the product or accessory, or for any indirect, incidental, special or consequential damages of any kind, or loss of revenue or profits, loss of business, loss of information or other financial loss arising out of or in connection with the ability or inability to use the products or accessories to the full extent these damages may be disclaimed by law.

Some states and jurisdictions do not allow the limitation or exclusion of incidental or consequential damages, or limitation on the length of an implied warranty, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state or from one jurisdiction to another.

USA, Canada, Mexico, and Panama

Products Covered	Length Of Coverage
Products and Accessories as defined above, unless otherwise provided for below.	**Two (2) years** from the date of purchase by the first consumer purchaser of the product unless otherwise provided for below.
Products and Accessories that are repaired or replaced.	**The balance of the original warranty or for ninety (90) days** from the date returned to the consumer, whichever is longer.

Brazil, Chile, and Peru

Products Covered	Length Of Coverage
Products and Accessories as defined above, unless otherwise provided for below.	**One (1) year** from the date of purchase by the first consumer purchaser of the product unless otherwise provided for below.
Batteries whose fully charged capacity falls below 80 % of their rated capacity and batteries that leak.	
Products and Accessories that are repaired or replaced.	**The balance of the original warranty or for ninety (90) days** from the date returned to the consumer, whichever is longer.

Exclusions From Warranty Coverage
Products Covered

Normal Wear and Tear:
Periodic maintenance, repair and replacement of Products or Accessories due to normal wear and tear.

Abuse & Misuse:
Defects or damage that result from: (a) improper operation, storage, misuse or abuse, accident or neglect, such as physical damage (cracks, scratches, etc.) to the surface of the Products and Accessories resulting from misuse; (b) contact with liquid, water, rain, extreme humidity or heavy perspiration, sand, dirt or the like, extreme heat, or food; (c) use of the Products or Accessories for commercial purposes or subjecting the Product or Accessory to abnormal usage or conditions; or (d) other acts which are not the fault of Motorola Solutions.

Use of Non-Motorola Solutions branded Products and Accessories:
Defects or damage that result from the use of Non-Motorola Solutions branded or certified products, accessories, software or other peripheral equipment.

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Exclusions From Warranty Coverage
Products Covered

Unauthorized Service or Modification:
Defects or damages resulting from service, testing, adjustment, installation, maintenance, alteration, or modification in any way by someone other than Motorola Solutions or its authorized service centers.

Altered Products:
Products or Accessories with (a) serial numbers or date tags that have been removed, altered or obliterated; (b) broken seals or that show evidence of tampering; (c) mismatched board serial numbers; or (d) nonconforming or non-Motorola Solutions branded housings, or parts.

Communication Services:
Defects, damages, or the failure of Products or Accessories due to any communication service or signal you may subscribe to or use with the Products or Accessories.

How to Obtain Warranty Service or Other Information?

To obtain service or information, please call

USA and Canada Two-Way Radios
1-800-448-6686.
www.motorolasolutions.com/talkabout

Latin America
Toll free:
Mexico 001-855-241-8253
Panama 001-800-205-3867
Brazil 0800-168272
Peru 0800-55760
Chile 123-0020-2126

Toll or long distance:
Spanish +1 630-203-5826
Portuguese +001.312.725.5373
English +1 630-203-5824
Brazil + 55 11 3525-3055 and 3056

For Accessories:
Please call the telephone number designated above for the Product with which they are used. You will receive instructions on how to ship the Products or Accessories at your expense, to Motorola Solutions or a Motorola Solutions Authorized Repair Center. To obtain service, you

must include: (a) a copy of your receipt, bill of sale or other comparable proof of purchase; (b) a written description of the problem; (c) the name of your service provider, if applicable; (d) the name and location of the installation facility (if applicable) and, most importantly; (e) your address and telephone number.

For more information, please visit us at:

https://www.facebook.com/
MotorolaTalkaboutWalkieTalkies

http://bit.ly/Talkabout

www.motorolasolutions.com/
talkabout

www.motorolasolutions.com/
talkabout/pt (Portuguese)

www.motorolasolutions.com/
talkabout/es (Spanish)

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Déclaration de conformité du fournisseur

Appareil numérique de classe B

En tant que périphérique d'ordinateur personnel, cet appareil est conforme aux dispositions de la partie 15 des règlements de la FCC. Son utilisation est assujettie aux deux conditions suivantes :

1. Cet appareil ne doit pas causer d'interférence nuisible; et

2. Cet appareil doit accepter toute interférence reçue, y compris les interférences pouvant entraîner un fonctionnement indésirable.

Avis:
Cet équipement a fait l'objet de tests et a été déclaré conforme aux limites établies pour un appareil numérique de classe B, conformément à la section 15 des règlements de la FCC. Ces limites sont fixées afin d'offrir une protection suffisante contre des interférences nuisibles dans une installation résidentielle. Cet équipement génère, utilise et peut émettre de l'énergie de radiofréquence et, s'il n'est pas installé ou utilisé conformément aux instructions, il peut provoquer un brouillage nuisible aux communications radio. Cependant, il est impossible de garantir qu'il n'y aura aucune interférence dans une installation particulière.
Si cet appareil cause une interférence nuisible à la réception de la radio ou de la télévision, ce qui peut être déterminé en éteignant et en allumant l'appareil, vous êtes encouragé à remédier à la situation en prenant une ou plusieurs des mesures suivantes :

- Réorienter ou déplacer l'antenne réceptrice.
- Augmenter la distance entre l'équipement et le récepteur.
- Brancher l'appareil dans une autre prise sur un circuit différent de celui du récepteur.
- Consulter le distributeur ou un technicien de radio ou de télévision chevronné pour obtenir de l'aide.

Avis aux utilisateurs (FCC et Industrie Canada)

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence et à la partie 15 des règlements de la FCC :

- Cet appareil ne doit pas causer d'interférence nuisible.
- Cet appareil doit accepter toute interférence reçue, y compris les interférences pouvant entraîner un fonctionnement indésirable.
- Toute modification effectuée à cet appareil sans l'autorisation explicite de Motorola Solutions peut annuler l'autorisation d'utiliser cet appareil.

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