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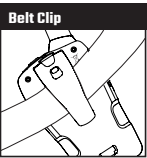
Introduction

Making Life Easier and Safer

Staying in touch with your family and friends is convenient and easy when using your radio. Some of the many uses you will discover include:

Communicating with others while hiking, biking, and working; keeping track of family and friends at a crowded public event; checking with travel companions in another car; talking with neighbors; arranging meeting spots with others while shopping at the mall.

Secure your radio while on the go.



Carrying your radio with you is easy when using the belt clip or optional wrist strap.

The belt clip easily attaches to your belt, purse, or backpack.



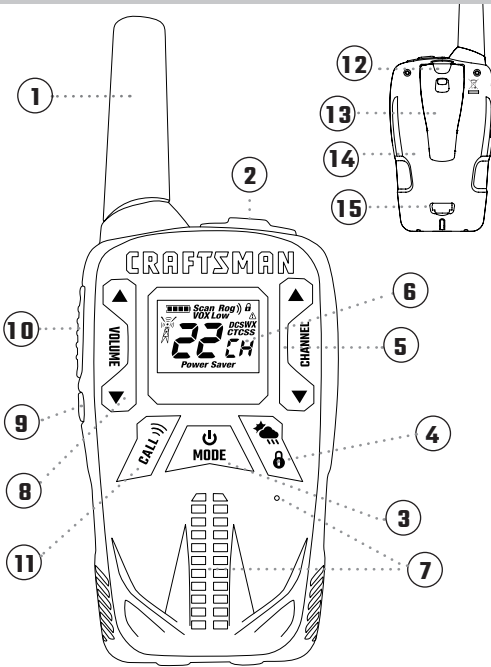
Maximum range may vary and is based on unobstructed line-of-sight communication under ideal conditions.

A-1



Introduction

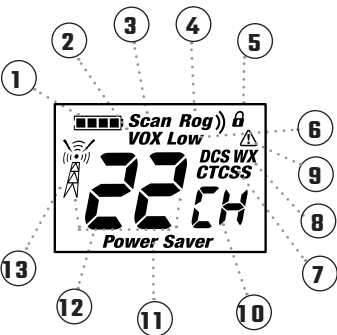
Product Features



1. Antenna
2. External Speaker/ Microphone/Charge Jack
3. **Mode/Power** Button
4. **Weather/Lock** Button
5. **Channel Up/Down** Buttons
6. Backlit LCD Display
7. Speaker/Microphone
8. **Volume Up/Down** Buttons
9. **Light/Max Range** Button
10. **Talk** Button
11. **Call** Button
12. Wrist Strap Connection
13. Belt Clip
14. Battery Compartment
15. Battery Door Latch

A-2

Backlit LCD Display



1. Battery Level Indicator
2. VOX Icon
3. Scan Icon
4. Roger Beep Icon
5. Lock Icon
6. Low Power Icon
7. DCS/CTCSS Icons
8. Weather Icon
9. Weather Alert Icon
10. DCS/CTCSS Privacy Code Numbers
11. Power Saver Icon
12. Channel Numbers
13. Receive/Transmit Icon

A-3

Caring for Your Radio

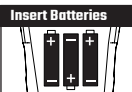
Your radio will give you years of trouble-free service if cared for properly. Handle the radio gently. Keep the radio away from dust. Never put the radio in water or in a damp place. Avoid exposure to extreme temperatures.

Installing Batteries



To install or replace batteries:

1. Remove belt clip by releasing belt clip latch and sliding clip up.
2. Pull up on the battery door latch to remove the battery compartment cover.
3. Insert the supplied three AA rechargeable batteries or non-rechargeable alkaline batteries. Position batteries according to polarity markings.
4. Replace battery compartment cover and belt clip.



- Do not attempt to charge alkaline batteries.
- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc), or rechargeable (Ni-Cd, Ni-MH, etc.) batteries.



To charge batteries in radio:

1. Check to see that the batteries have been inserted properly.
2. Insert the cable into the charge jack located at the top of the radio.
3. Plug the cable into USB-compatible power port.

Use only the supplied rechargeable batteries and charger for recharging your radio.

Craftsman recommends your radio is turned off while being charged. Non-rechargeable alkaline batteries can also be used in your radio.

1



Operation

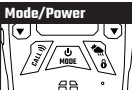
Using Your Radio



Quick Start

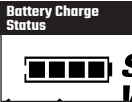
1. Press and hold the **Mode/Power** button to turn on your radio.
2. Press the **Channel Up** or **Channel Down** button to select a channel.
- Both radios must be tuned to the same channel/privacy code to communicate.
3. Press and hold the **Talk** button while speaking into the microphone.
4. When finished talking, release the **Talk** button and listen for a response.

Turning on Your Radio



Press and hold the **Mode/Power** button until you hear a series of audible tones indicating the radio is on. Your radio is now in **Standby** mode, ready to receive transmissions. The radio is always in **Standby** mode except when the **Talk**, **Call** or **Mode/Power** buttons are pressed.

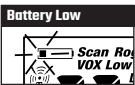
Battery Status Indicator



The battery charge status is shown on the display. Four bars indicates fully charged.

2

Battery Low



When battery power is low, the final bar in the **Battery Low** icon will blink and an audible tone will sound twice before the radio shuts off. Your batteries should be replaced or recharged, if using rechargeable batteries.



The radio will display flashing battery icon while charging if the radio is on.

Auto Battery Save



If there are no transmissions within 10 seconds, the radio will automatically switch to **Power Save** mode and the **Power Saver** icon will flash in the display. This will not affect the radio's ability to receive incoming transmissions.

Communicating with Another Person



1. Press and hold the **Talk** button.
2. With the microphone about two inches (5 cm) from your mouth, speak in a normal voice.
3. Release the **Talk** button when you are finished talking and listen for a response.

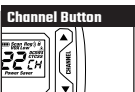


You cannot receive incoming calls while pressing the **Talk** button.



Both radios must be tuned to the same channel to communicate.

To Select a Channel



With the radio on, select any of the 22 channels by pressing the **Channel Up** or **Channel Down** button.



Both radios must be tuned to the same channel to communicate.



See page 13 for frequency allocations and compatibility charts.

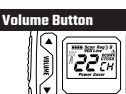
3

Listening for a Response

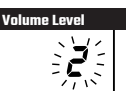


Release the **Talk** button to receive incoming transmissions. Your radio is always in **Standby** mode while the **Talk** or **Call** buttons are not pressed.

To Adjust Volume

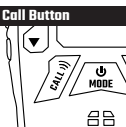


Press the **Volume Up** or **Volume Down** button.



A double beep sound is used to indicate the minimum and maximum volume levels (1 through 8).

Call Button



Press and release the **Call** button. The other person will hear a three second call tone. This tone is used only to establish voice communications.



See page 11 on how to select between five call tone settings.

To Illuminate Display



Press and release the **Light/Max Range** button to illuminate the display.

Auto Squelch/Maximum Range

Your radio will automatically shut off weak transmissions and unwanted noise due to terrain, conditions or if you've reached your **Maximum Range** limit.

You can temporarily turn off auto squelch or turn on maximum range extender, allowing all signals to be received and extending the maximum range of your radio.

4



To temporarily turn off auto squelch:

Press the **Light/Max Range** button for Less than five seconds.

To turn maximum range extender on:

- Press and hold the **Light/Max Range** button for at least five seconds until you hear two beeps which indicates the maximum range extender is on.

To turn maximum range extender off:

- Press and release the **Light/Max Range** button or change channels.

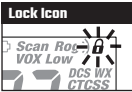
Lock Function



The **Lock** function locks the **Channel Up**, **Channel Down** and **Mode/Power** buttons to prevent accidental operation.

To turn the lock on or off:

- Press and hold the **Lock** button for two seconds.



A double beep sound is used to confirm your lock on or off request. When in **Lock** mode, the **Lock** icon will be displayed.

Range



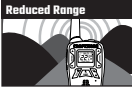
Your range will vary depending on terrain and conditions.

In flat, open country your radio will operate at maximum range. Buildings and foliage in the path of the signal can reduce the range of the radio.



Dense foliage and hilly terrain will further reduce the range of the radio.

On Channels 8 through 14, your radio automatically switches to low power, which will limit the range the radio can communicate.



Remember, you can achieve maximum range by using maximum range extender. See page 4 for details.

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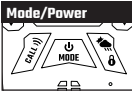


Operation

Mode Functions

Scrolling Through the Mode Function

By scrolling through the **Mode** function, you will be able to select or turn on preferred features of your radio. When scrolling through the **Mode** function, your radio features will be displayed in the same predetermined order:



- Set CTCSS Privacy Codes
- Set DCS Privacy Codes
- Set Vox On/Off
- Set Vox Sensitivity
- Set Channel Scan
- Set CTCSS Privacy Code Scan
- Set DCS Privacy Code Scan
- Set Call Tones
- Set Roger Beep On/Off

Privacy Codes

Your radio incorporates two advanced coded squelch systems that can help to reduce interference from other users on any given channel. **CTCSS** (Continuous Tone Coded Squelch System) provides 38 privacy codes and **DCS** (Digitally Coded Squelch) provides 83 privacy codes. This provides a total of 121 **Privacy Codes**. Either system can be used on all channels, but both systems cannot be used on the same channel at the same time.



To successfully communicate using a privacy code, both the sending and receiving radios must be tuned to the same channel and to the same privacy code system (CTCSS or DCS) and privacy code number. Each channel will remember the last privacy code system and number you select.



The privacy code 00 is not a privacy code, but allows all signals to be heard on a channel that is set to 00 on both the CTCSS and DCS systems.

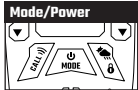
Mode Functions (continued on back side)

6

Operation

Mode Functions (continued)

Set CTCSS Privacy Codes

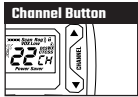


To select a CTCSS privacy code:

1. After selecting a channel, press the **Mode/Power** button until the **CTCSS** icon appears and the small numbers next to the channel number flash on the display.



1. If DCS is turned on at the channel selected, the display will flash the CTCSS icon and "OFF." To switch from DCS to CTCSS, press the **Channel Up** or **Channel Down** button while the display is flashing "OFF." The display will then show the small numbers flashing and you will then be able to proceed to step 2.



2. Press using the **Channel Up** or **Channel Down** button to select a privacy code. You can hold the **Up** or **Down** button for fast advance.
3. When your desired CTCSS privacy code is displayed, choose one of the following:
 - a. Press the **Mode/Power** button to enter the new setting and proceed to other functions.
 - b. Press the **Lock** button to return to **Standby** mode.
 - c. Do not press any buttons for 15 seconds to return to **Standby** mode.

NOAA* All Hazards Radio Channels

You can use your radio to listen to NOAA All Hazards Radio channels transmitting in your area.



To listen to All Hazards Radio channels:

1. Press the **Weather/Lock** button once until the **All Hazards Radio** icon and the currently selected **All Hazards Radio** channel are displayed.
2. Use the **Channel Up** or **Channel Down** button to change All Hazards Radio channels.
3. The **All Hazards Radio** icon will continue to be displayed when **All Hazards Radio** is on.
4. To exit All Hazards Radio, press and hold the **Weather** button.

*National Oceanographic and Atmospheric Administration

Weather (WX) Alert Mode

Turning On the **Weather Alert** function will allow your radio to automatically receive NOAA Hazard Alert radio signals and warnings from designated NOAA broadcast stations. If the radio is turned ON, it will alert to Weather and other emergency alerts broadcast by NOAA.



This feature is set to OFF by default.



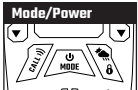
Make sure the strongest Weather channel is selected for your area using the NOAA All Hazards Radio Channels selection in the previous menu.



To turn Weather Alert On or Off:

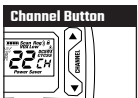
1. Press the **Weather/Lock** button twice until the **Weather Alert** icon flashes on the display. The current On or Off setting is displayed.
2. Press the **Channel Up** or **Channel Down** button to turn Weather Alert On or Off.
3. Press and hold the **Weather/Lock** button again to save the new setting and exit the **Weather Alert** Mode and return to **Standby** mode.

Set DCS Privacy Codes



To select a DCS privacy code:

1. After selecting a channel, press the **Mode/Power** button until the **DCS** icon appears and the small numbers flash on the display (00 through 83).

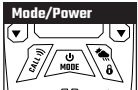


1. If CTCSS is turned on at the channel selected, the display will flash the DCS icon and "OFF." To switch from CTCSS to DCS, press the **Channel Up** or **Channel Down** button while the display is flashing "OFF." The display will then show the small numbers flashing and you will then be able to proceed to step 2.

2. Press using the **Channel Up** or **Channel Down** button to select a DCS privacy code. You can hold the **Up** or **Down** button for fast advance.
3. When DCS privacy code is displayed, choose one of the following:
 - a. Press the **Mode/Power** button to enter the new setting and proceed to other functions.
 - b. Press the **Lock** button to return to **Standby** mode.
 - c. Do not press any buttons for 15 seconds to enter the new settings and to return to **Standby** mode.

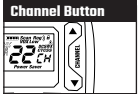
Voice Activated Transmit (VOX)

In **VOX** mode, your radio can be used "hands-free," automatically transmitting when you speak. You can set the **VOX** sensitivity level to fit the volume of your voice and avoid transmissions triggered by background noise.



To turn VOX mode on or off:

1. Press the **Mode/Power** button until the **VOX** icon flashes on the display. The current On or Off setting is displayed.
2. Press the **Channel Up** or **Channel Down** button to turn VOX On or Off.
3. Choose one of the following:
 - a. Press the **Mode/Power** button to enter the new setting and proceed to other functions.
 - b. Press the **Lock** button to return to **Standby** mode.



Operation

General Specifications

Frequency Allocation

A = Channel No. for 22 Channel Models
B = Frequency in MHz

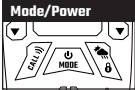
A	B
1	462.5625
2	462.5875
3	462.6125
4	462.6375
5	462.6625
6	462.6875
7	462.7125
8	462.5625
9	462.5875
10	462.6125
11	462.6375
12	462.6625
13	462.6875
14	462.7125
15	462.5500
16	462.5750
17	462.6000
18	462.6250
19	462.6500
20	462.6750
21	462.7000
22	462.7250

FCC WARNING:

Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

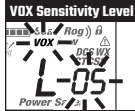
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

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

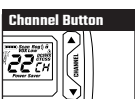


To set VOX sensitivity:

1. Press the **Mode/Power** button until the **VOX** icon flashes and the current sensitivity level is displayed.



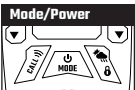
1. The current VOX sensitivity level is displayed with letters "L" and a Number 1 through 5, with Number 5 being the most sensitive level and Number 1 being the least sensitive level.



2. Press the **Channel Up** or **Channel Down** button to change the setting.
3. Choose one of the following:
 - a. Press the **Mode/Power** button to enter the selected setting and proceed to other functions.
 - b. Press the **Lock** button to return to **Standby** mode.

Channel Scan

Your radio can automatically scan channels.



To scan channels:

1. Press the **Mode/Power** button until the **Scan** icon and the channel numbers appear on the display.
2. Press the **Channel Up** or **Channel Down** button to begin scanning channels.



1. The radio ignores specific privacy codes while scanning channels.

The **Scan** icon will continue to be displayed when scan is on. Your radio will continue to scan all channels and stop if an incoming transmission is detected. Your radio will remain on that channel for 10 seconds.

During scanning (while receiving an incoming transmission), you can choose from the following:

- a. Press and hold the **Talk** button to communicate on that channel. Your radio will remain on that channel and return to **Standby** mode.
- b. Press the **Channel Up** or **Channel Down** button to resume scanning channels.
- c. Press the **Lock** button to return to **Standby**.

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/TV technician for help.

Safety Information for microTALK® Radios

Your wireless handheld portable transceiver contains a low power transmitter. When the talk button is pushed, it sends out radio frequency (RF) signals. The device is authorized to operate at a duty factor not to exceed 50%. In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for handheld wireless devices

ISED C WARNING:

This device complies with Innovation, Science and Economic Development Canada licence-exempt RSS standard (s).

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Innovation, la science et le développement économique Canada licables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Important

FCC/ISED RF Exposure Requirements: For body-worn operation, this radio has been tested and meets the FCC/ISED RF exposure guidelines when used with Craftsman accessories supplied or designated for this product. Use of other accessories may not ensure compliance with FCC/ISED RF exposure guidelines. Use only the supplied antenna. Unauthorized antennas, modifications or attachments could damage the transmitter and may violate FCC/ISED regulations.

Exigences de la FCC/ISED concernant l'exposition aux champs électro-magnétiques RF (radiofréquences): En ce qui concerne le fonctionnement de l'appareil porté sur le corps de l'utilisateur, les tests effectués ont permis de vérifier que cet émetteur-récepteur satisfait aux directives FCC/ISED limitant l'exposition aux champs électro-magnétiques RF lorsqu'il est utilisé avec les accessoires Craftsman fournis ou conçus pour ce produit: l'utilisation d'autres accessoires peut ne pas garantir le respect des critères des directives FCC/ISED limitant l'exposition aux champs électro-magnétiques RF. Utiliser l'appareil uniquement avec l'antenne fournie. L'emploi d'une antenne non homologuée ou modifiée, ou d'accessoires non autorisés, pourrait faire subir des dommages à l'appareil, et peut violer les prescriptions de la réglementation FCC/ISED.

Before a new model device is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the exposure limit established by the FCC/ISED. Tests for each device are performed in positions and locations (e.g. at the ear and worn on the body) as required by the FCC/ISED.

For body worn operation, this model device has been tested and meets the FCC/ISED RF exposure guidelines when used with an accessory designated for this product or when used with an accessory that Contains no metal. Non-compliance with the above restrictions may result in violation of RF exposure guidelines.

Normal Position

Hold the transmitter approximately 1 inches from your face and speak in a normal voice, with the antenna pointed up and away.



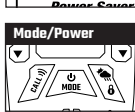
MODEL CMX2RAZF333:

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.

FCC Warnings: Replacement or substitution of transistors, regular diodes or other parts of a unique nature, with parts other than those recommended by Craftsman may cause a violation of the technical regulations of part 95 of the FCC rules, or violation of type acceptance requirements of part 2 of the rules.

Privacy Code Scan

Your radio can automatically scan the Privacy Codes (either CTCSS 01 through 38 or DCS 01 through 83) within one channel. Only one set of privacy codes (CTCSS or DCS) can be scanned at a time.



To scan privacy codes:

1. While in **Standby** mode, press the **Channel Up** or **Channel Down** button to choose the channel on which you wish to scan privacy codes.
2. Press the **Mode/Power** button until either the CTCSS or the DCS icon appears on the display and the Scan icon and the privacy code numbers flash on the display.
3. Press the **Channel Up** or **Channel Down** button to begin scanning privacy codes within the channel you selected.

During scanning (while receiving an incoming transmission), you can choose from the following:

- a. Press and hold the **Talk** button to communicate on that channel/ privacy code. Your radio will remain on that channel/privacy code and return to **Standby** mode.
- b. Press the **Channel Up** or **Channel Down** button to resume scanning privacy codes. If you do not press any button within 10 seconds, your radio will automatically resume scanning privacy codes.
- c. Press the **Lock** button to return to **Standby**

Position normale:

Hold the transmitter approximately 1 inches from your face and speak in a normal voice, with the antenna pointed up and away.

Tenir l'émetteur à environ 1 po de la bouche et parler normalement, l'antenne étant éloignée et dirigée vers le haut.



Warranty & Trademark Acknowledgment

Limited One-Year Warranty

Altis Global Limited warrants to the original consumer purchaser only that this product and the component parts thereof, will be free from defects in workmanship and materials for a period of one year from the date of first consumer purchase. During this period, Altis will, repair or replace, at its sole option and discretion, this product or any defective parts. Altis' liability hereunder shall be limited to repair or replacement of the defective part or parts, and such correction shall constitute a fulfillment of all of Altis' warranties hereunder.

This limited warranty is only valid for the original consumer purchaser in limited jurisdictions and is not transferable. This limited warranty will automatically terminate prior to expiration if this product is sold or otherwise transferred to another party. The product must be purchased from Altis or an authorized dealer or the warranty is void. This limited warranty is valid only for products purchased and utilized in specific jurisdictions. Please visit our website at CRAFTSMAN.com for a list of jurisdictions wherein this limited warranty is valid.

This limited warranty does not cover damage due to misuse, abuse, negligence, acts of God, accident, commercial use or modification of, or to any part of this product. This warranty does not cover damage due to improper operation, maintenance or installation; ordinary wear and tear; or attempted alterations or repairs by anyone other than Altis or someone authorized by Altis to do warranty work. Any unauthorized alterations or repairs will void this warranty. This limited warranty does not cover product sold AS IS or WITH ALL FAULTS. This limited warranty is invalid if the factory applied serial number or date stamp has been altered, defaced or removed from this product. This limited warranty does not cover product purchased or utilized in a jurisdiction not covered.

The procedure for obtaining service and support, and the applicability of this warranty, will vary depending on the country or jurisdiction in which you purchase and utilize the product. For details on obtaining product service, support and other warranty information please visit CRAFTSMAN.com.

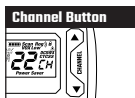
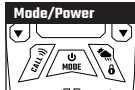
This warranty gives you specific legal rights, and you may also have other rights which vary from state to state and country to country.

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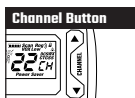
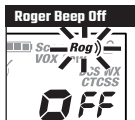
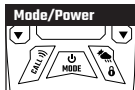
Five Call Tone Settings

You can choose between five different Call Tone Settings to transmit a call alert.



Roger Beep Confirmation Tone

Your listener will hear an audible tone when you release the Talk button. This alerts the other party that you are finished talking and it is OK for them to speak.



To turn roger beep on or off:

1. Press the **Mode/Power** button until the **Roger Beep** icon flashes. The current on or off setting is displayed.
2. Press the **Channel Up** or **Channel Down** button to select roger beep on or off.
3. Choose one of the following:
 - a. Press the **Mode/Power** button to return to **Standby** mode.
 - b. Press the **Lock** button to return to **Standby** mode.

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