

MIDLAND®

2-WAY RADIO WITH EMERGENCY CRANK



Base Camp Radio XT511A

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Welcome to the world of Midland electronics

Congratulations on the purchase of your high quality MIDLAND product. Your two-way radio represents state-of-the-art high-tech engineering and is designed for GMRS (General Mobile Radio Service) operation. It is a quality piece of electronic equipment, skillfully constructed with the finest components. The circuitry is all solid-state and mounted on a rugged printed circuit board. Your two-way radio is designed for reliable and trouble-free performance for years to come.

Features

- 22 GMRS/FRS Channels
- 121 Privacy Codes (38 CTCSS / 83 DCS)
- AM/FM Receiver
- VOX
- Selectable Call Alerts
- NOAA Weather Scan
- NOAA Weather Radio
- NOAA Weather Alert
- Scan Function
- Monitor Function
- Roger Beep Tone
- Silent Operation
- Key Pad Lock
- Power HI/LO Settings
- Flashlight
- SOS Siren
- Clock/Alarm Clock Function
- Dynamo Crank Battery Charge Capability
- USB Jack (For Mobile Phone Charging)
- Speaker/Microphone Jacks
- Battery Meter/Battery Low Indicator

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

To maintain compliance with FCC's RF exposure guidelines, for body-worn operation, this radio has been tested and meets the FCC RF exposure guidelines when used with Midland Radio Corp. accessories supplied or designated for this product. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

**IMPORTANT NOTICE, FCC LICENSE REQUIRED FOR GMRS OPERATION
(Only Applicable for GMRS Radio Use in the United States)**

The XT511A operate on GMRS (General Mobile Radio Service) frequencies which require an FCC (Federal Communications Commission) license. You must be licensed prior to operating on channels 1 - 7 or 15 - 22, which comprise the GMRS channels of the radios. Serious penalties could result from unlicensed use of GMRS channels, in violation of FCC rules, as stipulated in the Communications Acts Sections 501 and 502 (amended).

You will be issued a call sign by the FCC which should be used for station identification when operating the radio on GMRS channels. You should also cooperate by engaging in permissible transmissions only, avoiding channel interference with other GMRS users, and being prudent with the length of your transmission time.

To obtain a license or ask questions about the license application, contact the FCC at 1-888-CALL FCC or go to the FCC's website:

<http://www.fcc.gov> and request form **605**.

Exposure To Radio Frequency Energy

Your Midland radio is designed to comply with the following national and international standards and guidelines regarding exposure of human beings to radio frequency electromagnetic energy:

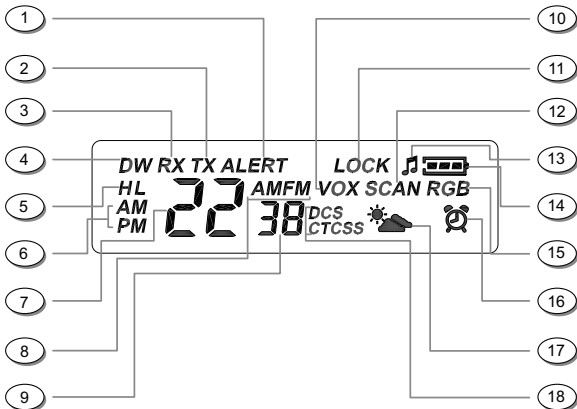
- United States Federal Communications Commission, Code of Federal Regulations: 47 CFR part 2 sub-part J
- American National Standards Institute (ANSI)/Institute of Electrical & Electronic Engineers (IEEE) C95. 1-1992
- Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1999 Edition
- National Council on Radiation Protection and Measurements (NCRP) of the United States, Report 86, 1986
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998

To control your exposure and ensure compliance with the general population or uncontrolled environment exposure limits, transmit no more than 50% of the time. The radio generates measurable RF energy exposure only when transmitting.

Body-Worn Operation

If you wear the radio on your body when transmitting always use Midland-supplied or approved belt clip, holster, case, or body harness for this product. Use of any accessories not supplied or approved by Midland may exceed FCC/Health Canada RF exposure guidelines. If you do not use any accessories supplied or approved by Midland, **ensure the radio and its antenna are at least 1 inch (2.5cm) from your body when transmitting.**

LCD DISPLAY



1. NOAA WEATHER (WX) ALERT ICON – Indicates the NOAA Weather Alert function is on.

2. TRANSMIT (TX) ICON – Indicates radio is transmitting a signal.

3. RECEIVE (RX) ICON – Indicates radio is receiving a transmission.

4. DUAL WATCH ICON – Indicates the Dual Watch function is on.

5. TRANSMIT POWER LEVEL ICON – Indicates TX Power setting (H/L)

6. CLOCK AM/PM ICON – Indicates the clock is set in AM or PM.

7. CHANNEL NUMBER – Changes from 1~22 on GMRS/FRS band (1~10 on WX band). This is also used to indicate in part the current AM/FM receiver frequency setting and the current clock setting.

8. AM/FM RECEIVER ICON – Indicates radio is in AM or FM receiver mode.

9. PRIVACY CODE – Indicates Privacy Code selected by user (oF~38/oF~83). This 2 digit readout is also used to display AM/FM receiver frequency and for the clock function.

10. VOX ICON – Indicates when VOX mode is active.

11. KEY LOCK ICON – Indicates KEY LOCK mode is on.

12. SCAN ICON – Indicates when the radio is in Scan mode.

13. KEY TONE ICON – Indicates radio's Key Beep Tone is on.

14. BATTERY METER – Indicates the battery level.

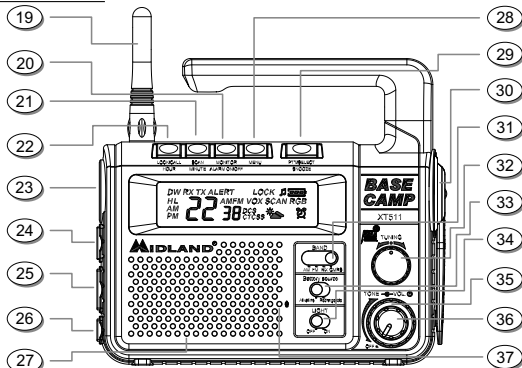
15. ROGER BEEP ICON – Indicates radio's Roger Beep Tone is on.

16. ALARM CLOCK ICON – Indicates when the Alarm Clock is on.

17. NOAA WEATHER (WX) BAND ICON – Indicates when the radio is in Weather Band mode.

18. PRIVACY CODE ICON – Indicates Privacy Code setting (CTCSS/DCS).

CONTROLS



19. ANTENNA

20. MONITOR / ALARM ON/OFF Button – Press to turn on the Monitor function in GMRS mode. Press and hold to turn alarm on/off in Clock mode.

21. SCAN/MINUTE Button – Press to set the Scan mode on/off in GMRS mode. Press to change the Minute setting in Clock mode.

22. LOCK/CALL / HOUR Button – Press and hold to set the key pad lock on/off in GMRS mode. Press to send a CALL Alert signal in GMRS mode. Press to change the Hour setting in Clock mode.

23. FLASHLIGHT – Built-in flashlight.

24. USB JACK – used for charging mobile phone thru the Dynamo Crank.

25. EXTERNAL SPEAKER/MIC JACK

26. EXTERNAL CHARGER JACK – When using the AC or DC Adapter the rechargeable battery pack MUST be installed.

27. SPEAKER – Built-in speaker.

28. MENU Button – Press to access Menu mode in GMRS/FRS and WX mode. Press and hold for 5 seconds to activate the SOS Siren.

29. PTT/SELECT/SNOOZE Button – Press and hold to transmit voice communication in GMRS mode.

Press to confirm the selection in MENU and Clock mode. Press to activate SNOOZE function in Clock mode.

30. DYNAMO CRANK HANDLE – Rotate clockwise or counter-clockwise to charge the NiMH battery pack.

31. BAND SWITCH – used to switch between AM/FM/WX/GMRS mode.

32. TUNING KNOB – Rotate clockwise/ counter-clockwise to make adjustment in the MENU mode. It can also make adjustment in the Clock and AM/FM receiver mode.

33. BATTERY SOURCE SWITCH – used to switch between Alkaline and Rechargeable NiMH batteries.

34. LIGHT ON/OFF SWITCH – used to turn the FLASHLIGHT on/off.

35. TONE CONTROL KNOB – Turn clockwise or counter-clockwise to increase or decrease the tone.

36. POWER/VOLUME KNOB – Turn clockwise to turn the power on and increase the volume level. Turn counter-clockwise to decrease the volume level and turn the power off.

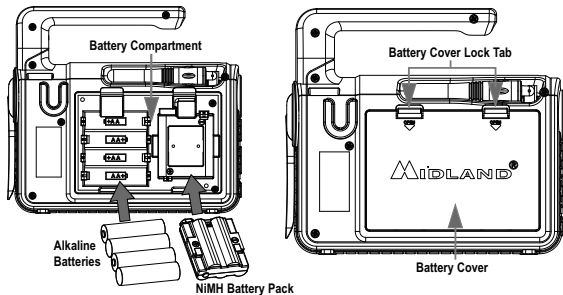
37. MIC – Built-in microphone.

BATTERY INSTALLATION

Your radio operates with either 4 AA alkaline batteries or a NiMH battery pack. Please ensure the rechargeable NiMH battery pack is installed in the radio before using the AC or DC adapters.

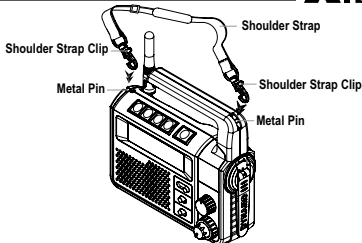
To install the batteries:

1. With the back of the radio facing you, remove the Battery Cover by pressing down the Battery Cover Lock Tab until it unlocks and lifting it out from the radio.
2. Insert 4 AA batteries observing the polarity as shown. Installing the batteries incorrectly will prevent the unit from operating or may damage the unit. Also install the NiMH battery pack as shown below.
3. Return the Battery Cover by pushing it down into the back of the radio until the Battery Cover Lock Tab locks into place.



INSTALLING THE SHOULDER STRAP

To install the **SHOULDER STRAP**, slide the **SHOULDER STRAP CLIP** down into the metal pins on the top of the radio until it locks into place. To remove the **SHOULDER STRAP**, press the **SHOULDER STRAP CLIP** tab down, then remove it from the radio.



CHARGING THE BATTERY PACK

Your radio is equipped for using a rechargeable NiMH battery pack which can be recharged using an AC wall adapter (included) or a DC adapter (included). Initial charge time is 24 hours with a charge time of 12 hours thereafter. For maximum battery life, we recommend charging the battery pack when the low battery icon comes on. Remove the radio from the charger when the charge time expires. For the location of the **CHARGING JACK** see page 20.

In order to ensure that the battery pack is fully charged, it is recommended that the battery pack be charged for at least 12 hours with the radio turned OFF.



You can also charge the rechargeable NiMH battery pack using the Dynamo Crank. To charge using the Dynamo Crank rotate rapidly the Dynamo Crank handle clockwise or counter-clockwise.

To get the best charging condition, charge the battery pack thru the Dynamo Crank with the radio turned OFF. Speed and length of time of cranking will determine the charge of the NiMH Battery Pack. Two minutes of cranking gives up to 5 minutes of radio use time (receiving and monitoring only).



1. Only use our NiMH battery pack.
2. Do not attempt to charge alkaline batteries or any batteries or battery packs other than the one indicated in the manual. This may cause leakage and damage to the radio.
3. For long term storage of the radio, turn the radio OFF and remove the batteries from the radio.

BATTERY LEVEL INDICATOR

Your radio has a **BATTERY LEVEL METER**  that shows the battery power level. The greater the number of bars visible, the stronger the battery level. When the battery level is low, the **Battery Shell**  icon will flash in the display indicating your batteries should be replaced or recharged if using a rechargeable battery pack.

SELECTING THE POWER SOURCE

Your radio can use either an Alkaline battery or the rechargeable NiMH battery pack. Just set the **BATTERY SOURCE** switch to either **“Alkaline”** or **“Rechargeable”** (for NiMH battery pack) mode.

OPERATING YOUR RADIO

POWER ON/OFF AND VOLUME

Rotate the **POWER/VOLUME** knob clockwise to turn the radio on and increase the volume level. Rotate the control counter-clockwise to reduce the volume level and to turn the radio off. During Power On, the LCD will display all icons for 1 second and the LCD display will indicate the last channel/frequency selected.

SETTING THE RADIO TO GMRS/FRS MODE

To set your radio to GMRS/FRS mode, move the **BAND** switch in **GMRS/FRS** position. The LCD will show the current **GMRS/FRS** channel setting.

TRANSMITTING AND RECEIVING A CALL

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

1. Press and hold the **PTT** button and speak in a normal voice into the **microphone**. The **TX** icon will appear continuously on the LCD Display while transmitting.

When using a **HAND MIC**, press and hold the **PTT** button on the side of the **HAND MIC** and speak in a normal voice.

For maximum clarity, hold the **HAND MIC** 2 to 3 inches from your mouth.

2. To receive a call, release the **PTT** button. The **RX** icon will appear on the display when your radio is receiving a transmission.

ABOUT RANGE

Your XT511A Series radios are designed to give you maximum range under optimum conditions.



Optimum Conditions are:

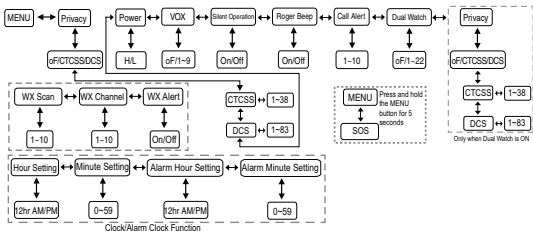
- Over water
- Open rural areas without obstructions
- Flat areas where you can see the other person

To ensure you get maximum range:

- Be sure to use fresh or fully charged batteries - low batteries will cause low power conditions
- Be sure you are on a GMRS channel - FRS channels are restricted by the FCC to low power
- Be sure to set your radio to use Hi power.
- Be sure to point the **ANTENNA** upward.

MENU MODE FUNCTIONS

XT511A MENU MODE QUICK REFERENCE CHART



CHANNEL SELECTION (GMRS/FRS BAND)

Turn the **TUNING** knob clockwise or counter-clockwise to select one of the 22 GMRS/FRS channels.

MONITOR

Pressing the **MONITOR** button will let you check activity on your current channel before transmitting. This could also be used to adjust the volume level of the radio when it is not receiving a signal.

Press the **MONITOR** button again to get out of **MONITOR** mode.

SCAN

Your radio can scan all 22 channels for any activity. To enter, press the **SCAN** button. Repeat the same procedure to exit. Your radio will rapidly scan each of the 22 channels and stop on any active channel. Your radio will stay on the active channel as long as the signal is present and will resume scanning 5 seconds after the signal is no longer present.

When you press the **PTT** button to transmit on an active channel, the scanning function will stop and remain on the active channel.

To resume scanning, press the **SCAN** button.


CALL ALERT

Your radio can transmit a call alert for a fixed length of time. To send a call alert, press the **CALL/LOCK** button. The **TX** icon will appear while transmitting a call alert and a tone can be heard on the speaker for confirmation.

Your radio has 10 call alert selections.

SOS SIREN

To activate the **SOS SIREN** function, press and hold the **MENU** button for 5 seconds. The radio will send out a loud siren sound, the display backlight will flash and the flashlight will flash; spelling out a **S.O.S.** pattern in Morse Code and a “**Sos**” icon will appear on the display. To deactivate the **SOS SIREN** function press the **PTT** button twice. Press the **PTT** button twice to stop the **SOS SIREN** function.

 **Warning: The SOS Siren is to be used only in the event of an emergency. Midland Radio Corporation is not responsible if there is no response to the SOS Siren.**

KEYPAD LOCK

To avoid accidentally changing the radio setting, press and hold the **CALL/LOCK** button for about 4 seconds. The **LOCK** icon will appear on the display. The **PTT**, **CALL**, and **MONITOR** function will still be active. Repeat the same procedure to unlock the keypad.


DISPLAY ILLUMINATION

During Power on, the display illumination will activate for approx. 5 seconds. The display illumination can also be activated when the **MENU**, **SCAN**, or **MONITOR** button is pressed. It can also be activated if the **TUNING** knob is turned.

Note: In Clock Mode (Power Off) the display illumination can be activated by pressing any button or when the Tuning knob is turned.


SETTING PRIVACY CODES

Your radio has 121 **Privacy Codes** available. The selected **Privacy Code** may be different for each channel. To select a **Privacy Code** for the current channel press the **MENU** button once, and then turn the **TUNING** knob to select between **oF/CTCSS/DCS**. Then press again the **MENU** button, and then turn the **TUNING** knob to select one of the 38 **CTCSS** Privacy Code or one of the 83 **DCS** Privacy Code. The **Privacy Code** icon on the display will indicate whether you set your Privacy Code in **CTCSS** or **DCS** mode. To confirm the selection, press the **PTT** button or press **MENU** button again to move to the next feature setting.

 **Note** : If you select any **CTCSS** Privacy Code, any pre-selected **DCS** Privacy Code will be cancelled and vice-versa. Selecting a Privacy Code of "oF" will disable the Privacy feature. To communicate between two XT511A Series radios, all radios in your group must be set to the same channel and Privacy Code selections.

TRANSMIT (TX) POWER LEVEL SELECTION

Your radio has 2 power level settings. To select the power level on channels 1~7 and 15~22, press the **MENU** button until a "**Pr**" icon will appear on the display. Then turn the **TUNING** knob to select **TRANSMIT POWER LEVEL (H: Hi or L: Lo)**. To confirm, press the **PTT** button or press **MENU** button again to move to the next feature setting.

When the Battery Meter drops to 1 bar , the TX Power will automatically switch from Hi(H) to Lo(L) level.



Note : *You cannot adjust the power setting on the FRS channels (8~14). They are set to Low power per FCC regulations.*

VOX (Hands-free Transmission)

Your radio has 9 VOX level settings: (oF/1~9).

To turn the **VOX** on, press the **MENU** button until a “Vo” appears, while on the right, the “oF” setting appears. Turn the **TUNING** knob to make the **VOX** setting selections. To confirm, push the **PTT** key or press the **MENU** button again to move to the next feature setting.

VOX will be more sensitive on the “1” setting than on the “9” setting.


To turn the **VOX** off, press the **MENU** button until a “Vo” appears, while on the right, the current **VOX** setting appears. Select “oF” by turning the **TUNING** knob. To confirm, push the **PTT** key or press the **MENU** button again to move to the next feature setting.

Note: *For VOX Hands-free operation use Midland headset accessories or built-in internal microphone. The accessory hand mic is also intended for VOX mode use.*

SILENT OPERATION

Your radio has a **SILENT OPERATION** mode. In this mode, all “beeps” and “tones” are disabled.

To set the **SILENT OPERATION**, press the **MENU** button until the display shows a “bP” icon. Select “on” or “oF” by turning the **TUNING** knob. To confirm, push the **PTT** key or press **MENU** button to move to the next feature setting.

When the **SILENT OPERATION** is off, the  icon will appear on the display.

ROGER BEEP (End of Transmission) TONE

When the **PTT** button is released, the radio will beep to confirm to other users that your transmission has finished.

To set the **ROGER BEEP** tone, press the **MENU** button until the display shows an “rb” icon. Select “on” or “oF” by turning the **TUNING** knob.

To confirm, push the **PTT** key or press the **MENU** button to move to the next feature setting.

When the **ROGER BEEP** tone is on, the **RGB** icon will appear on the display.

CALL ALERT SELECTION

Your radio has 10 selectable **CALL ALERTS (1~10)**.

To select, press the **MENU** button until a “**CA**” icon appears and to the right of the “**CA**” icon the current **CALL ALERT** setting is displayed. Then turn the **TUNING** knob to make the **CALL ALERT** selections - the radio will emit a corresponding tone for each selection. To confirm, press the **PTT** button or press **MENU** button to move to the next feature setting.

DUAL WATCH

Your radio has a **DUAL WATCH** function, to enable user to scan 2 channels for any activity. The first channel will be the current channel/privacy code setting and the second channel will be the selected channel on the **MENU**.

To turn on the **DUAL WATCH** function, press the **MENU** button until the display shows the **DW** icon and “**oF**” icon. Select the second channel by turning the **TUNING** knob. To select a **Privacy Code** for the current channel press the **MENU** button once, and then turn the **TUNING** knob to select between **oF/CTCSS/DCS**. Then press again the **MENU** button, and then turn the **TUNING** knob to select one of the 38 **CTCSS** Privacy Code or one of the 83 **DCS** Privacy Code. The **Privacy Code** icon on the display will indicate whether you set your Privacy Code in **CTCSS** or **DCS** mode. To confirm the selection, press the **PTT** button or press **MENU** button again to move to the next feature setting. The **DW** icon will remain on the display.

The radio will rapidly scan the two channels selected and stop on any active channel. Your radio will stay on the active channel as long as the signal is present and will resume scanning 5 seconds after the signal is no longer present.


To turn off the **DUAL WATCH** function, press the **SCAN** button. The current **GMRS/FRS** radio setting will be displayed and the **DW** icon will disappear on the display.

***Note:** When the radio is in Dual Watch or Scan mode for GMRS, it will be overridden with a weather alert.*

NOAA WEATHER RADIO / SCAN

Your radio has a **NOAA WEATHER RADIO** function, to enable the user to receive weather reports from designated **NOAA** stations.

Your radio also has a **NOAA WEATHER SCAN** function, to enable the user to scan all 10 channels of the **NOAA WEATHER RADIO**.

To turn the **NOAA WEATHER SCAN** on, move the **BAND** switch to **WX** position. The radio will go to **WX Band** mode and start scanning all 10 channels and stop on any active channel. The **ALERT**, **SCAN** and the  icon appears on the display while the radio is scanning. When the channel becomes inactive for 10 seconds the radio will resume scanning.

To stop the **NOAA WEATHER (WX) SCAN** and set the channel manually on the **WX Band**, press the **SCAN** button during **NOAA WEATHER (WX) SCAN**. The radio will stop scanning and stay on the last active **WX Band** channel. While in **WX Band** mode press the **MENU** button and turning the **TUNING** knob to select one of the 10 **NOAA WEATHER (WX) BAND** channels. To confirm, press the **PTT** button or press the **MENU** button. To resume the **NOAA WEATHER (WX) SCAN** function, press the **SCAN** button again.

To turn the **NOAA WEATHER RADIO** off, move the **BAND** switch from **WX** position to other position.

NOAA WEATHER ALERT

Your radio has a **NOAA WEATHER ALERT** function, to enable you to automatically receive weather alert from designated **NOAA** stations.

The **NOAA WEATHER ALERT** function is automatically on during **NOAA WEATHER SCAN** function.

To manually turn the **NOAA WEATHER (WX) ALERT** on, press the **MENU** button once while in **WX Band**. The **ALERT** icon will appear on the display while on the right an "oF" icon appears. Select "on" by turning the **TUNING** knob. To confirm, press the **PTT** or the **MENU** button. The radio will return to **WX BAND** and the **ALERT** icon will remain on the display. If the radio receives a **WX ALERT** signal from a designated **NOAA** station while on **WX** mode, the radio will beep for 20 seconds while an "AL" and "In" icon appear on the display while the **FLASHLIGHT** and the display illumination will blink altogether. After which the radio will automatically go to **NOAA WEATHER RADIO** mode.

If the radio receives a **WX ALERT** signal from a designated **NOAA** station while on **AM/FM** or **GMRS/FRS** mode, the radio will beep for 20 seconds while the **ALERT** icon will appear blinking on the display while the **FLASHLIGHT** and the display illumination will blink altogether. In this case, the user should set the **BAND** switch to **WX** position to listen for any weather alert broadcast.

*The **ALERT** icon will remain blinking on the display when it receives a **WX ALERT** signal unless the **BAND** switch is set to **WX** mode or any button is pressed. This is to remind the user that a **WX Alert** signal has been received, in case they missed it.*

To turn the **NOAA WEATHER (WX) ALERT** off, press the **MENU** button once while in **WX Band**. The **ALERT** icon will appear on the display while on the right an **"on"** icon appears. Select **"oF"** by turning the **TUNING** knob. To confirm, press the **PTT** or **MENU** button.

SETTING THE RADIO TO AM/FM RECEIVER MODE

To set your radio to **AM/FM RECEIVER** mode, move the **BAND** switch in **AM** or **FM** position. The LCD will show the current **AM** or **FM** channel setting.

***Note:** When switching from Weather or GMRS modes to AM or FM radio, you may notice a delay before the radio tunes into a station. This is normal operation and is not an indication the radio is not working. You may also notice this delay when Powering the Radio ON in AM or FM modes.*

CHANNEL SELECTION (AM/FM BAND)

Turn the **TUNING** knob clockwise or counter-clockwise to select the AM or FM frequency. Turning and holding the **TUNING** knob will make the radio scan for the frequency continuously until it receives a strong signal.

SETTING THE RADIO TO CLOCK MODE

To set your radio to **CLOCK** mode, just turn the **POWER/VOLUME** switch to **OFF**. The display will show the current time setting.

CHANGING THE HOUR SETTING


To change the hour setting of the clock, press the **LOCK/CALL/HOUR** button while in **CLOCK** mode, and the hour digit of the clock will blink. Turn the **TUNING** knob to change the hour setting. Press the **PTT/SELECT** button to confirm.

***Note:** The clock of the XT511A uses a 12-hour format, which means the clock will automatically change to AM or PM setting when you scroll at every 12:00 hour mark.*

CHANGING THE MINUTE SETTING


To change the minute setting of the clock, press the **SCAN/MINUTE** button while in **CLOCK** mode, and the minute digit of the clock will blink. Turn the **TUNING** knob to change the minute setting. Press the **PTT/SELECT** button to confirm.

SETTING THE ALARM CLOCK

The radio can also function as an **ALARM CLOCK**. To turn the **ALARM CLOCK** on, press the **ALARM ON/OFF** button while in **CLOCK** mode. The  icon will appear.

To set the hour setting of the **ALARM**, press the **LOCK/CALL/HOUR** button while in **CLOCK** mode, and the hour digit of the clock will blink. Turn the **TUNING** knob to change the hour setting. Press the **PTT/SELECT** button to confirm.

To set the minute setting of the **ALARM**, press the **SCAN/MINUTE** button while in **CLOCK** mode, and the minute digit of the clock will blink. Turn the **TUNING** knob to change the minute setting. Press the **PTT/SELECT** button to confirm.

To turn the **ALARM CLOCK** off, press the **ALARM ON/OFF** button while in **CLOCK** mode. The  icon will disappear.

ALARM CLOCK SNOOZE

When the **ALARM CLOCK** goes off, you can activate the **SNOOZE** function by pressing the **SNOOZE** button. Everytime the **SNOOZE** button is pressed the **ALARM CLOCK** will go off again after 8 minutes.

USING THE FLASHLIGHT

Your radio has a built-in **FLASHLIGHT**.

To turn the **FLASHLIGHT** on, set the **LIGHT** switch to ON.

To turn the **FLASHLIGHT** off, set the **LIGHT** switch to OFF.

EXTERNAL SPEAKER/MICROPHONE JACK

Your radio can be used with an optional external speaker/microphone or headset, freeing your hands for other tasks. You can also use the **HAND MIC** thru the **SPEAKER/MICROPHONE JACK**.

To use an optional speaker/microphone or headset:

- Open the **SPEAKER/MIC** Jack Rubber Cap on the side of the radio.
- Insert the plug(s) into the **SPK/MIC** jacks.
- Place the earbud into your ear, and adjust the mic into your desired position.

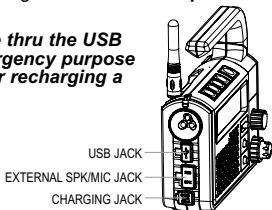
Note: *When the **HAND MIC** is connected, all audio will play through the **HAND MIC** because it is a speaker mic. This is normal operation.*

USB JACK

Your radio can be used to charge a mobile phone by the **DYNAMO CRANK, AC, or DC Adapter** thru the USB Jack.

- Open the **USB** Jack Rubber Cap on the side of the radio.
- Attach a **USB Charging Cable** (not included) to the mobile phone.
- Connect the other end of the **USB Charging Cable** to the **USB** Jack of the XT511A.
- Recharge the mobile phone battery by turning rapidly the **DYNAMO CRANK**, or by attaching the **AC or DC Adapter** in the Charging Jack.

Note: *Charging a mobile phone thru the **USB** Jack is intended for emergency purpose only. It is not intended for recharging a fully discharged battery.*



TROUBLESHOOTING GUIDE

PROBLEM SOLUTION

No Power	- Check battery installation and/or replace batteries.
Cannot Receive Messages	- Confirm the radios have the same channel and Privacy Code settings. - Make sure that you are within range of the other transceivers. - Buildings and other structures may interfere with your communication. <i>(see ABOUT RANGE on Page 12)</i>
Radio is not responding to button presses	- Make sure key lock is not on <i>(See Keypad Lock on Page 13)</i> . - Radio might need to be reset. Turn radio off then on. - Ensure accessory microphone is set properly
Display is dim	- Recharge or replace batteries.
Charger not functioning	- Ensure the Charger Plug is installed in the radio properly. - Ensure the outlet where the charger is plugged in is functioning properly. - Check that the battery pack is installed in the radio properly.

USE AND CARE

1. Use a soft damp cloth to clean the radio.
2. **Do not** use alcohol or cleaning solutions to clean the radio.
3. **Do not** immerse the radio in water.
4. Dry the radio with a dry lint-free cloth should it get wet.
5. Turn off the radio and remove the batteries during long-term storage.

If you have a problem which you believe requires service, please call first and speak with a service technician at 816-241-8500. Many problems can be remedied over the phone without returning the unit for service.

SPECIFICATIONS

- Channels** 22 GMRS/FRS Channels +121 Privacy Codes
10 NOAA Weather (WX) Band Channels
- Operating Frequency** UHF 462.5500 ~ 467.7125 MHz
AM : 520kHz ~ 1710kHz - 10kHz steps
FM : 87.5MHz ~ 108MHz - 100kHz steps
- Power Source** 4 AA Alkaline or 6.0V Rechargeable NiMH battery pack

GMRS/FRS FREQUENCY CHART (MHz)

CH. No	CH. Freq.	CH. No	CH. Freq.
1	462.5625	12	467.6625
2	462.5875	13	467.6875
3	462.6125	14	467.7125
4	462.6375	15	462.5500
5	462.6625	16	462.5750
6	462.6875	17	462.6000
7	462.7125	18	462.6250
8	467.5625	19	462.6500
9	467.5875	20	462.6750
10	467.6125	21	462.7000
11	467.6375	22	462.7250

* Channels 8~14 are low-power FRS license free channels

NOAA WEATHER (WX) RADIO FREQUENCY CHART (MHz)

CH. No	CH. Freq.	CH. No	CH. Freq.
1	162.550	6	162.500
2	162.400	7	162.525
3	162.475	8	161.650
4	162.425	9	161.775
5	162.450	10	163.275

* Channels 8, 9 and 10 are designated Canadian Marine Frequencies

CTCSS CODES FREQUENCY CHART

CODE	Freq.	CODE	Freq.	CODE	Freq.	CODE	Freq.
1	67.0	11	97.4	21	136.5	31	192.8
2	71.9	12	100.0	22	141.3	32	203.5
3	74.4	13	103.5	23	146.2	33	210.7
4	77.0	14	107.2	24	151.4	34	218.1
5	79.7	15	110.9	25	156.7	35	225.7
6	82.5	16	114.8	26	162.2	36	233.6
7	85.4	17	118.8	27	167.9	37	241.8
8	88.5	18	123.0	28	173.8	38	250.3
9	91.5	19	127.3	29	179.9		
10	94.8	20	131.8	30	186.2		

DCS PRIVACY CODES FREQUENCY CHART

No.	CODE	No.	CODE	No.	CODE
1	023	29	174	57	445
2	025	30	205	58	464
3	026	31	223	59	465
4	031	32	226	60	466
5	032	33	243	61	503
6	043	34	244	62	506
7	047	35	245	63	516
8	051	36	251	64	532
9	054	37	261	65	546
10	065	38	263	66	565
11	071	39	265	67	606
12	072	40	271	68	612
13	073	41	306	69	624
14	074	42	311	70	627
15	114	43	315	71	631
16	115	44	331	72	632
17	116	45	343	73	654
18	125	46	346	74	662
19	131	47	351	75	664
20	132	48	364	76	703
21	134	49	365	77	712
22	143	50	371	78	723
23	152	51	411	79	731
24	155	52	412	80	732
25	156	53	413	81	734
26	162	54	423	82	743
27	165	55	431	83	754
28	172	56	432	-	-

IMPORTANT: Changes or modifications to this unit not expressly approved by **MIDLAND RADIO CORP.** could void your right to operate this unit. Your radio is set up to transmit a regulated signal on an assigned frequency. It is against the law to alter or adjust the settings inside the **COMMUNICATOR** to exceed those limitations. Any adjustment to your radio must be made by qualified technicians.

LIMITED WARRANTY (United States and Canada)

Subject to the exclusions set forth below, Midland Radio Corporation will repair or replace, at its option without charge, any Midland FRS/GMRS transceiver which fails due to a defect in material or workmanship within Three Years following the initial consumer purchase.

This warranty does not apply to water damage, battery leak, abuse or misuse of unauthorized accessories, unauthorized service or modification or altered products. Accessories have a 90 day warranty from date of purchase, including any chargers, microphones, and cables.

This warranty does not include the cost of labor for removal or re-installation of the product in a vehicle or other mounting.

ANY IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED AS SET FORTH HEREIN AND TO THE DURATION OF THE LIMITED WARRANTY. OTHERWISE THE REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS EXPRESS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER AND IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. IN NO EVENT SHALL MIDLAND BE LIABLE, WHETHER IN CONTRACT OR TORT (INCLUDING BUT NOT LIMITED TO NEGLIGENCE, GROSS NEGLIGENCE, BODILY INJURY, PROPERTY DAMAGE AND DEATH) 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 DATA 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.

For Product Purchased in the USA:

Performance of any obligation under this warranty may be obtained by returning the warranted product, prepaid freight, along with proof of purchase to:

**Midland Radio Corporation
Warranty Service Department
5900 Parretta Drive
Kansas City, MO 64120**

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

Note: The above warranty applies only to merchandise purchased in the United States of America or any of the territories or possessions thereof, or from a U.S. Military exchange.

For Product Purchased in Canada:

Performance of any obligation under this warranty may be obtained by returning the warranted product, along with proof of purchase, to your place of purchase in Canada.

This warranty gives you specified legal rights. Additional warranty rights may be provided by law in some areas within Canada.

ACCESSORIES

Accessories can be purchased at midlandusa.com.



AVP1

- Over the Ear Headsets



AVPH5

- Behind the Head Headsets



AVP7

- Pair of Ni-MH Rechargeable Battery Packs



AVPH7

- Camo Headsets with Boom Mic



AVPH2

- Closed Face Helmet Headset Kit



AVP-H8

- Acoustic Throat Mic



AVPH3

- Surveillance Headsets



AVPH10

- Shoulder Speaker Mic



AVPH4

- Wrap Around the Ear Headsets


X-TALKER*2-Way Radios**Weather Radios**Business 2-Way Radios***LXT / GXT***2-Way Radios**Emergency Crank Radios**CB Radios*

IMPORTANT: This device complies with Industry 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.

IMPORTANT: Le présent appareil est conforme aux CNR d'Industrie Canada applicables 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.

FVIN Information: Vxxx. To verify the FVIN, press and hold the SCAN button while the XT511A is powered-off, then rotate the VOLUME Switch to power on the radio.

Then the FVIN will be displayed in the LCD for about 2 seconds.



MIDLAND RADIO CORPORATION
5900 Parretta Drive
Kansas City, MO 64120
Call 816.241.8500

We'd love to hear from you! Let us know what you think of your new Midland product at



or by visiting us at
midlandusa.com

Note: Features & Specifications are subject to change without notice. MIDLAND is not responsible for unintentional errors or omissions on its packaging.