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Welcome to the world of Midland electronics

Congratulations on your purchase of a high quality MIDLAND product. Your 2-way radio represents state-of-the-art high-tech engineering. Designed for FRS (Family Radio Service) operation, this compact package is big on performance. 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 FRS Channel
- Call Alert
- Scan Function
- Roger Beep Tone
- Silent Operation
- Kevpad Lock
- Power HI/LO Settings
- Auto Squelch
- Speaker / Microphone Jacks
- Battery Life Extender
- 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

BATTERY COMPARTMENT Press here and nush down to one BELT CLIP LATCH

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 on







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.

INSTALLING THE BELT CLIP

To install the BELT CLIP, slide the clip up into the slot on the back of the radio until the BELT CLIP LATCH clicks. To remove the BELT CLIP, press the LOCK TAB up, then gently pull the belt clip down toward the bottom of the radio.

CHARGING THE BATTERY PACK

Your radio is equipped to use a rechargeable NiMH battery pack which can be recharged with the optional desktop charger (as described below). The radio can also be charged by inserting the AC adapter into the radio charge jack. Initial charge time is 24 hours. Charge time is about 12 hours thereafter. For maximum battery life, we recommend charging the battery pack when the low battery icon comes on. Remove the radios from the charger when the charge time

To charge using a Desktop Charger:

- 1. Place the rechargeable battery packs in the radios.
- 2. Connect the AC adapter into an AC wall outlet.
- 3. Insert the AC adapter plug (or DC Cigarette Lighter adapter if charging in vehicle) into the desktop charger jack.
- 4. Place the units into the desktop charger slot and note that the LED indicator with RED color will light up, indicating charging function.

IMPORTANT NOTICE

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 Midlandsupplied 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.

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.

- 1. Only use our NiMH battery pack and AC adapter.
- 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.

LOW BATTERY LEVEL INDICATOR

When the battery voltage gets low, the LOW BATTERY ICON will blink along with the message "bt Lo" on the display. When using the rechargeable battery pack, the low battery icon will indicate that you are very close to the batteries being exhausted. When using AAA Alakaline batteries, the low battery icon means you have about 50% of battery life remaining

OPERATING YOUR RADIO

POWER ON/OFF AND VOLUME

Press the **POWER/MENU** button for at least 3 seconds to turn the radio on/off. During Power On, the radio will beep 3 times with different tones, the LCD will display all icons for 1 second and the LCD display will indicate the last channel selected

To increase/decrease the volume level, press the ▲\▼ buttons during RX or STANDBY mode.

TRANSMITTING AND RECEIVING A CALL

To communicate, all radios in your group must be set to the same

- 1. For maximum clarity, hold the radio at least 1 inch (2.5 cm) from your mouth.
- 2. 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
- 3. To receive a call, release the PTT button. The RX icon will appear on the display when your radio is receiving a transmission.

LCD DISPLAY



CONTROLS



(11)

14)

- 1. LOW BATTERY ICON Indicates the
- 2. TRANSMIT (TX) ICON Indicates
- radio is transmitting a signal.

 3. CHANNEL NUMBER Changes from
- KEY LOCK ICON Indicates KEY LOCK mode is on.
- 5. RECEIVE (RX) ICON Indicates
- 6. TRANSMIT POWER LEVEL ICON -
- 7. PTT Button Press and hold to transmit voice communication.
- 8. CALL/LOCK Button Press to send a CALL Alert signal. Press and hold to turn KEY LOCK on/off.
- 9 MIC Built-in microphone
- 10 SPEAKER Built-in speaker
- 11 ΔΝΤΕΝΝΔ
- 12. EXTERNAL SPEAKER/MIC/CHG.
- 13. POWER / MENU Button Press and hold for at least 3 seconds to turn the radio on/off. Press momentarily to access Menu mode.
- 14. SCAN Button Press to enter SCAN
- 15. UP ▲ and DOWN ▼ Buttons -

BATTERY INSTALLATION

Your radio operates with either a NiMH battery pack or optional 4 AAA alkaline batteries. The belt clip should be removed to ease installation or removal of the batteries

To install the hatteries:

- 1. With the back of the radio facing you, remove the belt clip (see diagram on the next page) for easy access, then remove the Battery Cover by pressing down on the top center and sliding it down from the
- 2. Insert 4 AAA batteries observing the polarity as shown. Installing the batteries incorrectly will prevent the unit from operating or may damage the unit.
- 3. Return the Battery Cover by sliding it up on the radio. Replace the belt clip, making sure it locks into place.

ABOUT RANGE

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



Short Range / Major Obstruction to Line of Sight

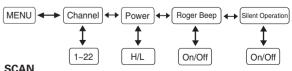
Optimum Conditions are:

- 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 to set your radio to use Hi power.

LXT Series QUICK REFERENCE CHART



Your radios can scan all 22 channels for activity. To enter, quickly 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 for 4 seconds before resuming scan.

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, quickly press the SCAN button.

CALL ALERT

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

KEYPAD LOCK

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

CHANNEL SELECTION (FRS BAND)

Press the MENU button once, and then the AV buttons to select one of the 22 FRS channels. To confirm the selection, press the PTT button or press the MENU button again to move to the next feature

Note: To communicate between two radios, all radios in your group must be set to the same channel.

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 appears blinking on the display. Then press the ▲\▼ buttons to select TRANSMIT POWER LEVEL icon (H: Hi/L: Lo). To confirm, press the PTT button or press the MENU button again to move to the next feature setting

Note: You cannot adjust the power setting on channels 8~14. They are set to Lo power per FCC regulations.

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 turn the ROGER BEEP tone on, press the MENU button until the display shows a "rb" icon while on the right of the "rb" display, an "oF icon appears. Select "on" by pressing the \\ buttons and push the PTT key, or press the MENU button to move to the next feature

To turn the ROGER BEEP tone off, press the MENU button until the display shows a "rb" icon while on the right of the "rb" display, an "on" icon appears. Select "oF" by pressing the \\ buttons and push the PTT key, or press the MENU button to move to the next feature

SILENT OPERATION

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

To turn the SILENT OPERATION mode on, press the MENU button until the display shows a "bP" icon while on the right of the "bP" display, an "on" icon appears. Select "oF" by pressing the ▲\▼ buttons and push the PTT key or the MENU button

To turn the SILENT OPERATION mode off, press the MENU button until the display shows a "bP" icon while on the right of the "bP" display, an "oF" icon appears. Select "on" by pressing the \\\ buttons and push the PTT key or the MENU button.

EXTERNAL SPEAKER/MICROPHONE JACK

Your radio can be used with an optional external speaker/microphone or headset, freeing your hands for other tasks. To use an optional speaker/ microphone or headset:

- Insert the plug(s) into the SPK/MIC jacks.
- Place the earbud into your ear, and adjust the mic into your desired position.

Note: You can charge a rechargeable NiMH battery pack thru the CHG Jack



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 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 FITHESS 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 VIALUABLE, 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

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



AVPH7 Headsets with Boom Mic



AVPH2 Closed Face Helmet Headset Kit

Surveillance

Headsets



AVP-H8 Mic



AVP6 Chargers and Ratteries



Wrap Around the Ear Headsets

AVPH4



AVPH5 Behind the Head Headsets

TROUBLESHOOTING GUIDE

PROBLEM SOLUTION No Powe Check battery installation and/or replace batteries Cannot Receive Confirm the radios have the same channel Messages settings Make sure that you are within range of the other transceivers Buildings and other structures may interfere with your communication Radio is not responding Make sure key lock is not on (See Keypad Lock). to button presses Radio might need to be reset. Turn radio off then Display is dim Recharge or replace batteries

in is functioning properly.

Contacts on the bottom of the radio may require

Ensure the outlet where the charger is plugged

Check that the battery pack is installed in the radio

USE AND CARE

Charger not functioning

- 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.

cleaning

5. Turn off the radio and remove the batteries during long-term

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.



IMPORTANT: This device complies with Industry Canada licence-exer RSS standard(s). Operation is subject to the following two conditions: (1 his device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesir operation of the device.

IMPORTANT: Le présent appareil est conforme aux CNR d'Industric Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pa produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tou prouillage radioélectrique subi même si le brouillage est susceptible d'en compromettre le fonctionnement.

SPECIFICATIONS

22 FRS Channels Channels

Operating Frequency UHF 462.5500 ~ 467.7125 MHz

Power Source 4 AAA Alkaline or 4.8V Rechargeable NiMH

battery pack

FRS FREQUENCY CHART (MHz)

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

* Channels 8~14 are low-power FRS channels

IMPORTANT: Changes or modifications to this unit not expressl 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 quency. It is against the law to alter or adjust the settings inside the COMMUNICATOR to exceed those limitations. Any adjustment to you radio must be made by qualified technicians.