



Mobile Communications



MDX™ CONVENTIONAL MOBILE RADIO

Operator's Manual

TABLE OF CONTENTS

| | <u>Page</u> |
|---|-------------|
| SAFETY INFORMATION | 4 |
| SAFE DRIVING RECOMMENDATIONS FOR USERS OF MOBILE RADIOS* | 5 |
| OPERATING PROCEDURES | 5 |
| INTRODUCTION | 6 |
| CONTROLS, INDICATORS, AND DISPLAYS | 7 |
| CONTROLS | 7 |
| CONTROLS AND INDICATORS | 8 |
| DISPLAY INDICATORS | 10 |
| DISPLAY ALPHA INDICATORS | 11 |
| OPERATING THE RADIO | 12 |
| TURNING THE RADIO ON | 12 |
| SELECT | 13 |
| CONVENTIONAL MODE OPERATION | 13 |
| RECEIVING A CALL | 13 |
| SENDING A MESSAGE | 13 |
| TALK-AROUND | 14 |
| SCAN OPERATION | 14 |
| SCAN SETUP | 14 |
| STARTING OR STOPPING SCAN | 14 |

TABLE OF CONTENTS (CONTINUED)

| | <u>Page</u> |
|--|-------------|
| ADDING/DELETING TO/FROM SCAN | 14 |
| RECEIVER SCAN RATE | 15 |
| USING THE RADIO WITH SCAN | 16 |
| OPTIONS | 21 |
| AVAILABLE OPTIONS | 22 |
| OPERATING TIPS | Back Cover |

SAFETY INFORMATION

The operator of any mobile radio should be aware of certain hazards common to the operation of vehicular radio transmissions.

A list of possible hazards are:

1. Explosive Atmospheres

Just as it is dangerous to fuel a vehicle with the motor running, be sure to turn the radio off while fueling the vehicle. Do not carry containers of fuel in the trunk.

2. Interference to Vehicular Electronics Systems

Electronic fuel injection systems, electronic anti skid braking systems, etc., are typical of the type of electronic devices that may malfunction due to the lack of protection from radio frequency energy present when transmitting. If the vehicle contains such equipment, consult the dealer for the make of the vehicle and enlist his aid in determining if such electronic circuits perform normally when the radio is transmitting.

3. Dynamite Blasting Caps

Dynamite blasting caps may be caused to explode by operating a radio within 500 feet of the blasting caps. Always obey the "**Turn Off Two Way Radios**" signs posted where dynamite is being used. When transporting blasting caps in your vehicle:

- a. Carry the blasting caps in a closed metal box with a soft lining.
- b. Leave the radio **OFF** whenever the blasting caps are being put into or removed from the vehicle.

4. Radio Frequency Energy

To prevent burns or related physical injury from radio frequency energy, do not operate the transmitter when anyone outside of the vehicle is within two feet of the antenna.

5. Liquefied (LP) Gas Powered Vehicles

Mobile radio installations in vehicles powered by liquefied petroleum gas with the LP gas container in the trunk or other sealed-off space

within the interior of the vehicle must conform to the National Fire Protection Association standard (NEPA) 58 which requires that:

- a. The space containing the radio equipment shall be isolated by a seal from the space containing the LP gas container and its fittings.
- b. Outside filling connections shall be used for the LP gas container.
- c. The LP gas container shall be vented to the outside of the vehicle.

SAFE DRIVING RECOMMENDATIONS FOR USERS OF MOBILE RADIOS*

Read the literature on the safe operation of the radio.

- Keep both hands on the steering wheel and the microphone in its cradle whenever the vehicle is in motion.
- Place calls only when vehicle is stopped. Use recall dialing to speed the time it takes to call.
- When talking from a moving vehicle is unavoidable, drive in the slower lane. Keep conversations brief.
- If conversation requires taking notes or complex thought, stop the vehicle in a safe place and continue the call.

Whenever using a mobile radio exercise caution.

*As recommended by the AAA

OPERATING PROCEDURES

Two-way **FM** radio systems must be operated in accordance with the rules and regulations of the Federal Communications Commission (FCC). Operators of two-way radio equipment must be thoroughly familiar with the rules that apply to the intended type of radio operation. Following these rules will help to eliminate confusion, assure the most efficient use of existing radio channels, and result in a smoothly functioning radio network. When using this two-way radio remember these rules:

1. It is a violation of FCC rules to interrupt any distress or emergency message. As the radio operates in much the same way as a telephone "party line", always listen to make sure that the line is clear - that no one else is on the air - before sending messages. If someone is sending an emergency message - such as reporting a fire, or asking for help in an accident - **KEEP OFF THE AIR!** Emergency calls have priority over all other messages.
2. Use of profane or obscene language is prohibited by Federal law.
3. It is against the law to send false call letters, or a false distress or emergency message.
4. The FCC requires that conversations be kept brief and confined to business. To save time, use coded messages whenever possible.
5. Using a radio to send personal messages (except in an emergency) is a violation of the FCC rules. Send only those messages that are essential for business operation.
6. It is against Federal law to repeat or otherwise make known anything overheard on the radio. Conversations between others sharing a channel must be regarded as confidential.
7. The FCC requires the operator to identify himself at certain times by means of call letters. Refer to the rules that apply to the particular type of operation for the proper procedure.
8. No changes or adjustments shall be made to the equipment except by an authorized or certified electronics technician.

INTRODUCTION

This manual describes how to use the MDX Conventional Mobile Radio. The MDX is a synthesized, microprocessor-based, high performance simplex mobile FM radio providing reliable two-way communications. Direct mobile to mobile communication, when out of repeater range, is also provided.

In the **Conventional** mode, the user selects a channel and directly communicates on that channel. In this mode, a system refers to a set of channels and a channel is a transmit/receive radio frequency pair.

The exact operation of the radio will depend on the operating mode, the radio's programming, and the particular radio system. Most features described in this manual may be enabled or disabled through programming. Consult the system administrator for the particular features that are programmed into your MDX radio.

The following feature encrypted options are standard with the MDX conventional mobile radio:

| | |
|--------|--|
| PMPL3M | Serial Control Unit (Control Head Operation) |
| PMPL3K | Scan, Dual Priority |
| PMPL3F | 16 channel operation |
| PMPL3G | 32 channel operation |
| PMPL3H | 64 channel operation |
| PMPL3J | 128 channel operation |

The following feature encrypted options can also be ordered:

| | |
|--------|---|
| PMPL3C | Type 99 Decode |
| PMPL3D | Public Address and External Speaker Switch (Requires option PMSU5A) |
| PMPL3E | Emergency (GE-STAR) and GE-STAR ANI |

CONTROLS, INDICATORS, AND DISPLAYS

The MDX Conventional mobile radio contains ten buttons, an eight character DOT MATRIX display and seven indicators (see Figure 1). In addition, there are times when part of the eight character display is used to display the radio status. Backlighting on buttons illuminate the Legends.

CONTROLS

| | |
|--------|--|
| POWER | Momentary push-push switch. Press once to turn the radio ON. Press again to turn the radio OFF. |
| VOLUME | The momentary switches (auto ramping) VOLUME + and VOLUME -. Beeps each time the VOLUME button is pressed, except when a call is in process. Hold the button (up or down) to auto ramp the volume. |

8-Character Alphanumeric Dot Matrix LED allows you to identify channel selections by descriptive names. Names, menu options, and status information are displayed here.

MENU button allows access to functions and options, including scan add/delete for modifying the radio's scan list and alarm on/off for the external alarm option that uses your horn or head lights to signal an incoming call.

Emergency ID/ Alarm (optional) sends an emergency (GESTAR) alert and identifying code to the dispatcher. If no emergency function is required, this can be programmed as a "HOME" switch.

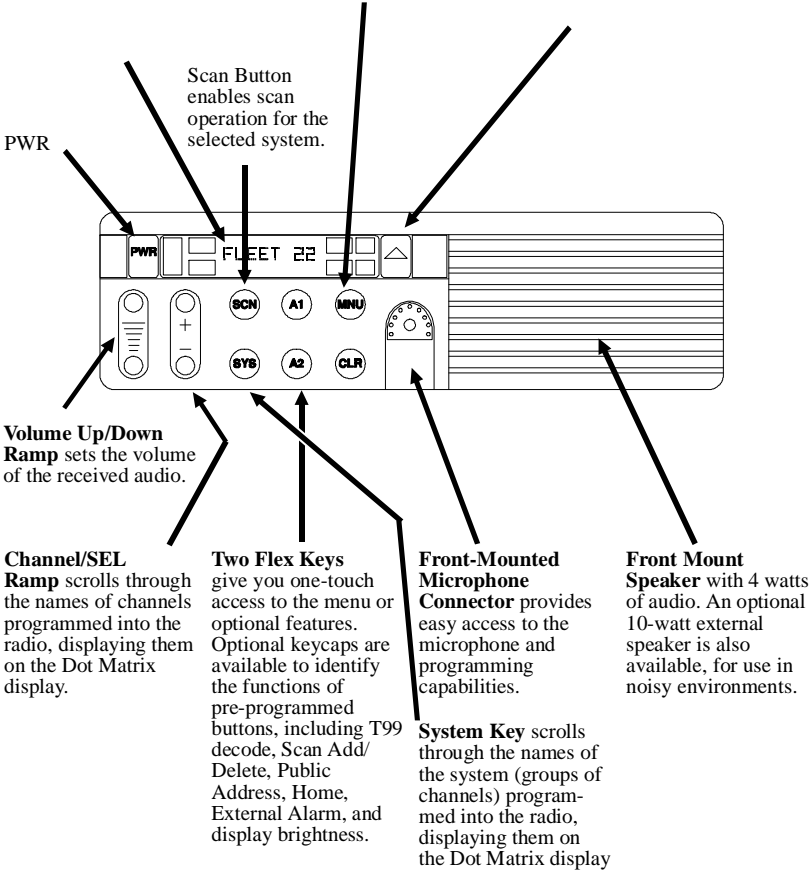


Figure 1 - MDX VHF Conventional Radio

CONTROLS AND INDICATORS

CONTROLS (CONT'D)

MENU

Momentary switch. The **MENU** button is used to access options on the MDX mobile. Menu operation is coupled with the **CHANNEL/SEL** buttons and the **CLR** button. To increment from one menu selection to the next, simply press and release the **MENU** button. Press the **CLR** button to return to normal operation. The menu choices are listed below with a description of how to change the choices (Note: You may have some or all of these menu choices programmed in your radio, and they may be programmed in a different order than presented here).

BACKLIGHT: Press the **MENU** button until "BRIGHT" appears in the display. To change the state of the backlight press the **CHANNEL/SEL +** or **-** button.

PUBLIC ADDRESS: Press the **MENU** button until "PUB ADDR" appears in the display. Press **PTT** to transmit in PA mode.

SCAN ADD/DELETE: Press the **MENU** button until "SCAN A/D" appears in the display. Use the **CHANNEL/SEL-** button to step through the group selections for the current system. Use the **CHANNEL/SEL +** button to change the scan state. An "S" is illuminated to the right of the display if the group/channel has SCAN enabled.

ALARM ON/OFF: Press the **MENU** button until "ALM ON" or "ALM OFF" appears in the display. Press the **CHANNEL/SEL +** or **-** buttons until the desired state is selected. (Note: This enables or disables the external alarm e.g. horn or lights.)

SQUELCH

Press and hold "Scan" button, use "volume" up to loosen squelch and down to tighten squelch.

CONTROLS (CONT'D)

| | |
|---------------------|---|
| SYS | Momentary switch. The SYS (SYSTEM) button is used to select system changes. System may be incremented by pressing and releasing the SYS button. Alternately, when the display shows the System name, the CHANNEL/SEL buttons may be used to increment or decrement the system selections. (NOTE: The radio may be programmed with wrap around on the system selection; this would allow the radio to switch from the highest to lowest system with one change instead of ramping all the way through the list.) |
| CHANNEL/SEL | Ramp Switch. The CHANNEL/SEL button is used to increment or decrement the current channel selection. It is also used as described above to increment/decrement the System. In conventional mode, these buttons change the channel selection. |
| CLR | Momentary switch. The CLR button is used to exit from the menu operation, monitor a conventional channel or end a special/individual call. |
| HOME/ EMERGENCY | Momentary switch. The HOME or EMERGENCY button is used to select a home system, or channel. The radio may be programmed to revert to a particular system or channel within the selected or home system. It may also be programmed to send an emergency message (GESTAR) when pressed and held for approximately one second (either on the selected system or on the Home system). |
| FLEX KEYS A1, A2 | The auxiliary buttons are used to access frequently used menu selections quickly. They can also be programmed as a HOME, External Alarm, Public Address, T99 decode, and Scan add/delete. |

DISPLAY INDICATORS

The radio's display is shown in Figure 2. The character line is used to display system or area and group or channel names and also operational messages to the user. The line contains eight Dot Matrix LED characters. The 7 status indicators are used to show the various operating conditions of the radio.

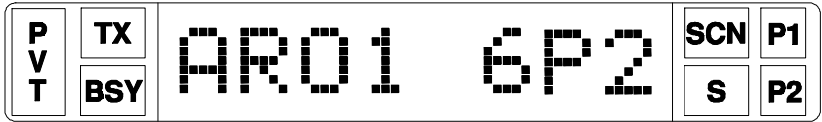


Figure 2 - Sample MDX Display

| | |
|-----|--|
| PVT | Reserved for future use (Aegis Communications). |
| TX | On indicates the radio is transmitting. |
| BSY | Lights when a channel is busy (RF carrier present). |
| SCN | ON indicates scan is enabled. |
| S | ON indicates channel in scan list. |
| P1 | ON indicates selected channel is a priority 1 channel. |
| P2 | ON indicates selected channel is a priority 2 channel. |

DISPLAY ALPHA INDICATORS

The radio is capable of displaying status indicators in the alpha display. Some of these messages will use the entire display while others use only two or three characters. When the short message is displayed it may be on the right or left of the display (PC programmable). It is separated from the normal information with an indicator such as an asterisk ("*").

| | |
|----------|--|
| T99 | T99 call received alternates with current channel display. |
| T99 On | Menu display indicating T99 option is enabled. |
| T99 Off | Menu display indicating T99 option is disabled. |
| Pub Addr | Public address option enabled. |

ALERT TONES

The MDX Conventional mobile radio generates a set of unique alert tones to indicate operating status. The following section identifies and describes the alert tones used in the MDX radio.

| | |
|--------------------------|---|
| SELF CHECK TEST ALERT | One beep is sounded after the radio is turned on to indicate that the radio has passed the self diagnostic test. Optional in PC programmer. |
| CALL DISABLED ALERT | You will hear a continuous low pitched tone when your radio is set to a receive (decode) only channel and you press PTT on the microphone. This tone indicates that you are not allowed to place a call on this setting. |
| CARRIER CONTROL TIMER | The Carrier Control Timer alert is a pulsing pitched tone you will hear whenever you have kept the PTT button continuously pressed for a preprogrammed length of time. The transmitter shuts down when the pulsing low pitched tone starts, interrupting communications. To maintain communications, release and re-key the microphone. This resets the timer and turns the transmitter back on. The CCT is a built in precaution against extended use of the system. |
| T99 CALL RECEIVED | After decoding a T99 call, the received signalling 2-tone is sounded to alert you of the incoming call. |

OPERATING THE RADIO

TURNING THE RADIO ON

1. Push the POWER switch. The display shows the channel alpha name once power up is complete. When powering up, the last selected Channel should be displayed unless the radio is programmed for a preprogrammed power up. The radio optionally generates a beep once the power up sequence is complete.
2. Set the volume using the VOLUME RAMP button. A short beep sounds each time the VOLUME button is pressed. The beeps will not sound if a call is being received.

SELECT

To select a different channel when you have selected a conventional system:

1. Press the **CHANNEL/SEL** + or - ramp button until the desired channel name appears in the alphanumeric display. A tone sounds each time the channel name changes unless the **BSY** indicator is on.

CONVENTIONAL MODE OPERATION

1. Select the conventional channel using +/- ramp button.
2. Determine if the channel is in use before making the call by pressing **CLR** to momentarily disable the squelch and monitor the channel for activity. Also, removing the MIC from the holder disables Channel Guard which allows monitoring of the channel without disabling the squelch.
3. Press PTT to send the message.

RECEIVING A CALL

1. Make sure that the radio is turned **ON**, and the proper channel is selected using the **CHANNEL/SEL** + or - ramp button and the **SYS** button.
2. Press the **CLR** button to monitor the channel. Noise will be heard if there is no activity on the channel. This function is also useful for setting the desired volume level.
3. You will hear the voice message automatically if a valid message is received by your radio.

SENDING A MESSAGE

1. Make sure the radio is turned **ON**, and the proper Channel and System have been selected.
2. Press and hold the **CLR** switch and then adjust the **VOLUME** controls for the desired listening level. Release **CLR** switch.
3. Decide what you want to say. If you intend a lengthy message (or several messages), the vehicle engine should be running to maintain the battery charge.

4. Observe the BSY indicator and then press CLR the switch to assure that the channel is not in use.
5. Remove microphone from the hanger, press the PTT switch and identify yourself. The **TX** indicator will be shown each time the PTT switch is pressed.
6. Release the PTT switch and wait for an answer to your call. Then complete your message.
7. When the PTT switch is pressed continuously for a pre-programmed time (default of 30 seconds), the carrier control timer (if enabled) will sound a pulsed alert tone and unkey the transmitter. Release and press the PTT switch again to reset the timer and resume conversation.

NOTE

Always speak in a normal tone of voice. Hold the microphone cupped in your hand and touching your cheek lightly. Speak across the face of your microphone, not directly into it. Shouting will degrade your transmission, so do not speak any louder than normal.

SCAN OPERATION

SCAN SETUP

You may program your radio to scan a number of Channels for activity on the selected system.

Starting Or Stopping SCAN

Press the SCAN button to alternate between Scan on (SCN indicator illuminated) and Scan off (indicator dark).

Adding/Deleting To/From SCAN

SCAN should be off before changing the SCAN list.

1. Press the menu button until SCAN A/D is displayed.
2. Press the CHANNEL/SEL (-) button until the CHANNEL name is displayed.

3. Press the CHANNEL/SEL (+) button until the desired priority level is displayed by the scan priority indicators on the right side of the display; the choices are S, P2; P1 or all off (all off removes the channel from the SCAN list).
4. Press the CLR button when completed to return to normal operation.

If your radio has one of the auxiliary keys preprogrammed to edit the SCAN list, the list may be changed by using the CHANNEL/SEL buttons to display the CHANNEL name, and then pressing the auxiliary key until the desired level is displayed.

NOTES

1. The radio will remember the scan state through a power cycle unless programmed with a predefined power up state.
2. The radio may be programmed to stop scanning when the microphone is removed from the hookswitch.
3. When the radio is programmed, a FIXED SCAN list can be specified. If this is done, the SCAN list cannot be changed.
4. A previous channel with priority will become a non-priority scan channel when a new priority channel is programmed.

The SCAN function allows monitoring of up to 16 receive channels on the selected system. The scanned channels may be any frequency within the frequency band limits of the radio and may be Channel Guard protected. All scan functions are retained in memory, even if the 12 Volt vehicle battery is disconnected.

Any channel may be scanned with or without a priority level. One channel may be programmed for Priority 1 (P1) and another for Priority 2 (P2) with any or all remaining channels programmed as non-priorities.

RECEIVER SCAN RATE

The scan rate for the radio will vary depending upon the number of channels programmed into the scan list and whether or not Channel Guard is programmed. The scan rate will be faster when fewer channels are programmed into scan memory.

Scan operation will be determined by the following conditions:

- **PRIORITY 1, PRIORITY 2 and NON-PRIORITY PROGRAMMED**
The Priority 1, Priority 2 and up to 14 remaining channels will be scanned. Once a carrier is detected (and if programmed, the correct Channel Guard is decoded), the display will indicate that channel. Sampling of the Priority 1 and Priority 2 channels continues while receiving a message. Should a Priority 1 or 2 channel carrier (and correct Channel Guard) be detected while a non-priority channel is being received, the applicable indicator, P1 or P2 lights, and the channel is switched to the Priority 1 or 2 channel regardless of what is being received on the non-priority channel.
- **NON-PRIORITY PROGRAMMED**
Up to 16 non-priority channels may be scanned. Once a carrier is detected (or correct Channel Guard is decoded) the digital display will indicate that channel. Scanning will stop and remain on the channel until the carrier disappears; after a few seconds scanning resumes. The channels are scanned in descending order.

USING THE RADIO WITH SCAN

The Selected Channel

The SELECTED channel is the channel in the display when scan is turned on by pushing the SCAN switch. When a signal is not being received, the radio reverts to this channel for transmitting. When a signal is being received, the radio can be PC programmed to either revert to the SELECTED channel or remain on the received channel for transmission.

The SELECTED channel does not necessarily have to be a channel in the scan list. The SELECTED channel will be temporarily entered into the scan list and scanned until the SELECTED channel is changed.

When scan is turned off by pushing the SCAN switch, the radio will return to the SELECTED channel.

Display

Channel indicator

While no signal is being received, the channel indicator will always show the SELECTED channel. When an active channel is received, the channel indicator will show the received channel.

SCN indicator

When the SCAN button is pushed, the radio will light the SCN indicator and begin scanning. The SCN indicator will flash when the microphone is placed off-hook to show the radio is no longer scanning (only if the radio is PC programmed not to scan off-hook).

Transmitting While In Scan:

Transmitter operation in scan is determined by the PC programming of the radio's personality. A flow chart is provided in this section to summarize the scan operation described below.

- Off-hook scan not enabled (default):

With off-hook scan not enabled (normal default condition), all scanning will stop when the microphone is placed off-hook. The SCN indicator will flash to show all scanning has stopped. If a signal is not being received when the mic is placed off-hook, the radio will transmit on the SELECTED channel. If a signal is being received when the mic is placed off-hook, the radio can be PC programmed (using the "scan transmit option") to either stay on the receive channel or revert to the SELECTED channel. When the mic is placed back on-hook, the radio will immediately start scanning, even if the received channel was still active.

- Off-hook scan enabled:

With off-hook scan enabled, moving the microphone off-hook will not affect scan operation. The radio will continue scanning. If a signal is not being received, the radio will transmit on the SELECTED channel. If a signal is being received, the radio can be PC programmed (using the "scan transmit channel" option) to either stay on the receive channel or revert to the SELECTED channel when the mic PTT is keyed.

- On-hook

When the microphone is on-hook (in the microphone hanger) and the radio is not receiving a channel, the radio always transmits on the SELECTED channel.

When the radio is receiving a channel the radio's personality can be programmed to transmit either on the received channel or the SELECTED channel. If the radio was programmed for the SELECTED channel, the display changes to the SELECTED channel when the transmitter is keyed.

Monitor (CLR) Switch Operation In Scan

The CLR switch does not operate while scanning inactive channels. When a channel becomes active, the CLR switch operates only during the scan hang time after the channel activity disappears.

Channel Changes In Scan

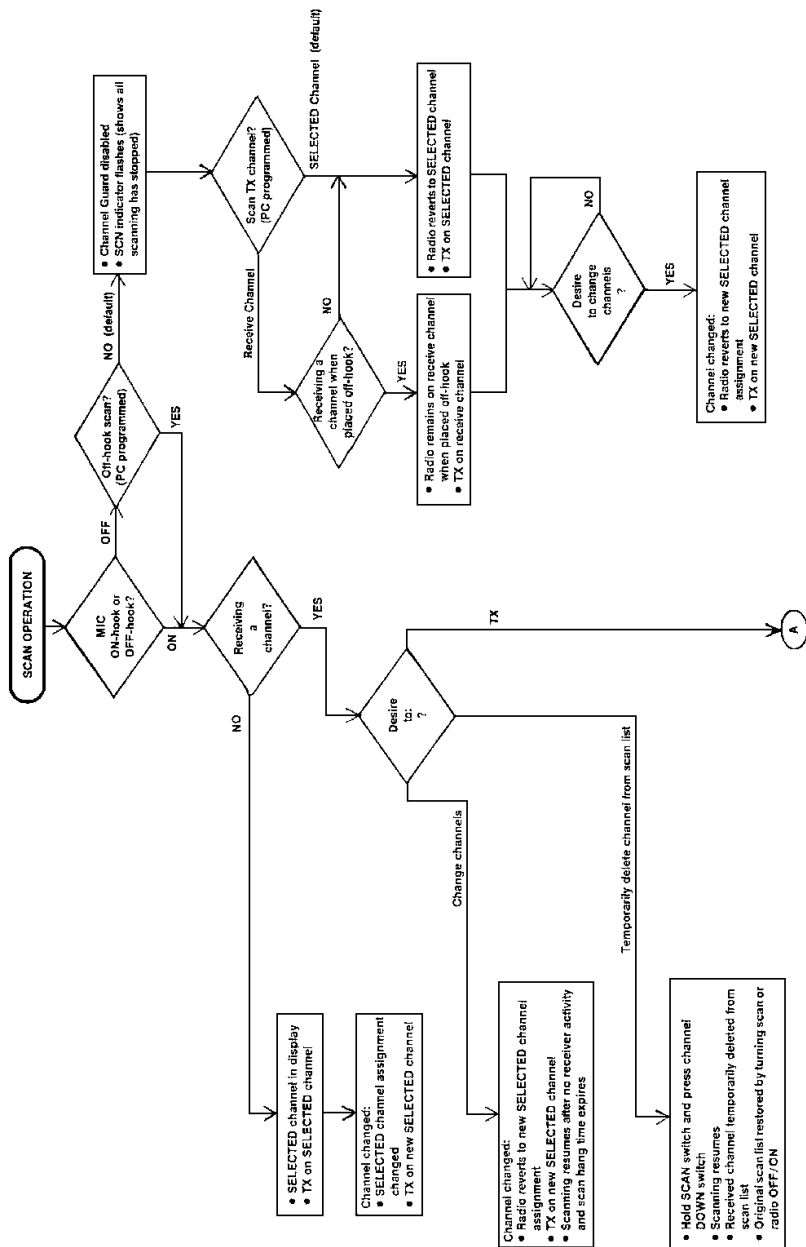
Pushing the channel switches (UP or DOWN) while scan is turned on will change the SELECTED channel assignment. This new selected channel is not stored in the radio's memory for subsequent recall upon a power down/power up cycle. The new selected channel will be recalled (upon a power cycle) only if selected with scan disabled. If a signal is being received and the channel switches are pushed, the radio will revert to the new SELECTED channel assignment. After 2 seconds, if no activity appears on the new SELECTED channel, scanning will resume. If the SELECTED channel is changed to a channel not in the scan list, the new channel will be temporarily added to the scan list until the SELECTED channel is changed again.

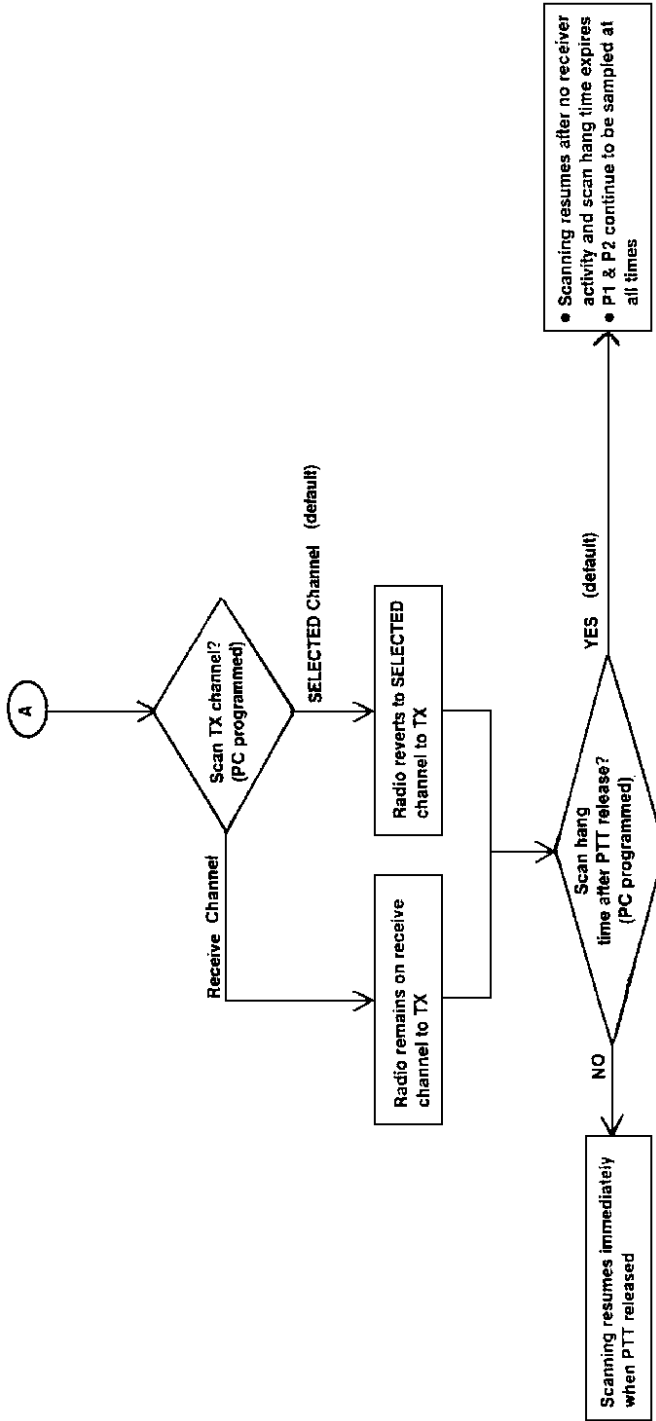
- Temporary channel deletions

The SCAN function must be turned off to make any permanent changes (additions, deletions, re-priorizations) to the scan list. While in scan, temporary channel deletions may be made to the scan list. The original scan list will be back in effect by either turning scan off (by pushing the SCAN switch) or by turning the radio power off and back on.

When the radio stops scanning on an active channel, the channel may be temporarily deleted by holding the SCAN switch and then pressing the CHANNEL DOWN switch. The radio will immediately resume scanning while skipping over the temporarily deleted channel.

Temporary deletions cannot be made until the radio stops on an active channel. P1 and P2 channels cannot be temporarily deleted.





OPTIONS

Type 99 Option

If the Type 99 Option is present, individual selective calling is possible. Press the programmed Flex key or use the menu and CHANNEL/SEL keys to enable the decoder option (Scan must be off). The LED display will show the option status: "T99 ON" or "T99 OFF". Press the button a second time to toggle the option status. The display will revert to normal channel display after 5 seconds. When a call is received, an alert tone will be heard and the display will flash, alternately "T99" and the channel selected. After receiving the call, press the CLR button to reset the decoder for the next call. The display will stop flashing.

If a call was received and the display is flashing, the CLR button must first be pushed before the T99 option may be disabled.

If the Horn Alert option is present with the Type 99 option, the radio can beep the vehicle horn when a Type 99 call is received. This option permits alerting persons out of the vehicle when a call is received. The Horn ON/OFF switch which is mounted on or near the radio is used to turn off the horn beep relay.

Public Address Option

If the Public Address Option is present, the radio may be used as a public address amplifier. Press the programmed Flex key (or use the menu) to enable the option (Scan must be off). The display will show "PUB ADDR". When the microphone PTT switch is keyed, the radio no longer transmits, but allows the microphone audio to feed the speaker. Adjust the VOLUME for desired level. Press the Flex key or use the CHANNEL/SEL a second time to disable the option. The display will revert to normal channel display. Changing channels or turning scan on will also turn the option off.

The public address microphone audio normally feeds an external speaker. An ON/OFF switch, which is mounted on or near the radio, allows selecting either the internal or external speaker for the receiver audio. The ON/OFF switch turns the receiver audio on or off to the external speaker. This switch still functions for the receiver audio with the PA option disabled.

AVAILABLE OPTIONS

The following equipment options are available for the MDX radio. Refer to your local radio supplier for ordering information.

MDX Conventional Optional Accessories

| Option | Description | Part Number |
|----------------------------|---|--------------------|
| PMAN1R | VHF/UHF roof mount antenna with TNC connector | 19B209568P6 |
| PMCC9M | External speaker cable, 18 inches | 19A149590P10 |
| PMCD1W | External speaker cable, 16 feet, requires option PMZM1K | 19A149590P10 |
| PMCD7W | 9' Power Cable | 19B801358P18 |
| PMCD7Z | External option cable, 2 feet | 19C851585P14 |
| PMCD9A | Power Cable, 18 feet | 19B801358P17 |
| PMLS1F | Speaker, MIL-STD-810C & D, 5" x 5", requires options PMCD7Z & PMCC9M | 19A149590P1 |
| PMMA1L | Desk mounting wedge for station use. | 19C851086P14 |
| PMMA1M | Spare mounting bracket | 19A138051G11 |
| PMMC3X | Desk microphone for station use. | 19C851086P14 |
| PMMC5K | DTMF microphone | 344A4611P1 |
| PMMK3D | Round pushbutton kit with commonly used legends. Includes button extraction tool. | 344A4254G2 |
| PMPD1A | Noise suppression kit | 19A148539G1 |
| PMPS1C | Power supply, 120/240V, 50/60 Hz, 13A. For station use. | 19A704647P2 |
| PMPS1D | Power supply, 240V AC, 50/60 Hz, 13A. For station use. | 19A704647P3 |
| PMSU1C | Alarm (horn) relay kit, requires option PMCD7Z | 19A705499P1 |
| PMZM1K | External speaker kit, requires option PMCD7Z, includes options PMLS1F and PMCC9M | |
| PROGRAMMING OPTIONS | | |
| TQ3370 | Programming Interface Module Kit | |
| TQ3372 | Programming Cable | |
| TQ3346 | PC Radio Programmer | |

WARRANTY

- A. Ericsson GE Mobile Communications Inc. (hereinafter "Seller") warrants to the original purchaser for use (hereinafter "Buyer") that Equipment manufactured by Seller shall be free from defects in material, workmanship and title, and shall conform to its published specifications. With respect to any Equipment not manufactured by Seller (except for integral parts of Seller's Equipment to which the warranties set forth above shall apply). Seller gives no warranty, and only the warranty, if any, given by the manufacturer shall apply. Batteries are excluded from this warranty but are warranted under a separate Nickel-Cadmium Battery Warranty.
- B. Seller's obligations set forth in Paragraph C below shall apply only to failures to meet the above warranties (except as to title) occurring within the following periods of time from date of sale to the Buyer and are conditioned on Buyer's giving written notice to Seller within thirty (30) days of such occurrence:
1. for fuses, incandescent lamps, vacuum tubes and non-rechargeable batteries, operable on arrival only.
 2. for parts and accessories (except as noted in B.1) sold by Seller's Service Parts Operation, ninety (90) days.
 3. for all other Equipment of Seller's manufacture, one (1) year.
- C. If any Equipment fails to meet the foregoing warranties, Seller shall correct the failure at its option (i) by repairing any defective or damaged part or parts thereof, or (ii) by making available at Seller's factory any necessary repaired or replacement parts. Any repaired or replacement part furnished hereunder shall be warranted for the remainder of the warranty period of the Equipment in which it is installed. Where such failure cannot be corrected by Seller's reasonable efforts, the parties will negotiate an equitable adjustment in price. Labor to perform warranty service will be provided at no charge only for the Equipment covered under Paragraph B.3, and only during the first three (3) months following the date of sale to the Buyer. Thereafter, labor will be charged at prevailing rates. To be eligible for no-charge labor, service must be performed by an authorized General Electric Service Station or other Servicer approved for these purposes either at its place of business during normal business hours, for mobile or personal equipment, or at the Buyer's location, for fixed location equipment. Service on fixed location equipment more than thirty (30) miles from the Service Station or other approved Servicer's place of business will include a charge for transportation.
- D. Seller's obligations under Paragraph C shall not apply to any Equipment, or part thereof, which (i) has been modified or otherwise altered other than pursuant to Seller's written instructions or written approval or, (ii) is normally consumed in operation or, (iii) has a normal life inherently shorter than the warranty periods specified in Paragraph B, or (iv) is not properly stored, installed, used, maintained or repaired, or, (v) has been subjected to any other kind of misuse or detrimental exposure, or has been involved in an accident.
- E. The preceding paragraphs set forth the exclusive remedies for claims (except as to title) based upon defects in or nonconformity of the Equipment, whether the claim is in contract, warranty, tort (including negligence), strict liability or otherwise, and however instituted. Upon the expiration of the warranty period, all such liability shall terminate. The foregoing warranties are exclusive and in lieu of all other warranties, whether oral, written, expressed, implied or statutory. **NO IMPLIED OR STATUTORY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE SHALL APPLY. IN NO EVENT SHALL THE SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, SPECIAL, INDIRECT OR EXEMPLARY DAMAGES.**

This warranty applies only within the United States.
1-800-528-7711 (1-800-237-0138 in Virginia).

FREQUENTLY CALLED NUMBERS

MEMORY LOCATION NAME TELEPHONE NUMBER

- 01
- 02
- 03
- 04
- 05
- 06
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EMERGENCY NUMBERS

Police

State Police

Fire

Poison Control

Ambulance

Life Saving and Rescue Squad

OPERATING TIPS

The following conditions tend to reduce the effective range of two-way radios and should be avoided whenever possible.

Operating the radio in low areas of terrain or while under power lines or bridges.

Obstructions such as mountains or buildings between the vehicle sending and the system/person receiving the message.

In areas where transmission or reception is poor, some improvements may be obtained by insuring that the antenna is vertical (particularly if a glass mount antenna is used). Moving a few yards in another direction or moving to a higher elevation may also improve communications.



Ericsson GE Mobile Communications Inc.
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