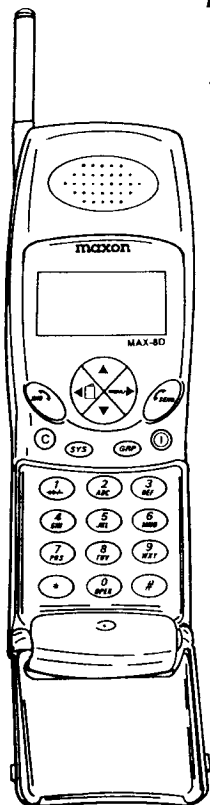

maxon®

Model MAX-8D

LTR® / ESAS®

TRUNKING PORTABLE



Operating
Instructions

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SAFETY INFORMATION

The Federal Communications Commission (FCC), with its action in General Docket 79-144, dated March 13, 1985, has adopted a safety standard for the human exposure to Radio Frequency (RF) electromagnetic energy emitted by FCC regulated equipment. Proper operation of this radio will result in user exposure far below the Occupational Safety and Health Act and Federal Communication Commission limits.

DO NOT hold the radio in such a manner that the antenna is close to, or touching, exposed parts of the body - especially the eyes or face - while the radio is transmitting.

DO NOT operate the radio near unshielded electrical blasting caps or in an explosive atmosphere, unless it is a type specifically designed and qualified for such use.

DO NOT operate the radio unless the antenna connector is secure and any open connectors are properly terminated.

DO NOT allow children to operate transmitter-equipped radio equipment.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE CONDITION THAT THIS DEVICE DOES NOT CAUSE HARMFUL INTERFERENCE.

MAX-8D FEATURES:

- **LTR/ESAS Operation**
- **Half duplex and full duplex operation**
- **Up to 100 System or Group selections**
- **Menu mode for user selections**
- **4-Line by 12 character alphanumeric LCD**
- **Phone and Trunked mode operations**
- **Scan function with automatic roaming**
- **Bottom-mounted accessory/option receptacle**
- **Select and de-select preprogramming System in the scan table**
- **60 Number, 31 character memory storage / recall phone book**
- **Indicators for signal strength, low battery**
- **Audible and supervisory tones**

QUICK REFERENCE GUIDE

Controls / Keypad / Display



PTT (Push-To-Talk) - used to place the transceiver in transmit mode (half-duplex operation)



On/Off key - used to power the transceiver

SYS

SYS (System) key - used to display the System menu

GRP

GRP (Group) key - used to display the Group menu

C

Clears the selected display or display character/number



SEND - used to send a selected interconnect call



END - used to end an interconnect call



MENU key - used to select display menus; entering a menu selection



Up/Down arrowhead buttons - used to scroll up or down the displayed menu tree



Left arrowhead w/ book - used to step back one displayed menu

**2
ABC**

"Phone key 2" - used to enter alpha characters or numeric data; also used for memory storage locations

Keys 0-9, * and #

DTMF Keypad - used for entering telephone numbers; entering and recalling messages into and from the phone book

Alphanumeric display

16 Characters (2 lines of 8 characters each) LCD with icons. Signal strength indicator (ESAS only) and low battery indicator, as well as radio modes (SCAN, CALL, DISP and TX) are shown.

Display layout is as follows:

SSSSSSSSRRRB
GGGGGGGGDDDD
DDDDDDDDDDDD
DDDDDDDDDDDD
s ROAM X X X X

S = System name
R = Signal quality (based on CELLNAME packets, ESAS only)
G = Group name D = Digit input field
s = ESAS Service icon; ROAM = Roam icon;
XXXX = icon for SCAN, CALL, DISP or TX

When using any feature which uses another display layout, (ie menu mode, phone book, etc.) a timer will abort that feature display and return to the originally selected display at approximately 10 seconds after the last keypress.

DESCRIPTION OF RADIO COMPONENTS

Antenna - can be raised or lowered for better reception

Speaker - provides audio to radio user

PTT (Push-To-Talk) - used to place the transceiver in transmit mode (half duplex operation)

External antenna jack - used to install an external antenna

Flip cover - used in full duplex mode. Opening the flip cover automatically reduces the listening audio to low level. Closing the flip cover will end the interconnect call and returns the audio to a higher level.


Battery latch - used to remove the battery from the transceiver unit


Accessory/Battery charging receptacle - used to attach accessories, or on-unit battery charging

Microphone - location where user speaks into the transceiver

MAX-8D OPERATION

Unit On/Off

To power on the unit, press the  key for approximately 1 second. A short beep will indicate that the unit is powered on. During that keypress, the lower line of the display will show the radio cell number and the User ID (UID) code.

To power the unit off, press the  key for approximately 1 second. The display will show the word "OFF". Release the key - the display will blank and the radio will be powered off.


MAX-8D OPERATION, Continued

System Selection

To select a System, press the SYS key - the display will show the current System selected.

SYS _____ nn
SSSSSSSS T
Scan on/off
Roam on/off

nn = System number
T = System type (E = ESAS; L = LTR)

To enable or disable System scan, press the  key to toggle the System scan status.

Use the up/down arrow keys to scroll through the programmed Systems. When the display shows the desired System, press the MENU key to select. After the selection is made, the display will revert to the normal display.

You can also press the SYS key, and enter the two digit System number. The display will show the selected System. If an invalid System number is entered, the display will not change.

A System search can also be performed by entering a search string. This is done by pressing a digit key and holding for approximately 1 second. The top line of the display will read:

SYS [X] nn X = the first character of the pressed key.

After approximately 1 second the "]" moves and new characters can be entered (up to 5). To initiate the search, press the up/down arrow keys. Note: the up arrow key will start the search from the bottom up; the down arrow key starts the search from the top down.

When using the up/down arrow keys, the MAX-8D will only display the Systems which contain the search string in their System names.

MAX-8D OPERATION, Continued

Group Selection

Same steps as System selection, except the display will show:

GRP _____ nn

GGGGGGGG X

RX 1D: iii

TX 1D: iii

X = Stands for D (Dispatch) or I (Interconnect)

G = Group number 00 should be used for
ESAS Systems

Volume Levels

Two adjustable volume levels are available with the MAX-8D; a high level and a low level. The position of the flip cover determines the volume level of the speaker. When the flip cover is closed, the high volume level is used (normally under dispatch call conditions). When the flip cover is open, the low level is used (normally to make phone calls).

To adjust the volume, use the up/down arrow keys. The status of the flip cover determines which volume level will be adjusted. During volume adjustment, the display will show:

SSSSSSRRRB

Volume

s ROAM

While the volume is being adjusted, the bar graph in the display will indicate the selected level. After volume has been adjusted, the display will disappear.

LTR CALLS

Placing LTR Dispatch Calls

To place an LTR dispatch call, select the desired System and dispatch Group, then press the PTT button. After the connection beep is heard, communication can begin. To receive a response, release the PTT.

LTR dispatch calls cannot be placed on an ESAS System when the selected Group is ESAS Group (Group 00).

Placing LTR Interconnect Calls

To place an LTR interconnect call, select an LTR interconnect Group, open the flip cover and press the SEND key. When the dial tone is heard, dialing may begin using the DTMF keypad. As an alternative, a number can be entered before the SEND key is pressed. With this method, the MAX-8D will perform the DTMF dialing when SEND is pressed.

Receiving LTR Dispatch Calls

When an LTR dispatch call is received, audio will be heard from the speaker. To respond to the call, press the PTT button, speak clearly into the radio microphone, and release the PTT.

If Group scan has been enabled, and a call is received from a Group other than the Group currently selected, you will have a pre-programmed time period to answer the dispatch call.

Receiving LTR Interconnect Calls

When an LTR interconnect call is received, a ringing tone will be heard over the radio speaker. To answer the interconnect call, open the flip cover, and begin speaking. To end the call, close the flip cover, or press END.

Note: If an interconnect call is received with the flip cover open, close and re-open the cover or press SEND.

Half Duplex Operation for Interconnect

Interconnect calls can be forced to operate in the half duplex mode. For half duplex operation, press the PTT button. Once this mode is entered, it is not possible to return to full duplex operation. The interconnect call can be terminated in the same manner as full duplex interconnect calls.

ESAS CALLS

Placing ESAS Extended Calls

The following types of extended calls can be placed while registered on an ESAS System: ESAS radio to ESAS radio, ESAS radio to LTR dispatch Group, ESAS radio to LTR Telco Group, ESAS radio to PSTN (Phone System Telephone Network).

To place an extended ESAS call, select an ESAS Group or a dispatch Group on the ESAS System. Open the flip cover and begin dialing the desired number or select a stored number from the phone book. To place the call, press the SEND key. To end the call, press the END key or close the flip cover.

The numbers required to place each type of call may differ, depending on the System the radio is checked into and the translation tables the System has programmed. Translation tables are mappings which take the dialed number and map it into an LTR ID code, ESAS ID code or phone number.

ESAS radio to ESAS radio and ESAS radio to LTR radio calls can be made by dialing directly without translation, as described below.

- Half duplex ESAS radio to ESAS radio: Dial *8ccc10uuuu.
*8 = indicates the call takes place in the half duplex mode; ccc = cell number of the ESAS radio being called; uuuu = UID (User ID) of the radio being called.
- Full duplex ESAS radio to ESAS radio: Dial *9ccc10uuuu.
*9 = indicates full duplex mode; ccc = cell number of the ESAS radio being called; uuuu = UID of the radio being called.
- ESAS radio to LTR dispatch ID or half duplex Telco ID. Dial *8ccc0hhiii.
*8 = indicates half duplex mode; ccc = cell number of the LTR radio being used; hh = home repeater of the LTR Group or radio; iii = ID code of the LTR Group or radio being called.

ESAS CALLS, Continued

Placing Extended ESAS Calls, Continued

ESAS radio to LTR full duplex Telco ID. Dial *9ccc0hhiii.

*9 = indicates full duplex mode; ccc = cell number of radio being called;

hh = home repeater of radio being called; iii = ID of called repeater.

Single site full duplex ESAS radio to LTR radio calls require two channels.

Receiving ESAS Extended Calls

To receive an ESAS extended call, the radio must be checked into an ESAS System.

When a half duplex ESAS extended call is received, the radio display will show the System and ESAS Group. The word "DISPATCH" will appear on the third line of the display. The word "DISPATCH" indicates the PTT must be pressed to answer the call. The extended call will remain in effect until the END key is pressed, the radio receives an EOC (end of call) from the System or the dwell time expires. If the dwell time expires, the radio will automatically send an EOC to the System.

When a full duplex ESAS extended call is received, a ringing tone will be heard through the speaker. The word "CALL" will appear on the third line of the display. Press SEND or open the flip cover to answer the call. To end the call, press the END key or close the flip cover. The call will also terminate if the radio receives an EOC from the System.

LAST NUMBER REDIAL

To recall the last number dialed, press "0" for approximately 1 second. To dial the recalled number, press SEND.

USING THE MENU SYSTEM

To enter the menu system press MENU. The display will show the basic menu - the root menu.

MENU



- 1 > Scan
- 2 Key beep
- 3 Backlight

The top line identifies the shown menu. When not in the root menu, the display will show the number of the shown menu.

The next lines show the menu item lines. Each menu item line consists of a digit and text, and represents a sub-menu or a selection.

Between the digit and the text, there will be either a blank, a selector (>) or a check mark (✓) character.

To select a menu item, use the up/down arrow keys until the selector is positioned at the desired menu item line - then press MENU to select. (A short cut method is to press the digit key which corresponds to the menu item line).

Pressing  will step back one menu level. In the room menu, this will exit the menu. The menu can also be exited by pressing the  key.

USING THE MENU SYSTEM, Continued

Scan Menu

The scan menu is used to turn on or off the scan mode (for those Systems which have their scan status on).

Scan _____ 1

- 1 ✓ On
- 2 Off

A short cut for setting scan **on**: MENU 1 1; for setting scan **off**: MENU 1 2

Key Beep Menu

The key beep menu is used to turn on or off the key beeps. When "on" keys 0 - 9, * and # will sound a DTMF tone when pressed. All other keys will sound a short beep. When off, no sound will occur with a key press.

Key Beep _____ 2

- 1 ✓ On
- 2 Off

A short cut for setting key beep tone **on**: MENU 2 1; for setting key beep tone **off**: MENU 2 2

Backlight Menu

The backlight menu is used to control the display and keypad backlight function. The light can be off, constantly on, or on for a selected number of seconds after a keypress or when the flip is opened.

Backlight _____ 3

- 1 ✓ Off
- 2 Constant
- 3 After key

When selecting "after key", the MAX-8D will prompt for the desired time, showing the current stored time.

After key _____ 33

Enter sec.:

05

Press digit keys to enter a new value, then press MENU to store.

USING THE PHONE BOOK

The phone book has a capacity of 60 locations. Each location contains 24 alphanumeric characters for the name, and 16 numeric characters for the number. The locations are numbered from 1 to 60. The basic features of the phone book are:

- Scrolling among used entries
- Look up by location *
- Searching the "name" with an entered search string
- Editing locations *
- Adding locations *
- Deleting locations *
- Undeleting locations *
- Wiping locations * * Accessed via the phone book menu.

The phone book menu is used in the same manner as the normal menu system. The phone book root menu:

Memory Menu

- 1 > Location
- 2 Edit
- 3 New
- 4 Delete
- 5 Undelete
- 6 Wipe
- 7 Options

Options Menu

Because the options menu influences the behavior of the phone book, the options section will be described first.

Options 7

- 1 > Allsearch
- 2 Auto Cap
- 3 Bookmark

USING THE PHONE BOOK, Continued

All Search Menu

The All Search option decides whether or not searching for the search string shall be carried out in all text for a location or only from the start of the name text.

Searching with All Search "off" is slightly faster than with the option "on".

All Search 71

- 1 On
- 2 ✓Off

The All Search option influences the search operation for System and Group selection.

Auto Cap Menu

Setting the Auto Cap option "on" displays names with initial capital letters. When "off", the names are displayed in all capital letters, ie. the name John Smith will appear as either:

John Smith (option "on")

or

JOHN SMITH (option "off")

Auto Cap 72

- 1 ✓On
- 2 Off


Bookmark Menu

The bookmark option decides if the location to be displayed when entering the phone book will be the last accessed location or a fixed location.

Bookmark 73

- 1 ✓Last
- 2 Current

BASIC PHONE BOOK OPERATION

To enter the phone book, press , the display will show:

```
Mem      xx
aaaaaaaaaaaa
aaaaaaaaaaaa
< d d d d d d d d d d
```

xx = the location number
aaa... = the name location
ddd... = the digit; "<" on the lower line indicates that the information contains more than 12 digits. Press and hold the END key to display.

Pressing the up/down arrow keys will scroll through the used locations.

To initiate a call from the phone book, press the SEND key when the desired location is shown.

To search a name, follow guidelines for System selection.

To display a specific location, press MENU 1 (or MENU MENU), the display will show:

```
Mem _____ - -
```

The two digit location numbers can now be entered:

```
Mem _____ x -
```

First digit replaces the first hyphen

```
Mem _____ x x
a a a a a a a a a a a a
a a a a a a a a a a a a
< d d d d d d d d d d
```

Second digit replaces the second hyphen and the location is recalled.

If the memory location is empty, the display will show:

```
Mem _____ x x
```

Empty

BASIC PHONE BOOK OPERATION, Continued

To enter a new location, press MENU 3. The display will show:

New _____ Number





Digits can be entered at this time. Press **C** to clear the last digit entered.

When the number is complete, press MENU to advance to the alpha name.
The display shows:

New _____ Name

Alpha characters can be entered at this time. Press the digit key to display its letters (press repeatedly until the desired letter appears in the screen). The cursor will advance to the next position 1 second after the key is released.

Press **C** to delete the character.

Press   to return to the number display. Pressing  or **MENU** 

will toggle between the number display and the name display.

When the name has been entered, press MENU. The MAX-8D will prompt for the number location. The MAX-8D will suggest the first vacant location, press MENU to store in that location. Otherwise enter a two digit location number and press MENU.

Editing a Location

To edit the current displayed location, press MENU 2 and follow the guidelines for entering a new location.

Deleting a Location

To delete the current display location, press MENU 4. The display will show "empty".

BASIC PHONE BOOK OPERATION, Continued

Undeleting a Location

To undelete the currently displayed location, press MENU 5. Undelete only applies if the display shows "empty".

Wiping a Location

To wipe the currently displayed location, press MENU 6. The display will blank and previous information entered cannot be recovered.

AUDIBLE AND SUPERVISORY TONES

Busy Tone

This tone is similar to the standard telephone busy tone and indicates that the radio System is currently "busy". The tone sounds for as long as the PTT is pressed.

Intercept Tone

This is a siren-like tone (alternating high and low tones) which indicates these error conditions:

- 1) When "RANGE" appears in the display along with the tone, an out-of-range condition is indicated. To complete a call, it may be required to move closer to the radio System. Once this tone sounds, no more access attempts are made until the PTT is released and rekeyed.
- 2) If this tone sounds after the transmitter has been on for an extended period and "TX TIME" is displayed, the transmitter has been disabled by the Time-Out-Timer feature.
- 3) This tone also indicates a low battery, and lasts for approximately 8 seconds. At this time, the battery should be recharged or replaced with a fresh battery.

Clear-To-Talk Tone

When the clear-to-talk feature is programmed, it emits a short tone which indicates when speaking can begin.

AUDIBLE AND SUPERVISORY TONES, Continued

Key Press Tone

This is a short tone which sounds to indicate a key is pressed. The tone can be turned on or off in the second level menu.

Available System Alert Tone

This tone sounds when a channel is available under the circumstance that all channels have been busy.

Phone Ring Alert Tone

This tone sounds when a phone call has arrived, sounding every other second continuously. The message "Incoming call" will be displayed.

FASS Alert Tone

This alert tone sounds when approaching an available area while scanning in the FASS mode. The "ROAM" icon will be displayed.

DISPLAY MESSAGES

Out of Range Indication (RANGE)

The word "RANGE" appears in the display when a System cannot be accessed, or the operator is too far from the System site.

Time-Out-Timer Indication (TX TIME)

The words "TX TIME" appear in the display, indicating that the transmit time-out-time has been exceeded.

No Available Channel Indication (BUSY)

The word "Busy" appears in the display, indicating that the channel is busy.

BATTERY CHARGING AND CARE



WARNING



DO NOT dispose of this battery pack in fire - it may explode, causing injury or death.

DO NOT replace the battery in hazardous atmosphere locations.

Your MAX-8D radio comes supplied with a 7.2 Volt, 1000 mAh Ni-Cad battery pack, which can be recharged from 500 to 1000 times before requiring replacement. The actual number of charge/recharge cycles will vary, depending on usage.

We recommend that the battery be charged from 14 to 16 hours on the first charge cycle, and then in accordance with the charger instructions thereafter. Although many battery manufacturers no longer specify that the battery be discharged completely (to the point where the unit no longer operates) and recharged once per month, Maxon recommends that this procedure be carried out, thus ensuring maximum battery life.

To remove the battery pack, press the battery latch and lift up on the battery until the end is clear of the MAX-8D housing. Pull the battery away from the radio. To install the battery, reverse the process.

If the battery is to be charged while attached to the radio, ensure the power is OFF before starting to charge. Connect the charging cable to the accessory jack located on the bottom of the radio. **Note:** While charging, the radio will be powered, and is operational.

Normal battery operation time is 8 hours. This may vary, depending upon how much the receiver audio is present and how much you transmit. The actual time may vary from day to day, depending upon operational requirements.

RECYCLING/DISPOSAL OF BATTERIES

The U.S. Environmental Protection Agency (EPA) classifies used Ni-Cd batteries as hazardous waste, unless certain exemptions apply.

The battery should be recycled at the end of its useful life. Under various state and local laws, such batteries must be recycled or disposed of properly and cannot be dumped in landfills or incinerators.

Maxon America, Inc. fully endorses and encourages the recycling of Ni-Cd batteries. A national program to collect and recycle used Ni-Cd batteries is being implemented by the Rechargeable Battery Recycling Corporation (RBRC). This program is being funded through the use of license fees paid by the battery and product manufacturers to place the RBRC™ seal on the batteries.

The following is a list of recycling facilities where the batteries can be shipped to be recycled. Contact these facilities for proper packing and shipping guidelines.

INMETCO

245 Portersville Road
Ellwood City, PA 16117
Tel.: 412/758-2802
Fax: 412/758-9311

Kinsbursky Brothers Inc.

1314 N. Lemon Street
Anaheim, CA 92801
Tel.: 714/738-8516 (1-800-548-8797)
Fax: 714/441-0857

EXTENDED OPERATIONS

When operating in "fringe areas" at some distance from the System, the other party may not receive your transmission clearly. Also, you may notice that the background noise will increase on received signals. Moving to higher ground or moving closer to the System will help alleviate these problems. If moving closer to the System is not practical, communication may be improved by moving away from shielding structures. If you are in a building interior, move closer to a window (preferably one generally in the direction of the System). At 800 MHz, the wave length is very short, sometimes moving a few inches to a few feet can make significant signal strength changes. Finding the best location can also be done while listening to the background noise while moving about - attempt to find a spot where the background noise is reduced to a minimum or eliminated entirely. This may make the difference from not being heard, to being heard loud and clear when operating in the fringe areas of your System coverage.

The fringe distance will vary greatly from plains areas, hilly terrain and mountain top sites.

Consult your Maxon Dealer regarding the specific operational range and coverage of the System(s) programmed into the MAX-8D radio.

FCC LICENSING

This unit may or may not require a specific FCC license to operate. The FCC requires all transmitters in the conventional and some Trunked Systems to be licensed by the Federal Communications Commission. Some Trunked operations now are exempt from individual licensing requirements but may be operated in a licensed System.

Consult your Maxon Dealer regarding specific licensing information, or contact the Federal Communications Commission. For more information regarding the FCC license application - Form 571 - call 888-CALLFCC (888-225-5322) or contact the FCC District office nearest you.

TRANSCEIVER SERVICE

There are no user serviceable components inside the Maxon MAX-8D radio. Altering the internal components or adjustments may result in illegal emissions, including off-frequency operation, or damage to the radio. If the radio fails to operate properly, refer to an Authorized Maxon Dealer for service.

WARRANTY STATEMENT

Maxon America, Inc. (herein "Maxon"), warrants the Product manufactured by it against defects in material and workmanship under normal use and service for a period of two (2) years from the date of delivery to the original end user, provided that the user has complied with the requirements stated herein. This warranty is not assignable or transferable. Maxon is not responsible for any ancillary equipment which is attached to or used in conjunction with this product.

Maxon shall have no obligation to make repairs or to cause replacement required which result from normal wear and tear or is necessitated in whole or in part by catastrophe, fault or negligence of the user, improper or unauthorized alterations, repairs to the Product, use of the Product in a manner for which it was not designed, or by causes external to the Product. This warranty is void if the serial number is altered, defaced or removed.

Maxon's sole obligation hereunder shall be to repair or replace the Product covered in the above warranty.

To receive warranty service, deliver or send the Product, transportation and insurance prepaid, to the place of purchase along with your proof of purchase. Alternatively, call 1-800-821-7848 for other locations or authorization to return the product directly to Maxon.

THE EXPRESS WARRANTIES CONTAINED HEREIN ARE IN LIEU OF ALL OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED OR STATUTORY, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

FOR ANY PRODUCT WHICH DOES NOT COMPLY WITH THE WARRANTY SPECIFIED, THE SOLE REMEDY WILL BE REPAIR OR REPLACEMENT. IN NO EVENT WILL MAXON BE LIABLE TO THE BUYER OR ITS CUSTOMERS FOR ANY DAMAGES, INCLUDING ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES, OR FOR THE LOSS OF PROFIT, REVENUE OR DATA ARISING OUT OF THE USE OF OR THE INABILITY TO USE THE PRODUCT.

This warranty is void for sales and deliveries outside of the United States.

ABOUT YOUR MAX-8D RADIO

The MAX-8D full duplex, half duplex LTR®/ESAS® Trunking Portable radio provides reliable Trunked communication in the 800 MHz range. Advanced dual format technology allows the radio to operate with an LTR Trunked System or an ESAS Trunked System.

WE URGE YOU TO THOROUGHLY READ THIS MANUAL BEFORE OPERATING THE RADIO.

The MAX-8D has been designed for ease of operation and there are many features available. Many of the functions described in this manual are dependent on the System in use. Your Maxon Dealer has programmed the MAX-8D radio to optimize your requirements.

Should you have any questions regarding the operation of the radio, please consult the Maxon Dealer from which you purchased the unit.

ABOUT MAXON AMERICA, INC.

Maxon America, Inc. designs and manufactures professional FM two-way radio equipment to serve a wide variety of communication needs. Maxon produces equipment for the Land Mobile Radio and Specialized Mobile Radio markets (business, industrial, government and public safety).

LTR is a registered tradename of E. F. Johnson
ESAS is a registered tradename of Uniden Corp.

maxon[®]

A World of Communications

Maxon America, Inc.

Business Radio Division

10828 NW Air World Drive

Kansas City, Missouri 64153

Phone: 816/891-6320, Ext. 399

Fax: 816/891-8815

U.S. P/N: 680-090-2003

Part No.: 937345