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SM-6000 *Enduro* series Operator's Manual

written by Gerald Happy

About Your SM-6000 *Enduro* series Radio

Maxon's SM-6000 *Enduro* series mobile radio's are compatible with LTR® trunked systems and Conventional radio system operation. The SM-6000 *Enduro* series is capable of up to 200 Systems/Channels/Groups. Operation and functions for Maxon's SM-6000 *Enduro* series radios are described in this manual.

We urge you to thoroughly read this manual before operating the radio.

Application of some functions described in this manual is determined by the system you use. Your Maxon Dealer will program your radio so that you have the greatest number of functions possible relative to your needs.

Should you have questions regarding the operation of the radio, please consult your Maxon Dealer.

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).

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Safety Information

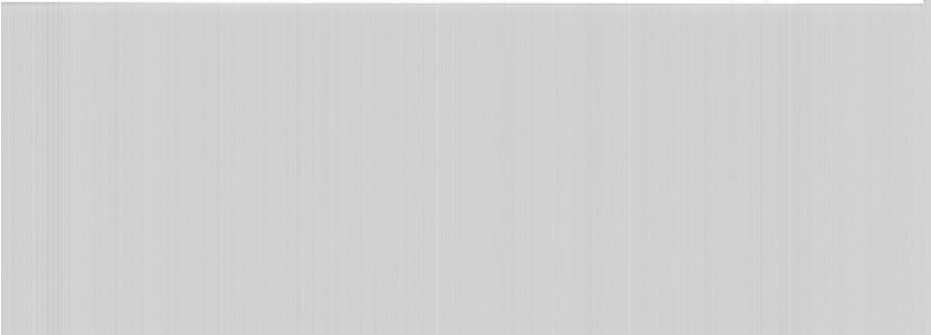
The Federal Communications Commission (FCC), with its action in General Docket 79-144, March 13, 1985, has adopted a safety standard for human exposure to Radio Frequency (RF) electromagnetic energy emitted by FCC regulated equipment. Maxon subscribes to the same safety standard for the use of its products.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

Warning - It is mandatory that radio installations in vehicles fueled by liquefied petroleum gas conform to the following standard: National Fire Protection Association standard NFPA 58 applies to radio installations in vehicles fueled by liquefied petroleum (LP) gas with LP gas container in the trunk or other sealed-off space within the interior of the vehicle. This standards requires that:

1. Any space containing radio equipment shall be isolated by a seal from the space in which the LP gas container and its fittings are located.
2. Remote (outside) filling connections shall be vented to the outside.

Warning - **DO NOT** operate the transmitter of a mobile radio when someone outside the vehicle is within two feet (0.6 meter) of the antenna.

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



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Caution - DO NOT operate the radio near electrical blasting caps or in an explosive atmosphere.

Caution - DO NOT operate the transmitter of any radio unless all RF connectors are secure and any open connectors are properly terminated.

All equipment must be properly grounded for safe operation.

All equipment should be serviced only by a qualified technician.

Note: This radio operates in FCC regulated frequency bands. All radios must be licensed by the FCC before use. Because this radio contains a transmitter, Federal law prohibits unauthorized use or adjustments of this radio.

This device complies with part 15 of the FCC rules. Operation is subject to the condition that this device does not cause harmful interference.

Unpacking Information

Remove and carefully inspect the contents of your package (s) for the following items:

- Radio
- Microphone
- DC Power Supply Cord
- Radio Mounting Bracket and Hardware
- Microphone Bracket and Hardware
- Operating Instructions

If any items are missing, please contact your Dealer or Maxon.

SM-6000 Enduro series Features

- LTR® Trunked radio operation
- Conventional radio operation
- Full featured 9 character display
- Wideband frequency separation
- Programmable output power high- power 10 to 40 W
- Programmable 12.5/25 KHz channel spacing
- Multiple-function five button keypad
- Programmable On/Off hook function
- Talk Around (Trunked Operation)
- Scanning
- Priority Scanning
- Look Back Channel
- Scan list editing
- CTCSS/DCS (Conventional operation)

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- Busy channel lockout
- Time-out timer

Installation Safeguards

Warning - DO NOT install the unit where it would interfere with the proper operation of automatic collision protection devices (air bags).

Warning - DO NOT install the unit where it would likely cause injury in case of accident.

- A. Select a location for the radio where you can easily see and reach all controls, including microphone.
- B. Using the radio mounting bracket as a template, mark the spots with a pencil where the bracket securing screws will be located.

Note - Before drilling holes in the vehicle, verify that there is nothing that could be damaged or get in the way by drilling and putting screws in this location. It is better to use existing passages in the dashboard, trunk, and floor for the routing cable, thus avoiding excessive drilling.

After drilling holes for the mounting bracket, attach bracket to surface using the two large Phillips head screws.

- C. Install the radio unit to the bracket using the two large black screw knobs, two spring lock washers, and two large flat washers.

Note - Depending on the location where the radio unit will be mounted, it may be more convenient to install the microphone bracket before installing the radio unit into place.

- D. Mount the microphone bracket to the most convenient side of the radio unit, using the two small Phillips head screws. There are two options for installing the microphone bracket, allowing the on-hook placement of the microphone from either the top or the front of the bracket.
- E. Connect the DC power supply cord to the radio. If necessary, the power supply cord may be connected before mounting the radio unit to the radio bracket.
- F. Push the modular microphone connector into the microphone jack (located in the front of the radio unit) until a click is heard.

Caution - Some electronic fuel injection, anti-skid braking systems, cruise controls, and vehicle alarms may be prone to interference from radio frequency energy or may malfunction due to a lack of protection from RF energy. If the vehicle contains such equipment, consult your dealer to get help determining whether the electronics equipment in the vehicle will operate properly when the radio is transmitting.

The radio is not intended for operation in a positive ground vehicle.

You must purchase an antenna for proper operation of the radio. Consult your dealer to determine which antennas are suitable.

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Description of Radio Components

- 1) On/Off - Volume Knob - Turns the radio On and/or Off, plus controls the audio volume.
- 2) Display - Display with icons and up to 9 alphanumeric characters in length.
- 3) Up/Down Arrow, Select Buttons - Press-and-Release to move up or down Systems/Groups/Channels. Press-and-hold to scroll.
- 4) Mode Select Button - Press-and-Release to toggle between Systems/Groups, Press-and-hold to return to your Home system.
- 5) Option Select Button - Used to enable/disable optional functions, press-and-release will enable/disable displayed function. Press-and-hold will enable optional functions - Talk-around (TA), Monitor, Horn and Lights, Call Missed, Edit Scan List, Backlight and Auxiliary functions.
- 6) Scan Select Button - Press-and-release will enable/disable Scan and Priority Scan functions. Press-and-hold will toggle between Scan and Priority Scan..
- 7) Busy/TX/BT Indicator - Tri-colored LED (Red, Green, Yellow and Off), indicates status of radio.
- 8) Speaker - ~~8 Ohm~~ 8 Ohm internal speaker.
- 9) Microphone Connector - RJ-41, 8 pin jack , used to plug in microphone and for radio programming.
- 10) External Auxiliary Connector - 3.5 mm jack used for connecting an external speaker. Internal speaker will be disabled when an external speaker is used.
- 11) DB-15 Connector - Option connector which supplies or receives audio levels. With an external or internal radio modem, capable of sending or receiving mobile data information.
- 12) Antenna Receptacle - Mini UHF with 50 ohm load.
- 13) DC Power Cord - Polarized plug: 13.8 VDC input for negative ground systems only.
- 14) Ignition sense - Allows vehicle ignition to power radio On and Off, located on DB-15 connector.
- 15) Mounting Bracket with Hardware - Used to support the radio.
- 16) Microphone Hanger- Used to hang the microphone, also used to enable/disable CTCSS/DCS squelch functions.

Display Icons and Indications

- Left Arrow
- Scan - Indicates radio is in scan mode
- S - Indicates included in scan list
- P - Indicates priority Scan Mode
- TA - Talk Around mode
- Musical Note - Indicate active beep tones
- Phone - Indicates interconnect phone mode
- Lock - Indicates DTMF keypad lock
- SYS - Indicates System mode
- Signal strength/Power Indicator
- Right Arrow

SM-6000 Enduro series Operations

Power On/Off - Volume:

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Turn the radio on by rotating the on/off - volume control clockwise until you hear a click and if enabled via Dealer programming the self test "alert" tone. Turn the radio off by rotating the control counter clockwise.

Trunked Mode Operation

Your Maxon SM-6000 *Enduro* series may be programmed to operate with both Trunked and Conventional modes. Each System can be individually programmed to operate in either the Trunked or Conventional Systems. There are only a few differences in their operation and these are detailed as follows.

Channel Monitoring:

While on a Trunked System, channel monitoring is performed automatically by the radio transceiver. In accordance with the FCC rules, while operating on a Conventional System the channel must be monitored prior to transmitting. In both Trunked and Conventional Systems, operation may vary from System to System. Your Maxon Dealer will be able to assist with particular operational parameters and procedures for the various Systems and functions.

System "Handshaking"

In a Trunked System, when the P-T-T is pressed on the microphone, a "Handshaking" routine occurs which establishes communications between the radio and System which has been selected. When the red TX indicator glows steadily, voice transmission may begin. If your Maxon Dealer has enabled the "Clear to Talk" tone option, the radio will emit a short tone signaling voice transmission may occur. In Conventional Systems, there is no System "handshaking" and voice transmission may start immediately.

Transmitting

- A. Rotate the On/Off - Volume control clockwise to turn the power on.
- B. Adjust On/Off - Volume control further clockwise to increase the volume level. Rotate counter clockwise to decrease volume level.
- C. Select the desired System and or Group using the Up/Down buttons located on the front of the unit.
- D. Insure the microphone is secure in the Microphone jack located on the front of the unit, press and hold the P-T-T lever on the side of the Microphone. (If "Busy", "Intercept" or "Ringback" tone is heard, refer to Audible Alert Tone description for more information).
- E. Listen for the "Clear to Talk" tone (or wait for the TX indicator to glow steady) and begin talking. Hold the microphone 1 or 2 inches from you mouth, speak clearly and distinctly into the microphone area of the front grille.
- F. Release the P-T-T lever as soon as the message is complete and listen for a response. The P-T-T lever must be pressed continuously while talking and released to listen.

Receiving

- A. Turn power on and set the volume level as previously described.
- B. Select the desired System and Group.
- C. When a message is received, the TX/Call indicator will glow green.
- D. Respond to message by removing the microphone form hook, press the P-T-T lever on the side of the microphone. Press the P-T-T continuously while talking and release to listen.

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Busy System Queuing

If enabled by your Dealer, Busy System Queuing will monitor the System for activity. Once the System becomes available the System will automatically be accessed and held for a period of time, determined by you dealer, allowing you to transmit on the System. An audible indication will sound along with a flashing yellow TX/Call indication when queuing has begun and again will sound when the System has been acquired. Busy System Queuing is available for both Trunked and Conventional System operation.

Multiple-Function Keypad Description

Your SM-6000 *Enduro* series has five multiple function keypad buttons located on the front panel. An audible beep, if enabled by your Dealer, is heard each time an option button is depressed.

- Up/Down Arrow Keys - These buttons will allow you to scroll Up or Down , depending upon which button is pressed, your pre-programmed Systems, Groups or Channels. Press-and-release will step once, a press-and-hold will scroll until button is released. All indications will be displayed.
- Mode Button - This button will allow you to return to your Home System and Group, or toggle between Group and System selections. Press-and-release will toggle between Group and System selection modes. A press-and-hold will tune to the Home System and Group. All indications will be displayed.
- OPT (Option) - This button will allow you to enable or disable optional functions. Press and release will enable or disable the current displayed function (Talk-around T/A, Monitor, Horn and lights, Call Missed, Auxiliary functions, Edit Scan List, Backlight). A press-and-hold will enable selection of optional functions. All indications will be displayed. Programming of this button is determined by your Dealer.
- Scan Button - This button will allow you to toggle between Scan and Priority Scan modes. Press-and-release will enable or disable the selected scan mode. A press-and-hold will activate normal Scan or Priority Scan functions. All indications will be displayed.

Option Button function descriptions

Talk Around

Talk Around mode, if enabled by your Dealer, allows you to talk from radio to radio bypassing the System. This is useful when your radios are out of range of any System. Talk Around can be enabled by pressing the OPT (option) button on the front panel and selecting Talk-Around. The icon will be shown in the display, indicating radio is active for Talk Around mode

Monitor

Monitor mode, if enabled by your Dealer, allows you open the radios squelch to listen for activity before attempting transmission on a conventional System or channel. Monitor also defeats CTCSS and DCS squelch functions.

Horn and Lights

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Horn and Lights mode, if enabled by your Dealer, will honk the horn or flash the lights of your vehicle, alerting of a call. Your vehicles horn or lights will be activated with a four (4) step alert, with the longest duration lasting 4 seconds. This pattern will be repeated three more times and stop. After the Horn and Lights function has expired the radio's LED will flash in a similar pattern, alternating between Green and Yellow, if Call Missed has been enabled. Turning the radio off, pressing the microphones P-T-T lever, removing microphone from hook, or pressing any button will end this function.

Call Missed

Call Missed mode, if enabled by your Dealer, will alert you a call was received and no response was issued. If scanning up to two minutes delay can be programmed by your dealer before scanning resumes. A continuous alert alternating Green and Yellow LED (similar to horn and lights) indicates missed call mode. Turning the radio off, pressing the microphones P-T-T lever, removing microphone from hook, or pressing any button will end this function.

Auxiliary Function

Auxiliary mode, enabled by your Dealer, will enable or disable external options which may have been added to your SM-6000 *Enduro* series by your Dealer.

Status Indicators and Audible Alert Tones

Your SM-6000 *Enduro* series has a sophisticated microprocessor control which provides a series of audible alert tones.

Upon initial power up, a quick beep indicates that the self-test of the microprocessor functions has been completed satisfactorily. A series of tones may be sounded with any of the following conditions:

- Attempt to transmit on a System/channel that is already in use when busy channel lockout has been programmed into the radio.*
- Call Received.*
- Clear-To-Talk/Transmit, indicates you may now begin speaking.*
- Transmit not available, indicates you are denied transmit on that System/channel.*
- Busy System Queuing, indicates your radio has been placed in the queuing mode and is attempting to access the System.
- Out of Range, indicates you are out of range of the System.
- Time-Out Timer, indicates you have exceeded the maximum transmission time.*
- Low battery condition

* Indicates a function that is initially programmed into the radio by your Dealer. The majority of LED indications and audible alerts can be enabled or disabled by your Dealer via programming.

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Status	Description	LED Color/Icon	Audible Tone
Normal	Power On - Ready	Red, Yellow, Green -Flashing	Single Beep
	Call Received	Yellow	Single Beep
	Correct Call	Green	Single Beep
	Transmit	Red	N/A
	Busy Channel	Yellow	N/A
	Transmit not Allowed	Yellow - Flashing	Busy Tone - Repeated
Trunked	Clear to Talk	Red	Single Beep
	Talk Around	Icon	N/A
	Out of Range	Red, Yellow - Flashing	Two Beeps- Repeated
Warning	Busy System Queuing	Yellow - Flashing @1 Hz	Single Beeps- every 10 seconds
	Busy System Accessed	Yellow - Flashing @1 Hz	Single Beeps - Repeated
	Queue Time-out	N/A	Single Tone - 2 seconds
	Time- Out -Timer	N/A	Single Tone
	Horn and Lights	Green, Yellow - Flashing	
Scanning	Call Missed	Green, Yellow - Flashing	
	In Scan Mode	Icon	N/A
	Entering Scan List Editing	Green - Flash four times	Four Beeps
	Exiting Scan List Editing	Red - Flash four times	Four Beeps
	In Scan List	Icon	Two Beeps
	Not in Scan List	No Icon	Two Beeps
Error	EEPROM Error	Red - Flashing	Single Beep - Repeated
	Out of Lock Error	Red - Flash Two times	Two Beeps - Repeated
	NVRAM Error	Red - Flash Five times	Five Beeps - Repeated
	Hardware Error	Red - Flash Three times	Three Beeps - Repeated

Scan Modes

Your SM-6000 *Enduro* series radio may be programmed for one or more scan modes depending upon your Dealer programming.

LTR Manual Group Scan

To enable LTR manual group scan, press the scan button on the front panel of the radio. In this scan mode the radio will scan all LTR receive Group ID's. Upon receiving the correct ID the radio will allow transmission on that Group ID until scanning resumes.

LTR Auto Group Scan

Operation is the same as for LTR Manual Group Scan with the exception you do not need to press the scan button. This function is pre-programmed by your Dealer.

System Scan

To enable System Scan, press the scan button on the front panel. During System scan the radio will scan all Systems in the System scan list programmed by your Dealer. Group Scan, LTR or Conventional, is automatically enabled for System scan.

If scanning modes are enabled be sure to respond before scanning resumes, if you do not, another call may be received and the selected System and Group may have to be changed. Scanning is indicated by Scan icon. Refer to "Scan Modes" for more descriptive information.

Transpond Mode

If Transpond has been enabled by your Dealer, your radio will automatically send (transpond) an acknowledgment to the System indicating that your radio has received a transmission. Transpond is a Dealer programmable feature.

Conventional Mode Operation

Your Maxon SM-6000 *Enduro* series may be programmed to operate in Conventional modes. Conventional mode may or may not require a Conventional repeater System. Radio to radio communications can also be accomplished in Conventional operation. How the Conventional mode is programmed is determined by your Dealer.

Transmitting

- A. Rotate the On/Off - Volume control clockwise to turn the power on.
- B. Adjust On/Off - Volume control further clockwise to increase the volume level. Rotate counter clockwise to decrease volume level.
- C. Select the desired Conventional channel using the Up/Down buttons located on the front panel of the radio.
- D. In a Conventional System it is necessary to monitor the channel for activity before a transmission. Monitor the channel by pressing the OPT (option) button located on the front panel and selecting monitor, once selected pressing OPT button once will begin monitor function, pressing OPT a second time will turn off monitor function. Monitoring of the channel can also be accomplished by observing the TX/Call indicator for a solid yellow or green color. If solid yellow or green is observed, you must wait for the indication to leave before a transmission can be made.
- E. Press and hold the microphone P-T-T lever on the side of the microphone, hold the microphone 1 or 2 inches from your mouth, speak clearly and distinctly into the microphone area of the front grille.
- F. Release the P-T-T lever as soon as the message is complete and listen for a response. The P-T-T lever must be pressed continuously while talking and released to listen.

Receiving

- A. Turn power on and set the volume level as previously described.
- B. Select the desired channel.
- C. When a message is received, the TX/Call indicator will glow solid yellow or green depending if CTCSS or DCS tone has been programmed.
- D. Respond to message by pressing the P-T-T lever on the side of the microphone. Press the P-T-T continuously while talking and release to listen.

If scanning modes are enabled be sure to respond before scanning resumes, if you do not, another call may be received and the selected channel may have to be changed. Scanning is indicated by a Scan icon. Refer to "Scan Modes" for more descriptive information.

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Conventional Group Scan

To enable Conventional Group Scan, press the scan button on the front panel. Conventional Group Scan performs in the same manner as LTR manual group scan, with the exception that ID codes are not required. Only those groups enabled in the group scan list will be scanned.

Editing Group Scan List

You as a user can edit your pre-programmed group scan list by adding or deleting groups from the group scan list for a given System. To activate Scan list editing, press-and release the OPT button (once configured to control Scan List Editing) on the front panel of the radio. Upon entering Edit Scan List function, the LED located on front panel will flash Green four times, an audible beep will also be heard in sequence with each LED flash. Press the up or down arrow buttons to move through the available groups. Press-and-release the scan button to include/exclude the displayed group from the scan list, the "S" icon will also be displayed for those groups already present in the list or when added to the scan list. Exiting the Edit Scan List function, the LED will flash Red four times, an audible beep will be heard in sequence with each LED flash.

Priority groups cannot not be edited from the scan list.

Priority Look Back

If programmed by your Dealer, when a Group/channel other than the programmed priority channel is selected, your SM-6000 *Enduro* series will Look Back to the programmed priority channel.

Conventional Scanning

Your SM-6000 *Enduro* series can be programmed for one of six different scan types, determined by your Dealer. To enable Scan, press-and-release the scan button on the front panel of the radio. Only those channel groups pre-programmed by your Dealer will be in the scan list.

Talk Back Scan

RX: The radio only receives calls from its selected channel and channels in the selected Systems scan list.

TX: The radio will transmit on the selected channel if a call is not received. If a scanned call is received, the radio will transmit on that scanned channel until scanning resumes.

RX only/TX disable

RX: The radio will only receive calls on the selected channel and channels in the selected System's scan list.

TX: No transmissions are allowed. If transmission is attempted, an alert will be sounded.

Priority TX Scan

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RX: The radio will receive calls from its selected channel and channels in the selected channels scan list.

TX: All transmissions will be made on the programmed priority channel, no matter which Group/Channel is selected. Transmissions can also be made only on those scanned calls which have been received before scanning resumes.

Priority only TX

RX: The radio will receive calls from its selected channel and channels in the selected System's scan list.

TX: All transmissions will be made on the programmed priority channel, no matter which Group/Channel is selected. No Transmissions will be allowed on scanned channels.

Priority Look Back Scan

RX: The radio will receive calls on its selected and priority channel. While the radio is receiving a call on its selected channel, it will look for a call from the programmed priority channel. If a call is detected on the priority channel, the radio will leave the current call and receive the priority call. After the priority call has ended, the radio remains on the priority channel for the scan hang time. When look-back time expires, the radio will go back to the selected channel and resume priority look-back operation.

TX: The radio will only transmit on the selected or scanned to channel. While transmitting all receive operations will be disabled. Transmission will be allowed on the priority channel only after receiving a priority call.

Vacant Channel Scan

RX: Normal conventional operation on the selected channel occurs.

TX: The radio will step through the scan list and transmit on the first non-busy channel.

Nuisance Delete

If a channel contained in the scan list is constantly being scanned because of unwanted "chatter", you can temporarily delete the channel from your list by pressing the monitor button. Nuisance delete can only be initiated when scan is active and the radio is receiving the call on the channel to be deleted. Nuisance delete will be deactivated for all channels by turning scan off.

Licensing and Service Information

FCC Licensing

The Federal Communications Commission requires the operator of this radio be properly licensed under the application Part and/or Parts of the FCC Rules and Regulations.

Consult with your Maxon Dealer, or contact the nearest FCC field office for information about obtaining a license.

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Service

Do not tamper with internal adjustments. Damage to the equipment and/or improper operation may result. There are no serviceable items inside the radio.

It is recommended that you return your radio to a qualified Maxon Dealer for any service or repairs.

Software Copyrights

The Maxon products described in his operating instruction manual may include copyrighted Maxon software programs stored in semi-conductor memories or other media. Laws in the United States and other countries preserve for Maxon certain exclusive rights for copyrighted software programs, including the exclusive right to copy or reproduce in any form the copyrighted software program. Accordingly, the copyrighted Maxon software programs contained in the Maxon products described in this operating instruction manual may not be ? Maxon. Furthermore, the purchase of Maxon products shall not be deemed to grant either directly or by implication, estoppel, or otherwise, any license under the copyrights, patents or patent applications of Maxon, except for normal non-exclusive royalty free license to use that arises by operation of law in the sale of a product.

Maintenance

Your SM-6000 *Enduro* series radio is designed to be maintenance free. To keep your radio in good working condition:

Clean external surfaces with a clean cloth dampened in a solution of dishwasher detergent diluted in water. Apply the solution sparingly to avoid any moisture leaking into cracks and crevices. Do not submerge the radio. Use a non-metallic brush to dislodge stubborn particles, if necessary. Dry the surface thoroughly with a soft, lint free cloth.

DO NOT use solvents or spirits for cleaning - they may permanently damage the housing.

Limited Warranty

Maxon America, Inc. ("Maxon") warrants the Maxon 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 or used in connection with this product.

Maxon shall have no obligation to make repairs or to cause replacement required which result from normal wear and tear or 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.

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