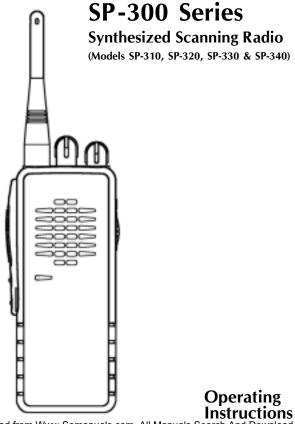
maxon



About Your SP-300 Series Radio

Maxon's SP-300 Series radios feature 4/16 channel operation with superior performance and reliability. Operation and functions for Maxon's SP-300 Series radios are described in this manual.

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

Application of some of the 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 / Topaz3

Maxon is a world respected name in professional FM two-way radio equipment operating in the UHF VHF and 800 MHz frequencies; personal two-way communication devices, including the popular FRS (Family Radio Service) and GMRS radios; and a variety of wireless communication products(two-way voice messaging handsets, Wireless Local Loop terminals, etc.)

Topaz3 is the exclusive supplier of Maxon products to North America. For more specific product information, visit our website: www.topaz3.com

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Safety Information

The Federal Communications Commission (FCC), with its action in General Docket 93-62, November 7, 1997, 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 (OSHA) and Federal Communications Commission limits.

- WARNING DO NOT hold the radio in such a manner that the antenna is next to, or touching, exposed parts of the body, especially the face or eyes, while transmitting.
- **WARNING DO NOT** allow children to operate transmitterequipped radio equipment.
- **CAUTION DO NOT** operate the radio near unshielded electrical blasting caps or in an explosive atmosphere unless it is a type especially designed and qualified for such use.
- **CAUTION DO NOT** press and hold the transmit switch (P-T-T) when not actually wishing to transmit.

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.

Unpacking Information

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

Radio Battery Pack Antenna Spring Belt Clip Operating Instructions

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

SP-300 Series Features

- Wideband frequency separation
- 1/5 Watts programmable output power
- Programmable 12.5/25 kHz channel spacing
- Channel scan
- Priority channel scan
- Look back channel
- CTCSS/DCS tone signalling
- Busy channel lockout
- Time-out timer

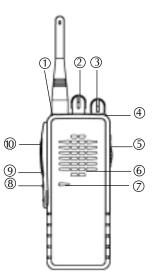
Description of Radio Components

Front view:

- 1) Antenna Receptacle
- 2) Channel Selector Knob
- 3) On/Off Volume Control
- 4) Busy/TX/BT Indicator (top plate of radio)
- 5) Accessory Connector
- 6) Speaker
- 7) Microphone
- 8) Option Button
- 9) Monitor Button
- 10) Push-To-Talk (PTT) Button

Not shown

Belt Clip Battery Latch Battery Battery Charge Contacts



Antenna Installation

Attach the antenna by turning clockwise into the antenna receptacle on top of the radio.

Installing and Removing the Battery Pack

Hold the radio face down in your hand. **To attach the battery pack**, pick up the pack by the sides and hold it so that the latch is facing upward. Place the bottom of the battery pack into the base of the radio at approximately a 45° angle. Gently push battery into the radio back until the battery latch snaps firmly into place.

Remove the battery pack by holding the radio face down in your hand. Press down and hold the battery latch. Holding the latch with your finger gently pull battery out and away from radio.

Attaching and Removing the Belt Clip

The belt clip attaches to the radio's battery pack. **To attach the belt clip**, hold the clip and slide it into the recessed area at the top of the pack. A click will verify the clip is securely positioned. **To remove the clip**, press and hold the release tab toward the clip while gently pulling the belt clip assembly off the radio.

Battery Charging and Care

To ensure maximum performance from your radio, the battery pack must be fully charged before initial use. For continued performance, periodically discharge the battery completely and then fully recharge the pack. Proper care and charging will extend life of your battery pack.

Maxon offers two chargers for use with the SP-300 Series radio. Each model is sold separately and is available through your original purchasing Dealer.

The QPA-1135 Pedestal Charger provides a slow overnight charge of 12-16 hours. The charger has a single well which charges a radio with battery attached.

The QPA-1130 Desktop Charger provides quick charging in 1.5 hours and normal "slow" charging. The charger has two wells, one will accommodate a radio with battery attached; the other is for a battery removed from the radio.

Refer to the instructions accompanying each of these Maxon chargers for more information.

SP-300 Series Operation

Power On-Volume

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

Transmit

CAUTION OPERATION OF THE TRANSMITTER WITHOUT A PROPER ANTENNA INSTALLED MAY RESULT IN PERMANENT DAMAGE TO THE RADIO

1) Press the monitor button to monitor the channel for activity. To avoid interrupting another user, make sure the channel is clear before you begin transmitting.

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NOTE: Federal Communications Commission Rules and Regulations require that you monitor a channel for activity before transmitting.

NOTE: The tri-color LED located on the top panel can help with channel monitoring. It will glow amber if RF activity is present; or green if the transmission has a CTCSS or DCS tone that matches a tone programmed for receive in your radio. When this LED is not illuminated, the radio is indicating a "clear" channel.

2) When the channel is clear, hold the radio upright with the antenna vertical and the front microphone area about 2-3 inches from the mouth, keeping the antenna away from the face and eyes. Press and hold the P-T-T bar on the side of the radio, and speak slowly and clearly into the microphone area.

NOTE: The LED will glow red when transmitting. This indicator should be on continuously while the P-T-T bar is being pressed and the radio is transmitting. Should the red LED be "flashing", the battery needs to be recharged and transmission will cease. Recharge the battery before attempting more than one transmission.

Receive

When you have finished transmitting, release the P-T-T bar to receive.

Power Off

When finished transmitting, receiving, monitoring, etc., turn the radio off by rotating the on/off-volume control fully counterclockwise, to the detent position.

Status Indicators and Audible Alert Tones

Your SP-300 Series has a sophisticated microprocessor control which provides a series of audible alert tones.

Upon initial power up, a quick melody 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 channel set for receive only
- Attempt to transmit on a channel that is already in use when busy channel lockout has been programmed into the radio *
- Transmitting time has exceeded time-out timer programmed length *
- Low battery condition
- Selecting a channel with no programmed frequency
- * Indicates a function that is initially programmed into the radio by your Maxon Dealer.

NOTE: All audible tones can be programmed off for silent operation.

STATUS	DESCRIPTION	LED COLOR	AUDIBLE TONE
NORMAL	Power On - Ready	N/A	Melody
	Busy	Amber	N/A
	Correct Call	Green	N/A
	Transmit	Red	N/A
	Busy Lock	Amber, Flashing	Single Tone
IN SCAN	Scan is initiated	Green, Flashing	N/A
WARNING	Time-Out Timer	N/A	Single Tone
	Battery Low	Red, Flashing	Four Tone, Repeated
ERROR	EEPROM Error	Red, Flashing	Single Tone, Repeated
	PLL Error	Red, Flashing	Double Tone, Repeated
	Filtering Error	Red, Flashing	Three Tone, Repeated

Scan Modes

Scanning is a Dealer programmable feature that allows you to monitor a number of channels. Your Dealer will help you define a channel "scan list" to be programmed into a scan channel (any channel, 1-4 on models SP-310 or 320) or (any channel, 1-16 on models SP-330 or SP-340). Once that channel location is selected, scan is initiated.

Normal Channel Scan

Once the scan list is programmed you can initiate scan. Simply move the channel selector knob to the scan channel position and the radio will start to scan. The top panel LED can be programmed to flash green as the radio is scanning.

If a conversation is detected on any of the channels in the scan list, the radio will stop on that channel and you will be able to hear the conversation. If programmed for normal scan TX you will be able to transmit on that active channel during the programmable scan delay time. The scan delay time is the amount of time the radio will stay on that channel once activity has ceased (Dealer programmable, 4-7 seconds is typical). The radio will resume scanning once the scan delay time has expired. Scanning will continue until the channel is changed.

Priority Channel Scan

A single channel may be programmed as the "Priority" channel. The radio will constantly monitor this channel while scanning and when the radio has stopped on an active channel. If a call is detected on the "Priority" channel, the radio will automatically move to, and remain on, the "Priority" channel for as long as the priority conversation takes place. "Priority" channel activity takes precedence over all other conversations.

NOTE: "Priority" channel scan and "look back" require that the radio leave the active channel for a fraction of a second (at regular intervals) to check the priority channel for a message. Depending upon how the radio is programmed (scan speed, etc.) this may or may not be noticeable as "breaks" on the active channel for that same fraction of a second.

Other Scanning Features

- Look Back: Any channel, when not in the scan mode, can be programmed to "look back" at the "Priority" channel. This feature is ideal for those who do not need scan as defined above, but want to make sure that they never miss a call on the "Priority" channel if another channel has been selected. Once a "look back" channel has been selected, the radio will periodically "look back" at the "Priority" channel. If activity is detected on the "Priority" channel, the radio will move to that channel for as long as it remains active.
- Scan Channel Delete: To temporarily delete a channel from the scan list, simply press the monitor button while scanning and stop on the channel to be deleted. This will remove that channel from the scan list until the channel is changed or the radio's power is reset. When power is restored or the scan list channel position is again selected, the original Dealer programmed scan list will be activated.
- CTCSS/DCS Scanning: The SP-300 Series can be programmed by your Dealer to scan for tone. This will help block out unwanted calls.
- Normal Scan TX: Allows a transmission only after a call is received, depending on the programmed scan delay time. After the scan resumes, and a transmission is made, the radio will sound an alarm (two beeps) and will not allow a transmission.
- **Priority Scan TX:** Allows a transmission after a call is received depending on programmed scan delay time. The transmission will be made on the channel that the call was received. After the scan resumes, if a transmission is made, the radio will transmit on the programmed priority channel.
- **Priority Only TX:** Allows a transmission on the priority channel when scanning and not stopped on an active channel. It can also be programmed to always transmit on the priority channel if scanning or stopped on an active channel.
- **Receive Only Scan:** This allows only reception. If a transmission is made at any time, the radio will sound an alarm (two beeps) and will not allow the transmission.

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Licensing and Service Information

FCC Licensing

The Federal Communications Commission requires that the operator of this radio be properly licensed under the applicable 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.

Service

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

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

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 or local laws, such batteries must be recycled or disposed of properly and cannot be dumped in landfills or incinerators.

A national program to collect and recycle used Ni-Cd batteries is being implemented by the Rechargeable Battery Recycling Corporation (RBRC $^{\text{M}}$).

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

INMETCO

245 Portersville Road Ellwood City, PA 16117 TEL: (724) 758-2800 FAX: (724) 758-2842

Kinsbursky Brothers Inc.

1314 N. Lemon Street Anaheim, CA. 92801 TEL: (714) 738-8516 (800) 548-8797 FAX: (714) 441-0857

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Software Copyrights

The Maxon product(s) described in these operating instructions may include copyrighted Maxon software programs stored in semiconductor 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 copied or reproduced without the express written permission of 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 SP-300 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.

• Clean the battery contacts on the back of the radio with a lint free cloth to remove dirt, grease, or other foreign material that may impede good electrical contact.

Limited Warranty

Topaz3 warrants the Products and included accessories sold herein will be free from defects in workmanship or materials under normal use and service for a period of two (2) years from the date of purchase by the original end user, provided that the buyer has complied with the requirements stated herein. This warranty is offered to the initial end user and is not assignable or transferable. Topaz3 is not responsible for any ancillary equipment which is attached to or used in cojunction with Maxon products.

If the product fails to function under normal use because of manufacturing defect(s) or workmanship during the two (2) year period following the date of purchase, it will be replaced or repaired at Topaz3's option at no charge when returned to the place of purchase. The defective unit must be accompanied by proof of the date of purchase in the form of a sales receipt.

The sole obligation of Topaz3 hereunder shall be to replace or repair the Product covered in this Warranty. Replacement, at Topaz3's option, may include a similar orhigher-featured product. Repair may include the replacement of parts or boards with functionally equivalent reconditioned or new parts or boards. Replaced parts, accessories, batteies, or boards are warranted for the balance of the original time period. All replaced parts, accessories, batteries or boards become the property of Topaz3.

Topaz3 shall have no obligation to make repairs or to cause replacement required through normal wear and tear or is necessitated in whole or in part by catastrophe, fault or negligence of the user, improper or unauthorized alterations or 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.

The user is responsible for the payment of any charges or expenses incurred for the removal of the defective product from the vehicle or site of its use, for the transportation of the product to the place of repair, for the return of the repaired / replaced product to the site of its use and for the reinstallation of the product.

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