MOBILE RADIO

MOBILE SALES INFORMATION MANUAL

product news

SFM: P7604

February 13, 1976

TO: All Field Sales Personnel

SUBJECT: INTRODUCING THE NEW GENERAL ELECTRIC "EXECUTIVE PAGER"

The new General Electric Executive Pager is available in the 150.8 - 174 MHz and 450-470 MHz Frequency Ranges and is designed to serve the Industrial and Hospital Markets. Some of its outstanding features are:

- RUGGED CONSTRUCTION - The circuitry is shock mounted in a tough LEXAN® housing. The specification for Shock stability is double that required by EIA.
- SOLID STATE VERSATONE NETWORKS - No reeds.
- COMPACT AND ATTRACTIVE STYLED - It is easily carried in your pocket or on your belt. The case colors are either black or white.
- EXTENDED BATTERY LIFE - all units are equipped with a battery saving circuit.
- PRICES START AT $290.00 (See attached Price Pages for details).

FIGURE 1 - EXTERNAL VIEW OF PAGER

EXTERNAL CONSTRUCTION (See Figure 1)

The LEXAN® case is molded in two sections and solidly held together with four captive screws and threaded metal inserts. Its textured finish is offered in two colors - black as standard and white as an option.

The speaker grille slopes inward toward the top and has "Z" slot openings. This design directs sound upward to maximize audio volume and quality when the unit is carried in a pocket or on a belt.

Operating controls are conveniently located on top of the unit. The rotary ON/OFF-Volume control is knurled for easy adjustment. It is marked with OFF-L-M-H, for low, medium and high audio output. This allows the user to tell at a glance whether the receiver is on or off and the selected audio level. A "bar" activated control provides tone control (push-to-reset/push-to-listen/push-to-silence). This control has two switches connected in parallel so it will operate reliably when the bar is pushed near either end or in the center. The switch contacts are gold plated for long life and the mechanical design helps prevent switch damage by a heavy hand or if the unit is inadvertently dropped on the control surface.

An Option Jack and unit identification window are built in the side of the unit. The Option Jack permits use of audio accessories such as the earpiece or lapel speaker.

A spring loaded carrying clip with rounded edges and a rubber insert is mounted on the back of the pager. This clip securely grips pockets without damage to the material or fits over belts up to 2 inches wide. Should the carrying clip become damaged, it can be easily replaced by removing the hinge pin, installing a new clip and re-inserting the pin.

INTERNAL CONSTRUCTION (See Figure 2)

The receiver, including the controls and the earpiece jack, is on a single printed wiring board (PWB). Only the battery is separate from the receiver. The receiver board is "cradled" in vinyl shock absorbing material. When subjected to a shock, this material compresses and substantially reduces the shock to the receiver board.

These new pagers use Versatone Type 99 decoders with demonstrated performance and reliability in other unit applications. Both Individual Call and Individual/Group Call decoders are available.

Crystals are mounted to the PWB with bowed leads and are surrounded by shock absorbent vinyl to prevent contact with adjacent components in case of severe shock.

The speaker is mounted to the receiver assembly with a rubber retaining socket to isolate its mass from the electronic portion of the receiver. (See Figure 3).

The battery compartment is located in the bottom of the unit, so its mass is also isolated from the electronics. Clip contacts from the battery compartment make reliable contact with the receiver PWB voltage pads which are gold plated.

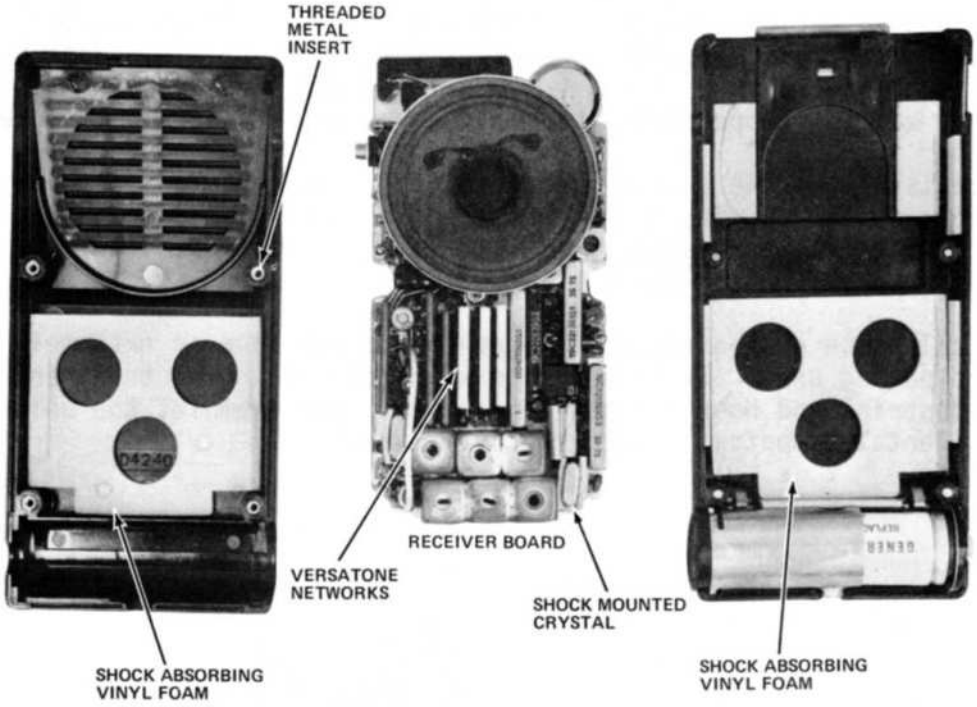

FIGURE 2 - INTERNAL CONSTRUCTION

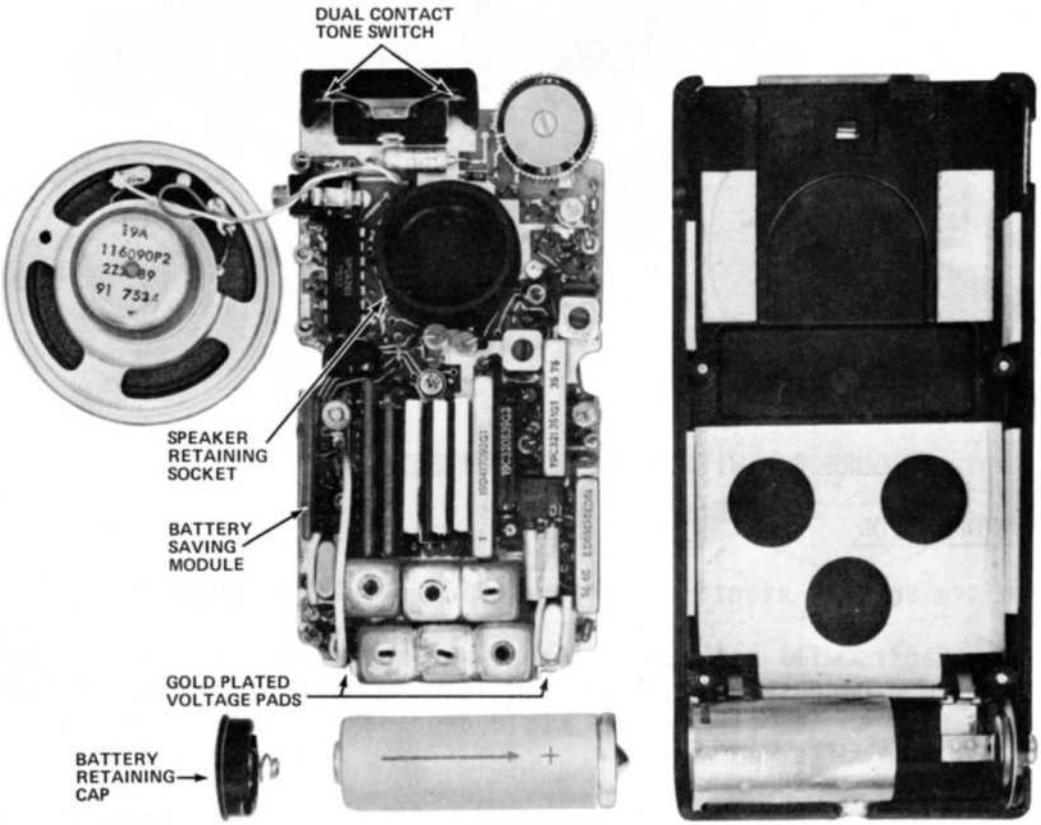

FIGURE 3 - SPEAKER AND BATTERY REMOVED

The battery can be replaced without opening the case and exposing the electronic circuitry. A round cap engages the inside of one end of the battery compartment with a 45 degree turn. The cap surface has a molded-in bar that can be easily gripped with the fingers for quick removal and insertion.

Contacts within the battery compartment are designed so that only the rechargeable nickel-cadmium battery will charge when placed in the charger. Neither the alkaline nor mercury non-rechargeable batteries will make contact with the external charging contacts.

Add all these design features together and you have an extremely reliable and rugged paging unit. It is built to withstand the rough treatment encountered in the Industrial and Hospital paging service. For example, the unit will withstand accidental dropping illustrated by Figure 4.

FIGURE 4 - WITHSTANDS ROUGH TREATMENT

GENERAL INFORMATION

These are several significant items which should be noted.

The new Pagers will not have external antenna/connection pins. These were not provided because to do so, would require the receiver board to be mechanically tied to the case. This would degrade the shock resistance capability of the units.

Battery life has been greatly improved. All pagers will be equipped with a battery saving circuit. Refer to the Specification Sheets ECR-2124 and ECR-2125 for battery life information.

Versatone networks can be ordered on GE Type 99 tone frequencies or on Motorola Quick Call II frequencies. However, Quick Call II tones will be limited to Individual Call only.

The individual call models use two Versatone networks while the individual plus group call models use three Versatone networks. Formatting and tone selection for Type 99 tones will be the same as used for the "PVO" Series pagers.

Chargers for the new Executive Pager include a 391L1B1X Desk Charger and Option 5408 Multi-Charger. Both are designed to recharge the Nickel-Cadimum battery in 14 hours. The Desk Charger has one receptacle for a complete Pager and one battery receptacle. This charger is like the Deluxe Desk Charger for "PVO" Series Pagers except it doesn't have an external antenna connector. The Multi-Charger is the same as used with the "PVO" Pagers. It has 10 pager receptacles and 5 battery receptacles.

New models for both Desk and Multi-Chargers will be available at a later date.

ORDERING INFORMATION

Start selling the new pagers now! The shipping estimate for units and associated options and accessories is approximately 10 weeks.

The nomenclature and price pages are attached. Note that operational modes available are identical to those provided by the "PVO" Series Pager with two exceptions.

1. "Voice Only" units are not listed but will be available late in the 2nd quarter of this year.

2. Automatic Reset is available for units with Individual and Group Call capability (5th digit J).

This SFM and the attached Specification Sheets give you the complete story. These pagers are products which you can introduce to your customers with pride and confidence. So do it now and don't forget to ask for the order.

R. G. Elgin
Marketing Communications

ENCLOSURES: Nomenclature Page 40-C
Price Pages 42-1 and -2
Specification Sheets ECR-2124 and ECR-2125

Executive Pager

ECR-2124

GE MOBILE RADIO

TONE AND VOICE OR TONE ONLY MODELS

FM POCKET RECEIVER 150.8-174 MHz

(OPTIONAL)

HOSPITAL/INDUSTRIAL PAGING

- **RUGGEDLY CONSTRUCTED – Electronics shock-mounted in LEXAN® housing**
- **SOLID STATE VERSATONE NETWORKS – For reliable tone signalling**
- **EXTENSIVE USE OF INTEGRATED CIRCUITRY**
- **COMPACT AND ATTRACTIVELY STYLED – Available in black or white housing**
- **EXTENDED BATTERY LIFE – All models have battery saving circuit**

RUGGED AND SHOCK RESISTANT – The new series of single-frequency, FM Executive Pagers from General Electric are built to stand the rough treatment normally encountered in this service. An extremely durable LEXAN® case houses the electronics assembly which is mounted in shock absorbent vinyl foam. The shock stability specification calls for a 2-meter drop test on concrete. (That is twice the distance required to meet the EIA standard). The battery has a separate enclosure and the speaker mounts in a rubber retaining cup for additional protection of the electronic assembly in case of severe shock.

RELIABLE PERFORMERS – These paging receivers employ the latest electronic techniques such as modular and integrated circuit construction using top quality precision components. The tone decoders use solid-state Versatone networks with proven performance and reliability instead of delicate ceramic or reed resonators. A single printed wiring board contains the entire receiver, thus, eliminating troublesome interconnections found in multi-board receivers.

COMFORT ENGINEERED – The compact, attractively styled pager is easily carried. Its modern case design features rounded edges and protrusions are kept to a minimum. A spring clip with rounded edges and rubber insert on the inside is mounted on back of the pager. This clip securely grips pockets without damage to material or fits over belts up to 2 inches wide.

EXTENDED BATTERY LIFE – All models employ a battery saving circuit for maximum battery life and economy. The normally furnished Nickel Cadimum battery powers the pager up to 44 hours between charges. Optional Alkaline and Mercury batteries allow up to 160 and 320 hours operation, respectively.

OPERATIONAL FEATURES – Pagers are offered in Tone and Voice or Tone (only) models. Their receivers are controlled by Type 99 (sequential) Tone Decoders with either Individual or Individual and Group Call capability. Operational modes are fully described on the back of this publication.

Operating controls are conveniently located on top of the unit. All models have an OFF-ON/VOLUME Control for setting the level of the tone and/or voice message and a wide "bar" switch for tone control.

Other features include an Option Jack and identification window which are built-in to the side of the unit.

OPTIONS AND ACCESSORIES available include Desk Charger (single and multi-unit), lapel speaker, earpiece, non-rechargeable batteries, carrying case, Paging Terminal and Encoding Console.

GENERAL ELECTRIC

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OPERATING SPECIFICATIONS

GENERAL ELECTRIC *Executive Pager*

150.8–174 MHz Receiver Model ER-94-A

COMBINATION NO.	TYPE OF RECEIVER	TYPE OF CONTROL	TONE PAGING CAPABILITY
AH06A*L66	Tone & Voice	Automatic Reset	Individual Call
AH06B*L66	Tone & Voice	Push-to-Reset	Individual Call
AH06C*L66	Tone & Voice	Push-to-Listen	Individual Call
AH06D*L66	Tone	Push-to-Silence	Individual Call
AH06F*L66	Tone & Voice	Push-to-Reset	Individual & Group Call
AH06G*L66	Tone & Voice	Push-to-Listen	Individual & Group Call
AH06H*L66	Tone	Push-to-Silence	Individual & Group Call
AH06J* L66	Tone & Voice	Automatic Reset	Individual & Group Call

*Insert letter "W" for Fixed Tone Alert; "V" for Adjustable Tone Alert (tone adjusted by volume control)

RECEIVER OPERATION:

The Tone and Voice Receiver is controlled by a GE Type 99 Tone Decoder. In its normal mode, a voice message cannot be heard unless it is preceded by the specific tone code assigned to that receiver. Also, the way a Tone and Voice Receiver hears its message and/or is reset for the next call depends on the control option supplied. With the "Automatic Reset" Option, the intended message is heard after receipt of the alert tone and, then, the receiver automatically resets for the next call. This all happens in 30 seconds without any assistance from the user. With the "Push-to-Reset" Option, the action is similar to Automatic Reset except the user must press the "Reset" switch to quiet and reset the receiver. With "Push-to-Listen", the user, upon receipt of an alert tone, must press and hold the "Listen" switch to receive the message. Releasing the switch quiets the receiver and resets it for the next call.

A Tone (only) Receiver also is controlled by a GE Type 99 Tone Decoder and produces one short timed burst of alert tone upon receipt of its tone code. Following a call, the decoder automatically resets. However the tone, when present, may be quieted by pressing the "Push-to-Silence" switch.

DIMENSIONS (Less Spring Clip):
H x W X D: 5.08 x 2.45 x 1.10 ins. (12,90 x 6,22 x 2,79 cm.)

WEIGHT: 8.6 oz.; 244 g (w/Rechargeable or Alkaline Battery)
8.85 oz.; 251 g (w/Mercury Battery)

COLOR: Black; White (Optional)

OPERATING TEMPERATURE: $-10^{o}C$ to $+50^{o}C$

BATTERY LIFE (Based on Tone & Voice Models, 15 calls per 8 hour day):

Rechargeable Battery	Alkaline Battery	Mercury Battery
44 hours	160 hours	320 hours

POWER CONSUMPTION (@ 3.75 VDC):

Receive	Standby (Battery Saver On)	Standby (Battery Saver Off)
105 ma	3 ma	13 ma

110

SHOCK STABILITY: Withstands 2 meter drop test on concrete (Double EIA Standard).

SHOCK ABSORBERS: Electronic circuit board and crystals protected by shock absorbent vinyl foam.

	TONE AND VOICE	TONE
Modulation Acceptance:	±7 kHz	±7 kHz
Channel Spacing:	30 kHz	30 kHz
Selectivity EIA (30 kHz):	60 dB	60 dB
Field Strength Sensitivity		
12dB SINAD:	20 uv/meter	N. A.
20 dB Quieting:	30 uv/meter	N. A.
Field Strength Paging Sensitivity:	8 uv/meter	8 uv/meter
Frequency Stability:	±0.001%	±0.001%
Spurious & Image Rejection:	−50 dB	−50 dB
Audio Output:	150 mW @ less than 10% distortion	N. A.
Alert Tone:	200 mW (2300 ±200 Hz)	200 mW (2300 ±200 Hz)

NOTE: The Alert Tone used for audible signalling in the Pager is internally generated and is independent of the level, duration or frequency of the incoming code.

MOBILE RADIO DEPARTMENT
GENERAL ELECTRIC COMPANY • LYNCHBURG, VIRGINIA 24502

ECR-2124

GENERAL ELECTRIC

12/75 Printed in U.S.A.

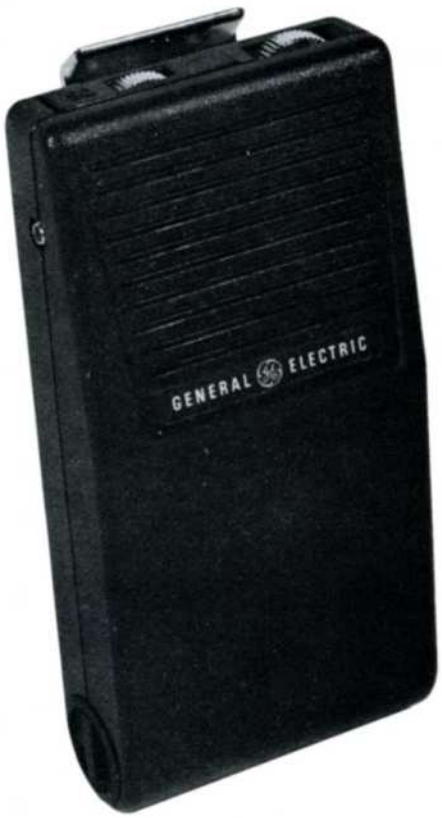
MOBILE RADIO
MOBILE SALES INFORMATION MANUAL
product news

SFM: P7608
May 28, 1976

TO: All Field Sales Personnel

SUBJECT: VOICE (ONLY) MODELS OF THE EXECUTIVE PAGER

Voice (only) Models of the Executive Pager with standard noise squelch will soon be available in both the 150.8 - 174 MHz and 450 - 470 MHz Frequency Ranges.



VOICE (ONLY) PAGER

These Pagers will be similar to the Tone and Voice and Tone (only) Models introduced earlier this year by SFM: P7604 (February 13, 1976). In the adjacent illustration, you will notice the tone control bar has been replaced by a conventional rotary noise squelch control. Since the receiver is not tone controlled, it will receive all messages, within range,on its channel.

The Voice (only) Pagers incorporate a battery saving circuit which reduces average current during standby by alternately turning power to the receiver stages on and off. Power is on for approximately 60 milliseconds and off for approximately 540 milliseconds. Of course, the battery saving circuit is disabled while the receiver is quieted by an incoming signal.

The High Band and UHF Specification Sheets (ECR-2124 and ECR-2125) have been revised to incorporate Voice (only) Pagers and are attached to this SFM.

A complete set of battery life curves for the Nickel-Cadmium, Mercury and Alkaline Batteries are also attached. These curves were compiled per EIA Standard using a 1000 Hz tone signal to produce 150 milliwatts audio output.

ORDERING INFORMATION

AVAILABILITY

The Voice (only) Pagers will be available after June first. The shipping estimate for units and associated options and accessories is 10 weeks.

PRICE

The new combinations are priced as follows:

Ordering Number	Description	Price
AHO6EUS66	150.8 - 174 MHz Voice (only) Pager with standard noise squelch.	$280.00
AH05EUS88	450 - 470 MHz Voice (only) Pager with standard noise squelch.	$300.00

All options presently listed for Pagers in the Mobile Radio Price Catalog apply to the new Pager Models.

R. Glenn Elgin
Marketing Communications

Enclosures: ECR-2124A
ECR-2125A
ECR-2209-1 thru -6 (Battery Life Curves)

Executive Pager

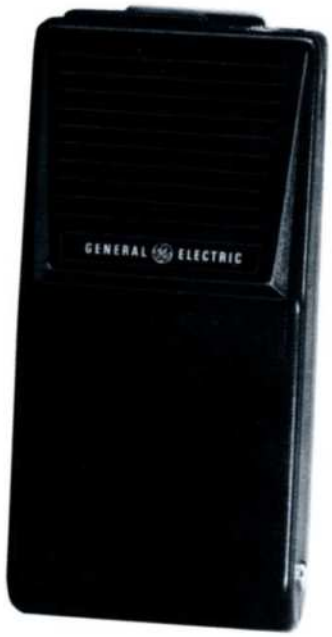
ECR-2124A

MOBILE RADIO

TONE AND VOICE, TONE ONLY, OR VOICE ONLY MODELS

FM POCKET RECEIVER 150.8-174 MHz
(TONE MODELS ILLUSTRATED)

(OPTIONAL)



- **RUGGEDLY CONSTRUCTED – Electronics shock-mounted in LEXAN® housing**
- **SOLID STATE VERSATONE NETWORKS – For reliable tone signalling**
- **EXTENSIVE USE OF INTEGRATED CIRCUITRY**
- **COMPACT AND ATTRACTIVELY STYLED – Available in black or white housing**
- **EXTENDED BATTERY LIFE – All models have battery saving circuit**

RUGGED AND SHOCK RESISTANT – The new series of single-frequency, FM Executive Pagers from General Electric are built to stand the rough treatment normally encountered in this service. An extremely durable LEXAN®case houses the electronics assembly which is mounted in shock absorbent vinyl foam. The shock stability specification calls for a 2-meter drop test on concrete. (That is twice the distance required to meet the EIA standard). The battery has a separate enclosure and the speaker mounts in a rubber retaining cup for additional protection of the electronic assembly in case of severe shock.

RELIABLE PERFORMERS –These paging receivers employ the latest electronic techniques such as modular and integrated circuit construction using top quality precision components. The models with tone decoders use solid-state Versatone networks with proven performance and reliability instead of delicate ceramic or reed resonators. A single printed wiring board contains the entire receiver, thus, eliminating troublesome interconnections found in multi-board receivers.

COMFORT ENGINEERED – The compact, attractively styled pager is easily carried. Its modern case design features rounded edges and protrusions are kept to a minimum. A spring clip with rounded edges and rubber insert on the inside is mounted on back of the pager. This clip securely grips pockets without damage to material or fits over belts up to 2 inches wide.

EXTENDED BATTERY LIFE – All models employ a battery saving circuit for maximum battery life and economy. The normally furnished Nickel Cadimum battery powers the pager up to 44 hours between charges. Optional Alkaline and Mercury batteries allow up to 160 and 320 hours operation, respectively.

OPERATIONAL FEATURES – Pagers are offered in three receiver types: Tone and Voice; Tone (only) and Voice (only) models. Tone equipped models are controlled by Type 99 (sequential) Tone Decoders with either Individual or Individual and Group Call capability. The Voice (only) model receives all messages, within range, on its channel. Operational modes are further described on the back of this publication.

Operating controls are conveniently located on the top of the unit. All models have an OFF-ON/VOLUME Control for setting the level of the tone and/or voice message. Tone models have a wide "bar" switch for tone control while the Voice (only) model has a conventional noise squelch control.

Other features include an Option Jack and identification window which are built-in to the side of the unit.

OPTIONS AND ACCESSORIES available include Desk Charger (single and multi-unit), lapel speaker, earpiece, non-rechargeable batteries, carrying case, Paging Terminal and Encoding Console.

GENERAL ELECTRIC

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OPERATING SPECIFICATIONS

GENERAL ELECTRIC *Executive Pager*

150.8–174 MHz Receiver Model ER-94-A

COMBINATION NO.	TYPE OF RECEIVER	TYPE OF CONTROL	TONE PAGING CAPABILITY
AH06A*L66	Tone & Voice	Automatic Reset	Individual Call
AH06B*L66	Tone & Voice	Push-to-Reset	Individual Call
AH06C*L66	Tone & Voice	Push-to-Listen	Individual Call
AH06D*L66	Tone	Push-to-Silence	Individual Call
AH06EU66	Voice	Adjustable Noise Squelch	Not Applicable
AH06F*L66	Tone & Voice	Push-to-Reset	Individual & Group Call
AH06G*L66	Tone & Voice	Push-to-Listen	Individual & Group Call
AH06H*L66	Tone	Push-to-Silence	Individual & Group Call
AH06J* L66	Tone & Voice	Automatic Reset	Individual & Group Call

*Insert letter "W" for Fixed Tone Alert; "V" for Adjustable Tone Alert (tone adjusted by volume control)

RECEIVER OPERATION:

The Tone and Voice Receiver is controlled by a GE Type 99 Tone Decoder. In its normal mode, a voice message cannot be heard unless it is preceded by the specific tone code assigned to that receiver. Also, the way a Tone and Voice Receiver hears its message and/or is reset for the next call depends on the control option supplied. With the "Automatic Reset" Option, the intended message is heard after receipt of the alert tone and, then, the receiver automatically resets for the next call. This all happens in 30 seconds without any assistance from the user. With the "Push-to-Reset" Option, the action is similar to Automatic Reset except the user must press the "Reset" switch to quiet and reset the receiver. With "Push-to-Listen", the user, upon receipt of an alert tone, must press and hold the "Listen" switch to receive the message. Releasing the switch quiets the receiver and resets it for the next call.

A Tone (only) Receiver also is controlled by a GE Type 99 Tone Decoder and produces one short timed burst of alert tone upon receipt of its tone code. Following a call, the decoder automatically resets. However the tone, when present, may be quieted by pressing the "Push-to-Silence" switch.

A Voice (only) Receiver is not tone controlled and will "hear" every message on its channel within range. It is provided with a conventional noise squelch control.

DIMENSIONS (Less Spring Clip):
H x W X D — 5.08 x 2.45 x 1.10 ins. (12,90 x 6,22 x 2,79 cm.)

WEIGHT: — 8.6 oz.; 244 g (w/Rechargeable or Alkaline Battery)
8.85 oz.; 251 g (w/Mercury Battery)

COLOR: — Black; White (Optional)

OPERATING TEMPERATURE: — $-10^{o}C$ to $+50^{o}C$

BATTERY LIFE (Based on Tone & Voice Models, 15 calls per 8 hour day):	Rechargeable Battery	Alkaline Battery	Mercury Battery
	44 hours	160 hours	320 hours
(Voice only models – 5% Rx, 95% standby):	22 hours	70 hours	140 hours

POWER CONSUMPTION (@ 3.75 VDC):	Receive	Standby (Battery Saver On)	Standby (Battery Saver Off)
	110 ma	3 ma	13 ma

SHOCK STABILITY: — Withstands 2 meter drop test on concrete (Double EIA Standard).

SHOCK ABSORBERS: — Electronic circuit board and crystals protected by shock absorbent vinyl foam.

	TONE AND VOICE	TONE	VOICE
Modulation Acceptance:	±7 kHz	±7 kHz	±7 kHz
Channel Spacing:	30 kHz	30 kHz	30 kHz
Selectivity EIA (30 kHz):	60 dB	60 dB	60 dB
Field Strength Sensitivity			
12dB SINAD:	20 uv/meter	N. A.	20 uv/meter
20 dB Quieting:	30 uv/meter	N. A.	30 uv/meter
Field Strength Paging Sensitivity:	8 uv/meter	8 uv/meter	N.A.
Frequency Stability:	±0.001%	±0.001%	±0.001%
Spurious & Image Rejection:	–50 dB	–50 dB	–50 dB
Audio Output:	150 mW @ less than 10% distortion	N. A.	150 mW @ less than 10% distortion
Alert Tone:	200 mW (2300 ±200 Hz)	200 mW (2300 ±200 Hz)	N.A.

NOTE: The Alert Tone used for audible signalling in the Pager is internally generated and is independent of the level, duration or frequency of the incoming code.

MOBILE RADIO DEPARTMENT
GENERAL ELECTRIC COMPANY • LYNCHBURG, VIRGINIA 24502

ECR-2124A

5/76 Printed in U.S.A.

GENERAL ELECTRIC

Executive Pager

ECR-2125A

GE MOBILE RADIO

TONE AND VOICE, TONE ONLY, OR VOICE ONLY MODELS

FM POCKET RECEIVER 450-470 MHz
(TONE MODELS ILLUSTRATED)

(OPTIONAL)

- **RUGGEDLY CONSTRUCTED – Electronics shock-mounted in LEXAN® housing**
- **SOLID STATE VERSATONE NETWORKS – For reliable tone signalling**
- **EXTENSIVE USE OF INTEGRATED CIRCUITRY**
- **COMPACT AND ATTRACTIVELY STYLED – Available in black or white housing**
- **EXTENDED BATTERY LIFE – All models have battery saving circuit**

RUGGED AND SHOCK RESISTANT – The new series of single-frequency, FM Executive Pagers from General Electric are built to stand the rough treatment normally encountered in this service. An extremely durable LEXAN® case houses the electronics assembly which is mounted in shock absorbent vinyl foam. The shock stability specification calls for a 2-meter drop test on concrete. (That is twice the distance required to meet the EIA standard). The battery has a separate enclosure and the speaker mounts in a rubber retaining cup for additional protection of the electronic assembly in case of severe shock.

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COMFORT ENGINEERED – The compact, attractively styled pager is easily carried. Its modern case design features rounded edges and protrusions are kept to a minimum. A spring clip with rounded edges and rubber insert on the inside is mounted on back of the pager. This clip securely grips pockets without damage to material or fits over belts up to 2 inches wide.

EXTENDED BATTERY LIFE – All models employ a battery saving circuit for maximum battery life and economy. The normally furnished Nickel Cadimum battery powers the pager up to 44 hours between charges. Optional Alkaline and Mercury batteries allow up to 160 and 320 hours operation, respectively.

OPERATIONAL FEATURES – Pagers are offered in three receiver types: Tone and Voice; Tone (only) and Voice (only) models. Tone equipped models are controlled by Type 99 (sequential) Tone Decoders with either Individual or Individual and Group Call capability. The Voice (only) model receives all messages, within range, on its channel. Operational modes are further described on the back of this publication.

Operating controls are conveniently located on the top of the unit. All models have an OFF-ON/VOLUME Control for setting the level of the tone and/or voice message. Tone models have a wide "bar" switch for tone control while the Voice (only) model has a conventional noise squelch control.

Other features include an Option Jack and identification window which are built-in to the side of the unit.

OPTIONS AND ACCESSORIES available include Desk Charger (single and multi-unit), lapel speaker, earpiece, non-rechargeable batteries, carrying case, Paging Terminal and Encoding Console.

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OPERATING SPECIFICATIONS

GENERAL ELECTRIC *Executive Pager*

450-470 MHz Receiver Model ER-95-A

COMBINATION NO.	TYPE OF RECEIVER	TYPE OF CONTROL	TONE PAGING CAPABILITY
AH05A*L88	Tone & Voice	Automatic Reset	Individual Call
AH05B*L88	Tone & Voice	Push-to-Reset	Individual Call
AH05C*L88	Tone & Voice	Push-to-Listen	Individual Call
AH05D*L88	Tone	Push-to-Silence	Individual Call
AH05EU88	Voice	Adjustable Noise Squelch	Not Applicable
AH05F*L88	Tone & Voice	Push-to-Reset	Individual & Group Call
AH05G*L88	Tone & Voice	Push-to-Listen	Individual & Group Call
AH05H*L88	Tone	Push-to-Silence	Individual & Group Call
AH05J* L88	Tone & Voice	Automatic Reset	Individual & Group Call

*Insert letter "W" for Fixed Tone Alert; "V" for Adjustable Tone Alert (tone adjusted by volume control)

RECEIVER OPERATION:

The Tone and Voice Receiver is controlled by a GE Type 99 Tone Decoder. In its normal mode, a voice message cannot be heard unless it is preceded by the specific tone code assigned to that receiver. Also, the way a Tone and Voice Receiver hears its message and/or is reset for the next call depends on the control option supplied. With the "Automatic Reset" Option, the intended message is heard after receipt of the alert tone and, then, the receiver automatically resets for the next call. This all happens in 30 seconds without any assistance from the user. With the "Push-to-Reset" Option, the action is similar to Automatic Reset except the user must press the "Reset" switch to quiet and reset the receiver. With "Push-to-Listen", the user, upon receipt of an alert tone, must press and hold the "Listen" switch to receive the message. Releasing the switch quiets the receiver and resets it for the next call.

A Tone (only) Receiver also is controlled by a GE Type 99 Tone Decoder and produces one short timed burst of alert tone upon receipt of its tone code. Following a call, the decoder automatically resets. However the tone, when present, may be quieted by pressing the "Push-to-Silence" switch.

A Voice (only) Receiver is not tone controlled and will "hear" every message on its channel within range. It is provided with a conventional noise squelch control.

DIMENSIONS (Less Spring Clip):
H x W X D — 5.08 x 2.45 x 1.10 ins. (12,90 x 6,22 x 2,79 cm.)

WEIGHT: — 8.6 oz.; 244 g (w/Rechargeable or Alkaline Battery)
8.85 oz.; 251 g (w/Mercury Battery)

COLOR: — Black; White (Optional)

OPERATING TEMPERATURE: — $-10^{o}C$ to $+50^{o}C$

BATTERY LIFE (Based on Tone & Voice Models, 15 calls per 8 hour day): (Voice only Models–5% Rx, 95% standby):	Rechargeable Battery	Alkaline Battery	Mercury Battery
	44 hours	160 hours	320 hours
	22 hours	70 hours	140 hours

POWER CONSUMPTION (@ 3.75 VDC):	Receive	Standby (Battery Saver On)	Standby (Battery Saver Off)
	112 ma	3 ma	15 ma

SHOCK STABILITY: — Withstands 2 meter drop test on concrete (Double EIA Standard).

SHOCK ABSORBERS: — Electronic circuit board and crystals protected by shock absorbent vinyl foam.

	TONE AND VOICE	TONE	VOICE
Modulation Acceptance:	±7 kHz	±7 kHz	±7 kHz
Channel Spacing:	25 kHz	25 kHz	25 kHz
Selectivity EIA (30 kHz):	60 dB	60 dB	60 dB
Field Strength Sensitivity			
12dB SINAD:	30 uv/meter	N. A.	30 uv/meter
20 dB Quieting:	45 uv/meter	N. A.	45 uv/meter
Field Strength Paging Sensitivity:	15 uv/meter	15 uv/meter	N. A.
Frequency Stability:	±0.0005%	±0.0005%	±0.0005%
Spurious & Image Rejection:	–40 dB	–40 dB	–40 dB
Audio Output:	150 mW @ less than 10% distortion	N. A.	150 mW @ less than 10% distortion
Alert Tone:	200 mW (2300 ±200 Hz)	200 mW (2300 ±200 Hz)	N. A.

NOTE: The Alert Tone used for audible signalling in the Pager is internally generated and is independent of the level, duration or frequency of the incoming code.

MOBILE RADIO DEPARTMENT
GENERAL ELECTRIC COMPANY • LYNCHBURG, VIRGINIA 24502

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GENERAL ELECTRIC

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