MAINTENANCE MANUAL

Text Fixture Model 4EX17A10 (Option 5425)



SPECIFICATIONS *

Used With

Nominal Input Voltage

Input Current (typical)
No Load
Rated Audio
Shorted Output

Adjustable Output Voltage

Calibrated Output Voltage No Load Rated Audio

RF Input Impedance

Coupling Loss (Generator to Receiver)

PC06 PC05

Temperature Range

Dimensions (HxWxD)
Weight

Paging Receivers PC05 & PC06

13.8 Volts DC

13 milliamperes 96 milliamperes 225 milliamperes

2.7-to 4.5-Volts DC

3.8 Volts \pm 0.1 Volt DC 3.7 Volts \pm 0.1 Volt DC

Approximately 50 ohms

Approximately -37 dB Approximately -24 dB

 -30° C to $+60^{\circ}$ C

 $2" \times 7-1/4" \times 7-1/4"$ 2.5 pounds

^{*}These specifications are intended primarily for the use of the serviceman. Refer to the appropriate Specification Sheet for the complete specifications.

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--- WARNING ---

No one should be permitted to handle any portion of the equipment that is supplied with voltage or RF power; or to connect any external apparatus to the units while the units are supplied with power. KEEP AWAY FROM LIVE CIRCUITS.

DESCRIPTION

General Electric Test Fixture Model 4EX17A10 was designed for servicing Personal Paging receivers PC05 and PC06. A layout of the Test Fixture with a Personal Pager is shown in Figure 1.

The Test Fixture provides a regulated 3.7 volts for operating the receiver, and is equipped with a centralized metering jack for use with GE Test Set Models 4EX3A10 or 4EX8K11. The metering jack provides access to the following:

- receiver current
- input voltage
- regulated supply voltage
- receiver audio

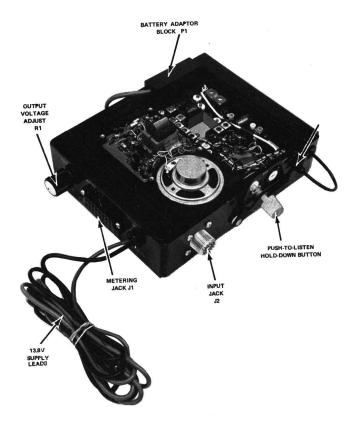


Figure 1 - Test Fixture Layout

The input jack is terminated in a 50-ohm radiating loop so that a signal may be radiated into the receiver. For Push-To-Listen receivers, a hold-down button is provided to keep the Push-To-Listen button depressed while servicing.

OPERATION

The Test Fixture may be operated from any 250 milliampere, 12-volt DC source. A low ripple source is not required.

---- WARNING ----

If an AC power supply is used, make sure that the power supply chassis is connected to a good earth ground.

TEST FIXTURE SET-UP

To put the Test Fixture into operation:

- Connect the Red supply lead to plus (+) and the Black supply lead to minus (-).
- 2. Place the receiver into the Test Fixture as shown in Figure 1.
- 3. Insert the battery adaptor block into the receiver battery compartment as shown.
- 4. Turn potentiometer Rl counterclockwise until it clicks. The Test Fixture now applies the calibrated 3.7 volts to the receiver. For a variable supply voltage, turn Rl clockwise from the calibrated position. This varies the voltage from 2.7 to 4.5 volts DC.
- 5. Connect audio plug P2 to the receiver accessory jack. This mutes the speaker while terminating the receiver output into an 8-ohm load, and applies audio to the metering jack.
- 6. Connect the GE Test Set to Test Fixture metering jack Jl, and turn the receiver ON. The radio is now ready for servicing.

RECEIVER SERVICING

It is recommended that the coupling loss and the current drain for each paging receiver in the system be measured and retained as a service aid.

Coupling Loss

To measure the signal generator-to-receiver coupling loss:

- Measure the receiver sensitivity as shown in the Test Procedure in the receiver Maintenance Manual. Note the sensitivity in dBm.
- 2. Place the receiver in the Test Fixture and connect the signal generator to Input Jack J2. Then measure the sensitivity of the receiver and note the sensitivity in dBm. The difference between the two readings is the coupling loss.

Current Drain

To meter the receiver current with the GE Test Set Model 4EX3AlO or 4EX8Kll:

- Place the Range Selector switch in the Test 1 position (or 1-volt position on the 4EX8K11).
- Place the Test Selector switch in Position G.
- Read the receiver current drain on the 1-volt scale as 100 milliamperes full scale.

To meter the receiver current with a 20,000 ohms-per-volt meter with a 1-volt scale:

- Connect the meter probes to J1-1 and J1-9, and switch the meter to the 1volt scale.
- 2. Read the current on the 1-volt scale as 100 milliamperes full scale.

Regulated Output Voltage

To meter the regulated output voltage:

- Place the Range Selector switch in the Test 1 position (or 1-volt position on the 4EX8K11).
- 2. Place the Test Selector switch in position I.
- 3. Read the output voltage on the 1-volt scale as 6 volts full scale.

To meter the output voltage using a 20,000 ohms per-Volt meter with a 1-volt scale:

- 1. Connect the meter probes to J1-12 (+) and J1-16 (-), and switch the meter to the 1-volt scale.
- Read the voltage on the 1-volt scale as 6 volts full scale.

Input Voltage

To meter the input voltage:

- 1. Place the Range Selector switch in the Test 1 position (or 1-volt position on the 4EX8K11).
- Place the Test Selector switch in Position J.
- 3. Read the input voltage on the 1-volt scale as 15 volts full scale.

To meter the input voltage using a 20,000 ohms per-Volt meter with a 1-volt scale:

- Connect the meter probe to J1-8 (+) and J1-16 (-), and switch the meter to the 1-Volt scale.
- 2. Read the voltage on the 1-Volt scale as 15 volts full scale.

Receiver Audio

When Test Set Model 4EX3AlO is connected to the Test Fixture metering jack, the receiver audio output is available at the Green (audio high) and Black (audio low) audio test jacks. An audio voltmeter or distortion analyzer can be connected to the audio test jacks for receiver output, distortion or SINAD measurements.

MAINTENANCE

DISASSEMBLY

To gain access to the Test Fixture circuitry, remove the three Phillips-head screws that are closest to the center of the bottom plate. Then lift off the top section of the Test Fixture.

ADJUSTMENT PROCEDURE

If any of the components are replaced, adjust the regulated output voltage as follows:

- Remove the receiver from the Test Fixture.
- Turn Output Voltage Control Rl on the Test Fixture fully counterclockwise to the CALIBRATE position.
- 3. Place the GE Test Set range selector switch to the Test 1 position.
- 4. Check for an open circuit voltage of 3.8 volts DC, read on the 1-volt scale as 6-volts full scale.
- If necessary, adjust R11 on Regulator Board A1 for 3.8 volts DC.

MAINTENANCE LBI-4228

CIRCUIT ANALYSIS

Test Fixture Model 4EX17A10 consists of the receiver holding fixture and a bottom plate. Mounted on the receiver holding fixture are the metering and antenna jacks, audio plug, voltage adjust potentiometer and battery adaptor block. Regulator Board Al is mounted on the bottom plate.

References to symbol numbers mentioned in the following test can be found in the Schematic Diagram, Outline Diagram or Parts List (see Table of Contents).

REGULATOR CIRCUIT

The regulator circuit consists of regulator transistor Q1 and differential amplifier Q2 and Q3. The circuit operates as a current-limiting voltage regulator.

Applying +12 volts to the Test Fixture causes regulator Q1 to conduct. The output at the emitter of Q1 is applied to the battery adaptor block to power the receiver, to metering jack J1, and to a feed-back path in the base circuit of Q3 in the emitter-follower.

When the output voltage starts to increase, Q3 starts to conduct more. With Q2 conducting more, there is less base current for regulator Q1. This increases the voltage drop across Q1, keeping the output constant.

When the output voltage starts to drop, there is less base bias applied to Q3, causing it to conduct less. This increases the forward bias to regulate Q1 and reduces the voltage drop across the transistor, keeping the output constant.

Diode CR1 provides reverse polarity protection for the regulator transistors. Potentiometer R11 is used to set the regulator for the desired 3.8-volt, no-load output. Instructions for setting R11 are contained in the Maintenance Section of this manual.

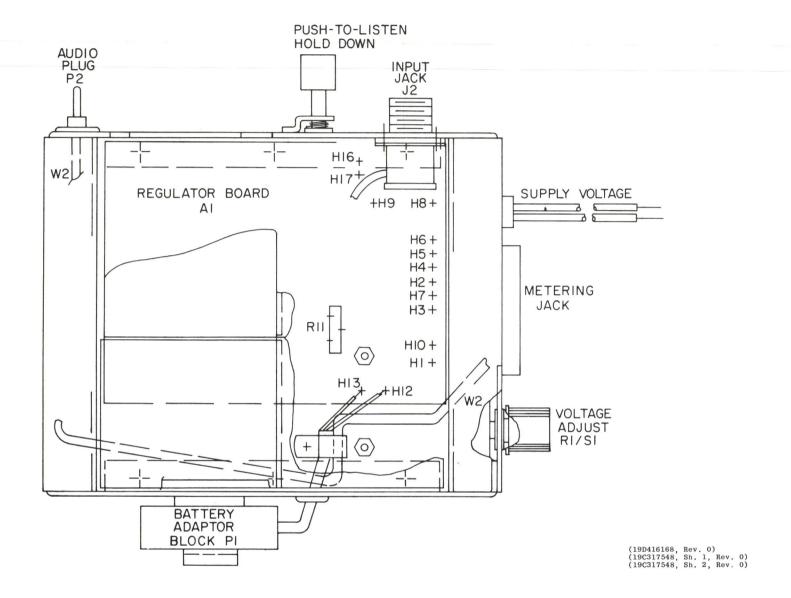
Current limiting is provided by R14. Resistors R15, R16 and R17 form a pad between the generator and the radiating loop for applying the output of a signal generator to the receiver. The radiating loop is terminated by R12.

CALIBRATION CIRCUIT

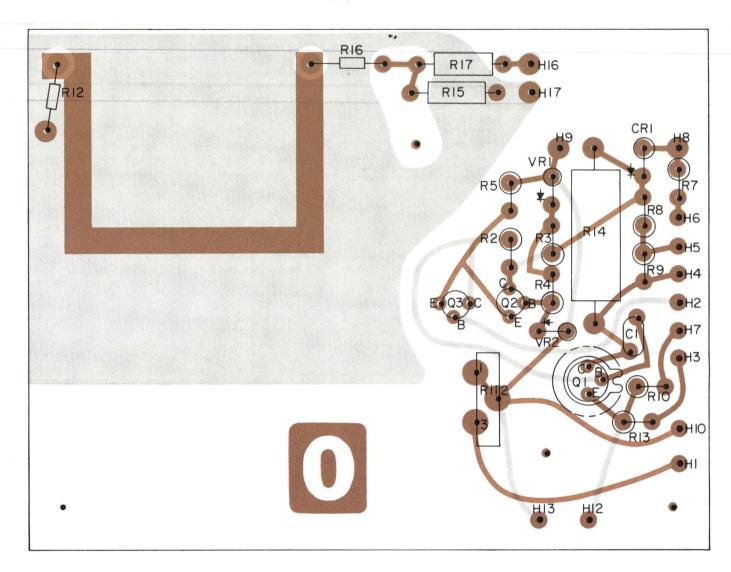
With potentiometer Rl in the calibrated position (fully CCW), Switch Sl opens and the output voltage is determined by the resistance divider consisting of Rl3, Rl, R2, and Rl1. Rll is adjusted for the proper 3.8 VDC open circuit test fixture voltage.

Turning Rl clockwise closes Sl and shorts out the resistor R2. This drops the regulated output voltage to approximately 2.7 volts. Rotating Rl further clockwise changes the resistance divider ratio of R13, Rl, and Rll which feeds the regulated output voltage to the base of Q3. This raises the output voltage to approximately 4.5 VDC when Rl is at the extreme clockwise position.

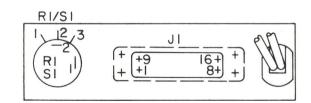
TOP VIEW

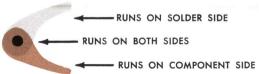


REGULATOR BOARD AI



TERMINAL VIEW





OUTLINE DIAGRAM

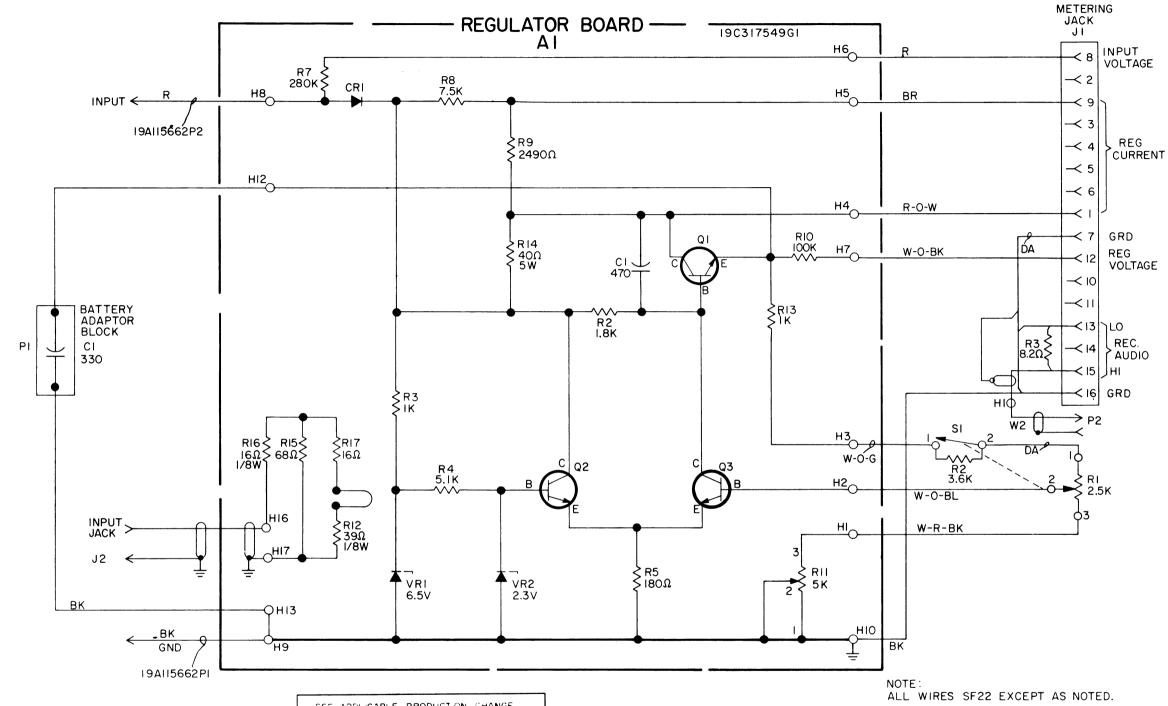
TEST FIXTURE 4EX17A10

FOR QI, Q2, & Q3

TRIANGULAR IN-LINE VIEW FROM LEAD END

LEAD IDENTIFICATION

NOTE: LEAD ARRANGEMENT, AND NOT CASE SHAPE, IS DETERMINING FACTOR FOR LEAD IDENTIFICATION.



ALL RESISTORS ARE 1/2 WATT UNLESS OTHERWISE SPECIFIED AND RESISTOR VALUES IN OHMS UNLESS FOLLOWED BY K=1000 OHMS OR MEG=1,000,000 OHMS CAPACITOR VALUES IN PICOFARADS (EQUAL TO MICROMICROFARADS) UNLESS FOLLOWED BY UF= MICROFARADS. INDUCTANCE VALUES IN MICROHENRYS UNLESS FOLLOWED BY MH= MILLIHENRYS OR H= HENRYS

SEE APPLICABLE PRODUCTION CHANGE SHEETS IN INSTRUCTION BOOK SECTION DEALING WITH THIS UNIT, FOR DESURPTION OF CHANGES UNDER EACH REVISION LETTER

THIS ELEM DIAG APPLIES TO

MODEL NO REVIETTER
PLI9D413700GI

IN ORDER TO RETAIN RATED EQUIPMENT PERFORMANCE, REPLACEMENT OF ANY SERVICE PART SHOULD BE MADE ONLY WITH A COMPONENT HAVING THE SPECIFICATIONS SHOWN ON THE PARTS LIST FOR THAT PART

(19C317571, Rev. 1)

SCHEMATIC DIAGRAM

TEST FIXTURE 4EX17A10

PARTS LIST

LBI-4240

TEST FIXTURE MODEL 4EX17A10

#10%, 0.25 w; sim to CTS Type Composition: 39 ohms ±5%, 1/8 R13	1
CR1 5494481P108 Ceramic disc: 470 pf ±10%, 10 RMC Type JF Discap. DIODES AND RECTI Silicon. DIODES AND RECTI Silicon. TRANSISTORS Silicon, NEM; sim to Type 2N30 Silicon, NEM; sim to Type 2N30 Silicon, NEM; sim to Type 2N27 and Q3 19A115123P1 Silicon, NEM; sim to Type 2N27 Silicon, NEM; sim to Type 2N27 Composition: 1800 ohms ±5%, 1 Composition: 1800 ohms ±5%, 1 Composition: 5100 ohms ±5%, 1 Composition: 180 ohms ±5%, 1 PA116278P444 R8	LOOO VDCW; sim to
CR1 5494481P108 Ceramic disc: 470 pf ±10%, 10 RMC Type JF Discap. DIGDES AND RECTI Silicon. DIGDES AND RECTI Silicon. TRANSISTORS Silicon, NEM; sim to Type 2N30 Silicon, NEM; sim to Type 2N30 Silicon, NEM; sim to Type 2N27 and 19A115123P1 Silicon, NEM; sim to Type 2N27 RESISTORS Composition: 1800 ohms ±5%, 1 Composition: 1000 ohms ±5%, 1 Composition: 5100 ohms ±5%, 1 Composition: 180 ohms ±5%, 1 PA 19A116278P444 Ref 11m: 0.28 megohm ±2%, 1 PA 19A116278P444 Ref 11m: 0.28 megohm ±2%, 1 PA 19A116278P401 Ref 11m: 0.10 megohm ±2%, 1 PA 19B209358P105 Wetal film: 0.10 megohm ±2%, 1 PA 19B209358P105 Variable, carbon film: approx ±10%, 0.25 w; sim to CTS Type Composition: 39 ohms ±5%, 1 PA 19B20935P1 Wirewound: 40 ohms ±5%, 5 w; Hall Type HR. S493035P1 Wirewound: 40 ohms ±5%, 5 w; Hall Type HR. S493035P1 Composition: 16 ohms ±5%, 1 PA 19B21904761 Composition: 16 ohms ±5%, 1 PA 19B21904761 Silicon, Zener. VOLTAGE REGULA SILICON, Zener. PLUGS PLUG ASSEMBLY 19B21904761 Silicon, Zener. PLUGS SIlicon, Zener. PLUG ASSEMBLY 19B219038P1 Silicon, Zener. CAPACITORS PLUG ASSEMBLY 19B219038P1 Block. 19A127927P1 A033714P3 Solderless, terminal: sim to	LOOO VDCW; sim to
CR1 4037822P1 Silicon.	פמעוק זיי
Q1 19A115300P1 Silicon, NFN; sim to Type 2N30 Silicon, NFN; sim to Type 2N30 Silicon, NFN; sim to Type 2N30 Silicon, NFN; sim to Type 2N27	
Q1	
19A115123P1 Silicon, NFN; sim to Type 2N27	S
### RESTATORS ### RE	3053.
R2 3R77P182J Composition: 1800 ohms ±5%, 1 R3 3R77P102J Composition: 1000 ohms ±5%, 1 R4 3R77P181J Composition: 5100 ohms ±5%, 1 R5 3R77P181J Composition: 180 ohms ±5%, 1 R7 19A116278P444 Metal film: 0.28 megohm ±2%, R8 19A116278P285 Metal film: 7500 ohms ±2%, 1/ R9 19A116278P299 Metal film: 2490 ohms ±2%, 1/ R10 19A116278P401 Metal film: 0.10 megohm ±2%, R11 19B209358P105 Variable, carbon film: approx ±10%, 0.25 w; sim to CTS Type R12 3R151P390J Composition: 39 ohms ±5%, 1/8 R13 3R77P102J Composition: 1000 ohms ±5%, 1/8 R14 5493035P11 Wirewound: 40 ohms ±5%, 5 w; Hall Type HR. R15 3R77P680J Composition: 68 ohms ±5%, 1/8 R16 3R151P160J Composition: 16 ohms ±5%, 1/8 R17 3R77P160J Composition: 16 ohms ±5%, 1/8 VR1 4036887P6 Silicon, Zener. VR2 4036887P1 Silicon, Zener. J1 19B205689G2 Jack: includes (16) 19A115853	2712.
R3 3R77P102J Composition: 1000 ohms ±5%, 1 R4 3R77P512J Composition: 5100 ohms ±5%, 1 R5 3R77P181J Composition: 180 ohms ±5%, 1/ R7 19A116278P444 Metal film: 0.28 megohm ±2%, 1/ R8 19A116278P285 Metal film: 7500 ohms ±2%, 1/ R9 19A116278P401 Metal film: 0.10 megohm ±2%, 1/ R10 19A116278P401 Metal film: 0.10 megohm ±2%, 1/ R11 19B209358P105 Variable, carbon film: approx ±10%, 0.25 w; sim to CTS Type R12 3R151P390J Composition: 39 ohms ±5%, 1/8 R13 3R77P102J Composition: 1000 ohms ±5%, 1/8 R14 5493035P11 Wirewound: 40 ohms ±5%, 5 w; Hall Type HR. R15 3R77P680J Composition: 68 ohms ±5%, 1/8 R16 3R151P160J Composition: 16 ohms ±5%, 1/8 R17 3R77P160J Composition: 16 ohms ±5%, 1/8 R18 4036887P6 Silicon, Zener. VR1 4036887P6 Silicon, Zener. J1 19B205689G2 Jack: includes (16) 19A115853	3
R4 3R77P512J Composition: 5100 ohms ±5%, 1/R5 3R77P181J Composition: 180 ohms ±5%, 1/R7 19A116278P444 Metal film: 0.28 megohm ±2%, 1/R8 19A116278P285 Metal film: 7500 ohms ±2%, 1/R9 19A116278P401 Metal film: 2490 ohms ±2%, 1/R10 19B209358P105 Wariable, carbon film: approx ±10%, 0.25 w; sim to CTS Type R12 3R151P390J Composition: 39 ohms ±5%, 1/R13 3R77P102J Composition: 1000 ohms ±5%, 1/R14 5493035P11 Wirewound: 40 ohms ±5%, 5 w; Hall Type HR. R15 3R77P680J Composition: 68 ohms ±5%, 1/R16 3R151P160J Composition: 16 ohms ±5%, 1/R17 3R77P160J Composition: 17 000 ohms ±5%, 1/R17 3R77P160J Composition:	1/2 w.
R5 3R77P181J Composition: 180 ohms ±5%, 1/R7 19A116278P444 Metal film: 0.28 megohm ±2%, 1/R8 19A116278P285 Metal film: 7500 ohms ±2%, 1/R9 19A116278P239 Metal film: 2490 ohms ±2%, 1/R10 19A116278P401 Metal film: 0.10 megohm ±2%, 1/R11 19B209358P105 Variable, carbon film: approx ±10%, 0.25 w; sim to CTS Type Composition: 39 ohms ±5%, 1/R 3R77P102J Composition: 39 ohms ±5%, 1/R 14 5493035P11 Wirewound: 40 ohms ±5%, 5 w; Hall Type HR. R15 3R77P680J Composition: 68 ohms ±5%, 1/R 14 3R77P160J Composition: 16 ohms ±5%, 1/R 17 3R77P160J Composition: 16 ohms ±5%, 1/R 19B205689G2 Jack: includes (16) 19A115853	1/2 w.
R7	1/2 w.
R8	1/2 w.
R9	, 1/2 w.
R10	1/2 w.
R11	1/2 w.
# 10%, 0.25 w; sim to CTS Type Composition: 39 ohms ±5%, 1/8 R13	, 1/2 w.
R13 3R77P102J Composition: 1000 ohms ±5%, 1 R14 5493035P11 Wirewound: 40 ohms ±5%, 5 w; Hall Type HR. R15 3R77P680J Composition: 68 ohms ±5%, 1/2 R16 3R151P160J Composition: 16 ohms ±5%, 1/2 Composition: 16 ohms ±5%, 1/2	ox 75 to 5000 ohms e $X-201$.
R14 5493035Pl1 Wirewound: 40 ohms ±5%, 5 w; Hall Type HR. R15 3R77P680J Composition: 68 ohms ±5%, 1/2 R16 3R151P160J Composition: 16 ohms ±5%, 1/2 Composition: 16 ohms ±5%, 1/2	/8 w.
Hall Type HR.	1/2 w.
R16 3R151P160J Composition: 16 ohms ±5%, 1/8 R17 3R77P160J Composition: 16 ohms ±5%, 1/8	; sim to Hamilton
R17 3R77P160J Composition: 16 ohms ±5%, 1/2 VOLTAGE REGULA VR1 4036887P6 Silicon, Zener. VR2 4036887P1 Silicon, Zener. JACKS AND RECEPJ Jack: includes (16) 19A115853 PLUG ASSEMBLY 19B219047G1 CAPACITORS - C1 19A116192P7 Ceramic: 330 pf ±20%, 50 VDCW 8131-050-W5R. 19B219038P1 Block. 19A127927P1 Angle. 4033714P3 Solderless, terminal: sim to	/2 ₩.
VR1 4036887P6 Silicon, Zener. VR2 4036887P1 Silicon, Zener. JACKS AND RECEP! J1 19B205689G2 Jack: includes (16) 19A115853 PLUG ASSEMBLY 19B219047G1 CAPACITORS - C1 19A116192P7 Ceramic: 330 pf ±20%, 50 VDCW 8131-050-W5R. 19B219038P1 Block. 19A127927P1 Angle. 4033714P3 Solderless, terminal: sim to	/8 w.
VR1 4036887P6 Silicon, Zener. VR2 4036887P1 Silicon, Zener. JACKS AND RECEPT JACKS AND RECEPT Jack: includes (16) 19A115853 PLUGS - PLUG ASSEMBLY 19B219047G1 CAPACITORS - C1 19A116192P7 Ceramic: 330 pf ±20%, 50 VDCW 8131-050-W5R. 19B219038P1 Block. 19A127927P1 Angle. 4033714P3 Solderless, terminal: sim to	/2 w.
VR2 4036887P1 Silicon, Zener. JACKS AND RECEPT Jack: includes (16) 19A115853 PLUG ASSEMBLY 19B219047G1 CAPACITORS - C1 19A116192P7 Ceramic: 330 pf ±20%, 50 VDCW 8131-050-WSR. 19B219038P1 Block. 19A127927P1 Angle. 4033714P3 Solderless, terminal: sim to	LATORS
VR2 4036887Pl Silicon, Zener. JACKS AND RECEPT Jack: includes (16) 19A115853 PLUG ASSEMBLY 19B219047Gl CAPACITORS - Cl 19A116192P7 Ceramic: 330 pf ±20%, 50 VDCW 8131-050-WSR. 19B219038Pl Block. 19A127927Pl Angle. 4033714P3 Solderless, terminal: sim to	
J1 19B205689G2 Jack: includes (16) 19A115853	
Pl PLUG ASSEMBLY 19B219047G1	
Plug ASSEMBLY 198219047G1	53Pl contacts.
19B219047G1	
C1 19A116192P7 Ceramic: 330 pf ±20%, 50 VDCW 8131-050-W5R. 19B219038P1 Block. 19A127927P1 Angle. 4033714P3 Solderless, terminal: sim to	
8131-050-W5R. 19B219038Pl Block. 19A127927Pl Angle. 4033714P3 Solderless, terminal: sim to	
19A127927Pl Angle. 4033714P3 Solderless, terminal: sim to	CW; sim to Erie
4033714P3 Solderless, terminal: sim to	
	o Zierick 75.
19B201074P204 Tap screw: 4-40 x 1/4.	
P2 (Part of W2).	

SYMBOL	GE PART NO.	DESCRIPTION
		RESISTORS
R1	19A116227P3	Resistor/switch: variable, carbon film: 2500 ohms ±20%, 1/8 w; switch: SPST, 3 amps at 125 VAC.
R2	3R77P362J	Composition: 3600 ohms ±5%, 1/2 w.
R3	7147161 P42	Composition: 8.2 ohms ±5%, 1/2 w.
		SWITCHES
S1		(Part of R1).
Wl		CABLE ASSEMBLY 19B216886G3
J2		Includes:
	2R22P3	Connector: 1 contact. Signal Corps SO-239 or sim to Amphenol 83-1R.
	19B204398P2	Can.
	19A121436P1	Cap.
	19B201074P206	Tap screw: 4-40 x 3/8.
W 2	19A128036G1	RF: approx 20 inches long. Includes (P2).
	104116406 70	MISCELLANEOUS
	19A116496P2 4029851P4	Cable clip. (Used with Pl). Cable clip. (Used with Pl and W2).
	19A116552P1	Cable clip. (Used with W2).
	5491419 P 3	Strain relief: sim to Heyco SR-5P-1. (Used with Power cable).
	19Al16417Pl	Bumper, plastic. (Quantity 4).
	19A116296P1	Knob, push on. (Used with R1).
	5490407 P2	Grommet, rubber. (Used with Pl cable).
	19B201074P204	Tap screw: 4-40 x 1/4.
	4036555Pl 4035439Pl	Insulator, washer: nylon. (Used with Ql). Heat sink. (Used with Ql).
	i	
	1	
	1	·
	1	

*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES

DESCRIPTION
RESISTORS
3600 ohms ±5%, 1/2 w. 8.2 ohms ±5%, 1/2 w.
SWITCHES
CABLE ASSEMBLY 19B216886G3
l contact. Signal Corps SO-239 or nol 83-1R.
4-40 x 3/8. 20 inches long, Includes (P2).
MISCELLANEOUS (Used with Pl).
(Used with Pl and W2). (Used with W2).
f: sim to Heyco SR-5P-1. (Used able).
tic. (Quantity 4).
n. (Used with R1). ber. (Used with Pl cable).
4-40 x 1/4.
asher: nylon. (Used with Q1). (Used with Q1).

ORDERING SERVICE PARTS

Each component appearing on the schematic diagram is identified by a symbol number to simplify locating it in the parts list. Each component is listed by symbol number, followed by its description and GE Part Number.

Service parts may be obtained from Authorized GE Communication Equipment Service Stations or through any GE Radio Communication Equipment Sales Office. When ordering a part, be sure to give:

- GE Part Number for component
 Description of part
 Model number of equipment

- 4. Revision letter stamped on unit

These instructions do not purport to cover all details in variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance.

Should further information be desired, or should particular problems arise which are not covered sufficiently for the purchaser's purposes, contact the nearest Radio Communication Equipment Sales Office of the General Electric Company. LBI-4228

MOBILE RADIO DEPARTMENT
GENERAL ELECTRIC COMPANY ● LYNCHBURG, VIRGINIA 24502

