Customer	
G. E. Req. No	
Customer Order No	

### **INSTRUCTIONS**

for

## SELECTIVE CALL SELECTOR MODEL 4EC41A1

### OPTIONS 4081-4088

LBI-10179C

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Wiring Diagram D-5499589

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See Back of RC-764

Parts List (PL-4036391-G1) Horn Modification Kit

See Back of 19B200357



LYNCHBURG, VIRGINIA

# EQUIPMENT INDEX

Option Number	Equipment	G-E Part No.
4081-4088	Selector Assembly	19C300250-G1
4081-4088	Tone Detector (Reed)	5495846-*
4081-4088	Call Indicator Head	5491895-G2
4081-4088	TPL Tone Modification Kit	4033533-G1
4083-4084 4087-4088	Horn Modification Kit	4036391-G1
4081-4088	Interconnection Cable	5496847-G1
4085-4088	Split Mount Extension Cable	19B200486-G1
	* Group Number determined by frequency specified (must be coordinated with Dispatcher).	

## INSTRUCTIONS FOR SELECTIVE CALL SELECTOR MODEL 4EC41A1 OPTIONS 4081-4088

The Model 4EC41Al Selector is designed for operation with General Electric Transistorized Progress Line mobile units in selective call applications. The selector, in conjunction with the TPL equipment, functions as part of a system consisting of a base station equipped with a General Electric Selective Call Dispatcher and a number of mobiles operating on the same radio frequency. The dispatcher at the base station generates two audio tones that modulate the station transmitter. The mobile unit with a selector tuned to the tone frequencies transmitted responds either to two sequential or two simultaneous tones by unmuting the mobile speaker and turning on an indicating device (or operating an external lamp or horn if provided). The base station operator can then talk with the mobile selected.

#### SPECIFICATIONS

Signal Input Level 50 to 200 millivolts

Input Power 12 volt battery (13.2)

volts ±20%)

Standby Current 20 ma max.

Operate Current 180 ma max.

Ambient Temperature  $-30^{\circ}$ C to  $+60^{\circ}$ C

#### INSTALLATION

The 4EC41Al Selector is mounted in the 5498341-Pl Option Case which is sandwiched between the front and rear units of the TPL assembly. A Call Indicator (PL-5491895-Gl) is mounted under the front panel of the TPL control unit or to the underside of the Model 4EC45AlO Control Unit in rear mount installations (Options 4085-4088). The call indicator contains a call lamp and a function control switch to permit selecting an external lamp or horn if provided.

An Interconnection Cable (PL-5496847-G1) connects to the printed board of the selector by means of slip-on connectors fitting over "bead-chain" pins on the board. The cable has two plugs on the opposite end for connection to the TPL unit and the call indicator. A special extension cable (PL-19B200486-G1) is required for splitmount applications.

Installation Diagram RC-736 provides instructions for field installation of the selector and its associated equipment. Instructions are also provided on RC-736 for installing the TPL Modification Kit A-4033533-Gl. RC-737 shows the application of the selector

and call indicator to TPL Split-Mount installations.

No adjustments are required on the selector unit. The input signal from the TPL receiver is too strong when the selector is used in wide band applications; therefore, a resistor (R1714) is provided in the input circuit to limit the signal. A jumper is connected across the resistor in narrow band applications.

### **OPERATION**

- 1. The base station operator initiates a radio frequency signal modulated by two audio tones. When simultaneous signaling is used, the two tones are transmitted for one second; when signaling is used, each tone is transmitted for one second for a total signaling period of two seconds.
- 2. The mobile unit with its selector tuned to these tones responds by unmuting the mobile speaker and turning on the call indicator lamp. If the call indicator switch is in the HORN position, and the external horn option is used, the horn is energized for approximately 4 seconds. If the external lamp option is used, the external lamp will be turned on when the switch is in the LAMP position. The call indicator lamp (an external lamp, if used) will remain on until the mobile operator removes the microphone from the hang-up bracket and presses the pushto-talk button.
- 3. Upon completion of the call, the mobile operator replaces the microphone on the hang-up bracket, muting the speaker and preparing the mobile unit for the next call.

#### CIRCUIT DESCRIPTION

Audio from the mobile receiver discriminator is passed through J1701 to the audio amplifier circuit in the selector. This circuit consists of Q1701, Q1702 and Q1703. The amplifier audio is then applied across the four electromechanical (reed) detectors: FL1701, FL1702, FL1703 and FL1704. The two reeds that are resonant to the two tone signals present in the audio signal will respond and close their contacts. Two of the reeds (FL1701 and FL1702) may be used for individual call and the other two (FL1703 and FL1704) for group call. The contacts of FL1701 and FL1702 are tied together and thus select the associated integrating circuit. A DC voltage is accumulated across this circuit which triggers the DC amplifier (Q1704 and Q1705). The collector of Q1705 is connected to the keyed-battery voltage in the TPL transmitter through J1707. This keyed voltage is also connected across relay K1701 which locks up when Q1701 conducts due to the DC voltage from the integrator circuit.

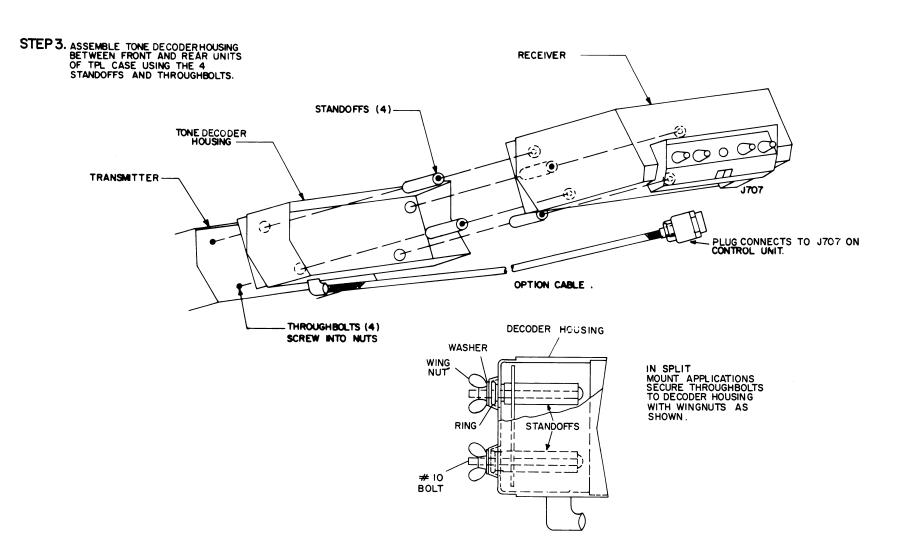
In the event group call tones are received, reeds FL1704 and FL1703 respond and select the associated integrating circuit. The resulting DC voltage is amplified and operates K1701 in the same manner as the individual call tones.

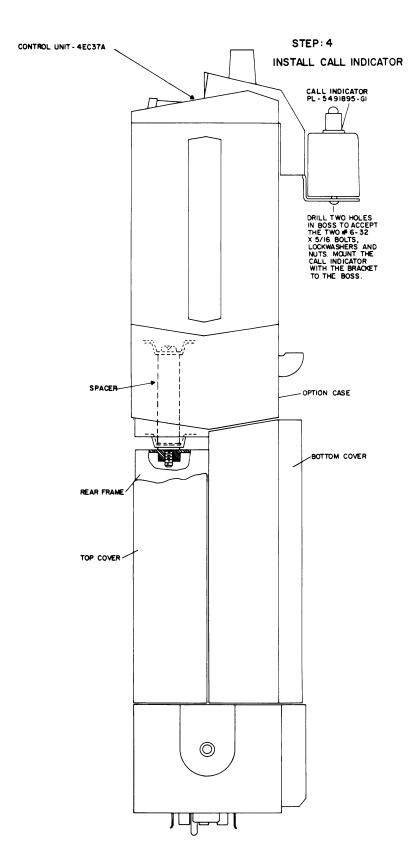
If the horn option is used, relay K1702 initially picks up through C1709 which is normally discharged by R1722. When K1702 picks up, C1710 (which has been charged to the battery voltage through K1702-5 and 6) is discharged through relay K1702 and, after 4 seconds, the relay drops out. The residual current through R1722 is insufficient to hold the relay closed. Contacts 9 and 10 of K1702 close the external circuit which energizes the horn.

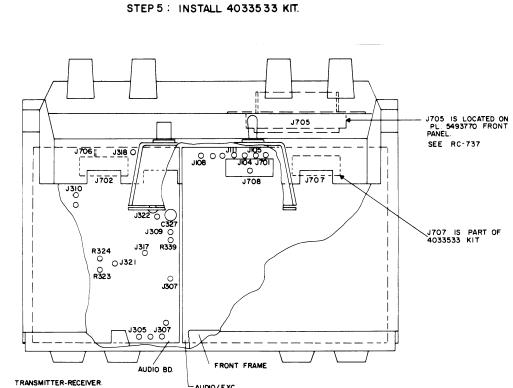
All other functions remain locked in until the microphone is lifted off the hang-up bracket and the push-to-talk switch is operated. This unlocks K1701. All circuits return to normal. However, the speaker remains unmuted since the microphone is off hook, and mutes only when the microphone is returned to the hang-up bracket.

The normal arrangement described above permits individual call and group call assignments only. Provision is made for easily altering the circuit to provide individual call, group call and all call. However, this arrangement limits the number of group call assignments to 9, and individual call assignments to 9 per group. This circuit alteration is accomplished by moving P1701 from J1713 to J1714.

When using the arrangement outlined above, FL1701 responds first on individual calls and then triggers FL1702. When group calls are received, FL1704 responds first, then FL1703. During all call, FL1704 responds and then FL1702.



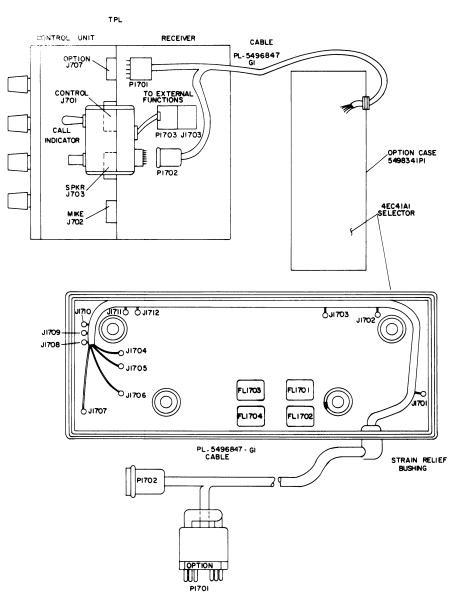




- I. INSTALL A-4033533 KIT AS OUTLINED IN TABLE.
- IF R339 IS PRESENT ON 4EAIOAIO CHANGE TO IOOO OHM RESISTOR PROVIDED IN KIT.
- REMOVE WIRE BETWEEN J702-6 AND J703-6 IN CONTROL IF PRESENT.

IN CONTROL IF PRESENT.					
INSTALLATION OF		33533 MODIFIC			
OPERATION	WIRED FROM	WIRE DESIGN	PLUG OR JACK	ON UNIT	
CONNECT P714	J707-I	F24 O-R TO	J706	CONTROL	
CONNECT P715	J707-2	F24 BK-BL TO	J318		
CONNECT P725		F24 O-G TO	J322	AUDIO BD	
CONNECT P726		F24 O-BL TO	J321		
CONNECT P717	J707-4	F24 BR-G TO	JI048JI08	AUDIO/EXC	
DISCONNECT P707		F24 BL FROM	J3O5		
CONNECT P719	J707-5	F24 BR-BL TO	J305	AUDIO BD	
CONNECT P720	J707-6	F24 R-G TO	P707	CONTROL	
DISCONNECT P705		F24 O-BK FROM	J307		
CONNECT P72I	J707-7	F24 O-BK TO	J307	AUDIO BD	
CONNECT P705		F24 O-BK TO	P72I	CONTROL	
CONNECT P722	J707-8	F24 0 T0	J708	CONTROL	
DISCONNECT P702		RG 174/U FROM	J105		
CONNECT P723	J707 <del>-9</del>	F24 BK TO	JĮ05	AUDIO EXC	
CONNECT P702		RG 174/U TO	P723	CONTROL	
DISCONNECT P704		BK-BR FROM	J310	CONTROL	
CONNECT P724	J707-10	BK-BR TO	J310	AUDIO BOARD	
CONNECT P704		BK-BR TO	P724	AUDIO BOARD	

## STEP 6: INSTALL 5496847 CABLE



WIRE COLOR	TO JACK NO	
G - BL	J1701	
0 - BK	J1702	
ВК	J1703	
BK-G	J1712	Ī
0	J1711	
O-BL	J1710	
BR	J1709	
BK-BL	J1708	
0- G	J1704	
R- BL	J1705	
BK - BR	J1706	
BK-R	JI 707	

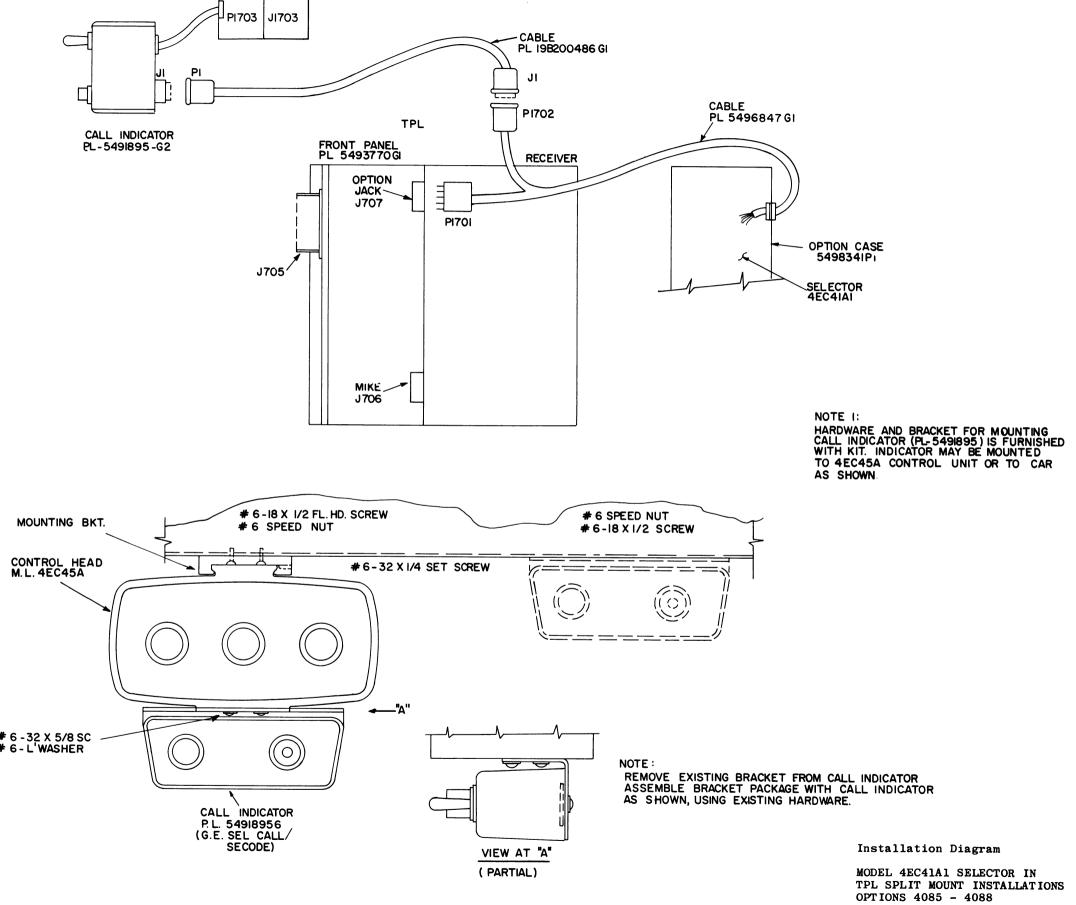
SOCKET XFLI7OI IS FOR IST DIGIT OF INDIVIDUAL CALL SOCKET XFLI7O2 IS FOR 2ND DIGIT OF INDIVIDUAL CALL SOCKET XFLI7O3 IS FOR 2ND DIGIT OF ALL & GROUP-CALL SOCKET XFLI7O4 IS FOR IST DIGIT OF ALL & GROUP-CALL

Installation Diagram

MODEL 4EC41A1 SELECTOR IN TPL FRONT MOUNT INSTALLATIONS OPTIONS 4081 - 4084

(RC-736D)





(RC-737C)

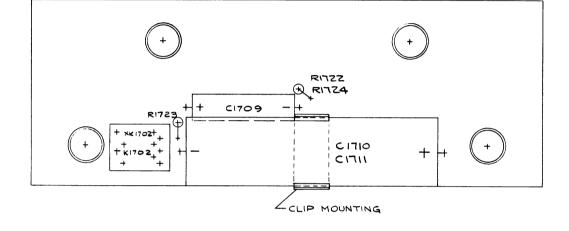
LBI-10320

### PARTS LIST

CABLE ASSEMBLY PL-19B200486-G1

	SYMBOL	G-E PART NO.	DESCRIPTION
	J1	7768887-P16	JACKS AND RECEPTACLES 7 pin min, mica-filled phenolic, without mtg saddle; sim to Elco 241 PH-3702.
	P1	5491563-P1	7 pin: Phenolic; sim to Methode Mfg M850.
		7160478-P6	MISCELLANEOUS
Ļ			

\*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES.



- 1. MOUNT CLIP IN BOARD IN POSITION
  AS SHOWN.
  - 2. INSERT R1722, R1723, C1709 & C1710 FROM HORN MODIFICATION KIT PLA 4036391G1 INTO BOARD AS SHOWN.
  - 3. SOLDER ALL ELECTRICAL CONNECTIONS.
  - 4. INSERT RELAY KITOZ FROM KIT INTO SOCKET XKITOZ, FASTEN IN PLACE WITH RETAINING SPRING PT I OF MODIFICATION KIT A4036391

LBI-10342

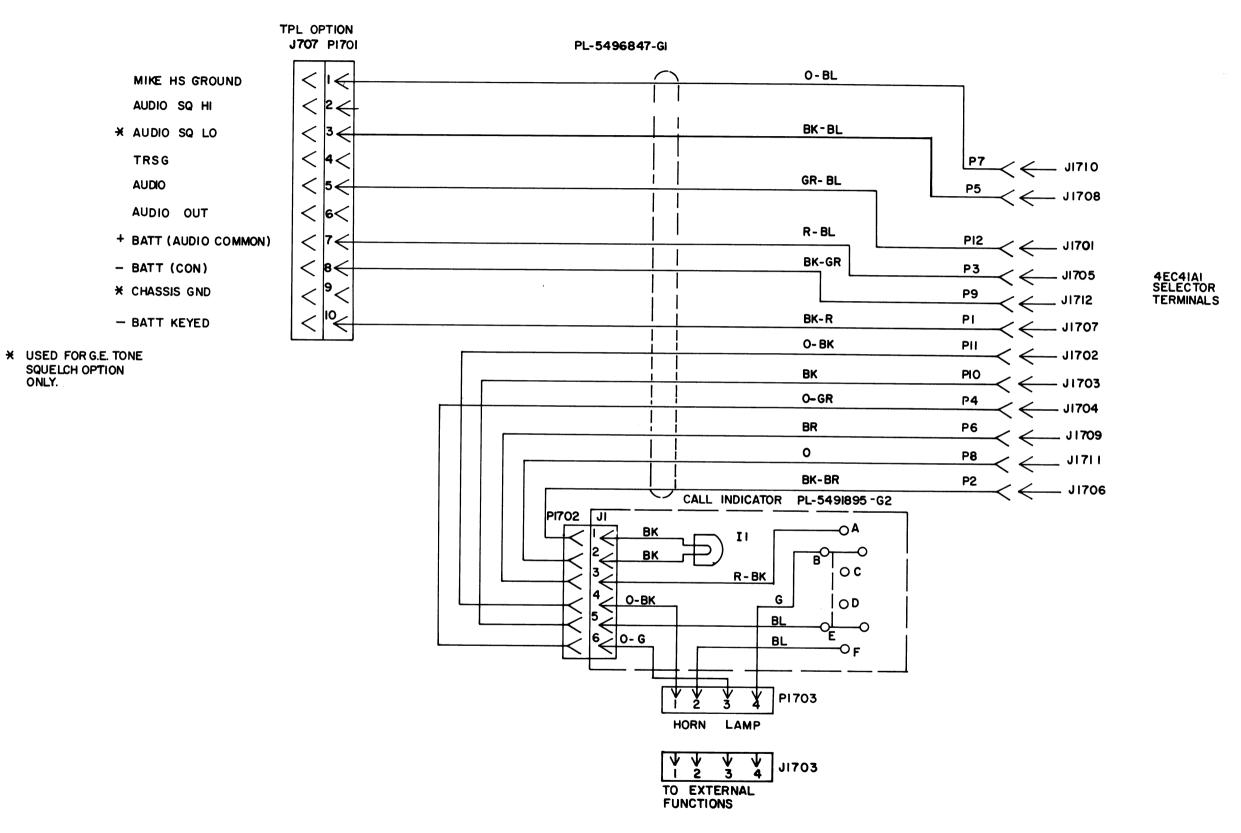
#### **PARTS LIST**

HORN MODIFICATION KIT PL-4036391-G1

SYMBOL	G-E PART NO.	DESCRIPTION
		CAPACITORS
C1709	7489483-P20	Electrolytic tubular: 200 uf +100% -10%, 15 VDCW Sim to Sprague 30D174A1.
C1710	5493132-P2	Electrolytic tubular:2000 uf +60% -0%, 15 VDCW.
C1711	5493132-P1	Electrolytic tubular: 1000 uf +250% -15%, 35 VDC Sim to G-E 43F2066AA1.
		RELAYS
K1702	5491595-P12	1.5 w at 26°C, 520 ohms ±15% at 25°C, 2 form C contacts; Sim to Allied Control T154-C-C.
		RESISTORS
R1722	3R77-P513K	Fixed composition: 51,000 ohms $\pm 10\%$ , $1/2$ w.
R1723 and R1724	3R77-P271K	Fixed composition: 270 ohms $\pm 10\%$ , $1/2$ w.

<sup>\*</sup>COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES.





LBI-10319

#### PARTS LIST

CALL INDICATOR HEAD
PL-5491895-Gl and-G2

SYMBOL	G-E PART NO.	DESCRIPTION
*1	5491892-P1	INDICATING DEVICES
11	5491892-P1	Indicator, incandescent: 24 v, red lens, 2 wire leads; sim to Industrial Devices Series 1000.
		JACKS AND RECEPTACLES
J1 J1703		(Used in PL-4034030-Gl and G2 only). (Used in PL-19B201254-Gl only).
01100		
P1703		
S1	5491875-P1	Toggle: DPDT, 3 pos center off, 10 amps at 250 vac and 15 amps at 125 vac or 3/4 hp at 115 to vac; sim to Cutler Hammer 7563K5.
		BRACKET ASSEMBLY PL-4034030-G1 and G2
		JACKS AND RECEPTACLES
<b>J</b> 1	5491563-P1	7 pin, phenolic; sim to Methode Mfg M850. (Pin numbers molded counter-clockwise).
		MISCELLANEOUS
	5491891-P1	Bracket: Steel. (Used in Gl only).
	5491891-P2	Bracket: Steel, (Used in G2 only),
		CABLE ASSEMBLY PL-19B201254-G1
J1703	5492497-P24	Connector: 4 way; sim to Amp 480134-1.
P1703	5492497-P14	Connector: 4 way; sim to Amp 480135-1.
		MISCELLANEOUS
	5492497-P1	Contact: Brass; sim to Amp 42485-1.
	İ	

\*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES.

### TYPICAL VOLTAGE AND RESISTANCE READINGS

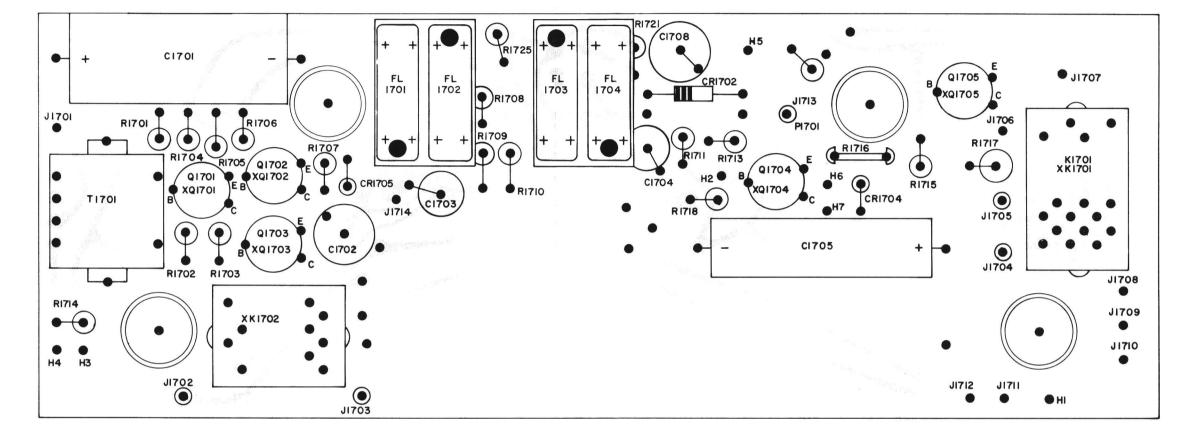
TABLE 1: VOLTAGE

CONDITIONS OF MEASUREMENTS: No Tone; No Carrier; FM Noise at Decoder Input.	Carrier with Pulsed Tone; Reset Relay Each Time it Locks In.
Q1701-E: 0.75 volts  B: 0.75 volts  C: 4.4 volts	These readings vary slightly when tone is received.
Q1702-E: 0.77 volts  B: 0.75 volts  C: 4.4 volts	These readings vary slightly when tone is received.
Q1703-E: 6.1 volts B: 4.4 volts C: 9.4 volts	4.9 volts, increases to 6.4 v. with tone. 4.6 volts, decreases to 4.5 v. with tone. 9.4 volts, decreases slightly with tone.
Q1704-E: 8.8 volts  B: 8.6 volts  C: 0 volts	8.8 volts, decreases to 8.0 v. with tone. 8.6 volts, decreases to 7.7 v. with tone. 0 volts, increases to 8.0 v. with tone.
Q1705-E: 0 volts  B: 0 volts  C: 13.6 volts	0 volts, increases to 8.0 v. with tone; locks in at 6.0 volts. 0 volts, increases to 8.3 v. with tone; drops back to 0 volts.  13.6 volts, drops to 12.2 volts when relay locks in.

TABLE 2: RESISTANCE

CONDITIONS OF MEASUREMENTS: Resistance Readings Taken with Transistors Removed and with Unit Disconnected From TPL. All Readings Taken with 20,000 Ohms-Per-Volt Meter. All Readings Taken from COMMON (+).								
Q1701-E:	11.2K	ohms	Q1703-E:	1800	ohms	Q1705-E:	90	ohms
В:	3300	ohms	В:	20K	ohms	В:	1500	ohms
C:	20K	ohms	C:	5200	ohms	C:	Infir	nite.
Q1702-E:	2K	ohms	Q1704-E:	*				
В:	11.2K	ohms	В:	36K	ohms			
C:	20K	ohms	C:	1500	ohms			

\* This Reading Varies Depending On Ohmmeter Battery Condition.



(19C300872, Rev. 2) (19C300233, Rev. 2)

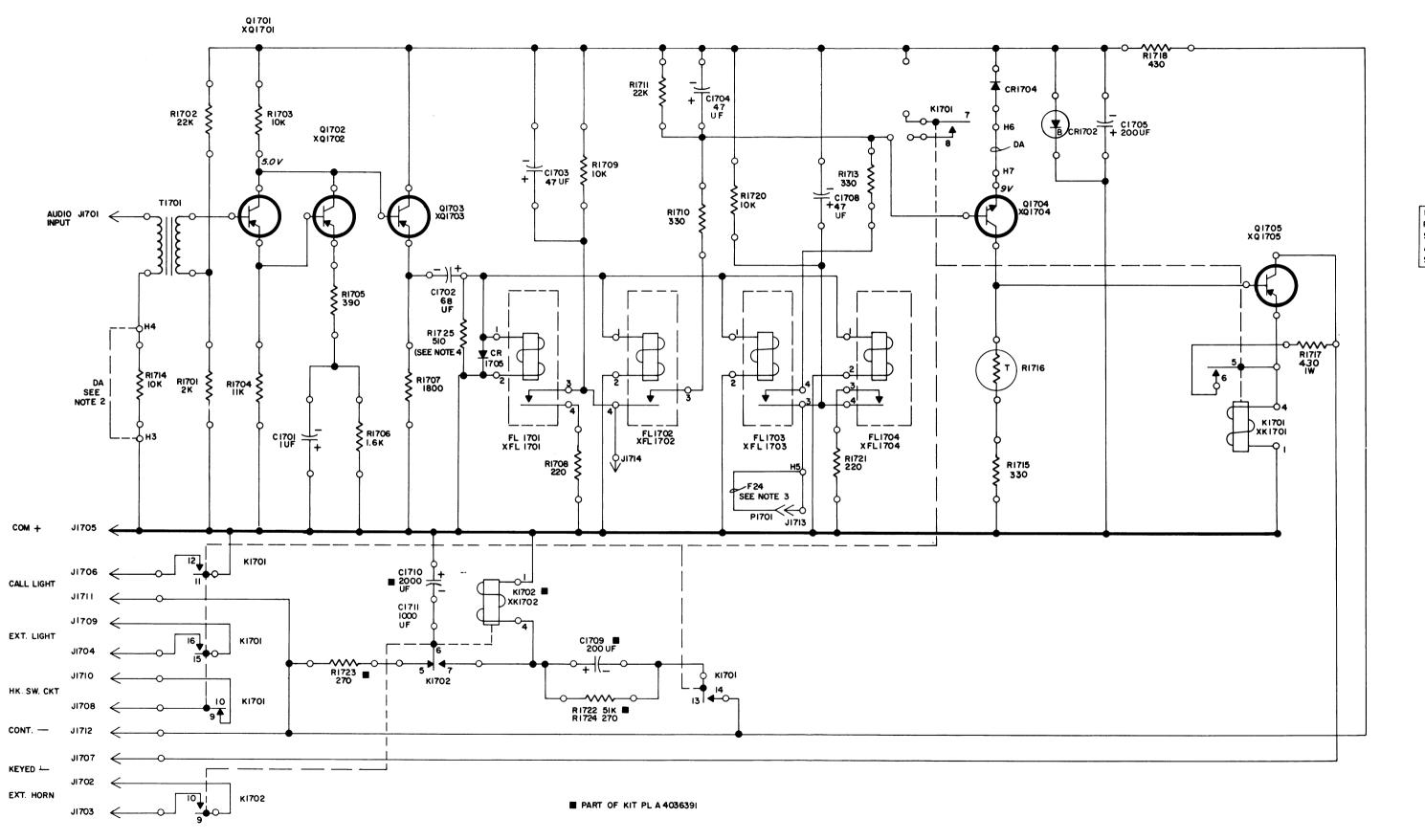
Denotes Solder Side

SEE	WIRING DI	AGRAM FOR	
THE	FOLLOWING	CONNECTIONS	
FR	OM	то	
F	16	H7	
F	13	H4	
н	15	LET HANG	

Service Outline

TONE SELECTOR MODEL 4EC41A1

(RC-765B)



NOTES:

- I. ALL CIRCUIT PRINTED WIRING EXCEPT AS SHOWN.
- 2. OMIT THIS JUMPER FOR WIDE BAND APPLICATIONS.
- 3. FOR BOTH ALL CALL & GROUP CALL MOVE PI701 FROM JI713 TO JI714.
  4. CLIP OUT RI725 IF ALL FOUR DETECTORS ARE USED.

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.

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 DESCRIPTION OF CHANGES UNDER EACH REVISION LETTER. THIS ELEM DIAG APPLIES TO MODEL NO REV LETTER 4EC4IAI

Wiring Diagram

TONE SELECTOR MODEL 4EC41A1; REV. E

(D-5499589, Rev. 9)

LBI-10315C

#### PARTS LIST

SYMBOL G-E PART NO

4033513-P4

4033513-P4

5491595-P18

4029840-P1

19B200061-P4

5492639-P2

4037145-P2

3R77-P202J

3R77-P223J

3R77-P103J

3R77-P113J

3R77-P391J

3R77-P162J

3R77-P182J 3R77-P102J

3R77-P221K 3R77-P431K

3R77-P103K

3R77-P331J 3R77-P102J

3R77-P223J

3R77-P221K

3R77-P331J 3R77-P333J

3R77-P103K

3R77-P331J

5490828-P21

3R78-P431J

3R78-P910K

3R77-P431J

3R77-P103J 3R77-P752J

3R77-P221J

3R77-P431J

3R77-P202J

J1701 thru J1712

J1713\* and J1714\*

K1701

K1702

P1701\*

Q1701 thru Q1703

Q1704

Q1705

R1701

R1702

R1703

R1704

R1705

R1706

R1707\*

R1708\*

R1709

R1710\*

R1711

R1712\*

R1713\*

R1714

R1715\*

R1716

R1717\*

R1718

R1720\*

R1721\*

# SELECTIVE CALL SELECTOR MODEL 4EC41A1 PL-19C300250-G2 REV. E

YMBOL	G-E PART NO.	DESCRIPTION
P1701		(Used in PL-5496847-Gl only).
and P1702		
		SELECTOR PL-19C300232-G1
C1701	7491930-P13	Mylare, tubular: 1 $\mu$ f $\pm 20\%$ , 100 VDCW; sim to Good-All 663-UW.
C1702*	5496267-P11	Fixed tantalum: Dry solid, 68 μf ±20%, 15 VDC sim to Sprague 150D686X0015R2.
	5495670-P10	In Models of Rev A or earlier: Electrolytic tubular: Vertical mount, 100 µf +100% -10%, 15 VDCW; sim to Sprague 30D172Al.
C1703*	5496267-P15	Fixed tantalum: Dry solid, 47 µf ±20%, 20 VDC sim to Sprague 150D476X0020R2.
	7489483-P5	In Models of Rev A or earlier: Electrolytic tubular: 10 µf +100% -10%, 15 VDC sim to Sprague 30D165Al.
C1704	5496267-P15	Fixed tantalum: Dry solid, 47 µf ±20%, 20 VDC sim to Sprague 150D476X0020R2.
C1705*	7489483-P20	Electrolytic tubular: 200 µf +100% -10%, 15 VD sim to Sprague 30D174Al. (Added by Rev A).
C1706* and	5495670-P10	Electrolytic tubular: Vertical mount, 100 µf +100% -10%, 15 VDCW; sim to Sprague 30D172A1.
C1707* C1708*	5496267-P15	(Deleted by Rev A). Fixed tantalum: Dry solid, 47 µf ±20%, 20 VDC
	5495670-P8	<pre>sim to Sprague 150D476X0020R2. In Models of Rev A or erarlier: Electrolytic tubular: Vertical mount. 10 uf +1</pre>
	7489483-P5	-10%, 15 VDCW; sim to Sprague 30D165A1. In Models earlier than Rev A: Electrolytic tubular: 10 µf +100% -10%, 15 VDC
C1709		sim to Sprague 30D165Al. (Used in PL-4036391-Gl only).
thru C1711		(Used in PL-4030391-01 Unity).
		RECTIFIERS
CR1701*	5491705-P2	Silicon. (Deleted by Rev A).
CR1702	4036392-P2	Silicon, Zener®.
CR1703*	5491705-P2	Silicon. (Deleted by Rev A).
CR1704	5491705-P2	Silicon.
CR1705*	5491705-P2	Silicon. (Added by Rev A).
FL1701		
thru FL1704		PL-19C300580
FL1704		Electromechanical resonant subassembly. Group No. determined by multiplying the frequency marked on the can x 10. Example: 517.5 x 10 equal: Group No. 5175. (Must be coordinated with Dispatcher).
		517.5 cps PL-19C300580-G517
	]	532.5 cps PL-19C300580-G532 547.5 cps PL-19C300580-G547
		562.5 cps PL-19C300580-C562 577.5 cps PL-19C300580-G577
		592.5 cps PL-19C300580-G592
	<u> </u>	607.5 cps PL-19C300580-G607 622.5 cps PL-19C300580-G622
	]	637.5 cps PL-19C300580-G637 652.5 cps PL-19C300580-G652
		667.5 cps PL-19C300580-G667 682.5 cps PL-19C300580-G682
	1	697.5 cps PL-19C300580-G697 712.5 cps PL-19C300580-G697
		727.5 cps PL-19C300580-G727
		742.5 cps PL-19C300580-G742 757.5 cps PL-19C300580-G757
		772.5 cps PL-19C300580-G772 787.5 cps PL-19C300580-G787
	1	

### MAINS (Cost's)		DESCRIPTION	SYMBOL	G-E PART NO	DESCRIPTION
### 125 psp		REEDS(Cont'd)			RESISTORS(Cont'd)
BECT   Space   This (Concessor Action   Decision   De		817.5 cps PL-19C300580-G8175 832.5 cps PL-19C300580-G8325	thru		(Used in PL-4036391-G1 only).
202.3 cpc		862.5 cps PL-19C300580-G8625 877.5 cps PL-19C300580-G8775 892.5 cps PL-19C300580-G8925	R1725*	3R77-P511J	Fixed composition: 510 ohms $\pm 5\%$ , $1/2$ w. (Added by Rev A).
Pick   Speak		922.5 cps PL-19C300580-G9225 937.5 cps PL-19C300580-G9375 952.5 cps PL-19C300580-G9525	T1701	5490525-P2	ì
Chain 183-3.  Ph. contact: Even; cad. plated; sin to Bead Chain 183-3.  (Added by New A).  1.5 v at 28°C, 90 ches 155 at 20°C, 5 form A THITO'S Selected with the selection of t		-			Pri: 35,000 ohms ±10% Sec 1: 2000 ohms ±3%
Plan, contact: Brame, end, plated; sim to Beed Chain 183-3. (Added by Rev A).  The state of the		Pin, contact: Brass, cad. plated; sim to Bead	1		
ANIPOL See1885-P7  Balay: Nylon, 10 contacts, for printed wiring board; size to Allied Contact and Tack Alarm & contacts and to Allied Control Tack Alarm & control Tack Alarm & contacts and to Allied Control Tack Alarm & cont		Pin, contact: Brass, cad, plated; sim to Bead	thru	4035441-G1	Reed socket asm. Includes 4 contacts, sub-mini. Deleted by Rev. E.
1.4			XK1701	5491595-P7	Relay: Nylon, 10 contacts, for printed wiring board; sim to Allied Control 30054-4.
And   Town B contacts; size to Alised Control   Tide-AlaA-Mail			XK1702	5491595-P6	Relay: Nylon, 10 contacts, for printed wiring board: sim to Allied Control 30054-3.
Torninal: Taper pin connector; sim to Amp 41854   Transition: Toper pin connector; sim to Amp 41854   Transition: Transition		and 1 form B contacts; sim to Allied Control	thru	5490277-P2	Transistor: 4-contacts, low-loss mica-filled
Torrinal: Taper pin connector; sim to Amp 41834 or Kent 123946, [Added by Rev A].		·	V-61.109		
Germanium, PNP.  Germanium, NPN.  Germanium, NPN.  Germanium, NPN.  Germanium, PNP.  TRANSISTORS RESISTORS RESISTORS RESISTORS	I	Terminal: Taper pin connector: sim to Amp 41854	ļ		
Description					
Germanium, NPN. Germanium, NPN. Germanium, NPN. Germanium, NPN.  1768887-P17  1768887-P17  1768887-P17  1768887-P17  179 in sin, sica-filled phenolid, without mig saddle and center shield; sin to Elco 241 PM-3702.  17 ju sin, sica-filled phenolid, without mig saddle and center shield; sin to Elco 241 PM-3702.  17884 composition: 2000 ohms 155, 1/2 w.  17884 composition: 10,000 ohms 155, 1/2 w.  17884 composition: 10,000 ohms 155, 1/2 w.  17884 composition: 1800 ohms 155, 1/2 w.  17884 composition: 1800 ohms 155, 1/2 w.  17884 composition: 1000 ohms 155, 1/2 w.  17884 composition: 1000 ohms 105, 1/2 w.  17884 composition: 1000 ohms 105, 1/2 w.  17884 composition: 1000 ohms 105, 1/2 w.  17884 composition: 2000 ohms 155, 1/2 w.  17884 composition: 2000 ohms 155, 1/2 w.  17884 composition: 220 ohms 105, 1/2 w.  17884 composition: 220 ohms 105, 1/2 w.  17884 composition: 230 ohms 155, 1/2 w.  17884 composition: 330 ohms 155, 1/2 w.  17884 composition: 330 ohms 155, 1/2 w.  17884 composition: 300 ohms 155, 1/2 w.  1788887-P17  17884 composition: 1000 ohms 105, 1/2 w.  17884 composition: 2000 ohms 155, 1/2 w.  17884 composition: 300	ı	į.			
Germanium, PMP.	١		P1701	5495345-P11	10 male contacts, phenolic; sim to Component Mfg 6601-M10.
Fixed composition: 220 ohms 158, 1/2 w. Fixed composition: 10,000 ohms 158, 1/2 w. Fixed composition: 11,000 ohms 158, 1/2 w. Fixed composition: 10,000 ohms 158, 1/2 w. Fixed composition: 1800 ohms 158, 1/2 w. Fixed composition: 220 ohms 158, 1/2 w. Fixed composition: 320 ohms 158, 1/2 w. Fixed composition: 330 ohms 158, 1/2 w. Fixed composition: 330 ohms 158, 1/2 w. Fixed composition: 220 ohms 158, 1/2 w. Fixed composition: 230 ohms 158, 1/2 w. Fixed composition: 230 ohms 158, 1/2 w. Fixed composition: 230 ohms 158, 1/2 w. Fixed composition: 330 ohms 158, 1/2 w. Fixed composition: 10,000 ohms 158, 1/2 w. Fixed composition: 430 ohms 158, 1/2 w. Fixed composition: 300 ohms 158, 1/2 w.	ĺ		P1702	7768887- <b>P</b> 17	7 pin min, mica-filled phenolic, without mtg saddle and center shield; sim to Elco 241 PH-3702.
Fixed composition: 2000 ohms ±5%, 1/2 w.  Fixed composition: 10,000 ohms ±5%, 1/2 w.  Fixed composition: 11,000 ohms ±5%, 1/2 w.  Fixed composition: 390 ohms ±5%, 1/2 w.  Fixed composition: 1800 ohms ±5%, 1/2 w.  Fixed composition: 1800 ohms ±5%, 1/2 w.  Fixed composition: 1800 ohms ±5%, 1/2 w.  Fixed composition: 220 ohms ±5%, 1/2 w.  Fixed composition: 220 ohms ±10%, 1/2 w.  Fixed composition: 220 ohms ±10%, 1/2 w.  Fixed composition: 220 ohms ±10%, 1/2 w.  Fixed composition: 10,000 ohms ±10%, 1/2 w.  Fixed composition: 20 ohms ±10%, 1/2 w.  Fixed composition: 20 ohms ±5%, 1/2 w.  Fixed composition: 22 ohms ±10%, 1/2 w.  Fixed composition: 22 ohms ±10%, 1/2 w.  Fixed composition: 22 ohms ±10%, 1/2 w.  Fixed composition: 30 ohms ±5%, 1/2 w.  Thermistor, rod: 1250 ohms ±10% at 25°C, temp coef 3000 ±5%; sin to Globar 492H-11.  Fixed composition: 420 ohms ±5%, 1/2 w.  Thermistor, rod: 1250 ohms ±5%, 1/2 w.  Thermistor, rod: 1250 ohms ±5%, 1/2 w.  Fixed composition: 400 ohms ±5%, 1/2 w.  Fixed composition: 200 ohms ±5%, 1/2 w.  Fixed composition: 400 ohms ±5%, 1/2 w.  Fixed composition: 400 ohms ±5%, 1/2 w.  Fixed composition: 400 ohms		RESISTORS		4029840-P1	
Fixed composition: 10,000 ohms ±5%, 1/2 w.  Fixed composition: 390 ohms ±5%, 1/2 w.  Fixed composition: 1600 ohms ±5%, 1/2 w.  Fixed composition: 1800 ohms ±5%, 1/2 w.  Fixed composition: 1800 ohms ±5%, 1/2 w.  In Models earlier than Rev A:  Fixed composition: 220 ohms ±10%, 1/2 w.  Fixed composition: 200 ohms ±5%, 1/2 w.  Fixed composition: 300 ohms ±10%, 1/2 w.  Fixed composition: 300 ohms ±10%, 1/2 w.  Fixed composition: 300 ohms ±5%, 1/2 w.  In Models earlier than Rev A:  Fixed composition: 220 ohms ±10%, 1/2 w.  Fixed composition: 220 ohms ±5%, 1/2 w.  Fixed composition: 220 ohms ±5%, 1/2 w.  Fixed composition: 220 ohms ±5%, 1/2 w.  Fixed composition: 330 ohms ±5%, 1/2 w.  Fixed composition: 300 ohms ±5%, 1/2 w.  Fixed composition: 300 ohms ±5%, 1/2 w.  Fixed composition: 10,000 ohms ±0%, 1/2 w.  Thermistor, rod: 1250 ohms ±10%, 1 w.  Fixed composition: 430 ohms ±5%, 1/2 w.  Thermistor, rod: 1250 ohms ±10%, 1 w.  Fixed composition: 430 ohms ±5%, 1/2 w.  Fixed composition: 200 ohms ±6%, 1/2 w.	ı	Fixed composition: 2000 ohms ±5%, 1/2 w.		102010-11	or Kent 123946.
Fixed composition: 11,000 ohms ±5%, 1/2 w.  Fixed composition: 1800 ohms ±5%, 1/2 w.  Fixed composition: 1800 ohms ±5%, 1/2 w.  In Models earlier than Rev A:  Fixed composition: 1000 ohms ±5%, 1/2 w.  Fixed composition: 1000 ohms ±5%, 1/2 w.  Fixed composition: 220 ohms ±10%, 1/2 w.  Fixed composition: 220 ohms ±10%, 1/2 w.  Fixed composition: 330 ohms ±10%, 1/2 w.  Fixed composition: 330 ohms ±5%, 1/2 w.  Fixed composition: 10,000 ohms ±10%, 1/2 w.  Fixed composition: 220 ohms ±10%, 1/2 w.  Fixed composition: 220 ohms ±5%, 1/2 w.  In Models earlier than Rev A:  Fixed composition: 330 ohms ±5%, 1/2 w.  Fixed composition: 330 ohms ±5%, 1/2 w.  Fixed composition: 10,000 ohms ±10%, 1/2 w.  Fixed composition: 330 ohms ±5%, 1/2 w.  Fixed composition: 2000 ohms ±5%, 1/2 w.  Fixed composition: 2000 ohms ±5%, 1/2 w.  Fixed composition: 2000 ohms ±5%, 1/2 w.  Fixed composition: 30 ohms ±5%, 1/2 w.  Fixed composition: 30 ohms ±5%, 1/2 w.  Fixed composition: 430 ohms ±5%, 1/2 w.  Fixed composition: 430 ohms ±5%, 1/2 w.  Fixed composition: 430 ohms ±5%, 1/2 w.  Fixed composition: 30 ohms ±5%, 1/2 w.  Fixed composition: 10,000 ohms ±5%, 1/2 w.  Fixed composition: 200 ohms ±6%, 1/	I	Fixed composition: 22,000 ohms ±5%, 1/2 w.			
Fixed composition: 390 ohms ±5%, 1/2 w.  Fixed composition: 1600 ohms ±5%, 1/2 w.  Fixed composition: 1800 ohms ±5%, 1/2 w.  In Models earlier than Rev A:  Fixed composition: 200 ohms ±10%, 1/2 w.  In Models earlier than Rev A:  Fixed composition: 300 ohms ±5%, 1/2 w.  Fixed composition: 300 ohms ±5%, 1/2 w.  Fixed composition: 330 ohms ±5%, 1/2 w.  Fixed composition: 220 oohms ±10%, 1/2 w.  Fixed composition: 220 oohms ±10%, 1/2 w.  Fixed composition: 200 ohms ±5%, 1/2 w.  Fixed composition: 200 ohms ±5%, 1/2 w.  Fixed composition: 330 ohms ±5%, 1/2 w.  Fixed composition: 300 ohms ±5%, 1/2 w.  Thermistor rod: 1250 ohms ±10% at 25°C, temp coef 3000 ±5%; sim to Globar 462±11.  Fixed composition: 430 ohms ±5%, 1/2 w.	١	Fixed composition: 10,000 ohms ±5%, 1/2 w.			
Fixed composition: 1800 ohms ±5\$, 1/2 w.  Fixed composition: 1800 ohms ±5\$, 1/2 w.  In Models earlier than Rev A:  Fixed composition: 220 ohms ±10\$, 1/2 w.  Fixed composition: 220 ohms ±10\$, 1/2 w.  Fixed composition: 330 ohms ±10\$, 1/2 w.  Fixed composition: 330 ohms ±10\$, 1/2 w.  Fixed composition: 330 ohms ±5\$, 1/2 w.  Fixed composition: 10,000 ohms ±10\$, 1/2 w.  Fixed composition: 20,000 ohms ±5\$, 1/2 w.  Fixed composition: 22,000 ohms ±5\$, 1/2 w.  Fixed composition: 220 ohms ±10\$, 1/2 w.  Fixed composition: 230 ohms ±5\$, 1/2 w.  In Models earlier than Rev A:  Fixed composition: 330 ohms ±5\$, 1/2 w.  Fixed composition: 330 ohms ±5\$, 1/2 w.  Fixed composition: 330 ohms ±5\$, 1/2 w.  Fixed composition: 10,000 ohms ±10\$, 1/2 w.  Fixed composition: 30 ohms ±5\$, 1/2 w.  In Models earlier than Rev A:  Fixed composition: 2000 ohms ±5\$, 1/2 w.  Thermistor, rod: 1250 ohms ±10\$, 1/2 w.  Thermistor, rod: 1250 ohms ±10\$, 1/2 w.  In Row. C or smaller:  Fixed composition: 30 ohms ±5\$, 1 w.  In Rev. C or smaller:  Fixed composition: 430 ohms ±5\$, 1/2 w.  Fixed composition: 430 ohms ±5\$, 1/2 w.  Fixed composition: 10,000 ohms ±5\$, 1/2 w.  Fixed composition: 2000 ohms ±5\$, 1/2 w.  Fixed composition: 10,000 ohms ±5\$, 1/2 w.  Fixed composition: 220 ohms ±5\$, 1/2 w.  In Models earlier than Rev A:  Fixed composition: 220 ohms ±5\$, 1/2 w.  Fixed composition: 220 ohms ±5\$, 1/2 w.  Fixed composition: 10,000 ohms ±5\$, 1/2 w.  Fixed composition: 220 ohms ±5\$, 1/2 w.  Fixed composition: 220 ohms ±5\$, 1/2 w.  In Models earlier than Rev A:  Fixed composition: 220 ohms ±5\$, 1/2 w.  Fixed composition: 220 ohms ±5\$, 1/2 w.  In Models earlier than Rev A:	١	Fixed composition: 11,000 ohms ±5%, 1/2 w.	1		
Fixed composition: 1800 ohms ±5%, 1/2 w.  In Models earlier than Rev A:  Fixed composition: 220 ohms ±10%, 1/2 w.  In Models earlier than Rev A:  Fixed composition: 430 ohms ±10%, 1/2 w.  Fixed composition: 430 ohms ±10%, 1/2 w.  Fixed composition: 10,000 ohms ±5%, 1/2 w.  Fixed composition: 330 ohms ±5%, 1/2 w.  Fixed composition: 1000 ohms ±5%, 1/2 w.  Fixed composition: 220 ohms ±10%, 1/2 w.  Fixed composition: 220 ohms ±10%, 1/2 w.  Fixed composition: 330 ohms ±5%, 1/2 w.  Fixed composition: 330 ohms ±5%, 1/2 w.  Fixed composition: 33,000 ohms ±5%, 1/2 w.  Fixed composition: 33,000 ohms ±5%, 1/2 w.  Fixed composition: 33,000 ohms ±5%, 1/2 w.  Fixed composition: 330 ohms ±5%, 1/2 w.  In Models earlier than Rev A:  Fixed composition: 330 ohms ±5%, 1/2 w.  Thermistor, rod: 1250 ohms ±10% at 25°C, temp coef 3000 ±5%; sim to Globar 492H-11.  Fixed composition: 340 ohms ±5%, 1 w.  In Rodels earlier than Rev A:  Fixed composition: 430 ohms ±5%, 1/2 w.  Fixed composition: 430 ohms ±5%, 1/2 w.  Fixed composition: 430 ohms ±5%, 1/2 w.  Fixed composition: 10,000 ohms ±5%, 1/2 w.  Fixed composition: 10,000 ohms ±5%, 1/2 w.  Fixed composition: 20 ohms ±5%, 1/2 w.	ı	Fixed composition: 390 ohms ±5%, 1/2 w.	1		
In Models earlier than Rev A:	١	Fixed composition: 1600 ohms ±5%, 1/2 w.	į į		
In Models earlier than Rev A: Fixed composition: 10,000 ohms ±10%, 1/2 w.  Fixed composition: 330 ohms ±5%, 1/2 w. In Models earlier than Rev A: Fixed composition: 1000 ohms ±5%, 1/2 w. Fixed composition: 1000 ohms ±5%, 1/2 w.  Fixed composition: 22,000 ohms ±5%, 1/2 w.  Fixed composition: 220 ohms ±10%, 1/2 w.  (Deleted by Rev A).  Fixed composition: 330 ohms ±5%, 1/2 w. In Models earlier than Rev A: Fixed composition: 33,000 ohms ±5%, 1/2 w.  Fixed composition: 33,000 ohms ±5%, 1/2 w.  Fixed composition: 33,000 ohms ±5%, 1/2 w.  Fixed composition: 330 ohms ±5%, 1/2 w.  Fixed composition: 300 ohms ±5%, 1/2 w.  Fixed composition: 2000 ohms ±5%, 1/2 w.  Thermistor, rod: 1250 ohms ±10% at 25°C, temp coef 3000 ±5%; sint Globar 492H-11.  Fixed composition: 430 ohms ±5%, 1 w. In Rev. C or earlier: Fixed composition: 91 ohms ±10%, 1 w.  Fixed composition: 430 ohms ±5%, 1/2 w.  Fixed composition: 10,000 ohms ±5%, 1/2 w.  Fixed composition: 10,000 ohms ±5%, 1/2 w.  Fixed composition: 7500 ohms ±5%, 1/2 w.  Fixed composition: 220 ohms ±5%, 1/2 w.  Fixed composition: 7500 ohms ±5%, 1/2 w.		In Models earlier than Rev A:			
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In Models earlier than Rev A: Fixed composition: 1000 ohms ±5%, 1/2 w.  Fixed composition: 220 ohms ±10%, 1/2 w.  (Deleted by Rev A).  Fixed composition: 330 ohms ±5%, 1/2 w.  In Models earlier than Rev A: Fixed composition: 33,000 ohms ±5%, 1/2 w.  Fixed composition: 10,000 ohms ±10%, 1/2 w.  Fixed composition: 330 ohms ±5%, 1/2 w.  Fixed composition: 330 ohms ±5%, 1/2 w.  In Models earlier than Rev A: Fixed composition: 2000 ohms ±5%, 1/2 w.  Thermistor, rod: 1250 ohms ±10% at 25°C, temp coef 3000 ±5%; sim to Globar 492H-11.  Fixed composition: 430 ohms ±5%, 1 w.  In Rev. C or earlier: Fixed composition: 91 ohms ±5%, 1/2 w.  Fixed composition: 430 ohms ±5%, 1/2 w.  Fixed composition: 430 ohms ±5%, 1/2 w.  Fixed composition: 10,000 ohms ±5%, 1/2 w.  Fixed composition: 2000 ohms ±5%, 1/2 w.  Fixed composition: 2000 ohms ±5%, 1/2 w.  Fixed composition: 220 ohms ±5%, 1/2 w.		Fixed composition: 10,000 ohms ±10%, 1/2 w.			
Fixed composition: 220 ohms ±10%, 1/2 w.  (Deleted by Rev A).  Fixed composition: 330 ohms ±5%, 1/2 w.  In Models earlier than Rev A:  Fixed composition: 33,000 ohms ±5%, 1/2 w.  Fixed composition: 10,000 ohms ±10%, 1/2 w.  Fixed composition: 330 ohms ±5%, 1/2 w.  In Models earlier than Rev A:  Fixed composition: 2000 ohms ±5%, 1/2 w.  Thermistor, rod: 1250 ohms ±10% at 25°C, temp coef 3000 ±5%; sim to Globar 492H-11.  Fixed composition: 430 ohms ±5%, 1 w.  In Rev. C or earlier:  Fixed composition: 430 ohms ±5%, 1/2 w.  Fixed composition: 430 ohms ±5%, 1/2 w.  Fixed composition: 10,000 ohms ±5%, 1/2 w.  Fixed composition: 7500 ohms ±5%, 1/2 w.  Fixed composition: 220 ohms ±5%, 1/2 w.  Fixed composition: 220 ohms ±5%, 1/2 w.  Fixed composition: 220 ohms ±5%, 1/2 w.		In Models earlier than Rev A:			
(Deleted by Rev A).  Fixed composition: 330 ohms ±5%, 1/2 w.  In Models earlier than Rev A:  Fixed composition: 10,000 ohms ±5%, 1/2 w.  Fixed composition: 330 ohms ±5%, 1/2 w.  Fixed composition: 330 ohms ±5%, 1/2 w.  In Models earlier than Rev A:  Fixed composition: 2000 ohms ±5%, 1/2 w.  Thermistor, rod: 1250 ohms ±5%, 1/2 w.  Thermistor, rod: 1250 ohms ±10% at 25°C, temp coef 3000 ±5%; sim to Globar 492H-11.  Fixed composition: 430 ohms ±5%, 1 w.  In Rev. C or earlier:  Fixed composition: 91 ohms ±10%, 1 w.  Fixed composition: 10,000 ohms ±5%, 1/2 w.  Fixed composition: 10,000 ohms ±5%, 1/2 w.  Fixed composition: 7500 ohms ±5%, 1/2 w.  Fixed composition: 220 ohms ±5%, 1/2 w.  Fixed composition: 220 ohms ±5%, 1/2 w.  Fixed composition: 220 ohms ±5%, 1/2 w.					
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In Models earlier than Rev A:  Fixed composition: 2000 ohms ±5%, 1/2 w.  Thermistor, rod: 1250 ohms ±10% at 25°C, temp coef 3000 ±5%; sim to Globar 492H-11.  Fixed composition: 430 ohms ±5%, 1 w.  In Rev. C or earlier:  Fixed composition: 91 ohms ±10%, 1 w.  Fixed composition: 430 ohms ±5%, 1/2 w.  Fixed composition: 10,000 ohms ±5%, 1/2 w.  In Models earlier than Rev A:  Fixed composition: 220 ohms ±5%, 1/2 w.  In Models earlier than Rev A:				1	
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#### PRODUCTION CHANGES

(Refer to Parts List for description of parts affected by these revisions)

REV. A To make units compatible with revised coding system and to make circuit suitable for allowing greater tolerance in reed charac-

Removed C1706, C1707, CR1701, R1712, CR1703.
Changed value of R1720, R1713, R1707, R1708, R1710, R1715,
R1721, C1708.
Removed connection between contact of FL1703 and R1721.
Added connection between FL1703 and R1713.
Added connection between H5 and P1701.
Added J1713, J1714, P1701, H5, R1725, CR1705.

Note 3 added to Wiring Diagram: For both All-Call and Group-Call, move P1701 from J1713 to J1714.

Note 4 added to Wiring Diagram: Clip out R1725 if all four detectors

REV. B To allow Selector to respond to either simultaneous or sequential

Changed value of C1702, C1703, C1708.

- REV. C To apply muting voltage to proper point on receive audio assembly. Changed termination of black-blue wire on Option Plug P1701 from pin 2 to pin 3.
- REV. D To provide consistent resetability when used in a system including Microphone Model 4EM18D10.
  Changed Value of R1717.
- REV. E To incorporate improved reed. 19C300016 vertical reeds replaced by 19C300580. Reed sockets XFL1701-1704 were replaced by two printed wiring adapter boards. The sketch below shows the changes made to the selector board. R1725 must be present if two reeds are used. Clip out R1725 if all four reeds are used.

