

DESCRIPTION AND MAINTENANCE

MASTR® II BASE STATION COMBINATIONS

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WARNING

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

High-level RF energy in the transmitter Power Amplifier assembly can cause RF burns. **KEEP AWAY FROM THESE CIRCUITS WHEN THE TRANSMITTER IS ENERGIZED!**

COMBINATION NOMENCLATURE

1st Digit	2nd Digit	3rd Digit	4th Digit	5th Digit	6th Digit	7th Digit	8th & 9th Digits	10th Digit
Mechanical Package	Duty Cycle	Power Output	Channel Spacing (kHz)	Control	Number of Freq.	Options	Frequency Range (MHz)	Oscillator Stability
D 30 - inch Desk Mate Cabinet	I Intermittent Duty	4 8 - 20 Watts	4 20	E Extended Local	A 1 TX 1 RX	D Duplex	12 25 - 30	A ±5 PPM
S 44 - inch Desk Mate Cabinet	C Continuous Duty	5 21 - 40 Watts	5 25	J Ext. Local/ Tone Remote	B 2 TX 1 RX	G CG & UHS	13 30 - 36	B ±2 PPM
P Pole Mount Cabinet		6 41 - 80 Watts	6 30	K Ext. Local/ DC Remote	C 2 TX 2 RX	L CG & Duplex	23 36 - 42	C PLL*** ±5 PPM
V Floor Mount Cabinet		7 81 - 128 Watts		N Ext. Local/ Repeat	D 1 TX 2 RX	N Noise Blanker	33 42 - 50	D PLL*** ±2 PPM
				R DC Remote	E 3 TX 3 RX	P UHS	44 66 - 78	
				T Tone Remote	F 4 TX 4 RX	S Standard	45 77 - 88	
				U DC Remote/ Repeat	R 3 TX 1 RX	U Channel Guard	56 138 - 150.8	
				V Tone Remote/ Repeat	S 4 TX 1 RX	W CG & NB	66 150.8 - 174	
				Y Repeat			77 406 - 420	
							78 420 - 450	
							88 450 - 470	
							89 470 - 494	
							91 494 - 512	

* D & I Combinations are PTT with separate receiver antenna cables.

** L Station Combination have simultaneous Encode/Decode Channel Guard.

*** Phase-Lock-Loop.

SPECIFICATIONS*

EIA DIMENSIONS (H X W X D)

DESK MATE (30-Inch)	30-1/4" X 21-1/2" X 15"
DESK MATE (44-Inch)	44-1/4" X 21-1/2" X 15"
	(Adding louvered door for Continuous Duty PA adds 1/2-inch to depth dimension)
POLE MOUNT	45" X 21-1/2" X 21"
FLOOR MOUNT	69" X 23" X 21"

WEIGHT

DESK MATE (30-Inch)	160 lbs.
DESK MATE (44-Inch)	180 lbs.
POLE MOUNT	225 lbs.
FLOOR MOUNT	290 lbs.

INPUT VOLTAGE

121/242 VAC, 60 Hertz Only (50 Hertz
Optional)

AC INPUT POWER

<u>RF OUTPUT POWER</u>	<u>TRANSMIT</u>	<u>RECEIVE</u>	<u>STANDBY</u>
LOW BAND			
50 Watts	270 Watts	75 Watts	40 Watts
100 Watts	260 Watts	105 Watts	65 Watts
HIGH BAND			
35 Watts	270 Watts	75 Watts	40 Watts
65 Watts	270 Watts	75 Watts	40 Watts
110 Watts	560 Watts	105 Watts	65 Watts
UHF BAND			
20 Watts	270 Watts	75 Watts	40 Watts
40 Watts	270 Watts	75 Watts	40 Watts
75 Watts	270 Watts	75 Watts	40 Watts
100 Watts	560 Watts	105 Watts	65 Watts

TEMPERATURE RANGE

-30° to +60°C (-22°F to +140°F)

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

FCC FILING NUMBERS

25-50 MHz

MODEL SERIES	DUTY CYCLE (EIA)	POWER OUTPUT (Internally Adjustable)	FCC FILING NUMBER	
			5 ppm Freq. Stab.	2 ppm Freq. Stab.
(●)I64E...	Intermittent	15 to 50 W	KT-56-A	KT-56-C
(●)I74E...	Intermittent	50 to 100 W	KT-59-A	KT-59-C
(●)I64 (K, J, R or T)...	Intermittent	15 to 50 W	KT-57-A	KT-57-C
(●)I74 (K, J, R or T)...	Intermittent	50 to 100 W	KT-60-A	KT-60-C
(●)C64...	Continuous	15 to 50 W	KT-58-A	KT-58-C
(●)C74...	Continuous	50 to 100 W	KT-61-A	KT-61-C

72-76 MHz

MODEL SERIES	DUTY CYCLE (EIA)	POWER OUTPUT (Internally Adjustable)	FCC FILING NUMBER
(●)I54 (Local)	Intermittent	8-25 W	KT-155A
(●)I54 (Remote)	Intermittent	8-25 W	KT-156-A
(●)C54...	Continuous	8-25 W	KT-157-A

138-174 MHz

MODEL SERIES	DUTY CYCLE (EIA)	POWER OUTPUT (Internally Adjustable)	FCC FILING NUMBER	
			5 ppm Freq. Stab.	2 ppm Freq. Stab.
(●)I56E...	Intermittent	10 to 35 W	KT-41-A	KT-41-C
(●)I66E...	Intermittent	10 to 65 W	KT-42-A	KT-42-C
(●)I76E...	Intermittent	20 to 110 W	KT-43-A	KT-43-C
(●)I56 (K, J, R or T)...	Intermittent	10 to 35 W	KT-44-A	KT-44-C
(●)I66 (K, J, R or T)...	Intermittent	10 to 65 W	KT-45-A	KT-45-C
(●)I76 (K, J, R or T)...	Intermittent	20 to 110 W	KT-46-A	KT-46-C
(●)C56...	Continuous	10 to 35 W	KT-47-A	KT-47-C
(●)C66...	Continuous	10 to 65 W	KT-48-A	KT-48-C
(●)C76...	Continuous	20 to 100 W	KT-49-A	KT-49-C

406-512 MHz

MODEL SERIES	DUTY CYCLE (EIA)	POWER OUTPUT (Internally Adjustable)	FCC FILING NUMBER
(●)I45E...	Intermittent	1 to 20 W	KT-50-D
(●)I55E...	Intermittent	1 to 40 W	KT-53-D
(●)I65E...	Intermittent	10 to 75 W	KT-117-C
(●)I75E...	Intermittent	30 to 100 W	KT-118-C
(●)I45 (L, J, R or T)...	Intermittent	1 to 20 W	KT-51-D
(●)I55 (K, J, R or T)...	Intermittent	1 to 40 W	KT-54-D
(●)I65 (K, J, R or T)...	Intermittent	10 to 75 W	KT-115-C
(●)I75 (K, J, R or T)...	Intermittent	30 to 100 W	KT-116-C
(●)C45	Continuous	1 to 20 W	KT-52-D
(●)C55...	Continuous	1 to 40 W	KT-55-D
(●)C65...	Continuous	10 to 75 W	KT-113-C
(●)C75...	Continuous	30 to 100 W	KT-114-C

(●) Cabinet Style (1st Digit "D", "S", "P" or "V")
Applicable to FCC Rules Part Numbers 21, 89, 91 & 93.

NOTE: FCC Filing number not relevant to equipment operating in 406 to 420 MHz frequency range.

DESCRIPTION

The General Electric MASTR® II radio station combinations are designed for either DC or tone remote control, extended local control or repeater operation. The station receiver is mounted in a shielded enclosure on the radio panel front door, along with a receiver system board which accommodates Channel Guard and other option boards. Jacks are provided on the system board for plug-in interface with the options and control functions. The transmitter exciter is located in a separate shielded compartment on the radio panel front door. See Figure 1.

The continuous-duty transmitter power amplifier hinges from the bottom of the radio housing. The PA assembly consists of a frame mounted to a heat sink. A cover snaps over the frame to form an RF-tight enclosure for the PA board assembly. The intermittent-duty transmitter power amplifier and heat sink assembly is hinged to the radio panel at the rear.

Directly above the PA assembly is the station control shelf. A mother board is mounted to this shelf which accommodates the 10-Volt Regulator/Control and Repeater, DC or Tone Control Modules. The 10-Volt Regulator/Control Module supplies the regulated 10-Volts DC for station operation. The module contains the transmit/receive switching controls and a station microphone pre-amplifier. Front panel controls include the REM PTT and INTERCOM switches along with the TX LIGHT Light Emitting Diode (LED). External control connections are made to TB1201, located on the back of the mother board. See Figure 2.

The station power supply is connected to a 121 VAC power source. Conversion from 121 VAC to 242 VAC is made by jumper changes on the back of the power supply front panel. The input voltage is stepped down to 12-Volts by a ferro-resonant transformer which provides line regulation of $\pm 2\%$ for a $\pm 20\%$ primary change. A power switch, primary and secondary fuses and two AC outlets are located on the front panel. A high-current fuse is located on the back panel.

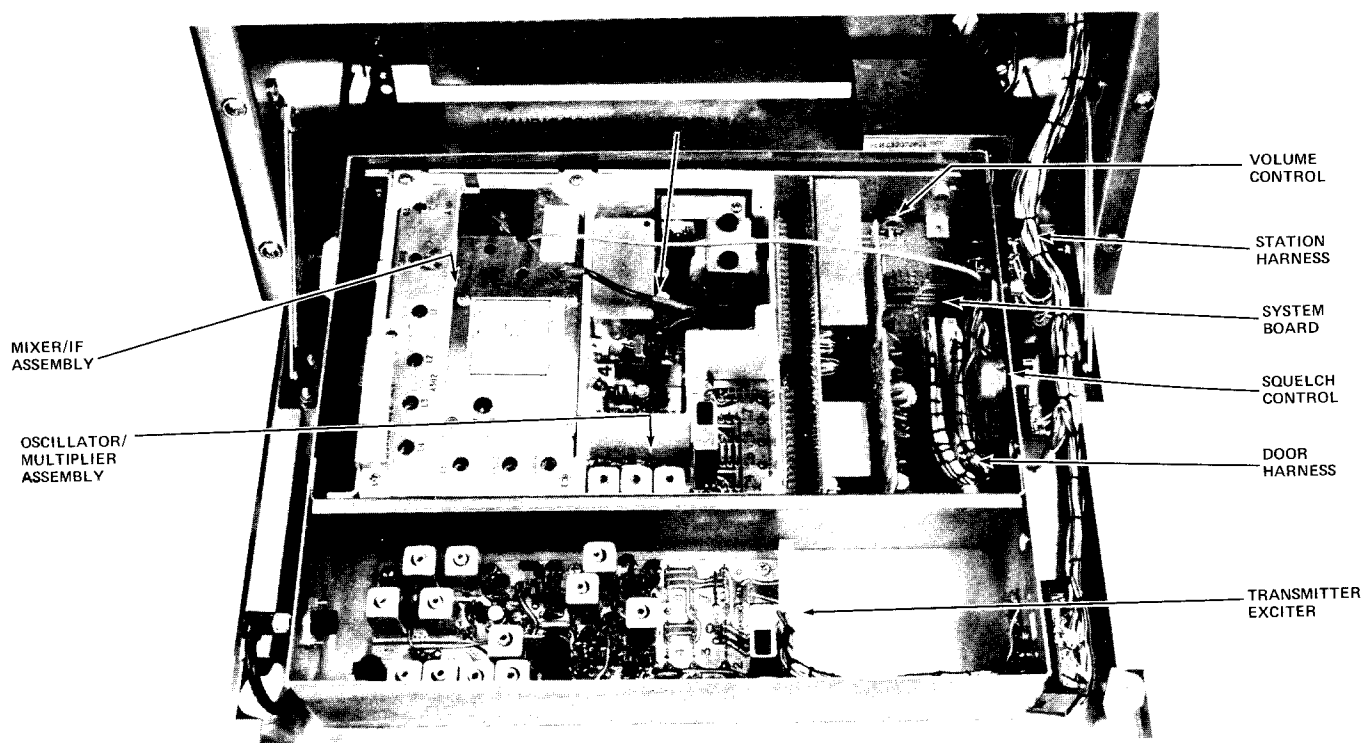


Figure 1 - Radio Panel Front Door

Local Control Modulation Adjustment

1. Set the MIC GAIN control R14 on the 10-Volt Regulator/Control Board to its fully clockwise position.
2. Apply a 1000 Hertz, 30 millivolt RMS signal across B1 and B2 of the 10-Volt Regulator/Control Board. Connect a 0.5 microfarad (or larger) DC blocking capacitor in series with the MIC HI lead (B1).
3. Set MOD ADJUST control R127 on the transmitter exciter for a 4.5 kHz deviation as indicated on a frequency modulation monitor.
4. While talking in a normal voice at the station microphone, adjust MIC GAIN Control R14 for a deviation of 4.5 kHz as measured on the deviation monitor.

Repeater Control Modulation Adjustment

1. Apply a 1000 microvolt on-frequency signal modulated with 1000 Hz tone at ± 3 kHz deviation to the station receiver.
2. Adjust the TX MOD control R14 on the Repeater Audio Board to its maximum clockwise position.
3. Set the MOD ADJUST control R127 on the transmitter exciter for a 4.5 kHz deviation as indicated on a frequency modulation monitor.
4. Adjust TX MOD control R14 on the Repeater Audio Board for a 3.0 kHz deviation as indicated on the deviation monitor.
5. While talking in a normal voice at the station microphone, adjust MIC GAIN control R14 on the 10-Volt Regulator Board for a deviation of 4.5 kHz as measured on the deviation monitor.

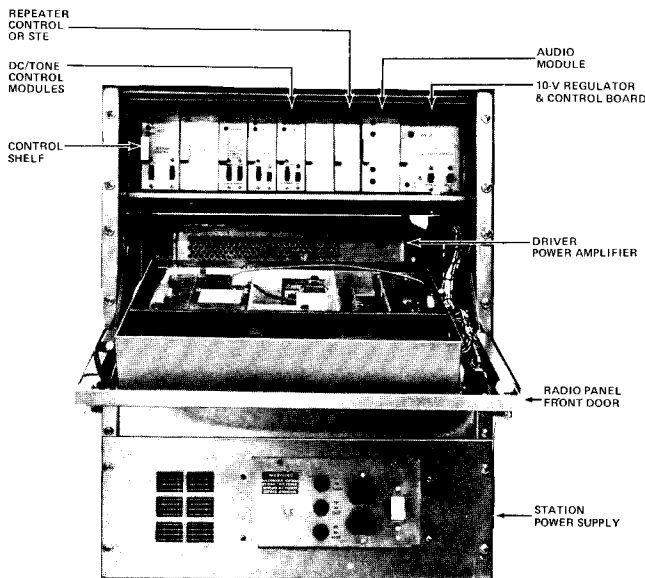


Figure 2 - Station Assemblies

INITIAL ADJUSTMENT

After the MASTR II Station has been installed, the transmitter and receiver must be adjusted by an electronics technician who holds a First or Second Class FCC Radio-telephone or Radiotelegraph license before the station can be placed in operation.

Make sure that a RADIO TRANSMITTER IDENTIFICATION Form (FCC FORM 452-C or General Electric Form NP270303) has been filled out and attached to the transmitter.

TRANSMITTER ADJUSTMENT

The adjustment for the transmitter includes measuring the forward and reflected power and adjusting the antenna length for optimum ratio, then setting the transmitter to rated power output (or to the specific power output which may be required by the FCC station authorization). Next, measuring the frequency and modulation and entering these measurements on the FCC-required station records.

For the complete transmitter adjustment, refer to the ALIGNMENT PROCEDURE in the MAINTENANCE MANUAL for the transmitter.

RECEIVER ADJUSTMENT

The initial adjustment for the receiver includes tuning the input circuit to match the antenna. Refer to the FRONT END ALIGNMENT PROCEDURE in the MAINTENANCE MANUAL for the receiver.

To set the station VOLUME control (R3 on the System Board) use the following procedure:

1. Apply a 1000 microvolt on-frequency test signal modulated by 1,000 Hertz with ± 3 kHz deviation to the receiver antenna jack J937.

2. Turn service speaker switch (S1) to desired RCVR position.
3. Connect an AC VTVM across J905 terminals 1 & 2 and adjust R3 for a reading of 6.3 Volts RMS on the meter.

CAUTION

Adjustment of VOLUME control to settings higher than instructed in the INITIAL ADJUSTMENT may result in blowing the fuse on the station service speaker or damage to the Local Controller Speaker.

4. Set VOLUME switch S2 on the service speaker to the desired listening level.

To set the station SQUELCH control (R901 on the Receiver/Exciter door) use the following procedure:

1. Turn the SQUELCH control clockwise (to the right) as far as possible.
2. Turn the SQUELCH control counter-clockwise (to the left) until the

noise just disappears, then advance control another 20 degrees.

REMOTE CONTROL ADJUSTMENTS

The transmitter modulation gain, the remote audio input and line output must be adjusted before placing the station in operation. Refer to the DC Remote Control Shelf MAINTENANCE MANUAL or the Tone Remote Control Shelf MAINTENANCE MANUAL for these adjustments.

REPEATER CONTROL ADJUSTMENT

The repeater drop-out delay timing and 3-minute limit timing must be adjusted before placing the station in operation. Refer to the MASTR II Repeater Station Control Shelf MAINTENANCE MANUAL for these adjustments.

MAINTENANCE

To insure high operating efficiency and to prevent mechanical and electrical failures from interrupting system operations, routine checks should be made of all mechanical and electrical parts at regular intervals. This preventive maintenance should include the checks as listed in the table of Maintenance Checks.

MAINTENANCE CHECK	INTERVAL BETWEEN CHECKS	
	Every 6 Months	As Required
<u>Transmitter Alignment</u> - Compare meter readings at transmitter multiplier metering jacks with voltages read during initial tune up. Touch up multiplier tuning. Check power output. (See Alignment Procedure for Transmitter).		X
<u>Receiver</u> - While receiving an unmodulated signal on the station frequency(s), adjust OSC-1 trimmer for each operating frequency for a zero discriminator reading. (See the Receiver Alignment Procedure MAINTENANCE Section).		X
<u>Transmission Line</u> - Check for positive indication of pressure on transmission line pressure guage (if pressurized line is used).	X	
<u>Antenna</u> - Check antenna & mast for mechanical stability.	X	
<u>Mechanical Inspection</u> - Visually check cables, plugs, sockets, terminal boards & components for good electrical connections. Check for tightness of nuts, bolts & screws to make sure that nothing is working loose from its mounting.	X	
<u>Cleaning</u> - Use a vacuum cleaner to remove dust which has accumulated inside the cabinet.	X	
<u>Frequency Check</u> - Check transmitter frequency & deviation as required by FCC.		X

Test and Troubleshooting Procedures

The individual Maintenance Manual for the transmitter and receiver describe standard test procedures which the serviceman can use to compare the actual performance of the transmitter or receiver against the specifications of the unit when shipped from the factory. In addition, specific troubleshooting procedures are available to assist the serviceman in troubleshooting the transmitter and receiver.

REMOVING IC's (and all other soldered-in components) can be easily accomplished by using a de-soldering tool such as a SOLDA-PULLT[®] or equivalent. To remove an IC, heat each lead separately on the solder side and remove the old solder with the de-soldering tool.

An alternate method is to use a special soldering tip that heats all of the pins simultaneously.

SYSTEM DESCRIPTION

Receiver

The station receiver consists of an oscillator/multiplier assembly (OSC/MULT), RF Assembly, Mixer/IF Assembly (MIF) and IF-Audio-Squelch Assembly (IFAS). In receivers with noise blankers, the noise blanker circuit replaces the standard MIF board. Refer to the Receiver MAINTENANCE MANUAL for a complete description of the station receiver.

Transmitter

The station transmitter consists of an exciter board assembly and a power amplifier assembly. In continuous duty transmitters, the PA assembly consists of a printed wiring board mounted on a heat sink at the rear of the radio housing. In intermittent duty stations, the heat sink assembly is fastened to two sheet metal adaptor plates which hinge at the radio panel. Refer to the Transmitter MAINTENANCE MANUAL for a complete description of the station transmitters.

System Board A901

The station System Board is located on the Radio Panel Front Door and the receiver modules plug directly into the board. Along the edge of the System Board are two connectors which interconnect with the Remote Control Shelf and Power Supply. Plug-in Channel Guard and Carrier Control Timer option jacks are provided. A metering jack is provided for accommodating the General Electric Model 4EX3A11 Test Set. VOLUME CONTROL R3 is located on the System Board. SQUELCH Control R901 is located on the Radio Panel Front Door.

A jumper is normally present between J933-4 and J933-8 in single-frequency transmit stations. A jumper is also present between H47 and H48 on A901 in single-frequency receive stations. In multiple-frequency receive stations, selecting a particular receive frequency at the remote control unit applies a ground to the particular pin at J931 corresponding to the frequency selected. The ground is then connected via the System Board printed wiring to the receiver OSC/MULT to select the desired oscillator.

VOLUME/SQUELCH from the receiver Audio Pre-Amp is connected via J904-12 to the VOLUME (R3) and SQUELCH (R901) controls. The VOLUME arm is returned to the receiver IFAS board where the audio is amplified by the receiver audio power amplifier circuit. The audio output of the PA is then connected to the speaker leads at J904-18 & 19. The station VOLUME control (R3) is normally adjusted for 1 Watt output and the station speaker level is controlled by the service speaker VOLUME control.

DC Remote Control

In DC Remote Control systems, the control modules on the control shelf utilize DC currents selectively applied to a telephone pair at a remote control console. These DC currents activate circuits in the control modules to perform the desired functions. Refer to the MASTR II DC Remote Station Control Shelf MAINTENANCE MANUAL for a complete description of this system.

Tone Remote Control

A maximum of twelve different functions can be performed in the Tone Remote Control system. This is accomplished by applying two or three tones in sequence at the prescribed level to the transmission medium at a remote control console for detection at the control modules on the control shelf. Refer to the MASTR II Tone Remote Station Control Shelf MAINTENANCE MANUAL for a complete description of this system.

Channel Guard

In stations equipped with Channel Guard, Channel Guard Board 19D417261G1 is plugged into the System Board at P908 and P909. Each MASTR II receiver is equipped with a tone reject filter to prevent the CG tone from being heard in the speaker. In addition, all transmitters have a Channel Guard Modulation control to adjust for proper deviation.

Channel Guard is a continuous-tone controlled squelch system that provides communications control in accordance with EIA standard RS-220. The system utilizes standard tone frequencies from 71.9 to 203.5 Hertz with both the encoder and decoder operating on the same frequency. The STE circuit (Squelch Tail Eliminator) employs

a phase shift of approximately 180° in the encode function to eliminate undesirable noise burst after each transmission.

The decoder operates in conjunction with the receiver to inhibit all calls that are not tone coded with the proper Channel Guard tone frequency. The VOLUME/SQUELCH output of the receiver is applied to the Channel Guard decoder at P908-1. As long as no signal is received properly coded with the CG tone, a ground is supplied through P908-5 to mute the receiver. When a properly coded signal is received, the receiver unsquelches and the desired signal is heard. In duplex combinations, a separate encoder

is used in the exciter and a separate decoder is used in the receiver.

A Channel Guard Filter (19C320627G1) is used in the Remote Audio Board to attenuate frequencies below 203.5 Hertz to prevent the Channel Guard tone from being applied to the remote audio pair.

A Repeater will not key in Channel Guard systems unless the received signal is coded with the proper Channel Guard tone. The CG MONITOR function when selected at the Local Controller in Local/Repeater stations will not allow the Repeater to key on an uncoded signal but will allow the operator to hear all channel activity.

GENERAL ELECTRIC COMPANY • MOBILE COMMUNICATIONS DIVISION
WORLD HEADQUARTERS • LYNCHBURG, VIRGINIA 24502 U.S.A.



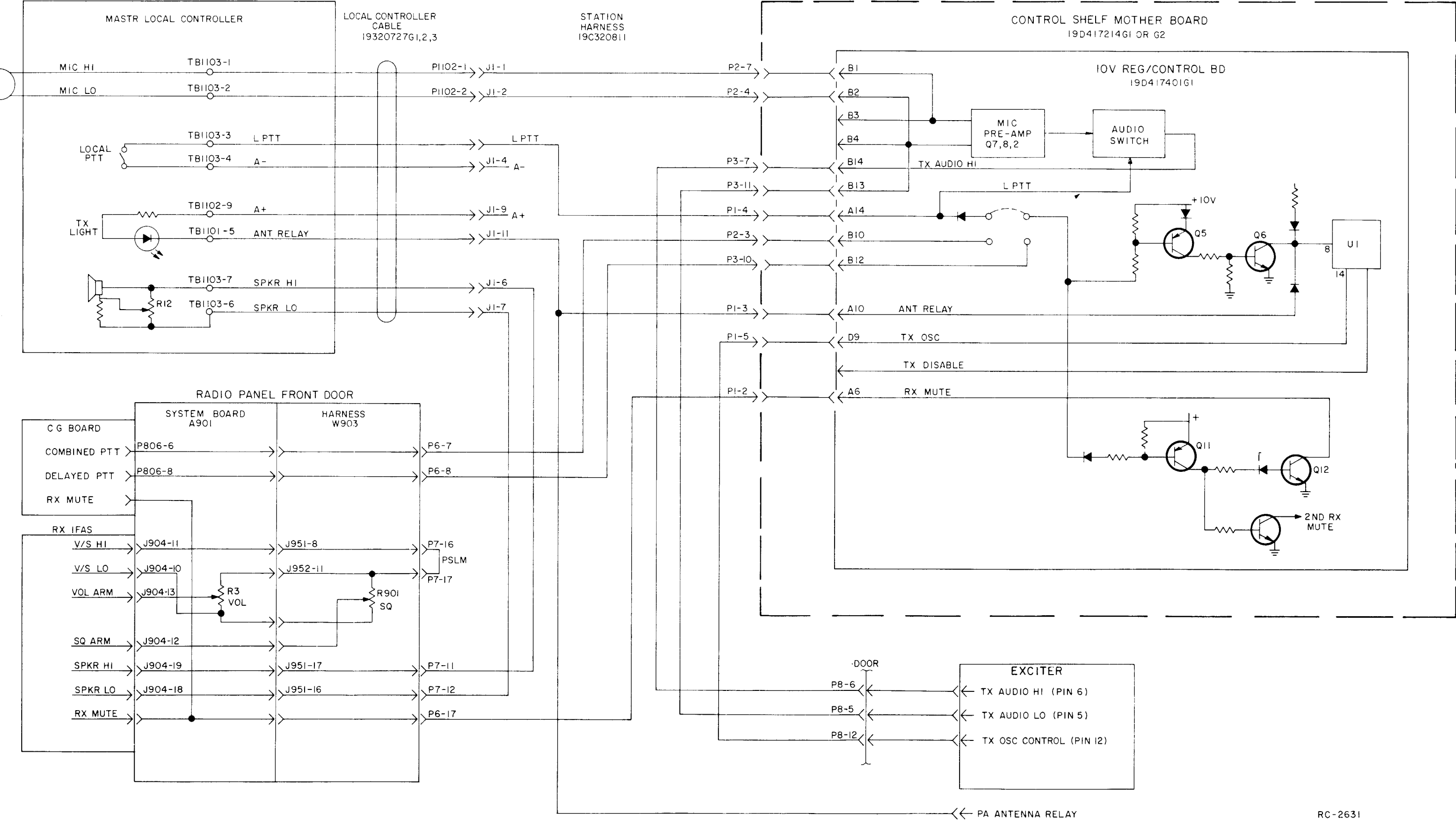


FIGURE 3 - SYSTEM BLOCK DIAGRAM



(19D423897, Rev. 7)
(RC-2943)
(19D423597, Sh. 1, Rev. 10)
(19D423597, Sh. 2, Rev. 10)

(19D423147, Rev. 1)
(19D417205, Sh. 2, Rev. 3)
(19D417205, Sh. 3, Rev. 3)

REFER TO WIRING DIAGRAM FOR THE FOLLING CONNECTIONS	
FROM	TO
H41	H42
H50	H77
H45	H46
H47	H48
H68	H69
H49	H76

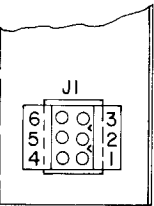
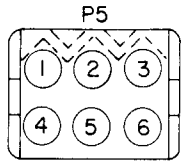
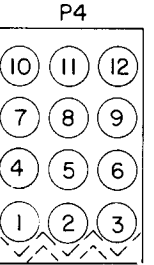
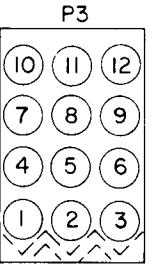
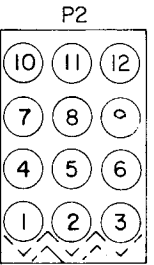
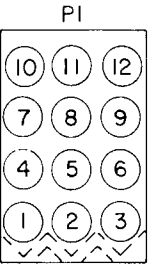
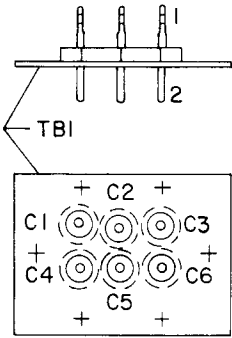
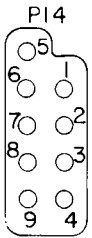
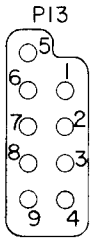
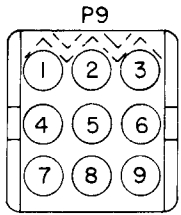
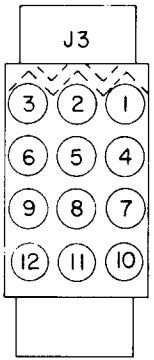
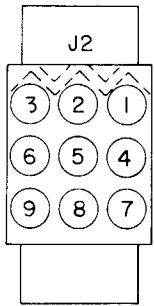
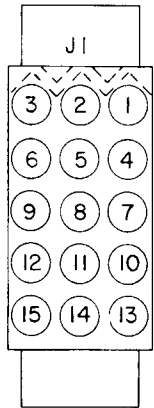
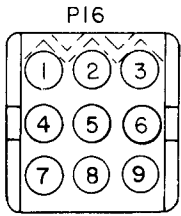
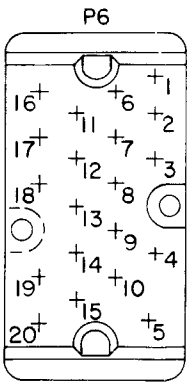
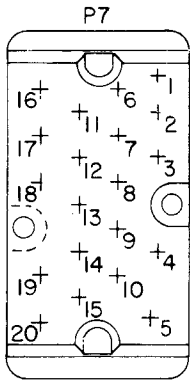
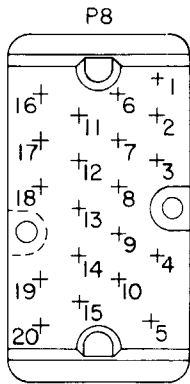
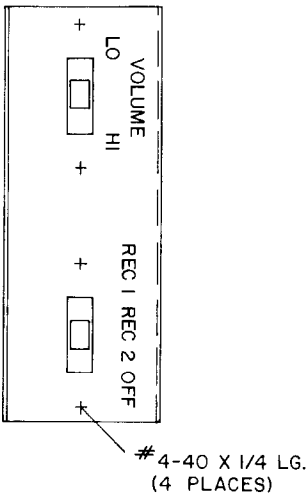
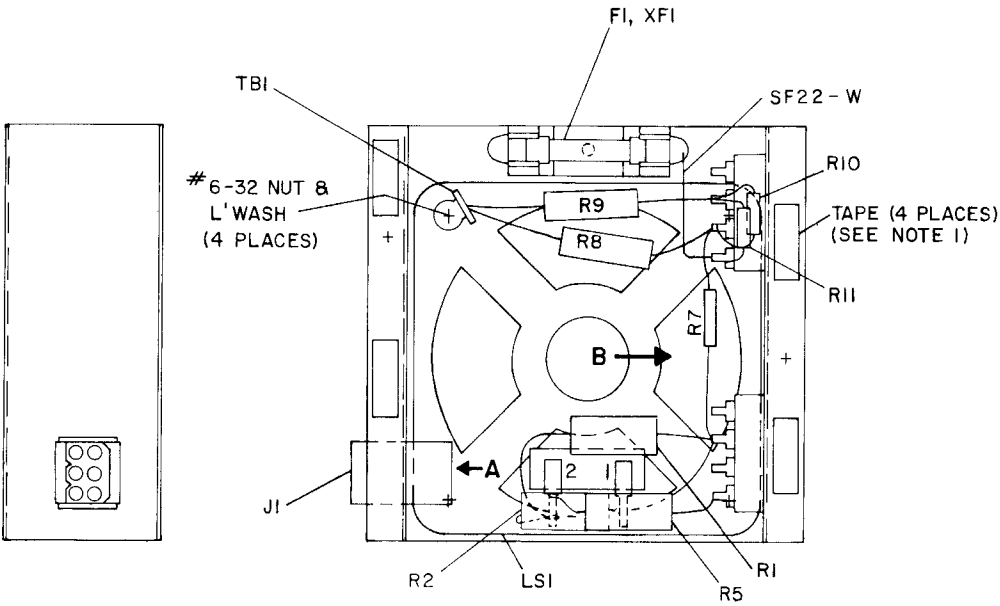
TYP. MOUNTING
FOR J1205-J1213

DENOTES
FEMALE
PIN

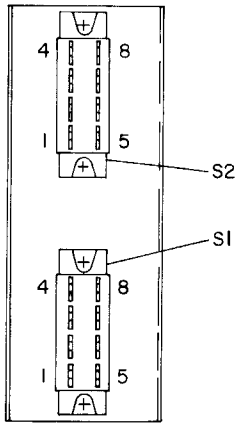
TYP. MOUNTING
FOR J1202&1204
FAR SIDE VIEW

OUTLINE DIAGRAMS

CONTROL SHELF MOTHER BOARDS
19D417214 AND SYSTEM BOARD A901



VIEW A



VIEW B

NOTES:
1. INSTALL TAPE ALONG FLANGE, ONE ON EACH SIDE
OF MOUNTING HOLES.

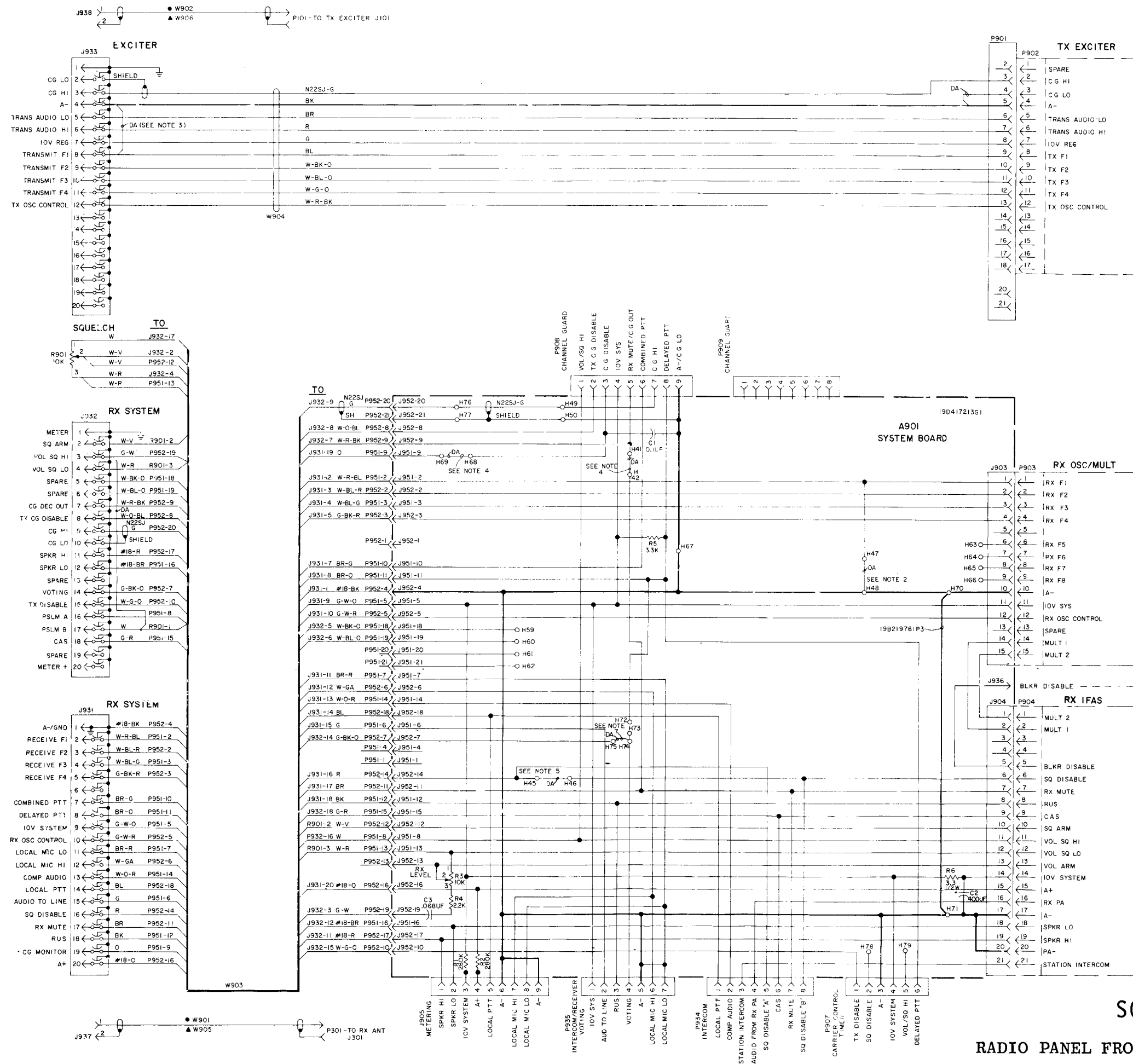
(19C328482, Rev. 3)

NOTE:
1. CONNECTORS SHOWN FROM WIRING SIDE.

OUTLINE DIAGRAMS

SERVICE SPEAKER 19C320728G2
AND HARNESS 19C320811

(19C328112, Rev. 1)



- ALL WIRE SP22 UNLESS NOTED
- JUMPER FROM A901 H47 TO A901 H48 PRESENT IN SINGLE FREQUENCY RECEIVE STATIONS
- DA FROM J933 PIN 4 TO PIN 6 PRESENT IN SINGLE FREQ. TRANSMIT STATIONS
- JUMPER FROM A901 H41 TO A901 H42 AND A901 H69 TO A901 H68 PRESENT IN ALL STATIONS EXCEPT CHANNEL GUARD REPEATERS. IN CHANNEL GUARD REPEATERS PRESENT WITH INTERCOM
- JUMPER FROM A901 H45 TO A901 H46 NOT PRESENT WITH INTERCOM
- JUMPER FROM A901 H47 TO A901 H48 PRESENT IN ALL REPEATERS OF C.G. REMOTE REPEAT STATION
- IN 3 WIRE CONTROL SYSTEMS WITH VOTING, IN BOARD JUMPER FROM A901 H15 TO A901 H16 IS NOT PRESENT. JUMPER FROM A901 H15 TO A901 H16 IS PRESENT IN 4 WIRE STATIONS WITH VOTING. IN BOARD JUMPER FROM A901 H15 TO A901 H16 IS PRESENT IN ALL STATIONS.
- 800 MHZ
- 16 MHZ & 450 MHZ

ALL RESISTORS ARE 1/4 WATT UNLESS OTHERWISE SPECIFIED AND RESISTOR VALUES IN OHMS UNLESS FOLLOWED BY K=1000 OHMS OR MEG=1,000,000 OHMS CAPACITOR VALUES IN MICROFARADS (EQUAL TO MICROFARADS) UNLESS FOLLOWED BY UF= MICROFARADS. INDUCTANCE VALUES IN MICROHENRYS UNLESS FOLLOWED BY MH= MILLIHENRYS OR H=HENRYS

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

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. PL19D417213G1 REV LETTER A

PL19D417262G1

PL19D417262G4

SCHEMATIC DIAGRAM

RADIO PANEL FRONT DOOR 19D417262G1

Issue 1

PARTS LIST

LBI-4801A
MASTR II STATION RADIO PANEL
FRONT DOOR ASSEMBLY
19D417262G1

SYMBOL	GE PART NO.	DESCRIPTION
A901		DOOR ASSEMBLY 19D417262G1 COMPONENT BOARD 19D417213G1 ----- CAPACITORS ----- C1 19A116080P7 Polyester: 0.1 µf ±20%, 50 VDCW. C2 19A115680P24 Electrolytic: 400 µf +150% -10%, 18 VDCW; sim to Mallory Type TTX. C3 19A116080P106 Polyester: 0.068 µf ±10%, 50 VDCW. ----- JACKS AND RECEPTACLES ----- J903 Connector. Includes: 19A116659P1 Connector: 3 contacts; sim to Molex 09-52-32. (Quantity 1). 19A116659P4 Connector: 6 contacts; sim to Molex 09-52-3062. (Quantity 2). J904 Connector. Includes: 19A116659P1 Connector: 3 contacts; sim to Molex 09-52-3032. (Quantity 1). 19A116659P4 Connector: 6 contacts; sim to Molex 09-52-3062. (Quantity 3). J905 19B219374G2 Connector: 9 contacts. J936 4033513P4 Contact, electrical: sim to Bead Chain L93-3. J951 Connector. Includes: 19A116659P13 Connector: 4 contacts; sim to Molex 09-56-1041. (Quantity 5). J952 Connector. Includes: 19A116659P11 Connector: 7 contacts; sim to Molex 09-56-1071. (Quantity 2). 19A116659P12 Connector: 6 contacts; sim to Molex 09-56-1061. (Quantity 1). ----- PLUGS ----- P907 19A116779P1 Contact, electrical: sim to Molex 08-54-0404. (Quantity 6). P908 19A116779P1 Contact, electrical: sim to Molex 08-54-0404. (Quantity 9). P909 19A116779P1 Contact, electrical: sim to Molex 08-54-0404. (Quantity 8). P934 19A116779P1 Contact, electrical: sim to Molex 08-54-0404. (Quantity 8). P935 19A116779P1 Contact, electrical: sim to Molex 08-54-0404. (Quantity 7). ----- RESISTORS ----- R1 and R2 19C314256P22803 Metal film: 280,000 ohms ±1%, 1/4 w. R3 19B209358P106 Variable, carbon film: approx 75 to 10,000 ohms ±10%, 0.25 w; sim to CTS Type X-201. R4 3R152P222J Composition: 2200 ohms ±5%, 1/4 w. R5 3R152P332J Composition: 3300 ohms ±5%, 1/4 w. R6 7147161P15 Composition: 3.3 ohms ±5%, 1/2 w. ----- CABLES ----- W901 5491689P105 Cable, RF: approx 12 inches long, 350 VRMS, 500 VDC operating voltage. Includes J937, P301. W902 5491689P104 Cable, RF: approx 3-5/8 inches long, 350 VRMS, 500 VDC operating voltage. Includes J938, P101.

SYMBOL	GE PART NO.	DESCRIPTION
W903		CABLE ASSEMBLY 19D417262G2 ----- JACKS AND RECEPTACLES ----- J931 and J932 19C303426G1 Connector: 20 pin contacts. ----- PLUGS ----- P951 and P952 Connector. Includes: 19A116659P25 Shell. 19A116781P5 Contact, electrical: wire No. 16-20 AWG; sim to Molex 08-50-0106. 19A116781P6 Contact, electrical: wire No. 22-26 AWG; sim to Molex 08-50-0108. ----- RESISTORS ----- R901 5496870P31 Variable, carbon film: 10,000 ohms ±20%; sim to Mallory LC(10K). W904 EXCITER CABLE 19D417262G3 ----- JACKS AND RECEPTACLES ----- J933 19C303426G1 Connector: 20 pin contacts. ----- PLUGS ----- P901 Connector. Includes: 19A116659P25 Shell. 19A116781P5 Contact, electrical: wire No. 16-20 AWG; sim to Molex 08-50-0106. 19A116781P6 Contact, electrical: wire No. 22-26 AWG; sim to Molex 08-50-0108. ----- MISCELLANEOUS ----- 19C320679G1 Door. 19B218176P1 Pawl. (Part of door latch). 19C318151P1 Knob. (Part of door latch). N193P1208C6 Tap screw: No. 6 x 1/2. (Part of door latch). 5493361P8 Washer, spring tension. (Part of door latch). 19A121676P1 Guide pin. (Used with J931-J933). 19B209519P1 Polarizing tab. (Used with P901, P951, P952). 7115130P9 Lockwasher: sim to Shakeproof 1220-2. (Used with R901 mounting). 7165075P2 Hex nut, brass: No. 3/8-32. (Used with R901 mounting). 19A115874P1 Catch, friction. (Latches A901).

PRODUCTION CHANGES

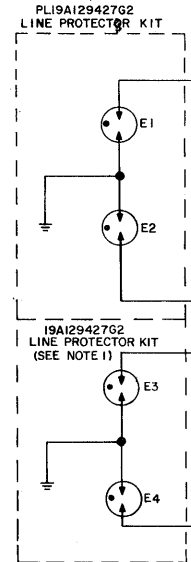
Changes in the equipment to improve performance or to simplify circuits are identified by a "Revision Letter," which is stamped after the model number of the unit. The revision stamped on the unit includes all previous revisions. Refer to the Parts List for descriptions of parts affected by these revisions.

REV. A - To provide Alarm Tone Capability. Added H78 and H79 to the printed pattern.

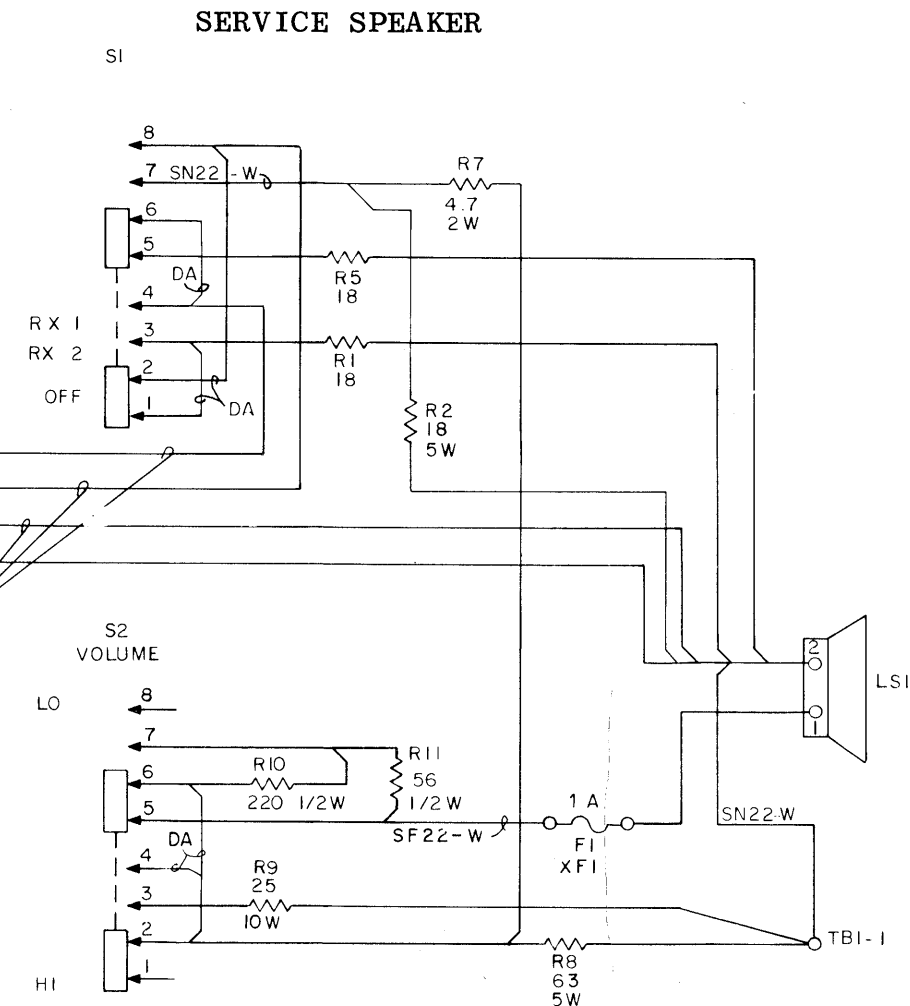
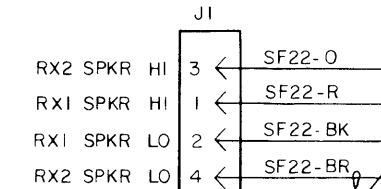
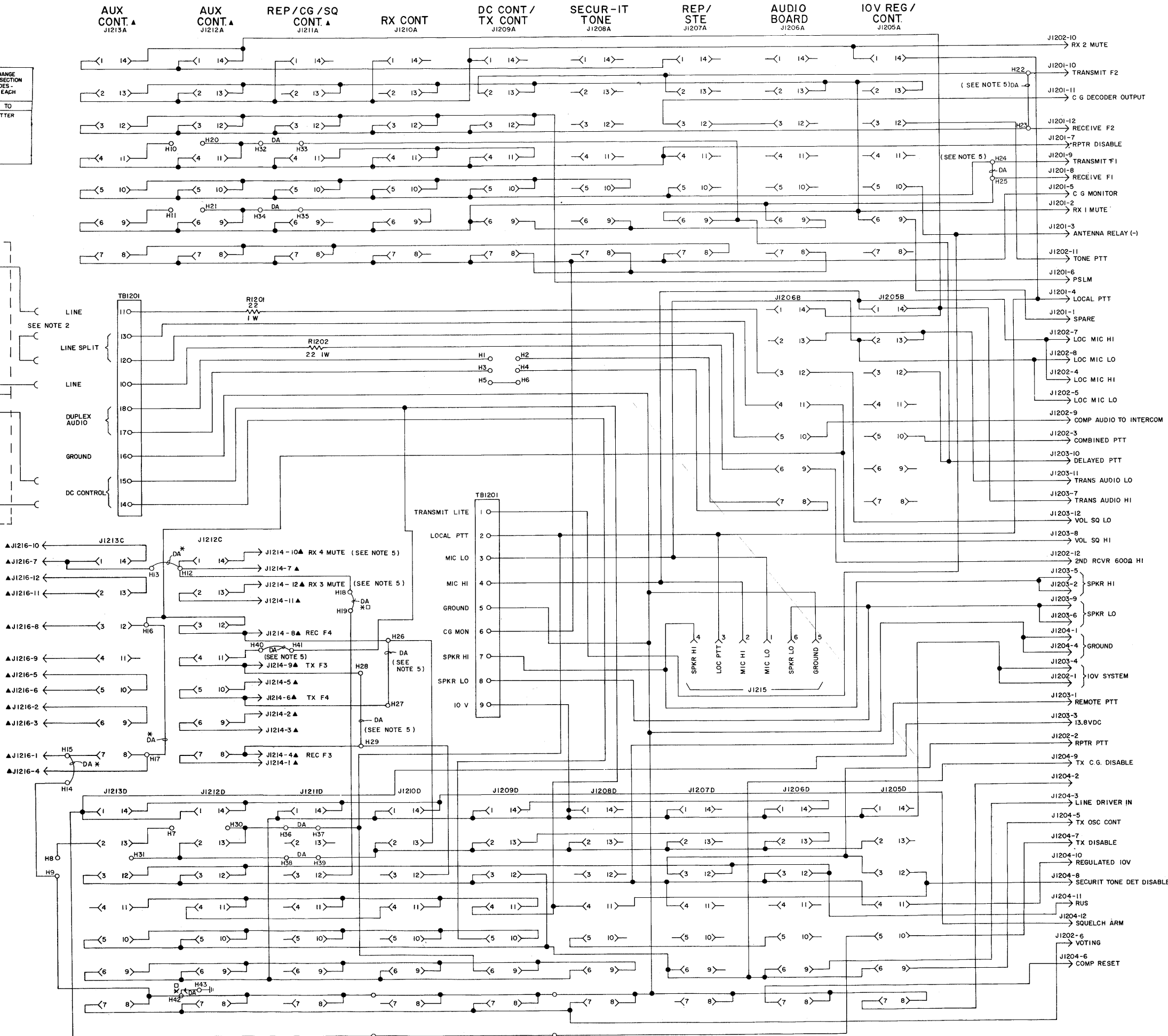
SEE APPLICABLE PRODUCTION CHANGE SHEETS IN INSTRUCTION BOOK SECTION DEALING WITH THIS UNIT, FOR DESCRIPTION OF CHANGES UNDER EACH REVISION LETTER.

THIS ELEM DIAG APPLIES TO

MODEL NO	REV LETTER
19D417214G1	J
19D417214G2	J



- ▲ PRESENT IN GROUP 1 ONLY
- NOTES:
- THE TELEPHONE LINE PROTECTORS CONNECTED TO TB1201-15 AND 14 ARE NEEDED ONLY WHEN SEPARATE AUDIO AND CONTROL PAIRS ARE USED.
 - JUMPER PRESENT IN ALL TONE REMOTE SYSTEMS AND IN DC CONTROL SYSTEMS USING SEPARATE AUDIO AND CONTROL PAIRS.
 - JUMPERS PRESENT FOR LOCAL EACOM.
 - ✕ JUMPERS PRESENT FOR REGIONAL EACOM.
 - JUMPERS PRESENT FOR 4 FREQ. TONE REMOTE, W/CG, 4 FREQ. TONE REMOTE/REPEAT, W/CG, 4 FREQ. TX WITH 4 RECEIVERS, W/CG, RX 3 & 4 MUTE USED WITH 4 TX WITH 4 RECEIVERS.
 - IF OPTIONS 9564 THRU 9570 ARE APPLIED, THEN THE FOLLOWING JUMPERS ARE REMOVED:
H32 - H33
H34 - H35
H36 - H37
H38 - H39
 - IF OPTION 9503 IS APPLIED THEN JUMPER H32-H33 IS REMOVED.



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
PLI9C320728G2	G

(19C320731, Rev. 9)

SCHEMATIC DIAGRAMS

SERVICE SPEAKER 19C320728G2 AND
CONTROL SHELF MOTHER BOARD 19D417214G1 & G2

PARTS LIST

LB14816D

SERVICE SPEAKER
19C320728G2

SYMBOL	GE PART NO.	DESCRIPTION
F1*	1R16P3	----- FUSES ----- Quick blowing: 1 amp at 250 v; sim to Littelfuse 312001 or Bussmann AGC-1. In REV E & earlier:
	1R16P1	Quick blowing: 1/2 amp at 250 v; sim to Littelfuse 312.500 or Bussmann AGC-1/2. In REV D:
	1R16P14	Quick blowing: 3/8 amp 250 v; sim to Littelfuse 312.375 or Bussmann AGC-3/8. Added by REV D.
J1		----- JACKS AND RECEPTACLES ----- Connector. Includes: Shell. Contact, electrical: male; sim to Molex 1380-T.
	19B209288P22	
	5496809P18	
LS1		----- LOUDSPEAKERS ----- Permanent magnet: 3.5 inch, 18 ohms $\pm 10\%$ imp, 15 to 19 ohms $\pm 20\%$ DC res, resonant frequency 290 Hz; sim to Oaktron S-9847.
	19A115964P1	
		----- RESISTORS -----
R1	5493035P53	Wirewound: 18 ohms $\pm 5\%$, 5 w; sim to Hamilton Hall Type HR.
R2*	5493035P3	Wirewound: 2 ohms $\pm 5\%$, 5 w; sim to Hamilton Hall Type HR. Added by REV F.
	5493035P53	Wirewound: 18 ohms $\pm 5\%$, 5 w; sim to Hamilton Hall Type HR. Deleted by REV D.
R3*	19B209490P1	Variable, wirewound: 35 ohms $\pm 20\%$, 2.25 w; sim to CTS Type 118. Deleted by REV D.
R4*	5493035P52	Wirewound: 8.2 ohms $\pm 10\%$, 5 w; sim to Hamilton Hall Type HR. Deleted by REV C.
R5	5493035P53	Wirewound: 18 ohms $\pm 5\%$, 5 w; sim to Hamilton Hall Type HR. Added by REV B.
R6*	5493035P27	Wirewound: 10 ohms $\pm 5\%$, 5 w; sim to Hamilton Hall Type HR. Added by REV C. Deleted by REV D.
R7*	19A700050P21	Wirewound: 4.7 ohms $\pm 10\%$, 2 w. Added by REV D.
R8*	5493035P17	Wirewound: 63 ohms $\pm 5\%$, 5 w; sim to Hamilton Hall Type HR.
		In REV D:
	3R78P620J	Composition: 62 ohms $\pm 5\%$, 1 w. Added by REV D.
R9*	5493035P44	Wirewound: 25 ohms $\pm 5\%$, 10 w; sim to Hamilton Hall Type HR.
		In REV D:
	19B209022P48	Wirewound: 24 ohms $\pm 5\%$, 2 w; sim to IRC Type BWH. Added by REV D.
R10*	19A700113P47	Composition: 220 ohms $\pm 5\%$, 1/2 w. Added by REV D.
R11*	19A700113P33	Composition: 56 ohms $\pm 5\%$, 1/2 w. Added by REV D.
S1		----- SWITCHES ----- Slide: DPTT, 2 poles, 3 positions, 0.5 amp VDC or 3 amps VAC at 125 v; sim to Switchcraft 11D1033B.
	19B209261P5	
S2*	19B209261P5	Slide: DPTT, 2 poles, 3 positions, 0.5 amp VDC or 3 amps VAC at 125 v; sim to Switchcraft 11D1033B. Added by REV D.

*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES

PARTS LIST

LB14811B

CONTROL SHELF MOTHER BOARD
19D417214G1, G2

SYMBOL	GE PART NO.	DESCRIPTION
J1201	19A116647P4	----- JACKS AND RECEPTACLES ----- Connector, printed wiring: 12 terminals, sim to Molex 09-18-5121.
	J1202	Connector, printed wiring: 12 terminals, sim to Molex 09-18-5927.
	J1203	Connector, printed wiring: 12 terminals, sim to Molex 09-18-5121.
J1204	19A116647P6	Connector, printed wiring: 12 terminals, sim to Molex 09-18-5927.
J1205A	19A116446P5	Connector, printed wiring: 14 contacts.
J1205B	19A116446P5	Connector, printed wiring: 14 contacts.
J1205D	19A116446P5	Connector, printed wiring: 14 contacts.
J1206A	19A116446P5	Connector, printed viring: 14 contacts.
J1206B	19A116446P5	Connector, printed wiring: 14 contacts.
J1206D	19A116446P5	Connector, printed wiring: 14 contacts.
J1207A	19A116446P5	Connector, printed wiring: 14 contacts.
J1207D	19A116446P5	Connector, printed wiring: 14 contacts.
J1208A	19A116446P5	Connector, printed wiring: 14 contacts.
J1208D	19A116446P5	Connector, printed wiring: 14 contacts.
J1209A	19A116446P5	Connector, printed wiring: 14 contacts.
J1209D	19A116446P5	Connector, printed wiring: 14 contacts.
J1210A	19A116446P5	Connector, printed viring: 14 contacts.
	J1210D	Connector, printed wiring: 14 contacts.
	J1211A	Connector, printed wiring: 14 contacts.
J1211D	19A116446P5	Connector, printed wiring: 14 contacts.
J1212A	19A116446P5	Connector, printed wiring: 14 contacts.
J1212C	19A116446P5	Connector, printed wiring: 14 contacts.
J1212D	19A116446P5	Connector, printed wiring: 14 contacts.
J1213A	19A116446P5	Connector, printed wiring: 14 contacts.
J1213C	19A116446P5	Connector, printed wiring: 14 contacts.
J1213D	19A116446P5	Connector, printed viring: 14 contacts.
J1214	19A116647P4	Connector, printed wiring: 12 terminals, sim to Molex 09-18-5121.
J1215	19B219627G1	Connector: 6 contacts.
J1216	19A116647P4	Connector, printed wiring: 12 terminals, sim to Molex 09-18-5121.
R1201* and R1202*		----- RESISTORS ----- Composition: 22 ohms $\pm 5\%$, 1 w. Added by REV A.
		----- TERMINAL BOARDS -----
TB1201	19A116667P3	Plate nut. (Quantity 18).
		----- MISCELLANEOUS -----
	19A129525G3	Cable: approx 3 inches long.

*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES

PRODUCTION CHANGES

Changes in the equipment to improve performance or to simplify circuits are identified by a "Revision Letter," which is stamped after the model number of the unit. The revision stamped on the unit includes all previous revisions. Refer to the Parts List for descriptions of parts affected by these revisions.

REV. A - To provide line surge protection and change polarity of DC control leads. Added R1201 and R1202. Reversed connections to J1209-4 and J1209-5.

REV. B - Changed printed board to provide outputs for EACOM Systems.

REV. C - Changed board for use in 4-frequency remote systems.

REV. D - To reduce falsing on noise. Changed printed pattern by interconnecting J1209D-4, TB1201-14 and J1208D-4.

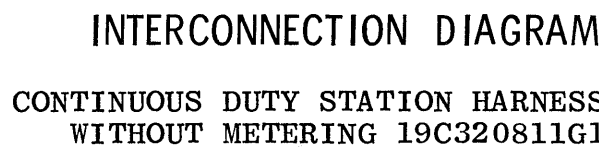
REV. E - To make both Auxiliary positions functional with station options. Added H32 thru H39 to the printed pattern.

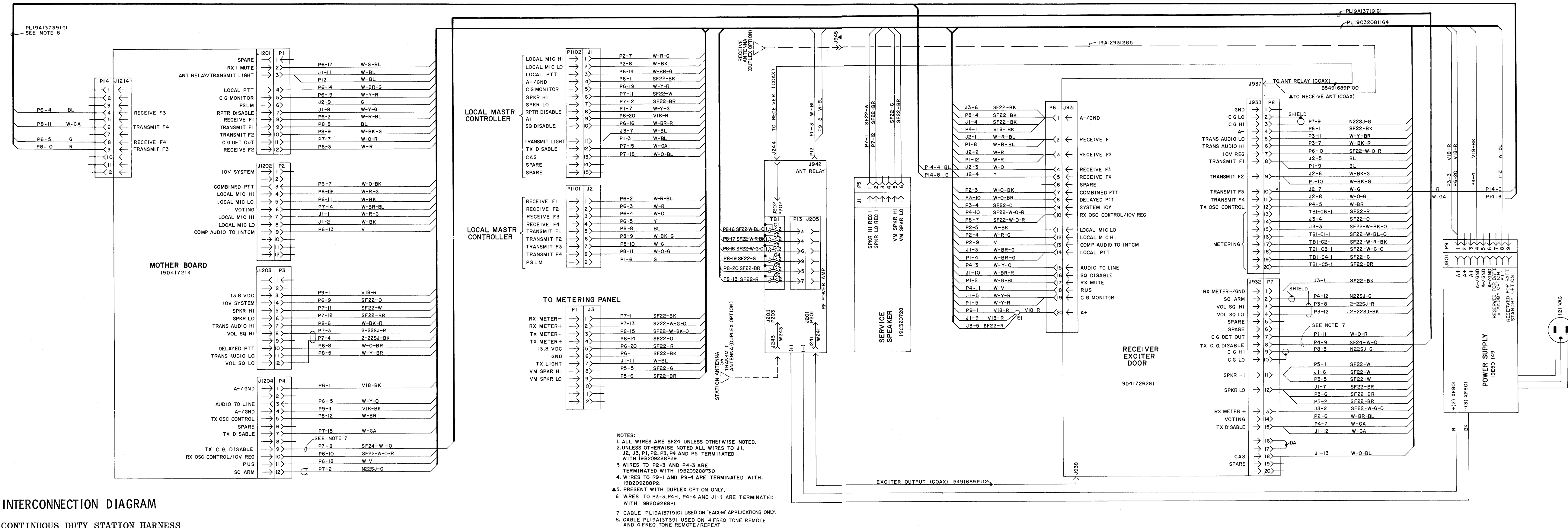
REV. F - Change pattern to supply +10 Volts to J1210D-6.

REV. G - Run added between 3 and 4 frequency TX control to Secur-It-Tone Board to eliminate falsing.

REV. H - Changed pattern to improve noise floor in EACOM options.

REV. J - To correct printed wiring run error at J1212C Pins 12 and 13.





INTERCONNECTION DIAGRAM

CONTINUOUS DUTY STATION HARNESS
WITH METERING 19C320811G4

PARTS LIST

LBI-4799
MASTER II CONTINUOUS DUTY
STATION HARNESS WITH METERING
19C320811G4

SYMBOL	GE PART NO.	DESCRIPTION
J1	19B209288P5 5496809P17	----- JACKS AND RECEPTACLES ----- Connector. Includes: Shell. Contact, electrical: female; sim to Molex 1381-T. (Quantity 13).
J2	19B209288P3 5496809P17	Connector. Includes: Shell. Contact, electrical: female; sim to Molex 1381-T. (Quantity 9).
J3	19B209288P25 5496809P17	Connector. Includes: Shell. Contact, electrical: female; sim to Molex 1381-T. (Quantity 9).
P1	19B209288P20 5496809P17	----- PLUGS ----- Connector. Includes: Shell. Contact, electrical: female; sim to Molex 1381-T. (Quantity 11).
P2	19B209288P20 5496809P17	Connector. Includes: Shell. Contact, electrical: female; sim to Molex 1381-T. (Quantity 6).
P3	5496809P18 19B209288P20 5496809P17	Contact, electrical: male; sim to Molex 1380-T. (Quantity 1). Connector. Includes: Shell. Contact, electrical: female; sim to Molex 1381-T. (Quantity 9).
P4	19B209288P20 5496809P17 5496809P18	Connector. Includes: Shell. Contact, electrical: female; sim to Molex 1381-T. (Quantity 7). Contact, electrical: male; sim to Molex 1380-T. (Quantity 1).
P5	19B209288P23 5496809P17	Connector. Includes: Shell. Contact, electrical: female; sim to Molex 1381-T. (Quantity 4).
P6 thru P8	19C303506P1	Connector, phen: 20 contacts.
P9	19B209288P4 5496809P18 19B209288P2	Connector. Includes: Shell. Contact, electrical: male; sim to Molex 1380-T. (Quantity 1). Contact, electrical: male; sim to Molex 1190-T. (Quantity 1).
P12	19A115793P1	Contact, electrical: sim to Malco 2700.
P13	19B219534P1	Plug: 9 pins.
TB1	19A130651G1	----- TERMINAL BOARDS ----- Plate.

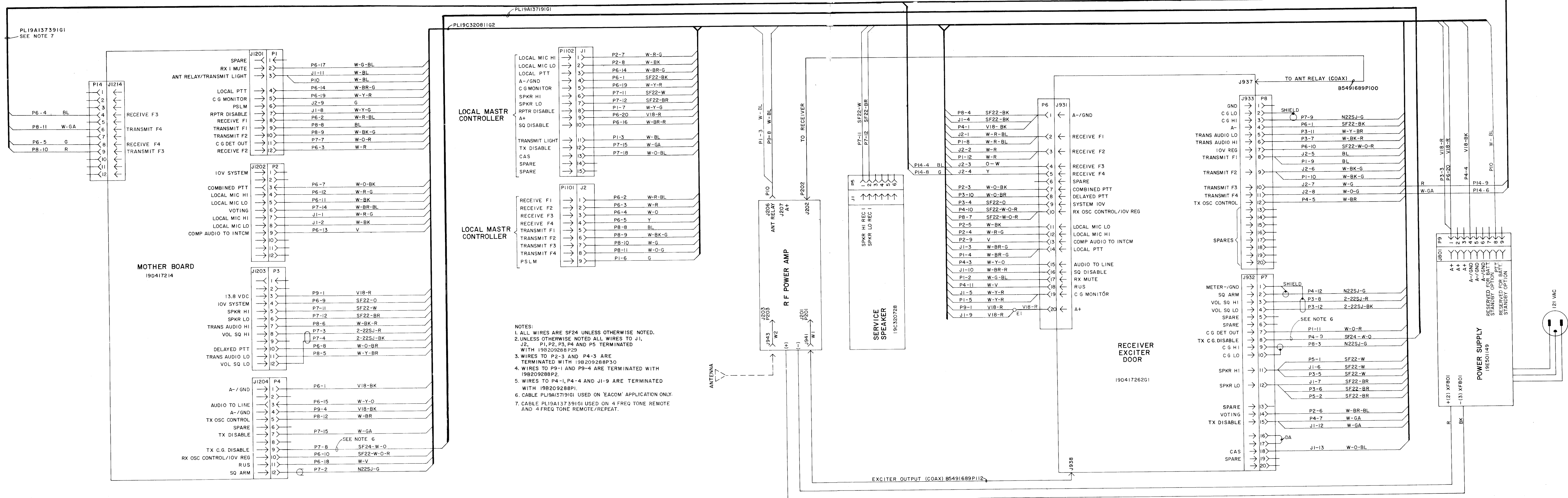
*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES

PARTS LIST

MASTR II INTERMITTENT DUTY
REMOTE CONTROL STATION HARNESS
19C320811G2

SYMBOL	GE PART NO.	DESCRIPTION
J1	19B209288P5	----- JACKS AND RECEPTACLES ----- Connector. Includes: Shell.
	5496809P17	Contact, electrical: female; sim to Molex 1381-T. (Quantity 13).
J2	19B209288P3	Connector. Includes: Shell.
	5496809P17	Contact, electrical: female; sim to Molex 1381-T. (Quantity 9).
P1	19B209288P20	----- PLUGS ----- Connector. Includes: Shell.
	5496809P17	Contact, electrical: female; sim to Molex 1381-T. (Quantity 11).
P2	19B209288P20	Connector. Includes: Shell.
	5496809P17	Contact, electrical: female; sim to Molex 1381-T. (Quantity 6).
	5496809P18	Contact, electrical: male; sim to Molex 1380-T. (Quantity 1).
P3	19B209288P20	Connector. Includes: Shell.
	5496809P17	Contact, electrical: female; sim to Molex 1381-T. (Quantity 9).
P4	19B209288P20	Connector. Includes: Shell.
	5496809P17	Contact, electrical: female; sim to Molex 1381-T. (Quantity 7).
	5496809P18	Contact, electrical: male; sim to Molex 1380-T. (Quantity 1).
P5	19B209288P23	Connector. Includes: Shell.
	5496809P17	Contact, electrical: female; sim to Molex 1381-T. (Quantity 2).
P6 thru P8	19C303506P1	Connector, phen: 20 contacts.
P9	19B209288P4	Connector. Includes: Shell.
	5496809P18	Contact, electrical: male; sim to Molex 1380-T. (Quantity 1).
	19B209288P2	Contact, electrical: male; sim to Molex 1190-T. (Quantity 1).
P10 and P11	4036634P1	Contact, electrical; sim to AMP 42428-2.

*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGE.



INTERCONNECTION DIAGRAM

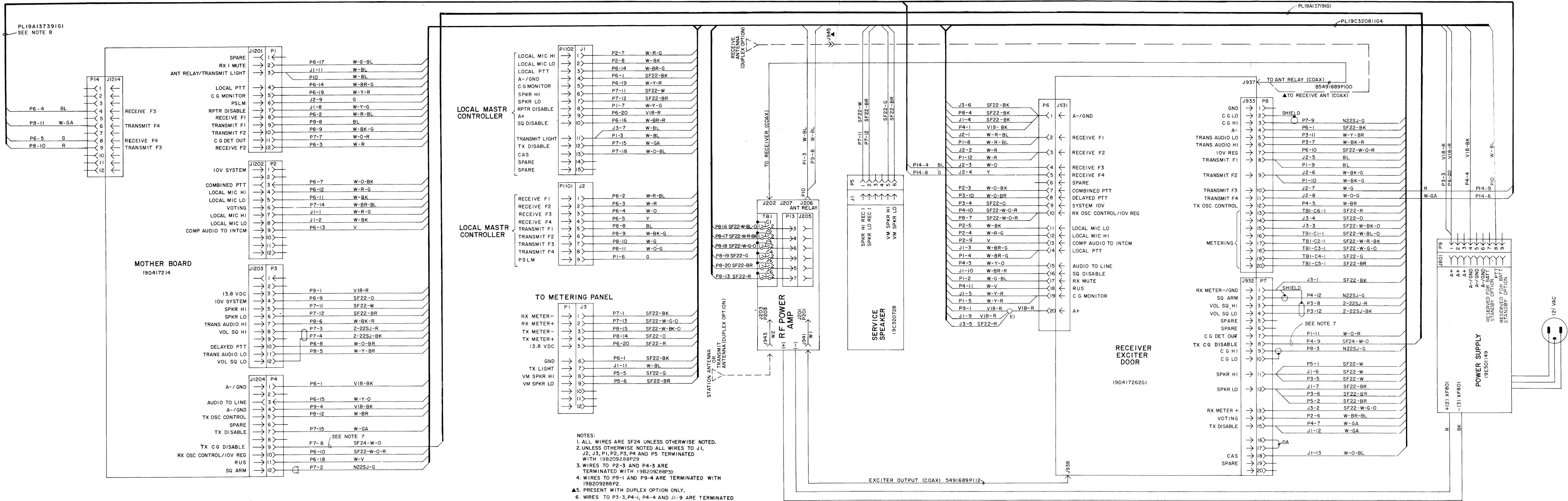
INTERMITTENT DUTY STATION HARNESS WITHOUT METERING

Issue 3

15

INTERCONNECTION DIAGRAM

INTERMITTENT DUTY STATION HARNESS
WITH METERING



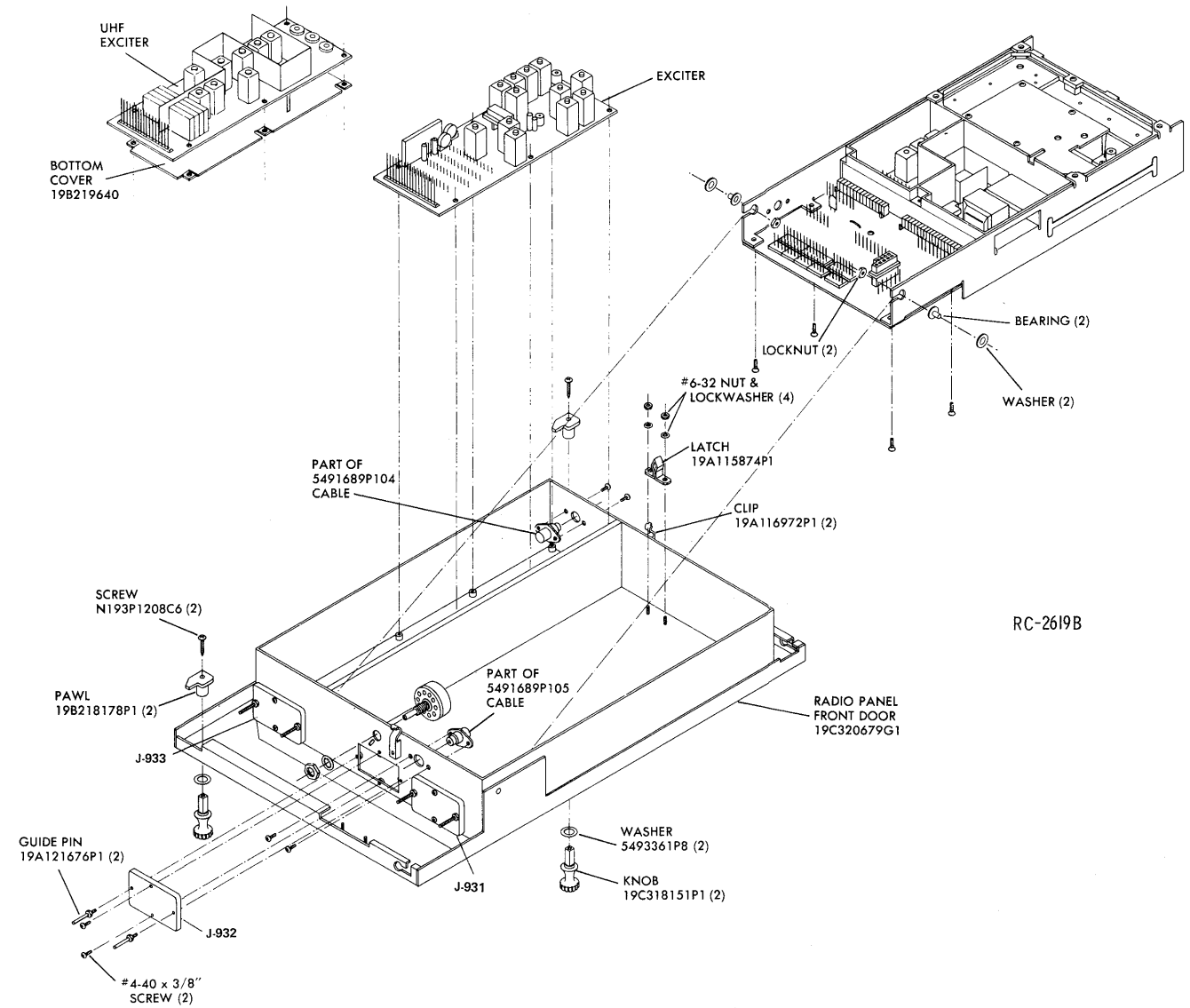
- NOTES:
1. ALL WIRES ARE SF24 UNLESS OTHERWISE NOTED.
 2. UNLESS OTHERWISE NOTED ALL WIRES TO J1, J2, J3, P1, P2, P3, P4 AND P5 TERMINATED WITH 19B209288P29
 3. WIRES TO P2-3 AND P4-3 ARE TERMINATED WITH 19B209288P30
 4. WIRES TO P9-1 AND P9-4 ARE TERMINATED WITH 19B209288P2
 5. PRESENT WITH DUPLEX OPTION ONLY.
 6. WIRES TO P3-3, P4-1, P4-4 AND J1-9 ARE TERMINATED WITH 19B209288P1.
 7. CABLE PL19A137191G1 USED ON 'EACOM' APPLICATION ONLY.
 8. CABLE PL19A137391G1 USED ON 4 FREQ TONE REMOTE AND 4 FREQ TONE REMOTE/REPEAT.

PARTS LIST

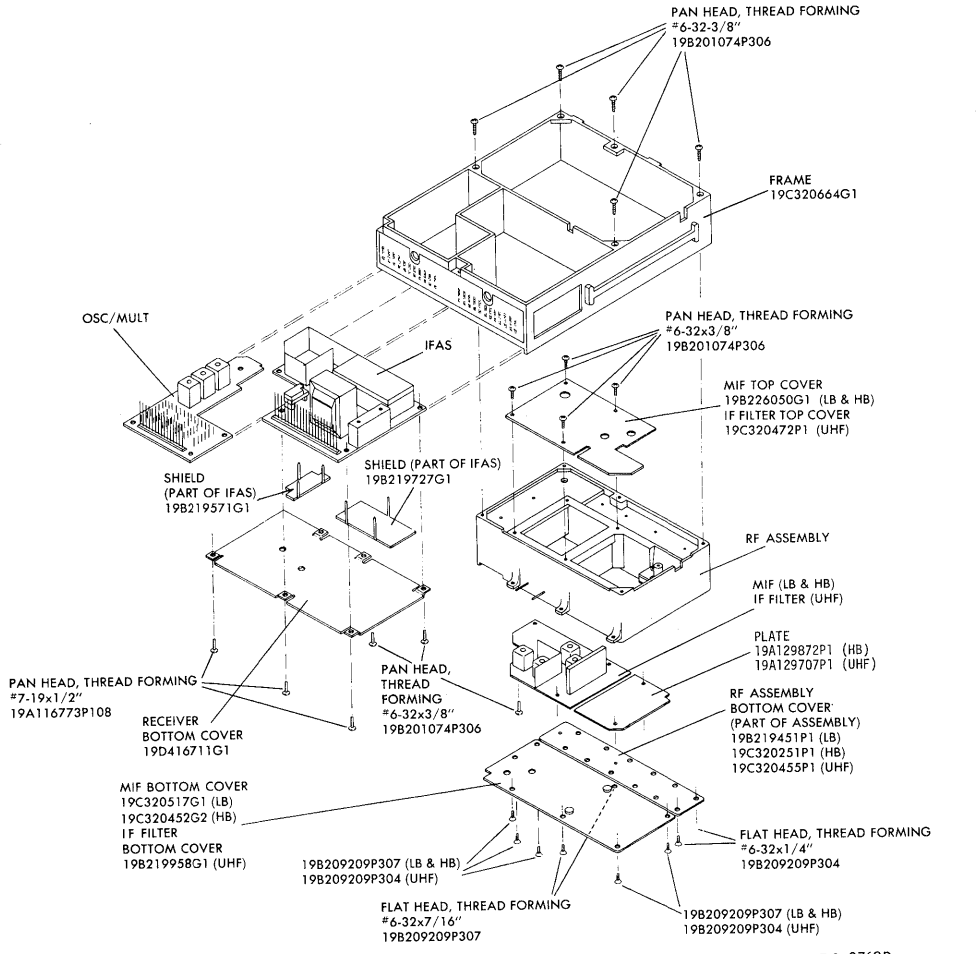
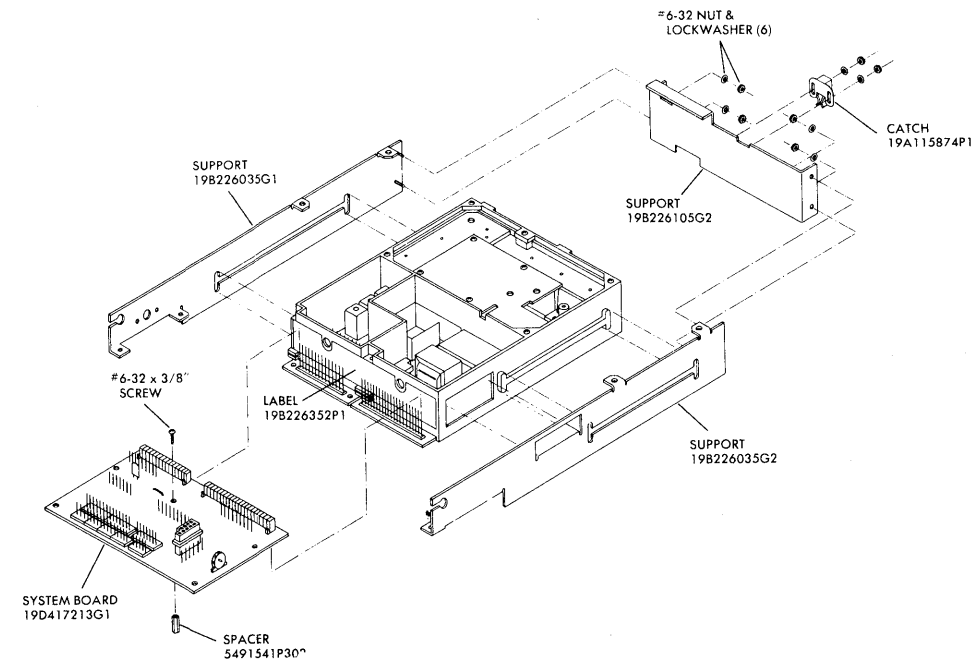
LBI-30073
MASTER II INTERMITTENT DUTY
STATION HARNESS WITH METERING
19C320811G5

SYMBOL	GE PART NO.	DESCRIPTION
----- JACKS AND RECEPTACLES -----		
J1	19B209288P5 5496809P17	Connector. Includes: Shell. Contact, electrical; female; sim to Molex 1381-T. (Quantity 13).
J2	19B209288P3 5496809P17	Connector. Includes: Shell. Contact, electrical; female; sim to Molex 1381-T. (Quantity 9).
J3	19B209288P25 5496809P17	Connector. Includes: Shell. Contact, electrical; female; sim to Molex 1381-T. (Quantity 9).
----- PLUGS -----		
P1	19B209288P20 5496809P17	Connector. Includes: Shell. Contact, electrical; female; sim to Molex 1381-T. (Quantity 11).
P2	19B209288P20 5496809P17	Connector. Includes: Shell. Contact, electrical; female; sim to Molex 1381-T. (Quantity 6).
P3	5496809P18	Contact, electrical; male; sim to Molex 1380-T. (Quantity 1).
P4	19B209288P20 5496809P17	Connector. Includes: Shell. Contact, electrical; female; sim to Molex 1381-T. (Quantity 9).
P5	5496809P18	Contact, electrical; male; sim to Molex 1380-T. (Quantity 1).
P6 thru P8	19C303506P1	Connector. Includes: Shell. Contact, electrical; male; sim to Molex 1380-T. (Quantity 1).
P9	19B209288P4 5496809P18	Connector. Includes: Shell. Contact, electrical; male; sim to Molex 1190-T. (Quantity 1).
P10 and P11	4036634P1	Contact, electrical; sim to AMP 42428-2.
P13	19B219534P1	Connector, plug; 9 male contacts.
TB1	19A130051G1	Plate.

*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES



RC-2619B



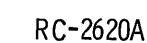
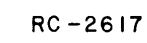
RC-2762B

MECHANICAL PARTS BREAKDOWN

RADIO PANEL FRONT DOOR

Issue 1

18



PARTS LIST

LBI-4975C

DESK MATE STATION CABINET
CONTINUOUS AND INTERMITTANT DUTY
(SEE RC-2805)

SYMBOL	GE PART NO.	DESCRIPTION
30 INCH CABINET		
1	19C320655P1	Top.
2	19C320654P1	Screen.
3		(Not Used).
4		(Not Used).
5	5491682P23	Lock. Yale and Towne F6557DX1.
6	5491682P4	Key. Yale and Towne BF-10A.
7	19C320744G7	Front door.
8	19D417231G3	Cabinet. (LESS DOORS). (Includes items 1 and 2).
9	19A134011P1	Tap screw: No. 10-16 x 3/4. (Quantity 52).
10	7160861P32	Nut, sheet spring; sim to Tinnerman C1794-10Z-24. (Quantity 52).
11	19C320744G8	Rear door.
12	19A134032P1	Protective plug. (Quantity 1).
13	19A134014P6	Bushing, strain relief: sim to Heyco UB-1093.
14	19A134015P1	Protective plug: sim to Caplug BPF-1/2. (Quantity 4).
15	19C311298P1	Frame. (Used with monogram).
16	4031053P7	Nut, sheet spring; sim to Tinnerman C12046-012-67. (Quantity 1).
17	NP257660	Nameplate.
18	NP276429	Nameplate. (GENERAL ELECTRIC).
44 INCH CABINET		
1	19C320655P1	Top.
2	19C320654P1	Screen.
3		(Not Used).
4		(Not Used).
5	5491682P23	Lock. Yale and Towne F6557DX1.
6	5491682P4	Key. Yale and Towne BF-10A.
7	19C320744G9	Front door.
8	19D417231G4	Cabinet. (LESS DOORS). (Includes items 1 and 2).
9	19A134011P1	Tap screw: No. 10-16 x 3/4. (Quantity 52).
10	7160861P33	Nut, sheet spring; sim to Tinnerman C19640-10AB-3B. (Quantity 52).
11	19C320744G10	Rear door.
12	19A134032P1	Protective plug. (Quantity 1).
13	19A134014P6	Bushing, strain relief: sim to Heyco UB-1093.
14	19A134015P1	Protective plug: sim to Caplug BPF-1/2. (Quantity 4).
15	19C311298P1	Frame. (Used with monogram).
16	4031053P7	Nut, sheet spring; sim to Tinnerman C12046-012-67. (Quantity 1).
17	NP257660	Nameplate.
18	NP276429	Nameplate. (GENERAL ELECTRIC).

*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES

PARTS LIST

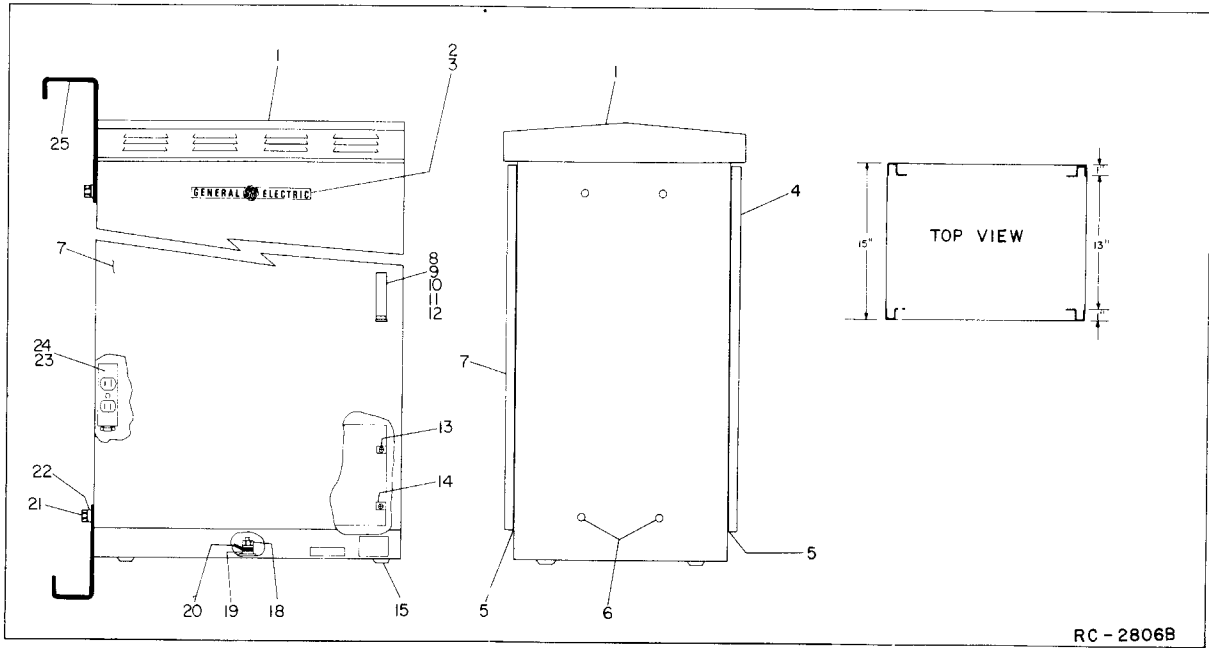
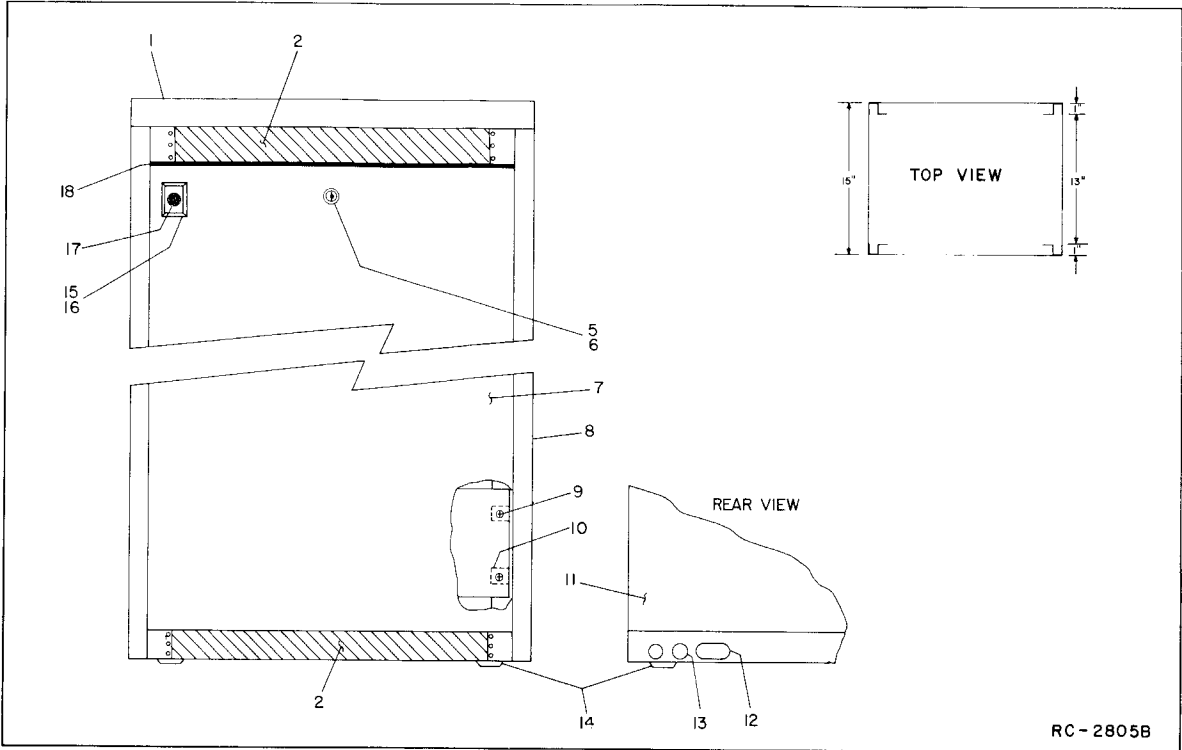
LBI4976D

POLE MOUNT STATION CABINET
CONTINUOUS AND INTERMITTANT DUTY
19D417550G1
(SEE RC2806)

SYMBOL	GE PART NO.	DESCRIPTION
1	19D417550G1	Cabinet.
2	19B209531P1	Nameplate. (GENERAL ELECTRIC).
3	4031310P7	Nut, push on: sim to Tinnerman C610-012-24.
4	19D417543G2	Door, left hand.
5	19A134128P1	Door seal. (Front and rear).
6	19A134059P1	Protective plug.
7	19D417543G1	Door, right hand.
8	19A134049P3	Door handle.
9	7150752P1	Strike catch.
10	N84P15008C6	Machine screw: No. 8-32 x 1/2.
11	N403P16C6	Lockwasher, external tooth: No. 8.
12	N210P15C6	Hex nut: No. 8-32.
13	19A134011P1	Tap screw: No. 10-16 x 3/4. (Quantity 52).
14	7160861P33	Nut, sheet spring; sim to Tinnerman C19640-10AB-3B. (Quantity 52).
15	19A134015P2	Protective plug.
16	NP270697	Nameplate.
17	NP196405	Nameplate.
18	N210P21C6	Hex nut: No. 1/4-20.
19	N403P25C6	Lockwasher, external tooth: 1/4 inch.
20	19A115141P2	Solderless terminal: sim to ILSO SLU70.
21	N22P25016C6	Cap screw: No. 3/8-16 x 1.
22	N405P43C6	Lockwasher, spring type: 3/8 inch.
23	19B226350G1	Outlet strip.
24	19B209103P506	Tap screw: No. 10-32 x 3/8. (Secures outlet strip).
25	19C320942P1	Mounting bracket.

*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES

LBI30775

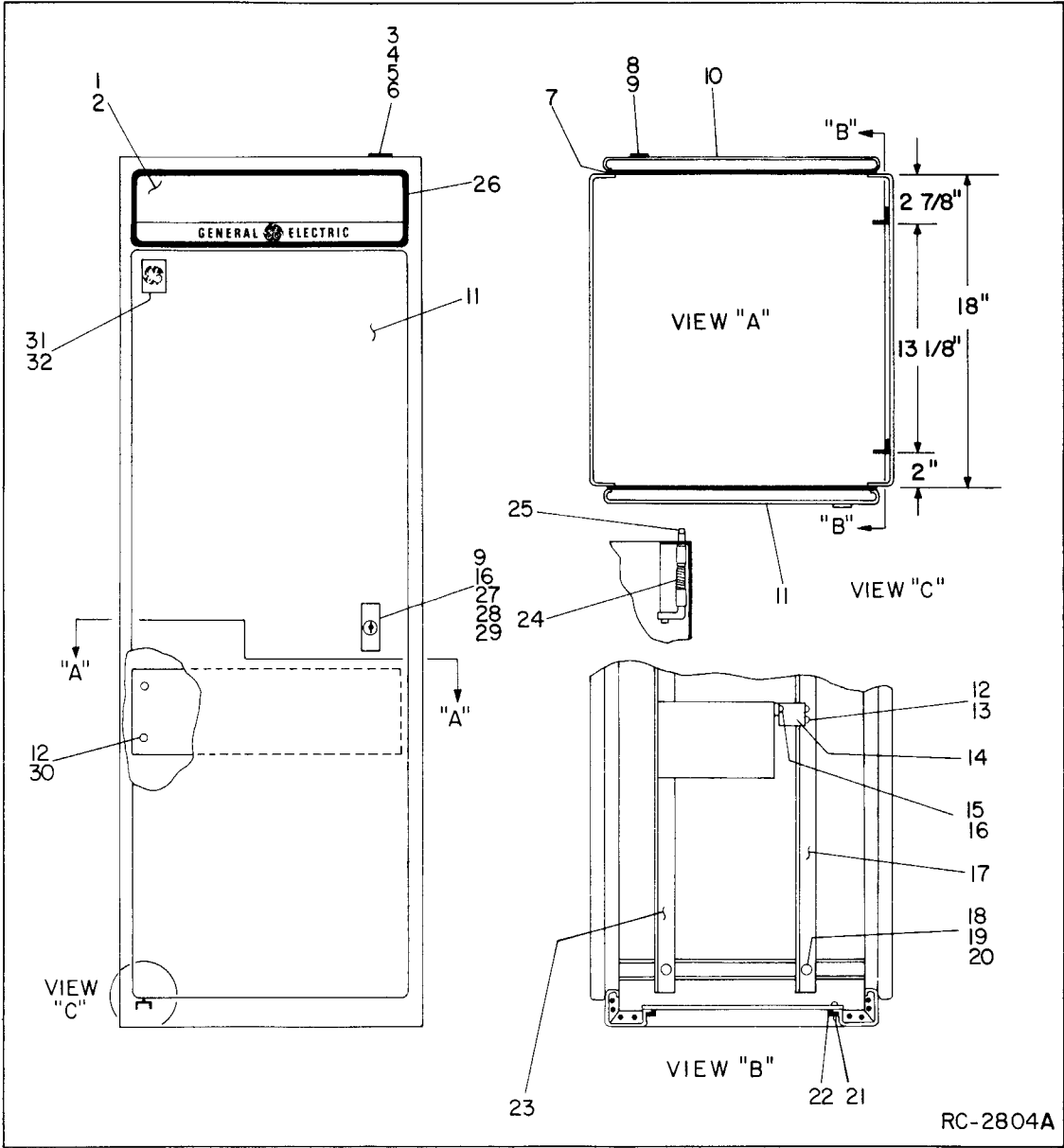


PARTS LIST

LBI4977C

FLOOR MOUNT STATION CABINET
CONTINUOUS AND INTERMITTANT DUTY
19D417358G1
(SEE RC2804)

SYMBOL	GE PART NO.	DESCRIPTION
1	19D417623G1	Grille.
2	19B226318P1	Grille plate. (Located under grille).
3	19B219744G2	Strain relief.
4	N80P15008C6	Machine screw: No. 8-32 x 1/2.
5	N210P15C6	Hex nut: No. 8-32.
6	N403P16C6	Lockwasher, external tooth: No. 8.
7	19A126220P1	Gasket, door.
8	19B209539P2	Lock, rear door: sim to Chicago Lock Co. 1703-6T.
9	19B209539P3	Key. Sim to Chicago Lock Co. 1000 GE.
10	19C320756G2	Door, rear. 64 inch.
11	19C320756G1	Door, front. 59 inch.
12	19A134011P1	Tap screw: No. 10-16 x 3/4. (Quantity 52).
13	7160861P33	Nut, sheet spring; sim to Tinnerman C19640-10AB-3B. (Quantity 16).
14	19B226160P2	Support.
15	N80P16008C6	Machine screw: No. 10-32 x 1/2.
16	N403P19C6	Lockwasher, external tooth: No. 10.
17	19B226094P2	Support.
18	N80P21012C6	Machine screw: No. 1/4-20 x 3/4.
19	N403P25C6	Lockwasher, external tooth: 1/4 inch.
20	N402P41C6	Flatwasher: No. 1/4.
21	N80AP16006C6	Machine screw, panhead: No. 8-32 x 3/8.
22	7160861P5	Nut, sheet spring; sim to Tinnerman C1505-1032-157.
23	19B226094P1	Support.
24	19A129902P1	Spring.
25	19B226088P1	Pin hinge.
26	19B226092G1	Frame.
27	19B209539P1	Lock, front. Sim to Chicago Lock Co. 4260-1.
28	N80P16007C6	Machine screw: No. 10-32 x 7/16.
29	N210P16C6	Hexnut: No. 10-32.
30	7160861P33	Nut, sheet spring; sim to Tinnerman C19640-10AB-3B.
31	NP257660	Nameplate. (GE).
32	4031053P7	Nut, sheet spring; sim to Tinnerman C12046-012-67.



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