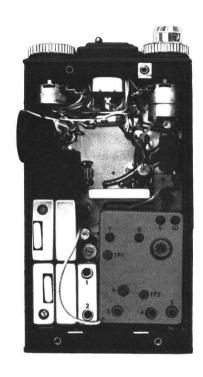
MASTR Personal Series

PE MODELS
SYSTEMS BOARD AND CASE ASSEMBLY 19D413548G2 & G7



SPECIFICATIONS *

MODEL NUMBERS

19D413548G2 19D413548G7 406-470 MHz 470-512 MHz

CONTROLS

Volume ON-OFF Switch
Squelch Control
Two-Frequency Selector Switch
PTT Switch
Tone Option Switch
Collapsible Antenna
Accessory Jack

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

SPECIFICATIONS	Cover
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PARTS LIST & PRODUCTION CHANGES	4
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Figure 1 - Audio Switching	1
Figure 2 - DC Switching	1

---- 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.

DESCRIPTION

System Board A702/A707 provides system interconnections for the transmitter, receiver, tone options and operating controls. In addition to the transmitter modules, the system board contains the system relay, and the audio and DC switching circuitry.

Jacks J702 and J703 are connected to the system board and provide contacts for an external antenna, speaker, and microphone. J702 provides contacts for the external antenna and speaker, and J703 provides contacts for an external microphone. Placing the radio into the vehicular charger automatically connects the jack contacts to the external circuitry. The radio is also connected to the external antenna when placed in the desk charger.

CIRCUIT ANALYSIS

AUDIO SWITCHING

Audio switching for the Speaker/ Microphone LS1 is controlled by diode CR5 as shown in Figure 1.

Pressing PTT switch S701 forward biases diode CR5, permitting audio from LS1 to be applied to transmitter audio module A1.

Keying the external microphone permits audio to be applied directly to the transmitter audio module.

DC SWITCHING

Operation of system relay K1 is controlled by diode CR2 (see Figure 2).

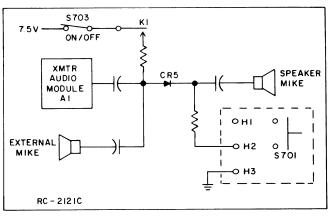


Figure 1 - Audio Switching Circuit

Pressing S701 forward biases CR2, completing the relay path to ground. This energizes relay K1, and switches the battery voltage to the transmitter audio and regulator modules. Energizing K1 also connects the transmitter output to the antenna.

PTT SWITCH (A719)

Solid State PTT switch S701 forward biases diode CR2 to energize relay K1 and key the radio. When S701 is pressed, PNP transistor Q1 conducts. Transistor Q1 conducting applies a positive voltage to the base of NPN transistor Q2, causing Q2 to also conduct. Transistor Q2 conducting, provides a conduction path to ground for diode CR2. Relay K1 is energized and the radio is keyed.

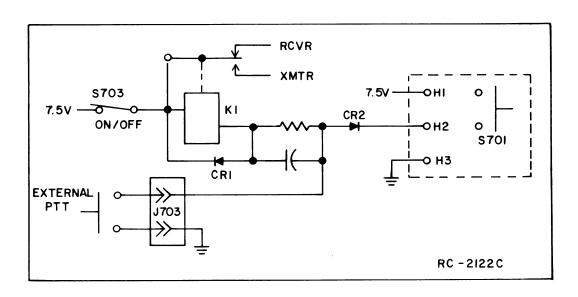


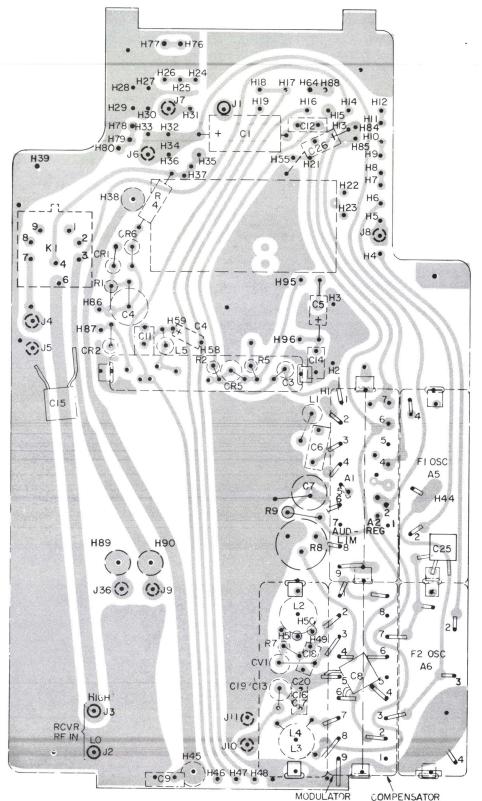
Figure 2 - DC Switching Circuit

COMPONENT SIDE H76 • H77 (0) (J2 . COMPENSATOR MODULATOR (19D416905, Rev. 15) (19D416440, Sh. 1, Rev. 8) (19D146440, Sh. 2, Rev. 8)

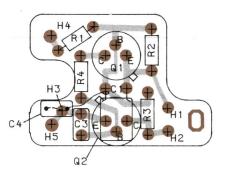
OUTLINE DIAGRAM

2

406—470 MHz SYSTEM BOARD 19D413548G2 470—512 MHz SYSTEM BOARD 19D413548G7 SOLDER SIDE



A719

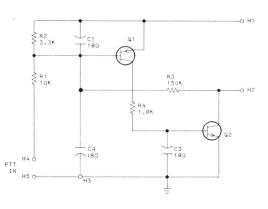


LEAD IDENTIFICATION FOR Q1 AND Q2



IN-LINE TRIANGULAR
TOP VIEW
NOTE: LEAD ARRANGEMENT, AND NOT
CASE SHAPE, IS DETERMINING
FACTOR FOR LEAD IDENTIFICATION.

(19B233083, Rev. 2) (19B232585, Sh. 1, Rev. 0) (19B232585, Sh. 2, Rev. 0)



ALL RESISTORS ARE 1/8 WAIT UNLESS
OTHERWISE SPECIFIED AND RESISTOR
VALUES IN OHMS UNLESS FOLLOWED BY
K-1000 OHMS OR MEG-1,000,000 OHMS.
CAPACITOR VALUES IN PICOPRARDS (EQUAL
TO MICROMICROFARADS) UNLESS FOLLOWED
BY UF-MICROFARADS (UNLESS FOLLOWED
IN MICROMERNYS UNLESS FOLLOWED
IN MICROMERNYS UNLESS FOLLOWED
BY HH-MILL HENDYS OR H-FROMYS.

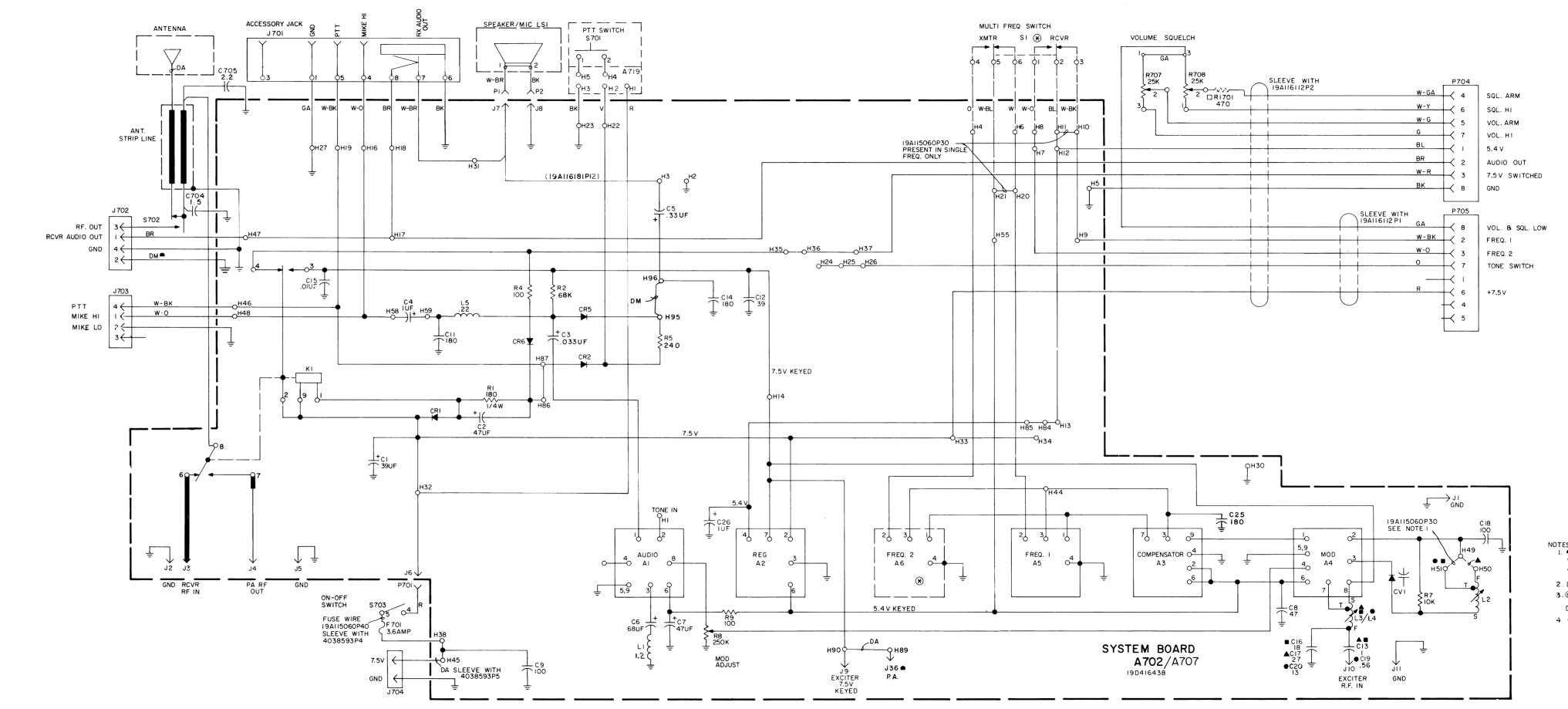
(19B232770, Rev. 3)

(19D416905, Rev. 15) (19D416440, Sh. 2, Rev. 8)

RUNS ON SOLDER SIDE

RUNS ON BOTH SIDES

RUNS ON COMPONENT SIDE



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
PLI9D4I3548G2 J
PLI9D4I3548G7 H
PLI9D4I6438GI M
PLI9D4I6438G4 M

ALL RESISTORS ARE 1/8 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.

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.

I. OUSED IN HI POWER UNITS ONLY OUSED IN 450 EXT. 470-512 MHZ

- AUSED IN LO SPLIT 406-420 MHZ
 USED IN HI SPLIT 450-470 MHZ
- 2. DA = #22 AWG
- 3. THESE ITEMS ARE PART OF SWITCH KIT 19A127828GI
- 4. GND MAY BE MADE THROUGH CAN ONLY, ON SICOMS

SCHEMATIC DIAGRAM

406—470 MHz SYSTEM BOARD 19D413548G2 470—512 MHz SYSTEM BOARD 19D413548G7

PARTS LIST	
LB14531D	
SYSTEM BOARD/CASE ASSEMBLY 19D413548G2, G7 AND ASSOCIATED ASSEMBLIES	

SYMBOL	GE PART NO.	DESCRIPTION
A702 and A707		SYSTEM BOARD A702 19D416438G1 450 MHz A707 19D416438G4 450 MHz EXT.
A1	19C320062G1	Transmitter Audio Module.
A2*	19C328070G1	Regulator Module.
	19C311905G2	In REV K & earlier: Regulator Module.
A3	19C320060G1	Oscillator Compensator Module.
A4	19C320084G1	Modulator Module.
		NOTE: When reordering A5, A6 give GE Part Number and exact crystal frequency. Crystal Freq = Operating Freq 24
A5 and A6	4EG27All	Transmitter Oscillator.
C1	5491674P30	Tantalum: 39 μ f $\pm 20\%$, 10 VDCW; sim to Sprague Type 162D.
C2	5491674P42	Tantalum: 47 μf $\pm 20\%$, 6 VDCW; sim to Sprague Type 162D.
C3*	5491674P51	Tantalum: 0.033 μ f \pm 10%, 35 VDCW; sim to Kemet T376B333K035AS.
	5491674 P4 9	In REV G $_{\Sigma}$ H: Tantalum: 0.068 $_{\mu}$ f $_{\pm}$ 10%, 20 VDCW; sim to Sprague Type 162D.
	5491674P1	In REV F & earlier: Tantalum: 1.0 µf +40-20%, 10 VDCW; sim to
C4	5491674Pl	Sprague Type 162D. Tantalum: 1.0 µf +40-20%, 10 VDCw; sim to Sprague Type 162D.
C5*	5491674P52	Tantalum: 0.33 μf ±10%, 20 VDCW; sim to Kemet T376B334K020AS.
	5491674P48	In REV G \dot{x} H: Tantalum: 0.68 μ f \pm 10%, 10 VDCW; sim to Sprague Type 162D. In REV F x earlier:
	19A116244P2	Ceramic: 0.022 \(\text{\psi} \) f \(\pm 20\) f, 50 VDCW.
C6	19C307102P19	Tantalum: 68 ±20%, 4 VDCW.
C7	5491674P42	Tantalum: 47 μf $\pm 20\%$, 6 VDCW; sim to Sprague Type 162D.
C8	19A116114P7053	Ceramic: 47 pf ±5%, 100 VDCw; temp coef -750 PP
C9	19A116114P7065	Ceramic: 100 pf ±5%, 100 VDCW temp coef -750 PPM.
C11	19A116114P10073	Ceramic: 180 pf ±10%, 100 VDCW; temp coef -3300 PPM.
C12	19A116114P2049	Ceramic: 39 pf ±10%, 100 VDCW; temp coef -80 PP
C13	5491601P120	Phenolic: 1.0 pf ±5%, 500 VDCW.
C14	19A116114P10073	Ceramic: 180 pf ±5%, 100 VDCW; temp coef -3300 PPM.
C15	19A116192P1	Ceramic: 0.01 μf $\pm 20\%$, 50 VDCw; sim to Erie 8121 SPECIAL.
C18	19A116114P8065	Ceramic: 100 pf ±5%, 100 VDCW; temp coef -1500 PPM.

IBOL	GE PART NO.	DESCRIPTION	SYMBOL	GE PART NO.	DESCRIPTION
,	19A116114P2035	Ceramic: 13 pf ±5%, 100 VDCw; temp coef -80 PPM.	R5*	3R151P241J	Composition: 240 ohms ±5%, 1/8 w.
2* ru 1 *	19A116114P10073	Ceramic: 180 pf ±5%, 100 VDCW; temp coef -3300 PPM. Added by REV J. Deleted by REV L.		3R151P103J	In REV F & earlier: Composition: 10K ohms ±5%, 1/8 w.
5*	19A116114P10073	Ceramic: 180 pf ±5%, 100 VDCw; temp coef -3300 PPM. Added by REV J.	R6*	3R151P222J	Composition: 2.2K ohms ±5%, 1/8 w. Deleted by REV G.
6*	5491674P1	Tantalum: 1.0 µf +40-20%, 10 VDCW; sim to Sprague Type 162D. Added by REV L.	R7	3R151P103J 19A116412P4	Composition: 10K ohms ±5%, 1/8 w. Variable, cermet: 250K ohms ±10%, 1/2 w; sim to
		DIODES AND RECTIFIERS		1	Helipot Model 62 PF.
1 i 2	19A115100P1	Silicon; sim to Type lN458A.	R9	3R151P101K	Composition: 100 ohms ±10%, 1/8 w.
5	19A115100P1	Silicon; sim to Type 1N458A.	XK1*	19A115834P5	Contact, electrical: sim to AMP 4-331272-3. (Quantity 7). Deleted by REV D.
5	19A115250P1	Silicon, fast recovery, 225 mA, 50 PIV.	47104		NIGH TO TALK GALTON DOADS
	5495769P9	Diode, silicon.	A719*		PUSH TO TALK SWITCH BOARD 19B232586G2 (Added to G2 by REV J, G7 by REV H)
		JACKS AND RECEPTACLES			
ru •	19A116366P4	Contact, electrical: sim to Concord 10-891-1. In REV C & earlier:	C3	19A116114P10073	
	19A116366P1	Contact, electrical: sim to Cambion 3232-1.	C5	19A116114P2044	Ceramic: 27 pf ±5%, 100 VDCw; temp coef -80 PPM.
ru	19A116366P2	Contact, electrical: sim to Cambion 3233-1.			
	19A116366P4	Contact, electrical: sim to Concord 10-891-1.	Q1	19A129187P1	Silicon, PNP.
u *	13411030014	In REV C & earlier:	Q2	19A116201P3	Silicon, NPN.
	19A116366P1	Contact, electrical: sim to Cambion 3232-1.			
	19A116366P4	Contact, electrical: sim to Concord 10-891-1.			RESISTORS
		Added by REV D.	R5	3R151P682J	Composition: 6.8K ohms ±5%, 1/8 w.
			R6	3R151P182J	Composition: 1.8K ohms ±5%, 1/8 w.
	19B209562P2	Relay, hermetic sealed: between 70-110 ohms ±10%,	R7	3R151P751J	Composition: 750 ohms ±5%, 1/8 w.
		2 form C contacts, 5.0 VDC nominal, 1.0 w max operating; sim to Teledyne 732-2A4.	R8	3R151P154J	Composition: 150K ohms ±5%, 1/8 w.
		In REV F-L:	R9	3R151P122J	Composition: 1.2K ohms ±5%, 1/8 w.
	19B209562P3	Relay, hermetic sealed: between 70-110 ohms ±10%, 2 form C contacts, 5.0 VDC nominal, 1.0 w max operating; sim to GE 3SCS1002A2.	A719*		PUSH TO TALK SWITCH BOARD 198232586G1 (Added to G2 by REV H, G7 by REV G)
		In REV E:			(Deleted in G2 by REV J, G7 by REV H)
	19B209562P2	Relay, hermetic sealed: between 45 and 100 ohms, 2 form C contacts, 5.0 VDC nominal, 1.0 w max operating; sim to Teledyne 732-2A4.	C1	19All6114P10073	
		In REV D:		104116114710072	PPM.
	19B209562Pl	Relay, hermetic sealed: 98 ohms ±10%, 2 form C contacts, 6.0 VDC nominal, 1.0 w max operating; sim to GE 3SCS1001A2. Added by REV D.	C3	19A116114P10073	Ceramic: 180 pf ±10%, 100 VDCW; temp coef -3300 PPM. Ceramic: 180 pf ±10%, 100 VDCW; temp coef -3300
					PPM. Added by REV A.
	19B209420P114	Coil, RF: 1.20 µh ±10%, 0.18 ohms DC res max;			
	1002007207117	sim to Jeffers 4436-lK.	Q1	19A129187P1	Silicon, PNP.
	19A127798G2	Coil. Includes:	Q2	19A116201P3	Silicon, NPN.
	19B209436P1	Tuning slug.			
	19B219527G1	Coil.	R1	3R151P103J	Composition: 10K ohms ±5%, 1/8 w.
	19B219527G3	Coil.	R2	3R151P332J	Composition: 3.3K ohms ±5%, 1/8 w.
	19B209420P105	Coil, RF: 0.22 µh ±10%, 0.14 ohms DC res max; sim to Jeffers 4416-5K. Added by REV H.	R3	3R151P154J	Composition: 150K ohms ±5%, 1/8 w.
			R4	3R151P182J	Composition: 1.8K ohms ±5%, 1/8 w.
	3R152P181J	Composition: 180 ohms ±5%, 1/4 w.			
		In REV D:	F701	19A127884G1	Fuse Kit.
	3R152P221J	Composition: 220 ohms ±5%, 1/4 w.		1	
		In REV C & earlier:	C701*	19A116114P2007	Ceramic: 2.2 pf ±10%, 100 VDCW; temp coef -80 Pl
	3R151P391J	Composition: 390 ohms ±5%, 1/8 w.			Added to G2 by REV D, G7 by REV C. Deleted in G2 by REV G. Deleted in G7 by REV F.
	3R151P683J	Composition: 68K ohms ±5%, 1/8 w. In REV F x earlier:	C702*	19A116114P4	Ceramic: 1.5 pf ±5%, 100 VDCw; temp coef 0 PPM. Added to G2 by REV D, G7 by REV C. Deleted in G2
		· · · ·	1	1	by REV G. Deleted in G7 by REV F.
	3R151P913J	Composition: 91K ohms ±5%, 1/8 w.		I .	
	3R151P913J 3R151P101K	Composition: 91K ohms ±5%, 1/8 w. Composition: 100 ohms ±10%, 1/8 w.	C704*	19A116114P2004	Ceramic: 1.5 pf ±5%, 100 VDCW; temp coef -80 PF Added to G2 by REV G. Added to G7 by REV F. Ceramic: 2.2 pf ±5%, 100 VDCW; temp coef -80 PP

SYMBOL	GE PART NO.	DESCRIPTION	SYMBOL	GE PART
		IACKS AND DECEMBACIES		
J701	19B216594G2	JACKS AND RECEPTACLES Connector, female: 6 contacts.		
J702	19821039402	See Mechanical Parts RC2147 items 14, 16.		104110540
J703		See Mechanical Parts RC2147 Items 14, 10.	1 2	19A1165431
J704		See Mechanical Parts RC2147 Items 51-53.	3	19C3173941 19B2045271
0101			3	N681P50020
	İ	RELAYS	5	19A127319
K1*	19A127836G1	Relay, sensitive: 95 ohms ±10%, 2 form C contacts, 5.5 to 9.0 VDC (over the temp range	6	4037064P18
		indicated); sim to C.P. Clare MF1401G01. Deleted in G2 by REV D, G7 by REV C.	7	N70P703C6
		11 02 07 127 07 127 07	'	19B2327840
			l °	19B2327840 19B2199530
P701	19A115834P4	Contact, electrical: sim to AMP 2-332070-9.	"	1982199530
P704 and	19A127569G1	Plug: 8 contacts.	9A	1982095481
P705			9B	19B219887
		RESISTORS		100010055
R707	19A116227P1	Resistor/Switch: variable, carbon film, 25,000 ohms ±20%, 1/8 w, (Includes S703), SPST, 3 amps	9C	19B2199550
		at 125 VAC.	9D	1982199540
R708	19A116227P2	Variable, carbon film: 25,000 ohms ±20%, 1/8 w.	10	19D4135311
			1,,	1982265021
S701		See Mechanical Parts RC2147, items 32-38.	111	NP270290P2
S702		See Mechanical Parts RC2147, items 38-46.	1,,	NP270290P3
\$702 \$703		(Part of R707).	12	19D4135420
3703		(Part of Mior).	13	19B216858I
		1	14	19A1277531
		ASSOCIATED ASSEMBLIES	15	19A1167191
		FRONT COVER ASSEMBLY	16	19B216862I
		19C317416G1 (STD) 19C317416G3 (HI POWER)	17	19A1277790
		1	18	19B2168751
		LOUDS PEAKERS	19	19A1296491
LS1	19A116090P1	Permanent magnet: 2.00 inch, 8 ohms ±10% voice coil imp, 450 Hz ±112 Hz resonant; freq range	20	1982196501
		400 to 3000 Hz.	21	19A1296521
Pl	19A115834P4	Contact, electrical: sim to AMP 2-332070-9.	22	19C3203521
and P2			23	19C3170501
		AND A SERVICE MODERNOON WITH	24	19A1293901
		HI/LOW SPLIT MODIFICATION KIT 19A127838G3 450-470 MHz	25	19C3173831
		19A127838G4 406-420 MHz	26	19A1297231
			27	19B219540I
C16	19A116114P2038	Ceramic: 18 pf ±5%, 100 VDCw; temp coef -80 PPM.	28	19C3207211
C17	19A116114P2044	Ceramic: 27 pf ±5%, 100 VDCW; temp coef -80 PPM.	29	19B2169260
		THE TAX TREGUENCY HODI FIGATION FIR	30	19A115983I
		MULTI-FREQUENCY MODIFICATION KIT 19A127828G1	31	N509P606C
		044.77	32	N41P1006
			33	19C3284160
S1	19A127824G1	Toggle: DPDT, 100 µa at 5 VDC, mounting hardware; sim to Arrow-Hart and Hegeman TS-6.	34	19C3284071
			35	19A1376211
		MISCELLANEOUS	36	19A1376201
	19B216897G1	Rear Cover Assembly. (See RC2147, items 58, 59).	37	N55P1006
	19B216897G2	Rear Cover Assembly. Clip type. (See RC2147, items 58, 60).	38	1982096431
	19B219953G4	Antenna, telescoping. (See RC2147, items 7, 19-22).		
	19D413522G4	Battery, rechargeable. Nickel Cadmium.	39	19B2168651
	19A127884G1	Fuse Kit.	40	N647P50040

Alignment tool. Fork tip.

Alignment tool. Allen tip.

Antenna strip line.

4038381P4

19B219442P1

DESCRIPTION	SYMBOL	GE PART NO.	DESCRIPTION
MECHANICAL PARTS	44	19A127754Pl	Gasket. (Part of S702).
(SEE RC2147)	45	19A127755Pl	Spring. (Part of S702).
screw, socket head: No. 2-56 x 1/4.	46	19B216862P1	Contact. (Part of S702).
	47	N330P605F22	Eyelet, brass: 1/16 x 5/32.
m: No. 2 inches dia.	48	N330P602F22	Eyelet, brass: 1/16 x 1/16.
llips head: No. 2-56 x 1/8.	49	19A127760Pl	Contact. (Part of J703).
1/4-32.	50	19A127762P1	Strap.
-metallic.	51	19B216891G1	Spring assembly. (Part of J704).
: No. 3-48 x 3/16.	52	19D413467P1	Fastener. (Part of J704).
mbly.	53	19A115794P3	Flat head screw: steel, 2-56 x 5/16. (Part of J704).
telescoping. (Includes items 7, 19-22).	54		(Not Used).
oring whip; sim to Antenna Specialists, S21 GE.	55	19C311491P3	Can. (Used with Regulator, Oscillator Compensator, & Compressor Circuits).
pring whip; sim to Antenna Specialists, R22GE.	56		(Not Used).
flex wire.	57	19A116270P1	Tape, pressure sensitive.
solid whip.	58	19C317394P5	Gasket.
(STD).	59	19B216897G1	Rear Cover Assembly. (without clip).
(HI POWER).	60	19B216897G2	Rear Cover Assembly. (with clip).
. (STD GE monogram).	61	19A130586Pl	Insulator.
(HI POWER GE monogram).	62	19A130397P1	Strap.
ly. (Includes items 14, 15, 18, 26,	63	N404P8P	Lockwasher, internal tooth: No. 2.
48).	64	19A130993P1	Gasket.
	65	19A137254P1	Insert, tapped.
art of J702 x J703).	66	4035630Pl	washer: teflon.
rew thread: 2-56; sim to Tridair Ind.	67	N70BP703C6	Set screw: No. 3-48 x 3/16.
Part of J702).	68	19A116773P805	Tap screw, Phillips POZIDRIV®: No. 4-24 x 5/16.
insert.	69	19A127802P1	Rivet, shield.
	70	N170P9004C17	Cap screw: No. 4-40 x 1/4.
ap. (Part of item 9).			
rod. (Part of item 9).			

Antenna Cap. (Part of item 9). Antenna rod. (Part of item 9).

Bushing. (Part of item 9).

Disc. (Located inside item 23).

Seal, "O" ring: sim to Parker Seal 2-10.

Screw, slotted, steel: No. 0-80 x 3/8. (Part of

Machine screw: 0 x 80 x 3/8. (Part of S701). Switch, push: 200 milliohms res max; sim to Bowmar KB3256-lD. (Part of S701).

Cap screw: 2-56 x 1/4. (Part of S702).

Nut, knurled: thd size No. $7/16 \times 40$. (Part of item 9).

Protective Cover.

Boot, moisture seal.

Dowel pin: 1/16 x 3/8.

Collar. (Part of S701).

Plate. (Part of S701). Spring. (Part of S701).

Insulator. (Part of S702).

Contact. (Part of S702).

Spring contact. (Part of S702).

Retaining ring. (Part of S702).

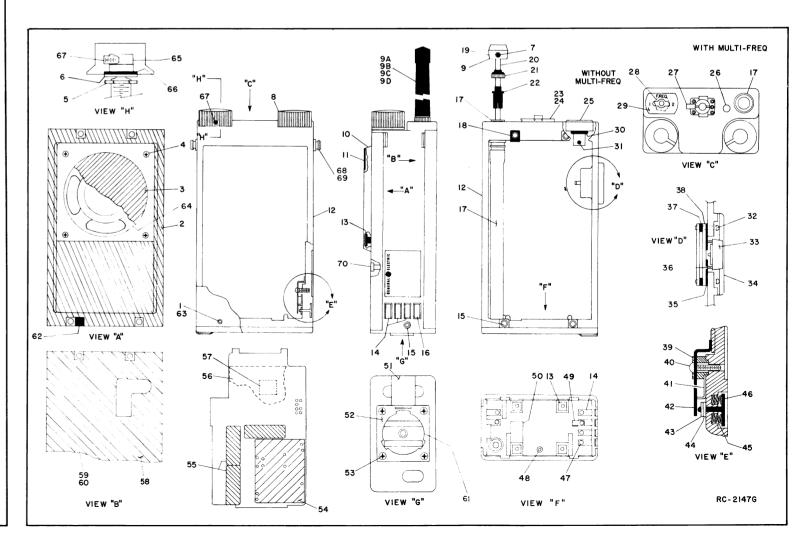
19B216864Pl

19B216863Pl

N910P6C6

Button Assembly. (Part of S701).

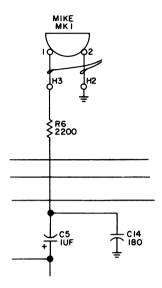
Decorative cap.



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 - System Board A702/A707 (19D416438G1, G4)
To increase mike sensitivity. Deleted MK1.
Changed C5.

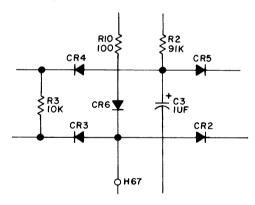
Schematic Was:



REV. B - To add call outs for holes.
Added H76 through H80.

REV. C - To improve transmitter FM hum & noise. Deleted CR3, CR4 and R3

Schematic was:



REV. D - To make compatible with more Options.

Deleted XK1. Added K1 and changed R1.

REV. A & B - Case Assembly 19D413548G2

REV. A - Case Assembly 19D417548G7

Incorporated in initial shipment.

REV. C - Case Assembly 19D413548G2

REV. B - Case Assembly 19D413548G7

To incorporate a Vendor changes of accessory jack. Changed J701 on Outline Drawing.

REV. D - Case Assembly 19D413548G2

REV. C - Case Assembly 19D413548G7

To make compatible with more options. Changed Kl, increased size of runs on printed wire board and changed mounting pins.

REV. E - Case Assembly 19D413548G2

REV. D - Case Assembly 19D413548G7

To prevent accidental shorts of battery pack to ground. Added insulator to battery connector J704.

REV. F - Case Assembly 19D413548G2

REV. E - Case Assembly 19D413548G7

To incorporate metal nuts for PTT switch mounting screws. Added nuts.

REV. G - Case Assembly 19D413548G2

REV. F - Case Assembly 19D413548G7

To improve performance. Deleted C701 and C702. Added C704 and C705.

REV. E - System Board 19D416438G1, G4

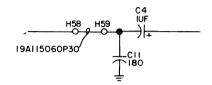
To improve relay pick-up performance. Changed K1 and R1.

REV. F - To reduce RF losses. Changed Kl.

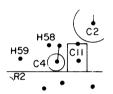
REV. G - To improve frequency response. Deleted R6. Changed C3, C5, R2 and R5.

REV. H - To reduce susceptability to internal RFI.
Added L5.

Schematic Was:



Outline Was:



REV. J - To reduce susceptability to internal RFI.
Added C22-C25.

REV. K - To improve speech clarity by optimizing frequency response. Changed C3 and C5.

REV. L - To incorporate a new 5.4 V regulator module. Changed A2 and added C26.

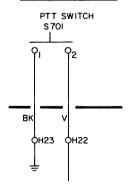
REV. M - To incorporate a more reliable relay. Changed K1.

REV. H - Case Assembly 19D413548G2.

REV. G - Case Assembly 19D413548G7

To improve reliability of push-to-talk switch. Changed S701 and added A719. Also changed knobs.

Schematic Diagram was:



REV. J - Case Assembly 19D413548G2

REV. H - Case Assembly 19D413548G7

To re-design board to accept GE-STAR Option. Added C33.

REV. A - PTT Switch 19B232386G1

To prevent RFI. Added C4.