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- f. Check for a receiver current drain of approximately 300 mA with no signal input.

#### 6.4.4 Audio

- a. Set the Squelch control fully counterclockwise, the Volume control fully clockwise and set the AC VTVM to the 3 volt scale.
- b. Set the signal generator output level for  $0.5\mu\text{V}$  modulated 30% with 1 kHz.
- c. The audio output indication on the VTVM should be 0.55 volts minimum (-3 dB).

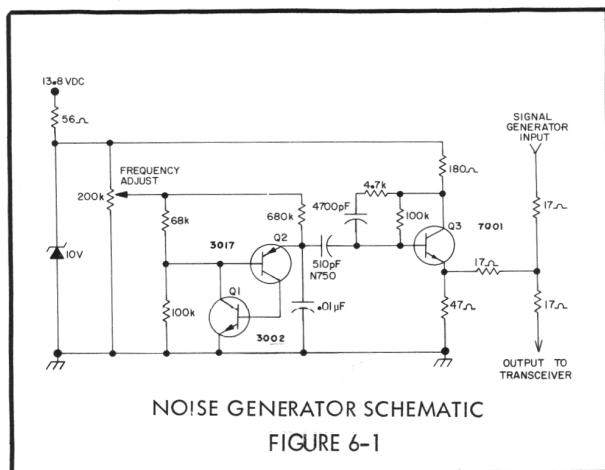
#### 6.4.5 Tight Squelch

- a. Set the channel selector switch to channel 11 and adjust the Squelch control to maximum clockwise. Set the Volume control to approximately midrange.
- b. Set the signal generator output level to  $100\mu\text{V}$  modulated 30% with 1 kHz and connect it to the antenna connector.
- c. Adjust R72 for squelch opening at  $100\mu\text{V}$  ( $50\mu\text{V}$  minimum and  $200\mu\text{V}$  maximum).
- d. Reduce the signal generator output level to  $50\mu\text{V}$ , the squelch should close. If unable to obtain this performance, adjust R72 and repeat steps c and d.

#### 6.4.6 Noise Blanker

Figure 6-1 shows the schematic of a pulse generator which can be assembled and used to check the performance of the Noise Blanker. A quick check of the Noise Blanker can be conducted as follows:

- a. Set the signal generator for an "on channel" frequency with  $1\mu\text{V}$  output (the three 17 ohm resistors in the pulse generator form a 6 dB pad) and connect it to the pulse generator.



- b. Turn the pulse generator on and adjust the frequency to 100 Hz.
- c. Connect the transceiver to the pulse generator output and switch the Noise Blanker switch on and off for an audible indication of its effectiveness.
- d. If there is no appreciable noise pulse reduction proceed to troubleshoot the Noise Blanker circuit.

## 6.5 TRANSMITTER TUNEUP

Connect the test setup as shown in Figure 5-2.

### 6.5.1 Predriver and Driver

- a. Connect the RF voltmeter to the base of Q18 and key the transmitter.
- b. Adjust T15, T16 and T17 for a maximum meter reading.

### 6.5.2 Power Amplifier

- a. Connect the wattmeter and dummy load to the antenna connector.
- b. Key the transmitter and adjust T19, T18 and L10 for maximum power output.
- c. Connect an ammeter in Q20 collector lead and adjust L9 for 3.8 watts with the power amplifier collector current 410 mA or less.

### 6.5.3 Transmit Meter Adjust

- a. Connect a dummy load to the antenna connector and key the microphone.
- b. Adjust R39 for a meter reading of 4 with no modulation. The meter should deflect upscale with modulation.

## 6.6 TRANSMITTER PERFORMANCE TEST

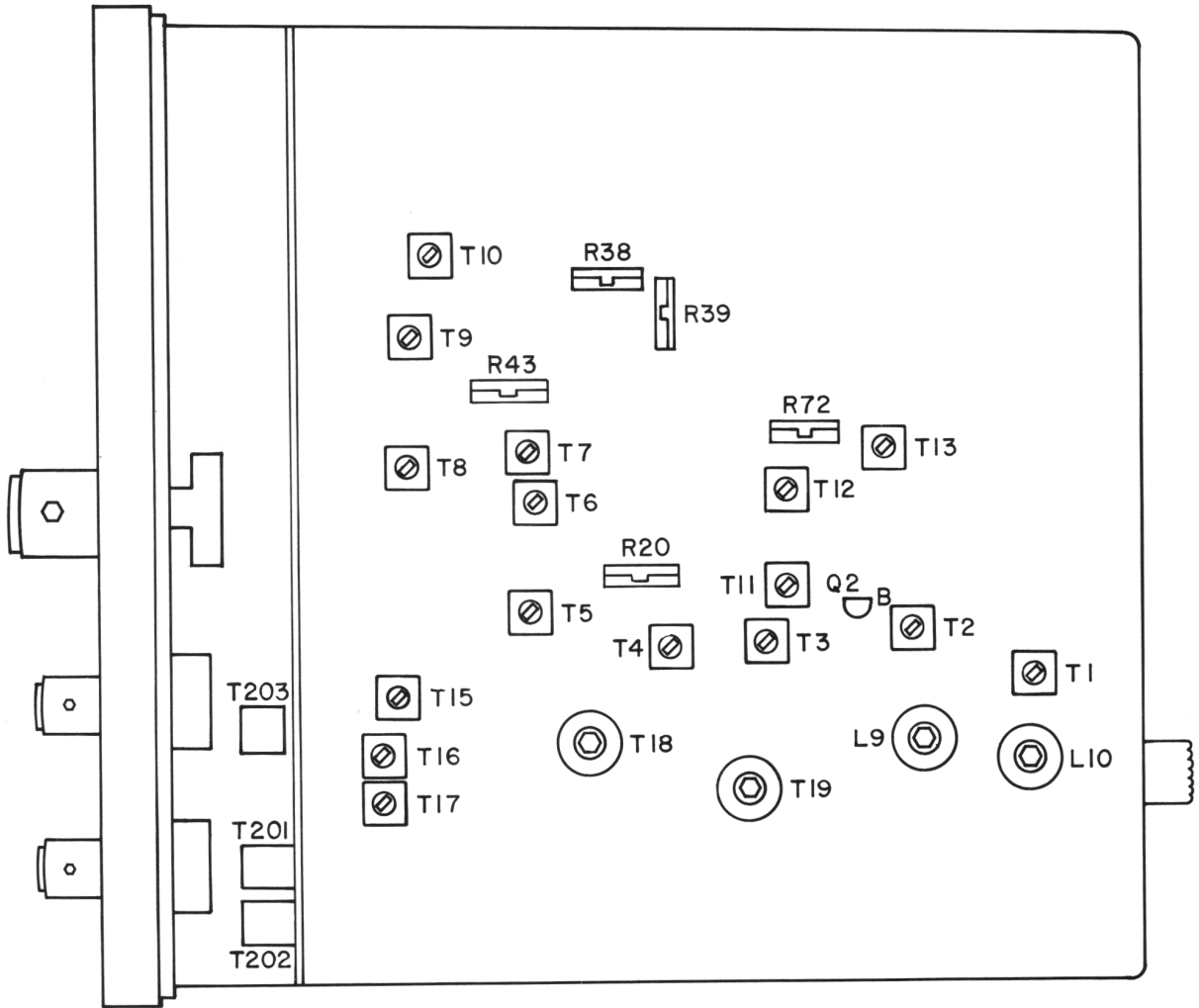
Connect the test setup as shown in Figure 5-2 and refer to Table 5-1 for suggested test equipment.

### 6.6.1 RF Power Output

Key the transmitter and check for an RF power output of between 2.8 and 3.8 watts with no modulation. The transmitter should draw a maximum of 970 milliamperes. The final power amplifier, Q20, collector current should not exceed 410 milliamperes.

### 6.6.2 Transmitter Frequency

- a. Connect a dummy load to the antenna connector and loop couple a frequency counter to L10.



ALIGNMENT POINTS  
COMPONENTS SIDE VIEW

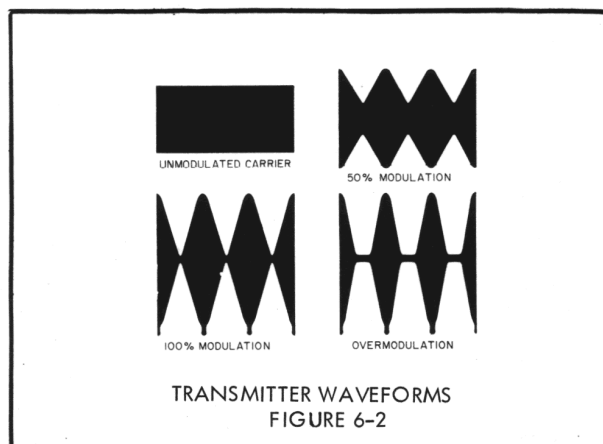
- b. Key the transmitter and count the unmodulated carrier frequency on channels 1, 6, 11, 16, 20 and 23. Refer to Table 6-2 for the transmitter channel frequencies.

Channel No.	Low Limit (kHz)	Frequency (MHz)	High Limit (kHz)
1	26,963.652	26.965	26,966.348
6	27,023.649	27.025	27,026.351
11	27,083.646	27.085	27,086.354
16	27,153.643	27.155	27,156.357
20	27,203.640	27.205	27,206.360
23	27,253.638	27.255	27,256.362

- c. If the transmitter frequencies are out of tolerance, refer to paragraph 5.3.3.

#### 6.6.3 Transmitter Modulation

- a. Loop couple the oscilloscope to L10 and refer to Figure 6-2 for transmitter waveforms.



- b. Apply a 1000 Hz tone through a  $1\mu\text{F}$  coupling capacitor to the base of Q15 at a level of 0.8mV. The oscilloscope waveform should indicate approximately 50% modulation.
- c. Increase the audio level to 5.2mV (16 dB over 50% modulation). The modulation waveform should indicate 70% modulation minimum.

## SECTION 7 PARTS LIST

SYMBOL NO.	DESCRIPTION	PART NO.	SYMBOL NO.	DESCRIPTION	PART NO.
BRACKETS					
BK 1	Bracket, PC board front support	017-1821-001	C79	4700 pF, ±10%, 1KV Y5S disc	510-3061-472
BK 2	Mtg. bracket, transceiver	017-1363-001	C81	0.010μF, ±20%, 16V Y5S disc	510-3010-103
BK 3	Bracket, speaker mounting	017-1836-001	C82	Same as C81	
BK 4	Lampholder, DS201	023-3407-002	C83	100μF 10V aluminum	510-4003-005
BK 5	Bracket, meter mounting	017-0439-001	C84	22μF, ±20%, 15V tubular	510-2003-220
BK 6	Lampholder, DS202, DS203	023-3407-001	C85	0.010μF, ±20%, 16V Y5S disc	510-3010-103
CAPACITORS					
C1	0.010μF, ±20%, 16V Y5S disc	510-3010-103	C86	220μF 16V aluminum	510-4006-004
C3	Same as C1		C87	2200 pF ±10% 500V Y5S disc	510-3061-222
C4	6.8μF ±10%, 35V dipped	510-2045-689	C89	220μF 16V aluminum	510-4006-004
C5	0.010μF, ±20%, 16V Y5S disc	510-3010-103	C91	0.33μF, ±10%, 15V molded	510-2033-338
C6	27 pF, ±5%, 200V N150 ceramic	510-3216-270	C92	6.8μF ±20%, 35V dipped	510-2045-689
C8	0.010μF, ±20%, 16V Y5S disc	510-3010-103	C93	1.0μF, ±20%, 35V dipped	510-2045-109
C9	Same as C8		C101	330 pF, ±5%, 100V 1DM15	510-0001-331
C11	12 pF, ±5%, 50V N150 disc	510-3016-120	C102	82 pF, ±5%, 50V N150 disc	510-3016-820
C12	0.010μF, ±20%, 16V Y5S disc	510-3010-103	C103	0.010μF, ±20%, 16V Y5S disc	510-3010-103
C13	5.1 pF, ±5%, 200V NPO ceramic	510-3213-519	C104	10 pF, ±5%, 50V NPO disc	510-3013-100
C14	0.010μF, ±20%, 16V Y5S disc	510-3010-103	C105	0.010μF, ±20%, 16V Y5S disc	510-3010-103
C15	4700 pF, ±10%, 1KV Y5S disc	510-3061-472	C106	Same as C105	
C16	27 pF, ±5%, 200V NPO ceramic	510-3213-270	C107	150 pF, ±5%, 50V N150 disc	510-3016-151
C18	5.1 pF, ±5%, 200V NPO ceramic	510-3213-519	C108	0.010μF, ±20%, 16V Y5S disc	510-3010-103
C20	1 pF, ±5%, 500V composition	510-9002-109	C109	33 pF, ±5%, 200V N150 ceramic	510-3216-330
C21	1000 pF, ±20%, 1KV Y5S disc	510-3061-102	C111	1 pF, ±5%, 500V composition	510-9002-109
C22	0.010μF, ±20%, 16V Y5S disc	510-3010-103	C112	1000 pF, ±20%, 1KV Y5S disc	510-3061-102
C23	Same as C22		C113	33 pF, ±5%, 200V N150 ceramic	510-3216-330
C24	10 pF, ±5%, 50V N150 disc	510-3016-100	C114	1 pF, ±5%, 500V composition	510-9002-109
C27	0.010μF, ±20%, 16V Y5S disc	510-3010-103	C115	33 pF, ±5%, 200V N150 ceramic	510-3216-330
C28	Same as C27		C116	22 pF, ±5%, 200V NPO ceramic	510-3213-220
C32	Same as C27		C117	0.010μF, ±20%, 16V Y5S disc	510-3010-103
C33	150 pF, ±5%, 50V N150 disc	510-3016-151	C118	1000 pF, ±20%, 1KV Y5S disc	510-3061-102
C35	1000 pF, ±20%, 1KV Y5S disc	510-3061-102	C119	12 pF, ±5%, 200V N750 ceramic	510-3220-120
C36	0.022μF, ±20%, 16V Y5S disc	510-3010-223	C121	0.010μF, ±20%, 16V Y5S disc	510-3010-103
C37	1.0μF, ±20%, 35V dipped	510-2045-109	C122	1000 pF, ±20%, 1KV Y5S disc	510-3061-102
C41	0.010μF, ±20%, 16V Y5S disc	510-3010-103	C123	47 pF, ±5%, 200V N150 ceramic	510-3216-470
C42	6.8μF, ±20%, 35V dipped	510-2045-689	C124	4700 pF, ±20%, 50V Y5U disc	510-3002-472
C43	0.010μF, ±20%, 16V Y5S disc	510-3010-103	C125	0.047μF, ±20%, 50V Y5U	510-3202-473
C44	6.8μF, ±20%, 35V dipped	510-2045-689	C126	1000 pF, ±20%, 1KV Y5S disc	510-3061-102
C45	0.2μF, ±20%, 250V flat foil	510-1004-224	C127	27 pF, ±5%, 200V NPO ceramic	510-3213-270
C46	1.0μF, ±20%, 35V dipped	510-2045-109	C128	1000 pF, ±20%, 1KV Y5S disc	510-3061-102
C51	0.010μF, ±20%, 16V Y5S disc	510-3010-103	C129	100 pF, ±5%, 200V N150 ceramic	510-3216-101
C52	Same as C51		C131	300 pF, ±5%, 100V 1DM15	510-0001-301
C53	Same as C51		C132	330 pF, ±5%, 100V 1DM15	510-0001-331
C55	Same as C51		C133	4700 pF, ±20%, 1.4KV Z5U	510-3001-472
C56	Same as C51		C134	0.022μF, ±20%, 50V Y5U disc	510-3002-223
C57	Same as C51		C135	Same as C134	
C58	Same as C51		C136	5.1 pF, ±5%, 200V NPO ceramic	510-3213-519
C61	Same as C51		C137	0.010μF, ±20%, 16V Y5S disc	510-3010-103
C62	4700 pF, ±10%, 1KV Y5S disc	510-3061-472	C141	0.010μF, ±20%, 50V Y5U disc	510-3002-103
C63	0.047μF, ±20%, 16V Y5S disc	510-3010-473	C142	1000μF 16V aluminum	510-4006-005
C64	6.8μF, ±20%, 35V dipped	510-2045-689	C143	Same as C142	
C65	1000 pF, ±20%, 1KV Y5S disc	510-3061-102	C144	220μF 16V aluminum	510-4006-004
C66	0.10μF, ±20%, 16V Y5S disc	510-3010-104	C145	0.010μF, ±20%, 16V Y5S disc	510-3010-103
C71	0.010μF, ±20%, 16V Y5S disc	510-3010-103	C146	Same as C145	
C72	47μF, 10V aluminum	510-4003-004	C147	47μF 25V aluminum	510-4006-012
C73	1.0μF, ±20%, 35V dipped	510-2045-109	C200	24 pF, ±5%, 50V NPO disc	510-3013-240
C74	Same as C73		C201	470 pF, ±5%, 100V 1DM15	510-0001-471
C75	0.010μF, ±20%, 50V Y5U disc	510-3002-103	C202	220 pF, ±5%, 100V 1DM15	510-0001-221
C76	Same as C75		C203	0.010μF, ±10%, 50V Y5U disc	510-3002-103
C77	22μF, ±20%, 15V tubular	510-2003-220	C204	Same as C203	
C78	0.022μF, ±10%, 250V flat foil	510-1003-223	C205	150 pF, ±5%, 50V NPO disc	510-3013-151
			C206	0.010μF, ±20%, 50V Y5U disc	510-3002-103
			C207	39 pF 200V N150 ceramic	510-3216-390
			C208	1 pF, ±5%, 500V composition	510-9002-109
			C209	39 pF 200V N150 ceramic	510-3216-390
			C211	0.010μF, ±20%, 50V Y5U disc	510-3002-103

PARTS LIST (cont'd)

SYMBOL NO.	DESCRIPTION	PART NO.	SYMBOL NO.	DESCRIPTION	PART NO.
C212	Same as C211		J4	Antenna jack	142-0101-002
C213	Same as C211				
C214	8.2 pF, ±5%, 200V N750 ceramic	510-3220-829		INDUCTORS	
C215	100 pF, ±5%, 200V N750 ceramic	510-3220-101	L2	18 mH 500 mA filter	542-5007-001
C216	0.010μF, ±20%, 50V Y5U disc	510-3002-103	L5	220μH RF choke	542-2004-221
C217	22 pF, ±5%, 200V N150 ceramic	510-3216-220	L6	30μH choke	542-3002-004
C218	0.010μF, ±20%, 50V Y5U disc	510-3002-103	L8	13μH choke	542-3003-001
C219	Same as C218		L9	10 1/2 T inductor 0.75-1.0μH	542-1005-010
	CHASSIS PARTS		L10	4 1/2 T inductor 0.24-0.32μH	542-1005-004
CH1	Chassis rail	017-1819-002	L201	20μH choke	542-3002-002
CH2	Front panel	015-0823-002	L202	Same as L201	
	DIODES			SPEAKER	
CR1	1N67A germanium diode	523-1500-067	LS1	Speaker Assembly	
CR2	1N4148 SI diode	523-1500-883		Includes:	
CR3	Same as CR2			Speaker, 3 inch, 3.2 ohm	589-1013-001
CR4	1N67A germanium diode	523-1500-067		Grille	017-1869-001
CR7	10V J 1W zener	523-2503-100		Grille cloth	018-1026-002
CR8	Same as CR7			Gasket	018-1028-001
CR9	1N67A germanium diode	523-1500-067		METER	
CR10	1N4818 200V 1.5A rect.	523-0013-201	M1	Meter, S/RFO	554-0009-001
CR13	1N4148 SI diode	523-1500-883		MICROPHONE	
CR14	Same as CR13		MK1	Microphone Assembly	023-2708-005
CR15	Same as CR13			Includes:	
CR16	1N67A germanium diode	523-1500-067		Actuator	032-0218-001
CR17	1N4148 SI diode	523-1500-883		Interior cup	023-2707-001
CR19	Same as CR17			Slide switch	583-3001-011
CR21	1N4003 200V 1A rect.	523-0501-002		Grille cloth	018-0919-001
CR22	1N881/1N645 diode blk	523-1000-881		Resonator, bakelite	018-0918-002
CR23	1N4149 75V 75 mA SI SW	523-0006-002		Cord clamp	016-1798-001
CR24	Same as CR23			Screw, phillips panhead	575-5504-024
CR201	1N881/1N645 diode blk	523-1000-881		Nameplate	559-0036-001
CR202	Same as CR201			Viking head	559-0037-001
	LAMPS			Case front	032-0216-002
DS201	2157D lamp, clear	549-3001-007		Cable	597-2001-004
DS202	Same as DS201			Case back	023-2701-003
DS203	2193D 14.4V 0.12A, red	549-3001-004		Cushion	018-0920-002
	ELECTRICAL PARTS			MECHANICAL PARTS	
EP3	0.14 x 0.13 ferrite bead	517-2002-001	MP1	Heat sink for Q19	013-1074-001
EP5	0.14 x 0.24 ferrite bead	517-2002-002	MP2	Heat sink	014-0671-002
EP9	2104-06 terminal lug	586-0005-106	MP3	Knob, large	032-0445-002
	HARDWARE		MP4	Knob, small	032-0445-001
HW13	Ring nut 3/8 anodized,		MP7	Heat sink for U3	014-0694-001
	Volume & squelch controls	560-9098-016	MP12	Insulator, fish paper	018-1023-001
HW16	1/4 ID rubber grommet,		NP2	Overlay front panel	559-2081-001
	for microphone cable	574-0002-007		TRANSISTORS	
HW30	Rubber grommet 7/8 ID,		Q1	Silicon NPN 50 MHz amp TO92	576-0003-018
	speaker	574-0002-013	Q2	Same as Q1	
	CONNECTORS		Q3	Silicon NPN 175 MHz amp TO72	576-0003-029
J1	DC Power Jack	023-3370-001	Q4	Silicon NPN 50 MHz amp TO92	576-0003-018
	Includes:		Q5	Silicon NPN gen. purp. TO92	576-0003-011
	Red terminal bushing	515-4100-002	Q6	Same as Q5	
	Terminal tab	515-4101-001	Q7	Same as Q5	
J2	Ext. spkr. jack	515-2001-011	Q8	Same as Q5	
J3	PA spkr. jack	515-2001-011	Q9	Same as Q5	

## PARTS LIST (cont'd)

SYMBOL NO.	DESCRIPTION	PART NO.	SYMBOL NO.	DESCRIPTION	PART NO.
Q10	Silicon NPN VHF amp TO72	576-0003-021	R46	Same as R45	
Q11	Same as Q10		R47	2.2K ohm $\pm 10\%$ 1/4 W	569-1502-222
Q12	Silicon NPN gen. purp. TO92	576-0003-011	R48	470 ohm $\pm 10\%$ 1/4 W	569-1502-471
Q13	Same as Q12		R49	Same as R48	
Q14	Same as Q12		R51	470 ohm $\pm 10\%$ 1/4 W	569-1502-471
Q15	Same as Q12		R52	2.2K ohm $\pm 10\%$ 1/4 W	569-1502-222
Q16	Same as Q12		R53	470 ohm $\pm 10\%$ 1/4 W	569-1502-471
Q17	Same as Q12		R54	2.2K ohm $\pm 10\%$ 1/4 W	569-1502-222
Q18	0.4 W 27 MHz amp. TO39	576-0004-004	R56	47K ohm $\pm 10\%$ 1/4 W	569-1502-473
Q19	Same as Q18		R57	2.2K ohm $\pm 10\%$ 1/4 W	569-1502-222
Q20	3.4 W 27 MHz amp. TO39	576-0004-005	R58	1.0K ohm $\pm 10\%$ 1/4 W	569-1502-102
Q21	Silicon NPN 50 MHz amp. TO92	576-0003-018	R59	Same as R58	
Q22	Silicon NPN gen. purp. TO92	576-0003-011	R61	3.9K ohm $\pm 10\%$ 1/4 W	569-1502-392
Q201	Same as Q22		R62	330 ohm $\pm 10\%$ 1/4 W	569-1502-331
Q202	Same as Q22		R63	5.6K ohm $\pm 10\%$ 1/4 W	569-1502-562
Q203	Silicon NPN 50 MHz amp TO92	576-0003-018	R64	3.9K ohm $\pm 10\%$ 1/4 W	569-1502-392
			R65	470 ohm $\pm 10\%$ 1/4 W	569-1502-471
	RESISTORS		R66	1.8K ohm	569-1502-182
R1	4.7K ohm $\pm 10\%$ 1/4 W	569-1502-472	R68	3.3K ohm $\pm 10\%$ 1/4 W	569-1502-332
R2	47 ohm $\pm 10\%$ 1/4 W	569-1502-470	R70	Same as R68	
R3	22K ohm $\pm 10\%$ 1/4 W	569-1502-223	R71	10K ohm $\pm 10\%$ 1/4 W	569-1502-103
R4	1.0K ohm $\pm 10\%$ 1/4 W	569-1502-102	R72	15K 1/8 W PC trim pot., tight squelch control	562-0004-253
R5	Same as R4		R73	15K 1/2 W std. D 15/16 squelch control	562-0001-022
R6	47 ohm $\pm 10\%$ 1/4 W	569-1502-470			
R7	4.7K ohm $\pm 10\%$ 1/4 W	569-1502-472	R75	5.6K ohm $\pm 10\%$ 1/4 W	569-1502-562
R8	220 ohm $\pm 10\%$ 1/4 W	569-1502-221	R76	120 ohm $\pm 10\%$ 1/4 W	569-1502-121
R9	1.0K ohm $\pm 10\%$ 1/4 W	569-1502-102	R77	150K ohm $\pm 10\%$ 1/4 W	569-1502-154
R10	22K ohm $\pm 10\%$ 1/4 W	569-1502-223	R78	100K ohm $\pm 10\%$ 1/4 W	569-1502-104
R11	470 ohm $\pm 10\%$ 1/4 W	569-1502-471	R79	68K ohm $\pm 10\%$ 1/4 W	569-1502-683
R12	Same as R11		R80	100 ohm $\pm 10\%$ 1/4 W	569-1502-101
R13	1.0K ohm $\pm 10\%$ 1/4 W	569-1502-102	R81	22K ohm $\pm 10\%$ 1/4 W	569-1502-223
R14	6.8K ohm $\pm 10\%$ 1/4 W	569-1502-682	R82	47K ohm $\pm 10\%$ 1/4 W	569-1502-473
R16	1.0K ohm $\pm 10\%$ 1/4 W	569-1502-102	R83	3.9K ohm $\pm 10\%$ 1/4 W	569-1502-392
R17	220 ohm $\pm 10\%$ 1/4 W	569-1502-221	R84	2.7K ohm $\pm 10\%$ 1/4 W	569-1502-272
R18	1.0K ohm $\pm 10\%$ 1/4 W	569-1502-102	R85	33K ohm $\pm 10\%$ 1/4 W	569-1502-333
R19	2.2K ohm $\pm 10\%$ 1/4 W	569-1502-222	R86	47 ohm $\pm 10\%$ 1/4 W	569-1502-470
R20	10K 1/8 W PC trim pot., IF gain control	562-0004-103	R87	33 ohm $\pm 10\%$ 1/4 W	569-1502-330
R21	220 ohm $\pm 10\%$ 1/4 W	569-1502-221	R88	6.8K ohm $\pm 10\%$ 1/4 W	569-1502-682
R22	1.0K ohm $\pm 10\%$ 1/4 W	569-1502-102	R89	3.3K ohm $\pm 10\%$ 1/4 W	569-1502-332
R23	56K ohm $\pm 10\%$ 1/4 W	569-1502-563	R101	4.7K ohm $\pm 10\%$ 1/4 W	569-1502-472
R24	27K ohm $\pm 10\%$ 1/4 W	569-1502-273	R102	15K ohm $\pm 10\%$ 1/4 W	569-1502-153
R25	4.7K ohm $\pm 10\%$ 1/4 W	569-1502-472	R103	3.3K ohm $\pm 10\%$ 1/4 W	569-1502-332
R26	220 ohm $\pm 10\%$ 1/4 W	569-1502-221	R104	1.0K ohm $\pm 10\%$ 1/4 W	569-1502-102
R27	1.0K ohm $\pm 10\%$ 1/4 W	569-1502-102	R105	470 ohm $\pm 10\%$ 1/4 W	569-1502-471
R28	10K ohm $\pm 10\%$ 1/4 W	569-1502-103	R106	3.9K ohm $\pm 10\%$ 1/4 W	569-1502-392
R29	10K 1/2 W A 15/16 SPST, Volume control	562-0001-021	R107	6.8K ohm $\pm 10\%$ 1/4 W	569-1502-682
R30	1.0K ohm $\pm 10\%$ 1/4 W	569-1502-102	R108	1.0K $\pm 10\%$ 1/4 W	569-1502-102
R31	22K ohm $\pm 10\%$ 1/4 W	569-1502-223	R109	2.2K ohm $\pm 10\%$ 1/4 W	569-1502-222
R32	39K ohm $\pm 5\%$ 1/4 W	569-1501-393	R111	3.3K ohm $\pm 10\%$ 1/4 W	569-1502-332
R33	2.7K ohm $\pm 10\%$ 1/4 W	569-1502-272	R112	470 ohm $\pm 10\%$ 1/4 W	569-1502-471
R34	6.8K ohm $\pm 10\%$ 1/4 W	569-1502-682	R113	56 ohm $\pm 10\%$ 1/4 W	569-1502-560
R35	5.6K ohm $\pm 10\%$ 1/4 W	569-1502-562	R115	120 ohm $\pm 10\%$ 1/4 W	569-1502-121
R36	1.5K ohm $\pm 10\%$ 1/4 W	569-1502-152	R116	1.0K ohm $\pm 10\%$ 1/4 W	569-1502-102
R37	1.2K ohm $\pm 10\%$ 1/4 W	569-1502-122	R117	47 ohm $\pm 10\%$ 1/4 W	569-1502-470
R38	10K 1/8 W PC trim pot., "S" meter sensitivity control	562-0004-103	R118	1.2K ohm $\pm 10\%$ 1/2 W	569-1004-122
R39	50K 1/8 W PC trim pot., relative power output	562-0004-503	R119	470 ohm $\pm 10\%$ 1/4 W	569-1502-471
R40	6.8K ohm $\pm 10\%$ 1/4 W	569-1502-682	R141	33 ohm $\pm 10\%$ 1 W	569-1006-330
R42	470 ohm $\pm 10\%$ 1/4 W	569-1502-471	R142	39 ohm $\pm 10\%$ 1 W	569-1006-390
R43	500 1/8 W PC trim pot., S meter zero	562-0004-501	R143	Same as R142	
R44	2.2K ohm $\pm 10\%$ 1/4 W	569-1502-222	R201	2.2K ohm $\pm 10\%$ 1/4 W	569-1502-222
R45	470 ohm $\pm 10\%$ 1/4 W	569-1502-471	R202	Same as R201	
			R203	470 ohm $\pm 10\%$ 1/4 W	569-1502-471
			R204	Same as R203	
			R205	120 ohm $\pm 10\%$ 1/4 W	569-1502-121
			R206	39K ohm $\pm 10\%$ 1/4 W	569-1502-393
			R207	6.8K ohm $\pm 10\%$ 1/4 W	569-1502-682

## PARTS LIST (cont'd)

SYMBOL NO.	DESCRIPTION	PART NO.	SYMBOL NO.	DESCRIPTION	PART NO.
R208	2.2K ohm $\pm 10\%$ 1/4 W	569-1502-222	T203	10MM 27 MHz oscillator trans.	592-5015-004
R209	1.2K ohm $\pm 10\%$ 1/4 W	569-1502-122		PEC's	
R210	680 ohm $\pm 10\%$ 1/4 W	569-1502-681			
R211	120 ohm $\pm 10\%$ 1/4 W	569-1502-121	U1	PEC 2nd IF	544-0002-014
R212	2.2K ohm $\pm 10\%$ 1/4 W	569-1502-222	U2	PEC noise limiter	544-0002-015
R213	2.7K ohm $\pm 10\%$ 1/4 W	569-1502-272		INTEGRATED CIRCUIT	
R214	470 ohm $\pm 10\%$ 1/4 W	569-1502-471			
R215	120 ohm $\pm 10\%$ 1/4 W	569-1502-121	U3	IC audio UA706	544-2004-001
R216	680 ohm $\pm 10\%$ 1/4 W	569-1502-681		CRYSTALS	
R217	390 ohm $\pm 10\%$ 1/4 W	569-1502-391			
R218	22 ohm $\pm 10\%$ 1/4 W	569-1502-220			
	THERMISTORS		Y1	4.3 MHz filter HC-18/U	519-0007-001
RT2	Thermistor, 8K ohm	569-3001-001	Y2	Same as Y1	
RT3	500 ohm $\pm 10\%$ -3.9 thermistor	569-3001-002	Y3	Same as Y1	
	SWITCHES		Y4	Same as Y1	
S1	DPDT POS/NEG ground switch	583-3001-005	Y5	4.3 MHz filter set	519-0007-002
S2	Slide switch DPDT, red	583-3003-005	Y6	Same as Y5	
S3	Same as S2		Y7	4.3 MHz 32 pF HC-18/U	519-0008-001
S201	Channel Selector Switch		Y201	10.180 MHz HC-25/U	519-0006-114
	Includes:		Y202	10.170 MHz HC-25/U	519-0006-113
	Bushing	018-0036-023	Y203	10.160 MHz HC-25/U	519-0006-112
	Spacer	013-1422-001	Y204	10.140 MHz HC-25/U	519-0006-111
	Standoff	013-1475-001	Y205	32.845 MHz HC-25/U	519-0005-111
	Channel indicator dial	032-0154-002	Y206	32.895 MHz HC-25/U	519-0005-112
	24 position detent	583-9004-012	Y207	32.945 MHz HC-25/U	519-0005-113
	Channel selector knob	023-3532-002	Y208	32.995 MHz HC-25/U	519-0005-114
	Switch wafer	583-2009-211	Y209	33.045 MHz HC-25/U	519-0005-115
	TRANSFORMERS		Y210	33.095 MHz HC-25/U	519-0005-116
T1	10MM 27 MHz ant. transformer	592-5015-001		CERAMIC FILTER	
T2	10 MM 27 MHz RF out	592-5015-009	Z1	10 MHz trap	544-9001-001
T3	10MM 4.3 MHz IF transformer	592-5015-008		Accessory Package	
T4	10MM 4.3 MHz filter in	592-5015-011		Includes:	
T5	10MM 4.3 MHz filter out	592-5015-012		Battery cable	023-1652-001
T6	10MM 4.3 MHz IF transformer	592-5015-013		Connector package	023-2209-001
T7	10MM 4.3 MHz filter in	592-5015-011		Hardware envelope	023-2615-001
T8	10MM 4.3 MHz filter out	592-5015-012		No. 20 white envelope	041-0413-000
T9	10MM 4.3 MHz interstage	592-5015-014		3 3/4 poly bag	041-0420-105
T10	10MM 4.3 MHz output trans- former	592-5015-015		Microphone clip	537-9004-002
T11	10MM 4.3 MHz mixer out	592-5015-010		Neg. ground warning tag	564-0006-001
T12	Same as T11			Transmitter ID card	564-1001-001
T13	10MM 4.3 MHz IF transformer	592-5015-007		SCR 4 MTL PH NPS	574-9504-006
T14	Modulation transformer	592-1013-007		Literature Package	
T15	10MM 27 MHz auto-transformer	592-5015-005		Includes:	
T16	Same as T15			Operating manual M323A	002-0323-001
T17	Same as T15			Installation instructions	004-2001-001
T18	25-40 MHz osc. transformer	592-5014-001		Rule Part 95	022-1635-001
T19	25-50 MHz driver transformer	592-5014-002		FCC Form 505	022-1636-001
T201	10MM 27 MHz auto-transformer	592-5015-005		CB warranty card	041-0419-014
T202	Same as T201			Service center list	041-0419-016
				Schematic M323A	564-3001-323