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PARTS LIST

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SYMBOL NO.	DESCRIPTION	PART NO.	SYMBOL NO.	DESCRIPTION	PART NO.
BRACKETS			C45	1 pF ±5%, 500 V	510-9002-109
BKT1	Cabinet mounting	016-1884-003	C46	Same as C45	
BKT2	Channel indicator	016-1886-001	C48	0.01 μF +80/-20%, 50 V, Y5U, ceramic disc	510-3003-103
BKT3	Front panel mounting	016-1944-001	C50	1.0 μF ±20%, 35 V, tantalum	510-2045-109
CAPACITORS			C51	Same as C50	
C1	6.8 μF ±20%, 35 V, tantalum	510-2045-689	C101	220 μF, 16V aluminum	510-4006-004
C2	0.0047 μF +80/-20%, 500 V, Y5U, ceramic disc	510-3005-472	C121	0.010 μF, ±20% 50V Y5U	
C3	27 pF ±5%, N750, ceramic disc	510-3020-270	CHASSIS PARTS		
C4	0.01 μF +80/-20%, 50 V, Y5U, ceramic disc	510-3003-103	CH1	Front panel	032-0271-001
C5	150 pF ±5%, 100 V, dipped mica	510-0001-151	CH4	Overlay	559-2068-001
C6	6.8 μF ±20%, 35 V, tantalum	510-2045-689	CH5	Plate, control mounting	016-1881-001
C7	0.01 μF +80/-20%, 50 V, Y5U, ceramic disc	510-3003-103	CH6	Plate, control mounting	016-1881-002
C9	0.0047 μF ±20%, 500 V, Y5U	510-3004-472	U9	Rear panel	023-2919-003
C10	1.0 μF ±20%, 35 V, tantalum	510-2045-109		Includes:	
C11	0.047 μF ±10%, 250 V, flat foil	510-1003-473		Rear panel assembly	023-2919-001
C12	6.8 μF ±20%, 35 V, tantalum	510-2045-689		Receptacle, coaxial, J2	142-0101-002
C13	0.001 μF ±20%, 50V, Y5U, ceramic disc	510-3002-102	U10	Cabinet	023-2920-001
C14	0.01 μF +80/-20%, 50 V, Y5U, ceramic disc	510-3003-103	DIODES		
C15	27 pF ±5%, N150, ceramic disc	510-3016-270	CR1	1N67A, germanium	523-1000-067
C16	510 pF ±5%, N750, ceramic disc	510-3020-511	CR2	Same as CR1	
C17	0.0047 μF +80/-20%, 500 V, Y5U, ceramic disc	510-3005-472	CR3	1N881, 50 mA, 200 PIV, silicon	523-1000-881
C18	0.22 μF +80/-20%, 3V	510-3009-224	CR5	Same as CR3	
C19	0.01 μF +80/-20%, 50 V, Y5U, ceramic disc	510-3003-103	CR6	1A, 200 V, PIV, silicon	523-0001-002
C20	22 μF ±20%, 15 V, tantalum	510-2003-220	CR7	1N881, 50 mA, 200 PIV, silicon	523-1000-881
C21	150 μF +100/-10%, 25 V, alumin electrolytic	510-4006-006	CR8	Same as CR7	
C22	6.8 μF ±20%, 35 V, tantalum	510-2045-689	CR9	Same as CR7	
C23	Same as C22		CR10	Same as CR7	
C24	56 μF ±20%, 6 V, tantalum	510-2001-560	CR11	1N67A, germanium	523-1000-067
C25	0.22 μF ±20%, 250 V, flat foil	510-1004-224	CR12	1N881, 50 mA, 200 PIV, silicon	523-1000-881
C26	0.022 μF ±20%, 50 V, Y5U, ceramic disc	510-3002-223	CR13	Zener, 10 V ±5%, 25 mA	523-2003-100
C27	Same as C26		LAMPS		
C28	0.0047 μF +80/-20%, 500 V, Y5U, ceramic disc	510-3005-472	DS1	Clear 14.4 V, 0.012 A	549-3001-005
C29	22 pF ±5%, N750, ceramic disc	510-3020-220	DS2	Same as DS1	
C30	Same as C29		DS3	Same as DS1	
C31	150 pF ±5%, N750, ceramic disc	510-3020-151	ELECTRICAL PARTS		
C32	0.001 μF ±20%, 50 V, Y5U, ceramic disc	510-3002-102	E1	Heat sink, driver	013-1074-001
C33	43 pF ±5%, N150, ceramic disc	510-3016-430	E2	Heat sink, output	014-0671-001
C34	0.0047 μF +80/-20%, 500 V, Y5U, ceramic disc	510-3005-472	JACKS		
C35	0.047 μF +80/-20%, 50 V, Y5U, ceramic disc	510-3003-473	J1	External speaker	515-2001-002
C36	0.001 μF ±20%, 1 kV, Y5S, ceramic disc	510-3061-102	J3	Terminal tab (insert in 515-4100-001)	515-4101-001
C37	27 pF ±5%, NPO, ceramic disc	510-3013-270	J3	Terminal bushing (rear panel)	515-4100-001
C38	0.001 μF ±20%, 50 V, Y5U, ceramic disc	510-3002-102	INDUCTORS		
C39	100 pF ±5%, N150, ceramic disc	510-3016-101	L1	RF (13 μH)	542-3003-001
C40	300 pF ±5%, 100 V, dipped mica	510-0001-301	L2	Same as L1	
C41	330 pF ±5%, 100 V, dipped mica	510-0001-331	L3	Output series	542-1005-010
C42	0.0047 μF ±20%, 125 VAC, ceramic disc	510-3001-472	L4	Output pi	542-1005-004
C43	1000 μF +100/-10%, 16 V, aluminum electrolytic	510-4006-005	L5	RF (20 mH)	542-8001-011
C44	220 μF +100/-10%, 16 V, aluminum electrolytic	510-4006-004			

PARTS LIST (cont'd)

SYMBOL NO.	DESCRIPTION	PART NO.	SYMBOL NO.	DESCRIPTION	PART NO.
MICROPHONE					
MK1	Microphone (5 conductors and a shield) Includes: Actuator ASY, interior cup Switch, slide Grille cloth Resonator, bakelite Cord clamp Case, front Cushion Cable, microphone ASY, case back W3	023-2708-005 032-0218-001 023-2707-001 583-3001-011 018-0919-001 018-0918-001 016-1798-001 032-0216-002 018-0920-001 597-2001-005 023-2701-003	R29 R30 R31 R32 R33 R34 R35 R36 R37 R40 R41 R42 R43 R44	120 ohms $\pm 10\%$, 1/2 W 47 ohms $\pm 10\%$, 1/2 W 470 ohms $\pm 10\%$, 1/2 W 47 k ohms $\pm 10\%$, 1/2 W 1200 ohms $\pm 10\%$, 1/2 W 330 ohms $\pm 10\%$, 1/2 W 150,000 ohms $\pm 10\%$, 1/2 W 100,000 ohms $\pm 10\%$, 1/2 W 68,000 ohms $\pm 10\%$, 1/2 W 1000 ohms $\pm 10\%$, 1/2 W 15 ohms $\pm 10\%$, 1/2 W Same as R41 Same as R41 62 ohms $\pm 5\%$, 1/2 W	569-1004-121 569-1004-470 569-1004-471 569-1004-473 569-1004-122 569-1004-331 569-1004-154 569-1004-104 569-1004-683 569-1004-102 569-1004-150 569-1003-620
MECHANICAL PARTS					
MP1	Knob (volume, squelch)	032-0236-001	SWITCHES		
MP2	Pushbutton, channel selector	547-0006-020	S1	Switch, pushbutton	583-4008-010
MP3	Pad, foam, 0.81 ID (speaker mount)	018-0963-001	TRANSFORMERS		
MP4	Pushbutton (S1 Module S1A), PA	547-0006-120	T1	27 MHz, input	592-5015-001
TRANSISTORS					
Q1	3018, NPN, Si	576-0003-018	T2	27 MHz, output	592-5015-002
Q2	3011, NPN, Si	576-0003-011	T3	27 MHz, oscillator	592-5015-004
Q3	Same as Q2		T4	455 kHz, IF	592-5020-004
Q4	Same as Q2		T5	455 kHz, IF	592-5020-004
Q5	Same as Q2		T6	Audio driver	592-1007-004
Q6	1008, NPN, Si	576-0001-008	T7	Transformer, audio output, modulation	592-1013-006
Q7	1003, PNP, Ge (noise selected)	576-0001-003	T8	Coil, oscillator	592-5014-001
Q8	1009, PNP, Ge	576-0001-009	T9	Coil, driver	592-5014-002
Q9	2001, NPN, Si	576-0002-001	PACKAGED ELECTRONIC CIRCUITS (PEC'S)		
Q10	Same as Q9		U1	RF	544-0003-011
Q11	4006, NPN, Si	576-0004-006	U2	Mixer	544-0002-011
Q12	4004, NPN, Si	576-0004-004	U3	1st IF	544-0003-033
Q13	4005, NPN, Si	576-0004-005	U5	2nd IF	544-0002-014
RESISTORS					
R1	22,000 ohms $\pm 10\%$, 1/2 W	569-1004-223	U6	Noise limiter	544-0002-035
R2	Potentiometer, 470 ohms $\pm 20\%$, 1/10 watt IF Gain	562-0019-471	U8	Audio	544-0002-036
R3	4700 ohms $\pm 10\%$, 1/2 W	569-1004-472	PC BOARD		
R4*	1000 ohms $\pm 10\%$, 1/4 W	569-1002-102	U11	Printed circuit board	035-0125-001
R5	10 k ohms $\pm 10\%$, 1/2 W	569-1004-103	SPEAKER		
R7	Potentiometer, 5000 ohms, squelch	562-0025-002	U12	Speaker	023-2927-001
R8*	100,000 ohms $\pm 10\%$, 1/4 W	569-1002-104	CRYSTAL BLOCK		
R9	100 ohms $\pm 10\%$, 1/2 W	569-1004-101	XY	Crystal block (10 position)	126-0110-103
R10	6800 ohms $\pm 10\%$, 1/2 W	569-1004-682	FILTER		
R11	1200 ohms $\pm 10\%$, 1/2 W	569-1004-122	Z4	Ceramic, filter, 455 kHz bandpass	532-2002-001
R12	680 ohms $\pm 10\%$, 1/2 W	569-1004-681			
R13	2200 ohms $\pm 10\%$, 1/2 W	569-1004-222			
R14	1000 ohms $\pm 10\%$, 1/2 W	569-1004-102			
R16	Potentiometer, 10 k ohms, volume	562-0025-001			
R19	1500 ohms $\pm 10\%$, 1/4 W	569-1002-152			
R20	5600 ohms $\pm 10\%$, 1/2 W	569-1004-562			
R21	470 ohms $\pm 10\%$, 1/2 W	569-1004-471			
R22	27 ohms $\pm 10\%$, 1/2 W	569-1004-270			
R23	510 ohms $\pm 5\%$, 1/2 W	569-1003-511			
R24	1 ohm $\pm 10\%$, 1/2 W	569-2003-109			
R26	5100 ohms $\pm 5\%$, 1/2 W	569-1003-512			
R27	510 ohms $\pm 5\%$, 1/2 W	569-1003-511			
R28	51 ohms $\pm 5\%$, 1/2 W	569-1003-510			

*Deleted on later models.

PARTS LIST (cont'd)

SYMBOL NO.	DESCRIPTION	PART NO.	SYMBOL NO.	DESCRIPTION	PART NO.
ACCESSORY PACKAGE					
	Bag, plastic	041-0420-001		Microphone holder	537-9004-002
	Operating Manual	002-0121-001		Screw, #4 x 3/16 sheet metal (microphone holder)	011-0807-006
	Reduced schematic diagram	564-3001-121		Hardware package for mounting bracket	023-2615-001
	Identification card, FCC form 452-C	564-1001-001		Includes:	
	Copy Part 95, FCC rules	022-1635-001		Mt. bkt. hd. pk. env. (white)	559-4019-001
	FCC form 505, application for license	022-1636-001		Screws, #10-32 x 5/8	011-0229-020
	Warranty card (attach to outside)	041-0419-017		Nuts, #10-32	012-0109-002
	Channel indicator number package	023-2930-001		Lockwashers, #10	029-0001-003
	Cable, 13.8 VDC battery, fused	023-1652-001		Screws, 1/4 x 20 x 5/16	011-0322-010
	Includes:			Washers, cushion	018-0822-001
	Fuseholder	534-1004-005		Tap connector package	023-2209-001
	Fuse, 2 ampere	534-0003-024			
	Quick-disconnect lead assembly	023-2558-001			
	Lead assembly, negative for AC power supply	597-0001-011			

CRYSTAL INFORMATION

TRANSCIVER PART NO.	CHANNEL	OPERATING FREQUENCY IN MHz	Y2 TRANSMITTER CRYSTAL PART NO.	Y1 RECEIVER CRYSTAL PART NO.
242-0121-001	1	26.965	519-0011-001	519-0011-301
-002	2	26.975	-002	-302
-003	3	26.985	-003	-303
-004	4	27.005	-004	-304
-005	5	27.015	-005	-305
-006	6	27.025	-006	-306
-007	7	27.035	-007	-307
-008	8	27.055	-008	-308
-009	9	27.065	-009	-309
-010	10	27.075	-010	-310
-011	11	27.085	-011	-311
-012	12	27.105	-012	-312
-013	13	27.115	-013	-313
-014	14	27.125	-014	-314
-015	15	27.135	-015	-315
-016	16	27.155	-016	-316
-017	17	27.165	-017	-317
-018	18	27.175	-018	-318
-019	19	27.185	-019	-319
-020	20	27.205	-020	-320
-021	21	27.215	-021	-321
-022	22	27.225	-022	-322
-023	23	27.255	-023	-323

NOTES

- The transceiver part number indicates the operating frequency channel. Example:

242-0121-011 ← Channel 11

- The transceiver will accommodate 5 operating frequency Channels (5 sets of crystals)

TABLE 1
tone frequency determining elements

TONE NUMBER	TONE FREQ. (In Hertz)	C105 (Description and Part Number)	R107 (Description and Part Number)
1	750	0.047 μ F \pm 5% 25V 510-1101-473	330k \pm 10% 1/2W 569-1004-334
2	825	0.039 μ F \pm 5% 25V 510-1101-393	390k \pm 10% 1/2W 569-1004-394
3	895	0.033 μ F \pm 5% 25V 510-1101-333	390k \pm 10% 1/2W 569-1004-394
4	985	0.027 μ F \pm 5% 25V 510-1101-273	470k \pm 10% 1/2W 569-1004-474
5	1095	0.022 μ F \pm 5% 25V 510-1101-223	680k \pm 10% 1/2W 569-1004-684
6	1210	0.018 μ F \pm 5% 25V 510-1101-183	820k \pm 10% 1/2W 569-1004-824
7	1280	0.016 μ F \pm 5% 25V 510-1101-163	820k \pm 10% 1/2W 569-1004-824
8	1420	0.013 μ F \pm 5% 25V 510-1101-133	1M Ω \pm 10% 1/2W 569-1004-105
9	1545	0.011 μ F \pm 5% 25V 510-1101-113	1M Ω \pm 10% 1/2W 569-1004-105
10	1615	0.010 μ F \pm 5% 25V 510-1101-103	1M Ω \pm 10% 1/2W 569-1004-105