

75A-2 RECEIVER

ITEM	CIRCUIT FUNCTION	DESCRIPTION	PART NUMBER
C-1	T-1 padding	CAPACITOR: mica; 390 mmf $\pm 2\%$, 500 WV	912 0535 00
C-2	L-1 padding	CAPACITOR: mica; 270 mmf $\pm 5\%$, 500 WV	912 0524 00
C-3	L-2 padding	CAPACITOR: mica; 120 mmf $\pm 10\%$, 500 WV	912 0501 00
C-4	L-3 padding	CAPACITOR: mica; 68 mmf $\pm 10\%$, 500 WV	912 0483 00
C-5	T-1 trimming	CAPACITOR, variable: ceramic; 8-50 mmf, 350 WV	917 1038 00
C-6	T-2 trimming	CAPACITOR, variable: ceramic; 8-50 mmf, 350 WV	917 1038 00
C-7	L-1 trimming	CAPACITOR, variable: ceramic; 8-50 mmf, 350 WV	917 1038 00
C-8	L-2 trimming	CAPACITOR, variable: ceramic; 8-50 mmf, 350 WV	917 1038 00
C-9	L-3 trimming	CAPACITOR, variable: ceramic 8-50 mmf, 350 WV	917 1038 00
C-10	L-4 trimming	CAPACITOR, variable: ceramic 5-25 mmf, 350 WV	917 1036 00
C-11	L-5 trimming	CAPACITOR, variable: ceramic 5-25 mmf, 350 WV	917 1036 00
C-12	T-2 padding	CAPACITOR: mica; 650 mmf $\pm 2\%$, 500 WV	912 0548 00
C-13	Antenna trimmer	CAPACITOR, variable: air; 2.6-19.7 mmf	922 0033 00
C-14	V-1 grid blocking	CAPACITOR: mica; 100 mmf $\pm 10\%$, 500 WV	912 0495 00
C-15	V-1 grid decoupling	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-16	V-1 screen by-pass	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-17		Not Used	
C-18	L-7 padding	CAPACITOR: mica; 270 mmf $\pm 5\%$, 500 WV	912 0524 00
C-19	L-8 padding	CAPACITOR: mica; 120 mmf $\pm 10\%$, 500 WV	912 0501 00
C-20	L-9 padding	CAPACITOR: mica; 68 mmf $\pm 10\%$, 500 WV	912 0483 00
C-21	L-6 trimming	CAPACITOR, variable: ceramic; 8-50 mmf, 350 WV	917 1038 00

ITEM	CIRCUIT FUNCTION	DESCRIPTION	PART NUMBER
C-22	L-7 trimming	CAPACITOR, variable: ceramic; 8-50 mmf, 350 WV	917 1038 00
C-23	L-8 trimming	CAPACITOR, variable: ceramic; 8-50 mmf, 350 WV	917 1038 00
C-24	L-9 trimming	CAPACITOR, variable: ceramic; 8-50 mmf, 350 WV	917 1038 00
C-25	L-10 trimming	CAPACITOR, variable: ceramic; 5-25 mmf, 350 WV	917 1036 00
C-26	L-11 trimming	CAPACITOR, variable: ceramic; 5-25 mmf, 350 WV	917 1036 00
C-27	V-1 plate decoupling	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-28	L-6 padding	CAPACITOR: mica; 650 mmf $\pm 2\%$, 500 WV	912 0548 00
C-29	V-2 grid blocking	CAPACITOR: mica; 10 mmf $\pm 10\%$, 500 WV	912 0432 00
C-30	V-2 cathode by-pass	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-31	V-2 screen by-pass	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-32	Band pass top coupling	CAPACITOR: ceramic; 5.0 mmf $\pm 1/4$ mmf, 500 WV	916 4384 00
C-33	V-2 injection coupling	CAPACITOR: mica; 100 mmf $\pm 10\%$, 500 WV	912 0495 00
C-34	V-3 plate to grid coupling	CAPACITOR: mica; 220 mmf $\pm 10\%$, 500 WV	912 0519 00
C-35	L-18 padding	CAPACITOR: mica; 47 mmf $\pm 10\%$, 500 WV	912 0471 00
C-36	V-3 plate decoupling	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-37	L-12 padding	CAPACITOR: mica; 220 mmf $\pm 10\%$, 500 WV	912 0519 00
C-38	L-13 padding	CAPACITOR: mica; 120 mmf $\pm 10\%$, 500 WV	912 0501 00
C-39	L-14 padding	CAPACITOR: mica; 120 mmf $\pm 10\%$, 500 WV	912 0501 00
C-40	L-15 padding	CAPACITOR: mica; 100 mmf $\pm 10\%$, 500 WV	912 0495 00
C-41	L-16 padding	CAPACITOR: mica; 47 mmf $\pm 10\%$, 500 WV	912 0471 00
C-42	L-17 padding	CAPACITOR: mica; 39 mmf $\pm 10\%$, 500 WV	912 0465 00

ITEM	CIRCUIT FUNCTION	DESCRIPTION	PART NUMBER
C-43	L-19 trimming	CAPACITOR, variable: 8-50 mmf, 350 WV	917 1038 00
C-44	L-18 padding	CAPACITOR: mica; 330 mmf $\pm 5\%$, 500 WV	912 0530 00
C-45	V-2 plate decoupling	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-46	L-18 trimming	CAPACITOR, variable: ceramic; 8-50 mmf, 350 WV	917 1038 00
C-47		Not used	
C-48	Variable i-f coupling	CAPACITOR: ceramic; 4.0 mmf $\pm 1/2$ mmf, 500 WV	916 4381 00
C-49	Variable i-f coupling	CAPACITOR: ceramic; 1.0 mmf $\pm 1/4$ mmf, 500 WV	916 4368 00
C-50	L-22 padding	CAPACITOR: mica; 47 mmf $\pm 10\%$, 500 WV	912 0471 00
C-51	L-23 trimming	CAPACITOR, variable: ceramic; 8-50 mmf, 350 WV	917 1038 00
C-52	L-22 padding	CAPACITOR: mica; 330 mmf $\pm 5\%$, 500 WV	912 0530 00
C-53	L-22 trimming	CAPACITOR, variable: ceramic; 8-50 mmf, 350 WV	917 1038 00
C-54	V-4 cathode by-pass	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-55	V-4 screen by-pass	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-56	T-3 padding	CAPACITOR: part of T-3	
C-57	V-4 plate decoupling	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-58	Crystal filter phasing	CAPACITOR, variable: air; 3.5-27 mmf	922 0079 00
C-59	Filter crystal shunt	CAPACITOR: mica; 10 mmf $\pm 10\%$, 500 WV	912 0432 00
C-60	L-24 padding	CAPACITOR: part of L-24	
C-61	V-5 grid decoupling	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-62	V-5 screen by-pass	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-63	T-4 primary padding	CAPACITOR: part of T-4	
C-64	V-5 plate decoupling	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00

ITEM	CIRCUIT FUNCTION	DESCRIPTION	PART NUMBER
C-65	T-4 secondary padding	CAPACITOR: part of T-4	
C-66	T-5 primary padding	CAPACITOR: part of T-5	
C-67	T-5 secondary padding	CAPACITOR: part of T-5	
C-68	V-6 grid decoupling	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-69	V-6 screen by-pass	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-70	T-6 primary padding	CAPACITOR: part of T-6	
C-71	V-6 plate decoupling	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-72	T-6 secondary padding	CAPACITOR: part of T-6	
C-73	V-7 grid decoupling	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-74	V-7 cathode by-pass	CAPACITOR: paper; .1 mf $\pm 20\%$, 150 WV	931 0239 00
C-75	V-7 screen by-pass	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-76	T-7 primary padding	CAPACITOR: part of T-7	
C-77	V-7 plate decoupling	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-78	T-7 secondary padding	CAPACITOR: part of T-7	
C-79	Detector r-f filter	CAPACITOR: mica; 330 mmf $\pm 5\%$, 500 WV	912 0530 00
C-80	AVC coupling	CAPACITOR: mica; 100 mmf $\pm 10\%$, 500 WV	912 0495 00
C-81	AVC filter	CAPACITOR: paper; .1 mf $\pm 10\%$, 150-200 WV	931 0333 00
C-82	AVC Amplifier	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-83	V-9 cathode coupling	CAPACITOR: paper; .5 mf $\pm 20\%$ -10%, 200 WV	931 0169 00
C-84	Noise limiter filter	CAPACITOR: paper; .1 mf $\pm 10\%$, 150-200 WV	931 0333 00
C-85	V-9 audio input coupling	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-86	V-11 audio input coupling	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-87	CW noise limiter audio input coupling	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00

PARTS LIST

Section VI

ITEM	CIRCUIT FUNCTION	DESCRIPTION	PART NUMBER
C-88	BFO (L-27) padding	CAPACITOR: part of L-27	
C-89	BFO (L-27) pitch adjust	CAPACITOR: part of L-27	
C-90	BFO (V-12) grid blocking	CAPACITOR: mica; 100 mmf $\pm 10\%$, 500 WV	912 0495 00
C-91	V-12 screen by-pass	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-92	V-12 output coupling	CAPACITOR: mica; 10 mmf $\pm 10\%$, 500 WV	912 0432 00
C-93	V-12 screen decoupling	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-94	Back bias filter	CAPACITOR: electrolytic; 50 mf -10% $+100\%$, 150 WV	183 1045 00
C-95	C-95A and C-95B	CAPACITOR: electrolytic; dual sect, 40 mf -15% $+100\%$ ea sect, 450 WV	183 1009 00
C-95A	Power supply filter	CAPACITOR: 40 mf; part of C-95	
C-95B	Power supply filter	CAPACITOR: 40 mf; part of C-95	
C-96	Back bias by-pass	CAPACITOR: paper; .1 mf $\pm 20\%$, 150 WV	931 0239 00
C-97	V-9 cathode by-pass	CAPACITOR: electrolytic; 20 mf -10% $+100\%$, 150 WV	183 1042 00
C-98	AVC time constant	CAPACITOR: paper; .1 mf $\pm 10\%$, 150-200 WV	931 0333 00
C-99	V-11 plate stabilizing	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-100	CW noise limiter V-16 cathode by-pass	CAPACITOR: paper; .1 mf $\pm 20\%$, 150 WV	931 0239 00
C-101	V-4 screen and plate decoupling	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-102	B+ decoupling	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-103	B+ by-pass	CAPACITOR: paper; .5 mf $\pm 20\%$ -10% , 600 WV	931 0205 00
C-104	Tweet trap series	CAPACITOR: mica; 270 mmf $\pm 5\%$, 500 WV	912 0524 00
C-105	T-7 top coupling	CAPACITOR: mica; 10 mmf $\pm 10\%$, 500 WV	912 0432 00
C-106	V-1 cathode by-pass	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00

ITEM	CIRCUIT FUNCTION	DESCRIPTION	PART NUMBER
C-107		Not Used	
C-108	T-4 coupling	CAPACITOR: ceramic; 5 mmf $\pm 1/2$ mmf, 500 WV	916 4385 00
C-109	T-5 coupling	CAPACITOR: ceramic; 5 mmf $\pm 1/2$ mmf, 500 WV	916 4385 00
C-110	T-6 coupling	CAPACITOR: mica; 10 mmf $\pm 10\%$, 500 WV	912 0432 00
C-111	V-11 grid filter	CAPACITOR: mica; 100 mmf $\pm 10\%$, 500 WV	912 0495 00
C-112	V-9 grid filter	CAPACITOR: mica; 100 mmf $\pm 10\%$, 500 WV	912 0495 00
C-113	Decoupling	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
E-1	Antenna connector	STRIP: terminal; 3 screw term on bakelite board	306 0033 00
E-2		Not used	
E-3	Speaker connector	STRIP: terminal; 4 screw term on bakelite board	306 0034 00
E-4	Meeting-stand by connector	STRIP: terminal; 4 screw term on bakelite board	306 0034 00
E-5		Not used	
E-6		PARASITIC SUPPRESSOR: 47 ohm; #24 bus wire	504 7064 001
F-1	Line fuse	FUSE: cartridge; 2 amp, 250 V	264 4070 00
I-1	Meter illuminating	LAMP: Part of M-1	
I-2	Vernier dial	LAMP: pilot light bulb w/miniature bayonet base	262 3240 00
I-3	Megacycle dial	LAMP: pilot light bulb w/miniature bayonet base	262 3240 00
I-4	Megacycle dial	LAMP: pilot light bulb w/miniature bayonet base	262 3240 00
J-1	Phones jack	JACK: phone; 2 circuit, for 1/4" diam plug	360 0025 00
J-2		Not used	

PARTS LIST

Section VI

ITEM	CIRCUIT FUNCTION	DESCRIPTION	PART NUMBER
J-3		Not used	
J-4	NBFM adaptor	SOCKET: octal	220 1015 00
J-5	Crystal calibrator adaptor	SOCKET: octal	220 1015 00
L-1	40 meter r-f inductance	COIL, RF: single wnd, single layer wnd, 18 turns #28 AWG DS wire	504 7000 001
L-2	20 meter r-f inductance	COIL, RF: single wnd, single layer wnd, 9 turns #28 AWG DS wire	504 6999 001
L-3	15 meter r-f inductance	COIL, RF: single wnd, single layer wnd, 7 turns #28 AWG DS wire	504 6997 001
L-4	11 meter r-f inductance	COIL, RF: single wnd, single layer wnd, 12 turns #28 AWG DS wire	504 6996 001
L-5	10 meter r-f inductance	COIL, RF: single wnd, single layer wnd, 12 turns #28 AWG DS wire	504 6996 001
L-6	80 meter mixer inductance	COIL, RF: single wnd, single layer wnd, 16 turns #26 AWG E wire	504 7037 002
L-7	40 meter mixer inductance	COIL, RF: single wnd, single layer wnd, 18 turns #28 AWG DS wire	504 7000 001
L-8	20 meter mixer inductance	COIL, RF: single wnd, single layer wnd, 9 turns #28 AWG DS wire	504 6999 001
L-9	15 meter mixer inductance	COIL, RF: single wnd, single layer wnd, 7 turns #28 AWG DS wire	504 6997 001
L-10	11 meter mixer inductance	COIL, RF: single wnd, single layer wnd, 12 turns #28 AWG DS wire	504 6996 001
L-11	10 meter mixer inductance	COIL, RF: single wnd, single layer wnd, 12 turns #28 AWG DS wire	504 6996 001
L-12	80 meter crystal inductance	COIL, RF: 5.7 mc, single wnd, single layer wnd, 16 turns #28 AWG E wire	504 7004 001
L-13	40 meter crystal inductance	COIL, RF: single wnd, single layer wnd, 12 turns #28 AWG DS wire	504 6998 001
L-14	20 meter crystal inductance	COIL, RF: single wnd, single layer wnd, 7 turns #28 AWG DS wire	504 6997 001

ITEM	CIRCUIT FUNCTION	DESCRIPTION	PART NUMBER
L-15	15 meter crystal inductance	COIL, RF: 23, 31, 33 mc; single wnd, single layer wnd, 5 turns #28 AWG DS wire	504 7001 001
L-16	11 meter crystal inductance	COIL, RF: 23, 31, 33 mc; single wnd, single layer wnd, 5 turns #28 AWG DS wire	504 7001 001
L-17	10 meter crystal inductance	COIL, RF: 23, 31, 33 mc; single wnd, single layer wnd, 5 turns #28 AWG DS wire	504 7001 001
L-18	Low freq. variable i-f inductance	COIL, RF: 1.5-2.5 mc, single wnd, single layer wnd, 52 turns #32 AWG E wire	504 7005 001
L-19	High freq. variable i-f inductance	COIL, RF: single pie, duo lat wnd, 94 turns litz wire	504 7002 001
L-20	Tweet trap inductance	COIL, RF: choke, 500 uh; 3 pie univeral wnd, 112 turns ea pie	240 0073 00
L-21	Variable i-f trimmer inductance	COIL, RF: 5.7 mc, single wnd, single layer wnd, 16 turns #28 AWG E wire	505 1738 001
L-22	Low freq. variable i-f inductance	Coil, RF: 1.5-2.5 mc, single wnd, single layer wnd, 52 turns #32 AWG E wire	504 7005 001
L-23	High freq. variable i-f inductance	COIL, RF: single pie, duo lat wnd, 94 turns litz wire	504 7002 001
L-24	455 KC i-f input	COIL, RF: crystal filter grid; freq range 440-470 kc (incl. C-60)	278 0085 00
L-25	HF oscillator	COIL, RF: single wnd, single layer wnd, 29 turns #28 AWG DE wire	504 6565 002
L-26	HF oscillator	INDUCTOR: variable; 4 turns #29 ga copper wire; 33-43 mc tuning range	242 0001 00
L-27	BFO inductance	COIL, RF: BFO; freq. range 440-470 kc (incl C-88, C-89)	278 0082 00
L-28	Power supply filter	REACTOR: filter; 5.0 hy at 0.080 amp	668 0019 00
L-29	Power supply filter	REACTOR: filter; 3.0 hy at 0.120 amp	668 0020 00
M-1	"S" meter	METER: signal level; 1 ma DC, 50 ohm +20% DC resistance, illuminated dial (incl. I-1)	458 0044 00
P-1		CONNECTOR: not used	

PARTS LIST

Section VI

ITEM	CIRCUIT FUNCTION	DESCRIPTION	PART NUMBER
P-2	A-C power cord and plug	CONNECTOR: two conductor flexible AC cord; std AC plug	426 1003 00
R-1	V-1 grid	RESISTOR: 1.0 megohm $\pm 10\%$, 1/2 w	745 1212 00
R-2	V-1 grid decoupling	RESISTOR: 10,000 ohm $\pm 10\%$, 1/2 w	745 1128 00
R-3	V-1 screen	RESISTOR: 33,000 ohm $\pm 10\%$, 1/2 w	745 1149 00
R-4	V-3 stabilizing	RESISTOR: 47 ohm $\pm 10\%$, 1/2 w	745 1030 00
R-5	V-1 plate decoupling	RESISTOR: 2200 ohm $\pm 10\%$, 1/2 w	745 1100 00
R-6	V-2 grid	RESISTOR: .47 megohm $\pm 10\%$, 1/2 w	745 1198 00
R-7	V-2 cathode	RESISTOR: 560 ohm $\pm 5\%$, 1/2 w	745 1076 00
R-8	V-2 screen	RESISTOR: 10,000 ohm $\pm 10\%$, 1 w	745 3128 00
R-9	V-3 cathode	RESISTOR: 330 ohm $\pm 10\%$, 1/2 w	745 1065 00
R-10	V-3 cathode	RESISTOR: 330 ohm $\pm 10\%$, 1/2 w	745 1065 00
R-11	V-3 grid	RESISTOR: 4700 ohm $\pm 10\%$, 1/2 w	745 1114 00
R-12	V-3 plate decoupling	RESISTOR: 2200 ohm $\pm 10\%$, 1/2 w	745 1100 00
R-13	V-2 plate decoupling	RESISTOR: 2200 ohm $\pm 10\%$, 1/2 w	745 1100 00
R-14	V-4 grid	RESISTOR: .10 megohm $\pm 10\%$, 1/2 w	745 1170 00
R-15	V-4 cathode	RESISTOR: 470 ohm $\pm 10\%$, 1/2 w	745 1072 00
R-16	V-4 screen dropping	RESISTOR: 33,000 ohm $\pm 10\%$, 1/2 w	745 1149 00
R-17	V-4 plate decoupling	RESISTOR: 2200 ohm $\pm 10\%$, 1/2 w	745 1100 00
R-18	Sensitivity control	RESISTOR: 33,000 ohm $\pm 10\%$, 1/2 w	745 1149 00
R-19	Sensitivity	RESISTOR: 5600 ohm $\pm 10\%$, 1/2 w	745 1118 00
R-20	Sensitivity	RESISTOR: 1500 ohm $\pm 10\%$, 1/2 w	745 1093 00
R-21	V-5 grid decoupling	RESISTOR: 10,000 ohm $\pm 10\%$, 1/2 w	745 1128 00
R-22	V-5 screen voltage divider	RESISTOR: 68,000 ohm $\pm 10\%$, 1/2 w	745 1163 00
R-23	V-5 screen dropping	RESISTOR: 47,000 ohm $\pm 10\%$, 1/2 w	745 1156 00

ITEM	CIRCUIT FUNCTION	DESCRIPTION	PART NUMBER
R-24	V-5 plate decoupling	RESISTOR: 2200 ohm $\pm 10\%$, 1/2 w	745 1100 00
R-25	V-6 grid decoupling	RESISTOR: 10,000 ohm $\pm 10\%$, 1/2 w	745 1128 00
R-26	V-6 screen voltage divider	RESISTOR: 68,000 ohm $\pm 10\%$, 1/2 w	745 1163 00
R-27	V-6 screen dropping	RESISTOR: 22,000 ohm $\pm 10\%$, 1/2 w	745 1142 00
R-28	V-6 plate decoupling	RESISTOR: 2200 ohm $\pm 10\%$, 1/2 w	745 1100 00
R-29	V-7 grid decoupling	RESISTOR: 10,000 ohm $\pm 10\%$, 1/2 w	745 1128 00
R-30	V-7 screen dropping	RESISTOR: 47,000 ohm $\pm 10\%$, 1/2 w	745 1156 00
R-31	V-7 plate decoupling	RESISTOR: 2200 ohm $\pm 10\%$, 1/2 w	745 1100 00
R-32	AVC rectifier load	RESISTOR: .10 megohm $\pm 10\%$, 1/2 w	745 1170 00
R-33	AVC amplr. input filter	RESISTOR: .47 megohm $\pm 10\%$, 1/2 w	745 1198 00
R-34	AVC amplr. input filter	RESISTOR: 0.12 megohm $\pm 10\%$, 1/2 w	745 1174 00
R-35	AVC amplr. stabilizing	RESISTOR: .10 megohm $\pm 10\%$, 1/2 w	745 1170 00
R-36	Back bias	RESISTOR: 100 ohm $\pm 10\%$, 2 w	745 5044 00
R-37	Back bias	RESISTOR: wire wound; 350 ohm $\pm 10\%$, 10 w	710 1350 20
R-38	Back bias	RESISTOR: 120 ohm $\pm 10\%$, 2 w	745 5048 00
R-39	Noise limiter	RESISTOR: 47,000 ohm $\pm 10\%$, 1/2 w	745 1156 00
R-40	Noise limiter	RESISTOR: 47,000 ohm $\pm 10\%$, 1/2 w	745 1156 00
R-41	Noise limiter cathode	RESISTOR: .47 megohm $\pm 10\%$, 1/2 w	745 1198 00
R-42	Noise limiter	RESISTOR: .47 megohm $\pm 10\%$, 1/2 w	745 1198 00
R-43	V-9 cathode	RESISTOR: 6800 ohm $\pm 10\%$, 1/2 w	745 1121 00
R-44	Audio gain control	RESISTOR, variable: 500,000 ohm $\pm 20\%$, 1/4 w	376 4499 00
R-45	V-9 plate	RESISTOR: .22 megohm $\pm 10\%$, 1/2 w	745 1184 00
R-46	V-11 grid	RESISTOR: .10 megohm $\pm 10\%$, 1/2 w	745 1170 00

ITEM	CIRCUIT FUNCTION	DESCRIPTION	PART NUMBER
R-47	S meter bridge	RESISTOR: 100 ohm $\pm 10\%$, 1/2 w	745 1044 00
R-48		RESISTOR: not used	
R-49	S meter zero adjust	RESISTOR, variable: 100 ohm $\pm 10\%$, 1 w	377 0122 00
R-50	V-7 cathode	RESISTOR: 150 ohm $\pm 10\%$, 1/2 w	745 1051 00
R-51	V-12 grid	RESISTOR: .15 megohm $\pm 10\%$, 1/2 w	745 1177 00
R-52	V-12 plate dropping	RESISTOR: .10 megohm $\pm 10\%$, 1/2 w	745 1170 00
R-53	V-12 screen dropping	RESISTOR: 33,000 ohm $\pm 10\%$, 1/2 w	745 1149 00
R-54	V-12 plate decoupling	RESISTOR: 10,000 ohm $\pm 10\%$, 1/2 w	745 1128 00
R-55	AVC filter	RESISTOR: 220,000 ohm $\pm 10\%$, 1/2 w	745 1184 00
R-56	AVC amplr. plate dropping	RESISTOR: 10,000 ohm $\pm 10\%$, 1/2 w	745 1128 00
R-57	R-F gain control	RESISTOR, variable: 10,000 ohm $\pm 10\%$ 1/2 w	376 3522 00
R-58	R-F gain series	RESISTOR: 330 ohm $\pm 10\%$, 1/2 w	745 1065 00
R-59	Audio load	RESISTOR: 10 ohm $\pm 10\%$, 2 w	745 5002 00
R-60	V-2 injection grid	RESISTOR: 22,000 ohm $\pm 10\%$, 1/2 w	745 1142 00
R-61	V-9 cathode	RESISTOR: 2200 ohm $\pm 10\%$, 1/2 w	745 1100 00
R-62	CW LIMITER control	RESISTOR, variable: 10,000 ohm $\pm 20\%$ 1/2 w	376 4022 00
R-63	CW limiter voltage divider	RESISTOR: 68,000 ohm $\pm 10\%$, 1 w	745 3163 00
R-64	B _r isolation	RESISTOR: 1000 ohm $\pm 10\%$, 1 w	745 3086 00
R-65	V-1 grid voltage divider	RESISTOR: 1 megohm $\pm 10\%$, 1/2 w	745 1212 00
R-66	V-1 cathode	RESISTOR: 120 ohm $\pm 10\%$, 1/2 w	745 1048 00
R-67	M-1 shunt	RESISTOR: 100 ohm $\pm 10\%$, 1/2 w	745 1044 00
R-68	T-3 primary load	RESISTOR: .10 megohm $\pm 10\%$, 1/2 w	745 1170 00

ITEM	CIRCUIT FUNCTION	DESCRIPTION	PART NUMBER
R-69	V-1 stabilizer	RESISTOR: 47 ohm $\pm 10\%$, 1/2 w	745 1030 00
R-70	Regulator dropping	RESISTOR: 2500 ohm $\pm 10\%$, 10 w size	710 0030 00
S-1	S-1A, B, C, D, E, F, G, and H	SWITCH, rotary: consists of:	
S-1A	Variable i-f selecting	SWITCH, rotary: 1 circuit, 7 position, shorting	269 1294 00
S-1B	Variable i-f selecting	SWITCH, rotary: 1 circuit, 7 position, shorting	269 1294 00
S-1C	Variable i-f selecting	SWITCH, rotary: 1 circuit, 7 position, shorting	269 1294 00
S-1D	Crystal coil selecting	SWITCH, rotary: 1 circuit, 6 position, shorting	269 1293 00
S-1E	Crystal selector	SWITCH, rotary: 1 circuit, 6 position, shorting	269 1293 00
S-1F	Mixer grid coil selecting	SWITCH, rotary: 1 circuit, 7 position, shorting	269 1296 00
S-1G	R-F amplr. grid coil selecting	SWITCH, rotary: 1 circuit, 7 position, shorting	269 1296 00
S-1H	Antenna coil selecting	SWITCH, rotary: 1 circuit, 7 position, shorting	269 1295 00
S-2	SELECTIVITY selector	SWITCH, rotary: band change; 1 circuit, 5 position, shorting	259 0415 00
S-3	CW - AM - FM selecting	SWITCH, rotary: 1 circuit, 3 position, shorting	259 0416 00
S-4	LIMITER	SWITCH, rotary: 2 circuit, 3 position, non-shorting	259 0417 00
S-5	OFF-STAND BY-ON	SWITCH, rotary: band change; 2 circuit, 3 position, shorting	259 0363 00
T-1	160 meter r-f coil assembly	COIL, RF: two wnd, single layer wnd, one wnd w/ 51 turns, other wnd w/ 4 turns	504 7038 002
T-2	80 meter r-f coil assembly	COIL, RF: two wnd, single layer wnd, one wnd w/ 16 turns, other wnd w/ 3 turns	504 7039 002

ITEM	CIRCUIT FUNCTION	DESCRIPTION	PART NUMBER
T-3	Second mixer plate coil assembly	TRANSFORMER: crystal filter plate; freq. range 440-470 kc (incl. C-56)	278 0083 00
T-4	V-5 plate coil assembly	TRANSFORMER: intermediate freq. 455; freq. range 440-470 kc (incl C-63, C-65)	278 0084 00
T-5	V-6 grid coil assembly	TRANSFORMER: intermediate freq. 455; freq. range 440-470 kc (incl C-66, C-67)	278 0084 00
T-6	V-6, V-7 i-f coil assembly	TRANSFORMER: intermediate freq. 455; freq. range 440-470 kc (incl C-70, C-72)	278 0084 00
T-7	V-7, V-8 i-f coil assembly	TRANSFORMER: intermediate freq. 455; freq. range 440-470 kc (incl C-76, C-78)	278 0084 00
T-8	Audio output	TRANSFORMER: audio output; pri 5000 ohm, secd 500 ohm tapped at 4 ohm, 2500 TV	667 0018 00
T-9	Power supply	TRANSFORMER, power: pri 117 v, secd #1; 700 v CT, secd #2: 5.0 v secd #3: 6.3 v, 2500 TV, 50/60 cps	662 0017 00
V-1	RF amplr.	TUBE: type 6AK5; pentode	257 0040 00
V-2	First mixer	TUBE: type 6BE6; pentagrid	257 0048 00
V-3	Crystal oscillator	TUBE: type 12AT7; double triode	255 0205 00
V-4	Second mixer	TUBE: type 6BE6; pentagrid	257 0048 00
V-5	I-f amplifier	TUBE: type 6BA6; pentode	255 0185 00
V-6	I-f amplifier	TUBE: type 6BA6; pentode	255 0185 00
V-7	I-f amplifier	TUBE: type 6BA6; pentode	255 0185 00
V-8	Detector and AVC rectifier	TUBE: type 6AL5; double diode	257 0018 00
V-9	AVC and AF amplifier	TUBE: type 12AX7; double triode	255 0201 00
V-10	Automatic noise limiter	TUBE: type 6AL5; double diode	257 0018 00
V-11	Audio output	TUBE: type 6AQ5; beam pentode	255 0195 00
V-12	Beat frequency oscillator	TUBE: type 6BA6; pentode	255 0185 00

ITEM	CIRCUIT FUNCTION	DESCRIPTION	PART NUMBER
V-13	Power supply rectifier	TUBE: type 5Y3GT; full wave rectifier	255 0157 00
V-14	VFO	TUBE: type 6BA6; pentode	255 0185 00
V-15	VFO isolation	TUBE: type 6BA6; pentode	255 0185 00
V-16	CW noise limiter	TUBE: type 6AL5; double diode	257 0018 00
V-17	Voltage Regulator	TUBE: type 0A2;	257 0252 00
XF-1	Fuse holder	FUSE HOLDER: extractor post for 3AG fuse	265 1002 00
XI-2	Socket for I-2	LAMPHOLDER: for use w/ T-3 1/4 miniature bayonet base bulb	262 0150 00
XI-3, XI-4	Socket for I-3 and I-4	LAMPHOLDER: bracket for miniature bayonet base bulb	262 1210 00
XV-1, XV-2	Socket for V-1, V-2	SOCKET, tube: 7 contact miniature	220 1046 00
XV-3	Socket for V-3	SOCKET, tube: 9 contact miniature	220 1053 00
XV-4	Socket for V-4	SOCKET, tube: 7 contact miniature, accom shield	220 1034 00
XV-5, XV-6, XV-7, XV-8	Socket for V-5, V-6 V-7, V-8	SOCKET, tube: 7 contact miniature	220 1046 00
XV-9	Socket for V-9	SOCKET, tube: 9 contact miniature	220 1053 00
XV-10, XV-11, XV-12	Socket for V-10, V-11, V-12	SOCKET, tube: 7 contact miniature	220 1046 00
XV-13	Socket for V-13	SOCKET, tube: octal	220 1015 00
XV-14, XV-15, XV-16, XV-17	Socket for V-14, V-15, V-16, V-17	SOCKET, tube: 7 contact miniature	220 1046 00
XY-1, XY-2, XY-3, XY-4, XY-5, XY-6	Socket for Y-1, Y-2, Y-3, Y-4, Y-5, Y-6	SOCKET, crystal: 6 crystal holders on phenolic board	504 7063 00

PARTS LIST

Section VI

ITEM	CIRCUIT FUNCTION	DESCRIPTION	PART NUMBER
Y-1	80 meter band crystal	CRYSTAL: 5.7 mc	291 8070 00
Y-2	40 meter band crystal	CRYSTAL: 9.3 mc	291 8071 00
Y-3	20 meter band crystal	CRYSTAL: 16.5 mc	291 8072 00
Y-4	15 meter band crystal	CRYSTAL: 23.3 mc	291 8073 00
Y-5	11 meter band crystal	CRYSTAL: 31.455 mc	291 8074 00
Y-6	10 meter band crystal	CRYSTAL: 33.455 mc	291 8075 00
Y-7	455 kc filter crystal	CRYSTAL: 455 kc	291 5957 00
70E-12	OSCILLATOR (VFO)	This unit has been dehydrated and hermetically sealed, and should be returned to the Collins Radio Company if servicing is required.	

Type 148C-1 NBFM ADAPTER

ITEM	CIRCUIT FUNCTION	DESCRIPTION	PART NUMBER
C-201	Input coupling	CAPACITOR: mica; 10 mmf $\pm 10\%$, 500 WV	912 0432 00
C-202	Screen by-pass	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-203	V-201 plate decoupling	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-204	T-201 secondary tuning	CAPACITOR: part of T-201	
C-205	T-201 secondary tuning	CAPACITOR: part of T-201	
C-206	Output r-f filter	CAPACITOR: mica; 100 mmf $\pm 10\%$, 500 WV	912 0495 00
C-207	Output r-f filter	CAPACITOR: mica; 100 mmf $\pm 10\%$, 500 WV	912 0495 00
C-208	De-emphasis	CAPACITOR: mica; 220 mmf $\pm 10\%$, 500 WV	912 0519 00
P-203	Power connector	CONNECTOR, receptacle: 8 male contacts	369 1013 00
R-201	V-201 grid	RESISTOR: 1.0 megohm $\pm 10\%$, 1/2 w	745 1212 00
R-202	V-201 screen bleeder	RESISTOR: 33,000 ohm $\pm 10\%$, 1/2 w	745 1149 00
R-203	V-201 screen dropping	RESISTOR: 33,000 ohm $\pm 10\%$, 1/2 w	745 1149 00
R-204	V-201 plate decoupling	RESISTOR: 1000 ohm $\pm 10\%$, 1/2 w	745 1086 00
R-205	V-202 plate decoupling	RESISTOR: 22,000 ohm $\pm 10\%$, 1/2 w	745 1142 00
R-206	Diode load	RESISTOR: .10 megohm $\pm 10\%$, 1/2 w	745 1170 00
R-207	Diode load	RESISTOR: .10 megohm $\pm 10\%$, 1/2 w	745 1170 00
R-208	De-emphasis	RESISTOR: .10 megohm $\pm 10\%$, 1/2 w	745 1170 00
T-201	Discriminator	TRANSFORMER: narrow band discriminator; 455 kc center frequency	278 0089 00
V-201	Limiter	TUBE: type 6AU6; pentode	255 0202 00
V-202	Discriminator	TUBE: type 6AL5; twin diode rectifier	257 0018 00
XV-201, XV-202	Socket for V-201, V-202	SOCKET, tube: 7 pin miniature	220 1046 00

8B-1 CRYSTAL CALIBRATOR

ITEM	CIRCUIT FUNCTION	DESCRIPTION	PART NUMBER
C-301	Calibration oscillator zero adj	CAPACITOR, variable: ceramic; 5-25 mmf, 350 WV	917 1036 00
C-302	Cathode by-pass	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
C-303	Screen by-pass	CAPACITOR: mica; 220 mmf $\pm 10\%$, 500 WV	912 0519 00
C-304	Screen decoupling	CAPACITOR: ceramic; 10,000 mmf, 350 WV	913 0566 00
P-304	Power connector	CONNECTOR, receptacle: 8 male contacts	369 1013 00
R-301	Grid	RESISTOR: 0.68 meg $\pm 10\%$, 1/2 w	745 1205 00
R-302	Cathode	RESISTOR: 4700 ohm $\pm 10\%$, 1/2 w	745 1114 00
R-303	Screen dropping	RESISTOR: .10 megohm $\pm 10\%$, 1/2 w	745 1170 00
R-304	Screen voltage divider	RESISTOR: .22 megohm $\pm 10\%$, 1/2 w	745 1184 00
R-305	Decoupling	RESISTOR: 10,000 ohm $\pm 10\%$, 1/2 w	745 1128 00
V-301	Oscillator	TUBE: type 6BA6; pentode	255 0185 00
XV-301	Socket for V-301	SOCKET, tube: 7 pin miniature	220 1046 00
XY-301	Socket for crystal	SOCKET, crystal: steatite	292 0055 00
Y-301	100 kc calibrator	CRYSTAL: special; 100 kc	291 5954 00
LS-	Loud speaker	SPEAKER: permanent magnet; 6-8 voice coil impedance, 8 w	271 0076 00

