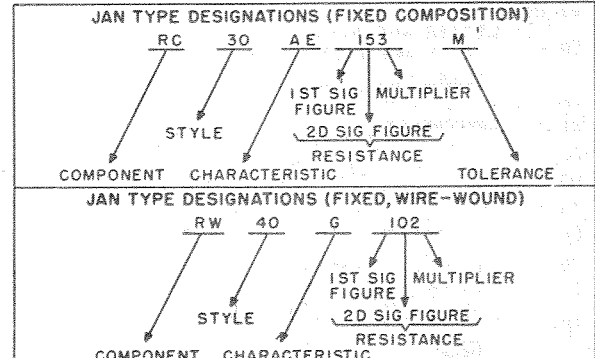
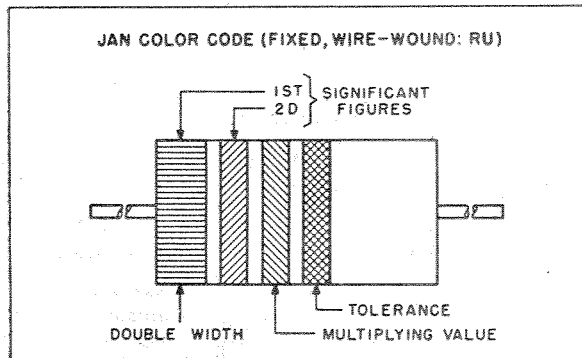
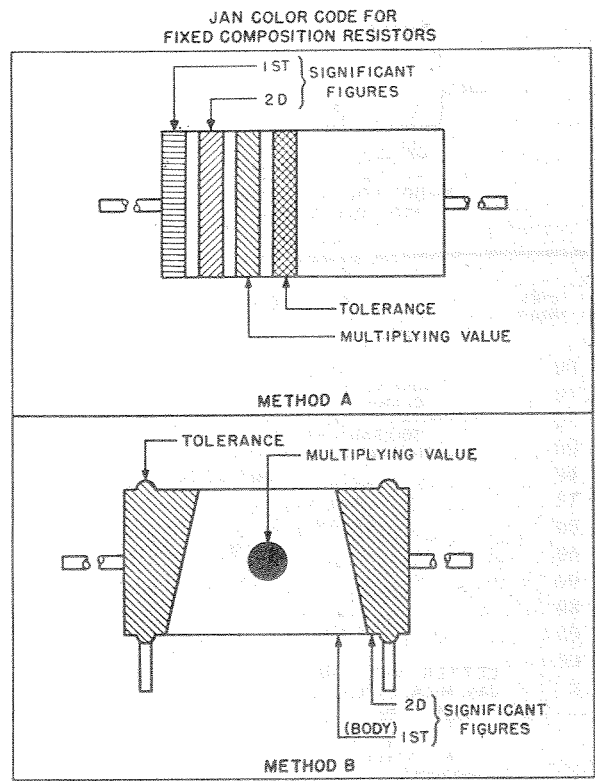
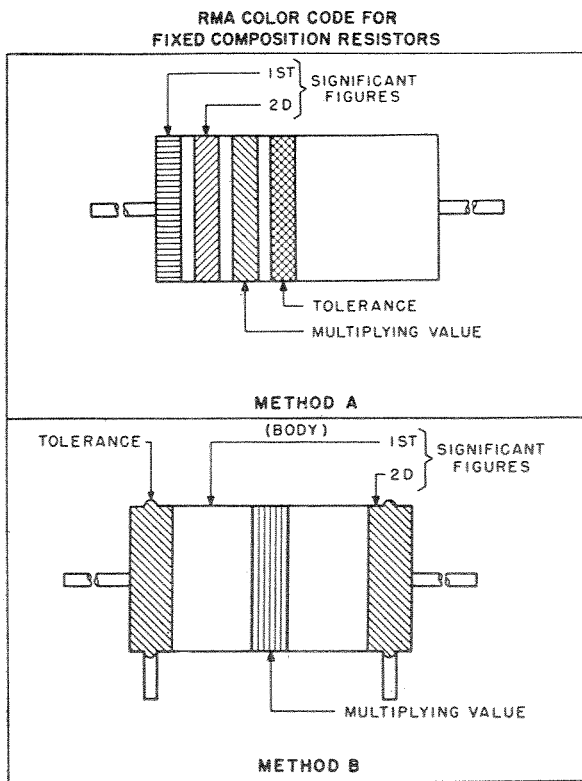


2. Identification Table of Parts for Radio Receiver R-274/FRR—Continued

Ref symbol	Name of part and description	Function of part	Signal Corps stock No.
T30	TRANSFORMER, IF: 455 kc; interstage 3d IF.	3rd 455-kc intermediate frequency	2Z9642-135
T25	TRANSFORMER, IF: 6 mc.	6-mc input	2Z9643-389
T26	TRANSFORMER, IF: 6 mc; output	6-mc output	2Z9643-390
T27	TRANSFORMER, IF: 6.455 mc xtal oscillator.	6.455-mc crystal oscillator	2Z9643-391
T34	TRANSFORMER, power fil and plate type; input 95/105/117/130/190/210/234/260/v ac. 60 cyc single ph; secd #1, 6.3 v at 6.3 amp, secd #2, 5.0 v at 3.0 amp, secd #3, 350 v ac. at .150 amp CT, secd #4, 12.0 v at .6 amp; HS metal case.	Power	2Z9608-124
T1	TRANSFORMER, variable RF: unshielded	Turret band #1 antenna	2Z9629-276
T13	TRANSFORMER, variable RF: unshielded	Turret band #1 mixer	2Z9629-288
T19	TRANSFORMER, variable RF: unshielded	Turret band #1 oscillator	2Z9629-294
T7	TRANSFORMER, variable RF: unshielded	Turret band #1 rf	2Z9629-282
T2	TRANSFORMER, variable RF: unshielded	Turret band #2 antenna	2Z9629-277
T20	TRANSFORMER, variable RF: unshielded	Turret band #2 oscillator	2Z9629-295
T14	TRANSFORMER, variable RF: unshielded	Turret band #2 mixer	2Z9629-289
T8	TRANSFORMER, variable RF: unshielded	Turret band #2 rf	2Z9629-283
T3	TRANSFORMER, variable RF: unshielded	Turret band #3 antenna	2Z9629-278
T15	TRANSFORMER, variable RF: unshielded	Turret band #3 mixer	2Z9629-290
T21	TRANSFORMER, variable RF: unshielded	Turret band #3 oscillator	2Z9629-296
T9	TRANSFORMER, variable RF: unshielded	Turret band #3 rf	2Z9629-284
T4	TRANSFORMER, variable RF: unshielded	Turret band #4 antenna	2Z9629-279
T16	TRANSFORMER, variable RF: unshielded	Turret band #4 mixer	2Z9629-291
T22	TRANSFORMER, variable RF: unshielded	Turret band #4 oscillator	2Z9629-297
T10	TRANSFORMER, variable RF: unshielded	Turret band #4 rf	2Z9629-285
T5	TRANSFORMER, variable RF: unshielded	Turret band #5 antenna	2Z9629-280
T17	TRANSFORMER, variable RF: unshielded	Turret band #5 mixer	2Z9629-292
T23	TRANSFORMER, variable RF: unshielded	Turret band #5 oscillator	2Z9629-298
T11	TRANSFORMER, variable RF: unshielded	Turret band #5 rf	2Z9629-286
T6	TRANSFORMER, variable RF: unshielded	Turret band #6 antenna	2Z9629-281
T18	TRANSFORMER, variable RF: unshielded	Turret band #6 mixer	2Z9629-293
T24	TRANSFORMER, variable RF: unshielded	Turret band #6 oscillator	2Z9629-299
T12	TRANSFORMER, variable RF: unshielded	Turret band #6 rf	2Z9629-287

RESISTOR COLOR AND LETTER CODE



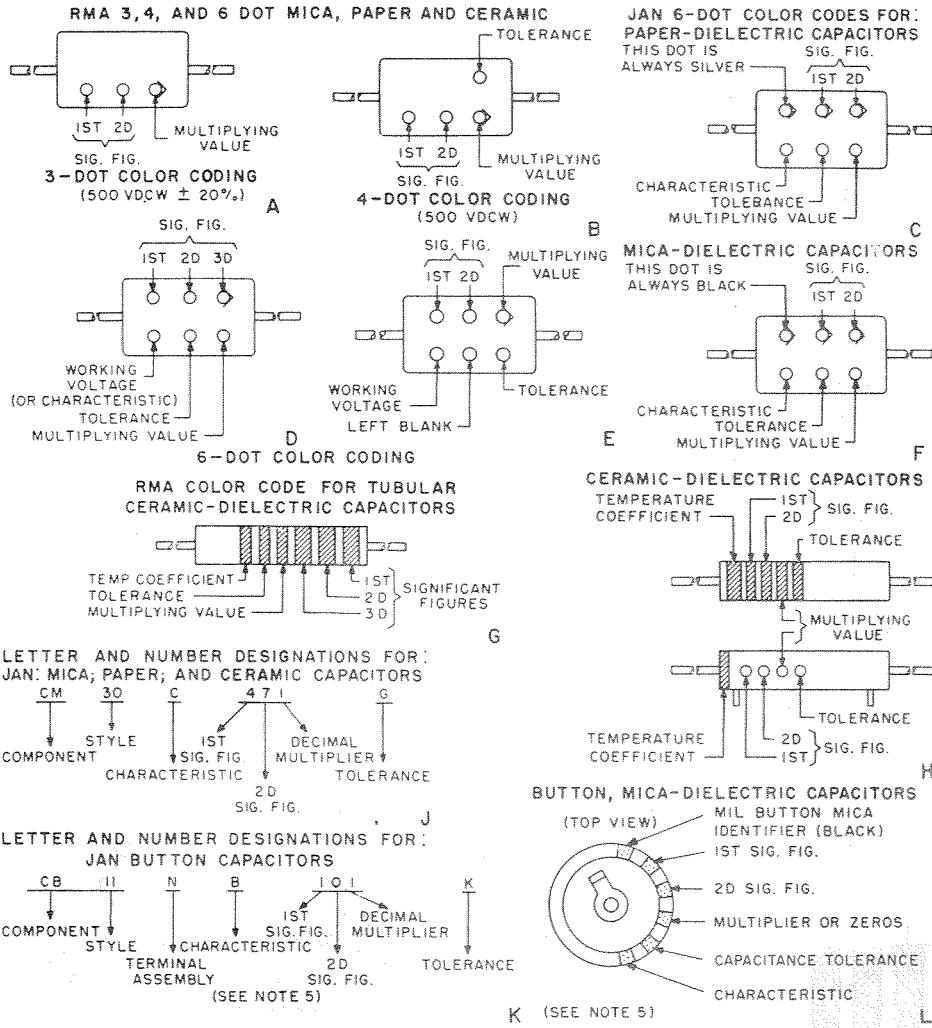
STANDARDS				
COLOR	SIGNIFICANT FIGURE	MULTIPLYING VALUE	TOLERANCE (%)	JAN LETTER TOLERANCE
BLACK	0	1	-	-
BROWN	1	10	± 1	F
RED	2	100	± 2	G
ORANGE	3	1,000	± 3	-
YELLOW	4	10,000	± 4	-
GREEN	5	100,000	± 5	-
BLUE	6	1,000,000	± 6	-
VIOLET	7	10,000,000	± 7	-
GRAY	8	100,000,000	± 8	-
WHITE	9	1,000,000,000	± 9	-
GOLD	-	0.1	± 5	J
SILVER	-	0.01	± 10	K
NO COLOR	-	-	± 20	M

- NOTES:**
1. RESISTORS WITH AXIAL LEADS ARE INSULATED. RESISTORS WITH RADIAL LEADS ARE NON-INSULATED.
 2. RMA: RADIO MANUFACTURERS ASSOCIATION.
 3. JAN: JOINT ARMY - NAVY.
 4. THESE COLOR AND NUMBER CODES GIVE ALL RESISTANCE VALUES IN OHMS.
 5. RESISTIVE COMPONENTS USED FOR LETTER TOLERANCES ARE: RC, RN, AND RU.
 6. WATTAGE FOR RW TYPES IS FOUND IN THE JAN SPECIFICATIONS UNDER CHARACTERISTICS.

TMRC

Figure 44. Resistor color codes.

CAPACITOR COLOR AND LETTER CODES



- STANDARDS -				JAN MICA-CM		JAN PAPER-CP		JAN CERAMIC-CC						
COLOR	SIG. FIG.	DECIMAL MULTIPLIER	% TOL.	VDCW	LETTER TOL.	CHARAC-TERISTIC	LETTER TOL.	CHARAC-TERISTIC	DEC. MULT.	%	LETTER DESIGNATION	UUF	LETTER DESIGNATION	CHARAC-TERISTIC
BLACK	0	1	±20	500	M	A	M	A	1	±20	M	±2.0	G	C
BROWN	1	10	±1	100	-	B	-	E	10	±1	F	-	-	H
RED	2	100	±2	200	G	C	-	H	100	±2	G	-	-	L
ORANGE	3	1,000	±3	300	-	D	N*	J	1,000	-	-	-	-	P
YELLOW	4	10,000	±4	400	-	E	-	P	-	-	-	-	-	R
GREEN	5	100,000	±5	500	-	F	-	R	-	±5	J	±0.5	D	S
BLUE	6	1,000,000	±6	600	-	G	-	S	-	-	-	-	-	T
VIOLET	7	10,000,000	±7	700	-	-	-	T	-	-	-	-	-	U
GRAY	8	100,000,000	±8	800	-	-	-	-	0.01	-	-	±0.25	C	B
WHITE	9	1,000,000,000	±9	900	-	-	-	-	0.1	±10	K	±1.0	F	SL
GOLD	-	0.1	±5	1,000	J	-	-	-	-	-	-	-	-	A
SILVER	-	0.01	±10	2,000	K	-	K	-	-	-	-	-	-	-
NO COLOR	-	-	±20	500	-	-	-	-	-	-	-	-	-	-

* THE TOLERANCE OF THIS CAPACITOR IS ±30%, NOT ±20%

NOTES

- JAN: JOINT ARMY-NAVY
RMA: RADIO MANUFACTURERS ASSOCIATION
- THESE COLOR AND LETTER CODES GIVE CAPACITANCES IN MICROMICROFARADS
 - THIS TABLE IS ADAPTED FOR JAN AND RMA COLOR AND JAN LETTER TYPE DESIGNATIONS
 - CERAMIC AND MICA CAPACITORS, BOTH JAN AND RMA, ARE GENERALLY 500 VDCW
 - BUTTON CAPACITORS ARE GENERALLY 300 VDCW
 - READ BUTTON CAPACITOR TOLERANCE UNDER CERAMICS OF MORE THAN 10 UUF
 - CHARACTERISTICS ARE AVAILABLE IN JAN CAPACITOR SPECIFICATION MANUALS
 - THE COMPONENTS USED ABOVE FOR JAN LETTER TYPE DESIGNATIONS ARE:
CP MICA BUTTON; CC CERAMIC; CM MICA MOULDED; CN PAPER MOULDED

TM CC

Figure 45. Capacitor color codes.

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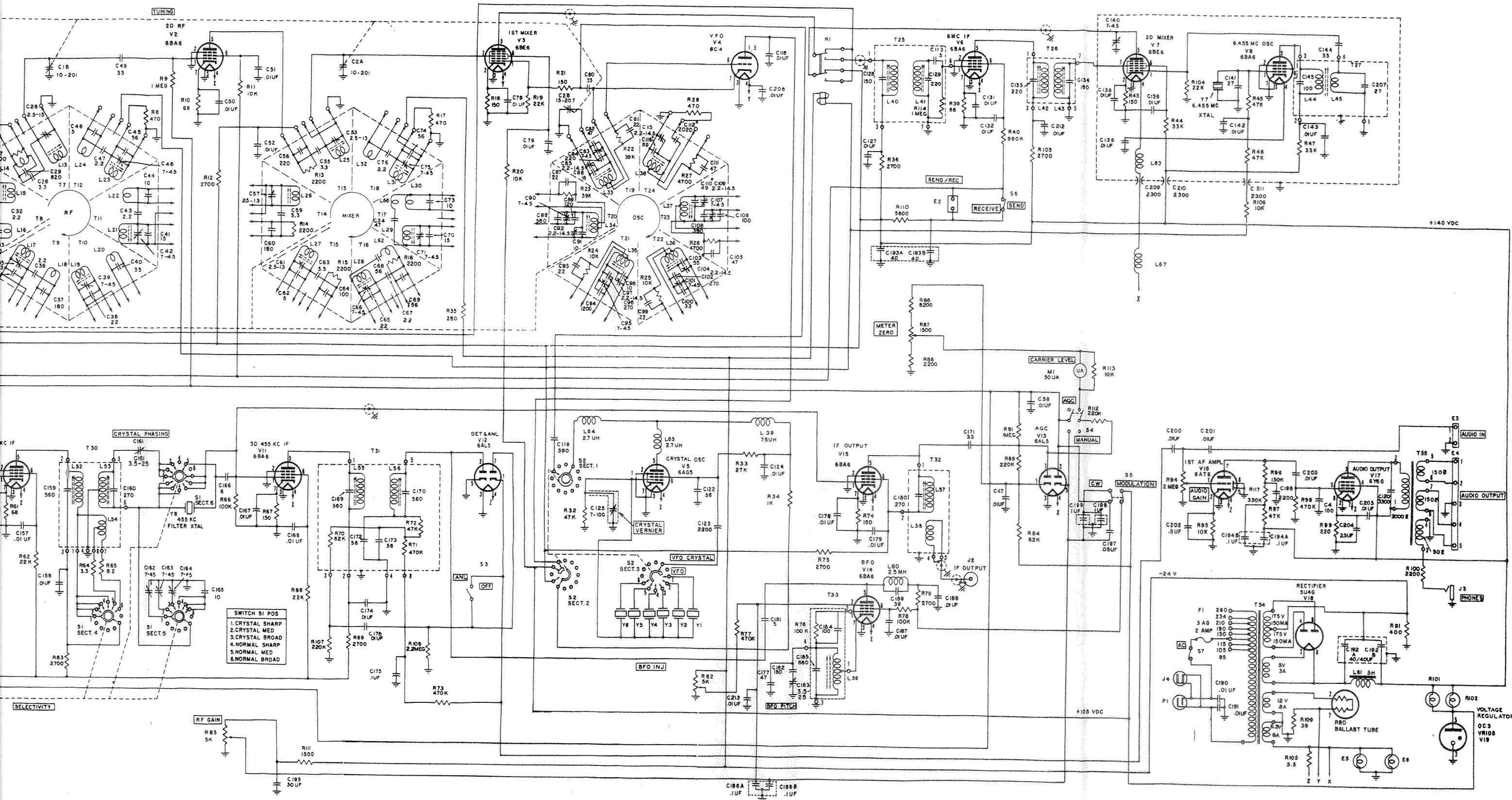
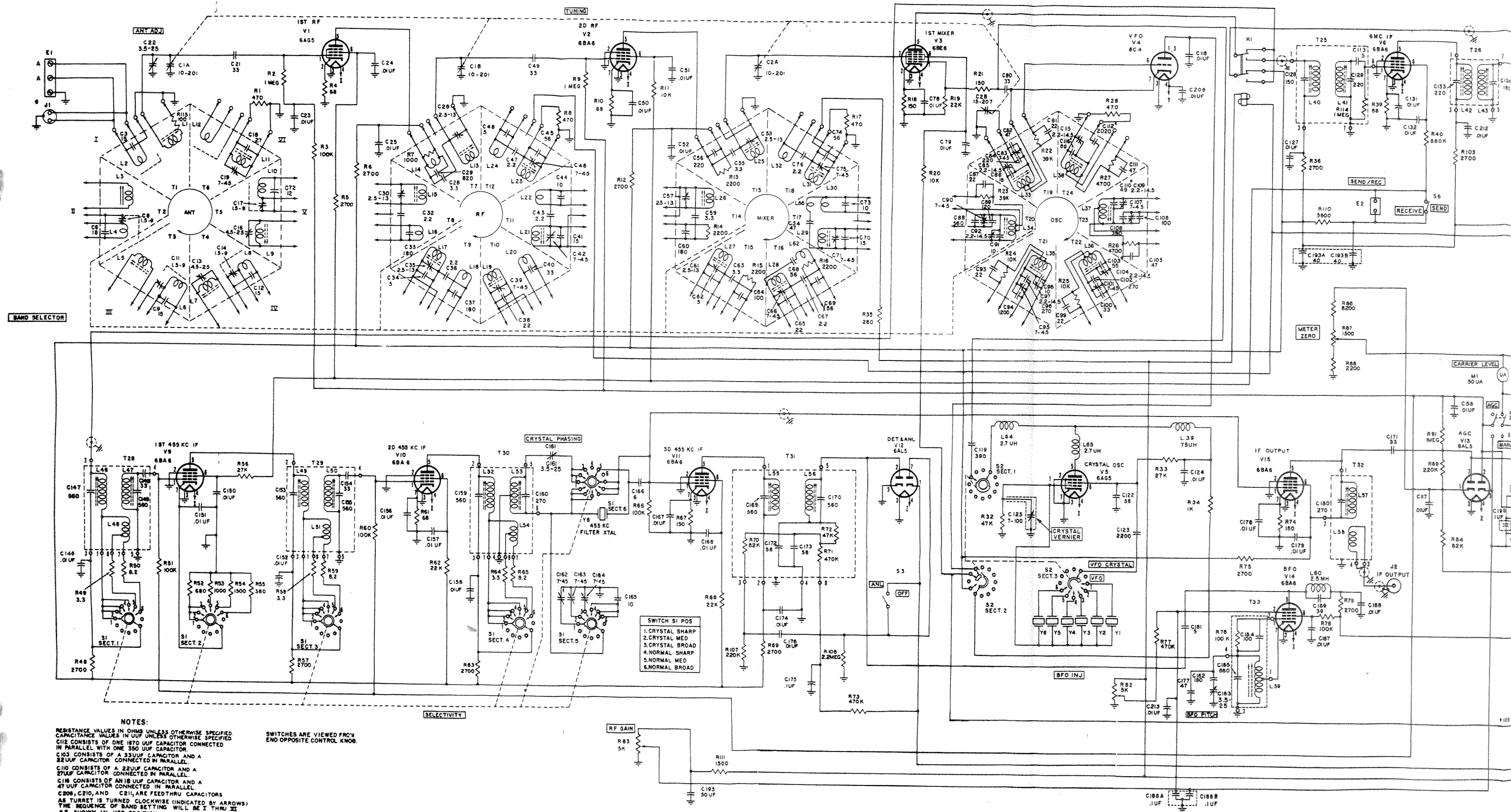


Figure 43. Radio Receiver R-274/FRR, schematic diagram.

TM 897-45



NOTES:
 RESISTANCE VALUES IN OHMS UNLESS OTHERWISE SPECIFIED
 CAPACITANCE VALUES IN UF UNLESS OTHERWISE SPECIFIED
 C112 CONSISTS OF ONE 1870 UF CAPACITOR CONNECTED
 IN PARALLEL WITH ONE 350 UF CAPACITOR
 C103 CONSISTS OF A 33UF CAPACITOR AND A
 22UF CAPACITOR CONNECTED IN PARALLEL.
 C110 CONSISTS OF A 22UF CAPACITOR AND A
 27UF CAPACITOR CONNECTED IN PARALLEL.
 C116 CONSISTS OF AN 18 UF CAPACITOR AND A
 47 UF CAPACITOR CONNECTED IN PARALLEL.
 C809, C810, AND C811 ARE FEEDTHRU CAPACITORS
 AS TURRET IS TURNED CLOCKWISE (INDICATED BY ARROWS)
 THE SEQUENCE OF BAND SETTING WILL BE 1 THRU 32
 22 SHOWN IN VFO POSITION

SWITCHES ARE VIEWED FROM
 END OPPOSITE CONTROL KNOB.

- SWITCH S1 POS**
1. CRYSTAL SHARP
 2. CRYSTAL MED
 3. CRYSTAL BROAD
 4. NORMAL SHARP
 5. NORMAL MED
 6. NORMAL BROAD

Figure 43. Radio Receiver R-274/FRR, schematic diagram.