T R O U B L E C H A R T

Trouble	Probable causes	Remedy
Receiver dead.	Power switch OFF.	Turn OFF-REC-SEND switch to REC position.
	Headset plug not inserted in PHONES jack.	Insert headset plug in PHONES jack.
	Defective Headset HS-30.	Replace headset.
	Antenna lead disconnected, loose, or shorted.	Check antenna connection.
	Antenna wire touching metallic material or wet foliage.	Check antenna installation and keep clear of objects. See paragraph 18.
	Defective or burned-out tube or tubes.	Replace tubes.
	Fuse burned out.	Replace fuse.
	VOLUME control turned off.	Turn VOLUME control to the right (clockwise).
	One or more tubes not seated properly in socket.	Push tubes firmly into their sockets.
Receiver weak.	VOLUME control set too low.	Turn VOLUME control to the right.
	Antenna lead disconnected, loose, or shorted.	Check antenna connection.
	Antenna wire touching metallic material or wet foliage.	Check antenna installation and keep clear of objects. See paragraph 18.
	Defective or burned-out tube or tubes.	Replace tubes.
	Power switch in SEND position.	Turn OFF-REC-SEND switch to REC position.
	Defective Headset HS-30.	Replace headset.
	Receiver out of alignment.	Align receiver. See paragraph 41.
	Excessive moisture in carrying case as a result of exposure.	Allow equipment to dry out in a well-ventilated place.

Trouble	Probable causes	Remedy
	Line voltage 110-220 switch in 110 position on 220-volt power line.	If power source in use is 220 volts, place switch in 220 position. See paragraphs 5 and 7a.
Transmitter dead.	Power switch in OFF or REC position.	Turn OFF-REC-SEND switch to SEND position.
	Key plug not inserted in KEY jack.	Insert key plug into KEY jack. See paragraphs 10 and 7b(2)(j).
	Fuse burned out.	Replace fuse.
	Defective or burned-out tube or tubes.	Replace tubes.
	One or more tubes not seated properly in socket.	Push tubes firmly into their sockets.
	Defective key or key plug and cord.	Replace.
	Defective crystal unit.	Replace.
	Incorrect transmitting coil in use.	Check with paragraph 20c.
	Broken antenna wire.	Replace.
	Antenna lead disconnected, loose, or broken.	Check antenna connection.
	Improper tuning of oscillator, amplifier, or antenna controls.	Check tuning with paragraph 22.
Transmitter weak.	Antenna wire touching metallic object or wet foliage.	Check antenna installation and keep clear of objects. See paragraph 18.
	Line voltage 110-220 switch in 110 position on 220-volt power line.	If power source in use is 220 volts, place switch in 220 position. See paragraphs 5 and 7a.
	Improper setting of ANT COUPLING control.	Readjust in accordance with paragraphs 22d and e.
	Defective tube or tubes.	Replace tubes.

43. VOLTAGE MEASUREMENTS. The following tube-socket layout diagrams show voltages obtained from each tube-socket pin to chassis, under the specified conditions, for the receiver, transmitter, and power supply portions of the transceiver unit.

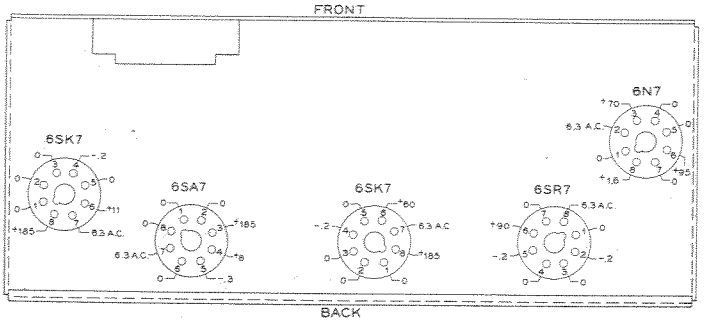

Figure 7. Radio Set AN/PRC-5, receiver chassis tube-socket layout.

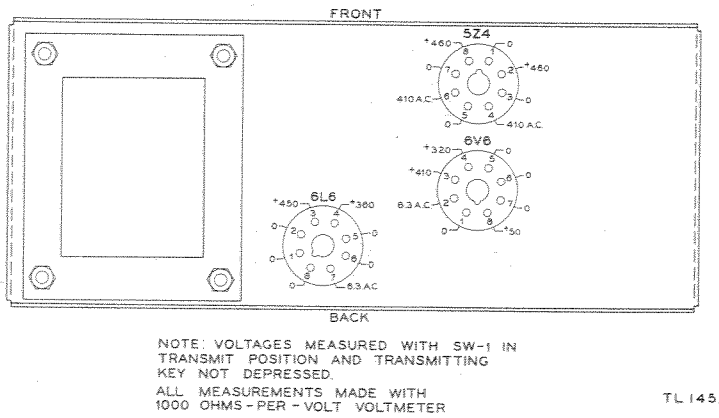

Figure 8. Radio Set AN/PRC-5, transmitter and power-supply chassis tube-socket layout.

44. POINT-TO-POINT RESISTANCE MEASUREMENTS. The following table gives average point-to-point resistance values measured from the chassis to the indicated terminals on the various vacuum-tube sockets. Make all measurements with the power cord disconnected and the various controls set as indicated in the third column of the chart.

TUBE	ELEMENT	SOCKET TERMINAL	VARIABLE CONTROL		RESISTANCE
			SYMBOL	SETTING	
V1	Grid	4	---	----	4.5 meg
	Cathode	5	---	----	0
	Screen	6	SW 1	REC.	180,000
	Suppressor	3	---	----	0
	Plate	8	SW 1	REC.	26,000
V2	Grid	8	---	----	4.5 meg
	Cathode	6	SW 3	Band 1	0.3 ohms
	Cathode	6	SW 3	Band 2	0.2 ohms
	Screen	4	SW 1	REC.	50,000
	Osc. Grid	5	---	----	100,000
	Plate	3	SW 1	REC.	28,000
V3	Grid	4	---	----	2.5 meg
	Cathode	5	---	----	0
	Screen	6	SW 1	REC.	115,000
	Suppressor	3	---	----	0
	Plate	8	SW 1	REC.	28,000
V4	Grid	2	---	----	100,000
	Cathode	3	---	----	0
	Diode	4	---	----	0
	Diode	5	---	----	550,000
	Plate	6	SW 4	ON	50,000
	Plate	6	SW 4	OFF	INF.
V5	Grid	4	---	----	1.0 meg
	Plate	3	SW 1	REC.	120,000
	Cathode	8	---	----	750
	Grid	5	---	----	250,000
	Plate	6	SW 1	REC.	60,000
V6	Grid	5	---	----	32,500
	Cathode	8	SW 5	OSC.	100,000
	Cathode	8	SW 5	AMP.	100,000
	Screen	4	SW 1	SEND	16,500
	Plate	3	SW 1	SEND	15,000
V7	Grid	5	---	----	42,000
	Cathode	8	SW 5	OSC.	100,000
	Cathode	8	SW 5	AMP.	100,000
	Screen	4	SW 1	SEND	18,000
	Plate	3	SW 1	SEND	16,000
V8	Plate	4	---	----	45 ohms
	Plate	6	---	----	50 ohms
	Cathode	8	SW 1	OFF	15,000
	Cathode	8	SW 1	REC.	35,000
	Cathode	8	SW 1	SEND	15,000

SECTION V

SUPPLEMENTARY DATA

45. RESISTOR AND CAPACITOR COLOR-CODE CHARTS. Several systems are in use for marking the values of resistance and capacitance. Some resistors and capacitors have their values stamped on, but in many cases colored bands and dots are used instead. The following charts provide a means for determining the values of resistors and capacitors from the color markings on them.

a. The Three-dot Color Code for Mica Capacitors. (1) This code is gradually being replaced by more involved codes. The basis of this code (fig. 9) is a series of three colored dots which indicate the capacitance in micromicrofarads. Two auxiliary colored dots indicating the voltage rating and the capacitance tolerance are sometimes added. Usually an arrow is molded or stamped on the case of the capacitor to indicate the sequence in which the dots are to be read. Dots 1 and 2 show the first two digits of the capacitance in micromicrofarads, while dot 3 indicates the decimal multiplier to be used. As an example, a 0.006-microfarad capacitor (6,000 micromicrofarads) is marked by the three dots in sequence, as follows:

blue (6), black (0), red (100).

(2) When the dot indicating tolerance is used, it is usually located above or below the third (decimal multiplier) dot. The color of the tolerance dot corresponds to tolerance between plus or minus 1 percent and plus or minus 20 percent. For example: a green tolerance dot is used on capacitors having a tolerance of plus or minus 5 percent (fig. 9).

(3) When the voltage dot is used, it is located above or below the first (first digit) dot. According to the code of figure 9, the various colors denote the d-c working voltage.

(4) Both of the auxiliary dots are omitted for capacitors having a tolerance

3-DOT COLOR CODE CHART
For Capacitors

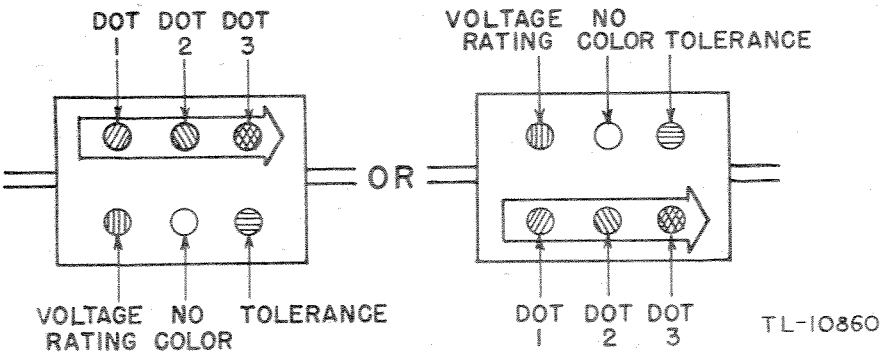

Figure 9. Molded-mica capacitors, three-dot color code.

COLOR	1st Dot	2nd Dot	3rd Dot	*Tolerance*	*Voltage Rating*
	1st Digit	*2nd Digit*	*Decimal Multiplier*		
Black	0	0	1	20%	
Brown	1	1	10	1%	100v.
Red	2	2	100	2%	200v.
Orange	3	3	1,000	3%	300v.
Yellow	4	4	10,000	4%	400v.
Green	5	5	100,000	5%	500v.
Blue	6	6	1,000,000	6%	600v.
Violet	7	7	10,000,000	7%	700v.
Gray	8	8	100,000,000	8%	800v.
White	9	9	1,000,000,000	9%	900v.
Gold	...	...	0.1	5%	1000v.
Silver	...	...	0.01	10%	2000v.
Body	...	...	.....	20%	*

*When no Color is indicated the Voltage Rating may be as low as 300 volts.

of plus or minus 20 percent, and a d-c working voltage rating which is the lowest used for that type and size of capacitor.

(5) When no color is indicated, the voltage rating may be as low as 300 volts.

b. The RMA Code for Mica Capacitors. The RMA (Radio Manufacturers Associ-

RMA STANDARD 6-DOT COLOR CODE CHART
For Capacitors (Molded Mica)

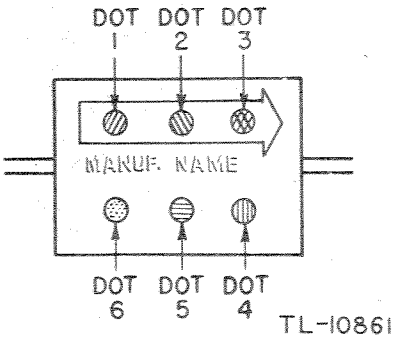

Figure 10. Molded-mica capacitors, RMA six-dot color code.

Color	1st Dot	2nd Dot	3rd Dot	4th Dot	5th Dot	6th Dot
	1st Digit	*2nd Digit*	*3rd Digit*	*Decimal Multiplier*	*Tolerance*	*Voltage*
Black	0	0	0	1	....	....
Brown	1	1	1	10	1%	100v.
Red	2	2	2	100	2%	200v.
Orange	3	3	3	1,000	3%	300v.
Yellow	4	4	4	10,000	4%	400v.
Green	5	5	5	100,000	5%	500v.
Blue	6	6	6	1,000,000	6%	600v.
Violet	7	7	7	10,000,000	7%	700v.
Gray	8	8	8	100,000,000	8%	800v.
White	9	9	9	1,000,000,000	9%	900v.
Gold	...	...	...	0.1	5%	1,000v.
Silver	...	...	...	0.01	10%	2,000v.
Body	...	...	...	....	20%	500v.

ation) code is illustrated in figure 10. This code uses six colored dots with an arrow to show the sequence. The first three dots give the first three digits of the capacitance in micromicrofarads, the fourth dot (directly below the third) gives the decimal multiplier, the fifth indicates the tolerance in capacitance, and the sixth indicates the d-c working voltage. For example: a capacitor of 0.006 microfarads (6,000 micromicrofarads) plus or minus 10 percent, 800 volts d-c working voltage, would be marked: blue (6), black (0), black (0), brown (multiplier 10), silver (plus or minus 10 percent), gray (800 volts), in that order.

c. The AWS Code for Mica Capacitors. (1) The AWS (American War Standard) code for molded-mica capacitors is shown in figure 11. Like the RMA code, it makes use of six colored dots, but with somewhat different significance. The first four dots give the capacitance in micromicrofarads as follows: first significant figure, second significant figure, third significant figure, and the decimal multiplier. It will be noted that this scheme makes provision for marking units with three significant figures. However, none of the capacitors standardized under the AWS code requires more than two significant digits to specify its capacitance. The first dot on all molded-mica capacitors, marked with the AWS code, is black, and the two necessary significant figures are given by the second and third dots. As a result the black first dot becomes an important feature or identification symbol for a molded-mica capacitor marked according to the AWS code. A few examples may serve to make this clear. A 120-micromicrofarad capacitor is marked as follows: black (0), brown (1), red (2), brown (10), indicating a molded-mica capacitor of 120 micromicrofarads. A 9,100-micromicrofarad capacitor will be marked black (0), white (9), brown (1), red (100), in-

dicating 9,100 micromicrofarads. It will be noted that in each instance the first dot is black.

AMERICAN WAR STANDARD 6-DOT COLOR CODE CHART
For Capacitors (Molded Mica)

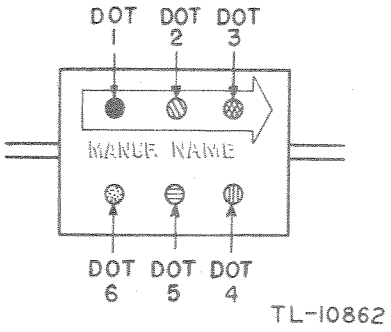

Figure 11. Molded-mica capacitors. AWS six-dot color code.

Color	1st Dot *1st Digit*	2nd Dot *2nd Digit*	3rd Dot *3rd Digit*	4th Dot *Decimal Multiplier*	5th Dot *Tolerance*	6th Dot *Characteristics*
Black	0	0	0	1	±20%	*A
Brown	1	1	1	10		B
Red	2	2	2	100	± 2%	C
Orange	3	3	3	1,000		D
Yellow	4	4	4	10,000		E
Green	5	5	5	100,000		F
Blue	6	6	6	1,000,000		G
Violet	7	7	7	10,000,000		
Gray	8	8	8	100,000,000		
White	9	9	9	1,000,000,000		
Gold	...	...	...	0.1	± 5%	
Silver	...	...	...	0.01	±10%	

*A—Ordinary Mica By-pass.
B—Same as A—Low Loss Case.
C—By-pass or Silver Mica Capacitor (±200 parts/Million/C)
D—Silver Mica Capacitor (±100 Parts/Million/C)
E—Silver Mica Capacitor (0 to +100 Parts/Million/C)
F—Silver Mica Capacitor (0 to +50 Parts/Million/C)
G—Silver Mica Capacitor (0 to —50 parts/Million/C)

(2) The fifth dot in the AWS color code indicates the capacitance tolerance in percent of rated capacitance. The sixth dot denotes characteristics of design. For example: a 0.006-microfarad (6,000 micromicrofarads) plus or minus 10 percent mica capacitor would be marked: black (0), blue (6), black (0), red (100), silver (plus or minus 10 percent), black (mica by-pass, with no temperature coefficient specified).

(3) It will be noted that this color code does not include the voltage rating. This is considered unnecessary since, with few exceptions, all capacitors marked with the AWS color code are rated at 500 d-c working volts. The exceptions, all of which are rated at 300 volts, are: AWS type CM35 capacitors with capacitances of 6,800, 7,500, and 8,200 micromicrofarads; AWS type CM40 capacitors with capacitances of 9,100 and 10,000 micromicrofarads.

d. The AWS Code for Molded-paper Capacitors. (1) the AWS color for molded-paper dielectric capacitors is shown in figure 12. Like the code for mica capacitors, referred to in subparagraph c above, it uses six colored dots, with an arrow to indicate the sequence. Units marked according to this system can readily be identified by the fact that both the first and fifth dots are always silver. The other dots are used as follows: the second dot gives the first digit of the capacitance in micromicrofarads; the third dot gives the second significant figure; the fourth dot indicates the decimal multiplier; and the sixth dot shows whether the unit has a maximum operating temperature of 167° or 185° F.

AMERICAN WAR STANDARD 6-DOT COLOR CODE CHART

FOR CAPACITORS (MOLDED-PAPER)

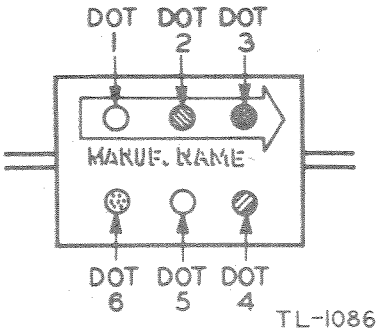

Figure 12. Molded-paper capacitors, AWS six-dot color code.

COLOR	1ST DOT	2D DOT	3D DOT	4TH DOT	5TH DOT	6TH DOT
		1ST DIGIT	2D DIGIT	DECIMAL MULTIPLIER		CHARACTERISTICS
BLACK	FIRST DOT SILVER TO INDICATE AWS PAPER CAPACITOR	0	0	1	FIFTH DOT SILVER TO INDICATE AWS PAPER CAPACITOR	*A
BROWN		1	1	10		B
RED		2	2	100		-
ORANGE		3	3	1,000		-
YELLOW		4	4	-		-
GREEN		5	5	-		-
BLUE		6	6	-		-
VIOLET		7	7	-		-
GRAY		8	8	-		-
WHITE		9	9	-		-
GOLD		-	-	-		-
SILVER		-	-	-		-

*A-MAXIMUM OPERATING TEMPERATURE IS 185° F.
B-MAXIMUM OPERATING TEMPERATURE IS 167° F.

(2) No indication of the working voltage is given by this color code. However, all AWS molded-paper capacitors have d-c working voltages between 300 and 800 volts. In general the lower voltage rating applies to units with high-capacitance ratings; the higher voltage rating applies to units with low-capacitance ratings as shown in figure 12.

e. Tubular Ceramic-dielectric Capacitors. Tubular ceramic-dielectric capacitors are sometimes marked according to the RMA color code shown in figure 13. The negative temperature coefficient is indicated by the color of the band or tips at one end of the unit; the capacitance in micromicrofarads is shown by the first three dots; the capacitance tolerance, either in percent or tenths of a micromicrofarad, depending upon the size of the unit, is indicated by the fourth and last dot. For example, a 30-micromicrofarad, plus or minus 5 percent capacitor with a negative temperature coefficient of 80 parts per million per degree centigrade would be marked as follows: tip, red (-80); first dot, orange (3); second dot, black (0); third dot, black (1); fourth dot, green (plus or minus 5 percent). The abbreviation neg. (negative) in figure 13 indicates that the capacitance varies inversely with temperature. The temperature coefficient is expressed in micromicrofarads per micromicrofarad per degree centigrade. Some capacitors are marked with a numeral instead of a color code; for example, N-030 represents 0.00003 neg. Tolerances for capacitors of 10 micromicrofarads or less are expressed in tenths of a micromicrofarad instead of percentages.

COLOR CODE CHART

For Capacitors (Tubular Ceramic)

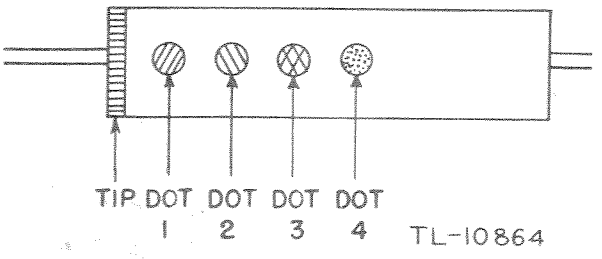

Figure 13. Tubular ceramic capacitors, RMA color code.

Color	Tip	1st Dot	2nd Dot	3rd Dot	4th Dot
	Temperature Coefficient	*1st Digit*	*2nd Digit*	*Decimal Multiplier*	*Tolerance*
Black	0	0	0	1	
Brown	.00003 Neg.	1	1	10	1%
Red	.00008 "	2	2	100	2%
Orange	.00015 "	3	3	1,000	3%
Yellow	.00022 "	4	4	10,000	4%
Green	.00033 "	5	5	100,000	5%
Blue	.00047 "	6	6	1,000,000	6%
Violet	.00075 "	7	7	10,000,000	7%
Gray		8	8	0.1	
White		9	9	0.01	10%

f. Fixed Resistors. (1) Small fixed resistors, both composition type and wire-wound, are frequently marked with colored bands and dots to indicate the resistance and tolerance. Two color codes are widely used, the RMA and the AWS. The two codes are not identical in all particulars, but they are similar in many respects. One chart, applicable to both, is shown in figure

14. It will be seen that in all cases the various combinations of body color, bands, and dots indicate the resistance to two significant figures (the first two digits), the decimal multiplier, and the percent tolerance in resistance.

(2) As illustrated by figure 14, two methods are used for indicating the resistance and tolerance:

Method 1. This method makes use of four colored bands, starting at one end of the unit, to show resistance and tolerance (A of fig. 14). The bands, reading from left to right, indicate: first significant figure, second significant figure, decimal multiplier, and percent tolerance. (The significance of the body color under this method will be explained later.)

Method 2. Several variations of this method are in use (B1, B2, and B3 of fig. 14). With all of these variations, however, the interpretation of the code is practically the same: the left end gives tolerance; the body, the first significant figure; the right end, the second significant figure; and the central dot or band, the decimal multiplier.

To illustrate, consider a 5,600-ohm, plus or minus 10-percent fixed resistor. It would be marked:

Method 1. First band, green (5); second band, blue (6); third band, red (100); fourth band, silver (plus or minus 10 percent).

Method 2. Left end, silver (plus or minus 10 percent); body, green (5); right end, blue (6); central band or dot, red (100).

RMA STANDARD COLOR CODE CHART

For Resistors

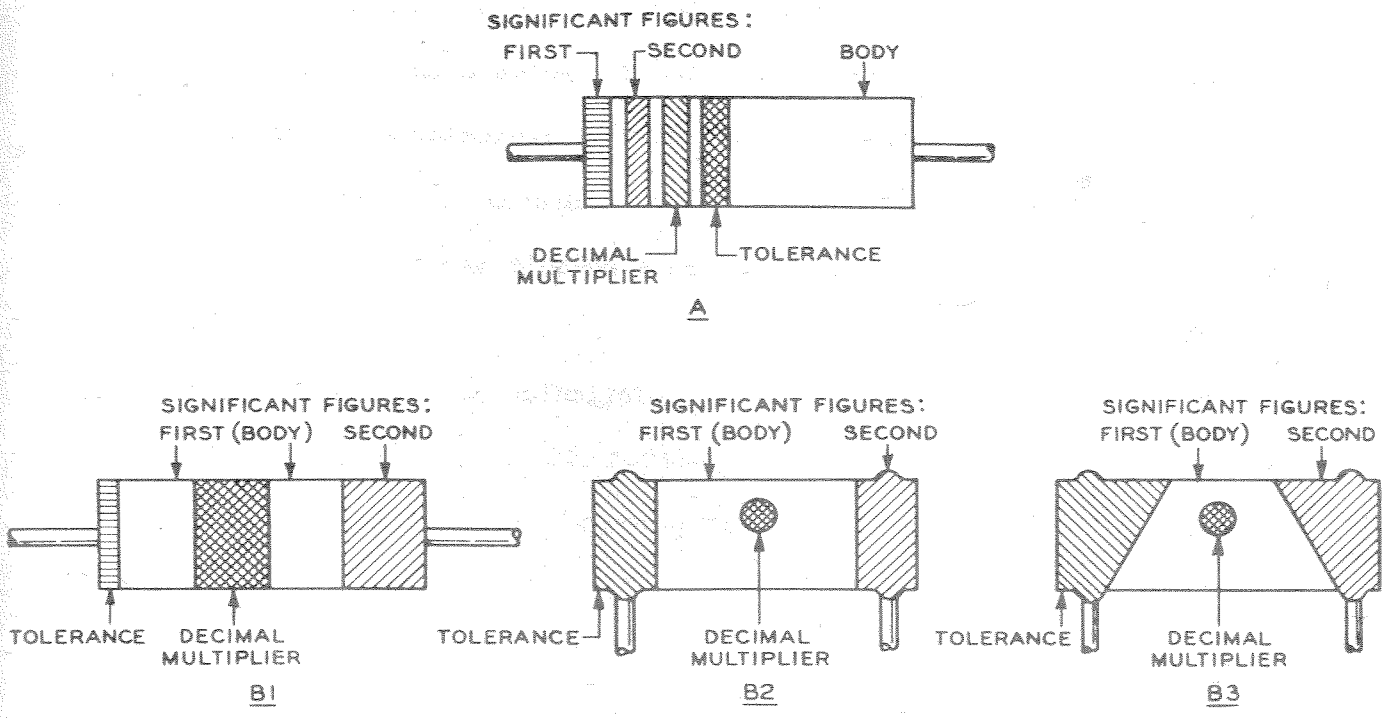

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Figure 14. Fixed resistors, RMA and AWS color codes.

COLOR	1st Band	2nd Band	3rd Band	4th Band
	1st Digit	*2nd Digit*	*Decimal Multiplier*	*Tolerance*
Black	0	0	1	
Brown	1	1	10	
Red	2	2	100	
Orange	3	3	1,000	
Yellow	4	4	10,000	
Green	5	5	100,000	
Blue	6	6	1,000,000	
Violet	7	7	10,000,000	
Gray	8	8	100,000,000	
White	9	9	1,000,000,000	
Gold	...	...	.....	± 5%
Silver	...	...	.....	±10%
No Color	...	...	.....	±20%

In method 1, where the body color plays no part in indicating resistance or tolerance, it may be used to indicate the type of resistor unit. Under the RMA code, a black body is frequently used to indicate an uninsulated composition unit; a tan, olive, or white body usually indicates an insulated wire-wound unit. The AWS code requires that an insulated unit using method 1 have a black body; the body of an uninsulated unit may be any color, although a natural tan is preferred.

(3) When there is doubt as to whether a particular resistor is composition or wire-wound, it is well to remember that any resistor of 100 ohms or less is most likely wire-wound, and is probably wound inductively.

46. MAINTENANCE PARTS LIST FOR RADIO SET AN/PRC-5

NOTE: Order maintenance parts by stock number, name, and description. Only maintenance parts listed can be requisitioned.

Ref symbol	Signal Corps stock No.	Name of part and description	Quan per equip	Running spares	Orgn stock	3d ech	4th ech	5th ech	Depot stock
C1	3D9101-31	CAPACITOR: ceramic; 10-mmf ± 10%; 500 volts dc (working); Durez-coated.	1						*
C2	3D9030V-7.1	CAPACITOR: variable; trimmer; 3- to 30-mmf.	3						*
C3	3D9100-15A	CAPACITOR: ceramic; 100-mmf ± 10%; 500 volts dc (working); Durez-coated.	5						*
C4, C11, and C15 C5, C12, and C14	3D9150V-21	CAPACITOR ASSEMBLY: variable; 3-gang 9- to 150-mmf; and 3-gang trimmer 5-mmf, complete with gear and worm drive.	1						*
C6	3DA20-13.1	CAPACITOR: paper; 0.02-mf; tubular; 600 volts dc (working).	2						*
C7	3DA50-1	CAPACITOR: paper; 0.05-mf; tubular; 600 volts dc (working).	5						*
C8	3D9100-15A	Same as C3.							*

* Indicates stock available.

46. MAINTENANCE PARTS LIST FOR RADIO SET AN/PRC-5. (contd).

NOTE: Order maintenance parts by stock number, name, and description. Only maintenance parts listed can be requisitioned.

Ref symbol	Signal Corps stock No.	Name of part and description	Quan per equip	Running spares	Orgn stock	3d ech	4th ech	5th ech	Depot stock
C9	3D9030V-7.1	Same as C2.							*
C10	3D9100-15A	Same as C3.							*
C11		Part of C4 assembly.							*
C12		Part of C4 assembly.							*
C13	3DA50-1	Same as C7.							*
C14		Part of C4 assembly.							*
C15		Part of C4 assembly.							*
C16, C17	3DB20-29	CAPACITOR: electrolytic; 2-section; 20-mf; 450 volts dc (working).	1						*
C18	3D9020-5.1	CAPACITOR: ceramic; 20-mmf ± 10%; 500 volts dc (working); Durez-coated.	1						*
C19	3D9030V-7.1	Same as C2.							*
C20	3DA2-103	CAPACITOR: mica; 0.002-mf; 600 volts dc (working).	2						*

*Indicates stock available.

46. MAINTENANCE PARTS LIST FOR RADIO SET AN/PRC-5 (contd).

NOTE: Order maintenance parts by stock number, name, and description. Only maintenance parts listed can be requisitioned.

Ref symbol	Signal Corps stock No.	Name of part and description	Quan per equip	Running spares	Orgn stock	3d ech	4th ech	5th ech	Depot stock
C21	3DB10-57	CAPACITOR: electrolytic; 2-section; 10-mf; 450 volts dc (working); (sections connected in parallel).	1						*
C23	3DA50-1	Same as C7.							*
C24	3D9050-49	CAPACITOR: ceramic; 50-mmf ± 10%; 500 volts dc (working); Durez-coated.	3						*
C25	3D9050-49	Same as C24.							*
C26	3DA50-1	Same as C7.							*
C27	3D9500-89	CAPACITOR: ceramic; 500-mmf ± 10%; 500 volts dc (working); Durez-coated.	2						*
C28	3DA50-1	Same as C7.							*
C29	3D9250-51	CAPACITOR: ceramic; 250-mmf ± 10%; 500 volts dc (working); Durez-coated.	1						*
C30	3DB100-10	CAPACITOR: electrolytic; 100-mf; 6 volts dc (working).	1						*

* Indicates stock available.

46. MAINTENANCE PARTS LIST FOR RADIO SET AN/PRC-5 (contd).

NOTE: Order maintenance parts by stock number, name, and description. Only maintenance parts listed can be requisitioned.

Ref symbol	Signal Corps stock No.	Name of part and description	Quan per equip	Running spares	Orgn stock	3d ech	4th ech	5th ech	Depot stock
C31	3DKA-51	CAPACITOR: paper; 0.003-mf ± 20%; 600 volts dc (working).	1						*
C32	3D9250-46	CAPACITOR: ceramic; 250-mmf ± 20%; 500 volts dc (working); Durez-coated.	1						*
C33	3DA20-13.1	Same as C6.							*
C34	3DA100-16	CAPACITOR: paper; 0.1 mfd tubular; 400 volts dc (working).	1						*
C35	3DA287.1	CAPACITOR: paper; 0.002-mf; tubular; 600 volts dc (working).	1						*
C36	3DA5-38	CAPACITOR: mica; 0.005-mf; 600 volts dc (working).	7						*
C37	3DA2-103	Same as C20							*
C39	3D9500-89	Same as C27.							*
C40	3D9140V-3	CAPACITOR: variable; 140-mmf; 2000 volt.	3						*
C41	3D9140V-3	Same as C40.							*

*Indicates stock available.

46. MAINTENANCE PARTS LIST FOR RADIO SET AN/PRC-5 (contd).

NOTE: Order maintenance parts by stock number, name, and description. Only maintenance parts listed can be requisitioned.

Ref symbol	Signal Corps stock No.	Name of part and description	Quan per equip	Running spares	Orgn stock	3d ech	4th ech	5th ech	Depot stock
C42	3DA5-38	Same as C36.							*
C43	3DA5-38	Same as C36.							*
C44	3DA5-38	Same as C36.							*
C45	3D9100-15A	Same as C3.							*
C46	3DA5-38	Same as C36.							*
C47	3D9140V-3	Same as C40.							*
C48	3D9100-15A	Same as C3.							*
C49	3DA5-38	Same as C36.							*
C50	3DA5-38	Same as C36.							*
C51	3D9050-49	Same as C24.							*
ANT	3Z737-17	BINDING POST: bakelite head; (antenna).	1						*
GROUND	3Z737-17	BINDING POST: bakelite head; (ground).	1						*

* Indicates stock available.

46. MAINTENANCE PARTS LIST FOR RADIO SET AN/PRC-5 (contd).

NOTE: Order maintenance parts by stock number, name, and description. Only maintenance parts listed can be requisitioned.

Ref symbol	Signal Corps stock No.	Name of part and description	Quan per equip	Running spares	Orgn stock	3d ech	4th ech	5th ech	Depot stock
F	3Z2602.1	FUSE: 2-amp; 250 volts; (Littelfuse type No. 8AG).	1	2					*
F	3Z3275-8	FUSE EXTRACTOR POST: bakelite; brass; tinned terminals.	1						*
J1	2Z5534	JACK JK-34: 2-conductor; accommodates Plug PL-55.	2						*
J2	2Z5534	Same as J1.							*
L1	3C302V	COIL: (antenna); for receiver band 2.	1						*
L2	3C302V-1	COIL: (antenna); for receiver band 1.	1						*
L3	3C326-100	COIL: r-f choke; National type R-100.	3						*
L4	3C1084Z4-1	COIL: r-f amplifier; for receiver band 2.	1						*
L5	3C1084Z4	COIL: r-f amplifier; for receiver band 1.	1						*

* Indicates stock available.

46. MAINTENANCE PARTS LIST FOR RADIO SET AN/PRC-5 (contd).

NOTE: Order maintenance parts by stock number, name and description. Only maintenance parts listed can be requisitioned.

Ref symbol	Signal Corps stock No.	Name of part and description	Quan per equip	Running spares	Orgn stock	3d ech	4th ech	5th ech	Depot stock
L6	3C1081-20D	COIL: oscillator; for receiver band 2.	1						*
L7	3C1081-20E	COIL: oscillator; for receiver band 1.	1						*
L8	2Z9641.67	TRANSFORMER ASSEMBLY: 1st i-f amplifier; in shielded can.	1						*
L9	2Z9641.68	TRANSFORMER ASSEMBLY: 2d i-f amplifier; in shielded can.	1						*
L10	2Z9644.5	COIL ASSEMBLY: (beat-frequency oscillator); in shielded can.	1						*
L11	3C326-100	Same as L3.							*
L12,L14	3C1081-20B	COIL ASSEMBLY: band C, for transmitter oscillator or power amplifier.	1						*
L12,L14	3C1081-20C	COIL ASSEMBLY: band D, for transmitter oscillator or power amplifier.	2						*

* Indicates stock available.

46. MAINTENANCE PARTS LIST FOR RADIO SET AN/PRC-5 (contd).

NOTE: Order maintenance parts by stock number, name, and description. Only maintenance parts listed can be requisitioned.

Ref symbol	Signal Corps stock No.	Name of part and description	Quan per equip	Running spares	Orgn stock	3d ech	4th ech	5th ech	Depot stock
L13	3C326-100	Same as L3.							*
L14	3C1081-20A	COIL ASSEMBLY: Band B, for transmitter power amplifier.	1						*
L12,L14	2Z8675.55	SOCKET ASSEMBLY: ceramic; plug-in; complete with stand-off insulators.	2						*
L16	3C342-11	COIL: choke; filter for power supply.	1						*
M	3F915-30	AMMETER: 0-150 ma dc; 2-inch diam.	1						*
P1	2Z5985.4	LIGHT ASSEMBLY: pilot; green jewel; miniature bayonet socket.	1						*
P1	2Z5891-4	JEWEL HOLDER: green.	1						*
P2	2Z5985.4	LIGHT ASSEMBLY: pilot; white jewel; miniature bayonet socket.							*
P2	2Z5891-4	JEWEL HOLDER: white.	1						*

* Indicates stock available.

46. MAINTENANCE PARTS LIST FOR RADIO SET AN/PRC-5 (contd).

NOTE: Order maintenance parts by stock number, name and description. Only maintenance parts listed can be requisitioned.

Ref symbol	Signal Corps stock No.	Name of part and description	Quan per equip	Running spares	Orgn stock	3d ech	4th ech	5th ech	Depot stock
R1	3Z6802-17	RESISTOR: carbon; ½ watt; 2-meg ± 20%; AWS type RC21BE205M.	3						*
R2	3Z6750-47	RESISTOR: carbon; ½ watt; 500,000-ohm ± 10%; AWS type RC21BE504J.	1						*
R3	3Z6725-10	RESISTOR: carbon; ½ watt; 250,000-ohm ± 10%; AWS type RC21BE244J.	2						*
R4	3Z6802-17	Same as R1.							*
R5	3Z6625-53	RESISTOR: carbon; 2 watt; 25,000-ohm ± 10%; AWS type RC41BE243J.	1						*
R6	3Z6700-61	RESISTOR: carbon; ½ watt; 100,000-ohm ± 10%; AWS type RC21BE104K.	4						*
R7	3Z6680-2.1	RESISTOR: carbon; 1 watt; 80,000-ohm ± 10%; AWS type RC31BE823J.	1						*

* Indicates stock available.

46. MAINTENANCE PARTS LIST FOR RADIO SET AN/PRC-5 (contd).

NOTE: Order maintenance parts by stock number, name, and description. Only maintenance parts listed can be requisitioned.

Ref symbol	Signal Corps stock No.	Name of part and description	Quan per equip	Running spares	Orgn stock	3d ech	4th ech	5th ech	Depot stock
R8	3Z6650-78	RESISTOR: carbon; $\frac{1}{2}$ watt; 50,000-ohm $\pm$ 20%; AWS type RC21BE473K.	1						*
R9	3Z6700-61	Same as R6.							*
R10	3Z6625-84	RESISTOR: carbon; $\frac{1}{2}$ watt; 25,000-ohm $\pm$ 10%; AWS type RC21BE243J.	2						*
R11	3Z6640-14	RESISTOR: carbon; 1 watt; 40,000-ohm $\pm$ 10%; AWS type RC31BE393J.	1						*
R12	3Z6725-10	Same as R3.							*
R13	3Z6075-8	RESISTOR: carbon; $\frac{1}{2}$ watt; 750-ohm $\pm$ 10%.	1						*
R14	3Z6801-54	RESISTOR: carbon; $\frac{1}{2}$ watt; 1-meg $\pm$ 20%; AWS type RC21BE105M.	1						*
R15	3Z6700-61	Same as R6.							*
R16	2Z7272-1	POTENTIOMETER: 500,000-ohm; (volume control).	1						*
R17	3Z6802-17	Same as R1.							*

46. MAINTENANCE PARTS LIST FOR RADIO SET AN/PRC-5 (contd).

NOTE: Order maintenance parts by stock number, name, and description. Only maintenance parts listed can be requisitioned.

Ref symbol	Signal Corps stock No.	Name of part and description	Quan per equip	Running spares	Orgn stock	3d ech	4th ech	5th ech	Depot stock
R18	3Z6610-108	RESISTOR: vitreous enamel; 10 watt; 10,000-ohm.	1						*
R19	3Z6630-67	RESISTOR: vitreous enamel; 10 watt; 30,000-ohm ± 10%.	1						*
R20	3Z6720-6	RESISTOR: carbon; ½ watt; 200,000-ohm ± 10%.	2						*
R21	3Z6640-6	RESISTOR: vitreous enamel; 5 watt; 40,000-ohm ± 10%.	2						*
R22	3Z6560-6	RESISTOR: wire-wound; 10 watt; 6,000-ohm ± 10%.	1						*
R23	3Z6700-61	Same as R6.							*
R24	3Z6040-53	RESISTOR: vitreous enamel; 5 watt; 400-ohm ± 10%.	1						*
R25	3Z6200-97	RESISTOR: carbon; 2 watt 2,000-ohm ± 20%; AWS type RC41BE182K.	1						*
R26	3Z6625-84	Same as R10.							*

* Indicates stock available.

46. MAINTENANCE PARTS LIST FOR RADIO SET AN/PRC-5. (contd).

NOTE: Order maintenance parts by stock number, name, and description. Only maintenance parts listed can be requisitioned.

Ref symbol	Signal Corps stock No.	Name of part and description	Quan per equip	Running spares	Orgn stock	3d ech	4th ech	5th ech	Depot stock
R27	3Z6570-19	RESISTOR: carbon; ½ watt; 7,000-ohm ± 10%; AWS type RC21BE682J.	1						*
R28	3Z6640-6	Same as R21.							*
R29	3Z6610-16	RESISTOR: carbon; 2 watt; 10,000-ohm ± 10%; AWS type RC41BE103K.	1						*
R30	3Z6040-1	RESISTOR: carbon; 1 watt; 400-ohm ± 10%; AWS type RC31BE391J.	1						*
R31	3Z6005-34	RESISTOR: wire-wound; ½ watt; 50-ohm ± 10%.	1						*
R32	3Z6640-35	RESISTOR: carbon; ½ watt; 40,000-ohm ± 10%; AWS type RC21BE393J.	1						*
R33	3Z6250-50	RESISTOR: wire-wound; 10 watt; 2,500-ohm ± 10%.	1						*
R34	3Z6720-6	Same as R20.							*

* Indicates stock available.

46. MAINTENANCE PARTS LIST FOR RADIO SET AN/PRC-5 (contd).

NOTE: Order maintenance parts by stock number, name, and description. Only maintenance parts listed can be requisitioned.

Ref symbol	Signal Corps stock No.	Name of part and description	Quan per equip	Running spares	Orgn stock	3d ech	4th ech	5th ech	Depot stock
SW1	3Z9825-58.23	SWITCH: ceramic; 4-circuit; 3-position; (off-rec-send).	1						*
SW2	3Z9857.27	SWITCH: toggle; double-pole, double-throw; 125 volts.	1						*
SW3	3Z9827.33	SWITCH: band.	1						*
SW4	3Z9835-1	SWITCH: snap; single-pole, single-throw; (BFO ON-OFF).	1						*
SW5	3Z9835-1.1	SWITCH: snap; single-pole, double-throw; (OSC-AMP).	1						*
TR	2Z9608-15	TRANSFORMER: power; 110-220 volt primary.	1						*
	3E7186-8	CORD: a-c line; 6 feet; 2-conductor; No. 18 wire; color coded with rubber jacket.	1						*
	3E1605-6.5	CORD CD-605: 2-conductor; 6½ feet; with Transformer C-410 and Plug PL-55.	1						*

* Indicates stock available.

46. MAINTENANCE PARTS LIST FOR RADIO SET AN/PRC-5 (contd).

NOTE: Order maintenance parts by stock number, name, and description. Only maintenance parts listed can be requisitioned.

Ref symbol	Signal Corps stock No.	Name of part and description	Quan per equip	Running spares	Orgn stock	3d ech	4th ech	5th ech	Depot stock
	3E1201A	CORD CD-201-A: 2-conductor; 5 feet; Plug PL-55 on one end and terminals on other end for Key J-47.	1						*
	2Z3543.8	CRYSTAL HOLDER FT-243: set of 1 each for all authorized frequencies.	6						*
	2B830( )	HEADSET HS-30-( ): component. HEADSET HS-30-( ): repair parts.	1						*
	3Z3447.1	KEY J-47: telegraph; complete with Cord CD-201-A.	1						*
	2ZK5748.15	KNOB: receiver.	1						*
	2Z5848.19	KNOB WITH POINTER: bakelite.	5						*
	6Z7565.3	PLUG: 2-connector; parallel bladed; rubber; (power cord).	1						*
	2Z7155	PLUG PL-55: 2-conductor.	3						*

* Indicates stock available.

46. MAINTENANCE PARTS LIST FOR RADIO SET AN/PRC-5 (contd).

NOTE: Order maintenance parts by stock number, name, and description. Only maintenance parts listed can be requisitioned.

Ref symbol	Signal Corps stock No.	Name of part and description	Quan per equip	Running spares	Orgn stock	3d ech	4th ech	5th ech	Depot stock
	2ZK8674.17	SOCKET: tube; octal; ceramic.	3						*
	2Z8650.1	SOCKET: tube; octal; bakelite; with ring containing 3 grounding lugs.	5						*
	2ZK8650.6	SOCKET: crystal holder; molded phenolic.	1						*
	2Z8675.55	SOCKET ASSEMBLY: plug-in; ceramic; complete with stand-off insulators; National type XR-16.	2						*
	2Z5952	LAMP: 6-8 volts; 0.15 amp; bayonet base; GE type 47.	1	2					*
	2Z5879-2	LAMP: 2 volts; 0.06 amp; bayonet base; GE type 48.	1	2					*
	2J5Z4	TUBE JAN 5Z4: (VT-74).	1	1					*
	2J6L6	TUBE JAN 6L6: (VT-115).	1	1					*
	2J6N7	TUBE JAN 6N7: (VT-96).	1	1					*

* Indicates stock available.

46. MAINTENANCE PARTS LIST FOR RADIO SET AN/PRC-5 (contd).

NOTE: Order maintenance parts by stock number, name, and description. Only maintenance parts listed can be requisitioned.

Ref symbol	Signal Corps stock No.	Name of part and description	Quan per equip	Running spares	Orgn stock	3d ech	4th ech	5th ech	Depot stock
	2J6SA7	TUBE JAN 6SA7: (VT-150).	1	1					*
	2J6SK7	TUBE JAN 6SK7: (VT-117).	2	2					*
	2J6SR7	TUBE JAN 6SR7: (VT-223).	1	1					*
	2J6V6	TUBE JAN 6V6: (VT-107).	1	1					*

* Indicates stock available.