



Figure 7-7. Radio Receiver Model S-36A, schematic wiring diagram.

MODEL S-36A PARTS LIST

Ref. Symbol	Name of Part and Description	Function	Mfr Code and Type No.	Hallicrafter's Part No.
CAPACITORS				
C ₁	Capacitor, variable: air dielectric; 3 section; 9 plates with double spacing between plates; min. cap, 6 mmfd., max. cap. 54.7 mmfd.; plates are aluminum; shaft silver plated brass ½" long x 0.375" dia., with x 2B insulation on stators; front rotor section grounded to frame, other two sections insulated from frame; spade lug mtg.; solder lug terminals.	Secondary tuning of transformers T ₁ to T ₉ inclusive	OM special	48C147
C ₂	Capacitor, variable: air dielectric; single section; 7 plates; min. cap. 3 mmfd., max. cap. 25 mmfd.; aluminum plates; ceramic insulation; brass shaft ¾" long x ¼" dia., mtg. base ¼" thick x 1-7/32" dia., mtg. centers 21/32"; total depth of unit 7/8"; solder lug terminals	ANTENNA tuning	BC type 22-7	48A039
C ₃	Capacitor, fixed: mica dielectric; 330 mmfd. ± 10%; 500 V. D-C working; case 51/64" lg x 15/32" wd x 7/32" thk; same as C ₅ , C ₉ , C ₁₀ , C ₄₅ , C ₄₆ , C ₄₇ , C ₅₅ .	Secondary padder on transformer T ₅	ASA	CM20A331K
C ₄	Capacitor, fixed: mica dielectric; 2200 mmfd. ± 10%; 500 V. D-C working; case 53/64" long x 53/64" wide x 9/32" thick; same as C ₆ , C ₅₂ , C ₆₁ .	Cathode by-pass for tube V ₁	ASA	CM30A222K
C ₅	Same as C ₃	Screen by-pass for tube V ₁	-	-
C ₆	Same as C ₄	Plate return for tube V ₁	-	-
C ₇	Capacitor, fixed: ceramic dielectric; 10 mmfd. ± 10%; 500 V. D-C working; temp. coeff. -0.00055 mmfd/mmfd/deg. Cent.; case 0.625" long x 0.225" dia.	Coupling between tubes V ₁ and V ₂	CRL type 811-077	47A006

C ₈	Capacitor, fixed: mica dielectric; 8200 mmfd. $\pm 10\%$; 500 V. D-C working; case 1-1/32" long x 41/64" wide x 11/32" thick; same as C ₁₃ , C ₁₄ , C ₁₅ , C ₁₇ , C ₁₈ , C ₁₉ , C ₂₁ , C ₂₂ , C ₂₃ , C ₃₀ , C ₃₃ , C ₃₆ , C ₃₇ , C ₆₂ , C ₇₈ .	A-V-C filter	ASA	CM40A822K
C ₉	Same as C ₃	Coupling between oscillator tube V ₁₅ and mixer tube V ₂	-	-
C ₁₀	Same as C ₃	Screen by-pass for tube V ₂	-	-
C ₁₁	Capacitor, variable: air dielectric; small variable capacity formed between a 6-32 metal screw and a CRS plate 5/8" wd x 13/16" lg, rolled to 3/16" ID, at one end, with a 7/32" dia mtg hole 3/16" center from other end x 7/32" center from top side; cadmium plated plate.	Trimmer adjustment for osc. tuning capacitor C _{1C}	H 48A140	48A140
C ₁₂	Capacitor, fixed: paper dielectric; 1000 mmfd. + 100-20%; 600 V. D-C working; case 3/4" lg x 1/2" wd x 7/32" thk.	A-V-C filter for tube V ₃	CE	47A121
C ₁₃	Same as C ₈	Cathode by-pass for tube V ₃	-	-
C ₁₄	Same as C ₈	Screen by-pass for tube V ₃	-	-
C ₁₅	Same as C ₈	Plate return for tube V ₃	-	-
C ₁₆	Same as C ₁₂	A-V-C filter for tube V ₄	-	-
C ₁₇	Same as C ₈	Cathode by-pass for tube V ₄	-	-
C ₁₈	Same as C ₈	Screen grid by-pass for tube V ₄	-	-
C ₁₉	Same as C ₈	Plate return for tube V ₄	-	-
C ₂₀	Capacitor, fixed: mica dielectric; 47 mmfd. $\pm 10\%$; 500 V. D-C working; case 51/64" long x 15/32" wide x 7/32" thick; same as C ₃₁ .	Coupling between transformer T ₁₂ and Tube V ₅	ASA	CM20A470K
C ₂₁	Same as C ₈	Cathode by-pass for tube V ₅	-	-

MODEL S-36A PARTS LIST

Ref. Symbol	Name of Part and Description	Function	Mfr Code and Type No.	Hallicrafter's Part No.
C ₂₂	Same as C ₈	Screen grid by-pass for tube V ₅	-	-
C ₂₃	Same as C ₈	Plate return for tube V ₅	-	-
C ₂₄	Capacitor, fixed: mica dielectric; 56 mmfd. $\pm 10\%$; 500 V. D-C working; case 51/64" long x 15/32" wide x 7/32"; thk; same as C ₂₆	Diode return for tube V ₆	ASA	CM20A560K
C ₂₅	Capacitor, fixed: paper dielectric; 0.05 mfd. - 6 + 14%; 600 V. D-C working; metal case 1-25/32" long x 1-1/32" deep x 13/16" high, with 2 mtg. feet with 2-1/8" mtg. centers; 2 solder lug terminals insulated from case by neoprene seals and phenolic washers; same as C ₃₅	A-N-L by-pass	IC type 7678	46A005
C ₂₆	Same as C ₂₄	Diode filter for tube V ₆	-	-
C ₂₇	Capacitor, fixed: mica dielectric; 100 mmfd. $\pm 10\%$; 500 V. D-C working; case 51/64" lg x 15/32" wd x 7/32" thick.	A-V-C filter	ASA	CM20A101K
C ₂₈	Capacitor, fixed: mica dielectric; 560 mmfd. $\pm 10\%$; 500 V. D-C working; case 53/64" long x 53/64" wide x 9/32" thick.	A-V-C filter	ASA	CM30A561K
C ₂₉	Capacitor, fixed: ceramic dielectric; 25 mmfd. $\pm 10\%$; 500 V. D-C working; negative 0 temp. coeff; body 5/8" lg x 3/16" dia.	Coupling between tube V ₇ and transformer T ₁₄	IRC special	47A142
C ₃₀	Same as C ₈	Plate return for tube V ₇	-	-
C ₃₁	Same as C ₂₀	Cathode by-pass for tube V ₈	-	-
C ₃₂	Capacitor, fixed; mica dielectric; 560 mmfd. $\pm 10\%$; 500 V. D-C working; case 1-1/16" long x 15/32" wide x 7/32" thick.	De-emphasis for tube V ₈	ASA	CM25A561K

C ₃₃	Same as C ₈	Coupling between tubes V ₆ , V ₈ and V ₉	-	-
C ₃₄	Capacitor, fixed: mica dielectric; 1000 mmfd \pm 10%; 500 V. D-C working; case 53/64" square x 9/32 thk.	Grid by-pass for tube V ₁₂	ASA	CM30A102K
C ₃₅	Same as C ₂₅	Tone control for tubes V ₁₁ and V ₁₂	-	-
C ₃₆	Same as C ₈	Coupling between tubes V ₉ and V ₁₂	-	-
C ₃₇	Same as C ₈	Coupling between tubes V ₉ and V ₁₁	-	-
C ₃₈	Capacitor, fixed: paper dielectric; 20 mfd. - 10 + 75%; 25 V. D-C working; case hermetically sealed metal 2-1/8" long x 1" deep x 13/16" high; 2 mtg. feet with 2-1/8" mtg. centers; 2 solder lug terminals insulated from the case; same as C ₄₀	Cathode by-pass for tube V ₉	IC type 1B113	46A011
C ₃₉	Capacitor, fixed: mica dielectric; 150 mmfd. \pm 10%; 500 V. D-C working; case 51/64" lg x 15/32" wd x 7/32" thk	Tone control for tubes V ₁₁ and V ₁₂	ASA	CM20A151K
C ₄₀	Same as C ₃₈	Cathode by-pass for tube V ₉	-	-
C ₄₁	Not used			
C ₄₂	Capacitor, fixed: paper dielectric; triple unit; unit #1 is 4 mfd. 650 V. D-C working (C ₄₂), unit #2 is 8 mfd. 650 V. D-C working (C ₄₃), unit #3 is 8 mfd. 650 V. D-C working (C ₄₄); hermetically sealed metal case 4-1/4" long x 2-1/2" deep x 5-7/16" high; 2 mtg. feet with 4-3/4" x 2" mtg. centers; 4 solder lug terminals (one common to all units) insulated from the case by bakelite and neoprene washers; terminals marked "8", "4", "8".			
C ₄₃		Power supply filter	IC type 7392E	42B043
C ₄₄				
C ₄₅	Same as C ₃	Heater by-pass for tube V ₁₅	-	-
C ₄₆	Same as C ₃	Heater by-pass for tube V ₂	-	-
C ₄₇	Same as C ₃	Heater by-pass for tube V ₁	-	-

MODEL S-36A PARTS LIST

Ref. Symbol	Name of Part and Description	Function	Mfr Code and Type No.	Hallicrafter's Part No.
C ₄₈	Capacitor, fixed: mica dielectric; 8200 mmfd \pm 20%; 500 V. D-C working; case 53/64" square x 11/32" thk; same as C ₄₉ , C ₅₀ , C ₅₁ .	Power line filter in LF ₁	ASA	CM35A822M
C ₄₉	Same as C ₄₈	Power line filter in LF ₁	-	-
C ₅₀	Same as C ₄₈	Power line filter in LF ₁	-	-
C ₅₁	Same as C ₄₈	Power line filter in LF ₁	-	-
C ₅₂	Same as C ₄	Plate decoupling for tube V ₁₄	-	-
C ₅₃	Capacitor, fixed: mica dielectric; 100 mmfd \pm 20%; 500 V. D-C working; case 51/64" lg x 15/32" wd x 7/32" thk.	B-F-0 grid coupling	ASA	CM20A101K
C ₅₄	Capacitor, fixed: ceramic dielectric; 200 mmfd \pm 10%; 500 V. D-C working; zero temp. coeff; body 1.875" lg x 0.265" dia.	B-F-0 tuning on L ₅	ER	47A026
C ₅₅	Same as C ₃	Plate decoupling for tube V ₁₅	-	-
C ₅₆	Capacitor, fixed: ceramic dielectric; 50 mmfd \pm 2.5 mmfd; 500 V. D-C working; neg. 0.00075 mmfd/mmfd/deg. Cent.; body 7/16" lg x 7/32" dia.	Plate decoupling for tube V ₁₅	ER type N750K	47A109
C ₅₇	Capacitor, fixed: ceramic dielectric; 1000 mmfd \pm 20%; 500 V. D-C working; body 11/16" lg x 3/16" dia.	Grid coupling for tube V ₁₅	MT type 20K1200	47A132
C ₅₈	Capacitor, adjustable: mica dielectric; 450 mmfd \pm 10%; bakelite mtg. insulation; 2 solder lug terminals to which are attached #1SAWG tinned copper leads 1" long, both leads insulated from the frame; special L shaped mtg. frame 1" x 7/8" x 1"; octagon condenser frame 3/4" diam.	Padder for transformer T ₇	UE type S81A	44A050

C ₅₉	Capacitor, fixed: twisted pair of leads to form 1 mmfd capacity.	Coupling between tubes V ₁₄ and V ₆	-	-
C ₆₀	Capacitor, variable: air dielectric; min. cap. 3.5 mmfd, max. cap. 23 mmfd; ceramic insulation; 2 mtg. holes with 21/32" mtg. centers; one solder lug terminal (rotor plates); wire slot on stator plates mtg. posts; shaft 29/32" long x 1/4" dia.; base 1-7/32" long x 15/16" wide; overall depth 2-3/8".	Pitch control for tube T ₁₄	RC type 22-7	48A064
C ₆₁	Same as C ₄	Screen grid by-pass for tube V ₂	-	-
C ₆₂	Same as C ₈	Plate decoupling for tube V ₂	-	-
C ₆₃	Capacitor, adjustable: mica dielectric; min. cap. 3 mmfd, max. cap. 50 mmfd; ceramic insulation; compression type adjustment; unit is 3/4" long x 5/8" wide x 11/16" deep including 2 solder lug terminals.	Secondary trimmer for transformer T ₄	UE Special	44A049
C ₆₄	Capacitor, adjustable: ceramic dielectric; 4 to 20 mmfd; 300 V. D-C working; screw driver adjustment; vertically mounted by a CRS special mtg bracket; same as C ₆₅ .	Secondary trimmer for transformer T ₅	H Special	44A101
C ₆₅	Same as C ₆₄	Secondary trimmer for transformer T ₆	-	-
C ₆₆	Capacitor, adjustable: air dielectric; 1 to 12 mmfd; bakelite insulation; screw driver adjustment; 1-11/64" lg x 0.555" dia. overall excluding solder lug terminals; same as C ₆₇ .	Secondary trimmer for transformer T ₇	MN type 22-5230 modified	44A140
C ₆₇	Same as C ₆₆	Secondary trimmer for transformer T ₈	-	-
C ₆₈	Capacitor, fixed: ceramic dielectric; 100 mmfd ± 3%; 500 V. D-C working; neg. 0.00005 mmfd temp. coeff.; body 3/4" lg x 1/4" dia.; same as C ₆₉ , C ₇₀ , C ₇₁ , C ₇₂ , C ₇₃ , C ₇₆ , C ₇₇ .	Primary trimmer for transformer T ₁₀	ER Special	47A117

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Ref. Symbol	Name of Part and Description	Function	Mfr Code and Type No.	Hallicrafter's Part No.
C ₆₉	Same as C ₆₈	Secondary trimmer for transformer T ₁₀	-	-
C ₇₀	Same as C ₆₈	Primary trimmer for transformer T ₁₁	-	-
C ₇₁	Same as C ₆₈	Secondary trimmer for transformer T ₁₁	-	-
C ₇₂	Same as C ₆₈	Primary trimmer for transformer T ₁₂	-	-
C ₇₃	Same as C ₆₈	Secondary trimmer for transformer T ₁₂	-	-
C ₇₄	Capacitor, fixed: ceramic dielectric; 50 mmfd $\pm 10\%$; 500 V. D-C working; zero temp. coeff; body 3/4" lg x 1/4" dia.; same as C ₇₅ .	Primary trimmer for transformer T ₁₄	ER Special	47A091
C ₇₅	Same as C ₇₄	Secondary trimmer for transformer T ₁₄	-	-
C ₇₆	Same as C ₇₄	Primary trimmer for transformer T ₁₃	-	-
C ₇₇	Same as C ₇₄	Secondary trimmer for transformer T ₁₃	-	-
C ₇₈	Same as C ₈	Plate decoupling for tube V ₁	-	-
FUSES				
FS ₁	Fuse: 3 amperes @250 V.; 4AG; glass enclosed; 1-1/4" long x 9/32" dia.; caps nickle plated copper alloy; carries 110% of rated current; vibration factor is 200.	Power transformer primary protection	LF type 1093	39A318

JACKS

J_1	Jack, phone: switching-one make, one break; steel frame; silver contacts; rubber and bakelite insulation; mounted by 3/8-32 brass bushing $\frac{1}{2}$ " long; frame dimensions 1-19/32" x 27/32" x 3/4"; solder lug contacts; 1" from front of bushing to tip contact.	600 ohm headset connector.	U type ST-687 modified	36B008
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INDUCTORS

L_1	Inductor, R-F: 75 turns of #38SCE single layer winding; inductance 15.5 microhenries $\pm 10\%$; d-c resistance 4.10 ohms $\pm 3\%$; wound on molded bakelite coil form 15/16" long x 5/32" dia., coated with Chinese red lacquer; air core.	Plate choke for tube V_{15}	SWI type 661	53A008
L_2	Inductor, line filter: 57 turns of #22SCE universal winding; 46 microhenries inductance; winding $\frac{1}{2}$ " ID x 1-1/16" OD x 9/32" lg; air core; coil form 1" lg x $\frac{1}{2}$ " dia., tapped 6-32 at each end for mtg.	Power line filter choke	H 53A082	53A062
L_3 L_4	Same as L_2 Inductor, R-F: 42 turns of #26SCE single layer winding; inductance 4.20 microhenries $\pm 10\%$; d-c resistance 0.25 ohms $\pm 70\%$; wound on molded bakelite coil form 7/8" long x 9/32" dia., coated with Chinese blue lacquer; air core.	Power line filter choke Choke for heater of tube V_{15}	- SWI type 662	- 53A009
L_5	Inductor, beat frequency oscillator: 15-7/8 turns of #15/44 D cel. litz single layer winding tapped 3-1/S" turns and 10-7/8 turns from start of winding; coil wound on xx bakelite tube 1-5/8" long x $\frac{1}{2}$ " O.D. x 0.409" I.D.; tuned by adjustable iron core; unit shielded; assembly includes resistor R_{61} and capacitors C_{53} , C_{54} , and C_{59} .	Beat frequency oscillator (B-F-0) coil	SWI type 3491	54C024

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Ref. Symbol	Name of Part and Description	Function	Mfr Code and Type No.	Hallicrafter's Part No.
L ₆ L ₇	Inductor assembly, filter: 2 section unit; section #1 inductance 3 henries - 10 + 30% @ 150 milliamperes; d-c resistance 85 ohms \pm 10%; connected to solder lug terminals #2 and #3 (L ₆); section #2 inductance 12 henries - 10 + 20%, @ 90 milliamperes; d-c resistance 215 ohms \pm 10%; connected to solder lug terminals #1 and #2 (L ₇); each section has a separate iron core; coils and cores located so no mutual coupling exists; hermetically sealed case 3- $\frac{1}{4}$ " long x 2- $\frac{9}{16}$ " deep x 5- $\frac{1}{2}$ " high; unit mounts by 4 threaded lugs with 2- $\frac{5}{8}$ " x 1- $\frac{9}{16}$ " mtg. centers; breakdown between core and windings 2000 V. RMS; heat rise under rated load 40 deg. Cent. or less	Power supply filter choke	ST type 10CU23	56C048
LINE FILTERS				
LF ₁	Line filter assembly: consists of inductors L ₂ and L ₃ , and capacitors C ₄₈ , C ₄₉ , C ₅₀ and C ₅₁ , mounted in drawn aluminum can 4- $\frac{15}{32}$ " high, x 1- $\frac{3}{8}$ " wide x 1- $\frac{13}{16}$ " deep with solder lug terminals and mounted by 4 spade lugs.	A-C line filter	SWI type 3492	53A056
LAMPS				
LM ₁	Lamp: bayonet base 6 to 8 volts @ 250 milliamperes; glass bulb; same as LM ₂	Main tuning dial lamp	GE type 44	39A003
LM ₂	Same as LM ₁	Vernier tuning dial lamp	-	-

METERS

M ₁	Meter, "S" meter: calibrated in "S" units; 160-0-40 micro-amperes movement; body 2.82" dia. x 1.96" deep; round flush type mtg. plate 3.5 O.D., with 3 mtg. holes 120 degrees apart; includes 2 terminals $\frac{1}{4}$ -28-NF2 which project 0.69" from rear of meter.	A.M./F.M. tuning meter	H Special	82A097
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PLUGS

PL ₁	Plug and line cord assembly: 2 conductor #18 type S-J all rubber covered cord 6 feet long with a spring type (allied type 371) molded on plug at one end and stripped and tinned for 5/8" at the other end.	A-C power line connection	B type 1750	87A125
PL ₂	Plug, octal: male, bakelite body 1- $\frac{1}{2}$ " O.D. x 7/16" thick; metal contact prongs 7/16" long; supplied with insulated jumpers between contacts 3 and 4, and contacts 6 and 7.	Shorting plug for A-C operating and remote stand-by connection	AP type CP-8	35A003

RESISTORS

R ₁	Resistor, fixed: 270 ohms \pm 10%; $\frac{1}{2}$ watt; carbon; insulated; 0.249" O.D. x 0.655" long.	Cathode bias for tube V ₁	ASA	RC21AE271K
R ₂	Resistor, fixed: 1000 ohms \pm 10%; $\frac{1}{2}$ watt; carbon; insulated; 0.249" O.D. x 0.655" long; same as R ₃ , R ₆ , R ₂₁ , R ₂₇ , R ₆₇ .	Screen voltage dropping for tube V ₁	ASA	RC21AE102K
R ₃	Same as R ₂	Plate decoupling for tube V ₁	-	-
R ₄	Resistor, fixed: 10,000 ohms \pm 20%; 2 watt; carbon; insulated; 0.342" O.D. x 1.76" long.	Plate decoupling for tube V ₁	ASA	RC41AE103M
R ₅	Resistor, fixed: 2200 ohms \pm 10%; $\frac{1}{2}$ watt; carbon; insulated; 0.249" O.D. x 0.655" long; same as R ₂₉ , R ₇₂ .	Cathode bias for tube V ₂	ASA	RC21AE222K

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Ref. Symbol	Name of Part and Description	Function	Mfr Code and Type No.	Hallicrafter's Part No.
R ₆	Same as R ₂	Screen voltage dropping for tube V ₂	-	-
R ₇	Resistor, fixed: 100,000 ohms \pm 10%; $\frac{1}{2}$ watt; carbon; insulated; 0.249" O.D. x 0.655" long; same as R ₃₃ , R ₄₀ , R ₄₁ , R ₅₁ .	Screen voltage dropping for tube V ₂	ASA	RC21AE104K
R ₈ R ₉	Not used Resistor, fixed: 10 ohms \pm 10%; $\frac{1}{2}$ watt; carbon; insulated; 0.249" O.D. x 0.655" long; same as R ₁₆ , R ₂₃ , R ₂₆ .	1st I-F band expansion on transformer T ₁₀	ASA	RC21AE100K
R ₁₀	Resistor, fixed: 100,000 ohms \pm 10%; $\frac{1}{2}$ watt; carbon; insulated; 0.170" diam x 0.406" long.	A-V-C decoupling for tube V ₃	ASA	RC10AE104K
R ₁₁	Resistor, variable: 10,000 ohm \pm 20%; #8 reversed taper; shaft 1" long x $\frac{1}{4}$ " dia.; 3 solder lug terminals with the variable contact located in the center and the fixed contacts 1-7/16" apart; no taps; includes a toggle action switch (SW ₃) on rear which closes the circuit when the control is turned to the extreme right (clockwise).	R.F. GAIN control	CT type 135	25C058G
R ₁₂	Resistor, fixed: 120 ohms \pm 10%; $\frac{1}{2}$ watt; carbon; insulated; 0.249" O.D. x 0.468" long.	Cathode bias for tube V ₉	ASA	RC20AE121K
R ₁₃	Resistor, fixed: 120 ohms \pm 10%; $\frac{1}{2}$ watt; carbon; insulated; 0.249" O.D. x 0.655" long; same as R ₂₀ .	Cathode bias for tube V ₃	ASA	RC21AE121K
R ₁₄	Resistor, fixed: 39,000 ohms \pm 10%; $\frac{1}{2}$ watt; carbon; insulated; 0.249" O.D. x 0.655" long.	Screen voltage dropping for tube V ₃	ASA	RC21AE393K
R ₁₅	Resistor, fixed: 330 ohms \pm 10%; $\frac{1}{2}$ watt; carbon; insulated; 0.249" O.D. x 0.655" long; same as R ₂₂ , R ₂₅ , R ₆₂ .	Plate decoupling for tube V ₃	ASA	RC21AE331K

R ₁₆	Same as R ₉	2nd I-F band expansion on transformer T ₁₁	-	-
R ₁₇	Not used.			
R ₁₈	Resistor, fixed: 33 ohms \pm 10%; $\frac{1}{2}$ watt; carbon; insulated; 0.249" O.D. x 0.655" long; same as R ₅₅ , R ₅₇ , R ₆₅ .	Parasitic suppressor for tube V ₅	ASA	RC21AE330K
R ₁₉	Same as R ₁₀	A-V-C decoupling for tube V ₄	-	-
R ₂₀	Same as R ₁₃	Cathode bias for tube V ₄	-	-
R ₂₁	Same as R ₂	Screen voltage dropping for tube V ₄	-	-
R ₂₂	Same as R ₁₅	Plate decoupling for Tube V ₄	-	-
R ₂₃	Same as R ₉	3rd I-F band expansion on transformer T ₁₂	-	-
R ₂₄	Resistor, fixed: 470,000 ohms \pm 10%; $\frac{1}{2}$ watt; carbon; insulated; 0.249" O.D. x 0.655" long; same as R ₃₅ , R ₅₆ .	Grid return for tube V ₅	ASA	RC21AE474K
R ₂₅	Same as R ₁₅	Cathode bias for tube V ₅	-	-
R ₂₆	Same as R ₉	Parasitic suppressor for tube V ₁	-	-
R ₂₇	Same as R ₂	Plate decoupling for tube V ₅	-	-
R ₂₈	Resistor, fixed: 7500 ohms \pm 5%; 10 watt; wire wound; coated with baked vitreous enamel; 3/8" O.D. x 1-3/4" long.	Screen voltage dropping for tubes V ₁ , V ₅ and V ₇	IRC type AB	24BG752D
R ₂₉	Same as R ₅	Screen and plate voltage dropping for tube V ₇	-	-
R ₃₀	Resistor, fixed: 22,000 ohms \pm 10%; 2 watt; carbon; insulated; 0.342" O.D. x 1.76" long; same as R ₆₀ .	Screen voltage divider for tube V ₇	ASA	RC41AE223K
R ₃₁	Resistor, fixed: 47,000 ohms \pm 10%; $\frac{1}{2}$ watt; carbon; insulated; 0.249" O.D. x 0.655" long.	Diode load for tube V ₆	ASA	RC21AE473K