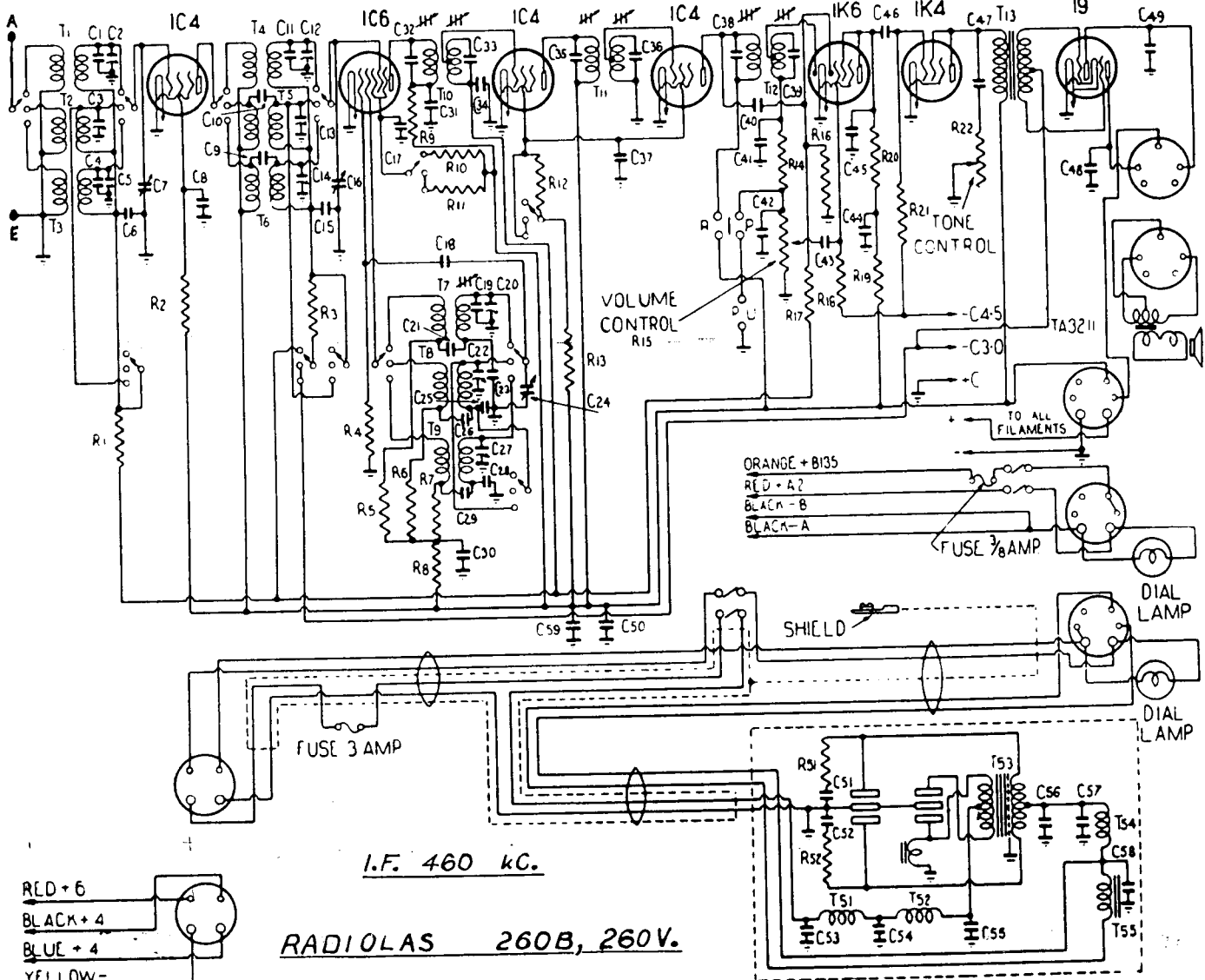


"Radiola" Battery Triple-Wave Console Models 260B and 260V



I.F. 460 kC.

RADIOLAS 260B, 260V.

COMPONENT VALUES.

The numbers in parenthesis following component indices are manufacturer's part numbers.

RESISTORS.

R1, R3, R12, R14, R20—100,000 ohms, $\frac{1}{2}$ W.; R2, R4, R10—60,000 ohms, $\frac{1}{2}$ W.; R5, R19—50,000 ohms, $\frac{1}{2}$ W.; R6—10,000 ohms, $\frac{1}{2}$ W.; R7, R8—5,000 ohms, $\frac{1}{2}$ W.; R9—300 ohms, $\frac{1}{2}$ W.; R11—40,000 ohms, $\frac{1}{2}$ W.; R13—200,000 ohms, $\frac{1}{2}$ W.; R15 (1507)—500,000 ohms, volume control; R16, R17—1.75 meg-ohms, $\frac{1}{2}$ W.; R18, R21—500,000 ohms, $\frac{1}{2}$ W.; R22 (2762)—100,000 ohms, variable, tone control; R51, R52—50 ohms, $\frac{1}{2}$ W.

CONDENSERS.

C1, C4, C11—6 mmfd. (F) mica, coil trimmer shunts; C2, C3, C5, C12, C13, C14, C20, C22—2/20 mmfd., mica, coil trimmers; C6, C15, C21, C26, C29, C31, C34, C43, C46—0.05 mfd., paper; C7, C16, C24 (3399)—sections of 3-gang variable; C8, C17, C37, C53—0.1 mfd., paper; C9—10 mmfd. (B), mica; C10—6 mmfd. (F), mica; C18—50 mmfd. (D), mica; C19—15 mmfd. (C), mica; B/C. osc. coil trimmer shunt; C23—440 mmfd., mica, B/C padder; C25—2,025 mmfd., mica, S/W.1 padder; C28—3,400 mmfd., mica, S/W.2 padder; C30, C50, C56—8 mfd., 500 v., electro; C32, C33, C35, C36, C38, C39—115 mmfd. (A), mica, fixed I.F.T. trimmers; C40—700 mmfd., mica; C41, C42—100 mmfd.

(G), mica; C44, C58, C59—0.5 mfd., paper; C45—200 mmfd. (J), mica; C47—0.035 mfd., paper; C48, C49—0.005 mfd., paper; C51, C52, C57—0.02 mfd., paper; C54, C55—0.25 mfd., paper.

COILS, ETC.

T1, T2 (3563)—B/C. and S/W.1 aer. coils respectively; T3 (3568)—S/W.2 aer. coil; T4, T5 (3565)—B/C. and S/W.1 R.F. coils respectively; T6 (3569)—S/W.2 R.F. coil; T7, T8 (3567)—B/C. and S/W.1 osc. coils respectively; T9 (3570)—S/W.2 osc. coil; T10, T11 (3621)—460 kC., 1st and 2nd I.F. transformers respectively; T12 (3623)—460 kC., 3rd I.F. transformer; T13 (3628)—audio driver transformer; T51 (3149)—low-tension R.F. choke; T52 (3294)—low-tension R.F. choke; T53 (3290)—vibrator transformer, 4 volt type; T54 (3303)—high-tension R.F. choke; T55 (3292)—high-tension smoothing choke.

OPERATING VOLTAGES.

The following measurements were made with a "1,000 ohms per volt" meter unless otherwise stated, and voltages are those existing between the socket contact indicated and chassis. The receiver was operating under "no signal" conditions with all controls turned to their maximum clockwise position except the wave-change switch which was set as desired. Those readings shown in parenthesis were made with the

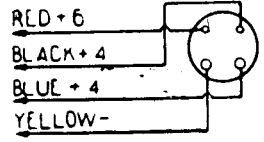
(Continued in col. 3, page 309)

RADIOLA "260B"
1937 BATTERY-OPERATED
CONSOLE

RADIOLA "260V"
1937 VIBRATOR-POWERED
CONSOLE

Both use 10-inch, permag.
loudspeaker.

These models employ the same basic chassis and are readily interchangeable by use of appropriate power supply cable. Note use of tapped 6-volt battery for "vibrator" operation and retention of tapped bias battery.



Code	Part No.	COILS — RECEIVER UNIT	Code	Part No.	RESISTORS — RECEIVER UNIT	Code	Part Nos.	CONDENSERS — RECEIVER UNIT
T1	3563	Aerial Coil, 1500-550 K.C.	R16		1½ Megohm, ½ watt	C26		.05 mfd. Paper
T2	3563	Aerial Coil, 35-105 Metres	R17		1½ Megohm, ½ watt	C27		2-20 mmfd. Air Trimmer
T3	3568	Aerial Coil, 13-39 Metres	R18		500,000 ohms, ½ watt	C28		3400 mmfd. Mica
T4	3565	R.F. Coil, 1500-550 K.C.	R19		50,000 ohms, ½ watt	C29		.05 mfd. Paper
T5	3565	R.F. Coil, 35-105 Metres	R20		100,000 ohms, ½ watt	C30		8 mfd. 500V. Electrolytic
T6	3569	R.F. Coil, 13-39 Metres	R21		500,000 ohms, ½ watt	C31		.05 mfd. Paper
T7	3567	Osc. Coil, 1500-550 K.C.	R22	2762	100,000 ohms, Tone Control	C32		115 mmfd. Mica (A)
T8	3567	Osc. Coil, 35-105 Metres				C33		115 mmfd. Mica (A)
T9	3570	Osc. Coil, 13-39 Metres				C34		.05 mfd. Paper
T10	3621	First I.F. Transformer			RESISTORS — POWER UNIT	C35		115 mmfd. Mica (A)
T11	3621	Second I.F. Transformer				C36		115 mmfd. Mica (A)
T12	3623	Third I.F. Transformer				C37		.1 mfd. Paper
T13	3628	Audio Driver Transformer				C38		115 mmfd. Mica (A)
			R51		50 ohms, ½ watt	C39		115 mmfd. Mica (A)
			R52		50 ohms, ½ watt	C40		700 mmfd. Mica
		COILS — POWER UNIT				C41		100 mmfd. Mica (G)
					CONDENSERS — RECEIVER UNIT	C42		100 mmfd. Mica (G)
T51	3149	R.F. Choke				C43		.05 mfd. Paper
T52	3294	R.F. Choke				C44		.5 mfd. Paper
T53	3290	Vibrator Transformer, 4V	C1		6 mmfd. Mica (F)	C45		200 mmfd. Mica (J)
T54	3303	R.F. Choke	C2		2-20 mmfd. Air Trimmer	C46		.05 mfd. Paper
T55	3242	Smoothing Choke	C3		2-20 mmfd. Air Trimmer	C47		.035 mfd. Paper
			C4		6 mmfd. Mica (F)	C48		.005 mfd. Paper
			C5		2-20 mmfd. Air Trimmer	C49		.005 mfd. Paper
		RESISTORS — RECEIVER UNIT	C6		.05 mfd. Paper	C50		8 mfd. 500V. Electrolytic
			C7	3399	Variable Condenser	C51		.5 mfd. Paper
			C8		.1 mfd. Paper			CONDENSERS — POWER UNIT
			C9		10 mmfd. Mica (B)			
R1		100,000 ohms, ½ watt	C10		6 mmfd. Mica (F)			
R2		60,000 ohms, ½ watt	C11		6 mmfd. Mica (B)	C51		.02 mfd. Paper
R3		100,000 ohms, ½ watt	C12		2-20 mmfd. Air Trimmer	C52		.02 mfd. Paper
R4		60,000 ohms, ½ watt	C13		2-20 mmfd. Air Trimmer	C53		.1 mfd. Paper
R5		50,000 ohms, ½ watt	C14		2-20 mmfd. Air Trimmer	C54		.25 mfd. Paper
R6		10,000 ohms, ½ watt	C15		.05 mfd. Paper	C55		.25 mfd. Paper
R7		5,000 ohms, ½ watt	C16	3399	Variable Condenser	C56		8 mfd. 500V. Electrolytic
R8		5,000 ohms, ½ watt	C17		.1 mfd. Paper	C57		.02 mfd. Paper
R9		300 ohms, ½ watt	C18		50 mmfd. Mica (D)	C58		.5 mfd. Paper
R10		60,000 ohms, ½ watt	C19		15 mmfd. Mica (C)			
R11		40,000 ohms, ½ watt	C20		2-20 mmfd. Air Trimmer			
R12		100,000 ohms, ½ watt	C21		.05 mfd. Paper			
R13		200,000 ohms, ½ watt	C22		2-20 mmfd. Air Trimmer			
R14		100,000 ohms, ½ watt	C23		440 mmfd. Mica Padding			
R15	1507	500,000 ohms, Vol. Control	C24	3399	Variable Condenser			
			C25		2025 mmfd. Mica Padding			

RADIOLAS 260B AND 260V CIRCUIT DATA

Radiola Models 260B and 260V

ELECTRICAL SPECIFICATIONS.

Battery Complement (260B)

Accumulator "A" Battery	2 Volts (1.04 amps.)
"B" Battery	135 Volts
"C" Battery	4½ Volts

Battery Complement (260V)

Accumulator	6 Volts (1.2 amps.)
"C" Battery	4½ Volts

Tuning Ranges

(A)	550-1500 Kilocycles
(B)	35- 105 Metres
(C)	13- 39 Metres

Intermediate Frequency

460 Kilocycles

SOCKET VOLTAGES.

VALVE	Chassis to Control Grid Volts	Chassis to Screen Grid Volts	Chassis to Plate Volts	Plate Current M.A.	Filament Volts
1C4 R.F. Amplifier ...	0	*60	135	2.5	2.0
1C6 Detector M.W.	0	*30	130	2.5	2.0
S.W.	-3	*60	130	2.0	-
Oscillator M.W.	-	-	55	1.5	-
S.W.	-	-	100	3.0	-
1C4 I.F. Amplifier—					
M.W.	0	*30	135	0.5	2.0
S.W.	0	*45	135	1.0	-
1C4 I.F. Amplifier—					
M.W.	0	*30	135	0.5	2.0
S.W.	0	*45	135	1.0	-
1K6 Detector	-4.5	-	60	.35	2.0
1K4 Triode	-4.5	-	130	3.5	2.0
19 Output	-3	-	130	4.0	2.0

Measured with no signal input.

* Cannot be measured with an ordinary voltmeter.

RADIOLA MODELS

"260B" & "260V"

(Continued from page 307)

wave-change switch in both the "S/W.1" and "S/W.2" positions, whilst the alternative readings were taken with the receiver on "B/C."; all other readings are unaffected by the position of the wave-change switch. Grid voltages are measured at their source, and not at the socket contacts. Screen voltages on all valves cannot be measured with an ordinary "1,000 ohms per volt" meter, but they are included for the sake of completeness.

1C4, R.F. Amplifier: Plate, 135 v.; screen, 60 v.; grid, zero. Plate current, 2.5 mA.

1C6, Frequency Converter: Plate, 130 v.; screen, 30 v. (60 v.); grid, zero (-3 v.); osc. anode grid, 55 v. (100 v.). Plate current, 2.5 mA.

1C4, 460 kC., 1st I.F. Amplifier: Plate, 135 v.; screen, 30 v. (45 v.); grid, zero. Plate current, 0.5 mA. (1 mA.).

1C4, 460 kC., 2nd I.F. Amplifier: Plate, 135 v.; screen, 30 v. (45 v.); grid, zero. Plate current, 0.5 mA. (1 mA.).

1K6, Detector, A.V.C. Rectifier and A.F. Voltage Amplifier: Plate, 60 v.; screen, tied to plate; grid, -4.5 v. Plate current, 0.4 mA.

1K4, Driver: Plate, 130 v.; screen, tied to plate; grid, -4.5 v. Plate current, 3.5 mA.

19, Double-Triode, Output: Each plate, 130 v.; each grid, -3 v. Each plate current, 2 mA.

"A" battery drain, 1 ampere at 2 volts (model 260B), 1.2 amperes at 6 v. (model 260 v.); "B" battery drain, 15 mA. (model 260 B).