



CONDENSERS		Values (μF)
C1	V1 SG decoupling ...	0.1
C2	V1 cathode by-pass ...	0.01
C3	HT circuit RF by-pass ...	0.1
C4	V2 diode coupling ...	0.0001
C5	RF by-pass ...	0.0001
C6	Microphone coupling ...	0.1
C7	Radio and PU coupling ...	0.01
C8*	V2 anode decoupling ...	8.0
C9	AF coupling to V3 ...	0.1
C10	RF by-pass condensers ...	0.0006
C11		0.0001
C12*	V3, V4 anodes decoupling ...	8.0
C13	AF coupling to V5 ...	0.03
C14	AF coupling to V6 ...	0.03
C15	RF by-pass ...	0.0001
C16*	HT smoothing condensers ...	8.0
C17*		0.01
C18	Mains RF by-pass ...	—
C19†	Aerial series condenser ...	—
C20†	Aerial circuit tuning ...	—
C21†	Aerial circuit trimmer ...	—
C22†	RF trans. sec. tuning ...	—
C23†	RF trans. sec. trimmer ...	—

* Electrolytic. † Variable. ‡ Pre-set.

VALVE ANALYSIS

Valve	Anode Voltage (V)	Anode Current (mA)	Screen Voltage (V)	Screen Current (mA)
V1 VP41	260	9.7	200	2.2
V2 HL41DD	70	1.7	—	—
V3 AC/HL	85	1.7	—	—
V4 AC/HL	85	1.7	—	—
V5 Pen45	244	43.5	258	8.5
V6 Pen45	244	43.5	258	8.5
V7 UU6	304†	—	—	—

† Each anode, AC.

RESISTORS		Values (ohms)
R1	V1 SG HT feed ...	20,000
R2	V1 GB resistor ...	300
R3	V2 signal diode load ...	250,000
R4	Radio and PU gain control ...	500,000
R5	Microphone gain control ...	500,000
R6	V2 triode grid stopper ...	10,000
R7	V2 triode anode decoupling ...	50,000
R8	V2 triode anode load ...	50,000
R9	V2 heater circuit potential divider ...	25
R10		25
R11	V3 CG resistance ...	1,000,000
R12	V3 grid stopper ...	10,000
R13	V3 GB resistor ...	1,000
R14	V3 anode load ...	50,000
R15	V4 GB resistor ...	1,000
R16	V3, V4 anodes decoupling ...	20,000
R17	V4 anode load ...	50,000
R18	V4 CG resistor ...	20,000
R19	V3 output potential divider ...	250,000
R20		40,000
R21	V6 CG resistor ...	500,000
R22	V5 grid stopper ...	250,000
R23	V6 grid stopper ...	250,000
R24	V6 GB resistor ...	175
R25	V5 GB resistor ...	175
R26	V5 anode stopper ...	50
R27	V6 anode stopper ...	50

Chassis Divergencies.—In models supplied prior to May 1, 1943, the following differences will, according to the makers' information, be found:

The blank section of the tuning condenser gang will be used, and a band-pass RF circuit will be associated with it.

A microphone input transformer will be found built in the chassis.

A 50,000 Ω resistor will be found in place of the air-cored choke L4.

C18 may be found connected at the opposite side of S4, C10 may be connected directly to V2 triode anode, and C15 may be connected to the other side of C14. Also, C4 and C5 may be 0.00015 μF.

OTHER COMPONENTS		Approx. Values (ohms)
L1	Aerial tuning coil ...	2.7
L2	RF trans { Pri. ...	3.5
L3		2.9
L4	Diode circuit choke ...	60.0
L5	HT smoothing choke ...	360.0
T1	Output trans. { Pri., total ...	500.0
		1.2
	trans. { Sec., total ...	26.0
		Very low
T2	Mains trans. { Heater sec. ...	0.1
		280.0
S1-S3	Radio/gram. change switches ...	—
S4	Mains switch ...	—

DESIGNED for "Music While You Work" entertainment in factories, the Ambassador PA143 is a 6-valve (plus rectifier) AC-operated amplifier unit with a rated output of 10-12 watts from a class A stage.

A self-contained RF unit provides for radio reception, and fader controls perform microphone/radio or microphone/pick-up change-over. The mains voltage range is 200-250 V AC only and no adjustment tapings are provided on the mains transformer.

* Emission de musique légère ininterrompue et sans paroles qui avait lieu chaque après midi de semaine à la BBC (à l'époque sur 200 kHz).