



ITEM	PART NO.	VALUE	REMARKS	ITEM	PART NO.	VALUE	REMARKS	ITEM	PART NO.	VALUE	REMARKS	ITEM	PART NO.	VALUE	REMARKS
RESISTORS															
R-1	28149	18000 OHMS	± 10% 1 WATT	R-16	28144	390 OHMS	± 5% 1/2 WATT	C-1	25427	.002 MFD.	± 5% MICA	C-16	28138	20. MFD	450 VOLTS
R-2	26378	7500 OHMS ± 15%	DUAL VOLUME CONTROL	R-17	28133	950 OHMS BLEEDER	± 5% 20 WATT	C-2	22531	.003 MFD.	± 10% MICA	C-17		3. MFD	500 VOLTS
R-3		150,000 OHMS	± 15%	R-18		1500 OHMS BLEEDER	± 5% 25 WATT	C-3	28123	.3 MFD.	± 10% 120 VOLTS	C-18	28924	.00035 MFD	± 10% 600 VOLTS
R-4	22783	7000 OHMS	± 10% 1/4 WATT	R-19	21841	2000000 OHMS	± 10% 1/4 WATT	C-4	25427	.002 MFD.	± 5% MICA	C-19	28924	.00035 MFD	± 10% 600 VOLTS
R-5	23084	25000 OHMS	± 10% 1/4 WATT					C-5	22531	.003 MFD.	± 10% MICA				CHOKES
R-6	21998	35000 OHMS	± 10% 1/4 WATT					C-6	23052	.005 MFD.	± 10% 200 VOLTS	L-1	25598	290-MILLIHENRIES	CHOKER COIL
R-7	28151	10,000 OHMS	± 5% 1/4 WATT					C-7	23052	.005 MFD.	± 10% 200 VOLTS	L-2	28526	400-MILLIHENRIES	CHOKER COIL
R-8	28152	75,000 OHMS	± 5% 1/4 WATT					C-8	28145	.006 MFD.	± 10% 600 VOLTS	L-3	28137	4.1 HENRIES ± 15%	FILTER CHOKER
R-9	28150	600 OHMS	± 5% 1/4 WATT					C-9	28143	.01 MFD.	± 10% 200 VOLTS				
R-10	25575	200,000 OHMS	± 10% 1/4 WATT					C-10	28141	.25 MFD.	± 10% 25 VOLTS				TRANSFORMERS
R-11	28153	15,000 OHMS	± 5% 1/4 WATT					C-11	28211	.25 MFD.	± 10% 400 VOLTS	T-1	28134		AUDIO INPUT
R-12	25575	200,000 OHMS	± 10% 1/4 WATT					C-12	28139	.16 MFD.	50 VOLTS	T-2	28135		AUDIO OUTPUT
R-13	23208	60,000 OHMS	± 10% 1/2 WATT					C-13	28145	.006 MFD.	± 10% 600 VOLTS	T-3	28134	60 CYCLE	POWER
R-14	25432	300,000 OHMS	± 10% 1/4 WATT					C-14	28142	.03 MFD.	± 10% 400 VOLTS	T-4	28470	25 CYCLE	POWER
R-15	28147	10,000 OHMS	± 10% 1 WATT					C-15	28138	.4 MFD.	350 VOLTS				

VOLTAGES AND CURRENTS OF MODEL #851 AMPLIFIER. ALL MEASUREMENTS MADE WITH LINE VOLTAGE 115 VOLTS.
 ALL VOLTAGES MEASURED WITH 1000 OHMS PER VOLT VOLTMETER.

AVERAGE PLATE VOLTAGE MEASURED FROM PLATE TO CHASSIS		AVERAGE PLATE CURRENT		AVERAGE D.C. VOLTAGES		AVERAGE HEATER VOLTAGE	
6L6-G PLATE TO CHASSIS	400 VOLTS	6L6-G PLATE CURRENT	51 MA. D.C.	ACROSS 5Z3 FILAMENT & GROUND	420 VOLTS D.C.	6L6-G FIL. VOLTAGE	6.3 VOLTS A.C.
76 PLATE TO CHASSIS	220 VOLTS	76 PLATE CURRENT	6.5 MA. D.C.	ACROSS C-17	405 VOLTS D.C.	76 FIL. VOLTAGE	6.3 VOLTS A.C.
6C6 PLATE TO CHASSIS	66 VOLTS	6C6 PLATE CURRENT	2.5 MA. D.C.	ACROSS C-16	325 VOLTS D.C.	6C6 FIL. VOLTAGE	6.3 VOLTS A.C.
				ACROSS C-12	24 VOLTS D.C.	THESE FILAMENT VOLTAGES ARE 9.8 VOLTS FOR ACCELERATED CATHODE HEATING WHEN FILAMENTS ARE COOL	
				ACROSS C-10	1.7 VOLTS D.C.		

SPEAKER FIELD - 3200 OHMS. BETWEEN TERMINALS 1+7 ON SPEAKER SOCKET - 220 VOLTS D.C.

ITEM	PART NO.	VALUE	REMARKS
RESISTORS			
R-1	28148	18,000 OHMS	-10% 1 WATT
R-2	26378	7,500	-15% DUAL VOLUME CONTROL
R-3	22783	150,000	-15%
R-4	22783	7,000	-10% 1/4 WATT
R-5	23084	25,000	-10% 1/4
R-6	21998	35,000	-10% 1/4
R-7	28151	10,000	-5% 1/4
R-8	28152	75,000	-5% 1/4
R-9	28150	600	-5% 1/4
R-10	25575	200,000	-10% 1/4
R-11	28153	15,000	-5% 1/4
R-12	25575	200,000	-10% 1/4
R-13	23208	60,000	-10% 1/2
R-14	25432	500,000	-10% 1/4
R-15	28147	10,000	-10% 1
R-16	28146	390	-5% 3
R-17	28133	950	-5% 20
R-18	BLEEDER	1,500	-5% 25
R-19	21841	2,000,000	-10% 1/4
R-20	22530	1,000	-10% 1/4
R-21	28153	15,000	-5% 1/4
R-22	30856	1	-5% 36

AVERAGE PLATE CURRENT			
6L6-6	PLATE CURRENT	51 M.A.	D.C.
76	PLATE CURRENT	6.5 M.A.	D.C.
6C6	PLATE CURRENT	2.5 M.A.	D.C.

AVERAGE D.C. VOLTAGES			
ACROSS	5Z3 FILAMENT & GROUND	420 VOLTS	D.C.
ACROSS	C-17	405 VOLTS	D.C.
ACROSS	C-16	325 VOLTS	D.C.
ACROSS	C-12	24 VOLTS	D.C.
ACROSS	C-10	1.7 VOLTS	D.C.

AVERAGE FILAMENT VOLTAGES			
6L6-6	FILAMENT VOLTAGE	6.3 VOLTS	A.C.
76	FILAMENT VOLTAGE	6.3 VOLTS	A.C.
6C6	FILAMENT VOLTAGE	6.3 VOLTS	A.C.

THESE FILAMENT VOLTAGES ARE 9.8 VOLTS FOR ACCELERATED CATHODE HEATING WHEN FILAMENTS ARE COOL.

SPEAKER FIELD - 3200 OHMS BETWEEN TERMINALS #1 & #7 ON SPEAKER SOCKET - 220 VOLTS D.C.

CONDENSERS			
C-1	25427	.002 MFD	-5% MICA
C-2	22531	.003	-10% "
C-3	28123	.3	-10% 120 VOLTS
C-4	25427	.002	-5% MICA
C-5	22531	.003	-10% "
C-6	23052	.005	-10% 200 VOLTS
C-7	23052	.005	-10% "
C-8	28145	.006	-10% 600
C-9	28143	.01	-10% 200
C-10	28141	25.	-10% 25
C-11	28211	.25	-10% 400
C-12	28139	16.	-10% 50
C-13	28145	.006	-10% 600
C-14	28142	.03	-10% 400
C-15		4	-10% 350
C-16	28138	20	-10% 450
C-17		8	-10% 500
C-18	28924	.00035	-10% 600
C-19	28924	.00035	-10% 600
C-20	24364	.5	-10% 200
C-21	24364	.5	-10% 200
C-22	29143	20	-10% 200
C-23	29017	.01	100 VOLTS AC
C-24	29016	.25	-10% 200 VOLTS
C-25	24329	.1	-10% 200
C-26	30858	4.	-10% 200
C-27			20%-10% 600 VOLTS

CHOKES			
L-1	25598	290 M.H.	CHOKER COIL
L-2	28526	400 " "	" "
L-3	28137	4.1 HENRIES	FILTER CHOKE

TRANSFORMERS			
T-1	28136		AUDIO INPUT
T-2	28135		AUDIO OUTPUT
T-3	29140	60 CYCLE	POWER

VOLTAGES AND CURRENTS OF MODEL #853 AMPLIFIER.
 ALL MEASUREMENTS MADE WITH
 LINE VOLTAGE 32 VOLTS D.C. OR 115 VOLTS 60 CYCLE A.C.
 ALL VOLTAGES MEASURED WITH 1000 OHMS PER VOLT VOLTMETER.

AVERAGE PLATE VOLTAGE MEASURED FROM PLATE TO CHASSIS			
6L6-6	PLATE TO CHASSIS	400 VOLTS	D.C.
76	PLATE TO CHASSIS	220 VOLTS	D.C.
6C6	PLATE TO CHASSIS	65 VOLTS	D.C.

ITEM	PART NO.	VALUE	REMARK
RESISTORS			
R-1	28145	18,000 OHMS	-10% 1 WATT
R-2	26378	7,500 "	-15% DUAL VOLUME CONTROL
R-3	22783	150,000 "	-10% 1/4 WATT
R-4	23084	7,000 "	-10% 1/4 "
R-5	21998	25,000 "	-10% 1/4 "
R-6	28151	35,000 "	-10% 1/4 "
R-7	28152	10,000 "	-5% 1/4 "
R-8	28150	75,000 "	-5% 1/4 "
R-9	25575	600 "	-5% 1/4 "
R-10	28153	200,000 "	-10% 1/4 "
R-11	25575	15,000 "	-5% 1/4 "
R-12	23208	200,000 "	-10% 1/4 "
R-13	25432	60,000 "	-10% 1/4 "
R-14	28147	500,000 "	-10% 1/4 "
R-15	28146	10,000 "	-10% 1 "
R-16	28133	390 "	-5% 3 "
R-17	21841	950 " BLEEDER	" 20 "
R-18	22530	1,500 "	" 25 "
R-19	28153	2,000,000 "	-10% 1/4 "
R-20		1,000 "	-10% 1/4 "
R-21		15,000 "	-5% 1/4 "

ITEM	PART NO.	VALUE	REMARK
CONDENSERS			
C-1	25427	.002 MFD	-5% MICA
C-2	22531	.003 "	-10% "
C-3	28124	.3 "	-10% 120 VOLTS
C-4	25427	.002 "	-5% MICA
C-5	22531	.003 "	-10% "
C-6	23052	.005 "	-10% 200 VOLTS
C-7	23052	.005 "	-10% "
C-8	28145	.006 "	-10% 600 "
C-9	28143	.01 "	-10% 200 "
C-10	28141	25. "	25 "
C-11	28211	.25 "	-10% 400 "
C-12	28139	16. "	50 "
C-13	28145	.006 "	-10% 600 "
C-14	28148	.03 "	-10% 400 "
C-15		4. "	350 "
C-16	28138	20. "	450 "
C-17		8. "	500 "
C-18	28924	.00035 MFD	-10% 600 "
C-19	28924	.00035 "	-10% "
C-20	24364	.5 "	-10% 200 "
C-21	24364	.5 "	-10% "
C-22	29007	2. "	220 "
C-23	29017	.01 "	-10% 200 "
C-24	29016	.25 "	-10% "
C-25	24329	.1 "	-10% "

CHOKES			
L-1	25598	290	M.H. CHOKE COIL
L-2	28526	400	" " " "
L-3	28137	41	HENRIES FILTER CHOKE

TRANSFORMERS			
T-1	28136		AUDIO INPUT
T-2	28135		AUDIO OUTPUT
T-3	29006	60	CYCLE POWER

VOLTAGES AND CURRENTS OF MODEL 852 AMPLIFIER. ALL MEASUREMENTS MADE WITH LINE VOLTAGE 115 VOLTS D.C. OR 40 CYCLE A.C. ALL VOLTAGES MEASURED WITH 1000 OHMS PER VOLT VOLTMETER

AVERAGE PLATE VOLTAGE MEASURED FROM PLATE TO CHASSIS

6L6-6	PLATE TO CHASSIS	400 VOLTS	D.C.
76	" " "	220 "	" "
6C6	" " "	65 "	" "

AVERAGE PLATE CURRENT

6L6-G	PLATE CURRENT	51 M.A.	D.C.
76	" " "	6.5 "	" "
6C6	" " "	2.5 "	" "

AVERAGE D.C. VOLTAGES ACROSS 5Z3 - FILAMENT & GROUND

ACROSS C-17	420 VOLTS	D.C.
ACROSS C-16	405 "	" "
ACROSS C-12	325 "	" "
ACROSS C-10	24 "	" "
	1.7 "	" "

AVERAGE FILAMENT VOLTAGES

6L6-G	FILAMENT VOLTAGE	6.3 VOLTS	A.C.
76	" " "	6.3 "	" "
6C6	" " "	6.3 "	" "

THESE FILAMENT VOLTAGES ARE 28 VOLTS FOR ACCELERATED CATHODE HEATING, WHEN FILAMENTS ARE COOL.

A.C. SPEAKER FIELD - 3200 OHMS BETWEEN TERMINALS 1 & 7 ON SPEAKER SOCKET - 220 VOLTS D.C.