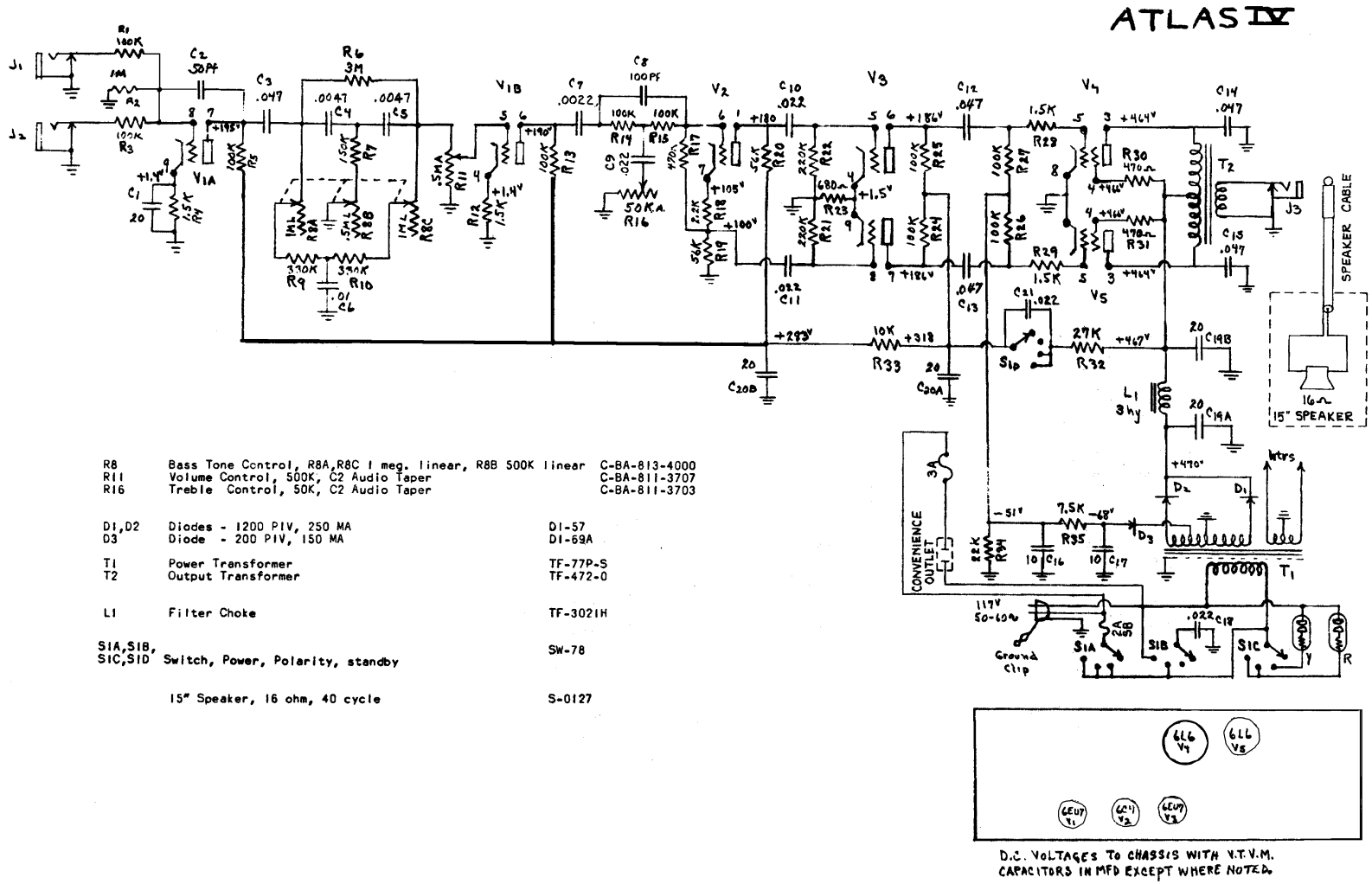
- This File contains 116 schematics from the Gibson company
- To use this file click on the Show/Hide Navigation Pane  (on the menu bar), and then click the Bookmarks tab
- or ... Choose Window > Show Bookmarks
- Click the bookmark for the manufacturer whose schematics you wish to view
- If the entry has a triangle to the left, click on the triangle to view sub-entries



R8	Bass Tone Control, R8A,R8C 1 meg. linear, R8B 500K linear	C-BA-813-4000
R11	Volume Control, 500K, C2 Audio Taper	C-BA-811-3707
R16	Treble Control, 50K, C2 Audio Taper	C-BA-811-3703
D1,D2	Diodes - 1200 PIV, 250 MA	DI-57
D3	Diode - 200 PIV, 150 MA	DI-69A
T1	Power Transformer	TF-77P-S
T2	Output Transformer	TF-472-0
L1	Filter Choke	TF-3021H
S1A,S1B, S1C,S1D	Switch, Power, Polarity, standby	SW-78
	15" Speaker, 16 ohm, 40 cycle	S-0127

FUSE

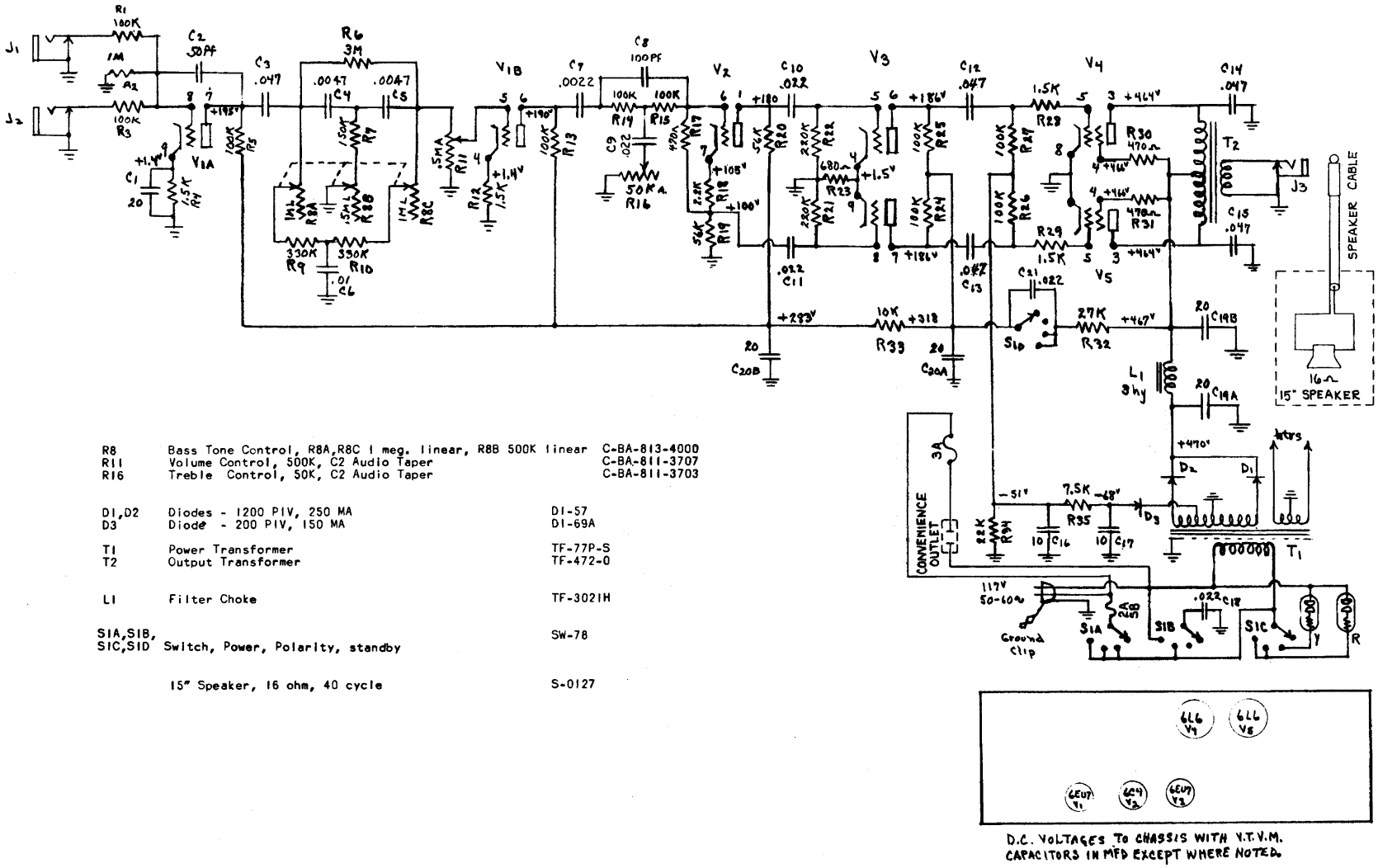
The fuse used in this Amplifier is a type 3AG of three amperes rating

DO NOT USE FUSES OF HIGHER RATING

SERVICE

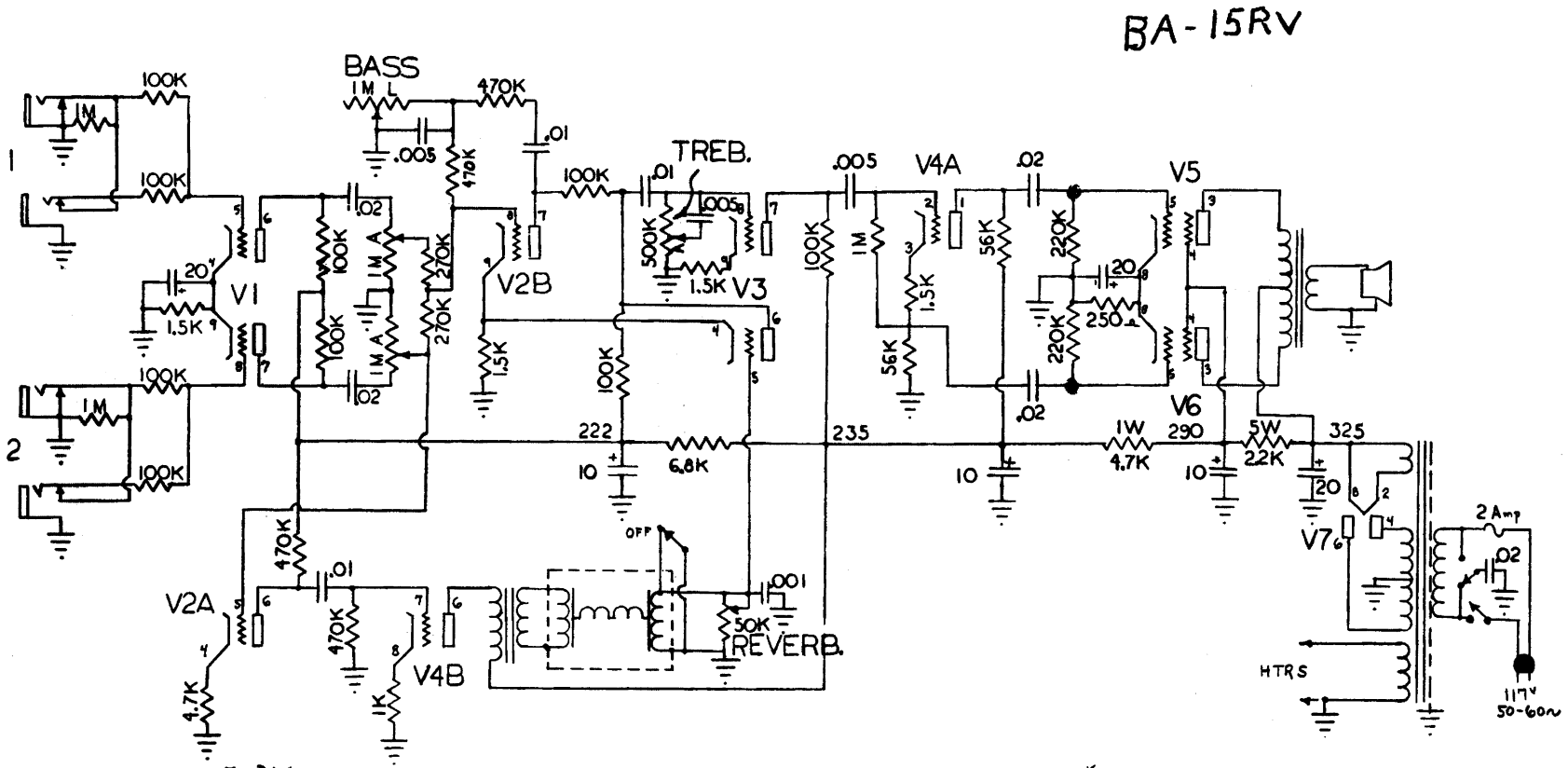
If the amplifier is in need of servicing, it should be taken to a reliable radio man. The electrical diagram in this folder should be shown the repairman to assist him in servicing the amplifier.

ATLAS MEDALIST



R8	Bass Tone Control, R8A,R8C 1 meg. linear, R8B 500K linear	C-BA-813-4000
R11	Volume Control, 500K, C2 Audio Taper	C-BA-811-3707
R16	Treble Control, 50K, C2 Audio Taper	C-BA-811-3703
D1,D2	Diodes - 1200 PIV, 250 MA	D1-57
D3	Diode - 200 PIV, 150 MA	D1-69A
T1	Power Transformer	TF-77P-S
T2	Output Transformer	TF-472-0
L1	Filter Choke	TF-3021H
S1A,S1B, S1C,S1D	Switch, Power, Polarity, standby	SW-78
	15" Speaker, 16 ohm, 40 cycle	S-0127

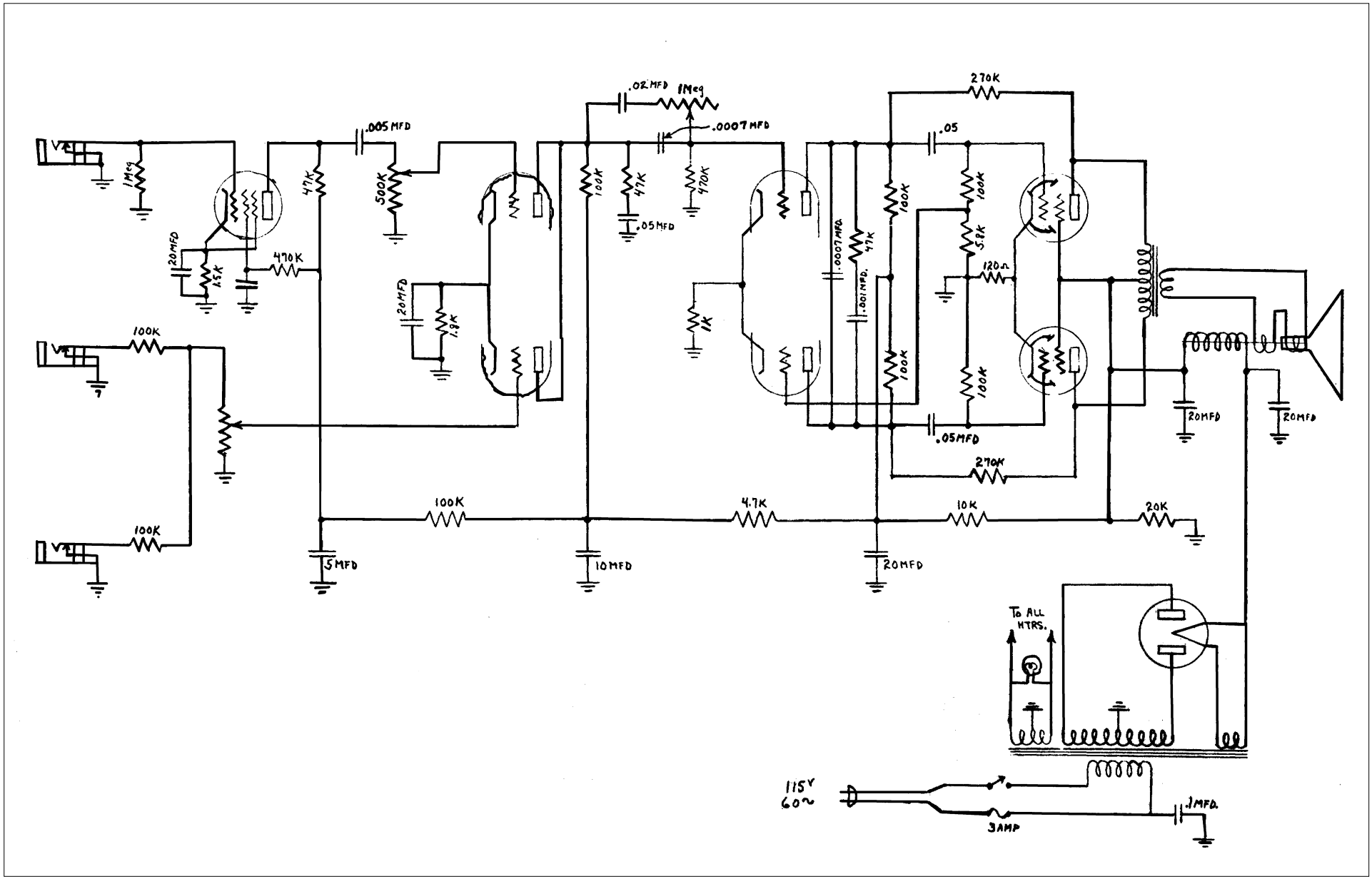
D.C. VOLTAGES TO CHASSIS WITH V.T.V.M.
CAPACITORS IN MFD EXCEPT WHERE NOTED.

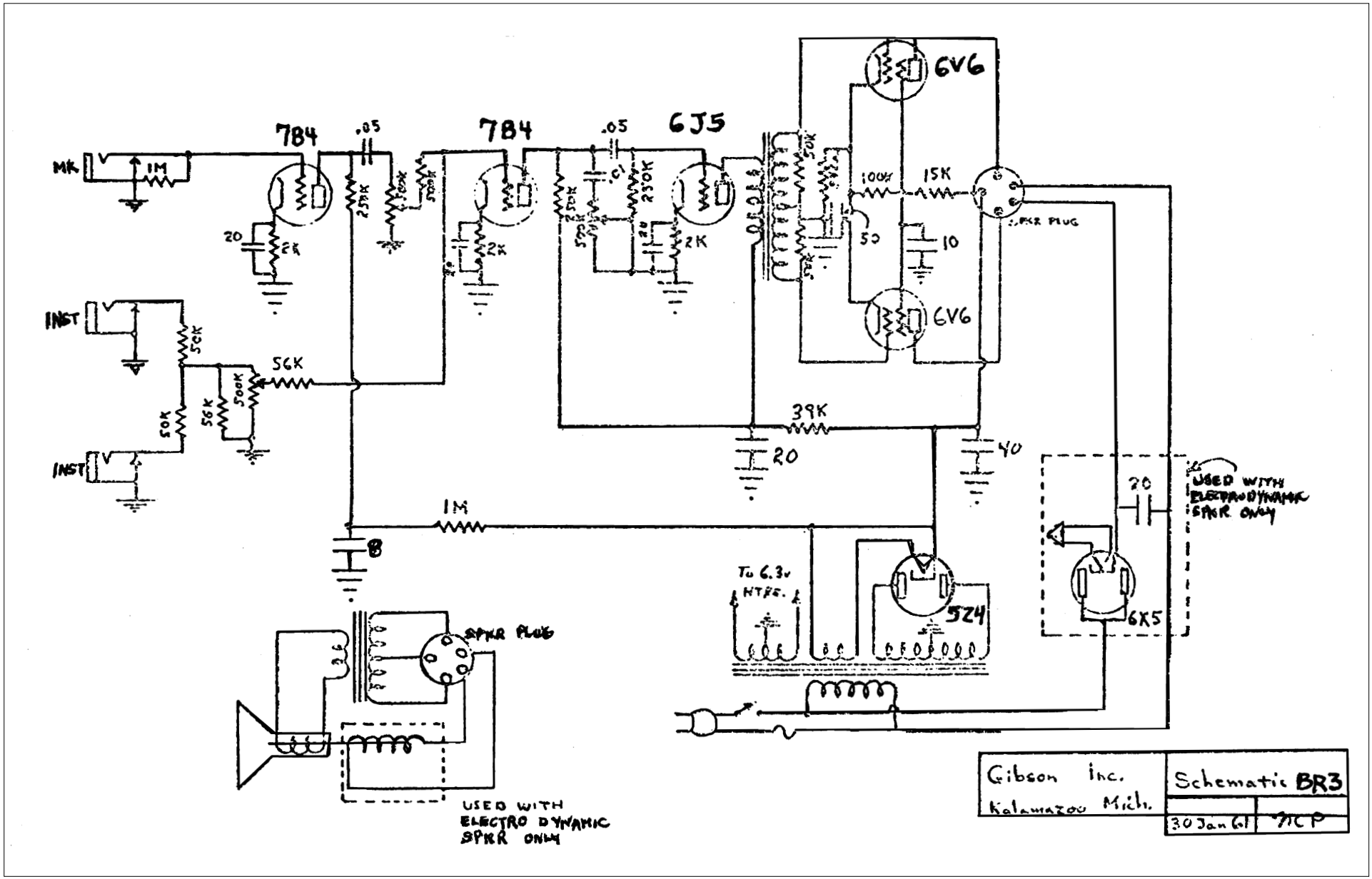


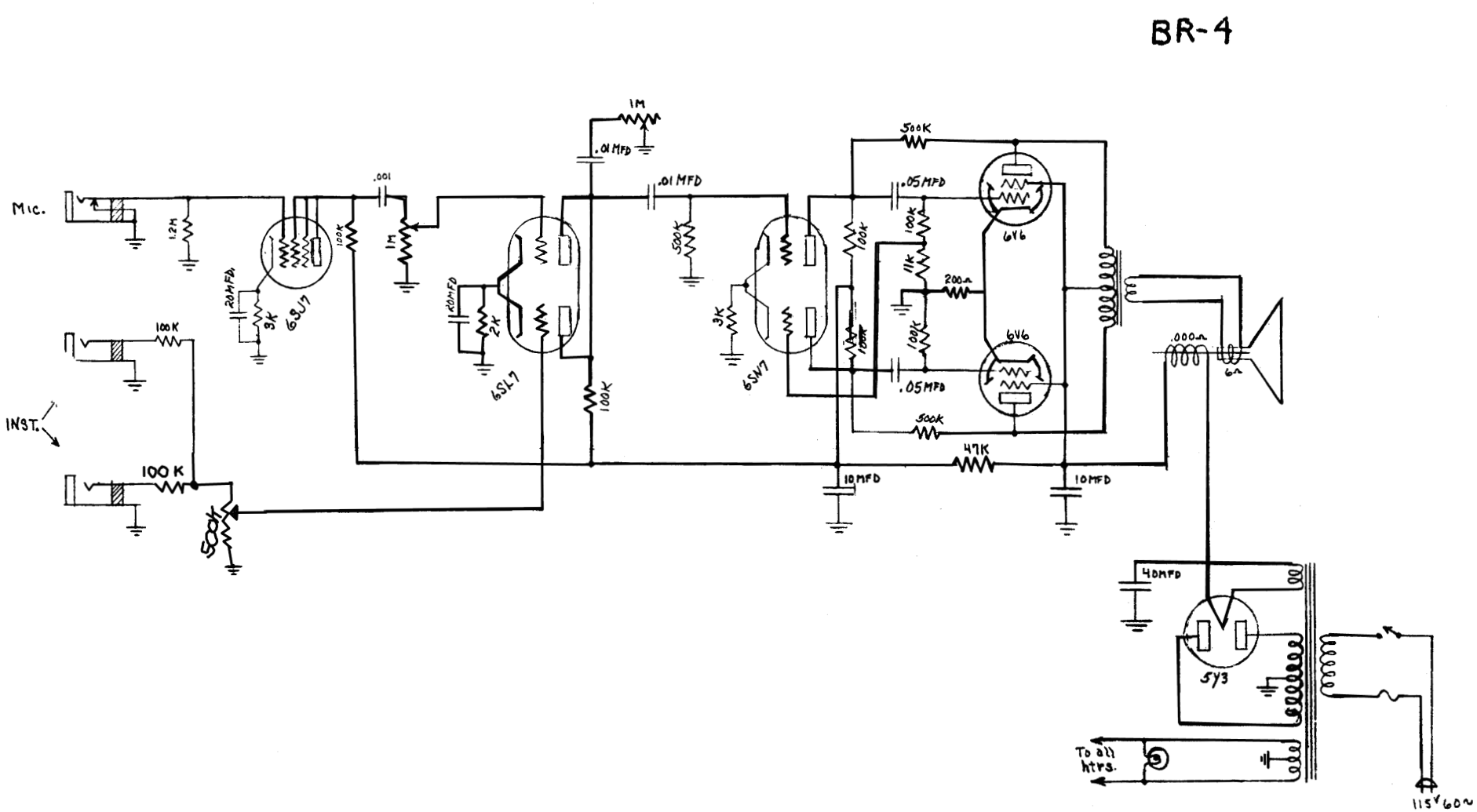
VOLTAGE CHART *

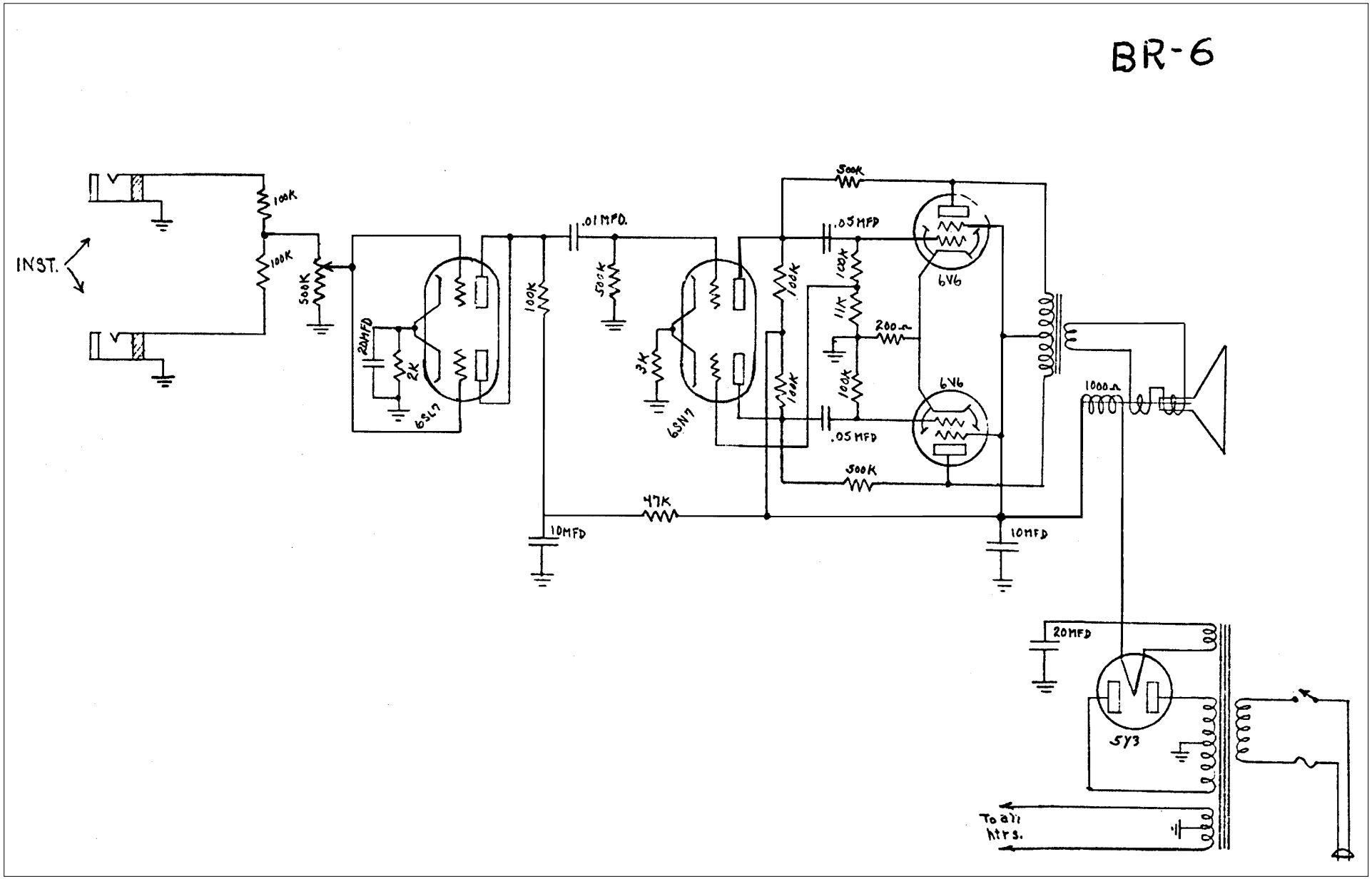
NR.	TYPE	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8	PIN 9	B+
1	6EU7	FIL	FIL	—	1.5	0	170	170	0	1.5	222
2	6EU7	FIL	FIL	—	1.15	0	96	137	0	1.2	222
3	6EU7	FIL	FIL	—	1.2	0	136	155	0	1.25	222
4	12AU7A	145	83	89	FIL	FIL	222	0	8	FIL	235
5	6V6GT	—	FIL	315	290	0	—	FIL	18	—	325
6	6V6GT	GND	FIL	315	290	0	—	FIL	18	—	325
7	5Y3GT	—	FIL	—	320 AC	—	320 AC	—	325	—	—

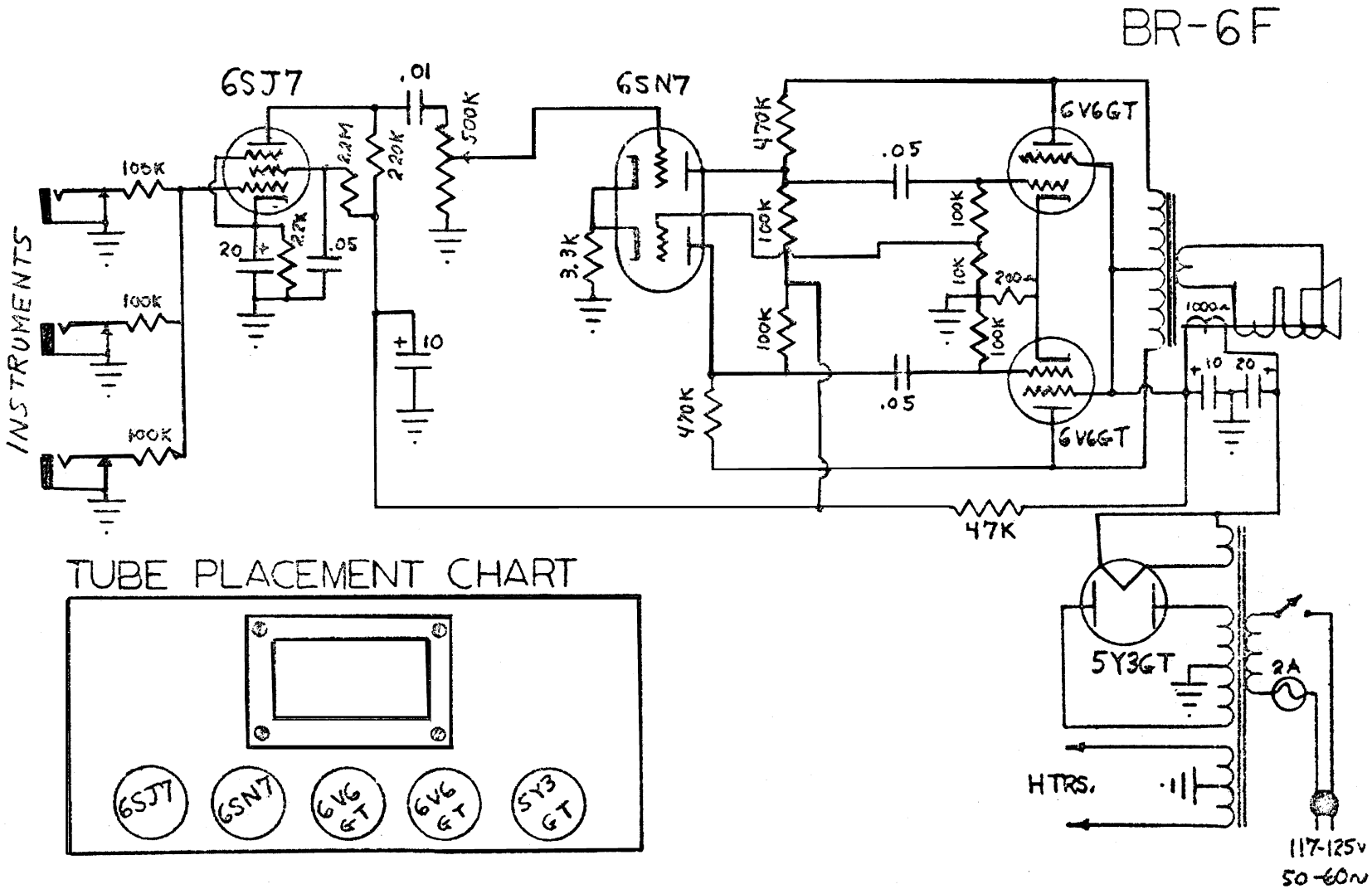
*ALL DC VOLTAGES MEASURED TO CHASSIS WITH 11 MEG./VOLT V.T.V.M.


.02 MFD
1Meg
.0007 MFD
.005 MFD
500K
270K
.05
1Meg
47K
100K
47K
470K
.05MFD
.20MFD
1.5K
470K
.20MFD
1.9K
1K
.0007 MFD.
.001 MFD.
47K
100K
100K
5.8K
120Ω
100K
100K
.05MFD
270K
100K
100K
100K
4.7K
10K
20K
.5MFD
10MFD
20MFD
20MFD
20MFD
To All HTRS.
115V 60~
3AMP
.1MFD.

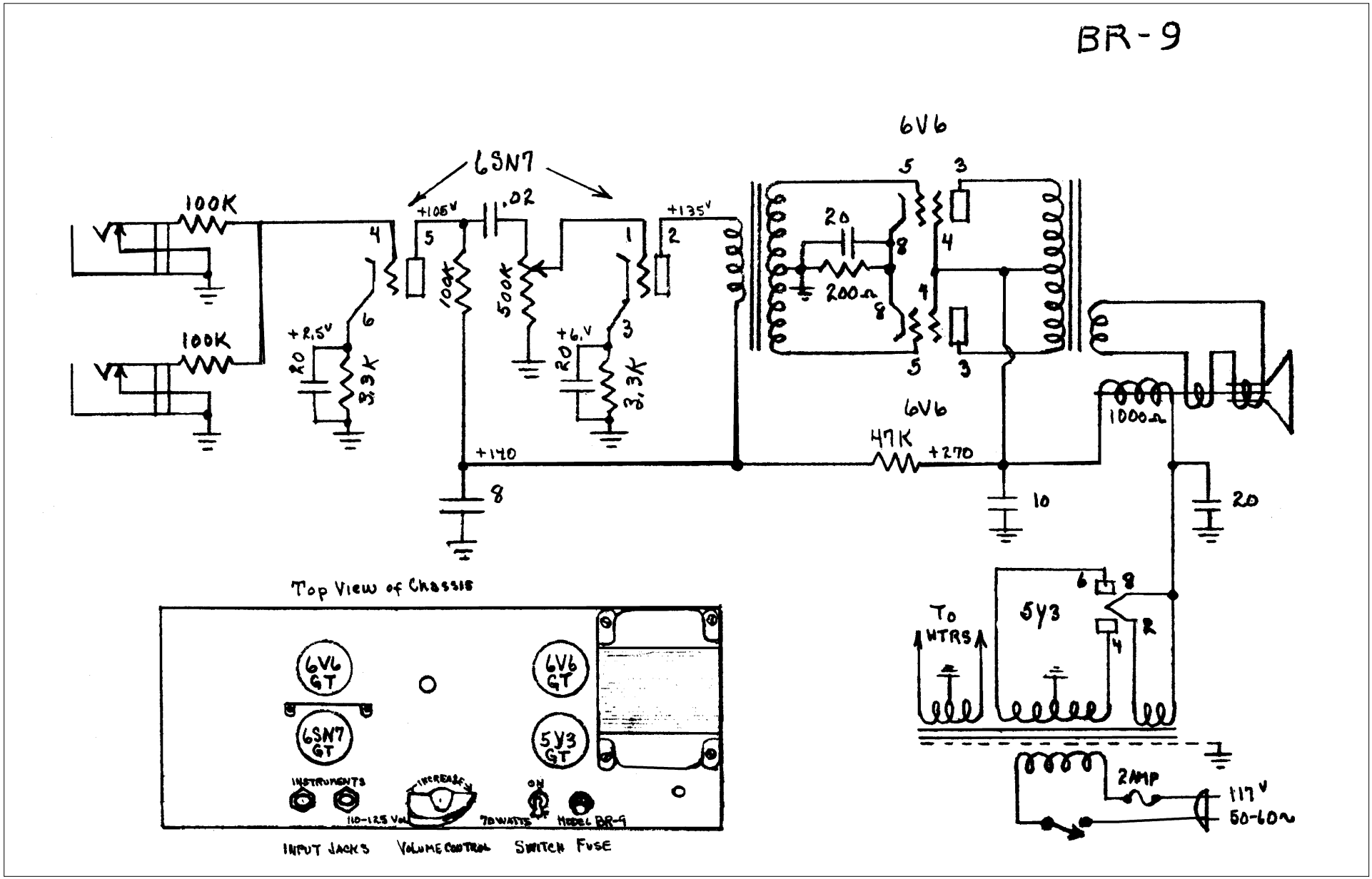

6V6
7B4
.05
7B4
.05
6J5
MK
1M
20
2K
25K
500K
2K
50K
250K
2K
100K
15K
50
10
SPKR PLUG
6V6
INST
50K
56K
500K
50K
56K
500K
INST
56K
39K
20
40
1M
B
20
USED WITH ELECTRODYNAMIC SPKR ONLY
To 6.3v HTRS.
524
6X5
SPKR PLUG
USED WITH ELECTRO DYNAMIC SPKR ONLY
Gibson Inc.
Kalamazoo Mich.
Schematic BR3
30 Jan 61
MCP

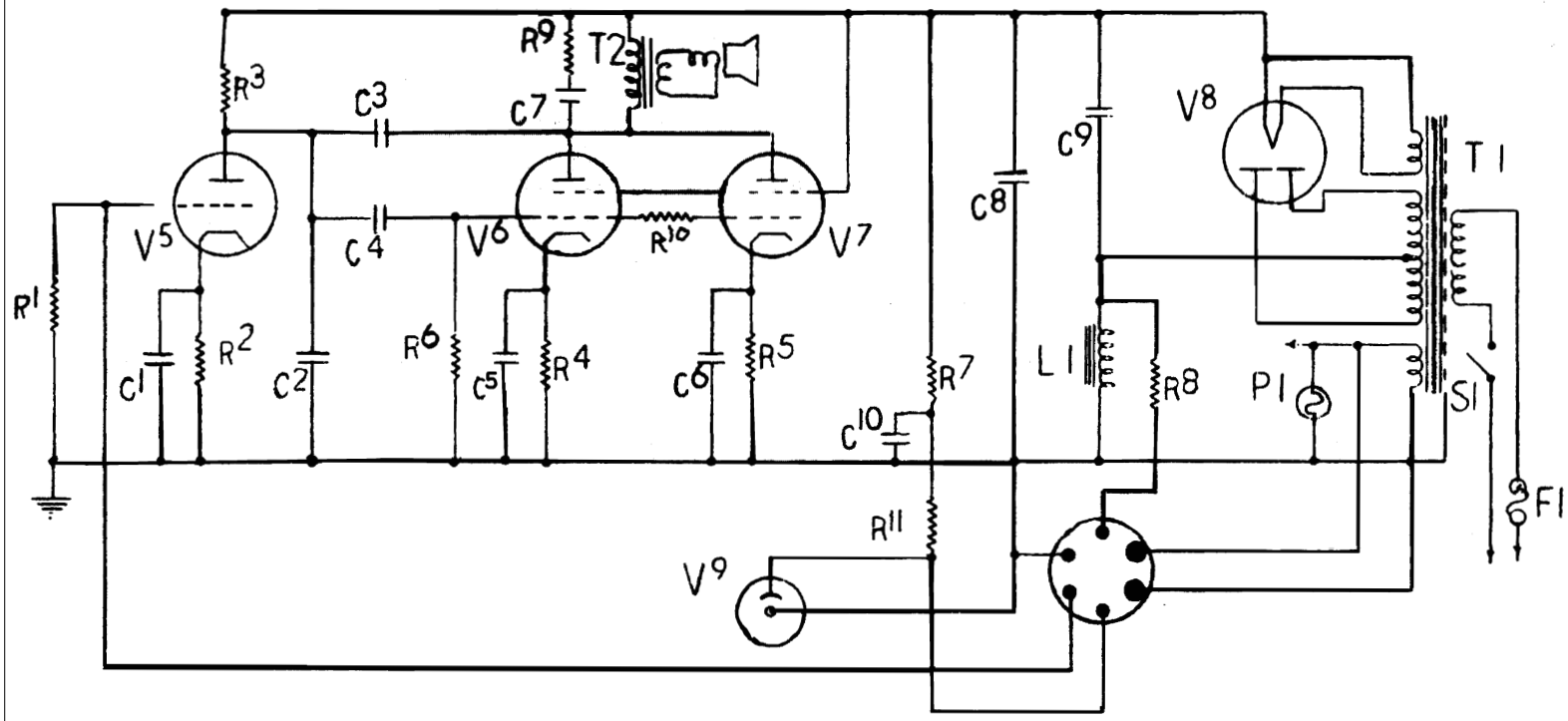

BR-4
Mic.
1.2M
.001
20MFD
9K
6SL7
120K
1M
.01MFD
1M
.01 MFD
500K
.05MFD
6V6
100K
11K
200Ω
100K
100K
6V6
.05MFD
500K
47K
10MFD
10MFD
.000Ω
6Ω
INST.
100K
100 K
500K
40MFD
5Y3
To all htrs.
115V 60~


BR-6
INST.
100K
100K
500K
.02MFD
2K
6SL7
100K
.01MFD.
500K
3K
6SN7
500K
.05MFD
100K
100K
100K
11K
200Ω
6V6
6V6
.05MFD
500K
1000Ω
47K
10MFD
10MFD
20MFD
5Y3
To all htrs.



GIBSON INC.	KALAMAZOO MICH	DATE: 11 OCT 1960	DRAWN BY: MCP	CHECKED BY:


BR-9
6V6
6SN7
100K
100K
+105V
.02
+135V
20
200Ω
+2.5V
20
3.9K
+6.V
20
3.3K
10K
500K
+140
8
6V6
47K
+270
1000Ω
10
20
Top View of Chassis
6V6 GT
6SN7 GT
6V6 GT
5Y3 GT
INSTRUMENTS
INCREASE
110-125 Volts
70 WATTS
MODEL BR-9
INPUT JACKS
VOLUME CONTROL
SWITCH
FUSE
To HTRS
5Y3
2AMP
117V
50-60~



R^1	1. Megohm
R^2	8,200 Ohms
R^3	270K
R^4	620 Ohms
R^5	620 Ohms
R^6	470K
R^7	8,200 Ohms
R^8	2.2 Megohm
R^9	4,700 Ohms
R^{10}	1,000 Ohms
R^{11}	4,700 Ohms
C^1	20MFD. 25V
C^2	.002 MFD. 600V
C^3	50 MMF. 500V
C^4	.1 MFD. 400V
C^5	50MFD. 50V
C^6	50MFD. 50V
C^7	.003MFD. 600V
C^8	20MFD. 450V
C^9	20MFD. 450V
C^{10}	35MFD. 350V
T^1	GA-40-P
T^2	X-3740
L^1	GA-10-C
F^1	2 AMP. TYPE 3AG
P^1	#44 or #47
S^1	SPST SWITCH
V^5	6J5
V^6	6V6G/GT
V^7	6V6G/GT
V^8	5V3G/GT
V^9	0A2

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Constant Martin Patent No. 2,563,477

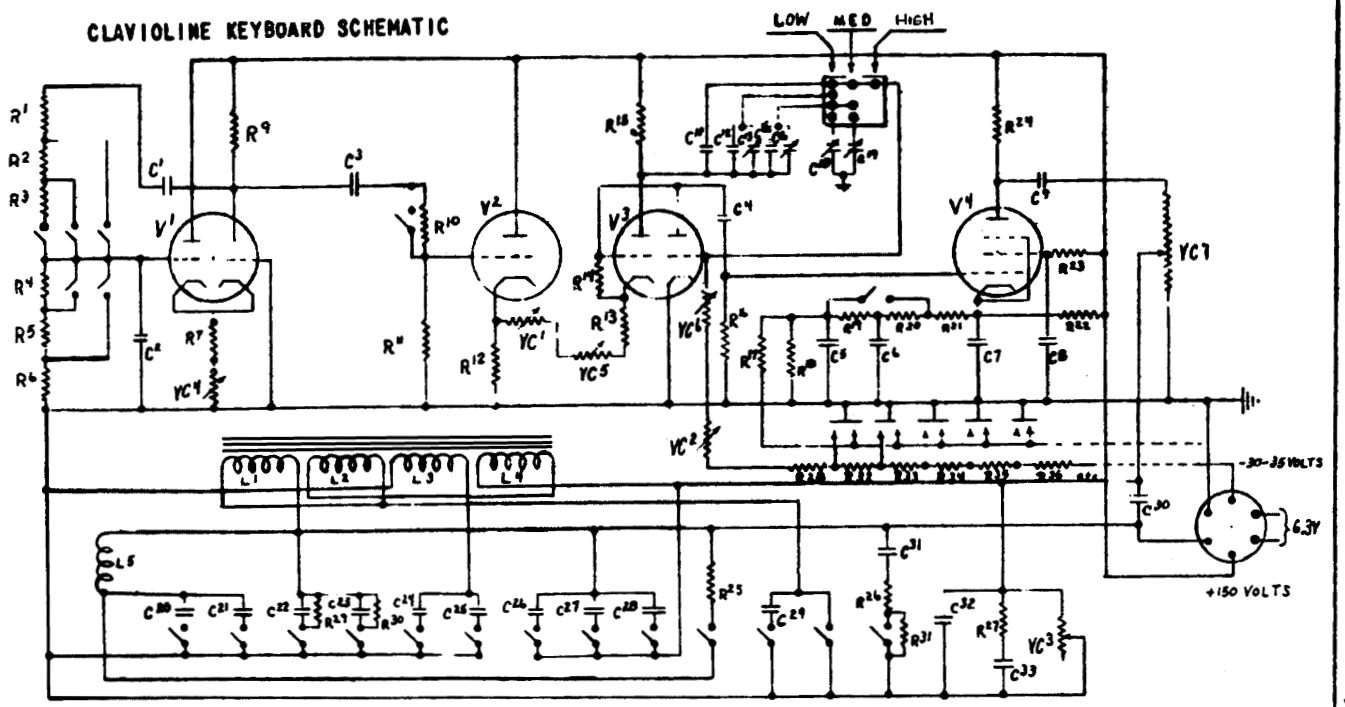
KEYBOARD RESISTORS .5% TOLERANCE

R^{32}	6,300	R^{39}	9,430	R^{46}	14,148	R^{53}	21,200	R^{60}	31,720
R^{33}	6,670	R^{40}	10,000	R^{47}	14,980	R^{54}	22,456	R^{61}	33,316
R^{34}	7,074	R^{41}	10,600	R^{48}	15,860	R^{55}	23,776	R^{62}	35,600
R^{35}	7,490	R^{42}	11,228	R^{49}	16,808	R^{56}	25,200	R^{63}	37,720
R^{36}	7,930	R^{43}	11,888	R^{50}	17,800	R^{57}	26,680	R^{64}	40,000
R^{37}	8,404	R^{44}	12,600	R^{51}	18,860	R^{58}	28,296	R^{65}	42,400
R^{38}	8,900	R^{45}	13,340	R^{52}	20,000	R^{59}	29,960	R^{66}	44,912

VALUES ARE IN OHMS.

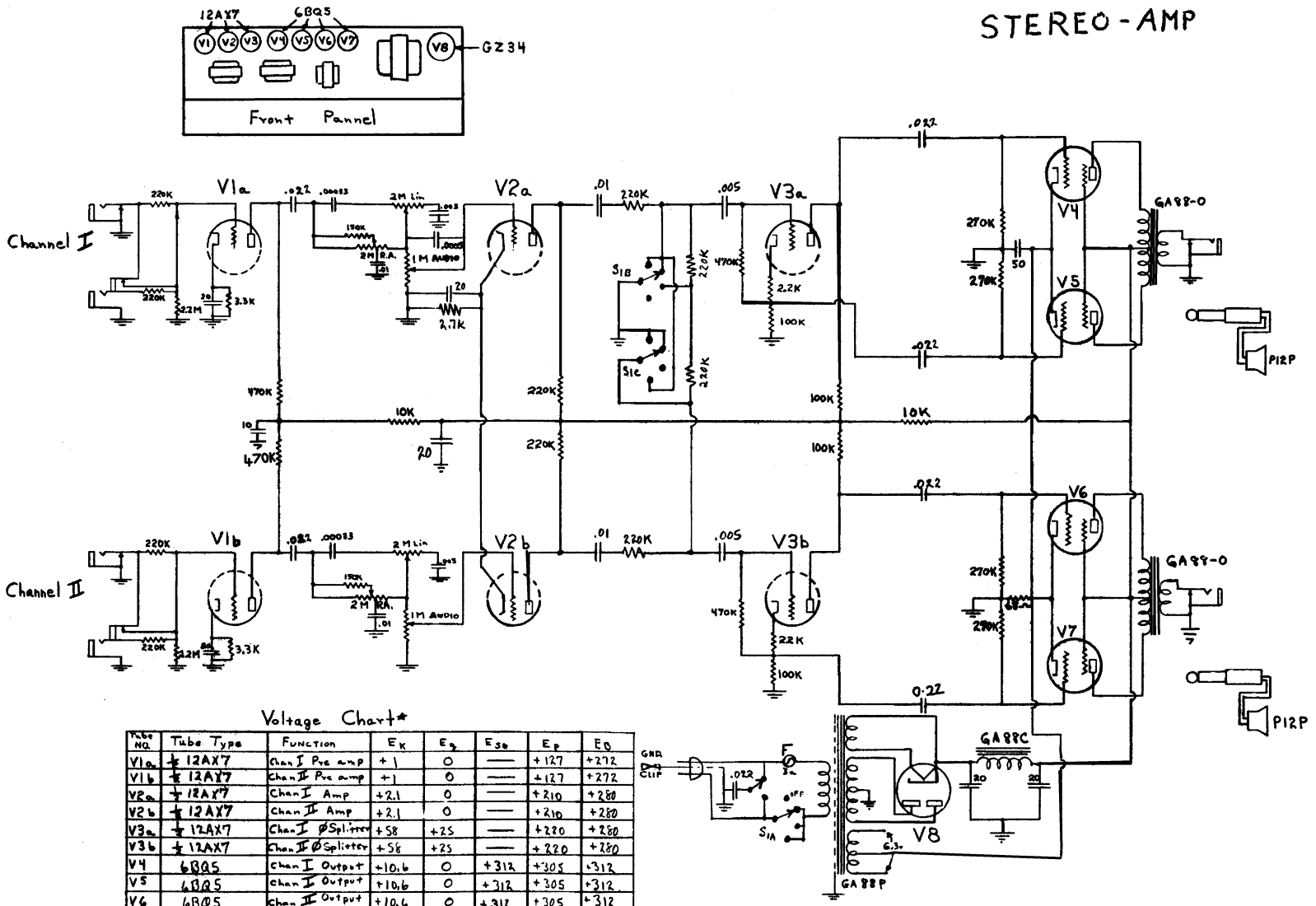
C1	.03	MFD.
C2	.03	MFD.
C3	.25	MFD.
C4	75	MMF.
C5	.1	MFD.
C6	.1	MFD.
C7	.25	MFD.
C8	.05	MFD.
C9	.02	MFD.
C10	2300	MMF.
C11		
C12	8400	MMF.
C13	300	MMF.
C14		
C15	2100	MMF.
C16	300	MMF.
C17		
C18	750	MMF.
C19	250	MMF.
C20	.02	MFD.
C21	.005	MFD.
C22	.005	MFD.
C23	.015	MFD.
C24	.01	MFD.
C25	.05	MFD.
C26	200	MMF.
C27	.005	MFD.
C28	.015	MFD.
C29	.02	MFD.
C30	100	MMF.
C31	1	MFD.
C32	.001	MFD.
C33	.05	MFD.
V^1	6SN7GT	
V^2	6J5	
V^3	6SN7GT	
V^4	6J7	

CLAVIOLINE KEYBOARD SCHEMATIC



R^1	750K
R^2	120K
R^3	200K
R^4	200K
R^5	120K
R^6	750K
R^7	5.1K
R^8	
R^9	22K
R^{10}	1.5 Megohm
R^{11}	510K
R^{12}	3.9K
R^{13}	25K
R^{14}	8.5K
R^{15}	20K
R^{16}	2.2 Megohm
R^{17}	1K
R^{18}	510K
R^{19}	51K
R^{20}	2.4K
R^{21}	5.1K
R^{22}	510K
R^{23}	1. Megohm
R^{24}	56K
R^{25}	10K
R^{26}	5.1K
R^{27}	20K
R^{28}	60-62K
R^{29}	240K
R^{30}	120K
R^{31}	3 Megohm
L1-4	Tone Choke
$L5_1$	" "
VC^2	10K Pot. W.W.
VC^3	10K " "
VC^4	Special
VC^5	5K Pot.
VC^6	5K Pot. W.W.
VC^7	10K " "
	250K Pot.

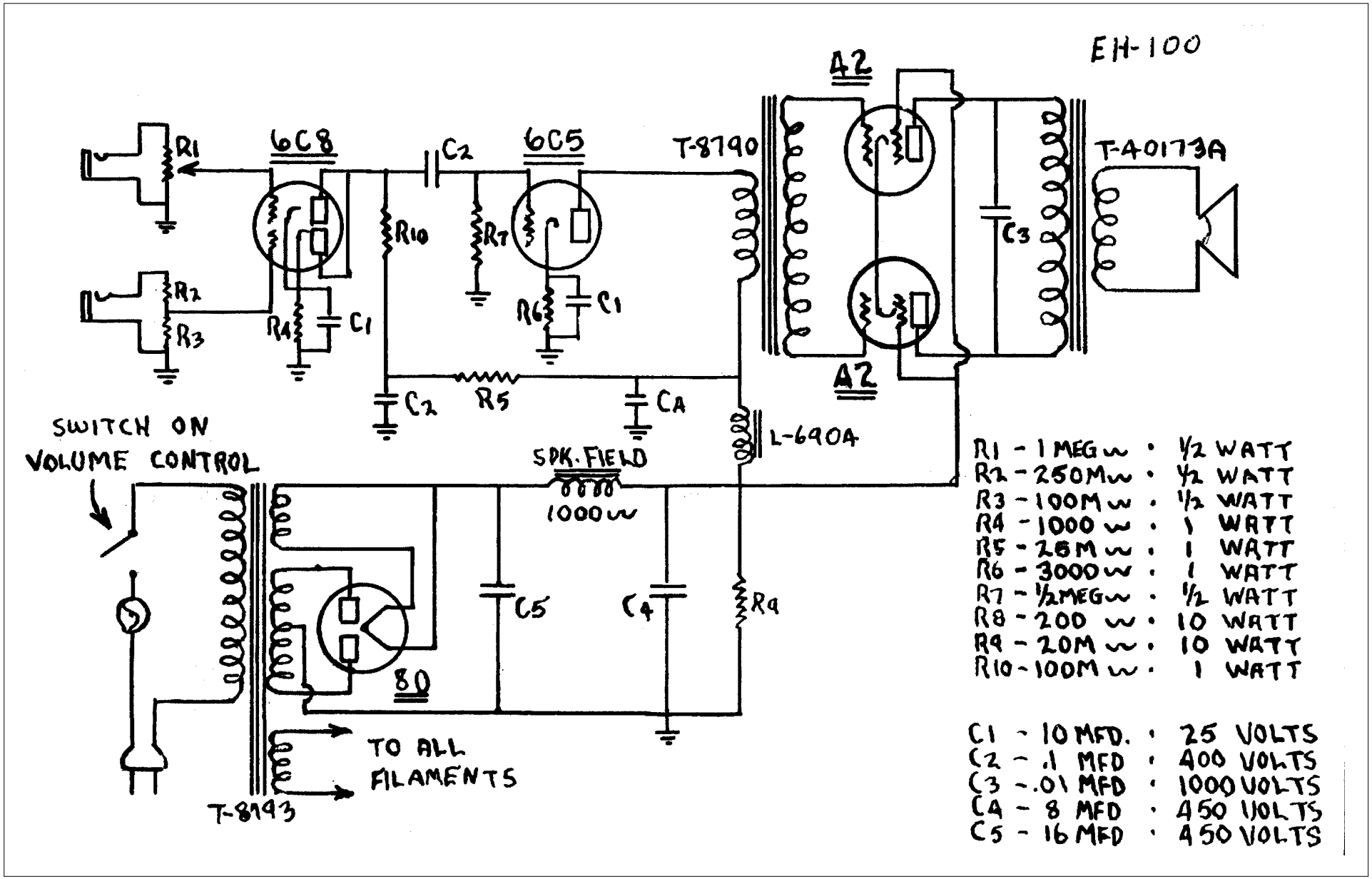
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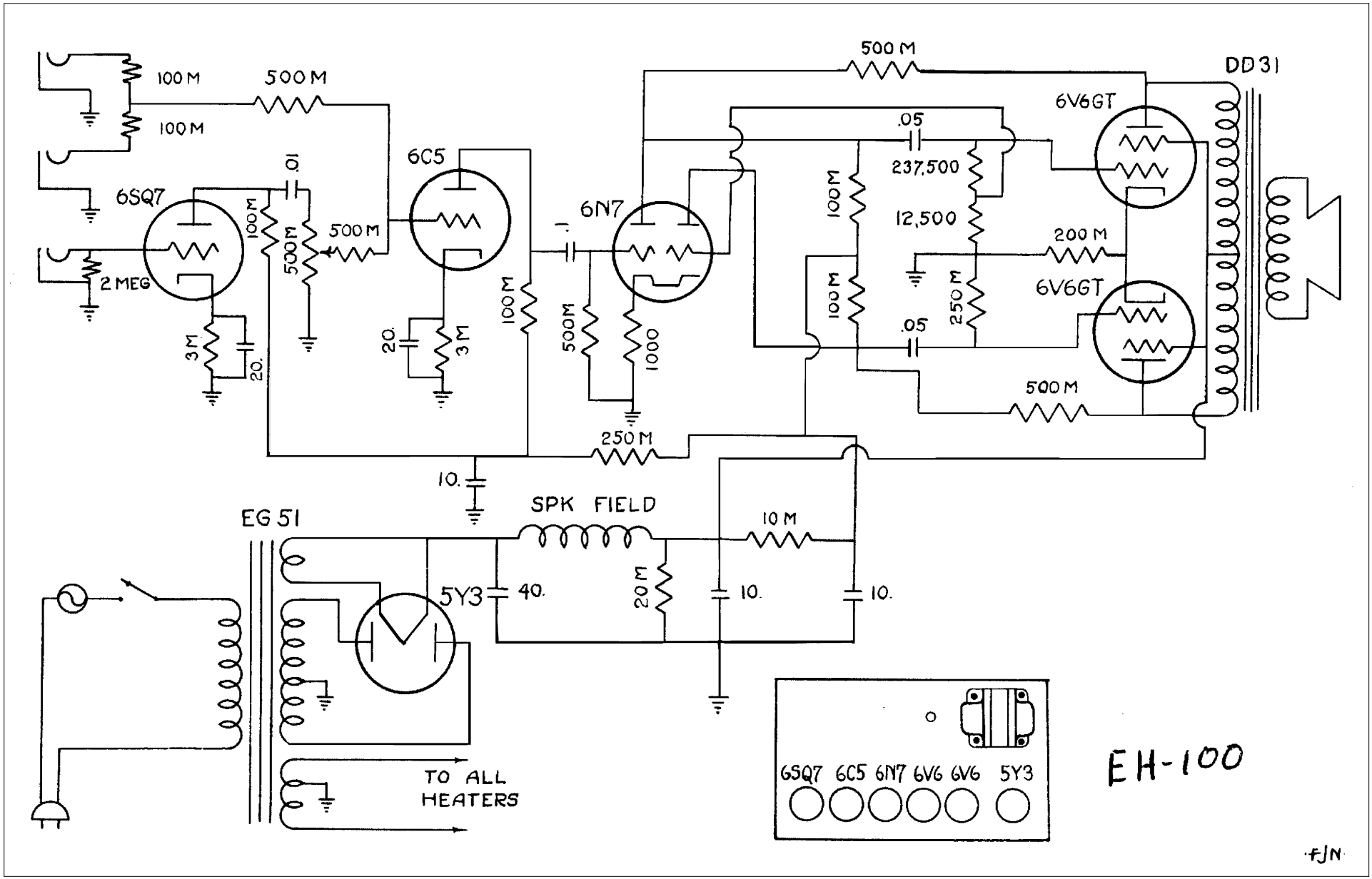


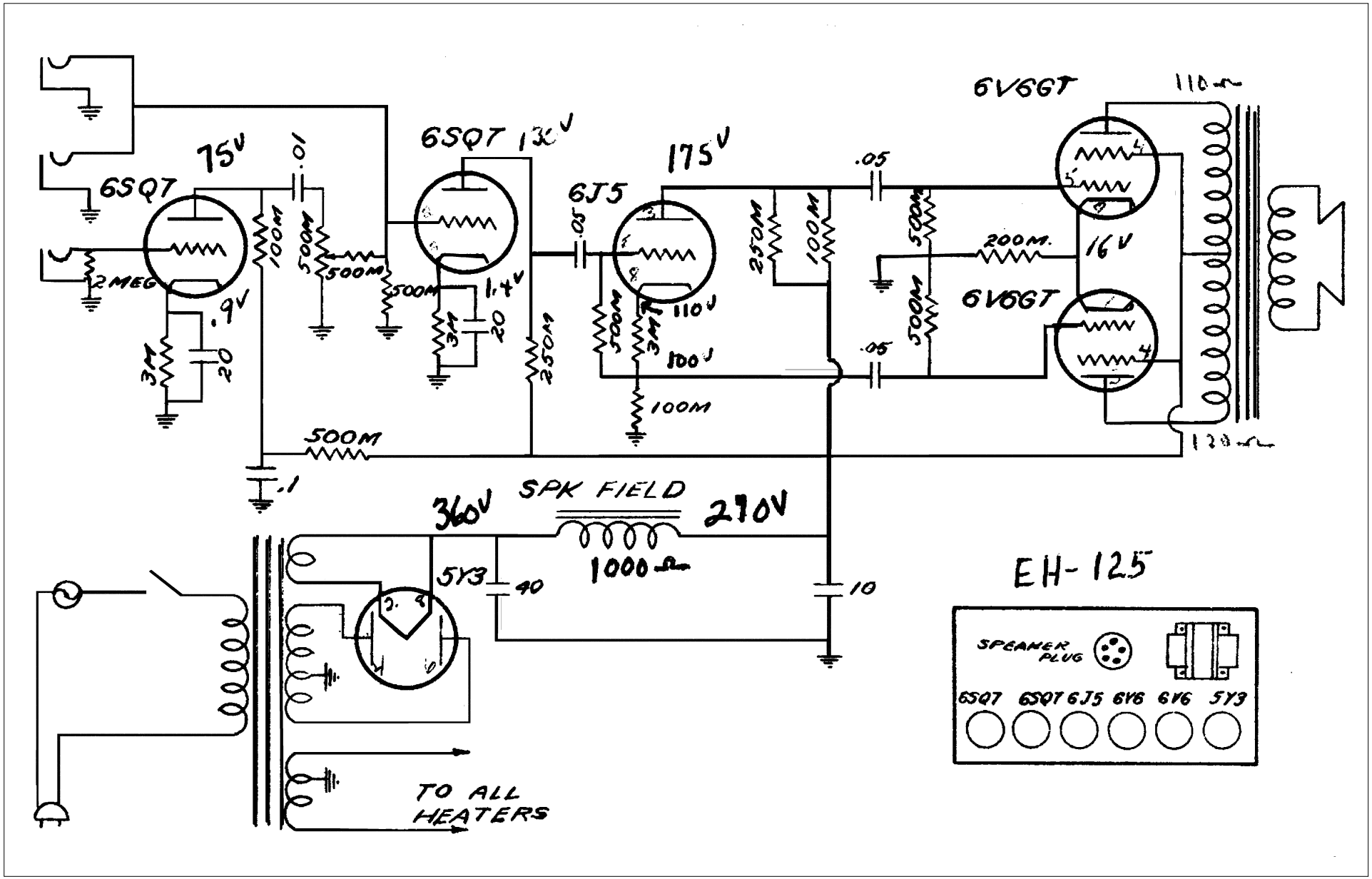
Voltage Chart*

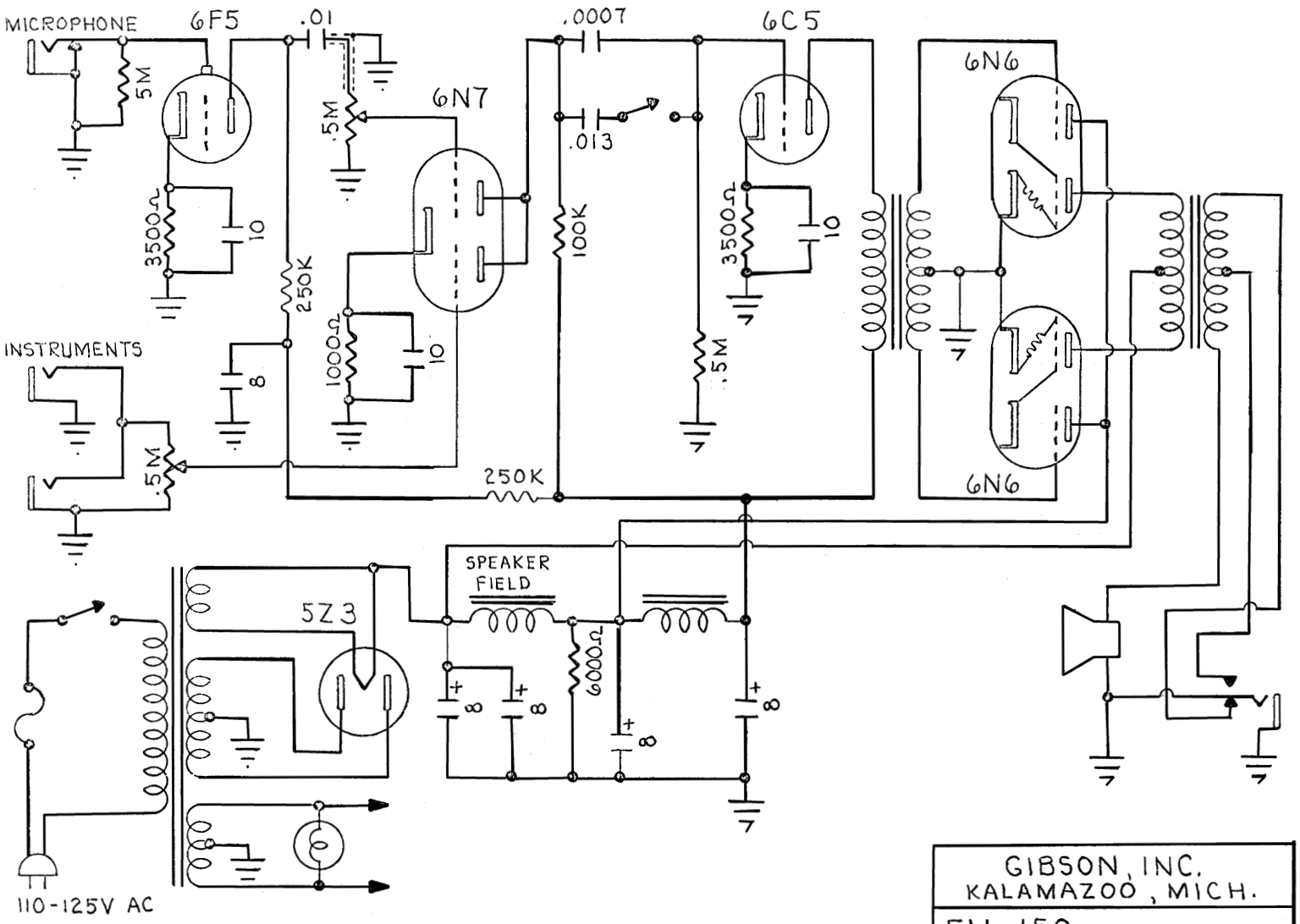
Tube No.	Tube Type	Function	E_K	E_{g_2}	E_{g_3}	E_P	E_0
V1a	½ 12AX7	Chan I Pre amp	+1	0	—	+127	+272
V1b	½ 12AX7	Chan II Pre amp	+1	0	—	+127	+272
V2a	½ 12AX7	Chan I Amp	+2.1	0	—	+210	+280
V2b	½ 12AX7	Chan II Amp	+2.1	0	—	+210	+280
V3a	½ 12AX7	Chan I ØSplitter	+58	+25	—	+220	+280
V3b	½ 12AX7	Chan II ØSplitter	+58	+25	—	+220	+280
V4	6BQ5	Chan I Output	+10.6	0	+312	+305	+312
V5	6BQ5	Chan I Output	+10.6	0	+312	+305	+312
V6	6BQ5	Chan II Output	+10.6	0	+312	+305	+312
V7	6BQ5	Chan II Output	+10.6	0	+312	+305	+312
V8	GZ34	Rect.	+320	—	—	310	310	—

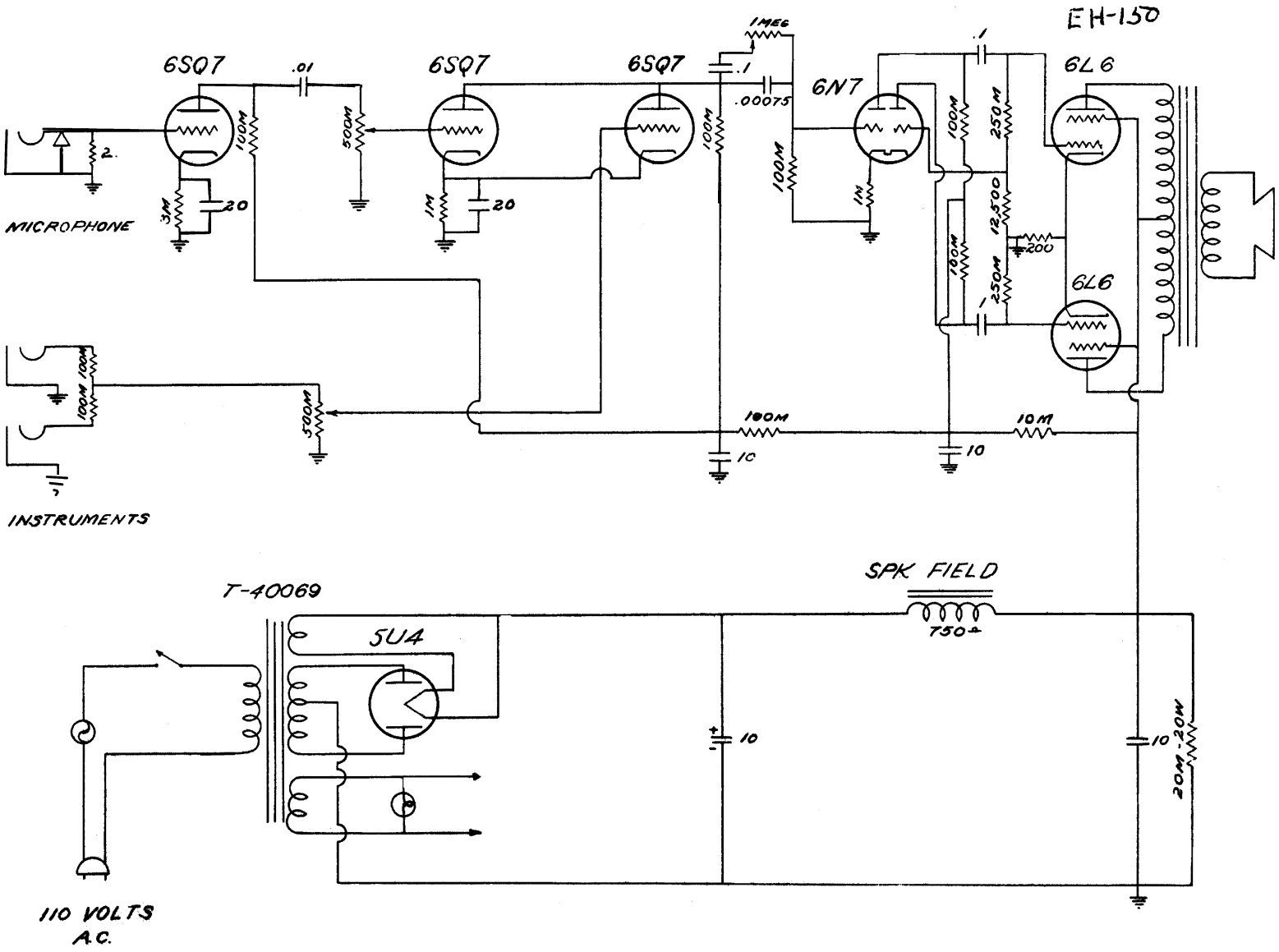
* VOLTGES TO CHASSIS WITH 20,000Ω/V METER

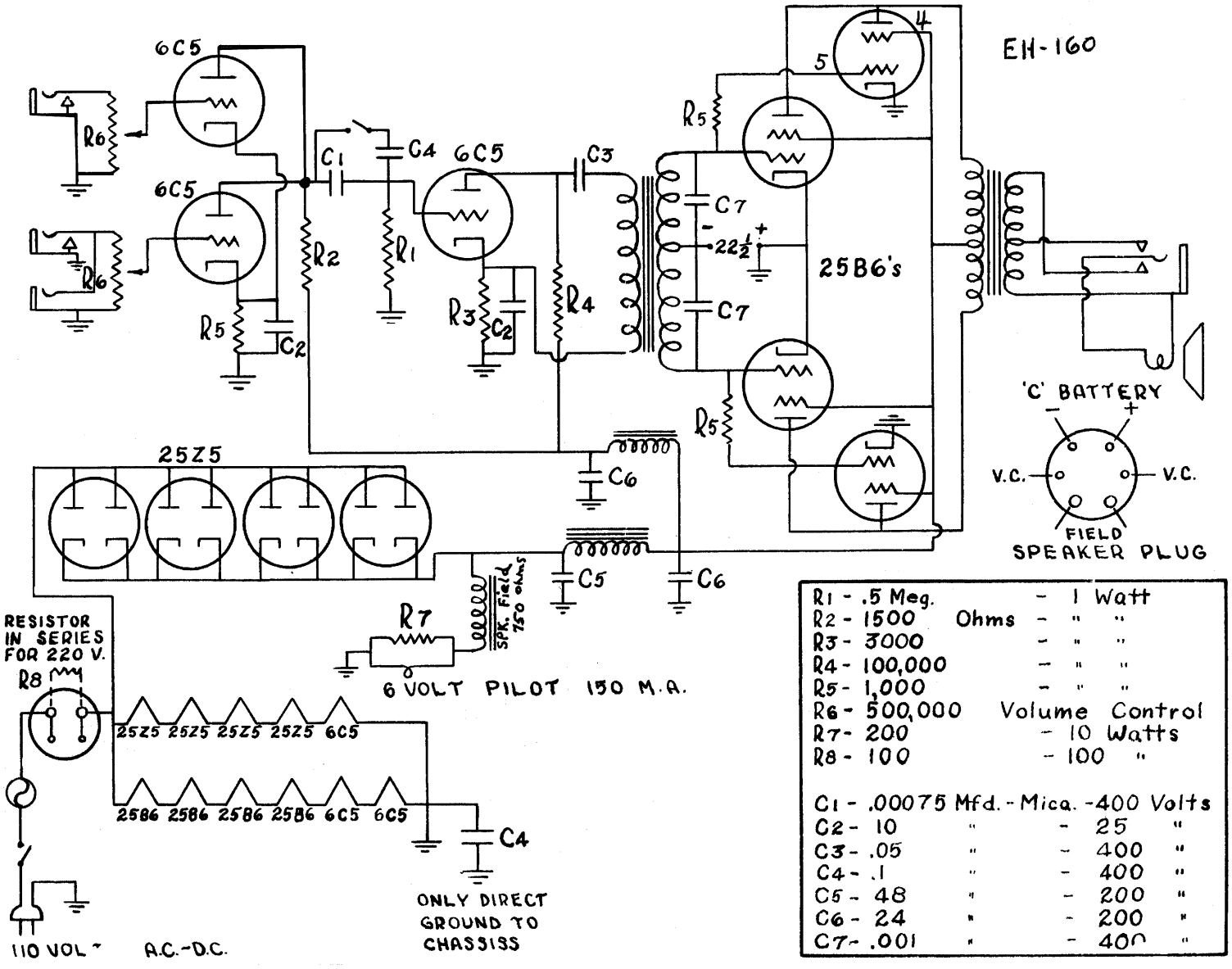

EH-100
A2
6C8
6C5
T-8790
T-40173A
R1
R2
R3
R4
R5
R6
R7
R10
C1
C2
C3
C4
C5
C2
A2
SWITCH ON
VOLUME CONTROL
SPK. FIELD
1000 ω
L-690A
80
TO ALL
FILAMENTS
T-8193
R1 - 1 MEG ω · 1/2 WATT
R2 - 250M ω · 1/2 WATT
R3 - 100M ω · 1/2 WATT
R4 - 1000 ω · 1 WATT
R5 - 25M ω · 1 WATT
R6 - 3000 ω · 1 WATT
R7 - 1/2 MEG ω · 1/2 WATT
R8 - 200 ω · 10 WATT
R9 - 20M ω · 10 WATT
R10 - 100M ω · 1 WATT
C1 - 10 MFD. · 25 VOLTS
C2 - .1 MFD · 400 VOLTS
C3 - .01 MFD · 1000 VOLTS
C4 - 8 MFD · 450 VOLTS
C5 - 16 MFD · 450 VOLTS


100 M
100 M
500 M
6SQ7
.01
100 M
500 M
500 M
6C5
6N7
2 MEG
3 M
20.
20.
3 M
100 M
500 M
1000
500 M
DD31
6V6GT
.05
237,500
12,500
100 M
100 M
250 M
.05
200 M
6V6GT
500 M
250 M
10.
SPK FIELD
EG 51
10 M
5Y3
40.
20 M
10.
10.
TO ALL
HEATERS
6SQ7 6C5 6N7 6V6 6V6 5Y3
EH-100
FJN

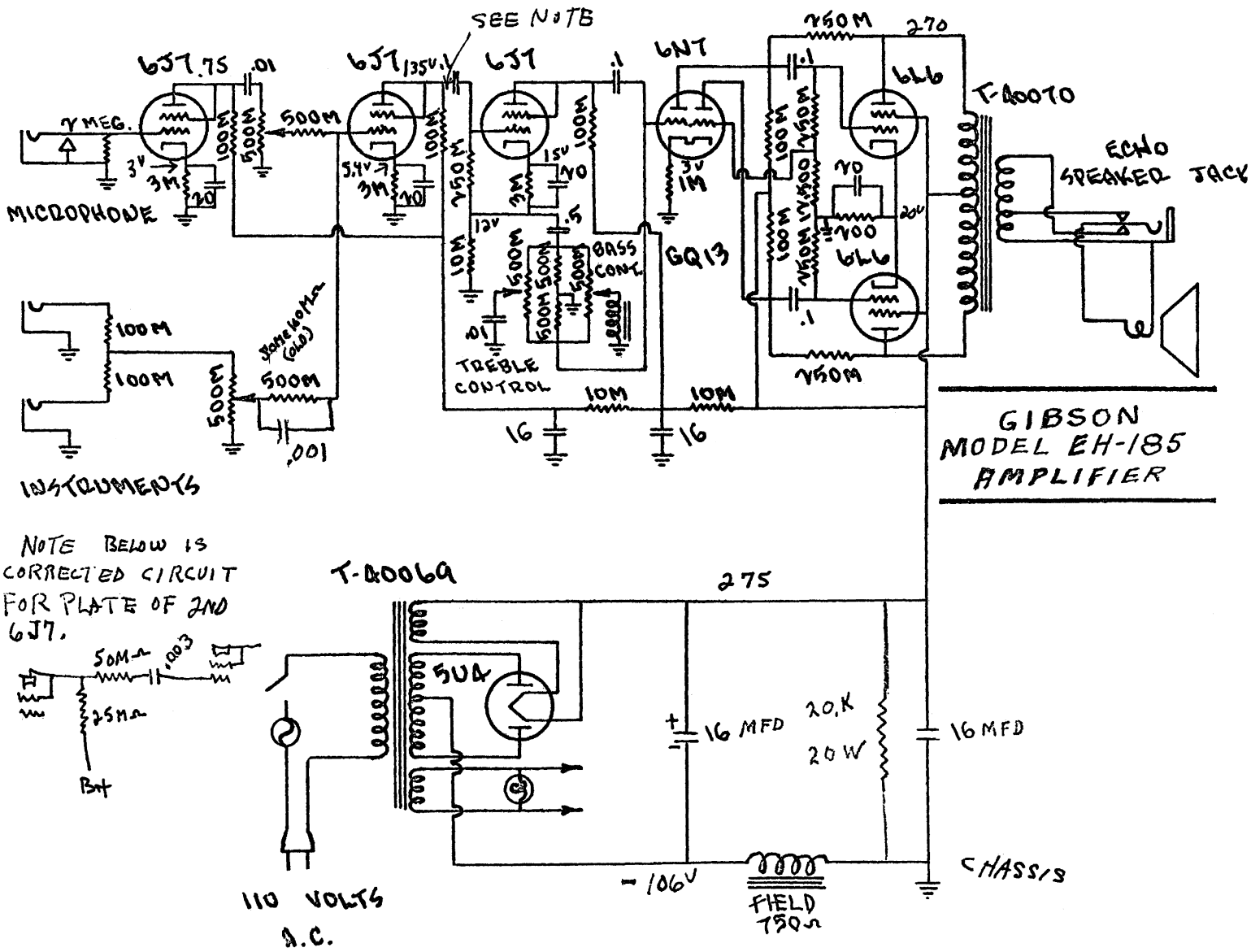

6SQT
75V
.01
100M
500M
500M
500M
6SQT 130V
1.4V
3M
20
250M
6J5
.05
175V
500M
3M
110V
100V
100M
250M
100M
.05
500M
200M.
16V
6V6GT
6V6GT
110
120
2MEG
.9V
3M
20
500M
.1
360V
SPK FIELD
270V
1000Ω
5Y3
40
10
TO ALL
HEATERS
EH-125
SPEAKER PLUG
6SQT 6SQT 6J5 6V6 6V6 5Y3

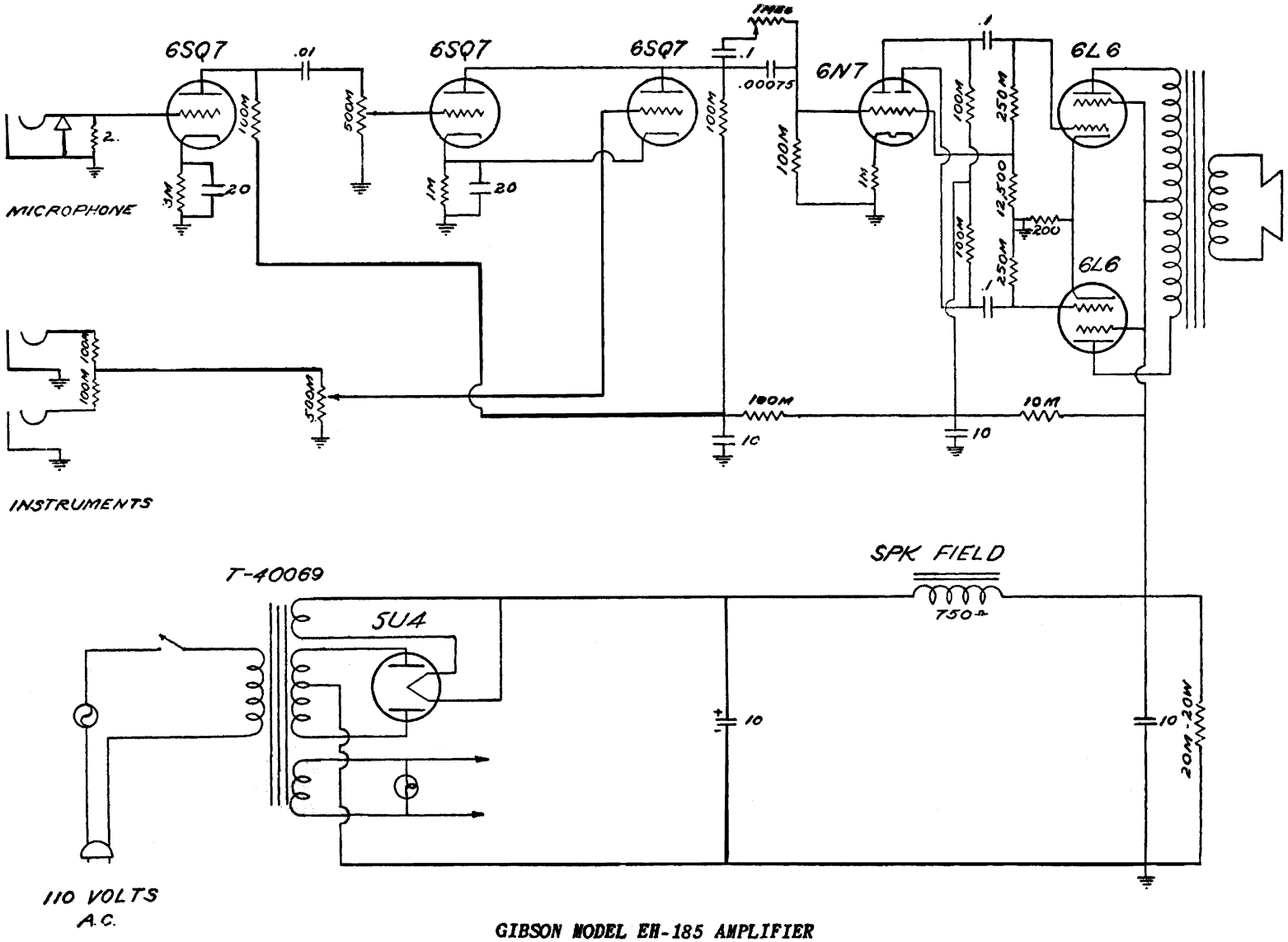

MICROPHONE
6F5
.01
.0007
6C5
6N6
6N7
.013
5M
.5M
3500Ω
10
250K
100K
1000Ω
8
INSTRUMENTS
.5M
250K
6N6
SPEAKER
FIELD
5Z3
6000Ω
8
8
8
8
110-125V AC
GIBSON, INC.
KALAMAZOO, MICH.
EH-150


EH-150
6SQ7
6SQ7
6SQ7
6N7
6L6
6L6
.01
.1
.00075
1MEG
.1
MICROPHONE
INSTRUMENTS
100M
500M
1M
20
2.
3M
250M
12,500
200
10M
10
T-40069
5U4
SPK FIELD
750Ω
20M-20W
110 VOLTS
A.C.

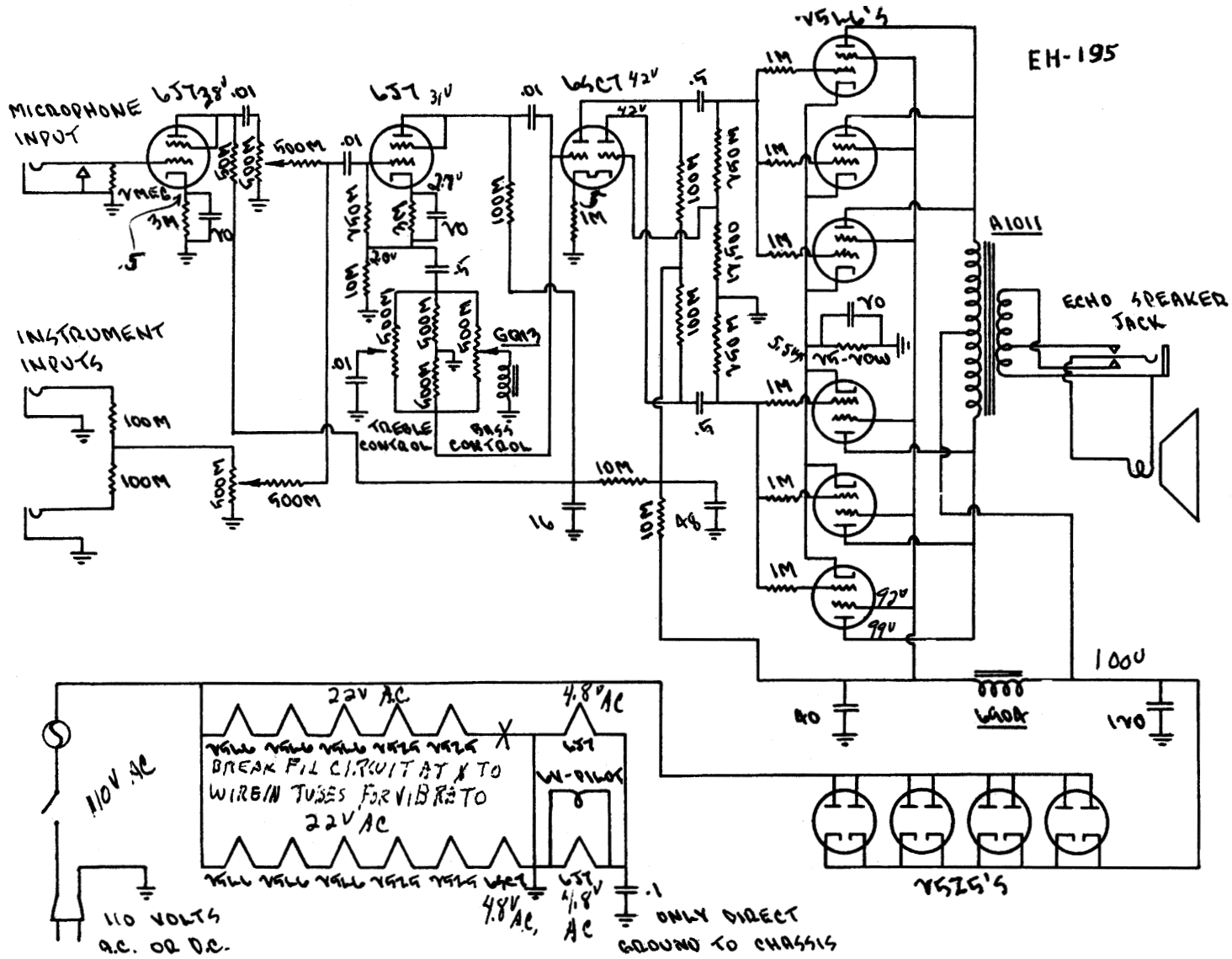


R1 - .5 Meg.		- 1 Watt	
R2 - 1500	Ohms	- "	"
R3 - 3000		- "	"
R4 - 100,000		- "	"
R5 - 1,000		- "	"
R6 - 500,000		Volume Control	
R7 - 200		- 10 Watts	
R8 - 100		- 100 "	
C1 - .00075	Mfd.	- Mica.	-400 Volts
C2 - 10	"	- 25	"
C3 - .05	"	- 400	"
C4 - .1	"	- 400	"
C5 - 48	"	- 200	"
C6 - 24	"	- 200	"
C7 - .001	"	- 400	"


SEE NOTE
6J7
6J7
6NT
6L6
6L6
T-A0070
ECHO SPEAKER JACK
MICROPHONE
INSTRUMENTS
TREBLE CONTROL
BASS CONT.
GQ13
GIBSON
MODEL EH-185
AMPLIFIER
NOTE BELOW IS CORRECTED CIRCUIT FOR PLATE OF 2ND 6J7.
T-A0069
5U4
16 MFD
20K
20 W
16 MFD
110 VOLTS
A.C.
-106V
FIELD
CHASSIS



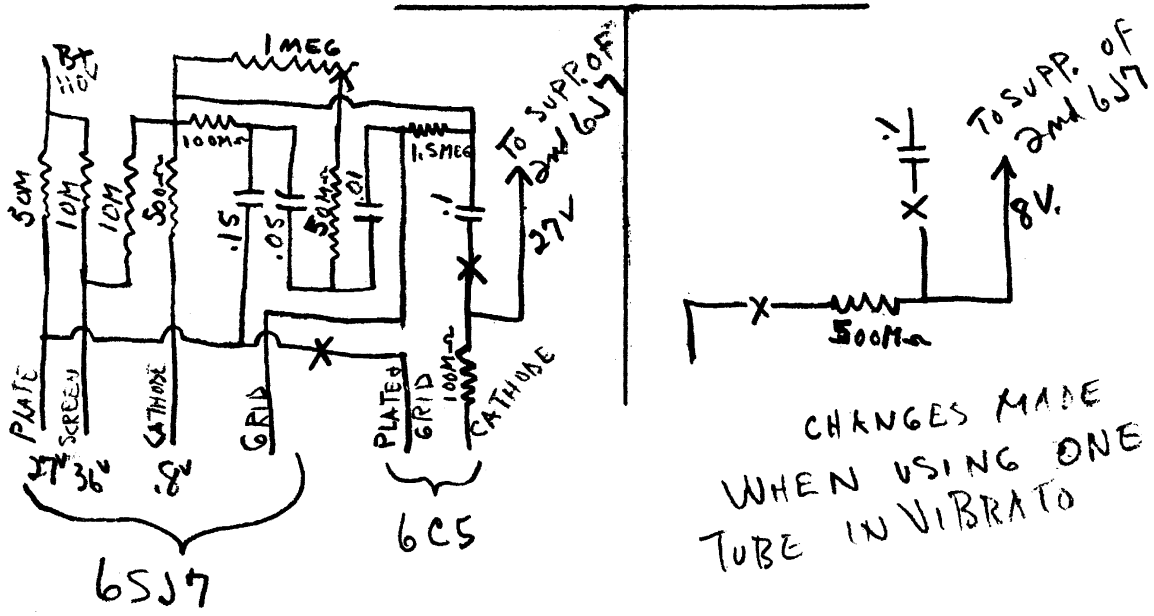
GIBSON MODEL EH-185 AMPLIFIER


EH-195
MICROPHONE INPUT
INSTRUMENT INPUTS
6J7 3V
6SCT 42V
VGL6's
A1011
ECHO SPEAKER JACK
TREBLE CONTROL
BASS CONTROL
110V AC
22V A.C.
4.8V AC
BREAK FIL CIRCUIT AT X TO WIRE IN TUBES FOR VIBRATO
22V AC
4.8V AC,
110 VOLTS A.C. OR D.C.
ONLY DIRECT GROUND TO CHASSIS
VGZG's
100V

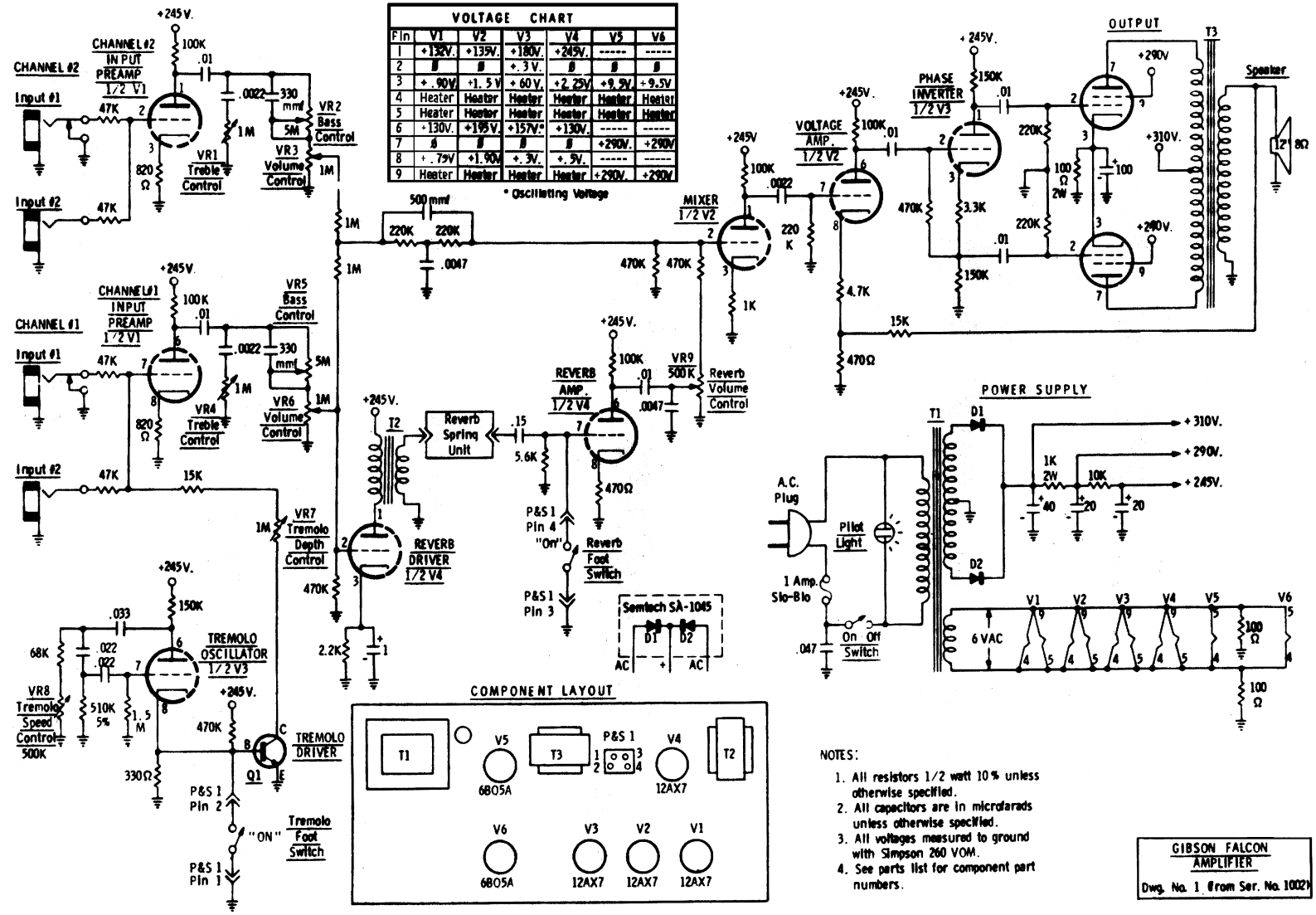
GIBSON

A.C. - D.C. AMPLIFIER
EH 195

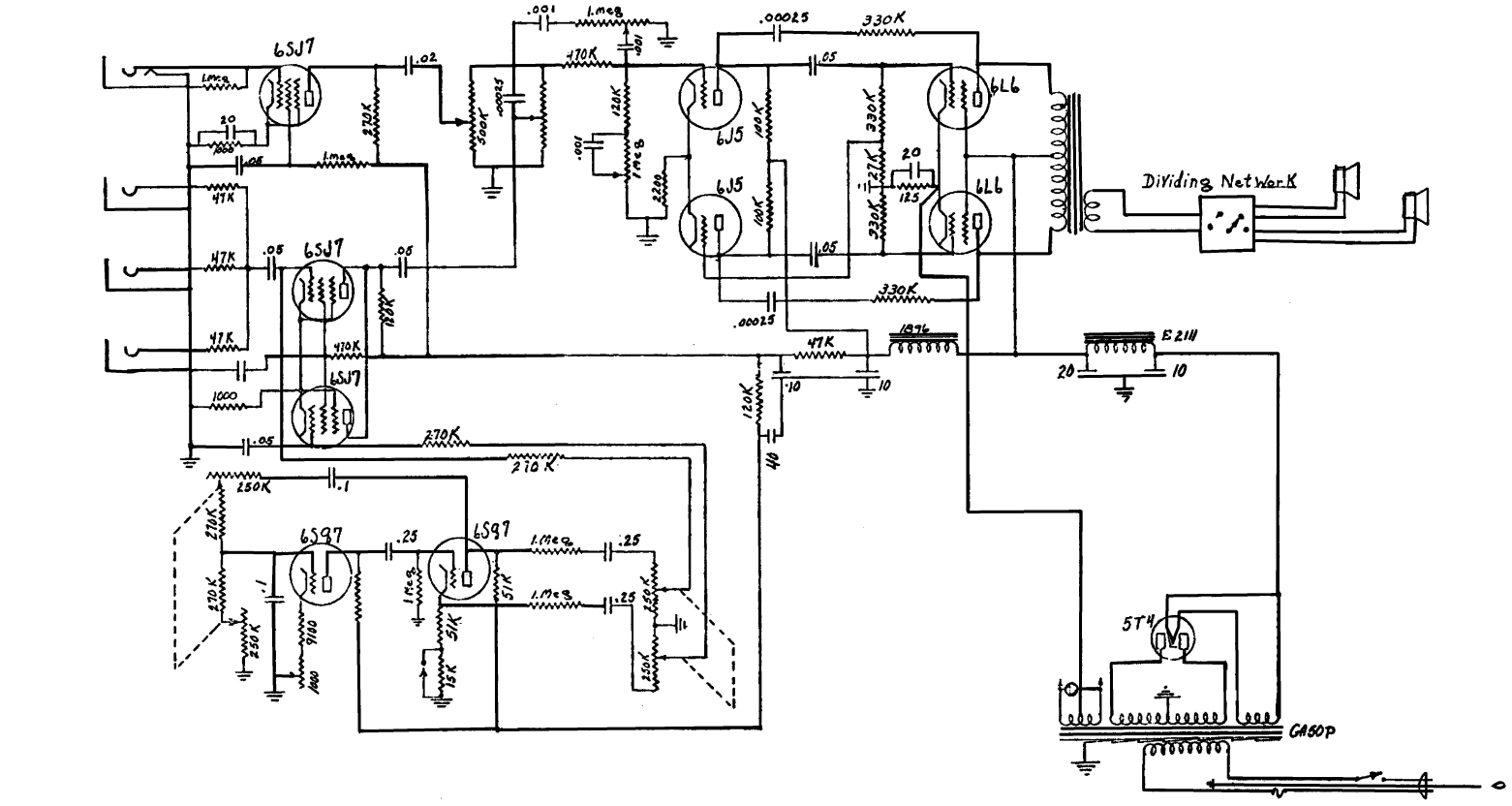
INSTRUCTIONS

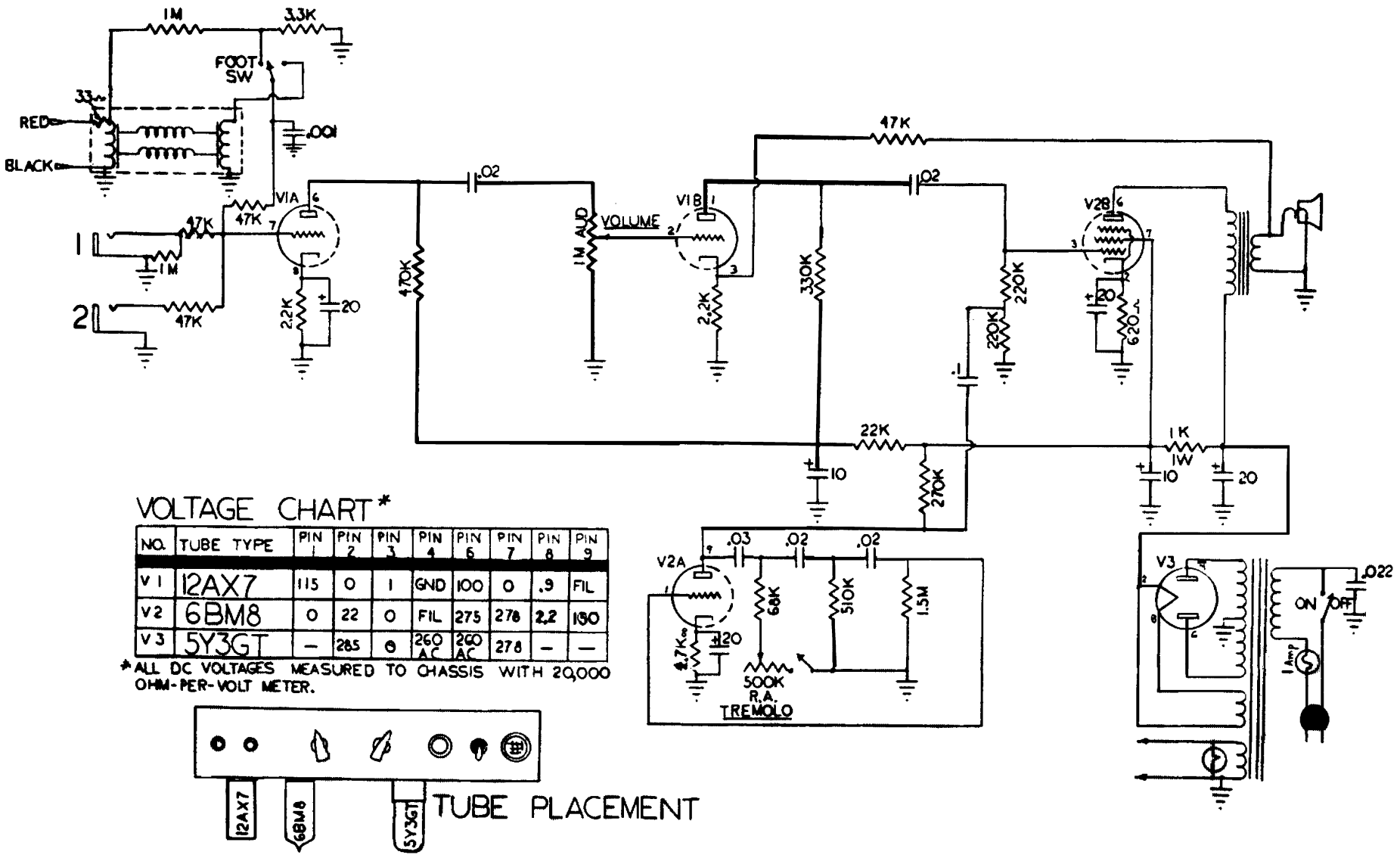


GIBSON INC., KALAMAZOO, MICH.


VOLTAGE CHART
Pin V1 V2 V3 V4 V5 V6
1 +132V. +135V. +180V. +245V. ----- -----
2 # # +.3V. # # #
3 +.90V. +1.5V. +60V. +2.25V. +9.5V. +9.5V.
4 Heater Heater Heater Heater Heater Heater
5 Heater Heater Heater Heater Heater Heater
6 +130V. +195V. +157V.* +130V. ----- -----
7 # # # # +290V. +290V.
8 +.79V +1.90V +.3V. +.5V. ----- -----
9 Heater Heater Heater Heater +290V. +290V.
* Oscillating Voltage
CHANNEL #2 INPUT PREAMP 1/2 V1
CHANNEL #1 INPUT PREAMP 1/2 V1
VOLTAGE AMP. 1/2 V2
MIXER 1/2 V2
PHASE INVERTER 1/2 V3
TREMOLO OSCILLATOR 1/2 V3
REVERB AMP. 1/2 V4
REVERB DRIVER 1/2 V4
OUTPUT
POWER SUPPLY
COMPONENT LAYOUT
NOTES:
1. All resistors 1/2 watt 10% unless otherwise specified.
2. All capacitors are in microfarads unless otherwise specified.
3. All voltages measured to ground with Simpson 260 VOM.
4. See parts list for component part numbers.
GIBSON FALCON AMPLIFIER
Dwg. No. 1 (from Ser. No. 10021)

GA- CUSTOM


6SJ7
6SJ7
6SJ7
6J5
6J5
6L6
6L6
6S97
6S97
5T4
Dividing Network
E211
GA50P
5T4
6J5
6S97
6S97
6L6
6L6
6J5
6SJ7
6SJ7
6SJ7

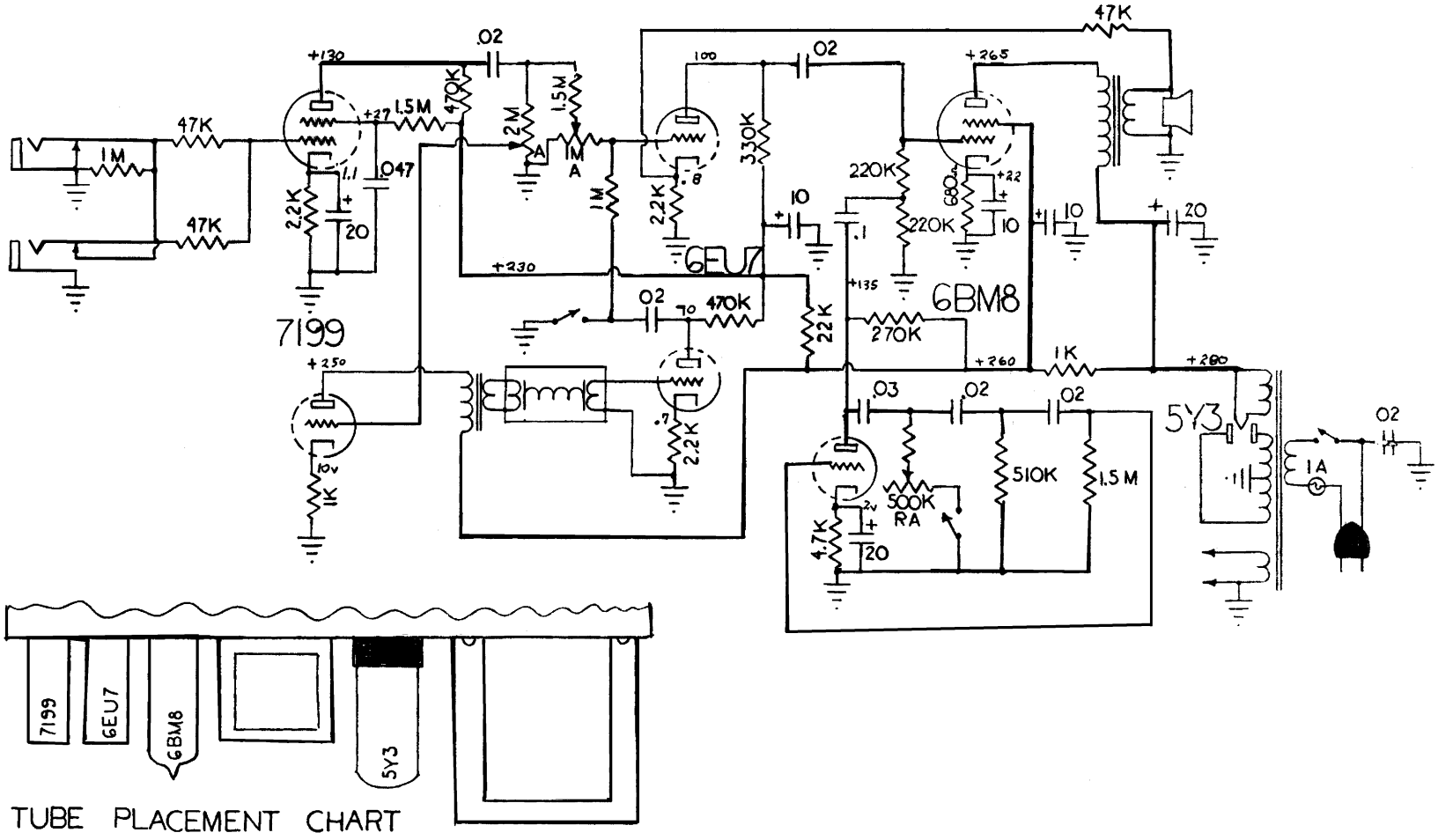


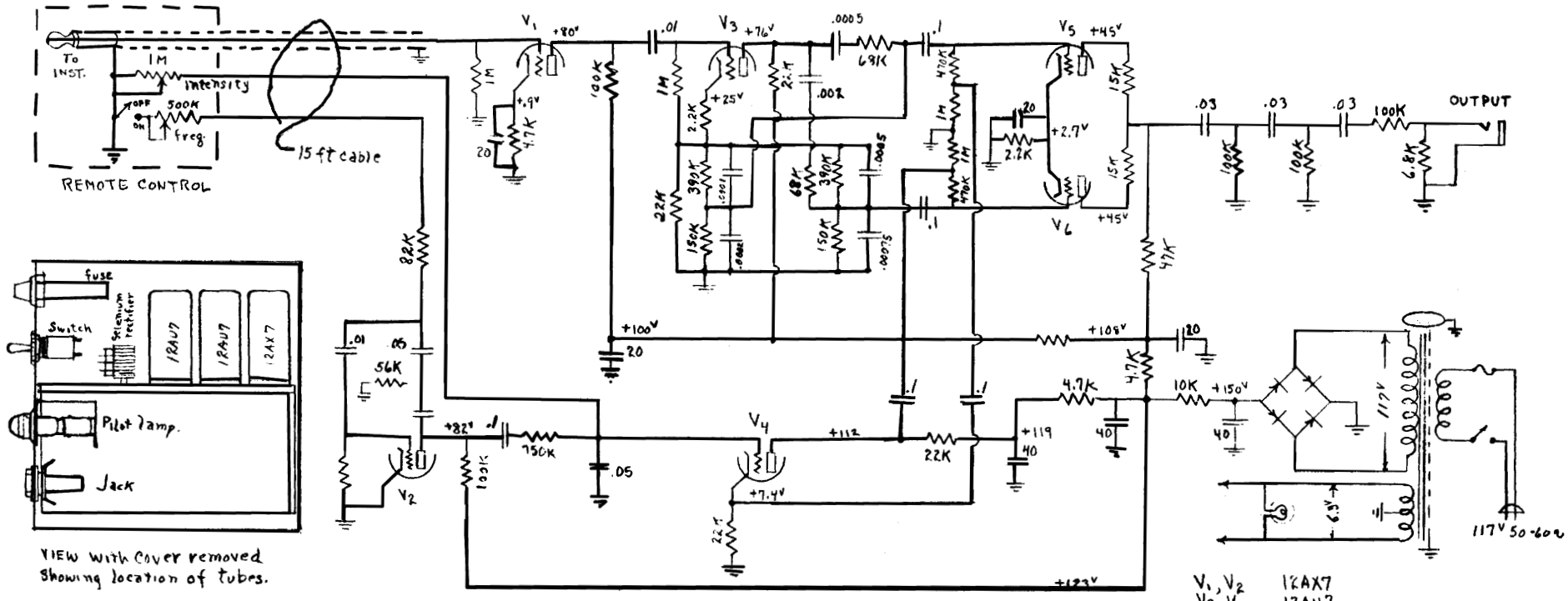
VOLTAGE CHART*

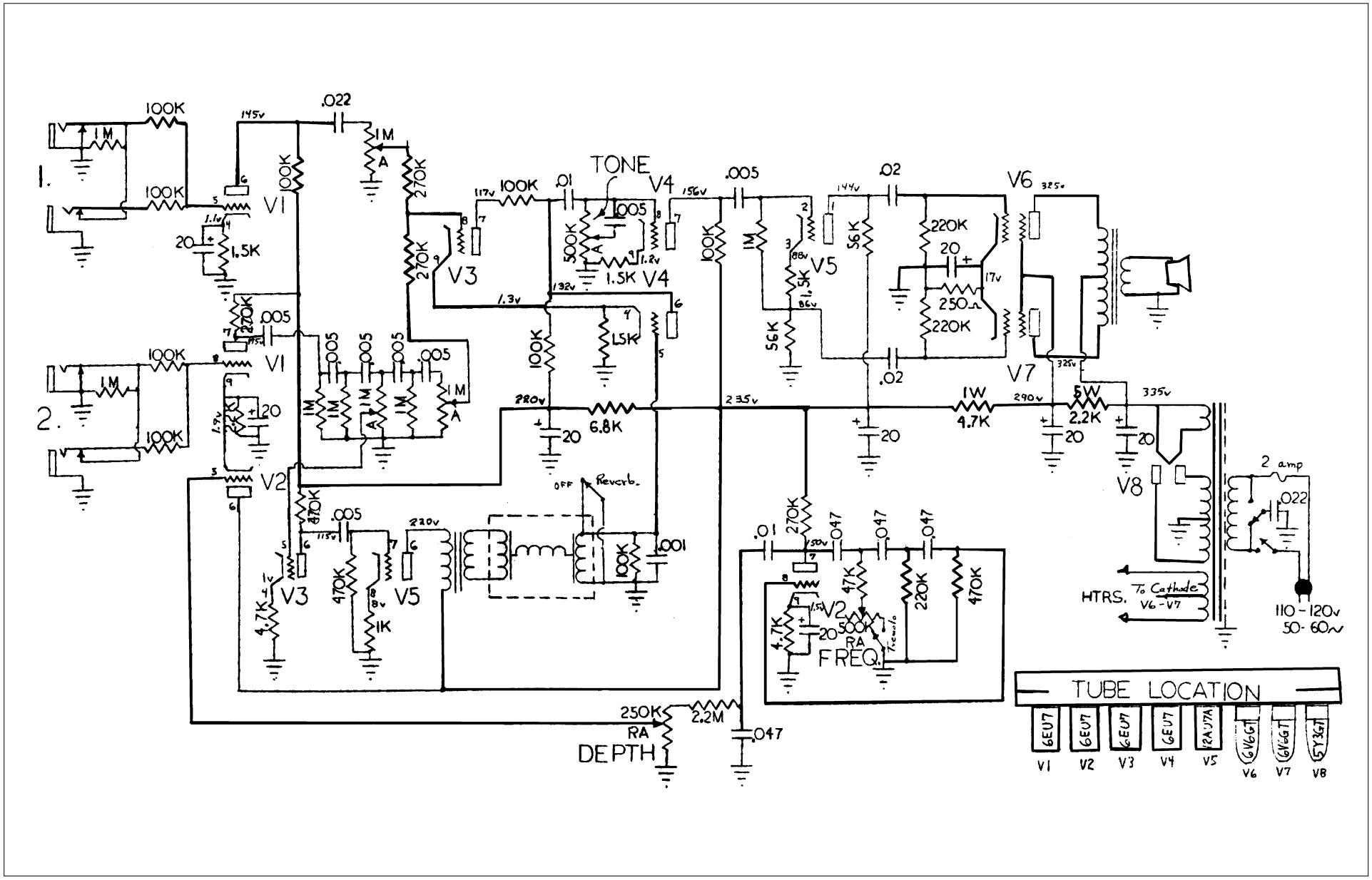
NO.	TUBE TYPE	PIN 1	PIN 2	PIN 3	PIN 4	PIN 6	PIN 7	PIN 8	PIN 9
V1	12AX7	115	0	1	GND	100	0	.9	FIL
V2	6BM8	0	22	0	FIL	275	278	2.2	190
V3	5Y3GT	—	285	0	260 AC	260 AC	278	—	—

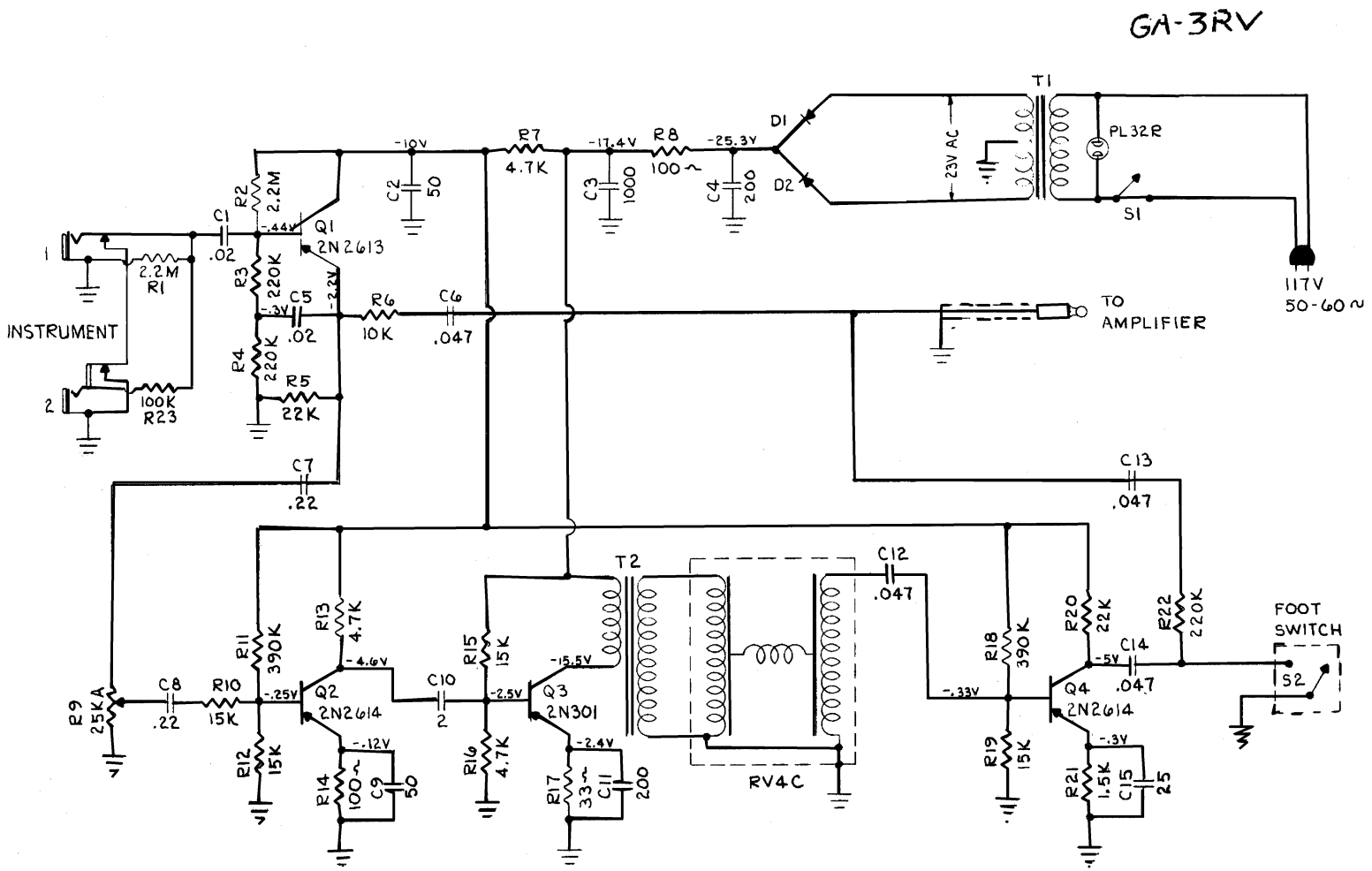
*ALL DC VOLTAGES MEASURED TO CHASSIS WITH 20,000 OHM-PER-VOLT METER.

TUBE PLACEMENT

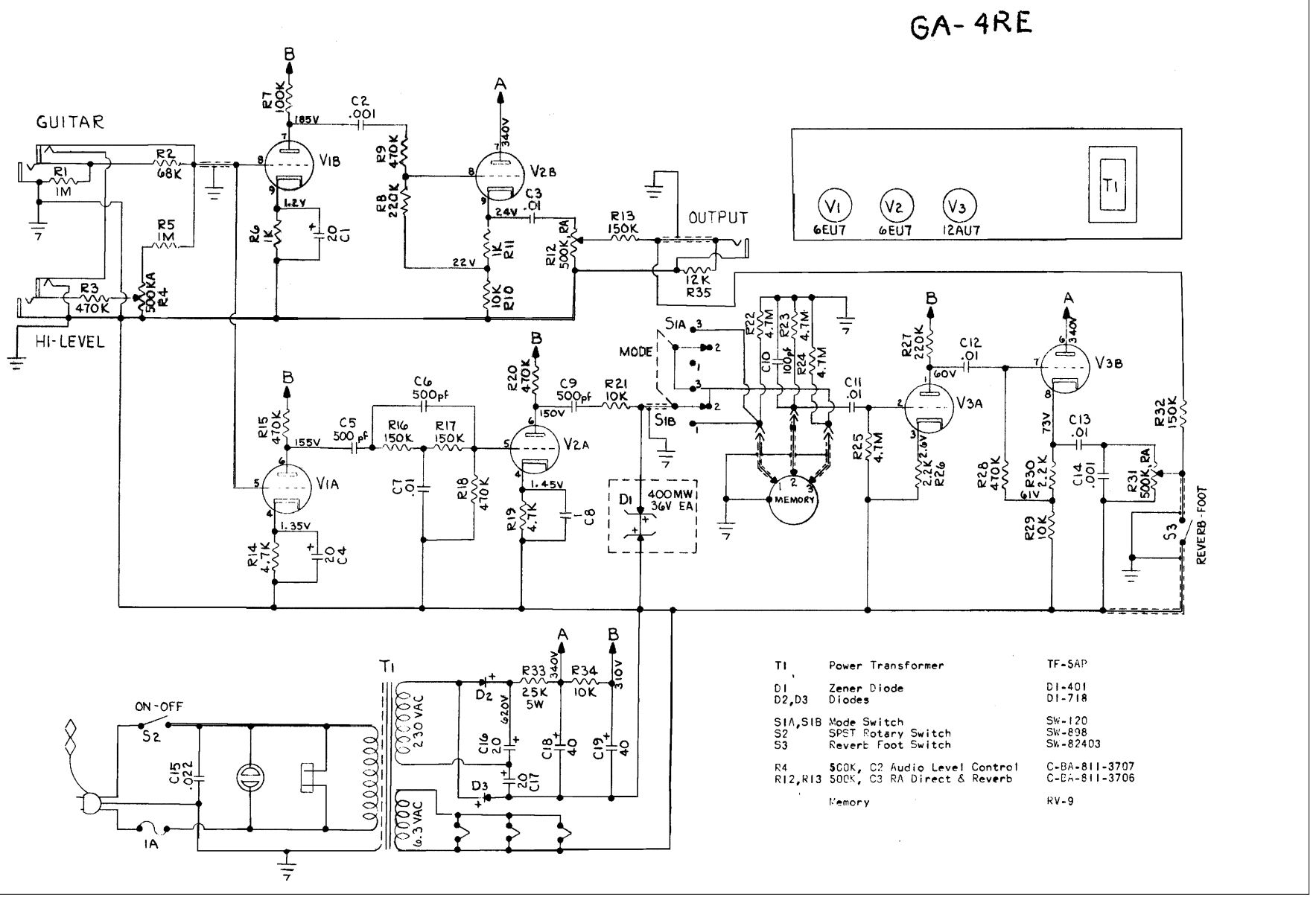

GA-1 RVT
47K
.02
+130
100
+265
1M
47K
1.5M
470K
2M
1.5M
A
M
A
330K
220K
680
+22
10
20
.047
1.1
2.2K
.8
6EU7
+230
+135
6BM8
7199
.02
470K
22K
270K
+250
+260
1K
+280
.03
.02
.02
5Y3
.02
2.2K
10v
1K
510K
1.5 M
500K
RA
2v
4.7K
20
1A
7199
6EU7
6BM8
5Y3
TUBE PLACEMENT CHART

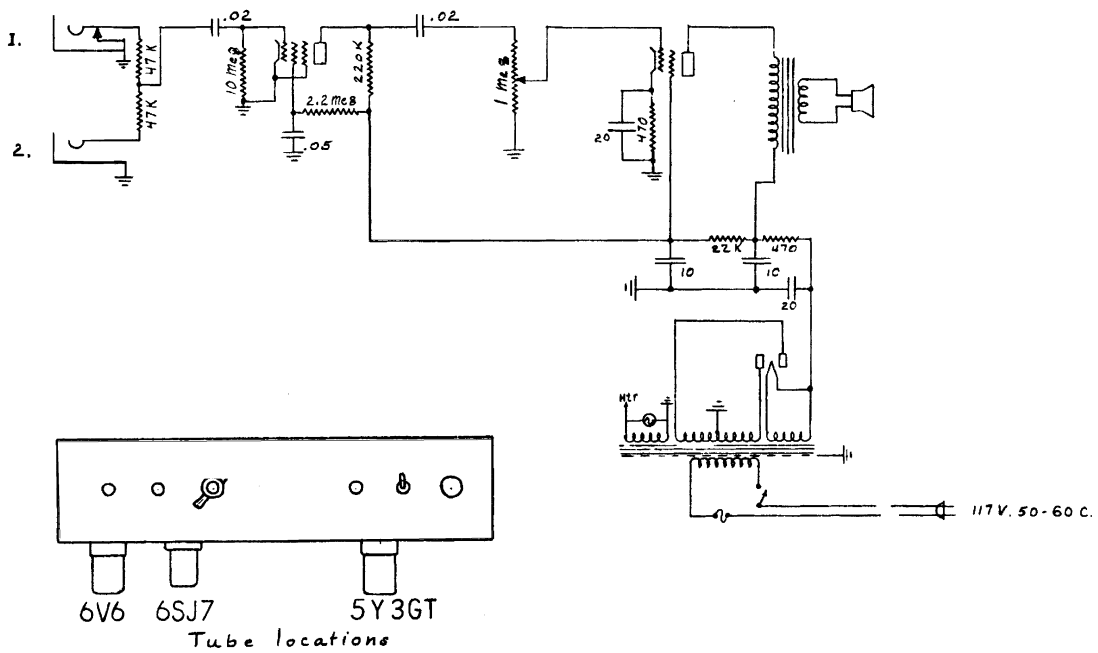

To INST.
1M
Intensity
OFF
ON
500K
Freq.
15 ft cable
REMOTE CONTROL
fuse
Switch
Selenium rectifier
12AU7
12AU7
12AX7
Pilot lamp.
Jack
VIEW With Cover removed Showing location of tubes.
V1
+80V
.01
V3
+76V
.0005
.1
V5
+45V
+25V
+2.7V
+4.9V
4.7K
20
100K
1M
2.2K
.002
68K
390K
.0005
150K
.0005
470K
15K
2.2K
.03
.03
.03
100K
OUTPUT
6.8K
V6
+45V
82K
.01
.05
56K
V2
+82V
.1
750K
.05
100K
V4
+112
+7.4V
22K
+119
40
+100V
20
+109V
20
4.7K
4.7K
10K
+150V
40
117V
6.3V
117V 50-60~
V1, V2 12AX7
V3, V4 12AU7
V5, V6 12AU7
Voltages to chassis with 20,000 Ω/V meter, Vibrato "off" ← 117V AC line.


1.
2.
100K
1M
.022
145v
270K
V1
1.5K
.005
V2
470K
V3
4.7K
1K
V5
220v
.001
TONE
V4
117v
.01
500K
1.2v
132v
1.3v
.005
156v
144v
.02
56K
220K
250Ω
17v
V6
325v
V7
335v
280v
6.8K
235v
1W
4.7K
290v
5W
2.2K
V8
OFF
Reverb.
.047
47K
FREQ.
RA
DEPTH
2.2M
2 amp
HTRS.
To Cathode
V6-V7
110-120v
50-60~
TUBE LOCATION
6EU7
6EU7
6EU7
6EU7
6AU7A
6V6GT
6V6GT
5Y3GT
V1
V2
V3
V4
V5
V6
V7
V8



T1	Power Transformer	TF-101P
T2	Reverb. Transformer	TF-100OR
D1,D2	Diodes, 200 PIV,150 MA	DI-69A
R9	25K, Audio taper ± 30%	CBA-811-3712
S1	Switch, SPST Rotary	SW-898-1


GA-4RE
GUITAR
HI-LEVEL
OUTPUT
MODE
MEMORY
REVERB-FOOT
ON-OFF
V1A
V1B
V2A
V2B
V3A
V3B
6EU7
6EU7
12AU7
T1
D1 400MW 36V EA
TF-5AP
D1-401
D1-718
SW-120
SW-898
SW-82403
C-BA-811-3707
C-BA-811-3706
RV-9



Les Paul

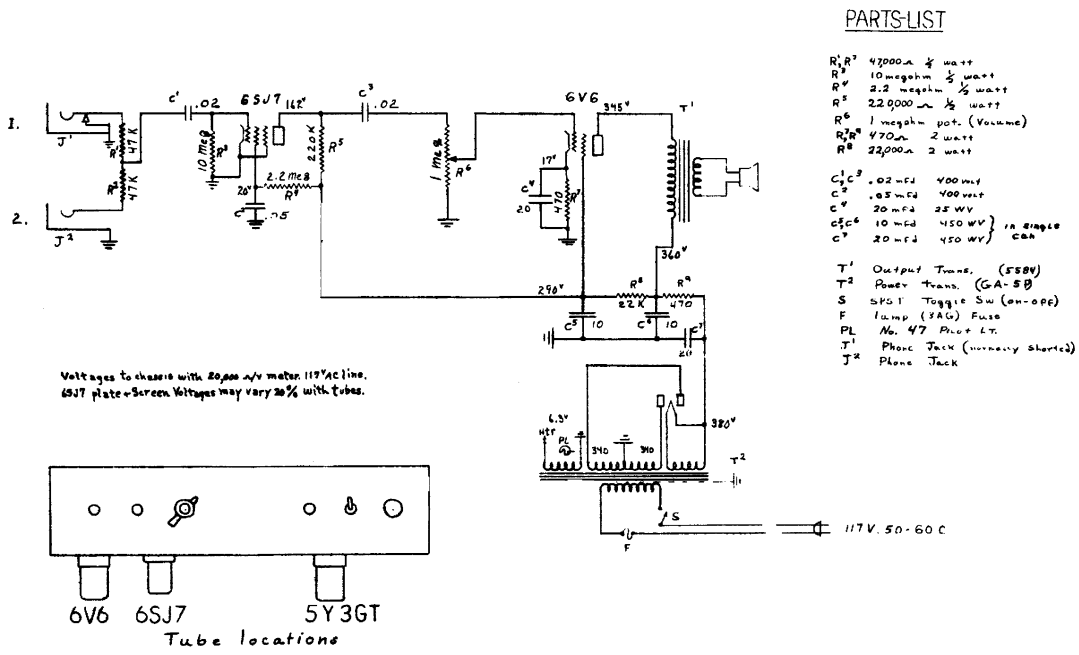
When only one instrument is used plug into #1 input jack.

This amplifier designed for 105-125 volt, 50-60 cycle current. Damage will result if connected to improper power source.

Use the above schematic to facilitate service by a reliable radio man.

Do not use higher rating fuse than one ampere, type 3 A.G.

This amplifier was carefully checked and in good playing condition when shipped. If damaged when received call transportation company immediately and place claim.



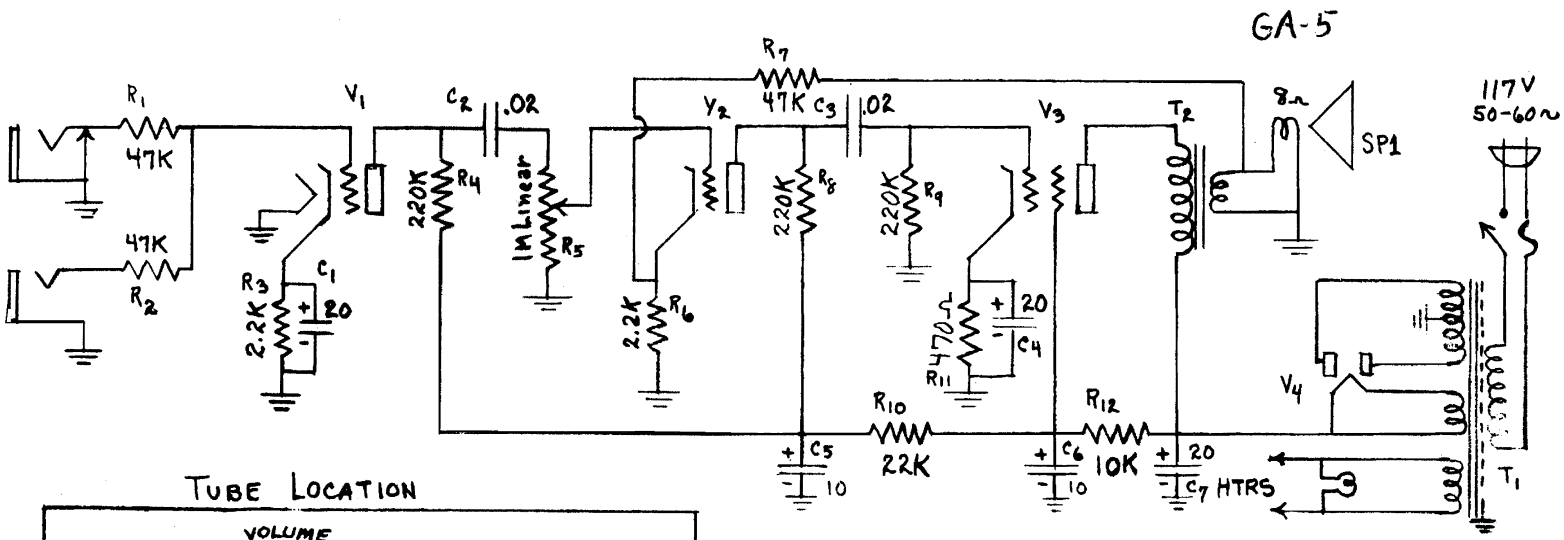
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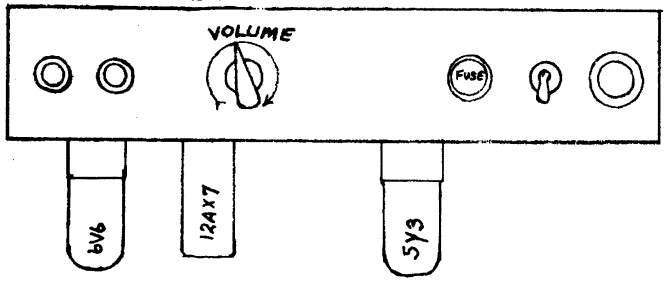
Use the above schematic to facilitate service by a reliable radio man.

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TUBE LOCATION



DC VOLTAGES TO CHASSIS USING VTVM (11 MEG INPUT)

TUBE	USE	PLATE	SCREEN	CATHODE
V1 ½12AX7	VOLTAGE AMPLIFIER	165	—	1.5
V2 "	" "	165	—	1.5
V3 6V3	POWER "	375	350	20
V4 5Y3	RECTIFIER	300VAC	—	380

PARTS LIST

R_1 R_2 R_7 47K ½w, R_3 R_6 2.2K ½w, R_4 R_8 R_9 220K ½w, R_{10} 22K 1w, R_{11} 470Ω 1w, R_{12} 10K 1w, R_5 1MEG LINEAR TAPER

C_1 C_4 20MFD 25 VOLT, C_2 C_3 .02 MFD 400 VOLT, C_5 C_6 10MFD 450 VOLT, C_7 20MFD 450 VOLT

T_1 POWER TRANSFORMER # GA5P T_2 OUTPUT TRANSFORMER # GA5-O SP1 SPEAKER, 8" dia, 8Ω VC, TYPE 8J11.

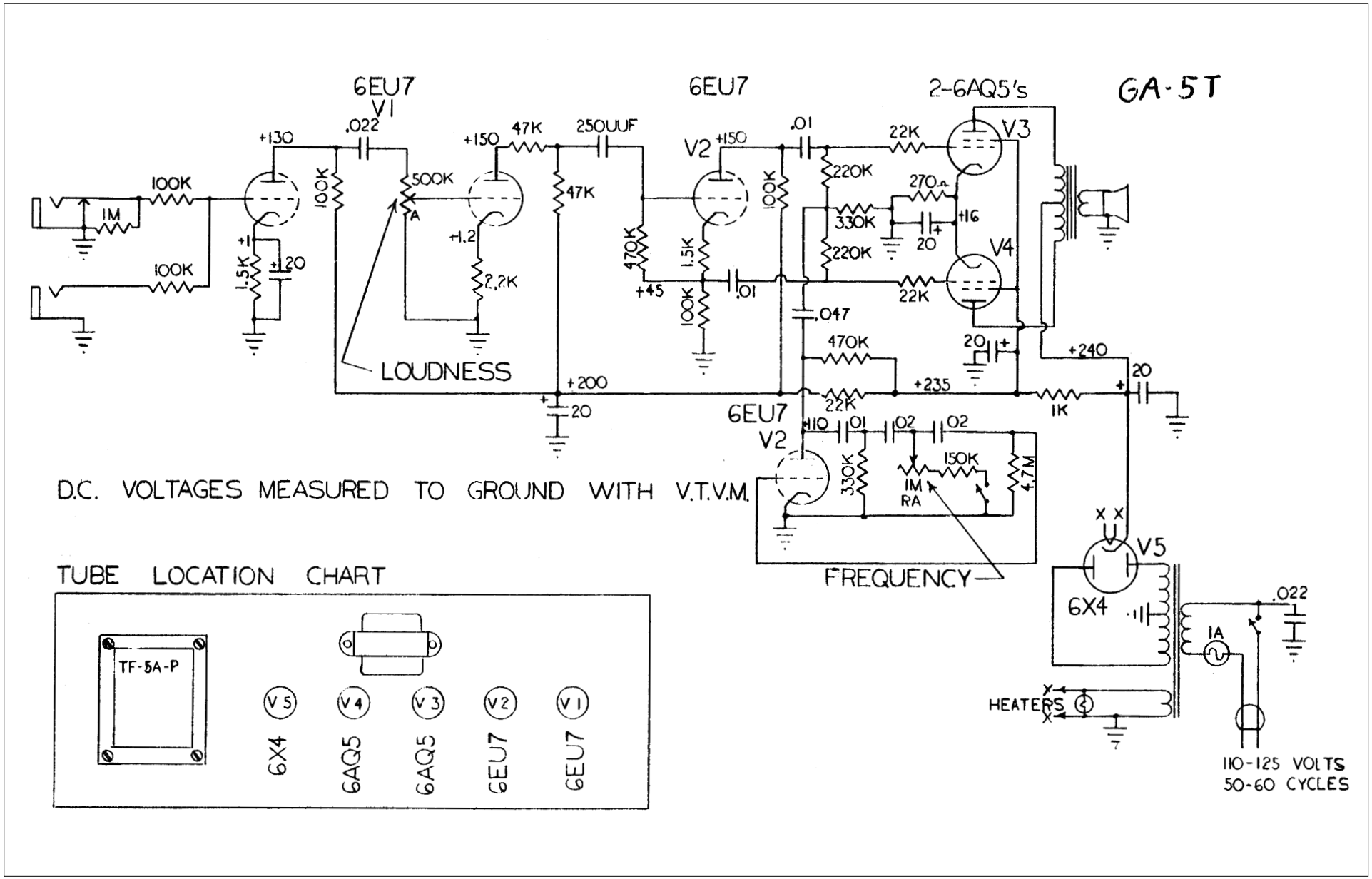
When only one instrument is used plug into #1 input jack.

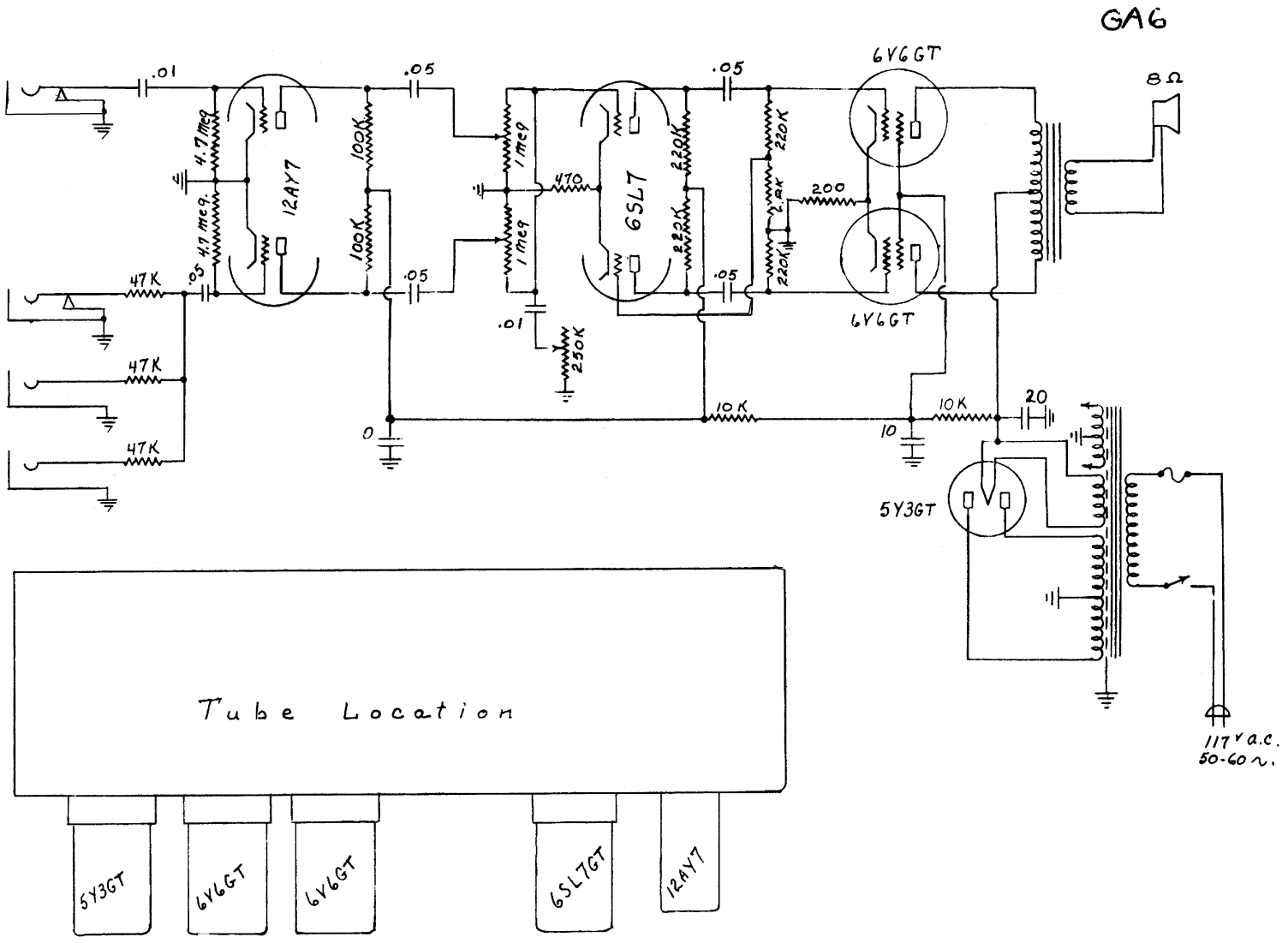
This amplifier designed for 105-125 volt, 50-60 cycle current. Damage will result if connected to improper power source.

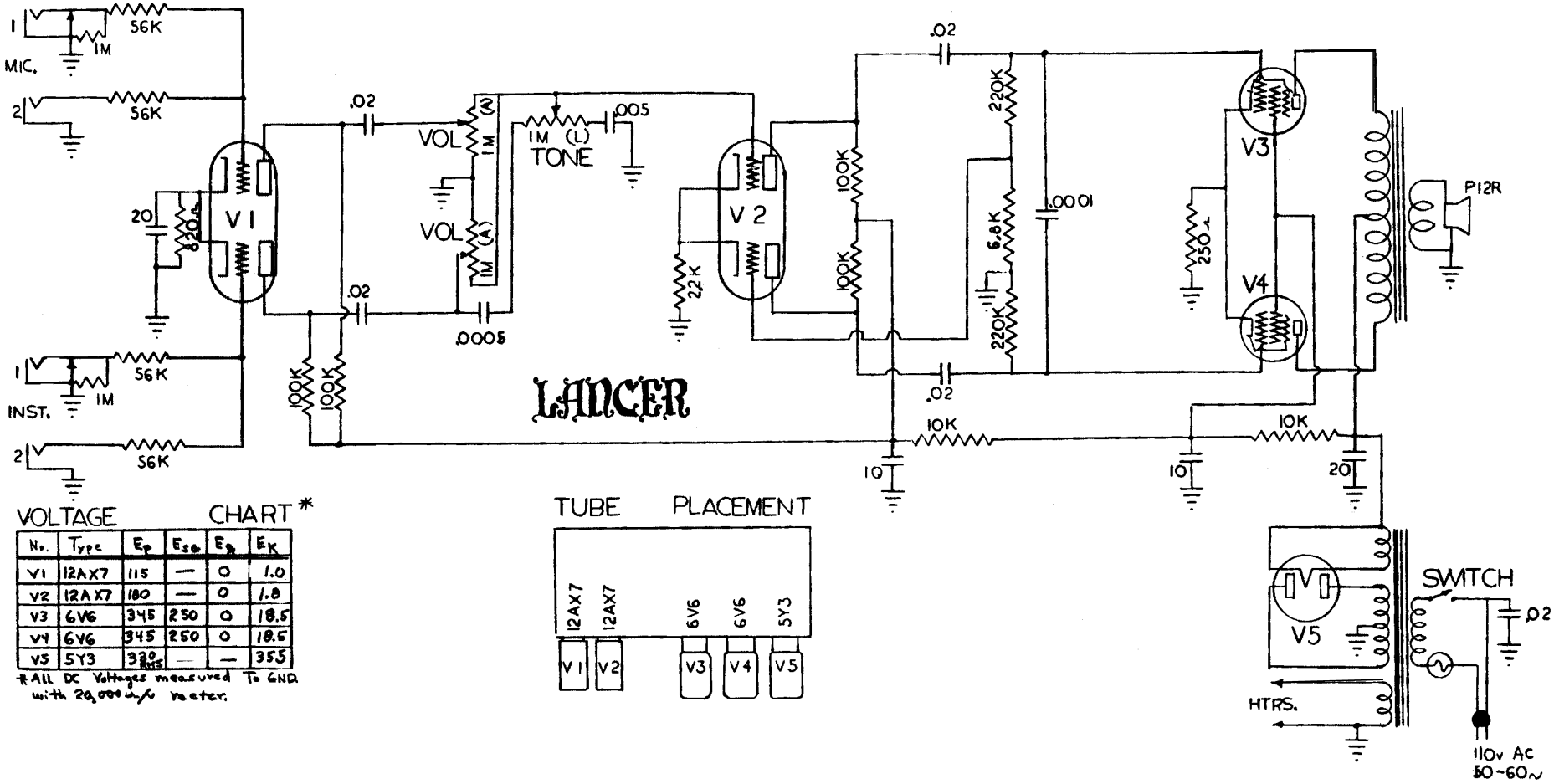
Use the above schematic to facilitate service by a reliable radio man.

Do not use higher rating fuse than one ampere, type 3 A.G.

This amplifier was carefully checked and in good playing condition when shipped. If damaged when received call transportation company immediately and place claim.


GA-5T
6EU7
V1
6EU7
2-6AQ5's
V3
V4
V2
V5
6X4
6EU7
V2
LOUDNESS
FREQUENCY
HEATERS
1M
100K
500K
47K
250UUF
.022
.01
.047
.02
220K
330K
270Ω
470K
1.5K
2.2K
22K
150K
4.7M
1K
+130
+150
+1.2
+45
+200
+235
+240
+16
20
110-125 VOLTS
50-60 CYCLES
1A
D.C. VOLTAGES MEASURED TO GROUND WITH V.T.V.M.
TUBE LOCATION CHART
TF-5A-P
V5 6X4
V4 6AQ5
V3 6AQ5
V2 6EU7
V1 6EU7


GA6
.01
4.7meg
4.7meg
12AY7
47K
47K
47K
.05
100K
100K
.05
.05
1meg
1meg
470
6SL7
.01
250K
.05
220K
222K
.05
220K
2.2K
220K
200
6V6GT
6V6GT
8Ω
0
10K
10
10K
20
5Y3GT
117 v a.c.
50-60 ~.
Tube Location
5Y3GT
6V6GT
6V6GT
6SL7GT
12AY7

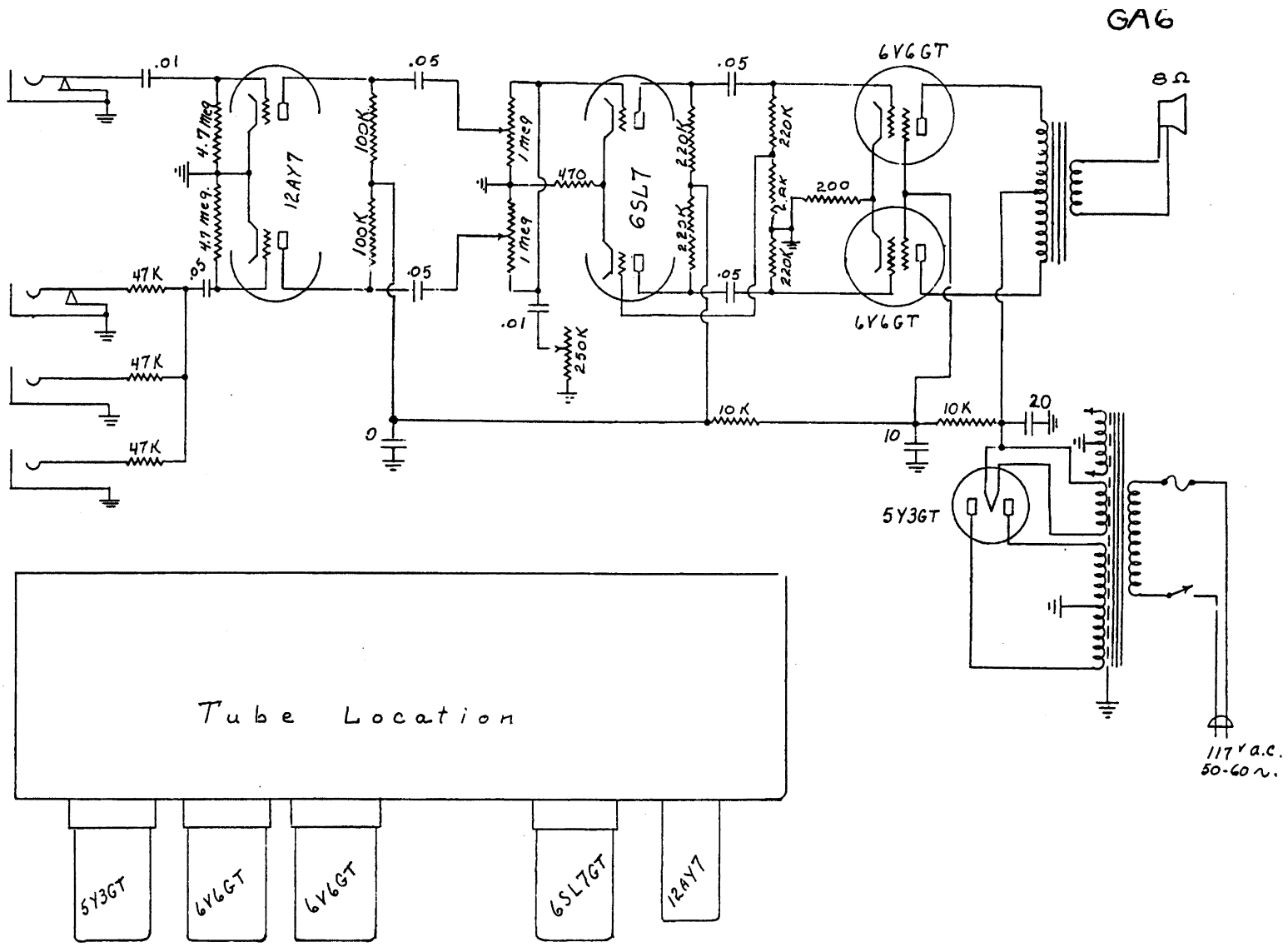


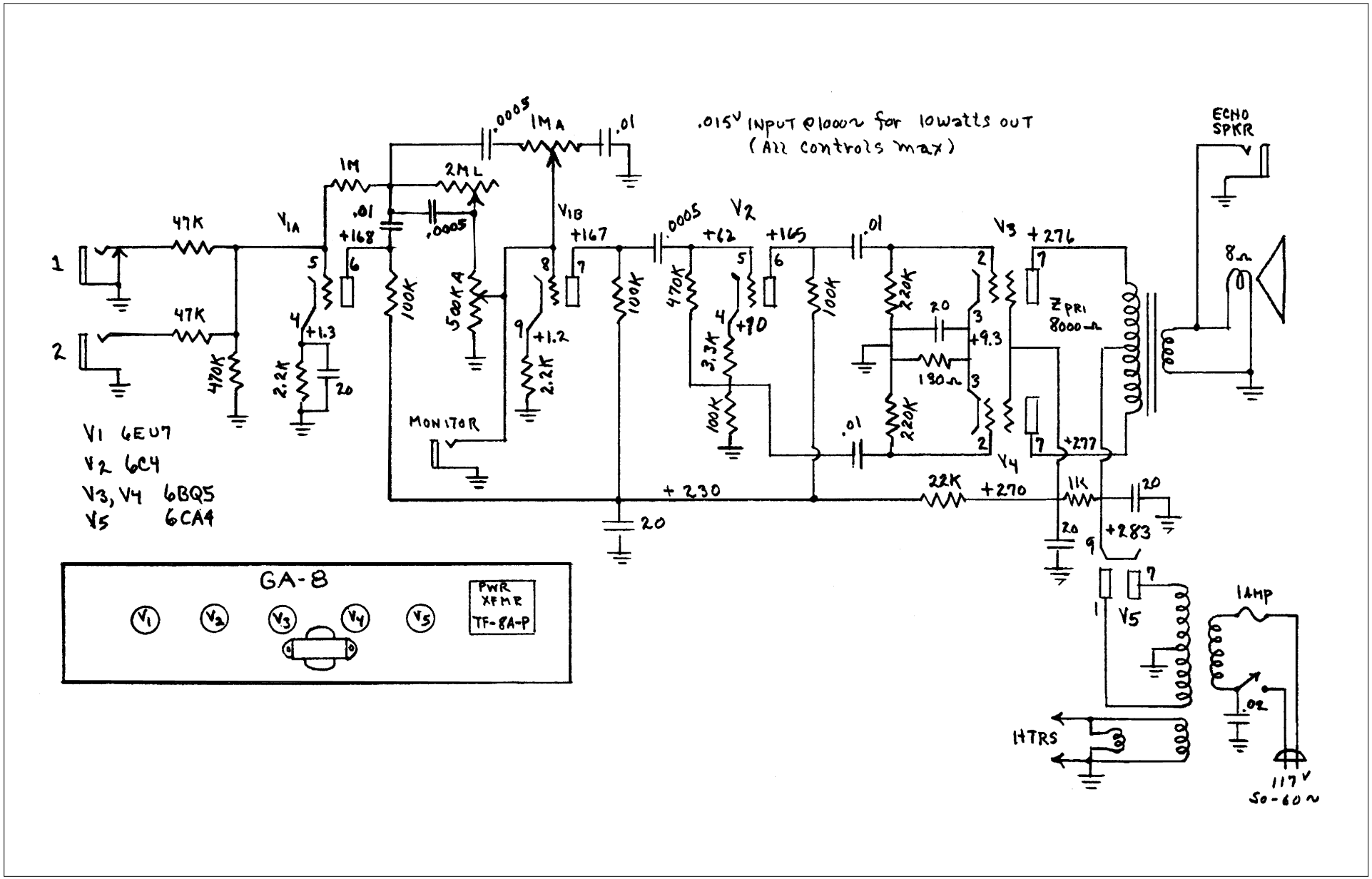
VOLTAGE CHART *

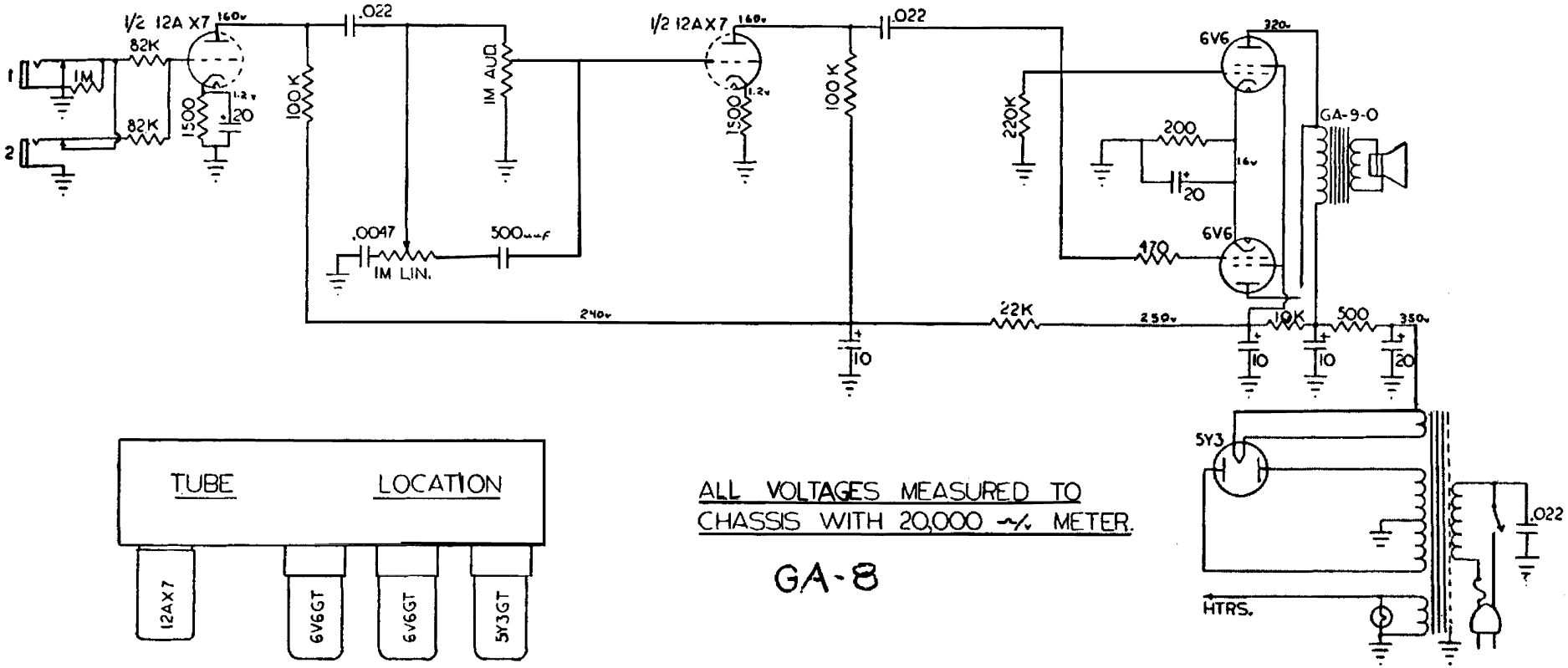
No.	Type	E_p	E_{sg}	E_g	E_K
V1	12AX7	115	—	0	1.0
V2	12AX7	180	—	0	1.8
V3	6V6	345	250	0	18.5
V4	6V6	345	250	0	18.5
V5	5Y3	330 RMS	—	—	355

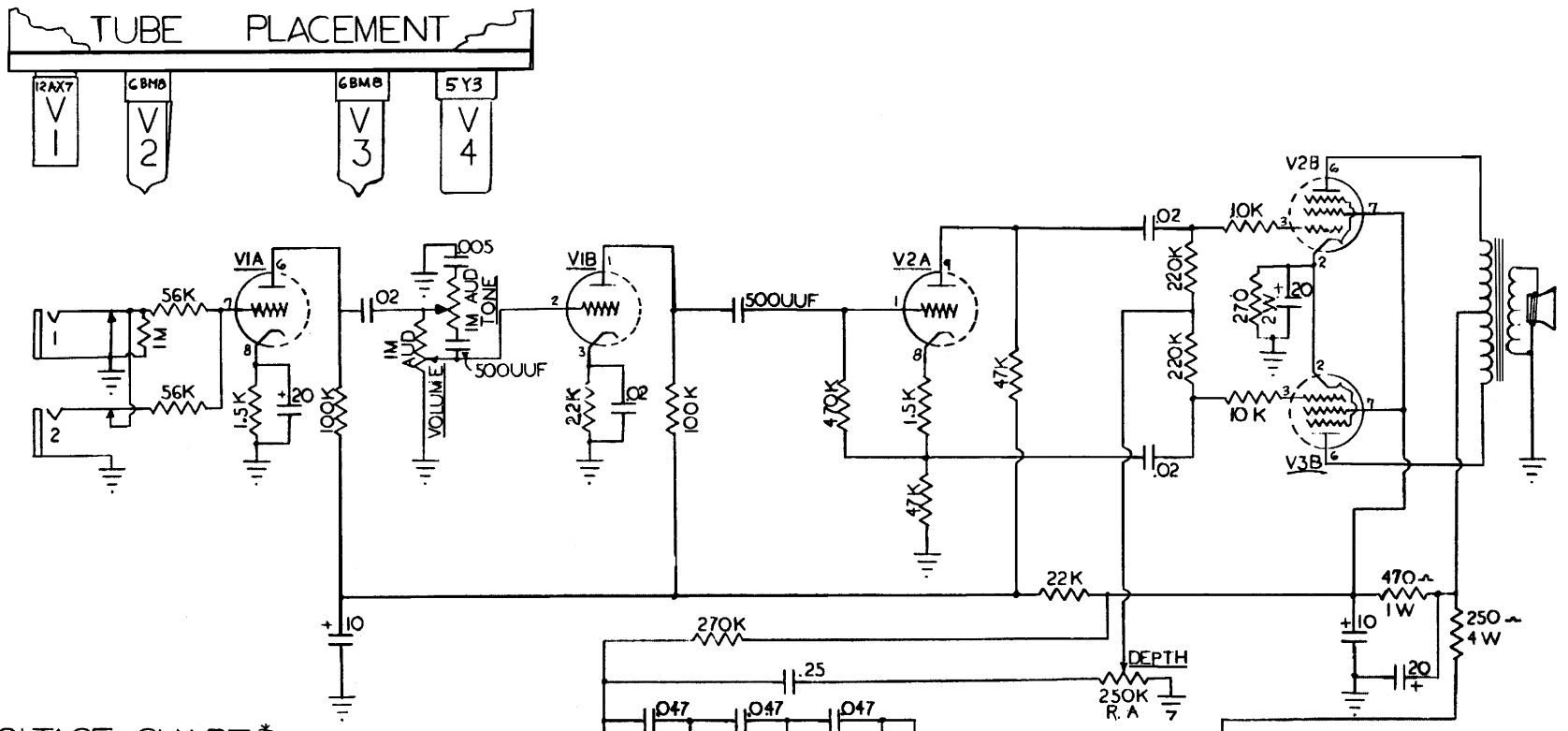
*All DC Voltages measured To GND with 20,000 Ω/V meter.

TUBE PLACEMENT


GA6
.01
4.7 meg
.47 meg
12AY7
100K
100K
.05
.05
47K
47K
47K
.05
1 meg
1 meg
470
6SL7
220K
220K
.05
.05
.01
250K
2.2K
220K
200
6V6GT
6V6GT
8Ω
0
10K
10
10K
20
5Y3GT
117 v a.c.
50-60 ~.
Tube Location
5Y3GT
6V6GT
6V6GT
6SL7GT
12AY7


.015V INPUT @1000Ω for 10watts OUT
(All controls max)
ECHO SPKR
8Ω
.0005
1MA
.01
1M
2ML
.01
.0005
47K
47K
470K
2.2K
20
500K A
100K
100K
470K
3.3K
100K
100K
220K
220K
20
190Ω
Z PRI 8000Ω
+1.3
+1.2
+90
+9.3
+277
+276
+167
+168
+62
+165
+230
+270
22K
11K
20
+283
20
20
20
.02
1AMP
117V 50-60~
HTRS
V5
V1 6EU7
V2 6C4
V3, V4 6BQ5
V5 6CA4
MONITOR
GA-8
V1
V2
V3
V4
V5
PWR XFMR TF-8A-P


1/2 12A X7
160v
82K
1M
82K
1500
1.2v
20
.022
100K
IM AUD
.0047
IM LIN.
500 mmf
240v
1/2 12AX7
160v
1500
1.2v
100K
.022
220K
6V6
320v
200
16v
20
GA-9-0
6V6
470
22K
250v
10K
500
350v
10
10
20
10
5Y3
.022
HTRS.
1
2
TUBE
LOCATION
12AX7
6V6GT
6V6GT
5Y3GT
ALL VOLTAGES MEASURED TO CHASSIS WITH 20,000 ~/v METER.
GA-8

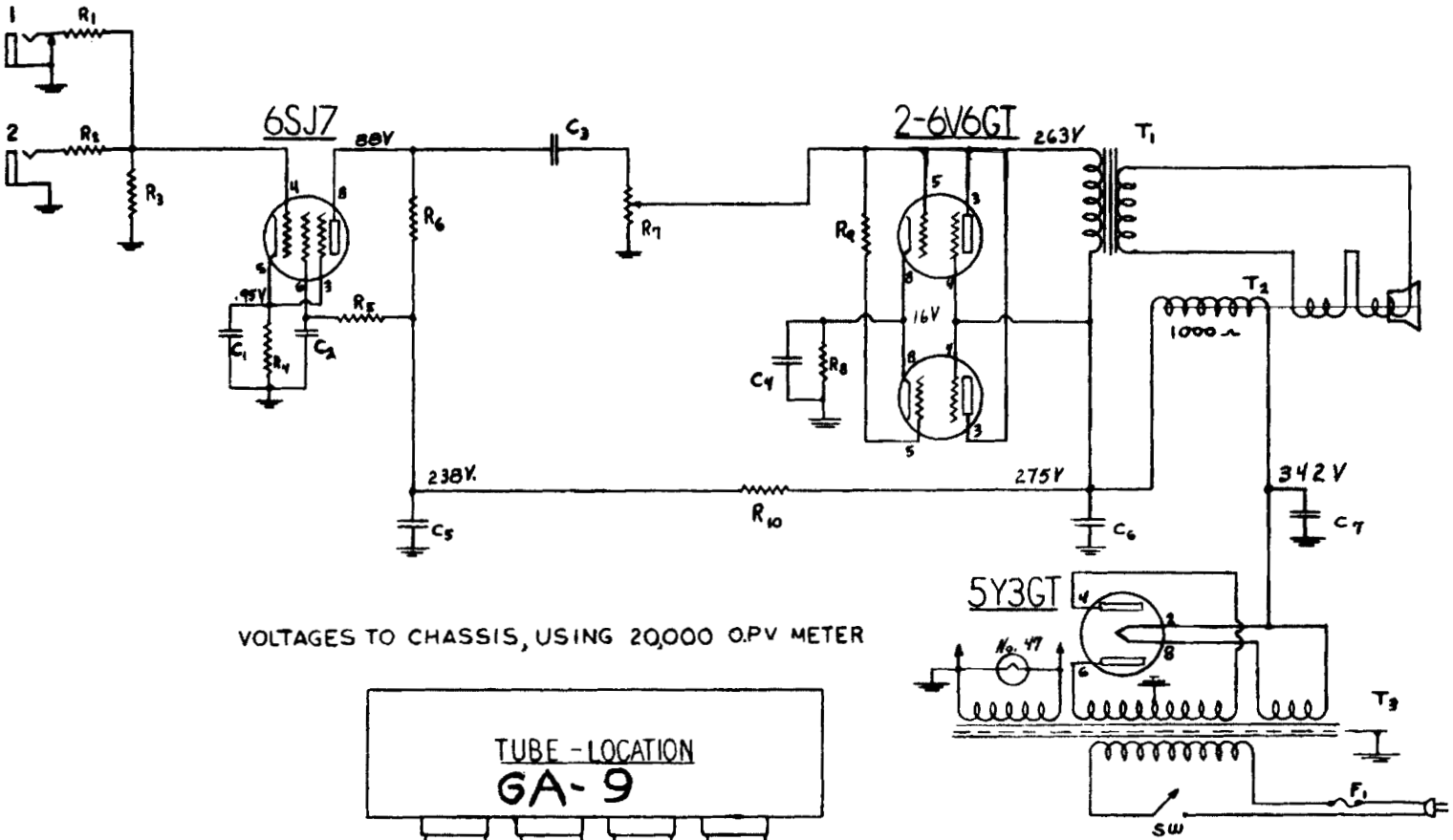


VOLTAGE CHART*

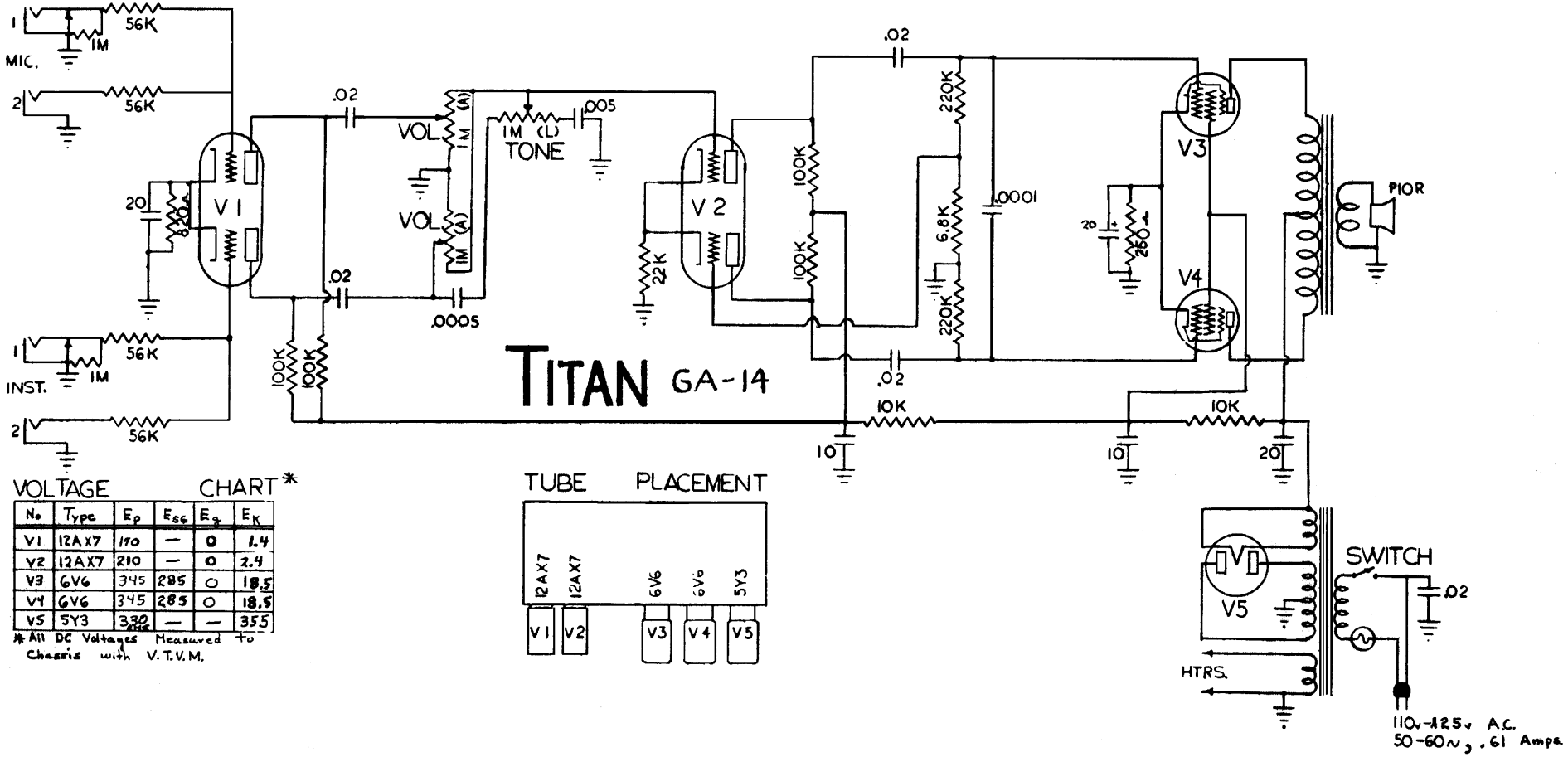
NO.	TUBE TYPE	PIN 1	PIN 2	PIN 3	PIN 4	PIN 6	PIN 7	PIN 8	PIN 9
V 1	12AX7	130	0	1	—	130	0	1	—
V 2	6BM8	48	19	0	—	255	245	48	155
V 3	6BM8	0	19	0	—	255	245	15	85
V 4	5Y3	—	—	280 A.C.	280 A.C.	—	—	270	—

*ALL D.C. VOLTAGES MEASURED TO CHASSIS WITH 20,000 OHM/VOLT METER.

R1 47K 1/2 WATT
R2 47K 1/2 WATT
R3 220K 1/2 WATT
R4 1000 OHMS 1/2 WATT
R5 1 MEGOHM 1/2 WATT
R6 220K 1/2 WATT
R7 500K VOLUME CONTROL
R8 200 OHM 7 WATT
R9 470 OHM 1/2 WATT
R10 47K 1 WATT
C1 20MFD 25 W.V.
C2 .05MFD 600 W.V.
C3 .05MFD 600 W.V.
C4 20MFD 25 W.V.
C5 10MFD 450 W.V.
C6 10MFD 450 W.V.
C7 20MFD 450 W.V.
T1 OUTPUT TRANSFORMER
T2 SPEAKER FIELD
T3 POWER TRANSFORMER
F1 FUSE 2AMP TYPE 3AG



VOLTAGES TO CHASSIS, USING 20,000 O.P.V METER

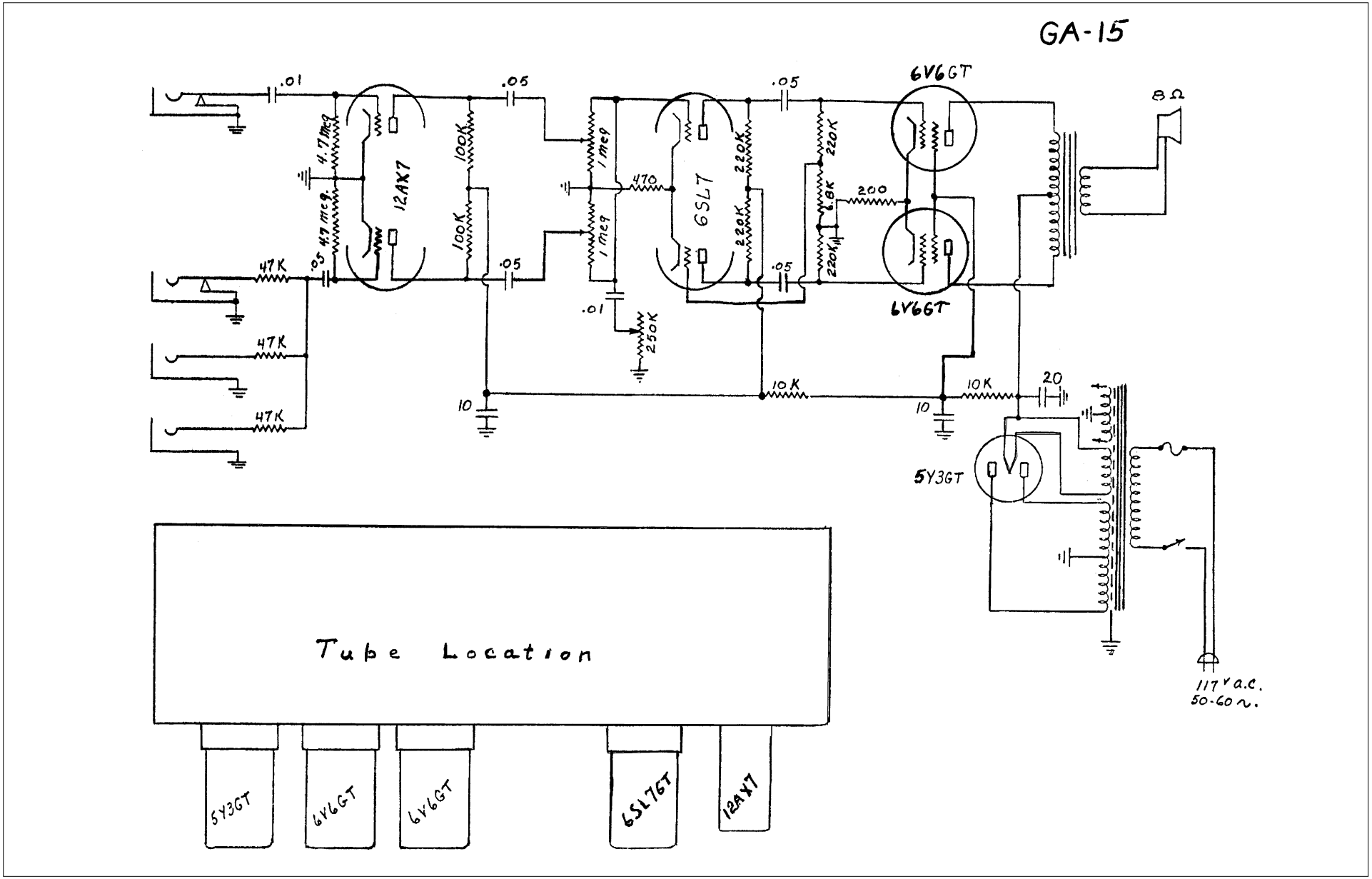


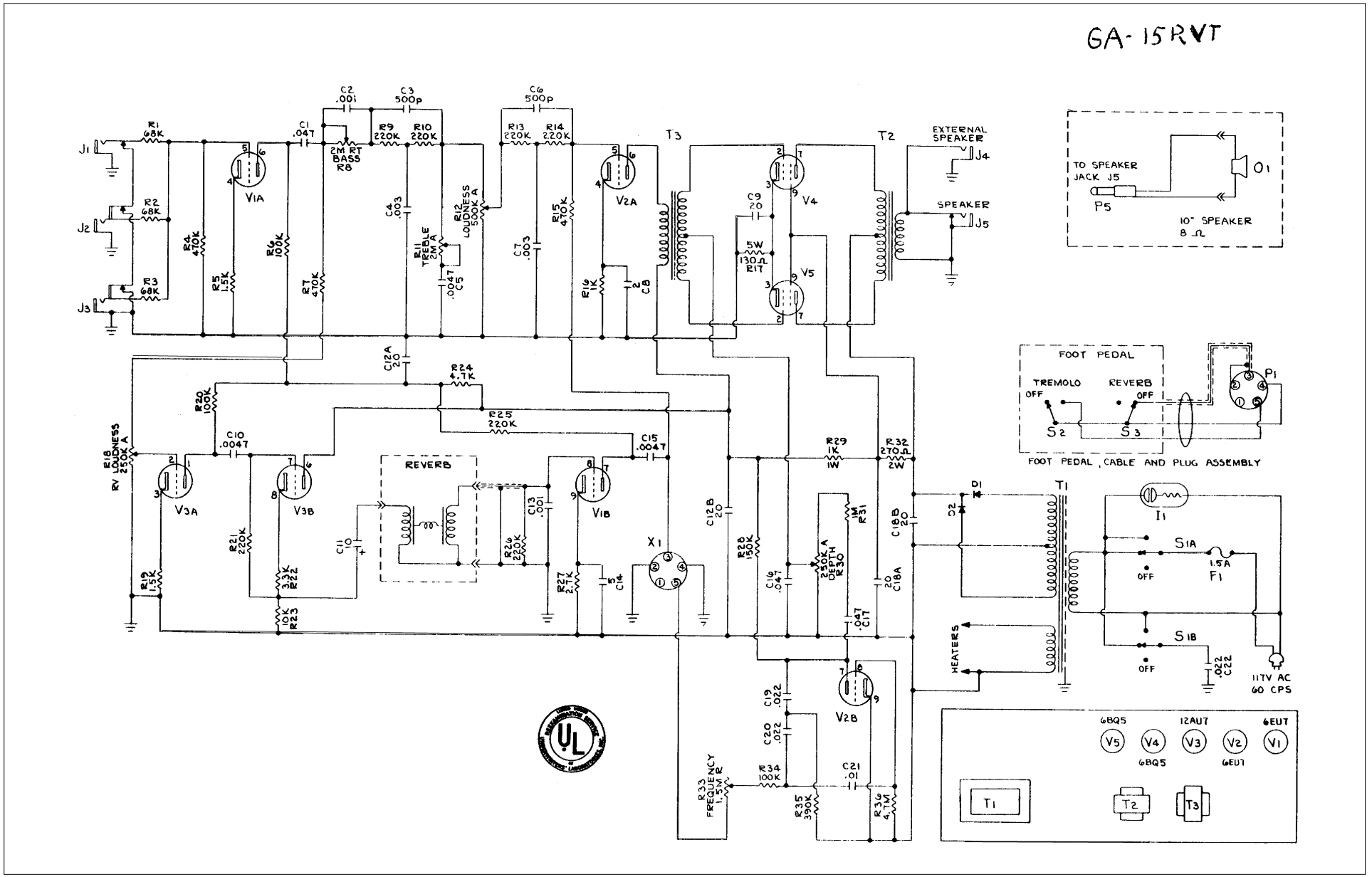
VOLTAGE CHART *

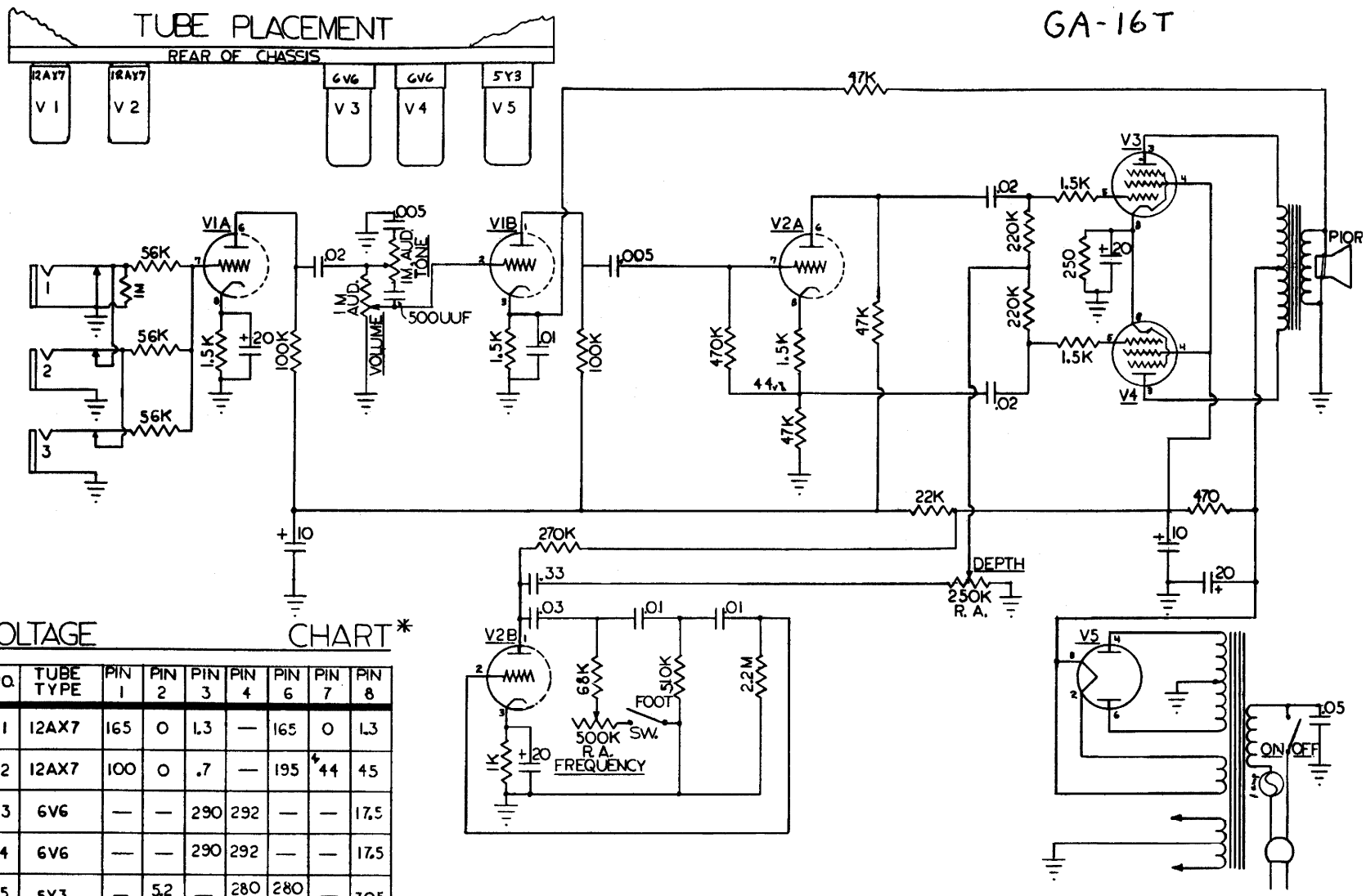
No.	Type	E_p	E_{sg}	E_g	E_K
V1	12AX7	170	—	0	1.4
V2	12AX7	210	—	0	2.4
V3	6V6	345	285	0	18.5
V4	6V6	345	285	0	18.5
V5	5Y3	330	—	—	355

* All DC Voltages Measured to Chassis with V.T.V.M.

TUBE PLACEMENT


GA-15
.01
4.7 meg
4.7 meg
12AX7
100K
100K
.05
.05
1 meg
1 meg
470
6SL7
.05
220K
220K
.05
220K
6.8K
220K
200
6V6GT
6V6GT
8Ω
47K
47K
47K
.05
.01
250K
10
10K
10K
10
20
5Y3GT
117 v a.c.
50-60 ~.
Tube Location
5Y3GT
6V6GT
6V6GT
6SL7GT
12AX7

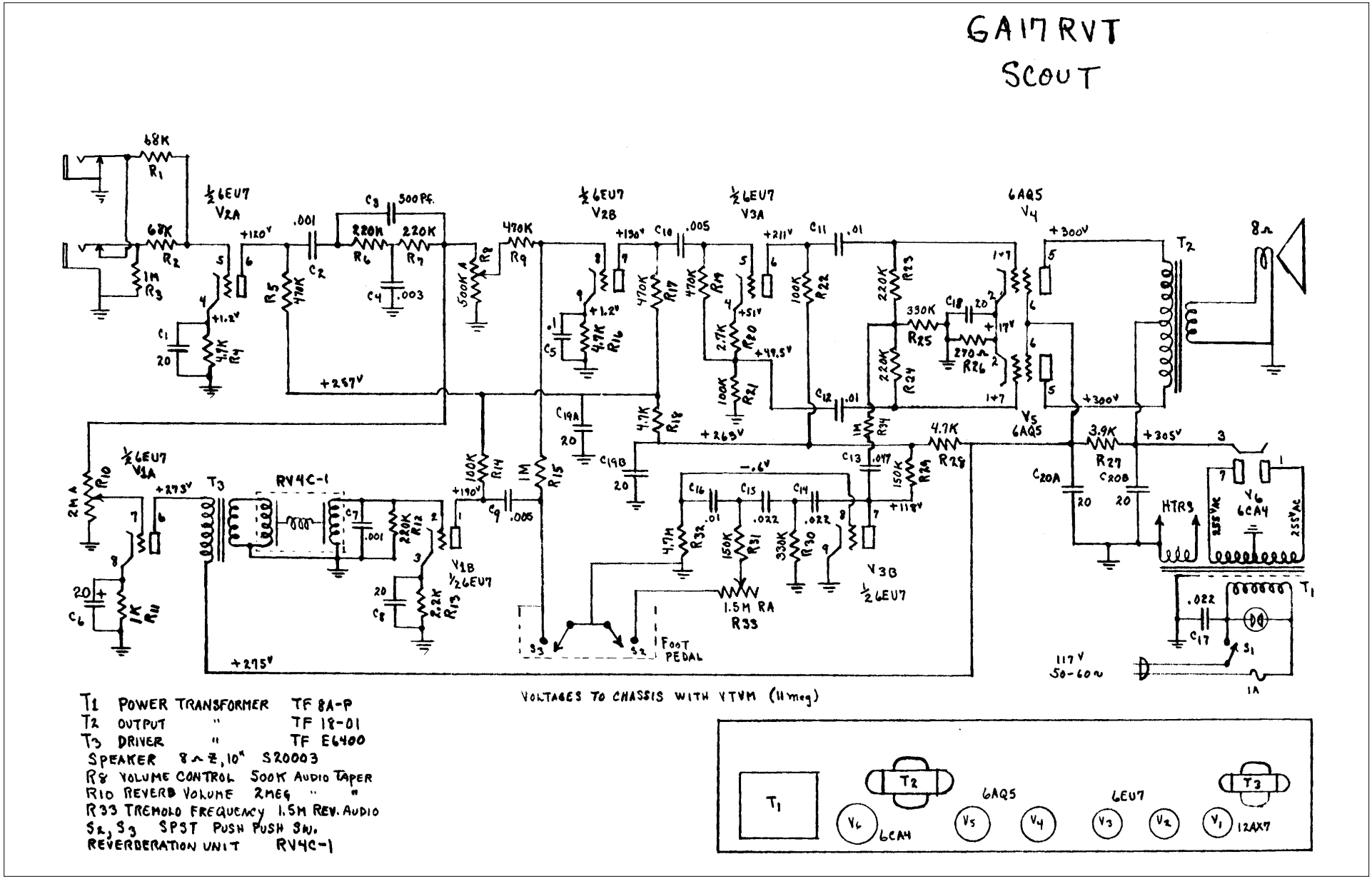

GA-15RVT
TO SPEAKER JACK J5
P5
O1
10" SPEAKER 8 Ω
EXTERNAL SPEAKER
J4
SPEAKER
J5
FOOT PEDAL
TREMOLO
OFF
REVERB
OFF
S2
S3
P1
FOOT PEDAL, CABLE AND PLUG ASSEMBLY
REVERB
HEATERS
I1
S1A
S1B
OFF
1.5A
F1
117V AC 60 CPS
6BQ5
12AUT
6EU7
V1
V2
V3
V4
V5
T1
T2
T3
X1
D1
D2

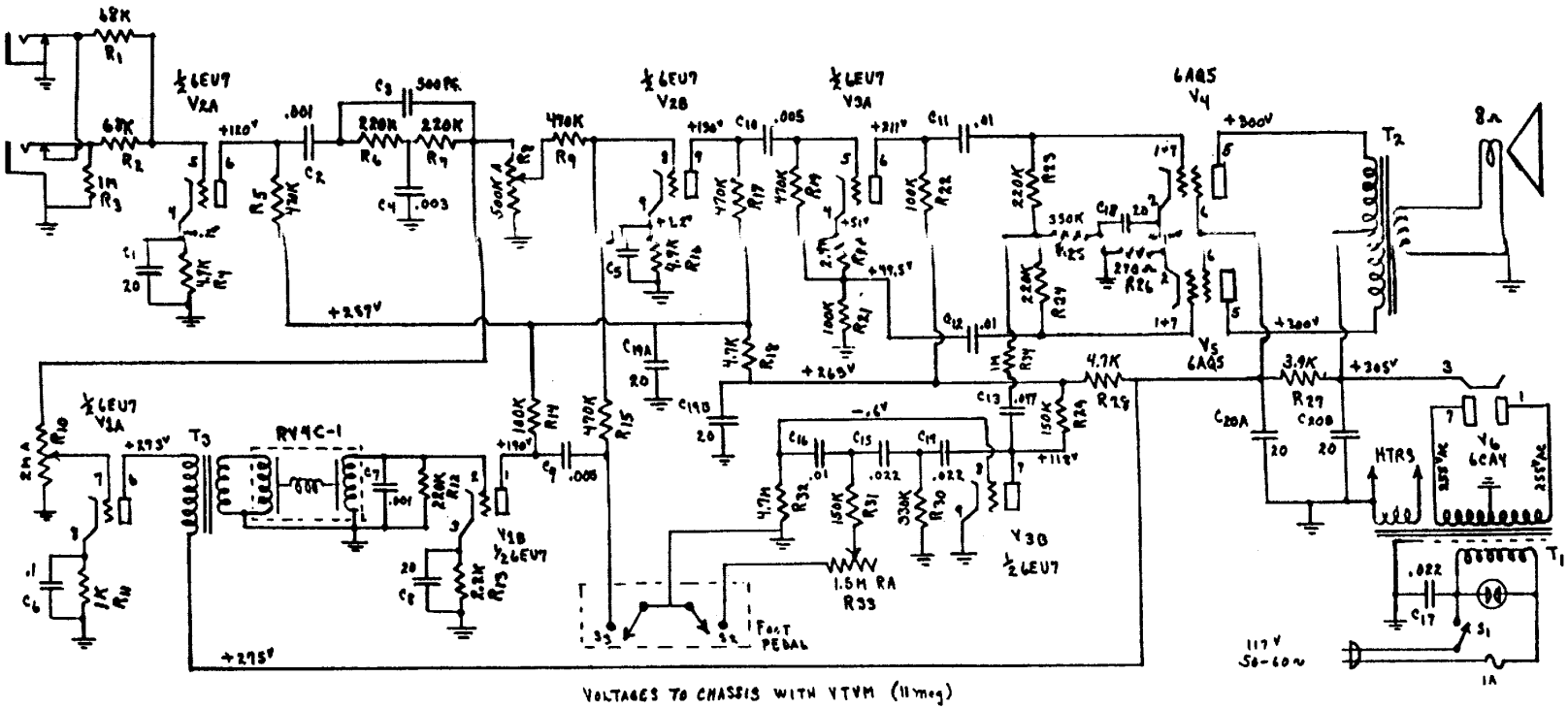


VOLTAGE CHART*

NO.	TUBE TYPE	PIN 1	PIN 2	PIN 3	PIN 4	PIN 6	PIN 7	PIN 8
V 1	12AX7	165	0	1.3	—	165	0	1.3
V 2	12AX7	100	0	.7	—	195	44	45
V 3	6V6	—	—	290	292	—	—	17.5
V 4	6V6	—	—	290	292	—	—	17.5
V 5	5Y3	—	5.2 AC	—	280 AC	280 AC	—	305

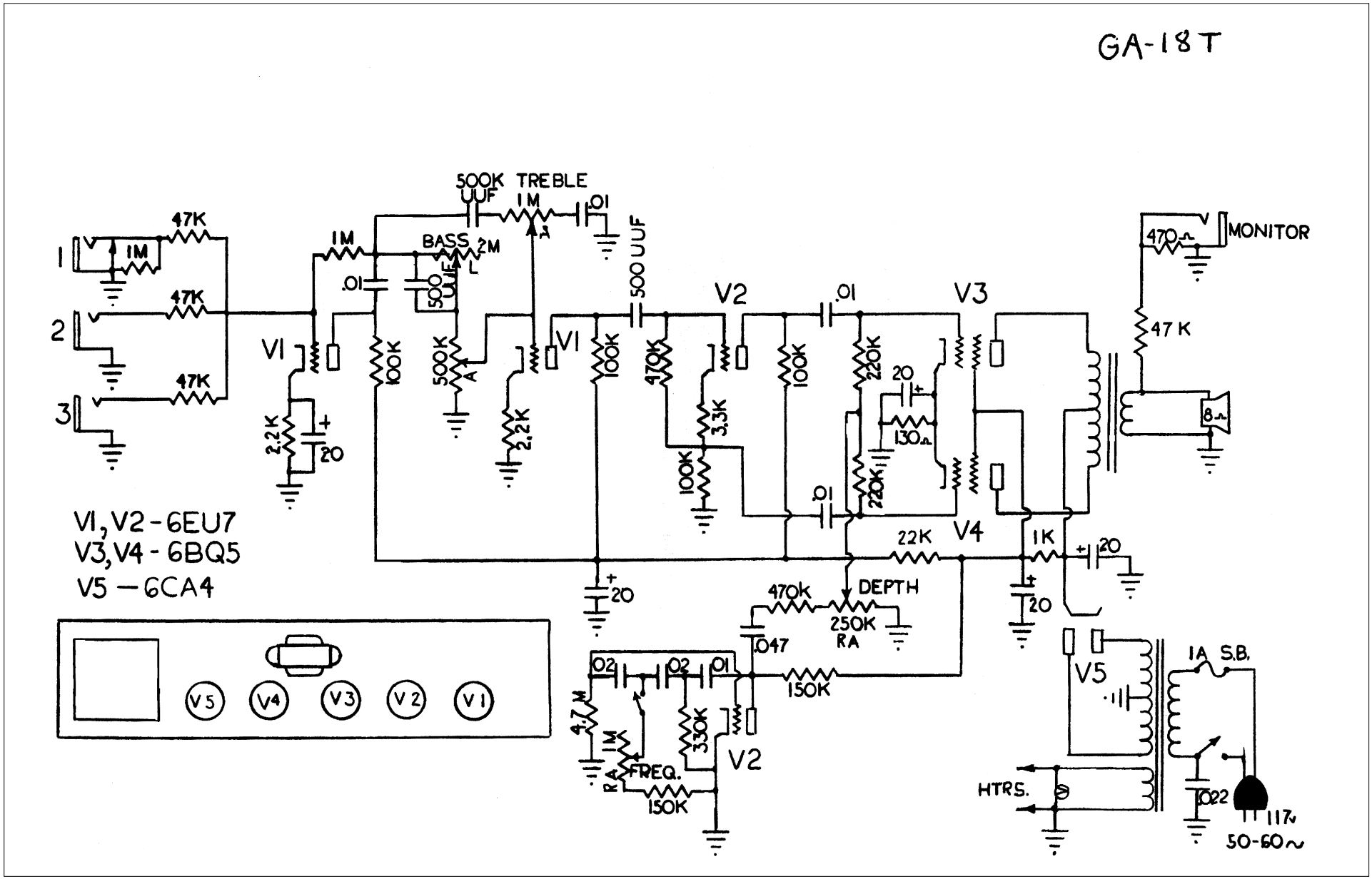
*ALL D.C. VOLTAGES MEASURED TO CHASSIS WITH 20,000 OHM/VOLT METER.

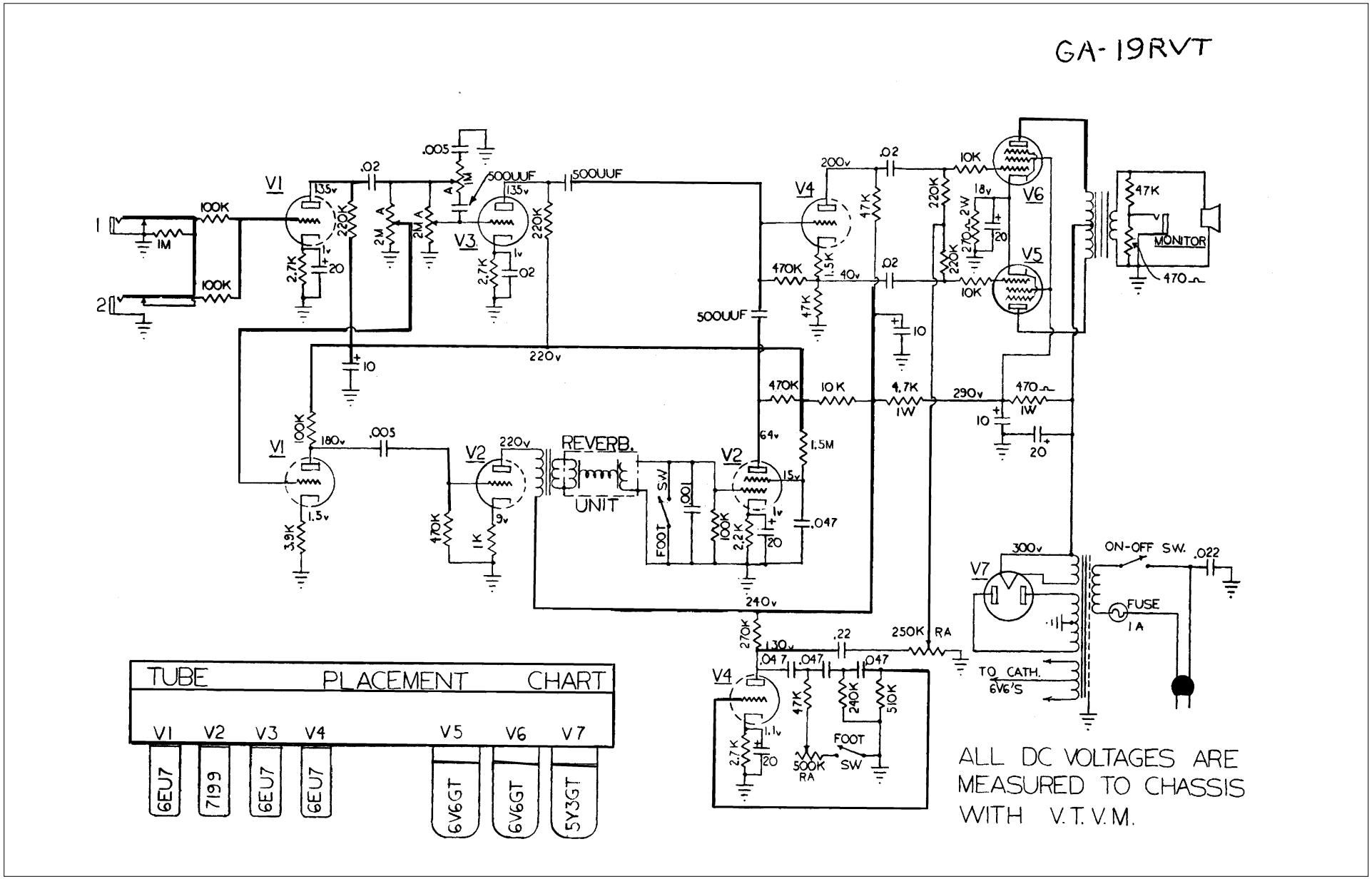

GA17RVT
SCOUT
68K R1
½6EU7 V2A
68K R2
1M R3
1K R11
2MA R10
½6EU7 V1A
T3
RV4C-1
V1B ½6EU7
2.2K R13
.001 C2
500PF C3
220K R6
220K R7
.003 C4
470K R5
500K A R8
470K R9
½6EU7 V2B
4.7K R16
470K R17
4.7K R18
100K R14
1M R15
.005 C9
.005 C10
½6EU7 V3A
470K R19
2.7K R20
100K R21
.01 C11
.01 C12
100K R22
220K R23
330K R25
220K R24
270Ω R26
6AQ5 V4
6AQ5 V5
4.7K R28
150K R34
.047 C13
3.9K R27
C20A
C20B
HTRS
6CA4 V6
T2
8Ω
T1
.022 C17
S1
117V 50-60~
1A
.022 C14
.022 C15
.01 C16
4.7M R32
150K R31
330K R30
1.5M RA R33
V3B ½6EU7
FOOT PEDAL
S2
S3
+275V
+257V
+269V
+305V
VOLTAGES TO CHASSIS WITH VTVM (11meg)
T1 POWER TRANSFORMER TF 8A-P
T2 OUTPUT " TF 18-01
T3 DRIVER " TF E6400
SPEAKER 8Ω Z, 10" S20003
R8 VOLUME CONTROL 500K AUDIO TAPER
R10 REVERB VOLUME 2MEG " "
R33 TREMOLO FREQUENCY 1.5M REV. AUDIO
S2, S3 SPST PUSH PUSH SW.
REVERBERATION UNIT RV4C-1
T1
T2
T3
V6 6CA4
6AQ5
V5
V4
6EU7
V3
V2
V1 12AX7

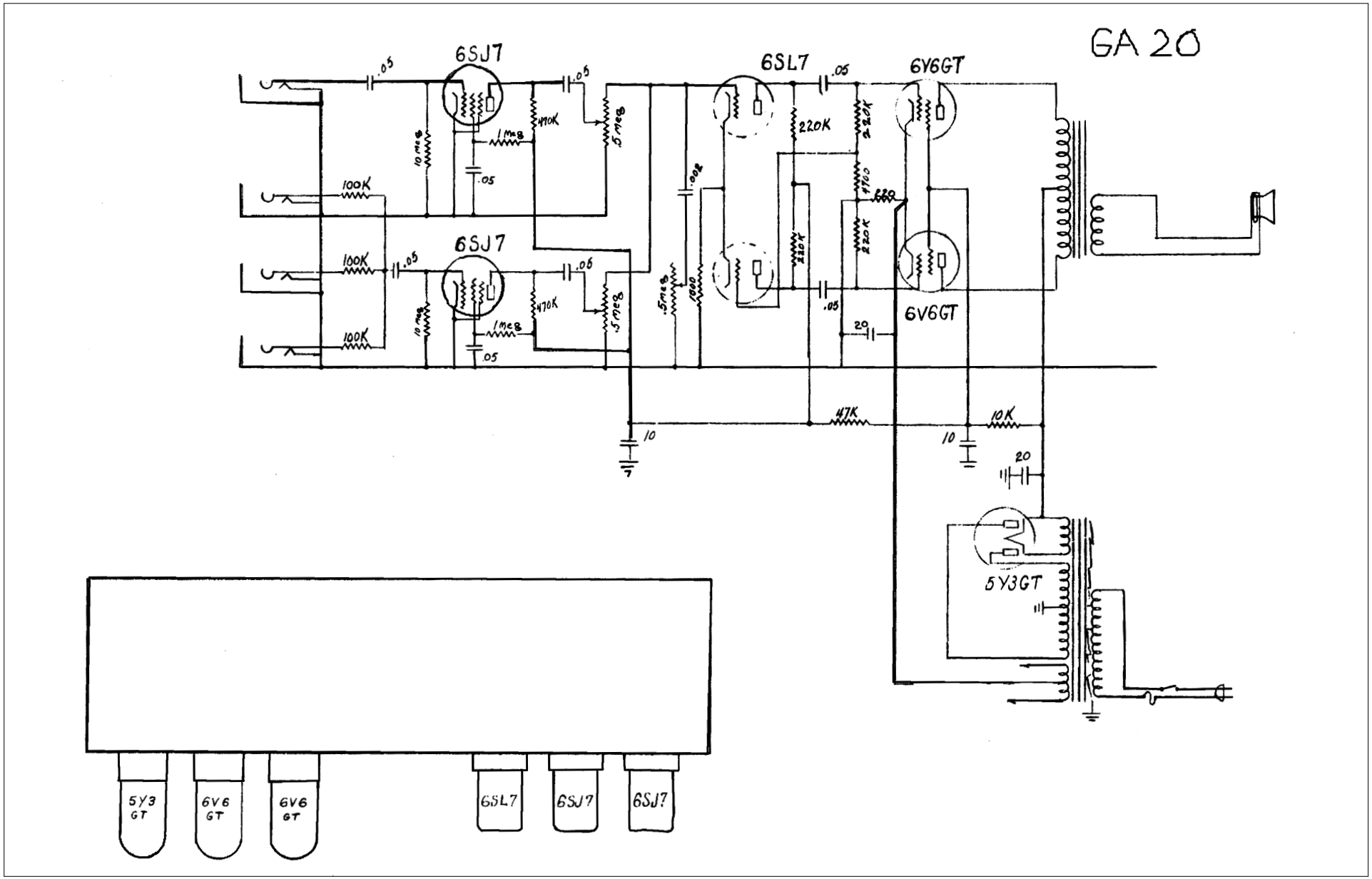


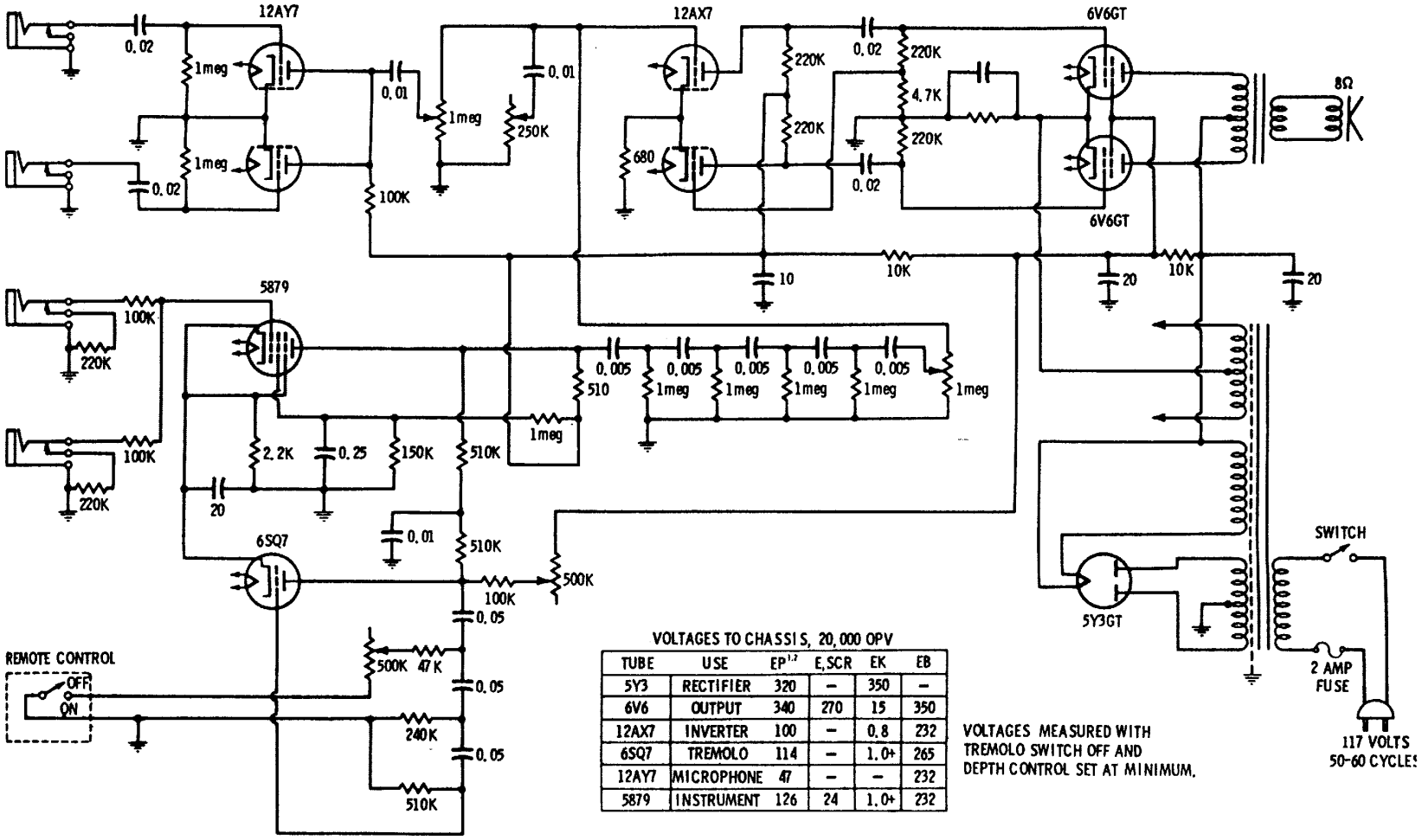
VOLTAGES TO CHASSIS WITH VTVM (11meg)

Gibson Model GA-17RVT


GA-18T
500K TREBLE
500 UUF
1M
.01
47K
1M
BASS
2M
500 UUF
.01
500 UUF
V2
.01
V3
470Ω
MONITOR
47K
1
2
3
1M
47K
47K
47K
V1
100K
500K
A
V1
100K
470K
100K
220K
20
130Ω
8Ω
2.2K
20
2.2K
3.3K
100K
220K
.01
V1, V2 - 6EU7
V3, V4 - 6BQ5
V5 — 6CA4
22K
V4
1K
20
20
20
470K
DEPTH
250K
RA
.047
150K
V5
1A S.B.
.02
.02
.01
4.7M
1M
RA
FREQ.
150K
330K
V2
HTRS.
.022
117V
50-60~
V5
V4
V3
V2
V1


GA-19RVT
V1
V2
V3
V4
V5
V6
V7
REVERB. UNIT
FOOT SW
ON-OFF SW.
FUSE 1A
MONITOR
TO CATH. 6V6'S
ALL DC VOLTAGES ARE MEASURED TO CHASSIS WITH V.T.V.M.
TUBE PLACEMENT CHART
V1 V2 V3 V4 V5 V6 V7
6EU7 7199 6EU7 6EU7 6V6GT 6V6GT 5Y3GT


GA 20
6SJ7
6SJ7
6SL7
6V6GT
6V6GT
5Y3GT
100K
100K
100K
.05
.05
.05
.05
.05
.002
.05
10 meg
10 meg
1 meg
1 meg
470K
470K
.5 meg
.5 meg
.5 meg
1000
220K
220K
220K
220K
1700
680
20
20
47K
10K
10
10
5Y3 GT
6V6 GT
6V6 GT
6SL7
6SJ7
6SJ7



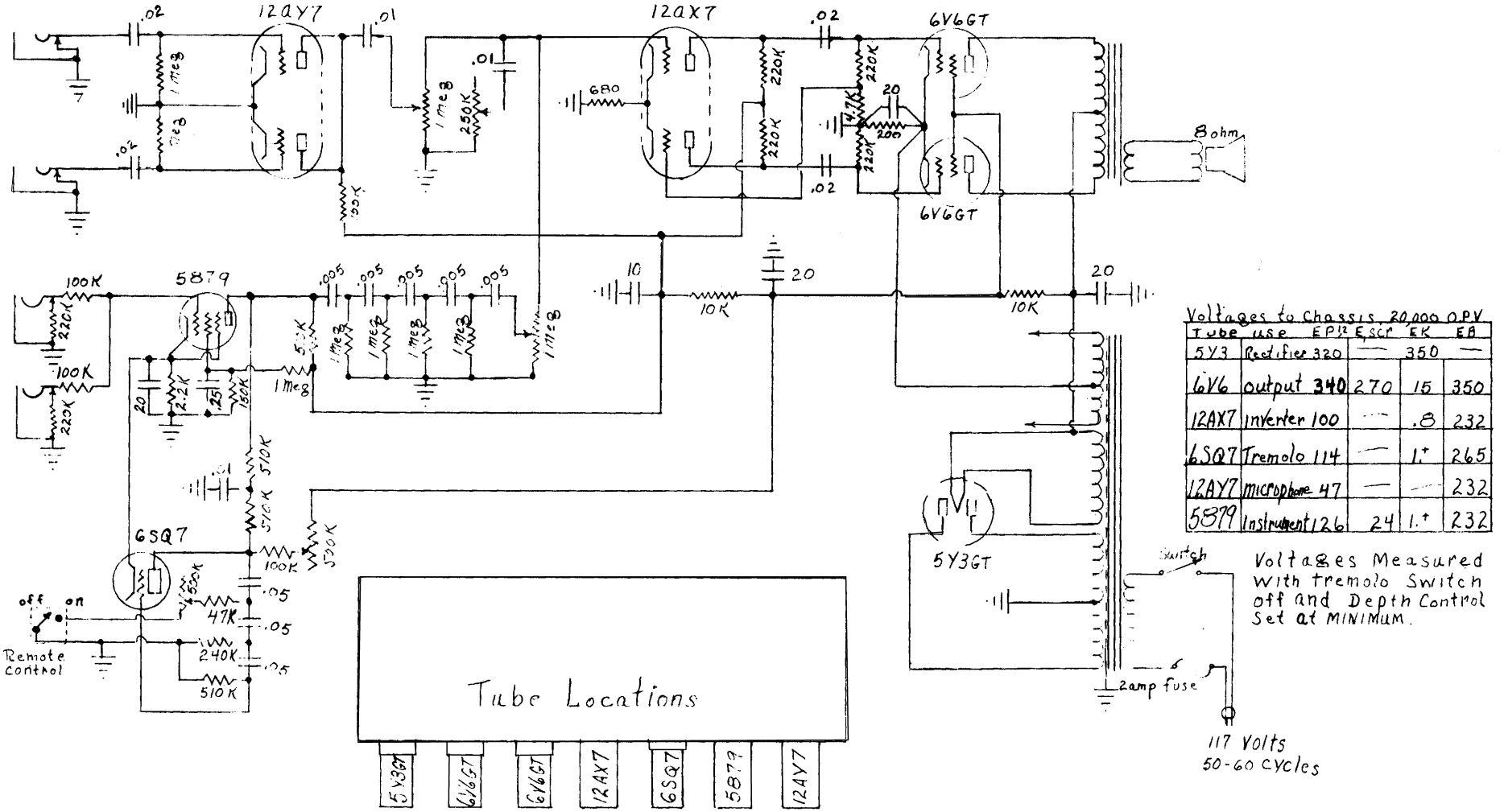
VOLTAGES TO CHASSIS, 20,000 OPV

TUBE	USE	EP[1,2]	E,SCR	EK	EB
5Y3	RECTIFIER	320	–	350	–
6V6	OUTPUT	340	270	15	350
12AX7	INVERTER	100	–	0.8	232
6SQ7	TREMOLO	114	–	1.0+	265
12AY7	MICROPHONE	47	–	–	232
5879	INSTRUMENT	126	24	1.0+	232

VOLTAGES MEASURED WITH TREMOLO SWITCH OFF AND DEPTH CONTROL SET AT MINIMUM.

Gibson Model GA-20T

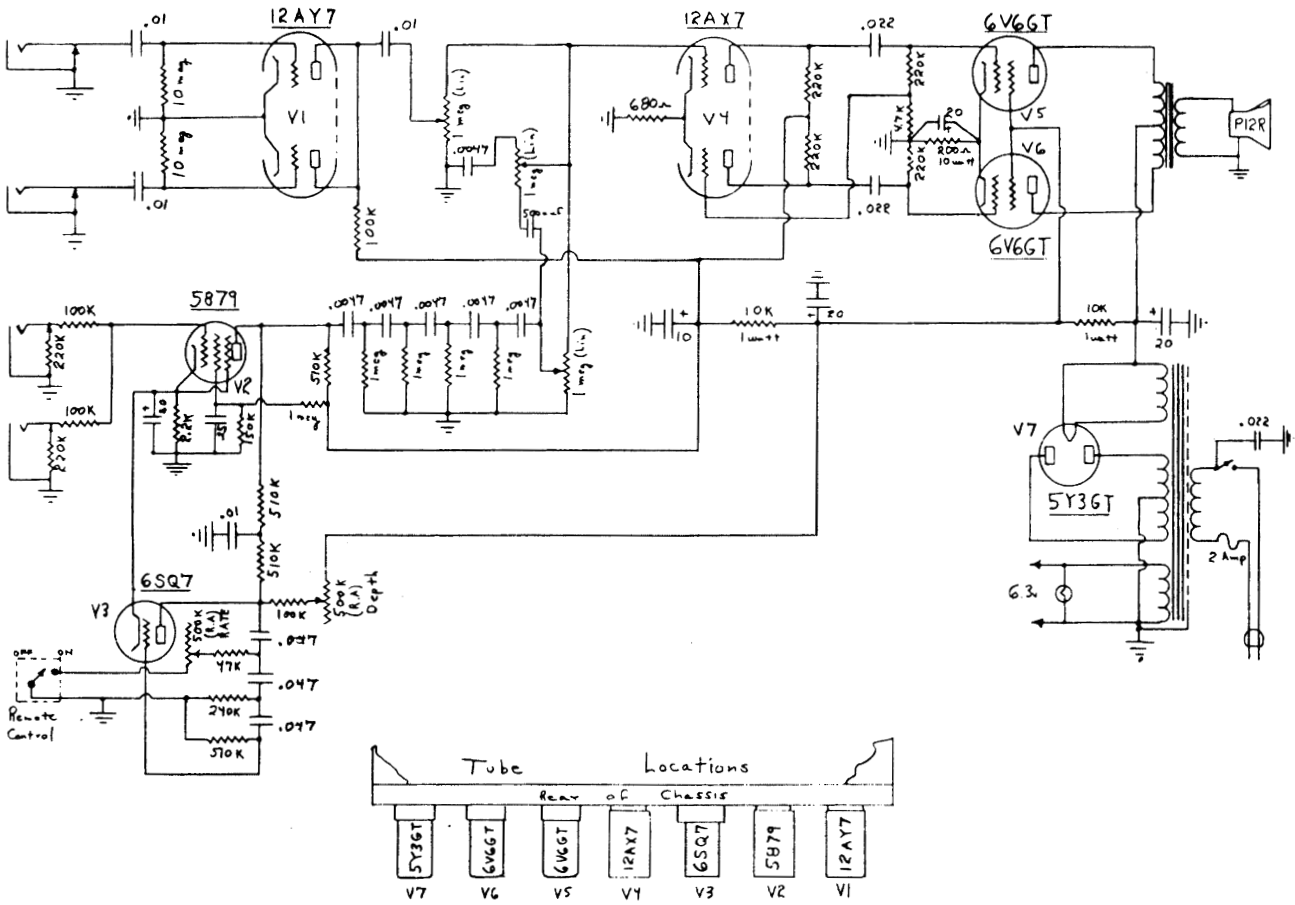
GA-20T



Voltages to Chassis, 20,000 OPV

Tube	use	EP	E scr	EK	EB
5Y3	Rectifier 320	—	— 350		—
6V6	output 340	270	15	350	
12AX7	inverter 100	—	.8	232	
6SQ7	Tremolo 114	—	1.+	265	
12AY7	microphone 47	—	—	232	
5879	Instrument 126	24	1.+	232	

Voltages Measured with tremolo Switch off and Depth Control Set at MINIMUM.



Voltages To Chassis, 29,000 ~

No	Type	E_p	E_{sg}	E_g	E_K
V1	12AY7	55	—	-.8 **	0
V2	5879	115	24	0	1.2
V3	6SQ7	105	—	0	1.2
V4	12AX7	105	—	0	.85
V5-6	6V6GT	350	260	0	15
V7	5Y3GT	320 RMS	—	—	355

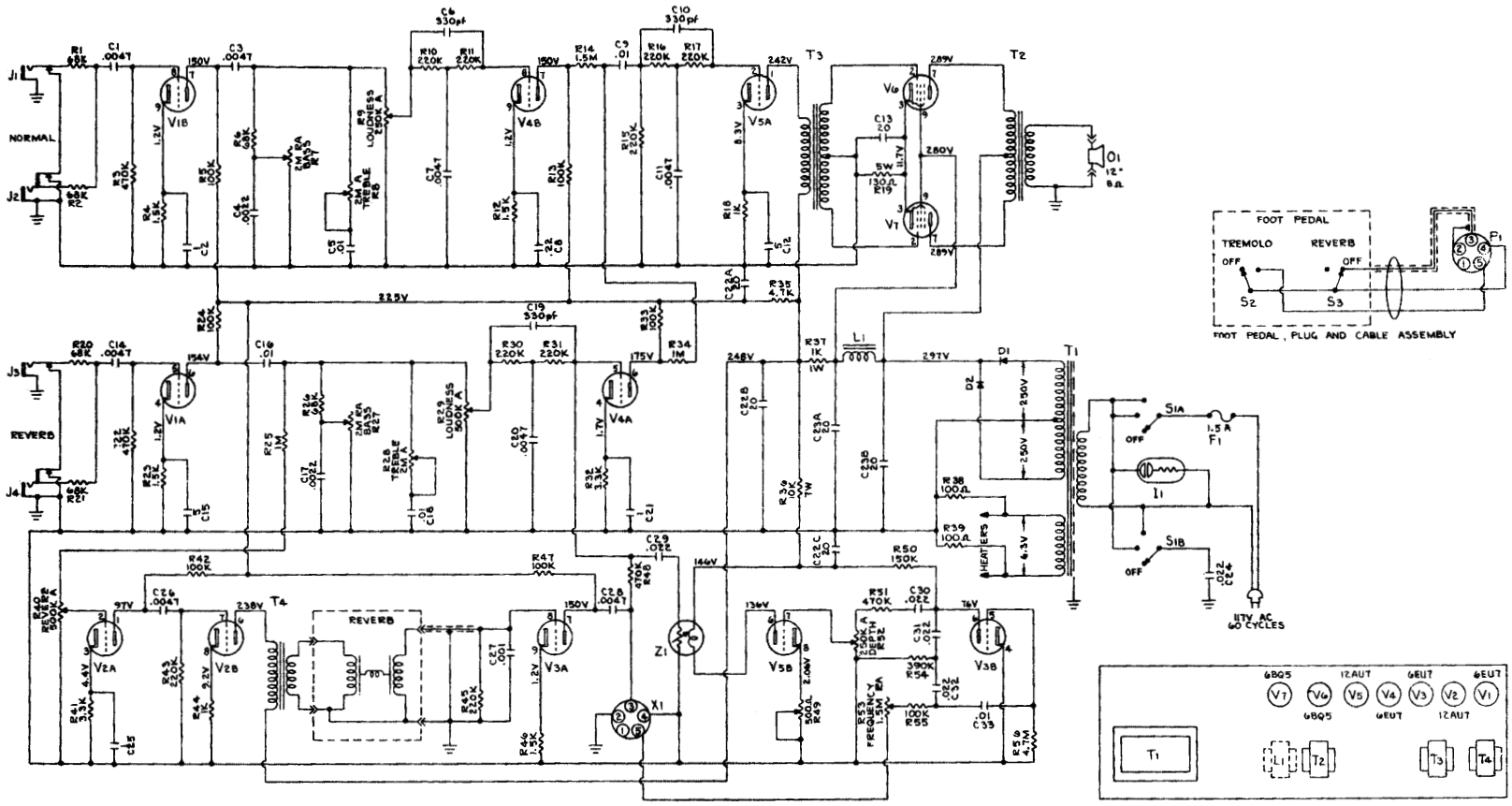
Voltages measured with Tremolo Switch off and Depth Control set at minimum.

** measured with VTVM

GIBSON MUSICAL INSTRUMENT AMPLIFIER MODEL GA-20T (RANGER)

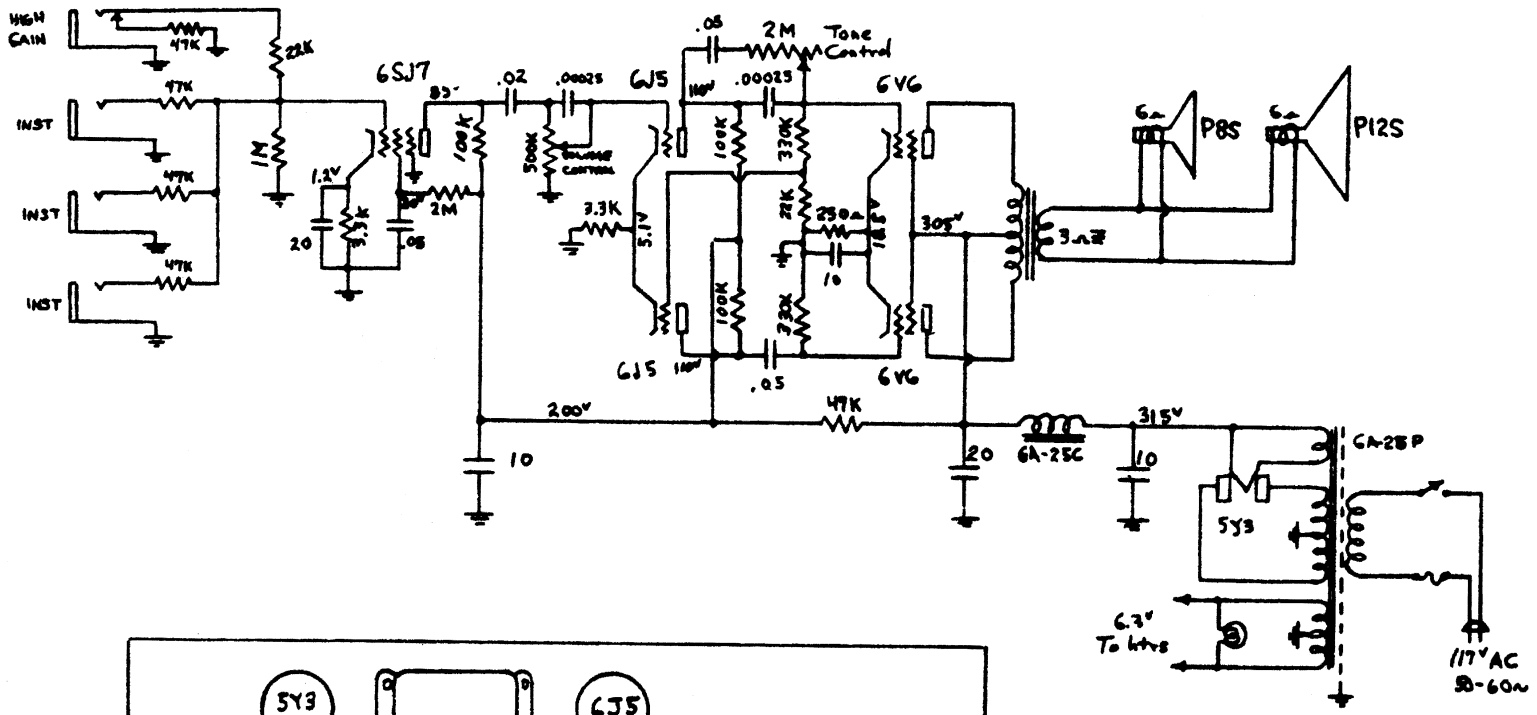
COURTESY OF GIBSON INC.

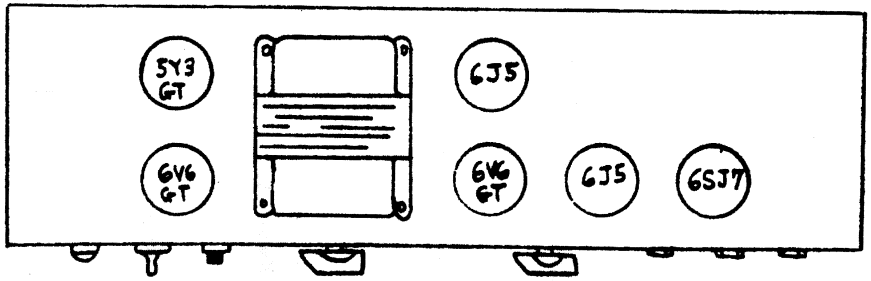
GA-20RVT



T1	TF-105P-1	Power Transformer	R9,R52	CBA-4008	Control - 250K, Audio (Loudness & Depth)
T2	TF-504-0	Output Transformer	R8,R28	CBA-811-3702-1	Control - 2 meg, Audio (Treble)
T3	TF-1001D-1	PP Driver Transformer	R29,R30	CBA-4007	Control - 500K, Audio (Loudness & Reverb)
T4	TF-B6400	Reverb Transformer	R53	CBA-811-3711-1	Control - 1.5 meg, RA (Frequency)
L1	TF-1003-C	Filter Choke	R7,R27	CBA-813-222-1	Control - 2 meg, RA (Bass)
			R49	CB-23391	Control - 500 ohm, WW
S1A,B	SW-899-1	Switch - SPST Rotary			
S2,S3	SW-2203	Switches - SPST			
I1	PL-35R	Pilot Light (Neon) w/clip			
X1	CL-78PCU-5	Foot Pedal Socket			
P1	CW-91MPM-5L	Foot Pedal Plug			
D1,D2	DI-404	Diode - 800 PIV			

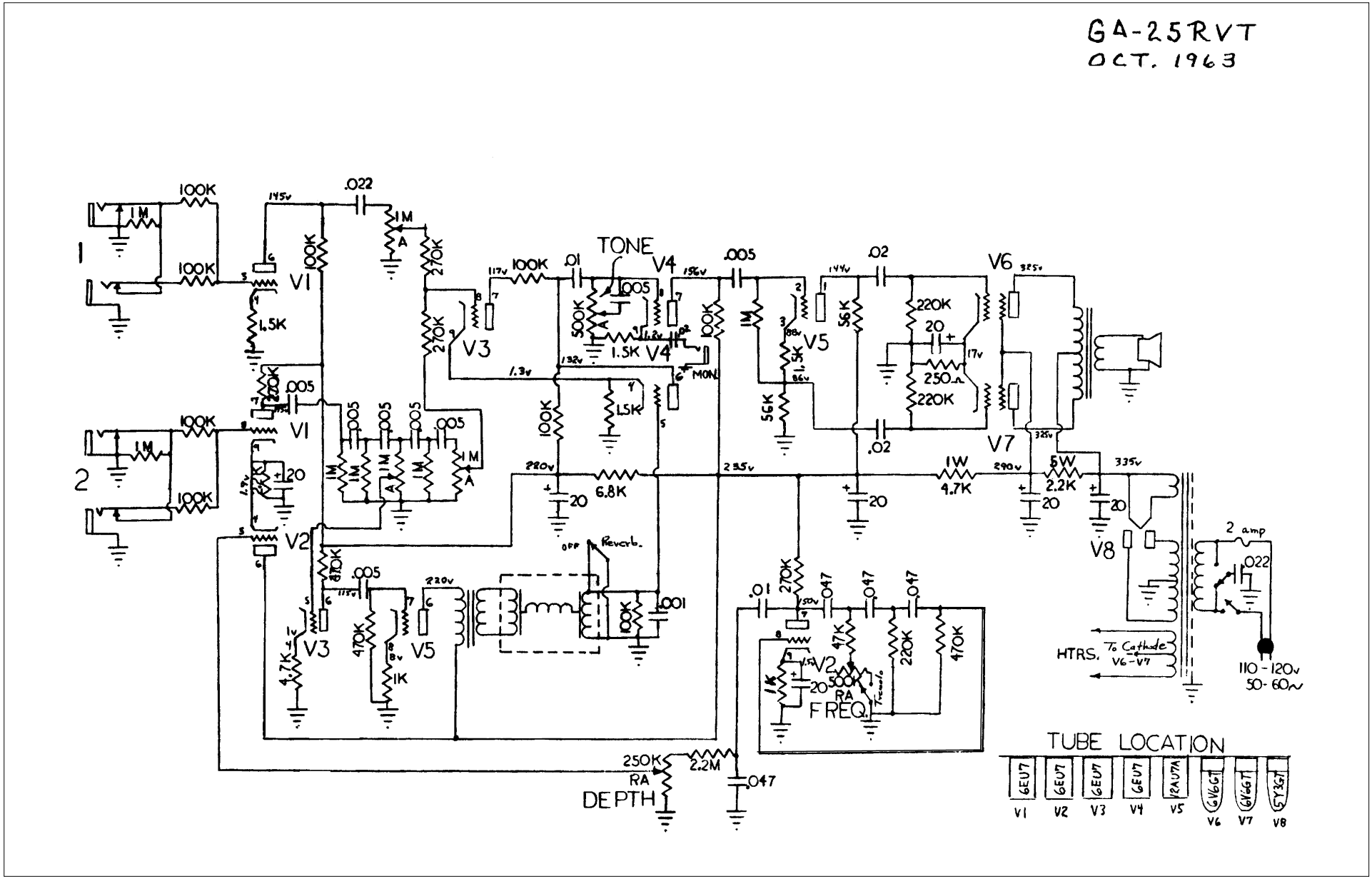
GA-25

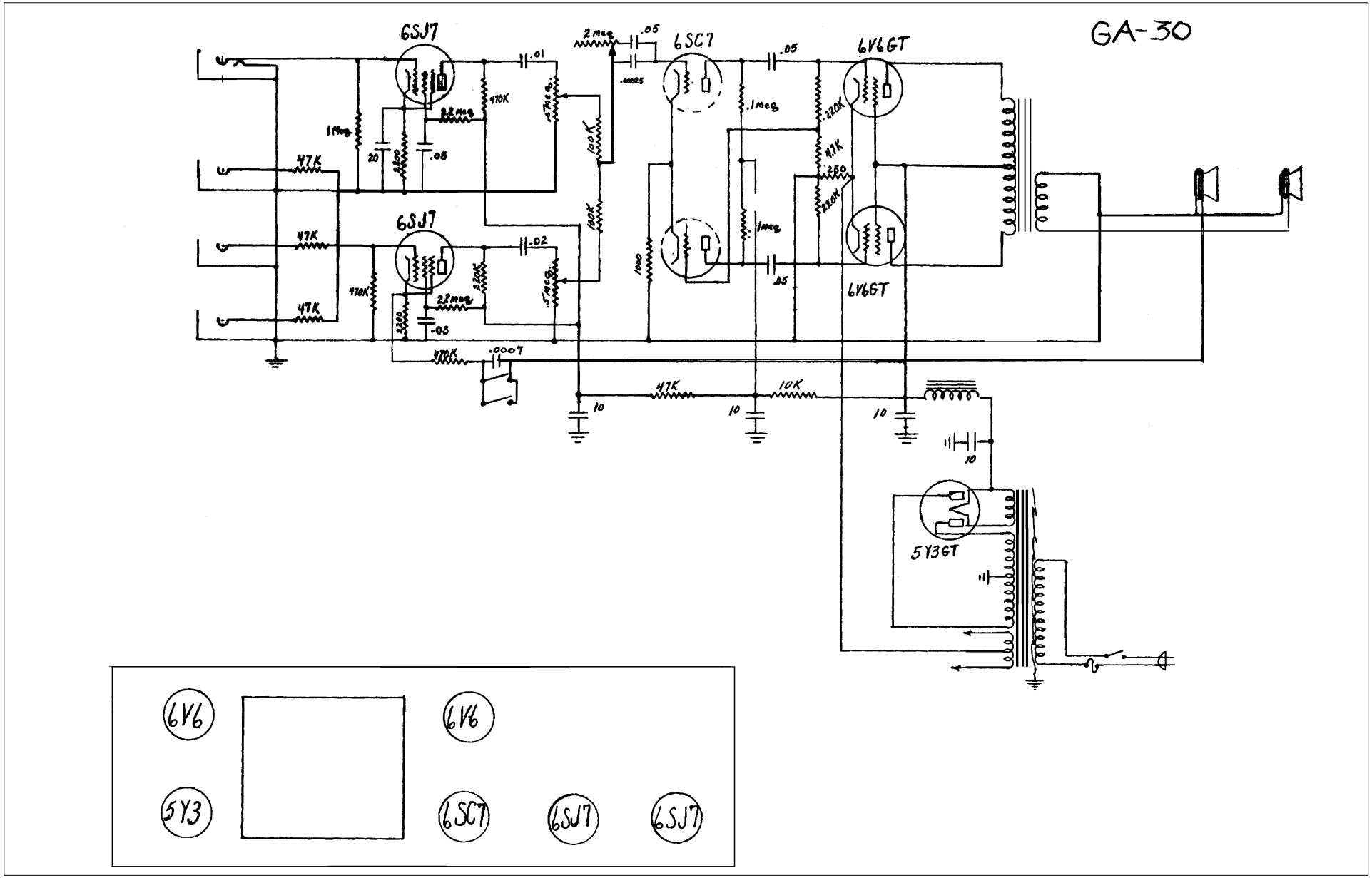


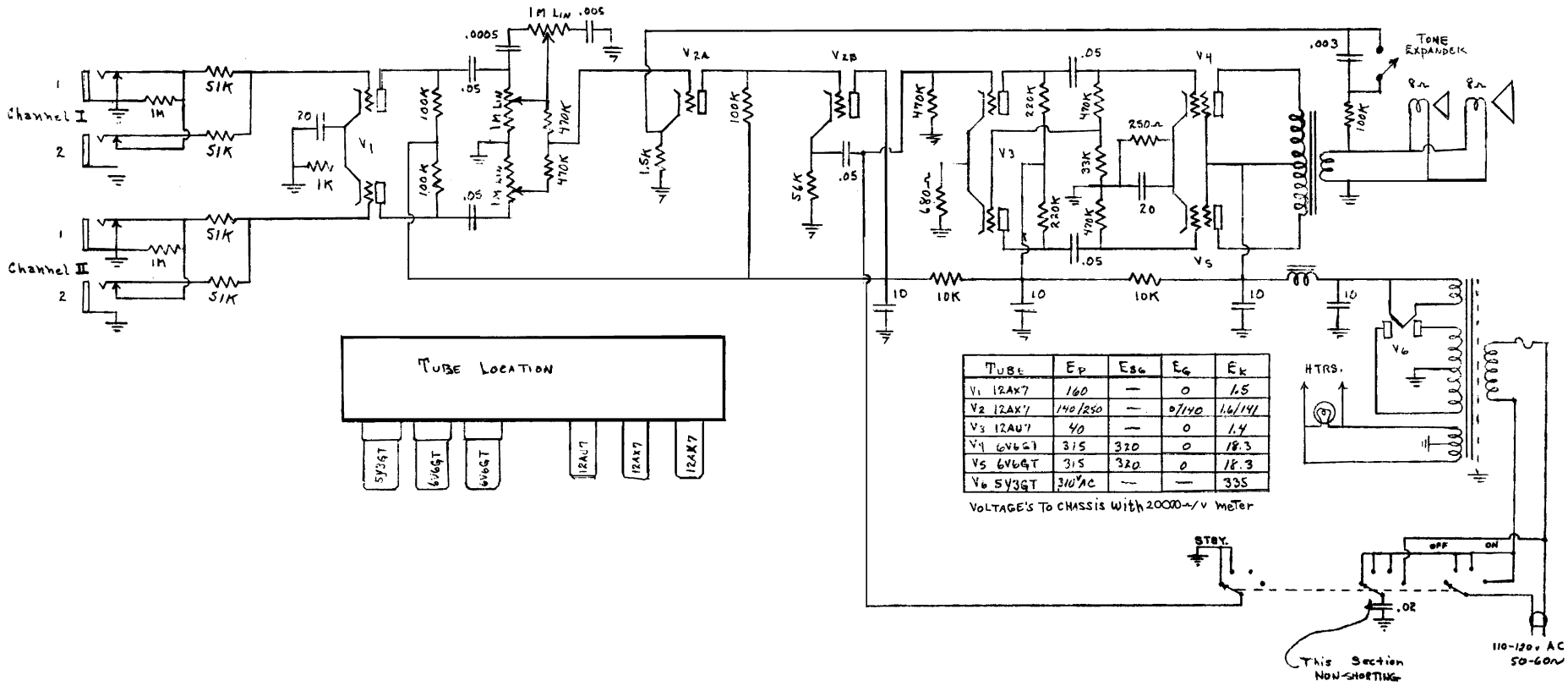


All plate, Screen & Cathode Voltages measured To Chassis

GIBSON INC	Schematic	
	24 Jan 61	MCP


GA-25RVT
OCT. 1963
TONE
V1
V2
V3
V4
V5
V6
V7
V8
FREQ
DEPTH
Reverb.
HTRS. To Cathode V6-V7
110-120v 50-60~
2 amp
TUBE LOCATION
6EU7
6EU7
6EU7
6EU7
12AU7A
6V6GT
6V6GT
5Y3GT
V1
V2
V3
V4
V5
V6
V7
V8

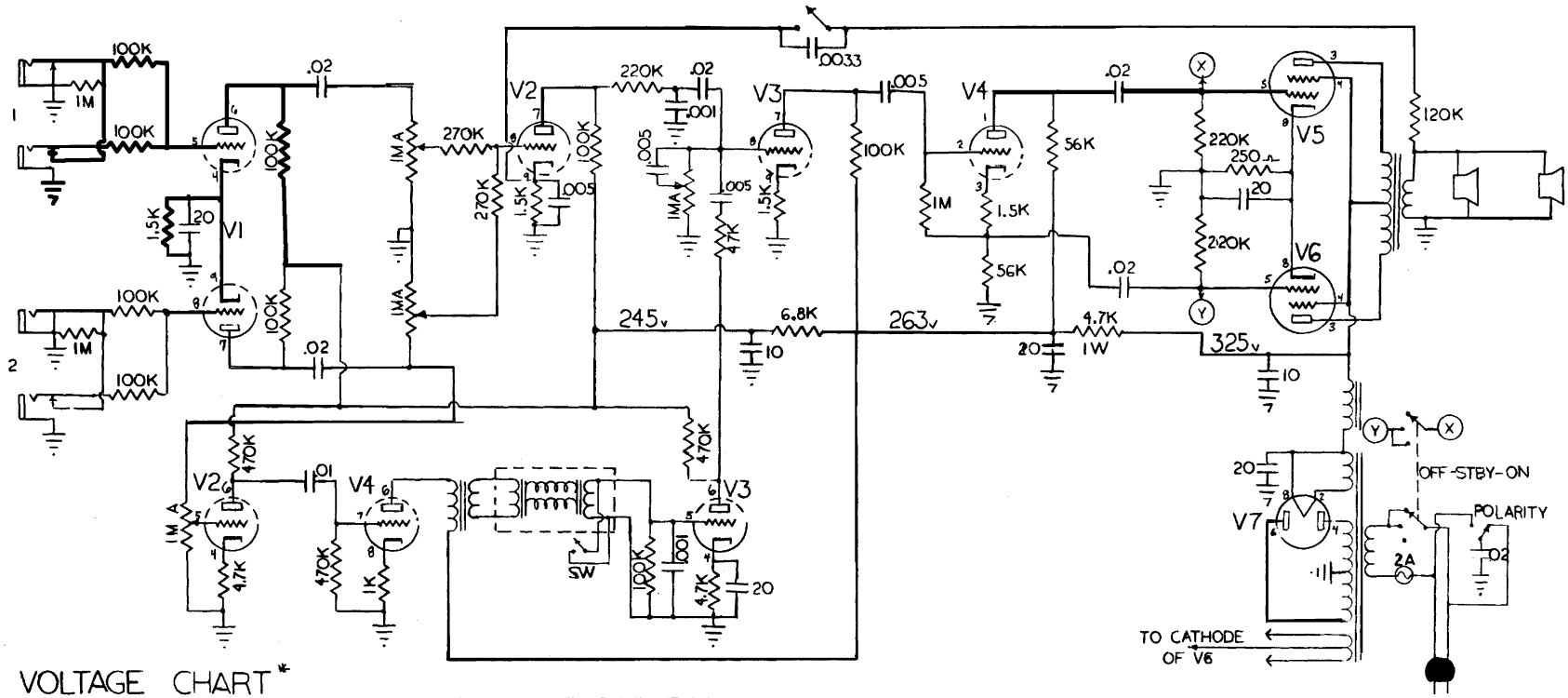

GA-30
6SJ7
6SC7
6V6GT
6SJ7
6V6GT
5Y3GT
2meg
.05
.0025
.01
470K
.1meg
100K
100K
1meg
220K
47K
250
220K
1meg
.05
1000
.02
470K
220K
.22meg
.05
47K
470K
.0007
47K
10K
10
10
10
10
6V6
6V6
5Y3
6SC7
6SJ7
6SJ7



TUBE	Ep	Esg	Eg	Ek
V1 12AX7	160	—	0	1.5
V2 12AX7	140/250	—	0/140	1.6/141
V3 12AU7	40	—	0	1.4
V4 6V6GT	315	320	0	18.3
V5 6V6GT	315	320	0	18.3
V6 5Y3GT	310VAC	—	—	335

VOLTAGE'S TO CHASSIS WITH 20000~/v METER

GA-30RV

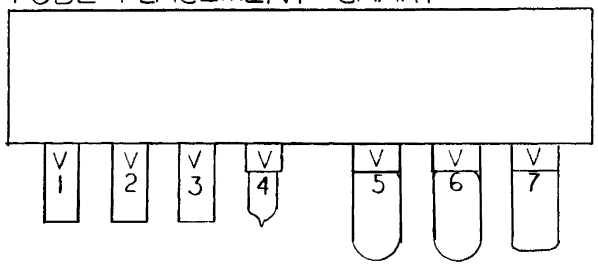


VOLTAGE CHART*

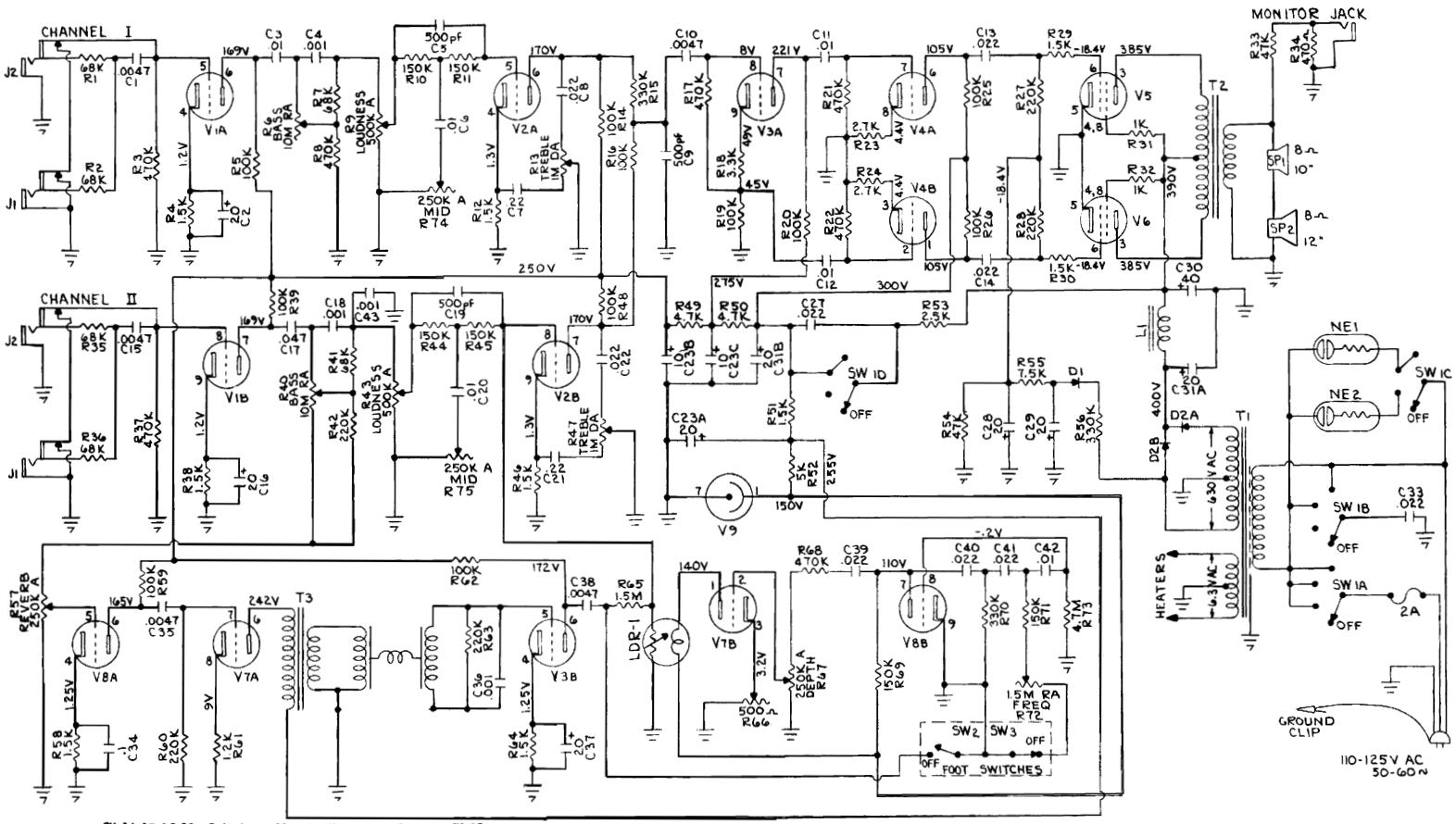
NO.	TYPE	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8	PIN 9
V1	6EU7	FIL	FIL	—	1.75	0	190	190	0	1.75
V2	6EU7	FIL	FIL	—	1.25	0	122	160	0	1.20
V3	6EU7	FIL	FIL	—	1.20	0	122	180	0	1.30
V4	12AU7A	170	54	105	FIL	FIL	250	0	8.6	FIL
V5	6V6GT	0	FIL	320	325	0	—	FIL	18	—
V6	6V6GT	0	FIL	320	325	0	—	FIL	18	—
V7	5Y3GT	—	FIL	—	320 AC	—	320 AC	—	330	—

*MEASURED TO CHASSIS WITH 20,000 OHM/VOLT METER.

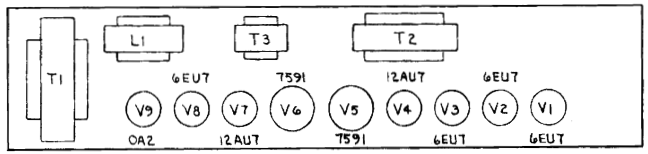
TUBE PLACEMENT CHART

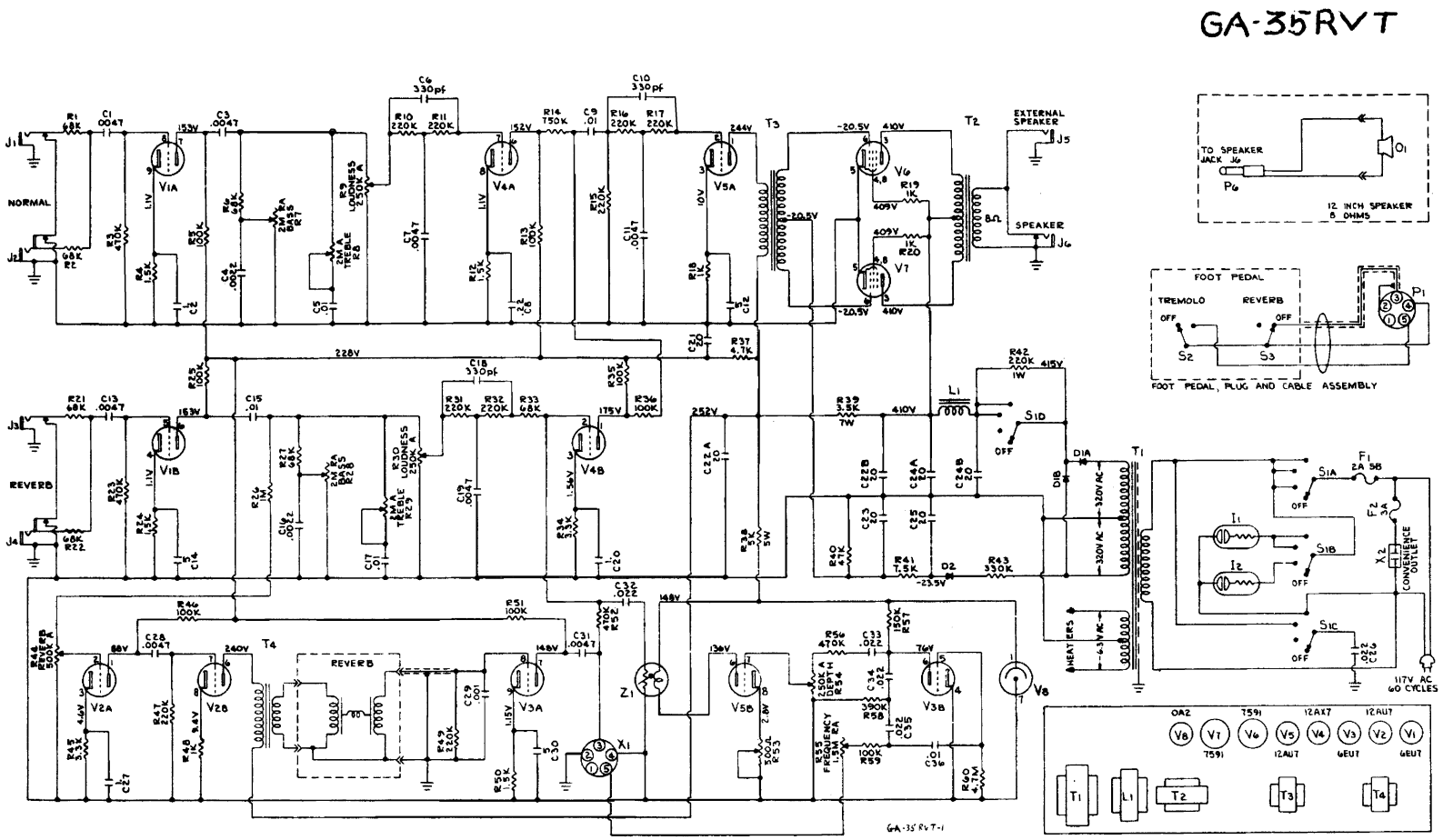


GA-30RVT



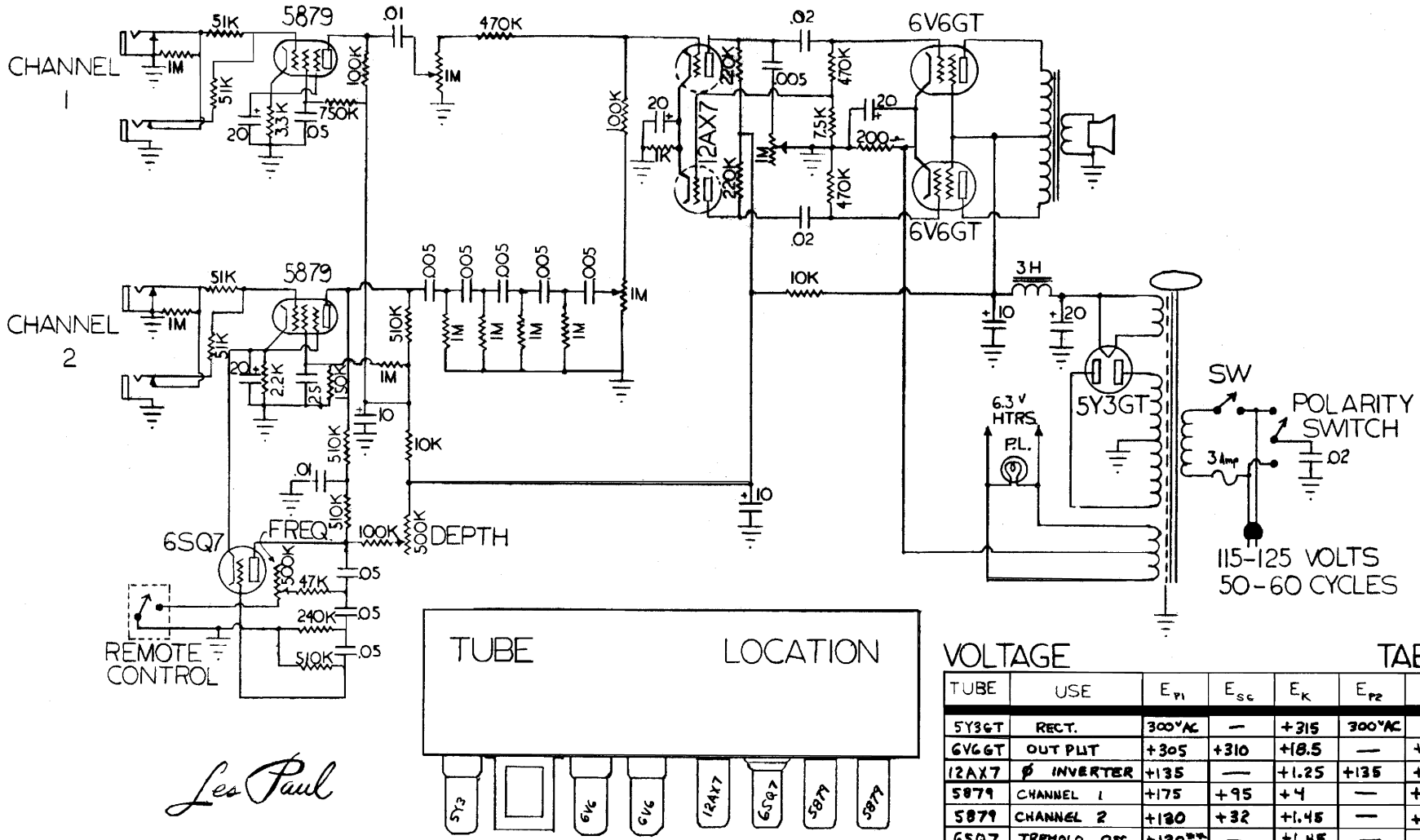
SW-1A,1B,1C,1D	Switch - off, standby, on-on Rotary	SW-78
SW-2,SW-3	Switches - push, push	SW-82403
T1	Power Transformer	TF-100P
T2	Output Transformer	TF-P-6417-1
T3	Reverberation Transformer	TF-K-6400
L1	Filter Choke	TF-3021-H
D1	Diode 600 PIV, 250 MA	DI-71B
D2A,D2B	Diode 1200 PIV, 250 MA	DI-57
R57,R67,R74,R75	Controls - 250K, C2 Audio(Reverb,Depth)	CBA-811-3701
R9,R43	Controls - 500K, C2 Audio(Loudness)	CBA-811-3707
R6,R40	Controls - 10 meg,C3 RA (Base)	CBA-811-3710
R72	Control - 1.5 meg, C3 RA (Frequency)	CBA-811-3711
R13,R47	Controls - 1 meg - 30% RA (Treble)	CBA-813-4001
R66	Control - 500 ohm wire wound	CB-23391





T1	Power Transformer	TF-104P	DIA,B	Diode - 1200 PIV	DI-57
T2	Output Transformer	TF-P6417	D2	Diode	600 PIV DI-71B
T3	PP Driver Transformer	TF-1001D-1			
T4	Reverb Transformer	TF-E6400			
LI	Filter Choke	TF-3021H			
S1A,B,C,D	Switch - off, standby, n-On	SW-78A-1			
S2,S3	Switches - SPST	SW-82403			
I1	PL-37R Pilot Light (Red)	XI	CN-78PCG-5	Foot Pedal Socket	
I2	PL-38A Pilot Light (Amb r)	X2	CN-303	AC Convenience Outlet	

R9,R30,R54	Control - 250K, Audio	CBA-4008
R8, R29	Control - 2 meg, audio	CBA-811-3702-1
R44	Control - 500K Audio	CBA-4007
R55	Control - 1.5 meg, RA	CBA-811-3711-1
R7, R28	Control - 1 meg, audio	CBA-811-3709-1



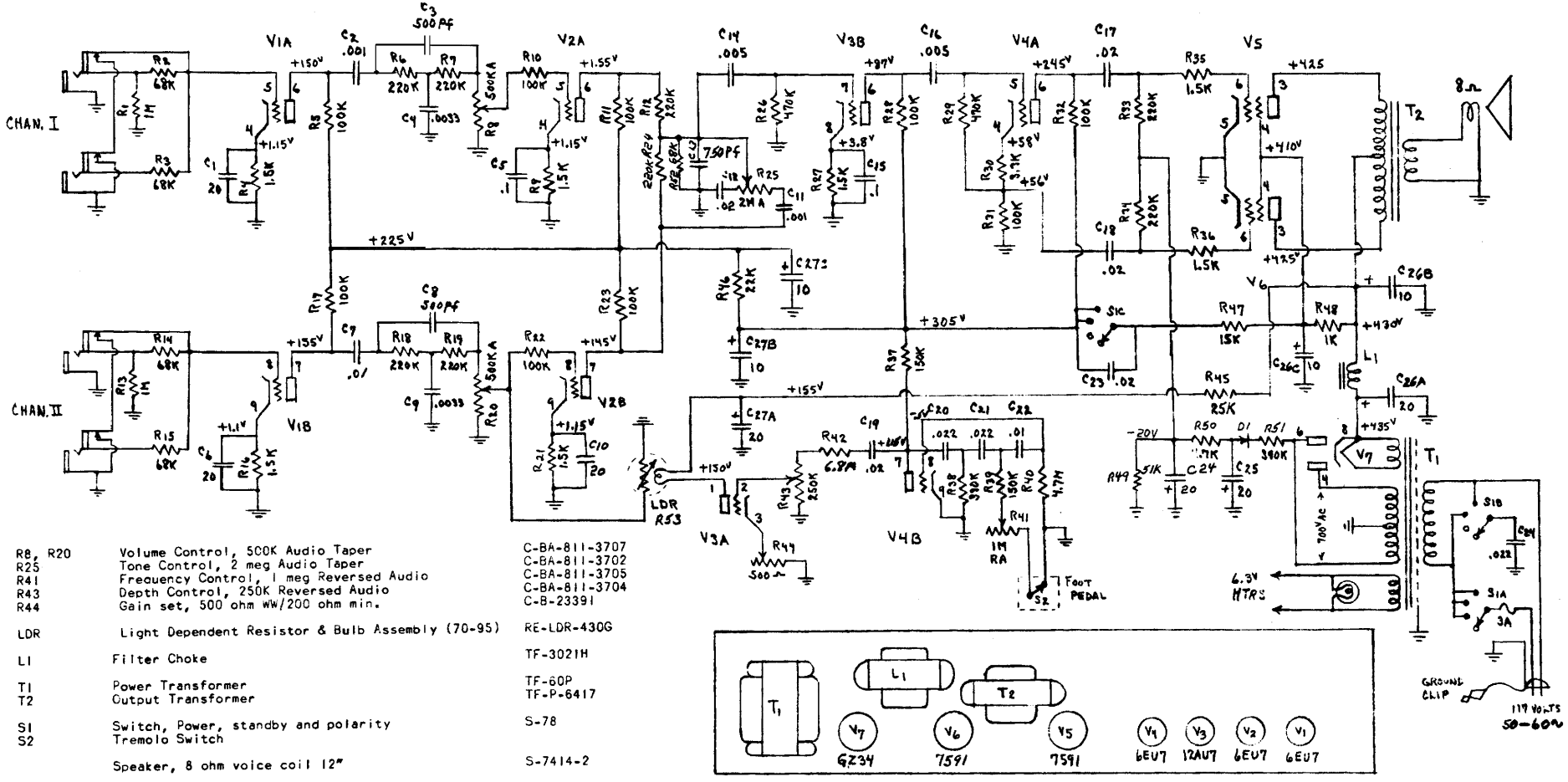
Les Paul

VOLTAGE TABLE

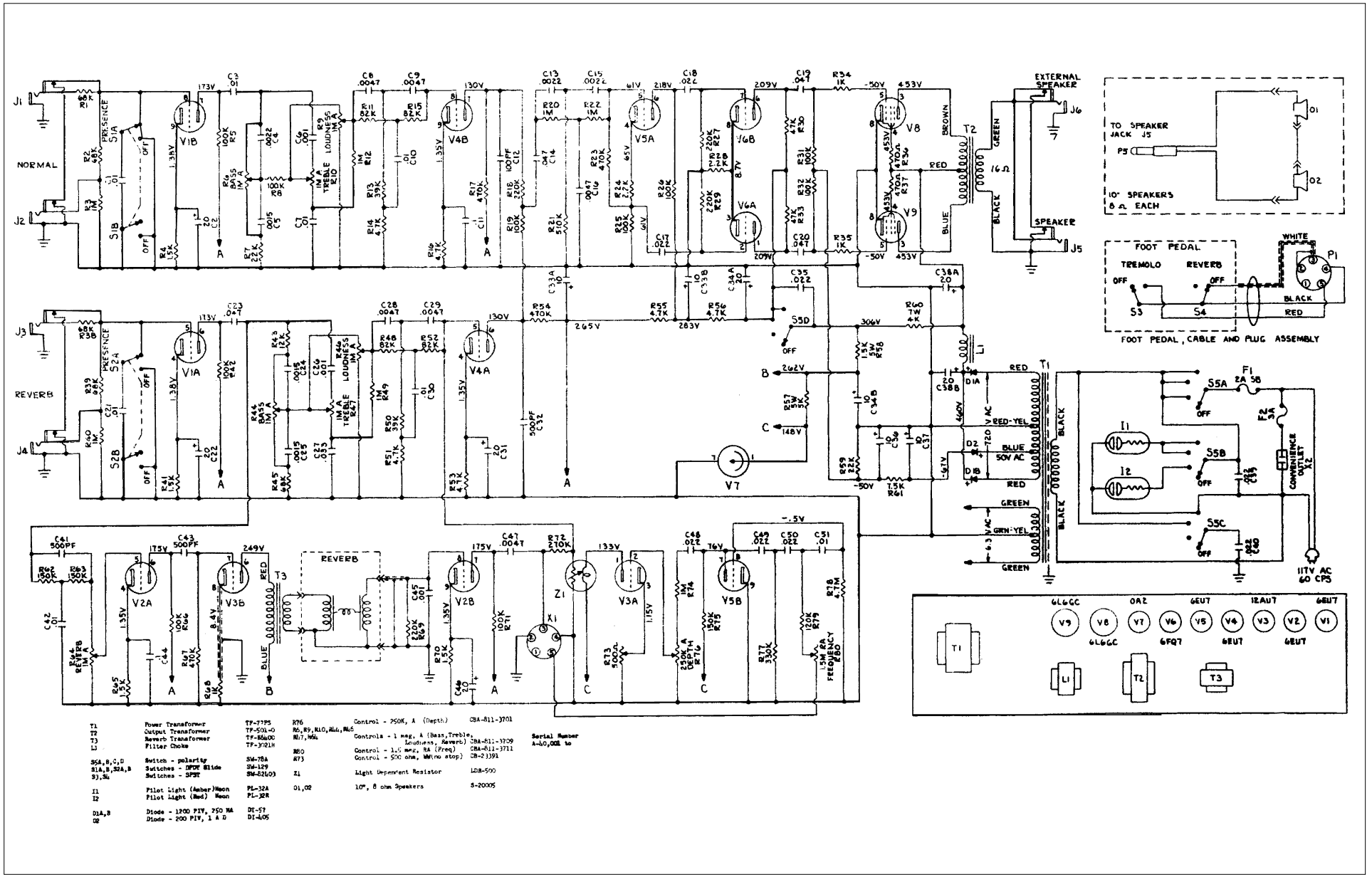
TUBE	USE	E_{P1}	E_{SG}	E_K	E_{P2}	E_{B+}
5Y3GT	RECT.	300 VAC	—	+315	300 VAC	—
6V6GT	OUT PUT	+305	+310	+18.5	—	+310
12AX7	Ø INVERTER	+135	—	+1.25	+135	+280
5879	CHANNEL 1	+175	+95	+4	—	+265
5879	CHANNEL 2	+180	+32	+1.45	—	+265
6SQ7	TREMOLO OSC.	+130**	—	+1.45	—	—

*VOLTAGES TO CHASSIS WITH 20,000 O.P.V. METER.

**TREMOLO "OFF", DEPTH "MIN".

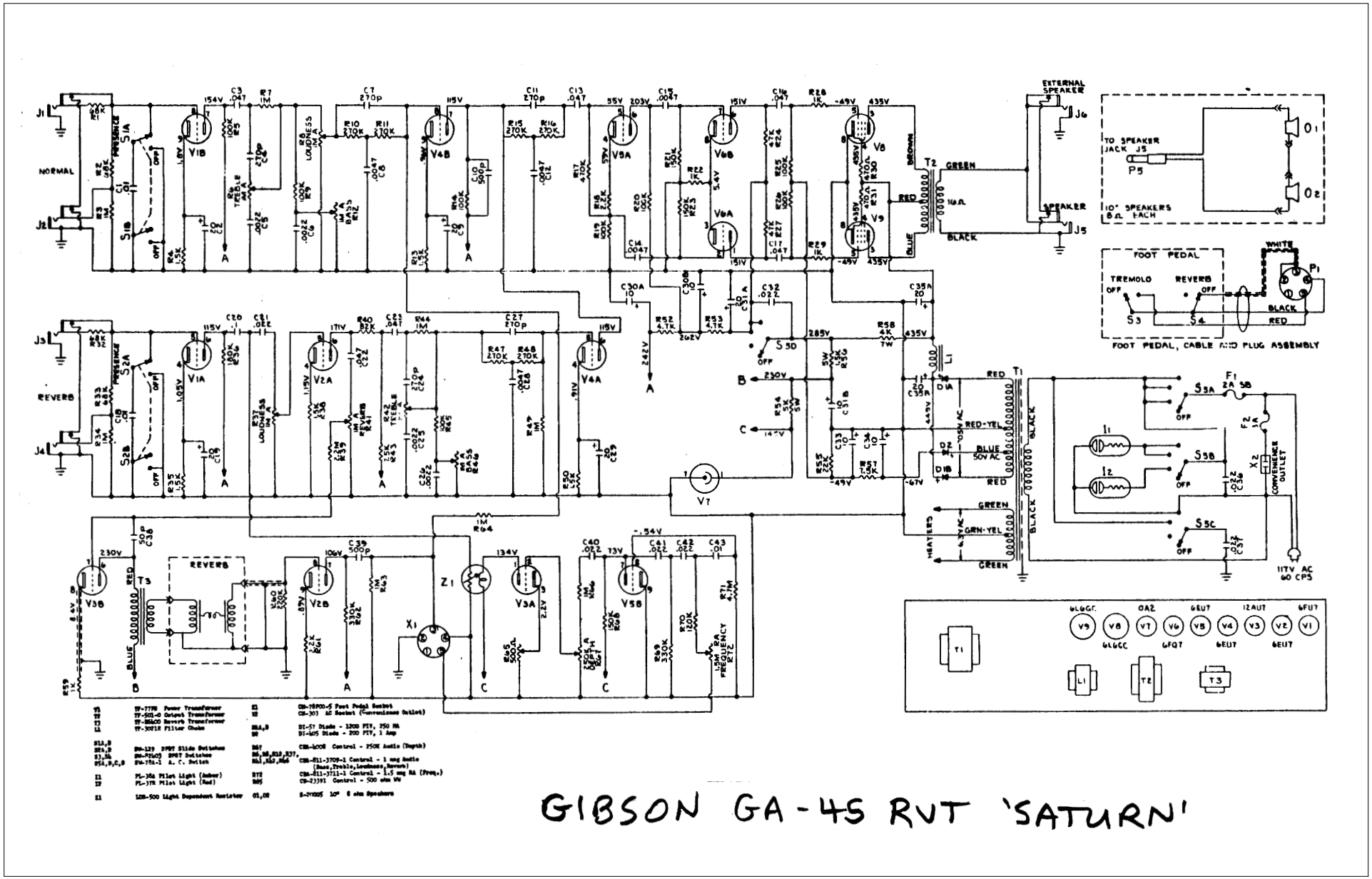


R8, R20	Volume Control, 500K Audio Taper	C-BA-811-3707
R25	Tone Control, 2 meg Audio Taper	C-BA-811-3702
R41	Frequency Control, 1 meg Reversed Audio	C-BA-811-3705
R43	Depth Control, 250K Reversed Audio	C-BA-811-3704
R44	Gain set, 500 ohm WW/200 ohm min.	C-B-23391
LDR	Light Dependent Resistor & Bulb Assembly (70-95)	RE-LDR-430G
L1	Filter Choke	TF-3021H
T1	Power Transformer	TF-60P
T2	Output Transformer	TF-P-6417
S1	Switch, Power, standby and polarity	S-78
S2	Tremolo Switch	
	Speaker, 8 ohm voice coil 12"	S-7414-2

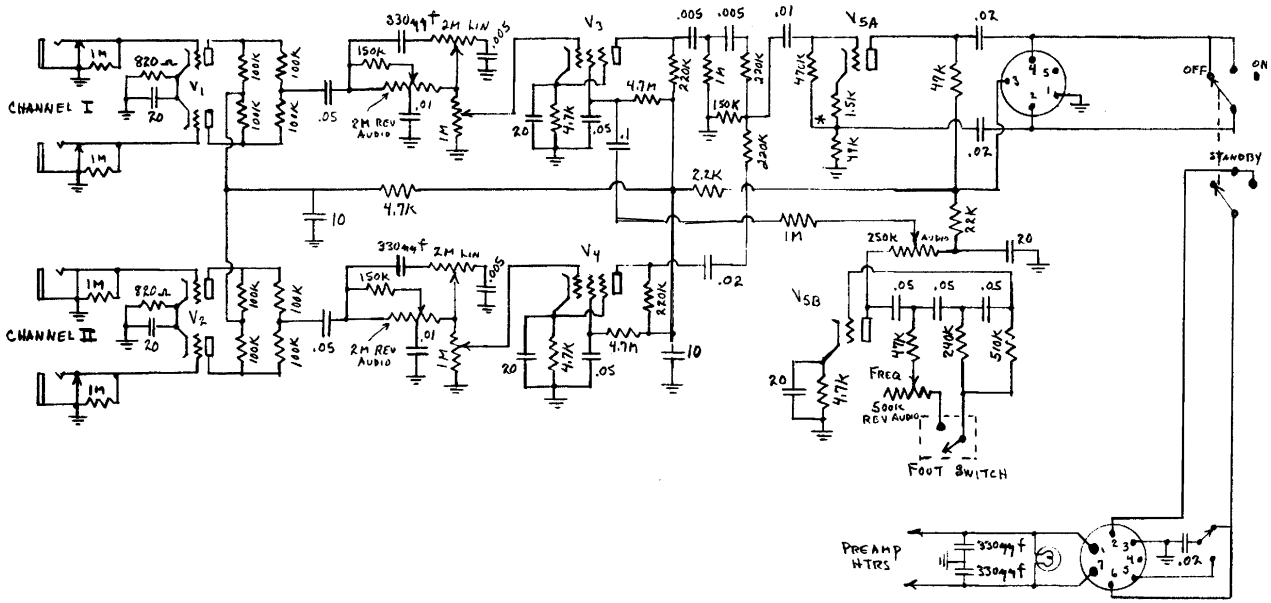


T1	Power Transformer	TF-77P5	R76	Control - 250K, A (Depth)	CBA-811-3701
T2	Output Transformer	TF-501-O	R6,R9,R10,R44,R45	Controls - 1 meg, A (Bass,Treble, Loudness, Reverb)	CBA-811-3709
T3	Reverb Transformer	TF-R6A0C	R17,R54		
L1	Filter Choke	TF-3P2LH	R60	Control - 1.5 meg, BA (Freq)	CBA-811-3711
S5A,B,C,D	Switch - polarity	SW-78A	R73	Control - 500 ohm, WW(no stop)	CB-23391
S1A,B,S2A,B S3,S4	Switches - DPDT Slide Switches - SPST	SW-129 SW-82403	Z1	Light Dependent Resistor	LDR-500
I1	Pilot Light (Amber)Neon	PL-32A	J1,J2	10", 8 ohm Speakers	S-20005
I2	Pilot Light (Red) Neon	PL-32R			
D1A,B	Diode - 1200 PIV, 250 MA	DI-57			
D2	Diode - 200 PIV, 1 A D	DI-405			

Serial Number A-40,001 to

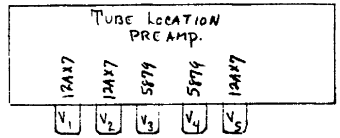

NORMAL
REVERB
FOOT PEDAL
TREMOLO
REVERB
FOOT PEDAL, CABLE AND PLUG ASSEMBLY
EXTERNAL SPEAKER
TO SPEAKER JACK J5
10" SPEAKERS 8Ω EACH
SPEAKER
BLACK
RED
GREEN
WHITE
BLUE
BROWN
HEATERS
CONVENIENCE OUTLET
117V AC 60 CPS
REVERB
GIBSON GA-45 RVT 'SATURN'

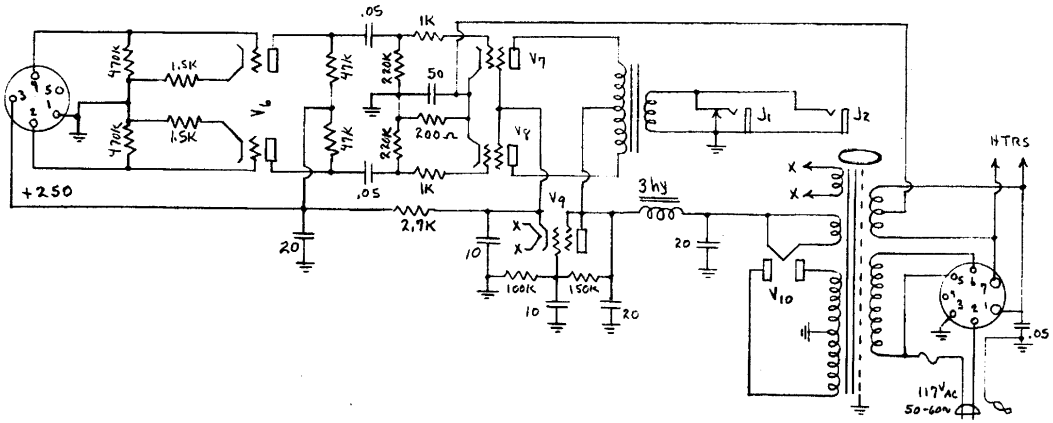
GA-46

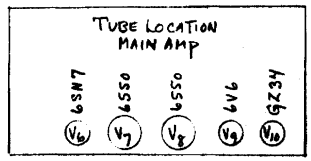


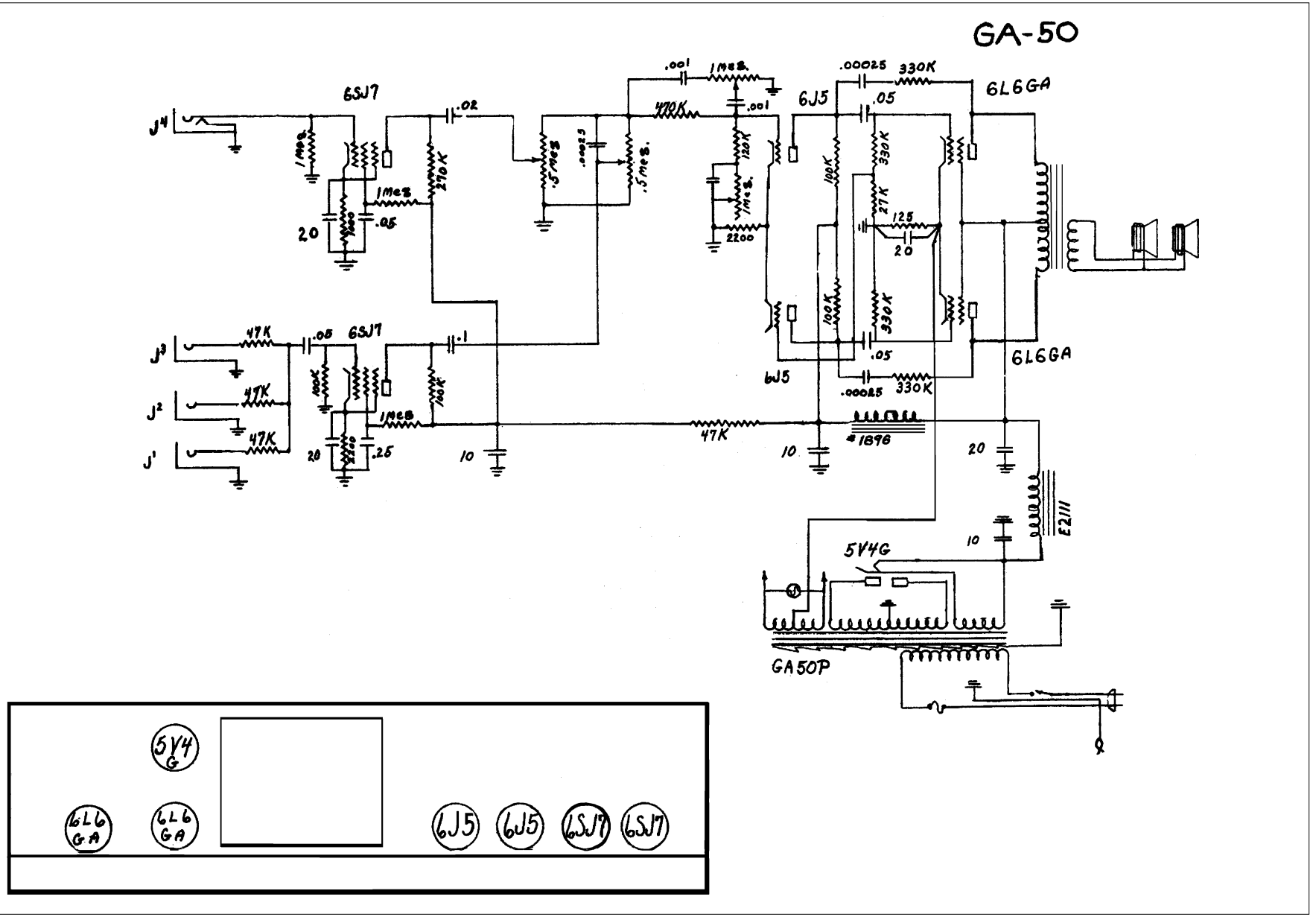
		E_P	E_{SG}	E_G	E_K
V_1 - 12AX7	CHAN I PREAMP	+150	—	0	+1.2
V_2 - 12AX7	" II "	+150	—	0	+1.2
V_3 - 5879	MIXER AMP	+180	+32	0	+1.15
V_4 - 5879	AMPLIFIER	+180	+32	0	+1.15
V_{5A} - ½12AX7	PHASE SPLITTER	+210	—	*46	+47
V_{5B} - ½12AX7	TREM. OSC.	450	—	0	+1.7
V_6 - 6SN7	DRIVER	112	—	0	+4.2
V_7 - 6550	PWR AMP	560	+265	0	+23.5
V_8 - 6550	" "	560	+265	0	+23.5
V_9 - 6V6	VOLTAGE REG.	+565	+565	+228	+265
V_{10} - GZ34	RECTIFIER	955 RMS	—	—	+570

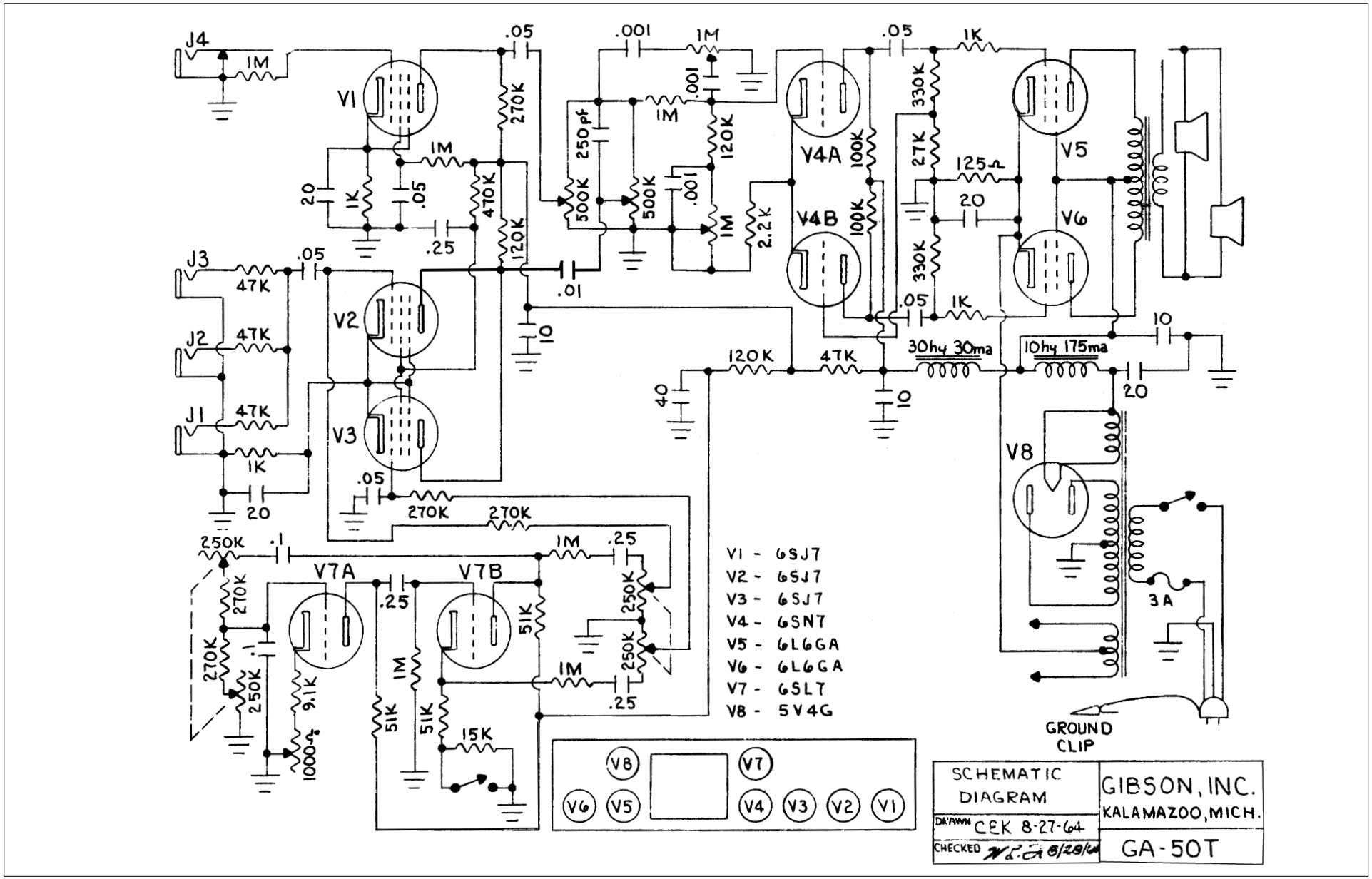
DC VOLTAGES TO CHASSIS WITH 11 MEG VTVM AND TREMOLO OSCILLATOR "OFF"

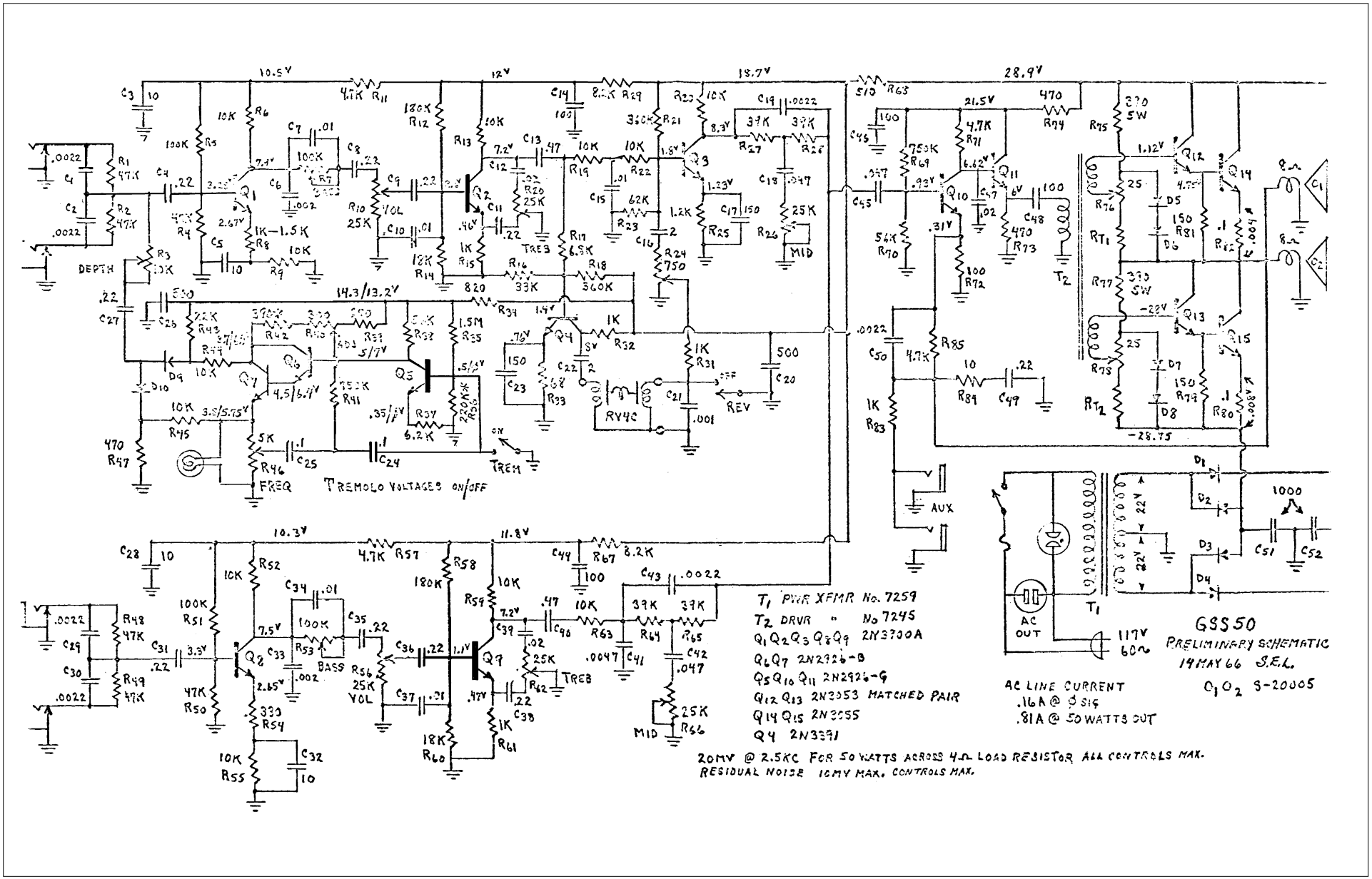




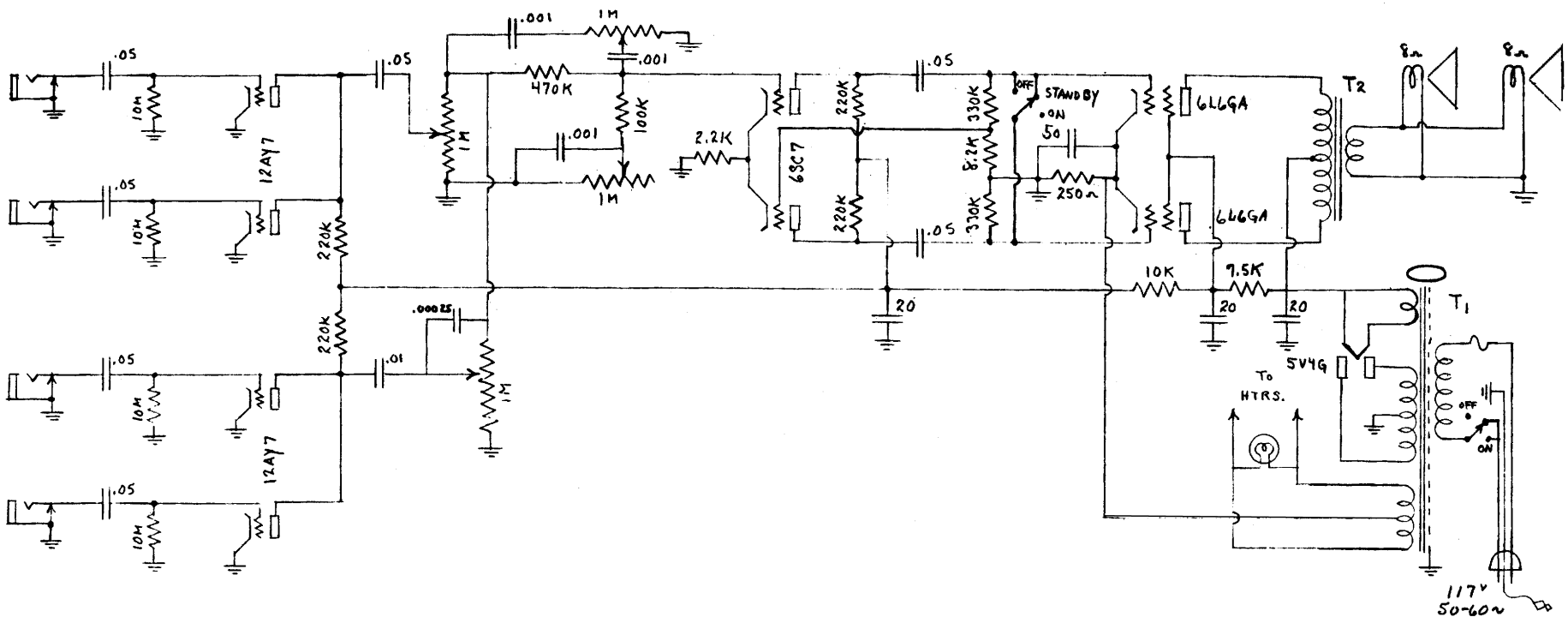



GA-50
6SJ7
6J5
6L6GA
5V4G
GA50P
#1898
E2111
J4
J3
J2
J1
47K
1meg
.5meg
.001
.00025
330K
.05
.02
.25
.1
100K
27K
125
2200
120K
470K
10
20
6L6 GA
6L6 GA
6J5
6J5
6SJ7
6SJ7


J4
J3
J2
J1
V1
V2
V3
V4A
V4B
V5
V6
V7A
V7B
V8
1M
.05
270K
.001
250pf
500K
120K
100K
330K
27K
125
2.2K
47K
1K
.25
.01
10
20
40
120K
30hy 30ma
10hy 175ma
250K
.1
51K
9.1K
1000
15K
3A
GROUND CLIP
V1 - 6SJ7
V2 - 6SJ7
V3 - 6SJ7
V4 - 6SN7
V5 - 6L6GA
V6 - 6L6GA
V7 - 6SL7
V8 - 5V4G
SCHEMATIC DIAGRAM
GIBSON, INC.
KALAMAZOO, MICH.
DRAWN C.E.K. 8-27-64
CHECKED
GA-50T


DEPTH
TREMOLO VOLTAGES ON/OFF
FREQ
TREM
REV
AUX
BASS
TREB
MID
VOL
AC OUT
117V 60~
T1 PWR XFMR No. 7259
T2 DRVR " No 7245
Q1 Q2 Q3 Q8 Q9 2N3700A
Q6 Q7 2N2926-B
Q5 Q10 Q11 2N2926-G
Q12 Q13 2N3053 MATCHED PAIR
Q14 Q15 2N3055
Q4 2N3391
20MV @ 2.5KC FOR 50 WATTS ACROSS 4Ω LOAD RESISTOR ALL CONTROLS MAX.
RESIDUAL NOISE 10MV MAX. CONTROLS MAX.
AC LINE CURRENT
.16A @ 0 SIG
.81A @ 50 WATTS OUT
GSS50
PRELIMINARY SCHEMATIC
14 MAY 66 S.E.L.
O1 O2 S-20005

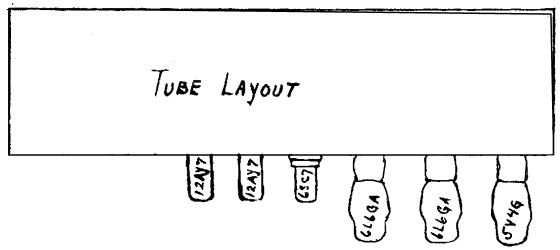
GA-55

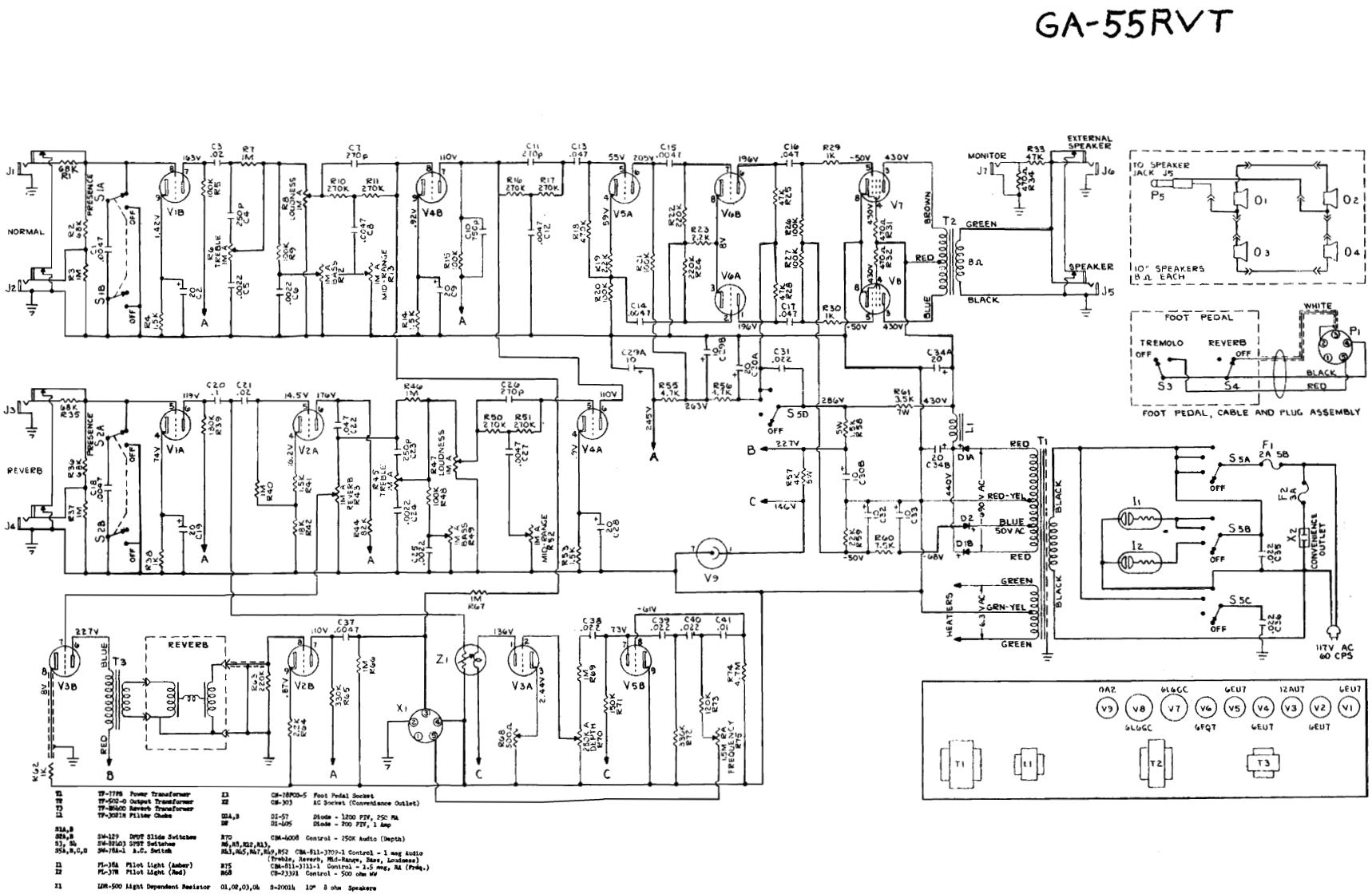


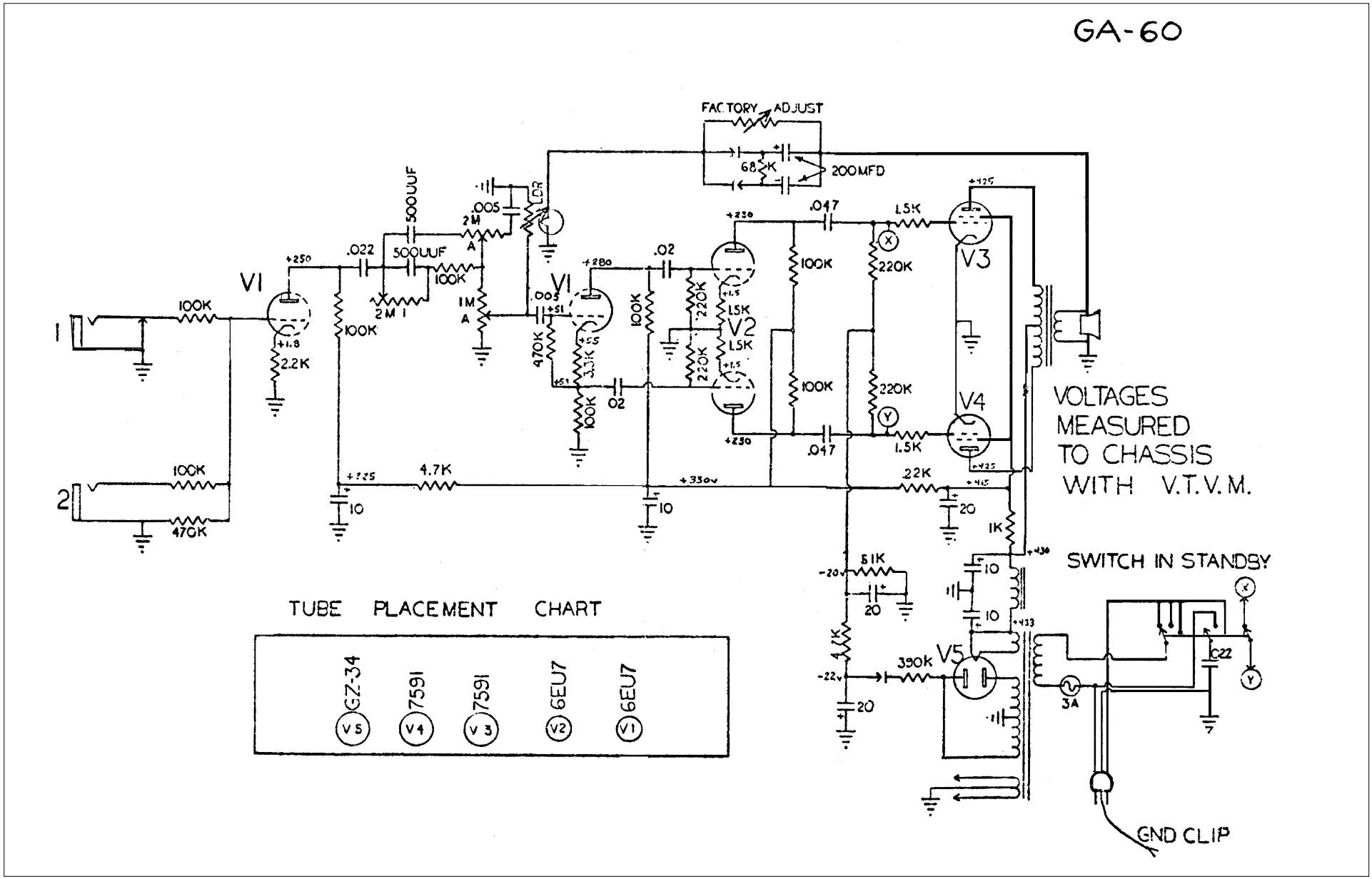
Voltages to Chassis using 20,000 Ω/V meter.

Tube	Use	Plate	Screen	Cathode	Plate	Screen	Cathode
5V4G	Rectifier	300 VAC	—	360	300 VAC		360
6L6GA	OUTPUT	355	305	25			
6L6GA	OUTPUT	355	305	25			
6SC7	ϕ INVERTER	160	—	1.85	160	—	1.85
12AY7	INST.	40	—	0.0	40	—	0.0
12AY7	MIC	40		0.0	40	—	0.0

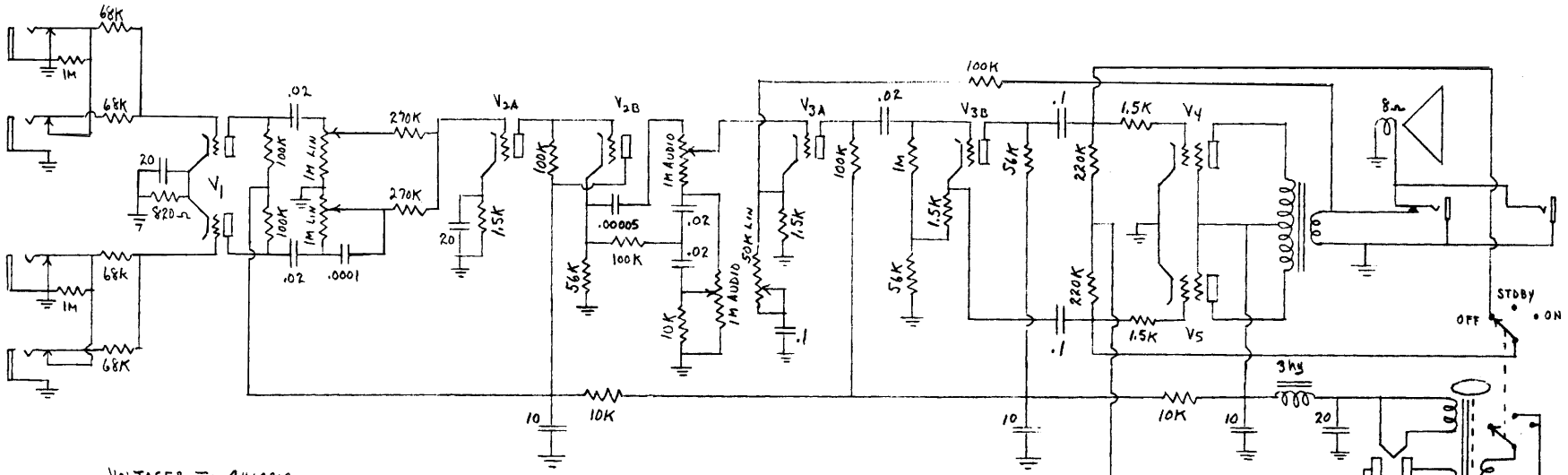
Normal voltages may vary 20% with normal tubes in resistance Coupled stages




GA-55RVT
NORMAL
REVERB
PRESENCE
TREBLE
LOUDNESS
MID-RANGE
BASS
REVERB
TREMOLO
SPEAKER
MONITOR
EXTERNAL SPEAKER
TO SPEAKER JACK J5
10" SPEAKERS 8 Ω EACH
FOOT PEDAL
FOOT PEDAL, CABLE AND PLUG ASSEMBLY
CONVENIENCE OUTLET
117V AC 60 CPS
HEATERS
T1 TV-1778 Power Transformer
T2 TV-502-O Output Transformer
T3 TV-30018 Pilot Lamps
S1A,B SW-129 DPDT Slide Switches
S2A,B SW-92103 DPDT Switches
S3, S4, S5A,B,C,D SW-758-1 A.C. Switch
I1,2 PI-38A Pilot Light (Amber)
I3 PI-37M Pilot Light (Red)
X1 LDR-500 Light Dependent Resistor
J1 CM-7870-5 Foot Pedal Socket
J2 CM-303 AC Socket (Convenience Outlet)
D1A,B D1-57 Diode - 1200 PIV, 250 MA
D2 D1-605 Diode - 200 PIV, 1 Amp
R70 CBM-4008 Control - 250K Audio (Depth)
R6,R9,R12,R13 R45,R47,R49,R52 CBA-811-3709-1 Control - 1 meg Audio (Treble, Reverb, Mid-Range, Bass, Loudness)
R75 CBA-811-3731-1 Control - 2.5 meg, RA (Freq.)
R68 CB-73391 Control - 500 ohm WW
01,02,03,04 S-20014 10" 8 ohm Speakers


GA-60
FACTORY ADJUST
68K
200MFD
500UUF
.005
2M
A
LOR
.022
500UUF
100K
2M
1M
A
.005
.02
.047
1.5K
220K
100K
470K
3.3K
1.5K
220K
100K
.02
.047
1.5K
220K
100K
4.7K
.22K
1K
51K
4.1K
390K
10
20
V1
V2
V3
V4
V5
+250
+280
+230
+425
+415
+436
+433
+330v
+225
-20v
-22v
+1.8
+55
+51
+1.5
100K
2.2K
470K
1
2
VOLTAGES
MEASURED
TO CHASSIS
WITH V.T.V.M.
SWITCH IN STANDBY
3A
C22
GND CLIP
TUBE PLACEMENT CHART
V5 GZ-34
V4 7591
V3 7591
V2 6EU7
V1 6EU7

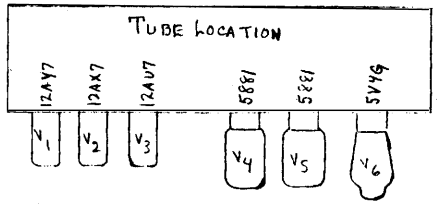
GA-70



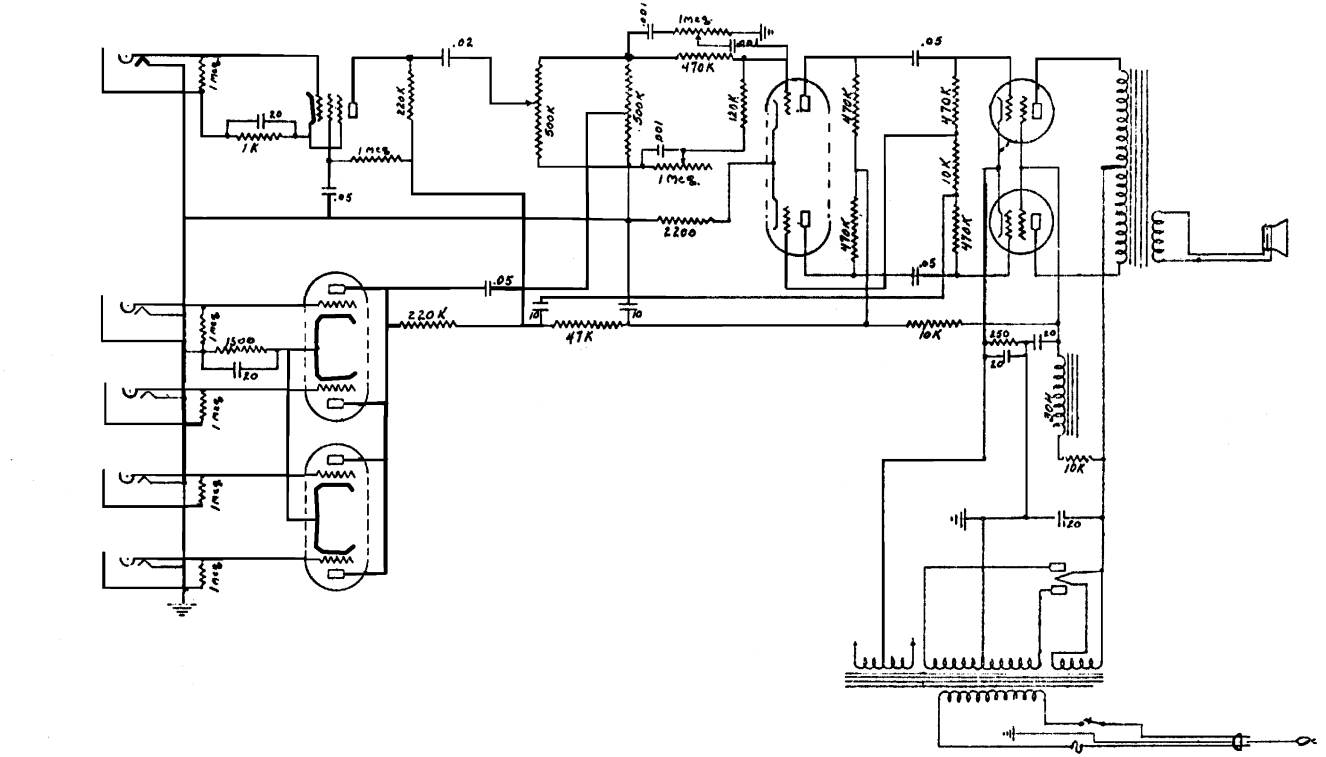
VOLTAGES TO CHASSIS

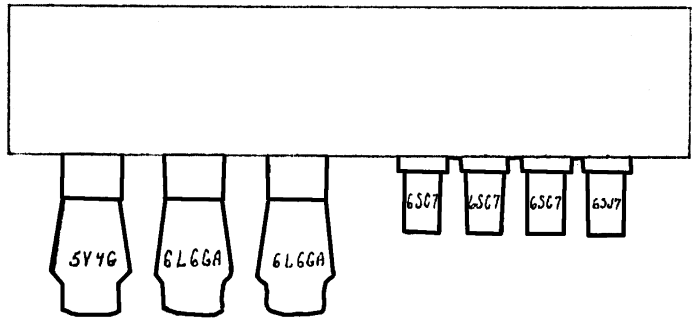
TUBE TYPE	EP	E3G	EG	EK
V1 12AY7	+130	—	0	+2.1
V2 12AX7	A +170 B +270	—	0 +170	+1.25 +1.70
V3 12AU7	A +86 B +205	—	0 +80	+3.4 +125
V4 5881	+420	+425	-45	0
V5 5881	+420	+425	-45	0
V6 5V4G	360 V RMS	—	—	+430

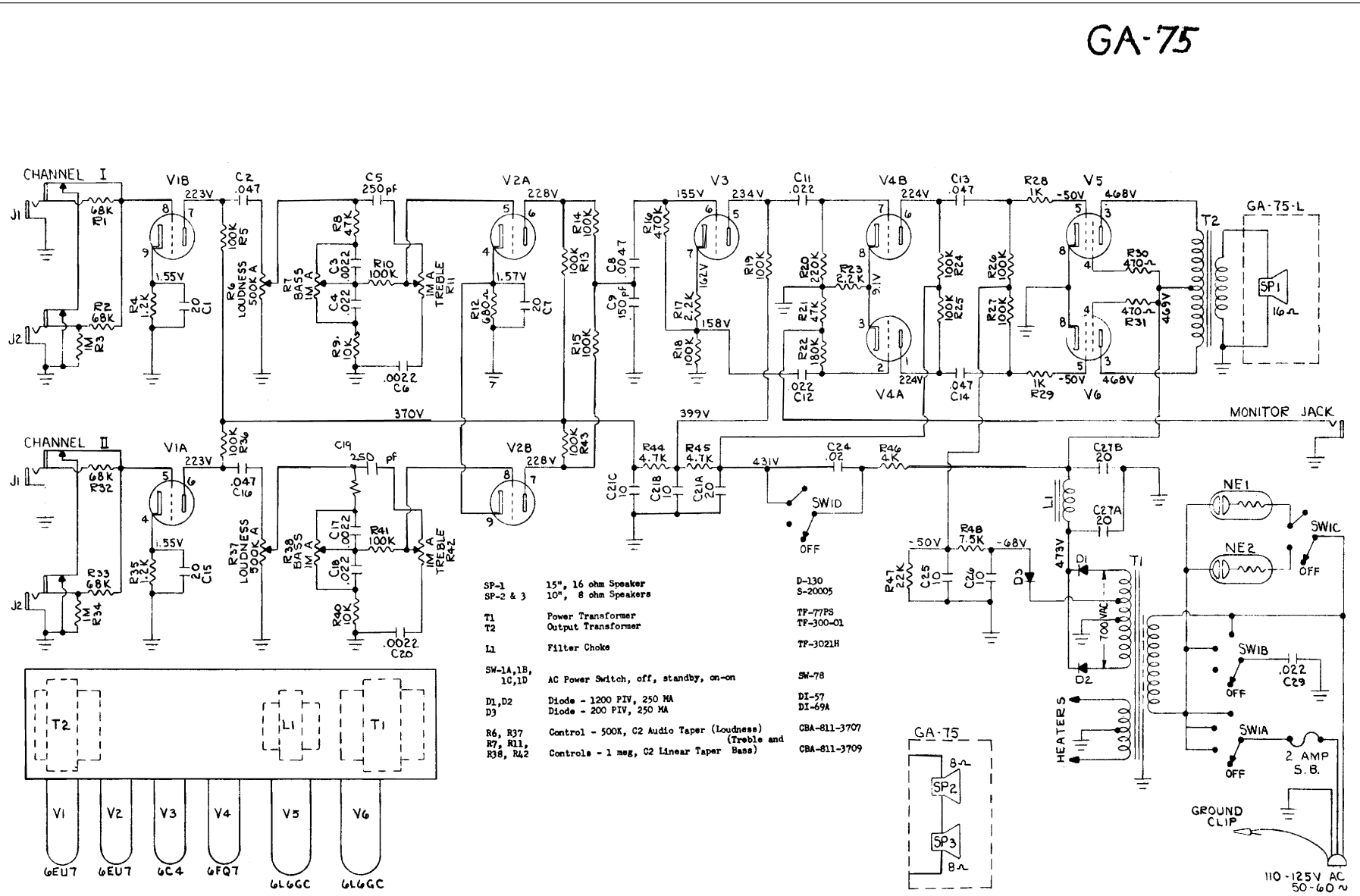
ALL D.C. READING USING 11 Meg VTVM

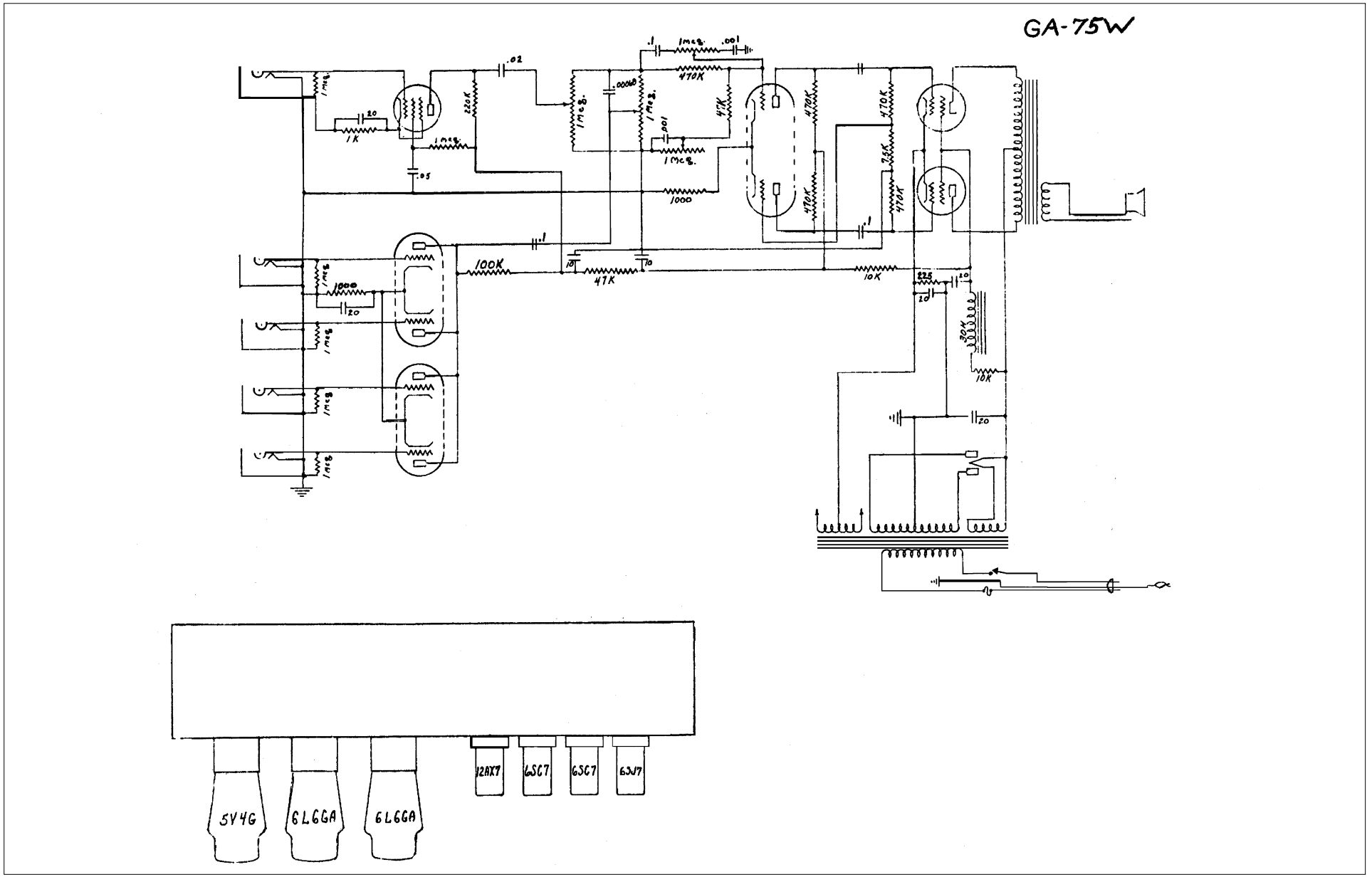


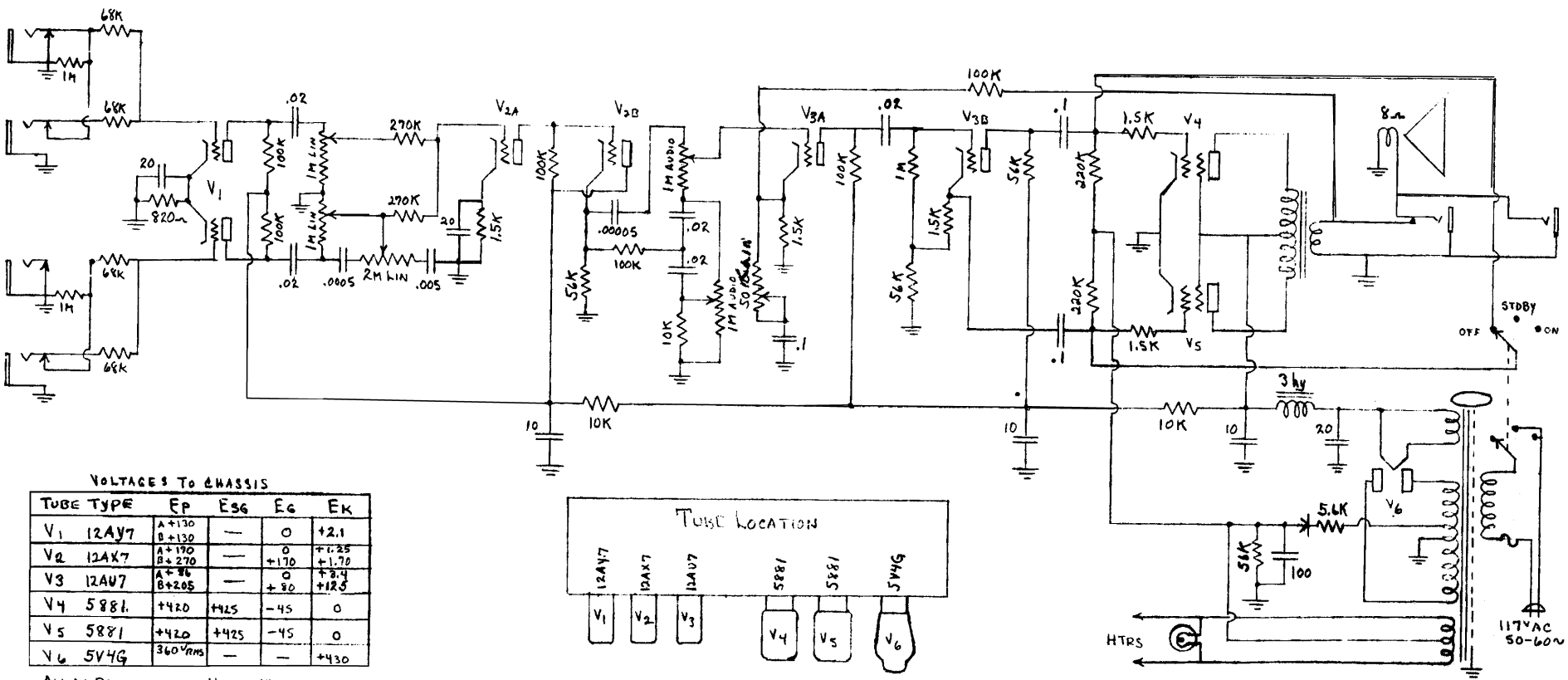
GA-75


.02
.01
1meg.
470K
.05
220K
500K
500K
.001
1meg.
120K
2200
470K
470K
470K
10K
470K
.05
.05
220K
47K
10K
1500
1meg.
20
1K
.05
250
20
20
10K
20


6SC7
6SC7
6SC7
6SJ7
5Y4G
6L6GA
6L6GA


GA-75
CHANNEL I
CHANNEL II
V1A
V1B
V2A
V2B
V3
V4A
V4B
V5
V6
T1
T2
L1
GA-75-L
MONITOR JACK
SW1A
SW1B
SW1C
SW1D
NE1
NE2
HEATERS
GROUND CLIP
110-125V AC 50-60 ~
2 AMP S.B.
SP1 16Ω
SP2 8Ω
SP3 8Ω
SP-1 15", 16 ohm Speaker
SP-2 & 3 10", 8 ohm Speakers
T1 Power Transformer
T2 Output Transformer
L1 Filter Choke
SW-1A,1B, 1C,1D AC Power Switch, off, standby, on-on
D1,D2 Diode - 1200 PIV, 250 MA
D3 Diode - 200 PIV, 250 MA
R6, R37 Control - 500K, C2 Audio Taper (Loudness)
R7, R11, R38, R42 Controls - 1 meg, C2 Linear Taper (Treble and Bass)
D-130
S-20005
TF-77PS
TF-300-01
TF-3021H
SW-78
DI-57
DI-69A
CBA-811-3707
CBA-811-3709
6EU7
6EU7
6C4
6FQ7
6L6GC
6L6GC


GA-75W
5Y4G
6L6GA
6L6GA
12AX7
6SC7
6SC7
6SJ7



VOLTAGES TO CHASSIS

TUBE TYPE		Ep	Esg	Eg	Ek
V1	12AY7	A +130 B +130	—	0	+2.1
V2	12AX7	A +190 B +270	—	0 +170	+6.25 +1.70
V3	12AU7	A +86 B +205	—	0 +30	+3.4 +125
V4	5881	+420	+425	-45	0
V5	5881	+420	+425	-45	0
V6	5V4G	360 V rms	—	—	+430

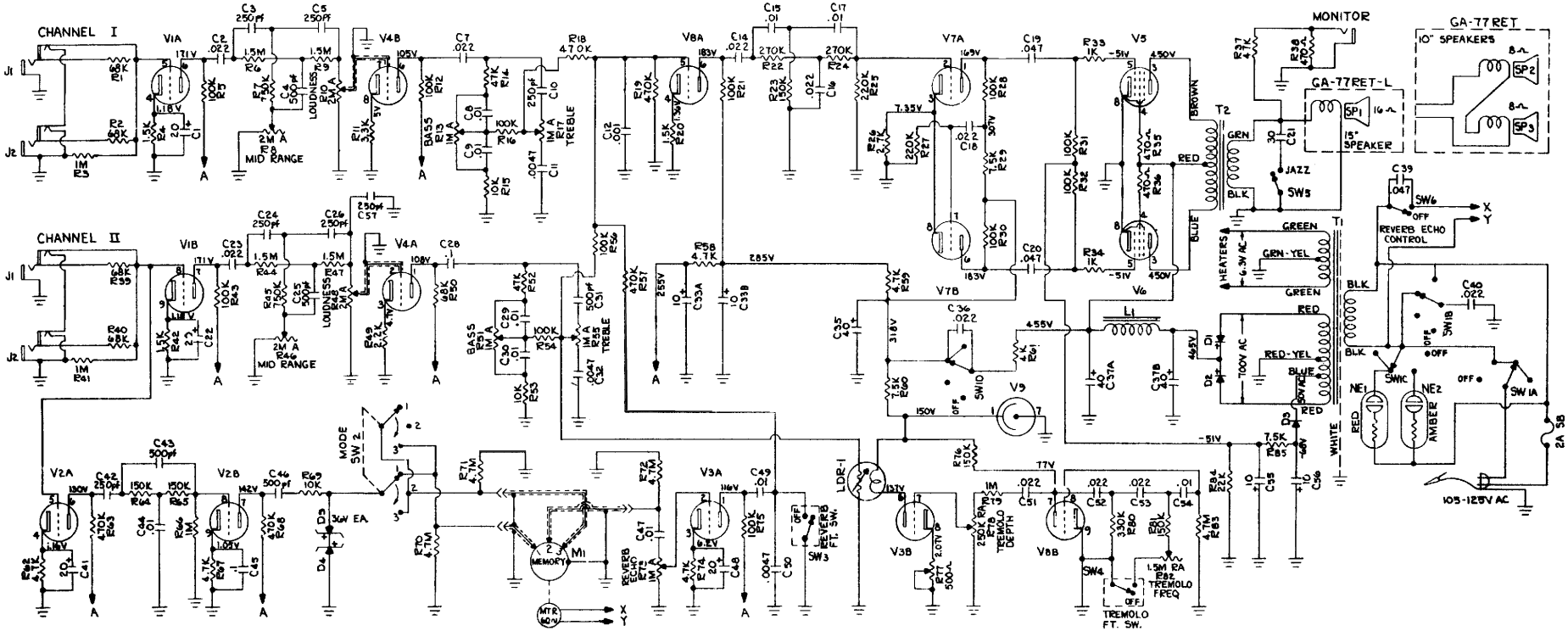
ALL DC READING WITH 11 MEG VTVM

GA-77 Amplifier

1953/54

25W

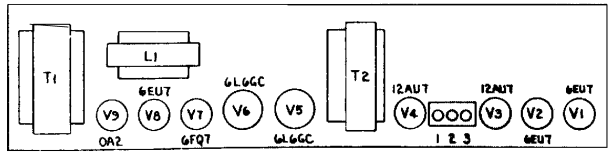
GA-77RET

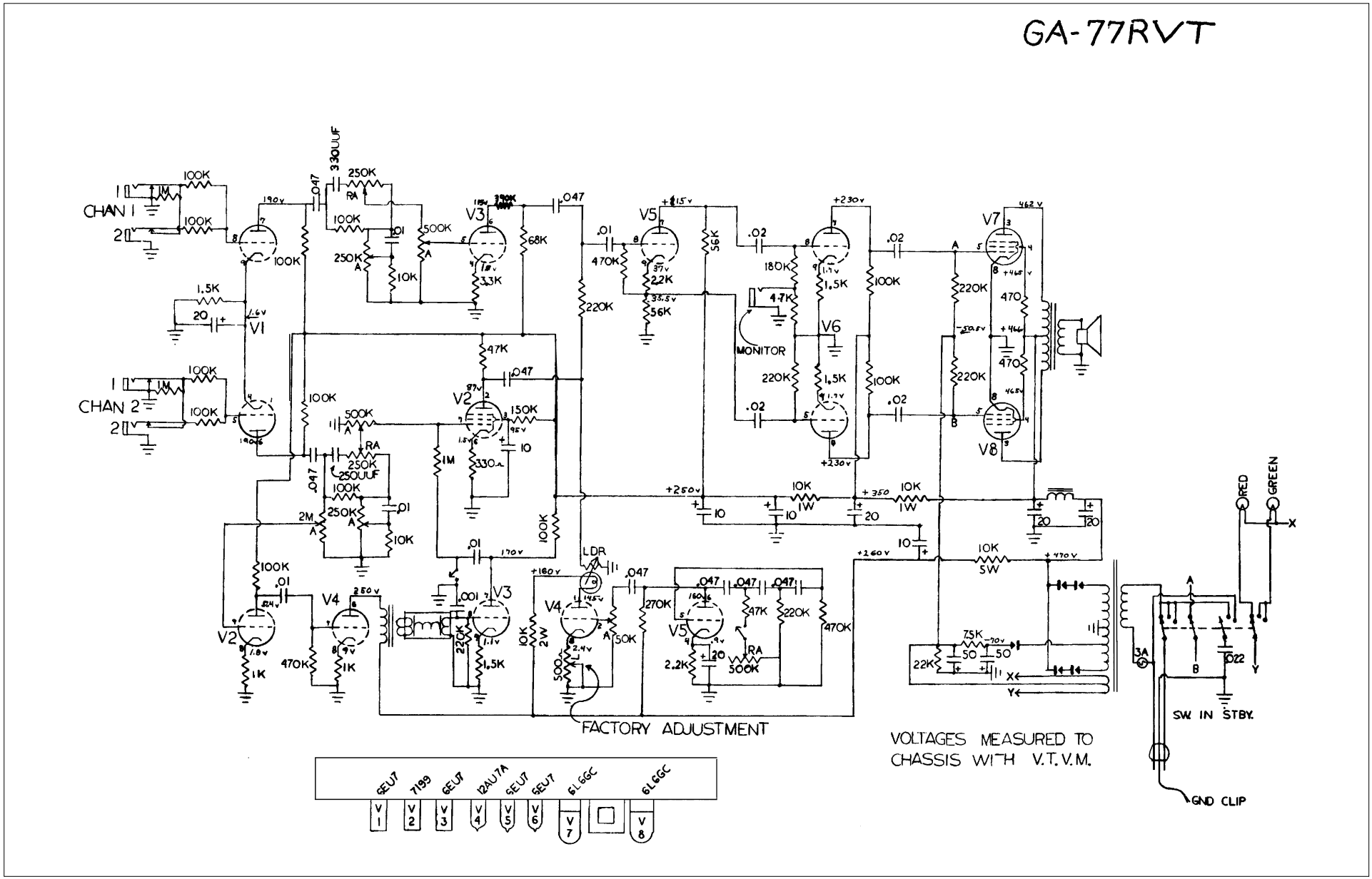


T1	Power Transformer	TF-77T8
T2	Output Transformer	TF-300-01
L1	Filter Choke	TF-3021H
NE1	Neon Pilot Light (Red)	PL-32R
NE2	Neon Pilot Light (Amber)	PL-32A
XL	Memory	RF-9
SW-1	Switch - power & pole, & position	SW-78
SW-2	Switch - mode 2 pole, 3 position	SW-120
SW-3	Switch - reverb foot SPST	SW-82403
SW-4	Switch - tremolo foot SPST	SW-82403
SW-5	Switch - jazz (channel #2 treble control)SPDT	CSA-813-4002
SW-6	Switch - reverb (reverb control) SPDT	CSA-813-4002

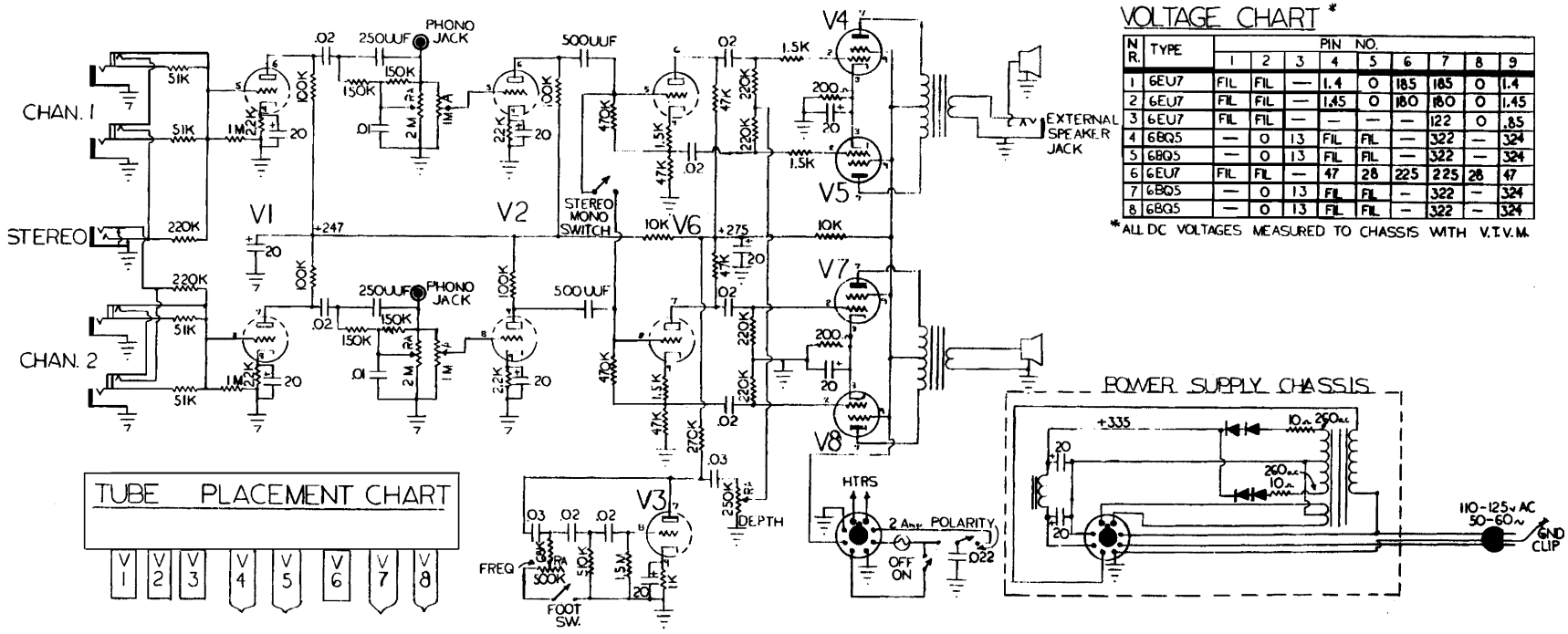
LDR-1	Light Dependent Resistor	RE-LDR-500
SP-1	Speaker, 16 ohm, 15"	R-130F
SP-2,SP-3	Speaker, 8 ohm, 10"	S-20005
D1,D2	Diode, 1200 PIV, 250 MA	DI-57
D3	Diode, 200 PIV, 150 MA	DI-69A
D4,D5	Zener Diode, 36V, ±10 MW ± 5%	DI-402
R2,R10,R16,R48	Control - 2 meg audio (Loudness & Mid-Range)	CSA-811-3702
R18	Control - 250K reversed audio (Depth)	CSA-811-3704
R13,R17,R51	Control - 1 meg audio (Treble & Bass)	CSA-811-3709
R52	Control - 1.5 meg reversed audio (Frequency)	CSA-811-3711
R55,R73	Control - 1 meg - 3DS audio with SPST power switch (Treble)(Reverb)	CSA-813-4002
R77	Control - 500 ohm wire wound (no stop)	CE-23391

Note: Circuit ground located at input jacks.




GA-77RVT
CHAN 1
CHAN 2
V1
V2
V3
V4
V5
V6
V7
V8
MONITOR
LDR
RA
FACTORY ADJUSTMENT
VOLTAGES MEASURED TO CHASSIS WITH V.T.V.M.
SW IN STBY.
GND CLIP
RED
GREEN
6EU7
7199
6EU7
12AU7A
6EU7
6EU7
6L6GC
6L6GC

GA-78



TUBE PLACEMENT CHART

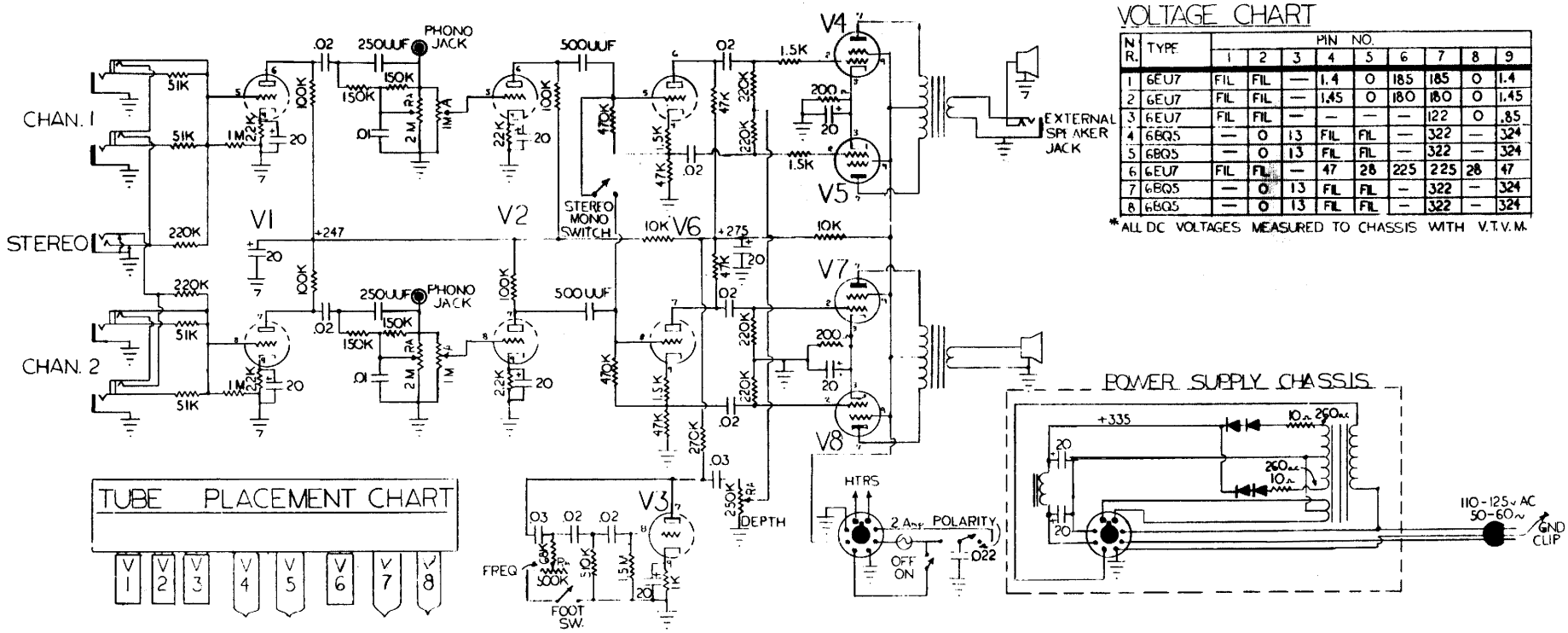
V1	V2	V3	V4	V5	V6	V7	V8

VOLTAGE CHART *

NR.	TYPE	PIN NO. 1	2	3	4	5	6	7	8	9
1	6EU7	FIL	FIL	—	1.4	0	185	185	0	1.4
2	6EU7	FIL	FIL	—	1.45	0	180	180	0	1.45
3	6EU7	FIL	FIL	—	—	—	—	122	0	.85
4	6BQ5	—	0	13	FIL	FIL	—	322	—	324
5	6BQ5	—	0	13	FIL	FIL	—	322	—	324
6	6EU7	FIL	FIL	—	47	28	225	225	28	47
7	6BQ5	—	0	13	FIL	FIL	—	322	—	324
8	6BQ5	—	0	13	FIL	FIL	—	322	—	324

*ALL DC VOLTAGES MEASURED TO CHASSIS WITH V.T.V.M.

GA-79

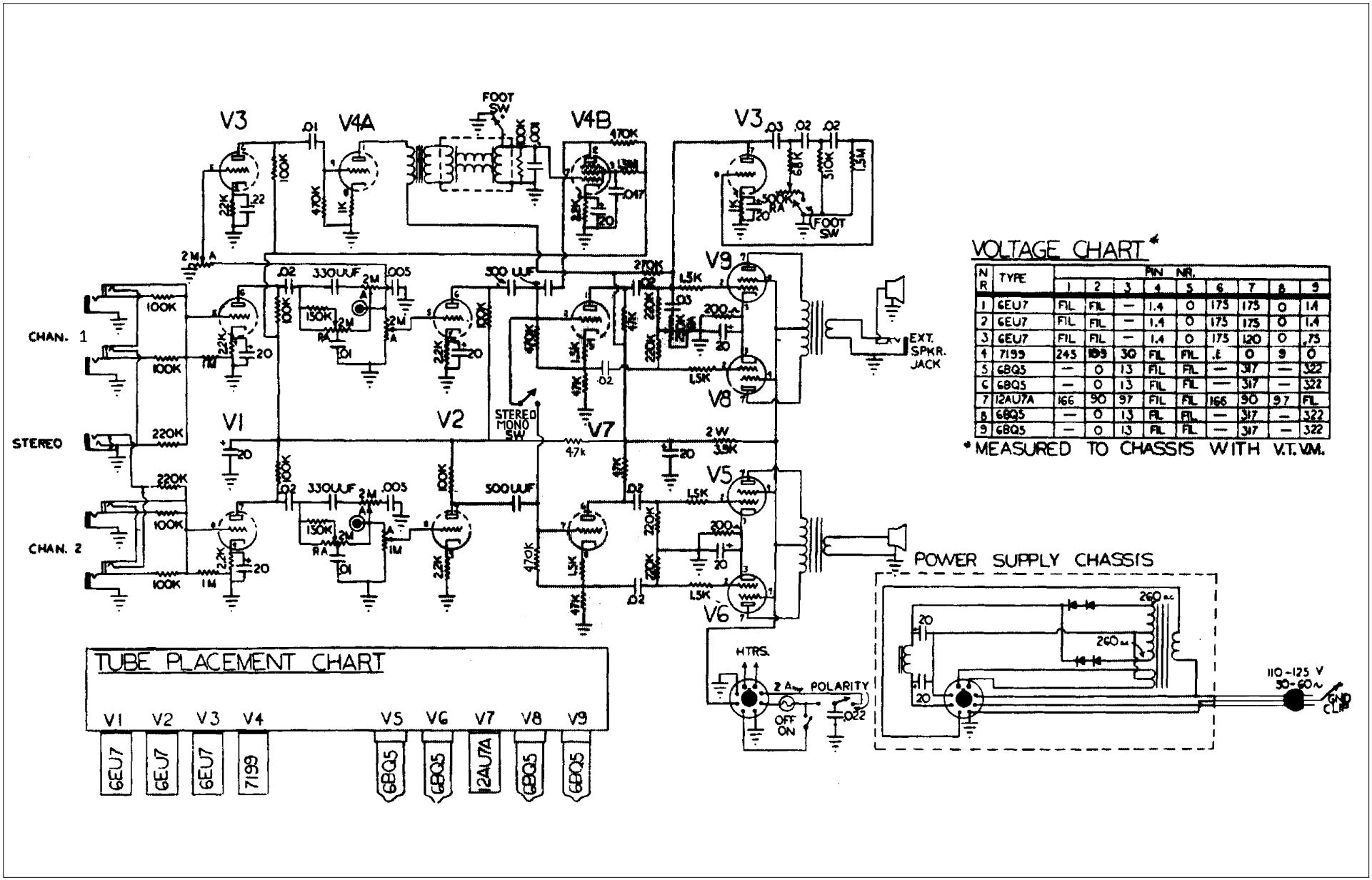


VOLTAGE CHART

NR.	TYPE	PIN NO. 1	2	3	4	5	6	7	8	9
1	6EU7	FIL	FIL	—	1.4	0	185	185	0	1.4
2	6EU7	FIL	FIL	—	1.45	0	180	180	0	1.45
3	6EU7	FIL	FIL	—	—	—	—	122	0	.85
4	6BQ5	—	0	13	FIL	FIL	—	322	—	324
5	6BQ5	—	0	13	FIL	FIL	—	322	—	324
6	6EU7	FIL	FIL	—	47	28	225	225	28	47
7	6BQ5	—	0	13	FIL	FIL	—	322	—	324
8	6BQ5	—	0	13	FIL	FIL	—	322	—	324

*ALL DC VOLTAGES MEASURED TO CHASSIS WITH V.T.V.M.

TUBE PLACEMENT CHART

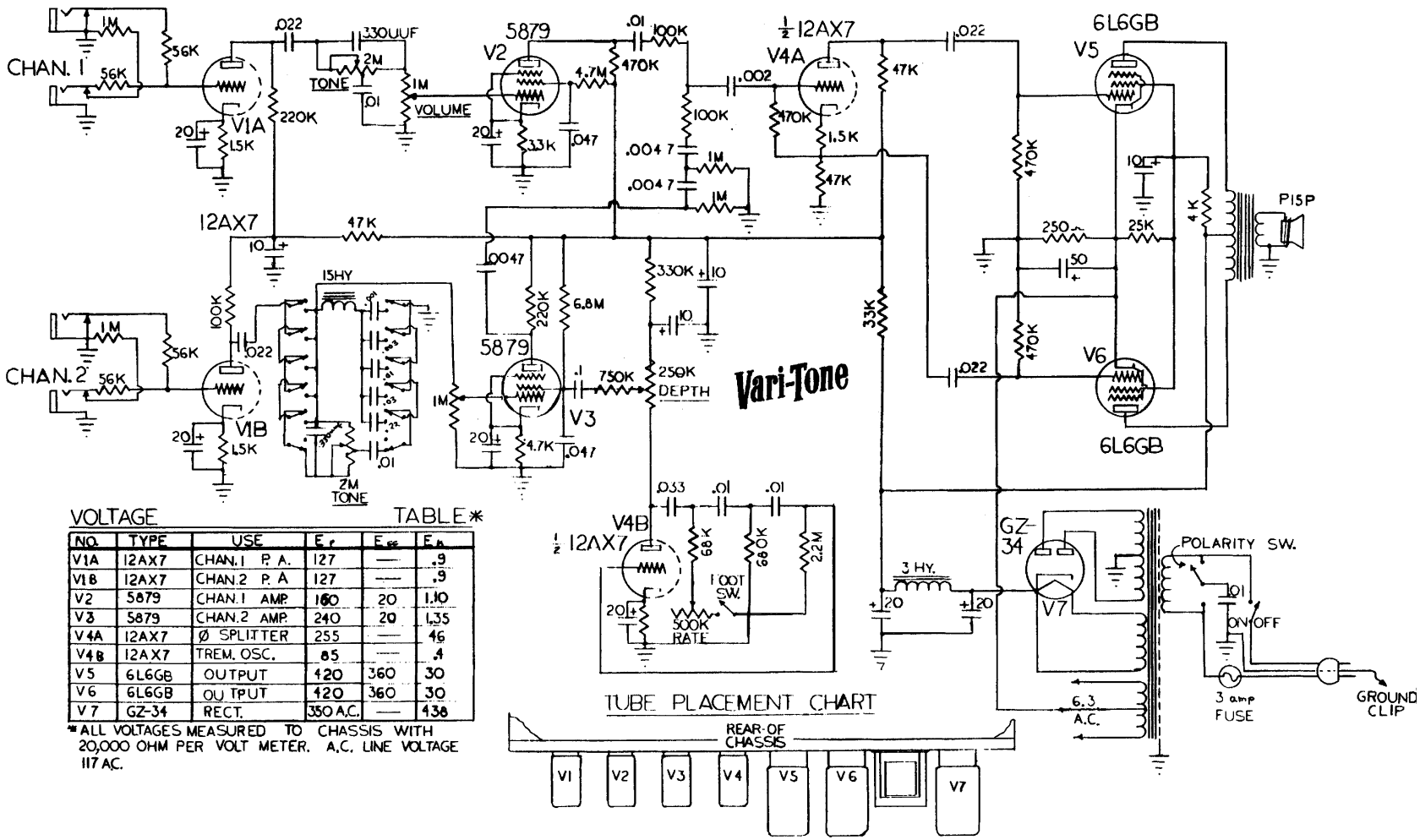


VOLTAGE CHART*

NR	TYPE	PIN NR.								
		1	2	3	4	5	6	7	8	9
1	6EU7	FIL	FIL	—	1.4	0	175	175	0	1.4
2	6EU7	FIL	FIL	—	1.4	0	175	175	0	1.4
3	6EU7	FIL	FIL	—	1.4	0	175	120	0	.75
4	7199	245	189	30	FIL	FIL	.8	0	9	0
5	6BQ5	—	0	13	FIL	FIL	—	317	—	322
6	6BQ5	—	0	13	FIL	FIL	—	317	—	322
7	12AU7A	166	90	97	FIL	FIL	166	90	97	FIL
8	6BQ5	—	0	13	FIL	FIL	—	317	—	322
9	6BQ5	—	0	13	FIL	FIL	—	317	—	322

*MEASURED TO CHASSIS WITH V.T.V.M.

GA-80

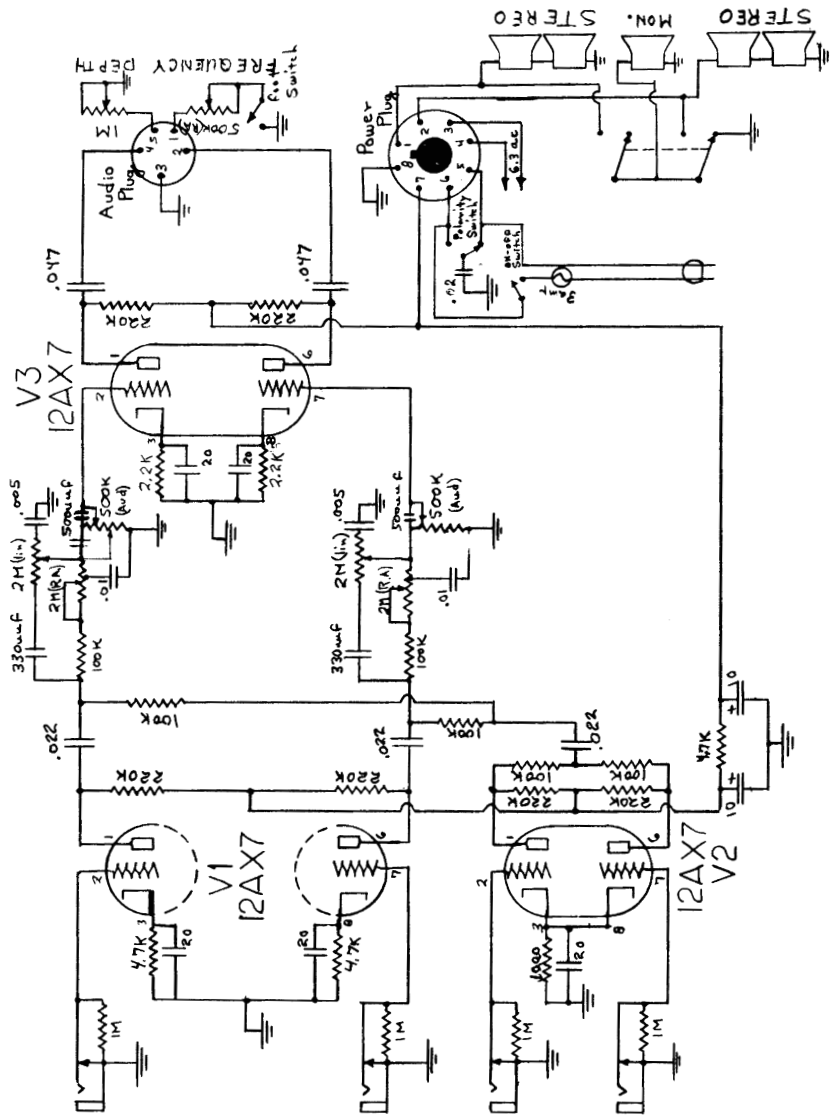


VOLTAGE TABLE*

NO.	TYPE	USE	E_p	E_{cc}	E_k
V1A	12AX7	CHAN. 1 P. A.	127	—	.9
V1B	12AX7	CHAN. 2 P. A	127	—	.9
V2	5879	CHAN. 1 AMP.	160	20	1.10
V3	5879	CHAN. 2 AMP.	240	20	1.35
V4A	12AX7	Ø SPLITTER	255	—	46
V4B	12AX7	TREM. OSC.	85	—	.4
V5	6L6GB	OUTPUT	420	360	30
V6	6L6GB	OUTPUT	420	360	30
V7	GZ-34	RECT.	350 A.C.	—	438

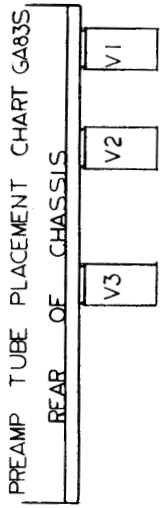
*ALL VOLTAGES MEASURED TO CHASSIS WITH 20,000 OHM PER VOLT METER. A.C. LINE VOLTAGE 117 A.C.

TUBE PLACEMENT CHART



PREAMP TUBE PLACEMENT CHART GA83S

REAR OF CHASSIS

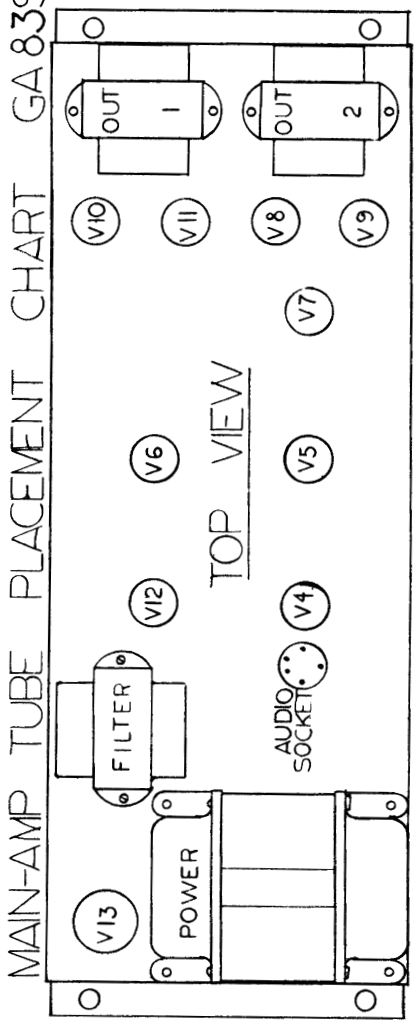


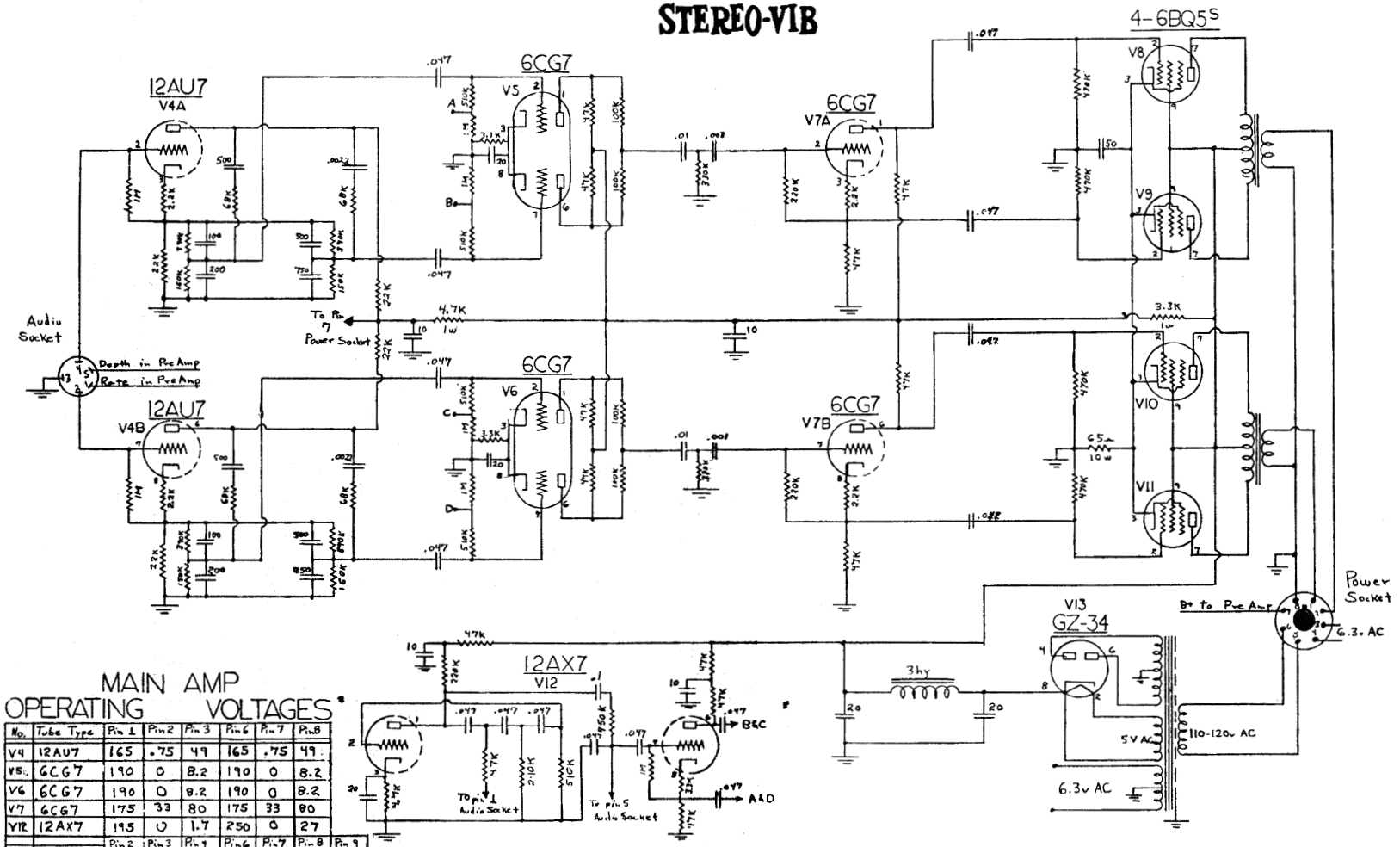
PREAMP VOLTAGES*

OPERATING

No.	Tube Type	Pin 1	Pin 2	Pin 3	Pin 6	Pin 7	Pin 8
V1	12AX7	157	0	1.8	157	0	1.8
V2	12AX7	117	0	1.05	117	0	1.05
V3	12AX7	105	0	1.05	105	0	1.05

MAIN-AMP TUBE PLACEMENT CHART GA 83S



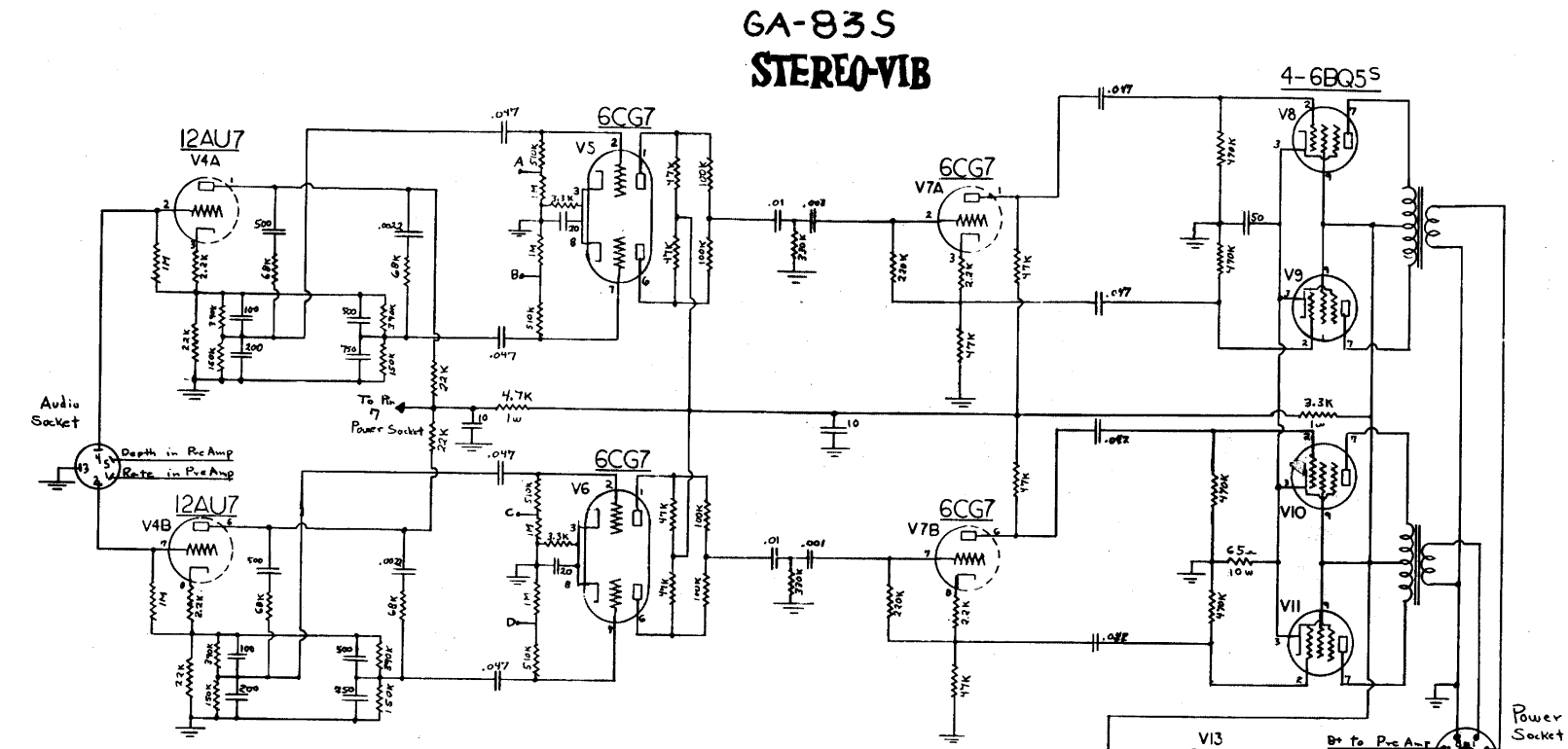


MAIN AMP OPERATING VOLTAGES

No.	Tube Type	Pin 1	Pin 2	Pin 3	Pin 6	Pin 7	Pin 8	
V4	12AU7	165	.75	49	165	.75	49	
V5 &	6CG7	190	0	8.2	190	0	8.2	
V6	6CG7	190	0	8.2	190	0	8.2	
V7	6CG7	175	33	80	175	33	80	
V12	12AX7	195	0	1.7	250	0	27	
		Pin 2	Pin 3	Pin 4	Pin 6	Pin 7	Pin 8	Pin 9
V8	6BQ5	0	10.8	—	—	308	—	315
V9	6BQ5	0	10.8	—	—	308	—	315
V10	6BQ5	0	10.8	—	—	308	—	315
V11	6BQ5	0	10.8	—	—	308	—	315
V13	GZ-34	5 AC	—	310 AC	310 AC	—	322	—

*ALL DC VOLTAGES MEASURED TO CHASSIS WITH 20,000 OHM PER VOLT METER.

(— JUNE 1959 —
GIVE TO KEITH L.)

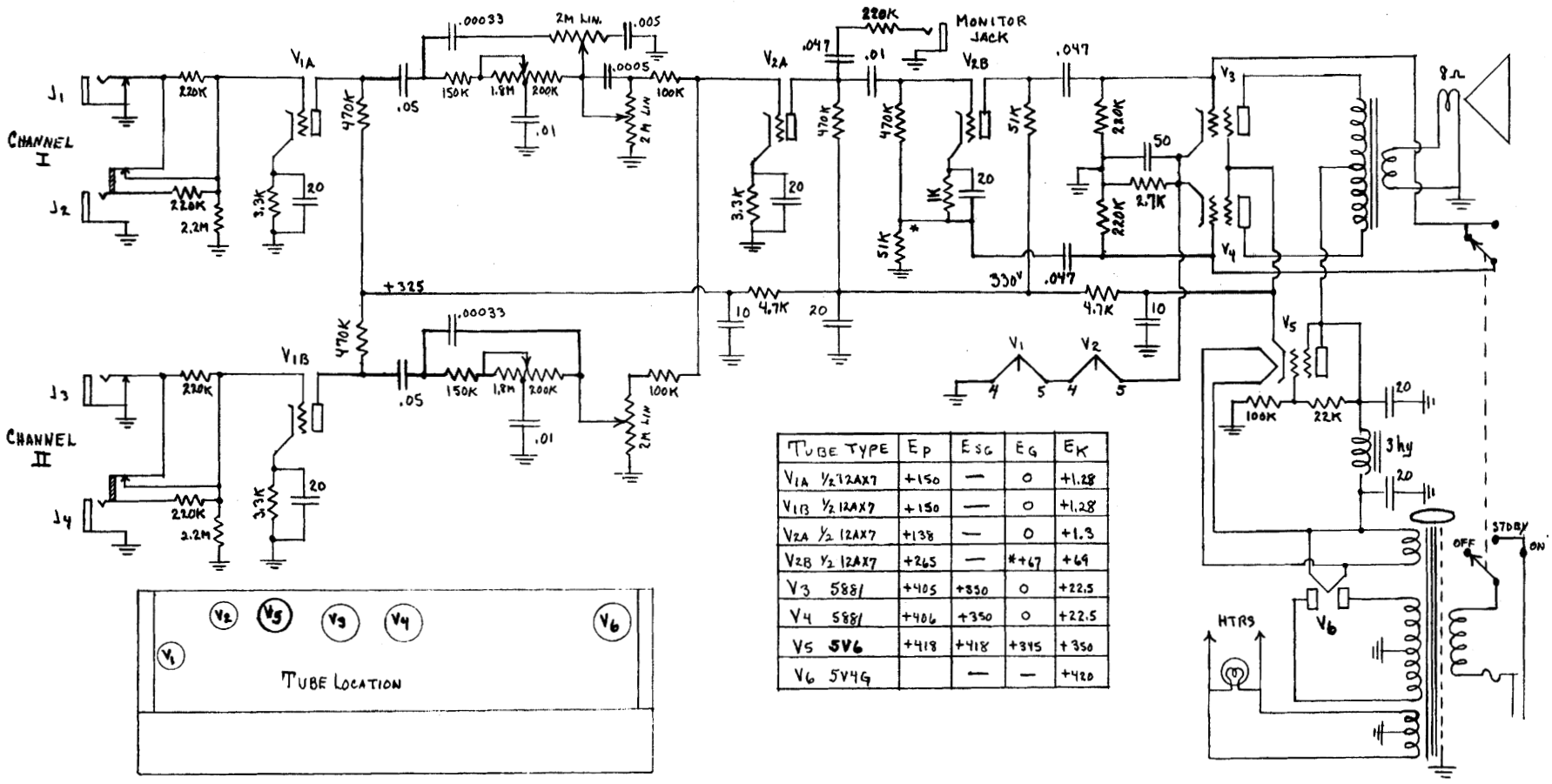


MAIN AMP OPERATING VOLTAGES*

No.	Tube Type	Pin 1	Pin 2	Pin 3	Pin 6	Pin 7	Pin 8	
V4	12AU7	165	.75	49	165	.75	49	
V5	6CG7	190	0	8.2	190	0	8.2	
V6	6CG7	190	0	8.2	190	0	8.2	
V7	6CG7	175	33	80	175	33	80	
V12	12AX7	195	0	1.7	250	0	27	
		Pin 2	Pin 3	Pin 4	Pin 6	Pin 7	Pin 8	Pin 9
V8	6BQ5	0	10.8	—	—	308	—	315
V9	6BQ5	0	10.8	—	—	308	—	315
V10	6BQ5	0	10.8	—	—	308	—	315
V11	6BQ5	0	10.8	—	—	308	—	315
V13	GZ-34	5 AC	—	310 AC	310 AC	—	322	—

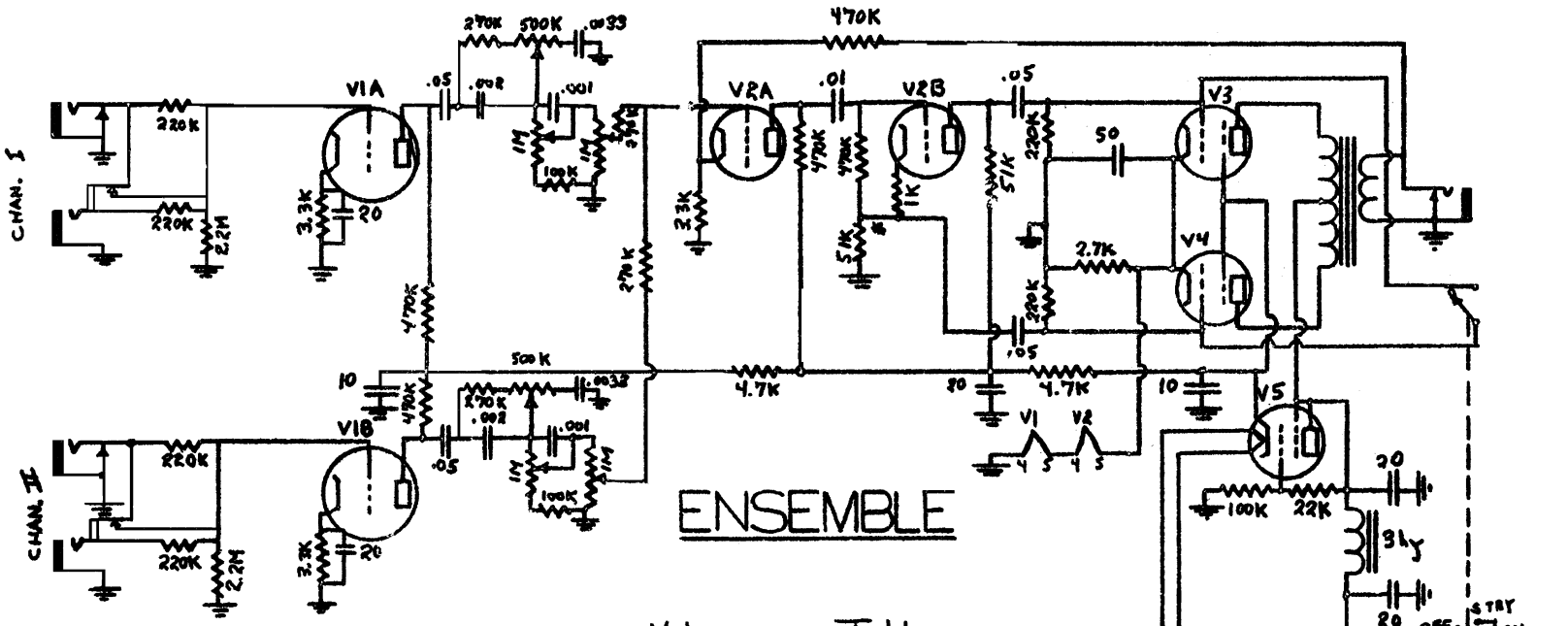
*ALL DC VOLTAGES MEASURED TO CHASSIS WITH 20,000 OHM PER VOLT METER.

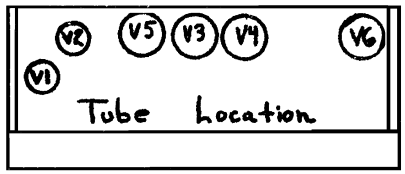
GA-85



TUBE TYPE	Ep	Esg	Eg	Ek
V1A ½ 12AX7	+150	—	0	+1.28
V1B ½ 12AX7	+150	—	0	+1.28
V2A ½ 12AX7	+138	—	0	+1.3
V2B ½ 12AX7	+265	—	*+47	+69
V3 5881	+405	+330	0	+22.5
V4 5881	+406	+330	0	+22.5
V5 5V6	+418	+418	+345	+330
V6 5V4G		—	—	+420

GA 86



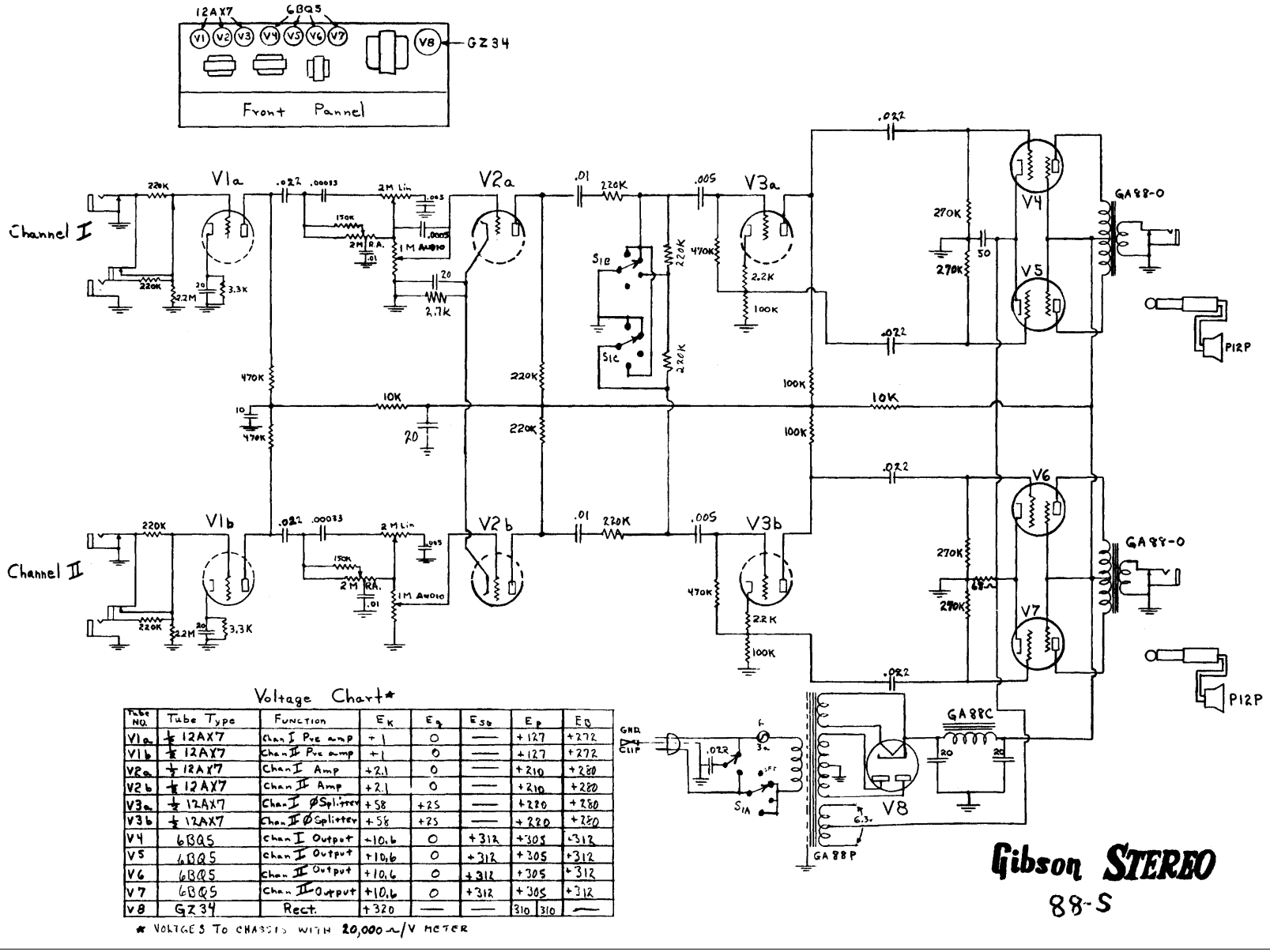


Voltage Table

		E_p	E_{sg}	E_g	E_k
V1A	12AX7	140	—	0	1.3
V1B	12AX7	140	—	0	1.2
V2A	12AX7	135	—	0	1.2
V2B	12AX7	255	—	*55	5.7
V3	5881	400	340	0	22.5
V4	5881	400	340	0	22.5
V5	GV6	415	415	340	340
V6	GZ-34	—	—	—	420

Measured with 20,000 ~/v meter.

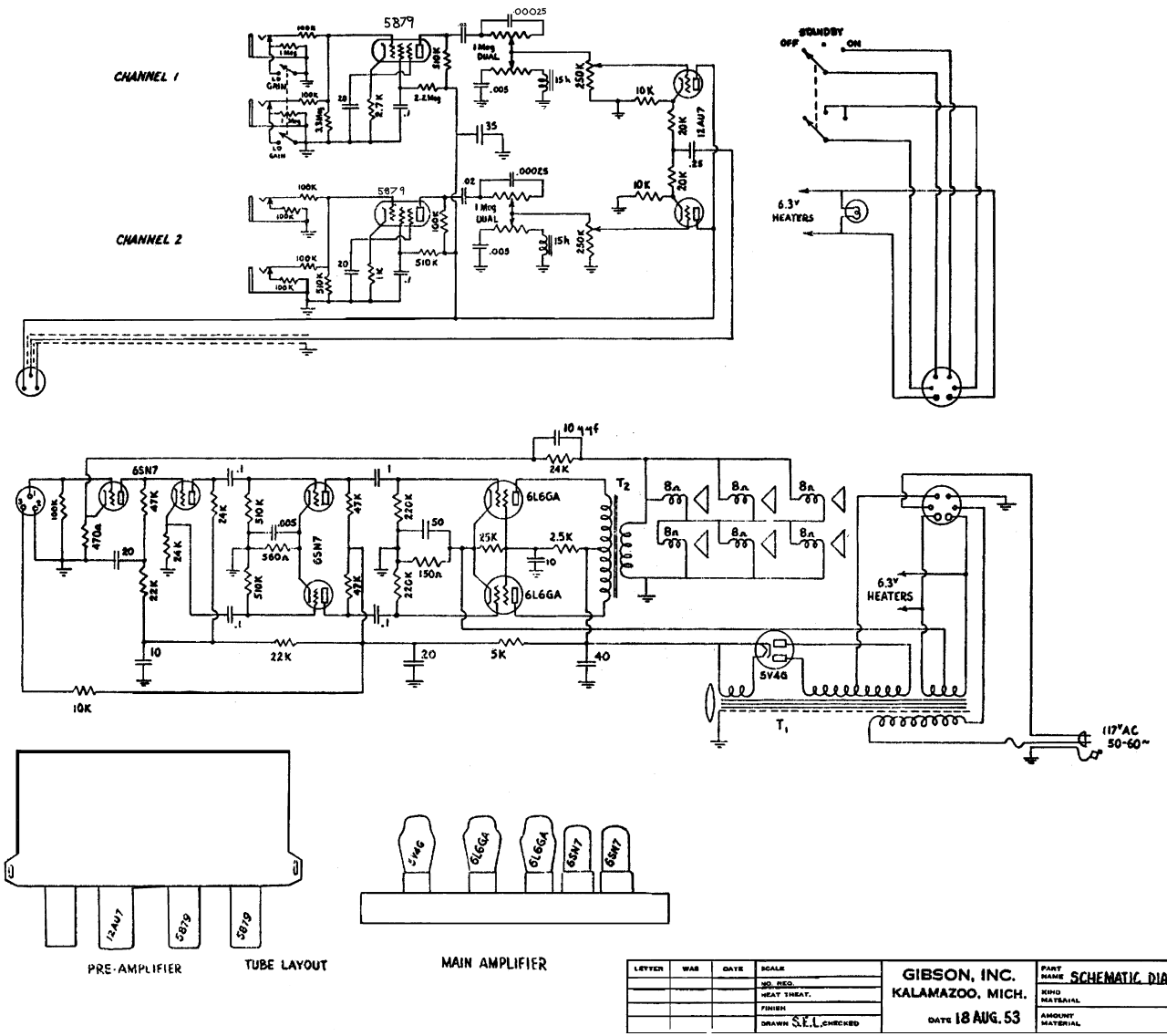
GIBSON INC	Schematic Diagram	
	Drawn By: JKP	Cktd By:
	Date: 6 May 60	



Voltage Chart*

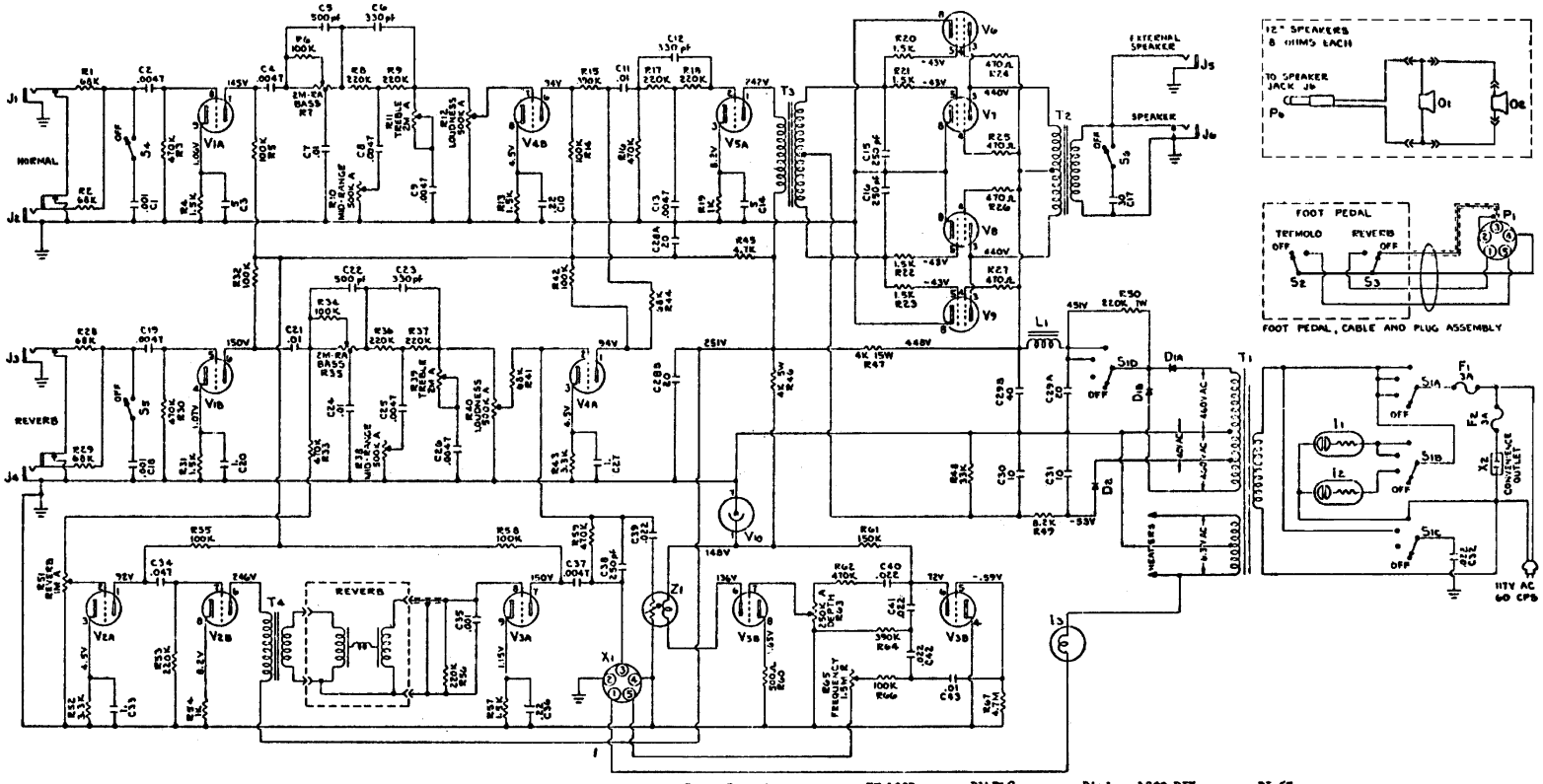
Tube NO.	Tube Type	Function	E_K	E_{g_2}	E_{sb}	E_p	E_0
V1a	½ 12AX7	Chan I Pre amp	+1	0	—	+127	+272
V1b	½ 12AX7	Chan II Pre amp	+1	0	—	+127	+272
V2a	½ 12AX7	Chan I Amp	+2.1	0	—	+210	+280
V2b	½ 12AX7	Chan II Amp	+2.1	0	—	+210	+280
V3a	½ 12AX7	Chan I ØSplitter	+58	+25	—	+220	+280
V3b	½ 12AX7	Chan II ØSplitter	+58	+25	—	+220	+280
V4	6BQ5	Chan I Output	+10.6	0	+312	+305	+312
V5	6BQ5	Chan I Output	+10.6	0	+312	+305	+312
V6	6BQ5	Chan II Output	+10.6	0	+312	+305	+312
V7	6BQ5	Chan II Output	+10.6	0	+312	+305	+312
V8	GZ34	Rect.	+320	—	—	310 310	—

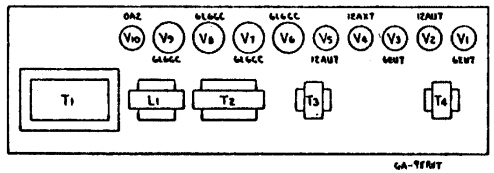
* VOLTAGES TO CHASSIS WITH 20,000 Ω/V METER



LETTER	WAS	DATE	SCALE	GIBSON, INC. KALAMAZOO, MICH.	PART NAME SCHEMATIC DIAGRAM GA 90
			NO. REQ.		KIND MATERIAL
			HEAT TREAT.		
			FINISH	DATE 18 AUG. 53	AMOUNT MATERIAL
			DRAWN S.E.L. CHECKED		

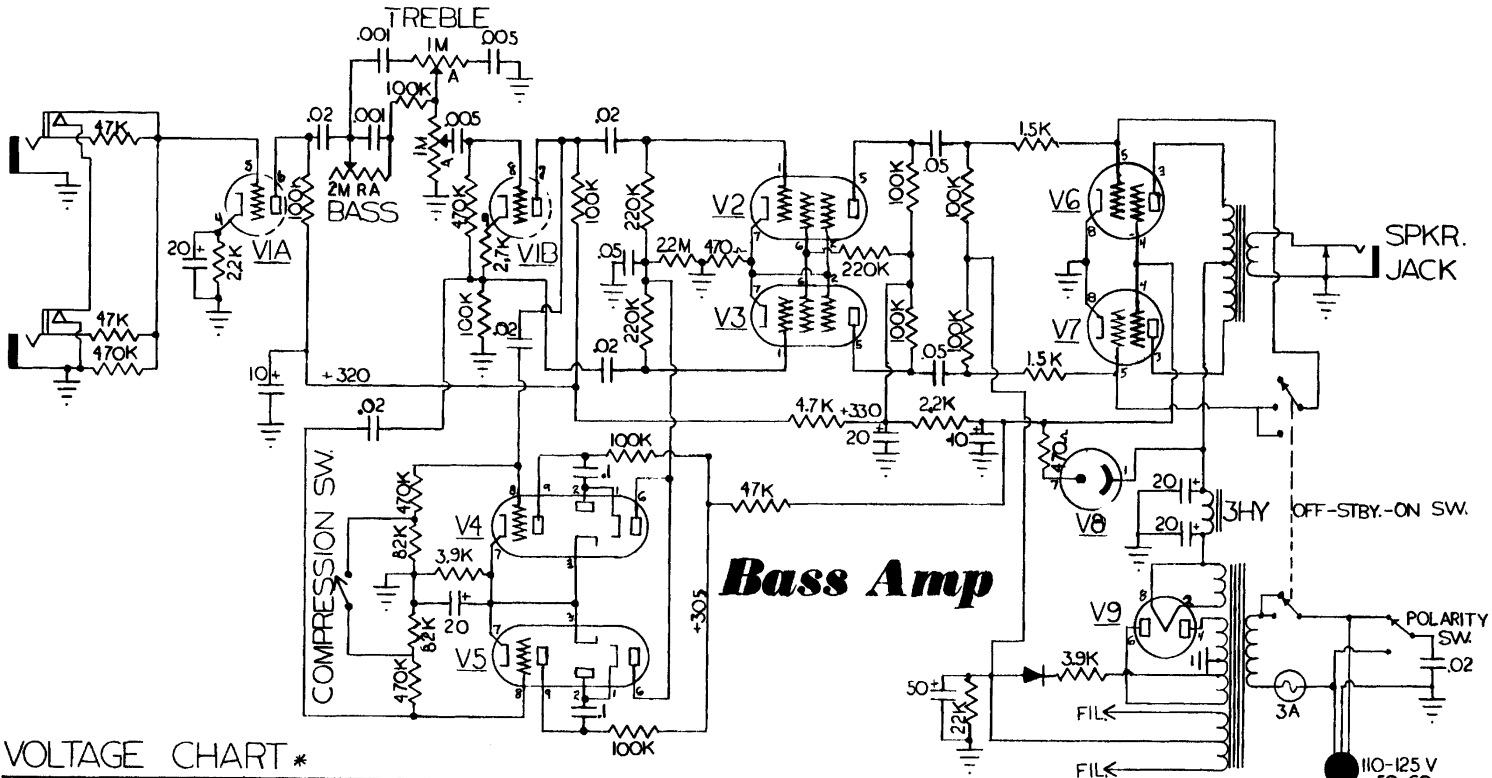
GA-95 "APOLLO"





T1	Power Transformer	TF-103P	D1A,D1B	Diode - 1200 PIV	DI-57
T2	Output Transformer	TF-503-0	D2	Diode - 200 PIV	DI-405
T3	FP Driver Transformer	TF-1001D			
T4	Reverb Transformer	TF-E64U00	J1	Foot Pedal Socket	CN-78FCC-5
			J2	Convenience Outlet	CN-303
L1	Filter Choke	TF-1002C	R39	Control - 2 meg audio w/switch	CBA-4005-1
S1A,B,C,D	Switch	SW-78A-1	R10,R12,R18,R40	Control - 500K audio	CBA-4007
S2	Switch SPST	SW-A2b03	R43	Control - 250K audio	CBA-4008
S3	Switch SPDT	SW-B2L22	R11	Control - 2 meg, audio	CBA-811-J702-1
S4,S5	Switches DPDT Slide	SW-129	R51	Control - 1 meg, audio	CBA-811-J709-1
			R65	Control - 1.5 meg, RA	CBA-811-J711-1
I1	Pilot Light (Red)	PL-37R	R7,R35	Control - 2 meg, RA	CBA-811-222-1
I2	Pilot Light (Amber)	PL-38A			
I3	Pilot Light (Red) w/clip	PL-3kR	C1,C2	Speakers - 12" 8 ohms each	S-20011

GA-100

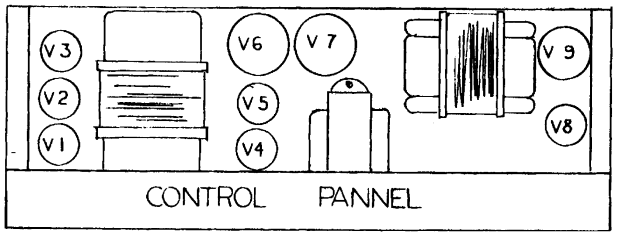


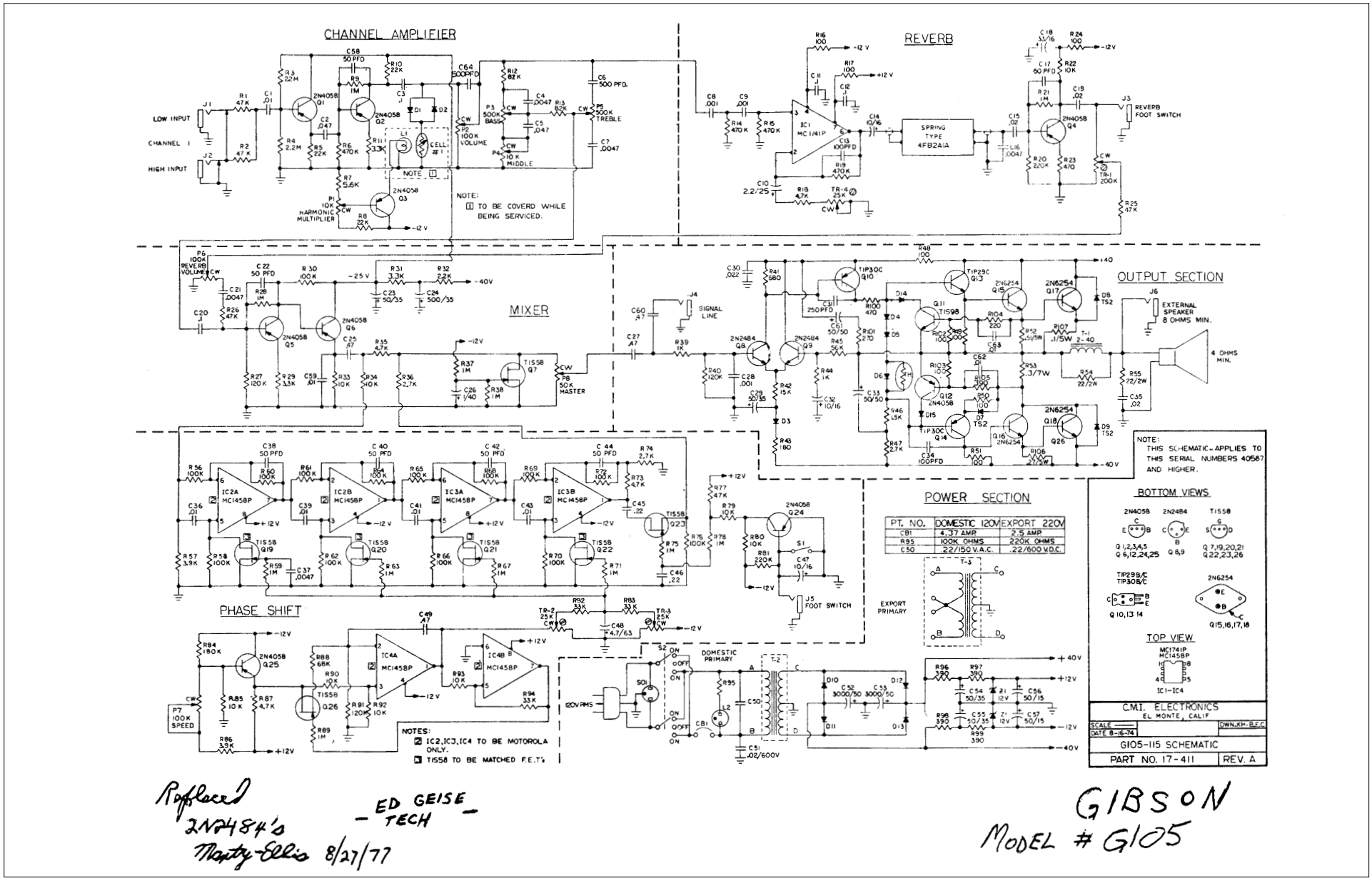
VOLTAGE CHART *

NR.	TYPE	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8	PIN 9
V 1	6EU7	FIL	FIL	—	1.9	0	235	255	39	76
V 2	6BD6	0	2.7	FIL	FIL	120	45	2,7	—	—
V 3	6BD6	0	2.7	FIL	FIL	120	45	2.7	—	—
V 4	GFM8	1.6	1.6	3.8	FIL	FIL	0	3.8	0	260
V 5	GFM8	1.6	1.6	3.8	FIL	FIL	0	3.8	0	260
V 6	GLG GC	GND	FIL	423	345	-38	—	FIL	GND	—
V 7	GL6 GC	GND	FIL	423	345	-38	—	FIL	GND	—
V 8	OC2	425	—	—	—	—	—	350	—	—
V 9	GZ 34	GND	FIL	—	350 AC	—	350 AC	—	430	—

*ALL DC VOLTAGES MEASURED TO CHASSIS WITH V.T.V.M.

TUBE PLACEMENT CHART

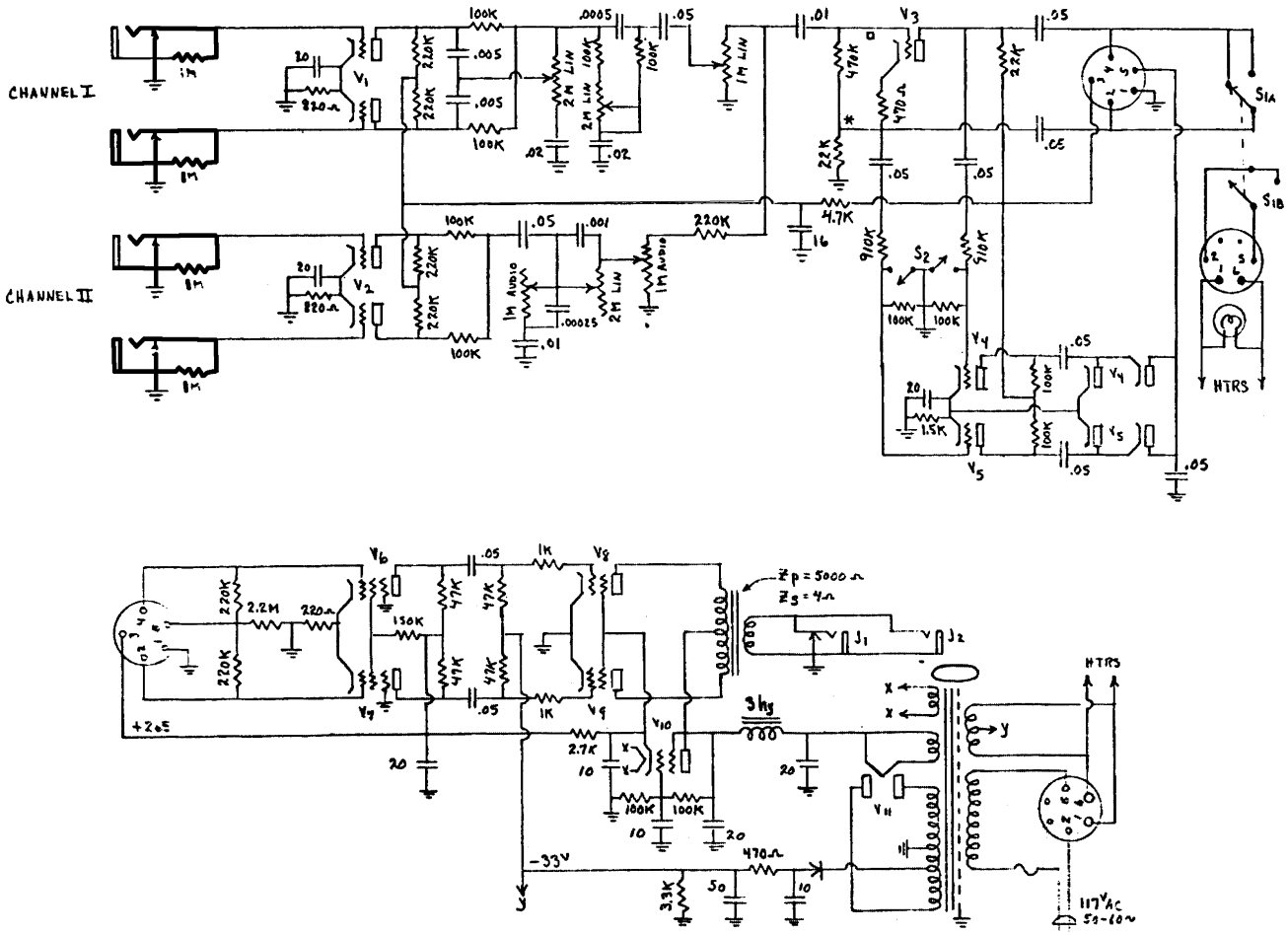




Replaced 2N2484's Marty Ellis 8/27/77 — ED GEISE — TECH

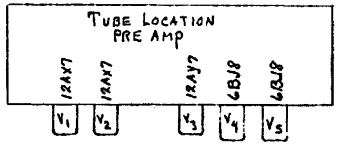
GIBSON MODEL # G105

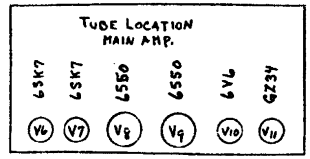
GA-200

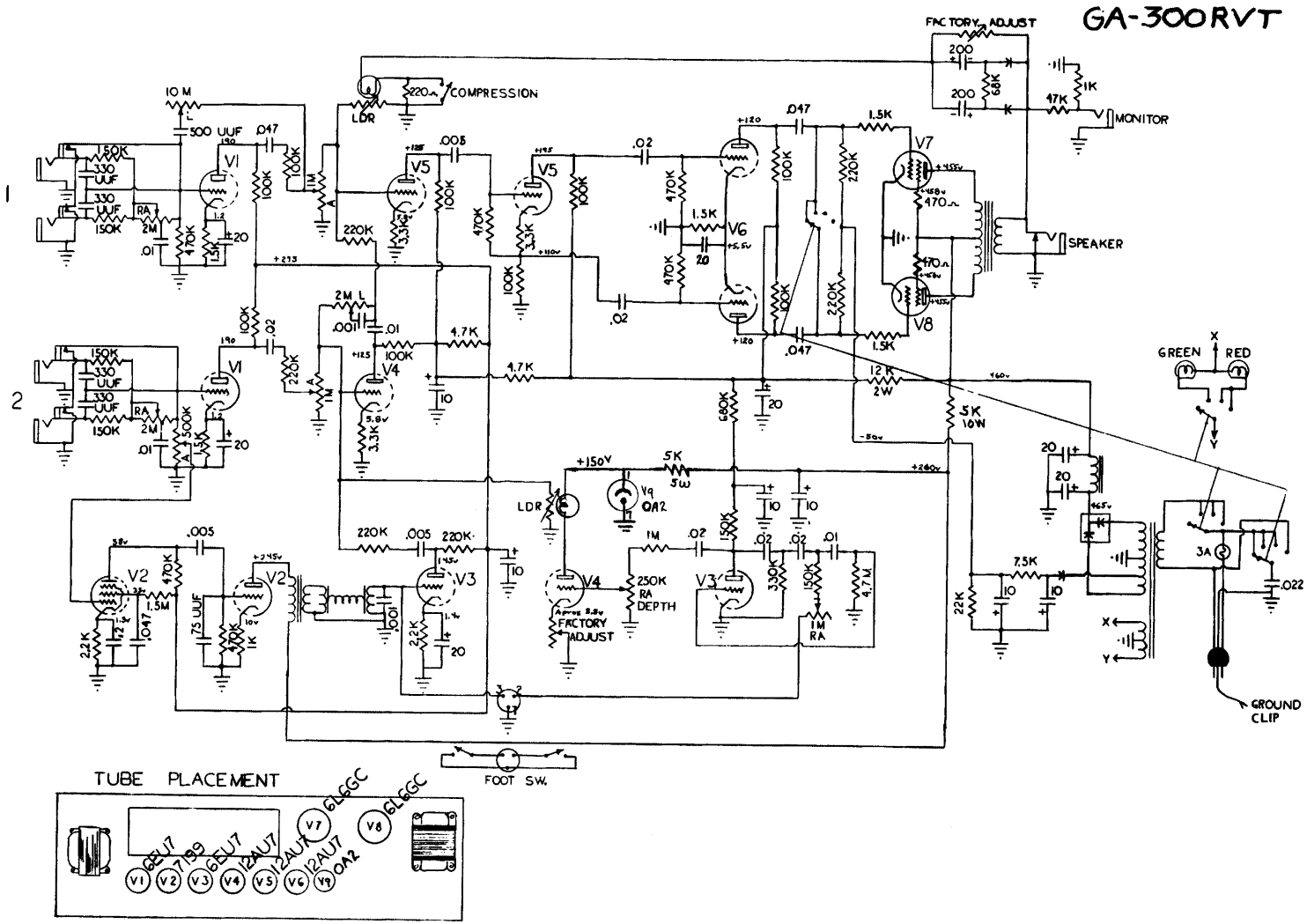


Tube Type use	E_P	E_{SG}	E_G	E_K
V_1 12AY7 CHAN I PREAMP	+135	—	0	+1.15
V_2 " " II " "	+120	—	0	+1.1
V_3 12AY7 PHASE SPLITTER	+210	—	+65 V +420	+6.4
V_4 6DJ8 COMP AMP + RECT	+110	—	0	+4.9
V_5 " " " "	+110	—	0	+4.9
V_6 6SK7 DRIVER + COMP.	+145	+42	-.1	+1.5
V_7 " " "	+145	+42	-.1	+1.5
V_8 6550 PWR AMP	+570	+300	-33	0
V_9 " " "	+570	+300	-33	0
V_{10} 6V6 VOLTAGE REG	+570	+570	+285	+300
V_{11} GZ34 RECTIFIER	470 RMS	—	—	+580

ALL DC READINGS WITH 11 MEG VTVM MEASURED TO CHASSIS







FUSE

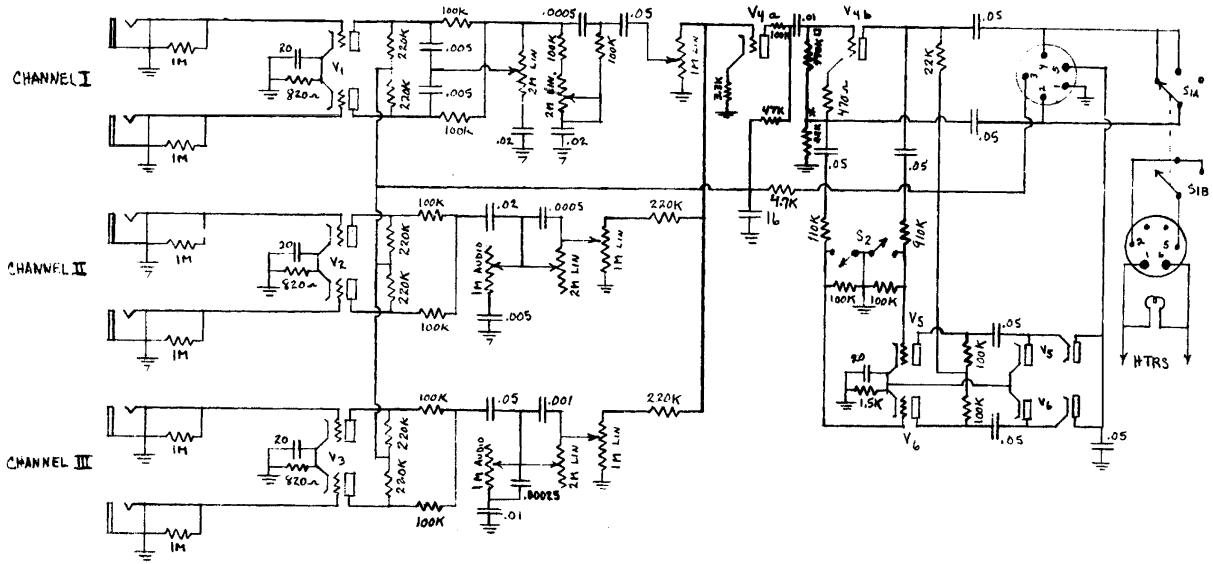
The fuse used in this Amplifier is a type 3AG of three amperes rating.

DO NOT USE FUSES OF HIGHER RATING

SERVICE

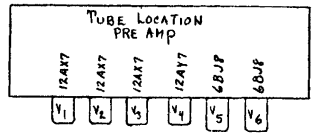
If the amplifier is in need of servicing, it should be taken to a reliable radio man. The electrical diagram in this folder should be shown the repairman to assist him in servicing the amplifier.

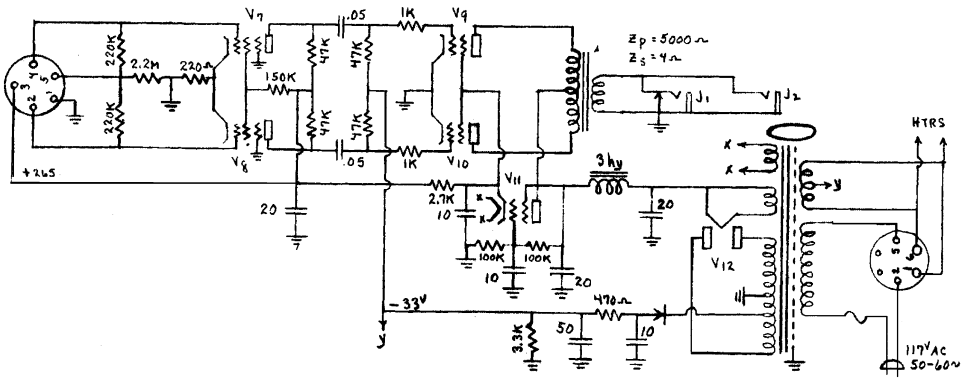
GA-400

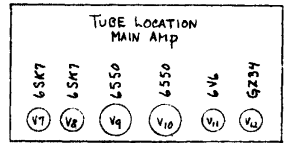


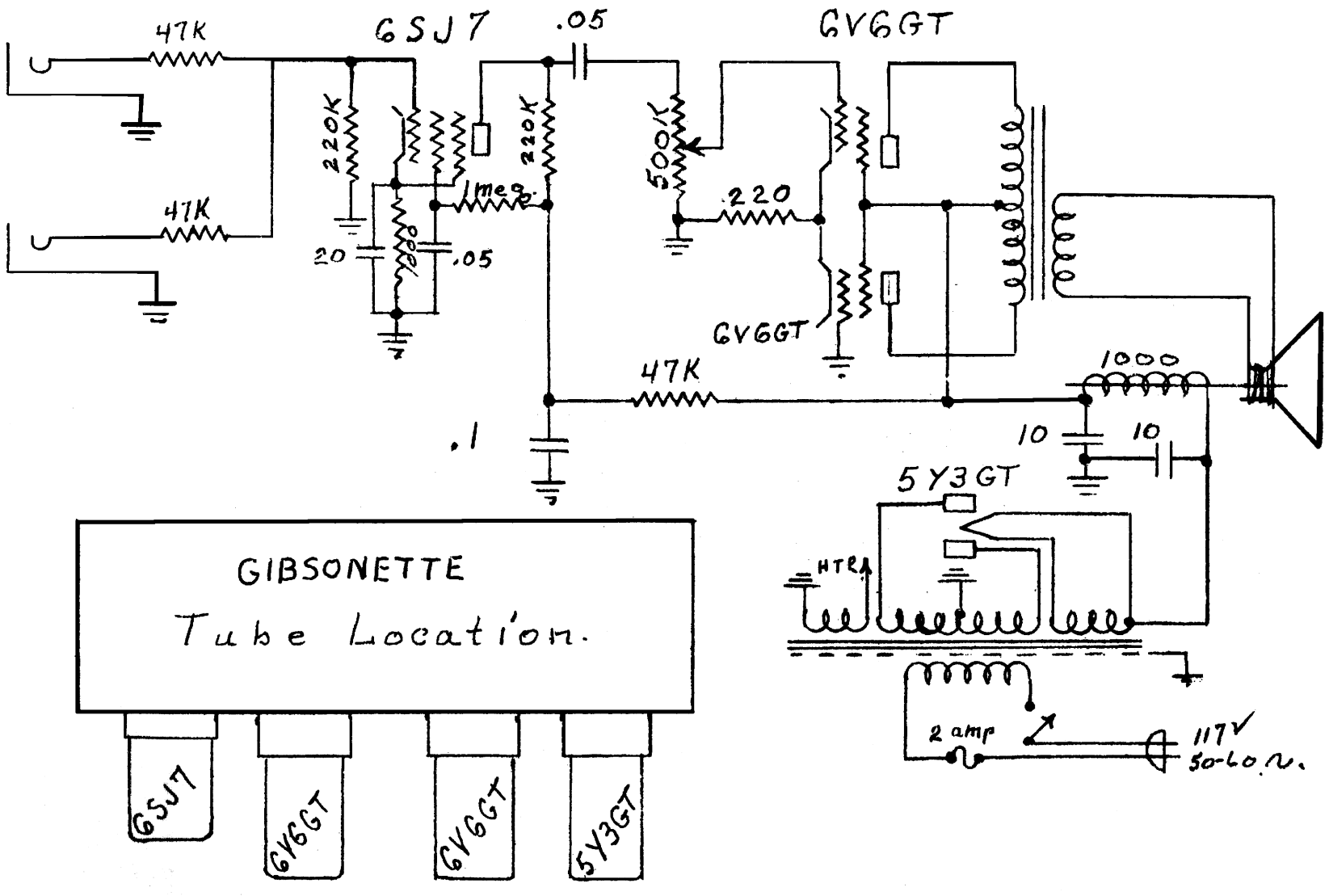
Tube Type Use	E_p	E_{sg}	E_g	E_k
V_1-12AX7 CHAN I PRE AMP	+135	—	0	+1.15
V_2- " " II " "	+110	—	0	+.85
V_3- " " III " "	+105	—	0	+.9
V_4-12AY7 & MIXER AMP & PHASE SPLITTER	+139 / +210	—	0	+3.2 / +64
V_5-6BJ8 Comp. Amp + Reg.	+110	—	0	+4.9
V_6- " " " "	+110	—	0	+4.9
V_7-6SK7 DRIVER	+145	+42	−1	+1.5
V_8- " "	+145	+42	−1	+1.5
V_9-6550 PWR AMP	+370	+300	−33	0
V_{10}- " " "	+370	+300	−33	0
V_{11}-6V6 VOLTAGE REG.	+370	+370	+285	+300
V_{12}-GZ34 RECTIFIER	470 VRMS	—	—	+590

ALL DC READINGS WITH 11 MEG VTVM MEASURED TO CHASSIS



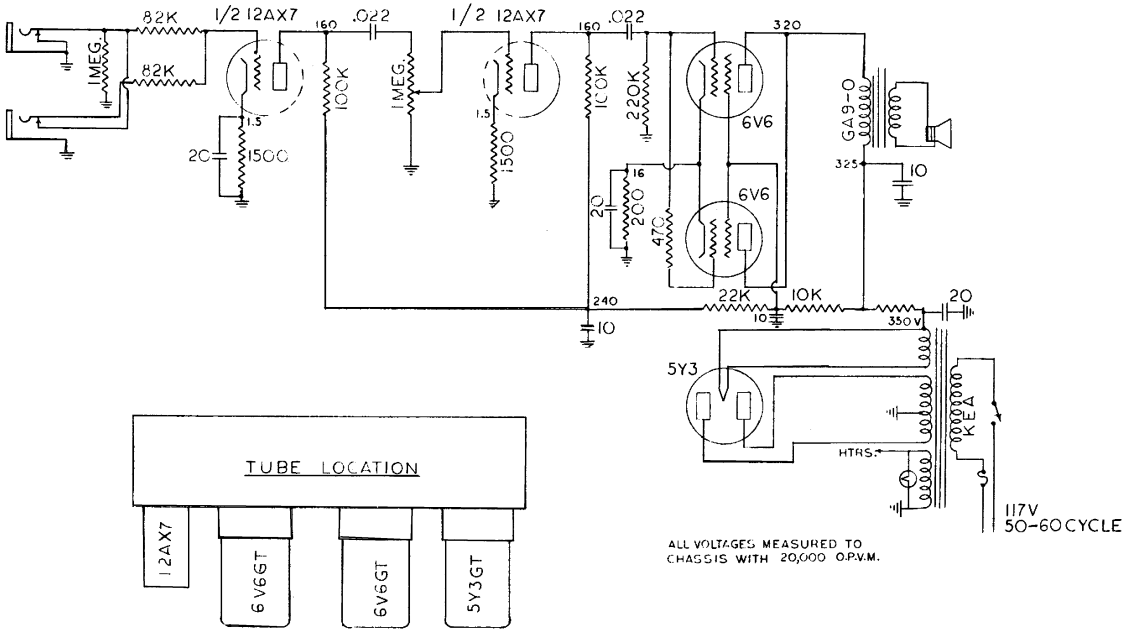




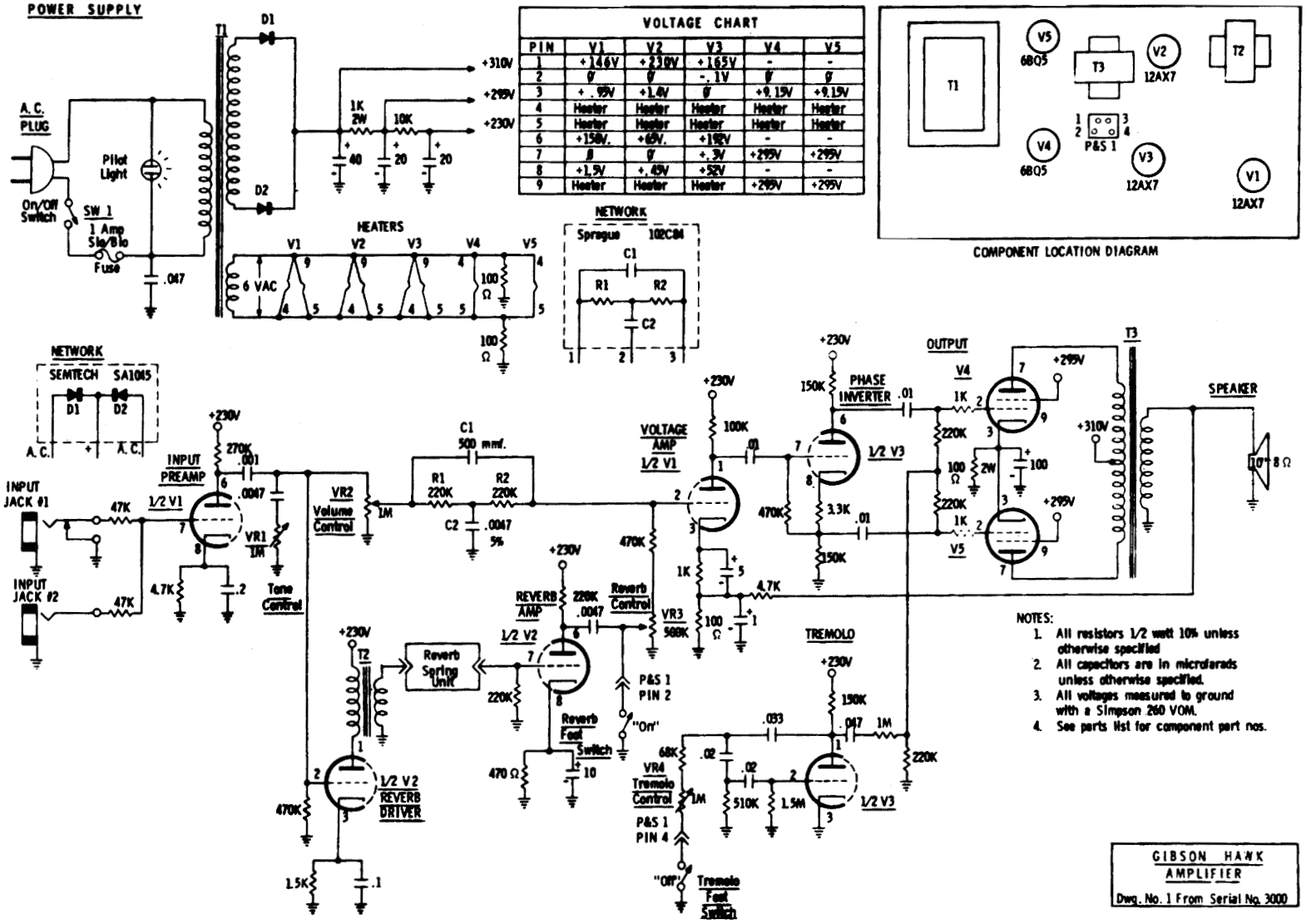

47K
47K
6SJ7
.05
220K
220K
1meg
20
.05
500K
220
6V6GT
6V6GT
47K
.1
1000
10
10
5Y3GT
HTRS
2 amp
117V
50-60 ~.
GIBSONETTE
Tube Location.
6SJ7
6V6GT
6V6GT
5Y3GT

GIBSONETTE

MODEL AMPLIFIER



GIBSON INC., KALAMAZOO, MICH.



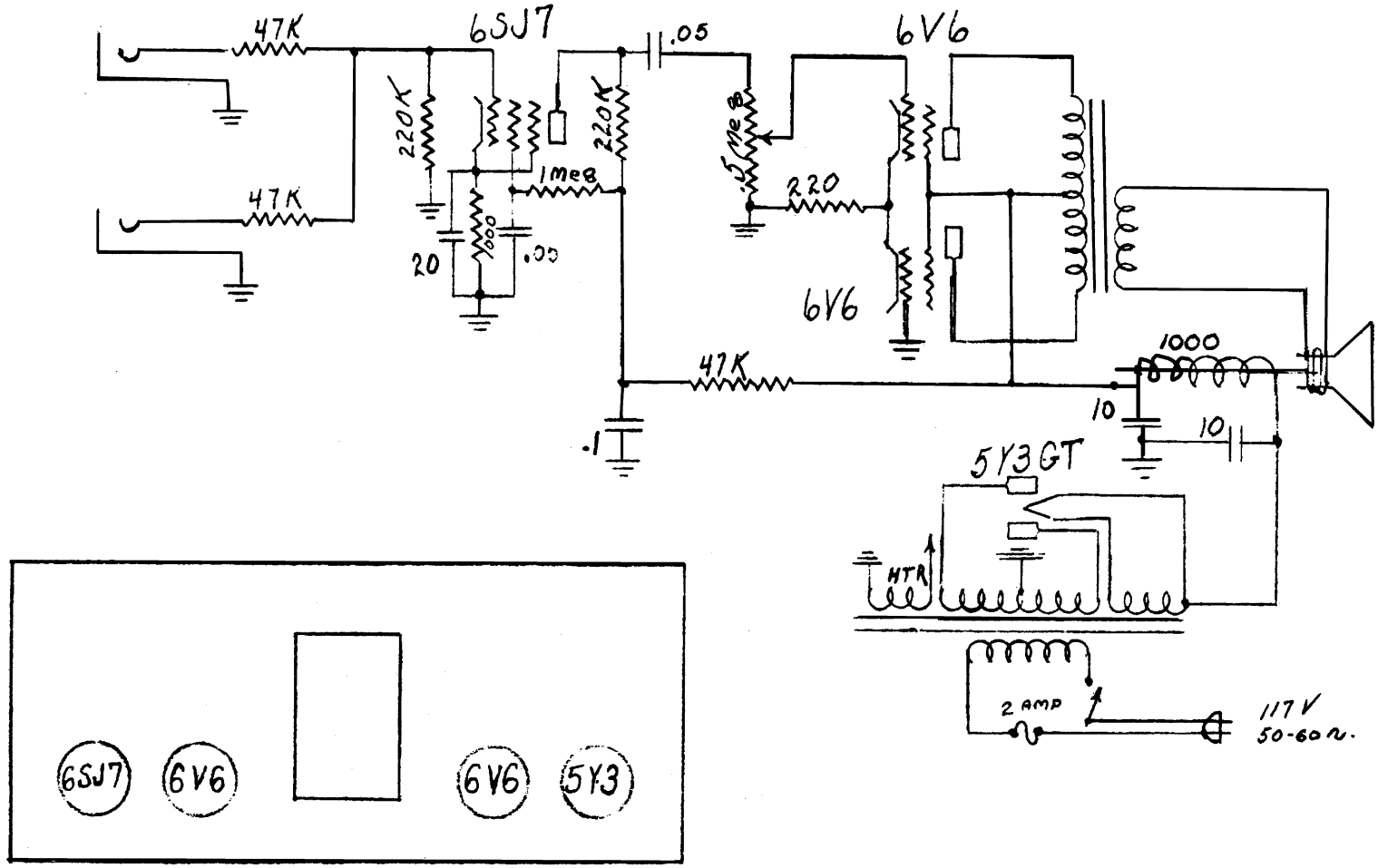
VOLTAGE CHART					
PIN	V1	V2	V3	V4	V5
1	+146V	+230V	+165V	-	-
2	0	0	-.1V	0	0
3	+.99V	+1.4V	0	+9.15V	+9.15V
4	Heater	Heater	Heater	Heater	Heater
5	Heater	Heater	Heater	Heater	Heater
6	+150V.	+65V.	+192V	-	-
7	0	0	+.3V	+295V	+295V
8	+1.9V	+.45V	+52V	-	-
9	Heater	Heater	Heater	+295V	+295V

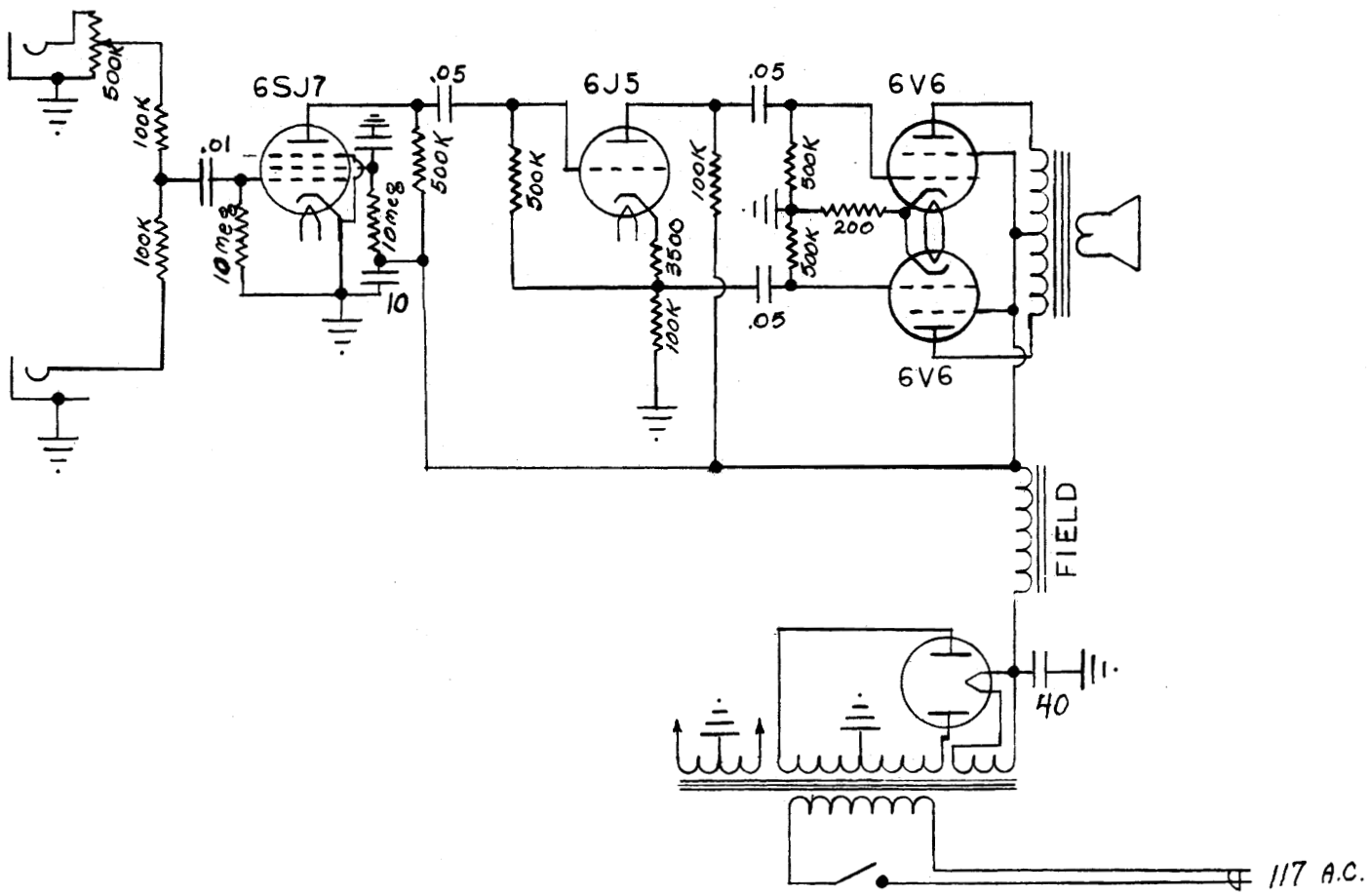
COMPONENT LOCATION DIAGRAM

NOTES:
1. All resistors 1/2 watt 10% unless otherwise specified
2. All capacitors are in microfarads unless otherwise specified.
3. All voltages measured to ground with a Simpson 260 VOM.
4. See parts list for component part nos.

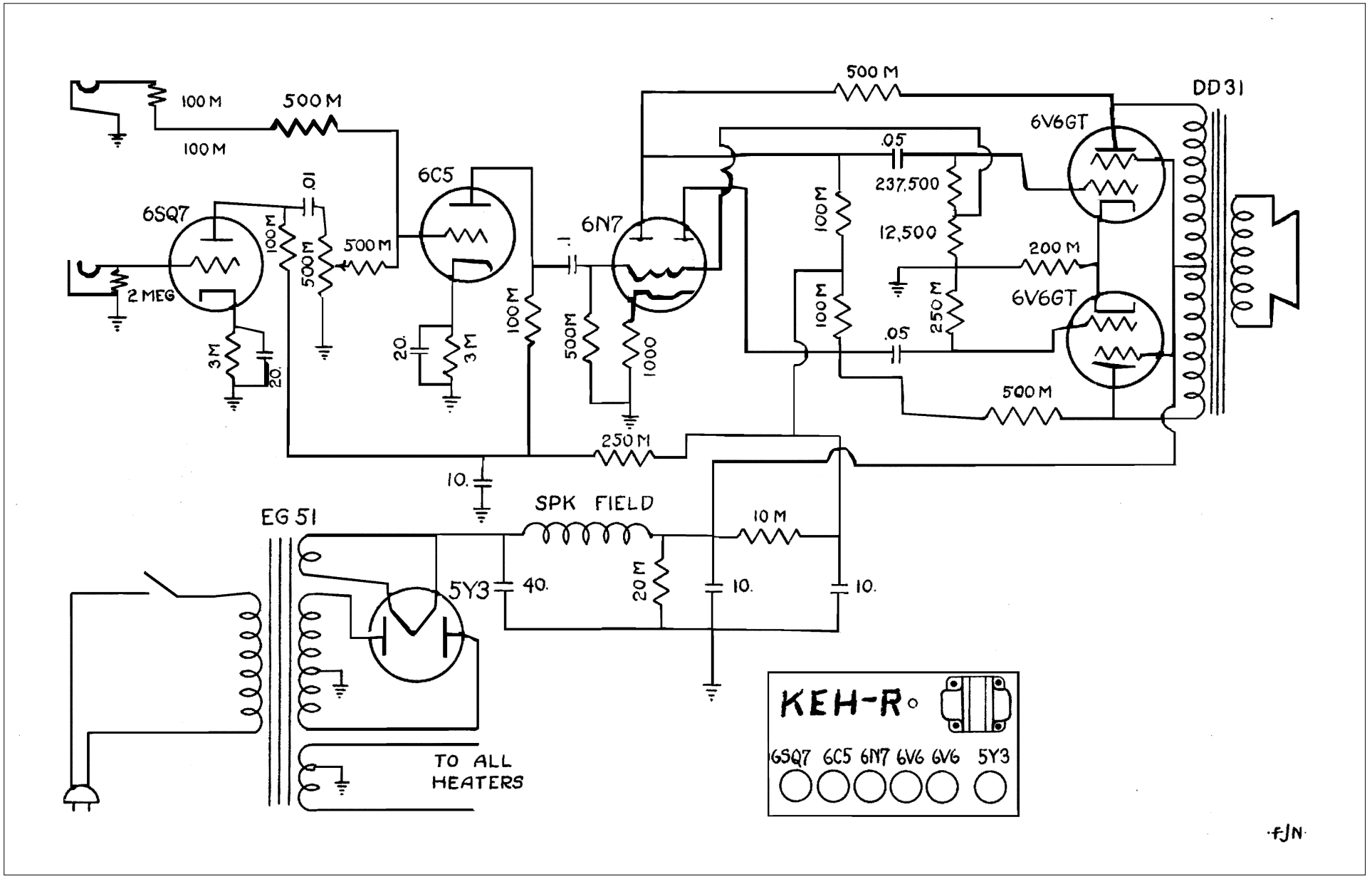
GIBSON HAWK AMPLIFIER
Dwg. No. 1 From Serial No. 3000

KEA.


47K
47K
6SJ7
220K
220K
.05
1meg
.5meg
1meg
500
20
.05
.1
6V6
220
6V6
47K
1000
10
10
5Y3GT
HTR
2 AMP
117V
50-60 ~
6SJ7
6V6
6V6
5Y3

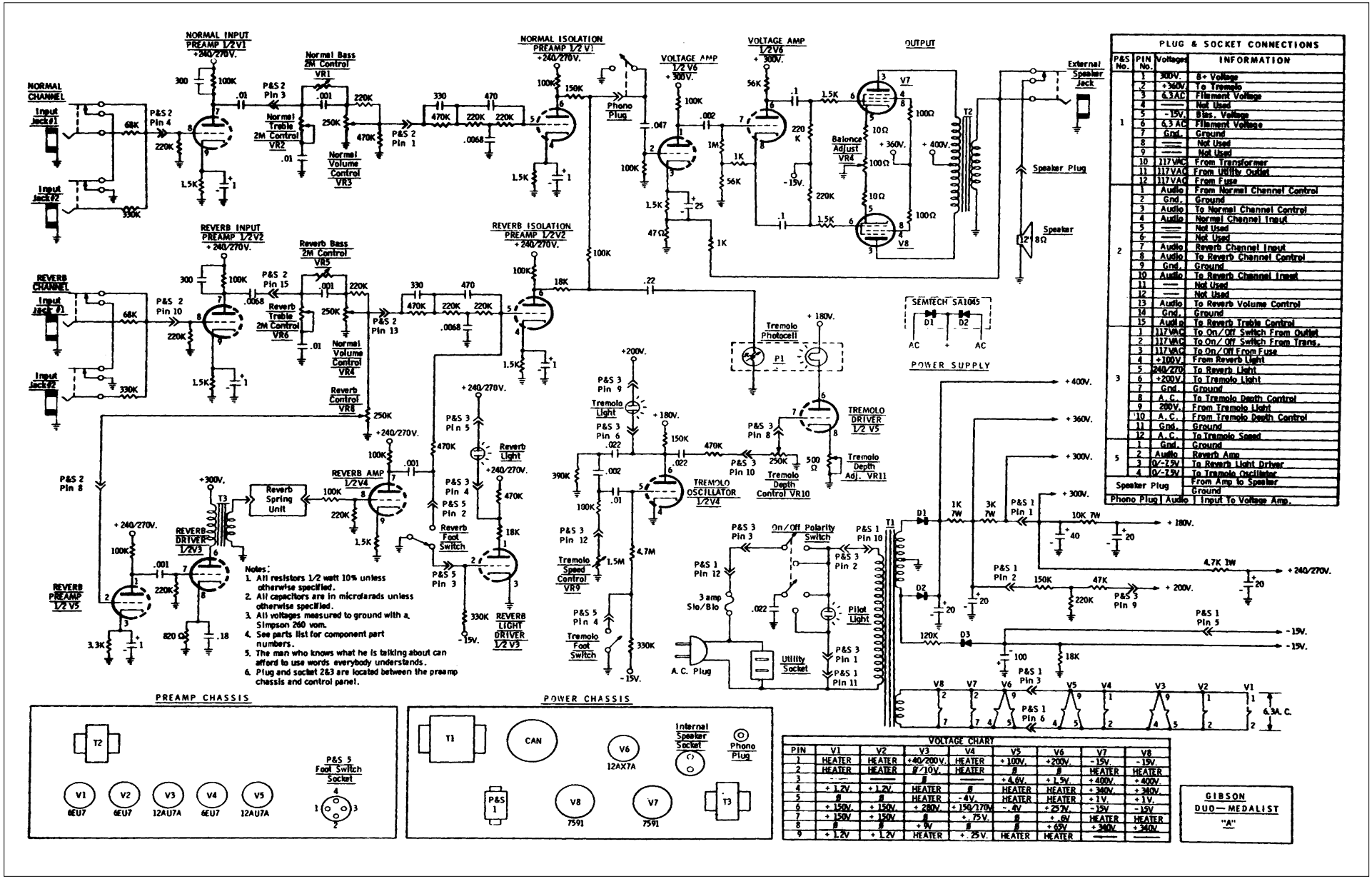


KE H SCHEMATIC
REDRAWN
3/5/56
GIBSON INC.


100 M
500 M
100 M
6SQ7
.01
100 M
500 M
500 M
6C5
2 MEG
3 M
20.
20.
3 M
100 M
500 M
1000
6N7
500 M
DD31
6V6GT
.05
237,500
12,500
100 M
100 M
200 M
6V6GT
250 M
.05
500 M
250 M
10.
SPK FIELD
EG 51
10 M
5Y3
40.
20 M
10.
10.
TO ALL
HEATERS
KEH-R
6SQ7 6C5 6N7 6V6 6V6 5Y3
FJN

DUO-MEDALIST **"A"**

Gibson



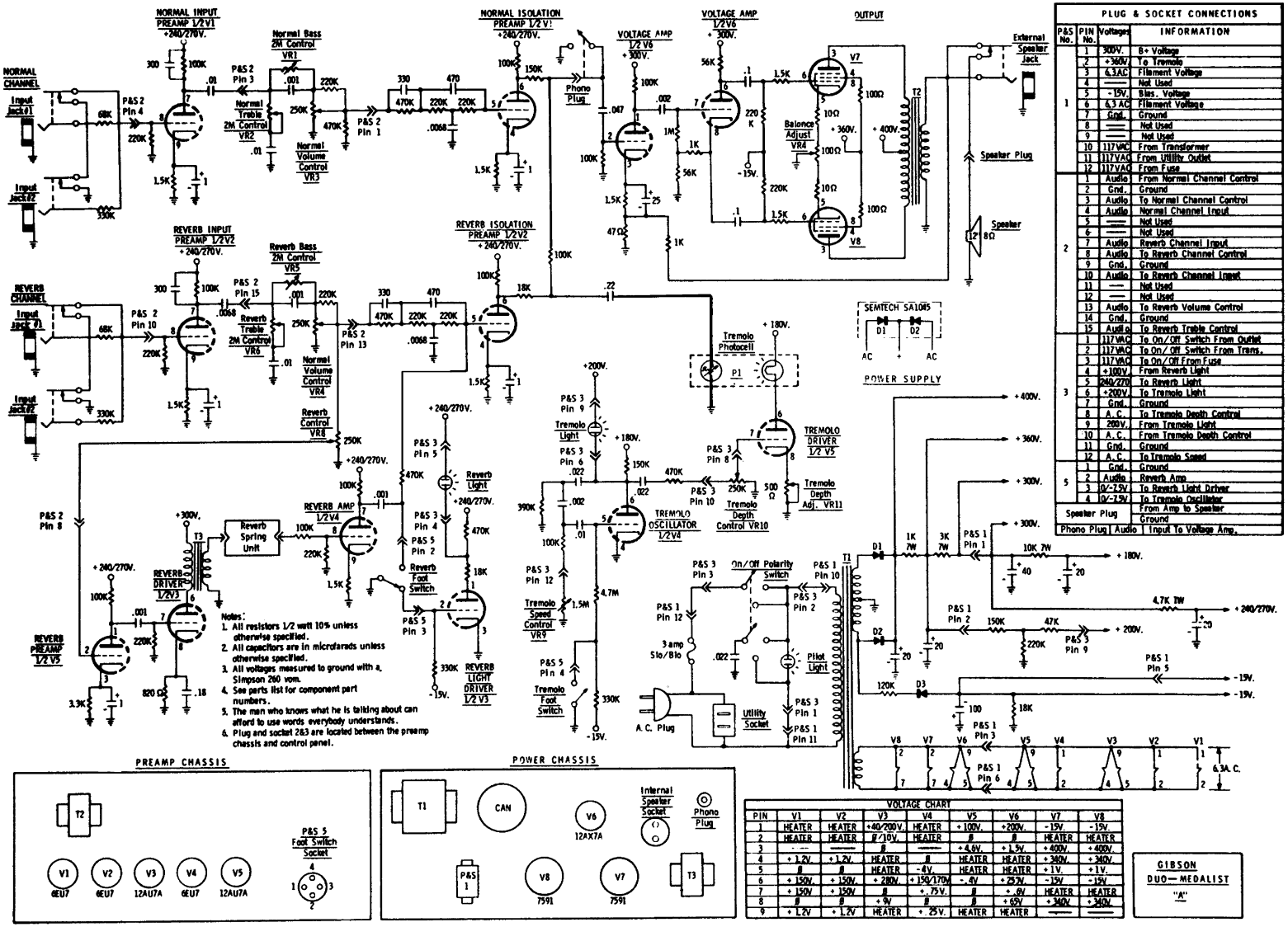
PLUG & SOCKET CONNECTIONS			
P&S No.	PIN No.	Voltage	INFORMATION
1	1	300V.	B+ Voltage
	2	+360V	To Tremolo
	3	6.3AC	Filament Voltage
	4	——	Not Used
	5	-15V.	Bias. Voltage
	6	6.3 AC	Filament Voltage
	7	Gnd.	Ground
	8	——	Not Used
	9	——	Not Used
	10	117 VAC	From Transformer
	11	117 VAC	From Utility Outlet
	12	117 VAC	From Fuse
2	1	Audio	From Normal Channel Control
	2	Gnd.	Ground
	3	Audio	To Normal Channel Control
	4	Audio	Normal Channel Input
	5	——	Not Used
	6	——	Not Used
	7	Audio	Reverb Channel Input
	8	Audio	To Reverb Channel Control
	9	Gnd.	Ground
	10	Audio	To Reverb Channel Input
	11	——	Not Used
	12	——	Not Used
	13	Audio	To Reverb Volume Control
	14	Gnd.	Ground
	15	Audio	To Reverb Treble Control
3	1	117 VAC	To On/Off Switch From Outlet
	2	117 VAC	To On/Off Switch From Trans.
	3	117 VAC	To On/Off From Fuse
	4	+100V.	From Reverb Light
	5	240/270	To Reverb Light
	6	+200V	To Tremolo Light
	7	Gnd.	Ground
	8	A.C.	To Tremolo Depth Control
	9	200V.	From Tremolo Light
	10	A.C.	From Tremolo Depth Control
	11	Gnd.	Ground
	12	A.C.	To Tremolo Speed
5	1	Gnd.	Ground
	2	Audio	Reverb Amp
	3	0V-7.5V	To Reverb Light Driver
	4	0V-7.5V	To Tremolo Oscillator
Speaker Plug			From Amp to Speaker
			Ground
Phono Plug		Audio	Input To Voltage Amp.

PREAMP CHASSIS

POWER CHASSIS

VOLTAGE CHART								
PIN	V1	V2	V3	V4	V5	V6	V7	V8
1	HEATER	HEATER	+40/200V.	HEATER	+ 100V.	+200V.	- 15V.	- 15V.
2	HEATER	HEATER	@ 10V.	HEATER	@	@	HEATER	HEATER
3	- - -	——	@	——	+ 6.6V.	+ 1.5V.	+ 400V.	+ 400V.
4	+ 1.2V.	+ 1.2V.	HEATER	@	HEATER	HEATER	+ 340V.	+ 340V.
5	@	@	HEATER	- 4V.	HEATER	HEATER	+ 1V.	+ 1V.
6	+ 150V.	+ 150V.	+ 280V.	+ 150/170V.	- .4V.	+ 257V.	- 15V.	- 15V.
7	+ 150V.	+ 150V.	@	+ .75V.	@	+ .6V.	HEATER	HEATER
8	@	@	+ 9V.	@	@	+ 65V.	+ 340V.	+ 340V.
9	+ 1.2V.	+ 1.2V.	HEATER	+ .25V.	HEATER	HEATER	——	——

GIBSON
DUO—MEDALIST
"A"



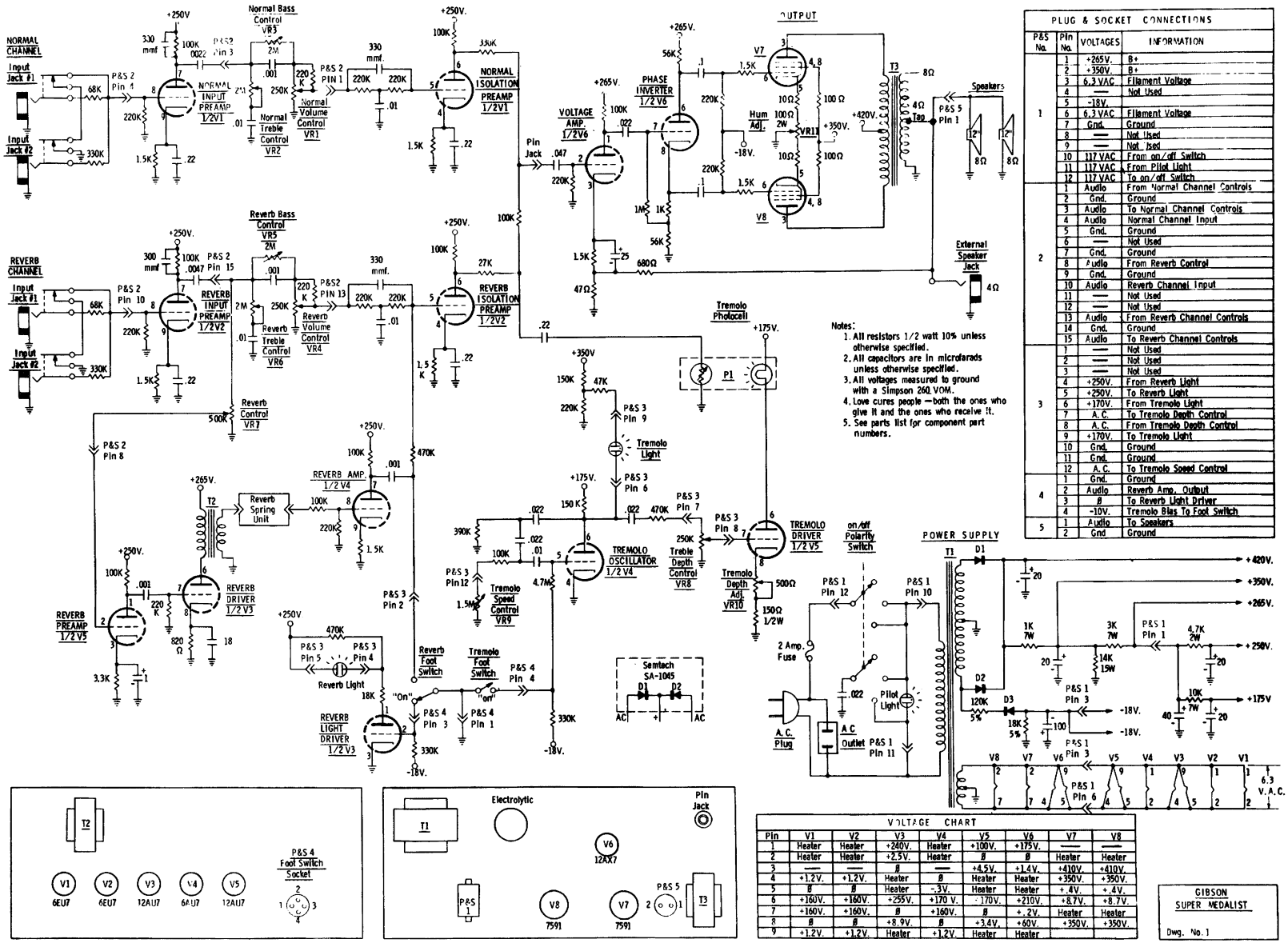
PLUG & SOCKET CONNECTIONS			
P&S No.	PIN No.	Voltage	INFORMATION
1	1	300V.	B+ Voltage
	2	+360V	To Tremolo
	3	6.3AC	Filament Voltage
	4	—	Not Used
	5	-15V.	Bias. Voltage
	6	6.3 AC	Filament Voltage
	7	Gnd.	Ground
	8	—	Not Used
	9	—	Not Used
	10	117VAC	From Transformer
	11	117VAC	From Utility Outlet
	12	117VAC	From Fuse
2	1	Audio	From Normal Channel Control
	2	Gnd.	Ground
	3	Audio	To Normal Channel Control
	4	Audio	Normal Channel Input
	5	—	Not Used
	6	—	Not Used
	7	Audio	Reverb Channel Input
	8	Audio	To Reverb Channel Control
	9	Gnd.	Ground
	10	Audio	To Reverb Channel Input
	11	—	Not Used
	12	—	Not Used
	13	Audio	To Reverb Volume Control
	14	Gnd.	Ground
	15	Audio	To Reverb Treble Control
3	1	117VAC	To On/Off Switch From Outlet
	2	117VAC	To On/Off Switch From Trans.
	3	117VAC	To On/Off From Fuse
	4	+100V.	From Reverb Light
	5	240/270	To Reverb Light
	6	+200V.	To Tremolo Light
	7	Gnd.	Ground
	8	A.C.	To Tremolo Depth Control
	9	200V.	From Tremolo Light
	10	A.C.	From Tremolo Depth Control
	11	Gnd.	Ground
	12	A.C.	To Tremolo Speed
5	1	Gnd.	Ground
	2	Audio	Reverb Amp
	3	0/-2.5V	To Reverb Light Driver
	4	0/-2.5V	To Tremolo Oscillator
Speaker Plug			From Amp to Speaker
			Ground
Phono Plug	Audio		Input To Voltage Amp.

VOLTAGE CHART								
PIN	V1	V2	V3	V4	V5	V6	V7	V8
1	HEATER	HEATER	+40/200V.	HEATER	+100V.	+200V.	-15V.	-15V.
2	HEATER	HEATER	0/10V.	HEATER	0	0	HEATER	HEATER
3	—	—	0	—	+4.6V.	+1.5V.	+400V.	+400V.
4	+1.2V.	+1.2V.	HEATER	0	HEATER	HEATER	+360V.	+360V.
5	0	0	HEATER	-6V.	HEATER	HEATER	+1V.	+1V.
6	+150V.	+150V.	+280V.	+150/170V.	-.6V.	+25V.	-15V.	-15V.
7	+150V.	+150V.	0	+.75V.	0	+.6V.	HEATER	HEATER
8	0	0	+9V.	0	0	+65V.	+360V.	+360V.
9	+1.2V.	+1.2V.	HEATER	+25V.	HEATER	HEATER	—	—

GIBSON
DUO—MEDALIST
"A"

SUPER MEDALIST

Gibson



PLUG & SOCKET CONNECTIONS

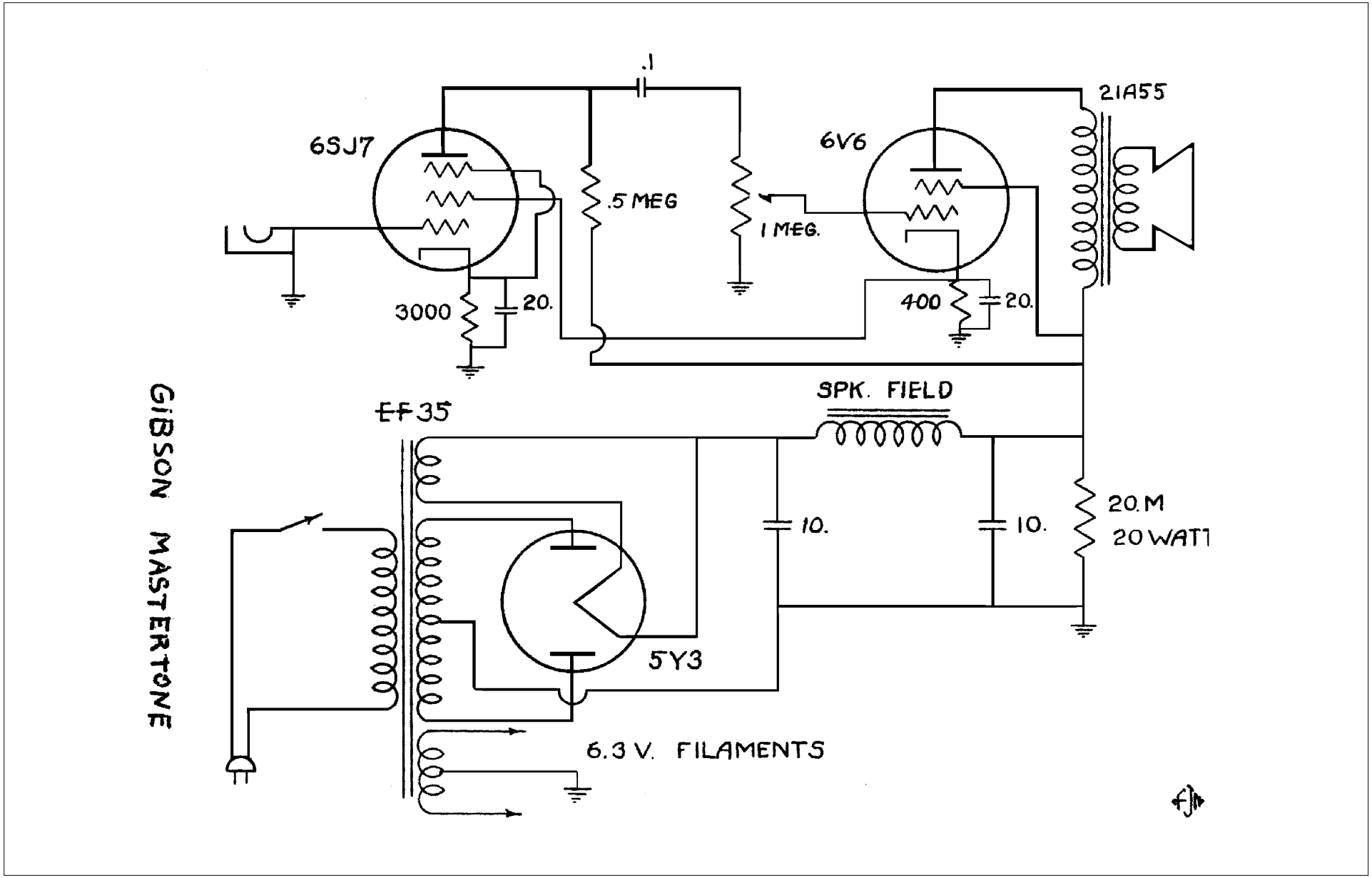
P&S No.	Pin No.	VOLTAGES	INFORMATION
1	1	+265V.	B+
	2	+350V.	B+
	3	6.3 VAC	Filament Voltage
	4	—	Not Used
	5	-18V.	
	6	6.3 VAC	Filament Voltage
	7	Gnd.	Ground
	8	—	Not Used
	9	—	Not Used
	10	117 VAC	From on/off Switch
	11	117 VAC	From Pilot Light
	12	117 VAC	To on/off Switch
2	1	Audio	From Normal Channel Controls
	2	Gnd.	Ground
	3	Audio	To Normal Channel Controls
	4	Audio	Normal Channel Input
	5	Gnd.	Ground
	6	—	Not Used
	7	Gnd.	Ground
	8	Audio	From Reverb Control
	9	Gnd.	Ground
	10	Audio	Reverb Channel Input
	11	—	Not Used
	12	—	Not Used
	13	Audio	From Reverb Channel Controls
	14	Gnd.	Ground
	15	Audio	To Reverb Channel Controls
3	1	—	Not Used
	2	—	Not Used
	3	—	Not Used
	4	+250V.	From Reverb Light
	5	+250V.	To Reverb Light
	6	+170V.	From Tremolo Light
	7	A.C.	To Tremolo Depth Control
	8	A.C.	From Tremolo Depth Control
	9	+170V.	To Tremolo Light
	10	Gnd.	Ground
	11	Gnd.	Ground
	12	A.C.	To Tremolo Speed Control
4	1	Gnd.	Ground
	2	Audio	Reverb Amp. Output
	3	B	To Reverb Light Driver
	4	-10V.	Tremolo Bias To Foot Switch
5	1	Audio	To Speakers
	2	Gnd	Ground

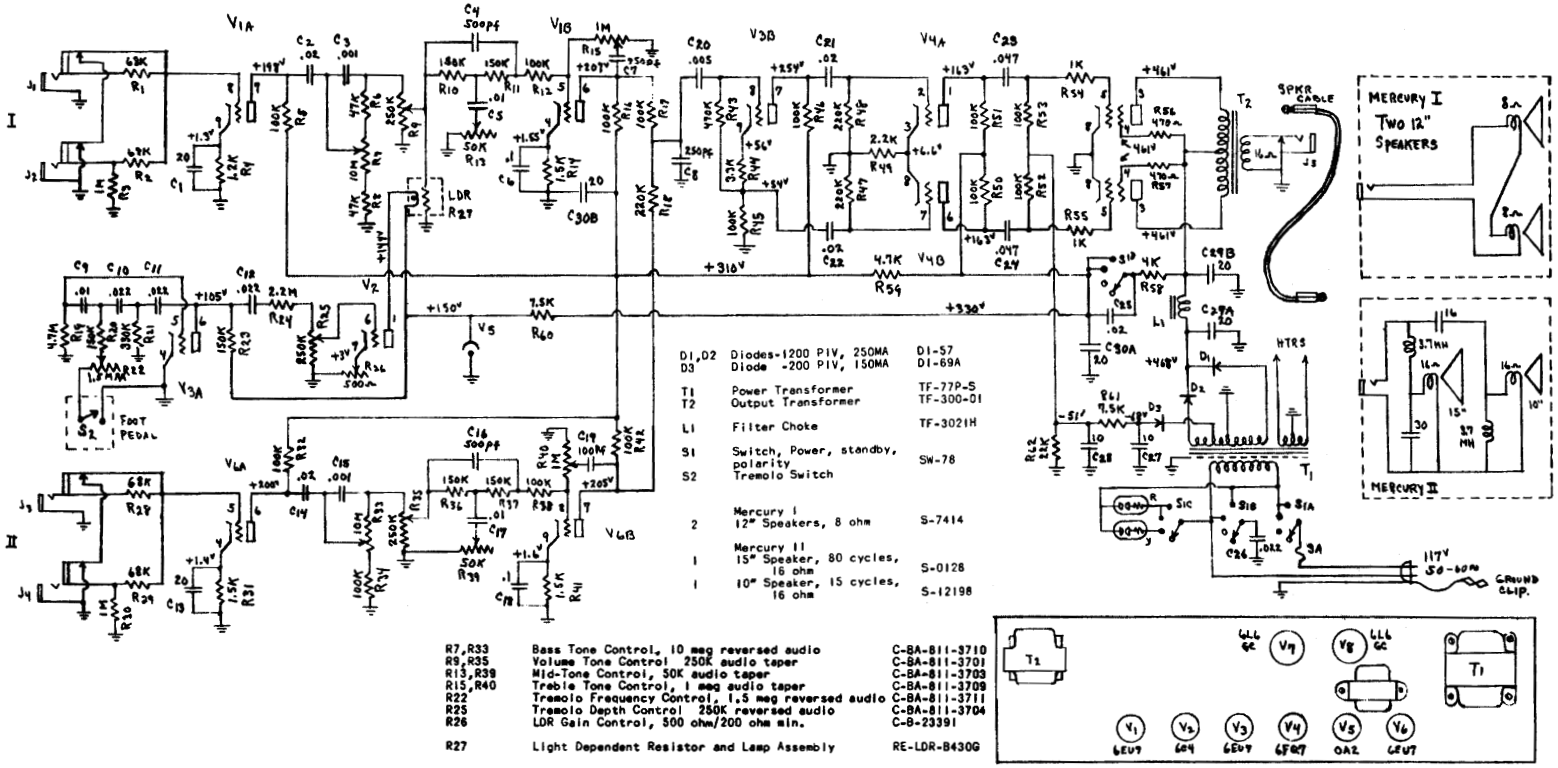
VOLTAGE CHART

Pin	V1	V2	V3	V4	V5	V6	V7	V8
1	Heater	Heater	+240V.	Heater	+100V.	+175V.	—	—
2	Heater	Heater	+2.5V.	Heater	B	B	Heater	Heater
3	—	—	B	—	+4.5V.	+1.4V.	+410V.	+410V.
4	+1.2V.	+1.2V.	Heater	B	Heater	Heater	+350V.	+350V.
5	B	B	Heater	-.3V.	Heater	Heater	+.4V.	+.4V.
6	+160V.	+160V.	+255V.	+170 V.	-170V.	+210V.	+8.7V.	+8.7V.
7	+160V.	+160V.	B	+160V.	B	+.2V.	Heater	Heater
8	B	B	+8.9V.	B	+3.4V.	+60V.	+350V.	+350V.
9	+1.2V.	+1.2V.	Heater	+1.2V.	Heater	Heater		

GIBSON SUPER MEDALIST

Dwg. No. 1


.1
6SJ7
.5 MEG
1 MEG.
6V6
21A55
3000
20.
400
20.
SPK. FIELD
EF35
10.
10.
20.M
20 WATT
5Y3
6.3 V. FILAMENTS
GIBSON MASTERTONE



Mercury I and II

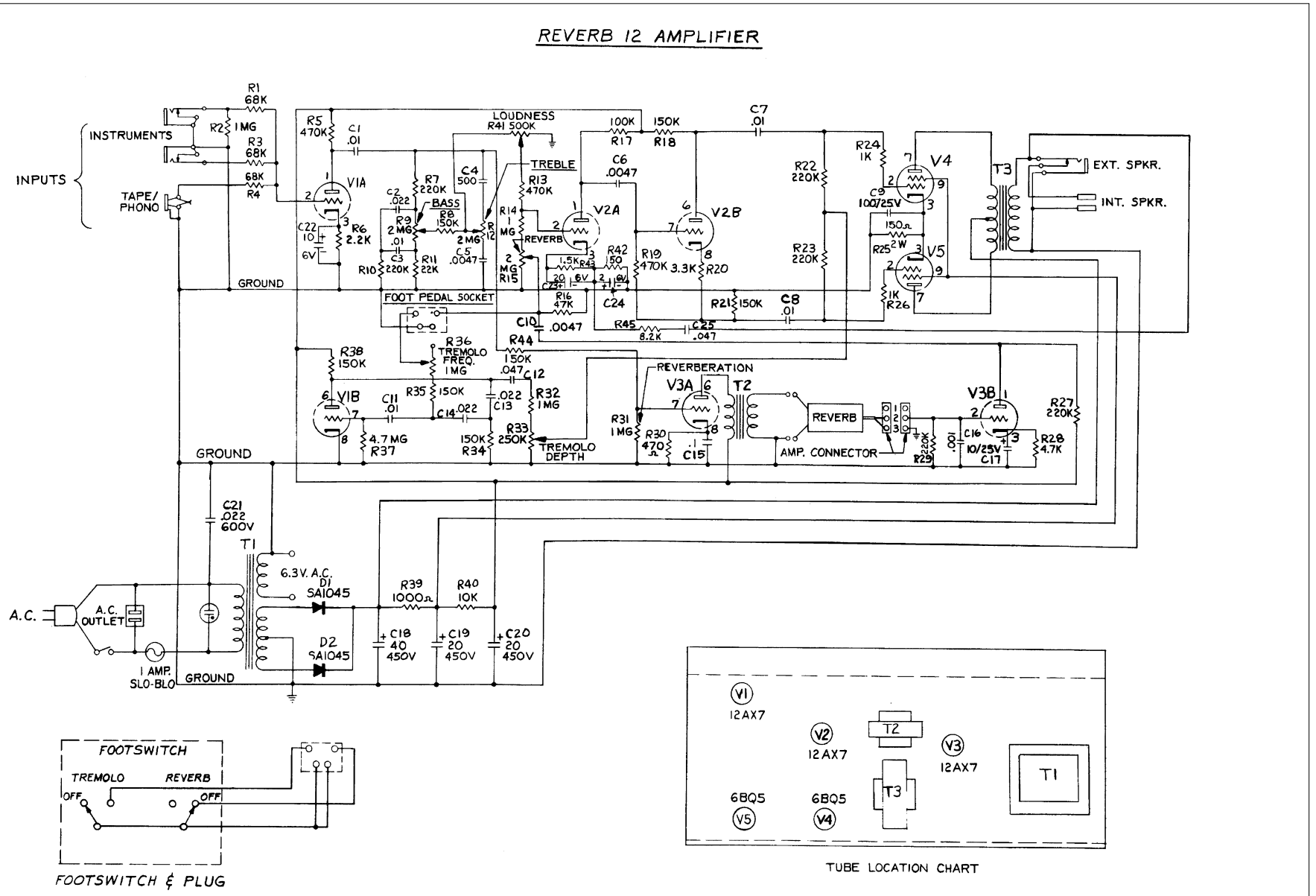
FUSE

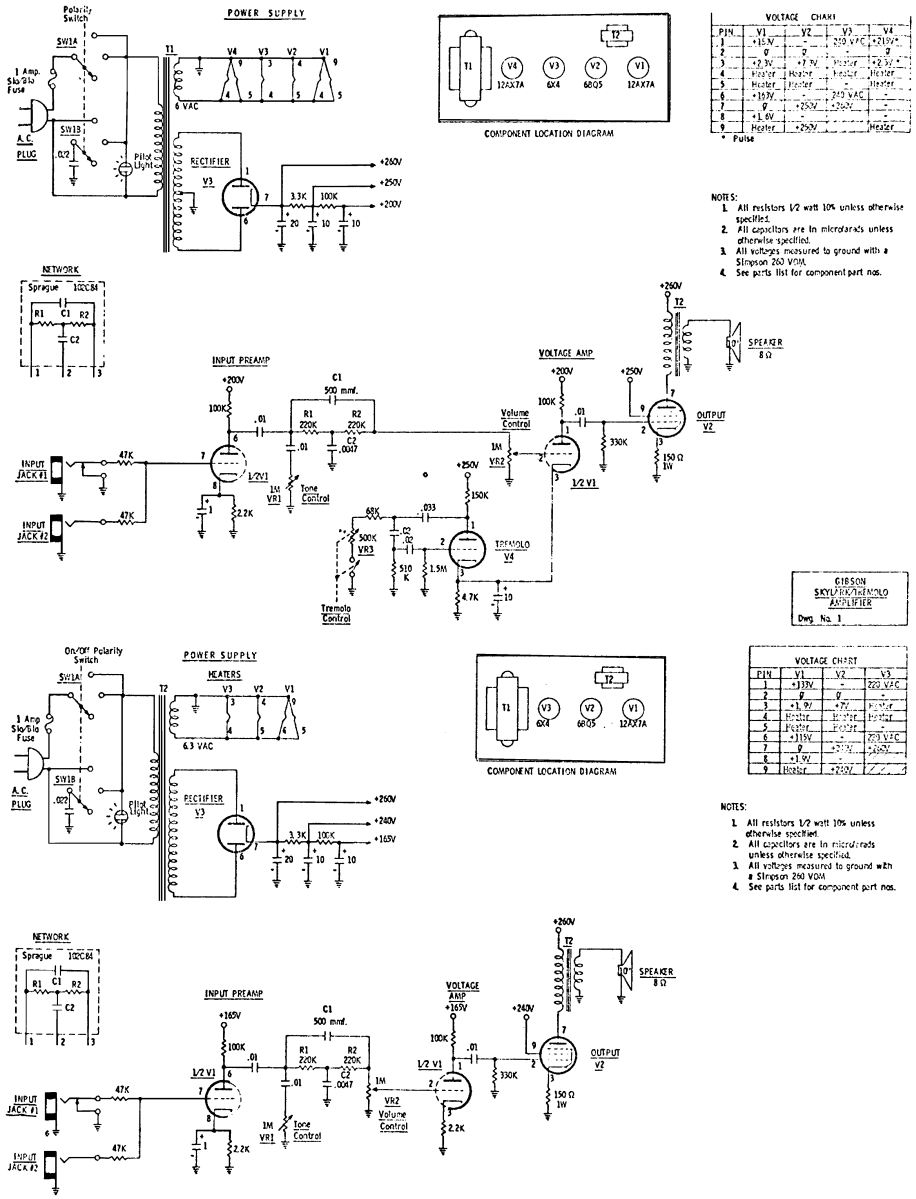
The fuse used in this Amplifier is a type 3AG of three amperes rating.

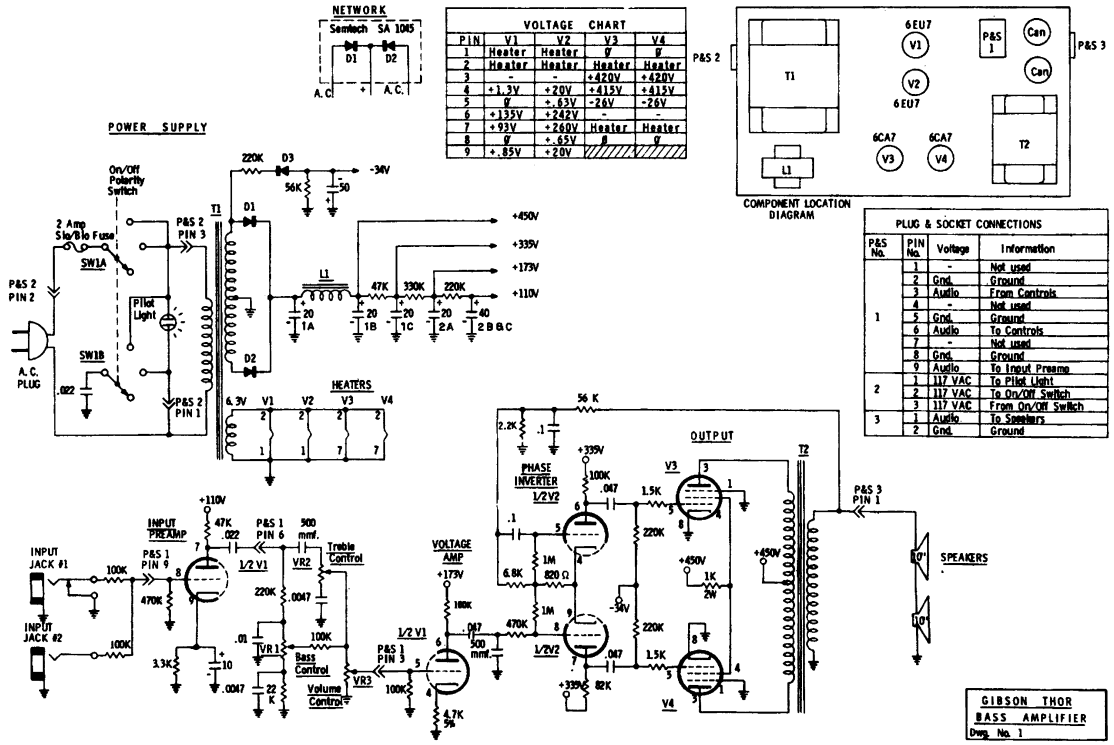
DO NOT USE FUSES OF HIGHER RATING

SERVICE

If the amplifier is in need of servicing, it should be taken to a reliable radio man. The electrical diagram in this folder should be shown the repairman to assist him in servicing the amplifier.


REVERB 12 AMPLIFIER
INPUTS
INSTRUMENTS
TAPE/ PHONO
R1 68K
R2 1MG
R3 68K
R4 68K
R5 470K
C1 .01
V1A
R6 2.2K
C22 10 6V
R7 220K
C2 .022
BASS
R8 150K
R9 2MG
C3 .01
R10 220K
R11 22K
C4 500
C5 .0047
R12 2MG
LOUDNESS R41 500K
TREBLE
R13 470K
R14 1MG
R15 2MG
REVERB
V2A
V2B
C6 .0047
100K R17
150K R18
C7 .01
R19 470K
3.3K R20
R21 150K
C8 .01
R22 220K
R23 220K
R24 1K
V4
C9 100/25V
150Ω R25 2W
V5
1K R26
T3
EXT. SPKR.
INT. SPKR.
GROUND
FOOT PEDAL SOCKET
C10 .0047
R16 47K
C23
C24
R42 150
R43 1.5K
R45 8.2K
C25 .047
R36 TREMOLO FREQ. 1MG
R44 150K
.047 C12
R38 150K
V1B
C11 .01
R35 150K
C13 .022
C14 .022
R32 1MG
R33 250K
TREMOLO DEPTH
R34 150K
4.7MG R37
REVERBERATION
V3A
T2
R31 1MG
R30 470Ω
C15 .1
REVERB
AMP. CONNECTOR
R29 220K
C16 .001
C17 10/25V
V3B
R27 220K
R28 4.7K
C21 .022 600V
T1
6.3V. A.C.
D1 SA1045
D2 SA1045
R39 1000Ω
R40 10K
C18 40 450V
C19 20 450V
C20 20 450V
A.C.
A.C. OUTLET
1 AMP. SLO-BLO
FOOTSWITCH
TREMOLO
REVERB
OFF
OFF
FOOTSWITCH & PLUG
V1 12AX7
V2 12AX7
T2
V3 12AX7
T1
6BQ5 V5
6BQ5 V4
T3
TUBE LOCATION CHART

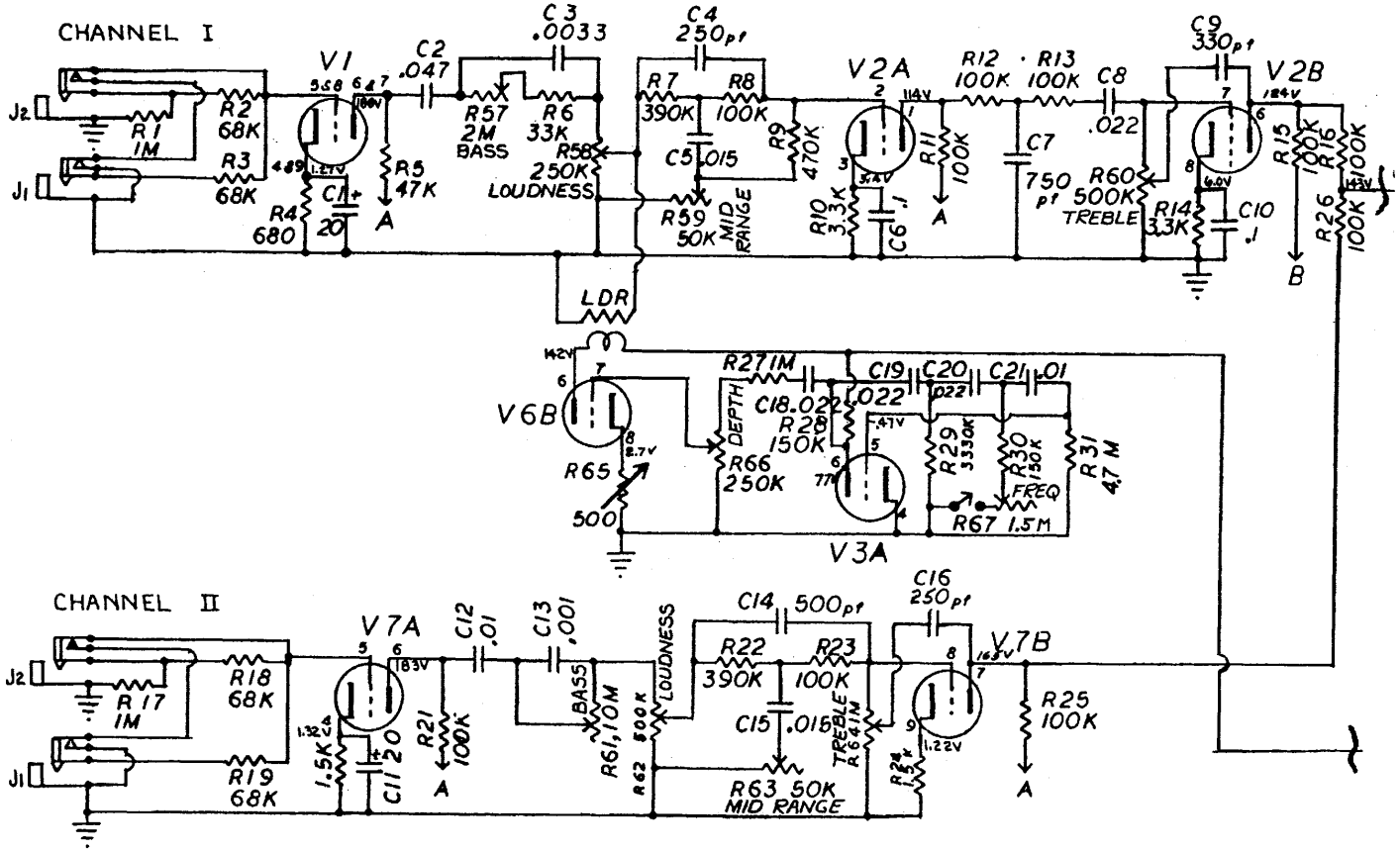

POWER SUPPLY
Polarity Switch
SW1A
SW1B
1 Amp. Slo/Blo Fuse
A.C. PLUG
Pilot Light
T1
6 VAC
RECTIFIER
V3
+260V
+250V
+200V
COMPONENT LOCATION DIAGRAM
T1
T2
V4 12AX7A
V3 6X4
V2 6BQ5
V1 12AX7A
VOLTAGE CHART
PIN V1 V2 V3 V4
1 +15.5V - 220 VAC +210V*
2 0 0 0 0
3 +2.3V +7.3V Heater +2.3V
4 Heater Heater Heater Heater
5 Heater Heater - Heater
6 +169V - 240 VAC -
7 0 +250V +260V -
8 +1.6V - - -
9 Heater +250V - Heater
* Pulse
NOTES:
1. All resistors 1/2 watt 10% unless otherwise specified.
2. All capacitors are in microfarads unless otherwise specified.
3. All voltages measured to ground with a Simpson 260 VOM.
4. See parts list for component part nos.
NETWORK
Sprague 122C84
R1 C1 R2 C2
INPUT PREAMP
+200V
100K
.01
C1 500 mmf.
R1 220K
R2 220K
C2 .0047
INPUT JACK #1
INPUT JACK #2
47K
1/2V1
1M VR1
Tone Control
2.2K
VOLTAGE AMP
+250V
150K
68K
500K VR3
.033
.02
510 K
1.5M
4.7K
TREMOLO V4
Tremolo Control
Volume Control
1M VR2
330K
150 Ω 1W
OUTPUT V2
SPEAKER 8 Ω
GIBSON SKYLARK/TREMOLO AMPLIFIER
Dwg. No. 1
On/Off Polarity Switch
HEATERS
6.3 VAC
+165V
+240V
COMPONENT LOCATION DIAGRAM
VOLTAGE CHART
PIN V1 V2 V3
1 +139V - 220 VAC
2 0 0 -
3 +1.9V +7V Heater
4 Heater Heater Heater
5 Heater Heater -
6 +135V - 220 VAC
7 0 +250V +260V
8 +1.9V - -
9 Heater +250V -
NOTES:
1. All resistors 1/2 watt 10% unless otherwise specified.
2. All capacitors are in microfarads unless otherwise specified.
3. All voltages measured to ground with a Simpson 260 VOM.
4. See parts list for component part nos.
VOLTAGE AMP



P A R T S L I S T

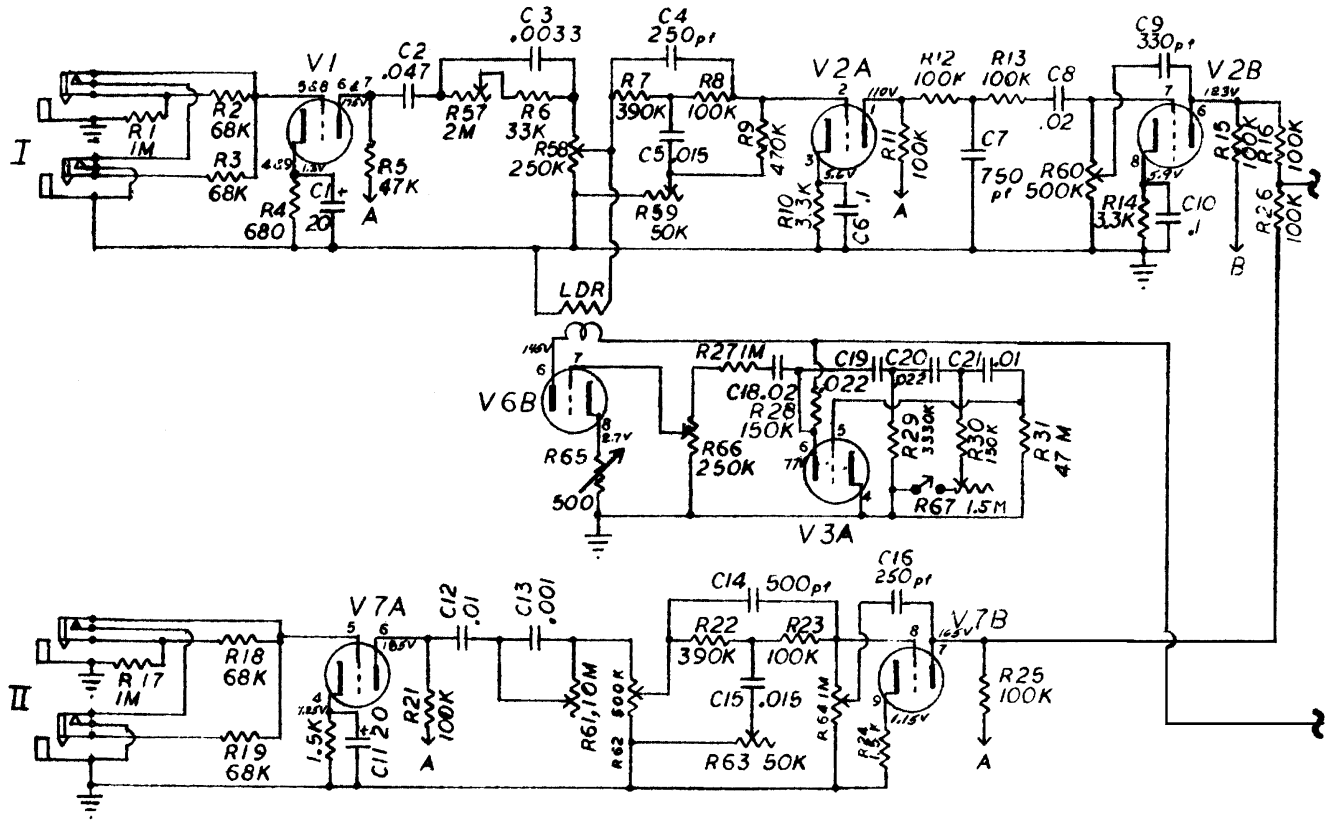
Part	Description	Schematic Reference	Part Number
Transformer	Power.....	T-1.....	954-003622
Transformer	Output.....	T-2.....	955-003623
Choke	.....	L-1.....	956-003624
Diode	Dual Rectifier.....	D1-D2.....	919-012414
Diode	Rectifier.....	D3.....	919-003517
Switch	Polarity.....	SW-1A&B...	960-012430
Speakers	10".....	.....	985-003631
Potentiometer	Volume Control 1 Meg-L.....	.....	925-003525
Potentiometer	Bass Control 2 Meg-L.....	.....	925-003529
Potentiometer	Treble Control 2 Meg-A	.....	925-003559
Capacitor	Filter, 50 Mfd 50V.....	.....	945-003627
Capacitor	Filter, 20-20-20-475V.....	C1 AB&C...	945-003626
Capacitor	Filter, 20-20-20-475V.....	C2 AB&C...	945-003626

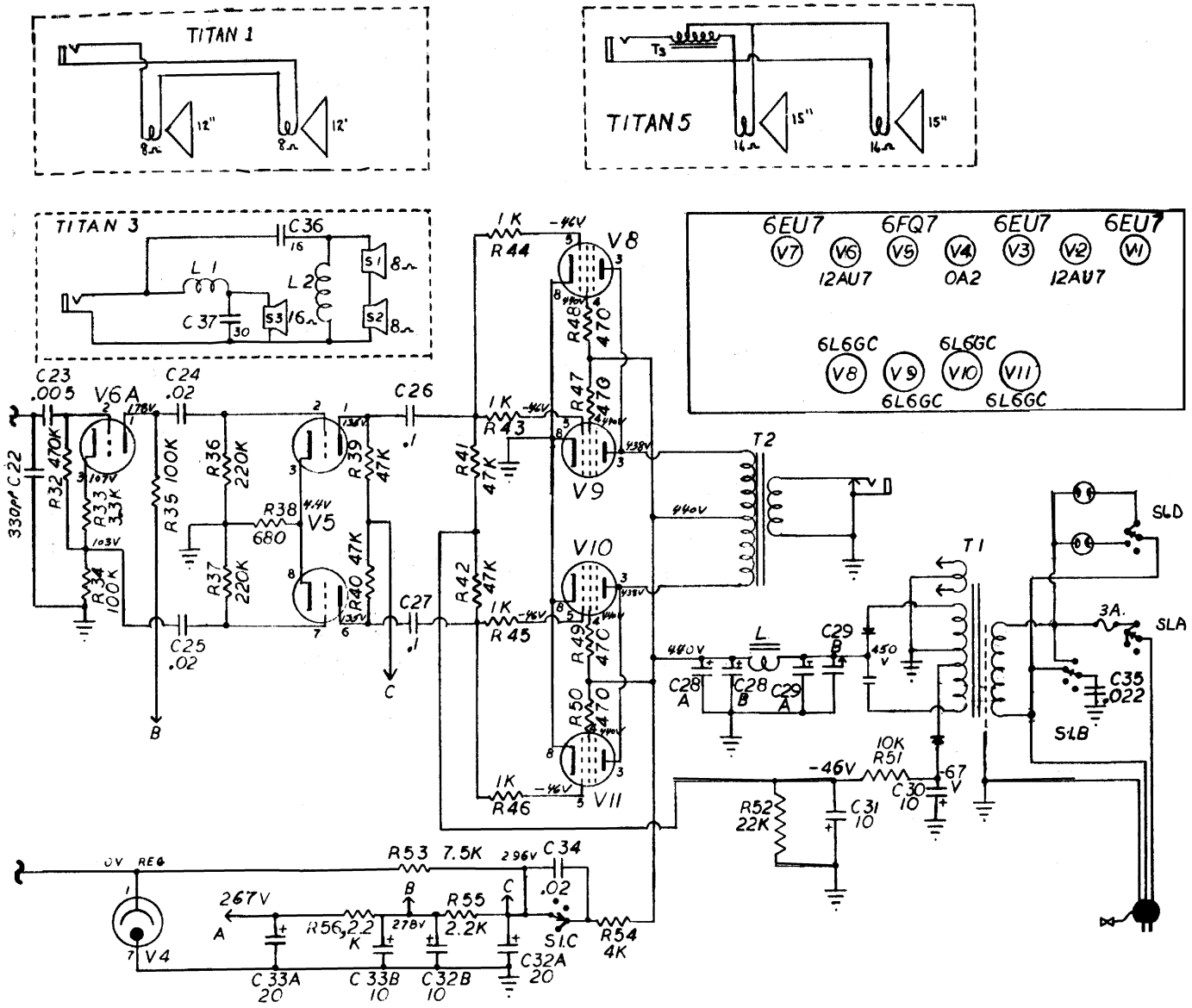
T1	Power Transformer	TF-135P	R63,R59	50K Audio Taper (mid-control) control	C-BA-811-3703
T2	Output Transformer	TF-531-0	R61	10 meg reversed audio (bass) control	C-BA-811-3710
T3	Auto Transformer - 8 ohm, 16 ohm	TF-130A	R58,R66	250K audio taper (volume & depth) control	C-BA-811-3701
L3	Filter Choke	TF-302IH	R57	2 meg reversed audio (bass) control	C-BA-811-3751
			R62,R60	500K audio taper (volume & treble) control	C-BA-811-3707
L1,L2	Inductances 3.7 mh		R64	1 meg audio taper (treble) control	C-BA-811-3709
			R67	1.5 meg reversed audio (frequency) control	C-BA-811-3711
S1	Switch - off, standby, on-on	SW-78	R65	500 ohm wire wound control	C-B-23391
LDR-1	Light Dependent Resistor Lamp Assembly	RE-LDR-430C			
SP2	(1) Speakers, 15" 16 ohm 3-0127				
SP1	(1) Speakers, 10" 16 ohm 3-7646				

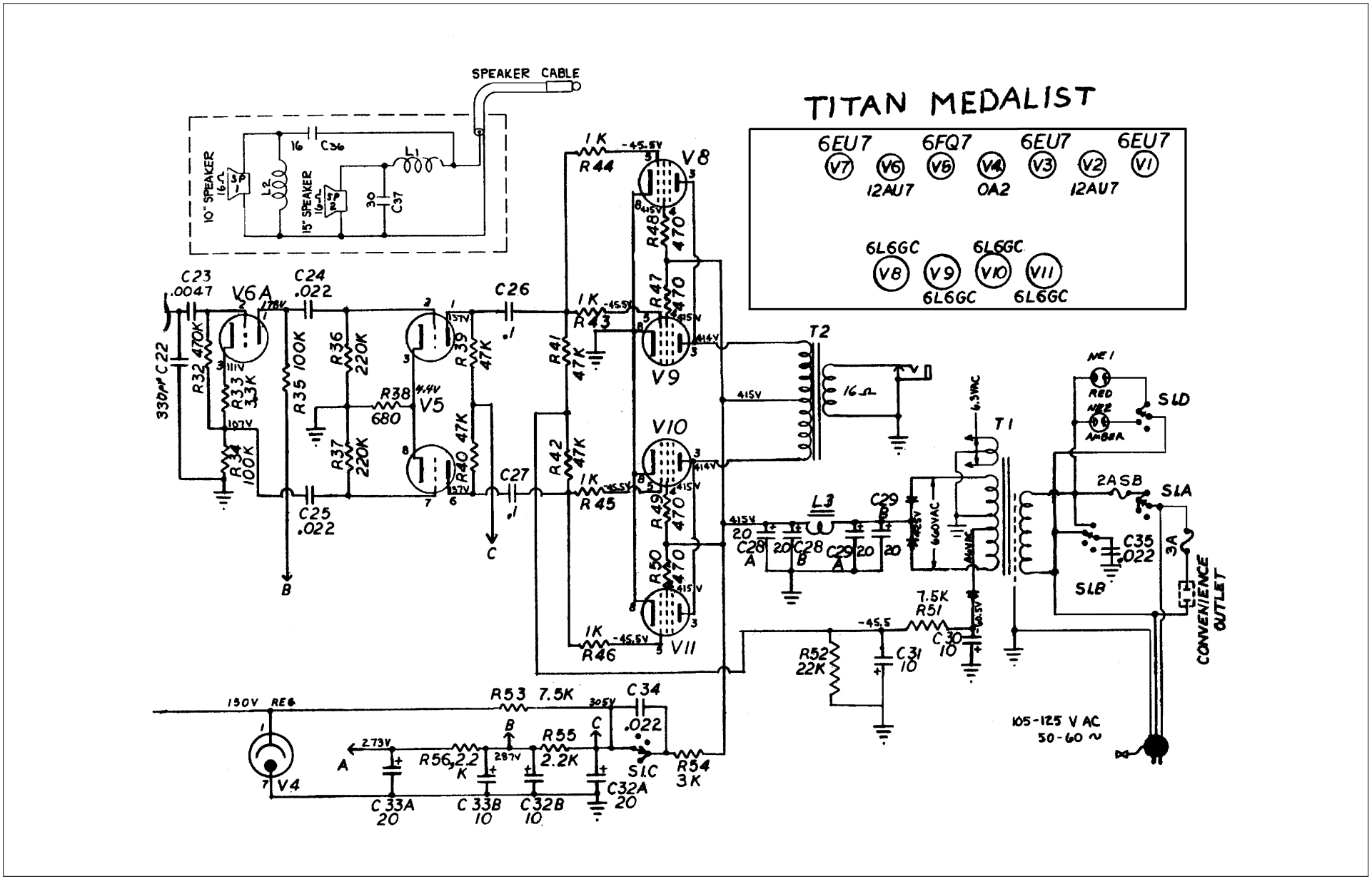


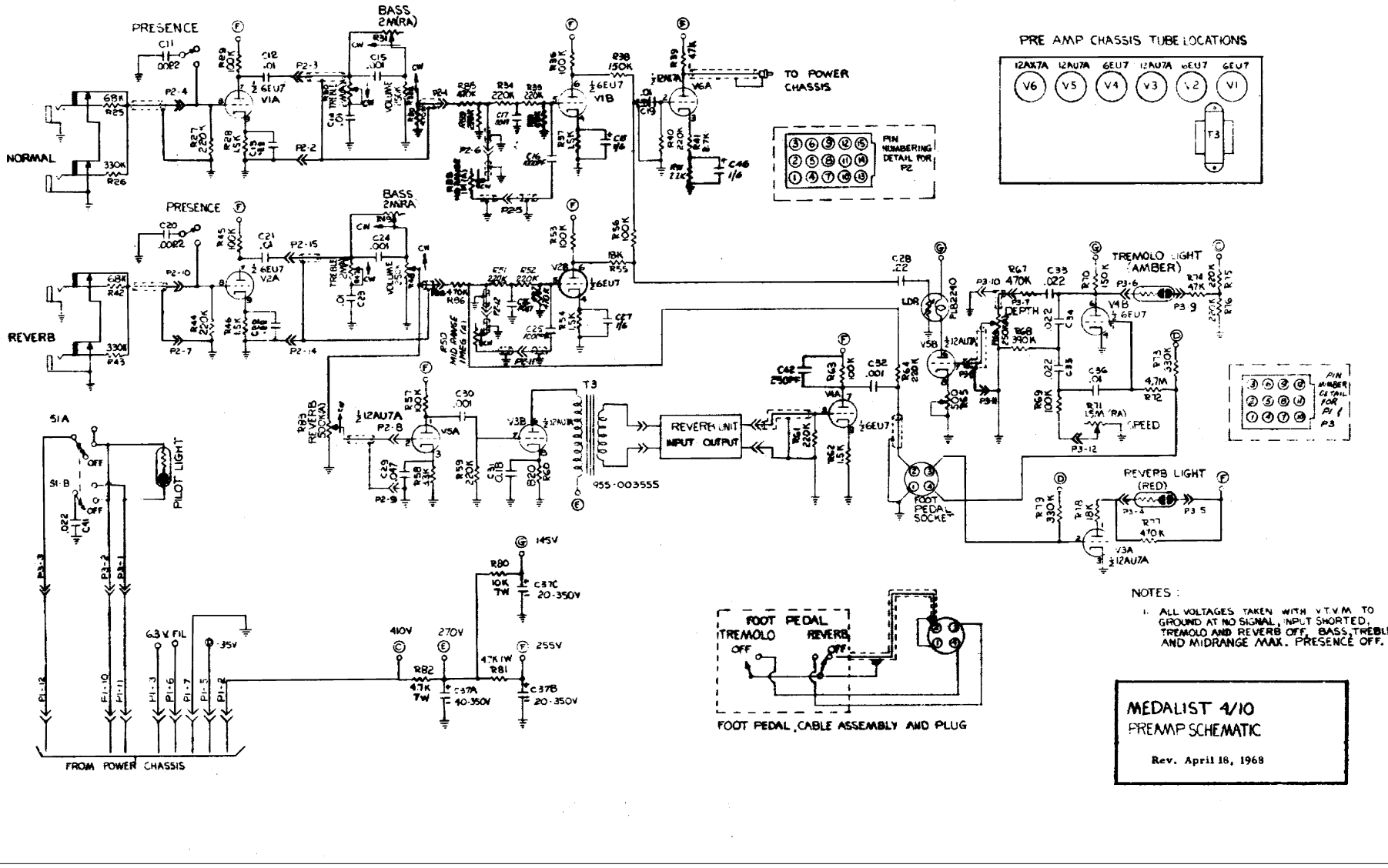
T1	Power Transformer	TF-135P	R63,R59	50K Audio Taper (mid-control) control	C-BA-811-3703
T2	Output Transformer	TF-531-0	R61	10 meg reversed audio (bass) control	C-BA-811-3710
T3	Auto Transformer - 8 ohm, 16 ohm	TF-130A	R58,R66	250K audio taper (volume & depth) control	C-BA-811-3701
L1	Filter Choke	TF-3021H	R57	2 meg reversed audio (bass) control	C-BA-811-3751
			R62,R60	500K audio taper (volume & treble) control	C-BA-811-3707
L1,L2	Inductances 3.7 mh		R64	1 meg audio taper (treble) control	C-BA-811-3709
			R67	1.5 meg reversed audio (frequency) control	C-BA-811-3711
S1	Switch - off, standby, on-on	SW-78	R65	500 ohm wire wound control	C-B-23391
LDR-1	Light Dependent Resistor Lamp Assembly	RE-LDR-430G			

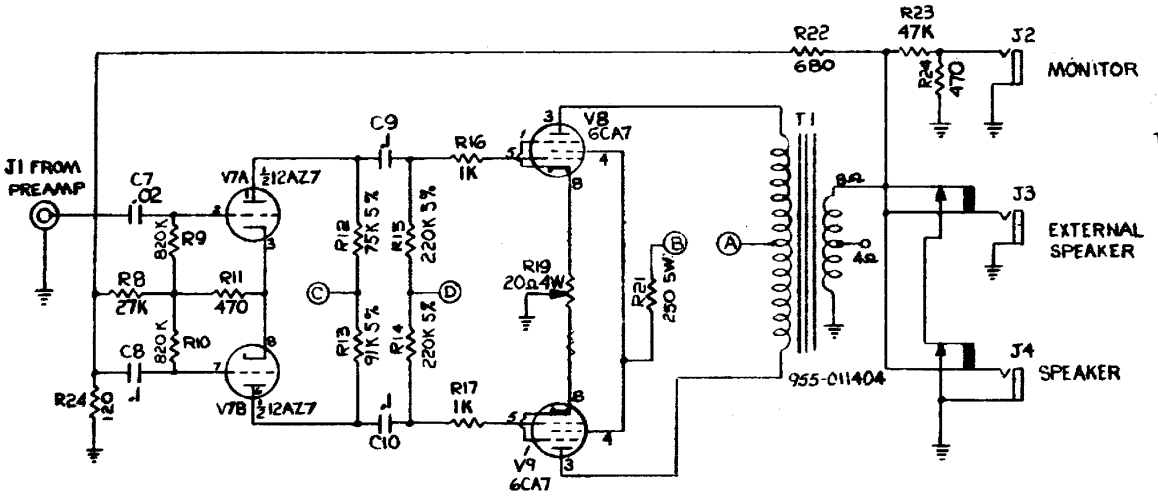
(2)	Speakers, 10" 8 ohm for Titan 3	S-12197
(1)	Speaker, 15" 16 ohm for Titan 3	S-0128
(2)	Speakers, 15" 16 ohm for Titan 5	D-130F
(2)	Speakers, 12" 8 ohm for Titan 1	S-7414-2

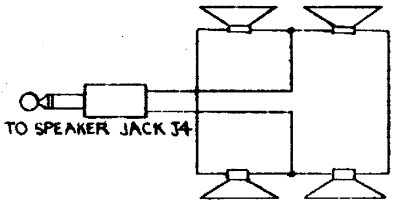


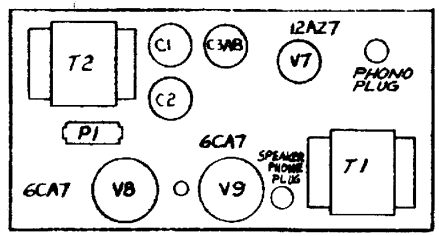

TITAN 1
12"
12"
8Ω
8Ω
TITAN 5
T3
15"
15"
16Ω
16Ω
TITAN 3
C36
16
L1
L2
C37
30
S1
S2
S3
8Ω
16Ω
8Ω
6EU7
6FQ7
6EU7
6EU7
V7
V6
V5
V4
V3
V2
V1
12AU7
0A2
12AU7
6L6GC
6L6GC
V8
V9
V10
V11
6L6GC
6L6GC
C23
.005
V6A
C24
.02
C26
.1
330Ω
C22
R32 470K
R33 3.3K
R34 100K
R35 100K
R36 220K
R37 220K
R38 680
V5
R39 47K
R40 47K
C25
.02
C27
.1
C
B
1K
R44
-46V
V8
R48 470
R47 470
1K
R43
V9
R41 47K
R42 47K
V10
1K
R45
R49 470
R50 470
1K
R46
V11
T2
440V
T1
SLD
3A.
SLA
SLB
C35
.022
L
C29
B
450
V
C28
A
C28
B
C29
A
480V
10K
R51
-46V
-67
V
C30
10
R52
22K
C31
10
0V REG
R53 7.5K
296V
C34
.02
267V
A
B
C
R55
2.2K
R56, 2.2
K
278V
S1C
R54
4K
V4
C33A
20
C33B
10
C32B
10
C32A
20


TITAN MEDALIST
6EU7 6FQ7 6EU7 6EU7
V7 V6 V5 V4 V3 V2 V1
12AU7 0A2 12AU7
6L6GC 6L6GC
V8 V9 V10 V11
6L6GC 6L6GC
SPEAKER CABLE
10" SPEAKER 16Ω
15" SPEAKER 16Ω
C36 L1 L2 C37
C23 .0047
C24 .022
C25 .022
C26 .1
C27 .1
V6A V5
R32 470K
R33 33K
R34 100K
R35 100K
R36 220K
R37 220K
R38 680
R39 47K
R40 47K
R41 47K
R42 47K
R43 1K
R44 1K
R45 1K
R46 1K
V8 V9 V10 V11
R47 470
R48 470
R49 470
R50 470
T2 16Ω
T1
L3
C28 20 20
C29 20 20
R51 7.5K
R52 22K
C30 10
C31 10
NE1 RED NEE AMBER
SLD
2ASB
SLA
SLB
C35 .022
3A
CONVENIENCE OUTLET
105-125 V AC 50-60 ~
150V REG
V4
R53 7.5K
C34 .022
R54 3K
R55 2.2K
R56 2.2K
C32A 20
C32B 10
C33B 10
C33A 20
SIC

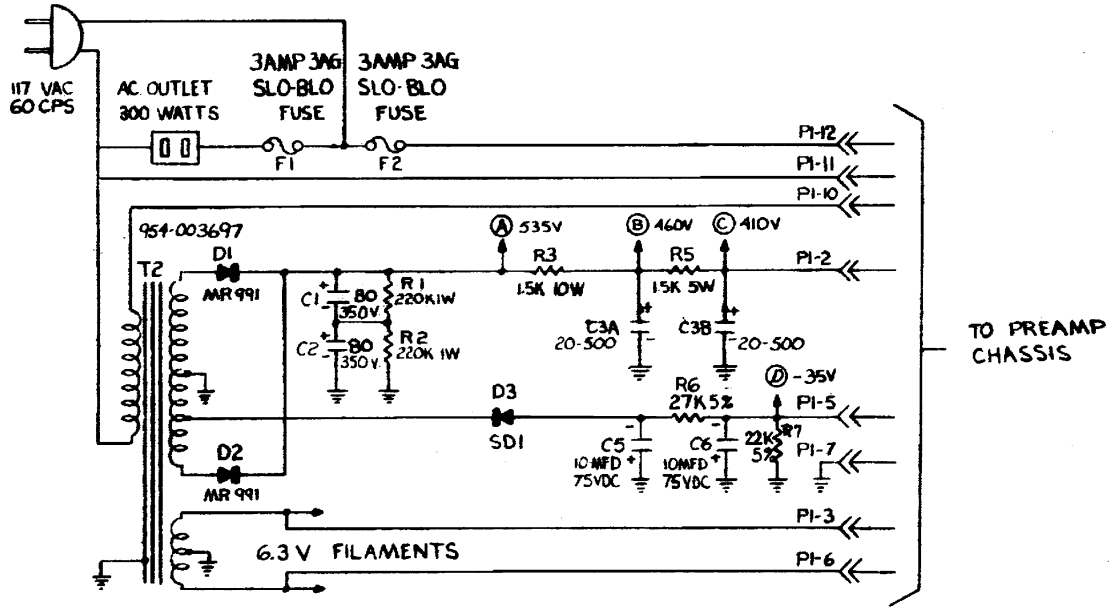

PRESENCE
BASS 2MRA)
NORMAL
REVERB
TO POWER CHASSIS
PRE AMP CHASSIS TUBE LOCATIONS
12AX7A 12AU7A 6EU7 12AU7A 6EU7 6EU7
V6 V5 V4 V3 V2 V1
T3
PIN NUMBERING DETAIL FOR P2
TREMOLO LIGHT (AMBER)
REVERB LIGHT (RED)
DEPTH
SPEED
REVERB UNIT INPUT OUTPUT
955-003555
FOOT PEDAL SOCKET
PILOT LIGHT
S1A
S1B
OFF
145V
255V
410V
270V
35V
6.3 V FIL
FROM POWER CHASSIS
FOOT PEDAL
TREMOLO
REVERB
FOOT PEDAL, CABLE ASSEMBLY AND PLUG
NOTES :
1. ALL VOLTAGES TAKEN WITH V.T.V.M. TO GROUND AT NO SIGNAL, INPUT SHORTED, TREMOLO AND REVERB OFF, BASS, TREBLE, AND MIDRANGE MAX. PRESENCE OFF.
MEDALIST 4/10
PREAMP SCHEMATIC
Rev. April 18, 1968







POWER CHASSIS TUBE LOCATIONS



NOTES :

1. ALL VOLTAGES TAKEN WITH V.T.V.M. TO GROUND AT NO SIGNAL, INPUT SHORTED, TREMOLO AND REVERB OFF, BASS, TREBLE, AND MIDRANGE MAX. PRESENCE OFF.

MEDALIST 4/10 POWER CHASSIS SCHEMATIC

Rev. April 18, 1968