SECOND PRINTING
1968

T E C H N I C A L D A T A

FOURTH EDITION

by Eugene B. Andre

This is the fourth edition in the series of volumes, entitled "TECHNICAL DATA. " This volume covers 1966 and 1967 amplifier models. Combined with previous volumes, this manual provides up-to-date coverage of all amplifier models manufactured by The Ampeg Co., Inc.

The technical information is uniformly presented for quick reference and application. As in previous volumes, the data presented continues to provide the service technician with complete servicing information.

TRADE NAME	Model No. SB-12
MANUFACTURER	AMPEG Co. Industrial Park, Linden, N.J.
TYPE SET	Bass amplifier /one channel/
TUBES	5AR4 6L6GC 6L6GC 12AX7 12AX7
POWER SUPPLY	117v AC 50/60 cycles Rating 2A USA
POWER SUPPLY	240v AC 50/60 cycles Rating 1A EXPORT
POWER OUTPUT	22 Watts

TRANSFORMER /Audio output/

Part No.	Impedance		D.C. Resistance	
	Pri.	Sec.	Pri.	Sec.
OT-215	6.5k	8 ohms 16 ohms	290 ohms	1 ohm 1.4 ohms

TRANSFORMER /Power/ USA

Part No.	Rating			
	Pri.	Sec. 1	Sec. 2	Sec. 3
PT-114	117v AC 50/60 cyc.	740v AC C.T. 160 ma DC	6.3v AC C.T. 3.5 Amp.	5v AC 3 Amp.

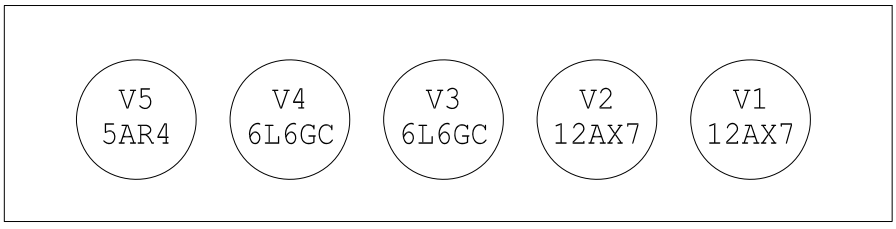
TRANSFORMER /Power/ EXPORT

Part No.	Rating			
	Pri.	Sec. 1	Sec. 2	Sec. 3
PT-114-240	240v AC 50/60 cyc.	740v AC C.T. 160 ma DC	6.3v AC C.T. 3.5 Amp.	5v AC 3 Amp.

SPEAKER

Part No.	Rating		
	Size	Field	V.C. Impedance
C-12-N or C.T.S.	12"	P.M.	8 ohms

TUBE LOCATION



D.C. VOLTAGE READING /no signal inserted/

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	12AX7	180v	0	2.v	Fil	Fil	175v	0	1.5v	Fil
V2	12AX7	245v	0	2.v	Fil.	Fil.	250v	0	2.1v	Fil
V3	6L6	NC	Fil	475v	470v	-48v	0	Fil	0	
V4	6L6	NC	Fil	475v	470v	-48v	0	Fil	0	
V5	5AR4		475v						475v	

* Factory adjusted to give 80ma of plate current for both V2 & V3 App. -19v

Nominal tolerance on component values makes possible a variation of ± 5% in voltage readings.

RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	12AX7	X450k	210k	5.6k	Fil	Fil	X300k	**	2.2k	Fil
V2	12AX7	X130k	470k	800Ω	Fil.	Fil.	X130k	*	1k	Fil
V3	6L6	NC	Fil	X145Ω	X 1k	350k	0	Fil	0	
V4	6L6	NC	Fil	X145Ω	X 1k	350k	0	Fil	0	
V5	5AR4	X260k	X 0	1.5k	52Ω	Fil.	52Ω	**	X 0	Fil.

* 140k to 340k depending on the position of Bass control

** 0Ω to 1mg depending on the position of Volume control

Measured values are from socket pin to common negative, except those marked X are measured from pin 8 of V5-5AR4.

Nominal tolerance on component values makes possible a variation of ± 10% in resistance readings.

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TUBES

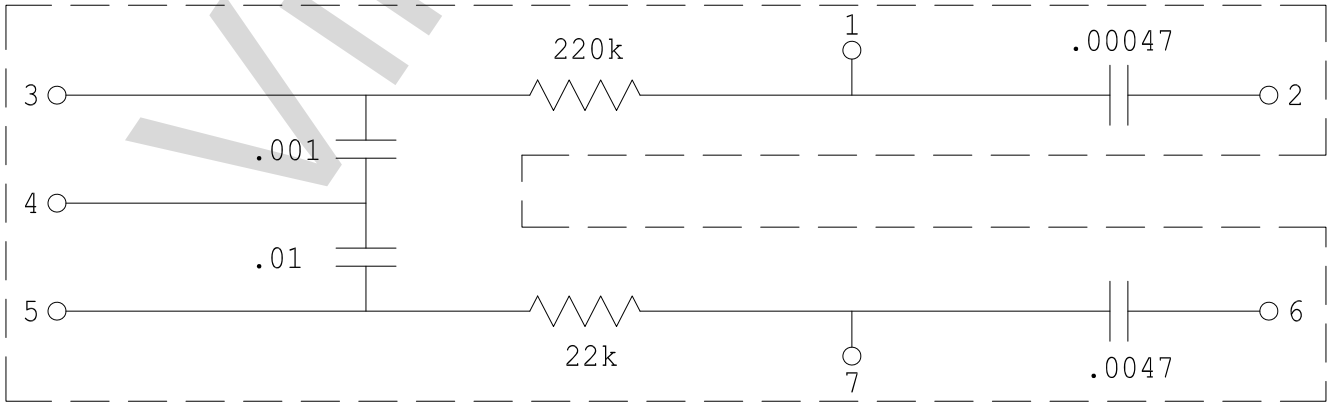
Item	Tube	Use
V1	5AR4	Rectifier
V2	6L6	Audio Output
V3	6L6	Audio Output
V4	12AX7	1/2 Voltage amplifier, 1/2 Phase inverter
V5	12AX7	Pre-amplifier

CONTROLS

Item	Resistance	Type	Watt	Notes
Volume	1 mg	Log.	1/2	
Bass	1 mg	Lin.	1/2	
Treble	1 mg	Lin.	1/2	
Bias	15k	Lin.	1/2	
Hum	100Ω	Lin	2	

All controls ± 10%

PRINTED CKT. /Tone control/



MISCELLANEOUS

Item	Notes
Instrument jack	Input jack, open ckt.
Bass jack	Input jack, closed ckt.
Fuse	AGC 3 Amp. 250v
On-Off	Power switch SPST 117v 6 Amp.
P.L.	Pilot light 6.3v AC # 1847
Ext. speaker	Single ckt, make-break jack
10D6	Silicon diode 600 PIV 1 Amp.
Outlet	AC 125v 15amp.

NOTE:

The output leads of the amplifier are connected to the lag bolts on the ends of the wooden tray under the chassis. When the cabinet top is latched, the lag bolts make electrical contact to the claw bolts on each side of the cabinet, which are connected to the speaker voice coil terminals.

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RESISTORS ARE ±10% 1/2 WATT UNLESS SPECIFIED.

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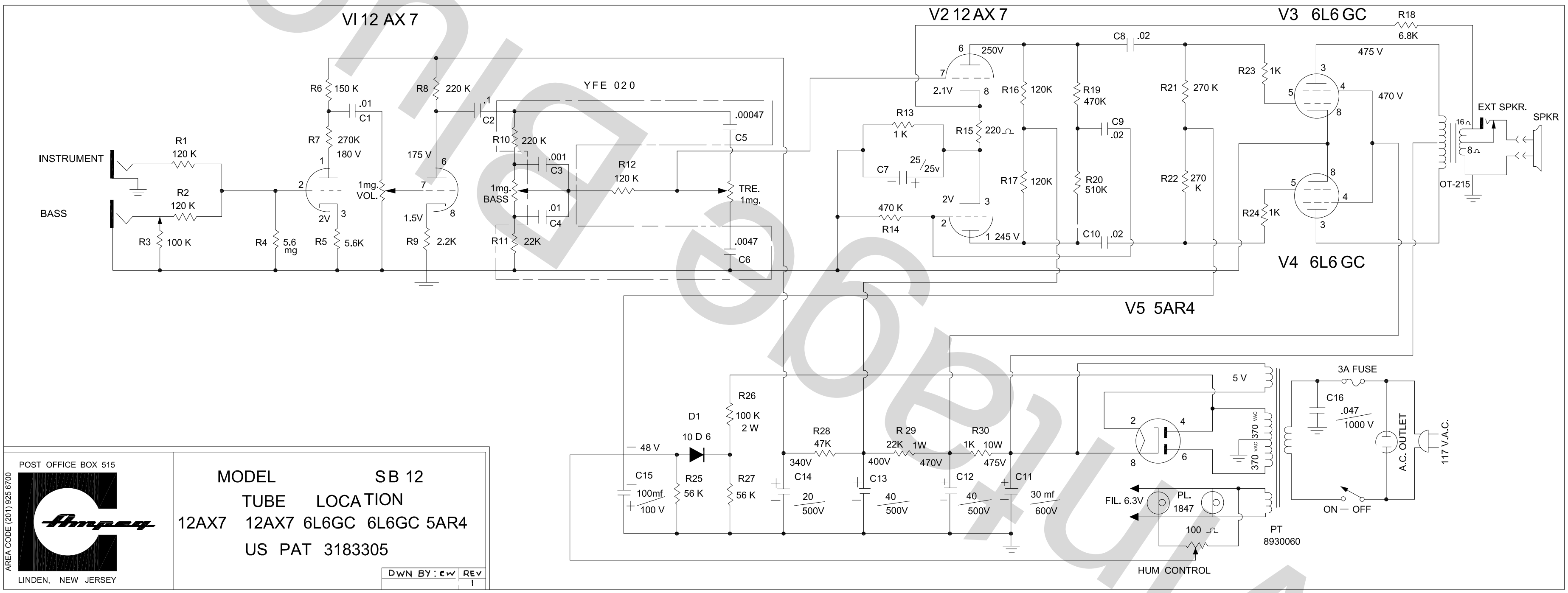
CAPACITORS, - PAPER AND CERAMIC IN µFD 400v UNLESS SPECIFIED.


POST OFFICE BOX 515
AREA CODE (201) 925 6700
LINDEN, NEW JERSEY
MODEL SB 12
TUBE LOCATION
12AX7 12AX7 6L6GC 6L6GC 5AR4
US PAT 3183305
DWN BY: cw
REV
1
VI 12 AX 7
V2 12 AX 7
V3 6L6 GC
V4 6L6 GC
V5 5AR4
YFE 020
INSTRUMENT
BASS
R1 120 K
R2 120 K
R3 100 K
R4 5.6 mg
R5 5.6K
R6 150 K
R7 270K
180 V
C1 .01
1mg. VOL.
R8 220 K
175 V
1.5V
R9 2.2K
C2 .1
R10 220 K
C3 .001
1mg. BASS
C4 .01
R11 22K
R12 120 K
C5 .00047
TRE. 1mg.
C6 .0047
2V
2.1V
250V
R13 1 K
C7 25/25v
R15 220 Ω
470 K
R14
245 V
R16 120K
R17 120K
R19 470K
R20 510K
C9 .02
C10 .02
C8 .02
R21 270 K
R22 270 K
R23 1K
R24 1K
475 V
470 V
R18 6.8K
EXT SPKR.
SPKR
16 Ω
8 Ω
OT-215
D1
10 D 6
- 48 V
C15 100mf 100 V
R25 56 K
R26 100 K 2 W
R27 56 K
R28 47K
340V
C14 20 500V
R 29 22K 1W
400V
470V
C13 40 500V
R30 1K 10W
475V
C12 40 500V
C11 30 mf 600V
5 V
370 VAC
370 VAC
FIL. 6.3V
PL. 1847
100 Ω
HUM CONTROL
PT 8930060
3A FUSE
C16 .047 1000 V
A.C. OUTLET
117 V.A.C.
ON — OFF