

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. B-18-N	PORTAFLEX
MANUFACTURER	The AMPEG Co. Industrial Park, Linden, N.J.	
TYPE SET	Bass amplifier /two channels/	
TUBES	6SL7 6SL7 7199 7027A 7027A	
POWER SUPPLY	117v A.C. 50/60 cycles. Rating 3 Amp. USA	
POWER SUPPLY	240v A.C. 50/60 cycles. Rating 1.5Amp.EXPORT	
POWER OUTPUT	50 Watts	

TRANSFORMER /Audio output/

Part No.	Impedance		D.C. Resistance	
	Pri.	Sec.	Pri.	Sec.
OT-471	4.3k	8 ohms	300 ohms	.4 ohm
		16 ohms		.7 ohm

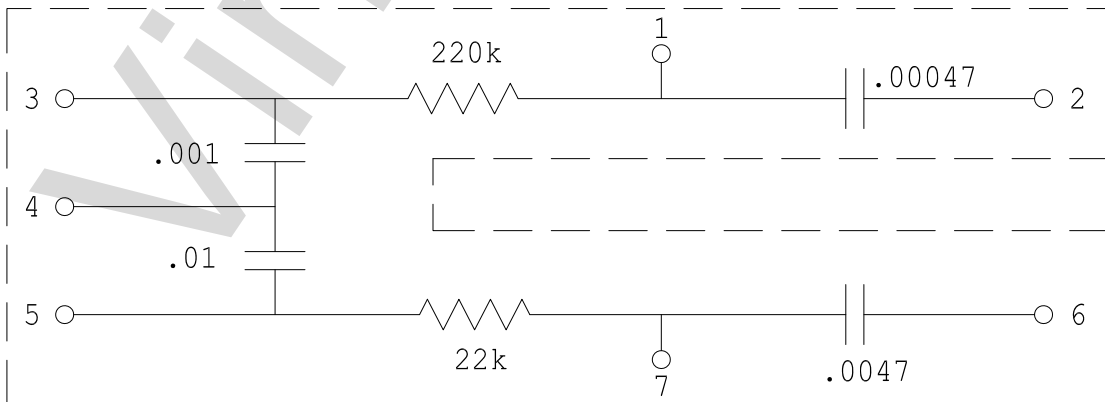
TRANSFORMER /Power/ USA

Part No.	Rating			
	Pri.	Sec.1	Sec.2	Sec.3
PT-109 or PT-12-XA	117v AC 50/60 cycles	800v AC C.T. 200ma DC	5v AC 3 Amp.	6.3v AC 5 Amp.

TRANSFORMER /Power/ EXPORT

Part No.	Rating			
	Pri.	Sec.1	Sec.2	Sec.3
PT-109-240 or PT-12-XA-240	240v AC 50/60 cycles	800v AC C.T. 200ma DC	5v AC 3 Amp.	6.3v AC 5 Amp.

PRINTED CKT. /Tone control/



D.C. VOLTAGE READINGS /no signal inserted/

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

Item	Tube	Pin								
		1	2	3	4	5	6	7	8	9
V1	6SL7	0v	185v	2v	0v	175v	2.4v	Fil.	Fil.	
V2	6SL7	0v	185v	2v	0v	175v	2.4v	Fil.	Fil.	
V3	7199	360v	105v	60v	Fil.	Fil.	1.8v	0v	100v	65v
V4	7027A	n.c.	Fil.	505v	500v	-55v	-55v	Fil.	0v	
V5	7027A	n.c.	Fil.	505v	500v	-55v	-55v	Fil.	0v	
V6	5AR4		505v						505v	

RESISTANCE READINGS

Item	Tube	Pin								
		1	2	3	4	5	6	7	8	9
V1	6SL7	*	$\times 243k$	2.2k	220k	$\times 493k$	5.6k	Fil.	Fil.	
V2	6SL7	**	$\times 243k$	2.2k	220k	$\times 493k$	5.6k	Fil.	Fil.	
V3	7199	$\times 58k$	$\times 293k$	150k	Fil.	Fil.	#	***	49k	3.3mg
V4	7027A	1k	Fil.	$\times 75\Omega$	$\times 1k$	148k	148k	Fil.	0 Ω	
V5	7027A	1k	Fil.	$\times 75\Omega$	$\times 1k$	148k	148k	Fil.	0 Ω	
V6	5AR4		$\times 0\Omega$		##		##		$\times 0\Omega$	

- * 0 Ω to 1mg depending on the position of Volume control (ch. one)
- ** 0 Ω to 1mg depending on the position of Volume control (ch. two)
- *** 220k with Bass controls c.c.w. position
330k with Bass controls c.w. position
- # 1.5k with speaker cable connected to the cabinet
0 Ω with speaker cable disconnected from cabinet
- ## 45 ohms with Standby switch at "ON" position
150k with Standby switch at "OFF" position

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

Measured values are from socket pin to common negative, except those marked X are measured from pin 8 of V6-5AR4

TUBES

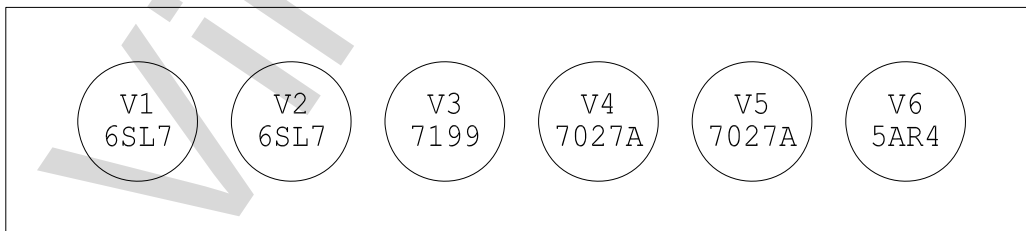
Item	Tube	USE
V1	6SL7	Voltage amplifier /channel one/
V2	6SL7	Voltage amplifier /channel two/
V3	7199	Voltage amplifier-Phase Inverter
V4	7027-A	Power output
V5	7027-A	Power output
V6	5AR4	Rectifier

CONTROLS

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

All controls \pm 10%

TUBE LOCATION



RESISTORS ARE \pm 10% 1/2 WATT UNLESS SPECIFIED

CAPACITORS, - PAPER AND CERAMIC IN UFD 400v UNLESS SPECIFIED

MISCELLANEOUS

Item	Notes
Bass jack	Input jack, closed ckt /channel one/
Guitar jack	Input jack, open ckt /channel one/
Inst. jack	Input jack, closed ckt /channel two/
Ext. amp. jack	External amplifier jack, open ckt
Ext. speaker	Single ckt, make-break jack
Fuse	AGC 3 Amp. 250v
P.L.	Pilot light 6.3v AC # 1847
On-Off sw.	Power switch SPST 117v 6 Amp.
Standby sw.	Standby switch SPST 117v 6 Amp.
Ground sw.	Polarity switch SPDT 117v 6 Amp.
10D6	Silicon diode 600 PIV 1 Amp.

NOTE: OT-470 transformer color code:

Primary:

Blue (to V4 plate)
 Blue/white (to V5 plate)
 Red C.T.

Secondary:

Yellow - 16 ohms
 Green - 8 ohms
 Black - ground

