

170079 POWER AMP PCB

* TRANSFORMER LIMITED ON HEAT-SINK

MODELS 220^S & 230^S

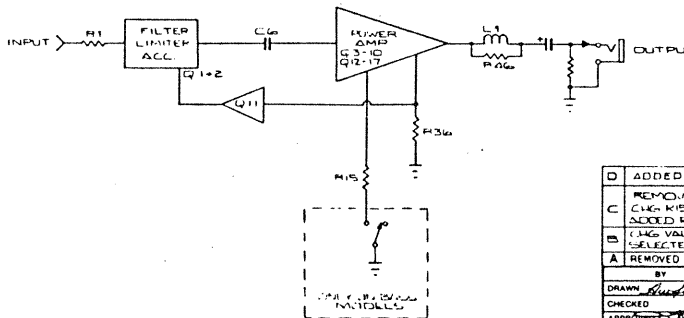
NOTES UNLESS NOTED OTHERWISE

- 1 RESISTORS ARE IN OHMS 1/2W 5%
- 2 CAPACITORS ARE IN MFD
- 3 DIODES ARE IN 1N4 480005
- 4 □ = DC VOLTS FROM GROUND USING VTVM
NO SIGNAL APPLIED
- 5 Δ = AC VOLTS FROM GROUND USING ACVTVM 1K Hz SIGNAL
- 6 LAST COMPONENT DESIGNATIONS
R61 - C9 - Q17 - D8 - L1
R62 ONLY 180051
- 7 REF ASSY PIN 030050
PCB ONLY 180051
- 8 BIAS ADJUSTMENT - R10 SELECTED FOR APPROX.
25-30 WATTS AS POWER AT 120 VOLTS LINE
- 9 SYMMETRICAL CLIPPING - R10 SELECTED FOR SYMMETRICAL
CLIPPING 50.5 DB @ 2 OHM LOAD 1KHz
@ 120 VOLTS LINE
- 10 AGC - R45 SELECTED FOR NO AGC ACTION BELOW
18V @ 2 OHMS LOAD, AGC ACTION BY 19VOLTS
- 11 NONE
- 12 COMPONENT NOT USED C3 R24,25,26,30,31,32

Q'S	ACOUSTIC PIN	MFG PIN
1-2	480033 P FET	2N4260
3,4-5	480032 PNP	2N4248
5	480003 NPN	KA40408
6,7-11	480023 NPN	1N2734
8	480056 NPN	RA2N647A
10	480057 PNP	KA2N647E
12-17	480058 NPN	SPECIAL

SELECTED PARTS

COMP #	MIN VALUE	MAX VALUE	TYP VALUE
R18	68K	220K	150K
R19	56C	8.0C	68C
R45	68K	NONE	10.1K



D	ADDED R50 4.3I CHANGE NOTE G	8-20-77
C	REMOVED R24,25,26,30,31 & 32 NOTE 11 CHG R15 27K 33C 33 NOTE 11	5-15-77
B	ADDED R41 4M 40 1 18K 15 NOTE 11 CHG VALUES OF R18, R25, R32 (CUG BLOCK DIAGRAM) 42 SELECTED PARTS BLOCK, R18, R20, R45 MARKED NOTES B, C, D, 11	8-23-77
A	REMOVED DIODES D1 AND D2	7-16-77
BY DATE		
DRAWN <i>Shelton</i> 5-31-77		
CHECKED		
APPROVED <i>[Signature]</i> 4/1/77		
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MODEL 220/230 SCHEMATIC PWR AMP PCB		
REV	CODE	PART NO.
D	4	1598
SCALE	DO NOT SCALE THIS PRINT	