

CONCERT P.A.  
Amplifier Parts List

INTERGRATED CIRCUITS

IC104,101 U6A7739393 22-5000

DIODES, TRANSISTORS

Q101,202 2N3055 Beta 60-70 22-3055-1  
 Q1,2,3,4,5 2N3055 Matched outputs 22-3055-2  
 Q202 BC107B 22-0107  
 Q203 BC141C 22-0141  
 CR201,202 15 Volt zener 22-0150

RECTIFIERS

CR1 1R50FBL 19-0005  
 CR101,201 1R18DB8A 19-0008

FILTER CAPACITORS

C2,3,211 1000mfd/50 Volt cap 10-2580  
 C4 3450mfd/75 Volt cap 10-3091  
 C172,173 250mfd/25 Volt cap 10-1025

TRANSFORMERS

T-1 Power transformer 28-2601  
 T-2 3-4DT driver transformer 28-4300  
 T-3 Reverb transformer 28-5000

CIRCUIT BREAKER

Circuit breaker 3 amp 52-0450

SWITCHES

SW1,2,3,4,5,6 Reverb and power 24-0085  
 SW7 Polarity 24-0086

CONTROLS

R1,5 100K audio 23-1266  
 R107,109,119,121  
 132,134,147,150  
 164,160,170 25K reverb log tone 23-1249  
 R180 25K log master 23-1219

CONTROL KNOBS

Standard numbered knobs 59-5529

JACKS

J1,2,3,4,5 No.12A shorting 67-0012  
 J6,7,8,9,12,13 Open circuit standard 67-0011  
 J10 In line #13E 67-0014

R174	1k $\frac{1}{2}$ watt 5% carbon film resistor	12-2102
R161,151,136,122		
110	470 ohm $\frac{1}{2}$ watt 5% carbon film resistor	12-1472
R186	220 ohm $\frac{1}{2}$ watt 5% carbon film resistor	12-1222
R162,163,149,148		
131,135,120,108		
106,120,118	5.6K $\frac{1}{2}$ watt 5% carbon film resistor	12-2562
R185	330 ohm 1 watt 10% carbon comp resistor	13-1331
R179	100 ohm 2 watt 10% carbon comp resistor	14-1101
R107,109,119,121		
132,134,147,150		
164,160	25K reverse log potentiometer	23-1252
R170,180	25K audio potentiometer	23-1220
C101,112,120,127		
139,157,165,144		
154,109,150	.1uf 100 Volt Mylar capacitor	10-3521
C102,113,124,138		
149,106,116,130		
142,152	.22uf 100 Volt Mylar capacitor	10-3526
C104,115,126,125		
136,103,114,137		
148,147,160,161	1.6uf 25 Volt Elect capacitor	10-1005
C108,119,128,123		
117,129,131,118		
105,107,140,155		
141,151,143,153	.01uf 100 Volt Mylar capacitor	10-3504
C111,122,133,134		
145	.068uf 100 Volt Mylar capacitor	10-3510
C110,121,132,135		
146,158,169,162	.022uf 100 Volt Mylar capacitor	10-3506
C159	200pf 1000 Volt Disc capacitor	10-9518
C156	.001uf 600 Volt Mylar capacitor	10-8510
C168	.0047uf 1000 Volt Disc capacitor	10-9554
C167	.047uf 100 Volt Mylar capacitor	10-3508
C163,164,166	10uf 25 Volt Elect capacitor	10-1010
C171	1000uf 50 Volt Elect capacitor	10-2580
C170	330uf 63 Volt Elect capacitor	10-2550
C172,173	250uf 25 Volt Elect capacitor	10-1025
CR101,102	diode 15 Volt zener	22-0150
CR103	Bridge rectifier	19-0002
Q101	2N3055 transistor	22-3055
IC101,102,103,104	14 pin op amp	22-5000

R217	22 ohm 5 watt 10% wire wound resistor	15-0221
R207,222,220,211	330 ohm 5 watt 5% wire wound resistor	15-1332
R215,216,218,219	.27 ohm 10 watt 10% wire wound resistor	17-0002
R225	33 ohm 10 watt 10% wire wound resistor	17-0331
C207	.22uf 100 Volt Mylar capacitor	10-3526
C205,206	.047uf 100 Volt Mylar capacitor	10-3508
C201	.47uf 100 Volt Mylar capacitor	10-3550
C203	.0015uf 1000 Volt Disc capacitor	10-9550
C202	250uf 25 Volt Elect capacitor	10-1025
C204	1000uf 50 Volt Elect capacitor	10-2580
CR201	Bridge rectifier	19-0002
Q201	2N3055 transistor	22-3055
Q202	BC107B transistor	22-0107
Q203	BC141C transistor	22-0141

REVERB SPRING TRAY

Gibbs "C" 29-0005

CABINET COMPONENTS

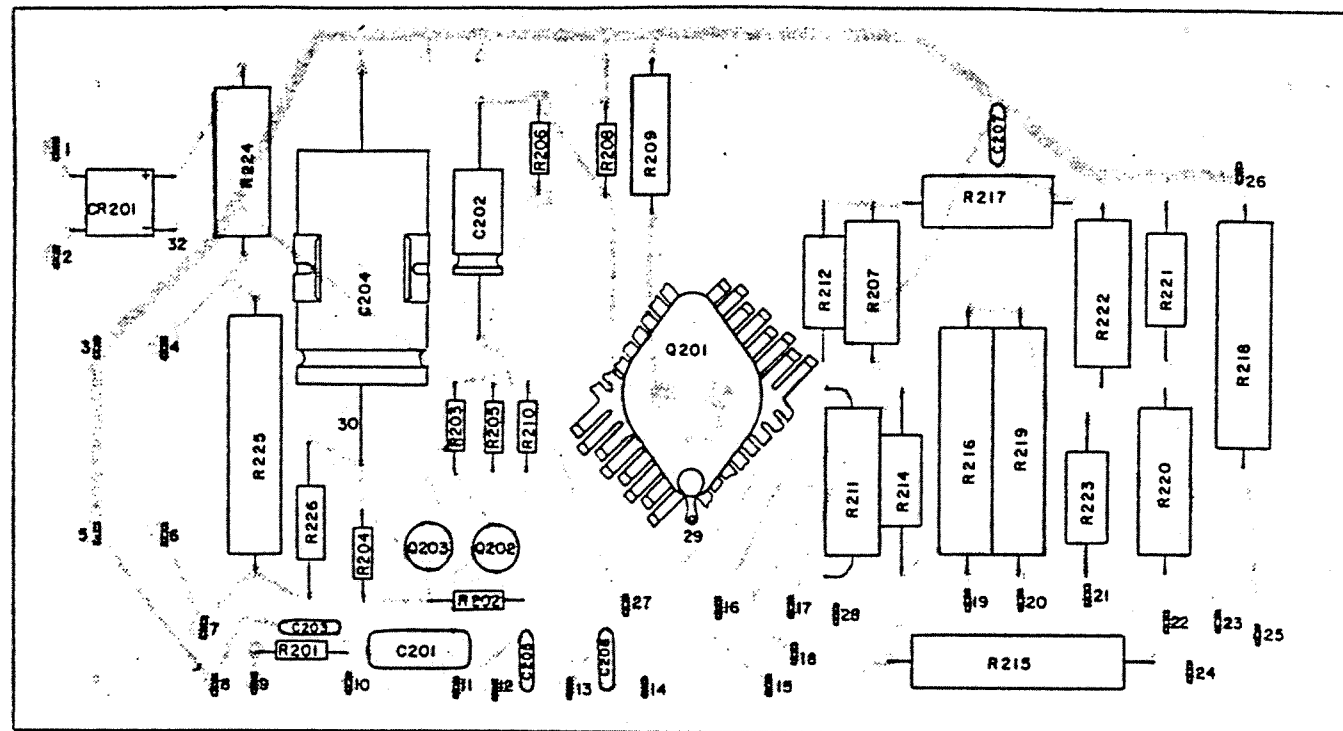
Metal front corner - 3 hole	62-0805
Metal back corner - 2 hole	62-8053
Handle assembly	71-0007
Metal feed thru washers	43-0061
Plastiglide feet	58-1089
SUNN name plate	73-0090

Speaker Hook up  
Series / Parrallel

# Concert P.A.

POWER AMP

32-0020



## PIN NO.

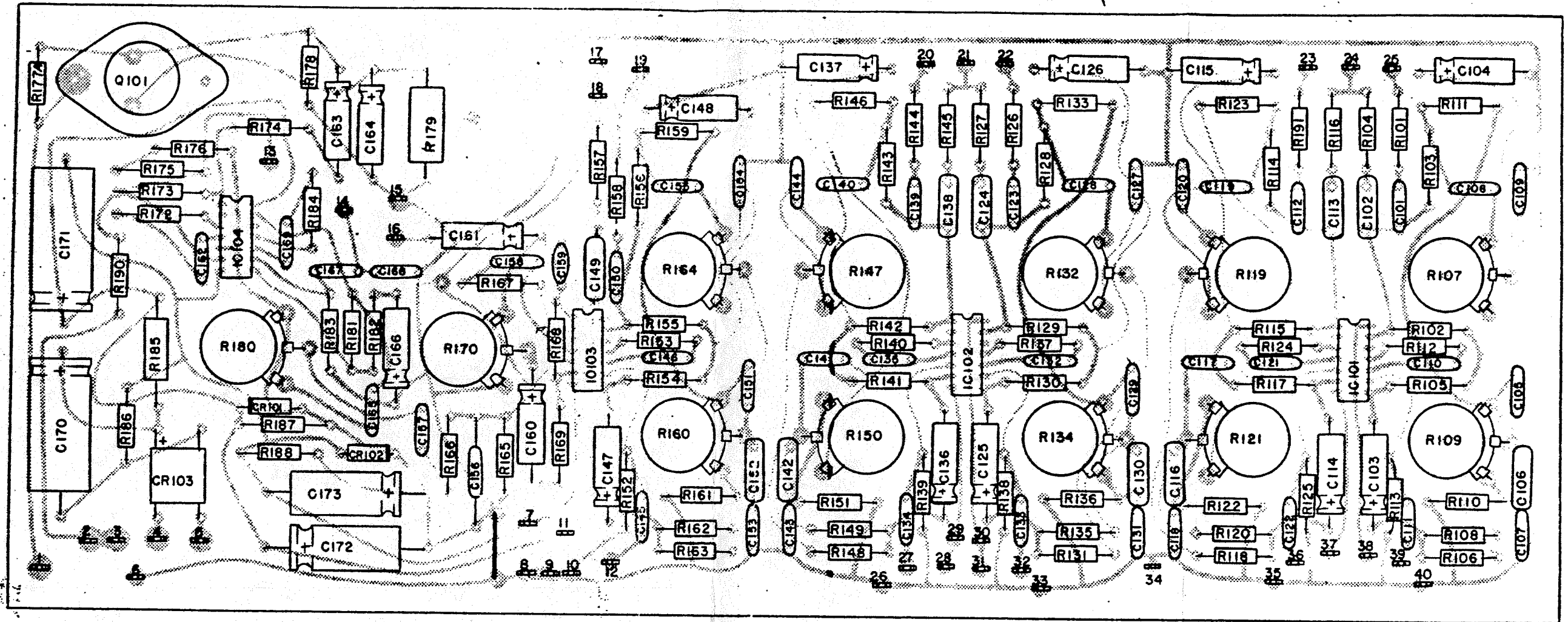
- |                                 |                                    |
|---------------------------------|------------------------------------|
| 1. Power transformer (green)    | 17. Driver transformer (violet)    |
| 2. Power transformer (green)    | 18. Monitor 2 Jack ground          |
| 3. No connection                | 19. Emitter of Q108                |
| 4. 1000uf 75 Volt capacitor     | 20. Emitter of Q107                |
| 5. No connection                | 21. Ground                         |
| 6. 1000uf 75 Volt capacitor     | 22. Driver transformer (red)       |
| 7. Driver transformer (black)   | 23. Driver transformer (green)     |
| 8. No connection                | 24. Emitter of Q105                |
| 9. "In from master" jack        | 25. Emitter of Q106                |
| 10. "In both jack"              | 26. Collector of Q108              |
| 11. Driver transformer (blue)   | 27. Collector of Q107              |
| 12. Driver transformer (white)  | 28. Collector of Q106              |
| 13. Driver transformer (yellow) | 29. Driver transformer (brown)     |
| 14. Driver transformer (orange) | 30. Reverb transformer (blue)      |
| 15. Monitor 2 jack              | 31. Pin 8 on pre amp board 20-0021 |
| 16. Driver transformer (grey)   | 32. 1000uf 75 Volt capacitor       |

## CIRCUIT NO.

## DESCRIPTION

## SUNN PART NO.

R201	22K ½ watt 5% carbon film resistor	12-3222
R202	270K ½ watt 5% carbon film resistor	12-4272
R204	15K ½ watt 5% carbon film resistor	12-3152
R205,206	1K ½ watt 5% carbon film resistor	12-2102
R203	33K ½ watt 5% carbon film resistor	12-3332
R210	68K ½ watt 5% carbon film resistor	12-3682
R208	330 ohm ½ watt 5% carbon film resistor	12-1332
R226	150 ohm 1 watt 10% carbon comp resistor	13-1151
R224	2 ohm 5 watt 10% wire wound resistor	15-0021
R214,212,221,223		
209	10 ohm 2 watt 10% carbon comp resistor	14-0101



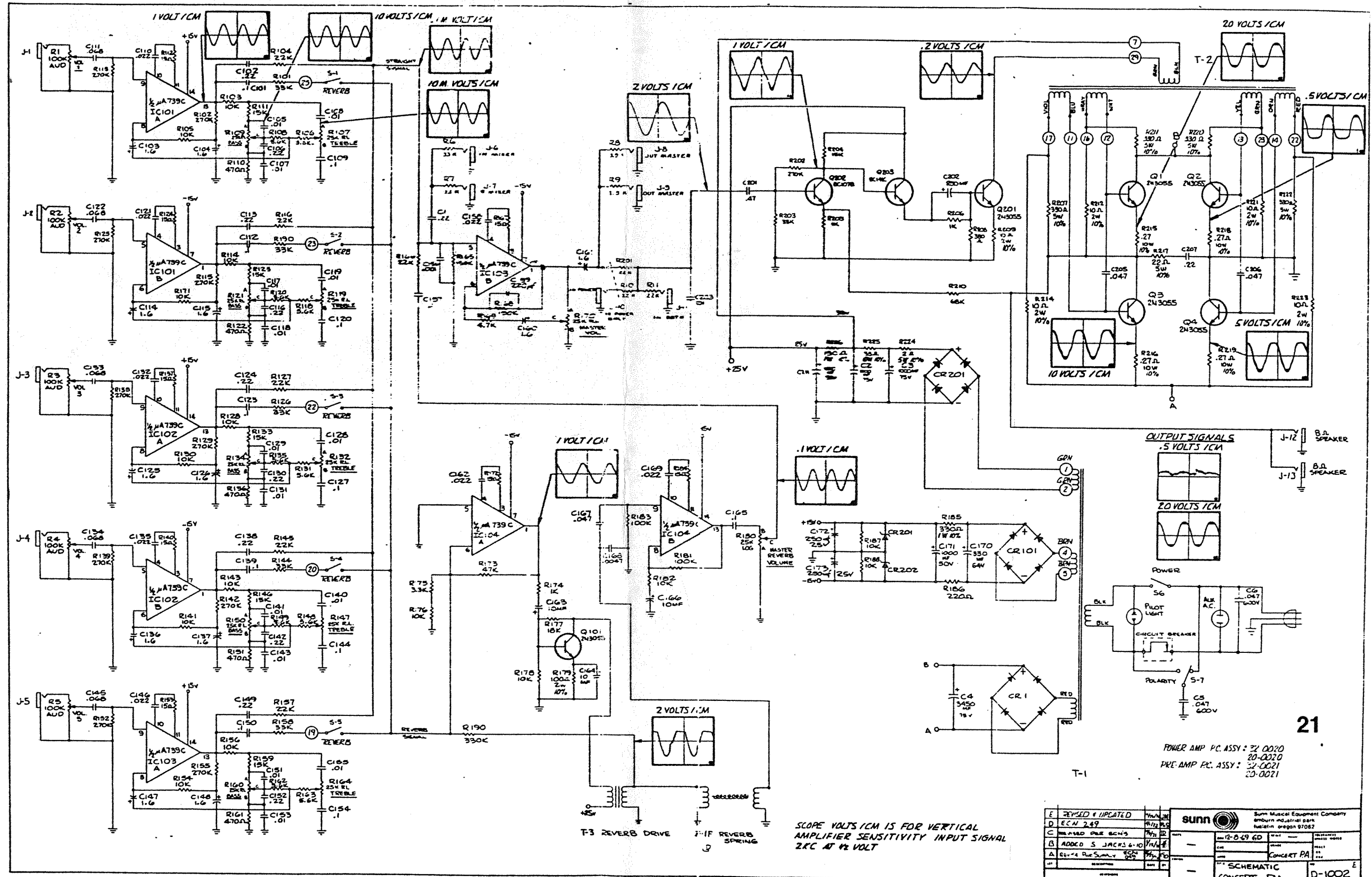
PIN NO.

- |                               |                        |
|-------------------------------|------------------------|
| 1. Reverb transformer (red)   | 21. Jumper to pin 17   |
| 2. Reverb transformer (green) | 22. Reverb 3 switch    |
| 3. Reverb                     | 23. Reverb 2 switch    |
| 4. Driver transformer (brown) | 24. Jumper to pin 18   |
| 5. Driver transformer (brown) | 25. Reverb 1 switch    |
| 6. Reverb cable               | 26. Level pot 4 ground |
| 7. Jumper to pin 28           | 27. Level pot 4        |
| 8. Pin 31 driver board        | 28. Jumper to pin 7    |
| 9. Chassis ground             | 29. Jumper to pin 37   |
| 10. Ground channel 5 pot      | 30. Jumper to pin 38   |
| 11. Jumper to pin 31          | 31. Jumper to pin 11   |
| 12. Channel 5 pot center      | 32. Level pot 3        |
| 13. Reverb switches (top)     | 33. Level pot ground   |
| 14. Reverb                    | 34. No connection      |
| 15. Reverb ground             | 35. Level pot 2 ground |
| 16. Out to mixer Jacks        | 36. Level pot 2        |
| 17. Jumper to pin 21          | 37. Jumper to pin 29   |
| 18. Jumper to pin 24          | 38. Jumper to pin 30   |
| 19. Reverb 5 switch           | 39. Level pot 1        |
| 20. Reverb 4 switch           | 40. Level pot 1 ground |
|                               | 41. Mixer Input Jack   |

CIRCUIT NO.

CIRCUIT NO.	DESCRIPTION	SUNN PART NO.
R117	18K ½ watt 5% carbon film resistor	
R190	330K ½ watt 5% carbon film resistor	12-3182
R175	3.3K ½ watt 5% carbon film resistor	12-4332
R173	47K ½ watt 5% carbon film resistor	12-2332
R181,183	100K ½ watt 5% carbon film resistor	12-3472
R165,168	150K ½ watt 5% carbon film resistor	12-4102
R169	4.7K ½ watt 5% carbon film resistor	12-4152
R176,178,182,187		12-2472
156,154,143,130		
141,128,114,103		
117,105	10K ½ watt 5% carbon film resistor	12-3102
R172,184,167,153		
140,124,112,137	15 ohm ½ watt 5% carbon film resistor	12-0152
R166,137,145,127		
116,104	22K ½ watt 5% carbon film resistor	12-3222
R152,155,142,138		
139,115,102,113		
125,129	270K ½ watt 5% carbon film resistor	12-4272
R159,146,133,123		
111	15K ½ watt 5% carbon film resistor	12-3152
R158,144,126,190		
101	33K ½ watt 5% carbon film resistor	12-3332

# Concert P.A.



POWER AMP PC. ASSY: 22-0020  
 20-0020  
 PRE-AMP PC. ASSY: 22-0021  
 20-0021

REVISED & UPDATED	DATE	BY	REASON
E	REVISED	...	...
D	ECN 249	...	...
C	ADDED 5 JACKS 6-10	...	...
B	ADDED 5 JACKS 6-10	...	...
A	REVISED	...	...

Sunn Musical Equipment Company 2000 N. Oregon Street Astoria, Oregon 97103	
Part No.	22-049 6D
Product	CONCERT PA
Doc. No.	SCHEMATIC
Rev.	1
Part Name	CONCERT P.A.
Part No.	D-1002