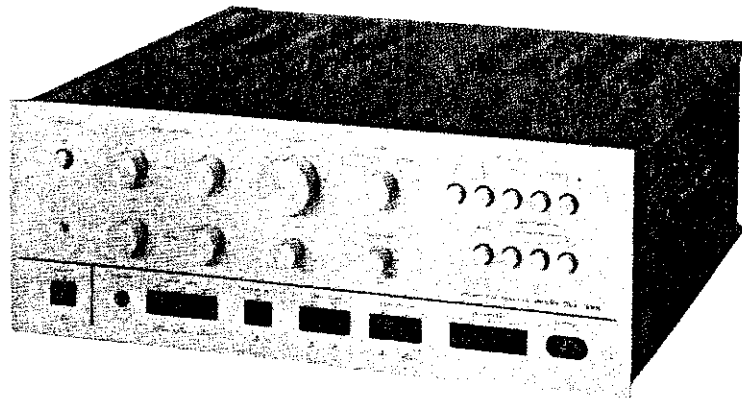




SANYO

**SANYO
4 CHANNEL
STEREO PRE AMPLIFIER
DCC 3001
SERVICE MANUAL**



SPECIFICATIONS

MONITOR AMPLIFIER SECTION

Continuous Power Output:
Amplifier load at 8 ohms (1 kHz, both channel driven)
 (1 kHz, each channel driven) 1 W/1 W
Total Harmonic Distortion: (At Rated Power Output) Less than 0.05%
Power Bandwidth: (IHF) DC - 300 kHz (at 0.1% T.H.D.)
Frequency Response: DC - 1 MHz (+0 dB ~ -1 dB)
Output Terminal/Matching Imp.:
Monitor Speaker 8 ohms
Damping Factor: More than 20 (1 kHz, 8 ohms)
Residual Hum and Noise: 0.2 mV (at 8 ohms)
Slew Rate: 15 V/ μ s

PRE-AMPLIFIER SECTION

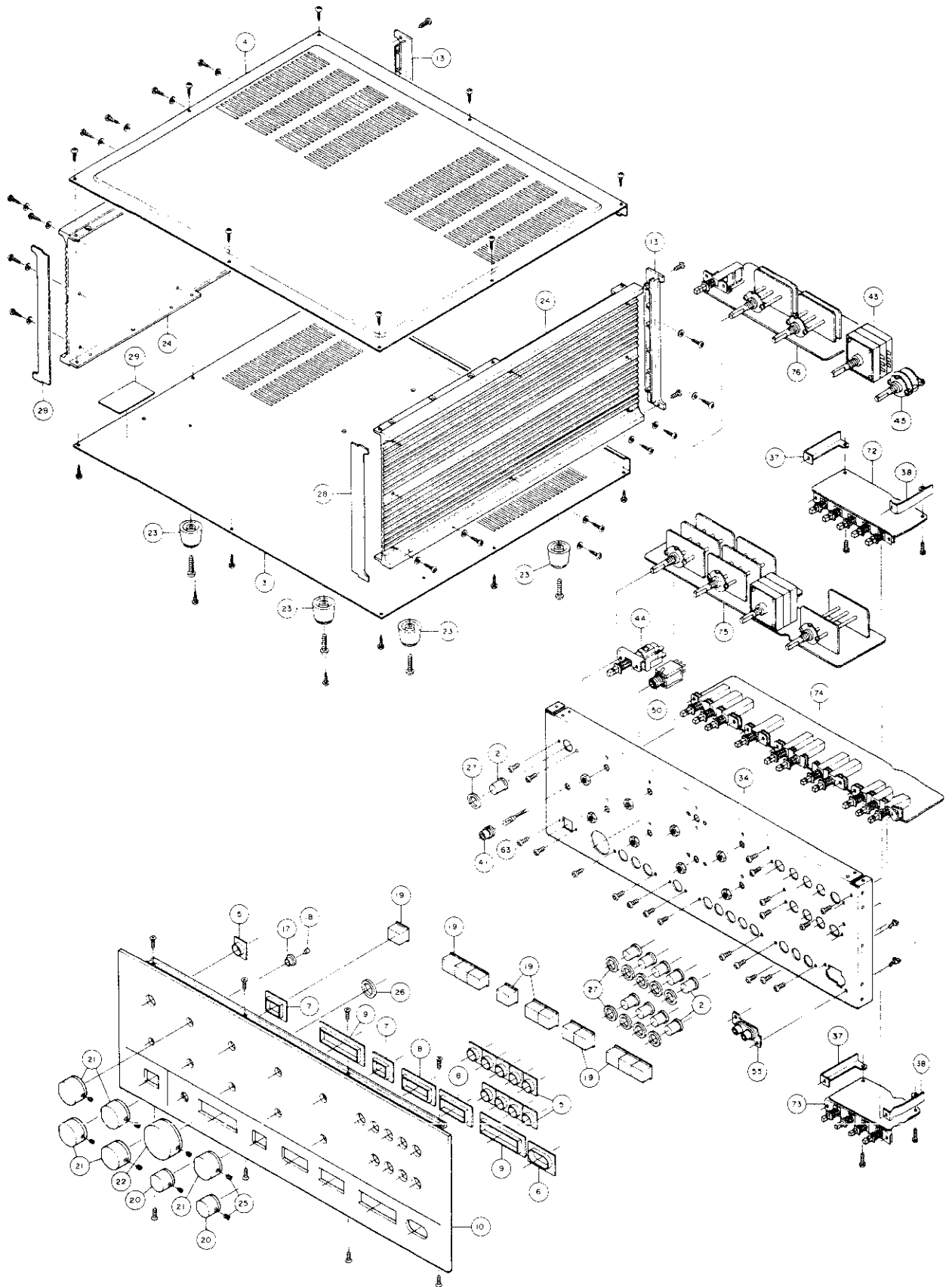
Input Sensitivity/Impedance: (1 kHz, at rated power)
 PHONO 1, 2: 2 mV/47 kohms
 TUNER : 200 mV/47 kohms
 AUX 1, 2 : 200 mV/47 kohms
 TAPE 1,2,3 : 200 mV/47 kohms
 DIN : 200 mV/47 kohms
Phono Overload Input: RMS 500 mV max. (1 kHz)
 Peak to Peak 1400 mV max. (1 kHz)
Signal to Noise Ratio:
PHONO 1, 2 : More than 118 dB (IHF, B network)
AUX 1, 2 : More than 120 dB (IHF, B network)
TUNER More than 120 dB (IHF, B network)
TAPE 1, 2, 3 : More than 120 dB (IHF, B network)

Output Level/Impedance: 2000 mV/1 kohms
PRE-OUT 1, 2 : PRE-AMP OUT: 0.02% (at rated power)
Total Harmonic Distortion:
Frequency Response: RIAA S.T.D. equalization
PHONO: 30 to 15 kHz \pm 0.1 dB
 10 to 100 kHz (+0 dB -- -1 dB)
TUNER/TAPE/AUX
Tone Control:
Bass Control: Turnover 200 Hz \pm 10 dB at 50 Hz
 (2 dB step) Turnover 400 Hz \pm 10 dB at 100 Hz
Treble Control: Turnover 2.5 kHz \pm 10 dB at 10 kHz
 (2 dB step) Turnover 5 kHz \pm 10 dB at 20 kHz
Filter Control:
Subsonic Filter: 30 Hz (18 dB/oct.)
Low Filter: 70 Hz (18 dB/oct.)
High Filter: 7 kHz (12 dB/oct.)
Supersonic Filter: 16 kHz (18 dB/oct.)
Audio Muting: -20 dB

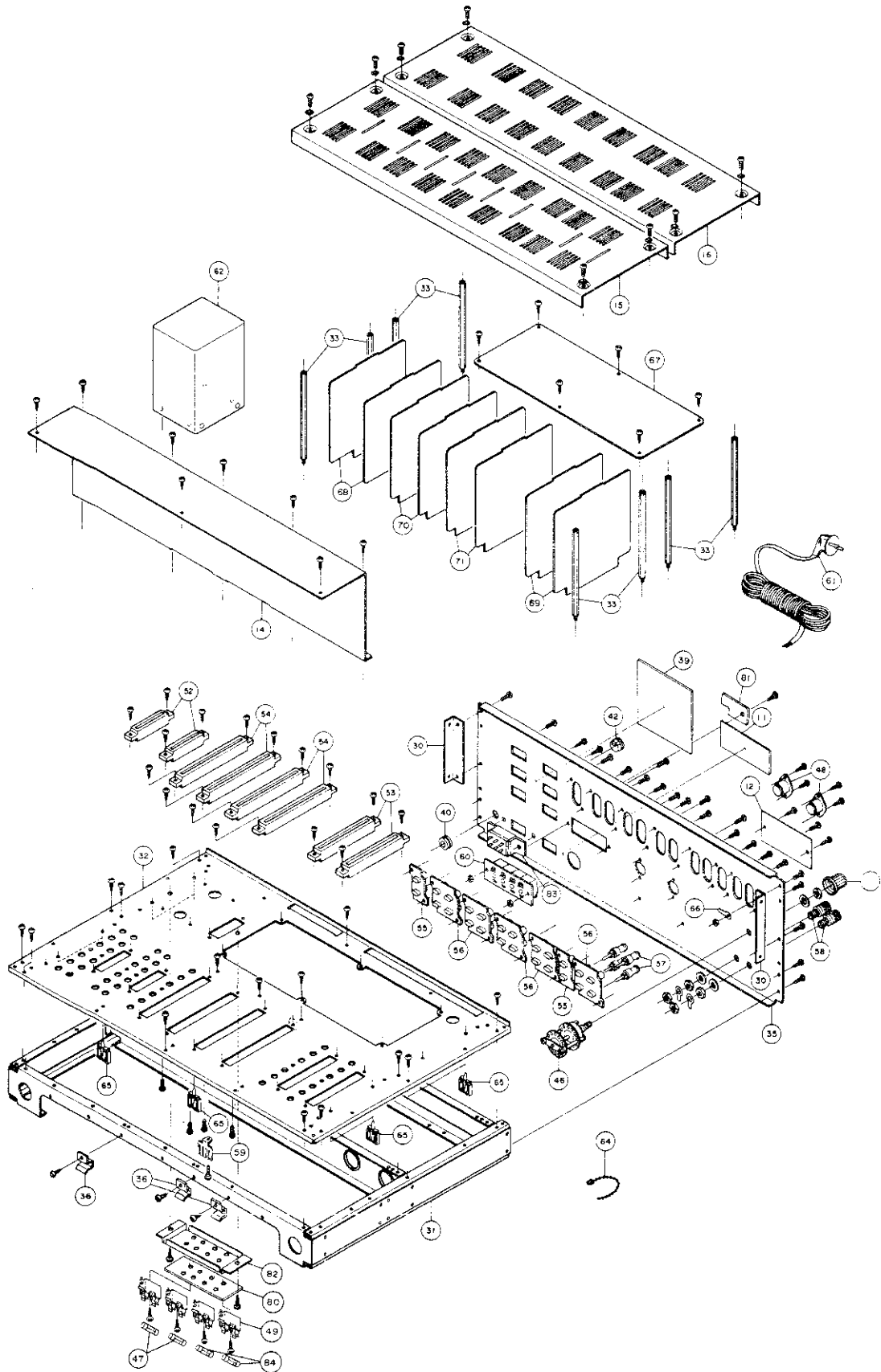
MISCELLANEOUS

Power Requirements: 110V to 220V, 50/60 Hz
AC Outlets: Switched: Six (Total 600W)
 Unswitched: Two (Total 200W)
Dimensions: 510W x 510D x 290H

EXPLODED VIEW



EXPLODED VIEW



PARTS LIST

Ref. No.	Part No.	Description	Qty
PACKING			
	131 6 1139 53005	Box corrugate-exp	1
	131 6 2119 01361	Bag polyethylene-exp	1
	131 6 3009 19850	Pad	1
	131 6 3009 19930	Pad, right, left	2
	131 6 4559 10700	Manufacturing NO	3
APPEARANCE			
1	131 0 1001 19202	Knob assy, rear impedance select	1
2	131 0 1001 30900	Knob assy, push switch	10
3	131 2 1105 14900	Plate bottom	1
4	131 2 1106 10703	Plate top	1
5	131 2 1116 13300	Frame, push knob	10
6	131 2 1116 13400	Frame, output terminal	1
7	131 2 1116 13500	Frame, power switch	2
8	131 2 1116 13600	Frame, turn over knob	2
9	131 2 1116 13700	Frame, duplicate	2
10	131 2 1203 31101	Panel control	1
12	131 2 1310 21828	Name plate	1
13	131 2 1311 34500	Sash, side	2
14	131 2 1410 12800	Cover, panel front	1
15	131 2 1410 12900	Cover, PCB section	1
16	131 2 1410 12901	Cover, power select	1
17	131 2 1501 10400	Cover, sign power ind.	1
18	131 2 1504 10902	Plate, sign lamp, power ind.	1
19	131 2 1601 33800	Knob, push switch	12
20	131 2 1601 33900	Knob, balance, loudness	2
21	131 2 1601 34000	Knob, bass, treble, function	5
22	131 2 1601 34100	Knob, volume	1
23	131 2 1801 13100	Leg	4
24	131 2 3315 10200	Panel side	2
25	131 2 4201 14600	Screw, rotary knob	8
26	131 2 4208 19100	Spacer, headphone jack	1
27	131 2 5203 23200	Felt, push switch	10
28	131 2 5205 14500	Cushion, side panel	2
29	131 2 6107 19000	Plate sever, plate bottom	1
	131 2 7103 19800	Label, plate bottom	1
	131 2 7103 19900	Caution label, plate top	1
CHASSIS			
11	131 2 1110 17900	Plate decorate	1
30	131 2 3202 11800	Metal reinf	2
31	131 2 3301 20701	Chassis	1
32	131 2 3301 20801	Chassis	1
33	131 2 3303 13000	Pole	8
34	131 2 3305 18001	Panel, front	1
35	131 2 3306 18605	Panel, rear	1
36	131 2 3310 13100	Metal, support	3
37	131 2 3614 16700	Metal, mount PCB	2
38	131 2 3614 16701	Metal, mount PCB	2
39	131 2 1110 18000	Plate decorate	1
40	131 2 6111 10300	Bushing	2
41	131 2 6111 14000	Bushing, power ind	1
42	131 2 6111 14300	Bushing, AC cord	1
80	131 2 7103 24100	Label fuse	1
81	131 2 7104 00500	Plate pad switch	1
82	131 2 3101 37500	MM fuse holder	1
ELECTRICAL PARTS			
43	4 2229 24460	Volume 100K detent	1
83	4 2319 21530	Switch	1
44	4 2319 33750	Power switch, push	1
45	4 2319 33790	Switch rotary, mode	1
46	4 2319 33800	Switch rotary	1
47	4 2349 20310	Fuse 0.5A	2
84	4 2349 20380	Fuse 1A	2
48	4 2359 20190	Socket 5P DIN	2
49	4 2359 21021	Fuse holder	4
50	4 2359 21670	Jack MIC	1
52	4 2359 22090	Connector 10P	2
53	4 2359 22110	PCB connector 18P	2
54	4 2359 22120	PCB connector 22P	4
55	4 2359 22130	RCA pin jack 2P	3

Ref. No.	Part No.	Description	Qty
ELECTRICAL PARTS			
56	4 2359 22140	RCA pin jack 4P	5
57	4 2369 20561	Plug 1P	4
58	4 2379 21060	Terminal G	2
59	4 2379 21260	Grand terminal lug 5P	1
60	4 2379 21400	Terminal, SP terminal 4P	1
61	4 2439 20590	Power cord	1
62	4 2519 23280	Power trans	1
63	4 6129 20470	Pilot lamp 12V	1
C02,03	C1HYDZ473A--	Ceramic 0.047MF 50V +80%,-20%	2
C01	C2JNRM103C--	PP 0.01MF 630V ±20%	1
R16,17,18,15	R2HDPJ104A	Carbon 100K 1/2W ±5%	4
R09,10	R2HDPJ204A	Carbon 200K 1/2W ±5%	2
R01,02	R2HDPJ332A	Carbon 3.3K 1/2W ±5%	2
R11,12,13,14	R2HDPJ334A	Carbon 330K 1/2W ±5%	4
R07,08	R2HDPJ393A	Carbon 39K 1/2W ±5%	2
R03,04,05,06	R2HDPJ623A	Carbon 62K 1/2W ±5%	4
64	131 2 3608 11300	Cramp wire	40
65	131 2 3608 11701	Cramp wire	8
66	201 3 7000 00300	Lug	1

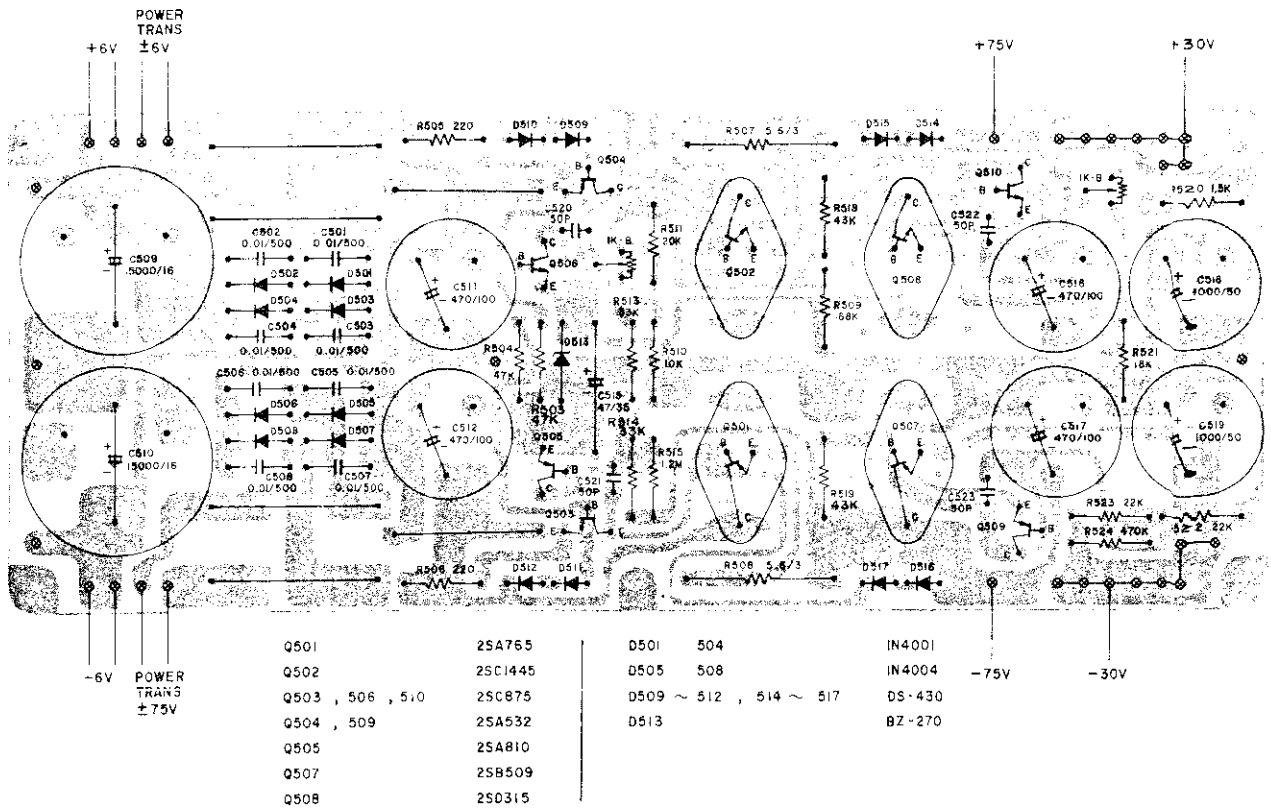
NOTES: 1. Part orders must contain Model Number, Part Number and Description.
 2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs

PARTS LIST

Ref. No.	Part No.	Description	Q'ty
POWER SUPPLY PCB ASSY			
67	131 0 4001 59701	Power supply assy	1
	4 2229 22910	VR B-1K Voltage	2
C09,10	4 2239 20710	Fixed cap 15000M 16V	2
C18,19	4 2239 20720	Fixed cap 1000M 50V	2
C11,12,16,17	4 2239 20730	Fixed cap 470M 100V	4
C15	4 2239 20820	Fixed cap 47M 35V	1
C20,21,22,23	C1HCSK500SL-	Ceramic 50PF 50V ±10%	4
C01,02,03,04,05,06,07,08	C2HYSP103A--	Ceramic 0.01MF 500V +100%-0%	8
D01,02,03,04	DGG-1N4001--	Diode 1N4001 GI	4
D05,06,07,08	DGG-1N4004--	Diode 1N4004 GI	4
D13	DJJ-CZ-275--	Zener diode CZ-275	1
R10	R2HDPJ123A	Carbon 12K 1/2W ±5%	1
R15	R2HDPJ125A	Carbon 1.2M 1/2W ±5%	1
R20	R2HDPJ152A	Carbon 1.5K 1/2W ±5%	1
R21	R2HDPJ183A	Carbon 18K 1/2W ±5%	1
R11	R2HDPJ203A	Carbon 20K 1/2W ±5%	1
R05,06	R2HDPJ221A	Carbon 220 1/2W ±5%	2
R22,23	R2HDPJ223A	Carbon 22K 1/2W ±5%	2
R13,14	R2HDPJ333A	Carbon 33K 1/2W ±5%	2
R18,19	R2HDPJ433A	Carbon 43K 1/2W ±5%	2

Ref. No.	Part No.	Description	Q'ty
POWER SUPPLY PCB ASSY			
R03,04	R2HDPJ473A	Carbon 47K 1/2W ±5%	2
R24	R2HDPJ474A	Carbon 470K 1/2W ±5%	1
R09	R2HDPJ683A	Carbon 68K 1/2W ±5%	1
R07,08	R3WEPK5R6A	Cemen 5.6 3W ±10%	2
Q01	TAA-2SA765-G	Transistor 2SA765	1
Q02	TAA-2SC1445-G	Transistor 2SC1445	1
Q05	THH-2SA810-B	Transistor 2SA810	1
Q05	131 2 4208 20900	Transistor spacer	1
Q03,04,06,09,10	131 2 4208 20910	Transistor spacer	5
R01,02,07,08	131 2 6108 11201	Cover sever	8
Q01,02,07,08	131 2 6201 20400	Heat sink	4
Q03,06,10	203 5 4600 87560	Transistor 2SC 875	3
Q07	203 5 6450 50950	Transistor 2SB509	1
Q04,09	203 5 7100 53250	Transistor 2SA 532	2
Q08	203 5 8410 31550	Transistor 2SD315	1
D09,10,11,12,14,15,16,17	205 5 9020 43011	Diode DS 430	8

POWER SUPPLY PCB ASSY

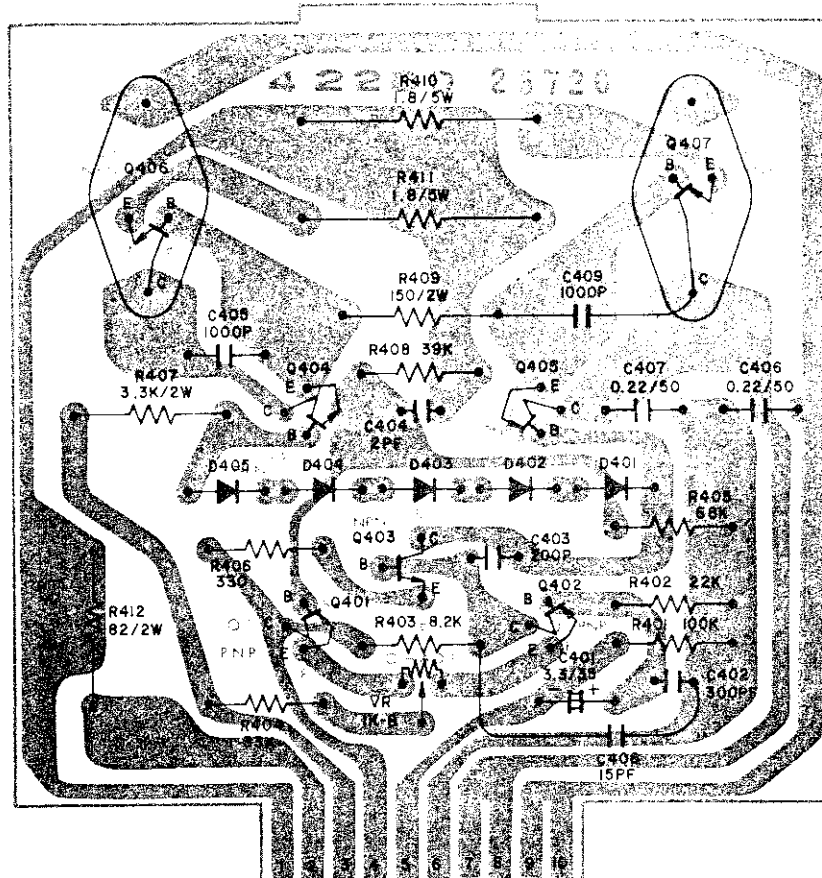


PARTS LIST

Ref. No.	Part No.	Description	Q'ty
MONITOR AMP PCB ASSY			
68	131 0 4001 59200 4 2229 22910	Monitor AMP PC assy VR B-1K Bias adjust	2 1
C08	C1HCDJ150SL-	Ceramic 15PF 50V ±5%	1
C04	C1HCSC020SL-	Ceramic 2PF 50V ±0.25PF	1
C03	C1HCSK201SL-	Ceramic 200PF 50V ±10%	1
C02	C1HCSK301SL-	Ceramic 300PF 50V ±10%	1
C06,07	C1HFAM224A-	Mylar 0.22MF 50V ±20%	2
C05,09	C1HYSK102R--	Ceramic 0.001MF 50V ±20%	2
C01	C1VTRM335A-	Tantal 3.3MF 35V ±20%	1
R01	R2HDPJ104A	Carbon 100K ohm 1/2W ±5%	1
R02	R2HDPJ223A	Carbon 22K ohm 1/2W ±5%	1
R06	R2HDPJ331A	Carbon 330 ohm 1/2W ±5%	1
R04	R2HDPJ333A	Carbon 33K ohm 1/2W ±5%	1
R08	R2HDPJ393A	Carbon 39K ohm 1/2W ±5%	1
R05	R2HDPJ683A	Carbon 68K ohm 1/2W ±5%	1
R03	R2HDPJ822A	Carbon 8.2K ohm 1/2W ±5%	1
R09	R3DXPK151A	OMF 150 2W ±10%	1

Ref. No.	Part No.	Description	Q'ty
MONITOR AMP PCB ASSY			
R07	R3DXPK332A	OMF 3.3K 2W ±10%	1
R12	R3DXPK820A	OMF 82 2W ±10%	1
R10,11	R3HEPK1R8A	Cemen 1.8 5W ±10%	2
Q01,02	TJJ-2SA763-5	Transistor 2SA763	2
Q05	TMM-2SA726-F	Transistor 2SA726	1
Q04	TMM-2SC1313-F	Transistor 2SC1313	1
Q01,02, 04,05	131 2 4208 20900	Transistor spacer	4
Q03	131 2 4208 20910	Transistor spacer	1
R10,11, 09,07, 12	131 2 6108 11201	Cover sever	10
Q06,07	131 2 6201 20400	Heat sink	2
Q03	203 5 4600 87550	Transistor 2SC875	1
Q06	203 5 6450 50950	Transistor 2SB509	1
Q07	203 5 8410 31550	Transistor 2SD315 E	1
D01,02, 03,04, 05	205 5 9020 43011	Diode DS 430	5

MONITOR AMP PCB ASSY



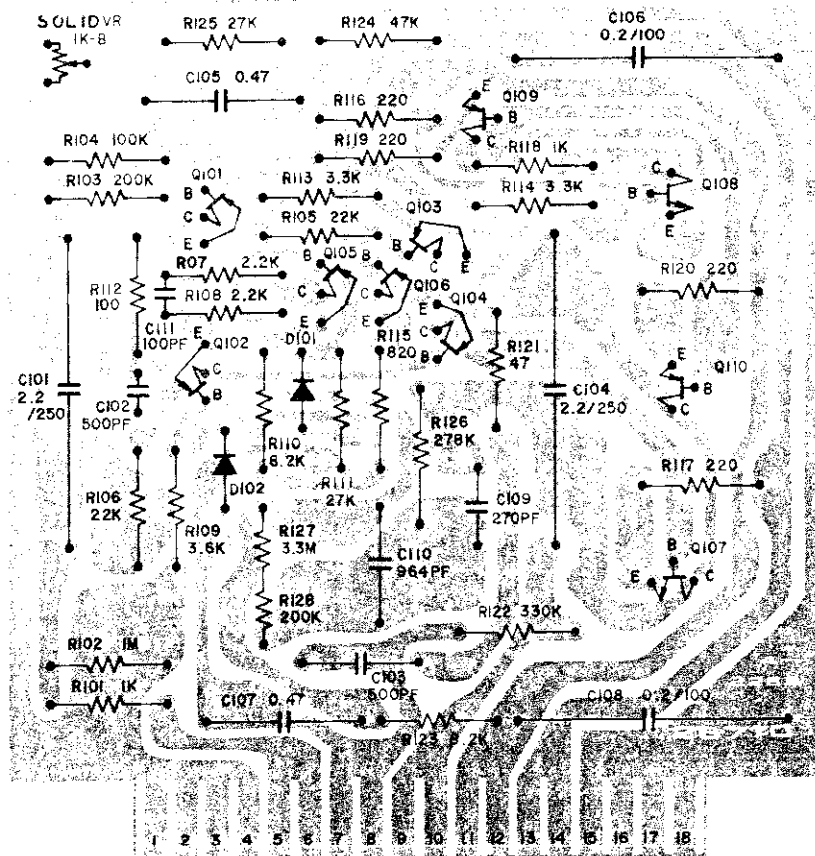
Q401 , 402	2SA763	Q403	2SC875
Q405	2SA736	Q404	2SC1313
Q407	2SB509	Q406	2SD315
D401 ~ 405	DS-430		

PARTS LIST

Ref. No.	Part No.	Description	Q'ty
EQ AMP PCB ASSY			
69	131 0 4001 59100	EQ AMP PCB Assy	2
R26	4 2219 20020	Carbon 278K ohm 1/2W	1
	4 2229 22910	VR B-1K, C.P. Adjust	1
C10	4 2239 20850	Styrol 964PF 50V ±0.5PF	1
C11	C1HCSK101SL-	Ceramic 100PF 50V ±10%	1
C05,07	C1HFAM474A--	Mylar 0.47MF 50V ±20%	2
C09	C1HSED271A--	Styrol 270PF 50V ±0.5PF	1
C02,03	C1HSEK501A--	Styrol 500PF 50V ±10%	2
C06,08	C2AHTM204A--	MP 0.2MF ohm 100V ±20%	2
C01,04	C2EFTM225B--	Mylar 2.2MF ohm 250V ±20%	2
R28	R2HDPD204A	Carbon 200K ohm 1/2W	1
R27	R2HDPD335A	Carbon 3.3M ohm 1/2W	1
R12	R2HDPJ101A	Carbon 100 ohm 1/2W ±5%	1
R01,18	R2HDPJ102A	Carbon 1K ohm 1/2W ±5%	2
R04	R2HDPJ104A	Carbon 100K ohm 1/2W ±5%	1
R02	R2HDPJ105A	Carbon 1M ohm 1/2W ±5%	1
R03	R2HDPJ204A	Carbon 200K ohm 1/2W ±5%	1
R16,17,19,20	R2HDPJ221A	Carbon 220 ohm 1/2W ±5%	4

Ref. No.	Part No.	Description	Q'ty
EQ AMP PCB ASSY			
R07,08	R2HDPJ222A	Carbon 2.2K ohm 1/2W ±5%	2
R05,06	R2HDPJ223A	Carbon 22K ohm 1/2W ±5%	2
R11,25	R2HDPJ273A	Carbon 27K ohm 1/2W ±5%	2
R13,14	R2HDPJ332A	Carbon 3.3K ohm 1/2W ±5%	2
R22	R2HDPJ334A	Carbon 330K ohm 1/2W ±5%	1
R09	R2HDPJ362A	Carbon 3.6K ohm 1/2W ±5%	1
R21	R2HDPJ470A	Carbon 47 ohm 1/2W ±5%	1
R24	R2HDPJ473A	Carbon 47K ohm 1/2W ±5%	1
R15	R2HDPJ821A	Carbon 820 ohm 1/2W ±5%	1
R10,23	R2HDPJ822A	Carbon 8.2K ohm 1/2W ±5%	2
Q09,10	THH-2SA810-B	Transistor 2SA810	2
Q07,08	THH-2SC1452-B	Transistor 2SC1452	2
Q01,02,03,04	TJJ-2SA620-WL	Transistor 2SA620	4
Q05,06	TMM-2SA628-E	Transistor 2SA628	2
Q01~10	131 2 4208 20900	Transistor spacer	10
Q07,08,10	131 2 6202 11400	Heat sink	3
D01,02	205 5 9040 44210	Diode DS-442	2

EQ AMP PCB ASSY



- | | | | |
|------------|-------------|------------|------------|
| Q101 ~ 104 | 2SA620WLH | Q105 , 106 | 2SA628 E,F |
| Q107 , 108 | 2SC1452 B,V | Q109 , 110 | 2SA810 B,V |
| D101 , 102 | DS-430 (S) | | |

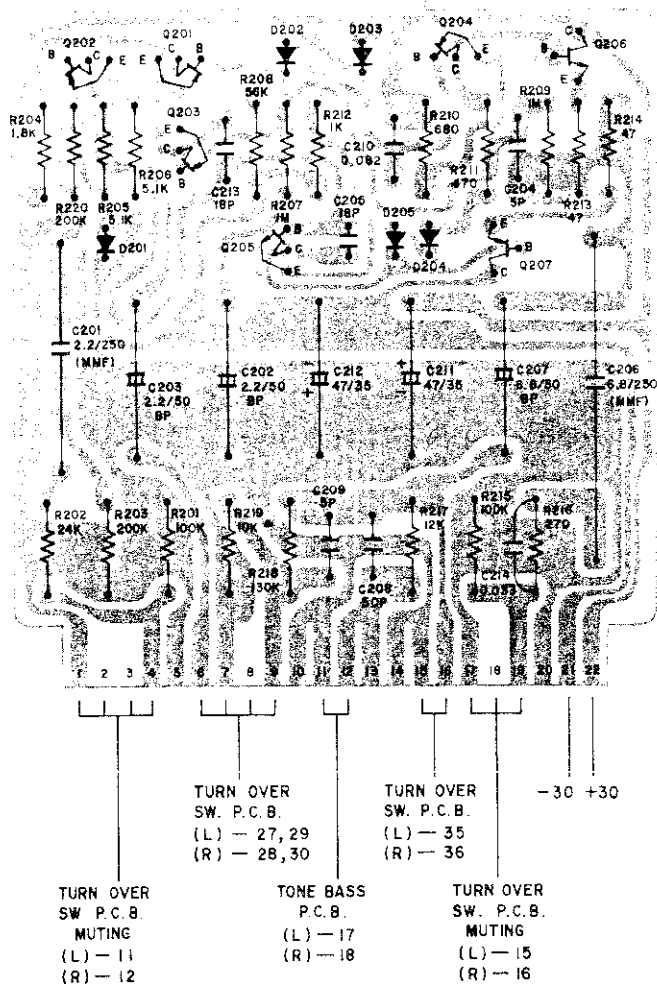
PARTS LIST

Ref. No.	Part No.	Description	Q'ty
TONE AMP PCB ASSY			
70	131 0 4001 59600	Tone AMP PCB Assy	2
C07	4 2239 20780	BP cap 6.8M 50V	1
C02,03	4 2239 20790	BP cap 2.2M 50V	2
C11,12	4 2239 20820	Fixed cap 47M 35V	2
C04,09	C1HCDC050SL-	Ceramic 5PF 50V ±0.25PF	2
C05,13	C1HCDJ180SL-	Ceramic 18PF 50V ±5%	2
C08	C1HCDJ500SL-	Ceramic 50PF 50V ±5%	1
C14	C1HFAM333A--	Mylar 0.033MF 50V ±20%	1
C10	C1HFAM823A--	Mylar 0.082MF 50V ±20%	1
C01	C2EFTM225B--	Mylar 2.2MF 250V ±20%	1
C06	C2EFTM685B--	Mylar 6.8MF 250V ±20%	1
R12	R2HDPJ102A	Carbon 1K ohm 1/2W ±5%	1
R19	R2HDPJ103A	Carbon 10K ohm 1/2W ±5%	1
R01,15	R2HDPJ104A	Carbon 100K ohm 1/2W ±5%	2
R07,09	R2HDPJ105A	Carbon 1M ohm 1/2W ±5%	2
R17	R2HDPJ123A	Carbon 12K ohm 1/2W ±5%	1
R18	R2HDPJ134A	Carbon 130K ohm 1/2W ±5%	1
R04	R2HDPJ182A	Carbon 1.8K ohm 1/2W ±5%	1
R03,20	R2HDPJ204A	Carbon 200K ohm 1/2W ±5%	2
R02	R2HDPJ243A	Carbon 24K ohm 1/2W ±5%	1
R16	R2HDPJ271A	Carbon 270 ohm 1/2W ±5%	1

Ref. No.	Part No.	Description	Q'ty
TONE AMP PCB ASSY			
R13,14	R2HDPJ470A	Carbon 47 ohm 1/2W ±5%	2
R11	R2HDPJ471A	Carbon 470 ohm 1/2W ±5%	1
R05,06	R2HDPJ512A	Carbon 5.1K ohm 1/2W ±5%	2
R08	R2HDPJ563A	Carbon 56K ohm 1/2W ±5%	1
R10	R2HDPJ681A	Carbon 680 ohm 1/2W ±5%	1
Q01,02, 03,04	TJJ-2SA763-WL	Transistor 2SA763-WLH	4
Q05	TMM-2SC1313SF	Transistor 2SC1313S	1
Q01,02, 03,04, 05	131 2 4208 20900	Transistor spacer	5
Q06,07	131 2 4208 20910	Transistor spacer	2
Q06	203 5 4600 87550	Transistor 2SC875	1
Q07	203 5 7100 53250	Transistor 2SA532	1
D01,02, 03,04, 05	205 5 9020 43011	Diode DS 430	5

TONE AMP PCB ASSY

- Q201 ~ 204 2SA763 - WLH-5 Q205 2SC1313S F, G
- Q206 2SC875 E, F Q207 2SA532 E, F
- D201 ~ 205 DS-430



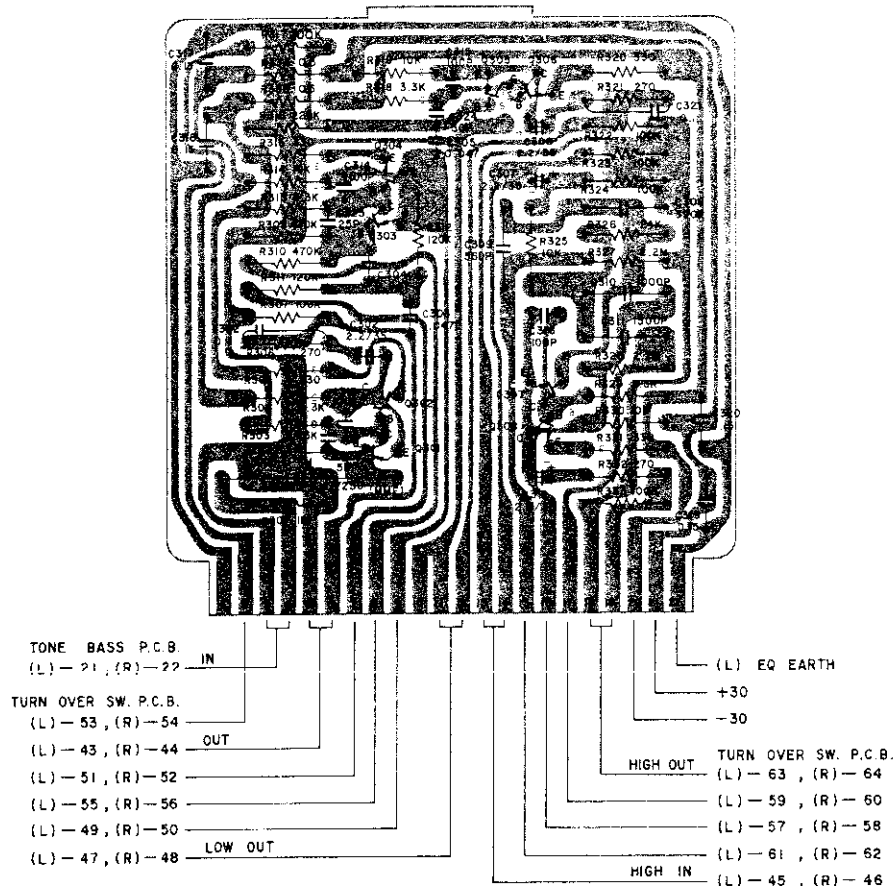
PARTS LIST

Ref. No.	Part No.	Description	Q'ty
FILTER AMP PCB ASSY			
71	131 0 4001 59300	Filter AMP PCB Assy	2
C23	C1HCDC050SL-	Ceramic 5PF 50V ± 0.25 PF	1
C25	C1HCDJ250SL-	Ceramic 25PF 50V $\pm 5\%$	1
C24	C1HCDK500SL-	Ceramic 50PF 50V $\pm 10\%$	1
C13,14, 15,16	C1HCSK101SL-	Ceramic 100PF 50V $\pm 10\%$	4
C03,04, 05	C1HFAJ473A--	Mylar 0.047MF 50V $\pm 5\%$	3
C21,22	C1HFAM104A--	Mylar 0.1MF 50V $\pm 20\%$	2
C17,18, 19,20	C1HFAM154A--	Mylar 0.15MF 50V $\pm 20\%$	4
C10	C1HSTJ102A--	Styrol 1000PF 50V $\pm 5\%$	1
C11	C1HSTJ132A--	Styrol 1300PF 50V $\pm 5\%$	1
C08	C1HSTJ391A--	Styrol 390PF 50V $\pm 5\%$	1
C09	C1HSTJ561A--	Styrol 560PF 50V $\pm 5\%$	1
C07	C1VTRM225A--	Tantal 2.2MF 35V $\pm 20\%$	1
C02,06, 12	C1VTRM475A--	Tantal 4.7MF 35V $\pm 20\%$	3
C01	C2EFTM474B--	Mylar 0.47MF 250V $\pm 20\%$	1
R34,35	R2HDPJ0R5A	Carbon 0.5A ohm 1/2W $\pm 5\%$	2
R25,14, 19,30	R2HDPJ103A	Carbon 10K ohm 1/2W $\pm 5\%$	4
R07,33, 22,23, 24	R2HDPJ104A	Carbon 100K ohm 1/2W $\pm 5\%$	5

Ref. No.	Part No.	Description	Q'ty
FILTER AMP PCB ASSY			
R01,02	R2HDPJ105A	Carbon 1M ohm 1/2W $\pm 5\%$	2
R12,11	R2HDPJ124A	Carbon 120K ohm 1/2W $\pm 5\%$	2
R17	R2HDPJ204A	Carbon 200K ohm 1/2W $\pm 5\%$	1
R16	R2HDPJ224A	Carbon 220K ohm 1/2W $\pm 5\%$	1
R27,28	R2HDPJ225A	Carbon 2.2M ohm 1/2W $\pm 5\%$	2
R26	R2HDPJ243A	Carbon 24K ohm 1/2W $\pm 5\%$	1
R06,21, 32	R2HDPJ271A	Carbon 270 ohm 1/2W $\pm 5\%$	3
R05 15, 20,31	R2HDPJ331A	Carbon 330 ohm 1/2W $\pm 5\%$	4
R04,13, 18,29	R2HDPJ332A	Carbon 3.3K ohm 1/2W $\pm 5\%$	4
R10,09	R2HDPJ474A	Carbon 470K ohm 1/2W $\pm 5\%$	2
R03	R2HDPJ752A	Carbon 7.5K ohm 1/2W $\pm 5\%$	1
Q01,03, 05,07	TJJ-2SA763-WL	Transistor 2SA763	4
Q04,06, 08	TMM-2SC1313SF	Transistor 2SC1313	3
Q01,03, 04,05, 06,07, 08	131 2 4208 20900	Transistor spacer	7
Q02	131 2 4208 20910	Transistor spacer	1
Q02	203 5 4600 87550	Transistor 2SC875	1

FILTER AMP PCB ASSY

Q301 , 303 , 305 , 307 2SA763 - WLH-5
 Q302 2SC875 F,E
 Q304 , 306 , 308 2SC1313S

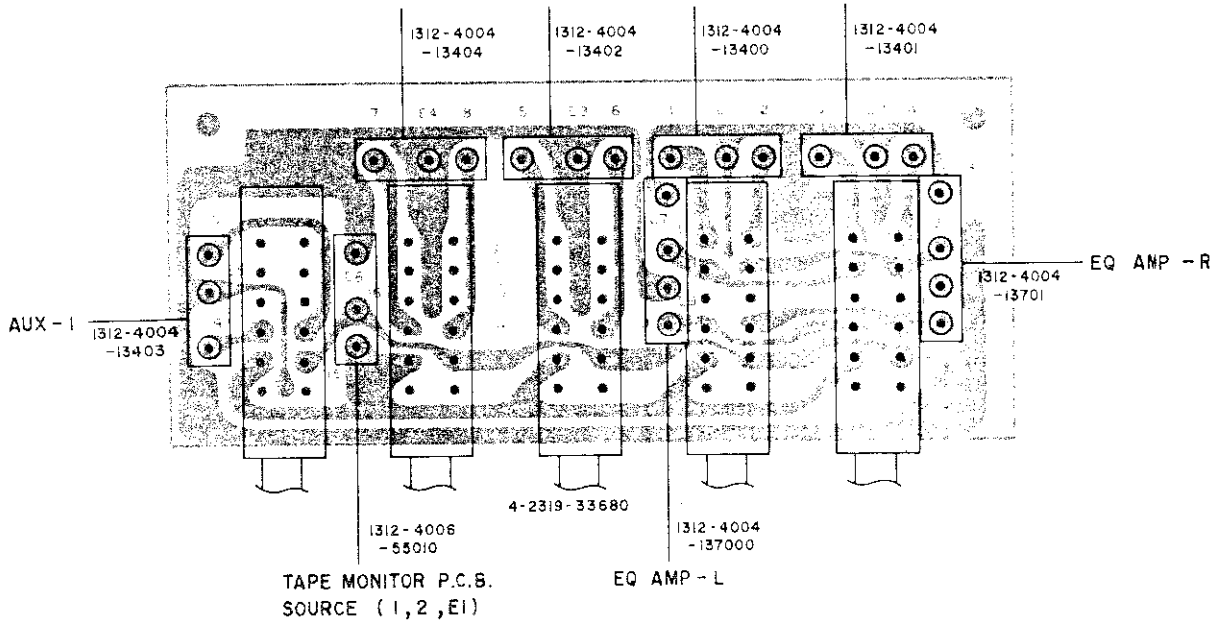


PARTS LIST

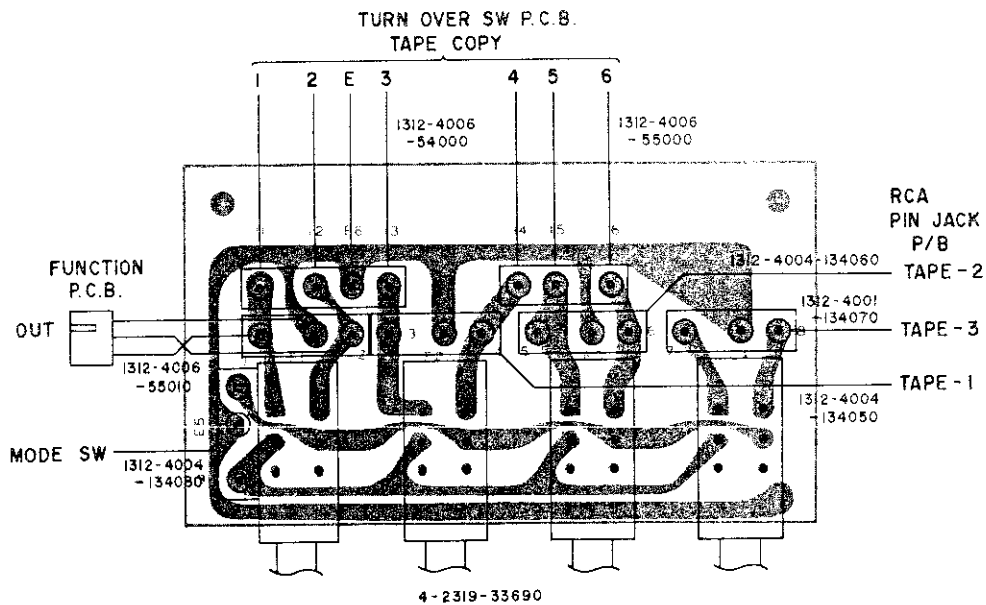
Ref. No.	Part No.	Description	Q'ty
FUNCTION PCB ASSY			
72	131 0 4001 59800	Function PCB assy	1
	4 2319 33680	Push switch 5key	1
	4 2379 21360	Terminal, PH1,2, Tuner, Aux1,2 output	6
	4 2379 21370	Terminal 4P, Phono-L, R	2

Ref. No.	Part No.	Description	Q'ty
TAPE MONITOR PCB ASSY			
73	131 0 4001 59900	Tape monitor PCB assy	1
	4 2319 33690	Push switch 4key, Tape monitor	1
	4 2379 21360	Terminal, Tape 1,2,3, Mode, Tape copy	5
	4 2379 21370	Terminal 4P, Tape copy	1
	131 2 4006 05501	Wire assy 3P	1

FUNCTION PCB ASSY

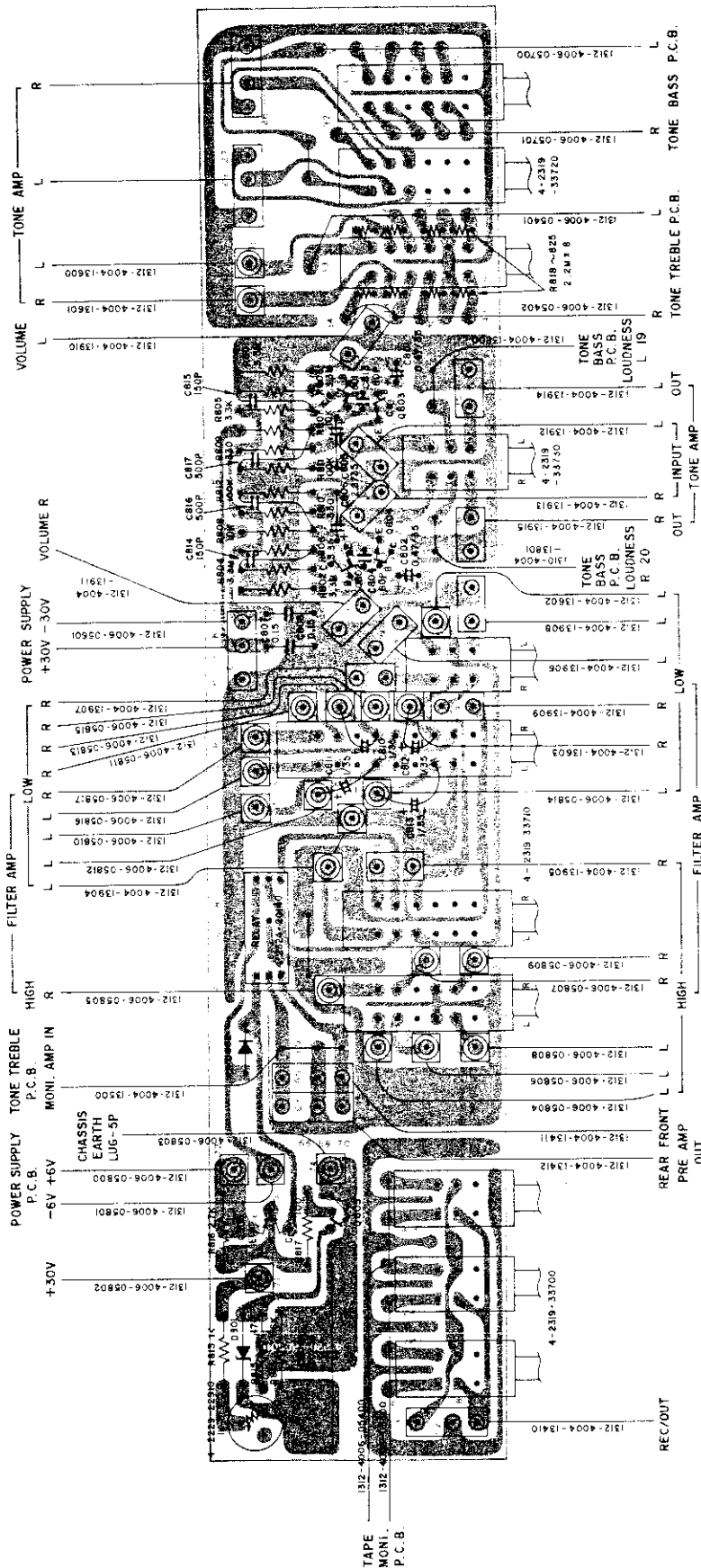


TAPE MONITOR PCB ASSY



PARTS LIST

Ref. No.	Part No.	Description	Q'ty	
TURN OVER PCB ASSY				
74	131 0 4001 60000	Turn over switch PCB assy	1	
C09	4 2229 22910	VR B-1K*1	1	
	4 2239 20810	Fixed cap 470M 35V	1	
	4 2319 33700	Push SW 3key, Tape copy	1	
	4 2319 33710	Push SW 4key, Filter	1	
	4 2319 33720	Push SW 3key, Tone turnover	1	
	4 2319 33730	Push SW 1key, Audio muting	1	
	4 2329 20140	Relay, Muting	1	
	4 2379 21340	Connector 1P	46	
		4 2379 21360	Terminal, Rec out, Pre out, Power Tone Amp	6
	C14,15	C1HCDK151SL-	Ceramic 150PF 50V ±10%	2
C03,04	C1HCSK800SL-	Ceramic 80PF 50V ±10%	2	
C07,08	C1HFAM154A--	Mylar 0.15MF 50V ±20%	2	
C16,17	C1HYDK501R--	Ceramic 500PF 50V ±10%	2	
C10,11, 12,13	C1VTRM105A--	Tantal 1MF 35V ±20%	4	
C05,06	C1VTRM225A--	Tantal 2.2MF 35V ±20%	2	
C01,02	C1VTRM474A--	Tantal 0.47MF 35V ±20%	2	
D02	DGG-1N4001--	Diode 1N4001	1	
D01	DJJ-WZ-260--	Zener, Diode WZ-260	1	
R18,19, 20,21 22,23, 24,25	R2EDUJ225A	Carbon 2.2M ohm 1/4W ±5%	8	
R17	R2HDPJ101A	Carbon 100 ohm 1/2W ±5%	1	
R13	R2HDPJ102A	Carbon 1K ohm 1/2W ±5%	1	
R07,08	R2HDPJ103A	Carbon 10K ohm 1/2W ±5%	2	
R11,12	R2HDPJ104A	Carbon 100K ohm 1/2W ±5%	2	
R16	R2HDPJ272A	Carbon 2.7K ohm 1/2W ±5%	1	
R09,10	R2HDPJ331A	Carbon 330 ohm 1/2W ±5%	2	
R05,06	R2HDPJ332A	Carbon 3.3K ohm 1/2W ±5%	2	
R01,02 03,04	R2HDPJ335A	Carbon 3.3M ohm 1/2W ±5%	4	
R15	R2HDPJ471A	Carbon 470 ohm 1/2W ±5%	1	
R14	R2HDPJ563A	Carbon 56K ohm 1/2W ±5%	1	
Q01,02	TJJ-2SA763-WL	Transistor 2SA763	2	
Q03,04	TMM-2SC1313SF	Transistor 2SC1313	2	
Q05	TMM-2SC711-E	Transistor 2SC711	1	
	131 0 4004 13500	Wire assy shield, Monitor Amp SW	1	
	131 0 4004 13800	Wire assy shield, Loudness L	1	
	131 0 4004 13801	Wire assy shield, Loudness R	1	
	131 0 4006 05400	Wire assy 4P	1	
	131 0 4006 05401	Wire assy 4P, Tone treble L	1	
	131 0 4006 05402	Wire assy 4P, Tone treble R	1	
	131 0 4006 05500	Wire assy 3P, Monitor	1	
	131 0 4006 05700	Wire assy 5P, Tone bass L	1	
	131 0 4006 05701	Wire assy 5P, Tone bass R	1	
Q01,02, 03,04, 05	131 2 4208 20900	Transistor spacer	5	
Q06	131 2 4208 20910	Transistor spacer	1	
Q06	203 5 7100 53250	Transistor 2SA532	1	



1312-4006-05700	L	1312-4006-05701	R	1312-4006-05401	L	1312-4006-05402	R	1312-4006-05403	L	1312-4006-05404	R	1312-4006-05405	L	1312-4006-05406	R	1312-4006-05407	L	1312-4006-05408	R	1312-4006-05409	L	1312-4006-05410	R	1312-4006-05411	L	1312-4006-05412	R	1312-4006-05413	L	1312-4006-05414	R	1312-4006-05415	L	1312-4006-05416	R	1312-4006-05417	L	1312-4006-05418	R	1312-4006-05419	L	1312-4006-05420	R	1312-4006-05421	L	1312-4006-05422	R	1312-4006-05423	L	1312-4006-05424	R	1312-4006-05425	L	1312-4006-05426	R	1312-4006-05427	L	1312-4006-05428	R	1312-4006-05429	L	1312-4006-05430	R	1312-4006-05431	L	1312-4006-05432	R	1312-4006-05433	L	1312-4006-05434	R	1312-4006-05435	L	1312-4006-05436	R	1312-4006-05437	L	1312-4006-05438	R	1312-4006-05439	L	1312-4006-05440	R	1312-4006-05441	L	1312-4006-05442	R	1312-4006-05443	L	1312-4006-05444	R	1312-4006-05445	L	1312-4006-05446	R	1312-4006-05447	L	1312-4006-05448	R	1312-4006-05449	L	1312-4006-05450	R
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Q801, 802	2SA763	WLH-5
Q803, 804	2SC1313	F, G
Q805	2SC711	
Q806	2SA832	E, F
D801	BZ-260	
D802	IN4002	

PARTS LIST

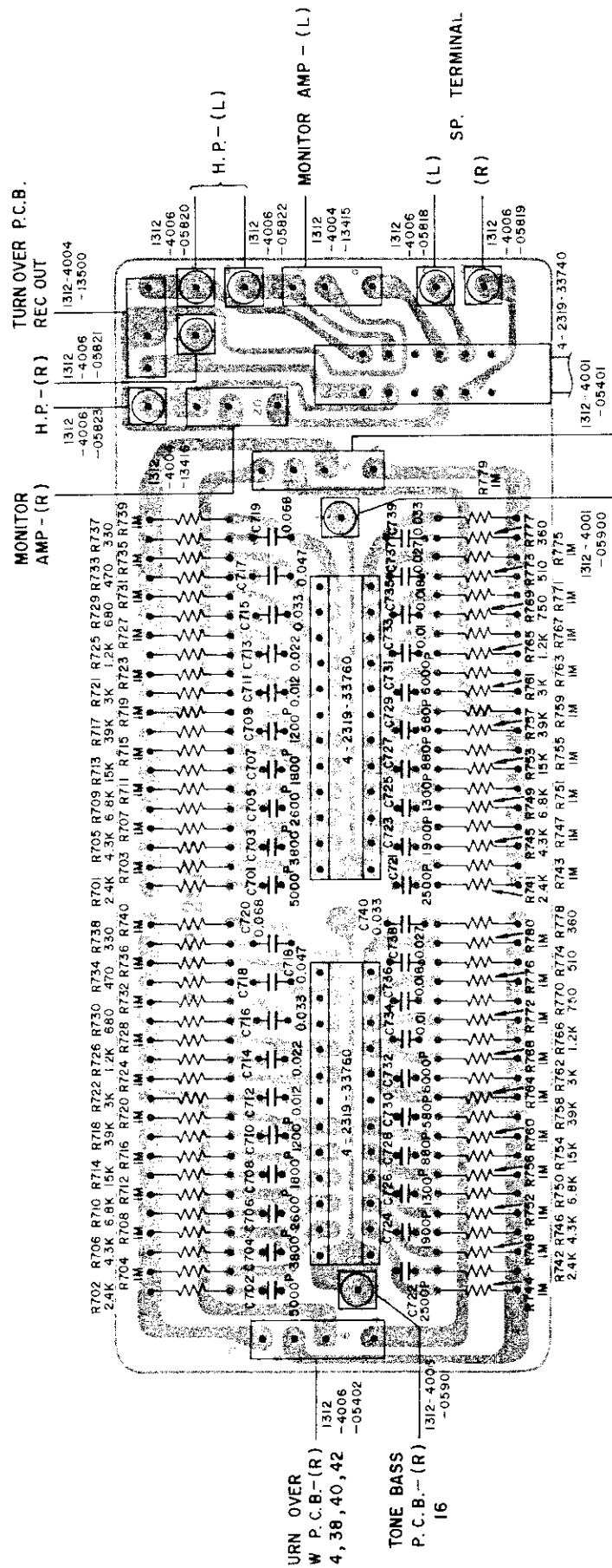
Ref. No.	Part No.	Description	Qty
tone TREBLE ASSY			
76	131 0 4001 59500	Tone treble PCB assy	1
	4 2319 33740	Switch Push 1key, Monitor Amp	1
	4 2319 33760	Switch Rotary, Tone treble	2
	4 2379 21340	Connector 1P	8
	4 2379 21360	Terminal	3
	4 2379 21370	Terminal 4P	2
C33,34	C1HFAJ103A--	Mylar 0.01MF 50V ±5%	2
C11,12	C1HFAJ123A--	Mylar 0.012MF 50V ±5%	2
C35,36	C1HFAJ183A--	Mylar 0.018MF 50V ±5%	2
C13,14	C1HFAJ223A--	Mylar 0.022MF 50V ±5%	2
C37,38	C1HFAJ273A--	Mylar 0.027MF 50V ±5%	2
C15,16, 39,40	C1HFAJ333A--	Mylar 0.033MF 50V ±5%	4
C17,18	C1HFAJ473A--	Mylar 0.047MF 50V ±5%	2
C19,20	C1HFAJ683A--	Mylar 0.068MF 50V ±5%	2
C09,10	C1HSBJ122A--	Styrol 1200PF 50V ±5%	2
C25,26	C1HSBJ132A--	Styrol 1300PF 50V ±5%	2
C07,08	C1HSBJ182A--	Styrol 1800PF 50V ±5%	2
C23,24	C1HSBJ192A--	Styrol 1900PF 50V ±5%	2
C21,22	C1HSBJ252A--	Styrol 2500PF 50V ±5%	2
C05,06	C1HSBJ262A--	Styrol 2600PF 50V ±5%	2
C03,04	C1HSBJ382A--	Styrol 3800PF 50V ±5%	2
C01,02	C1HSBJ502A--	Styrol 5000PF 50V ±5%	2
C29,30	C1HSBJ581A--	Styrol 580PF 50V ±5%	2
C31,32	C1HSBJ602A--	Styrol 6000PF 50V ±5%	2
C27,28	C1HSBJ881A--	Styrol 880PF 50V ±5%	2
R03,04, 07,08, 11,12, 15,16, 19,20, 23,24, 27,28, 31,32, 35,36, 39,40, 43,44, 47,48, 51,52, 55,56, 59,60, 63,64, 67,68, 71,72, 75,76, 79,80	R2EDSJ105A	Carbon 1M ohm 1/4W ±5%	40
R65,66, 25,26	R2EDSJ122A	Carbon 1.2K ohm 1/4W ±5%	4
R13,14, 53,54	R2EDSJ153A	Carbon 15K ohm 1/4W ±5%	4
R01,02, 41,42	R2EDSJ242A	Carbon 2.4K ohm 1/4W ±5%	4
R61,62, 21,22	R2EDSJ302A	Carbon 3K ohm 1/4W ±5%	4
R37,38	R2EDSJ331A	Carbon 330 ohm 1/4W ±5%	2
R77,78	R2EDSJ361A	Carbon 360 ohm 1/4W ±5%	2
R17,18, 57,58	R2EDSJ393A	Carbon 39K ohm 1/4W ±5%	4
R05,06, 45,46	R2EDSJ432A	Carbon 4.3K ohm 1/4W ±5%	4
R33,34	R2EDSJ471A	Carbon 470 ohm 1/4W ±5%	2
R73,74	R2EDSJ511A	Carbon 510 ohm 1/4W ±5%	2
R29,30	R2EDSJ681A	Carbon 680 ohm 1/4W ±5%	2
R09,10, 49,50	R2EDSJ682A	Carbon 6.8K ohm 1/4W ±5%	4
R69,70	R2EDSJ751A	Carbon 750 ohm 1/4W ±5%	2

PARTS LIST

Ref. No.	Part No.	Description	Q'ty
tone bass assy			
75	131 0 4001 59400	Tone bass PCB assy	1
	4 2229 24450	VR 100K MN, Balance	1
	4 2319 33770	Switch Rotary, Bass	2
	4 2319 33780	Switch Rotary, Loudness	1
	4 2379 21340	Connector 1P	14
	4 2379 21360	Terminal, Mode, Volume	2
	4 2379 21380	Connector 5P, Bass	2
C19,20, 45,46	C1HFAJ124A--	Mylar 0.12MF 50V ±5%	4
C17,18, 43,44	C1HFAJ224A--	Mylar 0.22MF 50V ±5%	4
C25,26, 51,52	C1HFAJ333A--	Mylar 0.033MF 50V ±5%	4
C09,10, 35,36	C1HFAJ393A--	Mylar 0.039MF 50V ±5%	4
C01,02, 27,28	C1HFAJ394A--	Mylar 0.39MF 50V ±5%	4
C23,24, 49,50	C1HFAJ473A--	Mylar 0.047MF 50V ±5%	4
C05,06, 31,32	C1HFAJ563A--	Mylar 0.056MF 50V ±5%	4
C21,22, 47,48	C1HFAJ683A--	Mylar 0.068MF 50V ±5%	4
C53,54, 55,56, 57,58, 59,60, 61,62, 63,64, 65,66, 67,68, 69,70	C1HFAK102A--	Mylar 0.001MF 50V ±10%	4
C73,74, 75,76, 77,78, 79,80, 81,82, 83,84, 85,86, 87,88, 89,90	C1HFAK333A--	Mylar 0.033MF 50V ±10%	18
C71,72	C1HSBJ501A--	Styrol 500PF 50V ±5%	2
C11,12, 13,14, 37,38, 39,40	C1VTRK105A--	Tantal 1MF 35V ±10%	8
C15,16, 41,42	C1VTRK155A--	Tantal 1.5MF 35V ±10%	4
C03,04, 29,30	C1VTRK474A--	Tantal 0.47MF 35V ±10%	4
C07,08, 33,34	C1VTRK684A--	Tantal 0.68MF 35V ±10%	4
R43,44, 45,46, 47,48, 49,50, 51,52, 53,54, 55,56, 57,58, 59,60, 61,62	R2BDPJ472A	Carbon 4.7K ohm 1/8W ±5%	20
R63,64	R2BDPJ822A	Carbon 8.2K ohm 1/8W ±5%	2
R41,42	R2EDSJ102A	Carbon 1K ohm 1/4W ±5%	2
R13,14	R2EDSJ113A	Carbon 11K ohm 1/4W ±5%	2
R25,26	R2EDSJ152A	Carbon 1.5K ohm 1/4W ±5%	2
R15,16	R2EDSJ183A	Carbon 18K ohm 1/4W ±5%	2
R23,24	R2EDSJ272A	Carbon 2.7K ohm 1/4W ±5%	2
R17,18	R2EDSJ273A	Carbon 27K ohm 1/4W ±5%	2
R29,30	R2EDSJ331A	Carbon 330 ohm 1/4W ±5%	2
R19,20	R2EDSJ393A	Carbon 39K ohm 1/4W ±5%	2
R21,22, 11,12	R2EDSJ432A	Carbon 4.3K ohm 1/4W ±5%	4
R01,02, 03,04, 05,06, 07,08,	R2EDSJ474A	Carbon 470K ohm 1/4W ±5%	20

Ref. No.	Part No.	Description	Q'ty
tone bass assy			
09,10, 31,32, 33,34, 35,36, 37,38, 39,40			
R27,28	R2EDSJ681A	Carbon 680 ohm 1/4W ±5%	2
R65,66, 67,68, 69,70, 71,72, 73,74, 75,76, 77,78, 79,80, 81,82	R2EDUJ223A	Carbon 22K ohm 1/4W ±5%	18
	131 2 4006 05900	Wire assy 1P, Tone treble PCB L-1	1
	131 2 4006 05901	Wire assy 1P, Tone treble PCB R-2	1
ACCESSORIES			
	131 0 4004 13200	Wire shield assy	1
	131 6 2119 00250	Bag polyethylene exp	1
	131 6 2719 10400	Bag fan	1
	131 6 4119 40302	Explanatory booklet	1

TONE TREBLE PCB ASSY

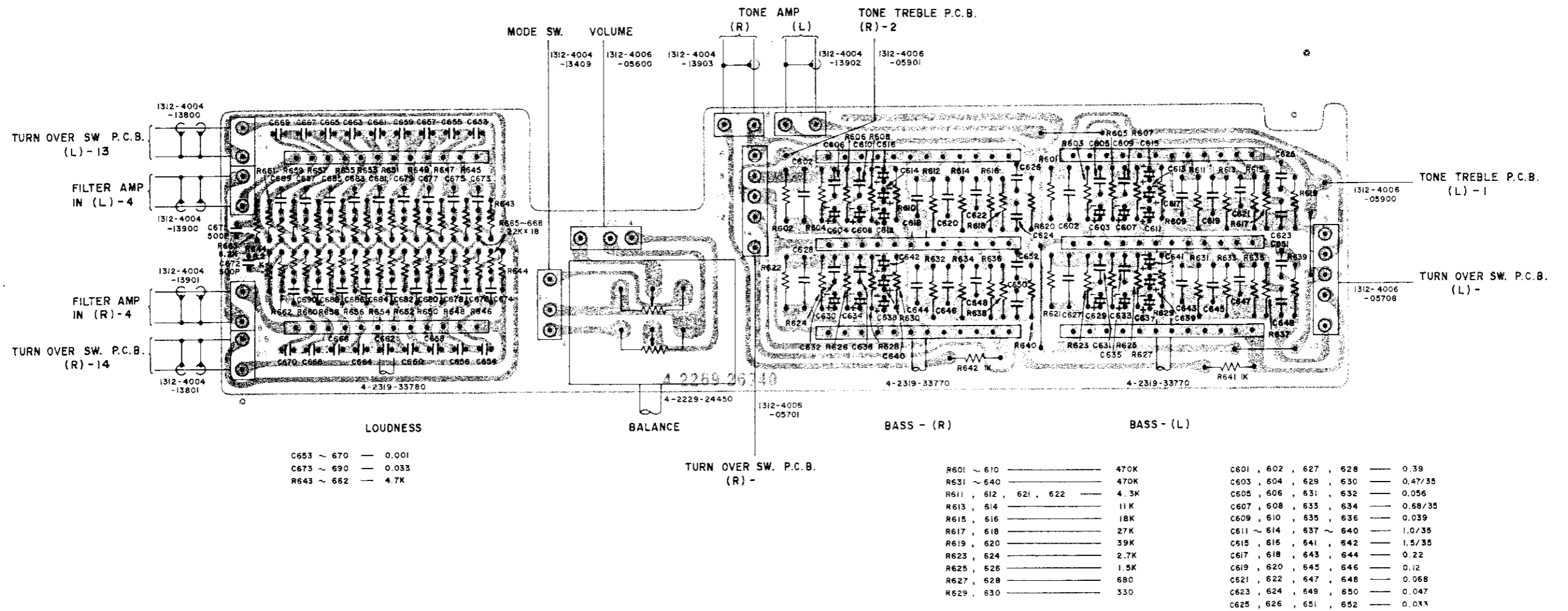


TURN OVER P.C.B.-(R)
4, 38, 40, 42

TURN OVER SW. P.C.B.-(R)
16

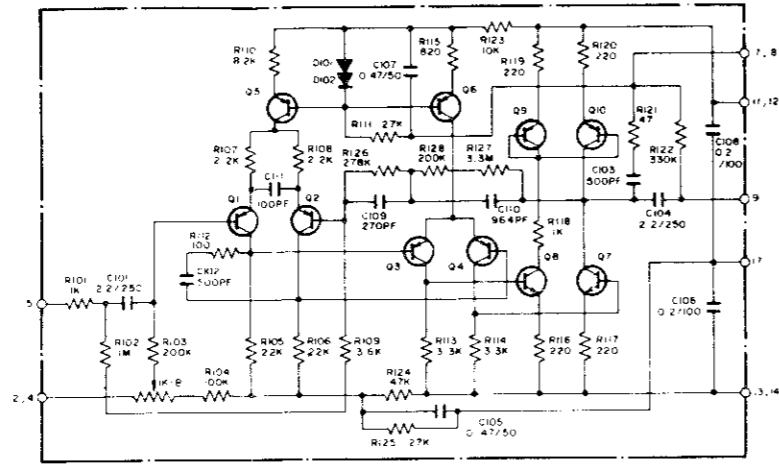
TURN OVER SW. P.C.B.-(L) 33, 37, 39, 41

TONE BASS PCB ASSY



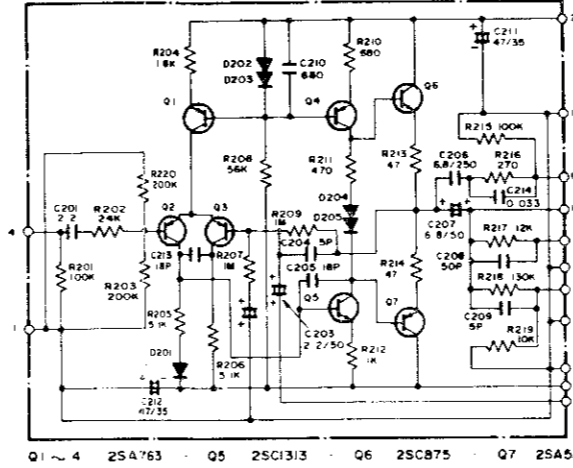
SCHEMATIC DIAGRAM

EQUALIZATION AMP
131-0-4001-59100



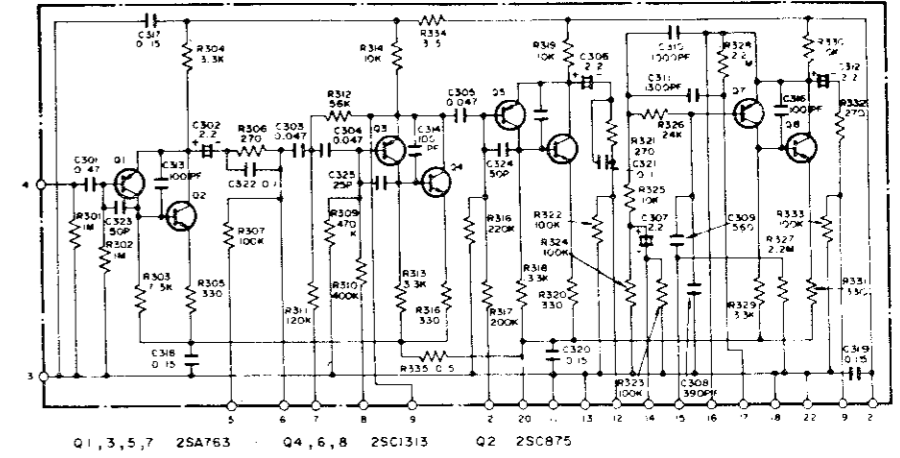
Q1 ~ 4 2SA620 WLH Q5, 6 2SA628 Q7, 8 2SC1452 Q9, 10 2SA810
D101, 102 DS-430

TONE CONTROL AMP
131-0-4001-59600



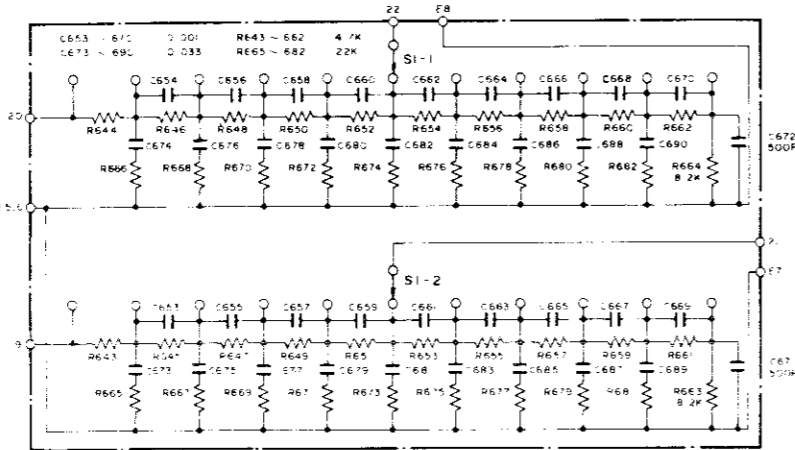
Q1 ~ 4 2SA763 Q5 2SC1313 Q6 2SC875 Q7 2SA532

FILTER AMPLIFIER
131-0-4001-59300

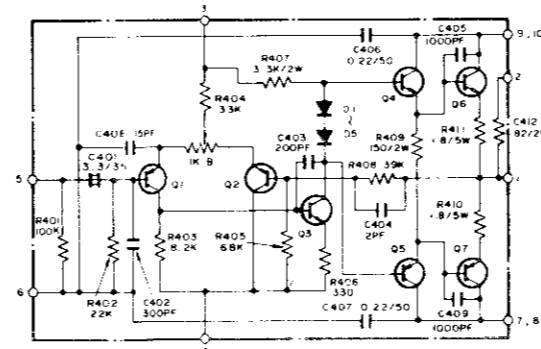


Q1, 3, 5, 7 2SA763 Q4, 6, 8 2SC1313 Q2 2SC875

LOUDNESS R/C NETWORK
3/3 131-0-4001-59400

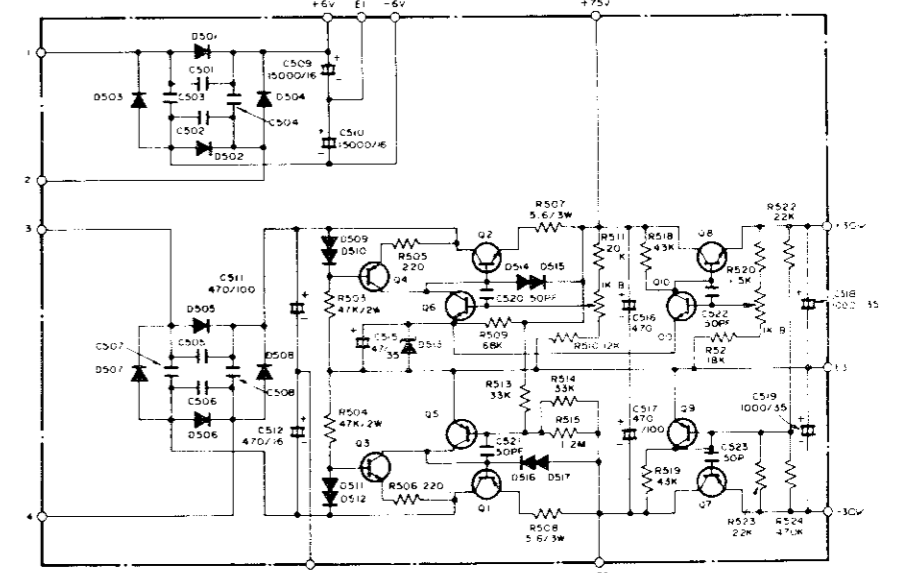


MONITOR AMP SPEAKER
131-0-4001-59200



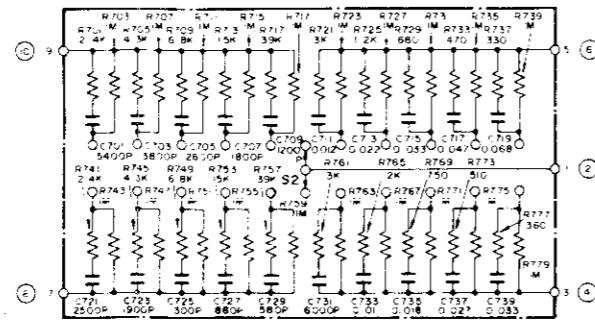
Q1, 2 2SA763 Q3 2SC875 Q4 2SC1313
Q5 2SA726 Q6 2SD315 Q7 2SB509
D1 ~ 5 DS-430

POWER SUPPLY
131-0-4001-59700

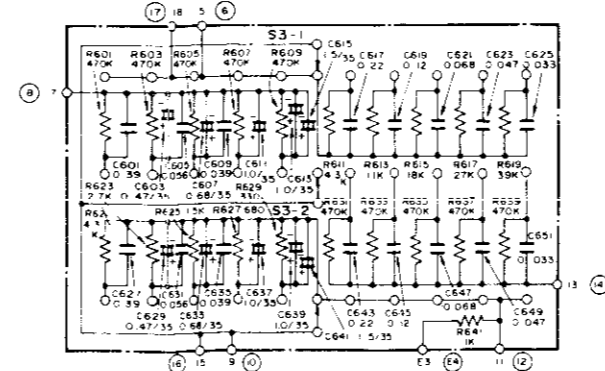


Q1 2SA765 Q2 2SC1445 Q3, 10 2SC875 Q4, 9 2SA532
Q5 2SA810 Q6 2SC875 Q7 2SB509 Q8 2SD315
D501 ~ 504 IN4002 D505 ~ 508 IN4004 D509 ~ 512 DS-430
D513 BZ-260 D514 ~ 517 DS-430

TREBLE R/C NETWORK
131-0-4001-59500

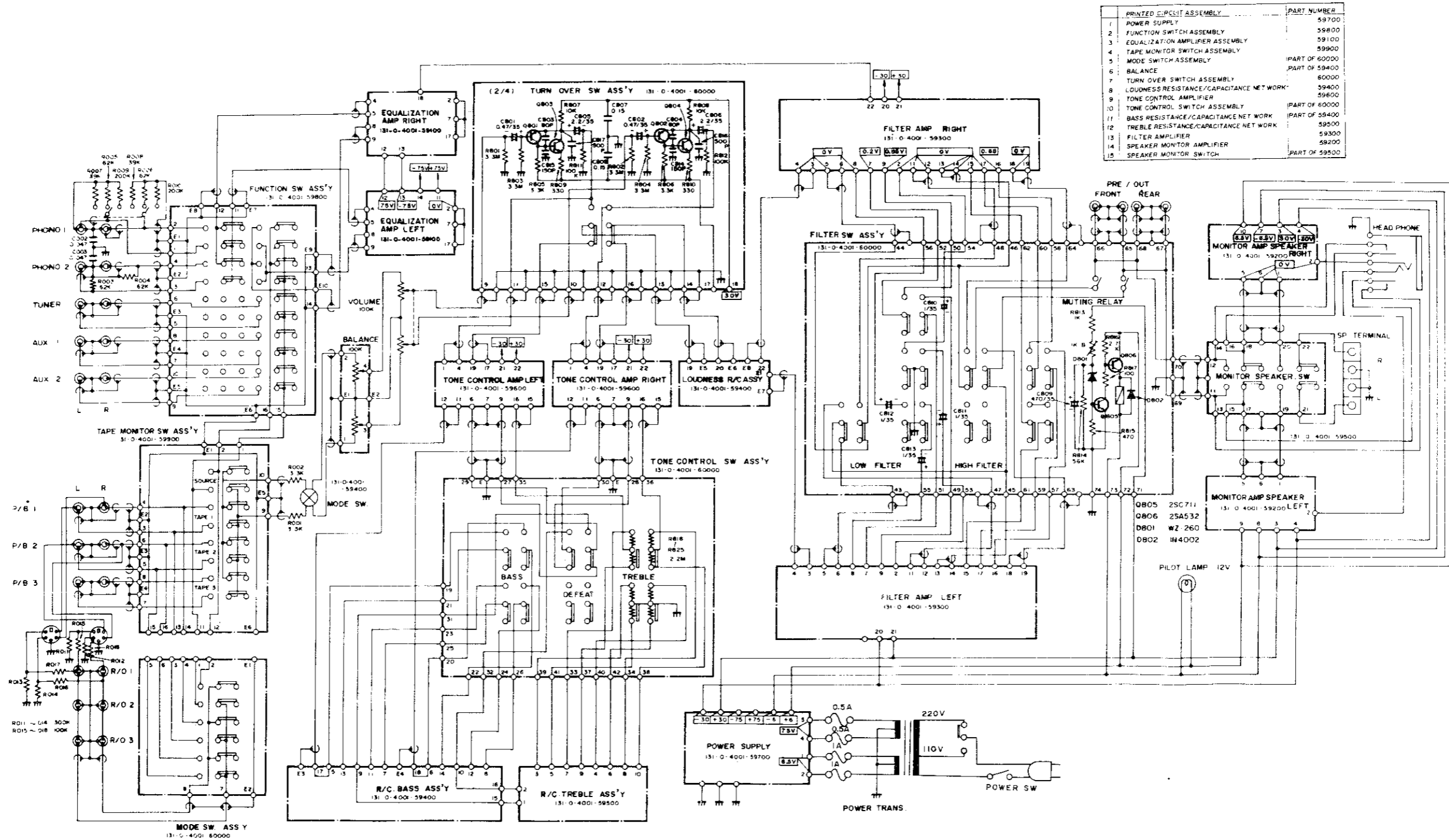


BASS R/C NETWORK
131-0-4001-59400



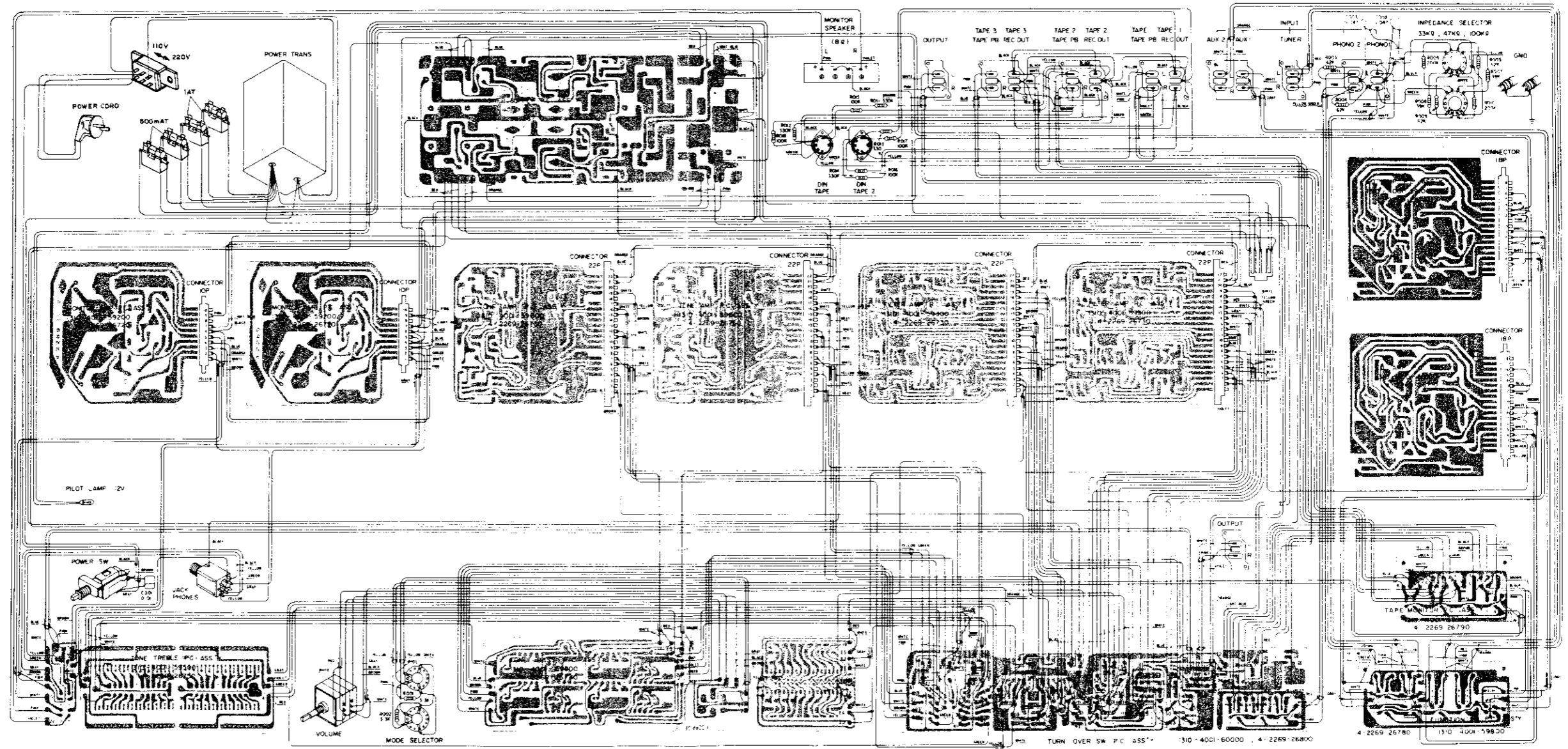
S1 : LOUDNESS CONTROL (4-2319-33780)
S2 : TREBLE CONTROL (4-2319-33760)
S3 : BASS CONTROL (4-2319-33770)

SCHEMATIC DIAGRAM



PRINTED CIRCUIT ASSEMBLY	PART NUMBER
1 POWER SUPPLY	59700
2 FUNCTION SWITCH ASSEMBLY	59800
3 EQUALIZATION AMPLIFIER ASSEMBLY	59100
4 TAPE MONITOR SWITCH ASSEMBLY	59900
5 MODE SWITCH ASSEMBLY	PART OF 60000
6 BALANCE	PART OF 59400
7 TURN OVER SWITCH ASSEMBLY	60000
8 LOUDNESS RESISTANCE/CAPACITANCE NETWORK	59400
9 TONE CONTROL AMPLIFIER	59600
10 TONE CONTROL SWITCH ASSEMBLY	PART OF 60000
11 BASS RESISTANCE/CAPACITANCE NETWORK	PART OF 59400
12 TREBLE RESISTANCE/CAPACITANCE NETWORK	59500
13 FILTER AMPLIFIER	59300
14 SPEAKER MONITOR AMPLIFIER	59200
15 SPEAKER MONITOR SWITCH	PART OF 59500

WIRING DIAGRAM



SANYO ELECTRIC TRADING CO., LTD.
SANYO ELECTRIC CO., LTD.
OSAKA, JAPAN

WM-1399 Apr./76/500 Printed in Japan