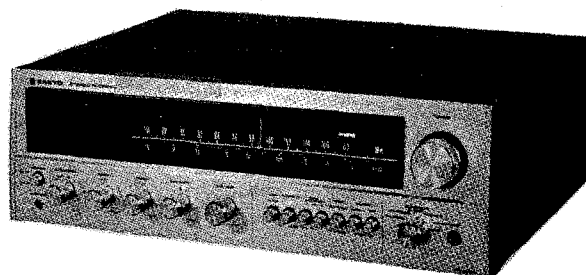




SANYO STEREO RECEIVER DCX 6000K (SEV) SERVICE MANUAL



SPECIFICATIONS

GENERAL

Transistors

2SC693 X 3, 2SA726 X 2
2SA764 X 2, 2SC536 X 8
2SC1313 X 10, 2SB511 X 1
2SC674 X 1, 2SA733 X 4
2SD325 X 2, 2SC929 X 1
2SC875 X 4, 3SK30 X 1
2SC1175 X 6, 2SA659 X 2
SE3001 X 1, 2SA532 X 2
2SC1444 X 2, 2SC535 X 1
2SC930 X 6

Diodes

1S188 X 9, RD24A-N X 1
RD-13A X 1, RD24A-M X 1
DS-430 X 4

Silicon rectifiers

Power source

Power consumption

Dimmension (approx.)

S3RC40 X 1, S3RC40R X 1
AC 110, 220V
160 W
455 (W) X 340 (D) X 148 (H) mm
17-15/16" X 13-3/8" X 5-7/8"
11.5 kg 25.1 lbs.

Weight (approx.)

FM TUNER SECTION

Frequency Range

IF

Antenna Impedance

88 - 108 MHz
10.7 MHz
300 ohms balanced
75 ohms unbalanced

30 dB S/N Sensitivity

Usable Sensitivity (IHF)

Capture Ratio

Image Rejection

IF Rejection

AM Suppression

Signal to Noise Ratio

Harmonic Distortion

2.5 μ V
2.5 μ V
2.5 dB
80 dB (98 MHz)
95 dB (98 MHz)
50 dB (98 MHz)
70 dB (98 MHz)
Mono: 0.3 % (100 % Mod.)
Stereo: 0.5 % (100 % Mod.)

Stereo Separation

Selectivity (IHF)

35 dB
60 dB

AM TUNER SECTION

Frequency range

20 dB S/N Sensitivity

535 - 1,605 kHz
300 μ V/m

Usable Sensitivity (IHF)

Image Rejection

IF Rejection

Signal to Noise Ratio

Selectivity

250 μ V/m

45 dB

35 dB

45 dB

25 dB

AUDIO AMPLIFIER SECTION

Total music power

Continuous power

85W

35W each channel drive

30W both channel drive

Total harmonic distortion

(35W output power)

Power band width

1 watt frequency response

Hum and noise

Input sensitivity & impedance

0.5 %

10 - 60,000 Hz

20 - 50,000 Hz

Less than 3mV

PHONO 1 2.5mV 50K ohm

PHONO 2 2.5mV 50K ohm

MIC 2.5mV 50K ohm

AUX 180mW 100K ohm

Matching speaker impedance

Damping factor

Tone control

4 - 16 ohm (8 ohm nominal)

30 at 8 ohm, 1K Hz

Bass $\pm$ 10 dB at 100Hz

Treble $\pm$ 10 dB at 10K Hz

100 Hz $\pm$ 10 dB

10K Hz $\pm$ 6 dB

Loudness control

Low filter

Audio muting

Pre amplifier output

Main amp. input

sensitivity

Tape output sencitivity

Fc = 70 Hz (12 dB/oct)

-20 dB at 1K Hz

500mV

500mV/50K ohm

RCA 180mV

DIN 35mV

Tape input sencitivity

& impedance

Signal to noise ratio

RCA 180mV 100K ohm

DIN 180mV 100K ohm

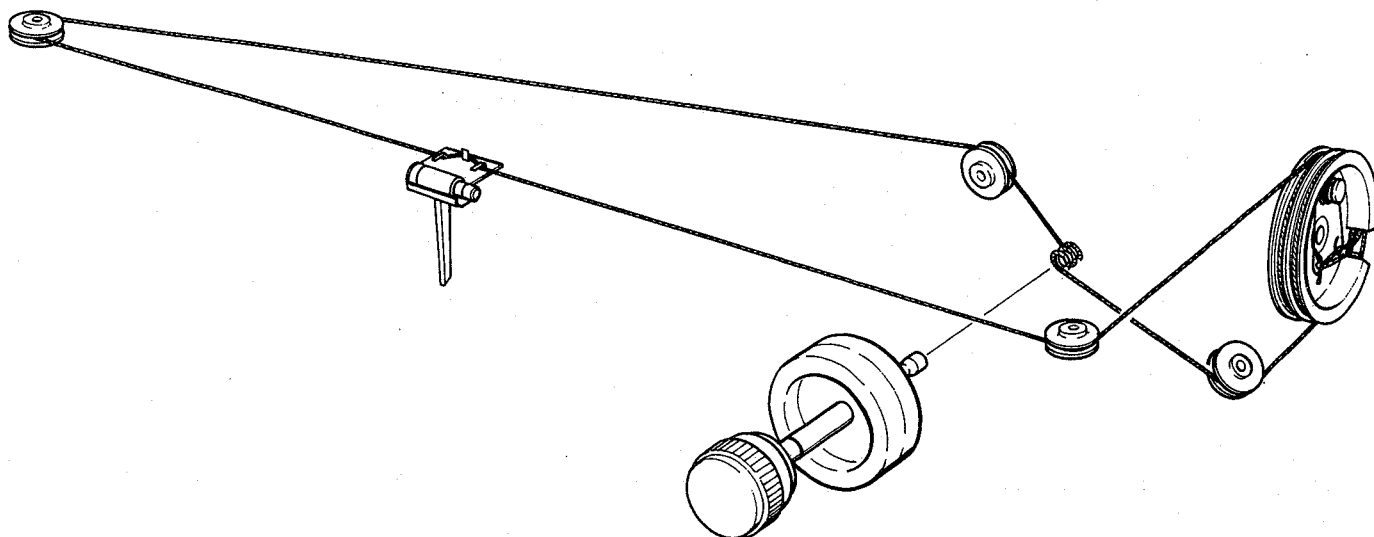
PHONO 1 more than 70 dB

PHONO 2 more than 70 dB

MIC more than 50 dB

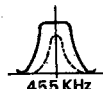
AUX more than 80 dB

DIAL CORD STRING



ADJUSTMENT

AM ADJUSTMENT

Step	Adjusting circuit	Connections		SG. Frequency	Position of tuning dial	Adjustment	V.T.V.M. Oscilloscope
		Input	Output				
1	IF	Connect sweep generator to VC7.	Connect oscilloscope to AM OUT (TP 2)	455 KHz	Near max. capacity of VC. at position with no unrequired signal.	1st 9-20970 AM 2nd 9-21020 3rd 9-21030	 455 KHz
2	RF	Connect standard loop antenna to output terminal of SG. Place the unit 2 feet from loop antenna.	Connect V.T.V.M. to AM OUT	600 KHz (400 Hz, 30% modulation)	600 KHz	AM ANT 9-21022 AM OSC 9-20740 RF COIL 9-20291	Max.
3				1400 KHz (400 Hz, 30% modulation)	1400 KHz	TC5 TC6 TC7	Max.
4	Repeat adjustments.						

PREPARE

1. Variable capacitor completely closed.
2. Set the dial pointer to very left line dial scale.
3. Connect sweep generator, SG, V.T.V.M. and oscilloscope.
4. Selector switch to "AM"
5. Use a screwdriver with plastic grip for all adjustments.

FM ADJUSTMENT

Step	Adjusting circuit	Connections		SG. frequency	Position of tuning dial	Adjustment	V.T.V.M. Oscilloscope
		Input	Output				
1	IF	Connect sweep generator to test point of the FRONT END through 0.01 μ F.	Connect oscilloscope to FRONT END	10.7 MHz (non modulation)	Near max. capacity of VC. at f position with no unrequired signal.	IFT of the FRONT END	 10.7 MHz
2	Ratio Det.		Connect oscilloscope to FM OUT			FM DET 9-21000	 10.7 MHz
3	RF	Connect FM SG. to FM ANT. terminals.	Connect V.T.V.M. to speaker terminal.	90 MHz (400 Hz, 30% modulation)	90 MHz	FM ANT COIL FM OSC COIL 1st RF COIL 2nd RF COIL	Max.
4				106 MHz (400 Hz, 30% modulation)	106 MHz	TC1 TC2 TC3 TC4	Max.
5	Repeat adjustments.						

PREPARE

1. Variable capacitor completely closed.
2. Set the dial pointer to very left line of dial scale.
3. Connect sweep generator, FM SG, V.T.V.M. and oscilloscope.
FM antenna input impedance is 300 ohm.
4. Selector switch to "FM"
5. Use a screwdriver with plastic grip for all adjustments.

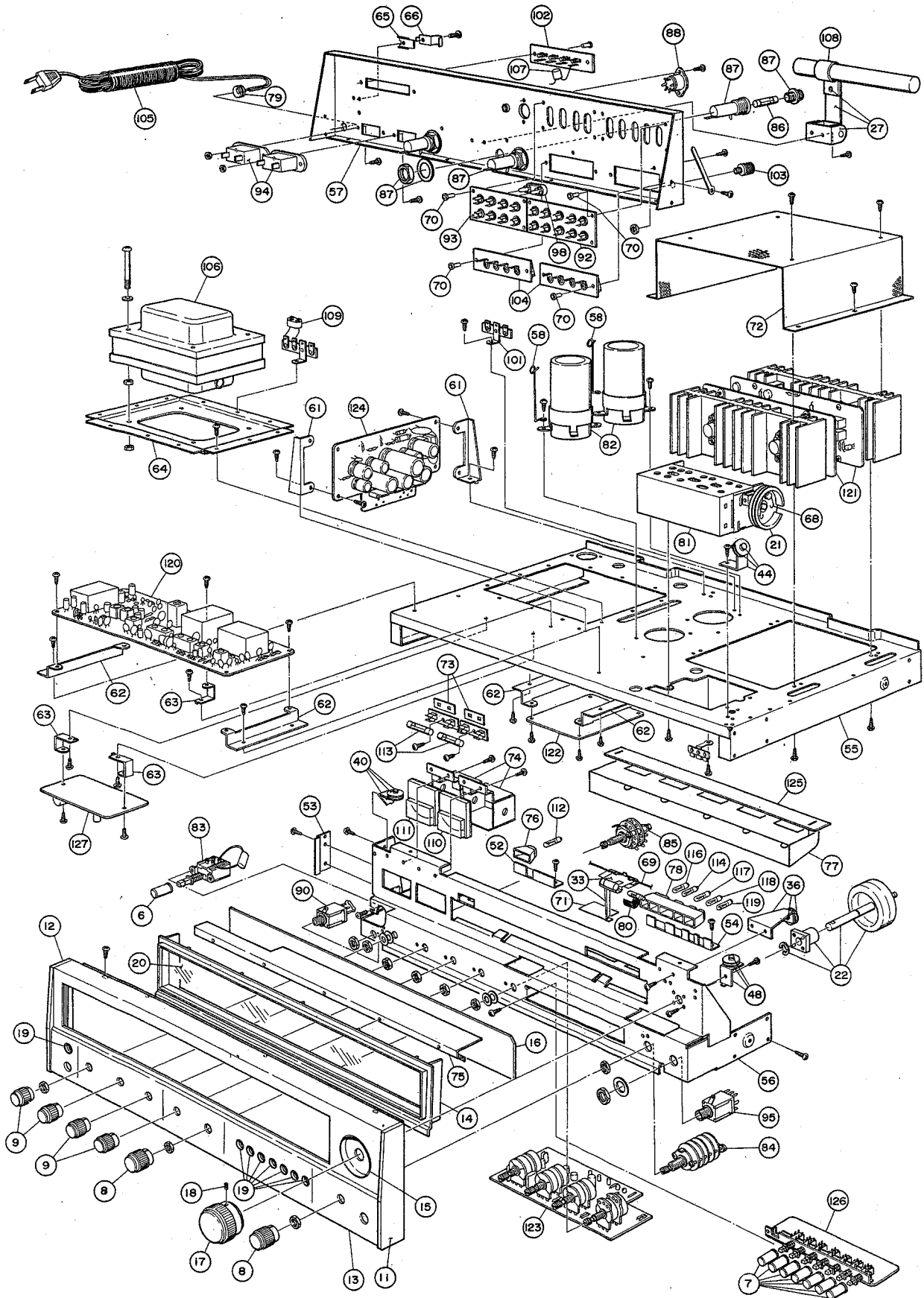
FM MPX ADJUSTMENT

Step	Adjusting circuit	Connections		Position of tuning dial	Adjustment	V.T.V.M.
		Input	Output			
1	19 KHz pilot signal	Connect FM stereo SG. to FM ANT terminals. 19 KHz signal ON. SCA signal OFF.	Connect V.T.V.M. to test point PIN No. 1 of IC (LA3300)	Near max. capacity of VC. at position with no unrequired signal.	19 KHz 9-20210 (Black)	Max.
2	38 KHz	Connect FM stereo SG to FM ANT terminals. 19 KHz signal ON Main channel, sub channel signal ON.	Connect V.T.V.M. to test point PIN No. 13 of IC (LA3300)		38 KHz 9-20220 (White)	Max.
3	FM stereo signal separation	Add 1000Hz signal from L Ch.	Connect V.T.V.M. to R output		Separation control VR-1	Min.
4		Connect FM stereo SG to FM ANT terminals. 19 KHz signal ON. Main channel, sub channel signal ON. Add 1000Hz signal from R Ch.	Connect V.T.V.M. to L output		38 KHz ①Set the pre-set resistor (1K-B) connected to PIN No. 5 of IC401 to the minimum position. ②Adjust the pre-set resistor so that sine wave appeared at output becomes clear and minimum	Min.
5	Repeat steps 3~4. Set at position with max. channel separation.					

PREPARE

1. Variable capacitor completely closed.
2. Connect FM stereo SG. and V.T.V.M.
3. Selector switch to "FM AUTO"
4. Use a screwdriver with plastic grip for all adjustments.

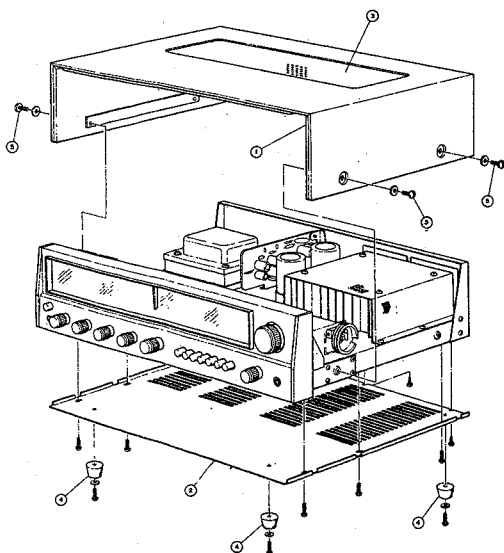
EXPLODED VIEW



PARTS LIST

Key. No.	Part No.	Description	Q'ty
PACKING			
	4 2449 20230	Antenna FM	1
	131 6 1139 43002	Box, corrugate, exp	1
	131 6 2119 00850	Bag, polyethylen, exp	1
	131 6 2719 10300	Bag, fan	1
	131 6 3009 17640	Pad	2
	131 6 4119 33201	Explanatory booklet	1
	131 6 4559 10100	Manufacturing No.	1
CABINET			
1	131 2 1101 22501	Cabinet	1
2	131 2 1105 14000	Plate, Bottom	1
3	131 2 1312 11001	Grill	1
4	131 2 1804 10600	Leg, Rubber	4
5	101 3 1504 01600	Screw, Truss hd, 4 x 16, Cabinet	4
	131 2 4203 84204	Washer, 4.2 x 14 x 1.0 cabinet	4
	131 2 4203 84205	Washer, 4.2 x 10 x 1.0 leg	4
	101 3 1104 01003	Screw, pan hd, 4 x 10, plate bottom	6
	101 3 1104 01203	Screw, pan hd, Leg rubber	4
	102 3 1203 00602	Screw, pan hd tapping 3 x 4, plate bottom	4
6	131 0 1001 23300	Knob assy, power	1
7	131 0 1001 23400	Knob assy, push	7
8	131 0 1001 23500	Knob assy, VR, function	2
9	131 0 1001 23600	Knob assy, SP, balance, bass, treble	4
	131 0 1016 16600	Panel, decorate assy	1
11	131 2 1311 32800	Sash, right	1
12	131 2 1311 32801	Sash, left	1
13	131 2 1203 26800	Panel, control	(1)
14	131 2 1116 11700	Frame	1
15	131 2 1116 11800	Frame	1
16	131 2 1201 23301	Plate, dial	1
17	131 2 1601 26400	Knob, tuning	1
18	131 2 4201 12400	Screw, tuning knob	1
19	131 2 6111 12600	Bushing	8
20	131 2 6308 15000	Filter	1

EXPLODED VIEW



Key. No.	Part No.	Description	Q'ty
CHASSIS			
21	131 0 3002 10800	Drum assy	1
22	131 0 3003 15400	Shaft assy, dial	1
	131 2 4102 16100	Shaft, dial	(1)
	131 2 4114 10800	Bearing	1
	131 2 4116 10400	Flywheel	1
	131 2 4206 10500	Ring E	1
27	131 0 3008 11700	Support assy, antenna	1
	131 2 3603 13300	Metal mount, antenna	1
	131 2 3603 13400	Metal mount, antenna	1
	131 2 3602 11900	Holder, antenna	1
	131 2 6111 12300	Bushing	2
	107 3 1103 00801	Rivet	3
	131 2 4203 83204	Washer 3.2 x 10 x 0.8	3
	101 3 1103 01009	Screw, pan hd tapping 3 x 10	1
	104 3 1103 00005	Nut, hex. 3	1
33	101 0 3011 13600	Pointer assy	1
	131 2 4101 16000	Pointer	1
	131 2 4113 11700	Metal Slide, pointer	1
36	131 0 3020 02000	Pully assy	1
	131 2 4106 14700	Metal mount, pulley	1
	131 2 4108 10400	Spindle, pulley	1
	131 2 4107 10300	Pulley	1
40	131 0 3020 02300	Pully assy	1
	131 2 4106 15000	Metal mount, pulley	1
	131 2 4108 10400	Spindle, Pulley	1
	131 2 4107 10300	Pulley	1
44	131 0 3020 02500	Pully assy	1
	131 2 4106 15200	Metal mount, pulley	1
	131 2 4108 10400	Spindle, Pulley	1
	131 2 4107 10300	Pulley	1
48	131 0 3020 02600	Pully assy	1
	131 2 4106 15300	Metal mount, pulley	1
	131 2 4108 10400	Spindle, pulley	1
	131 2 4107 10300	Pulley	1
52	131 2 3101 19700	Metal mount, FM stereo ind.	1
53	131 2 3101 19900	Metal mount, plate dial	1
54	131 2 3101 20600	Metal mount, function ind.	1
55	131 2 3301 18801	Chassis	1
56	131 2 3305 16100	Panel, front	1
57	131 2 3306 16002	Panel, rear	1
58	131 2 3608 11200	Cramp wire, ANT, pointer lead	2
	131 2 3608 11700	Cramp wire	10
	131 2 3608 11701	Cramp wire	10
61	131 2 3614 13300	Mount, power P.C.B.	2
62	131 2 3614 15000	Mount, IF, EQ, P.C.B.	4
63	131 2 3614 15100	Mount, IF, muting P.C.B.	3
64	131 2 3617 12700	Metal mount, trans	1
65	131 2 3621 00400	Metal, cramp wire	1
66	131 2 3621 00500	Metal, cramp wire	1
68	131 2 4111 00300	Spring, rope	1
69	131 2 4112 10200	Rope 0.5φ	1
70	131 2 4221 00100	Rivet	14
71	131 2 5205 12000	Cushion, nylon	1
	131 2 6103 13000	Cover shield	1
73	131 2 6107 13900	Plate sever, meter lamp holder	2
74	131 2 6110 19900	Shelter light, tuning meter	2
75	131 2 6110 20000	Shelter light, frame up	1
76	131 2 6110 20100	Shelter light, FM stereo ind.	1
77	131 2 6110 20900	Shelter light, plate dial	1
78	131 2 6110 21000	Shelter light, function ind.	1
79	131 2 6111 11300	Bushing	1
80	131 2 6308 14200	Filter, pointer lamp	1
	101 3 1103 00603	Screw, pan hd. 3 x 6	2
	101 3 1103 01001	Screw, pan hd. 3 x 10	4
	103 3 1604 01001	Screw, binding hd. 4 x 10	1
	102 3 1203 00604	Screw, pan hd. tapping 3 x 6	13
	102 3 1203 00602	Screw, pan hd. tapping 3 x 6	83
	102 3 1203 01204	Screw, pan hd. tapping 3 x 12	8
	104 3 1204 00000	Nut hex. 4	4
	131 2 1110 13100	Plate, Decorate	1
	131 2 4106 13100	Metal mount, pulley	1
	131 2 7103 13410	Label	1
	131 2 7103 13411	Label	2
	131 2 7103 17800	Label, Panel pear	1
	131 2 7104 00101	Plate pad, switch	1

- NOTES: 1. Part orders must contain Model Number, Part Number and Description.
 2. Unless otherwise noted, component parts indicated by parentheses in the column Q'ty are not available.
 3. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

PARTS LIST

Key No.	Part No.	Description	Q'ty
ELECTRICAL PARTS			
81	4 1259 20280	Front end	1
82	4 2239 20550	Electric capacitor 4700 μ F 50V	2
83	4 2319 23090	C902, C903	1
84	4 2319 23170	Switch, power	1
85	4 2319 23180	Switch, rotary function	1
86	4 2319 21531	Switch, rotary speaker	1
87	4 2359 20160	Switch, slide 6P	1
88	4 2359 20190	Fuse holder	2
	4 2359 20200	Socket, 5P DIN	1
	4 2359 21080	Socket	3
90	4 2359 21240	Jack, headphone	1
92	4 2359 21260	Socket, phono 10P, input, tape	1
93	4 2359 21020	Socket, phono 8P, tape 2, pre out. main in	1
	4 2359 21670	Socket	3
95	4 2349 20580	Jack, microphone	1
86	4 2349 20590	Fuse 3.15A	1
	4 2369 20520	Fuse 4A	2
98	4 2379 20490	Plug, connector	2
	4 2379 20150	Terminal lug 1-1P	1
101	4 2379 20400	Terminal, base	1
102	4 2379 21050	Terminal lug 3P DIN	1
103	4 2379 21060	Terminal, antenna	1
104	4 2379 21210	Terminal	1
105	4 2439 20521	Terminal SP 4P	2
106	4 2519 22881	Power cord	1
107	4 2539 20121	Power trans	1
108	4 2579 21022	IF trap	2
109	4 2599 20300	Bar antenna, AM	1
110	4 5119 20342	Balun	1
111	4 5119 20351	Meter, signal	1
112	4 6129 20147	Meter, tuning	1
113	4 6129 20280	Stereo ind. lamp 6.3V 25mA	1
114	4 6129 20302	Pilot lamp, meter	2
116	4 6129 20370	Pilot lamp, FM	1
117	4 6129 20371	Pilot lamp, AM	1
118	4 6129 20372	Pilot lamp, phono	1
119	4 6129 20373	Pilot lamp, mic	1
	131 0 4006 00100	Pilot lamp, AUX	1
		Plug photex	1
		(CAPACITORS)	
C904,905		P.P 0.01 μ F $\pm$ 20% 630V	2
906,907		Ceramic 0.04 μ F $\pm$ 20% 50V	4
		(RESISTORS)	
R905,906		Carbon 470 ohm $\pm$ 10% $\frac{1}{4}$ W	2
R903,904		Carbon 100K ohm $\pm$ 10% $\frac{1}{4}$ W	2
R901,902		Carbon 390K ohm $\pm$ 10% $\frac{1}{4}$ W	2
IF, MPX P.C.B. ASSY			
120	131 0 4001 41800	IF MPX P.C.B. assy	1
	4 2229 22950	Variable resistor, separation	1
	4 2279 20150	Low pass filter	1
	4 2569 20970	IF trans, AM 1st	1
	4 2569 21000	IF trans, FM discr	1
	4 2569 21020	IF trans, AM 2nd.	1
	4 2569 21030	IF trans, AM	1
	4 2569 21100	FM IF filter	2
	4 2589 20740	AM OSC coil	1
	4 2599 20291	AM RF coil	1
	4 2659 20210	Multiplex coil 19K Hz	1
	4 2659 20220	Multiplex coil 38 K Hz	1
		(CAPACITORS)	
C202		Ceramic 10PF $\pm$ 0.5pF 50 WV	1
C255,221		Ceramic 15PF $\pm$ 10% 50 WV	2
C244		Ceramic 20PF $\pm$ 10% 50 WV	1
C218		Ceramic 100PF $\pm$ 10% 50 WV	1
C215,216		Ceramic 200PF $\pm$ 10% 50 WV	2
C206,207		Ceramic 0.001 μ F $\pm$ 10% 50 WV	6
208,210			
211,212			
C232		Mylar 0.001 μ F $\pm$ 20% 50 WV	1
C249		Mylar 0.0047 μ F $\pm$ 20% 50 WV	1
C238,239		Mylar 0.018 μ F $\pm$ 5% 50 WV	2
C236,237		Electrolytic 1 μ F 10V	2

Key No.	Part No.	Description	Q'ty
IF, MPX P.C.B. ASSY			
C227,228		Electrolytic 4.7 μ F 6V	4
229,235			
C217,233		Electrolytic 10 μ F 10V	6
234,240			
241,257			
C264		Electrolytic 47 μ F 6V	1
C220		Electrolytic 100 μ F 16V	1
C248		Styrol 430pF $\pm$ 10% 50V	1
C256		Styrol 820pF $\pm$ 10% 50V	1
C260		Styrol 1000PF $\pm$ 10% 50V	1
C231		Styrol 2500pF $\pm$ 10% 50V	1
C230		Styrol 10000PF $\pm$ 10% 50V	1
C226		Alsicon 0.2 μ F $\pm$ 20% 10V	1
C201,203		Ceramic 0.01 μ F +80 -20% 50V	18
204,205			
209,213			
214,222			
223,224			
225,242			
243,245			
246,262			
263,247			
C219,250		Ceramic 40000PF +80 -20% 50V	10
251,252			
253,254			
258,259			
261,247			
C265		Alsicon 1 μ F $\pm$ 20% 10V	1
		(RESISTORS)	
R207,213		Carbon 100 ohm $\pm$ 10% $\frac{1}{4}$ W	8
222			
225,259			
267,275			
280			
R219		Carbon 180 ohm $\pm$ 10% $\frac{1}{4}$ W	1
R229,285		Carbon 220 ohm $\pm$ 10% $\frac{1}{4}$ W	2
R271		Carbon 270 ohm $\pm$ 10% $\frac{1}{4}$ W	1
R203,270		Carbon 330 ohm $\pm$ 10% $\frac{1}{4}$ W	2
R241,261		Carbon 470 ohm $\pm$ 10% $\frac{1}{4}$ W	3
279			
R206,214		Carbon 560 ohm $\pm$ 10% $\frac{1}{4}$ W	2
R205,258		Carbon 680 ohm $\pm$ 10% $\frac{1}{4}$ W	3
278			
R204,210		Carbon 1K ohm $\pm$ 10% $\frac{1}{4}$ W	11
211,212			
217,218			
220,221			
242,265			
282			
R239,255		Carbon 1.2K ohm $\pm$ 10% $\frac{1}{4}$ W	2
R254		Carbon 1.2K ohm $\pm$ 10% $\frac{1}{4}$ W	1
R268		Carbon 1.5K ohm $\pm$ 10% $\frac{1}{4}$ W	1
R235		Carbon 1.8K ohm $\pm$ 10% $\frac{1}{4}$ W	1
R228,260		Carbon 2.2K ohm $\pm$ 10% $\frac{1}{4}$ W	3
230			
R227,244		Carbon 3.3K ohm $\pm$ 10% $\frac{1}{4}$ W	6
245,246			
247,264			
R240,253		Carbon 3.9K ohm $\pm$ 10% $\frac{1}{4}$ W	2
R252		Carbon 3.9K ohm $\pm$ 10% $\frac{1}{4}$ W	1
R243,263		Carbon 4.7K ohm $\pm$ 10% $\frac{1}{4}$ W	3
272			
R202,231		Carbon 5.6K ohm $\pm$ 10% $\frac{1}{4}$ W	4
233,281			
R234		Carbon 5.6K ohm $\pm$ 10% $\frac{1}{4}$ W	1
R209,216		Carbon 6.8K ohm $\pm$ 10% $\frac{1}{4}$ W	6
223,224			
266,276			
R269,273		Carbon 10K ohm $\pm$ 10% $\frac{1}{4}$ W	3
283			
R286		Carbon 12K ohm $\pm$ 10% $\frac{1}{4}$ W	1
R208,215		Carbon 15K ohm $\pm$ 10% $\frac{1}{4}$ W	2
R201,226		Carbon 22K ohm $\pm$ 10% $\frac{1}{4}$ W	3
262			
R237,251		Carbon 33K ohm $\pm$ 10% $\frac{1}{4}$ W	2
R250		Carbon 33K ohm $\pm$ 10% $\frac{1}{4}$ W	1
R274,277		Carbon 56K ohm $\pm$ 10% $\frac{1}{4}$ W	3
284			
R236,256		Carbon 100K ohm $\pm$ 10% $\frac{1}{4}$ W	2

- Notes: 1. Parts orders must contain Model Number, Part Number and Description.
2. Unless otherwise noted, component parts indicated by parentheses in the column Q'ty are not available.
3. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

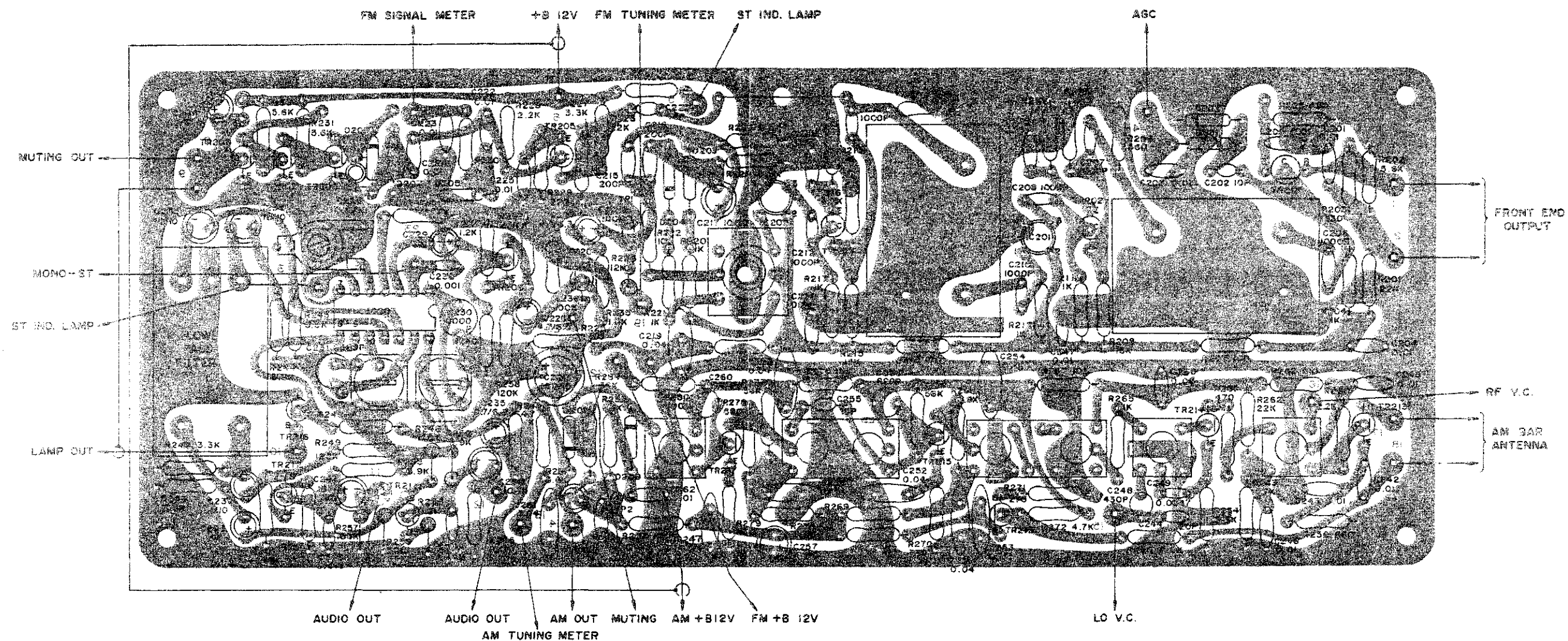
IS188	
L33300	D201 ~ D209
LA121	IC203
ZSC929	IC201 ~ IC202
ZSC674	TR214
ZSC693	TR213
ZSC696	TR209, TR211, TR212
ZSC636	TR204, TR206 ~ TR208, TR210, TR216
ZSC930	TR201 ~ TR203, TR205, TR215, TR217

1. BASE	25C930
2. COLLECTOR	25C936
3. EMITTER	25C693
2. + B	25C674
3. INPUT	25C929
4. EARTH	
	LA1221

TOP VIEW

1 2 3 4 5 6 7 8 9 10 11 12 13 14

LA3300



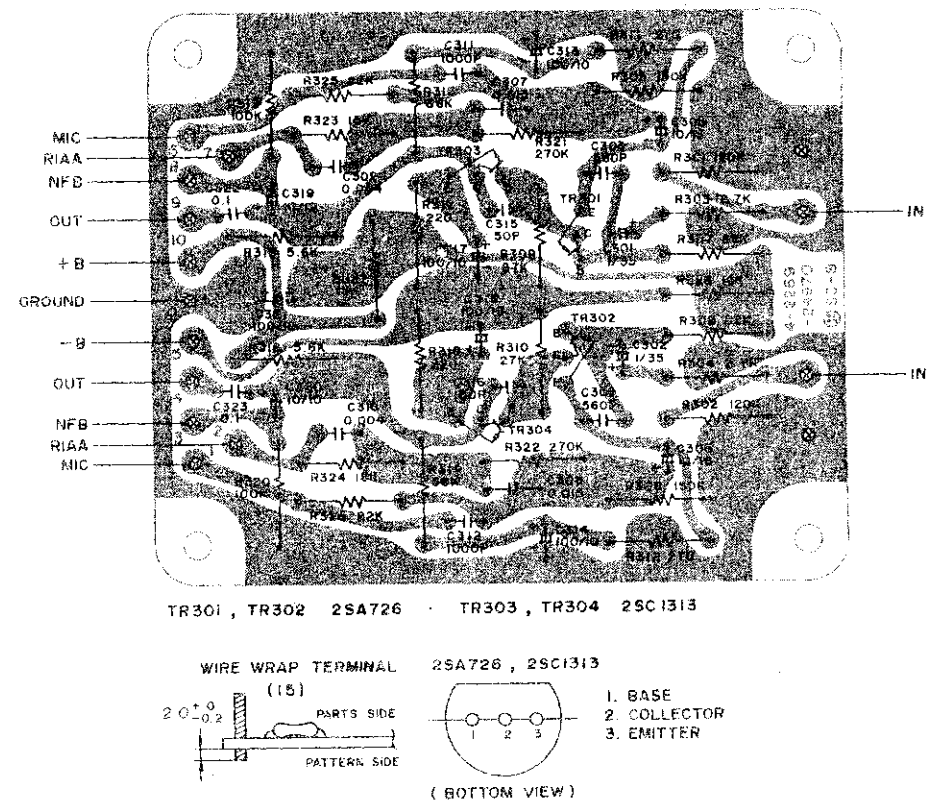
TR201 ~ TR203, TR205, TR215, TR217	2SC930
TR204, TR206 ~ TR208, TR210, TR216	2SC536
TR209, TR211, TR212	2SC693
TR213	2SC674
TR214	2SC929
IC201, IC202	LA1221
IC203	LA3300
Q201 ~ Q209	1S188

PARTS LIST

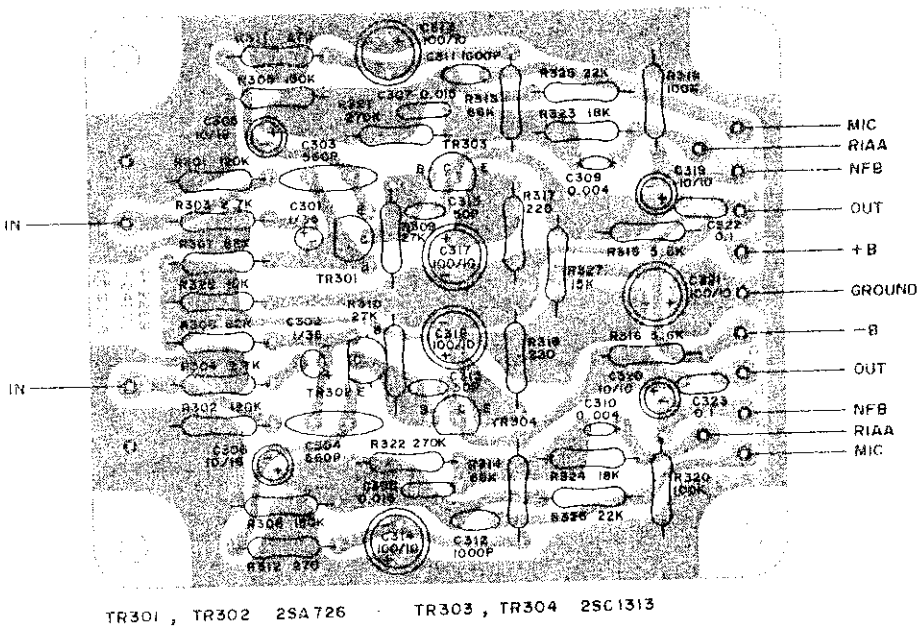
Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
IF, MPX P.C.B. ASSY				EQUALIZER P.C.B. ASSY			
R257		Carbon 100K ohm $\pm 10\%$ $\frac{1}{4}W$	1	321		Electrolytic 10 μF 10V	2
R238,249		Carbon 120K ohm $\pm 10\%$ $\frac{1}{4}W$	2	C305,306		Electrolytic 10 μF 10V	2
R248		Carbon 120K ohm $\pm 10\%$ $\frac{1}{4}W$	1	C319,320		Ceramic 560pF $\pm 10\%$ 50V	2
		(SEMICONDUCTORS)		C303,304		Ceramic 50pF $\pm 10\%$ 50V	2
D201,202, 203,204, 205,206, 207,208, 209	202 5 9110 18820	Diode 1S188 (FM1)	9	C315,316		Mylar 0.001 μF $\pm 5\%$ 50V	2
TR213,	203 5 4500 67440	Transistor 2SC674 (D)	1	C311,312		Mylar 0.015 μF $\pm 5\%$ 50V	2
TR204,206, 207,208, 210,216	203 5 5100 53640	Transistor 2SC536 (D)	6	C307,308		Mylar 0.004 μF $\pm 5\%$ 50V	2
TR209,211, 212	203 5 5100 69361	Transistor 2SC693 (FD)	3	C322,323		Mylar 0.1 μF $\pm 10\%$ 50V	2
TR214	203 5 5500 92950	Transistor 2SC929(E)	1	C301,302		Tantal 1 μF 35V	2
TR201,202, 203,205, 215,217	203 5 5500 93040	Transistor 2SC930(D)	6			(RESISTORS)	
IC201,202	206 5 0121 22110	IC LA-1221	2	R323,324		Carbon 18K ohm $\pm 5\%$ $\frac{1}{4}W$	2
IC203	206 5 0663 30010	IC LA-3300	1	R321,322		Carbon 270K ohm $\pm 5\%$ $\frac{1}{4}W$	2
EQUALIZER P.C.B. ASSY				R328		Carbon 10K ohm $\pm 10\%$ $\frac{1}{4}W$	1
122	131 0 4001 42100	Equalizer P.C.B. assy	1	R325,326		Carbon 22K ohm $\pm 10\%$ $\frac{1}{4}W$	2
		(CAPACITORS)		R301,302,		Carbon 120K ohm $\pm 10\%$ $\frac{1}{4}W$	2
C313,314, 317,318,		Electrolytic 100 μF 10V	5	R305,306,		Carbon 150K ohm $\pm 10\%$ $\frac{1}{4}W$	2
				R319,320		Carbon 100K ohm $\pm 10\%$ $\frac{1}{4}W$	2
				R327		Carbon 15K ohm $\pm 10\%$ $\frac{1}{4}W$	1
				R317,318		Carbon 220 ohm $\pm 10\%$ $\frac{1}{4}W$	2
				R303,304		Carbon 2.7K ohm $\pm 10\%$ $\frac{1}{4}W$	2
				R309,310		Carbon 27K ohm $\pm 10\%$ $\frac{1}{4}W$	2
				R311,312		Carbon 270 ohm $\pm 10\%$ $\frac{1}{4}W$	2
				R315,316		Carbon 5.6K ohm $\pm 10\%$ $\frac{1}{4}W$	2
				R313,314		Carbon 68K ohm $\pm 10\%$ $\frac{1}{4}W$	2
				R307,308		Carbon 82K ohm $\pm 10\%$ $\frac{1}{4}W$	2
						(SEMICONDUCTORS)	
				TR301,302		Transistor 2SA726	2
				TR303,304		Transistor 2SC1313	2

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

EQUALIZER P.C. ASS'Y BOTTOM VIEW



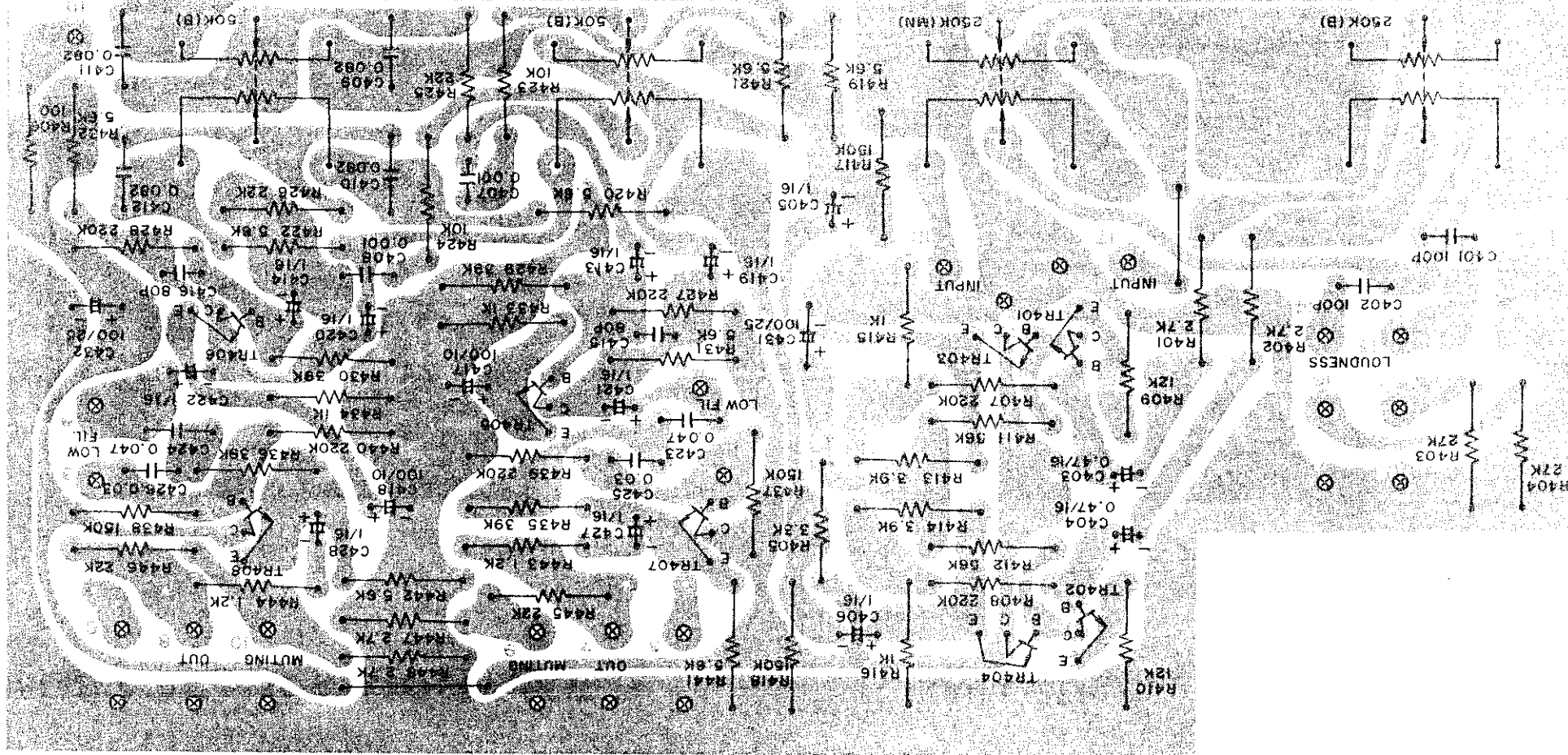
EQUALIZER P.C. ASS'Y TOP VIEW



TONE CONTROL P.C.B. ASSY				
Key No.	Part No.	Description	Qty	
123	131 0 4001 41900	Tone control P.C.B. assy	1	
R406	4 2229 23610	Variable resistor, volume	1	
	4 2229 23610	VR 250K-MIN, balance	1	
	4 2229 23620	VR 50KB-2, tone	2	
	C415,416	Ceramic 80pF ±20% 50V	2	
	C407,408	Mylar 0.001μF ±5% 50V	2	
	C425,426	Mylar 0.03μF ±5% 50V	2	
	C423,424	Mylar 0.047μF ±5% 50V	2	
	C409,410	Mylar 0.082μF ±5% 50V	4	
	411,412	Electrolytic 0.47μF 16V	2	
	C403,404	Electrolytic 1μF 16V	10	
C401,402	C405,406	Electrolytic 100μF 10V	2	
	413,414	Electrolytic 100μF 25V	2	
	421,422	Electrolytic 100pF ±5% 50V	2	
	427,428	Electrolytic 100pF ±5% 50V	2	
	C417,418	Electrolytic 100pF ±5% 50V	2	
	C431,432	Electrolytic 100pF ±5% 50V	2	
	C401,402	Styrol 100pF ±5% 50V	2	
	(RESISTORS)			
	Carbon 100 ohm ±10% 1/4W		1	
	Carbon 1K ohm ±10% 1/4W		4	
TONE CONTROL P.C.B. ASSY				
Key No.	Part No.	Description	Qty	
433,434	TR401 - 408	Transistor 2SC1313 (SEMICONDUCTORS)	8	
R405	443,444	Carbon 1.2K ohm ±10% 1/4W	2	
	R401,402	Carbon 2.7K ohm ±10% 1/4W	4	
	447,448	Carbon 3.3K ohm ±10% 1/4W	1	
	R413,414	Carbon 3.9K ohm ±10% 1/4W	2	
	R419,420	Carbon 5.6K ohm ±10% 1/4W	8	
	421,422	Carbon 10K ohm ±10% 1/4W	2	
	431,432	Carbon 12K ohm ±10% 1/4W	2	
	441,442	Carbon 22K ohm ±10% 1/4W	4	
	R423,424	Carbon 27K ohm ±10% 1/4W	2	
	R409,410	Carbon 39K ohm ±10% 1/4W	4	
R405	445,446	Carbon 56K ohm ±10% 1/4W	2	
	R425,426	Carbon 150K ohm ±10% 1/4W	4	
	R403,404	Carbon 220K ohm ±10% 1/4W	6	
	435,436	(SEMICONDUCTORS)		
	437,438	Transistor 2SC1313	8	

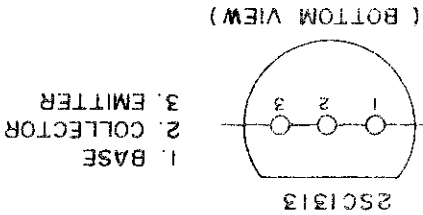
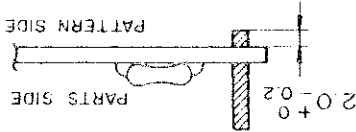
- Notes: 1. Parts orders must contain Model Number, Part Number and Description.
2. Unless otherwise noted, component parts indicated by parentheses in the column Q'ty are not available.
3. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

TONE CONTROL P.C. ASSY BOTTOM VIEW

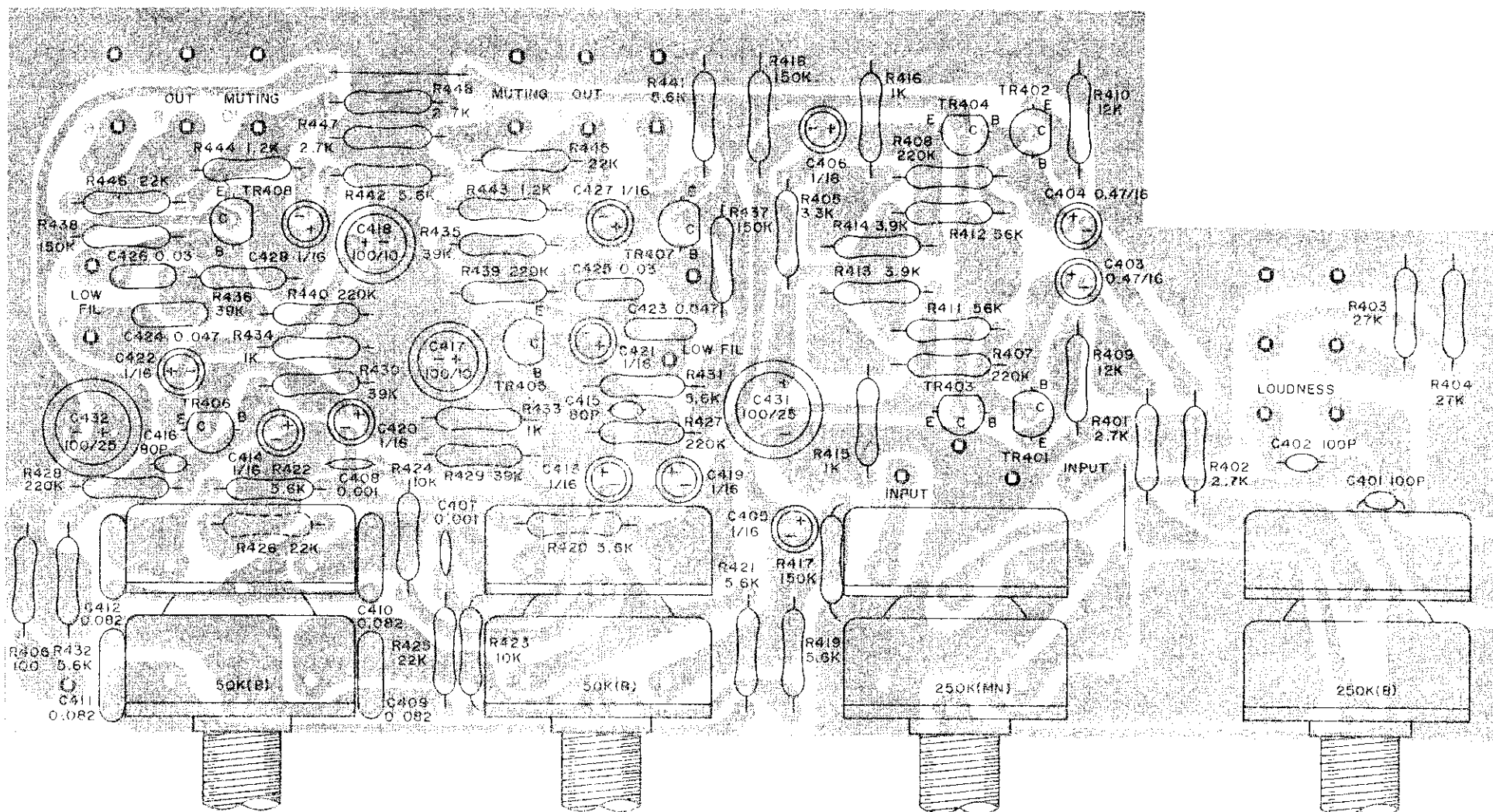


TR401 ~ TR408 2SC1313 For G

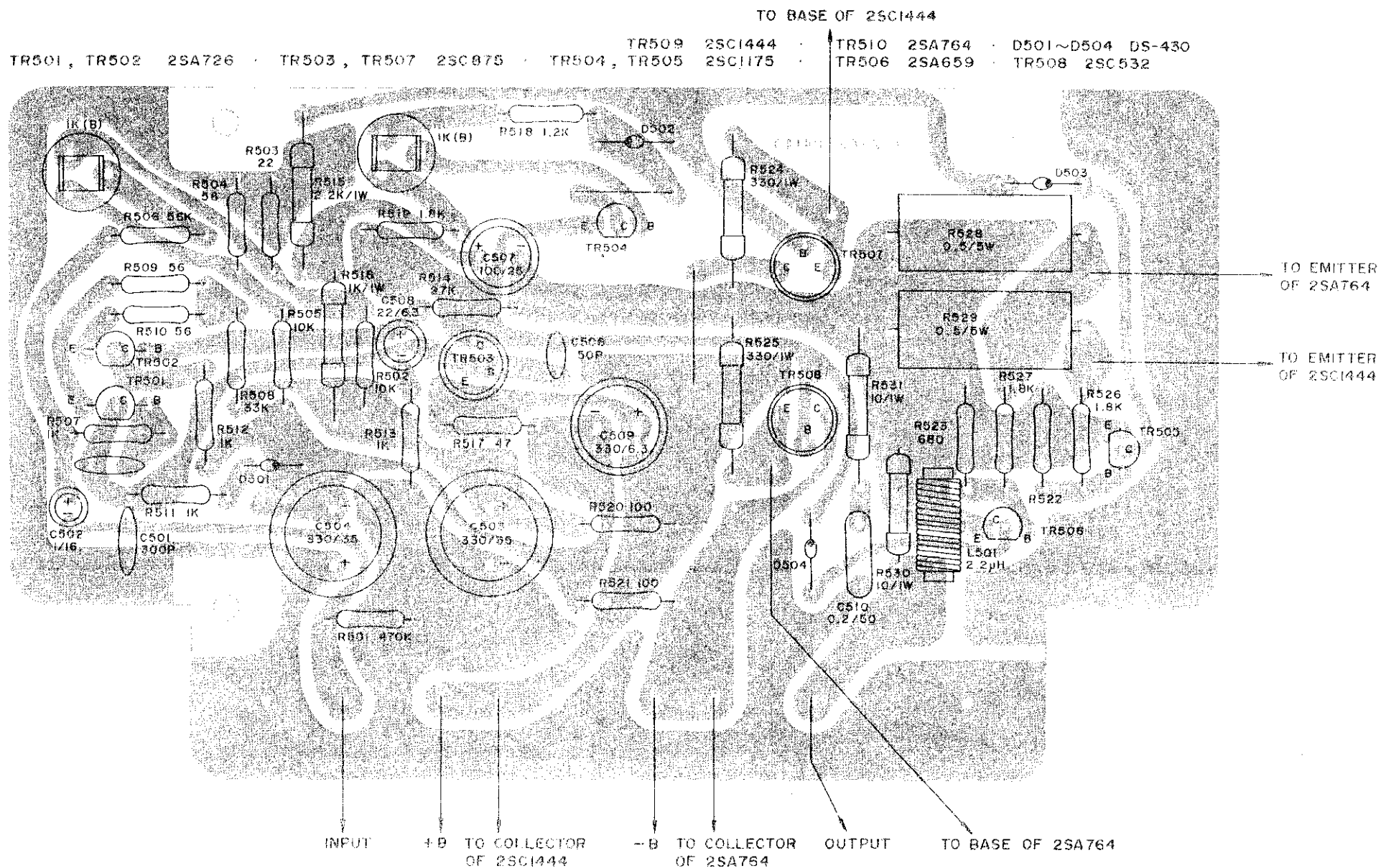
WIRE WRAP TERMINAL (26)



TONE CONTROL P.C. ASS'Y TOP VIEW



MAIN AMP P.C. ASS'Y TOP VIEW

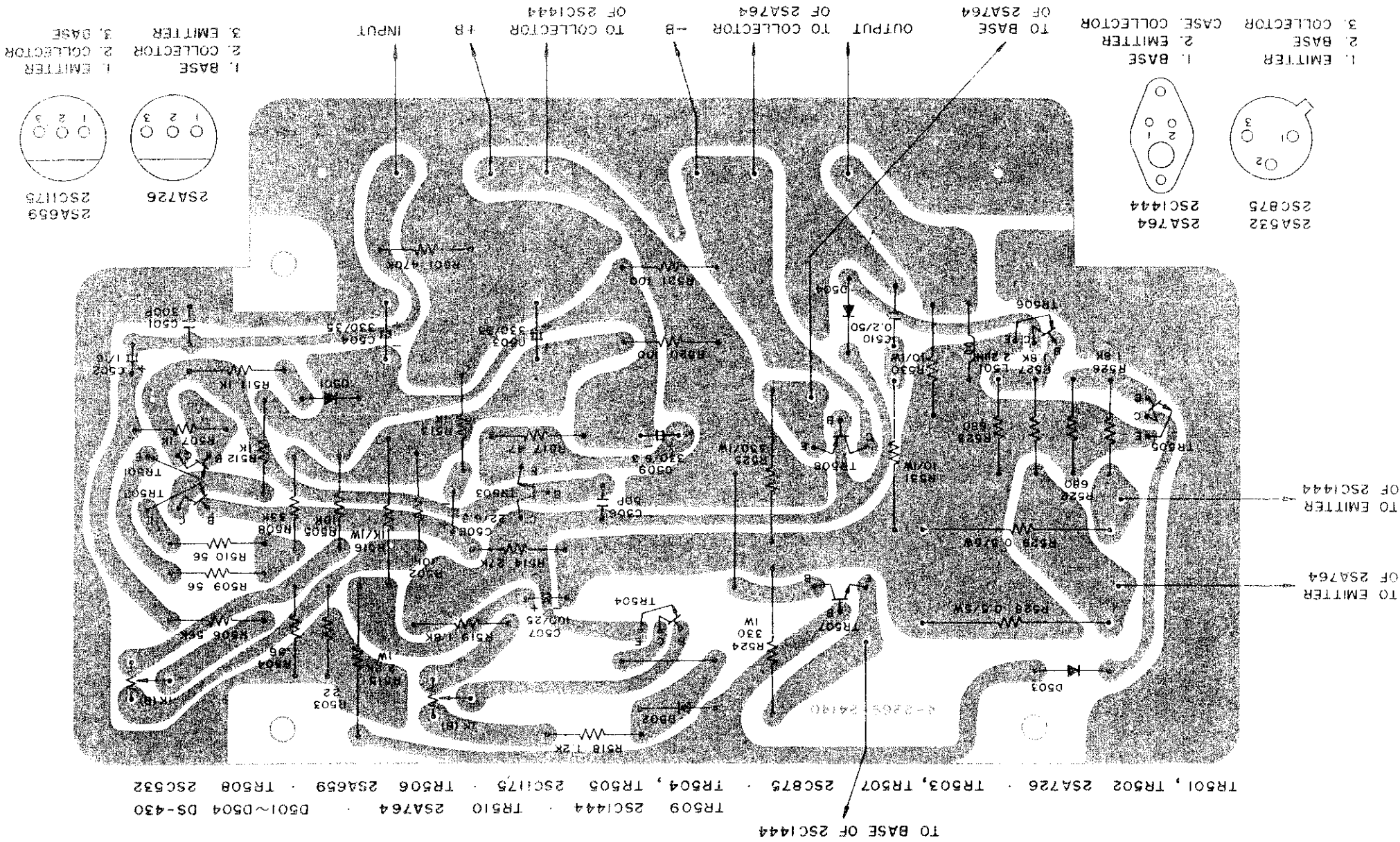


PARTS LIST

MAIN AMP P.C.B ASSY				MAIN AMP P.C.B ASSY			
Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
121	131 0 4001 33001	Main AMP P.C.B. assy	1	121	131 0 4001 33001	Main AMP P.C.B. assy	1
L501	4 2229 22910	Semi-fixed VR B-1K ohm	2	L501	4 2539 20160	Choke coil 2.2uF	1
	131 2 3614 13400	Mount, P.C.B.	2		131 2 3614 13400	Mount, P.C.B.	2
	131 2 3701 12900	Mount, electric part	1		131 2 3701 12900	Mount, electric part	1
	131 2 3701 13000	Mount, electric part	1		131 2 3701 13000	Mount, electric part	1
	131 2 6201 19300	Plate, heat sink	1		131 2 6201 19300	Plate, heat sink	1
(CAPACITORS)				(CAPACITORS)			
C506	Ceramic 50pF ±20% 50V	1	C506	Ceramic 50pF ±20% 50V	1	C506	Ceramic 50pF ±20% 50V
C501	Ceramic 300pF ±20% 50V	1	C501	Ceramic 300pF ±20% 50V	1	C501	Ceramic 300pF ±20% 50V
C510	Mylar 0.22uF ±10% 50V	1	C510	Mylar 0.22uF ±10% 50V	1	C510	Mylar 0.22uF ±10% 50V
C502	Electrolytic 1uF 16V	1	C502	Electrolytic 1uF 16V	1	C502	Electrolytic 1uF 16V
C508	Electrolytic 22uF 6.3V	1	C508	Electrolytic 22uF 6.3V	1	C508	Electrolytic 22uF 6.3V
C507	Electrolytic 100uF 25V	1	C507	Electrolytic 100uF 25V	1	C507	Electrolytic 100uF 25V
C509	Electrolytic 330uF 6.3V	1	C509	Electrolytic 330uF 6.3V	1	C509	Electrolytic 330uF 6.3V
C503,504	Electrolytic 330uF 35V	2	C503,504	Electrolytic 330uF 35V	2	C503,504	Electrolytic 330uF 35V
(RESISTORS)				(RESISTORS)			
R501	Carbon 10 ohm ±10% 1W	2	R501	Carbon 10 ohm ±10% 1W	2	R501	Carbon 10 ohm ±10% 1W
R503	Carbon 22 ohm ±10% 1/2W	1	R503	Carbon 22 ohm ±10% 1/2W	1	R503	Carbon 22 ohm ±10% 1/2W
R504,509	Carbon 47 ohm ±10% 1/2W	1	R504,509	Carbon 47 ohm ±10% 1/2W	1	R504,509	Carbon 47 ohm ±10% 1/2W
R510	Carbon 56 ohm ±10% 1/2W	3	R510	Carbon 56 ohm ±10% 1/2W	3	R510	Carbon 56 ohm ±10% 1/2W
R530,531	Carbon 10 ohm ±10% 1W	2	R530,531	Carbon 10 ohm ±10% 1W	2	R530,531	Carbon 10 ohm ±10% 1W
R503	Carbon 22 ohm ±10% 1/2W	1	R503	Carbon 22 ohm ±10% 1/2W	1	R503	Carbon 22 ohm ±10% 1/2W
R517	Carbon 56 ohm ±10% 1/2W	1	R517	Carbon 56 ohm ±10% 1/2W	1	R517	Carbon 56 ohm ±10% 1/2W
R504,509	Carbon 47 ohm ±10% 1/2W	1	R504,509	Carbon 47 ohm ±10% 1/2W	1	R504,509	Carbon 47 ohm ±10% 1/2W
R520,521	Carbon 100 ohm ±10% 1/2W	2	R520,521	Carbon 100 ohm ±10% 1/2W	2	R520,521	Carbon 100 ohm ±10% 1/2W
MAIN AMP P.C.B ASSY				MAIN AMP P.C.B ASSY			
Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
R524,525	R522,523	Carbon 330 ohm ±10% 1W	2	R524,525	R522,523	Carbon 330 ohm ±10% 1W	2
R516	R507,511	Carbon 1K ohm ±10% 1W	1	R516	R507,511	Carbon 1K ohm ±10% 1W	1
R518	R519,526,	Carbon 1.2K ohm ±10% 1/2W	1	R518	R519,526,	Carbon 1.2K ohm ±10% 1/2W	1
R515	512,513	Carbon 2.2K ohm ±10% 1W	1	R515	512,513	Carbon 2.2K ohm ±10% 1W	1
R502,505	R502,505	Carbon 10K ohm ±10% 1/2W	2	R502,505	R502,505	Carbon 10K ohm ±10% 1/2W	2
R514	R508	Carbon 27K ohm ±10% 1/2W	1	R514	R508	Carbon 27K ohm ±10% 1/2W	1
R506	R506	Carbon 33K ohm ±10% 1/2W	1	R506	R506	Carbon 33K ohm ±10% 1/2W	1
R501	R501	Carbon 470K ohm ±10% 1/2W	1	R501	R501	Carbon 470K ohm ±10% 1/2W	1
R528,529	R501	Carbon 0.5 ohm ±10% 5W	2	R528,529	R501	Carbon 0.5 ohm ±10% 5W	2
TR510	TR509	Transistor 2SA764	1	TR510	TR509	Transistor 2SA764	1
TR503,507	TR501,502	Transistor 2SC1444	1	TR503,507	TR501,502	Transistor 2SC1444	1
TR504,505	TR503,507	Transistor 2SC875 (E)	2	TR504,505	TR503,507	Transistor 2SC875 (E)	2
TR506	TR506	Transistor 2SA659 (D)	1	TR506	TR506	Transistor 2SA659 (D)	1
TR508	TR508	Transistor 2SA532 (E)	1	TR508	TR508	Transistor 2SA532 (E)	1
D501,502,	D501,502,	Diode DS430	4	D501,502,	D501,502,	Diode DS430	4

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MAIN AMP P.C. ASSY BOTTOM VIEW

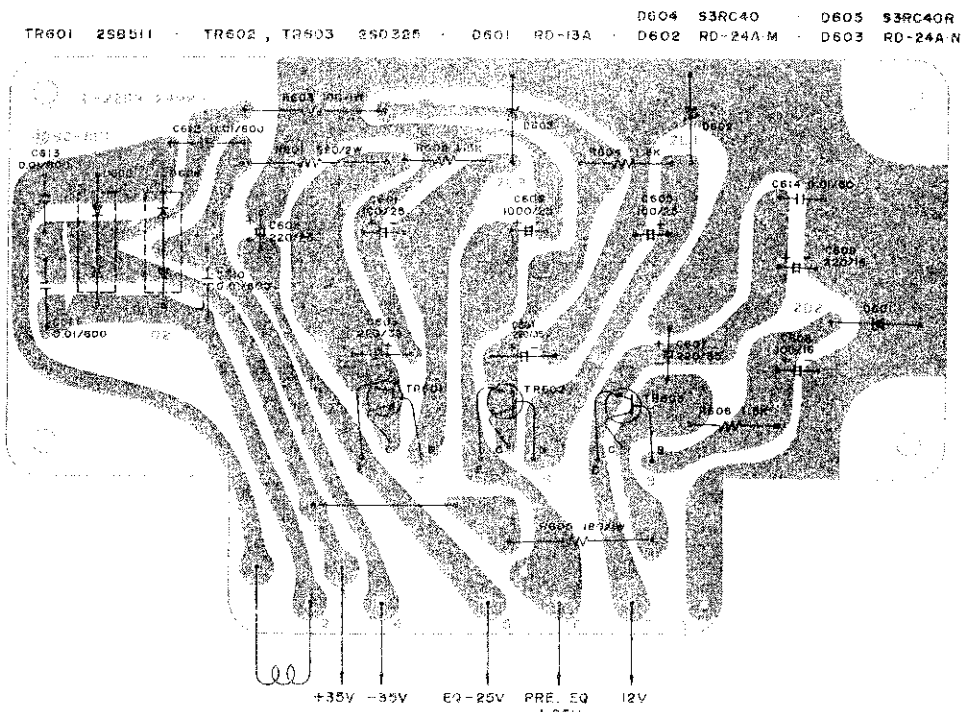


PARTS LIST

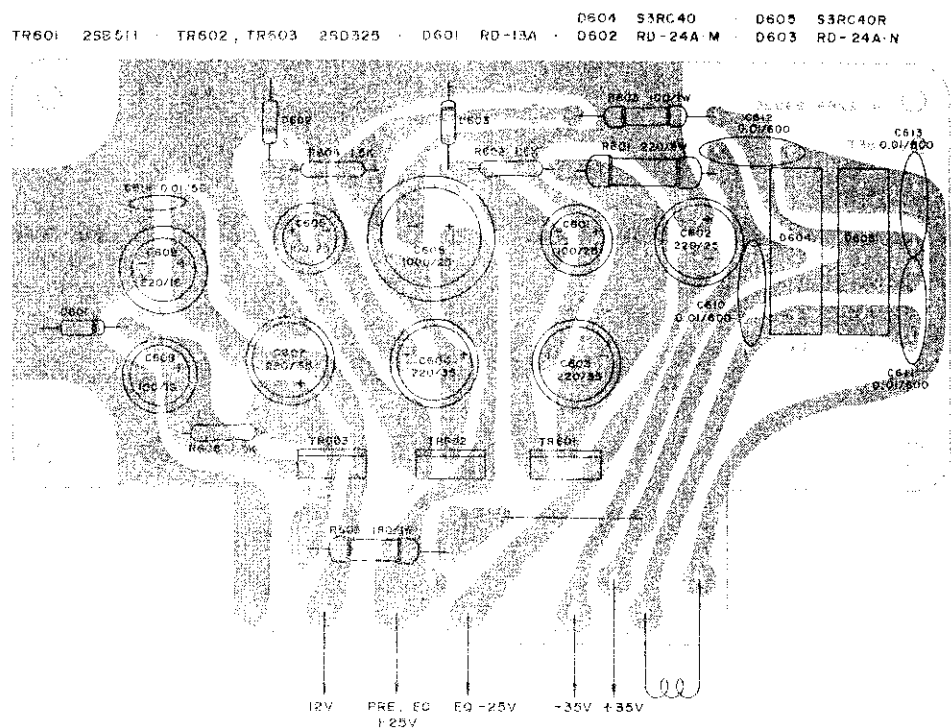
Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
POWER SUPPLY P.C.B. ASSY				POWER SUPPLY P.C.B. ASSY			
124	131 0 4001 40602	Power supply P.C.B. assy	1			(RESISTORS)	
C608		Electrolytic 100μ F 16V	1	R602,604, 606		Carbon 1.5K ohm ±10% ¼W	3
C609		Electrolytic 220μ F 16V	1	R603		Metal film 100 ohm ±10% 1W	1
C606		Electrolytic 1000μ F 25V	1	R605		Metal film 180 ohm ±10% 1W	1
C601,605		Electrolytic 100μ F 25V	2	R601		Metal film 220 ohm ±10% 2W	1
C602		Electrolytic 220μ F 25V	1			(SEMICONDUCTORS)	
C614		Ceramic 0.01μ F ±10% 50V	1	TR601	203 5 6470 51140	Transistor 2SB511	1
C603,604, 607		Electrolytic 220μ F 35V	3	TR602,603	203 5 8210 32540	Transistor 2SD325	2
C610,611, 612,613		Ceramic 0.01μ F ±20% 600V	4	D604		Diode S3RC-40	1
				D605		Diode S3RC-40R	1
				D601		Diode RD-13A	1
				D602		Diode RD-24A (M)	1
				D603		Diode RD-24A (N)	1

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POWER SUPPLY P.C. ASS'Y BOTTOM VIEW



POWER SUPPLY P.C. ASS'Y TOP VIEW

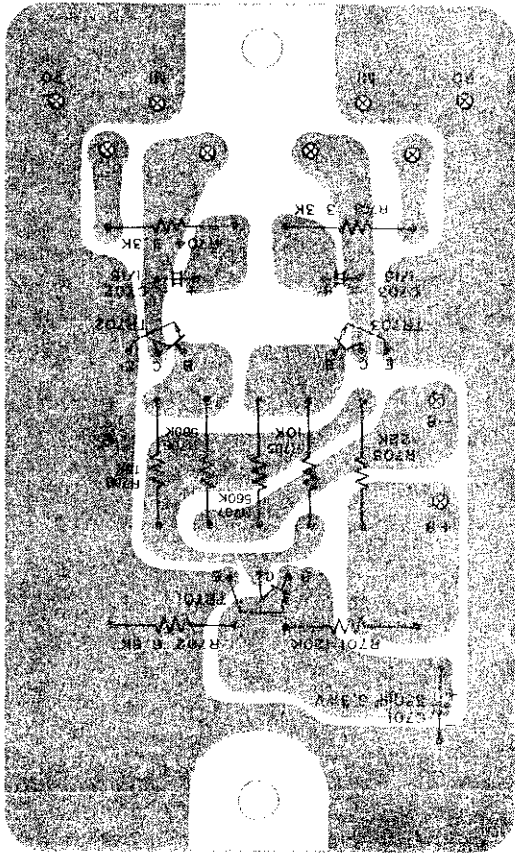


PARTS LIST

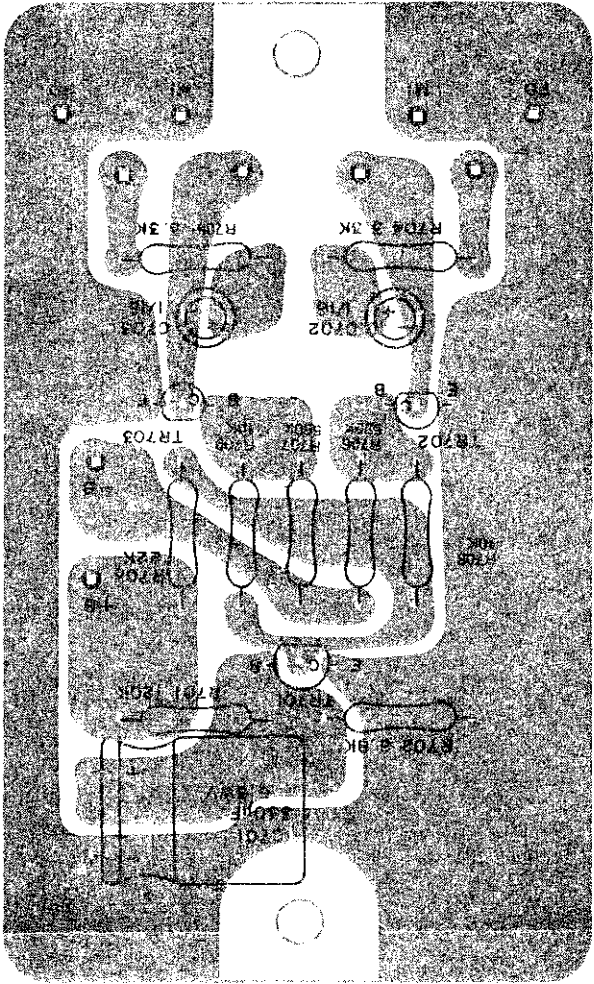
MUTING P.C.B. ASSY			SWITCH P.C.B. ASSY		
Key No.	Part No.	Description	Key No.	Part No.	Description
127	131 0 4001 41600	Muting P.C.B. assy	125	131 0 4001 42000	Dial lamp P.C.B. assy
C702,703	Electrolytic 1 μ F 16V	(CAPACITORS)	126	131 0 4001 41700	Switch P.C.B. assy
			125	4 2319 23190	Switch, push 7 keys
R704,709	Carbon 3.3K ohm $\pm 10\%$ %W	(RESISTORS)	DIAL LAMP P.C.B. ASSY		
R702	Carbon 6.8K ohm $\pm 10\%$ %W	(SEMICONDUCTORS)			
R703	Carbon 22K ohm $\pm 10\%$ %W	Transistor 2SC536 (F)	R801,802	Carbon 2.7K ohm $\pm 10\%$ %W	(RESISTOR)
R708,706	Carbon 10K ohm $\pm 10\%$ %W		DIAL LAMP P.C.B. ASSY		
R701	Carbon 120K ohm $\pm 10\%$ %W				
R706,707	Carbon 560K ohm $\pm 10\%$ %W				
TR701	Transistor 2SC536 (F)		DIAL LAMP P.C.B. ASSY		
TR702,703	Transistor 2SC536 (F)				
125	131 0 4001 42000	Dial lamp P.C.B. assy	126	131 0 4001 41700	Switch P.C.B. assy
125	4 2359 20930	Fuse holder	125	4 6129 20280	Pilot lamp
10	4 6129 20360	Pilot lamp, pointer	125	4 6129 20360	Resistor, Carbon 6.8 ohm $\pm 10\%$ %W
1			1		

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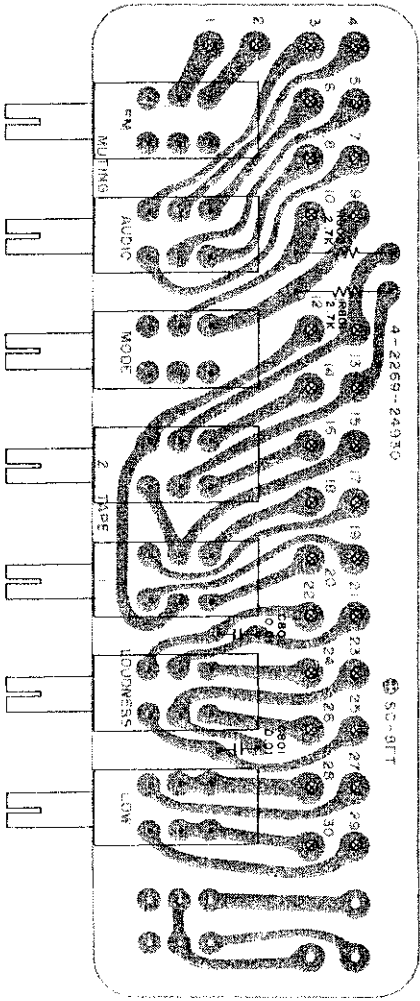
MUTING P.C. ASSY
BOTTOM VIEW



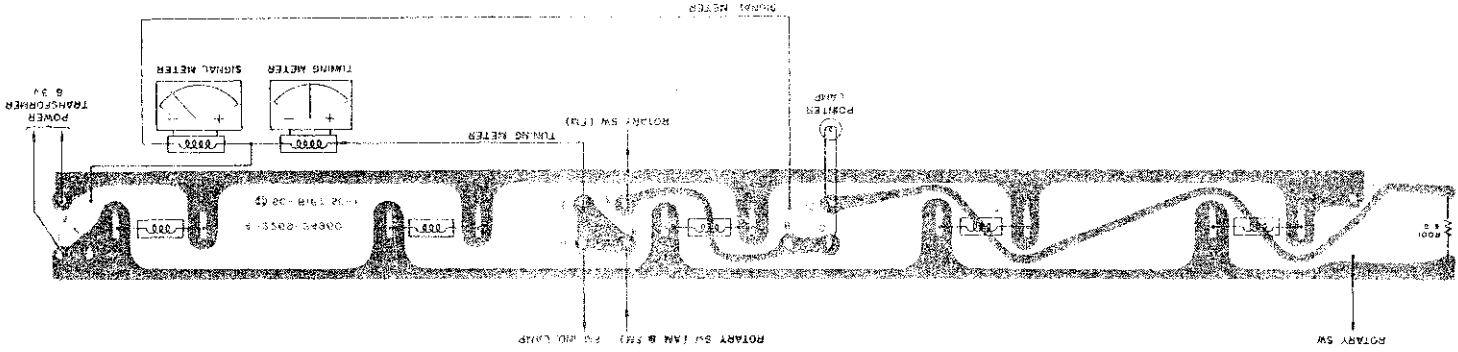
MUTING P.C. ASSY
TOP VIEW

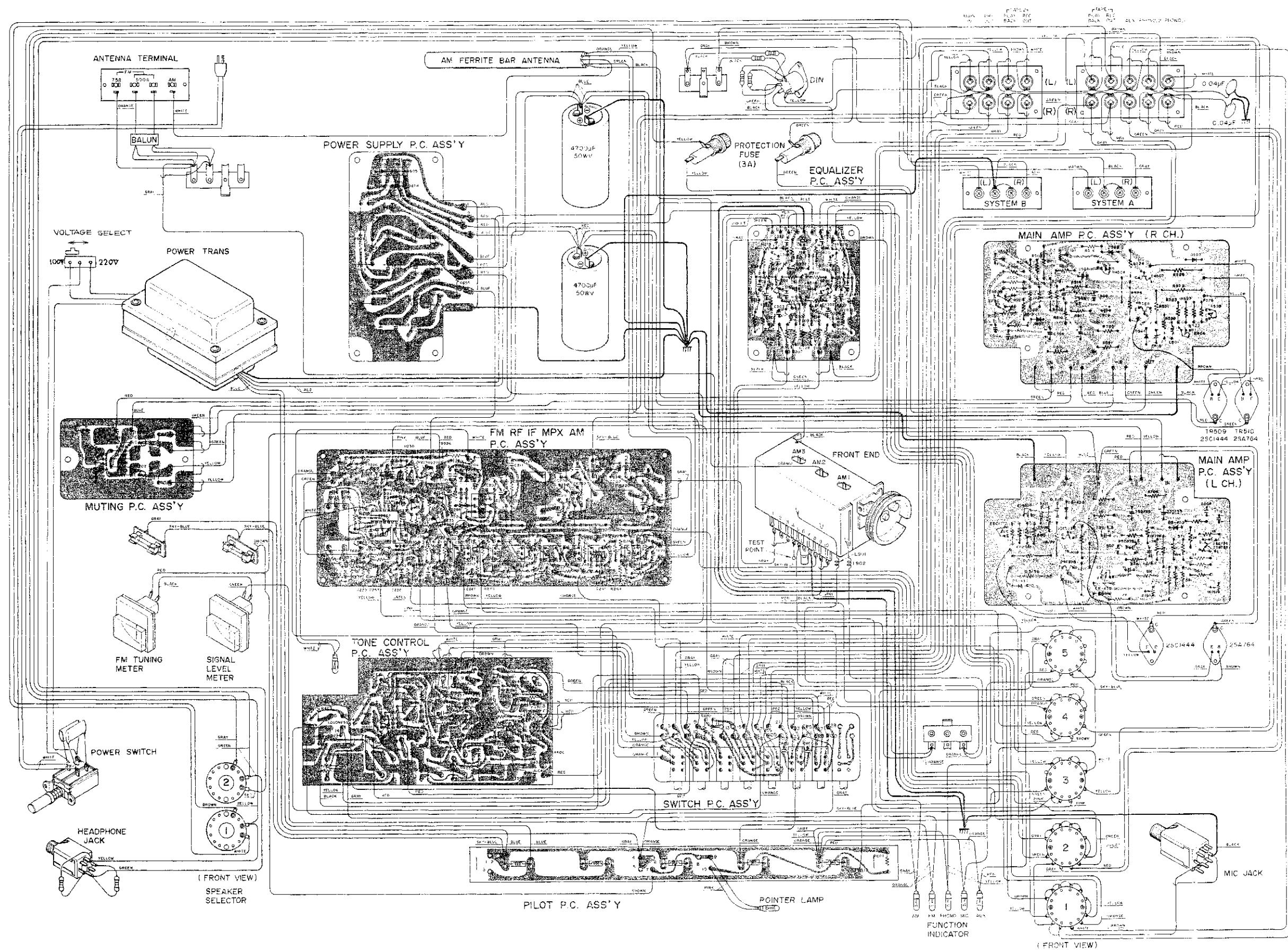


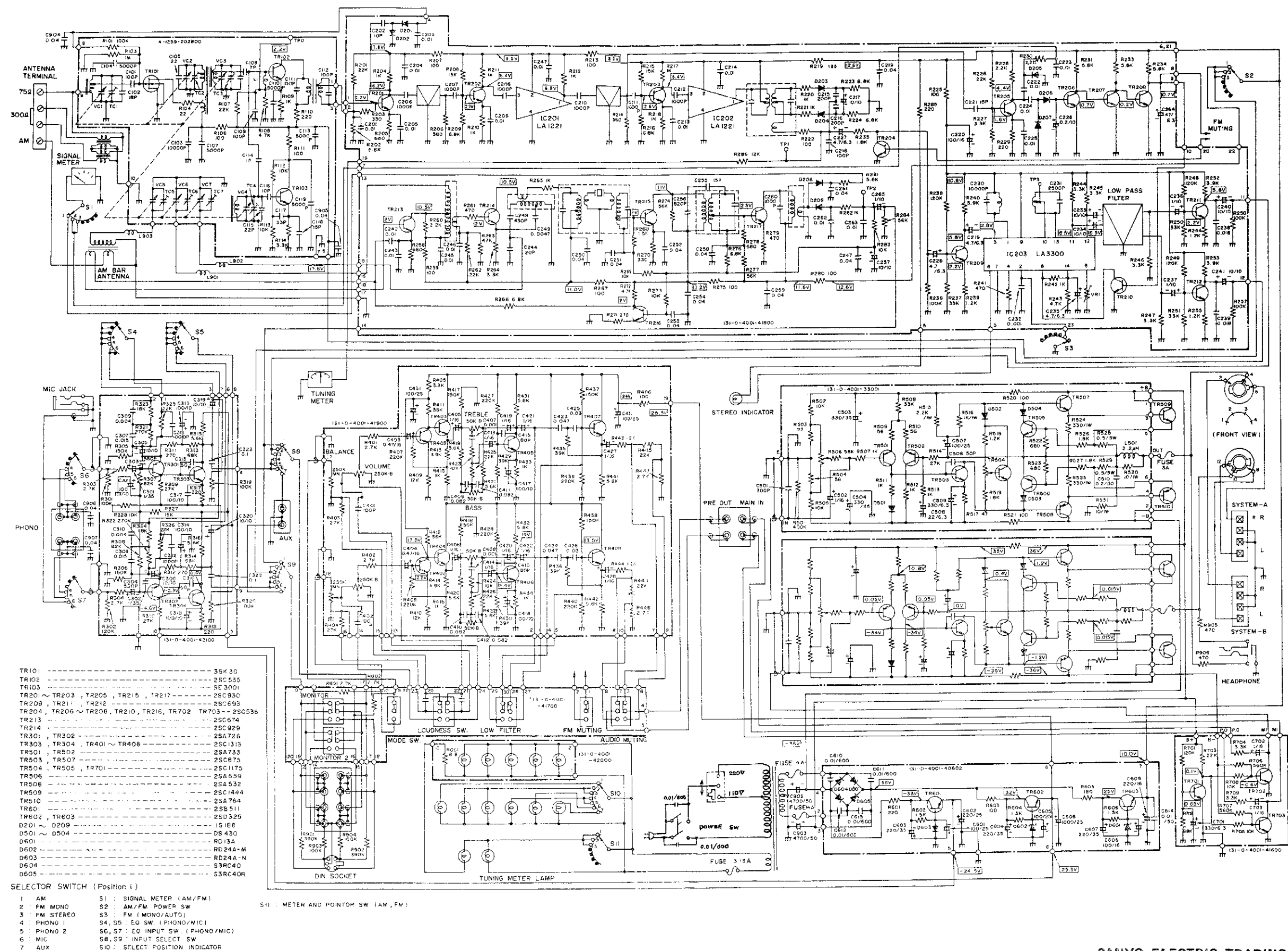
SWITCH P.C. ASSY
BOTTOM VIEW



DIAL LAMP P.C. ASSY BOTTOM VIEW







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WM-828 Nov./73/1000 Printed in Japan