



SANYO

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

FM TUNER SECTION

Frequency Range	88 - 108 MHz
IF	10.7 MHz
Antenna Impedance	300 ohms balanced 75 ohms unbalanced
30 dB S/N Sensitivity	2.5 μ V
Usable Sensitivity (IHF)	2.5 μ V
Capture Ratio	2.5 dB
Image Rejection	80 dB (98 MHz)
IF Rejection	95 dB (98 MHz)
AM Suppression	50 dB (98 MHz)
Signal to Noise Ratio	70 dB (98 MHz)
Harmonic Distortion	Mono: 0.3% (100% Mod.) Stereo: 0.5% (100% Mod.)
Stereo Separation	35 dB
Selectivity (IHF)	60 dB

AM TUNER SECTION

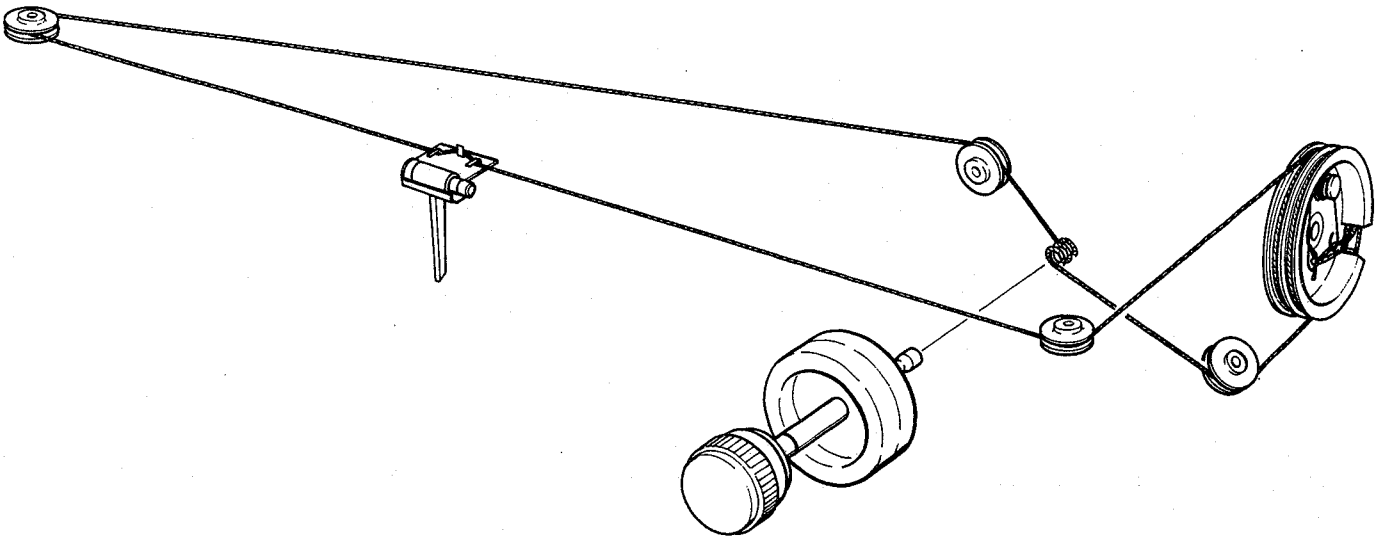
Frequency range	535 - 1,605 kHz
20 dB S/N Sensitivity	300 μ V/m

Usable Sensitivity (IHF)	250 μ V/m
Image Rejection	45 dB
IF Rejection	35 dB
Signal to Noise Ratio	45 dB
Selectivity	25 dB

AUDIO AMPLIFIER SECTION

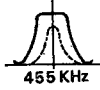
Total music power	85W
Continuous power	35W each channel drive 30W both channel drive
Total harmonic distortion (35W output power)	0.5%
Power band width	10 - 60,000 Hz
1 watt frequency response	20 - 50,000 Hz
Hum and noise	Less than 3mV
Input sensitivity & impedance	PHONO 1 2.5mV 50K ohm PHONO 2 2.5mV 50K ohm MIC 2.5mV 50K ohm AUX 180mV 100K ohm
Matching speaker impedance	4 - 16 ohm (8 ohm nominal)
Damping factor	30 at 8 ohm, 1K Hz
Tone control	Bass \pm 10 dB at 100Hz Treble \pm 10 dB at 10K Hz
Loudness control	100 Hz +10 dB 10K Hz +6 dB
Low filter	Fc = 70 Hz (12 dB/oct)
Audio muting	-20 dB at 1K Hz
Pre amplifier output	500mV
Main amp. input sensitivity	500mV/50K ohm
Tape output sensitivity	RCA 180mV DIN 35mV
Tape input sensitivity & impedance	RCA 180mV 100K ohm DIN 180mV 100K ohm
Signal to noise ratio	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 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.

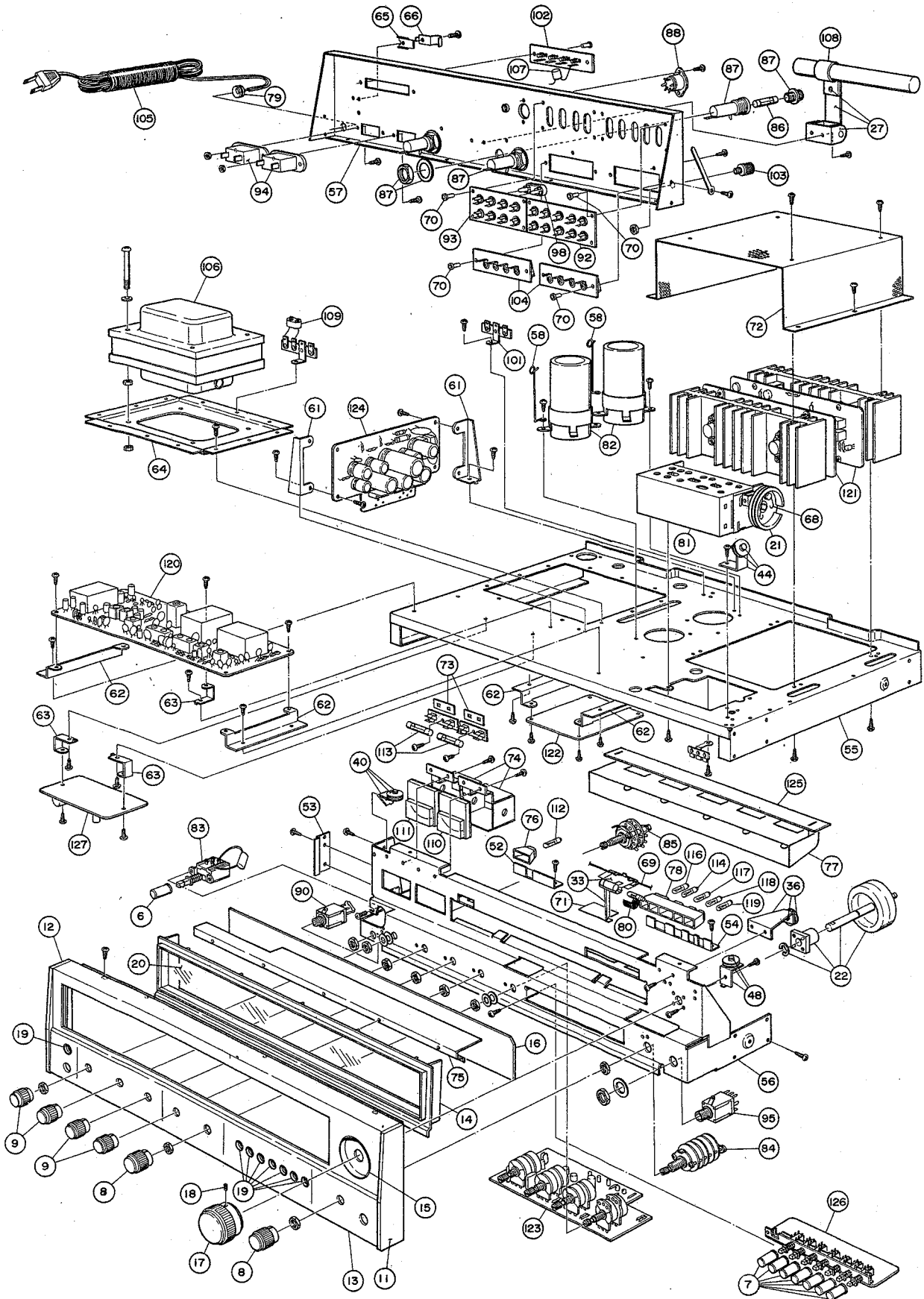
FM MPX ADJUSTMENT

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 1000 Hz 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 1000 Hz signal from R Ch.	Connect V.T.V.M. to L output		38 KHz ① Set the pre-set resistor (1K-B) connected to PIN No. 5 of IC401 to the minimum position. ② Adjust 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.

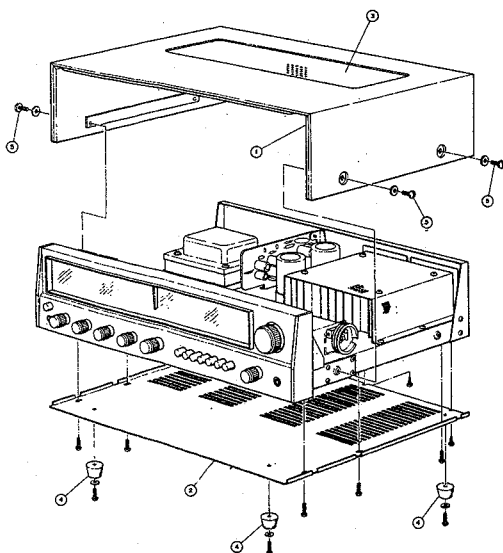
EXPLODED VIEW



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

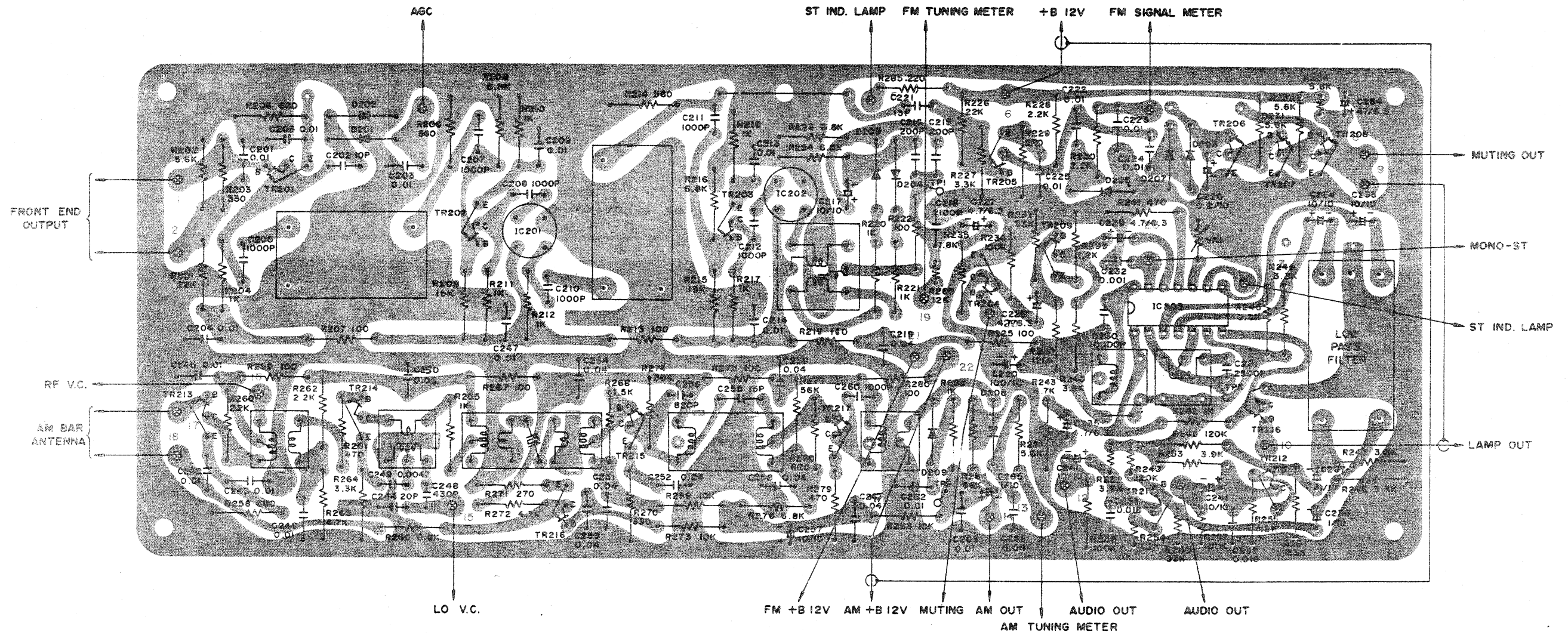
- NOTES: 1. Part orders must contain Model Number, Part Number and Description.
 2. Unless otherwise noted, component parts indicated by parentheses in the column Q'ty are not available.
 3. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

PARTS LIST

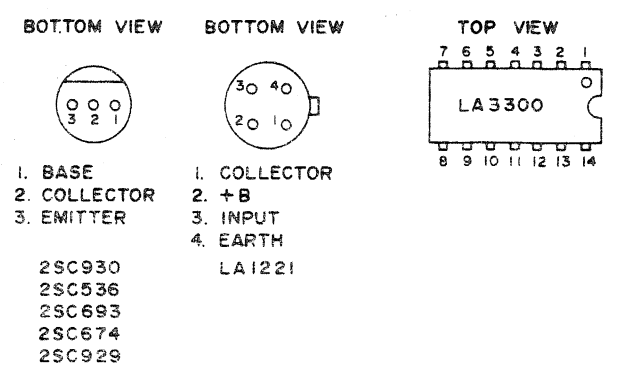
Key No.	Part No.	Description	Q'ty
ELECTRICAL PARTS			
81	4 1259 20280	Front end	1
82	4 2239 20550	Electric capacitor 4700 μ F 50V	2
83	4 2319 23090	C902, C903	1
84	4 2319 23170	Switch, power	1
85	4 2319 23180	Switch, rotary function	1
86	4 2319 21531	Switch, rotary speaker	1
87	4 2359 20160	Switch, slide 6P	1
88	4 2359 20190	Fuse holder	2
	4 2359 20200	Socket, 5P DIN	1
	4 2359 20200	Socket	3
90	4 2359 21080	Jack, headphone	1
92	4 2359 21240	Socket, phono 10P, input, tape	1
93	4 2359 21260	Socket, phono 8P, tape 2, pre out-main in	1
	4 2359 21020	Socket	3
95	4 2359 21670	Jack, microphone	1
86	4 2349 20580	Fuse 3.15A	1
	4 2349 20590	Fuse 4A	2
98	4 2369 20520	Plug, connector	2
	4 2379 20490	Terminal lug 1-1P	1
	4 2379 20150	Terminal, base	1
101	4 2379 20400	Terminal lug 3P DIN	1
102	4 2379 21050	Terminal, antenna	1
103	4 2379 21060	Terminal	1
104	4 2379 21210	Terminal SP 4P	2
105	4 2439 20521	Power cord	1
106	4 2519 22881	Power trans	1
107	4 2539 20121	IF trap	2
108	4 2579 21022	Bar antenna, AM	1
109	4 2599 20300	Balun	1
110	4 5119 20342	Meter, signal	1
111	4 5119 20351	Meter, tuning	1
112	4 6129 20147	Stereo ind. lamp 6.3V 25mA	1
113	4 6129 20280	Pilot lamp, meter	2
114	4 6129 20302	Pilot lamp, FM	1
116	4 6129 20370	Pilot lamp, AM	1
117	4 6129 20371	Pilot lamp, phono	1
118	4 6129 20372	Pilot lamp, mic	1
119	4 6129 20373	Pilot lamp, AUX	1
	131 0 4006 00100	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

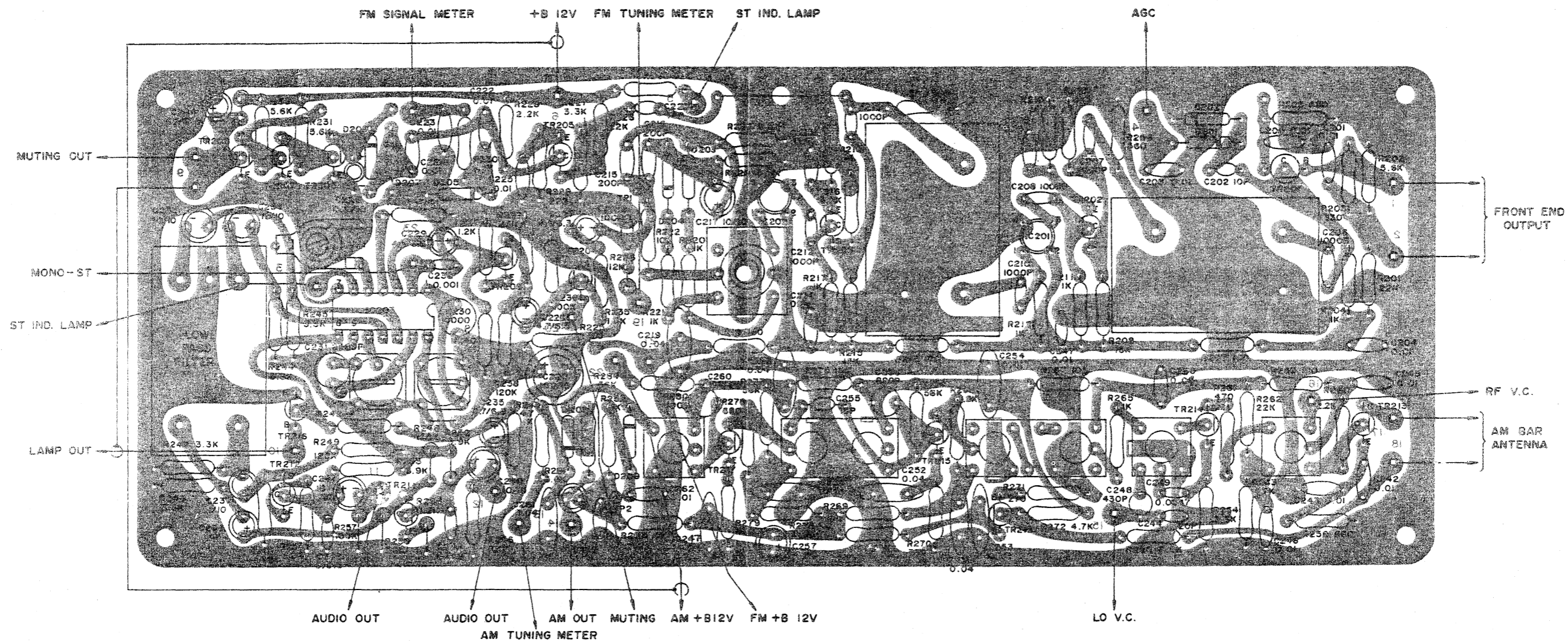
Key No.	Part No.	Description	Q'ty
IF, MPX P.C.B. ASSY			
C227,228		Electrolytic 4.7 μ F 6V	4
229,235			
C217,233		Electrolytic 10 μ F 10V	6
234,240			
241,257			
C264		Electrolytic 47 μ F 6V	1
C220		Electrolytic 100 μ F 16V	1
C248		Styrol 430pF \pm 10% 50V	1
C256		Styrol 820pF \pm 10% 50V	1
C260		Styrol 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.



- 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
- D201 ~ D209 --- 1S188





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
D201 ~ D209	1S188

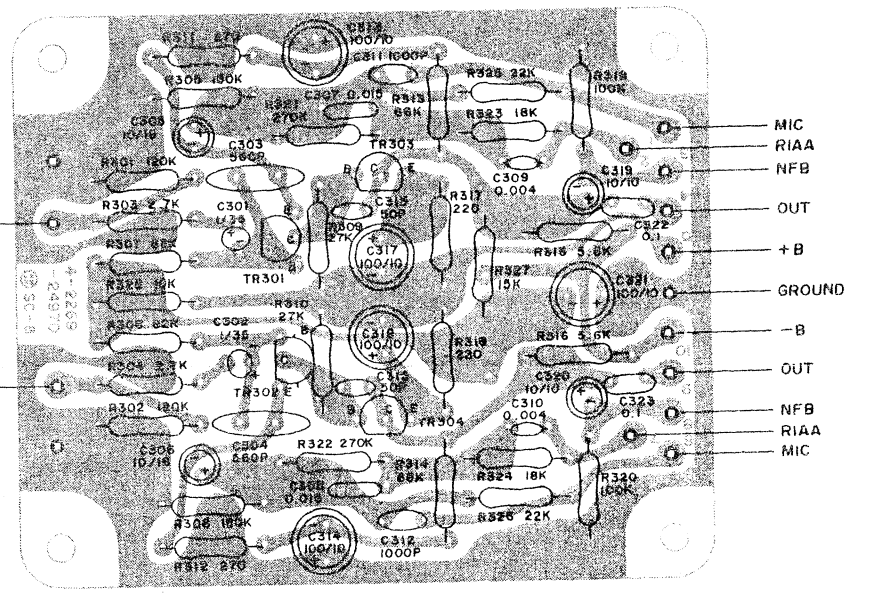
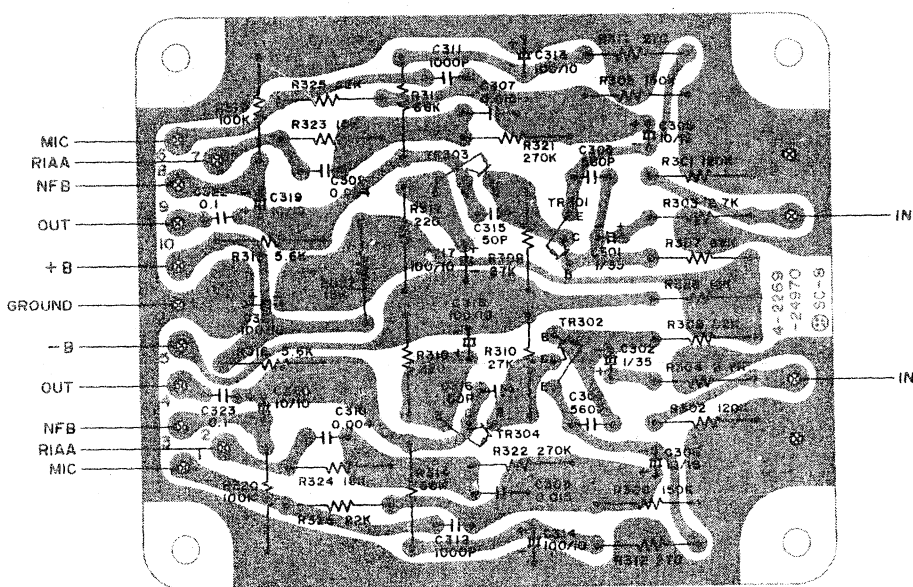
PARTS LIST

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 ±10% ¼W	1	321		Electrolytic 10µF 10V	2
R238,249		Carbon 120K ohm ±10% ¼W	2	C305,306		Electrolytic 10µF 10V	2
R248		Carbon 120K ohm ±10% ¼W	1	C319,320		Ceramic 560pF ±10% 50V	2
(SEMICONDUCTORS)				C303,304		Ceramic 50pF ±10% 50V	2
D201,202, 203,204, 205,206, 207,208, 209	202 5 9110 18820	Diode 1S188 (FM1)	9	C315,316		Mylar 0.001µF ±5% 50V	2
TR213, TR204,206, 207,208, 210,216	203 5 4500 67440 203 5 5100 53640	Transistor 2SC674 (D) Transistor 2SC536 (D)	1 6	C311,312		Mylar 0.015µF ±5% 50V	2
TR209,211, 212	203 5 5100 69361	Transistor 2SC693 (FD)	3	C307,308		Mylar 0.004µF ±5% 50V	2
TR214	203 5 5500 92950	Transistor 2SC929(E)	1	C309,310		Mylar 0.1µF ±10% 50V	2
TR201,202, 203,205, 215,217	203 5 5500 93040	Transistor 2SC930(D)	6	C322,323		Tantal 1µF 35V	2
IC201,202	206 5 0121 22110	IC LA-1221	2	C301,302		(RESISTORS)	
IC203	206 5 0663 30010	IC LA-3300	1	R323,324		Carbon 18K ohm ±5% ¼W	2
EQUALIZER P.C.B. ASSY				R321,322		Carbon 270K ohm ±5% ¼W	2
122	131 0 4001 42100	Equalizer P.C.B. assy	1	R328		Carbon 10K ohm ±10% ¼W	1
(CAPACITORS)				R325,326		Carbon 22K ohm ±10% ¼W	2
C313,314, 317,318,		Electrolytic 100µF 10V	5	R301,302, R305,306, R319,320		Carbon 120K ohm ±10% ¼W Carbon 150K ohm ±10% ¼W Carbon 100K ohm ±10% ¼W	2 2 2
				R327		Carbon 15K ohm ±10% ¼W	1
				R317,318		Carbon 220 ohm ±10% ¼W	2
				R303,304		Carbon 2.7K ohm ±10% ¼W	2
				R309,310		Carbon 27K ohm ±10% ¼W	2
				R311,312		Carbon 270 ohm ±10% ¼W	2
				R315,316		Carbon 5.6K ohm ±10% ¼W	2
				R313,314		Carbon 68K ohm ±10% ¼W	2
				R307,308		Carbon 82K ohm ±10% ¼W	2
				TR301,302		(SEMICONDUCTORS)	
				TR303,304		Transistor 2SA726	2
						Transistor 2SC1313	2

- 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.

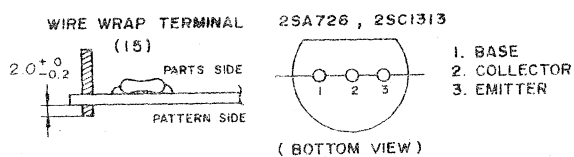
EQUALIZER P.C. ASS'Y BOTTOM VIEW

EQUALIZER P.C. ASS'Y TOP VIEW



TR301, TR302 2SA726 · TR303, TR304 2SC1313

TR301, TR302 2SA726 · TR303, TR304 2SC1313

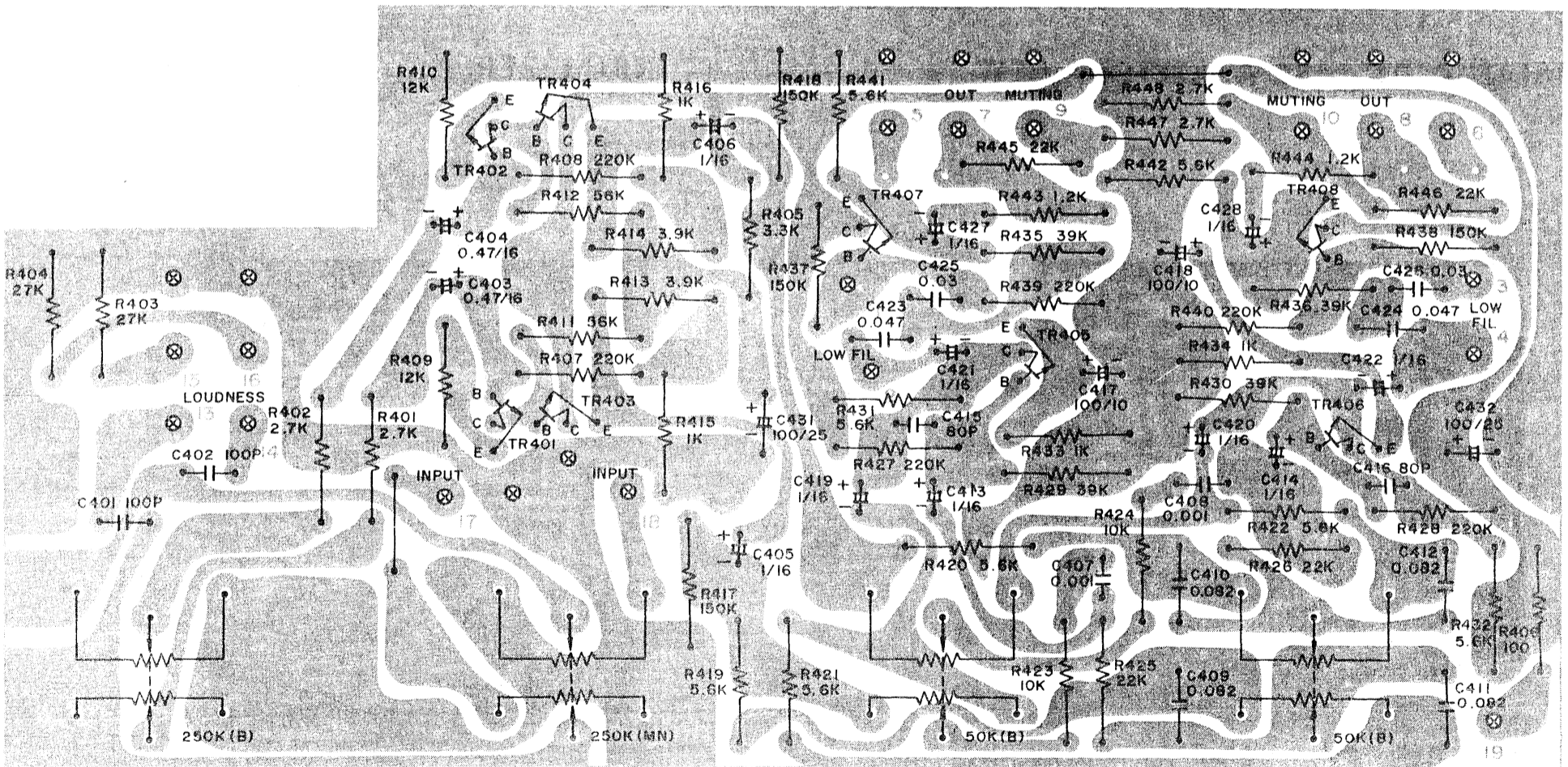


PARTS LIST

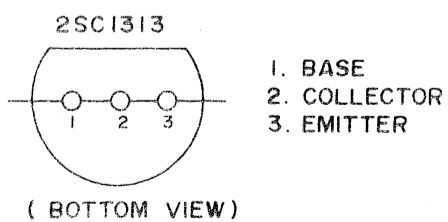
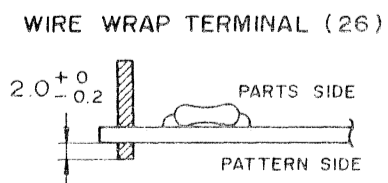
Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
TONE CONTROL P.C.B. ASSY				TONE CONTROL P.C.B. ASSY			
123	131 0 4001 41900	Tone control P.C.B. assy	1	433,434			
	4 2229 23460	Variable resistor, volume	1	R443,444	Carbon 1.2K ohm	±10% ¼W	2
	4 2229 23610	VR 250K-MN, barance	1	R401,402, 447,448	Carbon 2.7K ohm	±10% ¼W	4
	4 2229 23620	VR 50KB-2, tone	2	R405	Carbon 3.3K ohm	±10% ¼W	1
		(CAPACITORS)		R413,414	Carbon 3.9K ohm	±10% ¼W	2
C415,416		Ceramic 80pF ±20% 50V	2	R419,420, 421,422, 431,432, 441,442	Carbon 5.6K ohm	±10% ¼W	8
C407,408		Mylar 0.001µF ±5% 50V	2	R423,424	Carbon 10K ohm	±10% ¼W	2
C425,426		Mylar 0.03µF ±5% 50V	2	R409,410	Carbon 12K ohm	±10% ¼W	2
C423,424		Mylar 0.047µF ±5% 50V	2	R425,426, 445,446	Carbon 22K ohm	±10% ¼W	4
C409,410, 411,412		Mylar 0.082µF ±5% 50V	4	R403,404	Carbon 27K ohm	±10% ¼W	2
C403,404		Electrolytic 0.47µF 16V	2	R429,430, 435,436	Carbon 39K ohm	±10% ¼W	4
C405,406, 413,414, 419,420, 421,422, 427,428		Electrolytic 1µF 16V	10	R411,412	Carbon 56K ohm	±10% ¼W	2
C417,418		Electrolytic 100µF 10V	2	R417,418, 437,438	Carbon 150K ohm	±10% ¼W	4
C431,432		Electrolytic 100µF 25V	2	R407,408, 427,428	Carbon 220K ohm	±10% ¼W	6
C401,402		Styrol 100pF ±5% 50V	2	439,440			
		(RESISTORS)		TR401 - 408	Transistor 2SC1313		8
R406		Carbon 100 ohm ±10% ¼W	1				
R415,416,		Carbon 1K ohm ±10% ¼W	4				

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 3. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

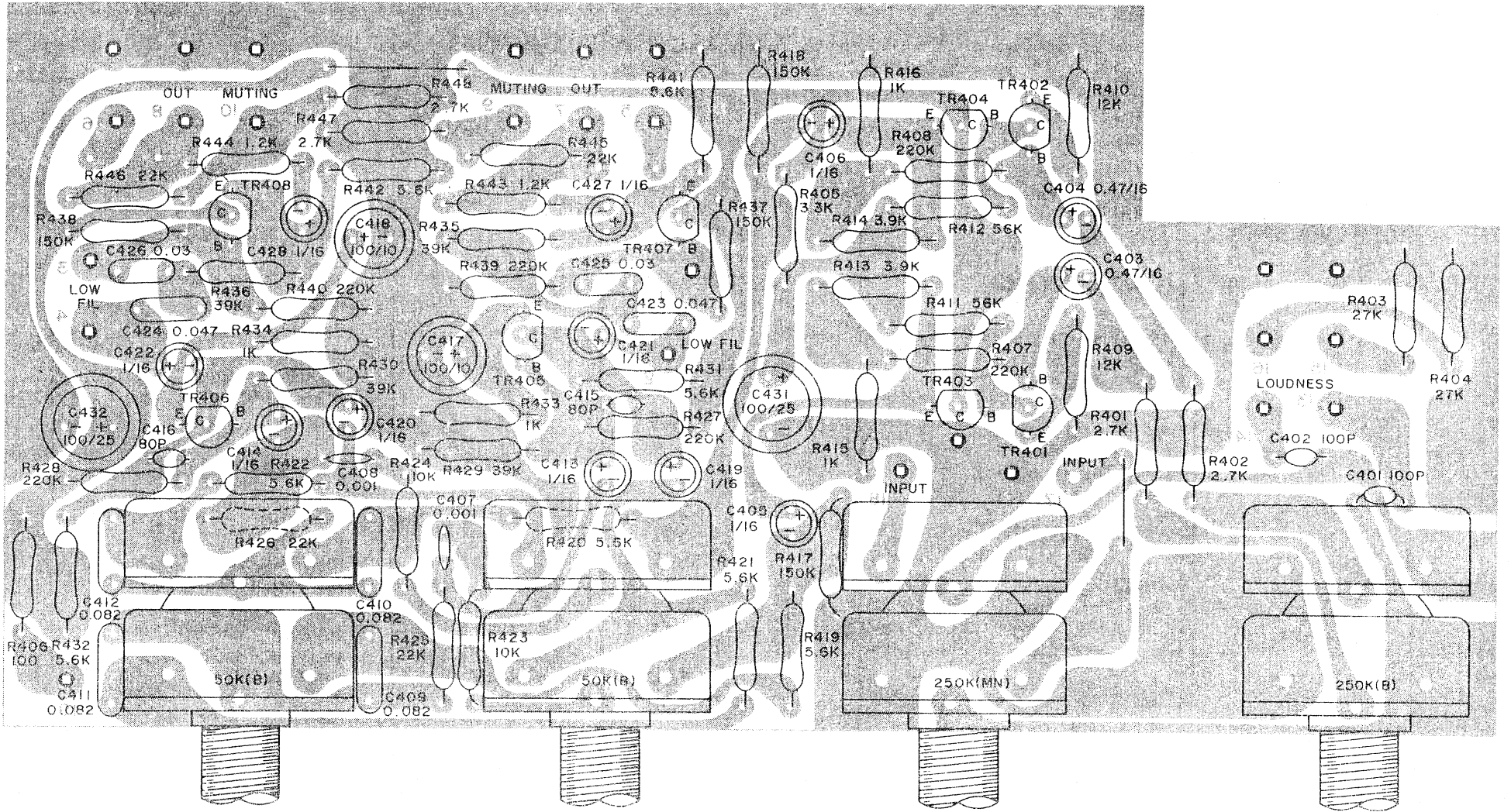
TONE CONTROL P.C. ASS'Y BOTTOM VIEW



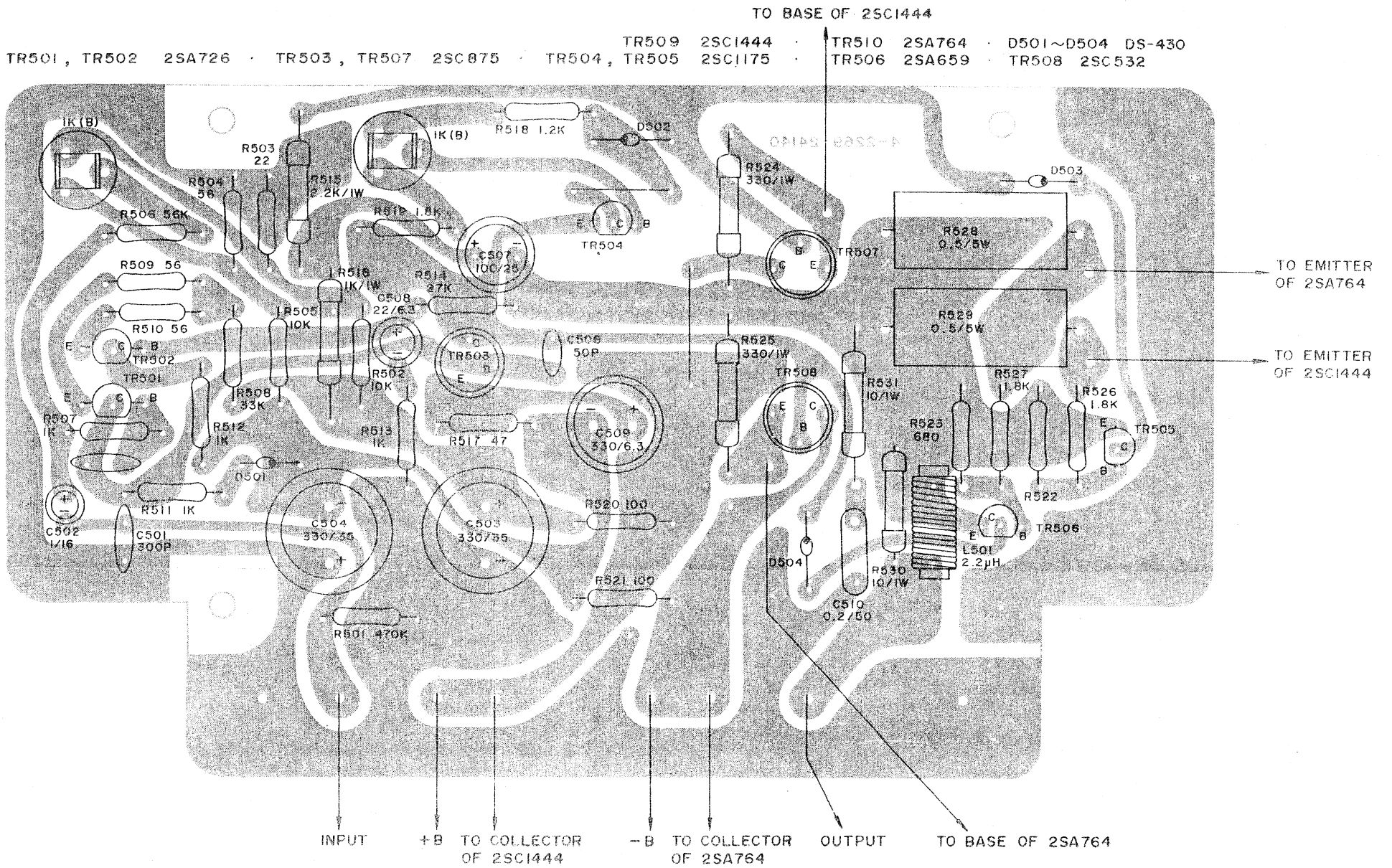
TR401 ~ TR408 2SC1313 F or G



TONE CONTROL P.C. ASS'Y TOP VIEW



MAIN AMP P.C. ASS'Y TOP VIEW

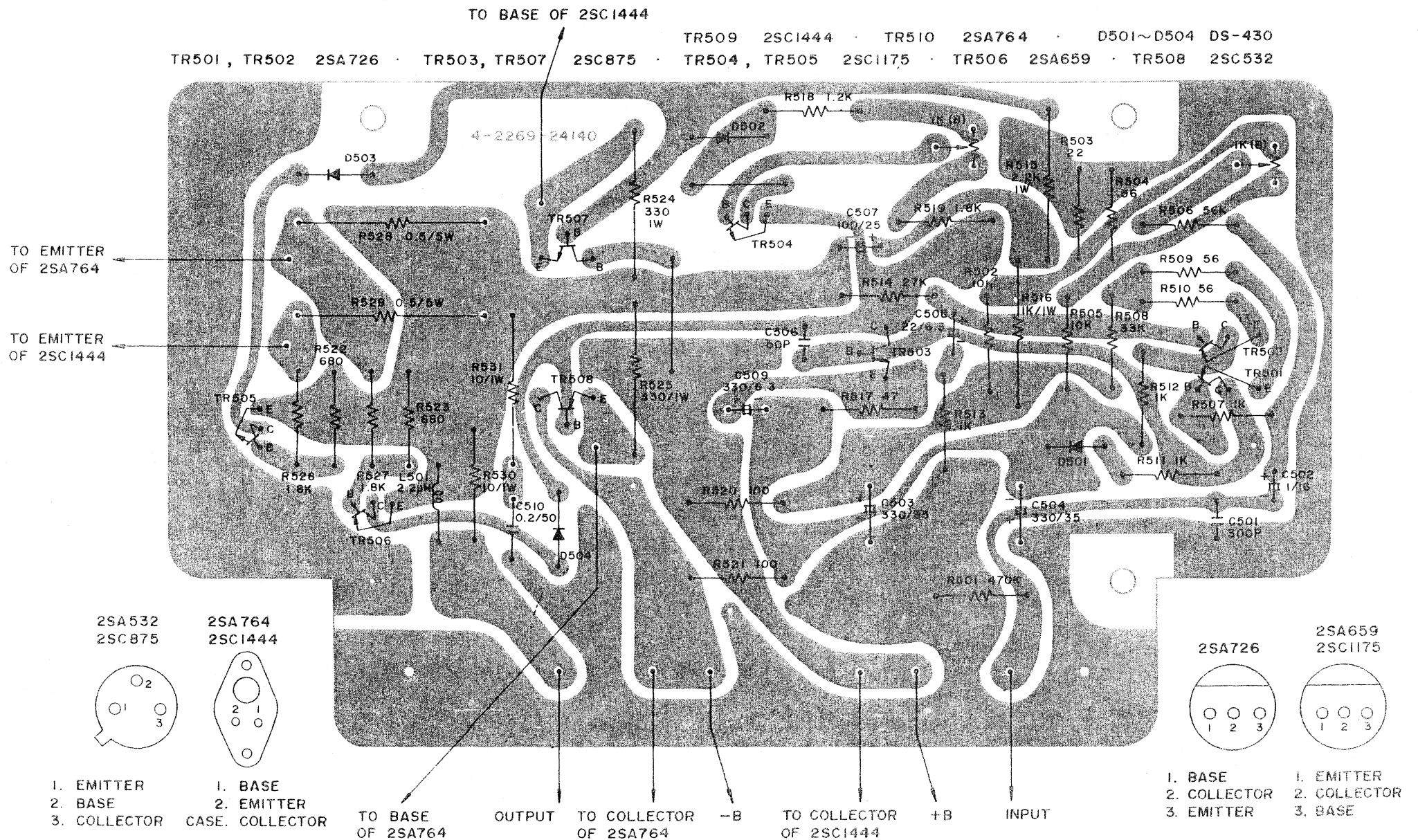


PARTS LIST

Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
MAIN AMP P.C.B ASSY				MAIN AMP P.C.B ASSY			
121	131 0 4001 33001	Main AMP P.C.B. assy	1	R524,525		Carbon 330 ohm ±10% 1W	2
L501	4 2229 22910	Semi-fixed VR B-1K ohm	2	R522,523		Carbon 680 ohm ±10% ¼W	2
	4 2539 20160	Choke coil 2.2µF	1	R516		Carbon 1K ohm ±10% 1W	1
	131 2 3614 13400	Mount, P.C.B.	2	R507,511		Carbon 1K ohm ±10% ¼W	4
	131 2 3701 12900	Mount, electric part	1	512,513			
	131 2 3701 13000	Mount, electric part	1	R518		Carbon 1.2K ohm ±10% ¼W	1
	131 2 6201 19300	Plate, heat sink	1	R519,526,527		Carbon 1.8K ohm ±10% ¼W	3
(CAPACITORS)				(SEMICONDUCTORS)			
C506		Ceramic 50pF ±20% 50V	1	TR510		Transistor 2SA764	1
C501		Ceramic 300pF ±20% 50V	1	TR509		Transistor 2SC1444	1
C510		Mylar 0.22µF ±10% 50V	1	TR501,502		Transistor 2SA726	2
C502		Electrolytic 1µF 16V	1	TR503,507	203 5 4600 87550	Transistor 2SC875 (E)	2
C508		Electrolytic 22µF 6.3V	1	TR504,505	203 5 6701 17540	Transistor 2SC1175 (E)	2
C507		Electrolytic 100µF 25V	1	TR506	203 5 6800 65940	Transistor 2SA659 (D)	1
C509		Electrolytic 330µF 6.3V	1	TR508	203 5 7100 53250	Transistor 2SA532 (E)	1
C503,504		Electrolytic 330µF 35V	2	D501,502,503,504	205 5 9020 43011	Diode DS430	4
(RESISTORS)							
R530,531		Carbon 10 ohm ±10% 1W	2				
R503		Carbon 22 ohm ±10% ¼W	1				
R517		Carbon 47 ohm ±10% ¼W	1				
R504,509,510		Carbon 56 ohm ±10% ¼W	3				
R520,521		Carbon 100 ohm ±10% ¼W	2				

- Notes:**
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MAIN AMP P.C. ASS'Y BOTTOM VIEW

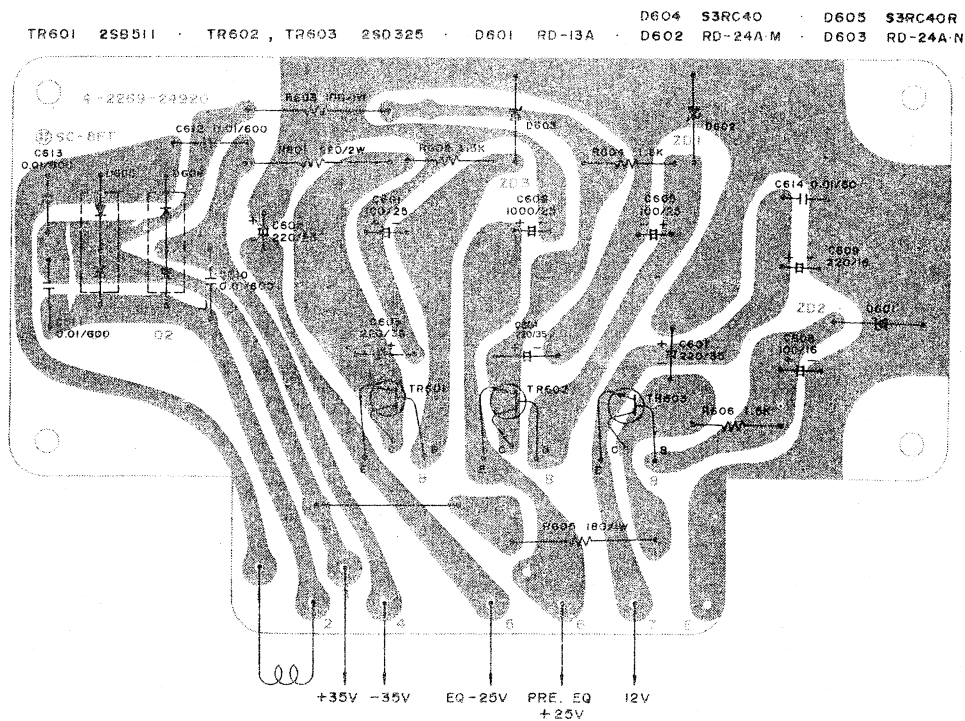


PARTS LIST

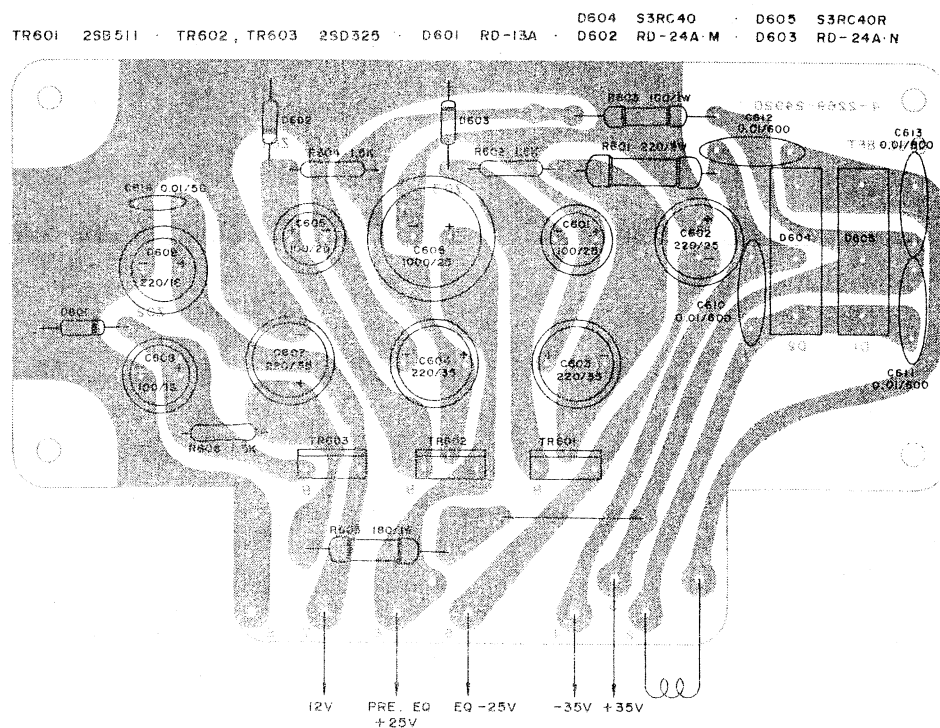
Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
POWER SUPPLY P.C.B. ASSY				POWER SUPPLY P.C.B. ASSY			
124	131 0 4001 40602	Power supply P.C.B. assy	1			(RESISTORS)	
		(CAPACITORS)		R602,604,606		Carbon 1.5K ohm $\pm 10\%$ 1/4W	3
C608		Electrolytic 100 μ F 16V	1	R603		Metal film 100 ohm $\pm 10\%$ 1W	1
C609		Electrolytic 220 μ F 16V	1	R605		Metal film 180 ohm $\pm 10\%$ 1W	1
C606		Electrolytic 1000 μ F 25V	1	R601		Metal film 220 ohm $\pm 10\%$ 2W	1
C601,605		Electrolytic 100 μ F 25V	2			(SEMICONDUCTORS)	
C602		Electrolytic 220 μ F 25V	1	TR601	203 5 6470 51140	Transistor 2SB511	1
C614		Ceramic 0.01 μ F $\pm 10\%$ 50V	1	TR602,603	203 5 8210 32540	Transistor 2SD325	2
C603,604,607		Electrolytic 220 μ F 35V	3	D604		Diode S3RC-40	1
C610,611,612,613		Ceramic 0.01 μ F $\pm 20\%$ 600V	4	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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 3. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

POWER SUPPLY P.C. ASS'Y BOTTOM VIEW



POWER SUPPLY P.C. ASS'Y TOP VIEW



PARTS LIST

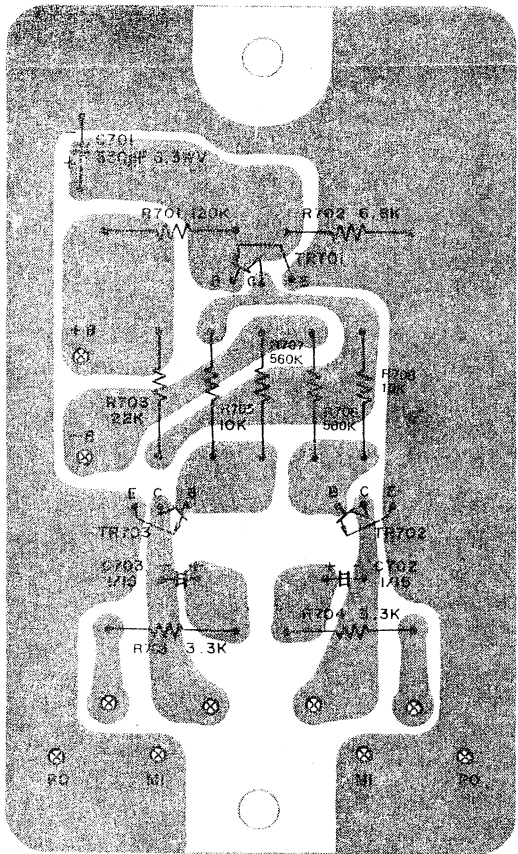
Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
MUTING P.C.B. ASSY				SWITCH P.C.B. ASSY			
127	131 0 4001 41600	Muting P.C.B. assy	1	126	131 0 4001 41700 4 2319 23190	Switch P.C.B. assy Switch, push 7 keys	1 1
C702,703 C701		(CAPACITORS) Electrolytic 1 μ F 16V Electrolytic 330 μ F 6.3V	2 1	C801,802		(CAPACITOR) Mylar 0.01 μ F \pm 20% 50V	2
R704,709 R702 R703 R708,705 R701 R706,707		(RESISTORS) Carbon 3.3K ohm \pm 10% 1/4W Carbon 6.8K ohm \pm 10% 1/4W Carbon 22K ohm \pm 10% 1/4W Carbon 10K ohm \pm 10% 1/4W Carbon 120K ohm \pm 10% 1/4W Carbon 560K ohm \pm 10% 1/4W	2 1 1 2 1 2	R801,802		(RESISTOR) Carbon 2.7K ohm \pm 10% 1/4W	2
TR702,703 TR701	203 5 5100 53650 203 5 6701 17550	Transistor 2SC536 (F) Transistor 2SC1175 (E)	2 1	DIAL LAMP P.C.B. ASSY			
				125	131 0 4001 42000 4 2359 20930 4 6129 20280 4 6129 20360	Dial lamp P.C.B. assy Fuse holder Pilot lamp Pilot lamp, pointer Resistor, Carbon 6.8 ohm \pm 10% 1/4W	1 10 5 1 1
				R001			

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**MUTING P.C. ASS'Y
BOTTOM VIEW**

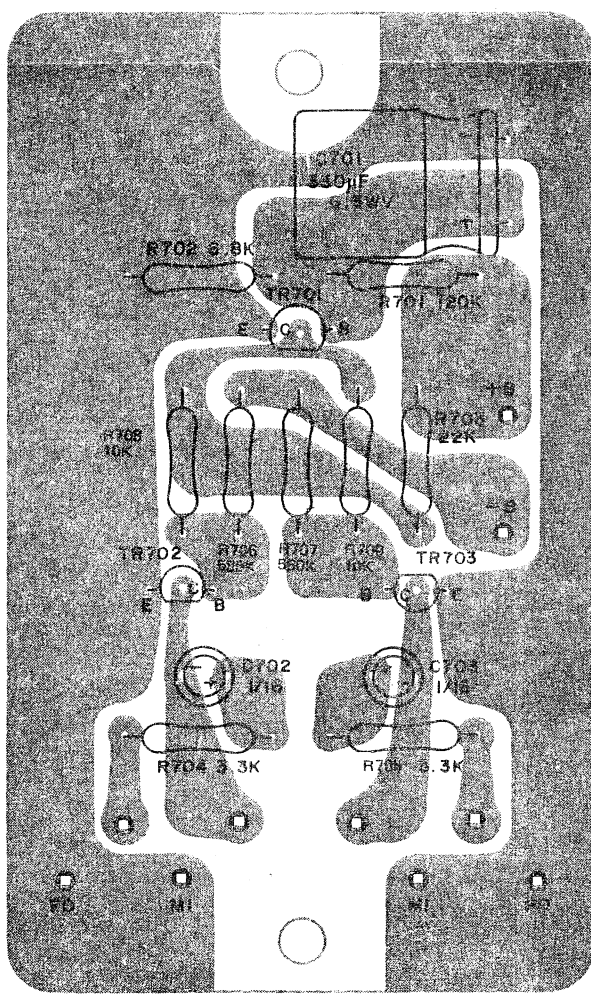
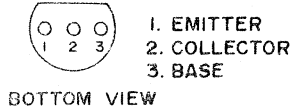
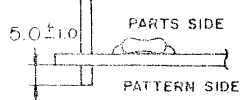
**MUTING P.C. ASS'Y
TOP VIEW**

**SWITCH P.C. ASS'Y
BOTTOM VIEW**

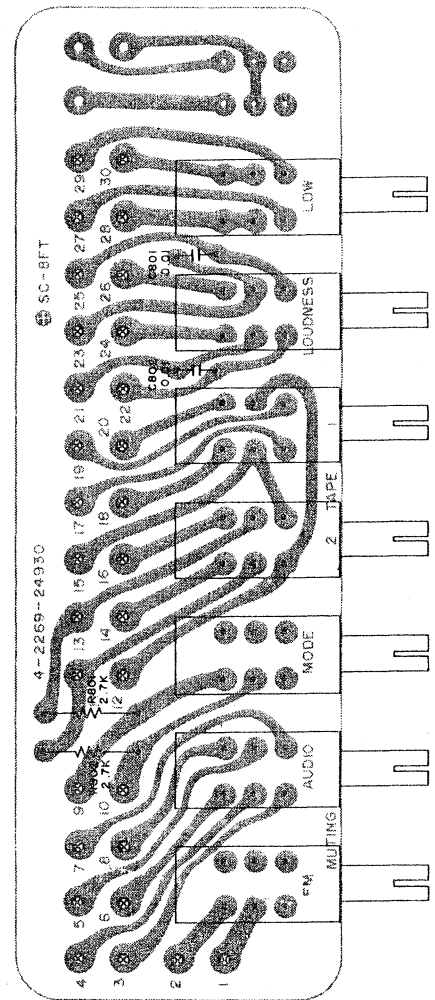


TR701 2SC1175 · TR702, TR703 2SC536

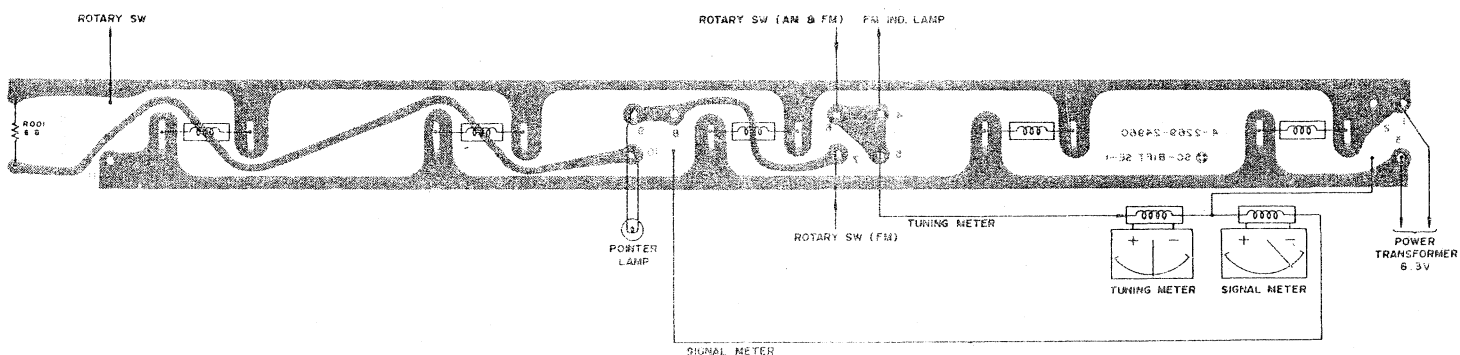
WIRE WRAP TERMINAL (IO) 2SC536, 2SC1175

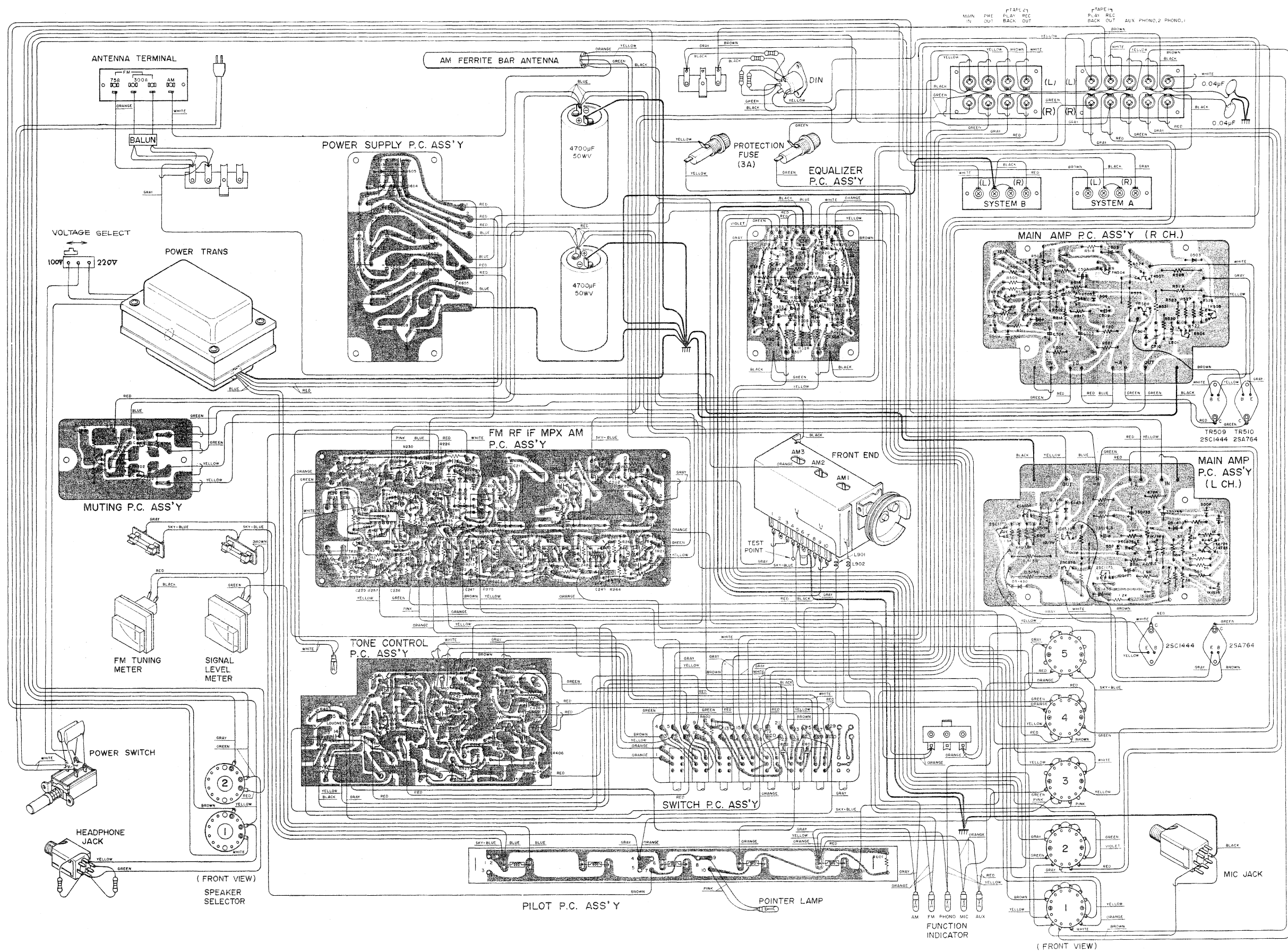


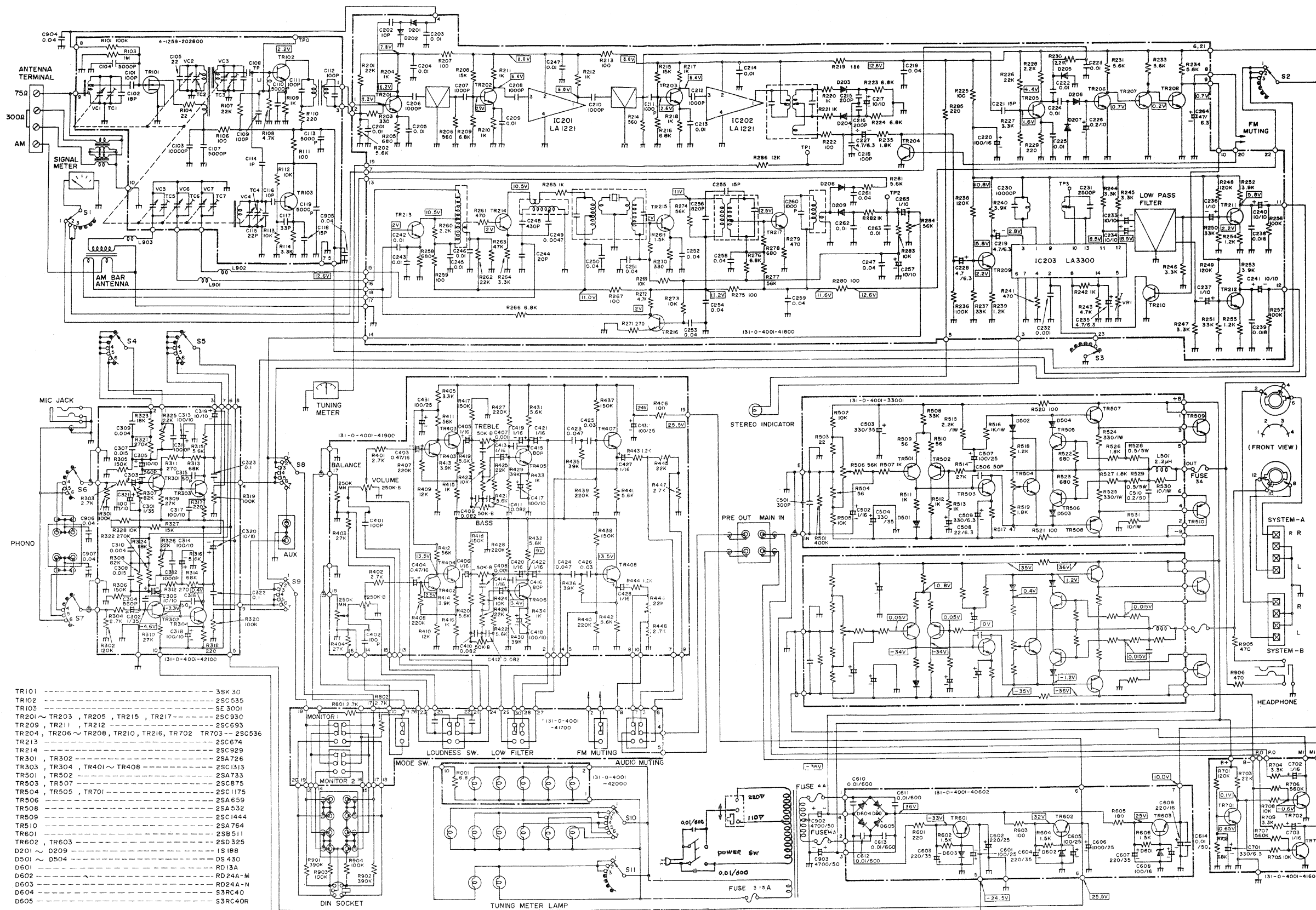
TR701 2SC1175 · TR702, TR703 2SC536



DIAL LAMP P.C. ASS'Y BOTTOM VIEW







TR101	3SK30
TR102	2SC535
TR103	SE3001
TR201 ~ TR203, TR205, TR215, TR217	2SC930
TR209, TR211, TR212	2SC693
TR204, TR206 ~ TR208, TR210, TR216, TR702	2SC536
TR213	2SC674
TR214	2SC929
TR301, TR302	2SA726
TR303, TR304, TR401 ~ TR408	2SC1313
TR501, TR502	2SA733
TR503, TR507	2SC875
TR504, TR505, TR701	2SC1175
TR506	2SA659
TR508	2SA532
TR509	2SC1444
TR510	2SA764
TR601	2SB511
TR602, TR603	2SD325
D201 ~ D209	1S188
D501 ~ D504	DS430
D601	RD13A
D602	RD24A-M
D603	RD24A-N
D604	53RC40
D605	53RC40R

SELECTOR SWITCH (Position 1)
 1: AM
 2: FM MONO
 3: FM STEREO
 4: PHONO 1
 5: PHONO 2
 6: MIC
 7: AUX
 S1: SIGNAL METER (AM/FM)
 S2: AM/FM POWER SW
 S3: FM (MONO/AUTO)
 S4, S5: EQ SW. (PHONO/MIC)
 S6, S7: EQ INPUT SW. (PHONO/MIC)
 S8, S9: INPUT SELECT SW.
 S10: SELECT POSITION INDICATOR

S11: METER AND POINTOR SW. (AM, FM)

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