



SANYO STEREO RECEIVER DCX 2000L SERVICE MANUAL



SPECIFICATIONS

AUDIO SECTION

Continuous Power Output:
 Amplifier load at 8 ohms (1KHz, each channel driven) 17W/17W
 Amplifier load at 8 ohms (1KHz, both channel driven) 15W/15W
 Power Output in the range of 20 to 20KHz
 Amplifier load at 8 ohms (Both channel driven) 13W/13W

Harmonic Distortion: Less than 0.8% (Continuous Power)
 Intermodulation Distortion: Less than 0.8% (Continuous Power)
 Power Bandwidth: 20 to 40KHz (both channel driven)
 Frequency Response: 20 to 45KHz ± 3 dB (AUX INPUT)
 Matching Speaker Impedance: 4 to 16 ohms

Signal to Noise:

PHONO More than 65 dB

(IHF, B network)

MIC More than 65 dB

(IHF, B network)

AUX More than 80 dB

TAPE More than 80 dB

(IHF, B network)

TAPE REC RCA : 180mV/1K ohms

TAPE REC DIN : 35mV/35K ohms Terminate

Output Level/Impedance:

Tone Control:

Bass Control:

100Hz, ± 10 dB

Trable Contorl:

10KHz, ± 10 dB

Filter Control:

High Filter:

10 KHz (-6dB/oct.)

Loudness Control:

100Hz, +8dB

(Power output level at -30dB)

10KHz, +3dB

PRE-AMPLIFIER SECTION

Input Sensivity/Impedance:
 (1KHZ, at rated power)

PHONO : 2.5mV/50K ohms

AUX : 180mV/50K ohms

TAPE (RCA,

DIN) : 180mV/50K ohms

MIC : 2.5mV/50K ohms

MISCELLANEOUS

Power Requirements:

110V/220V 50Hz (SWITCHABLE)

Dimensions (overall):

Width 455 mm

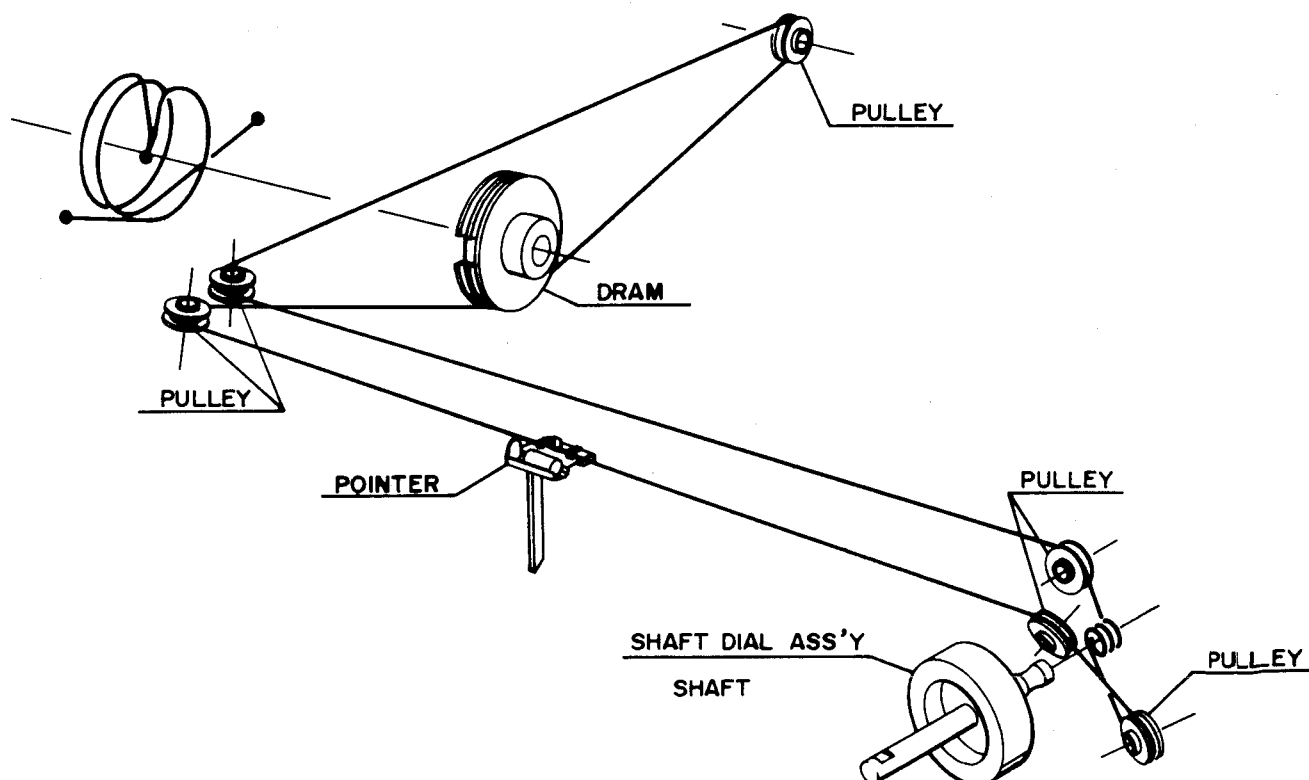
Height 148 mm

Depth 340 mm

Weight: (Approx.)

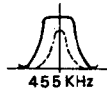
Without Package 8.8 Kg

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 VC4.	Connect oscilloscope to test point TP7.	455 KHz	Near max. capacity of VC. at position with no unrequired signal.	AM 1st 9-20970 (Red)	
2	MW	Connect standard loop antenna to output terminals of SG. Place receiver 2 feet from loop antenna.	Connect V.T.V.M. to speaker terminals.	600 KHz (400Hz 30% modulation)	600 KHz	MW OSC 9-20690	Max.
3				1400 KHz (400Hz 30% modulation)	1400 KHz	TC 8	
4	LW			150 KHz (400Hz 30% modulation)	150 KHz	LW OSC 9-20720	Max.
5				350 KHz (400Hz 30% modulation)	350 KHz	TC 7, TC 9	
6	Repeat adjustments.						

PREPARE

1. Variable capacitor completely closed.
2. Set the dial pointer to very left line dial scale.
3. Connect sweep generator, S.G., V.T.V.M. and oscilloscope.

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 TP1 through 0.01 μ F	Connect oscilloscope to test point TP2.	10.7 MHz (none modulation)	Near max. capacity of VC. at position with no unrequired signal.	FM 1st 9-21040 (Violet) 9-21050 (Orange) FM 2nd FM 3rd 9-21080 9-21060 9-21090 9-21070	
2	Ratio Det.		Connect oscilloscope to test point TP3.			FM DET 9-20850 (Pink) 9-20860 (Blue)	
3	RF	Connect FM SG. to FM aerial terminals.	Connect V.T.V.M. to speaker terminal.	90 MHz (400 Hz, 30% modulation)	90 MHz	FM aerial 9-21090 FM OSC 9-20460 FM RF 9-20330	Max.
4				106 MHz (400 Hz, 30% modulation)	106 MHz	TC1 TC2 TC3	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 aerial input impedance is 300 ohm.
4. Function switch to "FM"
5. Use a screwdriver with plastic grip for all adjustments.

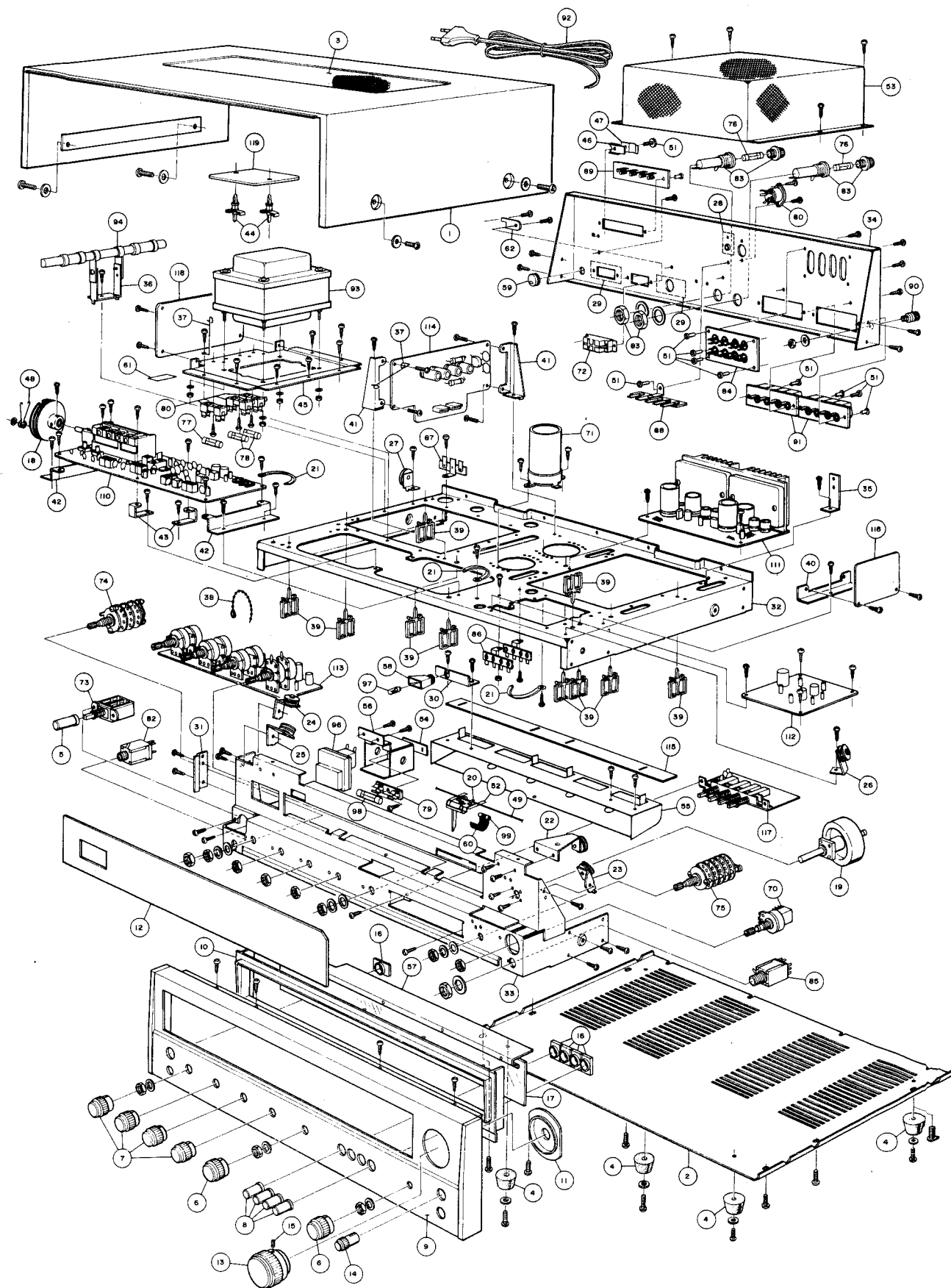
FM MPX ADJUSTMENT

Step	Adjusting circuit	Connections		Position of tuning dial	Adjustment	V.T.V.M.
		Input	Output			
1	SCA signal filter (67 KHz)	Add SCA signal to FM stereo SG. and connect to FM aerial terminals. FM stereo signal OFF.	Connect V.T.V.M. to test point TP4.	Near max. capacity of VC. at position with no unrequired signal.	67 KHz 9-20142 (Red)	Min.
2	38 KHz	Connect FM stereo SG to FM aerial terminals. 19 KHz signal ON. Main channel, sub channel signal ON. Add 1000 Hz signal from L Ch.	Connect V.T.V.M. to test point TP6.		38 KHz 9-20210 (Black) 9-20222 (White)	Max.
3	FM stereo signal separation		Connect V.T.V.M. to R speaker terminal.			
4		Connect FM stereo SG to FM aerial 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 speaker terminal.		38 KHz 9-20210 (Black)	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. Function 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	Aerial FM	1
	131 6 1139 43008	Box, Corrugate exp.	1
	131 6 2119 01361	Bag, Polyethylene exp.	1
	131 6 2719 10600	Bag, Fan	1
	131 6 3009 17640	Pad	2
	131 6 4119 31002	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 1801 13100	Leg, Rubber	4
	131 2 4203 84204	Washer, 4.2 x 14 x 1	4
		Screw, Pan Hd. 4 x 10	6
		Screw, Pan Hd. 4 x 16	4
		Screw, Truss Hd. 4 x 16	4
		Screw, Pan Hd. tapping 3 x 6	4
APPEARANCE			
5	131 0 1001 23300	Knob assy, Power	1
8	131 0 1001 28002	Knob assy, Push	6
6	131 0 1001 23500	Knob assy, Volume, Function	2
7	131 0 1001 23600	Knob assy, SP, Balance, Bass, Treble	4
9	131 0 1016 16202	Panel Decorate assy	1
10	131 2 1116 11700	Frame	1
11	131 2 1116 11800	Frame	1
12	131 2 1201 22602	Plate dial	1
13	131 2 1601 26400	Knob, Tuning	1
14	131 2 1601 26900	Knob, Mic.	1
15	131 2 4201 12400	Screw, Tuning knob	1
16	131 2 6111 12600	Bushing	5
17	131 2 6308 15000	Filter	1
CHASSIS			
18	131 0 3002 10800	Drum assy	1
19	131 0 3003 15400	Shaft dial assy	1
20	131 0 3011 13600	Pointer assy	1
21	131 0 3016 10400	Cramp wire assy	3
22	131 0 3020 02000	Pully assy	1
23	131 0 3020 02100	Pully assy	1
24	131 0 3020 02200	Pully assy	1
25	131 0 3020 02300	Pully assy	1
26	131 0 3020 02400	Pully assy	1
27	131 0 3020 05300	Pully assy	1
28	131 2 1110 12100	Plate decorate	1
29	131 2 1110 16100	Plate decorate	2
30	131 2 3101 19700	Metal mount, FM stereo ind.	1
31	131 2 3101 19900	Metal mount, Plate dial	1
32	131 2 3301 18800	Chassis	1
33	131 2 3305 15900	Panel, Front	1
34	131 2 3306 15502	Panel, Rear	1
37	131 2 3608 11200	Cramp wire	2
38	131 2 3608 11700	Cramp wire	3
39	131 2 3608 11701	Cramp wire	9
40	131 2 3614 13100	Mount, Mic Amp. P.C.B.	1
41	131 2 3614 13300	Mount, Power P.C.B.	2
42	131 2 3614 15000	Mount, IF P.C.B.	2
43	131 2 3614 15100	Mount, IF P.C.B.	2
45	131 2 3617 14100	Metal mount, Trans	1
46	131 2 3621 00400	Metal, Cramp wire	1
47	131 2 3621 00500	Metal, Cramp wire	1
48	131 2 4111 00300	Rope spring	1
49	131 2 4112 10300	Rope	1
51	131 2 4221 00100	Rivet	11
52	131 2 5205 12000	Cushion	1
53	131 2 6103 13000	Cover, Shield	1
54	131 2 6107 13900	Plate sever, Meter lamp holder	1
55	131 2 6110 19800	Shelter light, Dial	1
56	131 2 6110 19900	Shelter light, Tuning meter	1
57	131 2 6110 20000	Shelter light, Frame up	1

Key No.	Part No.	Description	Q'ty
CHASSIS			
58	131 2 6110 20100	Shelter light, FM stereo ind.	1
59	131 2 6111 11300	Bushing, Power cord	1
60	131 2 6308 12400	Filter, Pointer lamp	1
35	131 2 3603 10700	Metal mount, Antenna	1
36	131 2 3603 12900	Metal mount, Antenna	1
44	131 2 3614 16800	Mount, RF AMP PCB	2
50	131 2 4201 12701	Screw	1
61	131 2 7103 20300	Label	1
62	131 2 7104 00101	Plate Pad switch	1
ELECTRICAL PARTS			
70	4 2229 23490	VR B-10K Mic VR	1
71	4 2239 20590	Elect Capacitor 3300μF 50V C901	1
72	4 2319 21530	Switch, Power select	1
73	4 2319 23090	Switich, Push, power	1
74	4 2319 23110	Switch rotary, SP select	1
75	4 2319 23770	Switch rotary, Function	1
76	4 2349 20010	Fuse 1.5A, Protector	2
77	4 2349 20520	Fuse 1A	1
78	4 2349 20570	Fuse 2.5A Secondary	2
79	4 2359 20160	Fuse Holder, Tuning meter lamp	1
80	4 2359 20190	Socket 5P DIN	1
81	4 2359 21020	Socket, Secondary	3
82	4 2359 21080	Jack, Headphone	1
83	4 2359 21110	Fuse Holder	1
84	4 2359 21260	Socket phono 8P, input terminal	1
85	4 2359 21670	Jack, Mic	1
86	4 2379 20120	Terminal base	2
87	4 2379 20140	Terminal lug 2P	1
88	4 2379 20410	Terminal lug 1-4PL	1
89	4 2379 21050	Terminal antenna	1
90	4 2379 21060	Terminal G	1
91	4 2379 21210	Terminal SP 4P	2
92	4 2439 20521	Power cord	1
93	4 2519 23260	Power Trans, 110-220	1
94	4 2579 21002	Bar ant AM(LW, MW) L901	1
95	4 2659 20190	Multiplex coil L903	1
96	4 5119 20340	Meter, Tuning	1
97	4 6129 20133	Pilot lamp, stereo ind	1
98	4 6129 20280	Pilot lamp, Tuning meter	1
99	4 6129 20360	Pilot lamp, Dial pointer	1
CAPACITOR			
C907		Mylar 0.068μF 50V ±20%	1
C902,C903		MP 0.01μF 250V ±20%	2
C904,905		Ceramic 0.04μF 50V P+100% -0%	2
RESISTORS			
R901,907		Carbon 820 ohm 1/4W ±10%	1
R902		Carbon 1K ohm 1/4W ±10%	2
R903		Carbon 18K ohm 1/4W ±10%	1
R910,911		Carbon 47K ohm 1/4W ±10%	2
R908,909		Carbon 100K ohm 1/4W ±10%	2
		Carbon 330K ohm 1/4W ±10%	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.

PARTS LIST

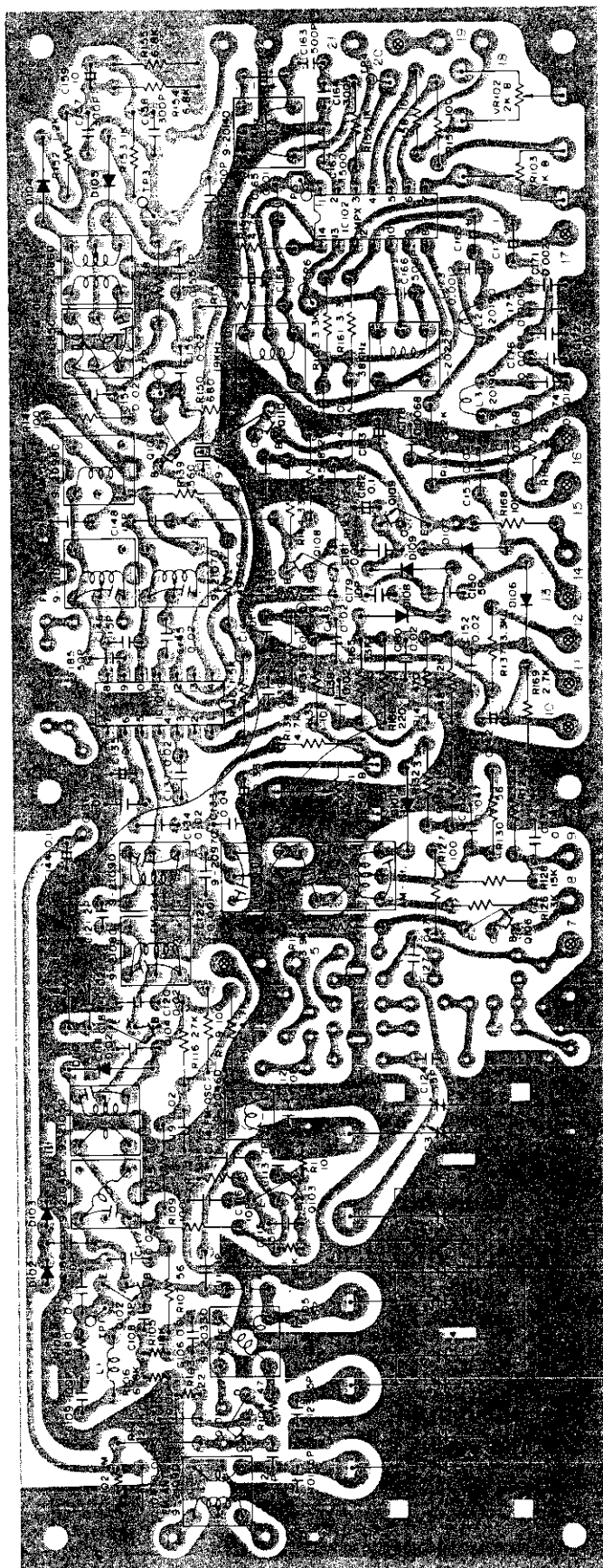
Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
RF. IF. MPX P.C.B. ASSY				RF. IF. MPX P.C.B. ASSY			
110	131 0 4001 40306	RF, IF, MPX. P.C.B. assy	1	C140		Electrolytic 33μF 10V	1
VR103	4 2229 22950	Variable resistor, 1K-B	1	C164		Styrol 300PF ±10% 35V	1
VR101	4 2229 23450	Potentiometer B-50K	1	C163		Styrol 500PF ±10% 35V	1
VR102	4 2229 23580	Variable resistor, 2K-B	1	C167		Styrol 1500PF ±10% 35V	1
L1	4 2249 20490	Variable capacitor	1	C166		Styrol 2500PF ±10% 35V	1
	4 2279 20160	Ceramic filter 10.7MHz	1	C165		Styrol 10000PF ±10% 35V	1
	4 2379 21120	Terminal, Test point	8	C144,182		Alsicon 0.1μF ±20% 10V	2
	4 2539 20180	IF Trap	1	C142,162,		Alsicon 1μF ±20% 10V	4
	4 2569 20850	Voice IF Trans	1	169,170			
	4 2569 20860	Voice IF Trans	1	C103,104,		Ceramic 0.01μF +80 -20% 25V	5
	4 2569 20970	IF trans, AM 1st.	1	106,110,			
	4 2569 20980	IF trans, AM 2nd.	1	114			
	4 2569 21040	IF trans, FM 1st.	1	C118,119,		Ceramic 0.02μF +80 -20% 25V	19
	4 2569 21050	IF trans, FM 1st.	1	120,117,			
	4 2569 21060	IF trans, FM 3rd.	1	134,136,			
	4 2569 21070	IF trans, FM 3rd.	1	137,138			
	4 2569 21080	IF trans, FM 2nd.	1	151,145,			
	4 2569 21090	IF trans, FM 2nd.	1	147,149,			
	4 2579 21090	Aerial coil, FM	1	152,153,			
L2,3	4 2589 20460	OSC coil, FM	1	154,156,			
	4 2599 20330	RF coil, FM	1	184,180,			
	4 2659 20140	Multiplex coil, 67kHz	1	181			
	4 2659 20190	Multiplex coil	2	C133		Ceramic 0.04μF +80 -20% 25V	1
	4 2659 20210	Multiplex coil, 19kHz	1				
	4 2659 20220	Multiplex coil, 38kHz	1				
SEMICONDUCTORS				RESISTORS			
Q102	203 5 4510 66840	Transistor 2SC 668 (N-D-RF) or (N-E-RF)	1	R103		Carbon 22 ohm ±10% 1/4W	1
Q109,110	203 5 5100 53740	Transistor 2SC 537 (D) or (E)	2	R104		Carbon 47 ohm ±10% 1/4W	1
Q106	203 5 5510 92940	Transistor 2SC 929 (D) or (E)	1	R107,130		Carbon 56 ohm ±10% 1/4W	2
Q104,108	203 5 5510 93040	Transistor 2SC 930 (N-D)	2	R156		Carbon 68 ohm ±10% 1/4W	1
Q103,107	203 5 5510 93050	Transistor 2SC 930 (E)	2	R109,115,		Carbon 100 ohm ±10% 1/4W	9
Q101	203 5 6500 04160	Transistor 2SK 41 (F)	1	119,127,			
D101,102,	202 5 9110 18820	Diode 1S188 (FMI)	9	141,142,			
103,104,				151,158,			
105,106,				159			
107,108,				R166		Carbon 220 ohm ±10% 1/4W	1
109				R146		Carbon 330 ohm ±10% 1/4W	1
D110	205 5 9040 44210	Diode DS-442	1	R147		Carbon 470 ohm ±10% 1/4W	1
IC101	206 5 0081 20122	IC LA1201 (B-H)	1	R136,139,		Carbon 560 ohm ±10% 1/4W	4
IC102	206 5 0663 30010	IC LA3300	1	149,150			
CAPACITORS				R108		Carbon 680 ohm ±10% 1/4W	1
C111,155		Ceramic 1PF ±0.25pF 50V	2	R131,153,		Carbon 1K ohm ±10% 1/4W	3
C121		Ceramic 2PF ±0.25pF 50V	1	157			
C108		Ceramic 3PF ±0.25pF 50V	1	R152		Carbon 1.2K ohm ±10% 1/4W	1
C107		Ceramic 4PF ±0.25pF 50V	1	R140		Carbon 1.5K ohm ±10% 1/4W	1
C123		Ceramic 5PF ±5% 50V	1	R118		Carbon 1.8K ohm ±10% 1/4W	1
C113		Ceramic 7PF ±0.25pF 50V	1	R148		Carbon 2K ohm ±10% 1/4W	1
C150		Ceramic 10PF ±0.25pF 50V	1	R163,		Carbon 2.2K ohm ±10% 1/4W	2
C116,186,		Ceramic 10PF ±5% 50V	3	164			
179				R169		Carbon 2.7K ohm ±10% 1/4W	1
C115,146,		Ceramic 15PF ±5% 50V	3	R112		Carbon 3.3K ohm ±10% 1/4W	1
148				R126,		Carbon 3.3K ohm ±10% 1/4W	5
C124		Ceramic 5PF ±0.25PF 50V	1	137,161,			
C101,105		Ceramic 15PF ±10% 50V	2	162,167			
C102,185		Ceramic 50PF ±10% 50V	2	R125,132		Carbon 3.9K ohm ±10% 1/4W	2
C109,161		Ceramic 100PF ±10% 50V	2	R117,129,		Carbon 4.7K ohm ±10% 1/4W	4
C157,158		Ceramic 300PF ±10% 50V	2	134,160			
C122		Mylar 0.001μF ±20% 50V	1	R111		Carbon 5.6K ohm ±10% 1/4W	1
C173,174		Mylar 0.0012μF ±20% 50V	2	R106		Carbon 6.8K ohm ±10% 1/4W	1
C171,172		Mylar 0.0027μF ±20% 50V	2	R154,155		Carbon 6.8K ohm ±10% 1/4W	2
C175,176		Mylar 0.0068μF ±20% 50V	2	R145		Carbon 8.2K ohm ±10% 1/4W	1
C139,141,		Mylar 0.01μF ±20% 50V	2	R110		Carbon 10K ohm ±10% 1/4W	1
C177,178,		Mylar 0.0068μF ±20% 50V	2	R135,168		Carbon 10K ohm ±10% 1/4W	2
C131,132		Mylar 0.047μF ±20% 50V	2	R128		Carbon 15K ohm ±10% 1/4W	1
C112		Ceramic 25PF ±5% 50V	1	R105		Carbon 18K ohm ±10% 1/4W	1
C183		Electrolytic 1μF 10V	1	R116		Carbon 27K ohm ±10% 1/4W	1
C135,159,		Electrolytic 10μF 10V	4	R144,165		Carbon 33K ohm ±10% 1/4W	2
160,168				R101		Carbon 120K ohm ±10% 1/4W	1
				R102		Carbon 1M ohm ±10% 1/4W	1
				R143		Carbon 820 ohm ±10% 1/4W	1

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.

RF. IF. MPX. P.C.B. BOTTOM VIEW



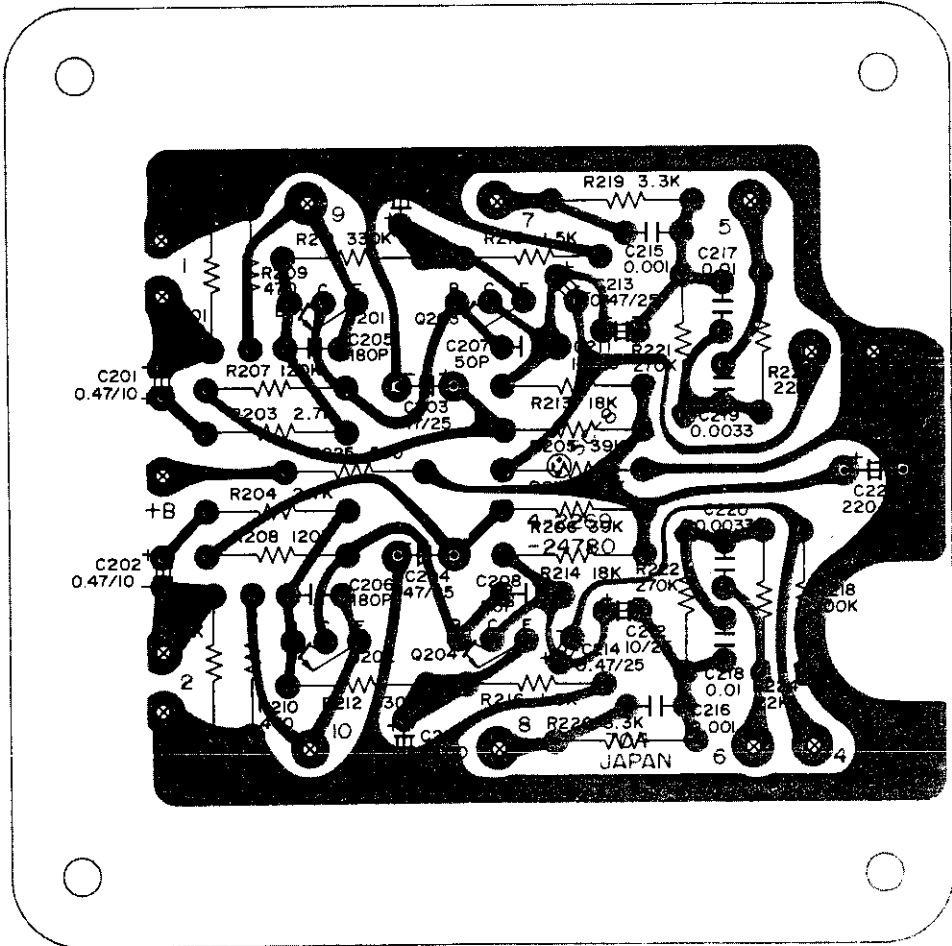


PARTS LIST

Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
EQUALIZER P.C.B. ASSY				EQUALIZER P.C.B. ASSY			
112	131 0 4001 39000	Equalizer P.C.B. Assy	1	RESISTORS			
CAPACITORS				R209,210	Carbon 470 ohm	±10% 1/4W	2
C207,208		Ceramic 50PF ±10% 50V	2	R225	Carbon 560 ohm	±10% 1/4W	1
C205,206		Ceramic 180PF ±10% 50V	2	R215,216	Carbon 1.5K ohm	±10% 1/4W	2
C215,216		Ceramic 470PF ±10% 50V	2	R203,204	Carbon 2.7K ohm	±10% 1/4W	2
C219,220		Mylar 0.0033µF ±10% 50V	2	R219,220	Carbon 3.3K ohm	±10% 1/4W	2
C217,218		Mylar 0.01µF ±10% 50V	2	R213,214	Carbon 18K ohm	±10% 1/4W	2
C211,212		Electrolytic 10µF 25V	2	R223,224	Carbon 22K ohm	±5% 1/4W	2
C209,210		Electrolytic 33µF 10V	2	R205,206	Carbon 39K ohm	±10% 1/4W	2
C203,204		Electrolytic 47µF 25V	2	R201,202	Carbon 56K ohm	±10% 1/4W	2
C221		Electrolytic 220µF 25V	1	R217,218	Carbon 100K ohm	±10% 1/4W	2
C201,202		Alsicon 0.47µF ±20% 10V	2	R207,208	Carbon 120K ohm	±10% 1/4W	2
C213,214		Alsicon 0.47µF ±20% 25V	2	R221,222	Carbon 270K ohm	±5% 1/4W	2
				R211,212	Carbon 330K ohm	±10% 1/4W	2
				SEMICONDUCTORS			
				Q201,202, 203,204	203 5 5100 69369	Transistor 2SC 693 F-1	4

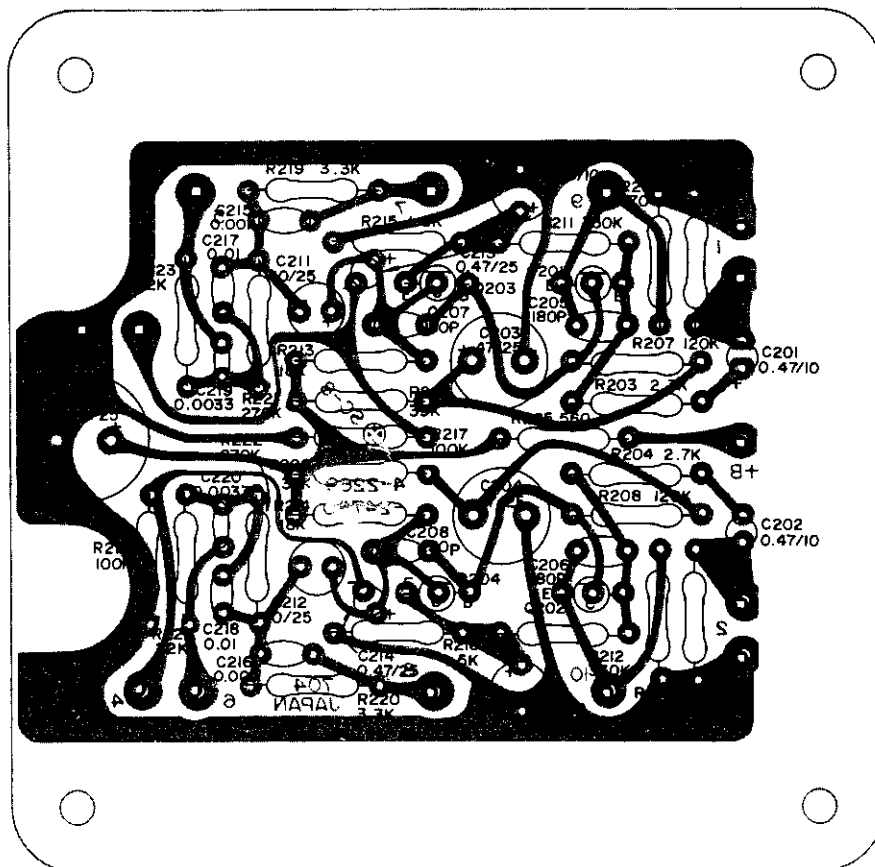
- NOTES: 1. Part orders must contain Model Number, Part Number and Description.
2. Unless otherwise noted, component parts indicated by parentheses in the column Q'ty are not available.
3. Ordering quantity of resistors and screws must be multiple of 10 pcs.

EQUALIZER P.C.B. ASSY BOTTOM VIEW



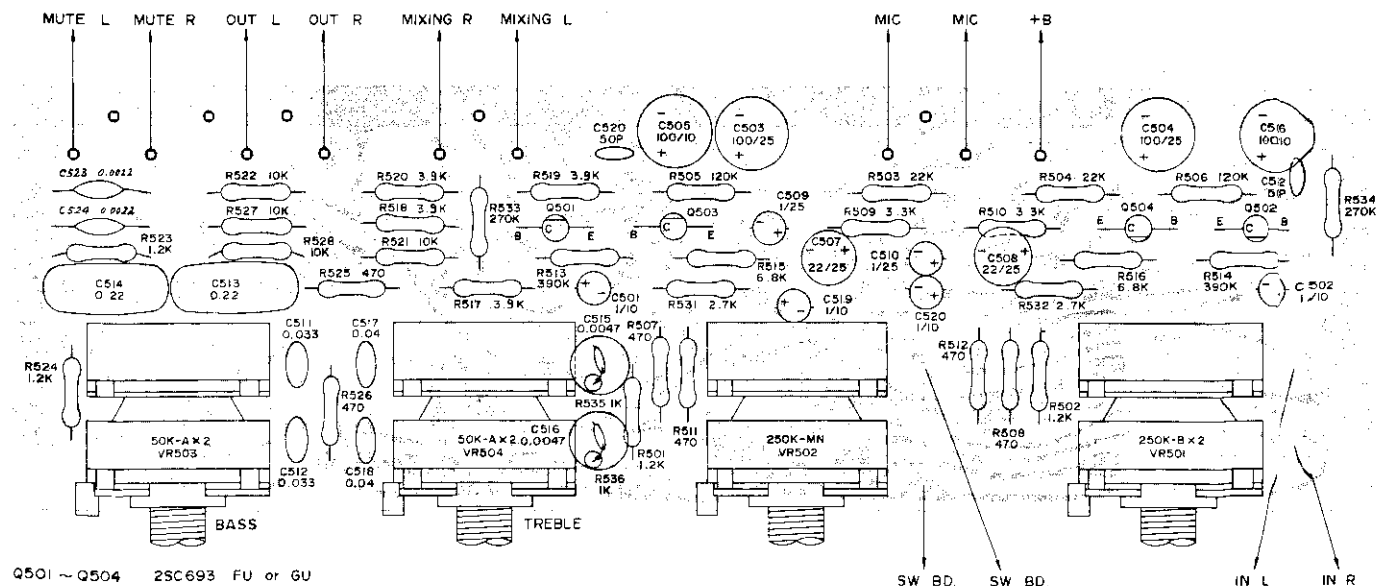
Q201 ~ Q204 2SC693 FL or 2SC1312 F

EQUALIZER P.C.B. ASSY TOP VIEW



Q201 ~ Q204 2SC693 FL or 2SC1312 F

PRE AMP P.C.B. ASSY TOP VIEW



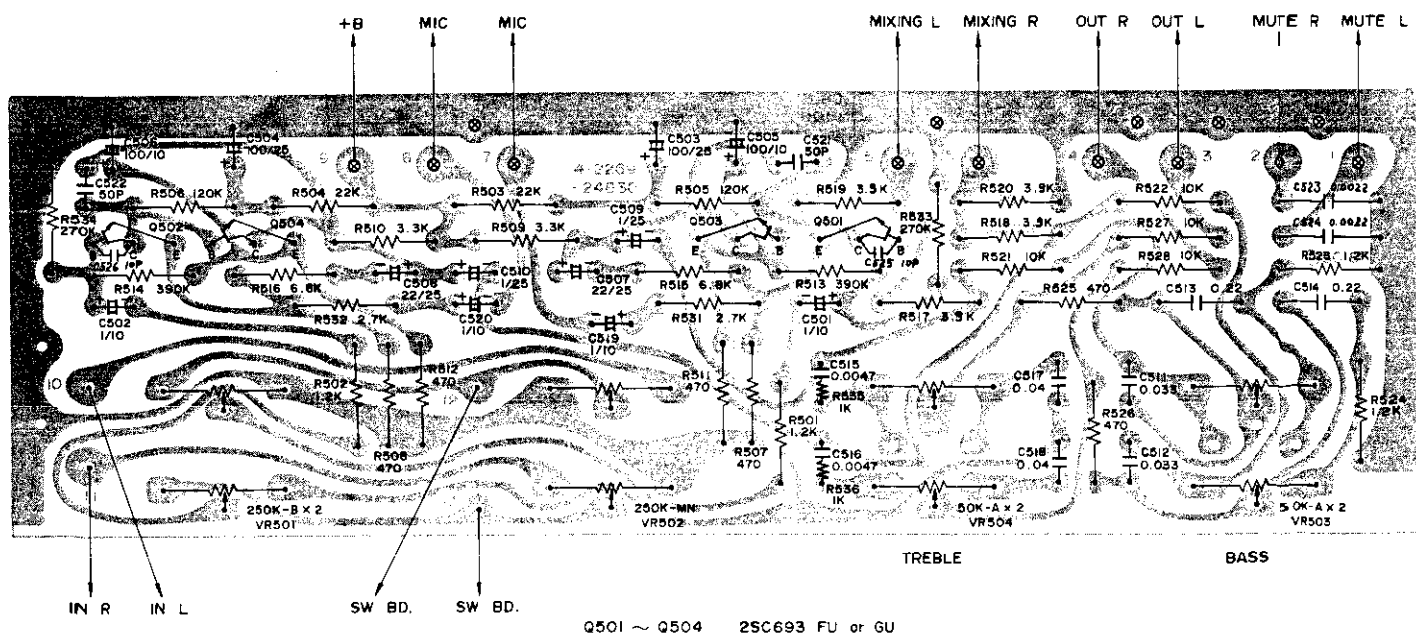
Q501 ~ Q504 2SC693 FU or GU

PARTS LIST

Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
PRE AMP. P.C.B. ASSY				PRE AMP. P.C.B. ASSY			
113	131 0 4001 39202	Pre Amp P.C.B. assy	1	RESISTORS			
VR501	4 2229 23460	VR 250K-B Volume	1	R507,508, 511,512, 525,526		Carbon 470 ohm $\pm 10\%$ 1/4W	6
VR502	4 2229 23470	VR 250K-MN Balance	1	R535,536		Carbon 1K ohm $\pm 10\%$ 1/4W	2
VR503,504	4 2229 23480	VR 50K-A x 2, Bass, Treble	2	R501,502, 523,524		Carbon 1.2K ohm $\pm 10\%$ 1/4W	4
CAPACITORS				R531,532		Carbon 2.7K ohm $\pm 10\%$ 1/4W	2
C525,526		Ceramic 10PF $\pm 10\%$ 50V	2	R517,518, 519,520, R509,510		Carbon 3.9K ohm $\pm 10\%$ 1/4W	4
C521,522		Ceramic 50PF $\pm 10\%$ 50V	2	R515,516		Carbon 3.3K ohm $\pm 10\%$ 1/4W	2
C515,516		Mylar 0.0047 μ F $\pm 20\%$ 50V	2	R521,522		Carbon 6.8K ohm $\pm 10\%$ 1/4W	2
C511,512		Mylar 0.033 μ F $\pm 20\%$ 50V	2	527,528		Carbon 10K ohm $\pm 10\%$ 1/4W	4
C517,518		Mylar 0.04 μ F $\pm 20\%$ 50V	2	R503,504		Carbon 22K ohm $\pm 10\%$ 1/4W	2
C513,514		Mylar 0.22 μ F $\pm 20\%$ 50V	2	R505,506		Carbon 120K ohm $\pm 10\%$ 1/4W	2
C509,510		Electrolytic 1 μ F 25V	2	R533,534		Carbon 270K ohm $\pm 10\%$ 1/4W	2
C507,508		Electrolytic 22 μ F 25V	2	R513,514		Carbon 390K ohm $\pm 10\%$ 1/4W	2
C505,506		Electrolytic 100 μ F 10V	2	SEMICONDUCTORS			
C503,504		Electrolytic 100 μ F 25V	2	Q501,502, 503,504	203 5 5100 69362	Transistor 2SC 693 (FU) or (GU)	4
C501,502		Alsicon 1 μ F $\pm 20\%$ 10V	4				
519,520							
C523,524		Mylar 0.0022 μ F $\pm 20\%$ 50V	2				

- Notes:**
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 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.

PRE AMP P.C.B. BOTTOM VIEW

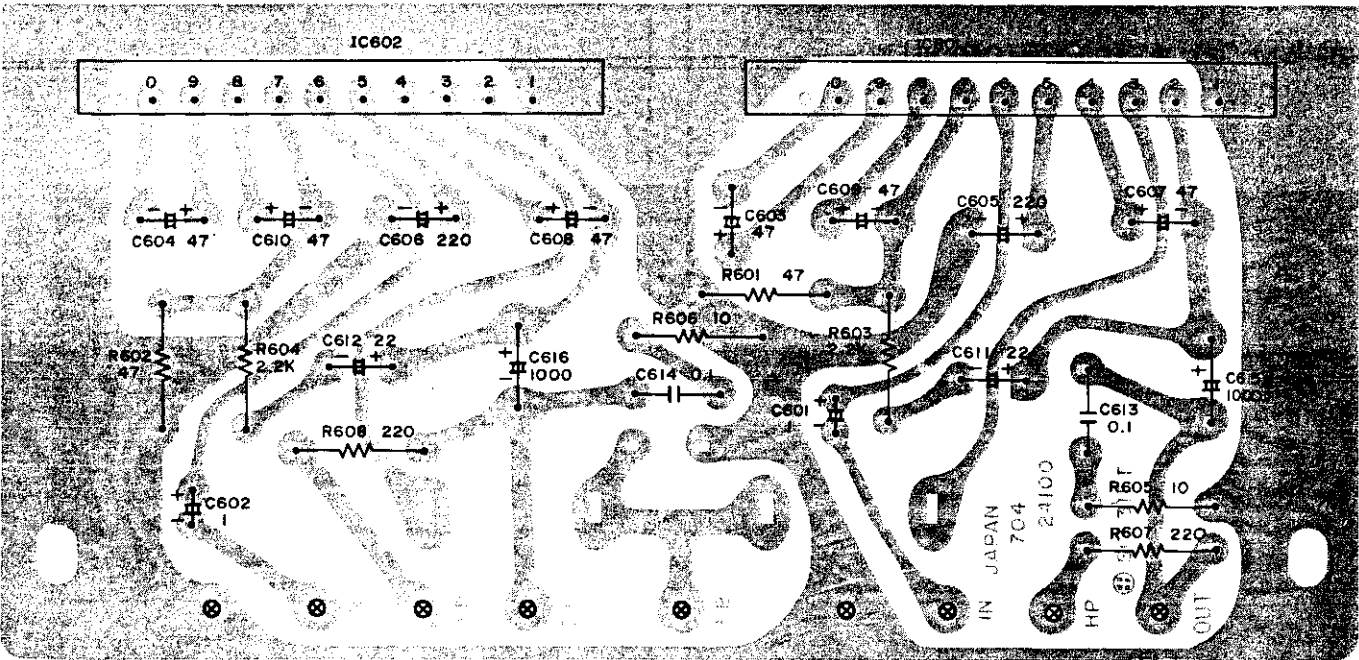


PARTS LIST

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			
111	131 0 4001 40000	Main Amp PCB Assy	1	R605,606 R601,602 R607,608 R603,604		RESISTORS	
	131 2 6201 19200	Screw, Pan Hd tapping 3 x 16	4			Carbon 10 ohm	±10% 1/4W 2
		Plate Heat Sink	1			Carbon 47 ohm	±10% 1/4W 2
		CAPACITORS				Carbon 220 ohm	±10% 1/4W 2
						Carbon 2.2K ohm	±10% 1/4W 2
C613,614		Mylar 0.1μF	±20% 50V 2	IC601,602	206 5 6160 01610	SEMICONDUCTORS	
C611,612		Electrolytic 22μF	25V 2			IC STK-016	2
C603,604		Electrolytic 47μF	25V 6				
607,608							
609,610							
C605,606		Electrolytic 220μF	35V 2				
C615,616		Electrolytic 1000μF	35V 2				
C601,602		Alisicon 1μF	±20% 25V 2				

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

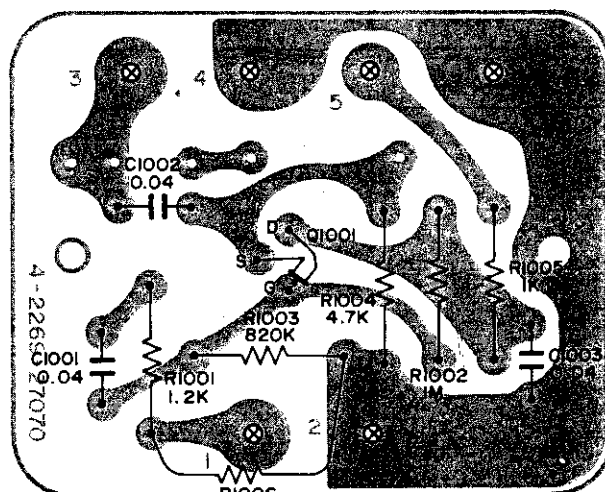
MAIN AMP. P.C.B. ASSY BOTTOM VIEW



IC601 , IC602 STK016

PARTS LIST

Ken NO.	Part No.	Description	Q'ty
RF AMP PCB ASSY			
119	131 0 4001 63300	RF Amp PCB Assy	1
C1001, 1002, 1003		CAPACITORS Ceramic 0.04 μ F 50V +80% -20%	3
R1005		RESISTORS Carbon 1K ohm 1/4W $\pm$ 10%	1
R1001		Carbon 1.2K ohm 1/4W $\pm$ 10%	1
R1004		Carbon 4.7K ohm 1/4W $\pm$ 10%	1
R1006		Carbon 10K ohm 1/4W $\pm$ 10%	1
R1003		Carbon 820K ohm 1/4W $\pm$ 10%	1
R1002		Carbon 1M ohm 1/4W $\pm$ 10%	1
Q1001	203 5 6500 04160	SEMICONDUCTORS Transistor 2SK 41	1



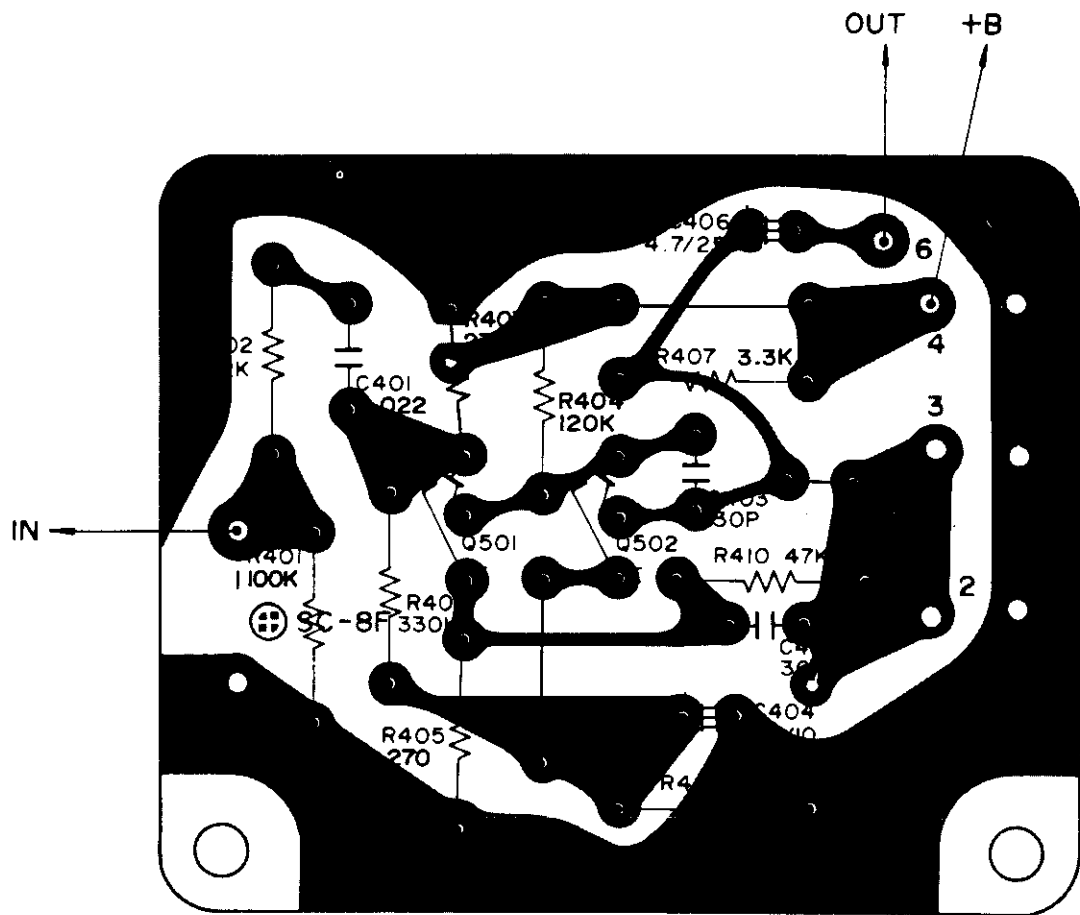
Q1001 2SK41

PARTS LIST

Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
MIC AMP. P.C.B. ASSY				MIC AMP. P.C.B. ASSY			
116	131 0 4001 39501	Mic Amp P.C.B. assy	1	RESISTORS			
CAPACITORS				R405		Carbon 270 ohm ±10% 1/4W	1
C403		Ceramic 30PF ±10% 50V	1	R409		Carbon 470 ohm ±10% 1/4W	1
C407		Ceramic 300PF ±10% 50V	1	R402		Carbon 2.2K ohm ±10% 1/4W	1
C401		Mylar 0.022µF ±20% 50V	1	R407		Carbon 3.3K ohm ±10% 1/4W	1
C406		Electrolytic 4.7µF 25V	1	R410		Carbon 47K ohm ±10% 1/4W	1
C404		Electrolytic 33µF 10V	1	R401		Carbon 100K ohm ±10% 1/4W	1
				R404		Carbon 120K ohm ±10% 1/4W	1
				R403		Carbon 270K ohm ±10% 1/4W	1
				R406		Carbon 330K ohm ±10% 1/4W	1
				SEMICONDUCTORS			
				Q401,402	203 5 5100 69362	Transistor 2SC 693 (FU) or (GU)	2

- Notes: 1. Parts orders must contain Model Number, Part Number and Description.
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MIC AMP. P.C.B. BOTTOM VIEW



Q501 , Q502 2SC693 FU or GU

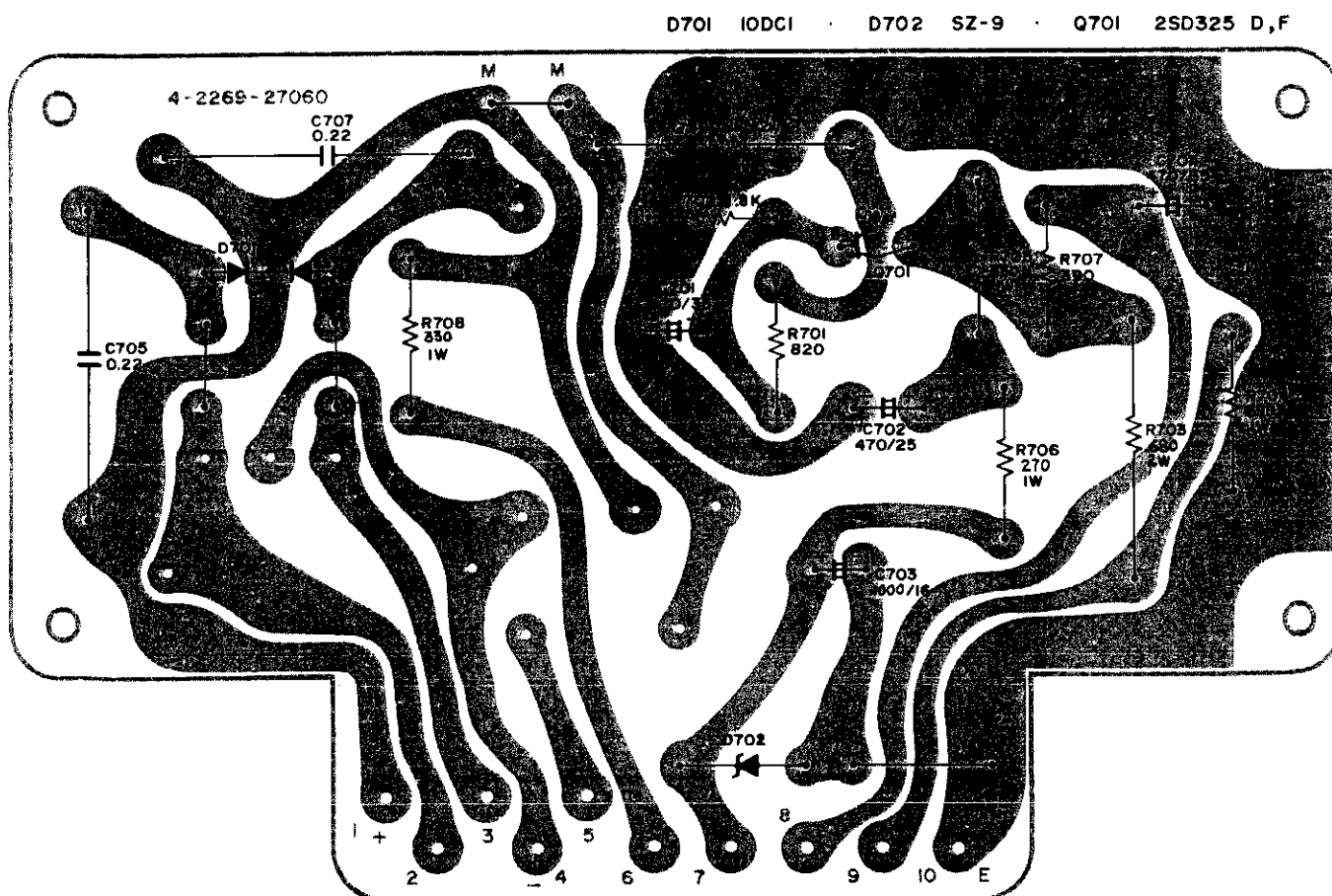
PARTS LIST

Key No.	Part No.	Description	Q'ty
POWER SUPPLY P.C.B. ASSY			
114	131 0 4001 63200	Power supply P.C.B. assy	1
CAPACITORS			
C705,706		MP 0.22 μ F 160V $\pm$ 30%	2
C702		Elect 470 μ F 16V	1
C701,704		Elect 470 μ F 35V	2
C703		Elect 1000 μ F 16V	1
RESISTORS			
R707		Carbon 390 ohm 1/4W $\pm$ 10%	1
R701		Carbon 820 ohm 1/4W $\pm$ 10%	1
R702		Carbon 6.8K ohm 1/4W $\pm$ 10%	1
R709		OMF 82 ohm 2W $\pm$ 10%	1
R706		OMF 270 ohm 1W $\pm$ 10%	1

Key No.	Part No.	Description	Q'ty
POWER SUPPLY P.C.B. ASSY			
R705,708		OMF 330 ohm 1W $\pm$ 10%	2
R704		OMF 390 ohm 1W $\pm$ 10%	1
R703		OMF 680 ohm 2W $\pm$ 10%	1
SEMICONDUCTORS			
D702	202 5 3000 00910	Diode SZ-9	1
D701		Diode 10DC1	1
Q701	203 5 8120 32560	Transistor 2SD 325	1

- NOTES: 1. Part orders must contain Model Number, Part Number and Description.
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POWER SUPPLY P.C.B. BOTTOM VIEW

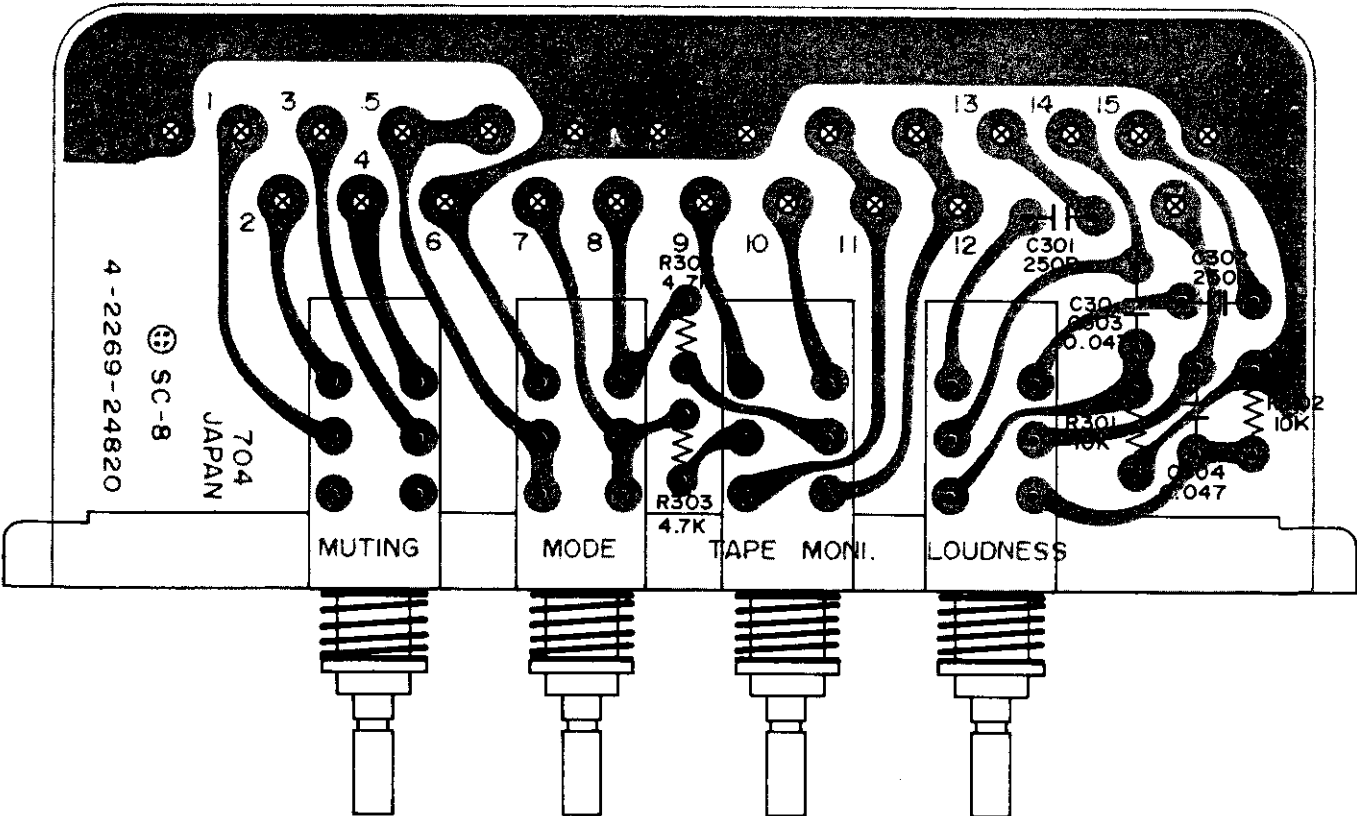


PARTS LIST

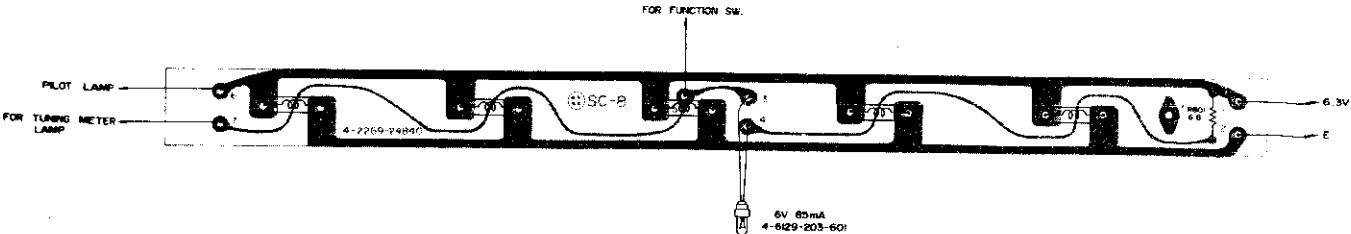
Key. No.	Part No.	Description	Q'ty	Key. No.	Part No.	Description	Q'ty
SWITCH P.C.B. ASSY				PILOT (DIAL) P.C.B. ASSY			
117	131 0 4001 39100 4 2319 23120	Switch PCB Assy Switch Push (4-Key)	1 1	115	131 0 4001 39300 4 2359 20930 4 6129 20280	Pilot (Dial) PCB Assy Fuse Holder Pilot Lamp	1 10 5
C301,302 C303,304		CAPACITORS Ceramic 250PF ±10% 50V Mylar 0.047µF ±20% 50V	2 2	R801		RESISTORS Carbon 6.8ohm ±10% 1/4W	1
R303,304 R301,302		RESISTORS Carbon 4.7K ohm ±10% 1/4W Carbon 10K ohm ±10% 1/4W	2 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 resistors and screws must be multiple of 10 pcs.

SWITCH P.C.B. ASSY BOTTOM VIEW



DIAL LAMP P.C.B. ASSY BOTTOM VIEW

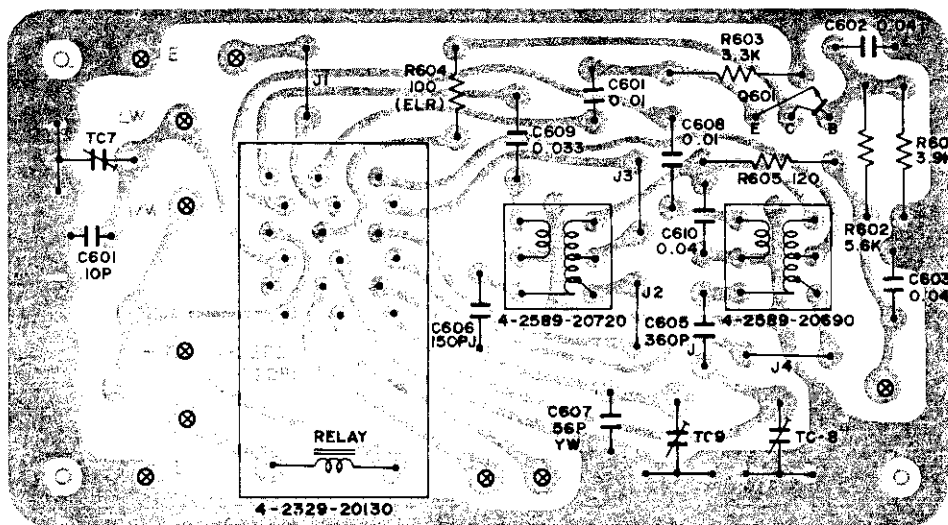


PARTS LIST

Key No.	Part No.	Description	Q'ty
AM CONVERTER PCB ASSY			
118	131 0 4001 21802	AM CONV PCB assy	1
	4 2249 20310	Variable capacitor, TC8	1
	4 2249 20440	Trimmer capacitor, TC7,9	2
	4 2329 20130	Relay, DC-24V	1
	4 2359 22070	Socket relay 20P	1
	4 2589 20690	OSC coil MW	1
	4 2589 20720	OSC coil MW	1
CAPACITORS			
C001		Ceramic 10PF 50V ± 0.25 PF	1
C007		Ceramic 56PF 50V $\pm 10\%$	1
C004		Mylar 0.01 μ F 50V $\pm 20\%$	1
C009		Mylar 0.03 μ F 50V $\pm 20\%$	1
C006		Styrol 150PF 50V $\pm 5\%$	1
C005		Styrol 360PF 50V $\pm 5\%$	1
C008		Ceramic 0.01 μ F 50V $\pm 20\%$	1
C002,003 010		Ceramic 0.04 μ F 50V +80% -20%	3

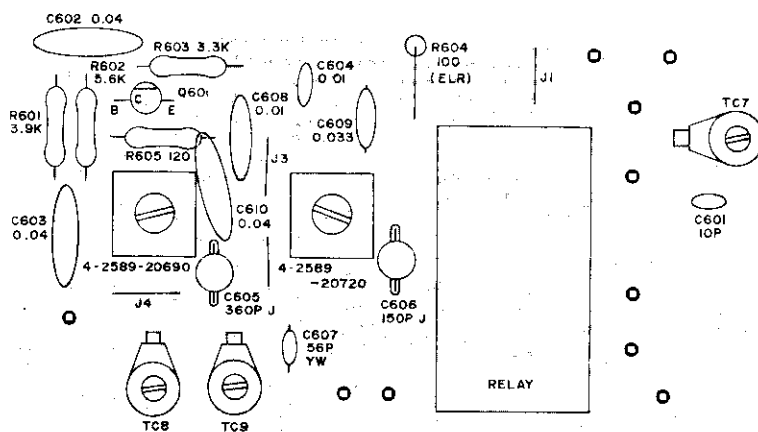
Key No.	Part No.	Description	Q'ty
AM CONVERTER PCB ASSY			
R004 R-05 R003 R001 R002	131 2 5107 00300	RESISTORS Carbon 100 ohm 1/4W $\pm 10\%$ Carbon 120 ohm 1/4W $\pm 10\%$ Carbon 3.3K ohm 1/4W $\pm 10\%$ Carbon 3.9K ohm 1/4W $\pm 10\%$ Carbon 5.6K ohm 1/4W $\pm 10\%$ Mount electric part	1 1 1 1 1 1
SEMICONDUCTORS			
TR001	203 5 5100 53640	Transistor 2SC 536	1

AM CONV. PCB BOTTOM VIEW



Q601 2SC536

AM CONV. PCB TOP VIEW



Q601 2SC536

MEMO

SCHEMATIC DIAGRAM

