

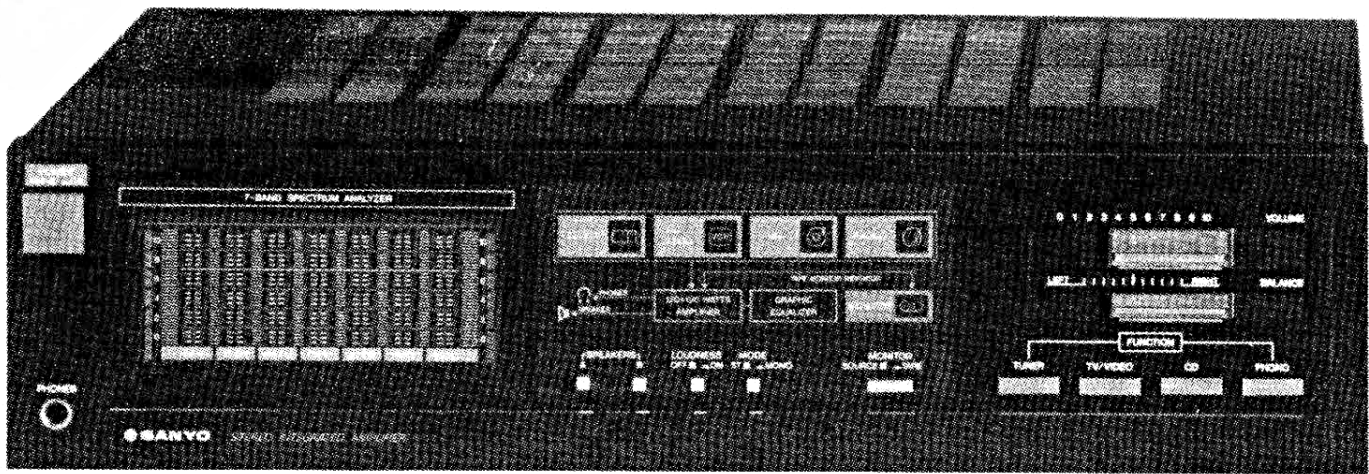
SERVICE MANUAL

POWER AMPLIFIER



SANYO

JA 877 BLACK
(U. S. A.)



SPECIFICATIONS

Continuous minimum sine wave RMS power output per channel at 8 ohms from 40Hz to 20kHz with no more than 0.3% total harmonic distortion.

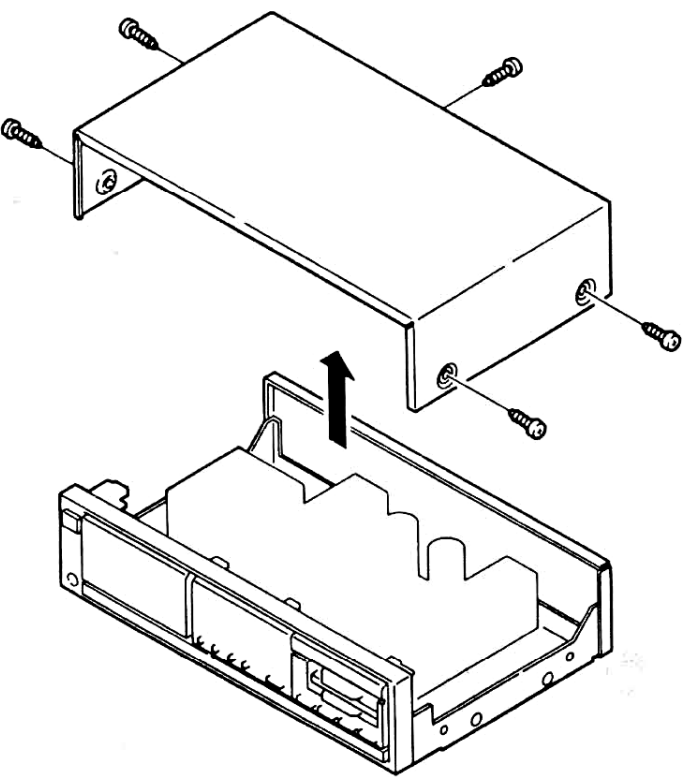
120 watts

Input sensitivity and impedance	
PHONO	2.5 mV/47 kohms
TV/VIDEO	150 mV/47 kohms
Frequency response	20 Hz – 35 kHz (TV/VIDEO)
Loudness control response	
(Vol. –30 dB)	+8 dB/+4 dB (100 Hz/10 kHz)
Signal to noise ratio	73 dB (PHONO)
Power requirements	AC: 120 V, 60 Hz
Power consumption	220 W
AC outlet (UNSWITCHED)	100 W max.
Dimensions (W x D x H)	Approx. 420 x 270 x 110 mm (16-1/2" x 10-5/8" x 4-3/8")
Weight	Approx. 8.0 kg (17 lbs. 10 ozs.)

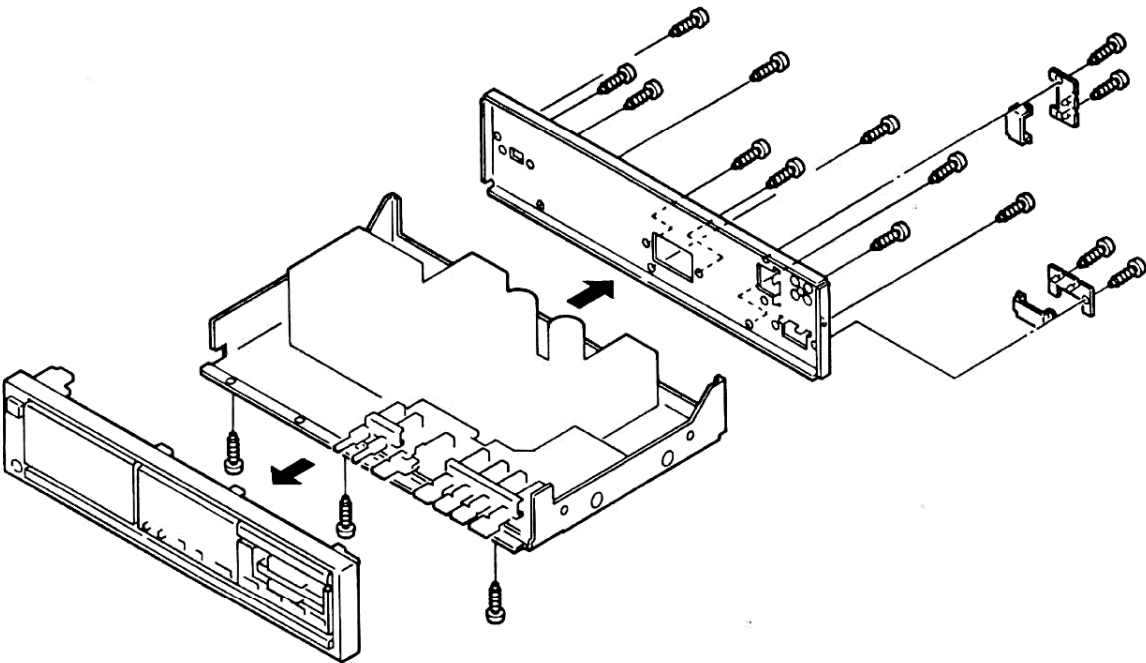
– Specifications subject to change without notice.

DISASSEMBLY

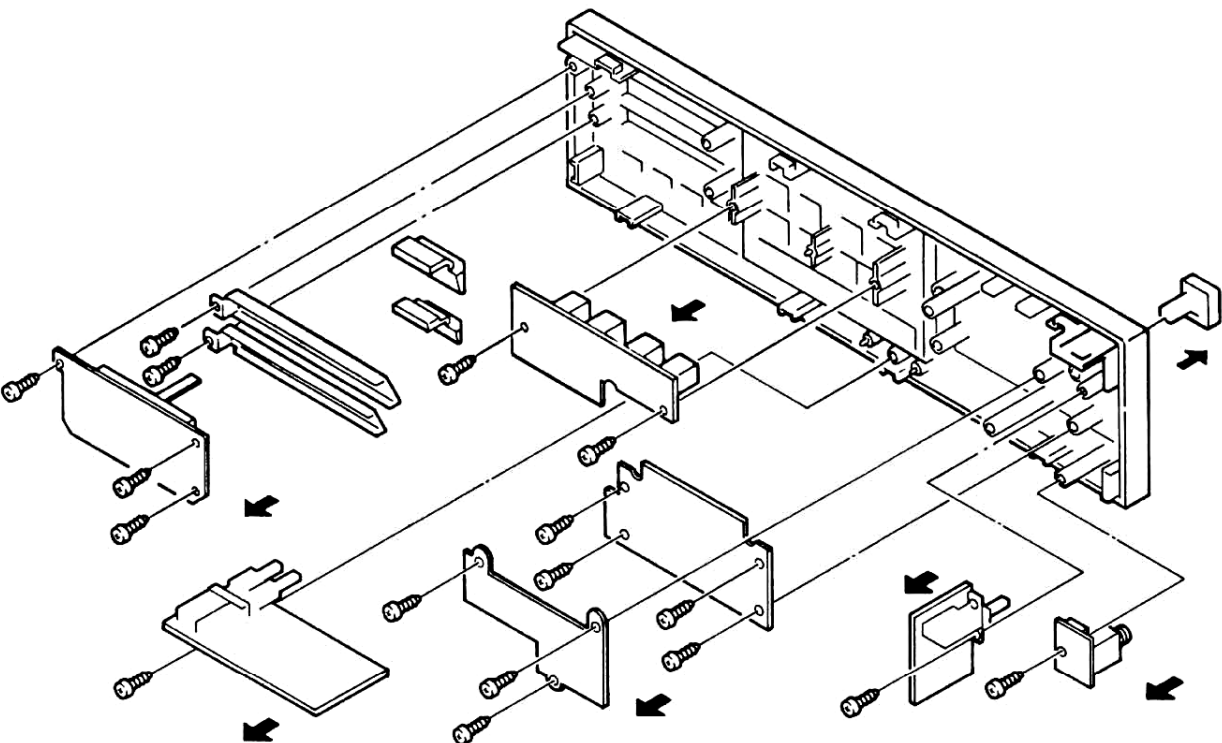
Top Lid Disassembly



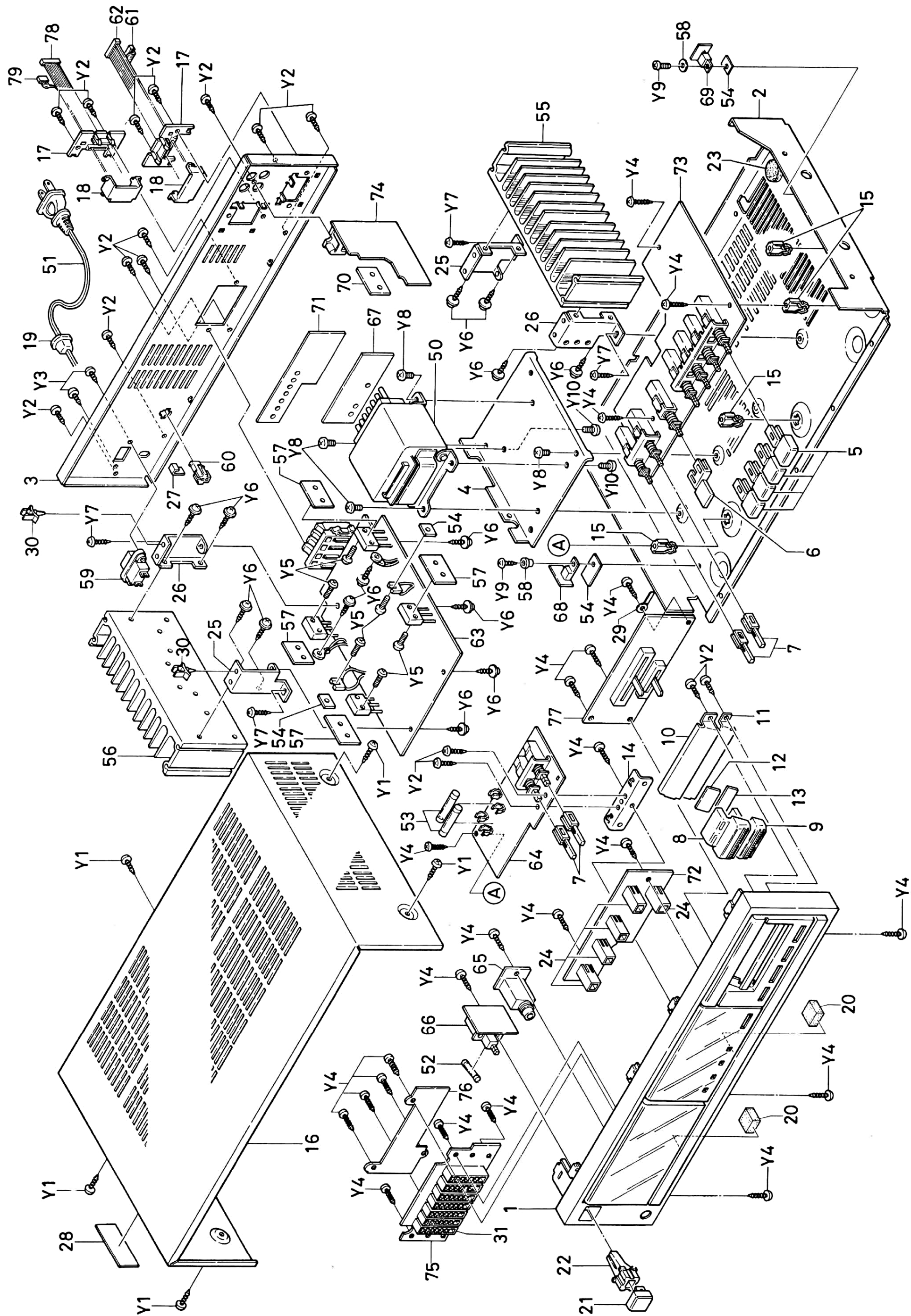
Front Panel and Back Panel Disassembly



PCB Disassembly



CABINET & CHASSIS EXPLODED VIEW



PARTS LIST

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol $\triangle$ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with $\triangle$, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual.

Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

NOTE:

* Materials of Capacitors and Resistors are abbreviated as follows;

AL ELECTAluminum Electrolytic
BC CONSemiconductor Ceramic
CHIP BCChip Semiconductor Ceramic
CHIP TANChip Tantal
ELECTElectrolytic
PP CONPolypropylene
MT GLAZEMetal Glaze
FP CARBONFlameproof Carbon

* Tolerance of Capacitors and Resistors are noted with follow symbols;

J $\pm 5\%$ P $+100 - 0\%$
K $\pm 10\%$ Q $+30 - 10\%$
M $\pm 20\%$ Z $+80 - 20\%$
N $\pm 30\%$

PACKING & ACCESSORIES

Ref. No.	Part No.	Description
or	141-6-315T-07905	SLEEVE
	141-6-145T-08000	FOAM PLASTIC CASE
	141-6-479T-46401	LABEL
	141-6-235T-45601	INNER POLYE LAMINA COVER
	141-6-235T-45605	INNER POLYE LAMINA COVER
	141-6-409T-34700	INST MANUAL
	141-6-231T-25351	INNER POLYE COVER
	141-6-415T-27800	NOTICE
	141-6-479T-39300	LABEL
	4-245T-01181	ANTENNA

CABINET & CHASSIS

Ref. No.	Part No.	Description
1	141-0-122T-60716	FRONT PANEL ASSY
2	141-0-125T-35903	BOTTOM LID ASSY
3	141-2-119T-02934	BACK PANEL
4	141-2-315T-30900	REINFORCEMENT, POWER TRANSFORMER
5	141-2-160T-60300	PUSH BUTTON, FUNCTION
6	141-2-160T-60430	PUSH BUTTON, MONITOR
7	141-2-160T-60800	PUSH BUTTON, MODE/LOUD/SPEAKER
8	141-2-164T-40700	SLIDE KNOB, VOLUME
9	141-2-164T-40800	SLIDE KNOB, BALANCE
10	141-2-290T-12500	BRACKET, VOLUME
11	141-2-290T-12900	BRACKET, BALANCE
12	141-2-448T-16700	CUSHION, VOLUME
13	141-2-448T-16701	CUSHION, BALANCE
14	141-2-310T-16401	BRACKET, SPEAKER SWITCH PCB
15	141-2-210T-19600	BRACKET, PCB
16	141-2-111T-64002	CABINET
17	141-2-210T-71200	BRACKET, CONNECTOR, LARGE
18	141-2-210T-71300	BRACKET, CONNECTOR, SMALL
19	141-2-464T-11800	FIXER, AC POWER CORD
20	141-2-448T-20900	CUSHION, 14X14X13
21	141-2-156T-37900	CUP KNOB, POWER SWITCH
22	141-2-160T-60500	PUSH BUTTON, POWER SWITCH
23	141-2-174T-13100	STAND
24	141-2-329T-10100	REFLECTOR, LED
25	141-2-310T-68404	BRACKET, HEAT SINK
26	141-2-310T-68504	BRACKET, HEAT SINK
27	141-2-310T-69700	BRACKET, PLAYER SOCKET

Ref. No.	Part No.	Description
28	141-6-476T-15600	INDICATION LABEL
29	141-2-472T-12600	LUG, LEAD ALIGNMENT
30	141-2-464T-21300	FIXER, LEAD ALIGNMENT
31	141-2-210T-78900	BRACKET, EQUALIZER LED
Y1	BJB2S++3+8+ZK	BIND HD 2 TAPPING SCREW 3X8
Y2	BJB2S++3+8+Z1	BIND HD 2 TAPPING SCREW 3X8
Y3	BJB2S++3+6+Z1	BIND HD 2 TAPPING SCREW 3X6
Y4	BJB2S++3+10+Z1	BIND HD 2 TAPPING SCREW 3X10
Y5	BJBYS++3+12+Z1	BIND HD SCREW 3X12
Y6	BJX6S++3+8+Z1	PAN WASHER HD 2 TAPPING SCREW 3X8
Y7	BJX6S++3+6+Z1	PAN WASHER HD 2 TAPPING SCREW 3X6
Y8	BJESS++4+8+Z1	BIND HD S TITE SCREW 4X8
Y9	BJESS++3+6+Z1	BIND HD S TITE SCREW 3X6
Y10	BJB2S++4+8+Z1	BIND HD 2 TAPPING SCREW 4X8

ELECTRICAL PARTS

Ref. No.	Part No.	Description
50	$\triangle$ 4-320T-12400	POWER TRANSFORMER
51	$\triangle$ 4-243T-85172	AC POWER CORD
52	$\triangle$ 4-234T-11479	FUSE 250V 5A, F999
53	$\triangle$ 4-234T-10292	FUSE, 5A, 125V, F791/F891
54	141-2-327T-26100	INSULATOR
55	141-2-368T-21214	HEAT SINK, R-CH
56	141-2-368T-21213	HEAT SINK, L-CH
57		INSULATOR, ACCESSORY OF TRANSISTOR
58	141-2-243T-09800	BASE
59	$\triangle$ 4-235T-83400	SOCKET, AC OUTLET
60	4-240T-16578	SOCKET, PLAYER
61	4-267T-02672	SOCKET, 5P, TUNER
62	4-267T-02772	SOCKET, 8P, DECK
67	4-285T-24900	P.C BOARD, P.T. PRIMARY
71	4-285T-74500	P.C BOARD, P.T. SECONDARY 2
78	4-267T-09400	SOCKET, 9P, EQUALIZER
79	4-267T-21600	SOCKET, 3P COMPACT DISC PLAYER
CNS1	4-240T-47672	SOCKET, 2P
CNS2	4-240T-47672	SOCKET, 2P
CNS3	4-240T-47672	SOCKET, 2P
CNS4	4-240T-47672	SOCKET, 2P
CNS5	4-240T-47673	SOCKET, 3P

PARTS LIST

Ref. No.	Part No.	Description
CNS6	4-240T-47673	SOCKET, 3P
CNS7	4-240T-47673	SOCKET, 3P
CNS8	4-240T-47673	SOCKET, 3P
CNS9	4-240T-47673	SOCKET, 3P
CNS10	4-240T-47673	SOCKET, 3P
CNS11	4-240T-47673	SOCKET, 3P
CNS12	4-240T-83573	SOCKET, 3P
CNS13	4-240T-83573	SOCKET, 3P
CNS14	4-240T-83573	SOCKET, 3P
CNS15	4-240T-83573	SOCKET, 3P
CNS16	4-240T-83573	SOCKET, 3P
CNS17	4-240T-83573	SOCKET, 3P
CNS18	4-240T-83573	SOCKET, 3P
CNS19	4-240T-83573	SOCKET, 3P
CNS20	4-240T-83575	SOCKET, 5P
CNS21	4-240T-83575	SOCKET, 5P
CNS22	4-240T-83575	SOCKET, 5P
CNS23	4-240T-83576	SOCKET, 6P
CNS24	4-240T-83576	SOCKET, 6P
CNS25	4-240T-83577	SOCKET, 7P
CNS26	4-240T-83577	SOCKET, 7P
CNS27	4-240T-83577	SOCKET, 7P
CNS28	4-240T-83577	SOCKET, 7P
CNS29	4-240T-83578	SOCKET, 8P
CNS30	4-240T-83579	SOCKET, 9P
CNS31	4-240T-83572	SOCKET, 2P
CNS32	4-240T-83572	SOCKET, 2P
CNS33	4-240T-83572	SOCKET, 2P
CNS34	4-240T-83572	SOCKET, 2P
CNS36	4-240T-83574	SOCKET, 4P
CNS37	4-240T-83574	SOCKET, 4P
CNS38	4-240T-83574	SOCKET, 4P
CNS39	4-240T-83574	SOCKET, 4P
CNS40	4-240T-83574	SOCKET, 4P
CNS41	4-240T-83574	SOCKET, 4P
CNS42	4-267T-10800	SOCKET
CNS43	4-267T-10700	SOCKET
CNS44	4-267T-15300	SOCKET
CNS45	4-267T-15400	SOCKET

MAIN AMP PCB ASSY

Ref. No.	Part No.	Description
63	141-4-285T-24503	P.C BOARD ASSY, MAIN AMP
	4-237T-11480	TERMINAL BOARD, 8P, SPEAKER
	4-237T-00100	TERMINAL BOARD
	4-232T-06300	RELAY
	4-209T-01174	POZISTOR
L761	4-265T-05800	V.H.F COIL
L861	4-265T-05800	V.H.F COIL
SVR761	4-222T-62077	SEMI-FIXED RESISTOR, 1KB
SVR861	4-222T-62077	SEMI-FIXED RESISTOR, 1KB
CNP42	4-236T-32273	PLUG, 3P
CNP46	4-240T-94973	SOCKET, 3P
Q761	STA1016G++++	TR 2SA1016 G
or	STA1038S++++	TR 2SA1038 S
Q762	STA1016G++++	TR 2SA1016 G
or	STA1038S++++	TR 2SA1038 S
Q763	STA1016G++++	TR 2SA1016 G
or	STA1038S++++	TR 2SA1038 S
Q764	STA1209S++++	TR 2SA1209 S
Q765	STC2911S++++	TR 2SC2911 S
Q766	STC2911S++++	TR 2SC2911 S
Q767	STD612+F++++	TR 2SD612 F
Q771	STC2238O++++	TR 2SC2238 O
or	STC2344D++++	TR 2SC2344 D
Q772	STA1011D++++	TR 2SA1011 D
or	STA968+O++++	TR 2SA968 O
Q773	△ STC2773O++++	TR 2SC2773 O
or	△ STC3281O++++	TR 2SC3281 O
Q774	△ STA1169O++++	TR 2SA1169 O

Ref. No.	Part No.	Description
Q774	△ STA1302O++++	TR 2SA1302 O
Q861	STA1016G++++	TR 2SA1016 G
or	STA1038S++++	TR 2SA1038 S
Q862	STA1016G++++	TR 2SA1016 G
or	STA1038S++++	TR 2SA1038 S
Q863	STA1016G++++	TR 2SA1016 G
or	STA1038S++++	TR 2SA1038 S
Q864	STA1209S++++	TR 2SA1209 S
Q865	STC2911S++++	TR 2SC2911 S
Q866	STC2911S++++	TR 2SC2911 S
Q867	STD612+F++++	TR 2SD612 F
Q871	STC2238O++++	TR 2SC2238 O
or	STC2344D++++	TR 2SC2344 D
Q872	STA1011D++++	TR 2SA1011 D
or	STA968+O++++	TR 2SA968 O
Q873	△ STC2773O++++	TR 2SC2773 O
or	△ STC3281O++++	TR 2SC3281 O
Q874	△ STA1169O++++	TR 2SA1169 O
or	△ STA1302O++++	TR 2SA1302 O
Q901	△ STD325+E++++	TR 2SD325 E
Q902	△ STB511+E++++	TR 2SB511 E
Q903	STC536+G+++KT	TR 2SC536 G K T
Q904	STC536+G+++KT	TR 2SC536 G K T
D761	SDDS442+X+++T	DIODE DS442 X
D861	SDDS442+X+++T	DIODE DS442 X
D901	SDDBA60+C+++	DIODE DBA60 C
or	△ SDRB60++2+++	DIODE RB60 2
D902	SDDS442+X+++T	DIODE DS442 X
D903	SDDS442+X+++T	DIODE DS442 X
D904	SDDS442+X+++T	DIODE DS442 X
D905	SDDS442+X+++T	DIODE DS442 X
D906	△ SDDSF10+C+++T	DIODE DSF10 C T
D907	△ SDDSF10+C+++T	DIODE DSF10 C T
D908	△ SDDSF10+C+++T	DIODE DSF10 C T
D909	△ SDDSF10+C+++T	DIODE DSF10 C T
D911	SDGZA160Y+++	ZENER DIODE GZA16Y
D912	SDGZA160Y+++	ZENER DIODE GZA16Y
D931	SDDS442+X+++T	DIODE DS442 X
D932	SDDS442+X+++T	DIODE DS442 X
D933	SDDS442+X+++T	DIODE DS442 X
D934	SDGZA047Y+++	ZENER DIODE GZA4.7Y
D935	SDDSF10+C+++T	DIODE DSF10 C T
C761	CE+50105RVLRS	ELECT 1MF 50V R V LR
C762	CC+50471KRYBF	CERAMIC 470PF 50V K R YB
C763	CM+50471MR++F	MYLAR 470PF 50V M R
C764	CE+10107MR++F	ELECT 100MF 10V M R
C766	CC500330KDSL	CERAMIC 33PF 500V K D SL
C768	CC500101KDSL	CERAMIC 100PF 500V K D SL
C769	CC500101KDSL	CERAMIC 100PF 500V K D SL
C771	CM+50473MR++F	MYLAR 0.047MF 50V M R
C772	CC+50080KRSLF	CERAMIC 8PF 50V K R SL
C861	CE+50105RVLRS	ELECT 1MF 50V R V LR
C862	CC+50471KRYBF	CERAMIC 470PF 50V K R YB
C863	CM+50471MR++F	MYLAR 470PF 50V M R
C864	CE+10107MR++F	ELECT 100MF 10V M R
C866	CC500330KDSL	CERAMIC 33PF 500V K D SL
C868	CC500101KDSL	CERAMIC 100PF 500V K D SL
C869	CC500101KDSL	CERAMIC 100PF 500V K D SL
C871	CM+50473MR++F	MYLAR 0.047MF 50V M R
C872	CC+50080KRSLF	CERAMIC 8PF 50V K R SL
C901	△ 4-163T-11600	ELECT 8200MF 80V
C902	△ 4-163T-11600	ELECT 8200MF 80V
C903	4-163T-11779	ELECT 100MF 100V
C904	4-163T-11779	ELECT 100MF 100V
C905	△ 4-223T-13771	CAPACITOR 0.022MF 200V
C906	△ 4-223T-13771	CAPACITOR 0.022MF 200V
C907	△ CF+50104JR++F	METAL POLY 0.1MF 50V J R
C908	△ CF+50104JR++F	METAL POLY 0.1MF 50V J R
C909	△ CE+35477MY++S	ELECT 470MF 35V M Y
C910	△ CE+35477MY++S	ELECT 470MF 35V M Y
C911	CE+25476MY++S	ELECT 47MF 25V M Y
C912	CE+25476MY++S	ELECT 47MF 25V M Y
C920	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF
C931	CE+50225MR++F	ELECT 2.2MF 50V M R

PARTS LIST

Ref. No.	Part No.	Description
C932	CE+10107MR++F	ELECT 100MF 10V M R
R761	RC/+4102JT++R	CARBON T 1K OHM J1/4WR25
R762	RC/+4104JT++R	CARBON T 100KOHM J1/4WR25
R763	RC/+4683JT++R	CARBON T 68K OHM J1/4WR25
R764	RC/+4471JT++R	CARBON T 470 OHM J1/4WR25
R765	RC/+4331JT++R	CARBON T 330 OHM J1/4WR25
R766	RC/+4472JT++R	CARBON T 4.7KOHM J1/4WR25
R767	RC/+4472JT++R	CARBON T 4.7KOHM J1/4WR25
R768	RC/+4271JT++R	CARBON T 270 OHM J1/4WR25
R769	RC/+4333JT++R	CARBON T 33K OHM J1/4WR25
R771	RC/+4393JT++R	CARBON T 39K OHM J1/4WR25
R772	RC/+4270JT++R	CARBON T 27 OHM J1/4WR25
R773	RC/+4270JT++R	CARBON T 27 OHM J1/4WR25
R774	RC/+4682JT++R	CARBON T 6.8KOHM J1/4WR25
R775	△ RF/+4221JSFPR	FP-CARBON S 220 J 1/4WR25
R776	RC/+4272JT++R	CARBON T 2.7KOHM J1/4WR25
R777	RC/+4152JT++R	CARBON T 1.5KOHM J1/4WR25
R778	△ RF/+2391JSFP+	FP-CARBON S 390 J 1/2W
R779	RC/+4682JT++R	CARBON T 6.8KOHM J1/4WR25
R781	4-221T-03600	RESISTOR 0.47OHM 5W X 2
R782	△ RM++1100JS+++	METAL S 10 OHM J 1W
R783	△ RM++15R6JS+++	METAL S 5.6 OHM J 1W
R861	RC/+4102JT++R	CARBON T 1K OHM J1/4WR25
R862	RC/+4104JT++R	CARBON T 100KOHM J1/4WR25
R863	RC/+4683JT++R	CARBON T 68K OHM J1/4WR25
R864	RC/+4471JT++R	CARBON T 470 OHM J1/4WR25
R865	RC/+4331JT++R	CARBON T 330 OHM J1/4WR25
R866	RC/+4472JT++R	CARBON T 4.7KOHM J1/4WR25
R867	RC/+4472JT++R	CARBON T 4.7KOHM J1/4WR25
R868	RC/+4271JT++R	CARBON T 270 OHM J1/4WR25
R869	RC/+4333JT++R	CARBON T 33K OHM J1/4WR25
R871	RC/+4393JT++R	CARBON T 39K OHM J1/4WR25
R872	RC/+4270JT++R	CARBON T 27 OHM J1/4WR25
R873	RC/+4270JT++R	CARBON T 27 OHM J1/4WR25
R874	RC/+4682JT++R	CARBON T 6.8KOHM J1/4WR25
R875	△ RF/+4221JSFPR	FP-CARBON S 220 J 1/4WR25
R876	RC/+4272JT++R	CARBON T 2.7KOHM J1/4WR25
R877	RC/+4152JT++R	CARBON T 1.5KOHM J1/4WR25
R878	△ RF/+2391JSFP+	FP-CARBON S 390 J 1/2W
R879	RC/+4682JT++R	CARBON T 6.8KOHM J1/4WR25
R881	4-221T-03600	RESISTOR 0.47OHM 5W X 2
R882	△ RM++1100JS+++	METAL S 10 OHM J 1W
R883	△ RM++15R6JS+++	METAL S 5.6 OHM J 1W
R901	△ RF/+4330JSFPR	FP-CARBON S 33 J 1/4W R25
R902	△ RF/+4330JSFPR	FP-CARBON S 33 J 1/4W R25
R903	RC/+4473JT++R	CARBON T 47K OHM J1/4WR25
R904	RC/+4473JT++R	CARBON T 47K OHM J1/4WR25
R905	△ RF/+4220JSFPR	FP-CARBON S 22 J 1/4W R25
R906	△ RF/+4220JSFPR	FP-CARBON S 22 J 1/4W R25
R911	RC/+4332JT++R	CARBON T 3.3KOHM J1/4WR25
R912	RC/+4332JT++R	CARBON T 3.3KOHM J1/4WR25
R931	RC/+4223JT++R	CARBON T 22K OHM J1/4WR25
R932	RC/+4222JT++R	CARBON T 2.2KOHM J1/4WR25
R933	RC/+4563JT++R	CARBON T 56K OHM J1/4WR25
R934	RC/+4273JT++R	CARBON T 27K OHM J1/4WR25
R935	RC/+4273JT++R	CARBON T 27K OHM J1/4WR25
R936	RC/+4103JT++R	CARBON T 10K OHM J1/4WR25
R937	△ RF/+4101JSFPR	FP-CARBON S 100 J 1/4WR25

SPEAKER SWITCH PCB ASSY

Ref. No.	Part No.	Description
64	141-4-285T-24601	P.C BOARD ASSY, SPEAKER SWITCH
S9-10	141-2-381T-04202	BRACKET, FUSE
R784	4-248T-00971	SWITCH, SPEAKER
R884	RM++2331JP+++	METAL P 330 OHM J 2W
	RM++2331JP+++	METAL P 330 OHM J 2W

HEADPHONE SOCKET PCB ASSY

Ref. No.	Part No.	Description
65	141-4-285T-24700	P.C BOARD ASSY, HEADPHONE SOCKET
	4-240T-80871	SOCKET, HEADPHONE

POWER SWITCH PCB ASSY

Ref. No.	Part No.	Description
66	141-4-285T-24800	P.C BOARD ASSY, POWER SWITCH
	4-237T-00100	TERMINAL BOARD
S8	△ 4-238T-70380	SWITCH, POWER
C999	△ 4-223T-12100	CAPACITOR 0.01MF 400V
or	△ 4-223T-12280	CAPACITOR, 0.01MF
R999	△ RS/+2335KP+++	SOLID P 3.3M OHM K 1/2W

REGULATOR 1 PCB ASSY

Ref. No.	Part No.	Description
68	141-4-285T-25100	P.C BOARD ASSY, REGULATOR 1
IC901	△ SINJM7812A+++	IC NJM7812A SIP03
C100	CC+50223ZDYFS	CERAMIC 0.022MF 50V Z D YF
C922	CE+16106MR++F	ELECT 10MF 16V M R

REGULATOR 2 PCB ASSY

Ref. No.	Part No.	Description
69	141-4-285T-25200	P.C BOARD ASSY, REGULATOR 2
IC902	△ SINJM7812A+++	IC NJM7812A SIP03
C924	CE+16106MR++F	ELECT 10MF 16V M R
C101	CC+50223ZDYFS	CERAMIC 0.022MF 50V Z D YF

POWER TRANSFORMER SECONDARY 1 PCB ASSY

Ref. No.	Part No.	Description
70	141-4-285T-74400	P.C BOARD ASSY, POWER TRANSFORMER SECONDARY 1
CNP44	4-236T-32272	PLUG, 2P
D921	△ SDDS F10+C+++T	DIODE DSF10 C T
D922	△ SDDS F10+C+++T	DIODE DSF10 C T
D923	△ SDDS F10+C+++T	DIODE DSF10 C T
D924	△ SDDS F10+C+++T	DIODE DSF10 C T
C921	4-223T-17500	CAPACITOR 1000MF 35V
C923	CF+50104JR++F	METAL POLY 0.1MF 50V J R
R924	△ RM++2R33JSOS+	METAL S 0.33 OHM J 2W OS

FUNCTION LED PCB ASSY

Ref. No.	Part No.	Description
72	141-4-285T-74600	P.C BOARD ASSY, FUNCTION LED
D925	SLSLP238FB5PG	LED SLP238F-51P B GR
D926	SLSLP238FB5PG	LED SLP238F-51P B GR
D927	SLSLP238FB5PG	LED SLP238F-51P B GR
D928	SLSLP238FB5PG	LED SLP238F-51P B GR
D929	SLSLP138CB5RE	LED SLP138C-51 B RE

FUNCTION SWITCH PCB ASSY

Ref. No.	Part No.	Description
73	141-4-285T-74700	P.C BOARD ASSY, FUNCTION SWITCH
S1-4	4-248T-02471	SWITCH, FUNCTION
S5	4-248T-02300	SWITCH, MONITOR
S6-7	4-248T-05400	SWITCH, MODE/LOUD
CNP43	4-236T-32272	PLUG, 2P

PARTS LIST

Ref. No.	Part No.	Description
CNP45	4-236T-32272	PLUG, 2P
C751	CC+50561KRSLF	CERAMIC 560PF 50V K R SL
C752	CB+25104KRXRF	BC CON 0.1MF 25V K R XR
C851	CC+50561KRSLF	CERAMIC 560PF 50V K R SL
C852	CB+25104KRXRF	BC CON 0.1MF 25V K R XR
C915	CE+16476MR++F	ELECT 47MF 16V M R
C916	CE+16476MR++F	ELECT 47MF 16V M R
C944	CB+25104KRXRF	BC CON 0.1MF 25V K R XR
R751	RC/+4222JT++R	CARBON T 2.2KOHM J1/4WR25
R752	RC/+6333JT+++	CARBON T 33K OHM J 1/6W
R753	RC/+6105JT+++	CARBON T 1M OHM J 1/6W
R754	RC/+6562JT+++	CARBON T 5.6K OHM J 1/6W
R756	RC/+4222JT++R	CARBON T 2.2KOHM J1/4WR25
R790	RC/+6104JT+++	CARBON T 100K OHM J 1/6W
R851	RC/+4222JT++R	CARBON T 2.2KOHM J1/4WR25
R852	RC/+6333JT+++	CARBON T 33K OHM J 1/6W
R853	RC/+6105JT+++	CARBON T 1M OHM J 1/6W
R854	RC/+6562JT+++	CARBON T 5.6K OHM J 1/6W
R856	RC/+6222JT+++	CARBON T 2.2K OHM J 1/6W
R890	RC/+6104JT+++	CARBON T 100K OHM J 1/6W
R921	RC/+4681JT++R	CARBON T 680 OHM J1/4WR25
R922	RC/+4122JT++R	CARBON T 1.2KOHM J1/4WR25
R923	RF/+22R7JSFP+	FP-CARBON S 2.7 J 1/2W

PHONO PCB ASSY

Ref. No.	Part No.	Description
74	141-4-285T-74800	P.C BOARD ASSY, PHONO
	4-240T-50471	SOCKET, PHONO/TV-VIDEO
IC701	S I LA6458DS+++	IC LA6458DS DIP08
or	S I NJM4558DD++	IC NJM4558DD DIP08
IC704	S I LA6458SS+++	IC LA6458SS SIP09
or	S I NJM4558SD++	IC NJM4558SD SIP09
C701	CE+25475RVLRS	ELECT 4.7MF 25V R V LR
C702	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C703	CB+25472KRXRF	BC CON 0.0047MF 25V K R XR
C704	CB+25183KRXRF	BC CON 0.018MF 25V K R XR
C705	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C706	CE+10336MR++F	ELECT 33MF 10V M R
C707	CW+50105RVLRS	NONPOLAR 1MF 50V R V LR
C791	CC+50221KRSLF	CERAMIC 220PF 50V K R SL
C801	CE+25475RVLRS	ELECT 4.7MF 25V R V LR
C802	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C803	CB+25472KRXRF	BC CON 0.0047MF 25V K R XR
C804	CB+25183KRXRF	BC CON 0.018MF 25V K R XR
C805	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C806	CE+10336MR++F	ELECT 33MF 10V M R
C807	CW+50105RVLRS	NONPOLAR 1MF 50V R V LR
C891	CC+50221KRSLF	CERAMIC 220PF 50V K R SL
C913	CE+16476MR++F	ELECT 47MF 16V M R
C914	CE+16476MR++F	ELECT 47MF 16V M R
C941	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF
C942	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF
C943	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF
R701	RC/+6102JT+++	CARBON T 1K OHM J 1/6W
R702	RC/+6473JT+++	CARBON T 47K OHM J 1/6W
R703	RC/+6153JT+++	CARBON T 15K OHM J 1/6W
R704	RC/+6274JT+++	CARBON T 270K OHM J 1/6W
R705	RC/+6331JT+++	CARBON T 330 OHM J 1/6W
R706	RC/+6561JT+++	CARBON T 560 OHM J 1/6W
R707	RC/+6104JT+++	CARBON T 100K OHM J 1/6W
R720	RC/+6473JT+++	CARBON T 47K OHM J 1/6W
R791	RC/+6102JT+++	CARBON T 1K OHM J 1/6W
R801	RC/+6102JT+++	CARBON T 1K OHM J 1/6W
R802	RC/+6473JT+++	CARBON T 47K OHM J 1/6W
R803	RC/+6153JT+++	CARBON T 15K OHM J 1/6W
R804	RC/+6274JT+++	CARBON T 270K OHM J 1/6W
R805	RC/+6331JT+++	CARBON T 330 OHM J 1/6W
R806	RC/+6561JT+++	CARBON T 560 OHM J 1/6W
R807	RC/+6104JT+++	CARBON T 100K OHM J 1/6W
R820	RC/+6473JT+++	CARBON T 47K OHM J 1/6W

Ref. No.	Part No.	Description
R891	RC/+6102JT+++	CARBON T 1K OHM J 1/6W

SPECTRUM ANALIZER DISPLAY PCB ASSY

Ref. No.	Part No.	Description
75	141-4-285T-74900	P.C BOARD ASSY, SPECTRUM ANALIZER DISPLAY
IC503	S I BA6144+++++	IC BA6144 SIP09
IC504	S I BA6144+++++	IC BA6144 SIP09
IC505	S I BA6144+++++	IC BA6144 SIP09
IC506	S I BA6144+++++	IC BA6144 SIP09
IC507	S I BA6144+++++	IC BA6144 SIP09
IC508	S I BA6144+++++	IC BA6144 SIP09
IC509	S I BA6144+++++	IC BA6144 SIP09
Q501	STC536+G+++U1	TR 2SC536 G AUD SP
Q502	STC536+G+++U1	TR 2SC536 G AUD SP
Q503	STC536+G+++U1	TR 2SC536 G AUD SP
Q504	STC536+G+++U1	TR 2SC536 G AUD SP
Q505	STC536+G+++U1	TR 2SC536 G AUD SP
Q506	STC536+G+++U1	TR 2SC536 G AUD SP
Q507	STC536+G+++U1	TR 2SC536 G AUD SP
D1	SL4110TPB+DRE	LED SEL4110 TP B D RE
D6	SL4110TPB+DRE	LED SEL4110 TP B D RE
D7	SL4110TPB+DRE	LED SEL4110 TP B D RE
D12	SL4110TPB+DRE	LED SEL4110 TP B D RE
D13	SL4110TPB+DRE	LED SEL4110 TP B D RE
D18	SL4110TPB+DRE	LED SEL4110 TP B D RE
D19	SL4110TPB+DRE	LED SEL4110 TP B D RE
D24	SL4110TPB+DRE	LED SEL4110 TP B D RE
D25	SL4110TPB+DRE	LED SEL4110 TP B D RE
D30	SL4110TPB+DRE	LED SEL4110 TP B D RE
D31	SL4110TPB+DRE	LED SEL4110 TP B D RE
D36	SL4110TPB+DRE	LED SEL4110 TP B D RE
D37	SL4110TPB+DRE	LED SEL4110 TP B D RE
D42	SL4110TPB+DRE	LED SEL4110 TP B D RE
C531	CE+16106MVS5S	ELECT 10MF 16V M V S5
C532	CE+16106MVS5S	ELECT 10MF 16V M V S5
C533	CE+16106MVS5S	ELECT 10MF 16V M V S5
C534	CE+16106MVS5S	ELECT 10MF 16V M V S5
C535	CE+16106MVS5S	ELECT 10MF 16V M V S5
C536	CE+16106MVS5S	ELECT 10MF 16V M V S5
C537	CE+16106MR++F	ELECT 10MF 16V M R
R532	RC/+6821JT+++	CARBON T 820 OHM J 1/6W
R533	RC/+6821JT+++	CARBON T 820 OHM J 1/6W
R534	RC/+6821JT+++	CARBON T 820 OHM J 1/6W
R535	RC/+6821JT+++	CARBON T 820 OHM J 1/6W
R536	RC/+6821JT+++	CARBON T 820 OHM J 1/6W
R537	RC/+6821JT+++	CARBON T 820 OHM J 1/6W
R538	RC/+6821JT+++	CARBON T 820 OHM J 1/6W
R539	RC/+6103JT+++	CARBON T 10K OHM J 1/6W
R540	RC/+6103JT+++	CARBON T 10K OHM J 1/6W
R541	RC/+6103JT+++	CARBON T 10K OHM J 1/6W
R542	RC/+6103JT+++	CARBON T 10K OHM J 1/6W
R543	RC/+6103JT+++	CARBON T 10K OHM J 1/6W
R544	RC/+6103JT+++	CARBON T 10K OHM J 1/6W
R545	RC/+6103JT+++	CARBON T 10K OHM J 1/6W
R546	RC/+6101JT+++	CARBON T 100 OHM J 1/6W
R547	RC/+6101JT+++	CARBON T 100 OHM J 1/6W
R548	RC/+6101JT+++	CARBON T 100 OHM J 1/6W
R549	RC/+6101JT+++	CARBON T 100 OHM J 1/6W
R550	RC/+6101JT+++	CARBON T 100 OHM J 1/6W
R551	RC/+6101JT+++	CARBON T 100 OHM J 1/6W
R552	RC/+6101JT+++	CARBON T 100 OHM J 1/6W
R553	RC/+4331JT++R	CARBON T 330 OHM J1/4WR25
R554	RC/+4331JT++R	CARBON T 330 OHM J1/4WR25
R555	RC/+4331JT++R	CARBON T 330 OHM J1/4WR25
R556	RC/+4331JT++R	CARBON T 330 OHM J1/4WR25
R557	RC/+4331JT++R	CARBON T 330 OHM J1/4WR25
R558	RC/+4331JT++R	CARBON T 330 OHM J1/4WR25
R559	RC/+4331JT++R	CARBON T 330 OHM J1/4WR25

PARTS LIST

SPECTRUM ANALIZER DRIVER PCB ASSY

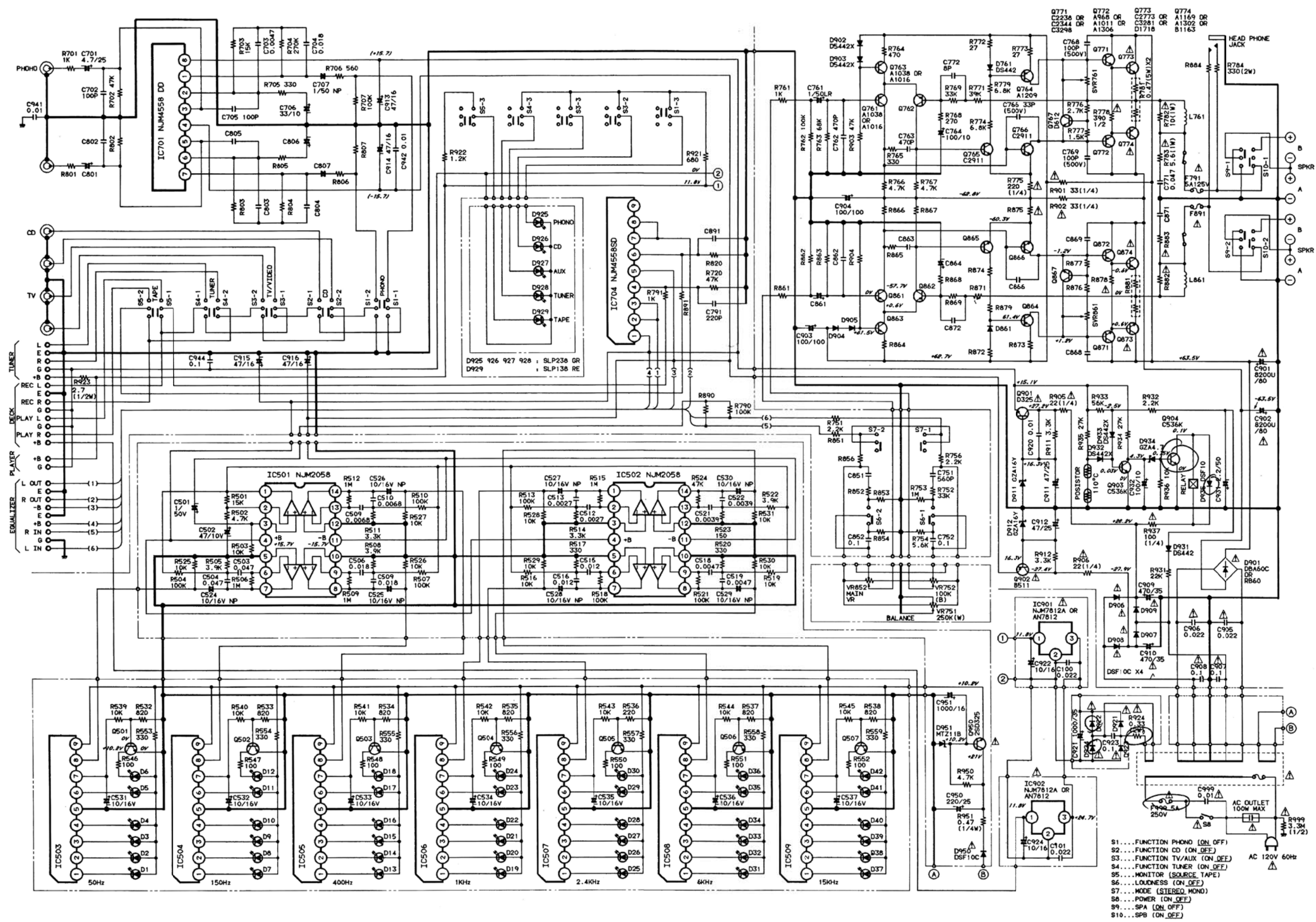
Ref. No.	Part No.	Description
76	141-4-285T-75000	P.C BOARD ASSY, SPECTRUM ANALIZER DRIVER
IC501	S INJM2058D+++	IC NJM2058D DIP14
IC502	S INJM2058D+++	IC NJM2058D DIP14
Q950	△ STD325+E+++++	TR 2SD325 E
D950	△ SDDSF10+C+++T	DIODE DSF10 C T
D951	SDMTZ110B+++T	ZENER DIODE MTZ11.0B
C501	CE+50105MR++F	ELECT 1MF 50V M R
C502	CE+10476MR++F	ELECT 47MF 10V M R
C503	CB+25473KRXRF	BC CON 0.047MF 25V K R XR
C504	CB+25473KRXRF	BC CON 0.047MF 25V K R XR
C506	CB+25183KRXRF	BC CON 0.018MF 25V K R XR
C507	CB+25183KRXRF	BC CON 0.018MF 25V K R XR
C509	CB+25682KRXRF	BC CON 0.0068MF 25V K R XR
C510	CB+25682KRXRF	BC CON 0.0068MF 25V K R XR
C512	CB+25272KRXRF	BC CON 0.0027MF 25V K R XR
C513	CB+25272KRXRF	BC CON 0.0027MF 25V K R XR
C515	CB+25123KRXRF	BC CON 0.012MF 25V K R XR
C516	CB+25123KRXRF	BC CON 0.012MF 25V K R XR
C518	CB+25472KRXRF	BC CON 0.0047MF 25V K R XR
C519	CB+25472KRXRF	BC CON 0.0047MF 25V K R XR
C521	CB+25392KRXRF	BC CON 0.0039MF 25V K R XR
C522	CB+25392KRXRF	BC CON 0.0039MF 25V K R XR
C524	CW+16106MVNPS	NONPOLAR 10MF 16V M V NP
C525	CW+16106MVNPS	NONPOLAR 10MF 16V M V NP
C526	CW+16106MVNPS	NONPOLAR 10MF 16V M V NP
C527	CW+16106MVNPS	NONPOLAR 10MF 16V M V NP
C528	CW+16106MVNPS	NONPOLAR 10MF 16V M V NP
C529	CW+16106MVNPS	NONPOLAR 10MF 16V M V NP
C530	CW+16106MVNPS	NONPOLAR 10MF 16V M V NP
C950	CE+25227MY++S	ELECT 220MF 25V M Y
C951	CE+16108MVHAS	ELECT 1000MF 16V M V HA S
R501	RC/+6153JT+++	CARBON T 15K OHM J 1/6W
R502	RC/+6472JT+++	CARBON T 4.7K OHM J 1/6W
R503	RC/+6103JT+++	CARBON T 10K OHM J 1/6W
R504	RC/+6104JT+++	CARBON T 100K OHM J 1/6W
R505	RC/+6392JT+++	CARBON T 3.9K OHM J 1/6W
R506	RC/+6105JT+++	CARBON T 1M OHM J 1/6W
R507	RC/+6104JT+++	CARBON T 100K OHM J 1/6W
R508	RC/+6392JT+++	CARBON T 3.9K OHM J 1/6W
R509	RC/+6105JT+++	CARBON T 1M OHM J 1/6W
R510	RC/+6104JT+++	CARBON T 100K OHM J 1/6W
R511	RC/+6332JT+++	CARBON T 3.3K OHM J 1/6W
R512	RC/+6105JT+++	CARBON T 1M OHM J 1/6W
R513	RC/+6104JT+++	CARBON T 100K OHM J 1/6W
R514	RC/+6332JT+++	CARBON T 3.3K OHM J 1/6W
R515	RC/+6105JT+++	CARBON T 1M OHM J 1/6W
R516	RC/+6103JT+++	CARBON T 10K OHM J 1/6W
R517	RC/+6331JT+++	CARBON T 330 OHM J 1/6W
R518	RC/+6104JT+++	CARBON T 100K OHM J 1/6W
R519	RC/+6103JT+++	CARBON T 10K OHM J 1/6W
R520	RC/+6331JT+++	CARBON T 330 OHM J 1/6W
R521	RC/+6104JT+++	CARBON T 100K OHM J 1/6W
R522	RC/+6392JT+++	CARBON T 3.9K OHM J 1/6W
R523	RC/+6151JT+++	CARBON T 150 OHM J 1/6W
R524	RC/+6473JT+++	CARBON T 47K OHM J 1/6W
R525	RC/+6103JT+++	CARBON T 10K OHM J 1/6W
R526	RC/+6103JT+++	CARBON T 10K OHM J 1/6W
R527	RC/+6103JT+++	CARBON T 10K OHM J 1/6W
R528	RC/+6103JT+++	CARBON T 10K OHM J 1/6W
R529	RC/+6103JT+++	CARBON T 10K OHM J 1/6W
R530	RC/+6103JT+++	CARBON T 10K OHM J 1/6W
R531	RC/+6103JT+++	CARBON T 10K OHM J 1/6W
R950	RC/+6472JT+++	CARBON T 4.7K OHM J 1/6W
R951	RM/+4R47JSRFR	METAL S 0.47OHM J 1/4W RF

Ref. No.	Part No.	Description
VR752/852	4-220T-20200	VARIABLE RESISTOR, 100KB

VOLUME PCB ASSY

Ref. No.	Part No.	Description
77 VR751	141-4-285T-75100 4-220T-30300	P.C BOARD ASSY, VOLUME VARIABLE RESISTOR, 250KW

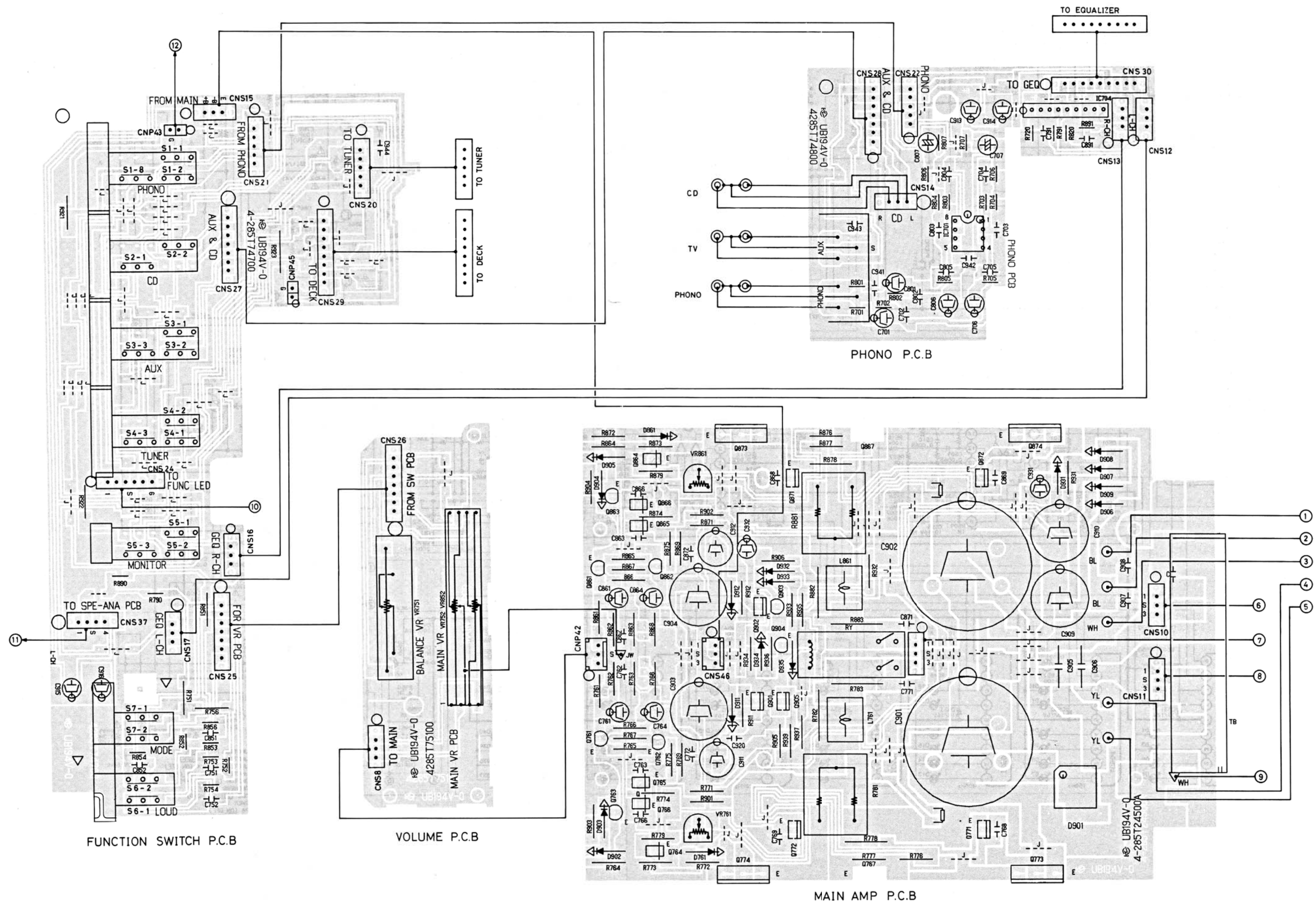
SCHEMATIC DIAGRAM

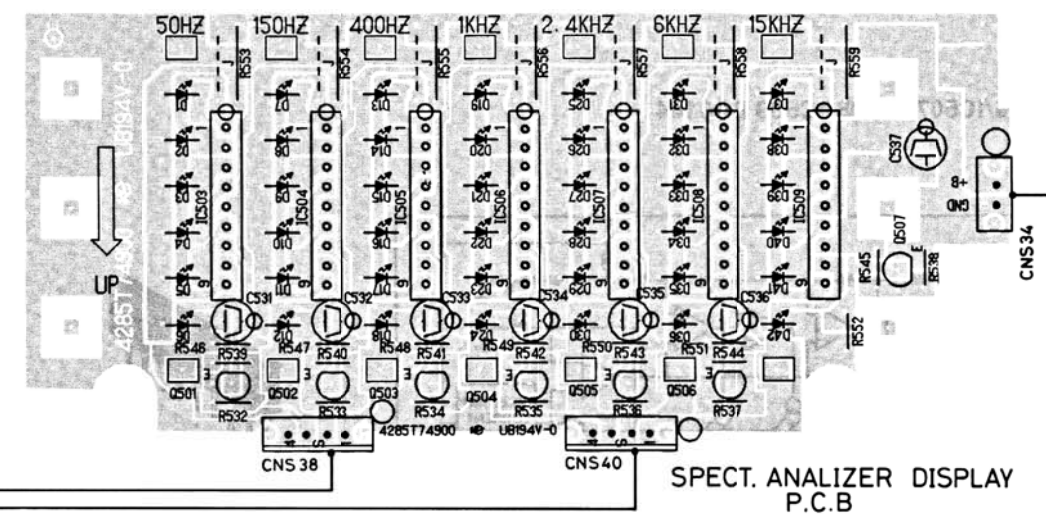
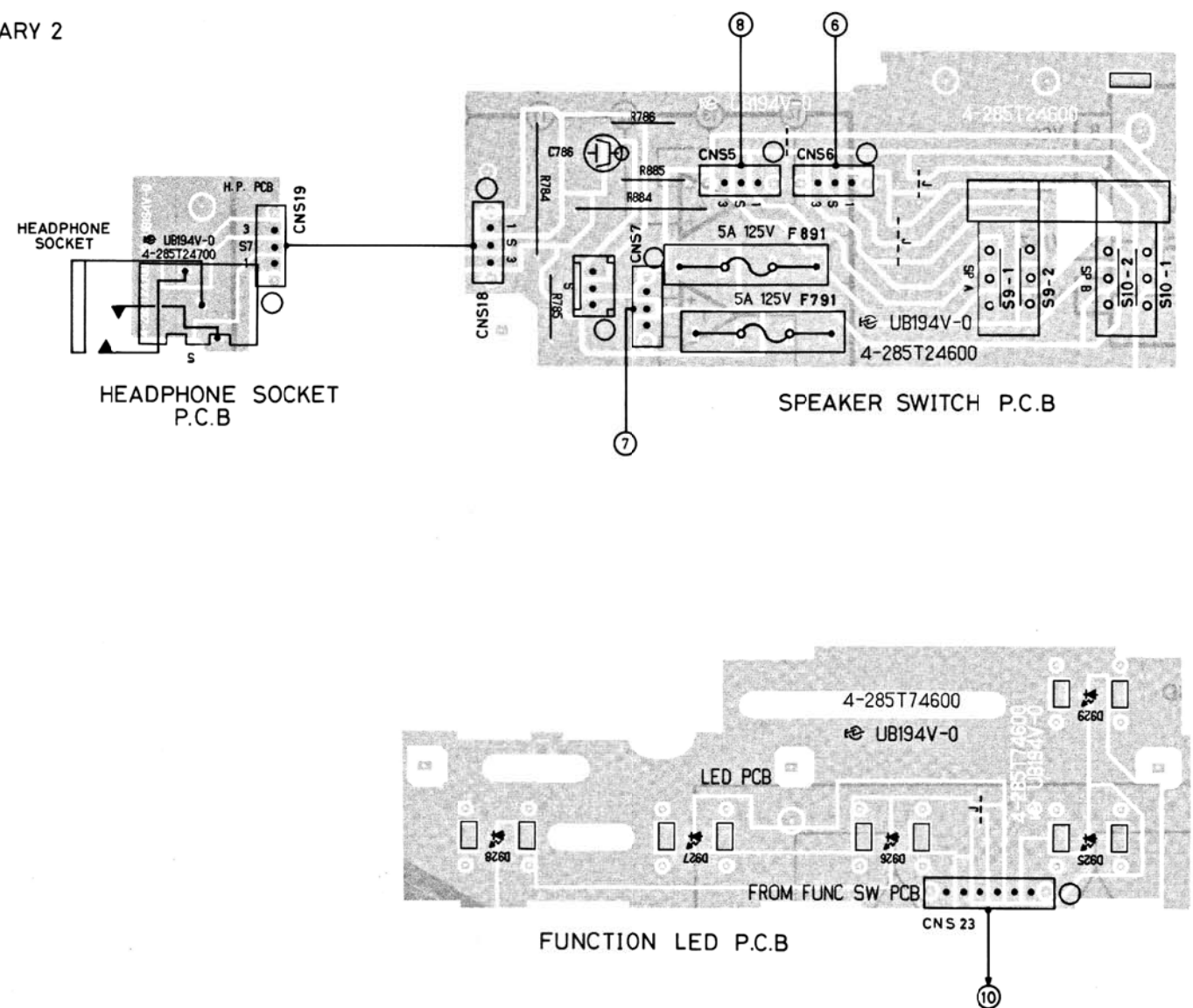
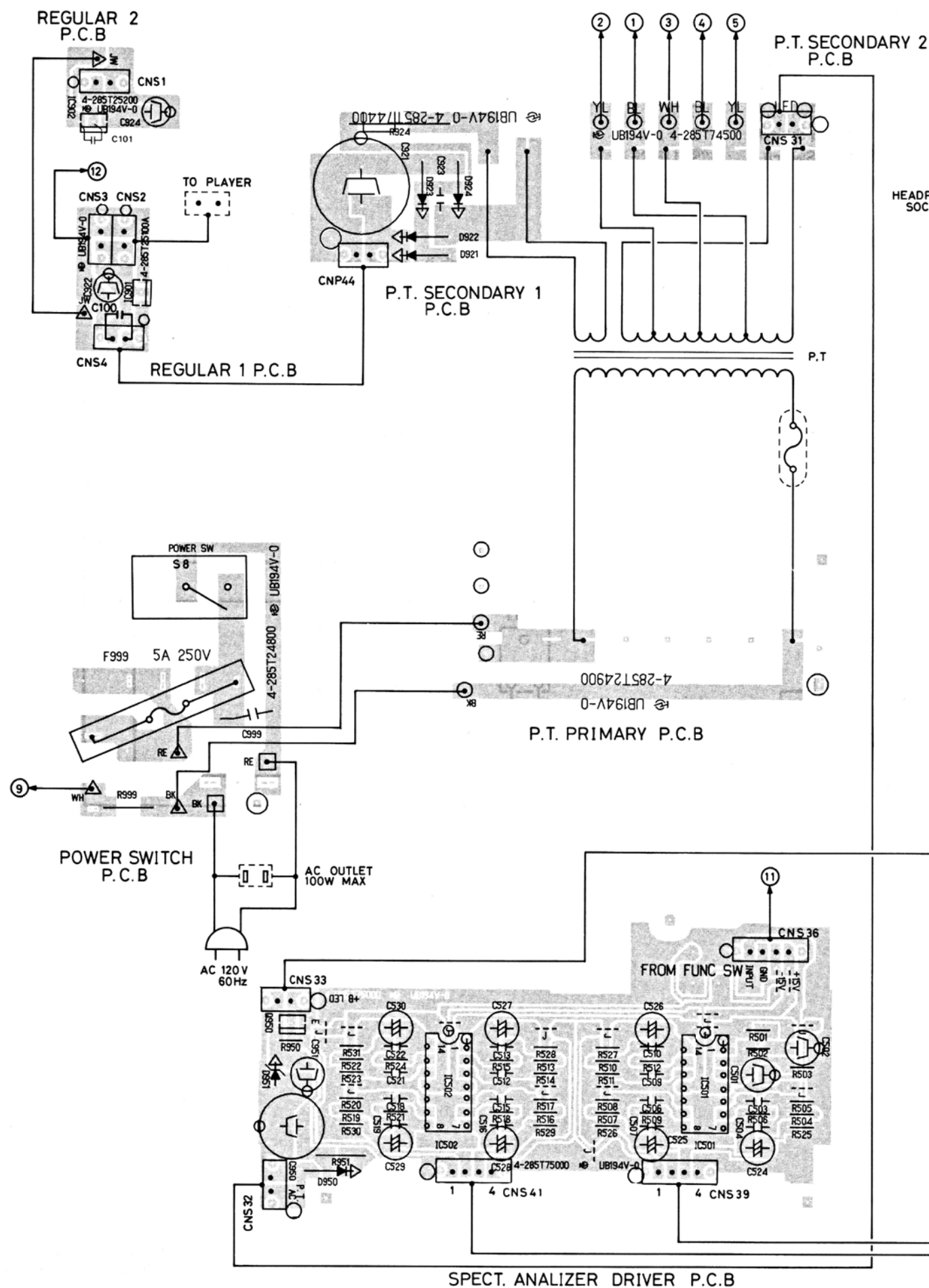


PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol Δ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with Δ , use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual.

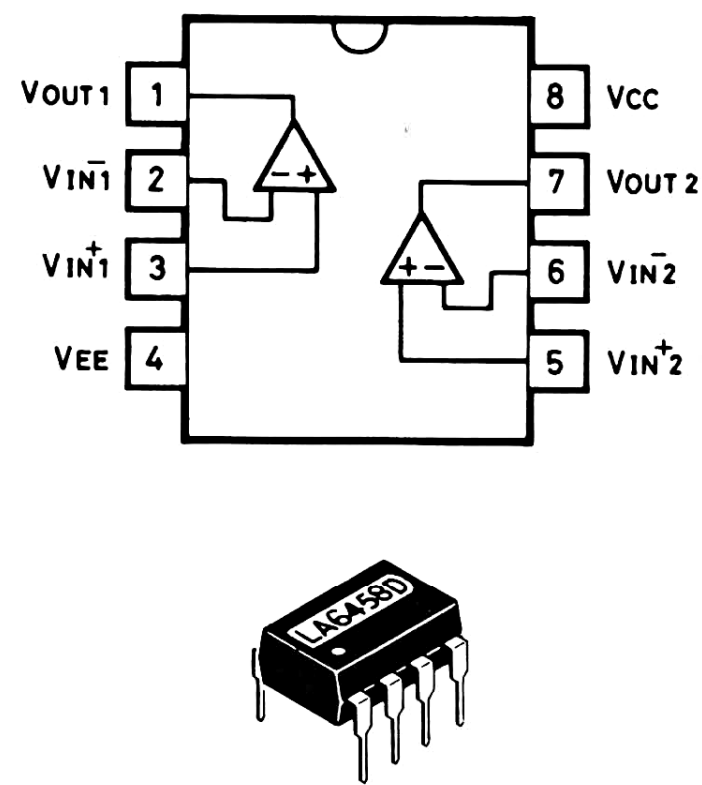
Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.



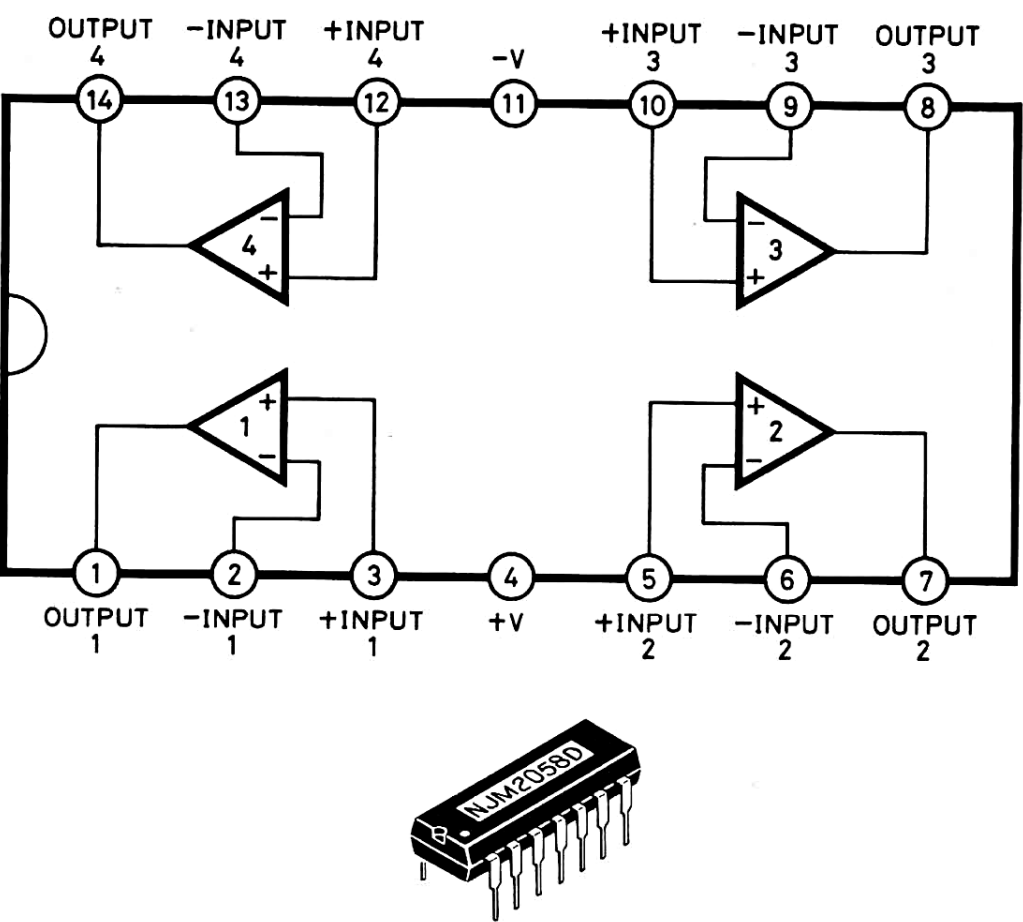


IC BLOCK DIAGRAM

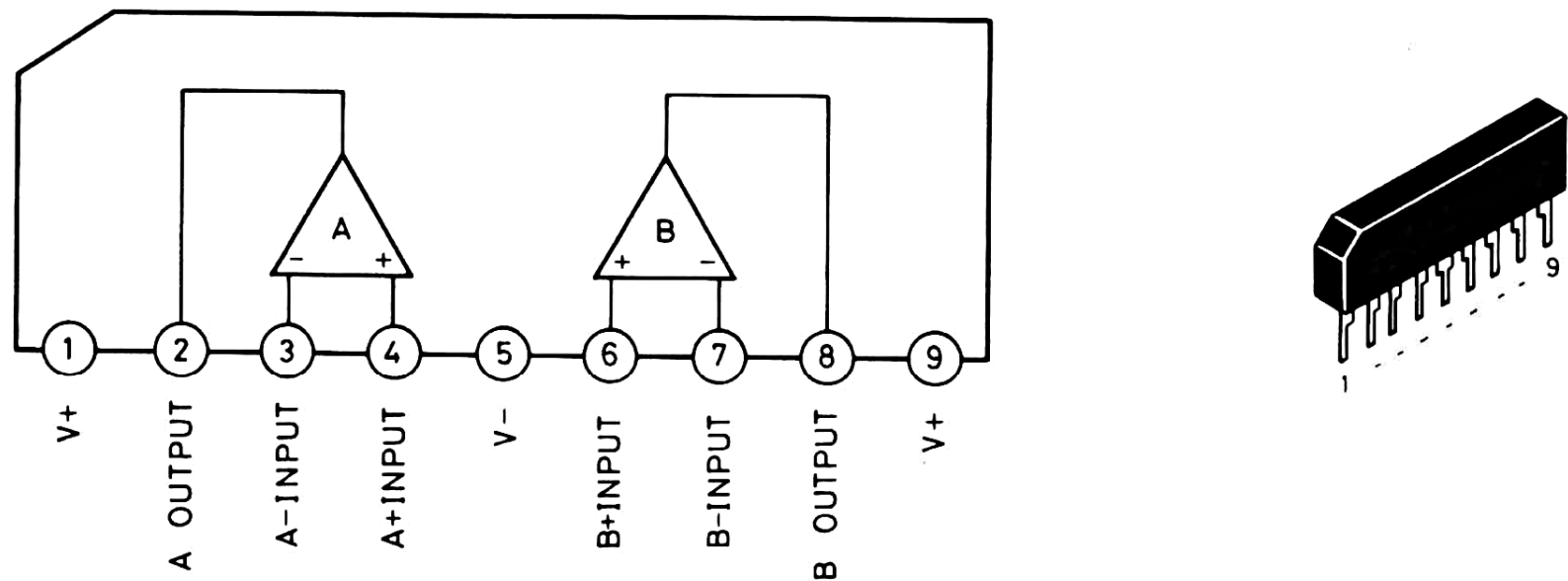
IC701 NJM4558DD/LA6458DS



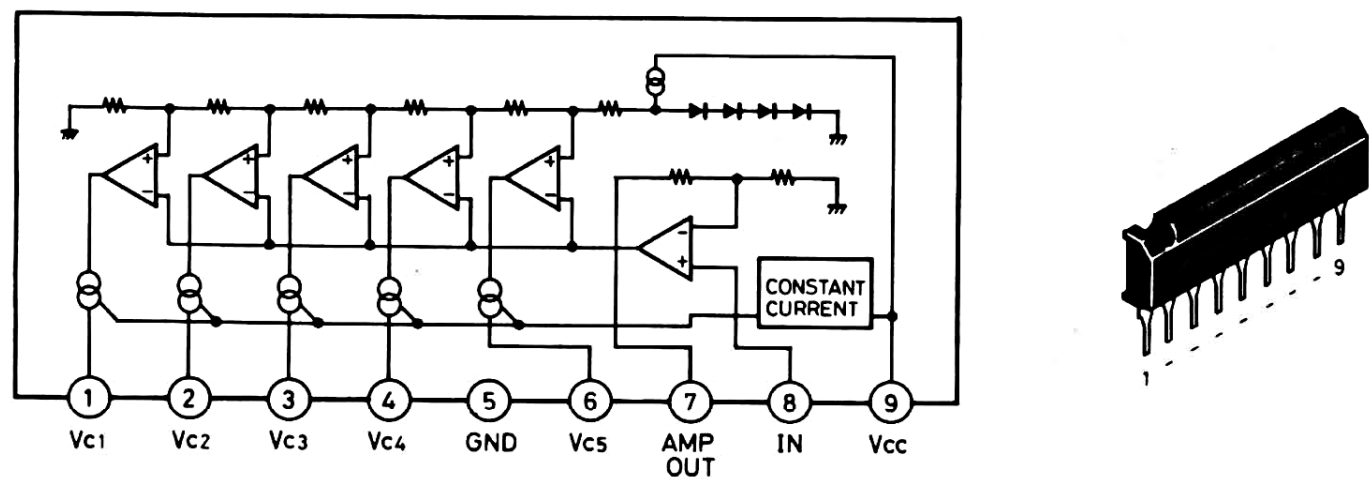
IC501/IC502 NJM20588



IC704 LA6458SS/NJM4558SD



IC503/IC504/IC505/IC506/IC507/IC508/IC509 BA6144



BIAS CURRENT ADJUSTMENT

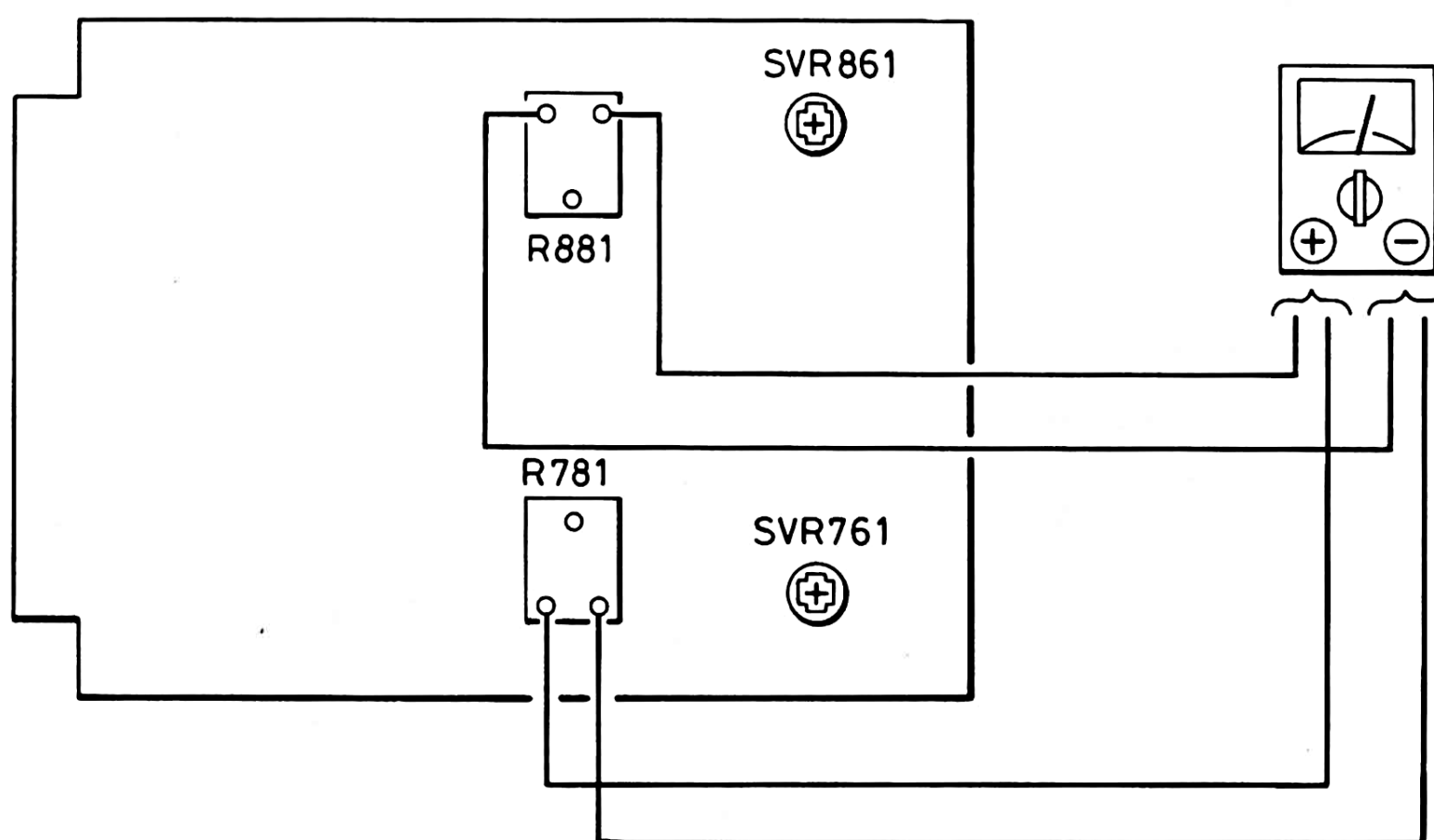
CONDITIONS

VOLUME Control : "O,, (Minimum)
BALANCE Control : Center
FUNCTION Switch : CD
SPEAKER Switch : "OFF,,
LOUDNESS Switch : "OFF,,
MONITOR Switch : "SOURCE,,
MODE Switch : "STEREO,,

Adjust the SVR 761 and SVR 861 just when the power switch is turned on.

L – Channel: SVR761 for 0.5mV ~ 1.0mV reading between terminals of R781.

R – Channel: SVR861 for 0.5mV ~ 1.0mV reading between terminals of R881.



SANYO ELECTRIC INC.
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COMPTON, CALIFORNIA 90220
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