

Service Manual

SR880 U, K, KS, KK

Audio/Video Receiver

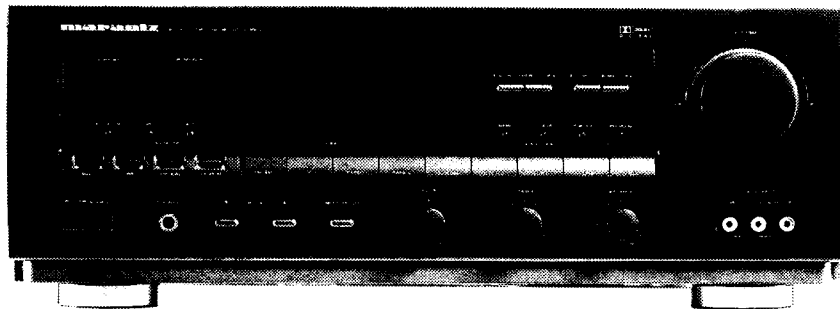


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Please use this service manual with referring to the user guide (D.F.U) without fail.

marantz®

model SR880

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, **MARANTZ** company has created the ultimate in stereo sound. Only original **MARANTZ** parts can insure that your **MARANTZ** product will continue to perform to the specifications for which it is famous.

Parts for your **MARANTZ** equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS :

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order :

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature : any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

USA

MARANTZ AMERICA, INC.
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SINGAPORE I 59099,
PHONE : +65 475 - 4555
FAX : +65 475 - 8623

SHOCK, FIRE HAZARD SERVICE TEST :

CAUTION : After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard N0. 1492.

In case of difficulties, do not hesitate to contact the Technical Department at above mentioned address.

1. TECHNICAL SPECIFICATIONS

FM TUNER SECTION

Frequency Range	87.5 – 108.0 MHz
Usable Sensitivity	IHF 1.3 μ V/13.5 dBf
Signal to Noise Ratio	Mono/Stereo 76/68 dB
Distortion	Mono/Stereo 0.2 / 0.5%
Stereo Separation	1 kHz 40 dB
Alternate Channel Selectivity	\pm 400 kHz 65 dB (U version) \pm 300 kHz 65 dB (K, KS, KK version)
Image Rejection	98 MHz 50dB (U version) 98 MHz 70 dB (K, KS, KK version)
Tuner Output Level	1 kHz, \pm 75 kHz Dev 800mV (U version) 1 kHz, \pm 40 kHz Dev 800mV (K, KS, KK version)

AM TUNER SECTION

Frequency Range	520 – 1710 kHz (U version) 531 – 1602 or 520 – 1710 kHz (K, KS, KK version)
Signal to Noise Ratio	50 dB
Usable Sensitivity	Loop 500 μ V
Distortion	1 kHz, 30% Mod. 0.5%
Selectivity	\pm 20 kHz 70 dB (U version) \pm 18 kHz 70 dB (K, KS, KK version)

AUDIO SECTION

Rated Power	
Stereo Mode FRONT (20 Hz – 20 kHz) ...	8 ohms 110W / Ch (2ch driven)
(Main in) Center (40 Hz – 20 kHz)	8 ohms 110W / Ch
(Main in) Surround (40 Hz – 20 kHz)	8 ohms 75W / Ch
THD Front (20 Hz – 20 kHz)	8 ohms 0.05%
Input Sensitivity/Impedance	
Linear	210mV/40 kohms
Signal to Noise Rate (IHF A)	
Linear	82 dB
Dolby Surround Adjacent Channels Separation	50 dB

VIDEO

Television Format	NTSC (U, KK version) PAL/NTSC/SECAM (K, KS version)
Input Level/Impedance	1Vp-p/75 ohms
Output Level/Impedance	1Vp-p/75 ohms
Video Frequency Response	5 Hz to 7 MHz (– 3 dB)
S/N	63 dB

GENERAL

Power Requirement	AC 120V 60 Hz (U version) AC 110/120/220/240V 50/60 Hz (K version) AC 230V 50 Hz (KS version) AC 220V 50/60 Hz (KK version)
Power Consumption	375W
Dimension (MAX)	
Width	17- $\frac{1}{4}$ inches (439 mm)
Height	6- $\frac{1}{4}$ inches (158 mm)
Depth	18 inches (458 mm)
Weight	32.0 lds. (14.5 kg)

ACCESSORIES

Remote Control Unit RC2000 (U, KS (07LOT) version)	1
Remote Control Unit RC880SR (K, KK version)	1
AA-size batteries (U, KS (07LOT) version)	4
AAA-size batteries (K, KK version)	2
FM Feeder Antenna	1
FM Antenna Converter (U version only)	1
AM Loop Antenna	1

AC-3 SECTION

Output Level/Output Impedance

MAIN L/R, CENTER, SURROUND L/R	
1 KHz, 0 dB INPUT	0 – 3.5 V / 500 Ω
SUBWOOFER	
50 Hz, 0 dB INPUT	0 – 9 V / 500 Ω
Input Impedance (RF, COAXIAL)	75 Ω

Frequency Response

MAIN L/R, CENTER, SURROUND L/R (LARGE)	
20 Hz – 20 KHz	\pm 0.5dB

Filter Characteristics

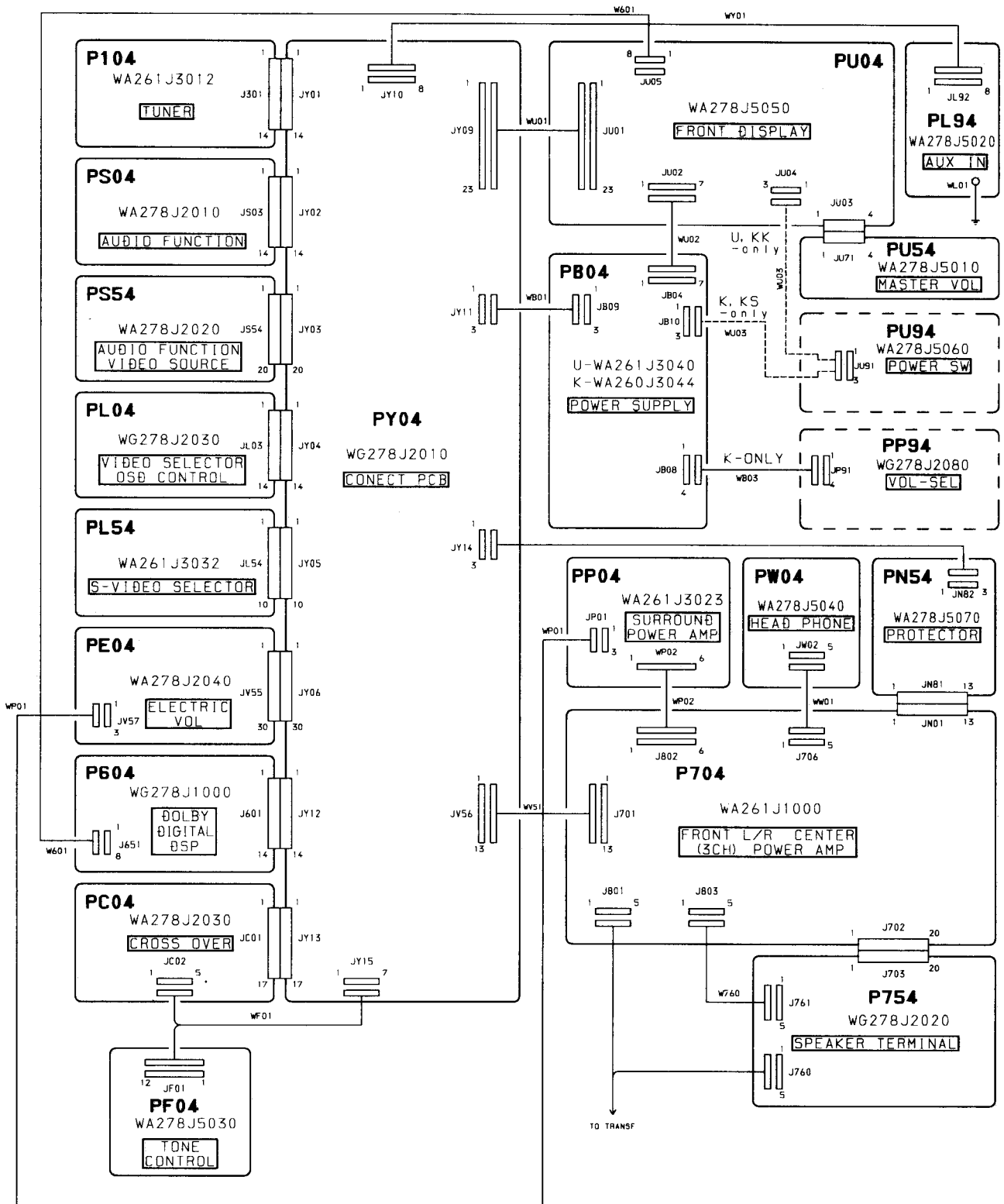
MAIN L/R, CENTER, SURROUND L/R (SMALL)	
H.P.F.	fc=100 Hz, 12 dB/oct.
SUBWOOFER	
L.P.F.	fc=100 Hz, 24 dB/oct.

Total Harmonic Distortion

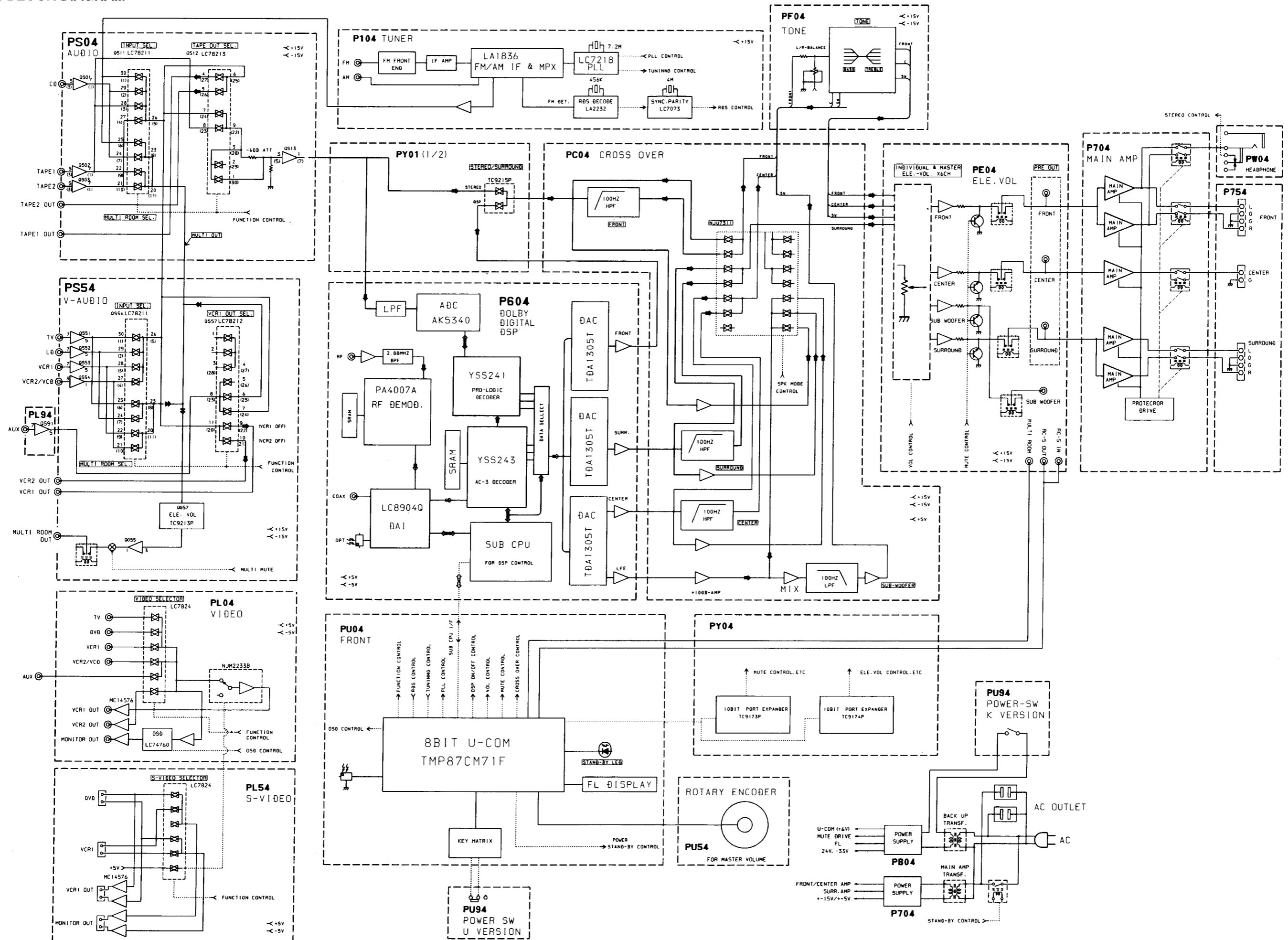
MAIN L/R, CENTER, SURROUND L/R (1 KHz)	0.01% or less
SUBWOOFER (50 Hz)	0.1% or less
Signal to Noise Ratio (IHF-A)	98 dB
Channel Separation (1 KHz)	80 dB

Specifications subject to change without prior notice.

2. WIRING DIAGRAM

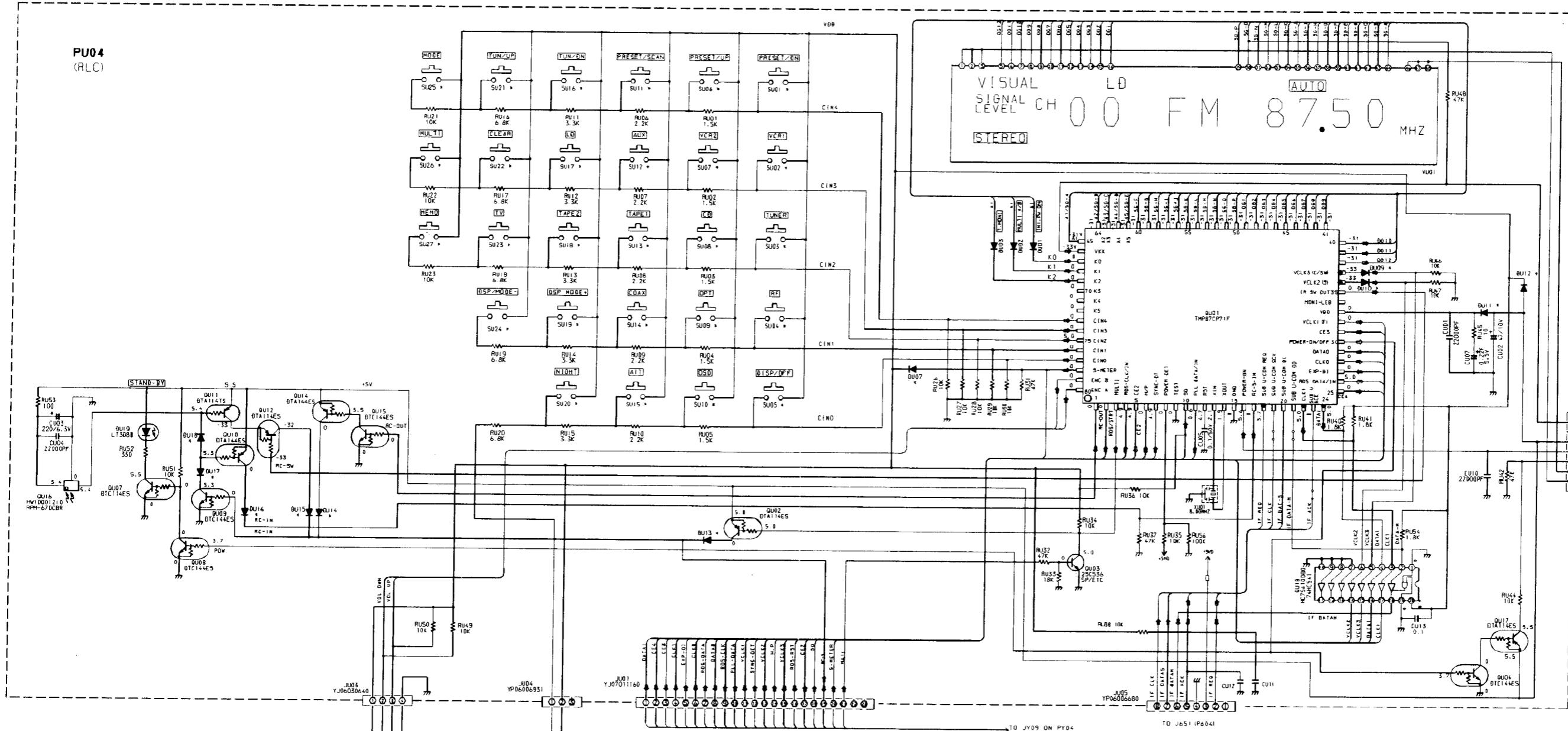


3. BLOCK DIAGRAM

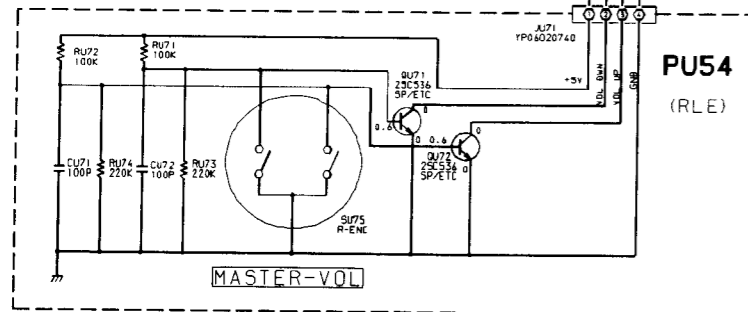


4. SCHEMATIC DIAGRAM AND PARTS LOCATION (Pattern Side)

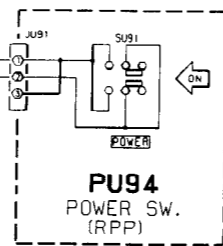
PU04 Front P.C Board



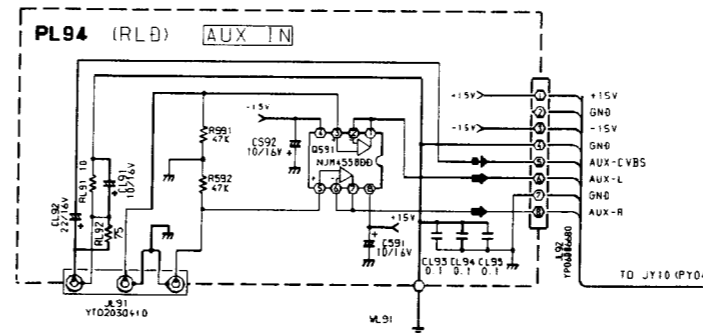
PU54 Master Vol P.C. Board



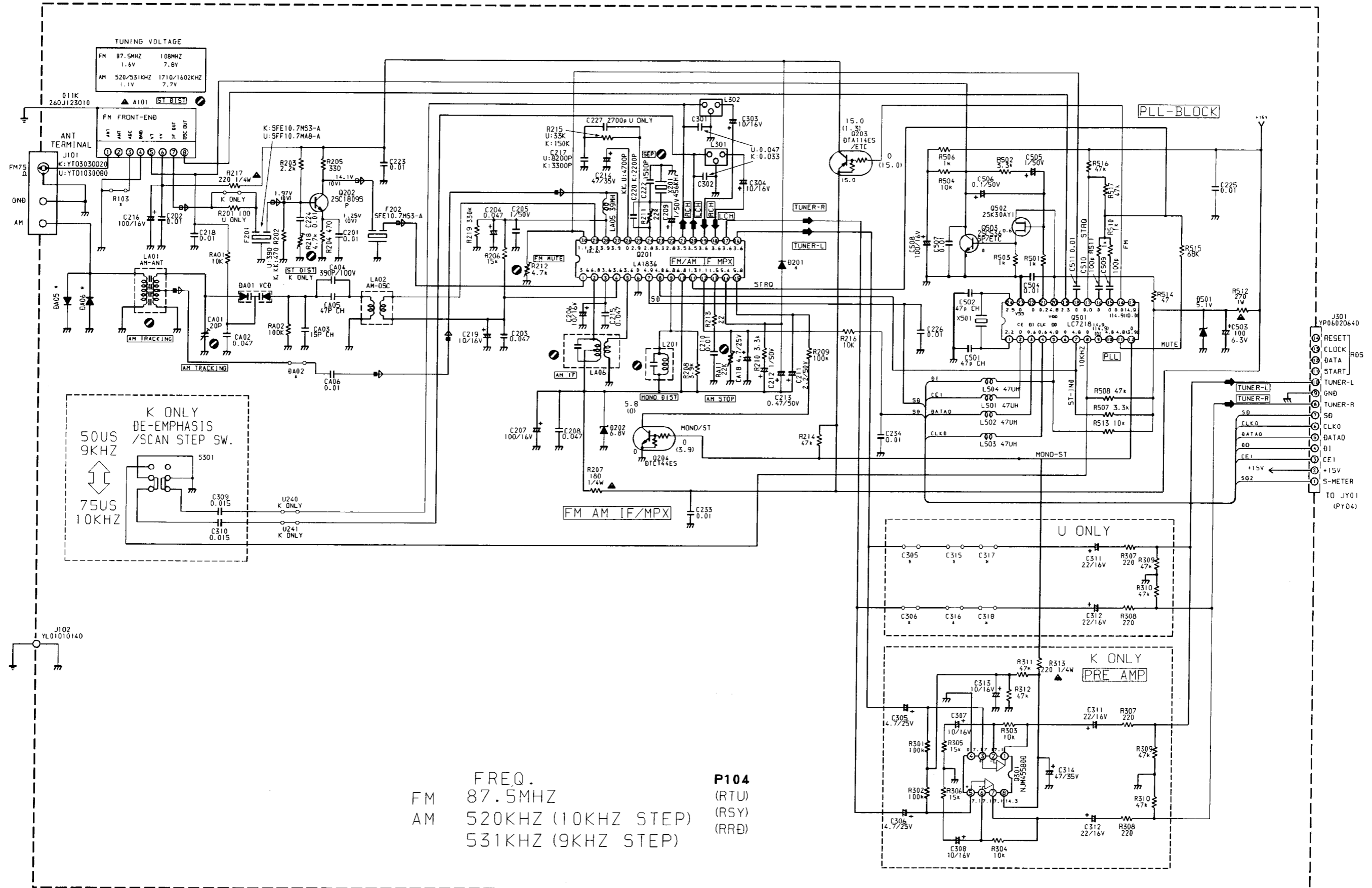
PU94 Power SW P.C. Board U, KK version



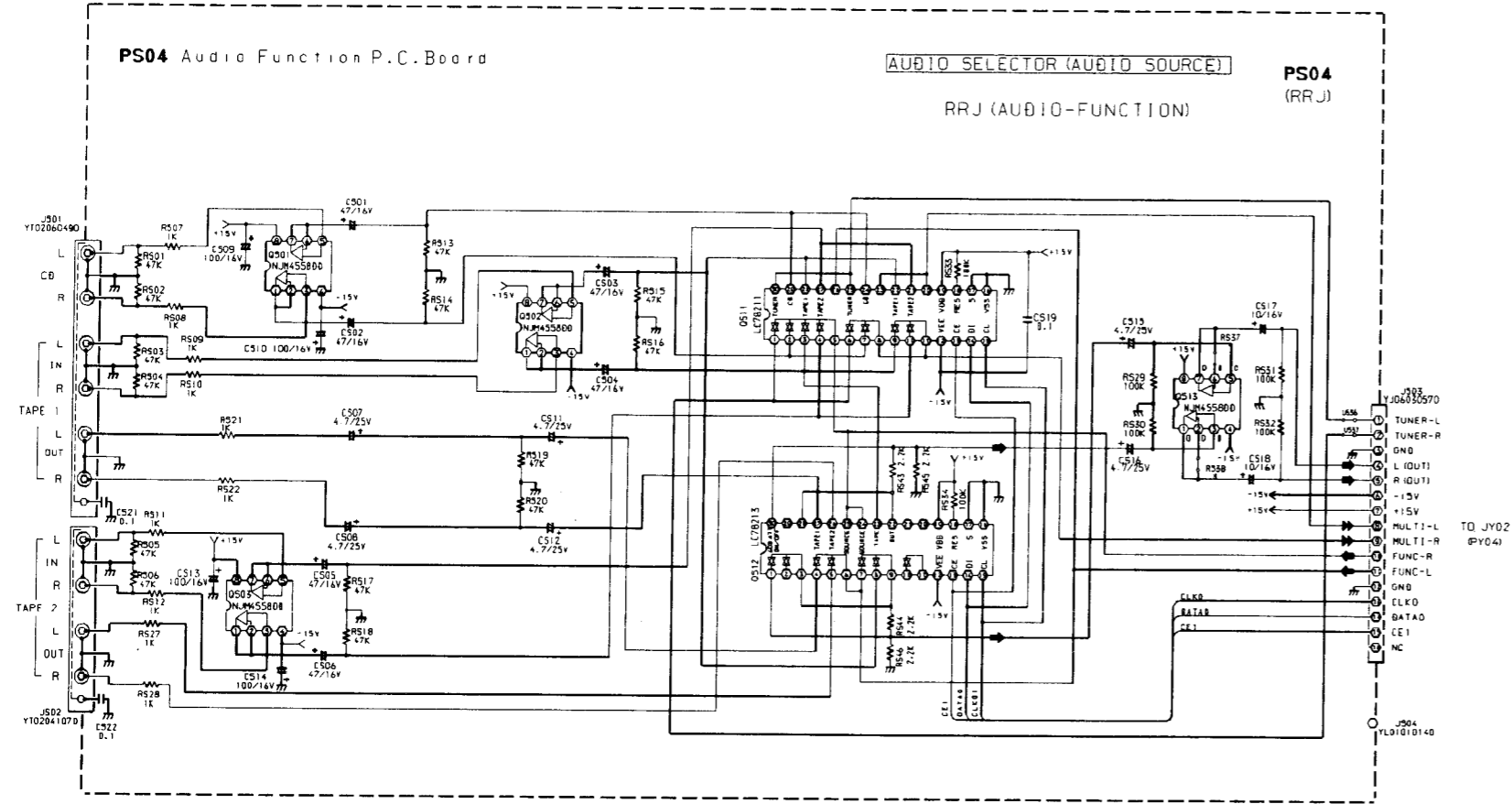
PL94 Aux in P.C. Board



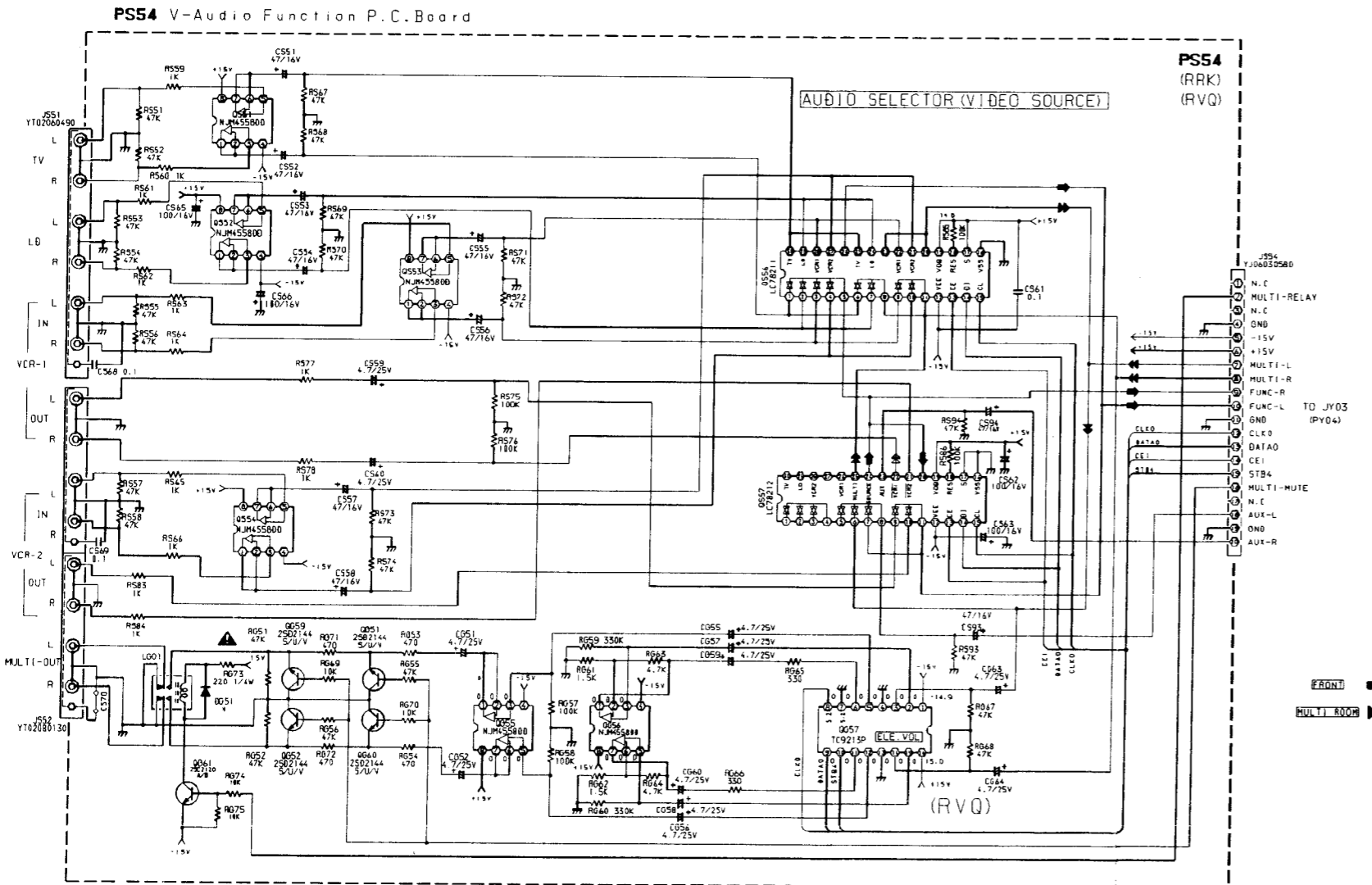
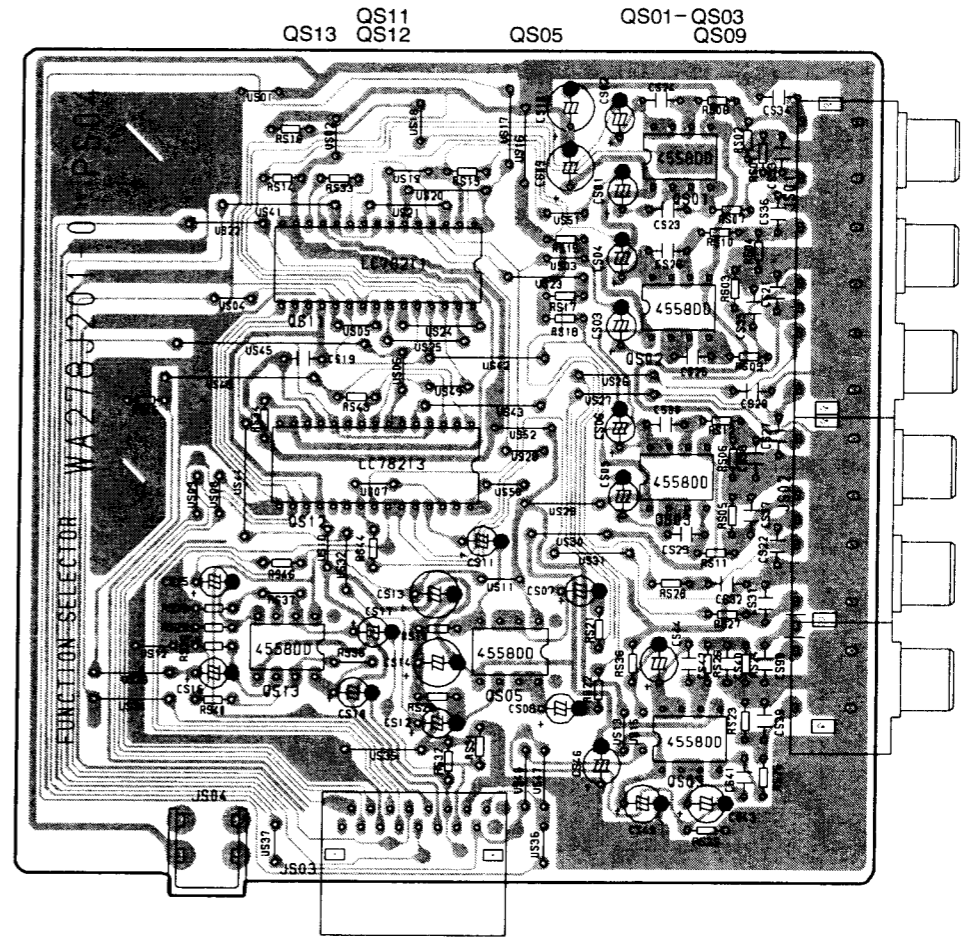
P104 Tuner P.C. Board



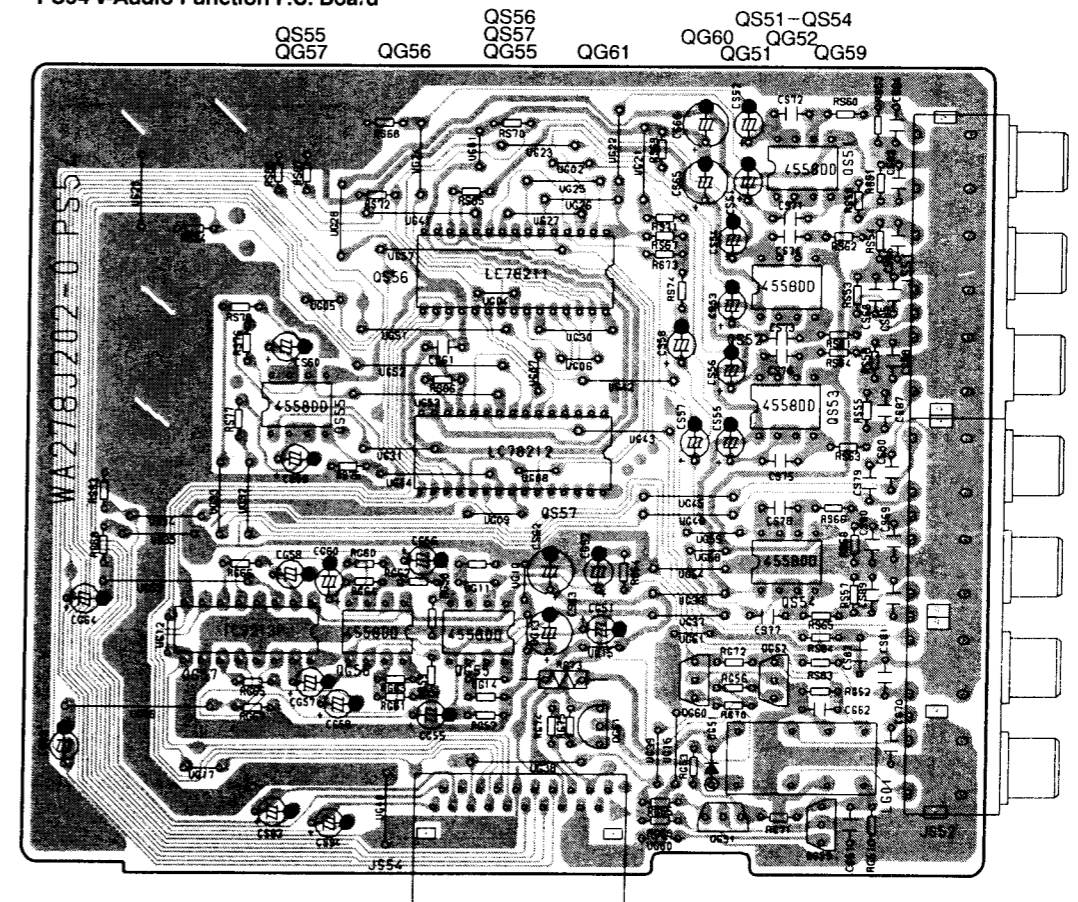
TUNER



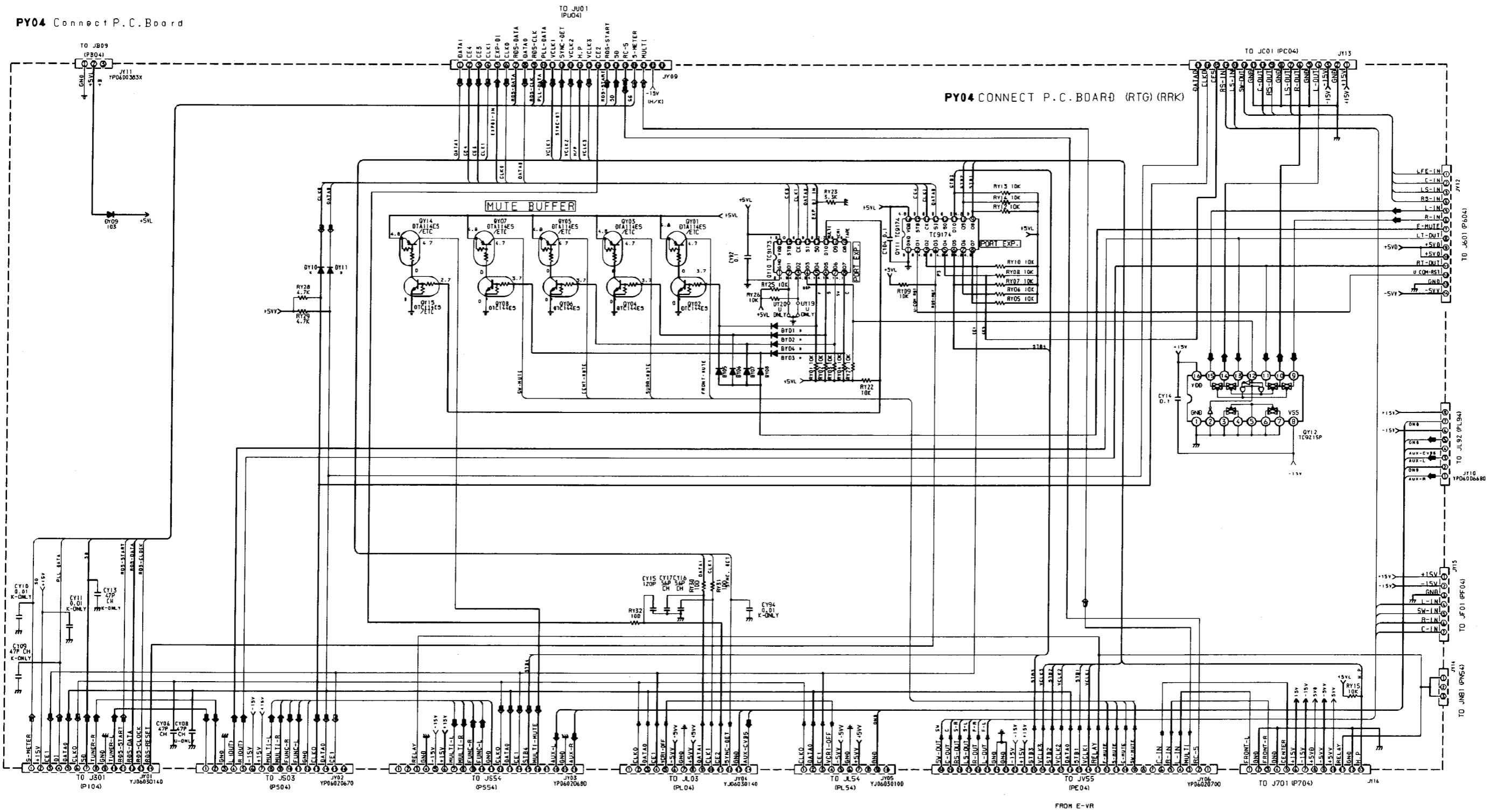
PS04 Audio Function P.C. Board



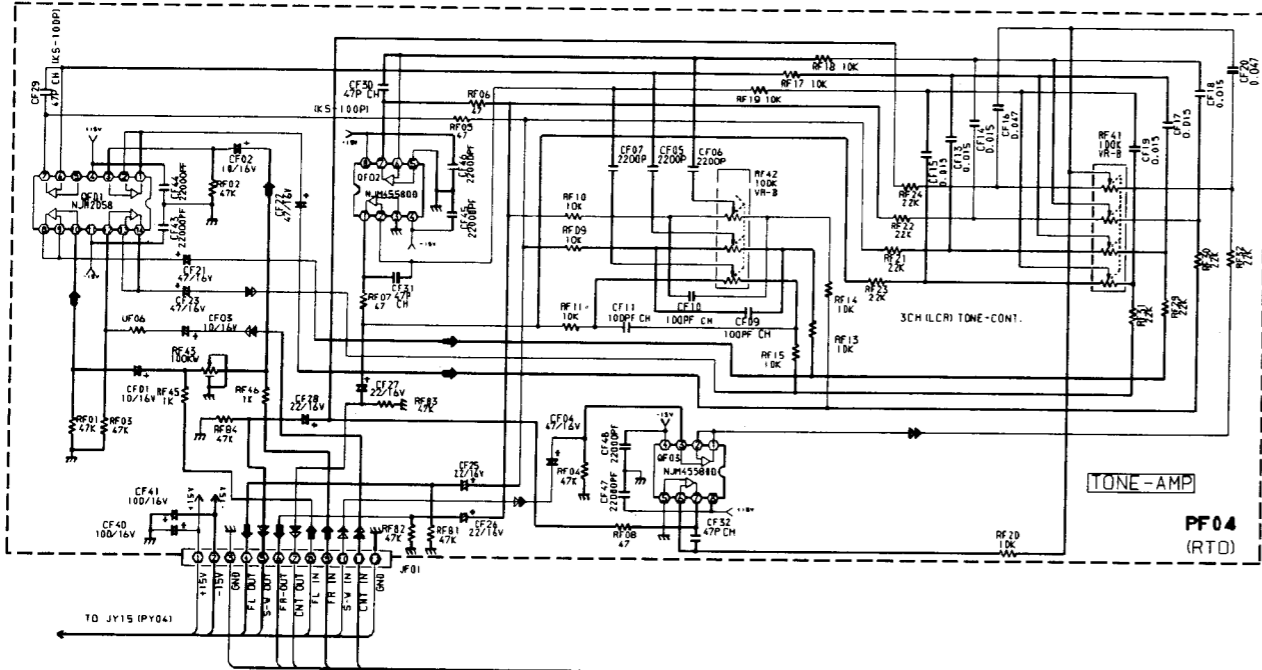
PS54 V-Audio Function P.C. Board



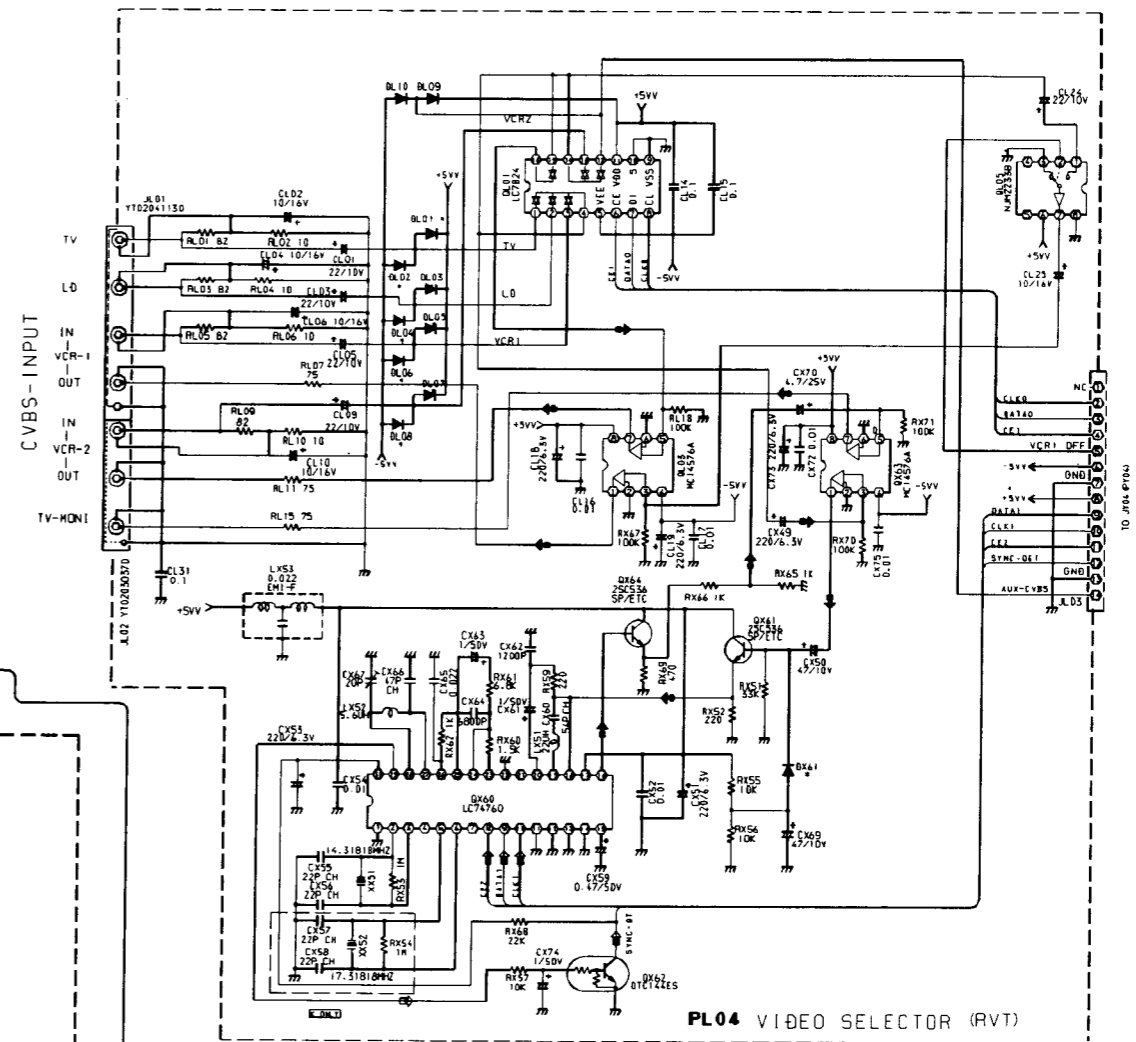
PY04 Connect P.C. Board



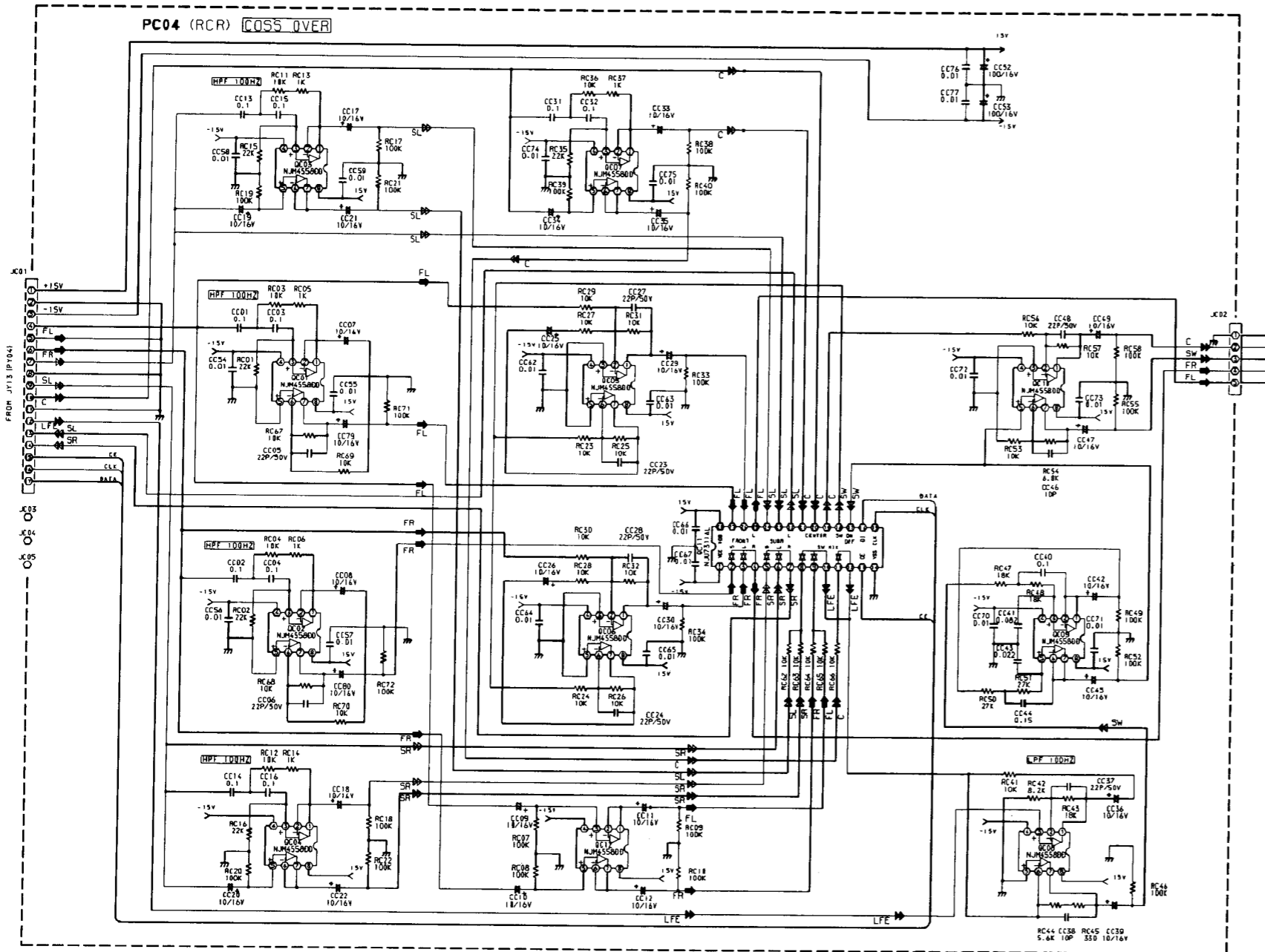
PF04 Tone P.C. Board



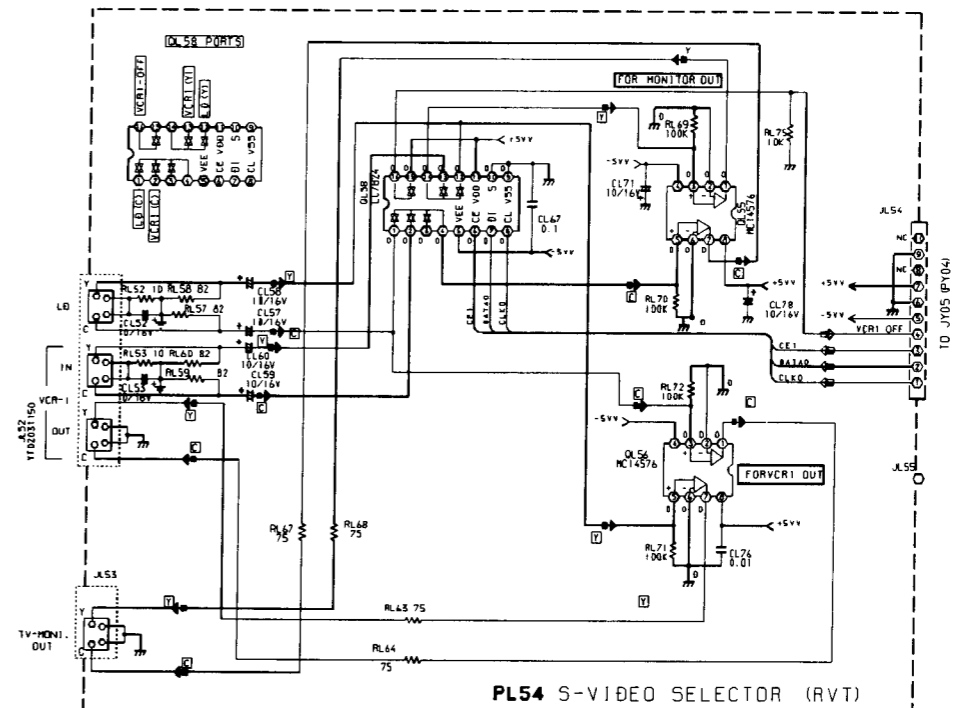
PL04 Video Selector P.C. Board

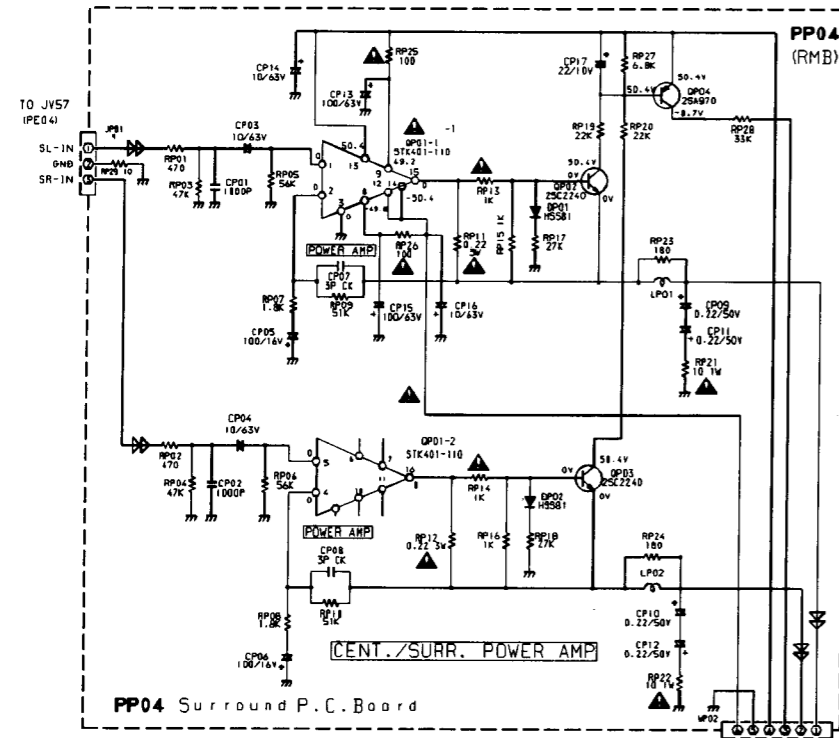


PC04 Cross Over P.C. Board

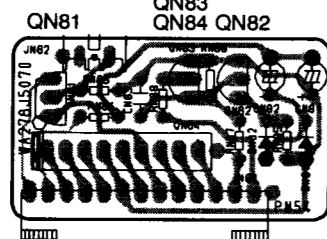


PL54 S-Video Selector P.C. Board

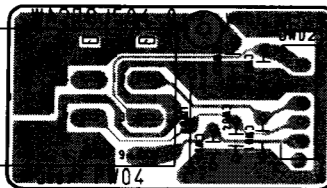




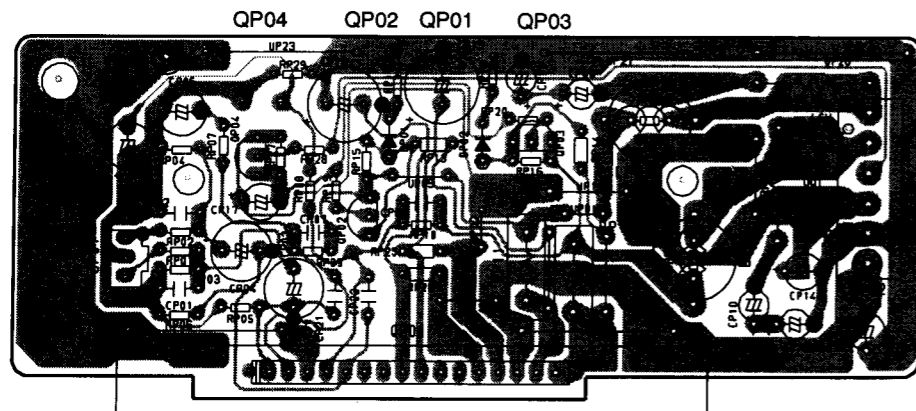
PN54 Protector P.C. Board



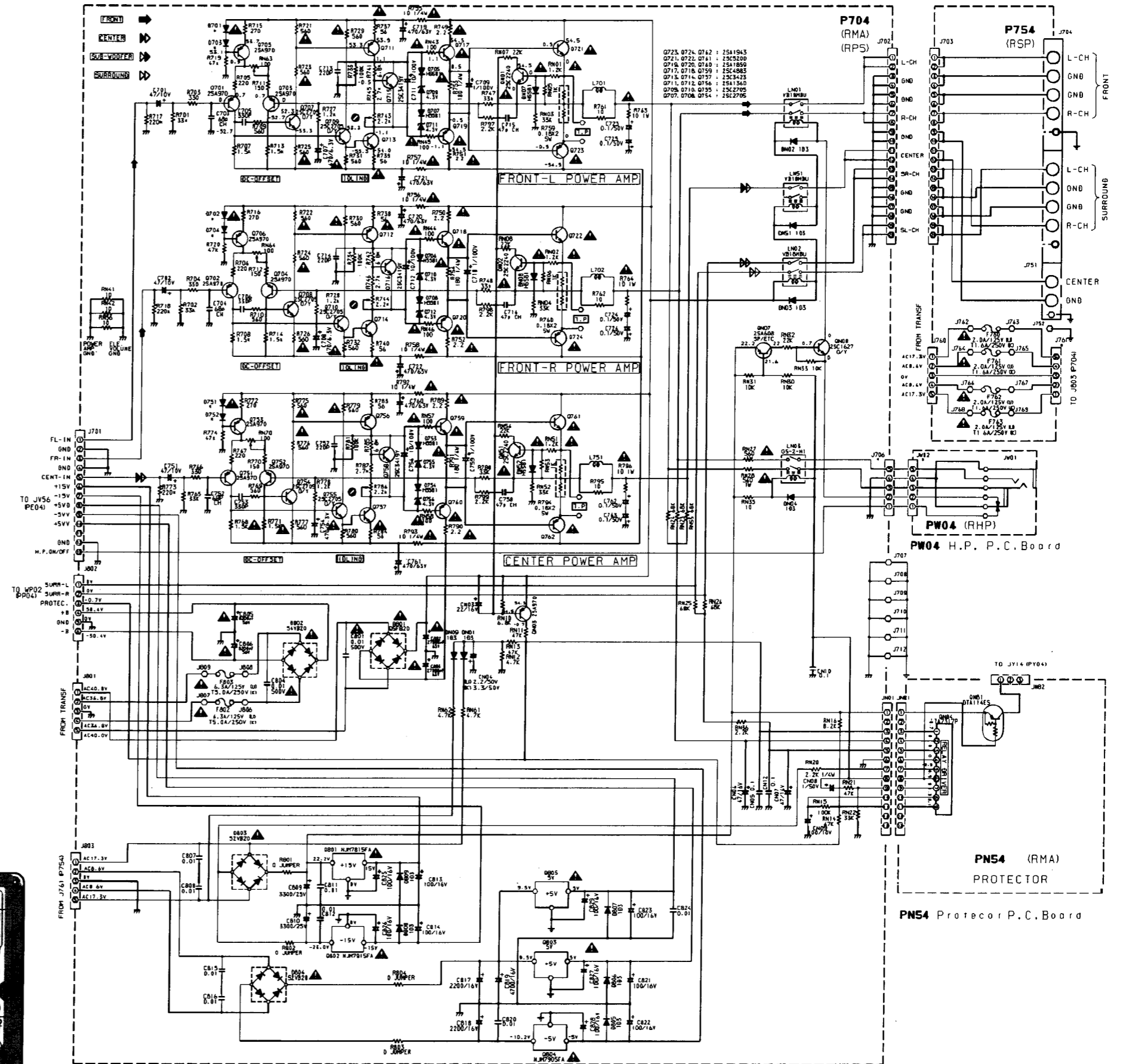
PW04 H.P. P.C. Board



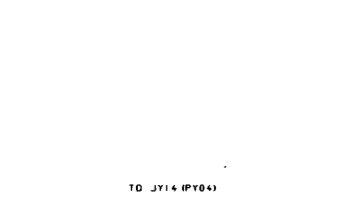
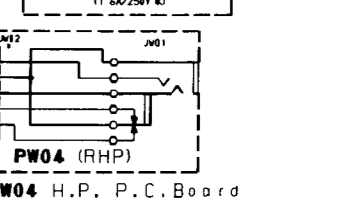
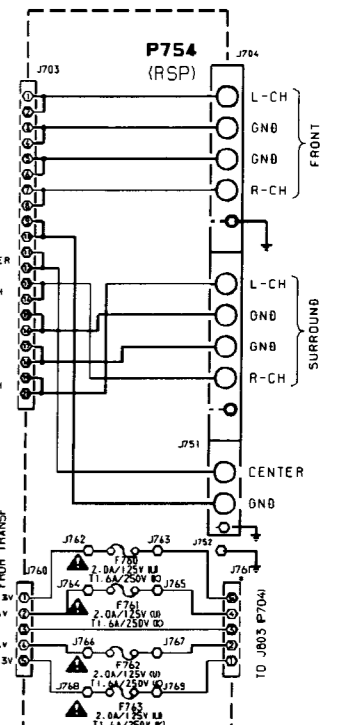
PP04 Surround P.C. Board



P704 Main Amp P.C. Board

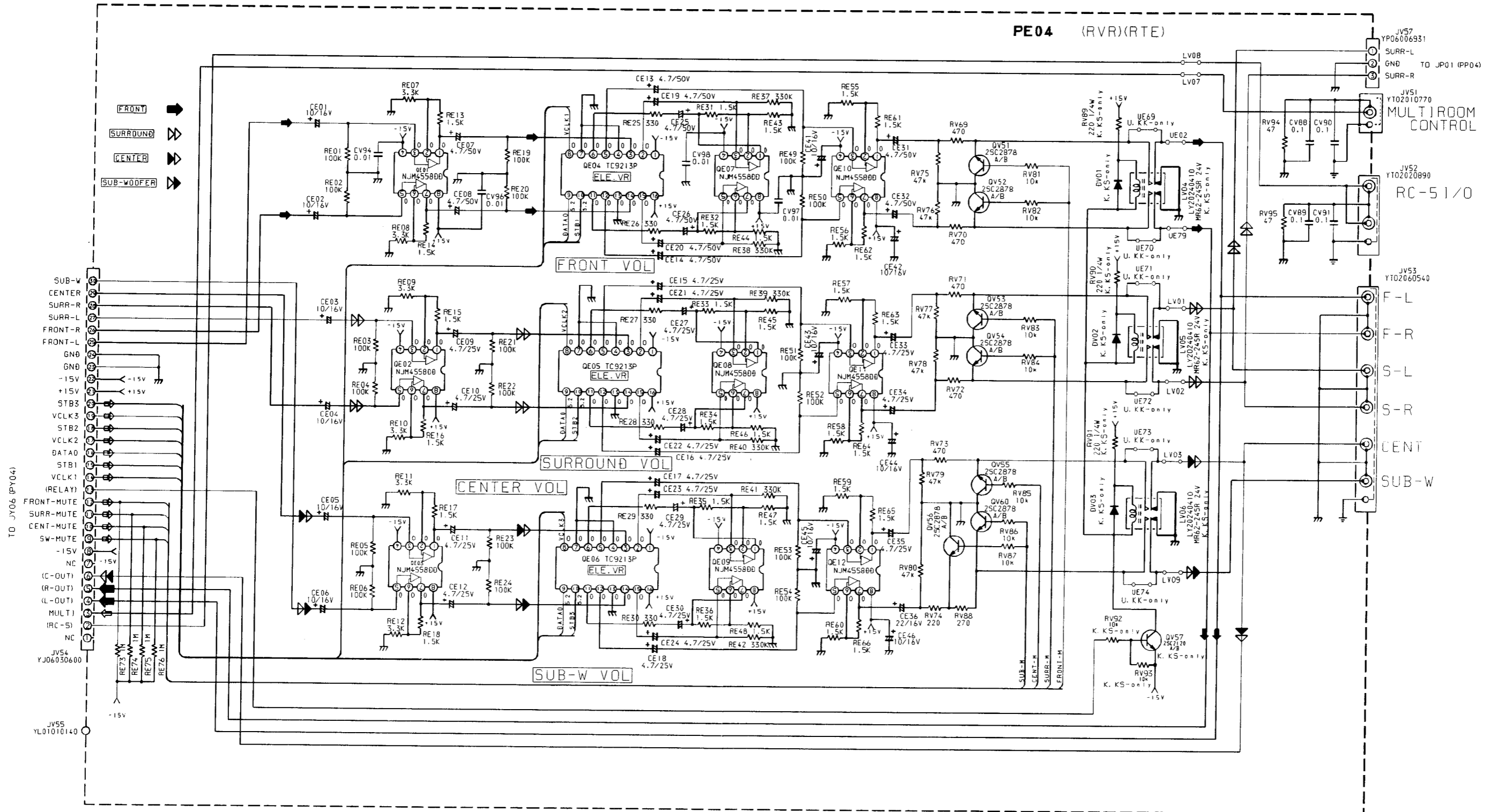


P754 SPK Terminal Board

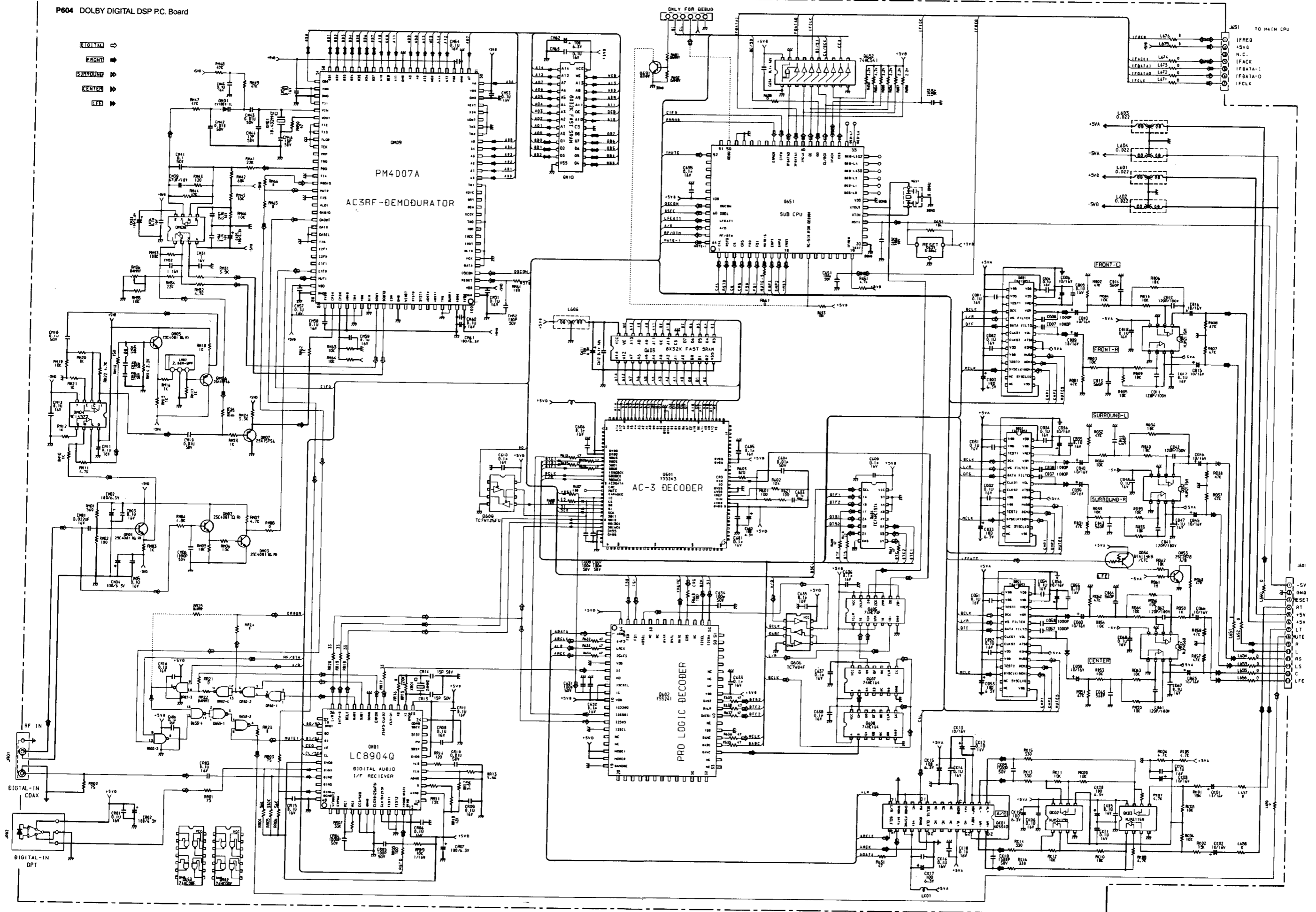


PE04 Ele.Vol P.C. Board

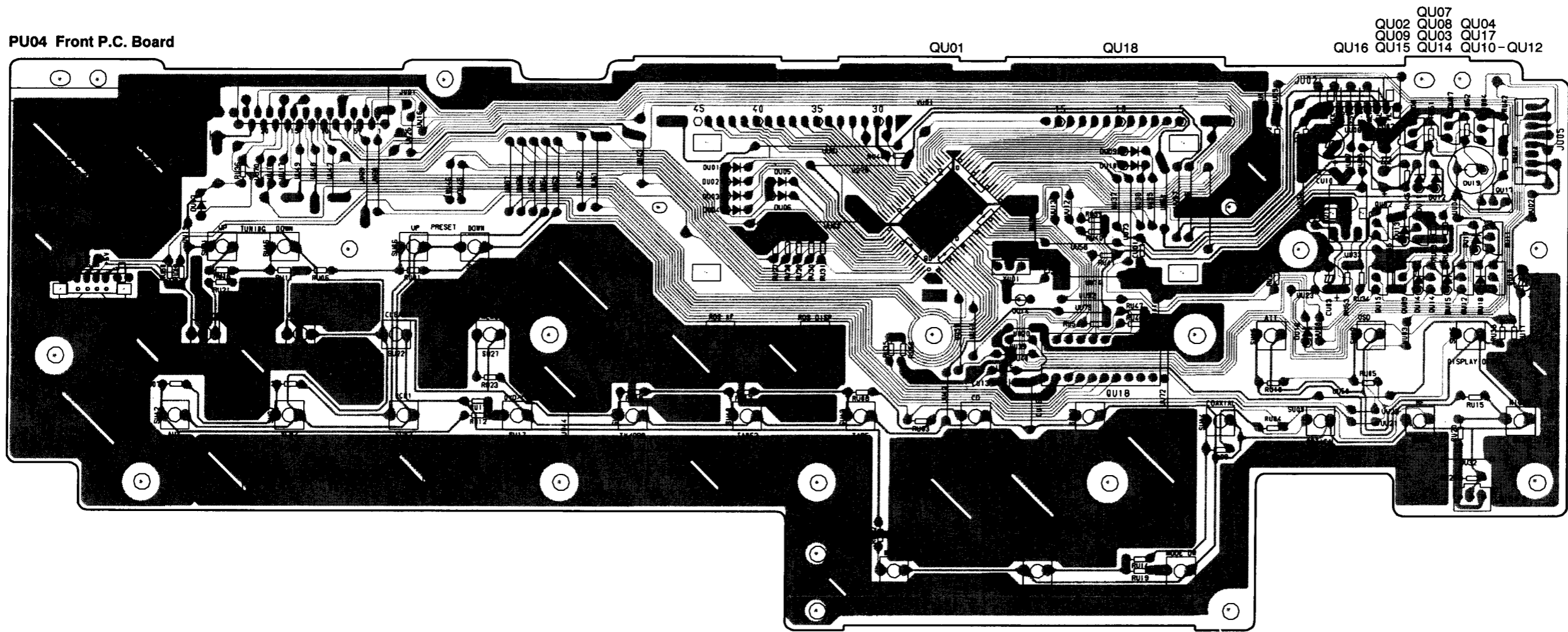
PE04 (RVR)(RTE)



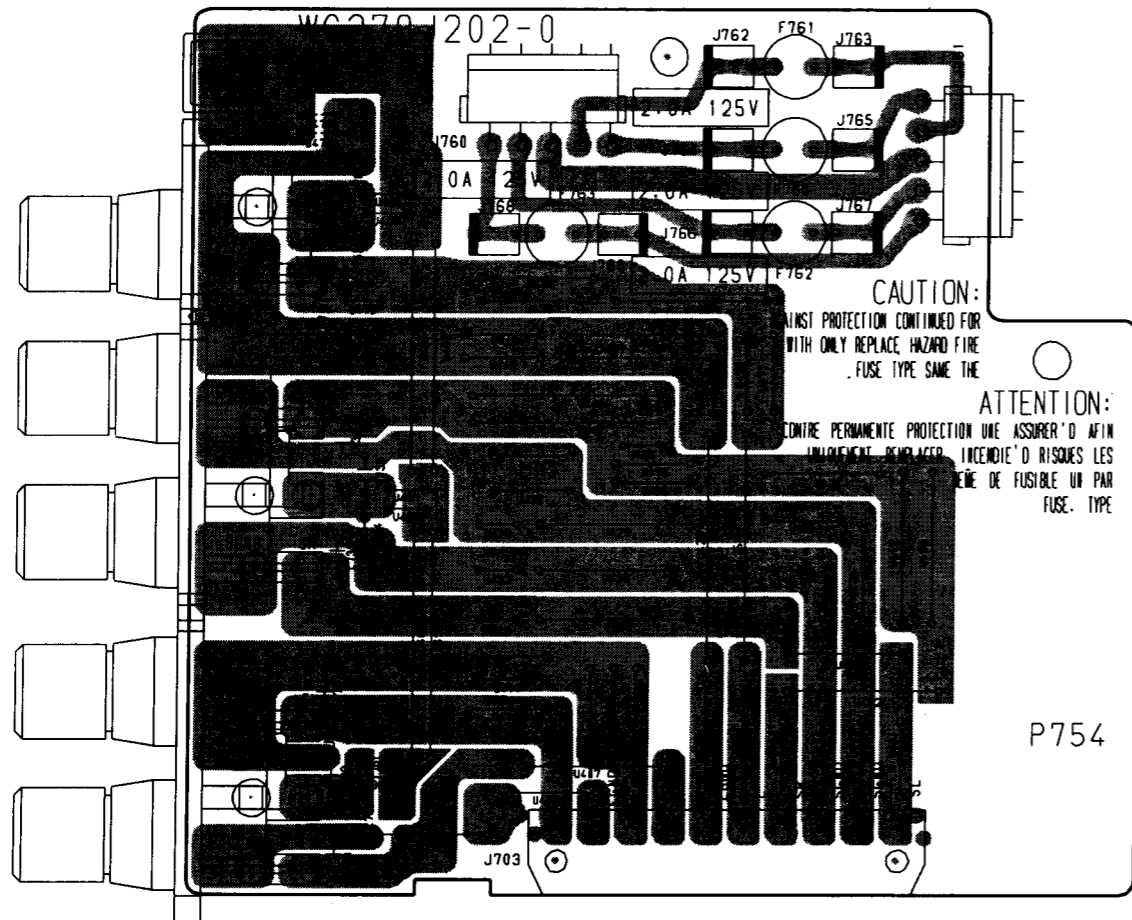
P604 DOLBY DIGITAL DSP P.C. Board



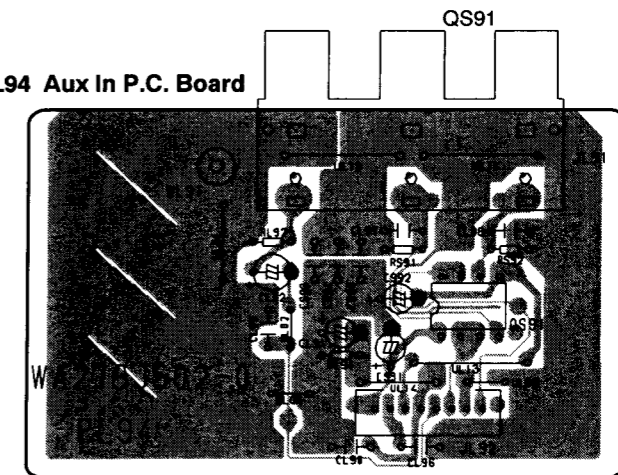
PU04 Front P.C. Board



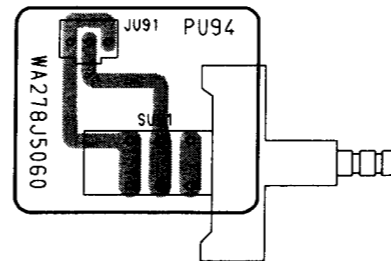
P754 SPK Terminal P.C. Board



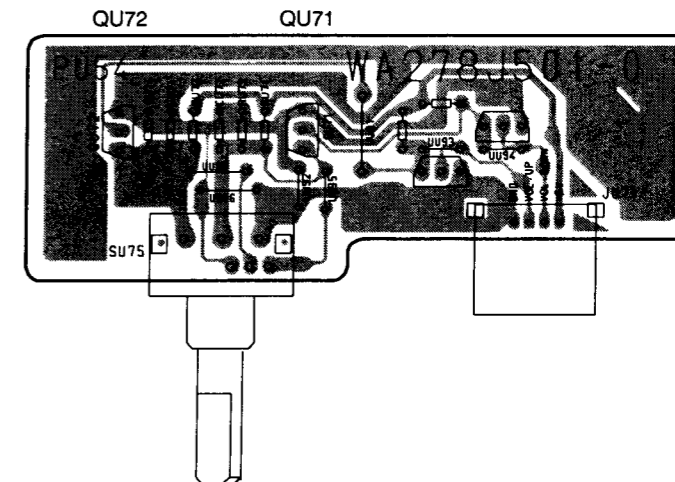
PL94 Aux In P.C. Board



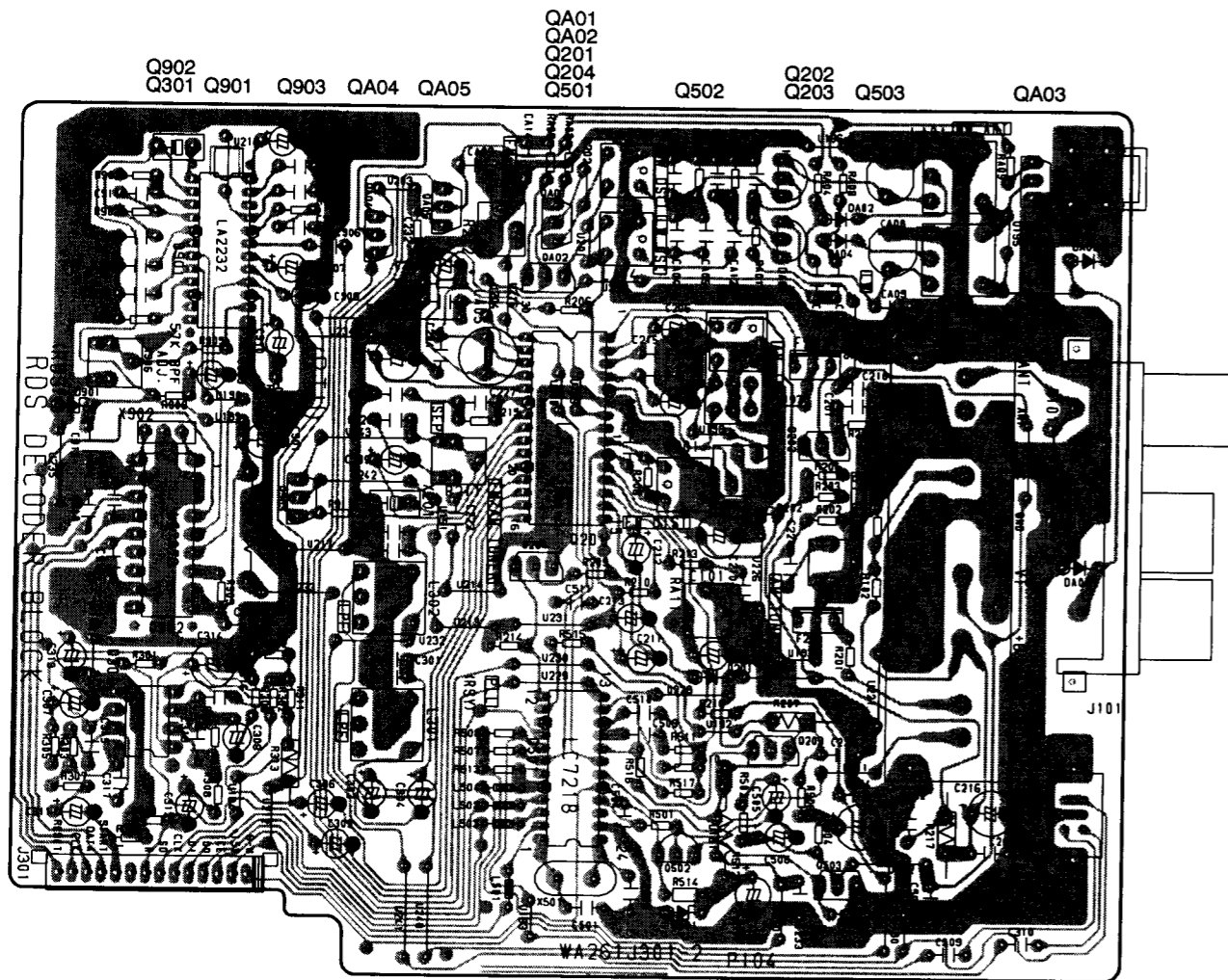
PU94 Power SW P.C. Board



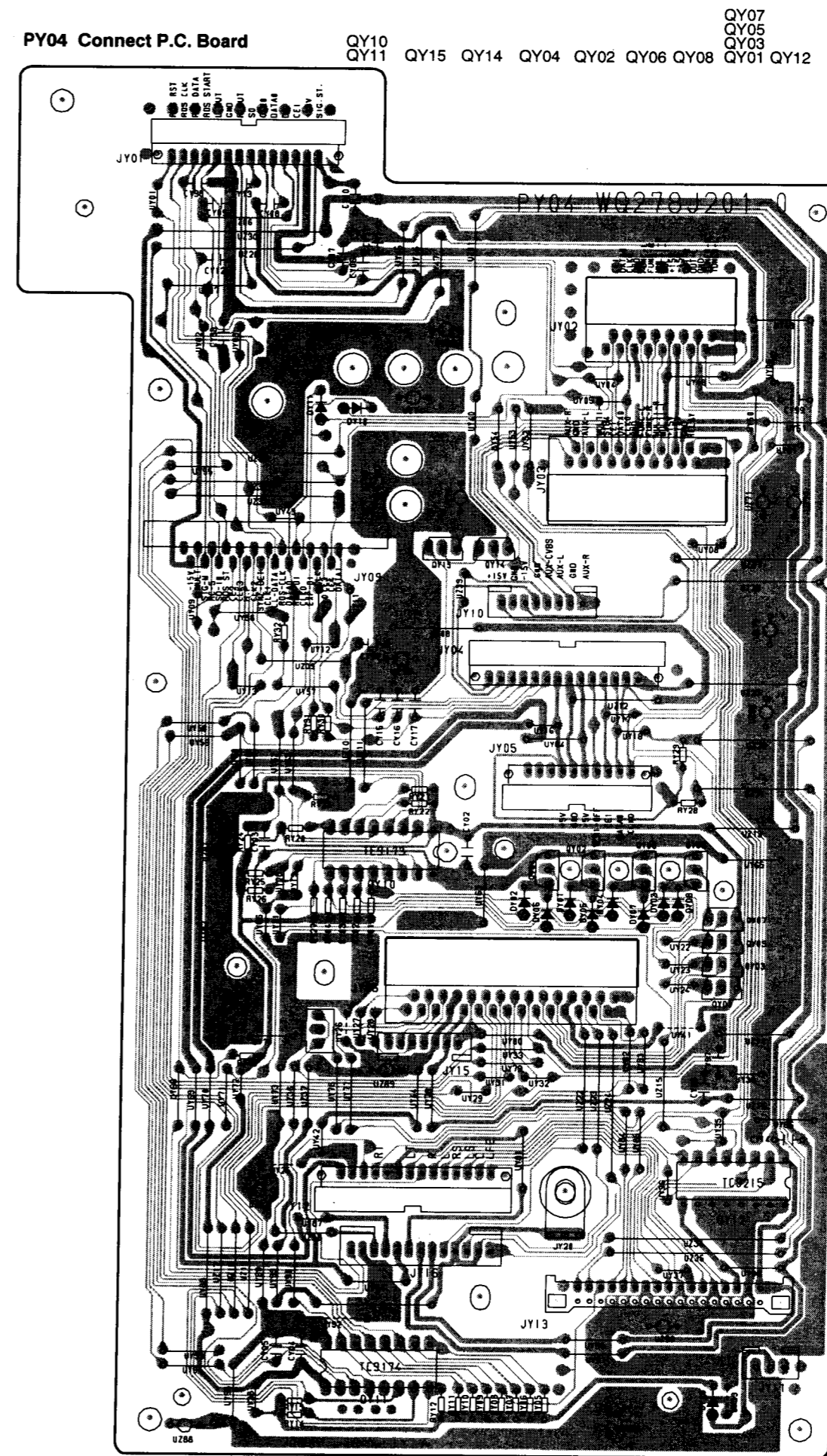
PU54 Master Vol P.C. Board



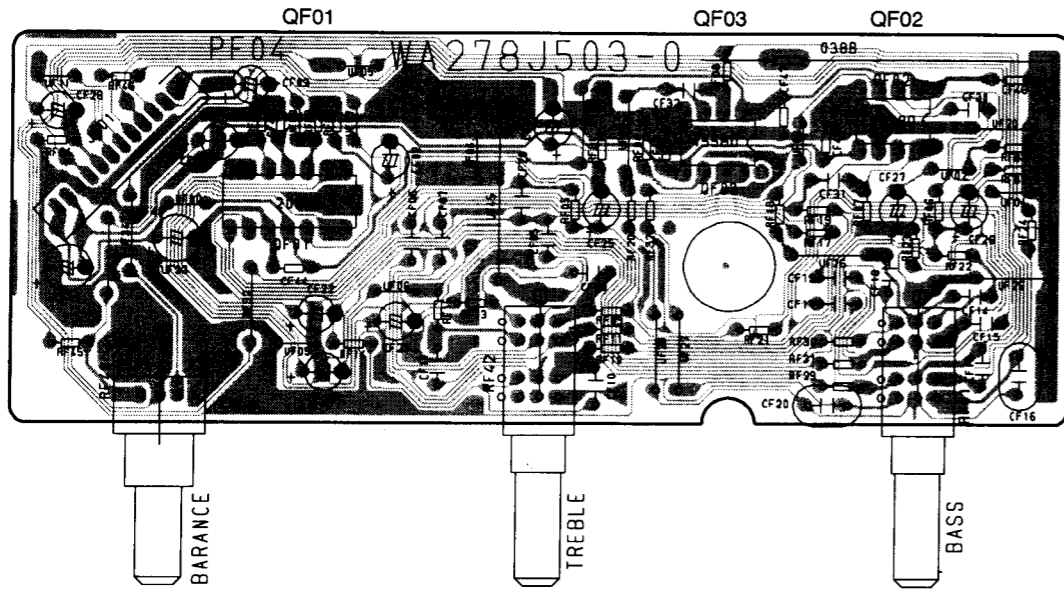
P104 Tuner P.C. Board



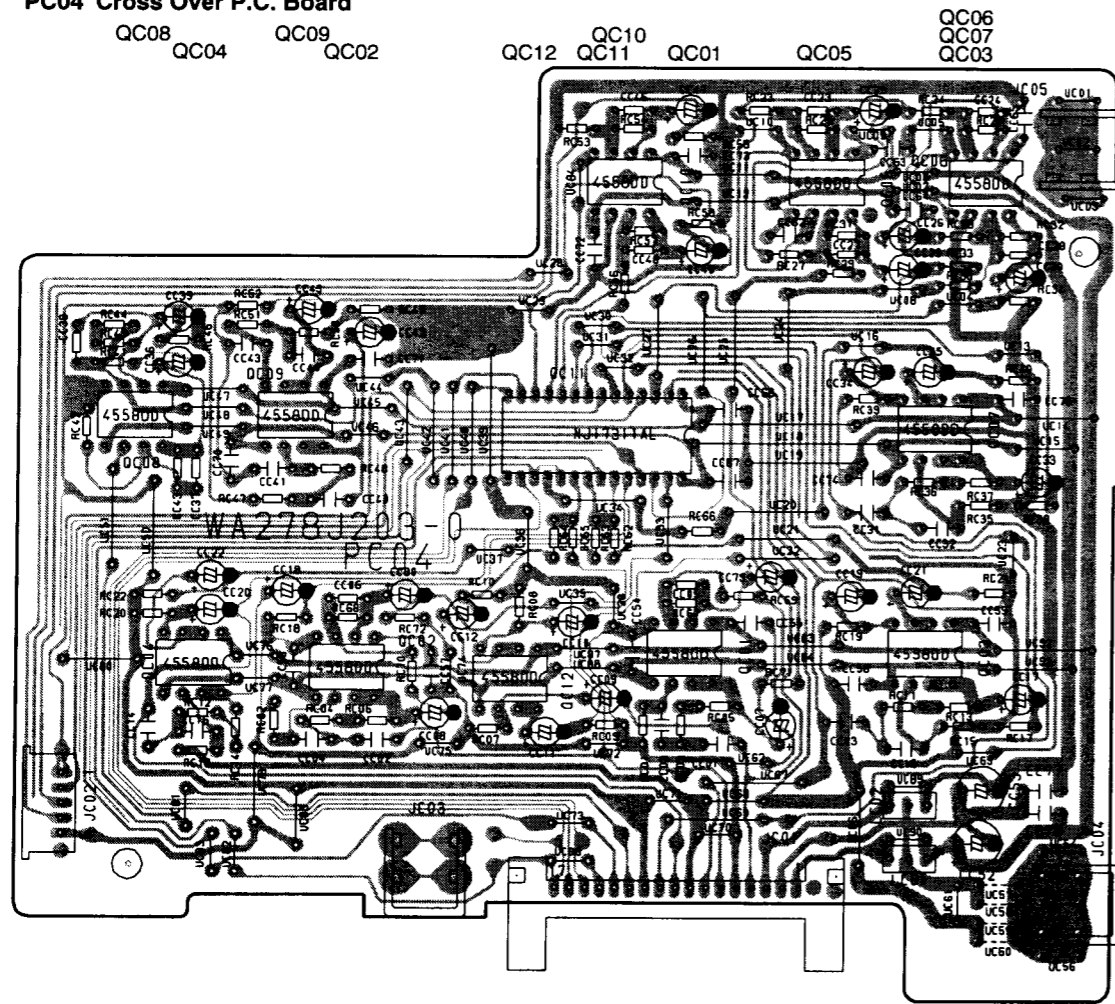
PY04 Connect P.C. Board



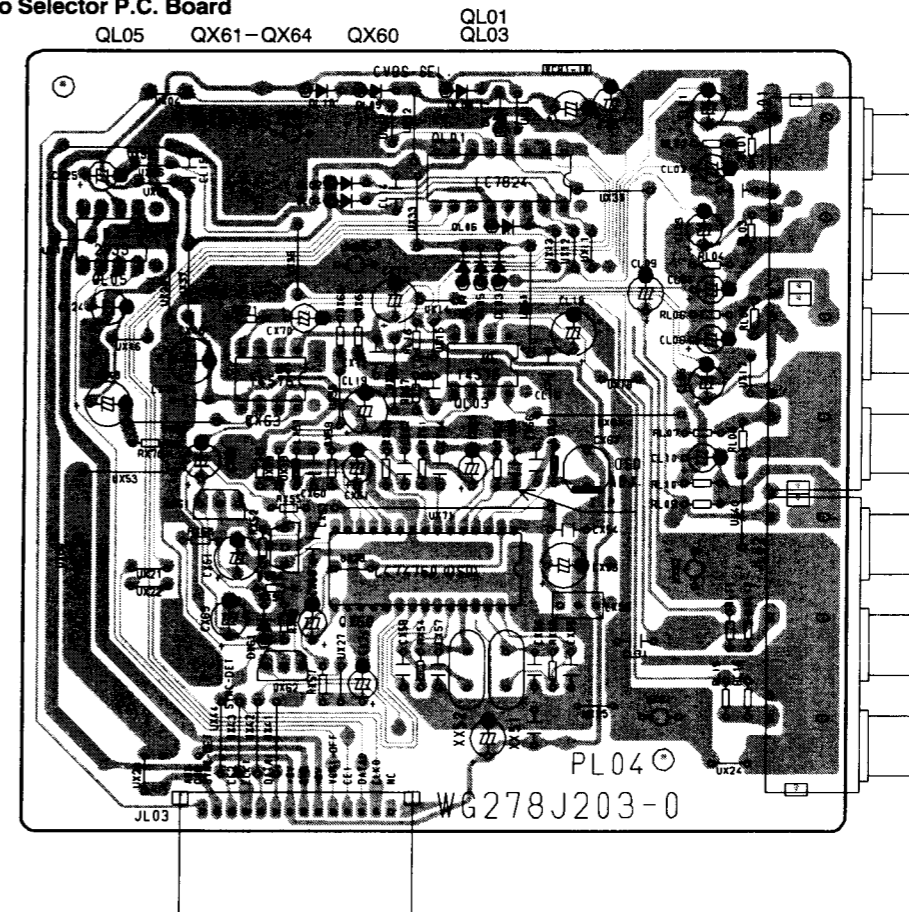
PF04 Tone P.C. Board



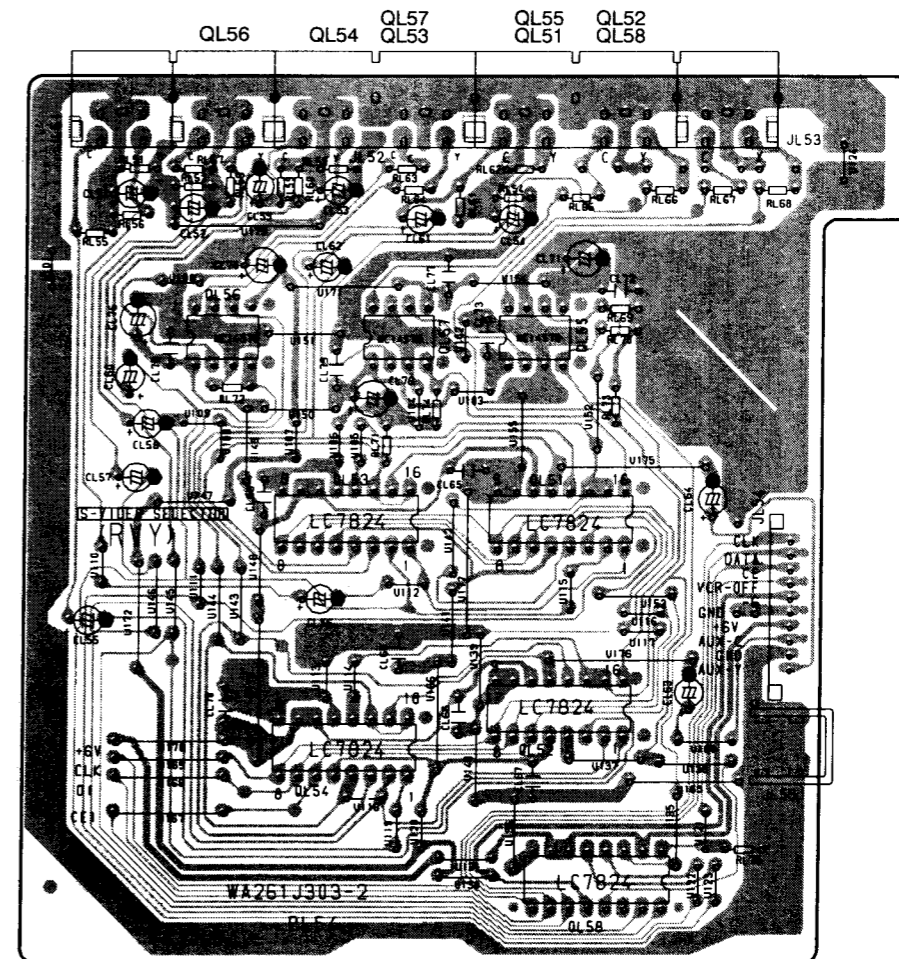
PC04 Cross Over P.C. Board



PL04 Video Selector P.C. Board

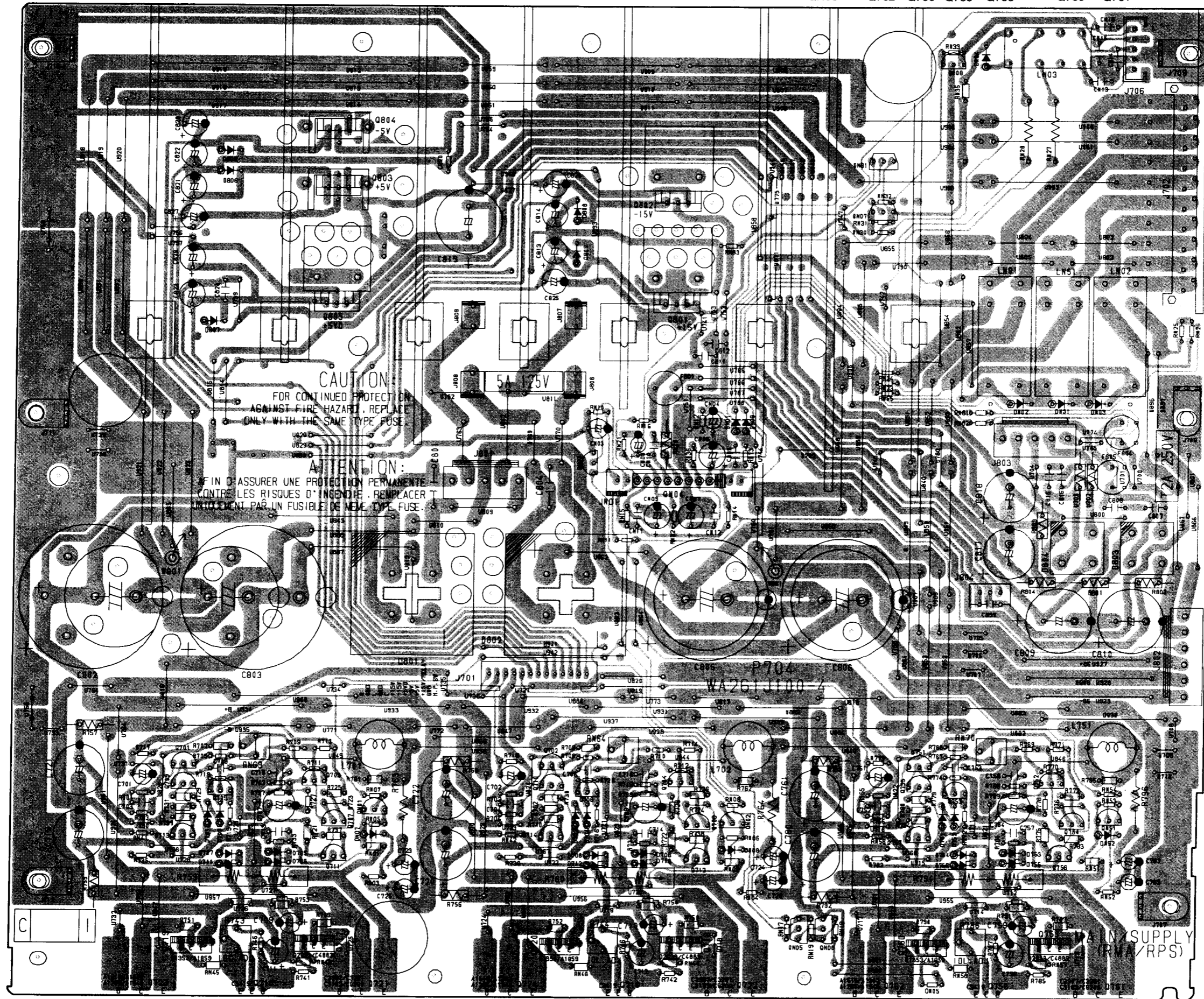


PL54 S-Video P.C. Board



P704-Main Amp P.C.Board

- | | | | | | |
|------|-----------|------|------|------|------|
| Q701 | Q804 | Q702 | Q704 | Q751 | Q752 |
| Q709 | Q803 Q707 | Q710 | Q708 | Q755 | Q754 |
| Q713 | Q805 Q711 | Q714 | Q712 | Q757 | Q756 |
| Q719 | Q703 Q717 | Q720 | Q718 | Q760 | Q759 |
| Q723 | Q705 | Q724 | Q716 | Q762 | Q758 |
| | Q715 | | Q802 | Q753 | |
| | | | Q801 | Q754 | |
| | | | Q712 | Q755 | |
| | | | Q718 | Q756 | |
| | | | Q722 | Q757 | |
| | | | Q722 | Q758 | |
| | | | Q722 | Q759 | |
| | | | Q722 | Q761 | |



PE04 Ele. Vol P.C. Board

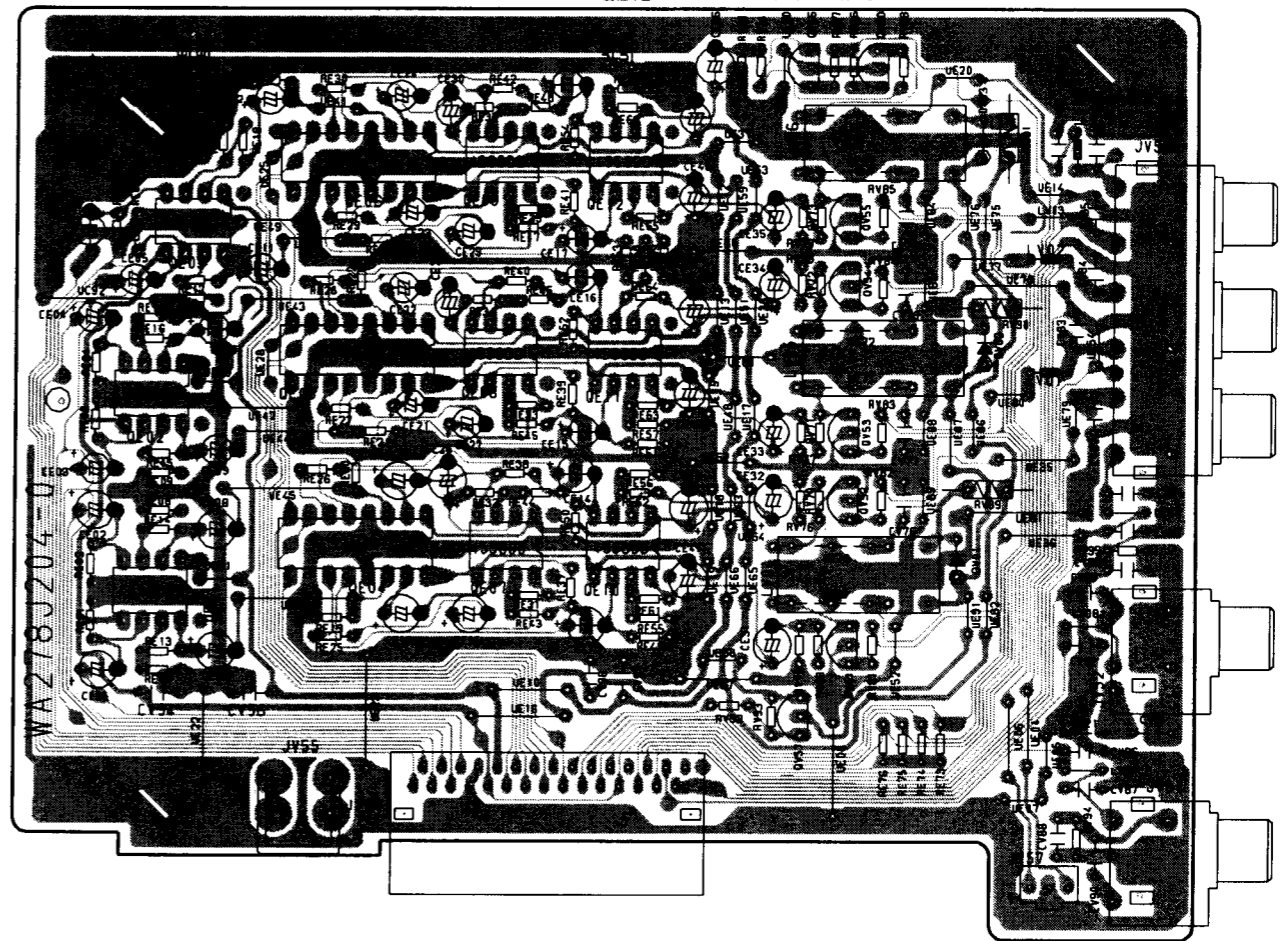
QE01-QE03

QE04-QE06

QE09
QE08
QE07

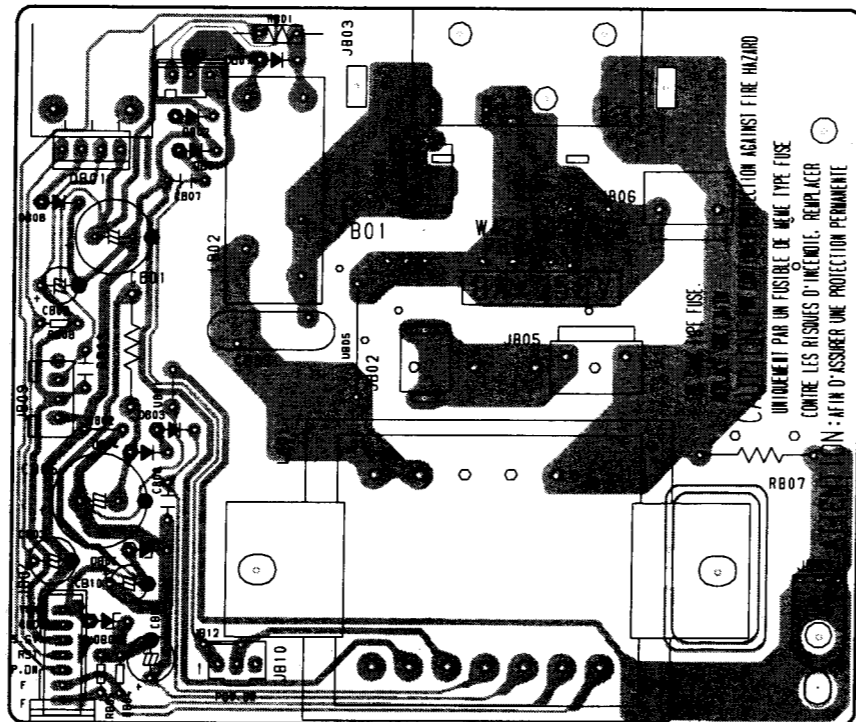
QE10
QE11
QE12

QV60
QV51-QV57



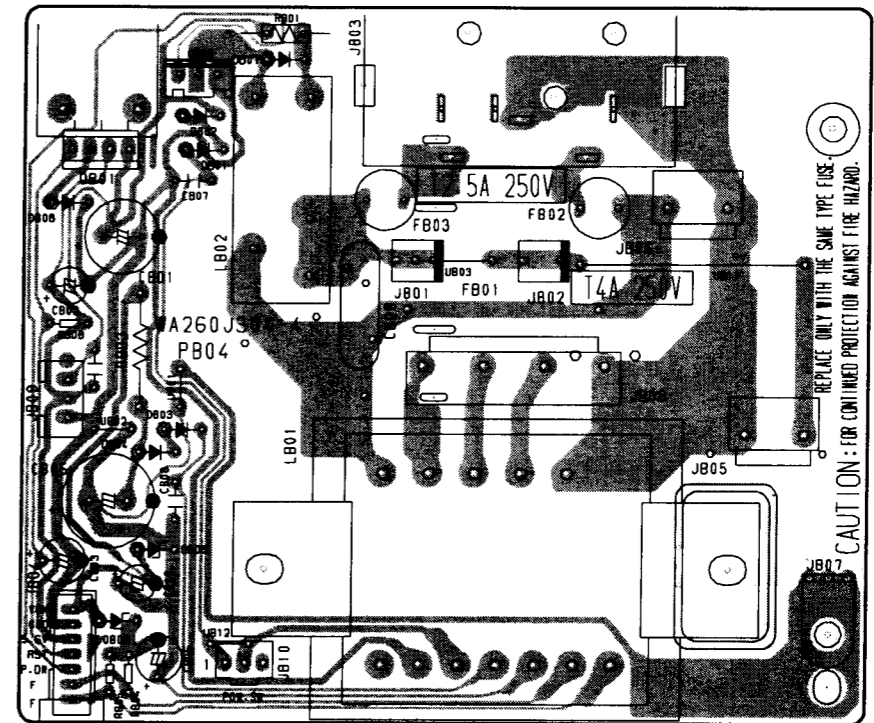
PB04 Back Up P.C. Board
(U version)

QB01 QB02

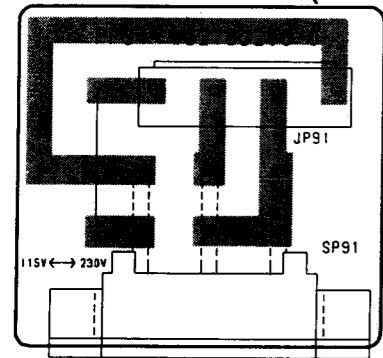


PB04 Back Up P.C. Board
(K, KS, KK version)

QB01 QB02

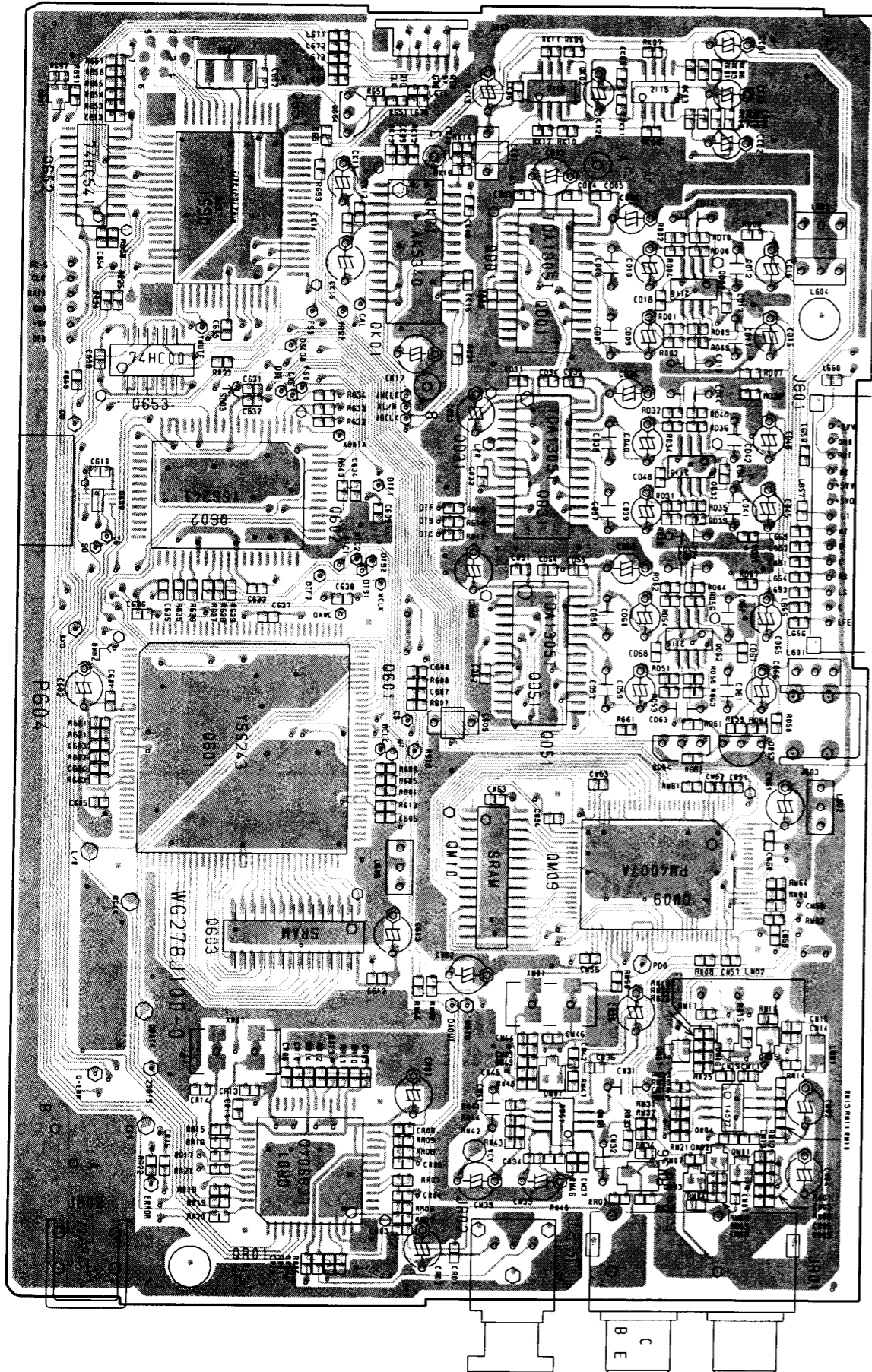


PP94 Vol-Sel P.C. Board (K version only)



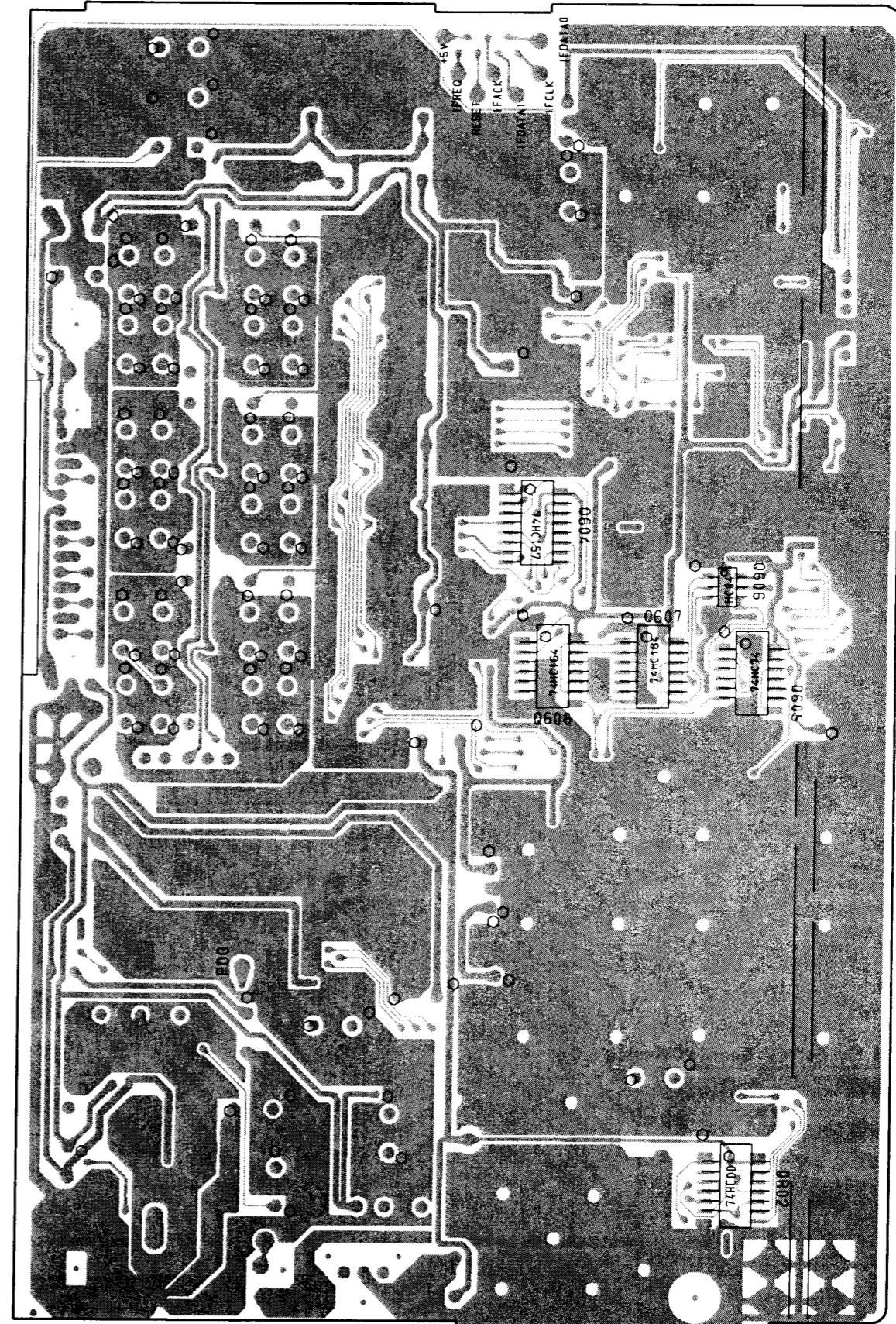
P604 DOLBY DIGITAL DSP P.C. Board (Component Side)

Q691	Q651	QK02	QD02	QD53
Q652	Q602	QD01	QD32	QM06
Q609	Q653	Q601	QD52	QM05
		QR01	QD54	QM02
		Q654	QD51	QM03
		QK01	QM08	QM04
		QM10	QM07	QM01



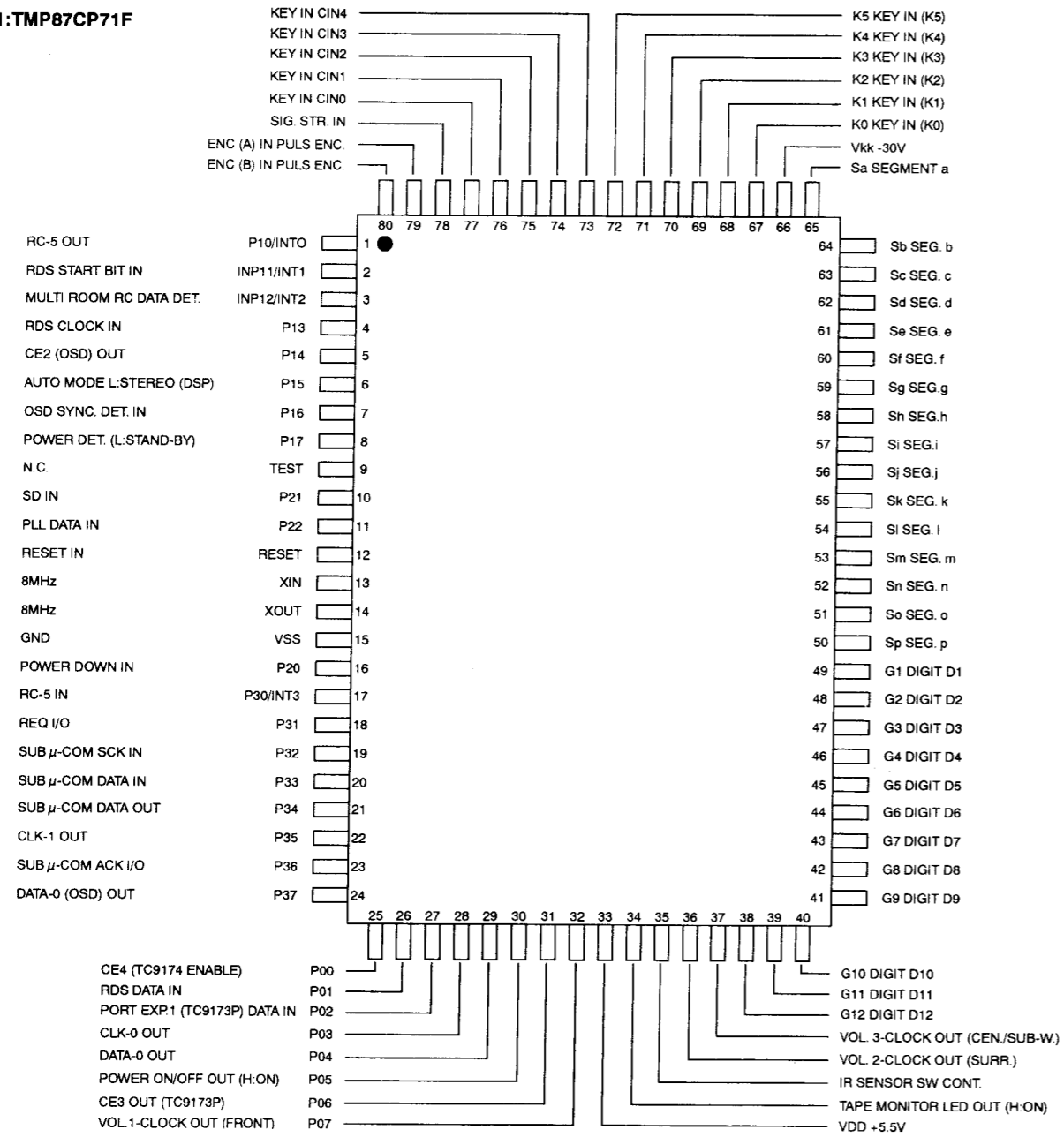
P604 DOLBY DIGITAL DSP P.C. Board (Soldering Side)

Q604	Q606
Q608	Q605
	QR02

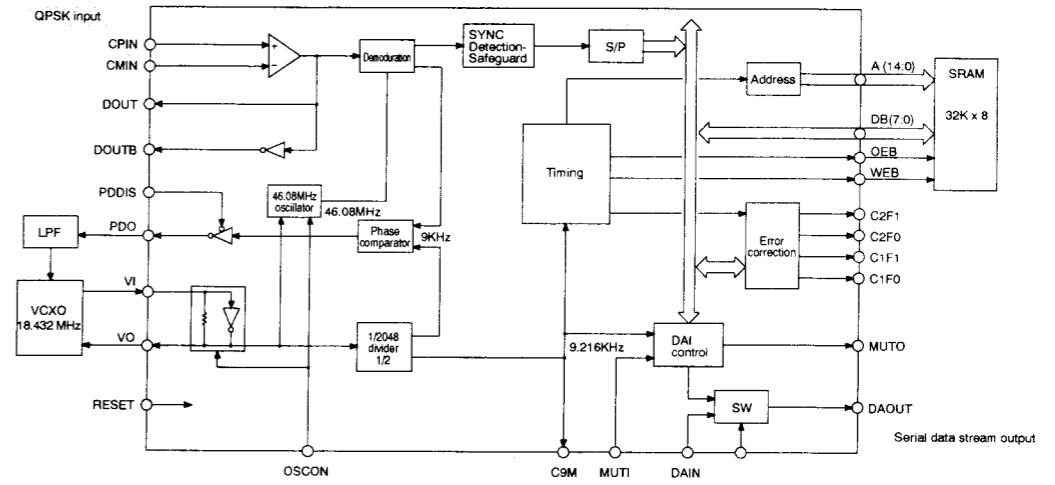


5. IC DATA

QU01:TMP87CP71F



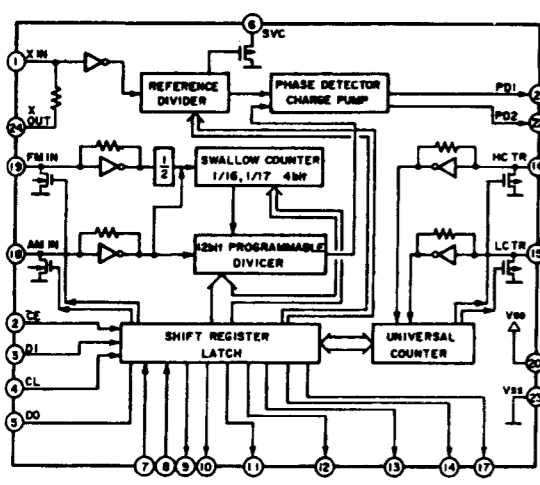
QM09:PM4007A



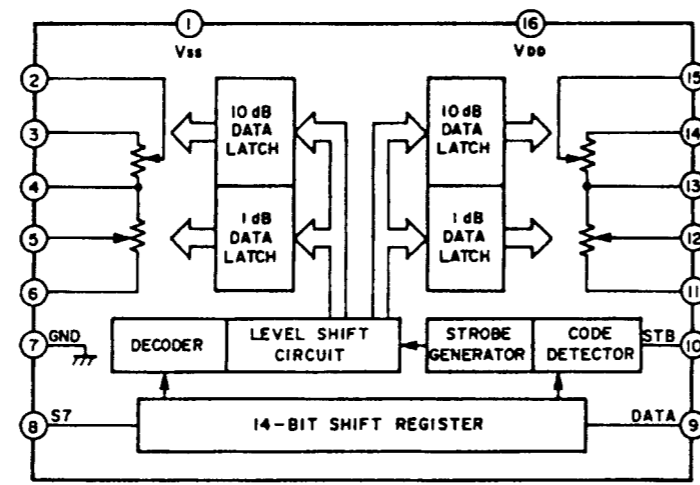
No.	Name	I/O	Function
1	GND	-	GND
2	VDD	-	+5V
3	RESET	I	System Reset At "L" reset
4	OSCON	I	Oscillator control At "H" during normal operation At "L" during standby
5	DATA	I	TEST
6	MCK	I	TEST
7	MLTB	I	TEST
8	IDST	O	TEST
9	IDCK	O	TEST
10	IDO	O	TEST
11	TM0	I	TEST
12	ECCK	O	TEST
13	DEN	O	TEST
14	DRY	O	TEST
15	MSYC	O	TEST
16	TM1	I	TEST
17	A0	O	RAM A0
18	A1	O	RAM A1
19	A2	O	RAM A2
20	A3	O	RAM A3
21	A4	O	RAM A4
22	A5	O	RAM A5
23	TM2	I	TEST
24	TM3	I	TEST
25	XOUT	O	TEST
26	XIN	I	TEST
27	XEXT	I	TEST
28	GND	-	GND
29	VDD	-	+5V
30	A6	O	RAM A6
31	A7	O	RAM A7
32	GND	-	GND
33	VDD	-	+5V
34	A12	O	RAM A12
35	A14	O	RAM A14
36	WEB	O	RAM WEB
37	A13	O	RAM A13
38	A8	O	RAM A8
39	A9	O	RAM A9
40	GND	-	GND
41	A11	O	RAM A11
42	OEB	O	RAM OE
43	A10	O	RAM A10
44	DB7	B	RAM D7
45	DB6	B	RAM D6
46	DB5	B	RAM D5
47	DB4	B	RAM D4
48	DB3	B	RAM D3
49	DB2	B	RAM D2
50	DB1	B	RAM D1

No.	Name	I/O	Function
51	DB0	B	RAM D0
52	VDD	-	+5V
53	GND	-	GND
54	TI1	I	TEST
55	VIN	I	VCXO input
56	VOU	O	VCXO output
57	TI2	I	TEST
58	TI3	I	TEST
59	TLDB	I	TEST
60	TCK	I	TEST
61	TRP	O	TEST
62	TDO	O	TEST
63	PDO	O	Phase comparator output (3-state)
64	TI4	I	TEST
65	PDDIS	I	Control input for PDO out At "L" Output ON
66	MUTO	O	Muting output. Mutes at "H". Sets to "H" when MUTI = H or the AC-3 period cannot be received.
67	TI5	I	TEST
68	VLDY	O	TEST
69	DASYO	O	TEST
70	DAOUT	O	Digital OUT (serial data stream output)
71	DAIN	I	Digital external input: Sets to DAOUT when DASEL is at "H"
72	DASEL	I	Selects digital OUT
73	TI6	I	TEST
74	C2F1	O	N.C.
75	C2F0	O	N.C.
76	C1F1	O	N.C.
77	C1F0	O	Displays C1 correction error status. Outputs error count at C1.
78	MUTI	I	Muting input. Mutes at "H".
79	VDD	-	+5V
80	GND	-	GND
81	AVDD	-	+5V
82	CPIN	I	Analog converter inverted input
83	CMIN	I	Analog converter inverted input
84	AGND	-	GND
85	TM4	I	TEST
86	VDD	-	+5V
87	DIN	I	TEST
88	DOUT	O	Analog converter inverted output
89	DOUTB	O	Analog converter inverted reverse output
90	C9M	O	N.C.
91	GND	-	GND
92	WINGT	O	TEST
93	SYST0	O	TEST
94	SYST1	O	TEST
95	ADST0	O	TEST
96	ADST1	O	TEST
97	TM5	I	TEST
98	BUNRI	I	TEST
99	AGND	-	GND
100	AVDD	-	+5V

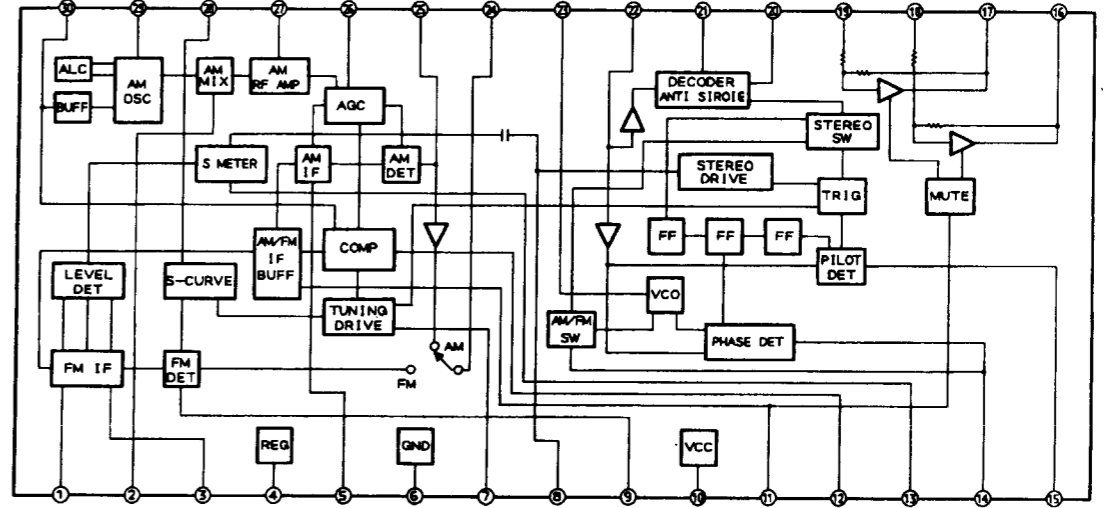
Q501:LC7218



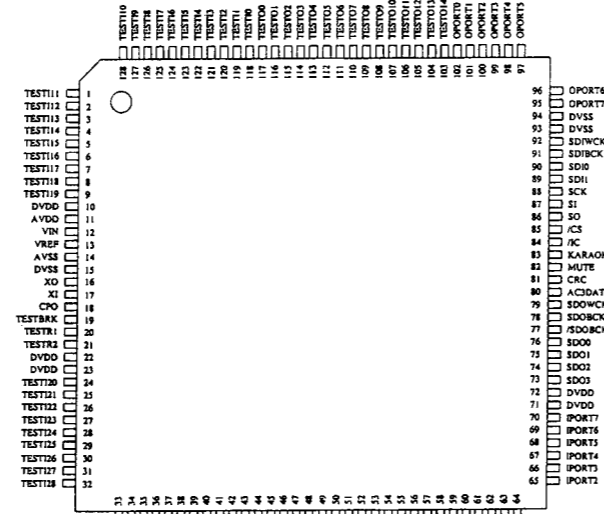
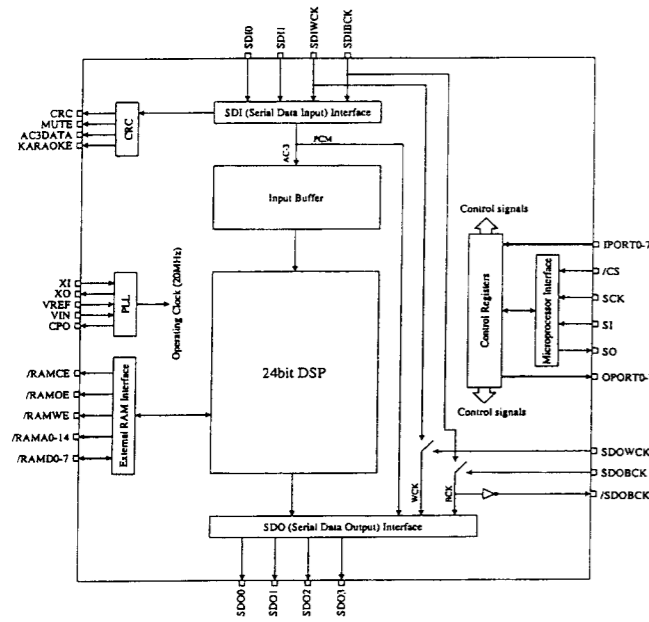
QG04 ~ 07, QG57:TC9213P



Q201:LA1836



Q601:YSS243



No.	Name	I/O	Function
1	TEST11	I	N.C.
2	TEST12	I	N.C.
3	TEST13	I	N.C.
4	TEST14	I	N.C.
5	TEST15	I	N.C.
6	TEST16	I	N.C.
7	TEST17	I	N.C.
8	TEST18	I	N.C.
9	TEST19	I	N.C.
10	DVDD	-	+5VD
11	AVDD	-	+5VD
12	VIN	AI	PLL input
13	VREF	AI	PLL input
14	AVSS	-	GND
15	DVSS	-	GND
16	XO	O	N.C.
17	XI	I	External clock input
18	CPO	AO	PLL output
19	TESTBRK	I	N.C.
20	TESTR1	I	N.C.
21	TESTR2	I	N.C.
22	DVDD	-	+5VD
23	DVDD	-	+5VD
24	TEST20	I	N.C.
25	TEST21	I	N.C.
26	TEST22	I	N.C.
27	TEST23	I	N.C.
28	TEST24	I	N.C.
29	TEST25	I	N.C.
30	TEST26	I	N.C.
31	TEST27	I	N.C.
32	TEST28	I	N.C.
33	TEST29	I	N.C.
34	TEST30	I	N.C.
35	/RAMWE	O	SRAM /WE
36	RAMA13	O	SRAM A13
37	RAMA8	O	SRAM A8
38	RAMA9	O	SRAM A9
39	RAMA11	O	SRAM A11
40	/RAMOE	O	SRAM /OE
41	RAMA10	O	SRAM A10
42	/RAMCE	O	SRAM /CE
43	RAMD7	I/O	SRAM D7
44	RAMD6	I/O	SRAM D6
45	RAMD5	I/O	SRAM D5
46	RAMD4	I/O	SRAM D4
47	RAMD3	I/O	SRAM D3
48	DVSS	-	GND
49	DVSS	-	GND
50	RAMD2	I/O	SRAM D2
51	RAMD1	I/O	SRAM D1
52	RAMD0	I/O	SRAM D0
53	RAMA0	O	SRAM A0
54	RAMA1	O	SRAM A1
55	RAMA2	O	SRAM A2
56	RAMA3	O	SRAM A3
57	RAMA4	O	SRAM A4
58	RAMA5	O	SRAM A5
59	RAMA6	O	SRAM A6
60	RAMA7	O	SRAM A7
61	RAMA12	O	SRAM A12
62	RAMA14	O	SRAM A14
63	IPORT0	I	N.C.
64	IPORT1	I	N.C.

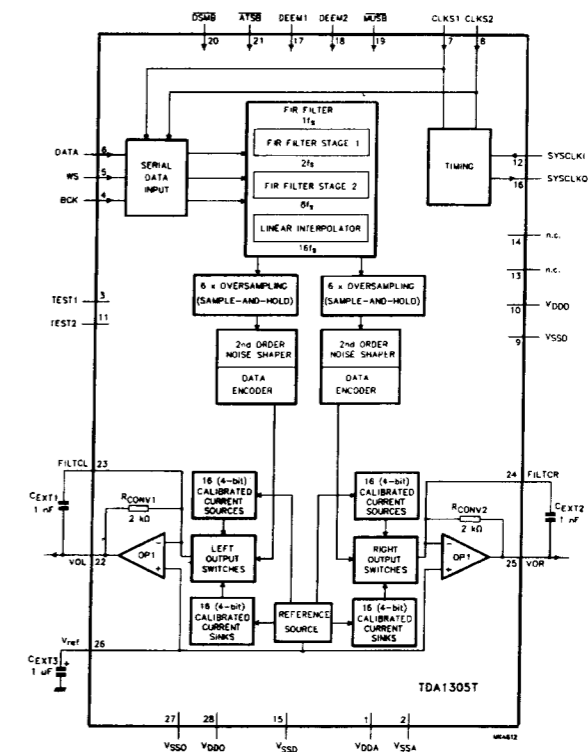
No.	Name	I/O	Function
65	IPORT2	I	N.C.
66	IPORT3	I	N.C.
67	IPORT4	I	N.C.
68	IPORT5	I	N.C.
69	IPORT6	I	N.C.
70	IPORT7	I	N.C.
71	DVDD	-	+5VD
72	DVDD	-	+5VD
73	SDO3	O	PCM MIX0, MIX1 output
74	SDO2	O	PCM C, LFE output
75	SDO1	O	PCM LS, RS output
76	SDO0	O	PCM L, R output
77	SDOBACK	O	N.C.
78	SDOBACK	I	SDO bit clock input
79	SDOWCK	I	SDO word clock input
80	AC3DATA	O	N.C.
81	CRC	O	N.C.
82	MUTE	O	Sets to 1 if error data is detected when auto muting function triggered
83	KARAOKE	O	N.C.
84	/IC	I	Initial clear
85	/CS	I	m-com interface chip select input
86	SO	O	m-com interface data output
87	SI	I	m-com interface data input
88	SCK	I	m-com interface clock input
89	SDI1	I	N.C.
90	SDI0	I	AC-3 bit stream (or PCM) data input
91	SDIBCK	I	SDI bit clock input
92	SDIWCK	I	SDI word clock input
93	DVSS	-	GND
94	DVSS	-	GND
95	OPORT7	O	N.C.
96	OPORT6	O	N.C.
97	OPORT5	O	N.C.
98	OPORT4	O	N.C.
99	OPORT3	O	N.C.
100	OPORT2	O	N.C.
101	OPORT1	O	N.C.
102	OPORT0	O	N.C.
103	TEST14	O	N.C.
104	TEST13	O	N.C.
105	TEST12	O	N.C.
106	TEST11	O	N.C.
107	TEST10	O	N.C.
108	TEST09	O	N.C.
109	TEST08	O	N.C.
110	TEST07	O	N.C.
111	TEST06	O	N.C.
112	TEST05	O	N.C.
113	TEST04	O	N.C.
114	TEST03	O	N.C.
115	TEST02	O	N.C.
116	TEST01	O	N.C.
117	TEST00	O	N.C.
118	TEST10	I	N.C.
119	TEST11	I	N.C.
120	TEST12	I	N.C.
121	TEST13	I	N.C.
122	TEST14	I	N.C.
123	TEST15	I	N.C.
124	TEST16	I	N.C.
125	TEST17	I	N.C.
126	TEST18	I	N.C.
127	TEST19	I	N.C.
128	TEST110	I	N.C.

Q651:SUB CPU (AC-3 DSP) TMP87CH40F

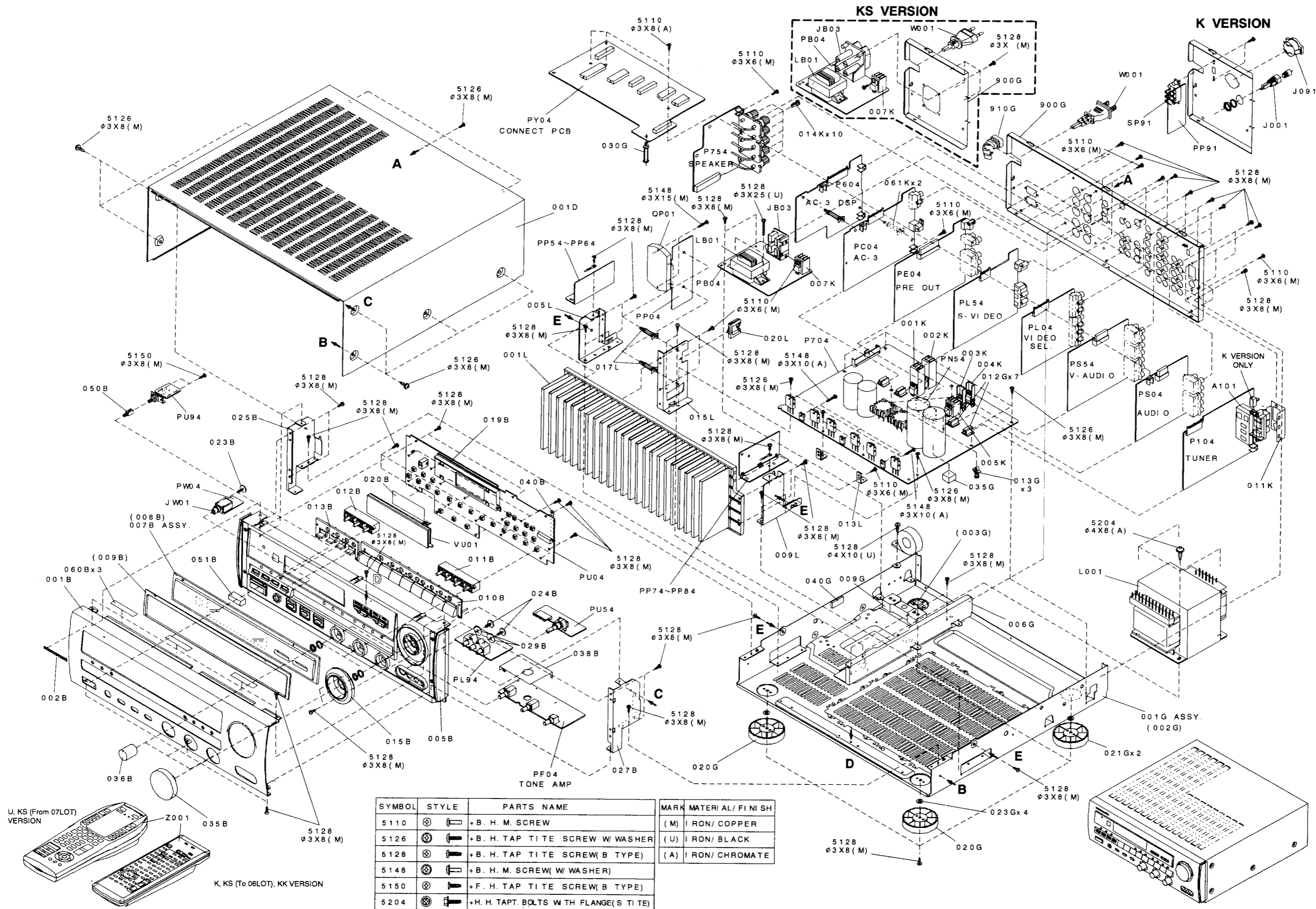
PORT No.	PORT NAME	I/O	SIGNAL NAME	FUNCTION	NOTES
1	P76	O	CAL	RESET&CALIBRATE FOR ADC H:RESET&CAL L:NORMAL	
2	P03	O	RST0	RESET OUT FOR DA1&DEMOMODULATOR L:RESET,H:NORMAL	
3	P03	O	CS	SPI CHIP SELECT FOR YSS243	
4	P01	O	CRS	SPI CPU I/F RESET FOR YSS241	
5	P02	O	FS0	Fs SET FOR YSS241	
6	P03	O	FS1	Fs SET FOR YSS241	
7	P04	O	MUTE-S	DAC MUTE CONT. OUT L:MUTE H:NORMAL	
8	P05	O	EMP1	DAC EMRCONT.1	
9	P06	O	EMP2	DAC EMRCONT.2	
10	P07	O	YRST	RESET OUTPUT FOR YSS241&243L:RESET H:NORMAL	
11	P10/INT0			N.C.	
12	P11/INT1			N.C.	
13	P12/INT2	I	(DEBUG)	FIXED+5V	
14	P13/DVO			N.C.	
15	P14/PPG			N.C.	
16	P15/TC2			N.C.	
17	P16			N.C.	
18	P17			N.C.	
19	P20/INT5	I/O	IFREQ	REQUEST SIGNAL FOR MAIN CPU I/F	
20	TEST			GND	
21	P21/XTIN			N.C.	
22	P22/XTO			N.C.	
23	RESET	I	RST1	RESET INPUT FROM MAIN CPU L:RESET	
24	XIN	O	XIN	FOR CPU OSC	
25	XOUT	O	XOUT	FOR CPU OSC	
26	VSS			GND	
27	P30			N.C.	
28	P31			N.C.	
29	P32			N.C.	
30	P33			N.C.	
31	P34			N.C.	
32	P35			N.C.	
33	P36			N.C.	
34	P37			N.C.	
35	P40	O	CE0	CHIP ENABLE OUT FOR I/F TO DA1(LC8904Q)	
36	P41	I/O	IFACK	ACKNOWLEDGE SIGNAL FOR MAIN CPU I/F	
37	P42/SCK1	O	CL/SCK	SPI CLOCK OUT TO DA1(LC8904Q)&YSS241,243	
38	P43/SI1	I	DO/SO	SPI DATA IN FROM DA1&DSP(YSS243)	
39	P44/SO1	O	DI/SI	SPI DATA OUT TO DA1&DSP(YSS241&243)	
40	P45/SC2	O	IFCLK	I/F CLOCK OUT TO MAIN CPU	
41	P46/SI2	I	IFDATA1	I/F DATA IN FROM MAIN CPU	
42	P47/SO2	O	IFDATA0	I/F DATA OUT TO MAIN CPU	
43	P50/INT3	I	C1F0	DEMOMODULATOR ERROR INPUT(FOR DEBUG USE ONLY)	
44	P51/INT4	I	ERROR	DA1 ERROR INPUT L:Error H:OK	
45	P52/PDO			N.C.	
46	P53			N.C.	
47	P54			N.C.	
48	VASS			GND	
49	VAREF			GND	
50	P60/AIN0	O	DEBO	CHIP ENABLE OUT FOR DEBUG USE ONLY	
51	P61/AIN1			N.C.	
52	P62/AIN2	I	YMUTE	YSS241 ERROR MUTE INPUT(H:MUEON,L:MUTEOFF)	
53	P63/AIN3			N.C.	
54	P64/AIN4			N.C.	
55	P65/AIN5			N.C.	
56	P66/AIN6			N.C.	
57	P67/AIN7			N.C.	
58	VDD			+5V	
59	P70	O	OSCON	PM4007A OSC CONTROL H:ONL:STOP	
60	P71	O	DSEL	DATA SELECT(YSS243or241)H:241L:243	
61	P72	O	LFEATT	LFEATT CONT.H:ON:L:100B OFF	
62	P73	O	A/D	ADC/DAI SELECT H:DAI L:ADC	
63	P74	O	RF/OTH	RF/OTHER SELECT H:RF L: THER	
64	P75	O	MUTE-1	MUTE CONTROLLED BY SUB CPU H:NORMAL L:MUTE	

QD01, QD31, QD51:TDA1305T

SYMBOL	PIN	DESCRIPTION
VDDA	1	analog supply voltage
VSSA	2	analog ground
TEST1	3	test input; pin should be connected to ground (internal pull-down resistor)
BCK	4	bit clock input
WS	5	word select input
DATA	6	data input
CLKS1	7	clock selection 1 input
CLKS2	8	clock selection 2 input
VSSD	9	digital ground
VDDO	10	digital supply voltage
TEST2	11	test input; pin should be connected to ground (internal pull-down resistor)
SYSCLKI	12	system clock input
n.c.	13	not connected (this pin should be left open-circuit)
n.c.	14	not connected (this pin should be left open-circuit)
VSSD	15	digital ground
SYSCLKO	16	system clock output
DEEM1	17	de-emphasis or/offset; foem 32 kHz, 44 kHz and 48 kHz
DEEM2	18	de-emphasis or/offset; foem 32 kHz, 44 kHz and 48 kHz
MUSB	19	mute input (active LOW)
DSMB	20	double-speed mode input (active LOW)
ATSB	21	12 dB attenuation input (active LOW)
VOL	22	left channel output
FILTCL	23	capacitor for left channel 1st order filter function should be connected between pins 22 and 23
FILTCR	24	capacitor for right channel 1st order filter function should be connected between pins 25 and 24
VOR	25	right channel output
Vref	26	internal reference voltage for output channels (0.5VDD)
VSSO	27	operational amplifier ground
VDDO	28	operational amplifier supply voltage



6. EXPLODED VIEW AND PARTS LIST



SYMBOL	STYLE	PARTS NAME	MARK	MATERI AL/ FINI SH
5110	(M)	+B. H. M. SCREW	(M)	IRON/ COPPER
5126	(U)	+B. H. TAP TITE SCREW W/ WASHER	(U)	IRON/ BLACK
5128	(A)	+B. H. TAP TITE SCREW(B TYPE)	(A)	IRON/ CHROMATE
5148	(M)	+B. H. M. SCREW(W/ WASHER)		
5150	(M)	+F. H. TAP TITE SCREW(B TYPE)		
5204	(M)	+H. H. TAPT. BOLTS W TH FLANGE(S TI TE)		

(VERS.:VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, *:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
001B	BLACK		FRONT PANEL,ALMI (BLACK)	278J248010
001B	GOLD		FRONT PANEL,ALMI (GOLD)	278J248110
002B	BLACK		BADGE,MARANTZ (BLACK)	185J251010
002B	GOLD		BADGE,MARANTZ (GOLD)	185J251110
005B	BLACK		CHASSIS,FRONT MOLD (BL)	261J105020
005B	GOLD		CHASSIS,FRONT MOLD (GL)	261J105120
007B	BLACK	4822 450 10172	WINDOW,ASSY (BLACK)	261J158550
007B	GOLD		WINDOW,ASSY (GOLD)	261J158560
010B	BLACK		BUTTON,FUNCTION HINGE (BL)	261J270070
010B	GOLD		BUTTON,FUNCTION HINGE (GL)	261J270170
011B	BLACK	4822 410 10639	BUTTON,MEMO HINGE (BL)	261J270020
011B	BLACK		BUTTON,MEMO HINGE (GL)	261J270120
012B	BLACK	4822 410 10641	BUTTON,OSD HINGE (BL)	261J270030
012B	GOLD		BUTTON,OSD HINGE (GL)	261J270130
013B	BLACK	4822 410 10642	BUTTON,MODE HINGE (BL)	261J270040
013B	GOLD		BUTTON,MODE HINGE (GO)	261J270140
015B	BLACK	4822 454 13137	ESCUTCHEON,VOL. (BL)	261J063010
015B	GOLD		ESCUTCHEON,VOL. (GOLD)	261J063110
023B			SCREW,PHONE PCB+MOLD CHASSIS	183J010010
024B			SCREW,RCA PCB+MOLD CHASSIS	183J010010
025B			BRACKET,FRONT LEFT SIDE	261J160010
035B	BLACK	4822 410 10643	KNOB,MAIN VOL (BLACK)	261J154010
035B	GOLD		KNOB,MANI VOL (GOLD)	261J154110
036B	BLACK	4822 413 41589	KNOB,TONE VOL (BLACK)	090J154010
036B	GOLD	4822 413 41821	KNOB,TONE VOL (GOLD)	090J154110
050B		4822 404 21012	JOINT,POWER BUTTON	025J125010
051B	BLACK	4822 410 62744	BUTTON,POWER SW (BL)	285K270010
051B	GOLD	4822 462 72053	BUTTON,POWER SW(GL)	285K270110
001D	BLACK		LID,TOP COVER (BLACK)	264J257110
001D	GOLD		LID,TOP COVER (GOLD)	264J257120
020G		4822 462 42045	LEG,GOLD HOT STAMP,	183J057010
021G		4822 462 42048	LEG,GOLD HOT STAMP,REAR	183J057110
▲ F001	K	4822 253 30387	FUSE,4A 250V BS LISTED	FS10400850
▲ JC01	K	4822 256 30233	JACK,FUSE HOLDER	YJ08000290
J091	K	4822 272 10382	VOLT.SELECT.,	BY05060090
▲ L001	K		POWER TRANSF.,4 VOLTAGE	TS60513070
▲ L001	KS	4822 146 10583	POWER TRANSF.,230V	TS60513060
▲ L001	KK		POWER TRANSF.,220V 60HZ	TS60513080
▲ L001	U		POWER TRANSF.,120V	TS60513050
L002	KS,U	4822 529 10357	FERRITE CORE,ESD-R-38B	FC50380010
▲ W001	K,KS		A.C POWER CORD,N (MAYOR)	YC01800790
▲ W001	KK		A.C POWER CORD,7A 250V FOR KOREA	YC02000780
▲ W001	U		A.C POWER CORD,UL/CSA (SPT-2) MAYOR	YC01800780

(VERS.:VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, *:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
001T	K,KK,		PACKING USER MANUAL,SR880K E/C 2LOUG	278J851350
001T	KS,U,		USER MANUAL,SR880KS WITH RC2000	278J851360
001T	UBL		USER MANUAL,SR880U E/F 2LOUG	278J851250
Z001	K,KK		UNIT KIT,REMOTE TX RC880SR	ZK278J0010
Z001	KS,U		UNIT KIT,REMOTE TX RC2000	ZK206W0014
Z003	K,KK, KS		EXT.ANTENNA,FM 931222R (MAYOR)	ZA02800020
Z003	U		EXT.ANTENNA,FM	ZA02000070
Z004			ANT COIL,LA-700HB LOOP	LA00055010
Z005	U		PLUG,ANT ADAPTOR	YP90000310
Z006	K		JACK,AC ADAPTER CCT5902-0701	YJ04001960

7. SERVICE PROGRAM

1. Tracking point memory

This service program can be use for measurement of the tuner circuit.

When the POWER ON, press the "PRESET UP" button while pressing the "MODE ▲" button for more 3 seconds. FLD shows "TRACKING". Frequencies to be memorized are as follows.

	VERSION	P1	P2	P3	P4
FM	U, K, KS, KK	90.0	98.0	106.0	87.5

	SCAN STEP	P5	P6	P7	P8	P9	P10	P11	P12~ P30
AM	10 KHz	600.0	1000.0	1400.0	520.0	←	←	←	←
	9 KHz	603.0	999.0	1404.0	531.0	←	←	←	←
	MW/LW	↑	↑	↑	171.0	207.0	270.0	152.0	531.0

2. FLD segment luminous

This service program can be luminous all segments by following step.

When the POWER ON, press the "FM/AM(TUNER)" button while pressing the "MODE ▲" button for more 3 seconds.

When finish the following procedure this service program should be stop.

Luminous procedure

1. All segments luminous 5 seconds.
2. At the grid "1G", segments luminous following procedure.

① KHz → ② MHz → ③ ATT → ④ LFE → ⑤ NIGHT → ⑥ MULTI → ⑦ COAX → ⑧ OPT →
⑨ RF → ⑩ TAPE1 → ⑪ COPY → ⑫ VCR1 → ⑬ SLEEP → ⑭ P-SCAN → ⑮ DISP

3. At the grid "2G" to "11G", each one segment luminous step by step.

4. At the grid "12G", segments luminous following procedure.

① VISUAL → ② SIGNAL BAR (LEFT SIDE) → ③ SIGNAL BAR (2nd LEFT) → ④ SIGNAL BAR (CENTER) →
⑤ SIGNAL BAR (2nd RIGHT) → ⑥ SIGNAL BAR (RIGHT SIDE) → ⑦ AC-3 → ⑧ PCM → ⑨  DIGITAL →
⑩ PRO.LOGIC → ⑪ 3·STEREO → ⑫ MOVIE → ⑬ MATRIX → ⑭ HALL → ⑮ THX CINEMA → ⑯ STEREO

3. All clear

This service program can be clear all memorized operations and functions.

When the POWER ON, press the "CD" button while pressing the "MODE ▲" button for more 3 second. FLD shows "CLEAR MEMO" and power will be OFF.

4. Volume reset

This service program can be reset "MASTER VOLUME LEVEL" and "CHANNEL OUTPUT LEVEL" to initial level.

(MASTER VOLUME : -61dB, CHANNEL LEVEL : 0dB)

When the POWER ON, transmit the reset code "163731" continually more than 3 seconds by remote control unit (RC500AV or other multi remote controller). FLD shows "VOL RST".

8. ELECTRICAL ADJUSTMENT

1. Main amp idling current adjustment

- 1) With the power OFF, set semi – fixed resistor R743 (Lch), R744 (Rch), R786 (Center ch) on the PC board (PV04) to the center position.
- 2) Connect a digital voltmeter, set for the DC range, between the emitter resistor [R759 (Lch), R760 (Rch), R794 (Center ch)] on the PC board (PV04).
- 3) After the above, adjust the idling current as follows:
Turn the power ON and adjust semi – fixed resistor R743 (Lch), R744 (Rch), R786 (Center ch) while observing the digital multimeter indication.
* The target value is 7.2 mV (20 mA).

[Reference]

When a set whose idling current has been adjusted is switched on with after 1 minute it reaches about 2.7 – 3.5 mV. After 10 minutes, it reaches a balanced state and stabilizes at 7.2 mV (target). Therefore, if the adjustment is made 30 second after the power is switched on, adjust to 1.3 – 1.8 mV. In the same way, if 1 minute have passed since the power was switched on, adjust to 2.7 – 3.5 mV. From 1 to 2 minutes, adjust to 3.9 – 4.2 mV. From 2 to 4 minutes, adjust to 4.8 – 6.4 mV. From 4 to 7 minutes, adjust to 5.7 – 7.3 mV. After more than 7 minutes since the power was switched on, adjust to the setting of 5.8 – 7.4 mV.

Here is a reference table for the adjustment values.

Time since power switched on	Idling current adjustment
30 second	1.3 – 1.8 mV
1 minute	2.7 – 3.5 mV
1 – 2 minutes	3.9 – 4.2 mV
2 – 4 minutes	4.8 – 6.4 mV
4 – 7 minutes	5.7 – 7.3 mV
More than 7 minutes	5.8 – 7.4 mV

2. Main amp DC offset adjustment

- 1) With the power OFF, connect a digital voltmeter, set for the DC range, to the speaker terminal.
- 2) After the above, adjust the idling current as follows:
Turn the power ON and adjust RN63 (Lch), RN64 (Rch), RN70 (Center ch) so that the output is ± 40 mV.

ALIGNMENT PROCEDURES

1. AM IF Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	999 KHz (K, KS, KK) 1000 KHz (USA)	Level 300 μ V/m (50dB/m) Mod. 400 Hz 30%	Tuning point	LA06	Output level (L or R) Maximum at TAPE-OUT

REMARK: For receiving antenna, the adapted one is available.

This adjustment is not necessary normally, because the coil LA06 is preset by the original supplier.

It is necessary when the incorrect usable sense and frequency response.

2. AM Tracking Adjustment

Step	**Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	603 KHz (K, KS, KK) 600 KHz (USA)	Level 300 - 400 μ V/m Mod. 400 Hz 30%	603 KHz (K, KS, KK) 600 KHz (USA)	LA01	Output level (L or R) Maximum at TAPE-OUT
2		1404 KHz (K, KS, KK) 1400 KHz (USA)	Level 300 - 400 μ V/m Mod. 400 Hz 30%	1404 KHz (K, KS, KK) 1400 KHz (USA)	CA01	Output level (L or R) Maximum at TAPE-OUT
3	Repeat step 1 and 2 until sensitivity be maximized.					

3. AM auto stop Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	999 KHz (K, KS, KK) 1000 KHz (USA)	500 μ V/m (54 dB/m)	999 KHz (K, KS, KK) 1000 KHz (USA)	RA11	"TUNED" indicate on FLD
2			1000 μ V/m (60 dB/m)	AUTO SCAN	Only Confirm	"TUNED" indicate on FLD

REMARK: This adjustment is related to the FM muting Level Adjustment. The FM muting Level re-adjustment is necessary after this adjustment.

4. FM MONO. Distortion Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 Ω)	98 MHz	500 μ V (54 dB) MONO 1 KHz / Dev.40KHz 53.3% (K,KS,KK) MONO 1KHz / Dev. 75KHz 100% (USA)	98 MHz (P2)	L201	Distortion level Minimum at TAPE-OUT

5. FM Muting Level Adjustment

Turn the variable resistor **R212** to no indication ("TUNED") point. And return that valuable resistor in opposite to the "TUNED" indicate point.

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 Ω)	98 MHz	10 μV (20 dB) MONO 1 KHz / Dev.40KHz 53.3% (K,KS,KK) MONO 1KHz / Dev. 75KHz 100% (USA)	98 MHz (P2)	R212	"TUNED" indicate on FLD
2			Over mentioned level +3 dB	AUTO SCAN	Only Confirm	"TUNED" indicate on FLD

REMARK: This adjustment is related to the AM auto stop Adjustment. This adjustment is necessary after AM auto stop adjustment.

6. FM STEREO Distortion Adjustment

Adjust the **L channel** with the RF signal modulated only **L channel** first and confirm the **R channel** with the RF signal modulated only **R channel**.

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 Ω)	98 MHz	500 μV (54 dB) L or R 1KHz / Dev. 40KHz 53.3% PILOT 19KHz / Dev. 6KHz 8% (K, KS, KK)	98 MHz (P2)	IF COIL in FRONT END	Distortion level Minimum at TAPE-OUT
2			L or R 1KHz / Dev. 67.5KHz 90% PILOT 19KHz / Dev. 6.75KHz 9% (USA)		R218	Distortion level Minimum at TAPE-OUT

REMARK: Adjustment with **R128** is not necessary when the distortion level is less than 0.5% with adjusting IF coil.

7. FM STEREO Separation Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 Ω)	98 MHz	same specification as FM STEREO distortion adjustment. Input only L channel .	98 MHz (P2)	R211	Output level Minimum at TAPE-OUT channel R
2		98 MHz	same specification as FM STEREO distortion adjustment. Input only R channel .	98 MHz (P2)	R211	Output level Similar as Rch at TAPE-OUT channel L

8. On Screen Display VCO Adjustment

Step	Input Signal Source and Connection	Measuring position	Measuring equipment	Input selector	Adjustment Point	Adjustment Value
1	Color bar or other standard video signal. Video signal generator output to LD video input.	IC QX60 26pin and GND.	DC voltmeter (Impedance > 10k Ω/V)	LD	CX67	2.5V ±0.1V

REMARK: Connect the TV monitor to the monitor output terminal of the product.

9. TECHNICAL DESCRIPTION

This product is a "Dolby Digital (AC-3)" decoder. By connecting this product with a Dolby digital compatible component such as a LD player with AC-3 RF output, DVD player or DBS tuner, it will be capable of 5.1 CH (Front L/R, Rear L/R, Center and Sub-woofer) play.

This product is composed approximately of 5 blocks including the AC-3 decoder block (P604), DAC & crossover block (PD04), power supply block (P804), volume control block (PV04) and front key input block (PU04).

Signal path

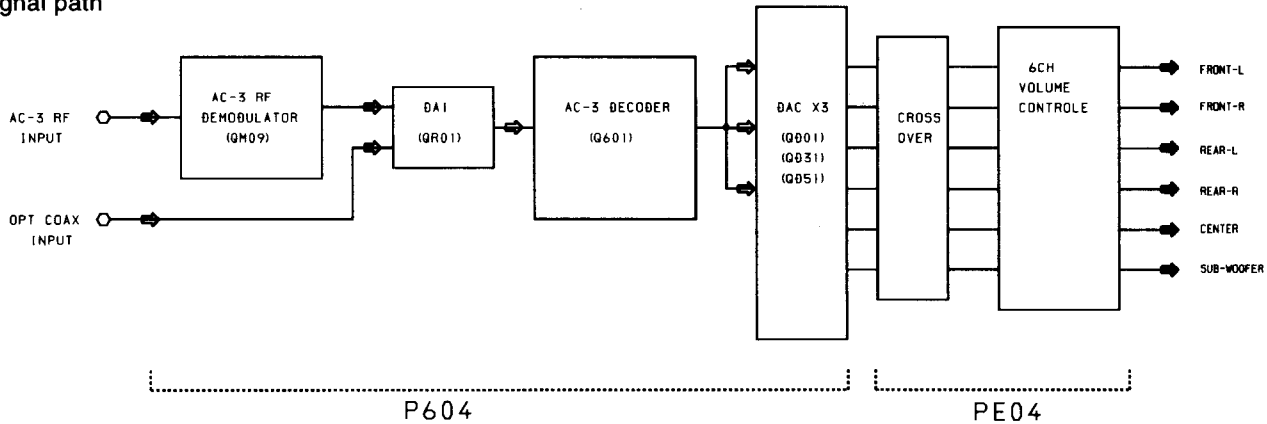


Figure 1

10. SIGNAL AND CIRCUIT DESCRIPTION

AC-3 RF

This signal is based on the Dolby Digital format for Laser Discs, and contains the AC-3 signal inserted in one of the analog audio channels of LD. See diagram below (Figure 2).

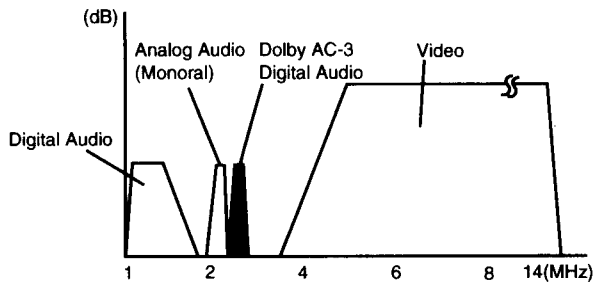


Figure 2

This signal is supplied from LD player with AC-3 RF output.

OPT/COAX (AC-3/PCM input)

This signal is based on an additional format for transmitting the AC-3 data through the conventional digital audio interface (SPDIF). This SPDIF contains the compressed data for AC-3, instead of PCM Audio data. Similarly to the case of ROM data, whether the data is audio or non-audio is identified according to the status in the signal. This signal can be output from a DVD player, etc.

AC-3 RF modulator

This circuit extracts the AC-3 data band from the RF signal output from a LD player using a BPF and converts the extracted data into the digital signal in the SPDIF format by means of QPSK modulation.

DAI (Digital Audio Interface) receiver

This circuit extracts various clock and data signals from the signal input in the SPDIF format.

AC-3 decoder DSP

This circuit generates the 6-channel data (Front L/R, Rear L/R, Center and LFE) based on the data output from the DAI, and outputs the 6-channel data to the DAC as 3 sets of 2-channel data.

Crossover

This circuit consists of 100Hz HPF for each channel, 100Hz LPF for sub-woofer channel, and mixing for sub-woofer output.

Depending on the speaker mode setting, combination of these circuit will be changed.

11. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTORS

R*** : 1) GD05xxx140, Carbon film fixed resistor, ±5% 1/4W
 R*** : 2) GD05xxx160, Carbon film fixed resistor, ±5% 1/6W

① — Resistance value

Examples ;

① Resistance value

0.1Ω ... 001	10Ω ... 100	1kΩ ... 102	100kΩ ... 104
0.5Ω ... 005	18Ω ... 180	2.7kΩ ... 272	680kΩ ... 684
1Ω ... 010	100Ω ... 101	10kΩ ... 103	1MΩ ... 105
6.8Ω ... 068	390Ω ... 391	22kΩ ... 223	4.7MΩ ... 475

Note : Please distinguish 1/4W from 1/6W by the shape of parts used actually.

CAPACITORS

C*** : CERAMIC CAP.

3) DD1xxx370, Ceramic capacitor
 Disc type
 Temp.coeff.P350 ~ N1000, 50V

② — Capacity value
 ③ — Tolerance

Examples ;

② Tolerance (Capacity deviation)

±0.25pF ... 0
±0.5pF ... 1
±5% ... 5

* Tolerance of COMMON PARTS handled here are as follows :

0.5pF ~ 5pF ... ±0.25pF
6pF ~ 10pF ... ±0.5pF
12pF ~ 560pF ... ±5%

③ Capacity value

0.5pF ... 005	3pF ... 030	100pF ... 101
1pF ... 010	10pF ... 100	220pF ... 221
1.5pF ... 015	47pF ... 470	560pF ... 561

C*** : CERAMIC CAP.

4) DK16xxx300, High dielectric constant ceramic capacitor
 Disc type
 Temp.chara. 2B4, 50V

④ — Capacity value

Examples ;

④ Capacity value

100pF ... 101	1000pF ... 102	10000pF ... 103
470pF ... 471	2200pF ... 222	

C*** : 5) ELECTROLYTIC CAP. ($\frac{\square}{\square}$), 6) FILM CAP. ($\frac{\square}{\square}$)

5) EAxxx10, Electrolytic capacitor
 One-way lead type, Tolerance ±20%

⑤ — Working voltage
 ⑥ — Capacity value

Examples ;

⑤ Capacity value

0.1μF ... 104	4.7μF ... 475	100μF ... 107
0.33μF ... 334	10μF ... 106	330μF ... 337
1μF ... 105	22μF ... 226	1100μF ... 118
		2200μF ... 228

⑥ Working voltage

6.3V ... 006	25V ... 025
10V ... 010	35V ... 035
16V ... 016	50V ... 050

6) DF15xxx350 — Plastic film capacitor
 DF15xxx310 — One-way type, Mylar ±5% 50V
 DF16xxx310 — Plastic film capacitor
 One-way type, Mylar ±10% 50V

⑦ — Capacity value

Examples ;

⑦ Capacity value

0.001μF (1000pF) ... 102	0.1μF ... 104
0.0018μF ... 182	0.56μF ... 564
0.01μF ... 103	1μF ... 105
0.015μF ... 153	

NOTE : 1) The above CODES (R***, R***, C***, C*** and C***) are omitted on the schematic diagram in some case.

2) On the occasion, be confirmed the common parts on the parts list.

3) Refer to "Common Parts List" for the other common parts (RI05, DD4, DK4).

NOTE ON SAFETY FOR FUSIBLE RESISTOR :

The suppliers and their type numbers of fusible resistors are as follows;

1. KOA Corporation

Part No. (MJI)	Type No. (KOA)	Description
NH05xxx140	RF25SxxxxΩJ	(±5% 1/4W)
NH05xxx120	RF50SxxxxΩJ	(±5% 1/2W)
NH85xxx110	RF73B2AxxxxΩJ	(±5% 1/10W)
NH95xxx140	RF73B2ExxxxΩJ	(±5% 1/4W)

* Resistance value (0.1 - 10kΩ)

2. Matsushita Electronic Components Co., Ltd

Part No. (MJI)	Type No. (MEC)	Description
NF05xxx140	ERD-2FCJxxx	(±5% 1/4W)
RF05xxx140		
NF02xxx140	ERD-2FCGxxx	(±2% 1/4W)
RF02xxx140		

* Resistance value

Examples ;



* Resistance value

0.1Ω ... 001	10Ω ... 100	1kΩ ... 102	100kΩ ... 104
0.5Ω ... 005	18Ω ... 180	2.7kΩ ... 272	680kΩ ... 684
1Ω ... 010	100Ω ... 101	10kΩ ... 103	1MΩ ... 105
6.8Ω ... 068	390Ω ... 391	22kΩ ... 223	4.7MΩ ... 475


ABBREVIATION AND MARKS

ANT. : ANTENNA	BATT. : BATTERY
CAP. : CAPACITOR	CER. : CERAMIC
CONN. : CONNECTING	DIG. : DIGITAL
HP : HEADPHONE	MIC. : MICROPHONE
μ-PRO : MICROPROCESSOR	REC. : RECORDING
RES. : RESISTOR	SPK : SPEAKER
SW : SWITCH	TRANSF. : TRANSFORMER
TRIM. : TRIMMING	TRS. : TRANSISTOR
VAR. : VARIABLE	XTAL : CRYSTAL

NOTE ON SAFETY :

Symbol  Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意 :

 がついている部品は、安全上重要な部品です。必ず指定されている部品番号の部品を使用して下さい。

(VERS.:VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, :::EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CB07		4822 122 30043	PB04-BACK-UP CIRCUIT BOARD	
CB08		4822 122 30043	PB04-CAPACITORS	
▲ CB09		4822 122 33276	CER.,0.01μF +80%-20% 50V CER.,0.01μF +80%-20% 50V CER.,SPERK KILLER 0.01μF	DK18103310 DK18103310 DK17103840
C***			PB04-CAPACITORS (COMMON) ELECTROLYTIC CAP. TOLERANCE ±20%: CB01-CB03,CB05,CB06,CB10	
▲ RB01		4822 052 10109	PB04-RESISTORS	
RB03		4822 053 10471	10Ω ±5% 1/4W 470Ω 1W ±5%	GG05100140 GA05471010
▲ RB07	U		2.2MΩ ±10% 1/2W	RC10225820
R***			PB04-RESISTORS (COMMON) CARBON FILM FIXED RES., ±5% 1/16W:RE04,RB05,RB08	
DB01			PB04-SEMICONDUCTORS	
		4822 130 82421	DIODE,1D3 1A 200V	HD20002710
DB04				
DB05		4822 130 81729	ZENER DIODE,MTZJ33D 33V	HD33301000
DB06		4822 130 80273	ZENER DIODE,NTJ8.2C 8.2V	HD30821000
DB07		4822 130 82421	DIODE,1D3 1A 200V	HD20002710
DB08		4822 130 82421	DIODE,1D3 1A 200V	HD20002710
▲ QB01		4822 209 31927	IC,PQ05RR1 5V 1A W/RESET	HC38905320
▲ QB02		4822 130 62335	TRS.,2SD2033(E) 120V 1.8W	HT420331E0
▲ FB01	KK,KS	4822 253 30387	PB04-MISCELLANEOUS	
▲ FB01	U		FUSE,4 A 250V BS LISTED	FS10400850
▲ FB02	KS	4822 252 11189	FUSE,8A 125V SM U C D	FS10800540
▲ FB03	KS	4822 252 11189	FUSE,T2.5A 250V TR5 NO.19372	FS20250200 FS20250200
▲ JB01	KK,KS		JACK,FUSE CLIP 20MM	YJ08000580
▲ JB01	U	4822 256 30285	JACK,FUSE CLIP 20MM	YJ08000170
▲ JB02	KK,KS		JACK,FUSE CLIP 20MM	YJ08000590
▲ JB02	U	4822 256 30285	JACK,FUSE CLIP 20MM	YJ08000170
▲ JB03	KS	4822 267 31952	JACK,AC OUTLET 2P (N)	YJ04002080
▲ JB03	U		JACK,2P AC OUTLET CCT1304- 0212	YJ04002040
▲ LB01	K		POWER TRANSF.,115/230V	TS14823250
▲ LB01	KS	4822 146 10582	POWER TRANSF.,BACK UP	TS14823240
▲ LB01	KK		POWER TRANSF.,BACK UP	TS14823260
▲ LB01	U		POWER TRANSF.,BACK UP	TS14823230
▲ LB02		4822 280 80773	RELAY,VS24MB-NR TV-8 SEMKO LISTED	LY10240240
▲ Z007	K	4822 253 30243	FUSE,6.3A 250V BS LISTED	FS10630850
CC05		4822 126 10362	PC04-CROSSOVER CIRCUIT BOARD	
CC06		4822 126 10362	PC04-CAPACITORS	
CC07			CER.,22pF ±5%	DA15220110
			CER.,22pF ±5%	DA15220110
CC12		4822 124 21894	ELECT,10μF 16V	EJ10601610
CC17				
		4822 124 21894	ELECT,10μF 16V	EJ10601610
CC22				
CC23		4822 126 10362	CER.,22pF ±5% 50V	DA15220110
CC24		4822 126 10362	CER.,22pF ±5% 50V	DA15220110

(VERS.:VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, :::EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CC25		4822 124 21894	ELECT,10μF 16V	EJ10601610
CC26		4822 124 21894	ELECT,10μF 16V	EJ10601610
CC27		4822 126 10362	CER.,22pF 50V ±5%	DA15220110
CC28		4822 126 10362	CER.,22pF 50V ±5%	DA15220110
CC29		4822 124 21894	ELECT,10μF 16V	EJ10601610
CC30		4822 124 21894	ELECT,10μF 16V	EJ10601610
CC33				
		4822 124 21894	ELECT,10μF 16V	EJ10601610
CC36				
CC37		4822 126 10362	CER.,22pF 50V	DA15220110
CC38		4822 122 33792	CER.,10pF ±5%	DA15100120
CC39		4822 124 21894	ELECT,10μF 16V	EJ10601610
CC42		4822 124 21894	ELECT,10μF 16V	EJ10601610
CC45		4822 124 21894	ELECT,10μF 16V	EJ10601610
CC46		4822 122 33792	CER.,10pF ±5%	DA15100120
CC47		4822 124 21894	ELECT,10μF 16V	EJ10601610
CC48		4822 126 10362	CER.,22pF 50V	DA15220110
CC49		4822 124 21894	ELECT,10μF 16V	EJ10601610
CC54				
		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
CC59				
CC62				
		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
CC67				
CC70				
		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
CC77				
CC79		4822 124 21894	ELECT,10μF 16V	EJ10601610
CC80		4822 124 21894	ELECT,10μF 16V	EJ10601610
C***			PC04-CAPACITORS (COMMON) PLASTIC FILM CAP., ±5% 50V:CC01-CC04, CC13-CC16,CC31,CC32,CC41, CC43,CC44,CC52,CC53	
R***			PC04-RESISTORS (COMMON) CARBON FILM FIXED RES., ±5% 1/6W:RC01-RC58, RC62-RC72	
QC01			PC04-SEMICONDUCTORS	
		4822 209 83631	IC,NJM4558DD	HC10008090
QC10				
QC11			IC,NJU7311L ANALOG SW.	HC10123090
QC12		4822 209 83631	IC,NJM4558DD	HC10008090
CE01		4822 124 90352	PE04-ELE. VOL CIRCUIT BOARD	
CE02		4822 124 90352	PE04-CAPACITORS	
CE03			ELECT.,10μF ±20% 16V RA-2	OA10601620
			ELECT.,10μF ±20% 16V RA-2	OA10601620
CE06		4822 124 21894	ELECT,10μF 16V	EJ10601610
CE07		4822 124 22274	ELECT.,4.7μF ±20% 50V RA-2	OA47505020
CE08		4822 124 22274	ELECT.,4.7μF ±20% 50V RA-2	OA47505020
CE09				
		4822 124 21899	ELECT,4.7μF 25V	EJ47502510
CE12				
CE13		4822 124 22274	ELECT.,4.7μF ±20% 50V RA-2	OA47505020
CE14		4822 124 22274	ELECT.,4.7μF ±20% 50V RA-2	OA47505020
CE15				
		4822 124 21899	ELECT,4.7μF 25V	EJ47502510
CE18				
CE19		4822 124 22274	ELECT.,4.7μF ±20% 50V RA-2	OA47505020
CE20		4822 124 22274	ELECT.,4.7μF ±20% 50V RA-2	OA47505020

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CE21 CE24 CE25 CE26 CE27 CE30 CE31 CE32 CE33 CE34 CE35 CE36 CE41 CE42 CE43 CE46 CV88 CV91 CV94 CV96 CV97 CV98		4822 124 21899 4822 124 22274 4822 124 22274 4822 124 21899 4822 124 22274 4822 124 22274 4822 124 21899 4822 124 21899 4822 124 21899 4822 124 23055 4822 124 90352 4822 124 90352 4822 124 21894 4822 122 40617 4822 122 30043 4822 122 30043 4822 122 30043 4822 122 30043	ELECT,4.7μF 25V ELECT.,4.7μF ±20% 50V RA-2 ELECT.,4.7μF ±20% 50V RA-2 ELECT,4.7μF 25V ELECT.,4.7μF ±20% 50V RA-2 ELECT.,4.7μF ±20% 50V RA-2 ELECT,4.7μF 25V ELECT,4.7μF 25V ELECT,22μF ±20% 16V ELECT.,10μF ±20% 16V RA-2 ELECT.,10μF ±20% 16V RA-2 ELECT,10μF 16V CER.,0.1μF +80 -20% 50V DC CER.,0.01μF +80%-20% 50V CER.,0.01μF +80%-20% 50V CER.,0.01μF +80%-20% 50V CER.,0.01μF +80%-20% 50V	EJ47502510 OA47505020 OA47505020 EJ47502510 OA47505020 OA47505020 EJ47502510 EJ47502510 EJ22601610 OA10601620 OA10601620 EJ10601610 DD38104010 DK18103310 DK18103310 DK18103310 DK18103310
C* **			PE04-CAPACITORS (COMMON) HIGH DIELECTRIC CONSTANT CERAMIC CAP. ±10% 50V: [KS]CV80-CV85	
RV89 RV91	K,KK, KS	4822 113 90141	FUSE ,220Ω G 1/4W	NF02221140
R***			PE04-RESISTORS (COMMON) CARBON FILM FIXED RES., ±5% 1/6W:RE01-RE66, RE73-RE76,RV69-RV88, RV92-RV95	
DV01 DV03	K,KK, KS	4822 130 32362	DIODE,1SS176,MA165,1SS254 30V 0.1A	HD20002000
QE01 QE02 QE03 QE04 QE05 QE06 QE07 QE12 QV51 QV56 QV57 QV60		4822 209 83631 4822 209 83631 4822 209 83631 4822 209 31575 4822 209 31575 4822 209 31575 4822 209 83631 4822 130 43818 4822 130 43818 4822 130 43818	IC,NJM4558DD IC,NJM4558DD IC,NJM4558DD IC,TC9213P IC,TC9213P IC,TC9213P IC,NJM4558DD TRS.,2SC2878 A B TRS.,2SC2120 O TRS.,2SC2878 A B	HC10008090 HC10008090 HC10008090 HC10304050 HC10304050 HC10304050 HC10008090 HT328782A0 HT321201A0 HT328782A0
JV51 JV52		4822 265 10738 4822 267 41009	TERMINAL,14X14 RA 1L1P GRN NI FLM-GND TERMINAL,2P RCA PIN JACK	YT02010770 YT02020890
			PE04-MISCELLANEOUS	

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
JV53 LV01 LV01 LV02 LV02 LV03 LV03 LV04 LV06 LV07 LV08 LV09		4822 265 10681 4822 157 70813 4822 157 70813 4822 157 70813 4822 157 70813 4822 280 20501	TERMINAL,YKC21-3324 JUMPER,WIRE CHOKO COIL,LAL02TA470J 47μH JUMPER,WIRE CHOKO COIL,LAL02TA470J 47μH JUMPER,WIRE CHOKO COIL,LAL02TA470J 47μH RELAY,MR62-24SR 24V	YT02060540 75060501P0 LC14733800 75060501P0 LC14733800 75060501P0 LC14733800 LY20240410
CF01 CF02 CF03 CF04 CF09 CF10 CF11 CF21 CF22 CF23 CF25 CF26 CF27 CF28 CF40 CF41 CF43 CF48		4822 124 90352 4822 124 90352 4822 124 90352 4822 124 23056 5322 122 32265 5322 122 32265 5322 122 32265 4822 124 41539 4822 124 41539 4822 124 41539 4822 124 23055 4822 124 23055 4822 124 23055 4822 124 90358 4822 124 90354 4822 124 90354 4822 122 40588	ELECT.,10μF ±20% 16V RA-2 ELECT.,10μF ±20% 16V RA-2 ELECT.,10μF ±20% 16V RA-2 ELECT,47μF 16V CER.,100pF ±5% CH 50V BLK CER.,100pF ±5% CH 50V BLK CER.,100pF ±5% CH 50V BLK ELECT.,47μF ±20% 16V RA-2 ELECT.,47μF ±20% 16V RA-2 ELECT.,47μF ±20% 16V RA-2 ELECT,22μF 16V ELECT,22μF 16V ELECT,22μF 16V ELECT.,22μF ±20% 16V RA-2 ELECT.,100μF ±20% 16V RA-2 ELECT.,100μF ±20% 16V RA-2 CER.,0.022μF TP050F223Z	OA10601620 OA10601620 OA10601620 EJ47601610 DD15101300 DD15101300 DD15101300 OA47601620 OA47601620 OA47601620 EJ22601610 EJ22601610 EJ22601610 OA22601620 OA10701620 OA10701620 DA17223110
C***			PF04-TONE CIRCUIT BOARD PF04-CAPACITORS ELECT.,10μF ±20% 16V RA-2 ELECT.,10μF ±20% 16V RA-2 ELECT.,10μF ±20% 16V RA-2 ELECT,47μF 16V CER.,100pF ±5% CH 50V BLK CER.,100pF ±5% CH 50V BLK CER.,100pF ±5% CH 50V BLK ELECT.,47μF ±20% 16V RA-2 ELECT.,47μF ±20% 16V RA-2 ELECT.,47μF ±20% 16V RA-2 ELECT,22μF 16V ELECT,22μF 16V ELECT,22μF 16V ELECT.,22μF ±20% 16V RA-2 ELECT.,100μF ±20% 16V RA-2 ELECT.,100μF ±20% 16V RA-2 CER.,0.022μF TP050F223Z	
C* **			PF04-CAPACITORS (COMMON) PLASTIC FILM CAP., ±5% 50V:CF13-CF20, CF29-CF32	
RF41 RF42 RF43 R***		4822 100 12007	VAR.,RK0971430 100K(B)X4 VAR.,RK0971430 100K(B)X4 VAR.,RK09L1120 SPECIAL W	RG01040150 RG01040150 RK01040620
QF01 QF02 QF03		4822 209 70044 4822 209 83631 4822 209 83631	IC,QUAD OP.AMP NJM2058D IC,NJM4558D-D IC,NJM4558D-D	HC10031090 HC10008090 HC10008090

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PL04-VIDEO SELECTER CIRCUIT BOARD PL04-CAPACITORS	
CL01		4822 124 23055	ELECT,22μF 10V	EJ22601010
CL02		4822 124 21894	ELECT,10μF 16V	EJ10601610
CL03		4822 124 23055	ELECT,22μF 10V	EJ22601010
CL04		4822 124 21894	ELECT,10μF 16V	EJ10601610
CL05		4822 124 23055	ELECT,22μF 10V	EJ22601010
CL06		4822 124 21894	ELECT,10μF 16V	EJ10601610
CL09		4822 124 23055	ELECT,22μF 10V	EJ22601010
CL10		4822 124 21894	ELECT,10μF 16V	EJ10601610
CL14		4822 122 40617	CER.,0.1μF +80 -20% 50V DC	DD38104010
CL15		4822 122 40617	CER.,0.1μF +80 -20% 50V DC	DD38104010
CL16		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
CL17		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
CL24		4822 124 23055	ELECT,22μF ±20% 10V	EJ22601010
CL25		4822 124 21894	ELECT,10μF ±20% 16V	EJ10601610
CL31		4822 122 40617	CER.,0.1μF +80 -20% 50V DC	DD38104010
CX52		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
CX54		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
CX59		4822 124 23054	ELECT,0.47μF 50V	EJ47405010
CX61		4822 124 23053	ELECT,1μF 50V	EJ10505010
CX63		4822 124 23053	ELECT,1μF 50V	EJ10505010
CX67		4822 125 50384	TRIM.,VCT51E 20pF	CT12000200
CX70		4822 124 21899	ELECT,4.7μF 25V	EJ47502510
CX72		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
CX74		4822 124 23053	ELECT,1μF 50V	EJ10505010
CX75		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
			PL04-CAPACITORS (COMMON)	
C***			ELECTROLYTIC CAP. TOLERANCE ±20% : CL18, CL19,CL49-CL51,CL53,CX55, CX58,CX60,CX66,CX69,CX73	
			PLASTIC FILM CAP., ±5% 50V:CX64,CX65	
C***				
			HIGH DIELECTRIC CONSTANT CERAMIC CAP. ±10% 50V:CX62	
C* **				
			PL04-RESISTORS (COMMON) CARBON FILM FIXED RES., ±5% 1/6W:RL01-RL07, RL09-R11,RL15,RL18,RX51, RX57,RX59,RX60-RX62, RX65-RX71	
			PL04-SEMICONDUCTORS	
DL01		4822 130 32362	DIODE,1SS176 MA165 1SS254 30V 0.1A	HD20002000
I				
DL10		4822 130 32362	DIODE,1SS176,MA165,1SS254 30V 0.1A	HD20002000
DX61				
QL01		4822 209 31538	IC,LC7824 ANALOG SW	HC10275030
QL03		4822 209 32513	IC,MC 14576	HC10046170
QL05		4822 209 63455	IC,NJM2233D	HC12233090
QX60		4822 209 12668	IC,LC74760-9004 OSD LSI	HC10328030
QX61		4822 130 42298	TRS., C536SP,C2458,C3311,C1740S	HT30001000
QX62		4822 130 42594	DIG.TRS.,DTC144ES,UN4213 47K,47K	BA20002000
QX63		4822 209 32513	IC,MC 14576	HC10046170
QX64		4822 130 42298	TRS.,C536SP C2458 C3311 C1740S	HT30001000

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PL04-MISCELLANEOUS	
JL01		4822 265 10676	TERMINAL,YKC21-3235	YT02041130
JL02		4822 265 41264	TERMINAL,YKC21-3111	YT02030370
LX51		4822 157 62909	CHOKE COIL,22μH LAL02TA220J	LC12233800
LX52		4822 157 63312	CHOKE COIL,5.6μH LAL02TA5F6J	LC15623800
LX53		4822 242 73843	EMI FILTER, DSS306-91-F-223Z	FM12223010
XX51		4822 242 80288	CRYSTAL,AT49 14.31818MHZ	JX14001260
XX52	K,KS	4822 242 73903	CRYSTAL,AT49 17.7MHZ	JX17001260
			PL54-S-VIDEO CIRCUIT BOARD PL54-CAPACITORS	
CL52		4822 124 21894	ELECT,10μF 16V	EJ10601610
CL53		4822 124 21894	ELECT,10μF 16V	EJ10601610
CL57				
I		4822 124 21894	ELECT,10μF 16V	EJ10601610
CL60				
CL67		4822 122 40617	CER.,0.1μF +80 -20% 50V DC	DD38104010
CL71		4822 124 21894	ELECT,10μF ±20% 16V	EJ10601610
CL76		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
CL78		4822 124 21894	ELECT,10μF ±20% 16V	EJ10601610
			PL54-RESISTORS (COMMON) CARBON FILM FIXED RES., ±5% 1/6W:RL52,RL53, RL57-RL60,RL63,RL64,RL67 RL68-RL72,RL75	
			PL54-SEMICONDUCTORS	
QL55		4822 209 32513	IC,MC 14576	HC10046170
QL56		4822 209 32513	IC,MC 14576	HC10046170
QL58		4822 209 31538	IC,LC7824 ANALOG SW.	HC10275030
			PL54-MISCELLANEOUS	
JL52		4822 265 31302	TERMINAL,3P S YKF51-5506	YT02030350
JL53		4822 265 10678	TERMINAL,1P S YKF51-5506	YT02011010
			PL94-AUX IN CIRCUIT BOARD PL94-CAPACITORS	
CL91		4822 124 21894	ELECT,10μF 16V	EJ10601610
CL92		4822 124 23055	ELECT,22μF 16V	EJ22601610
CL93		4822 122 40617	CER.,0.1μF +80 -20% 50V DC	DD38104010
CL94		4822 122 40617	CER.,0.1μF +80 -20% 50V DC	DD38104010
CL95		4822 122 40617	CER.,0.1μF +80 -20% 50V DC	DD38104010
CS91		4822 124 21894	ELECT,10μF 16V	EJ10601610
CS92		4822 124 21894	ELECT,10μF 16V	EJ10601610
			PL94-RESISTORS (COMMON) CARBON FILM FIXED RES., ±5% 1/16W: RL91,RL92,RS91,RS92	
			PL94-SEMICONDUCTOR	
QS91		4822 209 83631	IC,NJM4558DD	HC10008090
			PL94-MISCELLANEOU	
JL91		4822 265 10679	TERMINAL,YKC21-5599	YT02030410
			PN54-PROTECTOR CIRCUIT BOARD PN54-SEMICONDUCTORS	
QN81		4822 130 61227	DIG.TRS.,DTA114ES,UN4111 10K,10K	BA10001000
QN84		4822 209 83312	IC,TA7317P	HC10042050

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJ)
CP03		4822 124 80542	PP04-SURROUND AMP CIRCUIT BOARD	
CP04		4822 124 80542	PP04-CAPACITORS	
CP09			ELECT,10μF ±20% 63V	EQ10606390
I			ELECT,10μF ±20% 63V	EQ10606390
CP12		4822 124 21895	ELECT,0.22μF 50V	EJ22405010
CP17		4822 124 23055	ELECT,22μF 10V	EJ22601010
C***			PP04-CAPACITORS (COMMON)	
			ELECTROLYTIC CAP.	
			TOLERANCE ±20%:	
			CP05-CP08,CP13-CP16,CP21,CP22	
C**			HIGH DIELECTRIC CONSTANT CERAMIC CAP.	
			±10% 50V:CP01,CP02	
RP11		4822 113 80363	PP04-RESISTORS	GO10222030
RP12		4822 113 80363	0.22Ω ±10% 3W	GO10222030
RP13		4822 052 10102	0.22Ω ±10% 3W	GG05102160
RP14		4822 052 10102	1KΩ ±5% 1/6W	GG05102160
RP21		4822 053 10109	1KΩ ±5% 1/6W	GA05100010
RP22		4822 053 10109	10Ω ±5% 1W	GA05100010
RP25		4822 052 10101	10Ω ±5% 1W	GG05101160
RP26		4822 052 10101	100Ω ±5% 1/6W	GG05101160
RP99		4822 052 10109	100Ω ±5% 1/6W	GG05100140
RP99		4822 052 10109	10Ω ±5% 1/4W	GG05100140
R***			PP04-RESISTORS (COMMON)	
			CARBON FILM FIXED RES.,	
			±5% 1/6W:RP01-RP10,	
			RP15-RP20,RP23,RP24,	
			RP27-RP29	
DP01		4822 130 80837	PP04-SEMICONDUCTORS	HD20027010
DP02		4822 130 80837	DIODE,HSS81TD 150V 150MA	HD20027010
▲ QP01		4822 209 32696	DIODE,HSS81TD 150V 150MA	HD20027010
QP02		4822 130 43233	IC,STK401-110 POWER PACK	HC10312030
QP03		4822 130 43233	TRS.,2SC2240 GR OR BL	HT322402A0
QP04		4822 130 42949	TRS.,2SC2240 GR OR BL	HT322402A0
			TRS.,2SA970 GR OR BL	HT109702A0
LP01		4822 157 70022	PP04-MISCELLANEOUS	ML08010030
LP02		4822 157 70022	AIR COIL,SPK CHOCK	ML08010030
SP91	K	4822 277 21825	PP91-VOL-SEL CIRCUIT BOARD	SS02021510
			PP91-MISCELLANEOUS	
			SLIDE SW.,SDKGA4 SEMKO	
CS01		4822 124 23056	PS04-AUDIO FUNCTION CIRCUIT BOARD	
I			PS04-CAPACITORS	
CS06			ELECT,47μF 16V	EJ47601610
CS07		4822 124 21899	ELECT,4.7μF 25V	EJ47502510
CS08		4822 124 21899	ELECT,4.7μF 25V	EJ47502510
CS11		4822 124 21899	ELECT,4.7μF 25V	EJ47502510
CS12		4822 124 21899	ELECT,4.7μF 25V	EJ47502510
CS15		4822 124 21899	ELECT,4.7μF 25V	EJ47502510
CS16		4822 124 21899	ELECT,4.7μF 25V	EJ47502510
CS17		4822 124 21894	ELECT,10μF 16V	EJ10601610
CS18		4822 124 21894	ELECT,10μF 16V	EJ10601610

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJ)
CS19		4822 122 40617	CER.,0.1μF +80 -20% 50V DC	DD38104010
CS21		4822 122 40617	CER.,0.1μF 50V	DD38104010
CS22		4822 122 40617	CER.,0.1μF 50V	DD38104010
C***			PS04-CAPACITORS (COMMON)	
			ELECTROLYTIC CAP.	
			TOLERANCE ±20%:	
			CS09,CS10,CS13,CS14,	
			[KS]CS23-KS38	
QS01		4822 209 83631	PS04-SEMICONDUCTORS	HC10008090
QS02		4822 209 83631	IC,NJM4558D-D	HC10008090
QS03		4822 209 83631	IC,NJM4558D-D	HC10008090
QS11		4822 209 32552	IC,LC78211	HC10308030
QS12		4822 209 32554	IC,LC78213	HC10310030
QS13		4822 209 83631	IC,NJM4558DD	HC10008090
JS01		4822 265 10748	PS04-MISCELLANEOUS	YT02060460
			TERMINAL,14X14 RA 2L6P W/R	
			NI FLM-GND	
JS02		4822 267 31823	TERMINAL,RCA PIN JACK	YT02040940
			RA2L4P YKC21-3049	
CG51		4822 124 21899	PS54-V-AUDIO FUNCTION CIRCUIT BOARD	
CG52		4822 124 21899	PS54-CAPACITORS	
CG55			ELECT,4.7μF 25V	EJ47502510
I			ELECT,4.7μF 25V	EJ47502510
CG60		4822 124 21899	ELECT,4.7μF 25V	EJ47502510
CG63		4822 124 21899	ELECT,4.7μF 25V	EJ47502510
CG64		4822 124 21899	ELECT,4.7μF 25V	EJ47502510
CS51		4822 124 23056	ELECT,47μF 16V	EJ47601610
I			ELECT,47μF 16V	EJ47601610
CS58		4822 124 21899	ELECT,4.7μF 25V	EJ47502510
CS59		4822 124 21899	ELECT,4.7μF 25V	EJ47502510
CS60		4822 124 21899	ELECT,4.7μF 25V	EJ47502510
CS61		4822 122 40617	CER.,0.1μF +80 -20% 50V	DD38104010
CS68		4822 122 40617	CER.,0.1μF +80 -20% 50V	DD38104010
CS69		4822 122 40617	CER.,0.1μF +80 -20% 50V	DD38104010
CS93		4822 124 23056	ELECT,47μF 16V	EJ47601610
CS94		4822 124 23056	ELECT,47μF 16V	EJ47601610
C***			PS54-CAPACITORS (COMMON)	
			ELECTROLYTIC CAP.	
			TOLERANCE ±20%:	
			CS62,CS63,CS65,CS66	
C**			HIGH DIELECTRIC CONSTANT CERAMIC CAP.	
			±10% 50V:	
			[KS]CG61,CG62,CG71-CG90,	
RG73		4822 113 90141	PS54-RESISTOR	NF02221140
			FUSE,220Ω G 1/4W	
R***			PS54-RESISTORS (COMMON)	
			CARBON FILM FIXED RES.,	
			±5% 1/6W:RG51-RG72,RG74,	
			RG75,RS51-RS78,RS83-RS86,	
			RS93,RS94	
DG51		4822 130 32362	PS54-SEMICONDUCTORS	HD20002000
			DIODE,1SS176,MA165,1SS254	
			30V 0.1A	
QG51		4822 130 61892	TRS.,2SD2144S U V	HT421442A0

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
QG52		4822 130 61892	TRS.,2SD2144S U V	HT421442A0
QG55		4822 209 83631	IC,NJM4558DD	HC10008090
QG56		4822 209 83631	IC,NJM4558DD	HC10008090
QG57		4822 209 31575	IC,TC9213P	HC10304050
QG59		4822 130 61892	TRS.,2SD2144 S U V	HT421442A0
QG60		4822 130 61892	TRS.,2SD2144 S U V	HT421442A0
QG61			TRS.,2SC2120 O	HT321201A0
QS51				
		4822 209 83631	IC,NJM4558D-D	HC10008090
QS54				
QS56		4822 209 32552	IC,LC78211	HC10308030
QS57		4822 209 32553	IC,LC78212	HC10309030
			PS54-MISCELLANEOUS	
JS51		4822 265 10748	TERMINAL,14X14 RA 2L6P W/R NI FLM-GND	YT02060460
JS52		4822 267 31451	TERMINAL,8P CINCH YKC21-3052	YT02080110
LG01		4822 280 20501	RELAY,MR62-24SR 24V	LY20240410
			PU04-FRONT CIRCUIT BOARD	
			PU04-CAPACITORS	
CL14	KS	4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
CU01		4822 122 40588	CER.,22000pF ±20% 25V	DA17223110
CU02		4822 124 23056	ELECT,47μF 10V	EJ47601010
CU03		4822 124 80087	ELECT,220μF 6.3V	EJ22700610
CU04		4822 122 40588	CER.,22000pF ±20% 25V	DA17223110
CU05		4822 126 11558	CER.,0.1μF ±20% 50V	DA17104110
CU07		4822 124 90406	BIG ELECT,SUPER 0.022F	EX22300530
CU10		4822 122 40588	CER.,22000pF ±20% 25V	DA17223110
CU13		4822 122 40617	CER.,0.1μF 50V +80%-20%	DD38104010
CU14	KS	4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
CU20		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
			PU04-RESISTORS (COMMON)	
<u>R***</u>			CARBON FILM FIXED RES., ±5% 1/6W:RU01-RU56	
			PU04-SEMICONDUCTORS	
DU01	K,KS	4822 130 80589	DIODE,1SS132	HD20029210
DU03		4822 130 80589	DIODE,1SS132	HD20029210
DU07		4822 130 32362	DIODE,1SS176,MA165,1SS254 30V 0.1A	HD20002000
DU09				
		4822 130 32362	DIODE,1SS176,MA165,1SS254 30V 0.1A	HD20002000
DU18				
DU19		4822 130 80326	L.E.D.,LT3D8B RED	HI10062320
QU01			MICROPROCESSOR, TMP87CP71F-6597	HU278JT000
QU02		4822 130 61227	DIG.TRS.,DTA114ES	BA10007210
QU03		4822 130 42298	TRS.,2SC536SP,2SC2458, 2SC3311,2SC1740S	HT30001000
QU04		4822 130 42594	DIG.TRS.,DTC144ES	BA20012210
QU07		4822 130 60588	DIG.TRS.,DTC114ES,UN4211 10K,10K	BA20001000
QU08		4822 130 42594	DIG.TRS.,DTC144ES	BA20012210
QU09		4822 130 42594	DIG.TRS.,DTC144ES	BA20012210
QU10		4822 130 42682	DIG.TRS.,DTA144ES,UN4113 47K,47K	BA10002000
QU11		4822 130 63211	DIG.TRS.,DTA114TS	BA10003210
QU12		4822 130 61227	DIG.TRS.,DTA114ES	BA10007210
QU14		4822 130 42682	DIG.TRS.,DTA144ES,UN4113 47K,47K	BA10002000
QU15		4822 130 42594	DIG.TRS.,DTC144ES	BA20012210
QU16		4822 130 83519	PHOTO UNIT,IR RECIVER RPM-670CBR	HW10001210
QU17		4822 130 61227	DIG.TRS.,DTA114ES	BA10007210

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
QU18		4822 209 14612	IC,74HC541 DIP	HC754100B0
			PU04-MISCELLANEOUS	
SU01				
		4822 276 20508	PUSH SW.,TACT (INS)	SP01011280
SU27				
VU01			DISPLAY UNIT,FL FIP12EM8R	HQ31208060
XU01		4822 242 72066	SERAMVIB.,CERALOCK CST 8.00MHZ(MT)	FQ08004010
			PU54-MASTER VOL CIRCUIT BOARD	WA278J5010
			PU54-CAPACITORS	
CU71		4822 126 10364	CER.,100pF ±20% 50V	DA16101110
CU72		4822 126 10364	CER.,100pF ±20% 50V	DA16101110
			PU54-RESISTRS (COMMON)	
<u>R***</u>			CAEBON FILM FIXED RES., ±5% 1/6W:RU71-RU74	
			PU54-SMICONDUCTORS	
QU71		4822 130 42298	TRS.,2SC536SP,2SC536SP, 2SC2458,2SC3311,2SC1740S	HT30001000
QU72		4822 130 42298	TRS.,2SC536SP,2SC536SP, 2SC2458,2SC3311,2SC1740S	HT30001000
			PU54-MISCELLANEOU	
SU75		4822 273 10296	ROTARY SW.,ENCODER EC16B40B0	SR02010040
			PU54-POWER SW CIRCUIT BOARD	
			PU54-MISCELLANEOUS	
SU91	K,KS	4822 276 12217	PUSH SW.,ALPS SPUL12 2-2 NON-SH.MID-PWR	SP02011570
SU91	KK,U	4822 276 12512	PUSH SW.,ALPS SPUL NON-LOCK TYPE	SP02011670
			PW04-H.P CIRCUIT BOARD	
			PW04-CAPACITORS	
CW01	KS	4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
CW02	KS	4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
CW03	KS	4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
			PW04-MISCELLANEOUS	
JW01	K,KK,U	4822 265 10685	JACK,H.P HLJ2307-01-3160	YJ01004240
JW01	KS	4822 265 10685	JACK,HLJ2307-01-3160	YJ01004240
			PY04-CONNECT CIRCUIT BOARD	
			PY04-CAPACITORS	
CY02		4822 122 40617	CER.,0.1μF +80 -20% 50V DC	DD38104010
CY04		4822 122 40617	CER.,0.1μF +80 -20% 50V DC	DD38104010
CY14		4822 122 40617	CER.,0.1μF +80 -20% 50V DC	DD38104010
			PY04-CAPACITORS (COMMON)	
<u>C* **</u>			HIGH DIELECTRIC CONSTANT CERAMIC CAP. ±10% 50V:CS95[KS], CY06,CY10,CY15-CY17	
			PY04-RESISTORS (COMMON)	
<u>R***</u>			CARBON FILM FIXED RES., ±5% 1/6W:RY01-RY10, RY12-RY15,RY22,RY23, RY25-RY32	

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
PY04-SEMICONDUCTORS				
DY01		4822 130 32362	DIODE,1SS176,MA165,1SS254 30V 0.1A	HD20002000
I				
DY08		4822 130 82421	DIODE,1D3 1A 200V	HD20002710
DY09		4822 130 32362	DIODE,1SS176 MA165 1SS254 30V 0.1A	HD20002000
DY10				
DY11		4822 130 32362	DIODE,1SS176 MA165 1SS254 30V 0.1A	HD20002000
QY01		4822 130 61227	DIG.TRS.,DTA114ES,UN4111	BA10001000
QY02		4822 130 42594	DIG.TRS.,DTC144ES,UN4213 47K,47K	BA20002000
QY03		4822 130 61227	DIG.TRS.,DTA114ES,UN4111	BA10001000
QY04		4822 130 42594	DIG.TRS.,DTC144ES,UN4213 47K,47K	BA20002000
QY05		4822 130 61227	DIG.TRS.,DTA114ES,UN4111	BA10001000
QY06		4822 130 42594	DIG.TRS.,DTC144ES,UN4213 47K,47K	BA20002000
QY07		4822 130 61227	DIG.TRS.,DTA114ES,UN4111	BA10001000
QY08		4822 130 42594	DIG.TRS.,DTC144ES,UN4213 47K,47K	BA20002000
QY10		4822 209 33024	IC,TC9173P	HC10370050
QY11		4822 209 61704	IC,TC9174P	HC10250050
QY12		4822 209 62784	IC,ANALOGUE TC9215P	HC10262050
QY14		4822 130 61227	DIG.TRS.,DTA114ES,UN4111	BA10001000
QY15		4822 130 60588	DIG.TRS.,DTC114ES,UN4211	BA20001000
PY04-MISCELLANEOUS				
JY09			JACK,9604S-23F 23P FFC CONNECTOR	YJ07011160
P104-TUNER CIRCUIT BORD				
P104-CAPACITORS				
CA01		4822 125 50384	TRIM.,VCT51E 20pF	CT12000200
CA02		4822 122 40306	CER.,0.047μF +80%-20% 50V	DK18473310
CA04		4822 121 42466	FILM,390pF ±5%100V ECQ-P	DF15391550
CA06		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
CA18		4822 124 21899	ELECT,4.7μF 25V	EJ47502510
C201		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
C202		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
C203		4822 122 40306	CER.,0.047μF +80%-20% 50V	DK18473310
C204		4822 122 40306	CER.,0.047μF +80%-20% 50V	DK18473310
C205		4822 124 23053	ELECT,1μF 50V	EJ10505010
C206		4822 124 21894	ELECT,10μF 16V	EJ10601610
C208		4822 122 40306	CER.,0.047μF +80%-20% 50V	DK18473310
C209		4822 124 23053	ELECT,1μF 50V	EJ10505010
C210		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
C211		4822 124 40786	ELECT,2.2μF ±20% 50V	EJ22505010
C212		4822 124 23053	ELECT,1μF 50V	EJ10505010
C213		4822 124 23054	ELECT,0.47μF 50V	EJ47405010
C215		4822 122 40306	CER.,0.047μF +80%-20% 50V	DK18473310
C218		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
C219		4822 124 21894	ELECT,10μF 16V	EJ10601610
C223		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
C224	K,KS	4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
C225		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
C226		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
C227	K,KS	4822 121 42466	FILM,390pF ±5%	DF15391550
C233		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
C234		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
C303		4822 124 21894	ELECT,10μF 16V	EJ10601610
C304		4822 124 21894	ELECT,10μF 16V	EJ10601610
C305	K,KS	4822 124 21899	ELECT,4.7μF 25V	EJ47502510
C306	K,KS	4822 124 21899	ELECT,4.7μF 25V	EJ47502510
C307	K,KS	4822 124 21894	ELECT,10μF 16V	EJ10601610
C308	K,KS	4822 124 21894	ELECT,10μF 16V	EJ10601610
C311		4822 124 23055	ELECT,22μF 16V	EJ22601610

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
C312		4822 124 23055	ELECT,22μF 16V	EJ22601610
C313	K,KS	4822 124 21894	ELECT,10μF 16V	EJ10601610
C504		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
C505		4822 124 23053	ELECT,1μF 50V	EJ10505010
C506		4822 124 41604	ELECT,0.1μF 50V	EJ10405010
C507		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
C511		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
P104-CAPACITORS (COMMON)				
ELECTROLYTIC CAP. TOLERANCE ±20%: CA03,CA05,C207,C214,C216, C314,C501-C503,C508				
P104-CAPACITORS (COMMON)				
ELECTROLYTIC CAP. TOLERANCE ±20%: CA03,CA05,C207,C214,C216, C314,C501-C503,C508				
P104-CAPACITORS (COMMON)				
PLASTIC FILM CAP., ±50% 50V:C217,C227[KK,U], C301,C302,C309,C310[K]				
P104-CAPACITORS (COMMON)				
HIGH DIELECTRIC CONSTANT CERAMIC CAP. ±50% 50V:C220,C222, C316-C318[KS],C509,C510				
P104-RESISTORS				
RA11		4822 100 11352	TRIM.,22KΩ RH0638CJ4R	RA02230780
▲ R207		4822 050 21801	180Ω ±5% 1/4W	GG05181140
R211	K,KS	4822 100 11352	TRIM.,22KΩ B	RA02230780
R211	KK,U	4822 100 11373	TRIM.,4.7KΩ B	RA04720780
R212		4822 100 11373	TRIM.,4.7KΩ B	RA04720780
▲ R217	K,KK,U	4822 116 83929	220Ω ±5% 1/4W	GG05221140
▲ R217	KS	4822 050 21801	180Ω ±5% 1/4W	GG05181140
R218	K,KS	4822 100 11373	TRIM.,4.7KΩ B	RA04720780
R313	K,KS	4822 116 83929	220Ω ±5% 1/4W	GG05221140
▲ R512		4822 053 10271	270Ω ±5% 1W	GA05271010
▲ R514		4822 052 10479	47Ω ±5% 1/6W	GG05470160
P104-RESISTORS (COMMON)				
CARBON FILM FIXED RES., ±5% 1/16W:R102,R103[KS], R201-R206,R208-R210,R213, R214-216,R219,R301-R312, R501-R504,R506-R508,R510, R511,R513,R515-R517,RA01, RA02				
P104-SEMICONDUCTORS				
DA01		4822 125 50416	VARI,SVC342-L	HD40009030
DA02			JUMPER,WIRE	75060501P0
DA05		4822 130 32362	DIODE,1SS176,MA165,1SS254 30V 0.1A	HD20002000
DA06		4822 130 32362	DIODE,1SS176,MA165,1SS254 30V 0.1A	HD20002000
D201		4822 130 32362	DIODE,1SS176,MA165,1SS254 30V 0.1A	HD20002000
D202		4822 130 80318	ZENER DIODE,6.8V 04AZ6.8-Z, RD6.8ES B2,MTZJ 6.8C	HD30681000
D501		4822 130 80317	ZENER DIODE,5.1V 04AZ5.1-Y, RD5.1ES B2,MTZJ 65.1B	HD30511000
Q201		4822 209 90535	IC,LA1836 FVAM IF,MPX IC	HC10342030
Q202		4822 130 62294	TRS.,2SC1809S P	HT318091P0
Q203		4822 130 61227	DIG.TRS.,DTA114ES,UN4111 10K,10K	BA10001000
Q204		4822 130 42594	DIG.TRS.,DTC144ES,UN4213 47K,47K	BA20002000
Q301	K,KS	4822 209 83631	IC,NJM4558D-D	HC10008090
Q501		4822 209 30178	IC,LC7218 PLL	HC10221030
Q502		4822 130 42121	F.E.T.,2SK30ATM Y1	HF200300B0
Q503		4822 130 42298	TRS.,C536SP,C2458,C3311, C1740S	HT30001000

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
A101	K, KK, KS, U	4822 210 10397	P104-MISCELLANEOUS FM FRONT END FE337-A05	AV01202220
F201	K, KS	4822 242 70665	CER. FILTER, SFE10.7MS3-A	FF11070620
F201	KK, U	4822 242 70911	CER. FILTER, SFF10.7MA8-A	FF11070610
F202		4822 242 70665	CER. FILTER, SFE10.7MS3-A	FF11070620
J101	K, KK, KS	4822 290 81632	TERMINAL, FM/AM ANT PAL	YT03030020
J101	U	4822 290 81537	TERMINAL, FM/AM ANT F	YT01030080
LA01		4822 157 63084	ANT COIL, MW 280μH	LA10295170
LA02		4822 157 70779	OSC. COIL, MW	LO70013010
LA05		4822 157 53589	CHOKE COIL, 39MH J	LC23960710
LA06		4822 242 71509	CER. FILTER, SFL450J3	FF10045330
L201		4822 157 63904	I.F.T. COIL, FM DET COIL, M292BEAS-5968Z	LI70376010
L301		4822 157 71731	M.P.X. COIL, 19,38KHZ LPF	LS10293020
L302		4822 157 71731	M.P.X. COIL, 19,38KHZ LPF	LS10293020
L501				
I		4822 157 70813	CHOKE COIL, 47μH LAL02TA470J	LC14733800
L504				
S301	K	4822 277 21712	SLIDE SW., ALPS SSSS92	SS02021470
X201		4822 242 81608	SERAMVIB., CSB456F33	FQ04563040
X501		4822 242 72333	CRYSTAL, AD0618CTB 7.2MHZ	JX07001260
			P604-DOLBY DIGITAL DSP CIRCUIT BOARD	
			P604-CAPACITORS	
CD01		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CD02		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CD04		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CD05		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CD06		4822 124 21894	ELECT, 10μF 16V	EJ10601610
CD09		4822 124 21894	ELECT, 10μF 16V	EJ10601610
CD10		4822 124 21894	ELECT, 10μF 16V	EJ10601610
CD15		4822 124 21894	ELECT, 10μF 16V	EJ10601610
CD16		4822 124 21894	ELECT, 10μF 16V	EJ10601610
CD17		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CD18		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CD31		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CD32		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CD34		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CD35		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CD36		4822 124 21894	ELECT, 10μF 16V	EJ10601610
CD39		4822 124 21894	ELECT, 10μF 16V	EJ10601610
CD40		4822 124 21894	ELECT, 10μF 16V	EJ10601610
CD45		4822 124 21894	ELECT, 10μF 16V	EJ10601610
CD46		4822 124 21894	ELECT, 10μF 16V	EJ10601610
CD47		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CD48		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CD51		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CD52		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CD54		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CD55		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CD56		4822 124 21894	ELECT, 10μF 16V	EJ10601610
CD59		4822 124 21894	ELECT, 10μF 16V	EJ10601610
CD60		4822 124 21894	ELECT, 10μF 16V	EJ10601610
CD65		4822 124 21894	ELECT, 10μF 16V	EJ10601610
CD66		4822 124 21894	ELECT, 10μF 16V	EJ10601610
CD67		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CD68		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CK01		4822 124 21894	ELECT, 10μF 16V	EJ10601610
CK02		4822 124 21894	ELECT, 10μF 16V	EJ10601610
CK03		4822 124 21894	ELECT, 10μF 16V	EJ10601610
CK04		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CK05		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CK06		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CK09		4822 126 12495	CER.CHIP, 1500pF ±10% GR39	DK96152300
CK10		4822 126 12495	CER.CHIP, 1500pF ±10% GR39	DK96152300
CK11		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CK12		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CK13		4822 124 21894	ELECT, 10μF 16V	EJ10601610
CK14		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CK16		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CK18		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CM01		4822 126 11567	CER.CHIP, 0.022μF ±10% 16V	DK96223200
CM03		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CM05		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CM06		5322 126 11578	CER.CHIP, 1000pF ±10% B 50V	DK96102300
CM11		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CM13		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CM14		4822 122 33753	CER.CHIP, 150pF ±5% CG 50V	DD95151300
CM15		4822 122 33753	CER.CHIP, 150pF ±5% CG 50V	DD95151300
CM18		4822 126 13837	CER.CHIP, 0.1μF ±10% B 10V	DK96104200
CM19			CER.CHIP, 0.01μF ±10% 50V	DK96103300
CM34		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CM36		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CM37		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CM39			ELECT, 47μF 16V	EQ47601630
CM42			CER.CHIP, 0.01μF ±10% 50V	DK96103300
CM43			CER.CHIP, 0.01μF ±10% 50V	DK96103300
CM44		4822 122 33757	CER.CHIP, 18pF ±5% GR39	DD95180300
CM45		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CM46		4822 122 33757	CER.CHIP, 18pF ±5% GR39	DD95180300
CM51		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200
CM52		4822 122 33744	CER.CHIP, 100pF ±5% CG 50V	DD95101300
CM53		4822 126 11687	CER.CHIP, 0.1μF +80%-20% GRM39F104Z16	DK98104200

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LK01		4822 526 10584	FERRITE CORE, ZBF503D-00TA	FC90090010
LM01			CHIP INDUCTANCE,68μH	LU12683010
LM02		4822 242 10582	L.C. FILTER,SBP-4930 2.88MHZ B.P.F	FF30288010
L601				
L604		4822 242 73843	EMI FILTER,0.022μF	FM12223010
L605		4822 526 10584	FERRITE CORE, ZBF503D-00TA	FC90090010
L606		4822 242 73843	EMI FILTER,0.022μF	FM12223010
L651				
L659		4822 116 82487	CHIP ,0Ω ±5% 1/16W	NN05000610
L660		4822 051 30221	CHIP ,220Ω ±5% 1/16W	NN05221610
L671				
L676		4822 116 82487	CHIP ,0Ω ±5% 1/16W	NN05000610
XM01		4822 242 10577	CRYSTAL,CX-5F 18.432MHZ	JX18001380
XR01		4822 242 10578	CRYSTAL,CX-5F 24.5760MHZ	JX24001380
X651		4822 242 80349	SERAMVIB.,8.0MHZ (EFO V)	FQ08004030
			P704 -MAIN AMP/POWER SUPPLY CIRCUIT BOARD	WA261J1000
			P704-CAPACITORS	
CN04	K,KS	4822 124 21982	ELECT,3.3μF 50V	EJ33505010
CN04	KK,U	4822 124 40786	ELECT,2.2μF 50V	EJ22505010
CN05		4822 122 40617	CER.,0.1μF +80 -20% 50V DC	DD38104010
CN06		4822 124 23056	ELECT,47μF 16V	EJ47601610
CN07		4822 124 23056	ELECT,47μF 16V	EJ47601610
CN08		4822 124 23053	ELECT,1μF 50V	EJ10505010
CN09		4822 126 10935	ELECT,100μF 10V	EJ10701010
CN10		4822 122 40617	CER.,0.1μF +80%-20% 50V	DD38104010
CN12		4822 122 40617	CER.,0.1μF +80%-20% 50V	DD38104010
C701		4822 124 22275	ELECT.,47μF ±20% 10V RA-2	OA47601020
C702		4822 124 22275	ELECT.,47μF ±20% 10V RA-2	OA47601020
C709			ELECT,1μF ±20% 100V	EA10510010
C710			ELECT,1μF ±20% 100V	EA10510010
C711		4822 124 23562	ELECT.,10μF ±20% 100V RA-2	OA10610020
C712		4822 124 23562	ELECT.,10μF ±20% 100V RA-2	OA10610020
C719				
C722		4822 124 40751	ELECT.,470μF ±20% 63V RA-2	OA47706320
C723		4822 124 90351	ELECT.,0.1μF ±20% 50V RA-2	OA10405020
C724		4822 124 90351	ELECT.,0.1μF ±20% 50V RA-2	OA10405020
C725		4822 124 90351	ELECT.,0.1μF ±20% 50V RA-2	OA10405020
C726		4822 124 90351	ELECT.,0.1μF ±20% 50V RA-2	OA10405020
C751		4822 124 22275	ELECT.,47μF ±20% 10V RA-2	OA47601020
C756		4822 124 23562	ELECT.,10μF ±20% 100V RA-2	OA10610020
C759			ELECT,1μF ±20% 100V	EA10510010
C760		4822 124 40751	ELECT.,470μF ±20% 63V RA-2	OA47706320
C761		4822 124 40751	ELECT.,470μF ±20% 63V RA-2	OA47706320
C762		4822 124 41604	ELECT,0.1μF 50V	EJ10405010
C763		4822 124 41604	ELECT,0.1μF 50V	EJ10405010
C801		4822 126 12453	CER.,0.01μF +80%-20% E 500V	DK18103560
▲ C802			ELECT,27000μF 63V (LH6)	EB27906310
▲ C803			ELECT,27000μF 63V (LH6)	EB27906310
C804		4822 126 12453	CER.,0.01μF +80%-20% E 500V	DK18103560
▲ C805		4822 124 80646	ELECT,8200μF ±20% 56V	EB82805650
▲ C806		4822 124 80646	ELECT,8200μF ±20% 56V	EB82805650
C807		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
C808		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
C811		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
C812		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
C815		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
C816		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
C820		4822 122 40586	CER.,10000pF ±20%	DA17103110
C824		4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310

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C899	KS	4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
			P704-CAPACITORS (COMMON)	
			ELECTROLYTIC CAP. TOLERANCE ±20%:	
			C703,C704,C707,C708,C715,C716,C752,C754,C758,C809,C810,C813,C814,C817-C819,C821-C823,C825-C829	
			HIGH DIELECTRIC CONSTANT CERAMIC CAP.	
			C703,C704[KS],C705,C706,C713,C714[KS],C752,C753,C754	
			P704-RESISTORS	
▲ RN01		4822 052 10122	1.2KΩ ±5% 1/6W	GG05122160
▲ RN02		4822 052 10122	1.2KΩ ±5% 1/6W	GG05122160
RN20		4822 050 22262	2.2KΩ ±5% 1/4W	GG05222140
RN27		4822 053 10561	560Ω ±5% 1W	GA05561010
RN28		4822 053 10561	560Ω ±5% 1W	GA05561010
▲ RN35		4822 052 10109	10Ω ±5% 1/6W	GG05100160
▲ RN43				
▲ I		4822 052 10101	100Ω ±5% 1/6W	GG05101160
▲ RN46				
▲ RN51		4822 052 10122	1.2KΩ ±5% 1/6W	GG05122160
▲ RN57		4822 052 10101	100Ω ±5% 1/6W	GG05101160
▲ RN58		4822 052 10101	100Ω ±5% 1/6W	GG05101160
RN63		4822 101 11664	TRIM.,100Ω	RA01010780
RN64		4822 101 11664	TRIM.,100Ω	RA01010780
RN70		4822 101 11664	TRIM.,100Ω	RA01010780
▲ R723				
▲ I		4822 052 10561	560Ω ±5% 1/6W	GG05561160
▲ R726				
▲ R729				
▲ I		4822 052 10561	560Ω ±5% 1/6W	GG05561160
▲ R732				
▲ R737				
▲ I		4822 052 10569	56Ω ±5% 1/6W	GG05560160
▲ R740				
R743		4822 100 20681	TRIM.,2.2KΩ RH0638CJ3R	RA02220780
R744		4822 100 20681	TRIM.,2.2KΩ RH0638CJ3R	RA02220780
▲ R749				
▲ I		4822 052 10228	2.2Ω ±5% 1/6W	GG05022160
▲ R752				
▲ R753		4822 050 21801	180Ω ±5% 1/4W	GG05181140
▲ R754		4822 050 21801	180Ω ±5% 1/4W	GG05181140
▲ R755				
▲ I		4822 052 10109	10Ω ±5% 1/4W	GG05100140
▲ R758				
▲ R759		4822 113 80612	0.18Ω ±10% 5W X2 RGC55 W/T.P	BZ10182020
▲ R760		4822 113 80612	0.18Ω ±10% 5W X2 RGC55 W/T.P	BZ10182020
R761				
I		4822 052 10109	10Ω ±5% 1/6W	GG05100160
R764				
▲ R776		4822 052 10561	560Ω ±5% 1/6W	GG05561160
▲ R777		4822 052 10561	560Ω ±5% 1/6W	GG05561160
▲ R779		4822 052 10561	560Ω ±5% 1/6W	GG05561160
▲ R780		4822 052 10561	560Ω ±5% 1/6W	GG05561160
▲ R783		4822 052 10569	56Ω ±5% 1/6W	GG05560160
▲ R784		4822 052 10569	56Ω ±5% 1/6W	GG05560160
R786		4822 100 20681	TRIM.,2.2KΩ RH0638CJ3R	RA02220780
▲ R789		4822 052 10228	2.2Ω ±5% 1/6W	GG05022160
▲ R790		4822 052 10228	2.2Ω ±5% 1/6W	GG05022160
▲ R791		4822 050 21801	180Ω ±5% 1/4W	GG05181140
▲ R792		4822 052 10109	10Ω ±5% 1/4W	GG05100140

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▲ R793		4822 052 10109	10Ω ±5% 1/4W	GG05100140
▲ R794		4822 113 80612	0.18Ω ±10% 5W X2 RGC55 W/T.P	BZ10182020
R795		4822 052 10109	10Ω ±5% 1/6W	GG05100160
R796		4822 053 10109	10Ω ±5% 1W	GA05100010
R***			P704-RESISTORS (COMMON) CARBON FILM FIXED RES., ±5% 1/16W:R701-R722,R727, R728,R733,R734,R741,R742, R745-R748,R765-R775,R778, R781,R785,R787,R788, R797-R799,RN03-RN08, RN10-RN16,RN21-RN26, RN30-RN33,RN36,RN41,RN42, RN52-RN56,RN61,RN62	
			P704-SEMICONDUCTORS	
DN01		4822 130 82421	DIODE,1D3 1A 200V	HD20002710
DN04				
DN07		4822 130 80837	DIODE,HSS81TD 150V 150MA	HD20027010
DN08		4822 130 80837	DIODE,HSS81TD 150V 150MA	HD20027010
DN09		4822 130 82421	DIODE,1D3 1A 200V	HD20002710
DN51		4822 130 82421	DIODE,1D3 1A 200V	HD20002710
DN52		4822 130 80837	DIODE,HSS81TD 150V 150MA	HD20027010
D701		4822 130 32362	DIODE,1SS176,MA165,1SS254 30V 0.1A	HD20002000
D704				
D705				
D708		4822 130 80837	DIODE,HSS81TD 150V 150MA	HD20027010
D709				
D712		4822 130 31554	ZENER DIODE,4.3V 04AZ4.3-Y, RD4.3ES B2,MTZJ 4.3C	HD30431000
D751		4822 130 32362	DIODE,1SS176,MA165,1SS254 30V 0.1A	HD20002000
D752		4822 130 32362	DIODE,1SS176,MA165,1SS254 30V 0.1A	HD20002000
D753		4822 130 80837	DIODE,HSS81TD 150V 150MA	HD20027010
D754		4822 130 80837	DIODE,HSS81TD 150V 150MA	HD20027010
D755		4822 130 31554	ZENER DIODE,4.3V 04AZ4.3-Y, RD4.3ES B2,MTZJ 4.3C	HD30431000
D756		4822 130 31554	ZENER DIODE,4.3V 04AZ4.3-Y, RD4.3ES B2,MTZJ 4.3C	HD30431000
▲ D801		4822 130 33133	DIODE,D5FB20 200V 5A W/FIN	HE20012290
▲ D802		4822 130 31007	DIODE,S4VB20	HE20015290
▲ D803		4822 130 33057	DIODE,S2VB20	HE20011290
▲ D804		4822 130 33057	DIODE,S2VB20	HE20011290
D805				
D809		4822 130 82421	DIODE,1D3 1A 200V	HD20002710
QN01		4822 130 43233	TRS.,2SC2240 GR OR BL	HT322402A0
QN02		4822 130 43233	TRS.,2SC2240 GR OR BL	HT322402A0
QN03		4822 130 42949	TRS.,2SA970 GR OR BL	HT109702A0
QN07		4822 130 42715	TRS., A608SP,A1048,A1309,A933S	HT10001000
QN08		4822 130 60696	TRS.,2SC1627 O,Y 80V 300MA 600MW TO	HT316272B0
QN51		4822 130 43233	TRS.,2SC2240 GR OR BL	HT322402A0
Q701				
Q706		4822 130 42949	TRS.,2SA970 GR OR BL	HT109702A0

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Q707				
Q710		4822 130 43283	TRS.,2SC2705 O OR Y	HT327052A0
▲ Q711		5322 130 61728	TRS.,2SA1360 O OR Y	HT113602A0
▲ Q712		5322 130 61728	TRS.,2SA1360 O OR Y	HT113602A0
▲ Q713		5322 130 61737	TRS.,2SC3423 O OR Y	HT334232A0
▲ Q714		5322 130 61737	TRS.,2SC3423 O OR Y	HT334232A0
▲ Q715		4822 130 60117	TRS.,C3419Y 40V 0.8A PC=1.2W(5W)	HT334191Y0
▲ Q716		4822 130 60117	TRS.,C3419Y 40V 0.8A PC=1.2W(5W)	HT334191Y0
▲ Q717		4822 130 63312	TRS.,2SC4883 O OR Y	HT348832A0
▲ Q718		4822 130 63312	TRS.,2SC4883 O OR Y	HT348832A0
▲ Q719		4822 130 63308	TRS.,2SA1859 O OR Y	HT118592A0
▲ Q720		4822 130 63308	TRS.,2SA1859 O OR Y	HT118592A0
▲ Q721			TRS.,2SC5200 R OR O 230V 15A 150W	HT352002A0
▲ Q722			TRS.,2SC5200 R OR O 230V 15A 150W	HT352002A0
▲ Q723			TRS.,2SA1943 R OR O 230V 15A 150W	HT119432A0
▲ Q724			TRS.,2SA1943 R OR O 230V 15A 150W	HT119432A0
Q751		4822 130 42949	TRS.,2SA970 GR OR BL	HT109702A0
Q752		4822 130 42949	TRS.,2SA970 GR OR BL	HT109702A0
Q753		4822 130 42949	TRS.,2SA970 GR OR BL	HT109702A0
Q754		4822 130 43283	TRS.,2SC2705 O OR Y	HT327052A0
Q755		4822 130 43283	TRS.,2SC2705 O OR Y	HT327052A0
▲ Q756		5322 130 61728	TRS.,2SA1360 O OR Y	HT113602A0
▲ Q757		5322 130 61737	TRS.,2SC3423 O OR Y	HT334232A0
▲ Q758		4822 130 60117	TRS.,C3419Y 40V 0.8A PC=1.2W(5W)	HT334191Y0
▲ Q759		4822 130 63312	TRS.,2SC4883 O OR Y	HT348832A0
▲ Q760		4822 130 63308	TRS.,2SA1859 O OR Y	HT118592A0
▲ Q761			TRS.,2SC5200 R OR O 230V 15A 150W	HT352002A0
▲ Q762			TRS.,2SA1943 R OR O 230V 15A 150W	HT119432A0
▲ Q801		4822 209 83317	IC,NJM7815FA +15V 1A	HC38915090
▲ Q802		4822 209 31864	IC,NJM7915FA -15V 1A	HC39915090
▲ Q803		4822 209 31631	IC,NJM7805FA +5V 1A	HC38905090
▲ Q804		4822 209 63179	IC,NJM7905FA -5V 1A	HC38905090
▲ Q805		4822 209 31631	IC,NJM7805FA +5V 1A	HC38905090
▲ F802	K,KS	4822 253 30358	FUSE,5A 250V BS LISTED	FS10500850
▲ F802	U		FUSE,6.3A 125V FTB	FS10630350
▲ F803	K,KS	4822 253 30358	FUSE,5A 250V BS LISTED	FS10500850
▲ F803	U		FUSE,6.3A 125V FTB	FS10630350
LN01		4822 280 10305	RELAY,VB-18MBU-565-UL3	LY20180020
LN02		4822 280 10305	RELAY,VB-18MBU-565-UL3	LY20180020
▲ LN03		4822 280 20501	RELAY,MR62-24SR 24V	LY20240410
▲ LN51		4822 280 10305	RELAY,VB-18MBU-565-UL3	LY20180020
L701		4822 157 70022	AIR COIL,SPK CHOCK	ML08010030
L702		4822 157 70022	AIR COIL,SPK CHOCK	ML08010030
L751		4822 157 70022	AIR COIL,SPK CHOCK	ML08010030
			P704-MISCELLANEOUS	
			FUSE,5A 250V BS LISTED	FS10500850
			FUSE,6.3A 125V FTB	FS10630350
			FUSE,5A 250V BS LISTED	FS10500850
			FUSE,6.3A 125V FTB	FS10630350
			RELAY,VB-18MBU-565-UL3	LY20180020
			RELAY,VB-18MBU-565-UL3	LY20180020
			RELAY,MR62-24SR 24V	LY20240410
			RELAY,VB-18MBU-565-UL3	LY20180020
			AIR COIL,SPK CHOCK	ML08010030
			AIR COIL,SPK CHOCK	ML08010030
			AIR COIL,SPK CHOCK	ML08010030
			P754-SPK TERMINAL CIRCUIT BOARD	
			P754-CAPACITORS	
C727				
Q734	KS	4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
C764	KS	4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310
C765	KS	4822 122 30043	CER.,0.01μF +80%-20% 50V	DK18103310

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▲ F760	K, KK, KS	4822 253 30415	P754-MISCELLANEOUS FUSE,1.6 A 250V BS LISTED	FS10160850
▲ F760	U		FUSE,2A 125V UL,CSA,MITI FBT	FS10200350
▲ F761	K, KK, KS	4822 253 30415	FUSE,1.6 A 250V BS LISTED	FS10160850
▲ F761	U		FUSE,2A 125V UL,CSA,MITI FBT	FS10200350
▲ F762	K, KK, KS	4822 253 30415	FUSE,1.6 A 250V BS LISTED	FS10160850
▲ F762	U		FUSE,2A 125V UL,CSA,MITI FBT	FS10200350
▲ F763	K, KK, KS	4822 253 30415	FUSE,1.6 A 250V BS LISTED	FS10160850
▲ F763	U		FUSE,2A 125V UL,CSA,MITI FBT	FS10200350
J704			TERMINAL,SPK 4P	YT01040790
J751			TERMINAL,SPK 6P	YT01060020