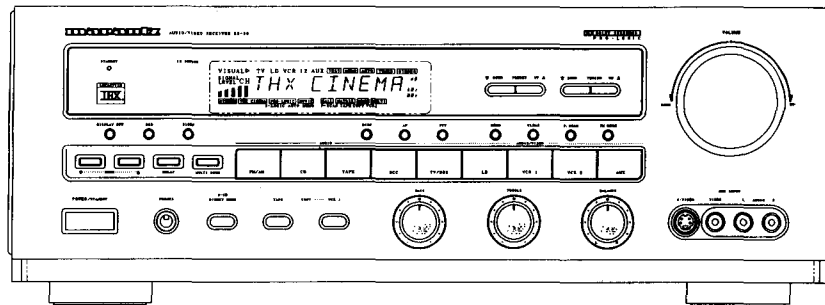


# Service Manual

74 SR96/02B  
SR-96 U, K, KK  
Audio/Video Receiver



The following marks found in the parts list of this manual identify the models as follows.

Please confirm the product serial number before repair.

Example : MZ01 9642 02 0025

                  ↑                                  ↑  
                  Service Code      Lot Number

[TACT] :Service Code MZ00 - MZ04 (Lot No. 01 - 13)  
(with Tact type mains switch)

[MOMS] :Service Code MZ05 or later (Lot No. 14 or later)  
(with Manual Operated Mechanical type mains switch)

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

# marantz®

## model SR-96

## 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.

<p><b>USA</b></p> <p><b>MARANTZ AMERICA, INC.</b> 440 MEDINAH ROAD ROSELLE, ILLINOIS 60172- 2330 USA PHONE : 630 - 307 - 3100 FAX : 630 - 307 - 2687</p>	<p><b>CANADA</b></p> <p><b>LENBROOK INDUSTRIES LIMITED</b> 633 GRANITE COURT, PICKERING, ONTARIO L1W 3K1 CANADA PHONE : 416-831-8333 FAX : 416-831-6936</p>	<p><b>EUROPE</b></p> <p><b>MARANTZ EUROPE B.V.</b> P.O.BOX 80002 BUILDING SFF2 5600 JB EINDHOVEN THE NETHERLANDS PHONE : +31 - 40 - 2732241 FAX : +31 - 40 - 2735578</p>
<p><b>PROFESSIONAL USA</b></p> <p><b>SUPERSCOPE TECHNOLOGIES, INC.</b> MARANTZ PROFESSIONAL PRODUCTS 1000 CORPORATE BLVD., SUITE D AURORA, ILLINOIS 60504 USA PHONE : 630 - 820 - 4800 FAX : 630 - 820 - 8103</p>	<p><b>PROFESSIONAL CANADA</b></p> <p><b>TC ELECTRONICS CANADA LTD</b> 540 FIRING AVE. BAIE D'URFÉ, QUEBEC H9X 3T2 CANADA PHONE : 514 - 457 - 4044 FAX : 514 - 457 - 5524</p>	<p><b>TRADING</b></p> <p><b>MARANTZ EUROPE B,V,</b> P.O.BOX 80002 BUILDING SFF2 5600 JB EINDHOVEN THE NETHERLANDS PHONE : +31 - 40 - 2732241 FAX : +31 - 40 - 2735578</p>
<p><b>AUSTRALIA</b></p> <p><b>MARANTZ AUSTRALIA</b> 3 Figtree Drive Australia Centre Homebush, NSW2140 AUSTRALIA PHONE : +61 2 742 8311 FAX : +61 2 764 3074</p>	<p><b>BRAZIL</b></p> <p><b>MARANTZ BRAZIL</b> Caixa Postal 21462 CEP 04698-970 Sao Paulo, SP, BRAZIL PHONE : 0800 - 123123 (Discagem Direta Gratuita) FAX : +55 11 534. 8988</p>	<p><b>HONG KONG</b></p> <p><b>FORWARD INTERNATIONAL CORP.LTD.</b> 15 TH FLOOR, REGENT CENTRE, 88 QUEEN'S ROAD, CENTRAL, H. K. PHONE : +852 521 - 0883 FAX : +852 521 - 7835</p>
<p><b>TAIWAN</b></p> <p><b>PAI-YUING CO., LTD.</b> 6 TH FL NO, 148 SUNG KIANG ROAD, TAIPEI, 10429, TAIWAN R.O.C. PHONE : +886 (2) 5221304 - 8 FAX : +886 (2) 5630415</p>	<p><b>THAILAND</b></p> <p><b>MRZ STANDARD CO., LTD,</b> 746 - 750 WANGBURAPA BANGKOK 10200 THAILAND PHONE : +66 2222 9181 FAX : +66 2225 8871</p>	<p><b>MALAYSIA</b></p> <p><b>WO KEE HONG ELECTRONICS SDN. BHD.</b> NO. 102 JALAN SS 21/35, DAMANSARA UTAMA, 47400 PETALING JAYA SELANGOR DARUL EHSAN, MA LAYS IA PHONE : +60 3 - 7184666 FAX : +60 3 - 7173828</p>
<p><b>JAPAN Technical</b></p> <p><b>MARANTZ JAPAN INC.</b> 35-1, 7- chome, Sagamiono Sagamihara - shi, Kanagawa Japan PHONE : +81 427 44 7950 FAX : +81 427 48 0889</p>	<p><b>日本マランツ株式会社</b></p> <p>本社 〒228 神奈川県相模原市相模大野7-35-1 営業本部 〒150 東京都渋谷区恵比寿南1-11-9</p>	<p><b>SINGAPORE</b></p> <p><b>FORWARD MARKETING (SINGAPORE) PTE. LTD.</b> 29, LENG KEE ROAD SINGAPORE 159099, PHONE : +65 475 - 4555 FAX : +65 475 - 8623</p>

### 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 $\mu$ 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 (/02B version)
Image Rejection .....	98 MHz 50dB (U version) 98 MHz 70 dB (/02B version)
Tuner Output Level .....	1 kHz, $\pm$ 75 kHz Dev 800mV (U version) 1 kHz, $\pm$ 40 kHz Dev 800mV (/02B version)

## AM TUNER SECTION

Frequency Range .....	520 – 1710 kHz (U version) MW: 531 – 1602 kHz (/02B version) LW : 152 – 282 kHz (/02B version)
Signal to Noise Ratio .....	50 dB
Usable Sensitivity .....	Loop 500 $\mu$ V
Distortion .....	1 kHz, 30% Mod. 0.5%
Selectivity .....	$\pm$ 20 kHz 70 dB (U version) $\pm$ 18 kHz 70 dB (/02B 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 90W / Ch
THD Front (20 Hz – 20 kHz) .....	8 ohms 0.05%
Input Sensitivity/Impedance	
Linear .....	220mV/40 kohms
Front Main In .....	1.5 V/20 kohms
Center Main In .....	1.5 V/20 kohms
Surround Main In .....	1.0 V/20 kohms
Signal to Noise Rate ( IHF A )	
Linear .....	82 dB
Dolby Surround Adjacent Channels Separation .....	50 dB

## VIDEO

Television Format .....	NTSC (U version) PAL/NTSC/SECAM (/02B 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

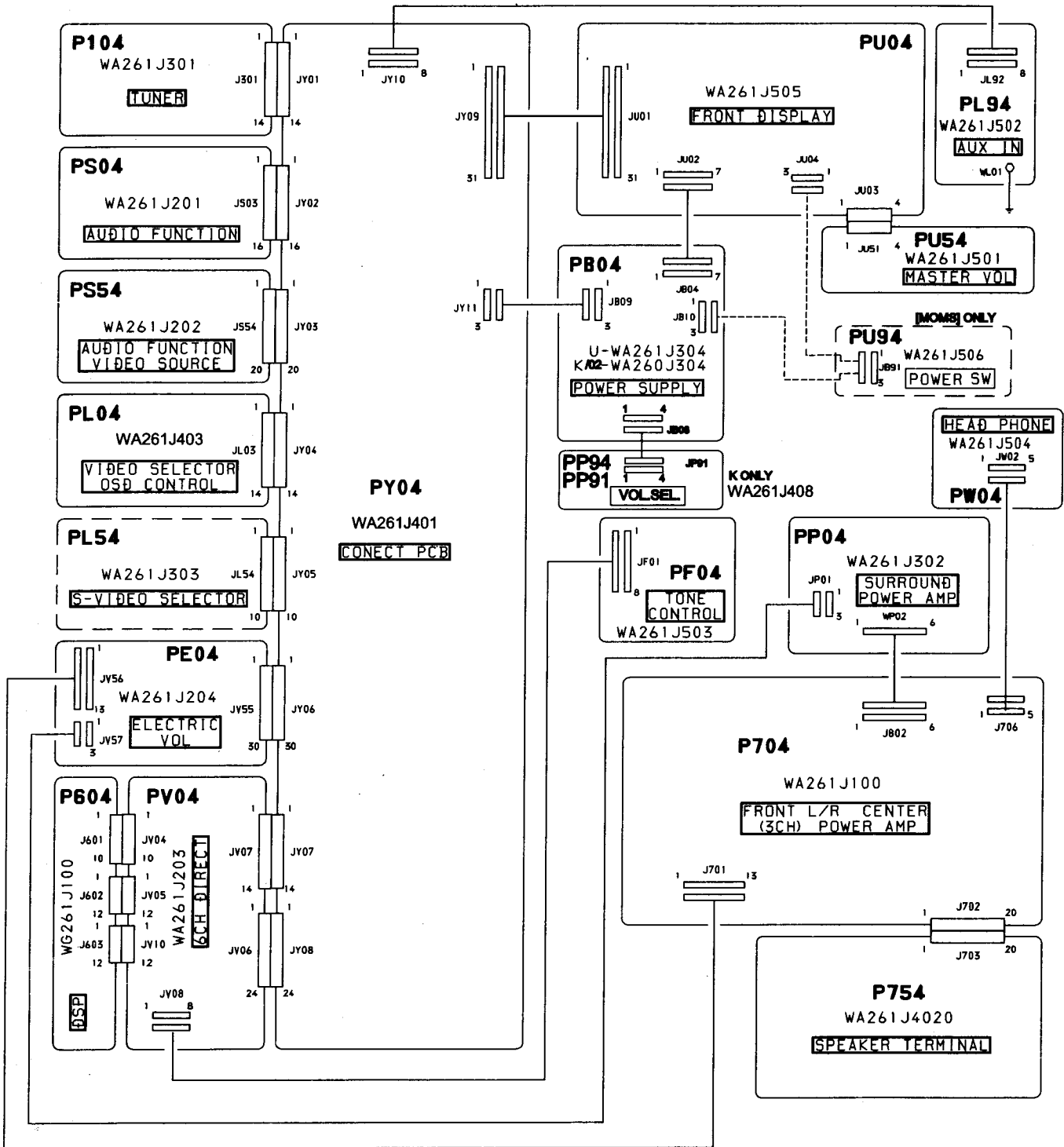
Power Requirement .....	AC 120V 60 Hz (U version) AC 230V 50 Hz (/02B version)
Power Consumption .....	700W
Dimension ( MAX )	
Width .....	17- $\frac{1}{4}$ inches (439 mm)
Height .....	6- $\frac{1}{4}$ inches (158 mm)
Depth .....	18 inches (458 mm)
Weight .....	31.7 lds. (14.4 kg)

## ACCESSORIES

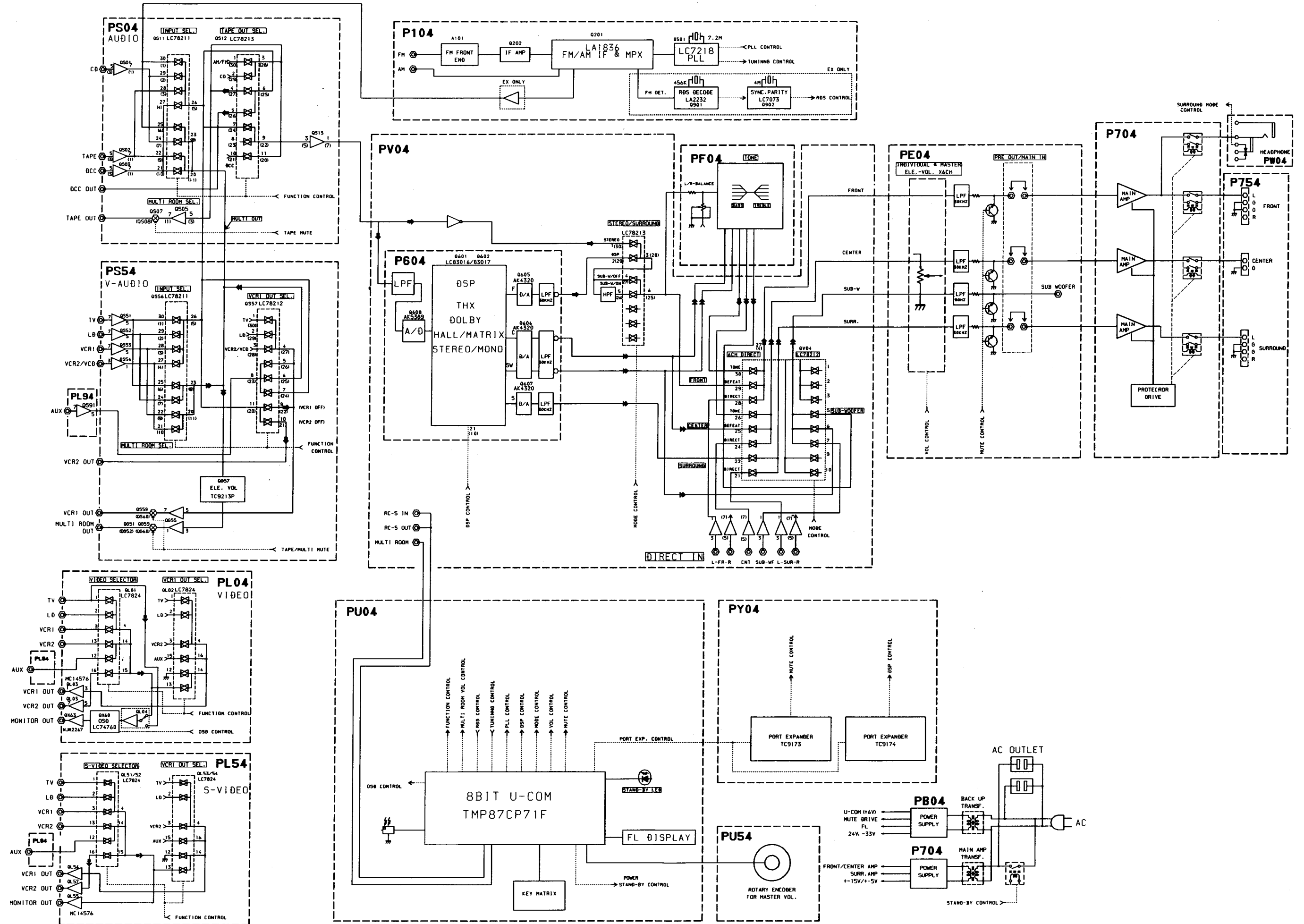
Remote Control Unit RC2000 (U version) .....	1
Remote Control Unit RC-96SR (/02B version) .....	1
AA-size batteries (U version) .....	4
AAA-size batteries (/02B version) .....	2
FM Feeder Antenna .....	1
FM Antenna Converter (U version only) .....	1
AM Loop Antenna .....	1

Specifications subject to change without prior notice.

## 2. WIRING DIAGRAM

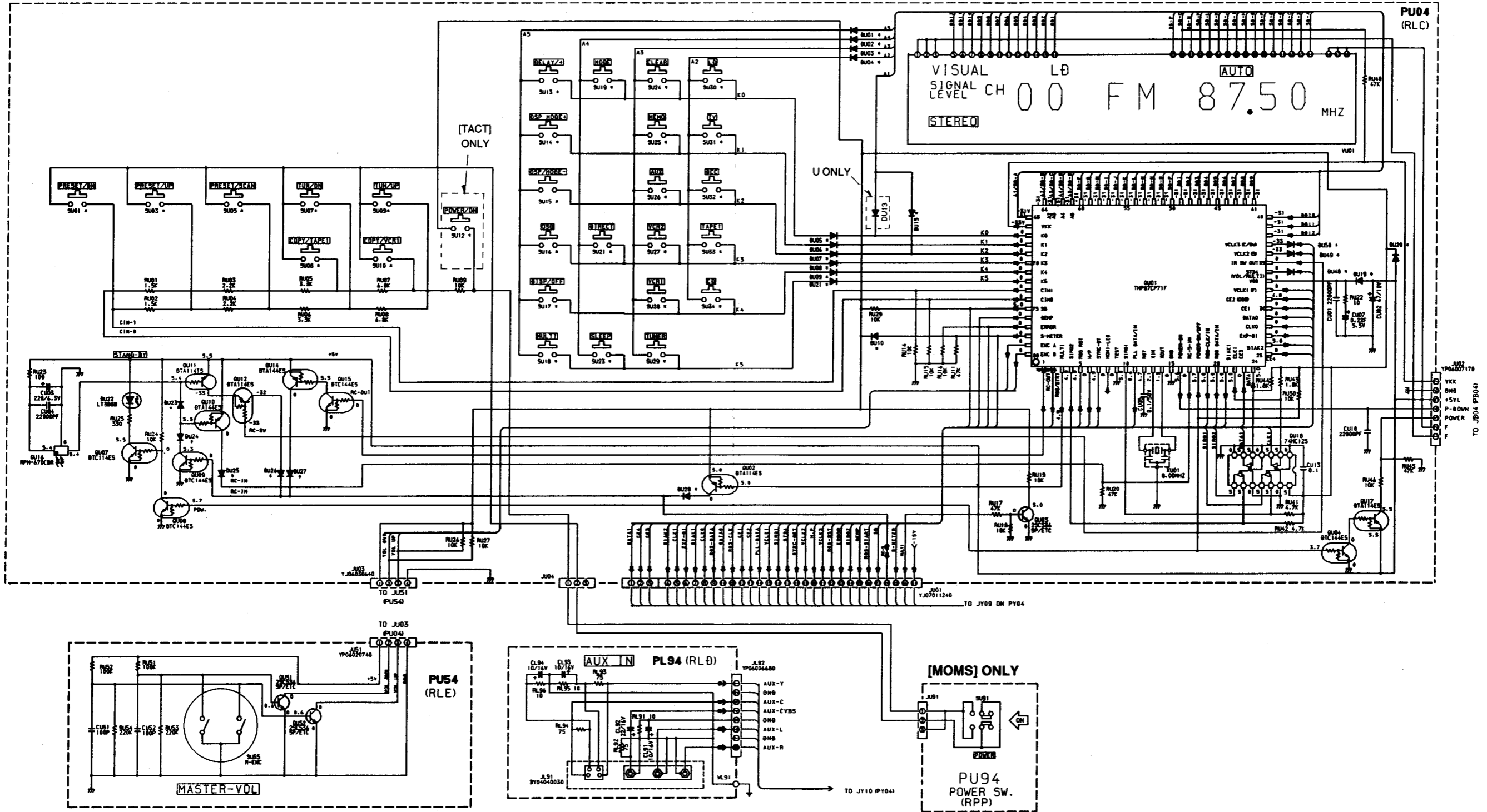


### 3. BLOCK DIAGRAM

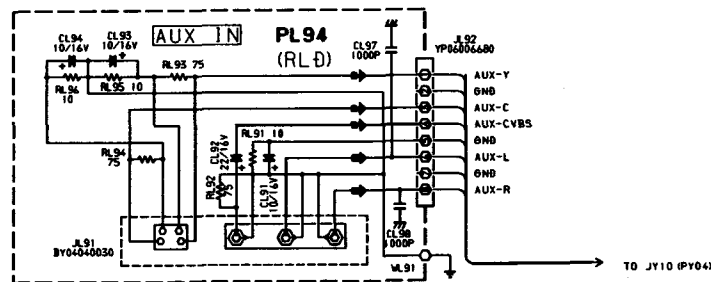
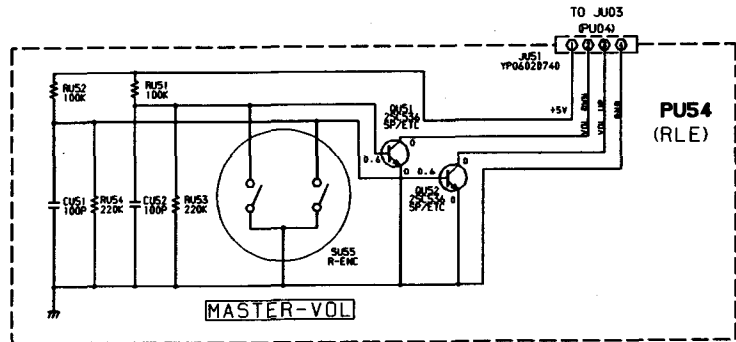
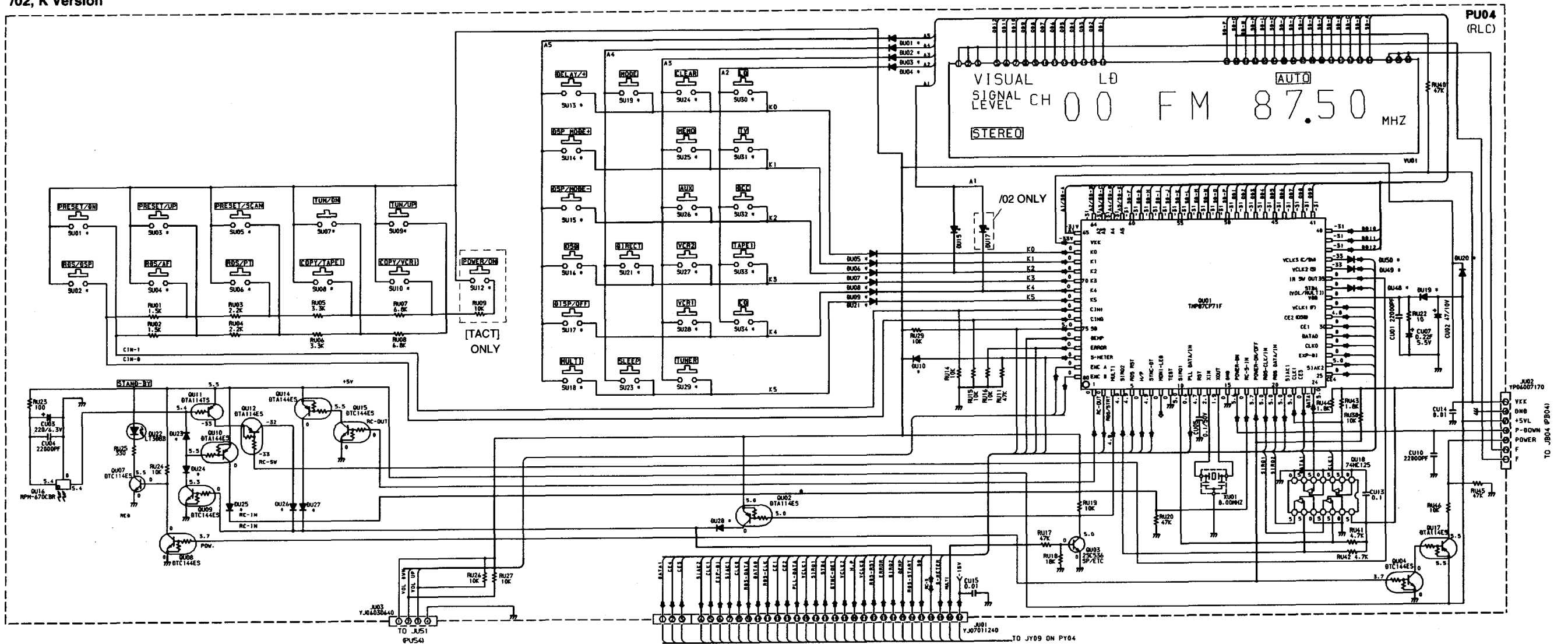


# 4. SCHEMATIC DIAGRAM AND PARTS LOCATION

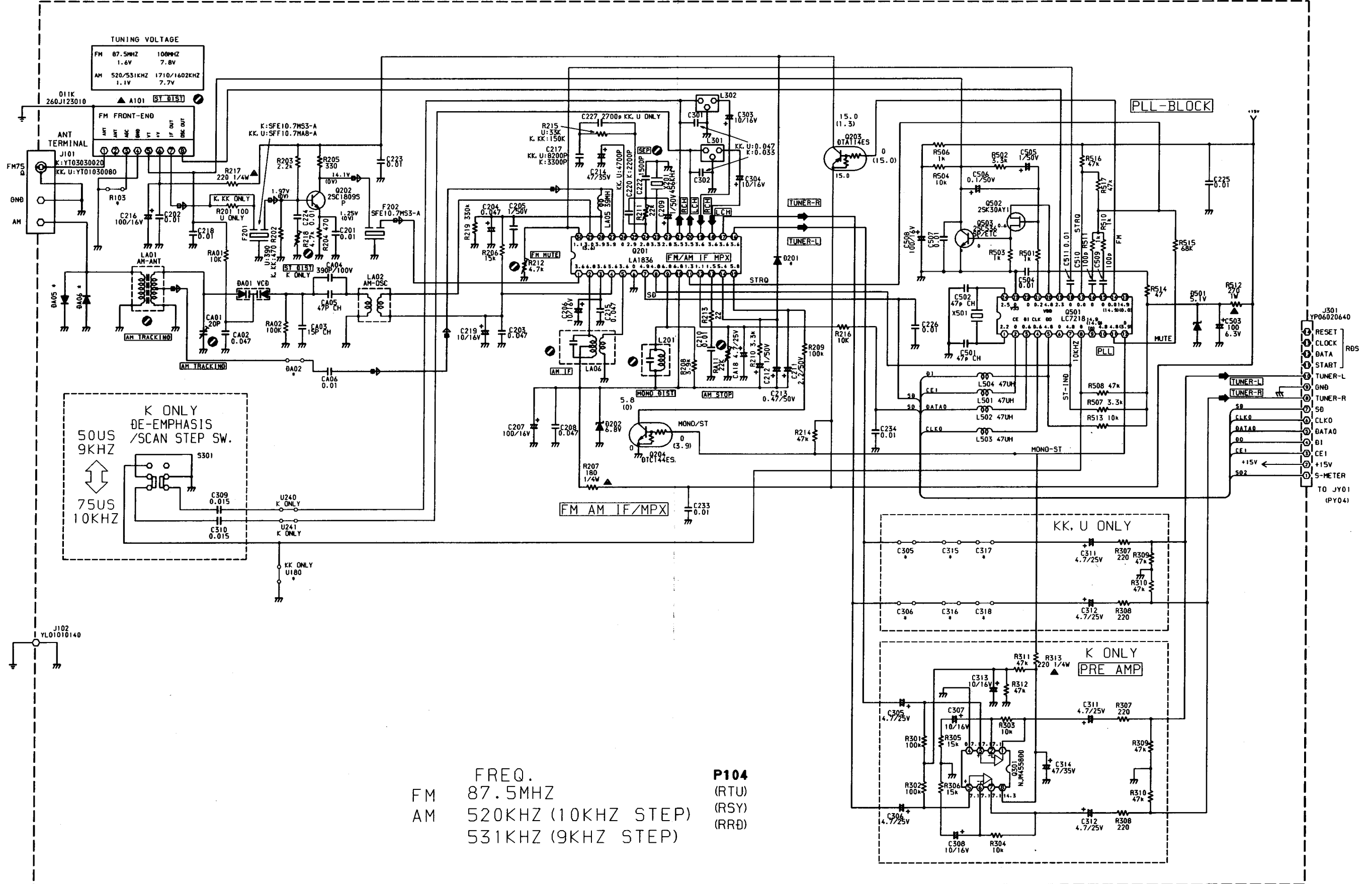
U, KK Version



/02, K Version



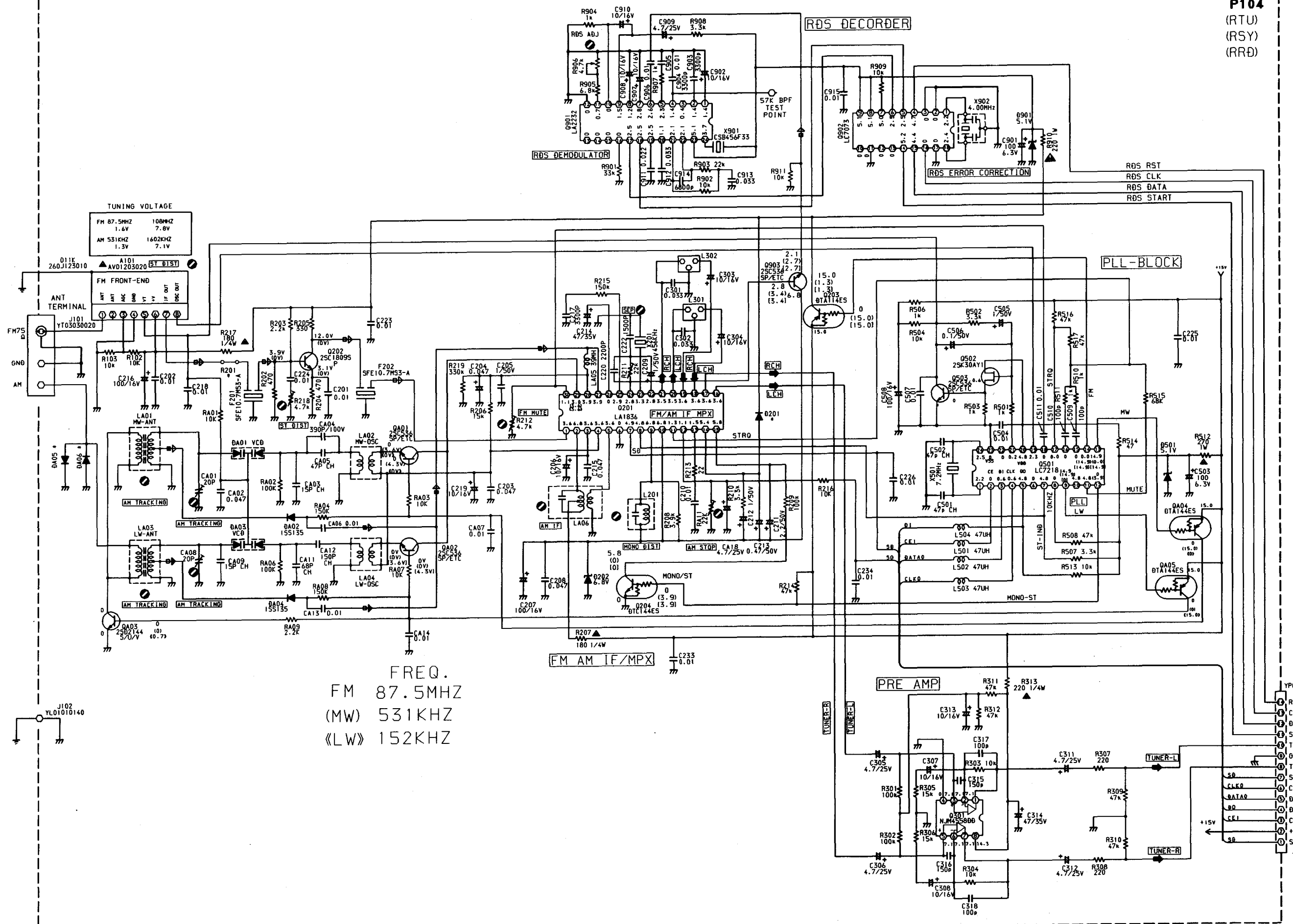
U, K, KK Version



	FREQ.	P104
FM	87.5MHZ	(RTU)
AM	520KHZ (10KHZ STEP)	(RSY)
AM	531KHZ (9KHZ STEP)	(RRD)

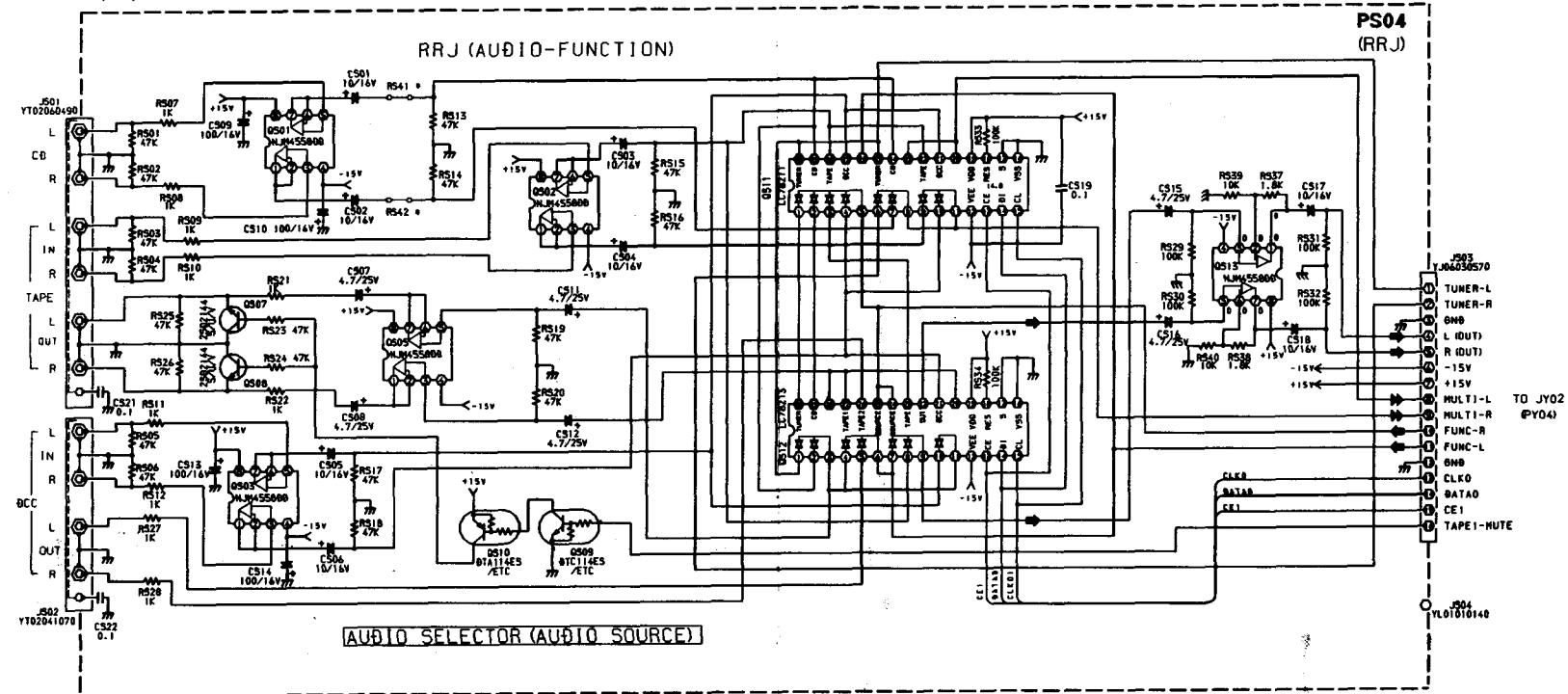
TUNER



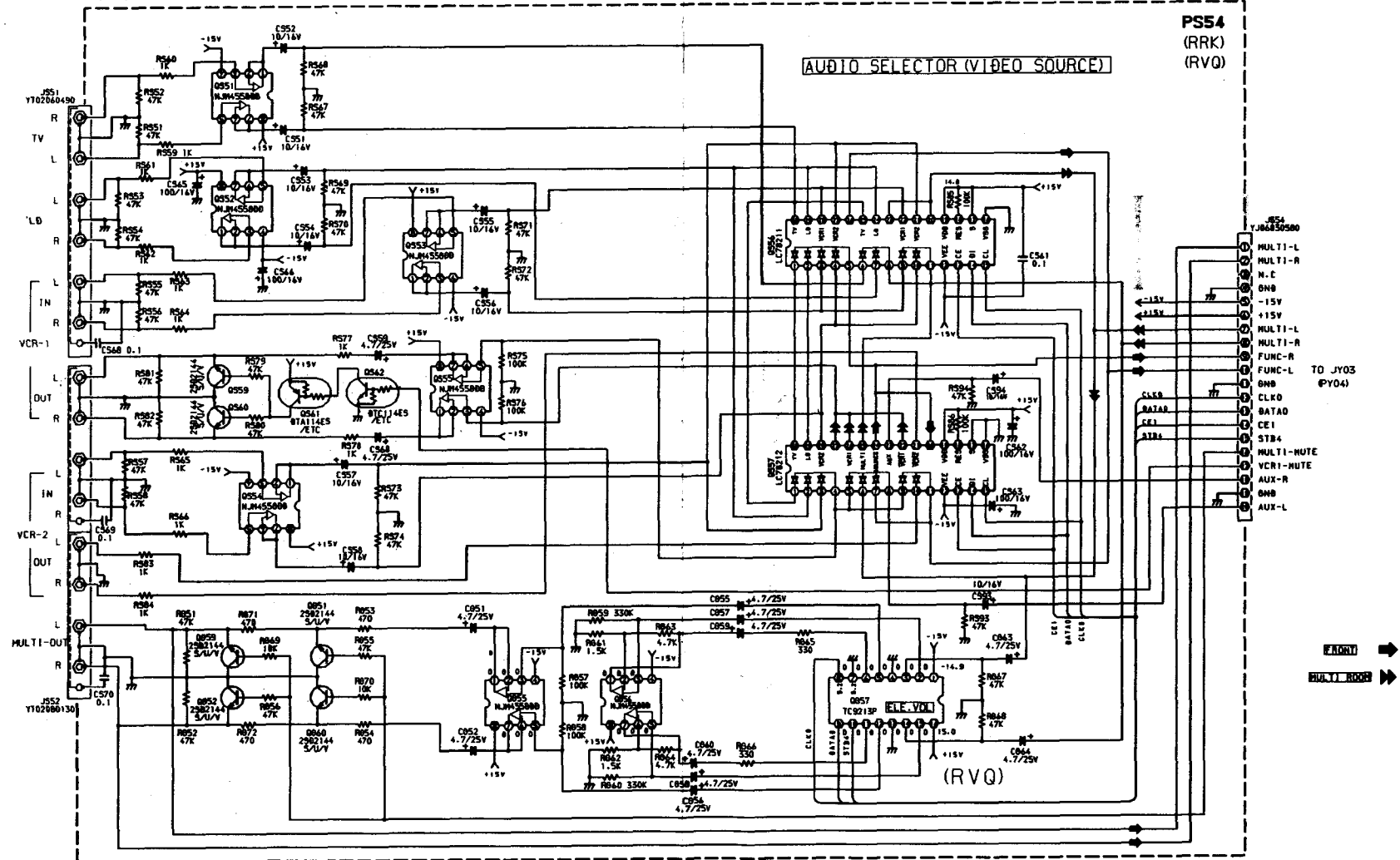


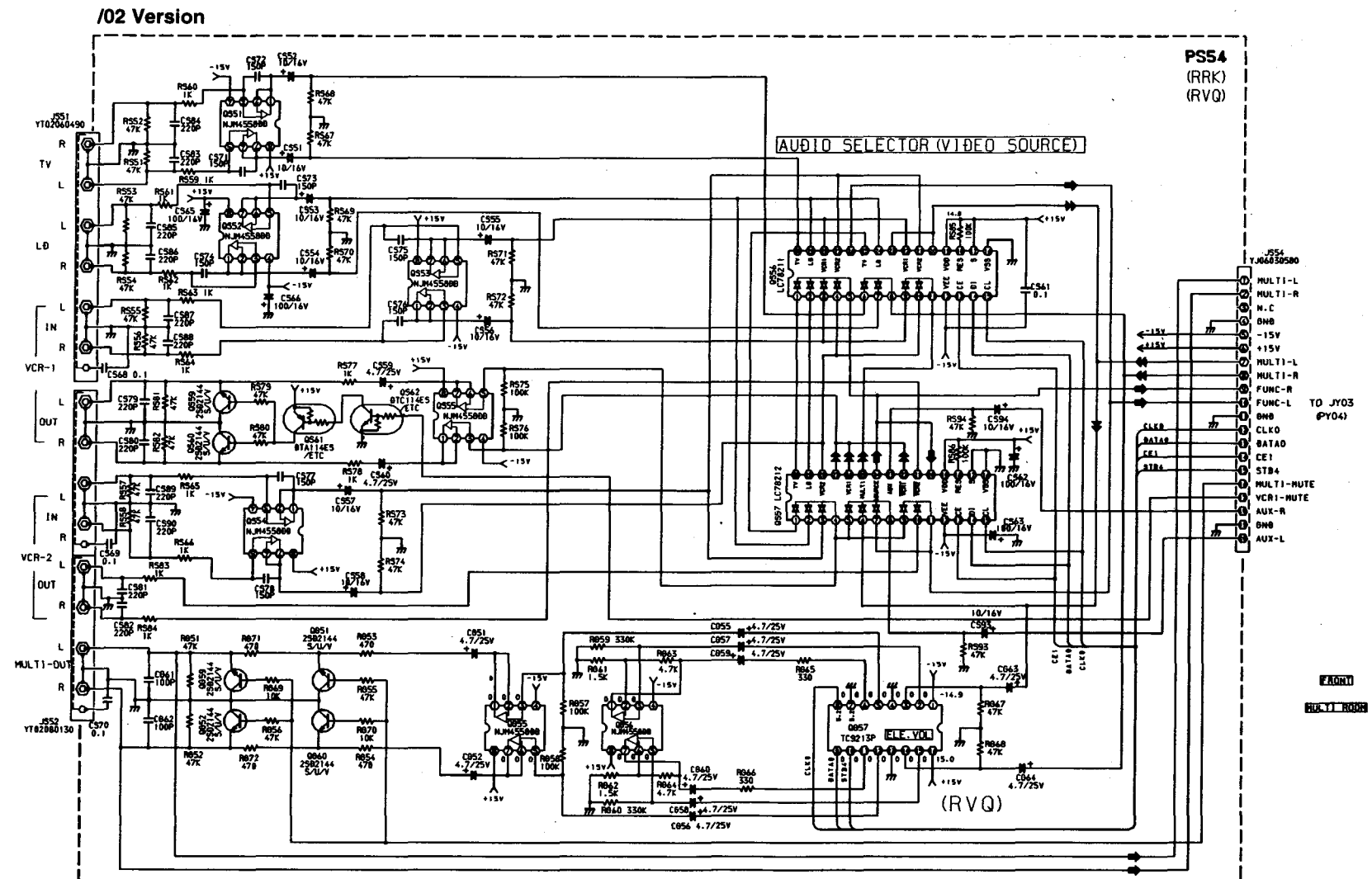
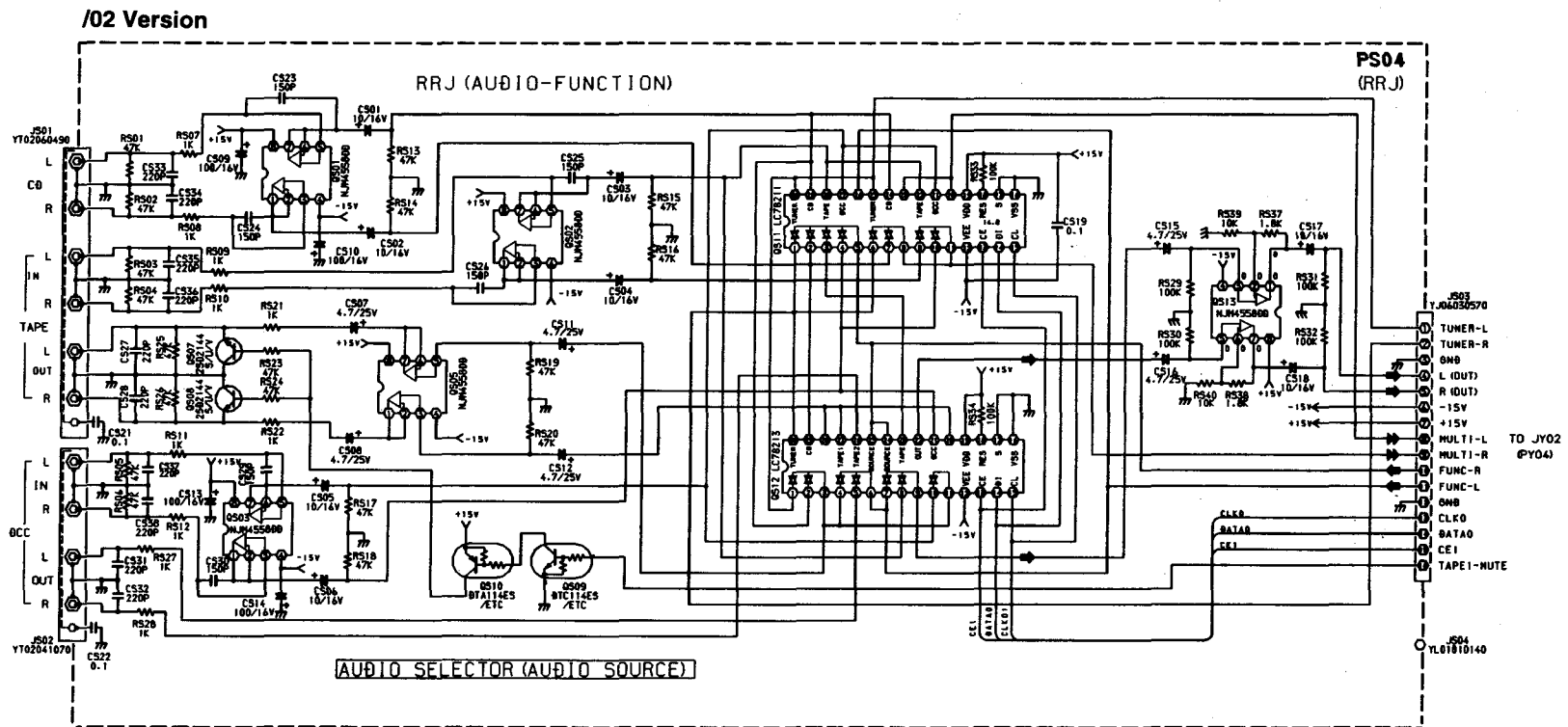
FREQ.  
FM 87.5MHZ  
(MW) 531KHZ  
(LW) 152KHZ

U, K, KK Version

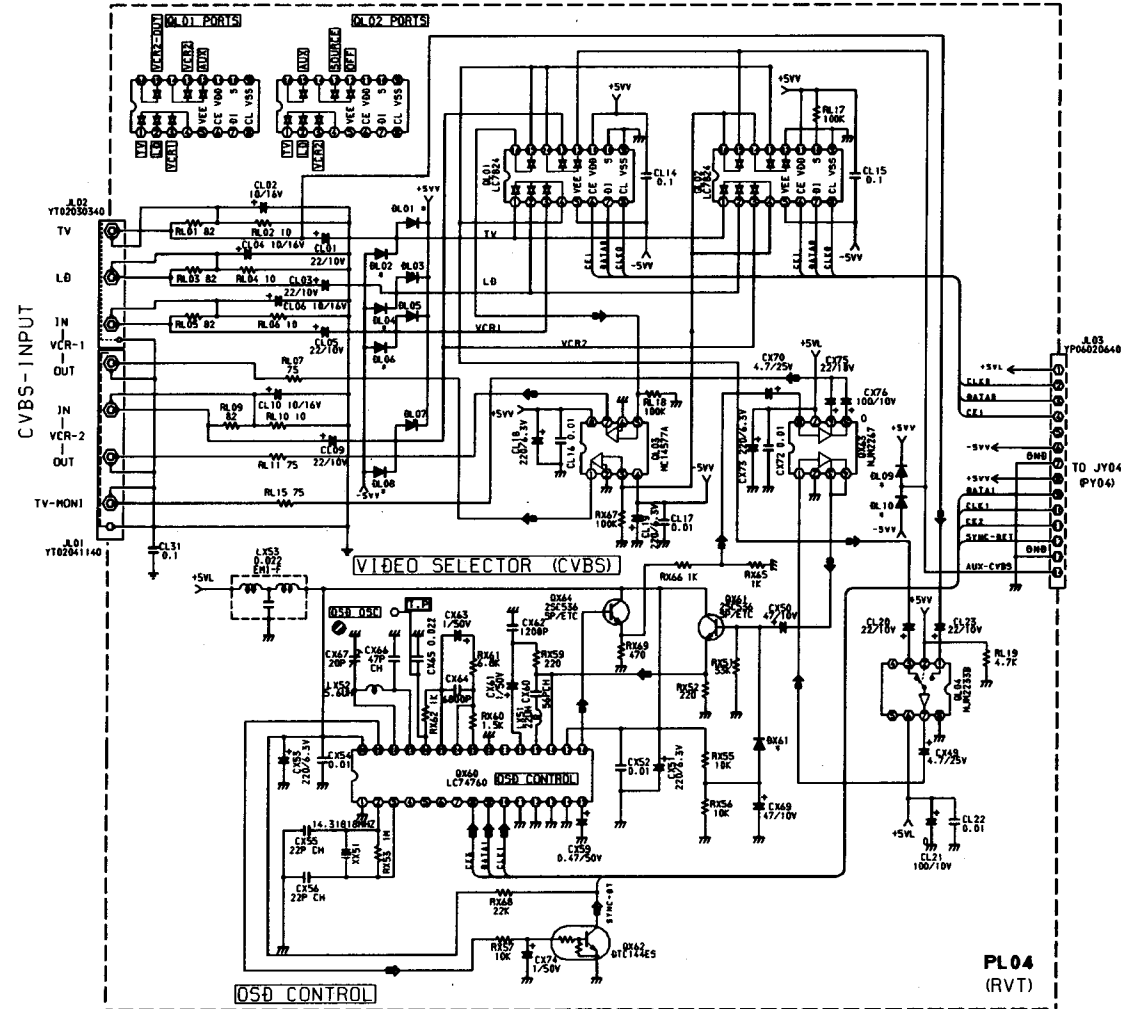


U, K, KK Version

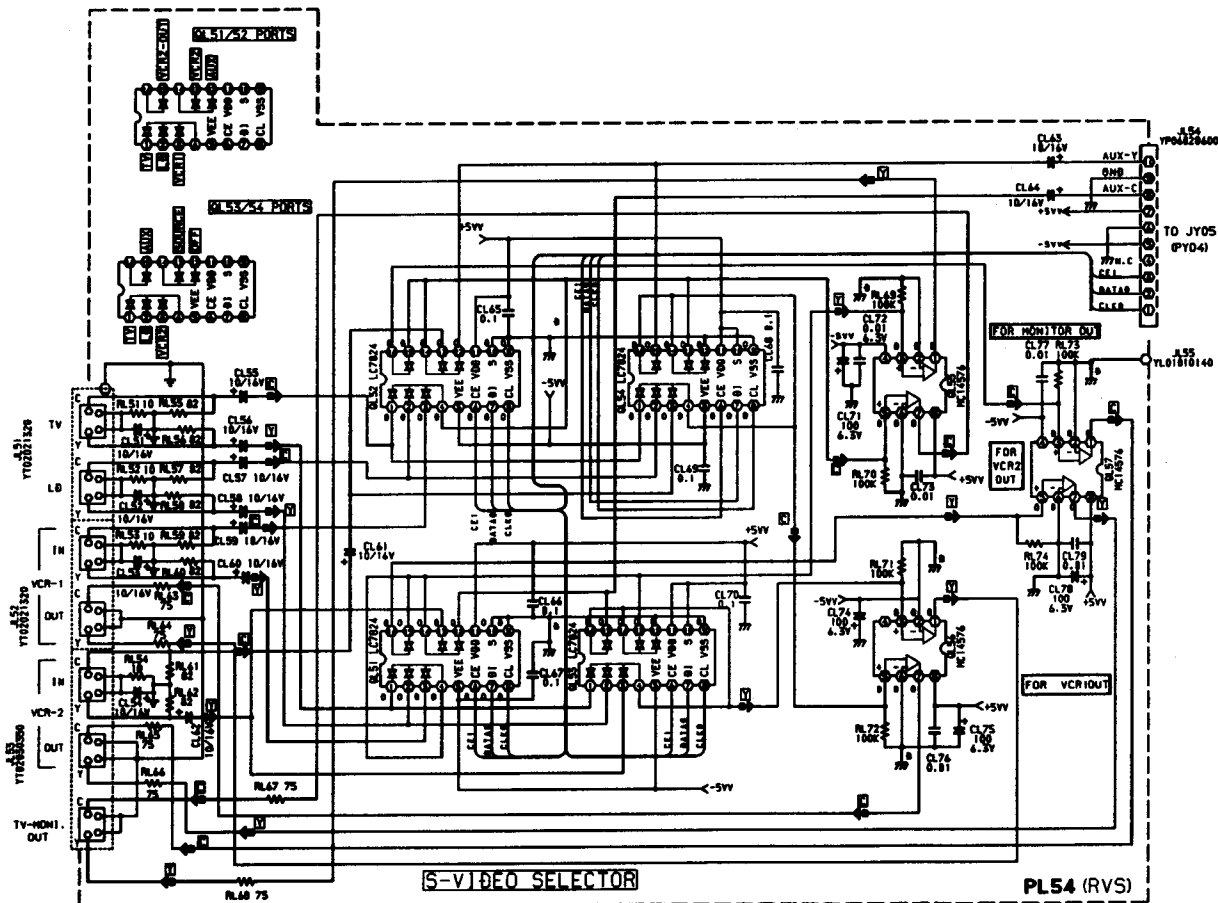
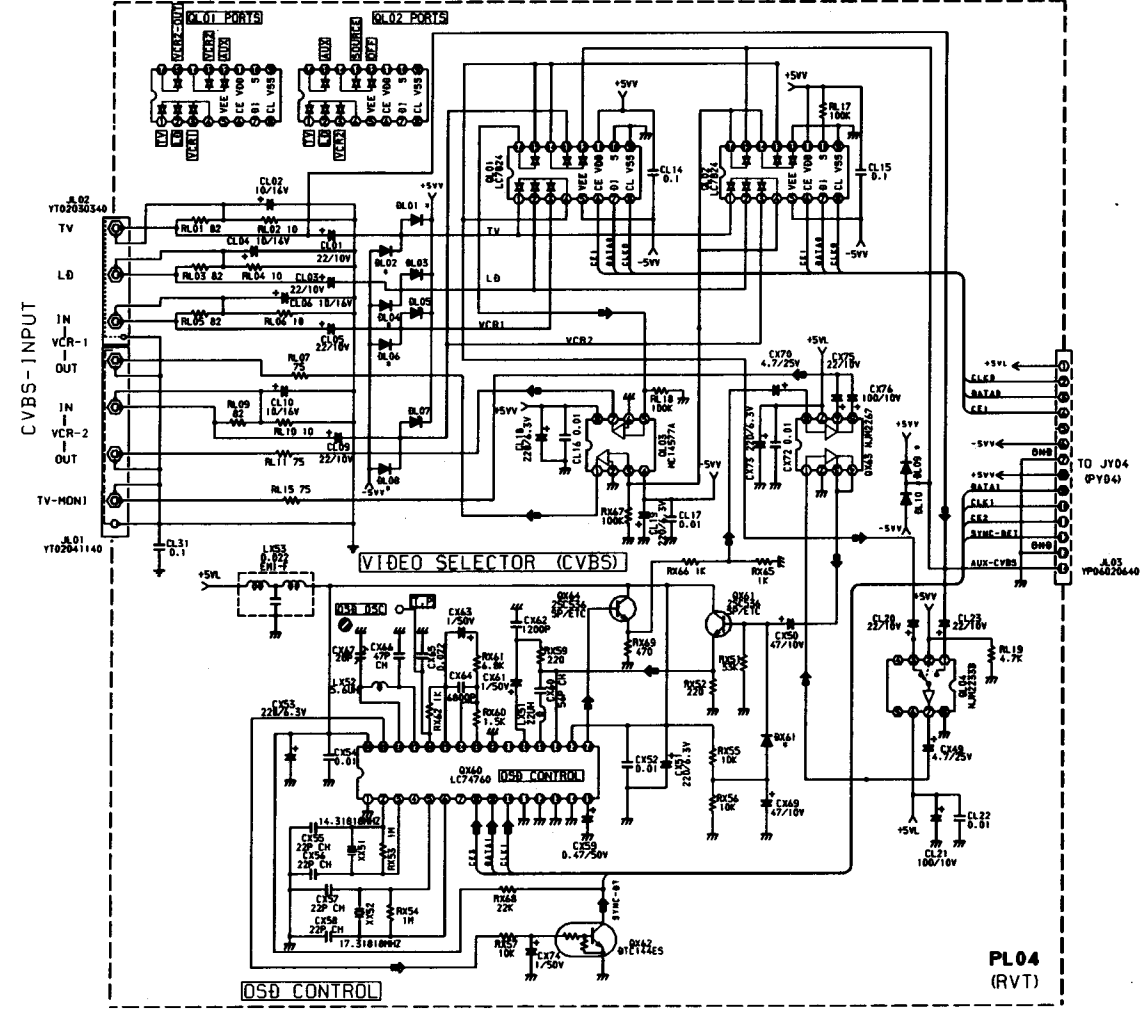


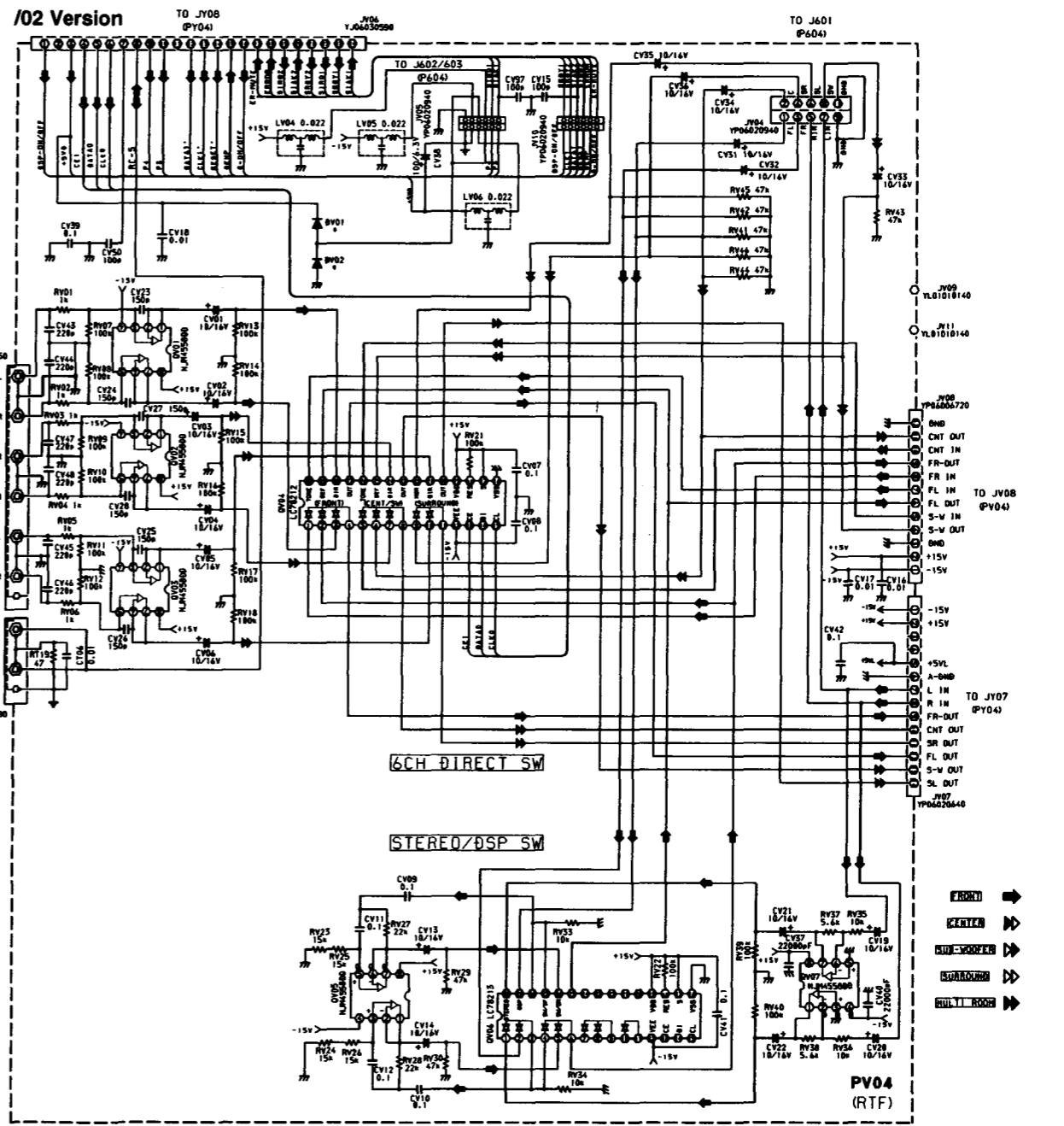
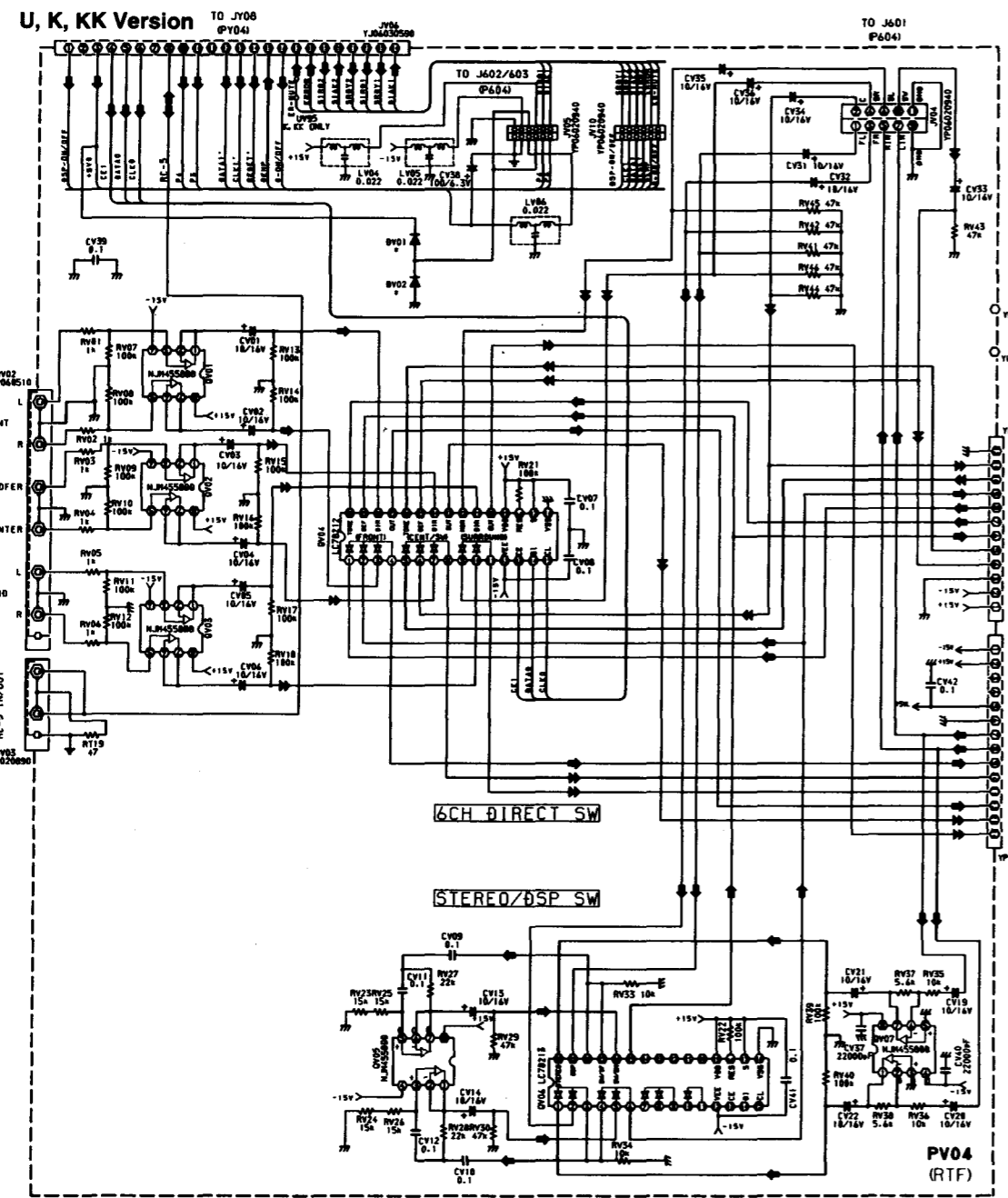
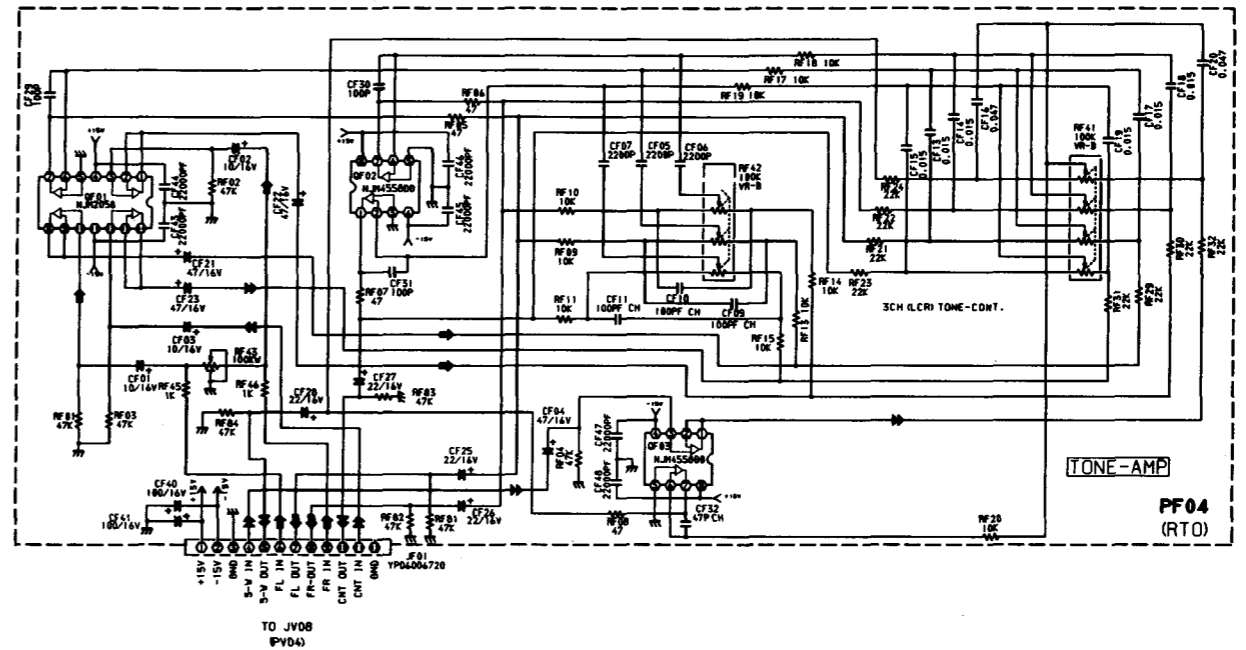


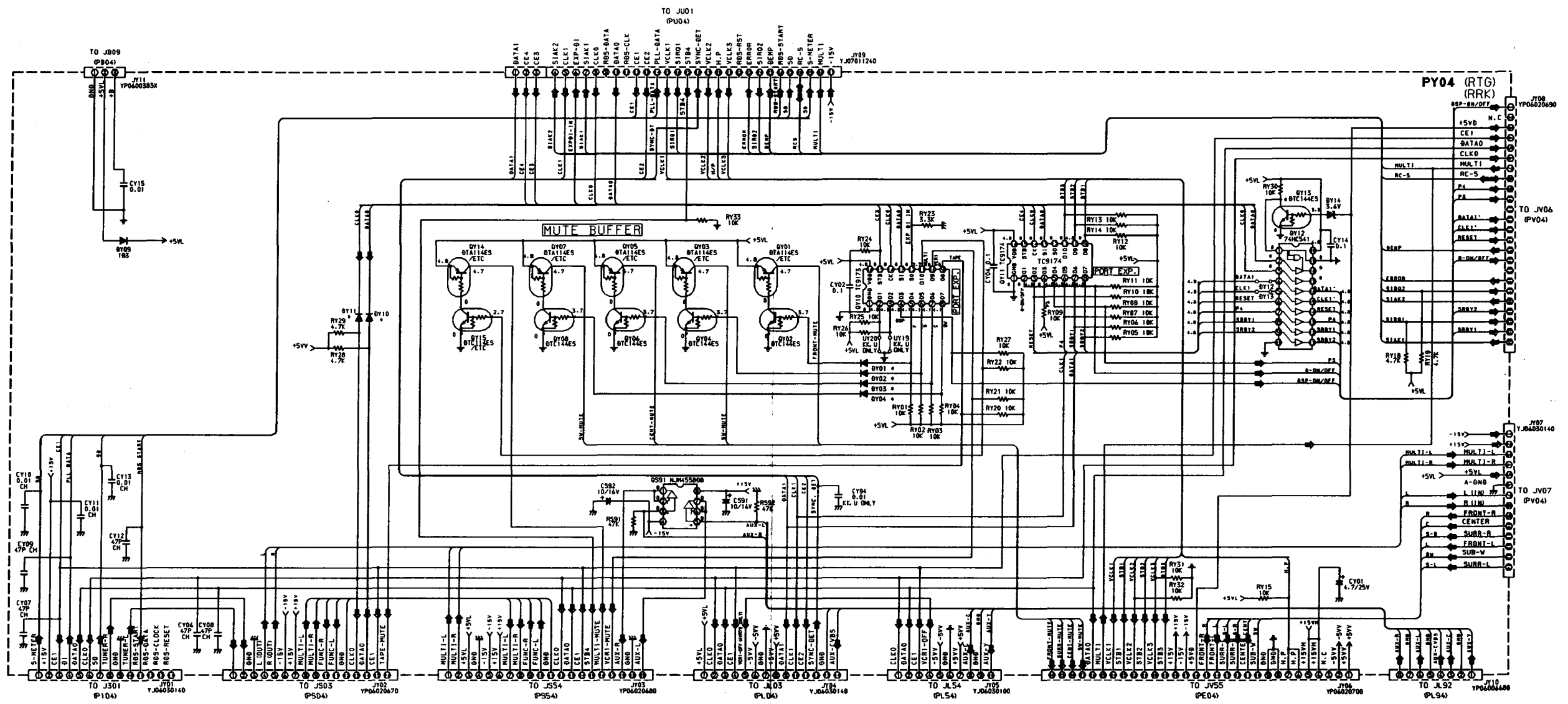
U, KK Version



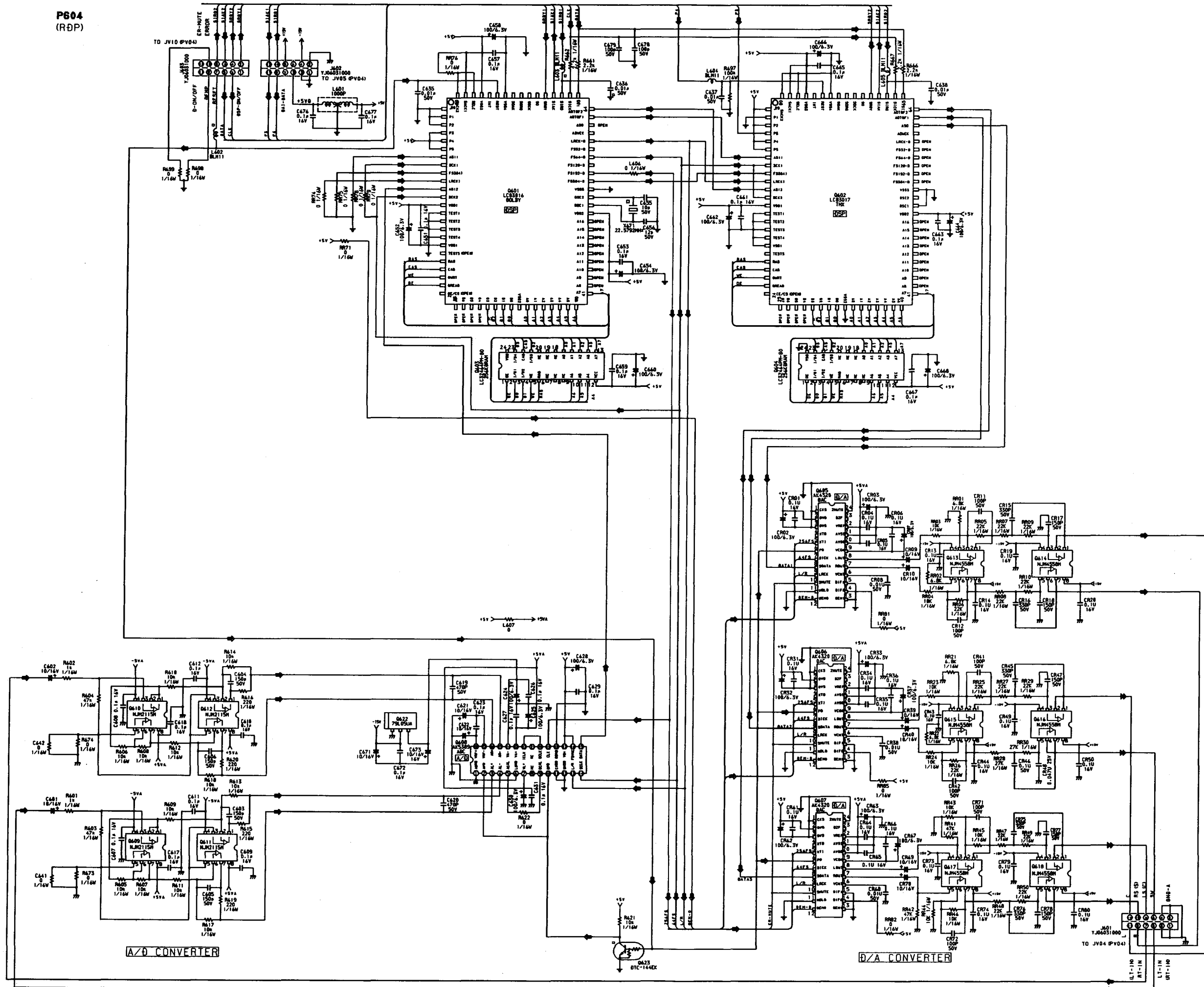
/02, K Version

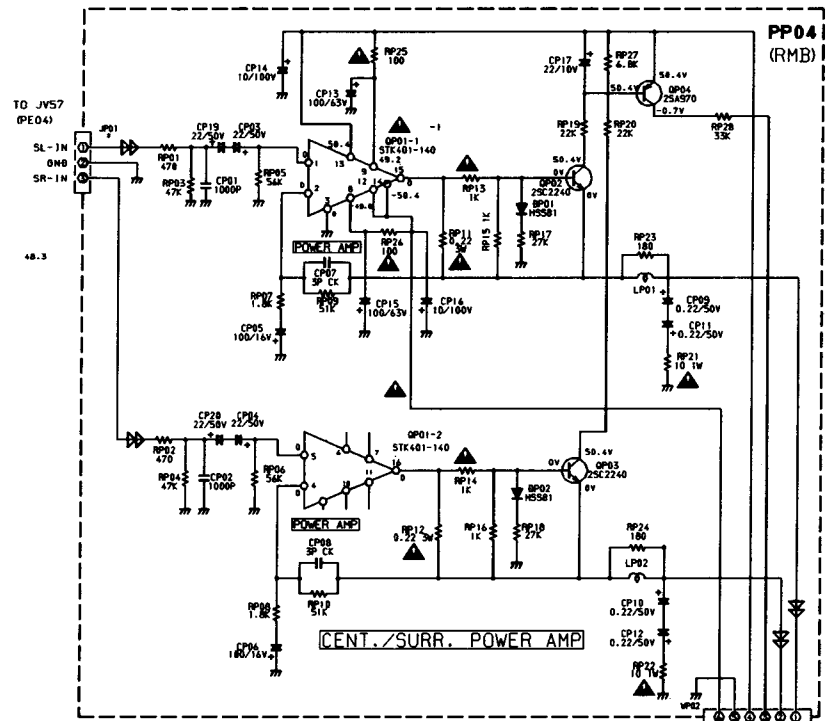




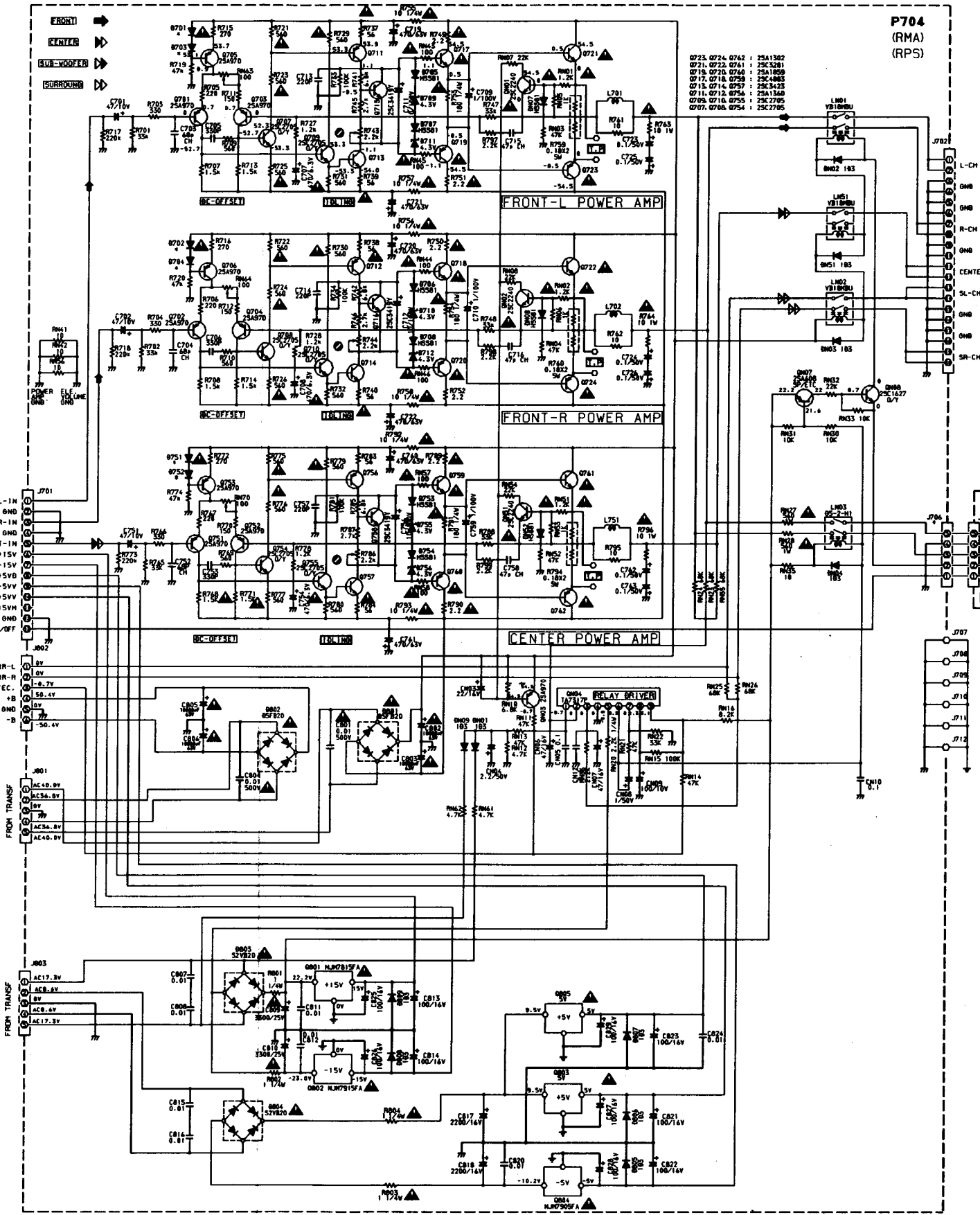


P604  
(RDP)

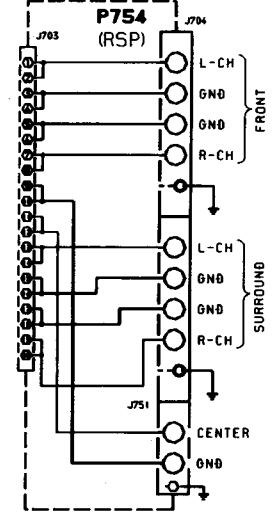




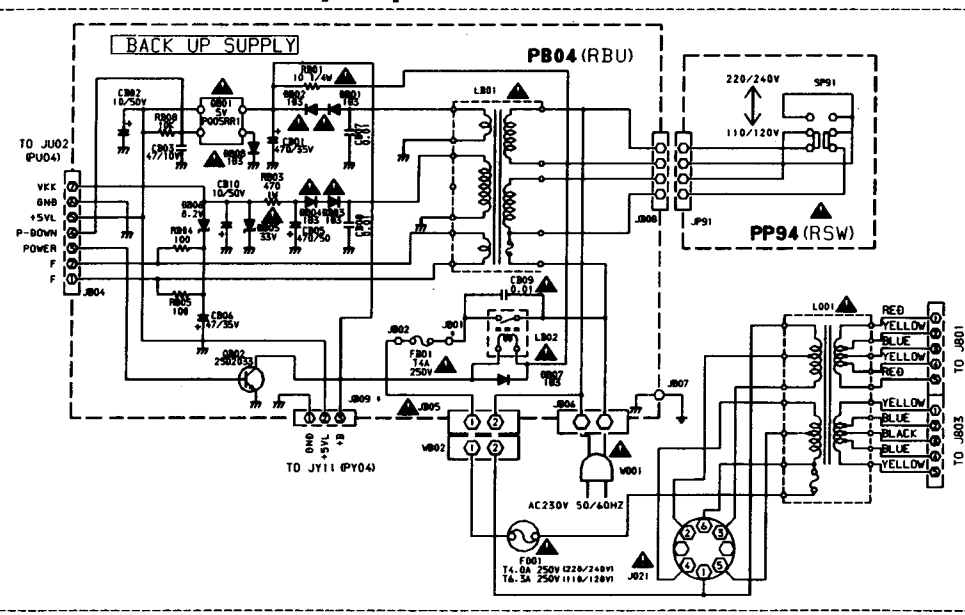
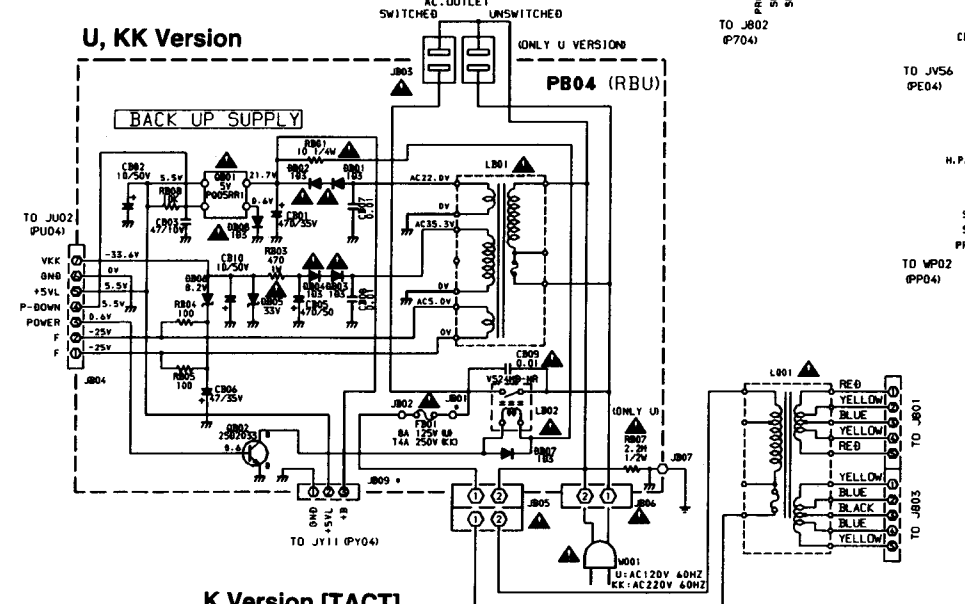
**U, K, KK Version**



**U, K, KK Version**

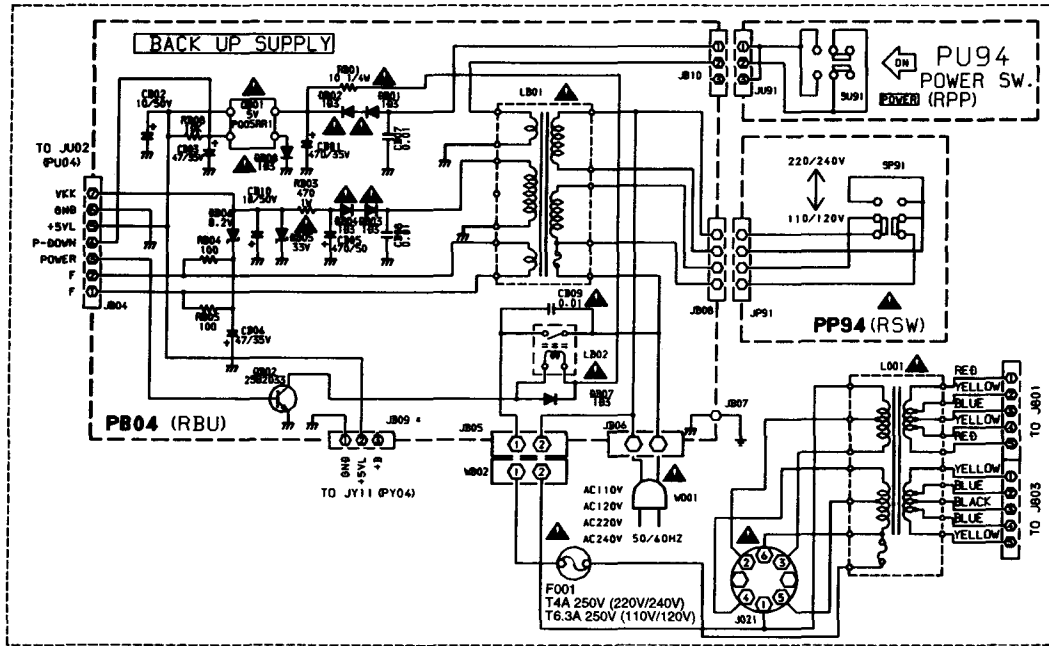


**U, K, KK Version**

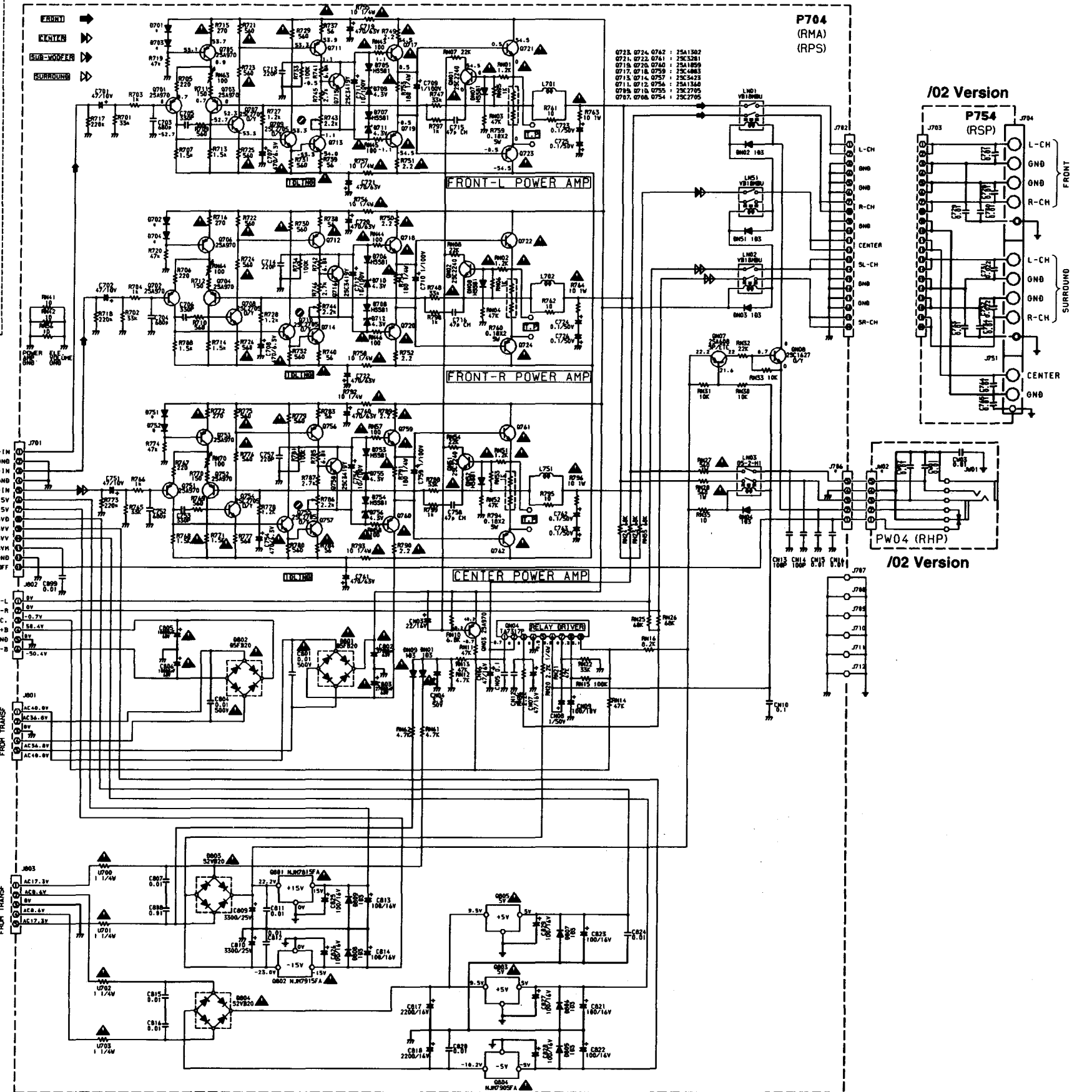




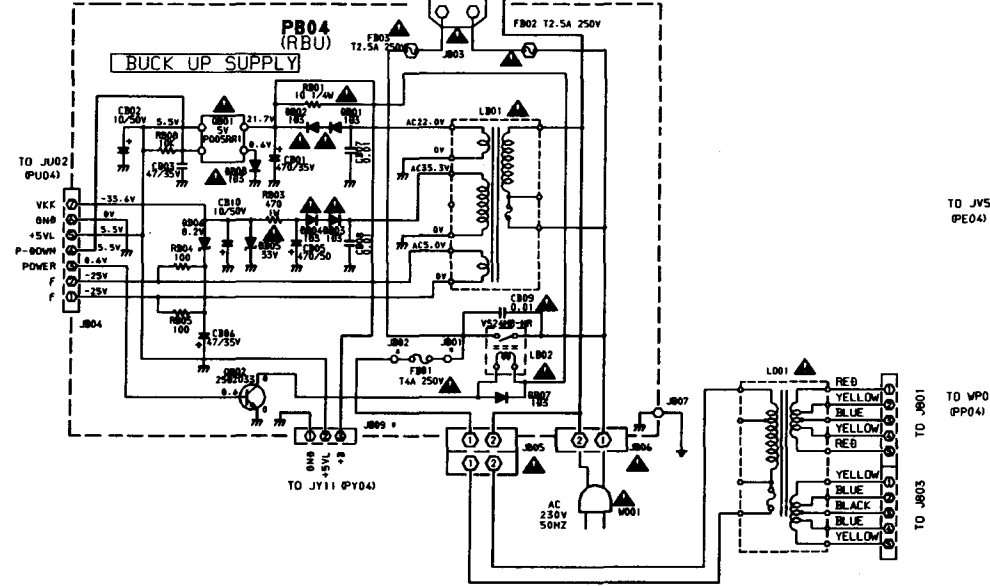
**K Version [MOMS]**



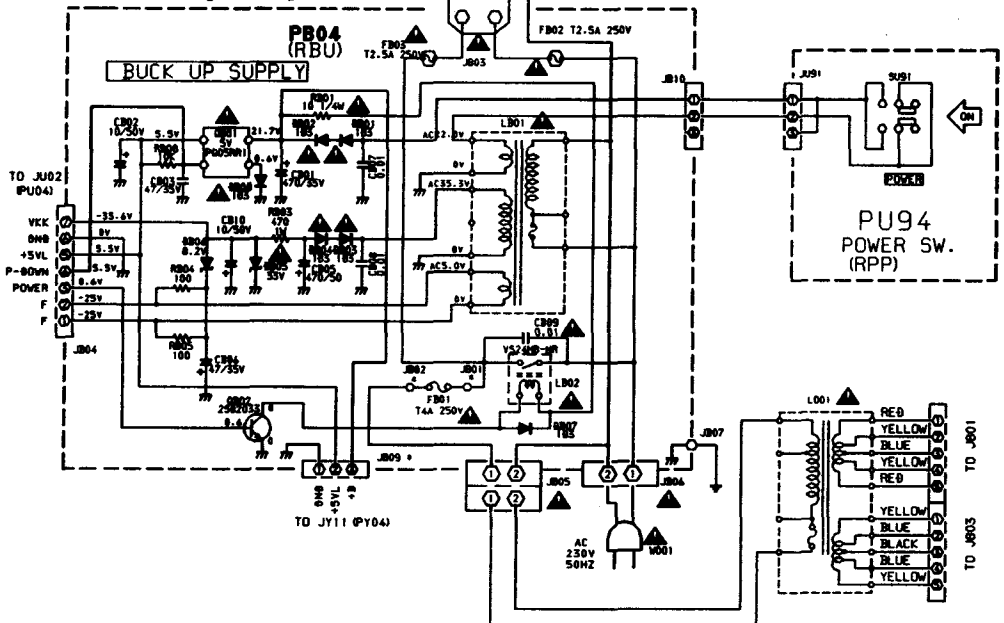
**/02 Version**



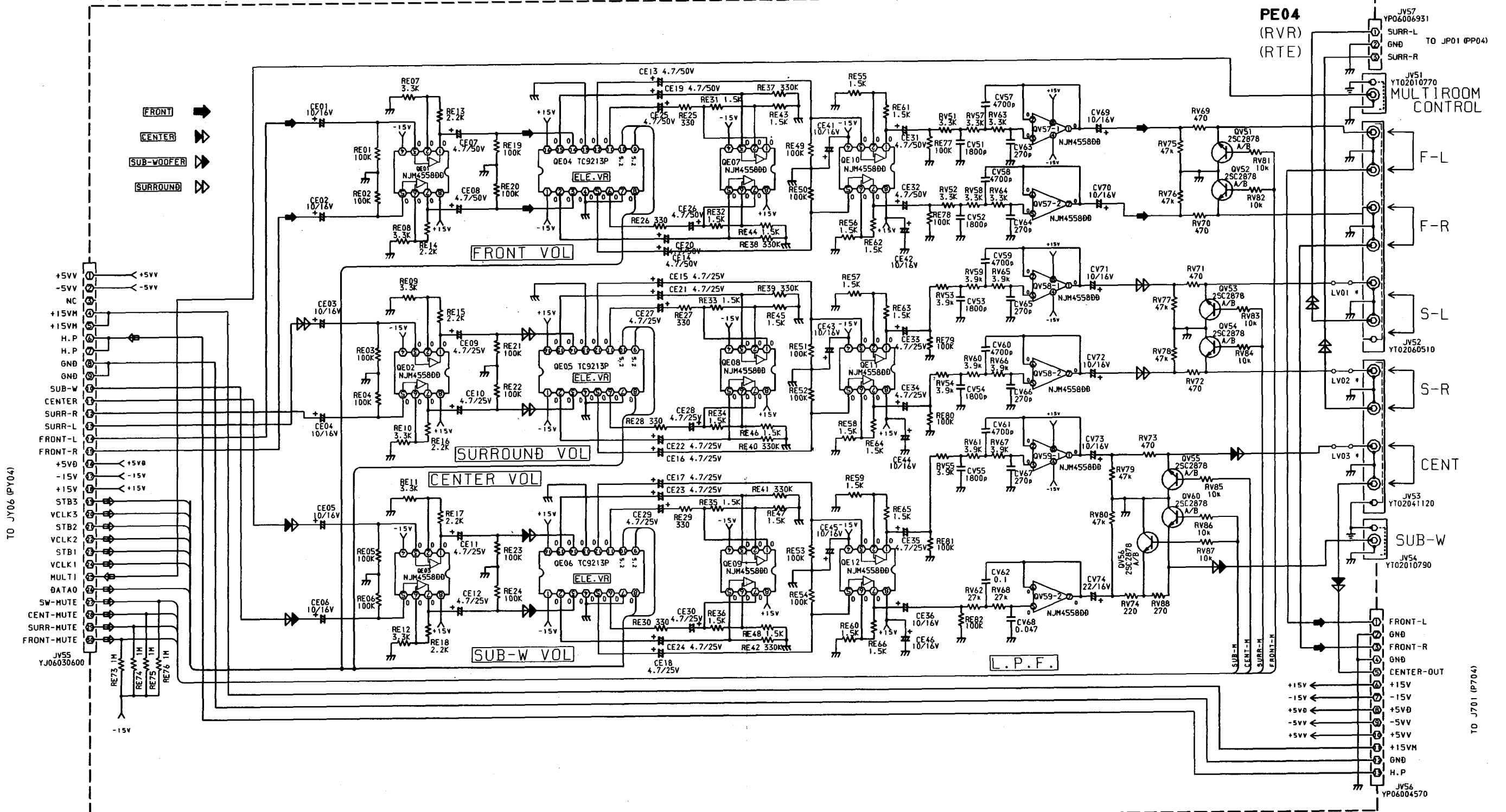
**/02 Version [TACT]**



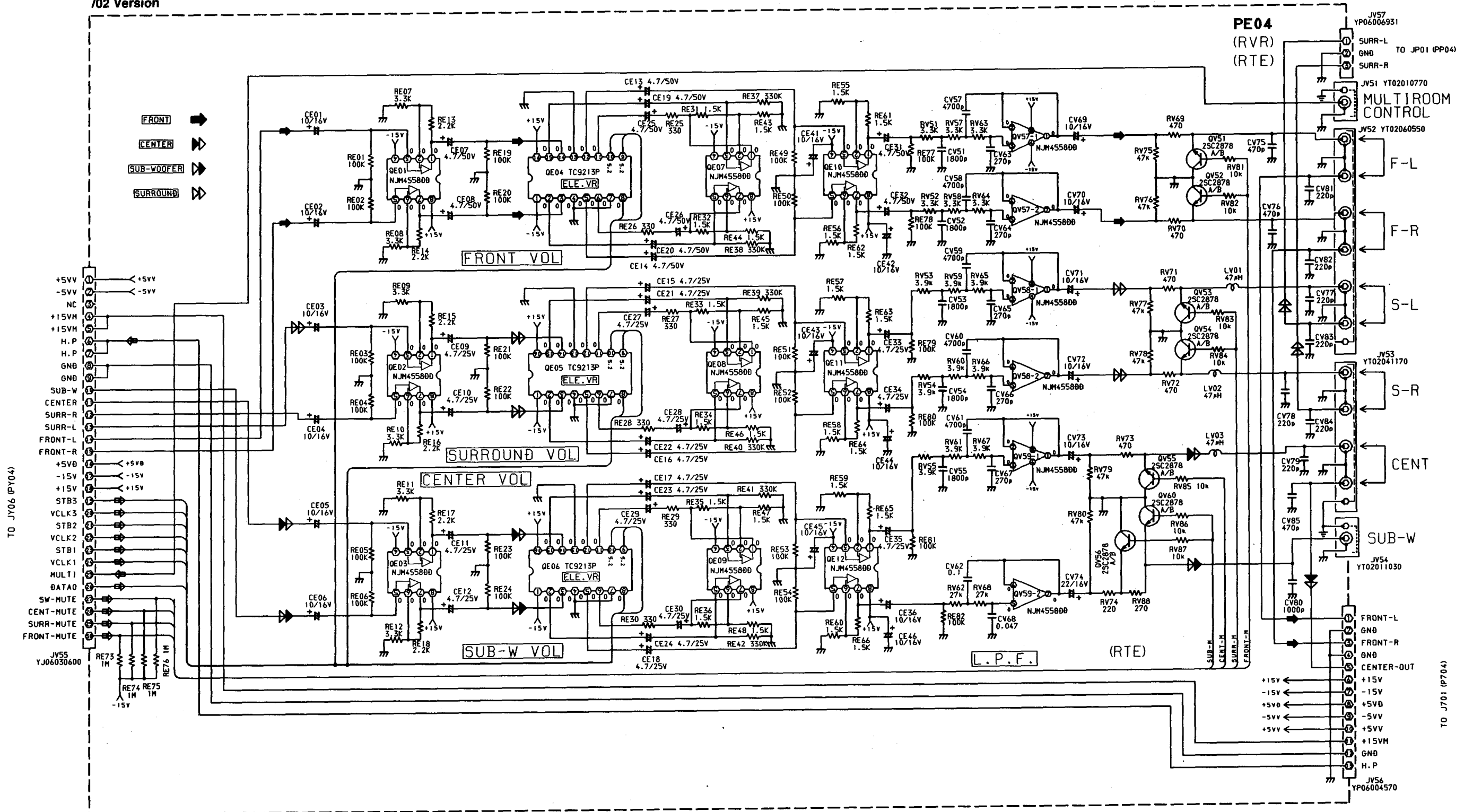
**/02 Version [MOMS]**



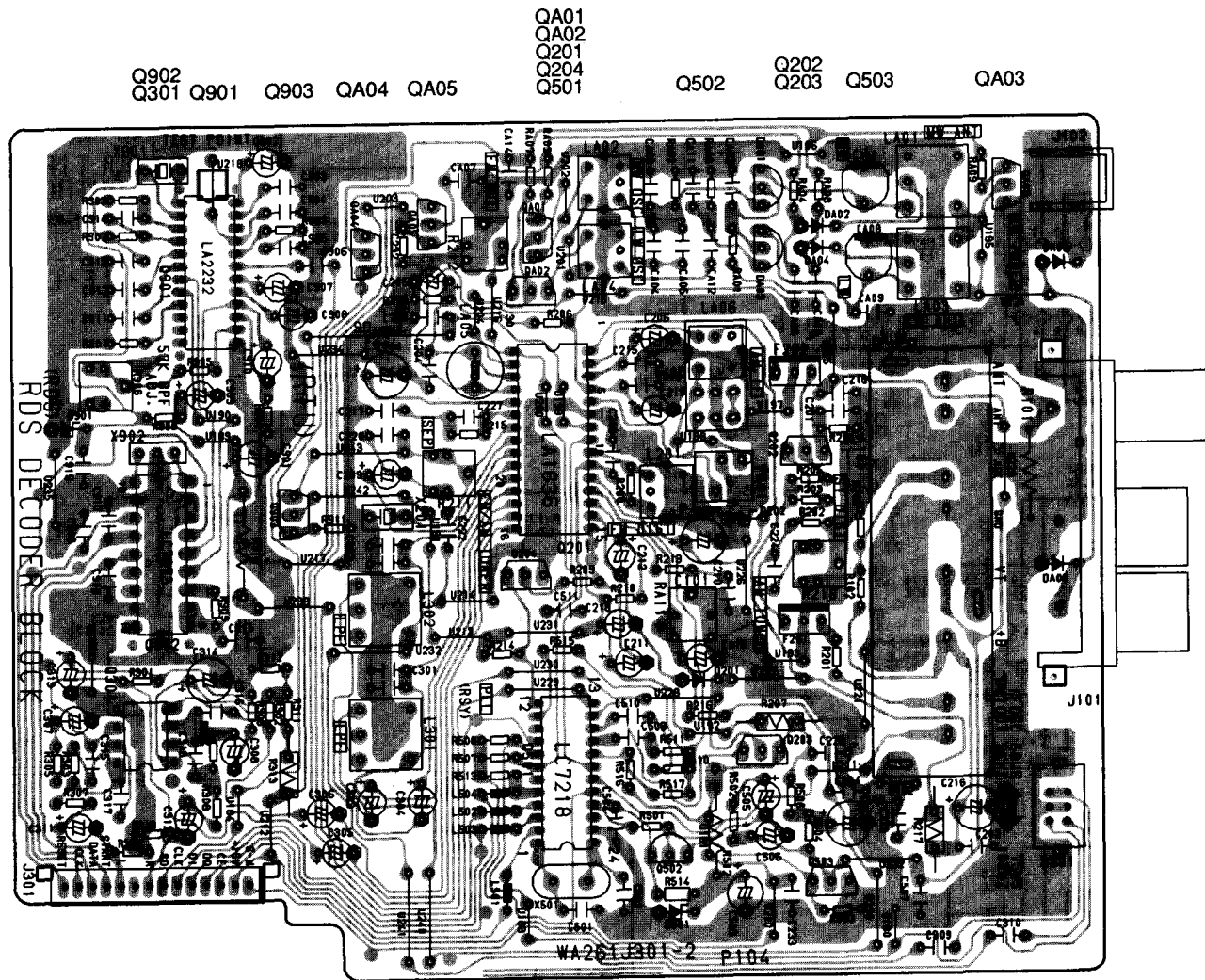
U, K, KK Version



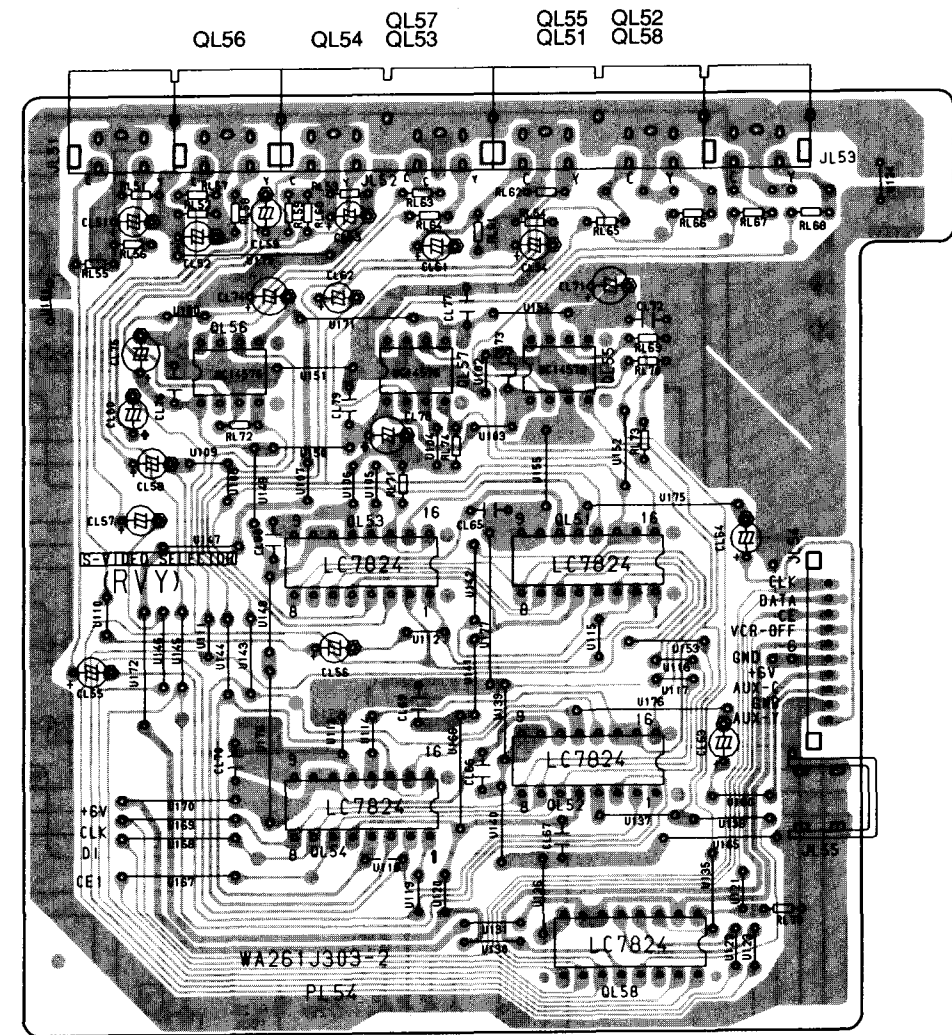
102 Version



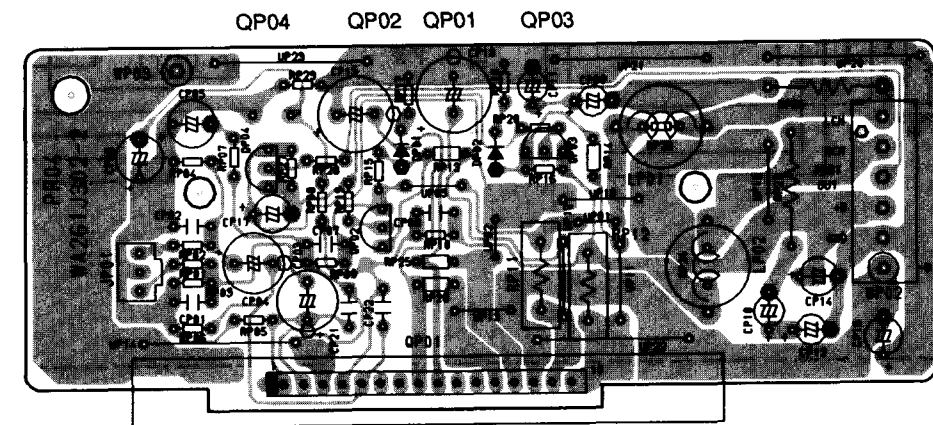
P104-Tuner P.C.Board



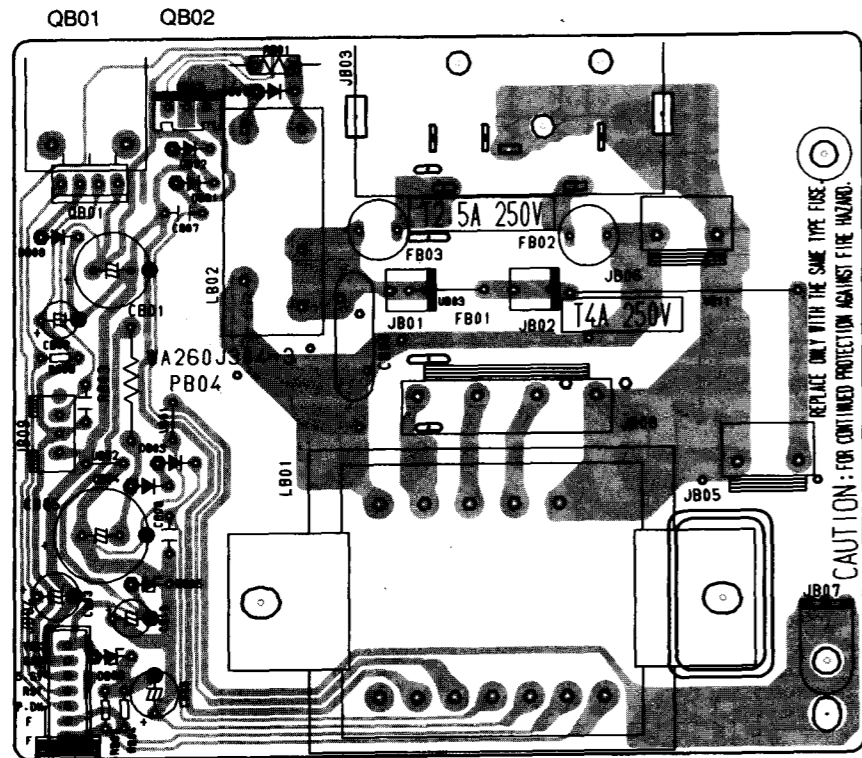
PL54-S-Video P.C.Board (SR870 only)



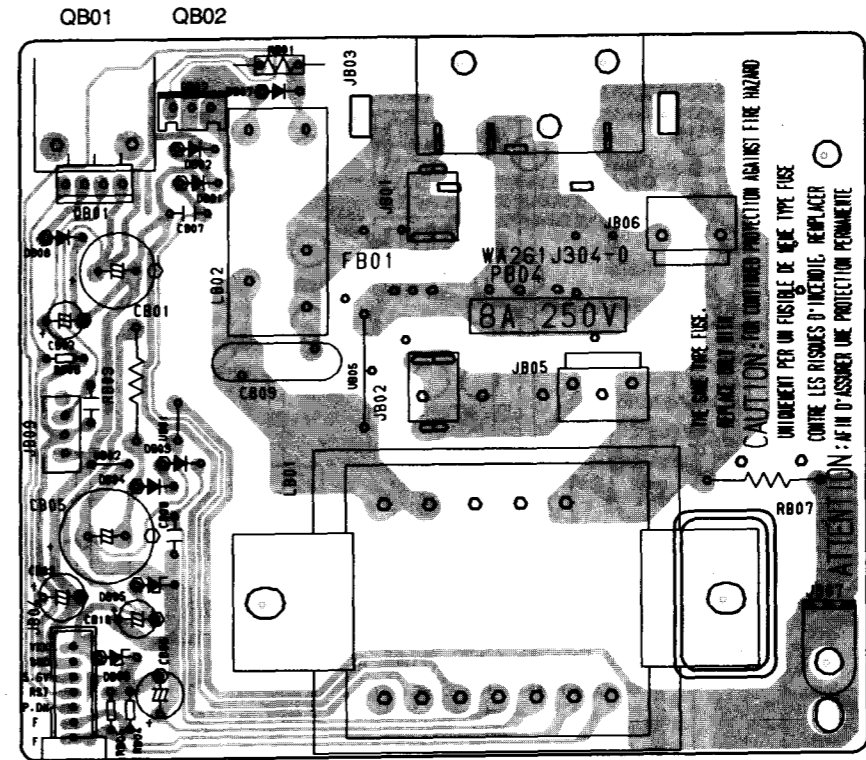
PP04-Surround P.C.Board



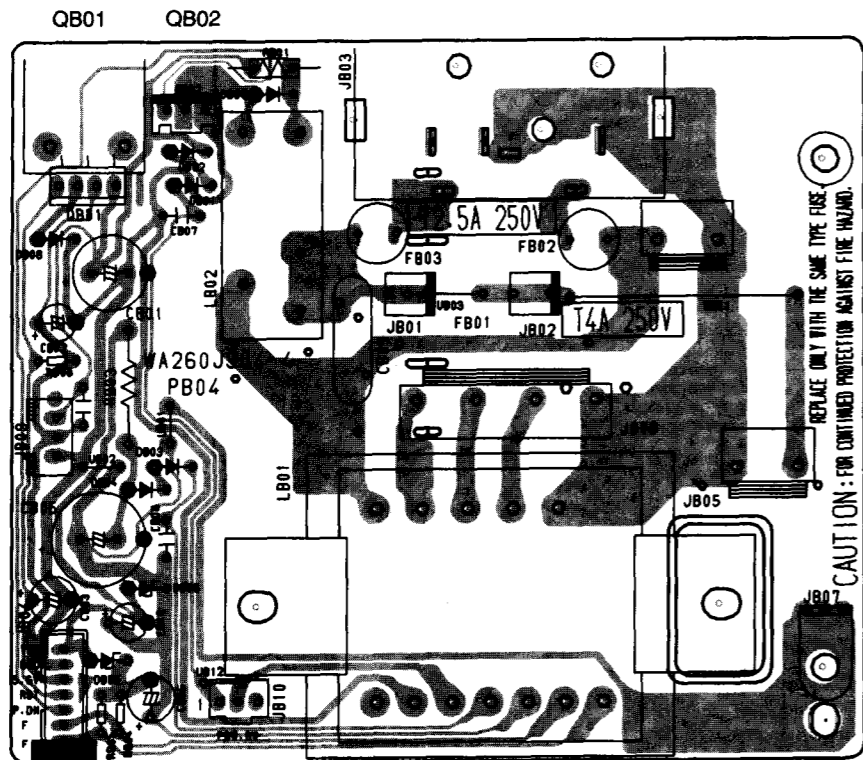
PB04-Back Up P.C.Board  
(K, /02B version) [TACT]



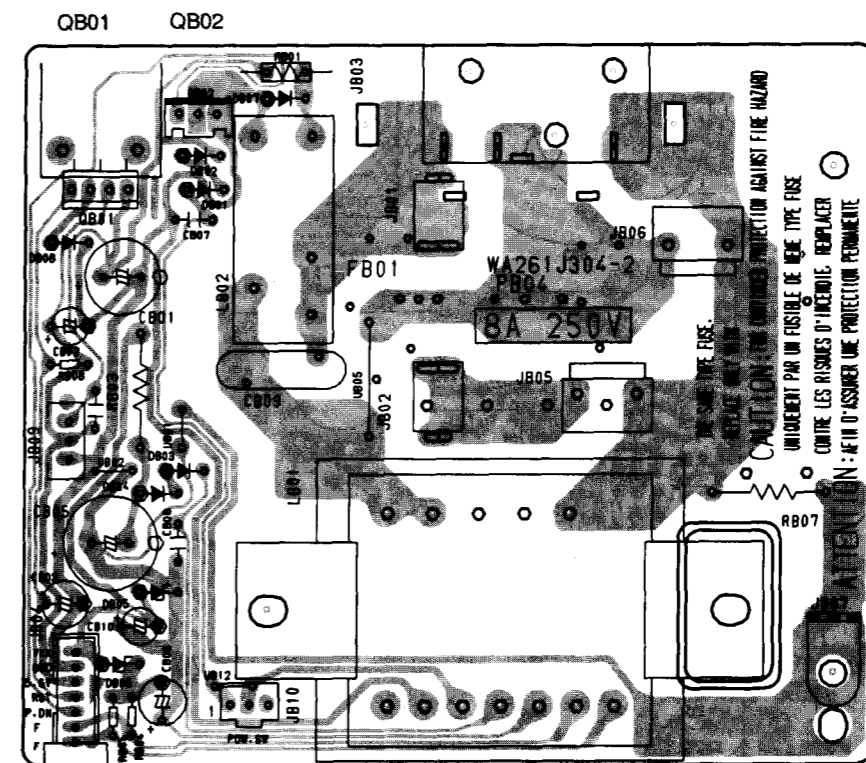
PB04-Back Up P.C.Board  
(U, KK version) [TACT]



PB04-Back Up P.C.Board  
(K, /02B version) [MOMS]

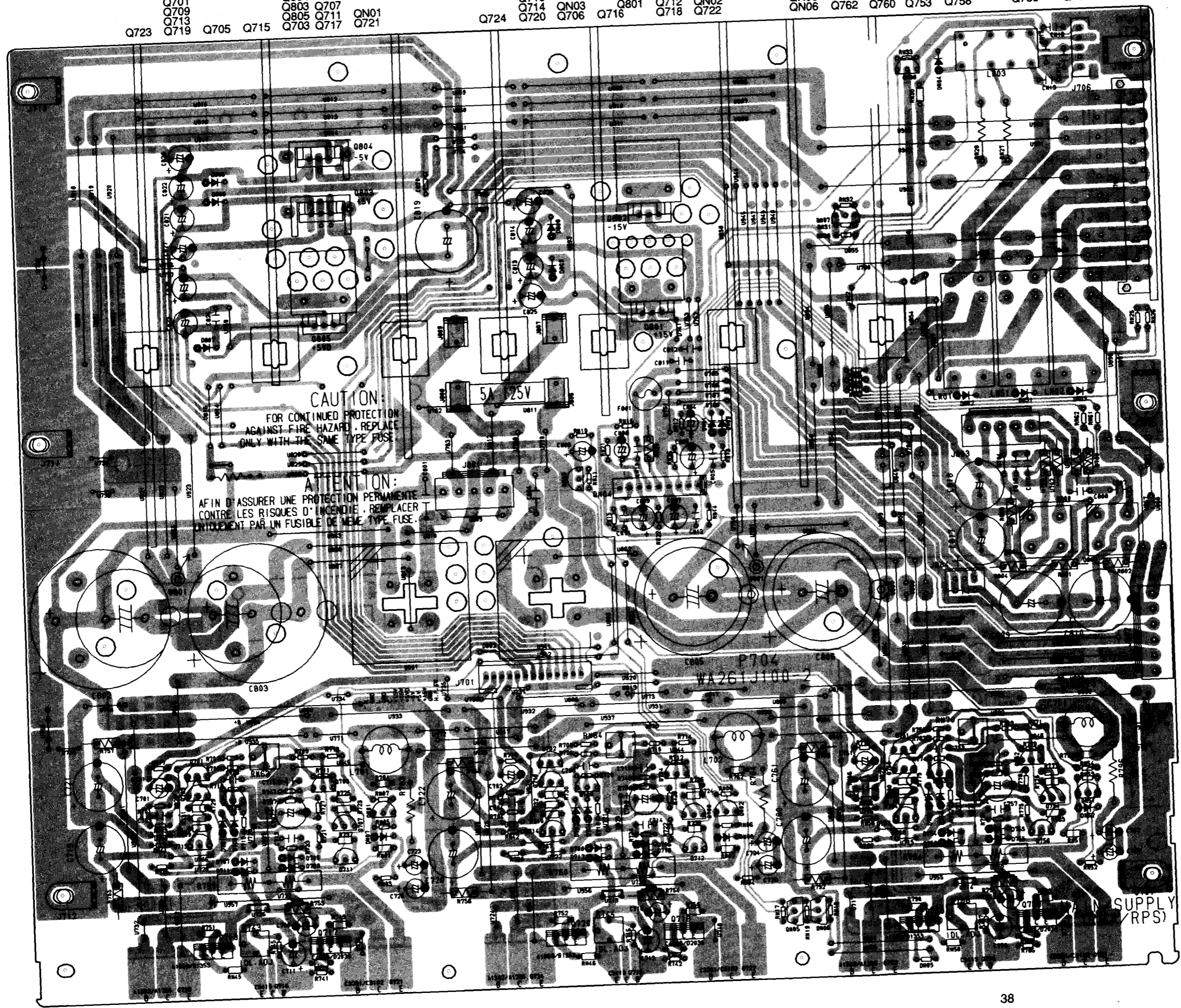


PB04-Back Up P.C.Board  
(U, KK version) [MOMS]



P704-Main Amp P.C.Board [TACT]

Q701 Q804 Q702 Q704 Q751 Q752  
 Q709 Q803 Q710 Q708 Q755 Q754  
 Q713 Q805 Q711 Q712 Q757 Q756  
 Q719 Q705 Q715 Q703 Q717 Q721 Q724 Q720 Q706 Q716 Q802 Q801 Q718 Q722 QN05 QN07 Q762 Q760 Q753 Q758 Q759 QN51 Q761



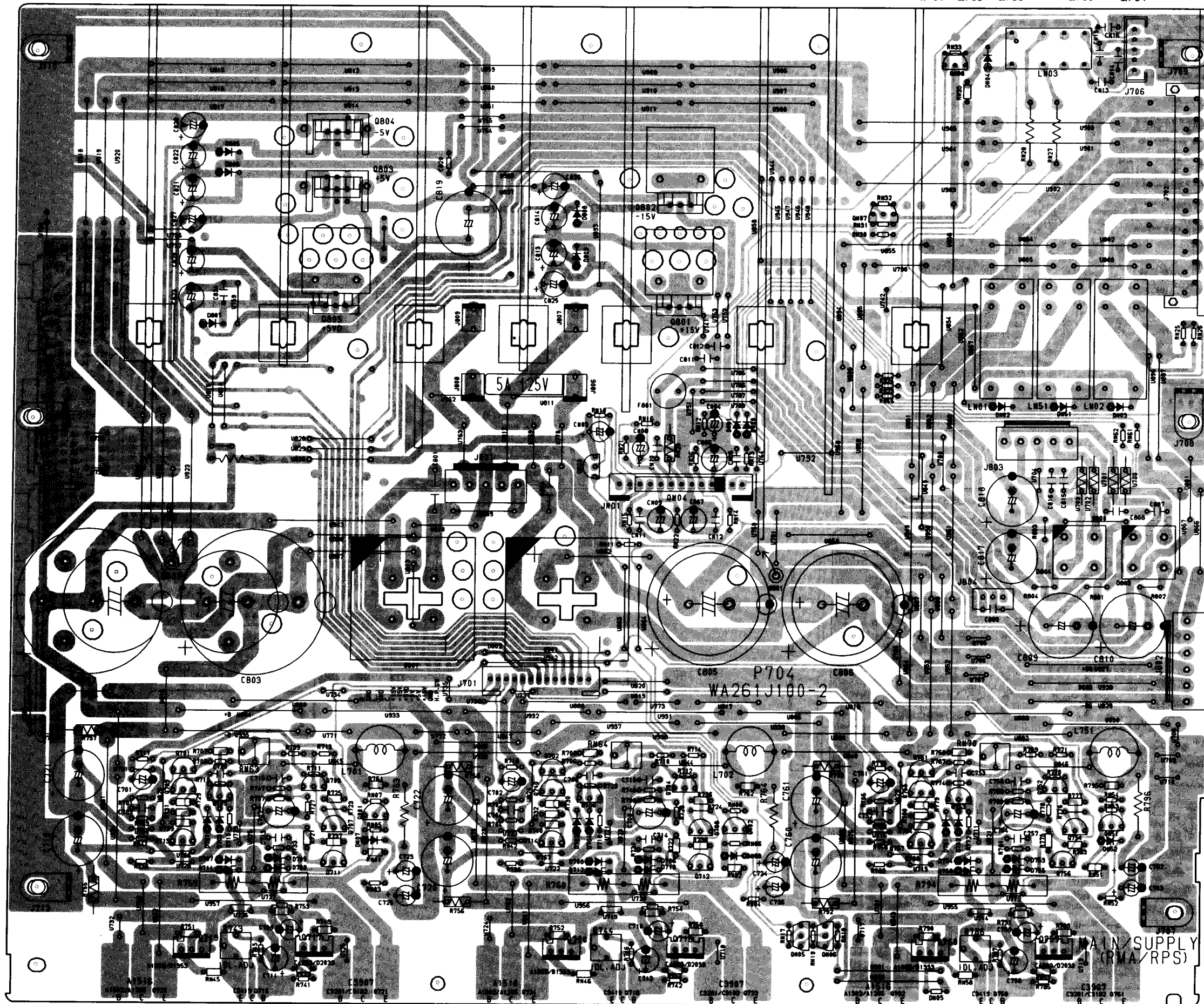
P704-Main Amp P.C.Board [MOMS]

Q701 Q804  
 Q709 Q803 Q707  
 Q713 Q805 Q711 QN01  
 Q723 Q719 Q705 Q715 Q703 Q717 Q721

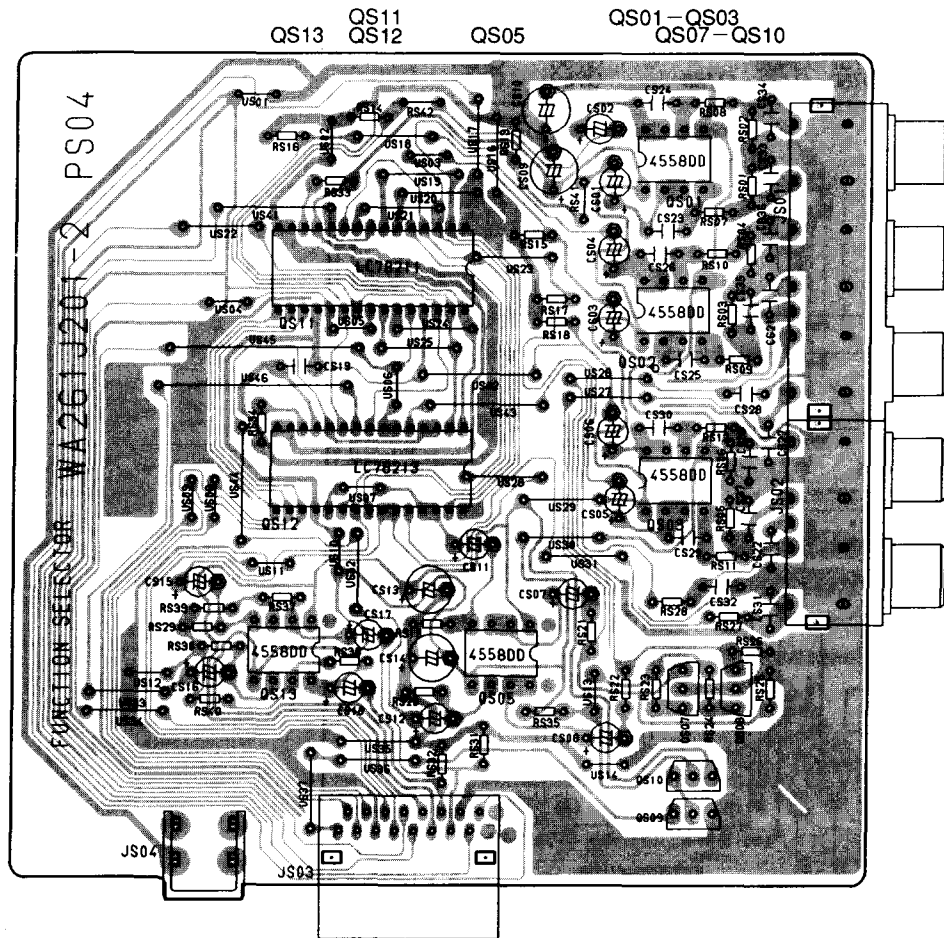
Q702 Q704  
 Q710 Q708  
 Q714 Q802 Q712 QN02  
 QN03 Q716 Q718 Q722  
 Q706 Q716

Q751 Q752  
 Q755 Q754  
 Q757 Q756  
 Q760 Q753 Q758 Q759  
 QN05 QN07 QN08  
 QN06 Q762 Q753 Q758

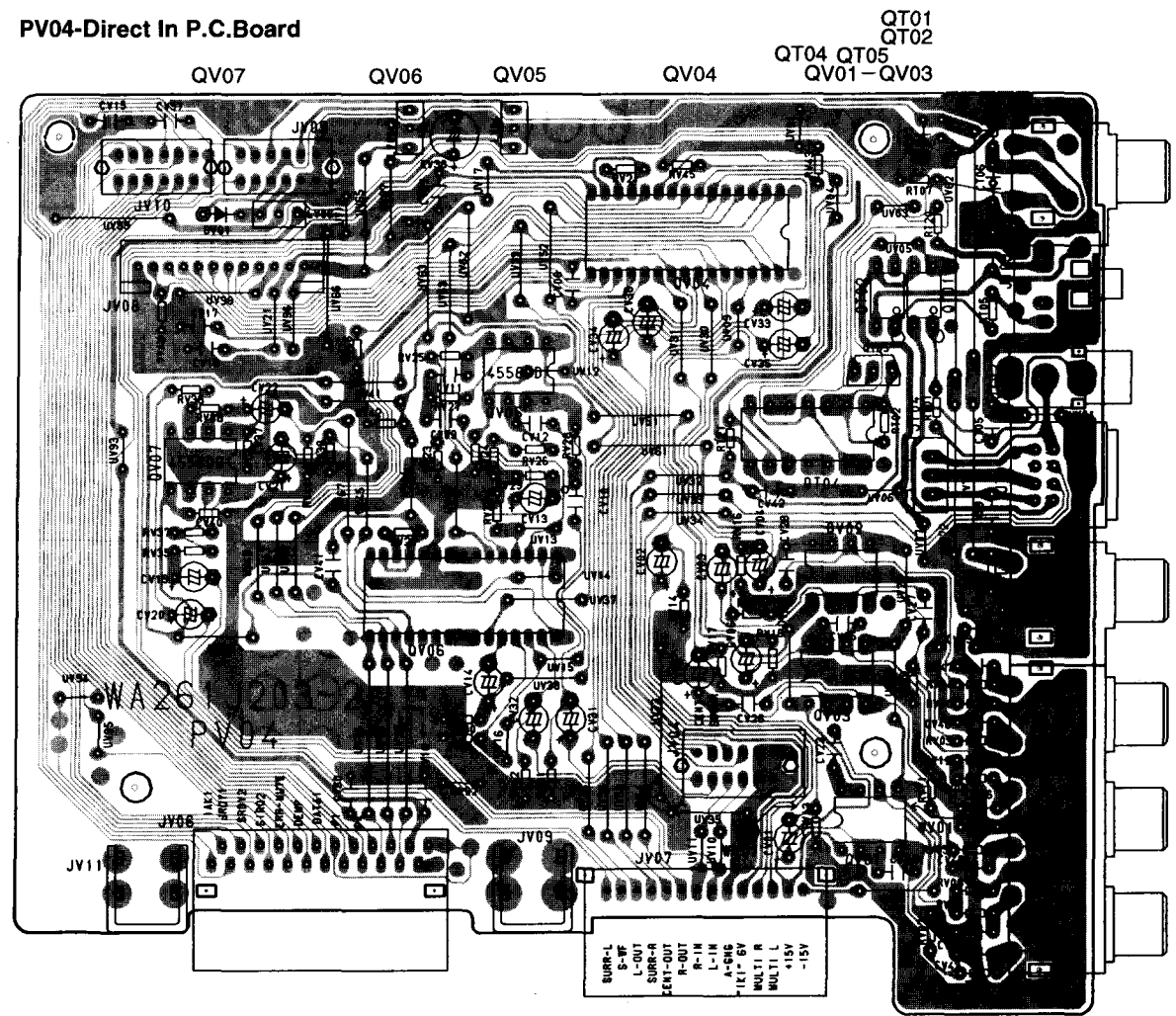
Q752  
 Q754  
 Q756  
 Q759  
 QN51  
 Q761



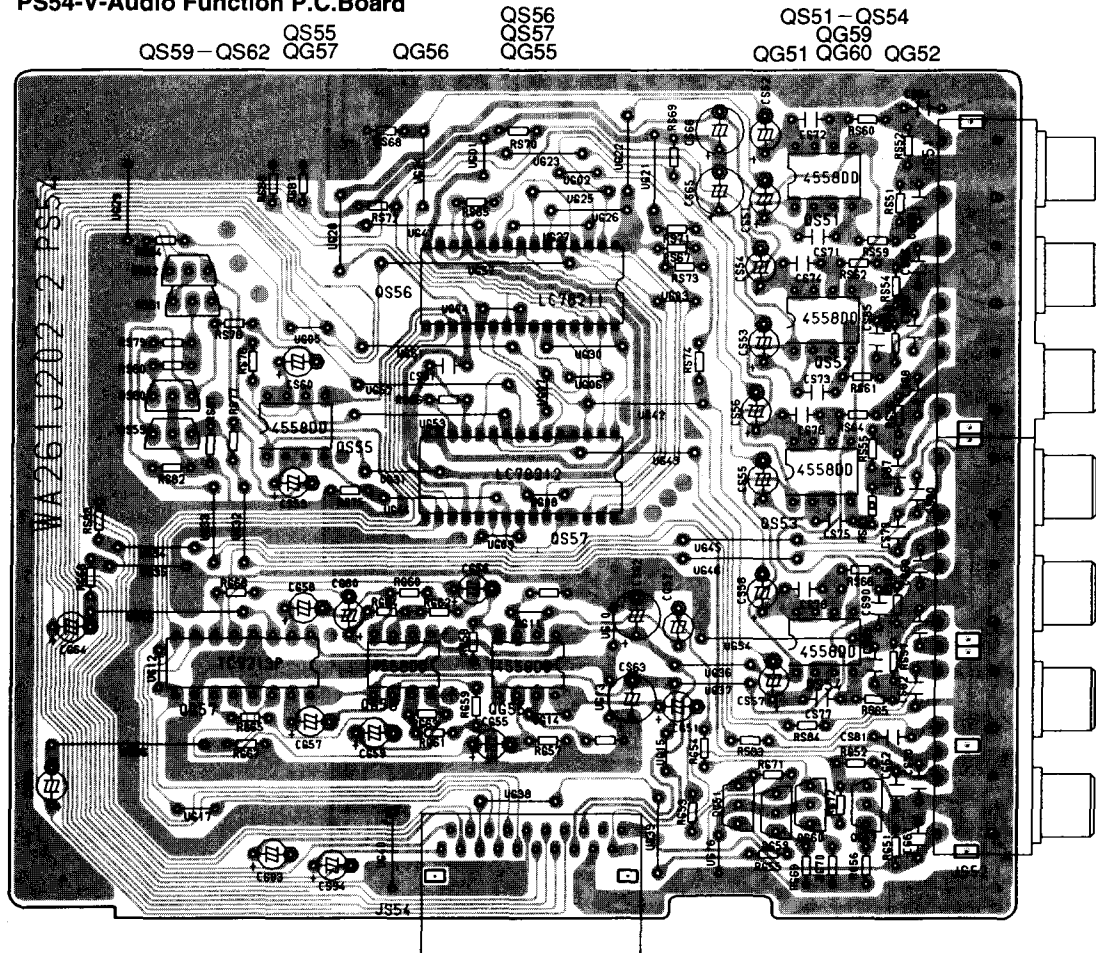
PS04-Audio Function P.C.Board



PV04-Direct In P.C.Board



PS54-V-Audio Function P.C.Board





PE04-Ele. Vol P.C.Board [TACT]

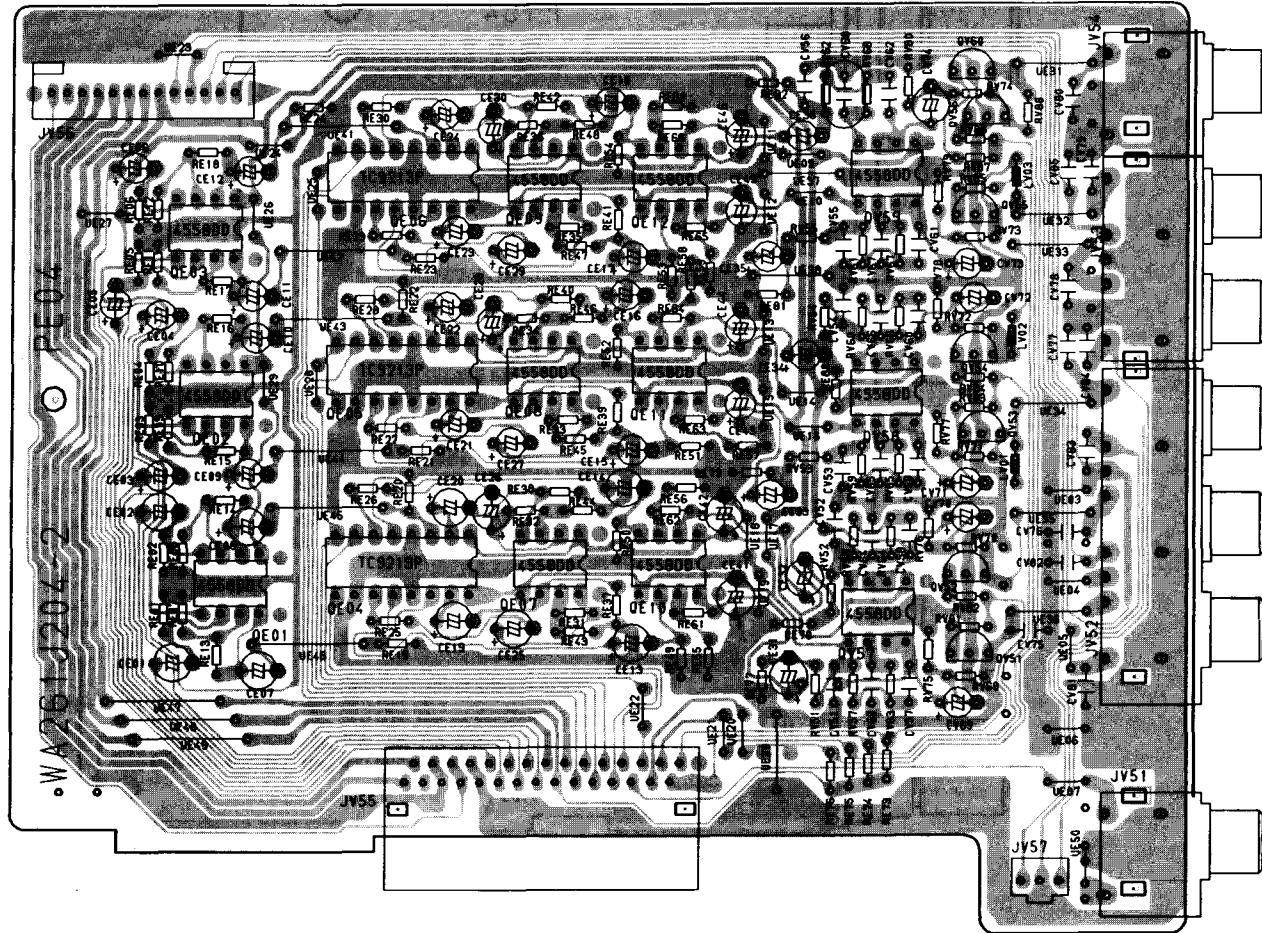
QE01 - QE03    QE04 - QE06

QE09  
QE08  
QE07

QE10  
QE11  
QE12

QV59  
QV58  
QV57

QV60  
QV51 - QV56



PE04-Ele. Vol P.C.Board [MOMS]

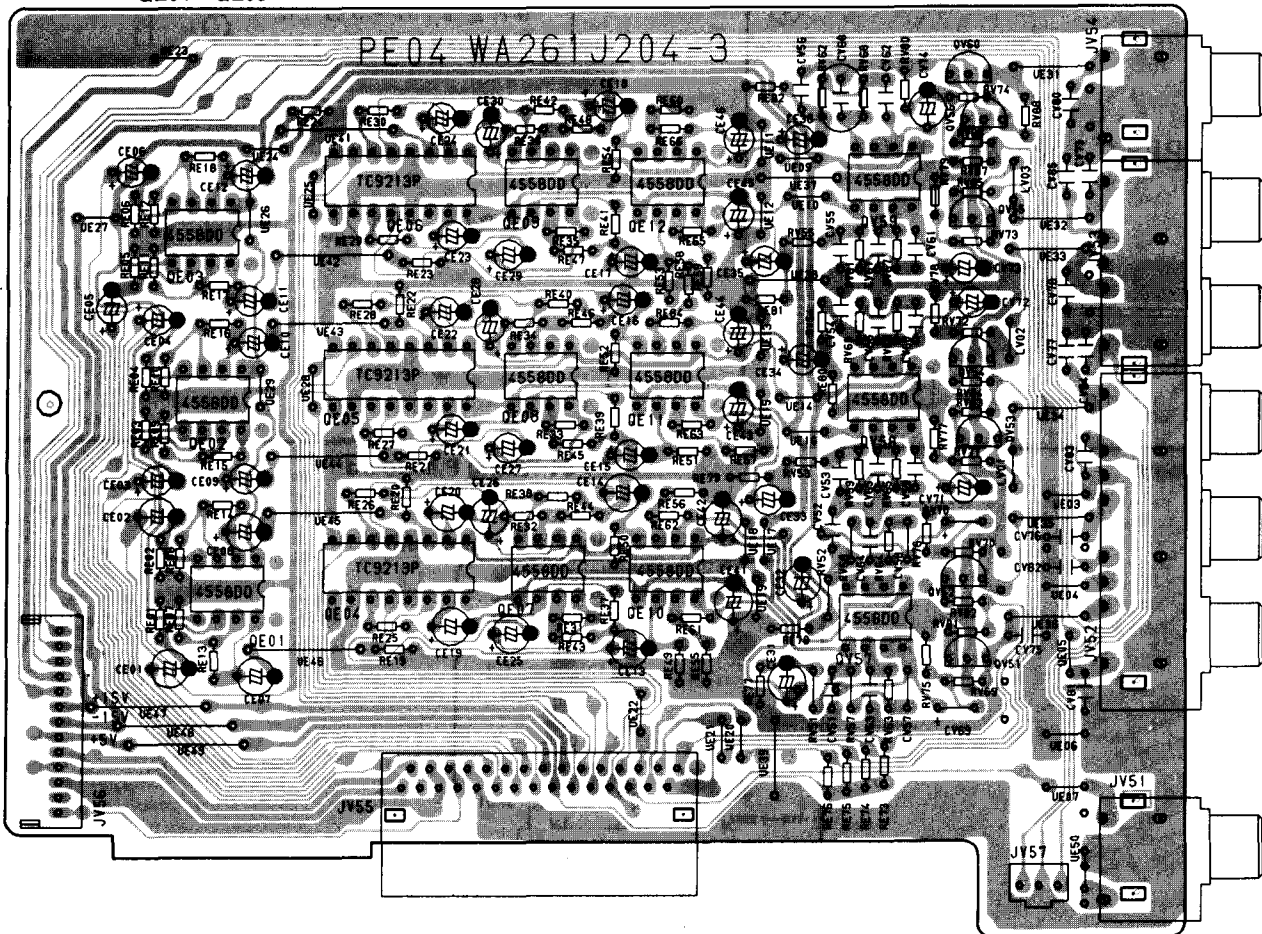
QE01 - QE03    QE04 - QE06

QE09  
QE08  
QE07

QE10  
QE11  
QE12

QV59  
QV58  
QV57

QV60  
QV51 - QV56



PY04-Connect P.C.Board

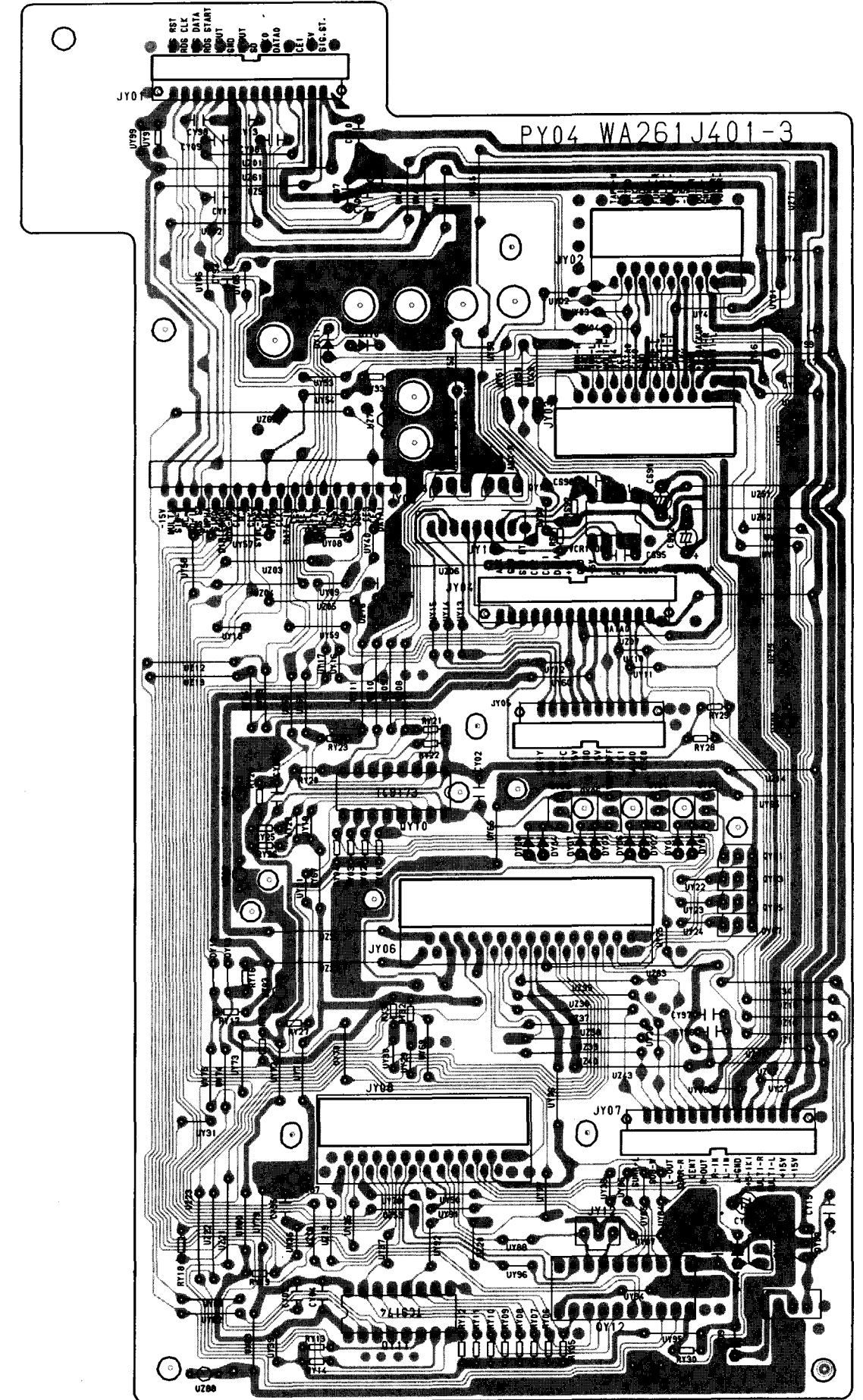
QY10  
QY11

QY15  
QY14

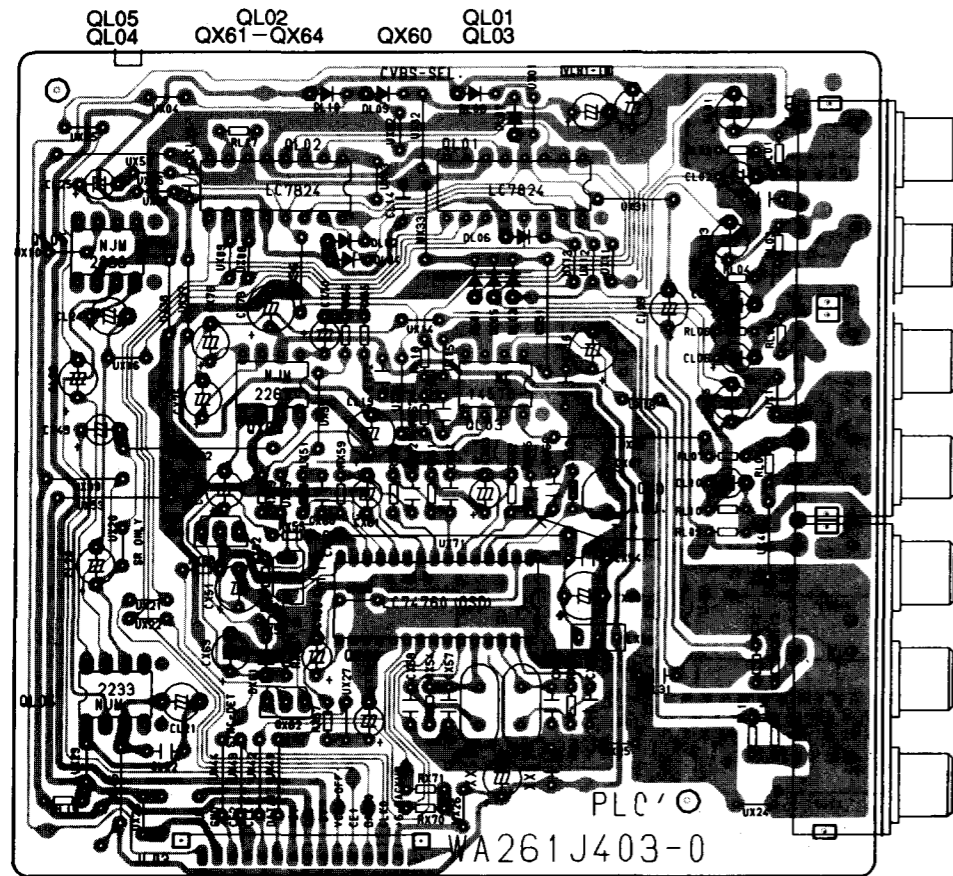
QY08  
QY06

QY02  
QY04  
QY12

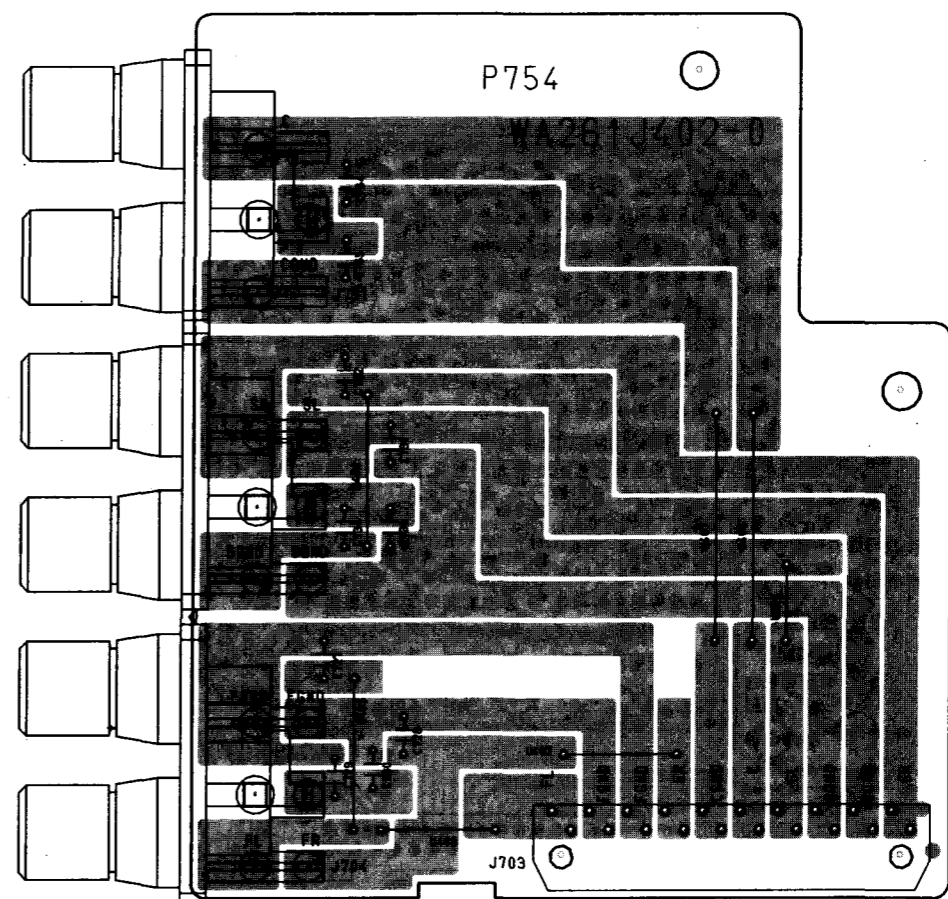
QY01  
QY03  
QY05  
QY09  
QY07  
QY13



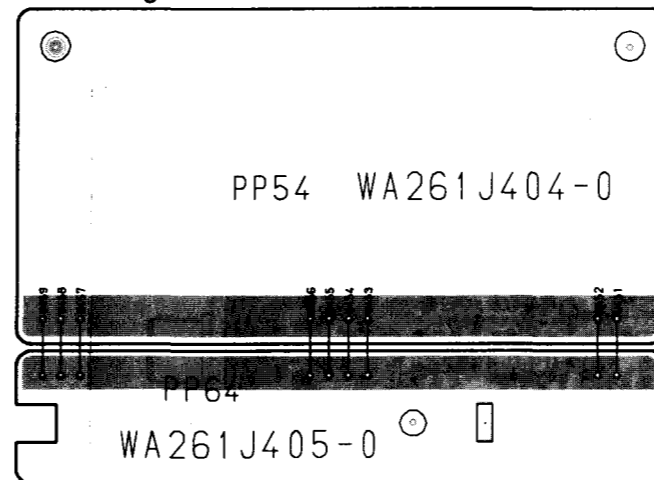
PL04-Video Selector P.C.Board



P754-SPK Terminal P.C.Board

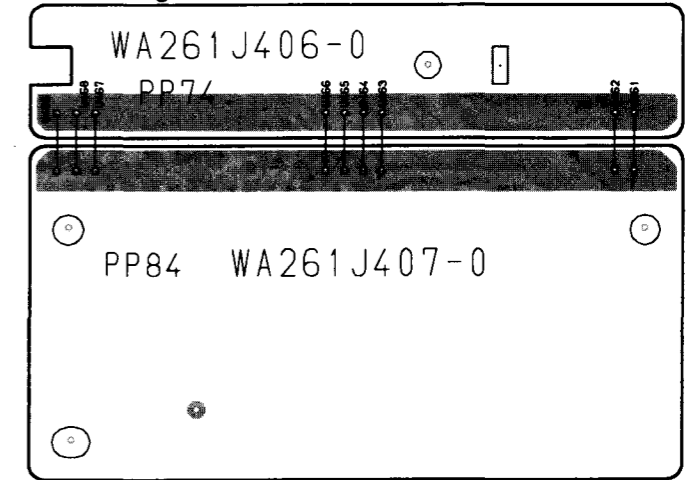


PP54-Wiring P.C.Board



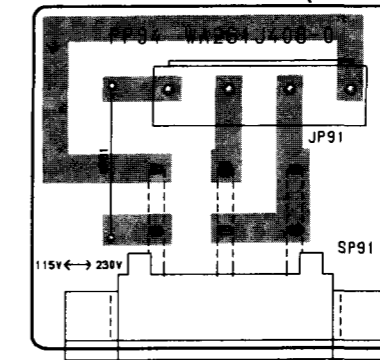
PP64-Wiring P.C.Board

PP74-Wiring P.C.Board

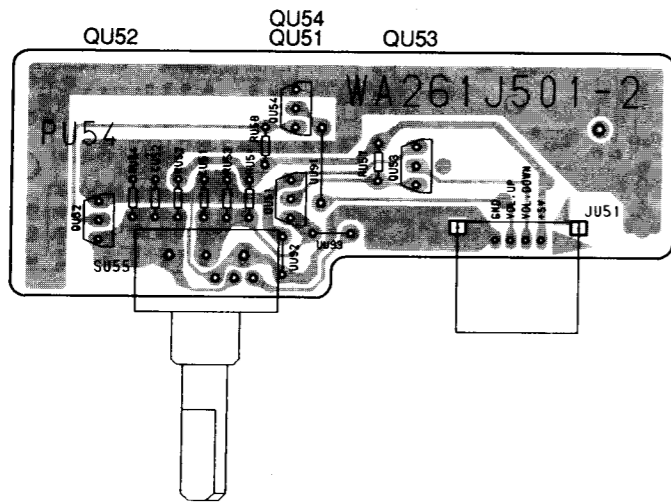


PP84-Wiring P.C.Board

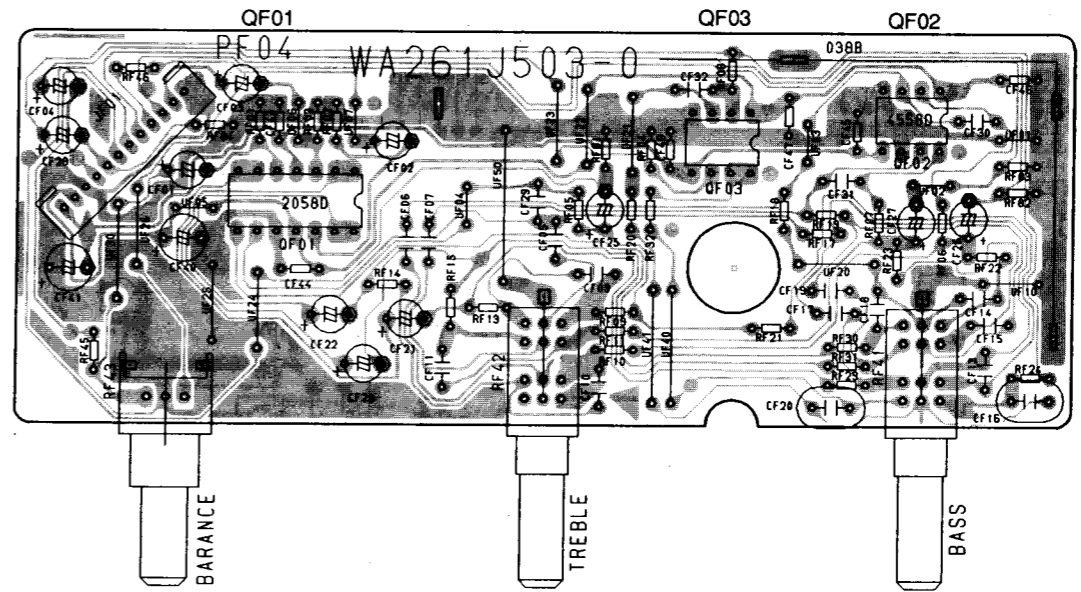
PP94-Vol-Sel P.C.Board (K version only)



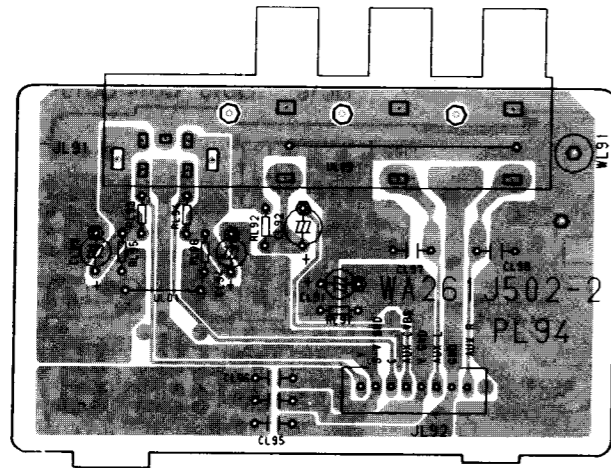
PU54-Master Vol P.C.Board



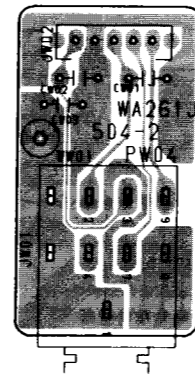
PF04-Tone P.C.Board



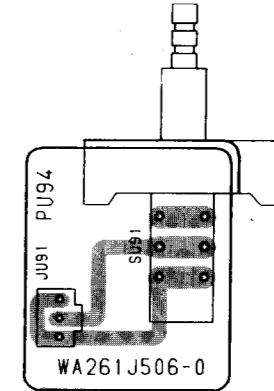
PL94-Aux In P.C.Board



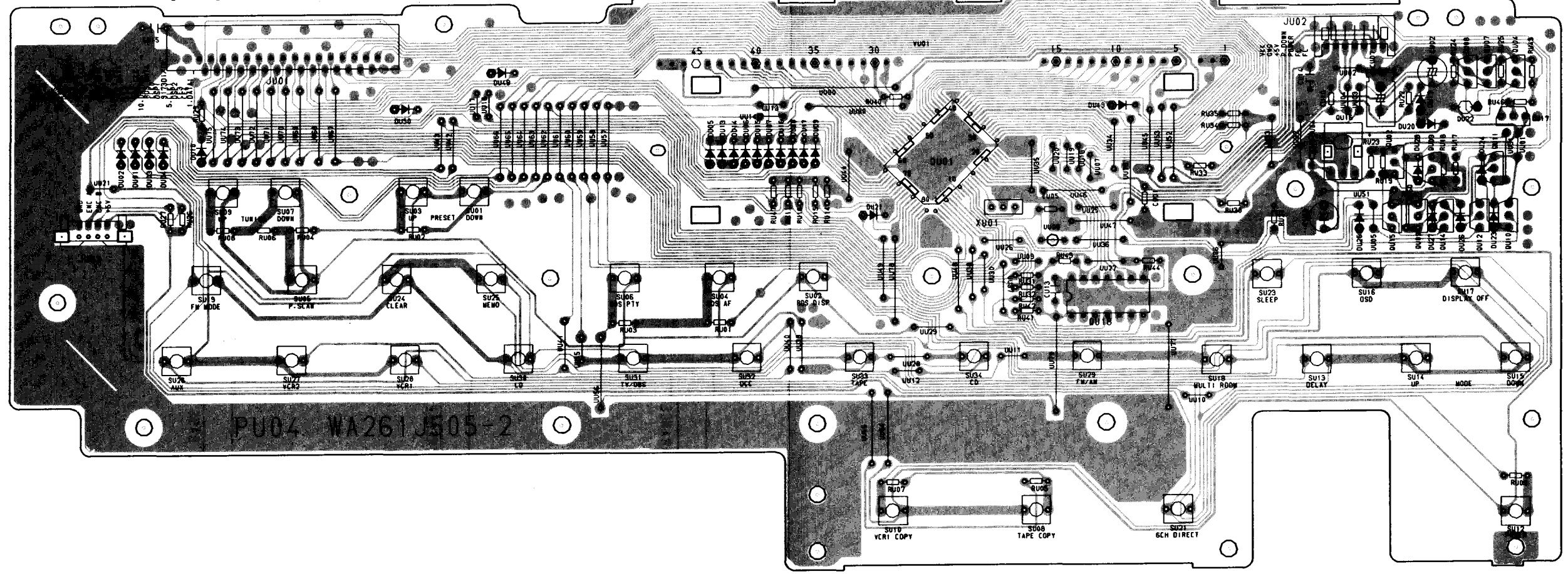
PW04-H.P. P.C.Board



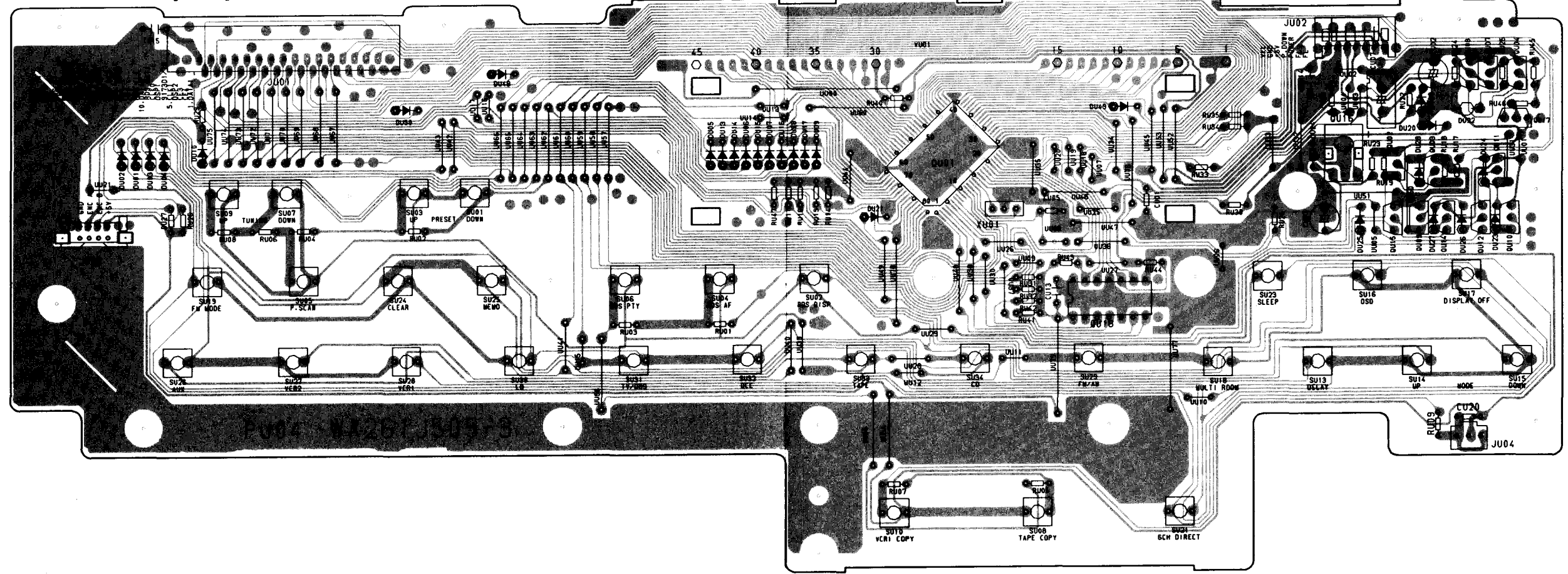
PU94-Power SW P.C.Board  
[MOMS] ONLY



PU04-Front P.C.Board [TACT]

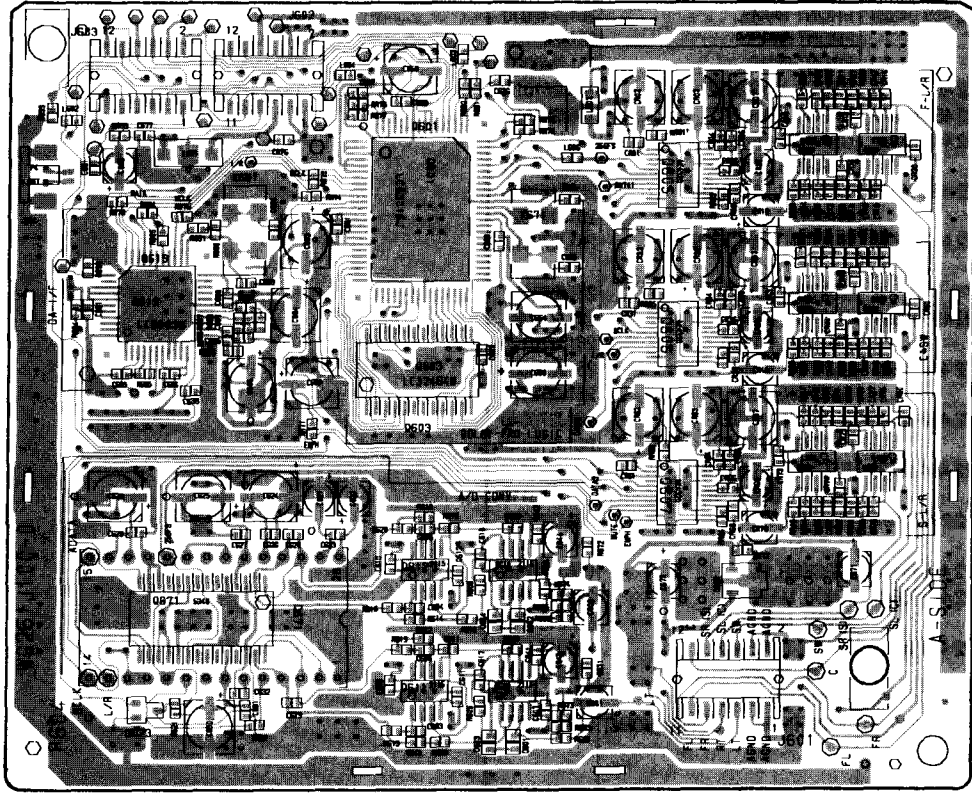


PU04-Front P.C.Board [MOMS]



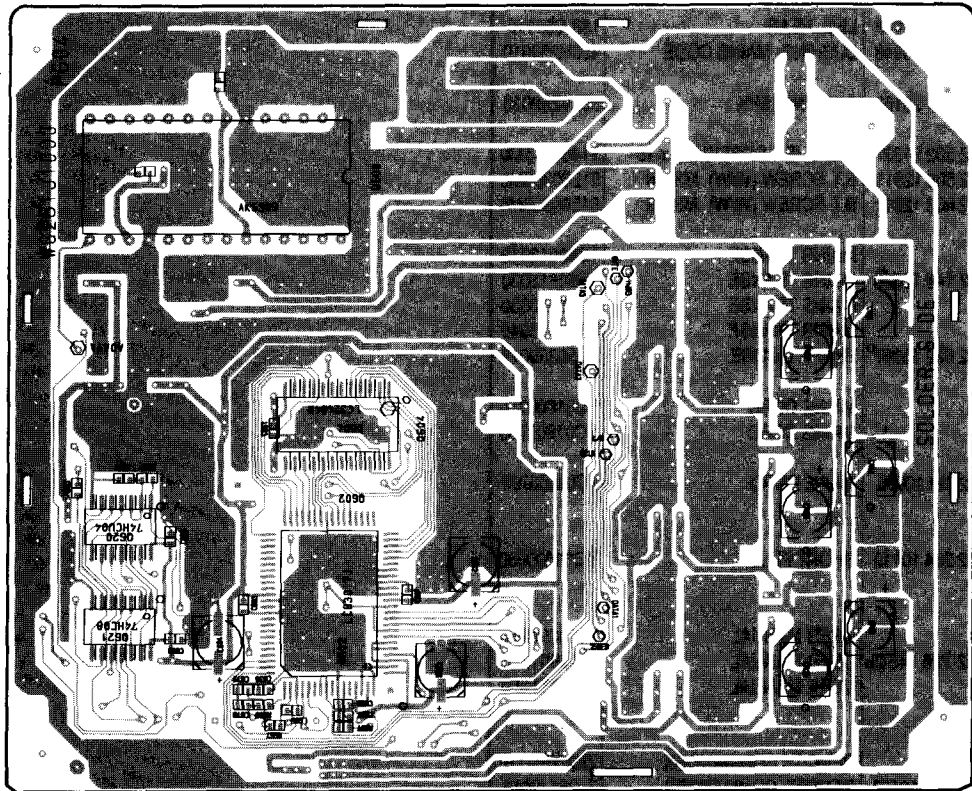
**P604-THX Pro-Logic DSP P.C.Board  
(Component Side)**

Q619		Q601	Q612	Q610	Q605	Q613	Q614
Q623	Q671	Q603	Q611	Q609	Q606	Q615	Q616
					Q607	Q617	Q618



**P604-THX Pro-Logic DSP P.C.Board  
(Soldering Side)**

Q620		Q604
Q621	Q608	Q602

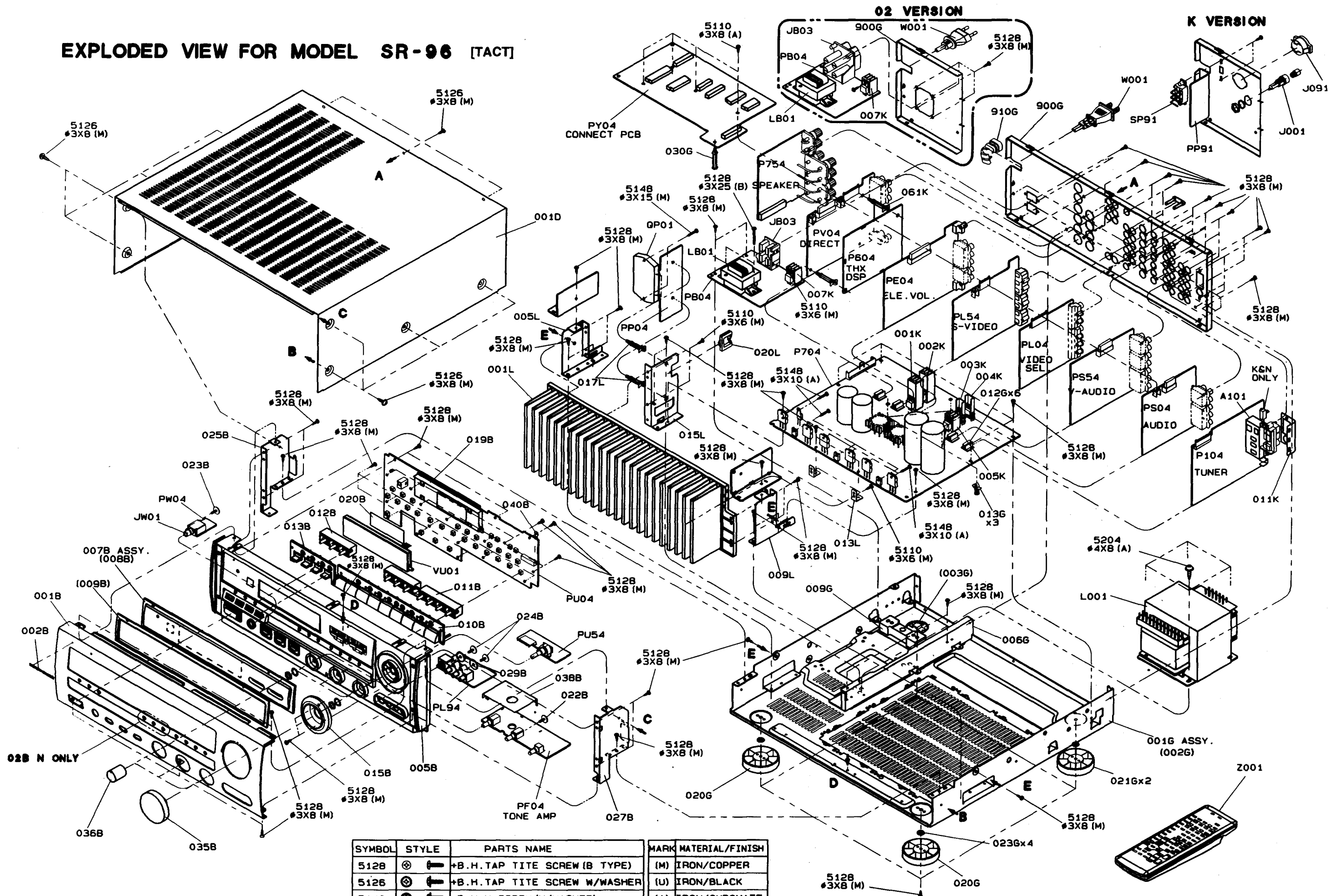


## 5. EXPLODED VIEW AND PARTS LIST

(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

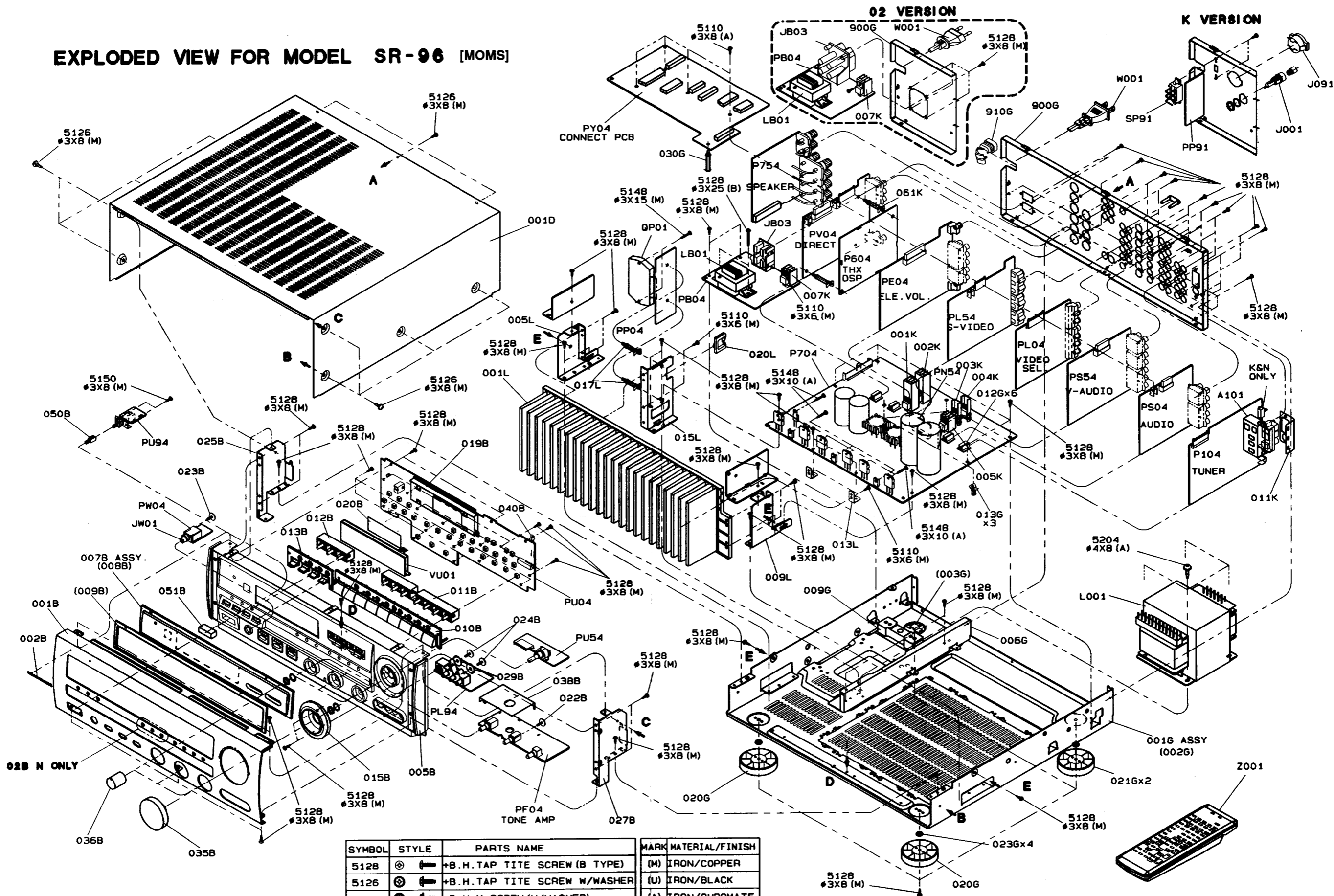
POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
001B	/02B	4822 459 04328	FRONT PANEL	261J248010
001B	KGL, KKGL		FRONT PANEL	261J248120
001B	U, KBL		FRONT PANEL	261J248020
002B	U, /02B, KBL	4822 459 11172	BADGE, MARANTZ	185J251010
002B	KGL, KKGL	4822 459 11173	BADGE, MARANTZ	185J251110
005B	U, /02B, KBL	4822 464 10202	CHASSIS, FRONT	261J105010
005B	KGL, KKGL		CHASSIS, FRONT	261J105110
007B	U, /02B, KBL	4822 450 10183	WINDOW ASSEMBLY	261J158510
007B	KGL, KKGL		WINDOW ASSEMBLY	261J158520
010B	U, /02B, KBL	4822 410 10709	BUTTON, FUNCTION	261J270010
010B	KGL, KKGL		BUTTON, FUNCTION	261J270110
011B	U, /02B, KBL	4822 410 10639	BUTTON, MEMO	261J270020
011B	KGL, KKGL		BUTTON, MEMO	261J270120
012B	U, /02B, KBL	4822 410 10641	BUTTON, OSD	261J270030
012B	KGL, KKGL		BUTTON, OSD	261J270130
013B	U, /02B, KBL	4822 410 10642	BUTTON, MODE	261J270040
013B	KGL, KKGL		BUTTON, MODE	261J270140
015B	U, /02B, KBL	4822 454 13137	ESCUTHCEON, VOL.	261J063010
015B	KGL, KKGL		ESCUTHCEON, VOL.	261J063110
019B		4822 256 92097	HOLDER, FL	183J271020
020B		4822 459 11158	STICKER, FL	056J122010
035B	U, /02B, KBL	4822 410 10643	KNOB, MAIN VOL.	261J154010
035B	KGL, KKGL		KNOB, MAIN VOL.	261J154110
036B	U, /02B, KBL	4822 410 10711	KNOB, TONE VOL.	261J154020
036B	KGL, KKGL		KNOB, TOMNE VOL.	261J154120
040B		4822 401 10935	CLAMPER, WIRE	4220005040
050B		4822 404 21012	JOINT, POWER BUTTON [MOMS]	025J125010
051B	U, /02B, KBL	4822 410 62744	BUTTON, POWER [MOMS]	285K270010
051B	KGL, KKGL	4822 462 72053	BUTTON, POWER [MOMS]	285K270110
005D		4822 502 12511	B.T.SCREW (W/W) M3 x 8	51260308M0
006D		4822 502 12511	B.T.SCREW (W/W) M3 x 8	51260308M0
012G		4822 256 90913	HOLDER	2218271020
020G		4822 462 42045	LEG, FRONT	183J057010
021G		4822 462 42048	LEG, REAR	183J057110
910G		4822 532 60948	BUSHING, MAINS CODE	450H259010
014K	/02B, KBL, KGL	4822 417 20168	BUSHING, SPK	306V259030
018L		4822 502 21337	FWASHER SCREW M3 x 15	51480315M0
025L		4822 502 12511	B.T. SCREW (W/W) M3 x 8	51260308M0
026L		4822 502 12511	B.T. SCREW (W/W) M3 x 8	51260308M0
▲L001	U		MAINS TRANSF.	TS60513010
▲L001	/02B	4822 146 10636	MAINS TRANSF.	TS60513020
▲L001	KBL, KGL		MAINS TRANSF.	TS60513030
▲L001	KKGL		MAINS TRANSF.	TS60513040
L002		4822 529 10357	FERRITE CORE	FS50380010
▲W001	U		MAINS CORD	YC01800780
▲W001	KBL, KGL, KKGL		MAINS CORD	YC01800790
▲W001	/02B	4822 321 10985	MAINS CORD	YC01800790
Y001				
I		4822 264 10110	SHORT PLUG	YQ01000080
Y005				
001T	U		USER MANUAL	261J851250
001T	/02B	4822 736 14645	USER MANUAL	261J851310
001T	KBL, KGL, KKGL		USER MANUAL	261J851350
Z001	U		REMOTE COMMANDER	ZK206W0010
Z001		4822 219 10103	REMOTE COMMANDER	ZJ261J0010

# EXPLODED VIEW FOR MODEL SR-96 [TACT]



SYMBOL	STYLE	PARTS NAME	MARK	MATERIAL/FINISH
5128	⊕	+B.H.TAP TITE SCREW (B TYPE)	(M)	IRON/COPPER
5126	⊕	+B.H.TAP TITE SCREW W/WASHER	(U)	IRON/BLACK
5148	⊕	+B.H.M. SCREW (W/WASHER)	(A)	IRON/CHROMATE
5150	⊕	+F.H.TAP TITE SCREW (B TYPE)		
5110	⊕	+B.H.M. SCREW		
5204	⊕	+H.H.TAPT.BOLTS WITH FLANGE (S TITE)		

# EXPLODED VIEW FOR MODEL SR-96 [MOMS]



SYMBOL	STYLE	PARTS NAME	MARK	MATERIAL/FINISH
5128	⊕	+B.H.TAP TITE SCREW (B TYPE)	(M)	IRON/COPPER
5126	⊕	+B.H.TAP TITE SCREW W/WASHER	(U)	IRON/BLACK
5148	⊕	+B.H.M.SCREW (W/WASHER)	(A)	IRON/CHROMATE
5204	⊕	+H.H.TAPT.BOLTS WITH FLANGE (S TITE)		
5110	⊕	+B.H.M.SCREW		
5150	⊕	+F.H.TAP TITE SCREW (B TYPE)		



(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
001B	/02B	4822 459 04328	FRONT PANEL	261J248010
001B	KGL, KKGL		FRONT PANEL	261J248120
001B	U, KBL		FRONT PANEL	261J248020
002B	U, /02B, KBL	4822 459 11172	BADGE, MARANTZ	185J251010
002B	KGL, KKGL	4822 459 11173	BADGE, MARANTZ	185J251110
005B	U, /02B, KBL	4822 464 10202	CHASSIS, FRONT	261J105010
005B	KGL, KKGL		CHASSIS, FRONT	261J105110
007B	U, /02B, KBL	4822 450 10183	WINDOW ASSEMBLY	261J158510
007B	KGL, KKGL		WINDOW ASSEMBLY	261J158520
010B	U, /02B, KBL	4822 410 10709	BUTTON, FUNCTION	261J270010
010B	KGL, KKGL		BUTTON, FUNCTION	261J270110
011B	U, /02B, KBL	4822 410 10639	BUTTON, MEMO	261J270020
011B	KGL, KKGL		BUTTON, MEMO	261J270120
012B	U, /02B, KBL	4822 410 10641	BUTTON, OSD	261J270030
012B	KGL, KKGL		BUTTON, OSD	261J270130
013B	U, /02B, KBL	4822 410 10642	BUTTON, MODE	261J270040
013B	KGL, KKGL		BUTTON, MODE	261J270140
015B	U, /02B, KBL	4822 454 13137	ESCUTHCEON, VOL.	261J063010
015B	KGL, KKGL		ESCUTHCEON, VOL.	261J063110
019B		4822 256 92097	HOLDER, FL	183J271020
020B		4822 459 11158	STICKER, FL	056J122010
035B	U, /02B, KBL	4822 410 10643	KNOB, MAIN VOL.	261J154010
035B	KGL, KKGL		KNOB, MAIN VOL.	261J154110
036B	U, /02B, KBL	4822 410 10711	KNOB, TONE VOL.	261J154020
036B	KGL, KKGL		KNOB, TONE VOL.	261J154120
040B		4822 401 10935	CLAMPER, WIRE	4220005040
050B		4822 404 21012	JOINT, POWER BUTTON [MOMS]	025J125010
051B	U, /02B, KBL	4822 410 62744	BUTTON, POWER [MOMS]	285K270010
051B	KGL, KKGL	4822 462 72053	BUTTON, POWER [MOMS]	285K270110
005D		4822 502 12511	B.T.SCREW (W/W) M3 x 8	51260308M0
006D		4822 502 12511	B.T.SCREW (W/W) M3 x 8	51260308M0
012G		4822 256 90913	HOLDER	2218271020
020G		4822 462 42045	LEG, FRONT	183J057010
021G		4822 462 42048	LEG, REAR	183J057110
910G		4822 532 60948	BUSHING, MAINS CODE	450H259010
014K	/02B, KBL, KGL	4822 417 20168	BUSHING, SPK	306V259030
018L		4822 502 21337	FWASHER SCREW M3 x 15	51480315M0
025L		4822 502 12511	B.T. SCREW (W/W) M3 x 8	51260308M0
026L		4822 502 12511	B.T. SCREW (W/W) M3 x 8	51260308M0
▲L001	U		MAINS TRANSF.	TS60513010
▲L001	/02B	4822 146 10636	MAINS TRANSF.	TS60513020
▲L001	KBL, KGL		MAINS TRANSF.	TS60513030
▲L001	KKGL		MAINS TRANSF.	TS60513040
L002		4822 529 10357	FERRITE CORE	FS50380010
▲W001	U		MAINS CORD	YC01800780
▲W001	KBL, KGL, KKGL		MAINS CORD	YC01800790
▲W001	/02B	4822 321 10985	MAINS CORD	YC01800790
Y001				
I				
Y005		4822 264 10110	SHORT PLUG	YQ01000080
001T	U		USER MANUAL	261J851250
001T	/02B	4822 736 14645	USER MANUAL	261J851310
001T	KBL, KGL, KKGL		USER MANUAL	261J851350
Z001	U		REMOTE COMMANDER	ZK206W0010
Z001		4822 219 10103	REMOTE COMMANDER	ZJ261J0010

## 6. 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 "MEMO" button.

FLD shows "TRACKING". Frequencies to be memorized are as follows.

	VERSION	P1	P2	P3	P4
FM	02B,U,K,KK	90.0	98.0	106.0	87.5
	JAPAN	78.0	83.0	88.0	76.0

	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 "MEMO" button.

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 R → ④ PEAK → ⑤ L → ⑥ MULTI → ⑦ MONO → ⑧ MATRIX →  
⑨ HALL → ⑩ P-SCAN → ⑪ TAPE → ⑫ COPY → ⑬ VCR1 → ⑭ SLEEP → ⑮ DISP → ⑯ TX

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 LEVEL → ③ CH → ④ SIGNAL BAR (LEFT SIDE) →  
⑤ SIGNAL BAR (2nd LEFT) → ⑥ SIGNAL BAR (CENTER) → ⑦ SIGNAL BAR (2nd RIGHT) →  
⑧ SIGNAL BAR (RIGHT SIDE) → ⑨ STEREO → ⑩ THX CINEMA → ⑪ PRO.LOGIC →  
⑫ MOVIE → ⑬ AUTO MEMO → ⑭ 3.LOGIC → ⑮ SIMUL'D → ⑯ SURROUND

### 3. Selector check mode

This service program can be operate input selector and surround mode in automatically as following procedure. This service program continually repeat until power off.

When the POWER ON, press the "SURROUND MODE+" button while pressing the "MEMO" button.

STEP	INPUT SELECTOR	DSP MODE	FM MODE BAND	FREQUENCY	COPY SWITCH		NOTES
					TAPE	VCR1	
1	FM	STEREO	AUTO	98.0	SOURCE	SOURCE	
2	FM	STEREO	MONO	LAST	↑	↑	
3	CD	THX	AUTO	LAST	↑	↑	
4	TAPE	P-LOGIC	AUTO	LAST	TUNER	SOURCE	TUNER-ON
5	DCC	MOVIE	AUTO	LAST	SOURCE	TV	
6	TV	3 CH	AUTO	LAST	↑	SOURCE	
7	TV	HALL	AUTO	LAST	CD	LD	
8	LD	MATRIX	AUTO	LAST	TAPE2	TV	
9	VCR1	MONO	AM	1000	TUNER	VCR2	
10	VCR2	STEREO	AUTO	98.0	TUNER	SOURCE	TUNER-ON
11	AUX	THX	AUTO	LAST	SOURCE	AUX	

### 4. All clear

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

When the POWER ON, press the "CLEAR" button while pressing the "MEMO" button. FLD shows "CLEAR MEMO" and power will be OFF.

### 5. Volume reset

This service program can be reset "MASTER VOLUME LEVEL" and "CHANNEL OUTPUT LEVEL" to initial level. (MASTER VOLUME : -61dB, CHANNEL LEVEL : 0dB)

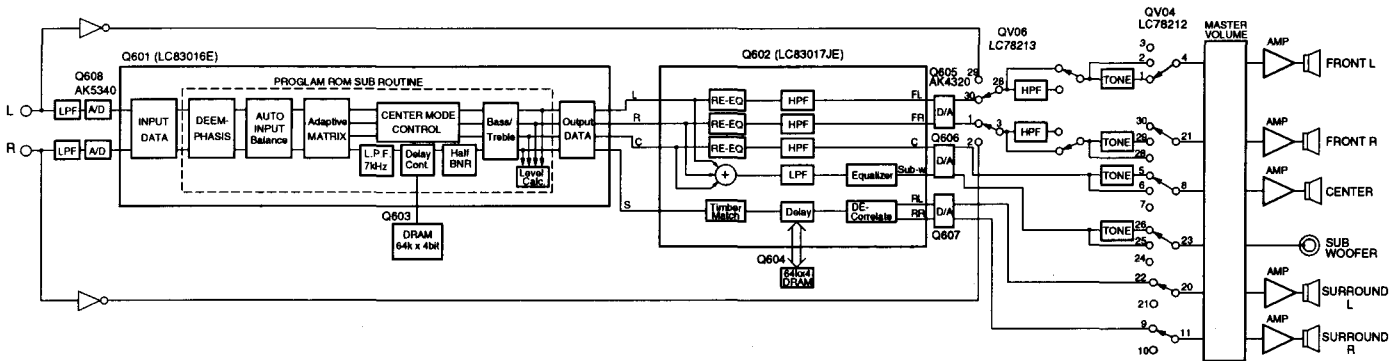
When the POWER ON, transmit the reset code "163731" continually more than 3 seconds by remote control unit(RC500AV or other multi remote controller). FLD shows "VOL RST".

## 7. CIRCUIT DESCRIPTION

### 1. SURROUND CIRCUIT

This model incorporates a surround processor circuit that provides 6 types of the surround sound. Fig. 1-1 is a block diagram of the surround processor circuit.

The microprocessor transfers the data to the parameter control (Serial data, Serial clock, Request Ready) to operate the circuits in each mode.



( Block diagram of the surround processor circuit. )

Fig. 1-1

#### 1) Stereo

Set to this mode to listen to ordinary stereo sound. The rear L/R and center outputs will be muted.

#### (3) Dolby pro logic

Q601 ( LC8316E ) is a Dolby pro logic decoder IC. When an audio signal recorded using the Dolby pro logic system is sent to this IC, the left, right, center and surround components are separated. The surround signal component is delayed by the digital delay circuit by 15-30 mS and is sent to the modified B-type decoder Q601 where noise reduction processing is performed.

Q706 LC78213

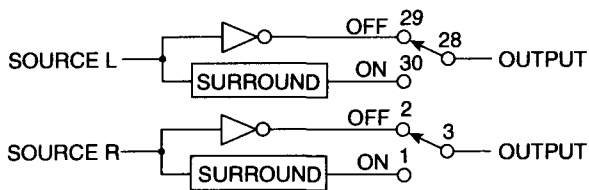


Fig. 1-2

#### (4) Movie, 3CH Logic Hall, Matrix

The Movie mode provides the feeling of presence you get from a 35-mm movie in a movie theater. 3CH Logic mode is used to improve the sound field center by applying directivity enhancement provided by the Dolby Pro Logic Surround decoder.

Hall mode provide a sound-field effect of medium-sized circular hall with rich reverberations.

Matrix mode is effective for playing sports broadcasts or outdoor live concerts. It provides a surround mode with a wide surround effect.

All the connections of the circuits are the same in these modes. Q601, controlled by the microprocessor, processes the audio signals to produce various sound effects and creates surround components to use them as signals to drive the surround channel.

#### (2) THX Cinema

The IC Q602 (LC83017E) is a THX Cinema decoder IC. IC Q602 (LC83017E) divides the 4 channel signals (Left, Right, Center and Surround) sourcing from IC Q601 (LC83016E) into 6 channel signals (Left, Right, Center, Surround Left, Surround Right and Sub Woffer).

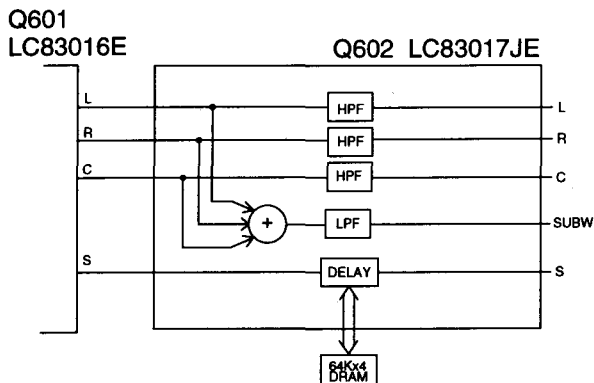


Fig. 1-3

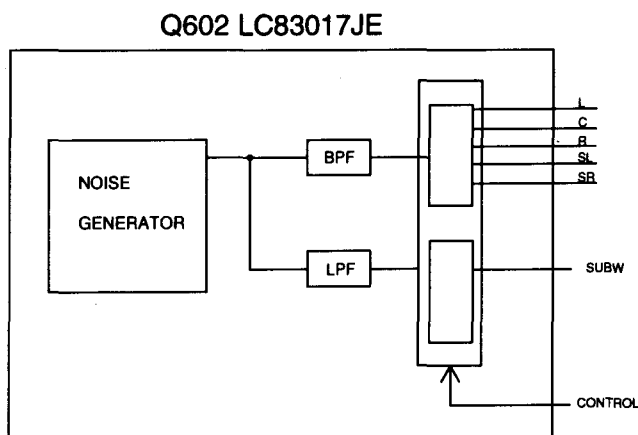
## 2. CENTER MODE

With Dolby pro logic, three center modes depend on the use of a center speaker as follows.

<b>NORMAL</b>	: Bass frequencies are sent only to the Left and Right Front channels. Select this mode when the Center Speaker is smaller than the Left and Right speakers.
<b>WIDE</b>	: Bass frequencies are sent to the Left, Center and Right speakers. Select this mode when the Center speaker is approximately the same size as the Left and Right speakers.
<b>PHANTOM</b>	: Center channel information is sent to the Left and Right speakers. Select this mode when you do not have a center channel speaker.

## 3. TEST TONE GENERATOR

The test tone generator generates a test tone ( noise ) to check the balance of sound output from each speaker in the THX CINEMA MODE, ( This circuit is produced under license of Lucasfilm Ltd. ) and the Dolby pro logic mode. ( This circuit is produced under license of the Dolby Laboratories Licensing Corp. )



( Flow of noise signals within the system. )

**Fig. 3**

## 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  $\pm 20$  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 (/02B,K,KK) 1000 KHz (USA)	Level 300 $\mu$ V/m (50dB/m) Mod. 400 Hz 30%	Tuning point	LA06	Output level (L or R) <b>Maximum</b> 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 (MW)

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 (/02B,K,KK) 600 KHz (USA)	Level 300 - 400 $\mu$ V/m Mod. 400 Hz 30%	603 KHz (/02B,K,KK) 600 KHz (USA)	LA01	Output level (L or R) <b>Maximum</b> at TAPE-OUT
2		1404 KHz (/02B,K,KK) 1400 KHz (USA)	Level 300 - 400 $\mu$ V/m Mod. 400 Hz 30%	1404 KHz (/02B,K,KK) 1400 KHz (USA)	CA01	Output level (L or R) <b>Maximum</b> at TAPE-OUT
3	Repeat step 1 and 2 until sensitivity be maximized.					

### 3. AM Tracking Adjustment (LW)

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)	171 KHz	Level 300 - 400 $\mu$ V/m Mod. 400 Hz 30%	171 KHz	LA03	Output level (L or R) <b>Maximum</b> at TAPE-OUT
2		270 KHz	Level 300 - 400 $\mu$ V/m Mod. 400 Hz 30%	270 KHz	CA08	Output level (L or R) <b>Maximum</b> at TAPE-OUT
3	Repeat step 1 and 2 until sensitivity be maximized.					

### 4. 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 (/02B,K,KK) 1000 KHz (USA)	500 $\mu$ V/m (54 dB/m)	999 KHz (/02B,K,KK) 1000 KHz (USA)	RA11	"TUNED" indicate on FLD
2			1000 $\mu$ 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.

### 5. 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 ohm)	98 MHz	500 $\mu$ V (54 dB) MONO 1 KHz / Dev.40KHz 53.3% (/02B,K) MONO 1KHz / Dev.75KHz 100%(USA,KK)	98 MHz (P2)	L201	Distortion level <b>Minimum</b> at TAPE-OUT

### 6. 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 ohm)	98 MHz	6.3 $\mu$ V (16 dB) MONO 1 KHz / Dev.40KHz 53.3% (/02B,K) MONO 1KHz / Dev.75KHz 100%(USA,KK)	98 MHz (P2)	R212	"TUNED" indicate on FLD
2			Over mentioned level +3 dB			AUTO SCAN

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

### 7. 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 ohm)	98 MHz	500 $\mu$ V (54 dB) L or R 1KHz / Dev. 40KHz 53.3% PILOT 19KHz / Dev. 6KHz 8% (/02B,K)	98 MHz (P2)	IF COIL in FRONT END	Distortion level <b>Minimum</b> at TAPE-OUT
2			L or R 1KHz / Dev. 67.5KHz 90% PILOT 19KHz / Dev. 6.75KHz 9%(USA,KK)		R218	Distortion level <b>Minimum</b> at TAPE-OUT

**REMARK:** Adjustment with **R128** is not necessary when the distortion level is less than 1.0% with adjusting IF coil.

### 8. 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 ohm)	98 MHz	same specification as <b>FM STEREO distortion adjustment.</b> Input only L channel.	98 MHz (P2)	R211	Output level <b>Minimum</b> at TAPE-OUT channel R
2		98 MHz	same specification as <b>FM STEREO distortion adjustment.</b> Input only R channel.			98 MHz (P2)

### 9. 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 ohm/V)	LD	CX67	2.5V $\pm$ 0.1V

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



## 9. ELECTRICAL PARTS LIST

### ASSIGNMENT OF COMMON PARTS CODES.

#### RESISTOR

R\*\*\* : 1) GD05 x x x 140, Carbon film fixed resistor,  $\pm 5\%$  1/4W  
 R\*\*\* : 2) GD05 x x x 160, Carbon film fixed resistor,  $\pm 5\%$  1/6W

① — Resistance value

Examples :

① Resistance value  
 0.1 $\Omega$ ...001    10 $\Omega$ ...100    1k $\Omega$ ...102    100k $\Omega$ ...104  
 0.5 $\Omega$ ...005    18 $\Omega$ ...180    2.7k $\Omega$ ...272    680k $\Omega$ ...684  
 1 $\Omega$ ...010    100 $\Omega$ ...101    10k $\Omega$ ...103    1M $\Omega$ ...105  
 6.8 $\Omega$ ...068    390 $\Omega$ ...391    22k $\Omega$ ...223    4.7M $\Omega$ ...475

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

#### C\*\*\* : CERAMIC CAP.

1) DD1 x x x x 370, Ceramic capacitor  
 Disc type  
 Temp.coeff.P350~N1000,50V  
 ① Capacity value  
 ② Tolerance

Examples

① Tolerance (Capacity deviation)  
 $\pm 0.25\text{pF}$ ...0  
 $\pm 0.5\text{pF}$ ...1  
 $\pm 5\%$ ...5

\* Tolerance of COMMON PARTS handled here are as follows :

0.5pF~ 5pF... $\pm 0.25\text{pF}$   
 6pF~ 10pF... $\pm 0.5\text{pF}$   
 12pF~ 560pF... $\pm 5\%$

② 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.

1) DK16 x x x x 300, High dielectric constant ceramic capacitor  
 Disc type  
 Temp.chara. 2B4, 50V  
 ① Capacity value

Examples

① Capacity value  
 100pF...101    1000pF...102    10000pF...103  
 470pF...471    2200pF...222

#### C\*\*\* : ELECTROLY CAP. ( $\text{E}$ ), FILM CAP. ( $\text{F}$ )

1) EA x x x x x x 10, Electrolytic capacitor  
 One-way lead type, Tolerance  $\pm 20\%$   
 ① Working voltage  
 ② Capacity value

Examples

① Capacity value  
 0.1 $\mu\text{F}$ ...104    4.7 $\mu\text{F}$ ...475    100 $\mu\text{F}$ ...107  
 0.33 $\mu\text{F}$ ...334    10 $\mu\text{F}$ ...106    330 $\mu\text{F}$ ...337  
 1 $\mu\text{F}$ ...105    22 $\mu\text{F}$ ...226    1100 $\mu\text{F}$ ...118  
 2200 $\mu\text{F}$ ...228

② Working voltage

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

2) DF15 x x x x 350 — Plastic film capacitor  
 DF15 x x x x 310 — One-way type, Mylar  $\pm 5\%$  50V  
 DF16 x x x x 310 — Plastic film capacitor  
 One-way type, Mylar  $\pm 10\%$  50V  
 ① Capacity value

Examples

① Capacity value  
 0.001 $\mu\text{F}$ (1000pF)...102    0.1 $\mu\text{F}$ ...104  
 0.0018 $\mu\text{F}$ ...182    0.56 $\mu\text{F}$ ...564  
 0.01 $\mu\text{F}$ ...103    1 $\mu\text{F}$ ...105  
 0.015 $\mu\text{F}$ ...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.	Type No.	Description
NH05 x x x 140	RF25S x x x x $\Omega$ J	( $\pm 5\%$ 1/4W )
NH05 x x x 120	RF50S x x x x $\Omega$ J	( $\pm 5\%$ 1/2W )
NH85 x x x 110	RF73B2A x x x x $\Omega$ J	( $\pm 5\%$ 1/10W )
NH95 x x x 140	RF73B2E x x x x $\Omega$ J	( $\pm 5\%$ 1/4W )

\* Resistance value    Resistance value (0.1-10k $\Omega$ )

#### 2. Matsushita Electronic Components Co., Ltd

Part No.	Type No.	Description
NF05 x x x 140	ERD-2FCJ x x x	( $\pm 5\%$ 1/4W )
RF05 x x x 140		
NF02 x x x 140	ERD-2FCG x x x	( $\pm 2\%$ 1/4W )
RF02 x x x 140		

\* Resistance value    \* Resistance value

Examples :

\* Resistance value  
 0.1 $\Omega$ ...001    10 $\Omega$ ...100    1k $\Omega$ ...102    100k $\Omega$ ...104  
 0.5 $\Omega$ ...005    18 $\Omega$ ...180    2.7k $\Omega$ ...272    680k $\Omega$ ...684  
 1 $\Omega$ ...010    100 $\Omega$ ...101    10k $\Omega$ ...103    1M $\Omega$ ...105  
 6.8 $\Omega$ ...068    390 $\Omega$ ...391    22k $\Omega$ ...223    4.7M $\Omega$ ...475

### ABBREVIATION AND MARKS

1	ANT. : ANTENNA	2	BATT. : BATTERY
3	CAP. : CAPACITOR	4	CER. : CERAMIC
5	CONN. : CONNECTING	6	DIG. : DIGITAL
7	HP : HEADPHONE	8	MIC. : MICROPHONE
9	$\mu$ -PRO : MICROPROCESSOR	10	REC. : RECORDING
11	RES. : RESISTOR	12	SPK : SPEAKER
13	SW : SWITCH	14	TRANSF. : TRANSFORMER
15	TRIM. : TRIMMING	16	TRS. : TRANSISTOR
17	VAR. : VARIABLE	18	X'TAL : CRYSTAL
19		20	
21		22	
23		24	
25		26	
27		28	
29		30	

### NOTE ON SAFETY :

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

### 安全上の注意 :

$\blacktriangle$ 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., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
			<b>PB04-BACK-UP CIRCUIT BOARD</b>	
			<b>PB04-CAPACITORS</b>	
CB02		4822 124 41134	ELECT 10µF 63V	EA10606310
CB07		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CB08		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
▲CB09		4822 122 33276	CER. 0.01µF ±20%	DK17103840
CB10		4822 122 41134	ELECT 10µF 63V	EA10606310
			<b>PB04-CAPACITORS (COMMON)</b> ELECTROLYTIC CAPACITORS, ±20% : CB01, CB03, CB04, CB06	
C***				
			<b>PB04-RESISTORS</b>	
▲RB01		4822 052 10109	10Ω ±5% 1/4W	GG05100140
▲RB03		4822 053 10471	470Ω ±5% 1W	GA05471010
▲RB07	U		2.2MΩ ±10% 1/2W	RC10225820
			<b>PB04-RESISTORS (COMMON)</b> CARBON FILM FIXED RESISTOR, ±5% 1/6W : RB04, RB05, RB08	
R***				
			<b>PB04-SEMICONDUCTORS</b>	
▲DB01		4822 130 82421	DIODE 1D3 1A/200V	HD20002710
▲DB04		4822 130 81729	ZENER MTZJ33D	HD33301000
DB05		4822 130 80273	ZENER NTJ8.2C	HD30821000
DB06		4822 130 82421	DIODE 1D3 1A/200V	HD20002710
▲DB07		4822 130 82421	DIODE 1D3 1A/200V	HD20002710
▲DB08		4822 130 82421	DIODE 1D3 1A/200V	HD20002710
			<b>PB04-MISCELLANEOUS</b>	
▲QB01		4822 209 31927	IC PQ05RR1	HC38905320
QB02		4822 130 62335	TRS. 2SD2033 (E)	HT420331E0
			<b>PB04-MISCELLANEOUS</b>	
▲FB01	KKBL/02B	4822 253 30387	FUSE 4A 250V	FS10400850
▲FB01	U		FUSE 8A 125V	FS10800540
▲FB02	/02B	4822 252 11189	FUSE T2.5A 250V	FS20250200
▲FB03	/02B	4822 252 11189	FUSE T2.5A 250V	FS20250200
			<b>PB04-MISCELLANEOUS</b>	
▲JB03	U		JACK, AC OUTLET 2P	YJ04002040
▲JB03	/02B	4822 267 31952	JACK, AC OUTLET 2P	YJ04002080
			<b>PB04-MISCELLANEOUS</b>	
▲LB01	U		POWER TRANSF.	TS14823230
▲LB01	/02B	4822 146 10582	POWER TRANSF.	TS14823240
▲LB01	KBL,KGL		POWER TRANSF.	TS14823250
▲LB01	KBL		POWER TRANSF.	TS14823260
▲LB02	KKBL	4822 280 80773	RELAY, VS24MB-NR	LY10240240
			<b>PE04-ELE.VOL CIRCUIT BOARD</b>	
			<b>PE04-CAPACITORS</b>	
CE01		4822 124 90352	ELECT 10µF 16V	OA10601620
CE02		4822 124 90352	ELECT 10µF 16V	OA10601620
CE03				
		4822 124 21894	ELECT 10µF 16V	EJ10601610
CE06				
CE07		4822 124 22274	ELECT 4.7µF 50V	OA47505020
CE08		4822 124 22274	ELECT 4.7µF 50V	OA47505020
CE09				
		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CE12				
CE13		4822 124 22274	ELECT 4.7µF 50V	OA47505020
CE14		4822 124 22274	ELECT 4.7µF 50V	OA47505020

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
CE15				
		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CE18				
CE19		4822 124 22274	ELECT 4.7µF 50V	OA47505020
CE20		4822 124 22274	ELECT 4.7µF 50V	OA47505020
CE21				
		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CE24				
CE25		4822 124 22274	ELECT 4.7µF 50V	OA47505020
CE26		4822 124 22274	ELECT 4.7µF 50V	OA47505020
CE27				
		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CE30				
CE31		4822 124 22274	ELECT 4.7µF 50V	OA47505020
CE32		4822 124 22274	ELECT 4.7µF 50V	OA47505020
CE33		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CE34		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CE35		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CE36		4822 124 21894	ELECT 10µF 16V	EJ10601610
CE41		4822 124 90352	ELECT 10µF 16V	OA10601620
CE42		4822 124 90352	ELECT 10µF 16V	OA10601620
CE43				
		4822 124 21894	ELECT 10µF 16V	EJ10601610
CE46				
CV69				
		4822 124 21894	ELECT 10µF 16V	EJ10601610
CV73				
CV74		4822 124 23055	ELECT 22µF 16V	EJ22601610
			<b>PE04-CAPACITORS (COMMON)</b> HIGH DIELECTRIC CONSTANT CERAMIC CAPACTOR, ±10% 50V : CV63-CV67,(CV75-CV85(/02B))	
C***				
			PLASTIC FILM CAPACTOR, ±5% 50V : CV51-CV55, CV57-CV62	
C***				
			<b>PE04-RESISTORS (COMMON)</b> CARBON FILM FIXED RESISTOR, ±5% 1/6W : RE01-RE66, RE73-RE82, RV51-RV55, RV57-RV88	
			<b>PE04-SEMICONDUCTORS</b>	
QE01		4822 209 83631	IC NJM4558DD	HC10008090
QE02		4822 209 83631	IC NJM4558DD	HC10008090
QE03		4822 209 83631	IC NJM4558DD	HC10008090
QE04		4822 209 31575	IC TC9213P	HC10304050
QE05		4822 209 31575	IC TC9213P	HC10304050
QE06		4822 209 31575	IC TC9213P	HC10304050
QE07				
		4822 209 83631	IC NJM4558DD	HC10008090
QE12				
QV51				
		4822 130 43818	TRS. 2SC2878 (A, B)	HT328782A0
QV56				
QV57		4822 209 83631	IC NJM4558DD	HC10008090
QV58		4822 209 83631	IC NJM4558DD	HC10008090
QV59		4822 209 83631	IC NJM4558DD	HC10008090
QV60		4822 130 43818	TRS. 2SC2878 (A, B)	HT328782A0

(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)	POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
JV52	/02B		<b>PE04-MISCELLANEOUS</b>					<b>PL04-VIDEO SELECTOR</b>	
JV52	U,KBL, KGL,KKGL		TERMINAL, 6P RCA PIN JACK	YT02060550				<b>CIRCUIT BOARD</b>	
JV53	/02B	4822 265 10731	TERMINAL, 1P RCA PIN JACK	YT02041170				<b>PL04-CAPACITORS</b>	
JV53	U,KBL, KGL,KKGL		TERMINAL, 4P RCA PIN JACK	YT02041120	CL01		4822 124 23055	ELECT 22µF 10V	EJ22601010
JV54	/02B		TERMINAL, 1P RCA PIN JACK	YT02011030	CL02		4822 124 21894	ELECT 10µF 16V	EJ10601610
JV54	U,KBL, KGL,KKGL	4822 290 81638	TERMINAL, 1P RCA PIN JACK	YT02010790	CL03		4822 124 23055	ELECT 22µF 10V	EJ22601010
LV01	/02B	4822 157 70813	CHOKO COIL 47µH	LC14733800	CL04		4822 124 21894	ELECT 10µF 16V	EJ10601610
LV02	/02B	4822 157 70813	CHOKO COIL 47µH	LC14733800	CL05		4822 124 23055	ELECT 22µF 10V	EJ22601010
LV03	/02B	4822 157 70813	CHOKO COIL 47µH	LC14733800	CL06		4822 124 21894	ELECT 10µF 16V	EJ10601610
			<b>PF04-TONE CIRCUIT BOARD</b>		CL09		4822 124 23055	ELECT 22µF 10V	EJ22601010
			<b>PF04-CAPACITORS</b>		CL10		4822 124 21894	ELECT 10µF 16V	EJ10601610
CF01		4822 124 90352	ELECT 10µF 16V	OA10601620	CL14		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
CF02		4822 124 90352	ELECT 10µF 16V	OA10601620	CL15		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
CF03		4822 124 90352	ELECT 10µF 16V	OA10601620	CL16		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CF04		4822 124 41539	ELECT 47µF 16V	OA47601620	CL17		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CF09		4822 122 32265	CER. 100PF ±5%	DD15101300	CL20		4822 124 23055	ELECT 22µF 10V	EJ22601010
CF10		4822 122 32265	CER. 100PF ±5%	DD15101300	CL22		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CF11		4822 122 32265	CER. 100PF ±5%	DD15101300	CL23		4822 124 23055	ELECT 22µF 10V	EJ22601010
CF21		4822 124 41539	ELECT 47µF 16V	OA47601620	CL31		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010
CF22		4822 124 41539	ELECT 47µF 16V	OA47601620	CX49		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
CF23		4822 124 41539	ELECT 47µF 16V	OA47601620	CX52		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CF25		4822 124 23055	ELECT 22µF 16V	EJ22601610	CX54		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CF26		4822 124 23055	ELECT 22µF 16V	EJ22601610	CX55		4822 122 32143	CER. 22PF ±5%	DD15220300
CF27		4822 124 23055	ELECT 22µF 16V	EJ22601610	CX56		4822 122 32143	CER. 22PF ±5%	DD15220300
CF28		4822 124 90358	ELECT 22µF 16V	OA22601620	CX57	/02B,KBL,KGL	4822 122 32143	CER. 22PF ±5%	DD15220300
CF29	U,KBL, KGL, KKBL	4822 122 31205	CER. 47PF ±5%	DD15470300	CX58	/02B,KBL,KGL	4822 122 32143	CER. 22PF ±5%	DD15220300
CF32					CX59		4822 124 23054	ELECT 0.47µF 50V	EJ47405010
CF40		4822 124 90354	ELECT 100µF 16V	OA10701620	CX60		4822 122 32027	CER. 56PF ±5%	DD15560300
CF41		4822 124 90354	ELECT 100µF 16V	OA10701620	CX61		4822 122 23053	ELECT 1µF 50V	EJ10505010
CF43					CX63		4822 122 23053	ELECT 1µF 50V	EJ10505010
CF48		4822 122 40588	CER. 0.022µF ±20%	DA17223110	CX66		4822 122 31205	CER. 47PF ±5%	DD15470300
			<b>PF04-CAPACITORS (COMMON)</b>		CX67		4822 125 50384	TRIM. 20PF	CT12000200
			HIGH DIELECTRIC CONSTANT CERAMIC CAPACITOR, ±10% 1/6W : CF09, CF10, CF11		CX70		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
			PLASTIC FILM CAPACITOR, ±5% 50V : CF13-CF20,(CF29-CF31/02B))		CX72		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C***					CX74		4822 124 23053	ELECT 1µF 50V	EJ10505010
					CX75		4822 124 23055	ELECT 22µF 10V	EJ22601010
			<b>PF04-RESISTORS</b>					<b>PL04-CAPACITORS (COMMON)</b>	
RF41		4822 117 12511	100K Ω (B) x 4 VAR.	RG01040140				ELECTROLYTIC CAPACITOR, ±20% : CL18, CL19, CL21, CX50,CX51, CX53, CX69, CX73, CX76	
RF42		4822 117 12511	100K Ω (B) x 4 VAR.	RG01040140				PLASTIC FILM CAPACITOR, ±5% 50V : CX64, CX65	
RF43		4822 100 12007	100K Ω (W) VAR.	RK01040620				HIGH DIELECTRIC CONSTANT CERAMIC CAPACITOR, ±10% 50V : CX62	
			<b>PF04-RESISTORS (COMMON)</b>					<b>PL04-RESISTORS</b>	
			CARBON FILM FIXED RESISTOR, ±5% 1/6W : RF01-RF11, RF13,RF14,RF15, RF17-RF24,RF29-RF32,RF45, RF46, RF81-RF84		RL07		4822 111 41355	75 Ω ±5% 1/6W	GD05750160
					RL11		4822 111 41355	75 Ω ±5% 1/6W	GD05750160
					RL12		4822 111 41355	75 Ω ±5% 1/6W	GD05750160
			<b>PF04-SEMICONDUCTORS</b>					<b>PL04-RESISTORS (COMMON)</b>	
QF01		4822 209 70044	IC NJM2058D	HC10031090				CARBON FILM FIXED RESISTOR, ±5% 1/6W : RL01-RL06, RL09, RL10,RL17, RL18, RL19, RX51, RX52,RX53, (RX54/02B, KBL, KGL)) RX55, RX56, RX57, RX59-RX62, RX65-RX69	
QF02		4822 209 83631	IC NJM4558DD	HC10008090					
QF03		4822 209 83631	IC NJM4558DD	HC10008090					

(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
<b>PL04-SEMICONDUCTORS</b>				
DL01   DL10		4822 130 32362	DIODE 1SS176	HD20002000
DX61		4822 130 32362	DIODE 1SS176	HD20002000
QL01		4822 209 31538	IC LC7824	HC10275030
QL02		4822 209 31538	IC LC7824	HC10275030
QL03		4822 209 32513	IC MC14576	HC10046170
QL04		4822 209 63455	IC NJM2233BD	HC12233090
QX60		4822 209 12668	IC LC74760-9004	HC10328030
QX61		4822 130 42298	TRS. 2SC536SP	HT30001000
QX62		4822 130 42594	DIG. DTC144ES	BA20002000
QX63		4822 209 14611	IC NJM2267D	HC10141090
QX64		4822 130 42298	TRS. 2SC536SP	HT30001000
<b>PL04-MISCELLANEOUS</b>				
JL01		4822 265 10728	TERMINAL, 4P RCA PIN JACK	YT02041140
JL02		4822 265 31299	TERMINAL, 3P RCA PIN JACK	YT02030340
LX51		4822 157 62909	CHOKO COIL, 22μH	LC12233800
LX52		4822 157 63312	CHOKO COIL, 5.6μH	LC15623800
LX53		4822 242 73843	EMI FILTER	FM12223010
XX51		4822 242 80288	CRYSTAL, 14.31818MHz	JX14001260
XX52	02B,KBL,KGL	4822 242 73903	CRYSTAL, 17.7MHz	JX17001260
<b>PL54-S-VIDEO CIRCUIT BOARD</b>				
<b>PL54-CAPACITORS</b>				
CL51   CL64 CL65   CL70 CL72 CL73 CL76 CL77 CL79		4822 124 21894	ELECT 10μF 16V	EJ10601610
		4822 122 40617	CER. 0.1μF +80% -20%	DD38104010
		4822 122 40043	CER. 0.01μF +80% -20%	DK18103310
		4822 122 40043	CER. 0.01μF +80% -20%	DK18103310
		4822 122 40043	CER. 0.01μF +80% -20%	DK18103310
		4822 122 40043	CER. 0.01μF +80% -20%	DK18103310
RL63   RL68		4822 111 41355	75 Ω ±5% 1/6W	GD05750160
<b>PL54-RESISTORS (COMMON) CARBON FILM FIXED RESISTOR, ±5% 1/6W : RL51~RL62, RL69~RL74</b>				
<b>PL54-SEMICONDUCTORS</b>				
QL51   QL54 QL55 QL56 QL57		4822 209 31538	IC LC7824	HC10275030
		4822 209 32513	IC MC14576	HC10046170
		4822 209 32513	IC MC14576	HC10046170
		4822 209 32513	IC MC14576	HC10046170
<b>PL54-MISCELLANEOUS</b>				
JL51		4822 265 20725	TERMINAL, 2P	YT02021320
JL52		4822 265 20725	TERMINAL, 2P	YT02021320
JL53		4822 265 31302	TERMINAL, 3P	YT02030350

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
<b>PL94-AUX IN CIRCUIT BOARD</b>				
<b>PL94-CAPACITORS</b>				
CL91		4822 124 21894	ELECT 10μF 16V	EJ10601610
CL92		4822 124 23055	ELECT 22μF 16V	EJ22601610
CL93		4822 124 21894	ELECT 10μF 16V	EJ10601610
CL94		4822 124 21894	ELECT 10μF 16V	EJ10601610
<b>PL94-CAPACITORS (COMMON) HIGH DIELECTRIC CONSTANT CERAMIC CAPACTOR, ±10% 50V : (CL97, CL98/02B)</b>				
<b>PL94-RESISTORS</b>				
		4822 111 41355	75 Ω ±5% 1/6W	GD05750160
		4822 111 41355	75 Ω ±5% 1/6W	GD05750160
		4822 111 41355	75 Ω ±5% 1/6W	GD05750160
<b>PL94-RESISTORS (COMMON) CARBON FILM FIXED RESISTOR, ±5% 1/6W : RL91, RL95, RL96</b>				
<b>PP04-SURROUND AMP CIRCUIT BOARD</b>				
<b>PP04-CAPACITORS</b>				
CP03		4822 124 80542	ELECT 10μF 63V	EQ10606390
CP04		4822 124 80542	ELECT 10μF 63V	EQ10606390
CP07	/02B	4822 122 31188	CER. 3P ±0.25PF	DD10030300
CP07	/02B	4822 122 32185	CER. 10P ±0.5PF	DD11100300
CP08	/02B	4822 122 31188	CER. 3P ±0.25PF	DD10030300
CP08	/02B	4822 122 32185	CER. 10P ±0.5PF	DD11100300
CP09				
		4822 124 21895	ELECT 0.22μF 50V	EJ22405010
CP12				
CP13		4822 124 23626	ELECT 100μF 63V	EA10706310
CP14		4822 124 41134	ELECT 10μF 63V	EA10606310
CP15		4822 124 23626	ELECT 100μF 63V	EA10706310
CP16		4822 124 41134	ELECT 10μF 63V	EA10606310
CP17		4822 124 23055	ELECT 22μF 10V	EJ22601010
CP21	/02B	4822 122 31205	CER. 47PF ±5%	DD15470300
CP22	/02B	4822 122 31205	CER. 47PF ±5%	DD15470300
<b>PP04-CAPACITORS (COMMON) HIGH DIELECTRIC CONSTANT CERAMIC CAPACTOR, ±10% 50V : CP01, CP02</b>				
<b>ELECTROLYTIC CAPACTOR, ±20% : CP05, CP06</b>				
<b>PP04-RESISTORS</b>				
		4822 116 82231	51K Ω ±5% 1/6W	GG05513160
		4822 116 82231	51K Ω ±5% 1/6W	GG05513160
		4822 113 80363	0.22 Ω ±10% 3W	GO10222030
		4822 113 80363	0.22 Ω ±10% 3W	GO10222030
▲ RR09		4822 116 82231	51K Ω ±5% 1/6W	GG05513160
▲ RR10		4822 116 82231	51K Ω ±5% 1/6W	GG05513160
▲ RR11		4822 113 80363	0.22 Ω ±10% 3W	GO10222030
▲ RR12		4822 113 80363	0.22 Ω ±10% 3W	GO10222030

(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)	POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
▲RR13		4822 052 10102	1KΩ ±5% 1/6W	GG05102160	QS08		4822 130 61892	TRS. 2SD2144S (U, V)	HT421442A0
▲RR14		4822 052 10102	1KΩ ±5% 1/6W	GG05102160	QS09		4822 130 60588	DIG. DTC114ES	BA20001000
▲RR21		4822 053 10109	10Ω ±5% 1W	GA05100010	QS10		4822 130 61227	DIG. DTA114ES	BA10001000
▲RR22		4822 053 10109	10Ω ±5% 1W	GA05100010	QS11		4822 209 32552	IC LC78211	HC10308030
▲RR25		4822 052 10101	100Ω ±5% 1/6W	GG05101160	QS12		4822 209 32554	IC LC78213	HC10310030
▲RR26		4822 052 10101	100Ω ±5% 1/6W	GG05101160	QS13		4822 209 83631	IC NJM4558DD	HC10008090
▲RR99		4822 052 10109	10Ω ±5% 1/4W	GG05100140					
			<b>PP04-RESISTORS (COMMON)</b> CARBON FILM FIXED RESISTOR, ±5% 1/6W : RP01-RP08, RP15-RP20, RP23, RP24, RP27, RP28, RP29		JS01		4822 290 61244	<b>PS04-MISCELLANEOUS</b> TERMINAL, 6P RCA PIN JACK	YT02060490
<b>R***</b>					JS02		4822 290 81723	TERMINAL, 4P RCA PIN JACK	YT02041070
			<b>PP04-SEMICONDUCTORS</b>					<b>PS54-V-AUDIO FUNCTION CIRCUIT BOARD</b>	
DP01		4822 130 80837	DIODE HSS81TD	HD20027010	CG51		4822 124 21899	ELECT 4.7μF 25V	EJ47502510
DP02		4822 130 80837	DIODE HSS81TD	HD20027010	CG52		4822 124 21899	ELECT 4.7μF 25V	EJ47502510
▲QP01		4822 209 14867	IC STK401-140	HC10357030	CG55		4822 124 21899	ELECT 4.7μF 25V	EJ47502510
QP02		4822 130 43233	TRS. 2SC2240 (GR, BL)	HT322402A0	I				
QP03		4822 130 43233	TRS. 2SC2240 (GR, BL)	HT322402A0	CG60		4822 124 21899	ELECT 4.7μF 25V	EJ47502510
QP04		4822 130 42949	TRS. 2SA970 (GR, BL)	HT109702A0	CG63		4822 124 21899	ELECT 4.7μF 25V	EJ47502510
			<b>PP04-SEMICONDUCTORS</b>		CG64		4822 124 21899	ELECT 4.7μF 25V	EJ47502510
LP01		4822 157 70022	AIR, SPK CHOCK COIL	ML08010030	CS51		4822 124 21894	ELECT 10μF 16V	EJ10601610
LP02		4822 157 70022	AIR, SPK CHOCK COIL	ML08010030	I				
			<b>PS04-AUDIO FUNCTION CIRCUIT BOARD</b>		CS58		4822 124 21899	ELECT 4.7μF 25V	EJ47502510
			<b>PS04-CAPACITORS</b>		CS59		4822 124 21899	ELECT 4.7μF 25V	EJ47502510
CS01		4822 124 21894	ELECT 10μF 16V	EJ10601610	CS60		4822 122 40617	CER. 0.1μF +80% -20%	DD38104010
I					CS61		4822 122 40617	CER. 0.1μF +80% -20%	DD38104010
CS06					CS68		4822 122 40617	CER. 0.1μF +80% -20%	DD38104010
CS07		4822 124 21899	ELECT 4.7μF 25V	EJ47502510	CS69		4822 122 40617	CER. 0.1μF +80% -20%	DD38104010
CS08		4822 124 21899	ELECT 4.7μF 25V	EJ47502510	CS70		4822 122 40617	CER. 0.1μF +80% -20%	DD38104010
CS11		4822 124 21899	ELECT 4.7μF 25V	EJ47502510	CS93		4822 124 21894	ELECT 10μF 16V	EJ10601610
CS12		4822 124 21899	ELECT 4.7μF 25V	EJ47502510	CS94		4822 124 21894	ELECT 10μF 16V	EJ10601610
CS15		4822 124 21899	ELECT 4.7μF 25V	EJ47502510				<b>PS54-CAPACITORS (COMMON)</b> HIGH DIELECTRIC CONSTANT CERAMIC CAPACITOR, ±10% 1/6W : (CG61, CG62 [02B])	
CS16		4822 124 21899	ELECT 4.7μF 25V	EJ47502510	<b>C***</b>			CS71-CS90	
CS17		4822 124 21894	ELECT 10μF 16V	EJ10601610				ELECTROLYTIC CAPACITOR, ±20% :	
CS18		4822 124 21894	ELECT 10μF 16V	EJ10601610	<b>C***</b>			CS62, CS63, CS65, CS66	
CS19		4822 122 40617	CER. 0.1μF +80% -20%	DD38104010				<b>PS54-RESISTORS (COMMON)</b> CARBON FILM FIXED RESISTOR, ±5% 1/6W : RG51-RG72, RS51-RS86, RS93, RS94	
CS21		4822 122 40617	CER. 0.1μF +80% -20%	DD38104010	<b>R***</b>			<b>PS54-SEMICONDUCTORS</b>	
CS22		4822 122 40617	CER. 0.1μF +80% -20%	DD38104010				TRS. 2SD2144S, U, V	HT421442A0
			<b>PS04-CAPACITORS (COMMON)</b> ELECTROLYTIC CAPACITOR, ±20% : CS09, CS10, CS13, CS14		QG51		4822 130 61892	TRS. 2SD2144S, U, V	HT421442A0
<b>C***</b>					QG52		4822 130 61892	TRS. 2SD2144S, U, V	HT421442A0
			HIGH DIELECTRIC CONSTANT CERAMIC CAPACITOR, CS23-CS38		QG55		4822 209 83631	IC NJM4558DD	HC10008090
<b>C***</b>					QG56		4822 209 83631	IC NJM4558DD	HC10008090
			<b>PS04-RESISTORS (COMMON)</b> CARBON FILM FIXED RESISTOR, ±5% 1/6W : RS01-RS34, RS37-RS40		QG57		4822 209 31575	IC TC9213P	HC10304050
<b>R***</b>					QG59		4822 130 61892	TRS. 2SD2144S, U, V	HT421442A0
			<b>PS04-SEMICONDUCTORS</b>		QG60		4822 130 61892	TRS. 2SD2144S, U, V	HT421442A0
QS01		4822 209 83631	IC NJM4558DD	HC10008090	QS51		4822 209 83631	IC NJM4558DD	HC10008090
QS02		4822 209 83631	IC NJM4558DD	HC10008090	I				
QS03		4822 209 83631	IC NJM4558DD	HC10008090	QS55		4822 209 32552	IC LC78211	HC10308030
QS05		4822 209 83631	IC NJM4558DD	HC10008090	QS56		4822 209 32553	IC LC78212	HC10309030
QS07		4822 130 61892	TRS. 2SD2144S (U, V)	HT421442A0	QS57		4822 130 61892	TRS. 2SD2144S, U, V	HT421442A0
					QS59		4822 130 61892	TRS. 2SD2144S, U, V	HT421442A0
					QS60		4822 130 61892	TRS. 2SD2144S, U, V	HT421442A0

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POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
QS61		4822 130 61227	DIG. DTA114ES	BA10001000
QS62		4822 130 60558	DIG. DTC114ES	BA20001000
			<b>PS54-MISCELLANEOUS</b>	
JS51		4822 290 61244	TERMINAL, 6P RCA PIN JACK	YT02060490
JS52		4822 265 10729	TERMINAL, 8P RCA PIN JACK	YT02080130
			<b>PU04-FRONT CIRCUIT BOARD</b>	
			<b>PS54-CAPACITORS</b>	
CU01		4822 122 40588	CER. 0.022 $\mu$ F $\pm$ 20%	DA17223110
CU02		4822 124 23056	ELECT 47 $\mu$ F 10V	EJ47601010
CU03		4822 124 80087	ELECT 220 $\mu$ F 6.3V	EJ22700610
CU04		4822 122 40588	CER. 0.022 $\mu$ F $\pm$ 20%	DA17223110
CU05		4822 126 11558	CER. 0.1 $\mu$ F $\pm$ 20%	DA17104110
CU07		4822 124 90406	BIG ELECT 0.22F 5.5V	EX22300530
CU10		4822 122 40588	CER. 0.022 $\mu$ F $\pm$ 20%	DA17223110
CU13		4822 122 40617	CER. 0.1 $\mu$ F +80% -20%	DD38104010
CU14	/02B	4822 122 30043	CER. 0.01 $\mu$ F +80% -20%	DK18103310
CU15	/02B	4822 122 30043	CER. 0.01 $\mu$ F +80% -20%	DK18103310
			<b>PU04-RESISTORS (COMMON)</b>	
			CARBON FILM FIXED RESISTOR, $\pm$ 5% 1/6W :	
			RU01-RU09, RU11, RU14-RU20, RU22-RU27, RU29, RU30, RU40-RU46	
			<b>PU04-SEMICONDUCTORS</b>	
DU01		4822 130 80589	DIODE 1SS132	HD20029210
DU04		4822 130 32362	DIODE 1SS176	HD20002000
DU05				
DU10		4822 130 80589	DIODE 1SS132	HD20029210
DU13		4822 130 80589	DIODE 1SS132	HD20029210
DU15		4822 130 80589	DIODE 1SS132	HD20029210
DU17	/02B	4822 130 80589	DIODE 1SS132	HD20029210
DU19		4822 130 32362	DIODE 1SS176	HD20002000
DU20		4822 130 32362	DIODE 1SS176	HD20002000
DU21		4822 130 32362	DIODE 1SS176	HD20002000
DU22		4822 130 80326	L.E.D. LT3D8B (RED)	HI10062320
DU23				
DU28		4822 130 32362	DIODE 1SS176	HD20002000
DU48		4822 130 32362	DIODE 1SS176	HD20002000
DU49		4822 130 32362	DIODE 1SS176	HD20002000
DU50		4822 130 32362	DIODE 1SS176	HD20002000
QU01		4822 209 14868	$\mu$ -PRO TMP87CP71F	HU260JT13F
QU02		4822 130 61227	DIG. DTA114ES	BA10007210
QU03		4822 130 42298	TRS. 2SC536SP	HT30001000
QU04		4822 130 42594	DIG. DTC144ES	BA20012210
QU07		4822 130 60588	DIG. DTC114ES	BA20010210
QU08		4822 130 42594	DIG. DTC144ES	BA20012210
QU09		4822 130 42594	DIG. DTC144ES	BA20012210
QU10		4822 130 42682	DIG. DTA144ES	BA10010210
QU11		4822 130 63211	DIG. DTA114ES	BA10003210
QU12		4822 130 61227	DIG. DTA114ES	BA10007210
QU14		4822 130 42682	DIG. DTA144ES	BA10010210
QU15		4822 130 42594	DIG. DTC144ES	BA20012210
QU16		4822 130 83519	PHOTO UNIT, IR RECIVER	HW10001210
QU17		4822 130 61227	DIG. DTA114ES	BA10007210
QU18		4822 209 31932	IC 74HC125	HC712500B0

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
			<b>PU04-MISCELLANEOUS</b>	
SU01		4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU02	/02B	4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU03		4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU04	/02B	4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU05		4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU06	/02B	4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU07		4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU08		4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU10		4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU13		4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU19		4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU21		4822 276 20508	PUSH SWITCH, TACT	SP01011280
SU23				
SU34		4822 276 20508	PUSH SWITCH, TACT	SP01011280
VU01		4822 130 91499	DISPLAY UNIT, FIP12DM8R	HQ31206060
XU01		4822 242 72066	CERMIC VIB. CST8.0MHz	FQ08004010
			<b>PU54-MASTER VOL CIRCUIT BOARD</b>	
			<b>PU54-CAPACITORS</b>	
CU51		4822 126 10364	CER. 100PF $\pm$ 10%	DA16101110
CU52		4822 126 10364	CER. 100PF $\pm$ 10%	DA16101110
			<b>PU54-RESISTORS</b>	
			1 $\Omega$ $\pm$ 5% 1/6W	GG05100140
			<b>PU54-RESISTORS (COMMON)</b>	
			CARBON FILM FIXED RESISTOR, $\pm$ 5% 1/6W :	
			RU51-RU54, RU57, RU58	
			<b>PU54-SEMICONDUCTORS</b>	
QU51		4822 130 42298	TRS. 2SC536SP	HT30001000
QU54				
			<b>PU54-MISCELLANEOUS</b>	
			ROTARY SW, MASTER VOL.	SR02010040
			<b>PU94-POWER SW CIRCUIT BOARD (MOMS)</b>	
SU91	U, KKGL	4822 276 12217	PUSH SW, POWER (MOMS)	SP02011570
SU91	/02B, KBL, KGL	4822 276 12512	PUSH SW, POWER (MOMS)	SP02011670
			<b>PV04-DIRECT IN CIRCUIT BOARD</b>	
			<b>PV04-CAPACITORS</b>	
CT06	/02B	4822 122 30043	CER. 0.01 $\mu$ F +80% -20%	DK18103310
CV01		4822 124 21894	ELECT 10 $\mu$ F 16V	EJ10601610
CV06		4822 122 40617	CER. 0.1 $\mu$ F +80% -20%	DD38104010
CV07		4822 122 40617	CER. 0.1 $\mu$ F +80% -20%	DD38104010
CV08		4822 124 21894	ELECT 10 $\mu$ F 16V	EJ10601610
CV13		4822 124 21894	ELECT 10 $\mu$ F 16V	EJ10601610
CV14		4822 124 21894	ELECT 10 $\mu$ F 16V	EJ10601610
CV16	/02B	4822 122 30043	CER. 0.01 $\mu$ F +80% -20%	DK18103310
CV17	/02B	4822 122 30043	CER. 0.01 $\mu$ F +80% -20%	DK18103310
CV18	/02B	4822 122 30043	CER. 0.01 $\mu$ F +80% -20%	DK18103310

(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)	POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
CV19		4822 124 21894	ELECT 10 $\mu$ F 16V	EJ10601610	CY01	U, KKGL	4822 124 21899	ELECT 4.7 $\mu$ F 25V	EJ47502510
CV22					CY01	KBL, KGL	4822 124 21899	ELECT 4.7 $\mu$ F 25V	EJ47502510
CV31					CY02	/02B	4822 126 12867	ELECT 1000 $\mu$ F 6.3V	OA108006Q0
CV36		4822 124 21894	ELECT 10 $\mu$ F 16V	EJ10601610	CY02	KBL, KGL	4822 126 12867	ELECT 1000 $\mu$ F 6.3V	OA108006Q0
CV37		4822 122 40588	CER. 0.022 $\mu$ F $\pm$ 20%	DA17223110	CY02	U, KKGL	4822 122 40617	CER. 0.1 $\mu$ F +80% -20%	DD38104010
CV38		4822 126 10935	ELECT 100 $\mu$ F 6.3V	EJ10700610	CY04		4822 122 40617	CER. 0.1 $\mu$ F +80% -20%	DD38104010
CV39		4822 122 40617	CER. 0.1 $\mu$ F +80% -20%	DD38104010	CY06		4822 122 31205	CER. 47PF $\pm$ 5%	DD15470300
CV40		4822 122 40588	CER. 0.022 $\mu$ F $\pm$ 20%	DA17223110	CY07	KBL, KGL	4822 122 31205	CER. 47PF $\pm$ 5%	DD15470300
CV41		4822 122 40617	CER. 0.1 $\mu$ F +80% -20%	DD38104010	CY07	U, KKGL	4822 122 31205	CER. 47PF $\pm$ 5%	DD15470300
CV42		4822 122 40617	CER. 0.1 $\mu$ F +80% -20%	DD38104010	CY08	KBL, KGL	4822 122 31205	CER. 47PF $\pm$ 5%	DD15470300
			<b>PV04-CAPACITORS (COMMON)</b> HIGH DIELECTRIC CONSTANT CERAMIC CAPACITOR, $\pm$ 10% 50V : (CV15, CV23-CV28, CV43-CV48, CV50, CV97 [/02B])		CY08	U, KKGL	4822 122 31205	CER. 47PF $\pm$ 5%	DD15470300
C***			PLASTIC FILM CAPACITOR, $\pm$ 5% 50V : CV09-CV12		CY09		4822 122 31205	CER. 47PF $\pm$ 5%	DD15470300
C***			<b>PV04-RESISTORS (COMMON)</b> CARBON FILM FIXED RESISTOR, $\pm$ 5% 1/6W : RT19, RV01-RV18, RV21-RV30, RV33-RV46		CY10	KBL, KGL	4822 122 30043	CER. 0.01 $\mu$ F +80% -20%	DK18103310
R***			<b>PV04-SEMICONDUCTORS</b>		CY10	U, KKGL	4822 122 30043	CER. 0.01 $\mu$ F +80% -20%	DK18103310
DV01		4822 130 32362	DIODE 1SS176	HD20002000	CY11	KBL, KGL	4822 122 30043	CER. 0.01 $\mu$ F +80% -20%	DK18103310
DV02		4822 130 32362	DIODE 1SS176	HD20002000	CY11	U, KKGL	4822 122 30043	CER. 0.01 $\mu$ F +80% -20%	DK18103310
QV01		4822 209 83631	IC NJM4558DD	HC10008090	CY12		4822 122 31205	CER. 47PF $\pm$ 5%	DD15470300
QV02		4822 209 83631	IC NJM4558DD	HC10008090	CY13	KBL, KGL	4822 122 30043	CER. 0.01 $\mu$ F +80% -20%	DK18103310
QV03		4822 209 83631	IC NJM4558DD	HC10008090	CY13	U, KKGL	4822 122 30043	CER. 0.01 $\mu$ F +80% -20%	DK18103310
QV04		4822 209 32553	IC LC78212	HC10309030	CY14		4822 122 40617	CER. 0.1 $\mu$ F +80% -20%	DD38104010
QV05		4822 209 83631	IC NJM4558DD	HC10008090	CY15		4822 122 30043	CER. 0.01 $\mu$ F +80% -20%	DK18103310
QV06		4822 209 32553	IC LC78213	HC10310030	CY94	U, KKGL	4822 122 30043	CER. 0.01 $\mu$ F +80% -20%	DK18103310
QV07		4822 209 83631	IC NJM4558DD	HC10008090	CY99	/02B	4822 122 31205	CER. 47PF $\pm$ 5%	DD15470300
JV02	/02B		<b>PV04-MISCELLANEOUS</b> TERMINAL, 6P RCA PIN JACK	YT02060550				<b>PY04-RESISTORS (COMMON)</b> CARBON FILM FIXED RESISTOR, $\pm$ 5% 1/6W : RS91, RS92, RY01-RY15, RY18-RY33 (UY97 [/02B])	
JV02	U, KBL KGL, KKGL		TERMINAL, 6P RCA PIN JACK	YT02060510	R***			<b>PY04-SEMICONDUCTORS</b>	
JV03		4822 267 41009	TERMINAL, 2P RCA PIN JACK	YT02020890	DV01		4822 130 32362	DIODE 1SS176	HD20002000
LV04		4822 242 73843	EMI FILTER	FM12223010	DY04				
LV05		4822 242 73843	EMI FILTER	FM12223010	DY09		4822 130 82421	DIODE 1D3 1A/200V	HD20002710
LV06		4822 242 73843	EMI FILTER	FM12223010	DY10		4822 130 32362	DIODE 1SS176	HD20002000
			<b>PW04-H.P CIRCUIT BOARD</b>		DY11		4822 130 32362	DIODE 1SS176	HD20002000
CW01	/02B	4822 122 30043	<b>PW04-CAPACITORS</b> CER. 0.01 $\mu$ F +80% -20%	DK18103310	DY14		4822 130 80316	ZENER 3.6V	HD30361000
CW02	/02B	4822 122 30043	CER. 0.01 $\mu$ F +80% -20%	DK18103310	QS91		4822 209 83631	IC NJM4558DD	HC10008090
CW03	/02B	4822 122 30043	CER. 0.01 $\mu$ F +80% -20%	DK18103310	QY01		4822 130 61227	DIG. DTA114ES	BA10001000
JW01	U, KBL /02B KGL, KKGL	4822 265 10685	<b>PW04-MISCELLANEOUS</b> JACK, PHONE	YJ01004240	QY02		4822 130 42594	DIG. DTC144ES	BA20002000
JW01			JACK, PHONE	YJ01004330	QY03		4822 130 61227	DIG. DTA114ES	BA10001000
			<b>PY04-CONNECT CIRCUIT BOARD</b>		QY04		4822 130 42594	DIG. DTC144ES	BA20002000
			<b>PY04-CAPACITORS</b>		QY05		4822 130 61227	DIG. DTA114ES	BA10001000
CS91		4822 124 21894	ELECT 10 $\mu$ F 16V	EJ10601610	QY06		4822 130 42594	DIG. DTC144ES	BA20002000
CS92		4822 124 21894	ELECT 10 $\mu$ F 16V	EJ10601610	QY07		4822 130 61227	DIG. DTA114ES	BA10001000
					QY08		4822 130 42594	DIG. DTC144ES	BA20002000
					QY10		4822 209 33024	IC TC9173P	HC10370050
					QY11		4822 209 61704	IC TC9174P	HC10250050
					QY12		4822 209 14612	IC 74HC541	HC754100B0
					QY13		4822 130 42594	DIG. DTC144ES	BA20002000
					QY14		4822 130 61227	DIG. DTA114ES	BA10001000
					QY15		4822 130 42594	DIG. DTC144ES	BA20002000
								<b>P104-TUNER CIRCUIT BOARD</b>	
					CA01		4822 125 50384	TRIM. 20PF	CT12000200
					CA02		4822 122 40306	CER. 0.047 $\mu$ F +80% -20%	DK18473310
					CA03		4822 122 31823	CER. 15PF $\pm$ 5%	DD15150300
					CA04		4822 121 42466	FILM 390PF $\pm$ 5%	DF15391550
					CA05		4822 122 31205	CER. 47PF $\pm$ 5%	DD15470300
					CA06		4822 122 30043	CER. 0.01 $\mu$ F +80% -20%	DK18103310
					CA07	/02B	4822 122 30043	CER. 0.01 $\mu$ F +80% -20%	DK18103310

(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
CA08	/02B	4822 125 50384	TRIM. 20PF	CT12000200
CA09	/02B	4822 122 31823	CER. 15PF ±5%	DD15150300
CA11	/02B	4822 122 31349	CER. 68PF ±5%	DD15680300
CA12	/02B	4822 122 10367	CER. 150PF ±5%	DD15151300
CA13	/02B	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CA14	/02B	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
CA18		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
C201		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C202		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C203		4822 122 40306	CER. 0.047µF +80% -20%	DK18473310
C204		4822 122 40306	CER. 0.047µF +80% -20%	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%	DK18473310
C209		4822 124 23053	ELECT 1µF 50V	EJ10505010
C210		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C211		4822 124 40786	ELECT 2.2µF 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%	DK18473310
C218		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C219		4822 124 21894	ELECT 10µF 16V	EJ10601610
C223		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C224	/02B, KBL, KGL, KKGL	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C225		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C226		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C227	/02B, KBL, KGL	4822 121 42466	FILM 390PF ±5%	DF15391550
C233		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C234		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C303		4822 124 21894	ELECT 10µF 16V	EJ10601610
C304		4822 124 21894	ELECT 10µF 16V	EJ10601610
C305	/02B, KBL, KGL	4822 124 21899	ELECT 4.7µF 25V	EJ47502510
C306	/02B, KBL, KGL	4822 124 21899	ELECT 4.7µF 25V	EJ47502510
C307	/02B, KBL, KGL	4822 124 21894	ELECT 10µF 16V	EJ10601610
C308	/02B, KBL, KGL	4822 124 21894	ELECT 10µF 16V	EJ10601610
C311		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
C312		4822 124 21899	ELECT 4.7µF 25V	EJ47502510
C313	/02B, KBL, KGL	4822 124 21894	ELECT 10µF 16V	EJ10601610
C501		4822 122 31205	CER. 47PF ±5%	DD15470300
C502		4822 122 31205	CER. 47PF ±5%	DD15470300
C504		4822 122 30043	CER. 0.01µF +80% -20%	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%	DK18103310
C511		4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C902	/02B	4822 124 21894	ELECT 10µF 16V	EJ10601610
C905	/02B	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C906	/02B	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C907	/02B	4822 124 21894	ELECT 10µF 16V	EJ10601610
C908	/02B	4822 124 21894	ELECT 10µF 16V	EJ10601610
C909	/02B	4822 124 21899	ELECT 4.7µF 25V	EJ47502510
C910	/02B	4822 124 21894	ELECT 10µF 16V	EJ10601610
C911	/02B	4822 122 30103	CER. 0.022µF +80% -20%	DK18223310
C915	/02B	4822 122 30043	CER. 0.01µF +80% -20%	DK18103310
C***			<b>P104-CAPACITORS (COMMON)</b> ELECTROLYTIC CAPACITOR, ±20% : C207, C214, C216, (C314 /02B, KBL, KGL) C503, C508, (C901 /02B))	

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
C***			PLASTIC FILM CAPACITOR, ±5% 50V : (C217 /02B, U) C301, C302 (C309, C310 [KBL, KGL]) (C912, C913, C914 /02B))	
C***			HIGH DIELECTRIC CONSTANT CERAMIC CAPACITOR, ±10% 50V : (C217 [KBL, KGL, KKGL]) C220, C222 (C227 /02B, U) (C315-C318 /02B) C509, C510 (C903, C904 /02B))	
RA11		4822 100 11352	<b>P104-RESISTORS</b> 22K Ω (B) TRIM.	RA02230780
R207		4822 050 21801	180 Ω ±5% 1/4W	GG05181140
R211		4822 100 11352	22K Ω (B) TRIM.	RA02230780
R212		4822 100 11373	4.7K Ω (B) TRIM.	RA04720780
R217	/02B	4822 050 21801	180 Ω ±5% 1/4W	GG05181140
R217		4822 116 83929	220 Ω ±5% 1/4W	GG05221140
R218	/02B, KBL, KGL	4822 100 11373	4.7K Ω (B) TRIM.	RA04720780
R313	/02B, KBL, KGL	4822 116 83929	220 Ω ±5% 1/4W	GG05221140
R512		4822 053 10271	270 Ω ±5% 1W	GA05271010
R514		4822 052 10479	47 Ω ±5% 1/6W	GG05470160
R906		4822 100 11373	4.7K Ω (B) TRIM.	RA04720780
R910		4822 053 10221	220 Ω ±5% 1W	GA05221010
R***			<b>P104-RESISTORS (COMMON)</b> CARBON FILM FIXED RESISTOR, ±5% 1/6W : RA01, RA02, (RA03, RA04, RA06-RA09, R102, R103 /02B) (R201[U]) R202-R206, R208 R209, R210, R213-R216, R219, R307-R310 (R301-R306, R311, R312 /02B, KBL, KGL) R501-R504, R506, R507, R508, R510, R511, R513, R515, R516, R517 (R901-R905, R907, R908, R909, R911 /02B))	
DA01		4822 125 50416	VARICAP SVC342-L	HD40009030
DA02	/02B	4822 130 33697	DIODE 1SS135	HD20017210
DA03	/02B	4822 125 50416	VARICAP SVC342-L	HD40009030
DA04	/02B	4822 130 33697	DIODE 1SS135	HD20017210
DA05		4822 130 32362	DIODE 1SS176	HD20002000
DA06		4822 130 32362	DIODE 1SS176	HD20002000
D201		4822 130 32362	DIODE 1SS176	HD20002000
D202		4822 130 80318	ZENER 6.8V	HF30681000
D501		4822 130 80317	ZENER 5.1V	HD30511000
D901	/02B	4822 130 80317	ZENER 5.1V	HD30511000
QA01	/02B	4822 209 42298	TRS. 2SC536SP	HT30001000
QA02	/02B	4822 209 42298	TRS. 2SC536SP	HT30001000
QA03	/02B	4822 209 61892	TRS. 2SD2144S (U, V)	HT421442A0
QA04	/02B	4822 209 42682	DIG. DTA144ES	BA10002000
QA04	/02B	4822 209 42682	DIG. DTA144ES	BA10002000
Q201		4822 209 90535	IC LA1836	HC10342030
Q202		4822 130 62294	TRS. 2SC1809SP	HT318091P0
Q203		4822 130 61227	DIG. DTA114ES	BA10007210
Q204		4822 130 42594	DIG. DTC144ES	BA20002000



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POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)	POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
Q301	/02B,KBL,KGL	4822 209 83631	IC NJM4558DD	HC10008090	CR34		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
Q501		4822 209 30178	IC LC7218	HC10221030	CR35		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
Q502		4822 130 42121	F.E.T. 2SK30ATM	HF200300B0	CR36		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
Q503		4822 130 42298	TRS. 2SC536SP	HT30001000	CR37		4822 124 10772	ELECT 100µF 6.3V	EY10700620
Q901	/02B	4822 209 32706	IC LA2232	HC10315030	CR38		4822 126 11583	CER. 0.01µF ±10%	DK96103200
Q902	/02B	4822 209 33818	IC LC7073	HC10333030	CR39		4822 124 11074	ELECT 10µF 16V	EY10601620
Q903	/02B	4822 130 42298	TRS. 2SC536SP	HT30001000	CR40		4822 124 11074	ELECT 10µF 16V	EY10601620
<b>P104-MISCELLANEOUS</b>					CR41		4822 122 33744	CER. 100PF ±5%	DD95101300
A101	/02B	4822 210 10372	VHF TUNER, FE415-G11	AV01202210	CR42		4822 122 33744	CER. 100PF ±5%	DD95101300
A101		4822 210 10397	VHF TUNER, FE337-A05	AV01202220	CR43		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
F201	/02B,KBL,KGL	4822 242 70665	CER. FILTER	FF11070620	CR44		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
F201	U,KKGL	4822 242 70911	CER. FILTER	FF11070610	CR45		4822 126 11695	CER. 330PF ±5%	DD95331300
F202		4822 242 70665	CER. FILTER	FF11070620	CR46		4822 126 13837	CER. 0.1µF ±10%	DK96104200
J101	/02B,KBL,KGL	4822 290 81632	TERMINAL, ANT	YT03030020	CR47		4822 122 33753	CER. 150PF ±5%	DD95151300
J101	U,KKGL	4822 290 81537	TERMINAL, ANT	YT03030080	CR48		4822 126 13396	CER. 0.047µF ±10%	DK96473200
LA01		4822 157 63084	ANT COIL, MW 280µH	LA10295170	CR49		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
LA02		4822 157 70779	OSC COIL, MW	LO70013010	CR50		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
LA03	/02B	4822 157 52714	ANT COIL, LW	LA10295160	CR61		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
LA04	/02B	4822 157 70781	OSC COIL, LW	LO70013020	CR62		4822 124 10772	ELECT 100µF 6.3V	EY10700620
LA05		4822 157 53589	CHOKE COIL, 39mH	LC23960710	CR63		4822 124 10772	ELECT 100µF 6.3V	EY10700620
LA06		4822 242 71509	CER. FILTER	FF10045330	CR64		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
L201		4822 157 63904	I.F.T.COIL, FM DET	LI70376010	CR65		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
L301		4822 157 71737	M.P.X.COIL, 19.38KHz	LS10293020	CR66		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
L302		4822 157 71737	M.P.X.COIL, 19.38KHz	LS10293020	CR67		4822 124 10772	ELECT 100µF 6.3V	EY10700620
L501					CR68		4822 126 11583	CER. 0.01µF ±10%	DK96103200
L504		4822 157 70813	CHOKE COIL, 47µH	LC14733800	CR69		4822 124 11074	ELECT 10µF 16V	EY10601620
S301	KBL,KGL	4822 277 21712	SLIDE SW	SS02021470	CR70		4822 124 11074	ELECT 10µF 16V	EY10601620
X201		4822 242 81608	CERAMIC VIB.	FQ04563040	CR71		4822 122 33744	CER. 100PF ±5%	DD95101300
X501		4822 242 72333	CRYSTAL, 7.2MHz	JX07001260	CR72		4822 122 33744	CER. 100PF ±5%	DD95101300
X901	/02B	4822 242 81608	CERAMIC VIB.	FQ04563040	CR73		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
X902	/02B	4822 242 72527	CERAMIC VIB. 4.00MHz	FQ04004030	CR74		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
<b>P604-THX PRO-LOGIC DSP CIRCUIT BOARD</b>					CR75		4822 126 11695	CER. 330PF ±5%	DD95331300
<b>P604-CAPACITORS</b>					CR76		4822 126 11695	CER. 330PF ±5%	DD95331300
CR01		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200	CR77		4822 122 33753	CER. 150PF ±5%	DD95151300
CR02		4822 124 10772	ELECT 100µF 6.3V	EY10700620	CR78		4822 122 33753	CER. 150PF ±5%	DD95151300
CR03		4822 124 10772	ELECT 100µF 6.3V	EY10700620	CR79		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
CR04		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200	CR80		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
CR05		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200	C601		4822 124 11074	ELECT 10µF 16V	EY10601620
CR06		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200	C602		4822 124 11074	ELECT 10µF 16V	EY10601620
CR07		4822 124 10772	ELECT 100µF 6.3V	EY10700620	C603		4822 122 33753	CER. 150PF ±5%	DD95151300
CR08		4822 126 11583	CER. 0.01µF ±10%	DK96103200	C606				
CR09		4822 124 11074	ELECT 10µF 16V	EY10601620	C607		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
CR10		4822 124 11074	ELECT 10µF 16V	EY10601620	C612				
CR11		4822 122 33744	CER. 100PF ±5%	DD95101300	C617		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
CR12		4822 122 33744	CER. 100PF ±5%	DD95101300	C618		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
CR13		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200	C619		4822 126 11696	CER. 470PF ±5%	DD95471370
CR14		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200	C620		4822 126 11696	CER. 470PF ±5%	DD95471370
CR15		4822 126 11695	CER. 330PF ±5%	DD95331300	C621		4822 124 11074	ELECT 10µF 16V	EY10601620
CR16		4822 126 11695	CER. 330PF ±5%	DD95331300	C622		4822 124 11074	ELECT 10µF 16V	EY10601620
CR17		4822 122 33753	CER. 150PF ±5%	DD95151300	C623		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
CR18		4822 122 33753	CER. 150PF ±5%	DD95151300	C624		4822 124 10772	ELECT 100µF 6.3V	EY10700620
CR19		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200	C625		4822 124 10772	ELECT 100µF 6.3V	EY10700620
CR20		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200	C626		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
CR31		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200	C627		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
CR32		4822 124 10772	ELECT 100µF 6.3V	EY10700620	C628		4822 124 10772	ELECT 100µF 6.3V	EY10700620
CR33		4822 124 10772	ELECT 100µF 6.3V	EY10700620	C629		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
					C630		4822 124 10772	ELECT 100µF 6.3V	EY10700620
					C631		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
					C635				
					I		4822 126 11583	CER. 0.01µF ±10%	DK96103200
					C638				
					C651		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200

(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
C652		4822 124 10772	ELECT 100µF 6.3V	EY10700620
C653		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
C654		4822 124 10772	ELECT 100µF 6.3V	EY10700620
C655		4822 122 33741	CER. 10PF ±0.5PF	DD91100300
C656		4822 126 11663	CER. 12PF ±5%	DD95120300
C657		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
C658		4822 124 10772	ELECT 100µF 6.3V	EY10700620
C659		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
C660		4822 124 10772	ELECT 100µF 6.3V	EY10700620
C661		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
C662		4822 124 10772	ELECT 100µF 6.3V	EY10700620
C663		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
C664		4822 124 10772	ELECT 100µF 6.3V	EY10700620
C665		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
C666		4822 124 10772	ELECT 100µF 6.3V	EY10700620
C667		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
C668		4822 124 10772	ELECT 100µF 6.3V	EY10700620
C671		4822 124 11074	ELECT 10µF 16V	EY10601620
C672		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
C673		4822 124 11074	ELECT 10µF 16V	EY10601620
C676		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
C677		4822 126 11687	CER. 0.1µF +80% -20%	DK98104200
C678		4822 122 33744	CER. 100PF ±5%	DD95101300
C679		4822 122 33744	CER. 100PF ±5%	DD95101300
<b>P604-RESISTORS, CHIP</b>				
C641		4822 116 82487	0 Ω ±5% 1/16W	NN05000610
C642		4822 116 82487	0 Ω ±5% 1/16W	NN05000610
RR01		4822 051 30682	6.8K Ω ±5% 1/16W	NN05682610
RR02		4822 051 30682	6.8K Ω ±5% 1/16W	NN05682610
RR03		4822 051 30103	10K Ω ±5% 1/16W	NN05103610
RR04		4822 051 30103	10K Ω ±5% 1/16W	NN05103610
RR05		4822 051 30223	22K Ω ±5% 1/16W	NN05223610
RR10				
RR21		4822 051 30682	6.8K Ω ±5% 1/16W	NN05682610
RR22		4822 051 30682	6.8K Ω ±5% 1/16W	NN05682610
RR23		4822 051 30103	10K Ω ±5% 1/16W	NN05103610
RR24		4822 051 30103	10K Ω ±5% 1/16W	NN05103610
RR25		4822 051 30223	22K Ω ±5% 1/16W	NN05223610
RR26		4822 051 30223	22K Ω ±5% 1/16W	NN05223610
RR27		4822 051 30223	22K Ω ±5% 1/16W	NN05223610
RR28		4822 051 30273	27K Ω ±5% 1/16W	NN05273610
RR29		4822 051 30223	22K Ω ±5% 1/16W	NN05223610
RR30		4822 051 30273	27K Ω ±5% 1/16W	NN05273610
RR41		4822 051 30473	47K Ω ±5% 1/16W	NN05473610
RR42		4822 051 30473	47K Ω ±5% 1/16W	NN05473610
RR43		4822 051 30103	10K Ω ±5% 1/16W	NN05103610
RR46				
RR47		4822 051 30223	22K Ω ±5% 1/16W	NN05223610
RR50				
RR71		4822 116 82487	0 Ω ±5% 1/16W	NN05000610
RR74		4822 116 82487	0 Ω ±5% 1/16W	NN05000610
RR75		4822 116 82487	0 Ω ±5% 1/16W	NN05000610
RR76		4822 116 82487	0 Ω ±5% 1/16W	NN05000610
RR78		4822 116 82487	0 Ω ±5% 1/16W	NN05000610
RR79		4822 116 82487	0 Ω ±5% 1/16W	NN05000610
RR81		4822 116 82487	0 Ω ±5% 1/16W	NN05000610
RR82		4822 116 82487	0 Ω ±5% 1/16W	NN05000610
RR85		4822 116 82487	0 Ω ±5% 1/16W	NN05000610

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
R601		4822 051 30102	1K Ω ±5% 1/16W	NN05102610
R602		4822 051 30102	1K Ω ±5% 1/16W	NN05102610
R603		4822 051 30473	47K Ω ±5% 1/16W	NN05473610
R604		4822 051 30473	47K Ω ±5% 1/16W	NN05473610
R605		4822 051 30103	10K Ω ±5% 1/16W	NN05103610
R614				
R615		4822 051 30221	220 Ω ±5% 1/16W	NN05221610
R616		4822 051 30221	220 Ω ±5% 1/16W	NN05221610
R617		4822 051 30103	10K Ω ±5% 1/16W	NN05103610
R618		4822 051 30103	10K Ω ±5% 1/16W	NN05103610
R619		4822 051 30221	220 Ω ±5% 1/16W	NN05221610
R620		4822 051 30221	220 Ω ±5% 1/16W	NN05221610
R621		4822 051 30103	10K Ω ±5% 1/16W	NN05103610
R622		4822 116 82487	0 Ω ±5% 1/16W	NN05000610
R661		4822 051 30222	2.2K Ω ±5% 1/16W	NN05222610
R662		4822 051 30222	2.2K Ω ±5% 1/16W	NN05222610
R666		4822 051 30222	2.2K Ω ±5% 1/16W	NN05222610
R667		4822 051 30222	2.2K Ω ±5% 1/16W	NN05222610
R673		4822 116 82487	0 Ω ±5% 1/16W	NN05000610
R674		4822 116 82487	0 Ω ±5% 1/16W	NN05000610
R697		4822 051 30104	100K Ω ±5% 1/16W	NN05104610
R698		4822 116 82487	0 Ω ±5% 1/16W	NN05000610
R699		4822 116 82487	0 Ω ±5% 1/16W	NN05000610
L606		4822 116 82487	0 Ω ±5% 1/16W	NN05000610
L607		4822 111 90972	0 Ω ±5% 1/8W	RI05000180
<b>P604-SEMICONDUCTORS</b>				
Q601		4822 209 14613	IC LC83016JE	HC10359030
Q602		4822 209 14866	IC LC83017JE	HC10360030
Q603		4822 209 91009	IC LC32464PM-80	HC10338030
Q604		4822 209 91009	IC LC32464PM-80	HC10338030
Q605		4822 209 14614	IC AK4320 (DAC)	HC10015480
Q606		4822 209 14614	IC AK4320 (DAC)	HC10015480
Q607		4822 209 14614	IC AK4320 (DAC)	HC10015480
Q608		4822 209 14865	IC AK5389 (ADC)	HC10016480
Q609		4822 209 14615	IC NJM2115M	HC10172090
Q612				
Q613		4822 209 71451	IC NJM4558M (Y)	HC10011090
Q618				
Q622		4822 209 31903	IC NJM79L05UA	HC99005090
Q623		4822 130 60146	DIG. DTC144EK	BA20004210
<b>P604-MISCELLANEOUS</b>				
L601		4822 157 70322	EMI FILTER	FM32102010
L602				
L605		4822 157 10884	EMI FILTER	FN31000010
X671		4822 242 81793	OTHER VIB. 22.5792MHz	FZ02255030
<b>P704-MAIN AMP CIRCUIT BOARD</b>				
<b>P704-CAPACITORS</b>				
CN04	/02B	4822 124 21982	ELECT 3.3µF 50V	EJ33505010
CN04		4822 124 40786	ELECT 2.2µF 50V	EJ22505010
CN05		4822 122 40617	CER. 0.1µF +80% -20%	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%	DD38104010
CN11		4822 122 40617	CER. 0.1µF +80% -20%	DD38104010

(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U.K)	POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U.K)
CN15	/02B	4822 122 30043	CER. 0.01μF +80% -20%	DK18103310	▲RN35		4822 052 10109	10 Ω ±5% 1/6W	GG05100160
CN16	/02B	4822 122 30043	CER. 0.01μF +80% -20%	DK18103310	▲RN43				
C701		4822 124 22275	ELECT 47μF 10V	OA47601020	▲RN46		4822 052 10101	100 Ω ±5% 1/6W	GG05101160
C702		4822 124 22275	ELECT 47μF 10V	OA47601020	▲RN51		4822 052 10122	1.2K Ω ±5% 1/6W	GG05122160
C703	U,KGL,KGL KKGL	4822 122 31349	CER. 68PF ±5%	DD15680300	▲RN57		4822 052 10101	100 Ω ±5% 1/6W	GG05101160
C704	U,KGL,KGL KKGL	4822 122 31349	CER. 68PF ±5%	DD15680300	▲RN58		4822 052 10101	100 Ω ±5% 1/6W	GG05101160
C709			ELECT 1μF 100V	EA10510010	RN63		4822 101 11664	100 Ω (B), TRIM.	RA01010780
C710			ELECT 1μF 100V	EA10510010	RN64		4822 101 11664	100 Ω (B), TRIM.	RA01010780
C711		4822 124 23562	ELECT 10μF 100V	OA10610020	RN70		4822 101 11664	100 Ω (B), TRIM.	RA01010780
C712		4822 124 23562	ELECT 10μF 100V	OA10610020	▲R723				
C715		4822 122 31205	CER. 47PF ±5%	DD15470300	▲R726		4822 052 10561	560 Ω ±5% 1/6W	GG05561160
C716		4822 122 31205	CER. 47PF ±5%	DD15470300	▲R729				
C719					▲R732		4822 052 10561	560 Ω ±5% 1/6W	GG05561160
C722		4822 124 40751	ELECT 470μF 63V	OA47706320	▲R737				
C723					▲R740		4822 052 10569	56 Ω ±5% 1/6W	GG05560160
C726		4822 124 90351	ELECT 0.1μF 50V	OA10405020	R743		4822 100 20681	2.2K Ω (B), TRIM.	RA02220780
C751		4822 124 22275	ELECT 47μF 10V	OA47601020	R744		4822 100 20681	2.2K Ω (B), TRIM.	RA02220780
C752	U,KGL,KGL KKGL	4822 122 31349	CER. 68PF ±5%	DD15680300	▲R749				
C756		4822 124 23562	ELECT 10μF 100V	OA10610020	▲R752		4822 052 10228	2.2 Ω ±5% 1/6W	GG05022160
C758		4822 122 31205	CER. 47PF ±5%	DD15470300	▲R753		4822 050 21801	180 Ω ±5% 1/4W	GG05181140
C759			ELECT 1μF 100V	EA10510010	▲R754		4822 050 21801	180 Ω ±5% 1/4W	GG05181140
C760		4822 124 40751	ELECT 470μF 63V	OA47706320	▲R755				
C761		4822 124 40751	ELECT 470μF 63V	OA47706320	▲R758		4822 052 10109	10 Ω ±5% 1/4W	GG05100140
C762		4822 124 41604	ELECT 0.1μF 50V	EJ10405010	▲R759		4822 113 80612	0.18 Ω 5W x 2 ARRAY	BZ10182020
C763		4822 124 41604	ELECT 0.1μF 50V	EJ10405010					
▲C801		4822 126 12453	CER. 0.01μF +80% -20%	DK18103560	▲R760		4822 113 80612	0.18 Ω 5W x 2 ARRAY	BZ10182020
▲C802		4822 124 11846	ELECT 27000μF 63V	OB27906310	▲R761		4822 052 10109	10 Ω ±5% 1/6W	GG05100160
▲C803		4822 124 11846	ELECT 27000μF 63V	OB27906310	▲R762		4822 052 10109	10 Ω ±5% 1/6W	GG05100160
▲C804		4822 126 12453	CER. 0.01μF +80% -20%	DK18103560	▲R763		4822 053 10109	10 Ω ±5% 1W	GA05100010
▲C805		4822 124 11847	ELECT 10000μF 63V	EB10906380	▲R764		4822 053 10109	10 Ω ±5% 1W	GA05100010
▲C806		4822 124 11847	ELECT 10000μF 63V	EB10906380	▲R776		4822 052 10561	560 Ω ±5% 1/6W	GG05561160
C807		4822 122 30043	CER. 0.01μF +80% -20%	DK18103310	▲R777		4822 052 10561	560 Ω ±5% 1/6W	GG05561160
C808		4822 122 30043	CER. 0.01μF +80% -20%	DK18103310	▲R779		4822 052 10561	560 Ω ±5% 1/6W	GG05561160
C811		4822 122 30043	CER. 0.01μF +80% -20%	DK18103310	▲R780		4822 052 10561	560 Ω ±5% 1/6W	GG05561160
C812		4822 122 30043	CER. 0.01μF +80% -20%	DK18103310	▲R783		4822 052 10569	56 Ω ±5% 1/6W	GG05560160
C815		4822 122 30043	CER. 0.01μF +80% -20%	DK18103310	▲R784		4822 052 10569	56 Ω ±5% 1/6W	GG05560160
C816		4822 122 30043	CER. 0.01μF +80% -20%	DK18103310	R786		4822 100 20681	2.2K Ω (B), TRIM.	RA02220780
C820		4822 122 40586	CER. 0.01μF ±20%	DA17103110	▲R789		4822 052 10228	2.2 Ω ±5% 1/6W	GG05022160
C824		4822 122 30043	CER. 0.01μF +80% -20%	DK18103310	▲R790		4822 052 10228	2.2 Ω ±5% 1/6W	GG05022160
C899		4822 122 30043	CER. 0.01μF +80% -20%	DK18103310	▲R791		4822 050 21801	180 Ω ±5% 1/4W	GG05181140
			<b>P704-CAPACITORS</b> <b>(COMMON)</b> HIGH DIELECTRIC CONSTANT CERAMIC CAPACITOR, ±10% 50V : (CN13,CN14,C703-C706,C752 [02B]) C713,C714,C753,C757		▲R792		4822 052 10109	10 Ω ±5% 1/4W	GG05100140
			ELECTOROLYTIC CAPACITOR, ±20% : CN03, C707, C708, C754, C809, C810, C813, C814, C817, C818, C821, C822, C823, C825-C829		▲R793		4822 052 10109	10 Ω ±5% 1/4W	GG05100140
			<b>P704-RESISTORS</b>		▲R794		4822 113 80612	0.18 Ω 5W x 2 ARRAY	BZ10182020
▲RN01		4822 052 10122	1.2K Ω ±5% 1/6W	GG05122160	▲R795		4822 052 10109	10 Ω ±5% 1/6W	GG05100160
▲RN02		4822 052 10122	1.2K Ω ±5% 1/6W	GG05122160	▲R796		4822 053 10109	10 Ω ±5% 1W	GA05100010
▲RN20		4822 050 22262	2.2K Ω ±5% 1/6W	GG05222140	▲R801	U,KBL	4822 117 10158	1 Ω ±5% 1/4W	GG05010140
▲RN27		4822 053 10561	560 Ω ±5% 1/6W	GA05561010	▲R804	KGL, KKGL			
▲RN28		4822 053 10561	560 Ω ±5% 1/6W	GA05561010	▲U700	/02B	4822 117 10158	1 Ω ±5% 1/4W	GG05010140
					▲U703				

(VERS. : VERSION, U : U.S.A., K : FAR EAST, /XX : EUROPE)

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
R***			<b>P704-RESISTORS (COMMON)</b> CARBON FILM FIXED RESISTOR, ±5% 1/6W : RN03~RN08,RN10~RN16, RN21~RN26,RN30~RN33,RN36 RN41,RN42,RN52~RN56,RN61, RN62,R701~R722,R727,R728, R733,R734,R741,R742, R745~R748,R765~R775,R778, R781,R785,R787,R788,R797, R798,R799	
			<b>P704-SEMICONDUCTORS</b>	
DN01   DN04 DN07 DN08 DN09 DN51 DN52		4822 130 82421	DIODE 1D3 1A/200V	HD20002710
		4822 130 80837	DIODE HSS81TD	HD20027010
		4822 130 80837	DIODE HSS81TD	HD20027010
		4822 130 82421	DIODE 1D3 1A/200V	HD20002710
		4822 130 80837	DIODE HSS81TD	HD20027010
D701   D704 D705   D708 D709   D712		4822 130 32362	DIODE 1SS176	HD20002000
		4822 130 80837	DIODE HSS81TD	HD20027010
		4822 130 31554	ZENER 4.3V	HD30431000
		4822 130 32362	DIODE 1SS176	HD20002000
		4822 130 32362	DIODE 1SS176	HD20002000
		4822 130 80837	DIODE HSS81TD	HD20027010
		4822 130 80837	DIODE HSS81TD	HD20027010
		4822 130 31554	ZENER 4.3V	HD30431000
		4822 130 31554	ZENER 4.3V	HD30431000
▲D801 ▲D802 ▲D803 ▲D804 D805   D809		4822 130 33133	DIODE D5FB20	HE20012290
		4822 130 33133	DIODE D5FB20	HE20012290
		4822 130 33057	DIODE S2VB20	HE20011290
		4822 130 33057	DIODE S2VB20	HE20011290
		4822 130 82421	DIODE 1D3 1A/200V	HD20002710
▲QN01 ▲QN02 QN03 QN04 QN07 QN08 ▲QN51		4822 130 43233	TRS. 2SC2240 (GR,BL)	HT322402A0
		4822 130 43233	TRS. 2SC2240 (GR,BL)	HT322402A0
		4822 130 42949	TRS. 2SA970 (GR,BL)	HT109702A0
		4822 209 83312	IC TA7317P	HC10042050
		4822 130 42715	TRS. 2SA608SP	HT10001000
		4822 130 60969	TRS. 2SC1627 (O, Y)	HT316272B0
		4822 130 43233	TRS. 2SC2240 (GR,BL)	HT322402A0
Q701   Q706 Q707   Q710 Q711 Q712 Q713 Q714		4822 130 42949	TRS. 2SA970 (GR, BL)	HT109702A0
		4822 130 43283	TRS. 2SC2705 (O, Y)	HT327052A0
		4822 130 61728	TRS. 2SA1360 (O, Y)	HT113602A0
		4822 130 61728	TRS. 2SA1360 (O, Y)	HT113602A0
		4822 130 61737	TRS. 2SC3423 (O, Y)	HT334232A0
		4822 130 61737	TRS. 2SC3423 (O, Y)	HT334232A0
Q715 Q716		4822 130 60117	TRS. 2SC3419Y	HT334191Y0
		4822 130 60117	TRS. 2SC3419Y	HT334191Y0

POS. NO.	VERS. COLOR	PART NO. (FOR EUROPE)	DISCRIPTION	PART NO. (FOR U,K)
▲Q717		4822 130 63312	TRS. 2SC4883 (O, Y)	HT348832A0
▲Q718		4822 130 63312	TRS. 2SC4883 (O, Y)	HT348832A0
▲Q719		4822 130 63308	TRS. 2SA1859 (O, Y)	HT118592A0
▲Q720		4822 130 63308	TRS. 2SA1859 (O, Y)	HT118592A0
▲Q721		4822 130 63121	TRS. 2SC3281 (R, O)	HT332812A0
▲Q722		4822 130 63121	TRS. 2SC3281 (R, O)	HT332812A0
▲Q723		4822 130 63119	TRS. 2SA1302 (R, O)	HT113022A0
▲Q724		4822 130 63119	TRS. 2SA1302 (R, O)	HT113022A0
Q751		4822 130 42949	TRS. 2SA970 (GR,BL)	HT109702A0
Q752		4822 130 42949	TRS. 2SA970 (GR,BL)	HT109702A0
Q753		4822 130 42949	TRS. 2SA970 (GR,BL)	HT109702A0
Q754		4822 130 43283	TRS. 2SC2705 (O, Y)	HT327052A0
Q755		4822 130 43283	TRS. 2SC2705 (O, Y)	HT327052A0
Q756		4822 130 61728	TRS. 2SA1360 (O, Y)	HT113602A0
Q757		4822 130 61737	TRS. 2SC3423 (O, Y)	HT334232A0
Q758		4822 130 60117	TRS. 2SC3419Y	HT334191Y0
▲Q759		4822 130 63312	TRS. 2SC4883 (O, Y)	HT348832A0
▲Q760		4822 130 63308	TRS. 2SA1859 (O, Y)	HT118592A0
▲Q761		4822 130 63121	TRS. 2SC3281 (R, O)	HT332812A0
▲Q762		4822 130 63119	TRS. 2SA1302 (R, O)	HT113022A0
▲Q801		4822 209 83317	IC NJM7815FA	HC38915090
▲Q802		4822 209 31864	IC NJM7915FA	HC39915090
▲Q803		4822 209 31631	IC NJM7805FA	HC38905090
▲Q804		4822 209 63179	IC NJM7905FA	HC39905090
▲Q805		4822 209 31631	IC NJM7805FA	HC38905090
			<b>P704-MISCELLANEOUS</b>	
▲LN01		4822 280 10305	RELAY	LY20180020
▲LN02		4822 280 10305	RELAY	LY20180020
▲LN03		4822 280 20501	RELAY	LY20240410
▲LN51		4822 280 10305	RELAY	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
			<b>P754-SPK TERMINAL CIRCUIT BOARD</b>	
			<b>P754-CAPACITORS</b>	
C727   C730 C731 C732 C733 C734 C764 C765	/02B	4822 122 30043	CER. 0.01µF +80%-20%	DK18103310
	/02B	4822 122 30103	CER. 0.022µF +80%-20%	DK18223310
	/02B	4822 122 30103	CER. 0.022µF +80%-20%	DK18223310
	/02B	4822 122 30043	CER. 0.01µF +80%-20%	DK18103310
	/02B	4822 122 30043	CER. 0.01µF +80%-20%	DK18103310
	/02B	4822 122 30043	CER. 0.01µF +80%-20%	DK18103310
	/02B	4822 122 30043	CER. 0.01µF +80%-20%	DK18103310
J704 J751		4822 290 61179	TERMINAL, SPK 8P	YT01080120
		4822 290 61219	TERMINAL, SPK 2P	YT01020220

**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.