

Service Manual

AV9000 /K1G, /N1G, /S1G, /U1B

AV Pre Tuner

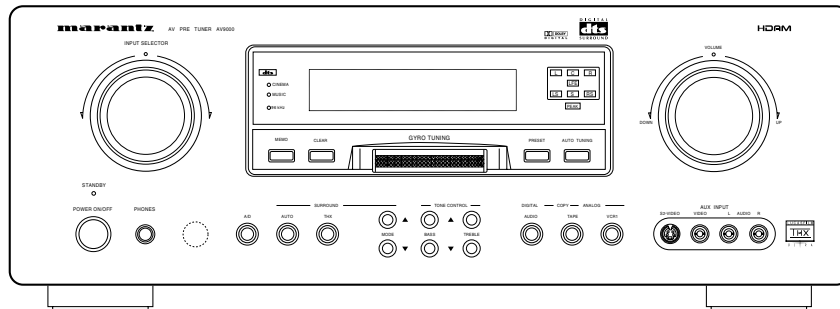


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Please use this service manual with referring to the user guide (D.F.U) without fail.

marantz®

- AV9000 -

MARANTZ DESIGN AND SERVICE

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

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

ORDERING PARTS :

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

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

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

USA

MARANTZ AMERICA, INC.
440 MEDINAH ROAD
ROSELLE, ILLINOIS 60172
USA
PHONE : 630 - 307 - 3100
FAX : 630 - 307 - 2687

EUROPE / TRADING

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P.O.BOX 80002, BUILDING SFF2
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THE NETHERLANDS
PHONE : +31 - 40 - 2732241
FAX : +31 - 40 - 2735578

BRAZIL

MARANTZ BRAZIL
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CEP 04698-970
SAO PAULO, SP, BRAZIL
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FAX : +55 11 534. 8988

PROFESSIONAL AMERICAS

SUPERSCOPE TECHNOLOGIES, INC.
MARANTZ PROFESSIONAL PRODUCTS
2640 WHITE OAK CIRCLE, SUITE A
AURORA, ILLINOIS 60504 USA
PHONE : 630 - 820 - 4800
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CANADA

LENBROOK INDUSTRIES LIMITED
633 GRANITE COURT,
PICKERING, ONTARIO L1W 3K1
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PHONE : 905 - 831 - 6333
FAX : 905 - 831 - 6936

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1 EXPO COURT, P.O. BOX 350
MT. WAVERLEY VIC 3149
AUSTRALIA
PHONE : +61 - 3 - 9543 - 1522
FAX : +61 - 3 - 9543 - 3677

THAILAND

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WANGBURAPAPIROM, PHRANAKORN,
BANGKOK, 10200 THAILAND
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FAX : +66 - 2 - 224 6795

SINGAPORE

WO KEE HONG (S) PTE LTD
WO KEE HONG CENTRE
NO.23, LORONG 8, TOA PAYOH
SINGAPORE 319257
PHONE : +65 2544555
FAX : +65 2502213

TAIWAN

PAI- YUING CO., LTD.
6 TH FL NO, 148 SUNG KIANG ROAD,
TAIPEI, 10429, TAIWAN R.O.C.
PHONE : +886 - 2 - 25221304
FAX : +886 - 2 - 25630415

MALAYSIA

WO KEE HONG ELECTRONICS SDN. BHD.
NO. 102 JALAN SS 21/35, DAMANSARA
UTAMA, 47400 PETALING JAYA
SELANGOR DARUL EHSAN, MALAYSIA
PHONE : +60 3 - 7184666
FAX : +60 3 - 7173828

JAPAN *Technical*

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SAGAMIHARA - SHI, KANAGAWA
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PHONE : +81 42 748 1013
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日本マランツ株式会社

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神奈川県相模原市相模大野7-35-1
営業本部 〒150-0022
東京都渋谷区恵比寿南1-11-9

KOREA

MK ENTERPRISES LTD.
ROOM 604/605, ELECTRO-OFFICETEL, 16-58,
3GA, HANGANG-RO, YONGSAN-KU, SEOUL
KOREA
PHONE : +822 - 3232 - 155
FAX : +822 - 3232 - 154

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 No. 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 1.8 μ V / 16.4 dBf
Signal to Noise Ratio Mono / Stereo 76 / 72 dB
Distortion Mono / Stereo 0.2 / 0.3 %
Stereo Separation 1 kHz 45 dB
Alternate Channel Selectivity \pm 400 kHz 60 dB (U version)
 \pm 300 kHz 60 dB (/K, /N, /S version)
Image Rejection 98 MHz 70 dB
Tuner Output Level 1 kHz, 75 kHz Dev 800 mV (U version)
1 kHz, 40 kHz Dev 800 mV (/K, /N, /S version)

AM TUNER SECTION

Frequency Range 520 – 1710 kHz (/U version)
531 – 1602 or 520 – 1710 kHz (/K version)
531 – 1602 kHz (/N, /S version)
Signal to Noise Ratio 50 dB
Usable Sensitivity Loop 400 μ V
Distortion 400 Hz, 30 % Mod. 0.5 %
Selectivity \pm 20 kHz 70 dB (U version)
 \pm 18 kHz 70 dB (/K, /N, /S version)

AUDIO SECTION

THD Front (20 Hz – 20 kHz) 0.01 % 1 V
Input Sensitivity / Impedance for 1 V output
Linear 240 mV / 47 kohms
Signal to Noise Rate (IHF A) 0.5 V input (Volume : -10 dB)
Linear 80 dB

VIDEO

Television Format NTSC (/U version)
PAL/NTSC (/K, /N, /S version)
Input Level / Impedance 1 Vp-p / 75 ohms
Output Level / Impedance 1 Vp-p / 75 ohms
Video Frequency Response 5 Hz to 8 MHz (- 1 dB)
S/N 60 dB

GENERAL

Power Requirement AC 120V 60 Hz (/U version)
AC 220 50 / 60 Hz (/K version)
AC 230V 50 Hz (/N, /S version)
Power Consumption 55W
Dimension (MAX)
Width 17 - 3/8 inches (440 mm)
Height 6 - 5/16 inches (159 mm)
Depth 14 inches (355 mm)
Weight 17.7 lds. (8 kg)

ACCESSORIES

Remote Control Unit RC-18SR 1

Dolby Digital(AC-3) SECTION

Output Level (Master Volume is set 0 dB)
Front L / R, CENTER, SURROUND L / R
1 kHz, 0 dB FS INPUT 2.4 V
SUBWOOFER (Master Volume is set -5 dB)
30 Hz, 0 dB FS INPUT 3.8 V

Frequency Response

Front L/R, CENTER, SURROUND L / R (LARGE)
20 Hz – 20 kHz -1 dB

Total Harmonic Distortion (Digital)

Front L / R, CENTER, SURROUND L / R (1 kHz) 0.01 % or less
SUBWOOFER (30 Hz) 0.4 % or less
Signal to Noise Ratio (IHF-A) 96 dB
Channel Separation (1 kHz) 70 dB

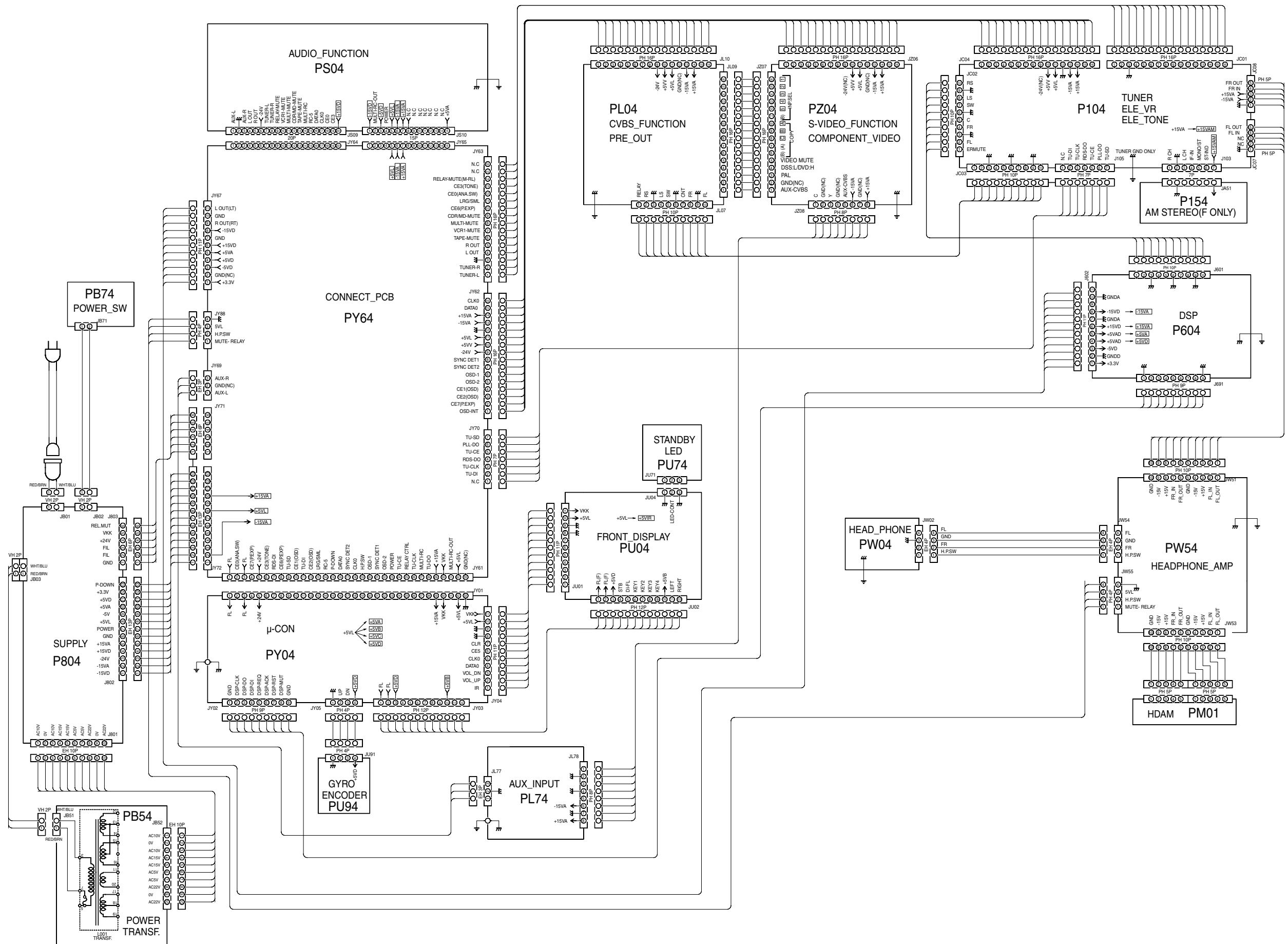
Specifications subject to change without prior notice.

Remark : Bass signal output from Sub Woofer terminal for AV9000

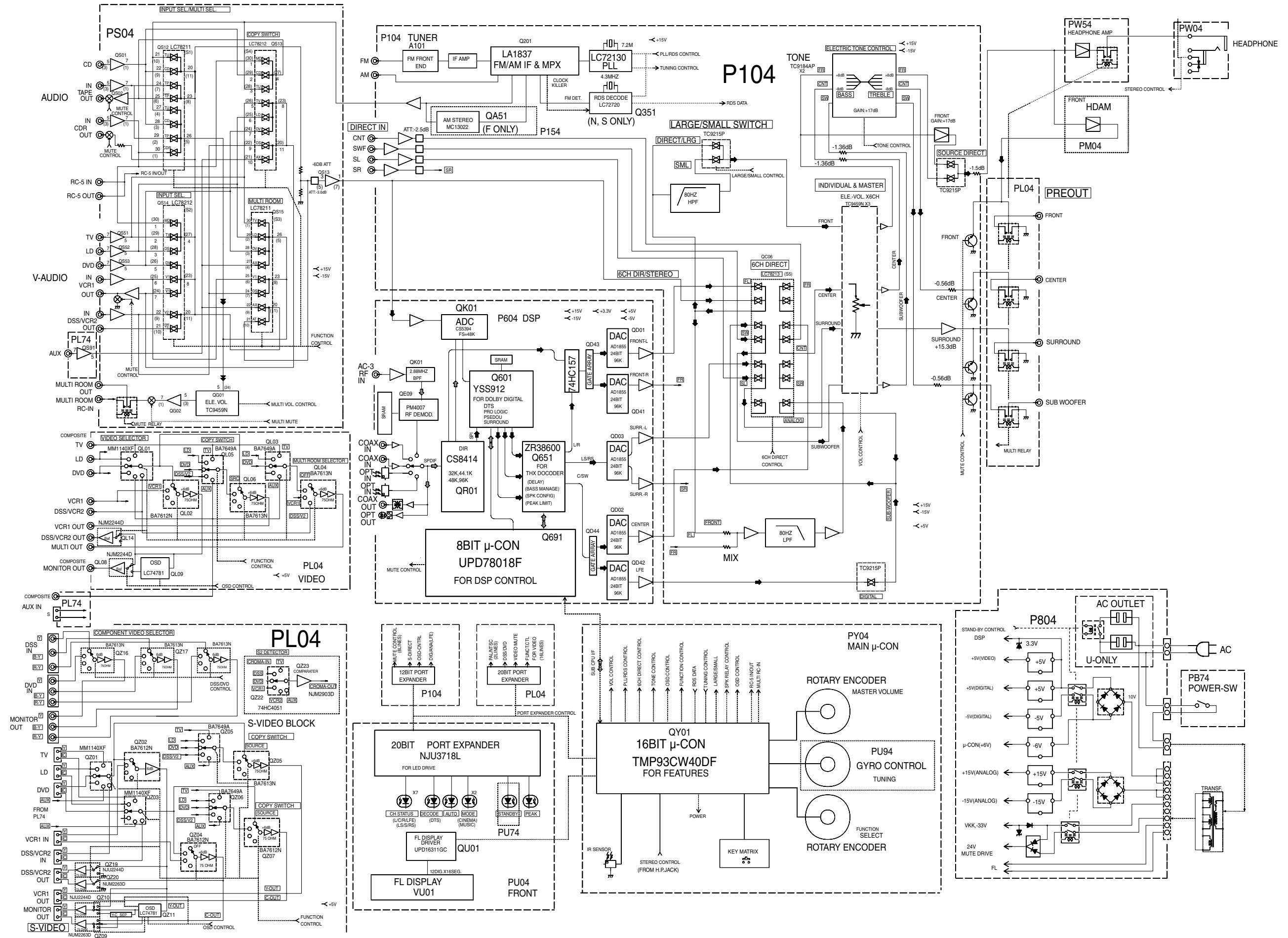
Sub woofer output is not active while all surround modes. Please refer to the following table.

SPK setup				SubWoofer Output by Surround mode									
Sub Woofer	Front	Center	Rear	THX cinema (5.1ch decoding)	DOLBY or DTS (5.1ch decoding)	THX cinema (Pro Logic decoding)	DOLBY (Pro Logic decoding)	STEREO	AUTO (5.1ch decoding)	AUTO (Stereo decoding)	Mono		
ON	Large	Large	Large	LFE	LFE	none	none	L+R	LFE	L+R	none		
			Small	LFE+LS+RS	LFE+LS+RS	none	none	L+R	LFE+LS+RS	L+R	none		
			None	LFE	LFE	none	none	L+R	LFE	L+R	none		
			Small	Large	LFE+C	LFE+C	C	C	L+R	LFE+C	L+R	C	
				Small	LFE+C+LS+RS	LFE+C+LS+RS	C	C	L+R	LFE+C+LS+RS	L+R	C	
				None	LFE+C	LFE+C	C	C	L+R	LFE+C	L+R	C	
		None	Large	LFE	LFE	none	none	L+R	LFE	L+R	none		
			Small	LFE+LS+RS	LFE+LS+RS	none	none	L+R	LFE+LS+RS	L+R	none		
			None	LFE	LFE	none	none	L+R	LFE	L+R	none		
		Small	Large	Large	LFE+L+R	LFE+L+R	L+R	L+R	L+R	LFE+L+R	L+R	none	
				Small	LFE+L+R+LS+RS	LFE+L+R+LS+RS	L+R	L+R	L+R	LFE+L+R+LS+RS	L+R	none	
				None	LFE+L+R	LFE+L+R	L+R	L+R	L+R	LFE+L+R	L+R	none	
				Small	Large	LFE+L+R+C	LFE+L+R+C	L+R+C	L+R+C	L+R	LFE+L+R+C	L+R	C
					Small	LFE+L+R+C+LS+RS	LFE+L+R+C+LS+RS	L+R+C	L+R+C	L+R	LFE+L+R+C+LS+RS	L+R	C
					None	LFE+L+R+C	LFE+L+R+C	L+R+C	L+R+C	L+R	LFE+L+R+C	L+R	C
			None	Large	LFE+L+R	LFE+L+R	L+R	L+R	L+R	LFE+L+R	L+R	C	
				Small	LFE+LS+RS	LFE+LS+RS	L+R	L+R	L+R	LFE+LS+RS	L+R	C	
				None	LFE+L+R	LFE+L+R	L+R	L+R	L+R	LFE+L+R	L+R	C	
	OFF		Large	Large	Large	none	none	none	none	none	none	none	none
					Small	none	none	none	none	none	none	none	none
					None	none	none	none	none	none	none	none	none
		Small			Large	none	none	none	none	none	none	none	none
					Small	none	none	none	none	none	none	none	none
					None	none	none	none	none	none	none	none	none
		None		Large	none	none	none	none	none	none	none	none	
				Small	none	none	none	none	none	none	none	none	
				None	none	none	none	none	none	none	none	none	
				Small	Large	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
					Small	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
					None	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
		None	Large	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited		
			Small	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited		
			None	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited		
			Large	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited		
			Small	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited		
			None	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited		

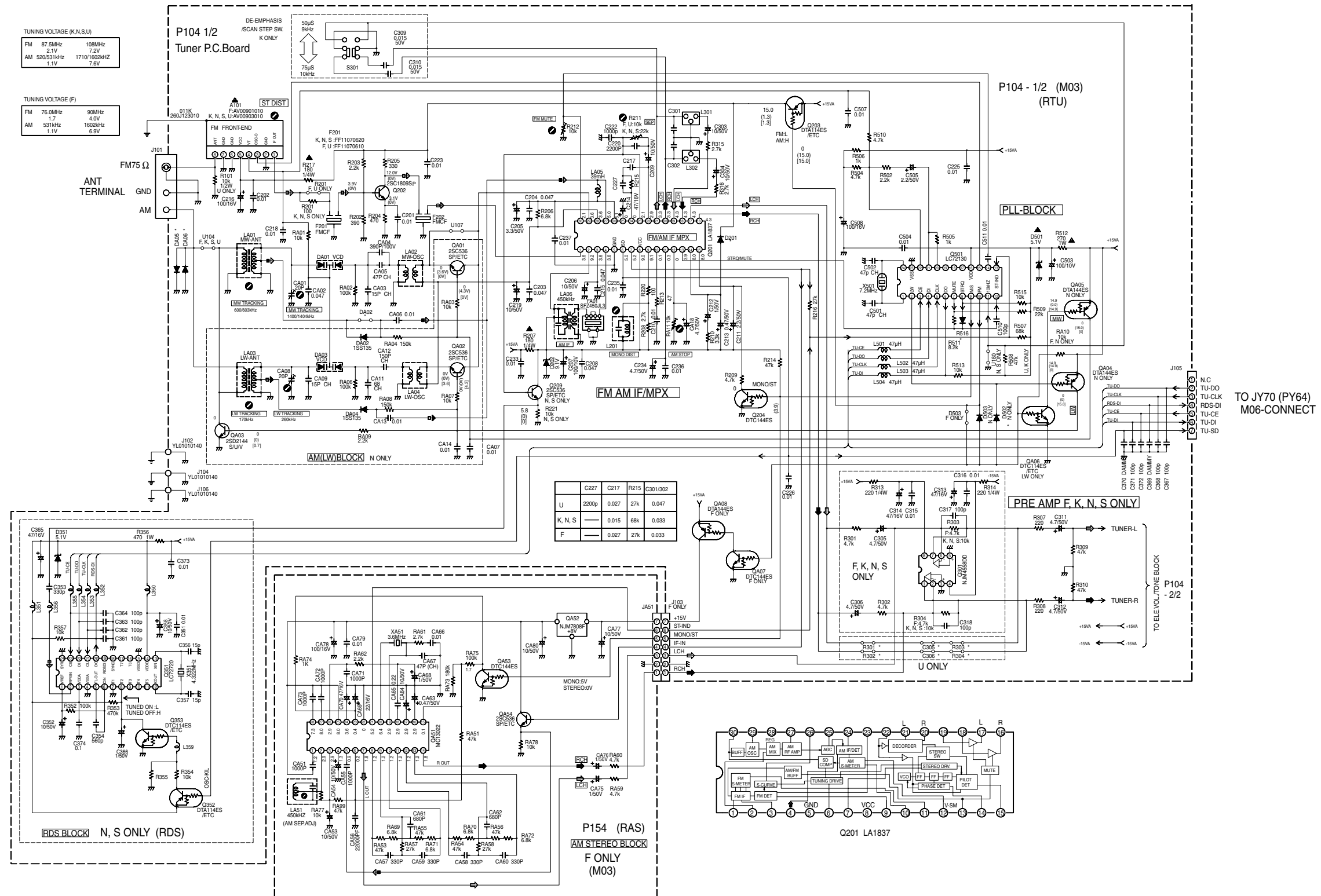
2. WIRING DIAGRAM

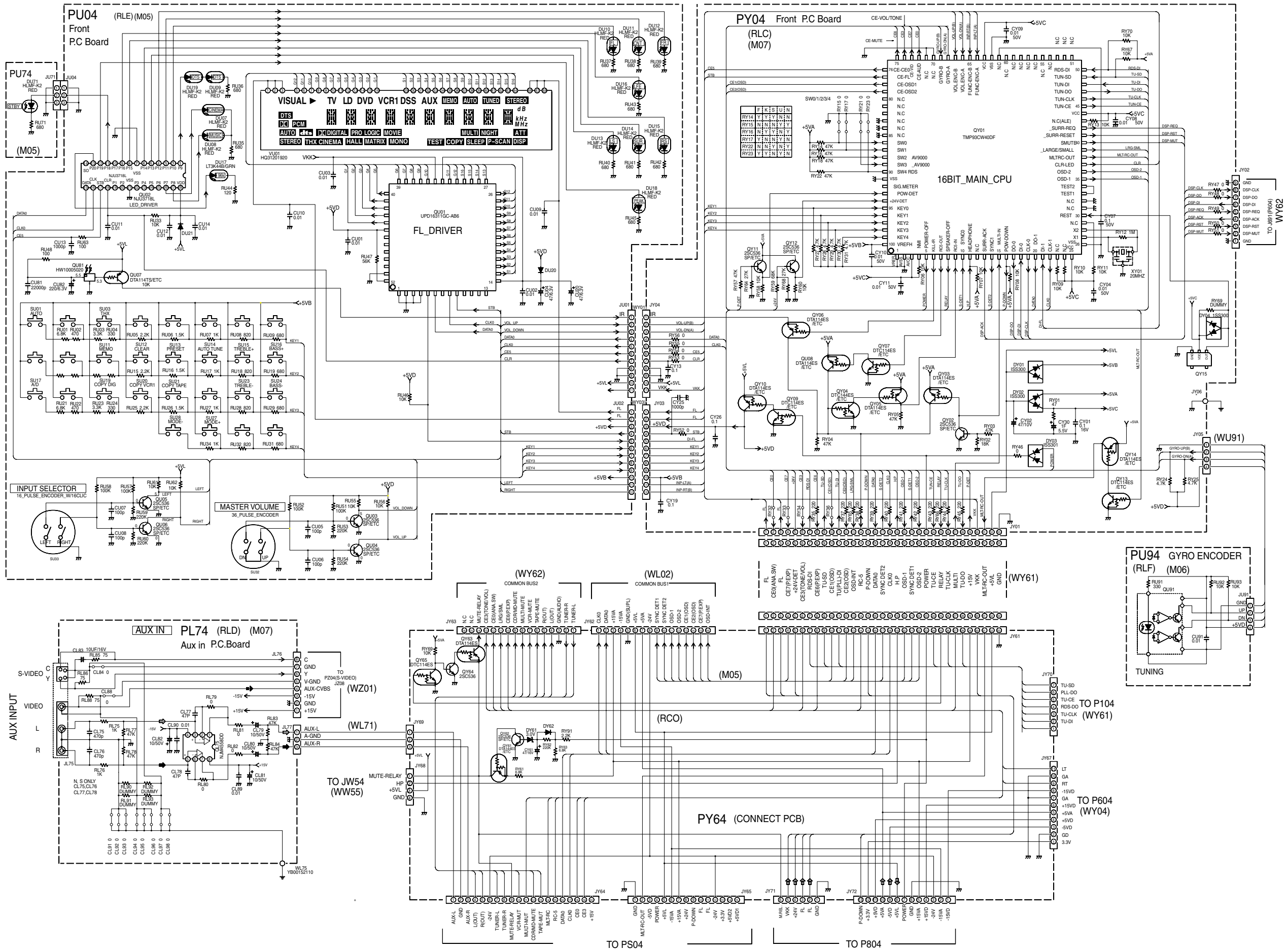


3. BLOCK DIAGRAM



4. SCHEMATIC DIAGRAM AND PARTS LOCATION (Pattern Side)



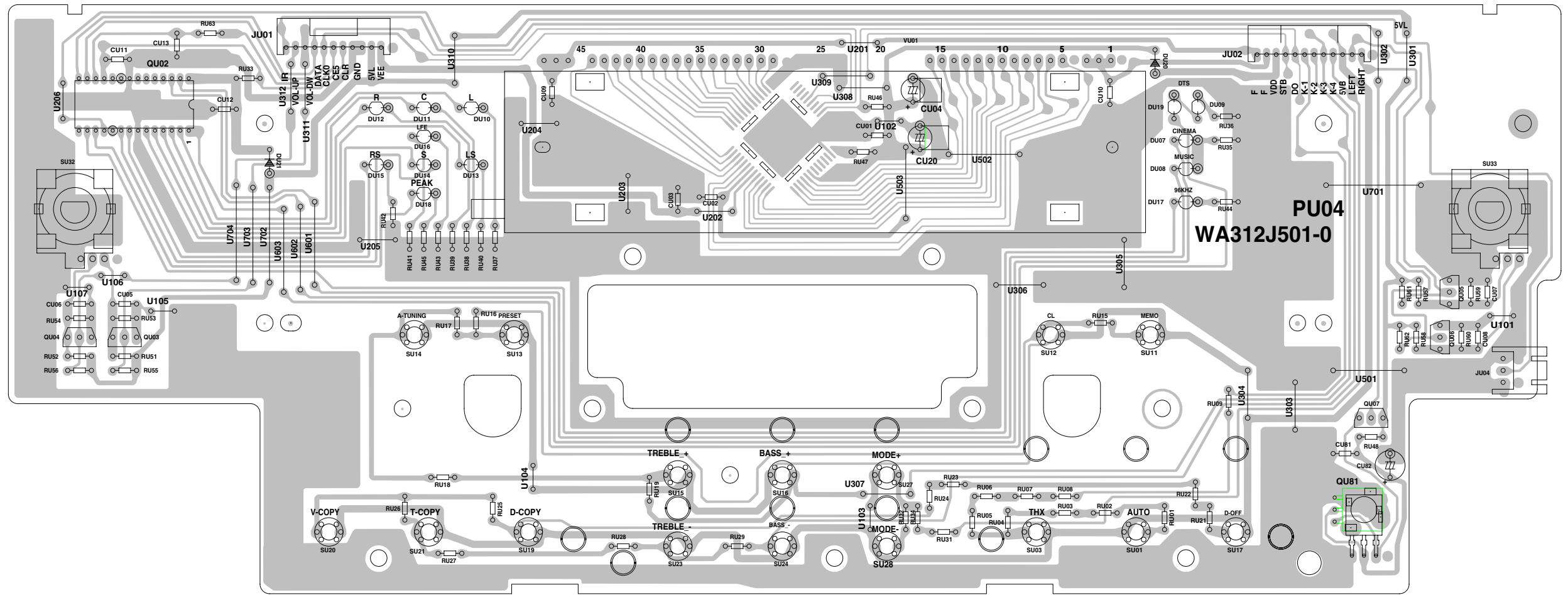


PU04

QU02
QU04 QU03

QU01

QU06 QU05
QU81QU07

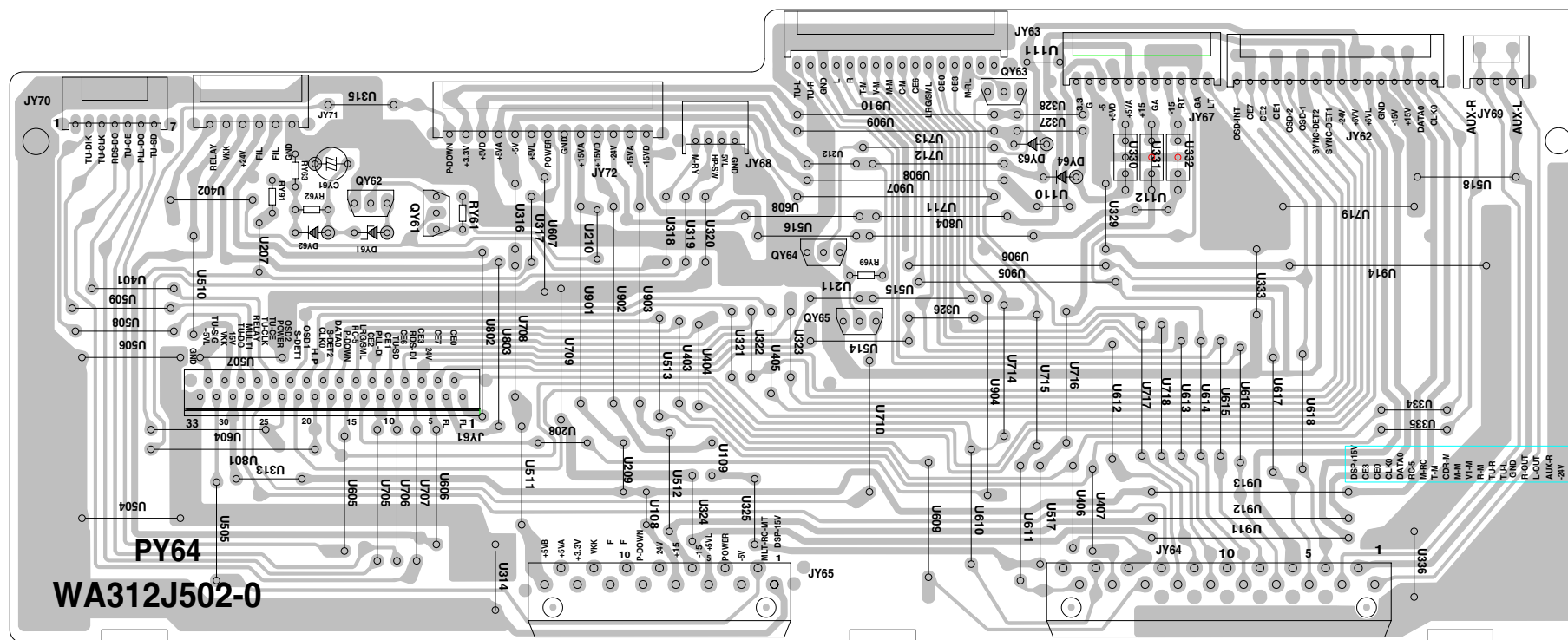


PY64

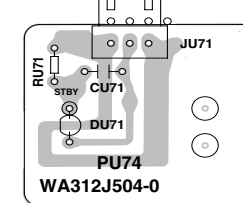
QY62 QY61

QY64 QY65

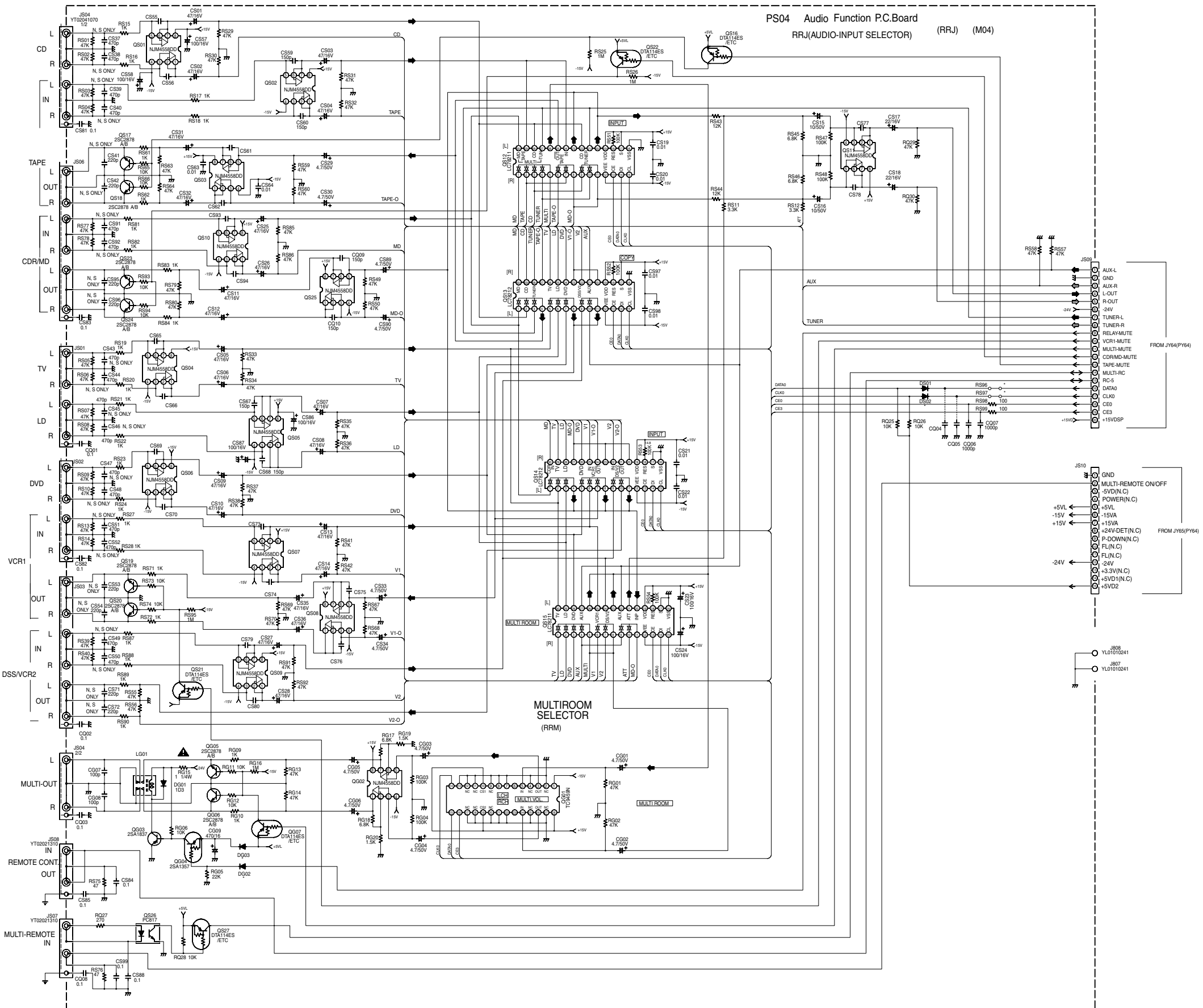
QY63



PU74

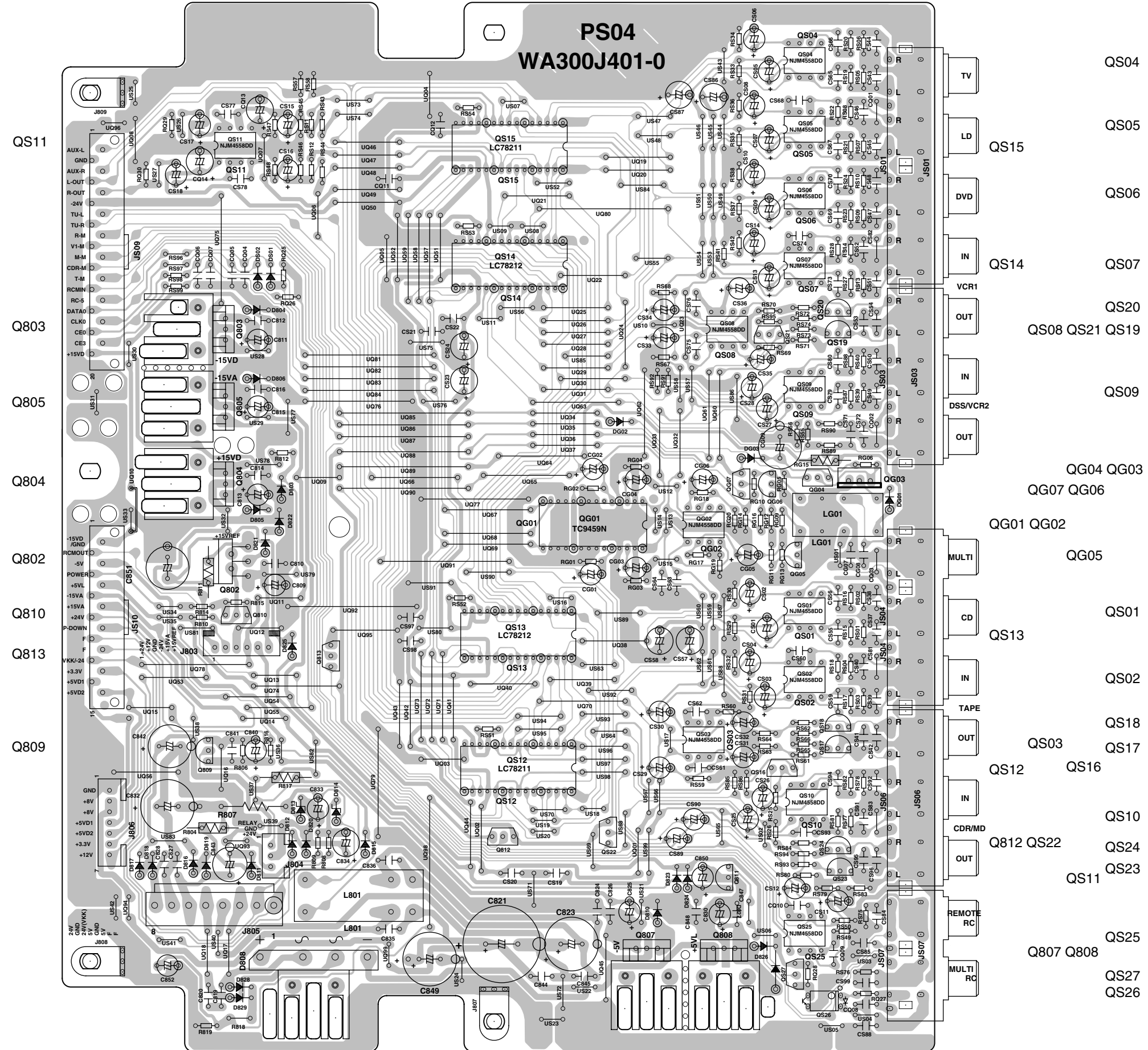


PS04 Audio Function P.C.Board
RRJ(AUDIO-INPUT SELECTOR) (RRJ) (M04)



PS04

PS04
WA300J401-0

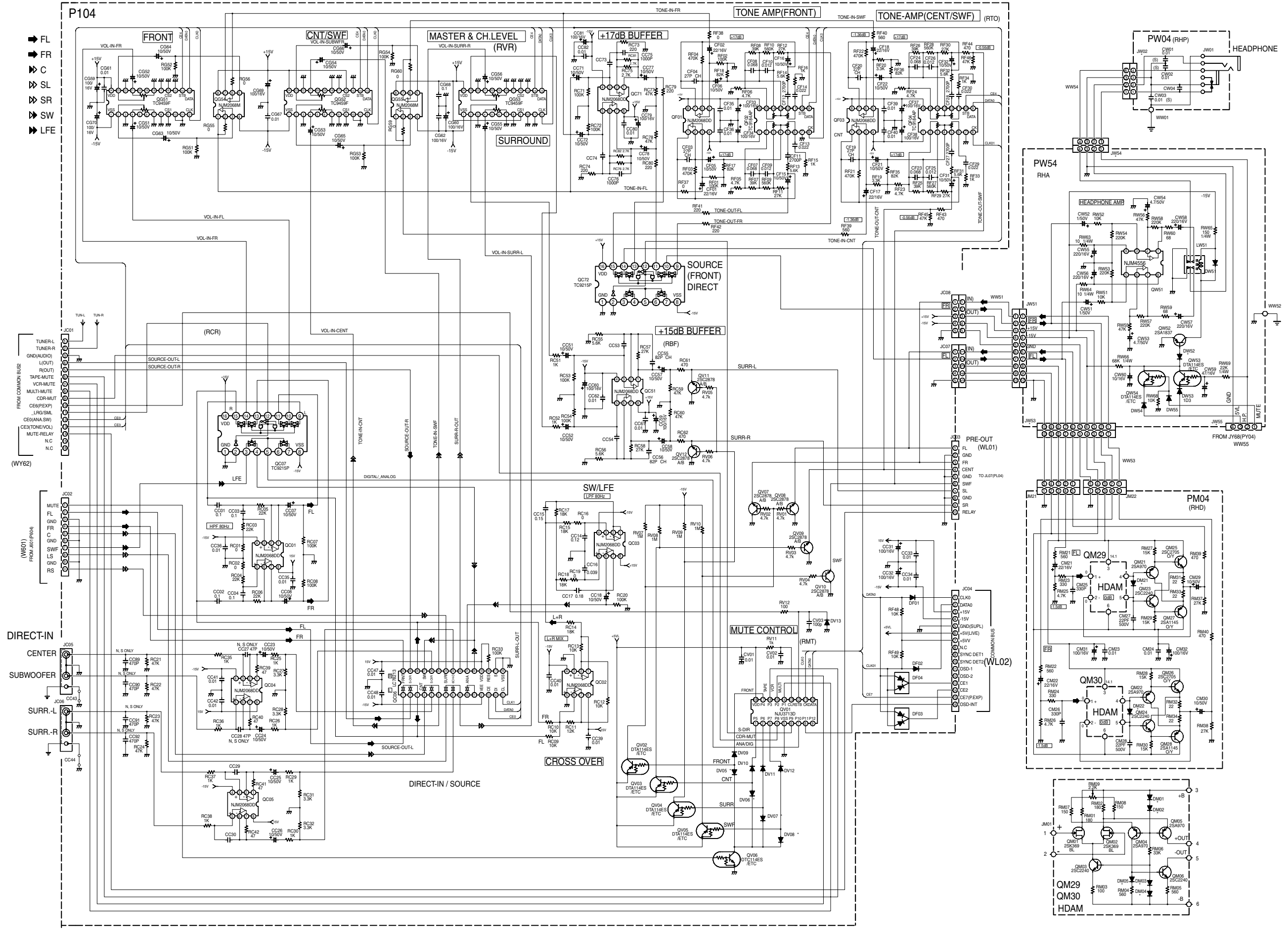


Q803
Q805
Q804
Q802
Q810
Q813
Q809

TV
LD
DVD
IN
OUT
IN
OUT
DSSVCR2
MULTI
CD
IN
OUT
IN
OUT
REMOTE
RC
MULTI
RC

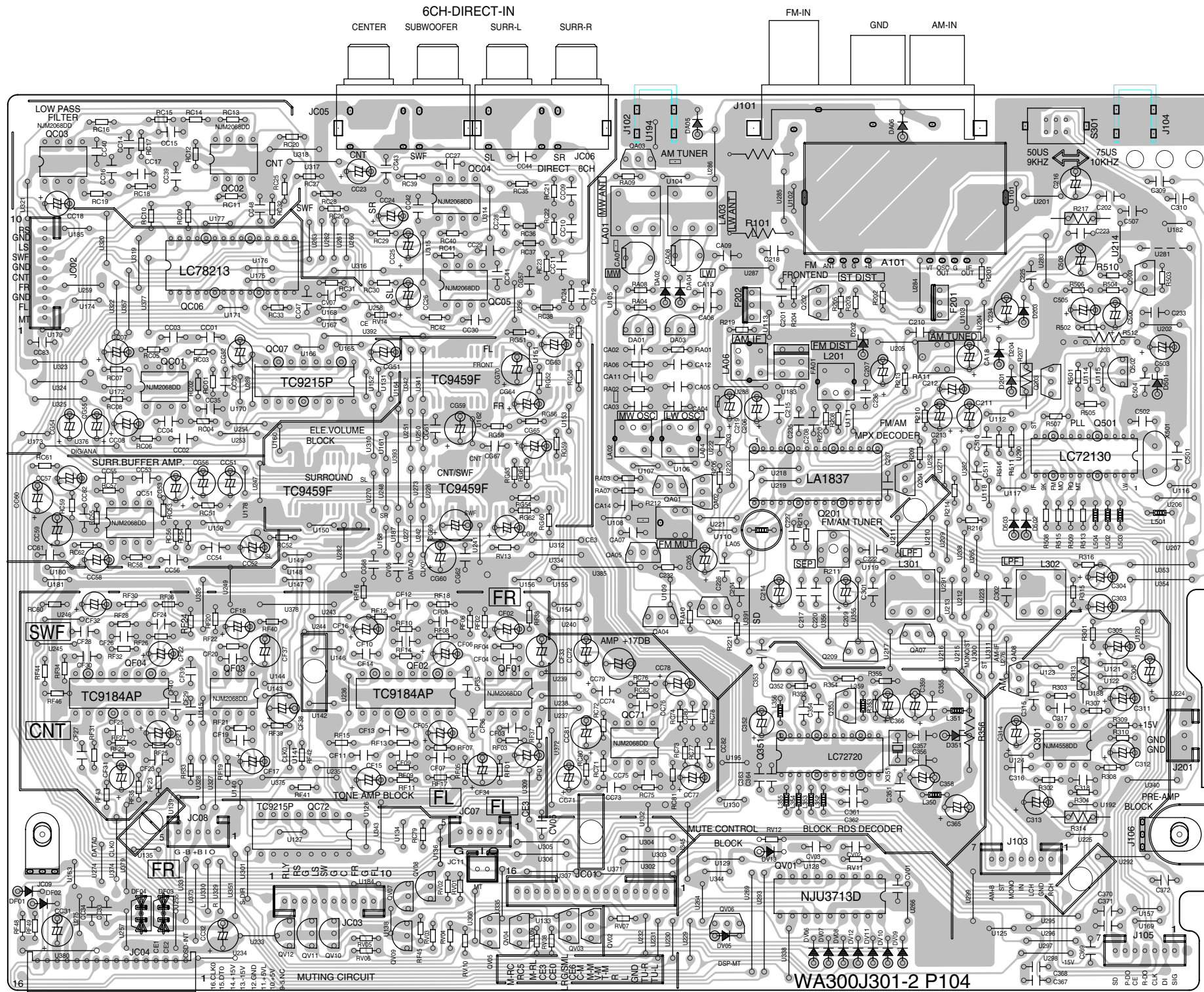
QS04
QS05
QS15
QS06
QS14
QS07
QS20
QS08 QS21 QS19
QS09
QG04 QG03
QG07 QG06
QG01 QG02
QG05
QS01
QS13
QS02
QS18
QS03 QS17
QS12 QS16
QS10
Q812 QS22
QS24
QS23
QS25
Q807 Q808
QS27
QS26

TONE/CROSS OVER/VOLUME/MUTE CIRCUIT BLOCK

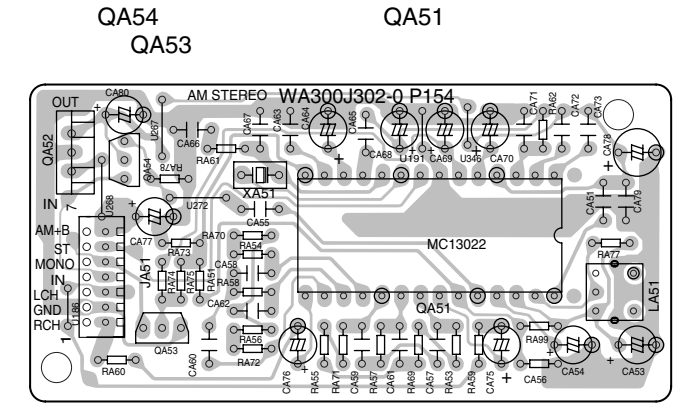


P104

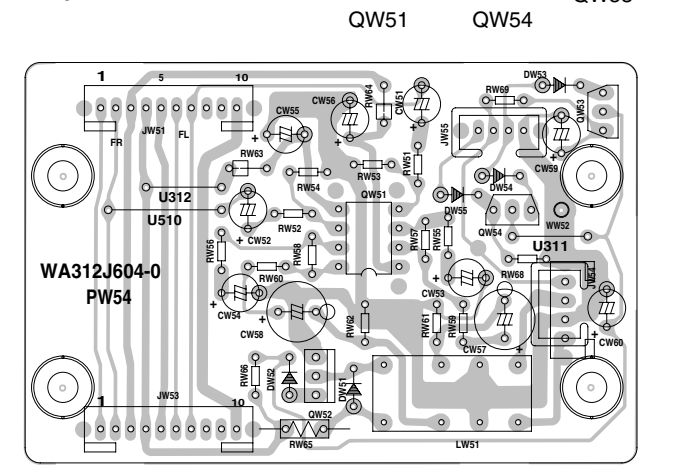
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 QC01 QC06 QC05 QG51 Q201 Q204 Q203 Q502
 QC51 QC07 QF02 QG52 QF01 QA05 QA01 QA02 Q352 Q353 Q209 QA07 QA08 Q501
 QF04 QF03 QC72 QV07 QV08 QC71 QA04 QA06 QV06 QV01 Q301
 QV12 QV11 QV10 QV09 QV05 QV04 QV03 QV02

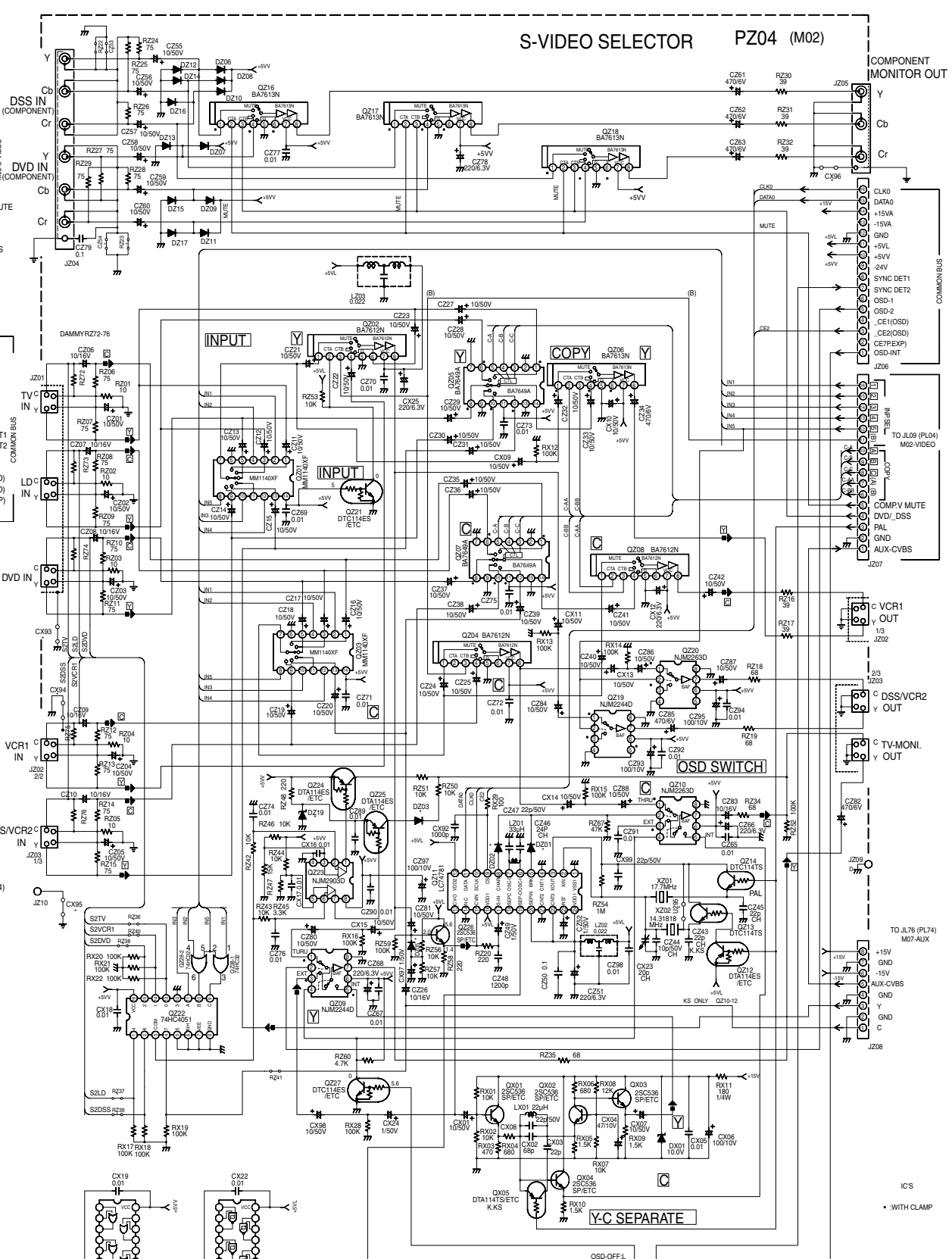
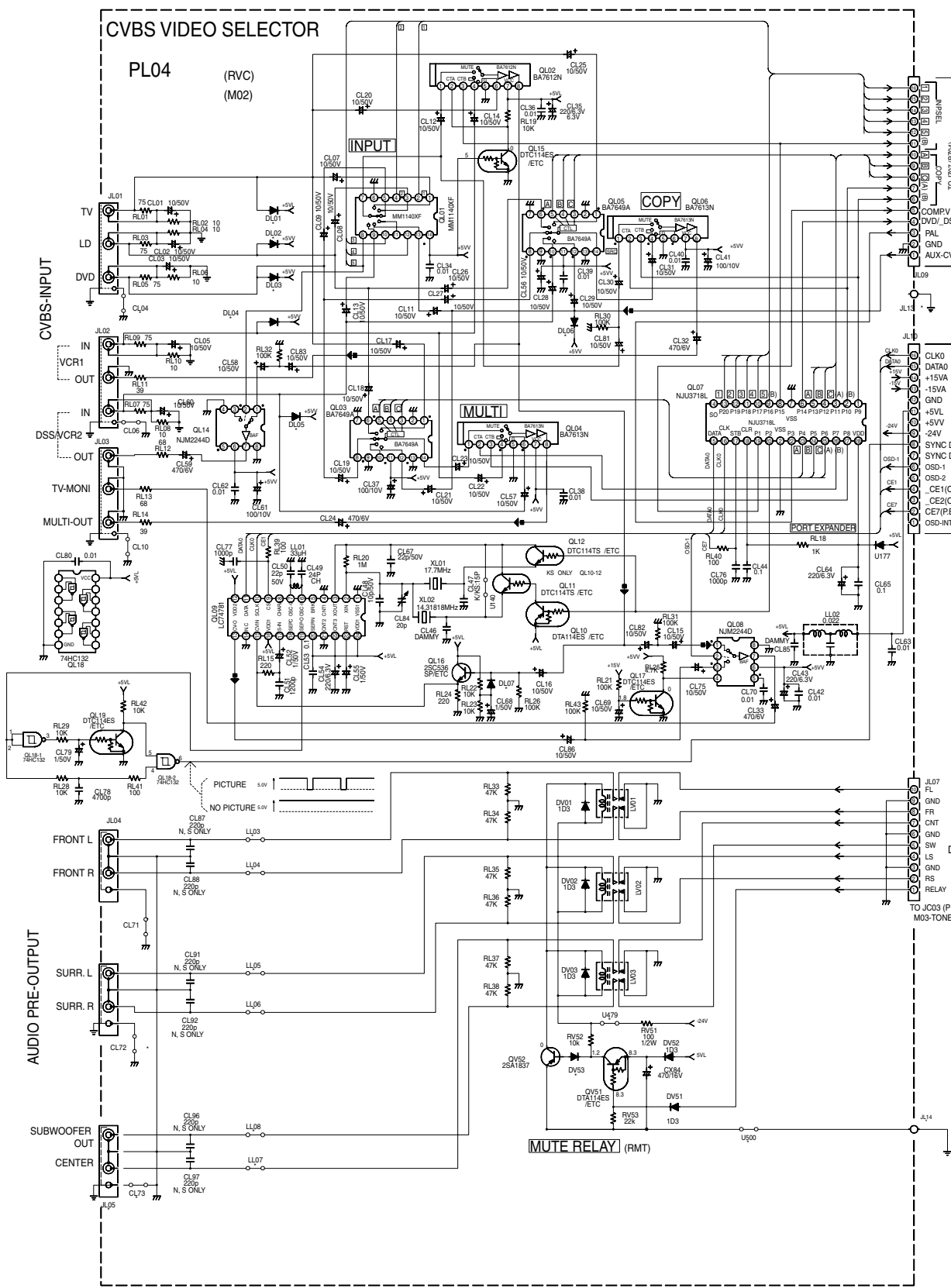


P154 (F ONLY)



PW54



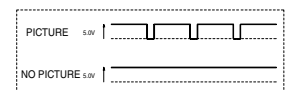


COMMON BUS
 TO JY62 (PY64) M06-CONNECT
 TO JC04 (P104) M03-TONE
 TO JL10 (PL04) M02-VIDEO
 TO JZ06 (PZ04) M02-S-VIDEO

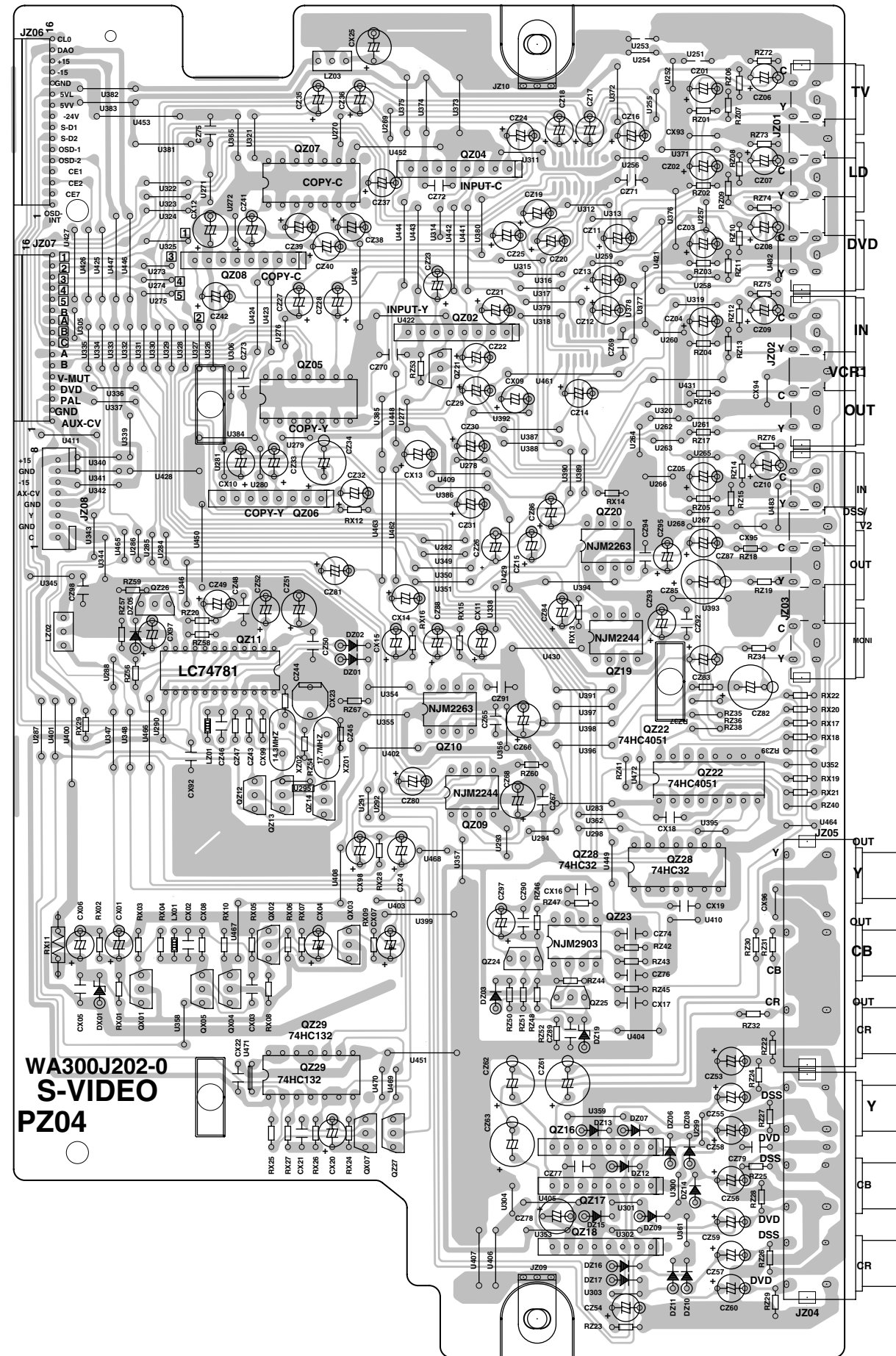
INPUT SELECTOR		COPY SWITCH		MULTI ROOM SELECTOR		OTHERS:TV/VCR1/LD/AUX	
INPUT	MM1140XD 7613	INPUT	BA7640 7613	INPUT	BA7648 7613	INP	B MUTE(A)
TV	L L L L L L	TV	L L L L L H	TV	L L L L L L	DSSV2	L L L
LD	L L L L L L	LD	L L L L L H	LD	L L L L L L	DVD	H L L
DVD	L L L L L L	DVD	H L L L L H	DVD	L L L L L L	OTHERS	L H
AUX	H H H H H L	AUX	H H H H H H	AUX	H H H H H L		
DSSV2	L L L L L L	DSSV2	L L L L L H	VCR1	H H H H H L		
VCR1	L L L L L L	SOURCE	H H H H H H	DSSVCR2	H H H H H L		
STANDBY	L L L L L L	SOURCE	H H H H H H	DSSVCR2	H H H H H L		
		MULTI-OFF	H H H H H H	MULTI-OFF	H H H H H L		

INPUT SELECTOR AND COPY SWITCH
 -SAME DATA BETWEEN CVBS VIDEO AND S-VIDEO.
 BA7612N/BA7613N
 -SAME DATA BETWEEN BA7612N AND BA7613N

OSD SWITCH (NUM244D/NUM263D)	
THRU	L L
OSD(EXT)	H L
OSD(INT)	H L



PZ04



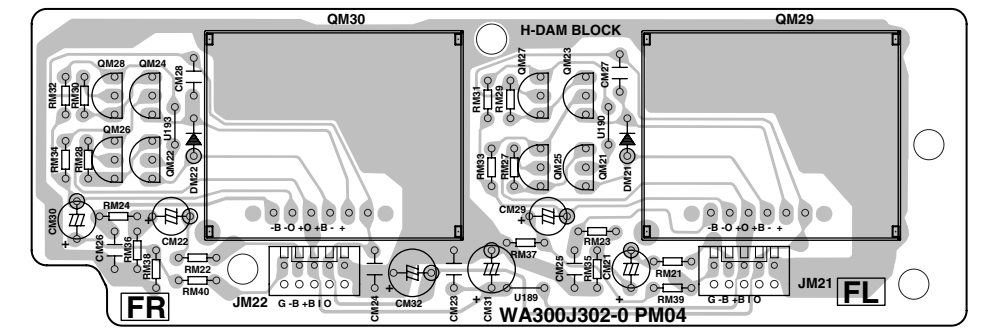
- QZ07 QZ04
- QZ08
- QZ02
- QZ21
- QZ05
- QZ06
- QZ20
- QZ26
- QZ19
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- QZ10
- QZ22
- QZ12 QZ13 QZ14 QZ09
- QZ28
- QX02 QX03 QZ23
- QX01 QX05 QX04 QZ25
- QZ29
- QX07 QX27 QZ16
- QZ17
- QZ18

PM04

- QM28 QM24
- QM26 QM22

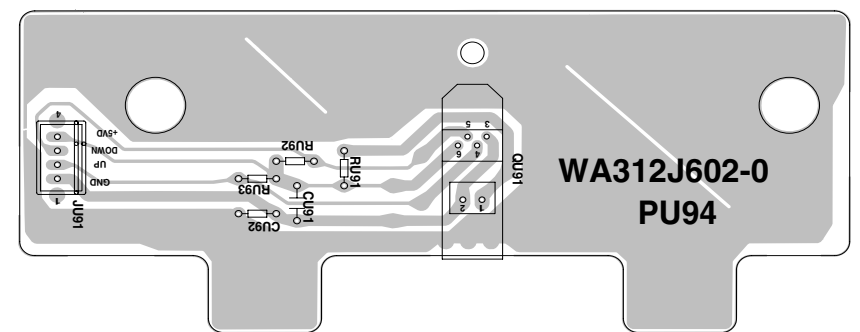
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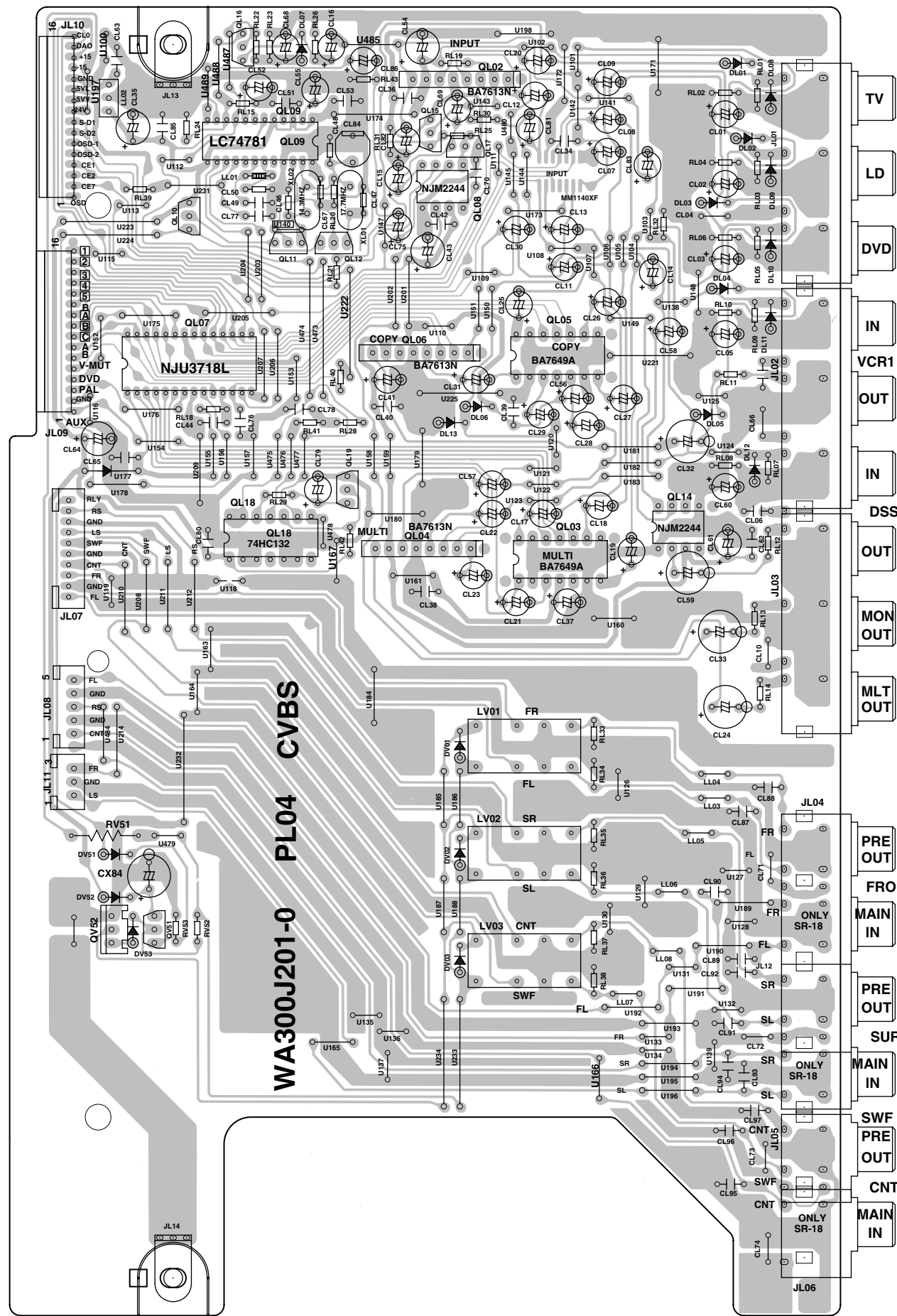
QM29



PU94

QU91





WA300J201-0 PL04 CVBS

- TV
- LD
- DVD
- IN
- VCR1
- OUT
- IN
- DSS
- OUT
- MON OUT
- MLT OUT
- PRE OUT
- FRONT
- MAIN IN
- PRE OUT
- Surr
- MAIN IN
- SWF
- PRE OUT
- CNT
- MAIN IN

- QL16
- QL02
- QL09 QL15 QL17
- QL08
- QL10
- QL11 QL12
- QL07 QL06 QL05
- QL19
- QL14
- QL18 QL04 QL03

QV52 QV51

P604

QK05
QK03
QK01

QK06
QK04

QJ01

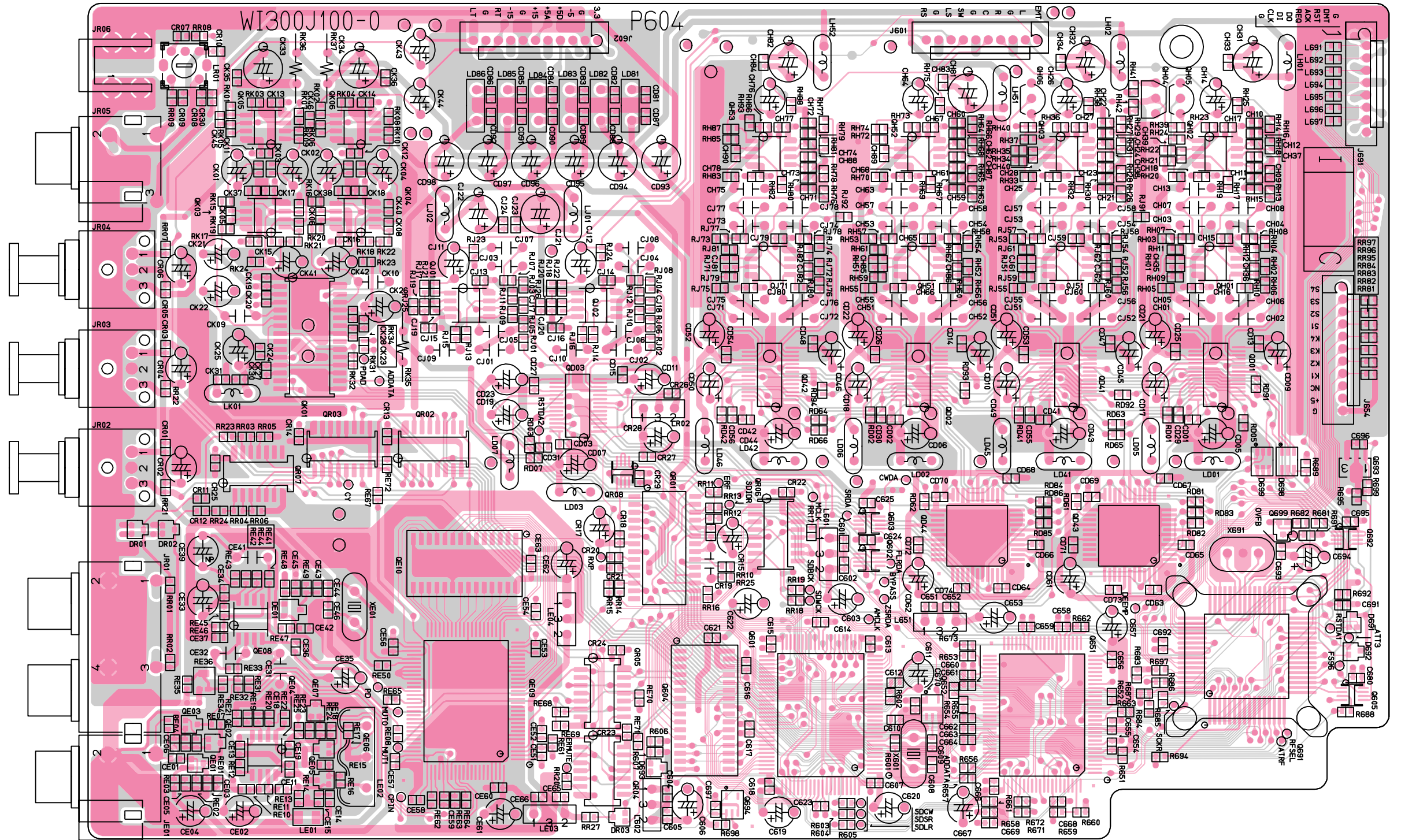
QJ02
QD03

QH53
QJ71
QD42

QH52
QH51
QD02

QH06 QH03
QJ51
QD41

QH04 QH05 QH02
QH01
QD01



QR07 QR03
QE08 QE01
QE01 - QE04 - QE07

QR02
QE10
QE09

QR08 QR01
QR05
QR04

Q604
Q694

QR06
Q601
Q602

Q603
Q652

QD04

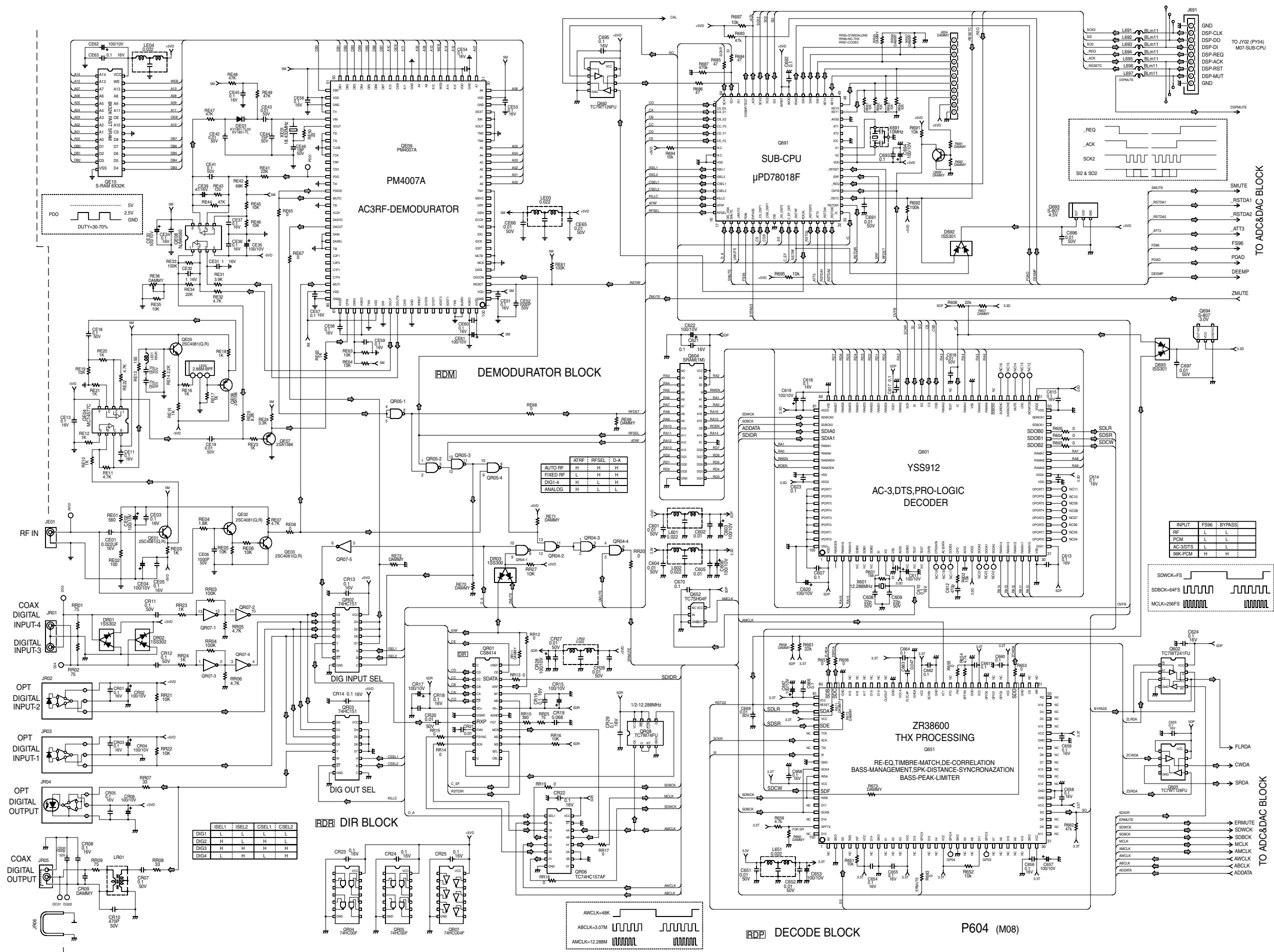
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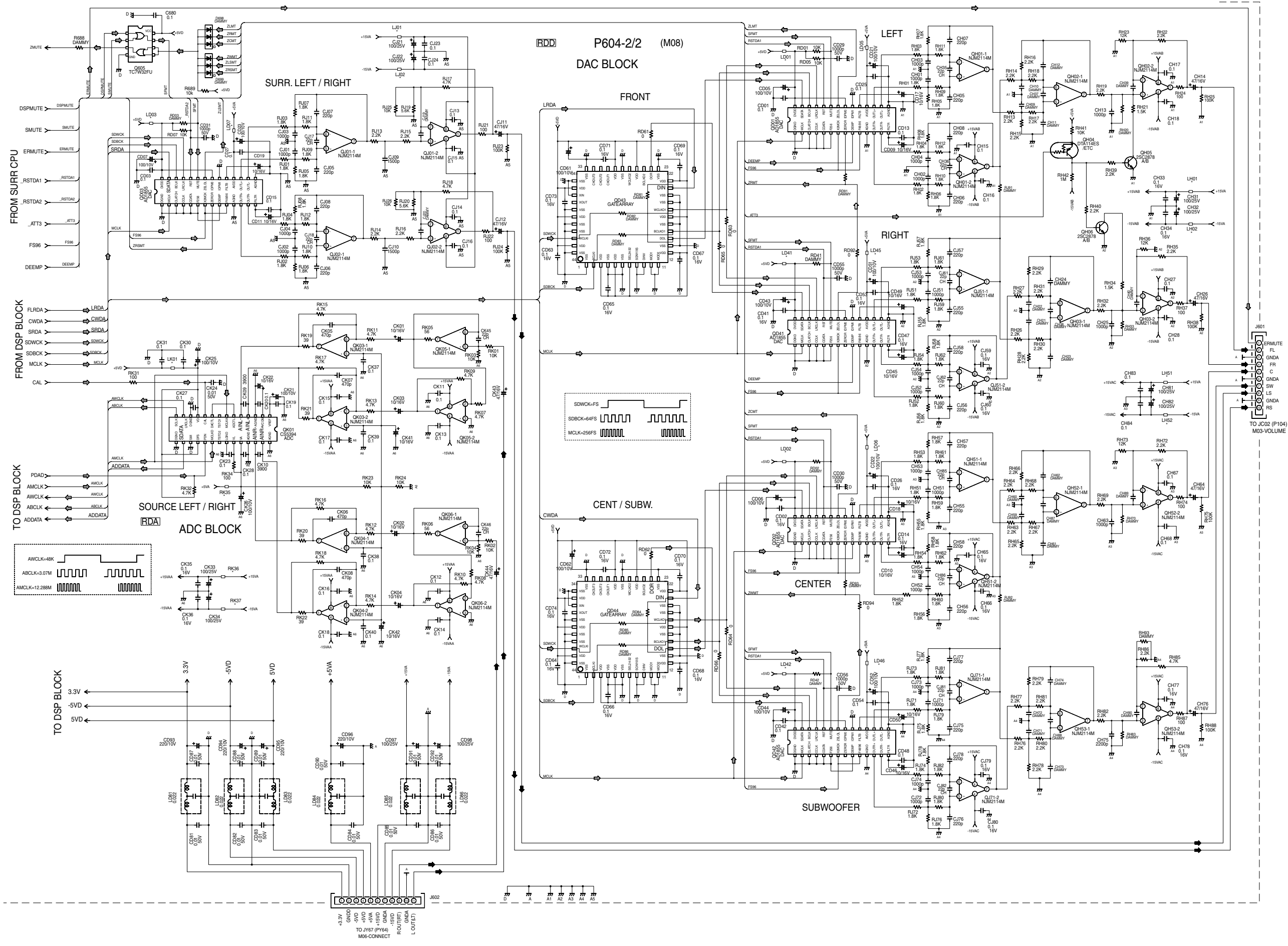
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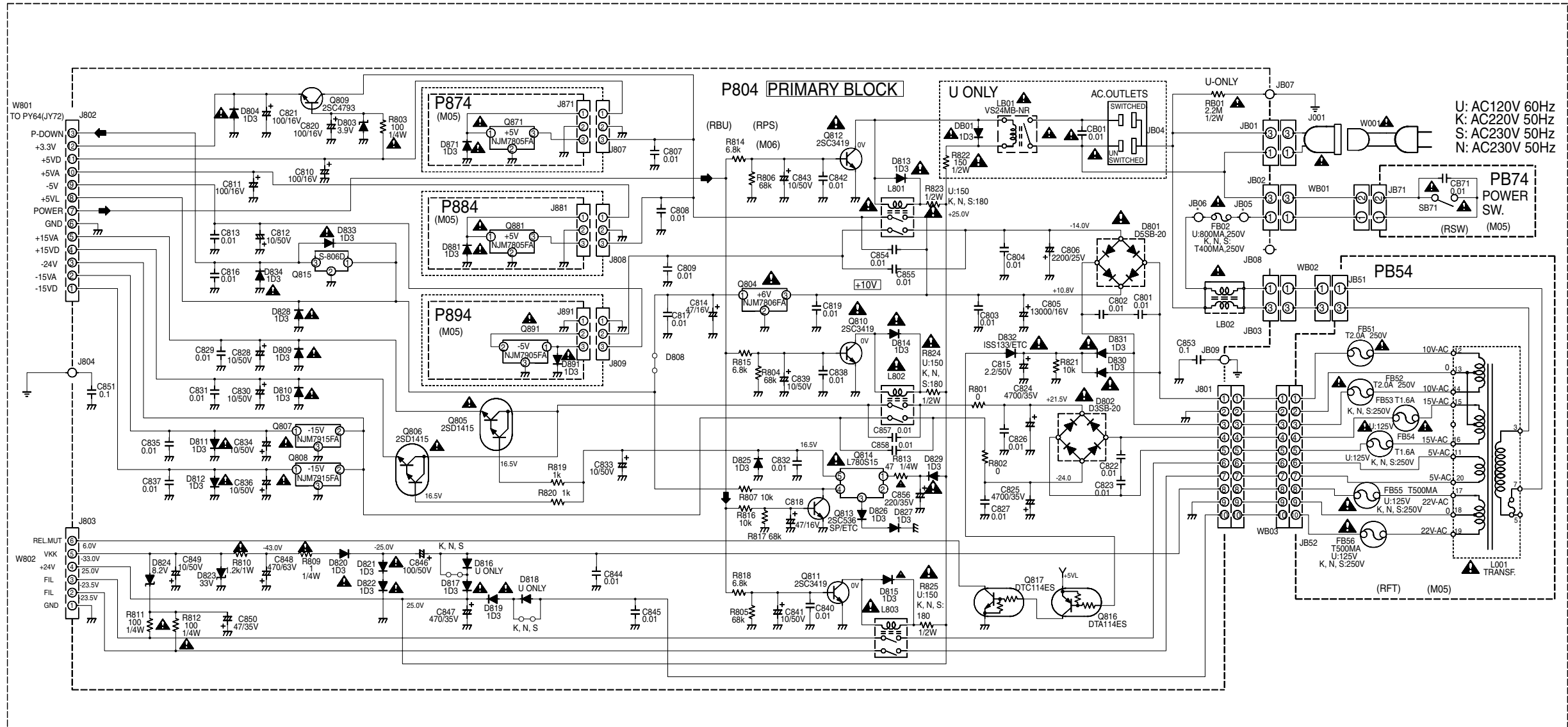
Q966

Q691

Q693
Q692
Q605





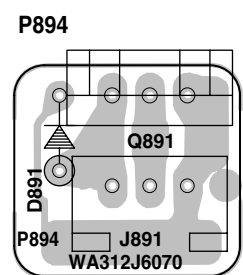
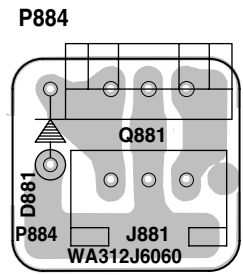
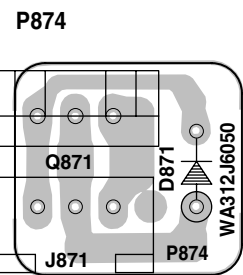
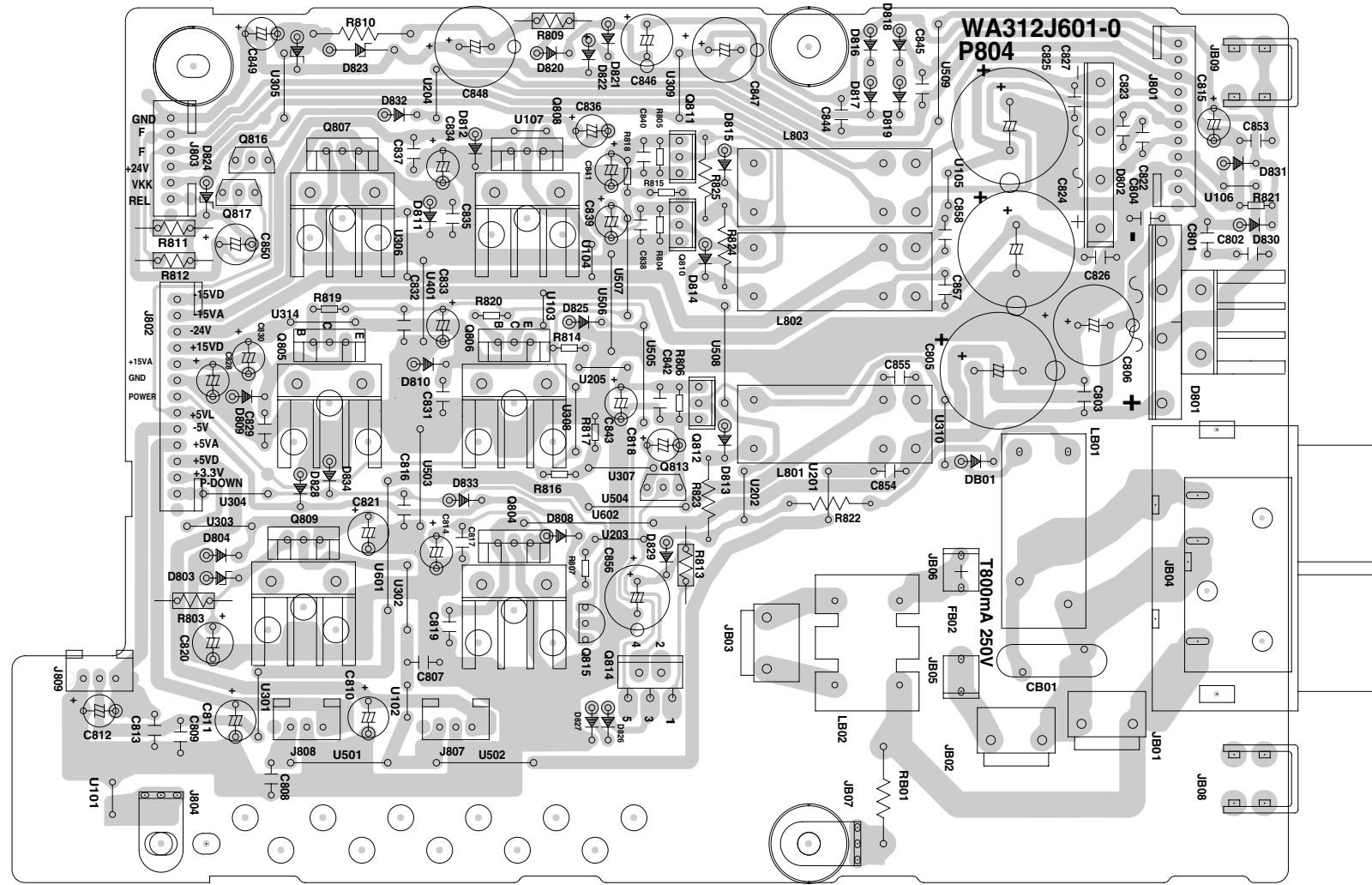


P804

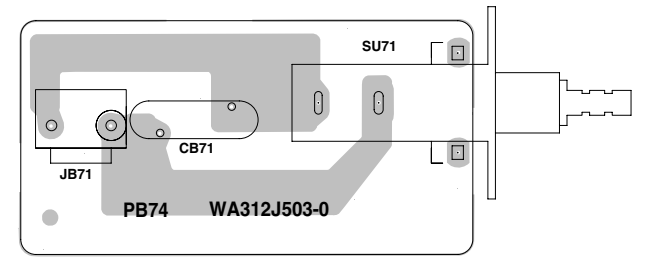
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 Q805
 Q809

Q808
 Q806
 Q804 Q815

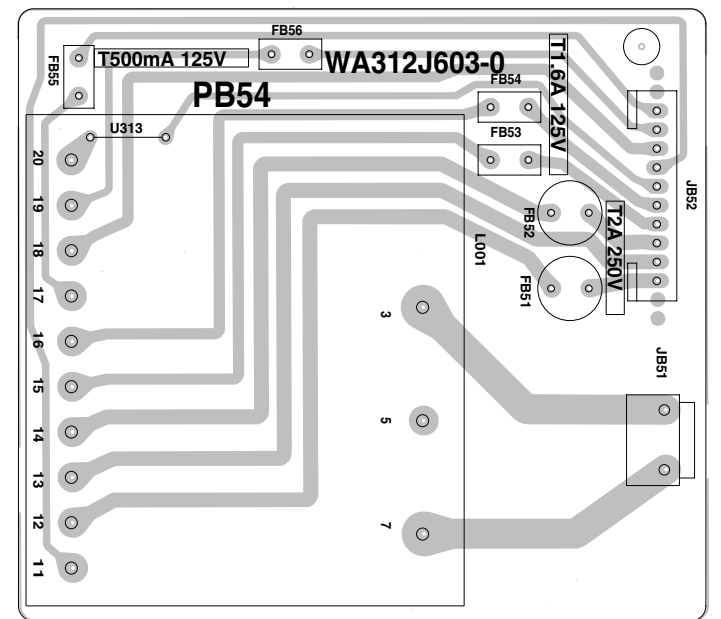
Q811 Q810
 Q813 Q812
 Q814



PB74



PB54



PY04

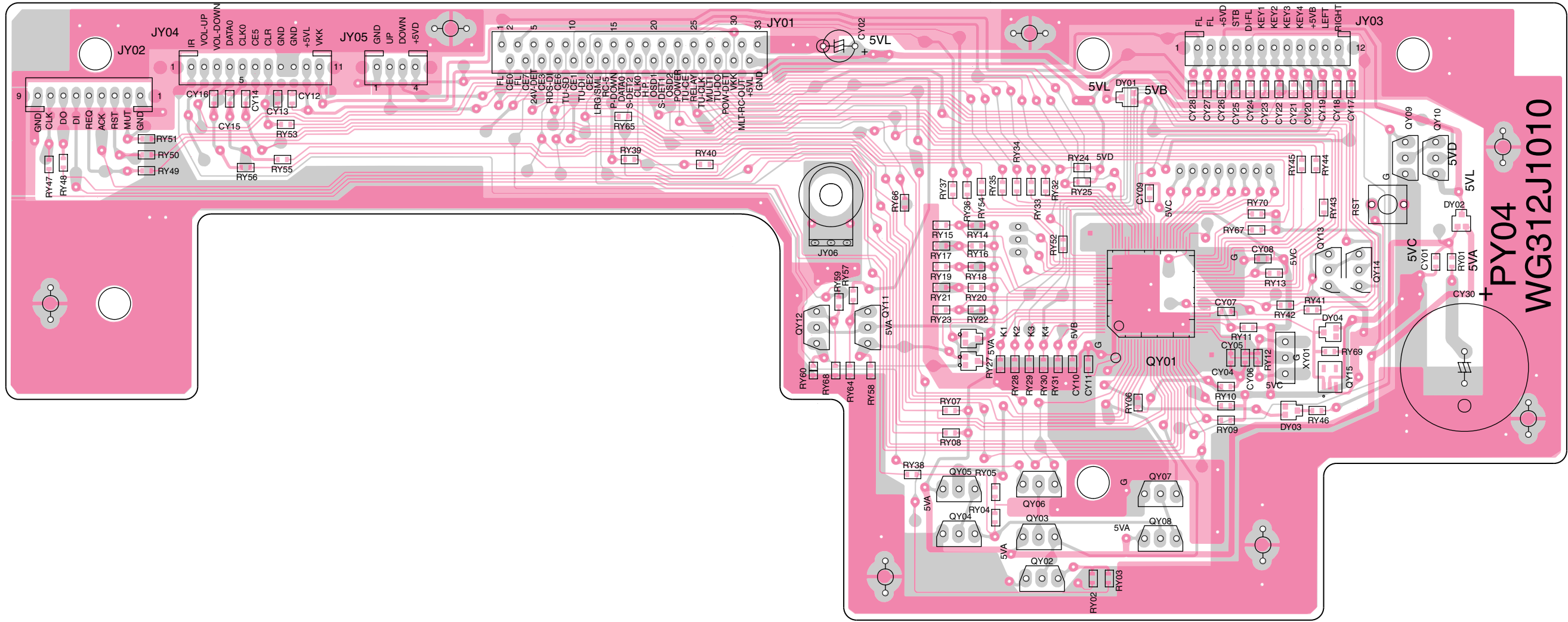
QY12 QY11

QY03 - QY06

QY01 QY07 QY08

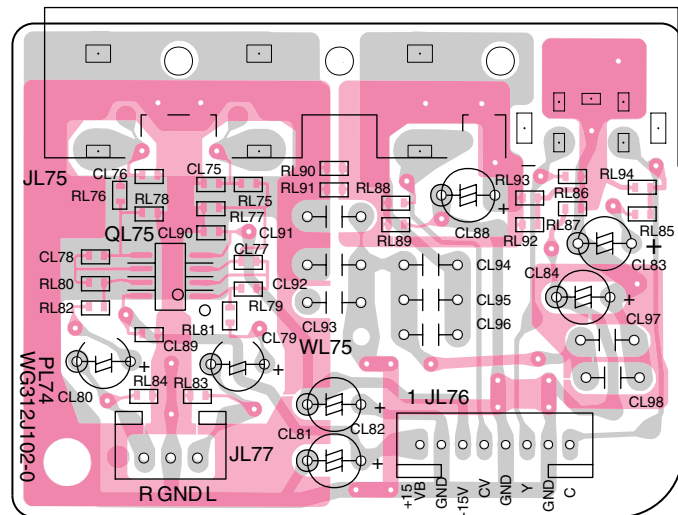
QY13 - QY15

QY09 QY10

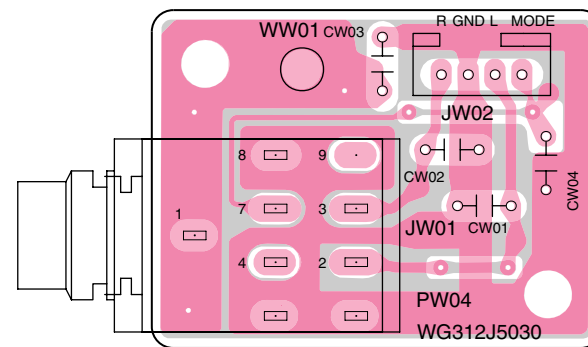


PL74

QL75



PW04



5. IC DATA

QY01:TMP93CW40DF

Pin Description

No	Port Name	I/O	USE	Sig. Name	Act.	Description
1	VREFL	I	-	-	-	A/D VREFL.
2	AVSS	I	-	-	-	A/D VSS
3	AVCC	I	-	-	-	A/D VCC
4	NMI	I	NMI	-	-	Pull Up
5	P70/TI0	I/O	O	POWER OFF	L	
6	P71/TO1	I/O	O	KILL IR	H	
7	P72/TO2	I/O	O	RC-5 OUT	H	
8	P73/TO3	I/O	O	SPEAKER OFF	H	SPK RELAY
9	P80/INT4	I/O	I	RC-5 IN	H	Both Edge
10	P81/INT5	I/O	I	SYNC0	H	Rising Edge
11	P82/TO4	I/O	I	HEAD PHONE	L	
12	P83/TO5	I/O	I	-	-	Fixed
13	P84/INT6	I/O	I	SURR. ACK	L	Both Edge
14	P85/INT7	I/O	I	SYNC1	H	Rising Edge
15	P86/TO6	I/O	I	MULTI RC-5 IN	L	
16	P87/INT0	I/O	I	POWER DOWN	L	
17	P90/TXD0	I/O	TXD	DO0	-	I/F to SURR. uP
18	P91/RXD0	I/O	RXD	DI0	-	I/F to SURR. uP
19	P92/SCLK0	I/O	SCLK	CLK0	-	I/F to SURR. uP
20	P93/TXD1	I/O	TXD	DO1	-	I/F to ICs
21	P94/RXD1	I/O	RXD	DI1	-	I/F to ICs
22	P95/SCLK1	I/O	SCLK	CLK1	-	I/F to ICs
23	AM8/16	I	-	-	-	Pull Up
24	CLK	O	-	-	-	Pull Up
25	VCC	I	-	-	-	Pull Up
26	VSS	I	-	-	-	to VSS
27	X1	I	-	-	-	20MHz
28	X2	O	-	-	-	20MHz
29	EA	I	-	-	-	Pull Up
30	RESET	I	-	-	-	-
31	P96/XT1	I/O	I	-	-	to VSS
32	P97/XT2	I/O	I	-	-	to VSS
33	TEST1	I	-	-	-	to TEST2
34	TEST2	I	-	-	-	to TEST1
35	PA0	I/O	O	OSD ON0	H	
36	PA1	I/O	O	OSD ON1	H	
37	PA2	I/O	O	CLR LED	L	NJU3718 CLR
38	PA3	I/O	O	MULTI RC-5 OUT	H	
39	PA4	I/O	O	LARGE/SMALL	L	LARGE = L
40	PA5	I/O	O	SMUTE	H	

Act.: Active level

Q691:μPD78018

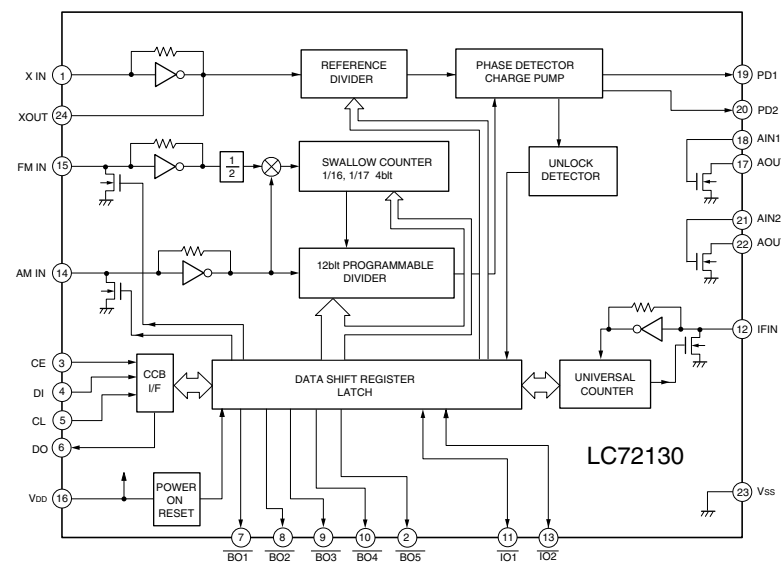
Pin Description

No	Port Name	I/O	USE	Sig. Name	Act.	Description
1	P30/TO0	I/O	I	C0_E0	-	DIR Status
2	P31/TO1	I/O	I	Ca_E1	-	DIR Status
3	P32/TO2	I/O	I	Cb_E2	-	DIR Status
4	P33/TO1	I/O	I	Cd_F0	-	DIR Status
5	P34/TO2	I/O	I	Cd_F1	-	DIR Status
6	P35/PCL	I/O	I	Ce_F2	-	DIR Status
7	P36/BUZ	I/O	O	TEST_COM	H	For Check SIO0 Interface
8	P37	I/O	I	OLD_OVFB	H	keep in port for SR880MK2
9	Vss	I	-	GND	-	GND
10	P40	I/O	O	ISEL1	-	SPDIF input select
11	P41	I/O	O	ISEL2	-	SPDIF input select
12	P42	I/O	O	CSEL1	-	SPDIF output select
13	P43	I/O	O	CSEL2	-	SPDIF output select
14	P44	I/O	O	KILLC	H	Kill SPDIF output
15	P45	I/O	O	ATRF	H	Auto RF select
16	P46	I/O	O	RFSEL	H	RF select
17	P47	I/O	O	DIG_ANA	-	Digital/Analog select
18	P50	I/O	O	SMUTE	H	Soft mute by DAC
19	P51	I/O	O	UMUTE	L	Hard mute by Tr.
20	P52	I/O	O	FS96	H	Fs=96k set
21	P53	I/O	O	BYPASS	H	Bypass DSP
22	P54	I/O	O	CS_DSP1	L	I/F Q601 (main DSP)
23	P55	I/O	O	CSB_DSP1	L	I/F Q601 (sub DSP)
24	Vss	I	-	GND	-	GND
25	P56	I/O	O	SS_DSP2	L	I/F Q651
26	P57	I/O	O	C_EF_DIR	-	DIR Status Out Select
27	P60	I/O	O	_RSTRF	L	Reset to PM4007
28	P61	I/O	O	ADCAL	H	Cal. to ADC
29	P62	I/O	O	_RSTDSP2	L	Reset to Q651
30	P63	I/O	O	_ATT3	L	Attenuate to Bypass
31	P64	I/O	O	_RSTDA1	L	Reset to DAC
32	P65	I/O	O	_RSTDA2	L	Reset to DAC

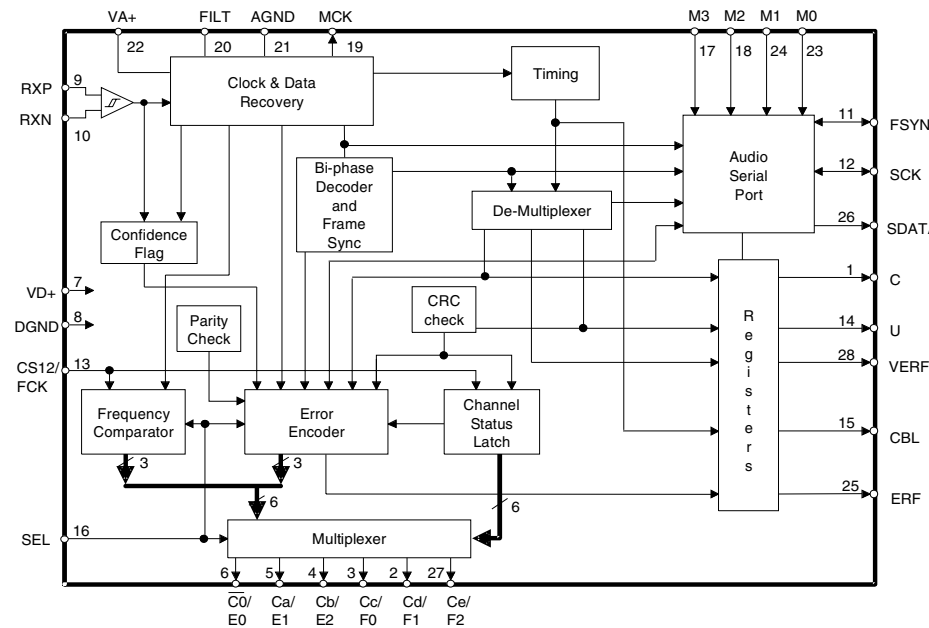
Act.: Active level, OPT: Option

No	Port Name	I/O	USE	Sig. Name	Act.	Description
33	P66/WAIT	I/O	O	IC	L	Reset to Q601
34	P67/ASTB	I/O	O	RSTDIR	H	DIR Ch. Status Select
35	RESET	I	I	RSTC	L	I/F Master CPU
36	P00/INTP0	I	I	OVFB	-	Over load to DSP
37	P01/INTP1	I/O	I	REQ	L	I/F Master CPU
38	P02/INTP2	I/O	I	ERF	H	SPDIF Error status
39	P03/INTP3	I/O	I	_RFNODET	L	RF input status
40	Vdd	I	-	+5V	-	+5v
41	X2	O	-	-	-	10MHz
42	X1	I	-	-	-	10MHz
43	IC	I	-	-	-	to GND
44	XT2	O	-	n.c.	-	Open
45	P04/XT1	I	-	n.c.	-	Vdd
46	Avss	I	-	GND	-	GND
47	P10/ANI0	I/O	ANI	KEY1	-	Optional 8 key input
48	P11/ANI1	I/O	ANI	KEY2	-	Optional 8 key input
49	P12/ANI2	I/O	ANI	KEY3	-	Optional 8 key input
50	P13/ANI3	I/O	ANI	KEY4	-	Optional 8 key input
51	P14/ANI4	I/O	I	SWITCH1	-	Link Host or Stand alone
52	P15/ANI5	I/O	I	SWITCH2	-	THX or Not
53	P16/ANI6	I/O	I	SWITCH3	-	ADC or CODEC
54	P17/ANI7	I/O	O	PDAD	-	ADC Power Down
55	AVdd	I	-	+5v	-	+5v
56	AVref	I	-	+5v	-	+5v
57	P20/SI1	I/O	I	SI1	-	I/F Master CPU
58	P21/SO1	I/O	O	SO1	-	I/F Master CPU
59	P22/SCK1	I/O	I	SCK1	-	I/F Master CPU
60	P23/STB	I/O	O	_ACK	L	I/F Master CPU
61	P24/BUSY	I/O	O	DEEMP	-	Pull Up
62	P25/SI0	I/O	I	SI0	-	I/F Q601&Q651
63	P26/SO0	I/O	O	SO0	-	I/F Q601&Q651
64	P27/SCK0	I/O	O	SCK0	-	I/F Q601&Q651

Q501:LC72130

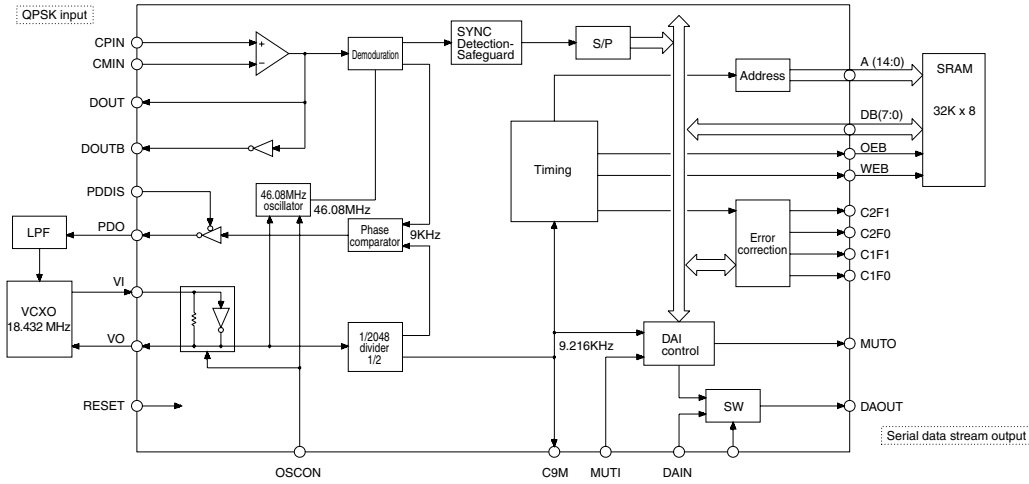


QR01:CS8414



C	Pin	Signal Name	Description
1	28	VERF	VERIFICATION SIGNAL
2	27	Ce/F2	CS e/FREQ REPORT 2
3	26	SDATA	SERIAL OUTPUT DATA
4	25	ERF	ERROR FLAG
5	24	M1	SERIAL PORT MODE SELECT 1
6	23	M0	SERIAL PORT MODE SELECT 0
7	22	VA+	ANALOG POWER
8	21	AGND	ANALOG GROUND
9	20	FILT	FILTER
10	19	MCK	MASTER CLOCK
11	18	M2	SERIAL PORT MODE SELECT 2
12	17	M3	SERIAL PORT MODE SELECT 3
13	16	SEL	FREQ/CS SELECT
14	15	CBL	CLOCK BURST LATCH

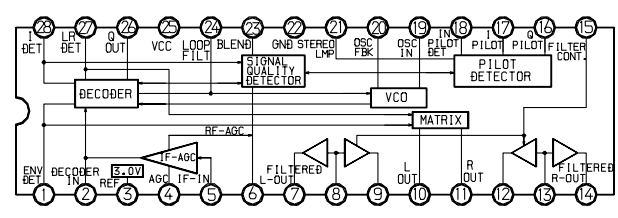
QM09:PM4007A



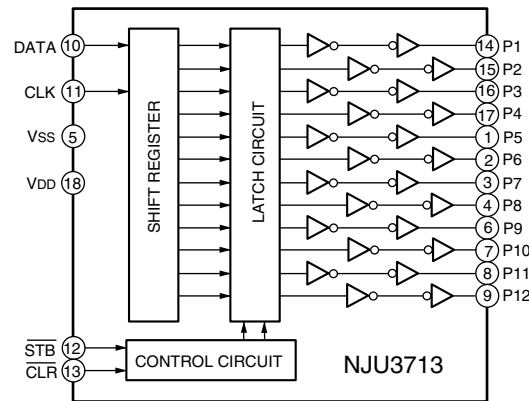
No.	Name	I/O	Function
1	GND	-	GND
2	VDD	-	+5V
3	RESET	I	System Reset At "L" reset
4	OSCON	I	Oscillator control At "H" during normal operation At "L" during standby
5	DATA	I	TEST
6	MCK	I	TEST
7	MLTB	I	TEST
8	IDST	O	TEST
9	IDCK	O	TEST
10	IDO	O	TEST
11	TM0	I	TEST
12	ECCK	O	TEST
13	DEN	O	TEST
14	DRY	O	TEST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

No.	Name	I/O	Function
51	DB0	B	RAM D0
52	VDD	-	+5V
53	GND	-	GND
54	TI1	I	TEST
55	VIN	I	VCXO input
56	VOU	O	VCXO output
57	TI2	I	TEST
58	TI3	I	TEST
59	TLDB	I	TEST
60	TK	I	TEST
61	TRP	O	TEST
62	TDO	O	TEST
63	PDO	O	Phase comparator output (3-state)
64	TI4	I	TEST
65	PDDIS	I	Control input for PDO out At "L" Output ON
66	MUTO	O	Muting output. Mutes at "H". Sets to "H" when MUTI = H or the AC-3 period cannot be received.
67	TI5	I	TEST
68	VLDY	O	TEST
69	DASYO	O	TEST
70	DAOUT	O	Digital OUT (serial data stream output)
71	DAIN	I	Digital external input : Sets to DAOUT when DASEL is at "H"
72	DASEL	I	Selects digital OUT
73	TI8	I	TEST
74	C2F1	O	N.C.
75	C2F0	O	N.C.
76	C1F1	O	N.C.
77	C1F0	O	Displays C1 correction error status. Outputs error count at C1.
78	MUTI	I	Muting input. Mutes at "H".
79	VDD	-	+5V
80	GND	-	GND
81	AVDD	I	+5V
82	CPIN	I	Analog converter inverted input
83	CMIN	I	Analog converter inverted input
84	AGND	-	GND
85	TM4	I	TEST
86	VDD	-	+5V
87	DIN	I	TEST
88	DOUT	O	Analog converter inverted output
89	DOU	O	Analog converter inverted reverse output
90	C9M	O	N.C.
91	GND	-	GND
92	WINGT	O	TEST
93	SYST0	O	TEST
94	SYST1	O	TEST
95	ADST0	O	TEST
96	ADST1	O	TEST
97	TM5	I	TEST
98	BUNRI	I	TEST
99	AGND	-	GND
100	AVDD	-	+5V

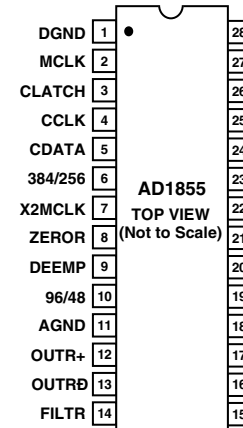
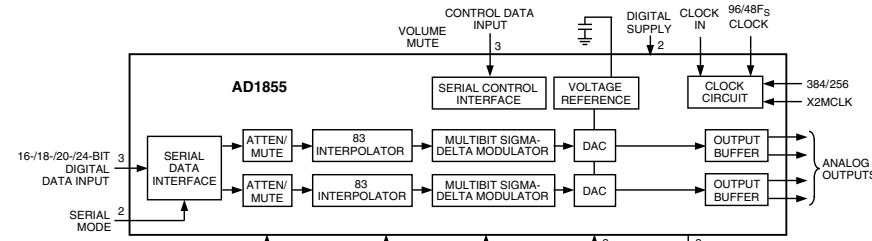
QA51:MC13022



QV01:NJU3713

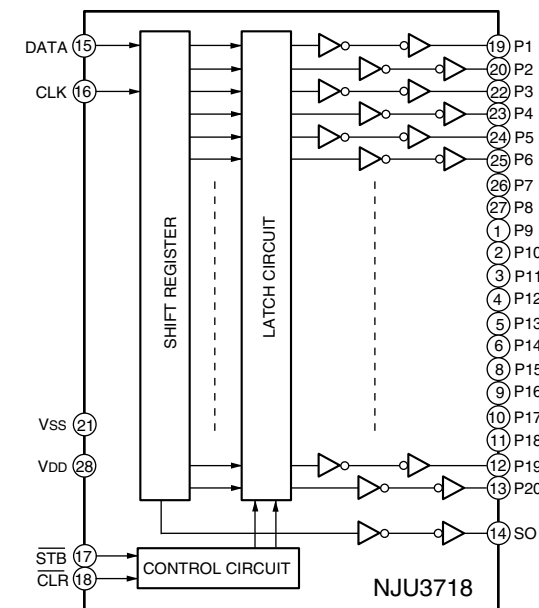


QD01/QD03/QD41/QD43:AD1855

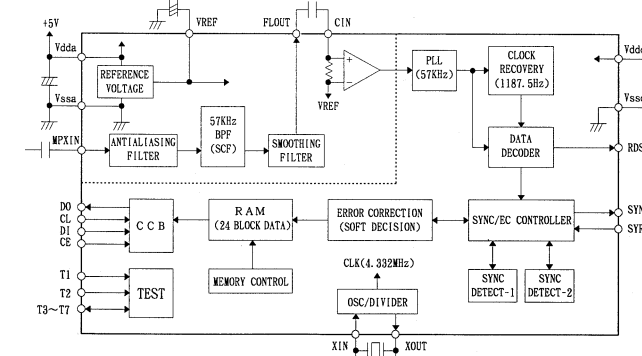


Pin	Input/Output	Pin Name	Description
1	I	DGND	Digital Ground.
2	I	MCLK	Master Clock Input. Connect to an external clock source at either 256, 384 or 512 Fs.
3	I	CLATCH	Latch input for control data. This input is rising-edge sensitive.
4	I	CCLK	Control clock input for control data. Control input data must be valid on the rising edge of CCLK. CCLK may be continuous or gated.
5	I	CDATA	Serial control input, MSB first, containing 16 bits of unsigned data per channel. Used for specifying channel specific attenuation and mute.
6	I	384/256	Selects the master clock mode as either 384 times the intended sample frequency (HI) or 256 times the intended sample frequency (LO). The state of this input should be hardwired to logic HI or logic LO, or may be changed while the AD1855 is in power-down/reset. It must not be changed while the AD1855 is operational.
7	I	X2MCLK	Selects internal clock doubler (LO) or internal clock = MCLK (HI).
8	O	ZEROR	Right Channel Zero Flag Output. This pin goes HI when Right Channel has no signal input for more than 1024 LR Clock Cycles.
9	I	DEEMP	De-Emphasis. Digital de-emphasis is enabled when this input signal is HI. This is used to impose a 50ms/15ms response characteristic on the output audio spectrum at an assumed 44.1 kHz sample rate.
10	I	96/48	Selects 48 kHz or 96 kHz Sample Frequency Control.
11, 15	I	AGND	Analog Ground.
12	O	OUTR+	Right Channel Positive line level analog output.
13	O	OUTRB	Right Channel Negative line level analog output.
14	O	FILTR	Voltage Reference Filter Capacitor Connection. Bypass and decouple the voltage reference with parallel 10m F and 0.1 mF capacitors to the AGND.
16	O	OUTL+	Left Channel Positive line level analog output.
17	O	OUTL-	Left Channel Negative line level analog output.
18	I	AVDD	Analog Power Supply. Connect to analog +5 V supply.
19	O	FILTB	Filter Capacitor connection. connect 10 mF capacitor to AGND.
20	I	IDPM1	Input serial data port mode control one. With IDPM0, defines one of four serial modes.
21	I	IDPM0	Input serial data port mode control zero. With IDPM1, defines one of four serial modes.
22	O	ZEROL	Left Channel Zero Flag output. This pin goes HI when Left Channel has no signal input for more than 1024 LR Clock Cycles.
23	I	MUTE	Mute. Assert HI to mute both stereo analog outputs. Deassert LO for normal operation.
24	I	PD/RST	Power-Down/Reset. The AD1855 is placed in a low power consumption mode when this pin is held LO. The AD1855 is reset on the rising edge of this signal. The serial control port registers are reset to the default values. Connect HI for normal operation.
25	I	L/RCLK	Left/Right clock input for input data. Must run continuously.
26	I	BCLK	Bit clock input for input data. Need not run continuously; may be gated or used in a burst fashion.
27	I	SDATA	Serial input, MSB first, containing two channels of 16, 18, 20, and 24 bits of two complement data per channel.
28	I	DVDD	Digital Power Supply Connect to digital +5 V supply.

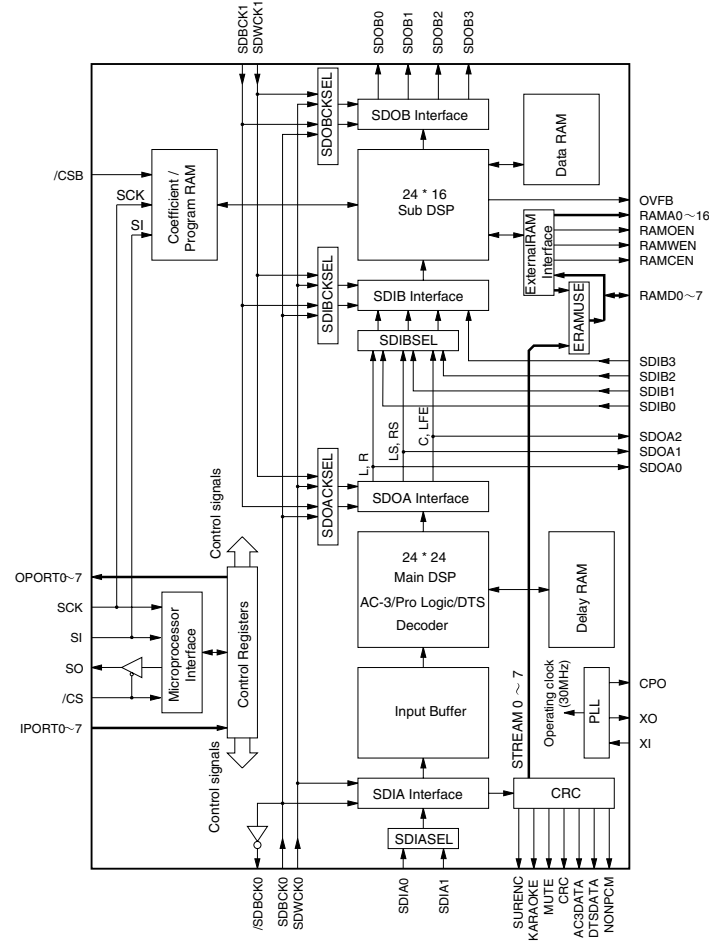
QL07/QU02:NJU3718



Q351:LC72720



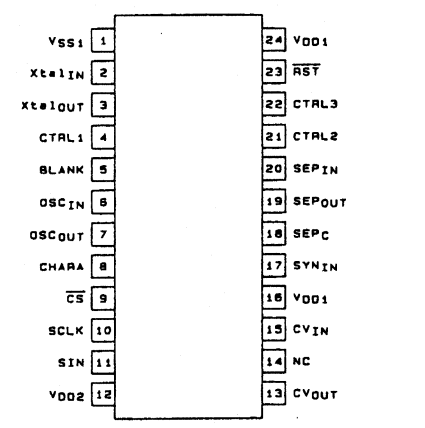
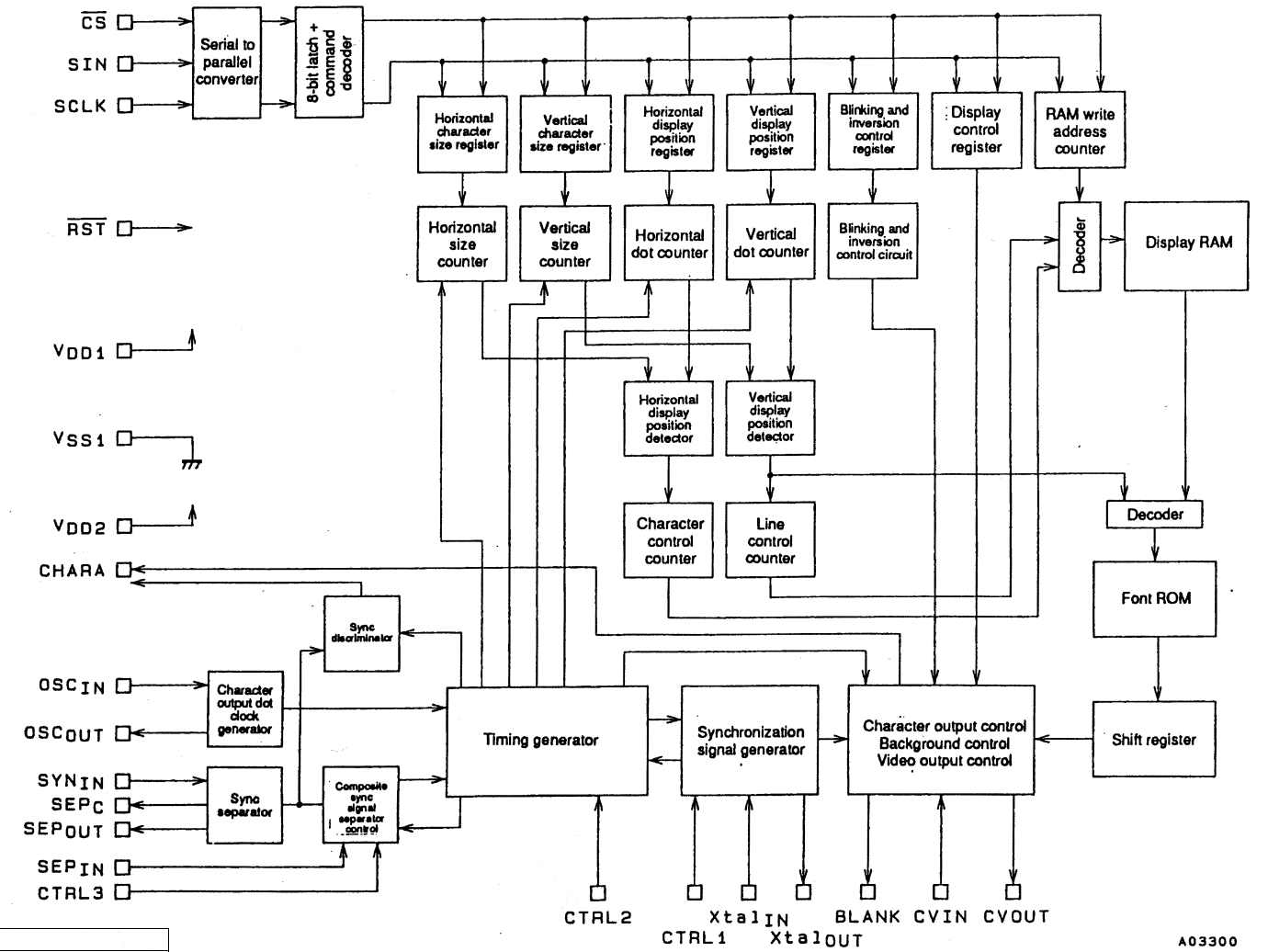
VREF	1	24	SVR
MPXIN	2	23	CE
Vdda	3	22	D1
Vssa	4	21	CL
FLOUT	5	20	DO
CIN	6	19	RDS-ID
T1	7	18	SYNC
T2	8	17	T7(CORREC/ARI-ID/BE0)
T3(CORCL)	9	16	T6(ERROR/57K/BE1)
T4(CORDA)	10	15	Vssd
T5(CRSFT)	11	14	Vddd
		13	XIN



No.	NAME	I/O	FUNCTION
1	VDD1	-	+5V power supply (for I/Os)
2	RAMCEN	O	External SRAM Interface /CE
3	RAMA16	O	External SRAM Interface address 16
4	RAMA15	O	External SRAM Interface address 15
5	SDIB0	I+	PCM input 0 to Sub DSP
6	SDIB1	I+	PCM input 1 to Sub DSP
7	SDIB2	I+	PCM input 2 to Sub DSP
8	XI	I	Crystal oscillator connection or input external clock (12.288 MHz)
9	XO	O	Crystal oscillator connection
10	VSS	-	Ground
11	AVDD	-	+3.3V power supply (for PLL circuit)
12	SDIB3	I+	PCM input 3 to Sub DSP
13	TEST	O	Test terminal (to be open in normal use)
14	TEST	O	Test terminal (to be open in normal use)
15	OVFB	O	Detection of overflow at Sub DSP
16	DTSDATA	O	DTS data detection (Refer to "Status Register".)
17	AC3DATA	O	AC-3 data detection (Refer to "Status Register".)
18	SDOB3	O	PCM output from Sub DSP
19	CPO	A	Output terminal for PLL, to be connected to ground through the external analog filter circuit. (Refer to "External Circuit for PLL".)
20	AVSS	-	Ground (for PLL circuit)
21	VDD2	-	+3.3V power supply (for core logic)
22	SDOA2	O	PCM output from Main DSP (C, LFE)
23	SDOA1	O	PCM output from Main DSP (LS, RS)
24	SDOA0	O	PCM output from Main DSP (L, R)
25	RAMA14	O	External SRAM Interface address 14
26	RAMA13	O	External SRAM Interface address 13
27	RAMA12	O	External SRAM Interface address 12
28	RAMA11	O	External SRAM Interface address 11
29	RAMA10	O	External SRAM Interface address 10
30	VSS	-	Ground
31	VDD1	-	+5V power supply (for I/Os)
32	OPORT0	O	Output port for general purpose. (Refer to "OPORT Register")
33	OPORT1	O	Output port for general purpose. (Refer to "OPORT Register")
34	OPORT2	O	Output port for general purpose. (Refer to "OPORT Register")
35	OPORT3	O	Output port for general purpose. (Refer to "OPORT Register")
36	OPORT4	O	Output port for general purpose. (Refer to "OPORT Register")
37	OPORT5	O	Output port for general purpose. (Refer to "OPORT Register")
38	OPORT6	O	Output port for general purpose. (Refer to "OPORT Register")
39	OPORT7	O	Output port for general purpose. (Refer to "OPORT Register")
40	VSS	-	Ground
41	VDD2	-	+3.3V power supply (for core logic)
42	RAMA9	O	External SRAM interface address 9
43	RAMA8	O	External SRAM interface address 8
44	RAMA7	O	External SRAM interface address 7
45	SDOB2	O	PCM output from Sub DSP
46	SDOB1	O	PCM output from Sub DSP
47	SDOB0	O	PCM output from Sub DSP
48	SDBCK1	I+	Bit clock input for SDOA, SDIB, SDOB. (Refer to "SDOA, SDIB, SDOB Register")
49	SDWCK1	I+	Word clock input for SDOA, SDIB, SDOB. (Refer to "SDOA, SDIB, SDOB Register")
50	VSS	-	Ground

No.	NAME	I/O	FUNCTION
51	VDD2	-	+3.3V power supply (for core logic)
52	NONPCM	O	Detection of non PCM data. (Refer to "Status Register")
53	CRC	O	Detection of AC-3 CRC error. (Refer to "Status Register")
54	MUTE	O	Detection of auto-mute. (Refer to "Status Register")
55	KARAOKE	O	Detection of AC-3 karaoke data. (Refer to "Status Register")
56	SURENC	O	Detection of AC-3 2/0 mode Dolby surround encoded input (Refer to "Status Register")
57	SDBCK0	O	Inverted SDBCK0 clock output (refer to "Block diagram")
58	RAMA6	O	External SRAM Interface address 6
59	RAMA5	O	External SRAM Interface address 5
60	VSS	-	Ground
61	RAMA4	O	External SRAM Interface address 4
62	/IC	Is	Initial clear
63	TEST	O	Test terminal (to be open in normal use)
64	RAMA3	O	External SRAM Interface address 3
65	/CSB	Is+	Sub DSP Chip select
66	/CS	Is	Microprocessor interface Chip select
67	SO	Ot	Microprocessor interface Serial data output
68	SI	Is	Microprocessor interface/Sub DSP Serial data input
69	SCK	Is	Microprocessor interface/Sub DSP clock input
70	RAMA2	O	External SRAM Interface address 2
71	VDD1	-	+5V power supply (for I/Os)
72	RAMD0	I+/O	External SRAM Interface data (STREAM 0 output when External SRAM is not in use)
73	RAMD1	I+/O	External SRAM Interface data (STREAM 1 output when External SRAM is not in use)
74	RAMD2	I+/O	External SRAM Interface data (STREAM 2 output when External SRAM is not in use)
75	RAMD3	I+/O	External SRAM Interface data (STREAM 3 output when External SRAM is not in use)
76	RAMD4	I+/O	External SRAM Interface data (STREAM 4 output when External SRAM is not in use)
77	RAMD5	I+/O	External SRAM Interface data (STREAM 5 output when External SRAM is not in use)
78	RAMD6	I+/O	External SRAM Interface data (STREAM 6 output when External SRAM is not in use)
79	RAMD7	I+/O	External SRAM Interface data (STREAM 7 output when External SRAM is not in use)
80	VSS	-	Ground
81	VDD2	-	+3.3V power supply (for core logic)
82	SDWCK0	I	Word clock input for SDIA, SDOA, SDIB, SDOB (Refer to "SDIA, SDOA, SDIB, SDOB Register")
83	SDBCK0	I	Bit clock input for SDIA SDOA SDIB SDOB (Refer to "SDIA, SDOA, SDIB, SDOB Register")
84	SDIA0	I	AC-3/DTS bitstream (or PCM) data input for Main DSP (Refer to "SDIA Register")
85	SDIA1	I	AC-3/DTS bitstream (or PCM) data input for Main DSP (Refer to "SDIA Register")
86	RAMA1	O	External SRAM Interface address 1
87	RAMA0	O	External SRAM Interface address 0
88	RAMWEN	O	External SRAM Interface /WE
89	RAMOEN	O	External SRAM Interface /OE
90	VSS	-	Ground
91	VDD2	-	+3.3V power supply (for core logic)
92	IPORT7	I+	Input port for general purpose (Refer to "IPORT Register")
93	IPORT6	I+	Input port for general purpose (Refer to "IPORT Register")
94	IPORT5	I+	Input port for general purpose (Refer to "IPORT Register")
95	IPORT4	I+	Input port for general purpose (Refer to "IPORT Register")
96	IPORT3	I+	Input port for general purpose (Refer to "IPORT Register")
97	IPORT2	I+	Input port for general purpose (Refer to "IPORT Register")
98	IPORT1	I+	Input port for general purpose (Refer to "IPORT Register")
99	IPORT0	I+	Input port for general purpose (Refer to "IPORT Register")
100	VSS	-	Ground

Note) Is : Schmidt trigger input terminal
 I+ : Input terminal with a pull-up resistor
 O : Digital output terminal
 Ot : Tri-state digital output terminal
 A : Analog terminal



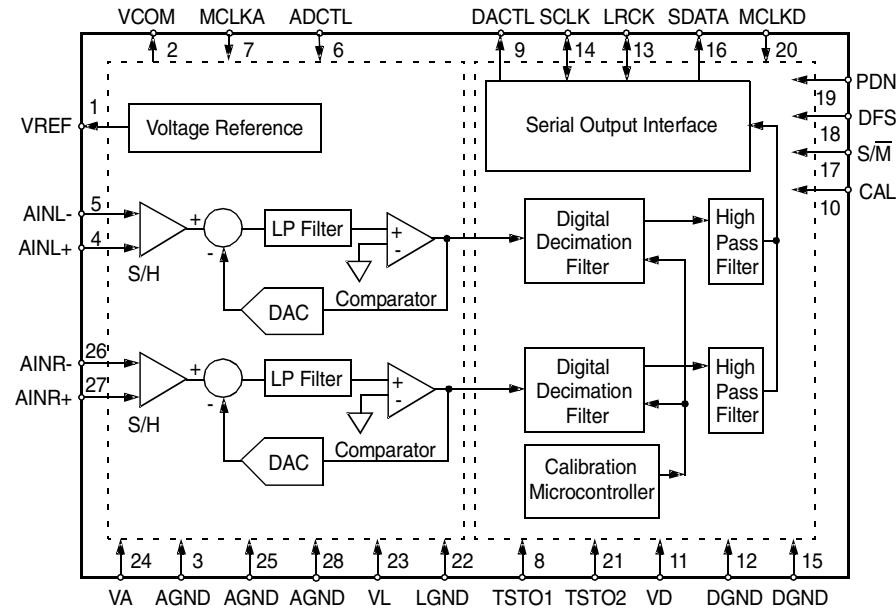


Table mapping pin names to functions: VREF (Voltage Reference), VCOM (Common Mode Voltage Output), AGND (Analog Ground), VA (Analog Power), VL (Logic Power), LGND (Logic Ground), VD (Digital Power), DGND (Digital Ground), AINR-/AINR+ (Differential Right Channel Analog Inputs), AINL-/AINL+ (Differential Left Channel Analog Inputs), ADCTL (Analog Control Data Input), MCLKA (Analog Section Clock Input), TSTO1/TSTO2 (Test Outputs), DACTL (Digital Control Output), MCLKD (Digital Section Clock Input), CAL (Calibration), VD (Digital Format Select), S/M (Slave/Master Mode), LRCK (Left/Right Clock), SDATA (Serial Data Output), SCLK (Serial Clock).

Power Supply Connections

- VA - Analog Power, Pin 24. Positive analog supply. Nominally +5 volts.
VL - Logic Power, Pin 23. Positive logic supply for the analog section. Nominally +5 volts.
AGND - Analog Ground, Pins 3, 25, and 28. Analog ground reference.
LGND - Logic Ground, Pin 22. Ground reference for the logic portions of the analog section.
VD - Digital Power, Pin 11. Positive supply for the digital section. Nominally +5 volts.
DGND - Digital Ground, Pins 12 and 15. Digital ground reference for the digital section.

Analog Inputs

- AINR-, AINR+ - Differential Right Channel Analog Inputs, Pins 26 and 27. Analog input connections for the right channel differential inputs. Nominally 4.0 Vpp differential for full-scale digital output.
AINL-, AINL+ - Differential Left Channel Analog Inputs, Pins 4 and 5. Analog input connections for the left channel differential inputs. Nominally 4.0 Vpp differential for full-scale digital output.

Analog Outputs

- VCOM - Common Mode Voltage Output, Pin 2. Nominally +2.5 volts. Requires a 10 mF electrolytic capacitor in parallel with 0.1 mF ceramic capacitor for decoupling to AGND. Caution is required if this output be used to bias the analog input buffer circuits. Refer to the CDB5394 as an example.
VREF - Voltage Reference Output, Pin 1. Nominally +4 volts. Requires a 100 mF electrolytic capacitor in parallel with 0.1 mF ceramic capacitor for decoupling to AGND.

Digital Inputs

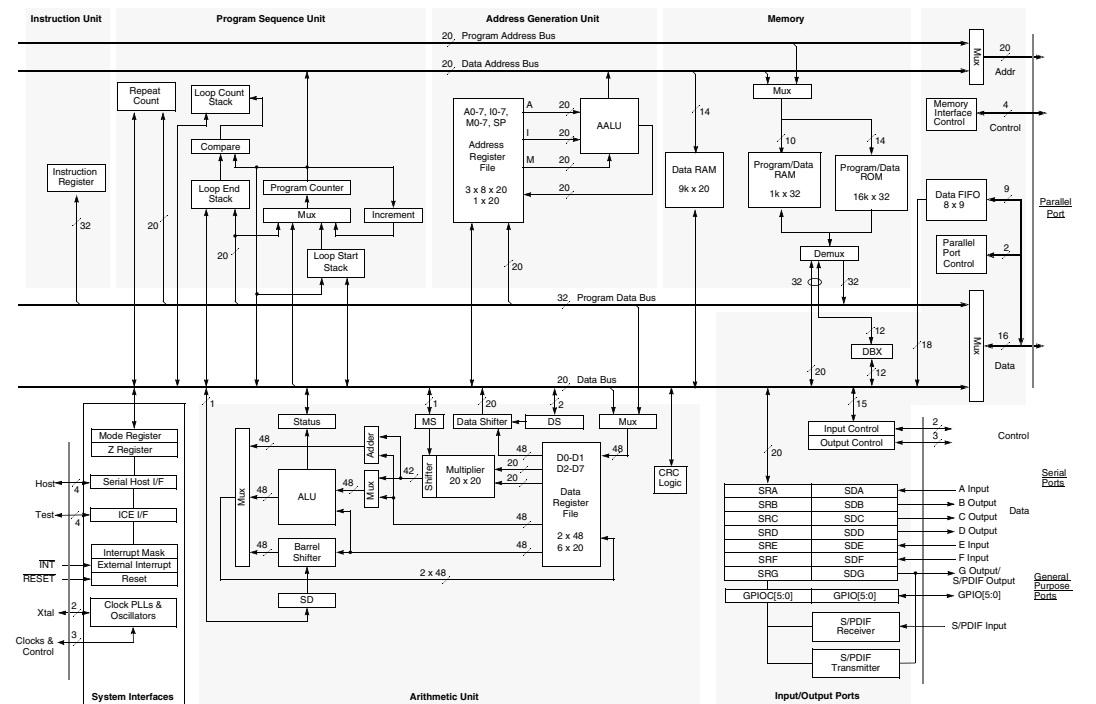
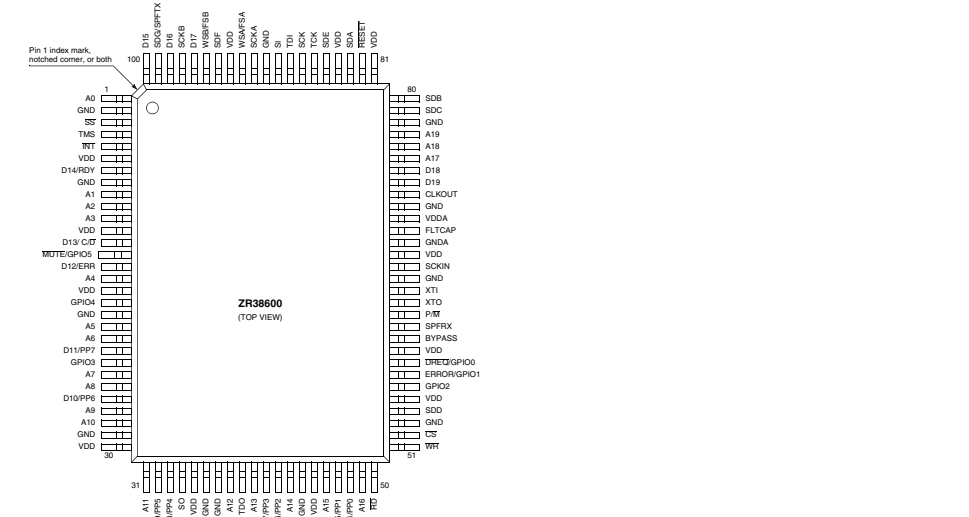
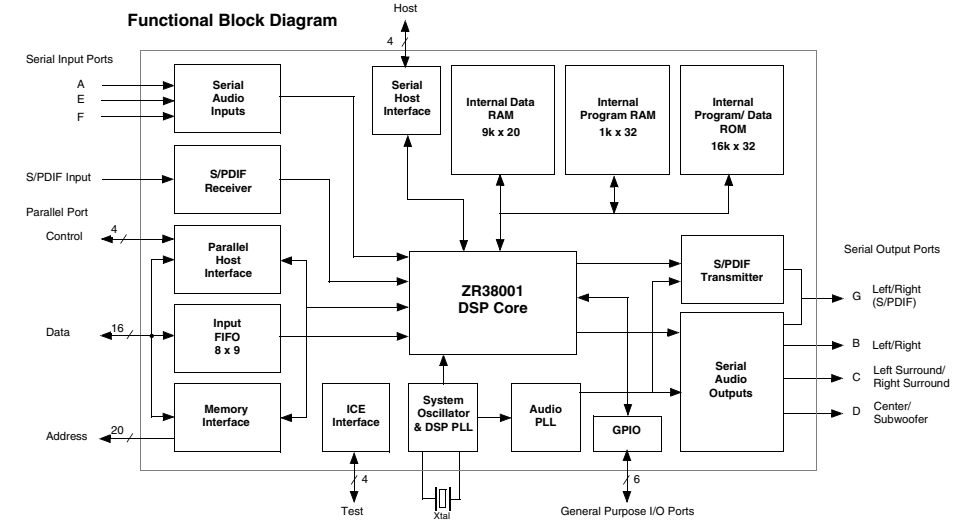
- ADCTL - Analog Control Input, Pin 6. Must be connected to DACTL. This signal enables communication between the analog and digital circuits.
DFS - Digital Format Select, Pin 18. The relationship between LRCK, SCLK and SDATA is controlled by the DFS pin. When high, the serial output data format is 1 2 S compatible. The serial data format is left-justified when low.
CAL - Calibration, Pin 10. Activates the calibration of the tri-level delta-sigma modulator on the rising edge of the CAL input.
MCLKA - Analog Section Input Clock, Pin 7. This clock is internally divided and controls the delta-sigma modulators. An MCLKA frequency of 12.288 MHz sets a modulator sampling rate of 3.072 MHz and a output sample rate of 48 kHz. MCLKA must be connected to MCLKD.
MCLKD - Digital Section Input Clock, Pin 20. MCLKD clocks the digital filter and must be connected to MCLKA. The required MCLKD frequency is determined by the desired sample rate. A MCLKD of 12.288MHz corresponds to Fs equal to 48 kHz. MCLKA must be connected to MCLKD.
PDN - Power Down, Pin 19. When high, the device enters power down. Upon returning low, the device enters normal operation and issues commands to initialize the voltage reference and synchronize the analog and digital sections of the device.
S/M - Slave or Master Mode, Pin 17. When high, the device is configured for Slave mode where LRCK and SCLK are inputs. The device is configured for Master mode where LRCK and SCLK are outputs when S/M is low.

Digital Outputs

- DACTL - Digital to Analog Control Output, Pin 9. Must be connected to ADCTL. This signal enables communication between the digital and analog circuits.
SDATA - Digital Audio Data Output, Pin 16. The 24-bit audio data is presented MSB first, in 2's complement format. This pin has a internal pull-down resistor and must remain low during the power-up sequence to avoid accessing a test mode.
LRCK - Left/Right Clock, Pin 13. LRCK determines which channel, left or right, is to be output on SDATA. The relationship between LRCK, SCLK and SDATA is controlled by the Digital Format Select (DFS) pin. In master mode, LRCK is an output whose frequency is equal to Fs. In Slave Mode, LRCK is an input whose frequency must be equal to Fs.
SCLK - Serial Data Clock, Pin 14. Clocks the individual bits of the serial data from SDATA. The relationship between LRCK, SCLK and SDATA is controlled by the Digital Format Select (DFS) pin. In master mode, SCLK is an output clock at 64•L Fs. In slave mode, SCLK is an input which requires a continuously supplied clock at any frequency from 48•L to 128•L Fs (64•L is recommended).

Miscellaneous

- TSTO1, TSTO2 - Test Outputs, Pins 8 and 21. These pins are intended for factory test outputs. They must not be connected to any external component or any length of circuit trace.



Detailed Block Diagram

6. SERVICE PROGRAM

REMARK

If these service programs are set, All user preset memories will be cleared.

1. FACTORY mode (Tracking point memory)

This **FACTORY mode** can be use for measurement of the tuner circuit.

When the product is POWER ON, press both [**MEMO**] and [**MODE ▼**] buttons simultaneously over 3 seconds.

FLD shows "**FACTORY**" for 3 seconds. Press [**PRESET**] button, FLD shows "**PRESET SEL**".

The tuning frequencies are memorized as follows.

Band	VERSION	P1	P2	P3	P4
FM AUTO [MHz]	K, N, S, U	90.0	98.0	106.0	87.5
	F	78.0	83.0	88.0	76.0

Band	SCAN STEP	P5	P6	P7	P8	P9	P10	P11	P12
AM [kHz]	10 kHz(U)	600	1000	1400	520				
	9 kHz(F, K, S)	603	999	1404	531				
	MW/LW(N)	603	999	1404	171	207	270	152	531

2. FLD segment check mode

This mode is available to check all luminous segments by the following steps.

1. When the product is FACTORY mode (Refer to above mentioned "**1. FACTORY mode**"), press [**DISPLAY OFF**] button on remote control unit. FLD shows "**SERVICE**" for 2 seconds.
2. All segments and all LED light up for 5 seconds.
3. Each segment lights up step by step.
4. Press [**DISPLAY OFF**] button again, then this mode will be stopped and the product will be FACTORY mode.

3. Version of microprocessor (CPU)

This program is available to confirm the version of each CPU by the following steps.

QY01 (main) : When the product is POWER ON, press both [**CL**] and [**TREBLE ▼**] buttons simultaneously over 3 seconds.

FLD shows the version of program code for QY01.

Q691 (DSP) : When the product is POWER ON, press both [**CL**] and [**BASS ▼**] buttons simultaneously over 3 seconds.

FLD shows the version of program code for Q691.

4. Input and output test mode

This mode is available for the functions as shown in Fig 1 by the following steps.

1. When the product is FACTORY mode (Refer to above mentioned "**1. FACTORY mode**"), press both [**MEMO**] and [**TREBLE ▼**] buttons simultaneously.
2. FLD shows "**AUTO D1**". By pressing both [**MEMO**] and [**TREBLE ▼**] buttons simultaneously each time, the mode is changed in the following order.

Fig 1 Input and output test mode

ORDER	INDICATION for FLD	MODE FUNCTION
1	AUTO D1	Input selection mode (without using system setup menu)
2	ALL CH D1	5 or 6 channels output mode (This mode is available for 2 channels input)
3	INPULSE --	This mode is development use only
4	CD/DIG1	This mode is the same status as FACTORY mode

4.1. Input selection mode (without setting to system setup menu)

This mode is available to select the input without setting to system setup menu by the following steps.

1. When FLD shows "AUTO D1" (Refer to "**4. Input and output test mode**"), the input can be shifted by pressing [**MODE**] button for the remote commander only each time as shown in Fig 2. ([**MODE**] button is in page4 of **AMP** function for RC-18SR)

Fig 2. Input selection order by pressing [**MODE**] button each time

ORDER	INDICATION for FLD	INPUT STATUS
1	AUTO D1	DIG. 1 IN
2	AUTO D2	DIG. 2 IN
3	AUTO D3	DIG. 3 IN
4	AUTO D4	DIG. 4 IN
5	AUTO RF	RF IN
6	AUTO CD	CD IN (Analog)

Note: Surround mode is fixed "**AUTO**" mode automatically.

4.2. 5.1 channels output mode

This mode is available to output the same signal from 5 channels, even though 2 channels audio signal comes in.

As the result, all channels output can be confirmed by using analog stereo signal or PCM audio signal.

AC-3 or DTS source is not necessary to output from any channel in this mode.

1. When FLD shows "ALL CH D1" (Refer to "**4. Input and output test mode**"), the input can be shifted by pressing [**MODE**] button for the remote commander only each time as shown in Fig 3. ([**MODE**] button is in page4 of **AMP** function for RC-18SR)
2. Supply to 2 channels PCM signal for digital input or 2 channels analog signal for analog input. But, Left channel and Right channel of input signal should be equal.
3. Then each output from the product is the same as the input signal. (Subwoofer channel is respond to lower than 80Hz signal)

Fig 3. Input selection order by pressing [**MODE**] button each time

ORDER	INDICATION for FLD	INPUT STATUS
1	ALL CH D1	DIG. 1 IN
2	ALL CH D2	DIG. 2 IN
3	ALL CH D3	DIG. 3 IN
4	ALL CH D4	DIG. 4 IN
5	ALL CH RF	RF IN
6	ALL CH CD	CD IN (Analog)

5. Transistor MUTE mode

In mute situation on the product, output signal is muted by Volume control IC and muting transistor.

But, this mode is available to work the muting transistor only by the following steps.

1. When the product is FACTORY mode (Refer to "**1. FACTORY mode**"), press [**MUTE**] button for remote commander only.
2. FLD shows "**TrMUTE ON**", then muting transistor circuit is active only.

6. How to reset the product

When the product is POWER ON, press both [**CL**] and [**MODE ▼**] buttons simultaneously.

FLD shows "**DEFAULT**" for 3 seconds, then all memories are cleared.

7. 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 (F, K, N, S) 1000 kHz (U)	Level 300 μ V/m (50dB/m) Mod. 400 Hz 30%	Tuning point	LA06	Output level (L or R) Maximum at TAPE-OUT

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

This adjustment is not necessary normally, because the coil LA06 is preset by the original supplier. It is necessary when the incorrect usable sense and frequency response.

2. AM Tracking Adjustment (MW) [For N only]

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 (F, K, N, S) 600 kHz (U)	Level 300 - 400 μ V/m Mod. 400 Hz 30%	603 kHz (F, K, N, S) 600 kHz (U)	LA01	Output level (L or R) Maximum at TAPE-OUT
2		1404 kHz (F, K, N, S) 1400 kHz (U)	Level 300 - 400 μ V/m Mod. 400 Hz 30%	1404 kHz (F, K, N, S) 1400 kHz (U)	CA01	Output level (L or R) Maximum at TAPE-OUT
3	Repeat step 1 and 2 until sensitivity be maximized.					

3. AM Tracking Adjustment (LW) (ONLY N VERSION)

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 μ V/m Mod. 400 Hz 30%	171 kHz	LA03	Output level (L or R) Maximum at TAPE-OUT
2		270 kHz	Level 300 - 400 μ V/m Mod. 400 Hz 30%	270 kHz	CA08	Output level (L or R) Maximum 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 (F, K, N, S) 1000 kHz (U)	500 μ V/m (54 dB/m)	999 kHz (F, K, N, S) 1000 kHz (U)	RA11	"TUNED" indicate on FLD
2			1000 μ V/m (60 dB/m)	AUTO SCAN	Only Confirm	"TUNED" indicate on FLD

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 Ω)	98 MHz (K, N, S, U) 83 MHz (F)	500 μ V (54 dB) MONO 1 kHz / Dev.40kHz 53.3% (K, N, S) MONO 1 kHz / Dev. 75 kHz 100% (U, F)	98 MHz (P2)	L201	Distortion level Minimum 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 Ω)	98 MHz (K, N, S, U) 83 MHz (F)	10 μ V (20 dB) MONO 1 kHz / Dev.40 kHz 53.3% (K, N, S) MONO 1 kHz / Dev. 75 kHz 100% (U,F)	98 MHz (P2) 83 MHz (P2)	R212	"TUNED" indicate on FLD
2			Over mentioned level +3 dB	AUTO SCAN	Only Confirm	"TUNED" indicate on FLD

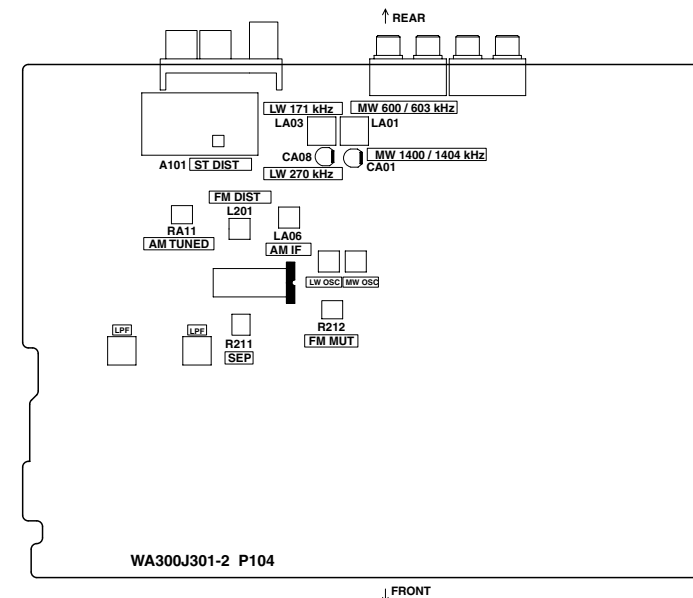
7. FM STEREO Distortion Adjustment

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**.

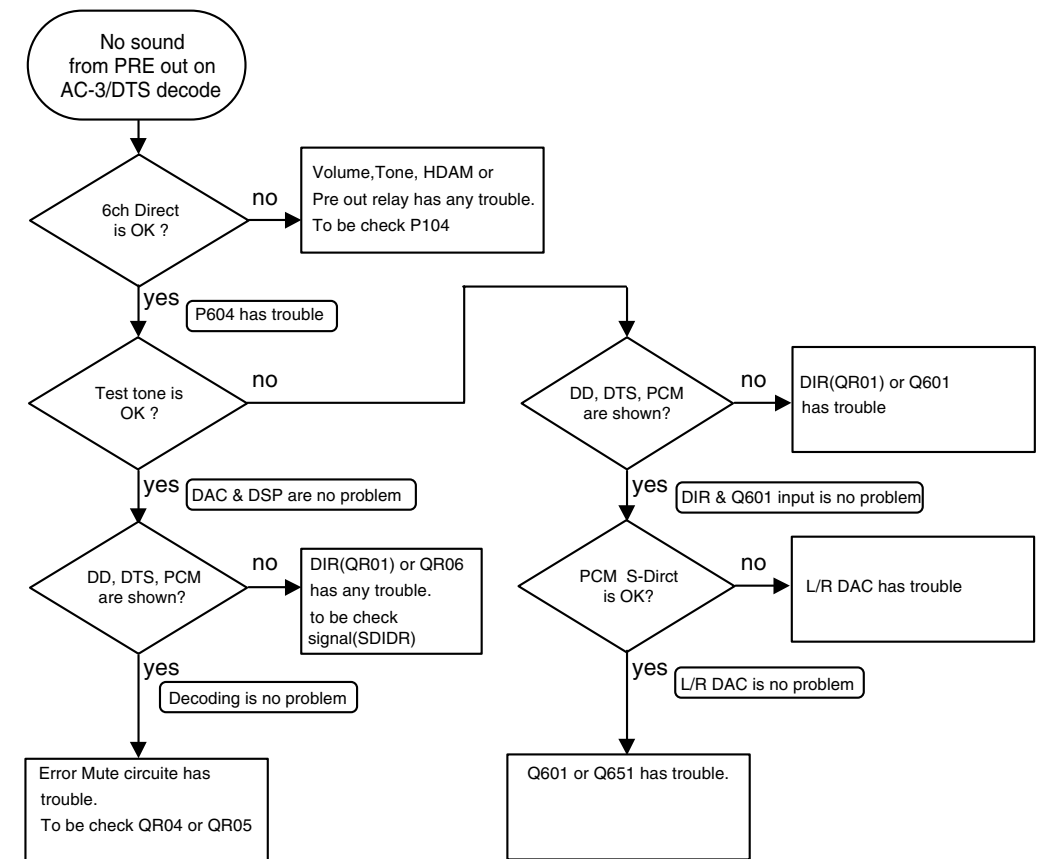
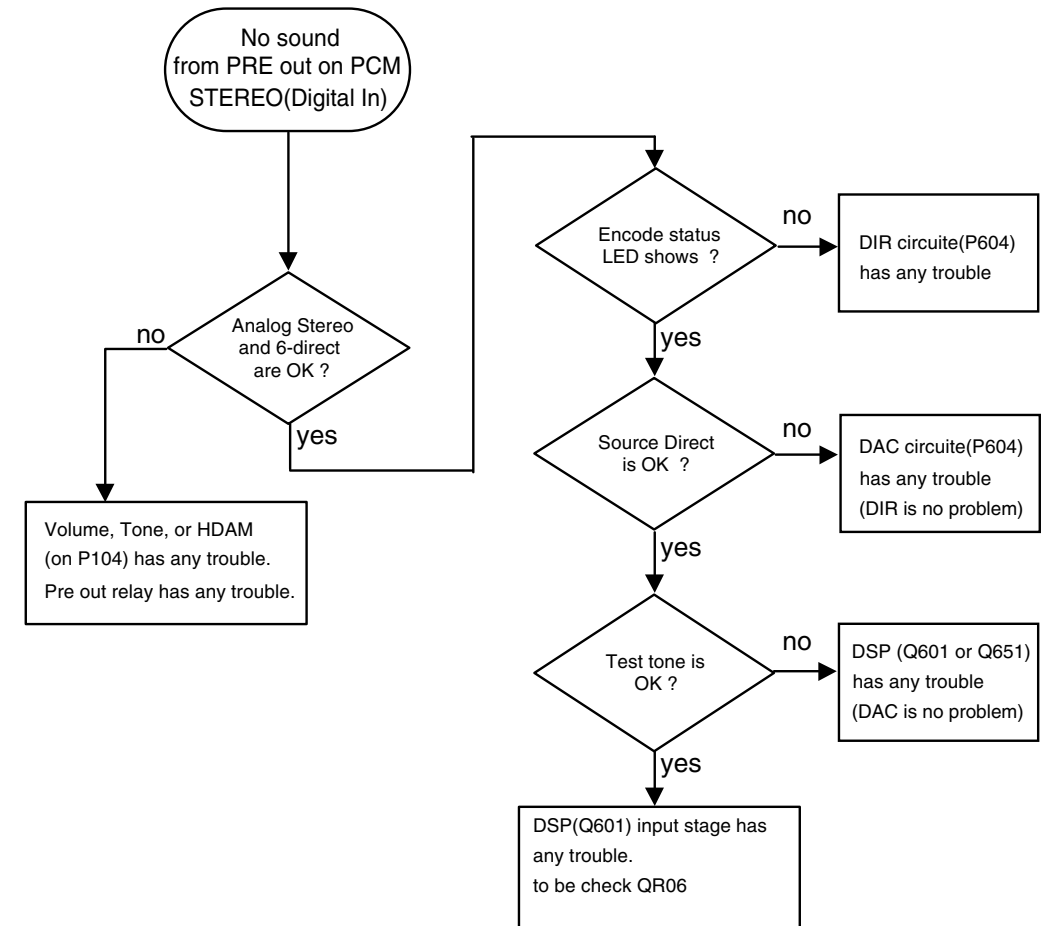
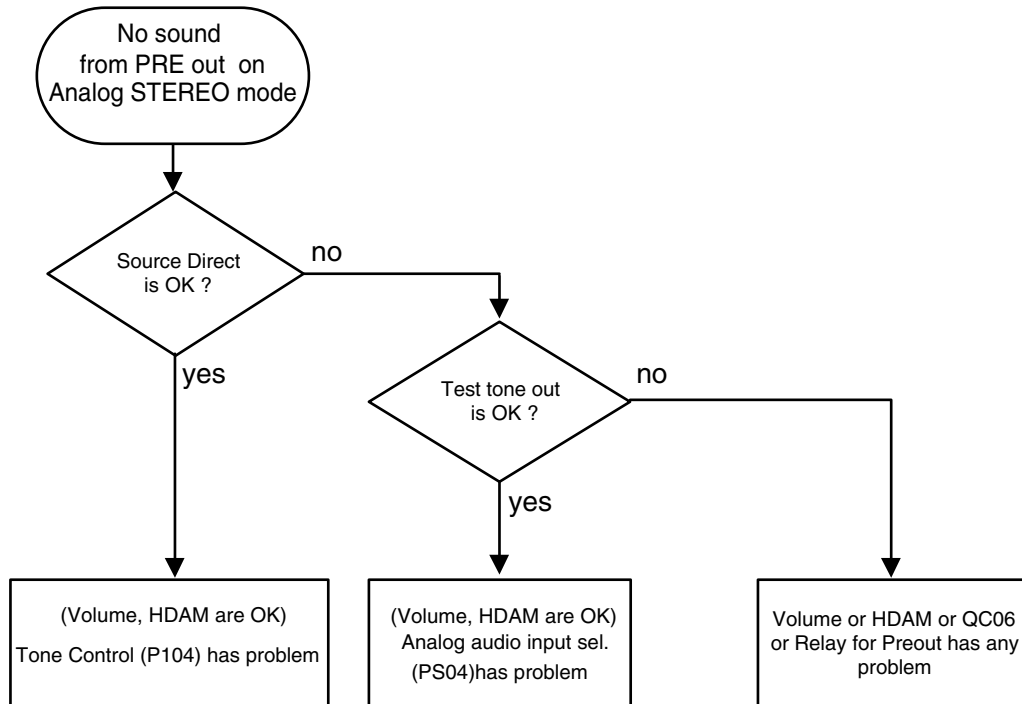
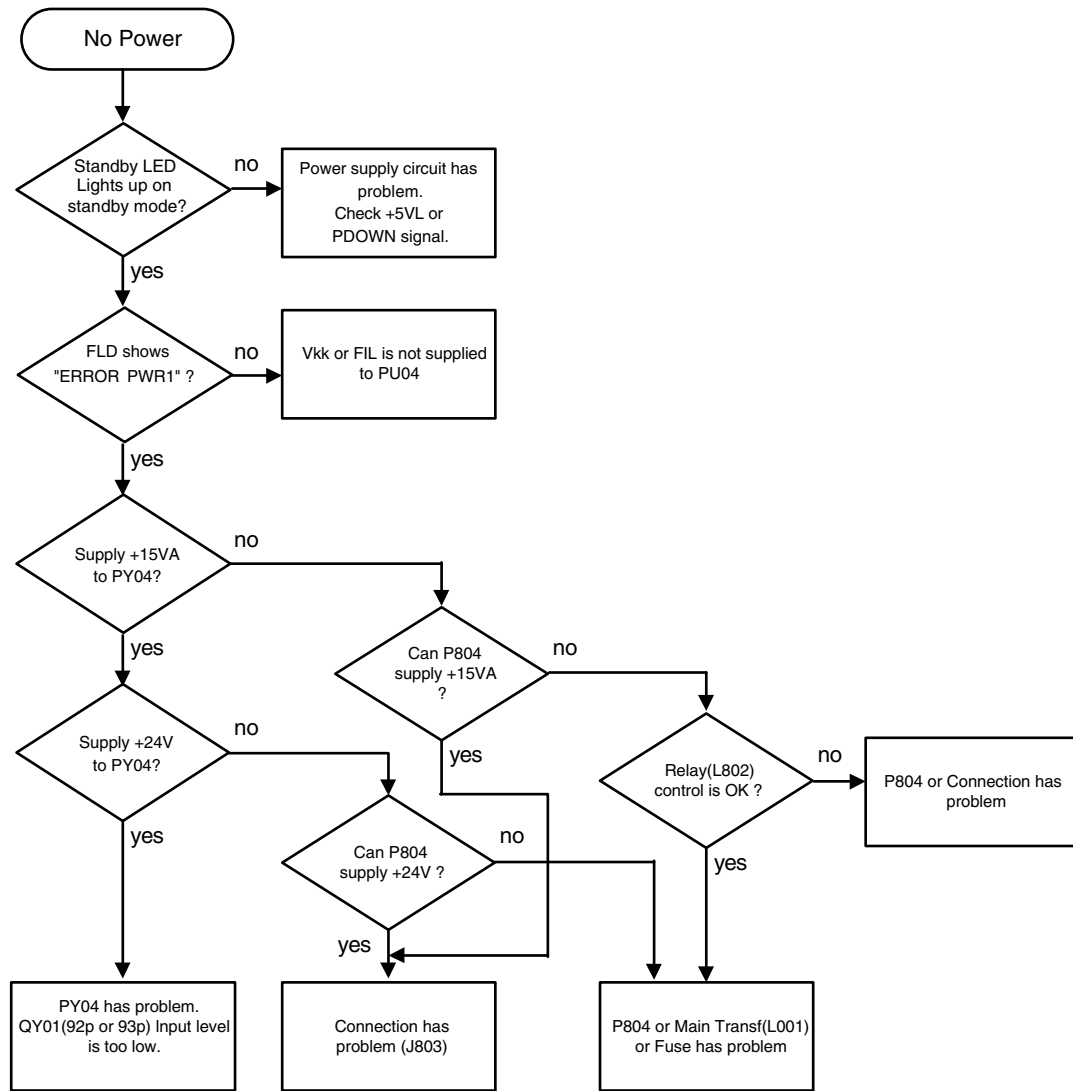
Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 Ω)	98 MHz (K, N, S, U) 83 MHz (F)	500 μ V (54 dB) L or R 1 kHz / Dev. 40 kHz 53.3% PILOT 19 kHz / Dev. 6 kHz 8% (K, N, S)	98 MHz (P2) 83 MHz (P2)	IF COIL in FRONT END	Distortion level Minimum at TAPE-OUT
2			L or R 1 kHz / Dev. 67.5 kHz 90% PILOT 19 kHz / Dev. 6.75 kHz 9% (U, F)			Only Confirm

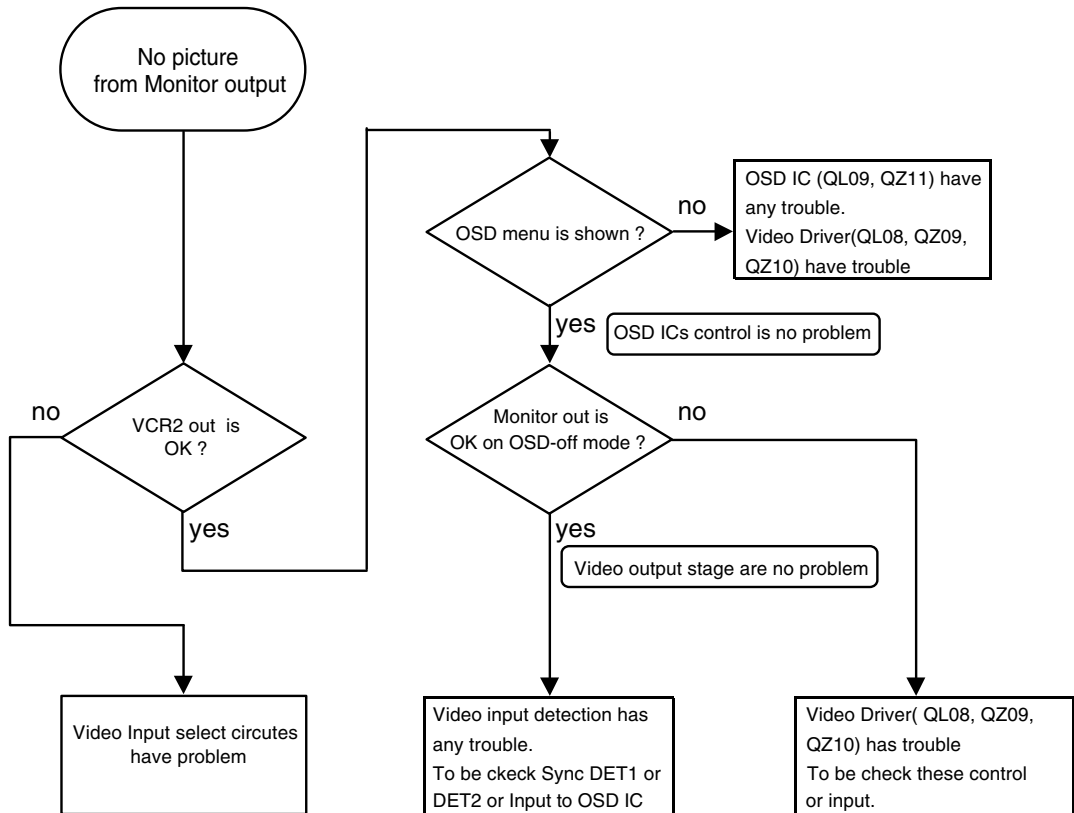
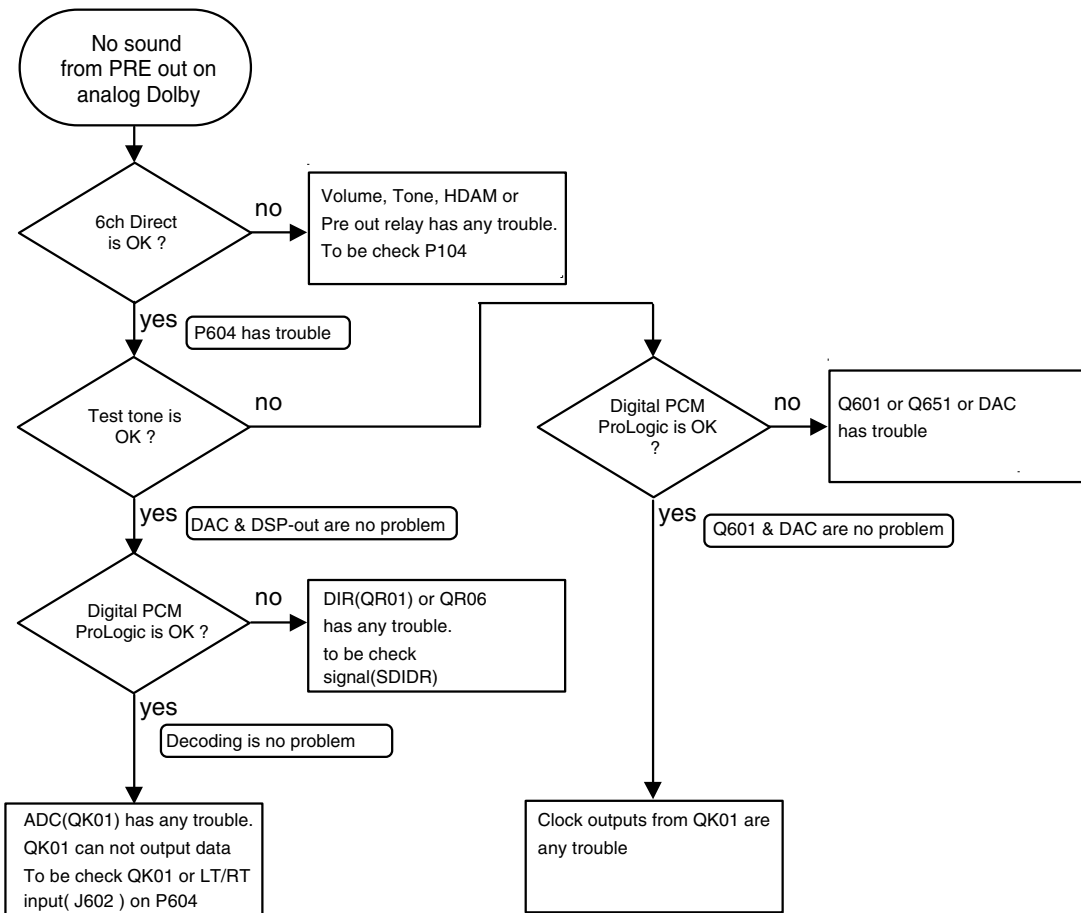
8. FM STEREO Separation Adjustment

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 Ω)	98 MHz (K, N, S, U) 83 MHz (F)	same specification as FM STEREO distortion adjustment. Input only L channel .	98 MHz (P2) 83 MHz (P2)	R211	Output level Minimum at TAPE-OUT channel R
2			same specification as FM STEREO distortion adjustment. Input only R channel .			98 MHz (P2) 83 MHz (P2)



8. TROUBLE SHOOTING





9. TECHNICAL DESCRIPTION

This product has two DSP ICs, one is for Dolby Digital (AC-3) decoding or DTS (Digital Theater System) decoding, another is for THX processing.

Multi channel sound is reproduced by connecting with DVD player or LD player.

Also Dolby Pro Logic decode is available to analog audio and PCM digital audio.

Additionally, 96kHz PCM stereo audio playback is possible.

Decoding circuit is consist of 13 ICs (DIR, two DSP, ADC, five DAC, AC-3 RF demodulator, two data separator and CPU).

DOLBY DIGITAL (AC-3)

Dolby Digital delivers six totally separate (discrete) channels of sound. Like Dolby Surround Pro Logic, it includes Left, Center and Right channels across the front of the room. Dolby Surround Pro Logic provides a single limited-bandwidth (100 Hz to 7,000 Hz) surround channel which is typically played back in the home through two channels of amplification and two speakers. In comparison, Dolby Digital provides separate (discrete) left surround and right surround channels, for more precise localization of sounds and a more convincing, realistic ambience. And, with Dolby Digital, all five main channels are full range (3 Hz to 20,000 Hz). A subwoofer could be added to each channel, if desired.

The sixth channel, the Low Frequency Effects Channel, will, at times, contain additional bass information to maximize the impact of scenes such as explosions, crashes, etc. Because this channel has only a limited frequency response (3 Hz to 120 Hz), it is sometimes referred to as the “.1” channel. When added to the 5 full range channels, the Dolby Digital system is sometimes referred to as having “5.1” channels.

DTS

An amazing new technology for surround-sound entertainment, DTS Digital Surround is an encode/decode system that delivers six channels (5.1) of master-quality, 20-bit audio. In the encoding process, the DTS algorithm encrypts six channels of 20-bit digital audio information in the space previously allotted for only two channels of 16-bit linear PCM. Then during playback, the DTS decoder reconstructs the original six channels of 20-bit digital audio. Each of these six channels is audibly superior to the 16-bit linear PCM audio found on conventional compact discs.

THX ULTRA

Home THX Controller Technologies : Dubbing stages (where soundtracks are created) and movie theatres do not change their acoustics, equipment, or system equalization when mixing or playing back 5.1 channel sound tracks. They merely divide the surround array of speakers into two symmetrical arrays (hence the term “split surround”). All of the remaining system equalization and setup remains the same. The Home THX Technologies of Re-Equalization, Timbre Matching, and Decorrelation, as well as the Home THX Crossover are still necessary for 5.1 channel formats. Because of the nature of the split surround soundtrack, Home THX Timbre Matching and Decorrelation technologies have been altered to provide correct surround sound balance and spaciousness. Here is a representation of how Home THX Controller Technologies work with the various surround sound formats.

DIR (Digital audio Interface Receiver : QR01 / CS8414)

This circuit extract synchronized clock signals and data from SPDIF signal input.

QR01(CS8414) generates these signals, this chip supports 96kHz sample rate.

1st DSP (Digital Signal Processor for Dolby Digital, Pro Logic, DTS : Q601 / YSS912)

Q601(YSS912) decodes 6 channels audio from encoded data signal input.

Some effects are processed in addition to multi channel decoding on HALL, MATRIX, and MOVIE mode.

2nd DSP (Digital Signal Processor for THX processing : Q651 / ZR38600)

Q651(ZR38600) has the THX 5.1 processing functions. These functions include **Re-equalization, Surround Timbre-Matching, Adaptive Decorrelation, Bass Management, Bass Peak Level Manager, and Loudspeaker Position Time Synchronization.**

Re-equalization takes the edginess or “brightness” out of your home cinema sound, compensating for the fact that sound mixed for theatres will sound too bright when played back through flat response speakers in your home.

Timbre Matching matches the tone of your front speakers to your surrounds to compensate for the fact that only two surround speakers are used in a typical Home Theatre system instead of a full array as in a movie theatre.

Adaptive Decorrelation gives a stereo “feel” when your surrounds are playing mono and automatically switches off when they are playing stereo.

Bass Management Electronic Crossover allows you to use more compact, easier-to-place speakers, while sending bass to a subwoofer system, improving frequency response, lowering distortion and increasing dynamic range.

Bass Peak Level Manager protects your subwoofer from overloading due to the great amount of bass a 5.1 soundtrack delivers.

Loudspeaker Position Time Synchronization lets you easily set up your system for an optimum listening position, which is difficult to achieve within the space constraints of most homes.

ADC (Analog to Digital Converter : QK01 / CS5394)

CS5394 is a complete analog-to-digital converter for stereo digital audio systems. It performs sampling, analog-to-digital conversion and anti-alias filtering, generating 24 bit values for both left and right inputs in serial form.

DAC (Digital to Analog Converter : QD01, QD02, QD03 : QD41, QD42 / AD1855)

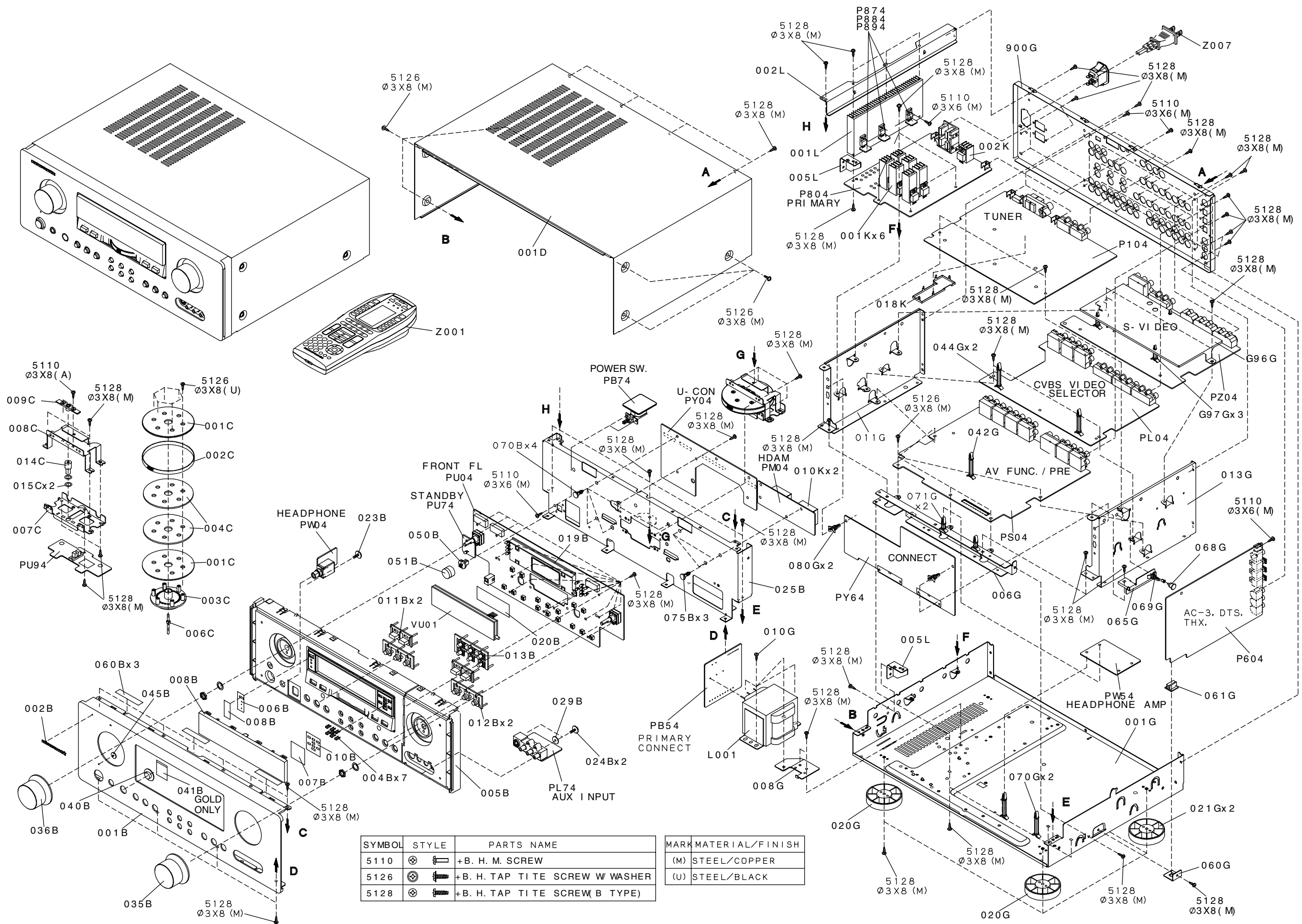
The AD1855 is a high performance, single-chip stereo, audio DAC. There are five AD1855 chips on the board. Four chips are used for L, R, C, and Sub woofer channel individually. Another chip is used for Surround Left & Right.

CPU (Q691 / μ PD78018)

This chip controls some ICs in P604 and communicates with QU01.

Connect to QU01 with serial interface lines.

10. EXPLODED VIEW AND PARTS LIST



SYMBOL	STYLE	PARTS NAME	MARK	MATERIAL/FINISH
⊗	+	+B. H. M. SCREW	(M)	STEEL/COPPER
⊗	+	+B. H. TAP TITE SCREW W WASHER	(U)	STEEL/BLACK
⊗	+	+B. H. TAP TITE SCREW (B TYPE)		

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
001B	GOLD	9965 000 01384	FRONT PANEL ALMI GOLD K	312J248110				PACKING	
001B	BLACK		FRONT PANEL ALMI BLACK U	312J248010	001T	/K,/S		USER MANUAL	312J851350
002B		4822 459 11172	BADGE MARANTZ	185J251010	001T	/N	9965 000 01400	USER MANUAL	312J851310
004B		9965 000 01385	REFLECTOR LED	312J274010	001T	/U		USER MANUAL	312J851250
005B	GOLD	9965 000 01386	CHASSIS FRONT MOLD	312J105110					
005B	BLACK		CHASSIS FRONT MOLD	312J105010	Z001			REMOTE COMMANDER	ZK300J0010
006B			MASK WINDOW L	312J303040				RC-18SR	
007B			MASK WINDOW R	312J303050	▲ Z007	/K		MAINS CORD CCEE 2.5A 250V	ZC01803090
008B	GOLD	9965 000 01387	WINDOW	312J158010	▲ Z007	/N,/S	4822 321 11439	MAINS CORD	ZC01803080
008B	BLACK		WINDOW	312J158010				2P 10A 250V CLASS2	
009B			MASK DTS	312J303010	▲ Z007	/U		MAINS CORD	ZC01803100
010B			MASK L R C LFE LS S RS PEAK	312J303020	▲ Z009	/N,/S	9965 000 01383	UL CSA 10A 125V	
								MAINS CORD	ZC01804070
								10A 250V HONG KONG	
011B	GOLD	9965 000 01388	BUTTON MEMO PRESET	312J270110					
011B	BLACK		BUTTON MEMO PRESET	312J270010					
012B	GOLD	9965 000 01389	BUTTON SURROUND GOLD	312J270120					
012B	BLACK		BUTTON SURROUND BLACK	312J270020					
013B	GOLD	9965 000 01390	BUTTON MODE TONE GOLD	312J270130					
013B	BLACK		BUTTON MODE TONE BLACK	312J270030					
019B		4822 256 92097	HOLDER FL HOLDER	183J271020					
020B		4822 459 11158	STICKER ADHESIVE FOR FL	056J122010					
035B	GOLD	9965 000 01391	KNOB MANI VOL KNOB GOLD	312J154020					
035B	BLACK		KNOB MAIN VOL KNOB BLACK	312J154010					
036B	GOLD	9965 000 01391	KNOB INPUT SELECTOR	312J154020					
036B	BLACK		KNOB INPUT SELECTOR	312J154010					
040B	GOLD	9965 000 01392	LENS IR LENS GOLD	275W355110					
040B	BLACK		LENS IR LENS BLACK	275W355010					
045B		9965 000 01393	LENS STANDBY LENS	312J355010					
050B		9965 000 01394	JOINT POWER JOINT	312J125010					
051B	GOLD	9965 000 01395	BUTTON POWER SW GOLD	255W270110					
051B	BLACK		BUTTON POWER SW BLACK	255W270010					
001C	GOLD	4822 410 11676	ESCUTCHEON	290J063110					
			GYRO UP & DOWN						
001C	BLACK	4822 410 11675	ESCUTCHEON	290J063010					
			GYRO UP & DOWN						
002C	GOLD	9965 000 01396	RUBBER RING GYRO GL	290J066110					
002C	BLACK		RUBBER RING GYRO BL	290J066010					
003C		9965 000 01397	FLYWHEEL GYRO BASE	290J273110					
006C		9965 000 01398	SHAFT GYRO MAIN	290J112010					
009C			RETAINER GYRO UPPER	290J104050					
014C			SHAFT	300J112020					
			GYRO SUSTAINER UNDER						
015C			WASHER FOR UNDER SIDE	59071102G0				NOT STANDARD SPARE PARTS	
					001S	/U		PACKING CASE	312J801010
020G		4822 462 42045	LEG GLD HOT STAMP FRONT	183J057010	002S	/U		CUSHION LEFT	312J809010
021G		4822 462 42048	LEG GLD HOT STAMP REAR	183J057110	003S	/U		CUSHION RIGHT	312J809020
CV09		4822 124 90353	ELECT. 100µF M 10V	OA10701020	Z003	/K,/N,/S		FM ANTENNA 931222R	ZA02800020
▲ L001	/K		POWER TRANSF. 220V 50Hz	TS16675020	Z003	/U	4822 303 30314	FM EXT.ANTENNA	ZA02000070
▲ L001	/N,/S	9965 000 01314	POWER TRANSF. 230V 50Hz	TS16675030	Z004		4822 157 63083	LOOP ANTENNA LA-700HB	LA00055010
▲ L001	/U		POWER TRANSF. 120V 60Hz	TS16675010	Z005	/U	4822 264 30265	PLUG ANT. ADAPTOR	YP90000310
L004		4822 526 10691	FERRITE CORE TFCK-16-8-13	FC50160030	Z006	/K	4822 265 10092	JACK AC ADAPTER S-I6116	YJ04001240
L005		4822 526 10691	FERRITE CORE TFCK-16-8-13	FC50160030	Z008		4822 321 21438	CONNECTIVE CORD	ZD01000330
L006		4822 526 10691	FERRITE CORE TFCK-16-8-13	FC50160030				RCA ST 1M	

11. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTORS

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

① — Resistance value

Examples ;

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

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

CAPACITORS

C***: CERAMIC CAP.

- 3) DD1xxx370, Ceramic capacitor
 Disc type
 Temp.coeff.P350 ~ N1000, 50V
- ② — Capacity value
 ③ — Tolerance

Examples ;

- ② Tolerance (Capacity deviation)
- ±0.25 pF 0
 - ±0.5 pF 1
 - ±5% 5

* Tolerance of COMMON PARTS handled here are as follows :

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

③ Capacity value

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

C***: CERAMIC CAP.

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

Examples ;

- ④ Capacity value
- | | | |
|-----------------|------------------|-------------------|
| 100 pF 101 | 1000 pF 102 | 10000 pF 103 |
| 470 pF 471 | 2200 pF 222 | |

C***: 5) ELECTROLY CAP. (⏏), 6) FILM CAP. (⏏)

- 5) EAxxx10, Electrolytic capacitor
 One-way lead type, Tolerance ±20%
- ⑤ — Working voltage
 ⑥ — Capacity value

Examples ;

- ⑤ Capacity value
- | | | |
|------------------|-----------------|------------------|
| 0.1 μF 104 | 4.7 μF 475 | 100 μF 107 |
| 0.33 μF 334 | 10 μF 106 | 330 μF 337 |
| 1 μF 105 | 22 μF 226 | 1100 μF 118 |
| | | 2200 μF 228 |
- ⑥ Working voltage
- | | |
|---------------|--------------|
| 6.3V 006 | 25V 025 |
| 10V 010 | 35V 035 |
| 16V 016 | 50V 050 |

- 6) DF15xxx350 — Plastic film capacitor
 DF15xxx310 — One-way type, Mylar ±5% 50V
 DF16xxx310 — Plastic film capacitor
 One-way type, Mylar ±10% 50V
- ⑦ — Capacity value

Examples ;

- ⑦ Capacity value
- | | |
|------------------------------|------------------|
| 0.001 μF (1000 pF) 102 | 0.1 μF 104 |
| 0.0018 μF 182 | 0.56 μF 564 |
| 0.01 μF 103 | 1 μF 105 |
| 0.015 μF 153 | |

NOTE : 1) The above CODES (R***, R***, C***, C*** and C***) are omitted on the schematic diagram in some case.
 2) On the occasion, be confirmed the common parts on the parts list.
 3) Refer to "Common Parts List" for the other common parts (RI05, DD4, DK4).

NOTE ON SAFETY FOR FUSIBLE RESISTOR :

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

1. KOA Corporation

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

* Resistance value * Resistance value
 (0.1 Ω - 10 kΩ)

2. Matsushita Electronic Components Co., Ltd

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

* Resistance value * Resistance value

Examples ;

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

ABBREVIATION AND MARKS

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

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。

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJJ)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJJ)
			P104-FM AM TUNER TONE VOL CIRCUIT BOARD P104-CAPACITORS						
CA01		4822 125 50384	TRIM. 20pF VCT51E	CT12000200	CF21		4822 124 22571	ELECT. 10µF 50V	OA10605020
CA02		4822 122 40306	CER. 0.047µF +80%-20% 50V	DK18473310	CF22		4822 124 22571	ELECT. 10µF 50V	OA10605020
CA03		4822 122 31823	CER. 15pF 5% CH 50V BLK	DD15150300	CF31		4822 124 22571	ELECT. 10µF 50V	OA10605020
CA04		4822 121 42466	FILM 390pF 100V ECO-P	DF15391550	CF32		4822 124 22571	ELECT. 10µF 50V	OA10605020
CA05		4822 122 31205	CER. 47pF 5% CH 50V BLK	DD15470300	CF33		4822 124 90354	ELECT. 100µF 16V	OA10701620
CA06		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310	CF34		4822 124 90354	ELECT. 100µF 16V	OA10701620
CA07	/N	4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310	CF35		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
CA08	/N	4822 125 50384	TRIM. 20pF VCT51E	CT12000200	CF36		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
CA09	/N	4822 122 31823	CER. 15pF 5% CH 50 V	DD15150300	CF37		4822 124 90354	ELECT. 100µF 16V	OA10701620
CA11	/N	4822 122 31349	CER. 68pF 5% CH 50V	DD15680300	CF38		4822 124 90354	ELECT. 100µF 16V	OA10701620
CA12	/N	4822 122 10367	CER. 150pF 5% 50V	DD15151300	CF39		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
CA13	/N	4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310	CF40		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
CA14	/N	4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310					
CA18		4822 124 22274	ELECT. 4.7µF M 50V RA-2	OA47505020	CG51		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020
CC07		4822 124 22571	ELECT. 10µF 50V	OA10605020	CG52		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020
CC08		4822 124 22571	ELECT. 10µF 50V	OA10605020	CG53				
CC18		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020	CG56				
CC23					CG57		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CC26		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020	CG59		4822 124 90354	ELECT. 100µF 16V	OA10701620
CC27	/S,/N	4822 122 31205	CER. 47pF 5% CG 50V BLK	DD15470300	CG60		4822 124 90354	ELECT. 100µF 16V	OA10701620
CC28	/S,/N	4822 122 31205	CER. 47pF 5% CH 50V BLK	DD15470300	CG61		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CC31		4822 124 90354	ELECT. 100µF M 16V RA-2	OA10701620	CG62		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CC32		4822 124 90354	ELECT. 100µF M 16V RA-2	OA10701620	CG63				
CC33		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010	CG66		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020
CC34		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010	CG67		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CC35		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310	CG68		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CC36		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310	CG69		4822 124 90354	ELECT. 100µF M 16V	OA10701620
CC39					CG70		4822 124 90354	ELECT. 100µF M 16V RA-2	OA10701620
CC42		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310	CV01		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CC43					CV02		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CC44			JUMPER	75060501P0	CV08		4822 124 90353	ELECT. 100µF M 10V	OA10701020
CC47		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310	C201		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
CC48		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310	C202		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
CC51		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020	C203		4822 122 40306	CER. 0.047µF +80%-20% 50V	DK18473310
CC52		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020	C204		4822 122 40306	CER. 0.047µF +80%-20% 50V	DK18473310
CC55		4822 122 31237	CER. 82pF 5% 50V	DD15820300	C205		4822 124 42182	ELECT. 3.3µF M 50V RA-2	OA33505020
CC56		4822 122 31237	CER. 82pF 5% 50V	DD15820300	C206		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020
CC57		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020	C207		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CC58		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020	C208		4822 122 40306	CER. 0.047µF +80%-20% 50V	DK18473310
CC59		4822 124 90354	ELECT. 100µF 16V	OA10701620	C209		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020
CC60		4822 124 90354	ELECT. 100µF 16V	OA10701620	C210		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
CC61		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310	C211		4822 124 90357	ELECT. 2.2µF M 50V RA-2	OA22505020
CC62		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310	C212		4822 124 41543	ELECT. 1µF M 50V RA-2	OA10505020
CC71		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020	C213		4822 124 22273	ELECT. 0.47µF M 50V RA-2	OA47405020
CC72		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020	C214		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620
CC77		4822 124 90358	ELECT. 22µF M 16V	OA22601620	C215		4822 122 40306	CER. 0.047µF +80%-20% 50V	DK18473310
CC78		4822 124 90358	ELECT. 22µF M 16V	OA22601620	C216		4822 124 90354	ELECT. 100µF M 16V RA-2	OA10701620
CC79		4822 124 90354	ELECT. 100µF M 16V RA-2	OA10701620	C218		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
CC80		4822 122 30043	CER. 10pF D CH 50	DK18103310	C219		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020
CC81		4822 124 90354	ELECT. 100µF M 16V RA-2	OA10701620	C223		4822 122 40586	CER. 10000pF 10%	DA17103110
CC82		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310	C225		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
CF01		4822 124 90358	ELECT. 22µF M 16V	OA22601620	C226		4822 122 40586	CER. 10000pF 10%	DA17103110
CF02		4822 124 90358	ELECT. 22µF M 16V	OA22601620	C233		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
CF03		4822 122 31237	CER. 82pF 5% 50V	DD15820300	C234		4822 124 22274	ELECT. 4.7µF M 50V RA-2	OA47505020
CF04		4822 122 31237	CER. 82pF 5% 50V	DD15820300	C235		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
CF05		4822 124 22571	ELECT. 10µF 50V	OA10605020	C236		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
CF06		4822 124 22571	ELECT. 10µF 50V	OA10605020	C237		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
CF15		4822 124 22571	ELECT. 10µF 50V	OA10605020	C303		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020
CF16		4822 124 22571	ELECT. 10µF 50V	OA10605020	C304		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020
CF17		4822 124 90358	ELECT. 22µF M 16V	OA22601620	C305	/K,/N,/S /U	4822 124 22274	ELECT. 4.7µF M 50V RA-2	OA47505020
CF18		4822 124 90358	ELECT. 22µF M 16V	OA22601620	C306	/K,/N,/S /U	4822 124 22274	JUMPER	75060501P0
CF19		4822 126 10364	CER. 100pF 10%	DA16101110	C306			ELECT. 4.7µF M 50V RA-2	OA47505020
CF20		4822 126 10364	CER. 100pF 10%	DA16101110	C311		4822 124 22274	ELECT. 4.7µF M 50V RA-2	OA47505020
					C312		4822 124 22274	ELECT. 4.7µF M 50V RA-2	OA47505020

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MUJ)
C313	/K,/N,/S	4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620
C314	/K,/N,/S	4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620
C315	/K,/N,/S	4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
C316	/K,/N,/S	4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
C351	/S,/N	4822 122 40586	CER. 10000p ±10%	DA17103110
C352	/S,/N	4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
C356	/S,/N	4822 126 11553	CER. 15pF ±5% 50V	DA15150120
C357	/S,/N	4822 126 11553	CER. 15pF ±5% 50V	DA15150120
C358	/S,/N	4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
C361	/S,/N	4822 126 10364	CER. 100pF ±10%	DA16101110
C362	/S,/N	4822 126 10364	CER. 100pF ±10%	DA16101110
C363	/S,/N	4822 126 10364	CER. 100pF ±10%	DA16101110
C364	/S,/N	4822 126 10364	CER. 100pF ±10%	DA16101110
C365	/S,/N	4822 124 41539	ELECT. 47μF M 16V	OA47601620
C366	/S,/N	4822 124 41543	ELECT. 1μF M 50V RA-2	OA10505020
C373	/S,/N	4822 122 30043	CER. 10000p +80%-20%	DK18103310
C374	/S,/N	4822 122 40617	CER. 0.1μF +80%-20% 50V	DD38104010
C501		4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300
C502		4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300
C503		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020
C504		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
C505		4822 124 90357	ELECT. 2.2μF M 50V RA-2	OA22505020
C507		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
C508		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620
C511		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
C***			P104-CAPACITORS (COMMON) HIGH DIELECTRIC CONSTANT CER. CAPACITOR ±10% 50V : C220 C222 C227/[U] (C317 C318/[K,/N,/S]) (C353 C354/[N,/S]) C367 C368 C371 C372 C510 CC83 (CC89-CC92/[N,/S]) CV03 CV05-CV07	
C***			PLASTIC FILM CAPACITOR ±5% 50V : C217 C301 C302 (C309 C310[K1]) CC01-CC04 CC14-CC17 CC75 CC76 CF07-CF14 CF23-CF30	
RA11		4822 100 11351	TRIM. 10kΩ RH0638CJ4R	RA01030780
RC01			JUMPER	75060501P0
RC02			JUMPER	75060501P0
RC16			JUMPER	75060501P0
RC19			JUMPER	75060501P0
RC51			JUMPER	75060501P0
RC52			JUMPER	75060501P0
RF37			JUMPER	75060501P0
RF38			JUMPER	75060501P0
RG55			JUMPER	75060501P0
RG56			JUMPER	75060501P0
RG59			JUMPER	75060501P0
RG60			JUMPER	75060501P0
▲ R101	/U	4822 050 21003	10kΩ ±5% 1/2W	GG05103120
R201	/U		JUMPER	75060501P0
▲ R207		4822 050 21801	180Ω ±5% 1/4W	GG05181140
R211	/K	4822 100 11352	TRIM. 22kΩ RH0638CJ4R	RA02230780
R211	/S	4822 100 11352	TRIM. 22kΩ RH0638CJ4R	RA02230780
R211	/N	4822 100 11352	TRIM. 22kΩ RH0638CJ4R	RA02230780
R211	/U	4822 100 11351	TRIM. 10kΩ RH0638CS3R	RA01030780
R212		4822 100 11351	TRIM. 10kΩ RH0638CS3R	RA01030780
▲ R217		4822 050 21801	180Ω ±5% 1/4W	GG05181140
R301			JUMPER	75060501P0
∫	/U			
R304				

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MUJ)
▲ R313	/K	4822 116 83929	220Ω ±5% 1/4W	GG05221140
▲ R314	/K,/N,/S	4822 116 83929	220Ω ±5% 1/4W	GG05221140
R356	/S,/N	4822 053 10471	470Ω ±5% 1W	GA05471010
▲ R512		4822 053 10271	270Ω ±5% 1W	GA05271010
R516		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
R***			P104-RESISTORS (COMMON) CARBON FILM FIXED RES. ±5% 1/6W : R201/[K,/N,/S] R202-R206 R208-R210 R213-R216 R220 R221/[N,/S] (R301-304/[K,/N,/S]) R307-R310 R315 R316 (R352-354/[K,/N,/S]) R502 R504-R507 R508/[K/U] R509-R511 R513 R515 RA01 RA02 (RA03 RA04 RA06 RA06- RA10/[N]) RC03-RC15 RC17 RC18 RC20-RC33 RC33 RC35-RC42 RC53-RC62 RC71-RC82 RF01-RF36 RF39-RF46 RF48 RF49 RG51-RG54 RV01-RV14	
DA01		4822 125 50416	DIODE VARISVC342-L	HD40009030
DA02	/K,/S,/U		JUMPER	75060501P0
DA02	/N	4822 130 33697	DIODE 1SS135	HD20017210
DA03	/N	4822 125 50416	DIODE VARISVC342-L	HD40009030
DA04	/N	4822 130 33697	DIODE 1SS135	HD20017210
DA05		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DA06		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DF01		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DF02		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DF03		9965 000 01363	DIODE 1SS201	HE10201050
DF04		9965 000 01363	DIODE 1SS201	HE10201050
DV05				
∫				
DV13		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
D201		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
D202		4822 130 80319	ZENER DIODE 9.1V	HD30911000
D351	/S,/N	4822 130 80317	RD9.1JB2 MTZJ9.1C 04AZ9.1-Z ZENER DIODE 5.1V	HD30511000
D501		4822 130 80317	RD5.1JB2 MTZJ5.1B 04AZ5.1-Y ZENER DIODE 5.1V	HD30511000
D502	/N	4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
D503	/N	4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
QA01	/N	4822 130 41947	TRS. 2SC536SP 2SC2458 2SC1740S 2SC3199 2SC3311A	HT30001000
QA02	/N	4822 130 41947	TRS. 2SC536SP 2SC2458 2SC1740S 2SC3199 2SC3311A	HT30001000
QA03	/N	4822 130 61892	TRS. 2SD2144	HT421442A0
QA04	/N	4822 130 42682	DIG. TRS.	BA10002000
QA05	/N	4822 130 42682	DTA144ES UN4113 47k 47k DIG. TRS.	BA10002000
QA06	/N	4822 130 60588	DTA144ES UN4113 47k 47k DIG. TRS.	BA20001000
			DTC114ES UN4211 10K 10K	

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
QC01		4822 209 73064	IC NJM2068DD	HC10053090	L301		4822 157 71731	M.P.X. COIL 19 38kHz	LS10293020
QC05					L302		4822 157 71731	M.P.X. COIL 19 38kHz	LS10293020
QC06		4822 209 32554	IC LC78213	HC10310030	L350	/N,/S	4822 157 62911	CHOKE	LC13323800
QC07		4822 209 62784	IC TC9215P	HC10262050	L356			LAL02TA3R3J 3.3µH	
QC51		4822 209 73064	IC NJM2068DD	HC10053090	L359	/N,/S	4822 157 62911	CHOKE COIL	LC13323800
QC71		4822 209 73064	IC NJM-2068-DD	HC10053090				LAL02TA3R3J 3.3µH	
QC72		4822 209 62784	IC TC9215P ANALOGUE SW	HC10262050	L501				
QF01		4822 209 73064	IC NJM2068DD	HC10053090	L504		4822 157 70813	CHOKE COIL	LC14733800
QF02		9965 000 01365	IC TC9184AP ELE TONE	HC10444050				LAL02TA470J 47µH	
QF03		4822 209 73064	IC NJM2068DD	HC10053090					
QF04		9965 000 01365	IC TC9184AP ELE TONE	HC10444050	S301	/K	4822 277 21712	SLIDE SWITCH ALPS SSSS92	SS02021470
QG51		9965 0000 1373	IC TC9459F ELE-VOLUME	HC10449050	X351	/S	4822 242 10857	CRYSTAL 4.332MHz	JX04003260
QG52		9965 0000 1373	IC TC9459F ELE-VOLUME	HC10449050	X351	/N	4822 242 10857	CRYSTAL 4.332MHz	JX04003260
QG53		9965 0000 1373	IC TC9459F ELE-VOLUME	HC10449050	X501		4822 242 72333	CRYSTAL AD0618CTB 7.2MHz	JX07001260
QG54		4822 209 17155	IC NJM2068M	HC10102090					
QG55		4822 209 17155	IC NJM2068M	HC10102090					
QV01		4822 209 90532	IC NJU3713D	HC10161090					
QV02									
QV05		4822 130 61227	DIG.TRS.	BA10001000	CD01		4822 126 11687	CER. 0.1µF +80%-20%	DK98104200
QV06		4822 130 60588	DTA114ES UN4111 10K 10K DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000	CD02		4822 126 11687	CER. 0.1µF +80%-20%	DK98104200
QV07					CD03		4822 126 11687	CER. 0.1µF +80%-20%	DK98104200
QV12		4822 130 43818	TRS. 2SC2878 A OR BRANK	HT328782A0	CD05		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
Q201		9965 000 01369	IC LA1837 FM AM IF MPX IC	HC10384030	CD06		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
Q202		4822 130 62294	TRS. 2SC1809S P 150mW	HT318091P0	CD07		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
Q203		4822 130 61227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000	CD09		4822 124 21894	ELECT. 10µF 16V	EJ10601610
Q204		4822 130 42594	DIG.TRS. DTC114ES UN4213 47K 47K	BA20002000	CD10		4822 124 21894	ELECT. 10µF 16V	EJ10601610
Q209	/S	4822 130 41947	TRS. 2SC2458 2SC1740 2SC3199	HT30001000	CD11		4822 124 21894	ELECT. 10µF 16V	EJ10601610
Q209	/N	4822 130 41947	TRS. 2SC2458 2SC1740 2SC3199	HT30001000	CD13		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
Q301	/K	4822 209 83631	IC NJM4558D-D	HC10008090	CD14		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
Q301	/S	4822 209 83631	IC NJM4558D-D	HC10008090	CD15		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
Q301	/N	4822 209 83631	IC NJM4558D-D	HC10008090	CD17		4822 124 21894	ELECT. 10µF 16V	EJ10601610
Q351	/S	4822 209 16175	IC LC72720 RDS DECODER	HC10385030	CD18		4822 124 21894	ELECT. 10µF 16V	EJ10601610
Q351	/N	4822 209 16175	IC LC72720 RDS DECODER	HC10385030	CD19		4822 124 21894	ELECT. 10µF 16V	EJ10601610
Q352	/S	4822 130 61227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000	CD21		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
Q352	/N	4822 130 61227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000	CD22		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
Q353	/S	4822 130 60588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000	CD23		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
Q353	/N	4822 130 60588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000	CD25		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
Q501		9965 000 01370	IC LC72130	HC10394030	CD26		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
A101		9965 000 01368	P104-MISCELLANEOUS VHF TUNER TFFJ4E	AV00903010	CD27		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
FA01			CER. FILTER SFZ450JL3 451K	FF10045410	CD29		5322 126 11578	CER. 1000pF B 50V CHIP	DK96102300
F201		4822 242 70665	CER. FILTER SFE10.7MS3-A	FF11070620	CD30		5322 126 11578	CER. 1000pF B 50V CHIP	DK96102300
F202		4822 242 70665	CER. FILTER SFE10.7MS3-A	FF11070620	CD31		5322 126 11578	CER. 1000pF B 50V CHIP	DK96102300
JC05		9965 000 01315	TERMINAL RCA 2P DIRECT IN	YT02021550	CD41		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
JC06		9965 000 01316	TERMINAL RCA SURR IN L R	YT02021500	CD42		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
J101		4822 290 81632	TERMINAL FM AM ANT PAL	YT03030020	CD43		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
LA01		4822 157 63084	MW ANT COIL 280µH	LA10295170	CD44		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
LA02		4822 157 70779	MW OSC COIL	LO70013010	CD45		4822 124 21894	ELECT. 10µF 16V	EJ10601610
LA03	/N	4822 157 52714	LW-ANT COIL	LA10295160	CD46		4822 124 21894	ELECT. 10µF 16V	EJ10601610
LA04	/N	4822 157 70781	LW-OSC COIL	LO70013020	CD47		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
LA05		4822 157 53589	CHOKE COIL 39mH J	LC23960710	CD48		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
LA06		4822 148 81095	I.F.T. COIL AM IFT K7-H5	LI70033510	CD49		4822 124 21894	ELECT. 10µF 16V	EJ10601610
L201		4822 157 63904	I.F.T. COIL FM DET	LI70376010	CD50		4822 124 21894	ELECT. 10µF 16V	EJ10601610
					CD51		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
					CD52		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
					CD53		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
					CD54		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
					CD55		5322 126 11578	CER. 1000pF B 50V CHIP	DK96102300
					CD56		5322 126 11578	CER. 1000pF B 50V CHIP	DK96102300
					CD61		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
					CD62		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
					CD63				
					CD74		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
					CD81				
					CD92		4822 126 11703	CER. 0.01µF +80%-20% CHIP	DK98103300

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJ)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJ)
CD93					CH82		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CD96		4822 124 90363	ELECT. 220µF M 10V RA-2	OA22701020	CH83		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CD97		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520	CH84		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CD98		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520	CH85		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300
CE01		4822 126 11567	CER. 0.022µF 10% 16V CHIP	DK96223200	CH86		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300
CE02		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020	CJ05				
CE03		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CJ08		4822 121 10792	FILM 220pF 5% 100VPP	OF15221540
CE04		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020	CJ11		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620
CE05		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CJ12		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620
CE06		5322 126 11578	CER. 1000pF 10% B 50V CHIP	DK96102300	CJ13				
CE11		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CJ16		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CE13		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CJ17		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300
CE14		4822 122 33753	CER. 150pF 5% CG 50V CHIP	DD95151300	CJ18		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300
CE15		4822 122 33753	CER. 150pF 5% CG 50V CHIP	DD95151300	CJ21		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CE18		4822 126 13837	CER. 0.1µF 10% B 10V CHIP	DK96104200	CJ22		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CE19		4822 126 14417	CER. 0.01µF 10% 50V CHIP	DK96103300	CJ23		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CE33		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020	CJ24		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CE34		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CJ55				
CE35		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020	CJ58		4822 121 10792	FILM 220pF 5% 100VPP	OF15221540
CE36		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CJ59		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CE37		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CJ60		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CE39		4822 124 12389	ELECT. 47µF 16V BP	EQ47601630	CJ61		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300
CE42		4822 126 14417	CER. 0.01µF 10% 50V CHIP	DK96103300	CJ62		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300
CE43		4822 126 14417	CER. 0.01µF 10% 50V CHIP	DK96103300	CJ75				
CE44		4822 122 33752	CER. 18pF 50V 5% CHIP	DD95150300	CJ78		4822 121 10792	FILM 220pF 5% 100VPP	OF15221540
CE45		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CJ79		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CE46		4822 122 33757	CER. 18pF CHIP	DD95180300	CJ80		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CE51		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CJ81		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300
CE52		5322 126 11578	CER. 1000pF B 50V CHIP	DK96102300	CJ82		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300
CE53		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CK01				
CE54		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CK04		4822 124 90352	ELECT. 10µF M 16V RA-2	OA10601620
CE56					CK05				
CE60		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CK08		4822 126 11696	CER. 470pF 5% J SL CHIP	DD95471370
CE61		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020	CK11				
CE62		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020	CK20		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CE63		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CK21		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CE65		4822 126 11703	CER. 0.01µF +80%-20% CHIP	DK98103300	CK22		4822 124 21894	ELECT. 10µF 16V	EJ10601610
CE66		4822 126 11703	CER. 0.01µF +80%-20% CHIP	DK98103300	CK23		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CH05					CK24		5322 126 11583	CER. 0.01µF 10% B 25V CHIP	DK96103200
CH08		4822 121 10792	FILM 220pF 5% 100VPP	OF15221540	CK25		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CH14		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620	CK26		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CH15					CK27		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CH18		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CK28		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CH26		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620	CK30		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CH27		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CK31		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CH28		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CK33		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CH31		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520	CK34		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CH32		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520	CK35				
CH33		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CK40		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CH34		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CK41		4822 124 21894	ELECT. 10µF 16V	EJ10601610
CH35		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300	CK42		4822 124 21894	ELECT. 10µF 16V	EJ10601610
CH36		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300	CK43		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620
CH55					CK44		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620
CH58		4822 121 10792	FILM 220pF 5% 100VPP	OF15221540	CK45		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300
CH64		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620	CK46		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300
CH65					CR01		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CH68		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CR02		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CH76		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620	CR03		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CH77		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CR04		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CH78		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200					
CH81		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520					

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CR05		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	C693		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
CR06		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020	C694		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020
CR07		4822 126 13837	CER. 0.1μF ±10% B 10V CHIP	DK96104200	C695		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
CR08		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	C696		5322 126 11583	CER. 0.01μF ±10% B 25V CHIP	DK96103200
CR10		4822 126 11568	CER. 470pF CHIP	DK96471300	C697		5322 126 11583	CER. 0.01μF ±10% B 25V CHIP	DK96103200
CR11		4822 126 13837	CER. 0.1μF ±10% B 10V CHIP	DK96104200					
CR12		4822 126 13837	CER. 0.1μF ±10% B 10V CHIP	DK96104200					
CR13		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200					
CR14		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200					
CR15		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020					
CR16		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200					
CR17		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020					
CR18		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200					
CR20		5322 126 11583	CER. 0.01μF ±10% B 25V CHIP	DK96103200					
CR21		5322 126 11583	CER. 0.01μF ±10% B 25V CHIP	DK96103200					
CR22									
CR25		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RD01		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
CR26		4822 126 11703	CER. 0.01μF +80%-20% CHIP	DK98103300	RD05		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
CR27		4822 126 11703	CER. 0.01μF +80%-20% CHIP	DK98103300	RD07		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
CR28		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020	RD61				
CR29		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RD61		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
CR30		5322 126 11578	CER. 1000pF ±10% B 50V CHIP	DK96102300	RD66				
C601		4822 126 11703	CER. 0.01μF +80%-20% CHIP	DK98103300	RD92		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
C602		4822 126 11703	CER. 0.01μF +80%-20% CHIP	DK98103300	RD94		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
C603		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020	RE01		4822 051 30561	CHIP 560Ω ±5% 1/16W	NN05561610
C604		4822 126 11703	CER. 0.01μF +80%-20% CHIP	DK98103300	RE02		4822 051 30101	CHIP 100Ω ±5% 1/16W	NN05101610
C605		4822 126 11703	CER. 0.01μF +80%-20% CHIP	DK98103300	RE03		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
C606		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020	RE04		4822 116 83211	CHIP 1.8kΩ ±5% 1/16W	NN05182610
C607		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE05		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
C608		4822 122 33761	CER. 22pF ±5% CG 50V CHIP	DD95220300	RE06		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
C609		4822 122 33761	CER. 22pF ±5% CG 50V CHIP	DD95220300	RE07		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
C610		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE08		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
C611		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020	RE10		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
C612		4822 126 11568	CER. 470pF ±10% CHIP	DK96471300	RE11		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
C613		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE12		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
C614		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE13		4822 051 30151	CHIP 150Ω ±5% 1/16W	NN05151610
C615		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE14		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
C616		5322 126 11583	CER. 0.01μF ±10% B 25V CHIP	DK96103200	RE15				
C617		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE15		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
C618		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE18				
C619		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020	RE19		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
C620		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020	RE20		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
C621		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE21		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
C622		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020	RE22		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
C623		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE23		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
C624		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE24		4822 051 30332	CHIP 3.3kΩ ±5% 1/16W	NN05332610
C625		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE25		4822 051 30822	CHIP 8.2kΩ ±5% 1/16W	NN05822610
C651		4822 126 11703	CER. 0.01μF +80%-20% CHIP	DK98103300	RE31		4822 051 30392	CHIP 3.9kΩ ±5% 1/16W	NN05392610
C652		4822 126 11703	CER. 0.01μF +80%-20% CHIP	DK98103300	RE32		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
C653		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020	RE33		4822 051 30104	CHIP 100kΩ ±5% 1/16W	NN05104610
C654		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE34		4822 051 30223	CHIP 22kΩ ±5% 1/16W	NN05223610
C655		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE35		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
C656		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE41		4822 051 30223	CHIP 22kΩ ±5% 1/16W	NN05223610
C657		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020	RE42		4822 051 30683	CHIP 68kΩ ±5% 1/16W	NN05683610
C658					RE43		4822 116 83206	CHIP 120Ω ±5% 1/16W	NN05121610
C662		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE44		4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610
C663		4822 126 13396	CER. 0.047μF ±10% 16V CHIP	DK96473200	RE45		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
C664		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE46		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
C666		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE47		4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610
C667		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020	RE48		4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610
C668		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE49		4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610
C669		4822 126 14417	CER. 0.01μF B 50V CHIP	DK96103300	RE50		4822 117 12139	CHIP 22Ω ±5% 1/16W	NN05220610
C670		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE61		4822 051 30104	CHIP 100kΩ ±5% 1/16W	NN05104610
C680		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE62		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
C691		4822 126 14417	CER. 0.01μF B 50V CHIP	DK96103300	RE63		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
C692		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE64		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
					RE65		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJ)
RE67		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610
RE68		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610
RH01				
∫		4822 116 83211	CHIP 1.8kΩ 5% 1/16W	NN05182610
RH12				
RH13				
∫		4822 051 30222	CHIP 2.2kΩ 5% 1/16W	NN05222610
RH19				
RH21		4822 051 30152	CHIP 1.5kΩ 5% 1/16W	NN05152610
RH22		4822 051 30222	CHIP 2.2kΩ 5% 1/16W	NN05222610
RH23		4822 116 83208	CHIP 12kΩ 5% 1/16W	NN05123610
RH24		4822 051 30101	CHIP 100Ω 5% 1/16W	NN05101610
RH25		4822 051 30104	CHIP 100kΩ 5% 1/16W	NN05104610
RH26				
∫		4822 051 30222	CHIP 2.2kΩ 5% 1/16W	NN05222610
RH32				
RH34		4822 051 30152	CHIP 1.5kΩ 5% 1/16W	NN05152610
RH35		4822 051 30222	CHIP 2.2kΩ 5% 1/16W	NN05222610
RH36		4822 116 83208	CHIP 12kΩ 5% 1/16W	NN05123610
RH37		4822 051 30101	CHIP 100Ω 5% 1/16W	NN05101610
RH38		4822 051 30104	CHIP 100kΩ 5% 1/16W	NN05104610
RH39		4822 051 30222	CHIP 2.2kΩ 5% 1/16W	NN05222610
RH40		4822 051 30222	CHIP 2.2kΩ 5% 1/16W	NN05222610
RH41		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
RH42		4822 051 30105	CHIP 1MΩ 5% 1/16W	NN05105610
RH51		4822 116 83211	CHIP 1.8kΩ 5% 1/16W	NN05182610
RH52		4822 116 83211	CHIP 1.8kΩ 5% 1/16W	NN05182610
RH53				
∫		4822 116 83211	CHIP 1.8kΩ 5% 1/16W	NN05182610
RH62				
RH63				
∫		4822 051 30222	CHIP 2.2kΩ 5% 1/16W	NN05222610
RH69				
RH72		4822 051 30222	CHIP 2.2kΩ 5% 1/16W	NN05222610
RH73		4822 116 83208	CHIP 12kΩ 5% 1/16W	NN05123610
RH74		4822 051 30101	CHIP 100Ω 5% 1/16W	NN05101610
RH75		4822 051 30104	CHIP 100kΩ 5% 1/16W	NN05104610
RH76				
∫		4822 051 30222	CHIP 2.2kΩ 5% 1/16W	NN05222610
RH82				
RH85		4822 051 30472	CHIP 4.7kΩ 5% 1/16W	NN05472610
RH86		4822 051 30222	CHIP 2.2kΩ 5% 1/16W	NN05222610
RH87		4822 051 30101	CHIP 100Ω 5% 1/16W	NN05101610
RH88		4822 051 30104	CHIP 100kΩ 5% 1/16W	NN05104610
RJ01				
∫		4822 116 83211	CHIP 1.8kΩ 5% 1/16W	NN05182610
RJ12				
RJ13				
∫		4822 051 30222	CHIP 2.2kΩ 5% 1/16W	NN05222610
RJ16				
RJ17		4822 051 30472	CHIP 4.7kΩ 5% 1/16W	NN05472610
RJ18		4822 051 30472	CHIP 4.7kΩ 5% 1/16W	NN05472610
RJ19		4822 116 83215	CHIP 5.6kΩ 5% 1/16W	NN05562610
RJ20		4822 116 83215	CHIP 5.6kΩ 5% 1/16W	NN05562610
RJ21		4822 051 30101	CHIP 100Ω 5% 1/16W	NN05101610
RJ22		4822 051 30101	CHIP 100Ω 5% 1/16W	NN05101610
RJ23		4822 051 30104	CHIP 100kΩ 5% 1/16W	NN05104610
RJ24		4822 051 30104	CHIP 100kΩ 5% 1/16W	NN05104610
RJ25		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
RJ26		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
RJ51				
∫		4822 116 83211	CHIP 1.8kΩ 5% 1/16W	NN05182610
RJ62				
RJ71				
∫		4822 116 83211	CHIP 1.8kΩ 5% 1/16W	NN05182610
RJ82				

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJ)
RK01				
∫		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
RK04				
RK05		4822 116 83339	CHIP 56Ω 5% 1/16W	NN05560610
RK06		4822 116 83339	CHIP 56Ω 5% 1/16W	NN05560610
RK07				
∫		4822 051 30472	CHIP 4.7kΩ 5% 1/16W	NN05472610
RK18				
RK19				
∫		4822 051 30399	CHIP 39Ω 5% 1/16W	NN05390610
RK22				
RK23		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
RK24		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
RK31		4822 051 30101	CHIP 100Ω 5% 1/16W	NN05101610
RK32		4822 051 30472	CHIP 4.7kΩ 5% 1/16W	NN05472610
RK34		4822 051 30101	CHIP 100Ω 5% 1/16W	NN05101610
RK35				
∫		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
RK37				
RR01		4822 051 30759	CHIP 75Ω 5% 1/16W	NN05750610
RR02		4822 051 30759	CHIP 75Ω 5% 1/16W	NN05750610
RR03		4822 051 30104	CHIP 100kΩ 5% 1/16W	NN05104610
RR04		4822 051 30104	CHIP 100kΩ 5% 1/16W	NN05104610
RR05		4822 051 30472	CHIP 4.7kΩ 5% 1/16W	NN05472610
RR06		4822 051 30472	CHIP 4.7kΩ 5% 1/16W	NN05472610
RR07		4822 051 30339	CHIP 33Ω 5% 1/16W	NN05330610
RR08		4822 051 30339	CHIP 33Ω 5% 1/16W	NN05330610
RR09		4822 051 30759	CHIP 75Ω 5% 1/16W	NN05750610
RR10		4822 051 30391	CHIP 390Ω 5% 1/16W	NN05391610
RR12				
∫		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610
RR15				
RR16		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
RR17				
∫		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610
RR20				
RR21		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
RR22		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
RR23		4822 051 30102	CHIP 1kΩ 5% 1/16W	NN05102610
RR24		4822 051 30102	CHIP 1kΩ 5% 1/16W	NN05102610
RR25		4822 051 30759	CHIP 75Ω 5% 1/16W	NN05750610
RR27				
∫		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
RR84				
R601		4822 051 30105	CHIP 1MΩ 5% 1/16W	NN05105610
R602		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
R603		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610
R604		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610
R605		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610
R606		4822 051 30223	CHIP 22kΩ 5% 1/16W	NN05223610
R651		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
R652		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
R653		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610
R654		4822 051 30472	CHIP 4.7kΩ 5% 1/16W	NN05472610
R655		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610
R656		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610
R657		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610
R659		4822 051 30472	CHIP 4.7kΩ 5% 1/16W	NN05472610
R661		4822 051 30223	CHIP 22kΩ 5% 1/16W	NN05223610
R662		4822 051 30473	CHIP 47kΩ 5% 1/16W	NN05473610
R663		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610
R683		4822 051 30473	CHIP 47kΩ 5% 1/16W	NN05473610
R684		4822 051 30479	CHIP 47Ω 5% 1/16W	NN05470610
R685		4822 051 30479	CHIP 47Ω 5% 1/16W	NN05470610
R686		4822 051 30479	CHIP 47Ω 5% 1/16W	NN05470610
R687		4822 051 30474	CHIP 470kΩ 5% 1/16W	NN05474610
R689		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
R691		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610	Q602		9965 000 01322	IC TC7WT241FU	HC007405K0
R692		4822 051 30104	CHIP 100kΩ 5% 1/16W	NN05104610	Q603		9965 000 01323	IC TC7WT126FU	HC007305K0
R694		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610	Q604		9965 000 01324	IC 1M SRAM 8X128K 15NS	HC10088000
R695		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610	Q605		9965 000 01326	IC TCW32FU	HC10419050
R697		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610	Q651		4822 209 17013	IC ZR38600 AC-3 THX5.1 DECODER	HC10051990
			P604-SEMICONDUCTORS		Q652		9965 000 01338	IC TC7SET04F	HC007205K0
DE01		4822 130 10683	CHIP DIODE KV1851-TL00	HZ40003420	Q691		9965 000 01339	MICROPROCESSOR SUB CPU THX μPD78018F	HU300JN50F
DR01		4822 130 81324	CHIP DIODE 1SS302	HZ20018050	Q692		9965 000 01323	IC TC7WT126FU	HC007305K0
DR02		4822 130 81324	CHIP DIODE 1SS302	HZ20018050	Q693		4822 209 32921	IC S-80745AN	HC10048530
DR03		4822 130 80522	CHIP DIODE 1SS300 DAP202U	HZ21006000	Q694		4822 209 12845	IC S-80730SN-DT-X RESET	HC10054530
D692		4822 130 83715	CHIP DIODE 1SS301 DAN202U	HZ21005000				P604-MISCELLANEOUS	
D693		4822 130 83715	CHIP DIODE 1SS301 DAN202U	HZ21005000				TERMINAL YKC21-3707	YT02011030
QD01		9965 000 01319	IC AD1855 DAC 24BIT 96kHz	HC10013840	JE01		4822 267 10603	TERMINAL RCA 2P	YT02021540
QD02		9965 000 01319	IC AD1855 DAC 24BIT 96kHz	HC10013840	JR01		9965 000 01340	OPTICAL RECIVER GP1F32R	YJ15000150
QD03		9965 000 01319	IC AD1855 DAC 24BIT 96kHz	HC10013840	JR02		4822 218 11487	OPTICAL RECIVER GP1F32R	YJ15000150
QD41		9965 000 01319	IC AD1855 DAC 24BIT 96kHz	HC10013840	JR03		4822 218 11487	OPTICAL OUTPUT GP1F32T	YJ15000090
QD42		9965 000 01319	IC AD1855 DAC 24BIT 96kHz	HC10013840	JR04		4822 267 31369	TERMINAL 14X14 RA 1L1P	YT02010790
QD43		4822 209 17526	IC TC160G11A/U305 312020050070	HC10438050	JR05		4822 290 81638		
QD44		4822 209 17526	IC TC160G11A/U305 312020050070	HC10438050	LD01				
QE01		4822 130 60669	CHIP TR. 2SC4081 Q R 2SC4116 Y GR	HX300012A0	LD07		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
QE02		4822 130 60669	CHIP TR. 2SC4081 Q R 2SC4116 Y GR	HX300012A0	LD41		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
QE03		4822 130 60669	CHIP TR. 2SC4081 Q R 2SC4116 Y GR	HX300012A0	LD42		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
QE04		4822 209 14876	IC MC14577C	HC10065170	LD45		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
QE05		4822 130 60669	CHIP TR. 2SC4081 Q R 2SC4116 Y GR	HX300012A0	LD46		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
QE06		4822 130 10698	CHIP TR. 2SA1586 Y GR 2SA1576A Q R	HX100012A0	LD81		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
QE07		4822 130 10698	CHIP TR. 2SA1586 Y GR 2SA1576A Q R	HX100012A0	LD82		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
QE08		4822 209 83357	IC NJM4560M	HC10029090	LD83		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
QE09		4822 209 17162	IC PM4007A AC-3 RF DEMODURATOR	HC10016660	LD84		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
QE10		4822 209 14864	IC 8X32K SRAM <35NS	HC10076000	LD85		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
QH01		4822 209 91175	IC NJM2114M OP AMP	HC10175090	LD86		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
QH02		4822 209 91175	IC NJM2114M OP AMP	HC10175090	LE01		4822 157 70681	CHIP INDUCTANCE 68μH NL322522-680K	LU2683010
QH03		4822 209 91175	IC NJM2114M OP AMP	HC10175090	LE02		4822 242 10582	L.C. FILTER SBP-4930 2.88MHz B.P.F	FF30288010
QH04		4822 130 61227	DIG. TRS. DTA114ES ETC	BA10001000	LE03		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
QH05		4822 130 43818	TRS. 2SC2878 A B	HT328782A0	LE04		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
QH06		4822 130 43818	TRS. 2SC2878 A B	HT328782A0	LH01		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
QH51		4822 209 91175	IC NJM2114M OP AMP	HC10175090	LH02		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
QH52		4822 209 91175	IC NJM2114M OP AMP	HC10175090	LH51		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
QH53		4822 209 91175	IC NJM2114M OP AMP	HC10175090	LH52		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
QJ01		4822 209 91175	IC NJM2114M OP AMP	HC10175090	LJ01		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
QJ02		4822 209 91175	IC NJM2114M OP AMP	HC10175090	LJ02		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
QJ51		4822 209 91175	IC NJM2114M OP AMP	HC10175090	LK01		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
QJ71		4822 209 91175	IC NJM2114M OP AMP	HC10175090	LR01		4822 142 60422	PULSE TRANSF. TPS247MMN-0386AN	TP41042030
QK01		9965 000 01317	IC CS5394 2CH ADC 24BIT	HC10003880	LR02		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
QK03		4822 209 91175	IC NJM2114M OP AMP	HC10175090	L601		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
QK04		4822 209 91175	IC NJM2114M OP AMP	HC10175090	L602		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
QK05		4822 209 91175	IC NJM2114M OP AMP	HC10175090	L651		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
QK06		4822 209 91175	IC NJM2114M OP AMP	HC10175090	L691		4822 157 10884	EMI FILTER BLM11A221S	FN31000010
QR01		9965 000 01341	IC CS8414 SPDIF RECEIVER	HC10004880	L692		4822 157 10884	EMI FILTER BLM11A221S	FN31000010
QR02		9965 000 01342	IC TC74HC151AF	HC715100Z0	L693		4822 157 10884	EMI FILTER BLM11A221S	FN31000010
QR03		9965 000 01342	IC TC74HC151AF	HC715100Z0	L694		4822 157 10884	EMI FILTER BLM11A221S	FN31000010
QR04		4822 209 30426	IC 74HC00 CMOS	HC700000Z0	L695		4822 157 10884	EMI FILTER BLM11A221S	FN31000010
QR05		4822 209 30426	IC 74HC01 CMOS	HC700000Z0	L696		4822 157 10884	EMI FILTER BLM11A221S	FN31000010
QR06		4822 209 32879	IC TC74HC157A	HC715705Z0					
QR07		4822 209 31568	IC 74HCU04 CMOS	HC700400Z0					
QR08		4822 209 90909	IC TC7W74FU D-F F	HC10400050					
Q601		9965 000 01321	IC YSS912 DTS AC-3 DECODER	HC10014640					

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MUJ)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MUJ)
L697		4822 157 10884	EMI FILTER BLM11A221S	FN31000010				P804-CAPACITOR (COMMON) ELECTROLYTIC CAPACITOR ±20% : C847	
XE01		9965 000 01320	CRYSTAL 18.432MHZ AT-49	JX18001260				P804-RESISTORS 2.2MΩ ±10% 1/2W FOR UL	RC10225820
X601		4822 242 10851	CRYSTAL 12.288MHZ AT-49	JX12013260				100Ω ±5% 1/4W	GG05101140
X691		4822 242 81727	SERAMIC VIB. CST10.0MTW-TF01 10.0MHZ	FQ01005010				1Ω ±5% 1/4W	GG05010140
			P804-PRIMARY SUPPLY CIRCUIT BOARD					1.2kΩ ±5% 1W	GA05122010
			P804-CAPACITORS					FUSE 100Ω ±2% 1/4W	NF02101140
CB01	/U	4822 122 33276	CER. 0.01μF ±20%	DK17103840				FUSE 100Ω ±2% 1/4W	NF02101140
C801								FUSE 47Ω ±2% 1/4W	NF02470140
C804		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310				150Ω ±5% 1/2W	GG05151120
C805		9965 000 01351	ELECT. 13000μF M 16V RE3	EA13901670				180Ω ±5% 1/2W	GG05181120
C806		4822 124 80707	ELECT. 2200μF 25V RA-2	EA22802570				150Ω ±5 1/2W	GG05151120
C807		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310				180Ω ±5% 1/2W	GG05181120
C808		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310				150Ω ±5% 1/2W	GG05151120
C809		4822 124 90354	CER. 0.01μF +80%-20% 50V	DK18103310				180Ω ±5% 1/2W	GG05181120
C810		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620				150Ω ±5% 1/2W	GG05151120
C811		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620					
C812		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020					
C813		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C814		4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620					
C815		4822 124 90357	ELECT. 2.2μF M 50V RA-2	OA22505020					
C816		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C817		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C818		4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620					
C819		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C820		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620					
C821		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620					
C822		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C823		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C824		4822 124 80396	ELECT. 4700μF 35V RA-2	EA47803510					
C825		4822 124 80396	ELECT. 4700μF 35V RA-2	EA47803510					
C826		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C827		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C828		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020					
C829		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C830		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020					
C831		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C832		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C833		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020					
C834		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020					
C835		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C836		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020					
C837		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C838		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C839		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020					
C840		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C841		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020					
C842		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C843		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020					
C844		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C845		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C846		4822 124 90355	ELECT. 100μF M 50V RA-2	OA10705020					
C848		9965 000 01352	ELECT. 470μF 63V	EA47706310					
C849		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020					
C850		4822 124 80772	ELECT. 47μF M 35V RA-2	OA47603520					
C853		4822 122 40617	CER. 50V DC 0.1μF +80%-20%	DD38104010					
C854		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C855		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C856		4822 124 41538	ELECT. 220μF 35V	OA22703520					
C857		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C858		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
								P804-RESISTORS (COMMON) CARBON FILM FIXED RES. ±5% 1/6W : R804-R807 R814-R821	
								P804-SEMICONDUCTORS	
								DIODE 1D3 1A 200V	HD20002710
								DIODE D5SB-20 I=5.0A V=200V	HE20016290
								DIODE D3SB-20 V=200V I=3.0A	HE20020290
								ZENER DIODE 3.9V	HD30391000
								RD3.9ES B1 MTZJ3.9A 04AZ3.9	
								DIODE 1D3 1A 200V	HD20002710
								JUMPER	75060501P0
								DIODE 1D3 1A 200V	HD20002710
								JUMPER	75060501P0
								DIODE 1D3 1A 200V	HD20002710
								DIODE 1D3 1A 200V	HD20002710
								JUMPER	75060501P0
								DIODE 1D3 1A 200V	HD20002710
								DIODE 1D3 1A 200V	HD20002710
								ZENER DIODE RD33F-T8 B2	HD30080060
								ZENER DIODE 8.2V	HD30821000
								RD8.2ES MTZJ8.2C 04AZ8.2-Z	
								DIODE DIODE 1D3	HD20002710
								DIODE DIODE 1D3	HD20002710
								DIODE DIODE 1D3	HD20002710
								DIODE 1D3 1A 200V	HD20002710
								DIODE 1S133	HD20002000
								DIODE 1D3 1A 200V	HD20002710
								DIODE 1D3 1A 200V	HD20002710
								DIODE 1D3 1A 200V	HD20002710
								IC NJM7806FA +6V 1A	HC38906090
								TRS. 2SD1415	HT41415100
								TRS. 2SD1415	HT41415100
								IC NJM7915FA -15V 1A	HC39915090
								IC NJM7915FA -15V 1A	HC39915090
								TRS. 2SC4793 O Y	HT347932A0
								TRS. 2SC3419 O Y	HT334192A0
								40V 0.8A PC=1.2W 5W	
								TRS. 2SC3419 O Y	HT334192A0
								40V 0.8A PC=1.2W 5W	
								TRS. 2SC3419 O Y	HT334192A0
								40V 0.8A PC=1.2W 5W	

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
Q813		4822 130 41947	TRS. 2SC2458 2SC1740S 2SC3199	HT30001000	CL11 }		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020
▲ Q814		9965 000 01354	IC L780S15 +15V 1A	HC38915030	CL23				
Q815		4822 209 15921	IC RESET S-806D-Z SEIKO	HC10077530	CL24		4822 124 41544	ELECT. 470µF M 6.3V RA-2	OA47700620
Q816		4822 130 61227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000	CL25 }		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020
Q817		4822 130 60588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000	CL31				
▲ FB02	/K,/N,/S	4822 253 30354	P804-MISCELLANEOUS FUSE T400mA 250V BS LISTED	FS10040850	CL32		4822 124 41544	ELECT. 470µF M 6.3V RA-2	OA47700620
▲ FB02	/U		FUSE 800mA 250V UL CSA MITI	FS10080350	CL33		4822 124 41544	ELECT. 470µF M 6.3V RA-2	OA47700620
JB04	/U		JACK 2P AC OUTLET	YJ04002040	CL34		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
▲ LB01	/U	4822 280 20517	RELAY VS24MB UL CSA SEM.	LY10240190	CL35		4822 124 41537	ELECT. 220µF M 6.3V RA-2	OA22700620
LB02		4822 157 70419	EMI NOISE FILTER LF-4D-102	FN01020020	CL36		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
▲ L801		9965 000 01353	RELAY FTR-F1AA024T	LY20240460	CL37		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
▲ L802		9965 000 01353	RELAY FTR-F1AA024T	LY20240460	CL38		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
▲ L803		9965 000 01353	RELAY FTR-F1AA024T	LY20240460	CL39		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
D871		4822 130 82421	P874- +5VD CIRCUIT BOARD DIODE 1D3 1A 200V	HD20002710	CL40		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
▲ Q871		4822 209 31631	IC NJM7805FA +5V 1A	HC38905090	CL41		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
D881		4822 130 82421	P884- +5VA CIRCUIT BOARD DIODE 1D3 1A 200V	HD20002710	CL42		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
▲ Q881		4822 209 31631	IC NJM7805FA +5V 1A	HC38905090	CL43		4822 124 41537	ELECT. 220µF M 6.3V RA-2	OA22700620
D891		4822 130 82421	P894- -5V CIRCUIT BOARD DIODE 1D3 1A 200V	HD20002710	CL44		4822 122 40617	CER. 0.1µF 50V	DD38104010
▲ Q891		4822 209 63179	IC NJM7905FA -5V 1A	HC39905090	CL46	/K,/N,/S	4822 126 10362	CER. 22PF	DA15220110
▲ FB51	/K,/N,/S	4822 071 52002	PB54-PRIMARY CONNECT CIRCUIT BOARD PB54-MISCELLANEOUS FUSE T2.0A 250V TR5 IEC127-3	FS20200200	CL47	/K,/N,/S	4822 126 11553	CER. 15PF	DA15150120
▲ FB51	/U		FUSE T2A 250V TR5	FS20200210	CL48	/U	4822 122 33792	CER. 10PF	DA15100120
▲ FB52	/K,/N,/S	4822 071 52002	FUSE T2.0A 250V TR5 IEC127-3	FS20200200	CL49		4822 126 11591	CER. 24pF ±5% CH 50V BLK	DD15240300
▲ FB52	/U		FUSE T2A 250V TR5	FS20200210	CL50		4822 126 10362	CER. 22PF	DA15220110
▲ FB53	/K,/N,/S	4822 071 51602	FUSE T1.6A 250V	FS20160200	CL52		4822 124 41543	ELECT. 1µF M 50V RA-2	OA10505020
▲ FB53	/U		FUSE 1.6A 125V	FS20160220	CL53		4822 122 40617	CER. 0.1µF 50V	DD38104010
▲ FB54	/K,/N,/S	4822 071 51602	FUSE T1.6A 250V	FS20160200	CL54		4822 124 41537	ELECT. 220µF M 6.3V RA-2	OA22700620
▲ FB54	/U		FUSE 1.6A 125V	FS20160220	CL55		4822 124 41543	ELECT. 1µF M 50V RA-2	OA10505020
▲ FB55	/K,/N,/S	4822 071 55001	FUSE T500mA 250V TR5 IEC127-3	FS20050200	CL56		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020
▲ FB55	/U		FUSE 0.5A 125V	FS20050220	CL57		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020
▲ FB56	/K,/N,/S	4822 071 55001	FUSE T500mA 250V TR5 IEC127-3	FS20050200	CL58		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020
▲ FB56	/U		FUSE 0.5A 125V	FS20050220	CL59		4822 124 41544	ELECT. 470µF M 6.3V RA-2	OA47700620
CB71		4822 122 33276	PB74-POWER SW. CIRCUIT BOARD CER. 0.01µF ±20%	DK17103840	CL60		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020
▲ SB71		9965 000 01361	PUSH SW. POWER TV-5	SP01012470	CL61		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CL01		4822 124 22571	PL04-CVBS VIDEO SELECTOR CIRCUIT BOARD PL04-CAPACITORS ELECT. 10µF M 50V RA-2	OA10605020	CL62		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
CL02		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020	CL63		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
CL03		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020	CL64		4822 124 41537	ELECT. 220µF M 6.3V RA-2	OA22700620
CL04			JUMPER	75060501P0	CL65		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CL05		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020	CL66			JUMPER	75060501P0
CL07		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020	CL67	/U	4822 126 10362	CER. 22PF	DA15220110
CL08		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020	CL68		4822 124 41543	ELECT. 1µF M 50V RA-2	OA10505020
CL09		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020	CL69		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020
CL10		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020	CL70		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
			JUMPER	75060501P0	CL71				
					CL74			JUMPER	75060501P0
					CL75		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020
					CL79		4822 124 41543	ELECT. 1µF M 50V RA-2	OA10505020
					CL80		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
					CL81		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020
					CL82		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020
					CL83		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020
					CL84		4822 125 50384	TRIM. 20pF VCT51E	CT12000200
					CL86		4822 124 22571	ELECT. 10µF M 50V RA-2	OA10605020
					CX84		4822 124 22277	ELECT. 470µF M 10V	OA47701620
					***			PL04-CAPACITORS (COMMON) HIGH DIELECTRIC CONSTANT CER. CAPACITOR ±10% 50V : CL51 CL76 CL77 (CL87 CL88 CL91 CL92 CL96 CL97(/N,/S))	
					***			PLASTIC FILM CAPACITOR ±5% 50V : CL78	
								PL04-RESISTORS 75Ω ±5% 1/6W	GD05750160
					RL01		4822 111 41355	75Ω ±5% 1/6W	GD05750160
					RL03		4822 111 41355	75Ω ±5% 1/6W	GD05750160
					RL05		4822 111 41355	75Ω ±5% 1/6W	GD05750160

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
RL07		4822 111 41355	75Ω ±5% 1/6W	GD05750160
RL09		4822 111 41355	75Ω ±5% 1/6W	GD05750160
▲RV51		4822 050 21021	100Ω ±5% 1/2W	GG05101120
R***			PL04-RESISTORS (COMMON) CARBON FILM FIXED RES. ±5% 1/6W : RL02 RL04 RL06 RL08 RL10-RL15 RL18-RL26 RL28-RL43 RV52 RV53	
			PL04-SEMICONDUCTORS	
DL07		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DV01		4822 130 82421	DIODE DIODE 1D3	HD20002710
DV02		4822 130 82421	DIODE DIODE 1D3	HD20002710
DV03		4822 130 82421	DIODE DIODE 1D3	HD20002710
DV51		4822 130 82421	DIODE 1D3	HD20002710
DV52		4822 130 82421	DIODE 1D3	HD20002710
DV53		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
QL01		9965 000 01371	IC MM1140XF	HC10083550
QL02		4822 209 32928	IC BA7612N VIDEO SELECTOR	HC10201210
QL03		9965 000 01372	IC BA7649A G-1 VIDEO SW	HC10179210
QL04		4822 209 31527	IC BA7613N	HC10202210
QL05		9965 000 01372	IC BA7649A G-1 VIDEO SW	HC10179210
QL06		4822 209 31527	IC BA7613N	HC10202210
QL07		4822 209 16846	IC NJU3718L	HC10171090
QL08		4822 209 32246	IC NJM2244	HC10119090
QL09		4822 209 15524	3IN SW 75Ω DRIVER IC OSD LC74781	HC10377030
QL10	/K,/N,/S	4822 130 61227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
QL11	/K,/N,/S	4822 130 61189	DIG.TRS. DTC114TS UN4215 10K	BA20004000
QL12	/K,/N,/S	4822 130 61189	DIG.TRS. DTC114TS UN4215 10K	BA20004000
QL14		4822 209 32246	IC NJM2244 3IN SW 75Ω DRIVER	HC10119090
QL15		4822 130 60588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000
QL16		4822 130 41947	TRS. 2SC2458 2SC1740S 2SC3199	HT30001000
QL17		4822 130 60588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000
QL18		5322 209 71773	IC 74HC132	HC713205D0
QL19		4822 130 60588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000
QV51		4822 130 61227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
QV52		4822 130 63634	TRS. 2SA1837 Q Y	HT118372A0
			PL04-MISCELLANEOUS	
JL01		4822 265 31299	TERMINAL 3P RCA YELLOW	YT02030340
JL02		4822 265 31299	TERMINAL 3P RCA YELLOW	YT02030340
JL03		4822 265 31299	TERMINAL 3P RCA YELLOW	YT02030340
JL04		4822 265 31045	TERMINAL YKC21-3081	YT02021080
JL05		4822 290 81598	TERMINAL 2P RCA GOLD	YT02021130
JL12		4822 265 31045	TERMINAL YKC21-3081	YT02021080
LL01		4822 157 62922	CHOKE COIL 33μH J	LC13333800
LL02		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
LL03			JUMPER	75060501P0
LL08				
LV01		4822 280 20501	RELAY MR62-24SR 24V	LY20240410
LV02		4822 280 20501	RELAY MR62-24SR 24V	LY20240410
LV03		4822 280 20501	RELAY MR62-24SR 24V	LY20240410
XL01	/K	4822 242 73903	CRYSTAL AT49 17.7MHz	JX17001260

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
XL01	/S	4822 242 73903	CRYSTAL AT49 17.7MHz	JX17001260
XL01	/N	4822 242 73903	CRYSTAL AT49 17.7MHz	JX17001260
XL02		4822 242 80288	CRYSTAL AT49 14.31818MHz	JX14001260
			PL74-AUX INPUT CIRCUIT BOARD PL74-CAPACITORS	
CL75	/N,/S	4822 126 11568	CER. 470pF CHIP	DK96471300
CL76	/N,/S	4822 126 11568	CER. 470pF CHIP	DK96471300
CL77	/N,/S	4822 122 33777	CER. 47PF CHIP	DD95470300
CL78	/N,/S	4822 122 33777	CER. 47PF CHIP	DD95470300
CL79				
CL82		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
CL83		4822 124 23112	ELECT. 10μF 16V	EQ10601630
CL84		4822 111 41305	0Ω ±5% 1/4W	GD05000140
CL88		4822 111 41305	0Ω ±5% 1/4W	GD05000140
CL89		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
CL90		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
CL91				
CL98		4822 111 41305	0Ω ±5% 1/4W	GD05000140
			PL74-RESISTORS	
RL75		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RL76		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RL77		4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610
RL78		4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610
RL79				
RL82		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RL83		4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610
RL84		4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610
RL85		4822 051 30759	CHIP 75Ω ±5% 1/16W	NN05750610
RL86		4822 051 30759	CHIP 75Ω ±5% 1/16W	NN05750610
RL88		4822 051 30759	CHIP 75Ω ±5% 1/16W	NN05750610
			PL74-SEMICONDUCTOR	
QL75		4822 209 71451	IC NJM4558M Y	HC10011090
			PL74-MISCELLANEOU	
JL75		9965 000 01347	TERMINAL RCA JACK 3P & S-TERMINAL AUX	BY04040030
			PM04-HDAM CIRCUIT BOARD PM04-CAPACITORS	
CM21		4822 124 90358	ELECT. 22μF M 16V	OA22601620
CM22		4822 124 90358	ELECT. 22μF M 16V	OA22601620
CM23		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
CM24		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
CM25		4822 126 14166	FILM 330pF 100V ECQ-P	OF15331540
CM26		4822 126 14166	FILM 330pF 100V ECQ-P	OF15331540
CM27		4822 121 70543	FILM 100pF 100V ECQ-P1101J	OF15101540
CM28		4822 121 70543	FILM 100pF 100V ECQ-P1101J	OF15101540
CM29		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
CM30		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
CM31		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620
CM32		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620
			PM04-RESISTORS (COMMON) CARBON FILM FIXED RES. ±5% 1/6W : RM21-RM24 RM27-RM40	
			PM04-SEMICONDUCTORS	
DM21		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DM22		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
QM21		4822 130 42949	TRS. 2SA970	HT109702A0	CS84		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
QM22		4822 130 42949	TRS. 2SA970	HT109702A0	CS85		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
QM23		4822 130 43233	TRS. 2SC2240	HT322402A0	CS86		4822 124 90354	ELECT. 100µF M 16V RA-2	OA10701620
QM24		4822 130 43233	TRS. 2SC2240	HT322402A0	CS87		4822 124 90354	ELECT. 100µF M 16V RA-2	OA10701620
QM25		4822 130 43283	TRS. 2SC2705 O Y	HT327052A0	CS88		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
QM26		4822 130 43283	TRS. 2SC2705 O Y	HT327052A0	CS89		4822 124 22274	ELECT. 4.7µF M 50V RA-2	OA47505020
QM27		4822 130 42999	TRS. 2SA1145 O Y	HT111452A0	CS90		4822 124 22274	ELECT. 4.7µF M 50V RA-2	OA47505020
QM28		4822 130 42999	TRS. 2SA1145 O Y	HT111452A0	CS93	/N,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300
QM29			UNIT & H-IC NEW HDAM	KH269J1010	CS94	/N,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300
QM30			UNIT & H-IC NEW HDAM	KH269J1010	CS97		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
					CS98		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310
					CS99		4822 122 40617	CER. 0.1µF 50V	DD38104010
			PS04-A-FUNC PRE SUPPLY CIRCUIT BOARD KIT PS04-CAPACITORS					PS04-CAPACITORS (COMMON) HIGH DIELECTRIC CONSTANT CER. CAPACITOR ±10% 50V : (CG07 CG08(/N,/S)) CQ06 CQ07 (CS37-CS54 CS71 CS72 CS91 CS92 CS95 CS96(/N,/S))	
CG01					***				
CG06		4822 124 22274	ELECT. 4.7µF M 50V RA-2	OA47505020					
CG09		4822 124 22277	ELECT. 470µF M 16V	OA47701620					
CQ01			JUMPER	75060501P0					
CQ02			JUMPER	75060501P0					
CQ03			JUMPER	75060501P0					
CQ08		4822 122 40617	CER. 0.1µF 50V	DD38104010	RG15		4822 115 90166	FUSE 10Ω ±2% 1/4W	NF02100140
CQ09	/N,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300	RG96			JUMPER	
CQ10	/N,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300	RG67			JUMPER	
					***			PS04-RESISTORS (COMMON) CARBON FILM FIXED RES. ±5% 1/6W : RG01-RG14 RG16-RG20 RQ25-RQ30 RS01-RS95 RS98 RS99	
CS01		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620					
CS14									
CS15		4822 124 22571	ELECT. 10µF M 16V RA-2	OA10605020					
CS16		4822 124 22571	ELECT. 10µF M 16V RA-2	OA10605020					
CS17		4822 124 90358	ELECT. 22µF M 16V RA-2	OA22601620					
CS18		4822 124 90358	ELECT. 22µF M 16V RA-2	OA22601620					
CS19					DG01		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
CS22		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310	DG02		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
CS23		4822 124 90354	ELECT. 100µF M 16V RA-2	OA10701620	DG03		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
CS24		4822 124 90354	ELECT. 100µF M 16V RA-2	OA10701620	DS01		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
CS25					DS02		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
CS28									
CS29		4822 124 22274	ELECT. 4.7µF M 50V RA-2	OA47505020					
CS30		4822 124 22274	ELECT. 4.7µF M 50V RA-2	OA47505020	QG01		9965 000 01359	IC ELE VOL TC9459N	HC10443050
CS31		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620	QG02		4822 209 83631	IC NJM4558D-D	HC10008090
CS32		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620	QG03		4822 130 63634	TRS. 2SA1837 Q Y	HT118372A0
CS33		4822 124 22274	ELECT. 4.7µF M 50V RA-2	OA47505020	QG04		4822 130 61227	DIG.TRS.	BA10001000
CS34		4822 124 22274	ELECT. 4.7µF M 50V RA-2	OA47505020				DTA114ES UN4111 10K 10K	
CS35		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620	QG05		4822 130 43818	TRS. 2SC2878 A OR BRANK	HT328782A0
CS36		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620	QG06		4822 130 43818	TRS. 2SC2878 A OR BRANK	HT328782A0
CS55	/N,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300	QG07		4822 130 61227	DIG.TRS.	BA10001000
CS56	/N,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300				DTA114ES UN4111 10K 10K	
CS57		4822 124 90354	ELECT. 100µF M 16V RA-2	OA10701620	QS01				
CS58		4822 124 90354	ELECT. 100µF M 16V RA-2	OA10701620					
CS59					QS11		4822 209 83631	IC NJM4558D-D	HC10008090
CS62		4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300	QS12		4822 209 32552	IC LC78211	HC10308030
CS63		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310	QS13		4822 209 32553	IC LC78212	HC10309030
CS64		4822 122 30043	CER. 0.01µF +80%-20% 50V	DK18103310	QS14		4822 209 32553	IC LC78212	HC10309030
CS65					QS15		4822 209 32552	IC LC78211	HC10308030
CS66					QS16		4822 130 61227	DIG.TRS.	BA10001000
CS70		4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300	QS17		4822 130 43818	TRS. 2SC2878 A OR BRANK	HT328782A0
CS73					QS18		4822 130 43818	TRS. 2SC2878 A OR BRANK	HT328782A0
CS75		4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300	QS19		4822 130 43818	TRS. 2SC2878 A OR BRANK	HT328782A0
CS79	/N,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300	QS20		4822 130 43818	TRS. 2SC2878 A OR BRANK	HT328782A0
CS80	/N,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300	QS21		4822 130 61227	DIG.TRS.	BA10001000
CS81			JUMPER	75060501P0	QS22		4822 130 61227	DIG.TRS.	BA10001000
CS82			JUMPER	75060501P0	QS23		4822 130 43818	TRS. 2SC2878 A OR BRANK	HT328782A0
CS83			JUMPER	75060501P0	QS24		4822 130 43818	TRS. 2SC2878 A OR BRANK	HT328782A0

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MUJ)
QS25		4822 209 83631	IC NJM4558D-D	HC10008090
QS26		4822 130 90347	PHOTO UNIT PC-817	HW10006320
			PHOTO CUPLER 1PAIR	
QS27		4822 130 61227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
			PS04-MISCELLANEOUS	
JS01		4822 265 10729	TERMINAL 8P RCA PIN	YT02080130
JS03		4822 290 61244	TERMINAL 6P RCA PIN	YT02060490
JS04		4822 290 61244	TERMINAL 6P RCA PIN	YT02060490
JS06		4822 290 61244	TERMINAL 6P RCA PIN	YT02060490
JS07			TERMINAL 4P RCA RC-5 MULT	YT02041260
LG01		4822 280 20501	RELAY MR62-24SR 24V	LY20240410
			PU04-FRONT FL DISPLAY SWITCH CIRCUIT BOARD	
			PU04-CAPACITORS	
CU01		4822 126 11558	CER. 0.1μF +80%-20% 50V	DA17104110
CU02		4822 126 11558	CER. 0.1μF +80%-20% 50V	DA17104110
CU03		4822 126 11558	CER. 0.1μF +80%-20% 50V	DA17104110
CU04		4822 124 21901	ELECT. 47μF 6.3V	EJ47600610
CU05				
CU08		4822 126 10364	CER. 100pF ±10%	DA16101110
CU09				
CU12		4822 126 11558	CER. 0.1μF +80%-20% 50V	DA17104110
CU13			CER. 1000pF ±10%	DK16102300
CU20		4822 124 21901	ELECT. 47μF 6.3V	EJ47600610
CU81		4822 122 40588	CER. 0.022μF TP050F223Z	DA17223110
CU82		4822 124 80087	ELECT. 220μF 6.3V	EJ22700610
			PU04-RESISTORS (COMMON)	
			CARBON FILM FIXED RES. ±5% 1/6W : RU01-RU09 RU15-RU19 RU21-RU29 RU31-RU48 RU51-RU63	
			PU04-SEMICONDUCTORS	
DU07		4822 130 11569	L.E.D. HLMF-K200 #2UL RED	HI10005340
DU16				
DU17		4822 130 11363	L.E.D. LT3K44B GREEN 30mA	HI10095320
DU18		4822 130 11569	L.E.D. HLMF-K200 #2UL RED	HI10005340
DU19		4822 130 11569	L.E.D. HLMF-K200 #2UL RED	HI10005340
DU20		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DU21		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
QU01		4822 209 90244	IC UPD16311GC-AB6 FTD DRIVER	HC10283060
QU02		4822 209 16846	IC NJU3718L	HC10171090
QU03				
QU06		4822 130 41947	TRS. 2SC2458 2SC1740S 2SC3199	HT30001000
QU07		4822 130 63211	DIG.TRS. DTA114TS UN4115 10K	BA10004000
QU81	/K,/N,/S	4822 209 16735	PHOTO UNIT PNA4655M00HB	HW10006020
QU81	/U	4822 209 16157	PHOTO UNIT PNA4655M00XB	HW10005020
			PU04-MISCELLANEOUS	
SU01		9965 000 00373	PUSH SWITCH EVQ11L05R	SP01013370
SU03		9965 000 00373	PUSH SWITCH EVQ11L05R	SP01013370
SU01				
SU17		9965 000 00373	PUSH SWITCH EVQ11L05R H 5MM 160GF	SP01013370
SU19		9965 000 00373	PUSH SWITCH EVQ11L05R	SP01013370
SU20		9965 000 00373	PUSH SWITCH EVQ11L05R	SP01013370

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MUJ)
SU21		9965 000 00373	PUSH SWITCH EVQ11L05R	SP01013370
SU23		9965 000 00373	PUSH SWITCH EVQ11L05R	SP01013370
SU24		9965 000 00373	PUSH SWITCH EVQ11L05R	SP01013370
SU27		9965 000 00373	PUSH SWITCH EVQ11L05R	SP01013370
SU28		9965 000 00373	PUSH SWITCH EVQ11L05R	SP01013370
SU32		9965 000 01348	ROTARY ENCODER MASTER	SR02010070
SU33		9965 000 01349	ROTARY ENCODER INP. SEL.	SR02010080
VU01		9965 000 01350	FL DISPLAY SVA-12MM20	HQ31201920
			PU74-STANDBY LED CIRCUIT BOARD	
CU71		4822 122 40617	CER. 0.1μF +80%-20% 50V DC RES. 680Ω ±5% 1/6W	DD38104010 GD05681160
RU71				
DU71		4822 130 11569	L.E.D. HLMF-K200 #2UL RED	HI10005340
			PU94-GYRO ENCODER CIRCUIT BOARD	
CU91		4822 122 40617	CER. 0.1μF +80%-20% 50V DC RES. 330Ω ±5% 1/6W RES. 10kΩ ±5% 1/6W RES. 10kΩ ±5% 1/6W	DD38104010 GD05331160 GD05103160 GD05103160
RU91				
RU92				
RU93				
QU91		4822 130 11143	PHOTO UNIT GP1A06 2PHASE PHOTO INTERRUPTER	HW10033320
			PW04-HEADPHONE CIRCUIT BOARD	
CW01		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
CW02		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
CW03		4822 122 40617	CER. 0.1μF +80%-20% 50V	DD38104010
CW04		4822 122 40617	CER. 0.1μF +80%-20% 50V	DD38104010
			PW54-HEADPHONE AMP CIRCUIT BOARD	
			PW54-CAPACITORS	
CW51		4822 124 41543	ELECT. 1μF M 50V RA-2	OA10505020
CW52		4822 124 41543	ELECT. 1μF M 50V RA-2	OA10505020
CW53		4822 124 22274	ELECT. 4.7μF M 50V RA-2	OA47505020
CW54		4822 124 22274	ELECT. 4.7μF M 50V RA-2	OA47505020
CW55				
CW58		4822 124 90364	ELECT. 220μF M 16V RA-2	OA22701620
CW59		4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620
CW60		4822 124 23112	ELECT. 10μF 16V	EQ10601630
			PW54-RESISTORS	
RW63		4822 116 60314	FUSIBLE 10Ω ±5% 1/4W	NH05100140
RW64		4822 116 60314	FUSIBLE 10Ω ±5% 1/4W	NH05100140
RW65		4822 050 21501	150Ω ±5% 1/4W	GG05151140
			PW54-RESISTORS (COMMON)	
			CARBON FILM FIXED RES. ±5% 1/6W : RW51-RE62 RW66 RW68 RW69	
			PW54-SEMICONDUCTORS	
DW51		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
DW52		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DW53		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
DW54		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
DW55		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
QW51		4822 209 82362	IC NJM-4556	HC10016090
QW52		4822 130 63634	TRS. 2SA1837 O Y	HT118372A0
QW53		4822 130 61227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
QW54		4822 130 61227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MUJ)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MUJ)
			PZ04-S-VIDEO SELECTOR CIRCUIT BOARD						
			PZ04-CAPACITORS						
CX01		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	CZ67		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
CX02		4822 122 31349	CER. 68pF ±5% 50V	DD15680300	CZ68		4822 124 41537	ELECT. 220μF M 6.3V RA-2	OA22700620
CX03	/K,/N,/S	5322 122 32143	CER. 22pF ±5% 50V	DD15220300	CZ69				
CX04		4822 124 22275	ELECT. 47μF M 10V RA-2	OA47601020	}		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
CX05		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	CZ77				
CX06		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020	CZ78		4822 124 41537	ELECT. 220μF M 6.3V RA-2	OA22700620
CX07		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	CZ79		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
CX08	/U	4822 126 10362	CER. 22pF ±5% 50V	DA15220110	CZ80		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
CX09		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	CZ81		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
CX10		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	CZ82		4822 124 41544	ELECT. 470μF M 6.3V RA-2	OA47700620
CX11		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	CZ83		4822 124 23112	ELECT. 10μF 16V	EQ10601630
CX12		4822 124 41537	ELECT. 220μF M 6.3V RA-2	OA22700620	CZ84		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
CX13		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	CZ85		4822 124 41544	ELECT. 470μF M 6.3V RA-2	OA47700620
CX14		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	CZ86		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
CX15		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	CZ87		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
CX16					CZ88		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
}		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	CZ89				
CX19					}		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
CX20		4822 124 41543	ELECT. 1μF M 50V RA-2	OA10505020	CZ92		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020
CX22		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	CZ93		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
CX23		4822 125 50384	TRIM. VCT51E 20pF	CT12000200	CZ94		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020
CX24		4822 124 41543	ELECT. 1μF M 50V RA-2	OA10505020	CZ95		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020
CX25		4822 124 41537	ELECT. 220μF M 6.3V RA-2	OA22700620	CZ97		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020
CX93					CZ98		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
}			JUMPER	75060501P0	***				
CX96								PV04-CAPACITORS (COMMON)	
CX97		4822 124 41543	ELECT. 1μF M 50V RA-2	OA10505020				HIGH DIELECTRIC CONSTANT	
CX98		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	***			CER. CAPACITOR ±10% 50V :	
CX99	/U	4822 126 10362	CER. 22PF	DA15220110				CX92 CZ48	
CZ01									
}		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	▲ RX11		4822 050 21801	PZ04-RESISTORS	
CZ05					RZ06			180Ω ±5% 1/4W	GG05181140
CZ06					}		4822 111 41355	75Ω ±5% 1/6W	GD05750160
}		4822 124 23112	ELECT. 10μF 16V	EQ10601630	RZ15				
CZ10					RZ22			JUMPER	75060501P0
CZ11					RZ23			JUMPER	75060501P0
}		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	RZ24		4822 111 41355	75Ω ±5% 1/6W	GD05750160
CZ25					}				
CZ26		4822 124 23112	ELECT. 10μF 16V	EQ10601630	RZ29				
CZ27					RZ36				
}		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	}				
CZ33					RZ41				75060501P0
CZ34		4822 124 41544	ELECT. 470μF M 6.3V RA-2	OA47700620					
CZ35								PY64-RESISTORS (COMMON)	
}		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020				CARBON FILM FIXED RES.	
CZ42								±5% 1/6W : RX01-RX10	
CZ43	/K,/N,/S	4822 126 10362	CER. 22PF ±5%	DA15220110				RX12-RX29 RZ01-RZ05	
CZ44	/U	4822 122 33792	CER. 10PF ±5%	DA15100120				RZ16-RZ20 RZ30-RZ32 RZ34	
CZ45	/K,/N,/S	4822 126 11553	CER. 15PF ±5%	DA15150120				RZ35 RZ42-RZ48 RZ50-RZ54	
CZ46		4822 126 11591	CER. 24pF ±5% CH 50V BLK	DD15240300				RZ56-RZ60 RZ67	
CZ47		4822 126 10362	CER. 22PF ±5%	DA15220110					
CZ49		4822 124 41543	ELECT. 1μF M 50V RA-2	OA10505020					
								PZ04-SEMICONDUCTORS	
CZ50		4822 122 40617	CER. 0.1μF +80%-20% 50V	DD38104010	DX01		4822 130 80321	ZENER DIODE 10V	HD31001000
CZ51		4822 124 41537	ELECT. 220μF M 6.3V RA-2	OA22700620				RD10ESB2 MTZJ10C 04AZ10-Y	
CZ52		4822 124 41543	ELECT. 1μF M 50V RA-2	OA10505020	DZ01		4822 130 32362	DIODE 1SS176 MA165 1SS254	HD20002000
CZ53								30V 0.1A	
CZ54					DZ02		4822 130 32362	DIODE 1SS176 MA165 1SS254	HD20002000
CZ55								30V 0.1A	
}		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	DZ03		4822 130 32362	DIODE 1SS176 MA165 1SS254	HD20002000
CZ60								30V 0.1A	
CZ61		4822 124 41544	ELECT. 470μF M 6.3V RA-2	OA47700620	DZ05		4822 130 32362	DIODE 1SS176 MA165 1SS254	HD20002000
CZ62		4822 124 41544	ELECT. 470μF M 6.3V RA-2	OA47700620				30V 0.1A	
CZ63		4822 124 41544	ELECT. 470μF M 6.3V RA-2	OA47700620	DZ19		9965 000 01374	ZENER DIODE 2.7V MTZ2.7B	HD30271000
CZ65		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
CZ66		4822 124 41537	ELECT. 220μF M 6.3V RA-2	OA22700620	QX01		4822 130 41947	TRS. 2SC536SP ETC	HT30001000
					}				

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
QX04				
QX05	/K,/N,/S	4822 130 63211	DIG.TRS. DTA114TS UN4115 10K	BA10004000
QX07		4822 130 60588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000
QZ01		9965 000 01371	IC MM1140XF	HC10083550
QZ02		4822 209 32928	IC BA7612N VIDEO SELECTOR	HC10201210
QZ03		9965 000 01371	IC MM1140XF	HC10083550
QZ04		4822 209 32928	IC BA7612N	HC10201210
QZ05		9965 000 01372	IC BA7649A G-1 VIDEO SW	HC10179210
QZ06		4822 209 31527	IC BA7613N	HC10202210
QZ07		9965 000 01372	IC BA7649A G-1 VIDEO SW	HC10179210
QZ08		4822 209 32928	IC BA7612N	HC10201210
QZ09		4822 209 32246	IC NJM2244 3IN SW 75 DRIVER	HC10119090
QZ10		9965 000 01379	IC NJM2263D	HC10198090
QZ11		4822 209 15524	IC OSD LC74781	HC10377030
QZ12	/K,/N,/S	4822 130 61227	DIG.TRS. DTA114ES ETC	BA10001000
QZ13	/K,/N,/S	4822 130 61189	DIG.TRS. DTC114TS UN4215 10K	BA20004000
QZ14	/K,/N,/S	4822 130 61189	DIG.TRS. DTC114TS UN4215 10K	BA20004000
QZ16		4822 209 31527	IC BA7613N	HC10202210
QZ17		4822 209 31527	IC BA7613N VIDEO SELECTOR	HC10202210
QZ18		4822 209 31527	IC BA7613N VIDEO SELECTOR	HC10202210
QZ19		4822 209 32246	IC NJM2244 3IN SW 75 DRIVER	HC10119090
QZ20		9965 000 01379	IC NJM2263D	HC10198090
QZ21		4822 130 60588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000
QZ22		9965 000 01379	IC 74HC4051 C-MOS	HC705100B0
QZ23		4822 209 83088	IC NJM2903D DUAL COMPARATOR	HC10022090
QZ24		4822 130 61227	DIG.TRS. DTA114ES ETC	BA10001000
QZ25		4822 130 61227	DIG.TRS. DTA114ES ETC	BA10001000
QZ26		4822 130 41947	TRS. 2SC2458 2SC1740S 2SC3199	HT30001000
QZ27		4822 130 60588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000
QZ28		9965 000 01381	IC 74HC32A QUAD 2-INPUT OR GATE	HC703200B0
QZ29		5322 209 71773	IC 74HC132	HC713205D0
			PZ04-MISCELLANEOUS	
JZ01		9965 000 01375	TERMINAL 3P S-TERM GOLD	YT02030550
JZ02		9965 000 01376	TERMINAL 2P S-TERM GOLD	YT02021520
JZ03		9965 000 01375	TERMINAL 3P S-TERM GOLD	YT02030550
JZ04		9965 000 01377	TERMINAL 6P RCA COMP VIDEO GOLD G B R	YT02060640
JZ05		9965 000 01378	TERMINAL 3P RCA COMP VIDEO GOLD G B R	YT02030540
LX01		4822 157 62909	CHOKE COIL 22µH	LC12233800
LZ01		4822 157 62922	CHOKE COIL 33µH J	LC13333800
LZ02		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
LZ03		4822 242 73843	EMI FILTER DSS306-91-F-233Z	FM12223010
XZ01	/K,/N,/S	4822 242 73903	CRYSTAL AT49 17.7MHZ	JX17001260
XZ02		4822 242 80288	CRYSTAL AT49 14.31818MHZ	JX14001260