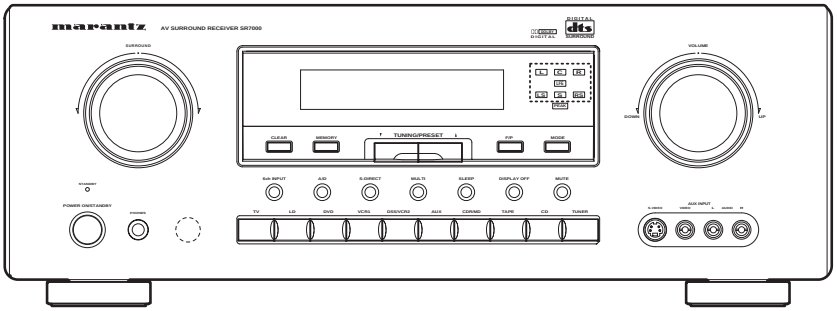
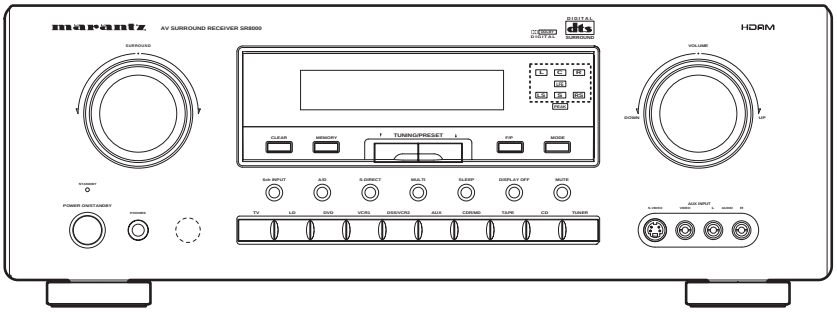
Service Manual

SR7000 /K1G, /N1G, /U1G
/K1B, /N1B, /U1B
SR8000 /K1G, /S1G, /U1B
AV Surround Receiver

SR7000



SR8000



SR7000/SR8000

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

marantz®

SR7000 / SR8000

320J855010 MIT
3120 785 22280
First Issue 2000.02

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

MARANTZ EUROPE B.V.
P.O.BOX 80002, BUILDING SFF2
5600 JB EINDHOVEN
THE NETHERLANDS
PHONE : +31 - 40 - 2732241
FAX : +31 - 40 - 2735578

BRAZIL

PHILIP DA AMAZONIA IND. ELET. ITDA
CENTRO DE INFORMACOES AO
CEP 04698-970
SAO PAULO, SP, BRAZIL
PHONE : 0800 - 123123(Discagem Direta Gratuita)
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
FAX : 630 - 820 - 8103

PROFESSIONAL **AUSTRALIA**

TECHNICAL AUDIO GROUP PTY, LTD
558 DARLING STREET,
BALMAIN, NSW 2041,
AUSTRALIA
PHONE : 61 - 2 - 9810 - 5300
FAX : 61 - 2 - 9810 - 5355

CANADA

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

AUSTRALIA

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

THAILAND

MRZ STANDARD CO.,LTD
746 - 754 MAHACHAI ROAD.,
WANGBURAPAPIROM, PHRANAKORN,
BANGKOK, 10200 THAILAND
PHONE : +66 - 2 - 222 9181
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

NEW ZEALAND

WILDASH AUDIO SYSTEMS NZ
14 MALVERN ROAD MT ALBERT
AUCKLAND NEW ZEALAND
PHONE : +64 - 9 - 8451958
FAX : +64 - 9 - 8463554

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.
SUITE 8.1, LEVEL 8, MENARA GENESIS,
NO. 33, JALAN SULTAN ISMAIL,
50250 KUALA LUMPUR, MALAYSIA
PHONE : +60 3 - 2457677
FAX : +60 3 - 2458180

JAPAN *Technical*

MARANTZ JAPAN, INC.
35- 1, 7- CHOME, SAGAMIONO
SAGAMIHARA - SHI, KANAGAWA
JAPAN 228-8505
PHONE : +81 42 748 1013
FAX : +81 42 741 9190

日本マランツ株式会社

本 社 〒228-8505
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 µV/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 ..... ±400 kHz 60 dB (U version)
±300 kHz 60 dB (K, N, S version)
Image Rejection ..... 98 MHz 70dB
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 ..... AM : 520 - 1710 kHz (U version)
AM : 531 - 1602 or 520 - 1710 kHz (K version)
AM : 531 - 1602 kHz (S version)
LW : 152-282 kHz / MW : 531 - 1602 kHz (N version)
Signal to Noise Ratio ..... 50 dB
Usable Sensitivity ..... Loop 400 µV
Distortion ..... 400 Hz, 30% Mod. 0.5%
Selectivity ..... ±20 kHz 70 dB (U version)
±18 kHz 70 dB (K, N, S version)

AUDIO SECTION

Rated Power (SR7000)
Stereo Mode FRONT (20 Hz - 20 kHz) ..... 8 ohms 100W / Ch (2ch driven)
Center (40 Hz - 20 kHz) ..... 8 ohms 100W / Ch
Surround ..... 8 ohms 100W / Ch
Rated Power (SR8000)
Stereo Mode FRONT (20 Hz - 20 kHz) ..... 8 ohms 105W / Ch (2ch driven)
Center (40 Hz - 20 kHz) ..... 8 ohms 105W / Ch
Surround ..... 8 ohms 105W / Ch
THD Front (20 Hz - 20 kHz) ..... 8 ohms 0.05%
Input Sensitivity/Impedance
Linear ..... 350mV/47 kohms
Signal to Noise Rate (IHF A)
Linear ..... 105 dB
Dolby Surround Adjacent Channels Separation ..... 55 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 360W
Dimension (MAX)
Width ..... 17-1/4 inches (440 mm)
Width (SR8000 U only) ..... 18 inches (458 mm)
Height ..... 6-1/4 inches (159 mm)
Depth ..... 18-1/8 inches (460 mm)
Weight (SR7000) ..... 33.1 lds. (14.5 kg)
Weight (SR8000) ..... 32.0 lds. (15 kg)

ACCESSORIES

Remote Control Unit RC7000SR (SR7000) 1
Remote Control Unit RC-18SR (SR8000) 1

Dolby Digital(AC-3) SECTION

Output Level (Master Volume is set 0dB)
Front L/R, CENTER, SURROUND L/R
1 KHz, 0 dB FS INPUT 1.1V
SUBWOOFER
40 Hz, 0 dB FS INPUT 3.8V

Frequency Response
Front L/R, CENTER, SURROUND L/R (LARGE)
20 Hz - 20 KHz ..... -1dB

Total Harmonic Distortion
Front L/R, CENTER, SURROUND L/R (1 KHz) ..... 0.01% or less
SUBWOOFER (40 Hz) ..... 0.07% or less
Signal to Noise Ratio (IHF-A) ..... 96 dB
Channel Separation (1 KHz) ..... 70 dB

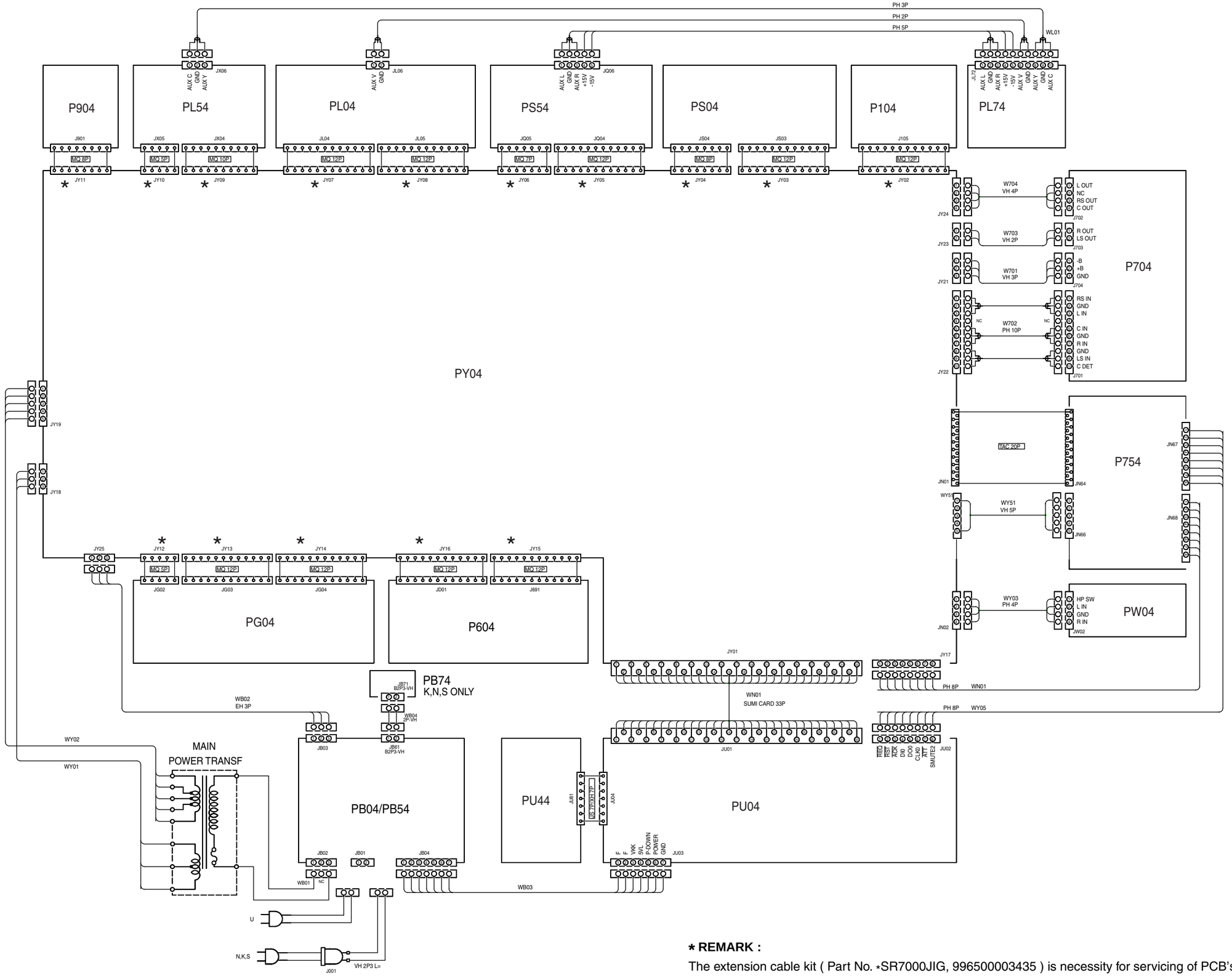
Specifications subject to change without prior notice.

Remark : Bass signal output from Sub Woofer terminal for SR7000/SR8000

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

SPK setup				SubWoofer Output				
Sub Woofer	***Front***	***Center***	***Rear***	***Dolby Digital DTS***	***Dolby (Pro Logic)***	***Hall , Matrix Movie, 5Stereo***	***Stereo***	***Source* Direct**
Yes	Large	Large	Large	LFE	none	L+R	L+R	LFE
			Small	LFE+LS+RS	none	L+R	L+R	LFE
			None	LFE	none	L+R	L+R	LFE
		Small	Large	LFE+C	C	L+R	L+R	LFE
			Small	LFE+C+LS+RS	C	L+R	L+R	LFE
			None	LFE+C	none	L+R	L+R	LFE
		None	Large	LFE	none	L+R	L+R	LFE
			Small	LFE+LS+RS	none	L+R	L+R	LFE
			None	LFE	none	L+R	L+R	LFE
	Small	Large	Large	LFE+L+R	L+R	L+R	L+R	LFE
			Small	LFE+L+R+LS+RS	L+R	L+R	L+R	LFE
			None	LFE+L+R	L+R	L+R	L+R	LFE
		Small	Large	LFE+L+R+C	L+R+C	L+R	L+R	LFE
			Small	LFE+L+R+C+LS+RS	L+R+C	L+R	L+R	LFE
			None	LFE+L+R+C	L+R+C	L+R	L+R	LFE
		None	Large	LFE+L+R	L+R	L+R	L+R	LFE
			Small	LFE+LS+RS	L+R	L+R	L+R	LFE
			None	LFE+L+R	L+R	L+R	L+R	LFE
None	Large	Large	Large	none	none	none	none	LFE
			Small	none	none	none	none	LFE
			None	none	none	none	none	LFE
		Small	Large	none	none	none	none	LFE
			Small	none	none	none	none	LFE
			None	none	none	none	none	LFE
		None	Large	none	none	none	none	LFE
			Small	none	none	none	none	LFE
			None	none	none	none	none	LFE
	Small	Large	Large	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
			Small	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
			None	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
		Small	Large	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
			Small	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
			None	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
		None	Large	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
			Small	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
			None	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited

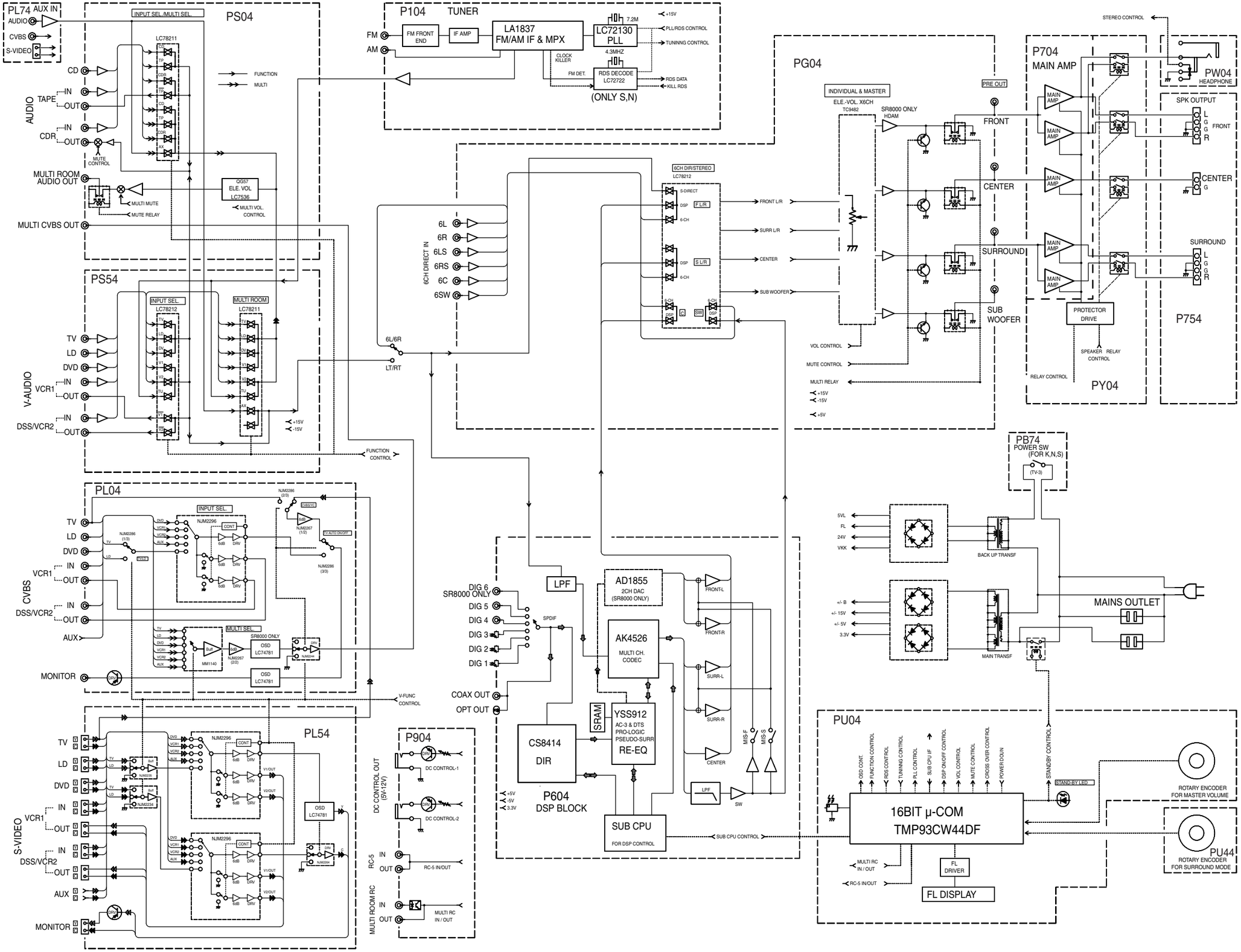
2. WIRING DIAGRAM



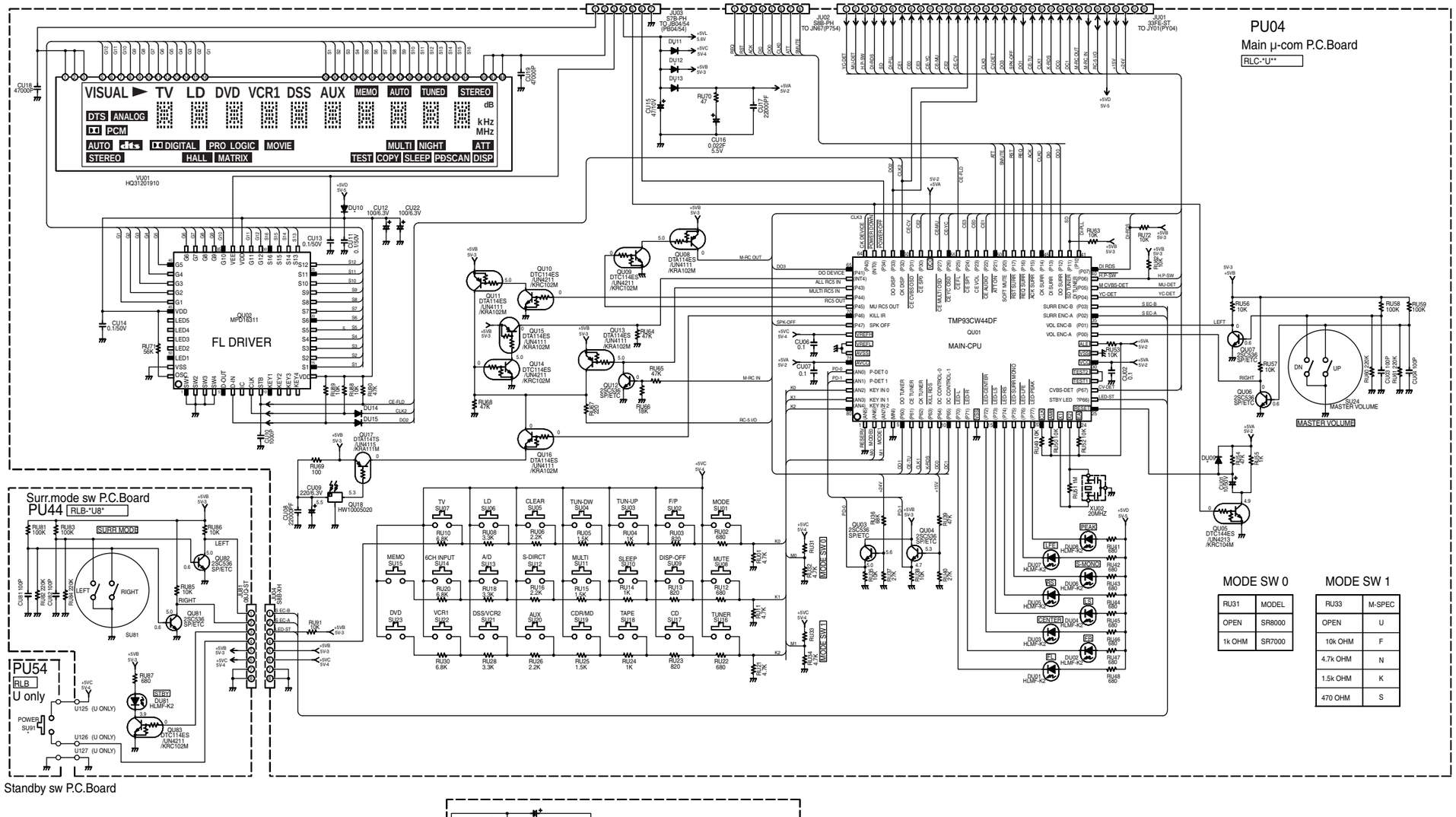
*** REMARK :**

The extension cable kit (Part No. *SR7000JIG, 996500003435) is necessity for servicing of PCB's.
(P904, PL54, PL04, PS54, PS04, P104, PG04, P604)

3. BLOCK DIAGRAM



4. SCHEMATIC DIAGRAM



MODE SW 0	
RU31	MODEL
OPEN	SR8000
1k OHM	SR7000

MODE SW 1	
RU33	M-SPEC
OPEN	U
10k OHM	F
4.7k OHM	N
1.5k OHM	K
470 OHM	S

P104

Tuner P.C.Board

RTU-*A,1,2,3,5**

PLL-BLOCK

FM AM IF/MPX

AM(LW)BLOCK SR7000,N,(LW) ONLY

RDS BLOCK S,N ONLY (RTR)

PRE AMP K,N,S ONLY

U ONLY

TUNING VOLTAGE (OTHER)-A101 5pin

FM	87.5MHz	108MHz
	2.1V	7.2V
AM	520/531kHz	1710/1602kHz
	1.1V	7.6V

TUNING VOLTAGE (F)-A101 5pin

FM	76.0MHz	90MHz
	1.7	4.0V
AM	531kHz	1602kHz
	1.1V	6.9V

DE-EMPHASIS /SCAN STEP SW. K ONLY

50µs 9kHz

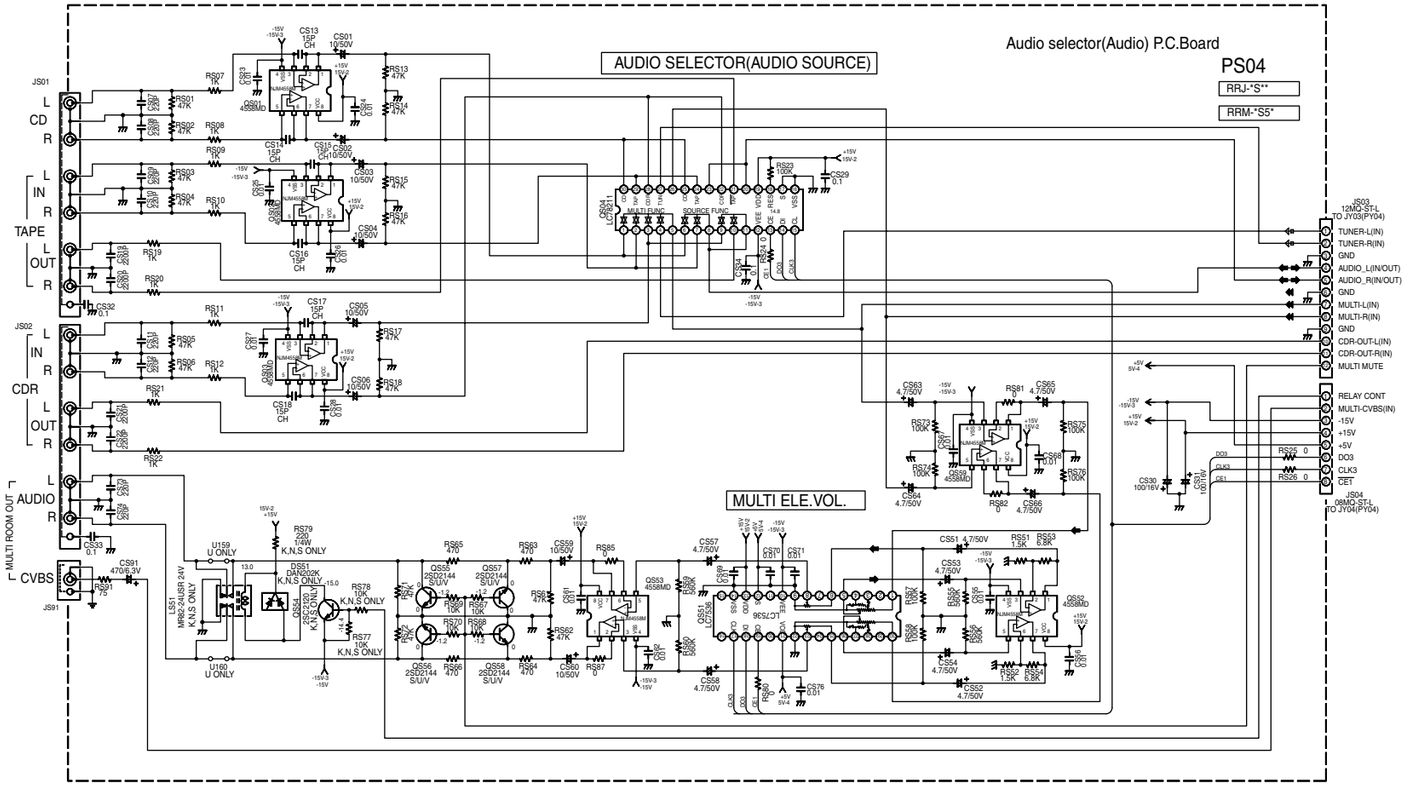
75µs 10kHz

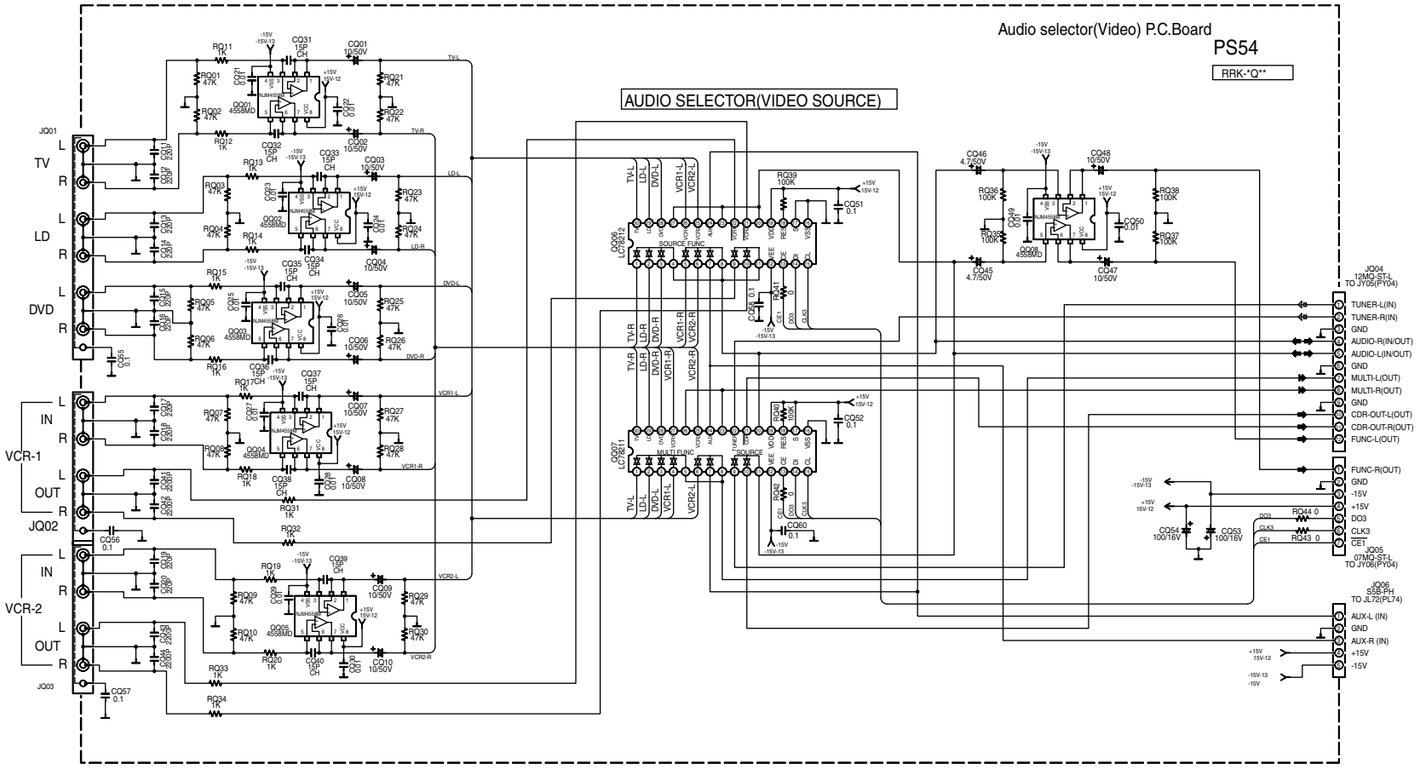
S301

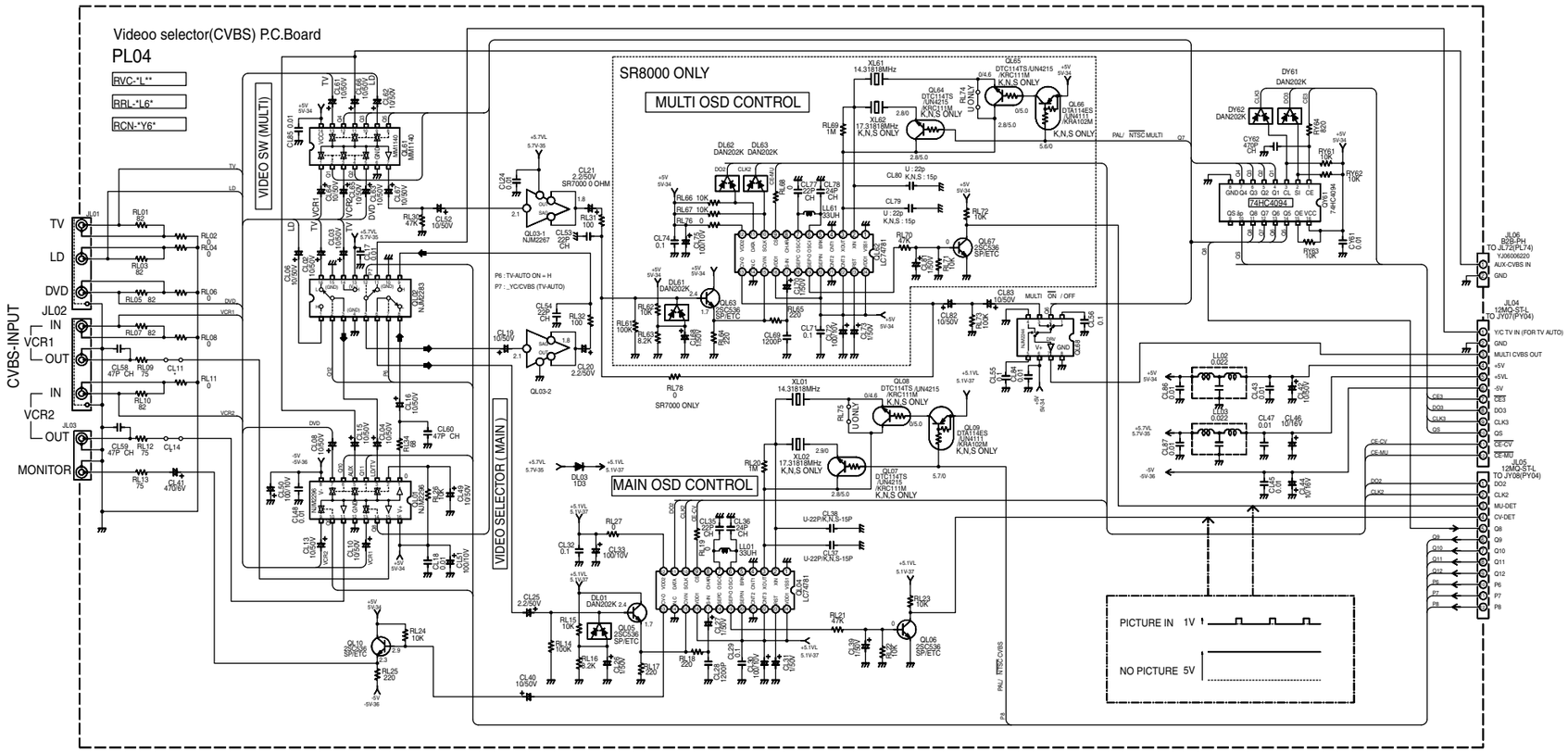
	C227	C217	R215	C301/302
U	2200P	0.027U	27K	0.047U
K,N,S	—	0.015U	68K	0.033U
F	—	0.027U	27K	0.033U

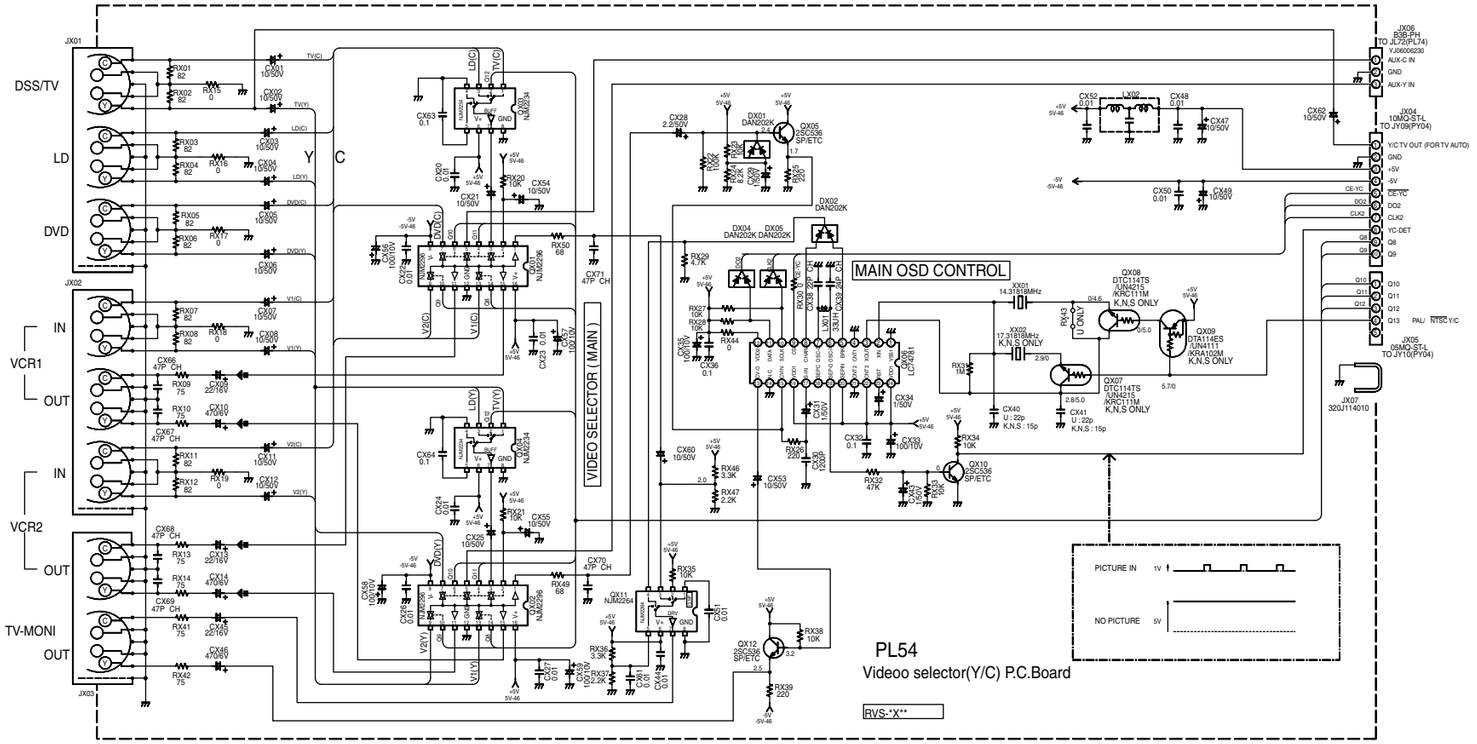
VOLTAGE BY MODE
* :FM
(*):AM(MW)
[*]:AM(LW)

J105 12MO-ST-L TO JY02(PY04)
+15VT
-15VT
+5VT
OSC-KILL
TU-DO
TU-CLK
RDS-DI
TU-CE
TU-DI
TU-SD
TUNER-L
TUNER-R

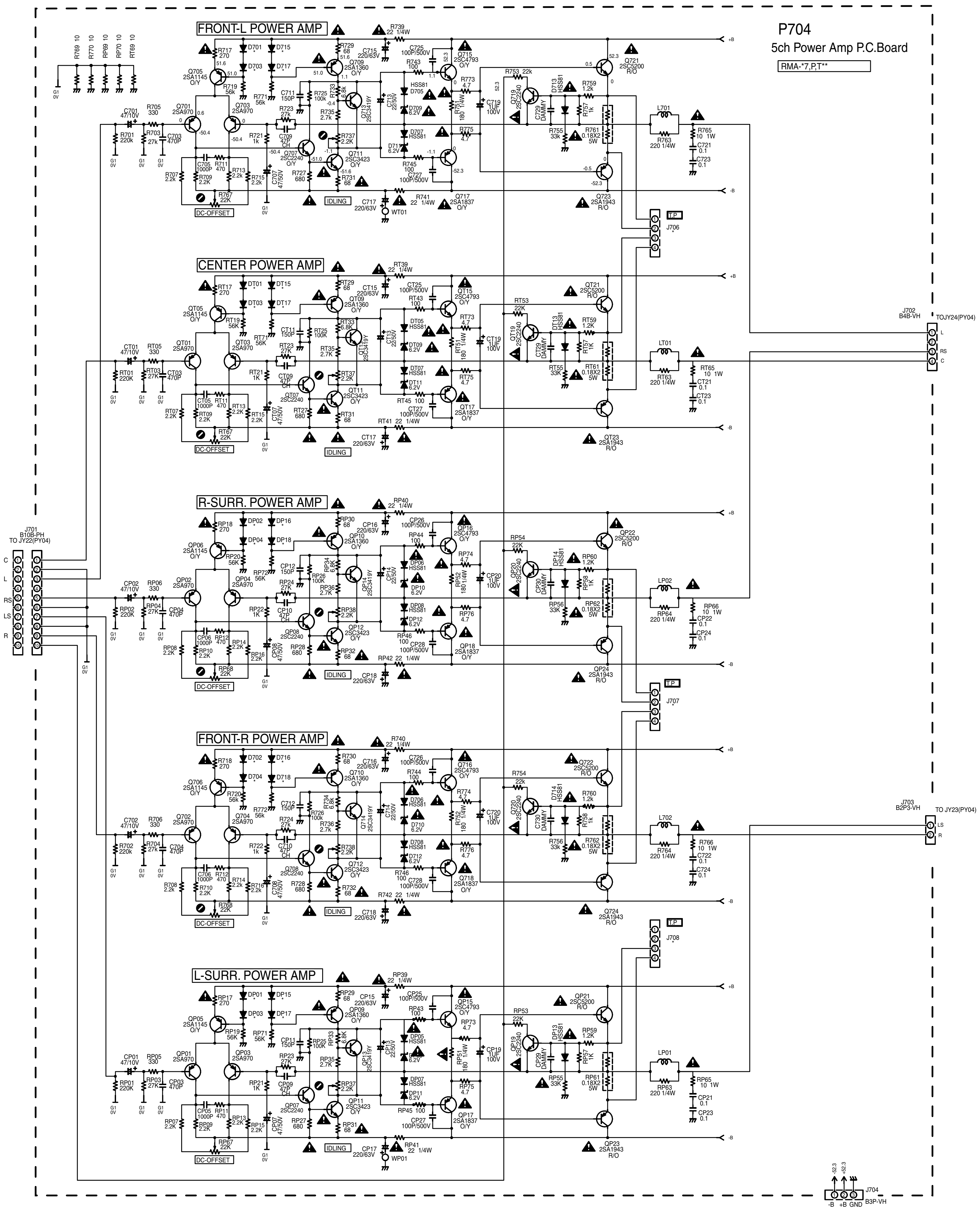

Audio selector(Audio) P.C.Board
PS04
RRJ-*S**
RRM-*S5*
AUDIO SELECTOR(AUDIO SOURCE)
MULTI ELE.VOL.
JS01
CD
TAPE
OUT
JS02
CDR
MULTI ROOM OUT
AUDIO
CVBS
JS91
JS03
12MQ-ST-L
TO JY03(PY04)
TUNER-L(IN)
TUNER-R(IN)
GND
AUDIO_L(IN/OUT)
AUDIO_R(IN/OUT)
GND
MULTI-L(IN)
MULTI-R(IN)
GND
CDR-OUT-L(IN)
CDR-OUT-R(IN)
MULTI MUTE
RELAY CONT
MULTI-CVBS(IN)
-15V
+15V
+5V
DO3
CLK3
CE1
JS04
08MQ-ST-L
TO JY04(PY04)


Audio selector(Video) P.C.Board
PS54
RRK-*Q**
AUDIO SELECTOR(VIDEO SOURCE)
JQ01
TV
LD
DVD
JQ02
VCR-1
JQ03
VCR-2
JQ04
12MQ-ST-L
TO JY05(PY04)
TUNER-L(IN)
TUNER-R(IN)
GND
AUDIO-R(IN/OUT)
AUDIO-L(IN/OUT)
GND
MULTI-L(OUT)
MULTI-R(OUT)
GND
CDR-OUT-L(OUT)
CDR-OUT-R(OUT)
FUNC-L(OUT)
FUNC-R(OUT)
GND
-15V
+15V
DO3
CLK3
CE1
JQ05
07MQ-ST-L
TO JY06(PY04)
JQ06
03MP-P4
TO JL72(PL74)
AUX-L (IN)
GND
AUX-R (IN)
+15V
-15V





FUNC.	MAIN ROOM VIDEO SELECT						MULTI ROOM SELECT				
	Q12	Q11	Q10	Q9	Q8	P6	Q5	Q4	Q3	Q2	Q1
CD	*	*	*	L	L	*	*	*	*	*	*
TV	L	H	H	H	H	*	L	L	H	H	*
LD	H	H	H	H	H	*	L	H	*	*	*
DVD	*	*	L	H	H	*	L	L	*	L	H
VCR1	*	*	*	H	L	*	L	L	*	L	L
DSS	*	*	L	L	H	*	L	L	*	L	H
AUX	*	L	H	H	H	*	L	L	L	H	*


P704
5ch Power Amp P.C.Board
RMA-*7,P,T**
FRONT-L POWER AMP
CENTER POWER AMP
R-SURR. POWER AMP
FRONT-R POWER AMP
L-SURR. POWER AMP
DC-OFFSET
IDLING
J701
B10B-PH
TO JY22(PY04)
J702
B4B-VH
TOJY24(PY04)
J703
B2P3-VH
TO JY23(PY04)
J704
B3P-VH
TO JY21(PY04)
-B +B GND

PG04

6ch/Preout P.C.Board

SR8000

6CH DIRECT IN

FRONT-L

FRONT-R

SURR-L

SURR-R

CENTER

SUB WOOFER

RCR-XCXX

2CH/DSP/6CH SELECTOR

6CH ELE VOL

RVR-XGXX

RHD-XMXX

QM59

QM60

PM04 HDAM

PRE-OUT

JG01

FRONT-L

FRONT-R

SURR-L

SURR-R

CENTER

SUB WOOFER

Gain=10.59dB(3.39)

PG04

6ch/Preout P.C.Board

SR7000

6CH DIRECT IN

FRONT-L

FRONT-R

SURR-L

SURR-R

CENTER

SUB WOOFER

RCR-XCXX

2CH/DSP/6CH SELECTOR

6CH ELE VOL

RVR-XGXX

PRE-OUT

FRONT-L

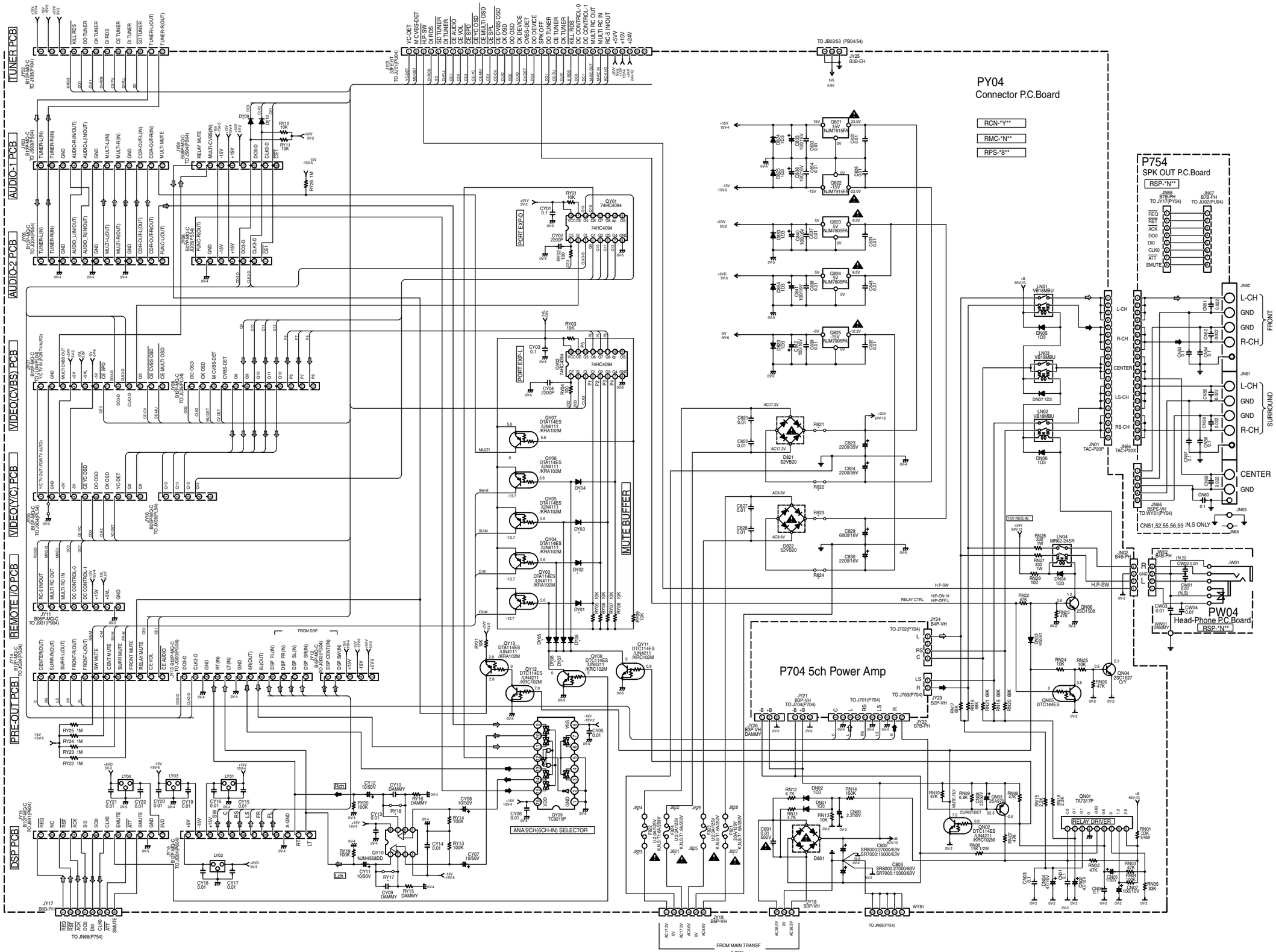
FRONT-R

SURR-L

SURR-R

CENTER

SUB WOOFER


TUNER PCB
AUDIO-1 PCB
AUDIO-2 PCB
VIDEO(CVBS) PCB
REMOTE I/O PCB
PRE-OUT PCB
DSP PCB
PY04
Connector P.C.Board
RCN-*Y**
RMC-*N**
RPS-*8**
P704 5ch Power Amp
P754
SPK OUT P.C.Board
RSP-*N**
PW04
Head-Phone P.C.Board
RSP-*N**
MUTE BUFFER
ANA/2CH(6CH-IN) SELECTOR
RELAY DRIVER
FRONT
SURROUND
CENTER
TO JB03/53 (PB04/54)
FROM MAIN TRANSF
[L001]
CN51,52,55,56,59 :N.S ONLY

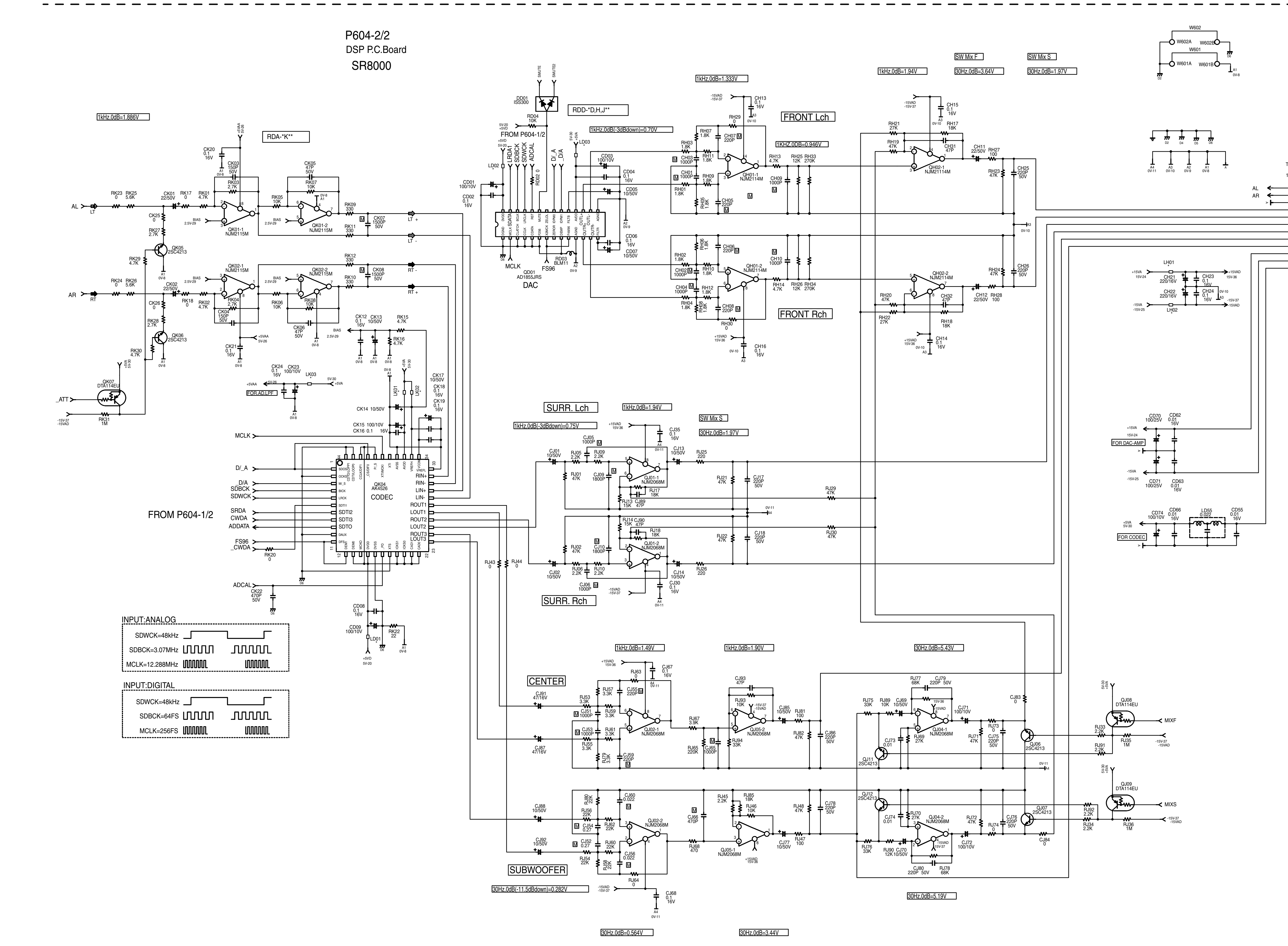
P604-1/2
DSP P.C.Board

		ISEL1	ISEL2	ISEL3
*	D0	L	L	L
DIG1	D1	H	L	L
DIG2	D2	L	H	L
DIG3	D3	H	H	L
DIG4	D4	L	L	H
DIG5	D5	H	L	H
DIG6	D6	L	H	H

Q691				
	20PIN	21PIN	31PIN	32PIN
INPUT	FS96	BYPASS	D/_A	D/A
PCM	L	L	H	L
AC-3/DTS	L	L	H	L
96K-PCM	H	H	H	L
ANALOG	L	L	L	H

INPUT:ANALOG
SDWCK=48kHz
SDBCK=3.07MHz
AMCLK=12.288MHz

INPUT:DIGITAL
SDWCK=48K
SDBCK=64FS
MCLK=256FS


P604-2/2
DSP P.C.Board
SR8000
RDA-*K**
RDD-*D,H,J**
FROM P604-1/2
DAC
QD01 AD1855JRS
FRONT Lch
FRONT Rch
SURR. Lch
SURR. Rch
CENTER
SUBWOOFER
SW Mix F
SW Mix S
CODEC
QK04 AK4526
FROM P604-1/2
INPUT:ANALOG
SDWCK=48kHz
SDBCK=3.07MHz
MCLK=12.288MHz
INPUT:DIGITAL
SDWCK=48kHz
SDBCK=64FS
MCLK=256FS
TO JY16(PY04)
JD01 12MQ-ST-L
AL IN
AR IN
ANA GND
FL OUT
FR OUT
SL OUT
SR OUT
CENT OUT
SW OUT
+15V
-15V
+5VD
FOR AD,LPF
FOR DAC-AMP
FOR CODEC
MIXF
MIXS
1kHz,0dB=1.886V
1kHz,0dB=1.333V
1kHz,0dB(-3dBdown)=0.70V
1KHZ,0DB=0.946V
1kHz,0dB=1.94V
30Hz,0dB=3.64V
30Hz,0dB=1.97V
1kHz,0dB(-3dBdown)=0.75V
1kHz,0dB=1.49V
1kHz,0dB=1.90V
30Hz,0dB=5.43V
30Hz,0dB(-11.5dBdown)=0.282V
30Hz,0dB=5.19V
30Hz,0dB=0.564V
30Hz,0dB=3.44V

P604-2/2
DSP P.C.Board
SR7000

1kHz,0dB=1.886V
NOIZE(20KHZ) =2.16UV
Noize(A-Weig)=1.80uV
THD=0.0005%

RDA-*K**

FROM JD01 AL
FROM JD01 AR
_ATT
FROM P604-1/2
MCLK
D/_A
D/A
SDBCK
SDWCK
LRDA1
SRDA
CWDA
ADDATA
FS96
ADCAL

QK04 AK4526 CODEC

INPUT:ANALOG
SDWCK=48kHz
SDBCK=3.07MHz
MCLK=12.288MHz

INPUT:DIGITAL
SDWCK=48kHz
SDBCK=64FS
MCLK=256FS

RDD-*D,H,J**
1kHz,0dB=1.94V
SW Mix F
30Hz,0dB=3.27V
SW Mix S
30Hz,0dB=1.78V

FRONT Lch
FRONT Rch
SURR. Lch
SURR. Rch
CENTER
SUBWOOFER

1kHz,0dB=0.75V
1kHz,0dB=1.94V
1kHz,0dB=1.88V
30Hz,0dB(-11.5dBdown)=0.282V
30Hz,0dB=4.89V
30Hz,0dB=4.68V
30Hz,0dB=3.10V
30Hz,0dB=0.282V
Noize(20kHz) =2.16UV

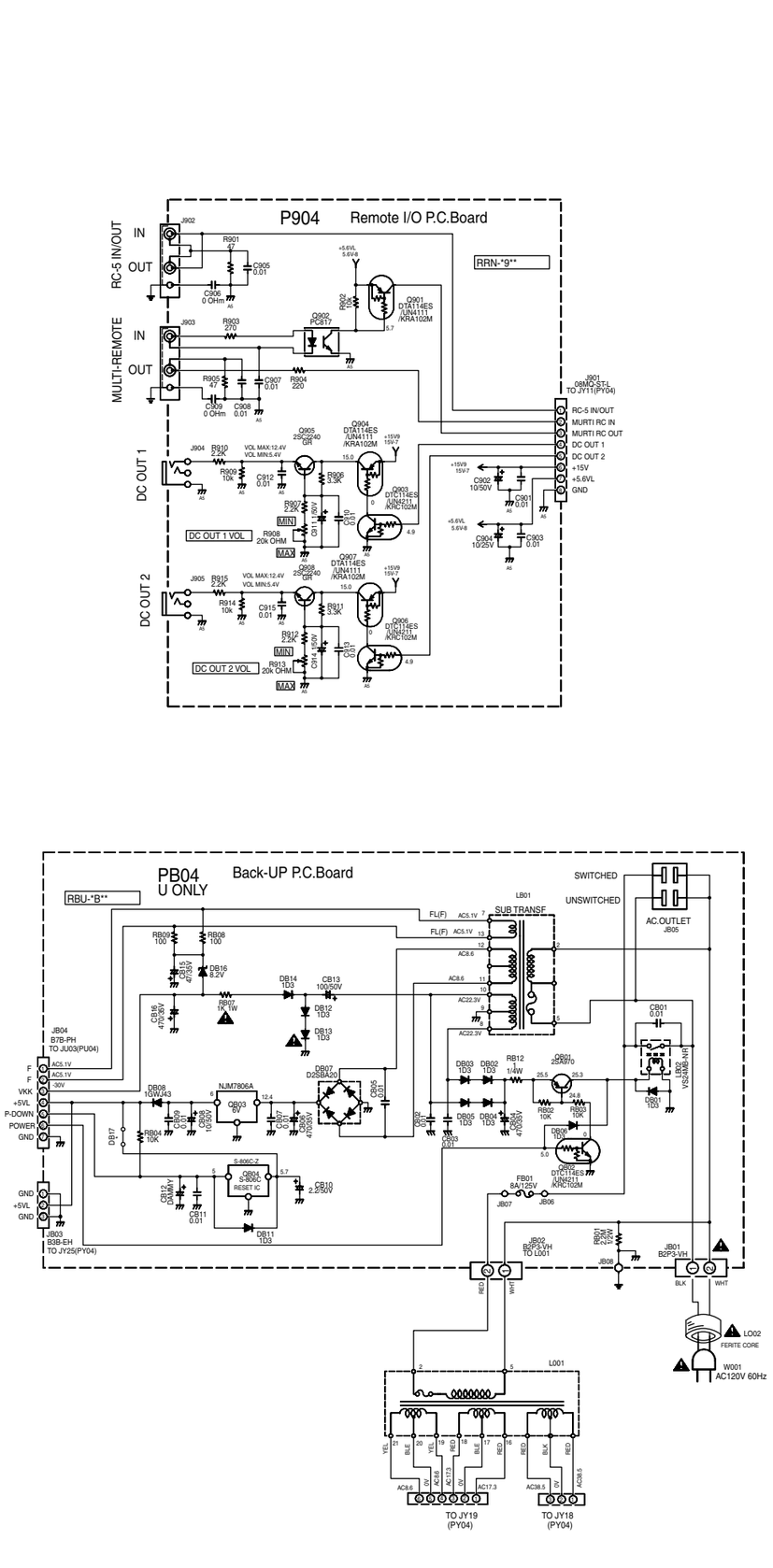
W601 W601A W601B

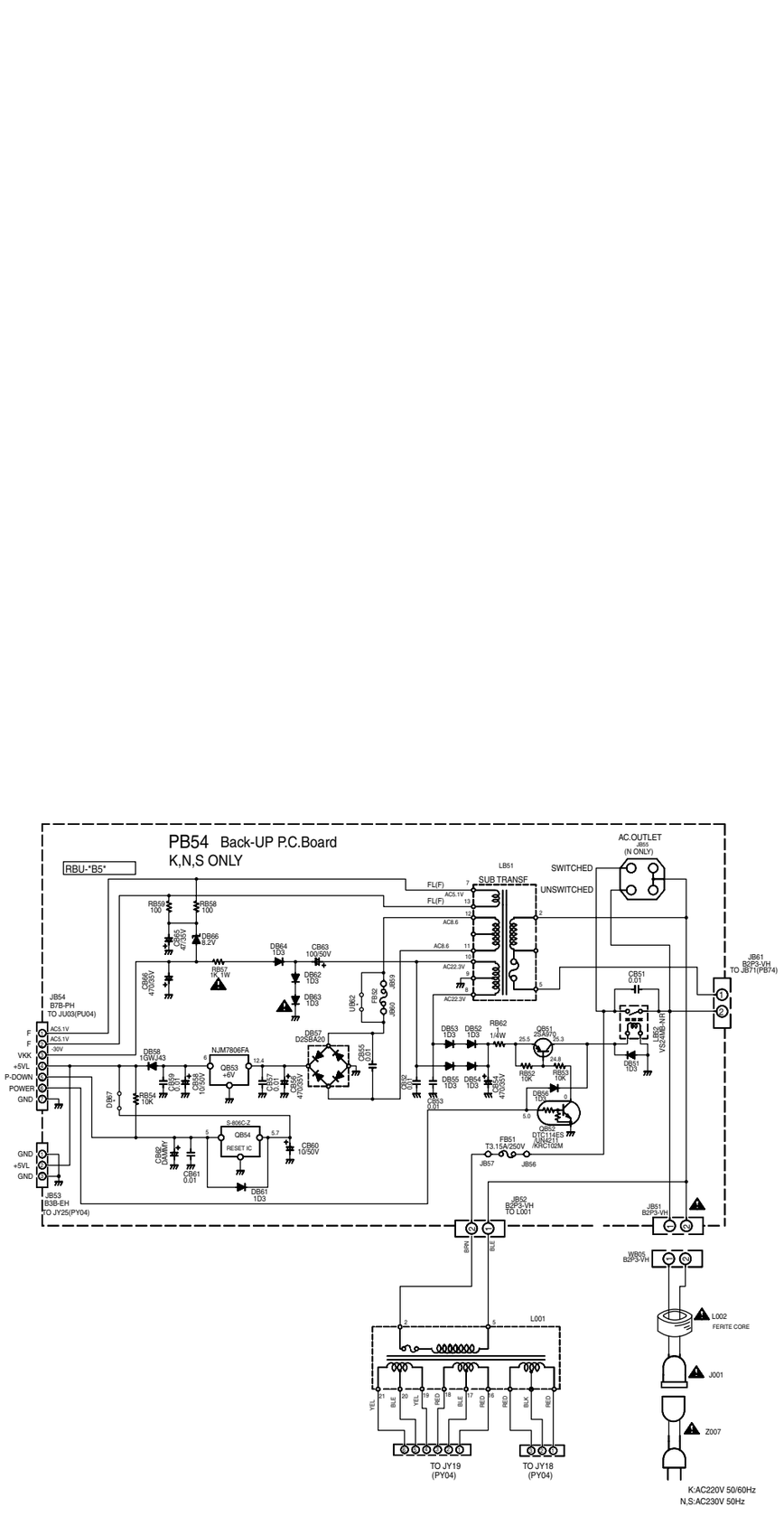
TO JY16(PY04)
JD01
12MO-ST-L
AL IN
AR IN
ANA GND
FL OUT
FR OUT
SL OUT
SR OUT
CENT OUT
SW OUT
+15V
-15V
+5VD

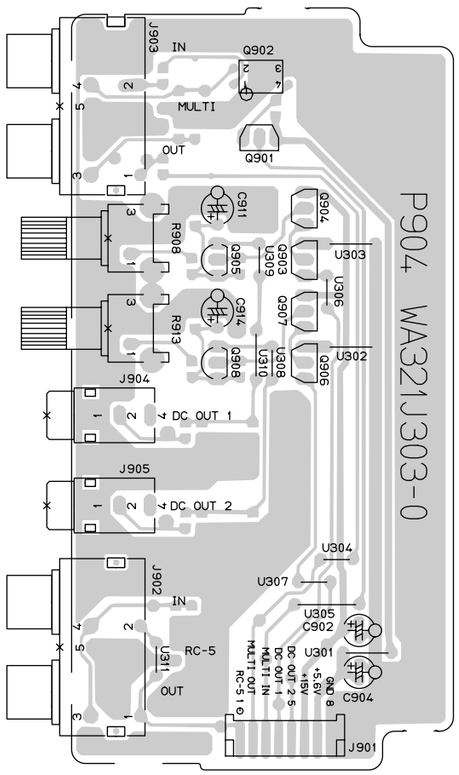
LH01
LH02
FOR DAC-AMP
FOR CODEC

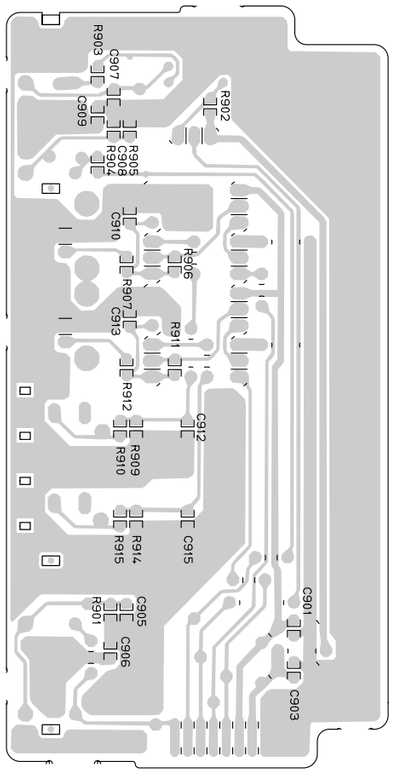
MIXF
MIXS

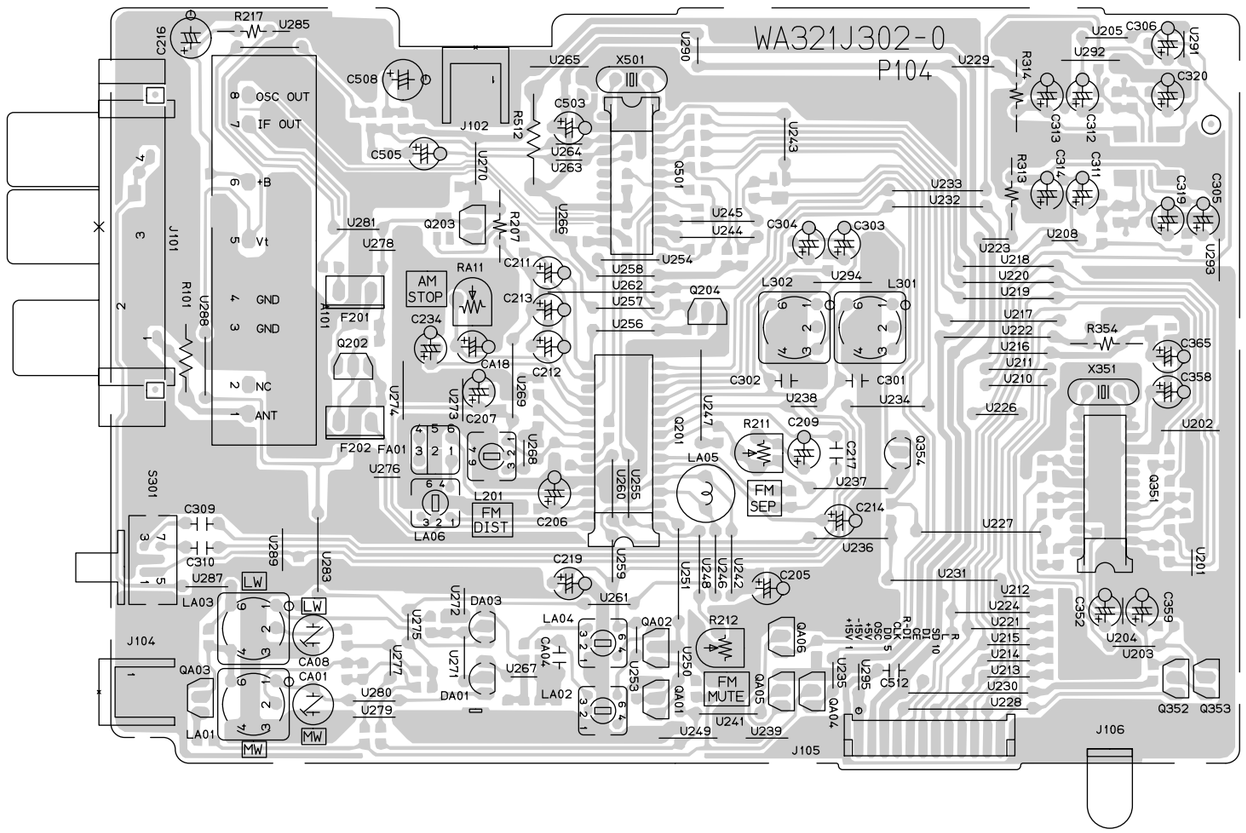
P904 Remote I/O P.C.Board
RRN-*9**
RC-5 IN/OUT
IN
OUT
MULTI-REMOTE
IN
OUT
DC OUT 1
DC OUT 2
DC OUT 1 VOL
DC OUT 2 VOL
MIN
MAX
J901
08MQ-ST-L
TO JY11(PY04)
RC-5 IN/OUT
MURTI RC IN
MURTI RC OUT
DC OUT 1
DC OUT 2
+15V
+5.6VL
GND


PB04
U ONLY
Back-UP P.C.Board
RBU-*B**
SWITCHED
UNSWITCHED
AC.OUTLET
JB05
SUB TRANSF
LB01
JB04
B7B-PH
TO JU03(PU04)
JB03
B3B-EH
TO JY25(PY04)
JB02
B2P3-VH
TO L001
JB01
B2P3-VH
RED
WHT
BLK
WHT
L001
W001
AC120V 60Hz
LO2
FERTE CORE
TO JY19
(PY04)
TO JY18
(PY04)


PB54
K,N,S ONLY
Back-UP P.C.Board
RBU-*B5*
SWITCHED
UNSWITCHED
AC.OUTLET
JB5
(N ONLY)
SUB TRANSF
LB51
JB54
B7B-PH
TO JU03(PU04)
JB53
B3B-EH
TO JY25(PY04)
JB52
B2P3-VH
TO L001
JB51
B2P3-VH
BRN
BLE
WB06
B2P3-VH
L001
L002
FERTE CORE
J001
Z007
K:AC220V 50/60Hz
N,S:AC230V 50Hz
JB61
B2P3-VH
TO JB71(PB74)
TO JY19
(PY04)
TO JY18
(PY04)







5. PARTS LOCATION

P904 (COMPONENT SIDE VIEW)

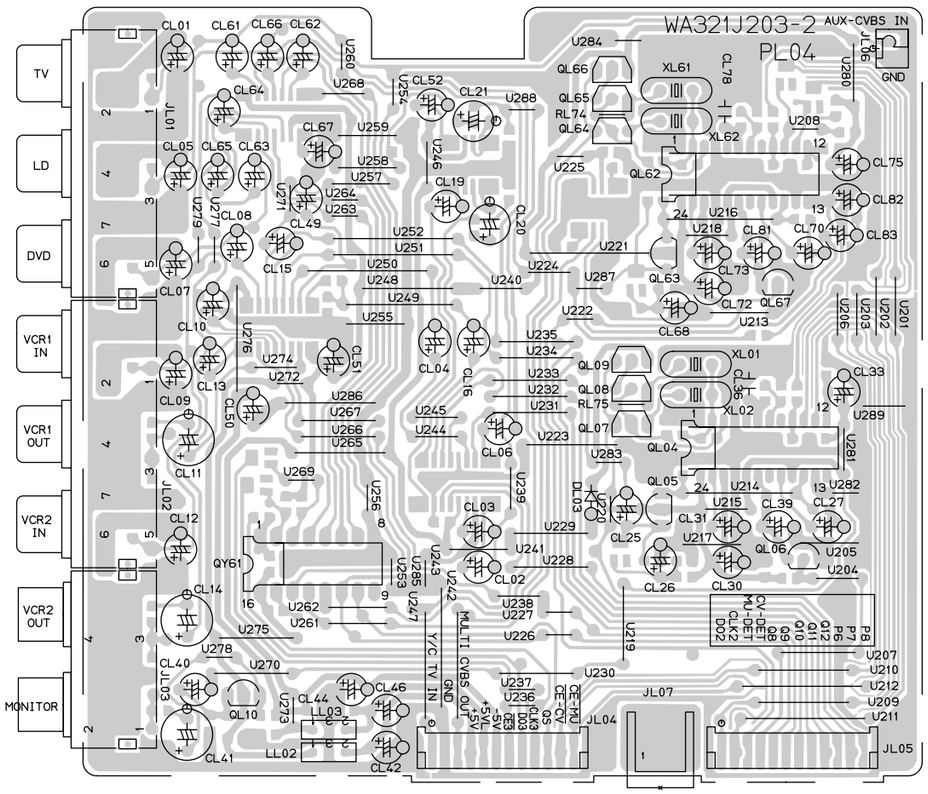
P104 (COMPONENT SIDE VIEW)

P904 (COPPER SIDE VIEW)

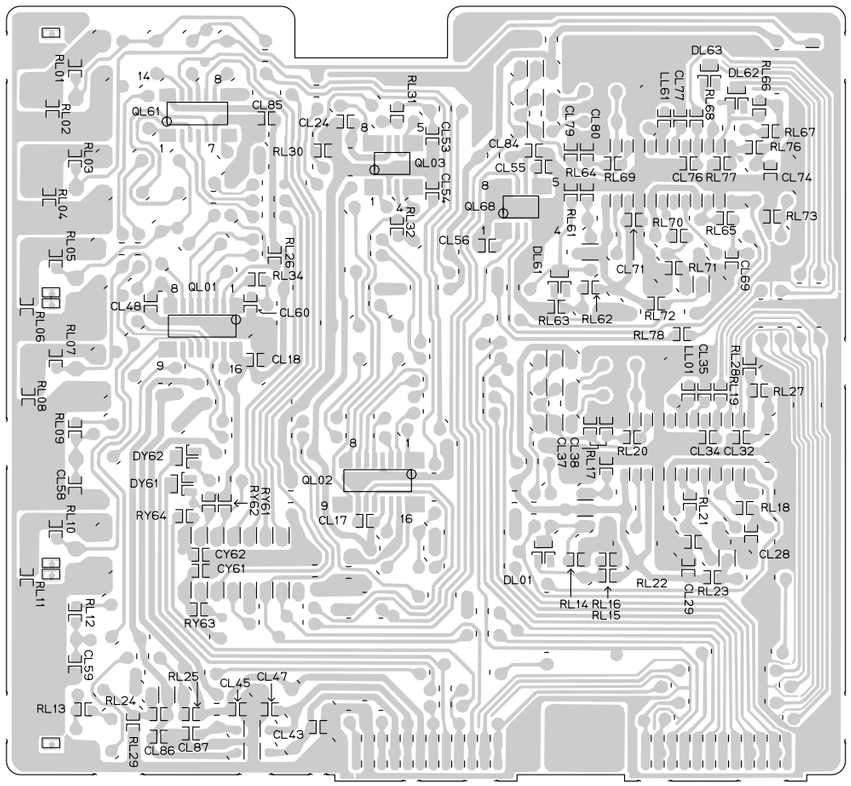
P104 (COPPER SIDE VIEW)

PL04 (COMPONENT SIDE VIEW)

QL64-QL66 QL62
QL07-QL09 QL63 QL67
QL10 QY61 QL05 QL06



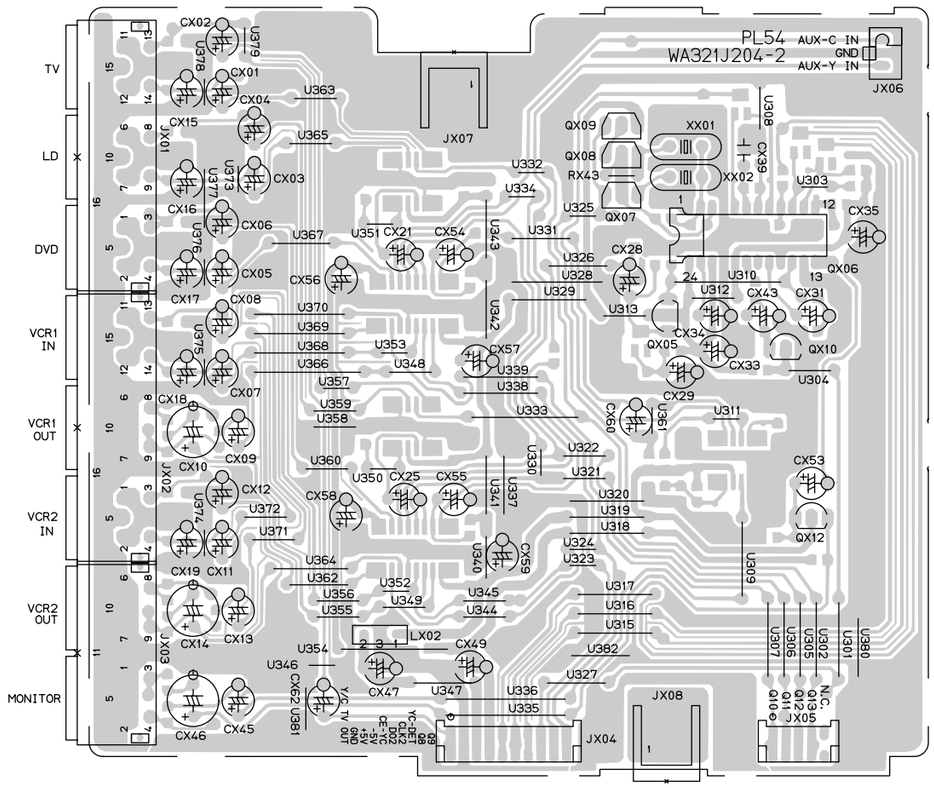
PL04 (B) QL61 QL03 QL68
QL01 QL02



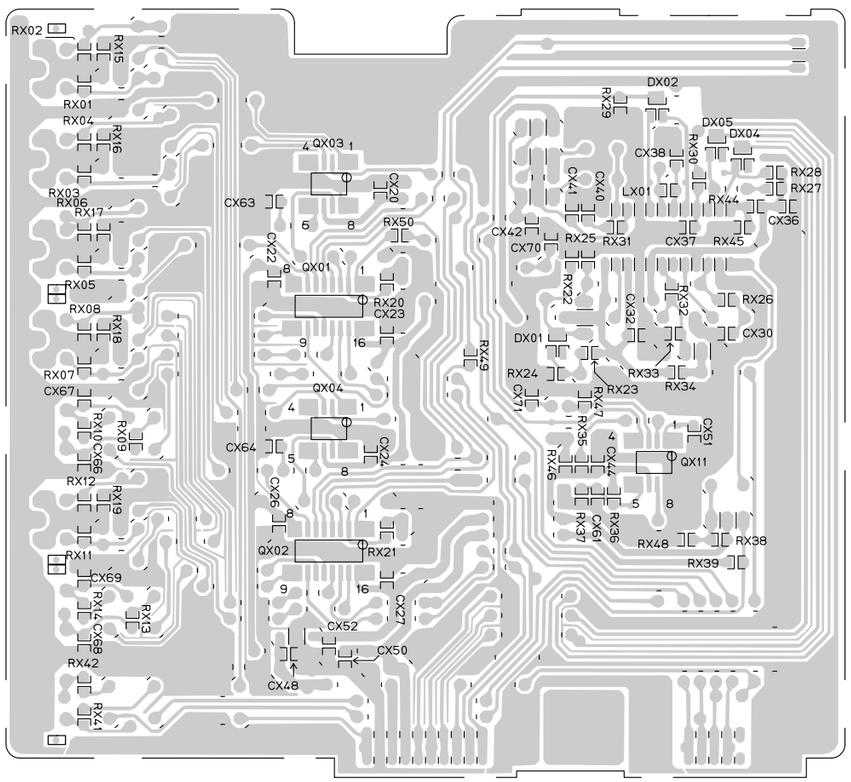
(B) : (COPPER SIDE VIEW)

PL54 (COMPONENT SIDE VIEW)

QX07-QX09
QX05 QX06 QX10

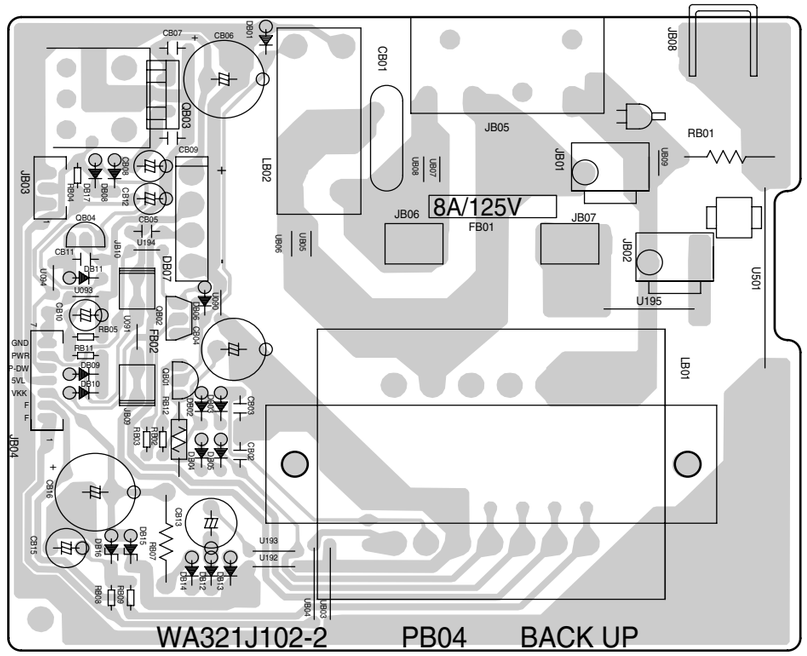


PL54 (B) QX01 - QX04 QX11



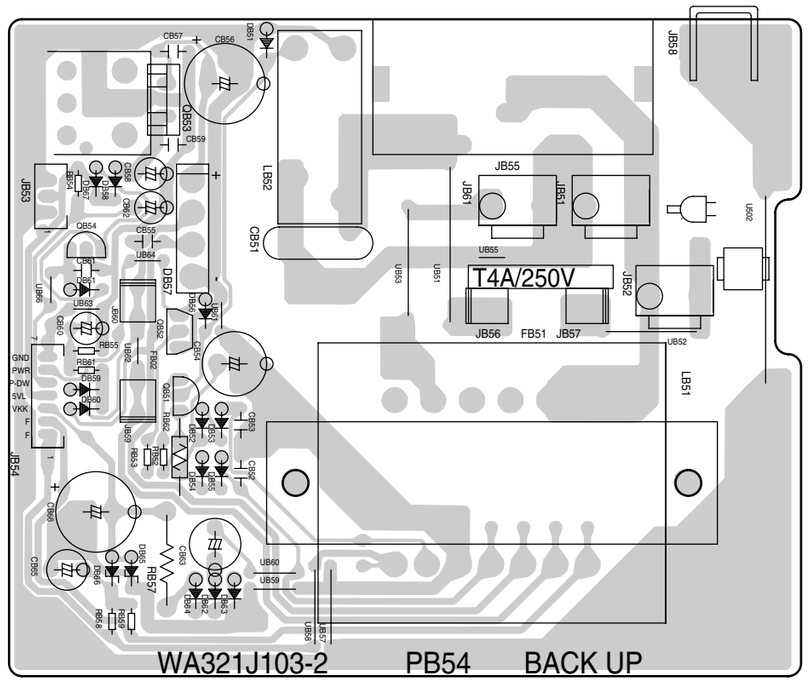
PB04 (U ONLY)

QB03
QB04 QB02 QB01



PB54 (K, N, S ONLY)

QB53
QB54 QB52 QB51



PG04 (COMPONENT SIDE VIEW)

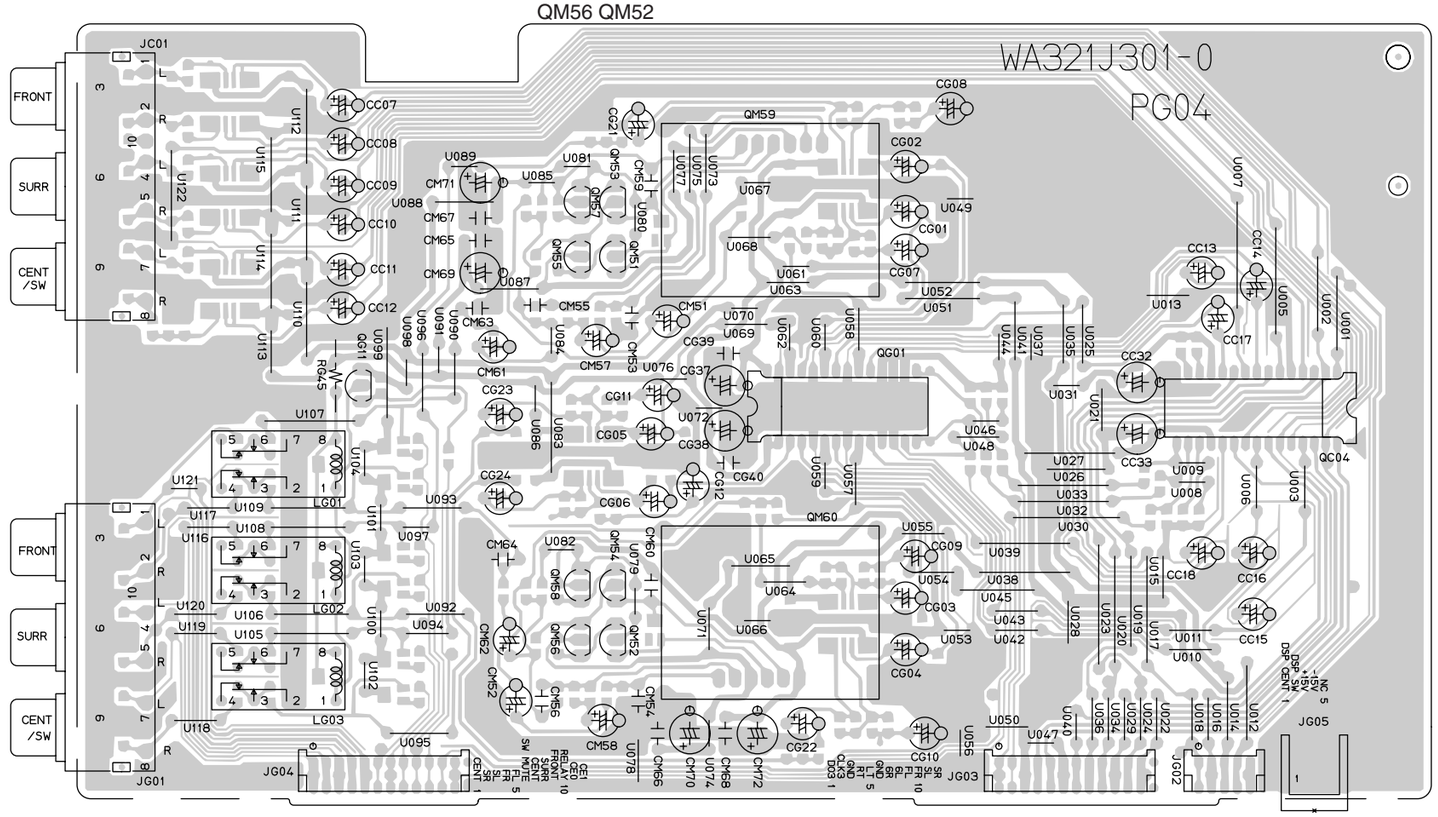
QM57 QM53
QM55 QM51
QM58 QM54
QM56 QM52

QM59

QG01

QC04

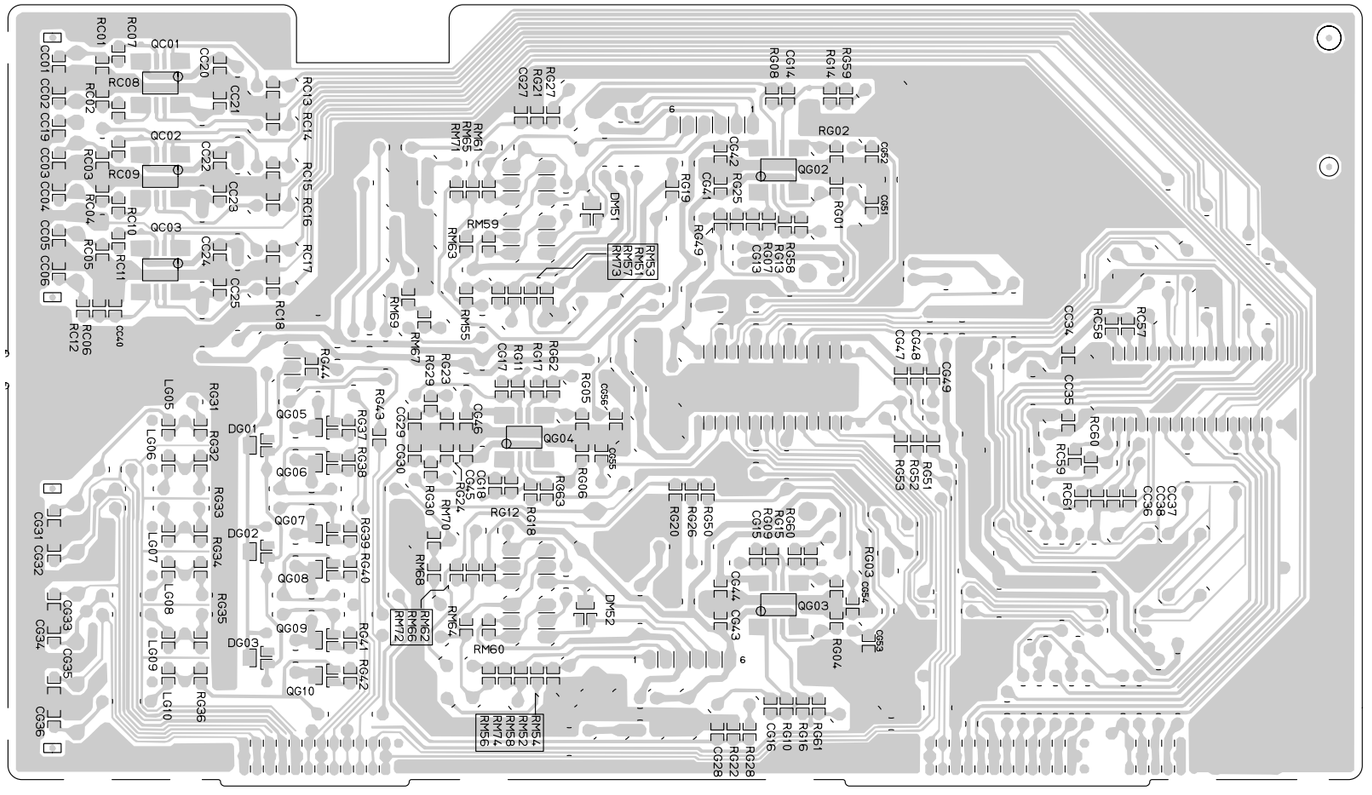
QM60



PG04 QC01 - QC03
(COPPER SIDE VIEW) QG05 - QG10

QG04

QG02
QG03



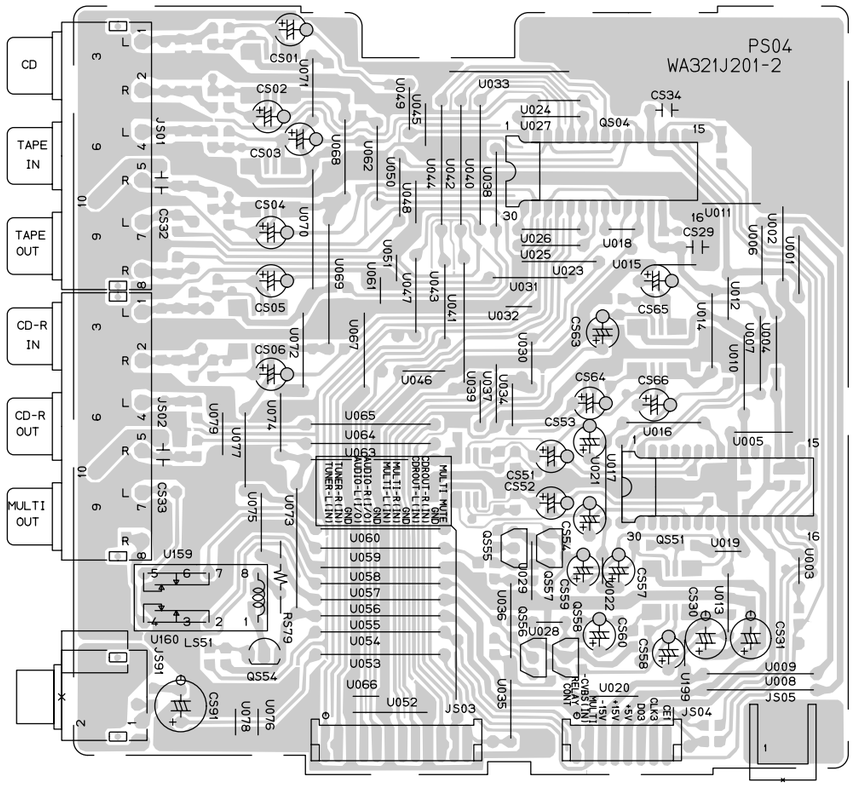
PS04 (COMPONENT SIDE VIEW)

QS54

QS04

QS55-QS58

QS51



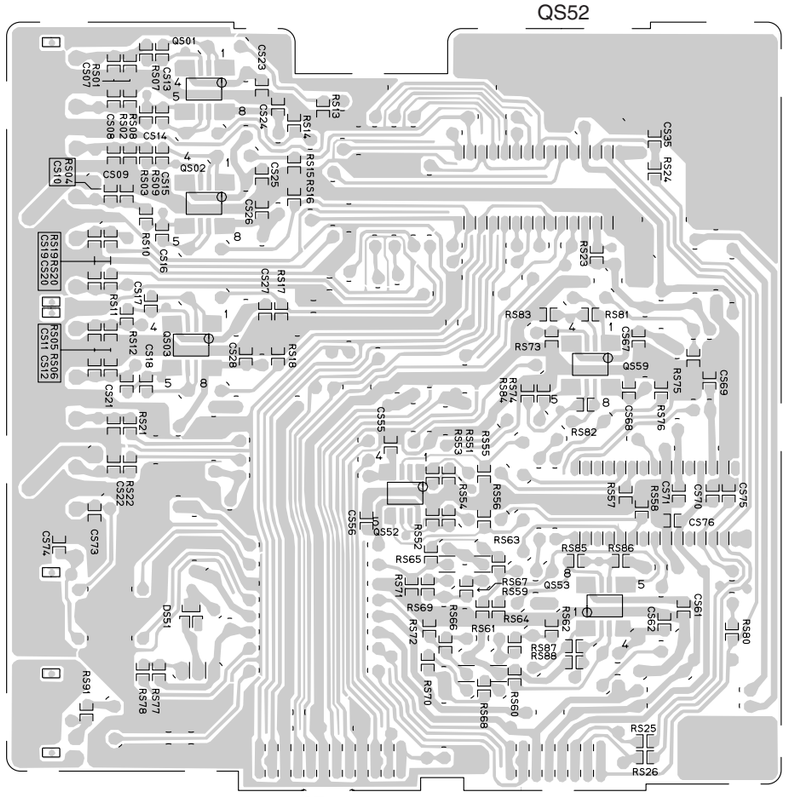
PS04 (B)

QS01 - QS03

QS52

QS59

QS52

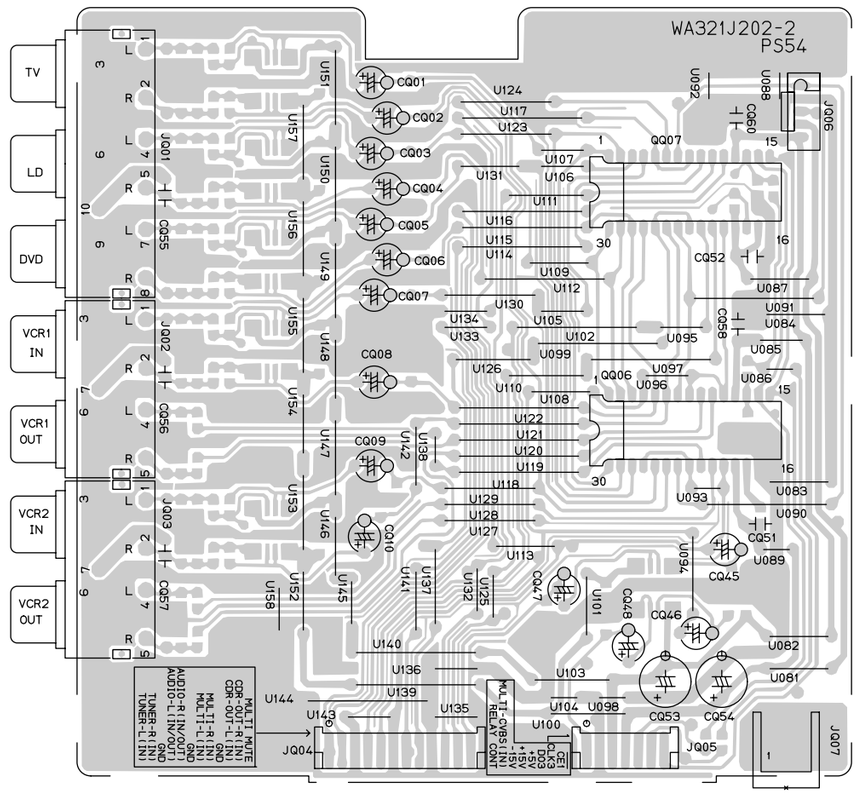


(B) : (COPPER SIDE VIEW)

PS54 (COMPONENT SIDE VIEW)

QQ07

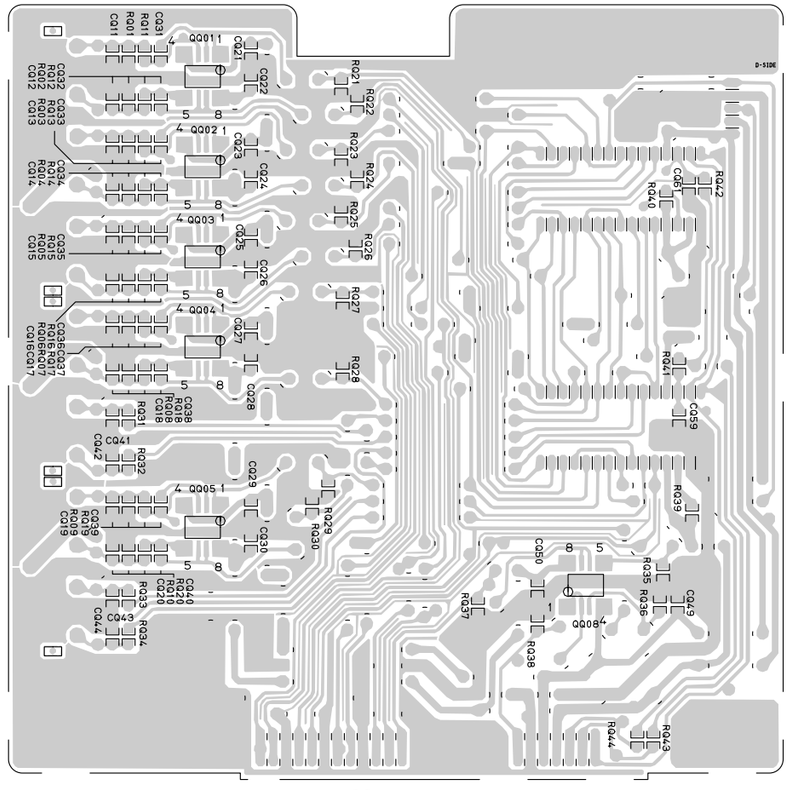
QQ06



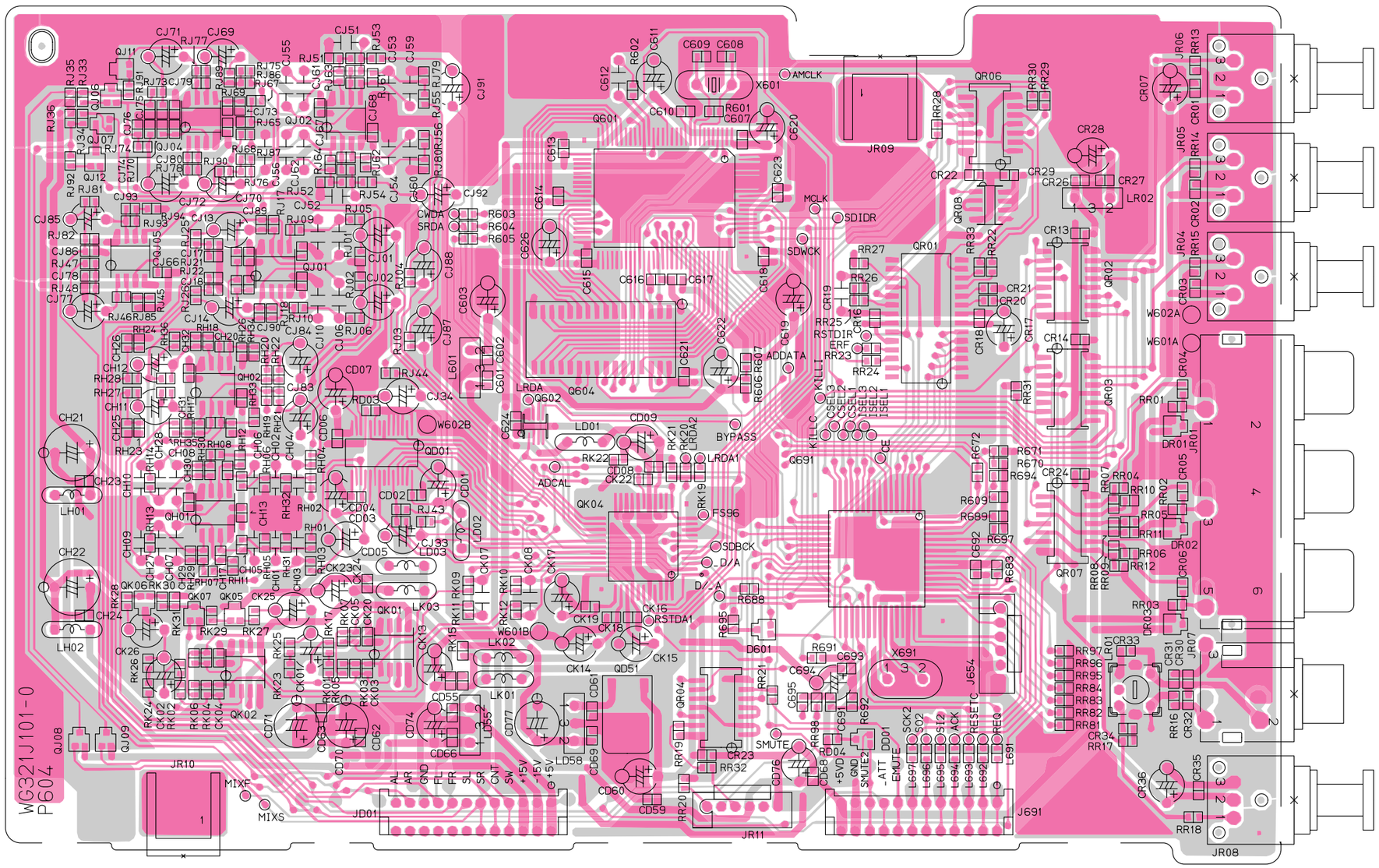
PS54 (B)

QQ01 - QQ05

QQ08



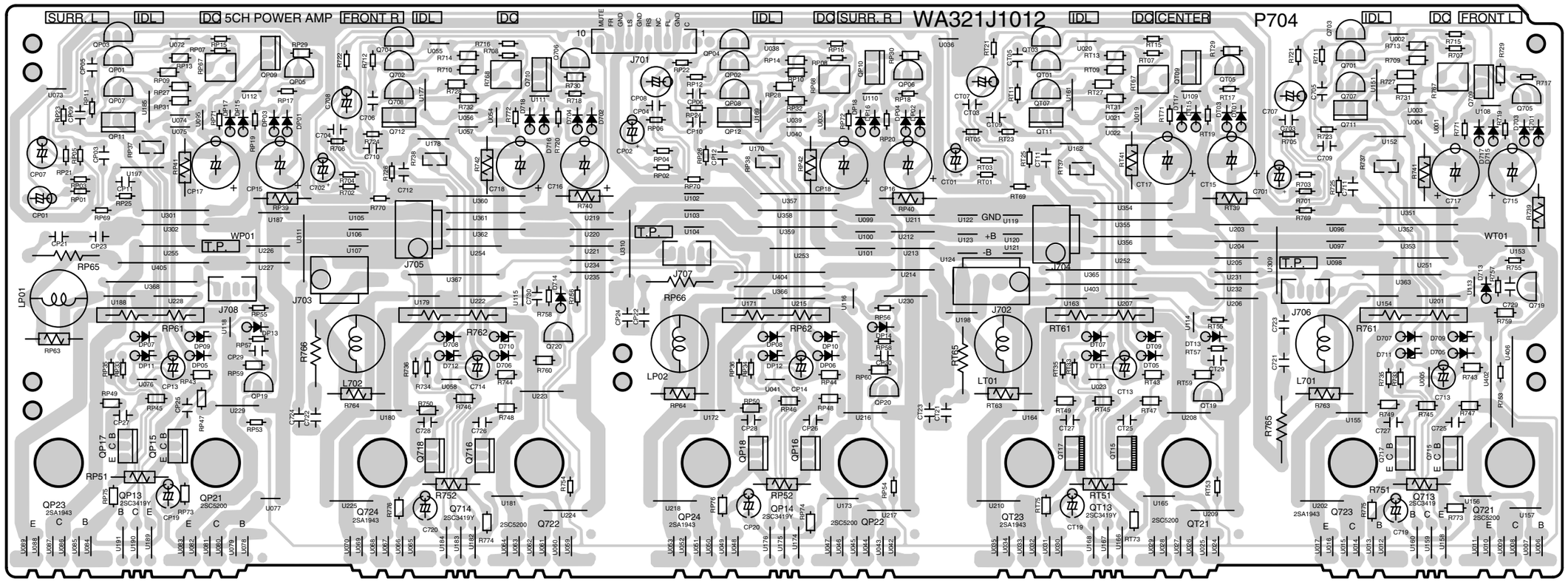
P604 (COMPONENT SIDE VIEW)



ALL COPPER SIDE VIEW

P704

QP03 QP01 QP07 QP11 | QP09 QP05 | Q704 Q702 Q708 Q712 | Q710 Q706 | QP04 QP04 QP04 QP14 | QP10 QP06 | QT03 QT01 QT07 QT11 | QT09 QT05 | Q703 Q701 Q707 Q711 | Q709 Q705



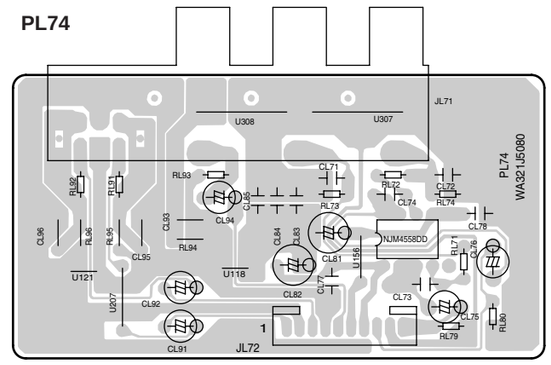
QP19 | Q720 | QP20 | QT19 | Q719

QP17 QP15 | Q718 Q716 | QP18 QP16 | QT17 QT15 | Q717 Q715

QP23 QP13 QP21 | Q724 Q714 Q722 | QP24 QP14 QP22 | QT23 QT13 QT21 | Q723 Q713 Q721

P754

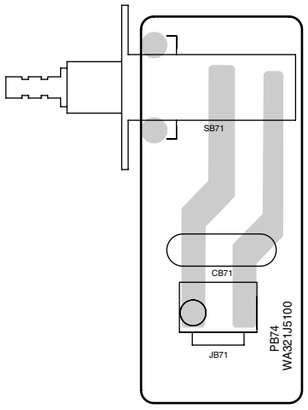
PL74



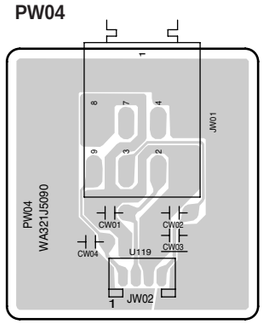
QL71

ALL COPPER SIDE VIEW

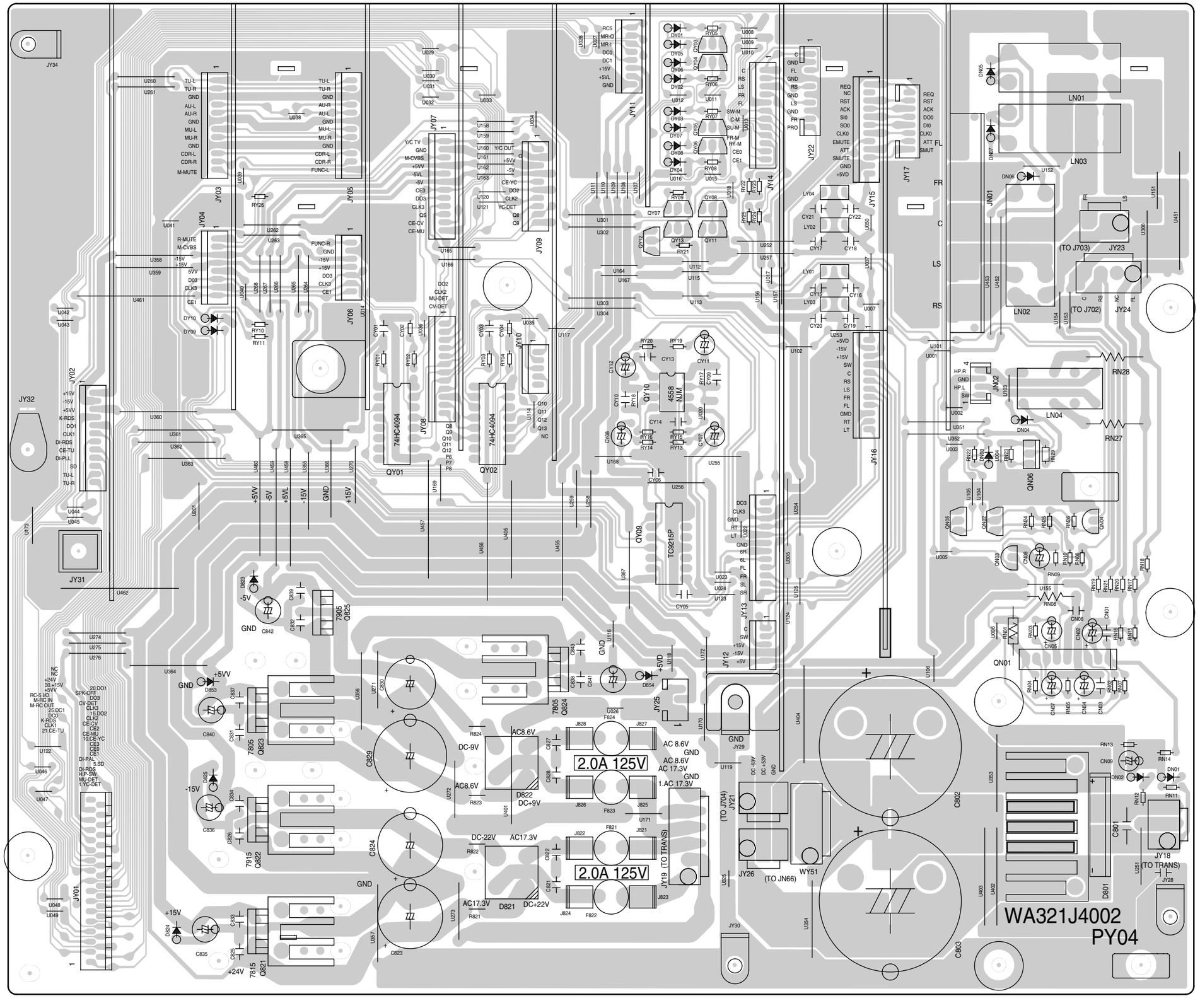
PB74



PW04



PY04



ALL COPPER SIDE VIEW

PU04

QU03 QU04
QU06 - QU08
QU09 - QU16

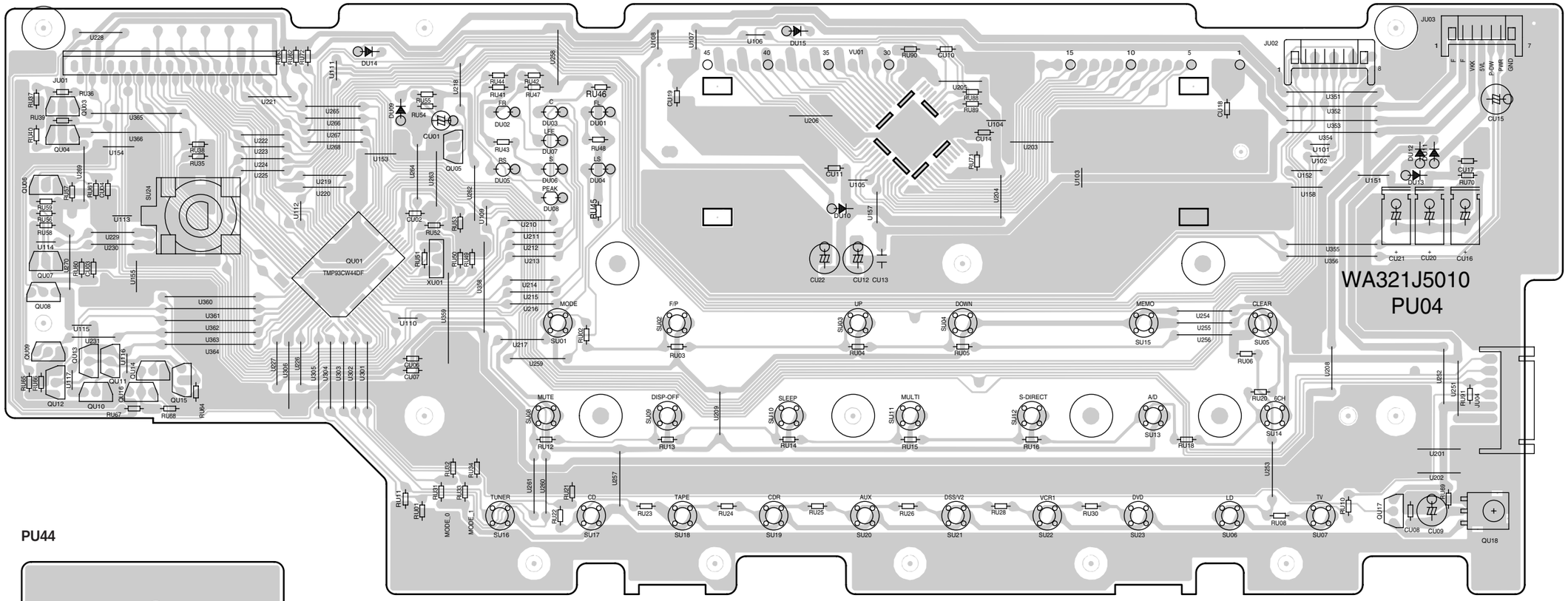
QU05

QU01

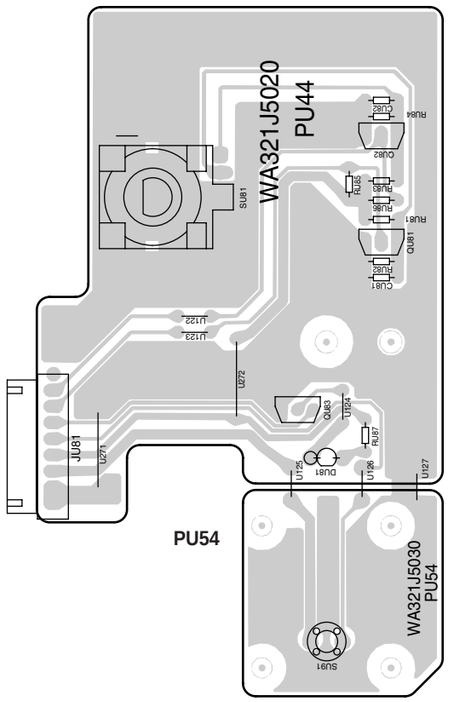
QU02

QU17

QU18

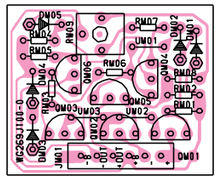


PU44



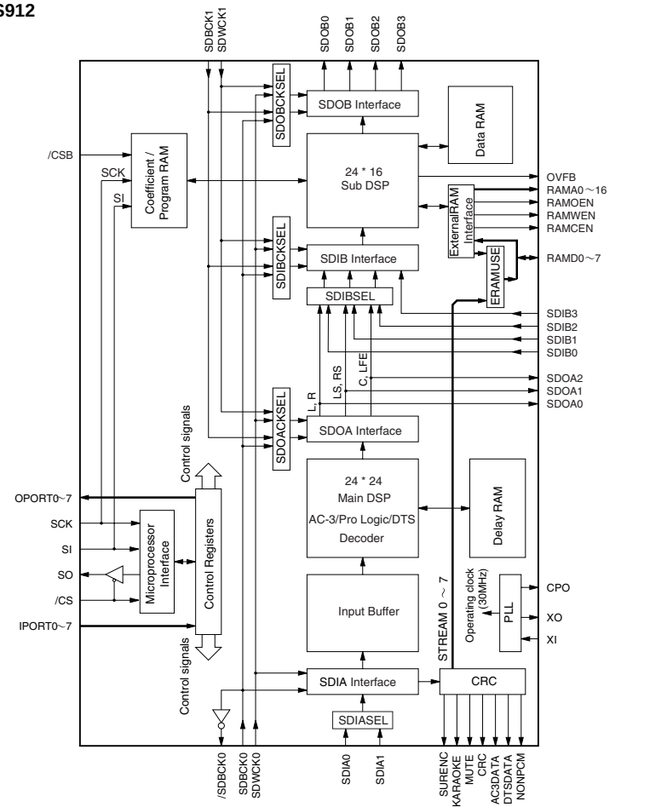
PU54

HDAM (SR8000 ONLY)



6. IC DATA

Q601:YSS912

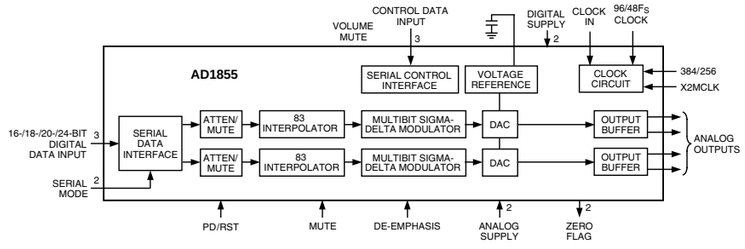


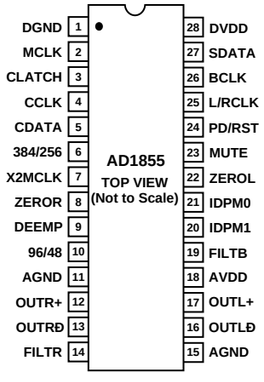
No.	NAME	I/O	FUNCTION
1	VDD1	-	+5V power supply (for I/Os)
2	RAMCEN	O	External SRAM Interface /CE
3	RAMA16	O	External SRAM Interface address 16
4	RAMA15	O	External SRAM Interface address 15
5	SDIB0	I+	PCM input 0 to Sub DSP
6	SDIB1	I+	PCM input 1 to Sub DSP
7	SDIB2	I+	PCM input 2 to Sub DSP
8	XI	I	Crystal 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		Test terminal (to be open in normal use)
14	TEST		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 SDBCKO 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		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

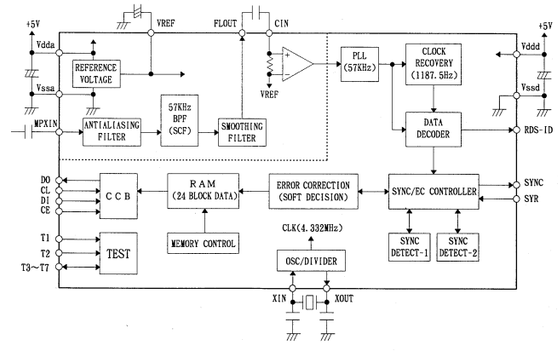
QD01:AD1855

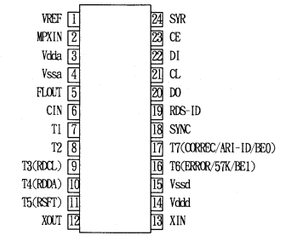




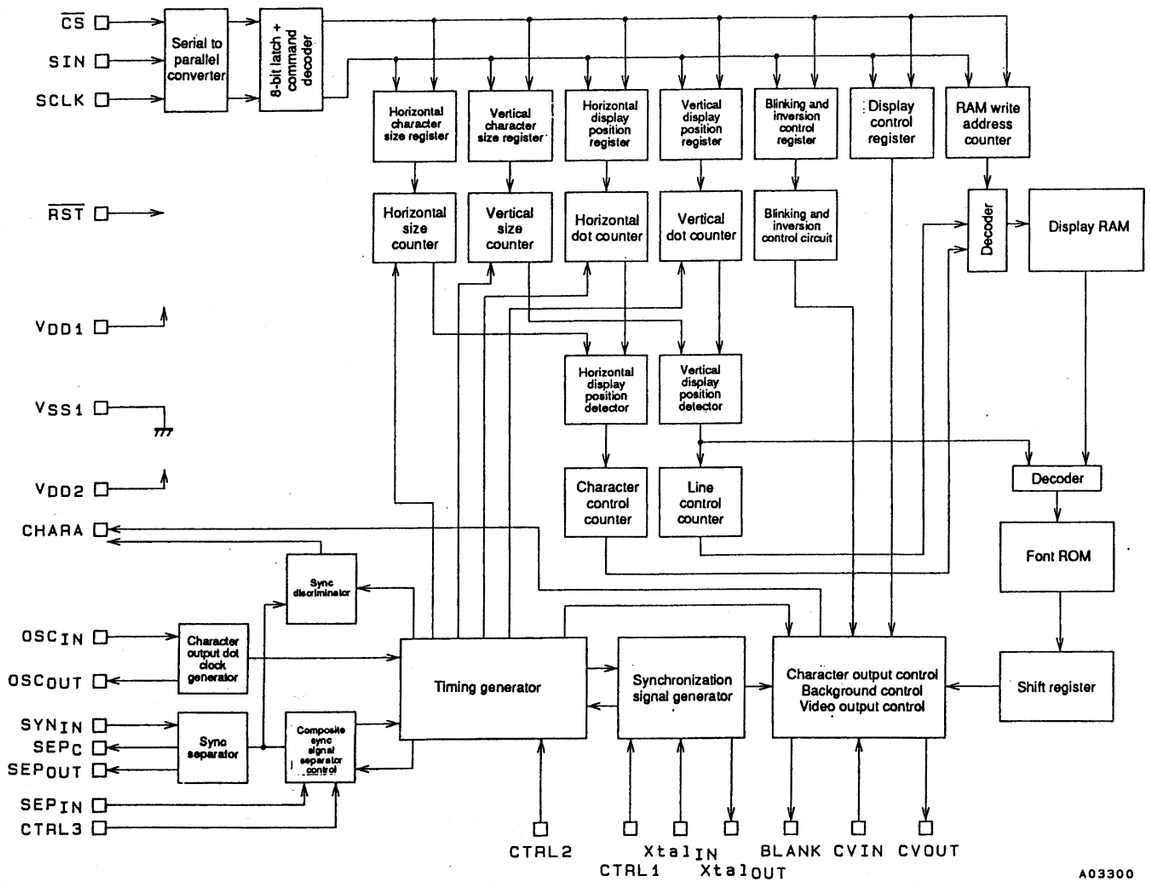
Pin	Input/Output	Pin Name	Description
1	I	DGND	Digital Ground.
2	I	MCLK	Master Clock Input. Connect to an external clock source at either 256, 384 or 512 Fs .
3	I	CLATCH	Latch input for control data. This input is rising-edge sensitive.
4	I	CCLK	Control clock input for control data. Control input data 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/15 ms response characteristic on the output audio spectrum at an assumed 44.1 kHz sample rate.
10	I	96/48	Selects 48 kHz (LO) or 96 kHz Sample Frequency Control.
11, 15	I	AGND	Analog Ground.
12	O	OUTR+	Right Channel Positive line level analog output.
13	O	OUTRĐ	Right Channel Negative line level analog output.
14	O	FILTR	Voltage Reference Filter Capacitor Connection. Bypass and decouple the voltage reference with parallel 10 m F and 0.1 m F capacitors to the AGND.
16	O	OUTLĐ	Left Channel Negative line level analog output.
17	O	OUTL+	Left Channel Positive line level analog output.
18	I	AVDD	Analog Power Supply. Connect to analog +5 V supply.
19	O	FILTB	Filter Capacitor connection, connect 10 m F 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 twos complement data per channel.
28	I	DVDD	Digital Power Supply Connect to digital +5 V supply.

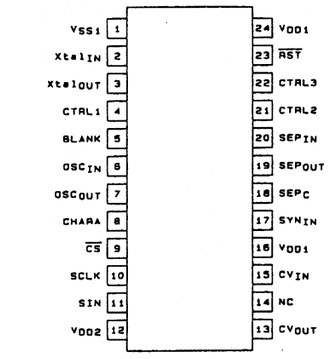
Q351:LC72722



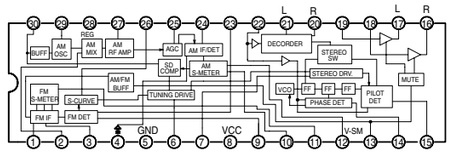


QL04,QL62,QX06:LC74781





Q201:LA1837



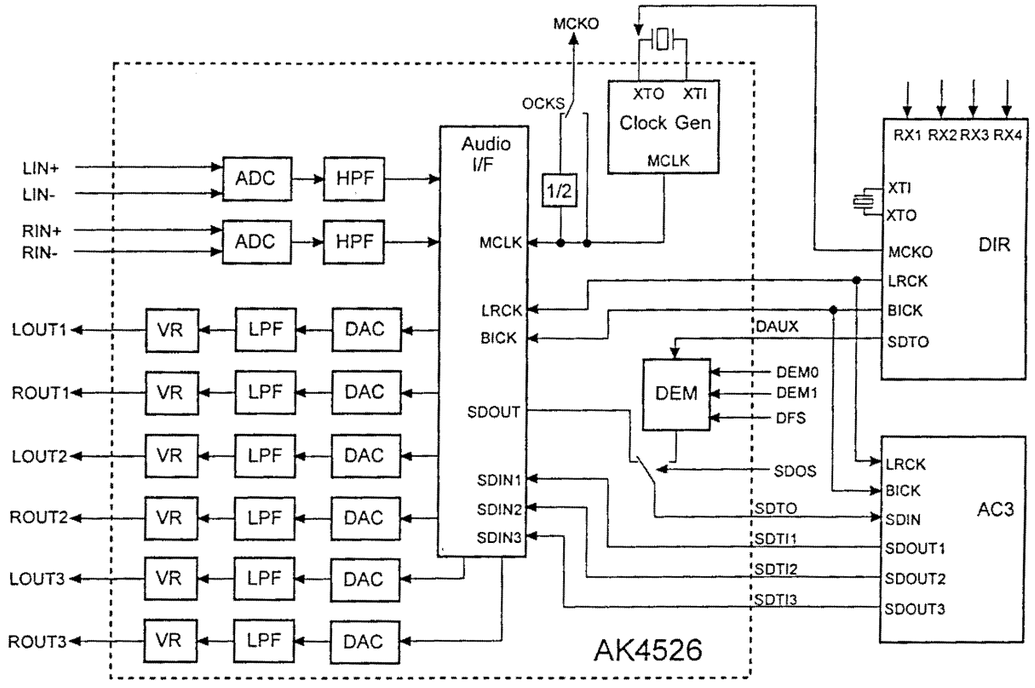
Q201 LA1837

QK04:AK4526

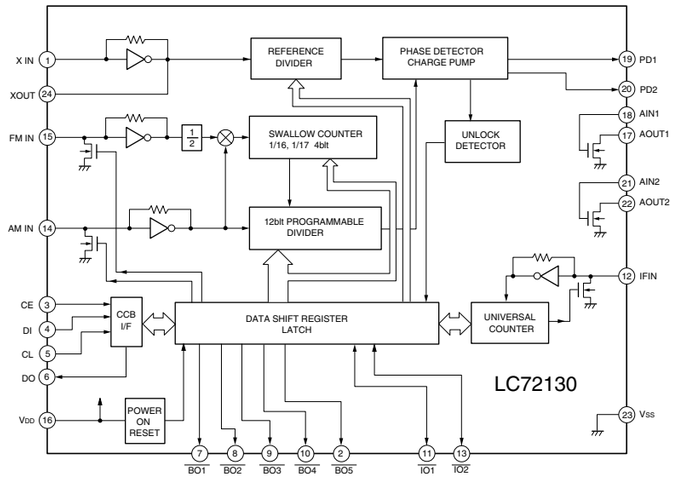
No.	Pin Name	I/O	Function
1	SDOS	I	SDTO Source Select Pin L: Internal ADC output, "H": DAUX input Ored with serial control register if P/S="L".
2	OCKS	I	MCKO Clock Frequency Select Pin L: MCLK, "H" MCLK12 ORed with serial control register if P/S "L"
3	M/S	I	Audio Data Master/Slave Mode Select Pin L: Slave mode. "H": Master mode
4	BICK	I/O	Audio Serial Data Clock Pin
5	LRCK	I/O	Input/Output Channel Clock Pin
6	SDTI1	I	DAC1 Audio Serial Data Input Pin
7	SDTI2	I	DAC2 Audio Serial Data Input Pin
8	SDTI3	I	DAC3 Audio Serial Data Input Pin
9	SDTO	O	Audio Serial Data Output Pin
10	DAUX	I	AUX Audio Serial Data Input Pin
11	DFS	I	Double Speed Sampling Mode Pin "L": Normal Speed, "H": Double Speed, the ADC is powered down. Ored with serial control register if P/S="L".
12	DEM1	I	De-emphasis Pin Ored with serial control register if P/S="L"
13	DEM0	I	De-emphasis Pin Ored with serial control register if P/S="L"
14	MCKO	O	Master Clock Output Pin
15	DVDD		Digital Power Supply Pin
16	DVSS		Digital Ground Pin
17	PD	I	Power-Down & Reset Pin When "L", the AK4526 is powered-down and the control registers are reset to default state. If the state of P/S, M/S, CAD0-1 changes, then the AK4526 must be reset by PD.
18	XTS	I	X'tal oscillator Select/Test Mode Pin H: X'tal Oscillator selected L: External clock source selected
19	ICKS1	I	Input Clock Select 1 Pin
20	ICKS0	I	Input Clock Select 0 Pin
21	CAD1	I	Chip Address Pin Used during the serial control mode
22	CAD0	I	Chip Address Pin Used during the serial control mode.

No.	Pin Narne	I/O	Function
23	LOUT3	O	Lch #3 analog output pin
24	ROUT3	O	Rch #3 analog output pin
25	LOUT2	O	Lch #2 analog output pin
26	ROUT2	O	Rch #2 analog output pin
27	LOUT1	O	Lch #1 analog output pin
28	ROUT1	O	Rch #1 analog output pin
29	LIN-	I	Lch Analog Negative Input Pin
30	LIN+	I	Lch Analog Positive Input pin
31	RIN-	I	Rch Analog Negative Input Pin
32	RIN+	I	Rch Analog Positive Input pin
33	VREFL	I	Negative Voltage Reference Input Pin, AVSS
34	VCOM	O	Common Voltage Output Pin, AVDD/2 Large external capacitor is used to reduce power-supply noise
35	VREPH	I	Positive Voltage Reference Input Pin, AVDD
36	AVDD		Analog Power Supply Pin
37	AVSS		Analog Ground pin
38	XTI	I	X'tal Input Pin
39	XTO	O	X'tal Output Pin if XTS="H"
	MCKI	I	External Master Clock Input Pin if XTS="L"
40	P/S	I	Parallel Serial Select Pin L: Serial control mode, "H": Parallel control mode
41	DIP0	I	Audio Data Interface Format Pin in parallel mode
	CS	I	Chip Select Pin in serial mode
42	DIF1	I	Audio Data Interface Format Pin in parallel mode
	CCLK	I	Control Data Clock Pin in serial mode
43	LOOP0	I	Loop-back Mode Pin in parallel mode
		I	Enables digital loop-bock from ADC to 3 DACs
	CDTI		Control Data Input Pin in serial mode
44	LOOP1	I	Loop-back Mode Pin in parallel mode Enables all 3 DAC channels to be input fgrom SDTI1
	CDTO	O	Control Data Output Pin in serial mode

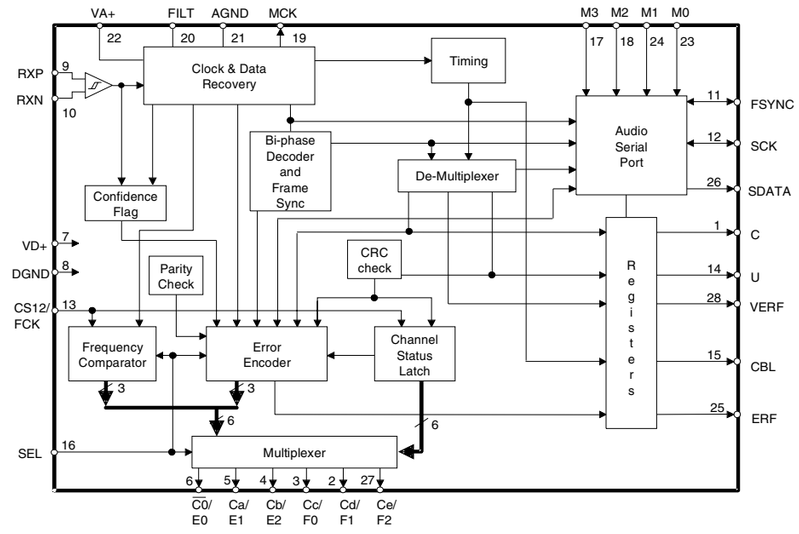
If pins XTS, ICKS0, ICKS1, PD, P/S, DFS, DEM0, DEM1, CAD0, CAD1, M/S, OCKS, SDOS are not driven then XTS, ICKS0, ICKS1, CAD0, CAD1 must be tied to either AVSS or AVDD, PD, P/S, DPS, DEM0, DEM1, M/S, OCKS, SDOS must be tied to either DVSS or DVDD

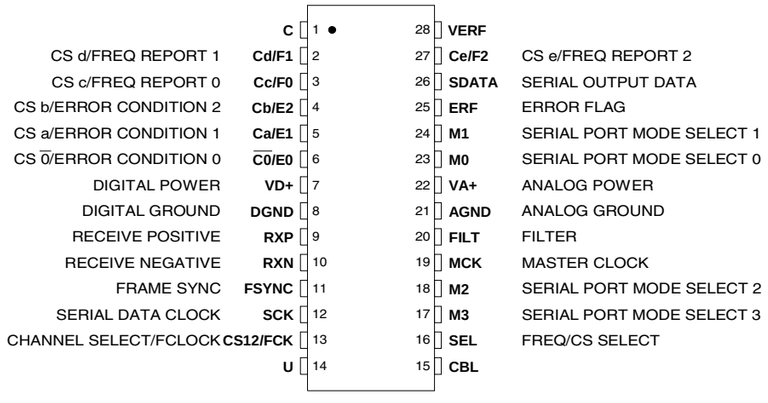


Q501:LC72130



QR01:CS8414





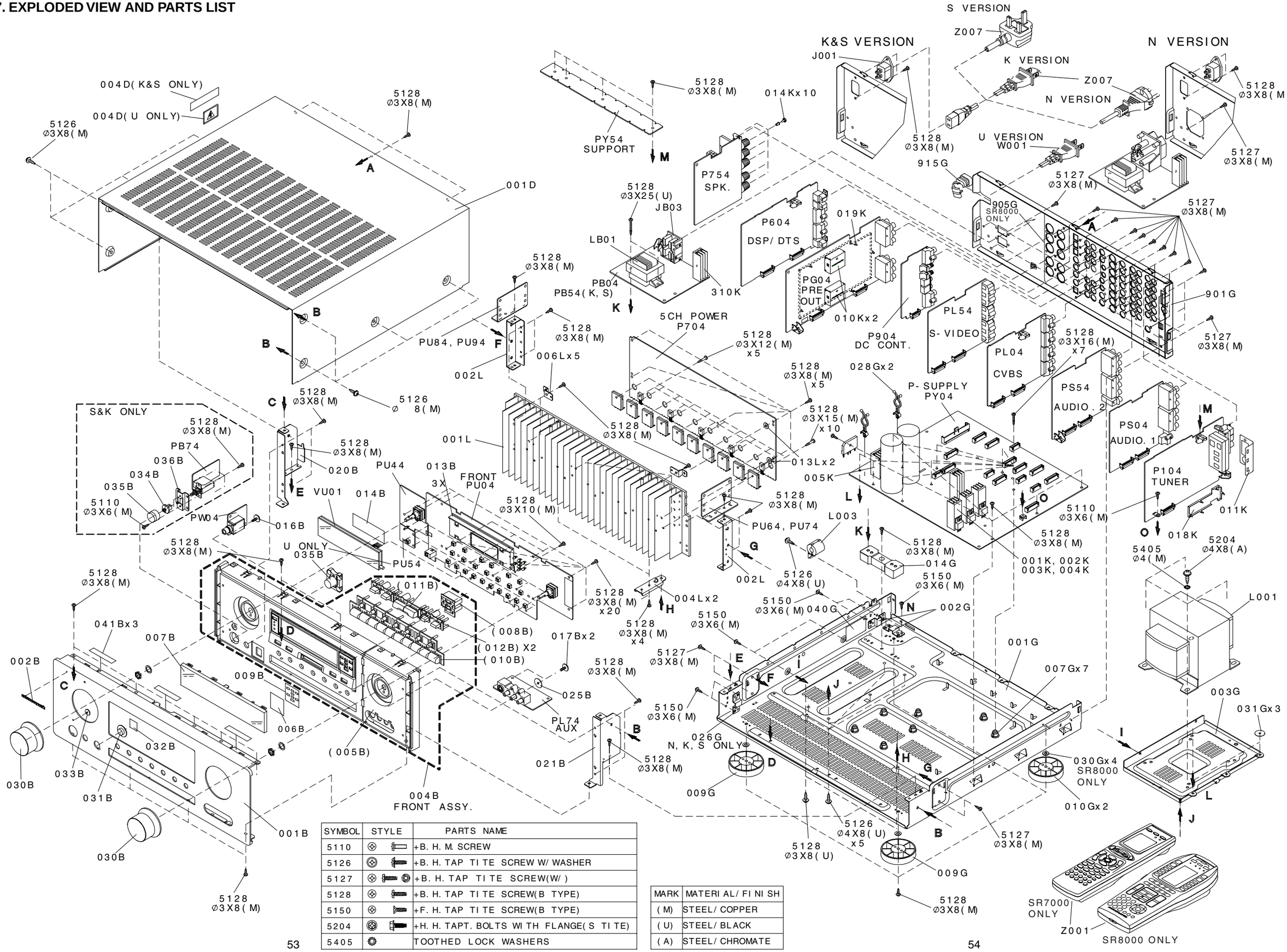
QY01:TMP93CW40DF

Pin	Port name	I/O	Use	Sig.Name	Act.	Note
1	P55/AN5	I	AN	KEY_INPUT3	-	Key Input 3
2	P56/AN6	I	AN	MODE_SW0	-	MODE SWITCH 0
3	P57/AN7	I	AN	MODE_SW1	-	MODE SWITCH 1
4	MIN	I	-	-		toV ss
5	P60/TXD0	I/O	O	DO_TUNER	-	TUNER DO
6	P61/RXD0	I/O	O	CE_TUNER	H	TUNER CE
7	P62/SCLK0	I/O	O	CK_TUNER	-	TUNER CLK
8	P63/TXD1	I/O	O	KILL_RDS	L	Kill RDS Device
9	P64/RXD1	I/O	O	DC_CONTROL0	H	DC Output Control0
10	P65/SCLK1	I/O	O	DC_CONTROL1	H	DC Output Control1
11	P70/WAIT	I/O	O	LED0	L	Front L
12	P71	I/O	O	LED1	L	Front R
13	Vss	I	Vss	-		
14	P72	I/O	O	LED2	L	Center
15	P73	I/O	O	LED3	L	Surr. L
16	P74	I/O	O	LED4	L	Surr. R
17	P75	I/O	O	LED5	L	Surr. Mono
18	P76	I/O	O	LED6	L	LFE
19	P77	I/O	O	LED7	L	Peak
20	CLK	O	-	n.c.		pull up
21	AM8/16	I	-	n.c.		pull up
22	X1	I	X1	20MHz		
23	X2	O	X2	20MHz		
24	EA	I	-	n.c.		pull up
25	RESET	I	RESET			
26	P66/XT1	I/O	O	LED_STANDBY	H	STAND BY LED
27	P67/XT2	I/O	I	VIDEO_DETECT0	L	CVBS Video Detector
28	TEST1	I	-	-		to TEST2
29	TEST2	I	-	-		to TEST1
30	Vcc	I	Vcc	-		
31	Vss	I	Vss	-		
32	ALE	O	-	n.c.		pull up
33	P00/AD0	I/O	I	VOL_ENC_A	-	Vol. Pulse Encoder
34	P01/AD1	I/O	I	VOL_ENC_B	-	Vol. Pulse Encoder
35	P02/AD2	I/O	I	SURR_ENC_A	-	Surr. Pulse Encoder
36	P03/AD3	I/O	I	SURR_ENC_B	-	Surr. Pulse Encoder
37	P04/AD4	I/O	I	VIDEO_DETECT1	L	Y/C Video Detector
38	P05/AD5	I/O	I	VIDEO_DETECT2	L	Multi Video Detector
39	P06/AD6	I/O	I	HEAD_PHONE_SW	L	Head Phone Switch
40	P07/AD7	I/O	I	DI_RDS	-	RDS I/F DI
41	P10/AD8	I/O	I	DI_TUNER	-	Tuner I/F DI
42	P11/AD9	I/O	I	SD_TUNER	L	Tuner I/F SD
43	P12/AD10	I/O	O	DO_SURR	-	Surr. I/F Data Out
44	P13/AD11	I/O	I	DI_SURR	-	Surr. I/F Data In
45	P14/AD12	I/O	O	CK_SURR	-	Surr. I/F CLK
46	P15/AD13	I/O	I	ACK_SURR	L	Surr. I/F Acknowlidge.
47	P16/AD14	I/O	O	REQ_SURR	L	Surr. I/F Request
48	P17/AD15	I/O	O	RST_SURR	L	Surr. I/F Reset
49	P20/A0	I/O	O	SOFT_MUTE	H	Soft Mute ON
50	P21/A1	I/O	O	ATT_ON	L	Attenuate ON
51	P22/A2	I/O	O	CE_AUDIO	L	Audio Device CE
52	P23/A3	I/O	O	CE_VOLUME	H	Volume Device CE
53	P24/A4	I/O	O	CE_SP1	L	4094 Device1 CE
54	P25/A5	I/O	O	CE_FL	L	FL Driver CE
55	P26/A6	I/O	O	CE_OSD1	L	Y/C OSD Driver CE
56	P27/A7	I/O	O	CE_OSD2	L	Multi OSD Driver CE
57	Vcc	I	Vcc	-		
58	P30/RD	O	O	CE_SP0	L	4094 Device0 CE
59	P31/WR	O	O	CE_OSD0	L	CVBS OSD Driver CE
60	P32/SCK	I/O	O	CK_DISP	-	FL & OSD I/F CLK
61	P33/SO	I/O	O	DO_DISP	-	FL & OSD I/F DO
62	P34/SI	I/O	O	POWER_OFF	L	Power OFF output
63	P35/INT0	I/O	INT	POWER_DOWN	L	Power Down
64	P40/INT1	I/O	O	CK_DEVICE	-	CLK for Device I/F
65	P41/TO3	I/O	O	DO_DEVICE	-	DO for Device I/F
66	P42/INT4	I/O	INT	ALL_RC5_IN	H	RC-5 Input(Main&Multi)
67	P43/INT5	I/O	I	MULTI_RC5_IN	H	Multi RC-5 Input
68	P44/TO4	I/O	O	MAIN_RC5_OUT	H	Main RC-5 Output
69	P45/INT6	I/O	O	MULTI_RC5_OUT	H	Multi RC-5 Output
70	P46/INT7	I/O	O	KILL_IR	H	Kill IR signal
71	P47/TO6	I/O	O	SPEAKER_OFF	H	Speaker Relay OFF
72	VrefH	I	VrefH	-		
73	VrefL	I	VrefL	-		
74	Avss	I	Avss	-		
75	Avcc	I	Avcc	-		
76	P50/AN0	I	AN	POWER_DETECT0	-	Power Detect 0
77	P51/AN1	I	AN	POWER_DETECT1	-	Power Detect 1
78	P52/AN2	I	AN	KEY_INPUT0	-	Key Input 0
79	P53/AN3	I	AN	KEY_INPUT1	-	Key Input 1
80	P54/AN4	I	AN	KEY_INPUT2	-	Key Input 2

Q691:µPD78018

Pin	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/TI1	I/O	I	Cc_F0	-	DIR Status
5	P34/TI2	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		-	
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	ISEL3	-	SPDIF input select
13	P43	I/O	O	CSEL1	-	SPDIF output select
14	P44	I/O	O	CSEL2	-	SPDIF output select
15	P45	I/O	O	CSEL3	-	SPDIF output select
16	P46	I/O	O	KILLC	H	Kill SPDIF output
17	P47	I/O	O	KILLIN	H	Kill SPDIF input for DIR
18	P50	I/O	O	SMUTE	H	Soft mute by L/R 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 YSS912 (main DSP)
23	P55	I/O	O	_CSB_DSP1	L	I/F YSS912 (sub DSP)
24	Vss	I	-	GND	-	GND
25	P56	I/O	O	MIXF	-	SW mix to Front LR
26	P57	I/O	O	MIXSF	-	SW mix to Surr LR&FrontL/R
27	P60	I/O	O	_IC	L	Reset to YSS912
28	P61	I/O	O	ADCAL	H	Cal.& RESET to CODEC
29	P62	I/O	O	_RSTDA1	L	Reset to L/R-DAC (AD1855)
30	P63	I/O	O	_ATT3	L	Attenuate to output
31	P64	I/O	O	D_A	-	Digital/ _Analog select
32	P65	I/O	O	A_D	-	Analog / _Digital select
33	P66/WAIT	I/O	O	C_EF_DIR	-	DIR Status Out Select
34	P67/ASTB	I/O	O	RSTDIR	H	RESET to DIR
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/AMI3	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	-	Reserved
53	P16/ANI6	I/O	I	SWITCH3	-	Reserved
54	P17/ANI7	I/O	O	RFSEL	H	RF input select
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 YSS912
63	P26/SO0	I/O	O	SO0	-	I/F YSS912
64	P27/SCK0	I/O	O	SCK0	-	I/F YSS912

7. EXPLODED VIEW AND PARTS LIST



SYMBOL	STYLE	PARTS NAME
5110		+B. H. M. SCREW
5126		+B. H. TAP TI TE SCREW W/ WASHER
5127		+B. H. TAP TI TE SCREW(W/)
5128		+B. H. TAP TI TE SCREW(B TYPE)
5150		+F. H. TAP TI TE SCREW(B TYPE)
5204		+H. H. TAPT. BOLTS WI TH FLANGE(S TI TE)
5405		TOOTHED LOCK WASHERS

MARK	MATERI AL/ FI NI SH
(M)	STEEL/ COPPER
(U)	STEEL/ BLACK
(A)	STEEL/ CHROMATE

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
001B	7000 /K1B, /N1B	996500003422	FRONT AL PANEL BLACK	320J248010
001B	7000 /K1G, /N1G	996500003436	FRONT AL PANEL GOLD	320J248110
001B	7000 /U1B		FRONT AL PANEL STANDBY BLACK	320J248020
001B	7000 /U1G		FRONT AL PANEL STNDBY GOLD	320J248120
001B	8000 /K1G, /S1G		FRONT AL PANEL GOLD	321J248110
001B	8000 /U1B		FRONT AL PANEL STANDBY BLACK	321J248020
002B		482245411825	BADGE MARANTZ BADGE	185J251010
005B	BLACK	996500003426	CHASSIS FRONT MOLD BLK	320J105020
005B	GOLD	996500003437	CHASSIS FRONT MOLD GOLD	320J105120
006B			MASK WINDOW SHEET	312J303050
007B		996500003427	WINDOW	312J158110
008B		996500003428	REFLECTOR LED	320J274010
009B			MASK L R C LFE LS S RS	312J303020
010B	BLACK	996500003429	BUTTON FUNCTION BLACK	320J270010
010B	GOLD	996500003441	BUTTON FUNCTION GOLD	320J270110
011B	BLACK	996500003430	BUTTON TUNING BLACK	320J270020
011B	GOLD	996500003442	BUTTON TUNING GOLD	320J270120
012B	BLACK	996500003431	BUTTON CENTER ESC. BLACK	320J270030
012B	GOLD	996500003443	BUTTON CENTER ESC. GOLD	320J270130
013B			HOLDER FL	183J271020
014B			STICKER ADHESIVE FOR FL	056J122010
019B			WASHER D16 T0.5	261J012010
025B			WASHER D16 T0.5	261J012010
030B	BLACK	996500003432	KNOB MASTER BLACK	312J154010
030B	GOLD	996500001391	KNOB MASTER GOLD	312J154020
031B	BLACK	996500003433	LENS IR BLACK	275W355010
031B	GOLD	996500001392	LENS IR GOLD	275W355110
032B	GOLD		MASK IR	312J303030
033B		996500001393	LENS STANDBY LENS	312J355010
034B	/K,/N,/S	996500001394	JOINT POWER	312J125010
035B	BLACK	996500001975	BUTTON POWER SW BLACK	255W270010
035B	GOLD	996500001395	BUTTON POWER SW GOLD	255W270110
035B	/U1B ONLY		BUTTON POWER SW TACT BLACK	320J270040
035B	/U1G ONLY		BUTTON POWER SW TACT GOLD	320J270140
009G		482246242129	LEG FRONT SIDE	183J057010
010G		482246242048	LEG REAR SIDE	183J057110
915G	/U		BUSHING AC CORD	450H259010
⚠ J001	/K,/N,/S ★1	482226731964	JACK MAINS INLET SOT-17	YJ04002250
⚠ J001	/K,/N,/S ★2	996500001313	JACK MAINS INLET PWI1910-H	YJ04002440
⚠ L001	7000 /K,		MAINS TRANSF. EI96-80T PIN TYPE 220V 50Hz	TS19630170
⚠ L001	7000 /N	996500003410	MAINS TRANSF. EI96-80T PIN TYPE 230V 50Hz	TS19630180
⚠ L001	7000 /U		MAINS TRANSF. EI96-80T PIN TYPE 120V 60Hz	TS19630160
⚠ L001	8000 /K		MAINS TRANSF. EI105-80T 220N 50Hz 60Hz	TS60513180
⚠ L001	8000 /S		MAINS TRANSF. EI105-80T 230V 50Hz	TS60513190
⚠ L001	8000 /U		MAINS TRANSF. EI105-80T 120V 60Hz	TS60513170
L003	/K,/N,/U		FERRITE CORE TFCK-25-15-12	FC50250020

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
⚠ W001	/U		MAINS CORD UL CSA NON-INTEGRAL	YC02000880
			PACKING	
001T	7000/K		USER GUIDE SR7000	320J851350
001T	7000/N	996500003434	USER GUIDE SR7000	320J851310
001T	7000/U		USER GUIDE SR7000	320J851250
001T	7000/K		USER GUIDE SR8000	321J851360
001T	7000/S		USER GUIDE SR8000	321J851350
001T	7000/U		USER GUIDE SR8000	321J851250
Z001	7000	996500003420	REMOTE COMMANDER RC7000SR	ZK320J0010
Z001	8000		REMOTE COMMANDER RC18SR	ZK300J0010
⚠ Z007	/K ★1		MAINS CORD CCEE 10A 250V	ZC01803110
⚠ Z007	/K ★2		MAINS CORD CCEE 10A 250V	ZC01803090
⚠ Z007	/N ★1	996500003421	MAINS CORD 10A 250V CLASS2	ZC01803120
⚠ Z007	/N ★2	482232111439	MAINS CORD 10A 250V CLASS2	ZC01803080
⚠ Z007	/S ★1		MAINS CORD 10A 250V	ZC01804080
⚠ Z007	/S ★2		MAINS CORD 10A 250V	ZC01804070
			SERVICE KIT	
Z100		996500003435	EXTENSION WIRES (5P, 7P, 8P, 10P, 12Px2) * Refer to WIRING DIAGRAM	*SR7000JIG
			REMARK : ★1 FOR SR7000 (Lot number from 01 to 12) and SR8000 (Lot number from 01 to 09) ★2 FOR SR7000 (Lot number from 13) and SR8000 (Lot number from 10)	
			NOT STANDARD SPARE PARTS	
001S	7000		PACKING CASE	320J801010
001S	8000		PACKING CASE	321J801010
002S			CUSHION LEFT	310J809010
003S			CUSHION RIGHT	310J809020
Z002			LR6AG CP4	ZF53104000
Z003	/K,/N,/S		EXT.ANTENNA FM 931222R	ZA02800020
Z003	/U		EXT.ANTENNA FM	ZA02000070
Z004			LOOP ANT COIL LA-700HB	LA00055010
Z005	/U		PLUG ANT ADAPTOR	YP90000310
Z006	/K		JACK AC ADAPTER SMK S-I6116 PLRTY	YJ04001240

8. 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 [**F/P**] buttons simultaneously over 3 seconds.

FLD shows **"FACTORY"** for 3 seconds. Press [**F/P**] 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(K, N, S)	603	999	1404	531				
	MW/LW(N)	603	999	1404	171	207	270	152	531

2. Version of microprocessor (CPU) and FLD segment check mode

This mode is available to confirm the version of each CPU and 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. FLD shows "**SERVICE**" for 2 seconds.
2. Press [**DISPLAY OFF**] button again, then FLD shows version of program code QU01(main CPU).
3. Press [**DISPLAY OFF**] button again, then FLD shows version of program code Q691(DSP CPU).
4. Press [**DISPLAY OFF**] button again, then all segments lights and all LED lights up.
5. Press [**DISPLAY OFF**] button again, then then all segments lights off and all LED lights up.
6. Press [**DISPLAY OFF**] button again, then then each segments lights on and off.
7. Press [**DISPLAY OFF**] button again, then this mode will be stopped and the product will be FACTORY mode.

3. 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 [**MODE**] buttons simultaneously.
2. FLD shows "**AUTO D1**". By pressing both [**MEMO**] and [**MODE**] 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

3.1. 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 "**3. 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 D5	DIG. 5 IN
6	AUTO D6	DIG. 6 IN
7	AUTO CD	CD IN (Analog)

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

3.2. 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 "**3. 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 100Hz 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 D5	DIG. 5 IN
6	ALL CH D6	DIG. 6 IN
7	ALL CH CD	CD IN (Analog)

3.3. Cross Over circuit for SPK setup

This mode is available to confirm Cross Over circuit for SPK setup.

1. When FLD shows "ALL CH D1"(Refer to **"3. Input and output test mode")**, the Cross Over mode can be selected by pressing [see Fig4] button for the remote commander only each time as shown in Fig 4. ([see Fig4] button is in page3 of AMP function for RC-18SR)

Fig 4. SPK set up mode

Button for RC-18SR	INDICATION for FLD	SPK setup			
		Front L/R	Center	Surr. L/R	Subwoofer
[**CH+**]	ALL CH D1	Large	Large	Large	ON
[**LVL+**]	CROSS 1	Large	Small	Small	OFF
[**LVL-**]	CROSS 2	Large	Small	Large	OFF

4. 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.

5. How to reset the product

When the product is POWER ON, press both [**CLEAR**] and [**DISPLAY OFF**] buttons simultaneously.
FLD shows "**DEFAULT**" for 3 seconds, then all memories are cleared.

Note

* : The remote controller RC2000mkII is available instead of RC-18SR for [**MODE**] button.

9. ELECTRICAL ADJUSTMENTS

1. DC offset adjustment

Master Volume : Minimum, Speaker out : non Load

Step	Power	Channel	Adjustment Point	Test Point	Adjustment Vaule
1	on	Front L	R767	Speaker Output Terminal	± 20mV
		Center	RT67		
		Front R	R768		
		Surr. L	RP67		
		Surr. R	RT68		

Note : If the measured value is not exceed ±50mV, no need to adjust the DC offset.

2. Iding current adjustment

Master Volume : Minimum, Speaker out : non Load

Step	Power	Channel	Adjustment Point	Test Point	Adjustment Vaule
1	Power on	Front L	R737	J706(1p-2p) or R761	The center position
		Center	RT67	J706(3p-4p) or RT61	
		Front R	R738	J707(3p-4p) or R762	
		Surr. L	RP37	J708(3p-4p) or RP61	
2	after 4 minutes	Surr. R	RP38	J707(1p-2p) or R762	see table for adjustment vaule
				J***:4P Connecter [between 1p-4p] R***:Emitter Resister [0.18Ω x 2]	

Time since power on	Idling current adjust.
1 minutes	2.8 - 3.4 mV
1 minutes 30 seconds	3.8 - 4.4 mV
2 minutes	4.8 - 5.6 mV
2 minutes 30 seconds	5.6 - 6.2 mV
3 minutes	6.2 - 6.8 mV
More than 4 minutes	6.8 - 7.4 mV

10. ALIGNMENT PROCEDURES

1. AM IF Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	999 kHz (K, S, N) 1000 kHz (U)	Level 300 μV/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 (MW) Tracking Adjustment

Step	**Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	603 kHz (K, S, N) 600 kHz (U)	Level 300 μV/m (50dB/m) Mod. 400 Hz 30%	603 kHz (K, S, N) 600 kHz (U)	LA01	Output level (L or R) **Maximum** at TAPE-OUT
2		1404 kHz (K, S, N) 1400 kHz (U)	Level 300 μV/m (50dB/m) Mod. 400 Hz 30%	1404 kHz (K, S, N) 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 (LW) Tracking Adjustment [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 500 μV/m (54dB/m) Mod. 400 Hz 30%	171 kHz	LA03	Output level (L or R) **Maximum** at TAPE-OUT
2		270 kHz	Level 500 μV/m (54dB/m) Mod. 400 Hz 30%	270 kHz	CA08	
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 (K, S, N) 1000 kHz (U)	Level 500 μV/m (54 dB/m)	999 kHz (K, S, N) 1000 kHz (U)	RA11	**"TUNED"** indicate on FLD
2			Level 1000 μV/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)	Level 500 μV (54 dB) MONO 1 kHz / Dev.40kHz 53.3% (K, S) MONO 1 kHz / Dev. 75 kHz 100% (U, F)	98 MHz (P2) MONO	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	Level 10 μV (20 dB) MONO 1 kHz / Dev.40 kHz 53.3% (K, N, S) MONO 1 kHz / Dev. 75 kHz 100% (U)	98 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

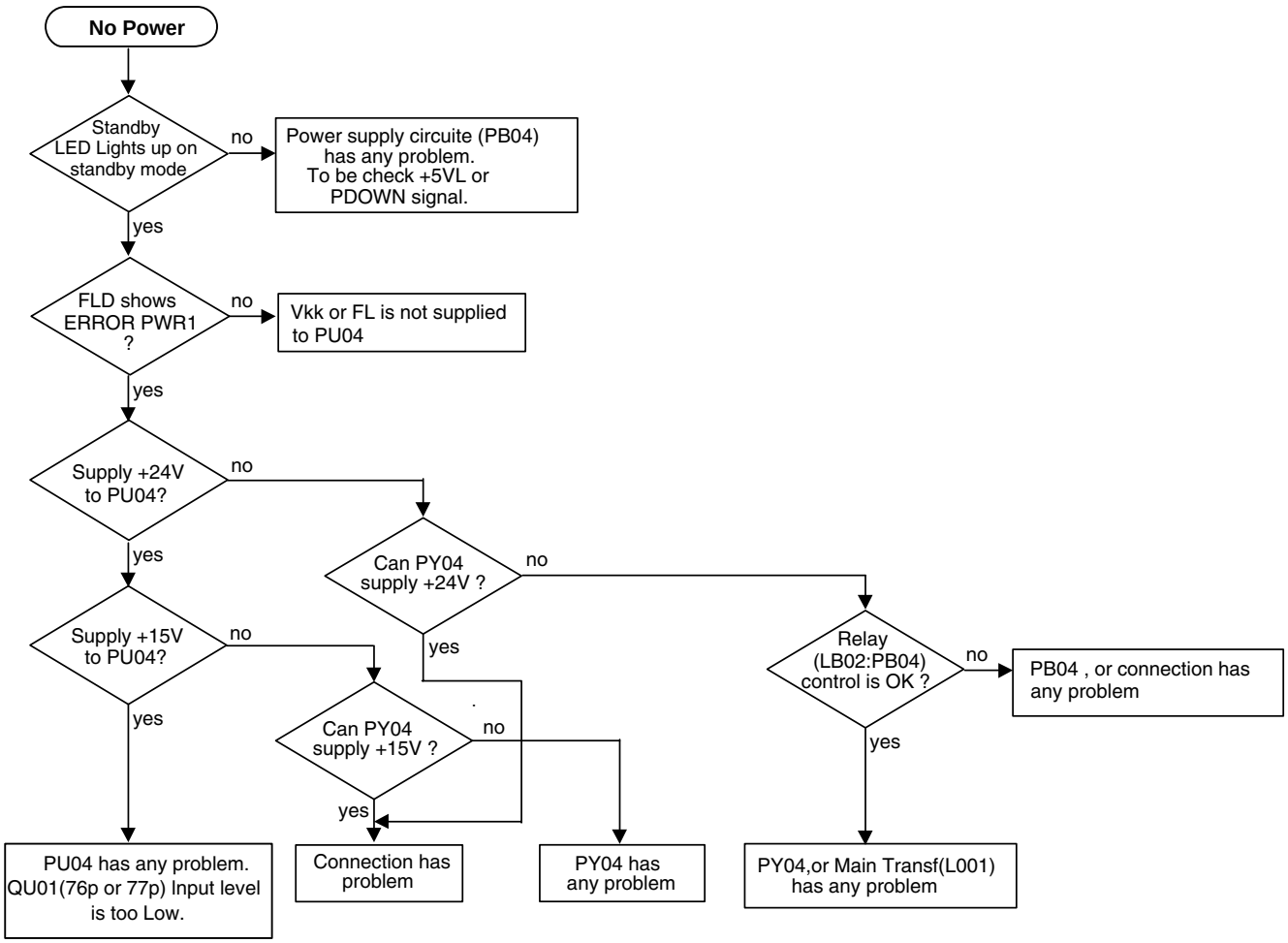
Adjust the **L channel** with the RF signal modulated only **L channel** first and confirm the **R channel** with the RF signal modulated only **R channel**.

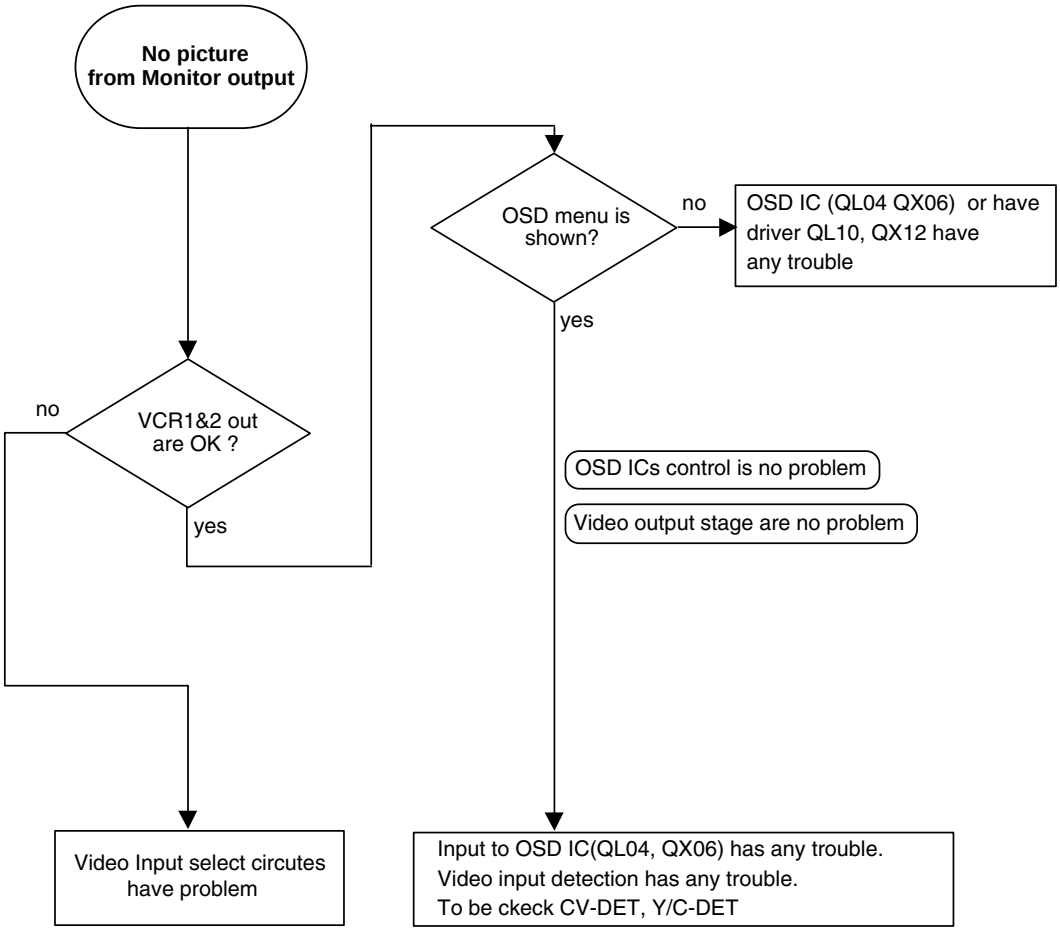
Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 Ω)	98 MHz	Level 500 μV (54 dB) **L** channel 1 kHz / Dev. 40 kHz 53.3% PILOT 19 kHz / Dev. 6 kHz 8%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

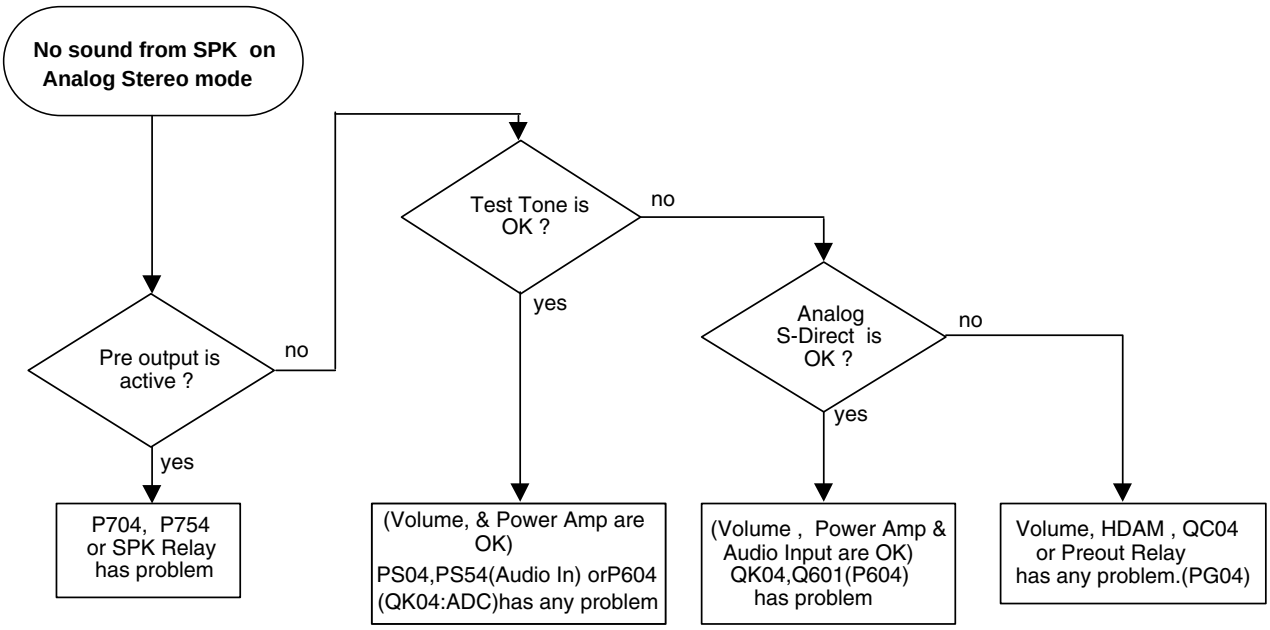
8. FM STEREO Separation Adjustment

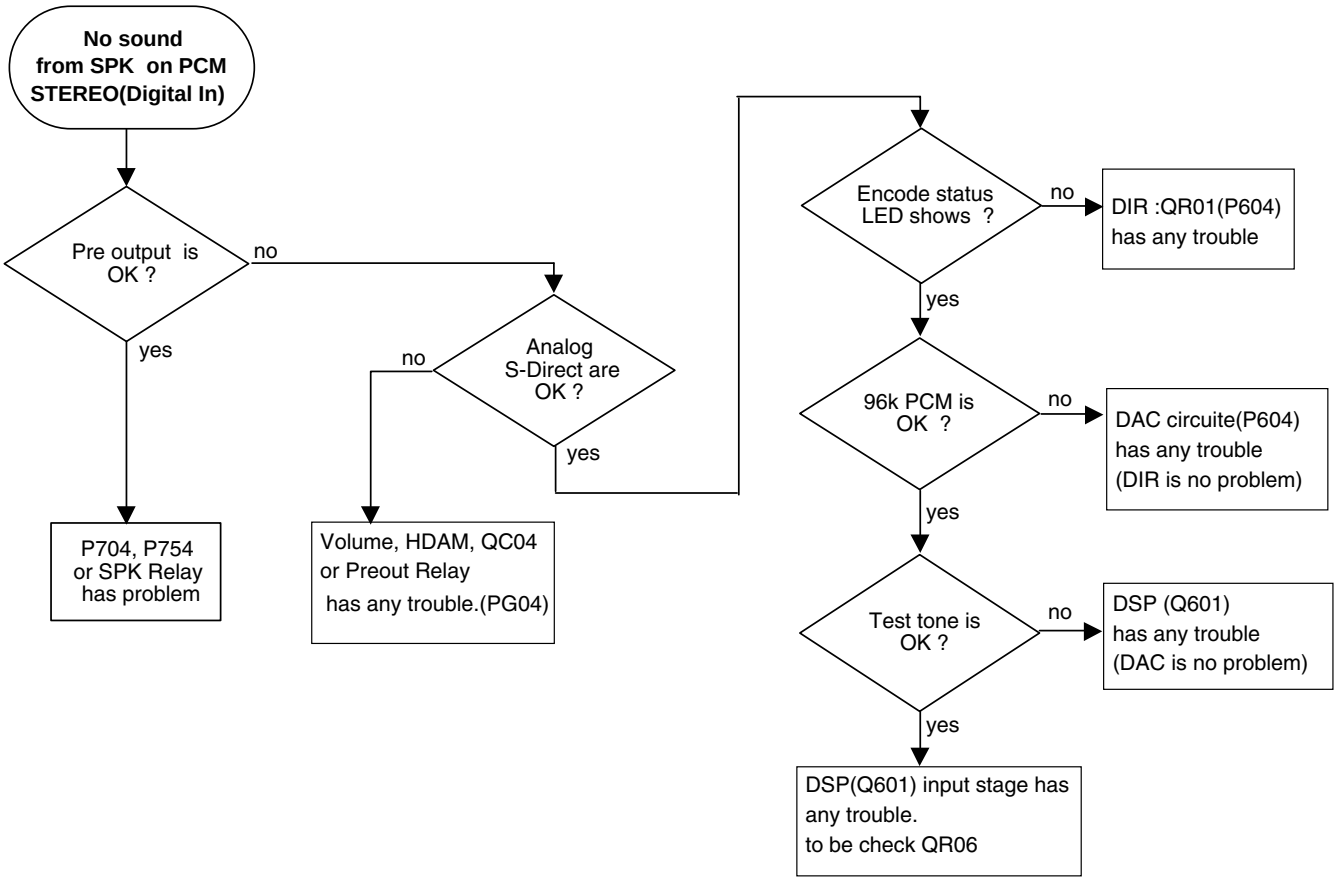
Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 Ω)	98 MHz	same specification as **FM STEREO distortion adjustment**. Input only **L** channel.	98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

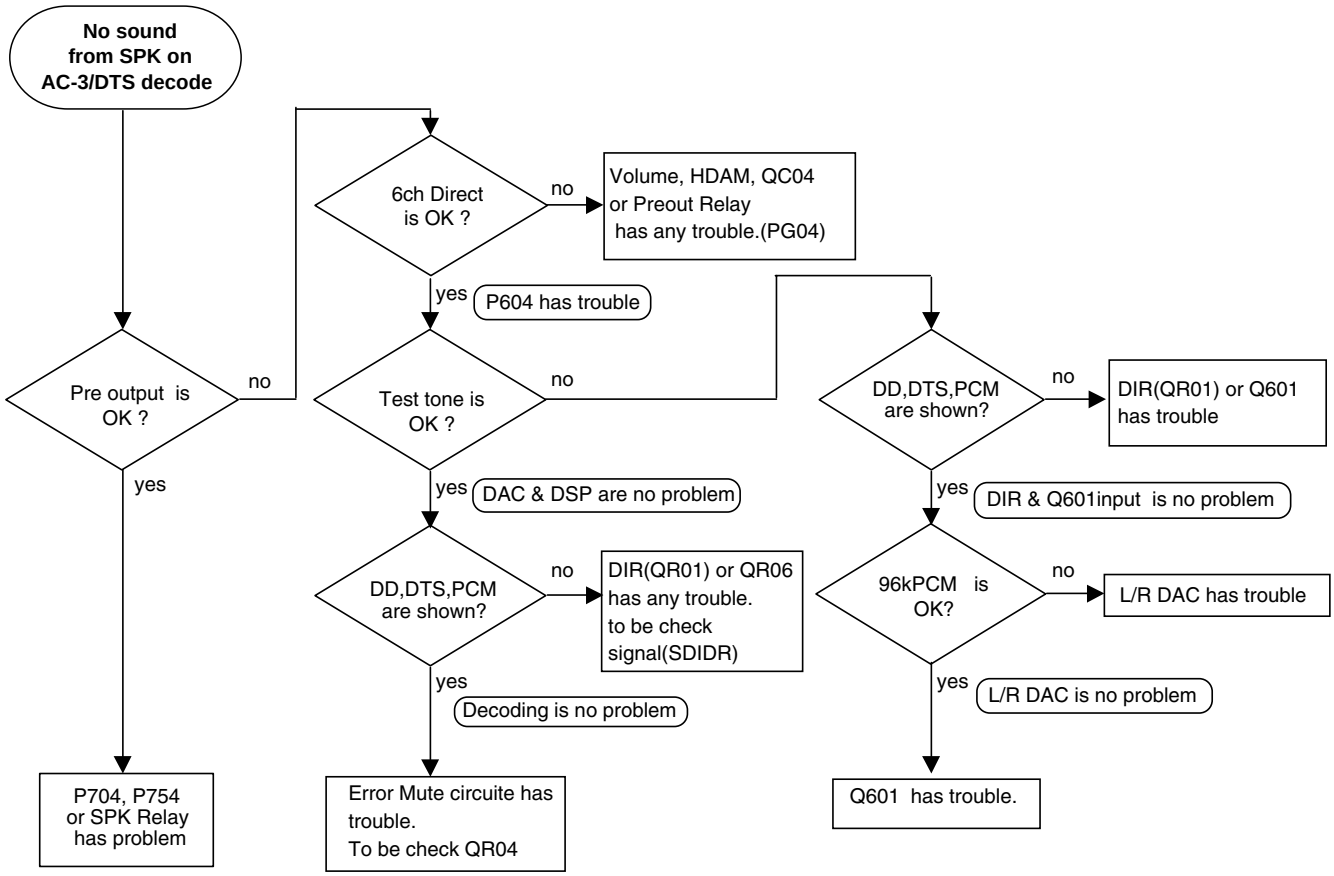
11. TROUBLE SHOOTING

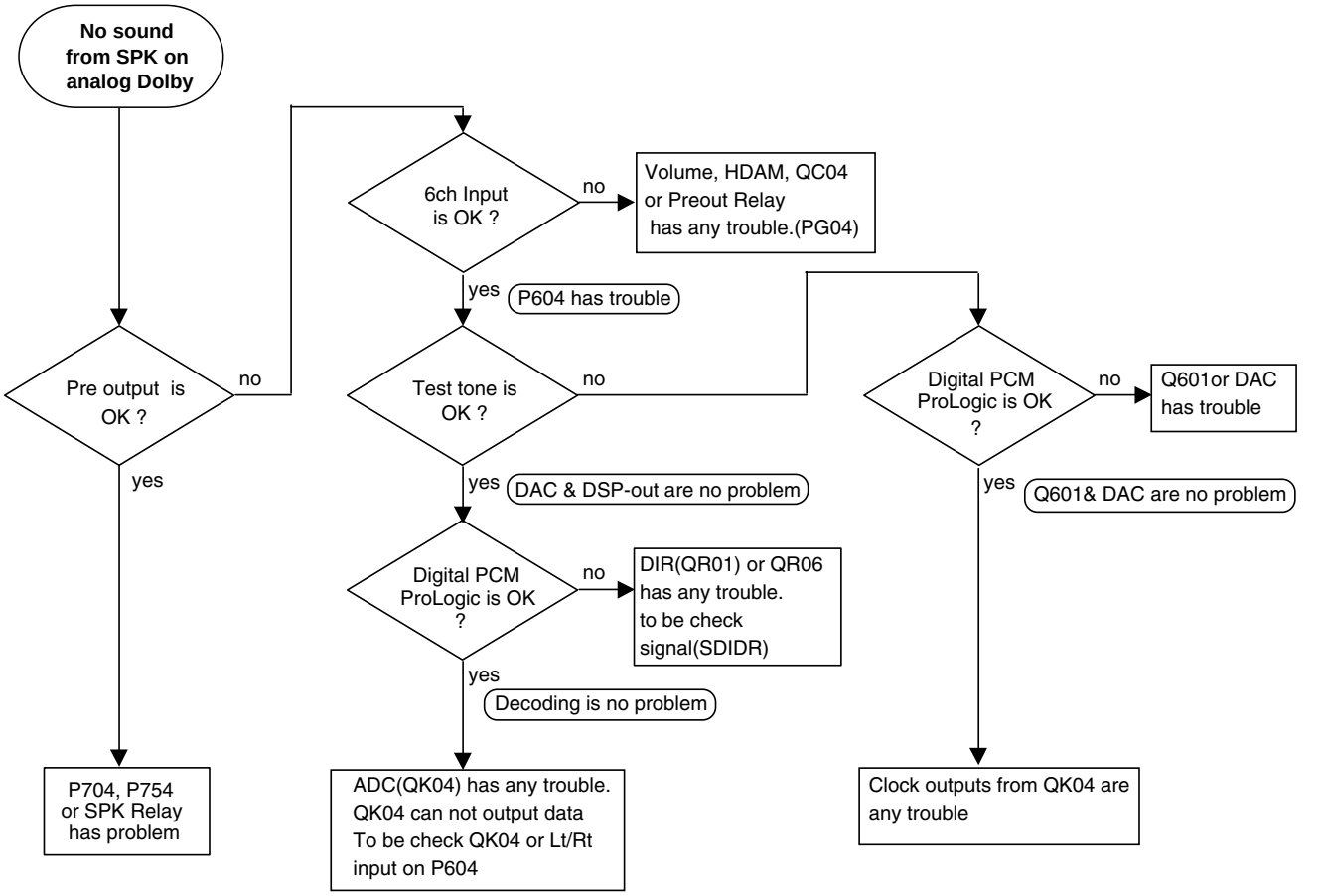





No sound from SPK on Analog Stereo mode
Pre output is active ?
no
yes
P704, P754 or SPK Relay has problem
Test Tone is OK ?
no
yes
(Volume, & Power Amp are OK)
PS04,PS54(Audio In) orP604 (QK04:ADC)has any problem
Analog S-Direct is OK ?
no
yes
(Volume , Power Amp & Audio Input are OK) QK04,Q601(P604) has problem
Volume, HDAM , QC04 or Preout Relay has any problem.(PG04)


No sound from SPK on PCM STEREO(Digital In)
Pre output is OK ?
no
yes
P704, P754 or SPK Relay has problem
Analog S-Direct are OK ?
no
yes
Volume, HDAM, QC04 or Preout Relay has any trouble.(PG04)
Encode status LED shows ?
no
yes
DIR :QR01(P604) has any trouble
96k PCM is OK ?
no
yes
DAC circuite(P604) has any trouble (DIR is no problem)
Test tone is OK ?
no
yes
DSP (Q601) has any trouble (DAC is no problem)
DSP(Q601) input stage has any trouble. to be check QR06


No sound from SPK on AC-3/DTS decode
6ch Direct is OK ?
no
Volume, HDAM, QC04 or Preout Relay has any trouble.(PG04)
yes
P604 has trouble
Pre output is OK ?
no
Test tone is OK ?
no
DD,DTS,PCM are shown?
no
DIR(QR01) or Q601 has trouble
yes
yes
DAC & DSP are no problem
yes
DIR & Q601input is no problem
DD,DTS,PCM are shown?
no
DIR(QR01) or QR06 has any trouble. to be check signal(SDIDR)
96kPCM is OK?
no
L/R DAC has trouble
yes
Decoding is no problem
yes
L/R DAC is no problem
P704, P754 or SPK Relay has problem
Error Mute circuite has trouble. To be check QR04
Q601 has trouble.


No sound from SPK on analog Dolby
6ch Input is OK ?
no
Volume, HDAM, QC04 or Preout Relay has any trouble.(PG04)
yes
P604 has trouble
Pre output is OK ?
no
Test tone is OK ?
no
Digital PCM ProLogic is OK ?
no
Q601or DAC has trouble
yes
yes
DAC & DSP-out are no problem
yes
Q601& DAC are no problem
Digital PCM ProLogic is OK ?
no
DIR(QR01) or QR06 has any trouble. to be check signal(SDIDR)
yes
Decoding is no problem
P704, P754 or SPK Relay has problem
ADC(QK04) has any trouble. QK04 can not output data To be check QK04 or Lt/Rt input on P604
Clock outputs from QK04 are any trouble

12. TECHNICAL DESCRIPTION FOR DECODER

This product has a decoder for Dolby Digital (AC-3) and DTS (Digital Theater System).
So 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.
Decode circuit is consist of 4 ICs (DIR, DSP, CODEC, 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 (100Hz 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 moreprecise localization of sounds and a more convincing, realistic ambience. And, with Dolby Digital, all five main channels arefull 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 theimpact of scenes such as explosions, crashes, etc. Because this channel has only a limited frequency response (3 Hz to 120Hz), it is sometimes referred to as the ".1" channel.When added to the 5 full range channels, the Dolby Digital system issometimes 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.

DIR (Digital audio Interface Receiver)

This circuit extract synchronized clock signals and data from SPDIF signal input.
QR01 (CS8414)generates these signals, this chip supports 96kHz sample rate.

DSP (Digital Signal Processor for Dolby Digital/Pro Logic/DTS)

Q601 (YSS912) decode 6 channels audio from encoded data signal input.
Some effects are processed in addition to multi channel decode on HALL, MATRIX, and MOVIE mode.

DAC (Digital to Analog Converter : QD01 /AD1855)*

The AD1855 is a high performance, single-chip stereo,audio DAC.This chip are used for FRONT L/R channel.

Multi channel CODEC (2 channel ADC & 4* or 6 channel DAC)

2 channel ADC and 4 channel DAC are in QK04 (AK4526).
4* or 6 channel analog audio signals (Front L/R SURROUND L/R, CENTER, LEF) are coverted from output data of DSP.
Digital signal is converted from analog audio input for Pro Logic or other effect mode.

SUB CPU (Q691:uPD78018FGC)

This chip controls ICs in P604 and comunicate with QU01.
Connect to QU01 with serial interface lines.

*** : SR8000 only**

13. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTORS

R✻✻✻: 1) GD05×××140, Carbon film fixed resistor, ±5% 1/4W
R✻✻✻: 2) GD05×××160, 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) DD1××××370, Ceramic capacitor
② ③ Disc type
Temp.coeff.P350 ～N1000, 50V
③ —— Capacity value
② —— 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) DK16××× 300, High dielectric constant ceramic capacitor
④ 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) EA××××××10, Electrolytic capacitor
⑤ ⑥ One-way lead type, Tolerance ±20%
⑥ —— Working voltage
⑤ —— 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) DF15××× 350 → Plastic film capacitor
DF15××× 310 → One-way type, Mylar ±5% 50V
DF16××× 310 → Plastic film capacitor
⑦ 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
NH05×××140	RF25S××××ΩJ	(±5% 1/4W)
NH05×××120	RF50S××××ΩJ	(±5% 1/2W)
NH85×××110	RF73B2A××××ΩJ	(±5% 1/10W)
NH95×××140	RF73B2E××××ΩJ	(±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
NF05×××140	ERD-2FCJ×××	(±5% 1/4W)
RF05×××140		
NF02×××140	ERD-2FCG×××	(±2% 1/4W)
RF02×××140		

✻ 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.	: TRAMSISTOR
VAR.	: VARIABLE	X'TAL	: CRYSTAL

NOTE ON SAFETY :

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

安全上の注意 :

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

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			P101-FM AM TUNER	
			CIRCUIT BOARD	
			P101-CAPACITORS	
C201		532212234098	CER. CHIP 0.01µF	DK56103300
C202		532212234098	CER. CHIP 0.01µF	DK56103300
C203			CER. CHIP 0.047µF B 50V	DK56473300
C204			CER. CHIP 0.047µF B 50V	DK56473300
C205		482212442182	ELECT. 3.3µF M 50V	OA33505020
C206		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
C207		482212490353	ELECT. 100µF M 10V RA-2	OA10701020
C208			CER. 0.047µF B 50V	DK56473300
C209		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
C210		532212234098	CER. CHIP 0.01µF	DK56103300
C211		482212440763	ELECT. 2.2µF M 50V RA-2	OA22505020
C212		482212441543	ELECT. 1µF M 50V RA-2	OA10505020
C213		482212422273	ELECT. 0.47µF M 50V RA-2	OA47405020
C214		482212422698	ELECT. 47µF M 25V RA-2	OA47602520
C215			CER. 0.047µF B 50V	DK56473300
C216		482212490354	ELECT. 100µF M 16V RA-2	OA10701620
C218		532212234098	CER. CHIP 0.01µF	DK56103300
C219		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
C220		482212233127	CER. CHIP 2200pF	DK56222300
C222		532212610511	CER. CHIP 0.001µF	DK56102300
C223		532212234098	CER. CHIP 0.01µF	DK56103300
C225		532212234098	CER. CHIP 0.01µF	DK56103300
C226		532212234098	CER. CHIP 0.01µF	DK56103300
C227	/U	482212233127	CER. CHIP 2200pF	DK56222300
C233		532212234098	CER. CHIP 0.01µF	DK56103300
C234		482212480067	ELECT. 4.7µF M 50V RA-2	OA47505020
C235		532212234098	CER. CHIP 0.01µF	DK56103300
C236		532212234098	CER. CHIP 0.01µF	DK56103300
C237		532212234098	CER. CHIP 0.01µF	DK56103300
C303		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
C304		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
C305	/K,/N,/S	482212480067	ELECT. 4.7µF M 50V RA-2	OA47505020
C306	/K,/N,/S	482212480067	ELECT. 4.7µF M 50V RA-2	OA47505020
C311		482212480067	ELECT. 4.7µF M 50V RA-2	OA47505020
C312		482212480067	ELECT. 4.7µF M 50V RA-2	OA47505020
C313	/K,/N,/S	482212422698	ELECT. 47µF M 25V RA-2	OA47602520
C314	/K,/N,/S	482212422698	ELECT. 47µF M 25V RA-2	OA47602520
C315	/K,/N,/S	532212234098	CER. CHIP 0.01µF	DK56103300
C316	/K,/N,/S	532212234098	CER. CHIP 0.01µF	DK56103300
C317	/K,/N,/S	532212232531	CER. CHIP 100pF	DD55101300
C318	/K,/N,/S	532212232531	CER. CHIP 100pF	DD55101300
C319	/K,/N,/S	482212480067	ELECT. 4.7µF M 50V RA-2	OA47505020
C320	/K,/N,/S	482212480067	ELECT. 4.7µF M 50V RA-2	OA47505020
C351	/N,/S	532212234098	CER. CHIP 0.01µF	DK56103300
C352	/N,/S	532212421731	ELECT. 10µF M 50V RA-2	OA10605020
C353	/N,/S	482212233805	CER. CHIP 330pF	DK56331300
C354	/N,/S	482212233137	CER. CHIP 560pF	DK56561300
C355	/N,/S	532212234098	CER. CHIP 0.01µF	DK56103300
C356	/N,/S	482212233204	CER. CHIP 15pF	DD55150300
C357	/N,/S	482212233204	CER. CHIP 15pF	DD55150300
C358	/N,/S	532212421731	ELECT. 10µF M 50V RA-2	OA10605020
C359	/N,/S	532212421731	ELECT. 10µF M 50V RA-2	OA10605020
C360	/N,/S	532212610511	CER. CHIP 0.001µF	DK56102300
C361	/N,/S	532212232531	CER. CHIP 100pF	DD55101300
C363	/N,/S	532212232531	CER. CHIP 100pF	DD55101300
C364	/N,/S	532212232531	CER. CHIP 100Pf	DD55101300
C365	/N,/S	482212422698	ELECT. 47µF M 25V RA-2	OA47602520
C367		532212232531	CER. CHIP 100pF	DD55101300
C368		532212232531	CER. CHIP 100pF	DD55101300
C370		532212232531	CER. CHIP 100pF	DD55101300
C371		532212232531	CER. CHIP 100pF	DD55101300
C372		532212232531	CER. CHIP 100pF	DD55101300
C373	/N,/S	482212612061	CER. CHIP 0.1µF B 25V	DK56104200
C501		532212232452	CER. CHIP 47pF CH	DD55470300
C502		532212232452	CER. CHIP 47pF CH	DD55470300

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
C503		482212490353	ELECT. 100µF M 10V RA-2	OA10701020
C504		532212234098	CER. CHIP 0.01µF	DK56103300
C505		996500003389	ELECT. 2.2µF 50V BP	EQ22505090
C507		532212234098	CER. CHIP 0.01µF	DK56103300
C508		482212490354	ELECT. 100µF M 16V RA-2	OA10701620
C510		532212232531	CER. CHIP 100pF	DD55101300
C511		532212234098	CER. CHIP 0.01µF	DK56103300
C512		482212230043	CER. CHIP 0.01µF Z 50V	DK18103310
C513	/N	482212610364	CER. 100pF UP050B101K-A	DA16101110
CA01		482212550384	TRIM. VCT51E 20pF	CT12000200
CA02			CER. CHIP 0.047µF B 50V	DK56473300
CA03		482212233204	CER. CHIP 15pF	DD55150300
CA04		482212142466	FILM CHIP 390pF 100V ECQ-P	DF15391550
CA05		532212232452	CER. CHIP 47pF CH	DD55470300
CA06		532212234098	CER. CHIP 0.01µF	DK56103300
CA07	/N	532212234098	CER. CHIP 0.01µF	DK56103300
CA08	/N	482212550384	TRIM. VCT51E 20pF	CT12000200
CA09	/N	482212233204	CER. CHIP 15pF	DD55150300
CA11	/N	482212233514	CER. CHIP 68pF	DD55680300
CA12	/N	532212233538	CER. CHIP 150pF	DD55151300
CA13	/N	532212234098	CER. CHIP 0.01µF	DK56103300
CA14	/N	532212234098	CER. CHIP 0.01µF	DK56103300
CA18		482212480067	ELECT. 4.7µF M 50V RA-2	OA47505020
			P104-CAPACITORS (COMMON)	
C***			PLASTIC FILM CAPACITOR	
			±5% 50V : C217 C301 C302	
			C309-C310[/K]	
			P101-RESISTORS	
⚠ R101	/U	482205021003	10kΩ ±5% 1/2W	GG05103120
R201	/K,/N,/S	482205120101	CHIP 100Ω ±5% 1/10W	NI05101110
R201	/U	482211190892	CHIP	NI05000110
R202		482205120391	CHIP 390Ω ±5% 1/10W	NI05391110
R203		482211711449	CHIP 2.2kΩ ±5% 1/10W	NI05222110
R204		482211191192	CHIP 470Ω ±5% 1/10W	NI05471110
R205		482205120331	CHIP 330Ω ±5% 1/10W	NI05331110
R206		482211191139	CHIP 6.8kΩ ±5% 1/10W	NI05682110
⚠ R207		482205021801	180Ω ±5% 1/4W	GG05181140
R208		996500003405	CHIP 2.7kΩ ±5% 1/6W	NI05272110
R209		482211190918	CHIP 4.7kΩ ±5% 1/6W	NI05472110
R210		482205120332	CHIP 3.3kΩ ±5% 1/6W	NI05332110
R211	/K,/N,/S	482210011352	TRIM. 22kΩ RH0638CJ4R	RA02230780
R211	/U	482210011351	TRIM. 10kΩ RH0638CS3R	RA01030780
R212		482210011351	TRIM. 10kΩ RH0638CS3R	RA01030780
R213		482205120479	CHIP 47Ω ±5% 1/6W	NI05470110
R214		482211710834	CHIP 47kΩ ±5% 1/6W	NI05473110
R215	/K,/N,/S	482211190925	CHIP 68kΩ ±5% 1/6W	NI05683110
R215	/U	482205120273	CHIP 27kΩ ±5% 1/6W	NI05273110
R216		482211190892	CHIP 0Ω ±5% 1/6W	NI05000110
⚠ R217		482205021801	180Ω ±5% 1/4W	GG05181140
R220		482205120101	CHIP 100Ω ±5% 1/10W	NI05101110
R301	/K,/N,/S	482205120479	CHIP 47Ω ±5% 1/10W	NI05470110
R302	/K,/N,/S	482205120479	CHIP 47Ω ±5% 1/10W	NI05470110
R303	/K,/N,/S	482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
R304	/K,/N,/S	482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
R307		482205120153	CHIP 220Ω ±5% 1/10W	NI05221110
R308		482205120153	CHIP 220Ω ±5% 1/10W	NI05221110
R309		482211710834	CHIP 47kΩ ±5% 1/10W	NI05473110
R310		482211710834	CHIP 47kΩ ±5% 1/10W	NI05473110
⚠ R313	/K,/N,/S	482211683929	220Ω ±5% 1/4W	GG05221140
⚠ R314	/K,/N,/S	482211683929	220Ω ±5% 1/4W	GG05221140
R315		996500003405	CHIP 2.7kΩ ±5% 1/10W	NI05272110
R316		996500003405	CHIP 2.7kΩ ±5% 1/10W	NI05272110
R317	/K,/N,/S	482211710834	CHIP 47kΩ ±5% 1/10W	NI05473110
R318	/K,/N,/S	482211710834	CHIP 47kΩ ±5% 1/10W	NI05473110
R319	/K,/N,/S	482205120153	CHIP 15kΩ ±5% 1/10W	NI05153110
R320	/K,/N,/S	482205120153	CHIP 15kΩ ±5% 1/10W	NI05153110

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
R321	/U	482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
R322	/U	482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
R323		482211190918	CHIP 4.7kΩ ±5%	NI05472110
R352	/N,/S	482211190896	CHIP 100kΩ ±5% 1/10W	NI05104110
R353	/N,/S	482211710834	CHIP 47kΩ ±5% 1/10W	NI05473110
R355	/N,/S	482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
R502		482211711449	CHIP 2.2kΩ ±5% 1/10W	NI05222110
R504		482211190918	CHIP 4.7kΩ ±5% 1/10W	NI05472110
R505		482205120102	CHIP 1kΩ ±5% 1/10W	NI05102110
R506		482205120102	CHIP 1kΩ ±5% 1/10W	NI05102110
R507		482211190925	CHIP 68kΩ ±5% 1/10W	NI05683110
R508	/K,/U	482211710834	CHIP 47kΩ ±5% 1/10W	NI05473110
R509		482205120223	CHIP 22kΩ ±5% 1/10W	NI05223110
R510		482211190918	CHIP 4.7kΩ ±5% 1/10W	NI05472110
R511		482205120822	CHIP 8.2kΩ ±5% 1/10W	NI05822110
R513		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
R515		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
R517	/N,/S	482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RA01		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RA02		482211190896	CHIP 100kΩ ±5% 1/10W	NI05104110
RA03	/N	482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RA04	/N	482205120154	CHIP 150kΩ ±5% 1/10W	NI05154110
RA06	/N	482211190896	CHIP 100kΩ ±5% 1/10W	NI05104110
RA07	/N	482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RA08	/N	482205120154	CHIP 150kΩ ±5% 1/10W	NI05154110
RA09	/N	482211711449	CHIP 2.2kΩ ±5% 1/10W	NI05222110
RA10	/N	482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RA11		482210011351	TRIM. 10kΩ RH0638CJ4R	RA01030780
RA12	/K,/S,/U	482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RA13	/K,/S,/U	482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RA14	/K,/S,/U	482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
			P101-SEMICONDUCTORS	
D201		482213033944	CHIP DIODE DAN202K	HZ20002210
D202		996500003403	CHIP ZENER DIODE 02CZ9.1-X	HZ30031050
D502	/N	996500003082	CHIP DIODE MA704WA 30V 30mA 1V	HZ20043020
D504		996500003401	CHIP DIODE RB425D	HZ20030210
DA01		482212550416	VARICAP SVC342-L	HD40009030
DA02	/N	996500003402	CHIP DIODE 1SS356-TW11	HZ21302210
DA03	/N	482212550416	VARICAP SVC342-L	HD40009030
DA04	/N	996500003402	CHIP DIODE 1SS356-TW11	HZ21302210
DA05		996500003400	CHIP DIODE MA716	HZ20030020
Q201		996500001369	IC LA1837 FM AM IF MPX	HC10384030
Q202		482213062294	TRS. 2SC1809S P 150MW 500MHz	HT318091P0
Q203		482213061227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
Q204		482213042594	DIG.TRS. DTC144ES UN4213 47K 47K	BA20002000
Q301	/K,/N,/S	482220983631	IC NJM4558MD	HC10035090
Q351	/N,/S	482220916175	IC LC72720L RDS DECODER	HC10385030
Q352	/N,/S	482213061227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
Q353	/N,/S	482213060588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000
Q354	/N,/S	482213041947	TRS. 2SC2458 2SC1740S 2SC3199 ETC	HT30001000
Q501		996500001370	IC LC72130	HC10394030
QA01	/N	482213041947	TRS. 2SC2458 2SC1740S 2SC3199 ETC.	HT30001000
QA02	/N	482213041947	TRS. 2SC2458 2SC1740S 2SC3199 ETC.	HT30001000
QA03	/N	482213061892	TRS. 2SD2144S U OR V	HT421442A0
QA04	/N	482213061227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
QA05	/N	482213061227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
QA06	/N	482213060588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000
			P101-MISCELLANEOUS	
⚠ A101		996500003387	VHF TUNER FM FRONT END EF415-G23	AV01202270
F201	/K,/N	482224270665	CER. FILTER SFE10.7MS3-A	FF11070620
F201	/U	482224270911	CER. FILTER SFF10.7MA8-A	FF11070610
F202		482224270665	CER. FILTER SFE10.7MS3-A	FF11070620
FA01			CER. FILTER SFZ450JL3 451K	FF10045410
J101		482229081632	TERMINAL YKD31-0215A FM AM ANT PAL TYPE	YT03030020
J105			PLUG SOCKET 12P 12MQ-ST-L	YP06902090
L201		482215763904	I.F.T. COIL FM DET M292BEAS-5968Z	LI70376010
L301		482215771731	M.P.X. COIL LPF-V10-A1 19 38kHz	LS10293020
L302		482215771731	M.P.X. COIL LPF-V10-A1 19 38kHz	LS10293020
L350				
⟆	/N,/S	482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
L356				
L359	/N,/S	482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
L501				
⟆		482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
L504				
LA01		482215763084	MW ANT COIL 280µH	LA10295170
LA02		482215770779	OSC. COIL MW	LO70013010
LA03	/N	482215752714	LW ANT COIL FOR LA1267	LA10295160
LA04	/N	482215770781	OSC. COIL LW OSC	LO70013020
LA05		482215753589	CHOKE COIL TL-8 393J	LC23960710
LA06		482214881095	I.F.T. COIL AM IFT K7-H5 FOR SFP450D	LI70033510
S301	/K	482227721712	SLIDE SWITCH SSSS92	SS02021470
X351	/N,/S	482224210857	CRYSTAL 4.332MHz AT-49	JX04003260
X501		482224272333	CRYSTAL AD0618CTB 7.2MHz	JX07001260
			P604-DOLBY DTS DSP CIRCUIT BOARD	
			P604-CAPACITORS	
C601		482212611703	CER. CHIP 0.01µF	DK98103300
C602		482212611703	CER. CHIP 0.01µF	DK98103300
C603		482212490353	ELECT. 100µF 10V	OA10701020
C607		482212611687	CER. CHIP 0.1µF	DK98104200
C608		482212233761	CER. CHIP 22pF 50V	DD95220300
C609		482212233761	CER. CHIP 22pF 50V	DD95220300
C610		482212611687	CER. CHIP 0.1µF	DK98104200
C611		482212490353	ELECT. 100µF 10V	OA10701020
C612		482212142327	FILM FILM CAP	DF15471350
C613		482212611687	CER. CHIP.1µF	DK98104200
C614		482212611687	CER. CHIP 0.1µF	DK98104200
C615		482212611687	CER. CHIP 0.1µF	DK98104200
C616		532212611583	CER. CHIP 0.01µF 50V	DK96103200
C617		482212611687	CER. CHIP 0.1µF	DK98104200
C618		482212611687	CER. CHIP 0.1µF	DK98104200
C619		482212490353	ELECT. 100µF 10V	OA10701020
C620		482212490353	ELECT. 100µF 10V	OA10701020
C621		482212611687	CER. CHIP 0.1µF	DK98104200
C622		482212490353	ELECT. 100µF 10V	OA10701020
C623		482212611687	CER. CHIP 0.1µF	DK98104200
C624		482212611687	CER. CHIP 0.1µF	DK98104200
C626		482212490353	ELECT. 100µF 10V	OA10701020
C691		482212231765	CER. CHIP 100pF 50V	DD95101300
C692		482212611687	CER. CHIP 0.1µF	DK98104200

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
C693		482212611687	CER. CHIP 0.1µF	DK98104200
C694		482212490353	ELECT. 100µF 10V	OA10701020
C695		482212231765	CER. 100pF 50V	DD95101300
CD01	8000	482212490353	ELECT.100µF 10V	OA10701020
CD02	8000	482212611687	CER. CHIP 0.1µF	DK98104200
CD03	8000	482212490353	ELECT.100µF 10V	OA10701020
CD04	8000	482212611687	CER. CHIP 0.1µF	DK98104200
CD05	8000	532212421731	ELECT.10µF 50V	OA10605020
CD06	8000	482212611687	CER. CHIP 0.1µF	DK98104200
CD07	8000	532212421731	ELECT.10µF 50V	OA10605020
CD08		482212611687	CER. CHIP 0.1µF	DK98104200
CD09		482212490353	ELECT. 100µF 10V	OA10701020
CD55		482212611703	CER. CHIP 0.01µF	DK98103300
CD59		482212611703	CER. CHIP 0.01µF	DK98103300
CD60		482212490353	ELECT. 100µF 10V	OA10701020
CD61		482212611703	CER. CHIP 0.01µF	DK98103300
CD62		482212611703	CER. CHIP 0.01µF	DK98103300
CD63		482212611703	CER. CHIP 0.01µF	DK98103300
CD66		482212611703	CER. CHIP 0.01µF	DK98103300
CD68		482212611703	CER. CHIP 0.01µF	DK98103300
CD69		482212611703	CER. CHIP 0.01µF	DK98103300
CD70		482212441535	ELECT. 100µF 25V	OA10702520
CD71		482212441535	ELECT. 100µF 25V	OA10702520
CD74		482212490353	ELECT. 100µF 10V	OA10701020
CD76		482212490353	ELECT. 100µF 10V	OA10701020
CD77		996500001318	ELECT. 220µF 10V	OA22701020
CH01	8000		FILM 1000pF J 50V	DF15102350
CH02	8000		FILM 1000pF J 50V	DF15102350
CH03		482211682951	RES. 33kΩ ±5% 1/6W	GG05333160
CH03	8000		FILM 1000pF J 50V	DF15102350
CH04		482211682951	RES. 33kΩ ±5% 1/6W	GG05333160
CH04	8000		FILM 1000pF J 50V	DF15102350
CH05	8000	482212110792	FILM 220pF ±10% 100V PP	OF15221540
CH06	8000	482212110792	FILM 220pF ±10% 100V PP	OF15221540
CH07	8000	482212110792	FILM 220pF ±10% 100V PP	OF15221540
CH08	8000	482212110792	FILM 220pF ±10% 100V PP	OF15221540
CH09	8000		FILM 1000pF J 50V	DF15102350
CH10	8000		FILM 1000pF J 50V	DF15102350
CH11		482212490362	ELECT. 22µF 50V	OA22605020
CH12		482212490362	ELECT. 22µF 50V	OA22605020
CH13		482212611687	CER. CHIP 0.1µF	DK98104200
CH14	8000	482212611687	CER. CHIP 0.1µF	DK98104200
CH15	8000	482212611687	CER. CHIP 0.1µF	DK98104200
CH16		482212611687	CER. CHIP 0.1µF	DK98104200
CH21		482212412404	ELECT. 220µF 16V	OA22701620
CH22		482212412404	ELECT. 220µF 16V	OA22701620
CH23		482212611687	CER. CHIP 0.1µF	DK98104200
CH24		482212611687	CER. CHIP 0.1µF	DK98104200
CH25		482212210172	CER. CHIP 220pF 50V	DK96221300
CH26		482212210172	CER. CHIP 220pF 50V	DK96221300
CH29	7000	482212233777	CER. CHIP 47pF RH 50	DD95470300
CH30	7000	482212233777	CER. CHIP 47pF RH 50	DD95470300
CH31	8000	482212233777	CER. CHIP 47pF RH 50	DD95470300
CH32	8000	482212233777	CER. CHIP 47pF RH 50	DD95470300
CJ01		532212421731	ELECT. 10µF 50V	OA10605020
CJ02		532212421731	ELECT. 10µF 50V	OA10605020
CJ13		532212421731	ELECT. 10µF 50V	OA10605020
CJ14		532212421731	ELECT. 10µF 50V	OA10605020
CJ17		482212210172	CER. CHIP 220pF 50V	DK96221300
CJ18		482212210172	CER. CHIP 220pF 50V	DK96221300
CJ30		482212611687	CER. CHIP 0.1µF	DK98104200
CJ33	7000	532212421731	ELECT. 10µF 50V	OA10605020
CJ34	7000	532212421731	ELECT. 10µF 50V	OA10605020
CJ35		482212611687	CER. CHIP 0.1µF	DK98104200
CJ51	8000		FILM 0.001µF J M 50V	DF15102350
CJ52	8000		FILM 0.27µF J 50V	DF15274350

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CJ53	8000		FILM 0.001µF J M 50V	DF15102350
CJ54	8000		FILM 0.27µF J 50V	DF15274350
CJ55	8000	482212110792	FILM 220pF ±10% 100V PP	OF15221540
CJ56	8000		FILM 0.022µF J M 50V	DF15223350
CJ59	8000	482212110792	FILM 220pF ±10% 100V PP	OF15221540
CJ60	8000		FILM 0.022µF J M 50V	DF15223350
CJ65		482212110792	FILM 220pF	OF15221540
CJ65	8000		FILM 0.001µF J M 50V	DF15102350
CJ66		482212611568	CER. 470pF 50V	DK96471300
CJ67		482212611687	CER. CHIP 0.1µF	DK98104200
CJ68		482212611687	CER. CHIP 0.1µF	DK98104200
CJ69		532212421731	ELECT. 10µF 50V	OA10605020
CJ70		532212421731	ELECT. 10µF 50V	OA10605020
CJ71		482212490353	ELECT. 100µF 10V	OA10701020
CJ72		482212490353	ELECT. 100µF 10V	OA10701020
CJ73		482212611703	CER. CHIP 0.01µF	DK98103300
CJ74		482212611703	CER. CHIP 0.01µF	DK98103300
CJ75		482212210172	CER. CHIP 220pF 50V	DK96221300
CJ76		482212210172	CER. CHIP 220pF 50V	DK96221300
CJ77		532212421731	ELECT. 10µF 50V	OA10605020
CJ78		482212210172	CER. CHIP 220pF 50V	DK96221300
CJ79		482212210172	CER. CHIP 220pF 50V	DK96221300
CJ80		482212210172	CER. CHIP 220pF 50V	DK96221300
CJ83		482211141305	RES. 0Ω	GD05000140
CJ84		482211141305	RES. 0Ω	GD05000140
CJ85		532212421731	ELECT. 10µF 50V	OA10605020
CJ86		482212210172	CER. CHIP 220pF 50V	DK96221300
CJ87		532212421731	ELECT. 10µF 50V	OA10605020
CJ87	8000	482212441539	ELECT.47µF 16V	OA47601620
CJ88		532212421731	ELECT. 10µF 50V	OA10605020
CJ89		482212233777	CER. CHIP 47pF RH 50	DD95470300
CJ90		482212233777	CER. CHIP 47pF RH 50	DD95470300
CJ91	8000	482212441539	ELECT. 47µF 16V	OA47601620
CJ92	8000	532212421731	ELECT. 10µF 50V	OA10605020
CJ93	8000	482212233777	CER. CHIP 47pF RH 50	DD95470300
CK01	/K,/N,/S	532212421731	ELECT. 10µF 50V RA-2	OA10605020
CK01	/U	532212421731	ELECT. 10µF 50V RA-2	OA10605020
CK02	/K,/N,/S	532212421731	ELECT. 10µF 50V RA-2	OA10605020
CK02	/U,/N,/S	532212421731	ELECT. 10µF 50V RA-2	OA10605020
CK03		482212233753	CER. CHIP 150pF ±5% CG 50V	DD95151300
CK04		482212233753	CER. CHIP 150pF ±5% CG 50V	DD95151300
CK05		482212233777	CER. CHIP 47pF RH 50	DD95470300
CK06		482212233777	CER. CHIP 47pF RH 50	DD95470300
CK12		482212611687	CER. CHIP 0.1µF	DK98104200
CK13		532212421731	ELECT. 10µF 50V	OA10605020
CK14		532212421731	ELECT. 10µF 50V	OA10605020
CK15		482212490353	ELECT. 100µF 10V	OA10701020
CK16		482212611687	CER. CHIP 0.1µF	DK98104200
CK17		532212421731	ELECT. 10µF 50V	OA10605020
CK18				
ʃ		482212611687	CER. CHIP 0.1µF	DK98104200
CK21				
CK22		482212611568	CER. CHIP 470pF 50V	DK96471300
CK23		482212490353	ELECT. 100µF 10V	OA10701020
CK24		482212611687	CER. CHIP 0.1µF	DK98104200
CK25		482211141305	RES. 0Ω	GD05000140
CK26		482211141305	RES. 0Ω	GD05000140
CR01		482212611687	CER. CHIP 0.1µF	DK98104200
CR02		482212611687	CER. CHIP 0.1µF	DK98104200
CR03		482212611687	CER. CHIP 0.1µF	DK98104200
CR04		482212613837	CER. CHIP 0.1µF 50V	DK96104200
CR05		482212613837	CER. CHIP 0.1µF 50V	DK96104200
CR06		482212613837	CER. CHIP 0.1µF 50V	DK96104200
CR07		482212490353	ELECT. 100µF 10V	OA10701020
CR13		482212611687	CER. CHIP 0.1µF	DK98104200
CR14		482212611687	CER. CHIP 0.1µF	DK98104200
CR16		482212611687	CER. CHIP 0.1µF	DK98104200
CR17		482212490353	ELECT. 100µF 10V	OA10701020

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CR18		482212611687	CER. CHIP 0.1µF	DK98104200
CR20		532212611583	CER. CHIP 0.01µF 50V	DK96103200
CR21		532212611583	CER. CHIP 0.01µF 50V	DK96103200
CR22		482212611687	CER. CHIP 0.1µF	DK98104200
CR23		482212611687	CER. CHIP 0.1µF	DK98104200
CR24		482212611687	CER. CHIP 0.1µF	DK98104200
CR26		482212611703	CER. CHIP 0.01µF	DK98103300
CR27		482212611703	CER. CHIP 0.01µF	DK98103300
CR28		482212490353	ELECT. 100µF 10V	OA10701020
CR29		482212611687	CER. CHIP 0.1µF	DK98104200
CR30		532212611578	CER. CHIP 1000pF 50V	DK96102300
CR31		482212611687	CER. CHIP 0.1µF	DK98104200
CR33		482212611568	CER. CHIP 470pF 50V	DK96471300
CR34		482212613837	CER. CHIP 0.1µF 50V	DK96104200
CR35		482212611687	CER. CHIP 0.1µF	DK98104200
CR36		482212490353	ELECT. 100µF 10V	OA10701020
			P604-CAPACITORS (COMMON)	
C***			PLASTIC FILM CAPACITOR	
			±5% 50V : CH01-CH04[8000]	
			CH05 CH06 CH08-CH09[8000]	
			CH27 CH28 CJ05 CJ06 CJ09	
			CJ10 CJ51-CJ54[8000]	
			CJ56[8000] CJ59 CJ60[8000]	
			CJ61CJ62 CJ65[8000] CK07	
			CK08 CR19	
			P604-RESISTORS	
R601		482205130105	CHIP 1.0MΩ 1/16W	NN05105610
R602		482205130103	CHIP 10kΩ 1/16W	NN05103610
R603		482211682487	CHIP 0Ω 1/16W	NN05000610
R604		482211682487	CHIP 0Ω 1/16W	NN05000610
R605		482211682487	CHIP 0Ω 1/16W	NN05000610
R606		482205130103	CHIP 10kΩ 1/16W	NN05103610
R609		482205130103	CHIP 10kΩ 1/16W	NN05103610
R672		482211682487	CHIP 0Ω 1/16W	NN05000610
R691		482205130103	CHIP 10kΩ 1/16W	NN05103610
R692		482205130103	CHIP 10kΩ 1/16W	NN05103610
R694		482205130103	CHIP 10kΩ 1/16W	NN05103610
R695		482205130103	CHIP 10kΩ 1/16W	NN05103610
R697		482205130103	CHIP 10kΩ 1/16W	NN05103610
RD02	8000	482211682487	CHIP 0kΩ 1/16W	NN05000610
RD03	8000	482215710884	EMI FILTER BLM11A221S	FN31000010
RD04	8000	482205130103	CHIP 10kΩ 1/16W	NN05103610
RH01		482211683211	CHIP 1.8kΩ 1/16W	NN05182610
RH02		482211683211	CHIP 1.8kΩ 1/16W	NN05182610
RH03	8000	482211683211	CHIP 1.8kΩ 1/16W	NN05182610
RH04	8000	482211683211	CHIP 1.8kΩ 1/16W	NN05182610
RH05		482211713632	CHIP 100kΩ ±5% 1/16W	NN05104610
RH05	8000	482211683211	CHIP 1.8kΩ 1/16W	NN05182610
RH06		482211713632	CHIP 100kΩ ±5% 1/16W	NN05104610
RH06	8000	482211683211	CHIP 1.8kΩ 1/16W	NN05182610
RH07		482211682487	CHIP 0Ω 1/16W	NN05000610
RH07	8000	482211683211	CHIP 1.8kΩ 1/16W	NN05182610
RH08		482211682487	CHIP 0Ω 1/16W	NN05000610
RH08	8000	482211683211	CHIP 1.8kΩ 1/16W	NN05182610
RH09		482211683211	CHIP 1.8kΩ 1/16W	NN05182610
RH10		482211683211	CHIP 1.8kΩ 1/16W	NN05182610
RH11		482211682487	CHIP 0Ω 1/16W	NN05000610
RH11	8000	482211683211	CHIP 1.8kΩ 1/16W	NN05182610
RH12		482211682487	CHIP 0Ω 1/16W	NN05000610
RH12	8000	482211683211	CHIP 1.8kΩ 1/16W	NN05182610
RH13		482211682487	CHIP 0Ω 1/16W	NN05000610
RH13	8000	482205130472	CHIP 4.7kΩ 1/16W	NN05472610
RH14		482211682487	CHIP 0Ω 1/16W	NN05000610
RH14	8000	482205130472	CHIP 4.7kΩ 1/16W	NN05472610
RH15	7000	482211682487	CHIP 0Ω 1/16W	NN05000610
RH16	7000	482211682487	CHIP 0Ω 1/16W	NN05000610
RH17	8000	482211683819	CHIP 18kΩ 1/16W	NN05183610

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
RH18	8000	482211683819	CHIP 18kΩ 1/16W	NN05183610
RH19		482211712925	CHIP 47kΩ 1/16W	NN05473610
RH20		482211712925	CHIP 47kΩ 1/16W	NN05473610
RH21		482205130273	CHIP 27kΩ 1/16W	NN05273610
RH22		482205130273	CHIP 27kΩ 1/16W	NN05273610
RH23		482211712925	CHIP 47kΩ 1/16W	NN05473610
RH24		482211712925	CHIP 47kΩ 1/16W	NN05473610
RH25	8000	482205130123	CHIP 12kΩ 1/16W	NN05123610
RH26	8000	482205130123	CHIP 12kΩ 1/16W	NN05123610
RH27		482205130101	CHIP 100Ω 1/16W	NN05101610
RH28		482205130101	CHIP 100Ω 1/16W	NN05101610
RH29		482211683819	CHIP 18kΩ 1/16W	NN05183610
RH29	8000	482211682487	CHIP 0kΩ 1/16W	NN05000610
RH30		482211683819	CHIP 18kΩ 1/16W	NN05183610
RH30	8000	482211682487	CHIP 0kΩ 1/16W	NN05000610
RH33	8000	482205130274	CHIP 270kΩ 1/16W	NN05274610
RH34	8000	482205130274	CHIP 270kΩ 1/16W	NN05274610
RH35	7000	482211682487	CHIP 0Ω 1/16W	NN05000610
RH36	7000	482211682487	CHIP 0Ω 1/16W	NN05000610
RJ01		482211712925	CHIP 47kΩ 1/16W	NN05473610
RJ02		482211712925	CHIP 47kΩ 1/16W	NN05473610
RJ05		482205130222	CHIP 2.2kΩ 1/16W	NN05222610
RJ06		482205130222	CHIP 2.2kΩ 1/16W	NN05222610
RJ09		482205130222	CHIP 2.2kΩ 1/16W	NN05222610
RJ10		482205130222	CHIP 2.2kΩ 1/16W	NN05222610
RJ13		482205130153	CHIP 15kΩ 1/16W	NN05153610
RJ14		482205130153	CHIP 15kΩ 1/16W	NN05153610
RJ17		482211683819	CHIP 18kΩ 1/16W	NN05183610
RJ18		482211683819	CHIP 18kΩ 1/16W	NN05183610
RJ21		482211712925	CHIP 47kΩ 1/16W	NN05473610
RJ22		482211712925	CHIP 47kΩ 1/16W	NN05473610
RJ25		482205130221	CHIP 220Ω 1/16W	NN05221610
RJ26		482205130221	CHIP 220Ω 1/16W	NN05221610
RJ29		482211712925	CHIP 47kΩ 1/16W	NN05473610
RJ30		482211712925	CHIP 47kΩ 1/16W	NN05473610
RJ33		482205130222	CHIP 2.2kΩ 1/16W	NN05222610
RJ34		482205130222	CHIP 2.2kΩ 1/16W	NN05222610
RJ35		482205130105	CHIP 1.0MΩ 1/16W	NN05105610
RJ36		482205130105	CHIP 1.0MΩ 1/16W	NN05105610
RJ43	8000	482211682487	CHIP 0kΩ ±5% 1/16W	NN05000610
RJ44	8000	482211682487	CHIP 0kΩ ±5% 1/16W	NN05000610
RJ45		482205130102	CHIP 1kΩ 1/16W	NN05102610
RJ45	8000	482205130222	CHIP 2.2kΩ ± 5% 1/16W	NN05222610
RJ46		482205130103	CHIP 10kΩ 1/16W	NN05103610
RJ47		482205130101	CHIP 100Ω 1/16W	NN05101610
RJ48		482211712925	CHIP 47kΩ 1/16W	NN05473610
RJ51	7000	482205130103	CHIP 10kΩ 1/16W	NN05103610
RJ54	8000	482205130223	CHIP 22kΩ ± 5% 1/16W	NN05223610
RJ55		482205130222	CHIP 2.2kΩ 1/16W	NN05222610
RJ55	8000	482205130332	CHIP 3.3kΩ 1/16W	NN05332610
RJ56		482205130273	CHIP 27kΩ 1/16W	NN05273610
RJ56	8000	482205130223	CHIP 22kΩ ± 5% 1/16W	NN05223610
RJ57		482211682487	CHIP 0Ω 1/16W	NN05000610
RJ57	8000	482205130332	CHIP 3.3kΩ 1/16W	NN05332610
RJ58		482211682487	CHIP 0Ω 1/16W	NN05000610
RJ58	8000	482205130223	CHIP 22kΩ ± 5% 1/16W	NN05223610
RJ59		482211682487	CHIP 0Ω 1/16W	NN05000610
RJ59	8000	482205130332	CHIP 3.3kΩ 1/16W	NN05332610
RJ60		482211682487	CHIP 0Ω 1/16W	NN05000610
RJ60	8000	482205130223	CHIP 22kΩ ± 5% 1/16W	NN05223610
RJ61		482205130222	CHIP 2.2kΩ 1/16W	NN05222610
RJ61	8000	482205130332	CHIP	NN05332610
RJ62		482205130273	CHIP 27kΩ 1/16W	NN05273610
RJ62	8000	482205130223	CHIP 22kΩ ± 5% 1/16W	NN05223610
RJ63		482205130153	CHIP 15kΩ ±5% 1/16W	NN05153610
RJ63	8000	482211682487	CHIP 0kΩ 1/16W	NN05000610
RJ64		482211682487	CHIP 0Ω 1/16W	NN05000610
RJ65		482211712925	CHIP 47kΩ 1/16W	NN05473610
RJ65	8000	482205130224	CHIP 220kΩ 1/16W	NN05224610

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
RJ67		482205130221	CHIP 220Ω 1/16W	NN05221610
RJ67	8000	482205130392	CHIP 3.9kΩ 1/16W	NN05392610
RJ68		482205130471	CHIP 470Ω ±5% 1/16W	NN05471610
RJ69		482205130273	CHIP 27kΩ ±5% 1/16W	NN05273610
RJ70		482205130273	CHIP 27kΩ ±5% 1/16W	NN05273610
RJ71		482211712925	CHIP 47kΩ 1/16W	NN05473610
RJ72		482211712925	CHIP 47kΩ 1/16W	NN05473610
RJ73		482211682487	CHIP 0Ω 1/16W	NN05000610
RJ74		482211682487	CHIP 0Ω 1/16W	NN05000610
RJ75		482205130333	CHIP 33kΩ ±5% 1/16W	NN05333610
RJ76		482205130333	CHIP 33kΩ ±5% 1/16W	NN05333610
RJ77		482205130683	CHIP 68kΩ 1/16W	NN05683610
RJ78		482205130683	CHIP 68kΩ 1/16W	NN05683610
RJ79		482211713632	CHIP 100kΩ 1/16W	NN05104610
RJ79	8000	482205130332	CHIP 3.3kΩ 1/16W	NN05332610
RJ80		482205130474	CHIP 470kΩ 1/16W	NN05474610
RJ80	8000	482205130223	CHIP 22kΩ ± 5% 1/16W	NN05223610
RJ81		482205130101	CHIP 100Ω 1/16W	NN05101610
RJ82		482211712925	CHIP 47kΩ 1/16W	NN05473610
RJ85		482205130103	CHIP 10kΩ 1/16W	NN05103610
RJ85	8000	482211683819	CHIP 18kΩ 1/16W	NN05183610
RJ89		482205130103	CHIP 10kΩ ±5% 1/16W	NN05103610
RJ90		482205130123	CHIP 12kΩ ±5% 1/16W	NN05123610
RJ91		482205130222	CHIP 2.2kΩ 1/16W	NN05222610
RJ92		482205130222	CHIP 2.2kΩ 1/16W	NN05222610
RJ93		482211682487	CHIP 0Ω ±5% 1/16W	NN05000610
RJ93	8000	482205130103	CHIP 10kΩ ±5% 1/16W	NN05103610
RJ94	8000	482205130333	CHIP 33kΩ ±5% 1/16W	NN05333610
RK01		482205130472	CHIP 4.7kΩ 1/16W	NN05472610
RK02		482205130472	CHIP 4.7kΩ 1/16W	NN05472610
RK03		482205130272	CHIP 2.7kΩ 1/16W	NN05272610
RK04		482205130272	CHIP 2.7kΩ 1/16W	NN05272610
RK05				
∫		482205130103	CHIP 10kΩ 1/16W	NN05103610
RK08				
RK09				
∫		482205130331	CHIP 330Ω 1/16W	NN05331610
RK12				
RK15		482205130472	CHIP 4.7kΩ 1/16W	NN05472610
RK16		482205130472	CHIP 4.7kΩ 1/16W	NN05472610
RK17		482211682487	CHIP 0Ω 1/16W	NN05000610
RK18		482211682487	CHIP 0Ω 1/16W	NN05000610
RK19	7000	482211682487	CHIP 0Ω 1/16W	NN05000610
RK20	8000	482211682487	CHIP 0kΩ 1/16W	NN05000610
RK22		482211712139	CHIP 22Ω 1/16W	NN05220610
RK23		482211682487	CHIP 0Ω 1/16W	NN05000610
RK24		482211682487	CHIP 0Ω 1/16W	NN05000610
RK25		482205130562	CHIP 5.6kΩ 1/16W	NN05562610
RK26		482205130562	CHIP 5.6kΩ 1/16W	NN05562610
RK27		482205130272	CHIP 2.7kΩ 1/16W	NN05272610
RK28		482205130272	CHIP 2.7kΩ 1/16W	NN05272610
RK29		482205130472	CHIP 4.7kΩ 1/16W	NN05472610
RK30		482205130472	CHIP 4.7kΩ 1/16W	NN05472610
RK31		482205130105	CHIP 1.0MΩ 1/16W	NN05105610
RR01		482205130759	CHIP 75Ω 1/16W	NN05750610
RR02		482205130759	CHIP 75Ω 1/16W	NN05750610
RR03		482205130759	CHIP 75Ω 1/16W	NN05750610
RR04		482205130102	CHIP 1kΩ 1/16W	NN05102610
RR05		482205130102	CHIP 1kΩ 1/16W	NN05102610
RR06		482205130102	CHIP 1kΩ 1/16W	NN05102610
RR07		482211713632	CHIP 100kΩ 1/16W	NN05104610
RR08		482211713632	CHIP 100kΩ 1/16W	NN05104610
RR09		482211713632	CHIP 100kΩ 1/16W	NN05104610
RR10		482205130472	CHIP 4.7kΩ 1/16W	NN05472610
RR11		482205130472	CHIP 4.7kΩ 1/16W	NN05472610
RR12		482205130472	CHIP 4.7kΩ 1/16W	NN05472610
RR13		482205130103	CHIP 10kΩ 1/16W	NN05103610
RR14		482205130103	CHIP 10kΩ 1/16W	NN05103610

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
RR15		482205130103	CHIP 10kΩ 1/16W	NN05103610
RR16		482205130759	CHIP 75Ω 1/16W	NN05750610
RR17		482205130339	CHIP 33Ω 1/16W	NN05330610
RR18		482205130339	CHIP 33Ω 1/16W	NN05330610
RR19		482205130103	CHIP 10kΩ 1/16W	NN05103610
RR20		482205130103	CHIP 10kΩ 1/16W	NN05103610
RR21		482211682487	CHIP 0Ω 1/16W	NN05000610
RR22		482211682487	CHIP 0Ω 1/16W	NN05000610
RR23		482211682487	CHIP 0Ω 1/16W	NN05000610
RR24		482211682487	CHIP 0Ω 1/16W	NN05000610
RR25		482205130391	CHIP 390Ω 1/16W	NN05391610
RR26		482205130759	CHIP 75Ω 1/16W	NN05750610
RR27		482205130103	CHIP 10kΩ 1/16W	NN05103610
RR28		482211682487	CHIP 0Ω 1/16W	NN05000610
RR29		482211682487	CHIP 0Ω 1/16W	NN05000610
RR30		482211682487	CHIP 0Ω 1/16W	NN05000610
RR31		482205130103	CHIP 10kΩ 1/16W	NN05103610
RR33		482211682487	CHIP 0Ω 1/16W	NN05000610
RR81				
∫		482205130103	CHIP 10kΩ 1/16W	NN05103610
RR84				
RR96		482211682487	CHIP 0Ω 1/16W	NN05000610
RR97		482211682487	CHIP 0Ω 1/16W	NN05000610
RR98		482211682487	CHIP 0Ω 1/16W	NN05000610
			P604-SEMICONDUCTORS	
D601		482213080522	CHIP DIODE 1SS300 DAP202U	HZ21006000
DD01	8000	482213080522	CHIP DIODE 1SS300 DAP202U	HZ21006000
DR01		482213081324	CHIP DIODE 1SS302	HZ20018050
DR02		482213081324	CHIP DIODE 1SS302	HZ20018050
DR03		482213081324	CHIP DIODE 1SS302	HZ20018050
Q601		996500001321	IC YSS912	HC10014640
			DTS AC-3 DECODER	
Q602		996500002109	IC TC7W53FU	HC007105K0
			LMOSLOGIC AMPX	
Q604		996500001324	IC 1M SRAM 8X128K	HC10088000
			15OR20 NS	
Q691		996500003399	MICROPROCESSOR SURR.	HU321JN00F
			µPD78018FGC-575-AB8	
QD01	8000	996500001319	AD1855 DAC 24BIT 96kHz	HC10013840
QD51		996500003397	IC BA033FP 3.3V 1A	HC96J33210
			PD=1W VD=0.3V	
QH01		482220917155	IC NJM2068M	HC10102090
QH01	8000	482220991175	IC NJM2114M OP AMP FLAT	HC10175090
QH02	8000	482220991175	IC NJM2114M OP AMP FLAT	HC10175090
QJ01		482220917155	IC NJM2068M	HC10102090
QJ02		482220917155	IC NJM2068M	HC10102090
QJ04		482220917155	IC NJM2068M	HC10102090
QJ05		482220917155	IC NJM2068M	HC10102090
QJ06		482213063601	CHIP TRS. 2SC4213	HX342132A0
QJ07		482213063601	CHIP TRS. 2SC4213	HX342132A0
QJ08		482213061903	DIG.TRS. DTA114EU	BA10026210
QJ09		482213061903	DIG.TRS. DTA114EU	BA10026210
QJ11		482213063601	CHIP TRS. 2SC4213	HX342132A0
QJ12		482213063601	CHIP TRS. 2SC4213	HX342132A0
QK01		482220914615	IC NJM2115M	HC10172090
QK02		482220914615	IC NJM2115M	HC10172090
QK04		996500003390	IC AK4526	HC10022480
			2CH.ADC & 6CH.DAC	
QK05		482213063601	CHIP TRS. 2SC4213	HX342132A0
QK06		482213063601	CHIP TRS. 2SC4213	HX342132A0
QK07		482213061903	DIG.TRS. DTA114EU	BA10026210
QR01		996500001341	IC CS8414	HC10004880
			DINTERFACE RECEIVER	
QR02		996500001342	IC TC74HC151AF	HC715100Z0
QR03		996500001342	IC TC74HC151AF	HC715100Z0
QR04		482220930426	IC 74HC00 CMOS FLAT	HC700000Z0
QR06		482220970988	IC 74HC125	HC712500B0
QR07		482220931568	IC 74HCU04 CMOS FLAT	HC700400Z0

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
QR08		482220933519	IC TC7W74F	HC10381050
			P604-MISCELLANEOUS	
J691			PLUG SOCKET 12P 12MQ-ST-L	YP06902090
JD01			PLUG SOCKET 12P 12MQ-ST-L	YP06902090
JR01		482226510682	TERMINAL RCA 3P BLK NI	YT02030420
JR01	8000		TERMINAL RCA 3P BLK AU	YT02030610
JR04		482221811487	OPT. CONNECTOR GP1F32R OPTICAL RECIVER	YJ15000150
JR05		482221811487	OPTICAL RECIVER GP1F32R	YJ15000150
JR06	8000	482221811487	OPTICAL RECIVER GP1F32R	YJ15000150
JR07		482226731729	TERMINAL RCA 1P BLK NI	YT02010780
JR07	8000	482229081638	TERMINAL RCA 1P BLK NI	YT02010790
JR08		482226731369	OPTICAL OUTPUT GP1F32T	YJ15000090
L601		482224273843	EMI FILTER DSS306-91-F-223Z	FM12223010
L691		482215710884	FERRITE INDUCTOR BLM11	FN31000010
L693				
⟆		482215710884	FERRITE INDUCTOR BLM11	FN31000010
L697				
LD01		482252610584	FERRITE ZBF-503D-00TA	FC90090010
LD02	8000	482252610584	FERRITE ZBF-503D-00TA	FC90090010
LD03	8000	482252610584	FERRITE ZBF-503D-00TA	FC90090010
LD55		482224273843	EMI FILTER DSS306-91-F-223Z	FM12223010
LD58		482224273843	EMI FILTER DSS306-91-F-223Z	FM12223010
LH01		482252610584	FERRITE ZBF-503D-00TA	FC90090010
LH02		482252610584	FERRITE ZBF-503D-00TA	FC90090010
LK01		482252610584	FERRITE ZBF-503D-00TA	FC90090010
LK02		482252610584	FERRITE ZBF-503D-00TA	FC90090010
LK03		482252610584	FERRITE ZBF-503D-00TA	FC90090010
LR01		482214260422	PULSE TRNSF. TPS247MN-0386AN	TP41042030
LR02		482224273843	EMI FILTER DSS306-91-F-223Z	FM12223010
X601		482224210851	CRYSTAL 12.288MHz AT-49	JX12013260
X691		482224281727	SERAMIC VIB. CST10.0MTW-TF01 10.0MHz	FQ01005010
			P704-5CH POWER AMP CIRCUIT BOARD	
			P704-CAPACITORS	
C701		482212422275	ELECT. 47µF M 10V RA-2	OA47601020
C702		482212422275	ELECT. 47µF M 10V RA-2	OA47601020
C705	/N	482212170437	FILM 1000pF J 100V APSV	OF15102540
C706	/N	482212170437	FILM 1000pF J 100V APSV	OF15102540
C707		482212422276	ELECT. 47µF M 50V RA-2	OA47605020
C708		482212422276	ELECT. 47µF M 50V RA-2	OA47605020
C709		482212231205	CER. 47pF J CH 50V BLK	DD15470300
C710		482212231205	CER. 47pF J CH 50V BLK	DD15470300
C711	/N	996500003406	FILM 150pF J 100V APSV	OF15151540
C712	/N	996500003406	FILM 150pF J 100V APSV	OF15151540
C713		482212490362	ELECT. 22µF M 50V RA-2	OA22605020
C714		482212490362	ELECT. 22µF M 50V RA-2	OA22605020
C715				
⟆		482212423068	ELECT. 220µF 63V M RA-2	OA22706320
C718				
C719		482212411533	ELECT. 1µF100V RA-2	OA10510020
C720		482212411533	ELECT. 1µF100V RA-2	OA10510020
C725				
⟆		482212231211	CER. 100pF 500V	DK16101550
C728				
CP01		482212422275	ELECT. 47µF M 10V RA-2	OA47601020
CP02		482212422275	ELECT. 47µF M 10V RA-2	OA47601020
CP07		482212422276	ELECT. 47µF M 50V RA-2	OA47605020
CP08		482212422276	ELECT. 47µF M 50V RA-2	OA47605020
CP09		482212231205	CER. 47pF J CH 50V BLK	DD15470300
CP10		482212231205	CER. 47pF J CH 50V BLK	DD15470300
CP13		482212490362	ELECT. 22µF M 50V RA-2	OA22605020
CP14		482212490362	ELECT. 22µF M 50V RA-2	OA22605020

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CP15				
⟆		482212423068	ELECT. 220µF 63V M RA-2	OA22706320
CP18				
CP19		482212411533	ELECT. 1µF100V RA-2	OA10510020
CP20		482212411533	ELECT. 1µF100V RA-2	OA10510020
CP25				
⟆		482212231211	CER. 100pF 500V	DK16101550
CP28				
CT01		482212422275	ELECT. 47µF M 10V RA-2	OA47601020
CT05	/N	482212170437	FILM 1000pF J 100V APSV	OF15102540
CT07		482212422276	ELECT. 47µF M 50V RA-2	OA47605020
CT09		482212231205	CER. 47pF J CH 50V BLK	DD15470300
CT11	/N	996500003406	FILM 150pF J 100V APSV	OF15151540
CT13		482212490362	ELECT. 22µF M 50V RA-2	OA22605020
CT15		482212423068	ELECT. 220µF 63V M RA-2	OA22706320
CT17		482212423068	ELECT. 220µF 63V M RA-2	OA22706320
CT19		482212411533	ELECT. 1µF100V RA-2	OA10510020
CT25		482212231211	CER. 100pF 500V	DK16101550
CT27		482212231211	CER. 100pF 500V	DK16101550
			P704-CAPACITORS (COMMON)	
C***			PLASTIC FILM CAPACITOR ±5% 50V : C703 C704 C705-C706[/K,/U] C711-C712[/K,/U] CP03-CP06 CP11 CP12 CP21-CP24 CT03 CT05[/K,/U] CT11K,/U]	
C***			HIGH DIELECTRIC CONSTANT CER. CAPACITOR ±10% 50V : C721-C724 CT21 CT23	
			P704-RESISTORS	
⚠ R709		482205022202	2.2kΩ ±5% 1/6W	GG05222160
⚠ R710		482205022202	2.2kΩ ±5% 1/6W	GG05222160
⚠ R713		482205022202	2.2kΩ ±5% 1/6W	GG05222160
⚠ R714		482205022202	2.2kΩ ±5% 1/6W	GG05222160
⚠ R727				
⟆		482205026809	68Ω 1/6W	GG05680160
⚠ R732				
R737		996500001566	TRIM. VAR. 2.2kΩ VERT	RA02220760
R738		996500001566	TRIM. VAR. 2.2kΩ VERT	RA02220760
⚠ R739				
⟆		482205022209	22Ω J 1/4W	GG05220140
⚠ R742				
⚠ R743				
⟆		482205210101	100Ω 1/6W	GG05101160
⚠ R746				
R747				
⟆			JUMPER	75060501P0
R750				
⚠ R751		482205021801	180Ω J 1/4W	GG05181140
⚠ R752		482205021801	180Ω J 1/4W	GG05181140
⚠ R759		482205210122	1.2kΩ ±5% 1/6W	GG05122160
⚠ R760		482205210122	1.2kΩ ±5% 1/6W	GG05122160
⚠ R761		482211380612	FIXED 0.18Ω K 5W X2 RGC55 W/T.P	BZ10182020
R762		482211380612	FIXED 0.18Ω K 5W X2 RGC55 W/T.P	BZ10182020
⚠ R763		482211683929	220Ω J 1/4W	GG05221140
⚠ R764		482211683929	220Ω J 1/4W	GG05221140
R765		482205310109	10Ω ±5% 1W	GA05100010
R766		482205310109	10Ω ±5% 1W	GA05100010
R767		996500003407	TRIM. VAR. 22K VERTICAL	RA02230760
R768		996500003407	TRIM. VAR. 22K VERTICAL	RA02230760
⚠ R773				
⟆		482205210478	4.7Ω ±5% 1/6W	GG05047160
⚠ R776				

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
⚠ RP09		482205022202	2.2kΩ ±5% 1/6W	GG05222160
⚠ RP10		482205022202	2.2kΩ ±5% 1/6W	GG05222160
⚠ RP13		482205022202	2.2kΩ ±5% 1/6W	GG05222160
⚠ RP14		482205022202	2.2kΩ ±5% 1/6W	GG05222160
⚠ RP27		482205210681	680Ω 1/6W	GG05681160
⚠ RP28		482205210681	680Ω 1/6W	GG05681160
⚠ RP29				
ʃ		482205026809	68Ω 1/6W	GG05680160
⚠ RP32				
RP37		996500001566	TRIM. VAR. 2.2kΩ VERT	RA02220760
RP38		996500001566	TRIM. VAR. 2.2kΩ VERT	RA02220760
⚠ RP39				
ʃ		482205022209	22Ω J 1/4W	GG05220140
⚠ RP42				
⚠ RP43				
ʃ		482205210101	100Ω 1/6W	GG05101160
⚠ RP46				
RP47				
ʃ			JUMPER	75060501P0
RP50				
⚠ RP51		482205021801	180Ω J 1/4W	GG05181140
⚠ RP52		482205021801	180Ω J 1/4W	GG05181140
⚠ RP59		482205210122	1.2kΩ ±5% 1/6W	GG05122160
⚠ RP60		482205210122	1.2kΩ ±5% 1/6W	GG05122160
RP61		482211380612	FIXED 0.18Ω K 5W X2 RGC55 W/T.P	BZ10182020
RP62		482211380612	FIXED 0.18Ω K 5W X2 RGC55 W/T.P	BZ10182020
⚠ RP63		482211683929	220Ω J 1/4W	GG05221140
⚠ RP64		482211683929	220Ω J 1/4W	GG05221140
RP65		482205310109	10Ω ±5% 1W	GA05100010
RP66		482205310109	10Ω ±5% 1W	GA05100010
RP67		996500003407	TRIM. VAR. 22kΩ VERTICAL	RA02230760
RP68		996500003407	TRIM. VAR. 22kΩ VERTICAL	RA02230760
⚠ RP73				
ʃ		482205210478	4.7Ω ±5% 1/6W	GG05047160
⚠ RP76				
⚠ RT09		482205022202	2.2kΩ ±5% 1/6W	GG05222160
⚠ RT13		482205022202	2.2kΩ ±5% 1/6W	GG05222160
⚠ RT27		482205210681	680Ω 1/6W	GG05681160
⚠ RT29		482205026809	68Ω 1/6W	GG05680160
⚠ RT31		482205026809	68Ω 1/6W	GG05680160
RT37		996500001566	TRIM. VAR. 2.2kΩ VERT	RA02220760
⚠ RT39		482205022209	22Ω J 1/4W	GG05220140
⚠ RT41		482205022209	22Ω J 1/4W	GG05220140
⚠ RT43		482205210101	100Ω 1/6W	GG05101160
⚠ RT45		482205210101	100Ω 1/6W	GG05101160
RT47			JUMPER	75060501P0
RT49			JUMPER	75060501P0
⚠ RT51		482205021801	180Ω J 1/4W	GG05181140
⚠ RT59		482205210122	1.2kΩ ±5% 1/6W	GG05122160
⚠ RT61		482211380612	FIXED 0.18Ω K 5W X2 RGC55 W/T.P	BZ10182020
⚠ RT63		482211683929	220Ω J 1/4W	GG05221140
RT65		482205310109	10Ω ±5% 1W	GA05100010
RT67		996500003407	TRIM. VAR. 22K VERTICAL	RA02230760
⚠ RT73		482205210478	4.7Ω ±5% 1/6W	GG05047160
⚠ RT75		482205210478	4.7Ω ±5% 1/6W	GG05047160
			P74-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RES. ±5% 1/6W : R701-R708 R712 R712 R715-R726 R733-R736 R753-R772 RP01-RP08 RP11 RP12 RP15-RP26 RP33-RP36 RP53-RP72 RT01 RT03 RT05 RT11 RT15 RT17 RT19 RT21 RT23 RT25 RT33 RT35 RT53 RT55 RT57 RT69 RT71	

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			P704-SEMICONDUCTORS	
D701				
ʃ		482213032362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
D704				
D705				
ʃ		482213080837	DIODE HSS81TD 150V 150mA	HD20027010
D708				
D709				
ʃ		482213083142	ZENER DIODE 6.2V	HD30621000
D712				
D713		482213080837	DIODE HSS81TD 150V 150mA	HD20027010
D714		482213080837	DIODE HSS81TD 150V 150mA	HD20027010
D715				
ʃ		482213032362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
D718				
DP01				
ʃ		482213032362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DP04				
DP05				
ʃ		482213080837	DIODE HSS81TD 150V 150mA	HD20027010
DP08				
DP09				
ʃ		482213083142	ZENER DIODE 6.2V	HD30621000
DP12				
DP13		482213080837	DIODE HSS81TD 150V 150mA	HD20027010
DP14		482213080837	DIODE HSS81TD 150V 150mA	HD20027010
ʃ				
DP17		482213032362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DP18				
DT01		482213032362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DT03		482213032362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DT05		482213080837	DIODE HSS81TD 150V 150mA	HD20027010
DT07		482213080837	DIODE HSS81TD 150V 150mA	HD20027010
DT09		482213083142	ZENER DIODE 6.2V	HD30621000
DT11		482213083142	ZENER DIODE 6.2V	HD30621000
DT13		482213080837	DIODE HSS81TD 150V 150mA	HD20027010
DT15		482213032362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DT17		482213032362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
Q701				
ʃ		482213042949	TRS. 2SA970 GR OR BL	HT109702A0
Q704				
Q705		482213042999	TRS. 2SA1145 O OR Y	HT111452A0
Q706		482213042999	TRS. 2SA1145 O OR Y	HT111452A0
Q707		482213043233	TRS. 2SC2240 GR OR BL	HT322402A0
Q708		482213043233	TRS. 2SC2240 GR OR BL	HT322402A0
Q709		532213061728	TRS. 2SA1360 O OR Y	HT113602A0
Q710		532213061728	TRS. 2SA1360 O OR Y	HT113602A0
Q711		532213061737	TRS. 2SC3423 O OR Y	HT334232A0
Q712		532213061737	TRS. 2SC3423 O OR Y	HT334232A0
Q713		482213060117	TRS. 2SC3419 Y 40V 0.8A PC=1.2W 5W	HT334191Y0
Q714		482213060117	TRS. 2SC3419 Y 40V 0.8A PC=1.2W 5W	HT334191Y0
Q715		482213063635	TRS. 2SC4793 O Y	HT347932A0
Q716		482213063635	TRS. 2SC4793 O Y	HT347932A0
Q717		482213063634	TRS. 2SA1837 O Y	HT118372A0
Q718		482213063634	TRS. 2SA1837 O Y	HT118372A0
Q719		482213043233	TRS. 2SC2240 GR OR BL	HT322402A0
Q720		482213043233	TRS. 2SC2240 GR OR BL	HT322402A0
⚠ Q721		482213011486	TRS. 2SC5200 R OR O 230V 15A 150W	HT352002A0
⚠ Q722		482213011486	TRS. 2SC5200 R OR O 230V 15A 150W	HT352002A0

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
⚠ Q723		482213063119	TRS. 2SA1943 R OR O 230V 15A 150W	HT119432A0
⚠ Q724		482213063119	TRS. 2SA1943 R OR O 230V 15A 150W	HT119432A0
QP01 ∫ QP04		482213042949	TRS. 2SA970 GR OR BL	HT109702A0
QP05		482213042999	TRS. 2SA1145 O OR Y	HT111452A0
QP06		482213042999	TRS. 2SA1145 O OR Y	HT111452A0
QP07		482213043233	TRS. 2SC2240 GR OR BL	HT322402A0
QP08		482213043233	TRS. 2SC2240 GR OR BL	HT322402A0
QP09		532213061728	TRS. 2SA1360 O OR Y	HT113602A0
QP10		532213061728	TRS. 2SA1360 O OR Y	HT113602A0
QP11		532213061737	TRS. 2SC3423 O OR Y	HT334232A0
QP12		532213061737	TRS. 2SC3423 O OR Y	HT334232A0
QP13		482213060117	TRS. 2SC3419 Y 40V 0.8A PC=1.2W 5W	HT334191Y0
QP14		482213060117	TRS. 2SC3419 Y 40V 0.8A PC=1.2W 5W	HT334191Y0
QP15		482213063635	TRS. 2SC4793 O Y	HT347932A0
QP16		482213063635	TRS. 2SC4793 O Y	HT347932A0
QP17		482213063634	TRS. 2SA1837 O Y	HT118372A0
QP18		482213063634	TRS. 2SA1837 O Y	HT118372A0
QP19		482213043233	TRS. 2SC2240 GR OR BL	HT322402A0
QP20		482213043233	TRS. 2SC2240 GR OR BL	HT322402A0
⚠ QP21		482213011486	TRS. 2SC5200 R OR O 230V 15A 150W	HT352002A0
⚠ QP22		482213011486	TRS. 2SC5200 R OR O 230V 15A 150W	HT352002A0
⚠ QP23		482213063119	TRS. 2SA1943 R OR O 230V 15A 150W	HT119432A0
⚠ QP24		482213063119	TRS. 2SA1943 R OR O 230V 15A 150W	HT119432A0
QT01		482213042949	TRS. 2SA970 GR OR BL	HT109702A0
QT03		482213042949	TRS. 2SA970 GR OR BL	HT109702A0
QT05		482213042999	TRS. 2SA1145 O OR Y	HT111452A0
QT07		482213043233	TRS. 2SC2240 GR OR BL	HT322402A0
QT09		532213061728	TRS. 2SA1360 O OR Y	HT113602A0
QT11		532213061737	TRS. 2SC3423 O OR Y	HT334232A0
QT13		482213060117	TRS. 2SC3419 Y 40V 0.8A PC=1.2W 5W	HT334191Y0
QT15		482213063635	TRS. 2SC4793 O Y	HT347932A0
QT17		482213063634	TRS. 2SA1837 O Y	HT118372A0
QT19		482213043233	TRS. 2SC2240 GR OR BL	HT322402A0
⚠ QT21		482213011486	TRS. 2SC5200 R OR O 230V 15A 150W	HT352002A0
⚠ QT23		482213063119	TRS. 2SA1943 R OR O 230V 15A 150W	HT119432A0
K709			TRS. KIT 2SA1360 2SC3423 PAIR O OR Y	HK136019C0
K710			TRS. KIT 2SA1360 2SC3423 PAIR O OR Y	HK136019C0
K715			TRS. KIT 2SA1837 2SC4793 HFE SELECTED RANK	HK183719C0
K716			TRS. KIT 2SA1837 2SC4793 HFE SELECTED RANK	HK183719C0
K721			TRS. KIT 2SA1943 2SC5200 RR OR OO PAIR	HK194319C0
K722			TRS. KIT 2SA1943 2SC5200 RR OR OO PAIR	HK194319C0
KP09			TRS. KIT 2SA1360 2SC3423 PAIR O OR Y	HK136019C0
KP10			TRS. KIT 2SA1360 2SC3423 PAIR O OR Y	HK136019C0
KP15			TRS. KIT 2SA1837 2SC4793 HFE SELECTED RANK	HK183719C0
KP16			TRS. KIT 2SA1837 2SC4793 HFE SELECTED RANK	HK183719C0
KP21			TRS. KIT 2SA1943 2SC5200 RR OR OO PAIR	HK194319C0
KP22			TRS. KIT 2SA1943 2SC5200 RR OR OO PAIR	HK194319C0
KT09			TRS. KIT 2SA1360 2SC3423 PAIR O OR Y	HK136019C0
KT15			TRS. KIT 2SA1837 2SC4793 HFE SELECTED RANK	HK183719C0
KT21			TRS. KIT 2SA1943 2SC5200 RR OR OO PAIR	HK194319C0
			P704-MISCELLANEOUS	
L701		482215770022	AIR COIL SPK CHOCK	ML08010030
L702		482215770022	AIR COIL SPK CHOCK	ML08010030
LP01		482215770022	AIR COIL SPK CHOCK	ML08010030
LP02		482215770022	AIR COIL SPK CHOCK	ML08010030
LT01		482215770022	AIR COIL SPK CHOCK	ML08010030
			P754-SPK TERMINAL IRCUIT BOARD	
			P754-CAPACITORS	
CN51	/N	482212230103	CER. 0.022µF Z 50V	DK18223310
CN52	/N	482212230103	CER. 0.022µF Z 50V	DK18223310
CN53		482212240617	CER. 0.1µF 50V	DD38104010
CN54		482212240617	CER. 0.1µF 50V	DD38104010
CN55	/N	482212230103	CER. 0.022µF Z 50V	DK18223310
CN56	/N	482212230103	CER. 0.022µF Z 50V	DK18223310
CN57		482212240617	CER. 0.1µF 50V	DD38104010
CN58		482212240617	CER. 0.1µF 50V	DD38104010
CN59	/N	482212230103	CER. 0.022µF Z 50V	DK18223310
CN60		482212240617	CER. 0.1µF 50V	DD38104010
			P754-MISCELLANEOUS	
JN61		482226511199	TERMINAL SPK 6P	YT01060020
JN62		482226511198	TERMINAL SPK 4P	YT01040790
			P904-RC-5 IN OUT DC-CONTROL CIRCUIT BOARD	
			P904-CAPACITORS	
C901		532212234098	CER. CHIP 0.01µF	DK56103300
C902		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
C903		532212234098	CER. CHIP 0.01µF	DK56103300
C904		482212441534	ELECT. 10µF M 25V RA-2	OA10602520
C905		532212234098	CER. CHIP 0.01µF	DK56103300
C906		482211190892	CHIP CHIP 40Ω ±5% 1/10W	NI05000110
C907		532212234098	CER. CHIP 0.01µF	DK56103300
C908		532212234098	CER. CHIP 0.01µF	DK56103300
C909		482211190892	CHIP CHIP 40Ω ±5% 1/10W	NI05000110
C910		532212234098	CER. CHIP 0.01µF	DK56103300
C911		482212441543	ELECT. 1µF M 50V RA-2	OA10505020
C912		532212234098	CER. CHIP 0.01µF	DK56103300
C913		532212234098	CER. CHIP 0.01µF	DK56103300
C914		482212441543	ELECT. 1µF M 50V RA-2	OA10505020
C915		532212234098	CER. CHIP 0.01µF	DK56103300
			P904-RESISTORS	
R901		482205120479	CHIP 47Ω ±5% 1/10W	NI05470110
R902		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
R903		482211711504	CHIP 270Ω ±5% 1/10W	NI05271110
R904		482205120153	CHIP 220Ω ±5% 1/10W	NI05221110
R905		482205120479	CHIP 47Ω ±5% 1/10W	NI05470110
R906		482205120332	CHIP 3.3kΩ ±5% 1/10W	NI05332110
R907		482211711449	CHIP 2.2kΩ ±5% 1/10W	NI05222110
R908		996500003408	VAR. RK09D111 20kΩ B	RK02031090
R909		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
R910		482211711449	CHIP 2.2kΩ ±5% 1/10W	NI05222110
R911		482205120332	CHIP 3.3kΩ ±5% 1/10W	NI05332110

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
R912		482211711449	CHIP 2.2kΩ ±5% 1/10W	NI05222110
R913		996500003408	VAR. RK09D111 20kΩ B	RK02031090
R914		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
R915		482211711449	CHIP 2.2kΩ ±5% 1/10W	NI05222110
			P904-SEMICONDUCTORS	
Q901		482213061227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
⚠ Q902		482213090347	PHOTO UNIT PC-817 PHOTO CUPLER 1PAIR	HW10006320
Q903		482213060588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000
Q904		482213061227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
Q905		482213043233	TRS. 2SC2240 GR	HT322401A0
Q906		482213060588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000
Q907		482213061227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
Q908		482213043233	TRS. 2SC2240 GR	HT322401A0
			P904-MISCELLANEOUS	
J902		996500003413	TERMINAL RCA 2P O F-G NI	YT02021640
J903		996500003414	TERMINAL RCA 2P G F-G NI	YT02021650
J904		996500003411	JACK LGY6501-0600	YJ01004670
J905		996500003411	JACK LGY6501-0600	YJ01004670
			PB04-BACK UP CIRCUIT BOARD FOR U	
			PB04-CAPACITORS	
⚠ CB01	/U	482212233276	CER. DE7150 F 103M VA1 KC	DK17103840
CB02	/U	482212230043	CER. 0.01µF Z 50V	DK18103310
CB03	/U	482212230043	CER. 0.01µF Z 50V	DK18103310
CB04	/U	482212441541	ELECT. 470µF M 35V RA-2	OA47703520
CB05	/U	482212230043	CER. 0.01µF Z 50V	DK18103310
CB06	/U		ELECT. 470µF M 35V	EA47703510
CB07	/U	482212230043	CER. 0.01µF Z 50V	DK18103310
CB08		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CB09	/U	482212230043	CER. 0.01µF Z 50V	DK18103310
CB10	/U	482212440763	ELECT. 2.2µF M 50V RA-2	OA22505020
CB11	/U	482212230043	CER. 0.01µF Z 50V	DK18103310
CB13	/U	482212490355	ELECT. 100µF M 50V RA-2	OA10705020
CB15	/U	482212480772	ELECT. 47µF M 35V RA-2	OA47603520
CB16	/U	482212441541	ELECT. 470µF M 35V	OA47703520
			PB04-RESISTORS	
⚠ RB01	/U		2.2MΩ ±10% 1/2W FOR UL	RC10225820
RB07	/U	482205310102	1kΩ ±5% 1W	GA05102010
RB12	/U	482211710158	1Ω J 1/4W	GG05010140
			PB04-RESISTORS (COMMON)	
R***	/U		CARBON FILM FIXED RES. ±5% 1/6W : RB02-RB04 RB08 RB09	
			PB04-SEMICONDUCTORS	
DB01	/U	482213082421	DIODE 1D3 1A 200V	HD20002710
DB06				
DB07	/U	482213010413	BRIDGE DIODE D2SBA20	HE20027290
DB08	/U	482213081247	DIODE WJ43	HD20031050
DB11 ⟆ DB14	/U	482213082421	DIODE 1D3 1A 200V	HD20002710
DB16	/U	482213080273	ZENER DIODE 8.2V	HD30821000
DB17	/U		JUMPER	75060501P0
QB01	/U	482213042949	TRS. 2SA970 GR OR BL	HT109702A0
QB02	/U	482213060588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000
QB03	/U	482220973674	IC NJM7806FA +6W 1A	HC38906090
QB04	/U	482220914883	IC S-806C	HC10075530
			PB04-MISCELLANEOUS	
⚠ FB01	/U		FUSE 8A 125V SM8 UL CSA	FS10800540
JB05	/U		JACK 2P AC OUTLET CCT1304-0212	YJ04002040
⚠ LB01	/U		MAINS TRANSF. EI48-20T 120V 60Hz	TS14831010
LB02	/U	482228080773	RELAY VS24MB-NR TV-8 SEMKO LISTED	LY10240240
			PB54-BACK UP CIRCUIT BOARD FOR K N S	
			PB54-CAPACITORS	
⚠ CB51	/K,/N,/S	482212233276	CER. DE7150 F 103M VA1 KC	DK17103840
CB52	/K,/N,/S	482212230043	CER. 0.01µF Z 50V	DK18103310
CB53	/K,/N,/S	482212230043	CER. 0.01µF Z 50V	DK18103310
CB54	/K,/N,/S	482212441541	ELECT. 470µF M 35V RA-2	OA47703520
CB55	/K,/N,/S	482212230043	CER. 0.01µF Z 50V	DK18103310
CB56	/K,/N,/S	482212441541	ELECT. 470µF M 35V RA-2	OA47703520
CB57	/K,/N,/S	482212230043	CER. 0.01µF Z 50V	DK18103310
CB58	/K,/N,/S	532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CB59	/K,/N,/S	482212230043	CER. 0.01µF Z 50V	DK18103310
CB60	/K,/N,/S	482212440763	ELECT. 2.2µF M 50V RA-2	OA22505020
CB61	/K,/N,/S	482212230043	CER. 0.01µF Z 50V	DK18103310
CB63	/K,/N,/S	482212490355	ELECT. 100µF M 50V RA-2	OA10705020
CB65	/K,/N,/S	482212480772	ELECT. 47µF M 35V RA-2	OA47603520
CB66	/K,/N,/S	482212441541	ELECT. 470µF M 35V	OA47703520
			PB54-RESISTORS	
RB57	/K,/N,/S	482205310102	1kΩ ±5% 1W	GA05102010
RB62	/K,/N,/S	482211710158	1Ω J 1/4W	GG05010140
			PB54-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RES. ±5% 1/6W : RB52-RB54 RB58 RB59	
			PB54-SEMICONDUCTORS	
DB51 ⟆ DB56	/K,/N,/S	482213082421	DIODE 1D3 1A 200V	HD20002710
DB57	/K,/N,/S	482213010413	BRIDGE DIODE D2SBA20	HE20027290
DB58	/K,/N,/S	482213081247	DIODE WJ43	HD20031050
DB61 ⟆ DB64	/K,/N,/S	482213082421	DIODE 1D3 1A 200V	HD20002710
DB66	/K,/N,/S	482213080273	ZENER DIODE 8.2V	HD30821000
DB67	/K,/N,/S		JUMPER	75060501P0
QB51	/K,/N,/S	482213042949	TRS. 2SA970 GR OR BL	HT109702A0
QB52	/K,/N,/S	482213060588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000
QB53	/K,/N,/S	482220973674	IC NJM7806FA +6W 1A	HC38906090
QB54	/K,/N,/S	482220914883	IC S-806C	HC10075530
			PB54-SEMICONDUCTORS	
⚠ FB51	/K,/N,/S	482207033152	FUSE T3.15A 250V BS LISTED	FS10315850
⚠ JB55	/N	482226731952	JACK AC OUTLET 2P N	YJ04002080
⚠ LB51	/K,/N,/S		MAINS TRANSF. EI48-20T 220V 50Hz	TS14831020
LB52	/K,/N,/S	482228080773	RELAY VS24MB-NR TV-8 SEMKO LISTED	LY10240240
			PB74-POWER SW CIRCUIT BOARD FOR N.K.S	
CB71	/K,/N,/S	482212233276	CER. SPERK KILLER 0.01µF	DK17103840
⚠ SB71	/K,/N,/S	996500001361	PUSH SWITCH SDDLB1 POWER SW TV-5	SP01012470

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PG04-5CH E-VR PRE-OUT CIRCUIT BOARD	
			PG04-CAPACITORS	
CQ35	/U	482212233204	CER. CHIP 15pF	DD55150300
CC01	/K,/U	532212234099	CER. CHIP 470pF	DK56471300
CC01	/N,/S	532212610511	CER. CHIP 1000pF	DK56102300
CC02	/K,/U	532212234099	CER. CHIP 470pF	DK56471300
CC02	/N,/S	532212610511	CER. CHIP 1000pF	DK56102300
CC03	/K,/U	532212234099	CER. CHIP 470pF	DK56471300
CC03	/N,/S	532212610511	CER. CHIP 1000pF	DK56102300
CC04	/K,/U	532212234099	CER. CHIP 470pF	DK56471300
CC04	/N,/S	532212610511	CER. CHIP 1000pF	DK56102300
CC05	/K,/U	532212234099	CER. CHIP 470pF	DK56471300
CC05	/N,/S	532212610511	CER. CHIP 1000pF	DK56102300
CC06	/K,/U	532212234099	CER. CHIP 470pF	DK56471300
CC06	/N,/S	532212610511	CER. CHIP 1000pF	DK56102300
CC07		482212490362	ELECT. 22µF M 50V RA-2	OA22605020
CC08		482212490362	ELECT. 22µF M 50V RA-2	OA22605020
CC09		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CC10		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CC11		482212490362	ELECT. 22µF M 50V RA-2	OA22605020
CC12		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CC13		482212490362	ELECT. 22µF M 50V RA-2	OA22605020
CC14		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CC15		482212490362	ELECT. 22µF M 50V RA-2	OA22605020
CC16		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CC17		482212490362	ELECT. 22µF M 50V RA-2	OA22605020
CC18		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CC19				
∫		532212234098	CER. CHIP 0.01µF	DK56103300
CC25				
CC32		482212441535	ELECT. 100µF M 25V RA-2	OA10702520
CC33		482212441535	ELECT. 100µF M 25V RA-2	OA10702520
CC34		532212234098	CER. CHIP 0.01µF	DK56103300
CC35		532212234098	CER. CHIP 0.01µF	DK56103300
CC36		532212232531	CER. CHIP 100pF	DD55101300
CC37		532212232531	CER. CHIP 100pF	DD55101300
CC38		532212232531	CER. CHIP 100pF	DD55101300
CC40		532212232452	CER. CHIP 47pF	DD55470300
CG01	7000	482212490362	ELECT. 22µF M 50V RA-2	OA22605020
CG02		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CG03	7000	482212490362	ELECT. 22µF M 50V RA-2	OA22605020
CG04		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CG05		482212490362	ELECT. 22µF M 50V RA-2	OA22605020
CG06		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CG07	7000	996500000600	ELECT. 33µF M 25V RA-2	OA33602520
CG08		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CG09	7000	996500000600	ELECT. 33µF M 25V RA-2	OA33602520
CG10		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CG11		996500000600	ELECT. 33µF M 25V RA-2	OA33602520
CG12		482212441539	ELECT. 47µF M 16V RA-2	OA47601620
CG13	7000	482212233514	CER. CHIP 68pF	DD55680300
CG14		482212233514	CER. CHIP 68pF	DD55680300
CG15	7000	482212233514	CER. CHIP 68pF	DD55680300
CG16		482212233514	CER. CHIP 68pF	DD55680300
CG17		482212233514	CER. CHIP 68pF	DD55680300
CG18		482212233514	CER. CHIP 68pF	DD55680300
CG21		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CG22		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CG23	/K,/S,/U	482212490362	ELECT. 22µF 50V RA-2	OA22605020
CG23	/N	996500002015	ELECT. 22µF 25V ARS	OA22602540
CG24		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CG27		532212234099	CER. CHIP 470pF	DK56471300
CG28		532212234099	CER. CHIP 470pF	DK56471300
CG29		532212234099	CER. CHIP 470pF	DK56471300
CG30		532212610511	CER. CHIP 0.001µF	DK56102300
CG31	/K,/U	532212610794	CER. CHIP 220pF	DK56221300
CG31	/N,/S	532212234099	CER. CHIP 470pF	DK56471300
CG32	/K,/U	532212610794	CER. CHIP 220pF	DK56221300

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CG32	/N,/S	532212234099	CER. CHIP 470pF	DK56471300
CG33	/K,/U	532212610794	CER. CHIP 220pF	DK56221300
CG33	/N,/S	532212234099	CER. CHIP 470pF	DK56471300
CG34	/K,/U	532212610794	CER. CHIP 220pF	DK56221300
CG34	/N,/S	532212234099	CER. CHIP 470pF	DK56471300
CG35	/K,/U	532212610794	CER. CHIP 220pF	DK56221300
CG35	/N,/S	532212234099	CER. CHIP 470pF	DK56471300
CG36		532212610511	CER. CHIP 0.001µF	DK56102300
CG37		482212441535	ELECT. 100µF M 25V RA-2	OA10702520
CG38		482212441535	ELECT. 100µF M 25V RA-2	OA10702520
CG39		482212240617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CG40		482212240617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CG41				
∫		532212234098	CER. CHIP 0.01µF	DK56103300
CG46				
CG47		532212232448	CER. CHIP 10pF CH	DD51100300
CG48		532212232448	CER. CHIP 10pF CH	DD51100300
CG49		532212232448	CER. CHIP 10pF CH	DD51100300
CG51	7000	532212232531	CER. CHIP 100pF	DD55101300
CG52		532212232531	CER. CHIP 100pF	DD55101300
CG53		532212232531	CER. CHIP 100pF	DD55101300
CG54	7000	532212232531	CER. CHIP 100pF	DD55101300
CG55		532212232531	CER. CHIP 100pF	DD55101300
CG56		532212232531	CER. CHIP 100pF	DD55101300
CM51	8000	482212490362	ELECT. 22µF M 50V RA-2	OA22605020
CM52	8000	482212490362	ELECT. 22µF M 50V RA-2	OA22605020
CM53	8000	482212142712	FILM 100pF 100V	DF15101550
CM54	8000	482212142712	FILM 100pF 100V	DF15101550
CM55	8000	482212231349	CER. 68pF J CH 50V BLK	DD15680300
CM56	8000	482212231349	CER. 68pF J CH 50V BLK	DD15680300
CM57	8000	996500000600	ELECT. 33µF M 25V RA-2	OA33602520
CM58	8000	996500000600	ELECT. 33µF M 25V RA-2	OA33602520
CM59	8000	482212142712	FILM 100pF 100V	DF15101550
CM60	8000	482212142712	FILM 100pF 100V	DF15101550
CM61	/K,/S,/U	482212490362	ELECT. 22µF 50V RA-2	OA22605020
CM61	/N	996500002015	ELECT. 22µF 25V ARS	OA22602540
CM62	/K,/S,/U	482212490362	ELECT. 22µF 50V RA-2	OA22605020
CM62	/N	996500002015	ELECT. 22µF 25V ARS	OA22602540
CM63		482212142327	FILM 470pF J M 50V	DF15471350
CM64		482212142327	FILM 470pF J M 50V	DF15471350
CM65	8000			
∫		482212240617	CER. 0.1µF +80 -20% 50V DC	DD38104010
CM68	8000			
CM69				
CM70		482212441535	ELECT. 100µF M 25V RA-2	OA10702520
∫		482212441535	ELECT. 100µF M 25V RA-2	OA10702520
CM72				
			PG04-RESISTORS	
RC01				
∫		482211710834	CHIP 47kΩ	NI05473110
RC05				
RC06		482205120273	CHIP 27kΩ 1/10W	NI05273110
RC07				
∫		482205120102	CHIP 1kΩ 1/10W	NI05102110
RC11				
RC12		482205120223	CHIP 22kΩ 1/10W	NI05223110
RC13				
∫		482211190896	CHIP 100kΩ ±5% 1/10W	NI05104110
RC18				
RC57		482211190896	CHIP 100kΩ ±5% 1/10W	NI05104110
RC58		482211190896	CHIP 100kΩ ±5% 1/10W	NI05104110
RC59		482205120101	CHIP 100Ω ±5% 1/10W	NI05101110
RC60		482205120101	CHIP 100Ω ±5% 1/10W	NI05101110
RC61		482205120101	CHIP 100Ω ±5% 1/10W	NI05101110
RG01				
∫		482211190896	CHIP 100kΩ ±5% 1/10W	NI05104110
RG06				

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
RG07		482211710833	CHIP 10kΩ 1/10W	NI05103110
RG07	8000	482211190892	0kΩ 1/10W	NI05000110
RG08		482211710833	CHIP 10kΩ 1/10W	NI05103110
RG09		482211710833	CHIP 10kΩ 1/10W	NI05103110
RG09	8000	482211190892	0kΩ 1/10W	NI05000110
RG10		482211710833	CHIP 10kΩ 1/10W	NI05103110
RG11		482211710833	CHIP 10kΩ 1/10W	NI05103110
RG12		482211710833	CHIP 10kΩ 1/10W	NI05103110
RG13				
ʃ		482211190918	CHIP 4.7kΩ ±5% 1/10W	NI05472110
RG17				
RG18		482211711449	CHIP 2.2kΩ ±5% 1/10W	NI05222110
RG19	8000	482205120564	560kΩ ± 5% 1/10W	NI05564110
RG20	8000	482205120564	560kΩ ± 5% 1/10W	NI05564110
RG21				
ʃ		482211710834	CHIP 47kΩ	NI05473110
RG24				
RG25	7000	482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RG26	7000	482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RG27				
ʃ		482205120391	CHIP 390Ω ±5% 1/10W	NI05391110
RG30				
RG31				
ʃ		482205120101	CHIP 100Ω ±5% 1/10W	NI05101110
RG36				
RG37				
ʃ		482211190918	CHIP 4.7kΩ	NI05472110
RG42				
RG43	/K,/N,/S	482211710833	CHIP 10kΩ 1/10W	NI05103110
RG44	/K,/N,/S	482211710833	CHIP 10kΩ 1/10W	NI05103110
RG45	/K,/N,/S	482211390141	FUSE 220Ω G 1/4W	NF02221140
RG49	8000	482211190892	0kΩ 1/10W	NI05000110
RG50	8000	482211190892	0kΩ 1/10W	NI05000110
RG51		482205120102	CHIP 1kΩ 1/10W	NI05102110
RG52		482205120102	CHIP 1kΩ 1/10W	NI05102110
RG53		482205120102	CHIP 1kΩ 1/10W	NI05102110
RG58	7000	482205120393	CHIP 39kΩ ±5% 1/10W	NI05393110
RG59		482205120393	CHIP 39kΩ ±5% 1/10W	NI05393110
RG60	7000	482205120393	CHIP 39kΩ ±5% 1/10W	NI05393110
RG61		482205120393	CHIP 39kΩ ±5% 1/10W	NI05393110
RG62		482205120393	CHIP 39kΩ ±5% 1/10W	NI05393110
RG63		482205120223	CHIP 22kΩ ±5% 1/10W	NI05223110
RM51	8000	482211191192	470kΩ ± 5% 1/10W	NI05471110
RM52	8000	482211191192	470kΩ ± 5% 1/10W	NI05471110
RM53	8000	482211190896	100kΩ ± 5% 1/10W	NI05104110
RM54	8000	482211190896	100kΩ ± 5% 1/10W	NI05104110
RM55	8000	482211710833	10kΩ ± 5% 1/10W	NI05103110
RM56	8000	482211710833	10kΩ ± 5% 1/10W	NI05103110
RM57	8000	482211190918	4.7kΩ ± 5% 1/10W	NI05472110
RM58	8000	482211190918	4.7kΩ ± 5% 1/10W	NI05472110
RM59				
ʃ	8000	482205120153	15kΩ ± 5% 1/10W	NI05153110
RM62				
RM63				
ʃ	8000	482211191459	22kΩ ± 5% 1/10W	NI05220110
RM66				
RM67		482205120391	CHIP 390Ω ±5% 1/10W	NI05391110
RM68		482205120391	CHIP 390Ω ±5% 1/10W	NI05391110
RM69		482211710834	CHIP 47kΩ	NI05473110
RM70		482211710834	CHIP 47kΩ	NI05473110
RM71	7000	482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RM72	7000	482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RM73	8000	482205120393	39kΩ ± 5% 1/10W	NI05393110
RM74	8000	482205120393	39kΩ ± 5% 1/10W	NI05393110
			PG04-SEMICONDUCTORS	
DG01	/K,/N,/S	996500003401	CHIP DIODE RB425D	HZ20030210
DG02	/K,/N,/S	996500003401	CHIP DIODE RB425D	HZ20030210
DG03	/K,/N,/S	996500003401	CHIP DIODE RB425D	HZ20030210

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
DM51	8000	996500003401	CHIP DIODE RB425D	HZ20030210
DM52	8000	996500003401	CHIP DIODE RB425D	HZ20030210
QC01		482220917155	IC NJM2068M FLAT	HC10102090
QC02		482220917155	IC NJM2068M FLAT	HC10102090
QC03		482220917155	IC NJM2068M FLAT	HC10102090
QC04		482220932553	IC LC78212	HC10309030
QG01		996500003395	IC ELE.VOL TC9482N	HC10456050
QG02		482220917155	IC NJM2068M FLAT	HC10102090
QG03		482220917155	IC NJM2068M FLAT	HC10102090
QG04		482220917155	IC NJM2068M FLAT	HC10102090
QG05				
ʃ		482213011511	CHIP TRS. 2SC3326 A OR B	HX333262A0
QG10				
QG11	/K,/N,/S	482213042292	TRS. 2SC2120 O	HT321201A0
QM51	8000	482213042949	TRS 2SA970 GR OR BL	HT109702A0
QM52	8000	482213042949	TRS 2SA970 GR OR BL	HT109702A0
QM53	8000	482213043233	TRS 2SC2240 GR OR BL	HT322402A0
QM54	8000	482213043233	TRS 2SC2240 GR OR BL	HT322402A0
QM55	8000	482213043283	TRS 2SC2705 O OR Y	HT327052A0
QM56	8000	482213043283	TRS 2SC2705 O OR Y	HT327052A0
QM57	8000	482213042999	TRS 2SA1145 O OR Y	HT111452A0
QM58	8000	482213042999	TRS 2SA1145 O OR Y	HT111452A0
			PG04-MISCELLANEOUS	
JC01		996500003418	TERMINAL RCA 6P BLK NI	YT02060680
JC01	8000		TERMINAL RCA 6P BLK AU	YT02060690
JG01		996500003418	TERMINAL RCA 6P BLK NI	YT02060680
JG01	8000		TERMINAL RCA 6P BLK AU	YT02060690
JG02			PLUG 05MQ-ST-L	YP06902270
JG03			PLUG SOCKET 12P	YP06902090
JG04			PLUG SOCKET 12P	YP06902090
LG01	/K,/N,/S	996500001576	RELAY MR82-24USR	LY20240480
LG02	/K,/N,/S	996500001576	RELAY MR82-24USR	LY20240480
LG03	/K,/N,/S	996500001576	RELAY MR82-24USR	LY20240480
LG05				
ʃ		482211190892	CHIP 0Ω 1/10W	NI05000110
LG10				
			PL04-CVBS FUNCTION CIRCUIT BOARD	
			PL04-CAPACITORS	
CL02		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL03		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL04		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL06		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL08		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL09		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL10		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL11			JUMPER	75060501P0
CL13		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL14			JUMPER	75060501P0
CL15		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL16		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL17		532212234098	CER. CHIP 0.01µF	DK56103300
CL18		532212234098	CER. CHIP 0.01µF	DK56103300
CL19		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL20		482212440763	ELECT. 2.2µF M 50V RA-2	OA22505020
CL21			JUMPER	75060501P0
CL21	8000	482212440763	ELECT. 2.2µF M 50V RA-2	OA22505020
CL24		532212234098	CER. CHIP 0.01µF	DK56103300
CL25		482212440763	ELECT. 2.2µF M 50V RA-2	OA22505020
CL26		482212441543	ELECT. 1µF M 50V RA-2	OA10505020
CL27		482212441543	ELECT. 1µF M 50V RA-2	OA10505020
CL28			CER. CHIP 1200pF	DK56122300
CL29		532212234098	CER. CHIP 0.01µF	DK56103300
CL30		482212490353	ELECT. 100µF M 10V RA-2	OA10701020
CL31		482212441543	ELECT. 1µF M 50V RA-2	OA10505020
CL32		532212234098	CER. CHIP 0.01µF	DK56103300
CL33		482212490353	ELECT. 100µF M 10V RA-2	OA10701020

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CL35		532212232658	CER. CHIP 22pF	DD55220300
CL36		482212611591	CER. CHIP 24pF J CH 50V BLK	DD15240300
CL37	/K,/N,/S	482212233204	CER. CHIP 15pF	DD55150300
CL37	/U	532212232658	CER. CHIP 22pF	DD55220300
CL38	/K,/N,/S	482212233204	CER. CHIP 15pF	DD55150300
CL38	/U	532212232658	CER. CHIP 22pF	DD55220300
CL39		482212441543	ELECT. 1µF M 50V RA-2	OA10505020
CL40		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL41		996500001040	ELECT. 470µF M 6.3V RA-2	OA47700620
CL42		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL43		532212234098	CER. CHIP 0.01µF	DK56103300
CL44		482212490352	ELECT. 10µF M 16V RA-2	OA10601620
CL45		532212234098	CER. CHIP 0.01µF	DK56103300
CL46		482212490352	ELECT. 10µF M 16V RA-2	OA10601620
CL47		532212234098	CER. CHIP 0.01µF	DK56103300
CL48		532212234098	CER. CHIP 0.01µF	DK56103300
CL49		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL50		482212490353	ELECT. 100µF 10V M RE-	OA10701020
CL51		482212490353	ELECT. 100µF M 10V RA-2	OA10701020
CL52		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL53		532212232658	CER. CHIP 22pF	DD55220300
CL54		532212232658	CER. CHIP 22pF	DD55220300
CL55		532212234098	CER. CHIP 0.01µF	DK56103300
CL56		532212234098	CER. CHIP 0.01µF	DK56103300
CL58		532212232452	CER. CHIP 47pF CH	DD55470300
CL59		532212232452	CER. CHIP 47pF CH	DD55470300
CL60		532212232452	CER. CHIP 47pF CH	DD55470300
CL61		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL62 ∫		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL67				
CL68	8000	482212441543	ELECT. 1µF M 50V RA-2	OA10505020
CL69	8000		CER. CHIP 1200pF	DK56122300
CL70	8000	482212441543	ELECT. 1µF M 50V RA-2	OA10505020
CL71	8000	532212234098	CER. CHIP 0.01µF	DK56103300
CL72	8000	482212490353	ELECT. 100µF M 10V RA-2	OA10701020
CL73	8000	482212441543	ELECT. 1µF M 50V RA-2	OA10505020
CL74	8000	532212234098	CER. CHIP 0.01UF	DK56103300
CL75	8000	482212490353	ELECT. 100µF M 10V RA-2	OA10701020
CL77	8000	532212232658	CER. CHIP 22pF	DD55220300
CL78	8000	482212611591	CER. 24pF J CH 50V BLK	DD15240300
CL79	8000 /K,/S	482212233204	CER. CHIP 15pF	DD55150300
CL79	8000 /U	532212232658	CER. CHIP 22pF	DD55220300
CL80	8000 /K,/S	482212233204	CER. CHIP 15pF	DD55150300
CL80	8000 /U	532212232658	CER. CHIP 22pF	DD55220300
CL81	8000	482212441543	ELECT. 1µF M 50V RA-2	OA10505020
CL82		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL83		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL84 ∫		532212234098	CER. CHIP 0.01µF	DK56103300
CY61				
CY62		532212234099	CER. CHIP 470pF	DK56471300
			PL04-RESISTORS	
RL01		482205120829	CHIP 82Ω ±5% 1/10W	NI05820110
RL02		482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RL03		482205120829	CHIP 82Ω ±5% 1/10W	NI05820110
RL04		482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RL05		482205120829	CHIP 82Ω ±5% 1/10W	NI05820110
RL06		482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RL07		482205120829	CHIP 82Ω ±5% 1/10W	NI05820110
RL08		482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RL09		482205120759	CHIP 75Ω ±5% 1/10W	NI05750110
RL10		482205120829	CHIP 82Ω ±5% 1/10W	NI05820110
RL11		482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RL12		482205120759	CHIP 75Ω ±5% 1/10W	NI05750110
RL13		482205120759	CHIP 75Ω ±5% 1/10W	NI05750110
RL14		482211190896	CHIP 100kΩ ±5% 1/10W	NI05104110

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
RL15		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RL16		482205120822	CHIP 8.2kΩ ±5% 1/10W	NI05822110
RL17		482205120153	CHIP 220Ω ±5% 1/10W	NI05221110
RL18		482205120153	CHIP 220Ω ±5% 1/10W	NI05221110
RL19		482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RL20		482205120105	CHIP 1MΩ ±5% 1/10W	NI05105110
RL21		482211710834	CHIP 47kΩ ±5% 1/10W	NI05473110
RL22		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RL23		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RL24		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RL25		482205120153	CHIP 220Ω ±5% 1/10W	NI05221110
RL26		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RL27		482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RL30		482211710834	CHIP 47kΩ ±5% 1/10W	NI05473110
RL31		482205120101	CHIP 100Ω ±5% 1/10W	NI05101110
RL32		482205120101	CHIP 100Ω ±5% 1/10W	NI05101110
RL34		482211712521	CHIP 68Ω ±5% 1/10W	NI05680110
RL61	8000	482211190896	100kΩ ± 5% 1/10W	NI05104110
RL62	8000	482211710833	10kΩ ± 5% 1/10W	NI05103110
RL63	8000	482205120822	8.2kΩ ± 5% 1/10W	NI05822110
RL64	8000	482205120153	220kΩ ± 5% 1/10W	NI05221110
RL65	8000	482205120153	220kΩ ± 5% 1/10W	NI05221110
RL66	8000	482211710833	10kΩ ± 5% 1/10W	NI05103110
RL67	8000	482211710833	10kΩ ± 5% 1/10W	NI05103110
RL68	8000	482211190892	0kΩ ± 5% 1/10W	NI05000110
RL69	8000	482205120105	1MkΩ ± 5% 1/10W	NI05105110
RL70	8000	482211710834	47kΩ ± 5% 1/10W	NI05473110
RL71	8000	482211710833	10kΩ ± 5% 1/10W	NI05103110
RL72		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RL73		482211190896	CHIP 100kΩ ±5% 1/10W	NI05104110
RL75	/U		JUMPER	75060501P0
RL75	/U		JUMPER	75060501P0
RL76	8000	482211190892	0kΩ ± 5% 1/10W	NI05000110
RL78	7000	482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RY61		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RY62		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RY63		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RY64		482211711454	CHIP 820Ω ±5% 1/10W	NI05821110
			PL04-SEMICONDUCTORS	
DL01		996500003401	CHIP DIODE RB425D	HZ20030210
DL03		482213082421	DIODE 1D3 1A 200V	HD20002710
DL61	8000	996500003401	CHIP DIODE RB425D	HZ20030210
DL62	8000	996500003401	CHIP DIODE RB425D	HZ20030210
DL63	8000	996500003401	CHIP DIODE RB425D	HZ20030210
DY61		996500003401	CHIP DIODE RB425D	HZ20030210
DY62		996500003401	CHIP DIODE RB425D	HZ20030210
QL01		996500003394	IC NJM2296M	HC10210090
QL02		996500003393	IC NJM2283M	HC10209090
QL03		996500003392	IC NJM2267M	HC10208090
QL04		482220915524	IC OSD IC LC74781	HC10377030
QL05		482213041947	TRS. 2SC536SP ETC	HT30001000
QL06		482213041947	TRS. 2SC536SP ETC	HT30001000
QL07	/K,/N,/S	482213061189	DIG.TRS. DTC114TS UN4215 10K	BA20004000
QL08	/K,/N,/S	482213061189	DIG.TRS. DTC114TS UN4215 10K	BA20004000
QL09	/K,/N,/S	482213061227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
QL10		482213041947	TRS. 2SC536SP ETC	HT30001000
QL61		996500001371	IC MM1140XF VIDEO SW.	HC10083550
QL62	8000	482220915524	IC OSD LC74781	HC10377030
QL63	8000	482213041947	TRS. 2SC2458 2SC1740S 2SC3199 ETC.	HT30001000
QL64	8000 /K,/S	482213061189	DIG.TRS. DTC114TS/UN4215 10K	BA20004000
QL65	8000 /K,/S	482213061189	DIG.TRS. DTC114TS/UN4215 10K	BA20004000

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
QL66	8000 /K,/S	482213061227	DIG.TRS. DTA114ES/UN4111 10K 10K	BA10001000
QL67	8000	482213041947	TRS. 2SC2458 2SC1740S 2SC3199 ETC.	HT30001000
QL68		482220960328	IC NJM2244M 3INPUT VIDEO	HC10160090
QY61		532220911532	IC 74HC4094 16PIN DIP	HC709449B0
			PL04-MISCELLANEOUS	
JL01		996500003415	TERMINAL RCA 3P Y F-G NI	YT02030590
JL01	8000		TERMINAL RCA 3P Y F-G AU	YT02030600
JL02		996500003415	TERMINAL RCA 3P Y F-G NI	YT02030590
JL02	8000		TERMINAL RCA 3P Y F-G AU	YT02030600
JL03		482226511201	TERMINAL RCA 2P Y F-S NI	YT02021470
JL03	8000		TERMINAL RCA 2P Y F-S AU	YT02021630
JL04			PLUG SOCKET 12P	YP06902090
JL05			PLUG SOCKET 12P	YP06902090
LL01		996500003404	CHIP INDUCTANCE 33µH	LU15333010
LL02		482224273843	EMI FILTER DSS306-91-F-223Z	FM12223010
LL03		482224273843	EMI FILTER DSS306-91-F-223Z	FM12223010
XL01		482224280288	CRYSTAL 14.31818MHz	JX14001260
XL02	/K,/N,/S	482224273903	CRYSTAL 17.31818MHz	JX17001260
XL62	8000 /K,/S	482224273903	CRYSTAL 17.31818MHZ	JX17001260
			PL54-S-VIDEO FUNCTION CIRCUIT BOARD	
			PL54-CAPACITORS	
CX01 ʃ		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CX08				
CX09		482212441796	ELECT. 22µF M 16V RA-2	OA22601620
CX10		996500001040	ELECT. 470µF M 6.3V RA-2	OA47700620
CX11		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CX12		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CX13		482212441796	ELECT. 22µF M 16V RA-2	OA22601620
CX14		996500001040	ELECT. 470µF M 6.3V RA-2	OA47700620
CX20		532212234098	CER. CHIP 0.01µF	DK56103300
CX21		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CX22		532212234098	CER. CHIP 0.01µF	DK56103300
CX23		532212234098	CER. CHIP 0.01µF	DK56103300
CX24		532212234098	CER. CHIP 0.01µF	DK56103300
CX25		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CX26		532212234098	CER. CHIP 0.01µF	DK56103300
CX27		532212234098	CER. CHIP 0.01µF	DK56103300
CX28		482212440763	ELECT. 2.2µF M 50V RA-2	OA22505020
CX29		482212441543	ELECT. 1µF M 50V RA-2	OA10505020
CX30			CER. CHIP 1200pF	DK56122300
CX31		482212441543	ELECT. 1µF M 50V RA-2	OA10505020
CX32		532212234098	CER. CHIP 0.01µF	DK56103300
CX33		482212490353	ELECT. 100µF M 10V RA-2	OA10701020
CX34		482212441543	ELECT. 1µF M 50V RA-2	OA10505020
CX35		482212490353	ELECT. 100µF M 10V RA-2	OA10701020
CX36		532212234098	CER. CHIP 0.01µF	DK56103300
CX38		532212232658	CER. CHIP 22pF	DD55220300
CX39		482212611591	CER. CHIP 24pF J CH 50V	DD15240300
CX40	/K,/N,/S	482212233204	CER. CHIP 15pF	DD55150300
CX40	/U	532212232658	CER. CHIP 22pF	DD55220300
CX41	/K,/N,/S	482212233204	CER. CHIP 15pF	DD55150300
CX41	/U	532212232658	CER. CHIP 22pF	DD55220300
CX43		482212441543	ELECT. 1µF M 50V RA-2	OA10505020
CX44		532212234098	CER. CHIP 0.01µF	DK56103300
CX45		482212441796	ELECT. 22µF M 16V RA-2	OA22601620
CX46		996500001040	ELECT. 470µF M 6.3V RA-2	OA47700620
CX47		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CX48		532212234098	CER. CHIP 0.01µF	DK56103300
CX49		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CX50		532212234098	CER. CHIP 0.01µF	DK56103300
CX51		532212234098	CER. CHIP 0.01µF	DK56103300
CX52		532212234098	CER. CHIP 0.01µF Z 50V	DK56103300
CX53		532212421731	ELECT. 10µF M 50V RA-2	OA10605020

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CX54		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CX55		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CX56 ʃ		482212490353	ELECT. 100µF M 10V RA-2	OA10701020
CX59				
CX60		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CX61		532212234098	CER. CHIP 0.01µF	DK56103300
CX62		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CX63		532212234098	CER. CHIP 0.01µF	DK56103300
CX64		532212234098	CER. CHIP 0.01µF	DK56103300
CX66 ʃ		532212232452	CER. CHIP 47pF CH	DD55470300
CX71				
			PL54-RESISTORS	
RX01 ʃ		482205120829	CHIP 82Ω ±5% 1/10W	NI05820110
RX08				
RX09		482205120759	CHIP 75Ω ±5% 1/10W	NI05750110
RX10		482205120759	CHIP 75Ω ±5% 1/10W	NI05750110
RX11		482205120829	CHIP 82Ω ±5% 1/10W	NI05820110
RX12		482205120829	CHIP 82Ω ±5% 1/10W	NI05820110
RX13		482205120759	CHIP 75Ω ±5% 1/10W	NI05750110
RX14		482205120759	CHIP 75Ω ±5% 1/10W	NI05750110
RX15 ʃ		482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RX19				
RX20		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RX21		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RX22		482211190896	CHIP 100kΩ ±5% 1/10W	NI05104110
RX23		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RX24		482205120822	CHIP 8.2kΩ ±5% 1/10W	NI05822110
RX25		482205120153	CHIP 220Ω ±5% 1/10W	NI05221110
RX26		482205120153	CHIP 220Ω ±5% 1/10W	NI05221110
RX27		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RX28		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RX29		482211190918	CHIP 4.7kΩ ±5% 1/10W	NI05472110
RX30		482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RX31		482205120105	CHIP 1MΩ ±5% 1/10W	NI05105110
RX32		482211710834	CHIP 47kΩ ±5% 1/10W	NI05473110
RX33		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RX34		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RX35		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RX36		482205120332	CHIP 3.3kΩ ±5% 1/10W	NI05332110
RX37		482211711449	CHIP 2.2kΩ ±5% 1/10W	NI05222110
RX38		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RX39		482205120153	CHIP 220Ω ±5% 1/10W	NI05221110
RX41		482205120759	CHIP 75Ω ±5% 1/10W	NI05750110
RX42		482205120759	CHIP 75Ω ±5% 1/10W	NI05750110
RX43	/U		JUMPER	75060501P0
RX44		482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RX46		482205120332	CHIP 3.3kΩ ±5% 1/10W	NI05332110
RX47		482211711449	CHIP 2.2kΩ ±5% 1/10W	NI05222110
RX49		482211712521	CHIP 68Ω ±5% 1/10W	NI05680110
RX50		482211712521	CHIP 68Ω ±5% 1/10W	NI05680110
			PL54-SEMICONDUCTORS	
DX01		996500003401	CHIP DIODE RB425D	HZ20030210
DX02		996500003401	CHIP DIODE RB425D	HZ20030210
DX04		996500003401	CHIP DIODE RB425D	HZ20030210
DX05		996500003401	CHIP DIODE RB425D	HZ20030210
QX01		996500003394	IC NJM2296M	HC10210090
QX02		996500003394	IC NJM2296M	HC10210090
QX03		482220960327	IC NJM2234M	HC10196090
QX04		482220960327	IC NJM2234M	HC10196090
QX05		482213041947	TRS. 2SC536SP ETC	HT30001000
QX06		482220915524	IC OSD LC74781	HC10377030
QX07	/K,/N,/S	482213061189	DIG.TRS. DTC114TS UN4215 10K	BA20004000

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
QX08	/K,/N,/S	482213061189	DIG.TRS. DTC114TS UN4215 10K	BA20004000
QX09	/K,/N,/S	482213061227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
QX10		482213041947	TRS. 2SC536SP ETC	HT30001000
QX11		996500003391	IC NJM2264M JRC	HC10077090
QX12		482213041947	TRS. 2SC536SP ETC	HT30001000
			PL54-MISCELLANEOUS	
JX01		482226531302	TERMINAL 3P S-VIDEO NI	YT02030350
JX01		996500001375	3P S-VIDEO JACK GOLD	YT02030550
JX02		482226531302	TERMINAL 3P S-VIDEO NI	YT02030350
JX02		996500001375	TERMINAL 3P S-VIDEO GOLD	YT02030550
JX03		482226520725	TERMINAL 2P S-VIDEO NI	YT02021320
JX03		996500001376	TERMINAL 2P S-VIDEO GOLD	YT02021520
LX01		996500003404	CHIP INDUCTANCE 33µH	LU15333010
LX02		482224273843	EMI FILTER DSS306-91-F-223Z	FM12223010
XX01		482224280288	CRYSTAL 14.31818MHz	JX14001260
XX02	/K,/N,/S	482224273903	CRYSTAL 17.31818MHz	JX17001260
			PL74-AUX INPUT CIRCUIT BOARD	
			PL74-CAPACITORS	
CL71	/S		CER. 470pF K 50V	DK16471300
CL73	/N,/S	482212231205	CER. 47pF J CH 50V BLK	DD15470300
CL73	/S	482212231205	CER. 47pF J CH 50V BLK	DD15470300
CL74	/N,/S	482212231205	CER. 47pF J CH 50V BLK	DD15470300
CL74	/S	482212231205	CER. 47pF J CH 50V BLK	DD15470300
CL75		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL75	8000	532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL76		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL76	8000	532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL77		482212230043	CER. 0.01µF Z 50V	DK18103310
CL77	8000	482212230043	CER. 0.01µF Z 50V	DK18103310
CL78		482212230043	CER. 0.01µF Z 50V	DK18103310
CL78	8000	482212230043	CER. 0.01µF Z 50V	DK18103310
CL81		482212490354	ELECT. 100µF M 16V RA-2	OA10701620
CL81	8000	482212490354	ELECT. 100µF M 16V RA-2	OA10701620
CL82		482212490354	ELECT. 100µF M 16V RA-2	OA10701620
CL91		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL92		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CL93 ∫ CL96			JUMPER	75060501P0
			PL74-CAPACITORS (COMMON)	
C***			HIGH DIELECTRIC CONSTANT CER. CAPACITOR ±10% 50V : CL71-CL72[/N,/S]	
			PL74-RESISTORS	
RL71	8000		1kΩ ±5% 1/6W	GD05102160
RL91		482211141355	75Ω ±5% 1/6W	GD05750160
RL92		482211141355	75Ω ±5% 1/6W	GD05750160
RL93		482211141355	75Ω ±5% 1/6W	GD05750160
RL94			JUMPER	75060501P0
RL95			JUMPER	75060501P0
RL96			JUMPER	75060501P0
			PL74-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RES. ±5% 1/6W : RL71-RL74 RL79 RL80	
			PL74-SEMICONDUCTOR	
QL71		482220983631	IC NJM4558D-D	HC10008090
			PL74-MISCELLANEOUS	
JL71		996500001347	RCA JACK 3P + S-TERMINAL	BY04040030

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PM01-HDAM CIRCUIT BOARD [SR8000 ONLY]	
			PM01-RESISTORS (COMMON)	
R***	8000		CARBON FILM FIXED RES. ±5% 1/6W : ALL	
			PM01-SEMICONDUCTORS	
DM02 ∫ DM05	8000	482213032362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
QM01	8000	482213042839	TRS. 2SK369 BL VGDS-40V PD0.4W	HF203690
QM02	8000	482213042839	TRS. 2SK369 BL VGDS-40V PD0.4W	HF203690
QM03	8000	482213043233	TRS. 2SC2240 GR OR BL	HT322402A0
QM04	8000	482213042949	TRS. 2SA970 GR OR BL	HT109702A0
QM05	8000	482213042949	TRS. 2SA970 GR OR BL	HT109702A0
QM06	8000	482213043233	TRS. 2SC2240 GR OR BL	HT322402A0
			PS04-AUDIO FUNCTION 1 CIRCUIT BOARD	
			PS04-CAPACITORS	
CS01 ∫ CS06		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CS07	/K,/U	532212610794	CER. CHIP 220pF	DK56221300
CS07	/N,/S	532212234099	CER. CHIP 470pF	DK56471300
CS08	/K,/U	532212610794	CER. CHIP 220pF	DK56221300
CS08	/N,/S	532212234099	CER. CHIP 470pF	DK56471300
CS09	/K,/U	532212610794	CER. CHIP 220pF	DK56221300
CS09	/N,/S	532212234099	CER. CHIP 470pF	DK56471300
CS10	/K,/U	532212610794	CER. CHIP 220pF	DK56221300
CS10	/N,/S	532212234099	CER. CHIP 470pF	DK56471300
CS11	/K,/U	532212610794	CER. CHIP 220pF	DK56221300
CS11	/N,/S	532212234099	CER. CHIP 470pF	DK56471300
CS12	/K,/U	532212610794	CER. CHIP 220pF	DK56221300
CS12	/N,/S	532212234099	CER. CHIP 470pF	DK56471300
CS13	/K,/U	482212233204	CER. CHIP 15pF	DD55150300
CS13	/N,/S	532212232452	CER. CHIP 47pF	DD55470300
CS14	/K,/U	482212233204	CER. CHIP 15pF	DD55150300
CS14	/N,/S	532212232452	CER. CHIP 47pF	DD55470300
CS15	/K,/U	482212233204	CER. CHIP 15pF	DD55150300
CS15	/N,/S	532212232452	CER. CHIP 47pF	DD55470300
CS16	/K,/U	482212233204	CER. CHIP 15pF	DD55150300
CS16	/N,/S	532212232452	CER. CHIP 47pF	DD55470300
CS17	/K,/U	482212233204	CER. CHIP 15pF	DD55150300
CS17	/N,/S	532212232452	CER. CHIP 47pF	DD55470300
CS18	/K,/U	482212233204	CER. CHIP 15pF	DD55150300
CS18	/N,/S	532212232452	CER. CHIP 47pF	DD55470300
CS19 ∫ CS22		482212233127	CER. CHIP 2200pF	DK56222300
CS23 ∫ CS28		532212234098	CER. CHIP 0.01µF	DK56103300
CS29		482212240617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CS30		482212490354	ELECT. 100µF M 16V RA-2	OA10701620
CS31		482212490354	ELECT. 100µF M 16V RA-2	OA10701620
CS32		482212240617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CS33		482212240617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CS34		482212240617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CS51 ∫ CS54		482212480067	ELECT. 4.7µF M 50V RA-2	OA47505020
CS55		532212234098	CER. CHIP 0.01µF	DK56103300
CS56		532212234098	CER. CHIP 0.01µF	DK56103300
CS57		482212480067	ELECT. 4.7µF M 50V RA-2	OA47505020
CS58		482212480067	ELECT. 4.7µF M 50V RA-2	OA47505020
CS59		532212421731	ELECT. 10µF M 50V RA-2	OA10605020

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CS60		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CS61		532212234098	CER. CHIP 0.01µF	DK56103300
CS62		532212234098	CER. CHIP 0.01µF	DK56103300
CS63				
⟆		482212480067	ELECT. 4.7µF M 50V RA-2	OA47505020
CS66				
CS67				
⟆		532212234098	CER. CHIP 0.01µF	DK56103300
CS71				
CS73		532212610794	CER. CHIP 220pF	DK56221300
CS74		532212610794	CER. CHIP 220pF	DK56221300
CS76		532212234098	CER. CHIP 0.01µF	DK56103300
CS91		996500001040	ELECT. 470µF M 6.3V RA-2	OA47700620
			PS04-RESISTORS	
RS01				
⟆		482211710834	CHIP 47kΩ ±5% 1/10W	NI05473110
RS06				
RS07				
⟆		482205120102	CHIP 1kΩ ±5% 1/10W	NI05102110
RS12				
RS13				
⟆		482211710834	CHIP 47kΩ ±5% 1/10W	NI05473110
RS18				
RS19				
⟆		482205120102	CHIP 1kΩ ±5% 1/10W	NI05102110
RS22				
RS23		482211190896	CHIP 100kΩ ±5% 1/10W	NI05104110
RS24		482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RS25		482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RS26		482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RS51		482211711139	CHIP 1.5kΩ ±5% 1/10W	NI05152110
RS52		482211711139	CHIP 1.5kΩ ±5% 1/10W	NI05152110
RS53		482211191139	CHIP 6.8kΩ ±5% 1/10W	NI05682110
RS54		482211191139	CHIP 6.8kΩ ±5% 1/10W	NI05682110
RS55		482205120564	CHIP 560kΩ ±5% 1/10W	NI05564110
RS56		482205120564	CHIP 560kΩ ±5% 1/10W	NI05564110
RS57		482211190896	CHIP 100kΩ ±5% 1/10W	NI05104110
RS58		482211190896	CHIP 100kΩ ±5% 1/10W	NI05104110
RS59		482205120564	CHIP 560kΩ ±5% 1/10W	NI05564110
RS60		482205120564	CHIP 560kΩ ±5% 1/10W	NI05564110
RS61		482211710834	CHIP 47kΩ ±5% 1/10W	NI05473110
RS62		482211710834	CHIP 47kΩ ±5% 1/10W	NI05473110
RS63				
⟆		482211191192	CHIP 470Ω ±5% 1/10W	NI05471110
RS66				
RS67				
⟆		482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RS70				
RS71		482211710834	CHIP 47kΩ ±5% 1/10W	NI05473110
RS72		482211710834	CHIP 47kΩ ±5% 1/10W	NI05473110
RS73				
⟆		482211190896	CHIP 100kΩ ±5% 1/10W	NI05104110
RS76				
RS77	/K,/N,/S	482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RS78	/K,/N,/S	482211710833	CHIP 10kΩ ±5% 1/10W	NI05103110
RS79	/K,/N,/S	482211390141	FUSE 220Ω G 1/4W	NF02221140
RS80		482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RS81		482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RS82		482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RS85		482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RS87		482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RS91		482205120759	CHIP 75Ω ±5% 1/10W	NI05750110
			PS04-SEMICONDUCTORS	
DS51	/K,/N,/S	996500003401	CHIP DIODE RB425D	HZ20030210
QS01		482220983631	IC NJM4558MD	HC10035090
QS02		482220983631	IC NJM4558MD	HC10035090
QS03		482220983631	IC NJM4558MD	HC10035090
QS04		482220932552	IC LC78211	HC10308030
QS51		482220931618	IC LC7536	HC10383030
QS52		482220983631	IC NJM4558MD	HC10035090
QS53		482220983631	IC NJM4558MD	HC10035090
QS54	/K,/N,/S	482213042292	TRS. 2SC2120 O	HT321201A0
QS55				
⟆		482213061892	TRS. 2SD2144S U OR V	HT421442A0
QS58				
QS59		482220983631	IC NJM4558MD	HC10035090
			PS04-MISCELLANEOUS	
JS01	7000	996500003417	TERMINAL RCA 6P BLK NI	YT02060660
JS01	8000		TERMINAL RCA 6P BLK AU	YT02060670
JS02	7000	996500003417	TERMINAL RCA 6P BLK NI	YT02060660
JS02	8000		TERMINAL RCA 6P BLK AU	YT02060670
JS03			PLUG SOCKET 12P	YP06902090
JS91	7000	996500003412	TERMINAL RCA 1P BLK NI	YT02011200
JS91	8000		TERMINAL RCA 1P BLK AU	YT02011210
LS51	/K,/N,/S	996500001576	RELAY MR82-24USR	LY20240480
			PS54-AUDIO FUNCTION 2 CIRCUIT BOARD	
			PS54-CAPACITORS	
CQ01				
⟆		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CQ10				
CQ11	/K,/U	532212610794	CER. CHIP 220pF	DK56221300
CQ11	/N,/S	532212234099	CER. CHIP 470pF	DK56471300
CQ12	/K,/U	532212610794	CER. CHIP 220pF	DK56221300
CQ12	/N,/S	532212234099	CER. CHIP 470pF	DK56471300
CQ13	/K,/U	532212610794	CER. CHIP 220pF	DK56221300
CQ13	/N,/S	532212234099	CER. CHIP 470pF	DK56471300
CQ14	/K,/U	532212610794	CER. CHIP 220pF	DK56221300
CQ14	/N,/S	532212234099	CER. CHIP 470pF	DK56471300
CQ15	/K,/U	532212610794	CER. CHIP 220pF	DK56221300
CQ15	/N,/S	532212234099	CER. CHIP 470pF	DK56471300
CQ16	/K,/U	532212610794	CER. CHIP 220pF	DK56221300
CQ16	/N,/S	532212234099	CER. CHIP 470pF	DK56471300
CQ17	/K,/U	532212610794	CER. CHIP 220pF	DK56221300
CQ17	/N,/S	532212234099	CER. CHIP 470pF	DK56471300
CQ18	/K,/U	532212610794	CER. CHIP 220pF	DK56221300
CQ18	/N,/S	532212234099	CER. CHIP 470pF	DK56471300
CQ19	/K,/U	532212610794	CER. CHIP 220pF	DK56221300
CQ19	/N,/S	532212234099	CER. CHIP 470pF	DK56471300
CQ20	/K,/U	532212610794	CER. CHIP 220pF	DK56221300
CQ20	/N,/S	532212234099	CER. CHIP 470pF	DK56471300
CQ21				
⟆		532212234098	CER. CHIP 0.01µF	DK56103300
CQ30				
CQ31	/K,/U	482212233204	CER. CHIP 15pF	DD55150300
CQ31	/N,/S	532212232452	CER. CHIP 47pF	DD55470300
CQ32	/K,/U	482212233204	CER. CHIP 15pF	DD55150300
CQ32	/N,/S	532212232452	CER. CHIP 47pF	DD55470300
CQ33	/K,/U	482212233204	CER. CHIP 15pF	DD55150300
CQ33	/N,/S	532212232452	CER. CHIP 47pF	DD55470300
CQ34	/K,/U	482212233204	CER. CHIP 15pF	DD55150300
CQ34	/N,/S	532212232452	CER. CHIP 47pF	DD55470300
CQ35	/K,/U	482212233204	CER. CHIP 15pF	DD55150300
CQ35	/N,/S	532212232452	CER. CHIP 47pF	DD55470300
CQ36	/K,/U	482212233204	CER. CHIP 15pF	DD55150300
CQ36	/N,/S	532212232452	CER. CHIP 47pF	DD55470300
CQ37	/K,/U	482212233204	CER. CHIP 15pF	DD55150300
CQ37	/N,/S	532212232452	CER. CHIP 47pF	DD55470300
CQ38	/K,/U	482212233204	CER. CHIP 15pF	DD55150300
CQ38	/N,/S	532212232452	CER. CHIP 47pF	DD55470300
CQ39	/K,/U	482212233204	CER. CHIP 15pF	DD55150300
CQ39	/N,/S	532212232452	CER. CHIP 47pF	DD55470300
CQ40	/K,/U	482212233204	CER. CHIP 15pF	DD55150300
CQ40	/N,/S	532212232452	CER. CHIP 47pF	DD55470300

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CQ41				
∫		482212233127	CER. CHIP 2200pF	DK56222300
CQ44				
CQ45		482212480067	ELECT. 4.7µF M 50V RA-2	OA47505020
CQ46		482212480067	ELECT. 4.7µF M 50V RA-2	OA47505020
CQ47		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CQ48		532212421731	ELECT. 10µF M 50V RA-2	OA10605020
CQ49		532212234098	CER. CHIP 0.01µF	DK56103300
CQ50		532212234098	CER. CHIP 0.01µF	DK56103300
CQ51		482212240617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CQ52		482212240617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CQ53		482212490355	ELECT. 100µF M 50V RA-2	OA10705020
CQ54		482212490354	ELECT. 100µF M 16V RA-2	OA10701620
CQ55				
∫		482212240617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CQ58				
CQ60		482212240617	CER. 0.1µF +80%-20% 50V DC	DD38104010
			PS54-RESISTORS	
RQ01				
∫		482211710834	CHIP 47kΩ ±5% 1/10W	NI05473110
RQ10				
RQ11				
∫		482205120102	CHIP 1kΩ ±5% 1/10W	NI05102110
RQ20				
RQ21				
∫		482211710834	CHIP 47kΩ ±5% 1/10W	NI05473110
RQ30				
RQ31				
∫		482205120102	CHIP 1kΩ ±5% 1/10W	NI05102110
RQ34				
RQ35				
∫		482211190896	CHIP 100kΩ ±5% 1/10W	NI05104110
RQ40				
RQ41				
∫		482211190892	CHIP 0Ω ±5% 1/10W	NI05000110
RQ44				
			PS54-SEMICONDUCTORS	
QQ01				
∫		482220983631	IC NJM4558MD	HC10035090
QQ05				
QQ06		482220932553	IC LC78212	HC10309030
QQ07		482220932552	IC LC78211	HC10308030
QQ08		482220983631	IC NJM4558MD	HC10035090
			PS54-MISCELLANEOUS	
JQ01		996500003417	TERMINAL RCA 6P BLK NI	YT02060660
JQ01	8000		TERMINAL RCA 6P BLK AU	YT02060670
JQ02		996500003416	TERMINAL RCA 4P BLK NI	YT02041270
JQ02	8000		TERMINAL RCA 4P BLK AU	YT02041280
JQ03		996500003416	TERMINAL RCA 4P BLK NI	YT02041270
JQ03	8000		TERMINAL RCA 4P BLK AU	YT02041280
JQ04			PLUG SOCKET 12P	YP06902090
			PU01-FRONT CIRCUIT BOARD	
			PU01-CAPACITORS	
CU01		482212421894	ELECT 10µF 16V	EJ10601610
CU02		482212611558	CER. 0.1µF Z 50V	DA17104110
CU03		482212610364	CER. 100pF UP050B101K-A	DA16101110
CU04		482212610364	CER. 100pF UP050B101K-A	DA16101110
CU06		482212611558	CER. 0.1µF Z 50V	DA17104110
CU07		482212611558	CER. 0.1µF Z 50V	DA17104110
CU08		482212240588	CER. 0.022µF TP050F223Z	DA17223110
CU09		482212441537	ELECT. 220µF M 6.3V RA-2	OA22700620
CU10		482212233639	CER. 1000pF	DA16102110
CU11		482212611558	CER. 0.1µF Z 50V	DA17104110
CU12		482212610935	ELECT 100µF 6.3V	EJ10700610
CU13		482212240617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CU14		482212611558	CER. 0.1µF Z 50V	DA17104110

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CU15		482212423056	ELECT 47µF 10V	EJ47601010
CU16		482212490406	BIG ELECT CAP FMOH223ZTP16 SUPER	EX22300530
CU17		482212240588	CER. 0.022µF TP050F223Z	DA17223110
CU18		996500000368	CER. 0.047µF 50V	DA17473110
CU19		996500000368	CER. 0.047µF 50V	DA17473110
CU22		482212610935	ELECT 100µF 6.3V	EJ10700610
			PU04-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RES. ±5% 1/6W : RU01-RU06 RU08 RU10-RU16 RU18 RU20-RU26 RU28 RU30-RU32 RU33[/K] RU34-RU72 RU90 RU91	
			PU01-SEMICONDUCTORS	
DU01				
∫		482213011569	L.E.D. HLMF-K200 #2UL RED H=9 3MM	HI10005340
DU08				
DU09				
∫		482213032362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DU15				
QU01		996500003396	MICROPROCESSOR TMP93CW44ADF	HU321JT10F
QU02		482220990244	IC UPD1631C-AB6 FTD DRIVER	HC10283060
QU03		482213041947	TRS. 2SC2458 2SC1740S 2SC3199 ETC.	HT30001000
QU04		482213041947	TRS. 2SC2458 2SC1740S 2SC3199 ETC.	HT30001000
QU05		482213042594	DIG.TRS. DTC144ES UN4213 47K 47K	BA20002000
QU06		482213041947	TRS. 2SC2458 2SC1740S 2SC3199 ETC.	HT30001000
QU07		482213041947	TRS. 2SC2458 2SC1740S 2SC3199 ETC.	HT30001000
QU08		482213061227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
QU09		482213060588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000
QU10		482213060588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000
QU11		482213061227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
QU12		482213041947	TRS. 2SC2458 2SC1740S 2SC3199 ETC.	HT30001000
QU13		482213061227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
QU14		482213042594	DIG.TRS. DTC144ES UN4213 47K 47K	BA20002000
QU15		482213061227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
QU16		482213061227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
QU17		482213063211	DIG.TRS. DTA114TS UN4115 10K	BA10004000
QU18		482220916735	PHOTO UNIT PNA4655M00HB IR SENSOR	HW10006020
			PU01-MISCELLANEOUS	
JU01			JACK 33FE-ST-VK-N 33PIN	YJ07020290
SU01				
∫		996500000373	PUSH SWITCH EVQ11L05R H 5MM 160GF	SP01013370
SU23				
SU24		996500001348	ROTARY SWITCH ROTALY ENCODER 36PULSE EC16B	SR02010070
VU01		482213090319	DISPLAY UNIT 12-BT-117GNK	HQ31201410
XU01		996500001346	SERAMIC VIB. CST20 00MXW	FQ02005030

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PU44-SUB FRONT CIRCUIT BOARD	
			PU44-CAPACITORS	
CU81		482212610364	CER. 100pF UP050B101K-A	DA16101110
CU82		482212610364	CER. 100pF UP050B101K-A	DA16101110
			PU44-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RES. ±5% 1/6W : RU81-RU89	
			PU44-SEMICONDUCTORS	
DU81		482213011569	L.E.D. HLMF-K200 #2UL RED	HI10005340
QU81		482213041947	TRS. 2SC2458 2SC1740S 2SC3199 ETC.	HT30001000
QU82		482213041947	TRS. 2SC2458 2SC1740S 2SC3199 ETC.	HT30001000
QU83		482213060588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000
			PU44-MISCELLANEOUS	
SU81		996500001349	ROTARY SWITCH ROT ENCOD EC16B 16PLS 16CLICK	SR02010080
			PU54-TACT POWER SW CIRCUIT BOARD FOR U	
SU91	/U	996500000373	PUSH SWITCH EVQ11L05R	SP01013370
			PW04-H.P. CIRCUIT BOARD	
CW01	/K,/N,/S	482212230043	CER. 0.01µF Z 50V	DK18103310
CW02	/K,/N,/S	482212230043	CER. 0.01µF Z 50V	DK18103310
CW03		482212230043	CER. 0.01µF Z 50V	DK18103310
CW04		482212230043	CER. 0.01µF Z 50V	DK18103310
JW01	BLACK	482226510685	JACK HLJ2307-01-3160	YJ01004240
JW01	GOLD	482226511525	JACK HLJ2307-01-3163	YJ01004330
			PY04-CONNECTOR P-SUPPLY CIRCUIT BOARD	
			PY04-CAPACITORS	
C801		482212612453	CER. 0.01µF Z E 500V	DK18103560
C802		996500003388	ELECT 15000µF 63V LH6	EB15906320
C802	8000		ELECT 27000µF 63V (LH6)	EB27906330
C803		996500003388	ELECT 15000µF 63V LH6	EB15906320
C803	8000		ELECT 27000µF 63V (LH6)	EB27906330
C821		482212230043	CER. 0.01µF Z 50V	DK18103310
C822		482212230043	CER. 0.01µF Z 50V	DK18103310
C823		482212411583	ELECT. 2200µF M 35V RA-2	OA22803520
C824		482212411583	ELECT. 2200µF M 35V RA-2	OA22803520
C825 ⟆ C828		482212230043	CER. 0.01µF Z 50V	DK18103310
C829		482212412328	ELECT. 6800µF 16V RA2	OA68801620
C830		482212440723	ELECT. 2200µF 16V	OA22801620
C831 ⟆ C834		482212230043	CER. 0.01µF Z 50V	DK18103310
C835		482212490354	ELECT. 100µF M 16V RA-2	OA10701620
C836		482212490354	ELECT. 100µF M 16V RA-2	OA10701620
C837		482212230043	CER. 0.01µF Z 50V	DK18103310
C838		482212230043	CER. 0.01µF Z 50V	DK18103310
C839		482212230043	CER. 0.01µF Z 50V	DK18103310
C840		482212490354	ELECT. 100µF M 16V RA-2	OA10701620
C841		482212490354	ELECT. 100µF M 16V RA-2	OA10701620
C842		482212490354	ELECT. 100µF M 16V RA-2	OA10701620
C843		482212230043	CER. 0.01µF Z 50V	DK18103310
CN01		482212240617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CN02		482212441539	ELECT. 47µF M 16V RA-2	OA47601620
CN03		482212240617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CN04		482212441539	ELECT. 47µF M 16V RA-2	OA47601620
CN05		482212441543	ELECT. 1µF M 50V RA-2	OA10505020
CN06		482212240617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CN07		482212490353	ELECT. 100µF M 10V RA-2	OA10701020
CN08		482212490362	ELECT. 22µF M 50V RA-2	OA22605020
CN09		482212440763	ELECT. 2.2µF M 50V RA-2	OA22505020
CY01		482212240617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CY02		482212611726	CER. 2200pF	DA17222110
CY03		482212240617	CER. 0.1µF +80%-20% 50V DC	DD38104010
CY04		482212611726	CER. 2200pF	DA17222110
CY05		482212230043	CER. 0.01µF Z 50V	DK18103310
CY06		482212230043	CER. 0.01µF Z 50V	DK18103310
CY07	/K,/S,/U	532212421731	ELECT. 10µF 50V RA-2	OA10605020
CY07	/N	482212480543	ELECT. 10µF 35V ARS	OA10603540
CY08	/K,/S,/U	532212421731	ELECT. 10µF 50V RA-2	OA10605020
CY08	/N	482212480543	ELECT. 10µF 35V ARS	OA10603540
CY11	/K,/S,/U	532212421731	ELECT. 10µF 50V RA-2	OA10605020
CY11	/N	482212480543	ELECT. 10µF 35V ARS	OA10603540
CY12	/K,/S,/U	532212421731	ELECT. 10µF 50V RA-2	OA10605020
CY12	/N	482212480543	ELECT. 10µF 35V ARS	OA10603540
CY13 ⟆ CY22		482212230043	CER. 0.01µF Z 50V	DK18103310
			PY04-RESISTORS	
R821 ⟆ R824			JUMPER	75060501P0
⚠ RN01		482205023303	33kΩ J 1/4W	GG05333140
RN08		482205021503	15kΩ ±5% 1/2W	GG05153120
RN27		482205310331	330Ω ±5% 1W	GA05331010
RN28		482205310331	330Ω ±5% 1W	GA05331010
RN29		482205210101	100Ω ±5% 1/6W	GG05101160
RY17			JUMPER	75060501P0
RY18			JUMPER	75060501P0
RY21	/K,/N,/S		JUMPER	75060501P0
			PL74-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RES. ±5% 1/6W : RN02-RN07 RN09-RN26 RY01-RY14 RY19-RY20 RY22-RY25	
			PY04-SEMICONDUCTORS	
D801		996500003398	DIODE SIP 10A 200V	HE20024290
D821		482213033057	DIODE	HE20011290
D822		482213033057	DIODE	HE20011290
D823		482213082421	DIODE 1D3 1A 200V	HD20002710
D824		482213082421	DIODE 1D3 1A 200V	HD20002710
D825		482213082421	DIODE 1D3 1A 200V	HD20002710
D853		482213082421	DIODE 1D3 1A 200V	HD20002710
D854		482213082421	DIODE 1D3 1A 200V	HD20002710
DN01		482213082421	DIODE 1D3 1A 200V	HD20002710
DN02		482213082421	DIODE 1D3 1A 200V	HD20002710
DN03		482213080837	DIODE HSS81TD 150V 150mA	HD20027010
DN04 ⟆ DN07		482213082421	DIODE 1D3 1A 200V	HD20002710
DY01 ⟆ DY10		482213032362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
⚠ Q821		482220983317	IC NJM7815FA +15V 1A	HC38915090
⚠ Q822		482220961256	IC NJM7915FA	HC39915090
⚠ Q823		482220983824	IC NJM7805FA +5V	HC38905090
⚠ Q824		482220983824	IC NJM7805FA +5V	HC38905090

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
⚠ Q825		482220930258	IC NJM7905FA	HC39905090
QN01		482220983312	IC TA7317P	HC10042050
QN02		482213042594	DIG.TRS.	BA20002000
			DTC144ES UN4213 47K 47K	
QN03		482213042949	TRS. 2SA970 GR OR BL	HT109702A0
QN04		482213060696	TRS. 2SC1627 O Y 8	HT316272B0
			0V 300MA 600MW TO	
QN05		482213042594	DIG.TRS.	BA20002000
			DTC144ES UN4213 47K 47K	
QN06		482213060526	TRS. 2SD1508 HFE>4000	HT415080A0
QY01		532220911532	IC 74HC4094 16PIN	HC709449B0
QY02		532220911532	IC 74HC4094 16PIN	HC709449B0
QY03				
∫		482213061227	DIG.TRS.	BA10001000
QY08			DTC114ES UN4211 10K 10K	
QY09		482220962784	IC TC9215P ANALOGUE SW.	HC10262050
QY10		482220983631	IC NJM4558D-D	HC10008090
QY11		482213060588	DIG.TRS.	BA20001000
			DTC114ES UN4211 10K 10K	
QY12	/K,/N,/S	482213060588	DIG.TRS.	BA20001000
			DTC114ES UN4211 10K.10K	
QY13	/K,/N,/S	482213061227	DIG.TRS.	BA10001000
			DTC114ES UN4211 10K.10K	
			PY04-MISCELLANEOUS	
⚠ F821	/K,/N,/S	482225330415	FUSE 1.6 A 250V BS LISTED	FS10160850
⚠ F821	/U		FUSE 2A 125V	FS10200350
			UL CSA MITI FBT	
⚠ F822	/K,/N,/S	482225330415	FUSE 1.6 A 250V BS LISTED	FS10160850
⚠ F822	/U		FUSE 2A 125V	FS10200350
			UL CSA MITI FBT	
⚠ F823	/K,/N,/S	482225330415	FUSE 1.6 A 250V BS LISTED	FS10160850
⚠ F823	/U		FUSE 2A 125V	FS10200350
			UL CSA MITI FBT	
⚠ F824	/K,/N,/S	482225330415	FUSE 1.6 A 250V BS LISTED	FS10160850
⚠ F824	/U		FUSE 2A 125V	FS10200350
			UL CSA MITI FBT	
JY01			JACK 33FE-BT-VK-N 33PIN	YJ07020660
LN01		482228010305	RELAY VB-18MBU-565-UL3	LY20180020
LN02		482228010305	RELAY VB-18MBU-565-UL3	LY20180020
LN03		482228010305	RELAY VB-18MBU-565-UL3	LY20180020
LN04		996500001576	RELAY MR82-24USR	LY20240480
LY01				
∫		482224273843	EMI FILTER DSS306-91-F-223Z	FM12223010
LY04				