

Service Manual

DV2400 /N1S/S1S

DVD Player

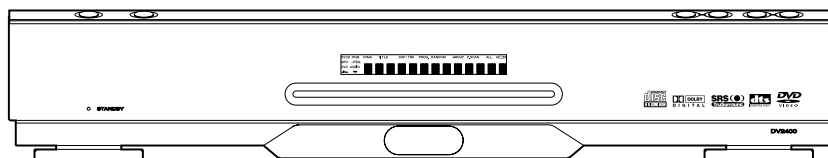


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Please use this service manual with referring to the user guide (D.F.U.) without fail.
修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。

marantz®

DV2400

Part no. 34AW855010
First Issue 2003.11
ecm

MARANTZ DESIGN AND SERVICE

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

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

ORDERING PARTS :

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

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

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

USA

MARANTZ AMERICA, INC
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ITASCA, IL. 60143
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PHONE : 630 - 741 - 0300
FAX : 630 - 741 - 0301

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P. O. BOX 8744, BUILDING SILVERPOINT
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FAX : +61 - (0)2 - 9519 - 0600

PROFESSIONAL HONG KONG

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UNIT 2, 10F, WAH HUNG CENTRE,
41 HUNG TO ROAD, KWUN TONG, KLN.,
HONG KONG
PHONE : 852 - 21913660
FAX : 852 - 21913990

AUSTRALIA

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24 LIONEL ROAD,
MT. WAVERLEY VIC 3149
AUSTRALIA
PHONE : +61 - (0)3 - 9543 - 1522
FAX : +61 - (0)3 - 9543 - 3677

THAILAND

MRZ STANDARD CO., LTD
746 - 754 MAHACHAI ROAD.,
WANGBURAPAPIROM, PHRANAKORN,
BANGKOK, 10200 THAILAND
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FAX : +66 - 2 - 224 6795

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PHONE : +65 6858 5535 / +65 6381 8621
FAX : +65 6858 6078

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AUCKLAND NEW ZEALAND
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TAIPEI, 10429, TAIWAN R.O.C.
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FAX : +886 - 2 - 25630415

MALAYSIA

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2ND FLOOR BANGUNAN INFINITE CENTRE
LOT 1, JALAN 13/6, 46200 PETALING JAYA
SELANGOR DARUL EHSAN, MALAYSIA
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本社 〒228-8505
神奈川県相模原市相模大野7-35-1

KOREA

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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

AUDIO SECTION

Frequency response (DVD : 96kHz)	20-44 kHz
S/N IEC-A	105 dB
Dynamic range	100 dB
T.H.D.	0.005 %
Channel separation 1kHz	95 dB
Audio output (1 kHz, 0 dB)	2.0 V
Digital output (Coaxial)	0.5 Vp-p

VIDEO SECTION

Video output	
Output level	1.0 Vp-p (75 Ω)
Jacks	RCA Jack
S-Video output	
Output level : Y	1.0 Vp-p (75 Ω)
: C	0.286 Vp-p (75 Ω)
Jacks	S-Video Jack
Component video output	
Output level : Y	1.0 Vp-p (75 Ω)
: Cb/Pb	0.7 Vp-p (75 Ω)
: Cr/Pr	0.7 Vp-p (75 Ω)
Jacks	RCA Jack
Euro connector (Scart connector)	
Audio output level (1kHz, 0 dB)	2.0 V
Video output level : R/G/B	0.7 Vp-p (75 Ω)

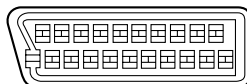
GENERAL

Power Requirement	AC 230V, 50 Hz
Power Consumption	18 W
Maximum external dimensions (W x H x D)	420 x 76 x 320 mm
Weight	3.6 kg
Operating temperature	+5 C° to +35 C°
Operating humidity	5 % to 85 % (no condensation)

21-PIN CONNECTOR ASSIGNMENT

AV connector output 21-pin connector
 This connector provides the video and audio signals for connection to a compatible color TV or monitor.

20 18 16 14 12 10 8 6 4 2



21 19 17 15 13 11 9 7 5 3 1

PI N no.

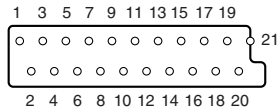
1. Audio R out	8. Status	17. GND
3. Audio L out	11. G out	19. Video out
4. GND	15. R out	21. GND
7. B out	16. RGB SW	

ACCESSORIES

Remote control unit (RC2400DV)	1
Batteries (AAA type)	2
Audio cable (Red/White)	1
Video cable (Yellow)	1
Coaxial cable (Black)	1
Remote cable (Orange)	1
AC power cord	1
Registration card	1
User's guide	1

2. CONNECTION FACILITIES

2.1 Video performance (/N only)



2.1.1 SCART

Pin No. TV (OUT)

Pin 1	Audio R out : 2Vrms
Pin 2	Audio R in : 2Vrms
Pin 3	Audio L out : 2Vrms
Pin 4	GND
Pin 5	GND
Pin 6	Audio L in : 2Vrms
Pin 7	Blue out/C in Blue : 0.7Vpp ±0.1V into 75 Ohm *1 C : 300mVpp ±30 into 75 Ohm *2
Pin 8	function switching out <2V : TV >5/<8 : asp.ratio 16 : 9 DVD/AUX >9.5/<12 : asp.ratio 4 : 3 DVD/AUX
Pin 9	GND
Pin 10	not connected
Pin 11	Green out:0.7Vpp ±0.1V into 75 Ohm *1
Pin 12	not connected
Pin 13	GND
Pin 14	GND
Pin 15	Red/C out Red : 0.7Vpp ±0.1V into 75 Ohm *1 C : 300mVpp ±30 into 75 Ohm *2
Pin 16	fast switching out <0.4V into 75 Ohm=CVBS/S-Video 1</>3 into 75 Ohm=RGB
Pin 17	GND
Pin 18	GND
Pin 19	CVBS/Y out : 1Vpp ±0.1V *1
Pin 20	CVBS/Y in : 1Vpp ±0.1V *1
Pin 21	GND

Pin No. AUX (IN)

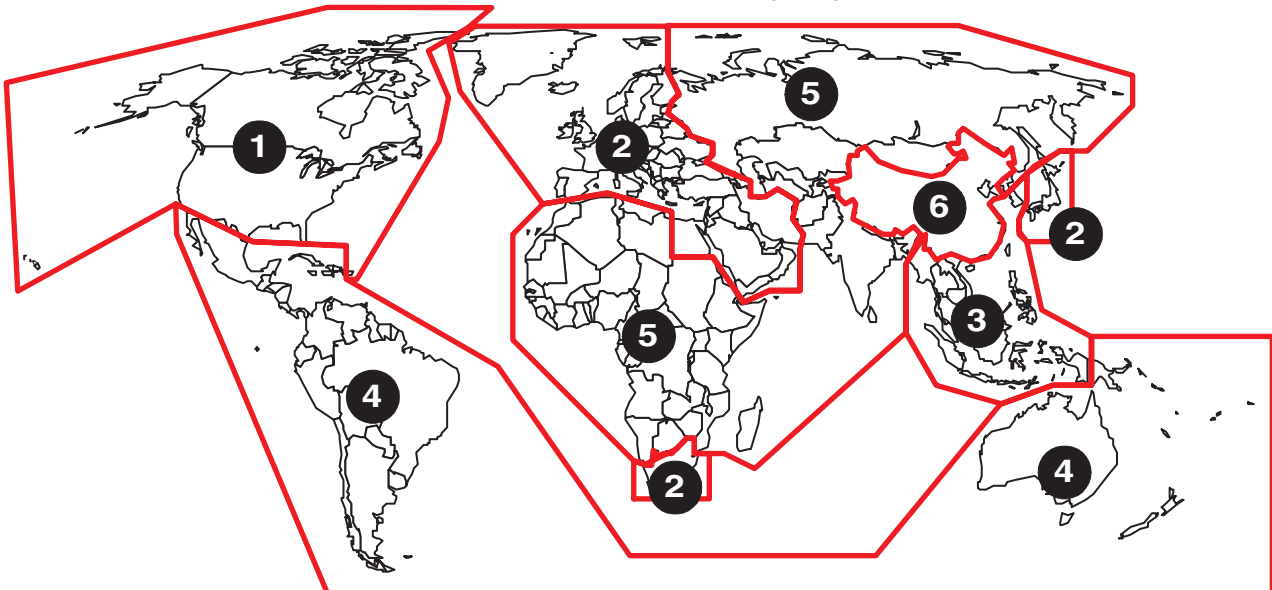
Pin 1	Audio R out : 2Vrms
Pin 2	Audio R in : 2Vrms
Pin 3	Audio L out : 2Vrms
Pin 4	GND
Pin 5	GND
Pin 6	Audio L in : 2Vrms
Pin 7	Blue in/C out Blue : 0.7Vpp ±0.1V into 75 Ohm *1 C : 300mVpp ±30 into 75 Ohm *2
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Pin 14	GND
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Pin 16	fast switching in <0.4V into 75 Ohm=CVBS/S-Video 1</>3 into 75 Ohm=RGB
Pin 17	GND
Pin 18	GND
Pin 19	CVBS/Y out : 1Vpp ±0.1V *1
Pin 20	CVBS/Y in : 1Vpp ±0.1V *1
Pin 21	GND

*1 : 100% White *2 : Burst Level *3 : color bar(chroma level : 75%)

What are "regional codes"?

Motion picture studios want to control the home release of movies in different countries because theater releases aren't simultaneous (a movie may come out on DVD in the US when it's just hitting screens in Europe). Therefore they have required that the DVD standard include codes which can be used to lock out the playback of certain discs in certain geographical regions. Players sold in each region will have that region's code built into the player. The player will refuse to play these "region coded" discs which are not allowed in the region. However, regional codes are entirely optional. Discs without codes will play on any player in any country. Some studios have already announced that only their new releases will have regional codes. There are six regions:

1. United States and Canada
2. Europe and Japan
3. Far East (except Japan & China)
4. South America and Oceania
5. Africa and the Middle East
6. China (except Hong Kong)










Map of DVD Regions

3. INFORMATIONS

ABOUT DISCS

PLAYABLE DISCS

	DVD
 	DVD-R/DVD-RW Finalized DVD disc recorded in the DVD video format.
	Video CD (VCD) / Super Video CD(SVCD)
	Audio CD (CD-DA)
 	CD-R/CD-RW Finalized CD-R and CD-RW discs recorded in the CD-DA format, MP3 format (MP3) or Video-CD format can be played with the unit.

* Finalize is the process to make a DVD-R/DVD-RW or CD-R/CD-RW playable for players (not recorders)

* Some discs may not be able to be played depending on condition of the discs.

NOT PLAYABLE DISCS

- DVD discs whose region number is not "2" nor "ALL".
- DVD-ROM
- DVD-RAM
- DVD-Audio
- CD-ROM
- CDV
- CD-G
- CVD
- Super Audio CD
- CD Photo, etc.






Caution

Some copy-controlled CDs may not conform to official CD standards. They are special discs and may not play on the DV2400.

ABOUT DVD DISCS

Marks on packages

The marks listed below indicate contents in a disc.

	Indicates the number of recorded audio tracks.
	Indicates the number of recorded subtitle languages.
	Indicates the number of recorded angles.
	Indicates the selectable aspect ratios.
	Indicates the region number of the disc.

ABOUT MP3/WMA

MP3 is the compressed music file in MPEG1, Audio Layer 3 format.

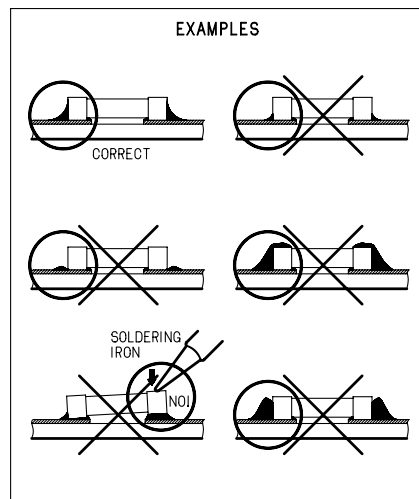
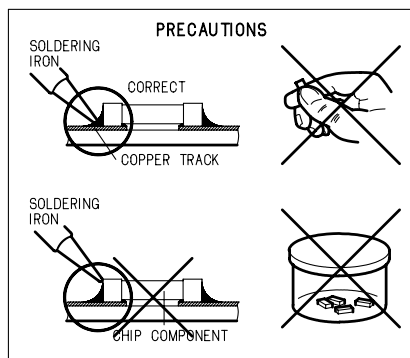
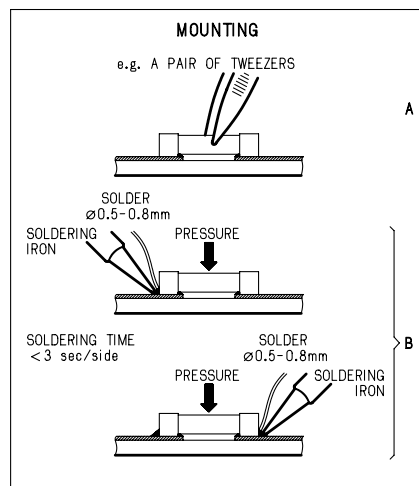
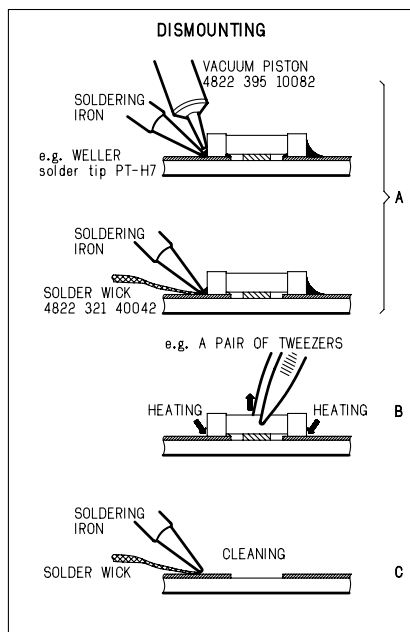
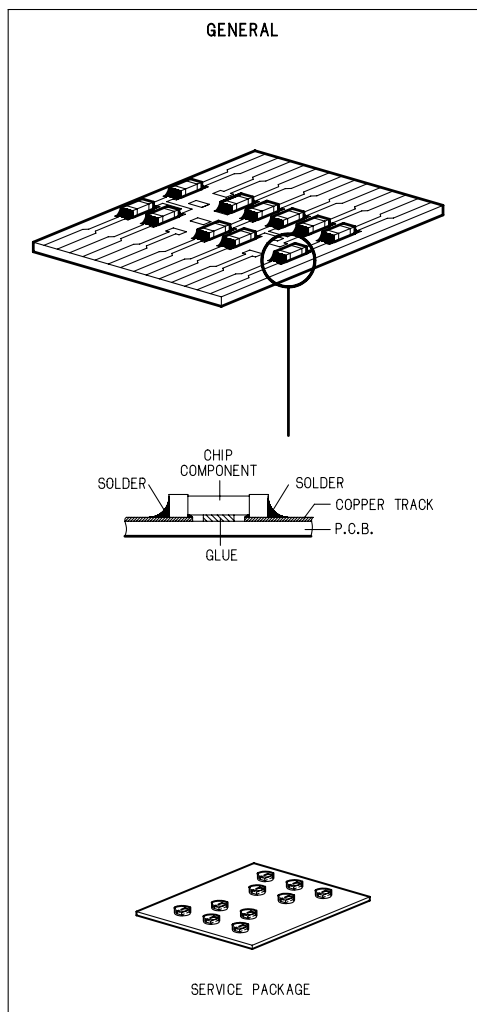
An WMA(Windows Media Audio) file is a Microsoft audio compression technology. WMA offers double the audio compression of the MP3 format.

Microsoft, Windows Media, and the Windows Logo are trademarks or registered trademarks of Microsoft Corporation in both the United States and other countries.



4. SERVICE HINTS AND TOOLS

SERVICE HINTS



SERVICE TOOLS

Audio signals disc	4822 397 30184
Disc without errors (SBC444)+	
Disc with DO errors, black spots and fingerprints (SBC444A)	4822 397 30245
Disc (65 min 1kHz) without no pause	4822 397 30155
Max. diameter disc (58.0 mm)	4822 397 60141
Torx screwdrivers	
Set (straight)	4822 395 50145
Set (square)	4822 395 50132
13th order filter	4822 395 30204
DVD test disc (PAL)	4822 397 10131
DVD test disc (NTSC) ALMEDIO	TDV-540

5. WARNING AND LASER SAFETY INSTRUCTIONS

(GB) WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.

When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance.

Keep components and tools also at this potential.

ESD



(NL) WAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor elektrostatische ontladingen (ESD).

Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen.

Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.

Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

(F) ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD).

Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation.

Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.

Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

(D) WARNUNG

Alle IC und viele andere Halbleiter sind empfindlich gegen elektrostatische Entladungen (ESD).

Unvorsorgfältige Behandlung bei der Reparatur kann die Lebensdauer drastisch vermindern. Sorgen sie dafür, das Sie im Reparaturfall über ein Pulsarmband mit Widerstand mit dem Massepotential des Gerätes verbunden sind.

Halten Sie Bauteile und Hilfsmittel ebenfalls auf diesem Potential.

(I) AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).

La loro longevità potrebbe essere fortemente ridatta in caso di non osservazione della più grande cauzione alla loro manipolazione. Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza.

Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

(GB)

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

(NL)

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt terug gebracht en dat onderdelen, identiek aan de gespecificeerde worden toegepast.

"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne."

(F)

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

(D)

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Gerats darf nicht verändert werden. Für Reparaturen sind Original-Ersatzteile zu verwenden.

(I)

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati pezzi di ricambio identici a quelli specificati.

LASER SAFETY

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.



USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURE OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

AVOID DIRECT EXPOSURE TO BEAM

WARNING

The use of optical instruments with this product will increase eye hazard.

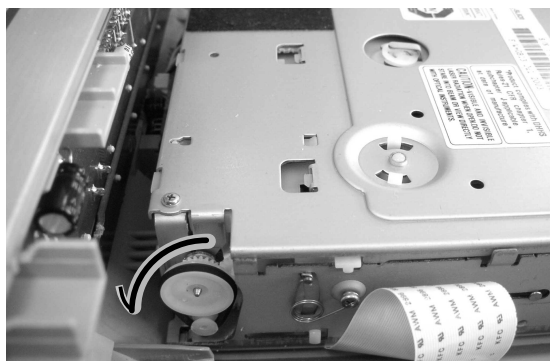
Repair handling should take place as much as possible with a disc loaded inside the player

WARNING LOCATION: INSIDE ON LASER COVERSIELD

CAUTION VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM
ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING UNDGÅ UDSÆTTELSE FOR STRÅLING
ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL Å PNES UNNGÅ EKSPONERING FOR STRÅLEN
VARNING SYNLIG OCH OSYNLIG LASERSTRÅLNING NÅR DENNA DEL ÅR ÖPPNAD BETRakta EJ STRÅLEN
VARO! AVATT AESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LASER SÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN
VORSICHT SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN
DANGER VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID DIRECT EXPOSURE TO BEAM
ATTENTION RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE EXPOSITION DANGEREUSE AU FAISCEAU

6. TAKING THE DISC OUT OF EMERGENCY

1. Remove 6 screws on the top cover and remove the top cover.
2. Turn the gear to the direction with your finger.
3. The disc will out.



7. SERVICE MODE

[1] Micro-Processor (IC91: Front PCB) version check

1. Power is STANDBY mode.
2. While pressing Previous **◀◀** and **ENTER** button on the remote controller over 3 sec.
3. The FLD segments light up one by one.
4. While pressing Previous **◀◀** and **ENTER** button again over 3 sec.
5. The FLD segments stops in the light up position.
6. While pressing Previous **◀◀** and **ENTER** button again over 3 sec.
7. Micro-Processor version is displayed on the front FLD. (Ex.: 2003 10 11)
8. Turn off the power to quit Service Mode.

[2] Firmware (Front-end and Back-end : DVD MECHA PCB MODULE) version check

Connect the DVD player to [TV] and operate by using [Remote controller RC2400DV]

1. Press the **POWER** button to turn on the unit. "NO DISC" is displayed on the front FLD.
2. Press the **CLEAR** button on the remote controller and press **2, 5, 8, 0** and press **CLEAR** button again.
3. The following information is displayed on the TV screen.

The firmware version is shown

(Ex.: BE VER MZA20022
FE VER GB14 031011A0)

```

CHIP ID            T VERSION 3 1 4 3
BE VER            MZA20022 / PAL / W
BUILD TIME        0 3 1 1 0 4
FE VER            GB14 031011A0
                    0
DEFAULT TV        4 : 3 LB / PAL
PLAYABEL DI SC   VCD+MP3

00 : 4D 5A 41 32 30 30 32 32
08 : FF FF FF FF 73 73 00
    
```

[3] Software update

Connect the DVD player to [TV] and operate by using [Remote controller RC2400DV]

1. How to update for Front-end by update DISC.

- 1) Press the **POWER** button to turn on the unit. "NO DISC" is displayed on the front FLD.
- 2) Insert the update CD-ROM (part no.*DV24001CR) in the DISC slot.
- 3) Software updating will be done automatically. When the updating is finished, the update CD-ROM is ejected automatically.
- 4) Remove CD-ROM.
- 5) Wait until "EJECT" is displayed on the TV screen. ("DISC LOADING" then "EJECT" then "NO DISC" are displayed on the TV screen. It takes about 15 seconds for displayed as EJECT)
- 6) The software has been updated.
- 7) Turn off power to quit SERVICE MODE.

Cautions; When interrupted, redo from the start again

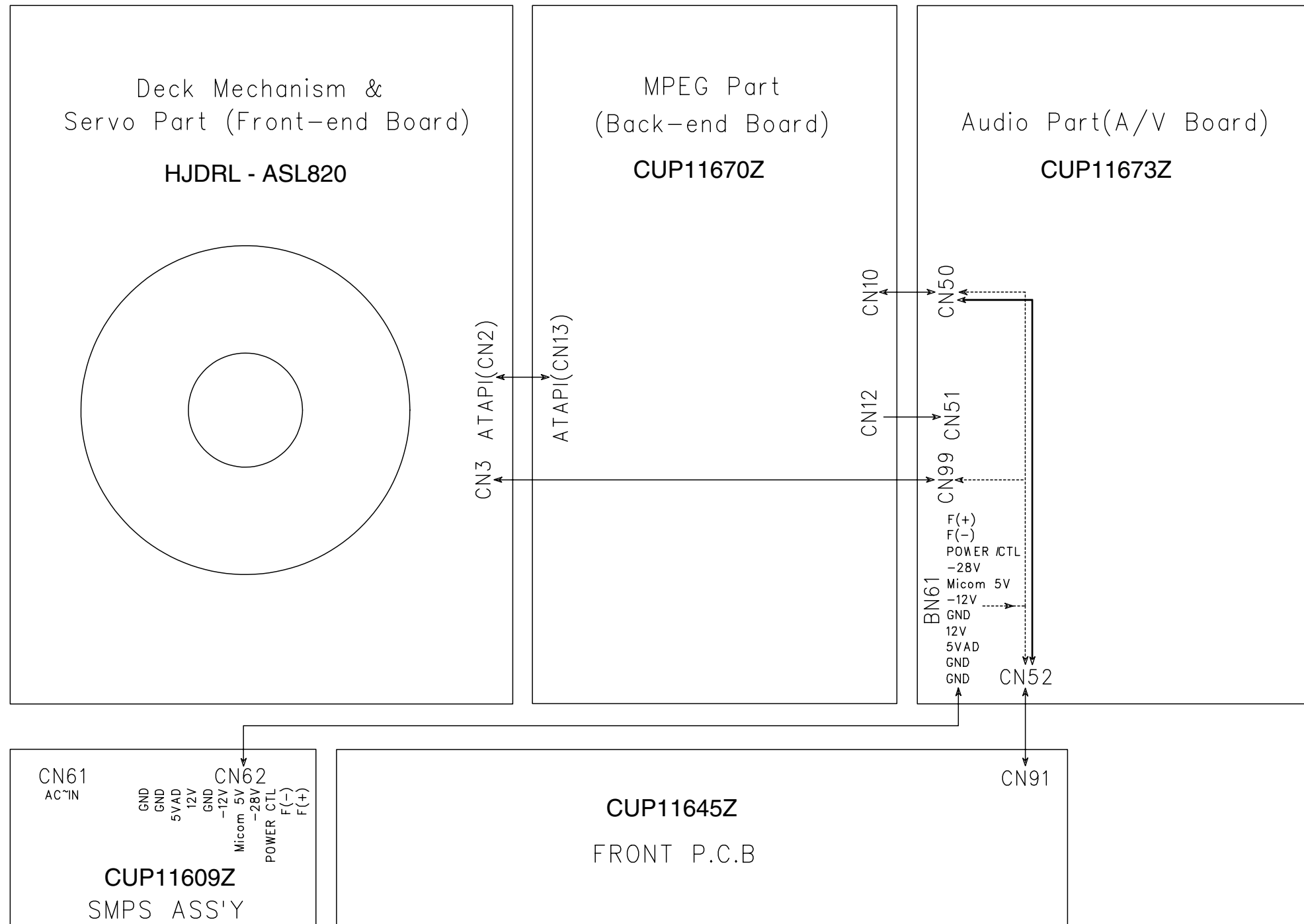
2. How to update for Back-end by update DISC.

- 1) Press the **POWER** button to turn on the unit. "NO DISC" is displayed on the front FLD
- 2) Press the **CLEAR** button on the remote controller and press **2, 5, 8, 0** and press **CLEAR** button again. "TEST-MODE" is displayed on the front FLD
- 3) Insert the update CD-ROM (part no.*DV24002CR) in the DISC slot **half**.
- 4) Press the **PROGRAM** button. The disc is automatically inserted in the unit.
- 5) Software updating will be done automatically. ("ERASE >>>>>>>>>" then "WRITE >>>>>>>>>" then "DONE" are displayed on the TV screen.)
- 7) When the updating is finished, the unit becomes automatic at standby mode.
- 8) Press the **POWER** button to turn on the unit
- 9) Press the **EJECT** button then remove CD-ROM.
- 10) The software has been updated.
- 11) Turn off power to quit SERVICE MODE.

Cautions; When interrupted, please redo from the start again.

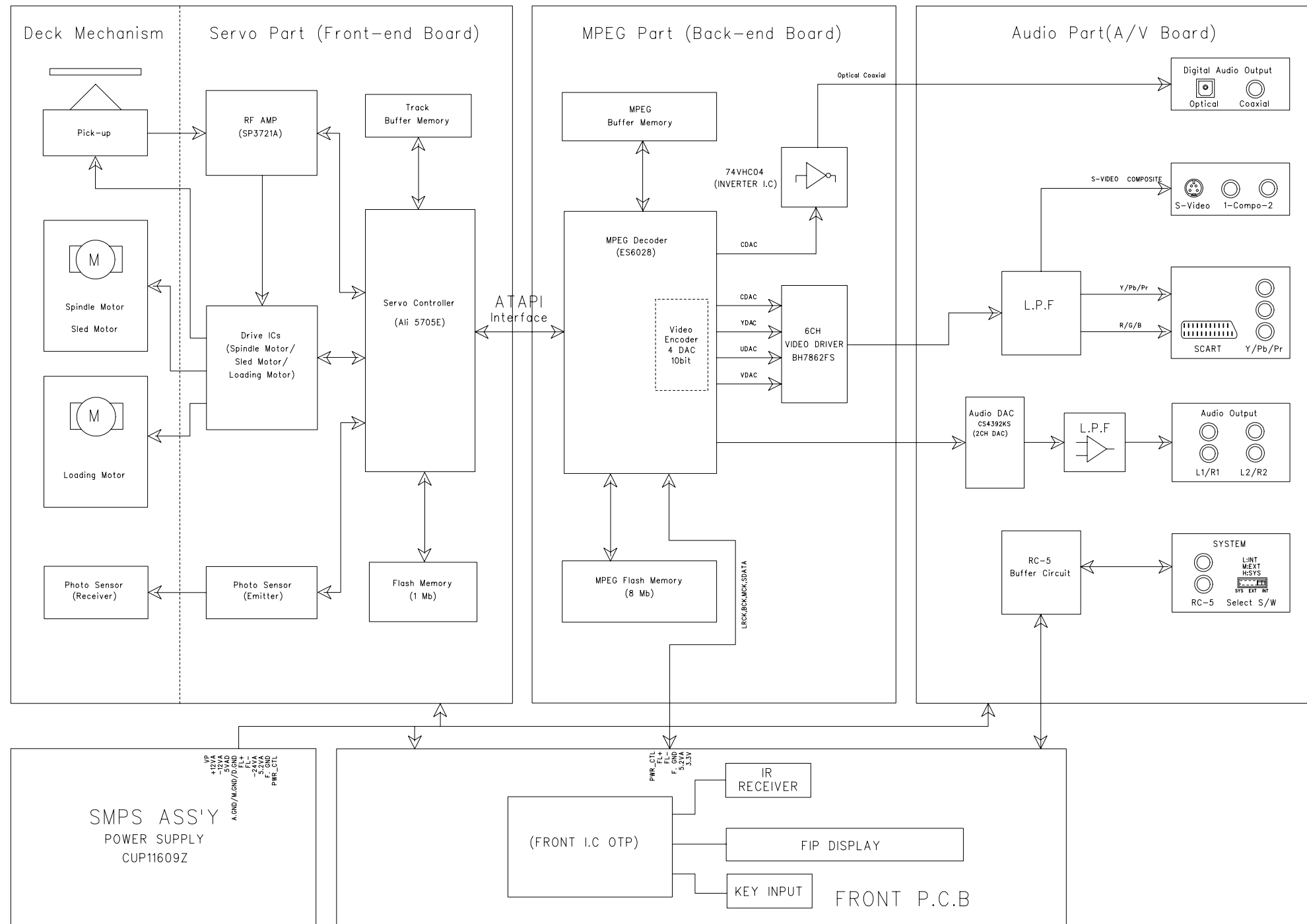
- Firmware update CD-ROM for Front-end*DV24001CR
- Firmware update CD-ROM for Back-end*DV24002CR

8. WIRING DIAGRAM

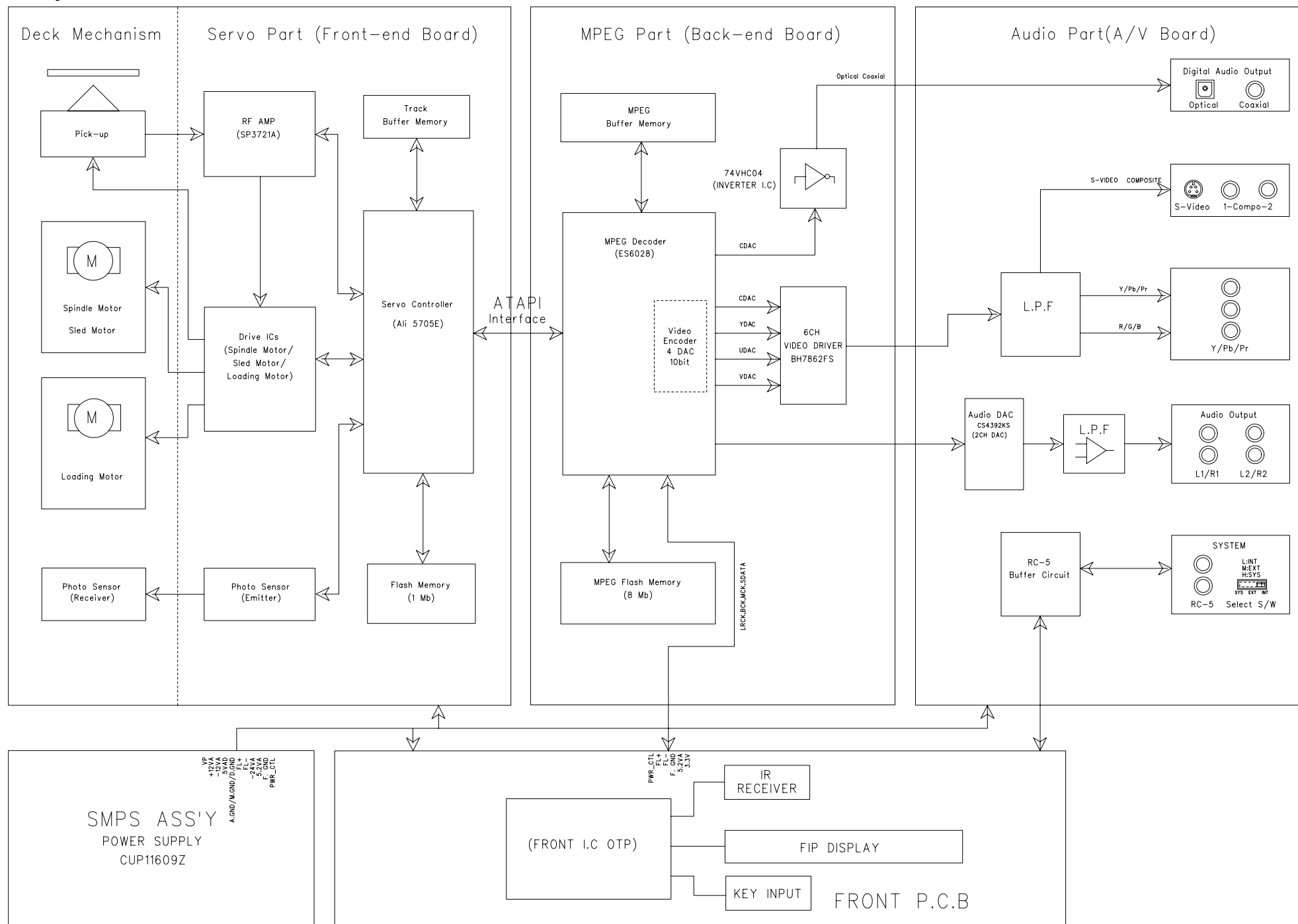


9. BLOCK DIAGRAM

N only

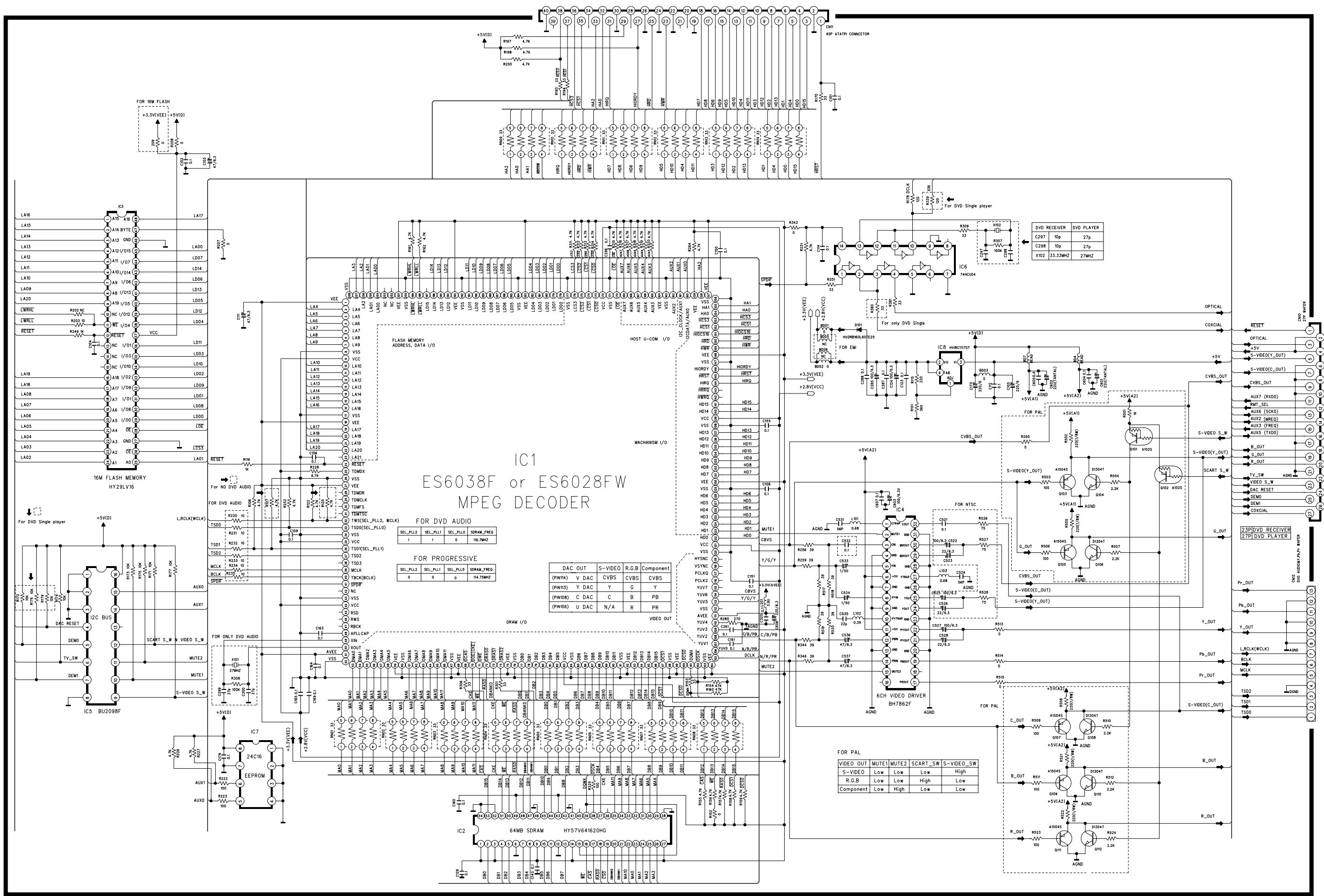


S only

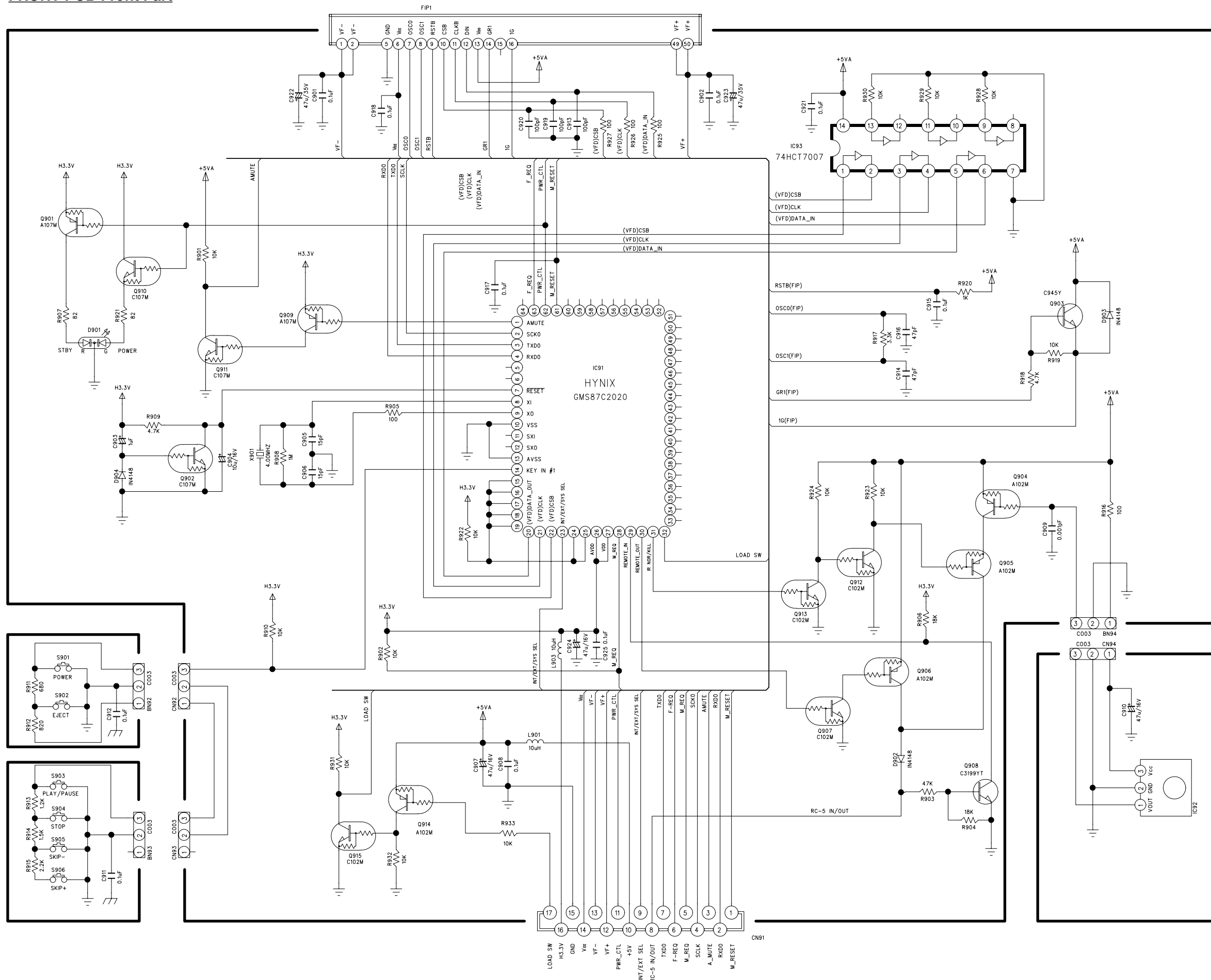


10. SCHEMATIC DIAGRAM

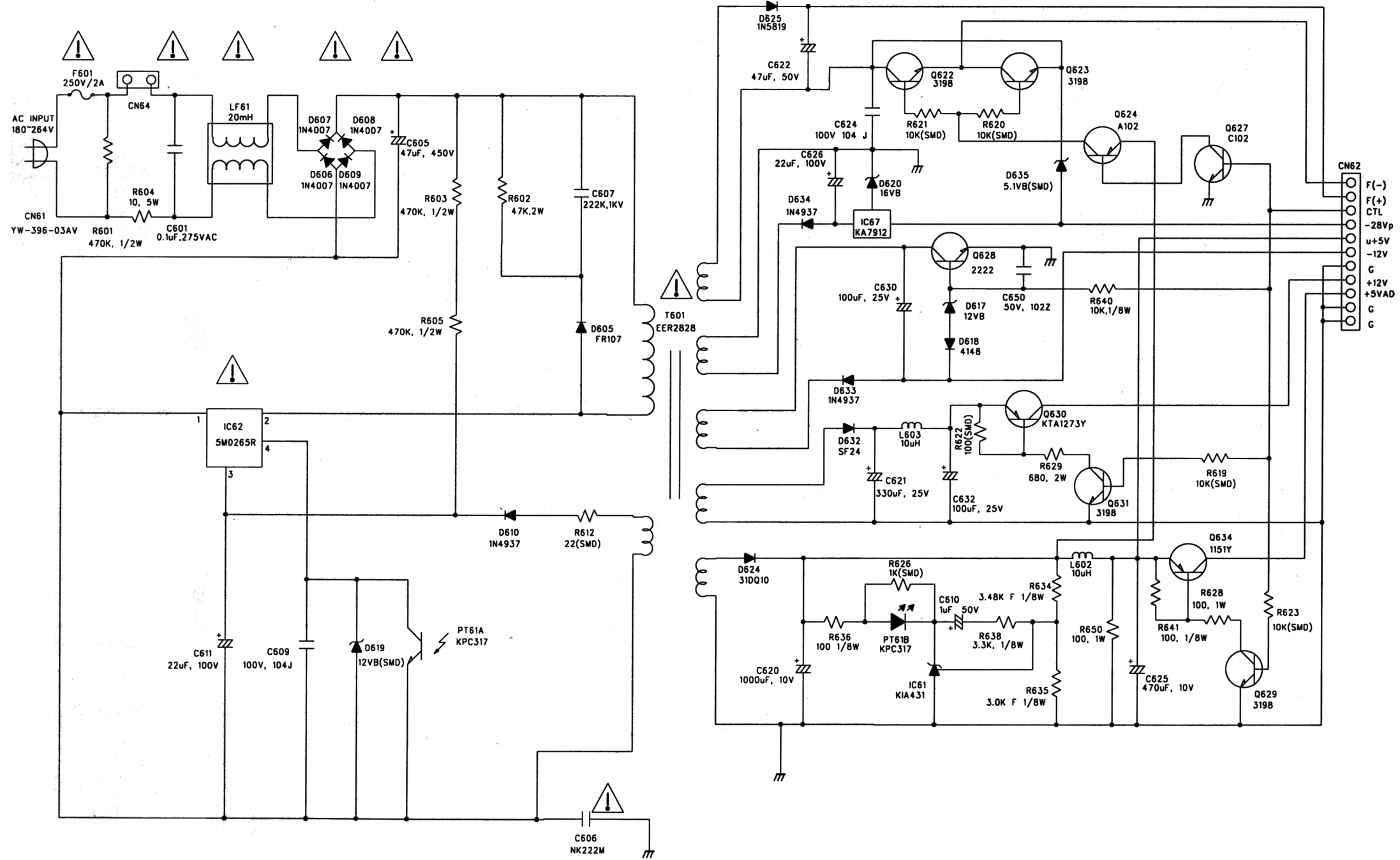
BACK-END PCB MPEG Part



FRONT PCB Front Part



SMPS ASS'Y



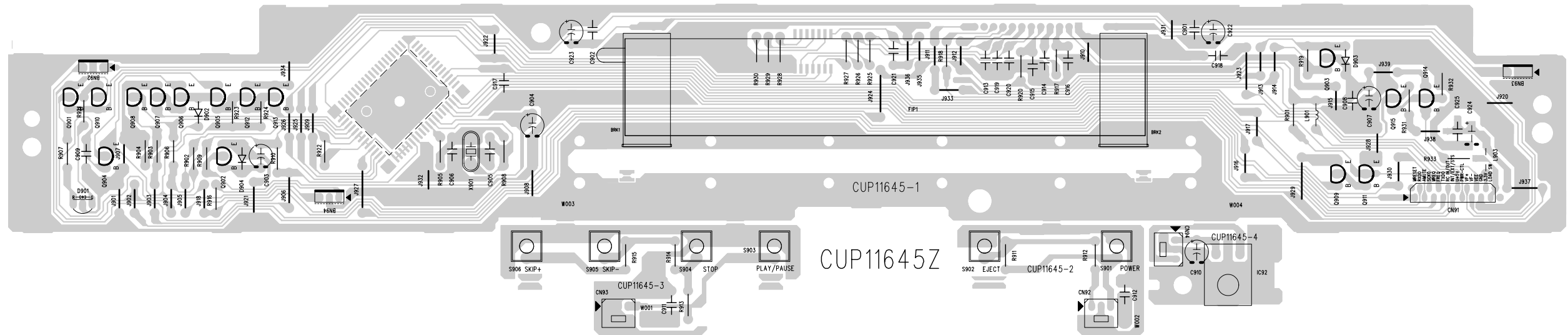
11. PARTS LOCATION

FRONT

Q901 Q910 Q908 - Q905 Q912 Q913
Q904 Q902

IC92

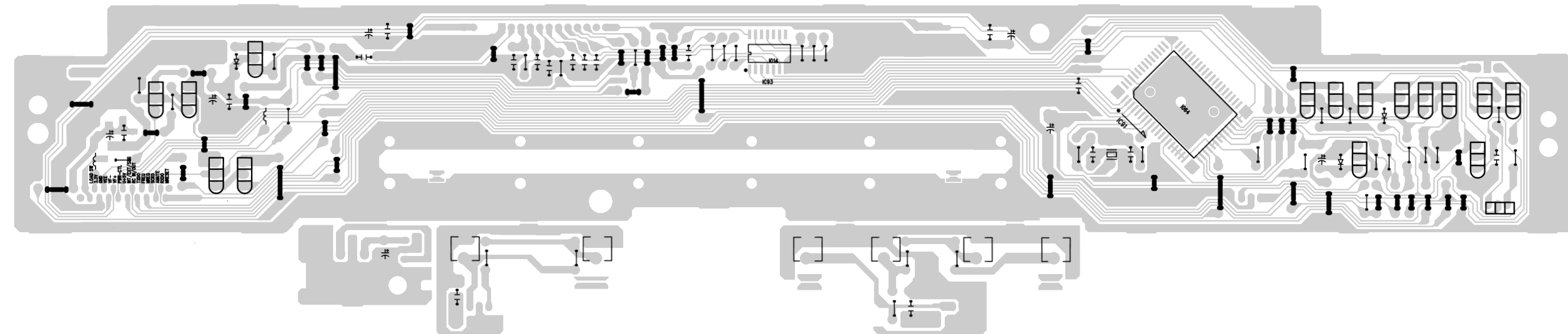
Q903 Q915 Q914
Q909 Q911



FRONT

IC93

IC91



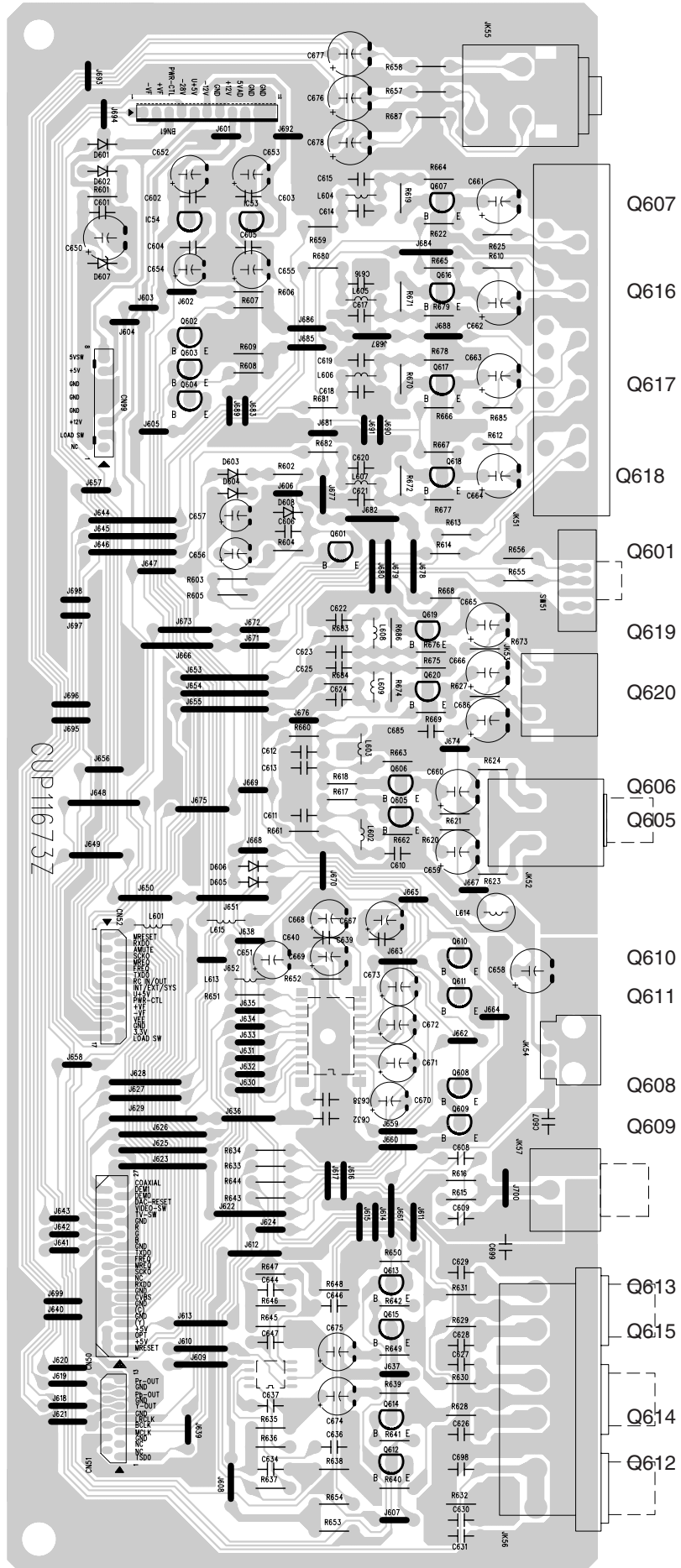
IC54 IC53

Q602

Q603

Q604

CUP116737



Q607

Q616

Q617

Q618

Q601

Q619

Q620

Q606

Q605

Q610

Q611

Q608

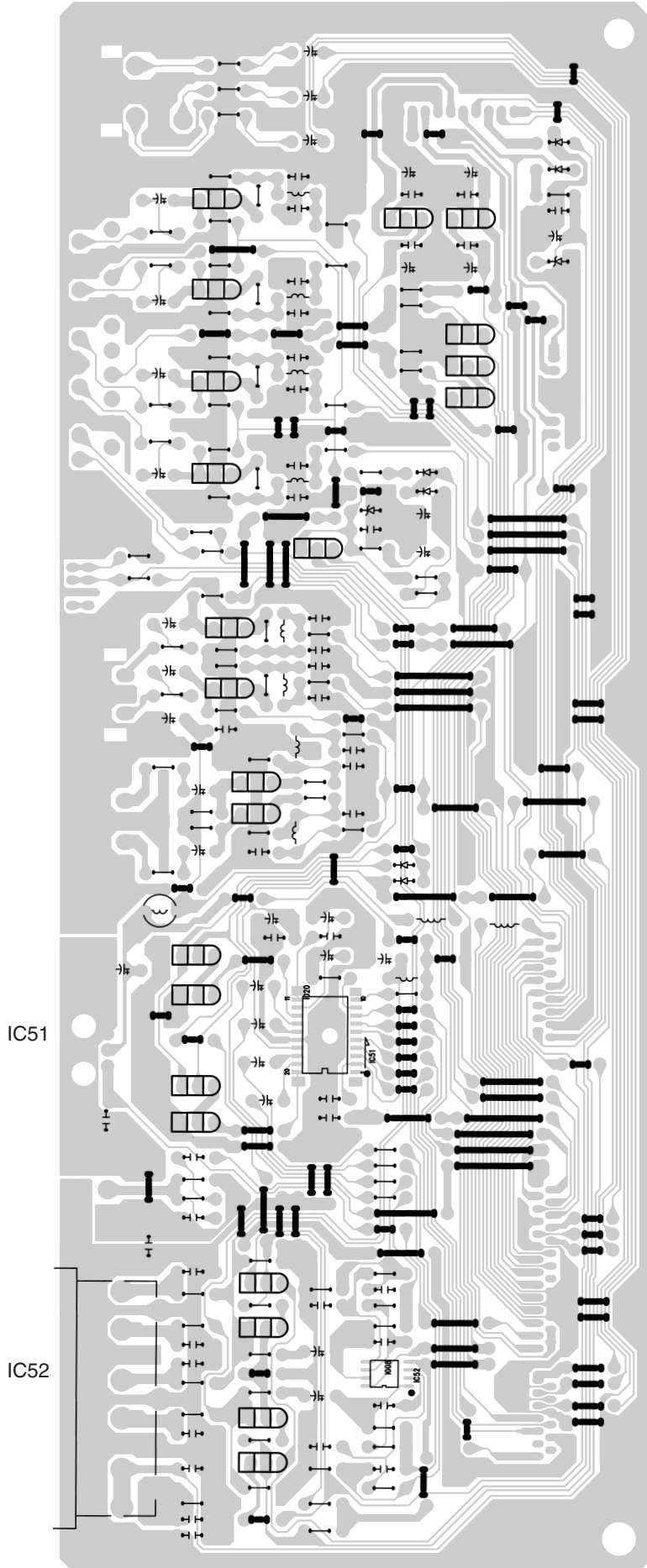
Q609

Q613

Q615

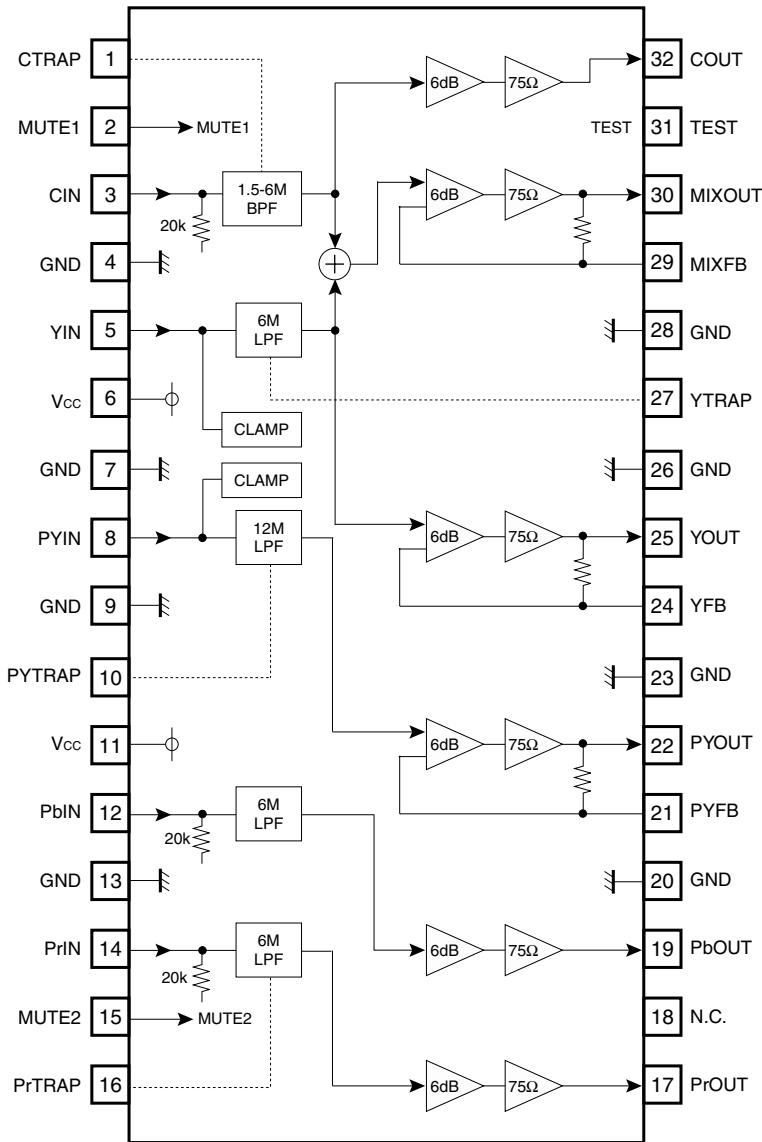
Q614

Q612



12. MICROPROCESSOR AND IC DATA

IC4: BH7862FS

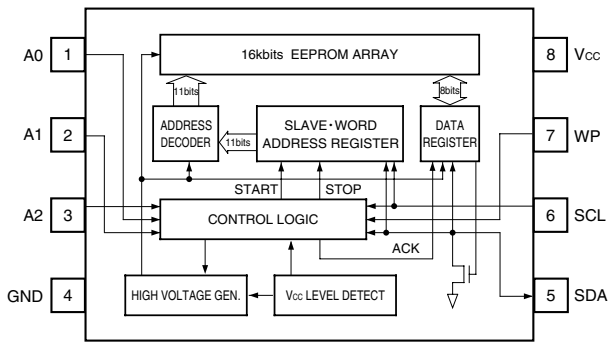


Pin No.	Pin name	Input/output equivalent circuit	Pin description
3 12 14	CIN PbIN PrIN		Signal input terminal. Input terminal for chroma signal and color-difference signal. Bias type input. The input impedance is 20kΩ.
5 8	YIN PYIN		Signal input terminal. Input terminal for luminance signal. Di clamp input.
32	COUT		Signal output terminal. Output terminal for chroma signal.
29 30	MIXFB MIXOUT		Signal output terminal. Output terminal for Y/C MIX signal.
24 25	YFB YOUT		Signal output terminal. Output terminal for luminance signal (interlaced type).

Pin No.	Pin name	Input/output equivalent circuit	Pin description
21 22	PYFB PYOUT		Signal output terminal. Output terminal for luminance signal (progressive type).
17 19	PbOUT PbOUT		Signal output terminal. Output terminal for color-difference signal.
1 27 10 16	CTRAP YTRAP PYTRAP PrTRAP		Terminal for LC resonance.
6 11	Vcc		Power supply voltage. Vcc is separated into 6 pin and 11 pin. That is to say, C, MIX and Y are partitioned by 6 pin and PY, Pb and Pr by 11 pin. They are not connected internally. Connect them externally when using.
4 7 9 13 20 23 26 28	GND		Grounding terminal.
2	MUTE1		Mute control terminal. C, MIX and Y are muted simultaneously by setting MUTE to "L".

Pin No.	Pin name	Input/output equivalent circuit	Pin description
12	MUTE2		Mute control terminal. PY, Pb and Pr are muted simultaneously by setting MUTE to "L".
31	TEST		Test terminal. Usually, short-circuit this terminal to GND when using it.
18	N.C.		

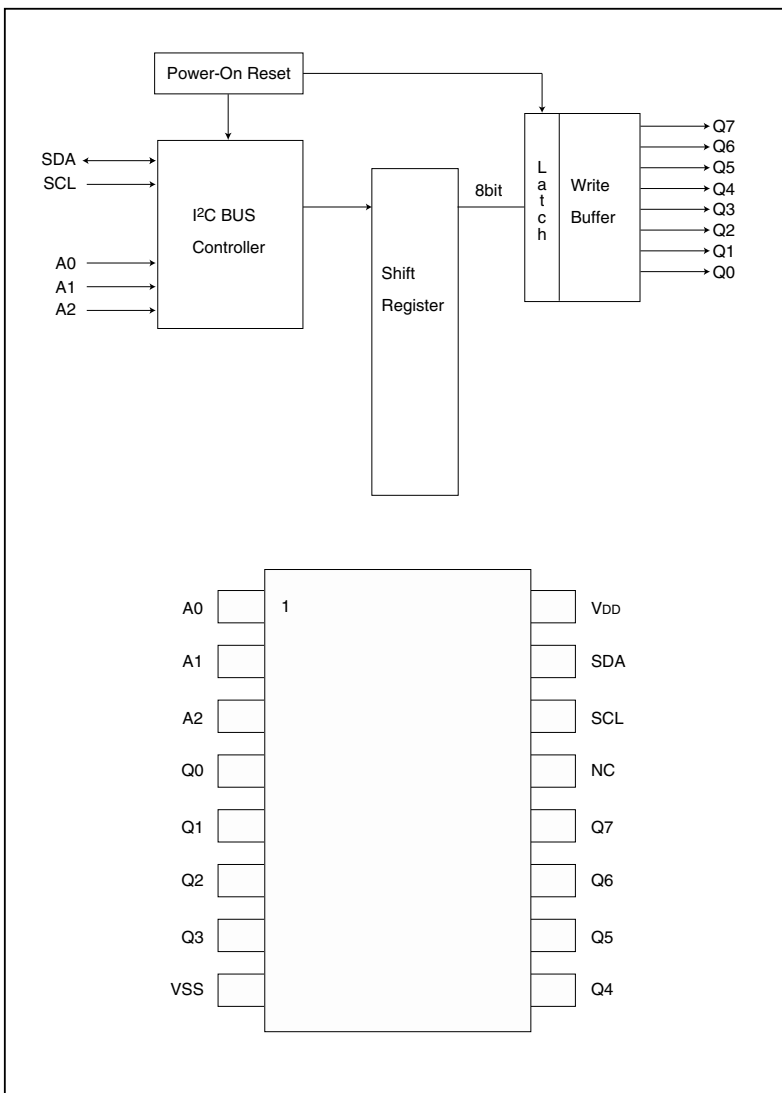
IC7:BR24C16



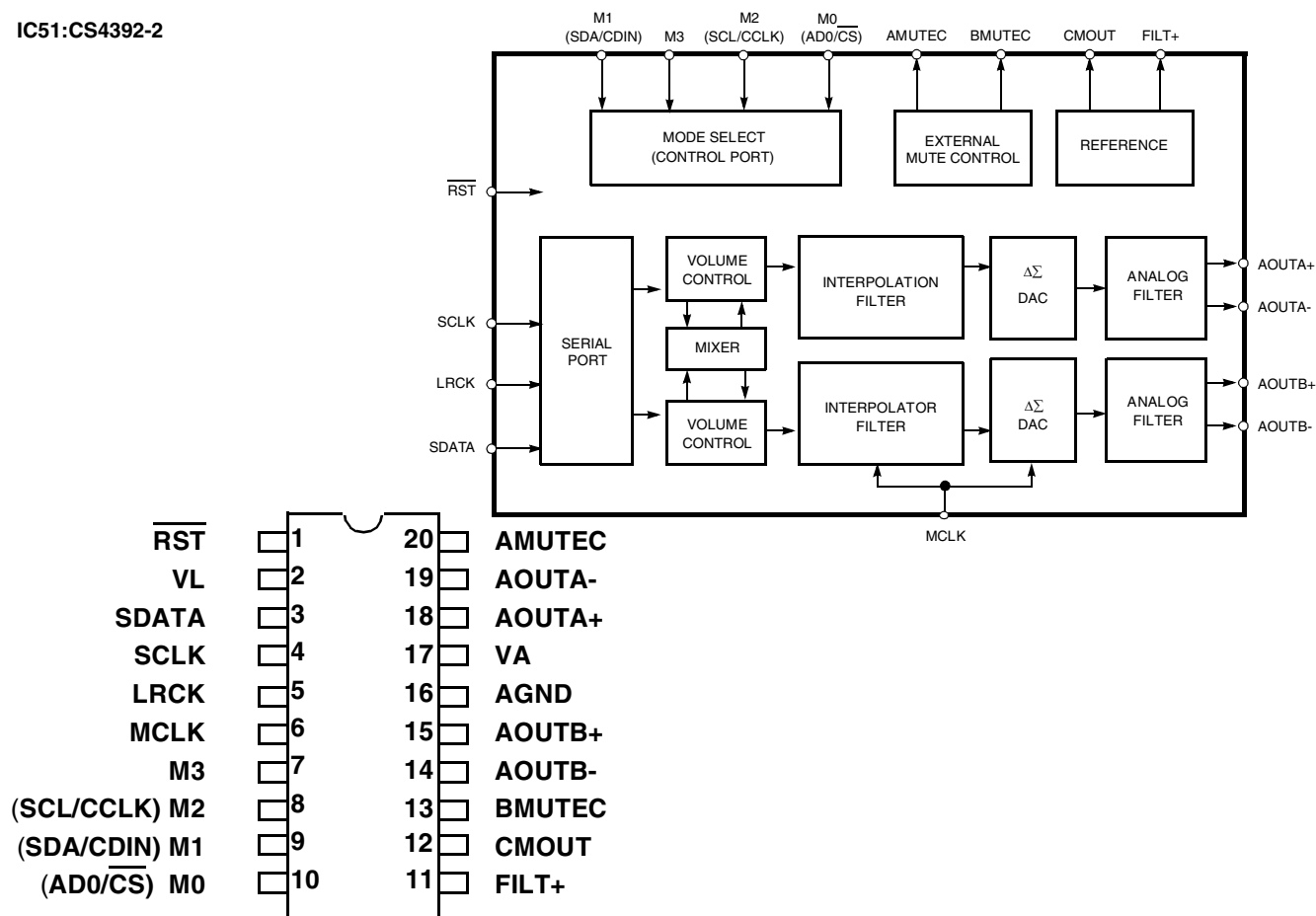
Pin name	I / O	Function
Vcc		Power supply
GND		Ground (0V)
A0, A1, A2	I	Out of use. Please connect to GND.
SCL	I	Serial clock input
SDA	I / O	Slave and word address, serial data input, serial data output
WP	I	Write protect pin

An open drain output requires a pull-up resistor.

IC5:BU2098F-J



Pin No.	Pin name	Type	Function
1-3	A0~A2	I	Input of an address (pull-up is being done inside)
4-7 9-12	Q0~Q7	O	Open Drain output
8	VSS	-	GND
13	NC	-	N.C.
14	SCL	I	Cereal clock input
15	SDA	I / O	Cereal data input / output
16	VDD	-	Power supply



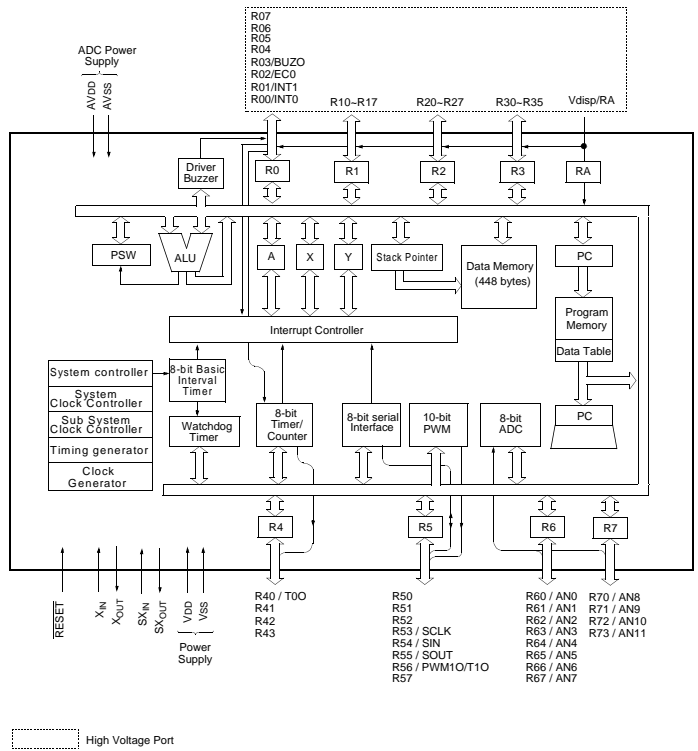
$\overline{\text{RST}}$	1	Reset (Input) - Powers down device and resets all internal registers to their default settings.
VL	2	Logic Power (Input) - Positive power for the digital input/output.
SDATA	3	Serial Audio Data (Input) - Input for two's complement serial audio data.
SCLK	4	Serial Clock (Input/Output) - Serial clock for the serial audio interface.
LRCK	5	Left Right Clock (Input/Output) - Determines which channel, Left or Right, is currently active on the serial audio data line.
MCLK	6	Master Clock (Input) - Clock source for the delta-sigma modulator and digital filters.
FILT+	11	Positive Voltage Reference (Output) - Positive reference voltage for the internal sampling circuits.
CMOUT	12	Common Mode Voltage (Output) - Filter connection for internal quiescent voltage.
AMUTEC	20	Mute Control (Output) - The Mute Control pin goes high during power-up initialization, reset, muting, power-down or if the master clock to left/right clock frequency ratio is incorrect.
BMUTEC	13	
AOUTB-	14	Differential Analog Output (Outputs) - The full scale differential analog output level is specified in the Analog Characteristics specification table.
AOUTB+	15	
AOUTA+	18	
AOUTA-	19	
AGND	16	Ground (Input)
VA	17	Analog Power (Input) - Positive power for the analog section.

Control Port Mode Definitions

M3	7	Mode Selection (Input) - This pins should be tied to GND level during control port mode.
SCL/CCLK	8	Serial Control Port Clock (Input) - Serial clock for the serial control port.
SDA/CDIN	9	Serial Control Data (Input/Output) - SDA is a data I/O line in I ² C mode. CDIN is the input data line for the control port interface in SPI mode.
AD0/ $\overline{\text{CS}}$	10	Address Bit 0 (I²C) / Control Port Chip Select (SPI) (Input/Output) - AD0 is a chip address pin in I ² C mode; $\overline{\text{CS}}$ is the chip select signal for SPI format.

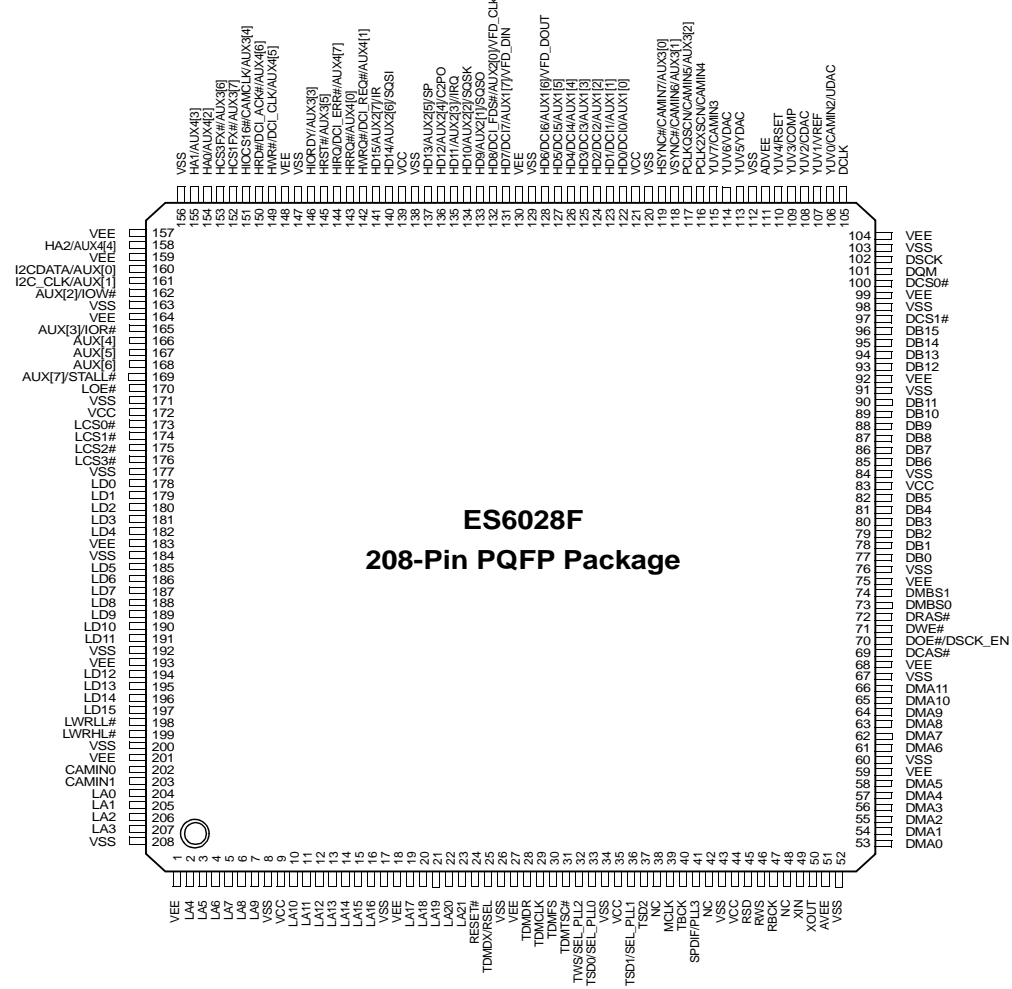
Stand-Alone Mode Definitions

M3	7	Mode Selection (Input) - Determines the operational mode of the device.
M2	8	
M1	9	
M0	10	



Pin No.	Symbol	Description
1	AMUTE	AMUTE
2	SCKO	SCKO
3	TXDO	TXDO
4	RXDO	RXDO
5~6	No Connect	-
7	RESET	RESET
8	XI	4MHz Crystal Connection port
9	XO	
10	VSS	GND
11~12	No Connect	-
13	AVSS	GND
14	KEY IN #1	-
15~19	No Connect	-
20	(VFD)DATA_OUT	VFD Control Port
21	(VFD)CLK	
22	(VFD)CSB	
23	INT/EXT/SYS SEL	INT/EXT/SYS Select Port
24~25	3.3V	3.3V
26	AVDD	3.3V
27	VDD	3.3V
28	M_REQ	M_REQ Port
29	REMOTE_IN	Remocon Censor Control
30	REMOTE_OUT	
31	IR NOR/KILL	IR NOR/KILL
32~60	No Connect	-
61	M_RESET	M_RESET Port
62	PWR_CTL	Power Control Port
63	F_REQ	F_REQ Port
64	No Connect	-

IC1:ES6028



ES6028 PIN DESCRIPTION

Table 1 lists the pin descriptions for the ES6028.

Name	Pin Numbers	I/O	Definition																																				
VEE	1,18, 27, 59, 68, 75, 92, 99, 104, 130, 148, 157, 159, 164, 183, 193, 201	I	I/O power supply.																																				
LA[21:0]	2,7, 10,16, 19,23, 204,207	O	RISC port address bus.																																				
VSS	8, 17, 26, 34, 43, 52, 60, 67, 78, 84, 91, 98, 103, 112, 120, 129, 138, 147, 156, 163, 171, 177, 184, 192, 200, 208	I	Ground.																																				
VCC	9, 35, 44, 83, 121, 139, 172	I	Core power supply.																																				
RESET#	24	I	Reset input, active-low.																																				
TDMDX		O	TDM transmit data output.																																				
RSEL	25	I	LCS3 ROM Boot Data Width Select. Strapped to VCC or ground via 4.7-kΩ resistor; read only during reset. <table border="1"> <thead> <tr> <th>RSEL</th> <th>Selection</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>16-bit ROM</td> </tr> <tr> <td>1</td> <td>8-bit ROM</td> </tr> </tbody> </table>	RSEL	Selection	0	16-bit ROM	1	8-bit ROM																														
RSEL	Selection																																						
0	16-bit ROM																																						
1	8-bit ROM																																						
TDMDR	28	I	TDM receive data input.																																				
TDMLCK	29	I	TDM clock input.																																				
TDMF5	30	I	TDM frame sync input.																																				
TDMTSC#	31	O	TDM output enable.																																				
TWS		O	Audio transmit frame sync output.																																				
SEL_PLL2	32	I	System and DSCK output clock frequency selection is made at the rising edge of RESET#. The matrix below lists the available clock frequencies and their respective PLL bit settings. Strapped to VCC or ground via 4.7-kΩ resistor; read only during reset. <table border="1"> <thead> <tr> <th>SEL_PLL2</th> <th>SEL_PLL1</th> <th>SEL_PLL0</th> <th>Clock Type</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> <td>DCLK x 4.25</td> </tr> <tr> <td>0</td> <td>0</td> <td>1</td> <td>Reserved</td> </tr> <tr> <td>0</td> <td>1</td> <td>0</td> <td>Bypass mode</td> </tr> <tr> <td>0</td> <td>1</td> <td>1</td> <td>DCLK x 3.75</td> </tr> <tr> <td>1</td> <td>0</td> <td>0</td> <td>DCLK x 4.5</td> </tr> <tr> <td>1</td> <td>0</td> <td>1</td> <td>Reserved</td> </tr> <tr> <td>1</td> <td>1</td> <td>0</td> <td>DCLK x 3.5</td> </tr> <tr> <td>1</td> <td>1</td> <td>1</td> <td>DCLK x 4</td> </tr> </tbody> </table>	SEL_PLL2	SEL_PLL1	SEL_PLL0	Clock Type	0	0	0	DCLK x 4.25	0	0	1	Reserved	0	1	0	Bypass mode	0	1	1	DCLK x 3.75	1	0	0	DCLK x 4.5	1	0	1	Reserved	1	1	0	DCLK x 3.5	1	1	1	DCLK x 4
SEL_PLL2	SEL_PLL1	SEL_PLL0	Clock Type																																				
0	0	0	DCLK x 4.25																																				
0	0	1	Reserved																																				
0	1	0	Bypass mode																																				
0	1	1	DCLK x 3.75																																				
1	0	0	DCLK x 4.5																																				
1	0	1	Reserved																																				
1	1	0	DCLK x 3.5																																				
1	1	1	DCLK x 4																																				

Table 1 ES6028 Pin Description (Continued)

Name	Pin Numbers	I/O	Definition																																																																																
YUV0		O	YUV0 pixel output data.																																																																																
CAMIN2		I	Camera input 2.																																																																																
UDAC	106	O	Video DAC output. <table border="1"> <thead> <tr> <th>Pin</th> <th>114</th> <th>113</th> <th>108</th> <th>106</th> </tr> </thead> <tbody> <tr> <td>Value</td> <td>DAC V</td> <td>DAC Y</td> <td>DAC C</td> <td>DAC U</td> </tr> <tr> <td>0</td> <td>CVBS1</td> <td>Y</td> <td>C</td> <td>N/A</td> </tr> <tr> <td>1</td> <td>CVBS1</td> <td>Y</td> <td>C</td> <td>CVBS2</td> </tr> <tr> <td>2</td> <td>N/A</td> <td>Y</td> <td>C</td> <td>N/A</td> </tr> <tr> <td>3</td> <td>CVBS1</td> <td>N/A</td> <td>N/A</td> <td>CVBS2</td> </tr> <tr> <td>4</td> <td>CVBS1</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>5</td> <td>CVBS1</td> <td>Y</td> <td>Pb</td> <td>Pr</td> </tr> <tr> <td>6</td> <td>N/A</td> <td>Y</td> <td>Pb</td> <td>Pr</td> </tr> <tr> <td>7</td> <td>SYNC</td> <td>G</td> <td>B</td> <td>R</td> </tr> <tr> <td>8</td> <td>CHROMA</td> <td>Y</td> <td>Pb</td> <td>Pr</td> </tr> <tr> <td>9</td> <td>CVBS1</td> <td>G</td> <td>B</td> <td>R</td> </tr> <tr> <td>10</td> <td>CVBS1</td> <td>G</td> <td>R</td> <td>B</td> </tr> <tr> <td>11</td> <td>SYNC</td> <td>G</td> <td>R</td> <td>B</td> </tr> <tr> <td>12</td> <td>N/A</td> <td>Y</td> <td>Pr</td> <td>Pb</td> </tr> <tr> <td>13</td> <td>CVBS1</td> <td>Y</td> <td>Pr</td> <td>Pb</td> </tr> </tbody> </table> <p>Y: Luma component for YUV and Y/C processing. C: Chrominance signal for Y/C processing. U: Chrominance component signal for YUV mode. V: Chrominance component signal for YUV mode.</p>	Pin	114	113	108	106	Value	DAC V	DAC Y	DAC C	DAC U	0	CVBS1	Y	C	N/A	1	CVBS1	Y	C	CVBS2	2	N/A	Y	C	N/A	3	CVBS1	N/A	N/A	CVBS2	4	CVBS1	N/A	N/A	N/A	5	CVBS1	Y	Pb	Pr	6	N/A	Y	Pb	Pr	7	SYNC	G	B	R	8	CHROMA	Y	Pb	Pr	9	CVBS1	G	B	R	10	CVBS1	G	R	B	11	SYNC	G	R	B	12	N/A	Y	Pr	Pb	13	CVBS1	Y	Pr	Pb
Pin	114	113	108	106																																																																															
Value	DAC V	DAC Y	DAC C	DAC U																																																																															
0	CVBS1	Y	C	N/A																																																																															
1	CVBS1	Y	C	CVBS2																																																																															
2	N/A	Y	C	N/A																																																																															
3	CVBS1	N/A	N/A	CVBS2																																																																															
4	CVBS1	N/A	N/A	N/A																																																																															
5	CVBS1	Y	Pb	Pr																																																																															
6	N/A	Y	Pb	Pr																																																																															
7	SYNC	G	B	R																																																																															
8	CHROMA	Y	Pb	Pr																																																																															
9	CVBS1	G	B	R																																																																															
10	CVBS1	G	R	B																																																																															
11	SYNC	G	R	B																																																																															
12	N/A	Y	Pr	Pb																																																																															
13	CVBS1	Y	Pr	Pb																																																																															
YUV1	107	O	YUV1 pixel output data.																																																																																
VREF		I	Internal voltage reference to video DAC. Bypass to ground with 0.1-μF capacitor.																																																																																
YUV2	108	O	YUV2 pixel output data.																																																																																
CDAC		O	Video DAC output. Refer to description and matrix for UDAC pin 106.																																																																																
YUV3	109	O	YUV3 pixel output data.																																																																																
COMP		I	Compensation input. Bypass to ADVEE with 0.1-μF capacitor.																																																																																
YUV4	110	O	YUV4 pixel output data.																																																																																
RSET		I	DAC current adjustment resistor input.																																																																																
ADVEE	111	I	Analog power for video DAC.																																																																																
YUV5		O	YUV5 pixel output data.																																																																																
VDAC	113	O	Video DAC output. Refer to description and matrix for UDAC pin 106.																																																																																

Table 1 ES6028 Pin Description (Continued)

Name	Pin Numbers	I/O	Definition						
TS00		O	Audio transmit serial data port 0.						
SEL_PLL0	33	I	Refer to the description and matrix for SEL_PLL2 pin 32.						
TS01		O	Audio transmit serial data port 1.						
SEL_PLL1	36	I	Refer to the description and matrix for SEL_PLL2 pin 32.						
TS02		O	Audio transmit serial data port 2.						
NC	38, 42, 48	—	No connect pins. Leave open.						
MCLK	39	I/O	Audio master clock for audio DAC.						
TBCK	40	O	Audio transmit bit clock.						
SPDIF		O	S/PDIF output. <table border="1"> <thead> <tr> <th>SEL_PLL3</th> <th>Clock Source</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Crystal oscillator</td> </tr> <tr> <td>1</td> <td>DCLK input</td> </tr> </tbody> </table>	SEL_PLL3	Clock Source	0	Crystal oscillator	1	DCLK input
SEL_PLL3	Clock Source								
0	Crystal oscillator								
1	DCLK input								
RSD	45	I	Audio receive serial data.						
RWS	46	I	Audio receive frame sync.						
RBCK	47	I	Audio receive bit clock.						
XIN	49	I	27-MHz crystal input.						
XOUT	50	O	27-MHz crystal output.						
AVEE	51	I	Analog power for PLL.						
DMA[11:0]	53,58, 61:66	O	DRAM address bus.						
DCAS#	69	O	DRAM column address strobe.						
DOE#		O	DRAM output enable.						
DSC EN	70	O	DRAM clock enable.						
DWE#	71	O	DRAM write enable.						
DRAS#	72	O	DRAM row address strobe.						
DMBS0	73	O	SDRAM bank select 0.						
DMBS1	74	O	SDRAM bank select 1.						
DB[15:0]	77:82, 85:90, 93:96	I/O	DRAM data bus.						
DCS[1:0]#	97,100	O	SDRAM chip select.						
DQM	101	O	Data input/output mask.						
DSC	102	O	Output clock to SDRAM.						
DCLK	105	I	Clock input to PLL.						

Table 1 ES6028 Pin Description (Continued)

Name	Pin Numbers	I/O	Definition
YUV6	114	O	YUV6 pixel output data.
VDAC		O	Video DAC output. Refer to description and matrix for UDAC pin 106.
YUV7	115	O	YUV7 pixel output data.
CAMIN3		I	Camera YUV 3.
PCLK2XSCN	116	I/O	27-MHz video output pixel clock.
CAMIN4		I	Camera YUV 4.
PCLK0SCN		O	13.5-MHz video output pixel clock.
CAMIN5	117	I	Camera YUV 5.
AUX[3:2]		I/O	Aux3 data I/O.
VSYNCS#		I/O	Vertical sync, active-low.
CAMIN6	118	I	Camera YUV 6.
AUX[3:1]		I/O	Aux3 data I/O.
HSYNCS#		I/O	Horizontal sync, active-low.
CAMIN7	119	I	Camera YUV 7.
AUX[3:0]		I/O	Aux3 data I/O.
HD[5:0]		I/O	Host data bus lines 5:0.
DCI[5:0]	122:127	I/O	DVD channel data I/O.
AUX[15:0]		I/O	Aux1 data I/O.
HD[6]		I/O	Host data bus line 6.
DCI[6]	128	I/O	DVD channel data I/O.
AUX[16]		I/O	Aux1 data I/O.
VFD_DOUT		I	VFD data output.
HD[7]		I/O	Host data bus line 7.
DCI[7]	131	I/O	DVD channel data I/O.
AUX[17]		I/O	Aux1 data I/O.
VFD_DIN		I	VFD data input.
HD[8]		I/O	Host data bus line 8.
DCI_FDS#		I/O	DVD input sector start.
AUX[2:0]	132	I/O	Aux2 data I/O.
VFD_CLK		I	VFD clock input.
HD[9]		I/O	Host data bus line 9.
AUX[2:1]	133	I/O	Aux2 data I/O.
SQSQ		I	Subcode-Q data.

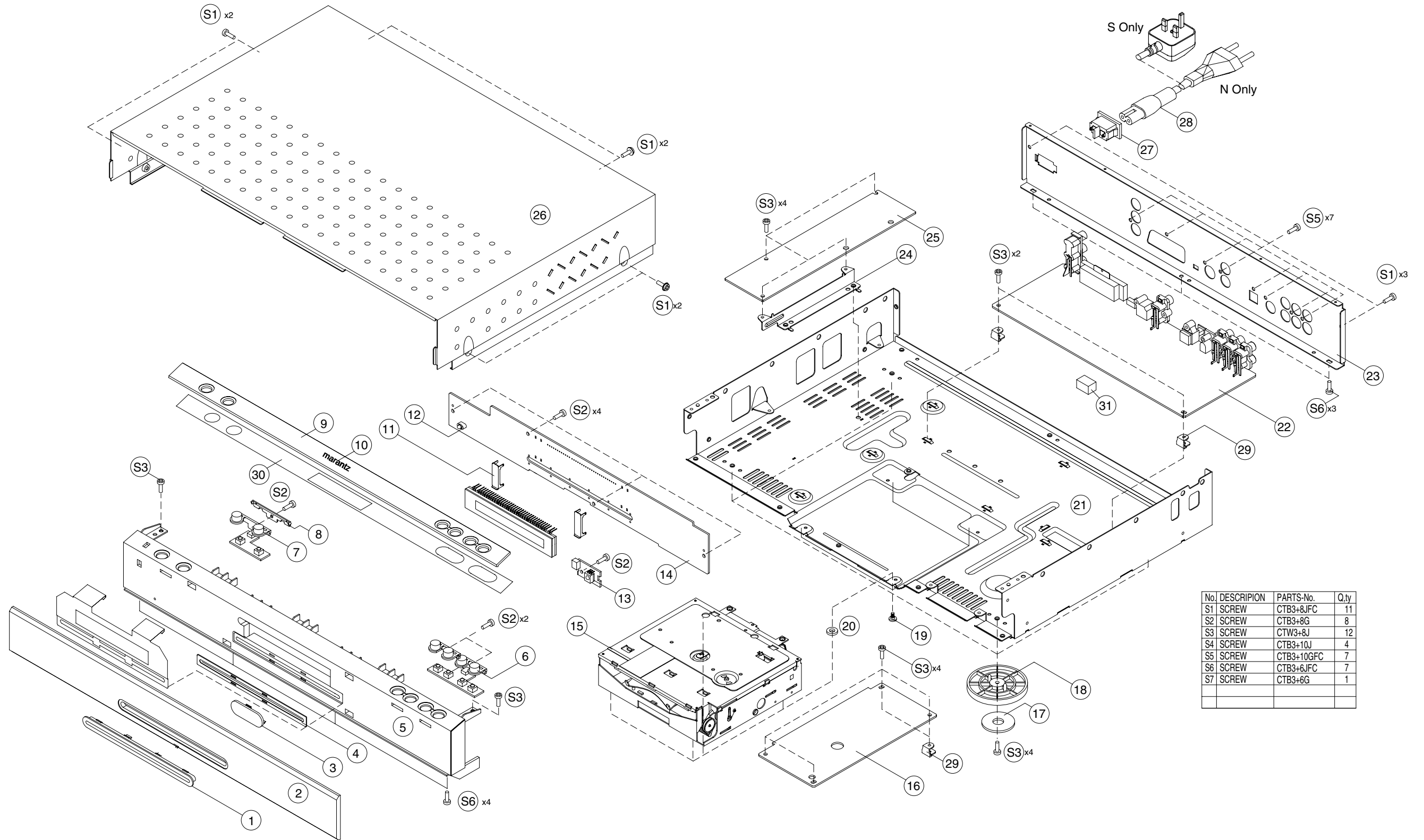
Table 1 ES6028 Pin Description (Continued)

Name	Pin Numbers	I/O	Definition
HD[10]		I/O	Host data bus line 10.
AUX[2:2]	134	I/O	Aux2 data I/O.
SQSK		I	Subcode-Q clock.
HD[11]		I/O	Host data bus line 11.
AUX[2:3]	135	I/O	Aux2 data I/O.
IRQ		O	IRQ.
HD[12]		I/O	Host data bus line 12.
AUX[2:4]	136	I/O	Aux2 data I/O.
C2PO		I	C2PO error correction flag from CD-ROM.
HD[13]		I/O	Host data bus line 13.
AUX[2:5]	137	I/O	Aux2 data I/O.
SP		I	16550 UART serial port input.
HD[14]		I/O	Host data bus line 14.
AUX[2:6]	140	I/O	Aux2 data I/O.
SQSI		I	Subcode-Q sync.
HD[15]		I/O	Host data bus line 15.
AUX[2:7]	141	I/O	Aux2 data I/O.
IR		I	IR remote control input.
HWREQ#		O	Host write request.
DCL_REQ#	142	O	DVD control interface request.
AUX[4:1]		I/O	Aux4 data I/O.
HRRQ#		O	Host read request.
AUX[4:0]	143	I/O	Aux4 data I/O.
HIRQ		I/O	Host interrupt.
DCL_ERR#	144	I/O	DVD channel data error.
AUX[4:7]		I/O	Aux4 data I/O.
HRST#	145	O	Host reset.
AUX[3:5]		I/O	Aux3 data I/O.
HIORDY		I	Host I/O ready.
AUX[3:3]	146	I/O	Aux3 data I/O.
HWRF		I/O	Host write.
DCL_CLK	149	I/O	DVD channel data clock.
AUX[4:5]		I/O	Aux4 data I/O.

Table 1 ES6028 Pin Description (Continued)

Name	Pin Numbers	I/O	Definition
HRD#		O	Host read.
DCL_ACK#	150	O	DVD channel data valid.
AUX[4:6]		I/O	Aux4 data I/O.
HIOSC16#		I	Device 16-bit data transfer.
CAMCLK	151	I	Camera port pixel clock input.
AUX[3:4]		I/O	Aux3 data I/O.
HCS1FX#		O	Host select 1.
AUX[3:7]	152	I/O	Aux3 data I/O.
HCS3FX#		O	Host select 3.
AUX[3:6]	153	I/O	Aux3 data I/O.
HA[2:0]	154, 155, 158	I/O	Host address bus.
AUX[4:4:2]		I/O	Aux4 data I/Os.
AUX[0]	160	I/O	Auxiliary port 0 (open collector).
I2CDATA		I/O	I2C data I/O.
AUX[1]	161	I/O	Auxiliary port 1 (open collector).
I2C_CLK		I/O	I2C clock I/O.
AUX[2]	162	I/O	Auxiliary port.
IOW#		O	I/O Write strobe (LCS1).
AUX[3]	165	I/O	Auxiliary port.
IOR#		O	I/O Read strobe (LCS1).
AUX[6:4]	166:168	I/O	Auxiliary ports.
AUX[7]	169	I/O	Auxiliary port.
STALL#		I	STALL# flag input; when set, extends cycle by adding wait states as required.
LOE#	170	O	RISC port output enable.
LCS[3:0]#	173:176	O	RISC port chip select.
LD[15:0]	178:182, 185:191, 194:197	I/O	RISC port data bus.
LWRLL#	198	O	RISC port low-byte write enable.
LWRHL#	199	O	RISC port high-byte write enable.
CAMIN0	202	I	Camera YUV 0.
CAMIN1	203	I	Camera YUV 1.

13. EXPLODED VIEW AND PARTS LIST



No.	DESCRIPTION	PARTS-No.	Q.ty
S1	SCREW	CTB3+8JFC	11
S2	SCREW	CTB3+8G	8
S3	SCREW	CTW3+8J	12
S4	SCREW	CTB3+10J	4
S5	SCREW	CTB3+10GFC	7
S6	SCREW	CTB3+6JFC	7
S7	SCREW	CTB3+6G	1

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION			
1		34AW259010	34AW259010	BUSHING	SLOT BUSH (ORNAMENT)	CGR1A321C22	
2		34AW158010	34AW158010	WINDOW	WINDOW & ADHESIVE TAPE	KGU1A329ZH46	
3		34AW355010	34AW355010	LENS	IR WINDOW LENS	CGU1A332G13	
4		34AW107010	34AW107010	SHEET	SLOT SHEET	KGX1A342	
5		34AW248010	34AW248010	PANEL	FRONT PANEL SR2400 SILVER	CGW1A372RFZG13	
6		33AW270020	33AW270020	BUTTON	TACT(B) PLAY/STOP	CBT1A916C22	
7		33AW270010	33AW270010	BUTTON	TACT(A) POWER WITH PRINT	CBT1A915C22	
8		nsp	nsp	BRACKET	FOR TACT(A)	CMD1A513	
9		34AW063010	34AW063010	ESCUTCHEON	TOP AL ORNAMENT	CKM2A140YC40	
10		33AW251010	33AW251010	BADGE	MARANTZ STAINLESS BADGE	HGB1A132	
11		nsp	nsp	BRACKET	FIP HOLDER	CMD1A496	
12		nsp	nsp	SUPPORT	FOR STANDBY LED	CHG2A261	
13		nsp	nsp	SUPPORT	FOR IR SENSOR	CHG1A262	
14		nsp	nsp	PCB ASSY	FRONT PCB ASSY DV2400	COP11645B	
15		34AW304500	34AW304500	MECHANISM	DVD LOADER (SLOT IN TYPE) RMC RL-ASL820	HJDRL-ASL820	
16		nsp	nsp	PCB ASSY	DVD MPEG PCB ASS'Y DV-2400	CIP11670BSMD	
17		33AW056010	33AW056010	CUSHION	LEG 2T	KHG2A039Z	
18		33AW057010	33AW057010	LEG	LEG SILVER	CKL1A185H30	
19		nsp	nsp	SCREW		CHD1A048	
20		nsp	nsp	ABSORBER		CHG1A260	
21		nsp	nsp	CHASSIS	BOTTOM	CUA2A239	
22	/N1S	nsp	nsp	PCB ASSY	A/V PCB ASSY DV2400	COP11673B	
22	/S1S	nsp	nsp	PCB ASSY	A/V PCB ASSY DV2400	COP11673C	
23	/N1S	nsp	nsp	PANEL	REAR	CKF1A272ZG14	
23	/S1S	nsp	nsp	PANEL	REAR	CKF2A272YG14	
24		nsp	nsp	BRACKET	FOR SMPS	CMD1A508	
25		*ZZ002460R	*ZZ002460R	PCB ASSY	POWER SMPS EUR 230V, 50HZ	COP11609CSMPS	
▲	27	*YJ002750R	*YJ002750R	INLET	INLET ASSY DV2400	CWEDV2400BN62A	
29		nsp	nsp	SUPPORT	FOR PCB	CMD1A502	
30		33AW122010	33AW122010	TAPE	BOTH SIDE	CHP1A052	
31		nsp	nsp	CUSHION		CHG1A212Z	
		*YU001460R	*YU001460R	FPC	17PIN 280MM PITCH 1.0MM	CWC1B2A17A280B	
		*YU001470R	*YU001470R	FPC	13PIN 100MM PITCH 1.0MM	CWC1B2A13A100B	
		*YU001480R	*YU001480R	FPC	27PIN 100MM PITCH 1.0MM	CWC1B2A27A100B	
		*YU001490R	*YU001490R	FPC	40PIN 200MM PITCH 0.5MM	CWC1G2A40G200A	
		*FC500030R	*FC500030R	FERRITE	RING 29X7.7X19	CLZ9W003Z	
	/N1S	nsp	nsp	PANEL ASSY	FRONT PANEL ASS'Y	CGWDV2400N1S	
	/S1S	nsp	nsp	PANEL ASSY	FRONT PANEL ASS'Y	CGWDV2400S1S	
▲		*YJ002730R	*YJ002730R	OUTLET	RECEPTACLE,(2.5A 250V AC) RF-180-BB	HJJ8A003Z	
					PACKING		
	/N1S	34AW851310	34AW851310	USER GUIDE	USER GUIDE 9LANG.	CQX1A871Z	
	/S1S	nsp	34AW851350	USER GUIDE	USER GUIDE 2LANG.	CQX1A896Z	
		ZK34AW0010	ZK34AW0010	UNIT KIT	REMOTE CONTROLLER RC2400DV	CARTDV2400	
▲	28	/N1S	*ZC000280R	*ZC000280R	MAINS CORD	MAINS CORD FOR N	CJA2B020Z
▲	28	/S1S	nsp	*ZC000300R	MAINS CORD	MAINS CORD FOR S 2.5A / 250V	CJA2E079Z
					NOT STANDARD SPARE PART		
		nsp	34AW801010	PACKING CASE	PACKING CASE DV2400	CPG1A739Y	
		nsp	33AW809010	CUSHION	CUSHION L	CPS1A644	
		nsp	33AW809020	CUSHION	CUSHION R	CPS1A645	
26		nsp	33AW257020	LID	TOP COVER SILVER	CKC2A149G14	

NOTE : *nsp* PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION		
				A/V PCB		CUP11673Z
BN61		nsp	nsp	CONNECTIVE CORD	WIRE ASSY	CWB1C911170GN
C601		nsp	nsp	CER. CAP.	0.1µF 50V Z	HCBS1H104ZFT
C602		nsp	nsp	CER. CAP.	0.1µF 50V Z	HCBS1H104ZFT
C603		nsp	nsp	CER. CAP.	0.1µF 50V Z	HCBS1H104ZFT
C604		nsp	nsp	CER. CAP.	0.1µF 50V Z	HCBS1H104ZFT
C605		nsp	nsp	CER. CAP.	0.1µF 50V Z	HCBS1H104ZFT
C606		nsp	nsp	CER. CAP.	0.1µF 50V Z	HCBS1H104ZFT
C607		nsp	nsp	CER. CAP.	10pF 50V J	HCBS1H100JCT
C608		nsp	nsp	CER. CAP.	0.1µF 50V Z	HCBS1H104ZFT
C609		nsp	nsp	CER. CAP.	18pF 50V JC	HCBS1H180JCT
C610		nsp	nsp	CER. CAP.	15pF 50V JC	HCBS1H150JCT
C611		nsp	nsp	CER. CAP.	33pF 50V J	HCBS1H330JT
C612		nsp	nsp	CER. CAP.	15pF 50V JC	HCBS1H150JCT
C613		nsp	nsp	CER. CAP.	33pF 50V J	HCBS1H330JT
C614	/N1S	nsp	nsp	CER. CAP.	15pF 50V JC	HCBS1H150JCT
C615	/N1S	nsp	nsp	CER. CAP.	33pF 50V J	HCBS1H330JT
C616	/N1S	nsp	nsp	CER. CAP.	18pF 50V JC	HCBS1H180JCT
C617	/N1S	nsp	nsp	CER. CAP.	18pF 50V JC	HCBS1H180JCT
C618	/N1S	nsp	nsp	CER. CAP.	18pF 50V JC	HCBS1H180JCT
C619	/N1S	nsp	nsp	CER. CAP.	18pF 50V JC	HCBS1H180JCT
C620	/N1S	nsp	nsp	CER. CAP.	18pF 50V JC	HCBS1H180JCT
C621	/N1S	nsp	nsp	CER. CAP.	18pF 50V JC	HCBS1H180JCT
C622		nsp	nsp	CER. CAP.	18pF 50V JC	HCBS1H180JCT
C623		nsp	nsp	CER. CAP.	18pF 50V JC	HCBS1H180JCT
C624		nsp	nsp	CER. CAP.	18pF 50V JC	HCBS1H180JCT
C625		nsp	nsp	CER. CAP.	18pF 50V JC	HCBS1H180JCT
C626		nsp	nsp	CER. CAP.	100pF 50V K	HCBS1H101KBT
C627		nsp	nsp	CER. CAP.	100pF 50V K	HCBS1H101KBT
C628		nsp	nsp	CER. CAP.	100pF 50V K	HCBS1H101KBT
C629		nsp	nsp	CER. CAP.	100pF 50V K	HCBS1H101KBT
C630		nsp	nsp	CER. CAP.	100pF 50V K	HCBS1H101KBT
C631		nsp	nsp	CER. CAP.	100pF 50V K	HCBS1H101KBT
C632		nsp	nsp	CER. CAP.	4700pF 16V M	HCBS1C472MXT
C634		nsp	nsp	CER. CAP.	3300pF 16V M	HCBS1C332MXT
C636		nsp	nsp	CER. CAP.	680pF 50V KB	HCBS1H681KBT
C637		nsp	nsp	CER. CAP.	680pF 50V KB	HCBS1H681KBT
C638		nsp	nsp	CER. CAP.	0.1µF 50V Z	HCBS1H104ZFT
C639		nsp	nsp	CER. CAP.	0.1µF 50V Z	HCBS1H104ZFT
C640		nsp	nsp	CER. CAP.	0.1µF 50V Z	HCBS1H104ZFT
C644		nsp	nsp	CER. CAP.	3300pF 16V M	HCBS1C332MXT
C646		nsp	nsp	CER. CAP.	680pF 50V KB	HCBS1H681KBT
C647		nsp	nsp	CER. CAP.	680pF 50V KB	HCBS1H681KBT
C650		nsp	OA22701620	ELECT. CAP.	220µF 16V	HCEA1CH221T
C651		nsp	OA10701620	ELECT. CAP.	100µF 16V	HCEA1CH101T
C652		nsp	OA10701620	ELECT. CAP.	100µF 16V	HCEA1CH101T
C653		nsp	OA10701620	ELECT. CAP.	100µF 16V	HCEA1CH101T
C654		nsp	OA10701620	ELECT. CAP.	100µF 16V	HCEA1CH101T
C655		nsp	OA10701620	ELECT. CAP.	100µF 16V	HCEA1CH101T
C656		nsp	OA22701620	ELECT. CAP.	220µF 16V	HCEA1CH221T
C657		nsp	OA33505020	ELECT. CAP.	3.3µF 50V	HCEA1HH3R3T
C658		nsp	OA47701020	ELECT. CAP.	470µF 10V	HCEA1AH471T
C659		nsp	OA47701020	ELECT. CAP.	470µF 10V	HCEA1AH471T
C660		nsp	OA47701020	ELECT. CAP.	470µF 10V	HCEA1AH471T
C661	/N1S	nsp	OA47701020	ELECT. CAP.	470µF 10V	HCEA1AH471T
C662	/N1S	nsp	OA47701020	ELECT. CAP.	470µF 10V	HCEA1AH471T
C663	/N1S	nsp	OA47701020	ELECT. CAP.	470µF 10V	HCEA1AH471T

NOTE : *nsp* PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION		
C664	/N1S	nsp	OA47701020	ELECT. CAP.	470µF 10V	HCEA1AH471T
C665		nsp	OA47701020	ELECT. CAP.	470µF 10V	HCEA1AH471T
C666		nsp	OA47701020	ELECT. CAP.	470µF 10V	HCEA1AH471T
C667		nsp	OA10701620	ELECT. CAP.	100µF 16V	HCEA1CH101T
C668		nsp	OA10505020	ELECT. CAP.	1µF 50V	HCEA1HH1R0T
C669		nsp	OA10505020	ELECT. CAP.	1µF 50V	HCEA1HH1R0T
C670		nsp	OA10601620	ELECT. CAP.	10µF 16V	HCEA1CH100T
C671		nsp	OA10601620	ELECT. CAP.	10µF 16V	HCEA1CH100T
C672		nsp	OA10601620	ELECT. CAP.	10µF 16V	HCEA1CH100T
C673		nsp	OA10601620	ELECT. CAP.	10µF 16V	HCEA1CH100T
C674		nsp	OA10601620	ELECT. CAP.	10µF 16V	HCEA1CH100T
C675		nsp	OA10601620	ELECT. CAP.	10µF 16V	HCEA1CH100T
C676		nsp	OA47701020	ELECT. CAP.	470µF 10V	HCEA1AH471T
C677		nsp	OA47701020	ELECT. CAP.	470µF 10V	HCEA1AH471T
C685		nsp	nsp	CER. CAP.	0.1µF 50V Z	HCBS1H104ZFT
C686		nsp	OA47701020	ELECT. CAP.	470µF 10V	HCEA1AH471T
C698		nsp	nsp	CER. CAP.	100pF 50V K	HCBS1H101KBT
C699		nsp	nsp	CER. CAP.	0.1µF 50V Z	HCBS1H104ZFT
CN50		nsp	nsp	JACK		KJP27GA117ZG
CN51		nsp	nsp	JACK	GF102-13S-TS	KJP13GA117ZG
CN52		nsp	nsp	JACK	GF102-17S-TS	KJP17GA117ZG
CN99		nsp	nsp	JACK	MOLEX53014-0810	KJP08GA19ZM
D601		nsp	HD20015210	DIODE	1SS133T-77	HVD1SS133MT
D602		nsp	HD20015210	DIODE	1SS133T-77	HVD1SS133MT
D603		nsp	HD20015210	DIODE	1SS133T-77	HVD1SS133MT
D604		nsp	HD20015210	DIODE	1SS133T-77	HVD1SS133MT
D605		nsp	HD20015210	DIODE	1SS133T-77	HVD1SS133MT
D606		nsp	HD20015210	DIODE	1SS133T-77	HVD1SS133MT
D607		*HD301940R	*HD301940R	ZENER DIODE	3.3V 1/2W	HVDMTZJ3.3BT
D608		*HD302140R	*HD302140R	ZENER DIODE	4.3V 1/2W	HVDMTZJ4.3CT
IC51		*HC108350R	*HC108350R	IC	CS4392KS DAC	HVICS4392KS
IC52		HC10102090	HC10102090	IC	NJM2068MD-TE1	HVINJM2068MDTE1
IC53		HC39108090	HC39108090	IC REG.	KA79LXXAZTA -8V	HVIKA79L08AZT
IC54		HC38108090	HC38108090	IC REG.	KA78LXXAZTA +8V	HVIKA78L08AZT
J601		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J602	/N1S	nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J603		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J604		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J605	/N1S	nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J606		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J607		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J608		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J609		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J610		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J611		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J612		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J613		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J614		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J615		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J616		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J617		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J618		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J619		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J620		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J621		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J622		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J623		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION		
J624		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J625		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J626		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J627		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J628		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J629		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J630		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J631		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J632		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J633		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J634		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J635		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J636		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J637		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J638		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J639		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J640		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J641	/N1S	nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J642	/N1S	nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J643	/N1S	nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J644	/N1S	nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J645	/N1S	nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J646	/N1S	nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J647		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J648		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J649		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J650		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J651		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J652		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J653		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J654		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J655		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J656		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J657		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J658		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J659		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J660		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J661		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J662		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J663		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J664		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J665		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J666		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J667		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J668		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J669		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J670		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J671		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J672		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J673		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J674		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J675		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J676		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J677	/N1S	nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J678	/N1S	nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J679		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J680		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206

NOTE : *nsp* PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION		
J681		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J682	/N1S	nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J683		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J684	/N1S	nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J685	/N1S	nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J686	/N1S	nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J687	/N1S	nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J688	/N1S	nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J689		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J690	/N1S	nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J691	/N1S	nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J692		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J693		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J694		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J695		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J696		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J697		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J698		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J699		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J700		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
J701		nsp	nsp	JUMPER	SN95/PB5 , 0.6	C3A206
JK51	/N1S	*YT003640R	*YT003640R	TERMINAL	SCART CONNECTOR	KJP21GA118ZP
JK52		*YT003600R	*YT003600R	TERMINAL	RCA-201DAG-06 VIDEO 2P(Y/Y)	CJJ4N070Z
JK53		*YT003630R	*YT003630R	TERMINAL	S-VIDEO (1P/GOLD)	CJJ9M005Z
JK54		*YJ002670R	*YJ002670R	OPT. CONNECTOR	TOTX179L	HJSTOTX179L
JK55		*YT003620R	*YT003620R	TERMINAL	RCA-305AG-06 IN/OUT (R.G.B)	CJJ4S014Z
JK56		*YT003610R	*YT003610R	TERMINAL	RCA-601DBG-28 BOARD 6P	CJJ4R042Z
JK57		*YT003590R	*YT003590R	TERMINAL	RCA-115AG-01 INPUT (1PIN,GOLD PLATE)	CJJ4M042Z
L601		nsp	nsp	CHOKE COIL	10µH	HLQ02C100KT
L602		nsp	nsp	CHOKE COIL	8.2µH	HLQ02C8R2KT
L603		nsp	nsp	CHOKE COIL	8.2µH	HLQ02C8R2KT
L604	/N1S	nsp	nsp	CHOKE COIL	8.2µH	HLQ02C8R2KT
L605	/N1S	nsp	nsp	CHOKE COIL	10µH	HLQ02C100KT
L606	/N1S	nsp	nsp	CHOKE COIL	10µH	HLQ02C100KT
L607	/N1S	nsp	nsp	CHOKE COIL	10µH	HLQ02C100KT
L608		nsp	nsp	CHOKE COIL	10µH	HLQ02C100KT
L609		nsp	nsp	CHOKE COIL	10µH	HLQ02C100KT
L613		nsp	nsp	CHOKE COIL	10µH	HLQ02C100KT
L614		*LC107360R	*LC107360R	CHOKE COIL	100µH 6700-101K	CLZ9Z016Z
L615		nsp	nsp	CHOKE COIL	10µH	HLQ02C100KT
Q601		*HT100460R	*HT100460R	TRS.	KSA916YT	HVTKSA916YT
Q602	/N1S	*BA001460R	*BA001460R	TRS.	KRC107M	HVTKRC107MT
Q603	/N1S	*BA001460R	*BA001460R	TRS.	KRC107M	HVTKRC107MT
Q604	/N1S	*HT100420R	*HT100420R	TRS.	KSA733CY	HVTKSA733CYT
Q605		*HT100420R	*HT100420R	TRS.	KSA733CY	HVTKSA733CYT
Q606		*HT100420R	*HT100420R	TRS.	KSA733CY	HVTKSA733CYT
Q607	/N1S	*HT100420R	*HT100420R	TRS.	KSA733CY	HVTKSA733CYT
Q608		*BA001450R	*BA001450R	TRS.	KRA107M	HVTKRA107MT
Q609		*BA001460R	*BA001460R	TRS.	KRC107M	HVTKRC107MT
Q610		*BA001450R	*BA001450R	TRS.	KRA107M	HVTKRA107MT
Q611		*BA001460R	*BA001460R	TRS.	KRC107M	HVTKRC107MT
Q612		*BA001450R	*BA001450R	TRS.	KRA107M	HVTKRA107MT
Q613		*BA001450R	*BA001450R	TRS.	KRA107M	HVTKRA107MT
Q614		*HT400450R	*HT400450R	TRS.	KTD1302	HVTKTD1302T
Q615		*HT400450R	*HT400450R	TRS.	KTD1302	HVTKTD1302T
Q616	/N1S	*HT100420R	*HT100420R	TRS.	KSA733CY	HVTKSA733CYT

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION		
Q617	/N1S	*HT100420R	*HT100420R	TRS.	KSA733CY	HVTKSA733CYT
Q618	/N1S	*HT100420R	*HT100420R	TRS.	KSA733CY	HVTKSA733CYT
Q619		*HT100420R	*HT100420R	TRS.	KSA733CY	HVTKSA733CYT
Q620		*HT100420R	*HT100420R	TRS.	KSA733CY	HVTKSA733CYT
R601		nsp	nsp	RES.	82kΩ 1/6W J	CRD20TJ820T
R602		nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ101T
R603		nsp	nsp	RES.	470kΩ 1/6W J	CRD20TJ474T
R604		nsp	nsp	RES.	220kΩ 1/6W J	CRD20TJ221T
R605		nsp	nsp	RES.	22kΩ 1/6W J	CRD20TJ223T
R606	/N1S	nsp	nsp	RES.	820kΩ 1/6W J	CRD20TJ821T
R607	/N1S	nsp	nsp	RES.	1kΩ 1/6W J	CRD20TJ102T
R608	/N1S	nsp	nsp	RES.	75kΩ 1/6W J	CRD20TJ750T
R609	/N1S	nsp	nsp	RES.	180kΩ 1/6W J	CRD20TJ181T
R610	/N1S	nsp	nsp	RES.	75kΩ 1/6W J	CRD20TJ750T
R612	/N1S	nsp	nsp	RES.	75kΩ 1/6W J	CRD20TJ750T
R613	/N1S	nsp	nsp	RES.	75kΩ 1/6W J	CRD20TJ750T
R614	/N1S	nsp	nsp	RES.	75kΩ 1/6W J	CRD20TJ750T
R615		nsp	nsp	RES.	150kΩ 1/6W J	CRD20TJ151T
R616		nsp	nsp	RES.	120kΩ 1/6W J	CRD20TJ121T
R617		nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ101T
R618		nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ101T
R619	/N1S	nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ101T
R620		nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ101T
R621		nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ101T
R622	/N1S	nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ101T
R623		nsp	nsp	RES.	75kΩ 1/6W J	CRD20TJ750T
R624		nsp	nsp	RES.	75kΩ 1/6W J	CRD20TJ750T
R625	/N1S	nsp	nsp	RES.	75kΩ 1/6W J	CRD20TJ750T
R627		nsp	nsp	RES.	68kΩ 1/6W J	CRD20TJ680T
R628		nsp	nsp	RES.	220kΩ 1/6W J	CRD20TJ221T
R629		nsp	nsp	RES.	220kΩ 1/6W J	CRD20TJ221T
R630		nsp	nsp	RES.	220kΩ 1/6W J	CRD20TJ221T
R631		nsp	nsp	RES.	220kΩ 1/6W J	CRD20TJ221T
R632		nsp	nsp	RES.	47kΩ 1/6W J	CRD20TJ470T
R633		nsp	nsp	RES.	2.4kΩ 1/6W J	CRD20TJ242T
R634		nsp	nsp	RES.	2.4kΩ 1/6W J	CRD20TJ242T
R635		nsp	nsp	RES.	3kΩ 1/6W J	CRD20TJ302T
R636		nsp	nsp	RES.	1.1kΩ 1/6W J	CRD20TJ112T
R637		nsp	nsp	RES.	1.1kΩ 1/6W J	CRD20TJ112T
R638		nsp	nsp	RES.	3kΩ 1/6W J	CRD20TJ302T
R639		nsp	nsp	RES.	560kΩ 1/6W J	CRD20TJ561T
R640		nsp	nsp	RES.	47kΩ 1/6W J	CRD20TJ473T
R641		nsp	nsp	RES.	2.2kΩ 1/6W J	CRD20TJ222T
R642		nsp	nsp	RES.	2.2kΩ 1/6W J	CRD20TJ222T
R643		nsp	nsp	RES.	2.4kΩ 1/6W J	CRD20TJ242T
R644		nsp	nsp	RES.	2.4kΩ 1/6W J	CRD20TJ242T
R645		nsp	nsp	RES.	3kΩ 1/6W J	CRD20TJ302T
R646		nsp	nsp	RES.	1.1kΩ 1/6W J	CRD20TJ112T
R647		nsp	nsp	RES.	1.1kΩ 1/6W J	CRD20TJ112T
R648		nsp	nsp	RES.	3kΩ 1/6W J	CRD20TJ302T
R649		nsp	nsp	RES.	560kΩ 1/6W J	CRD20TJ561T
R650		nsp	nsp	RES.	47kΩ 1/6W J	CRD20TJ473T
R651		nsp	nsp	RES.	10kΩ 1/6W J	CRD20TJ103T
R652		nsp	nsp	RES.	10kΩ 1/6W J	CRD20TJ103T
R653		nsp	nsp	RES.	470kΩ 1/6W J	CRD20TJ474T
R654		nsp	nsp	RES.	470kΩ 1/6W J	CRD20TJ474T
R655		nsp	nsp	RES.	10kΩ 1/6W J	CRD20TJ103T

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJ)	DESCRIPTION		
R656		nsp	nsp	RES.	10kΩ 1/6W J	CRD20TJ103T
R657		nsp	nsp	RES.	82kΩ 1/6W J	CRD20TJ820T
R658		nsp	nsp	RES.	82kΩ 1/6W J	CRD20TJ820T
R659	/N1S	nsp	nsp	RES.	220kΩ 1/6W J	CRD20TJ221T
R660		nsp	nsp	RES.	220kΩ 1/6W J	CRD20TJ221T
R661		nsp	nsp	RES.	220kΩ 1/6W J	CRD20TJ221T
R662		nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ104T
R663		nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ104T
R664	/N1S	nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ104T
R665	/N1S	nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ101T
R666	/N1S	nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ101T
R667	/N1S	nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ101T
R668		nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ101T
R669		nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ101T
R670	/N1S	nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ101T
R671	/N1S	nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ101T
R672	/N1S	nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ101T
R673		nsp	nsp	RES.	56kΩ 1/6W J	CRD20TJ560T
R674		nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ101T
R675		nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ104T
R676		nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ104T
R677	/N1S	nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ104T
R678	/N1S	nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ104T
R679	/N1S	nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ104T
R680	/N1S	nsp	nsp	RES.	470kΩ 1/6W J	CRD20TJ471T
R681	/N1S	nsp	nsp	RES.	470kΩ 1/6W J	CRD20TJ471T
R682	/N1S	nsp	nsp	RES.	470kΩ 1/6W J	CRD20TJ471T
R683		nsp	nsp	RES.	470kΩ 1/6W J	CRD20TJ471T
R684		nsp	nsp	RES.	470kΩ 1/6W J	CRD20TJ471T
R685	/N1S	nsp	nsp	RES.	75kΩ 1/6W J	CRD20TJ750T
R686		nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ101T
R687		nsp	nsp	RES.	82kΩ 1/6W J	CRD20TJ820T
SW51		*SS000750R	*SS000750R	SWITCH	SLIDE SWITCH JSS2315A	KSS3B007Z
					FRONT PCB	CUP11645Z
BN92		nsp	nsp	CONNECTIVE CORD	WIRE ASSY	CWB1A903080EN
BN93		nsp	nsp	CONNECTIVE CORD	WIRE ASSY	CWB1A903080EN
BN94		nsp	nsp	CONNECTIVE CORD	WIRE ASSY	CWB1A903120EN
C901		nsp	nsp	CER. CAP.	0.1μF 50V Z	HCBS1H104ZFT
C902		nsp	nsp	CER. CAP.	0.1μF 50V Z	HCBS1H104ZFT
C903		nsp	EJ10505010	ELECT. CAP.	1μF 50V	HCEA1HKS1R0T
C904		nsp	EJ10601610	ELECT. CAP.	10μF 16V	HCEA1CK5100T
C905		nsp	nsp	CER. CAP.	15pF 50V JC	HCBS1H150JCT
C906		nsp	nsp	CER. CAP.	15pF 50V JC	HCBS1H150JCT
C907		nsp	EJ47601610	ELECT. CAP.	47μF 16V	HCEA1CK5470T
C908		nsp	nsp	CER. CAP.	0.1μF 50V Z	HCBS1H104ZFT
C909		nsp	nsp	CER. CAP.	1000pF 50V B	HCBS1H102KBT
C910		nsp	EJ47601610	ELECT. CAP.	47μF 16V	HCEA1CK5470T
C911		nsp	nsp	CER. CAP.	0.1μF 50V Z	HCBS1H104ZFT
C912		nsp	nsp	CER. CAP.	0.1μF 50V Z	HCBS1H104ZFT
C913		nsp	nsp	CER. CAP.	100pF 50V K	HCBS1H101KBT
C914		nsp	nsp	CER. CAP.	47pF 50V J	HCBS1H470JT
C915		nsp	nsp	CER. CAP.	0.1μF 50V Z	HCBS1H104ZFT
C916		nsp	nsp	CER. CAP.	47pF 50V J	HCBS1H470JT
C917		nsp	nsp	CER. CAP.	0.1μF 50V Z	HCBS1H104ZFT
C918		nsp	nsp	CER. CAP.	0.1μF 50V Z	HCBS1H104ZFT
C919		nsp	nsp	CER. CAP.	100pF 50V K	HCBS1H101KBT

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION		
C920		nsp	nsp	CER. CAP.	100pF 50V K	HCBS1H101KBT
C921		nsp	nsp	CER. CAP.	0.1µF 50V Z	HCBS1H104ZFT
C922		nsp	EJ47503510	ELECT. CAP.	4.7µF 35V (8X5 MM)	CCEA1VKS470T
C923		nsp	EJ47503510	ELECT. CAP.	4.7µF 35V (8X5 MM)	CCEA1VKS470T
C924		nsp	EJ47601610	ELECT. CAP.	47µF 16V	HCEA1CKS470T
C925		nsp	nsp	CER. CAP.	0.1µF 50V Z	HCBS1H104ZFT
C926		nsp	EJ10601610	ELECT. CAP.	10µF 16V	HCEA1CKS100T
CN91		nsp	nsp	JACK	GF102-17S-TS	KJP17GA117ZG
CN92		nsp	nsp	JACK	MOLEX53015-0310	KJP03GB46ZM
CN93		nsp	nsp	JACK	MOLEX53015-0310	KJP03GB46ZM
CN94		nsp	nsp	JACK	MOLEX53015-0310	KJP03GB46ZM
D901		*HI101090R	*HI101090R	L.E.D	SPR-39MVW3 2COLOR	HVDSPR39MVW3
D902		nsp	HD20015210	DIODE	1SS133T-77	HVD1SS133MT
D903		nsp	HD20015210	DIODE	1SS133T-77	HVD1SS133MT
D904		nsp	HD20015210	DIODE	1SS133T-77	HVD1SS133MT
FIP1		*HQ300650R	*HQ300650R	DISPLAY	F.I.P DV2400	HFLHCA14SM09
IC91		*HC108760R	*HC108760R	IC	GMS87C2020Q OTP (64MQFP)	HVIGMS87C2020
IC92		HW10004210	HW10004210	IR SENSOR	RPM6936-V4	BRVRPM6936V4
IC93		*HC108430R	*HC108430R	IC	TC74HC7007AFEL	HVITC74HCT7007F
J901		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J902		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J903		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J904		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J905		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J906		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J907		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J908		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J909		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J910		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J911		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J912		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J913		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J914		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J915		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J916		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J917		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J918		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J920		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J921		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J922		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J923		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J924		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J925		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J926		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J927		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J928		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J929		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J930		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J931		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J932		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J933		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J934		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J935		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J936		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J937		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J938		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206
J939		nsp	nsp	JUMPER	SN95/PB5 , 0,6	C3A206

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJ)	DESCRIPTION		
L901		nsp	nsp	CHOKE COIL	10µH	HLQ02C100KT
L903		nsp	nsp	CHOKE COIL	10µH	HLQ02C100KT
Q901		*BA001450R	*BA001450R	TRS.	KRA107M	HVTKRA107MT
Q902		*BA001460R	*BA001460R	TRS.	KRC107M	HVTKRC107MT
Q903		*HT800100R	*HT800100R	TRS.	KSC945CY	HVTKSC945CYT
Q904		BA10001000	BA10001000	TRS.	KRA102M	HVTKRA102MT
Q905		BA10001000	BA10001000	TRS.	KRA102M	HVTKRA102MT
Q906		BA10001000	BA10001000	TRS.	KRA102M	HVTKRA102MT
Q907		BA20001000	BA20001000	TRS.	KRC102M	HVTKRC102MT
Q908		HT30001000	HT30001000	TRS.	KTC3199Y	HVTKTC3199YT
Q909		*BA001450R	*BA001450R	TRS.	KRA107M	HVTKRA107MT
Q910		*BA001460R	*BA001460R	TRS.	KRC107M	HVTKRC107MT
Q911		*BA001460R	*BA001460R	TRS.	KRC107M	HVTKRC107MT
Q912		BA20001000	BA20001000	TRS.	KRC102M	HVTKRC102MT
Q913		BA20001000	BA20001000	TRS.	KRC102M	HVTKRC102MT
Q914		BA10001000	BA10001000	TRS.	KRA102M	HVTKRA102MT
Q915		BA20001000	BA20001000	TRS.	KRC102M	HVTKRC102MT
R901		nsp	nsp	RES.	10kΩ 1/6W J	CRD20TJ103T
R902		nsp	nsp	RES.	10kΩ 1/6W J	CRD20TJ103T
R903		nsp	nsp	RES.	47kΩ 1/6W J	CRD20TJ473T
R904		nsp	nsp	RES.	18kΩ 1/6W J	CRD20TJ183T
R905		nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ101T
R906		nsp	nsp	RES.	18kΩ 1/6W J	CRD20TJ183T
R907		nsp	nsp	RES.	82kΩ 1/6W J	CRD20TJ820T
R908		nsp	nsp	RES.	1MkΩ 1/6W J	CRD20TJ105T
R909		nsp	nsp	RES.	4.7kΩ 1/6W J	CRD20TJ472T
R910		nsp	nsp	RES.	10kΩ 1/6W J	CRD20TJ103T
R911		nsp	nsp	RES.	680kΩ 1/6W J	CRD20TJ681T
R912		nsp	nsp	RES.	820kΩ 1/6W J	CRD20TJ821T
R913		nsp	nsp	RES.	1.2kΩ 1/6W J	CRD20TJ122T
R914		nsp	nsp	RES.	1.5kΩ 1/6W J	CRD20TJ152T
R915		nsp	nsp	RES.	2.2kΩ 1/6W J	CRD20TJ222T
R916		nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ101T
R917		nsp	nsp	RES.	3.3kΩ 1/6W J	CRD20TJ332T
R918		nsp	nsp	RES.	4.7kΩ 1/6W J	CRD20TJ472T
R919		nsp	nsp	RES.	10kΩ 1/6W J	CRD20TJ103T
R920		nsp	nsp	RES.	1kΩ 1/6W J	CRD20TJ102T
R921		nsp	nsp	RES.	82kΩ 1/6W J	CRD20TJ820T
R922		nsp	nsp	RES.	10kΩ 1/6W J	CRD20TJ103T
R923		nsp	nsp	RES.	10kΩ 1/6W J	CRD20TJ103T
R924		nsp	nsp	RES.	10kΩ 1/6W J	CRD20TJ103T
R925		nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ101T
R926		nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ101T
R927		nsp	nsp	RES.	100kΩ 1/6W J	CRD20TJ101T
R928		nsp	nsp	RES.	10kΩ 1/6W J	CRD20TJ103T
R929		nsp	nsp	RES.	10kΩ 1/6W J	CRD20TJ103T
R930		nsp	nsp	RES.	10kΩ 1/6W J	CRD20TJ103T
R931		nsp	nsp	RES.	10kΩ 1/6W J	CRD20TJ103T
R932		nsp	nsp	RES.	10kΩ 1/6W J	CRD20TJ103T
R933		nsp	nsp	RES.	10kΩ 1/6W J	CRD20TJ103T
S901		*SP001210R	*SP001210R	SWITCH	SKHV10910G TACT	CST1A012ZT
S902		*SP001210R	*SP001210R	SWITCH	SKHV10910G TACT	CST1A012ZT
S903		*SP001210R	*SP001210R	SWITCH	SKHV10910G TACT	CST1A012ZT
S904		*SP001210R	*SP001210R	SWITCH	SKHV10910G TACT	CST1A012ZT
S905		*SP001210R	*SP001210R	SWITCH	SKHV10910G TACT	CST1A012ZT
S906		*SP001210R	*SP001210R	SWITCH	SKHV10910G TACT	CST1A012ZT
W001		nsp	nsp	CONNECTIVE CORD	WIRE ASSY	CWE7202070RV

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION		
W002		nsp	nsp	CONNECTIVE CORD	WIRE ASSY	CWE7202070RV
X901		*JX001130R	*JX001130R	CRYSTAL	4MHz	HOX04000E150C
					BACK-END (DVD MPEG) PCB	CUP11670Z
BD01		FC90020050	FC90020050	FERRITE CORE	BLM21A121SPT	HLZ9J003Z
BD02		FC90020050	FC90020050	FERRITE CORE	BLM21A121SPT	HLZ9J003Z
BD03		FC90020050	FC90020050	FERRITE CORE	BLM21A121SPT	HLZ9J003Z
BD04		FC90020050	FC90020050	FERRITE CORE	BLM21A121SPT	HLZ9J003Z
BD07		FC90020050	FC90020050	FERRITE CORE	BLM21A121SPT	HLZ9J003Z
C101		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C102		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C103		EY47600620	EY47600620	CHIP ELECT. CAP.	47µF/6.3V	HCEC0JRV2470T
C104		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C105		*EY000390R	*EY000390R	ELECT. CAP.	220µF/6.3V	HCEC0JRV2221T
C111		EY47600620	EY47600620	CHIP ELECT. CAP.	47µF/6.3V	HCEC0JRV2470T
C112		nsp	DK96104300	CHIP CER. CAP. CAP.	0.1µF ZF	HCUS1E104ZF
C114		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C123		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C124		EY10700620	EY10700620	CHIP ELECT. CAP.	100µF/6.3V	HCEC0JRV2101T
C129		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C143		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C150		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C151		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C155		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C156		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C158		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C159		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C160		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C161		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C163		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C164		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C165		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C169		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C173		*EY000390R	*EY000390R	ELECT. CAP.	220µF/6.3V	HCEC0JRV2221T
C179		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C261		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C285		EY10700620	EY10700620	CHIP ELECT. CAP.	100µF/6.3V	HCEC0JRV2101T
C287		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C288		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C296		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C297		nsp	DD95270300	CHIP CER. CAP.	27pF JA	HCUS1H270JA
C298		nsp	DD95270300	CHIP CER. CAP.	27pF JA	HCUS1H270JA
C325		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C524		nsp	DD95560300	CHIP CER. CAP.	56pF JA	HCUS1H560JA
C527		EY10700620	EY10700620	CHIP ELECT. CAP.	100µF/6.3V	HCEC0JRV2101T
C528		EY22600620	EY22600620	CHIP ELECT. CAP.	22µF/6.3V	HCEC0JRV2220T
C531		nsp	DD95560300	CHIP CER. CAP.	56pF JA	HCUS1H560JA
C533		EY10505020	EY10505020	CHIP ELECT. CAP.	1µF/50V	HCEC1HRV21R0T
C534		EY10505020	EY10505020	CHIP ELECT. CAP.	1µF/50V	HCEC1HRV21R0T
C535		nsp	DD95220300	CHIP CER. CAP.	22pF JA	HCUS1H220JA
C536		EY47600620	EY47600620	CHIP ELECT. CAP.	47µF/6.3V	HCEC0JRV2470T
C537		EY47600620	EY47600620	CHIP ELECT. CAP.	47µF/6.3V	HCEC0JRV2470T
C538		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C601		*EY000400R	*EY000400R	TANTALUM CAP CHIP		HCSGA0J220B
C602		*EY000400R	*EY000400R	TANTALUM CAP CHIP		HCSGA0J220B
C603		EY10700620	EY10700620	CHIP ELECT. CAP.	100µF/6.3V	HCEC0JRV2101T
C604		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJ)	DESCRIPTION		
C605		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
C606		*EY000390R	*EY000390R	ELECT. CAP.	220µF/6.3V	HCEC0JRV2221T
C607		nsp	DK96104300	CHIP CER. CAP.	0.1µF ZF	HCUS1E104ZF
CN10		nsp	nsp	JACK		KJP27GA117ZG
CN12		nsp	nsp	JACK	GF102-13S-TS	KJP13GA117ZG
CN13		*YJ002740R	*YJ002740R	JACK	ANGLE 0.5M/M LG GF053-40S	KJP40GF162ZG
D101		nsp	*HD201820R	DIODE	RB160L-60TE25	HVDRB160L60TE25
IC01		*HC108750R	*HC108750R	IC	DVD MPEG	HVIES6028FW
IC02		*HC108770R	*HC108770R	IC	HYNIX 64MSDRAM	HVIHY57V641620D
IC03		*HC108780R	*HC108780R	IC	8M FLASH MEMORY	HVIMX29F80ABT9
IC04		*HC108790R	*HC108790R	IC	BH7862FS 6CH VIDEO DRIVER	BVIBH7862FS
IC05		*HC108740R	*HC108740R	IC	I2C BUS ROHM	HVIBU2098F
IC06		HC700400Z0	HC700400Z0	IC	TC74HCU04AFN INVERTER	HVITC74HCU04AFN
IC07		HC1021521Z	HC1021521Z	IC	EEPROM(16K) 2K*8 SOP8	HVIBR24C16F
IC08		*HC900030R	*HC900030R	IC REG.	RC1117ST ADJ REGULATOR	HVIRC1117ST
L101		*LU000180R	*LU000180R	CHIP INDUCTANCE	2012-R68UH	HLQ08ER68KRZ
L102		*LU000170R	*LU000170R	CHIP INDUCTANCE	2012-R39UH	HLQ08ER39KRZ
L103		*LU000180R	*LU000180R	CHIP INDUCTANCE	2012-R68UH	HLQ08ER68KRZ
L201		*LU000160R	*LU000160R	CHIP INDUCTANCE	2012 3.9UH	HLQ08E3R9KRZ
Q101		*HX600010R	*HX600010R	CHIP TRS.	KRA102S	HVTKRA102S
Q102		*HX600010R	*HX600010R	CHIP TRS.	KRA102S	HVTKRA102S
Q103		*HX600020R	*HX600020R	CHIP TRS.	KTA1504S Y RTK	HVTKTA1504S
Q104		*HX900010R	*HX900010R	CHIP TRS.	KTD1304	HVTKTD1304T
Q105		*HX600020R	*HX600020R	CHIP TRS.	KTA1504S Y RTK	HVTKTA1504S
Q106		*HX900010R	*HX900010R	CHIP TRS.	KTD1304	HVTKTD1304T
Q107		*HX600020R	*HX600020R	CHIP TRS.	KTA1504S Y RTK	HVTKTA1504S
Q108		*HX900010R	*HX900010R	CHIP TRS.	KTD1304	HVTKTD1304T
Q109		*HX600020R	*HX600020R	CHIP TRS.	KTA1504S Y RTK	HVTKTA1504S
Q110		*HX900010R	*HX900010R	CHIP TRS.	KTD1304	HVTKTD1304T
Q111		*HX600020R	*HX600020R	CHIP TRS.	KTA1504S Y RTK	HVTKTA1504S
Q112		*HX900010R	*HX900010R	CHIP TRS.	KTD1304	HVTKTD1304T
R101		nsp	*NN000570R	CHIP RES.	360kΩ J 1608 SIZE	HRJ10DJ361T
R107		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R115		nsp	NN05221610	CHIP RES.	220kΩ J 1608 SIZE	HRJ10DJ221T
R116		nsp	NN05102610	CHIP RES.	1kΩ J 1608 SIZE	HRJ10DJ102T
R120		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R152		nsp	NN05000610	CHIP RES.	0kΩ J 1608 SIZE	HRJ10DJ0R0T
R153		nsp	NN05330610	CHIP RES.	33kΩ J 1608 SIZE	HRJ10DJ330T
R154		nsp	NN05473610	CHIP RES.	47kΩ J 1608SIZE	HRJ10DJ473T
R155		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R156		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R157		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R158		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R159		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R160		nsp	NN05473610	CHIP RES.	47kΩ J 1608SIZE	HRJ10DJ473T
R161		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R162		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R170		nsp	NN05330610	CHIP RES.	33kΩ J 1608 SIZE	HRJ10DJ330T
R171		nsp	NN05103610	CHIP RES.	10kΩ J 1608 SIZE	HRJ10DJ103T
R172		nsp	NN05103610	CHIP RES.	10kΩ J 1608 SIZE	HRJ10DJ103T
R173		nsp	NN05103610	CHIP RES.	10kΩ J 1608 SIZE	HRJ10DJ103T
R174		nsp	NN05103610	CHIP RES.	10kΩ J 1608 SIZE	HRJ10DJ103T
R175		nsp	NN05103610	CHIP RES.	10kΩ J 1608 SIZE	HRJ10DJ103T
R176		nsp	NN05103610	CHIP RES.	10kΩ J 1608 SIZE	HRJ10DJ103T
R177		nsp	NN05103610	CHIP RES.	10kΩ J 1608 SIZE	HRJ10DJ103T
R178		nsp	NN05121610	CHIP RES.	120kΩ J 1608 SIZE	HRJ10DJ121T
R179		nsp	NN05103610	CHIP RES.	10kΩ J 1608 SIZE	HRJ10DJ103T

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION		
R193		nsp	NN05330610	CHIP RES.	33kΩ J 1608 SIZE	HRJ10DJ330T
R194		nsp	NN05330610	CHIP RES.	33kΩ J 1608 SIZE	HRJ10DJ330T
R197		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R198		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R200		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R201		nsp	NN05330610	CHIP RES.	33kΩ J 1608 SIZE	HRJ10DJ330T
R203		nsp	NN05100610	CHIP RES.	10kΩ J 1608 SIZE	HRJ10DJ100T
R207		nsp	NN05000610	CHIP RES.	0kΩ J 1608 SIZE	HRJ10DJ0R0T
R208		nsp	NN05000610	CHIP RES.	0kΩ J 1608 SIZE	HRJ10DJ0R0T
R222		nsp	NN05101610	CHIP RES.	100kΩ J 1608 SIZE	HRJ10DJ101T
R223		nsp	NN05101610	CHIP RES.	100kΩ J 1608 SIZE	HRJ10DJ101T
R225		nsp	NN05101610	CHIP RES.	100kΩ J 1608 SIZE	HRJ10DJ101T
R226		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R227		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R228		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R230		nsp	NN05100610	CHIP RES.	10kΩ J 1608 SIZE	HRJ10DJ100T
R231		nsp	NN05100610	CHIP RES.	10kΩ J 1608 SIZE	HRJ10DJ100T
R232		nsp	NN05100610	CHIP RES.	10kΩ J 1608 SIZE	HRJ10DJ100T
R233		nsp	NN05100610	CHIP RES.	10kΩ J 1608 SIZE	HRJ10DJ100T
R234		nsp	NN05100610	CHIP RES.	10kΩ J 1608 SIZE	HRJ10DJ100T
R235		nsp	NN05100610	CHIP RES.	10kΩ J 1608 SIZE	HRJ10DJ100T
R249		nsp	NN05102610	CHIP RES.	1kΩ J 1608 SIZE	HRJ10DJ102T
R251		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R252		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R256		nsp	NN05390610	CHIP RES.	39kΩ J 1608 SIZE	HRJ10DJ390T
R259		nsp	NN05390610	CHIP RES.	39kΩ J 1608 SIZE	HRJ10DJ390T
R260		nsp	NN05000610	CHIP RES.	0kΩ J 1608 SIZE	HRJ10DJ0R0T
R264		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R280		nsp	NN05271610	CHIP RES.	270kΩ J 1608 SIZE	HRJ10DJ271T
R301		nsp	NN05330610	CHIP RES.	33kΩ J 1608 SIZE	HRJ10DJ330T
R306		nsp	NN05330610	CHIP RES.	33kΩ J 1608 SIZE	HRJ10DJ330T
R307		nsp	NN05104610	CHIP RES.	100kΩ J 1608 SIZE	HRJ10DJ104T
R309		nsp	NN05330610	CHIP RES.	33kΩ J 1608 SIZE	HRJ10DJ330T
R311		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R312		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R313		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R314		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R315		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R316		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R317		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R318		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R319		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R320		nsp	NN05472610	CHIP RES.	4.7kΩ J 1608 SIZE	HRJ10DJ472T
R339		nsp	NN05121610	CHIP RES.	120kΩ J 1608 SIZE	HRJ10DJ121T
R342		nsp	NN05000610	CHIP RES.	0kΩ J 1608 SIZE	HRJ10DJ0R0T
R344		nsp	NN05390610	CHIP RES.	39kΩ J 1608 SIZE	HRJ10DJ390T
R346		nsp	NN05390610	CHIP RES.	39kΩ J 1608 SIZE	HRJ10DJ390T
R380		nsp	NN05330610	CHIP RES.	33kΩ J 1608 SIZE	HRJ10DJ330T
R381		nsp	NN05330610	CHIP RES.	33kΩ J 1608 SIZE	HRJ10DJ330T
R501		nsp	NN05102610	CHIP RES.	1kΩ J 1608 SIZE	HRJ10DJ102T
R502		nsp	NI05221110	CHIP RES.	220kΩ/2012	HRJ18AJ221T
R503		nsp	NN05101610	CHIP RES.	100kΩ J 1608 SIZE	HRJ10DJ101T
R504		nsp	NN05222610	CHIP RES.	2.2kΩ J 1608 SIZE	HRJ10DJ222T
R505		NI05221110	NI05221110	CHIP RES.	220kΩ/2012	HRJ18AJ221T
R506		nsp	NN05101610	CHIP RES.	100kΩ J 1608 SIZE	HRJ10DJ101T
R507		nsp	NN05222610	CHIP RES.	2.2kΩ J 1608 SIZE	HRJ10DJ222T
R508		NI05221110	NI05221110	CHIP RES.	220kΩ/2012	HRJ18AJ221T

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