

Service Manual

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ORDER NO.ODSD020948C8

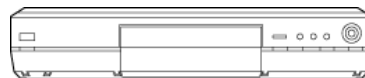
Service Manual

DVD Video Recorder

- DMR-HS2EB
DMR-HS2EB1
DMR-HS2EG
DMR-HS2EG1
DMR-HS2GN

Colour

(S).....Silver Type



Specifications

Power supply:	AC220-240 V, 50 Hz
Power consumption:	39 W
Recording system:	DVD video recording standards (DVD-RAM), DVD video standards (DVD-R)
Hard disk drive capacity:	40 GB
Recordable discs:	12 cm 4.7 GB DVD-RAM 12 cm 9.4 GB DVD-RAM 8 cm 2.8 GB DVD-RAM 12 cm 4.7 GB DVD-R (for General Ver. 2.0)
Recording time:	Max. 6 hours (using 4.7 GB disc) XP: Approx. 1 hour SP: Approx. 2 hours LP: Approx. 4 hours EP: Approx. 6 hours Max. 52 hours (using Hard disc drive) XP: Approx. 8.5 hours SP: Approx. 17 hours LP: Approx. 34 hours EP: Approx. 52 hours
Region Number:	Region No.2 (HS2EB/ EB1/ EG/ EG1) Region No.4 (HS2GN)
Playable discs:	12 cm 4.7 GB DVD-RAM 12 cm 9.4 GB DVD-RAM 8 cm 2.8 GB DVD-RAM 12 cm 4.7 GB DVD-R (for General Ver. 2.0) DVD-Video CD-Audio (CD-DA) Video CD CD-R/RW (CD-DA, Video CD formatted discs)
Audio	
Recording system:	Dolby Digital, 2ch LINEAR PCM (for XP mode only, selectable)
Audio In:	AV1/AV2 (21 pin) AV3/AV4 (pin jack)
Input Level:	Standard: 0.5 Vms Full scale: 2 Vms at 1k Hz

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Input Impedance: more than 10k ohm

Audio Out: AV1/AV2 (21 pin) Audio Out (pin jack)

Output Level: Standard: 0.5 Vms
Full scale: 2Vms at 1k Hz

Output Impedance: less than 1k ohm

Digital Audio Out: Optical terminal (PCM, Dolby Digital, DTS, MPEG)

Television System

Tuner System: PAL I 75 ohm

Channel Coverage:

DMR-HS2EB/EB1 only UHF: CH 21-68

DMR-HS2EG/EG1 only VHF: CH E2-E12, A-H2 (For Italy)

UHF: CH 21-69

CATV: CH S01-S05 (S1-S3)
S1-S20 (M1-U10)
S21-S41 (8MHz, RASTER]

DMR-HS2GN VHF: CH 0-12

(For Australia) UHF: CH 28-69

CATV: 45MHz-470MHz

DMR-HS2GN VHF: CH 1-11

(For New Zealand) UHF: CH 21-69

CATV: 44MHz-470MHz

RF Converter Output: UHF: CH21-68, 75 ohm
(For the United kingdom)
Not provided
(Except the United kingdom)

Video

Video System: PAL colour signal, 625 lines, 50 fields
NTSC colour signal, 525 lines, 60 fields

Recooding system: MPEG2 (Hybrid VBR)

Video in: AV1/AV2 (21 pin), AV3/AV4 (pin jack)
1Vp-p 75 ohm, terminated

S-Video in: AV2 (21 pin), AV3/AV4 (S terminal)
1Vp-p 75 ohm, terminated

RGB In: AV2 (21 pin), 0.7Vp-p (PAL) 75 ohm, terminated

Video Out: AV1/AV2 (21 pin), Video Out (pin jack)
1Vp-p 75 ohm, terminated

S-Video Out: AV1 (21 pin), S-Video Out(S terminal)
1Vp-p 75 ohm, terminated

RGB Out: AV1 (21 pin) 0.7Vp-p (PAL) 75 ohm, terminated

Dimensions(W)x(H)x(D): Approx. 430x79x306 mm

Mass: Approx. 4.5 Kg

Operating Temperature: 5°C-40°C

Operating Humidity range: 10%-80% RH (no condensation)

LEASER Specification

Class 1 LASER Product

Wave Length: 775-815nm, 655-666nm

Laser Power: No hazardous radiation is emitted with the safety protection

DV Input: 4 pin

PC card slot: PC Card Type II

Compatible media: A PC Card adaptor conforming to PC Card Standards
PC Card adaptor (SD Memory Card, Multi Media Card, Compact Flash, Smart Media, Memory Stick)

Format: FAT12 or FAT16

Image format: JPEG conforming to DCF (Design Rules for Camera Files System universal standard)
DPOF Compatible

Number of pixels: 320x240 to 6144x4096
(sub sampling; 4:2:2 or 4:2:0)

Thawing time: Approx. 7 sec. (2 M pixels)

Notes:

Mass and dimensions shown are approximate.
Specifications are subject to change without notice.

Notes:

The part of DVD RAM Drive (VXY1748) is listed separately.
Please refer to ORDER NO. DSD0207004C0.



WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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Service Manual

DVD Video Recorder

- DMR-HS2EB
DMR-HS2EB1
DMR-HS2EG
DMR-HS2EG1
DMR-HS2GN

Colour

(S).....Silver Type



Specifications

Power supply:	AC220-240 V, 50 Hz
Power consumption:	39 W
Recording system:	DVD video recording standards (DVD-RAM), DVD video standards (DVD-R)
Hard disk drive capacity:	40 GB
Recordable discs:	12 cm 4.7 GB DVD-RAM 12 cm 9.4 GB DVD-RAM 8 cm 2.8 GB DVD-RAM 12 cm 4.7 GB DVD-R (for General Ver. 2.0)
Recording time:	Max. 6 hours (using 4.7 GB disc) XP: Approx. 1 hour SP: Approx. 2 hours LP: Approx. 4 hours EP: Approx. 6 hours Max. 52 hours (using Hard disc drive) XP: Approx. 8.5 hours SP: Approx. 17 hours LP: Approx. 34 hours EP: Approx. 52 hours
Region Number:	Region No.2 (HS2EB/ EB1/ EG/ EG1) Region No.4 (HS2GN)

Playable discs: 12 cm 4.7 GB DVD-RAM
12 cm 9.4 GB DVD-RAM
8 cm 2.8 GB DVD-RAM
12 cm 4.7 GB DVD-R
(for General Ver. 2.0)
DVD-Video
CD-Audio (CD-DA)
Video CD
CD-R/RW
(CD-DA, Video CD formatted discs)

Audio

Recording system: Dolby Digital, 2ch
LINEAR PCM
(for XP mode only, selectable)

Audio In: AV1/AV2 (21 pin) AV3/AV4 (pin jack)

Input Level: Standard: 0.5 Vms
Full scale: 2 Vms at 1k Hz

Input Impedance: more than 10k ohm

Audio Out: AV1/AV2 (21 pin) Audio Out (pin jack)

Output Level: Standard: 0.5 Vms
Full scale: 2Vms at 1k Hz

Output Impedance: less than 1k ohm

Digital Audio Out: Optical terminal (PCM, Dolby Digital, DTS, MPEG)

Television System

Tuner System: PAL I 75 ohm

Channel Coverage:

DMR-HS2EB/EB1 only UHF: CH 21-68

DMR-HS2EG/EG1 only VHF: CH E2-E12, A-H2 (For Italy)
UHF: CH 21-69
CATV: CH S01-S05 (S1-S3)
S1-S20 (M1-U10)
S21-S41 [8MHz, RASTER]

DMR-HS2GN VHF: CH 0-12
(For Australia) UHF: CH 28-69
CATV: 45MHz-470MHz

DMR-HS2GN VHF: CH 1-11
(For New Zealand) UHF: CH 21-69
CATV: 44MHz-470MHz

RF Converter Output: UHF: CH21-68, 75 ohm
(For the United kingdom)
Not provided
(Except the United kingdom)

Video

Video System: PAL colour signal, 625 lines, 50 fields
NTSC colour signal, 525 lines, 60 fields

Recooding system: MPEG2 (Hybrid VBR)

Video in: AV1/AV2 (21 pin), AV3/AV4 (pin jack)
1Vp-p 75 ohm, terminated

S-Video in: AV2 (21 pin), AV3/AV4 (S terminal)
1Vp-p 75 ohm, terminated

RGB In: AV2 (21 pin), 0.7Vp-p (PAL) 75 ohm, terminated

Video Out: AV1/AV2 (21 pin), Video Out (pin jack)
1Vp-p 75 ohm, terminated

S-Video Out: AV1 (21 pin), S-Video Out(S terminal)
1Vp-p 75 ohm, terminated

RGB Out: AV1 (21 pin) 0.7Vp-p (PAL) 75 ohm, terminated

Dimensions(W)x(H)x(D): Approx. 430x79x306 mm

Mass: Approx. 4.5 Kg

Operating Temperature: 5°C-40°C

Operating Humidity range: 10%-80% RH (no condensation)

LEASER Specification

Class 1 LASER Product

Wave Length:	775-815nm, 655-666nm
Laser Power:	No hazardous radiation is emitted with the safety protection
DV Input:	4 pin
PC card slot:	PC Card Type II
Compatible media:	A PC Card adaptor conforming to PC Card Standards PC Card adaptor (SD Memory Card, Multi Media Card, Compact Flash, Smart Media, Memory Stick)
Format:	FAT12 or FAT16
Image format:	JPEG conforming to DCF (Design Rules for Camera Files System universal standard) DPOF Compatible
Number of pixels:	320×240 to 6144×4096 (sub sampling; 4:2:2 or 4:2:0)
Thawing time:	Approx. 7 sec. (2 M pixels)

Notes:

Mass and dimensions shown are approximate.
Specifications are subject to change without notice.

Notes:

The part of DVD RAM Drive (VXY1748) is listed separately.
Please refer to ORDER NO. DSD0207004C0.

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 **WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1.1 Comparison for each part

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Below chart is mentioned different items for each models.

PARTS NAME	PART NO.	EB/EB1	EG/EG1	GN
MAIN P.C.B.	REP2577C	---	•	•
	REP2577D	•	---	---
VIF DECODER P.C.B.	VEP07A23S	---	•	•
	VEP07A23T	•	---	---
DIGITAL P.C.B.	REP3391AC	---	•	---
	REP3391AE	---	---	•
	REP3391CE	•	---	---
REAR PANEL	RGR0328C-C	---	•	---
	RGR0328C-D	•	---	---
	RGR0328C-H	---	---	•
FRONT PANEL ASS'Y2	RYP1142B-S	---	•	---
	RYP1142C-S	•	---	---
	RYP1142D-S	---	---	•
DOOR(R)	RKF0643F-S	---	•	---
	RKF0643G-S	•	---	---
	RKF0643J-S	---	---	•
REMOTE CONTROL ASS'Y	EUR7615KE0	•	---	---
	EUR7615KD0	---	•	---
	EUR7615KL0	---	---	•
AC CORD	RJA0053-3X	•	---	---
	VJA0754	---	---	•
	VJA1059	---	•	---
OPERATING INSTRUCTIONS	RQT6597-B	•	---	---
	RQT6598-E	---	•	•
	RQT6599-D	---	•	---
	RQT6600-J	---	•	---
PACKING CASE	RPG6046	---	•	---
	RPG6047	•	---	---
	RPG6176	---	---	•

Note:

Only DMR-HS2EB/EG have RAM disc as accesary.

However, this disc is not supplied as service part.

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1.2 Comparison for function

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Function	DMR-HS2EB/EB1	DMR-HS2EG/EG1/GN
Owner ID	•	---
Power Save	---	•
Language	---	•
Country	---	•

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2 SAFETY PRECAUTIONS

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[2.1 GENERAL GUIDELINES](#)

[2.1.1 LEAKAGE CURRENT COLD CHECK](#)

[2.1.2 LEAKAGE CURRENT HOT CHECK \(See Figure 1.\)](#)

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2.1 GENERAL GUIDELINES

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1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

[2.1.1 LEAKAGE CURRENT COLD CHECK](#)

[2.1.2 LEAKAGE CURRENT HOT CHECK \(See Figure 1 .\)](#)

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2.1.1 LEAKAGE CURRENT COLD CHECK

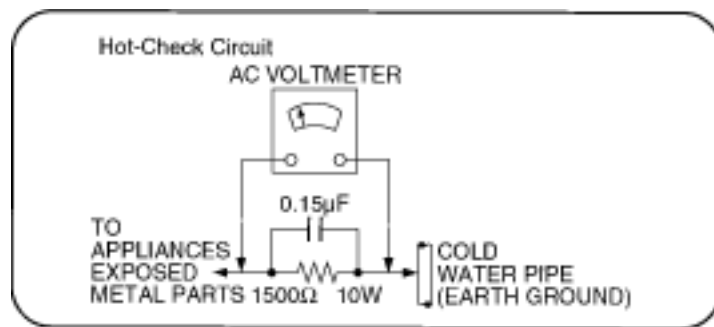
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1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1M\Omega$ and $5.2M\Omega$.

When the exposed metal does not have a return path to the chassis, the reading must be

∞.

Figure 1



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2.1.2 LEAKAGE CURRENT HOT CHECK (See [Figure 1](#) .)

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1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 μ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in [Figure 1](#) 0.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

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3 PREVENTION OF ELECTRO STATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

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Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).


1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

[Caution](#)

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by  in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

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5 How to replace the Lithium Battery

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REPLACEMENT PROCEDURE

1. Remove the Top cover and DVD-RAM drive unit with Main P.C.B. by referring the Disassembling Procedure.
2. Unsolder the Lithium Batteries: B7501 and then replace it into new one.

(As shown in 9.10. The Main P.C.B.)

NOTE:

The lithium battery is a critical component. (Type No.: CR2354-1GUF Manufactured by Panasonic.)

It must never be subjected to excessive heat or discharge.

It must therefore only be fitted in equipment designed specifically for its use.

Replacement batteries must be of the same type and manufacture.

They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.

Do not attempt to re-charge the old battery or re-use it for any other purpose.

It should be disposed of in waste products destined for burial rather than incineration.

(For English)

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

(For French)

PRECAUTION

Le fait de remplacer incorrectement la pile peut présenter des risques d'explosion.
Remplacer la pile uniquement par une pile identique ou de type équivalent recommandée par le fabricant. Se débarrasser des piles usagées conformément aux instructions du fabricant.

(For German)

VORSICHT

Bei einer falsch eingesetzten Batterie besteht Explosionsgefahr. Nur mit einer vom gleichen Typ ersetzen.
Verbrauchte Batterien beim Fachhändler oder einer Sammelstelle für Sonderstoffe abliefern.

(For Swedish)

VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens instruktion.

(For Norwegian)

ADVARSEL!

Lithiumbatteri-Eksplosionsfare ved feilagtig håndtering.
Udskiftning må kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

(For Finnish)

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin.
Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

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6 Handling the Lead-free Solder

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[6.1 About lead free solder \(PbF\)](#)

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6.1 About lead free solder (PbF)

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Distinction of PbF P.C.B.:

P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

Caution:

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to $700 \pm 20^\circ\text{F}$ ($370 \pm 10^\circ\text{C}$).
- Pb free solder will tend to splash when heated too high (about 1100°F/600°C).
- When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

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7 General Description

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[7.1 Control reference guide](#)

[7.2 PC CARD \(JPEG\)](#)

[7.3 Still pictures \(JPEG\)](#)

[7.4 Checking the Accessories](#)

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7.1 Control reference guide

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7.2 PC CARD (JPEG)

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7.3 Still pictures (JPEG)

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7.4 Checking the Accessories

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8 Notes When Servicing the Unit

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Perform the servicing according to the following procedures.

[8.1 When the disc of a customer cannot be pulled out due to a failure](#)

[8.2 When the ratings password is forgotten](#)

[8.3 When the disc cannot be taken out due to sales demonstration lock function](#)

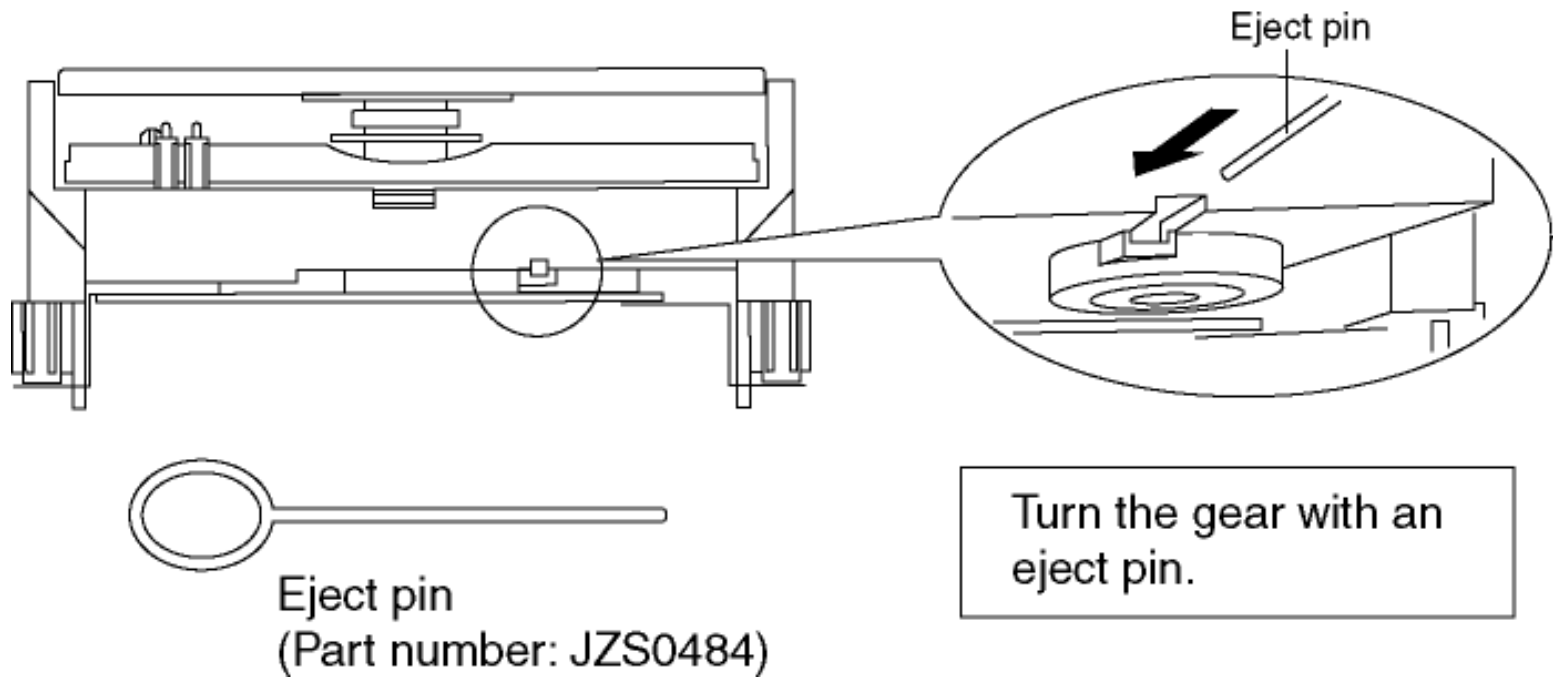
[8.4 Handling of HDD](#)

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8.1 When the disc of a customer cannot be pulled out due to a failure

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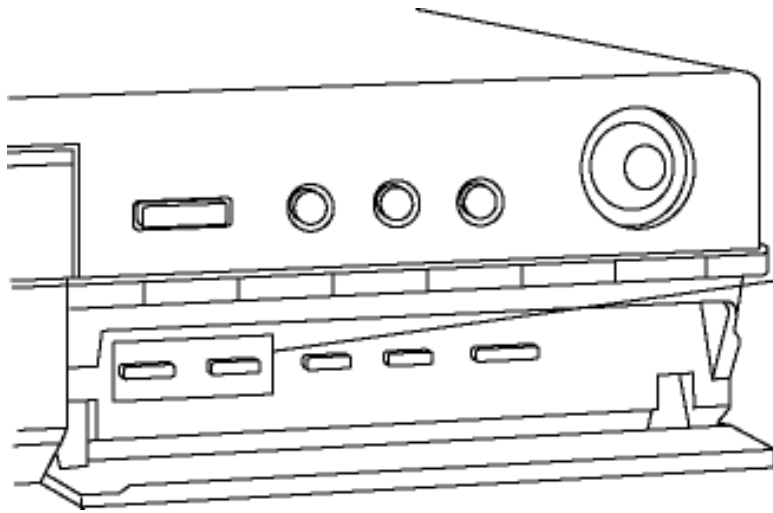
1. Remove the top case and front case according to the disassembly procedures of each component.
2. Insert the eject pin into the hole on the front side of the drive to push the gear inside the hole several times. Then the tray opens slowly. (The operation is as same as the operation in the RAM drive)



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8.2 When the ratings password is forgotten

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Press and keep the (R) and (L) SKIP keys simultaneously for 5 seconds, with the disc tray opened.

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8.3 When the disc cannot be taken out due to sales demonstration lock function

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(Press the open/close key and make sure that "LOCKED" appears on the display window.)

In this condition, press the "Stop" and "Power" buttons simultaneously for 5 seconds while the unit is standstill, releasing the lock function.

(To make the unit "LOCKED" condition, press the "Stop" and "Power" buttons simultaneously for 5 seconds while the unit is standstill.)

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8.4 Handling of HDD

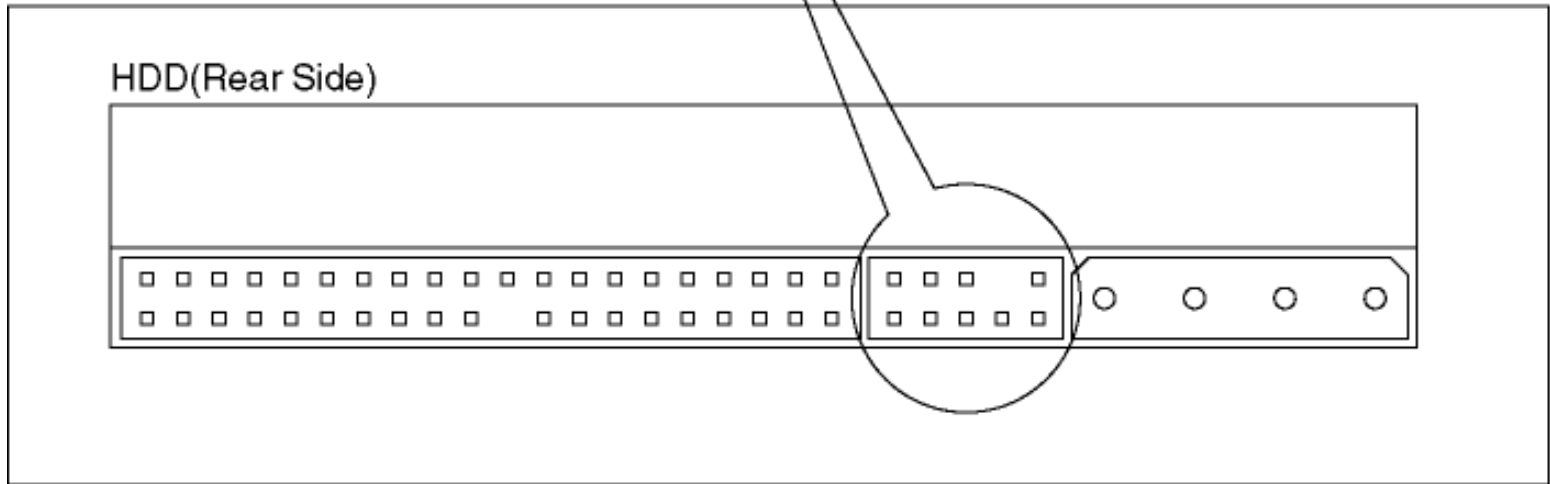
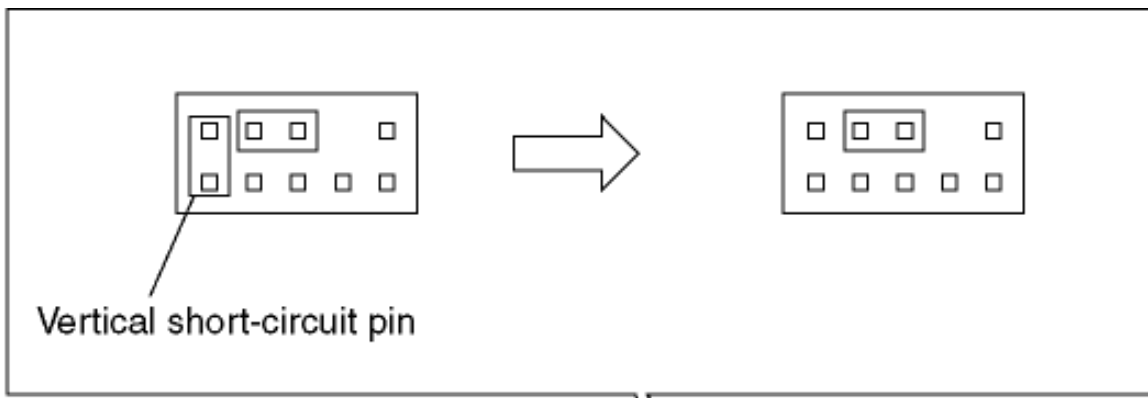
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The following precautions should be taken when handling HDD.

1. Never give an impact to HDD. (Even a drop from 1cm height can be a cause of HDD failure.)
2. When placing HDD on a workbench, provide a mat on a bench for shock absorption and anti-static purposes.
3. When installing HDD, release it from your hands only after confirming that it is fully set on the chassis.
4. Avoid stacking up HDD.
5. HDD is unstable and easy to fall. Do not stand it on its side face.
6. When handling HDD, hold its side faces to avoid static hazard.
7. Do not place HDD on its wrapping bag after removal. (Prevention of static hazard)
8. Use a screwdriver with low impact and anti-static features.
9. To replace HDD, remove the vertical short-circuit pin.

Note:

Keep the horizontal short-circuit pin in its place.



9 Assembling and Disassembling

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[9.1 Disassembly flow chart](#)

[9.2 P.C.B. positions](#)

[9.3 The Top cover](#)

[9.4 The Front panel](#)

[9.5 The PC Card P.C.B.](#)

[9.6 The Digital P.C.B.](#)

[9.7 The ATAPI P.C.B.](#)

[9.8 The Front \(L\)/\(R\) P.C.B.,Stick P.C.B. and DV Jack P.C.B.](#)

[9.9 The DVD-RAM drive](#)

[9.10 The Rear panel](#)

[9.11 The HDD](#)

[9.12 The Power supply P.C.B.](#)

[9.13 The Main P.C.B.](#)

[9.14 Scart P.C.B.](#)

[9.15 RGB P.C.B.](#)

[9.16 The VIF Decoder P.C.B. and Nicam/Decoder P.C.B.](#)

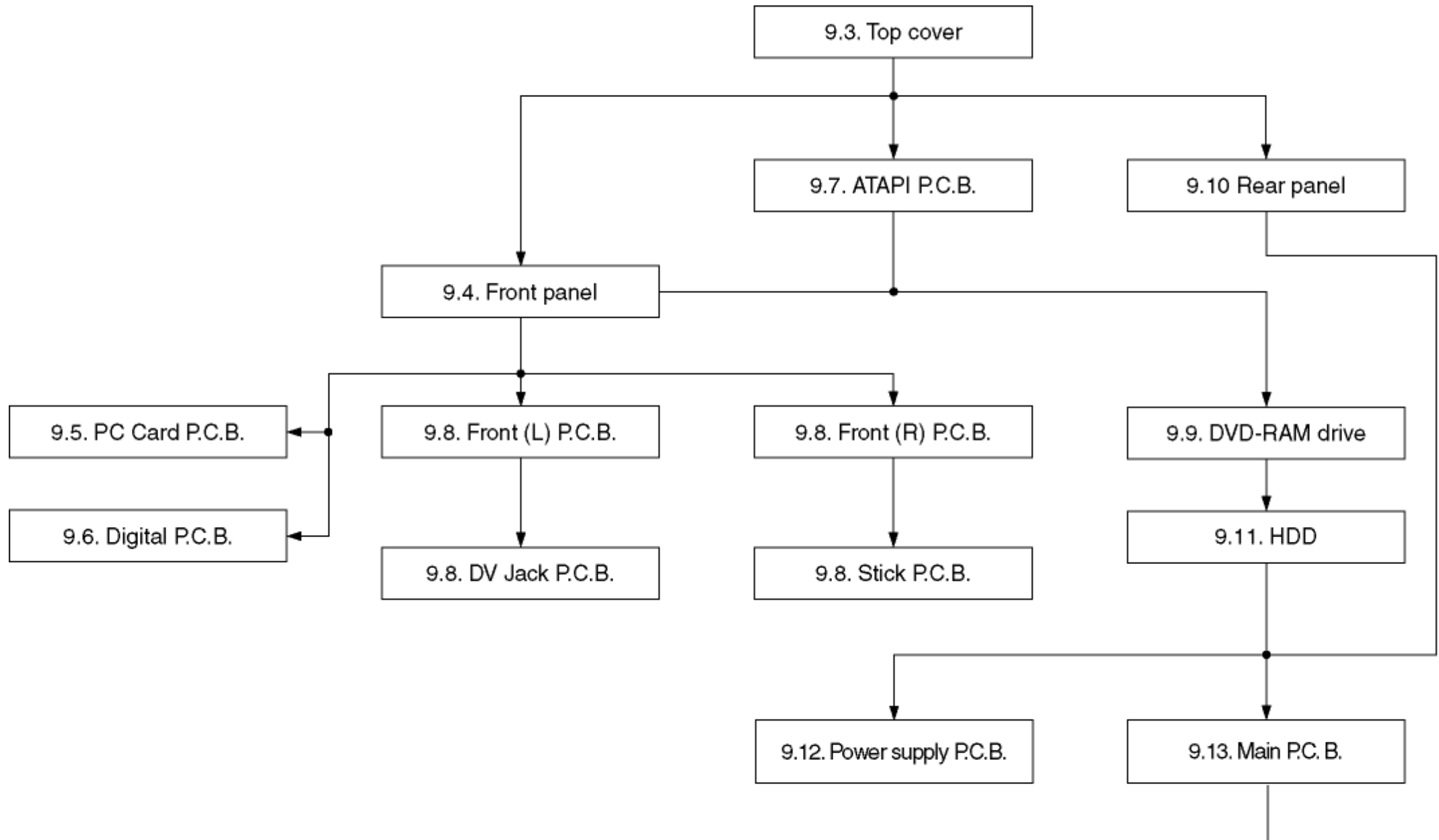
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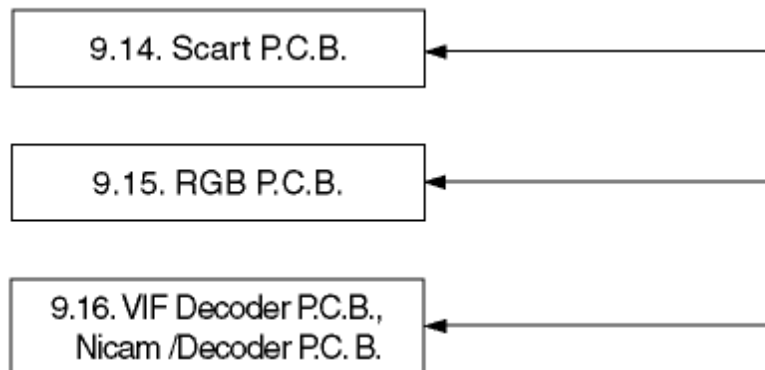
9.1 Disassembly flow chart

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The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.

To assemble the unit, reverse the steps shown in the flow chart below.

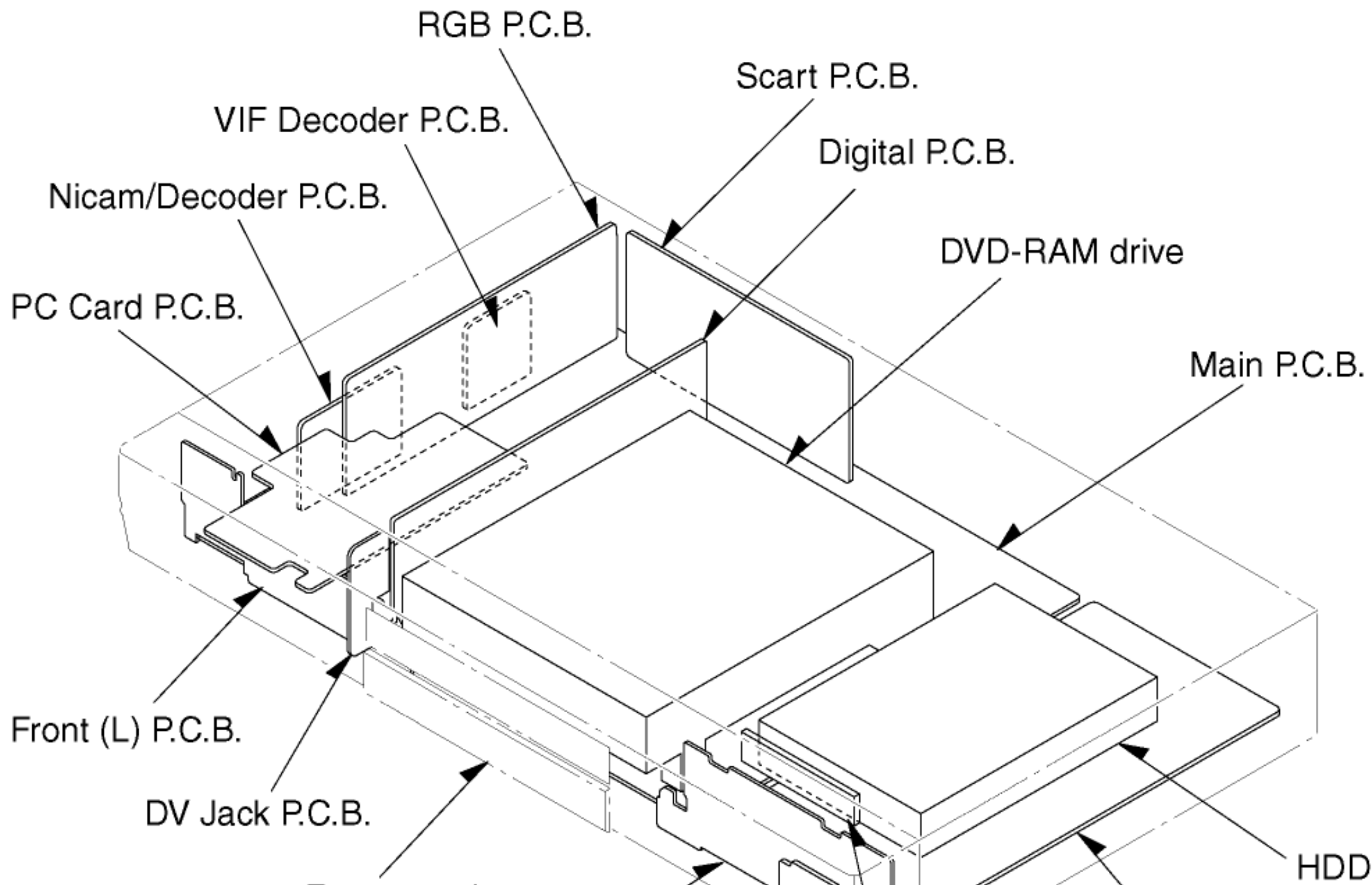


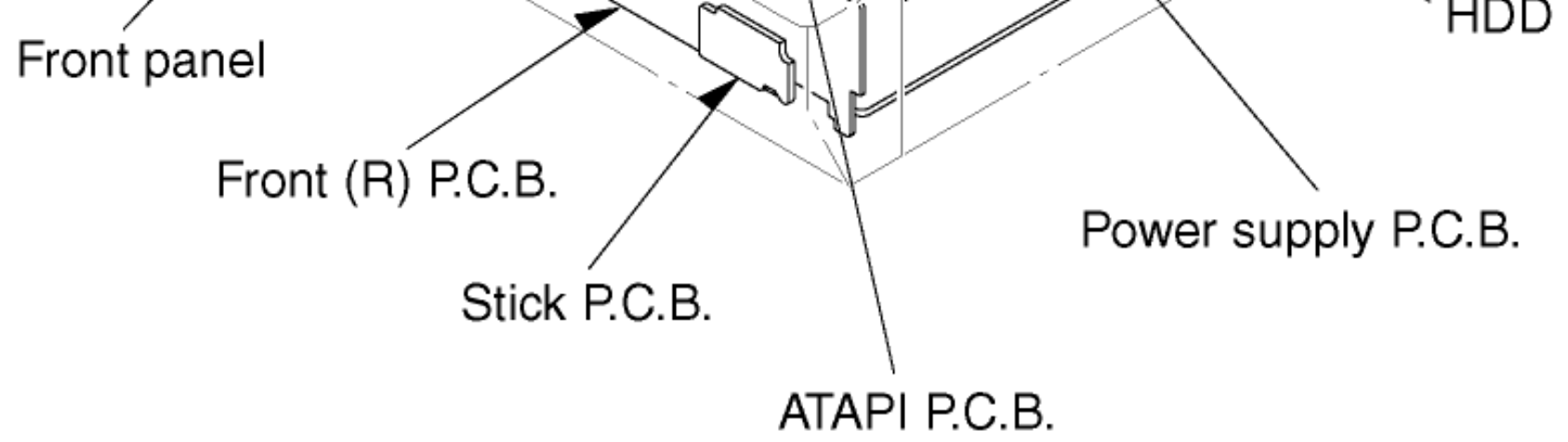


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9.2 P.C.B. positions

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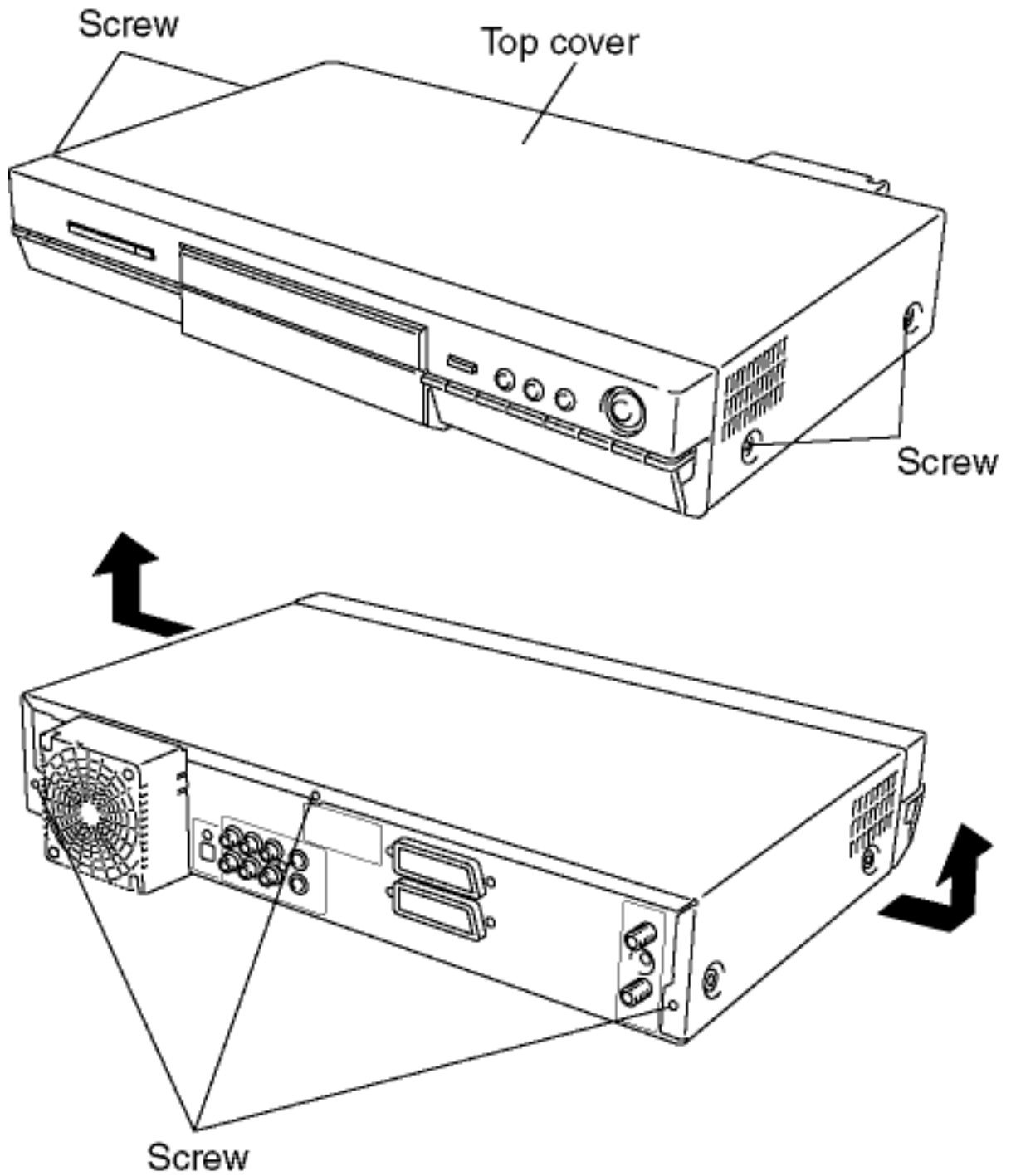


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9.3 The Top cover

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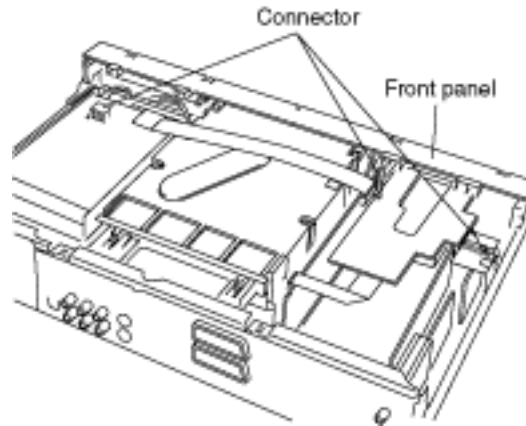
1. Remove the 7 screws.
2. Open the both ends at the front side of the Top cover a bit and lift the Top cover in the direction of the arrows.



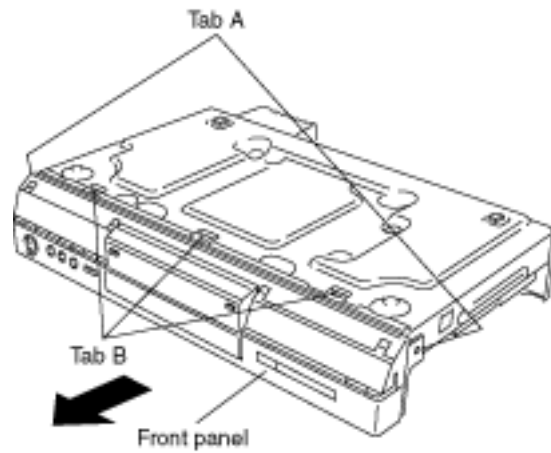
9.4 The Front panel

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1. Remove the 3 connectors.



2. Remove at the same time 2 tab A and 3 tab B.
3. Move the front panel to your side slowly and remove it.

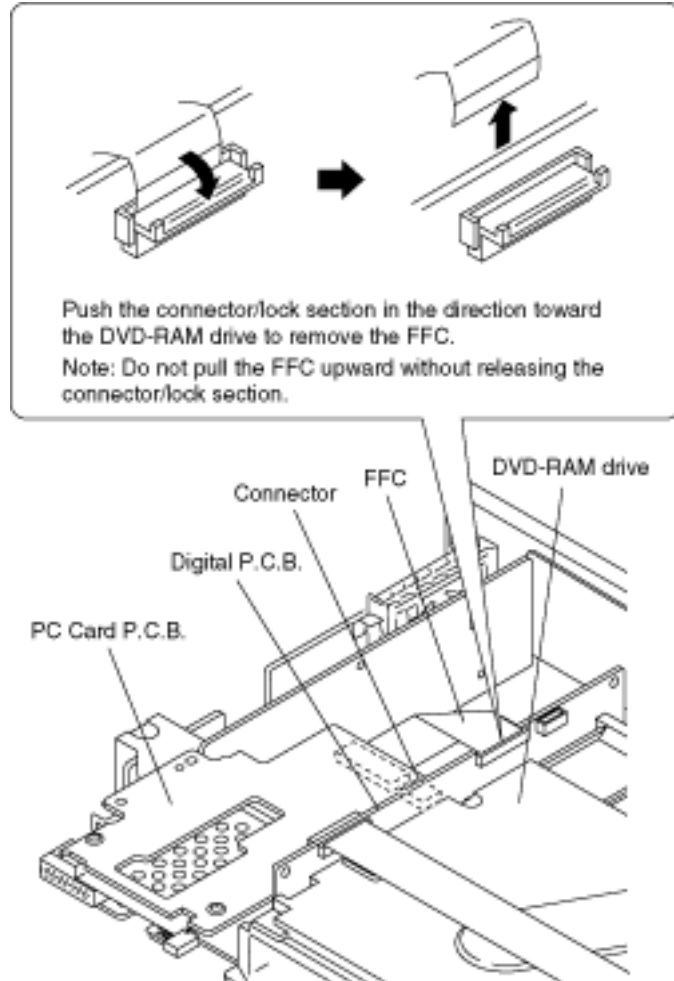


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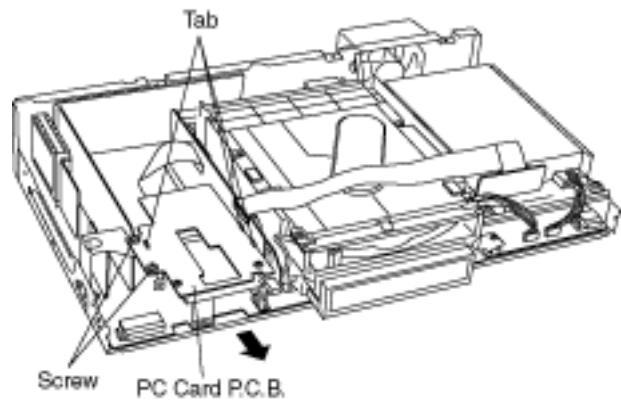
9.5 The PC Card P.C.B.

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1. Remove the FFC.
2. Remove the connector.



3. Remove the 2 screws.
4. It makes the PC Card P.C.B. move to the direction of the arrow and it removes it from the 3 tabs.

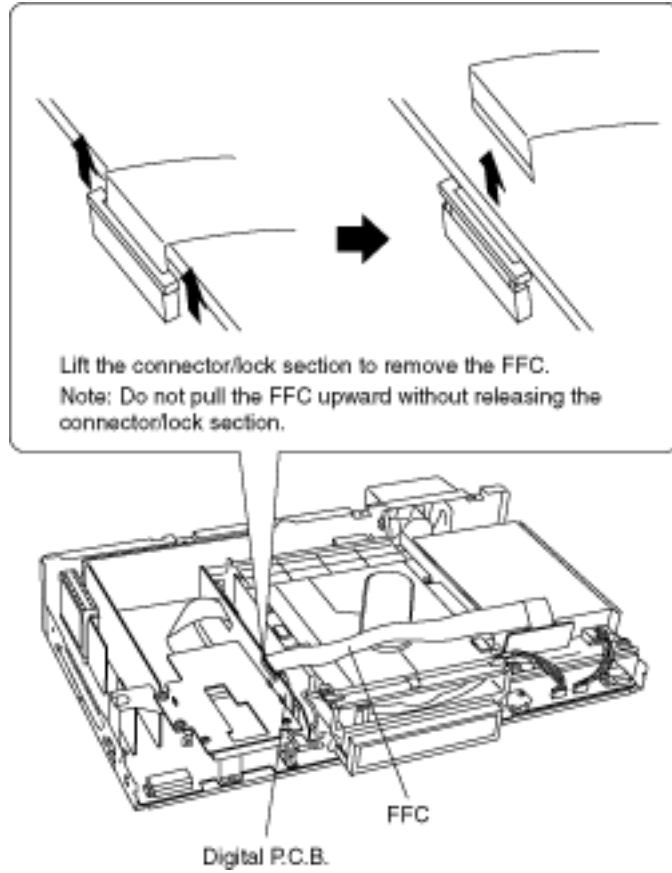


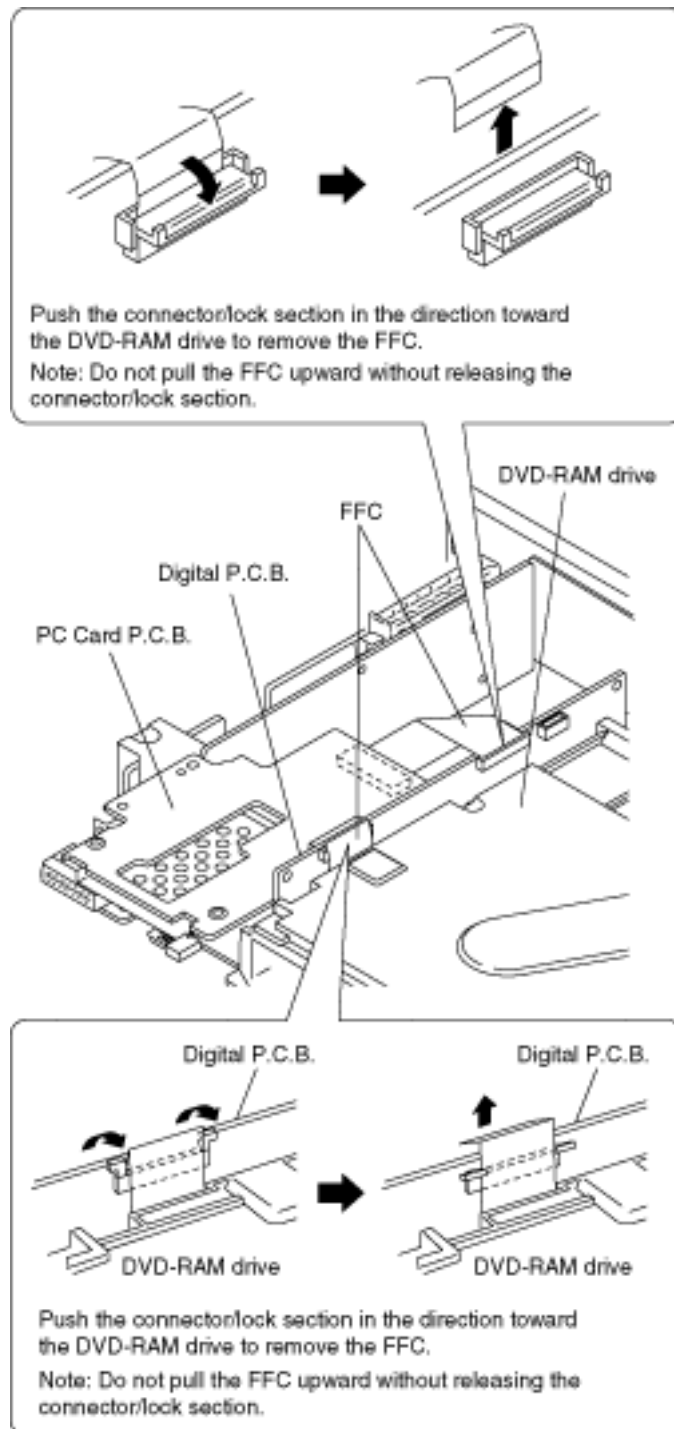
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9.6 The Digital P.C.B.

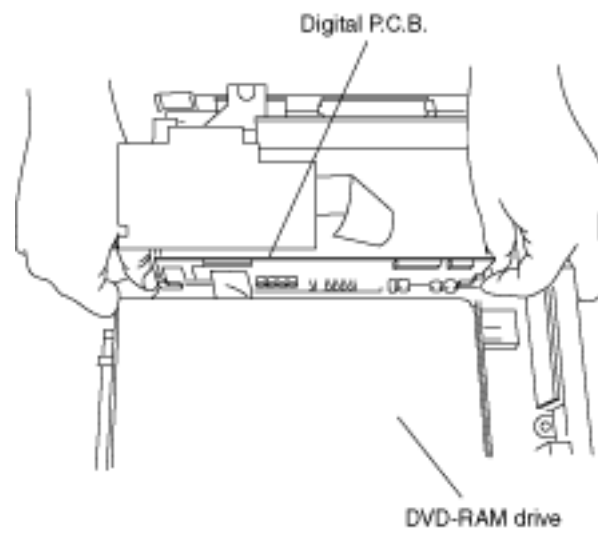
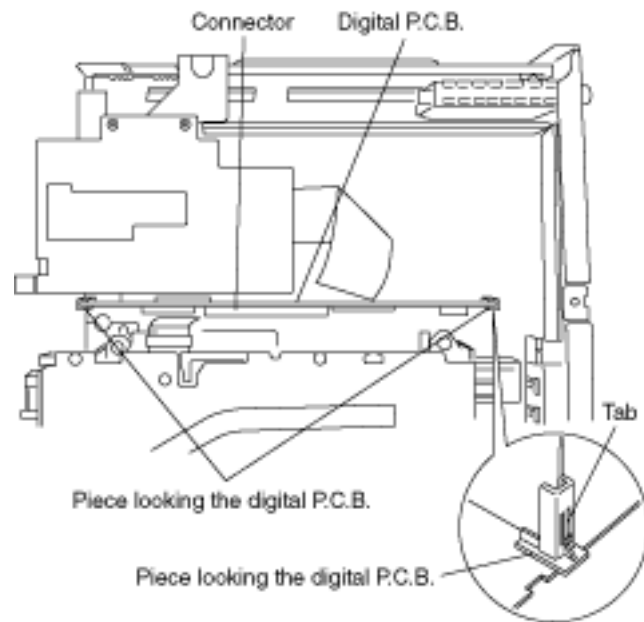
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1. Remove the 3 FFCs.



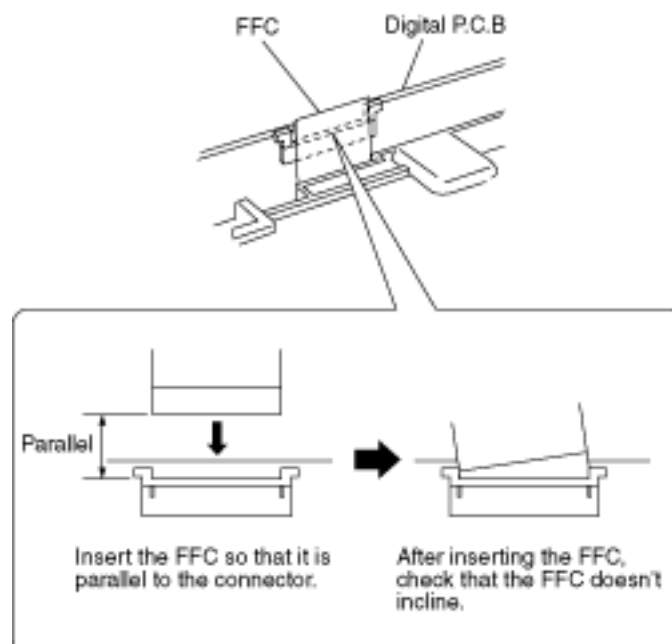


2. Open the tabs for the pieces locking the Digital P.C.B. and slowly lift the Digital P.C.B. in the vertical direction to remove the connector.



CAUTION:

When replacing Digital P.C.B., pay attention as below.

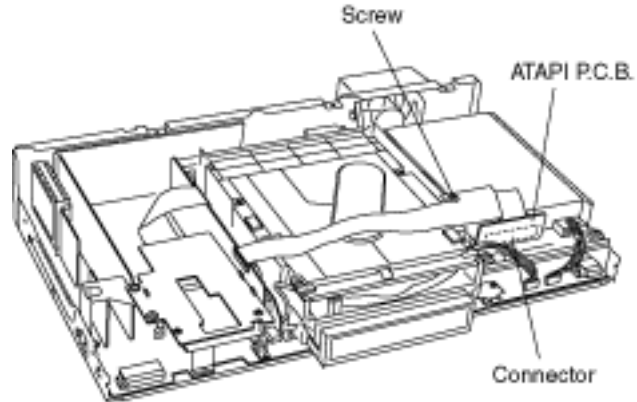


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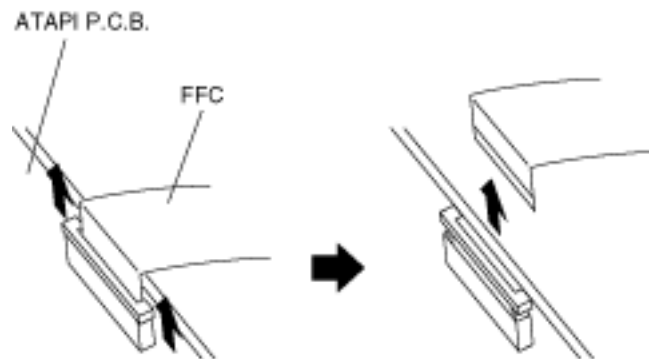
9.7 The ATAPI P.C.B.

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1. Remove the screw.
2. Remove the connector.



3. Remove the FFC.



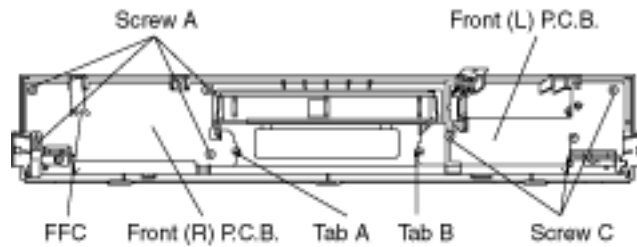
Lift the connector/lock section to remove the FFC.
Note: Do not pull the FFC upward without releasing the connector/lock section.

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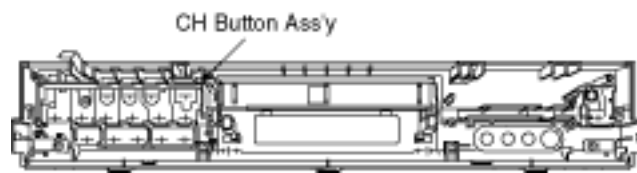
9.8 The Front (L)/(R) P.C.B., Stick P.C.B. and DV Jack P.C.B.

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1. Remove the FFC.
2. Remove the 4 screws A, tab A and the Front (R) P.C.B. in this order.



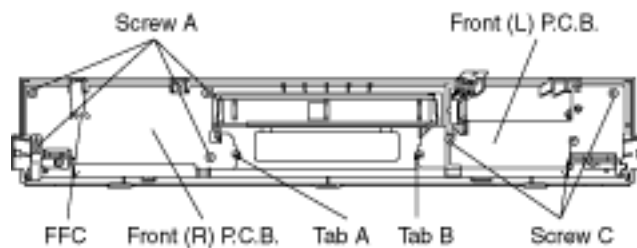
3. Remove the CH Button Ass'y.



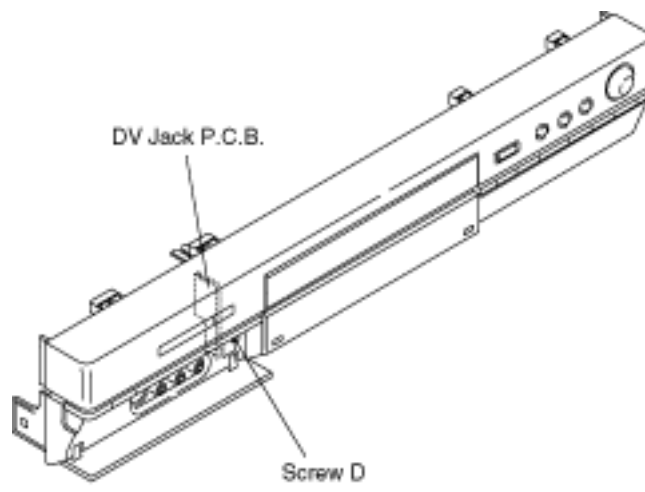
4. Remove the 2 screws B and the Stick P.C.B. in this order.



5. Remove the 3 screws C, tab B and the Front (L) P.C.B. in this order.



6. Remove the screw D and the DV Jack P.C.B. in this order.

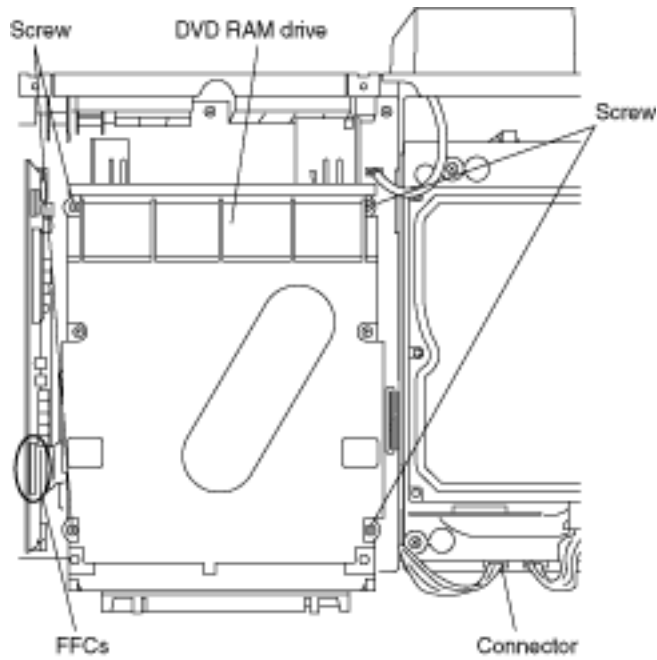


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9.9 The DVD-RAM drive

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1. Remove the 2 FFCs. (Refer to 9.6.)
2. Remove the connector.
3. Remove the 4 screws.

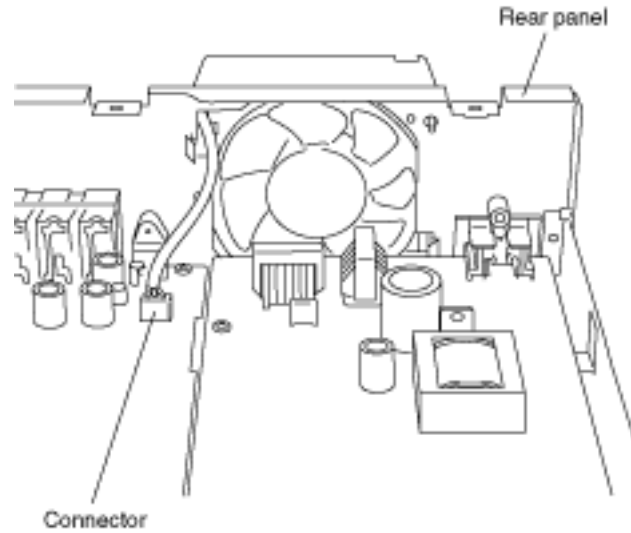


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9.10 The Rear panel

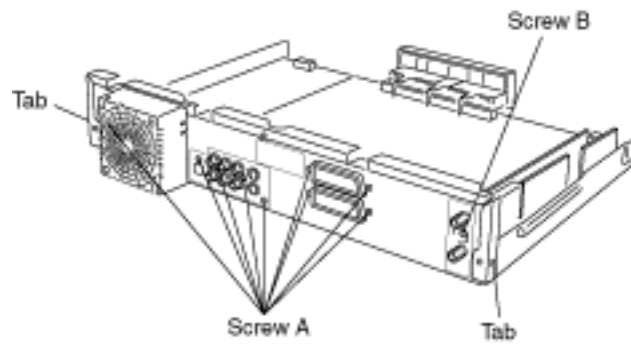
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1. Remove the connector.



2. Remove the 8 screws A and 1 screw B.

3. Remove the tabs.

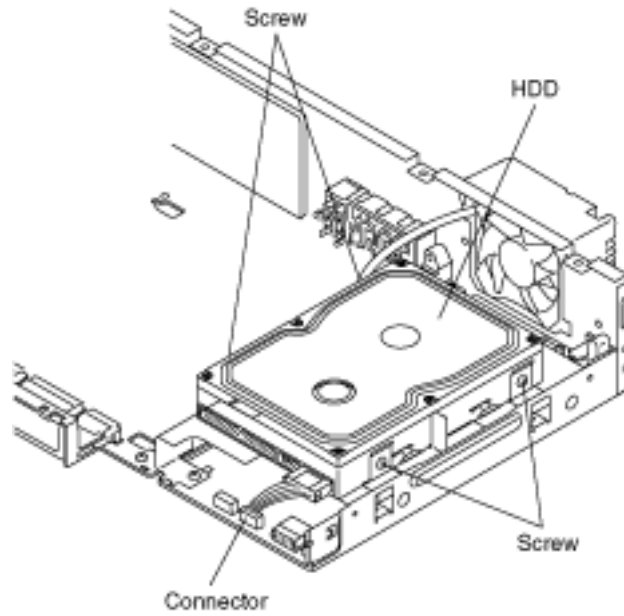


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9.11 The HDD

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1. Remove the connector.
2. Remove the 4 screws.

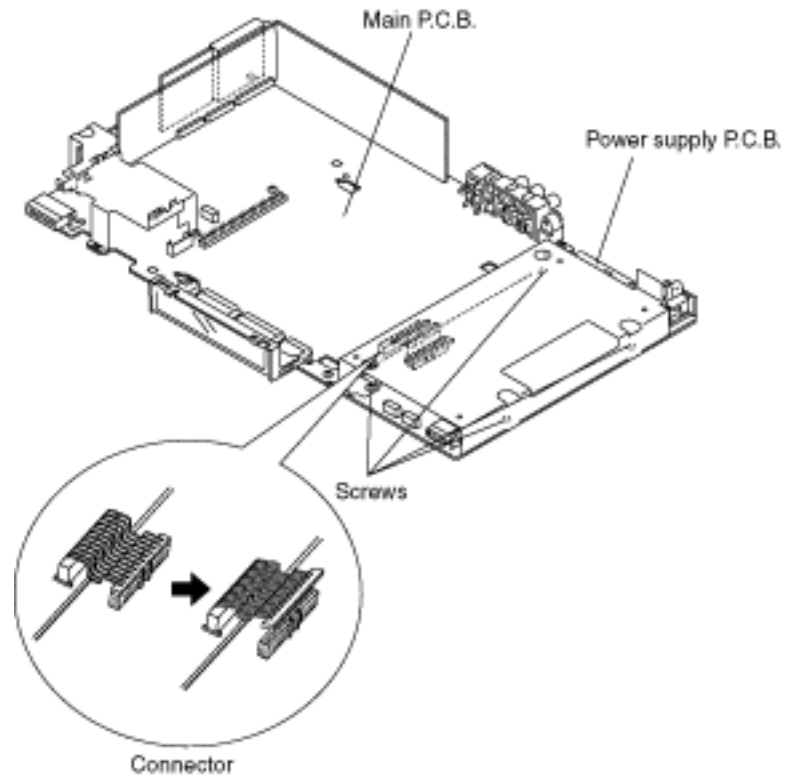


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9.12 The Power supply P.C.B.

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1. Remove the 4 screws.
2. Remove the connector.
3. Remove the Power supply P.C.B.

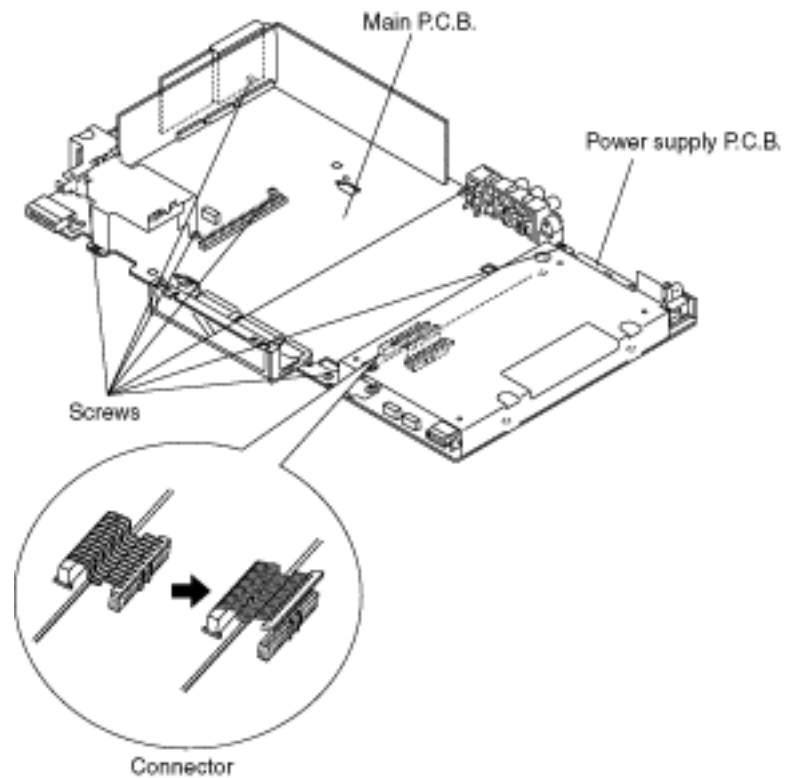


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9.13 The Main P.C.B.

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1. Remove the 7 screws.
2. Remove the connector.
3. Remove the Main P.C.B.

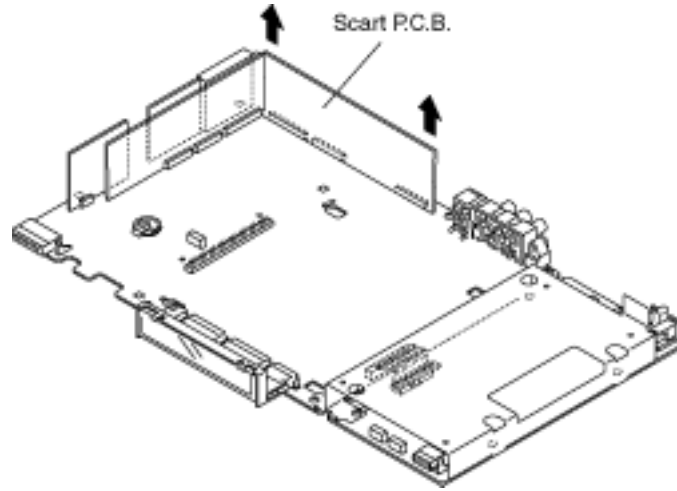


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9.14 Scart P.C.B.

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1. Pull out the Scart P.C.B.

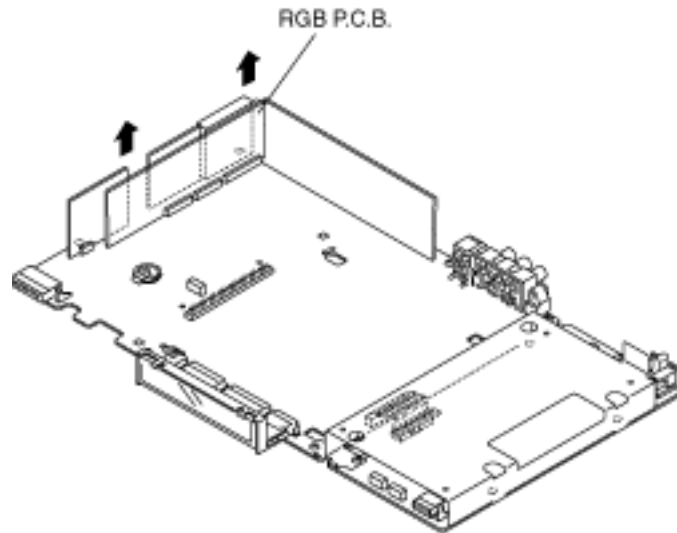


[TOP](#) [PREVIOUS](#) [NEXT](#)

9.15 RGB P.C.B.

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1. Pull out the R.G.B. P.C.B.



Note:

Pull out the RGB and Scart P.C.B. after removing at a slant.

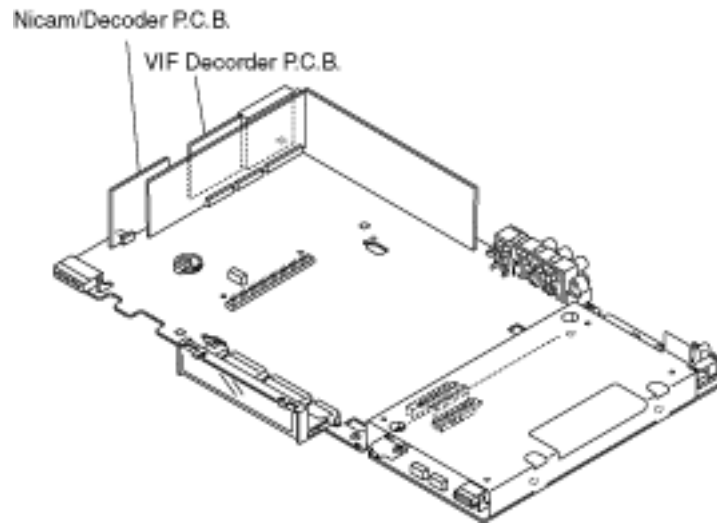


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9.16 The VIF Decoder P.C.B. and Nicam/Decoder P.C.B.

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1. Remove the solder.
2. Remove the connector.



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10 Service Positions and Tools

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[10.1 Checking procedure](#)

[10.2 Checking PC card P.C.B.](#)

[10.3 Checking the Power supply P.C.B. and the DVD-RAM drive](#)

[10.4 Checking the Power supply and Main P.C.B.s](#)

[10.5 Service tools](#)

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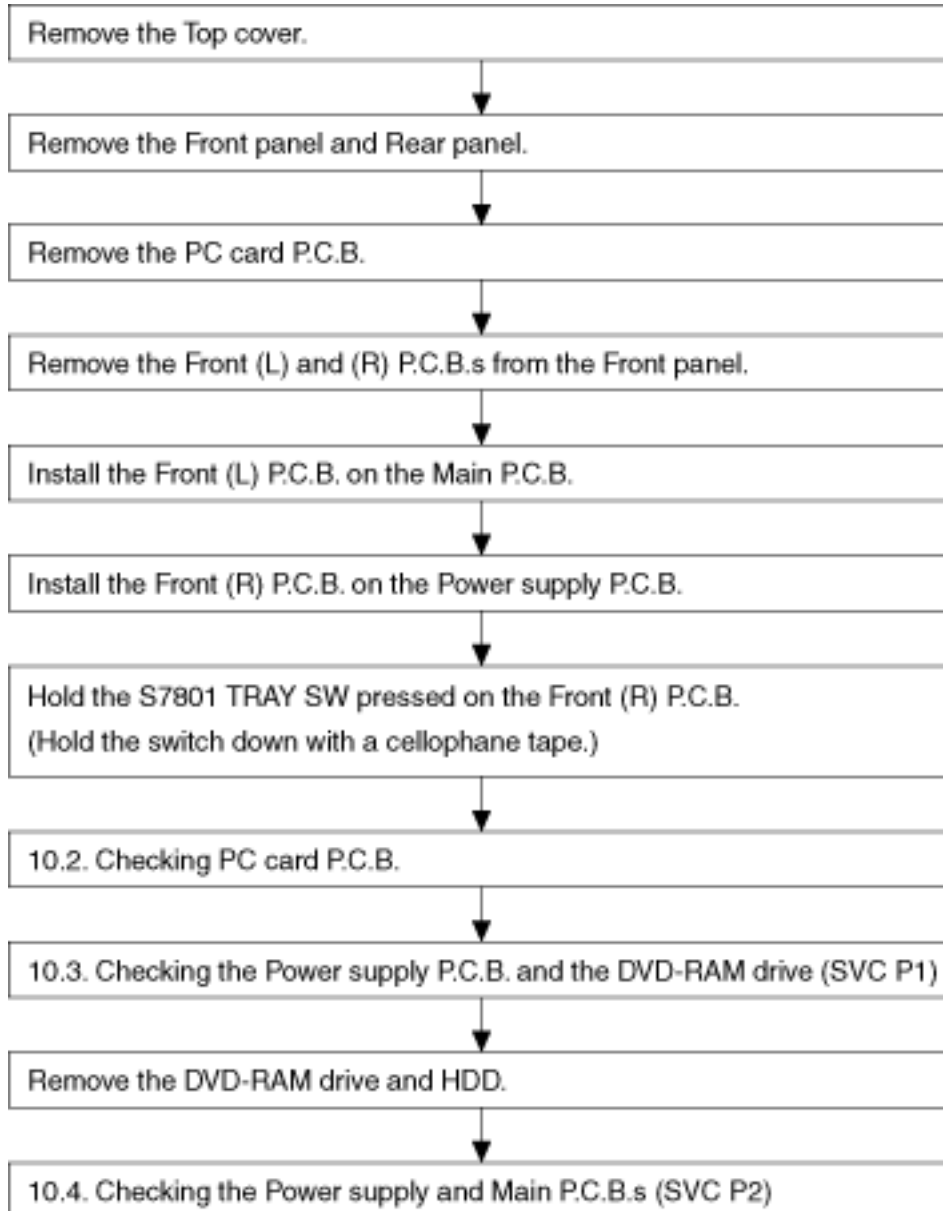
10.1 Checking procedure

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Follow the flowchart below and inspect the DVD recorder.

Note:

For the disassembling procedure, see the section 9.



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10.2 Checking PC card P.C.B.

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1. Check the operations in service mode.

Note:

See Section 11 for the details.

2. If any abnormality is found, proceed with the next step.

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10.3 Checking the Power supply P.C.B. and the DVD-RAM drive

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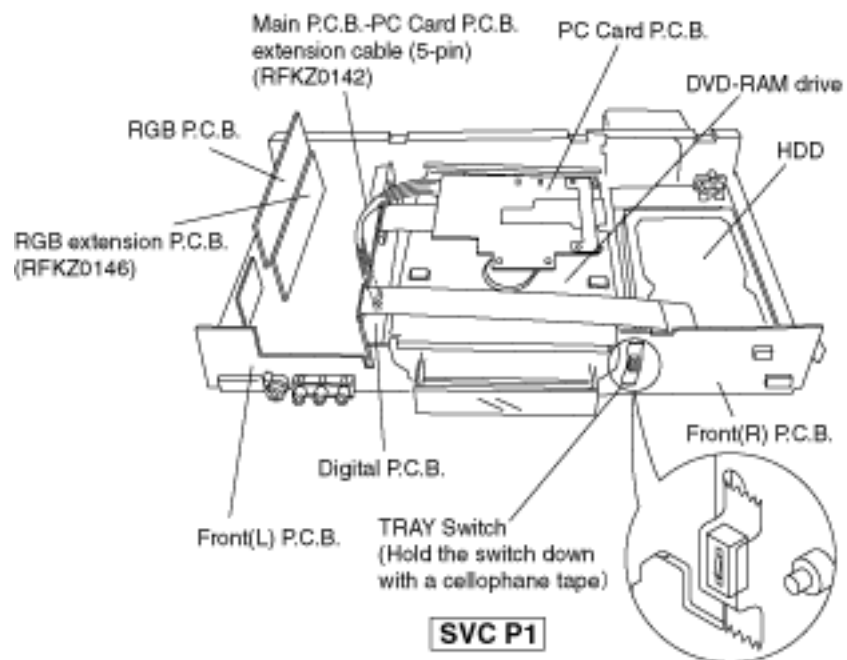
1. Remove the PS104 connector.
2. Use the extension cable (RFKZ0126) to connect the DVD-RAM drive and the Power supply P.C.B.
3. Check the voltage supplied to PC card P.C.B. and UART P.C.B. If any abnormality is found, proceed with SVC P2 in 10.4.
4. Measure each terminal of the PS102/PP9902 connector.

PS102/PP9902 Connector Reference Voltage.

PIN. NO.	Voltage
1	+15.5V
2	+5.9V
3	+5.9V
4	+5.0V
6	+5.0V
8	+12.0V
10	+3.3V
12	+1.8V
13	+1.8V

5. If any failure is found, go to SVC P2 in section 10.4.

Service tools	
RAM drive-Power supply P.C.B. extension cable	RFKZ0126 (4-pin)
Main P.C.B.-PC Card P.C.B. extension cable	RFKZ0142 (5-pin)
RGB extension cable	RFKZ0146



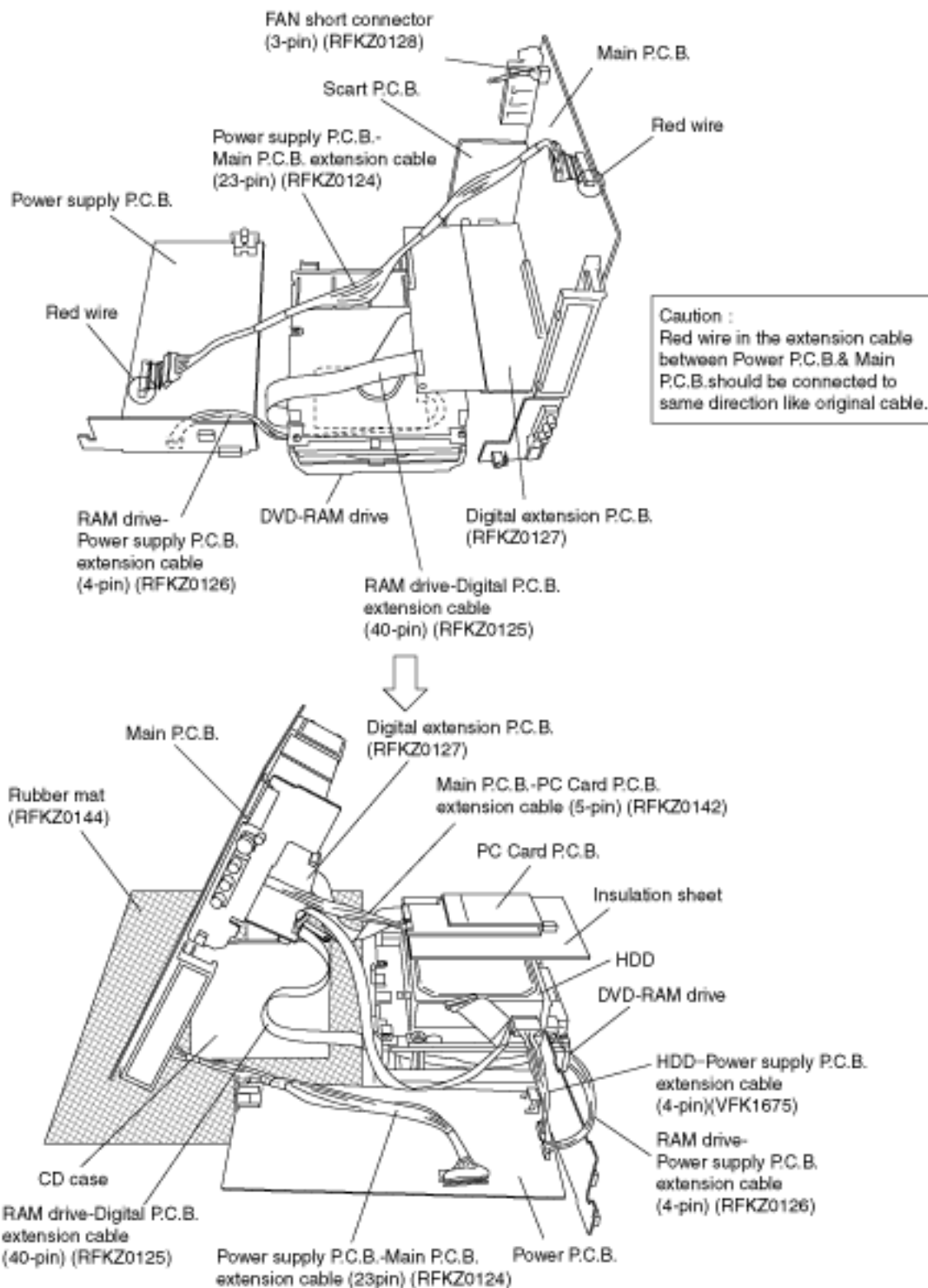
[TOP](#) [PREVIOUS](#) [NEXT](#)

10.4 Checking the Power supply and Main P.C.B.s

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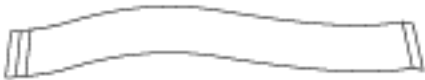




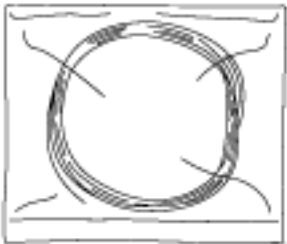

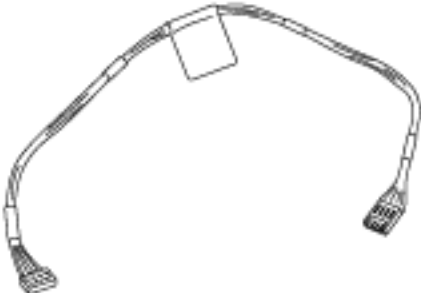
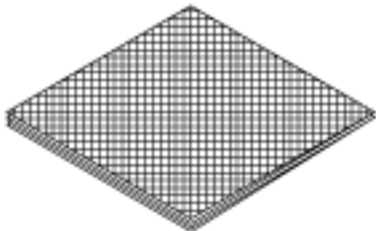

1. Use the extension cable (RFKZ0124) to connect the Main P.C.B. (PP9902) and the Power supply P.C.B. (PS102).
2. Use the extension cable (RFKZ0126) to connect the DVD-RAM drive (PP9902) and the Power supply P.C.B. (PS104).
3. Use the extension cable (RFKZ0125) to connect the DVD-RAM drive and the Digital P.C.B. (P3401).
4. Insert the FAN short connector (RFKZ0128) into the connector (P7503) on the Main P.C.B.
5. Insert the extension cable between Main P.C.B. and PC card P.C.B. to the connector (P9901) of the Main P.C.B.
6. Connect HDD and PC card P.C.B. Follow SVC P2 for installation.

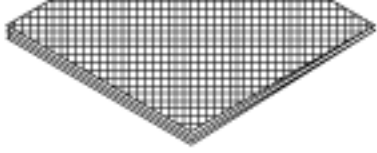
Service tools	
Power supply P.C.B.-Main P.C.B. extension cable	RFKZ0124(23-pin)
RAM drive-Digital P.C.B. extension cable	RFKZ0125(40-pin)
RAM drive-Power supply P.C.B. extension cable	RFKZ0126(4-pin)
Digital extension P.C.B.	RFKZ0127
FAN short connector	RFKZ0128(3-pin)
Main P.C.B.-PC Card P.C.B. extension cable	RFKZ0142(5-pin)
Rubber mat	RFKZ0144
HDD-Power supply P.C.B. extension cable	VFK1675 (4-pin)



10.5 Service tools

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<p>Power supply P.C.B. - Main P.C.B. extension cable (23-pin)</p>  <p>RFKZ0124</p>	<p>RAM drive- Digital P.C.B. extension cable (40-pin)</p>  <p>RFKZ0125</p>	<p>RAM drive- Power supply P.C.B. extension cable (4-pin)</p>  <p>RFKZ0126</p>
<p>Digital extension P.C.B.</p>  <p>RFKZ0127</p>	<p>FAN short connector (3-pin)</p>  <p>RFKZ0128</p>	<p>Eject pin</p>  <p>JZS0484</p>
<p>Pb free solder</p>  <p>VUA7090A03E (0.3 mm × 3 m) VUA7090A06E (0.6 mm × 3 m)</p>	<p>Main P.C.B. - PC Card P.C.B. extension cable (5-pin)</p>  <p>RFKZ0142</p>	<p>HDD - Power supply P.C.B. extension cable (4-pin)</p>  <p>VFKZ1675</p>
<p>Rubber mat</p> 	<p>RGB extension P.C.B.</p> 	



RFKZ0144



RFKZ0146

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11 Repair and checking procedures

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[11.1 Flow chart](#)

[11.2 Inspection and checking procedures](#)

[11.3 Hint for repair](#)

[11.4 Special modes at a glance](#)

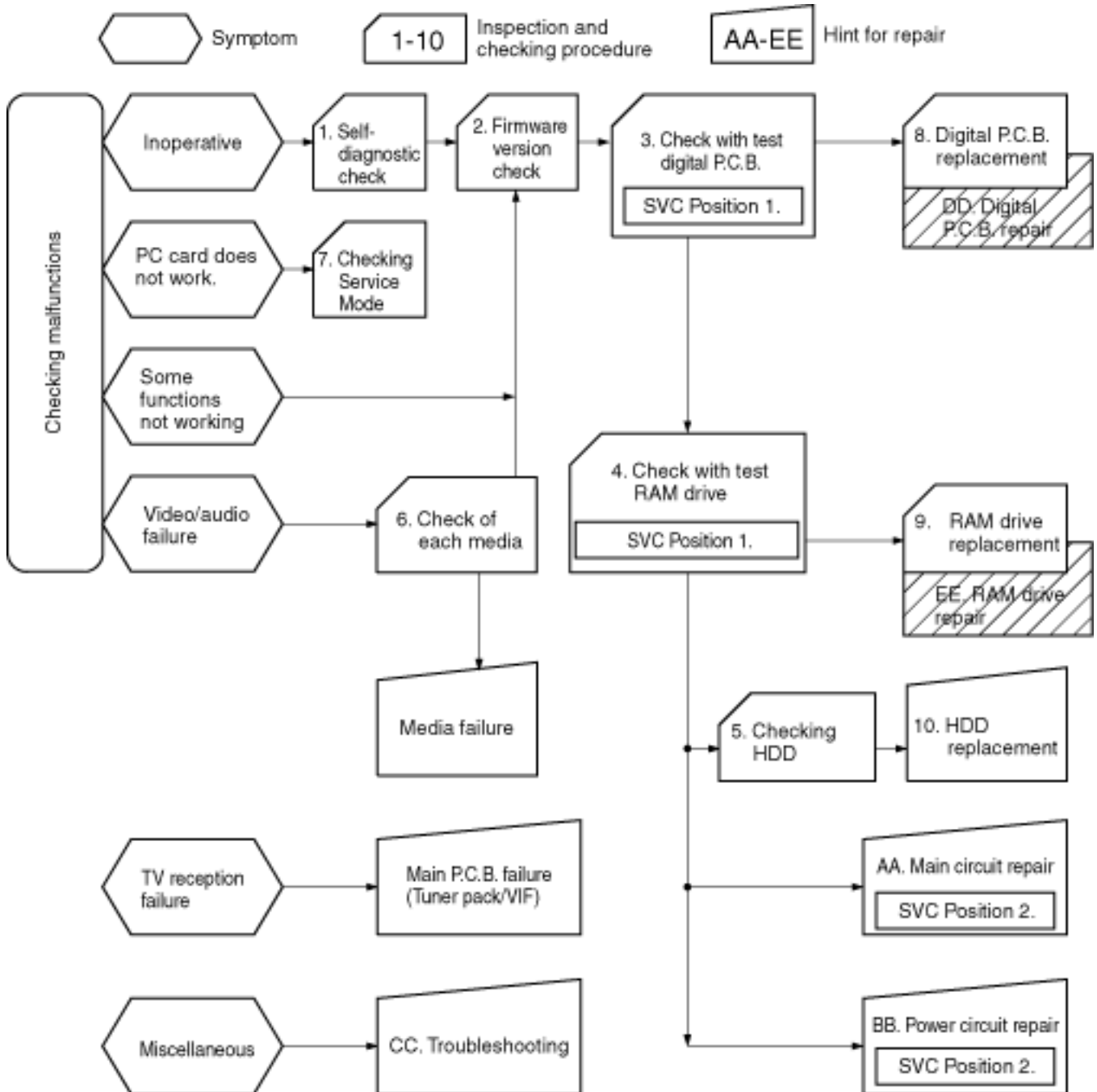
[TOP](#) [PREVIOUS](#) [NEXT](#)

11.1 Flow chart

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See 11.2 for details of inspection and checking procedures 1 to 10 appearing in the chart below.

See 11.3 for details of hints for repairs AA to EE appearing in the chart below.



Note 1 : After the display is shifted to the SVC mode and the mode is closed, the timer display might show 「— — : — —」.

In such a case, carry out the following operation to have the normal timer display indicated.

Set the items of the "installation" of the "initial setting" and the "auto clock channel" of the "time setting" to auto.

Note 2 : When pressing the keys simultaneously, hold them for 5 to 10 seconds.

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11.2 Inspection and checking procedures

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1. Checking self-diagnosis function

1. Presence of error code on display (Serviceable on user site)

Display	Cause	Countermeasure	Judgment
U11	Stained or damaged disc Incompatible disc	Load another disc.	<NG> Drive failure, or digital P.C.B. (RTSC circuit) failure <OK> Disc failure
U12	Remote control and main unit code are not matched.	Switch the setting by "remote control mode" in initial setting.	
U14	Inner temperature is abnormally high.	The unit cannot be operated for approx. 30 minutes. Normal operation is restored when temperature comes down.	a. Check whether cooling fan is blocked or not. b. Room temperature is abnormally high.
U99	System stack	Turn off main unit power, and then turn it on again. If there is no change, keep pressing the power switch for 10 seconds.	

2. Checking other error codes

<Procedure>

A. Enter the service mode.

- While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.

B. View the error code.

- Set [DVD/TV] switch on remote control to DVD.
- Press the channel key [0] [1] on remote control. (Error code is kept displayed until pressing any key.)

C. Meanings

Display	Cause	Countermeasure	Judgment
---------	-------	----------------	----------

H01	Stationary fan motor	Power check	----
		Mother P.C.B. check	
F00	No error information (Initial setting)	---	No error could be detected with self-diagnosis function.
F01	Drive hardware error	Replacement of drive unit	
F12	Communication error between timer processor (main P.C.B.) and main processor (digital P.C.B.)	Go to the inspection and checking procedure 3.	

3. Exit the service mode.

- Turn off the power with remote control power switch.

2. Checking firmware version

1. Firmware is subject to regular updating for performance enhancement.

Check if the symptom at user can be solved with firmware updating. If yes, update the firmware.

<Firmware version check procedure>

A. Enter the service mode.

- While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously. “SERVICE MODE” will be displayed on FIP.

B. Check firmware version on FL display.

- Set [DVD/TV] switch on remote controller to DVD.
- Press the channel key [0] [2] on remote controller. (If you want the display reappear, press the key [5] again.)

FL display	Countermeasure
Region (*)	Unable to modify
MAIN xxx	Modify with updating disc if necessary.
TIMER xxx	Unable to modify (IC must be replaced to make modification.)
DRIVE xxx	Modify with updating disc if necessary.
ROM xxx	Unable to modify

(*): Region Number E30EB/EB1/EG/EG1: 2 E30GN: 4* Firmware is

automatically updated when CD-R firmware disc is loaded.

3. Digital P.C.B. check

1. If operation becomes normal after replacement with test P.C.B., it means digital P.C.B. failure.
2. If operation does not become normal after replacement with test P.C.B., follow the next step.

4. RAM Drive unit check

1. If operation becomes normal after replacement with test RAM drive unit, it means drive unit failure.
2. If operation does not become normal after replacement, it means mother P.C.B. failure.

5. Checking HDD

1. Replace the test HDD unit. If the operation becomes normal, HDD is defective.
2. If the operation is not normal even after replacement of the test HDD, Power supply P.C.B. is defective.

6. Check of each media

1. Play DVD video.
2. Record/play of RAM disc from TV channel and L1 input
3. Play music CD.

7. Checking service mode (with PC card)

READ test

1. While the power is off, insert the PC card containing the image into the card slot.
2. Enter the service mode.

[Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]

3. By pressing [7] and [2] keys, the image appears on the monitor screen.

4. If the image does not appear, check the supplied voltage and PC card P.C.B.

WRITE test

1. While the power is off, insert the PC card containing the image into the card slot.
2. Enter the service mode.

[Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]

3. By pressing [7] and [1] keys, the following display appears.



4. If the display does not appear, check the supplied voltage and PC card P.C.B.

Caution:

End of WRITE test the image written into the media is deleted.

8. Digital P.C.B. replacement

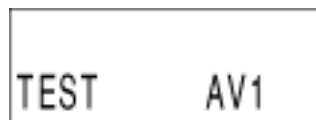
- a. No adjustment is needed.
- b. Check performance of each media.

9. RAM drive replacement

1. When the unit does not operate normally after replacement with a new RAM drive
 - A. While power is off, press Skip(R), [Pause], [Open/Close] keys simultaneously.

(Digital P.C.B. sends out the region code to RAM drive.)

Display



2. Turn off the power after a few seconds, and then turn it on again to resume normal operation.

Caution: In this case, all settings are initialized.

10. HDD replacement

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11.3 Hint for repair

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AA. Main circuit repair

1. Separation of video and audio systems

- Using internal oscillation of video signal (white/magenta signal)

1. Enter the service mode.

[Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]

2. Set [DVD/TV] switch on remote controller to DVD.

3. When [1] [1] key is pressed, digital P.C.B. produces white picture and chroma 100% signal output.

4. When [1] [2] key is pressed, digital P.C.B. produces magenta/chroma 100% signal output.

- Using internal oscillation of audio signal

1. Enter the service mode.

[Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]

When [4] [8] key is pressed, digital P.C.B. produces 1kHz±0dB (AC3/5.1ch sine wave) signal.

- Using video select with AV4 input.

1. Enter the service mode.

[Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]

2. Set [DVD/TV] switch on remote controller to DVD.

3. Input Video signal to AV4 in.

4. When the channel key [8][0] is pressed, video signal should output on AV1 (RGB).

- Using video select with AV2 input

1. Enter the service mode.

[Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]

2. Set [DVD/TV] switch on remote controller to DVD.

3. Input Video signal (Video, Y/C and RGB) to AV2 in.

4. When the channel key [8][1] is pressed, video signal should output on AV1 (Video).

5. When the channel key [8][2] is pressed, video signal should output on AV1 (Y/C).

6. When the channel key [8][3] is pressed, video signal should output on AV1 (RGB).

- Using P50 (Q-Link) control

1. Enter the service mode.

[Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]

2. Set [DVD/TV] switch on remote controller to DVD.

3. When the channel key [8][4] is pressed, 10pin of AV1 will be about 5V.

4. When the channel key [8][5] is pressed, 10pin of AV1 will be about 0V.

2. Separation of REC, PLAY and EE systems

- Check PLAY system and REC system circuits in EE2 mode.

(EE2 mode: L1 input signal passes the same circuit as REC system and PLAY system except for RAM drive.)

1. Enter the service mode.

[Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]

2. Set [DVD/TV] switch on remote controller to DVD.

3. When the channel key [1] [3] is pressed, the unit enters REC/PLAY system in XP mode.

3. When unit is inoperative

Checking timer microprocessor circuit

When timer microprocessor was replaced, the following level meter adjustment is required and “Resorting Factory Setting” is required.

<Adjustment procedure>

1. Give 1Khz/-6dBV input to "L", "R" and audio input terminals of AV1.

2. Enter the service mode.

[While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]

3. Set [DVD/TV] switch on remote controller to DVD, and press the channel key [8] [9].

4. [ADJUST] and [MTR] displays appear, and the adjustment is done automatically.

5. End the adjustment by turning the power off.

4. Display tube partly not illuminated

1. Enter the service mode.

[Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]

2. Set [DVD/TV] switch on remote controller to DVD, and press the channel key [5] [1].

3. All segment LEDs light up.

4. If all light up, display tube and LED are normal.

5. Turn the power off, or press the channel key [0] [0].

Last procedure

a. Resorting factory setting

When timer memory or digital P.C.B. is replaced, the data in each memory is altered.

In this case, restore the factory setting after repair.

1. Enter the service mode.

[Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]

2. Set [DVD/TV] switch on remote controller to DVD, and press the channel key [9] [9].

3. Turn the power off, or press the channel key [0] [0].

b. Aging

After the repair with unstable factors, perform aging.

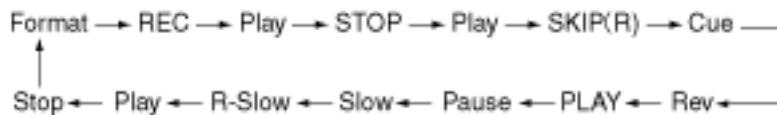
Use the following service mode for aging.

1. Load on the tray a RAM disc that has at least one program recorded.

2. Set at LP or EP in REC mode.

3. Press [Pause], [Open/Close] and [CH Down] keys simultaneously for about 15 seconds.

4. Sequential operation. (endless)



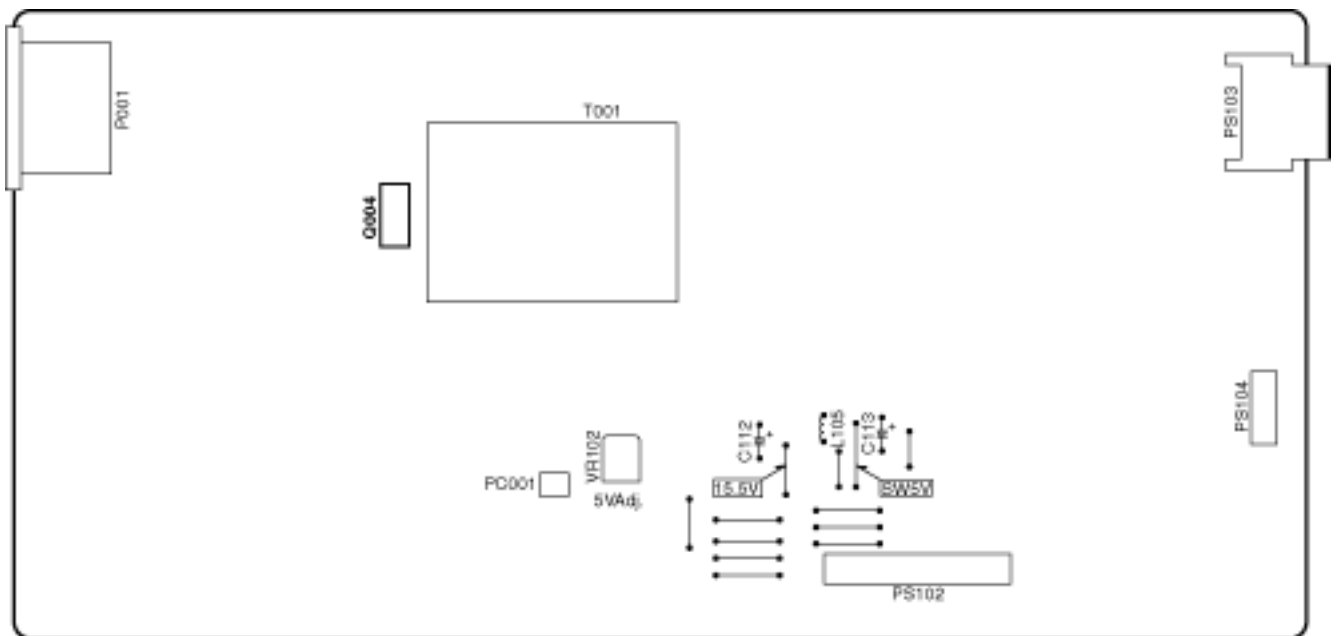
5. Turn off power stop.

BB. Power circuit repair

Adjustment Procedures

1. When the T001, the Q004 or the DI04 is replaced, adjust the "SW 5V measuring point" in the VR102 to the value between 5.12 and 5.15 V.

Condition: The BS power supply should be turned on at the initial setting.



CC. Troubleshooting

1. When viewer restriction ID is forgotten.

While the tray is open, press [Skip(R)] and [Skip(L)] keys simultaneously.

2. When shop demo lock remains on.

While the unit is in stop, press [Stop] and [Power] keys simultaneously.

3. In the case of deck stack.

Keep pressing the power switch for about 10 seconds.

DD. Digital P.C.B. repair

1. Refer to operation instruction for Serial card.

EE. RAM drive repair

1. Refer to service manual for VXY1748.

Caution:

RGB P.C.B. have some variable resistor & capacitor.

However, do not touch these VR & VC.

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11.4 Special modes at a glance






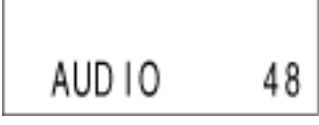

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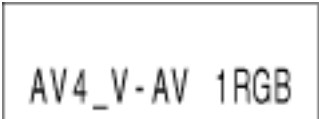

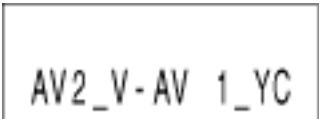




(1) Mode list


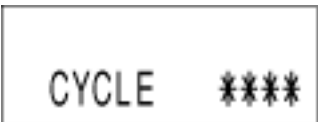
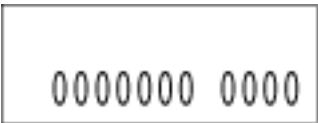

To reset the all items to the initial condition in the service mode, press the return key.

Item			FL display	Key operation	
Mode	Mode name	Description		Main unit Key	Remote controller key
Service mode	1. Service mode	The mode is used in servicing.	<div style="border: 1px solid black; padding: 5px; display: inline-block;">SERVICE MODE</div>	[PAUSE] + [OPEN/CLOSE] + [STOP] while power is off	-
	2. Clear item	Items 1-28 are cleared.	<div style="border: 1px solid black; padding: 5px; display: inline-block;">SERVICE MODE</div>	-	[0] [0] while in service mode
	3. Error code display	FL display of the last error code held by timer	<div style="border: 1px solid black; padding: 5px; display: inline-block;">F00</div> <small>FL display of the error code (UHF)</small>	-	[0] [1] while in service mode
	4. Error code initialization	Initialization of the last error code held by timer (Write in F00)	<div style="border: 1px solid black; padding: 5px; display: inline-block;">ERROR INIT</div>	-	[9] [8] while in service mode
	5. Main unit initialization	All parameters (including timer) are initiaized to the factory setting.	<div style="border: 1px solid black; padding: 5px; display: inline-block;">FACT INIT</div>	-	[9] [9] while in service mode



6. ROM version display	Region code, main, timer and drive firmware versions are displayed on screen and FL tube.	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">REGION*</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">MAIN *****</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">TIMER *****</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">DRIVE * ***</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">ROM *****</div> <p style="text-align: center;">* Version display</p>	-	[0] [2] while in service mode
7. Illumination of all FL/LEDs	All FL and LEDs are lit up.	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;">Illumination of all FL/LED's</div>	-	[5] [1] while in service mode
8. RTSC return XP (A&V)	Disc recording of L1 input Encoded and decoded for external output without playback. REC mode is XP.	Initialization mode (EE2/ Interlace/ XP/ Audio 48kHz) <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;">EE2 XP 48</div>	-	[1] [3] while in service mode
		Audio 44.1kHz/ 48kHz switch <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;">EE2 XP 44</div>	-	[2] [4] while in RTSC return XP mode *48k← →44.1k Toggle switched.
Service mode	9. Audio Mute (XTMUTE)	To check if XTMUTE (mute from timer) works normally	-	[2] [1] while in service mode
	10. Audio Mute (XDMUTE)	XDMUTE To check if XDMUTE (mute from main) works normally	-	[2] [2] while in service mode
		<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;">TIMER MUTE</div>		
		<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;">MAIN MUTE</div>		




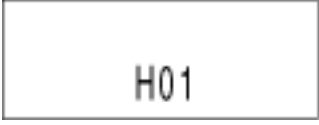



11. PB8 HIGH signal output	8 pin of RGB output is high		-	[5] [2] while in service mode
12. PB8 MIDDLE signal output	8 pin of RGB output is middle		-	[5] [3] while in service mode
13. Laser use time display	To check laser use time of drive		-	[4] [1] while in service mode
14. White picture output	White picture output from AV decoder	Initialization mode (Interlace) 	-	[1] [1] while in service mode
15. Magenta picture output	Magenta picture output from AV decoder	Initialization mode (Interlace) 	-	[1] [2] while in service mode
16. Audio pattern output	Audio pattern output of internal memory 1KHz ± 0dB (AC3 5.1ch sine wave)	Initialization (Audio 48kHz) 	-	[2] [3] while in service mode
		Audio 44.1kHz/ 48kHz switched 	-	[2] [4] while in Audio pattern output mode *48k←→44k Toggle switched.

17. FACTORY MODE1	Region setting is done for the drive at its replacement by starting up the process mode 1. Turn the power off (POWER key on main unit or remote controller) to end the FACT MODE1.		[SKIP(R)] + [PAUSE] + [OPEN/CLOSE] while power is off	-	
18. AV4-AV1 (RGB) SELECT	Video signal at AV4 should output with AV1.		-	[8] [0] while in service mode	
19. AV2-AV1 (VIDEO)	Video signal at AV2 should output with AV1.		-	[8] [1] while in service mode	
20. AV2-AV1 (Y/C)	Video signal at AV2 should output with AV1.		-	[8] [2] while in service mode	
Service mode	21. AV2-AV1 (RGB)	Video signal at AV2 should output with AV1.		-	[8] [3] while in service mode
	22. P50 (High)	10pin of AV1 should be High (5V)		-	[8] [4] while in service mode
	23. P50 (Low)	10pin of AV1 should be Low (0V)		-	[8] [5] while in service mode
	24. PC card READ check	Check READ function using the media with image and PC card. * Image in the media appears.		-	Insert PC card, and press [7] and [2] keys in the service mode.

25. PC card WRITE check	Check WRITE function using the media and PC card.	 <p>Caution:</p> <p>The image written into the media is deleted.</p>	-	Insert PC card, and press [7] and [1] keys in the service mode.
26. Tray OPEN/CLOSE	The RAM drive tray is opened and closed repeatedly.	 <p>※FL display of the CYCLE count out.</p>	-	[9] [1] while in service mode *AC power should be turned off to release this operation.
27. RAM drive last error	Error codes for the RAM drive are displayed.		-	[4] [2] while in service mode
28. Level Meter adjustment	To adjust level meter		-	[8] [9] while in service mode

(2) U/H/F display

Display	Diagnosis	Description	FL display	Screen display
U11	Media error	Display appears: a. When stained or damaged disc is detected b. When authentication process error is returned in FS and RTSC c. When incompatible disc is detected	 <p>a. Displayed for 5 seconds unless the unit is in TIMER REC mode b. Display continues when the unit is in TIMER REC mode (until user presses power and open/close key)</p>	-----
		Display appears when broken disc information is detected.	 <p>a. After displaying above for 5 seconds, power is turned off. b. When power is turned on next time, U11 is displayed for 5 seconds after READ display.</p>	-----

1 CHK REMOTE	Remote control mode error	Display appears when main unit and remote controller modes are not matched.		----
U14	Abnormal inner temperature detected	Display appears when the drive temperature exceeds 71°C. Main unit is powered off forcibly. For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speed for the first 5 minutes. For the remaining 25 minutes, fan motor is also stopped.) The event is saved in memory as well.	 Displayed from the time of detection and while key entries are disabled after power-off (30 minutes).	----
U99	Hang-up	Displayed when microprocessor has hang-up.	 Remains displayed.	----
H01	Inoperative fan motor	Display appears when inoperative fan motor is detected after powered on.	 Remains displayed.	----
F00	No error information	Initial setting for error code in memory (Initialization is possible with error code initialization and main unit initialization.)	 Remains displayed.	----
F01	Drive hardware error	Display appears when drive unit error is detected. The event is saved in memory.	 Remains displayed.	----
F12	Initialization error when main microprocessor is started up for program recording	Display appears when initialization error is detected after starting up main microprocessor for program recording. The event is saved in memory.	 Remains displayed.	----

12 Abbreviations

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INITIAL/LOGO		ABBREVIATIONS
A	A0~UP ACLK AD0~UP ADATA ALE AMUTE AREQ ARF ASI ASO ASync	ADDRESS AUDIO CLOCK ADDRESS BUS AUDIO PES PACKET DATA ADDRESS LATCH ENABLE AUDIO MUTE AUDIO PES PACKET REQUEST AUDIO RF SERVO AMP INVERTED INPUT SERVO AMP OUTPUT AUDIO WORD DISTINCTION SYNC
B	BCK BCKIN BDO BLKCK BOTTOM BYP BYTCK	BIT CLOCK (PCM) BIT CLOCK INPUT BLACK DROP OUT SUB CODE BLOCK CLOCK CAP. FOR BOTTOM HOLD BYPATH BYTE CLOCK
C	CAV CBDO CD CDSCK CDSRDATA CDRF CDV CHNDATA CKSL CLV COFTR CPA CPCS CPDT CPUADR CPUADT CPUIRQ CPRD CPWR CS CSyncIN CSyncOUT	CONSTANT ANGULAR VELOCITY CAP. BLACK DROP OUT COMPACT DISC CD SERIAL DATA CLOCK CD SERIAL DATA CD RF (EFM) SIGNAL COMPACT DISC-VIDEO CHANNEL DATA SYSTEM CLOCKSELECT CONSTANT LINEAR VELOCITY CAP. OFF TRACK CPU ADDRESS CPU CHIP SELECT CPU DATA CPU ADDRESS LATCH CPU ADDRESS DATA BUS CPU INTERRUPT REQUEST CPU READ ENABLE CPU WRITE ENABLE CHIPSELECT COMPOSITE SYNC IN COMPOSITE SYNC OUT

D	DACCK DEEMP DEMPH DIG0~UP DIN DMSRCK DMUTE DO DOUT0~UP DRF DRPOUT DREQ DRESP DSC DSLFB DVD	D/A CONVERTER CLOCK DEEMPHASIS BIT ON/OFF DEEMPHASIS SWITCHING FL DIGIT OUTPUT DATA INPUT DM SERIAL DATA READ CLOCK DIGITAL MUTE CONTROL DROP OUT DATAOUTPUT DATA SLICE RF (BIAS) DROP OUT SIGNAL DATA REQUEST DATA RESPONSE DIGITAL SERVO CONTROLLER DATA SLICE LOOP FILTER DIGITAL VIDEO DISC
---	---	--

INITIAL/LOGO		ABBREVIATIONS
E	EC ECR ENCSEL ETMCLK ETSCLK	ERROR TORQUE CONTROL ERROR TORQUE CONTROL REFERENCE ENCODER SELECT EXTERNAL M CLOCK (81MHz/40.5MHz) EXTERNAL S CLOCK (54MHz)
F	FBAL FCLK FE FFI FEO FG FSC FSCK	FOCUS BALANCE FRAME CLOCK FOCUS ERROR FOCUS ERROR AMP INVERTED INPUT FOCUS ERROR AMP OUTPUT FREQUENCY GENERATOR FREQUENCY SUB CARRIER FS (384 OVER SAMPLING) CLOCK
G	GND	COMMON GROUNDING (EARTH)
H	HA0~UP HD0~UP HINT HRXW	HOST ADDRESS HOST DATA HOST INTERRUPT HOST READ/WRITE
I	IECOUT IPFRAG IREF ISEL	IEC958 FORMAT DATA OUTPUT INTERPOLATION FLAG I (CURRENT) REFERENCE INTERFACE MODE SELECT
L	LDON LPC LRCK	LASER DIODE CONTROL LASER POWER CONTROL L CH/R CH DISTINCTION CLOCK
M	MA0~UP MCK MCKI MCLK MDATA MDQ0~UP MDQM MLD MPEG	MEMORY ADDRESS MEMORY CLOCK MEMORY CLOCK INPUT MEMORY SERIAL COMMAND CLOCK MEMORY SERIAL COMMAND DATA MEMORY DATA INPUT/OUTPUT MEMORY DATA I/O MASK MEMORYSERIAL COMMAND LOAD MOVING PICTURE EXPERTS GROUP

O	ODC OFTR OSCI OSCO OSD	OPTICAL DISC CONTROLLER OFF TRACKING OSCILLATOR INPUT OSCILLATOR OUTPUT ON SCREEN DISPLAY
P	P1~UP PCD PCK PDVD PEAK PLLCLK PLLOK PWMCTL PWMDA PWMOA, B	PORT CD TRACKING PHASE DIFFERENCE PLL CLOCK DVD TRACKING PHASE DIFFERENCE CAP. FOR PEAK HOLD CHANNEL PLL CLOCK PLL LOCK PWM OUTPUT CONTROL PULSE WAVE MOTOR DRIVEA PULSE WAVE MOTOR OUT A, B

INITIAL/LOGO		ABBREVIATIONS
R	RE RFENV RFO RS RSEL RST RSV	READ ENABLE RF ENVELOPE RF PHASE DIFFERENCE OUTPUT (CD-ROM) REGISTER SELECT RF POLARITY SELECT RESET RESERVE
S	SBI0, 1 SBO0 SBT0, 1 SCK SCKR SCL SCLK SDA SEG0~UP SELCLK SEN SIN1, 2 SOUT1, 2 SPDI SPDO SPEN SPRCLK SPWCLK SQCK SQCX SRDATA SRMADR SRMDT0~7 SS STAT STCLK STD0~UP STENABLE STSEL STVALID SUBC SBCK SUBQ SYSCLK	SERIAL DATA INPUT SERIAL DATA OUTPUT SERIAL CLOCK SERIAL DATA CLOCK AUDIO SERIAL CLOCK RECEIVER SERIAL CLOCK SERIAL CLOCK SERIAL DATA FL SEGMENT OUTPUT SELECTCLOCK SERIAL PORT ENABLE SERIAL DATA IN SERIAL DATA OUT SERIAL PORT DATA INPUT SERIAL PORT DATA OUTPUT SERIAL PORT R/W ENABLE SERIAL PORT READ CLOCK SERIAL PORT WRITE CLOCK SUB CODE Q CLOCK SUBCODE Q DATA READ CLOCK SERIAL DATA SRAM ADDRESS BUS SRAM DATA BUS 0~7 START/STOP STATUS STREAM DATA CLOCK STREAM DATA STREAM DATA INPUT ENABLE STREAM DATA POLARITY SELECT STREAM DATAVALIDITY SUB CODE SERIAL SUB CODE CLOCK SUB CODE Q DATA SYSTEM CLOCK

T	TE	TRACKING ERROR
	TIBAL	BALANCE CONTROL
	TID	BALANCE OUTPUT 1
	TIN	BALANCE INPUT
	TIP	BALANCE INPUT
	TIS	BALANCE OUTPUT 2
	TPSN	OP AMP INPUT
	TPSO	OP AMP OUTPUT
	TPSP	OP AMP INVERTED INPUT
	TRCRS	TRACK CROSSIGNAL
	TRON	TRACKING ON
	TRSON	TRAVERSE SERVO ON

INITIAL/LOGO		ABBREVIATIONS
V	VBLANK VCC VCDCONT VDD VFB VREF VSS	V BLANKING COLLECTOR POWER SUPPLY VOLTAGE VIDEO CD CONTROL (TRACKING BALANCE) DRAIN POWER SUPPLY VOLTAGE VIDEO FEED BACK VOLTAGE REFERENCE SOURCE POWER SUPPLYVOLTAGE
W	WAIT WDCK WEH WSR	BUS CYCLE WAIT WORD CLOCK WRITE ENABLE HIGH WORD SELECT RECEIVER
X	X XALE XAREQ XCDROM XCS XCSYNC XDS XHSYNCO XHINT XI XINT XMW XO XRE XSRMCE XSRMOE XSRMWE XVCS XVDS XVSYNCO	X' TAL X ADDRESS LATCH ENABLE X AUDIO DATA REQUEST X CD ROM CHIP SELECT X CHIP SELECT X COMPOSITE SYNC X DATA STROBE X HORIZONTAL SYNC OUTPUT XH INTERRUPTREQUEST X' TAL OSCILLATOR INPUT X INTERRUPT X MEMORY WRITE ENABLE X' TAL OSCILLATOR OUTPUT X READ ENABLE X SRAM CHIP ENABLE X SRAM OUTPUT ENABLE X SRAM WRITE ENABLE X V-DEC CHIPSELECT X V-DEC CONTROL BUS STROBE X VERTICAL SYNC OUTPUT

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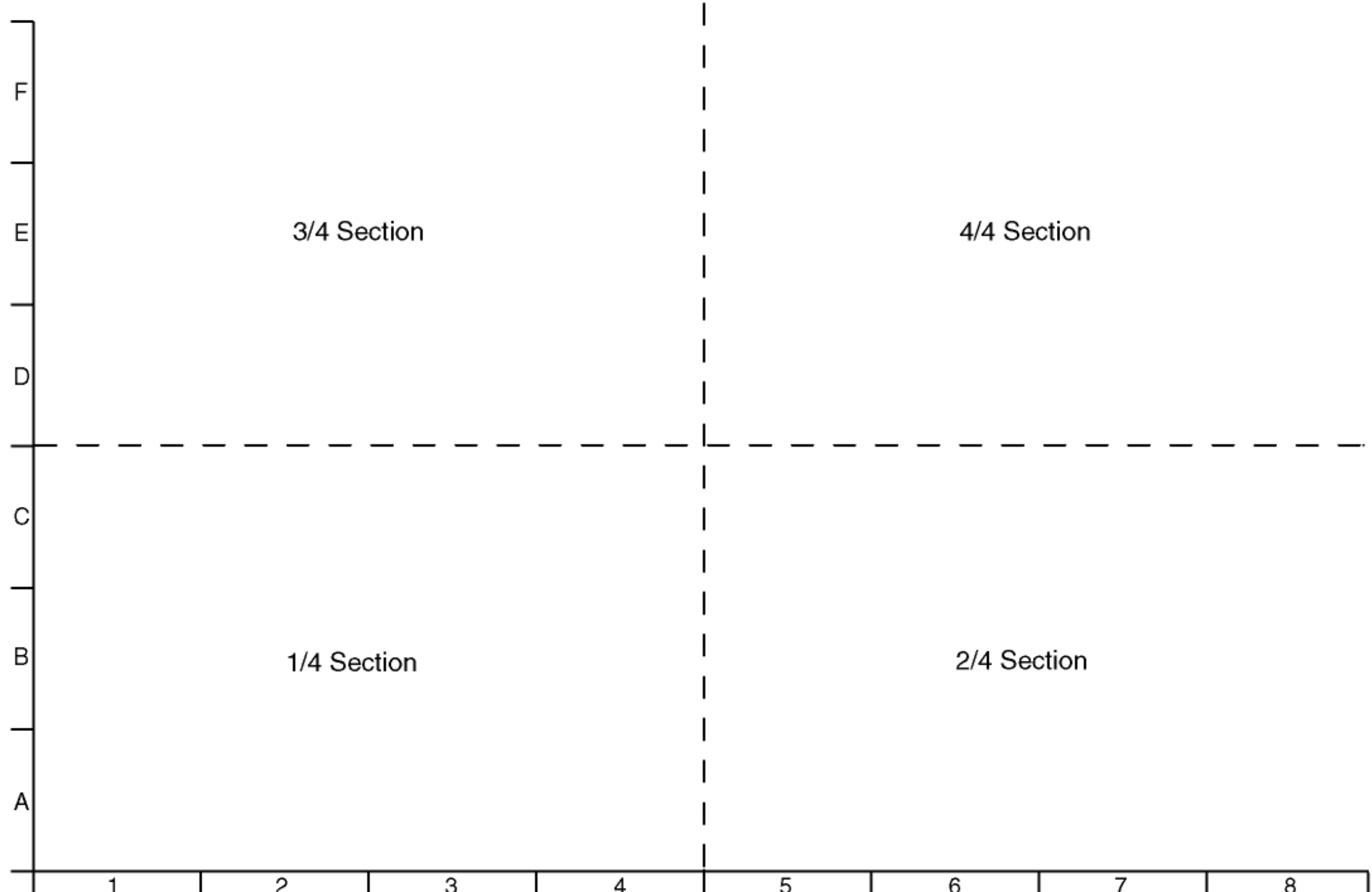
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17.2 Casing Parts& Mechanism Section 2

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17.3 Packing & Accessories Section

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18 REPLACEMENT PARTS LIST

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Notes:

*Important safety notice:

Components identified by  mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

*When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.

*Warning: This product uses a laser diode. Refer to caution statements.

*ACHTUNG: Die lasereinheit nicht zerlegen. Die lasereinheit darf nur gegen enic vom hersteller spezifizierte einheit ausgetauscht werden.

*Capacity values are in microfarads (•F) unless specified otherwise, P=Pico-farads (pF), F=Farads (F).




*Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM).

*The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.





**“<IA>”, “<IB>”, marks in Remarks indicate languages of instruction manuals. [<IA>: English, <IB>: English/ Spanish, <IC>:German/ Italian, <ID>: French/ Netherlands]

*All parts are supplied by S.P.C..

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	RKM0467-S	TOP COVER	1	
2	SNE2129-4	SCREW	4	
3	VHD0690	SCREW	12	
4	ETXMM387E4F	POWER SUPPLY P.C.B.	1	(RTL)
5	REP2577C	MAIN P.C.B.	1	(RTL)(EG)(GN)

5	REP2577D	MAIN P.C.B.	1	(RTL)(EB)
<u>5-1</u>	VEP07A23S	VIF DECODER P.C.B.	1	(RTL)(EG)(GN)
5-1	VEP07A23T	VIF DECODER P.C.B.	1	(RTL)(EB)
<u>5-1-1</u>	VMP5897	VIF ANGLE	1	
<u>5-2</u>	VEP07A51A	DECODER P.C.B.	1	
<u>6</u>	REP3391AC	DIGITAL P.C.B.	1	(RTL)(EG)
6	REP3391AE	DIGITAL P.C.B.	1	(RTL)(GN)
6	REP3391CE	DIGITAL P.C.B.	1	(RTL)(EB)
<u>8</u>	VEK9825	FFC(40P)	1	
<u>9</u>	N3CBBRB00012	HARD DISK DRIVE ASS'Y	1	
<u>10</u>	REP3369AA	PC CARD P.C.B.	1	(RTL)
<u>11</u>	VXA7512	PC CARD ANGLE	1	
12	XYN2+F6	SCREW	2	
<u>13</u>	RSC0673	HDD BARRIER	1	
<u>14</u>	RMR1481-K	PC CARD HOLDER	1	
<u>15</u>	VEK9904	WIRE WITH CONNECTOR(5P)	1	
<u>16</u>	REP3369AB	ATAPI P.C.B.	1	(RTL)
<u>17</u>	REP2578A	SCART P.C.B.	1	(RTL)
<u>18</u>	REP2579A	RGB P.C.B.	1	(RTL)
<u>19</u>	VEK9912	WIRE WITH CONNECTOR(4P)	1	
<u>20</u>	VEK9913	WIRE WITH CONNECTOR(4P)	1	
<u>21</u>	VEK9893	FFC(40P)	1	
<u>22</u>	VEK9903	FFC(50P)	1	
<u>23</u>	RMV0245	BARRIER	1	
<u>24</u>	L6FALECE0002	FAN MOTOR	1	
<u>25</u>	RGR0328C-C	REAR PANEL	1	(EG) 
25	RGR0328C-D	REAR PANEL	1	(EB) 
25	RGR0328C-H	REAR PANEL	1	(GN) 
<u>26</u>	RMN0203	PCB HOLDER	2	
<u>27</u>	RMN0712	FAN COVER	1	
<u>28</u>	RYQ0402-K	LEG	2	
<u>29</u>	RKA0144-K	FOOT RUBBER	2	
30	XSN3+4FZ	SCREW	1	
31	XTN3+35JFZ	SCREW	2	
32	XTN3+6F-C	SCREW	13	

33	XTV3+25J	SCREW	4	
34	RMA1565	HDD ANGLE	1	
35	XSN6-32+48FY	SCREW	4	
36	RMA1589	PC CARD ANGLE	1	
37	RYP1142B-S	FRONT PANEL ASS'Y2	1	(EG)
37	RYP1142C-S	FRONT PANEL ASS'Y2	1	(EB)
37	RYP1142D-S	FRONT PANEL ASS'Y2	1	(GN)
37-1	RGP0933-S	FRONT PANEL	1	
37-2	RYQ0389A-S	POWER BUTTON ASS'Y	1	
37-3	RGU2139-S	OPEN BUTTON	1	
37-4	RGU2108-S	SKIP BUTTON	1	
37-5	RGU2111-Q	SIDE PIECE(R)	1	
37-6	RGU2112-Q	SIDE PIECE(L)	1	
37-7	RGU2113-Q	CENTER PIECE(R)	1	
37-8	RGU2114-S	CENTER PIECE(L)	1	
37-9	RGU2115A-Q	CENTER PIECE(L) TOP	1	
37-10	RMR1455-S	SHAFT HOLDER	1	
37-11	RKF0643F-S	DOOR(R)	1	(EG)
37-11	RKF0643G-S	DOOR(R)	1	(EB)
37-11	RKF0643J-S	DOOR(R)	1	(GN)
37-12	RKF0644C-S	DOOR(L)	1	
37-13	RKF0645-S	TRAY DOOR	1	
37-14	VMB3410	BLINDER SPRING	1	
37-15	RMC0489	DOOR SPRING	2	
37-16	XTBS26+8J	SCREW	2	
38	RKF0648-S	PC CARD BLINDER	1	
39	RMB0721	PC CARD BLINDER SPRING	1	
40	RGZ0052-Q	NAVI RING	1	
41	RGK1541-Q	FL ORNAMENT	1	
42	RSC0674	TUNER BARRIER	1	
43	RGK1528-S	TRAY ORNAMENT	1	
44	RGK1527A-S	FRONT ORNAMANT	1	
45	RGU2116-Q	HDD BUTTON	1	
46	RGU2117-Q	DVD BUTTON	1	
47	REP3386AC	STICK P.C.B.	1	(RTL)
48	VWJ1577	FFC(6P)	1	

49	RGK1530-S	NAVI BUTTON	1	
50	XTBS26+8J	SCREW	9	
51	RYQ0390A-S	CH BUTTON ASS'Y	1	
52	REP3386FA	FRONT(L) P.C.B.	1	(RTL)
53	REP3386BB	FRONT(R) P.C.B.	1	(RTL)
54	RMC0501	EARTH PLATE (A)	1	
55	XQN16+B4FN	SCREW	1	
56	RGL0600-Q	PANEL LIGHT	2	
57	REP3369AC	DV JACK P.C.B.	1	(RTL)
58	RMC0521	EARTH PLATE	1	
59	RMC0520	DV EARTH	1	
63	RMZ0660	BARRIER	1	
64	RGL0599-Q	POWER INDICATOR	1	
65	RMC0491	EARTH SPRING	1	
A1	EUR7615KE0	REMOTE CONTROL ASS'Y	1	(EB)
A1	EUR7615KD0	REMOTE CONTROL ASS'Y	1	(EG)
A1	EUR7615KL0	REMOTE CONTROL ASS'Y	1	(GN)
A2	VJA0788	A/V CORD	1	K1EA06CA0002
A3	RJA0053-3X	AC CORD	1	(EB) 
A3	VJA0754	AC CORD	1	K2CJ2DA00002 (GN) 
A3	VJA1059	AC CORD	1	K2CQ2DA00001 (EG) 
A4	VJA1089	RF COAXIAL CABLE	1	K1TWACC00001
A5	RPQF0238	ACCESSORY CASE	1	
A6	RQT6597-B	OPERATING INSTRUCTIONS	1	(EB)<IA> 
A6	RQT6598-E	OPERATING INSTRUCTIONS	1	(EG)(GN)<IB> 
A6	RQT6599-D	OPERATING INSTRUCTIONS	1	(EG)<IC> 
A6	RQT6600-J	OPERATING INSTRUCTIONS	1	(EG)<ID> 
A7	XZB25X34C03X	POLYETHYLENE BAG	1	
A8	RFE0088-1	CLEANING CLOTH	1	
B9901	CR2354-1GUF	LITHIUM BATTERY	1	
C001	KH101K	250V 100P	1	
C002	KH102M	1000P	1	

C003,04	ECQU2A224ML	275V 0.22	2	
C005,06	KH102M	1000P	2	
C007	KMM2W470JZ	450V 47	1	
C008,09	MBB105K1	16V 1U	2	
C010	MBC102J5	50V 1000P	1	
C012	MBC681J5	50V 680P	1	
C014	CD102M	1000P	1	
C015	MBB103K5	50V 0.01U	1	
C016	MBB224K1	16V 0.22U	1	
C017	YAB105K3	35V 1U	1	
C018	RR3AD102K	1KV 1000P	1	
C020	KY1V330Z	35V 33U	1	
C022	DE2SL470J	2KV 47P	1	
C023	KH101K	250V 100P	1	
C024	KH102M	1000P	1	
C102	KY1A122	10V 1200U	1	
C104	TBB105K1	16V 1U	1	
C105	KY1A681L	10V 680U	1	
C106	KMG1V470	35V 47U	1	
C107	MBC102J5	50V 1000P	1	
C108	KY1E221	25V 220U	1	
C109	KY1E331	25V 330U	1	
C110	MBC102J5	50V 1000P	1	
C111	ECQB1H102JF	50V 1000P	1	
C112	KMG1E470	25V 47U	1	
C113	KMG1C471	10V 470U	1	
C115	MBB104K2	25V 0.1U	1	
C116	ECQB1H333JF	50V 0.033U	1	
C117	MBB104K2	25V 0.1U	1	
C118	KY0J152	6.3V 1500U	1	
C119	KY0J102	6.3V 1000U	1	
C120	KY1A471	10V 470U	1	
C121	KMG1E470	25V 47U	1	
C123	KY1A471	10V 470U	1	
C124	KY1A221	10V 220U	1	
C125	TBB224K2	25V 0.22U	1	
C128	TBB105K1	16V 1U	1	
C129	KMG1V470	35V 47U	1	
C130	MBC101K2D	200V 100P	1	

C301,02	ECJ2VC1H102J	50V 1000P	2	
C303	YBB104K2	25V 0.1U	1	
C304	MBB103K5	50V 0.01U	1	
C305	MBB333K5	50V 0.033U	1	
C306	MBB103K5	50V 0.01U	1	
C307,08	MBB105K1	16V 1U	2	
C309-12	YBB104K2	25V 0.1U	4	
C313,14	MBB105K1	16V 1U	2	
C315,16	YBB104K2	25V 0.1U	2	
C0701	ECJ2VF1C105Z	16V 1U	1	
C0702	ECJ1VB1H102K	50V 1000P	1	
C0703	ECJ2YB1A105K	10V 1U	1	
C0704	ECJ2VB1E333K	25V 0.033U	1	
C0707	ECEA1HKS2R2	50V 2.2U	1	
C0708	ECEA1HKAR47B	50V 47U	1	
C0710	ECJ1VF1H103Z	50V 0.01U	1	
C0711	ECEA1CKS220	16V 22U	1	
C0712	ECJ1VF1C104Z	16V 0.1U	1	
C0713	ECEA0JKS331	6.3V 330U	1	
C0714	ECJ2VF1C105Z	16V 1U	1	
C0715	ECJ1VC1H030C	50V 3P	1	(EG)(GN)
C0715	ECJ1VC1H120J	50V 12P	1	(EB)
C0717	ECUM1H330GU	50V 33U	1	
C0719	ECUV1E104ZFV	25V 0.1U	1	F1H1E104A030
C0721	ECJ1VC1H121J	50V 120P	1	(EG)(GN)
C0721	ECUV1H820JCV	50V 82P	1	ECJ1VC1H820J (EB)
C0724	ECJ1VB1H221K	50V 220P	1	(EG)(GN)
C0724	ECUV1H331KBV	50V 330P	1	ECJ1VB1H331K (EB)
C3001	ECUV1A105KBN	10V 1U	1	F1J1C105A090
C3002	ECEA1HKS010	50V 1U	1	
C3003	ECJ1VB1H103K	50V 0.01U	1	
C3004	ECEA0JKS470	6.3V 47U	1	
C3005	ECJ1VB1C104K	16V 0.1U	1	
C3006	ECEA0JKN470B	6.3V 47U	1	
C3007	ECEA0JKS470	6.3V 47U	1	
C3008	ECJ1VB1H103K	50V 0.01U	1	
C3009	ECUV1A105KBN	10V 1U	1	F1J1C105A090
C3013-16	ECJ1VB1H103K	50V 0.01U	4	
C3017	ECEA0JKS470	6.3V 47U	1	

C3018-20	ECJ1VB1H103K	50V 0.01U	3	
C3021,22	ECEA1CKN100B	16V 10U	2	
C3031	ECEA1CKS100	16V 10U	1	
C3032	ECEA1HKS010	50V 1U	1	
C3033	ECJ1VB1H103K	50V 0.01U	1	
C3034	ECEA1HKS010	50V 1U	1	
C3035	ECUV1A105KBN	10V 1U	1	F1J1C105A090
C3036	ECJ1VB1H103K	50V 0.01U	1	
C3037	ECUV1A105KBN	10V 1U	1	F1J1C105A090
C3038	ECEA1HKS010	50V 1U	1	
C3039	ECJ1VB1H103K	50V 0.01U	1	
C3040	ECUV1A105KBN	10V 1U	1	F1J1C105A090
C3041	ECJ1VB1H103K	50V 0.01U	1	
C3042	ECEA0JKS470	6.3V 47U	1	
C3065	ECJ1VC1H470J	50V 47P	1	
C3066	ECUV1H471JCV	50V 470P	1	ECJ1VC1H471J
C3068	ECJ1VC1H470J	50V 47P	1	
C3069	ECUV1H471JCV	50V 470P	1	ECJ1VC1H471J
C3070	ECJ1VB1H103K	50V 0.01U	1	
C3071	ECJ1VB1C104K	16V 0.1U	1	
C3072	ECJ1VB1C103K	16V 0.01U	1	
C3201	ECJ1VB1H103K	50V 0.01U	1	
C3202	ECST0JC107R	6.3V 100U	1	
C3203	ECJ1VB1C104K	16V 0.1U	1	
C3204	ECJ1VB1H103K	50V 0.01U	1	
C3205	ECJ1VF1C104Z	16V 0.1U	1	
C3208	ECJ1VF1C104Z	16V 0.1U	1	
C3209	ECJ1VB1H103K	50V 0.01U	1	
C3210	EEVHB0J220R	6.3V 22U	1	
C3211	ECJ1VF1C104Z	16V 0.1U	1	
C3212	ECJ1VB1H103K	50V 0.01U	1	
C3213	EEVHB0J220R	6.3V 22U	1	
C3214,15	ECJ1VF1C104Z	16V 0.1U	2	
C3216	ECJ1VB1H103K	50V 0.01U	1	
C3217-26	ECJ1VB1C104K	16V 0.1U	10	
C3227	EEVHB0J101P	6.3V 100U	1	
C3228	ECJ1VC1H151J	50V 150P	1	
C3501-03	ECEA0JKS470	6.3V 47U	3	
C3504	ECJ1VB1H103K	50V 0.01U	1	

C3505-07	ECEA1HKS3R3	50V 3.3U	3	
C3508	ECUV1H271JCV	50V 270P	1	ECJ1VC1H271J
C3509,10	ECJ1VB1C104K	16V 0.1U	2	
C3511	ECJ1VC1H120J	50V 12P	1	
C3512	ECJ1VB1C104K	16V 0.1U	1	
C3513	ECEA0JKN470B	6.3V 47U	1	
C3514,15	ECJ1VB1C104K	16V 0.1U	2	
C3516	ECEA0JKS470	6.3V 47U	1	
C3518	ECEA1HKS010	50V 1U	1	
C3519	ECJ1VB1H103K	50V 0.01U	1	
C3520	ECEA1AKS221	10V 220U	1	
C3521	ECJ1VB1C104K	16V 0.1U	1	
C3523	ECEA0JKS470	6.3V 47U	1	
C3524	ECJ1VB1C104K	16V 0.1U	1	
C3526	ECEA0JKN470B	6.3V 47U	1	
C3528-30	ECJ1VB1H103K	50V 0.01U	3	
C3531	ECEA0JKS470	6.3V 47U	1	
C3532	ECJ1VB1H103K	50V 0.01U	1	
C3533	ECA0JM221B	6.3V 220U	1	
C3534	ECEA1CKS220	16V 22U	1	
C3535	ECA0JM221B	6.3V 220U	1	
C3536	ECEA1CKS220	16V 22U	1	
C3537	ECA0JM221B	6.3V 220U	1	
C3538	ECEA1CKS220	16V 22U	1	
C3543	ECJ1VB1C104K	16V 0.1U	1	
C3544,45	ECEA0JKN470B	6.3V 47U	2	
C3546	ECEA1AKS221	10V 220U	1	
C3547	ECJ1VB1C104K	16V 0.1U	1	
C3548-50	ECEA0JKN470B	6.3V 47U	3	
C3551	ECJ1VB1C104K	16V 0.1U	1	
C3552	ECEA0JKN470B	6.3V 47U	1	
C3553	ECJ1VC1H560J	50V 56P	1	
C3554	ECJ1VB1C104K	16V 0.1U	1	
C3555	ECEA1HSN010	50V 1U	1	
C3556	ECEA0JKS470	6.3V 47U	1	
C3557	ECJ1VB1H103K	50V 0.01U	1	
C3563	ECA0JM102	6.3V 1000U	1	
C3564	ECEA0JKS101	6.3V 100U	1	
C3565	ECJ1VB1C104K	16V 0.1U	1	

C3566	ECJ1VC1H560J	50V 56P	1	
C3567	ECA0JM102	6.3V 1000U	1	
C3568	ECEA0JKS101	6.3V 100U	1	
C3575	ECEA1HKS3R3	50V 3.3U	1	
C3576	ECEA1CKS100	16V 10U	1	
C3578	ECJ1VB1C104K	16V 0.1U	1	
C3910,11	ECA1CAK100XB	16V 10U	2	
C3912-17	ECA1HAK010XI	50V 1U	6	
C3918,19	ECA1CAK100XB	16V 10U	2	
C3920	ECJ1VB1C104K	16V 0.1U	1	
C3921	ECA0JAK331X	6.3V 330U	1	
C3922	ECJ1VB1H103K	50V 0.01U	1	
C3923	ECJ1VB1C104K	16V 0.1U	1	
C3924	ECA0JAK331X	6.3V 330U	1	
C3925	ECJ1VB1H103K	50V 0.01U	1	
C3928,29	ECA1HAK010XI	50V 1U	2	
C3930	ECJ1VB1H103K	50V 0.01U	1	
C3931,32	ECA1HAK010XI	50V 1U	2	
C3933	ECEA1HKS010	50V 1U	1	
C3934	ECJ1VB1H103K	50V 0.01U	1	
C3935	ECA1CAK470XB	16V 47U	1	
C3936,37	ECEA1HSN010	50V 1U	2	
C3938,39	ECJ1VB1H103K	50V 0.01U	2	
C3940	ECA0JAK221XH	6.3V 220U	1	
C3941	ECJ1VB1H103K	50V 0.01U	1	
C3951,52	ECJ1VC1H470J	50V 47P	2	
C3953,54	ECUV1H471JCV	50V 470P	2	ECJ1VC1H471J
C3955,56	ECJ1VC1H101J	50V 100P	2	
C3957,58	ECUV1H471JCV	50V 470P	2	ECJ1VC1H471J
C3959,60	ECJ1VC1H470J	50V 47P	2	
C3961,62	ECJ1VC1H101J	50V 100P	2	
C3963	ECJ1VB1H103K	50V 0.01U	1	
C4001	ECJ1VB1C104K	16V 0.1U	1	
C4004	ECA1CAK470XB	16V 47U	1	
C4005	F2A1C221A243	16V 220U	1	
C4008	ECA0JAK470XH	6.3V 47U	1	
C4010	ECUV1C683KBV	16V 0.068U	1	ECJ1VB1C683K
C4012	ECA1HAK2R2XB	50V 2.2U	1	
C4013,14	F2A1C100A019	16V 10U	2	

C4015	ECJ1VF1C104Z	16V 0.1U	1	
C4017,18	ECEA1CKS100	16V 10U	2	
C4019,20	ECJ1VC1H330J	50V 33P	2	
C4022,23	ECJ1VF1C104Z	16V 0.1U	2	
C4024	ECJ1VB1C104K	16V 0.1U	1	
C4025	F2A1C221A243	16V 220U	1	
C4026	ECJ1VF1C104Z	16V 0.1U	1	
C4027	ECA1HAK2R2XB	50V 2.2U	1	
C4029	ECA1CPX221B	16V 220U	1	
C4030	ECJ1VF1C104Z	16V 0.1U	1	
C4031,32	ECEA1CKN100B	16V 10U	2	
C4033,34	F2A1C4700011	16V 47U	2	
C4037-42	ECA1CAK100XB	16V 10U	6	
C4043	ECJ1VF1C104Z	16V 0.1U	1	
C4044	ECA1CPX221B	16V 220U	1	
C4047,48	ECUV1H102KBN	50V 1000P	2	ECJ2VB1H102K
C4052	ECJ1VF1C104Z	16V 0.1U	1	
C4053	ECJ1VB1C104K	16V 0.1U	1	
C4054	F2A0J470A179	6.3V 47U	1	
C4055	ECJ1VF1C104Z	16V 0.1U	1	
C4056	ECA1CPX221B	16V 220U	1	
C4057	ECJ2VC1H101J	50V 100U	1	
C4058,59	ECJ1VF1C104Z	16V 0.1U	2	
C4060	ECJ2VC1H101J	50V 100U	1	
C4061	ECJ1VF1C104Z	16V 0.1U	1	
C4062	F2A1C221A243	16V 220U	1	
C4063,64	F2A1C4700011	16V 47U	2	
C4065	ECJ1VF1C104Z	16V 0.1U	1	
C4067	F2A0J470A179	6.3V 47U	1	
C4068,69	ECJ1VF1C104Z	16V 0.1U	2	
C4070	F2A1C221A243	16V 220U	1	
C4072	ECA1CAK101XB	16V 100U	1	
C4074	ECJ1VF1C104Z	16V 0.1U	1	
C4076-78	ECJ1VF1C104Z	16V 0.1U	3	
C4079,80	ECJ1VC1H100C	50V 10P	2	
C4082,83	ECUV1H102KBN	50V 1000P	2	ECJ2VB1H102K
C4088	ECUV1C683KBV	16V 0.068U	1	ECJ1VB1C683K
C4089	F2A1C221A243	16V 220U	1	
C4090	ECJ1VB1C104K	16V 0.1U	1	

C4091	ECJ1VF1C104Z	16V 0.1U	1	
C4401	ECJ1VF1C104Z	16V 0.1U	1	
C4403	ECJ1VF1C104Z	16V 0.1U	1	
C4404	F2G0J331A015	6.3V 330U	1	
C4407,08	EEVHB1C100R	16V 10U	2	
C4410	EEVHB0J220R	6.3V 22U	1	
C4411	ECJ1VF1C104Z	16V 0.1U	1	
C4412	EEVHB0J101P	6.3V 100U	1	
C4413	EEVHB1E4R7R	25V 4.7U	1	
C4414	ECST1AY106R	10V 10U	1	
C4415-17	ECJ1VF1C104Z	16V 0.1U	3	
C4420-25	ECJ1VB1H102K	50V 1000P	6	
C4502	ECJ1VF1C104Z	16V 0.1U	1	(EB)
C4503	ECA1CAK470XB	16V 47U	1	(EB)
C4504	ECA1CAK100XB	16V 10U	1	(EB)
C4505	ECJ1VB1H222K	50V 2200P	1	(EB)
C4506	ECA1CAK100XB	16V 10U	1	(EB)
C4507	ECUM1H222KBN	50V 2200P	1	(EB)
C4508	ECA1CAK100XB	16V 10U	1	(EB)
C4509	ECJ1VC1H560J	50V 56P	1	(EB)
C4510,11	ECA1CAK100XB	16V 10U	2	(EB)
C4512	ECEA1CKN100B	16V 10U	1	(EB)
C4513	ECA1HAKR22XB	50V 22U	1	(EB)
C4514	ECJ1VC1H560J	50V 56P	1	(EB)
C4515	ECJ1VC1H102J	50V 1000P	1	(EB)
C6003	ECUV1H010CCV	50V 1P	1	ECJ1VC1H010C
C6004	ECJ1VC1H470J	50V 47P	1	
C6701,02	ECJ1VB1C104K	16V 0.1U	2	
C6703	ECJ1VF1C104Z	16V 0.1U	1	
C6801-03	ECJ1VB1C103K	16V 0.01U	3	
C6804	ECJ1VB1C104K	16V 0.1U	1	
C6805	ECEA0JKS101	6.3V 100U	1	
C6806	ECJ1VB1C104K	16V 0.1U	1	
C6807	ECEA0JKS101	6.3V 100U	1	
C6808,09	ECEA0JKS470	6.3V 47U	2	
C6811	ECJ1VB1C104K	16V 0.1U	1	
C6812	ECJ1VB1C103K	16V 0.01U	1	
C7003	ECJ1VB1C104K	16V 0.1U	1	
C7005,06	ECJ1VC1H101J	50V 100P	2	


C7010	ERJ3GEY0R00V	1/16W 0	1	
C7012	ECJ1VF1A105Z	10V 1U	1	
C7301	ECJ1VF1C104Z	16V 0.1U	1	
C7302	ERJ3GEY0R00V	1/16W 0	1	
C7303	ECEA0JKS101	6.3V 100U	1	
C7305	ECEA0JKS101	6.3V 100U	1	
C7306	ECJ1VF1H103Z	50V 0.01U	1	
C7307,08	ECUV1H100DCV	50V 10U	2	ECJ1VC1H100D
C7309-11	ECJ1VC1H101J	50V 100P	3	
C7312,13	ECEA1CKS100	16V 10U	2	
C7314	ECJ1VF1C104Z	16V 0.1U	1	
C7317	ECEA1CKA470	16V 47U	1	
C7318	ECEA1CKS100	16V 10U	1	
C7323	ECJ1VC1H102J	50V 1000P	1	
C7324	ECJ1VF1C104Z	16V 0.1U	1	
C7329	ERJ3GEY0R00V	1/16W 0	1	
C7330	ERJ3GEYJ822V	1/16W 8.2K	1	D0GB822JA002
C7332	ECJ1VF1C104Z	16V 0.1U	1	
C7333	ECJ1VB1C104K	16V 0.1U	1	
C7334	ECEA1HKS2R2	50V 2.2U	1	
C7335	ECJ1VF1C104Z	16V 0.1U	1	
C7501-09	ECJ1VC1H151J	50V 150P	9	
C7512	ECJ1VF1A105Z	10V 1U	1	
C7513	ECJ1VB1C104K	16V 0.1U	1	
C7515	ECJ1VF1A105Z	10V 1U	1	
C7516	ECJ1VC1H101J	50V 100P	1	
C7517	F2A1V220A174	35V 22U	1	
C7518	ECJ1VB1C104K	16V 0.1U	1	
C7521	F2A1C221A019	16V 220U	1	
C7522	ECJ1VB1C104K	16V 0.1U	1	
C7523	ECQB1H473JF3	50V 0.047U	1	
C7524	ECJ1VB1H103K	50V 0.01U	1	
C7525	F2A0J221A016	6.3V 220U	1	
C7526	VCEA1VCB100	35V 10U	1	F2A1V1000013
C7527	ECQB1H223KF3	50V 0.022U	1	
C7528	F2A1H100A218	50V 10U	1	
C7529	F2A1V220A174	35V 22U	1	
C7531	ECEA1EKN4R7B	25V 4.7U	1	
C7533	ECJ1VC1H101J	50V 100P	1	

C7534	ECEA1EKN4R7B	25V 4.7U	1	
C7535	ECJ1VB1C104K	16V 0.1U	1	
C7536	ECEA0JKS101	6.3V 100U	1	
C7537	ECJ1VF1C104Z	16V 0.1U	1	
C7538	ECJ1VB1C104K	16V 0.1U	1	
C7539	ECUV1H200JCV	50V 20P	1	ECJ1VC1H200J
C7540	ECJ1VC1H151J	50V 150P	1	
C7541	ECJ1VC1H101J	50V 100P	1	
C7543	F2A1A4700016	10V 47U	1	
C7544,45	ECJ1VF1C104Z	16V 0.1U	2	
C7546,47	ECJ1VB1H103K	50V 0.01U	2	
C7548,49	ECJ1VC1H100C	50V 10P	2	
C7551,52	ECUV1H221JCV	50V 220P	2	ECJ1VC1H221J
C7553	ECJ1VC1H101J	50V 100P	1	
C7554	ECJ1VC1H220J	50V 22P	1	
C7555	ECJ1VC1H270J	50V 27P	1	
C7556	ECJ1VC1H150J	50V 15P	1	
C7557	ECJ1VC1H270J	50V 27P	1	
C7558	ECJ1VB1H103K	50V 0.01U	1	
C7559	ECJ1VC1H470J	50V 47P	1	
C7560	ECJ1VB1H103K	50V 0.01U	1	
C7561	ECJ1VC1H470J	50V 47P	1	
C7562	ECJ1VB1C104K	16V 0.1U	1	
C7563	ECJ1VC1H470J	50V 47P	1	
C7564	ECJ1VB1C104K	16V 0.1U	1	
C7565,66	ECJ1VC1H100C	50V 10P	2	
C7567	F2A1A4700016	10V 47U	1	
C7568	ECJ1VB1H103K	50V 0.01U	1	
C7569	ECJ1VB1H102K	50V 1000P	1	
C7570	ECEA1EKS4R7	25V 4.7U	1	
C7571,72	ECEA1CKS100	16V 10U	2	
C7573	ECEA1EKS4R7	25V 4.7U	1	
C7574	ECEA1CKS100	16V 10U	1	
C7575-77	ECJ1VB1H103K	50V 0.01U	3	
C7578,79	ECJ1VC1H101J	50V 100P	2	
C7580	VCEA0JBS101	6.3V 100U	1	F2A0J1010003
C7581	ECJ1VF1C104Z	16V 0.1U	1	
C7582	VCE0073-T	CAPACITOR	1	F4D55473A005
C7583	F2A0J471A016	6.3V 470U	1	

C7584	ECJ1VF1C104Z	16V 0.1U	1	
C7585	ECJ1VB1H103K	50V 0.01U	1	
C7586	ECEA1CKA470	16V 47U	1	
C7587	ECJ1VF1C104Z	16V 0.1U	1	
C7588	ECEA1CKA470	16V 47U	1	
C7589,90	ECJ1VC1H100C	50V 10P	2	
C7593-98	ECJ1VC1H100C	50V 10P	6	
C7599	ECJ1VC1H101J	50V 100P	1	
C7600	ECJ1VF1C104Z	16V 0.1U	1	
C7601	F2A1A4700016	10V 47U	1	
C7603	F2A1A4700016	10V 47U	1	
C7604	ECJ1VB1H103K	50V 0.01U	1	
C7605	VCEA0JBS101	6.3V 100U	1	F2A0J1010003
C7606	ECJ1VF1C104Z	16V 0.1U	1	
C7607	ECJ1VF1H103Z	50V 0.01U	1	
C7608	ECJ1VF1C104Z	16V 0.1U	1	
C7609	ECJ1VB1H103K	50V 0.01U	1	
C7610	ECJ3VB1C104K	16V 0.1U	1	
C7611-13	ECJ1VB1C104K	16V 0.1U	3	
C7701	VCEA0JJC470B	6.3V 47U	1	F2A0J4700003
C7702	ECJ2VB1H103K	50V 0.01U	1	
C7703	ECJ1VB1H103K	50V 0.01U	1	
C7704	VCEA0JJC470B	6.3V 47U	1	F2A0J4700003
C7707,08	ECJ1VC1H330J	50V 33P	2	
C7709	ECJ1VB1C104K	16V 0.1U	1	
C7710	VCEA0JCB470B	6.3V 47U	1	F2A0J470A013
C7711	ECUV1H221JCV	50V 220P	1	ECJ1VC1H221J
C7712	ECJ1VB1C104K	16V 0.1U	1	
C7713	ECEA1HKS010	50V 1U	1	
C7714	VCEA0JCB470B	6.3V 47U	1	F2A0J470A013
C7715	ECJ1VB1C104K	16V 0.1U	1	
C7718	ECJ1VB1H222K	50V 2200P	1	
C7719	VCEA1CJC470B	16V 47U	1	F2A1C4700007
C7720	ECJ1VB1C104K	16V 0.1U	1	
C7721	VCEA1CJC470B	16V 47U	1	F2A1C4700007
C7722	ECJ1VB1H103K	50V 0.01U	1	
C7723	ECA1HAK2R2XB	50V 2.2U	1	
C7724	ECA1CAK100XB	16V 10U	1	
C7725	ECA1HAK2R2XB	50V 2.2U	1	

C7726	ECA1CAK100XB	16V 10U	1	
C7727	ECJ2VF1C104Z	16V 0.1U	1	(EG)(GN)
C7728	ECJ2VB1H332K	50V 3300P	1	(EB)
C7728	ECJ2VF1C104Z	16V 0.1U	1	(EG)(GN)
C7729	ECJ1VB1H102K	50V 1000P	1	
C7730	ECUV1H102KBN	50V 1000P	1	ECJ2VB1H102K
C9001-05	EEVHB0J470R	6.3V 47U	5	
C9007	F2G1C470A015	16V 47U	1	
C9011	EEVHB0J470R	6.3V 47U	1	
C9013	EEVHB0J470R	6.3V 47U	1	
C9016	EEVHB0J470R	6.3V 47U	1	
C9017	ECJ1VF1C104Z	16V 0.1U	1	
C9901	VCEA0JJC470B	6.3V 47U	1	F2A0J4700003
C9902	ECJ1VB1C104K	16V 0.1U	1	
C9903	VCEA0JJC470B	6.3V 47U	1	F2A0J4700003
C9904	ECJ1VB1C104K	16V 0.1U	1	
C9905	F2A1C331A019	16V 330U	1	
C9906,07	F2A0J471A256	6.3V 470U	2	
C9908	F2A1A471A211	10V 470U	1	
C9909	F2A1E221A210	25V 220U	1	
C9910,11	F2A0J471A256	6.3V 470U	2	
C9912	F2A0J470A012	6.3V 47U	1	
C9913,14	ECJ1VB1C104K	16V 0.1U	2	
C9915	VCEA0JJC470B	6.3V 47U	1	F2A0J4700003
C9917	VCEA1CJC470B	16V 47U	1	F2A1C4700007
C9918	VCEA0JCB470B	6.3V 47U	1	F2A0J470A013
C9919,20	ECJ1VB1C104K	16V 0.1U	2	
C9921,22	F2A0J470A012	6.3V 47U	2	
C9923	ECJ1VB1C104K	16V 0.1U	1	
C9924	VCEA0JCB470B	6.3V 47U	1	F2A0J470A013
C9925	F2A0J470A012	6.3V 47U	1	
C9926	ECJ1VB1C104K	16V 0.1U	1	
C9927	VCEA0JJC470B	6.3V 47U	1	F2A0J4700003
C9928	ECJ1VB1C104K	16V 0.1U	1	
C9929	F2A1C221A243	16V 220U	1	
C9930	ECJ1VB1C104K	16V 0.1U	1	
C9931	ECJ1VB1H102K	50V 1000P	1	
C9934	ECJ2VF1C104Z	16V 0.1U	1	
C9935,36	ECUV1H221JCV	50V 220P	2	ECJ1VC1H221J

C9937	ECJ1VF1C104Z	16V 0.1U	1	
C9938	ECUV1H102KBN	50V 1000P	1	ECJ2VB1H102K
C9940-44	ECJ1VB1H103K	50V 0.01U	5	
C9948-53	ECJ1VB1C104K	16V 0.1U	6	
C37001	ECUV1H271JCV	50V 270P	1	ECJ1VC1H271J
C37002,03	ECJ2YB1A105K	10V 1U	2	
C37007,08	ECJ1VC1H120J	50V 12P	2	
C37009	ECJ1VB1C104K	16V 0.1U	1	
C37011	ECJ1VB1C104K	16V 0.1U	1	
C37012	EEVHB0J470R	6.3V 47U	1	
C37013	ECJ1VF1C104Z	16V 0.1U	1	
C37014	ECJ2YB1A105K	10V 1U	1	
C37015	EEVHB0J101P	6.3V 100U	1	
C37025	ECJ1VF1C104Z	16V 0.1U	1	
C37031	ECUV1H180JCV	50V 18P	1	ECJ1VC1H180J
C37032	ECJ1VC1H330J	50V 33P	1	
C37033	ECJ1VF1C104Z	16V 0.1U	1	
C37034	ECJ2YB1A105K	10V 1U	1	
C37035,36	ECJ1VC1H560J	50V 56P	2	
C50007	ECJ1VB1C104K	16V 0.1U	1	
C50008,09	ECJ1VB0J105K	6.3V 1U	2	
C50010	EEVHB0J220R	6.3V 22U	1	
C50012,13	ECJ1VB1C104K	16V 0.1U	2	
C50014	ECJ1VF1C104Z	16V 0.1U	1	
C50015	EEVHB0J220R	6.3V 22U	1	
C50016	ECJ1VF1C104Z	16V 0.1U	1	
C50018	EEVHB0J101P	6.3V 100U	1	
C50025	ECJ1VF1C104Z	16V 0.1U	1	
C50026,27	EEVHB1C100R	16V 10U	2	
C50028	ECJ1VF1C104Z	16V 0.1U	1	
D001	S1WBA60S	DIODE	1	B0KA00000014
D002	MA728	DIODE	1	MA2J728
D006	M1FL20U	DIODE	1	
D007	AP01C	DIODE	1	B0HADV000010
D101,02	RL2ZLF	DIODE	2	B0HANM000021
D103	RK39	DIODE	1	
D104	YG802C06	DIODE	1	
D105,06	RK49	DIODE	2	B0JAPK000005



D107-10	MA165	DIODE	4	MA2C165
D111	MA111TX	DIODE	1	MA2J11100L
D112	ERA15-04	DIODE	1	B0EAKP000016
D113	MA111TX	DIODE	1	MA2J11100L
D115,16	M1F60	DIODE	2	
D301-04	MA111TX	DIODE	4	MA2J11100L
D305	MA165	DIODE	1	MA2C165
D306-08	MA111TX	DIODE	3	MA2J11100L
D0702	ERJ6GEY0R00V	1/10W 0	1	
D3201,02	MA3S132E0L	DIODE	2	
D3901	MA2C165001VT	DIODE	1	
D3902	MA142WK	DIODE	1	MA3J142E0L
D3903	MA3Z142D0RG	DIODE	1	
D3904	MA142WK	DIODE	1	MA3J142E0L
D3905,06	MAZ4051NMF	DIODE	2	
D3907-12	MAZ81200GL	DIODE	6	
D4003	MA3Z142D0RG	DIODE	1	
D4005,06	MA3Z142D0RG	DIODE	2	
D7001,02	LNJ201LPQJA	LED	2	
D7501	VSD0002	DIODE	1	B0HAGR000005
D7502	ERA22-02	DIODE	1	B0HAGM000001
D7503	MAZ4240NMF	DIODE	1	
D7504,05	MA2C18500E	DIODE	2	
D7506	MA4300N-M	DIODE	1	MAZ4300NM
D7507	B0ACCK000005	DIODE	1	
D7512	MA719TA	DIODE	1	MA2C71900A
D7513	B0JACE000001	DIODE	1	
D7701	MA4300N-M	DIODE	1	MAZ4300NM
D7801	LNJ201LPQJA	LED	1	
D9001	MA3Z142K0LG	DIODE	1	
D9901,02	B0JACE000001	DIODE	2	
DP7501	A2BD00000056	DIODE	1	
DZ3901,02	D4ED18R00005	SURGE ABSORBER	2	
DZ7001	ERZVA5V471	SURGE ABSORBER	1	
F001	19181-2A	FUSE	1	

FL3001	ELB4C082B	FILTER	1
FL3002	ELB4B109B	FILTER	1
FL3003	ELB4B106B	FILTER	1
FL3004	ELB4A029B	FILTER	1
FL3005-07	ELB4C083B	FILTER	3
FL3202-18	F1H0J1050018	FILTER	17
FL3220-22	F1H0J1050018	FILTER	3
FL3225	F1H0J1050018	FILTER	1
FL3401-06	F1H0J1050018	FILTER	6
FL3409-19	F1H0J1050018	FILTER	11
FL3421,22	F1H0J1050018	FILTER	2
FL3425	F1H0J1050018	FILTER	1
FL3428	F1H0J1050018	FILTER	1
FL3501	ELB4E042B	FILTER	1
FL4401-04	F1H0J1050018	FILTER	4
FL6001-05	F1H0J1050018	FILTER	5
FL6007-13	F1H0J1050018	FILTER	7
FL6701-04	F1H0J1050018	FILTER	4
FL6707	F1H0J1050018	FILTER	1
FL6801-06	F1H0J1050018	FILTER	6
FL6808	F1H0J1050018	FILTER	1
FL9001-03	J0HAAB000017	FILTER	3
FL9004,05	F1H0J1050018	FILTER	2
FL9006,07	J0HAAB000017	FILTER	2
FL9008-10	J0HAAC000027	FILTER	3
FL9011-13	F1H0J1050018	FILTER	3
FL9016	F1J1A105A013	FILTER	1
FL9020	F1H0J1050018	FILTER	1
FL9022	F1H0J1050018	FILTER	1
FL9024	F1H0J1050018	FILTER	1
FL37001	F1H0J1050018	FILTER	1
FL37002	F1H0J1050018	FILTER	1
FL37003	F1H0J1050018	FILTER	1
FL37004	F1H0J1050018	FILTER	1
FL37005	F1H0J1050018	FILTER	1
FL37006	F1H0J1050018	FILTER	1
FL37007	F1H0J1050018	FILTER	1
FL37008	F1H0J1050018	FILTER	1

FL37009	F1H0J1050018	FILTER	1	
FL37010	F1H0J1050018	FILTER	1	
FL37012	F1H0J1050018	FILTER	1	
FL37013	F1H0J1050018	FILTER	1	
FL37014	F1H0J1050018	FILTER	1	
FL37015	F1H0J1050018	FILTER	1	
FL50001	F1H0J1050018	FILTER	1	
FL50002	F1H0J1050018	FILTER	1	
FL50003	F1H0J1050018	FILTER	1	
FL50004	F1H0J1050018	FILTER	1	
FL50005	F1H0J1050018	FILTER	1	
FL50006	F1H0J1050018	FILTER	1	
FL50007	F1H0J1050018	FILTER	1	
FL50008	F1H0J1050018	FILTER	1	
FL50009	F1H0J1050018	FILTER	1	
FL50010	F1H0J1050018	FILTER	1	
FL50011	F1H0J1050018	FILTER	1	
FL50012	F1H0J1050018	FILTER	1	
FL50013	F1H0J1050018	FILTER	1	
FL50014	F1H0J1050018	FILTER	1	
FL50016	F1H0J1050018	FILTER	1	
FL50017	F1H0J1050018	FILTER	1	
FL50018	F1H0J1050018	FILTER	1	
FL50019	F1H0J1050018	FILTER	1	
FL50020	F1H0J1050018	FILTER	1	
FL50021	F1H0J1050018	FILTER	1	
FL50023	F1H0J1050018	FILTER	1	
FL50025	F1H0J1050018	FILTER	1	
FL50027	F1H0J1050018	FILTER	1	
FL50028	F1H0J1050018	FILTER	1	
IC001	FA13844N	IC	1	
IC101	NJM431U	IC	1	
IC301,02	NJM2904M	IC	2	C0ABBA000021
IC0701	LA75503	IC	1	C1AA00000606
IC3001	C1AB00001487	IC	1	
IC3006	C1AB00000791	IC	1	
IC3201	C3ABMG000103	IC	1	
IC3202	AN13300A-VF	IC	1	

IC3203	MN673744	IC	1	
IC3401	C3ABPJ000018	IC	1	
IC3402	MN85572	IC	1	
IC3403,04	C3ABQG000007	IC	2	
IC3405	MN85610GL	IC	1	
IC3501	C1AB00000773	IC	1	
IC3502	C0JBAR000292	IC	1	
IC3503	BA7660FS-E2	IC	1	C9ZB00000282
IC3506,07	C0JBAR000292	IC	2	
IC3508	C9ZB00000377	IC	1	
IC3509	C1AA00000016	IC	1	
IC3901	C1AB00001476	IC	1	
IC4002	C0JBAR000285	IC	1	
IC4003	C0ABBB000216	IC	1	
IC4004	C1AB00000818	IC	1	
IC4005	TC7W04FTE12L	IC	1	C0JBAB000178
IC4006	K7AABA000001	IC	1	
IC4007	TC7SET08F	IC	1	C0JBAA000284
IC4008	NJM4558M	IC	1	C0ABBB000044
IC4009	C0ABBB000216	IC	1	
IC4010	C0DBZJG00005	IC	1	
IC4011	AN78L09M	IC	1	
IC4012	NJM4558M	IC	1	C0ABBB000044
IC4401	AN78L05M-E1	IC	1	AN78L05ME1
IC4404	C0ABBB000105	IC	1	
IC4405	C0FBAK000008	IC	1	
IC4406	C0JBAR000332	IC	1	
IC4407	C0JBAA000102	IC	1	
IC4408	C3BBHC000260	IC	1	
IC4409	C1ZBZ0002077	IC	1	
IC4410	C0JBAA000257	IC	1	
IC4501	C1BB00000083	IC	1	(EB)
IC6001	C3ABQG000007	IC	1	
IC6002	C0JBBZ000269	IC	1	
IC6003	C0JBAZ001918	IC	1	
IC6005	MN103E030HYB	IC	1	
IC6007	C3CBKD000117	IC	1	
IC6008	C3ABQG000007	IC	1	
IC6701	C1ZBZ0001925	IC	1	

IC6702	C0EBE0000130	IC	1	
IC6703	C1ZBZ0002042	IC	1	
IC6705	C0JBAZ001918	IC	1	
IC6706	74LVX4245MTX	IC	1	C0JBAZ001406
IC6707	REP3391AC	IC	1	DIGITAL P.C.B.(EG)
IC6707	REP3391AE	IC	1	DIGITAL P.C.B.(GN)
IC6707	REP3391CE	IC	1	DIGITAL P.C.B.(EB)
IC6708	C0JBAB000474	IC	1	
IC6801	C0JBAZ001859	IC	1	
IC6802	C1ZBZ0002086	IC	1	
IC6803	C0JBAZ001959	IC	1	
IC6804	C0JBAB000007	IC	1	
IC6805	TC7W14FU	IC	1	
IC6806	C0EBJ0000172	IC	1	
IC6807	TC7W32FUTL	IC	1	C0JBAE000098
IC6808	C0DBFHD00003	IC	1	
IC7301	TDA9874AH	IC	1	C1AB00001404
IC7302	PST7043-T	IC	1	C0EAH0000051
IC7501	C0HBB0000029	IC	1	
IC7502	C2CBJG000264	IC	1	
IC7503	C1BA00000060	IC	1	
IC7504	C0EAJ0000045	IC	1	
IC7505	C0EBF0000057	IC	1	
IC7506	C3EBJC000038	IC	1	
IC7507	NJM2904M	IC	1	C0ABBA000021
IC7508	C0EBE0000218	IC	1	
IC7601	NJM4558M	IC	1	C0ABBB000044
IC9001	C0DBC GD00001	IC	1	
IC9901,02	C0DBCHD00002	IC	2	
IC9903	C0DBZJG00005	IC	1	
IC9904	C0DBZHE00013	IC	1	
IC9905	C0DBFGD00009	IC	1	
IC9906	C0DBE ZC00010	IC	1	
IC9907,08	C0DBFHD00003	IC	2	
IC9909	C0CBCBE00001	IC	1	
IC9910	C0DBFFE00002	IC	1	
IC9911	C0DBFFD00006	IC	1	
IC9912	C0DBCHD00002	IC	1	
IC37001	MN673745	IC	1	

IC37002	C1DB00000526	IC	1	
IC37003	BH7086KV	IC	1	C1ZBZ0001649
IC37006	C1BB00000699	IC	1	
IC37007	C0JBAR000255	IC	1	
IC37008	C0JBAA000102	IC	1	
IC37009	C0JBAA000257	IC	1	
IC37010	C0JBAA000257	IC	1	
IC37011	C0JBAA000102	IC	1	
IC50001	C1DB00000895	IC	1	
IC50002	C3ABPG000067	IC	1	
IC50003	MN677551NA	IC	1	
IC50004	C3ABPG000067	IC	1	
IC50005	C0JBAR000332	IC	1	
IC50006	C0JBAB000474	IC	1	
IC50009	C1DB00000950	IC	1	
IC50010	C0FBBK000030	IC	1	
IC50011	C0CBCBD00002	IC	1	
IC50012	C0JBAZ001776	IC	1	
IC50013	C0JBAD000107	IC	1	
IC50014	C0JBAF000206	IC	1	
IC50015	C0CBCBD00002	IC	1	
IP101	ICPN15	IC PROTECTOR	1	
IP4001	D4FAR4000001	IC PROTECTOR	1	
IP7501	D4FAR4000001	IC PROTECTOR	1	
IR7001	C9ZZ00000015	REMOTE SENSOR	1	
JK3001	K1U822B00001	JACK,AV IN/OUT	1	
JK3904	K1FB121A0003	JACK,AV 2	1	
JK3905	K1FB121A0003	JACK,AV 1	1	
JK7001	K2HA307A0006	JACK,AV IN	1	
JK7002	K1CB104A0014	JACK,S-VIDEO IN	1	
K0701	ECJ1VC1H560J	50V 56P	1	(EG)(GN)
K0703	ERJ3GEY0R00V	1/16W 0	1	
K0707	ERJ3GEY0R00V	1/16W 0	1	
K0709	ERJ3GEY0R00V	1/16W 0	1	

K6801,02	ERJ3GEY0R00V	1/16W 0	2	
K7001	ERJ3GEY0R00V	1/16W 0	1	
K7002	ERJ8GEY0R00V	1/8W 0	1	
K7004	ERJ3GEY0R00V	1/16W 0	1	
K7301-03	ERJ3GEY0R00V	1/16W 0	3	
K7305	ERJ3GEY0R00V	1/16W 0	1	
K7705	ERJ3GEY0R00V	1/16W 0	1	
L001,02	ELF15N005A	NOISE FILTER	2	
L003	EXCELDR35	FILTER	1	
L004	LHLZ680K	FILTER	1	
L101	EXCELDR35	FILTER	1	
L102	LHLZ1R0M	FILTER	1	
L103	EXCELDR35	FILTER	1	
L104	EXCELSA24	FILTER	1	
L105	LHLZ2R2M	FILTER	1	
L106	EXCELDR35	FILTER	1	
L107	LH8TB100K	FILTER	1	
L108	LHLZ1R5M	FILTER	1	
L109	LHLZ4R7M	FILTER	1	
L110,11	EXCELSA24	FILTER	2	
L113,14	EXCELDR35	FILTER	2	
L115	EXCELSA35	FILTER	1	
L116	LHLZ2R2M	FILTER	1	
L117	EXCELSA24	FILTER	1	
L0701	ELJNAR22JF	COIL	1	(EB)
L0701	ELJNAR27JF	COIL	1	(EG)(GN)
L0703	ELJNA1R8JF	COIL	1	(EB)
L0703	ELJNA2R2JF	COIL	1	(EG)(GN)
L3001-04	G0C220JA0019	COIL 22UH	4	
L3501	G0C220JA0019	COIL 22UH	1	
L3502	G0C100JA0019	COIL 10UH	1	
L3504	G0C220JA0019	COIL 22UH	1	
L3505	G0C4R7JA0019	COIL 4.7UH	1	
L3506	G0C220JA0019	COIL 22UH	1	
L3508	G0C4R7JA0019	COIL 4.7UH	1	
L4002	ELESE220KA	COIL 22UH	1	
L7303	G0C1R0JA0019	COIL	1	
L7701	ERDS2FJ271	1/4W 270	1	(EB)

L7703	VLQ0599J270	COIL 27UH	1	G0C270JA0026 (EB)
L7704	VLQ0599J2R2	COIL 2.2UH	1	G0C2R2JA0026
L37001	VLQ0426J120	COIL 12UH	1	G1C120J00005
LB3001-04	J0JGC0000020	COIL	4	
LB3005-10	ERJ3GEY0R00V	1/16W 0	6	
LB3201-03	J0JHC0000032	COIL	3	
LB3907,08	J0JGC0000020	COIL	2	
LB3911-13	J0JGC0000020	COIL	3	
LB3922-25	J0JGC0000020	COIL	4	
LB4001	J0JGC0000020	COIL	1	
LB4403-06	J0JGC0000020	COIL	4	
LB4501	J0JGC0000020	COIL	1	(EB)
LB6803,04	J0JHC0000032	COIL	2	
LB6805	J0JHC0000045	COIL	1	
LB7001-05	VLP0323A601T	COIL	5	J0JCC0000103
LB7301,02	VLP0153	COIL	2	J0JCC0000112
LB7303	VLP0150	COIL	1	J0JCC0000021
LB7501,02	ERJ3GEY0R00V	1/16W 0	2	
LB7503	G0ZZ00001936	COIL	1	
LB7504	J0JGC0000020	COIL	1	
LB7505	ERJ3GEY0R00V	1/16W 0	1	
LB7506	J0JGC0000020	COIL	1	
LB7507,08	J0JHC0000032	COIL	2	
LB7509,10	J0JGC0000020	COIL	2	
LB7511	J0JHC0000032	COIL	1	
LB7512-18	J0JGC0000020	COIL	7	
LB7519	ERJ3GEY0R00V	1/16W 0	1	
LB7520-23	J0JGC0000020	COIL	4	
LB7701-03	J0JHC0000032	COIL	3	
LB7705	J0JHC0000032	COIL	1	
LB7707	J0JGC0000020	COIL	1	
LB7708	J0JHC0000032	COIL	1	
LB7709	ERJ6GEY0R00V	1/10W 0	1	(EB)
LB7710-13	J0JHC0000032	COIL	4	
LB9001	J0JHC0000032	COIL	1	
LB9002,03	J0JHC0000045	COIL	2	
LB9005	J0JHC0000032	COIL	1	
LB9006	J0JHC0000045	COIL	1	

LB9007	J0JHC0000032	COIL	1	
LB9009	J0JHC0000032	COIL	1	
LB9012,13	J0JHC0000045	COIL	2	
LB9015	VLP0323A601T	COIL	1	J0JCC0000103
LB9018-21	VLP0323A601T	COIL	4	J0JCC0000103
LB9028-30	VLP0323A601T	COIL	3	J0JCC0000103
LB9032	VLP0323A601T	COIL	1	J0JCC0000103
LB9034	VLP0323A601T	COIL	1	J0JCC0000103
LB9036-38	VLP0323A601T	COIL	3	J0JCC0000103
LB9040	VLP0323A601T	COIL	1	J0JCC0000103
LB9046	VLP0323A601T	COIL	1	J0JCC0000103
LB9801	ERJ3GEY0R00V	1/16W 0	1	
LB9901-07	J0JHC0000032	COIL	7	
LB9908-14	J0JGC0000020	COIL	7	
LB37001	J0JHC0000032	COIL	1	
LB37002	J0JHC0000032	COIL	1	
LB37003	J0JHC0000032	COIL	1	
LB37005	J0JHC0000032	COIL	1	
LB50001	J0JHC0000032	COIL	1	
LB50003	J0JGC0000020	COIL	1	
LB50004	J0JHC0000032	COIL	1	
LB50005	J0JHC0000032	COIL	1	
LB50006	J0JGC0000020	COIL	1	
LX9801-08	D1H8R0040009	RESISTOR-RESISTOR	8	
P001	M2023	AC INLET	1	
P3401	K1MN40B00010	CONNECTOR(40P)	1	
P3402	K1MN40B00023	CONNECTOR(40P)	1	
P6001	K1KA06B00054	CONNECTOR(6P)	1	
P6701	K1MN50B00008	CONNECTOR(50P)	1	
P6801	K1MN50B00012	CONNECTOR(50P)	1	
P6802	K1NA68E00065	CONNECTOR(68P)	1	
P6803	K1KA05B00048	CONNECTOR(5P)	1	
P7001	K1KA20C00003	CONNECTOR(20P)	1	
P7501	K1KB20B00039	CONNECTOR(20P)	1	
P7504	TJS118601T	CONNECTOR(3P)	1	K1KA03A00173
P7801	K1KA10C00006	CONNECTOR(10P)	1	
P7802	K1MN06C00002	CONNECTOR(6P)	1	

P7901	TJSF45106	CONNECTOR(6P)	1	K1MN06B00066
P9001	K1KB80B00020	CONNECTOR(80P)	1	
P9801	K1KB40A00118	CONNECTOR(40P)	1	
P9802	K1MN40B00022	CONNECTOR(40P)	1	
P9901	K1KA05A00082	CONNECTOR(5P)	1	
P37001	K1KB08B00055	CONNECTOR(8P)	1	
P37002	K1KA08B00213	CONNECTOR(8P)	1	
P37003	K2HZ104B0010	CONNECTOR(104P)	1	
PC001	0N3171	PHOTO COUPLER	1	CNC1S171
<u>PC1</u>	RPG6046	PACKING CASE	1	(EG)
PC1	RPG6047	PACKING CASE	1	(EB)
PC1	RPG6176	PACKING CASE	1	(GN)
<u>PC2</u>	RPN1557A	CUSHION(L)	1	
<u>PC3</u>	RPN1557B	CUSHION(R)	1	
<u>PC4</u>	VPF0505	POLYETHYLENE BAG	1	
PK0701	VJR0826E009W	CONNECTOR(MALE) 9P	1	K1MR09A00028
PK7301	VJR0777B007W	CONNECTOR(MALE) 7P	1	K1MM07B00002
PK7302	VJR0777B006W	CONNECTOR(MALE) 6P	1	K1MM06B00002
PP0701	VJP3589E004B	CONNECTOR(MALE) 4P	1	K1KA04B00135
PP3001	VJP3042G015W	CONNECTOR(MALE) 15P	1	K1KA15A00064
PP3002	VJP3042G012W	CONNECTOR(MALE) 12P	1	K1KA12A00136
PP3003	VJP3042G018W	CONNECTOR(MALE) 18P	1	K1KA18A00041
PP3004	VJP3042G020W	CONNECTOR(MALE) 20P	1	K1KA20A00203
PP3005	VJP3042G012W	CONNECTOR(MALE) 12P	1	K1KA12A00136
PP3006	VJP3042G015W	CONNECTOR(MALE) 15P	1	K1KA15A00064
PP9901	K1KA80A00096	CONNECTOR(FEMALE) 80P	1	
PP9902	K1KA23A00003	CONNECTOR(MALE) 23P	1	
PS101	B4B-EH-A	CONNECTOR(4P)	1	
PS102	TWGP23XA1	CONNECTOR(23P)	1	
PS103	52724-1010	CONNECTOR(10P)	1	
PS104	B4B-EH-A	CONNECTOR(4P)	1	
PS3501	VJS3042F015W	CONNECTOR(FEMALE) 15P	1	K1KB15B00013
PS3502	VJS3042F012W	CONNECTOR(FEMALE) 12P	1	K1KB12B00030
PS3503	VJS3042F018W	CONNECTOR(FEMALE) 18P	1	K1KB18B00012
PS3901	VJS3042F012W	CONNECTOR(FEMALE) 12P	1	K1KB12B00030

PS3902	VJS3042F015W	CONNECTOR(FEMALE) 15P	1	K1KB15B00013
PS3903	VJS3042F020W	CONNECTOR (FEMALE) 20P	1	K1KB20B00027
Q001	FMG2A	TRANSISTOR	1	
Q002	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q004	2SK2718	TRANSISTOR	1	
Q101	UN221L	TRANSISTOR	1	UNR221L
Q102	2SB709A	TRANSISTOR	1	2SB0709A
Q103,04	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q105	UPA1720G	TRANSISTOR	1	
Q106	UN2111	TRANSISTOR	1	UNR2111
Q107	UPA1717G	TRANSISTOR	1	
Q301,02	2SK3366	TRANSISTOR	2	
Q303	2SD602A-R	TRANSISTOR	1	2SD0602AR
Q304	2SB710A	TRANSISTOR	1	2SB0710A
Q305	2SD602A-R	TRANSISTOR	1	2SD0602AR
Q306	2SB710A	TRANSISTOR	1	2SB0710A
Q307,08	2SB1218A	TRANSISTOR	2	
Q309,10	2SD1328-R	TRANSISTOR	2	2SD13280R
Q311,12	2SB1218A	TRANSISTOR	2	
Q0702	2SD0601ASL	TRANSISTOR	1	
Q3001	2SD1819A0L	TRANSISTOR	1	
Q3002	2SB1218A0L	TRANSISTOR	1	
Q3003	2SD1819A0L	TRANSISTOR	1	
Q3004	2SB1218A0L	TRANSISTOR	1	
Q3006-11	2SB1218A0L	TRANSISTOR	6	
Q3201	2SB1218A0L	TRANSISTOR	1	
Q3202	2SD1819A0L	TRANSISTOR	1	
Q3501-04	2SD0601A0L	TRANSISTOR	4	
Q3505	2SC22950BL	TRANSISTOR	1	
Q3506	2SA10220BL	TRANSISTOR	1	
Q3507,08	2SB709A	TRANSISTOR	2	2SB0709A
Q3509	2SD0601A0L	TRANSISTOR	1	
Q3902	2SB1218A0L	TRANSISTOR	1	
Q3905	2SD132800L	TRANSISTOR	1	
Q3906	2SB0710A0L	TRANSISTOR	1	
Q3907	2SD1819AWL	TRANSISTOR	1	
Q3908	2SB1218A0L	TRANSISTOR	1	
Q3909,10	2SD132800L	TRANSISTOR	2	

Q4001,02	2SD132800L	TRANSISTOR	2	
Q4004	2SB1218A0L	TRANSISTOR	1	
Q4006-09	2SD132800L	TRANSISTOR	4	
Q4501	2SD0601A0L	TRANSISTOR	1	(EB)
Q6701-04	2SD0601A0L	TRANSISTOR	4	
Q7501,02	2SD0601A0L	TRANSISTOR	2	
Q7503	2SD1994BR1VT	TRANSISTOR	1	
Q7504,05	2SD0601A0L	TRANSISTOR	2	
Q7506	2SD1819A0L	TRANSISTOR	1	
Q7507	2SD0601A0L	TRANSISTOR	1	
Q7508	2SD1819A0L	TRANSISTOR	1	
Q7509	2SC2295	TRANSISTOR	1	
Q7510	2SB709A	TRANSISTOR	1	2SB0709A
Q7511,12	2SD0601A0L	TRANSISTOR	2	
Q7513	2SD1819A0L	TRANSISTOR	1	
Q7515	2SD1119-R	TRANSISTOR	1	2SD11190R
Q7516	2SB0710A0L	TRANSISTOR	1	
Q7701	2SD1819A0L	TRANSISTOR	1	
Q7702	2SB1218A0L	TRANSISTOR	1	
Q50001-05	2SB1218A0L	TRANSISTOR	5	
QR3401	UN521L	TRANSISTOR	1	UNR521L
QR3402,03	UN5213TX	TRANSISTOR	2	UNR521300L
QR3901-06	UN5212-TX	TRANSISTOR	6	UNR521200L
QR3907	UNR511400L	TRANSISTOR	1	
QR3908	UN5212-TX	TRANSISTOR	1	UNR521200L
QR3909	UNR521100L	TRANSISTOR	1	
QR3910,11	UN5212-TX	TRANSISTOR	2	UNR521200L
QR3912	UNR511400L	TRANSISTOR	1	
QR3913	UN5212-TX	TRANSISTOR	1	UNR521200L
QR3914,15	UN2215-TX	TRANSISTOR	2	UNR221500L
QR4002-07	UNR521100L	TRANSISTOR	6	
QR4010,11	UNR521100L	TRANSISTOR	2	
QR4012	UN5113TW	TRANSISTOR	1	
QR6801	UN5213TX	TRANSISTOR	1	UNR521300L
QR6802	UNR521100L	TRANSISTOR	1	
QR7001-03	UN5213TX	TRANSISTOR	3	UNR521300L
QR7501	UN5212-TX	TRANSISTOR	1	UNR521200L
QR7502	UN5113TW	TRANSISTOR	1	

QR7701	UN2115-TX	TRANSISTOR	1	UNR211500L (EB)
QR7702	UN2215-TX	TRANSISTOR	1	UNR221500L (EB)
QR7802,03	UN5213TX	TRANSISTOR	2	UNR521300L
R001	ERDS1FJ223	0.5W 22K	1	
R002	ERDS1TJ474	1/2W 470K	1	
R003	ERDS1FJ223	0.5W 22K	1	
R005	ERDS1FJ223	0.5W 22K	1	
R006	CR10J473	0.1W 47K	1	
R007	CR10F1502	0.1W 15K	1	
R008	CR10F6810	0.1W 681	1	
R009	CR10J104	0.1W 100K	1	
R010	CR10F1621	0.1W 1.62K	1	
R011	CR10J102	0.1W 1K	1	
R012	CR10J822	0.1W 8.2K	1	
R013	CR10J222	0.1W 2.2K	1	
R014	CR10J333	0.1W 33K	1	
R015,16	CR10J101	0.1W 100	2	
R018	ERJ12YJ4R7	0.5W 4.7	1	
R020	CR10J101	0.1W 100	1	
R021	CR10J561	0.1W 560	1	
R023	ERJ14YJ224	0.25W 220K	1	
R024-26	CR100R00	0	3	
R027	ERG1SJ101	1W 100	1	
R028	ERJ12YJ4R7	0.5W 4.7	1	
R030	ERJ14YJ224	0.25W 220K	1	
R102	CR10J152	0.1W 1.5K	1	
R103	CR10J471	0.1W 470	1	
R104	CR10J100	0.1W 10	1	
R105	CR10J102	0.1W 1K	1	
R106	CR10J150	0.1W 15	1	
R107	CR10J330	0.1W 33	1	
R108	CR10J4R7	0.1W 4.7	1	
R109	CR10J100	0.1W 10	1	
R111-13	CR10JR16	0.1W 0.16	3	
R114	CR10J101	0.1W 100	1	
R115	CR10J222	0.1W 2.2K	1	
R116	CR10J101	0.1W 100	1	
R118	ERDS2FJ121	1/4W 120	1	

R119	CR10J101	0.1W 100	1	
R120	ER0S2CHF1470	0.25W 147	1	
R120	ER0S2CKF1400	0.25W 140	1	
R120	ER0S2CKF1430	0.25W 143	1	
R121	CR10J471	0.1W 470	1	
R122-24	CR10JR16	0.1W 0.16	3	
R125	ERDS2FJ821	1/4W 820	1	
R126	CR10J102	0.1W 1K	1	
R127	CR10J471	0.1W 470	1	
R129	CR10J222	0.1W 2.2K	1	
R130	ERDS2FJ332	1/4W 3.3K	1	
R131,32	CR10J102	0.1W 1K	2	
R135,36	CR10J682	0.1W 6.8K	2	
R137	CR100R00	0	1	
R139-42	CR10JR16	0.1W 0.16	4	
R144	CR10J822	0.1W 8.2K	1	
R145	ER0S2TKF4320	0.25W 432	1	
R145	ER0S2TKF4420	0.25W 442	1	
R145	ER0S2TKF4530	0.25W 453	1	
R301,02	CR10J101	0.1W 100	2	
R303,04	CR10J103	0.1W 10K	2	
R305,06	CR10J472	0.1W 4.7K	2	
R307	CR10J102	0.1W 1K	1	
R308	ERDS2FJ472	1/4W 4.7K	1	
R309	CR10J102	0.1W 1K	1	
R310	CR10J472	0.1W 4.7K	1	
R311	CR10J683	0.1W 68K	1	
R312	CR10J472	0.1W 4.7K	1	
R313	CR10J683	0.1W 68K	1	
R314	CR10J472	0.1W 4.7K	1	
R315,16	CR10J752	0.1W 7.5K	2	
R317	CR10J102	0.1W 1K	1	
R318	CR10J471	0.1W 470	1	
R319,20	CR10J472	0.1W 4.7K	2	
R321,22	CR10J822	0.1W 8.2K	2	
R323-26	CR10J103	0.1W 10K	4	
R327	CR10J223	0.1W 22K	1	
R328	CR10F2210	0.1W 221	1	
R329	CR10J223	0.1W 22K	1	

R330	CR10F2210	0.1W 221	1	
R331	CR10F1002	0.1W 10K	1	
R332	CR10F3321	0.1W 3.32K	1	
R333	CR10F1002	0.1W 10K	1	
R334	CR10F3321	0.1W 3.32K	1	
R335,36	CR10J103	0.1W 10K	2	
R337,38	CR10J473	0.1W 47K	2	
R339	CR10F9091	0.1W 9.09K	1	
R340	CR10F4752	0.1W 47.5K	1	
R341	CR10F9091	0.1W 9.09K	1	
R342	CR10F4752	0.1W 47.5K	1	
R343	CR10F7151	0.1W 7.15K	1	
R344	CR10F4752	0.1W 47.5K	1	
R345	CR10F6811	0.1W 6.81K	1	
R346	CR10F4752	0.1W 47.5K	1	
R347-50	CR10J103	0.1W 10K	4	
R0701	ERJ6GEYJ104V	1/10W 100K	1	(EB)
R0705	ERJ3GEYJ472V	1/16W 4.7K	1	
R0707	ERJ3GEYJ393V	1/16W 39K	1	D0GB393JA002
R0708	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R0711	ERJ3GEYJ181V	1/16W 180	1	
R0713	ERJ3GEY0R00V	1/16W 0	1	
R0715	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R0717	ERJ3GEYJ471V	1/16W 470	1	
R0719	ERJ3GEYJ472V	1/16W 4.7K	1	
R0725	ERJ6GEYJ101V	1/10W 100	1	
R0727	ERJ3GEY0R00V	1/16W 0	1	
R0728	ERJ3GEY0R00V	1/16W 0	1	(EB)
R0729	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R0730	ERJ6GEYJ103V	1/10W 10K	1	(EG)(GN)
R0740	ERJ3GEYG471V	1/16W 470	1	
R0741	ERJ3GEYJ221V	1/16W 220	1	
R0742	ERJ8GEYJ151V	1/8W 150	1	
R0745	ERJ6GEYJ335V	1/10W 3.3M	1	
R3004	ERJ3GEY0R00V	1/16W 0	1	
R3005	ERJ3GEYJ102V	1/16W 1K	1	
R3006	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3007,08	ERJ3RBD202V	1/16W 2K	2	
R3009	ERJ3GEYJ102V	1/16W 1K	1	

R3010	ERJ3GEYJ471V	1/16W 470	1	
R3011	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3015	ERJ3GEY0R00V	1/16W 0	1	
R3016	ERJ3GEYJ102V	1/16W 1K	1	
R3017	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3018,19	ERJ3RBD362	1/16W 3.6K	2	
R3020,21	ERJ3GEYJ102V	1/16W 1K	2	
R3022	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3023	ERJ3GEYJ152V	1/16W 1.5K	1	
R3033	MCR03PZHJ561	1/16W 560	1	
R3034	ERJ3GEYJ272V	1/16W 2.7K	1	
R3035,36	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R3037	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3038	ERJ3GEYJ102V	1/16W 1K	1	
R3039	MCR03PZHJ561	1/16W 560	1	
R3040	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3041	ERJ3GEYJ101V	1/16W 100	1	
R3042	ERJ3GEYJ102V	1/16W 1K	1	
R3043	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3044	ERJ3GEYJ101V	1/16W 100	1	
R3046	ERJ3GEYJ331V	1/16W 330	1	
R3047-49	MCR03PZHJ561	1/16W 560	3	
R3050	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3051	ERJ3GEYJ101V	1/16W 100	1	
R3053	ERJ3GEYJ331V	1/16W 330	1	
R3054	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3055	ERJ3GEYJ101V	1/16W 100	1	
R3057	ERJ3GEYJ331V	1/16W 330	1	
R3074-76	ERJ3GEYJ221V	1/16W 220	3	
R3077,78	ERJ3GEY0R00V	1/16W 0	2	
R3079,80	ERJ3GEYJ221V	1/16W 220	2	
R3081,82	ERJ3GEYJ750	1/16W 75	2	
R3083	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3084-87	ERJ3GEYJ750	1/16W 75	4	
R3204,05	ERJ3GEYJ822V	1/16W 8.2K	2	D0GB822JA002
R3206	ERJ3GEY0R00A	1/16W 0	1	
R3211,12	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R3213-15	ERJ3GEY0R00A	1/16W 0	3	
R3216	ERJ3GEYJ822V	1/16W 8.2K	1	D0GB822JA002

R3217,18	ERJ3GEYJ220V	1/16W 22	2	
R3219	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R3220,21	ERJ3RBD682V	1/16W 6.8K	2	
R3222	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002
R3223	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3224	ERJ3GEYJ102V	1/16W 1K	1	
R3225-27	ERJ3GEY0R00A	1/16W 0	3	
R3231,32	ERJ3GEYJ220V	1/16W 22	2	
R3236	ERJ3GEY0R00A	1/16W 0	1	
R3401	ERJ3GEYJ390	1/16W 39	1	
R3407,08	ERJ3GEYJ820V	1/16W 82	2	
R3409	ERJ3GEYJ102V	1/16W 1K	1	
R3410	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R3411	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3412	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R3413,14	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3415,16	ERJ3GEYJ220V	1/16W 22	2	
R3419	ERJ3GEYJ220V	1/16W 22	1	
R3420	ERJ3GEYJ105V	1/16W 1M	1	
R3422-24	ERJ3GEYJ220V	1/16W 22	3	
R3425	ERJ3GEY0R00A	1/16W 0	1	
R3426	ERJ3GEYJ220V	1/16W 22	1	
R3427	ERJ3GEY0R00A	1/16W 0	1	
R3501	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R3502	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R3503	ERJ3GEY0R00V	1/16W 0	1	
R3504	ERJ3GEYJ101V	1/16W 100	1	
R3505	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R3506	ERJ3GEYJ102V	1/16W 1K	1	
R3507	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R3508	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R3509	ERJ3GEYJ102V	1/16W 1K	1	
R3510	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R3511	ERJ3GEYJ102V	1/16W 1K	1	
R3512	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R3513	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R3514	ERJ3GEYJ102V	1/16W 1K	1	
R3515	ERJ3RBD333V	1/16W 33K	1	
R3516	ERJ3RBD562V	1/16W 5.6K	1	

R3517,18	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R3519	ERJ3GEYJ331V	1/16W 330	1	
R3520	ERJ3GEYJ224V	1/16W 220K	1	D0GB224JA002
R3523	ERJ3GEYJ563V	1/16W 56K	1	
R3524	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3525	ERJ3RBD913	1/16W 91K	1	
R3526	ERJ3GEYJ153V	1/16W 15K	1	
R3527	ERJ3RBD471V	1/16W 470	1	
R3528	ERJ3GEYJ102V	1/16W 1K	1	
R3529	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002
R3530-32	ERJ3GEYJ102V	1/16W 1K	3	
R3533	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R3534	ERJ3GEYJ331V	1/16W 330	1	
R3535	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R3536	ERJ3RBD121	1/16W 120	1	ERJ3RBD121V
R3537	ERJ3RBD241	1/16W 240	1	ERJ3RBD241V
R3538	ERJ3GEYJ102V	1/16W 1K	1	
R3566	ERJ3GEY0R00V	1/16W 0	1	
R3567-70	ERJ3RBD333V	1/16W 33K	4	
R3572-75	ERJ3RBD562V	1/16W 5.6K	4	
R3576,77	ERJ3RBD333V	1/16W 33K	2	
R3578,79	ERJ3RBD562V	1/16W 5.6K	2	
R3580	ERJ3RBD333V	1/16W 33K	1	
R3581	ERJ3RBD562V	1/16W 5.6K	1	
R3582	ERJ3GEYJ272V	1/16W 2.7K	1	
R3583,84	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R3901	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3908,09	ERJ6GEYJ471V	1/10W 470	2	
R3910	ERJ3RBD151	1/16W 150	1	
R3911,12	ERJ3GEYJ222V	1/16W 2.2K	2	D0GB222JA002
R3913	ERJ3RBD181V	1/16W 180	1	
R3914	ERJ3RBD151	1/16W 150	1	
R3916	ERJ3GEYJ101V	1/16W 100	1	
R3918	ERJ3GEYJ102V	1/16W 1K	1	
R3919	ERJ3RBD151	1/16W 150	1	
R3921	ERJ3RED750V	1/16W 75	1	
R3922,23	ERJ6GEYJ471V	1/10W 470	2	
R3924	ERDS2FJ471	1/4W 470	1	
R3925-28	ERJ3GEYJ750	1/16W 75	4	

R3929,30	ERJ6GEYJ471V	1/10W 470	2	
R3931-34	ERJ3RED750V	1/16W 75	4	
R3935	ERJ3GEYJ750	1/16W 75	1	
R3936,37	ERJ3GEYJ472V	1/16W 4.7K	2	
R3938	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3939	ERJ3GEYJ472V	1/16W 4.7K	1	
R3940	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3941	ERJ3GEYJ153V	1/16W 15K	1	
R3942	ERJ3GEYJ472V	1/16W 4.7K	1	
R3943	ERDS2FJ471	1/4W 470	1	
R3944	ERJ3GEYJ472V	1/16W 4.7K	1	
R3945	ERJ3GEYJ392V	1/16W 3.9K	1	
R3962	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3966	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3967	ERJ3GEYJ152V	1/16W 1.5K	1	
R3968	ERJ3GEYJ680	1/16W 68	1	ERJ3GEYJ680V
R3969	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R3972-74	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R3975,76	ERJ3GEYJ101V	1/16W 100	2	
R3977,78	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3979,80	ERJ6GEYJ471V	1/10W 470	2	
R3981,82	ERJ3GEYJ821V	1/16W 820	2	
R3983,84	ERJ3GEYJ104V	1/16W 100K	2	D0GB104JA002
R3985	ERJ3RBD472V	1/16W 4.7K	1	
R3986	ERJ3RBD122V	1/16W 1.2K	1	
R3987	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3988,89	ERJ3GEYJ102V	1/16W 1K	2	
R3990,91	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R3992,93	ERJ3GEYJ102V	1/16W 1K	2	
R3994	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4001	ERJ3GEY0R00V	1/16W 0	1	
R4002	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4004	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R4005	ERJ3GEYJ751	1/16W 750	1	
R4006,07	ERJ3GEYJ272V	1/16W 2.7K	2	
R4008	ERJ3GEYJ751	1/16W 750	1	
R4014	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4017	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4019,20	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002

R4023	ERJ3GEYJ752V	1/16W 7.5K	1	
R4024	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4025	ERJ3GEYJ752V	1/16W 7.5K	1	
R4028	ERJ3GEYJ682V	1/16W 6.8K	1	D0GB682JA002
R4029	ERJ3GEYJ221V	1/16W 220	1	
R4030	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4031,32	ERJ3GEYJ221V	1/16W 220	2	
R4033	ERJ3GEYJ682V	1/16W 6.8K	1	D0GB682JA002
R4037,38	ERJ3GEYJ184V	1/16W 180K	2	
R4040-43	ERJ3GEYJ184V	1/16W 180K	4	
R4044,45	ERJ3GEY0R00V	1/16W 0	2	
R4046,47	ERJ3RBD392V	1/16W 3.9K	2	
R4049-54	ERJ3GEYJ683V	1/16W 68K	6	D0GB683JA002
R4055	ERJ3RBD822V	1/16W 8.2K	1	
R4056	ERJ3RBD272V	1/16W 2.7K	1	
R4057	ERJ3RBD822V	1/16W 8.2K	1	
R4058	ERJ3RBD272V	1/16W 2.7K	1	
R4060-65	ERJ3GEYJ183V	1/16W 18K	6	D0GB183JA002
R4066,67	ERJ3RBD103V	1/16W 10K	2	
R4070	ERJ3GEYJ101V	1/16W 100	1	
R4071	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4072,73	ERJ3GEYJ563V	1/16W 56K	2	
R4074	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4076	ERJ3RBD821V	1/16W 820	1	
R4077	ERJ3RBD331V	1/16W 330	1	
R4078,79	ERJ3GEYJ272V	1/16W 2.7K	2	
R4080	ERJ3RBD331V	1/16W 330	1	
R4081	ERJ3RBD821V	1/16W 820	1	
R4083	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R4085	ERJ3GEY0R00V	1/16W 0	1	
R4086	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R4087	ERJ3GEYJ102V	1/16W 1K	1	
R4088,89	ERJ3GEYJ272V	1/16W 2.7K	2	
R4090	ERJ3RBD221V	1/16W 220	1	
R4091,92	ERJ3GEY0R00V	1/16W 0	2	
R4093	ERJ3RBD221V	1/16W 220	1	
R4094,95	ERJ3GEYJ333V	1/16W 33K	2	D0GB333JA002
R4097,98	ERJ3RED204	1/16W 200K	2	
R4099	ERJ3GEYJ101V	1/16W 100	1	

R4403	ERJ3RBD682V	1/16W 6.8K	1	
R4404	ERJ3RBD133V	1/16W 13K	1	
R4405-07	ERJ3RBD682V	1/16W 6.8K	3	
R4408	ERJ3RBD133V	1/16W 13K	1	
R4409,10	ERJ3GEY0R00A	1/16W 0	2	
R4411	ERJ3GEYJ221V	1/16W 220	1	
R4412,13	ERJ3GEY0R00A	1/16W 0	2	
R4414	ERJ3GEYJ220V	1/16W 22	1	
R4415,16	ERJ3GEY0R00A	1/16W 0	2	
R4420	ERJ3GEYJ470V	1/16W 47	1	
R4422	ERJ3GEY0R00A	1/16W 0	1	
R4424	ERJ3GEY0R00A	1/16W 0	1	
R4426	ERJ3GEY0R00A	1/16W 0	1	
R4428	ERJ3GEY0R00A	1/16W 0	1	
R4430	ERJ3GEY0R00A	1/16W 0	1	
R4436,37	ERJ3GEY0R00A	1/16W 0	2	
R4501,02	ERJ3GEYJ153V	1/16W 15K	2	(EB)
R4503	ERJ3GEYJ822V	1/16W 8.2K	1	D0GB822JA002 (EB)
R4505	ERJ3GEYJ911	1/16W 910	1	(EB)
R4506	ERJ3GEYJ335V	1/16W 3.3M	1	(EB)
R4507,08	ERJ3GEYJ152V	1/16W 1.5K	2	(EB)
R4509	ERJ3GEYJ911	1/16W 910	1	(EB)
R4510	ERJ3GEYJ822V	1/16W 8.2K	1	D0GB822JA002 (EB)
R4511	ERJ3GEYJ752V	1/16W 7.5K	1	(EB)
R4512	ERJ3GEYJ472V	1/16W 4.7K	1	(EB)
R6001	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R6003	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6004	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6005,06	ERJ3GEYJ330V	1/16W 33	2	D0GB330JA002
R6007	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6008,09	ERJ3GEYJ470V	1/16W 47	2	
R6010	ERJ3GEYJ102V	1/16W 1K	1	
R6011	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R6012	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6015	ERJ3GEYJ105V	1/16W 1M	1	
R6016	ERJ3GEYJ470V	1/16W 47	1	
R6017	ERJ3GEY0R00A	1/16W 0	1	
R6019-21	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R6022	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002

R6023	ERJ3GEYJ470V	1/16W 47	1	
R6024	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6025,26	ERJ3GEYJ332V	1/16W 3.3K	2	D0GB332JA002
R6028	ERJ3GEY0R00A	1/16W 0	1	
R6029	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R6030	ERJ3GEY0R00A	1/16W 0	1	
R6031,32	ERJ3GEYJ222V	1/16W 2.2K	2	D0GB222JA002
R6034	ERJ3GEYJ470V	1/16W 47	1	
R6035,36	ERJ3GEYJ333V	1/16W 33K	2	D0GB333JA002
R6037,38	ERJ3GEYJ470V	1/16W 47	2	
R6039	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6040	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6041	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6042	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6043-45	ERJ3GEYJ470V	1/16W 47	3	
R6046	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R6048	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6051	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6052	ERJ3GEY0R00A	1/16W 0	1	
R6701	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6702	ERJ3GEYJ472V	1/16W 4.7K	1	
R6703	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6704	ERJ3GEYJ472V	1/16W 4.7K	1	
R6705	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6706	ERJ3GEYJ472V	1/16W 4.7K	1	
R6707	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6708	ERJ3GEY0R00A	1/16W 0	1	
R6709	ERJ3GEYJ470V	1/16W 47	1	
R6710	ERJ3GEYJ472V	1/16W 4.7K	1	
R6711,12	ERJ3GEYJ470V	1/16W 47	2	
R6713	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R6714	ERJ3GEYJ102V	1/16W 1K	1	
R6715,16	ERJ3GEY0R00A	1/16W 0	2	
R6717	ERJ3GEYJ470V	1/16W 47	1	
R6718	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R6719	ERJ3GEYJ470V	1/16W 47	1	
R6721-23	ERJ3GEY0R00A	1/16W 0	3	
R6724	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6725	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002

R6726	ERJ3GEYJ470V	1/16W 47	1	
R6727	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002
R6728-30	ERJ3GEYJ470V	1/16W 47	3	
R6731	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002
R6733,34	ERJ3GEYJ470V	1/16W 47	2	
R6735	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6736	ERJ3GEYJ102V	1/16W 1K	1	
R6740	ERJ3GEY0R00A	1/16W 0	1	
R6801	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R6805-14	ERJ3GEYJ223V	1/16W 22K	10	D0GB223JA002
R6815	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002
R6816	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R6817	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6818	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R6820	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6821,22	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R6823	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7001	ERDS2FJ391	1/4W 390	1	
R7002	ERDS2FJ330	1/4W 33	1	
R7003	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7004	ERJ3GEY0R00V	1/16W 0	1	
R7006,07	ERDS2FJ221	1/4W 220	2	
R7008-10	ERJ3GEYJ750	1/16W 75	3	
R7301	ERJ3GEY0R00V	1/16W 0	1	
R7304	ERJ3GEYJ101V	1/16W 100	1	
R7307	ERJ3GEY0R00V	1/16W 0	1	
R7309	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7311	ERJ3GEYJ221V	1/16W 220	1	
R7312,13	ERJ3GEYG221	1/16W 220	2	
R7314,15	ERJ3GEY0R00V	1/16W 0	2	
R7317	ERJ3GEY0R00V	1/16W 0	1	
R7319	ERJ3GEY0R00V	1/16W 0	1	
R7322	ERJ3GEY0R00V	1/16W 0	1	
R7324,25	ERJ3GEYJ101V	1/16W 100	2	
R7501	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R7502	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7503	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R7504	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7505	ERJ3GEYJ101V	1/16W 100	1	

R7508	ERJ3RBD273V	1/16W 27K	1	
R7510	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R7511	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7512	ERDS2FJ331	1/4W 330	1	
R7513	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7514	ERDS2FJ2R2	1/4W 2.2	1	
R7515	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R7516	ERJ3GEYJ101V	1/16W 100	1	
R7517	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002
R7518	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002
R7520	ERJ3GEYJ392V	1/16W 3.9K	1	
R7521	ERJ3GEYJ102V	1/16W 1K	1	
R7522	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002
R7523	ERJ3GEYG153V	1/16W 15K	1	
R7524	ERJ3GEYG152V	1/16W 1.5K	1	
R7525	ERJ3GEYG562V	1/16W 5.6K	1	
R7526	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7527	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R7528	ERJ3GEYJ472V	1/16W 4.7K	1	
R7529	ERJ3GEYJ182V	1/16W 1.8K	1	
R7530	ERJ3GEYJ102V	1/16W 1K	1	
R7531,32	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R7533,34	ERJ3GEYJ472V	1/16W 4.7K	2	
R7535	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7536	ERJ3GEYJ472V	1/16W 4.7K	1	
R7537	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7538	ERJ3GEYJ273V	1/16W 27K	1	D0GB273JA002
R7539	ERJ3GEYJ225V	1/16W 2.2M	1	
R7540	ERJ3GEYJ224V	1/16W 220K	1	D0GB224JA002
R7541	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002
R7542	ERJ3GEYJ221V	1/16W 220	1	
R7543	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002
R7544	ERJ3GEYJ101V	1/16W 100	1	
R7545	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7546	ERJ3GEYJ472V	1/16W 4.7K	1	
R7547	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7548	ERJ3GEY0R00V	1/16W 0	1	
R7549	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R7550	ERJ3GEY0R00V	1/16W 0	1	

R7551	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7552-54	ERJ3GEYJ101V	1/16W 100	3	
R7555	ERJ3GEYJ221V	1/16W 220	1	
R7556	ERJ3GEYJ472V	1/16W 4.7K	1	
R7557,58	ERJ3GEYJ101V	1/16W 100	2	
R7559	ERJ3GEYJ511	1/16W 510	1	
R7560,61	ERJ3GEYJ202V	1/16W 2K	2	
R7562	ERJ3GEYJ472V	1/16W 4.7K	1	
R7563-68	ERJ3GEYJ101V	1/16W 100	6	
R7569	ERJ3GEYJ472V	1/16W 4.7K	1	
R7570,71	ERJ3GEYJ221V	1/16W 220	2	
R7572,73	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R7574	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7575	ERJ3GEYG433	1/16W 43K	1	
R7576	ERJ3GEYG393V	1/16W 39K	1	
R7577-81	ERJ3GEYJ101V	1/16W 100	5	
R7582-85	ERJ3GEY0R00V	1/16W 0	4	
R7586	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7587,88	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R7589	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7590-92	ERJ3RBD822V	1/16W 8.2K	3	
R7593,94	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R7595	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7596	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7597	ERJ3GEYJ153V	1/16W 15K	1	
R7598	ERJ3GEYJ181V	1/16W 180	1	
R7599	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7600	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7601	ERJ3GEYJ821V	1/16W 820	1	
R7602	ERJ3GEYJ133V	1/16W 13K	1	
R7604,05	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R7607	ERJ3GEYJ472V	1/16W 4.7K	1	
R7608-10	ERJ3GEYJ223V	1/16W 22K	3	D0GB223JA002
R7611	ERJ3GEYJ101V	1/16W 100	1	
R7613,14	ERJ3GEYJ101V	1/16W 100	2	
R7616	ERJ3GEY0R00V	1/16W 0	1	
R7617	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7618	ERJ3GEYJ472V	1/16W 4.7K	1	
R7619-23	ERJ3GEYJ223V	1/16W 22K	5	D0GB223JA002

R7624	ERJ3GEYJ101V	1/16W 100	1	
R7625	ERDS2TJ392T	1/4W 3.9K	1	
R7701	ERJ3GEY0R00V	1/16W 0	1	(EB)
R7702	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7703	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002 (EB)
R7704,05	ERJ3GEYJ101V	1/16W 100	2	
R7706	ERJ3GEYJ100V	1/16W 10	1	(EB)
R7708	ERJ3GEYJ101V	1/16W 100	1	(EB)
R7708	ERJ3GEYJ471V	1/16W 470	1	(EG)(GN)
R7709	ERJ3GEYJ101V	1/16W 100	1	(EB)
R7709	ERJ3GEYJ471V	1/16W 470	1	(EG)(GN)
R7710,11	ERG2SJ561	2W 560	2	
R7712	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002
R7713,14	ERJ3GEYJ151V	1/16W 150	2	
R7715,16	ERJ3GEYJ101V	1/16W 100	2	
R7718-21	ERJ3GEYJ154V	1/16W 150K	4	
R7722	ERJ3GEYJ682V	1/16W 6.8K	1	D0GB682JA002
R7723	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R7724	ERJ3GEYJ154V	1/16W 150K	1	
R7725	ERJ3GEYJ682V	1/16W 6.8K	1	D0GB682JA002
R7726	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R7727	ERJ3GEYJ154V	1/16W 150K	1	
R7801	ERJ3RBD122V	1/16W 1.2K	1	
R7802	ERJ3RBD152V	1/16W 1.5K	1	
R7803	ERJ3RBD122V	1/16W 1.2K	1	
R7804	ERJ3RBD152V	1/16W 1.5K	1	
R7805	ERJ3RBD222V	1/16W 2.2K	1	
R7806	ERJ3RBD332V	1/16W 3.3K	1	
R7807	ERJ3RBD562V	1/16W 5.6K	1	
R7808	ERJ3RBD113V	1/16W 11K	1	
R7809	ERJ3RBD333V	1/16W 33K	1	
R7810	ERJ3RBD122V	1/16W 1.2K	1	
R7811	ERJ3RBD152V	1/16W 1.5K	1	
R7812	ERJ3RBD222V	1/16W 2.2K	1	
R7813	ERJ3RBD332V	1/16W 3.3K	1	
R7814	ERJ3RBD562V	1/16W 5.6K	1	
R7815	ERJ3RBD113V	1/16W 11K	1	
R7816	ERJ3RBD333V	1/16W 33K	1	
R7817,18	ERDS2FJ221	1/4W 220	2	





R7819	ERJ3RBD222V	1/16W 2.2K	1	
R7820	ERJ3RBD332V	1/16W 3.3K	1	
R7821	ERJ3RBD562V	1/16W 5.6K	1	
R7822	ERJ3RBD113V	1/16W 11K	1	
R9001	ERJ3GEYJ102V	1/16W 1K	1	
R9004	ERJ3GEYJ470V	1/16W 47	1	
R9008-10	ERJ3GEY0R00A	1/16W 0	3	
R9015	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R9016	ERJ3GEYJ102V	1/16W 1K	1	
R9902	ERJ3GEYJ102V	1/16W 1K	1	
R9903	ERJ3GEYF823V	1/16W 82K	1	
R9904	ERJ3GEYJ392V	1/16W 3.9K	1	
R9905	ERJ3GEYF103V	1/16W 10K	1	
R9906	ERJ3RBD471V	1/16W 470	1	
R9907	ERJ3RED300V	1/16W 30	1	
R9908	ERJ3RBD102V	1/16W 1K	1	
R9913	ERDS2FJ271	1/4W 270	1	
R37001-04	ERJ3RED560	1/16W 56	4	
R37005	ERJ3RBD512	1/16W 5.1K	1	
R37006	ERJ3GEYJ105V	1/16W 1M	1	
R37007	ERJ3RBD622	1/16W 6.2K	1	
R37008	ERJ3RBD181V	1/16W 180	1	
R37009	ERJ3GEYJ102V	1/16W 1K	1	
R37010-15	ERJ3GEY0R00A	1/16W 0	6	
R37016	ERJ3GEYJ102V	1/16W 1K	1	
R37017	ERJ3GEYJ472V	1/16W 4.7K	1	
R37018	ERJ3GEYJ105V	1/16W 1M	1	
R37019,20	ERJ3GEY0R00A	1/16W 0	2	
R37021	ERJ3GEYJ102V	1/16W 1K	1	
R37022	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R37024-27	ERJ3GEYJ470V	1/16W 47	4	
R37028	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002
R37029,30	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R37040-43	ERJ3GEYJ470V	1/16W 47	4	
R37044	ERJ3GEYJ221V	1/16W 220	1	
R37045	ERJ3GEYJ470V	1/16W 47	1	
R37046	ERJ3GEYJ102V	1/16W 1K	1	
R37047,48	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R37049	ERJ3GEYJ101V	1/16W 100	1	

R37050-52	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R37053	ERJ3GEY0R00A	1/16W 0	1	
R37054	ERJ3GEYJ472V	1/16W 4.7K	1	
R37055	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R37056	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R37057,58	ERJ3GEY0R00A	1/16W 0	2	
R37060	ERJ3GEYJ220V	1/16W 22	1	
R37061,62	ERJ3GEY0R00A	1/16W 0	2	
R37063	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R37064	ERJ3GEY0R00A	1/16W 0	1	
R37065	ERJ3GEYJ101V	1/16W 100	1	
R37066	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R37067	ERJ3GEY0R00A	1/16W 0	1	
R37068,69	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R37100	ERJ3GEYJ220V	1/16W 22	1	
R37103	ERJ3GEYJ220V	1/16W 22	1	
R37104-06	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R37109,10	ERJ3GEYJ101V	1/16W 100	2	
R50001	ERJ3GEYJ220V	1/16W 22	1	
R50002,03	ERJ3GEYJ470V	1/16W 47	2	
R50004	ERJ3GEYJ220V	1/16W 22	1	
R50005,06	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R50007-10	ERJ3GEYJ220V	1/16W 22	4	
R50012	ERJ3RBD122V	1/16W 1.2K	1	
R50013	ERJ3RBD273V	1/16W 27K	1	
R50014	ERJ3GEY0R00A	1/16W 0	1	
R50015	ERJ3RBD153V	1/16W 15K	1	
R50016	ERJ3GEY0R00A	1/16W 0	1	
R50017	ERJ3GEYJ390	1/16W 39	1	
R50018-20	ERJ3GEY0R00A	1/16W 0	3	
R50021	ERJ3GEYJ220V	1/16W 22	1	
R50022	ERJ3GEYJ102V	1/16W 1K	1	
R50023	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50024	ERJ3RED220	1/16W 22	1	
R50025	ERJ3RED750V	1/16W 75	1	
R50026	ERJ3GEYJ102V	1/16W 1K	1	
R50027	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50030	ERJ3RED750V	1/16W 75	1	
R50031	ERJ3GEYJ102V	1/16W 1K	1	

R50032	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50033	ERJ3GEY0R00A	1/16W 0	1	
R50034	ERJ3RED750V	1/16W 75	1	
R50035	ERJ3GEYJ102V	1/16W 1K	1	
R50036	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50037	ERJ3GEY0R00A	1/16W 0	1	
R50038	ERJ3RED750V	1/16W 75	1	
R50039	ERJ3GEYJ102V	1/16W 1K	1	
R50040	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50042	ERJ3RED750V	1/16W 75	1	
R50043	ERJ3RBD273V	1/16W 27K	1	
R50044-47	ERJ3GEY0R00A	1/16W 0	4	
R50048	ERJ3RBD182V	1/16W 1.8K	1	
R50049	ERJ3RBD223V	1/16W 22K	1	
R50050,51	ERJ3GEY0R00A	1/16W 0	2	
R50052-56	ERJ3GEYJ470V	1/16W 47	5	
R50057	ERJ3GEY0R00A	1/16W 0	1	
R50058,59	ERJ3GEYJ220V	1/16W 22	2	
R50060	ERJ3GEYJ470V	1/16W 47	1	
R50061	ERJ3GEY0R00A	1/16W 0	1	
RA3201-04	D1H82204A024	RESISTOR-RESISTOR	4	
RA3205-08	D1H83304A024	RESISTOR-RESISTOR	4	
RA3209,10	D1H82204A024	RESISTOR-RESISTOR	2	
RA3401-16	D1H82204A024	RESISTOR-RESISTOR	16	
RA3419-24	D1H81034A024	RESISTOR-RESISTOR	6	
RA3425-27	D1H82204A024	RESISTOR-RESISTOR	3	
RA3433	D1H82204A024	RESISTOR-RESISTOR	1	
RA3435,36	D1H82204A024	RESISTOR-RESISTOR	2	
RA3437,38	D1H81044A024	RESISTOR-RESISTOR	2	
RA3439-41	D1H82204A024	RESISTOR-RESISTOR	3	
RA3442-46	D1H81044A024	RESISTOR-RESISTOR	5	
RA6001-04	D1H84704A024	RESISTOR-RESISTOR	4	
RA6005	D1H83334A024	RESISTOR-RESISTOR	1	
RA6006	D1H84704A024	RESISTOR-RESISTOR	1	
RA6007	D1H83324A024	RESISTOR-RESISTOR	1	
RA6008	D1H83334A024	RESISTOR-RESISTOR	1	
RA6009-12	D1H83304A024	RESISTOR-RESISTOR	4	
RA6013-18	D1H84704A024	RESISTOR-RESISTOR	6	

RA6019,20	D1H83304A024	RESISTOR-RESISTOR	2	
RA6021	D1H81034A024	RESISTOR-RESISTOR	1	
RA6023	D1H84704A024	RESISTOR-RESISTOR	1	
RA6029	D1H86804A024	RESISTOR-RESISTOR	1	
RA6030-32	D1H83304A024	RESISTOR-RESISTOR	3	
RA6037	D1H83334A024	RESISTOR-RESISTOR	1	
RA6038	D1H83324A024	RESISTOR-RESISTOR	1	
RA6039	D1H84704A024	RESISTOR-RESISTOR	1	
RA6040-51	D1H83304A024	RESISTOR-RESISTOR	12	
RA6052	D1H84704A024	RESISTOR-RESISTOR	1	
RA6053-60	D1H83304A024	RESISTOR-RESISTOR	8	
RA6061,62	D1H83334A024	RESISTOR-RESISTOR	2	
RA6063-66	D1H84704A024	RESISTOR-RESISTOR	4	
RA6072	D1H84704A024	RESISTOR-RESISTOR	1	
RA6082	D1H83334A024	RESISTOR-RESISTOR	1	
RA6084	D1H83334A024	RESISTOR-RESISTOR	1	
RA6701-06	D1H84704A024	RESISTOR-RESISTOR	6	
RA6708	D1H83324A024	RESISTOR-RESISTOR	1	
RA6709-11	D1H81034A024	RESISTOR-RESISTOR	3	
RA6712	D1H84704A024	RESISTOR-RESISTOR	1	
RA6713	D1H81034A024	RESISTOR-RESISTOR	1	
RA6714	D1H82224A024	RESISTOR-RESISTOR	1	
RA6715-18	D1H83324A024	RESISTOR-RESISTOR	4	
RA6719-23	D1H84704A024	RESISTOR-RESISTOR	5	
RA6724	D1H81034A024	RESISTOR-RESISTOR	1	
RA6725-30	D1H84704A024	RESISTOR-RESISTOR	6	
RA6731-36	D1H86804A024	RESISTOR-RESISTOR	6	
RA6737,38	D1H81034A024	RESISTOR-RESISTOR	2	
RA6739,40	D1H83304A024	RESISTOR-RESISTOR	2	
RA6741	D1H84704A024	RESISTOR-RESISTOR	1	
RA37001	D1H81034A024	RESISTOR-RESISTOR	1	
RA37002	D1H81034A024	RESISTOR-RESISTOR	1	
RA37003	D1H81034A024	RESISTOR-RESISTOR	1	
RA37006	D1H82204A024	RESISTOR-RESISTOR	1	
RA37007	D1H82204A024	RESISTOR-RESISTOR	1	
RA37008	D1H82204A024	RESISTOR-RESISTOR	1	
RA37009	D1H82204A024	RESISTOR-RESISTOR	1	
RA37010	D1H82204A024	RESISTOR-RESISTOR	1	
RA37011	D1H82204A024	RESISTOR-RESISTOR	1	

RA37012	D1H82204A024	RESISTOR-RESISTOR	1	
RA37013	D1H82204A024	RESISTOR-RESISTOR	1	
RA37014	D1H82204A024	RESISTOR-RESISTOR	1	
RA50009	D1H82204A024	RESISTOR-RESISTOR	1	
RA50010	D1H82204A024	RESISTOR-RESISTOR	1	
RA50011	D1H82204A024	RESISTOR-RESISTOR	1	
RA50012	D1H82204A024	RESISTOR-RESISTOR	1	
RA50013	D1H82204A024	RESISTOR-RESISTOR	1	
RA50014	D1H82204A024	RESISTOR-RESISTOR	1	
RA50015	D1H82204A024	RESISTOR-RESISTOR	1	
RA50016	D1H82204A024	RESISTOR-RESISTOR	1	
RA50017	D1H81034A024	RESISTOR-RESISTOR	1	
RA50018	D1H82204A024	RESISTOR-RESISTOR	1	
RA50019	D1H82204A024	RESISTOR-RESISTOR	1	
RA50020	D1H82204A024	RESISTOR-RESISTOR	1	
RA50021	D1H82204A024	RESISTOR-RESISTOR	1	
RA50022	D1H82204A024	RESISTOR-RESISTOR	1	
RA50023	D1H82204A024	RESISTOR-RESISTOR	1	
RA50024	D1H82204A024	RESISTOR-RESISTOR	1	
RA50025	D1H82204A024	RESISTOR-RESISTOR	1	
RA50026	D1H84704A024	RESISTOR-RESISTOR	1	
RA50027	D1H84704A024	RESISTOR-RESISTOR	1	
RA50028	D1H84704A024	RESISTOR-RESISTOR	1	
RA50029	D1H84704A024	RESISTOR-RESISTOR	1	
RX6801-06	D1H83304A024	RESISTOR-RESISTOR	6	
RX6807	D1H84734A024	RESISTOR-RESISTOR	1	
RX6808,09	D1H83304A024	RESISTOR-RESISTOR	2	
RX6810	D1H84734A024	RESISTOR-RESISTOR	1	
RX6811,12	D1H83304A024	RESISTOR-RESISTOR	2	
RX6818-20	D1H83304A024	RESISTOR-RESISTOR	3	
S7001	EVQ11G07K	SWITCH(POWER)	1	
S7002	K0H1BA000332	SWITCH(HDD)	1	
S7801	K0L1BA000056	SWITCH(TRAY)	1	
S7802	EVQ11G07K	SWITCH(RETURN)	1	
S7803	EVQ11G07K	SWITCH(PAUSE)	1	
S7804	EVQ11G07K	SWITCH(PLAY)	1	
S7805	EVQ11G07K	SWITCH(OPEN/CLOSE)	1	

S7806	EVQ11G07K	SWITCH(CH UP)	1	
S7807	EVQ11G07K	SWITCH(SKIP F)	1	
S7808	EVQ11G07K	SWITCH(FUNCTIONS)	1	
S7809	EVQ11G07K	SWITCH(TIMER REC)	1	
S7810	EVQ11G07K	SWITCH(STOP)	1	
S7811	EVQ11G07K	SWITCH(CH DOWN)	1	
S7812	EVQ11G07K	SWITCH(SKIP R)	1	
S7813	EVQ11G07K	SWITCH(EXT LINK)	1	
S7814	EVQ11G07K	SWITCH(REC)	1	
S7815	EVQ11G07K	SWITCH(REC MODE)	1	
S7816	EVQ11G07K	SWITCH(TIME SLIP)	1	
S7817	K0H1BA000332	SWITCH(DVD)	1	
S7901	K0C115A00002	SWITCH(ENTER)	1	
T001	ETB28BF1K8A	TRANSFORMER	1	
T0701	EQV5EC082P	TRANSFORMER	1	(EG)(GN) 
T0701	EQV5EC083P	TRANSFORMER	1	(EB) 
T7501	ETS13TB119AP	TRANSFORMER	1	
T37001	J0JBD0000030	TRANSFORMER	1	
TH001	NC21F104J	THERMISTOR	1	
TU7701	ENG47327G1	TUNER PACK	1	(EG)(GN)
TU7701	ENG47328G1	TUNER PACK	1	(EB)
VC3516,17	ECRLA030E53R	VR	2	
VR102	EVMEASA01B52	V.R.	1	
VR0701	EVNCYAA03B14	10K	1	
VR3501	EVMECSA00B14	V.RESISTOR 10K	1	
W2	ERJ3GEY0R00V	1/16W 0	1	
W6,W7	ERJ3GEY0R00V	1/16W 0	2	
W10,11	ERJ3GEY0R00V	1/16W 0	2	
W13	ERJ3GEY0R00V	1/16W 0	1	
W20,21	ERJ3GEY0R00V	1/16W 0	2	
W23	ERJ3GEY0R00V	1/16W 0	1	
W237	ERJ3GEY0R00V	1/16W 0	1	

W444	ERJ3GEY0R00V	1/16W 0	1	
W449	ERJ3GEY0R00V	1/16W 0	1	
W501	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W501	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W502	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W502	ERJ8GEY0R00V	1/8W 0	1	VIF DECODER P.C.B.
W503	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W503	ERJ8GEY0R00V	1/8W 0	1	VIF DECODER P.C.B.
W504	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W504	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W505	ERJ3GEY0R00V	1/16W 0	1	
W506	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W506	ERJ8GEY0R00V	1/8W 0	1	VIF DECODER P.C.B.
W507	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W507	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W508	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W508	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W509	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W509	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W510	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W510	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W511	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W511	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W512	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W512	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W513	ERJ6GEY0R00V	1/10W 0	1	
W514	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W514	ERJ8GEY0R00V	1/8W 0	1	VIF DECODER P.C.B.
W515	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W515	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W516	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W516	ERJ8GEY0R00V	1/8W 0	1	VIF DECODER P.C.B.
W517	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W517	ERJ8GEY0R00V	1/8W 0	1	VIF DECODER P.C.B.
W518-21	ERJ3GEY0R00V	1/16W 0	4	
W522	ERJ6GEY0R00V	1/10W 0	1	
X0701	VLF1416	FILTER	1	J0B4045A0002 (EG)(GN)
X0701	VLF1417	FILTER	1	J0B4155A0003 (EB)

X0704	VLF1493	CRYSTAL OSCILLATOR	1	(EG)(GN)
X0704	VLF1495	CRYSTAL OSCILLATOR	1	(EB)
X3201	H1C2705B0009	CRYSTAL OSCILLATOR	1	
X3401	H2D400500001	CRYSTAL OSCILLATOR	1	
X3501	H0D443400037	CRYSTAL OSCILLATOR	1	
X6001	H0J300500005	CRYSTAL OSCILLATOR	1	
X7301	H0D245500016	CRYSTAL OSCILLATOR	1	
X7501	H0D443400035	CRYSTAL OSCILLATOR	1	
X7502	H0A327200078	CRYSTAL OSCILLATOR	1	
X7503	VSX1043-T	CRYSTAL OSCILLATOR	1	H0D100500006
X37001	H0J245500020	CRYSTAL OSCILLATOR	1	H0J245500025
Z002	ERZVGAD471	V.R.	1	
ZA3901-04	VMC1450	EARTH PLATE	4	
ZA7001	VJR0978	EARTH ANGLE	1	K9ZZ00000424
ZA9001	VJR0978	EARTH ANGLE	1	K9ZZ00000424
ZA9003	VJR0978	EARTH ANGLE	1	K9ZZ00000424
ZA9004	VJR0978	EARTH ANGLE	1	K9ZZ00000424
ZA9005	VJR0978	EARTH ANGLE	1	K9ZZ00000424
ZD001	MA8270	DIODE	1	
ZD002	RD91EB	DIODE	1	
ZD003,04	MA8300	DIODE	2	
ZD101	MA8039	DIODE	1	
ZD102	MA8027	DIODE	1	
ZD104	MA8051	DIODE	1	
ZD301,02	MAZ8051	DIODE	2	
ZD304	MA8051	DIODE	1	

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19 Schematic Diagram for printing with A4

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20.1 Change of Replacement Parts List

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20.1.1 Change of Replacement Parts List

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DMR-E20EB/EB1/EG/EG1

Ref. No.	Part No.		Pcs	Part Name & Description	Remarks
	Original	New			
A1	N2QAKB000011	N2QAKB000037	1	REMOTE CONTROL ASS`Y	DMR-E20EG/EG1 ONLY
A1	N2QAKB000011	N2QAKB000038	1	REMOTE CONTROL ASS`Y	DMR-E20EB/EB1 ONLY
IC3901	LA73026	C1AB00001476	1	IC	
IC7508	C3FBKC000080	C3FBKC000088	1	IC	
F001	215 2A	K5Y202B00001	1	FUSE	

DMR-E20GH/GCS/GN

Ref. No.	Part No.		Pcs	Part Name & Description	Remarks
	Original	New			
A1	N2QAKB000011	N2QAKB000038	1	REMOTE CONTROL ASS`Y	DMR-E20GH ONLY
IC7508	C3FBKC000085	C3FBKC000088	1	IC	
F001	215 2A	K5Y202B00001	1	FUSE	

DMR-E30EB/EB1/EG/EG1/GCS/GN/GH

Ref. No.	Part No.		Pcs	Part Name & Description	Remarks
	Original	New			
IC7502	C2CBJG000265	C2CBJG000280	1	IC	DMR-E30EB/EG ONLY
IC7502	C2CBJG000264	C2CBJG000280	1	IC	DMR-E30GCS/GN/GH ONLY

DMR-E30PP/PL/T3030P

Ref. No.	Part No.		Pcs	Part Name & Description	Remarks
	Original	New			
D115	M1F60	D1F60	1	DIODE	DMR-E30PP/PL ONLY
D116	M1F60	D1F60	1	DIODE	DMR-E30PP/PL ONLY

13	RYQ0383-K	RYQ0402-K	2	LEG	
14	RKA0137-K	RKA0144-K	2	FOOT RUBBER	
19	VMA0N83A	---	-	SIDE ANGLE	DMR-E30PP ONLY(Deletion)

DMR-HS2EB/EB1/EG/EG1/GN

Ref. No.	Part No.		Pcs	Part Name & Description	Remarks
	Original	New			
D104	YG802C06R	YG802C06	1	DIODE	DMR-HS2EB ONLY
IC7502	C2CBJG000264	C2CBJG000280	1	IC	
37-12	RKF0644C-S	RKF0644C-S1	1	DOOR(L)	DMR-HS2EB ONLY

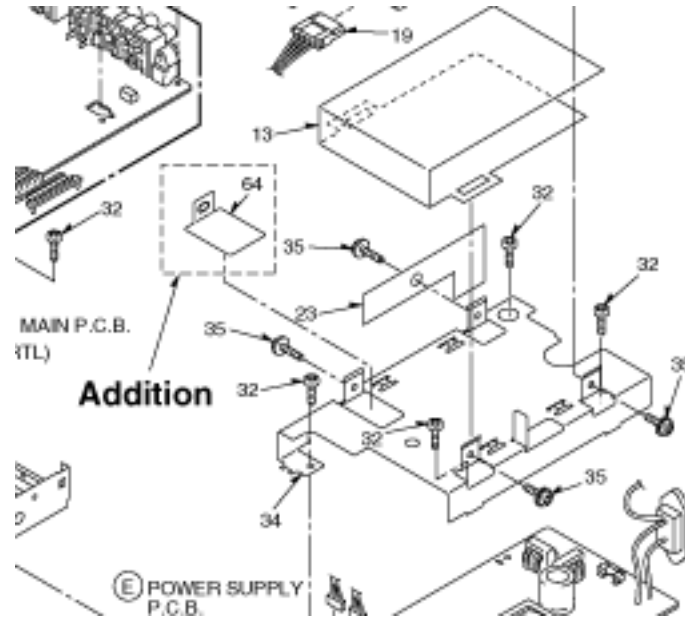
DMR-T3040P

Ref. No.	Part No.		Pcs	Part Name & Description	Remarks
	Original	New			
11	VXA7512	VXA7527	1	PC CARD ANGLE	
64	---	RMC0542	1	HDD BRACKET SPRING	Addition

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20.1.2 EXPLODED VIEW (DMR-T3040P ONLY)

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20.2 Change of DOOR ASS'Y

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20.2.1 Change of Replacement Parts List

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DMR-E20D-S,K

Ref. No.	Part No.		Pcs	Part Name & Description	Remarks
	Original	New			
35	RYF0603A-S	---	0	DOOR ASS'Y	(S) Deletion
35	RYF0603D-K	---	0	DOOR ASS'Y	(K) Deletion
35-1	VMC1544	---	0	EARTH SPRING (D)	Deletion
35-2	XQN2+AG4	---	0	SCREW	Deletion
35-3	VGQ5334	---	0	SHAFT GUIDE (R)	Deletion
35-4	VGQ5427	---	0	CLICK PIECE	Deletion
80	---	RGP0882-S1	1	DOOR PANEL	(S) Addition
80	---	RGP0882A-K1	1	DOOR PANEL	(K) Addition
81	---	RGK1429A-Q1	1	DOOR ORNAMENT	(S) Addition
81	---	RGK1429D-K1	1	DOOR ORNAMENT	(K) Addition
82	---	RMA1488-2	1	DOOR ANGLE	Addition
83	---	VGQ5334	1	SHAFT GUIDE (R)	Addition
84	---	VGQ5427	1	CLICK PIECE	Addition
85	---	VMC1544	1	EARTH SPRING (D)	Addition
86	---	XQN2+AG4	2	SCREW	Addition

DMR-E20EG/EB

Ref. No.	Part No.		Pcs	Part Name & Description	Remarks
	Original	New			
35	RYF0603B-S	---	0	DOOR ASS'Y	(EG) Deletion
35	RYF0603C-S	---	0	DOOR ASS'Y	(EB) Deletion
35-1	VMC1544	---	0	EARTH SPRING (D)	Deletion
35-2	XQN2+AG4	---	0	SCREW	Deletion
35-3	VGQ5334	---	0	SHAFT GUIDE (R)	Deletion
35-4	VGQ5427	---	0	CLICK PIECE	Deletion
80	---	RGP0882-S1	1	DOOR PANEL	Addition
81	---	RGK1429B-Q1	1	DOOR ORNAMENT	(EG) Addition

81	---	RGK1429C-Q1	1	DOOR ORNAMENT	(EB) Addition
82	---	RMA1488-2	1	DOOR ANGLE	Addition
83	---	VGQ5334	1	SHAFT GUIDE (R)	Addition
84	---	VGQ5427	1	CLICK PIECE	Addition
85	---	VMC1544	1	EARTH SPRING (D)	Addition
86	---	XQN2+AG4	2	SCWEW	Addition

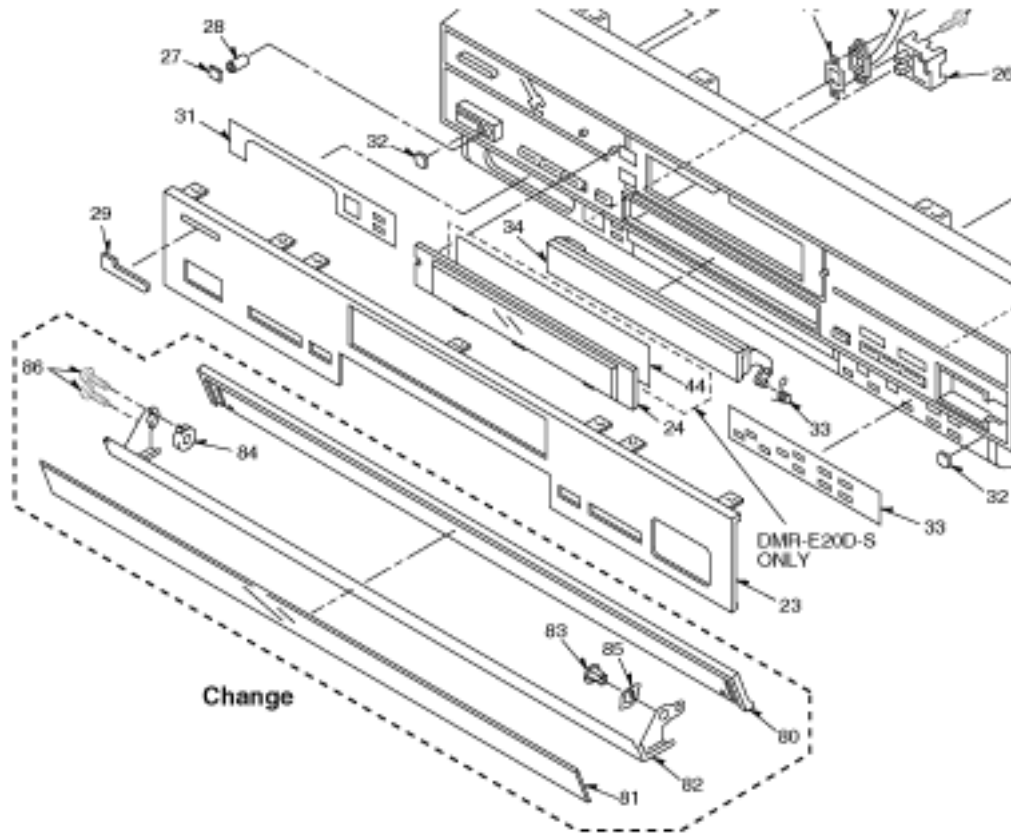
[DMR-E20GH/GCS/GN](#)

Ref. No.	Part No.		Pcs	Part Name & Description	Remarks
	Original	New			
35	RYP0603E-S	---	0	DOOR ASS'Y	(GCS)(GN) Deletion
35	RYP0603F-S	---	0	DOOR ASS'Y	(GH) Deletion
35-1	VMC1544	---	0	EARTH SPRING (D)	Deletion
35-2	XQN2+AG4	---	0	SCREW	Deletion
35-3	VGQ5334	---	0	SHAFT GUIDE (R)	Deletion
35-4	VGQ5427	---	0	CLICK PIECE	Deletion
80	---	RGP0882-S1	1	DOOR PANEL	Addition
81	---	RGK1429E-Q1	1	DOOR ORNAMENT	(GCS)(GN) Addition
81	---	RGK1429F-Q1	1	DOOR ORNAMENT	(GH) Addition
82	---	RMA1488-2	1	DOOR ANGLE	Addition
83	---	VGQ5334	1	SHAFT GUIDE (R)	Addition
84	---	VGQ5427	1	CLICK PIECE	Addition
85	---	VMC1544	1	EARTH SPRING (D)	Addition
86	---	XQN2+AG4	2	SCWEW	Addition

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20.2.2 EXPLODED VIEW

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20.3 Change of FFC (DMR-E30PP/PL/T-3030P)

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20.3.1 Change of Replacement Parts List

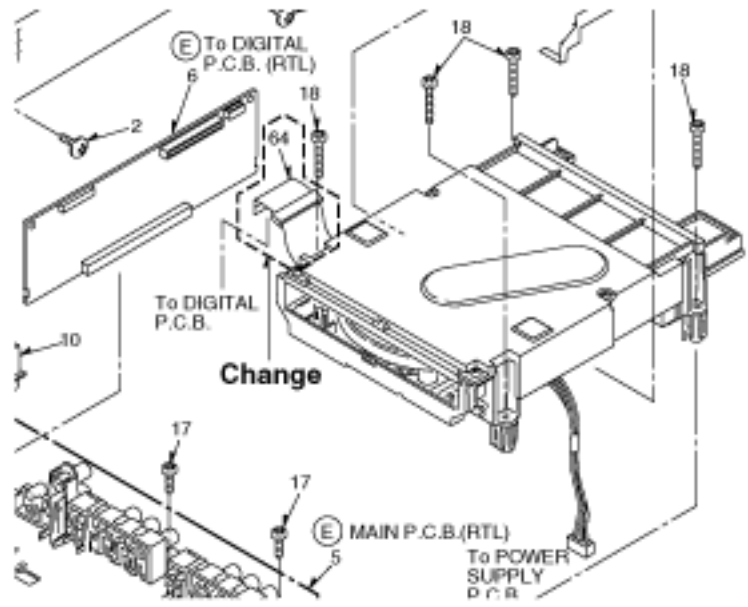
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Ref. No.	Part No.		Pcs	Part Name & Description	Remarks
	Original	New			
7	VEK9825	---	0	FFC(40P)	Deletion
63	J0KD00000059	---	0	FERRITE CORE	Deletion
64	---	VEK9825	1	FFC(40P)	

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20.3.2 EXPLODED VIEW




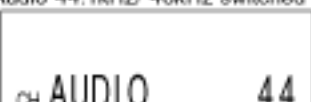





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20.4 Correction of Special modes at a glance (DMR-E30PP/PL/T3030P, DMR-HS2PP/T3040P)

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Item			FL display	Key operation	
Mode	Mode name	Description		Main unit Key	Remote controller key
Service mode	15. Magenta picture output	Magenta picture output from AV decoder Magenta picture (Chroma: 100%) Switching enabled by subcommand "IP switch"	Initialization mode (Interlace) 	—	[1] [2] while in service mode
			Progressive/ Interlace switched 	—	[1] [4] while in Magenta picture mode *I←→P Toggle switched.
	16. Audio pattern output	Audio pattern output of internal memory 1KHz ± 0dB (AC3 5.1ch sine wave)	Initialization (Audio 48kHz) 	—	[2] [3] while in service mode
			Audio 44.1kHz/ 48kHz switched 	—	[2] [4] while in Audio pattern output mode *48k←→44k Toggle switched.
	17. IP switching	"Interlace" and "Progressive" are switched. Initial setting is "Interlace". (This command is effective when performing 14 and 15.)	Initialization mode  Progressive 	—	[1] [4] while in service mode *I←→P Toggle switched.
	18. FACTORY MODE1	Region setting is done for the drive at its replacement by starting up the process mode 1. Turn the power off (POWER key on main unit or remote controller) to end the FACT MODE1.		[SKIP(R)] + [PAUSE] + [OPEN/CLOSE] while power is off	—
	19. Tray OPEN/CLOSE	The RAM drive tray is opened and closed repeatedly.	 *FL display of the CYCLE count out.	—	[9] [1] while in service mode *AC power should be turned off to release this operation.
	20. RAM drive error	Error codes for the RAM drive are displayed.		—	[3] [2] while in service mode

last

[4] [2]

Addition

last


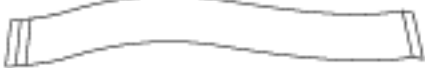




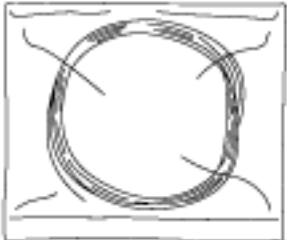

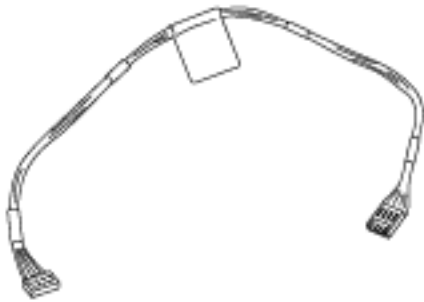
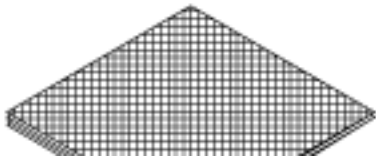

[4][2]

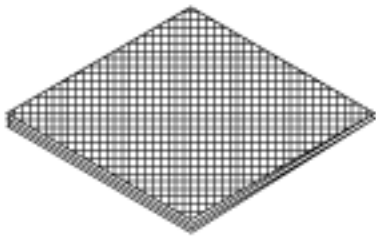
Addition

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20.5 Correction of Extension cable (DMR-HS2 Series)

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<p>Power supply P.C.B. - Main P.C.B. extension cable (23-pin)</p>  <p>RFKZ0124</p>	<p>RAM drive- Digital P.C.B. extension cable (40-pin)</p>  <p>RFKZ0125</p>	<p>RAM drive- Power supply P.C.B. extension cable (4-pin)</p>  <p>RFKZ0126</p>
<p>Digital extension P.C.B.</p>  <p>RFKZ0127</p>	<p>FAN short connector (3-pin)</p>  <p>RFKZ0128</p>	<p>Eject pin</p>  <p>JZS0484</p>
<p>Pb free solder</p>  <p>VUA7090A03E (0.3 mm × 3 m) VUA7090A06E (0.6 mm × 3 m)</p>	<p>Main P.C.B. - PC Card P.C.B. extension cable (5-pin)</p>  <p>RFKZ0142</p>	<p>HDD - Power supply P.C.B. extension cable (4-pin)</p>  <p>VFKZ1675</p>
<p>Rubber mat</p> 	<p>RGB extension P.C.B.</p> 	<p>VFK1675</p>



RFKZ0144



RFKZ0146

[TOP](#) [PREVIOUS](#) [NEXT](#)

21 Additional Contents 2

[TOP](#) [PREVIOUS](#) [NEXT](#)

[21.1 Correction of Part Name \(DMR-E30 and DMR-T3030 only\)](#)

[21.2 Changes of Replacement Parts List \(DMR-HS2series only\)](#)

[21.3 Exploded View \(only changing parts for DMR-HS2\)](#)

[TOP](#) [PREVIOUS](#) [NEXT](#)

21.1 Correction of Part Name (DMR-E30 and DMR-T3030 only)

[TOP](#) [PREVIOUS](#) [NEXT](#)

Since the Part Name of IR7002 was wrong and written on original Service Manual, we correct it.

Ref. No.	Parts No.	Part Name & Description	Pcs.	Remarks
IR7002	C9ZZ00000015	NC-JUMPPER WIRE (0.5, 5.0mm)	1	



Ref. No.	Parts No.	Part Name & Description	Pcs.	Remarks
IR7002	C9ZZ00000015	[REMOTE SENSOR]	1	

[TOP](#) [PREVIOUS](#) [NEXT](#)

21.2 Changes of Replacement Parts List (DMR-HS2series only)

[TOP](#) [PREVIOUS](#) [NEXT](#)

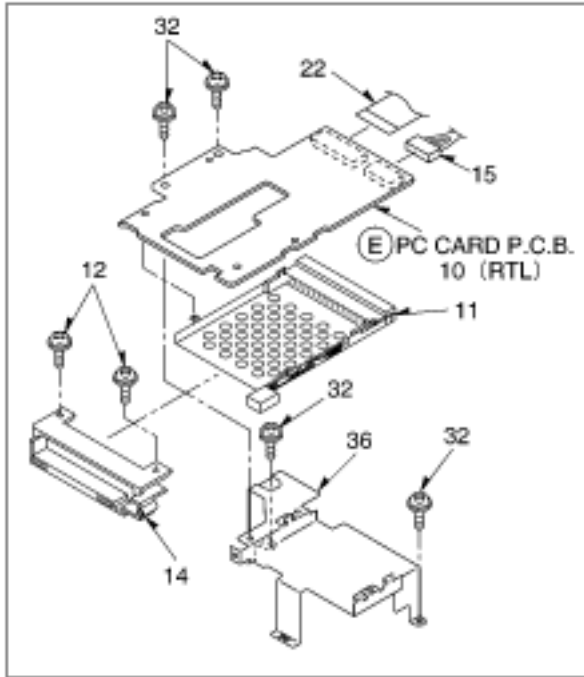
Ref. No.	Change of Parts No.		Part Name & Description	Pcs.	Remarks
	Original	New			
9	N3CBBRB00012	-----	HARD DISK DRIVE ASS'Y	1	Deletion
10-1	-----	VXA7512	ANGLE	1	Addition
10-2	-----	XYN2+F6	CLAMP PLATE	1	Addition
10-3	-----	RMR1481-K	PC CARD HOLDER	1	Addition
10-4	-----	VEK9904	WIRE WITH CONNEDTOR (5P)	1	Addition
11	VXA7512	-----	ANGLE	1	Deletion
12	XYN2+F6	-----	SCREW	1	Deletion
14	RMR1481-K	-----	PC CARD HOLDER	1	Deletion
15	VEK9904	-----	WIRE WITH CONNECTOR (5P)	1	Deletion
35	XSN6-32+48FY	-----	SCREW	4	Deletion
63	-----	RFKV0022KIT	HDD ASS'Y	1	Addition
63-1	-----	RFKV0021KIT	HDD ANGLE ASS'Y	1	Addition
63-2	-----	N3CBBRL00002	HARD DISK DRIVE	1	Addition

[TOP](#) [PREVIOUS](#) [NEXT](#)

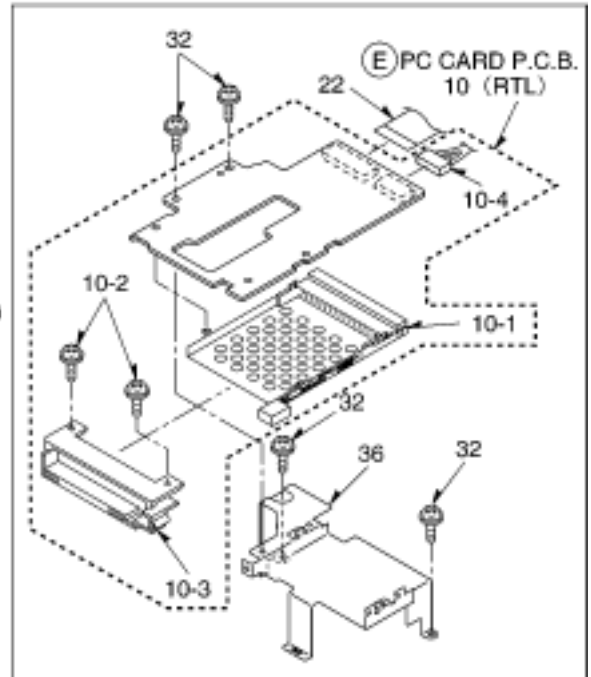
21.3 Exploded View (only changing parts for DMR-HS2)

[TOP PREVIOUS](#)

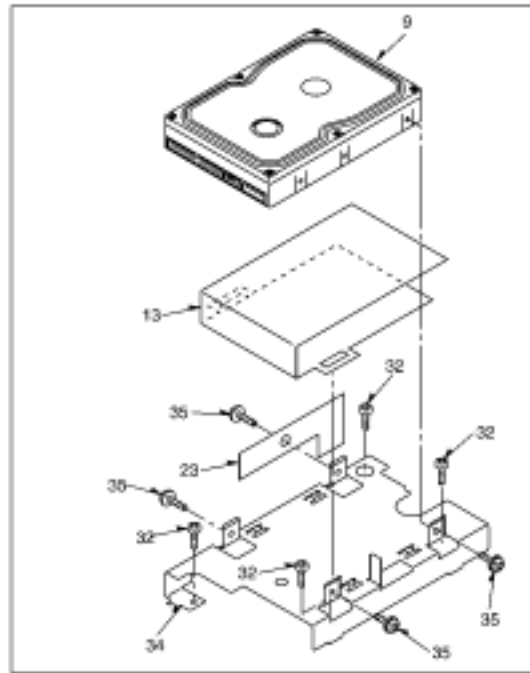
<Old>



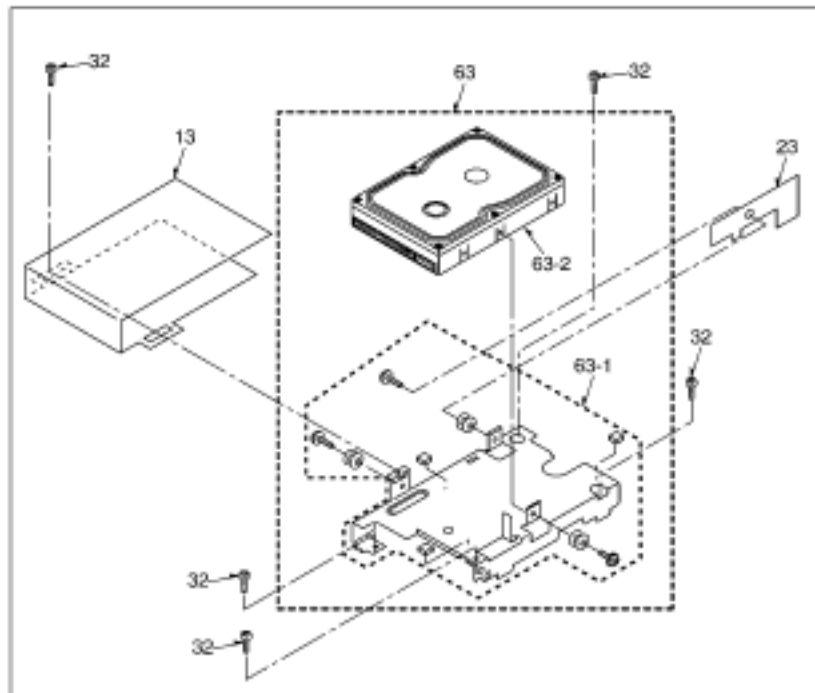
<New>



<Old>



<New>



<Caution>

If abnormal sound from HDD is occurred, please give the following correspondence.

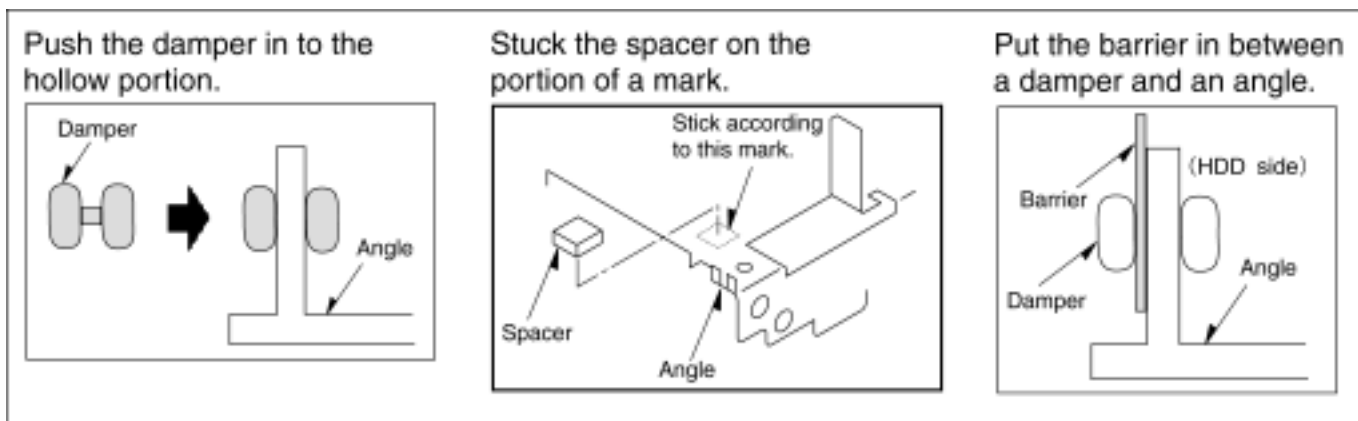
1, Using old parts (HDD ANGLE and HDD, refer to above figure).

Please change the parts for Ref. No. 63, "HDD ASS'Y" (Part No. RFKV0022KIT).

2, Using new parts (HDD ANGLE ASS'Y and HDD, refer to above figure).

Please change the parts for Ref. No. 63-2, "HARD DISK DRIVE" (Part No. N3CBBRL00002).

<Angle attachment specification>

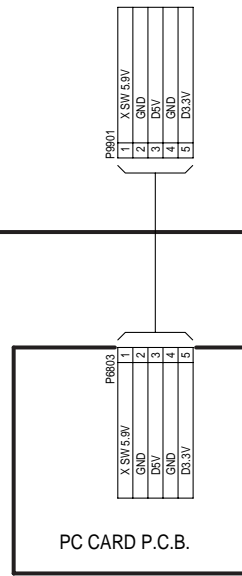
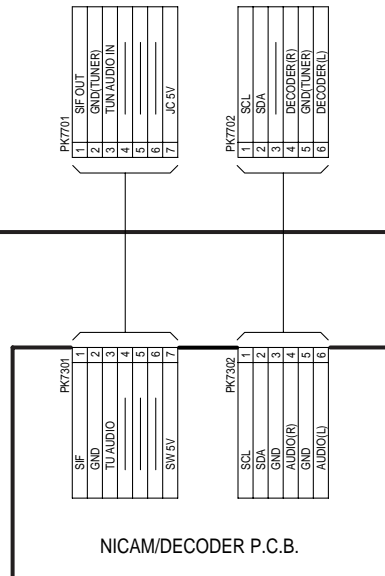
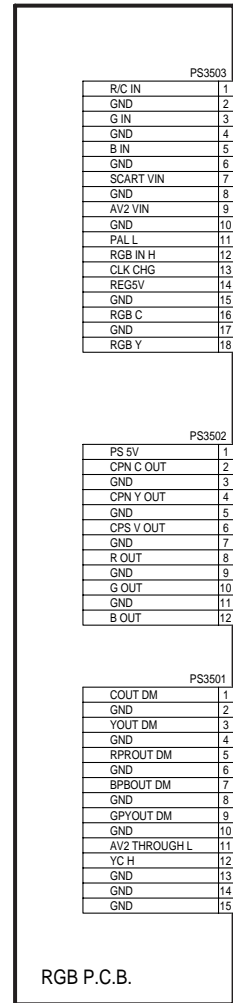
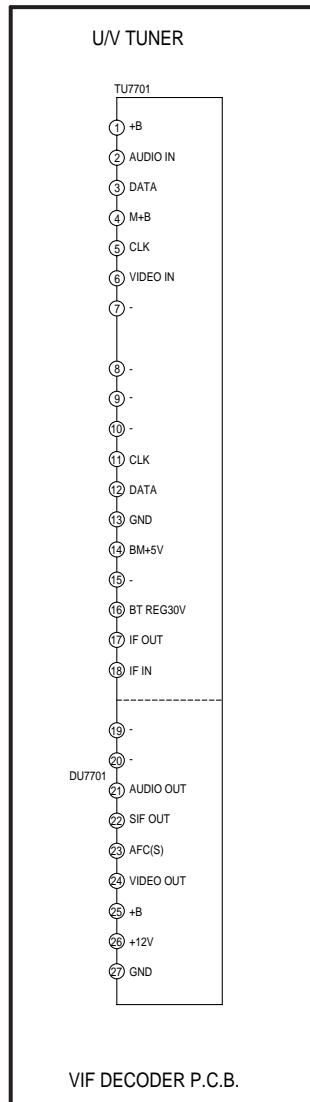
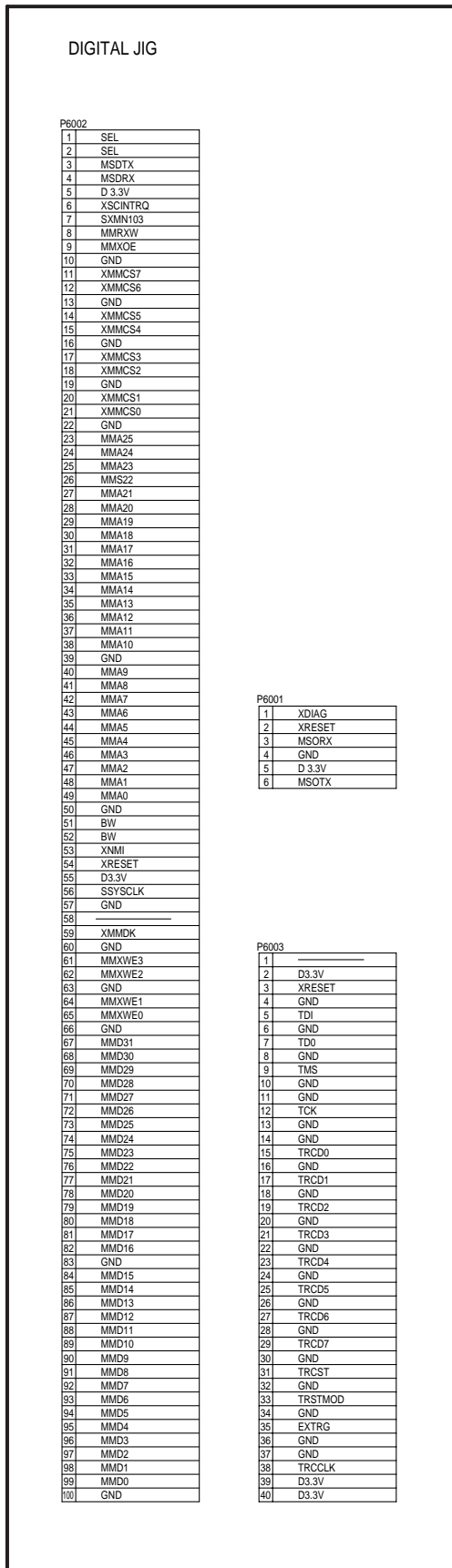


[TOP PREVIOUS](#)

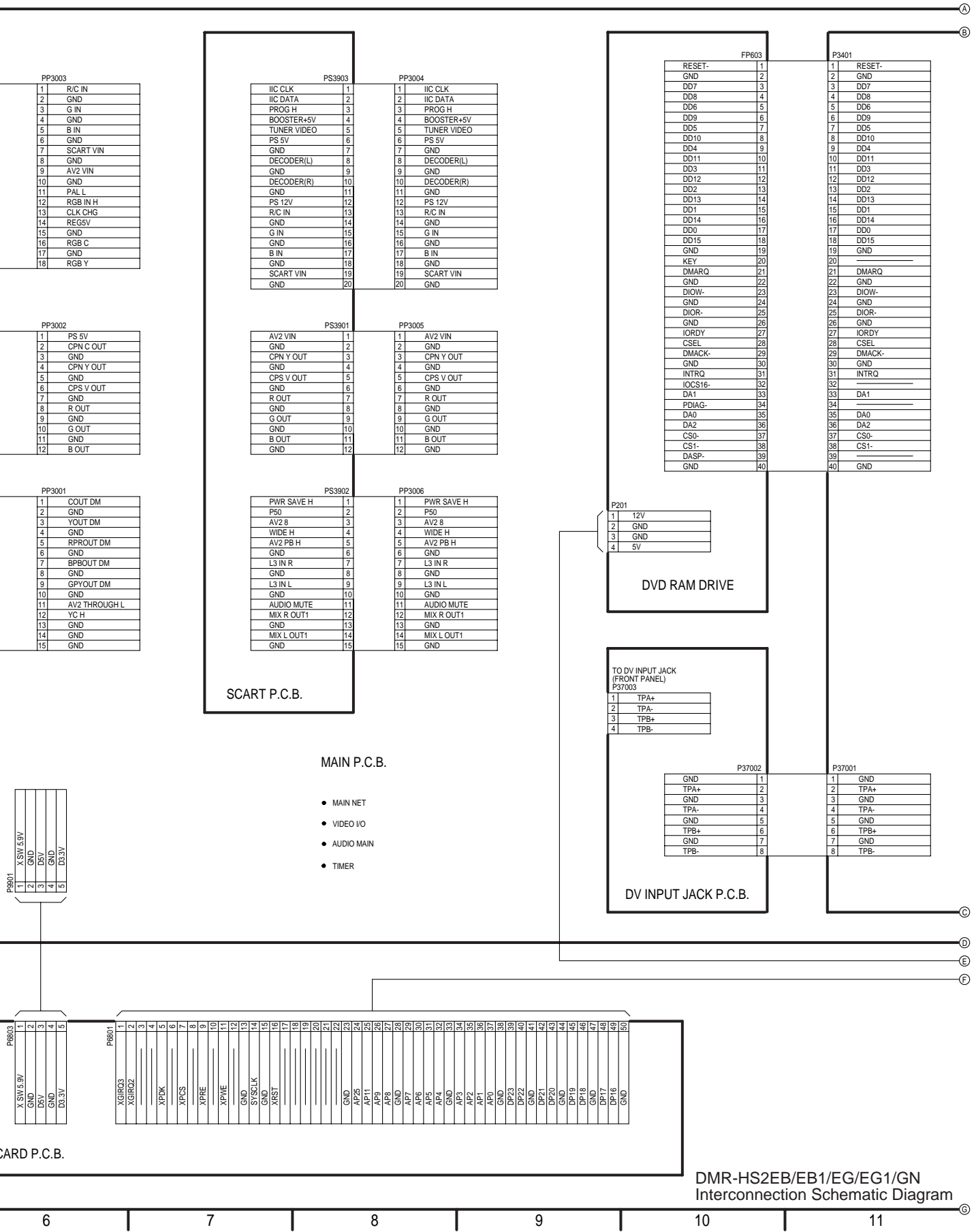
15 Schematic Diagram

15.1. Interconnection Schematic Diagram

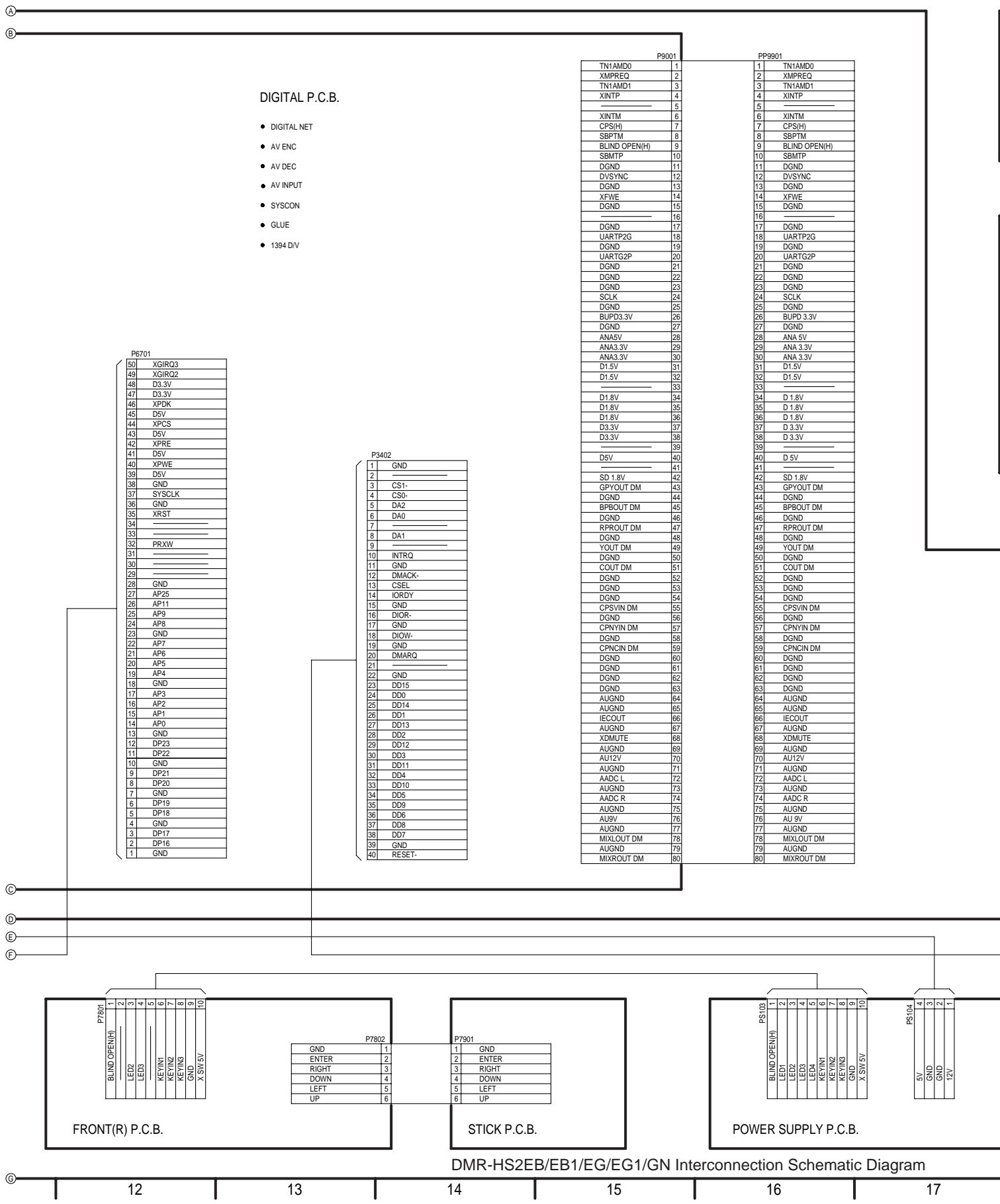
G
F
E
D
C
B
A

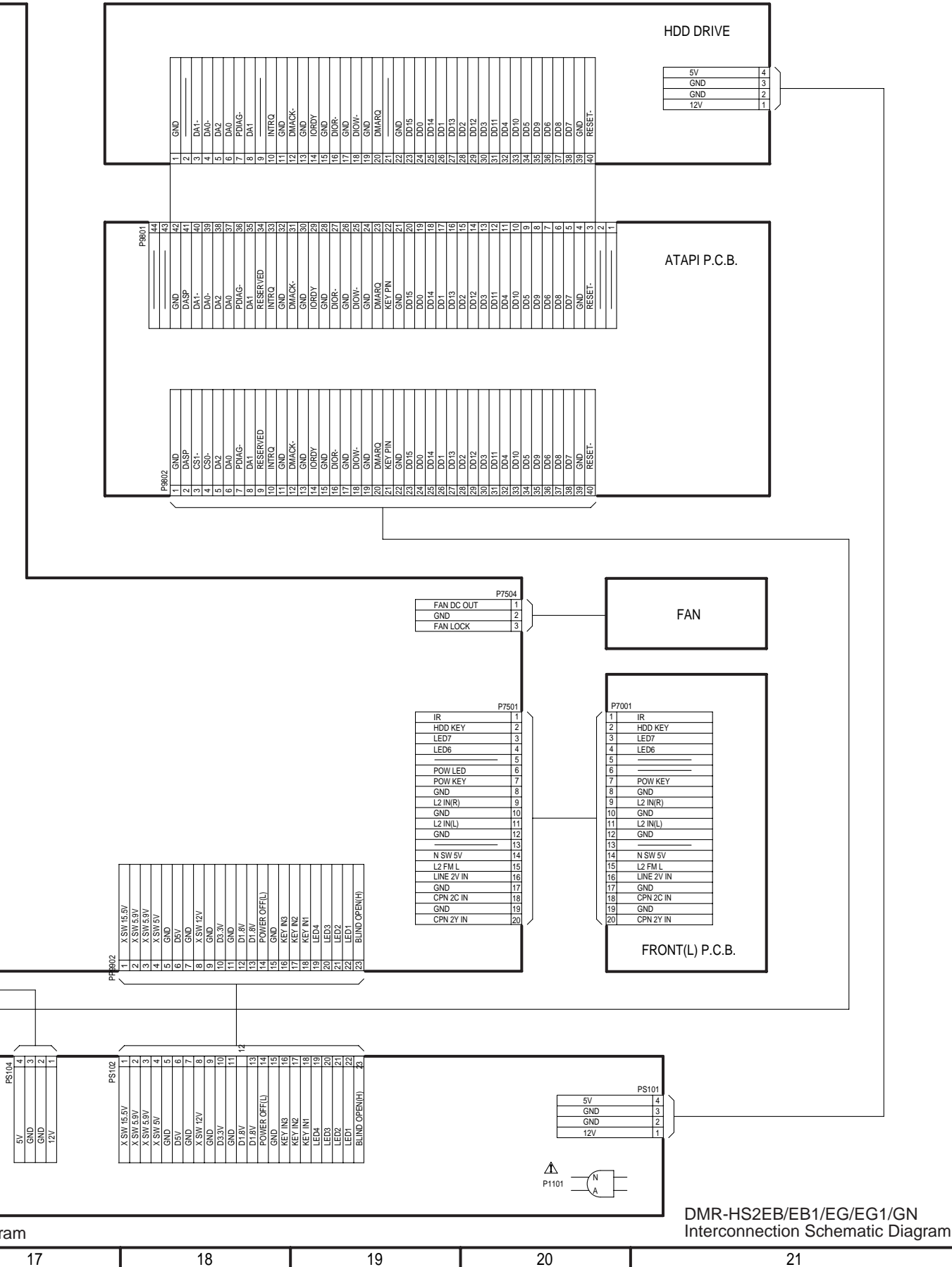


1 2 3 4 5 6



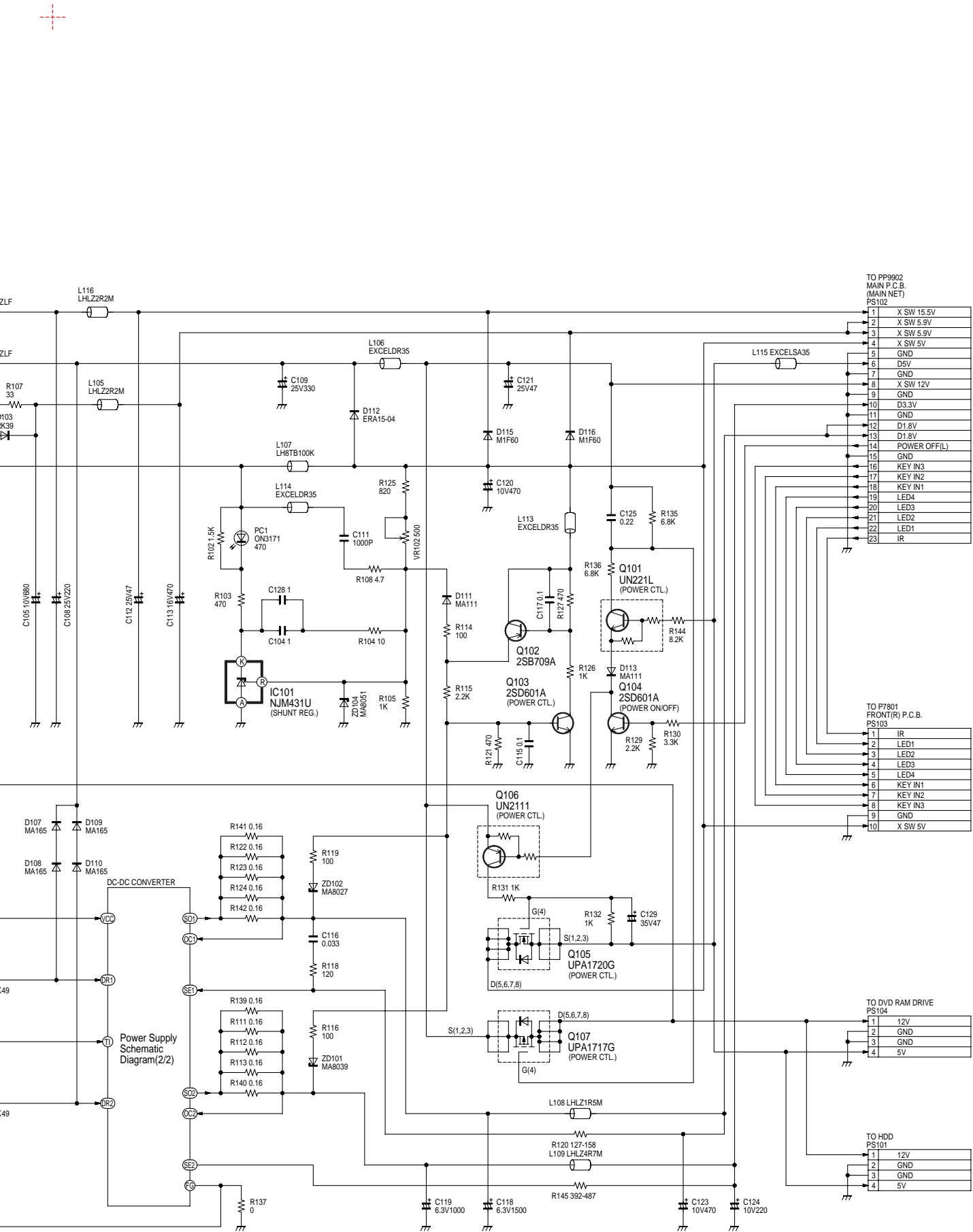
DMR-HS2EB/EB1/EG/EG1/GN Interconnection Schematic Diagram





DMR-HS2EB/EB1/EG/EG1/GN Interconnection Schematic Diagram

17 | 18 | 19 | 20 | 21

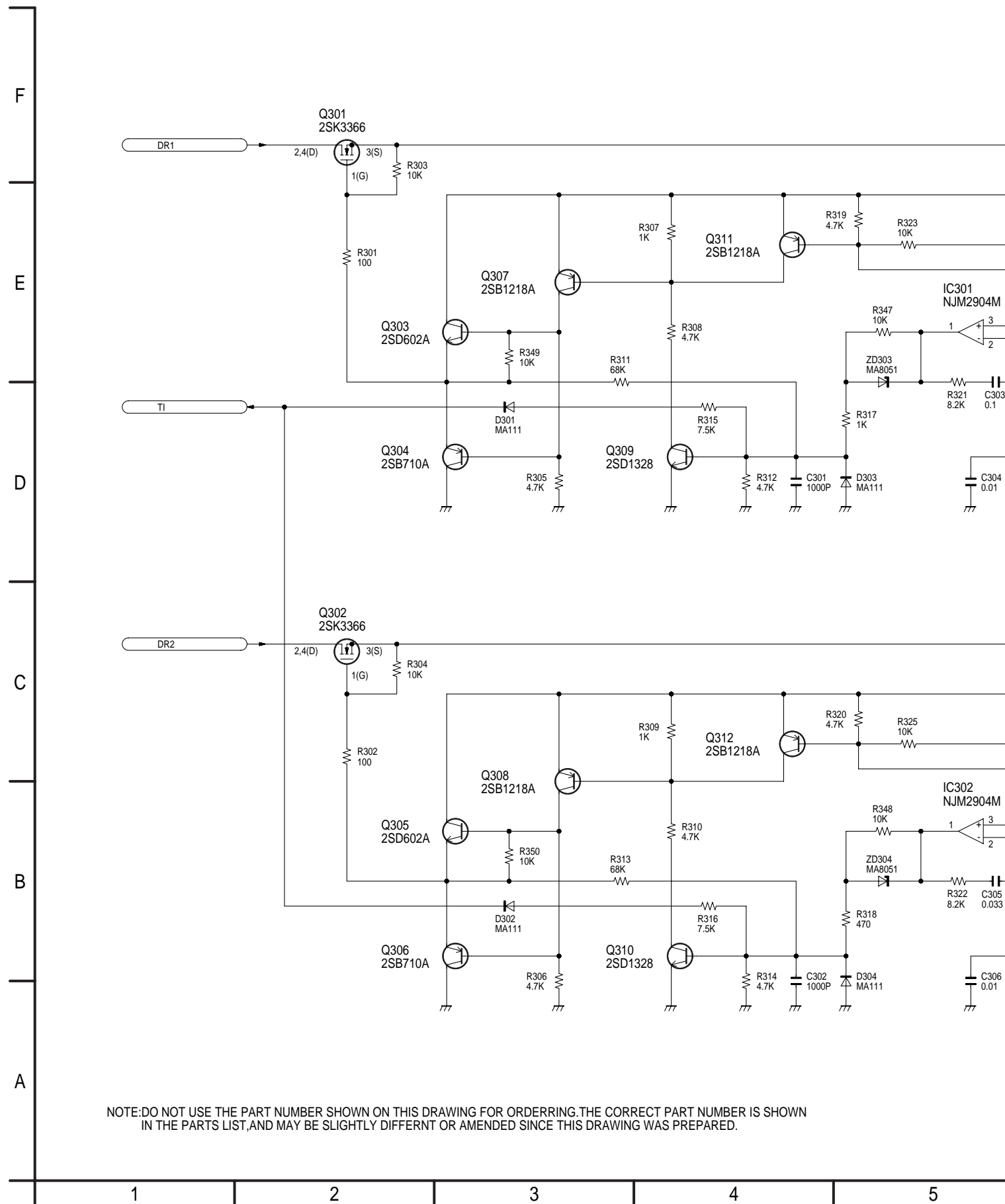


PLEASE REFER TO THE PART NUMBER LIST FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PART NUMBER LIST AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

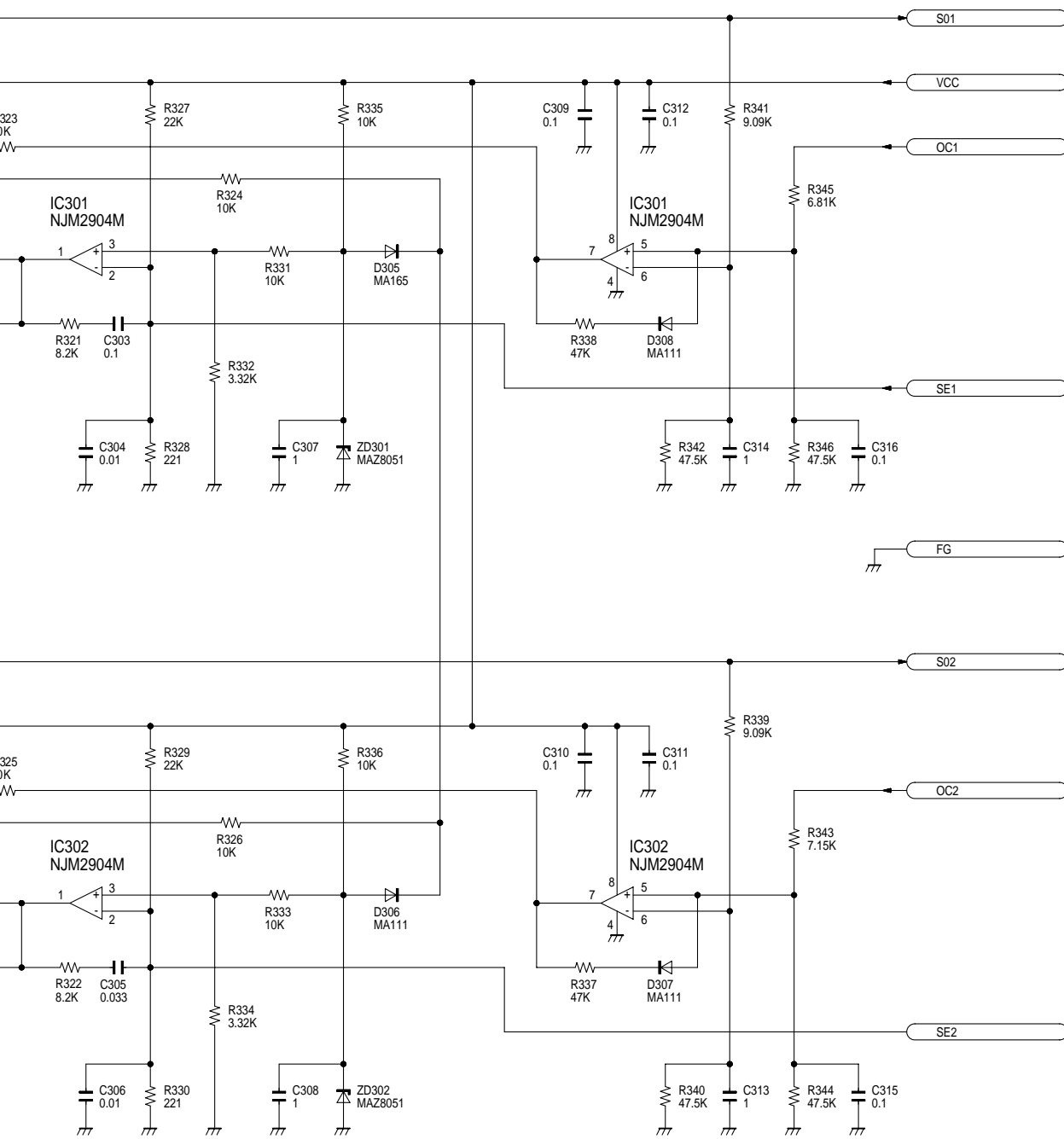
SAFETY NOTICE: COMPONENTS IDENTIFIED WITH THE MARK HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. PLEASE USE ANY OF THESE COMPONENTS ONLY THE SAME TYPE.

DMR-HS2EB/EB1/EG/EG1/GN
Power Supply Schematic Diagram
(Power Supply P.C.B.(1/2))

15.3. Power Supply Schematic Diagram (Power Supply P.C.B. (2/2))



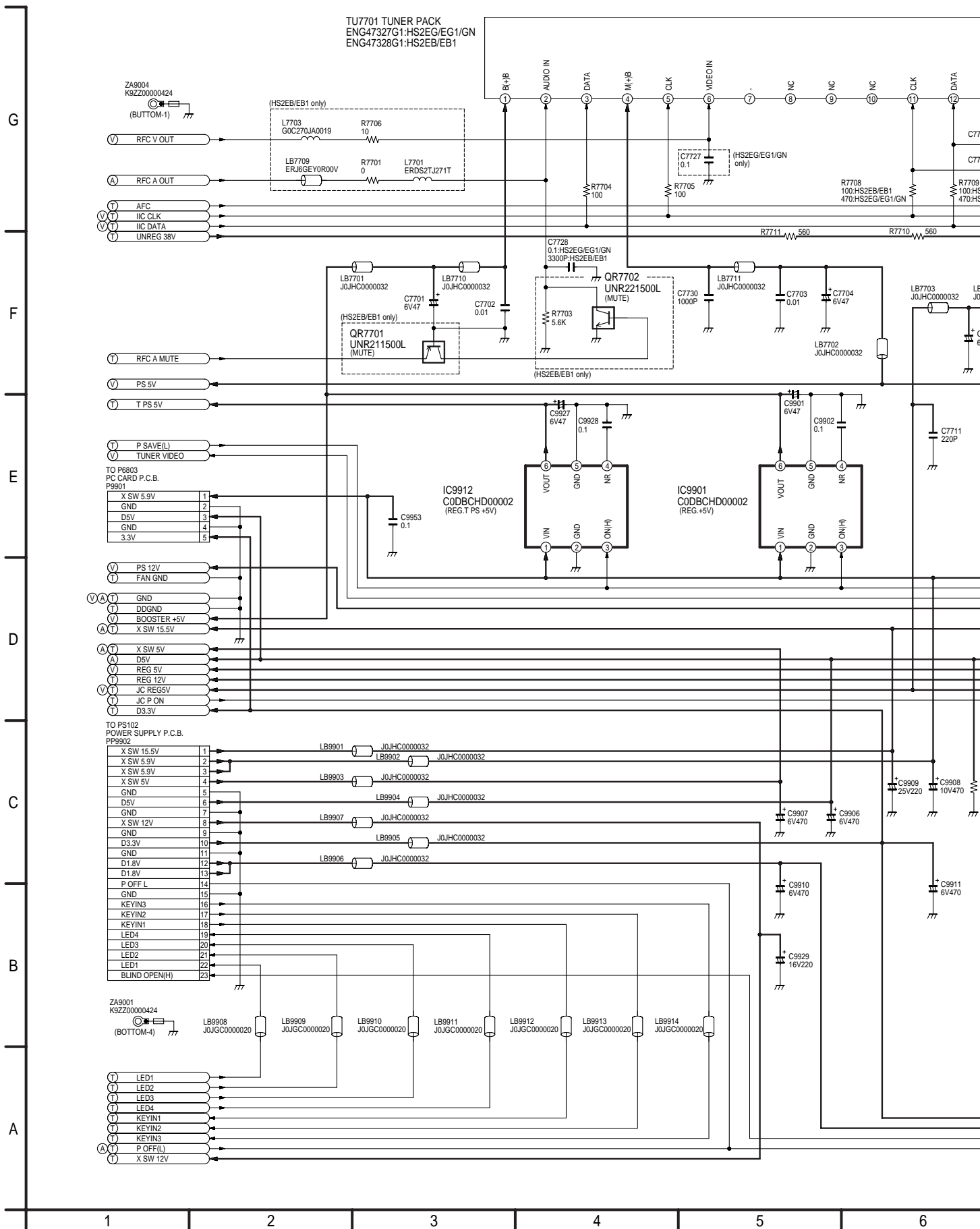
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

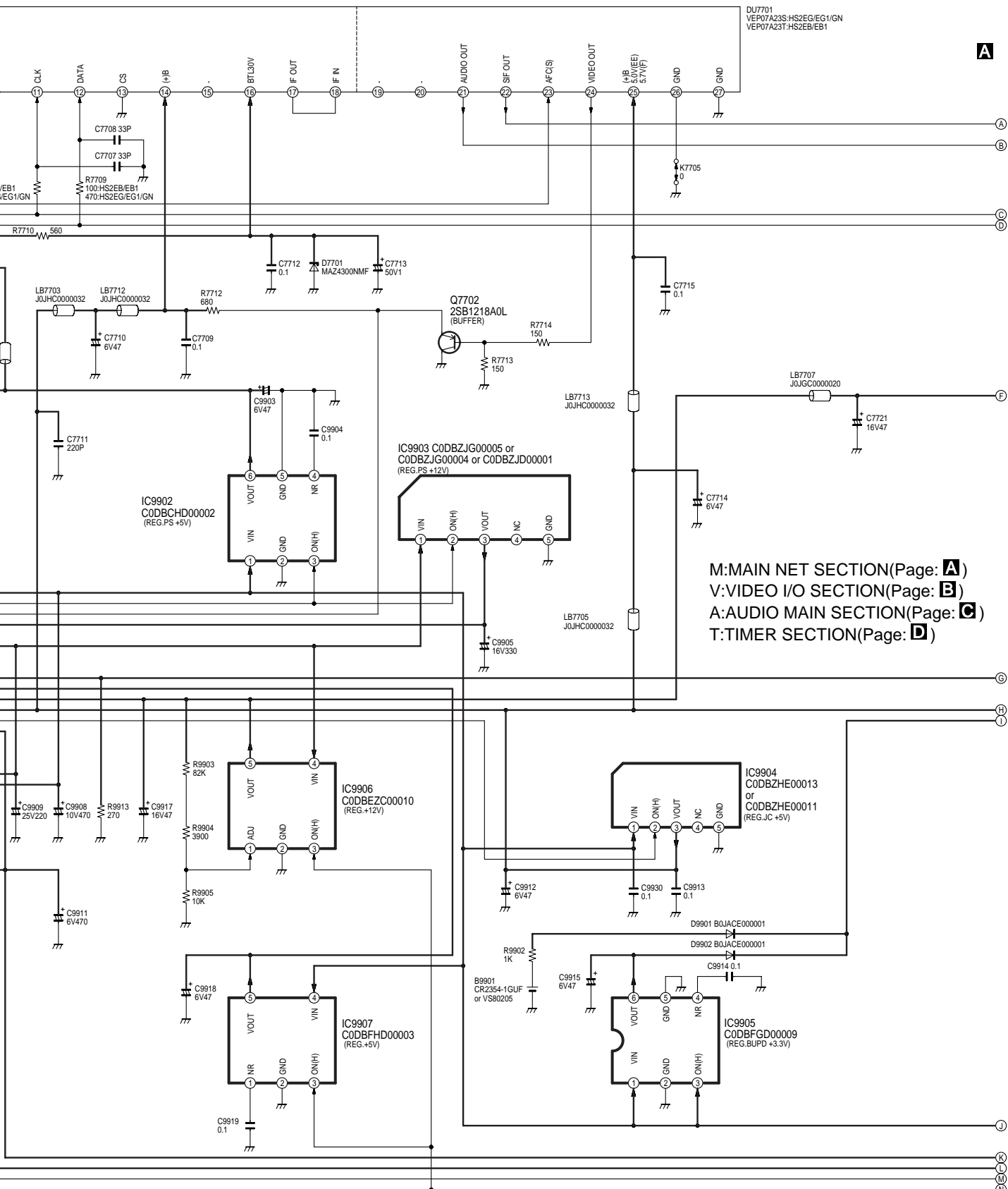


DMR-HS2EB/EB1/EG/EG1/GN
Power Supply Schematic Diagram
(Power Supply P.C.B.(2/2))



15.4. Main Net Section (Main P.C.B. (1/4)) Schematic Diagram (M)





DU7701
VER07A23S:HS2EG/EG1/GN
VER07A23T:HS2EB/EB1

A

B

C

D

E

F

G

H

I

J

K

L

M

N

M:MAIN NET SECTION(Page: **A**)
V:VIDEO I/O SECTION(Page: **B**)
A:AUDIO MAIN SECTION(Page: **C**)
T:TIMER SECTION(Page: **D**)

DMR-HS2EB/EB1/EG/EG1/GN
Main Net Section(Main P.C.B.(1/4))
Schematic Diagram(M)



A
B

C
D

E

G

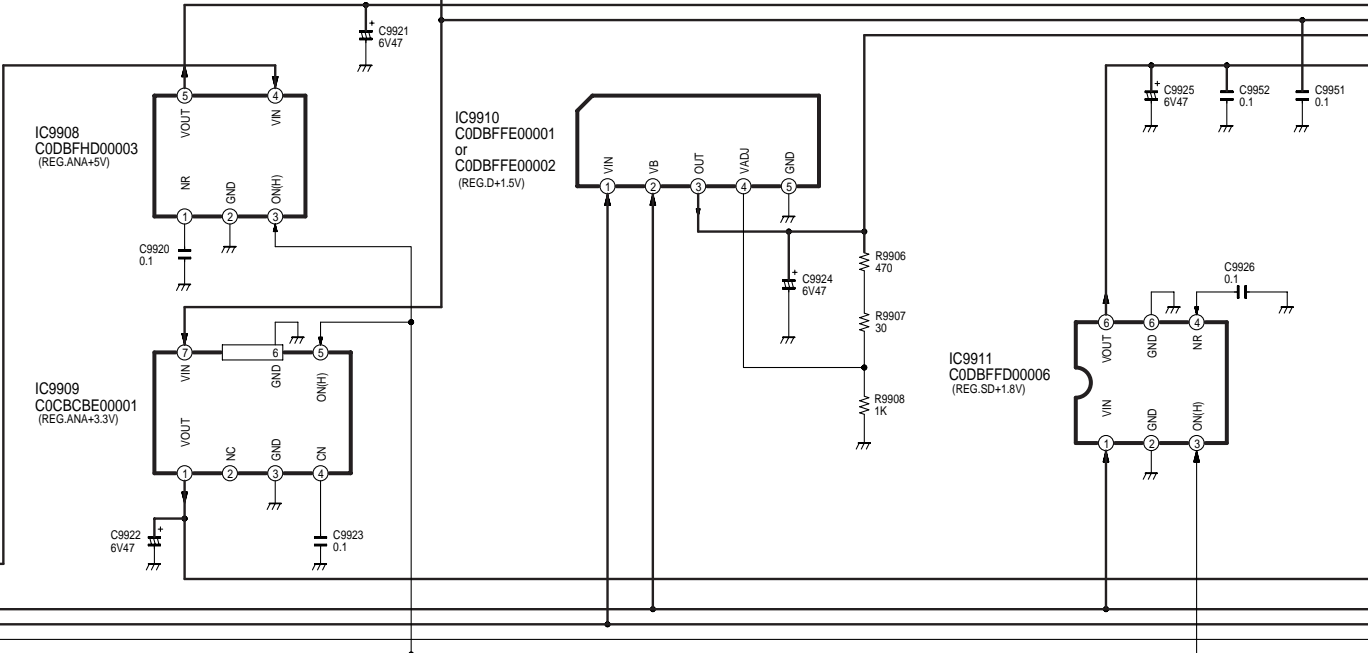
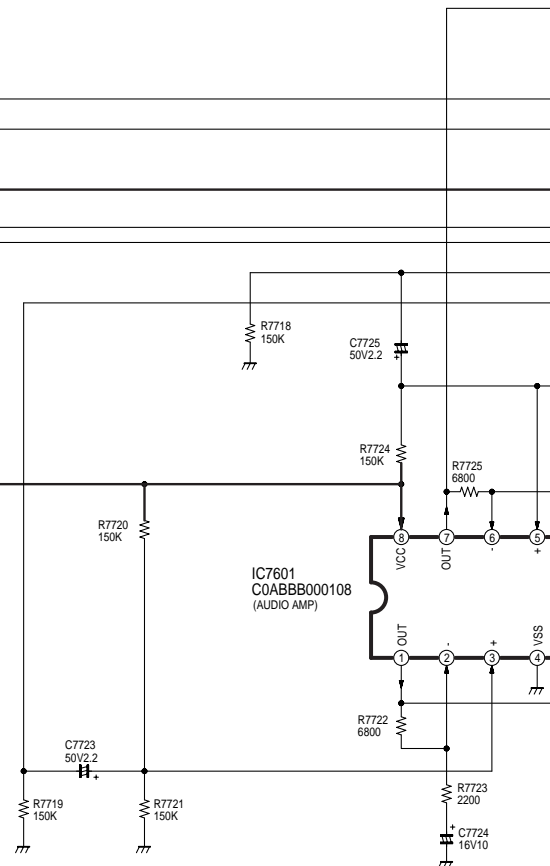
H
I

J

K
L
M

N

M:MAIN NET SECTION(Page: **A**)
 V:VIDEO I/O SECTION(Page: **B**)
 A:AUDIO MAIN SECTION(Page: **C**)
 T:TIMER SECTION(Page: **D**)

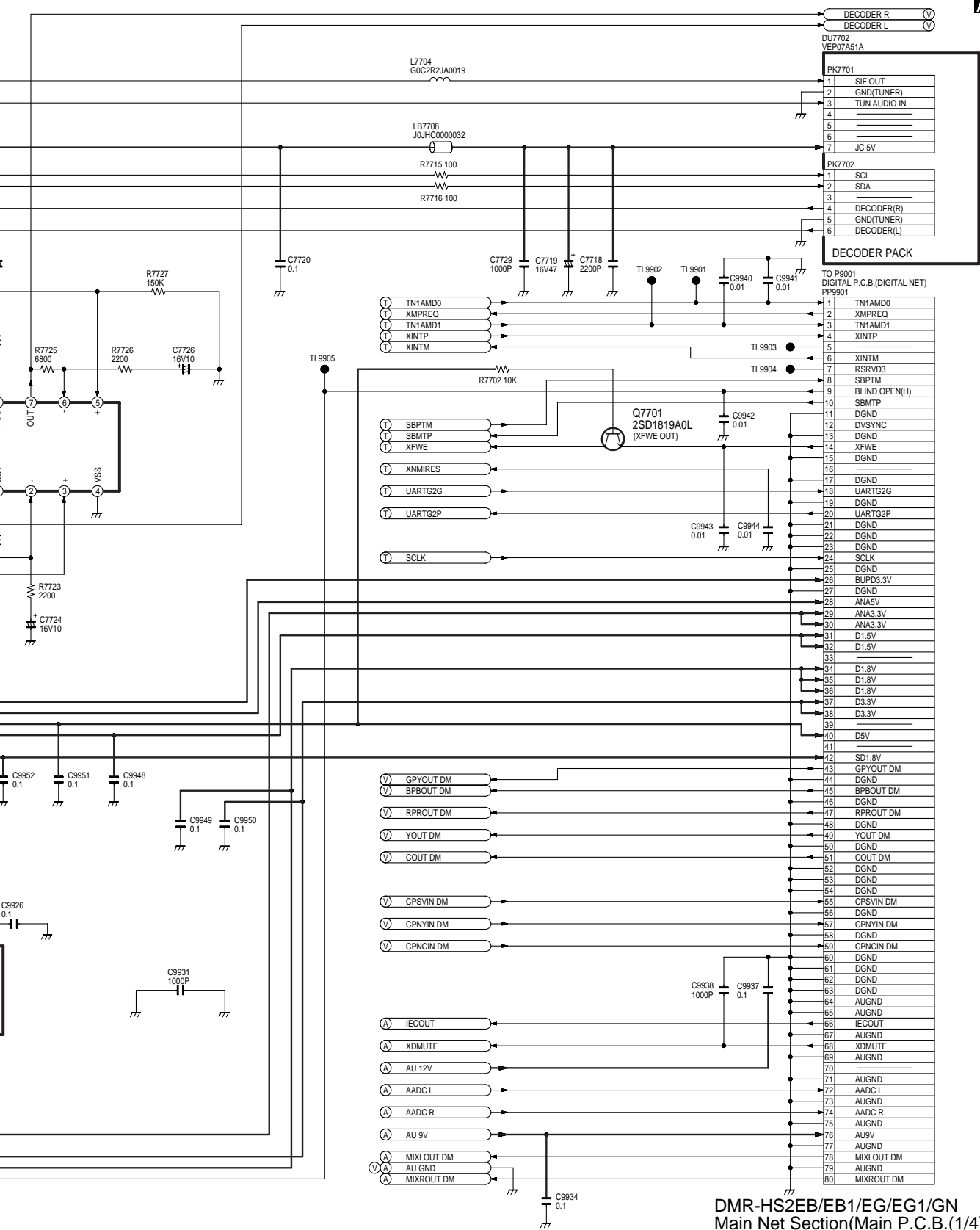


NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-HS2EB/EB1/EG/EG1/GN
 Main Net Section(Main P.C.B.(1/4))
 Schematic Diagram(M)

12 | 13 | 14 | 15 | 16 | 17

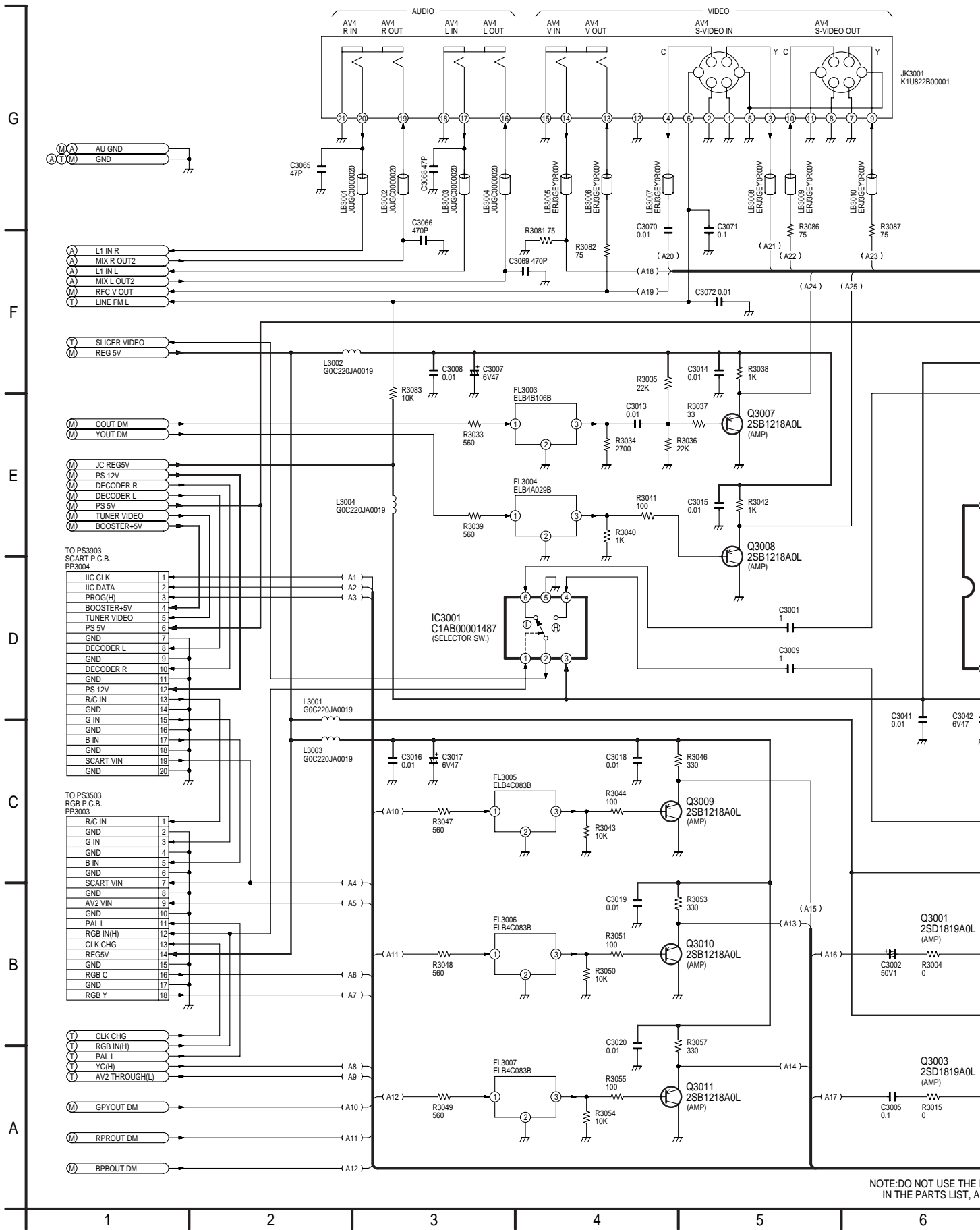
ZA9003
K9ZZ00000424
(BOTTOM-7)



DMR-HS2EB/EB1/EG/EG1/GN
Main Net Section(Main P.C.B.(1/4))
Schematic Diagram(M)

18 | 19 | 20 | 21 | 22

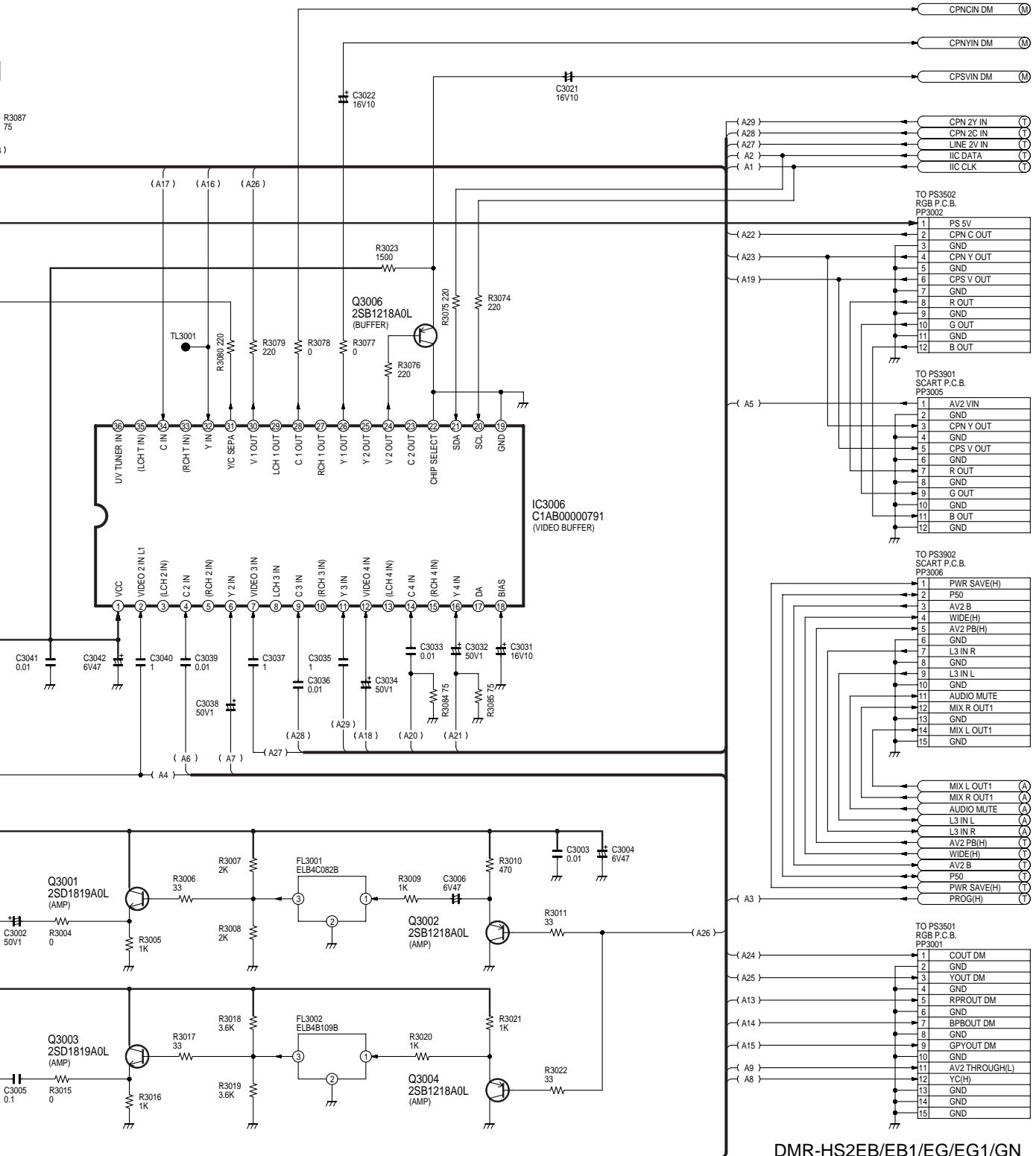
15.5. Video I/O Section (Main P.C.B. (2/4)) Schematic Diagram (V)



NOTE: DO NOT USE THE IN THE PARTS LIST. A

M:MAIN NET SECTION(Page: **A**)
 V:VIDEO I/O SECTION(Page: **B**)
 A:AUDIO MAIN SECTION(Page: **C**)
 T:TIMER SECTION(Page: **D**)

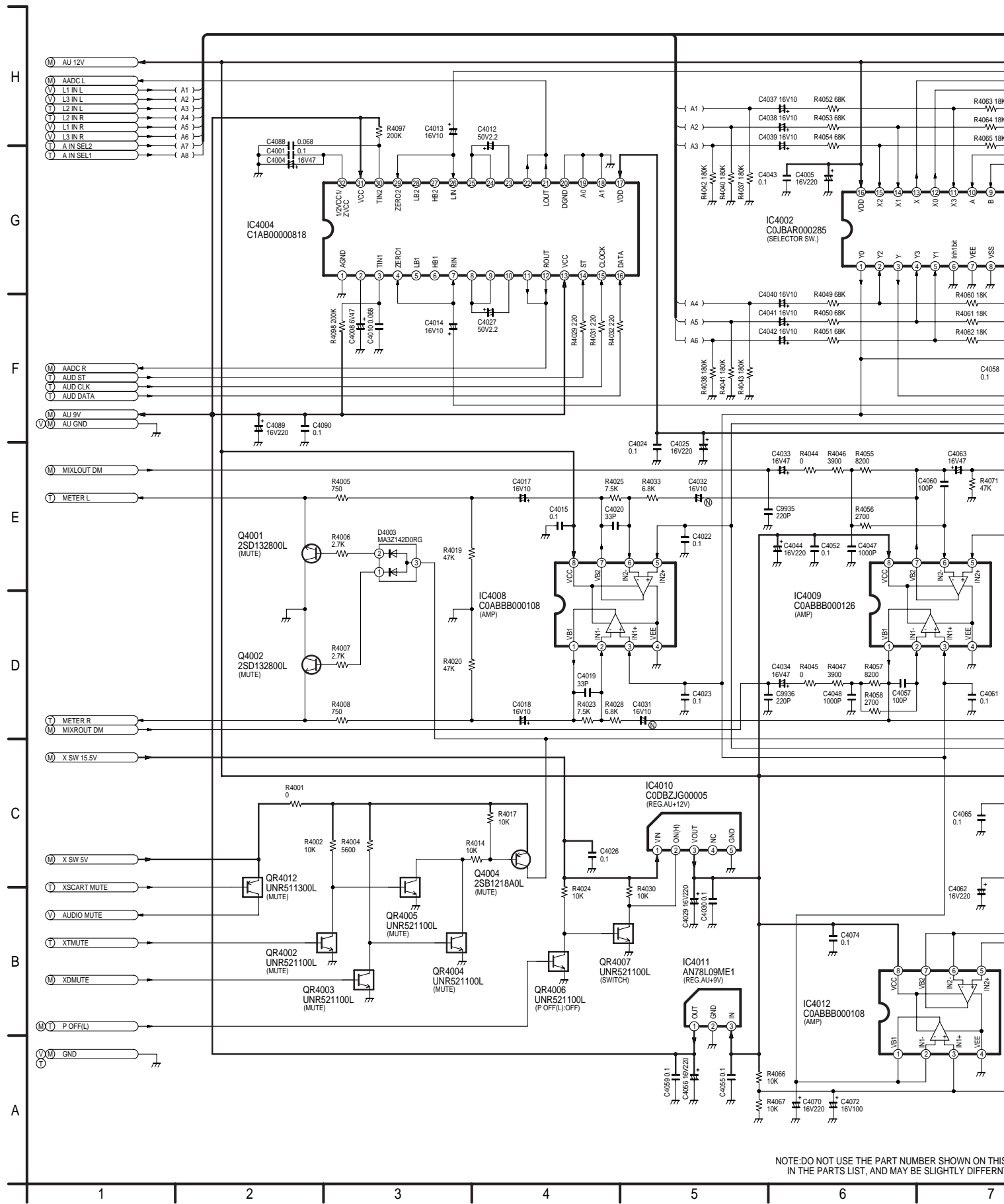
ZA9005
 K9Z20000424
 (BOTTOM-2) **B**



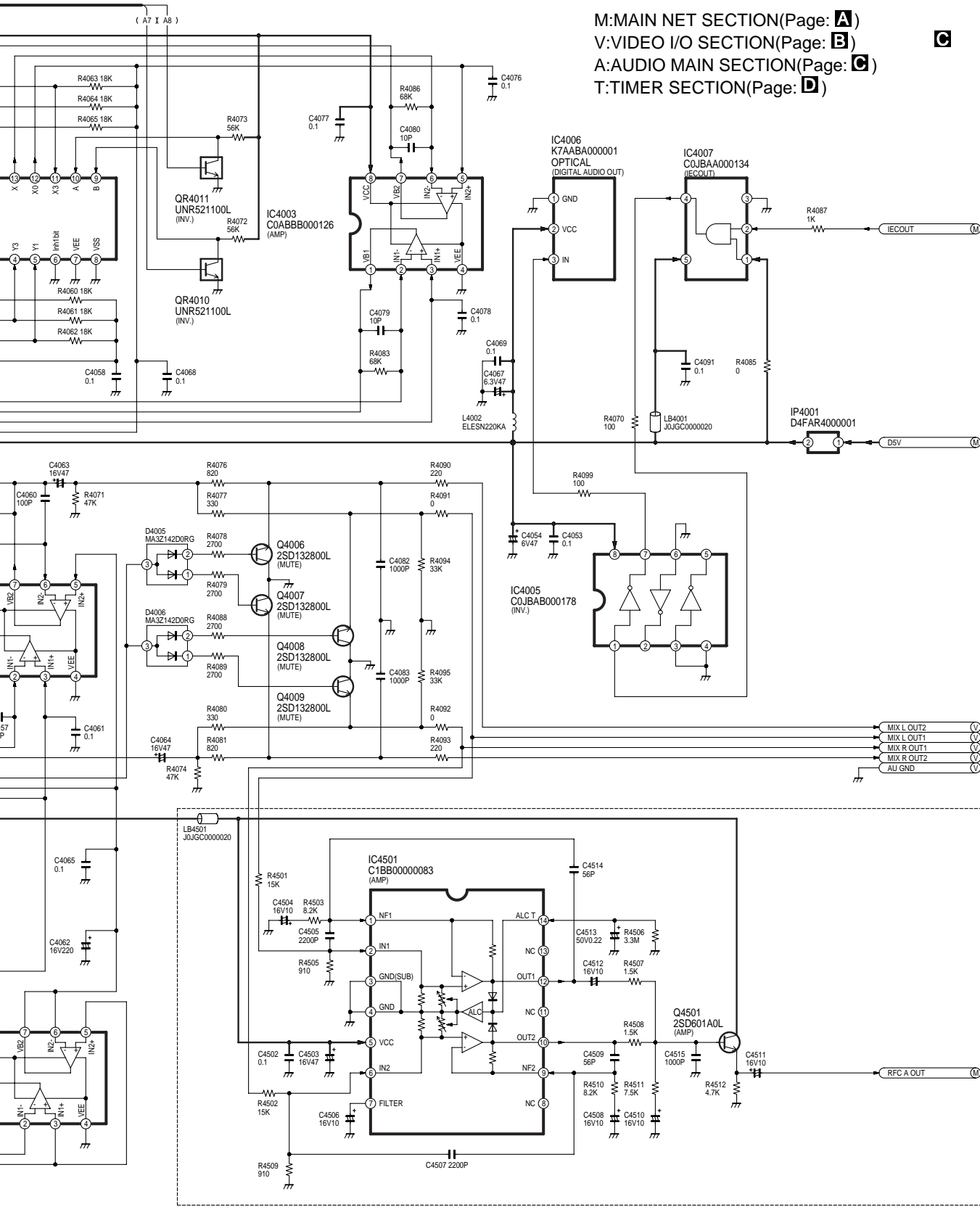
DMR-HS2EB/EB1/EG/EG1/GN
 Video I/O Section(Main P.C.B.(2/4))
 Schematic Diagram(V)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

15.6. Audio Main Section (Main P.C.B. (3/4)) Schematic Diagram (A)



NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT



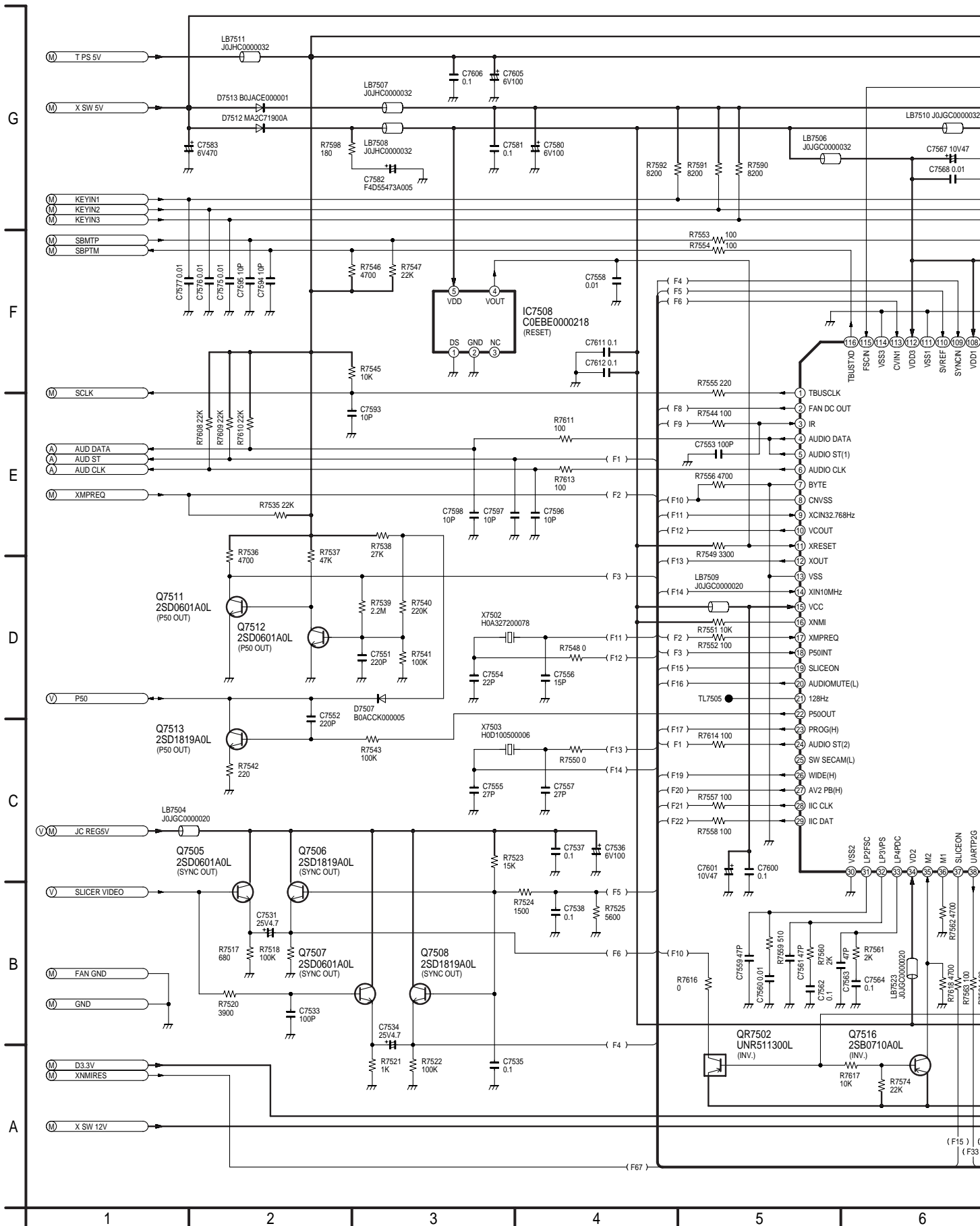
M:MAIN NET SECTION(Page: **A**)
V:VIDEO I/O SECTION(Page: **B**)
A:AUDIO MAIN SECTION(Page: **C**)
T:TIMER SECTION(Page: **D**)

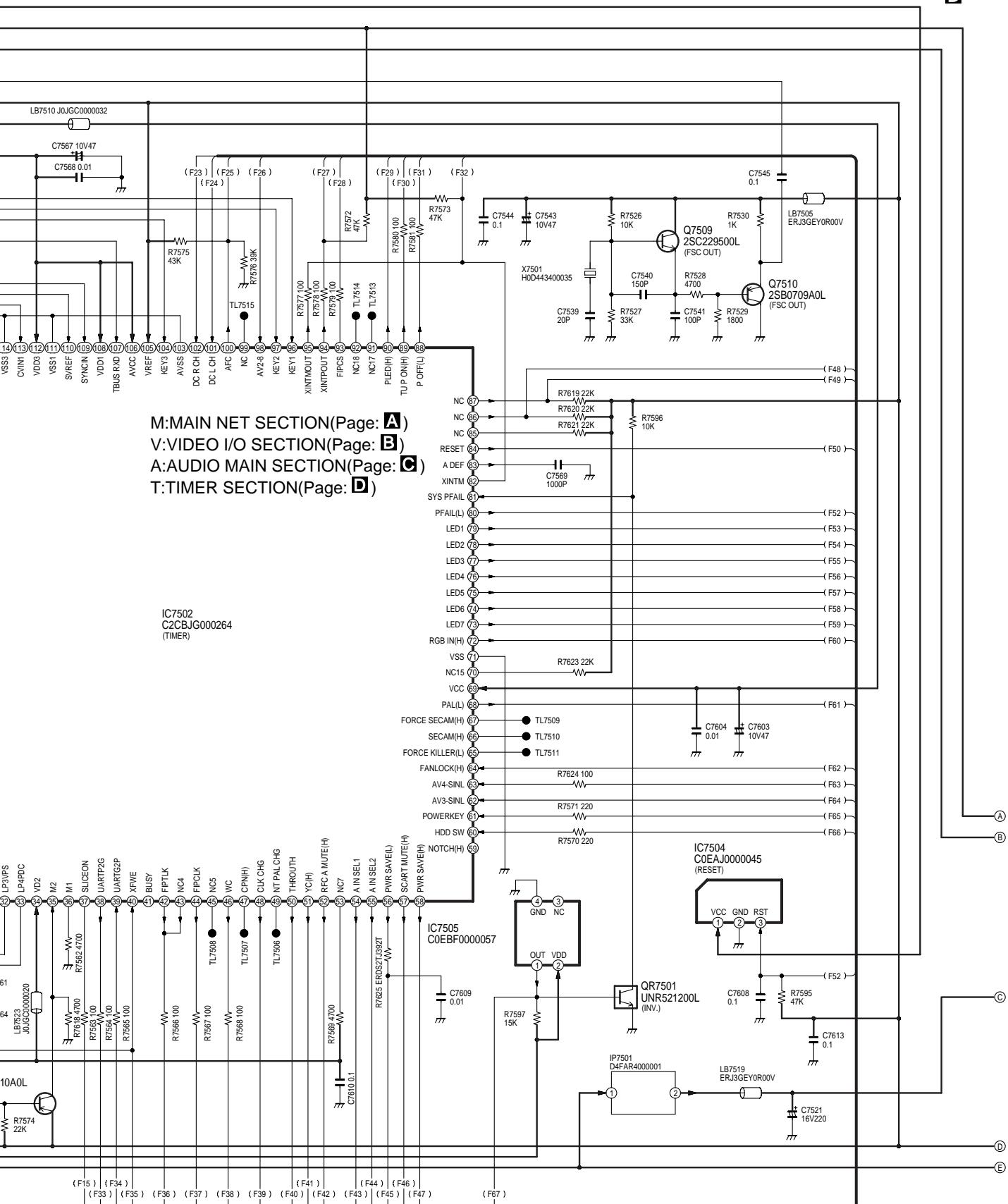
C

NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
IF IT BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-HS2EB/EB1/EG/EG1/GN
Audio Main Section(Main P.C.B.(3/4))
Schematic Diagram(A)

15.7. Timer Section (Main P.C.B. (4/4)) Schematic Diagram (T)





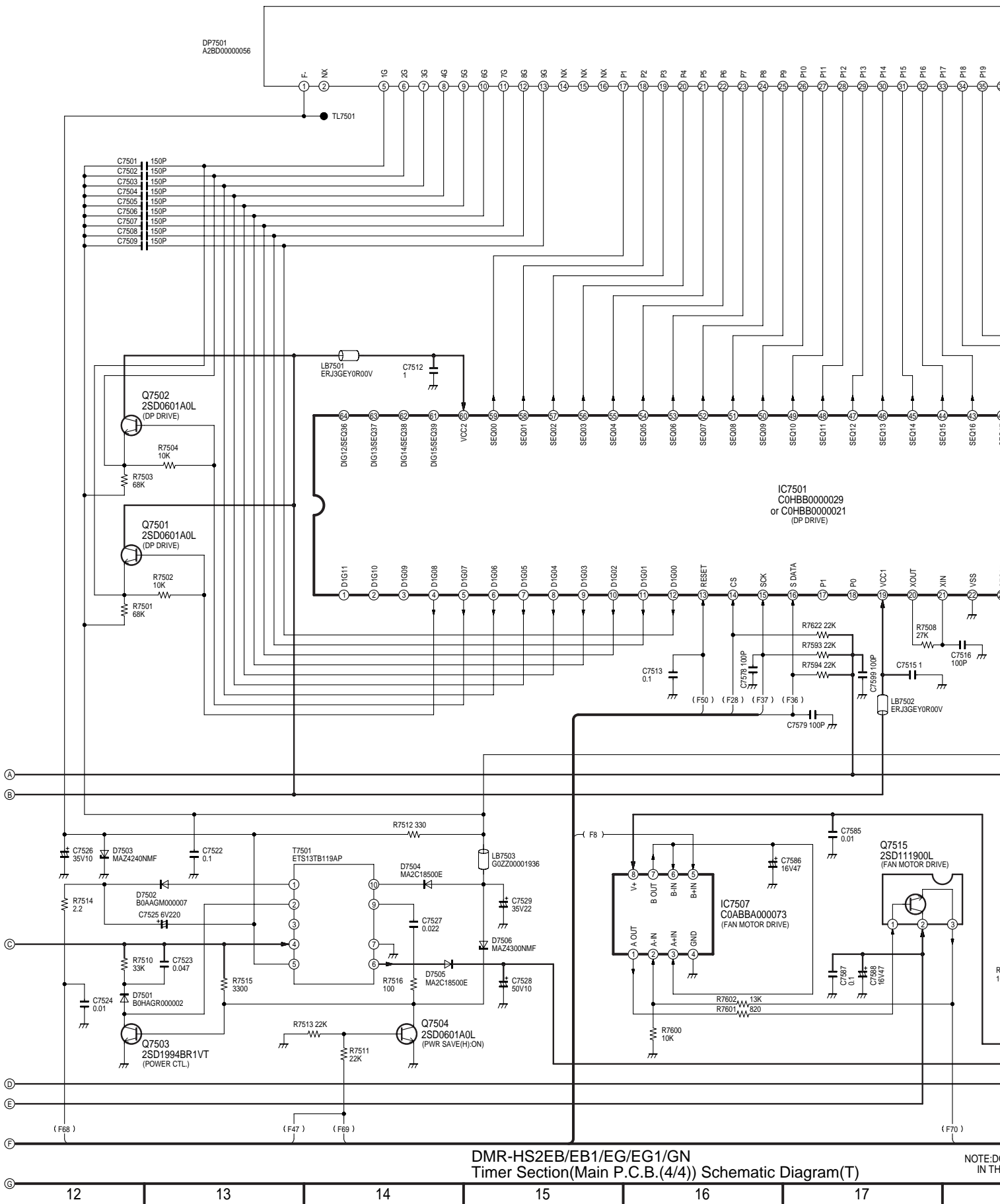
M:MAIN NET SECTION(Page: A)
 V:VIDEO I/O SECTION(Page: B)
 A:AUDIO MAIN SECTION(Page: C)
 T:TIMER SECTION(Page: D)

IC7502
 C2CBJG000264
 (TIMER)

IC7504
 COEAJ0000045
 (RESET)

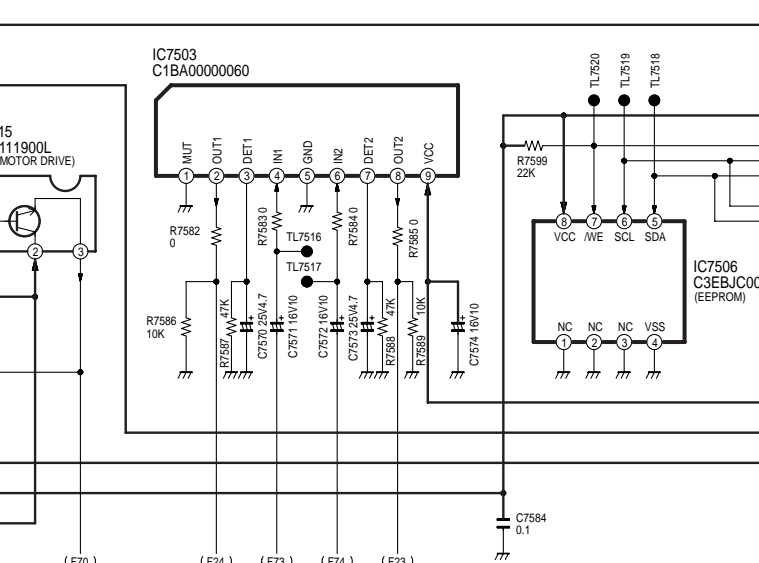
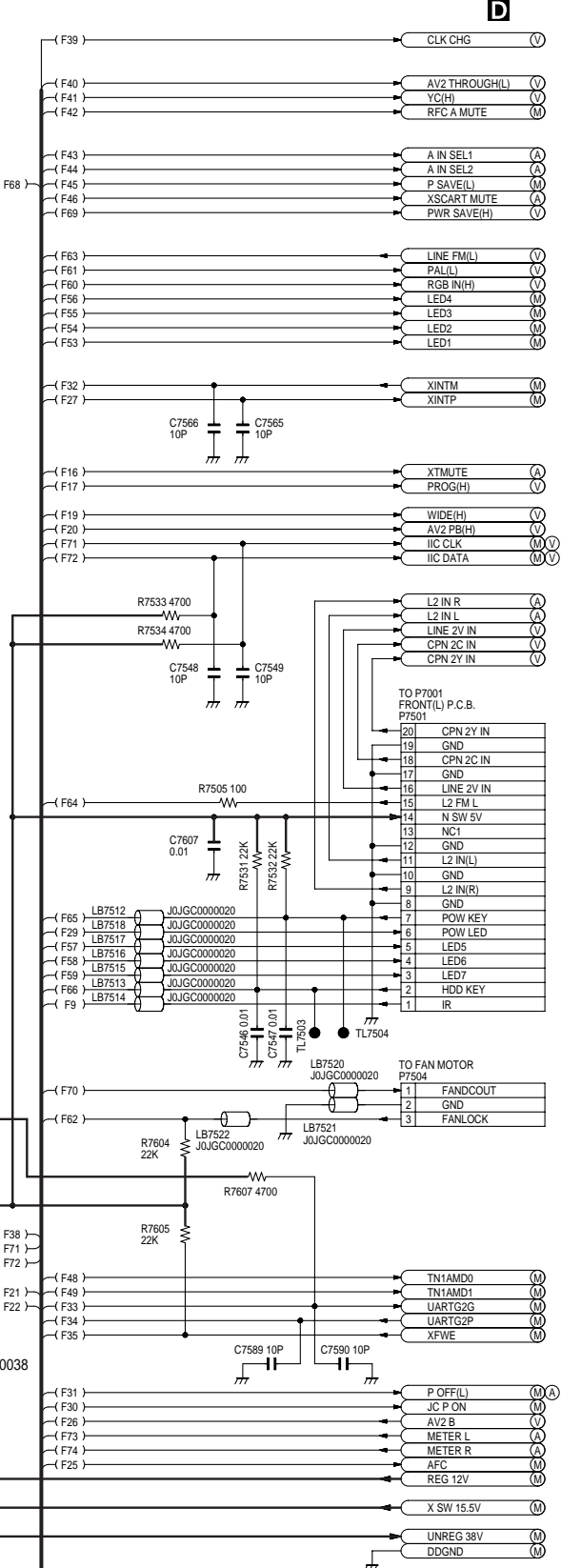
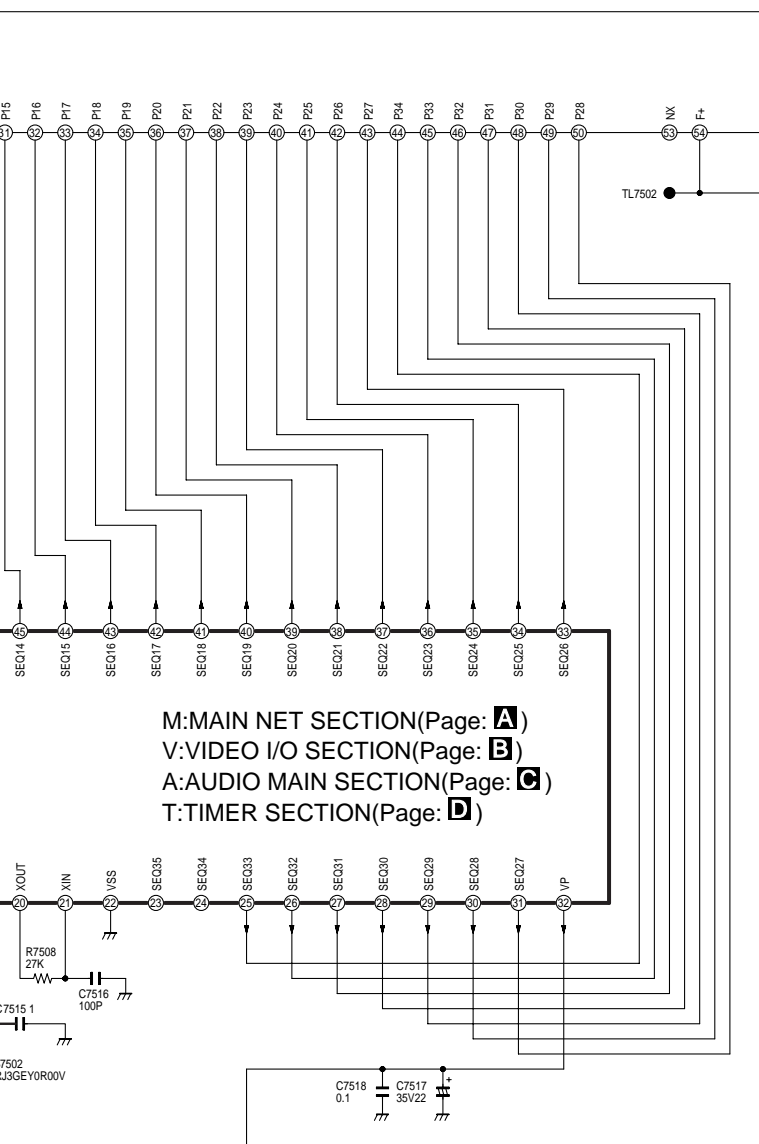
IC7505
 COEBF0000057

DMR-HS2EB/EB1/EG/EG1/GN
 Timer Section(Main P.C.B.(4/4)) Schematic Diagram(T)



DMR-HS2EB/EB1/EG/EG1/GN
Timer Section(Main P.C.B./4/4) Schematic Diagram(T)

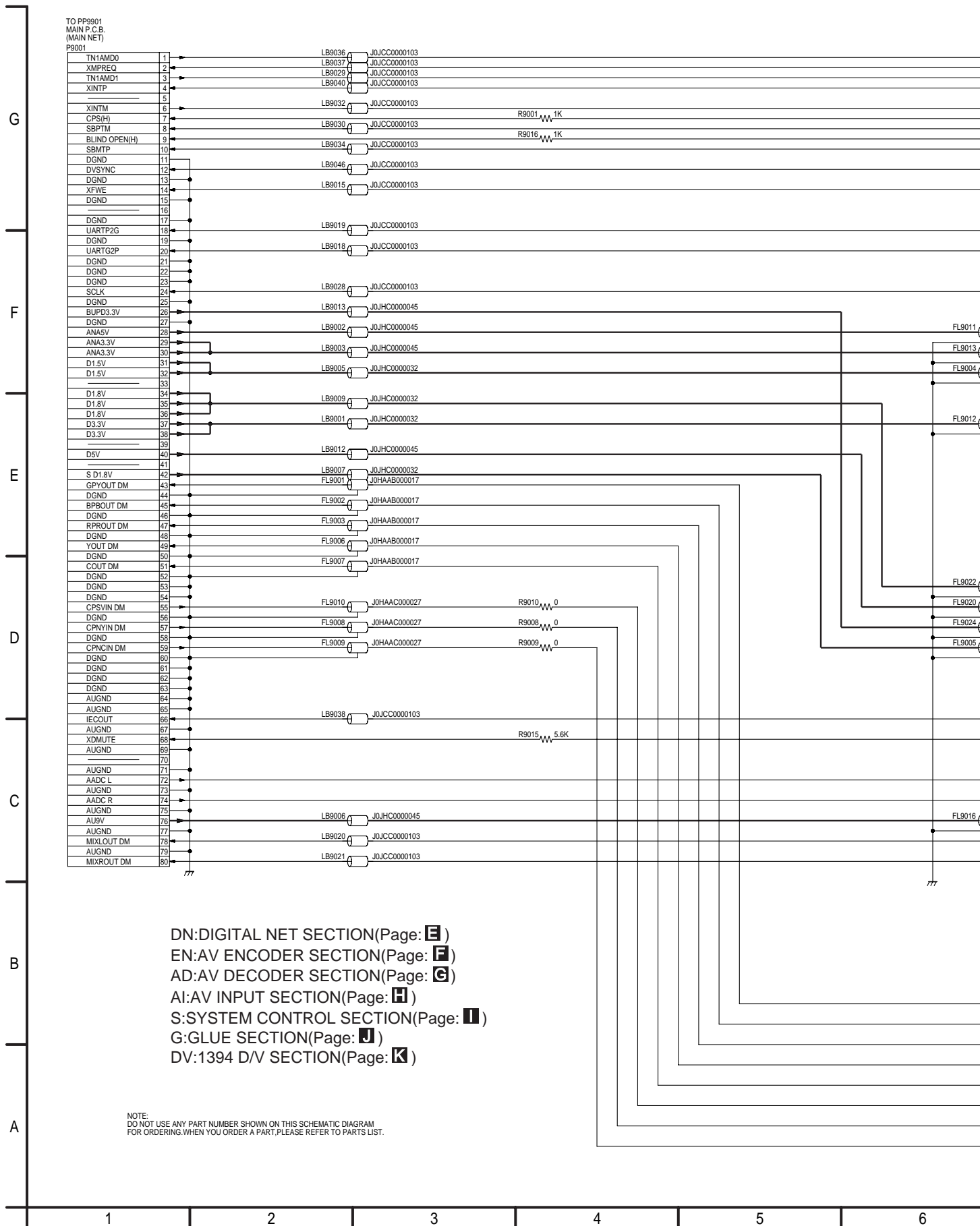
NOTE: D...
IN TH...

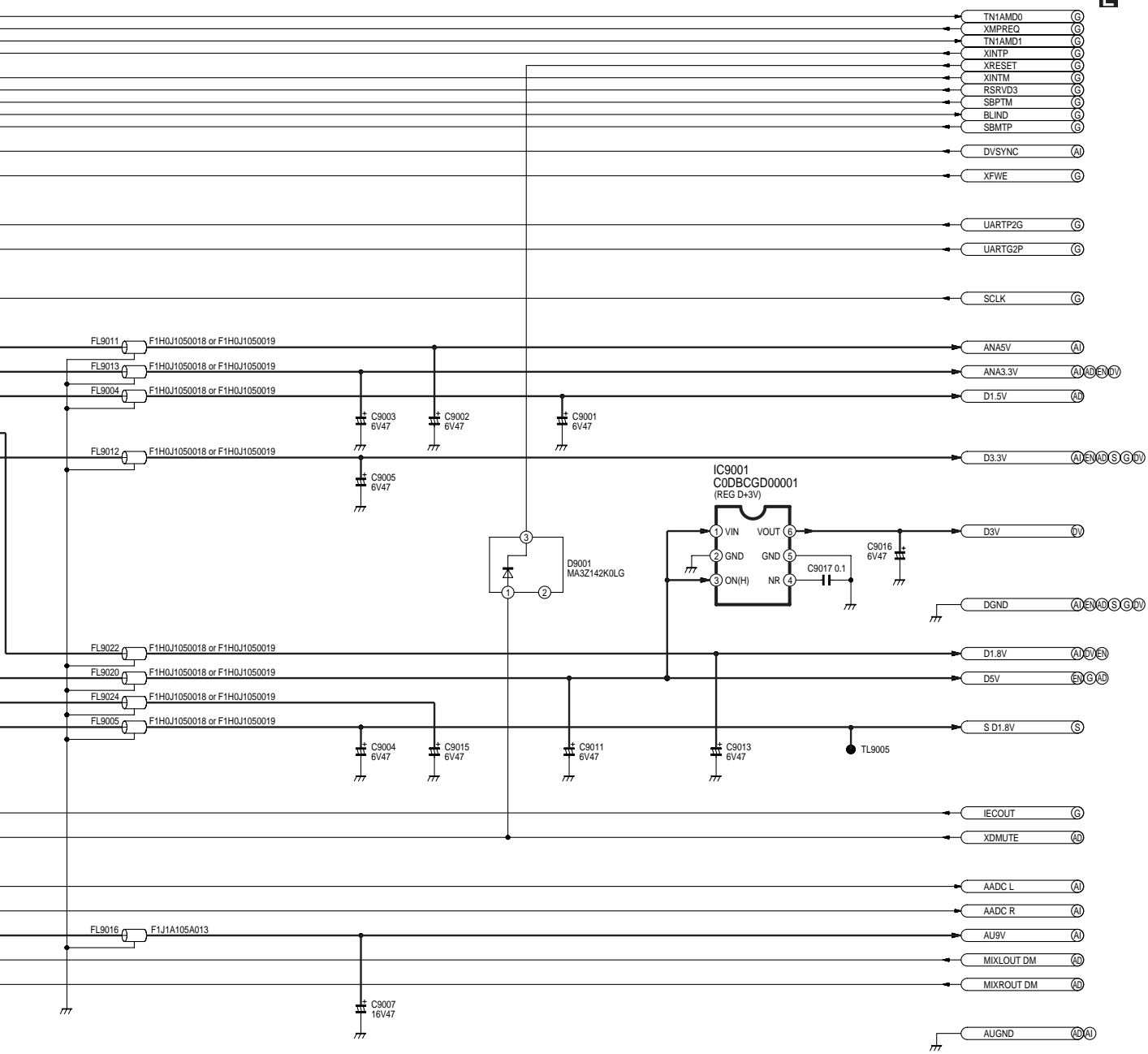


NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-HS2EB/EB1/EG/EG1/GN
 Timer Section (Main P.C.B. (4/4))
 Schematic Diagram (T)

15.8. Digital Net Section (Digital P.C.B. (1/7)) Schematic Diagram (DN)



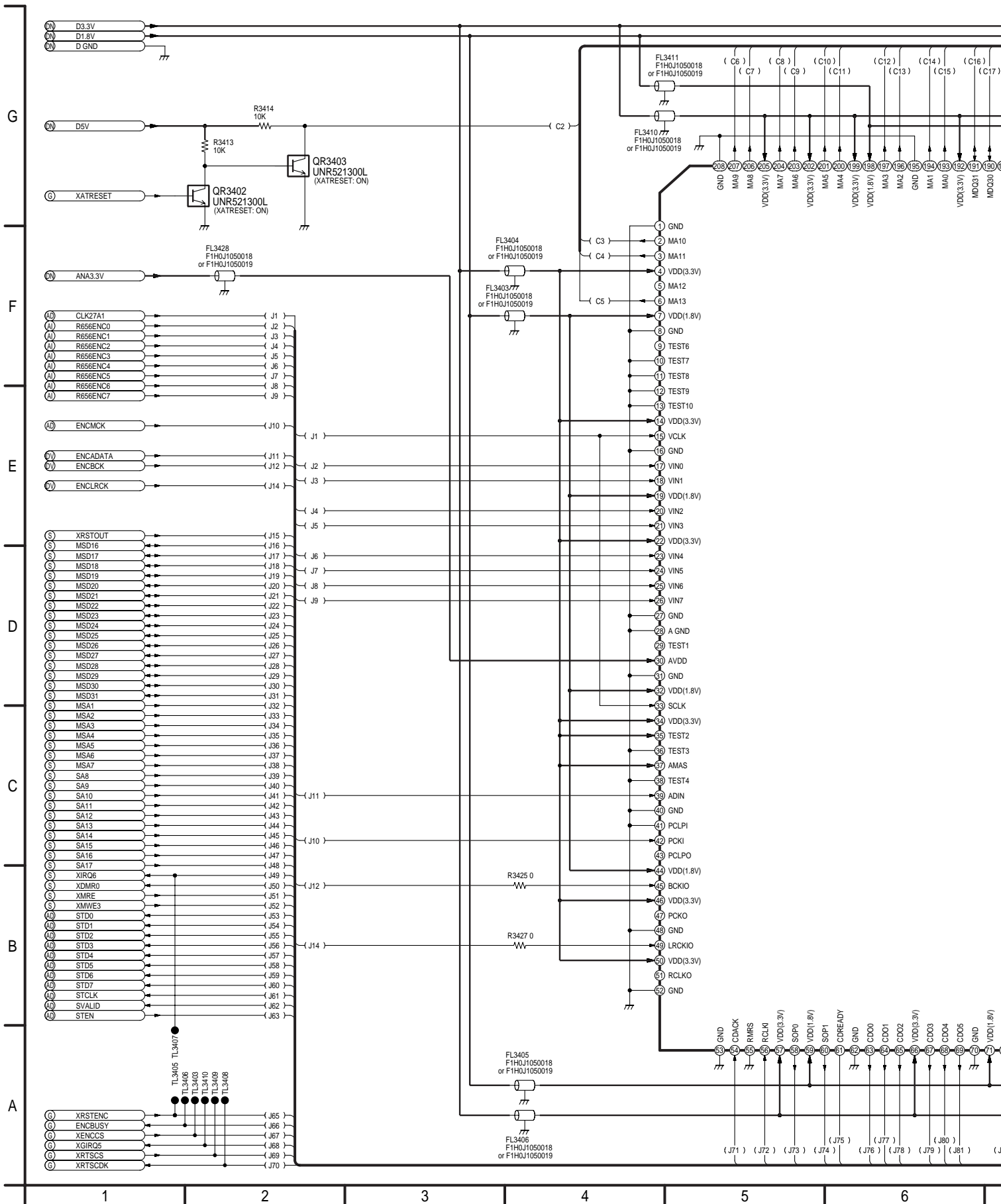
**E**

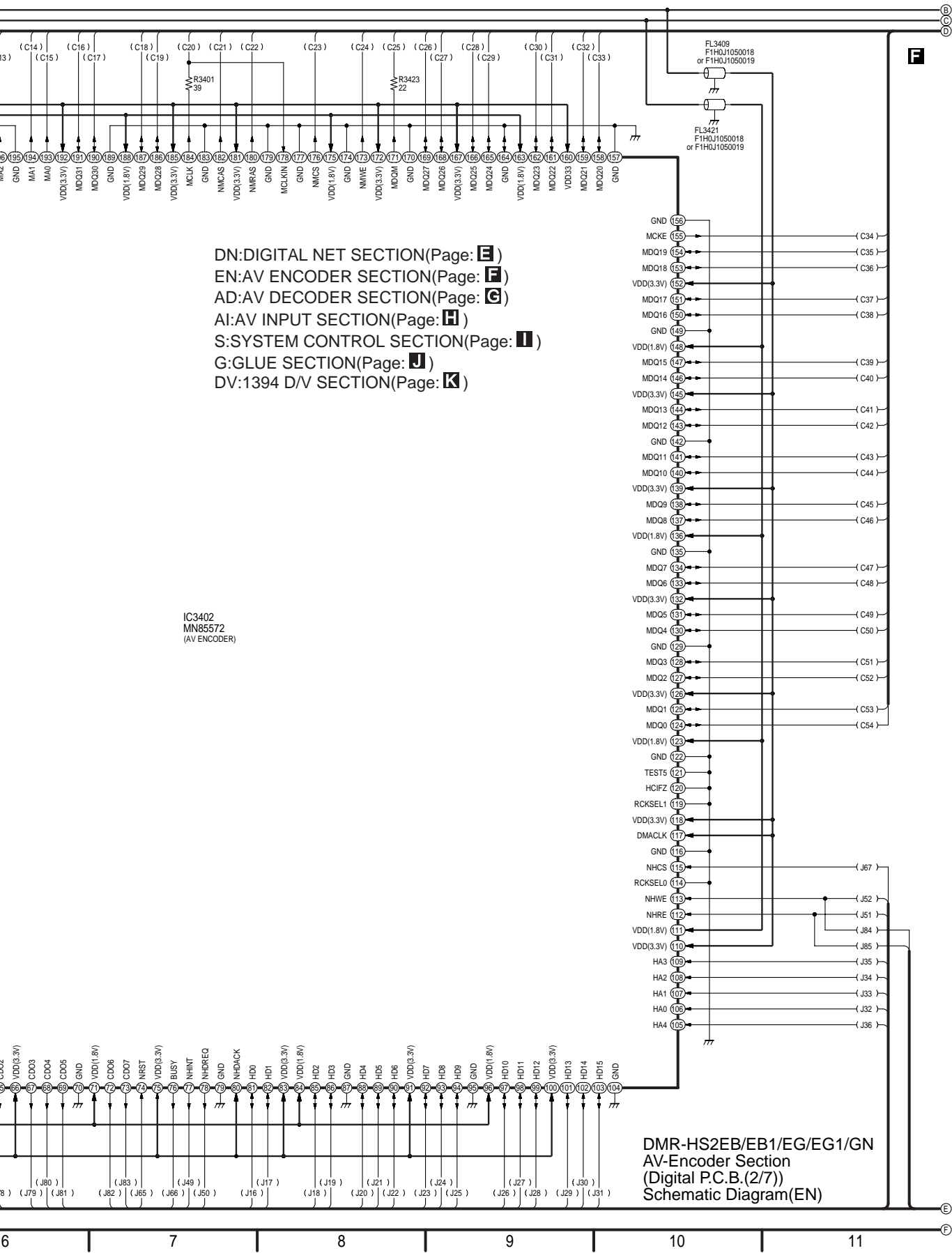
DMR-HS2EB/EB1/EG/EG1/GN
 Digital Net Section (Digital P.C.B. (1/7))
 Schematic Diagram(DN)

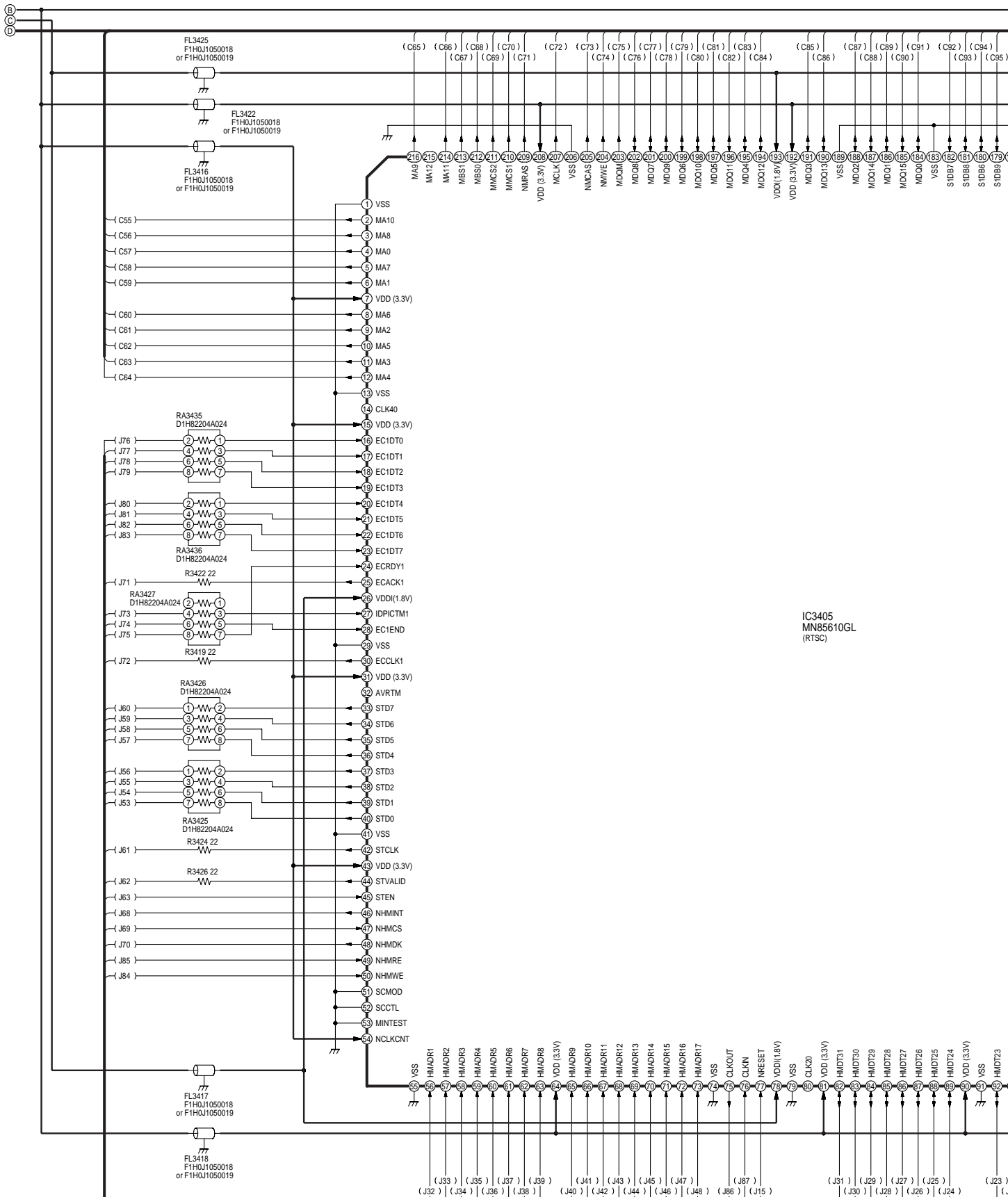
6 | 7 | 8 | 9 | 10 | 11



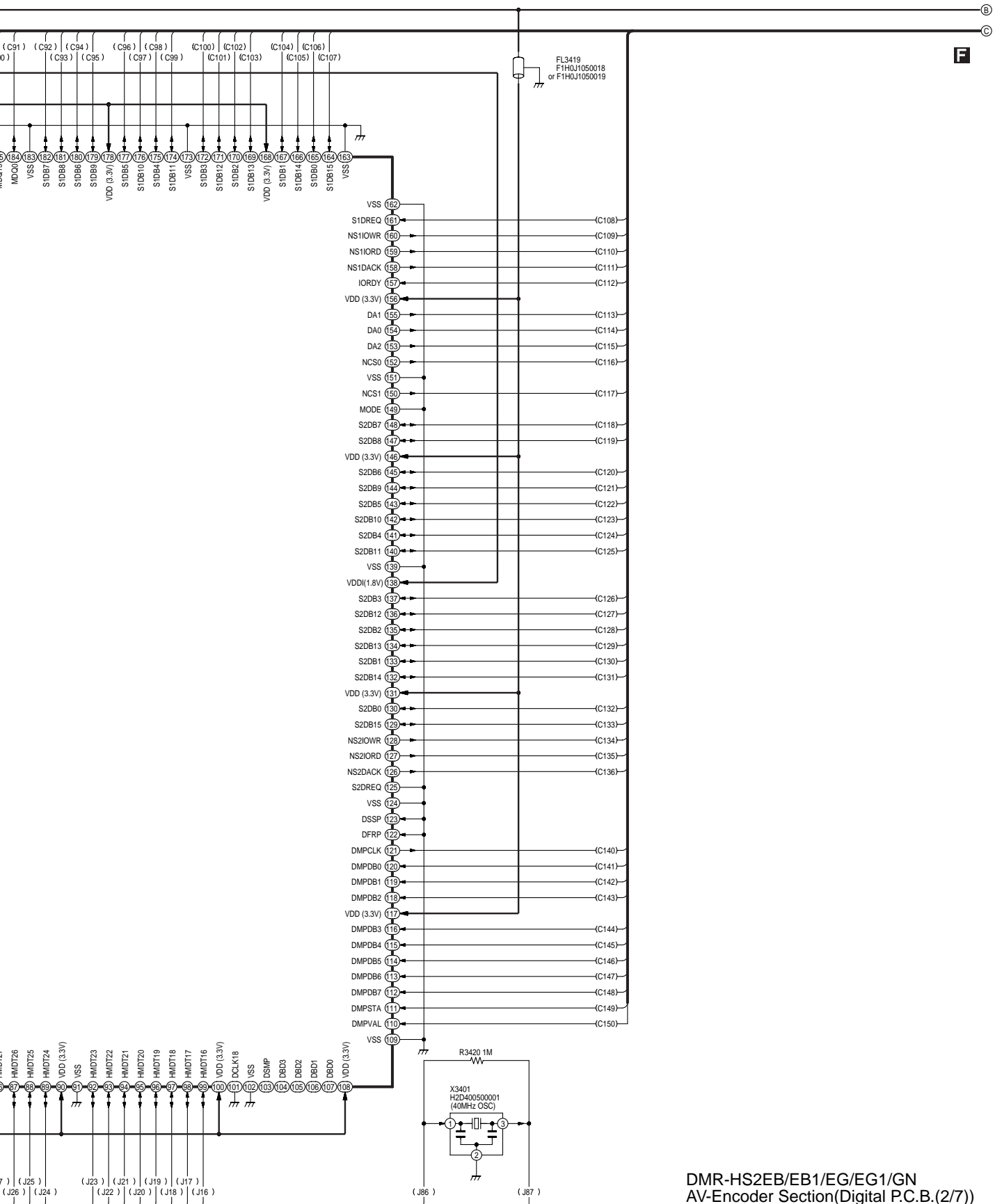
15.9. AV-Encoder Section (Digital P.C.B. (2/7)) Schematic Diagram (EN)



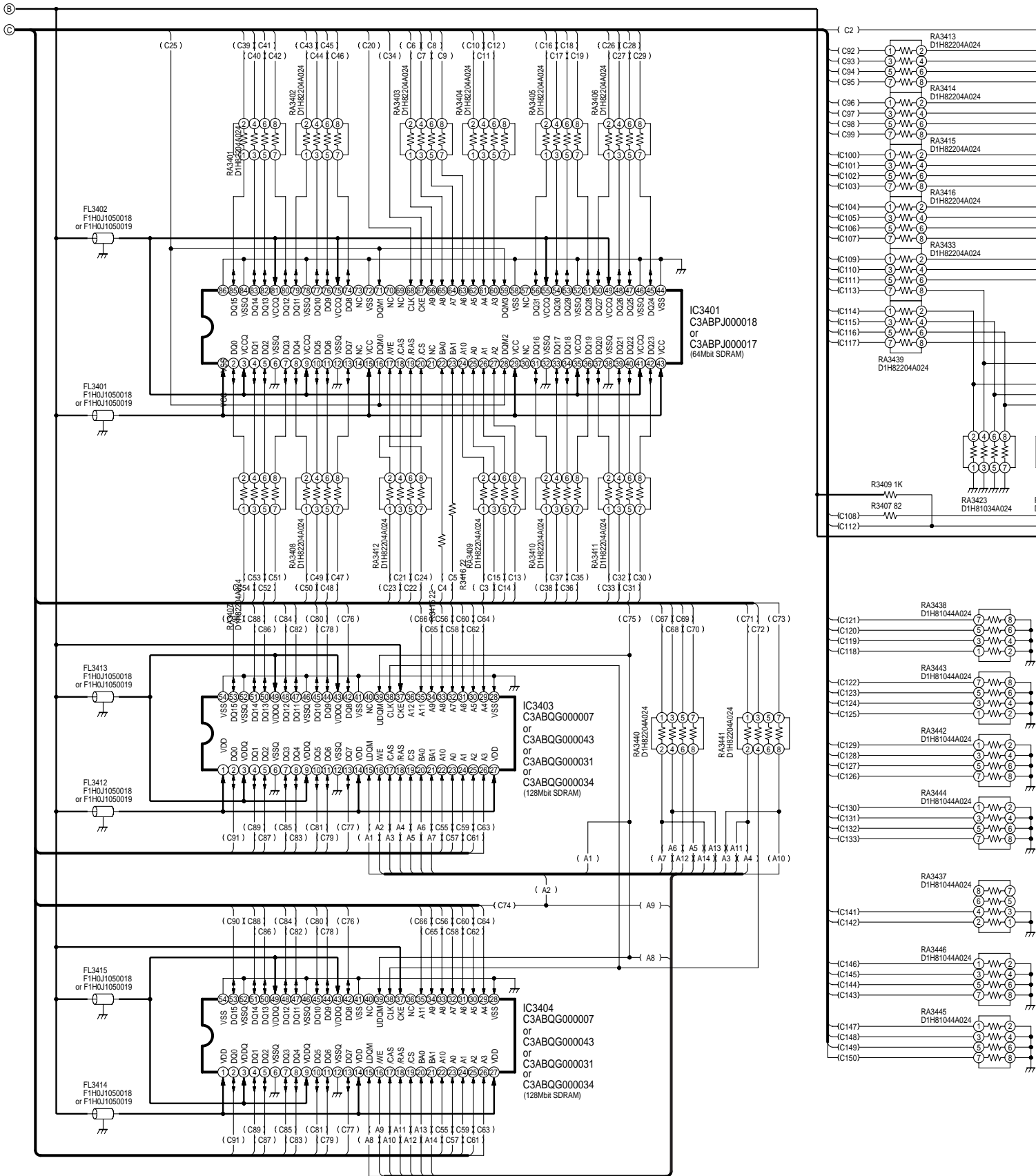




DMR-HS2EB/EB1/EG/EG1/GN AV-Encoder Section(Digital P.C.B.(2/7)) Schematic Diagram(EN)



DMR-HS2EB/EB1/EG/EG1/GN
AV-Encoder Section(Digital P.C.B.(2/7))
Schematic Diagram(EN)



DMR-HS2EB/EB1/EG/EG1/GN
AV-Encoder Section(Digital P.C.B.(2/7)) Schematic Diagram(EN)

23

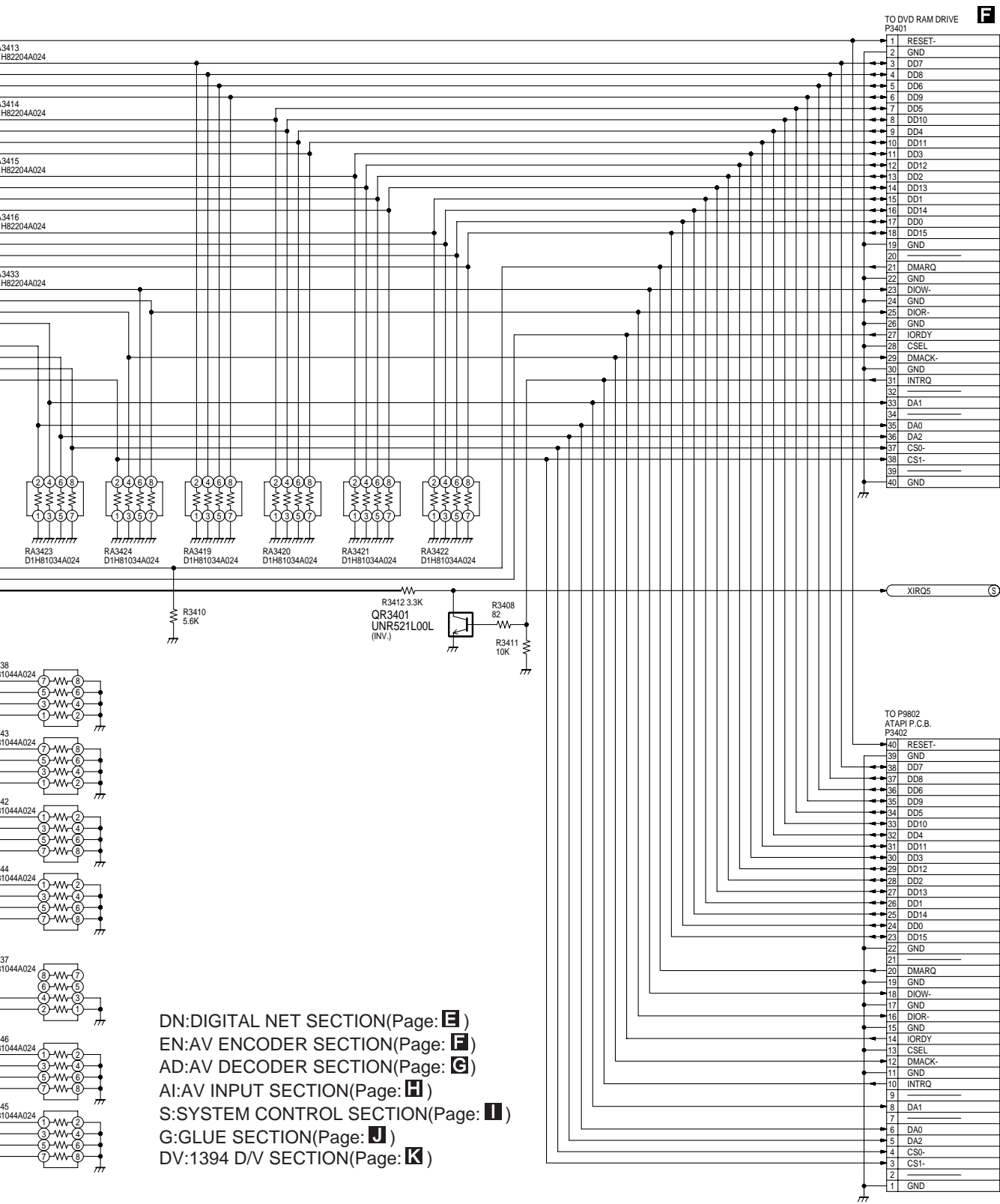
24

25

26

27

28

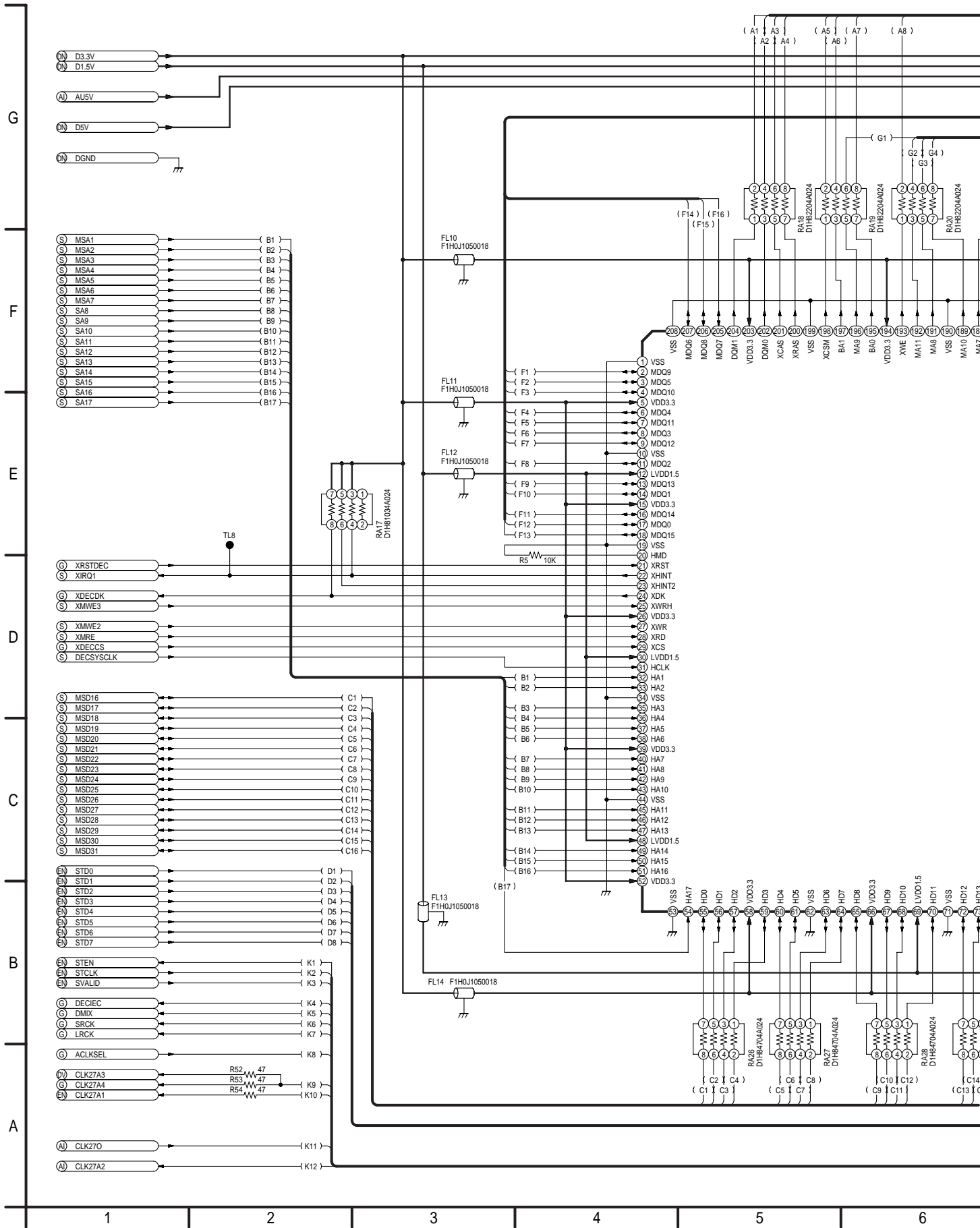


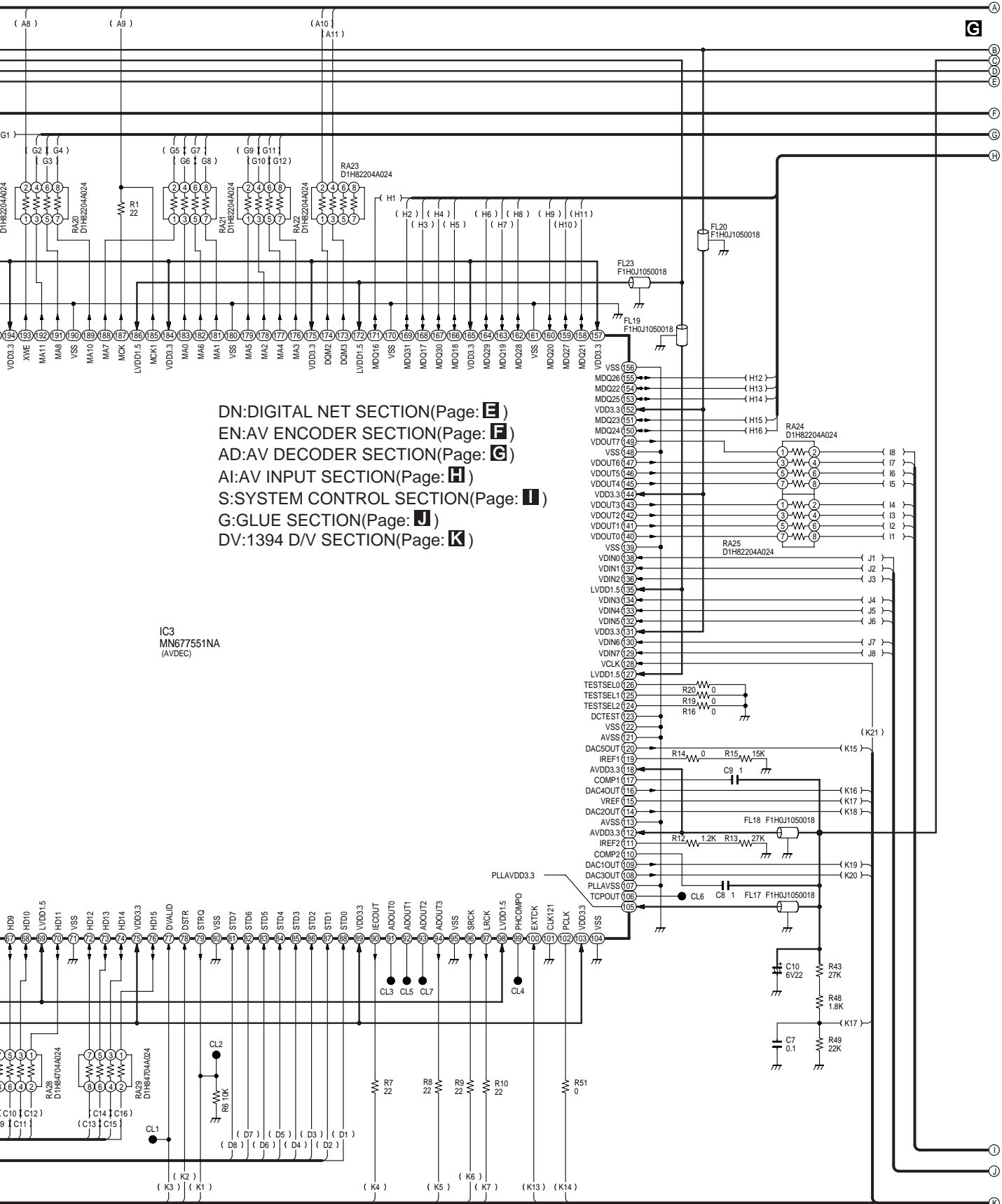
DN: DIGITAL NET SECTION (Page: **E**)
 EN: AV ENCODER SECTION (Page: **F**)
 AD: AV DECODER SECTION (Page: **G**)
 AI: AV INPUT SECTION (Page: **H**)
 S: SYSTEM CONTROL SECTION (Page: **I**)
 G: GLUE SECTION (Page: **J**)
 DV: 1394 D/V SECTION (Page: **K**)

NOTE:
 DO NOT USE ANY PART NUMBER SHOWN ON
 THIS SCHEMATIC DIAGRAM FOR ORDERING.
 WHEN YOU ORDER A PART, PLEASE REFER
 TO PARTS LIST.

DMR-HS2EB/EB1/EG/EG1/GN
 AV-Encoder Section (Digital P.C.B. (2/7))
 Schematic Diagram (EN)

15.10. AV-Decoder Section (Digital P.C.B. (3/7)) Schematic Diagram (AD)

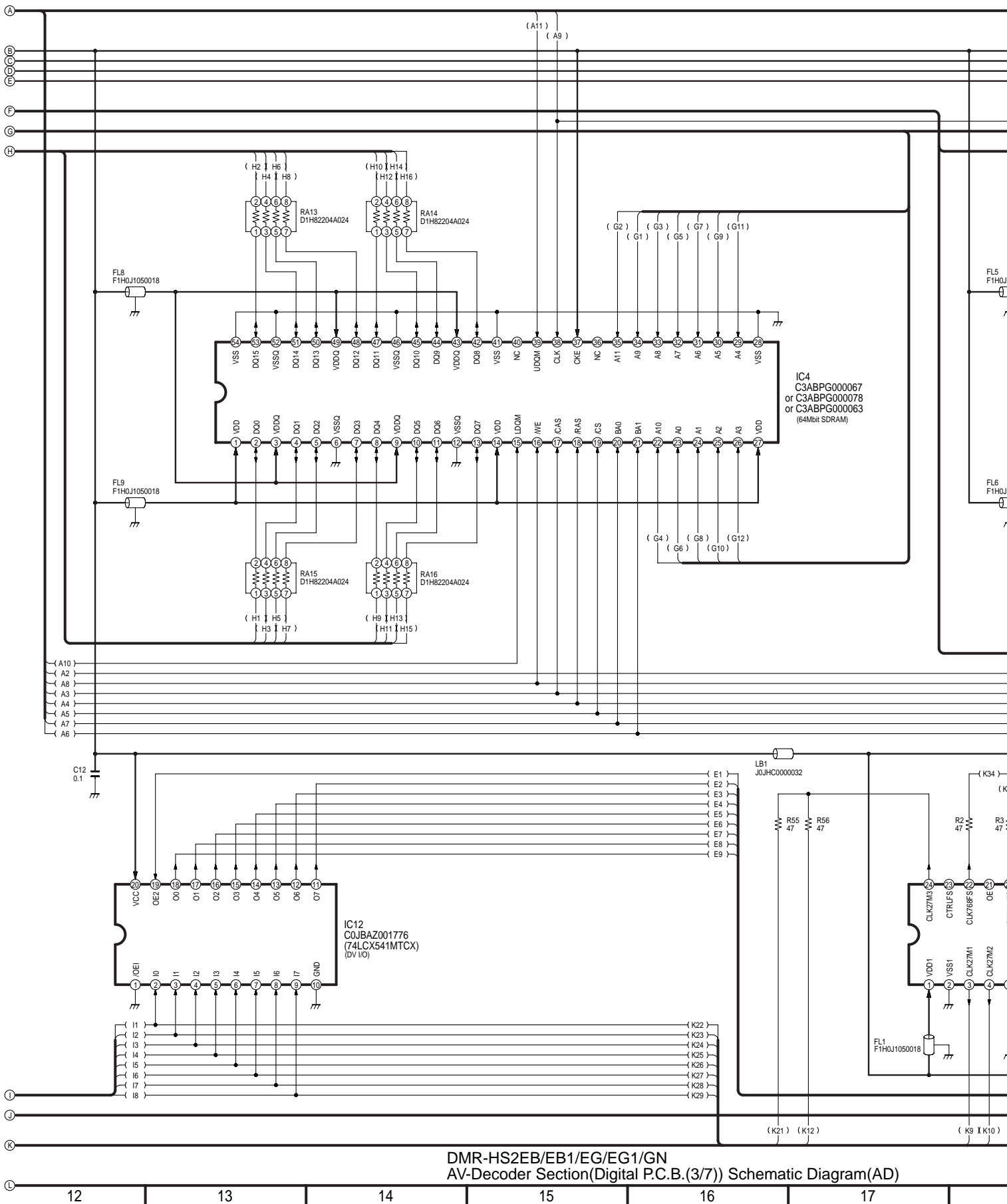




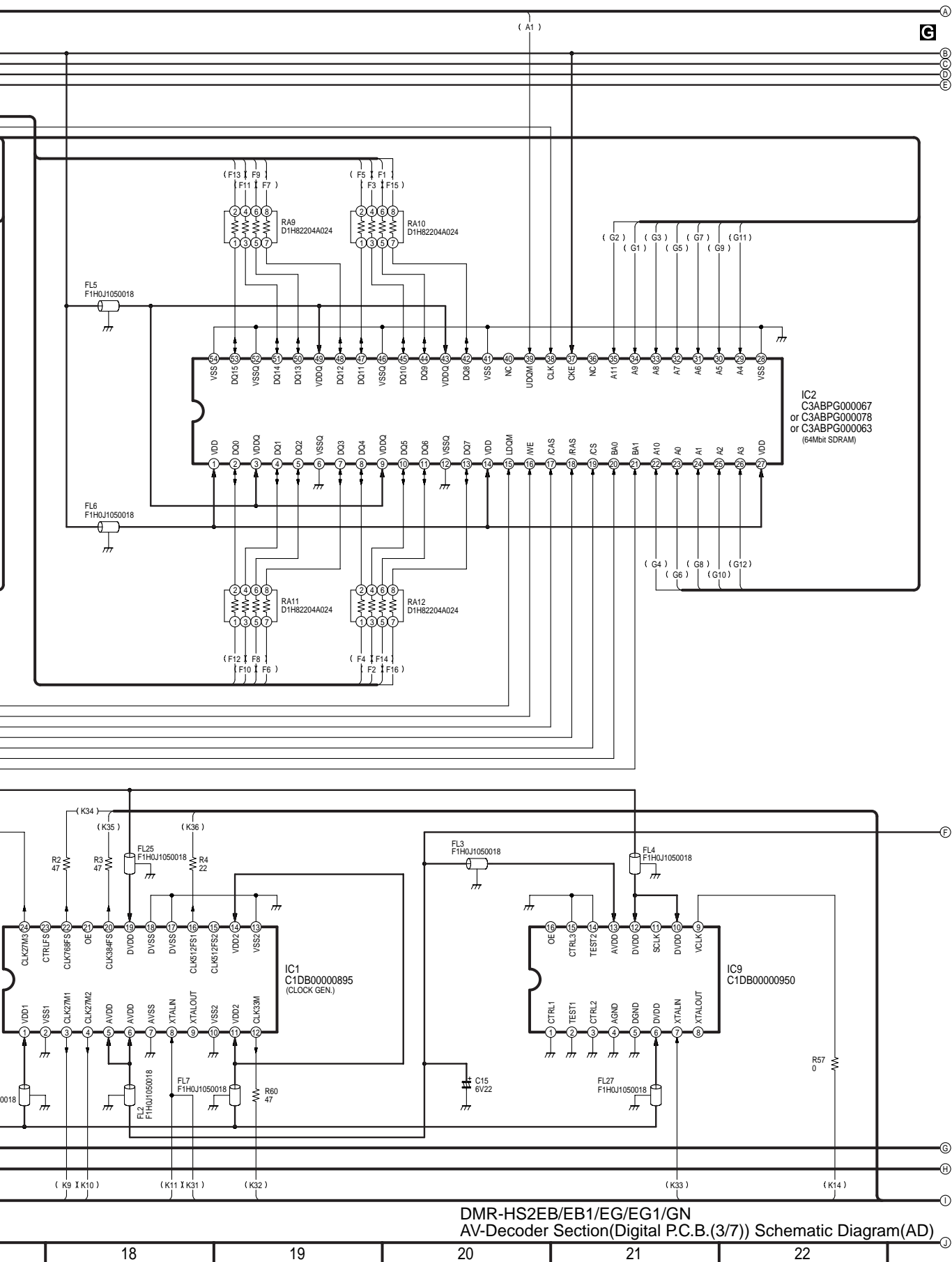
DN: DIGITAL NET SECTION (Page: **E**)
 EN: AV ENCODER SECTION (Page: **F**)
 AD: AV DECODER SECTION (Page: **G**)
 AI: AV INPUT SECTION (Page: **H**)
 S: SYSTEM CONTROL SECTION (Page: **I**)
 G: GLUE SECTION (Page: **J**)
 DV: 1394 D/V SECTION (Page: **K**)

IC3
 M9677551NA
 (AVDEC)

DMR-HS2EB/EB1/EG/EG1/GN
 AV-Decoder Section (Digital P.C.B. 3/7) Schematic Diagram (AD)

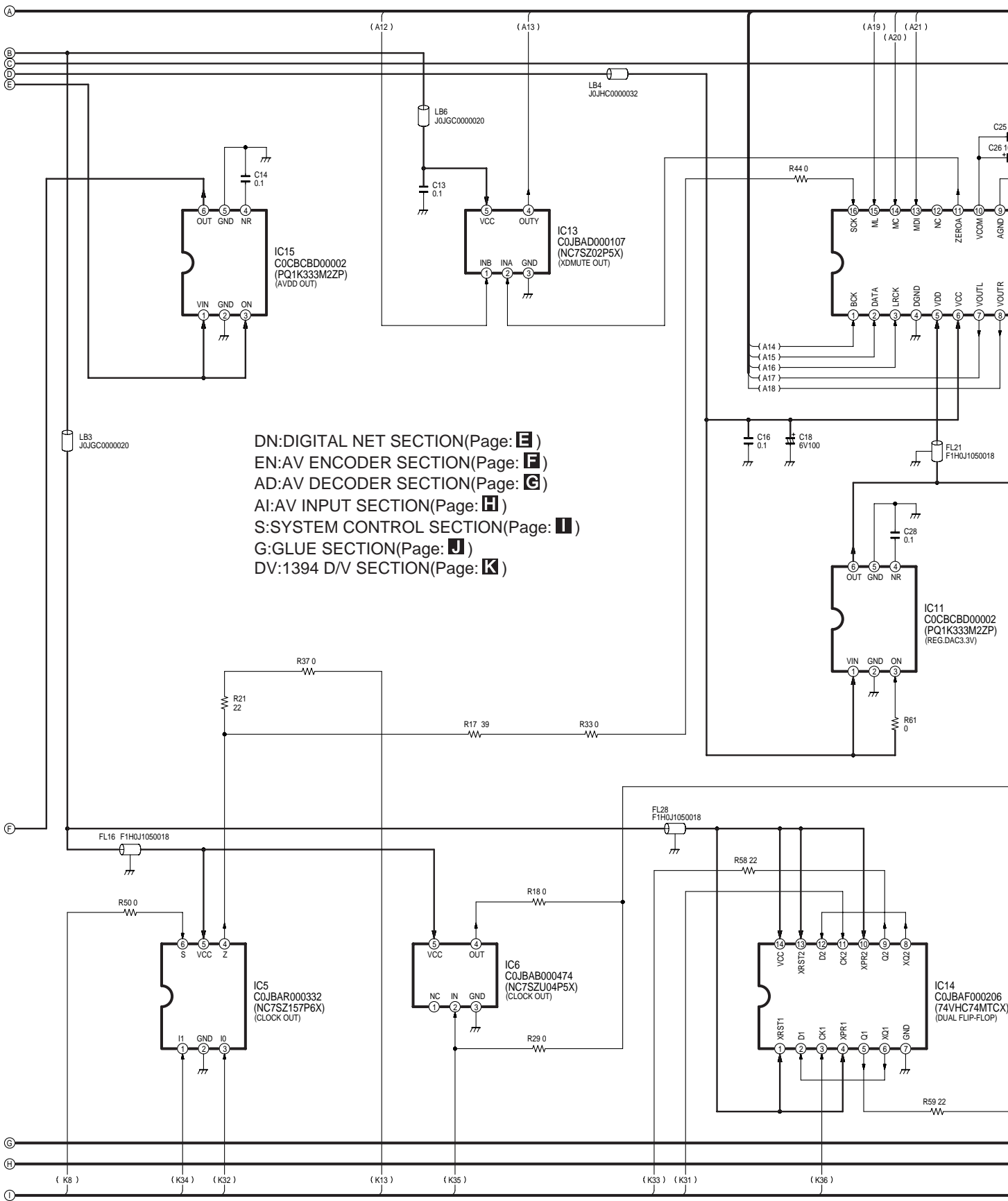


DMR-HS2EB/EB1/EG/EG1/GN
AV-Decoder Section(Digital P.C.B.(3/7)) Schematic Diagram(AD)



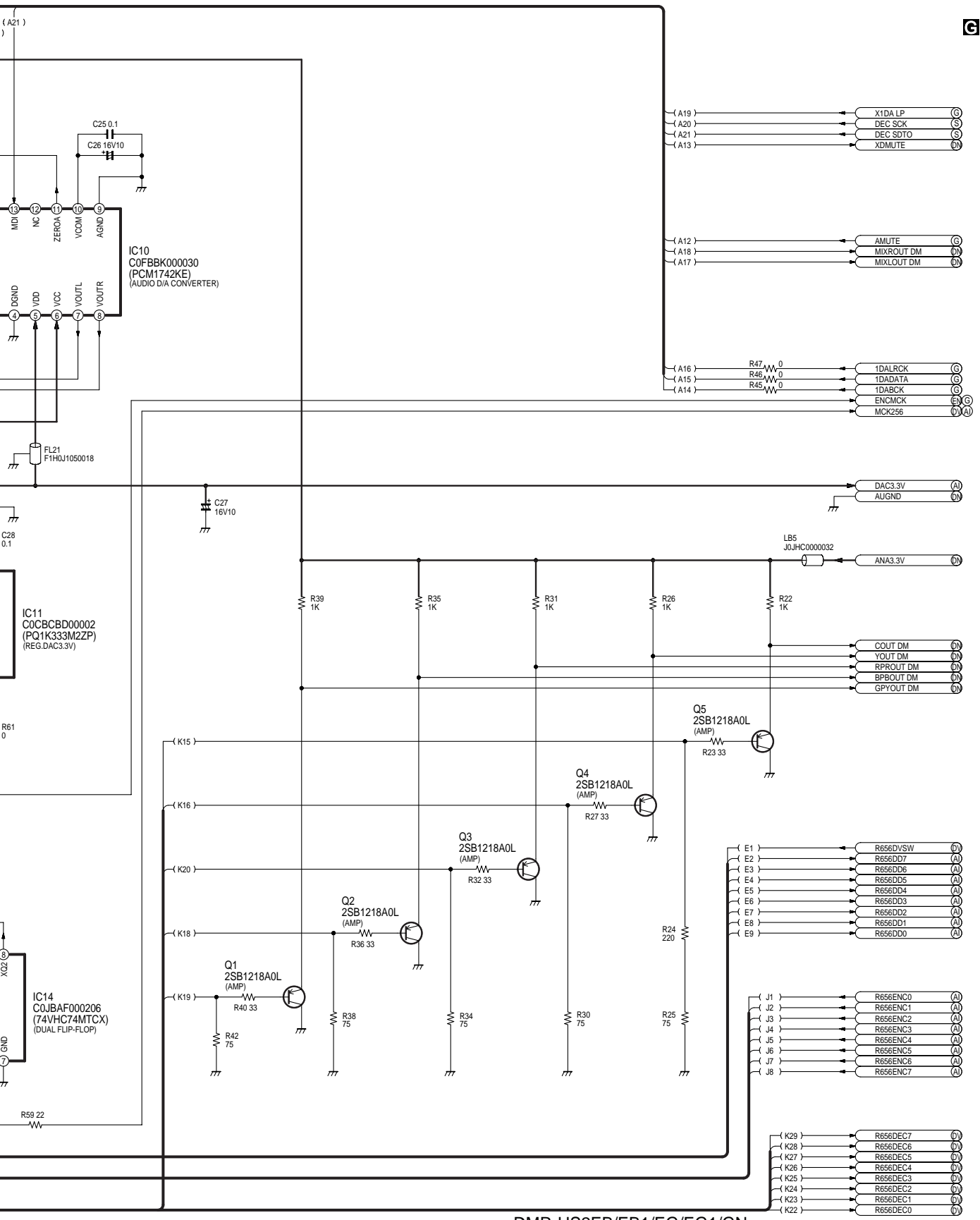
DMR-HS2EB/EB1/EG/EG1/GN
AV-Decoder Section(Digital P.C.B.(3/7)) Schematic Diagram(AD)

18 19 20 21 22



DN: DIGITAL NET SECTION (Page: **E**)
 EN: AV ENCODER SECTION (Page: **F**)
 AD: AV DECODER SECTION (Page: **G**)
 AI: AV INPUT SECTION (Page: **H**)
 S: SYSTEM CONTROL SECTION (Page: **I**)
 G: GLUE SECTION (Page: **J**)
 DV: 1394 D/V SECTION (Page: **K**)

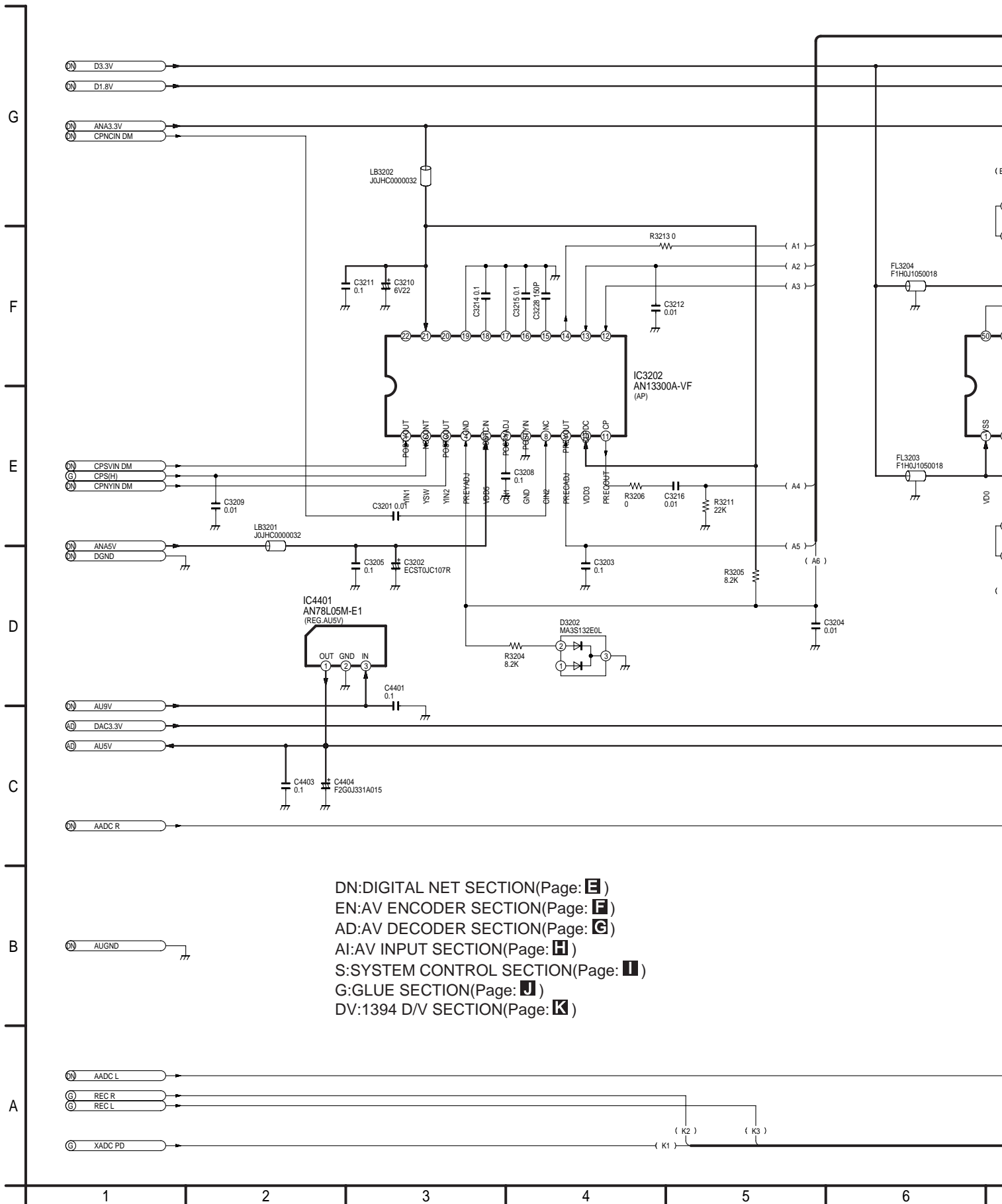
DMR-HS2EB/EB1/EG/EG1/GN
 AV-Decoder Section (Digital P.C.B. (3/7)) Schematic Diagram (AD)

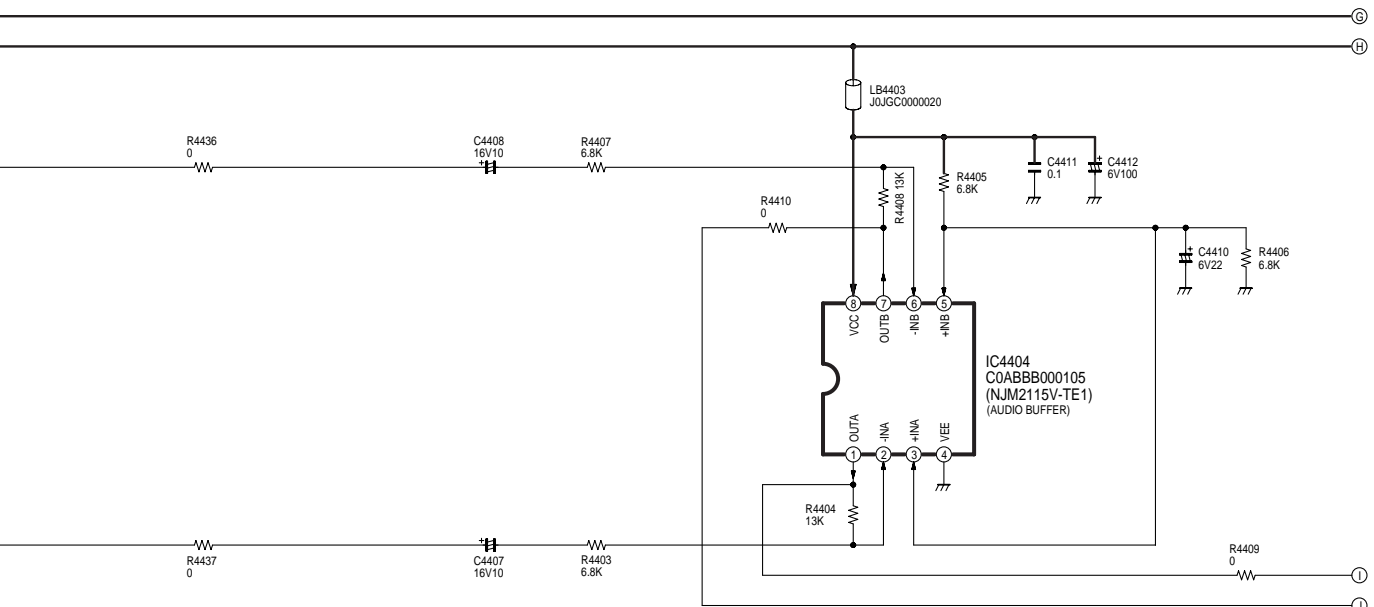
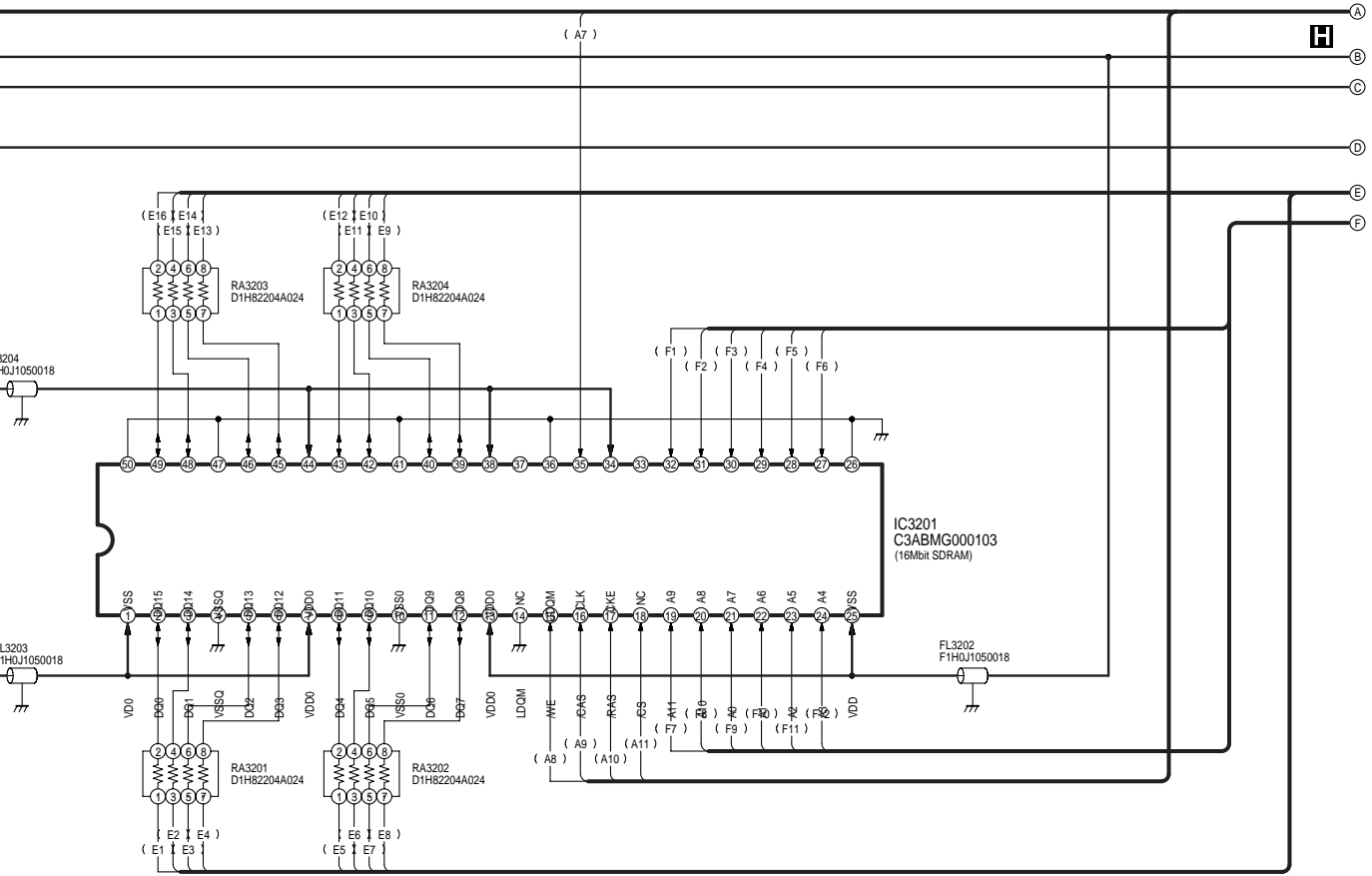


Diagram(AD) REF NO. 50000 SERIES DMR-HS2EB/EB1/EG/EG1/GN AV-Decoder Section(Digital P.C.B.(3/7)) Schematic Diagram(AD)

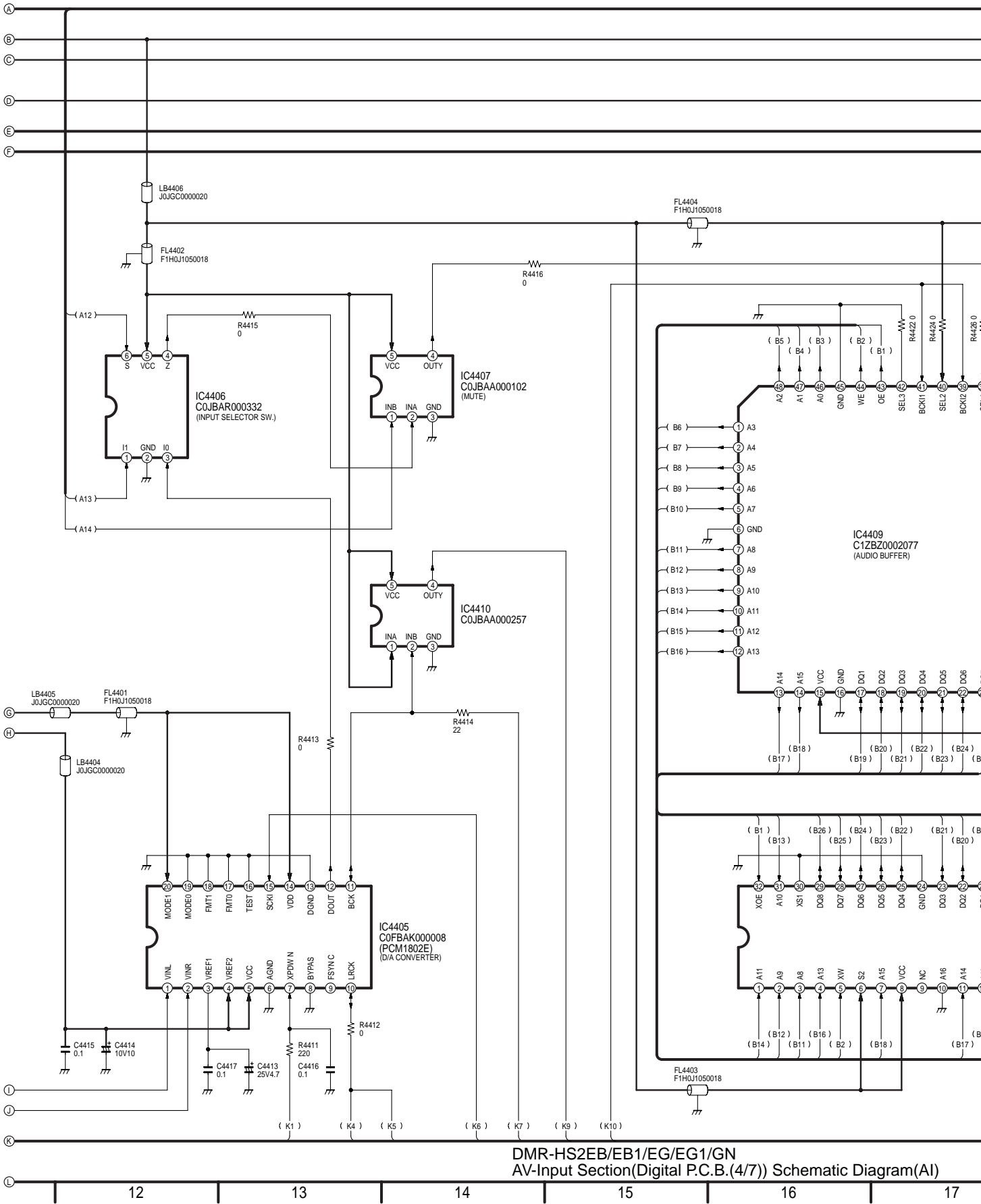
29 30 31 32 33

15.11. AV-Input Section (Digital P.C.B. (4/7)) Schematic Diagram (AI)

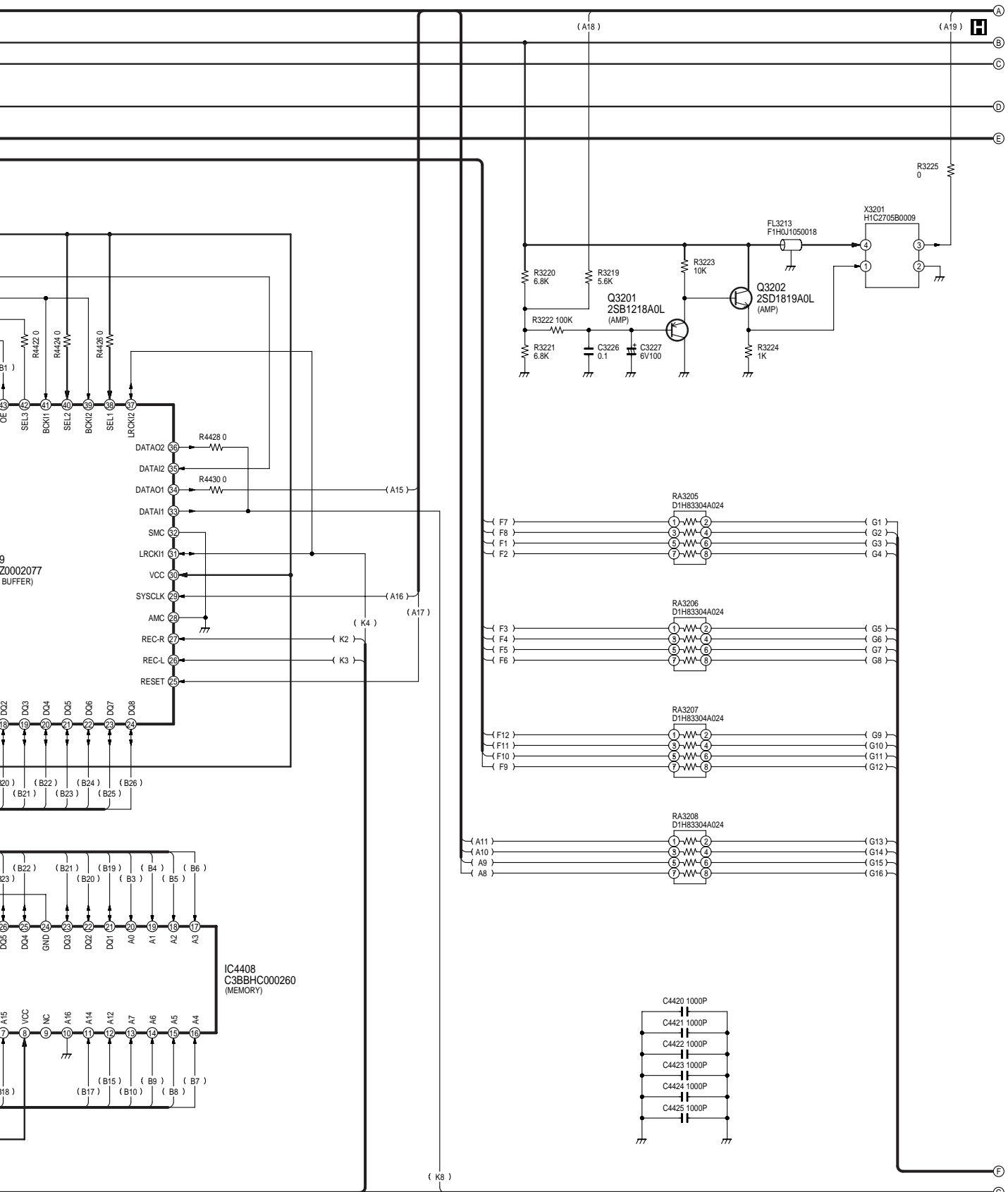




DMR-HS2EB/EB1/EG/EG1/GN
AV-Input Section(Digital P.C.B.(4/7)) Schematic Diagram(AI)

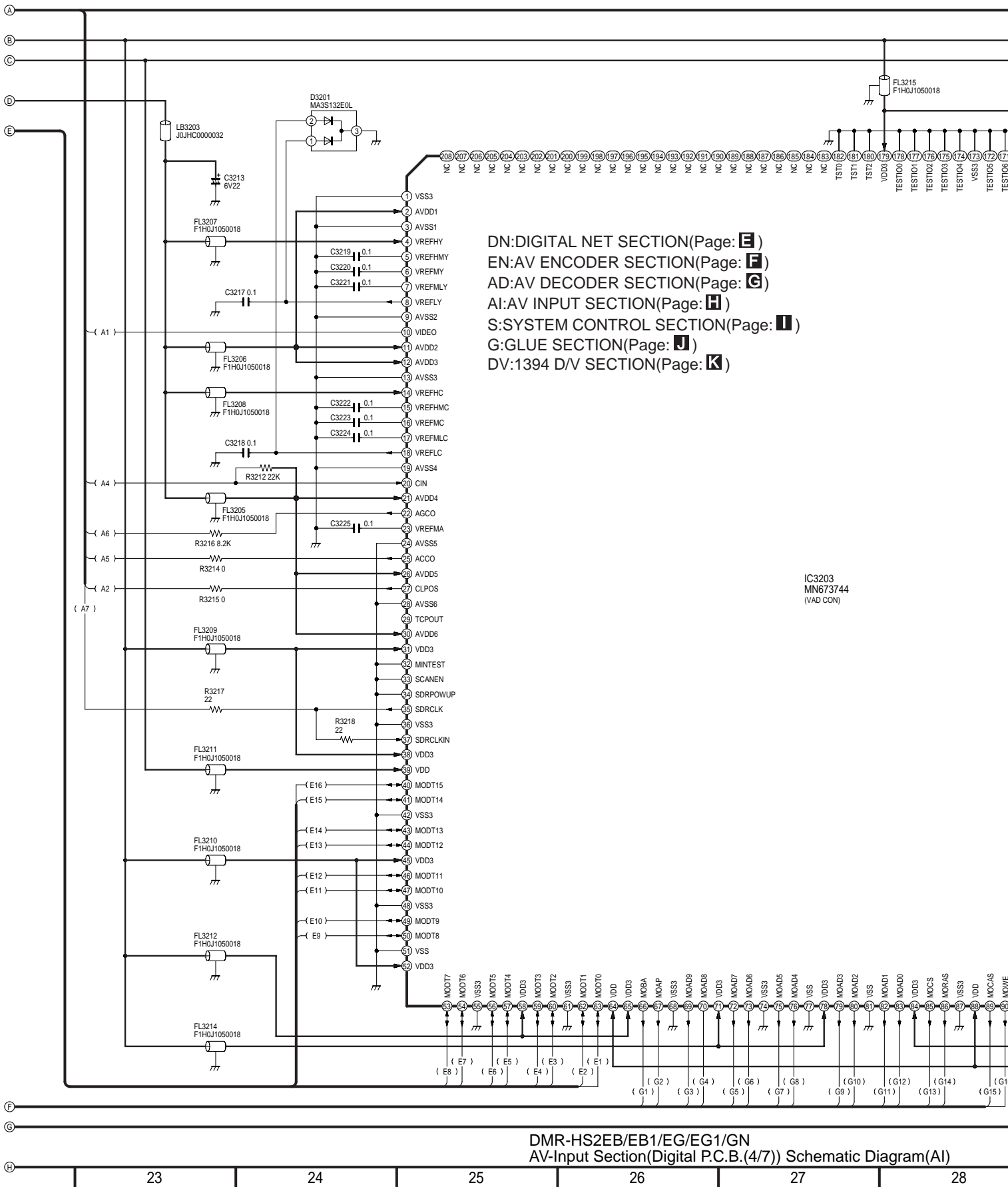


DMR-HS2EB/EB1/EG/EG1/GN
AV-Input Section(Digital P.C.B.(4/7)) Schematic Diagram(AI)

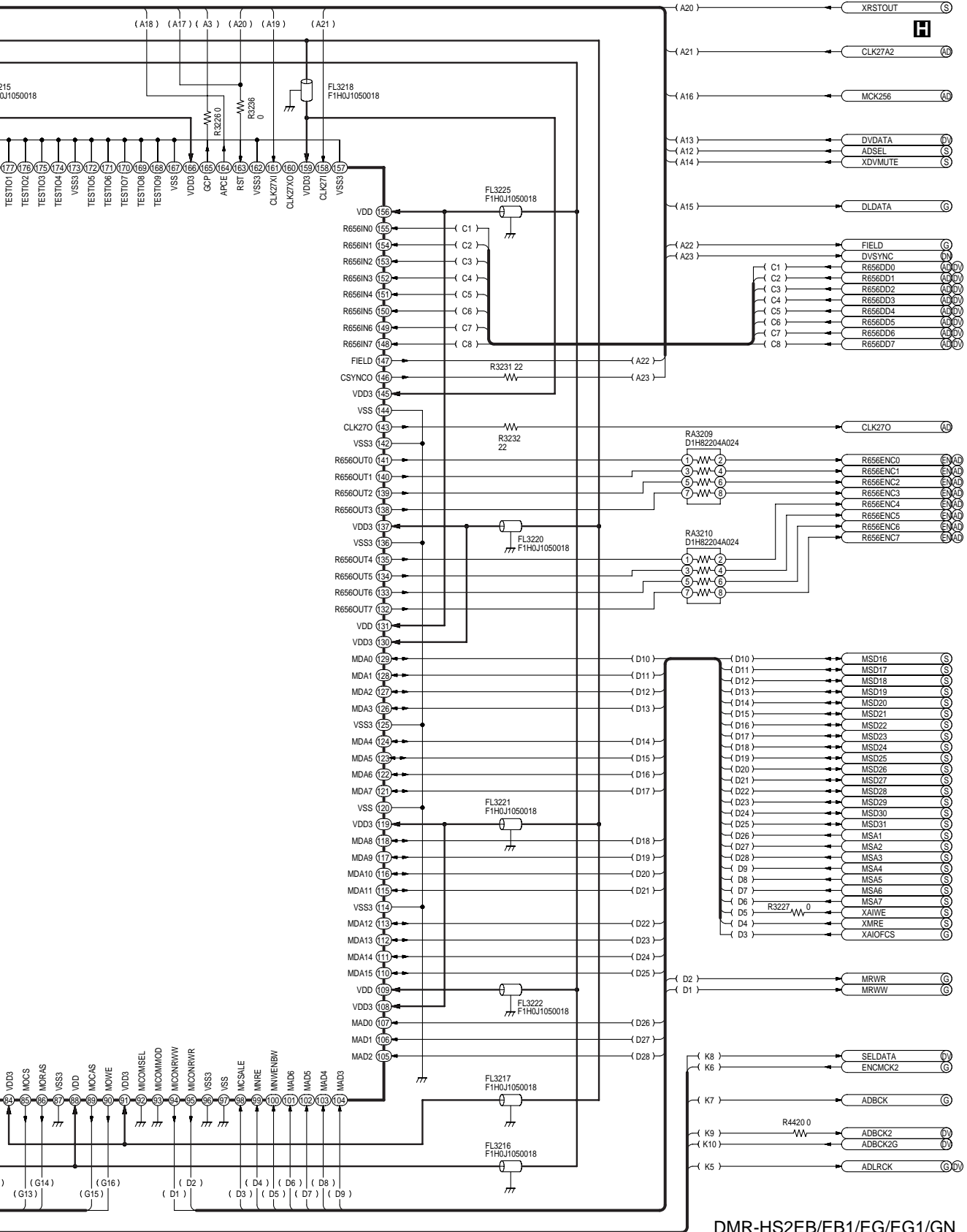


Diagram(AI) DMR-HS2EB/EB1/EG/EG1/GN AV-Input Section(Digital P.C.B.(4/7)) Schematic Diagram(AI)

17 18 19 20 21 22



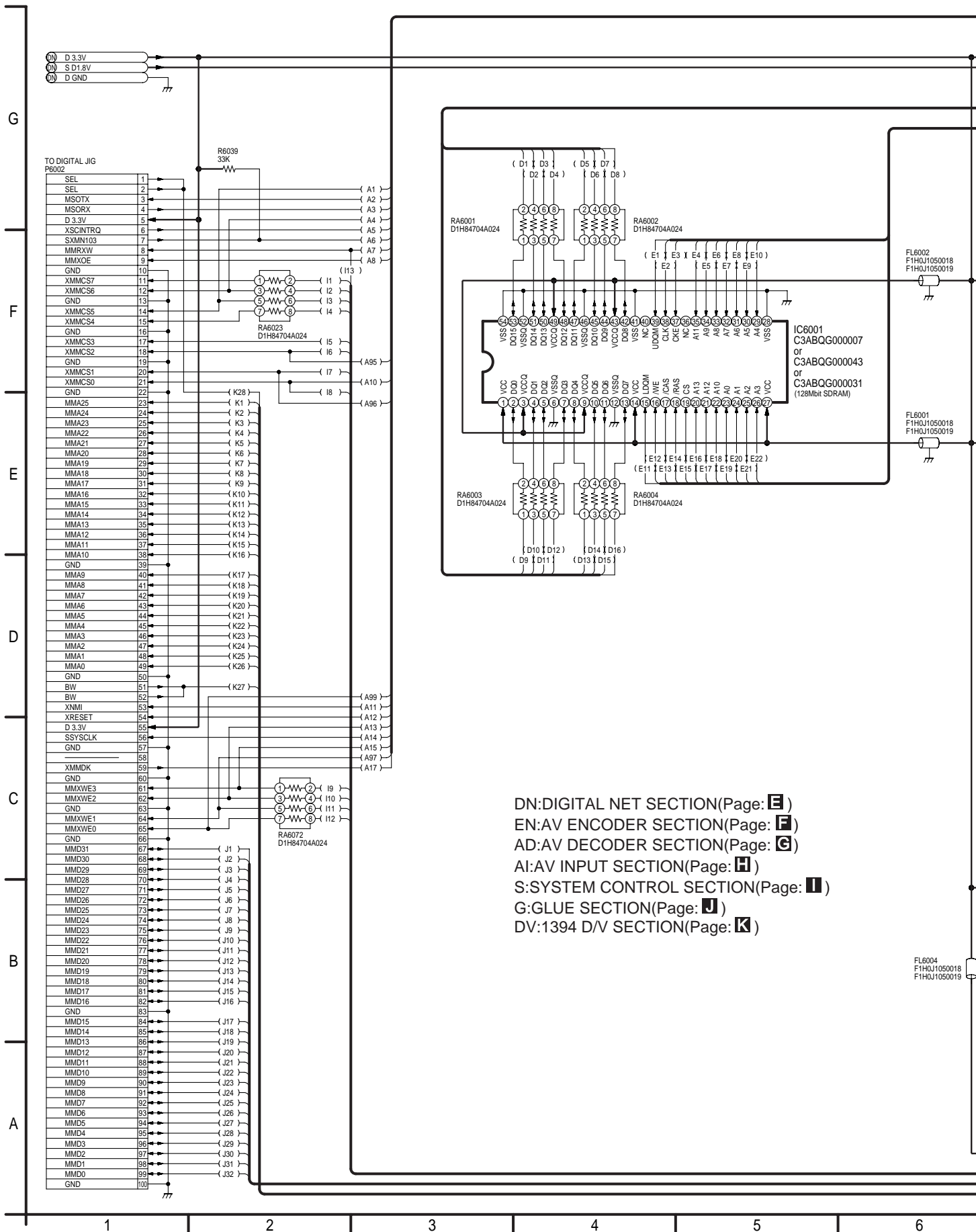
DMR-HS2EB/EB1/EG/EG1/GN
 AV-Input Section (Digital P.C.B. (4/7)) Schematic Diagram (AI)



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

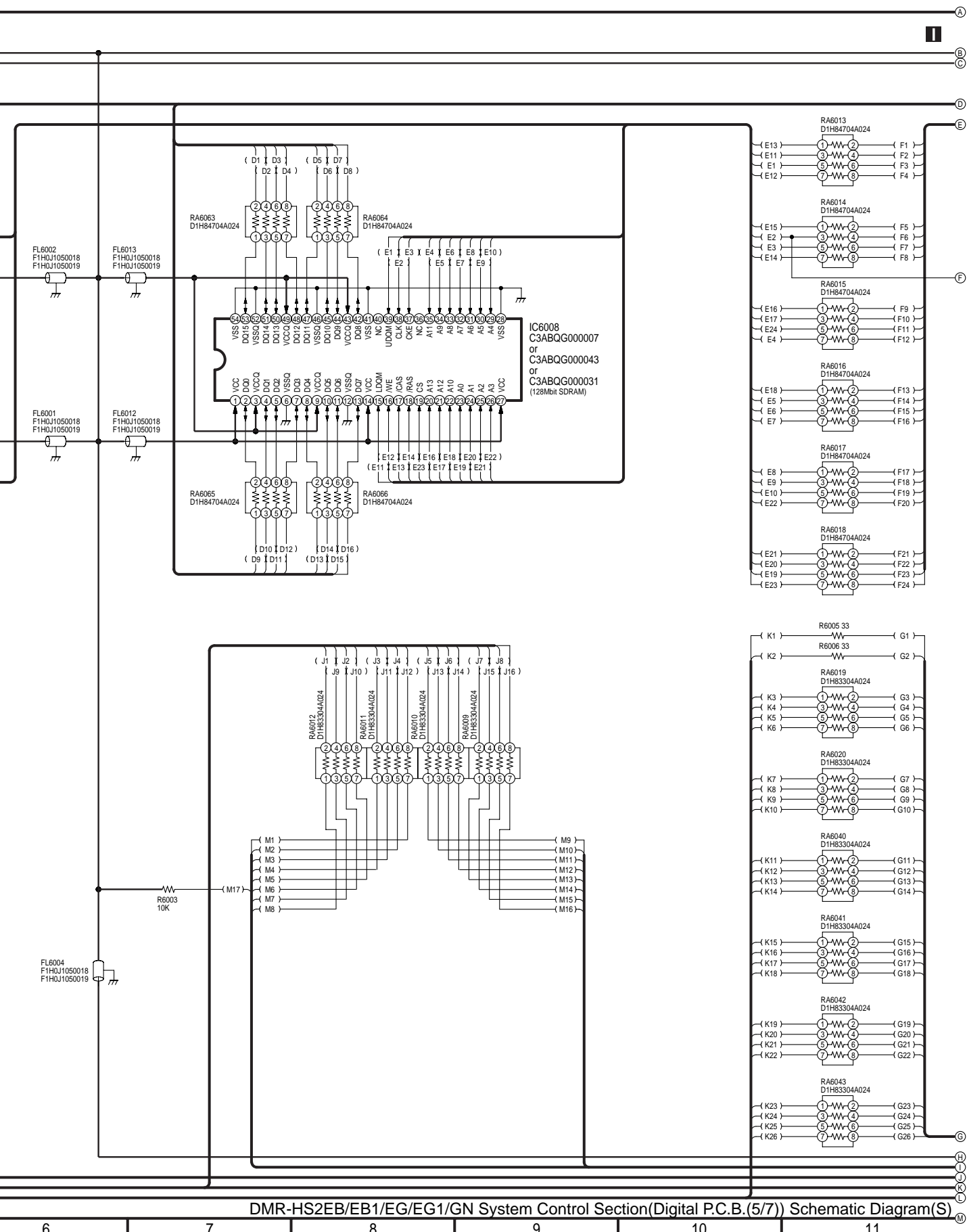
DMR-HS2EB/EB1/EG/EG1/GN
AV-Input Section(Digital P.C.B.(4/7))
Schematic Diagram(AI)

15.12. System Control Section (Digital P.C.B. (5/7)) Schematic Diagram (S)

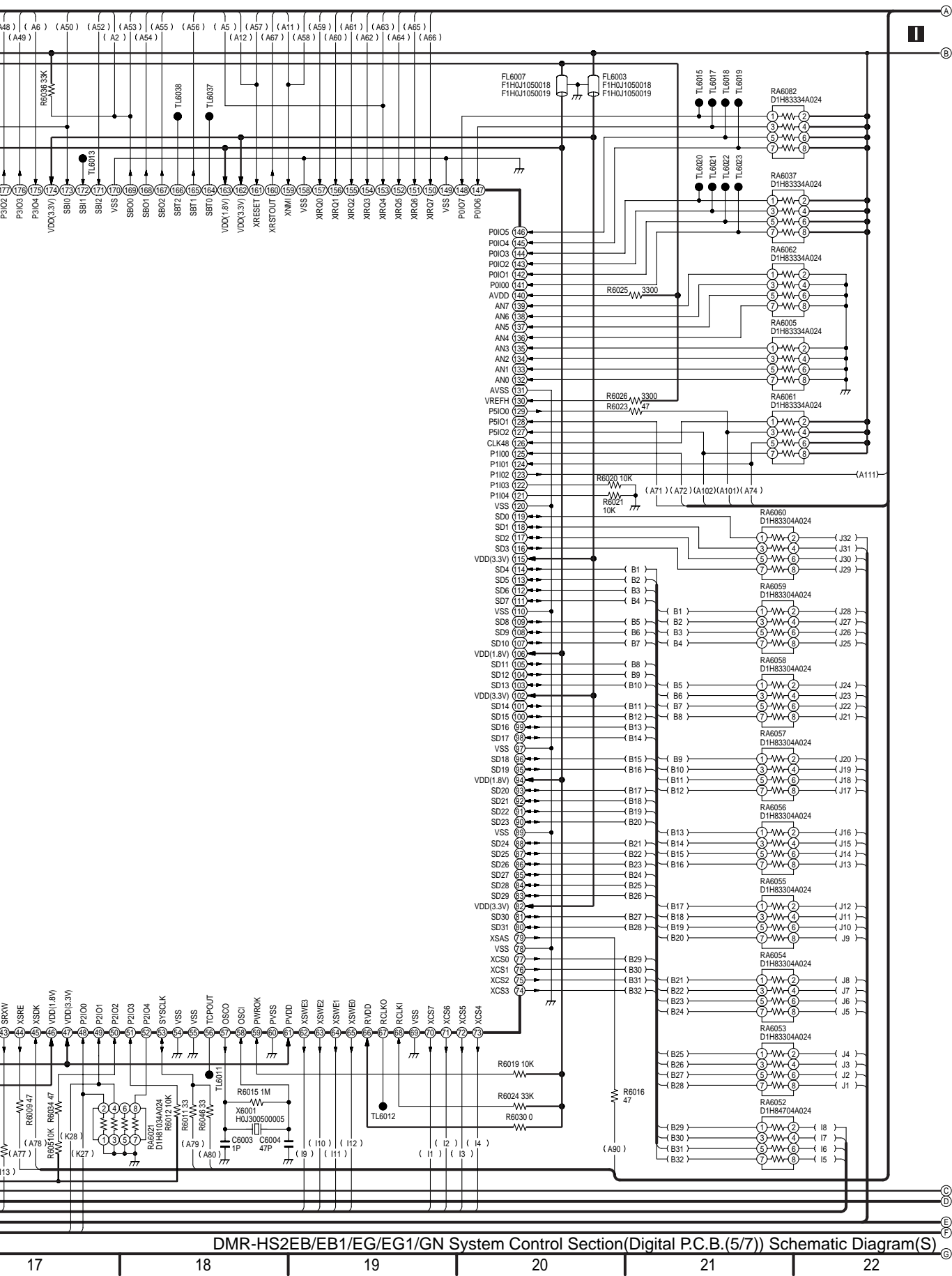


DN: DIGITAL NET SECTION (Page: **E**)
 EN: AV ENCODER SECTION (Page: **F**)
 AD: AV DECODER SECTION (Page: **G**)
 AI: AV INPUT SECTION (Page: **H**)
 S: SYSTEM CONTROL SECTION (Page: **I**)
 G: GLUE SECTION (Page: **J**)
 DV: 1394 D/V SECTION (Page: **K**)

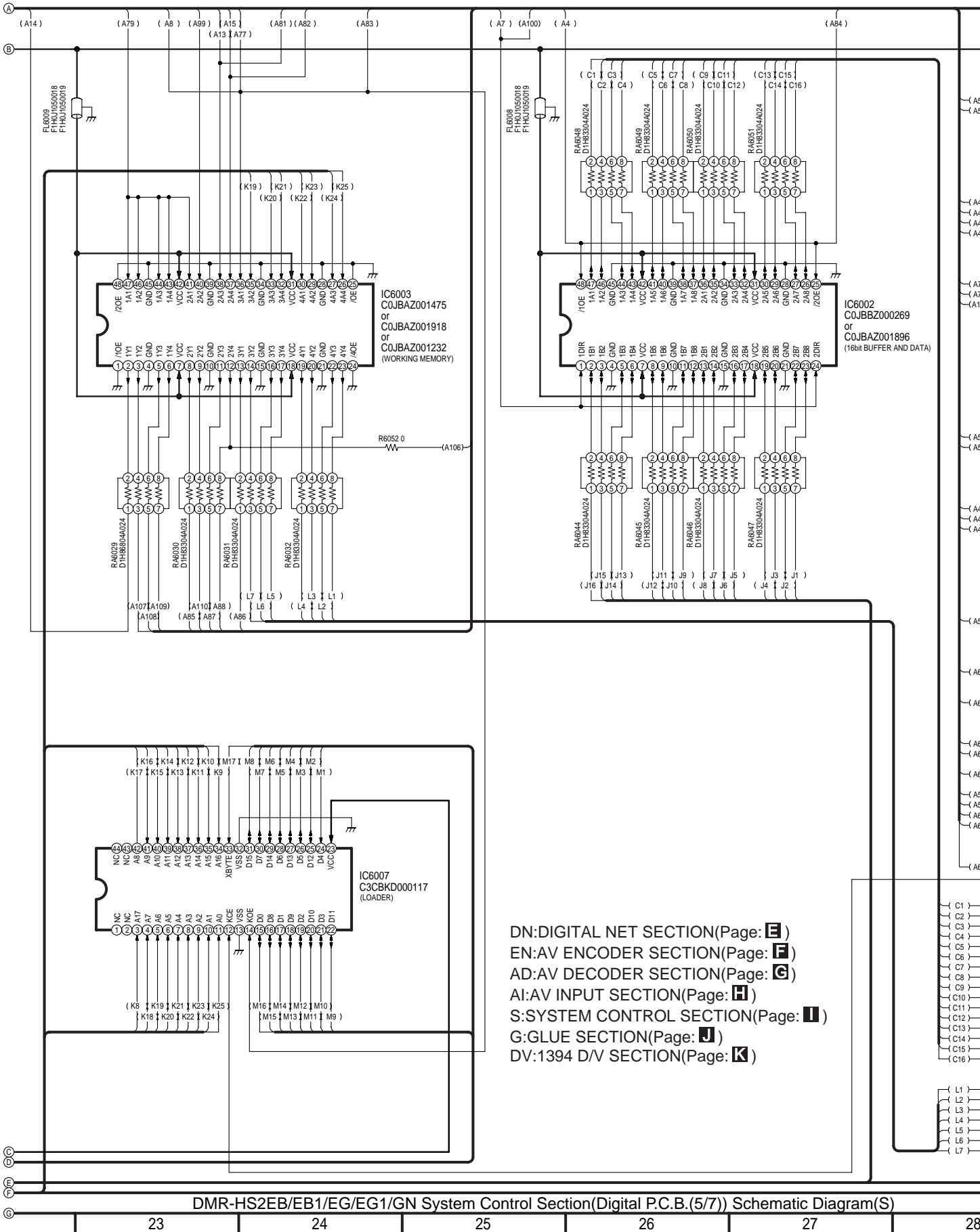
b)



DMR-HS2EB/EB1/EG/EG1/GN System Control Section(Digital P.C.B.(5/7)) Schematic Diagram(S)



DMR-HS2EB/EB1/EG/EG1/GN System Control Section(Digital P.C.B.(5/7)) Schematic Diagram(S)



DN: DIGITAL NET SECTION (Page: **E**)
 EN: AV ENCODER SECTION (Page: **F**)
 AD: AV DECODER SECTION (Page: **G**)
 AI: AV INPUT SECTION (Page: **H**)
 S: SYSTEM CONTROL SECTION (Page: **I**)
 G: GLUE SECTION (Page: **J**)
 DV: 1394 D/V SECTION (Page: **K**)

DMR-HS2EB/EB1/EG/EG1/GN System Control Section (Digital P.C.B. (5/7)) Schematic Diagram (S)

23

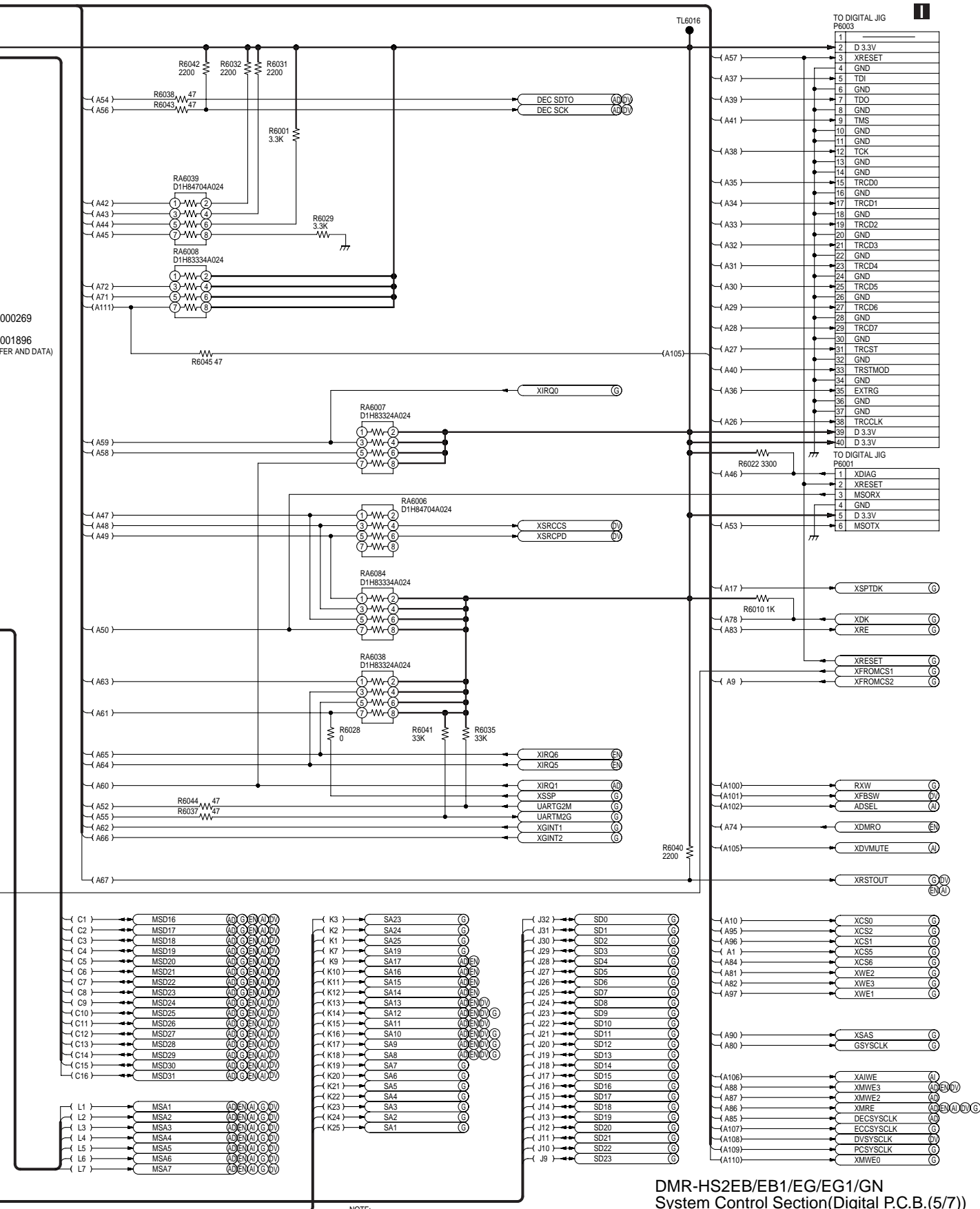
24

25

26

27

28

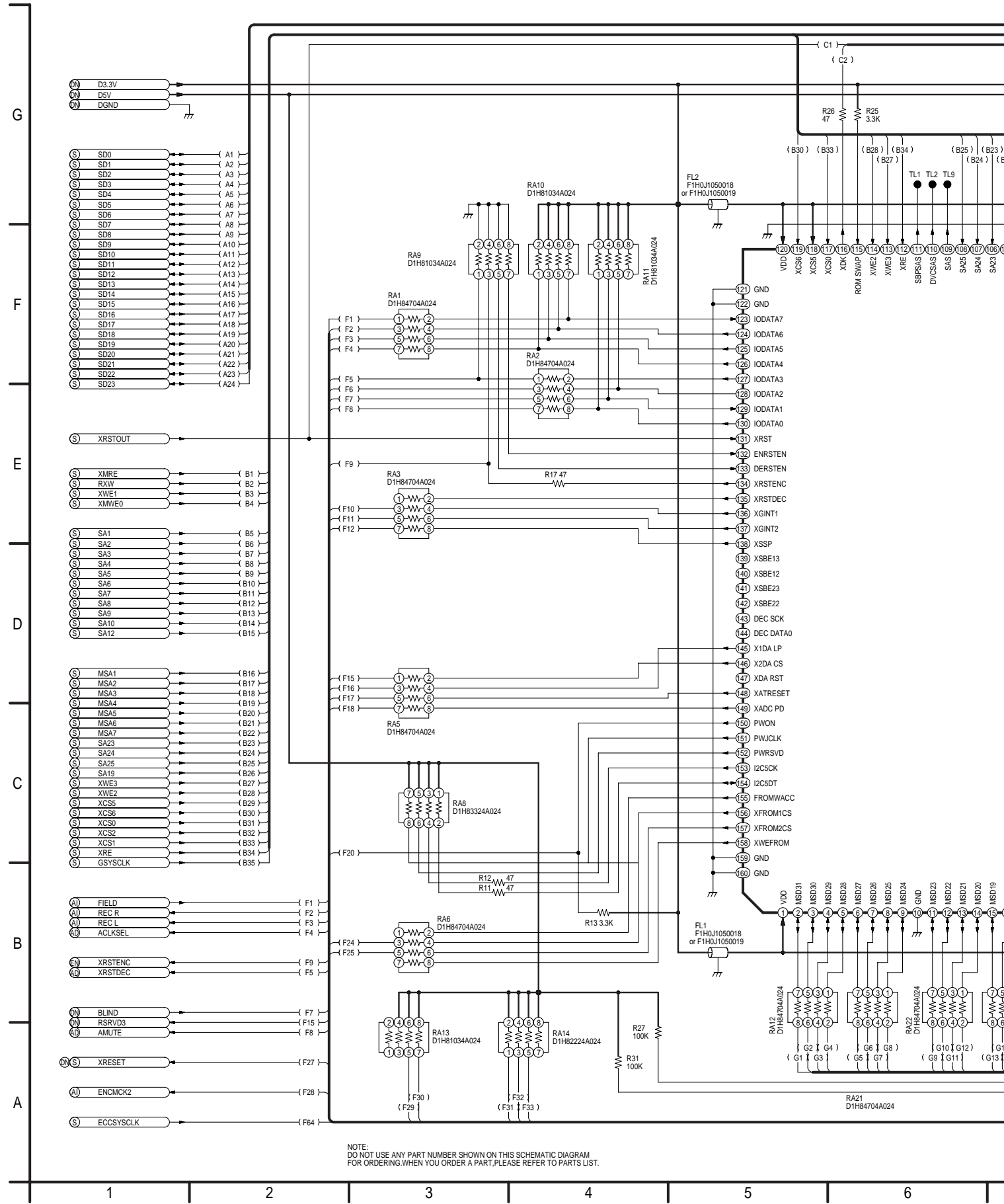


000269
001896
FER AND DATA)

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

DMR-HS2EB/EB1/EG/EG1/GN
System Control Section(Digital P.C.B.(5/7))
Schematic Diagram(S)

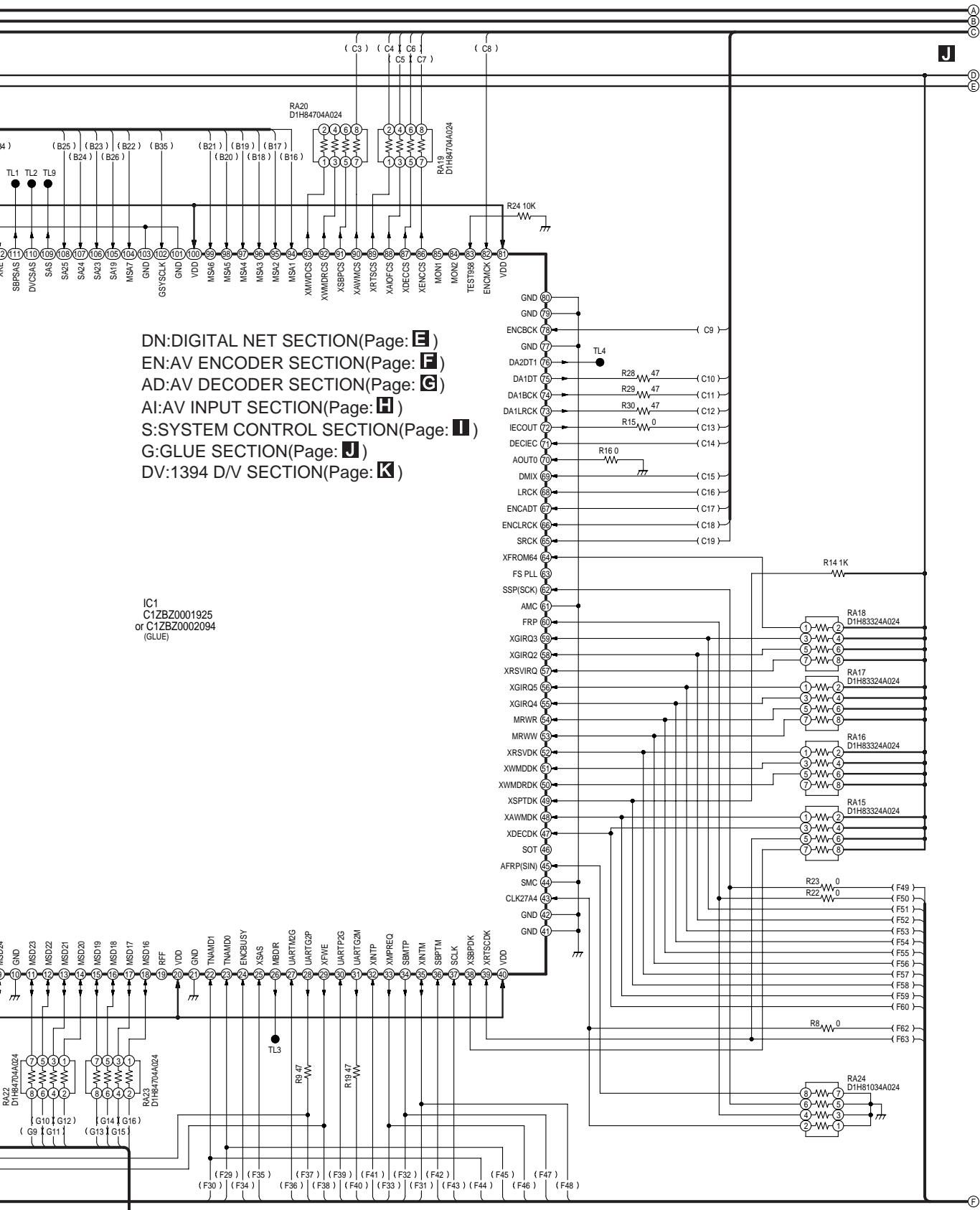
15.13. Glue Section (Digital P.C.B. (6/7)) Schematic Diagram (G)



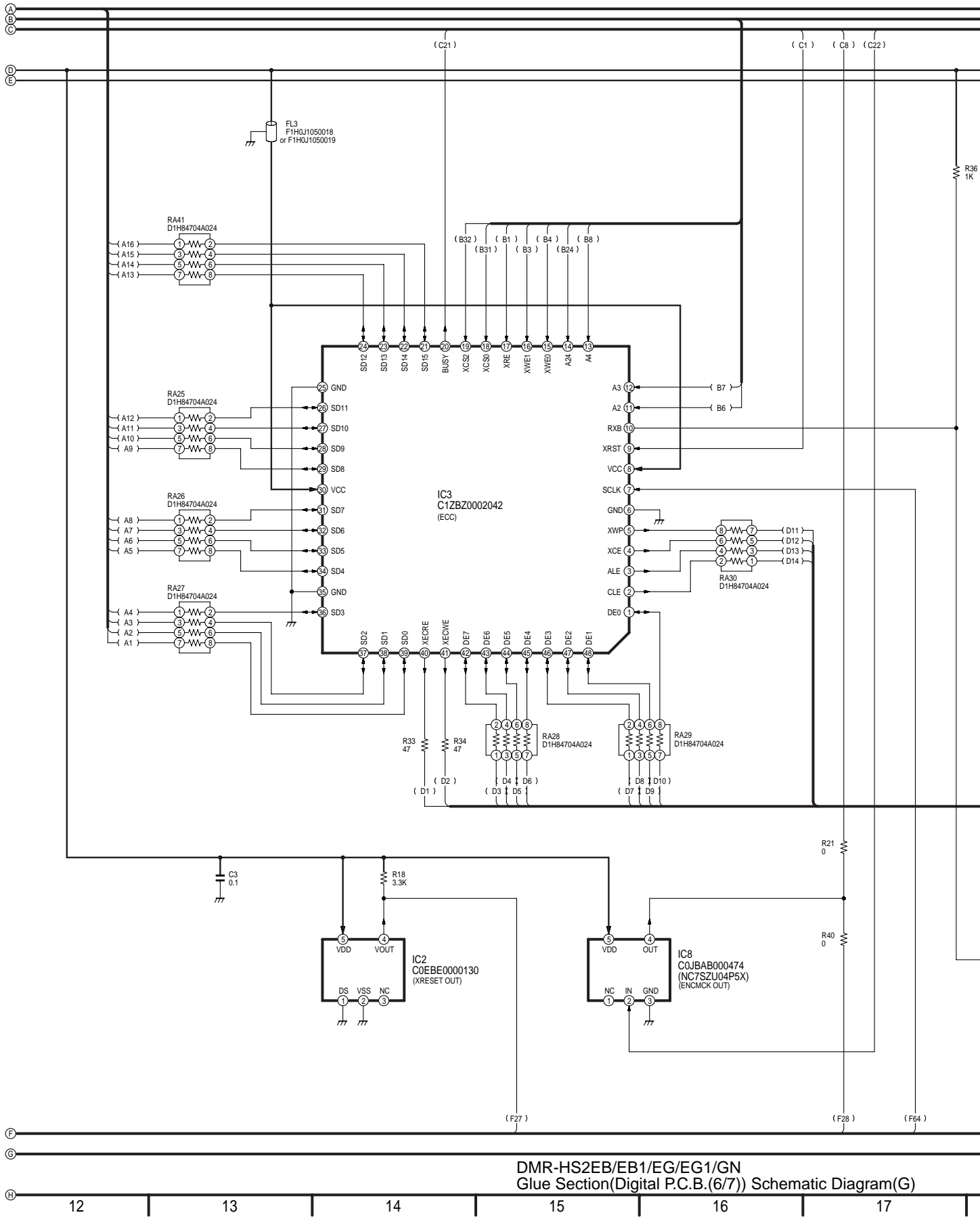
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

DN: DIGITAL NET SECTION (Page: **E**)
 EN: AV ENCODER SECTION (Page: **F**)
 AD: AV DECODER SECTION (Page: **G**)
 AI: AV INPUT SECTION (Page: **H**)
 S: SYSTEM CONTROL SECTION (Page: **I**)
 G: GLUE SECTION (Page: **J**)
 DV: 1394 D/V SECTION (Page: **K**)

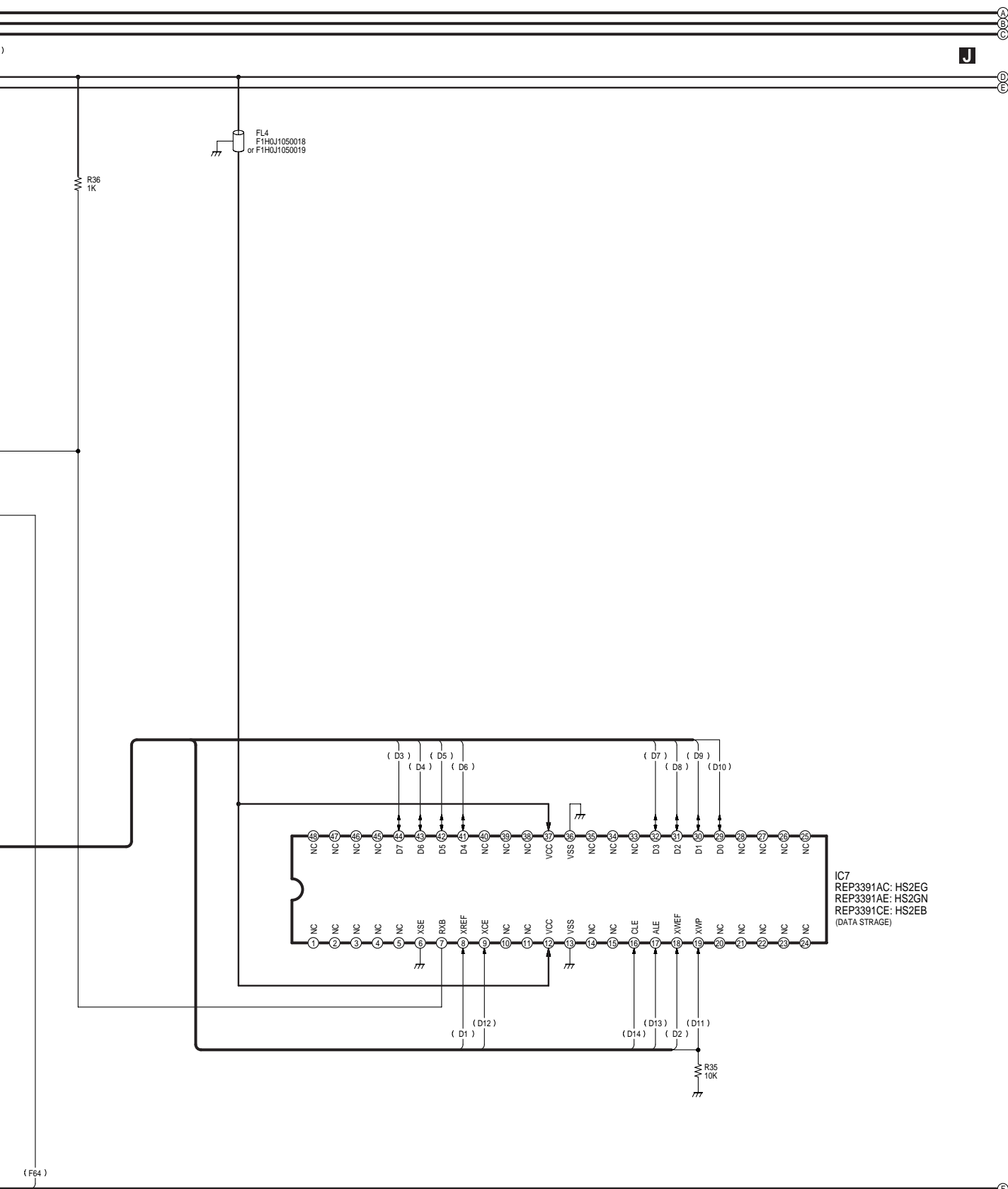
IC1
 C1ZBZ0001925
 or C1ZBZ0002094
 (GLUE)



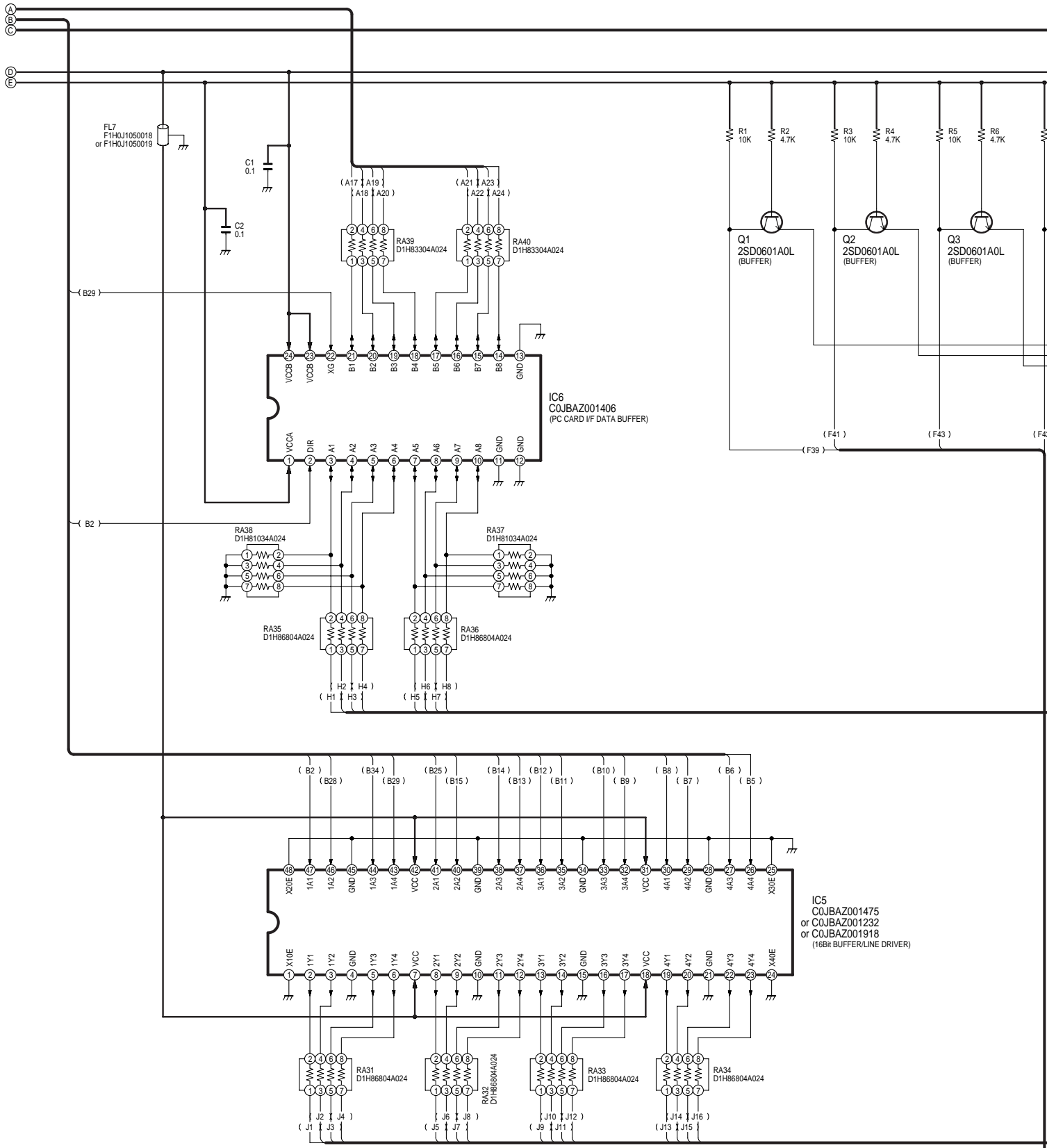
DMR-HS2EB/EB1/EG/EG1/GN
 Glue Section (Digital P.C.B. (6/7)) Schematic Diagram (G)



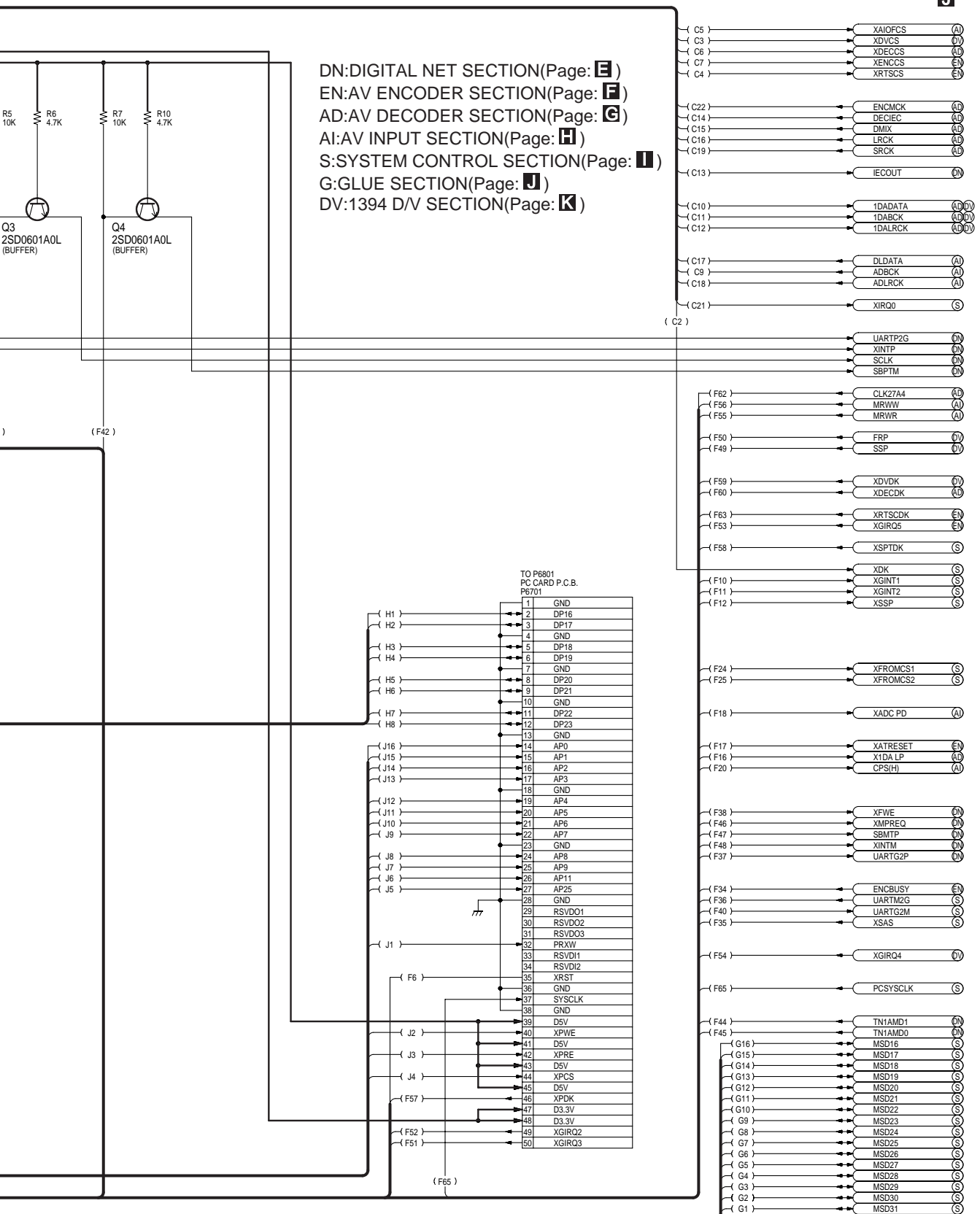
DMR-HS2EB/EB1/EG/EG1/GN
Glue Section(Digital P.C.B.(6/7)) Schematic Diagram(G)



DMR-HS2EB/EB1/EG/EG1/GN
Glue Section(Digital P.C.B.(6/7)) Schematic Diagram(G)



DMR-HS2EB/EB1/EG/EG1/GN
Glue Section(Digital P.C.B.(6/7)) Schematic Diagram(G)



DN: DIGITAL NET SECTION (Page: **E**)
 EN: AV ENCODER SECTION (Page: **F**)
 AD: AV DECODER SECTION (Page: **G**)
 AI: AV INPUT SECTION (Page: **H**)
 S: SYSTEM CONTROL SECTION (Page: **I**)
 G: GLUE SECTION (Page: **J**)
 DV: 1394 D/V SECTION (Page: **K**)

TO P6801
 PC CARD P.C.B.
 P6701

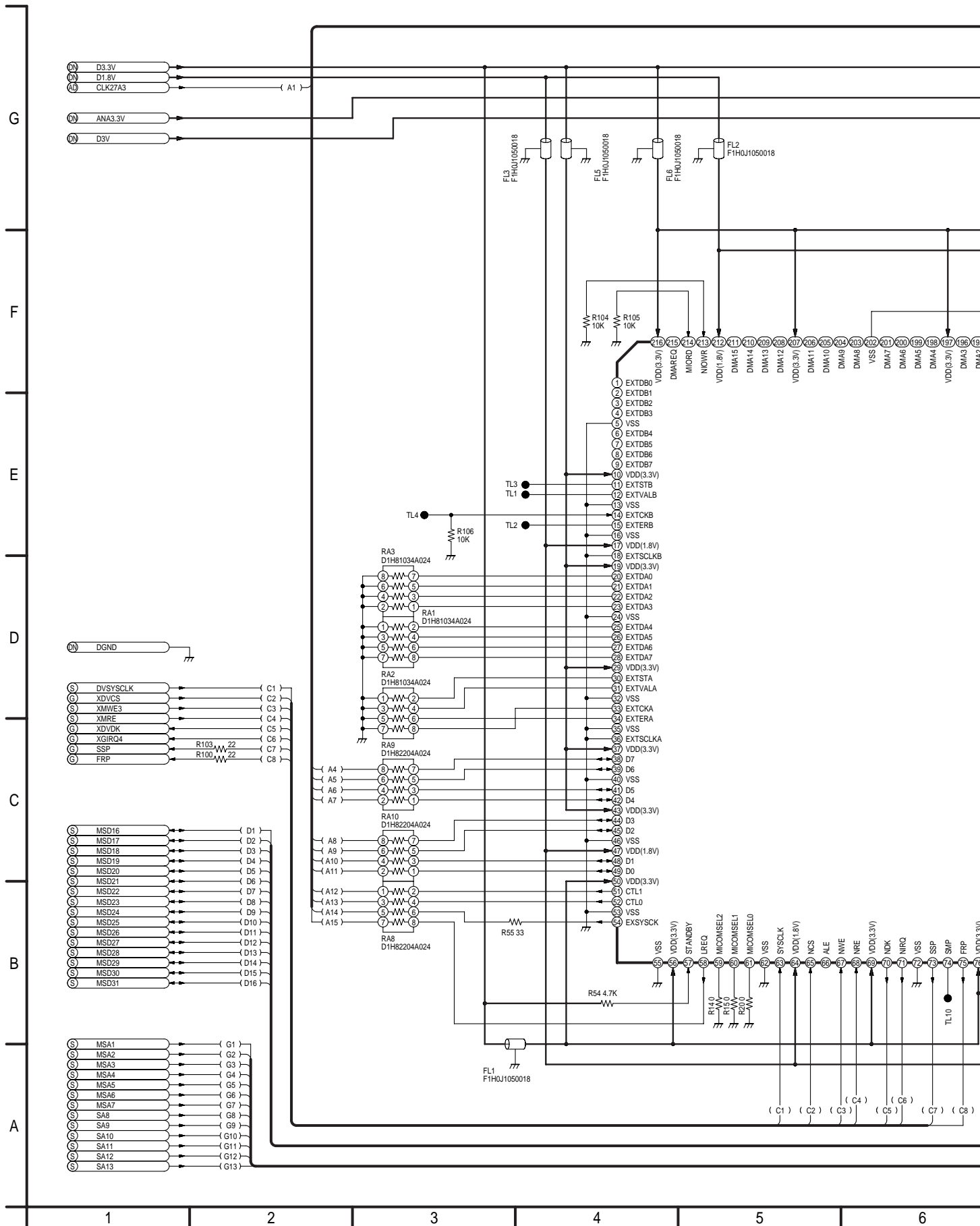
(H1)	1	GND
(H2)	2	DP16
(H3)	3	DP17
(H4)	4	GND
(H5)	5	DP18
(H6)	6	DP19
(H7)	7	GND
(H8)	8	DP20
(H9)	9	DP21
(H10)	10	GND
(H11)	11	DP22
(H12)	12	DP23
(H13)	13	GND
(J16)	14	AP0
(J15)	15	AP1
(J14)	16	AP2
(J13)	17	AP3
(J12)	18	GND
(J11)	19	AP4
(J10)	20	AP5
(J9)	21	AP6
(J8)	22	AP7
(J7)	23	GND
(J6)	24	AP8
(J5)	25	AP9
(J4)	26	AP11
(J3)	27	AP25
(J2)	28	GND
(J1)	29	RSVDO1
(F6)	30	RSVDO2
(F5)	31	RSVDO3
(F4)	32	PRXW
(F3)	33	RSVDH1
(F2)	34	RSVDH2
(F1)	35	XRST
(F57)	36	GND
(F56)	37	SYSCLK
(F55)	38	GND
(F54)	39	DSV
(F53)	40	XPWE
(F52)	41	DSV
(F51)	42	XPRE
(F50)	43	DSV
(F49)	44	XPCS
(F48)	45	DSV
(F47)	46	XPDK
(F46)	47	D3.3V
(F45)	48	D3.3V
(F44)	49	XGIRO2
(F43)	50	XGIRO3

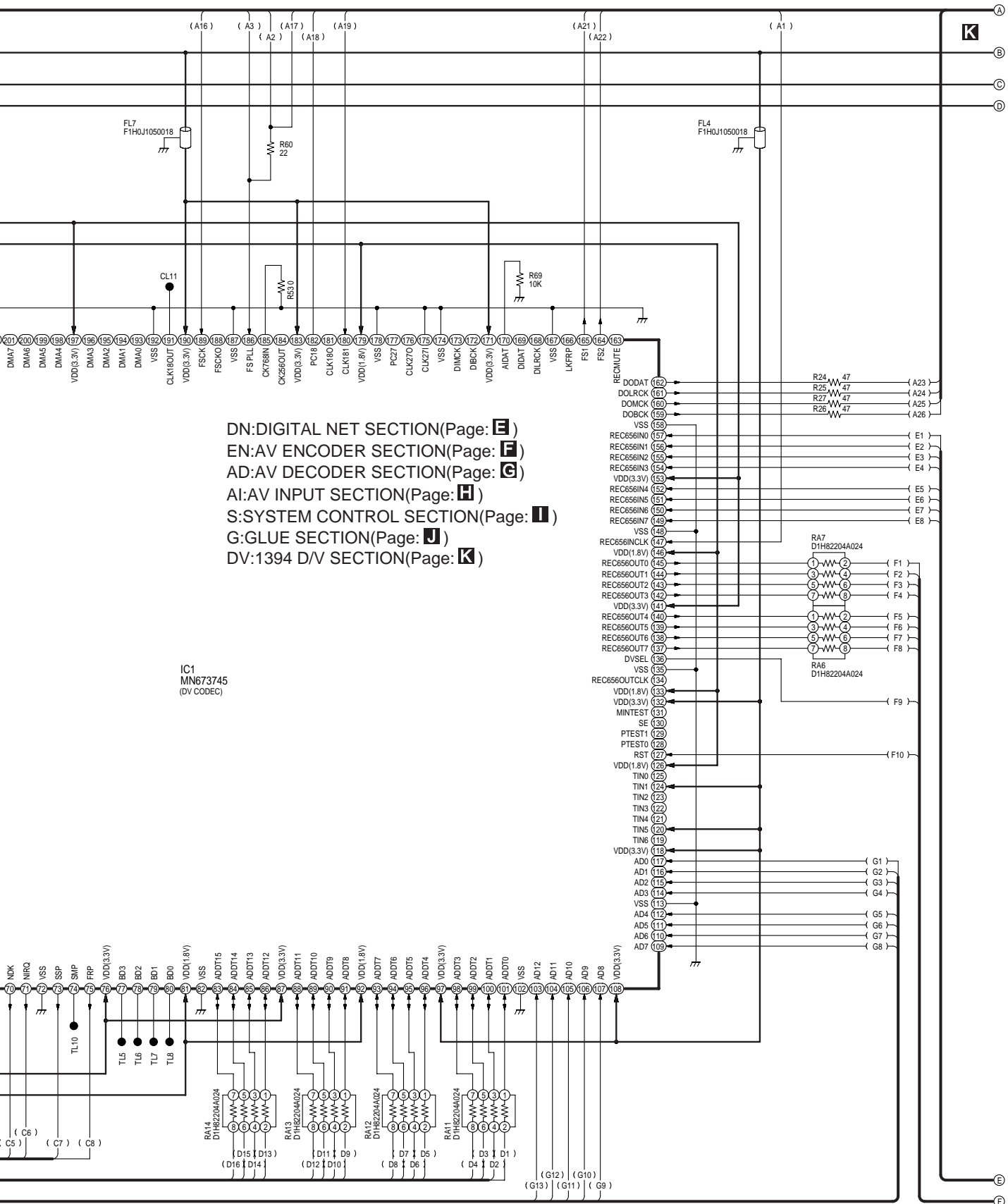
REF NO. 6700 SERIES

DMR-HS2EB/EB1/EG/EG1/GN
 Glue Section (Digital P.C.B. (6/7)) Schematic Diagram (G)



15.14. 1394 D/V Section (Digital P.C.B. (7/7)) Schematic Diagram (DV)

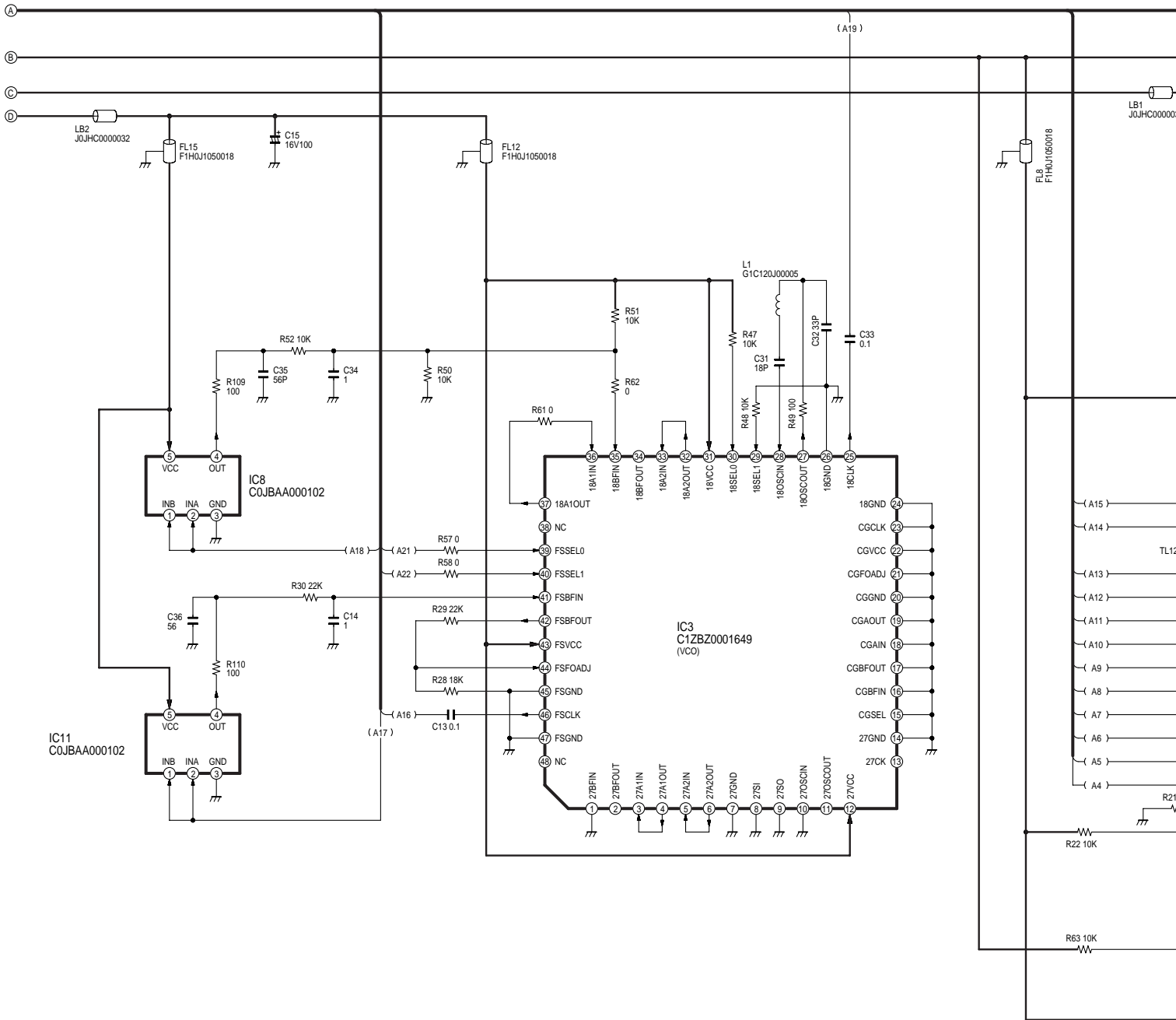




DN: DIGITAL NET SECTION (Page: **E**)
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 AD: AV DECODER SECTION (Page: **G**)
 AI: AV INPUT SECTION (Page: **H**)
 S: SYSTEM CONTROL SECTION (Page: **I**)
 G: GLUE SECTION (Page: **J**)
 DV: 1394 D/V SECTION (Page: **K**)

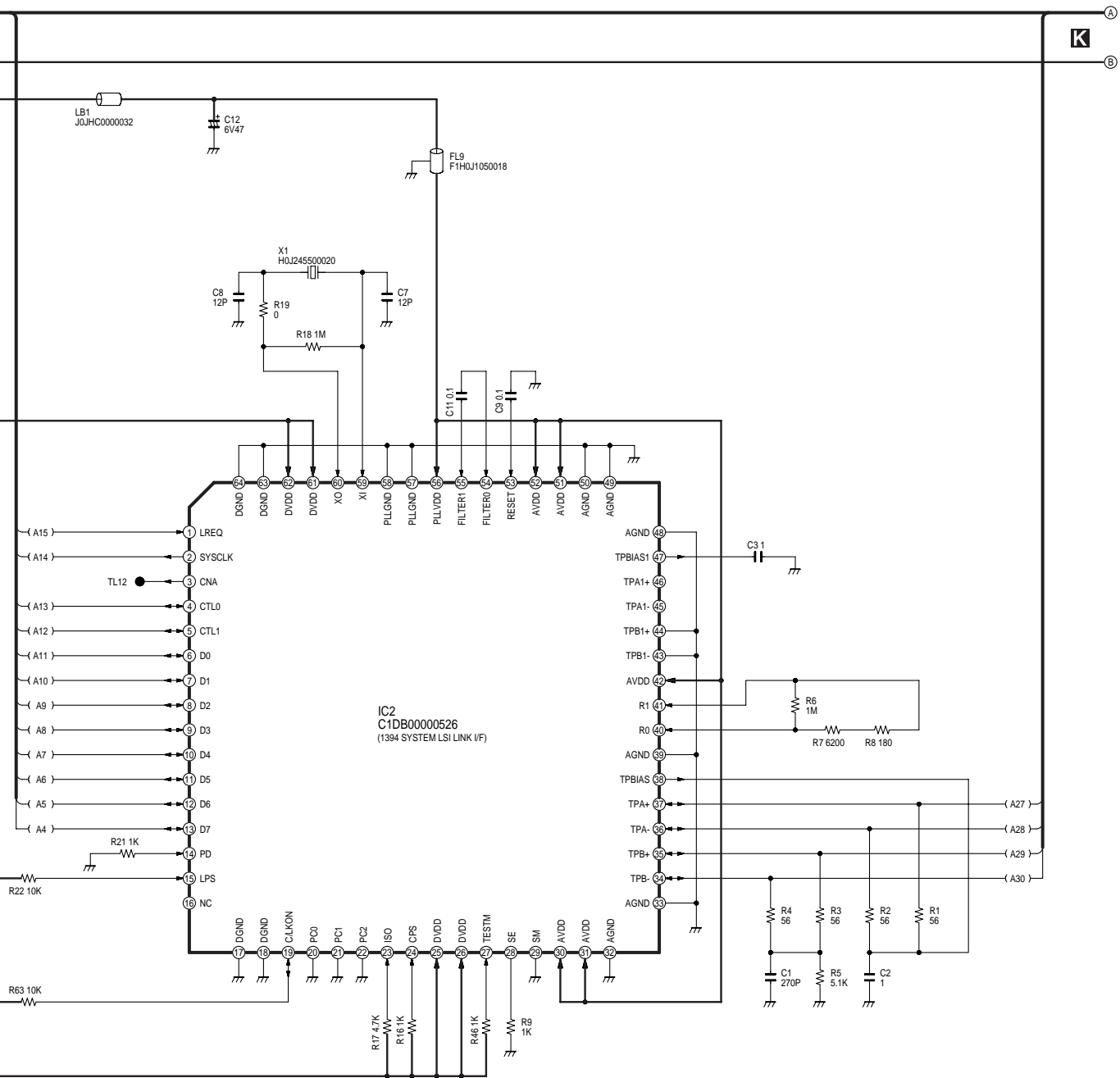
IC1
 MN673745
 (DV CODEC)

DMR-HS2EB/EB1/EG/EG1/GN
 1394 D/V Section (Digital P.C.B.(7/7)) Schematic Diagram (DV)



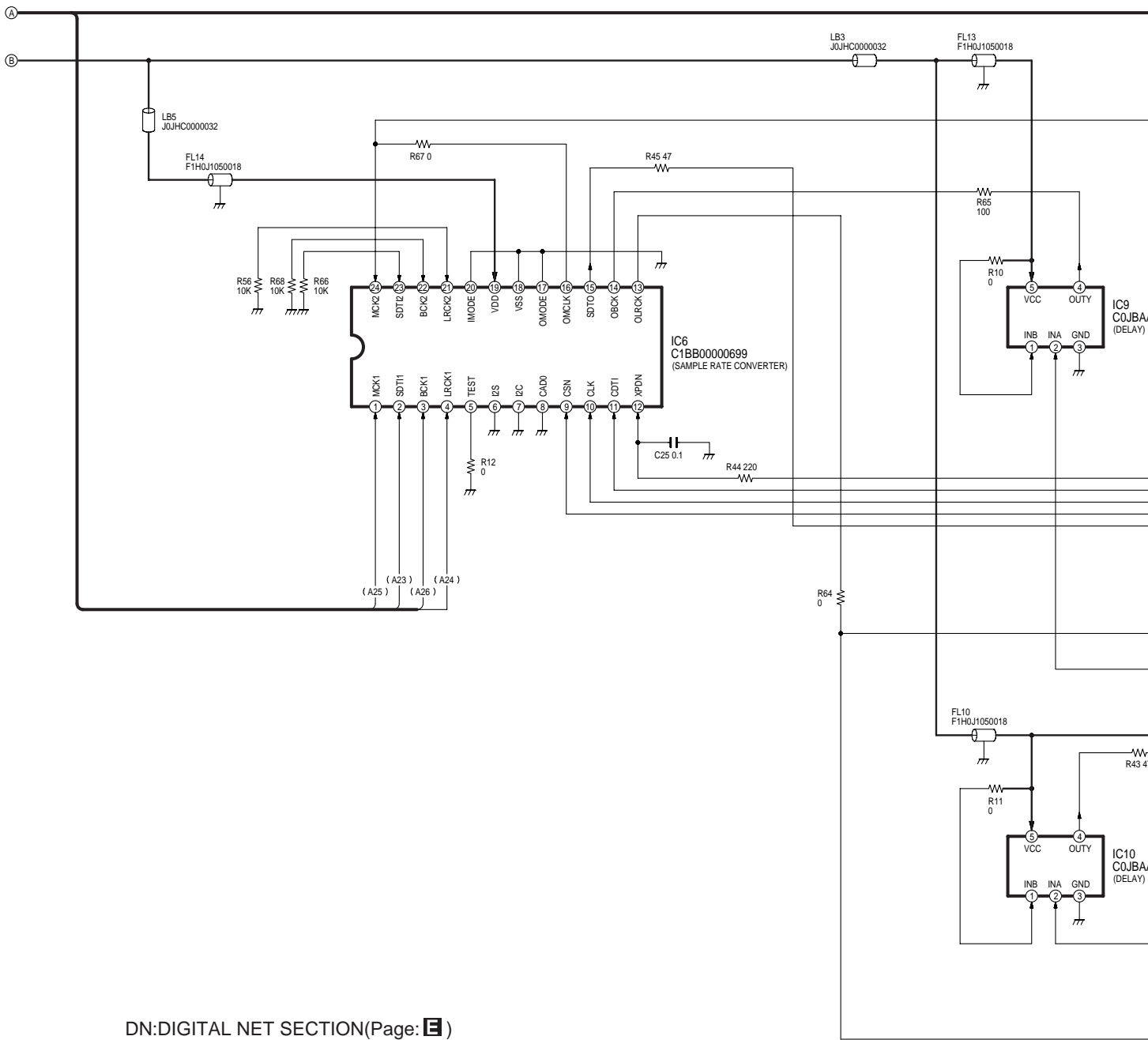
DMR-HS2EB/EB1/EG/EG1/GN
1394 D/V Section(Digital P.C.B.(7/7)) Schematic Diagram(DV)

12 13 14 15 16 17

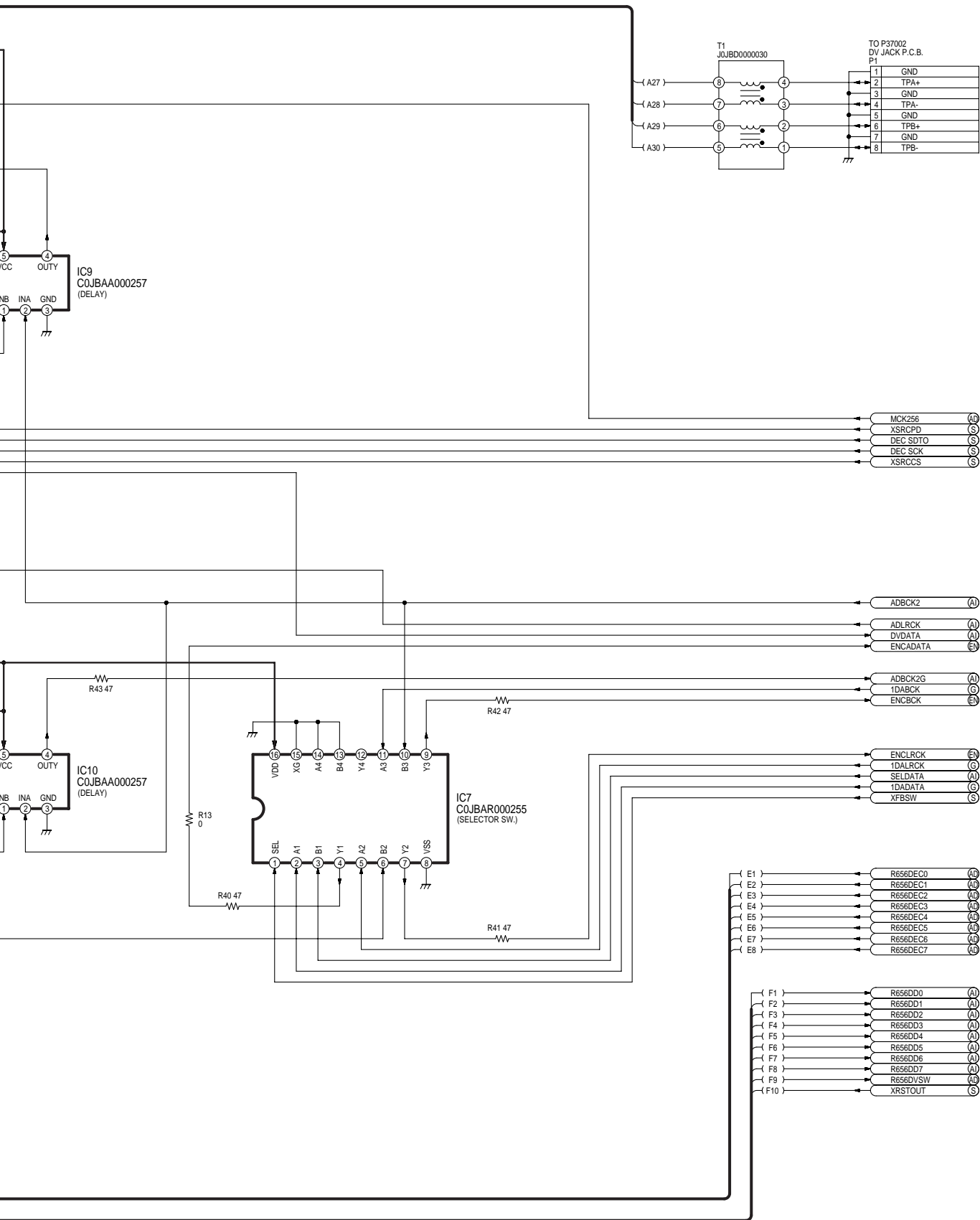


DMR-HS2EB/EB1/EG/EG1/GN
1394 D/V Section(Digital P.C.B.(7/7)) Schematic Diagram(DV)





DN: DIGITAL NET SECTION (Page: **E**)
 EN: AV ENCODER SECTION (Page: **F**)
 AD: AV DECODER SECTION (Page: **G**)
 AI: AV INPUT SECTION (Page: **H**)
 S: SYSTEM CONTROL SECTION (Page: **I**)
 G: GLUE SECTION (Page: **J**)
 DV: 1394 D/V SECTION (Page: **K**)

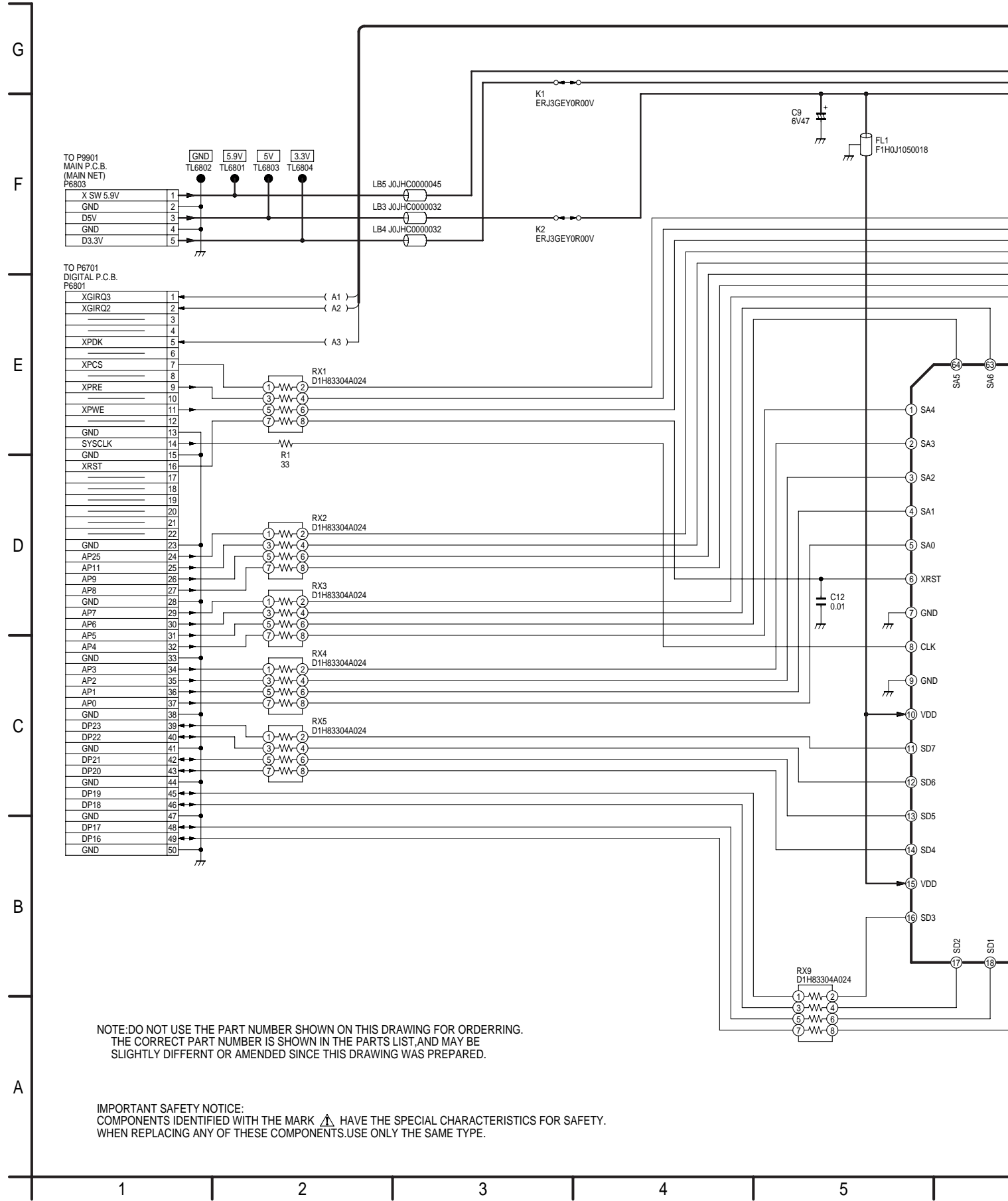


K

Diagram(DV) REF NO.37000 SERIES DMR-HS2EB/EB1/EG/EG1/GN 1394 D/V Section(Digital P.C.B.(7/7)) Schematic Diagram(DV)

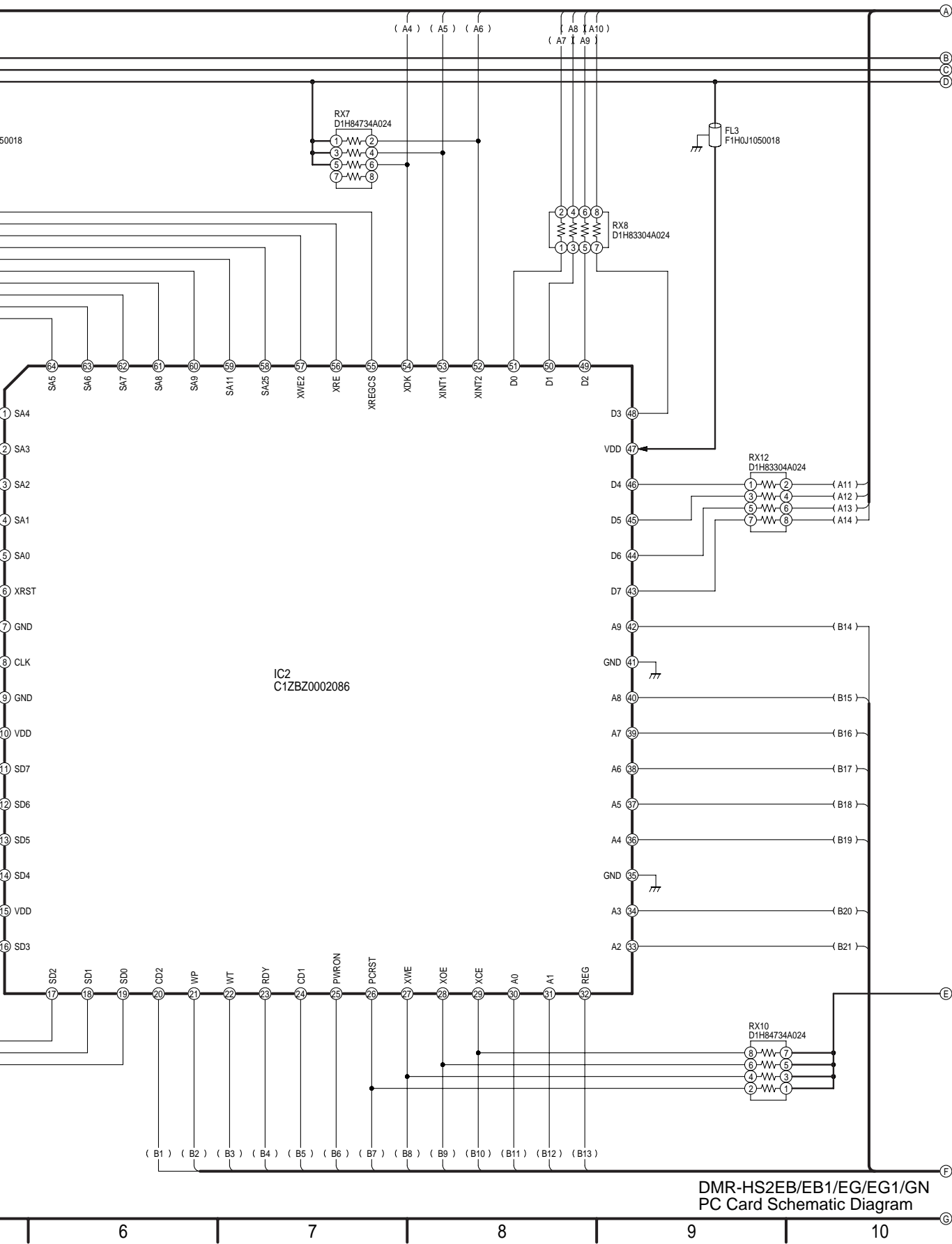
28 29 30 31 32

15.15. PC Card Schematic Diagram



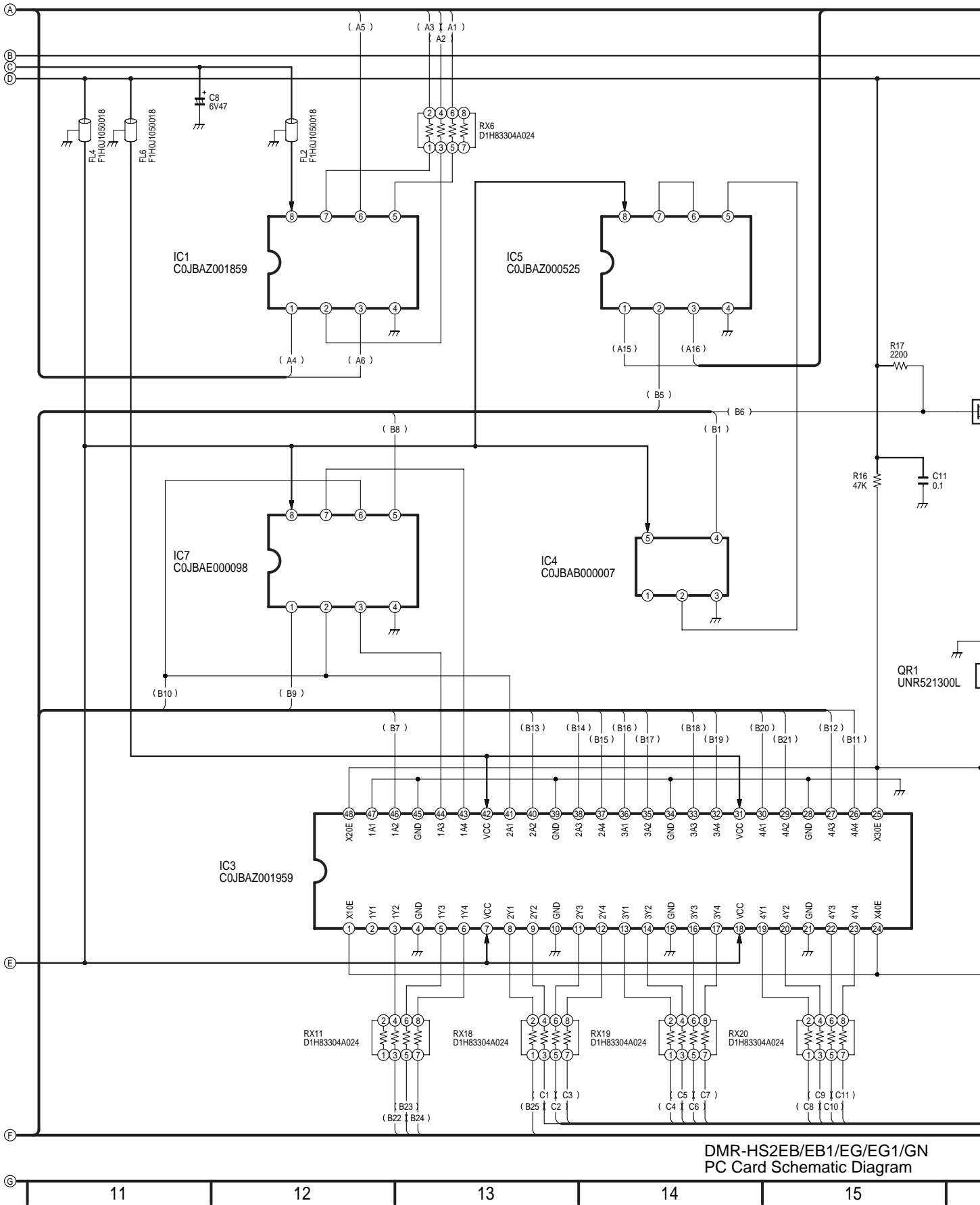
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

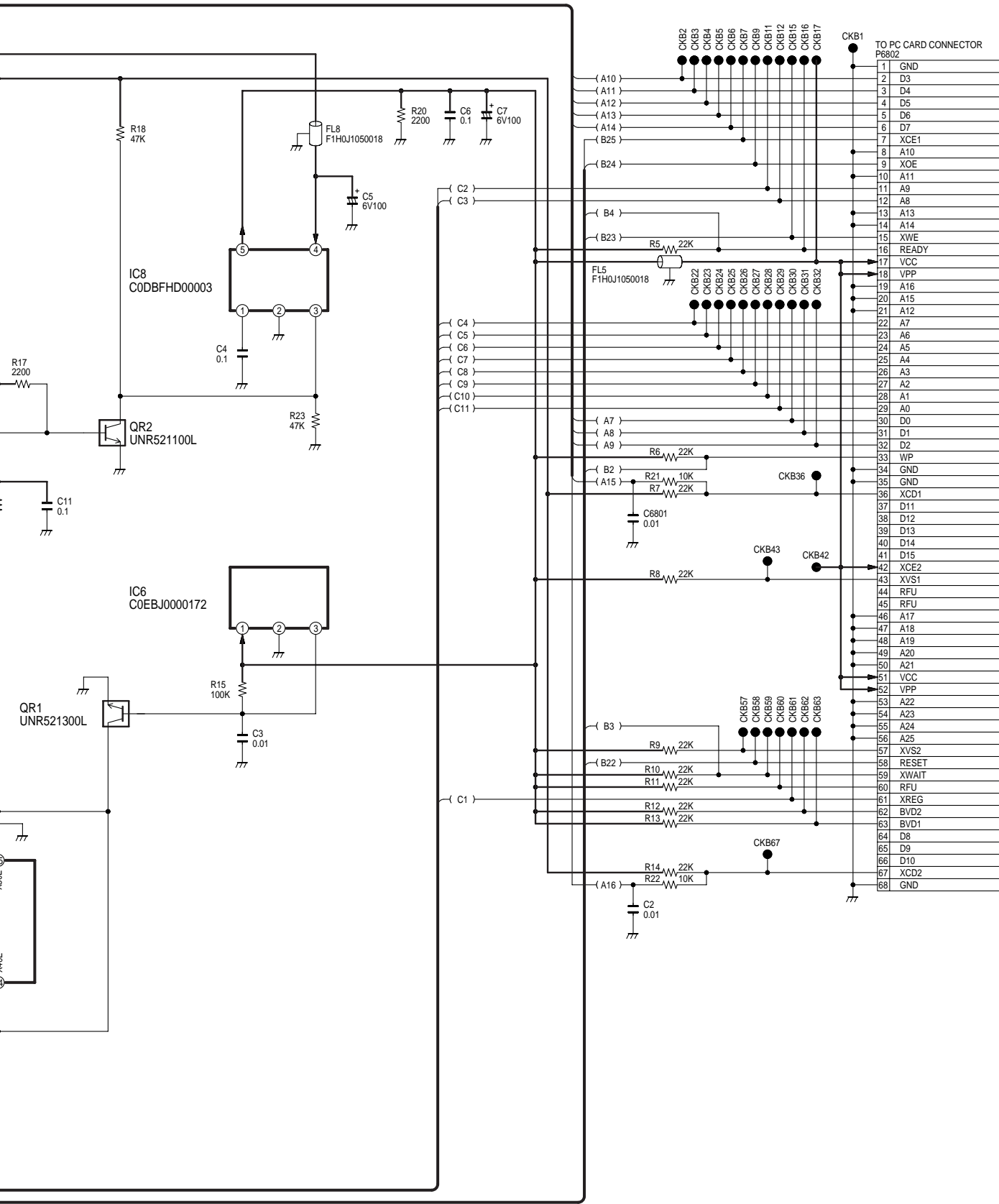


DMR-HS2EB/EB1/EG/EG1/GN
PC Card Schematic Diagram

6 7 8 9 10

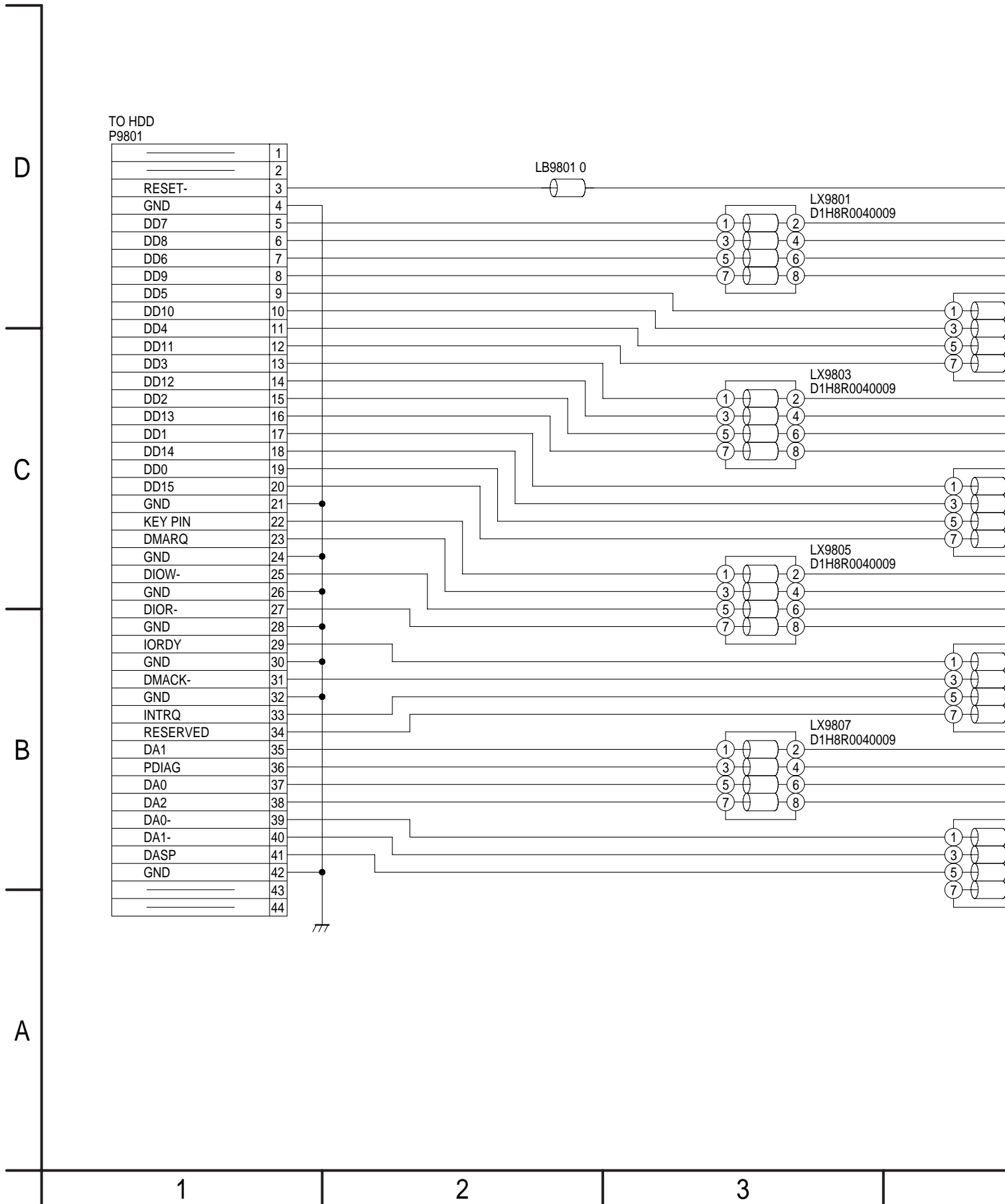


DMR-HS2EB/EB1/EG/EG1/GN
PC Card Schematic Diagram



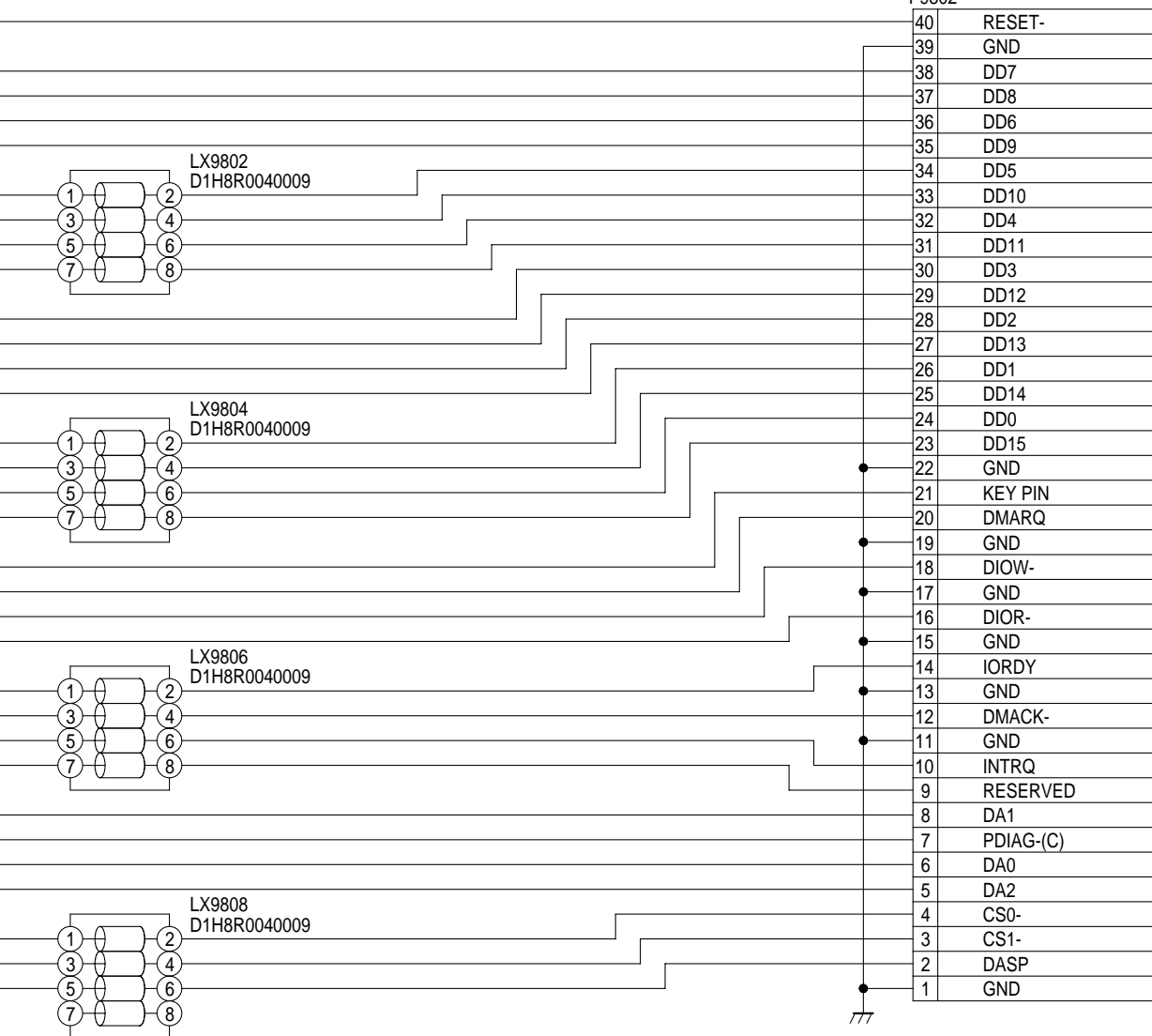
TO PC CARD CONNECTOR P6802	
1	GND
2	D3
3	D4
4	D5
5	D6
6	D7
7	XCE1
8	A10
9	XOE
10	A11
11	A9
12	A8
13	A13
14	A14
15	XWE
16	READY
17	VCC
18	VPP
19	A16
20	A15
21	A12
22	A7
23	A6
24	A5
25	A4
26	A3
27	A2
28	A1
29	A0
30	D0
31	D1
32	D2
33	WP
34	GND
35	GND
36	XCD1
37	D11
38	D12
39	D13
40	D14
41	D15
42	XCE2
43	XVS1
44	RFU
45	RFU
46	A17
47	A18
48	A19
49	A20
50	A21
51	VCC
52	VPP
53	A22
54	A23
55	A24
56	A25
57	XVS2
58	RESET
59	XWAIT
60	RFU
61	XREG
62	BVD2
63	BVD1
64	D8
65	D9
66	D10
67	XCD2
68	GND

15.16. ATAPI Schematic Diagram





TO P3402
DIGITAL P.C.B.
(AV ENCODER SECTION)
P9802



DMR-HS2EB/EB1/EG/EG1/GN
ATAPI Schematic Diagram

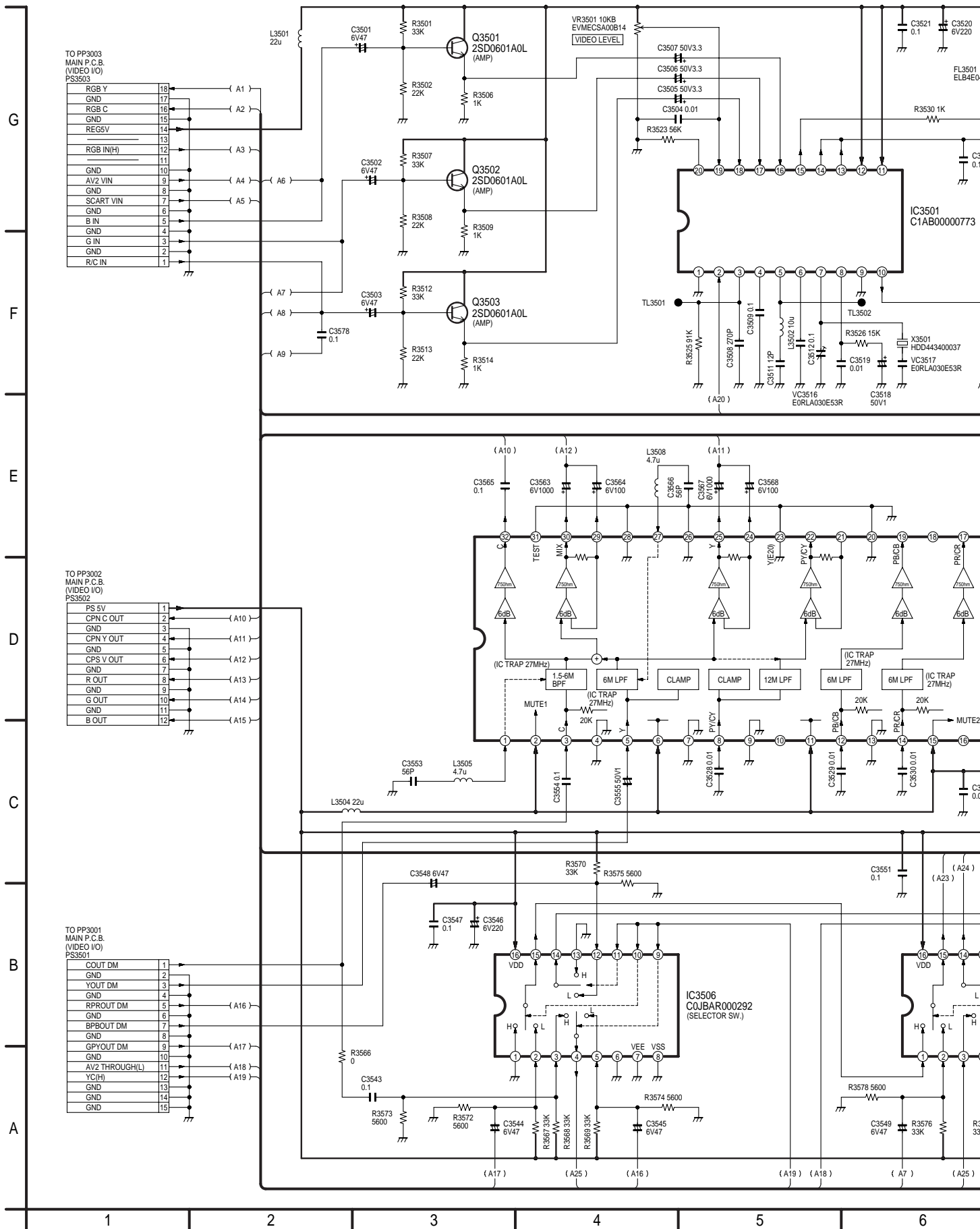
4

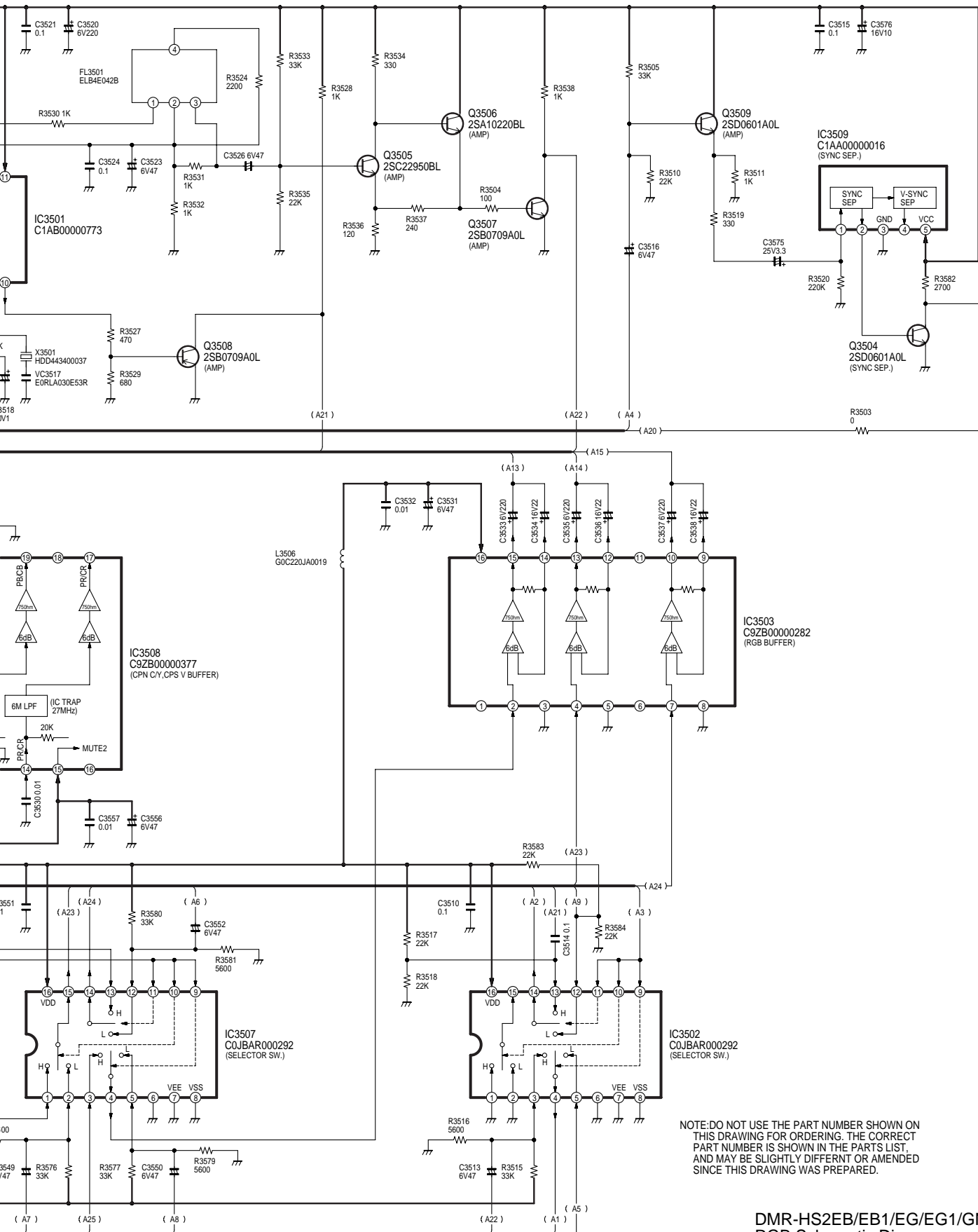
5

6



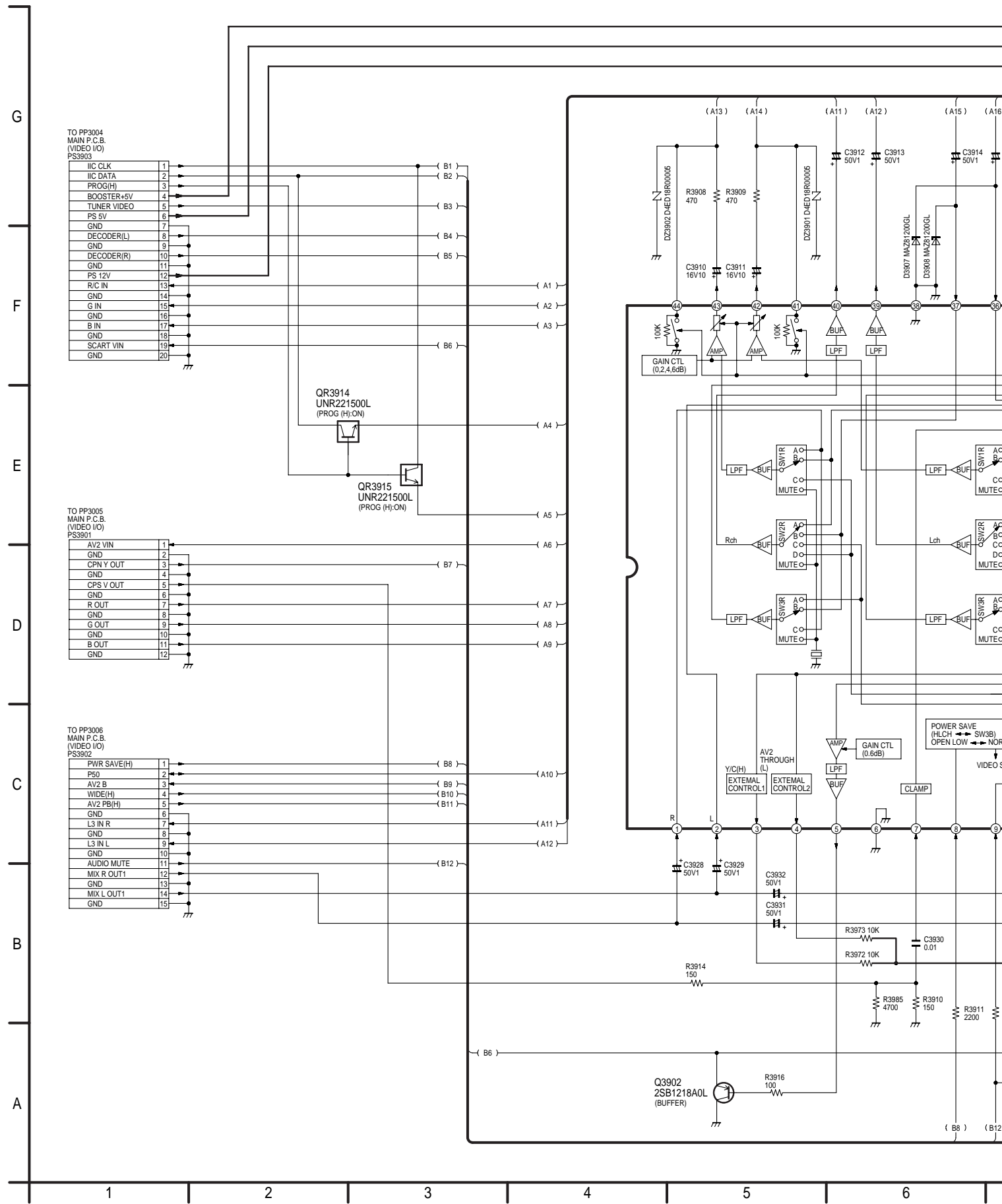
15.17. RGB Schematic Diagram

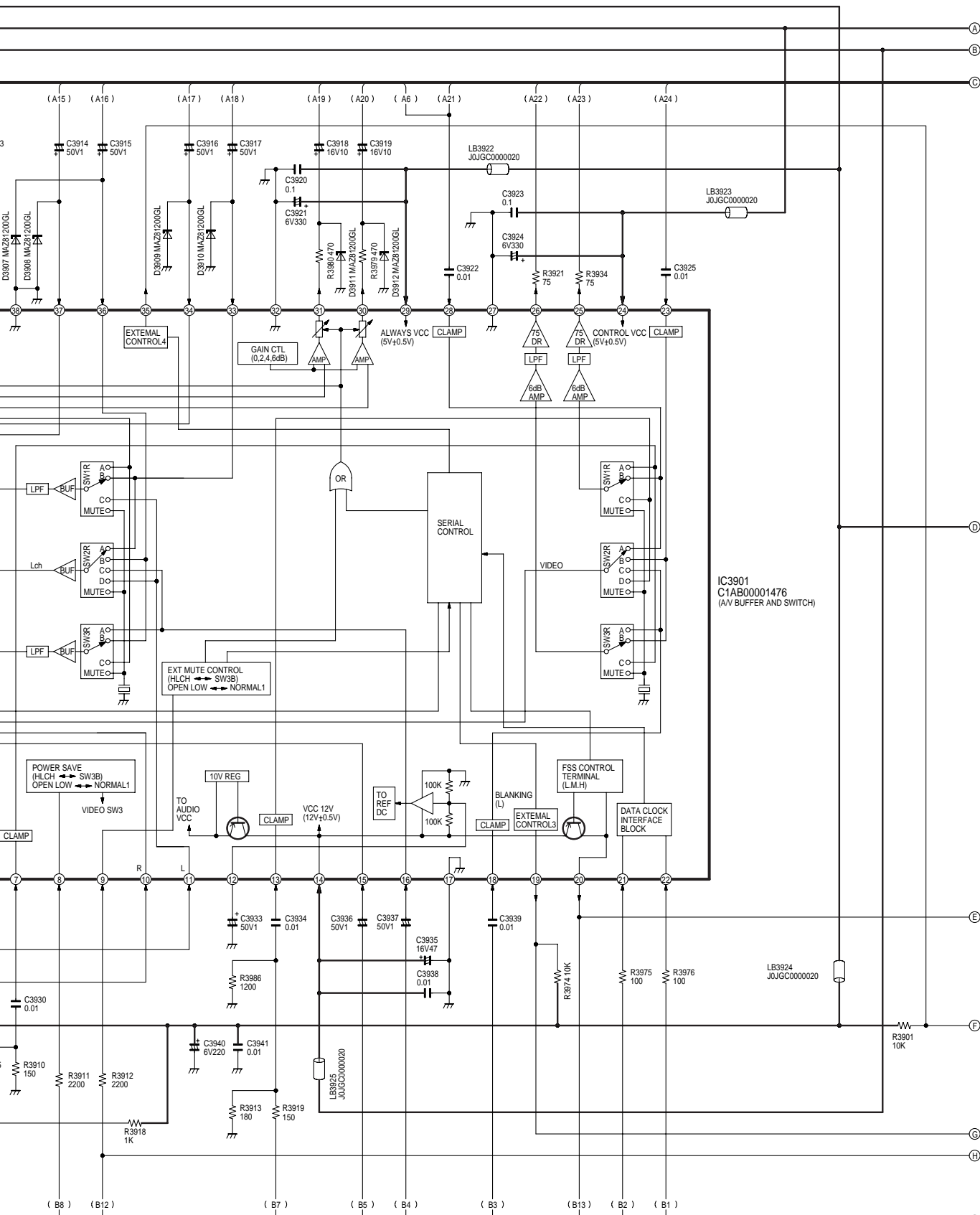




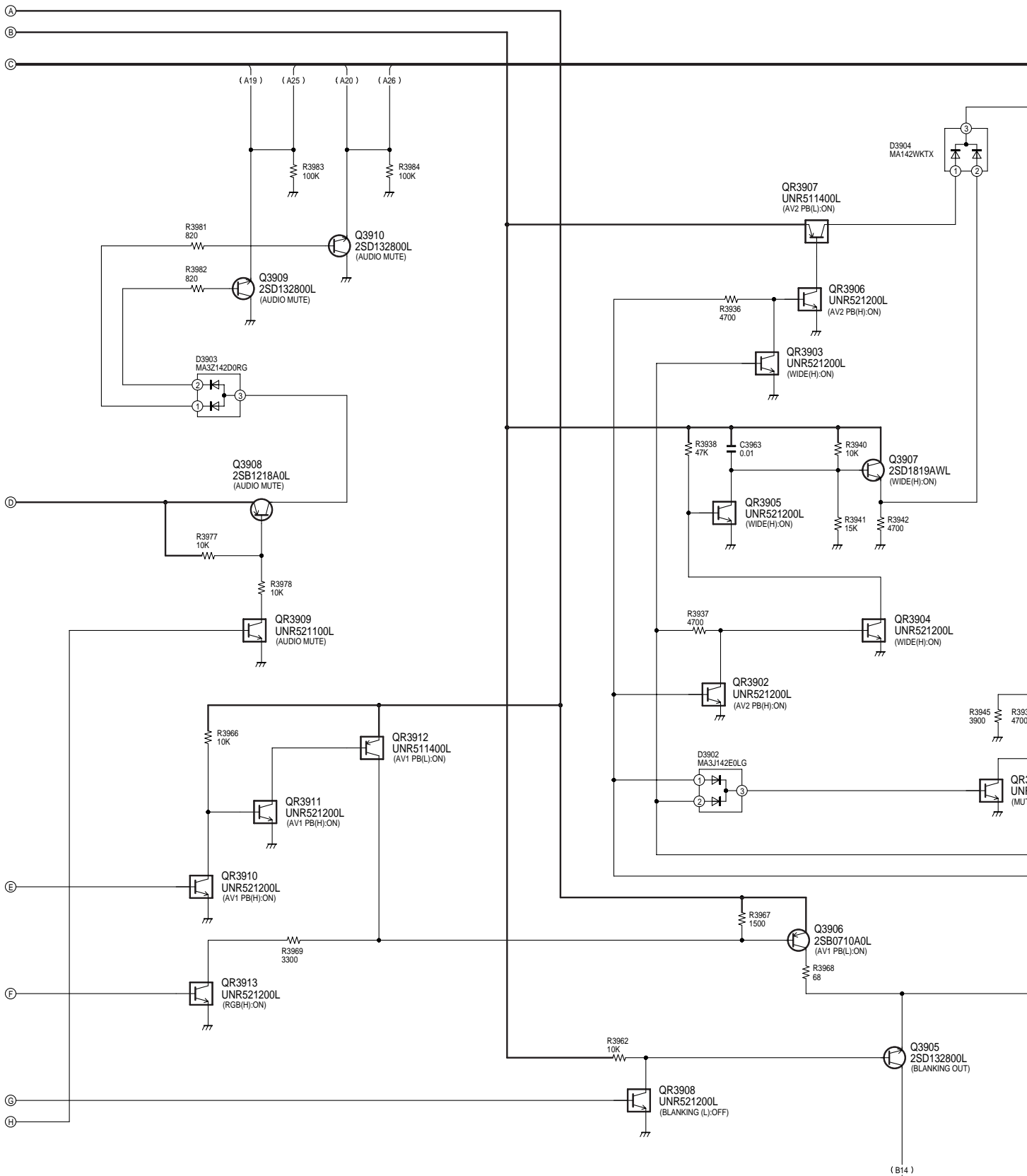
DMR-HS2EB/EB1/EG/EG1/GN
RGB Schematic Diagram

15.18. Scart Schematic Diagram





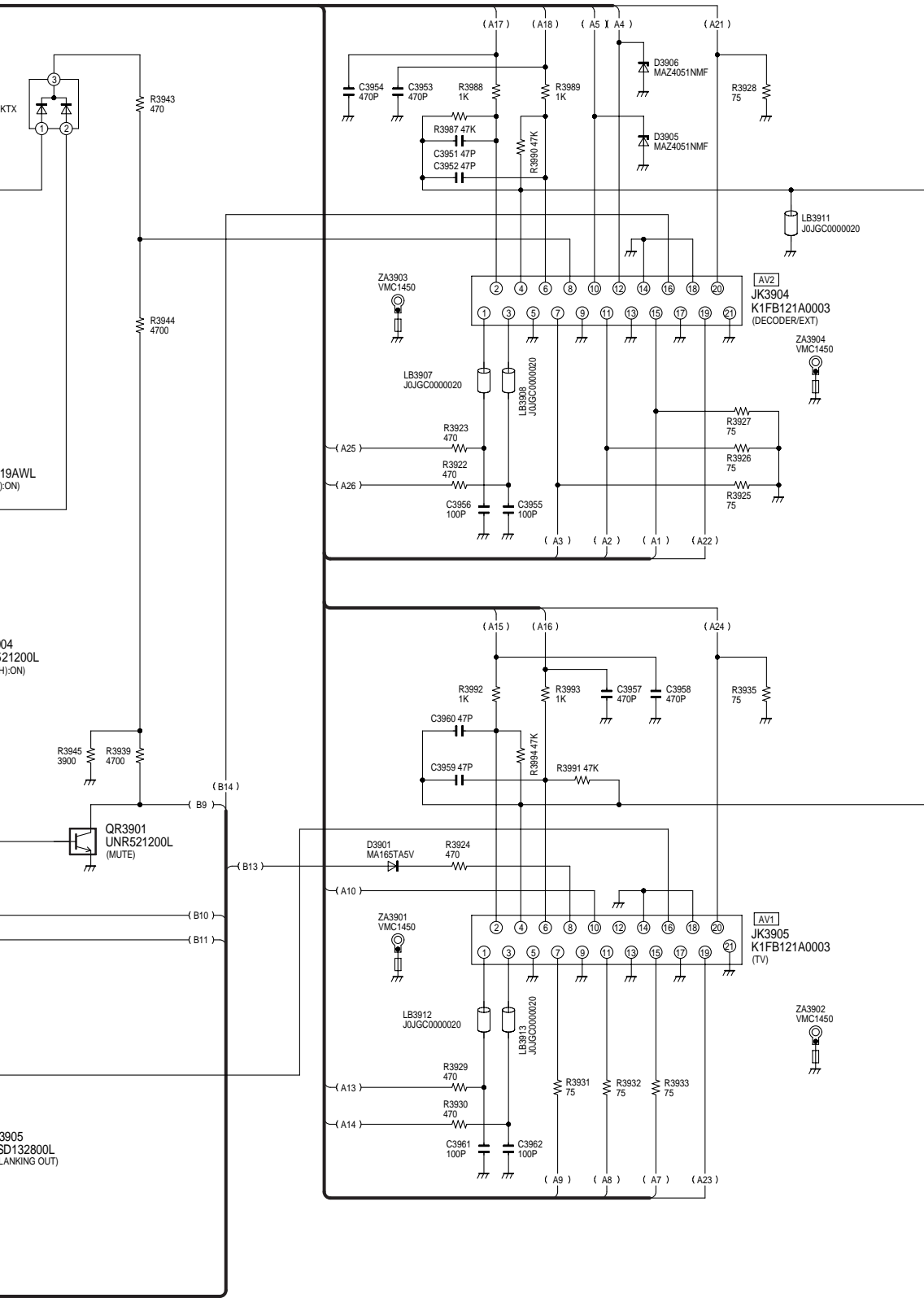
DMR-HS2EB/EB1/EG/EG1/GN
Scart Schematic Diagram



NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-HS2EB/EB1/EG/EG1/GN
Scart Schematic Diagram

12 | 13 | 14 | 15 | 16 | 17



AV2

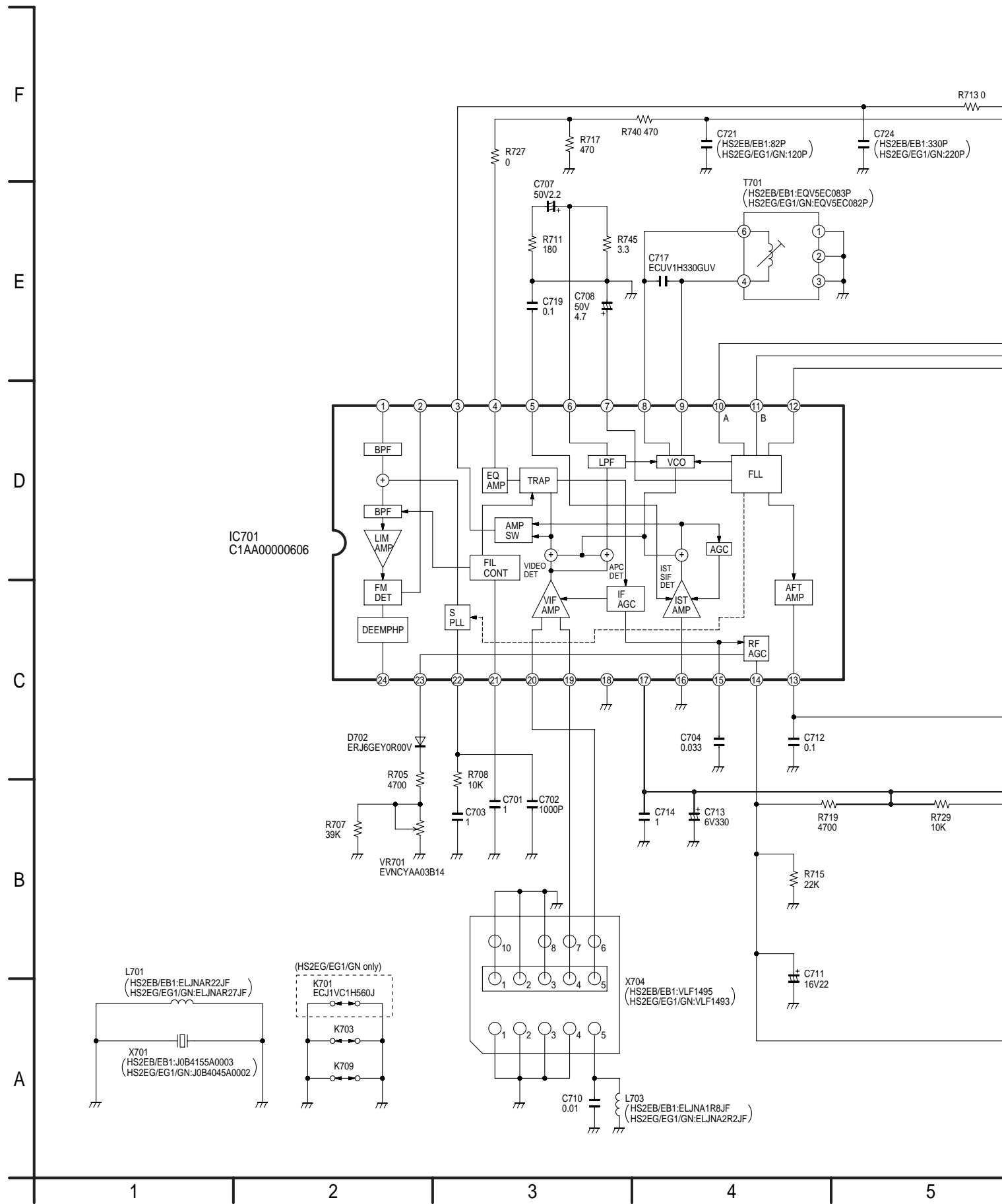
1	AUDIO OUT CH2(R)
2	AUDIO IN CH2(R)
3	AUDIO OUT CH1(L)
4	GND(A)
5	GND
6	AUDIO IN CH1(L)
7	BLUE
8	AV2 +12V
9	GND
10	-CONTROL
11	GREEN
12	-DATA
13	GND
14	GND
15	RED/C IN
16	BLANKING
17	GND
18	GND
19	VIDEO OUT
20	VIDEO IN/Y IN
21	GND

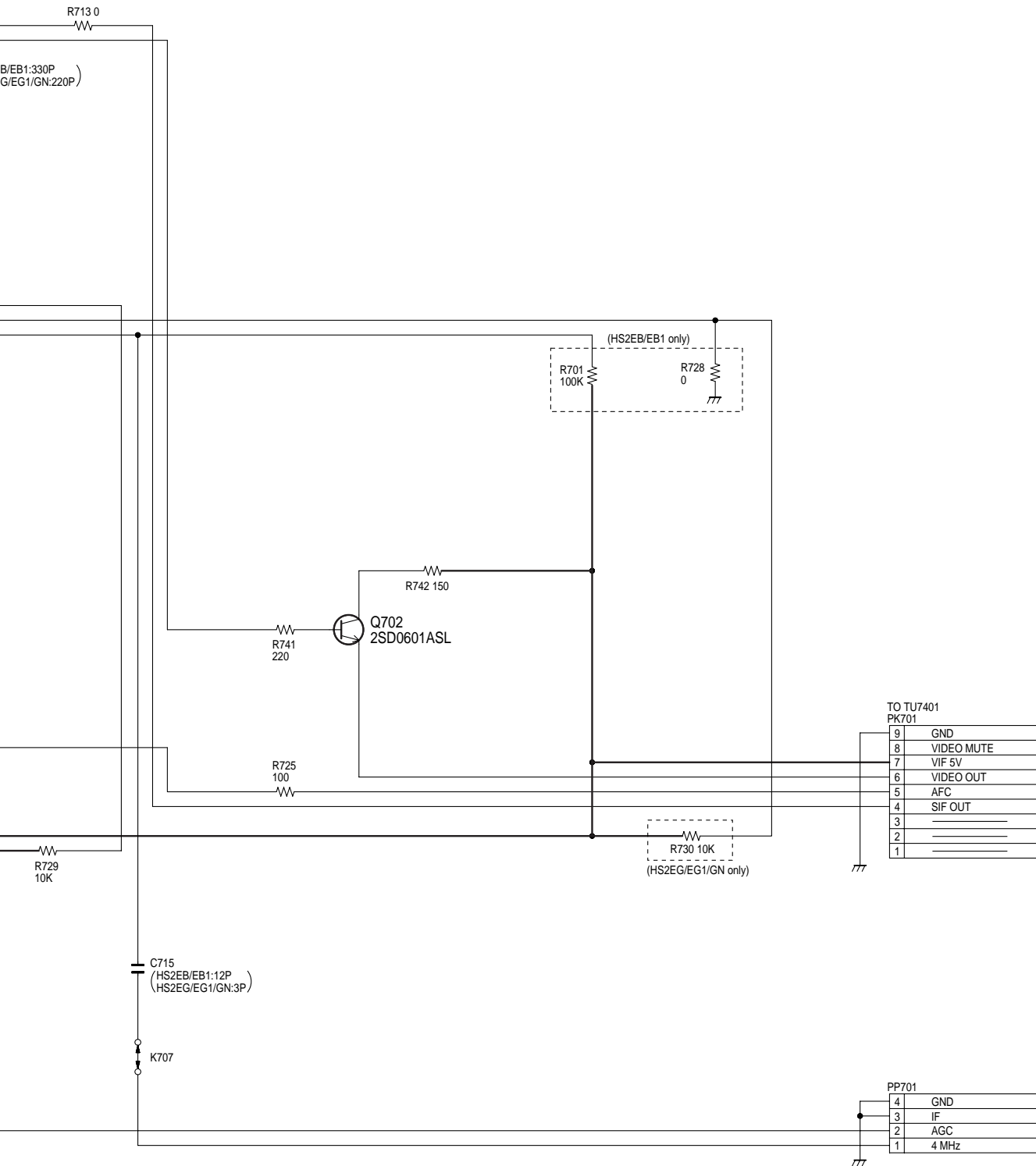
AV1

1	AUDIO OUT CH2(R)
2	AUDIO IN CH2(R)
3	AUDIO OUT CH1(L)
4	GND(A)
5	GND
6	AUDIO IN CH1(L)
7	BLUE
8	PB +12V
9	GND
10	-CONTROL
11	GREEN
12	-DATA
13	GND
14	GND
15	RED/C OUT
16	BLANKING
17	GND
18	GND
19	VIDEO OUT/Y OUT
20	VIDEO IN
21	GND

DMR-HS2EB/EB1/EG/EG1/GN
Scart Schematic Diagram

15.19. VIF Decoder Schematic Diagram





NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-HS2EB/EB1/EG/EG1/GN
VIF Decoder Schematic Diagram

5

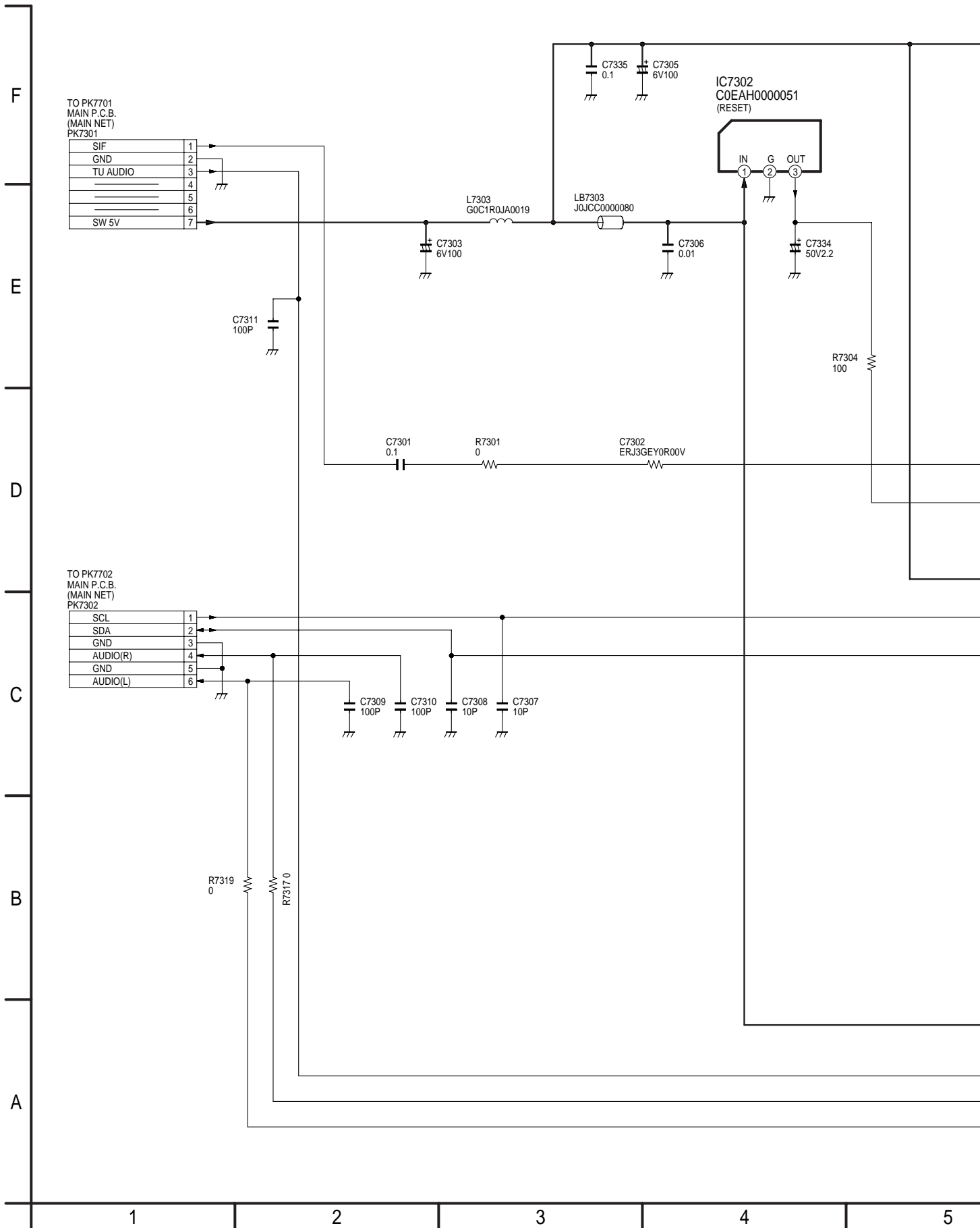
6

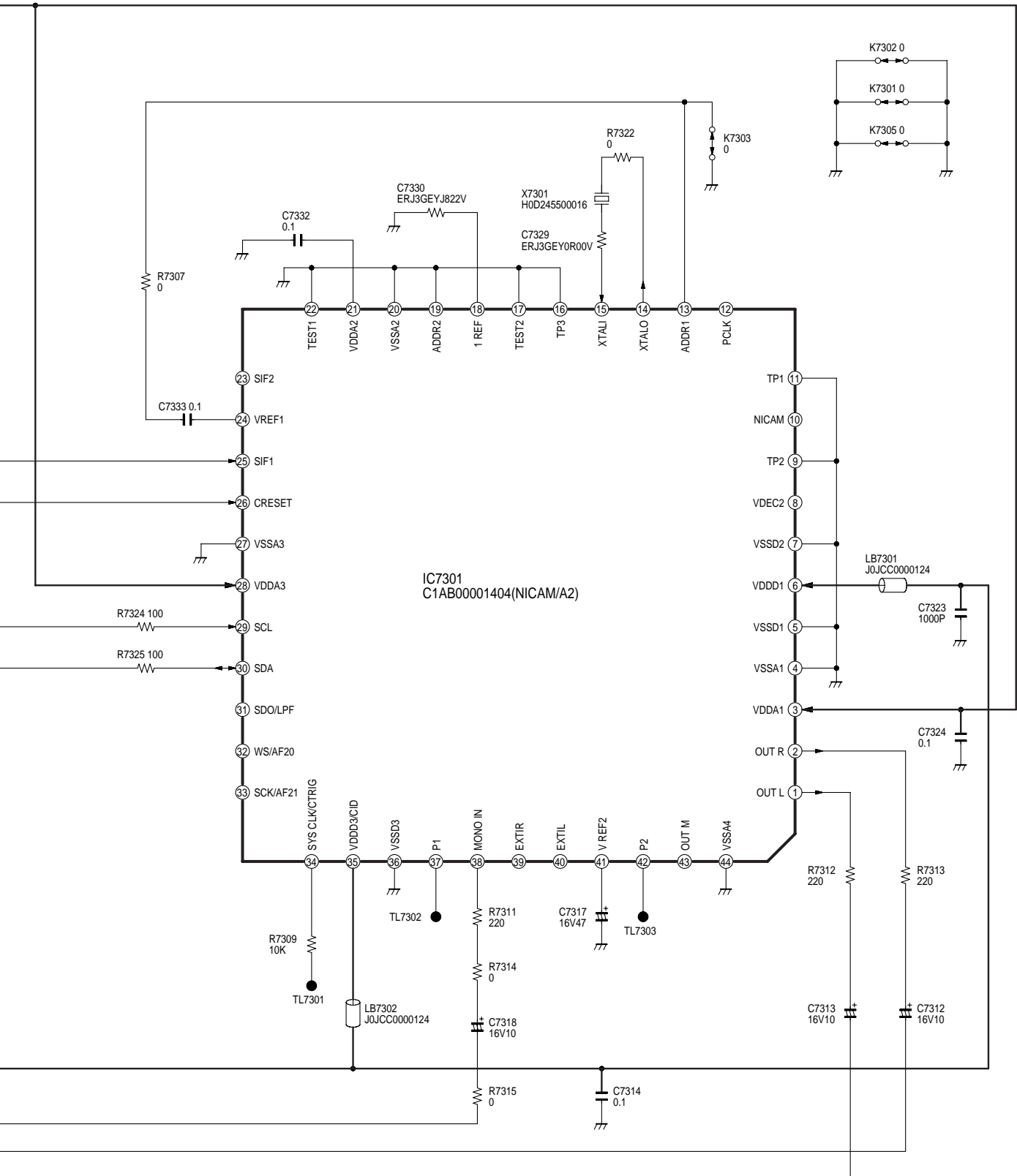
7

8



15.20. Nicam/Decoder Schematic Diagram

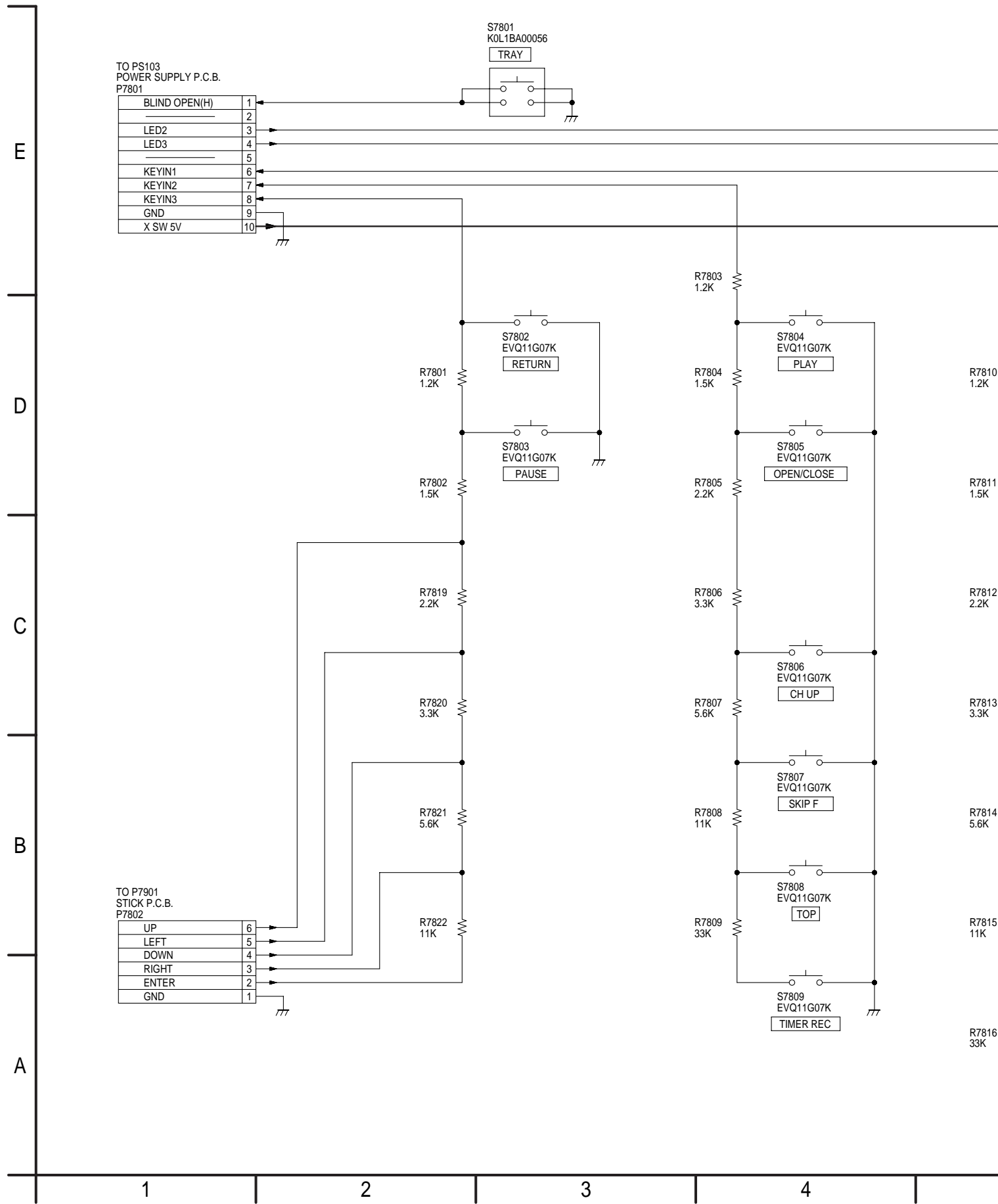


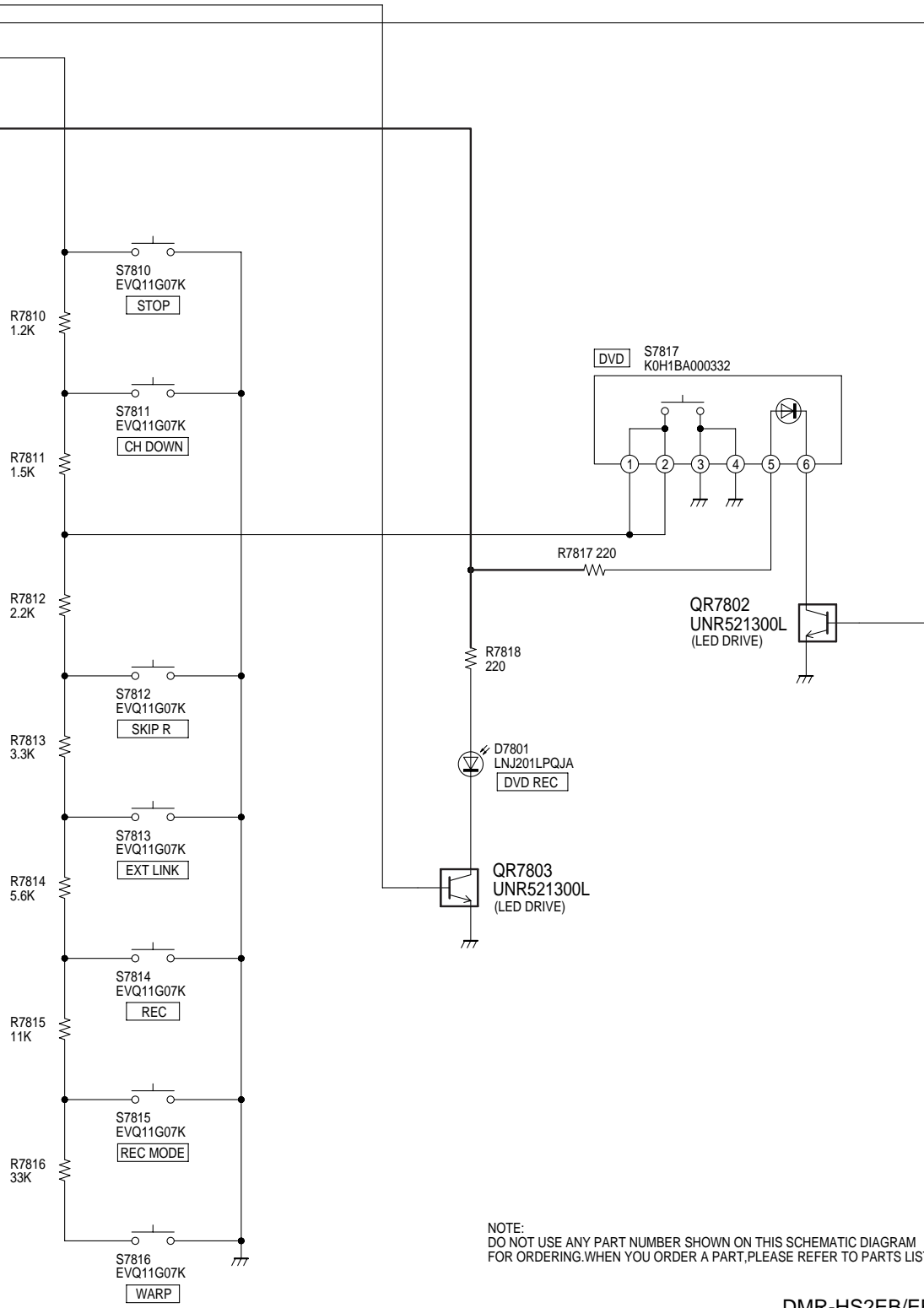


NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

DMR-HS2EB/EB1/EG/EG1/GN
Nicom/Decoder Schematic Diagram

15.21. Front (R) Schematic Diagram





NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

DMR-HS2EB/EB1/EG/EG1/GN
Front (R) Schematic Diagram

5

6

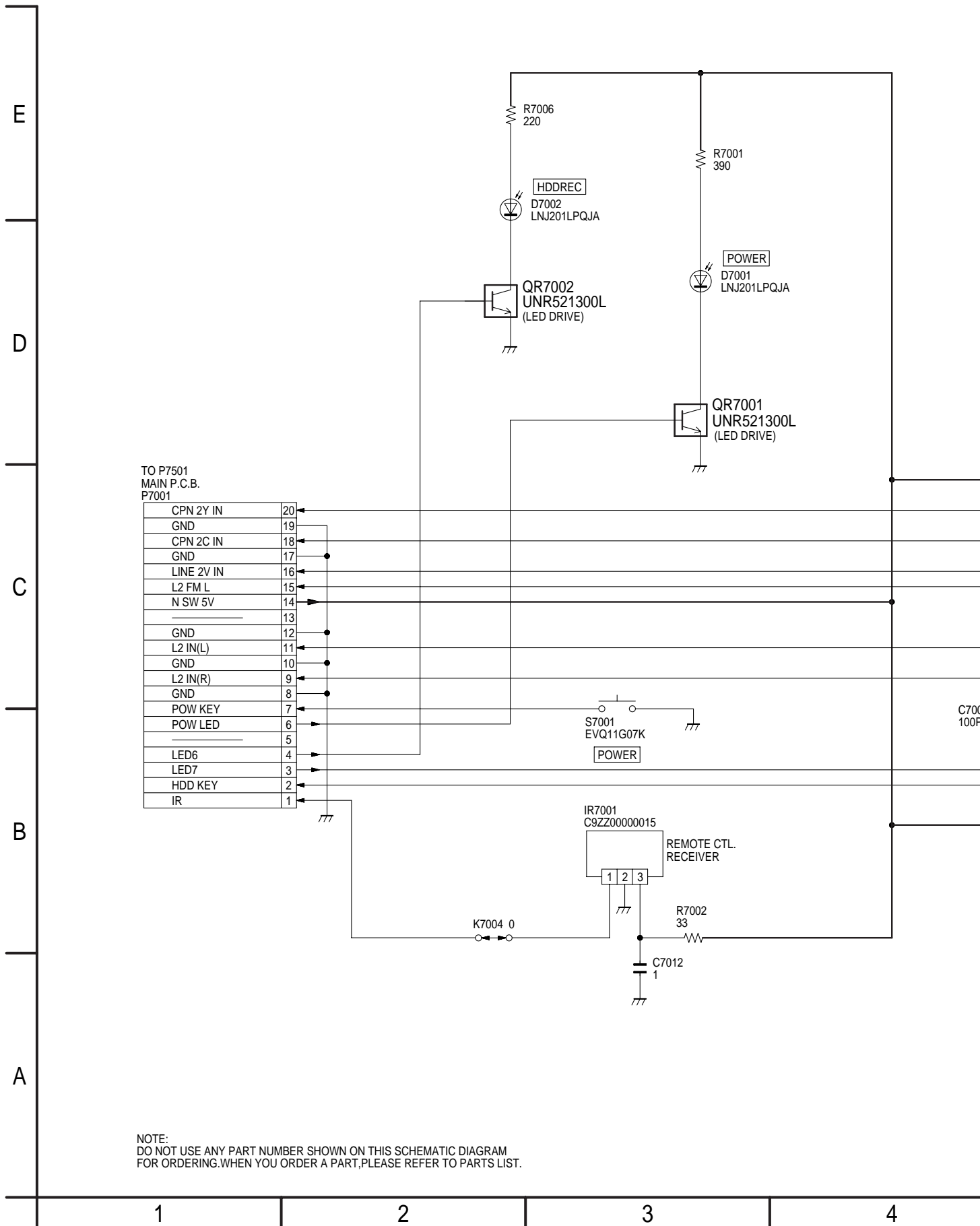
7

8

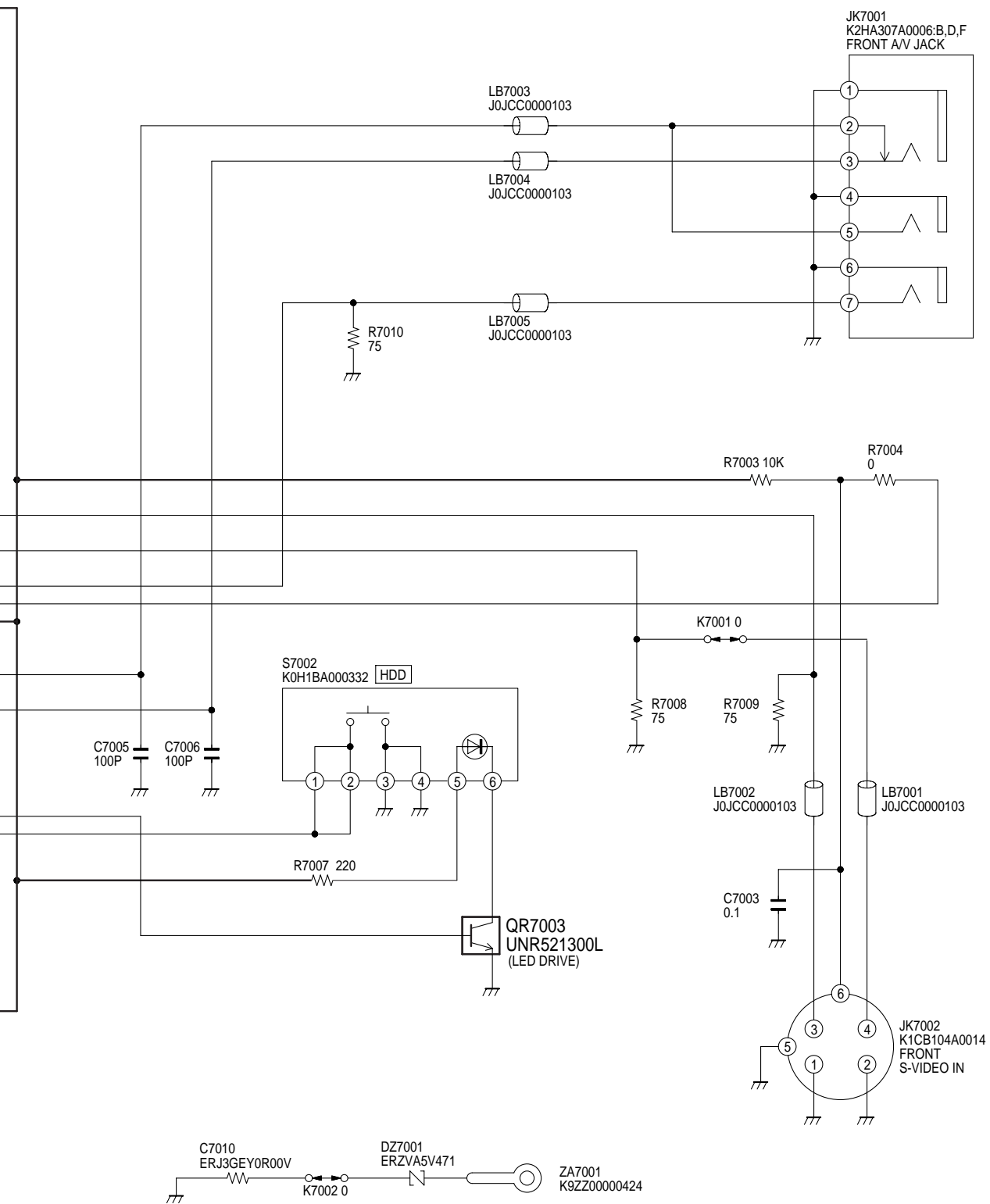




15.22. Front (L) Schematic Diagram



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

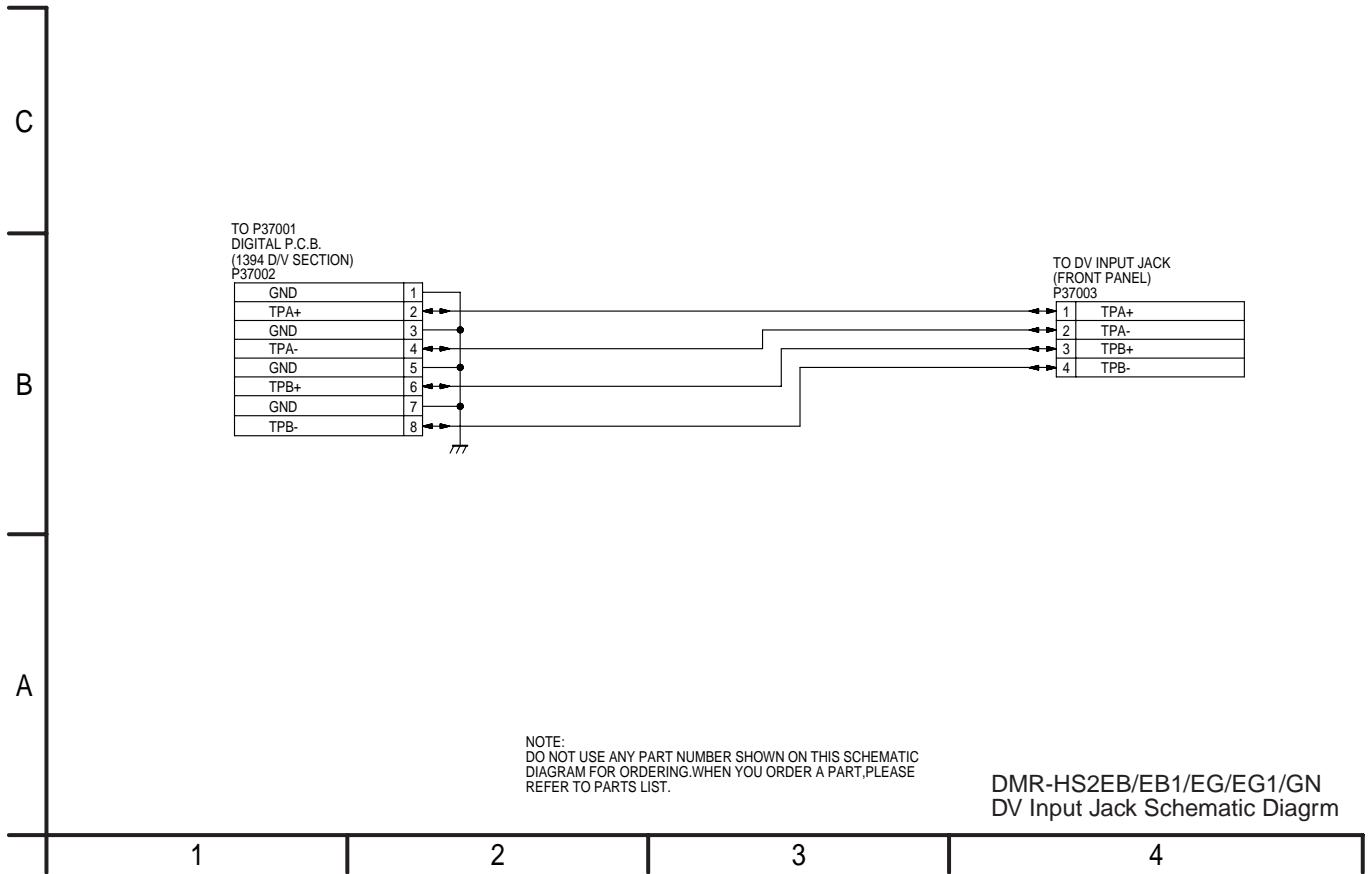


DMR-HS2EB/EB1/EG/EG1/GN
Front (L) Schematic Diagram

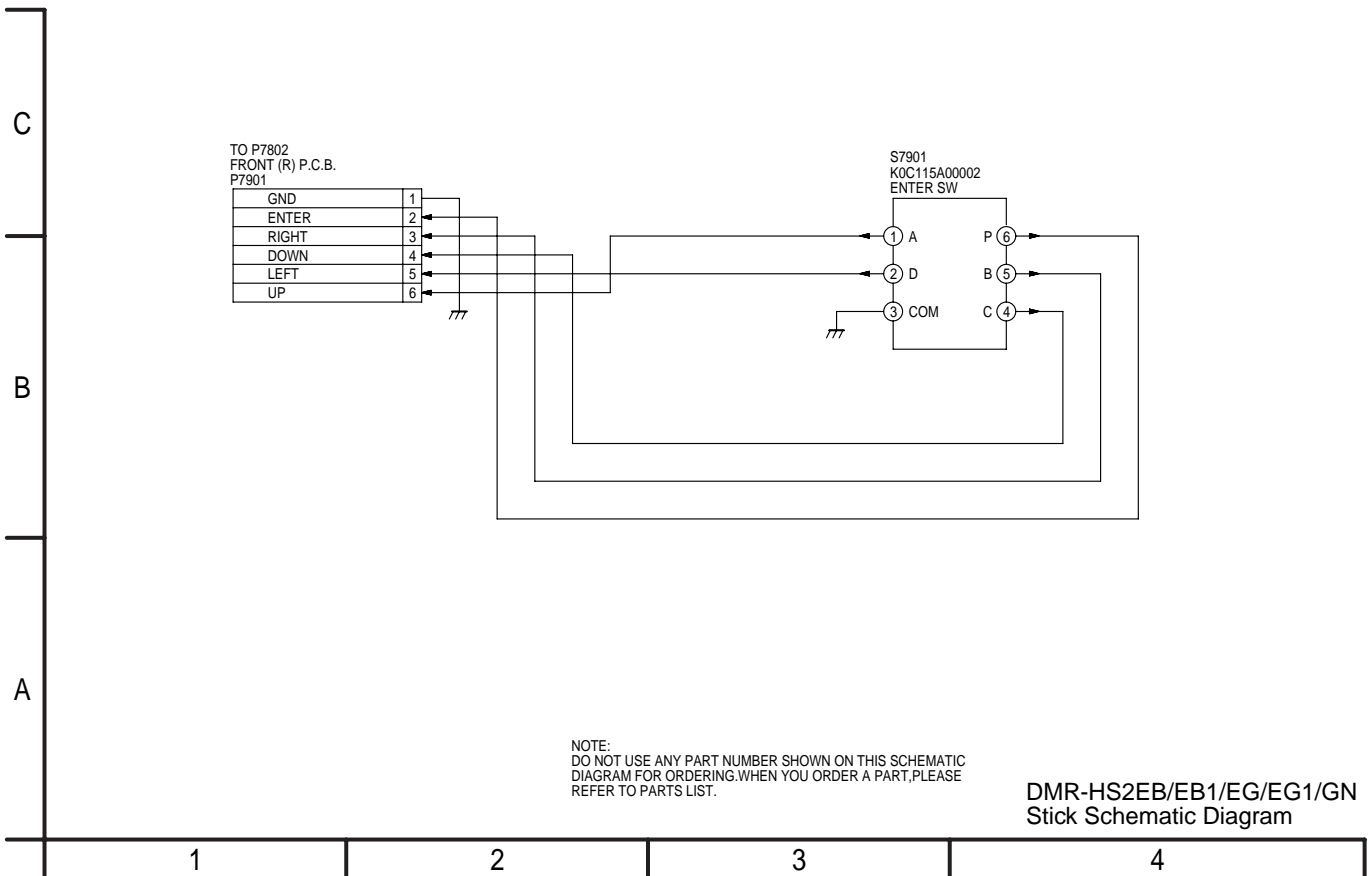




15.23. DV Input Jack Schematic Diagram



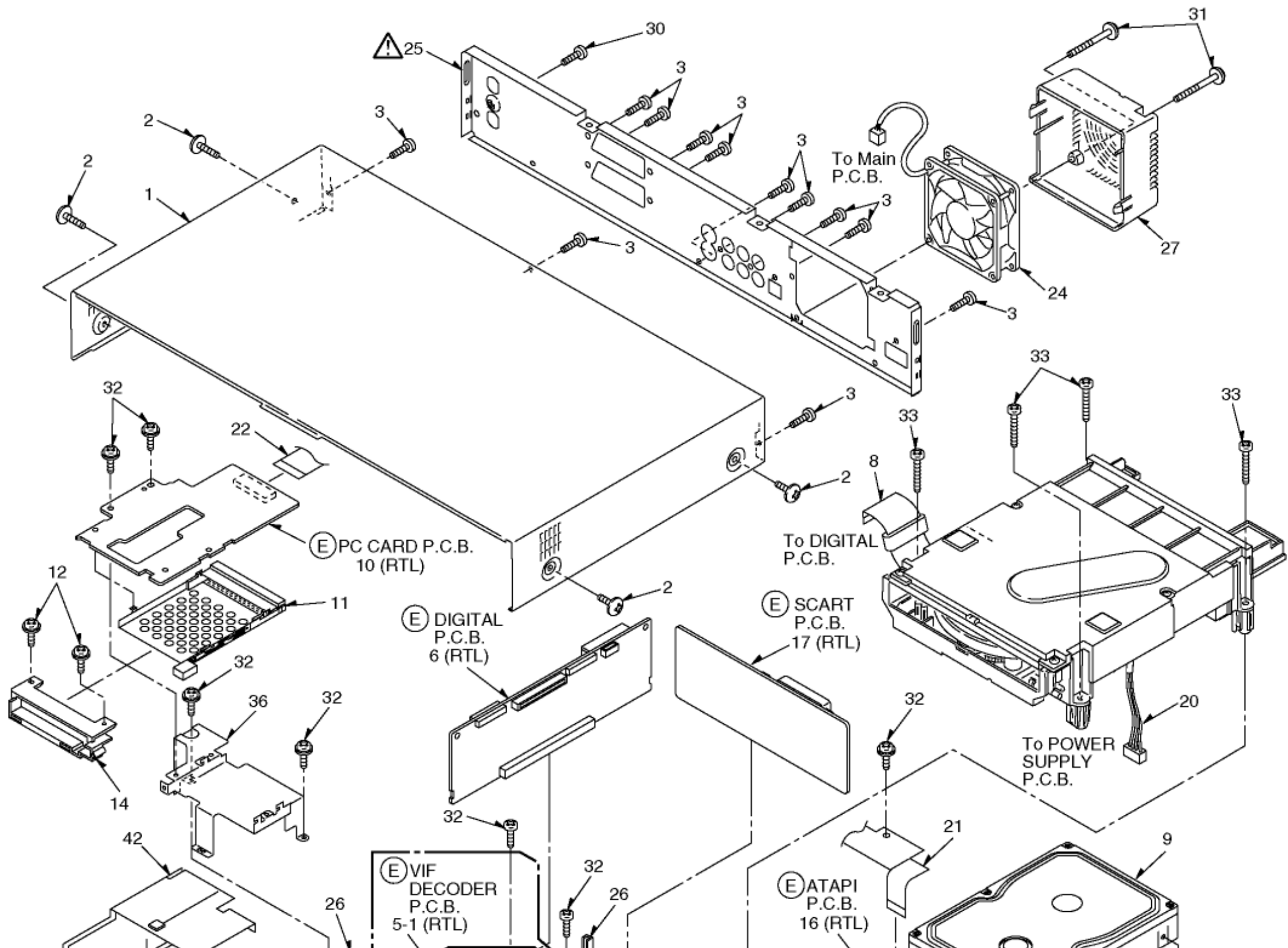
15.24. Stick Schematic Diagram

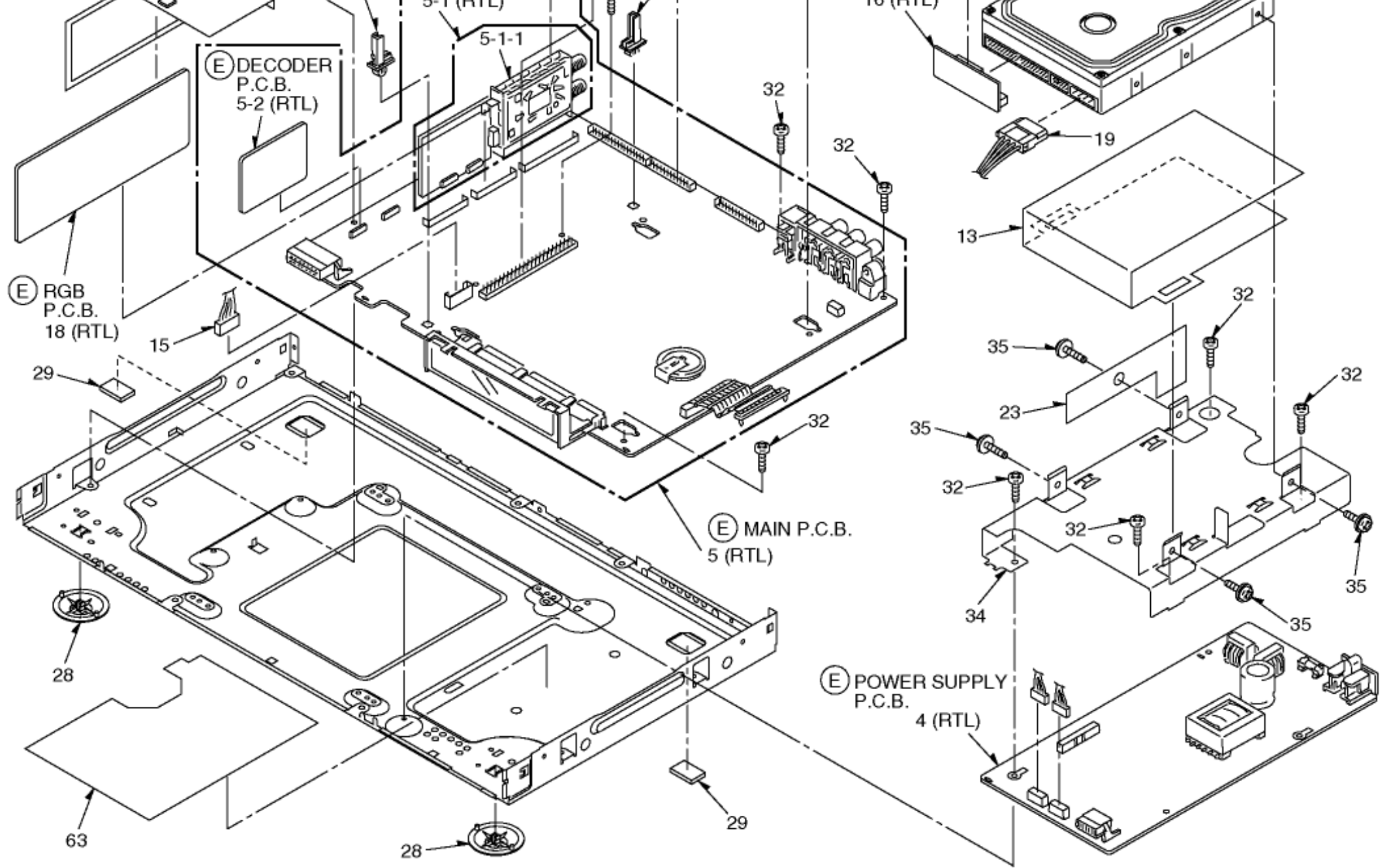


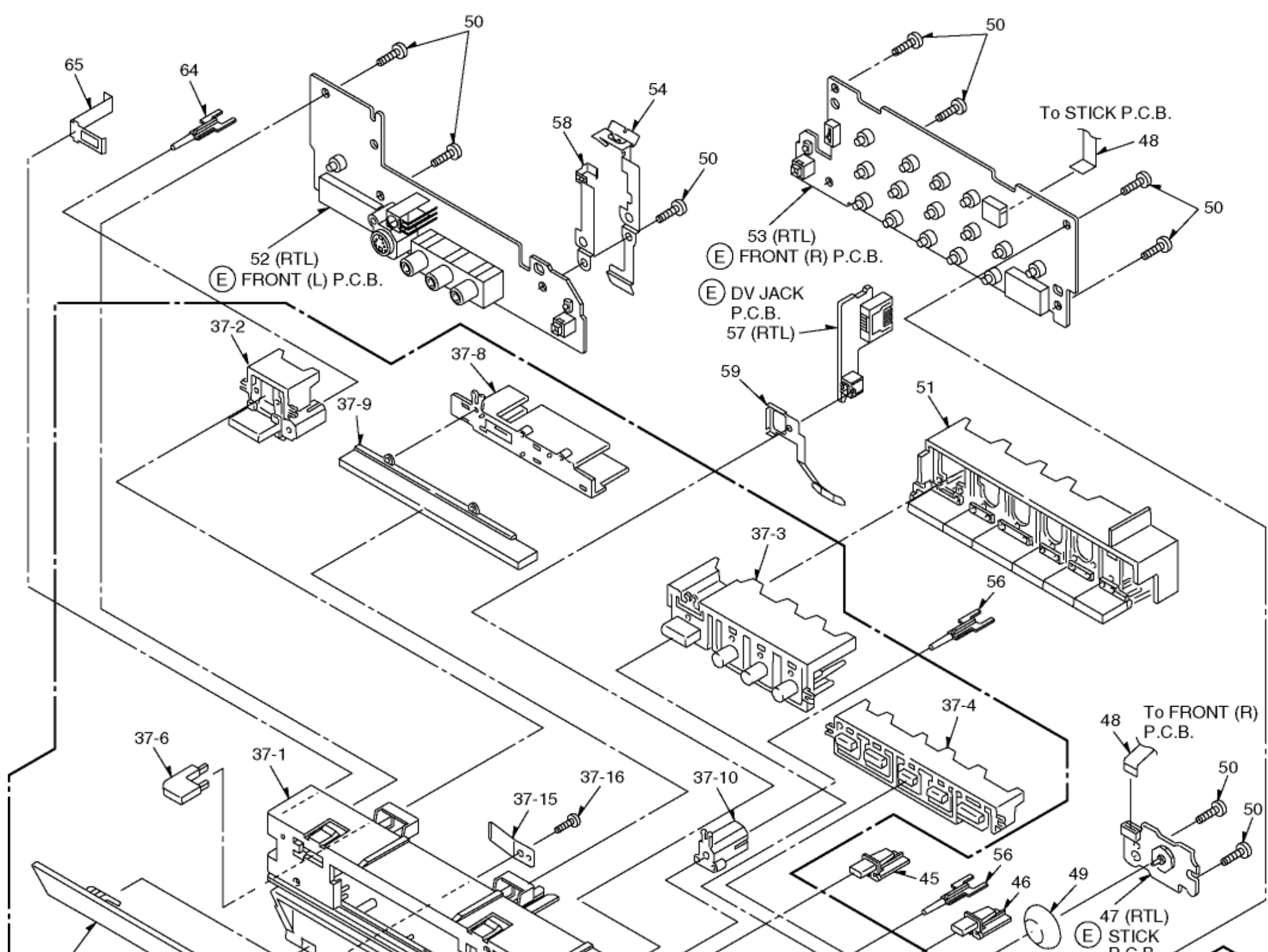


]

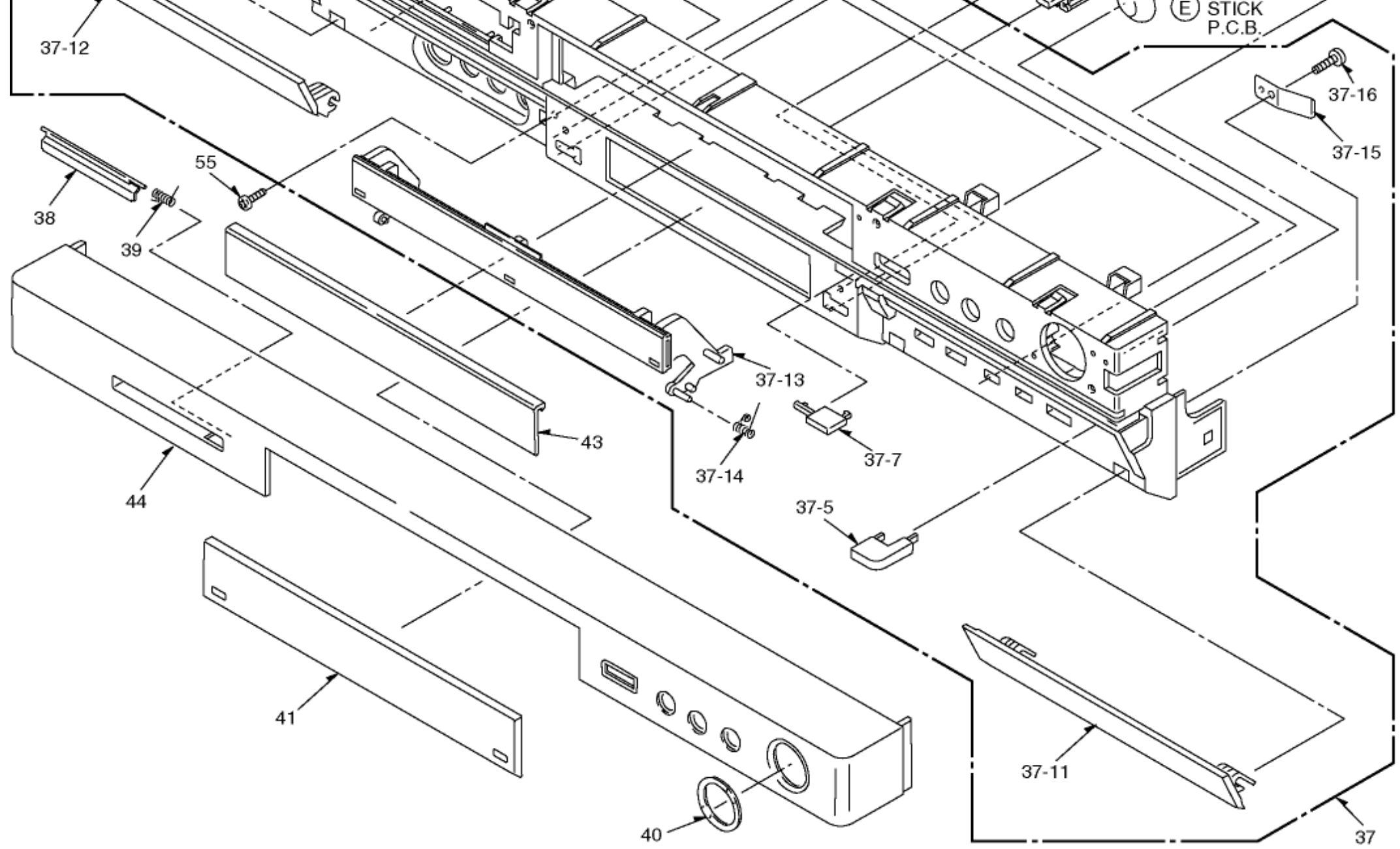
]



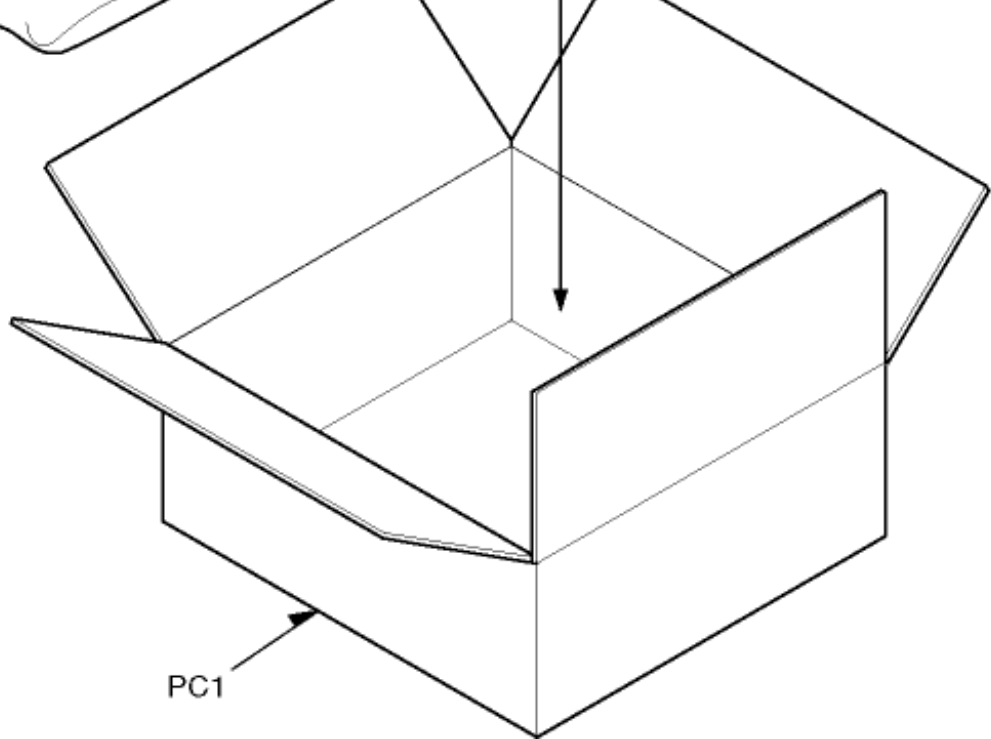




E STICK
P.C.B.



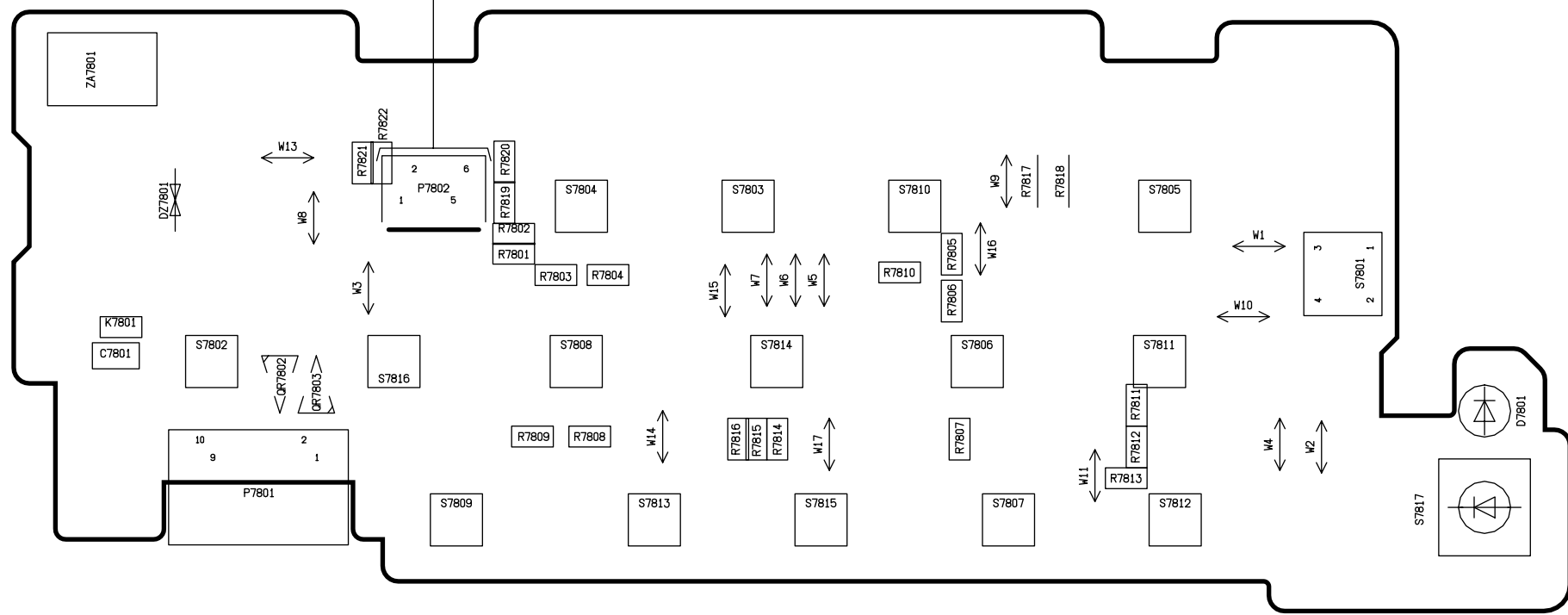
PC4



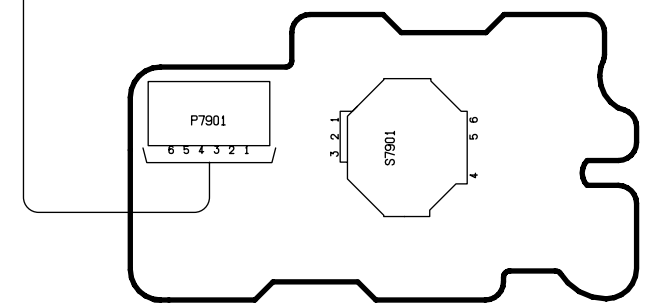
PC1



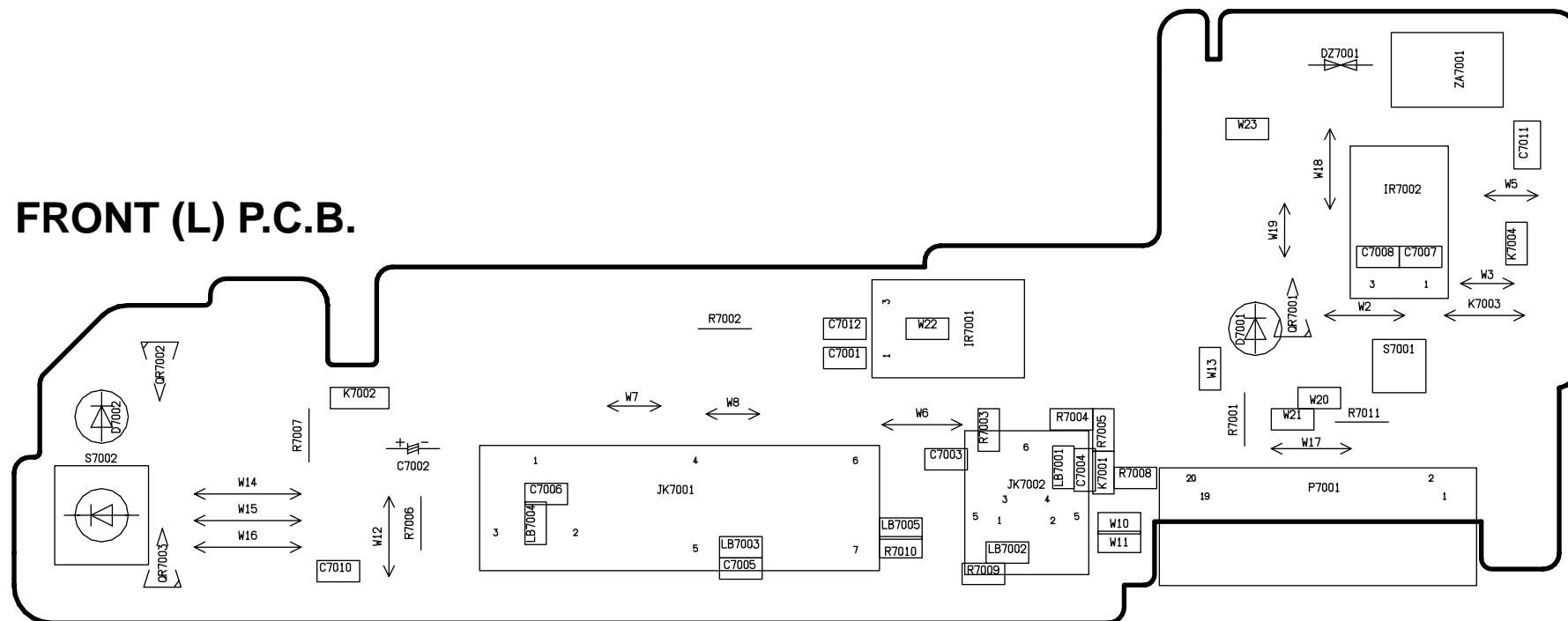
FRONT (R) P.C.B.



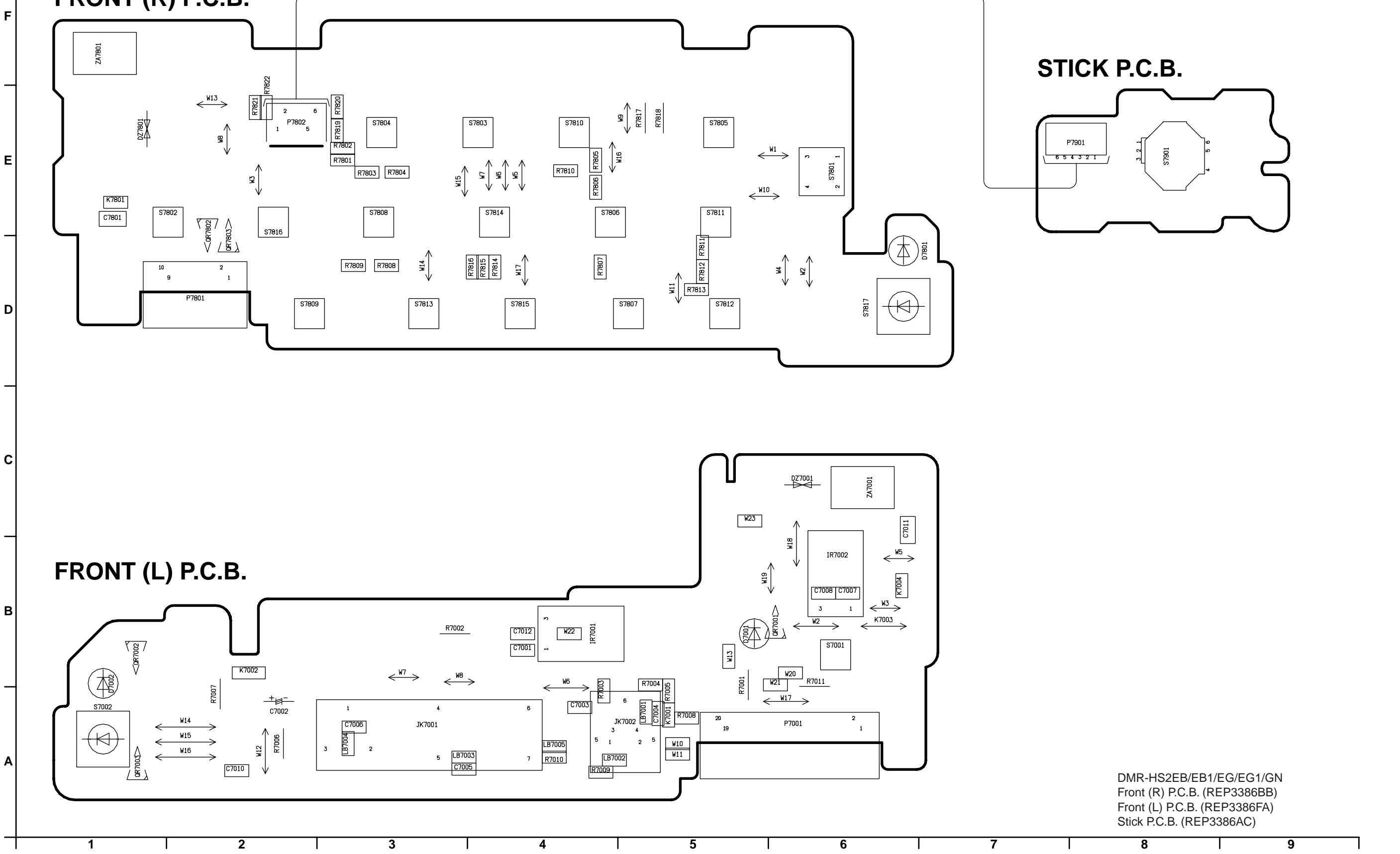
STICK P.C.B.



FRONT (L) P.C.B.

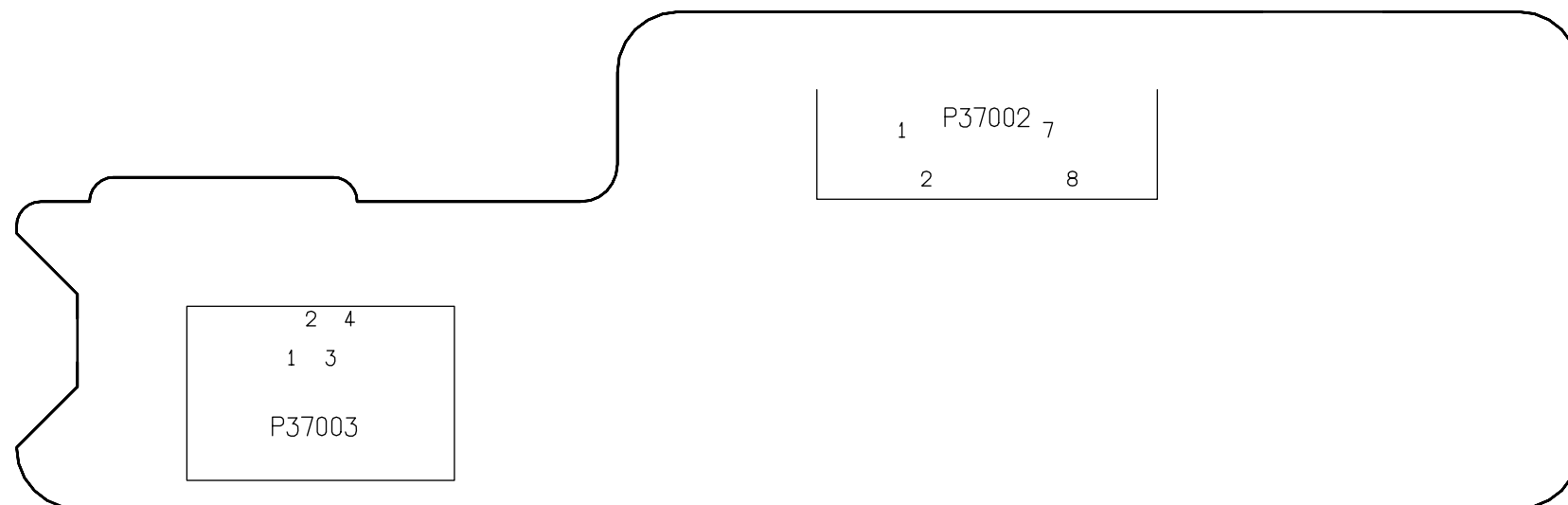


DMR-HS2EB/EB1/EG/EG1/GN
 Front (R) P.C.B. (REP3386BB)
 Front (L) P.C.B. (REP3386FA)
 Stick P.C.B. (REP3386AC)

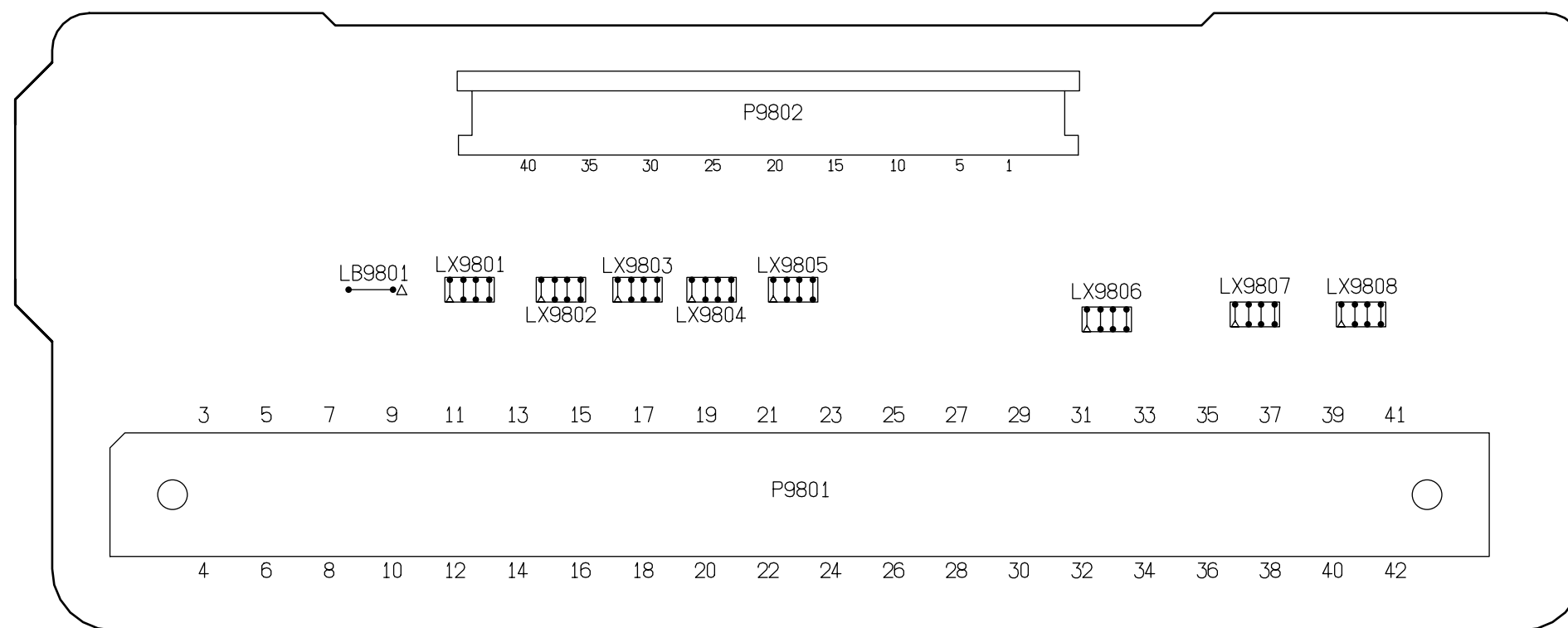


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DV INPUT JACK P.C.B.

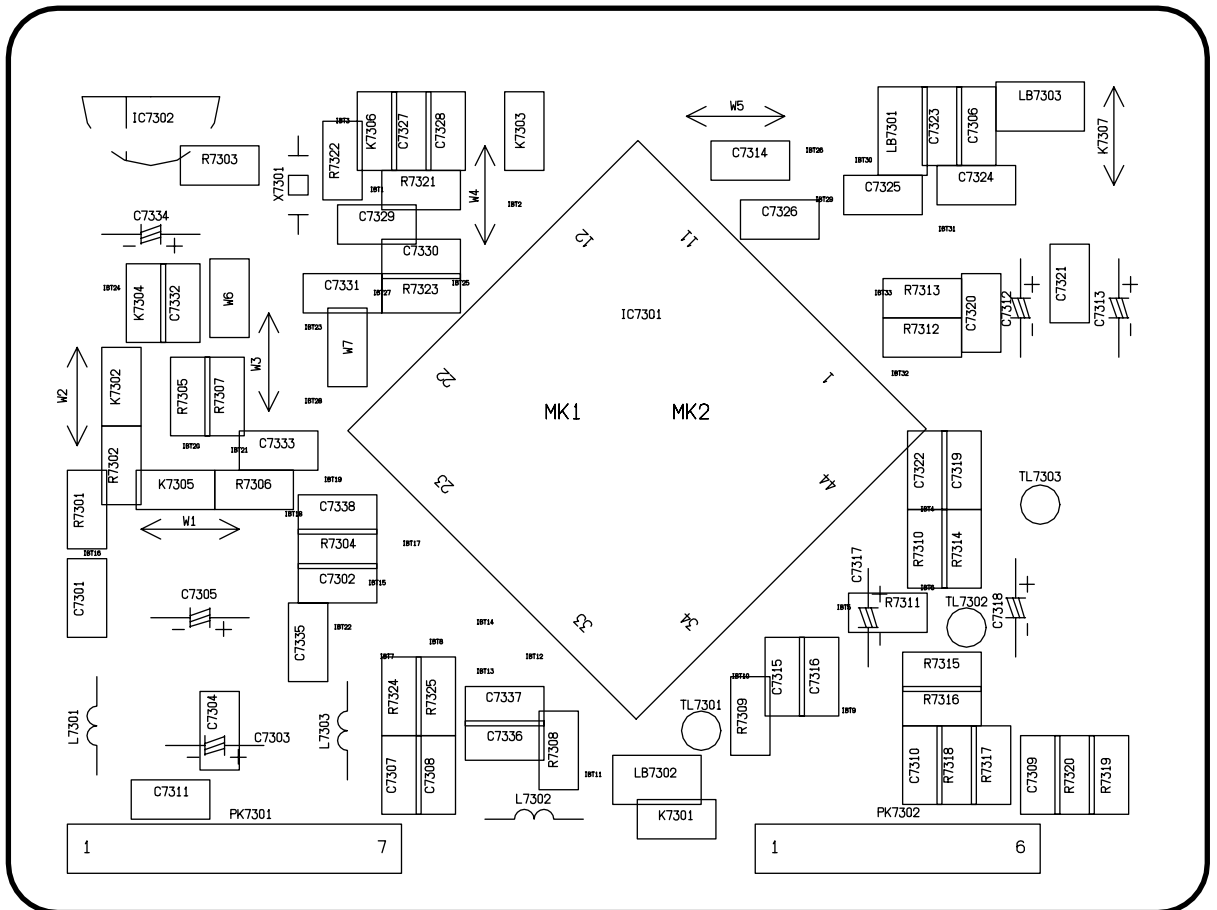


ATAPI P.C.B.



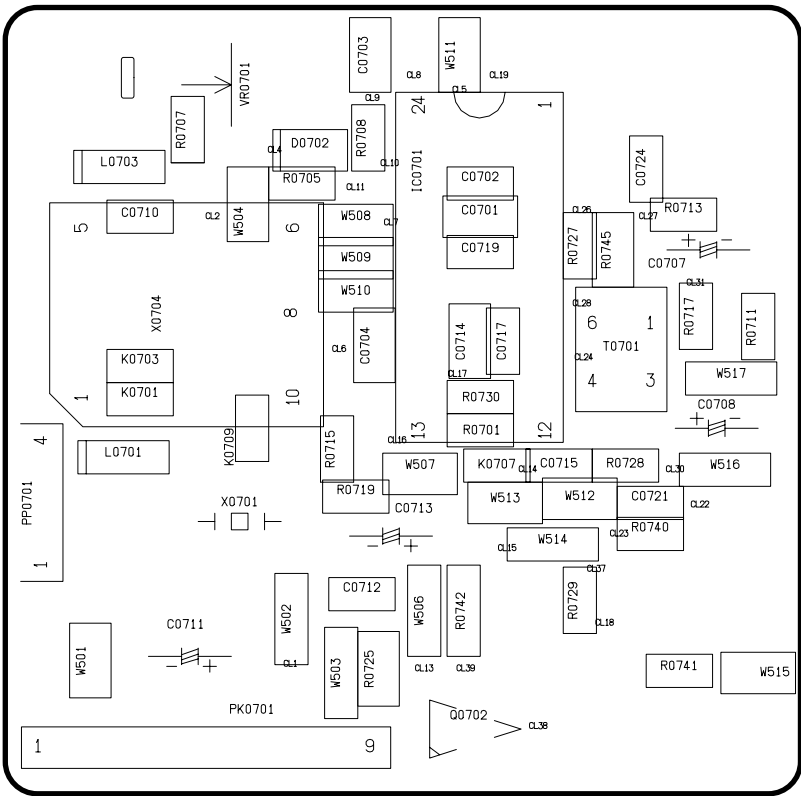
1 2 3 4 5 6 7 8

Nicam/Decoder P.C.B.



DMR-HS2EB/EB1/EG/EG1/GN
Nicam/Decoder P.C.B. (VEP07A51A)

VIF Decoder P.C.B.



VIF Decoder P.C.B.
 VEP07A23T:DMR-HS2EB/EB1
 VEP07A23S:DMR-HS2EG/EG1/GN

SCART P.C.B.			
Transistor		QR3908	B-2 F
Q3902	A-1 F	QR3909	B-2 F
Q3905	B-3 F	QR3910	B-3 F
Q3906	B-3 F	QR3911	B-3 F
Q3907	A-5 F	QR3912	A-3 F
Q3908	B-2 F	QR3913	A-2 F
Q3909	B-3 F	QR3914	A-1 F
Q3910	B-3 F	QR3915	A-1 F
Transistor - resistors		Integrated Circuits	
QR3901	B-5 F	IC3901	B-2 F
QR3902	A-5 F	Connector	
QR3903	B-5 F	JK3904	A-2 C
QR3904	A-5 F	JK3905	B-2 C
QR3905	A-5 F	PS3901	A-4 C
QR3906	B-5 F	PS3902	A-1 C
QR3907	B-5 F	PS3903	A-5 C

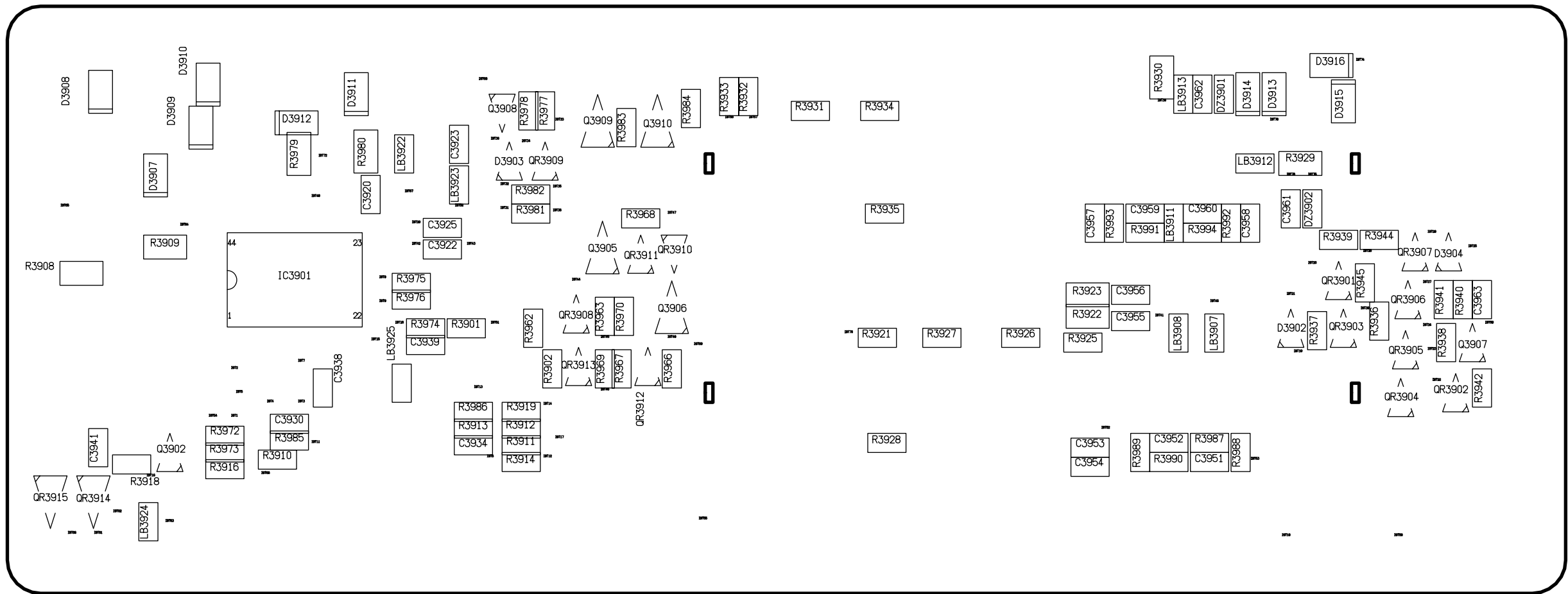
ADDRESS INFORMATION

C....COMPONENT SIDE

F....FOIL SIDE

B

A



(FOIL SIDE)

DMR-HS2EB/EB1/EG/EG1/GN
Scart P.C.B. (REP2578A)

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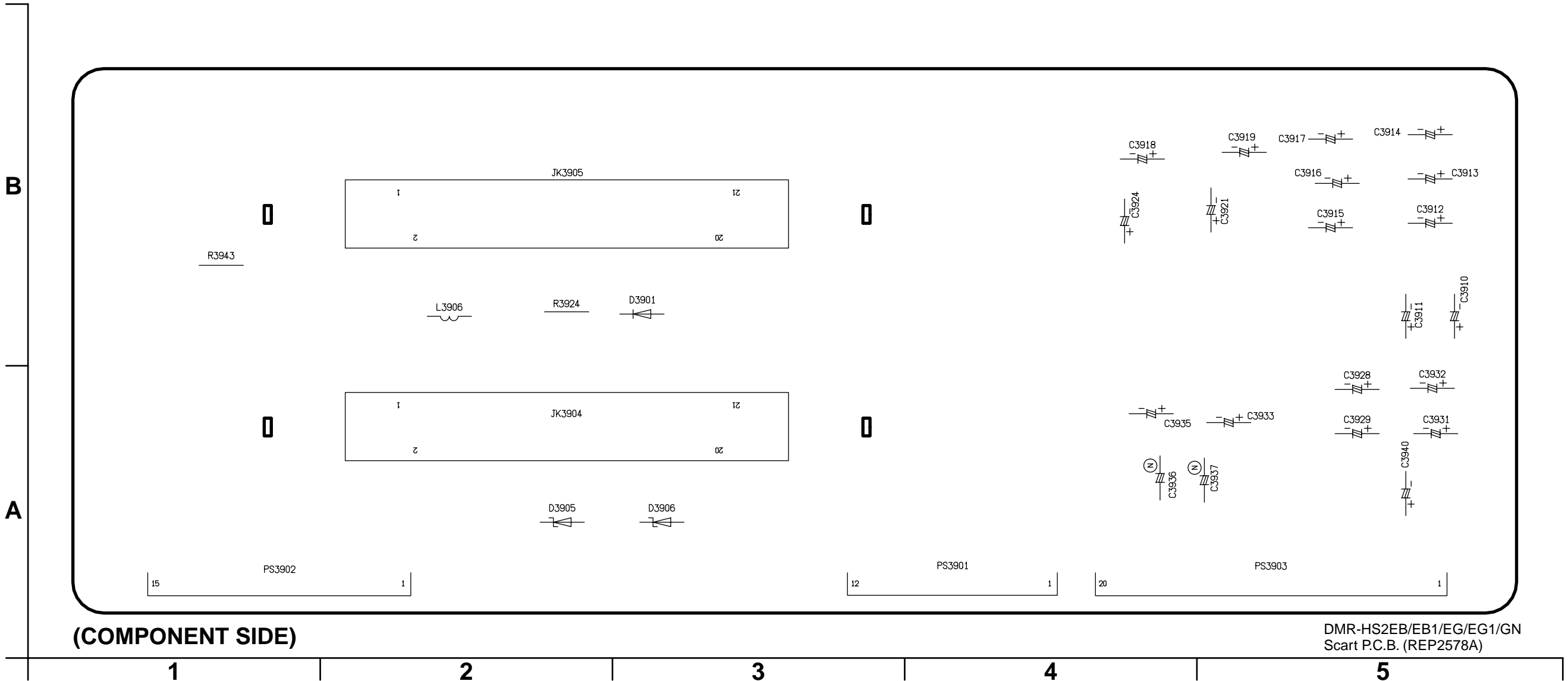
5

SCART P.C.B.			
Transistor		QR3908	B-2 F
Q3902	A-1 F	QR3909	B-2 F
Q3905	B-3 F	QR3910	B-3 F
Q3906	B-3 F	QR3911	B-3 F
Q3907	A-5 F	QR3912	A-3 F
Q3908	B-2 F	QR3913	A-2 F
Q3909	B-3 F	QR3914	A-1 F
Q3910	B-3 F	QR3915	A-1 F
Transistor - resistors		Integrated Circuits	
QR3901	B-5 F	IC3901	B-2 F
QR3902	A-5 F	Connector	
QR3903	B-5 F	JK3904	A-2 C
QR3904	A-5 F	JK3905	B-2 C
QR3905	A-5 F	PS3901	A-4 C
QR3906	B-5 F	PS3902	A-1 C
QR3907	B-5 F	PS3903	A-5 C

ADDRESS INFORMATION

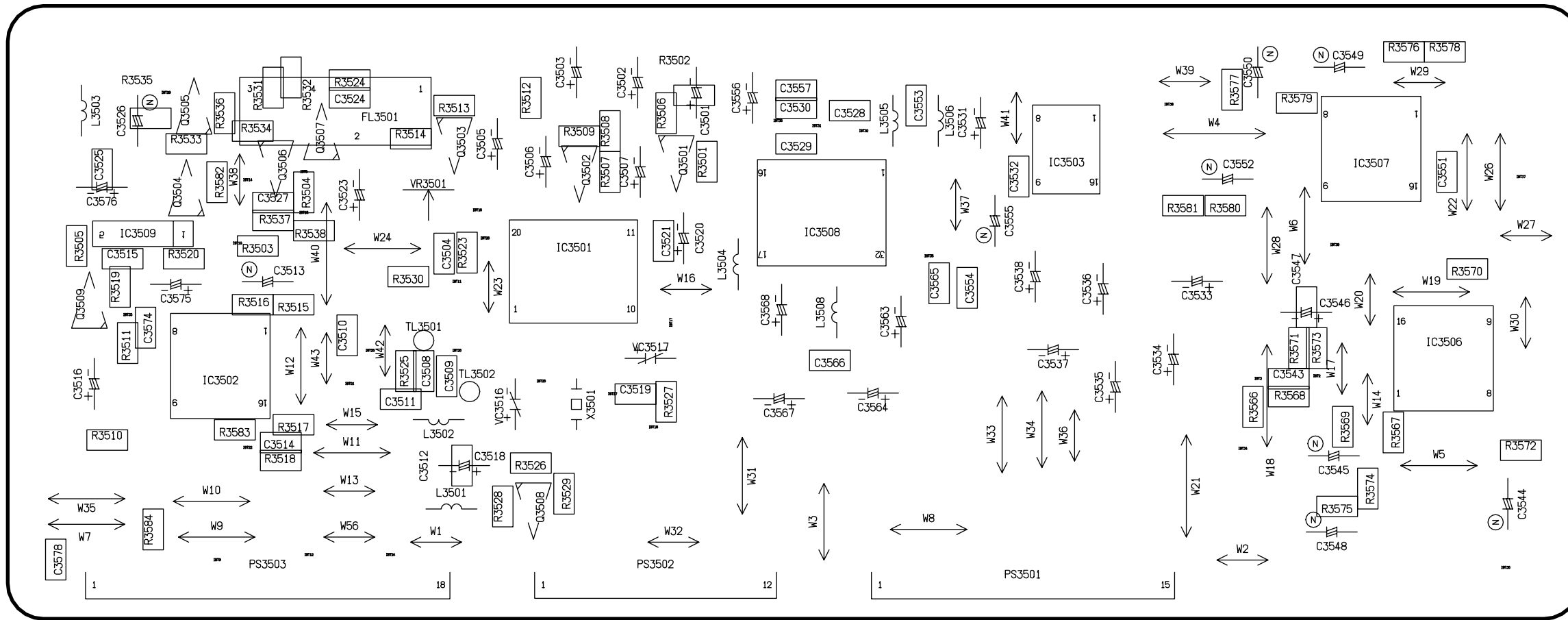
C....COMPONENT SIDE

F....FOIL SIDE



RGB P.C.B.			
Transistor		IC3507	B-5
Q3501	B-3	IC3508	B-3
Q3502	B-2	IC3509	B-1
Q3503	B-2	Test Points	
Q3504	B-1	TL3501	B-2
Q3505	B-1	TL3502	A-2
Q3506	B-1	Connector	
Q3507	B-2	PS3501	A-4
Q3508	A-2	PS3502	A-3
Q3509	B-1	PS3503	A-1
Integrated Circuits		Volume	
IC3501	B-2	VC3516	A-2
IC3502	A-2	VC3517	A-3
IC3503	B-4	VR3501	B-2
IC3506	B-5		

ADDRESS INFORMATION



DMR-HS2EB/EB1/EG/EG1/GN
RGB P.C.B. (REP2579A)

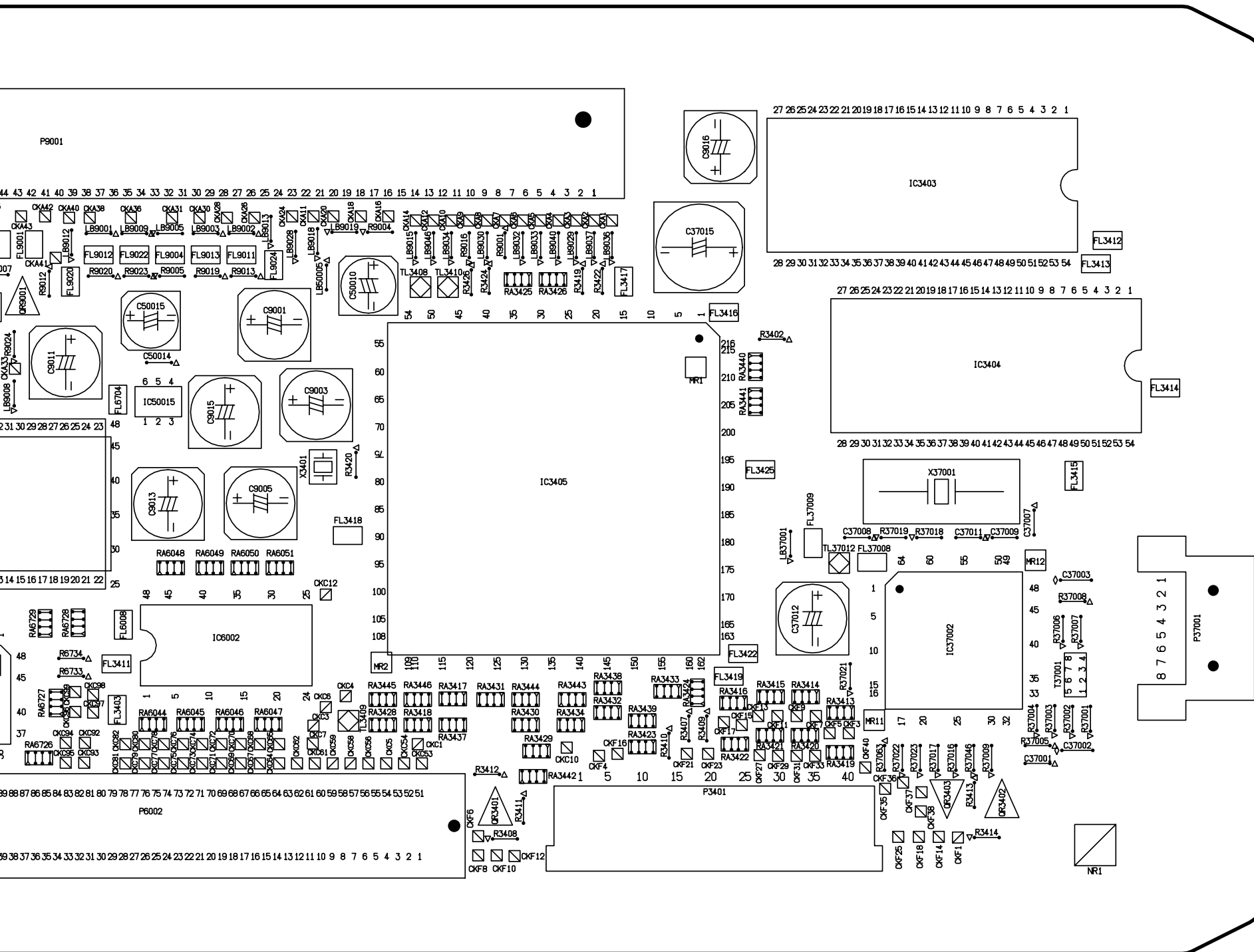
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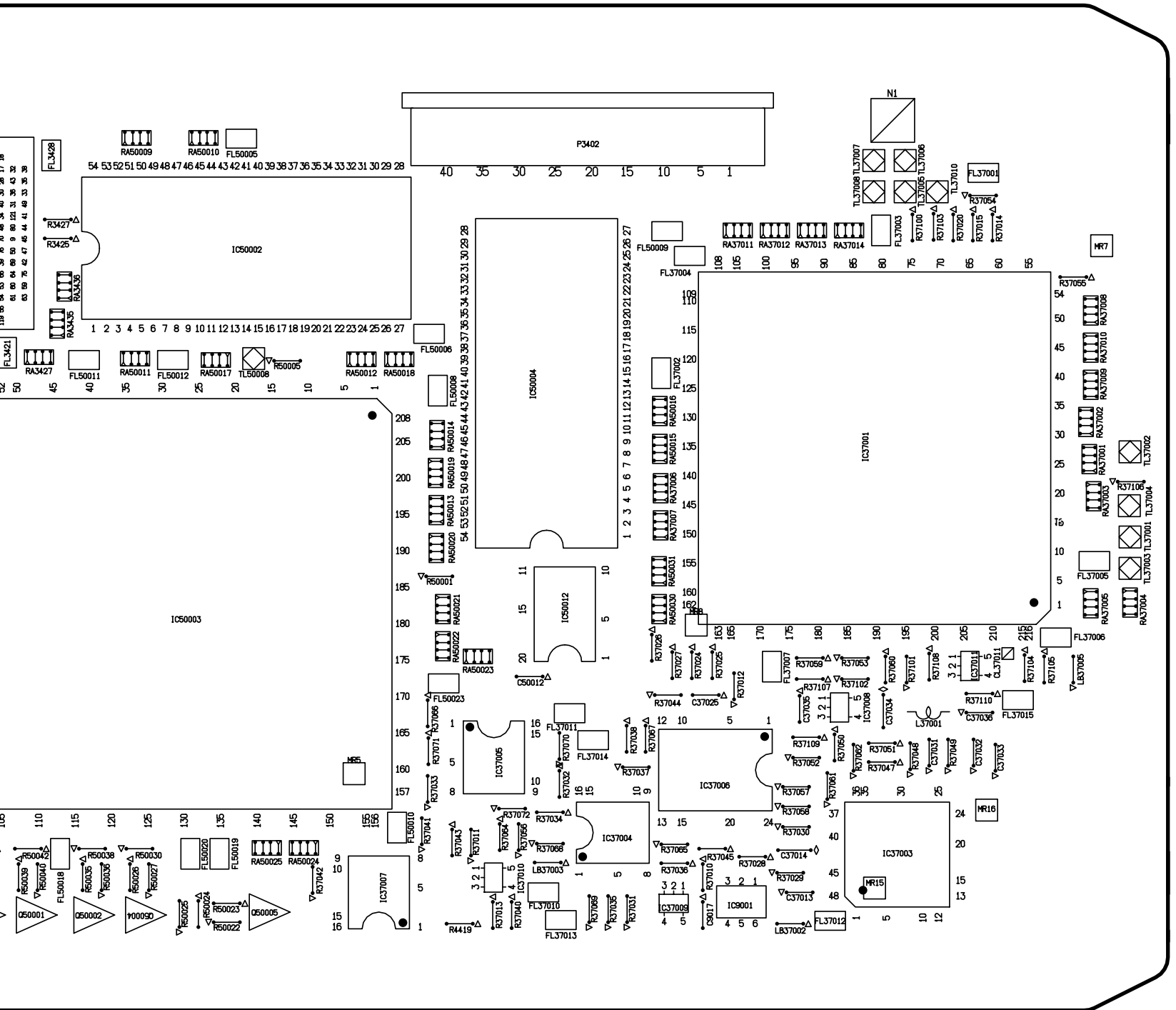
4

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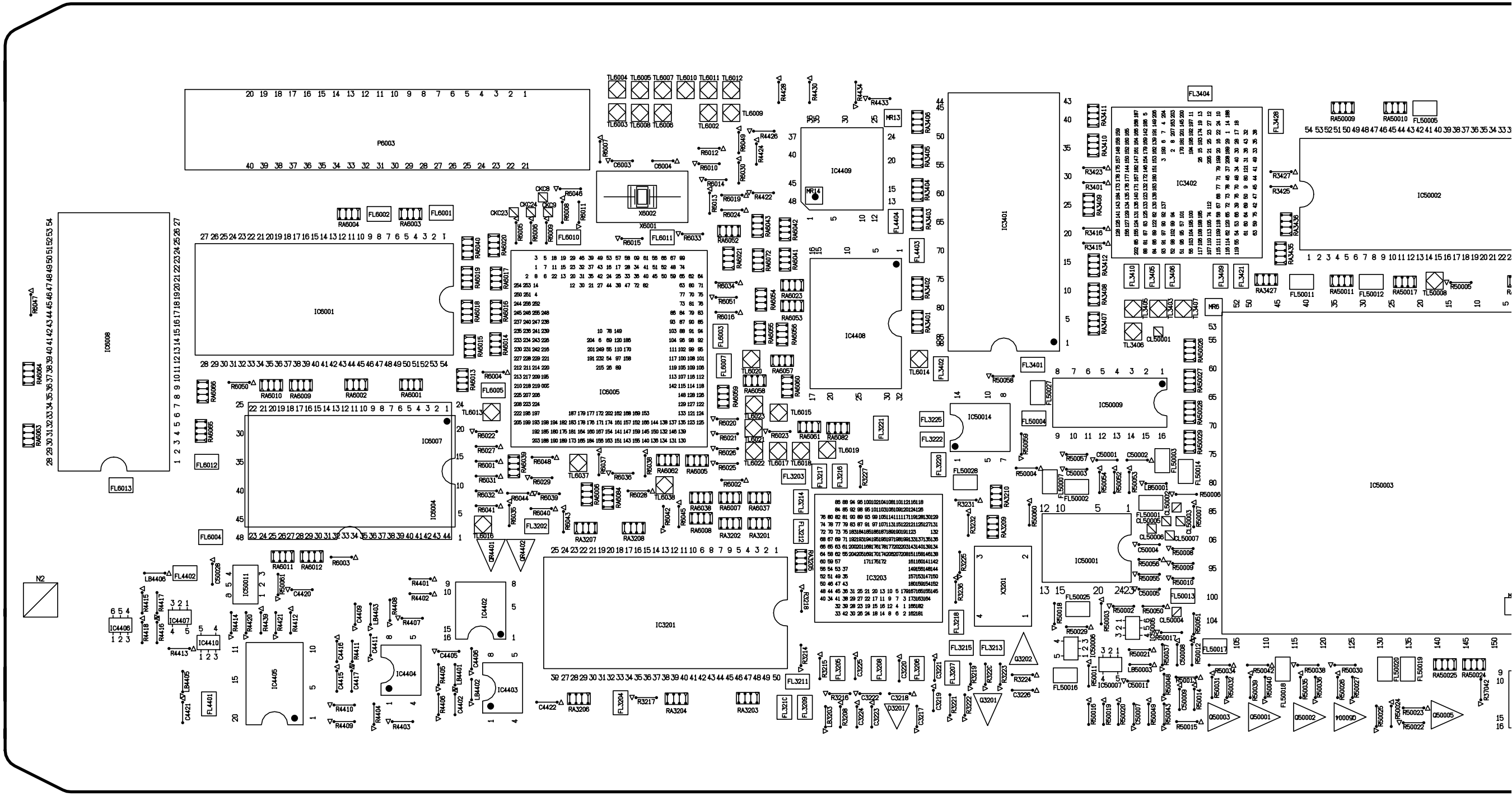
*IC6707 is not supplied in the form of an individual part. When replacing, be sure to replace the digital p.c.b. and not IC6707 singly.

Digital P.C.B. (Foil Side) 2/2 Section
 DMR-HS2EB/EB1: REP3391CE DMR-HS2EG/EG1: REP3391AC
 DMR-HS2GN: REP3391AE



Digital P.C.B. (Component Side) 2/2 Section
 DMR-HS2EB/EB1: REP3391CE DMR-HS2EG/EG1: REP3391AC
 DMR-HS2GN: REP3391AE

DIGITAL P.C.B.



(COMPONENT SIDE)

Digital P.C.B. (Component Side) 1/2 Section
DMR-HS2EB/EB1: REP3391CE DMR-HS2EG/EG1: REP3391AC
DMR-HS2GN: REP3391AE

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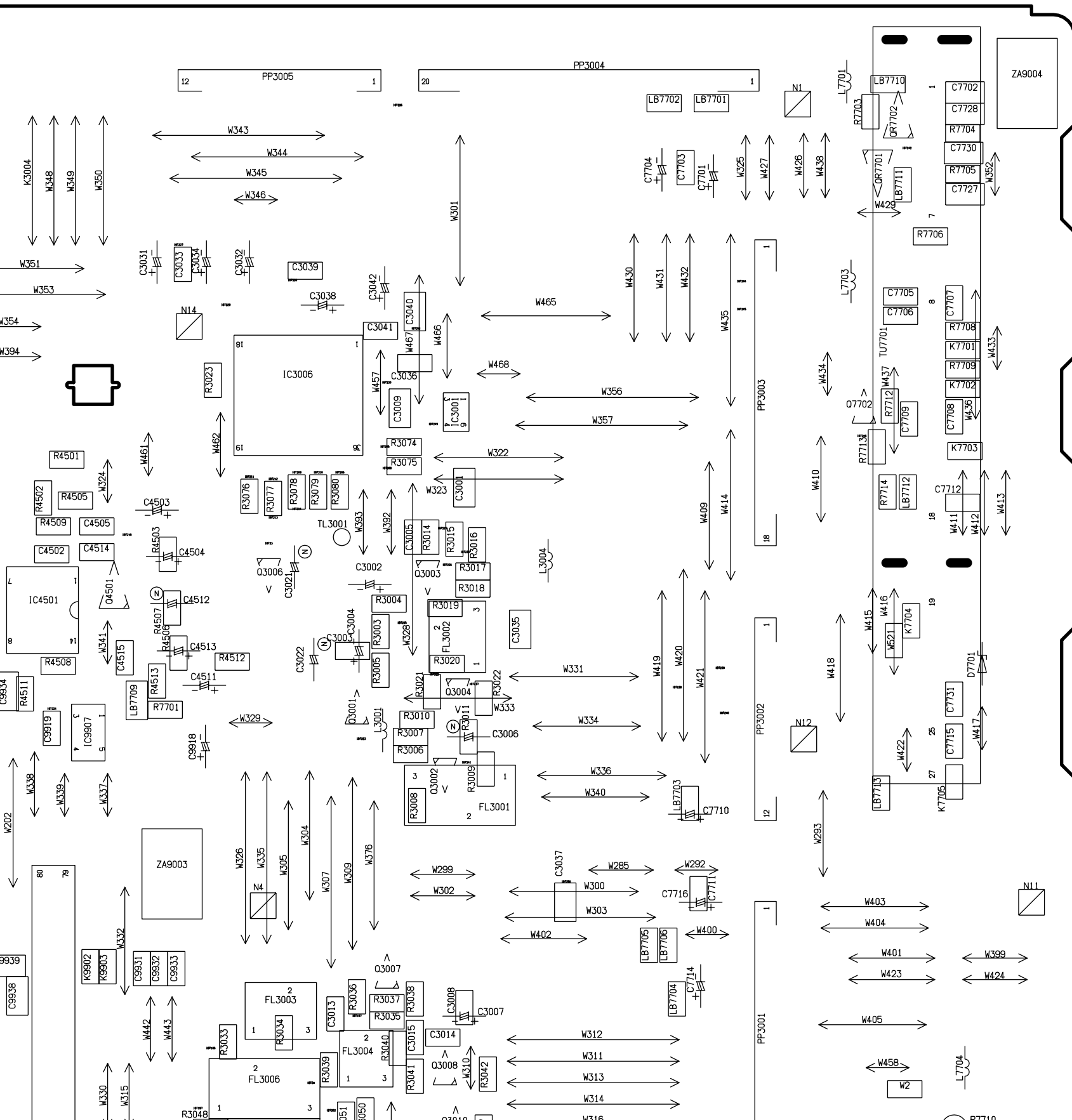
DIGITAL P.C.B.

Transistor		IC50010	C-1	F	CKA6	C-6	F	CKC61	A-6	F	CKE3	A-3	F	TL3404	C-5	C	
Q3201	A-4	C	A-2	C	CKA66	C-4	F	CKC62	A-6	F	CKE30	A-4	F	TL3405	C-5	C	
Q3202	A-4	C	B-7	C	CKA68	C-3	F	CKC64	A-6	F	CKE31	A-4	F	TL3406	B-5	C	
Q50001	A-5	C	C-1	F	CKA7	C-6	F	CKC66	A-6	F	CKE32	A-4	F	TL3407	C-5	C	
Q50002	A-5	C	B-4	C	CKA70	C-4	F	CKC67	A-6	F	CKE33	A-4	F	TL3409	A-6	F	
Q50003	A-5	C	B-5	F	CKA72	C-4	F	CKC68	A-6	F	CKE34	A-4	F	TL37001	B-8	C	
Q50004	A-6	C	C-2	C	CKA74	C-4	F	CKC69	A-6	F	CKE35	A-3	F	TL37002	B-8	C	
Q50005	A-6	C	B-5	F	CKA75	C-3	F	CKC7	A-6	F	CKE37	A-4	F	TL37003	B-8	C	
Q6701	C-3	F	B-4	F	CKA76	C-3	F	CKC70	A-6	F	CKE39	A-4	F	TL37004	B-8	C	
Q6702	C-3	F	B-2	C	CKA78	C-3	F	CKC71	A-5	F	CKE40	A-4	F	TL37005	C-8	C	
Q6703	C-3	F	B-4	C	CKA8	C-6	F	CKC72	A-5	F	CKE42	A-4	F	TL37006	C-8	C	
Q6704	C-3	F	B-3	C	CKA80	C-3	F	CKC73	A-5	F	CKE44	A-4	F	TL37007	C-8	C	
Transistor-resistors		IC6006	B-1	F	CKA9	C-6	F	CKC74	A-5	F	CKE46	A-4	F	TL37008	C-8	C	
QR3401	A-6	F	B-2	C	CKC1	A-6	F	CKC75	A-5	F	CKE48	A-4	F	TL37010	C-8	C	
QR4401	B-2	C	B-1	C	CKC10	A-7	F	CKC76	A-5	F	CKE49	A-4	F	TL37012	B-7	F	
QR4402	B-3	C	B-2	F	CKC11	A-4	F	CKC77	A-5	F	CKE5	A-3	F	TL50008	C-6	C	
QR9001	C-5	F	A-3	F	CKC12	B-6	F	CKC78	A-5	F	CKE50	A-4	F	TL6002	C-3	C	
Integrated Circuits		IC6703	A-5	F	CKC14	A-4	F	CKC79	A-5	F	CKE6	A-3	F	TL6003	C-3	C	
IC3201	A-3	C	A-5	F	CKC15	A-4	F	CKC8	C-3	C	CKE8	A-3	F	TL6004	C-3	C	
IC3202	B-4	F	B-4	F	CKC17	A-4	F	CKC80	A-5	F	CKE9	A-3	F	TL6005	C-3	C	
IC3202	B-5	F	B-3	F	CKC18	B-4	F	CKC81	A-5	F	CKF1	A-8	F	TL6006	C-3	C	
IC3203	B-4	C	B-5	F	CKC20	A-3	F	CKC82	A-5	F	CKF10	A-6	F	TL6007	C-3	C	
IC3401	C-4	C	A-7	C	CKC21	B-4	F	CKC84	B-4	F	CKF11	A-7	F	TL6008	C-3	C	
IC3402	C-5	C	Test Points			CKC23	C-3	C	CKC85	B-4	F	CKF12	A-6	F	TL6009	C-3	C
IC3403	C-8	F	CKA1	C-7	F	CKC24	C-3	C	CKC86	B-4	F	CKF13	A-7	F	TL6010	C-3	C
IC3404	C-8	F	CKA10	C-6	F	CKC25	A-2	F	CKC87	B-4	F	CKF14	A-8	F	TL6011	C-3	C
IC3405	B-6	F	CKA11	C-6	F	CKC26	A-3	F	CKC88	A-4	F	CKF15	A-7	F	TL6012	C-3	C
IC37001	B-8	C	CKA12	C-6	F	CKC27	A-3	F	CKC89	A-4	F	CKF16	A-7	F	TL6013	B-2	C
IC37002	B-8	F	CKA14	C-6	F	CKC28	A-3	F	CKC9	C-3	C	CKF17	A-7	F	TL6014	B-4	C
IC37003	A-8	C	CKA16	C-6	F	CKC3	A-6	F	CKC90	A-4	F	CKF18	A-8	F	TL6016	B-2	C
IC37004	A-7	C	CKA18	C-6	F	CKC30	B-1	F	CKC91	A-4	F	CKF21	A-7	F	TL6016	B-4	C
IC37005	A-7	C	CKA2	C-7	F	CKC31	B-1	F	CKC92	A-5	F	CKF23	A-7	F	TL6017	B-4	C
IC37006	A-7	C	CKA20	C-6	F	CKC32	B-1	F	CKC93	A-5	F	CKF25	A-8	F	TL6018	B-4	C
IC37007	A-6	C	CKA24	C-6	F	CKC33	B-1	F	CKC94	A-5	F	CKF27	A-7	F	TL6019	B-4	C
IC37008	B-8	C	CKA26	C-6	F	CKC34	B-1	F	CKC95	A-5	F	CKF29	A-7	F	TL6020	B-3	C
IC37009	A-7	C	CKA28	C-5	F	CKC35	B-1	F	CKC96	A-5	F	CKF3	A-7	F	TL6021	B-3	C
IC37010	A-7	C	CKA3	C-7	F	CKC36	B-1	F	CKC97	A-5	F	CKF31	A-7	F	TL6022	B-3	C
IC37011	A-8	C	CKA30	C-5	F	CKC37	B-1	F	CKC98	B-5	F	CKF33	A-7	F	TL6023	B-3	C
IC4401	C-3	F	CKA31	C-5	F	CKC38	B-1	F	CKC99	B-5	F	CKF35	A-8	F	TL6037	B-2	C
IC4402	A-2	C	CKA31	C-5	F	CKC4	B-6	F	CKD1	A-2	F	CKF36	A-8	F	TL6038	B-2	C
IC4403	A-2	C	CKA36	C-5	F	CKC40	B-1	F	CKE1	A-3	F	CKF37	A-8	F	TL6701	A-2	F
IC4404	A-2	C	CKA38	C-5	F	CKC41	B-1	F	CKE11	A-3	F	CKF38	A-8	F	TL6702	A-2	F
IC4405	A-2	C	CKA39	C-5	F	CKC42	A-1	F	CKE12	A-3	F	CKF4	A-7	F	TL6703	C-2	F
IC4406	A-1	F	CKA4	C-7	F	CKC43	A-1	F	CKE14	A-3	F	CKF40	A-7	F	TL6704	A-1	F
IC4407	A-1	C	CKA40	C-5	F	CKC44	A-1	F	CKE15	A-3	F	CKF5	A-7	F	TL6709	A-2	F
IC4408	B-4	C	CKA41	C-5	F	CKC45	B-1	F	CKE16	A-3	F	CKF6	A-6	F	TL9005	B-3	F
IC4409	C-4	C	CKA42	C-5	F	CKC46	B-1	F	CKE17	A-3	F	CKF7	A-7	F	Connectors		
IC4410	A-1	C	CKA43	C-5	F	CKC47	B-1	F	CKE19	A-3	F	CKF8	A-6	F	P3401	A-7	F
IC50001	B-5	C	CKA44	C-5	F	CKC48	B-1	F	CKE20	A-3	F	CKF9	A-7	F	P3402	C-7	C
IC50002	C-6	C	CKA47	C-5	F	CKC49	A-4	F	CKE20	A-3	F	CL50001	B-5	C	P6001	A-2	F
IC50003	B-6	C	CKA49	C-5	F	CKC5	A-6	F	CKE21	A-3	F	CL50002	B-5	C	P6002	A-5	F
IC50004	C-7	C	CKA5	C-6	F	CKC53	A-6	F	CKE22	A-3	F	CL50003	B-5	C	P6003	C-2	C
IC50005	A-5	C	CKA51	C-4	F	CKC54	A-6	F	CKE24	A-3	F	CL50004	A-5	C	P6004	A-2	F
IC50006	A-5	C	CKA55	C-4	F	CKC56	A-6	F	CKE25	A-3	F	CL50005	B-5	C	P6701	A-3	F
IC50007	A-5	C	CKA55	C-5	F	CKC58	A-6	F	CKE26	A-3	F	CL50006	B-5	C	P9001	A-5	F
IC50008	C-1	F	CKA57	C-4	F	CKC59	A-6	F	CKE27	A-3	F	CL50007	B-5	C	PS37001	B-9	F
IC50009	B-5	C	CKA59	C-4	F	CKC6	A-6	F	CKE29	A-3	F	IBT1	B-3	F			

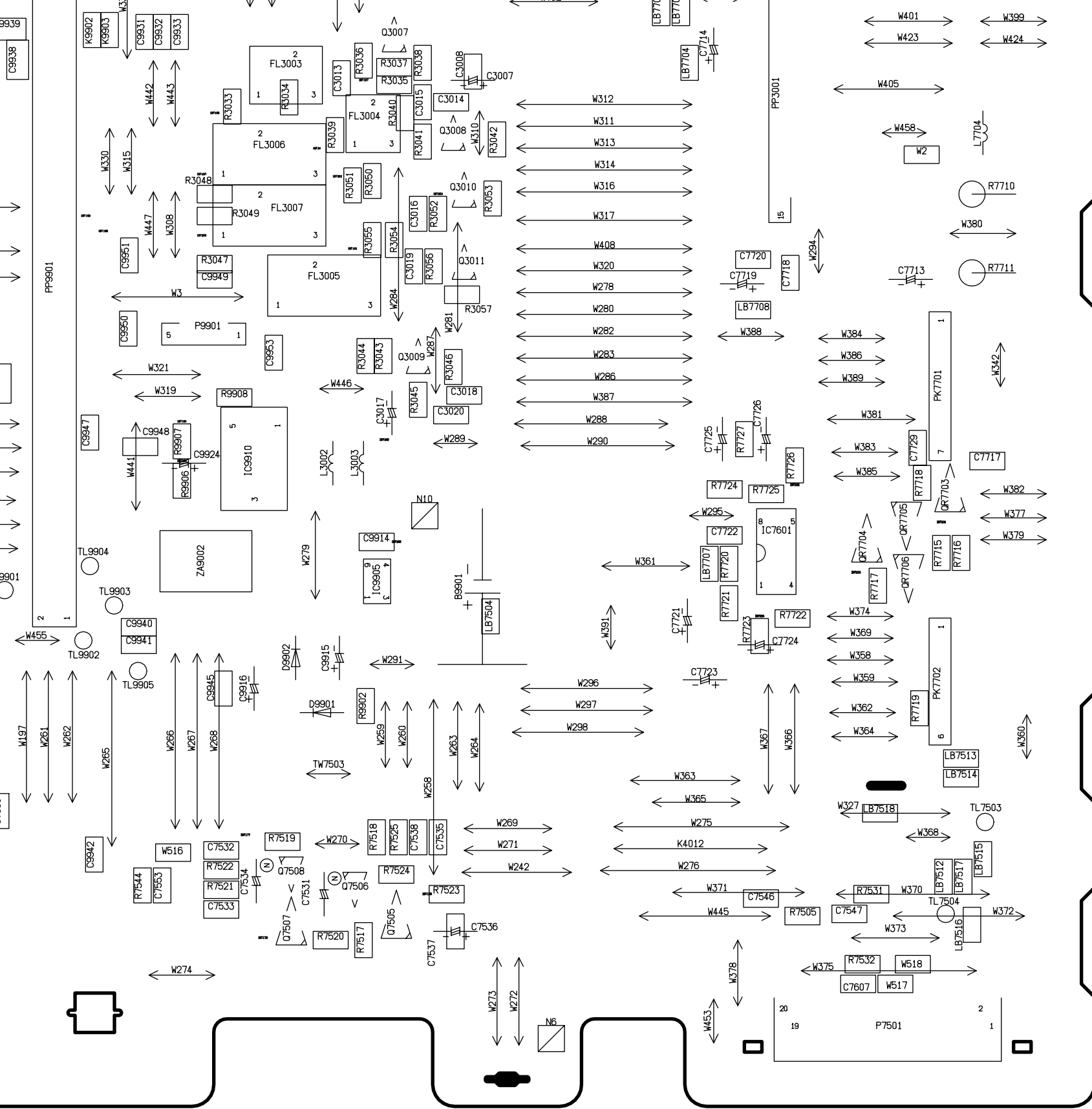
ADDRESS INFORMATION

C.....COMPONENT SIDE

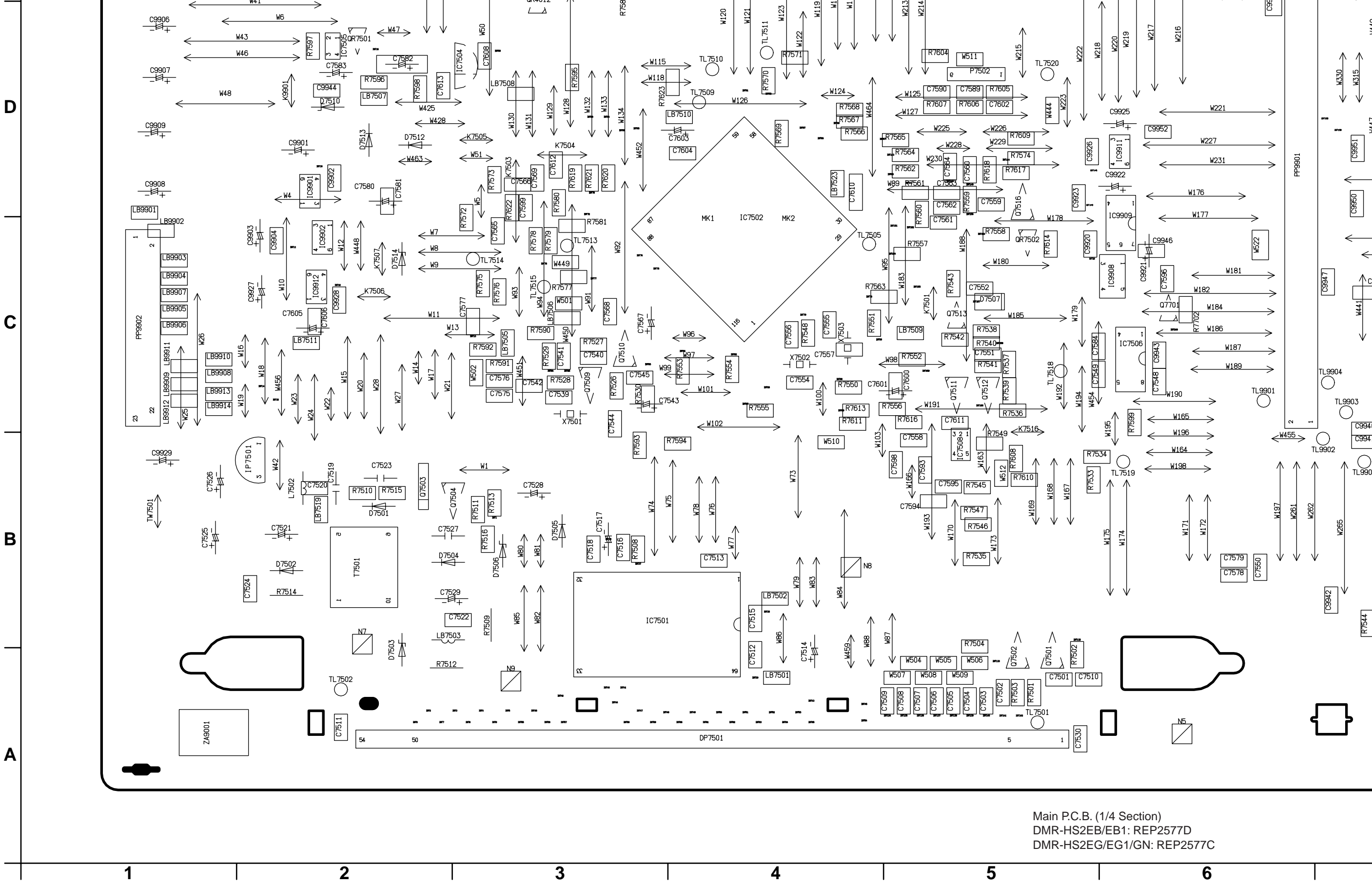
F.....FOIL SIDE



Main P.C.B. (4/4 Section)
 DMR-HS2EB/EB1: REP2577D
 DMR-HS2EG/EG1/GN: REP2577C



Main P.C.B. (2/4 Section)
 DMR-HS2EB/EB1: REP2577D
 DMR-HS2EG/EG1/GN: REP2577C



Main P.C.B. (1/4 Section)
DMR-HS2EB/EB1: REP2577D
DMR-HS2EG/EG1/GN: REP2577C

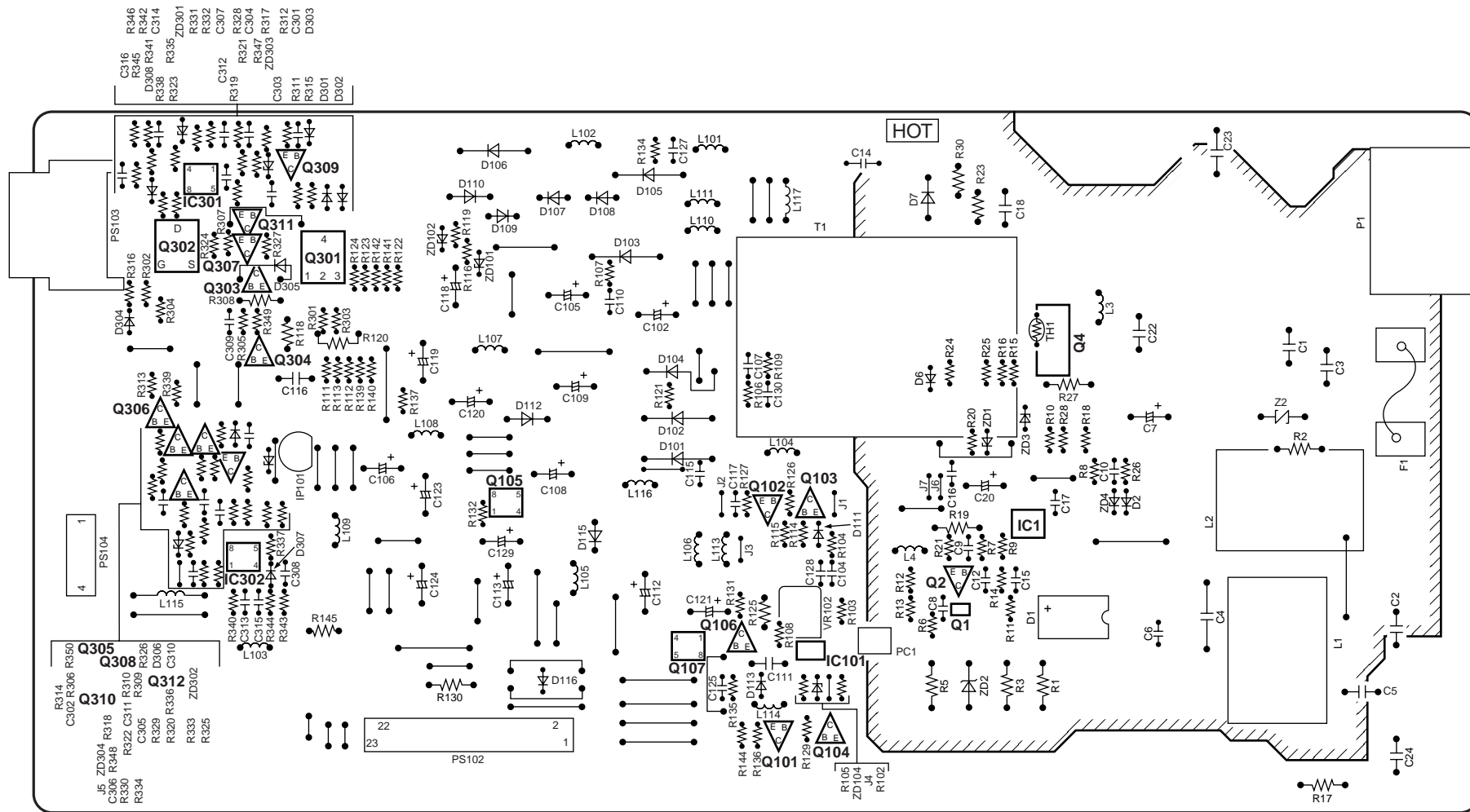
MAIN P.C.B.

Transistor		QR4010	F-4	IC9910	C-7
Q3001	F-7	QR4011	F-5	IC9911	D-6
Q3002	E-8	QR4012	E-3	IC9912	C-2
Q3003	F-8	QR7501	D-2	Test Points	
Q3004	F-8	QR7502	C-5	TL3001	F-3
Q3006	F-7	QR7701	H-9	TL7501	A-5
Q3007	E-8	QR7702	H-9	TL7502	A-9
Q3008	D-8	QR7703	C-10	TL7503	B-1
Q3009	C-8	QR7704	C-9	TL7504	A-1
Q3010	D-8	QR7705	C-9	TL7505	C-6
Q3011	D-8	QR7706	C-9	TL7509	D-7
Q4001	F-4	Integrated Circuits		TL7510	D-7
Q4002	F-4	IC3001	G-8	TL7511	D-7
Q4004	F-3	IC3006	G-7	TL7513	C-8
Q4005	G-2	IC4002	G-5	TL7514	C-8
Q4006	G-3	IC4003	G-6	TL7515	C-8
Q4007	F-3	IC4004	F-5	TL7516	E-7
Q4008	G-4	IC4005	H-1	TL7517	E-7
Q4009	F-4	IC4006	H-1	TL7518	C-5
Q4501	F-7	IC4007	G-1	TL7519	B-5
Q7501	A-5	IC4008	G-4	TL7520	D-5
Q7502	A-5	IC4009	G-3	TL9901	C-4
Q7503	B-2	IC4010	G-2	TL9902	B-4
Q7504	B-2	IC4011	G-2	TL9903	C-4
Q7505	A-8	IC4012	F-3	TL9904	C-4
Q7506	B-7	IC4501	F-6	TL9905	B-4
Q7507	A-7	IC7501	B-3	Connector	
Q7508	B-7	IC7502	C-4	JK3001	H-2
Q7509	C-3	IC7503	E-3	P7501	A-10
Q7510	C-3	IC7504	D-2	P7502	D-5
Q7511	C-5	IC7505	D-2	P7504	G-1
Q7512	C-5	IC7506	C-6	P9901	D-7
Q7513	C-5	IC7507	F-2	PK7701	C-10
Q7515	F-2	IC7508	B-5	PK7702	B-10
Q7516	D-5	IC7601	C-9	PP3001	D-9
Q7701	C-6	IC9901	D-2	PP3002	F-9
Q7702	G-9	IC9902	C-2	PP3003	G-9
Transistor - resistors		IC9903	F-2	PP3004	H-8
QR4002	F-3	IC9904	F-3	PP3005	H-7
QR4003	F-3	IC9905	C-8	PP3006	H-5
QR4004	F-3	IC9906	F-2	PP9901	D-6
QR4005	E-3	IC9907	E-7	PP9902	C-1
QR4006	G-2	IC9908	C-6		
QR4007	G-2	IC9909	C-6		

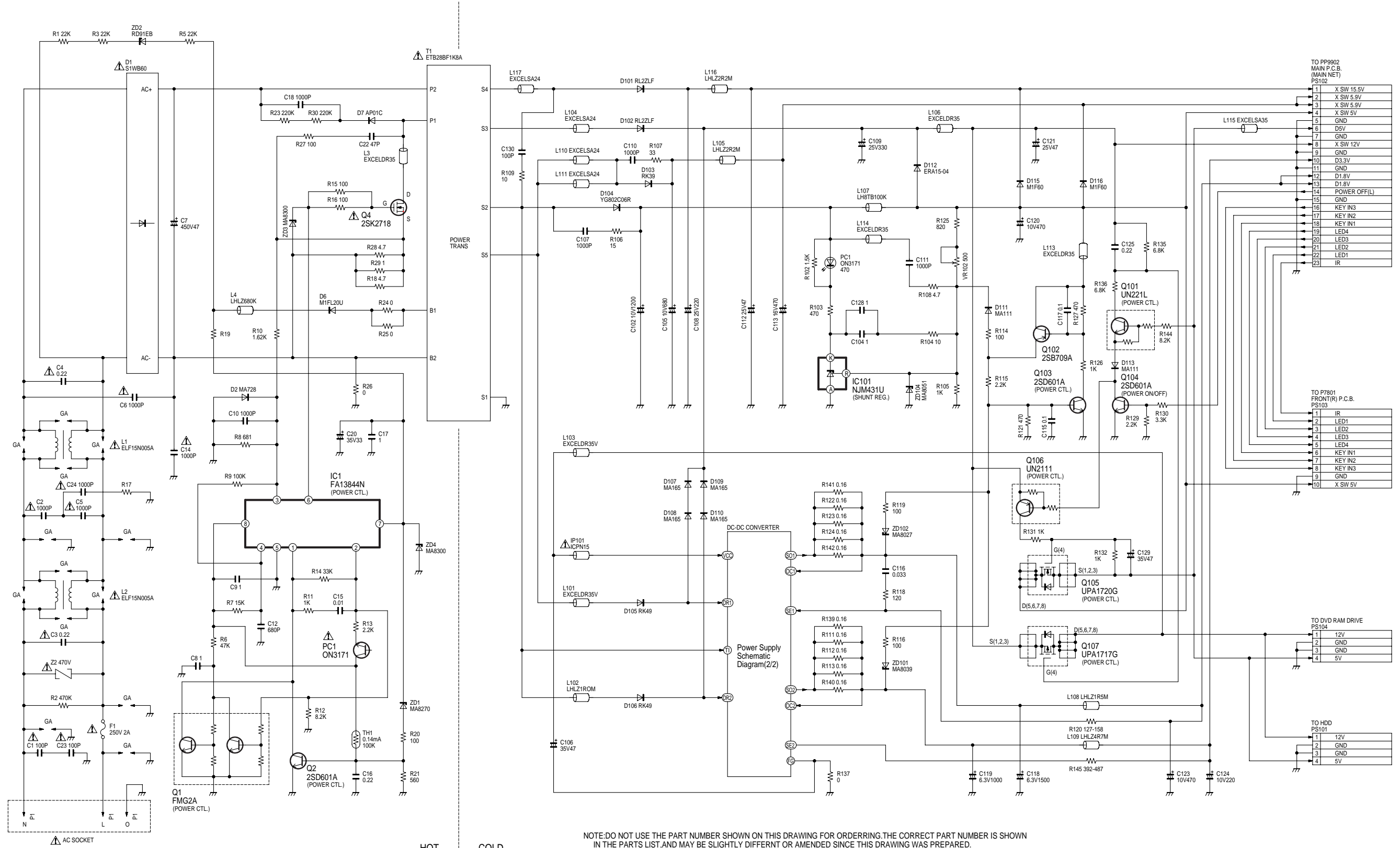
POWER SUPPLY P.C.B.			
Transistor			
Q101	A-4	Q1	B-5
Q104	A-4	Q2	B-5
Q105	B-3	Q4	C-5
Q107	B-4	Q102	B-4
Q301	C-2	Q103	B-4
Q302	C-2	Q106	B-4
Q303	C-2	Integrated Circuits	
Q304	C-2	IC1	B-5
Q305	C-2	IC101	B-4
Q306	C-2	IC301	D-2
Q307	C-2	IC302	B-1
Q308	C-2	Connections	
Q309	D-2	P1	C-7
Q310	B-2	PS102	A-3
Q311	C-2	PS103	C-1
Q312	C-2	PS104	B-1

ADDRESS INFORMATION

POWER SUPPLY P.C.B.



G
F
E
D
C
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A



TO PP902
MAIN P.C.B.
(MAIN NET)
PS102

1	X SW 15.5V
2	X SW 5.9V
3	X SW 5.9V
4	X SW 5V
5	GND
6	D5V
7	GND
8	X SW 12V
9	GND
10	D3.3V
11	GND
12	D1.8V
13	D1.8V
14	POWER OFF(L)
15	GND
16	KEY IN3
17	KEY IN2
18	KEY IN1
19	LED4
20	LED3
21	LED2
22	LED1
23	IR

TO P7801
FRONT(R) P.C.B.
PS103

1	IR
2	LED1
3	LED2
4	LED3
5	LED4
6	KEY IN1
7	KEY IN2
8	KEY IN3
9	GND
10	X SW 5V

TO DVD RAM DRIVE
PS104

1	12V
2	GND
3	GND
4	5V

TO HDD
PS101

1	12V
2	GND
3	GND
4	5V

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS,ONLY THE SAME TYPE.

DMR-HS2EB/EB1/EG/EG1/GN
Power Supply Schematic Diagram
(Power Supply P.C.B.(1/2))

1 2 3 4 5 6 7 8 9 10 11

F

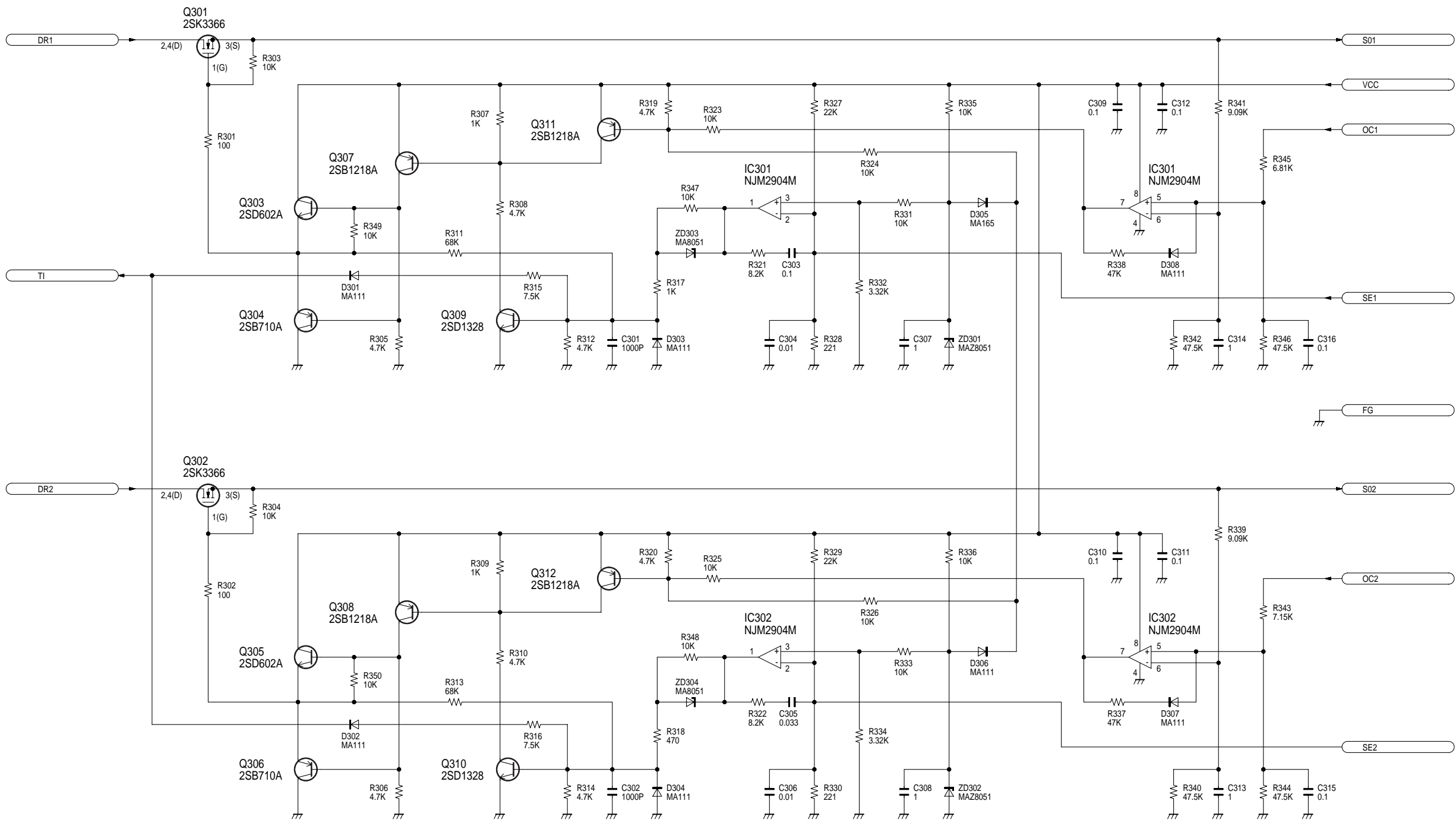
E

D

C

B

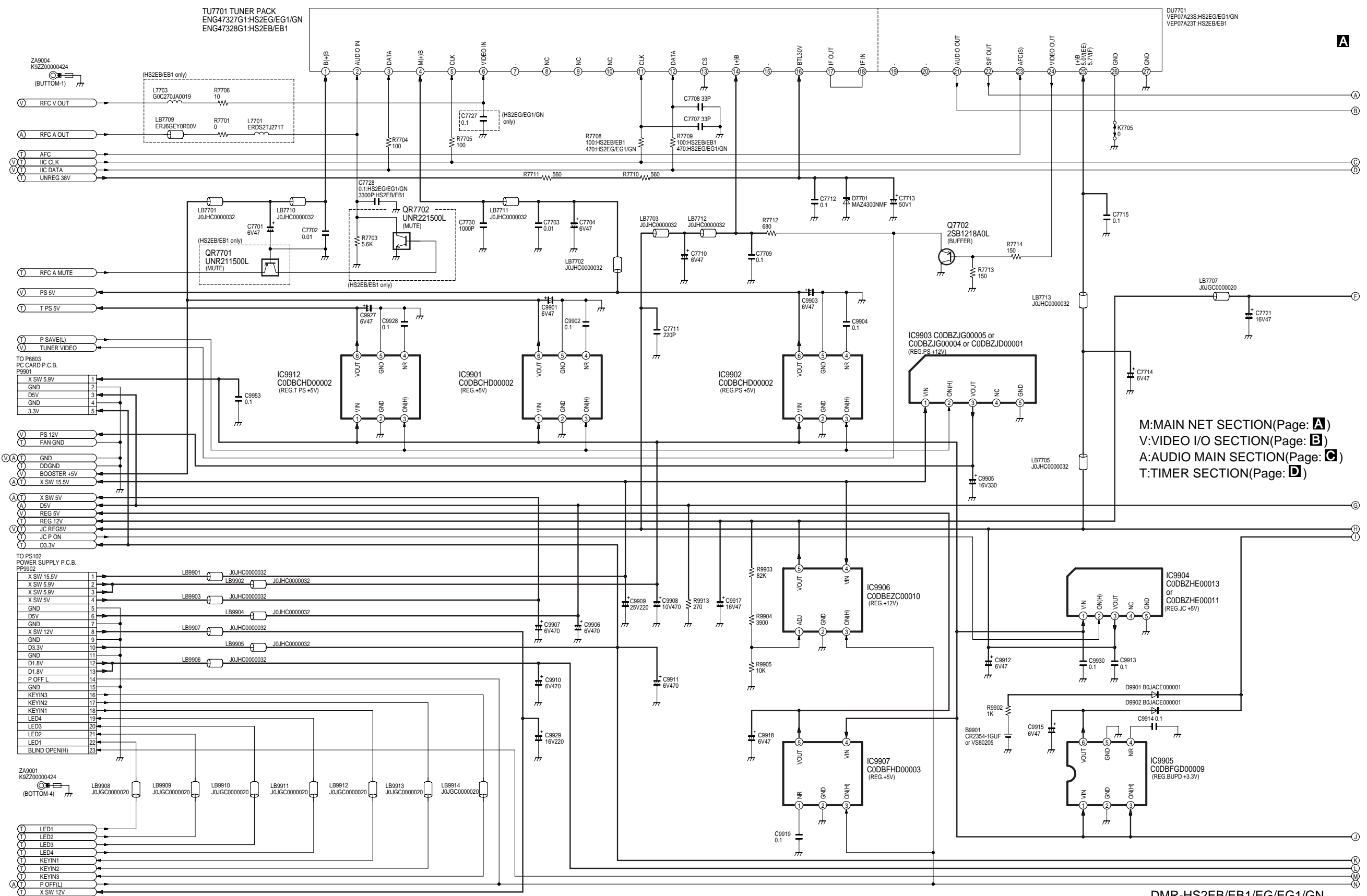
A



NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

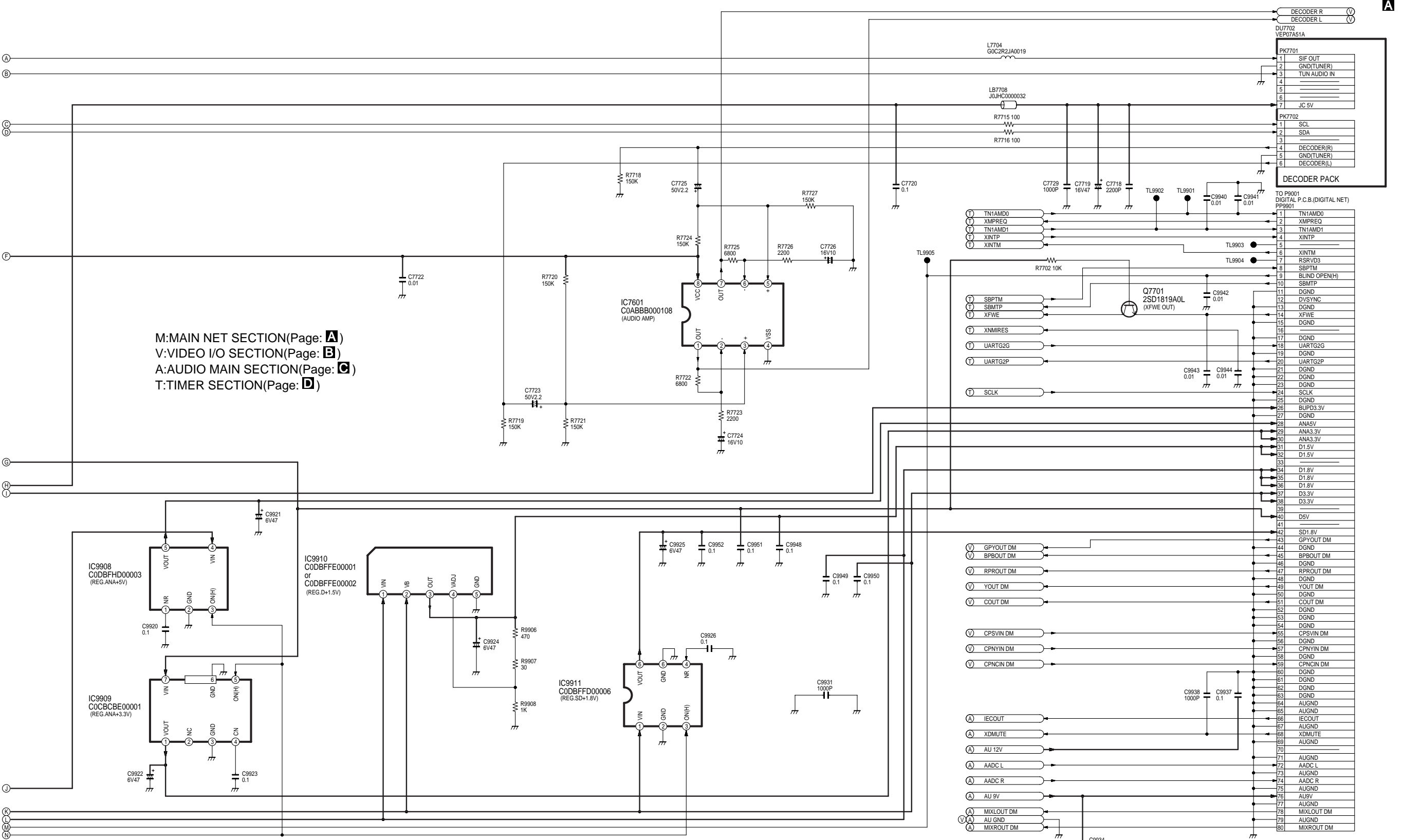
DMR-HS2EB/EB1/EG/EG1/GN
Power Supply Schematic Diagram
(Power Supply P.C.B.(2/2))

1 2 3 4 5 6 7 8 9



M:MAIN NET SECTION(Page: **A**)
V:VIDEO I/O SECTION(Page: **B**)
A:AUDIO MAIN SECTION(Page: **C**)
T:TIMER SECTION(Page: **D**)

DMR-HS2EB/EB1/EG/EG1/GN
Main Net Section(Main P.C.B.(1/4))
Schematic Diagram(M)




M:MAIN NET SECTION(Page: **A**)
V:VIDEO I/O SECTION(Page: **B**)
A:AUDIO MAIN SECTION(Page: **C**)
T:TIMER SECTION(Page: **D**)

DMR-HS2EB/EB1/EG/EG1/GN
Main Net Section(Main P.C.B.(1/4))
Schematic Diagram(M)

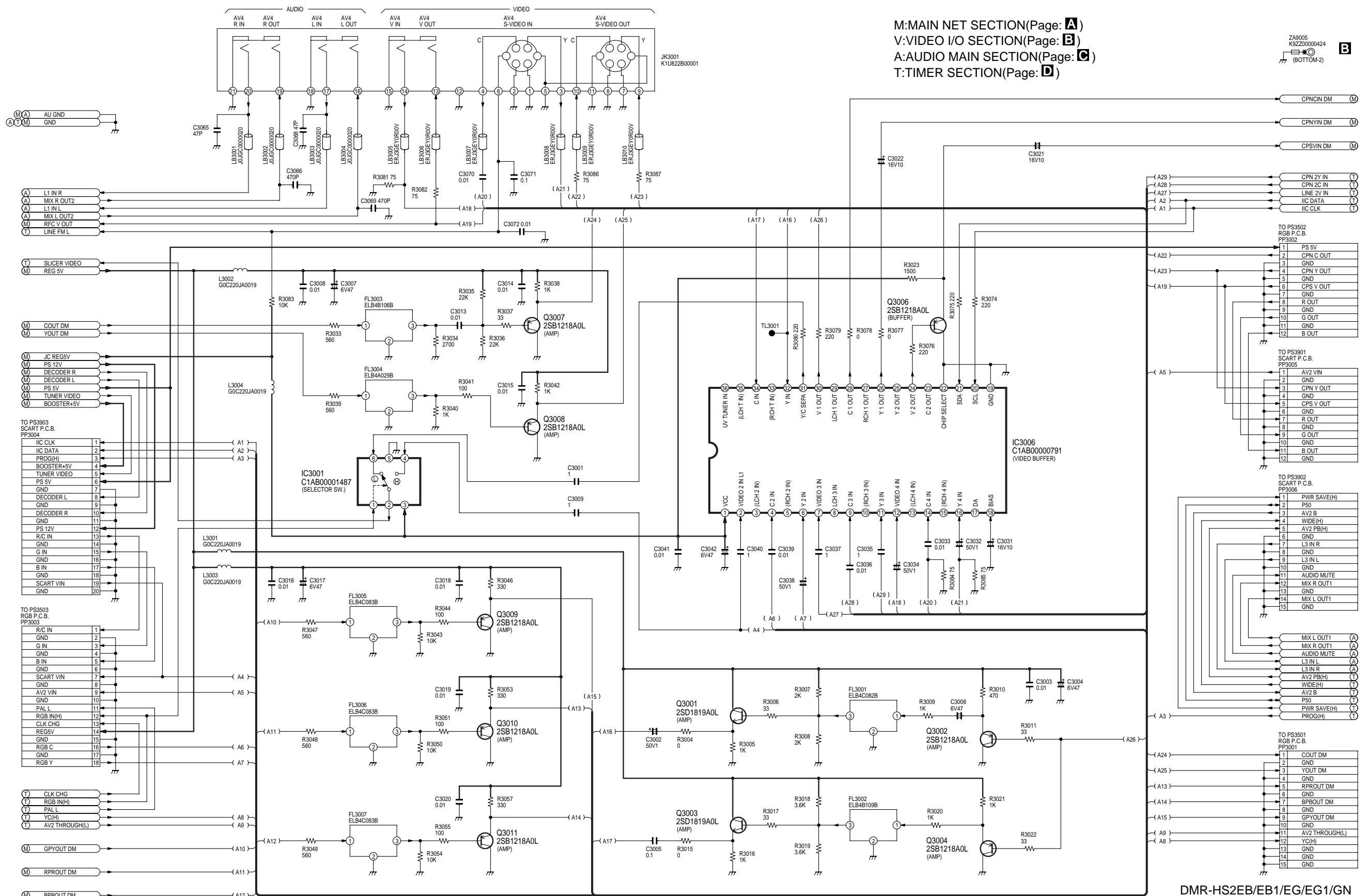
DMR-HS2EB/EB1/EG/EG1/GN
Main Net Section(Main P.C.B.(1/4))
Schematic Diagram(M)

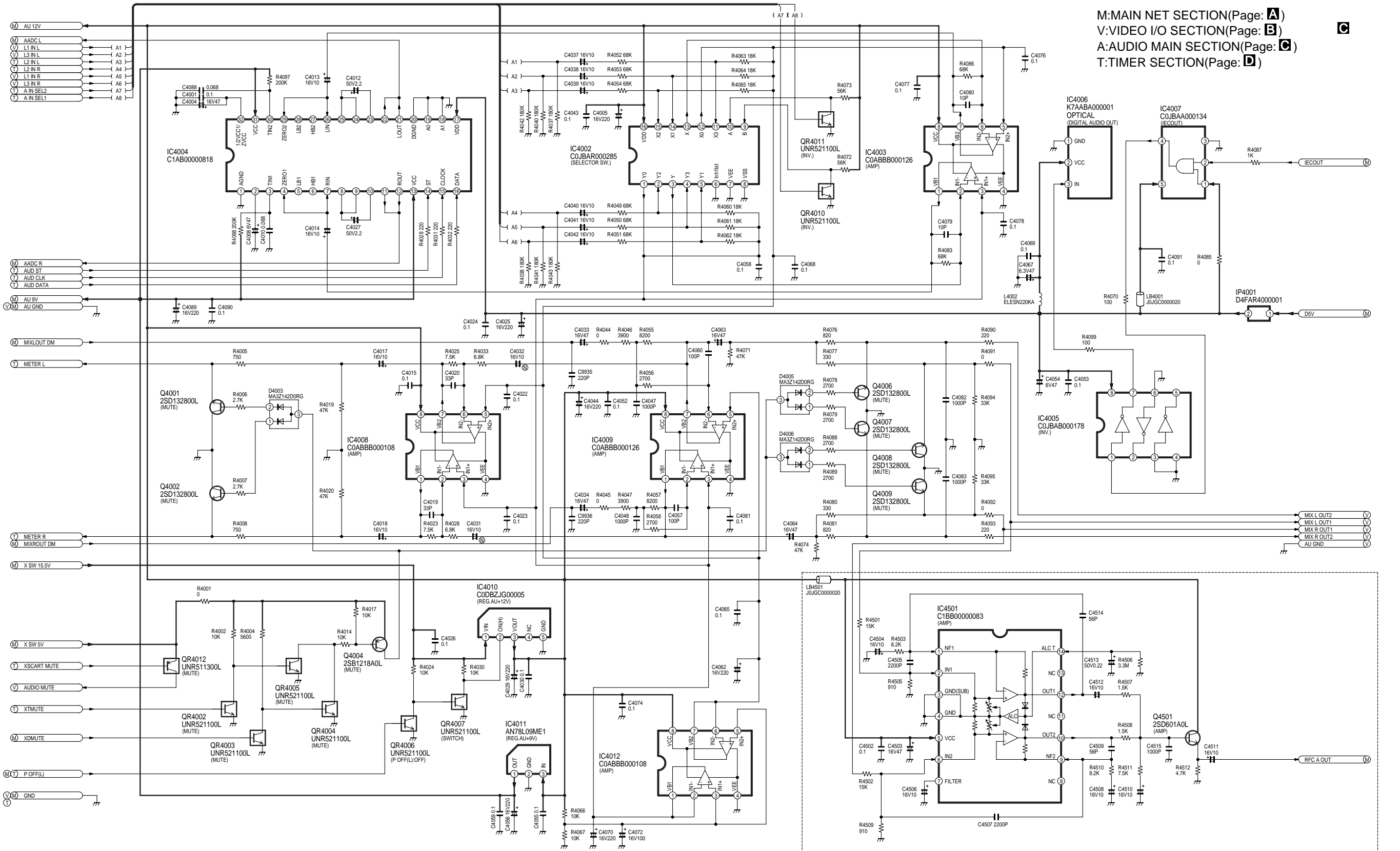
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

M:MAIN NET SECTION(Page: **A**)
 V:VIDEO I/O SECTION(Page: **B**)
 A:AUDIO MAIN SECTION(Page: **C**)
 T:TIMER SECTION(Page: **D**)

ZA9005
 K92Z0000424

 (BOTTOM-2) **B**

G
F
E
D
C
B
A

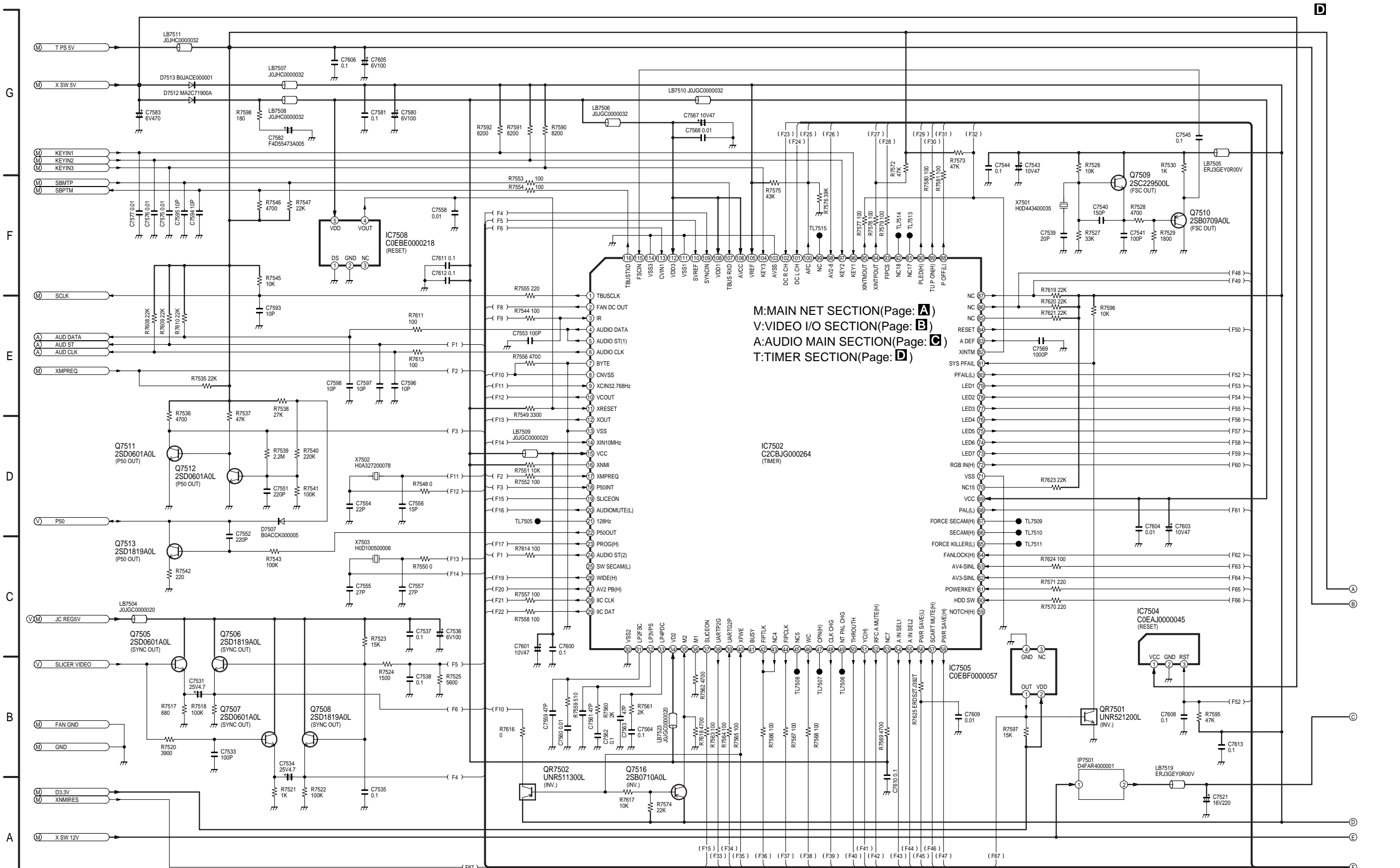




M: MAIN NET SECTION (Page: **A**)
V: VIDEO I/O SECTION (Page: **B**)
A: AUDIO MAIN SECTION (Page: **C**)
T: TIMER SECTION (Page: **D**)

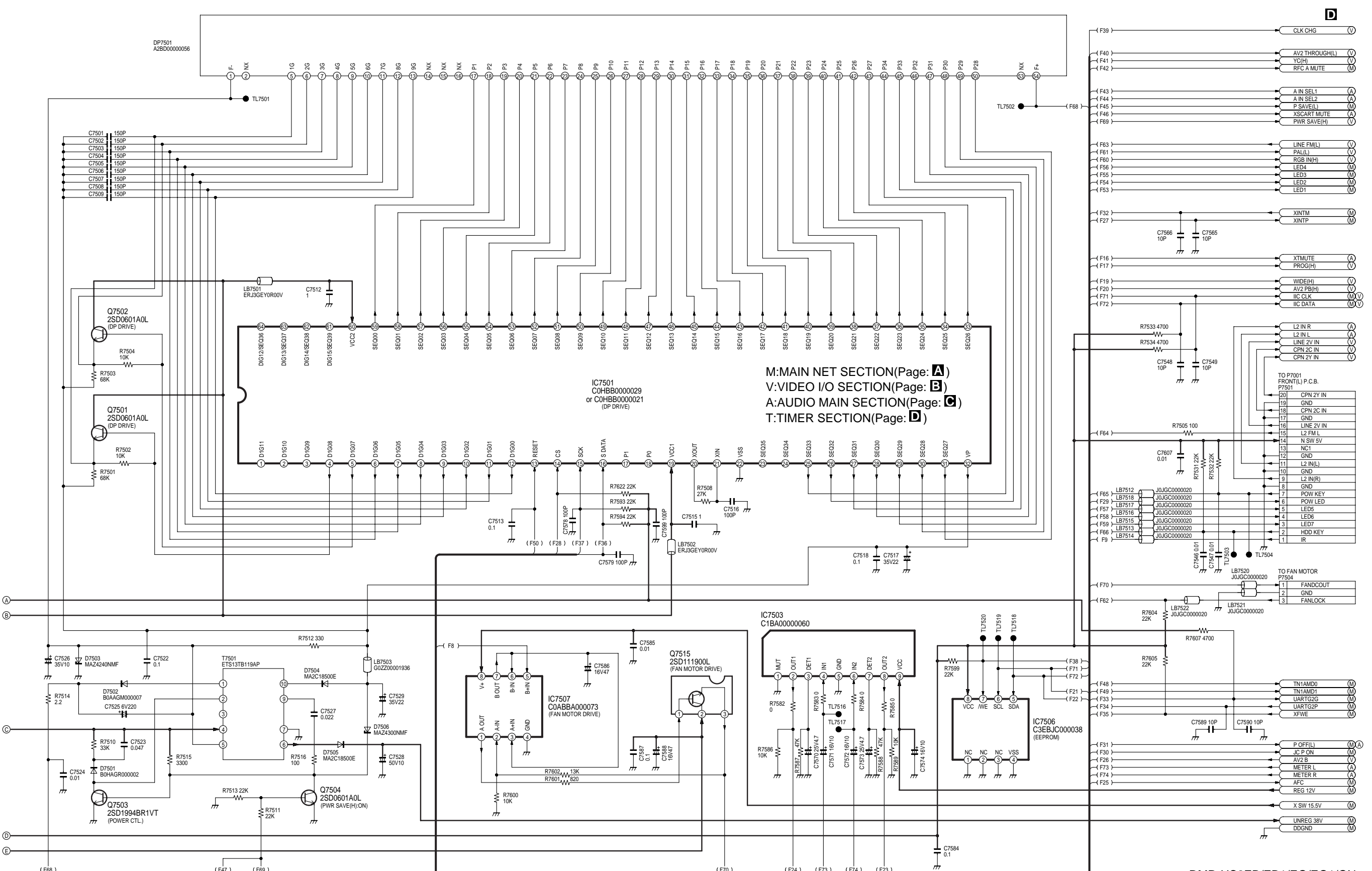
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-HS2EB/EB1/EG/EG1/GN
Audio Main Section (Main P.C.B. 3/4)
Schematic Diagram (A)



M:MAIN NET SECTION(Page: A)
V:VIDEO I/O SECTION(Page: B)
A:AUDIO MAIN SECTION(Page: C)
T:TIMER SECTION(Page: D)

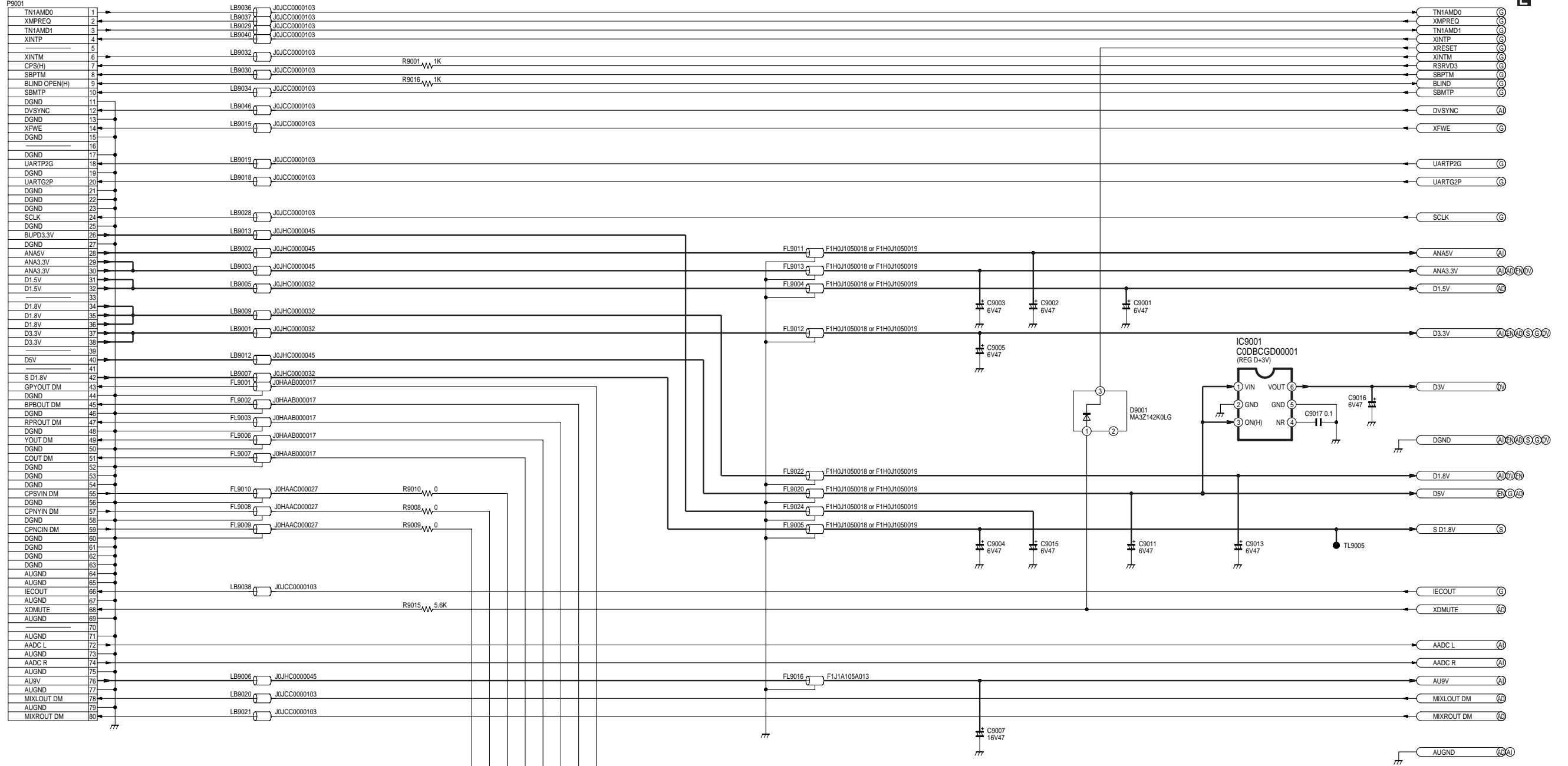
DMR-HS2EB/EB1/EG/EG1/GN
Timer Section(Main P.C.B.(4/4) Schematic Diagram(T)



DMR-HS2EB/EB1/EG/EG1/GN
Timer Section(Main P.C.B.(4/4)) Schematic Diagram(T)

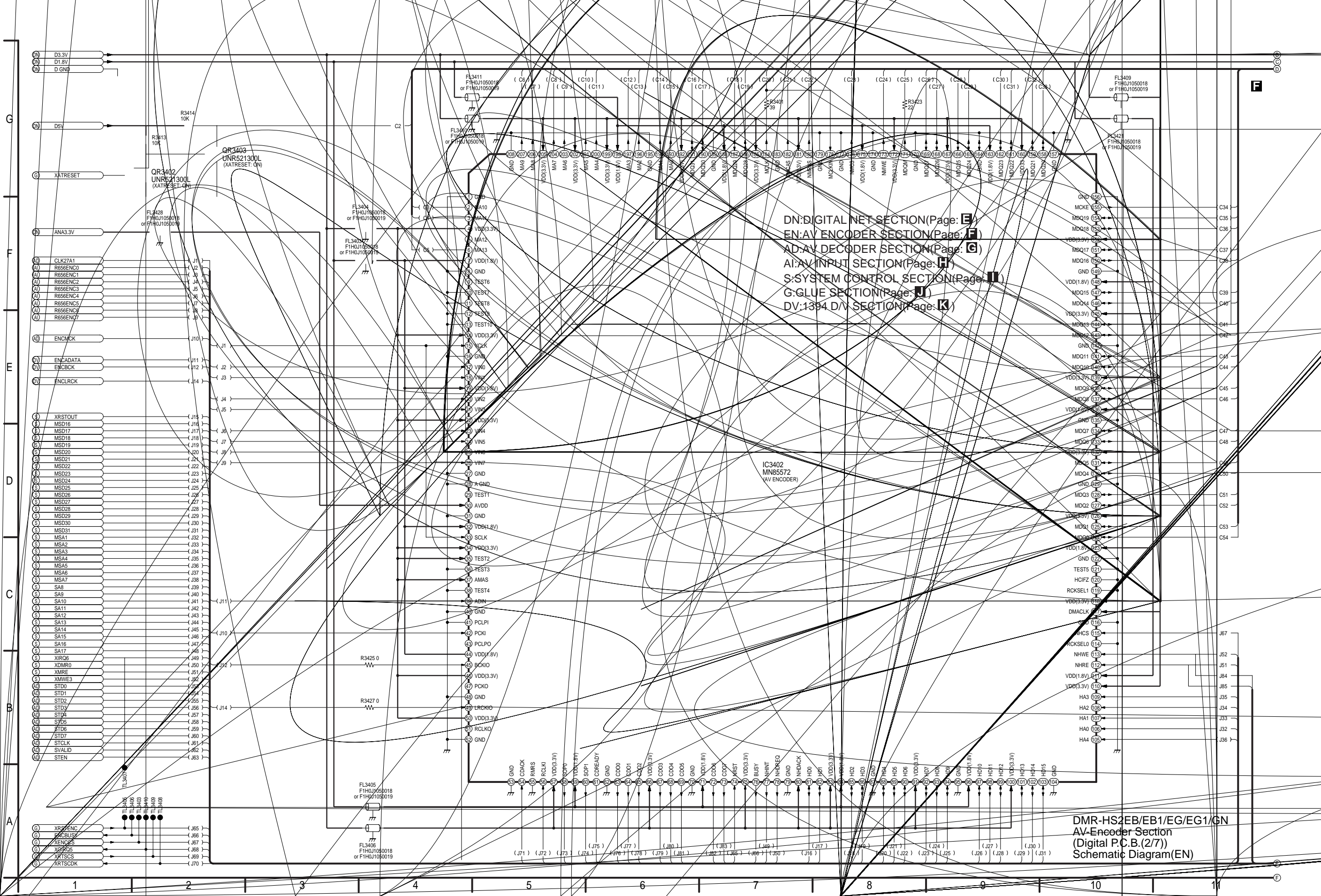
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-HS2EB/EB1/EG/EG1/GN
Timer Section(Main P.C.B.(4/4))
Schematic Diagram(T)



DN: DIGITAL NET SECTION (Page: **E**)
 EN: AV ENCODER SECTION (Page: **F**)
 AD: AV DECODER SECTION (Page: **G**)
 AI: AV INPUT SECTION (Page: **H**)
 S: SYSTEM CONTROL SECTION (Page: **I**)
 G: GLUE SECTION (Page: **J**)
 DV: 1394 D/V SECTION (Page: **K**)

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

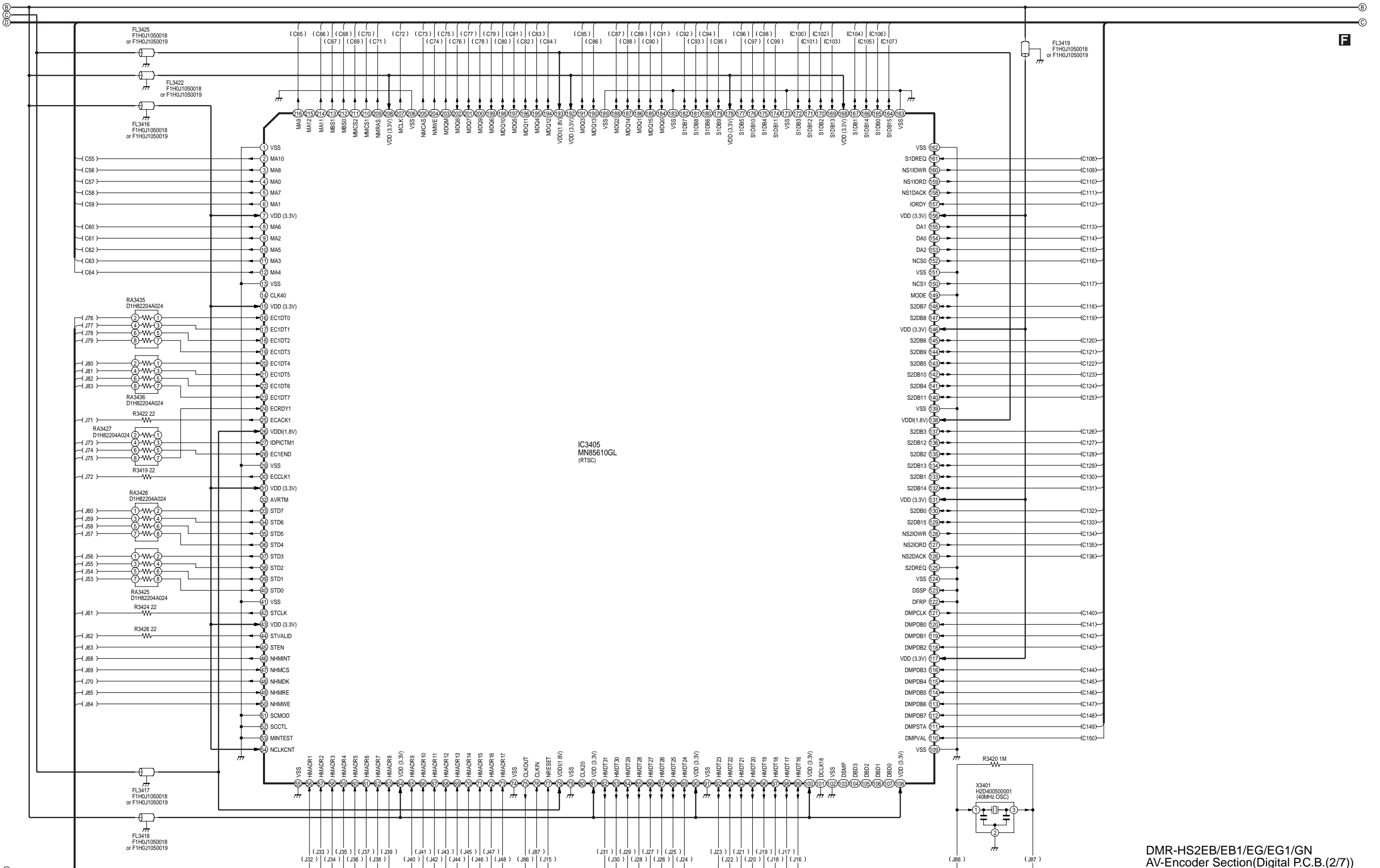


DN: DIGITAL NET SECTION (Page: **E**)
 EN: AV ENCODER SECTION (Page: **F**)
 AD: AV DECODER SECTION (Page: **G**)
 AI: AV INPUT SECTION (Page: **H**)
 S: SYSTEM CONTROL SECTION (Page: **I**)
 G: GLUE SECTION (Page: **J**)
 DV: 1394 D/V SECTION (Page: **K**)

IC3402
 MN85572
 (AV ENCODER)

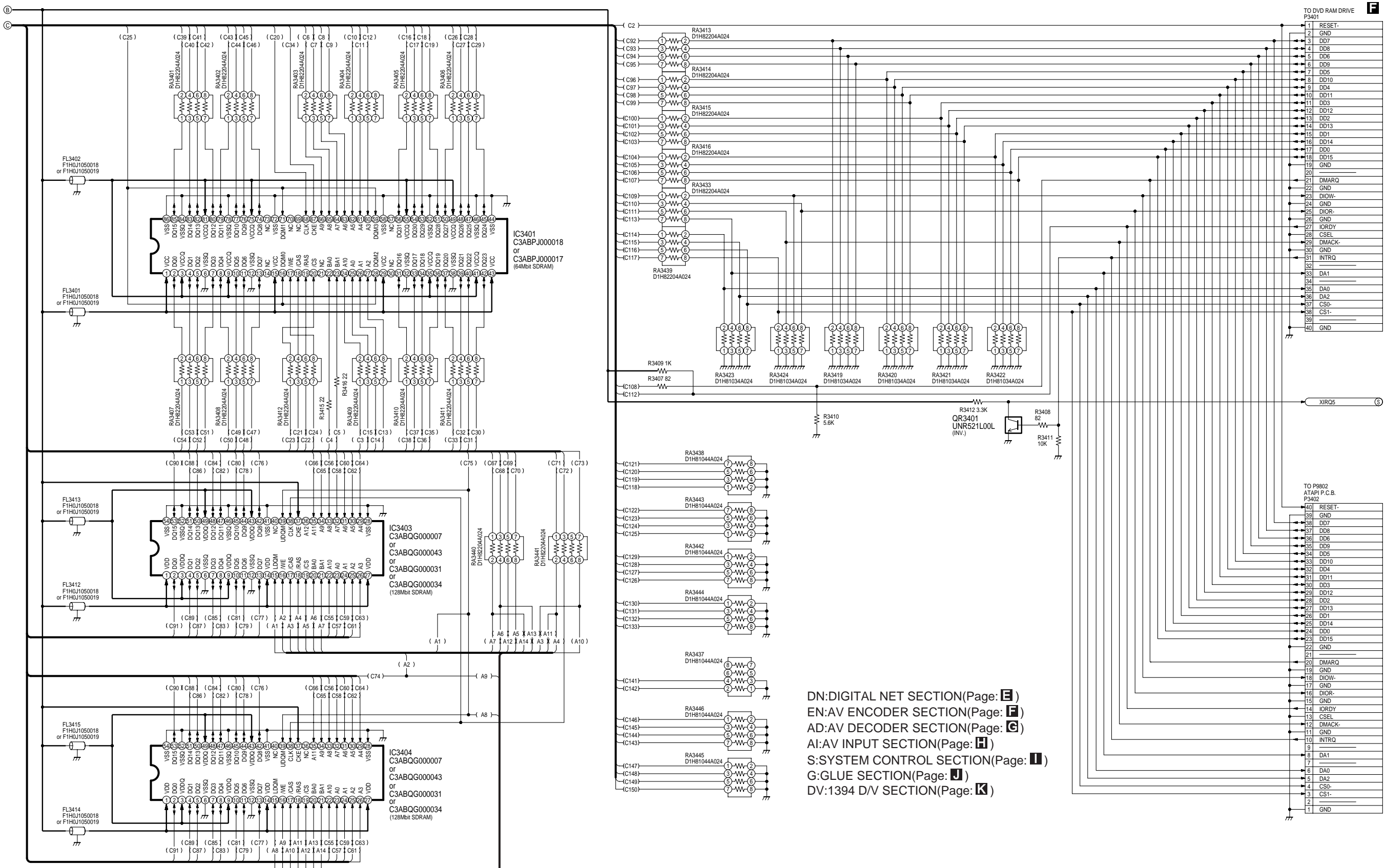
- (V) D3.3V
- (V) D1.8V
- (V) D GND
- (V) 5V
- (V) XATRESET
- (V) ANA3.3V
- (A) CLK27A1
- (A) R656ENC0
- (A) R656ENC1
- (A) R656ENC2
- (A) R656ENC3
- (A) R656ENC4
- (A) R656ENC5
- (A) R656ENC6
- (A) R656ENC7
- (V) ENCMCK
- (V) ENCADATA
- (V) ENCBCK
- (V) ENCLRCK
- (S) XRSTOUT
- (S) MSD16
- (S) MSD17
- (S) MSD18
- (S) MSD19
- (S) MSD20
- (S) MSD21
- (S) MSD22
- (S) MSD23
- (S) MSD24
- (S) MSD25
- (S) MSD26
- (S) MSD27
- (S) MSD28
- (S) MSD29
- (S) MSD30
- (S) MSD31
- (S) MSA1
- (S) MSA2
- (S) MSA3
- (S) MSA4
- (S) MSA5
- (S) MSA6
- (S) MSA7
- (S) SA8
- (S) SA9
- (S) SA10
- (S) SA11
- (S) SA12
- (S) SA13
- (S) SA14
- (S) SA15
- (S) SA16
- (S) SA17
- (S) XIRQ6
- (S) XDMR0
- (S) XMR0
- (S) XMIWE3
- (S) STD0
- (S) STD1
- (S) STD2
- (S) STD3
- (S) STD4
- (S) STD5
- (S) STD6
- (S) STD7
- (S) STCLK
- (S) SVALID
- (S) STEN
- (S) XRSTENC
- (S) XRCBUS
- (S) XENC25
- (S) XIRQ5
- (S) XRSTCS
- (S) XRSTCDK

DMR-HS2EB/EB1/EG/EG1/GN
 AV-Encoder Section
 (Digital P.C.B. 2/7)
 Schematic Diagram (EN)



DMR-HS2EB/EB1/EG/EG1/GN AV-Encoder Section(Digital P.C.B.(2/7)) Schematic Diagram(EN)

DMR-HS2EB/EB1/EG/EG1/GN
AV-Encoder Section(Digital P.C.B.(2/7))
Schematic Diagram(EN)

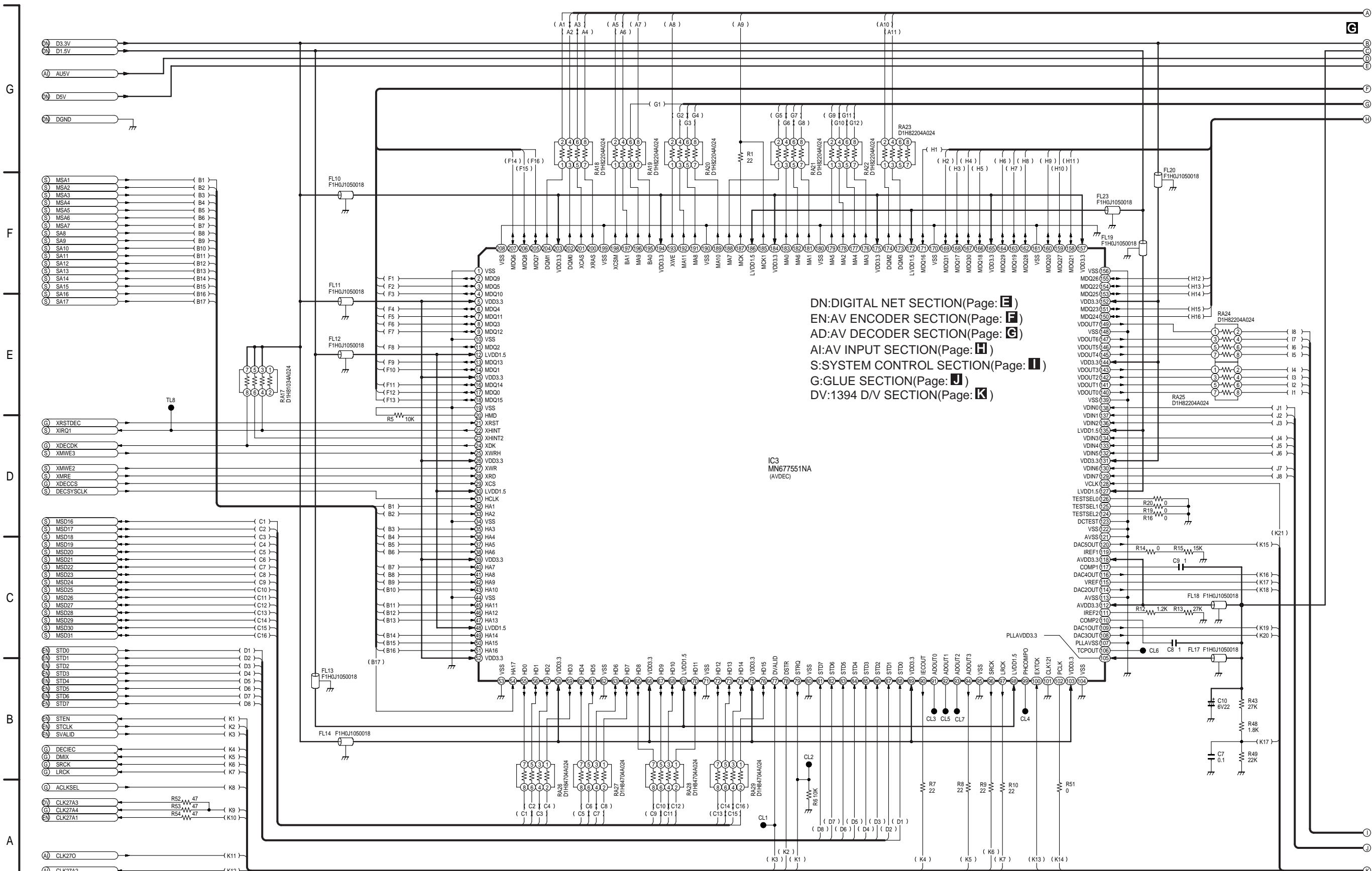


DMR-HS2EB/EB1/EG/EG1/GN
AV-Encoder Section(Digital P.C.B.(2/7)) Schematic Diagram(EN)

DN: DIGITAL NET SECTION (Page: **E**)
 EN: AV ENCODER SECTION (Page: **F**)
 AD: AV DECODER SECTION (Page: **C**)
 AI: AV INPUT SECTION (Page: **H**)
 S: SYSTEM CONTROL SECTION (Page: **I**)
 G: GLUE SECTION (Page: **J**)
 DV: 1394 D/V SECTION (Page: **K**)

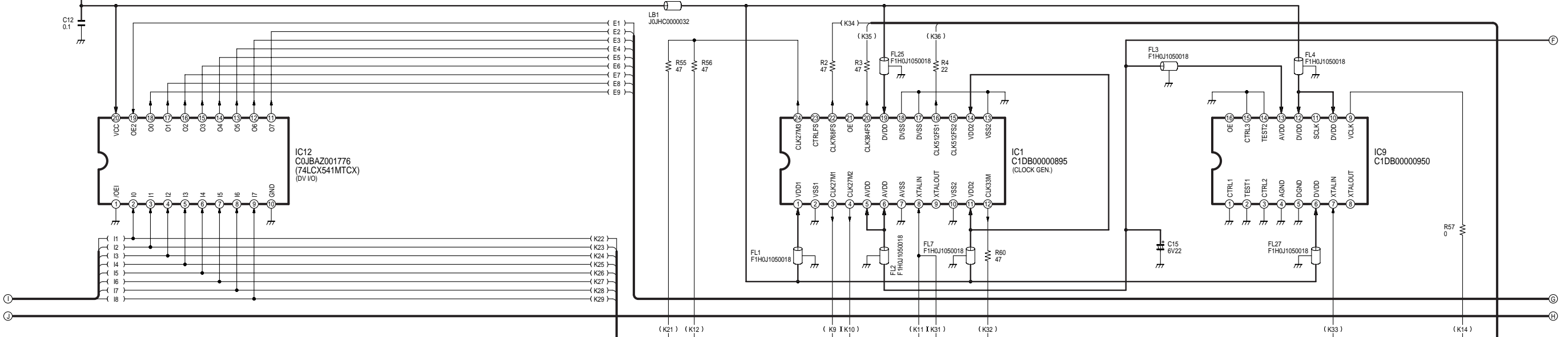
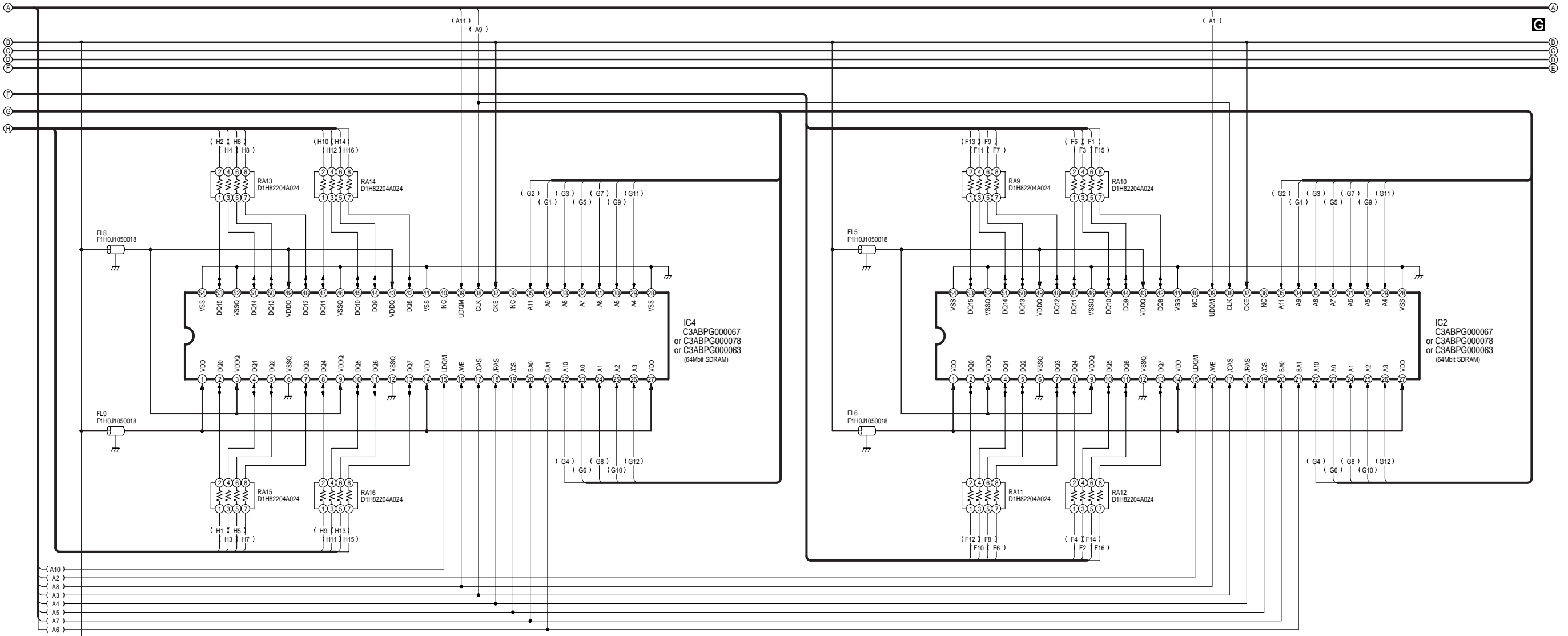
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON
THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER
TO PARTS LIST.

DMR-HS2EB/EB1/EG/EG1/GN
AV-Encoder Section(Digital P.C.B.(2/7))
Schematic Diagram(EN)



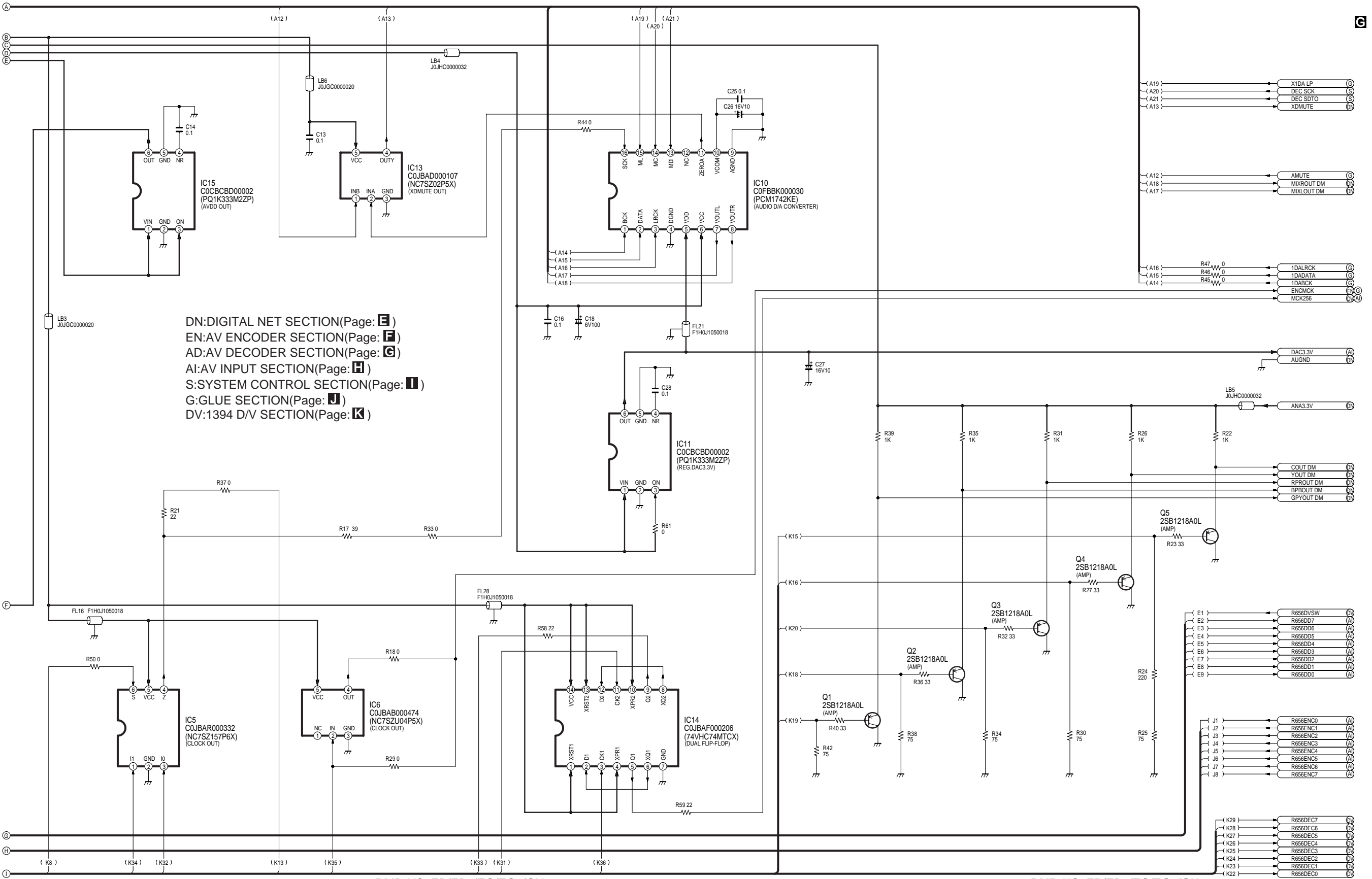
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 AD: AV DECODER SECTION (Page: **G**)
 AI: AV INPUT SECTION (Page: **H**)
 S: SYSTEM CONTROL SECTION (Page: **I**)
 G: GLUE SECTION (Page: **J**)
 DV: 1394 D/V SECTION (Page: **K**)

DMR-HS2EB/EB1/EG/EG1/GN
 AV-Decoder Section (Digital P.C.B.(3/7)) Schematic Diagram (AD)



DMR-HS2EB/EB1/EG/EG1/GN
AV-Decoder Section(Digital P.C.B.(3/7)) Schematic Diagram(AD)

DMR-HS2EB/EB1/EG/EG1/GN
AV-Decoder Section(Digital P.C.B.(3/7)) Schematic Diagram(AD)

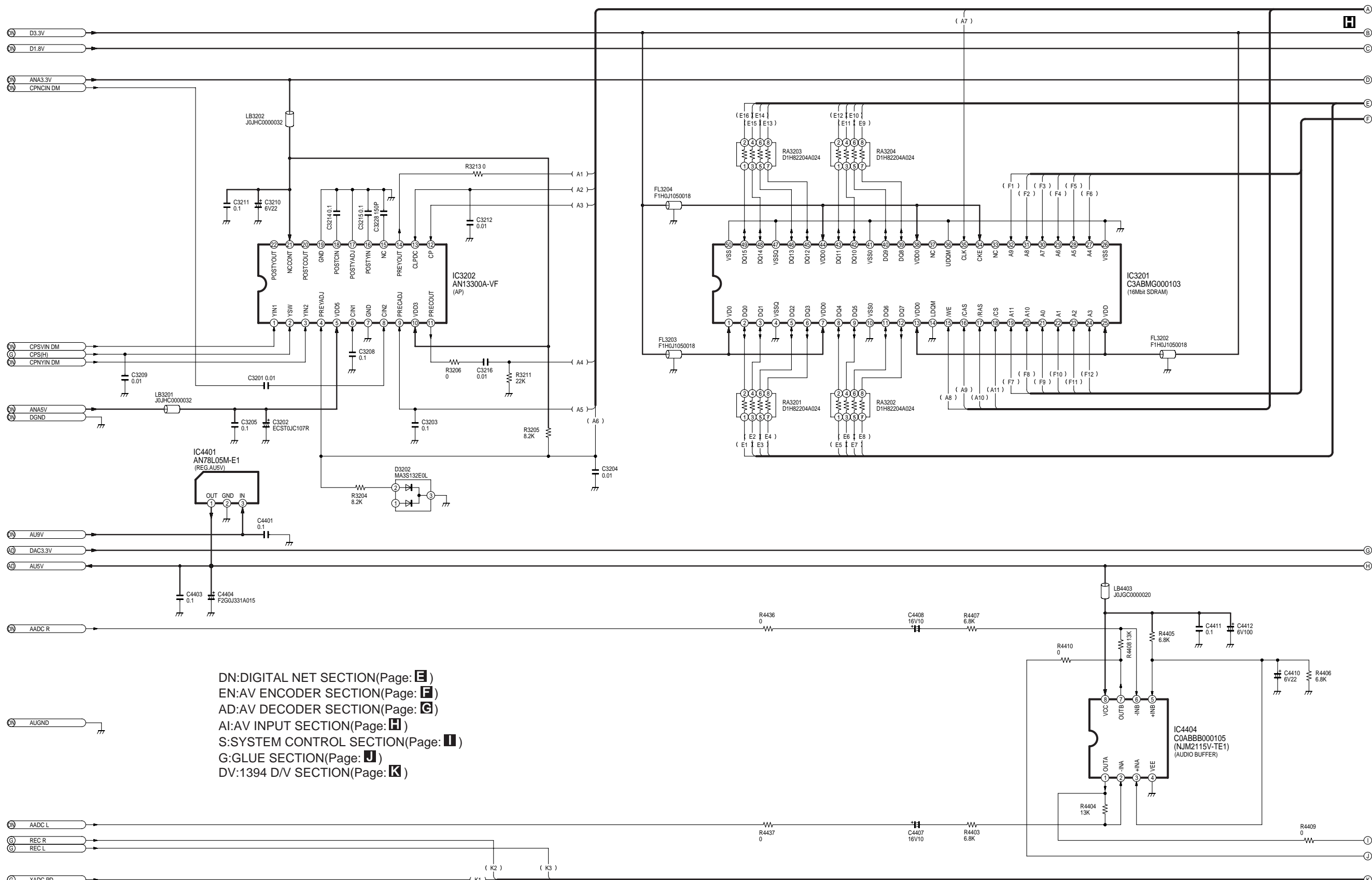


DN: DIGITAL NET SECTION (Page: **E**)
 EN: AV ENCODER SECTION (Page: **F**)
 AD: AV DECODER SECTION (Page: **G**)
 AI: AV INPUT SECTION (Page: **H**)
 S: SYSTEM CONTROL SECTION (Page: **I**)
 G: GLUE SECTION (Page: **J**)
 DV: 1394 D/V SECTION (Page: **K**)

DMR-HS2EB/EB1/EG/EG1/GN
AV-Decoder Section(Digital P.C.B.(3/7)) Schematic Diagram(AD)

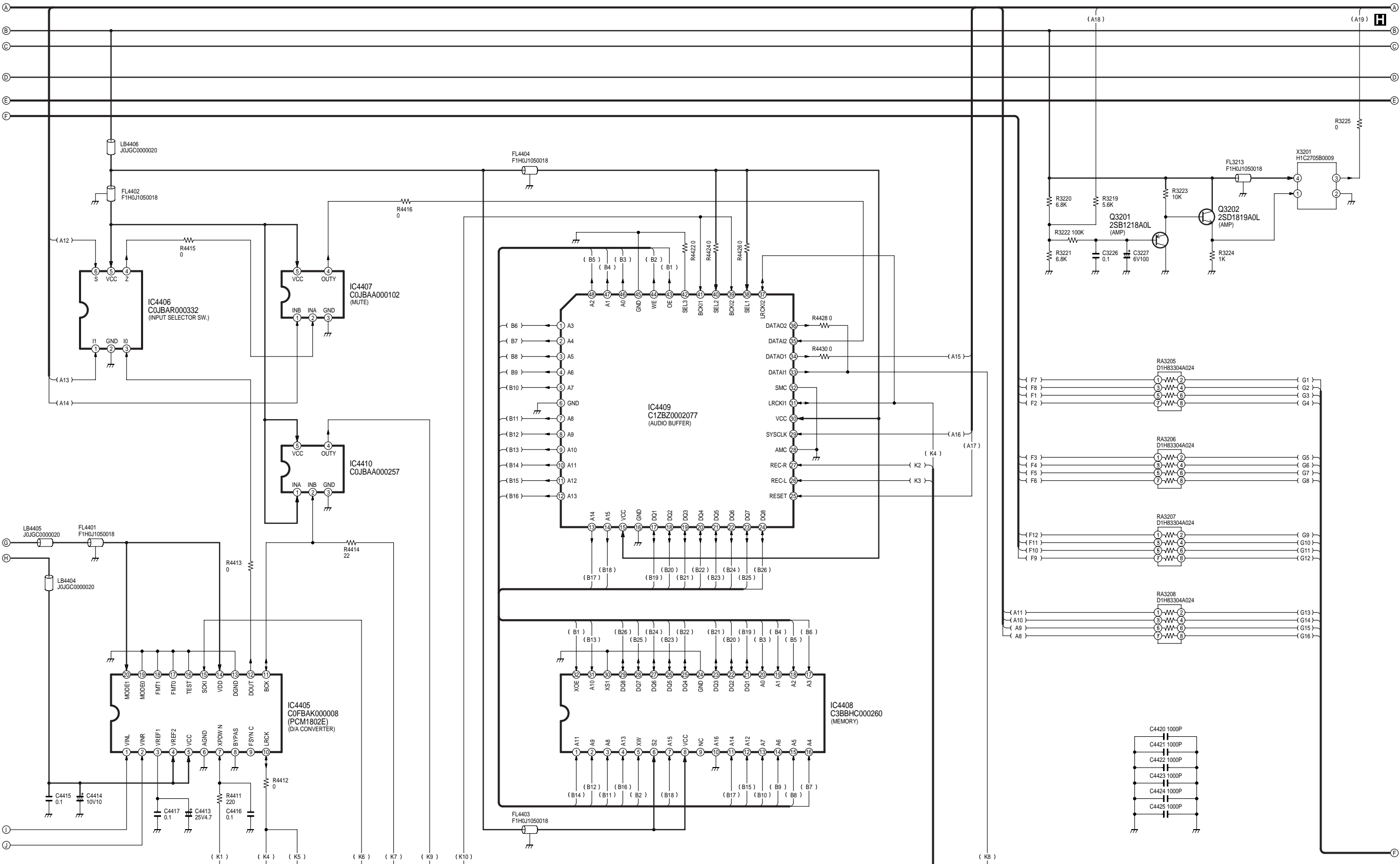
REF NO. 50000 SERIES

DMR-HS2EB/EB1/EG/EG1/GN
AV-Decoder Section(Digital P.C.B.(3/7)) Schematic Diagram(AD)



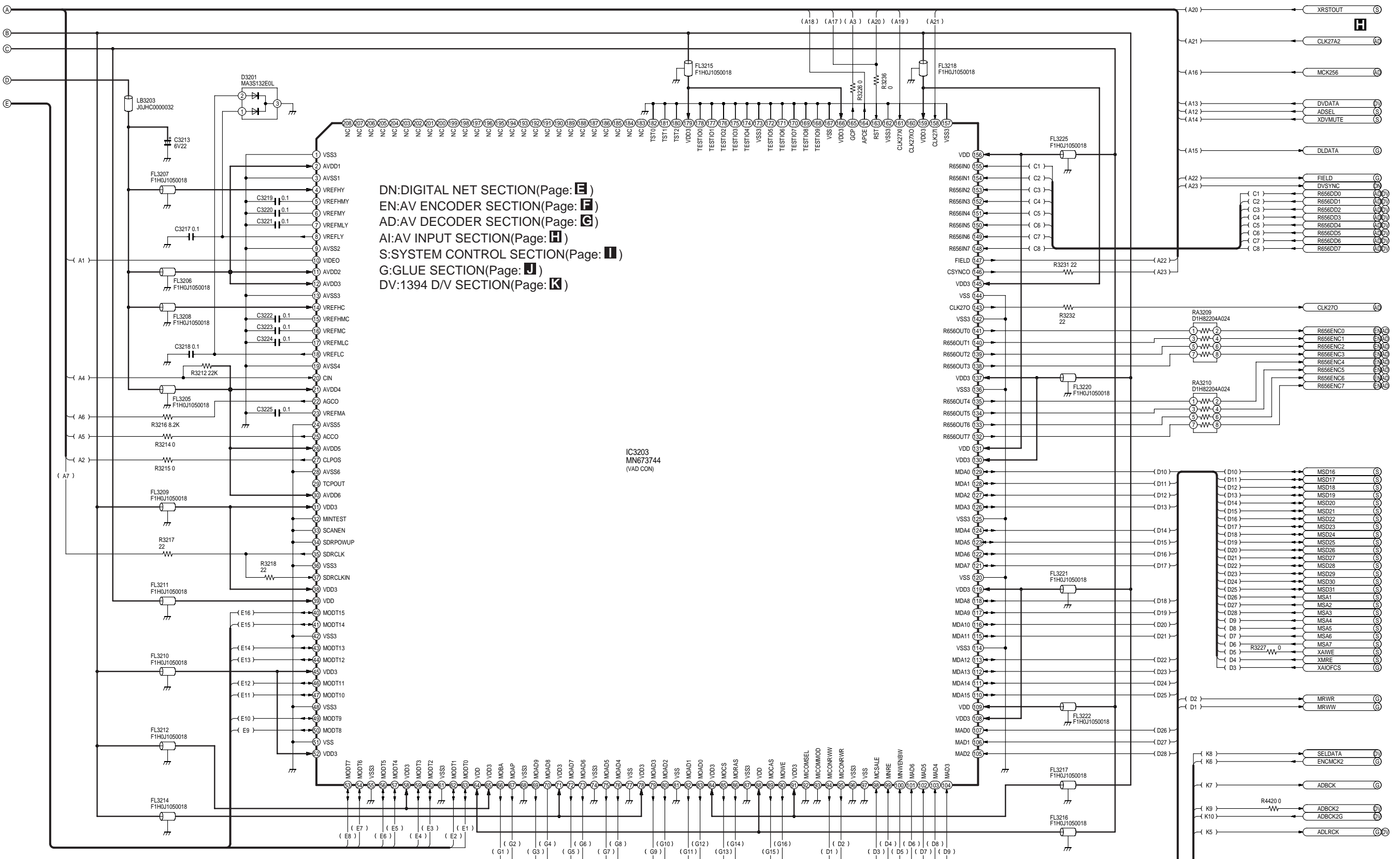
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 EN: AV ENCODER SECTION (Page: **F**)
 AD: AV DECODER SECTION (Page: **G**)
 AI: AV INPUT SECTION (Page: **H**)
 S: SYSTEM CONTROL SECTION (Page: **I**)
 G: GLUE SECTION (Page: **J**)
 DV: 1394 D/V SECTION (Page: **K**)

DMR-HS2EB/EB1/EG/EG1/GN
 AV-Input Section (Digital P.C.B.(4/7)) Schematic Diagram (AI)



DMR-HS2EB/EB1/EG/EG1/GN
AV-Input Section(Digital P.C.B.(4/7)) Schematic Diagram(AI)

DMR-HS2EB/EB1/EG/EG1/GN
AV-Input Section(Digital P.C.B.(4/7)) Schematic Diagram(AI)



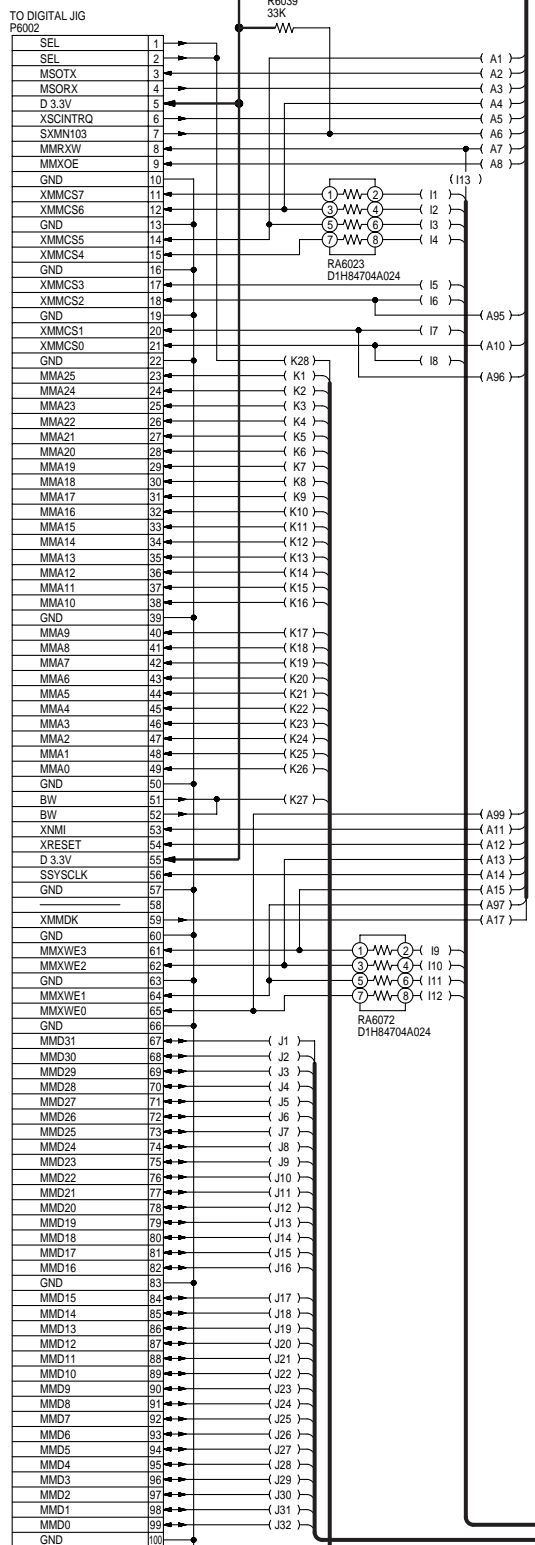
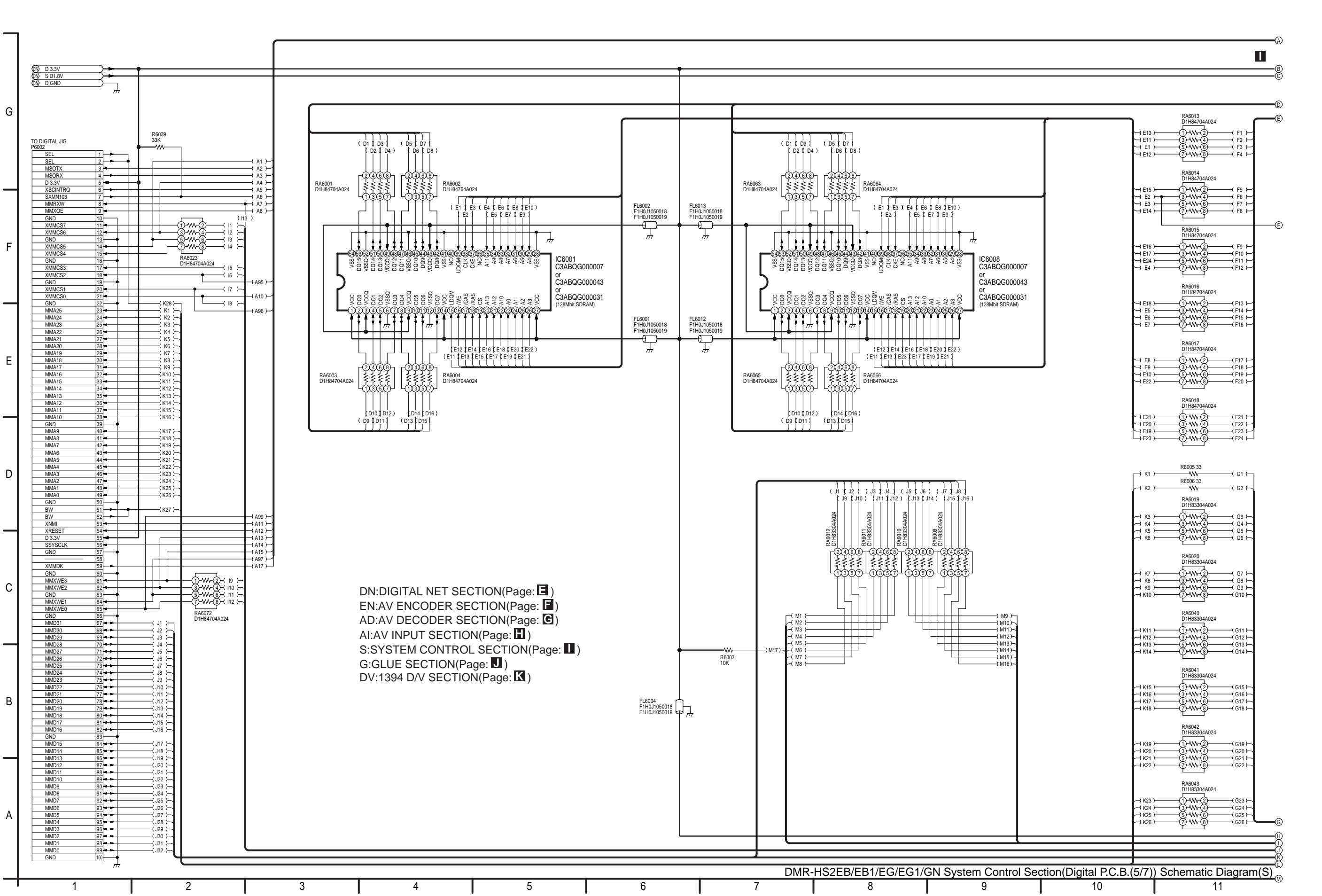
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 EN: AV ENCODER SECTION (Page: F)
 AD: AV DECODER SECTION (Page: G)
 AI: AV INPUT SECTION (Page: H)
 S: SYSTEM CONTROL SECTION (Page: I)
 G: GLUE SECTION (Page: J)
 DV: 1394 D/V SECTION (Page: K)

IC3203
 MN673744
 (VAD CON)

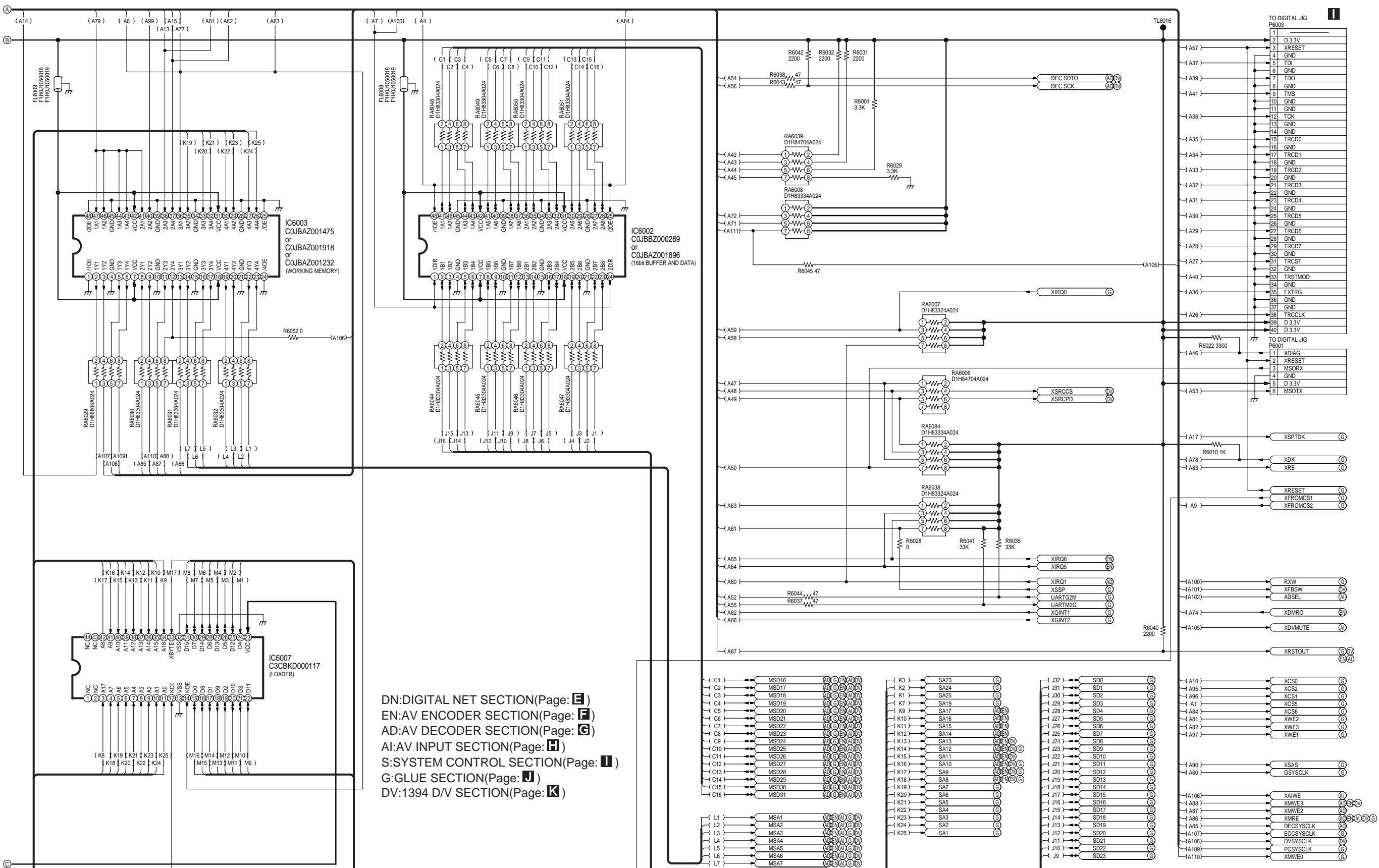
DMR-HS2EB/EB1/EG/EG1/GN
 AV-Input Section (Digital P.C.B. (4/7)) Schematic Diagram (AI)

NOTE:
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DMR-HS2EB/EB1/EG/EG1/GN
 AV-Input Section (Digital P.C.B. (4/7))
 Schematic Diagram (AI)



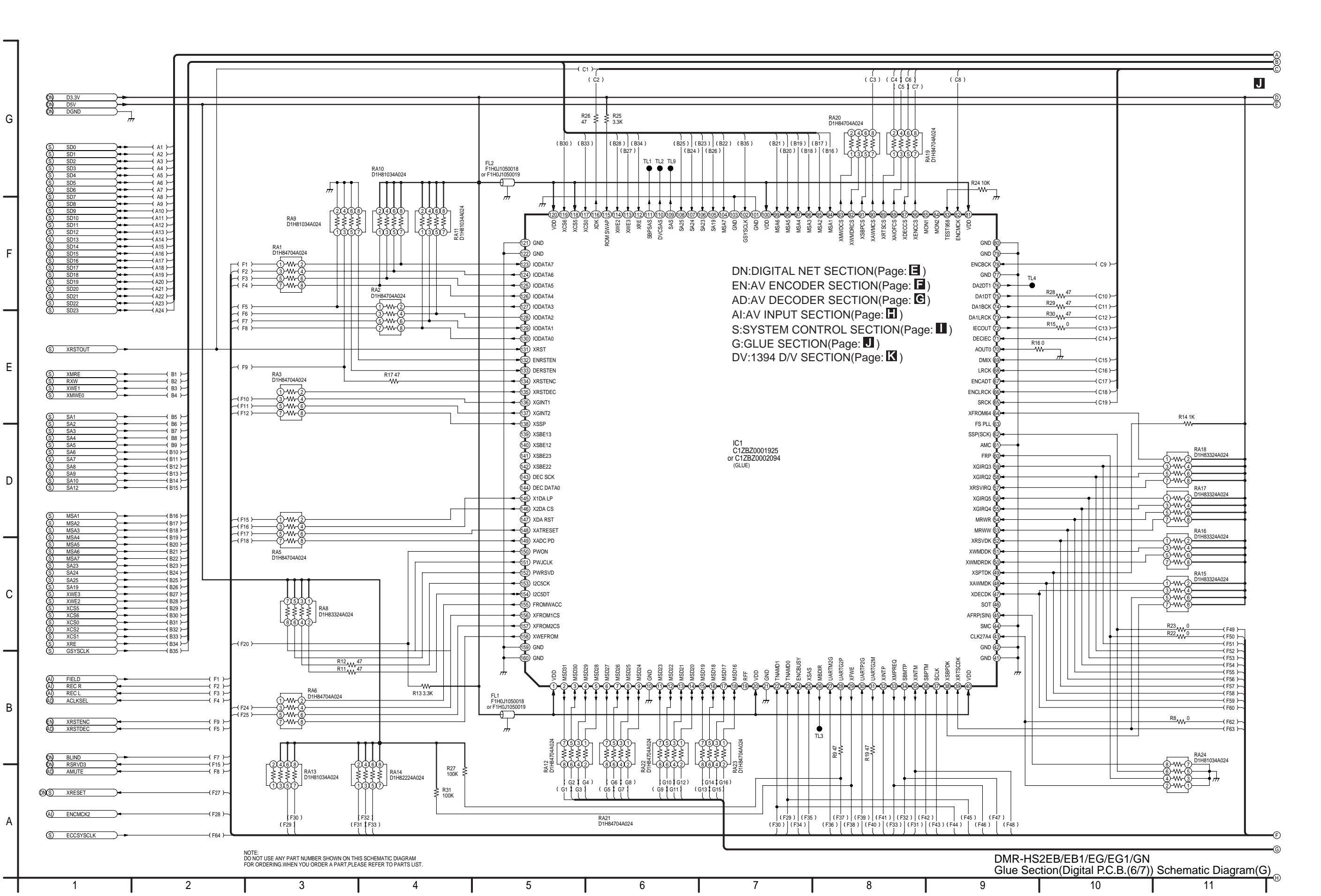
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 S: SYSTEM CONTROL SECTION (Page: **I**)
 G: GLUE SECTION (Page: **J**)
 DV: 1394 D/V SECTION (Page: **K**)



DN: DIGITAL NET SECTION (Page: **E**)
 EN: AV ENCODER SECTION (Page: **F**)
 AD: AV DECODER SECTION (Page: **G**)
 AI: AV INPUT SECTION (Page: **H**)
 S: SYSTEM CONTROL SECTION (Page: **I**)
 G: GLUE SECTION (Page: **J**)
 DV: 1394 D/V SECTION (Page: **K**)

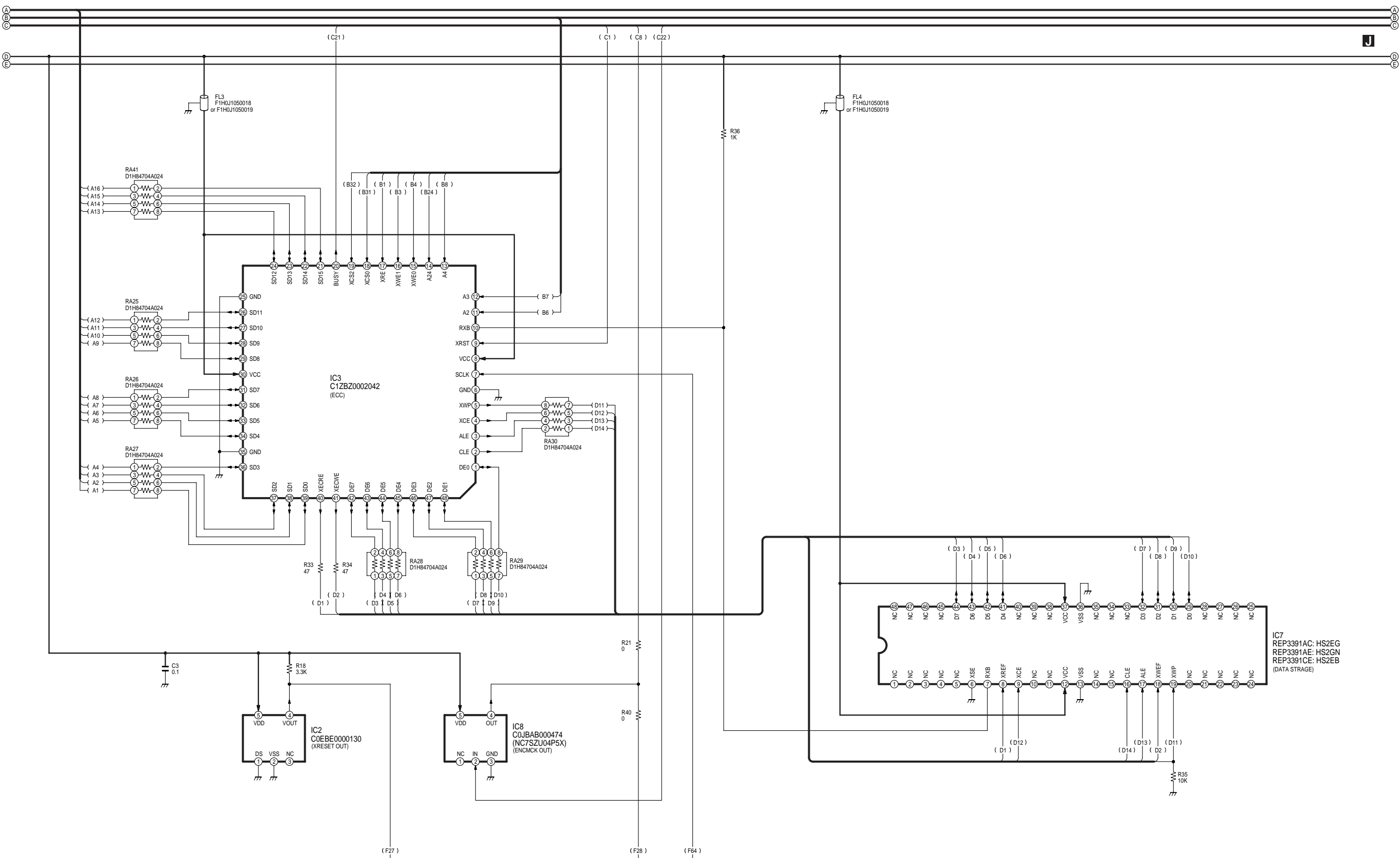
NOTE:
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FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

DMR-HS2EB/EB1/EG/EG1/GN
System Control Section (Digital P.C.B. (5/7))
Schematic Diagram (S)



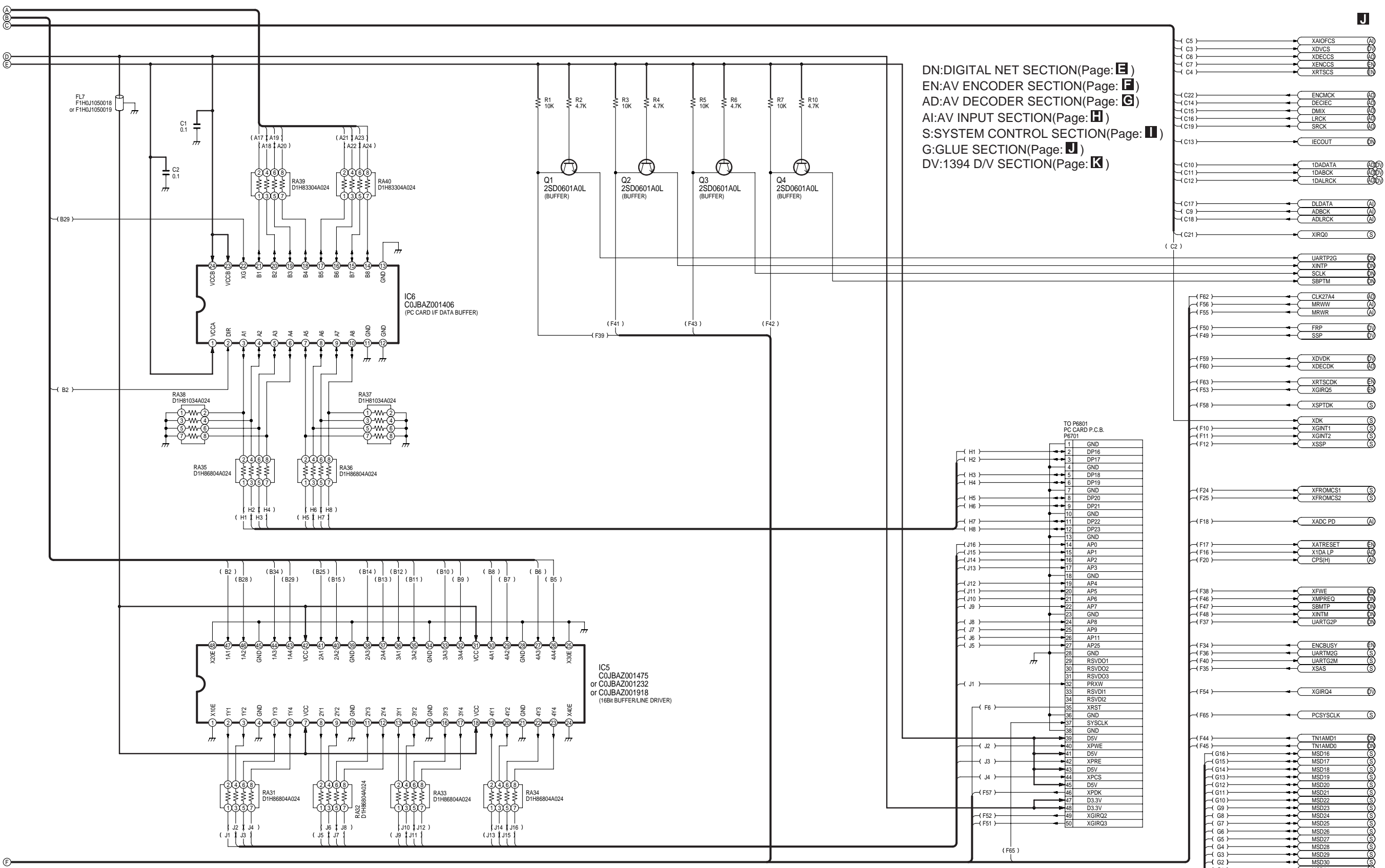
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

DMR-HS2EB/EB1/EG/EG1/GN
Glue Section(Digital P.C.B.(6/7)) Schematic Diagram(G)



DMR-HS2EB/EB1/EG/EG1/GN
Glue Section(Digital P.C.B.(6/7)) Schematic Diagram(G)

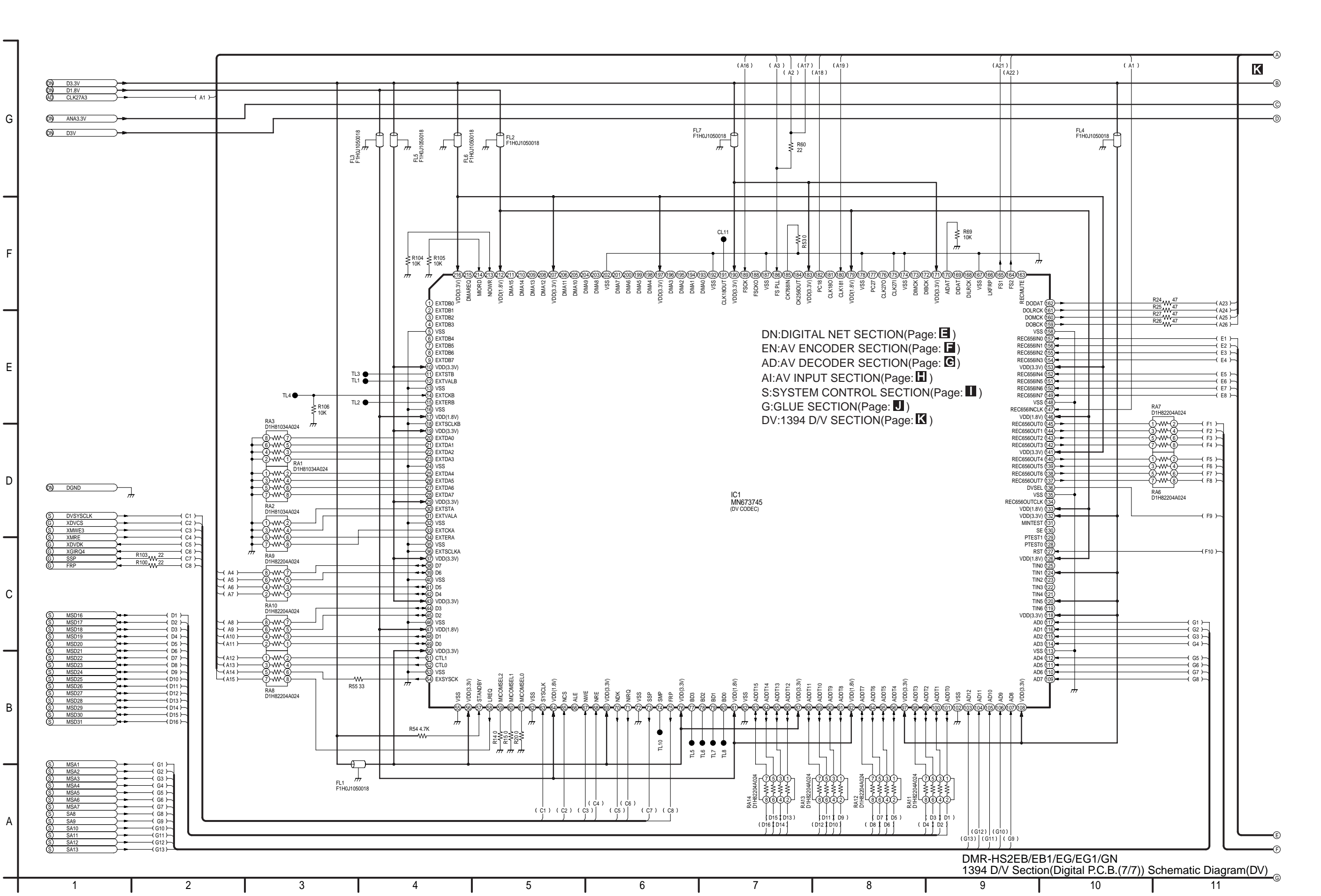
DMR-HS2EB/EB1/EG/EG1/GN
Glue Section(Digital P.C.B.(6/7)) Schematic Diagram(G)



DMR-HS2EB/EB1/EG/EG1/GN
 Glue Section(Digital P.C.B.(6/7)) Schematic Diagram(G)

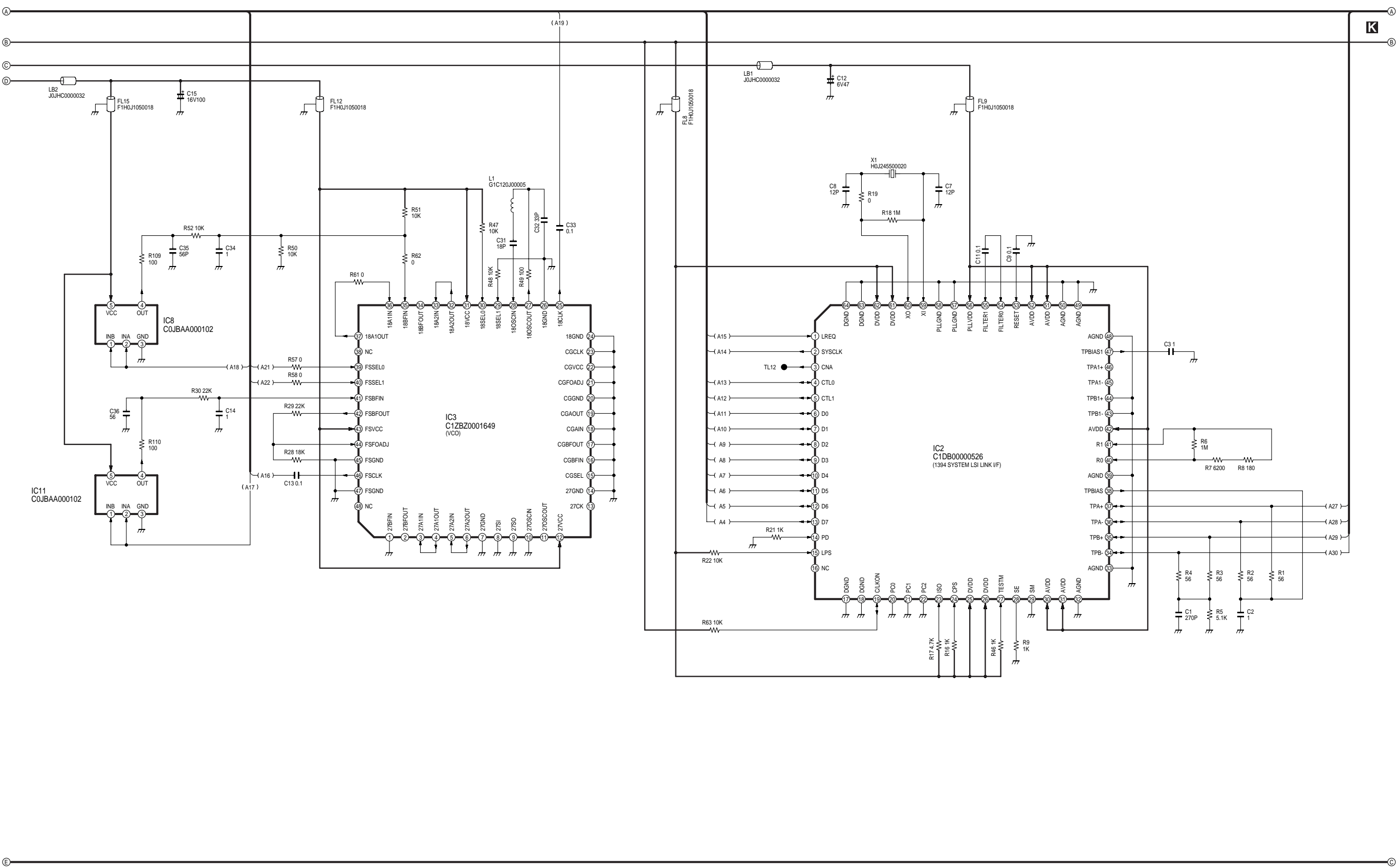
REF NO.6700 SERIES

DMR-HS2EB/EB1/EG/EG1/GN
 Glue Section(Digital P.C.B.(6/7)) Schematic Diagram(G)



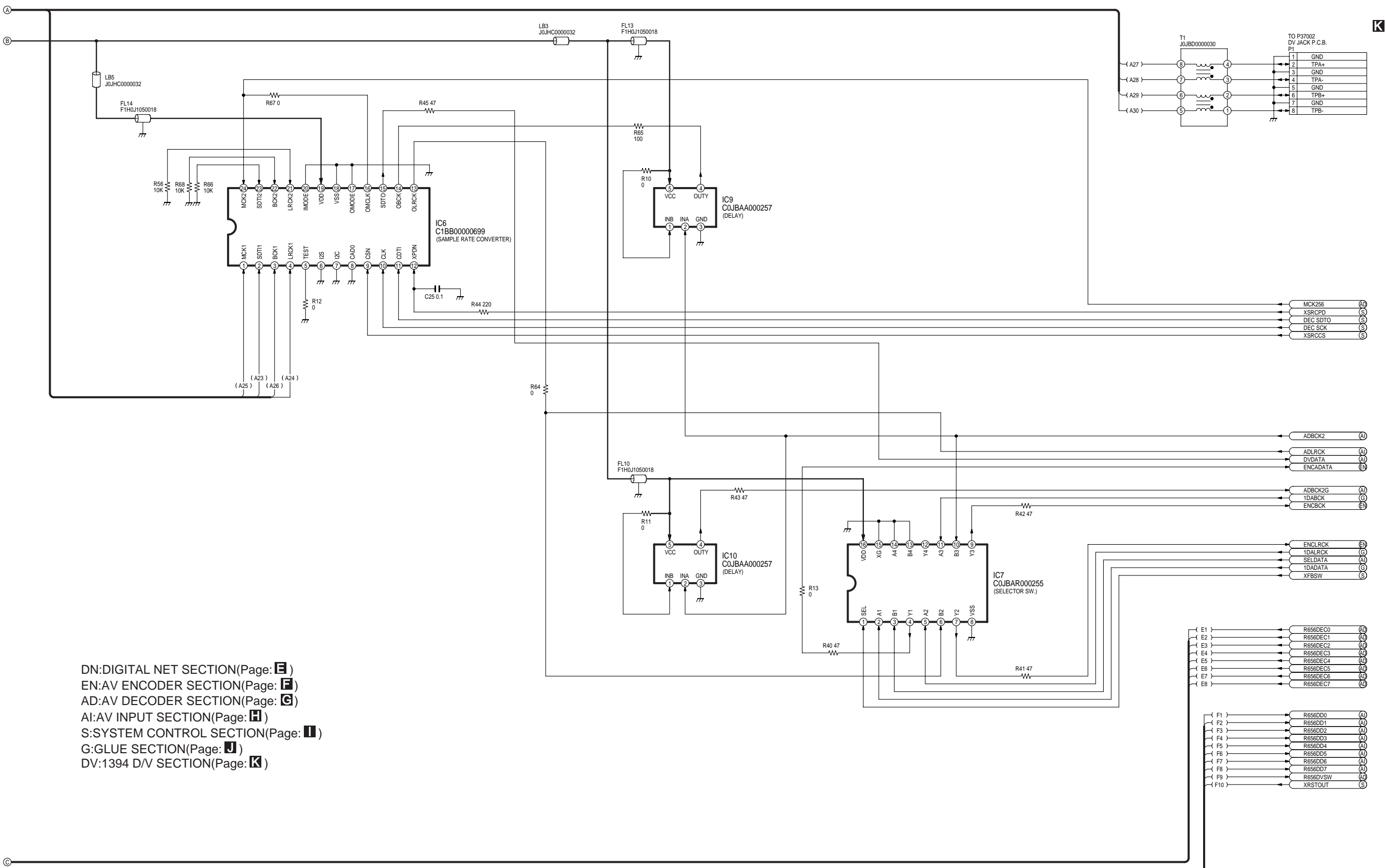
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 EN: AV ENCODER SECTION (Page: **F**)
 AD: AV DECODER SECTION (Page: **G**)
 AI: AV INPUT SECTION (Page: **H**)
 S: SYSTEM CONTROL SECTION (Page: **I**)
 G: GLUE SECTION (Page: **J**)
 DV: 1394 D/V SECTION (Page: **K**)

DMR-HS2EB/EB1/EG/EG1/GN
 1394 D/V Section (Digital P.C.B. 7/77) Schematic Diagram (DV)



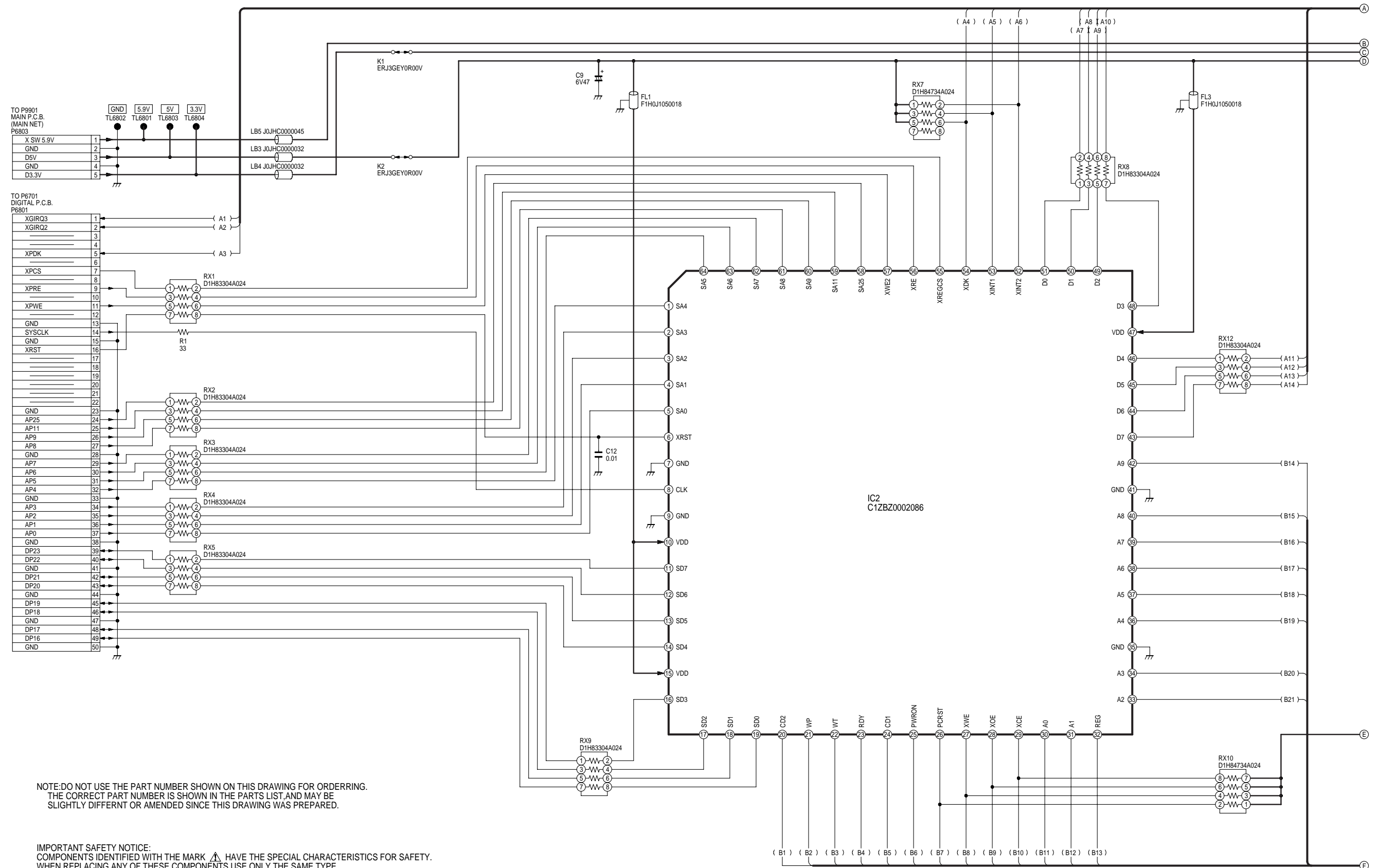
DMR-HS2EB/EB1/EG/EG1/GN
1394 D/V Section(Digital P.C.B.(7/7)) Schematic Diagram(DV)

DMR-HS2EB/EB1/EG/EG1/GN
1394 D/V Section(Digital P.C.B.(7/7)) Schematic Diagram(DV)



DN: DIGITAL NET SECTION (Page: **E**)
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 AD: AV DECODER SECTION (Page: **G**)
 AI: AV INPUT SECTION (Page: **H**)
 S: SYSTEM CONTROL SECTION (Page: **I**)
 G: GLUE SECTION (Page: **J**)
 DV: 1394 D/V SECTION (Page: **K**)

G
F
E
D
C
B
A

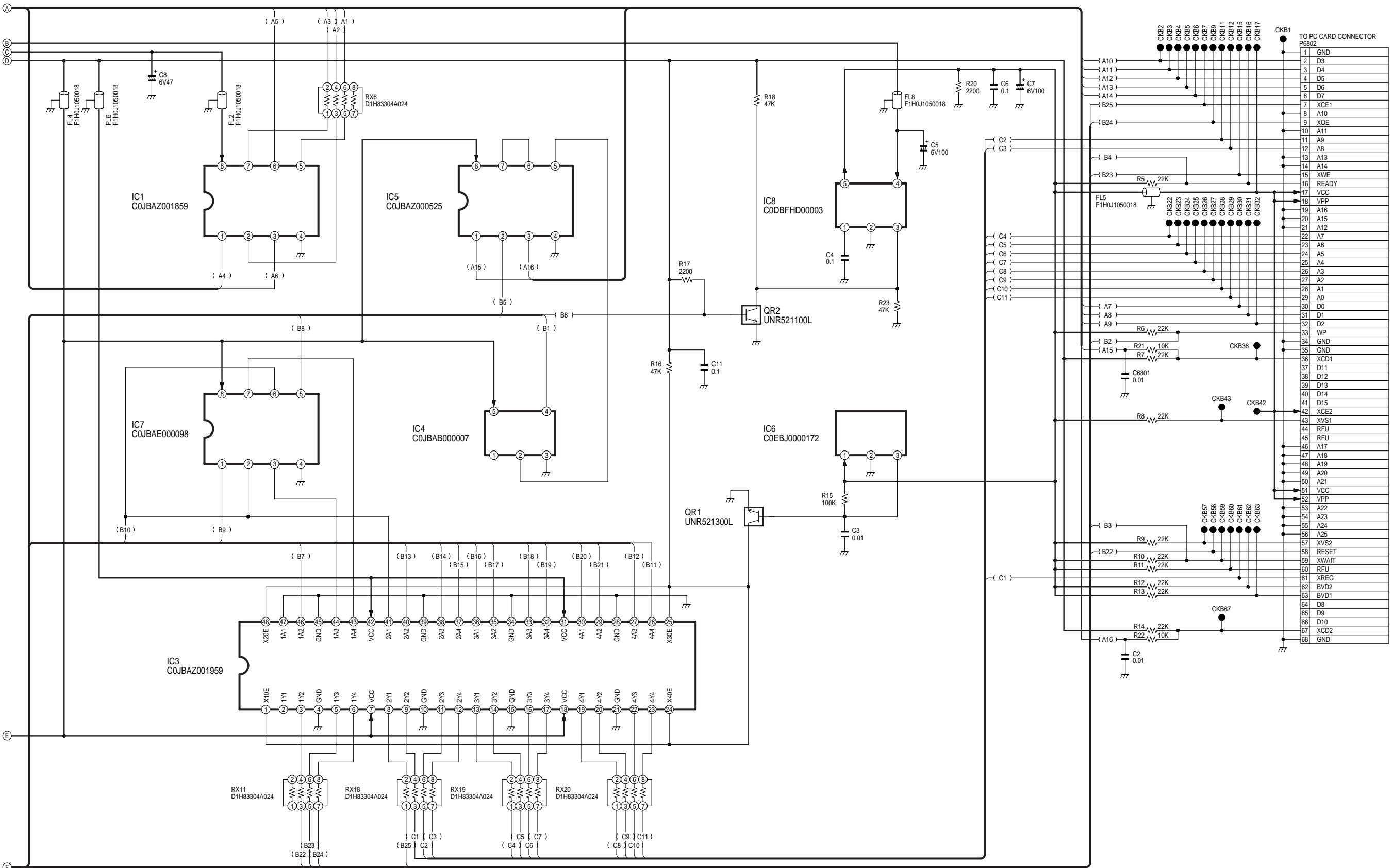


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DMR-HS2EB/EB1/EG/EG1/GN PC Card Schematic Diagram

1 2 3 4 5 6 7 8 9 10



TO PC CARD CONNECTOR P6802	
1	GND
2	D3
3	D4
4	D5
5	D6
6	D7
7	XCE1
8	A10
9	XOE
10	A11
11	A9
12	A8
13	A13
14	A14
15	XWE
16	READY
17	VCC
18	VPP
19	A16
20	A15
21	A12
22	A7
23	A6
24	A5
25	A4
26	A3
27	A2
28	A1
29	A0
30	D0
31	D1
32	D2
33	WP
34	GND
35	GND
36	XCD1
37	D11
38	D12
39	D13
40	D14
41	D15
42	XCE2
43	XVS1
44	RFU
45	RFU
46	A17
47	A18
48	A19
49	A20
50	A21
51	VCC
52	VPP
53	A22
54	A23
55	A24
56	A25
57	XVS2
58	RESET
59	XWAIT
60	RFU
61	XREG
62	BVD2
63	BVD1
64	D8
65	D9
66	D10
67	XCD2
68	GND

DMR-HS2EB/EB1/EG/EG1/GN
PC Card Schematic Diagram

REF NO.6800 SERIES

DMR-HS2EB/EB1/EG/EG1/GN
PC Card Schematic Diagram

D

C

B

A

TO HDD
P9801

	1
	2
RESET-	3
GND	4
DD7	5
DD8	6
DD6	7
DD9	8
DD5	9
DD10	10
DD4	11
DD11	12
DD3	13
DD12	14
DD2	15
DD13	16
DD1	17
DD14	18
DD0	19
DD15	20
GND	21
KEY PIN	22
DMARQ	23
GND	24
DIOW-	25
GND	26
DIOR-	27
GND	28
IORDY	29
GND	30
DMACK-	31
GND	32
INTRQ	33
RESERVED	34
DA1	35
PDIAG	36
DA0	37
DA2	38
DA0-	39
DA1-	40
DASP	41
GND	42
	43
	44

LB9801 0

LX9801
D1H8R0040009

LX9802
D1H8R0040009

LX9803
D1H8R0040009

LX9804
D1H8R0040009

LX9805
D1H8R0040009

LX9806
D1H8R0040009

LX9807
D1H8R0040009

LX9808
D1H8R0040009

TO P3402
DIGITAL P.C.B.
(AV ENCODER SECTION)
P9802

40	RESET-
39	GND
38	DD7
37	DD8
36	DD6
35	DD9
34	DD5
33	DD10
32	DD4
31	DD11
30	DD3
29	DD12
28	DD2
27	DD13
26	DD1
25	DD14
24	DD0
23	DD15
22	GND
21	KEY PIN
20	DMARQ
19	GND
18	DIOW-
17	GND
16	DIOR-
15	GND
14	IORDY
13	GND
12	DMACK-
11	GND
10	INTRQ
9	RESERVED
8	DA1
7	PDIAG-(C)
6	DA0
5	DA2
4	CS0-
3	CS1-
2	DASP
1	GND

1

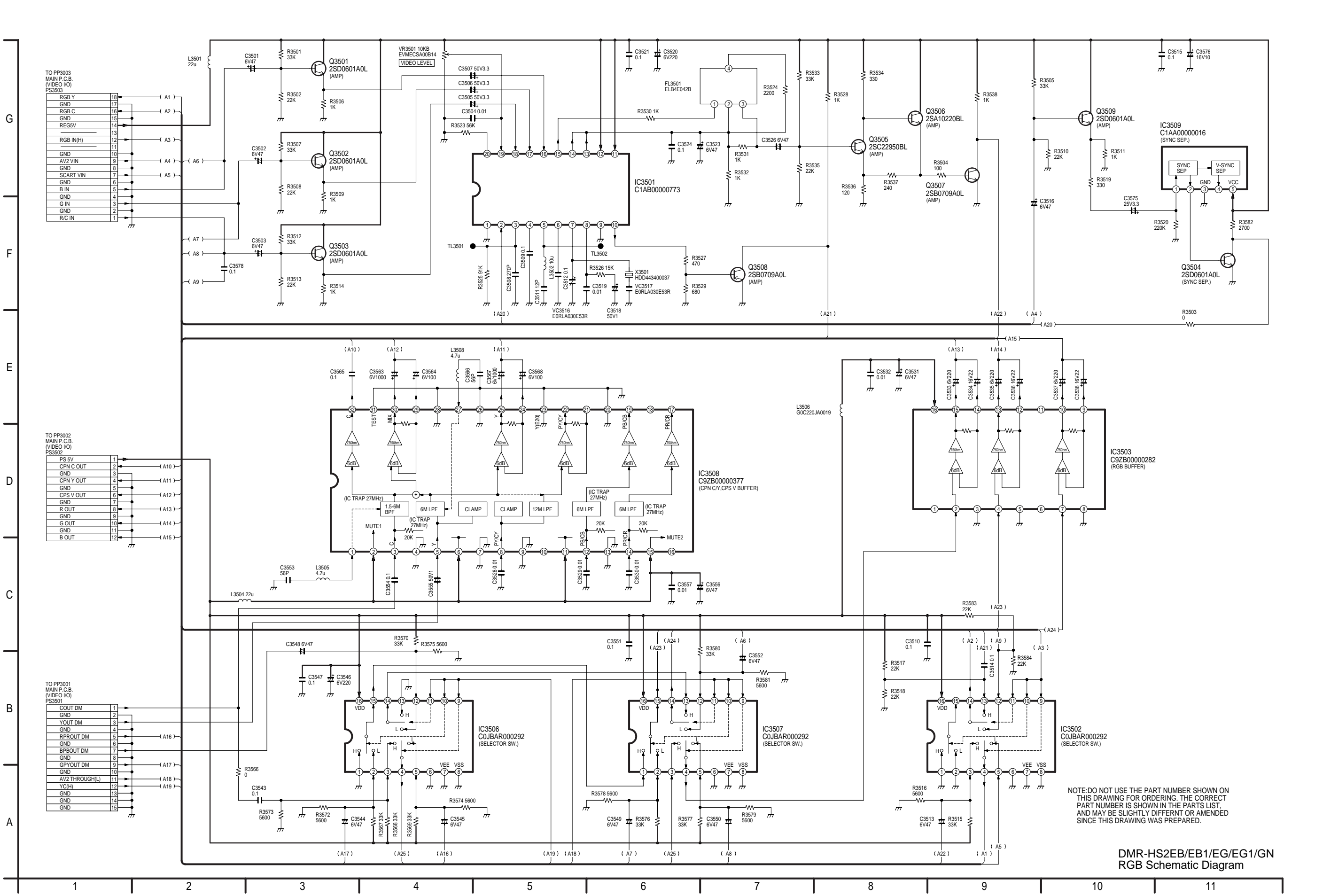
2

3

4

5

6



TO PP3003
MAIN P.C.B.
(VIDEO I/O)
PS3503

RGB Y	18	(A1)
GND	17	
RGB C	16	(A2)
GND	15	
REG5V	14	
	13	
RGB IN(H)	12	(A3)
GND	11	
AV2 VIN	9	(A4)
GND	8	
SCART VIN	7	(A5)
GND	6	
B IN	5	
GND	4	
G IN	3	
GND	2	
R/C IN	1	

TO PP3002
MAIN P.C.B.
(VIDEO I/O)
PS3502

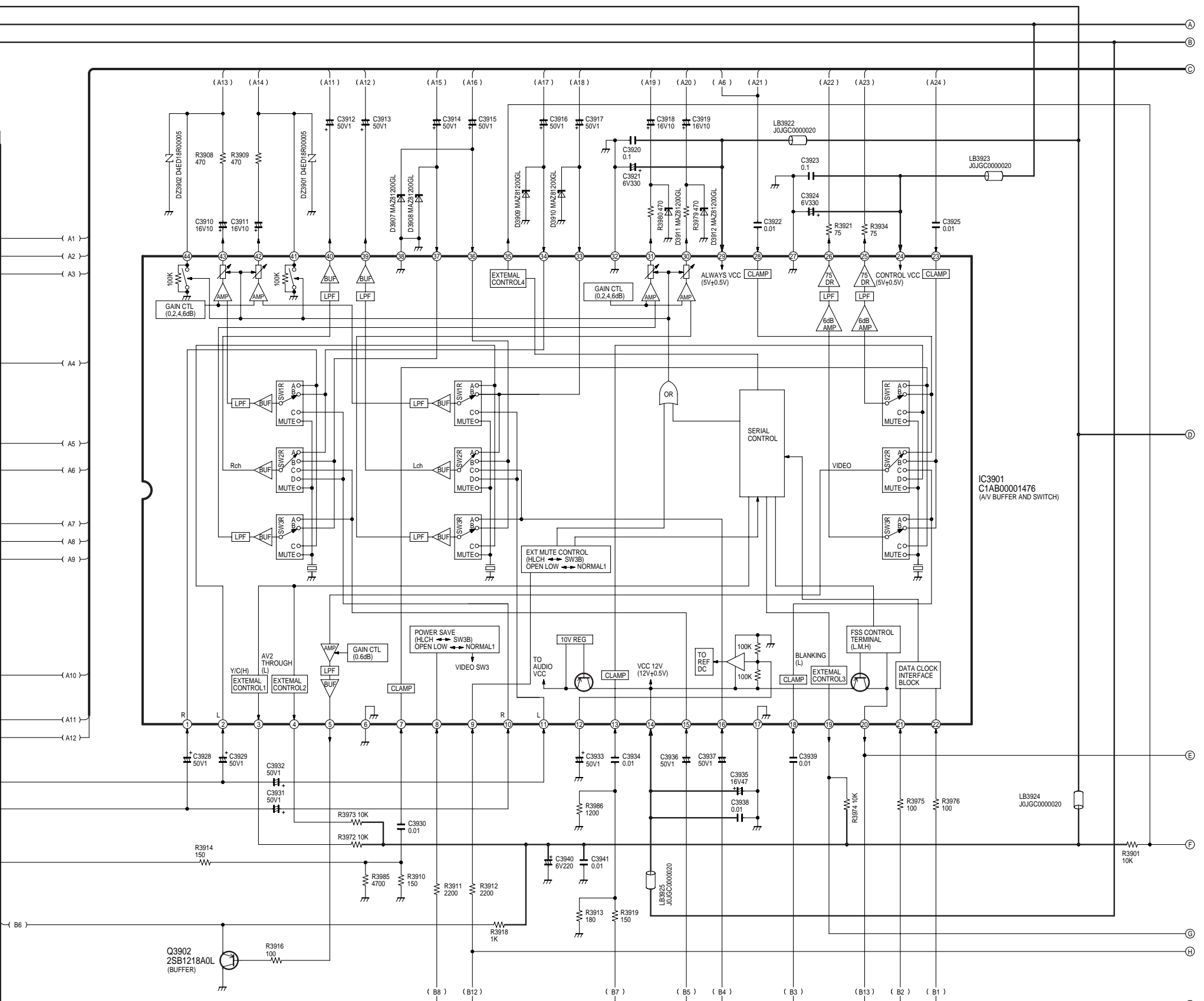
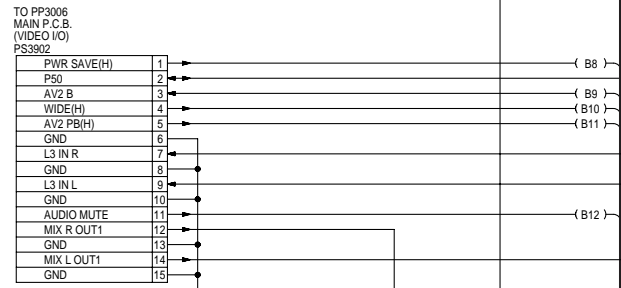
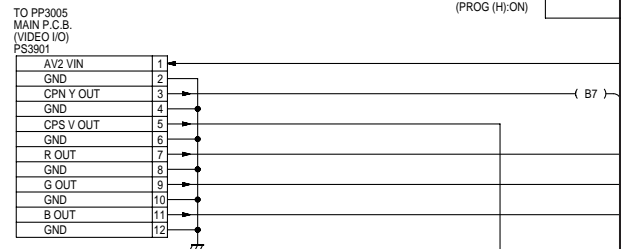
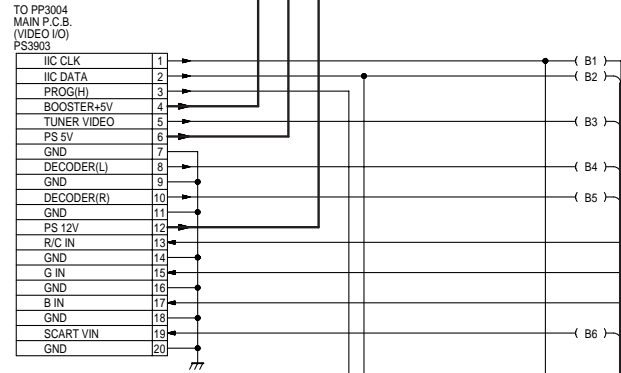
PS 5V	1	(A10)
CPN C OUT	2	(A11)
GND	3	
CPN Y OUT	4	(A12)
GND	5	
CPS V OUT	6	(A13)
GND	7	
R OUT	8	(A14)
GND	9	
G OUT	10	(A15)
GND	11	
B OUT	12	

TO PP3001
MAIN P.C.B.
(VIDEO I/O)
PS3501

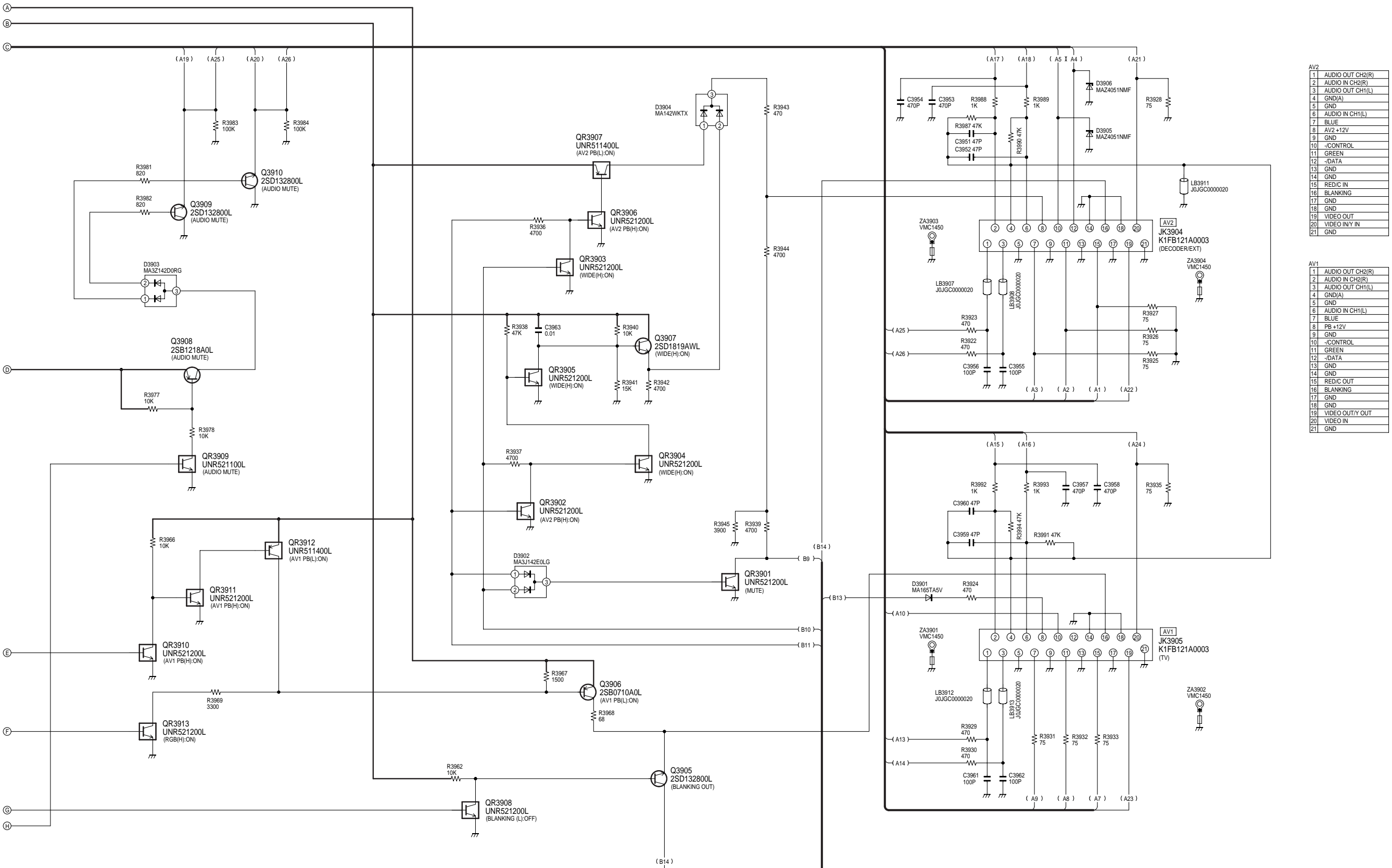
COUT DM	1	(A16)
GND	2	
YOUT DM	3	
GND	4	
RPROUT DM	5	(A17)
GND	6	
BPBOUT DM	7	(A18)
GND	8	
GPYOUT DM	9	(A19)
GND	10	
AV2 THROUGH(L)	11	
YC(H)	12	
GND	13	
GND	14	
GND	15	

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

G
F
E
D
C
B
A



DMR-HS2EB/EB1/EG/EG1/GN
Scart Schematic Diagram



AV2	
1	AUDIO OUT CH2(R)
2	AUDIO IN CH2(R)
3	AUDIO OUT CH1(L)
4	GND(A)
5	GND
6	AUDIO IN CH1(L)
7	BLUE
8	AV2 +12V
9	GND
10	-CONTROL
11	GREEN
12	-DATA
13	GND
14	GND
15	RED/C IN
16	BLANKING
17	GND
18	GND
19	VIDEO OUT
20	VIDEO IN/Y IN
21	GND

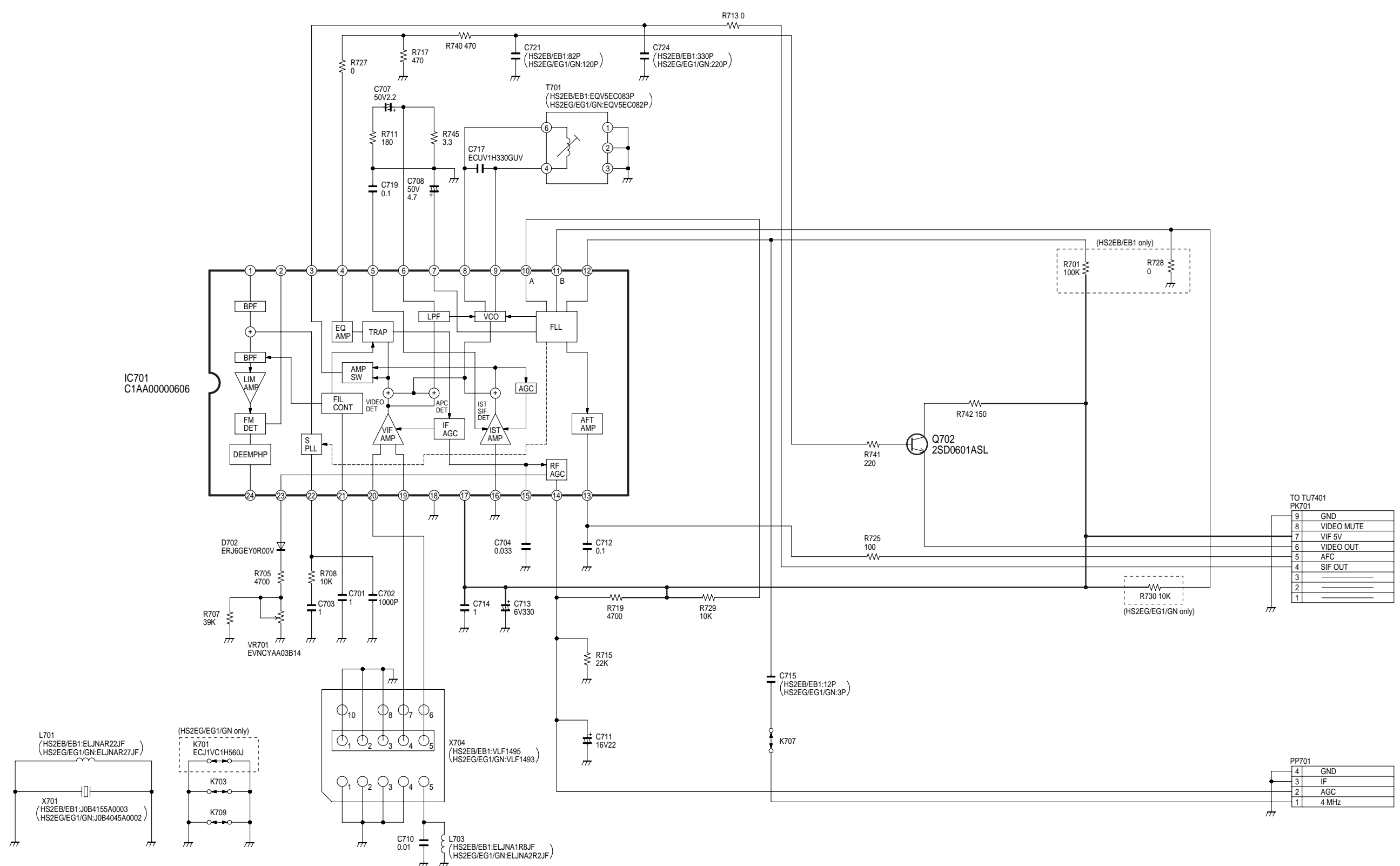
AV1	
1	AUDIO OUT CH2(R)
2	AUDIO IN CH2(R)
3	AUDIO OUT CH1(L)
4	GND(A)
5	GND
6	AUDIO IN CH1(L)
7	BLUE
8	PB +12V
9	GND
10	-CONTROL
11	GREEN
12	-DATA
13	GND
14	GND
15	RED/C OUT
16	BLANKING
17	GND
18	GND
19	VIDEO OUT/Y OUT
20	VIDEO IN
21	GND

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-HS2EB/EB1/EG/EG1/GN Scart Schematic Diagram

DMR-HS2EB/EB1/EG/EG1/GN Scart Schematic Diagram

F
E
D
C
B
A



TO TU7401
PK701

9	GND
8	VIDEO MUTE
7	VIF 5V
6	VIDEO OUT
5	AFC
4	SIF OUT
3	
2	
1	

PP701

4	GND
3	IF
2	AGC
1	4 MHz

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

DMR-HS2EB/EB1/EG/EG1/GN
VIF Decoder Schematic Diagram

1 2 3 4 5 6 7 8

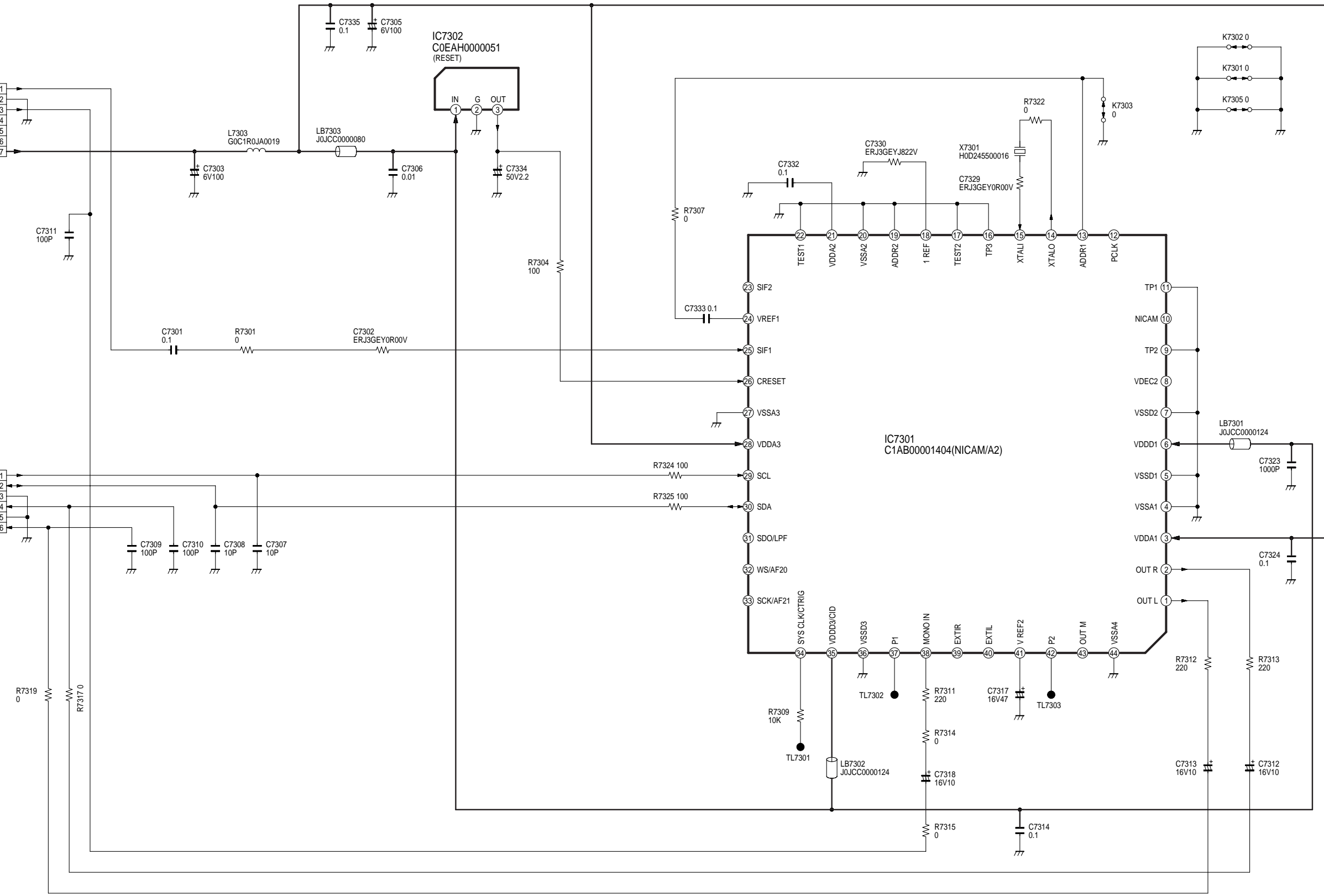
F
E
D
C
B
A

TO PK7701
MAIN P.C.B.
(MAIN NET)
PK7301

SIF	1
GND	2
TU AUDIO	3
	4
	5
	6
SW 5V	7

TO PK7702
MAIN P.C.B.
(MAIN NET)
PK7302

SCL	1
SDA	2
GND	3
AUDIO(R)	4
GND	5
AUDIO(L)	6



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

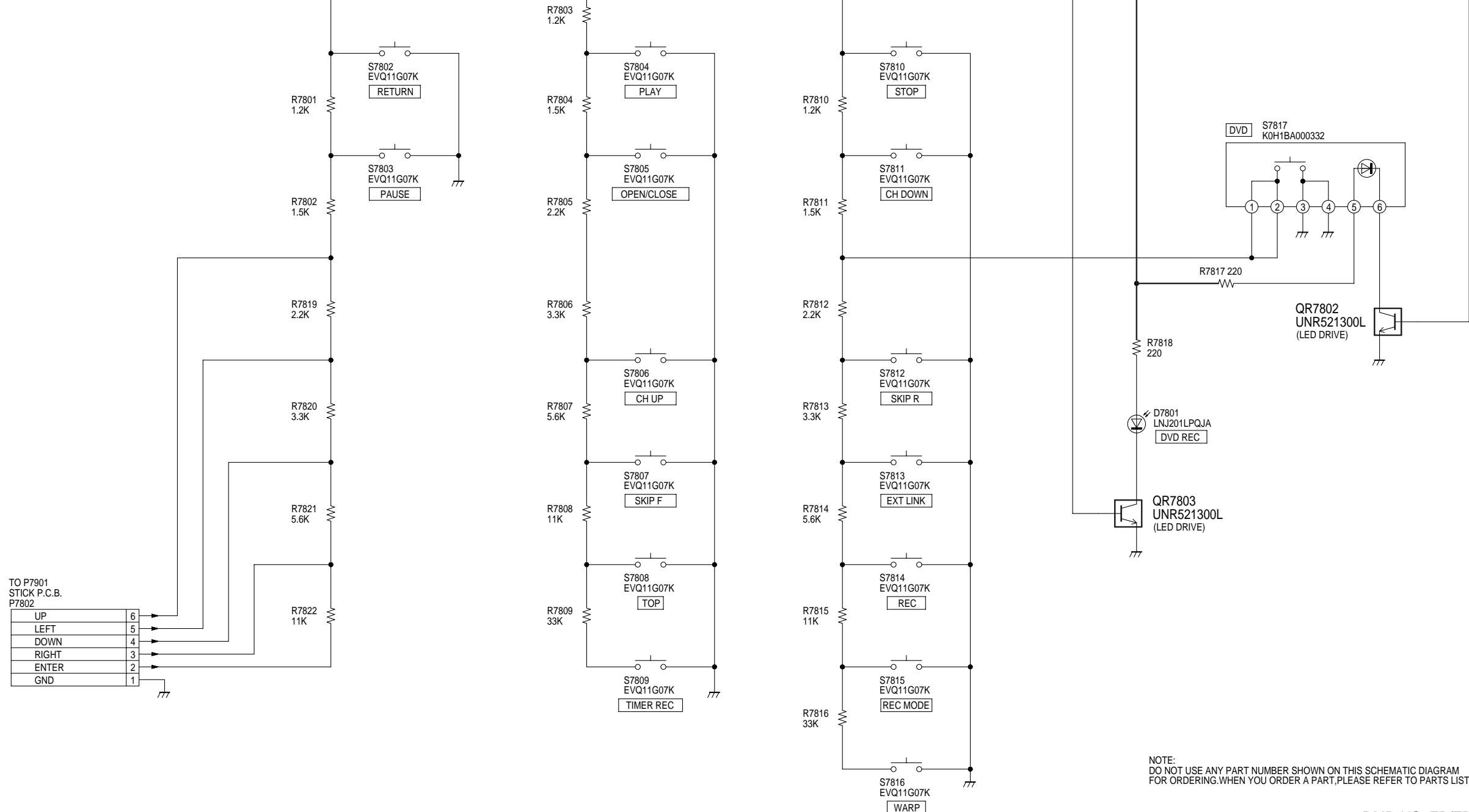
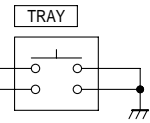
DMR-HS2EB/EB1/EG/EG1/GN
Nicam/Decoder Schematic Diagram

1 2 3 4 5 6 7 8

TO PS103
POWER SUPPLY P.C.B.
P7801

BLIND OPEN(H)	1
	2
LED2	3
LED3	4
	5
KEYIN1	6
KEYIN2	7
KEYIN3	8
GND	9
X SW 5V	10

S7801
KOL1BA00056



TO P7901
STICK P.C.B.
P7802

UP	6
LEFT	5
DOWN	4
RIGHT	3
ENTER	2
GND	1

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

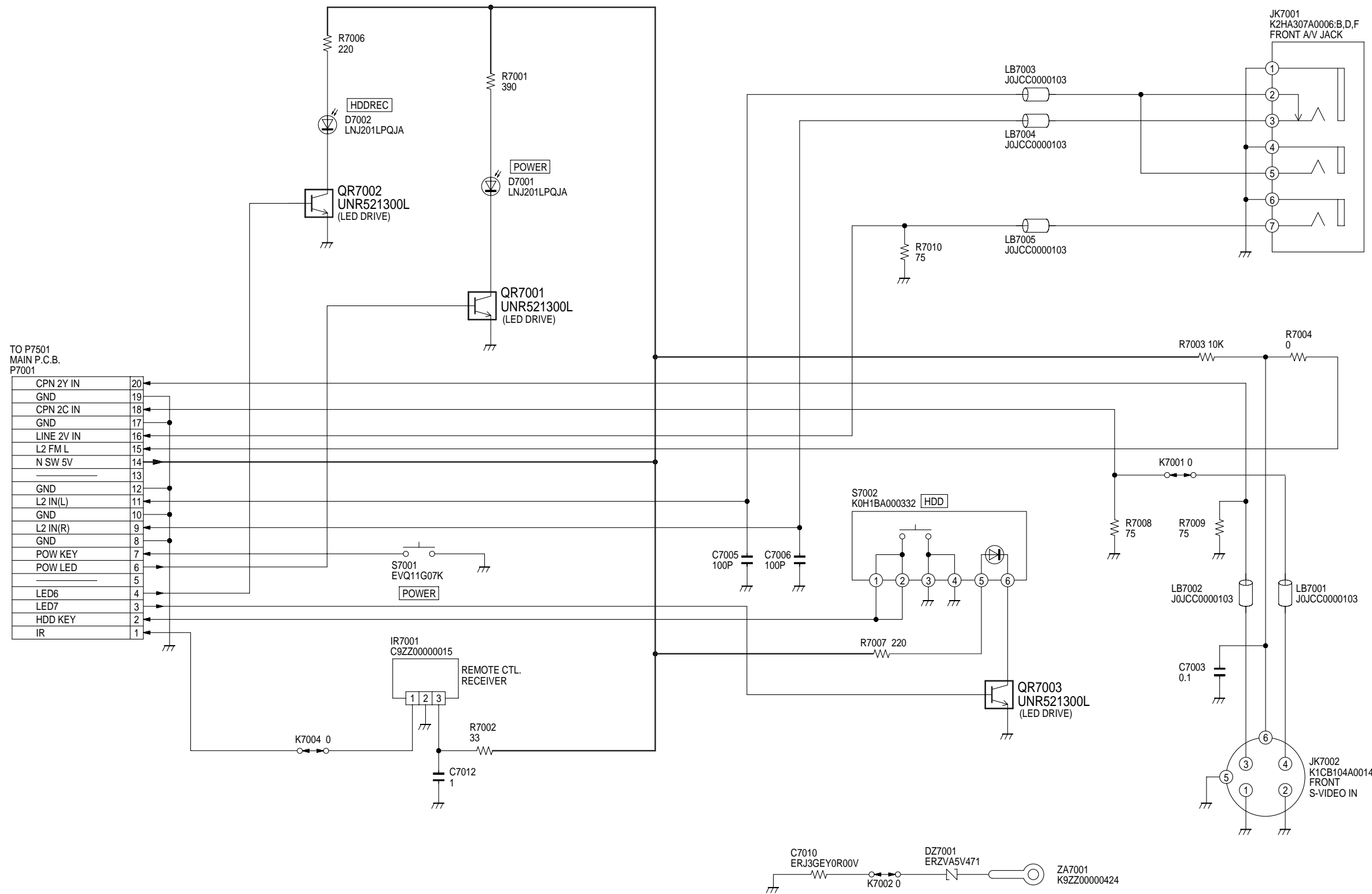
E

D

C

B

A



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

DMR-HS2EB/EB1/EG/EG1/GN
Front (L) Schematic Diagram

1

2

3

4

5

6

7

C

B

A

TO P37001
DIGITAL P.C.B.
(1394 D/V SECTION)
P37002

GND	1
TPA+	2
GND	3
TPA-	4
GND	5
TPB+	6
GND	7
TPB-	8

TO DV INPUT JACK
(FRONT PANEL)
P37003

1	TPA+
2	TPA-
3	TPB+
4	TPB-

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC
DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE
REFER TO PARTS LIST.

DMR-HS2EB/EB1/EG/EG1/GN
DV Input Jack Schematic Diagram

1

2

3

4

C

B

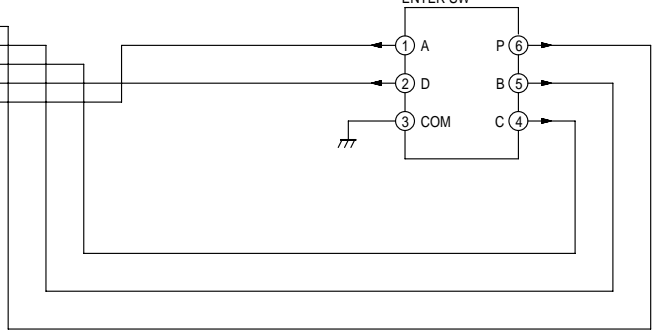
A

TO P7802
 FRONT (R) P.C.B.
 P7901

GND	1
ENTER	2
RIGHT	3
DOWN	4
LEFT	5
UP	6



S7901
 K0C115A00002
 ENTER SW



NOTE:
 DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC
 DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE
 REFER TO PARTS LIST.

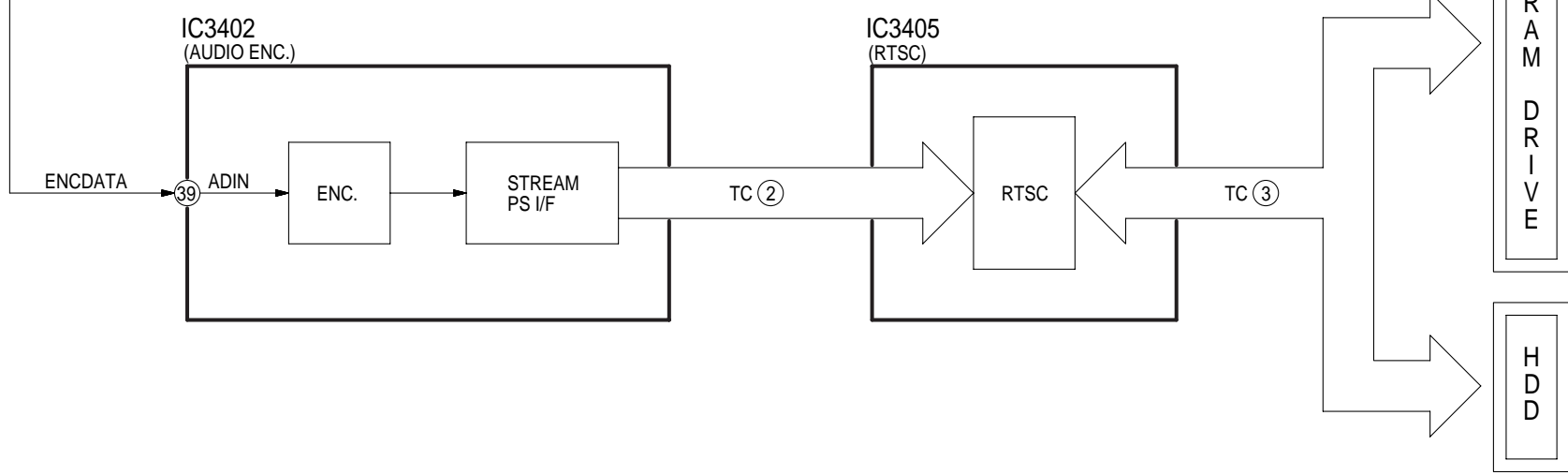
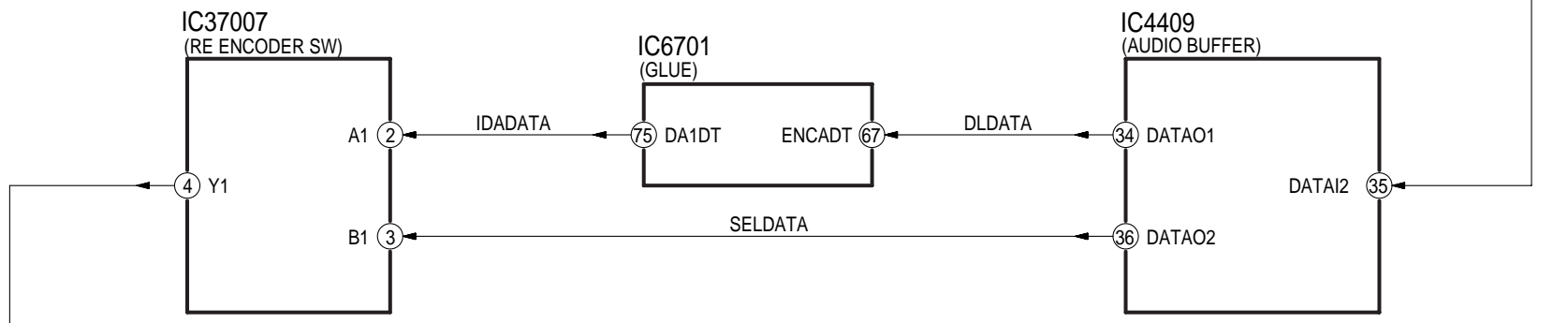
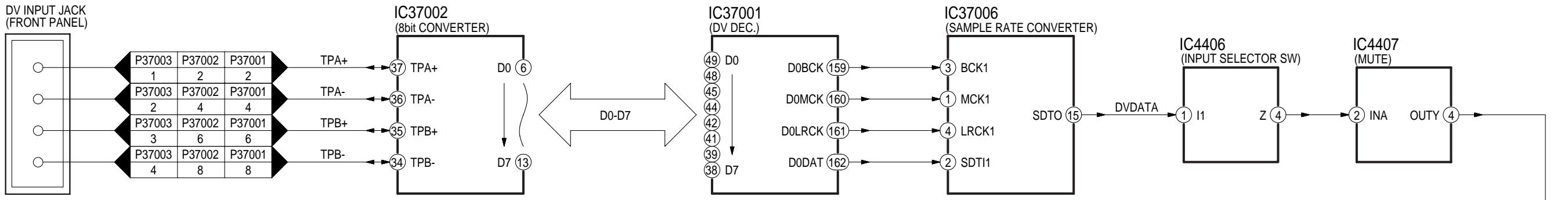
DMR-HS2EB/EB1/EG/EG1/GN
 Stick Schematic Diagram

1

2

3

4



P.C.B. Name	Circuit Name	Ref.No.
Digital P.C.B.	Digital Net	Ref.No.9000 SERIES
	Main P.C.B.connect circuit	P9001
	AV-Encoder	Ref.No.3400 SERIES
	AV-Decoder	Ref.No.50000 SERIES
	AV-Input	Ref.No.3200/4400 SERIES
	System Control	Ref.No.6000 SERIES
	Glue	Ref.No.6700 SERIES
	1394 DV	Ref.No.37000 SERIES
Main P.C.B.	Main Net	Ref.No.9900 SERIES
	Digital P.C.B.connect circuit	PP9901
	Video I/O Main	Ref.No.3000 SERIES
	Audio Main	Ref.No.4000 SERIES
	Timer	Ref.No.7500 SERIES

DMR-HS2EB/EB1/EG/EG1/GN
Digital Section Block Diagram(2)
(DV Audio Signal)

TC	IC3203/VAD CON		SIGNAL NAME	IC3402/AV ENC	
	Port Name	Pin No		Pin No	Port Name
1	R656OUT0	141	R656ENC0	17	VIN0
	R656OUT1	140	R656ENC1	18	VIN1
	R656OUT2	139	R656ENC2	20	VIN2
	R656OUT3	138	R656ENC3	21	VIN3
	R656OUT4	135	R656ENC4	23	VIN4
	R656OUT5	134	R656ENC5	24	VIN5
	R656OUT6	133	R656ENC6	25	VIN6
	R656OUT7	132	R656ENC7	26	VIN7

TC	IC3402/AV ENC		SIGNAL NAME	IC3405/RTSC	
	Port Name	Pin No		Pin No	Port Name
2	CDO0	63	CDO0	16	EC1DT0
	CDO1	64	CDO1	17	EC1DT1
	CDO2	65	CDO2	18	EC1DT2
	CDO3	67	CDO3	19	EC1DT3
	CDO4	68	CDO4	20	EC1DT4
	CDO5	69	CDO5	21	EC1DT5
	CDO6	72	CDO6	22	EC1DT6
	CDO7	73	CDO7	23	EC1DT7

TC	IC3405/RTSC		SIGNAL NAME	P3401 (DVD RAM)	
	Port Name	Pin No		Pin No	Port Name
3	S1DB0	165	RAMD0	17	DD0
	S1DB1	167	RAMD1	15	DD1
	S1DB2	170	RAMD2	13	DD2
	S1DB3	172	RAMD3	11	DD3
	S1DB4	175	RAMD4	9	DD4
	S1DB5	177	RAMD5	7	DD5
	S1DB6	180	RAMD6	5	DD6
	S1DB7	182	RAMD7	3	DD7
	S1DB8	181	RAMD8	4	DD8
	S1DB9	179	RAMD9	6	DD9
	S1DB10	176	RAMD10	8	DD10
	S1DB11	174	RAMD11	10	DD11
	S1DB12	171	RAMD12	12	DD12
	S1DB13	169	RAMD13	14	DD13
	S1DB14	166	RAMD14	16	DD14
	S1DB15	164	RAMD15	18	DD15

TC	IC3203/VAD CON		SIGNAL NAME	IC3201/SDRAM	
	Port Name	Pin No		Pin No	Port Name
4	M0DT0	63	DT0	2	DQ0
	M0DT1	62	DT1	3	DQ1
	M0DT2	60	DT2	5	DQ2
	M0DT3	59	DT3	6	DQ3
	M0DT4	57	DT4	8	DQ4
	M0DT5	56	DT5	9	DQ5
	M0DT6	54	DT6	11	DQ6
	M0DT7	53	DT7	12	DQ7
	M0DT8	50	DT8	39	DQ8
	M0DT9	49	DT9	40	DQ9
	M0DT10	47	DT10	42	DQ10
	M0DT11	46	DT11	43	DQ11
	M0DT12	44	DT12	45	DQ12
	M0DT13	43	DT13	46	DQ13
	M0DT14	41	DT14	48	DQ14
M0DT15	40	DT15	49	DQ15	
M0AD0	83	AD0	21	A0	
M0AD1	82	AD1	22	A1	
M0AD2	80	AD2	23	A2	
M0AD3	79	AD3	24	A3	
M0AD4	76	AD4	27	A4	
M0AD5	75	AD5	28	A5	
M0AD6	73	AD6	29	A6	
M0AD7	72	AD7	30	A7	
M0AD8	70	AD8	31	A8	
M0AD9	69	AD9	32	A9	
M0AP	67	AD10	20	A10	
M0BA	66	AD11	19	A11	

TC	IC3402/AV ENC		SIGNAL NAME	IC3401/SDRAM	
	Port Name	Pin No		Pin No	Port Name
5	MDQ0	124	MDQA0	2	DQ0
	MDQ1	125	MDQA1	4	DQ1
	MDQ2	127	MDQA2	5	DQ2
	MDQ3	128	MDQA3	7	DQ3
	MDQ4	130	MDQA4	8	DQ4
	MDQ5	131	MDQA5	10	DQ5
	MDQ6	133	MDQA6	11	DQ6
	MDQ7	134	MDQA7	13	DQ7
	MDQ8	137	MDQA8	74	DQ8
	MDQ9	138	MDQA9	76	DQ9
	MDQ10	140	MDQA10	77	DQ10
	MDQ11	141	MDQA11	79	DQ11
	MDQ12	143	MDQA12	80	DQ12
	MDQ13	144	MDQA13	82	DQ13
	MDQ14	146	MDQA14	83	DQ14
	MDQ15	147	MDQA15	85	DQ15
	MDQ16	150	MDQA16	31	DQ16
	MDQ17	151	MDQA17	33	DQ17
	MDQ18	153	MDQA18	34	DQ18
	MDQ19	154	MDQA19	36	DQ19
	MDQ20	158	MDQA20	37	DQ20
	MDQ21	159	MDQA21	39	DQ21
	MDQ22	161	MDQA22	40	DQ22
	MDQ23	162	MDQA23	42	DQ23
	MDQ24	165	MDQA24	45	DQ24
	MDQ25	166	MDQA25	47	DQ25
	MDQ26	168	MDQA26	48	DQ26
	MDQ27	169	MDQA27	50	DQ27
	MDQ28	186	MDQA28	51	DQ28
	MDQ29	187	MDQA29	53	DQ29
	MDQ30	190	MDQA30	54	DQ30
MDQ31	191	MDQA31	56	DQ31	

TC	IC3405/RTSC		SIGNAL NAME	IC3403,IC3404/SDRAM	
	Port Name	Pin No		Pin No	Port Name
6	MDQ0	184	MADQ80	2	DQ0
	MDQ1	186	MADQ81	4	DQ1
	MDQ2	188	MADQ82	5	DQ2
	MDQ3	191	MADQ83	7	DQ3
	MDQ4	195	MADQ84	8	DQ4
	MDQ5	197	MADQ85	10	DQ5
	MDQ6	199	MADQ86	11	DQ6
	MDQ7	201	MADQ87	13	DQ7
	MDQ8	202	MADQ88	42	DQ8
	MDQ9	200	MADQ89	44	DQ9
	MDQ10	198	MADQ810	45	DQ10
	MDQ11	196	MADQ811	47	DQ11
	MDQ12	194	MADQ812	48	DQ12
	MDQ13	190	MADQ813	50	DQ13
	MDQ14	187	MADQ814	51	DQ14
MDQ15	185	MADQ815	53	DQ15	

TC	IC3203/VAD CON		SIGNAL NAME	IC50003/AV DEC	
	Port Name	Pin No		Pin No	Port Name
7	R656OUT0	141	R656ENC0	138	VDIN0
	R656OUT1	140	R656ENC1	137	VDIN1
	R656OUT2	139	R656ENC2	136	VDIN2
	R656OUT3	138	R656ENC3	134	VDIN3
	R656OUT4	135	R656ENC4	133	VDIN4
	R656OUT5	134	R656ENC5	132	VDIN5
	R656OUT6	133	R656ENC6	130	VDIN6
R656OUT7	132	R656ENC7	129	VDIN7	

TC	IC50003/AV DEC		SIGNAL NAME	IC50002/SDRAM	
	Port Name	Pin No		Pin No	Port Name
8	MDQ0	17	DQ0	2	DQ0
	MDQ1	14	DQ1	4	DQ1
	MDQ2	11	DQ2	5	DQ2
	MDQ3	8	DQ3	7	DQ3
	MDQ4	6	DQ4	8	DQ4
	MDQ5	3	DQ5	10	DQ5
	MDQ6	207	DQ6	11	DQ6
	MDQ7	205	DQ7	13	DQ7
	MDQ8	206	DQ8	42	DQ8
	MDQ9	2	DQ9	44	DQ9
	MDQ10	4	DQ10	45	DQ10
	MDQ11	7	DQ11	47	DQ11
	MDQ12	9	DQ12	48	DQ12
	MDQ13	13	DQ13	50	DQ13
	MDQ14	16	DQ14	51	DQ14
MDQ15	18	DQ15	53	DQ15	
MA0	183	A0	23	A0	
MA1	181	A1	24	A1	
MA2	178	A2	25	A2	
MA3	176	A3	26	A3	
MA4	177	A4	29	A4	
MA5	179	A5	30	A5	
MA6	182	A6	31	A6	
MA7	188	A7	32	A7	
MA8	191	A8	33	A8	
MA9	196	A9	34	A9	
MA10	189	A10	22	A10	
MA11	192	A11	35	A11	

TC	IC50003/AV DEC		SIGNAL NAME	IC50004/SDRAM	
	Port Name	Pin No		Pin No	Port Name
9	MDQ16	171	DQ16	2	DQ0
	MDQ17	168	DQ17	4	DQ1
	MDQ18	166	DQ18	5	DQ2
	MDQ19	163	DQ19	7	DQ3
	MDQ20	160	DQ20	8	DQ4
	MDQ21	158	DQ21	10	DQ5
	MDQ22	154	DQ22	11	DQ6
	MDQ23	151	DQ23	13	DQ7
	MDQ24	150	DQ24	42	DQ8
	MDQ25	153	DQ25	44	DQ9
	MDQ26	155	DQ26	45	DQ10
	MDQ27	159	DQ27	47	DQ11
	MDQ28	162	DQ28	48	DQ12
	MDQ29	164	DQ29	50	DQ13
	MDQ30	167	DQ30	51	DQ14
MDQ31	169	DQ31	53	DQ15	
MA0	183	A0	23	A0	
MA1	181	A1	24	A1	
MA2	178	A2	25	A2	
MA3	176	A3	26	A3	
MA4	177	A4	29	A4	
MA5	179	A5	30	A5	
MA6	182	A6	31	A6	
MA7	188	A7	32	A7	
MA8	191	A8	33	A8	
MA9	196	A9	34	A9	
MA10	189	A10	22	A10	
MA11	192	A11	35	A11	

TC	IC3203/VAD CON		SIGNAL NAME	IC6002/BUFFER	
	Port Name	Pin No		Pin No	Port Name
10	MDA0	129	MSD16	47	1A1
	MDA1	128	MSD17	46	1A2
	MDA2	127	MSD18	44	1A3
	MDA3	126	MSD19	43	1A4
	MDA4	124	MSD20	41	1A5
	MDA5	123	MSD21	40	1A6
	MDA6	122	MSD22	38	1A7
	MDA7	121	MSD23	37	1A8
	MDA8	118	MSD24	36	2A1
	MDA9	117	MSD25	35	2A2
	MDA10	116	MSD26	33	2A3
	MDA11	115	MSD27	32	2A4
	MDA12	113	MSD28	30	2A5
	MDA13	112	MSD29	29	2A6
	MDA14	111	MSD30	27	2A7
MDA15	110	MSD31	26	2A8	

TC	IC3203/VAD CON		SIGNAL NAME	IC6003/BUFFER	
	Port Name	Pin No		Pin No	Port Name
10	MD0	107	MSA1	23	4Y4
	MD1	106	MSA2	22	4Y3
	MD2	105	MSA3	20	4Y2
	MD3	104	MSA4	19	4Y1
	MD4	103	MSA5	17	3Y4
	MD5	102	MSA6	16	3Y3
	MD6	101	MSA7	14	3Y2

TC	IC3402/AV ENC		SIGNAL NAME	IC6002/BUFFER	
	Port Name	Pin No		Pin No	Port Name
11	HD0	81	MSD16	47	1A1
	HD1	82	MSD17	46	1A2
	HD2	85	MSD18	44	1A3
	HD3	86	MSD19	43	1A4
	HD4	88	MSD20	41	1A5
	HD5	89	MSD21	40	1A6
	HD6	90	MSD22	38	1A7
	HD7	92	MSD23	37	1A8
	HD8	93	MSD24	36	2A1
	HD9	94	MSD25	35	2A2
	HD10	97	MSD26	33	2A3
	HD11	98	MSD27	32	2A4
	HD12	99	MSD28	30	2A5
	HD13	101	MSD29	29	2A6
	HD14	102	MSD30	27	2A7
HD15	103	MSD31	26	2A8	

TC	IC3402/AV ENC		SIGNAL NAME	IC6003/BUFFER	
	Port Name	Pin No		Pin No	Port Name
11	HA0	106	MSA1	23	4Y4
	HA1	107	MSA2	22	4Y3
	HA2	108	MSA3	20	4Y2
	HA3	109	MSA4	19	4Y1
	HA4	105	MSA5	17	3Y4

TC	IC3405/RTSC		SIGNAL NAME	IC6002/BUFFER	
	Port Name	Pin No		Pin No	Port Name
12	HMDT16	99	MSD16	47	1A1
	HMDT17	98	MSD17	46	1A2
	HMDT18	97	MSD18	44	1A3
	HMDT19	96	MSD19	43	1A4
	HMDT20	95	MSD20	41	1A5
	HMDT21	94	MSD21	40	1A6
	HMDT22	93	MSD22	38	1A7
	HMDT23	92	MSD23	37	1A8
	HMDT24	89	MSD24	36	2A1
	HMDT25	88	MSD25	35	2A2
	HMDT26	87	MSD26	33	2A3
	HMDT27	86	MSD27	32	2A4
	HMDT28	85	MSD28	30	2A5
	HMDT29	84	MSD29	29	2A6
	HMDT30	83	MSD30	27	2A7
HMDT31	82	MSD31	26	2A8	

TC	IC3405/RTSC		SIGNAL NAME	IC6003/BUFFER	
	Port Name	Pin No		Pin No	Port Name
12 2	HMADR1	56	MSA1	23	4Y4
	HMADR2	57	MSA2	22	4Y3
	HMADR3	58	MSA3	20	4Y2
	HMADR4	59	MSA4	19	4Y1
	HMADR5	60	MSA5	17	3Y4
	HMADR6	61	MSA6	16	3Y3
	HMADR7	62	MSA7	14	3Y2

TC	IC6701/GLUE		SIGNAL NAME	IC6002/BUFFER	
	Port Name	Pin No		Pin No	Port Name
13 1	MSD16	18	MSD16	47	1A1
	MSD17	17	MSD17	46	1A2
	MSD18	16	MSD18	44	1A3
	MSD19	15	MSD19	43	1A4
	MSD20	14	MSD20	41	1A5
	MSD21	13	MSD21	40	1A6
	MSD22	12	MSD22	38	1A7
	MSD23	11	MSD23	37	1A8
	MSD24	9	MSD24	36	2A1
	MSD25	8	MSD25	35	2A2
	MSD26	7	MSD26	33	2A3
	MSD27	6	MSD27	32	2A4
	MSD28	5	MSD28	30	2A5
	MSD29	4	MSD29	29	2A6
	MSD30	3	MSD30	27	2A7
MSD31	2	MSD31	26	2A8	

TC	IC6701/GLUE		SIGNAL NAME	IC6003/BUFFER	
	Port Name	Pin No		Pin No	Port Name
13 2	MSA1	94	MSA1	23	4Y4
	MSA2	95	MSA2	22	4Y3
	MSA3	96	MSA3	20	4Y2
	MSA4	97	MSA4	19	4Y1
	MSA5	98	MSA5	17	3Y4
	MSA6	99	MSA6	16	3Y3
	MSA7	104	MSA7	14	3Y2

TC	IC50003/AV DEC		SIGNAL NAME	IC6002/BUFFER	
	Port Name	Pin No		Pin No	Port Name
14 1	HD0	55	MSD16	47	1A1
	HD1	56	MSD17	46	1A2
	HD2	57	MSD18	44	1A3
	HD3	59	MSD19	43	1A4
	HD4	60	MSD20	41	1A5
	HD5	61	MSD21	40	1A6
	HD6	63	MSD22	38	1A7
	HD7	64	MSD23	37	1A8
	HD8	65	MSD24	36	2A1
	HD9	67	MSD25	35	2A2
	HD10	68	MSD26	33	2A3
	HD11	70	MSD27	32	2A4
	HD12	72	MSD28	30	2A5
	HD13	73	MSD29	29	2A6
	HD14	74	MSD30	27	2A7
HD15	76	MSD31	26	2A8	

TC	IC50003/AV DEC		SIGNAL NAME	IC6003/BUFFER	
	Port Name	Pin No		Pin No	Port Name
14 2	HA1	32	MSA1	23	4Y4
	HA2	33	MSA2	22	4Y3
	HA3	35	MSA3	20	4Y2
	HA4	36	MSA4	19	4Y1
	HA5	37	MSA5	17	3Y4
	HA6	38	MSA6	16	3Y3
	HA7	40	MSA7	14	3Y2

TC	IC6005/CPU		SIGNAL NAME	IC6001,6008/WORKING MEMORY	
	Port Name	Pin No		Pin No	Port Name
	MD0	205	MD0	2	DQ0
	MD1	206	MD1	4	DQ1
	MD2	207	MD2	5	DQ2
	MD3	208	MD3	7	DQ3
	MD4	209	MD4	8	DQ4
	MD5	210	MD5	10	DQ5
	MD6	211	MD6	11	DQ6
	MD7	212	MD7	13	DQ7
	MD8	213	MD8	42	DQ8
	MD9	214	MD9	44	DQ9
	MD10	217	MD10	45	DQ10
	MD11	218	MD11	47	DQ11
	MD12	219	MD12	48	DQ12
	MD13	222	MD13	50	DQ13
15	MD14	223	MD14	51	DQ14
	MD15	224	MD15	53	DQ15
	MA0	256	MA0	23	A0
	MA1	255	MA1	24	A1
	MA2	254	MA2	25	A2
	MA3	253	MA3	26	A3
	MA4	252	MA4	29	A4
	MA5	251	MA5	30	A5
	MA6	250	MA6	31	A6
	MA7	247	MA7	32	A7
MA8	246	MA8	33	A8	
MA9	245	MA9	34	A9	
MA10	244	MA10	22	A10	
MA11	243	MA11	35	A11	
MA12	242	MA12	36	NC	
MA13	241	MA13	21	A12	
MA14	240	MA14	20	A13	

TC	IC3405/RTSC		SIGNAL NAME	IC50003/AV DEC	
	Port Name	Pin No		Pin No	Port Name
16	STD0	40	STD0	88	STD0
	STD1	39	STD1	87	STD1
	STD2	38	STD2	86	STD2
	STD3	37	STD3	85	STD3
	STD4	36	STD4	84	STD4
	STD5	35	STD5	83	STD5
	STD6	34	STD6	82	STD6
STD7	33	STD7	81	STD7	

TC	IC37002/8bit CONVERTER		SIGNAL NAME	IC37001/DV DEC	
	Port Name	Pin No		Pin No	Port Name
22	D0	6	R656DD0	49	D0
	D1	7	R656DD1	48	D1
	D2	8	R656DD2	45	D2
	D3	9	R656DD3	44	D3
	D4	10	R656DD4	42	D4
	D5	11	R656DD5	41	D5
	D6	12	R656DD6	39	D6
D7	13	R656DD7	38	D7	

TC	IC50003/AV DEC		SIGNAL NAME	IC50012/DV I/O	
	Port Name	Pin No		Pin No	Port Name
24	VDOUT0	140	R656DD0	2	I0
	VDOUT1	141	R656DD1	3	I1
	VDOUT2	142	R656DD2	4	I2
	VDOUT3	143	R656DD3	5	I3
	VDOUT4	145	R656DD4	6	I4
	VDOUT5	146	R656DD5	7	I5
	VDOUT6	147	R656DD6	8	I6
VDOUT7	149	R656DD7	9	I7	

TC	IC6705/16bit BUFFER		SIGNAL NAME	IC6802/PC CARD	
	Port Name	Pin No		Pin No	Port Name
26	4Y4	23	AP0	5	SA0
	4Y3	22	AP1	4	SA1
	4Y2	20	AP2	3	SA2
	4Y1	19	AP3	2	SA3
	3Y4	17	AP4	1	SA4
	3Y3	16	AP5	64	SA5
	3Y2	14	AP6	63	SA6
	3Y1	13	AP7	62	SA7
	2Y4	12	AP8	61	SA8
	2Y3	11	AP9	60	SA9
	2Y2	9	AP11	59	SA11
	2Y1	8	AP25	58	SA25

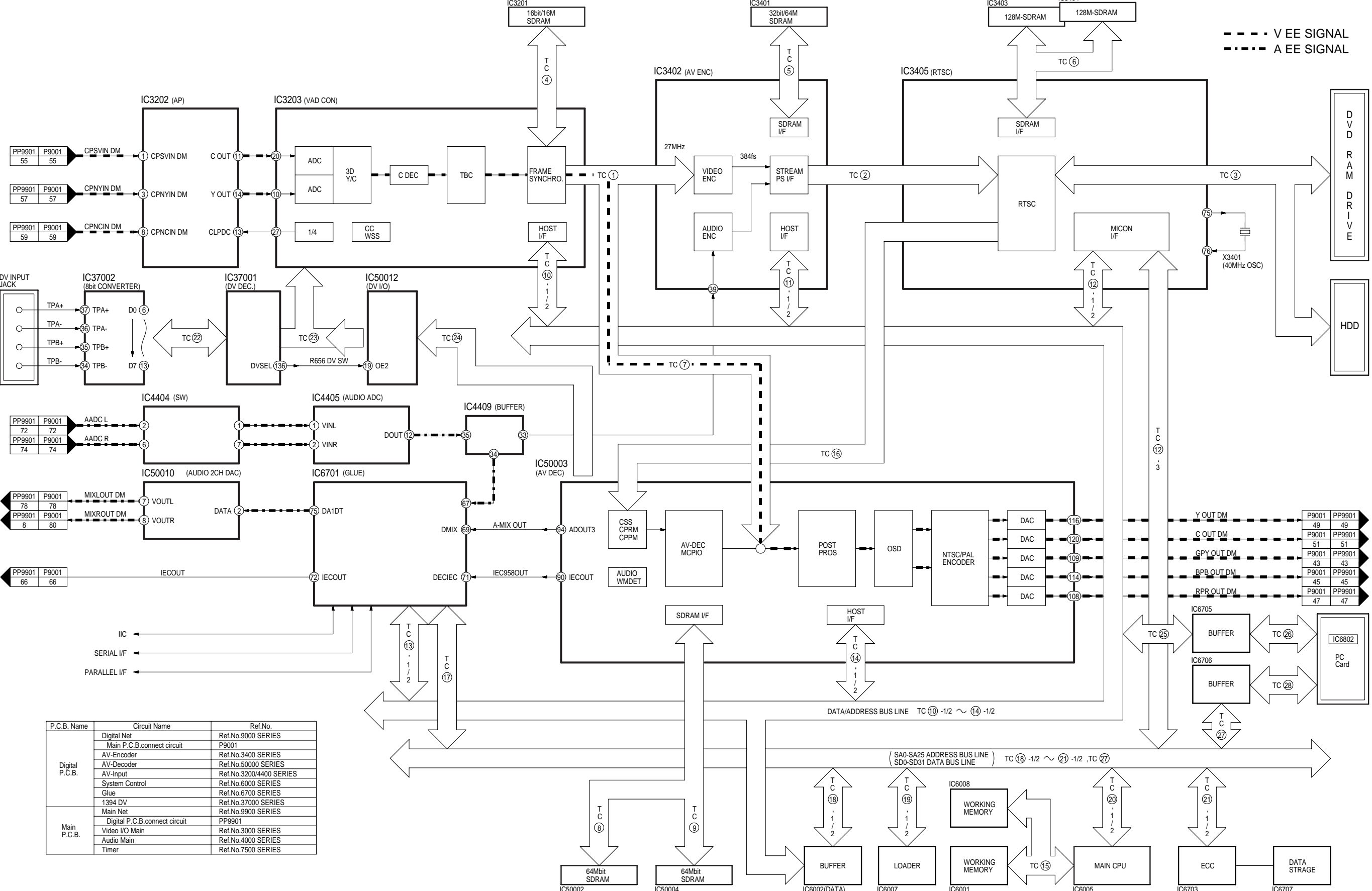
TC	IC6706/DATA BUFFER		SIGNAL NAME	IC6802/PC CARD	
	Port Name	Pin No		Pin No	Port Name
28	A1	3	DP16	19	SD0
	A2	4	DP17	18	SD1
	A3	5	DP18	17	SD2
	A4	6	DP19	16	SD3
	A5	7	DP20	14	SD4
	A6	8	DP21	13	SD5
	A7	9	DP22	12	SD6
	A8	10	DP23	11	SD7

TC	23-1		23-2		23-3	
SIGNAL NAME	IC50012/DV I/O		IC3203/VAD CON		IC37001/DV DEC	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
R656DD0	18	O0	155	R656IN0	145	REC656OUT0
R656DD1	17	O1	154	R656IN1	144	REC656OUT1
R656DD2	16	O2	153	R656IN2	143	REC656OUT2
R656DD3	15	O3	152	R656IN3	142	REC656OUT3
R656DD4	14	O4	151	R656IN4	140	REC656OUT4
R656DD5	13	O5	150	R656IN5	139	REC656OUT5
R656DD6	12	O6	149	R656IN6	138	REC656OUT6
R656DD7	11	O7	148	R656IN7	137	REC656OUT7

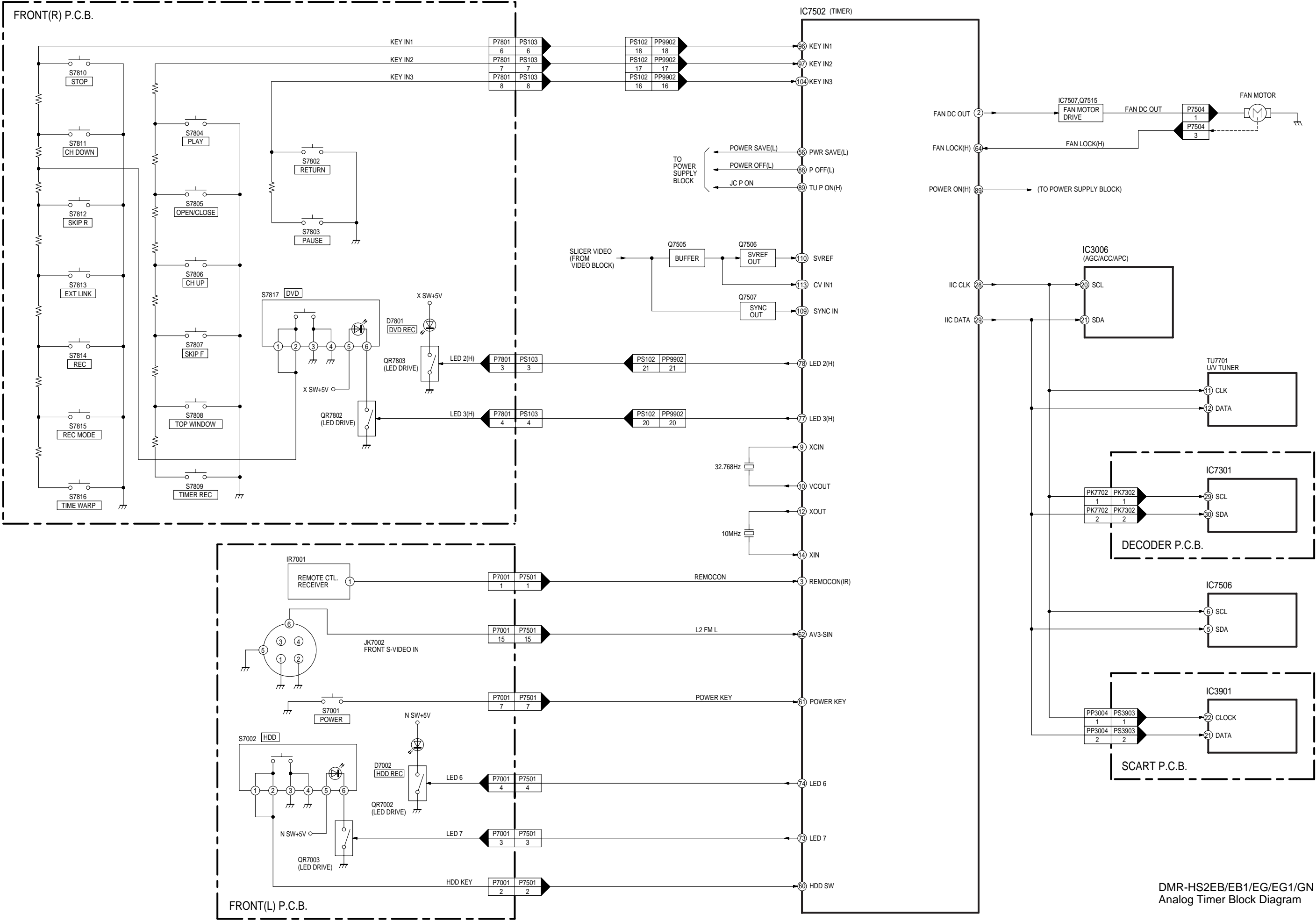
TC	12-3		17		18-1		19-1		20-1		21-1		25	
SIGNAL NAME	IC3405/RTSC		IC6701/GLUE		IC6003/BUFFER		IC6007/LOADER		IC6005/MAIN CPU		IC6703/ECC		IC6705/BUFFER	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SA0	-	-	-	-	-	-	-	-	38	SA0	-	-	-	-
SA1	-	-	-	-	26	4A4	11	A0	37	SA1	-	-	26	4A4
SA2	-	-	-	-	27	4A3	10	A1	36	SA2	11	A2	27	4A3
SA3	-	-	-	-	29	4A2	9	A2	35	SA3	12	A3	29	4A2
SA4	-	-	-	-	30	4A1	8	A3	34	SA4	13	A4	30	4A1
SA5	-	-	-	-	32	3A4	7	A4	33	SA5	-	-	32	3A4
SA6	-	-	-	-	33	3A3	6	A5	32	SA6	-	-	33	3A3
SA7	-	-	-	-	35	3A2	5	A6	31	SA7	-	-	35	3A2
SA8	-	-	-	-	-	-	4	A7	30	SA8	-	-	36	3A1
SA9	65	HMADR9	-	-	-	-	42	A8	29	SA9	-	-	37	2A4
SA10	66	HMADR10	-	-	-	-	41	A9	28	SA10	-	-	38	2A3
SA11	67	HMADR11	-	-	-	-	40	A10	25	SA11	-	-	-	-
SA12	68	HMADR12	-	-	-	-	39	A11	24	SA12	-	-	40	2A2
SA13	69	HMADR13	-	-	-	-	38	A12	23	SA13	-	-	-	-
SA14	70	HMADR14	-	-	-	-	37	A13	21	SA14	-	-	-	-
SA15	71	HMADR15	-	-	-	-	36	A14	20	SA15	-	-	-	-
SA16	72	HMADR16	-	-	-	-	35	A15	19	SA16	-	-	-	-
SA17	73	HMADR17	-	-	-	-	34	A16	17	SA17	-	-	-	-
SA18	-	-	-	-	-	-	3	A17	16	SA18	-	-	-	-
SA19	-	-	105	SA19	-	-	-	-	15	SA19	-	-	-	-
SA20	-	-	-	-	-	-	-	-	14	SA20	-	-	-	-
SA21	-	-	-	-	-	-	-	-	13	SA21	-	-	-	-
SA22	-	-	-	-	-	-	-	-	12	SA22	-	-	-	-
SA23	-	-	106	SA23	-	-	-	-	11	SA23	-	-	-	-
SA24	-	-	107	SA24	-	-	-	-	9	SA24	14	A24	-	-
SA25	-	-	108	SA25	-	-	-	-	8	SA25	-	-	-	-

TC	18-2		19-2		20-2		21-2		27	
SIGNAL NAME	IC6002/BUFFER		IC6007/LOADER		IC6005/MAIN CPU		IC6703/ECC		IC6706/DATA BUFFER	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SD0	-	-	-	-	119	SD0	39	SD0	-	-
SD1	-	-	-	-	118	SD1	38	SD1	-	-
SD2	-	-	-	-	117	SD2	37	SD2	-	-
SD3	-	-	-	-	116	SD3	36	SD3	-	-
SD4	-	-	-	-	114	SD4	34	SD4	-	-
SD5	-	-	-	-	113	SD5	33	SD5	-	-
SD6	-	-	-	-	112	SD6	32	SD6	-	-
SD7	-	-	-	-	111	SD7	31	SD7	-	-
SD8	-	-	-	-	109	SD8	29	SD8	-	-
SD9	-	-	-	-	108	SD9	28	SD9	-	-
SD10	-	-	-	-	107	SD10	27	SD10	-	-
SD11	-	-	-	-	105	SD11	26	SD11	-	-
SD12	-	-	-	-	104	SD12	24	SD12	-	-
SD13	-	-	-	-	103	SD13	23	SD13	-	-
SD14	-	-	-	-	101	SD14	22	SD14	-	-
SD15	-	-	-	-	100	SD15	21	SD15	-	-
SD16	2	1B1	15	D0	99	SD16	-	-	21	B1
SD17	3	1B2	17	D1	98	SD17	-	-	20	B2
SD18	5	1B3	19	D2	96	SD18	-	-	19	B3
SD19	6	1B4	21	D3	95	SD19	-	-	18	B4
SD20	8	1B5	24	D4	93	SD20	-	-	17	B5
SD21	9	1B6	26	D5	92	SD21	-	-	16	B6
SD22	11	1B7	28	D6	91	SD22	-	-	15	B7
SD23	12	1B8	30	D7	90	SD23	-	-	14	B8
SD24	13	2B1	16	D8	88	SD24	-	-	-	-
SD25	14	2B2	18	D9	87	SD25	-	-	-	-
SD26	16	2B3	20	D10	86	SD26	-	-	-	-
SD27	17	2B4	22	D11	85	SD27	-	-	-	-
SD28	19	2B5	25	D12	84	SD28	-	-	-	-
SD29	20	2B6	27	D13	83	SD29	-	-	-	-
SD30	22	2B7	29	D14	81	SD30	-	-	-	-
SD31	23	2B8	31	D15	80	SD31	-	-	-	-

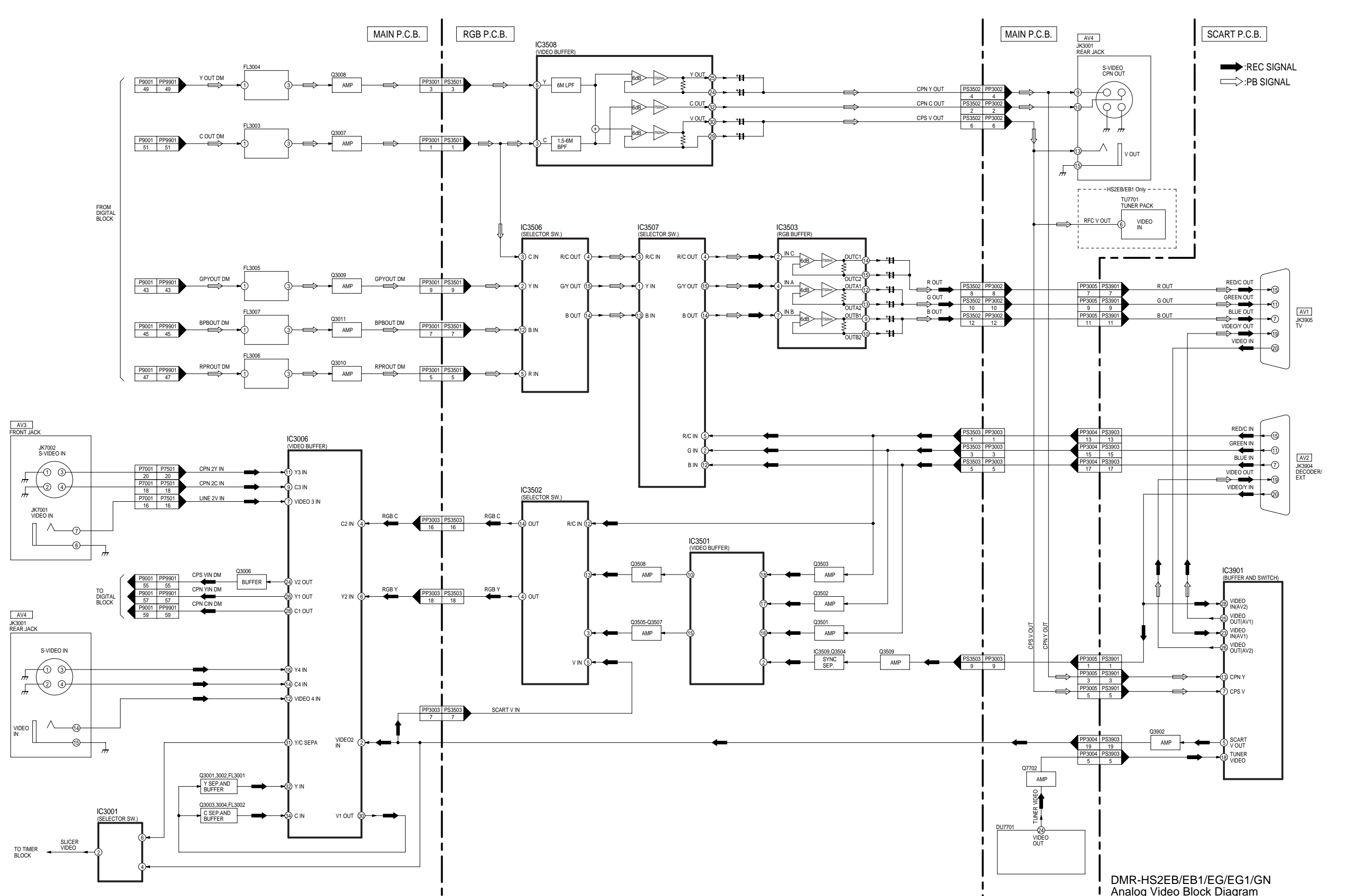
--- V EE SIGNAL
 - - - A EE SIGNAL



DMR-HS2EB/EB1/EG/EG1/GN
 Digital Section Block Diagram(1)



DMR-HS2EB/EB1/EG/EG1/GN Analog Timer Block Diagram



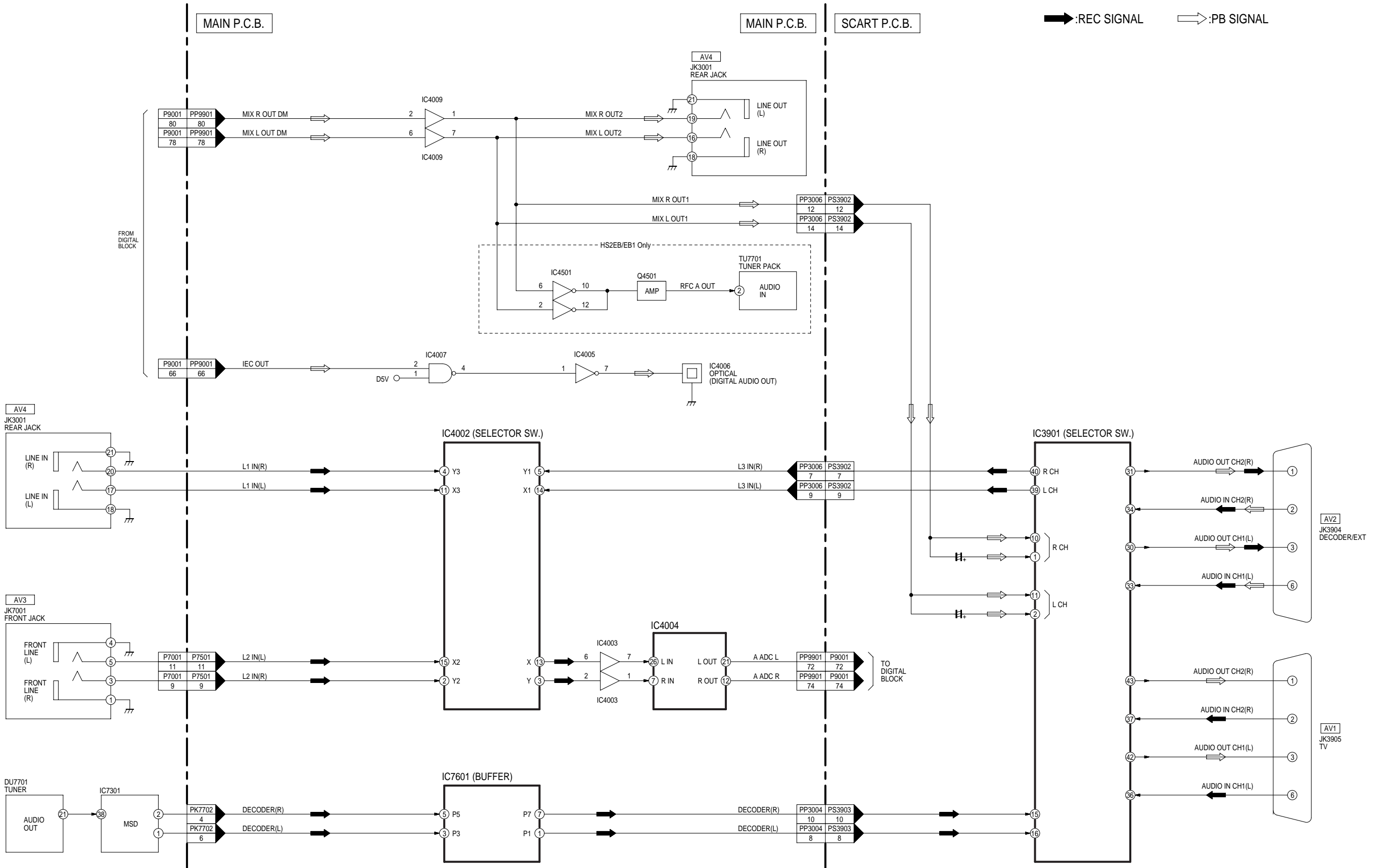
DMR-HS2EB/EB1/EG/EG1/GN
 Analog Video Block Diagram

MAIN P.C.B.

MAIN P.C.B.

SCART P.C.B.

➡:REC SIGNAL ⇨:PB SIGNAL



DMR-HS2EB/EB1/EG/EG1/GN Analog Audio Block Diagram

23. D+5V

Ref. No.	Pin. No.	Circuit Name
IC6802	10,15,47	PC CARD P.C.B.
IC6803	7,18,31,42	
IC6804	5	
IC6805	8	
IC6807	8	

24. D+3V

Ref. No.	Pin. No.	Circuit Name
IC37003	12,31,43	1394 D/V (Digital)
IC37008	5	
IC37011	5	

18. D+3.3V

Ref. No.	Pin. No.	Circuit Name
IC3201	1,7,13	AV Input (Digital)
	25,34,38,44	
IC4406	5	
IC4407	5	
IC4408	8	
IC4409	15,30	
IC4410	5	
IC3203	31,38,45	
	52,58,65	
	71,78,84	
	91,108,119	
	130,137,145	
	159,166,179	
IC3401	1,3,9	AV ENC. (Digital)
	15,29,35	
	41,43,49	
	55,75,81	
	IC3402	
IC3402	46,50,57	
	66,75,83	
	91,100,110	
	118,126,132	
	139,145,152	
	160,167,172	
	181,185,192	
	199,202,205	
IC3403	1,3,9	
	14,27,43,49	
IC3404	1,3,9	
	14,27,43,49	
IC3405	7,15,31	
	43,64,81	
	90,100,108	
	117,131,146	
	156,168,178	
IC50001	1,11	AV DEC. (Digital)
	14,19	
IC50002	1,3,9,14	
	27,43,49	
IC50004	1,3,9,14	
	27,43,49	
IC50003	5,15,26	
	39,52,58	
	66,75,89	
	103,131,144	
	152,157,165	
	175,184	
194,203		
IC50005	5	
IC50006	5	
IC50009	6,10,12	
IC50012	20	
IC50013	5	
IC50014	14	

18. D+3.3V

Ref. No.	Pin. No.	Circuit Name	
IC6001, IC6008	1,3,9,14	Syscon (Digital)	
	27,43,49		
IC6002, IC6003	7,18		
	31,42		
IC6005	22,27,47		
	61,82,102		
	115,162,174		
	216,221,226		
IC6007	239,248		
	23		
IC6701	1,20,40,81	GLUE (Digital)	
	100,120		
IC6702	5		
IC6703	8,30		
IC6705	7,18,31,42		
IC6706	23,24		
IC6707	12,37		
IC6708	5		
IC37001	10,19,29,37		1394 D/V (Digital)
	43,50,56,69		
	76,87,91,108		
	118,132,141		
	153,171,183		
	190,197,207		
	,216		
	IC37002	25,26,61,62	
	IC37006	19	
	IC37009	5	
IC37007	16		
IC37010	5		

19. ANA+3.3V

Ref. No.	Pin. No.	Circuit Name
IC3202	10	AV Input (Digital)
IC3203	2,4,11,12	
		14,21,26,30
IC50003	105,112,118	AV DEC. (Digital)
IC3402	30	AV ENC. (Digital)
IC37002	30,31,42	1394 D/V (Digital)
	51,52,56	

20. D+5V

Ref. No.	Pin. No.	Circuit Name
IC6706	1	GLUE (Digital)
IC50015	1,3	AV DEC. (Digital)

21. X SW+15.5V

Ref. No.	Pin. No.	Circuit Name
IC7507	8	Timer (Main)

22. AU+9V

Ref. No.	Pin. No.	Circuit Name
IC4004	13,31	Audio Main (Main)

1. PS+12V

Ref. No.	Pin. No.	Circuit Name
IC3901	14	Scart P.C.B.

2. REG.+12V

Ref. No.	Pin. No.	Circuit Name
IC7503	9	Timer (Main)
IC7601	8	Main Net (Main)

3. REG. AU+12V

Ref. No.	Pin. No.	Circuit Name
IC4002	16	Audio Main (Main)
IC4003	8	
IC4008	8	
IC4009	8	
IC4012	8	
IC4501	5	

4. BOOSTER.+5V

Ref. No.	Pin. No.	Circuit Name
IC3901	29	Scart P.C.B.

5. REG.+5V

Ref. No.	Pin. No.	Circuit Name
IC3501	11,12	RGB P.C.B.
IC3509	5	

6. REG. PS+5V

Ref. No.	Pin. No.	Circuit Name
IC3901	24	Scart P.C.B.
IC3502,3503	16	RGB P.C.B.
IC3506,3507	16	
IC3508	6,11	

7. REG. T PS+5V

Ref. No.	Pin. No.	Circuit Name
IC7501	19,60	Timer (Main)

8. REG. JC+5V

Ref. No.	Pin. No.	Circuit Name
IC3001	3	Video I/O (Main)
IC3006	1	

9. X SW+5V

Ref. No.	Pin. No.	Circuit Name
IC7502	15,34,69,105 106,108,112	Timer (Main)
IC7504	1	
IC7506	8	
IC7508	5	

10. D+3.3V

Ref. No.	Pin. No.	Circuit Name
IC6801	8	PC CARD P.C.B.
IC7505	2	Timer (Main)

11. D+5V

Ref. No.	Pin. No.	Circuit Name
IC4004	17	Audio Main (Main)
IC4005	8	
IC4006	2	
IC4007	1,5	

12. AU+5V

Ref. No.	Pin. No.	Circuit Name
IC4404	8	AV Input (Digital)
IC4405	4,5	
IC50010	6	AV DEC. (Digital)

13. DAC+3.3V

Ref. No.	Pin. No.	Circuit Name
IC4405	14	AV Input (Digital)
IC50010	5	AV DEC. (Digital)

14. ANA+5V

Ref. No.	Pin. No.	Circuit Name
IC3202	5	AV Input (Digital)

15. D+1.8V

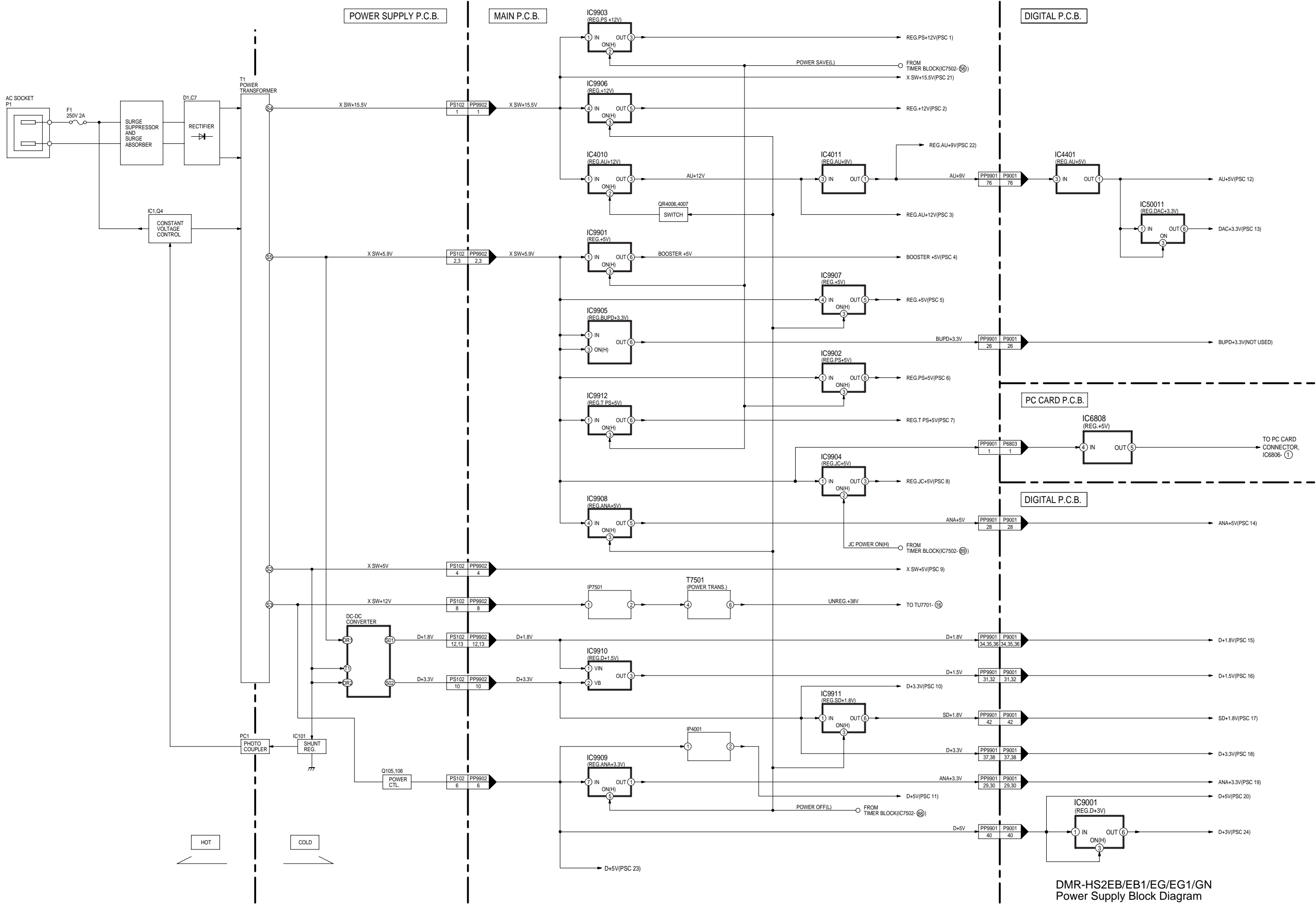
Ref. No.	Pin. No.	Circuit Name
IC3203	39,64 88,109 131,156	AV Input (Digital)
IC3402	7,19,32 44,59,71 84,96,111 123,136,148 163,175 188,198	AV ENC. (Digital)
IC3405	26,78 138,193	
IC37001	17,47,64,81 92,126,133 146,179,212	1394 D/V (Digital)

16. D+1.5V

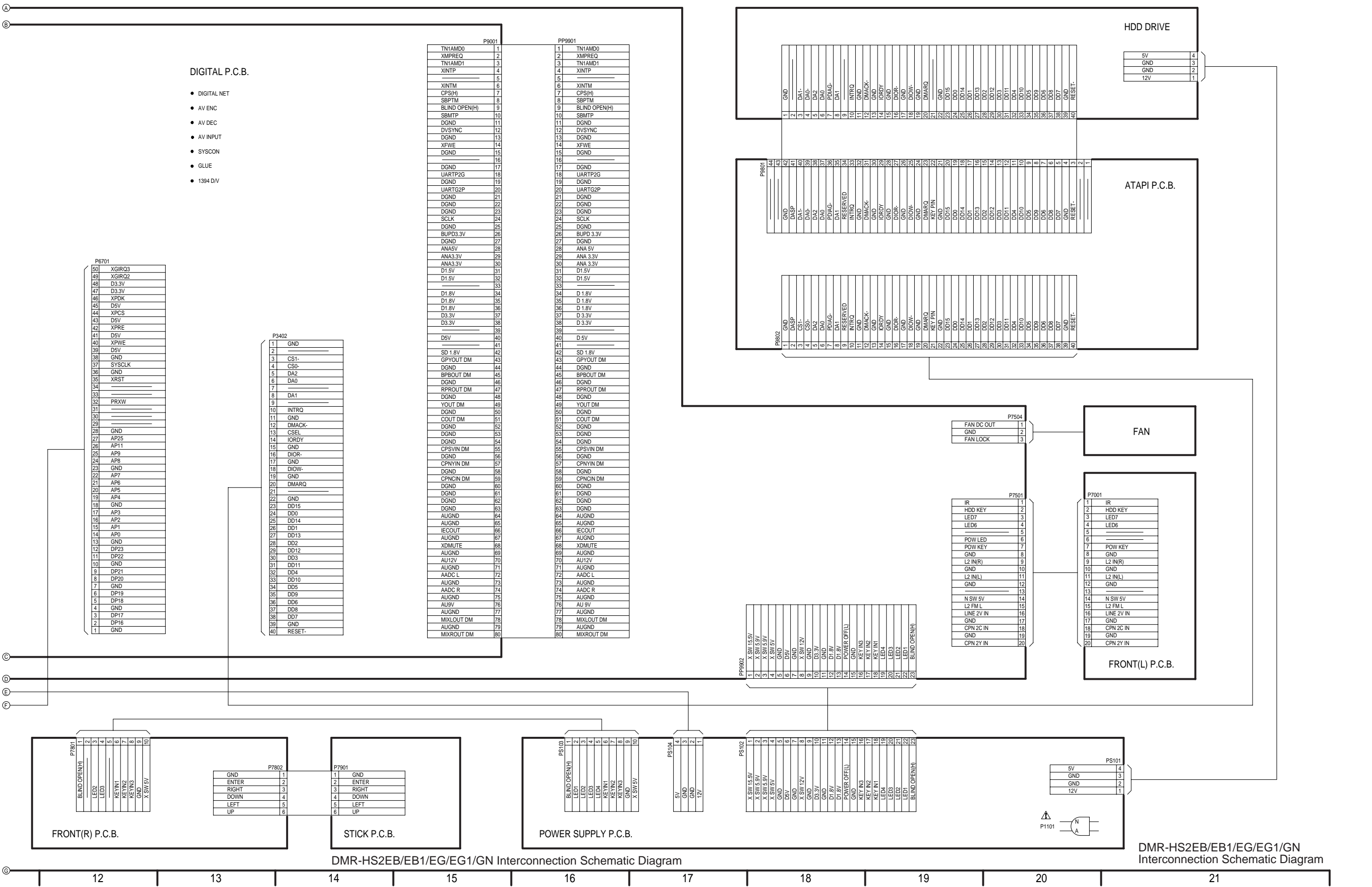
Ref. No.	Pin. No.	Circuit Name
IC50003	12,30,48 69,98,127 135,172,186	AV DEC. (Digital)

17. SD+1.8V

Ref. No.	Pin. No.	Circuit Name
IC6005	18,46,66 94,106,163 184,220,238	Syscon (Digital)



DMR-HS2EB/EB1/EG/EG1/GN
Power Supply Block Diagram



DMR-HS2EB/EB1/EG/EG1/GN Interconnection Schematic Diagram

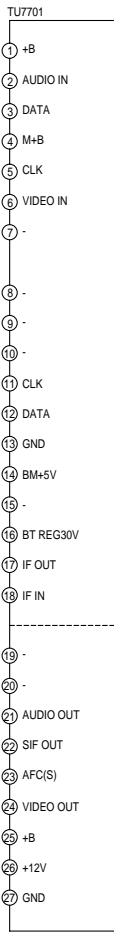
DIGITAL JIG

P8002	1	SEL
	2	SEL
	3	MSDTX
	4	MSDRX
	5	D 3.3V
	6	XSCINTRQ
	7	SXMN103
	8	MMRXW
	9	MMXOE
	10	GND
	11	XMMCS7
	12	XMMCS6
	13	GND
	14	XMMCS5
	15	XMMCS4
	16	GND
	17	XMMCS3
	18	XMMCS2
	19	GND
	20	XMMCS1
	21	XMMCS0
	22	GND
	23	MMA25
	24	MMA24
	25	MMA23
	26	MMA22
	27	MMA21
	28	MMA20
	29	MMA19
	30	MMA18
	31	MMA17
	32	MMA16
	33	MMA15
	34	MMA14
	35	MMA13
	36	MMA12
	37	MMA11
	38	MMA10
	39	GND
	40	MMA9
	41	MMA8
	42	MMA7
	43	MMA6
	44	MMA5
	45	MMA4
	46	MMA3
	47	MMA2
	48	MMA1
	49	MMA0
	50	GND
	51	BW
	52	BW
	53	XNMI
	54	XRESET
	55	D3.3V
	56	SSYSCLK
	57	GND
	58	
	59	XMMDK
	60	GND
	61	MMXWE3
	62	MMXWE2
	63	GND
	64	MMXWE1
	65	MMXWE0
	66	GND
	67	MMD31
	68	MMD30
	69	MMD29
	70	MMD28
	71	MMD27
	72	MMD26
	73	MMD25
	74	MMD24
	75	MMD23
	76	MMD22
	77	MMD21
	78	MMD20
	79	MMD19
	80	MMD18
	81	MMD17
	82	MMD16
	83	GND
	84	MMD15
	85	MMD14
	86	MMD13
	87	MMD12
	88	MMD11
	89	MMD10
	90	MMD9
	91	MMD8
	92	MMD7
	93	MMD6
	94	MMD5
	95	MMD4
	96	MMD3
	97	MMD2
	98	MMD1
	99	MMD0
	100	GND

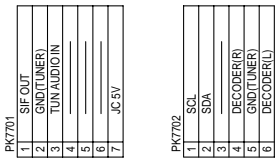
P6001	1	XDIAG
	2	XRESET
	3	MSORX
	4	GND
	5	D 3.3V
	6	MSOTX

P6003	1	
	2	D3.3V
	3	XRESET
	4	GND
	5	TDI
	6	GND
	7	TD0
	8	GND
	9	TMS
	10	GND
	11	GND
	12	TCK
	13	GND
	14	GND
	15	TRCD0
	16	GND
	17	TRCD1
	18	GND
	19	TRCD2
	20	GND
	21	TRCD3
	22	GND
	23	TRCD4
	24	GND
	25	TRCD5
	26	GND
	27	TRCD6
	28	GND
	29	TRCD7
	30	GND
	31	TRCST
	32	GND
	33	TRSTMOD
	34	GND
	35	EXTRG
	36	GND
	37	GND
	38	TRCLK
	39	D3.3V
	40	D3.3V

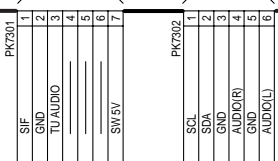
U/V TUNER



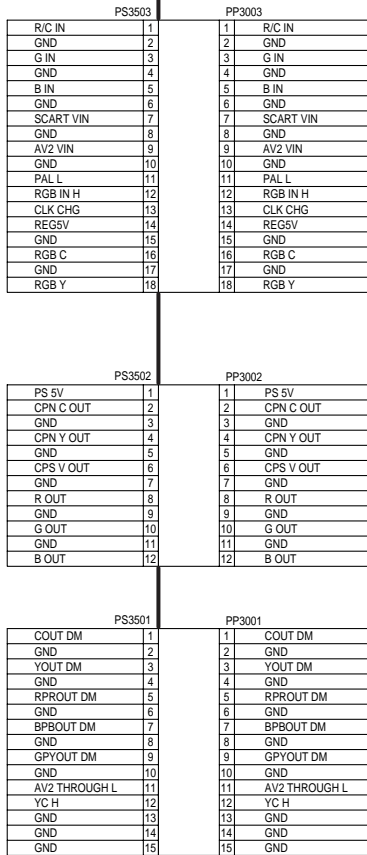
VIF DECODER P.C.B.



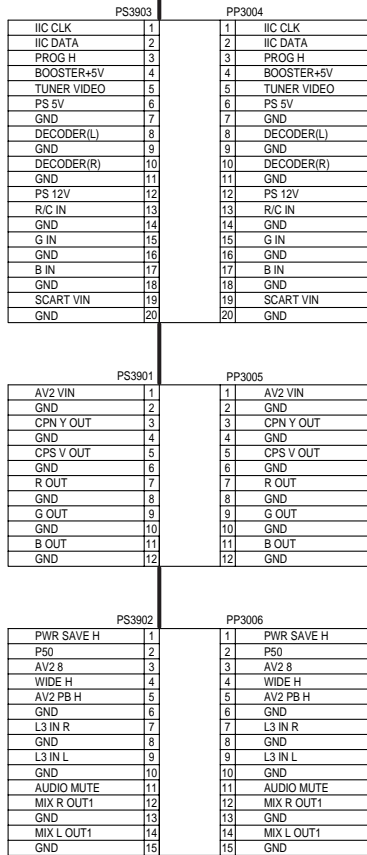
NICAM/DECODER P.C.B.



RGB P.C.B.

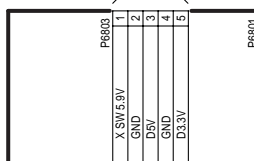


SCART P.C.B.

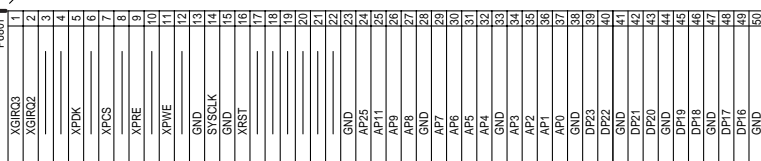


MAIN P.C.B.

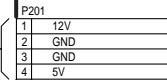
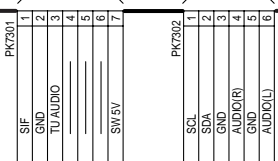
- MAIN NET
- VIDEO I/O
- AUDIO MAIN
- TIMER



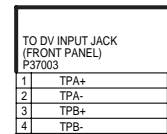
PC CARD P.C.B.



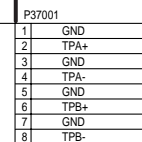
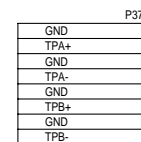
NICAM/DECODER P.C.B.



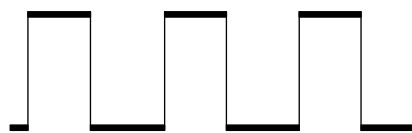
DVD RAM DRIVE



DV INPUT JACK P.C.B.

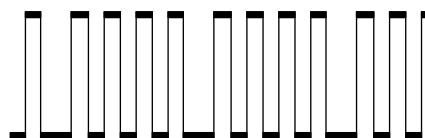


WF No. P9001-43 (REC/PLAY)



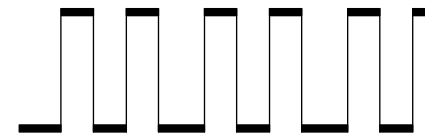
0.6Vp-p(20usec/div)

WF No. P9001-45 (REC/PLAY)



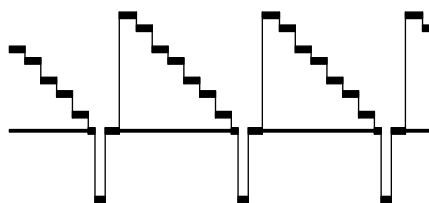
0.6Vp-p(20usec/div)

WF No. P9001-47 (REC/PLAY)



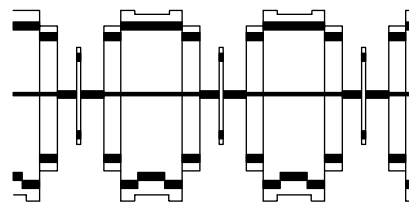
0.6Vp-p(20usec/div)

WF No. P9001-49 (REC/PLAY)



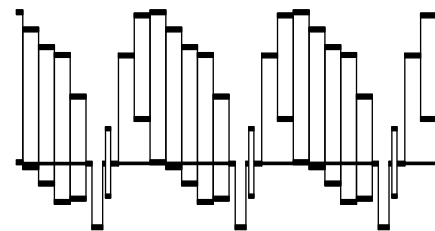
0.9Vp-p(20usec/div)

WF No. P9001-51 (REC/PLAY)



1.0Vp-p(20usec/div)

WF No. P9001-55 (REC/PLAY)



1.0Vp-p(20usec/div)

WF No. P9001-72 (REC/PLAY)



0.5Vp-p(2msec/div)

WF No. P9001-74 (REC/PLAY)



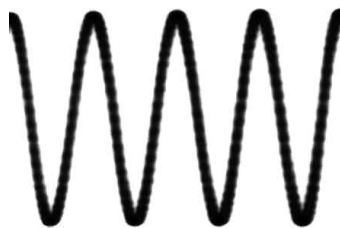
0.5Vp-p(2msec/div)

WF No. P9001-78 (REC/PLAY)



0.6Vp-p(1msec/div)

WF No. P9001-80 (REC/PLAY)



0.6Vp-p(1msec/div)

Ref No.	P9001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	5.0	0	5.0	0	4.9	3.1	5.0	-0.1	4.9	0	0.2	0	4.8	0	2.1	0	5.0	0	5.0
PLAY	0	5.0	0	5.0	0	4.9	3.2	5.0	-0.1	4.9	0	0.2	0	4.8	0	2.1	0	5.0	0	5.0
STOP	0	5.0	0	5.0	0	4.9	3.2	5.0	-0.1	4.9	0	0.2	0	4.8	0	2.1	0	5.0	0	5.0
Ref No.	P9001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	0	0	0	4.7	0	3.7	0	5.0	3.3	3.3	1.5	1.5	0	1.7	1.7	1.7	3.2	3.2	5.0	5.0
PLAY	0	0	0	4.7	0	3.6	0	5.0	3.3	3.3	1.5	1.5	0	1.7	1.7	1.7	3.2	3.2	5.0	5.0
STOP	0	0	0	4.7	0	3.6	0	5.0	3.3	3.3	1.5	1.5	0	1.7	1.7	1.7	3.2	3.2	5.0	5.0
Ref No.	P9001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0	1.8	0.9	0	0.9	0	0.9	0	1.2	0	1.8	0	0	0	3.1	0	3.1	0	2.0	0
PLAY	0	1.8	0.9	0	0.9	0	0.9	0	1.2	0	1.8	0	0	0	3.1	0	3.1	0	2.0	0
STOP	0	1.8	0.9	0	0.9	0	0.9	0	1.2	0	1.8	0	0	0	3.1	0	3.1	0	2.0	0
Ref No.	P9001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	0	0	0	0	0	1.5	0	2.2	0	12.0	0	6.0	0	6.0	0	9.1	0	2.5	0	2.5
PLAY	0	0	0	0	0	1.6	0	2.2	0	12.0	0	6.0	0	6.0	0	9.1	0	2.5	0	2.5
STOP	0	0	0	0	0	1.6	0	2.2	0	12.0	0	6.0	0	6.0	0	9.1	0	2.5	0	2.5

Ref No.	IC3901																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
REC	5.6	5.6	0.1	0.1	1.5	0	2.2	0	0	5.6	5.6	4.9	2.2	12.0	5.6	5.6	0	1.7	3.6	0	
PLAY	5.6	5.6	0.1	0.1	1.6	0	2.2	0	0	5.6	5.6	4.9	2.2	12.0	5.6	5.6	0	1.8	3.6	12.0	
STOP	5.6	5.6	0.1	0	1.6	0	2.2	0	0	5.6	5.6	4.9	2.2	12.0	5.6	5.6	0	1.8	3.6	0	
Ref No.	IC3901																				
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
REC	4.2	4.4	1.8	4.9	2.0	2.0	0	1.8	4.9	4.9	4.9	0	5.6	5.6	0.1	5.6	5.6	0	4.9	4.9	
PLAY	4.2	4.4	1.8	4.9	2.0	2.0	0	1.8	5.0	4.9	4.9	0	5.6	5.6	0.1	5.6	5.6	0	4.9	4.9	
STOP	4.2	4.4	1.8	4.9	2.0	2.0	0	1.8	5.0	4.9	4.9	0	5.6	5.6	0.1	5.6	5.6	0	4.9	4.9	
Ref No.	IC3901																				
MODE	41	42	43	44																	
REC	0	4.9	4.9	0																	
PLAY	0	4.9	4.9	0																	
STOP	0	4.9	4.9	0																	
Ref No.	Q3902				Q3905				Q3906				Q3907				Q3908				
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B		
REC	2.2	0	0		0.6	0.5	0		4.9	0.4	4.9		0	12.0	0		4.9	0.1	4.9		
PLAY	2.1	0	1.6		0.1	0.1	0		4.9	0.4	4.9		0	12.0	0		4.9	0	5.0		
STOP	2.2	0	1.4		0	0	0		4.9	0	4.9		0	12.0	0		4.9	0	5.0		
Ref No.	Q3909				Q3910																
MODE	E	C	B		E	C	B														
REC	0	0	-0.6		0	0	0														
PLAY	0	0	-0.1		0	0	-0.1														
STOP	0	0	0		0	0	-0.1														
Ref No.	QR3901				QR3902				QR3903				QR3904				QR3905				
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B		
REC	0	0	0		0	0	0		0	0	0		0	4.1	0		0	0	4.1		
PLAY	0	0	4.2		0	0	4.7		0	4.0	0		0	4.1	0		0	0	4.1		
STOP	0	0	0		0	0	0		0	0	0		0	4.1	0		0	0	4.1		
Ref No.	QR3906				QR3907				QR3908				QR3909				QR3910				
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B		
REC	0	12.0	0		12.0	0	12.0		0	0	0		0	5.0	0		0	3.5	0		
PLAY	0	0	4.0		0	11.4	12.0		0	0	0		0	5.0	0		0	0	12.0		
STOP	0	12.0	0		12.0	0	12.0		-0.1	0	0		0	5.0	0		0	3.5	0		
Ref No.	QR3911				QR3912				QR3913				QR3914				QR3915				
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B		
REC	0	0	2.2		4.9	4.9	0		0	4.9	0		0	4.2	0		0.4	4.4	0		
PLAY	0	4.9	0		4.9	4.9	4.9		0	4.9	0		0.2	4.2	0		0	4.4	0		
STOP	0	0	3.5		4.9	4.9	0		0	4.9	0		0.1	4.8	0		0	4.8	0		

Ref No.	IC4004																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	4.5	0	4.5	4.5	0.2	4.5	4.5	4.5	4.5	4.5	4.5	9.0	0	4.8	5.0	5.1	0	0	0
PLAY	0	4.5	0	4.5	4.5	0.2	4.5	4.5	4.5	4.5	4.5	4.5	9.0	0	4.8	5.0	5.1	0	0	0
STOP	0	4.5	0	4.5	4.5	0.2	4.5	4.5	4.5	4.5	4.5	4.5	9.0	0	4.8	5.0	5.1	0	0	0
Ref No.	IC4004																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	4.5	4.5	4.5	4.5	4.5	4.5	0	4.5	4.5	0.6	9.0	4.5								
PLAY	4.5	4.5	4.5	4.5	4.5	4.5	0	4.5	4.5	0.6	9.0	4.5								
STOP	4.5	4.5	4.5	4.5	4.5	4.5	0	4.5	4.5	0.6	9.0	4.5								
Ref No.	IC4005										IC4007									
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5					
REC	2.5	5.0	0	0	0	0	0	5.0			5.0	1.6	0	2.5	5.0					
PLAY	2.5	5.0	0	0	5.0	0	2.5	5.0			5.0	1.6	0	2.4	5.0					
STOP	2.5	5.0	0	0	0	0	0	5.0			5.0	1.6	0	2.5	5.0					
Ref No.	IC4008										IC4009									
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5	6	7	8		
REC	6.0	6.0	6.0	0	6.0	6.0	6.0	11.9			6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		
PLAY	6.0	6.0	6.0	0	6.0	6.0	6.0	11.9			6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		
STOP	6.0	6.0	6.0	0	6.0	6.0	6.0	11.9			6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		
Ref No.	IC4010					IC4011					IC4012									
MODE	1	2	3	4	5		1	2	3		1	2	3	4	5	6	7	8		
REC	15.0	9.4	12.0	0	0		9.1	0	12.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		
PLAY	15.0	9.4	12.0	0	0		9.1	0	12.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		
STOP	14.5	9.2	12.0	0	0		9.1	0	12.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		
Ref No.	IC4501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
REC	0.6	0	0	0	12.0	0	12.0	0	0.6	5.6	0	0	0	0.3						
PLAY	0.6	0	0	0	12.0	0	12.0	0	0.6	5.6	0	5.5	0	0.3						
STOP	0.6	0	0	0	12.0	0	12.0	0	0.6	5.6	0	5.5	0	0.3						
Ref No.	IC7501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	-28.8	-28.8	-28.8	-26.1	-26.1	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	4.8	4.8	5.0	5.0	0	5.0	5.0	2.3
PLAY	-28.8	-28.8	-28.8	-26.1	-26.1	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	4.8	1.9	4.4	2.6	0	5.0	5.0	2.3
STOP	-28.8	-28.8	-28.8	-26.1	-26.1	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	4.7	0	4.8	4.8	0	5.0	5.0	2.3
Ref No.	IC7501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	2.3	0	-28.8	-28.8	-26.0	-26.0	-23.1	-26.0	-26.0	-20.0	-16.8	-29.0	-28.8	-26.0	-26.0	-26.0	-26.0	-23.2	-26.0	-18.0
PLAY	2.3	0	-28.8	-28.8	-26.0	-26.0	-23.1	-26.0	-26.0	-26.0	-17.0	-29.0	-28.8	-26.0	-26.0	-28.8	-28.8	-26.0	-23.2	-23.0
STOP	2.3	0	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	-29.0	-26.0	-20.0	-29.0	-28.0	-26.0	-23.1	-23.1	-26.0	-26.0	-23.1	-23.1
Ref No.	IC7501																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	-18.0	-12.1	-23.2	-15.0	-23.0	-15.0	-23.0	-12.1	-18.0	-12.1	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	-18.0	-18.0	-23.1	5.0
PLAY	-23.1	-14.0	-23.1	-23.1	-25.1	-20.0	-20.0	-20.0	-23.1	-20.0	-26.0	-28.8	-28.8	-28.8	-26.0	-28.8	-23.1	-18.0	-26.0	5.0
STOP	-23.1	-14.0	-20.1	-23.1	-23.1	-23.1	-23.1	-20.0	-23.1	-20.0	-23.1	-23.1	-20.0	-26.0	-26.0	-26.0	-20.1	-23.1	-28.0	5.0
Ref No.	IC7501																			
MODE	61	62	63	64																
REC	-29.0	-29.0	-29.0	-29.0																
PLAY	-29.0	-29.0	-29.0	-29.0																
STOP	-29.0	-29.0	-29.0	-29.0																
Ref No.	IC7502																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	4.7	2.1	4.7	5.0	5.0	4.8	0	0	1.5	1.2	4.8	2.2	0	2.1	4.8	4.8	5.0	5.0	0.3	4.7
PLAY	4.7	2.1	4.7	5.0	5.0	4.8	0	0	1.5	1.2	4.8	2.2	0	0	4.8	4.8	5.0	5.0	0	4.7
STOP	4.7	2.1	4.7	5.0	5.0	4.8	0	0	1.5	1.2	4.8	2.3	0	2.1	4.8	4.8	5.0	5.0	0	4.7
Ref No.	IC7502																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	0	0	0	0	0	0	0	4.8	4.8	0	1.9	1.6	1.7	4.8	0	0	0.3	5.0	5.0	4.8
PLAY	0	0	0	0	0	0	0	4.2	4.2	0	1.9	1.6	1.6	4.8	0	0	0	5.0	5.0	4.8
STOP	0	0	0	0	0	0	0	4.8	4.3	0	1.9	1.6	1.6	4.8	0	0	0	5.0	5.0	4.8
Ref No.	IC7502																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0	5.0	5.0	5.0	0	4.8	0	0	0	0	0	0	4.8	4.7	0	4.8	4.8	0	0	4.8
PLAY	0	2.5	2.5	4.4	0	4.8	0	0	0	0	0	0	4.8	0	4.7	4.8	4.8	0	0	4.8
STOP	0	5.0	4.8	4.8	0	4.8	0	0	0	0	0	0	4.8	0	4.7	4.8	4.8	0	0	4.8
Ref No.	IC7502																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	4.8	4.8	5.0	0	0	0	0	0	4.8	4.8	0	0	0	0	0	0	0	0	0	4.8
PLAY	4.8	4.8	5.0	0	0	0	0	0	3.9	4.8	0	0	0	0	0	0	0	0	0	4.8
STOP	4.8	4.8	5.0	0	0	0	0	0	4.8	4.8	0	0	0	0	0	0	0	0	0	4.8
Ref No.	IC7502																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	0	5.0	4.8	4.8	4.8	0.1	0.1	4.7	4.8	0	0	0	4.8	5.0	5.0	4.8	4.8	0	0	2.4
PLAY	0	4.9	4.8	4.8	4.8	0.1	0.1	4.7	4.8	0	0	0	1.9	4.8	4.9	4.8	4.8	0	0	2.4
STOP	0	5.0	4.8	4.7	4.8	0.1	0.1	4.7	4.8	0	0	0	4.9	5.0	4.8	4.8	4.8	0	0	2.4
Ref No.	IC7502																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116				
REC	0	0	0	4.8	4.8	4.8	5.0	4.8	2.0	1.3	0	4.8	2.0	0	2.2	5.0				
PLAY	0	0	0	4.8	4.8	4.8	5.0	4.8	1.1	1.3	0	4.8	1.1	0	2.2	0				
STOP	0	0	0	4.8	4.8	4.8	5.0	4.8	1.1	1.3	0	4.8	1.1	0	2.2	5.0				

Ref No.	QR3901			QR3902			QR3903			QR3904			QR3905		
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	0	0	0	0	0	0	0	0	0	0	0	4.1	0	0	4.1
PLAY	0	0	0	0	0	0	0	0	0	0	4.1	0	0	0	4.1
STOP	0	0	0	0	0	0	0	0	0	0	4.1	0	0	0	4.1
Ref No.	QR3906			QR3907			QR3908			QR3909			QR3910		
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	0	11.9	0	12.0	0.1	11.9	0	0	3.5	0	5.0	0	0	3.5	0
PLAY	0	11.9	0	12.0	0.5	11.9	0	0	3.5	0	4.9	0	0	0	11.5
STOP	0	11.9	0	12.0	-0.1	11.9	0	0	3.5	0	5.0	0	0	0	11.5
Ref No.	QR3911			QR3912			QR3913			QR3914			QR3915		
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	0	0	3.5	5.0	5.0	0	0	5.0	0.1	0.1	4.1	0	0.1	4.4	0
PLAY	0	4.9	0	5.0	5.0	4.9	0	5.0	0.1	0.2	4.1	0	0.5	4.4	0
STOP	0	4.9	0	5.0	5.0	4.9	0	5.0	0.1	-	4.1	0	-	4.4	0
Ref No.	QR4002			QR4003			QR4004			QR4005			QR4006		
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	0	0	4.7	0	0	2.2	0	5.1	0	0	5.0	0	0	0	4.5
PLAY	0	0	4.7	0	0	2.2	0	5.1	0	0	5.0	0	0	0	4.5
STOP	0	0	4.7	0	3.4	0	0	0	3.4	0	0	0	0	0	4.5
Ref No.	QR4007			QR4010			QR4011			QR4012			QR7501		
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	0	9.4	0	0	12.0	0	0	0	4.7	5.1	0	4.8	0	0	2.1
PLAY	0	9.4	0	0	0	4.7	0	12.0	0	5.1	0	4.8	0	0	2.1
STOP	0	9.4	0	0	0	4.7	0	12.0	0	5.1	0	4.8	0	0	2.1
Ref No.	QR7502			QR7701			QR7702								
	E	C	B	E	C	B	E	C	B						
REC	4.8	0	4.8	0	0	0	0	0	0						
PLAY	4.8	0	4.8	0	0	0	0	0	0						
STOP	4.8	0	4.8	0	0	0	0	0	0						

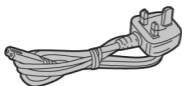
Ref No.	IC1								IC101											
MODE	1	2	3	4	5	6	7	8			K	R	A							
REC	0	0	0	0.2	0.4	3.1	0.1	0			3.6	2.4	0							
PLAY	0	0	0	0.2	0.4	3.1	0.1	0			3.6	2.4	0							
STOP	0	0	0	0.2	0	3.1	0.1	0			3.6	2.4	0							
Ref No.	IC301								IC302											
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5	6	7	8		
REC	2.8	1.2	1.2	0	12.4	11.5	1.7	1.7			11.6	2.9	3.0	0	1.2	1.2	4.7	12.4		
PLAY	2.8	1.2	1.2	0	1.7	1.7	11.5	12.4			11.6	2.9	3.0	0	1.2	1.2	4.5	12.4		
STOP	2.8	1.2	1.2	0	1.7	1.7	11.6	12.4			11.6	2.9	3.0	0	1.2	1.2	4.3	12.3		
Ref No.	Q1					Q2					Q4					Q101				
MODE	1	2	3	4	5			E	C	B			G	S	D			E	C	B
REC	0	0	0	0	0			0	0	0			0.1	670	3.2			0.6	0.6	2.7
PLAY	0	0	0	0	0			0	0	0			0.1	670	3.2			0.6	0.6	2.7
STOP	0	0	0	0	0			0	0	0			0.1	670	3.2			0.6	0.6	2.7
Ref No.	Q102			Q103			Q104			Q105										
MODE	E	C	B		E	C	B		E	C	B		1	2	3	4	5	6	7	8
REC	5.2	0.4	5.1		0	5.2	0.4		0	0	0.7		5.1	5.1	5.1	8.8	5.2	5.2	5.2	5.2
PLAY	5.2	0.4	5.1		0	5.2	0.4		0	0	0.7		5.1	5.1	5.1	8.8	5.2	5.2	5.2	5.2
STOP	5.2	0.4	5.2		0	5.2	0.4		0	0	0.7		5.1	5.1	5.1	8.8	5.2	5.2	5.2	5.2
Ref No.	Q106			Q107								Q301			Q302					
MODE	E	C	B		1	2	3	4	5	6	7	8		E	C	B		E	C	B
REC	8.9	0	9.1		12.4	12.4	12.4	6.5	12.4	12.4	12.4	12.4		2.0	4.4	7.1		3.5	4.1	8.9
PLAY	12.4	12.4	0		12.4	12.4	12.4	6.5	12.4	12.4	12.4	12.4		2.0	4.4	7.1		3.5	4.1	8.6
STOP	12.1	12.1	0		12.4	12.4	12.4	6.5	12.4	12.4	12.4	12.4		2.0	4.4	6.9		3.5	4.2	8.6
Ref No.	Q303			Q304			Q305			Q306			Q307							
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	7.1	12.4	7.3		6.9	0	7.1		8.8	12.4	9.1		8.5	0	8.7		12.4	7.3	12.0	
PLAY	7.1	12.4	7.2		7.1	0	7.2		8.7	12.4	8.9		8.6	0	8.9		12.4	7.1	12.0	
STOP	12.4	7.1	11.9		6.9	0	7.1		8.5	12.4	8.7		8.5	0	8.7		12.4	7.0	12.0	
Ref No.	Q308			Q309			Q310			Q311			Q312							
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	12.4	9.1	11.9		0	5.5	0.3		0	3.8	0.3		12.4	12.0	12.1		12.4	11.9	12.2	
PLAY	12.4	8.8	11.9		0	5.6	0.3		0	4.0	0.3		12.4	12.0	12.1		12.4	11.9	12.1	
STOP	12.4	8.7	11.8		0	5.6	0.3		0	4.1	0.3		12.2	12.0	12.1		12.4	11.8	12.1	

Check that you have the accessories shown



Tick off as you
unpack the
accessories.

AC Mains lead



Audio Video Cable
K2KA6CA00001



RF lead to connect the unit and TV
K2KF2BA00001
or
K1TWACC00001



**Batteries for the
Remote Control**
R6 size



Remote Control



Cleaning cloth
RFE0088-1



For cleaning the mirror section on the front of the unit.

Guarantee Card

Quick Start Guide

Still pictures (JPEG) that can be displayed/saved

● This unit is compatible with DCF*¹ based, still picture (JPEG) files recorded using a digital camera.

*¹ Design rule for Camera File system: unified standard established by Japan Electronics and Information Technology Industries Association (JEITA).

● This unit displays only still pictures conforming to DCF standards and JPEG still pictures. It cannot display moving pictures, MOTION JPEG and other such formats, still pictures other than JPEG (i.e. TIFF) or play associated sound.

● Picture definition:


Compatible in the range 320 x 240 – 6144 x 4096 (sub sampling is 4:2:2 or 4:2:0)

● This unit can handle a maximum of **300 folders** (including header folders) and **3,000 files**. Files and folders with numbers which exceed the maximum cannot be displayed, copied or erased.


Note


- When there are a lot of folders and files, it may take a long time to display, copy or erase.
- Folder titles that were input on equipment other than this unit may not be displayed properly.
- When saving still pictures on HDD, it is recommended that you copy them to the PC card or DVD-RAM also (page 65).

Folders that can be displayed/saved

Still pictures (denoted as Filename : xxxxxxxx.JPG) saved in folders () as shown below can be displayed/saved.

Folders (including the still pictures inside those folders) below the compatible folder cannot be displayed or saved.

 : Valid folder*²

 : Upper level folder

* *: Numbers

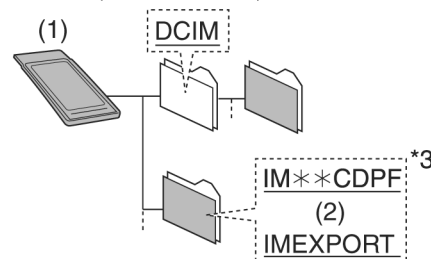
xx: Letters

*² Valid folder:

This term indicates a folder which is recognized by this unit and which contains still pictures the unit is capable of displaying.

● Folders made on a computer will not be recognized by this unit. If using a computer produced folder, refer to the folder structure given below.

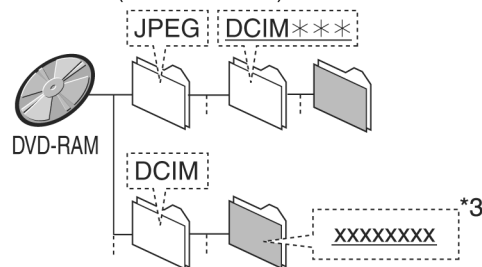
PC card (Folder Structure)



(1) PC card

(2) or

DVD-RAM (Folder Structure)



Note

- You may select any underlined folder for display (page 63).
- Copying cannot be carried out to folders (*³) made on other equipment (page 65).
- The folder cannot be displayed if the numbers are all "0" (e.g., DCIM 000 etc).
- This unit may not be able to display some folder names you have created on a computer.

PC Cards capable of displaying and saving

Available memory card in this unit

- SD Memory Card*
- MultiMediaCard*
- Compact Flash*
- Smart Media*
- Memory Stick*
- ATA Flash PC card

* A PC Card adapter conforming to PC Card standards is necessary.

- **Compatible with:** FAT 12 or FAT 16
- This unit is compatible with Type 2 PC cards. Do not insert any other type of PC card.
- This unit is not compatible with card type hard disks (Micro drives etc).
- Use this unit to format a PC Card when using for the first time. Note that the PC Card may no longer be usable on other equipment once formatted on this unit.
- This unit operates in accordance with the Digital Print Order Format. (PC card only)
- Only use the memory cards recommended above.

■ Regarding Write Protect

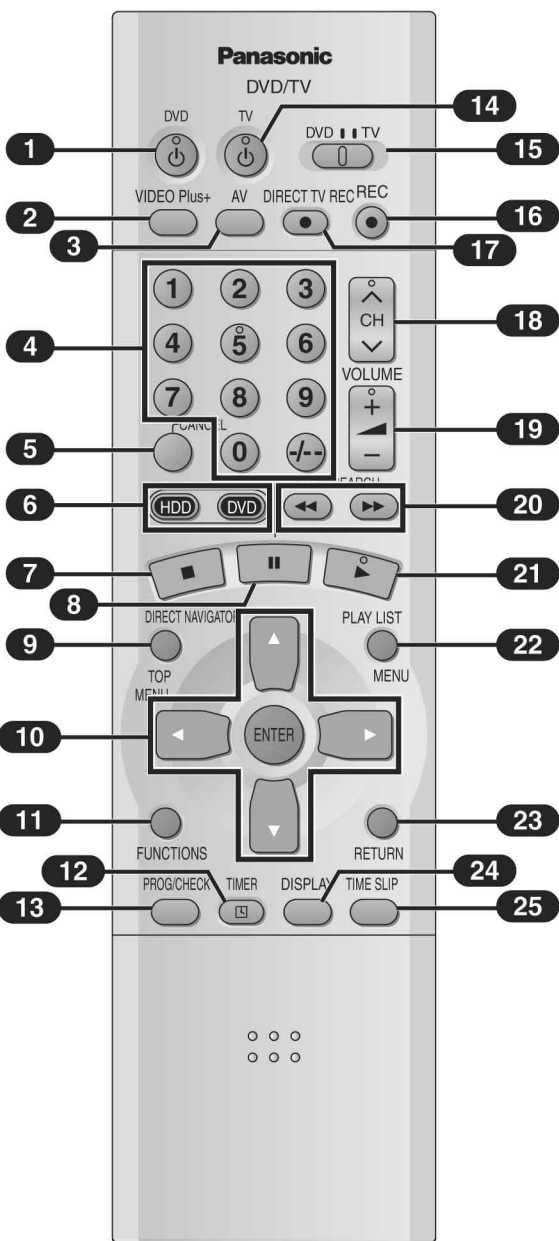
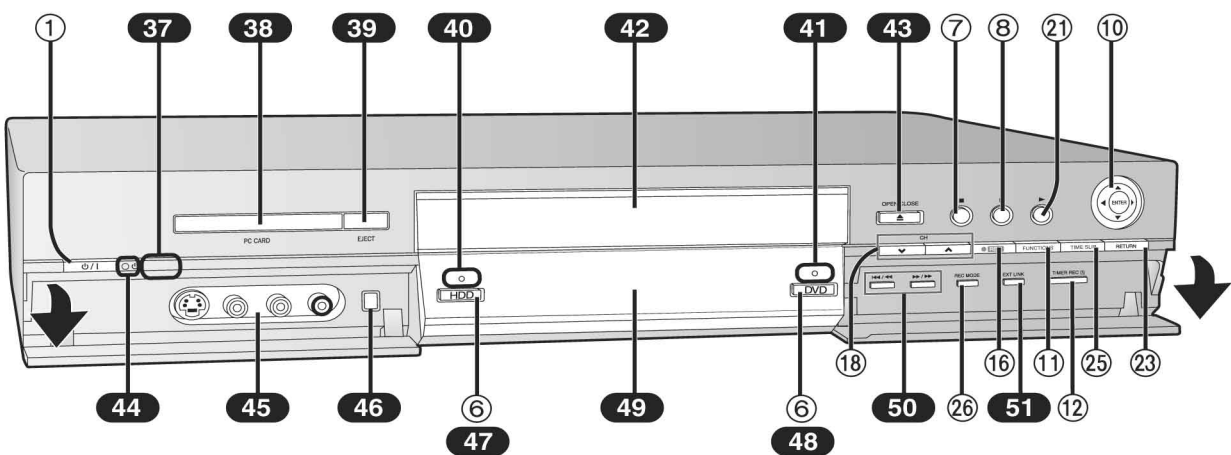
For cards that come provided with a write protect switch, if the switch is on it will not be possible to write, erase or format the card.

■ The card indicator (CARD) in the display

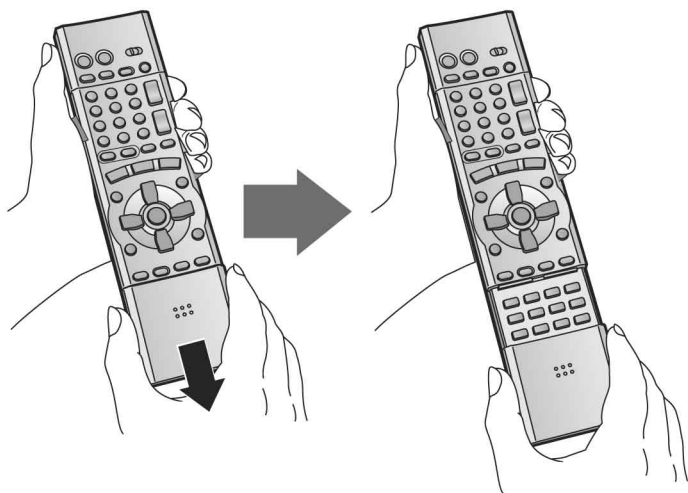


(1) Card indicator

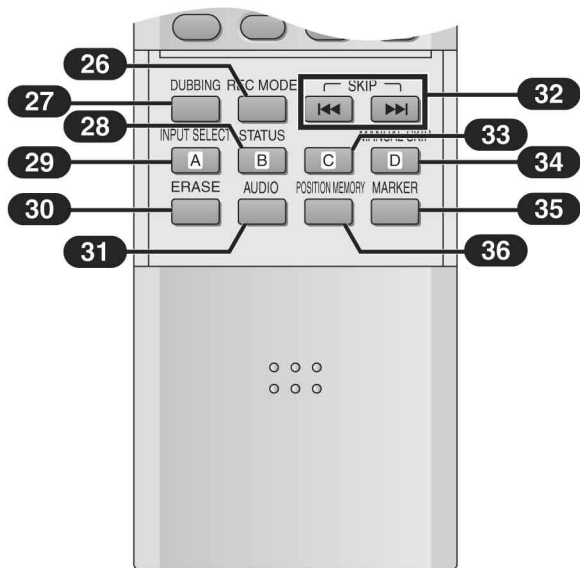
To prevent the damage to the card memory, carry out insertion and removal of the PC card after turning the unit off. The indicator (CARD) in this display flashes when the data is being written to or read from the card. Do not turn off the power or remove the card at such a time. Should you do so, the unit may malfunction or the contents of the card may be damaged.



How to open the remote control



Hold both sides of the remote control's cover to open it. (You can also open it by pressing on the center of it and sliding it down.)



Remote control

- 1 DVD on/off button (⏻, DVD)**
 - To switch the unit from on to standby mode or vice versa. In the standby mode, the unit is still connected to the mains.
 - In standby mode, the unit is still consuming a small amount of power.
- 2 VIDEO Plus+ button (VIDEO Plus+)**
- 3 Television input mode selector (AV)**
- 4 Numeric buttons (0–9, – / –)**
 - When selecting a title, chapter, track, programme, or play list
For the HDD:
Example: “5”: [0] → [0] → [5]
Example: “15”: [0] → [1] → [5]
For the disc:
Example: “5”: [0] → [5]
Example: “15”: [1] → [5]
 - When selecting a page of play list scene
Example: “5”: [0] → [0] → [5]
Example: “15”: [0] → [1] → [5]
 - When selecting a television channel
Example: “5”: [5]
Example: “15”: [– / –] → [1] → [5]
 - When selecting a folder of still picture (JPEG)
When selecting a page of Album (JPEG)
Example: “5”: [0] → [0] → [5]
Example: “15”: [0] → [1] → [5]
- 5 Cancel button (CANCEL)**
- 6 HDD/DVD button (HDD, DVD)**
- 7 Stop button (■)**
- 8 Pause button (⏸)**
- 9 Top menu and Direct Navigator button (TOP MENU, DIRECT NAVIGATOR)**
- 10 Cursor buttons (▲, ▼, ◀, ▶) / Enter button (ENTER)**
- 11 Function button (FUNCTIONS)**
- 12 Timer recording button (⏲, TIMER)**
- 13 Manual programming and check button (PROG/CHECK)**
- 14 TV on/off button (⏻, TV)**
- 15 DVD/TV switch (DVD, TV)**
- 16 Recording button (●, REC)**
- 17 Direct TV recording button (●, DIRECT TV REC)**
- 18 Channel up/down buttons (▲, ▼, CH)**
- 19 TV volume up/down buttons (+, –, VOLUME)**
- 20 Slow/Search buttons (◀◀, ▶▶, SLOW/SEARCH)**
- 21 Play button (▶)**
- 22 Menu and Play List button (MENU, PLAY LIST)**
- 23 Return button (RETURN)**
- 24 Display button (DISPLAY)**
- 25 Time slip button (TIME SLIP)**
- 26 Recording mode button (REC MODE)**
- 27 Dubbing button (DUBBING)**
- 28 Status display button (STATUS)**
- 29 Input select button (INPUT SELECT)**
- 30 Erase button (ERASE)**
- 31 Audio button (AUDIO)**
- 32 Skip buttons (◀◀, ▶▶, SKIP)**
- 33 [C] button**
- 34 Manual skip button (MANUAL SKIP)**
- 35 Marker button (MARKER)**
- 36 Position memory button (POSITION MEMORY)**

Main unit

- 37 Remote control signal sensor**
- 38 PC card slot (PC CARD)**
- 39 Card eject button (EJECT)**
- 40 HDD record lamp**
 - When recording on the HDD drive, this lamp will light (red).
 - This lamp flashes while recording is paused.
- 41 DVD record lamp**
 - When recording on the DVD drive, this lamp will light (red).
 - This lamp flashes while recording is paused.
- 42 Disc tray**
- 43 Disc tray open/close button (▲, OPEN/CLOSE)**
- 44 Standby indicator**
 - When the unit is connected to the AC mains lead, this indicator lights up in standby mode and goes out when the unit is turned on.
- 45 AV3 input terminals (AV3 IN)**
- 46 DV input terminal (DV INPUT)**
- 47 HDD mode lamp**
 - When selecting the HDD drive, this lamp will light (green).
- 48 DVD mode lamp**
 - When selecting the DVD drive, this lamp will light (green).
 - When the HDD drive is selected and a disc is being read after the disc tray has been opened/closed, this lamp will flash.
- 49 Display**
- 50 Skip/Slow/Search buttons (◀◀/◀◀, ▶▶/▶▶)**
- 51 External link button (EXT LINK)**

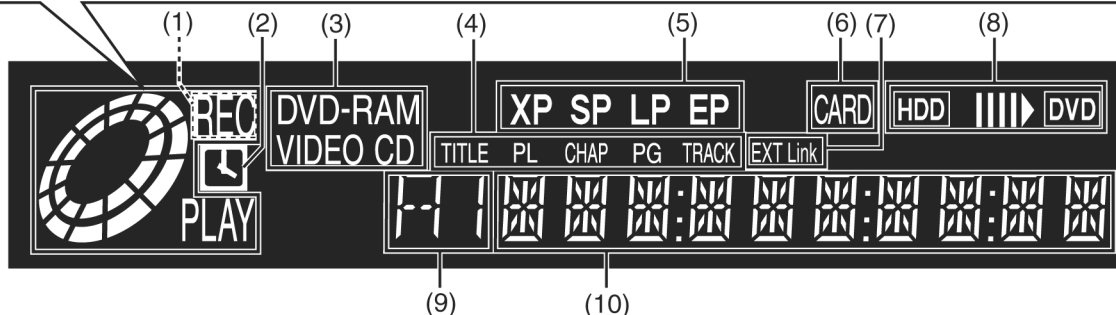
Buttons such as ① function the same as the controls on the remote control.

The unit's display

Rotating (REC): recording
Stopped (REC): recording paused

Rotating (REC, PLAY):
 Chasing play, Simultaneously recording
 and play or Time Slip is in progress

Rotating (PLAY): playing
Stopped (PLAY): play paused



(1) Recording indicator (REC)

On:
 when recording on the currently selected drive

(2) Timer programme display

On:
 when a programme for timer recording is on
Flashes:
 when there are less than 10 minutes to go before timer recording is programmed, but the unit is not on standby.

(3) Disc type

DVD-RAM: DVD-RAM
DVD-R: DVD-R
DVD VIDEO: DVD-Video
VIDEO CD: Video CD
CD: Audio CD

(4) The display mode of the main display section

TITLE: title number
TRACK: track number
CHAP: chapter number
PG: programme number
PL: play list number

(5) Recording mode

XP: High-quality mode
SP: Normal mode
LP: Long play mode
EP: Long play mode
XP SP LP EP (all on):
 FR mode (in flexible recording or in timer recording)

(6) Card indicator

On:
 when a PC card is set in the unit.

Flashes:
 when a PC card is inserted
 when a PC card is being read/written to

(7) External link display

On:
 when a linked timer recording with external equipment is in standby mode, or being performed.

(8) Dubbing direction indicator (page 61)

(9) Channel

1, 2, 3,, 99 / A1, A2, A3, A4 / DV

(10) Main display section

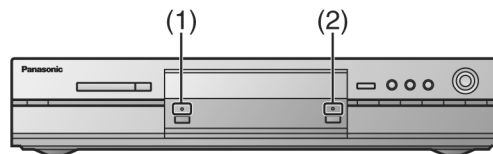
Recording and play counter/ Remaining recording time/ PG (recorded programme on the HDD/DVD-RAM)/ Title etc. of the currently selected drive (HDD/DVD)

- Remaining recording time:
 (For example)
 1 hour → Displayed as "R 1:00"
 timer recording
 Current time
 Track, chapter
 Miscellaneous messages
 etc.

Note

- A half mirror is used for the unit display so the display may occasionally be difficult to see depending on surrounding conditions.
- When the power is off and the unit is carrying out a timer recording, the of the unit's display and HDD/DVD record lamp light.

Regarding the HDD/DVD record lamp



(1) HDD record lamp

(2) DVD record lamp

When recording on the HDD drive, the HDD record lamp will light (red).

When recording on the DVD drive, the DVD record lamp will light (red).