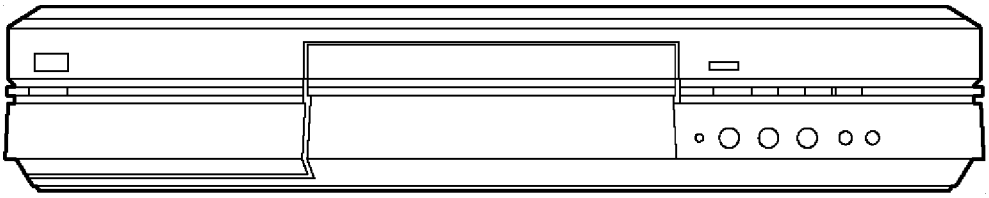
ORDER NO.DSD0302003C8

Service Manual

DVD Video Recorder

DMR-E50EB
DMR-E50EG
DMR-E50GCS
Colour
(S).....Silver Type



SPECIFICATIONS

Specifications

Power supply:	AC220-240 V, 50 Hz (For E50EB/ EG) AC220-240 V, 50/ 60 Hz (For E50GCS)
Power consumption:	29 W
Recording system:	DVD video recording standards (DVD-RAM), DVD video standards (DVD-R)
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:	**Maximum 360 min.** **(with 4.7 GB disc)** **XP: Approx. 60 minutes** **SP: Approx. 120 minutes** **LP: Approx. 240 minutes** **EP: Approx. 360 minutes**
Region Number:	**Region No.2 (E50EB/ EG)** **Region No.3 (E50GCS)**
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 MP3 formatted discs)**
Audio	
Recording system:	**Dolby Digital, 2ch**
Audio In:	**AV1/AV2 (21 pin) AV3/AV4 (pin jack)**
Input Level:	**Standard: 0.5 Vrms** **Full scale: 2 Vrms at 1k Hz**
Input Impedance:	**more than 10k ohm**
Audio Out:	**AV1/AV2 (21 pin) Audio Out (pin jack)**
Output Level:	**Standard: 0.5 Vrms** **Full scale: 2 Vrms 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 (For E50EB)** **PAL I 75 ohm terminated (For E50EB)** **PAL B/ G/ H 75 ohm terminated** **(For E50EG/ GCS)**
Channel Coverage:	
DMR-E50EB only	**UHF: CH 21-68**
DMR-E50EG 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-E50GCS only	VHF:	CH E2-E12
	UHF:	CH 21-69
	CATV:	CH S01-S05 CH M1-M10 CH U1-U10 CH S21-S41
RF Converter Output:	UHF:	CH21-68, 71 ± 3dB μ 75 ohm (For the E50EB) Not provided (For the E50EG/ GCS)

Video

Video System:	PAL colour signal, 625 lines, 50 fields NTSC colour signal, 525 lines, 60 fields
Recording 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. 430x79x283 mm
Mass:	Approx. 3.8 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**

Notes:

Mass and dimensions shown are approximate.

Specifications are subject to change without notice.

Notes:

The part of DVD RAM Drive (VXY1772) is listed separately.

Please refer to ORDER NO. RAM0301002C0.

⚠ 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.

Panasonic

1. SAFETY PRECAUTIONS

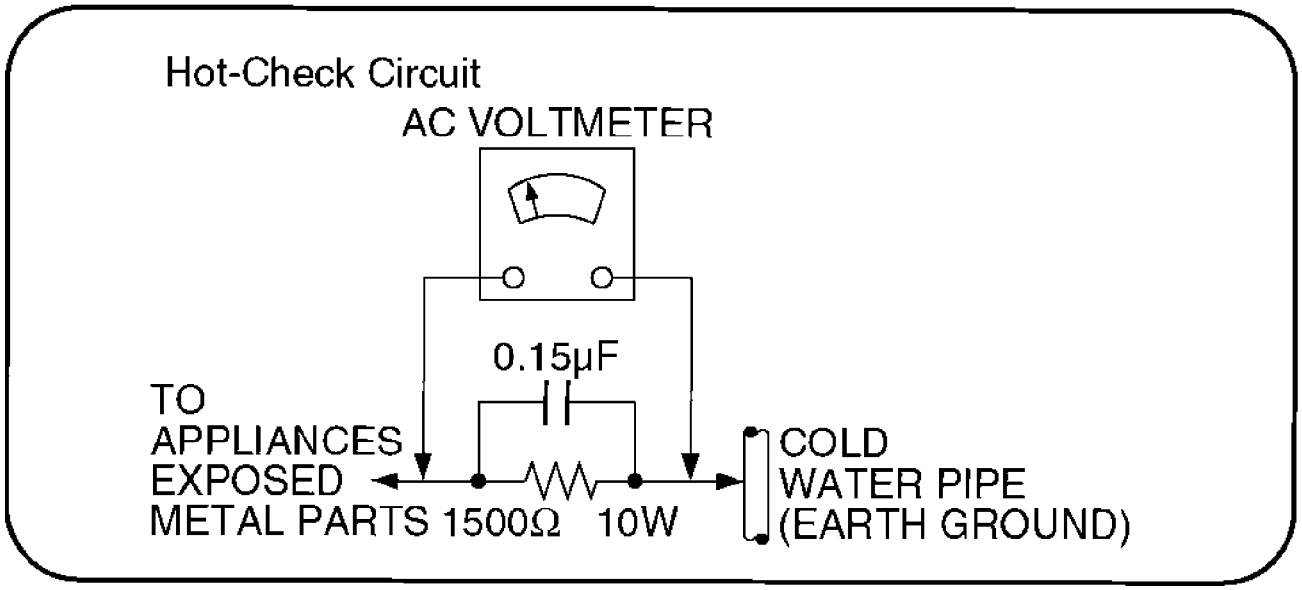
1.1. GENERAL GUIDELINES

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.**

1.1.1. LEAKAGE CURRENT COLD CHECK

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 thechassis, the reading should be between 1MΩ and 5.2MΩ .**
   When the exposed metal does not have a return path to the chassis, the reading must be ∞.

Figure 1



1.1.2. LEAKAGE CURRENT HOT CHECK (See Figure 1 .)

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 .**
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 mu3st not exceed 1/2 milliamp. In case a measurement is outsideof 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.**

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

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

transistorsand 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, whichshould 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 alminum 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, alminum foil or comparableconductive 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 hamless 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 todamage an ES device).**

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant 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.

3. Precaution of Laser Diode

CAUTION:

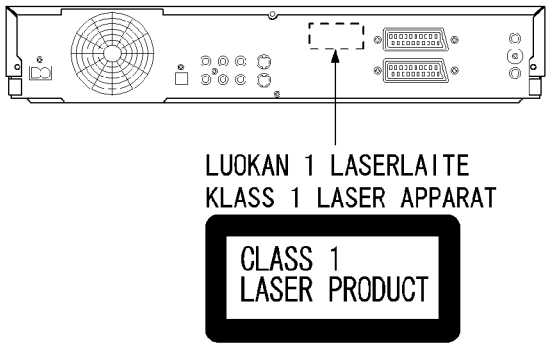
This product utilizes a laser diode with the unit turned “on”, invisible laser radiation is emitted from the pickup lens.
Wave length: 775-815 nm/655-666 nm
Maximum output radiation power from pickup: 100 μ W/VDE
Laser radiation from the pickup lens is safety level,but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

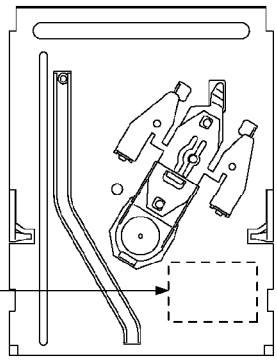
ACHTUNG:

Dieses Produkt enthält eine Laserdiode.
Im eingeschalteten Zustand wird unsichtbare Leserstrahlung von der Laserinheit adgestrahit.
Wellenlänge: 775-815 nm/655-666 nm
Maximale Strahlungsleistung der Lasereinheit: 100 μ W/VDE
Die Strahlungan der Lasereinheit ungefährlich, wenn folgende Punkte beachtet werden:

1. Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.
2. Den werkseitig justierten Einstellregler der Lasereinhit nicht verstellen.
3. Nicht mit optischen Instrumenten in die Fokussierlines blicken.
4. Nicht über längere Zeit in die Fokussierlines blicken.



DANGER	- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (FDA 21 CFR)
CAUTION	- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. (IEC60825-1)
ATTENTION	- RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
ADVARSEL	- SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO!	- AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING	- SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL	- SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT	- SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
注 意	- 打开时有可见及不可见激光辐射，避免激光束照射。
注 意	- ここを開くと可視及び不可視のレーザー光が出ます。ビームを直接見たり、触れにりしないでください。 RQLS0233



CAUTION!
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

4. How to replace the Lithium Battery

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 16.2. 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 fejlagtig håndtering.
Udskiftning má 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.

5. Handling the Lead-free Solder

5.1. About lead free solder (PbF)

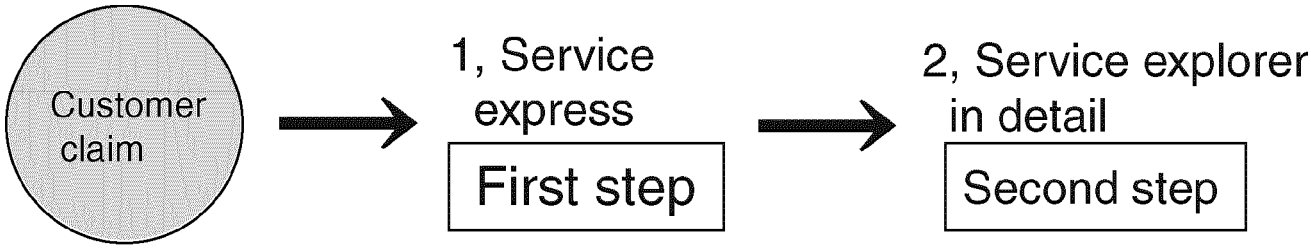
Distinction of PbF P.C.B.:
P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

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 ± 20°F (370 ± 10°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.**

6. Service Explorer

The Service Explorer provides information about all possible causes based on the symptoms and gives step by step instructions making parts. It consists of two parts, based on applications: the first is the "Service Explorer Express" andthe second is "Service Explorer in Detail".



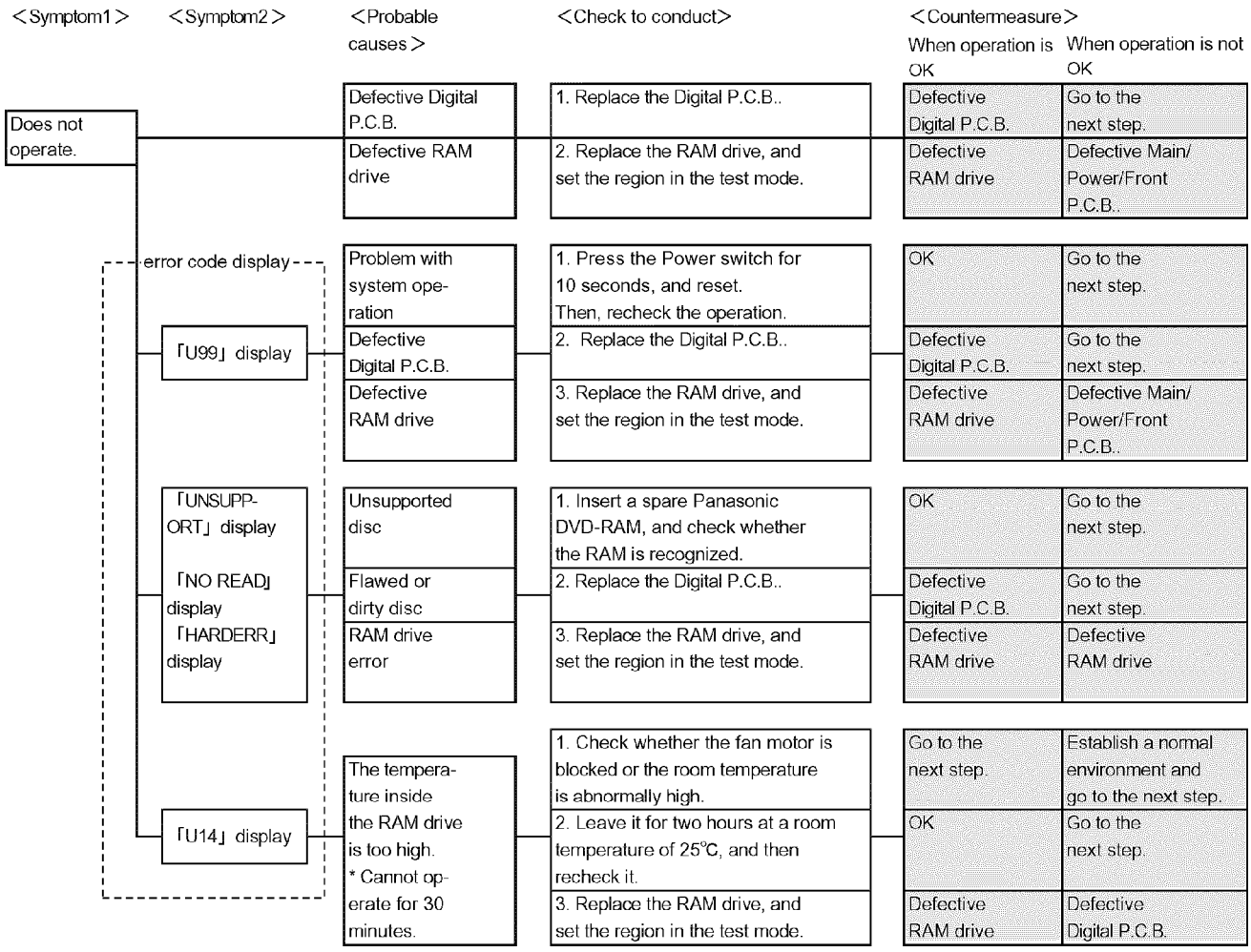
1. For details about the service / test modesetting mentioned in the description, refer to the "List of various modes".

- Service mode setting: While the power is off, press TIME SLIP, STOP, and OPEN / CLOSE simultaneously for five seconds.
- Process mode 1 setting: While the power is off, press SKIP(R), TIME SLIP, and OPEN / CLOSE simultaneously for five seconds.

2. For disassembly and replacement procedures, refer to the "Assembling and Disassemling".

6.1. Service Explorer Express

The following steps allow you to check each block separately (Digital P.C.B., RAM drive, Main / Power Supply / Front P.C.B.).
Items needed: RAM drive, Digital P.C.B., Digital extension cable, Remote control.
Conditions: Nothing special.


<Symptom1>
<Symptom2>
<Probable causes>
<Check to conduct>
<Countermeasure>
When operation is OK
When operation is not OK
Does not operate.
Defective Digital P.C.B.
1. Replace the Digital P.C.B..
Defective Digital P.C.B.
Go to the next step.
Defective RAM drive
2. Replace the RAM drive, and set the region in the test mode.
Defective RAM drive
Defective Main/ Power/Front P.C.B..
error code display
Problem with system operation
1. Press the Power switch for 10 seconds, and reset. Then, recheck the operation.
OK
Go to the next step.
「U99」 display
Defective Digital P.C.B.
2. Replace the Digital P.C.B..
Defective Digital P.C.B.
Go to the next step.
Defective RAM drive
3. Replace the RAM drive, and set the region in the test mode.
Defective RAM drive
Defective Main/ Power/Front P.C.B..
「UNSUPPORT」 display
「NO READ」 display
「HARDERR」 display
Unsupported disc
1. Insert a spare Panasonic DVD-RAM, and check whether the RAM is recognized.
OK
Go to the next step.
Flawed or dirty disc
2. Replace the Digital P.C.B..
Defective Digital P.C.B.
Go to the next step.
RAM drive error
3. Replace the RAM drive, and set the region in the test mode.
Defective RAM drive
Defective RAM drive
「U14」 display
The temperature inside the RAM drive is too high.
* Cannot operate for 30 minutes.
1. Check whether the fan motor is blocked or the room temperature is abnormally high.
Go to the next step.
Establish a normal environment and go to the next step.
2. Leave it for two hours at a room temperature of 25°C, and then recheck it.
OK
Go to the next step.
3. Replace the RAM drive, and set the region in the test mode.
Defective RAM drive
Defective Digital P.C.B.

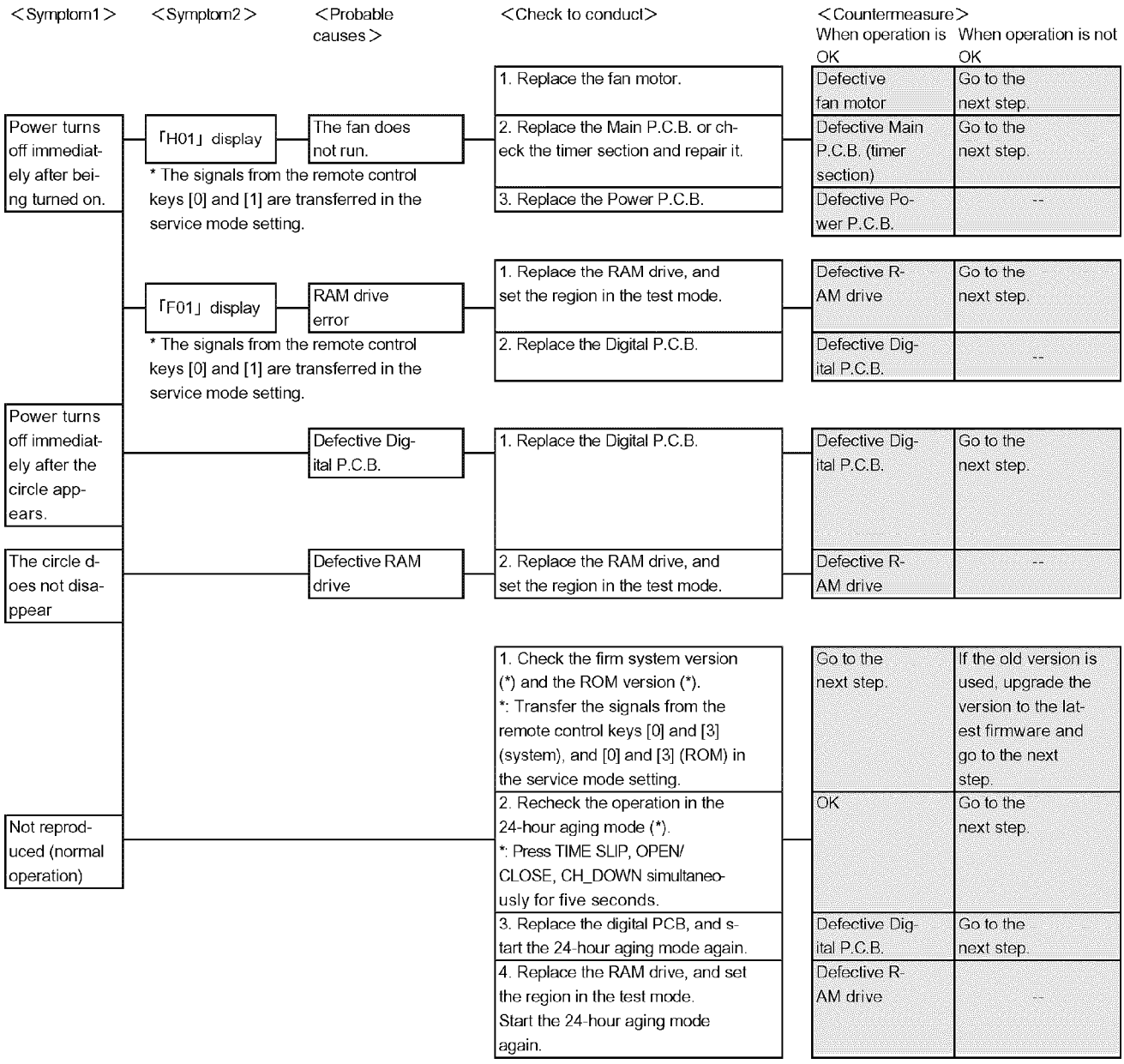
<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not OK
Remote control key check					
Does not operate.	[REMOTE DVD1] display	The remote control code is different from the main unit code.	1. Select [Remote control code] of the initial setting (when [1] is displayed, press [1] and [ENTER]). 2. Press any key, and check the operation.	OK	Replace the remote control.
		The DVD or TV switch setting is wrong.	1. Move the switch to the DVD side, and check the operation.	OK	Go to the next step.
		Battery insertion direction	1. Check the battery polarity.	OK	Go to the next step.
		Dead batteries	2. Replace the batteries with new ones.	Dead batteries	Go to the next step.
		Defective remote control	3. Replace the remote control with a new one.	Defective remote control	Go to the next step.
	Only specific keys do not operate, none keys operate.	Defective Front P.C.B. (defective light-detecting section)	4. Replace the Front P.C.B. or check and repair.	Defective Front P.C.B.	Go to the next step.
		Poor connection between the Front and Main P.C.B.s Defective Main PCB (timer)	5. Replace the Main P.C.B. or check and repair.	Defective Main P.C.B.(including the connector)	Go to the next step.
		Defective Power P.C.B.	6. Replace the Power P.C.B. or check and repair.	Defective Power P.C.B.	--
Main unit key check					
		Poorly fit with the front panel	1. Remove the front panel, and check the operation of each key in the front inspection mode (*). *: Transfer the signals from the remote control keys [5] and [4] in the service mode setting.	Go to the next step.	Poorly fit with the front panel or damaged keypad
	Only specific keys do not operate, none keys operate.	Defective Front P.C.B.	2. Replace the Front P.C.B. or check and repair.	Defective Front P.C.B.	Go to the next step.
		Poor connection between the front and Main P.C.B.s Defective Main P.C.B. (timer)	3. Replace the Main P.C.B. or check and repair.	Defective Main P.C.B. (including the connector)	Go to the next step.
		Defective Power P.C.B.	4. Replace the Power P.C.B. or check and repair.	Defective Power P.C.B.	--

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	<Countermeasure> When operation is not OK
Poor picture and sound		Defective Main P.C.B.	1. Move the digital extension cable switch to [MAIN], install the original digital PCB and insert.	Go to the next step. (The Main P.C.B. is OK.)	Defective Main P.C.B.
		Defective RAM drive	2. Move the digital extension cable switch to [Digital], transfer the signals from the remote control keys [1] and [3](EE2 mode) in the service mode setting.	Defective RAM drive	Go to the next step.

6.2. Service Explorer in Detail

6.2.1. Does not operate

items needed: RAM drive, digital P.C.B., remote control.
Conditions: Nothing special.



6.2.2. Poor Pictures

Items needed: RAM drive, Digital P.C.B., RF cable, AV cable.
Conditions: Check with TU IN-AV OUT(EE). When recording or playback is partially needed, follow the instructions.

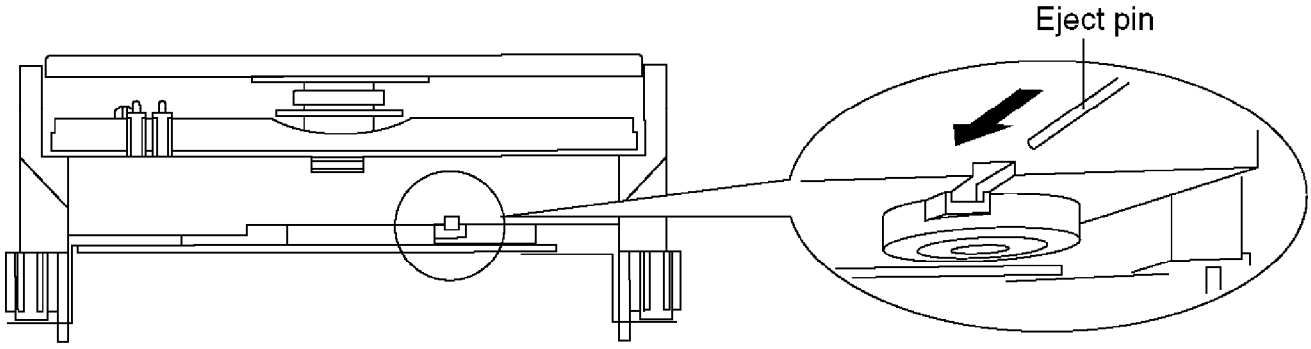
<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not OK
Noise in the picture and sound. No picture color.		The signal is too weak.	1.Confirm wheather connecting through VCR.	Go to the next step.	Connect to recorder directly.
		The tuner signal reception is too weak.	2. Reconnect the RF cable to TV, and check the picture and sound.	Go to the next step.	Poor signal reception
		The RF cable is badly damaged.	3. Replace the RF cable, and check.	Defective RF cable	Go to the next step.
		The AV cable is badly damaged.	4. Replace the AV cable, and check.	Defective AV cable	Go to the next step.
		Defective Main P.C.B..	5. Move the digital extension cable switch to [MAIN], install the original digital PCB and insert.	Go to the next step. (The Main PCB is OK.)	Defective Main P.C.B.
		Defective Digital P.C.B..	6. Replace the Digital P.C.B..	Defective Digital P.C.B.	--
No picture or sound is output.		Defective RF cable	1. Replace the RF cable, and check.	Defective RF cable	Go to the next step.
		Defective AV cable	2. Replace the AV cable, and check.	Defective AV cable	Go to the next step.
		Defective Main P.C.B.	3. Move the digital extension cable switch to [MAIN], install the original digital PCB and insert.	Go to the next step. (The Main PCB is OK.)	Defective Main P.C.B.
		Defective Digital P.C.B..	4. Replace the Digital P.C.B..	Defective Digital P.C.B.	--
Picture and sound are not synchronized		Poor turner signal reception.	1. Select a different broadcast channel, and check.	Poor signal reception	Go to the next step.
		Defective Digital P.C.B..	2. Replace the Digital P.C.B..	Defective Digital P.C.B.	--

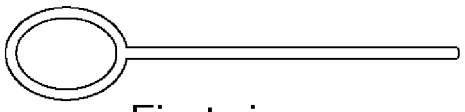
<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not OK
Block noise		Defective RAM drive and Digital P.C.B..	1. Replace the RAM drive, and set the region in the test mode.	(Auto recording and playback) Defective RAM drive	Go to the next step.
			2. Replace the Digital P.C.B..	(Auto recording and playback) Defective Digital P.C.B.	--
Not reproduced (normal operation)			1. Check the firm system version (*) and the ROM version (*). *: Transfer the signals from the remote control keys [0] and [3] (system), and [0] and [3] (ROM) in the service mode setting.	Go to the next step.	If the old version is used, upgrade the version to the latest firmware and go to the next step.
			2. Recheck the operation in the 24-hour aging mode (*). *: Press TIME SLIP, OPEN/CLOSE, CH_DOWN simultaneously for five seconds.	OK	Go to the next step.
			3. Replace the Digital PCB, and start the 24-hour aging mode again.	Defective Digital P.C.B.	Go to the next step.
			4. Replace the RAM drive, and set the region in the test mode. Start the 24-hour aging mode again.	Defective RAM drive	--

6.2.3. Other

Items needed: Digital P.C.B., HDD.
Conditions: Nothing special.

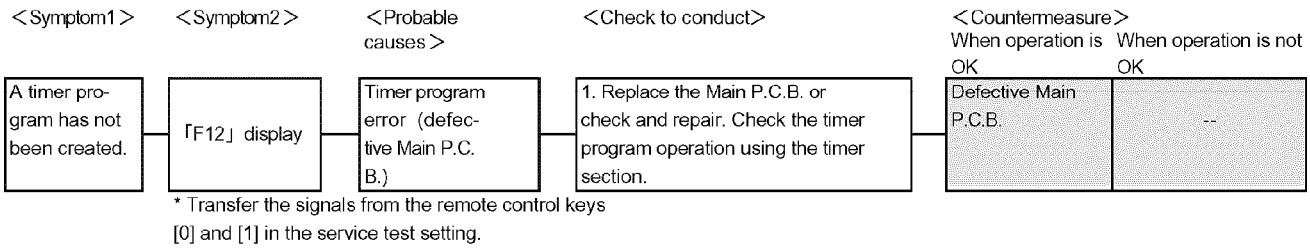
<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not OK
No media can be played.		Erasing the AV ID	1. Using the remote control, set the AV limit level to "8", and set the ID number to "0000". Or, when the tray is open, press SKIP(R) and SKIP(L) simultaneously for five seconds.	When the operation is normal, it is OK. If it is abnormal, go to the next step.	Go to the next step.
All Key is prohibited		Child lock release	1. Press "ENTER" and "RETURN" by remote controller simultaneously until "XHOLD" is disappeared.	When the operation is normal, it is OK. If it is abnormal, go to the next step.	Go to the next step.
The disc cannot be removed. (Sales demonstration LOCK)		Sales demonstration LOCK	1. Press the OPEN or CLOSE button, and make sure that the [LOCK] display is brought up. Then, when the power is on, press STOP and POWER simultaneously for five seconds.	If [UNLOCK] appears and the tray opens, it is OK.	--
The disc cannot be removed. (Malfunction)		The disc is stuck because the deck is not working properly.	1. When the power is off, press STOP and CH_UP simultaneously for five seconds.	If the tray opens, it is OK.	Go to the next step.
			2. Remove the front panel, remove the disk using an eject pin. (Refer to the following drawing.)	If the disc can be ejected, it is OK	Go to the next step.





Eject pin
(Part number: JZS0484)

Turn the gear with an eject pin.



* Transfer the signals from the remote control keys [0] and [1] in the service test setting.

7. Standard Inspection Specifications after Making Repairs

7.1. Standard Inspection Specification

After making repairs, we recommend performing the following inspection, to check normal operation.

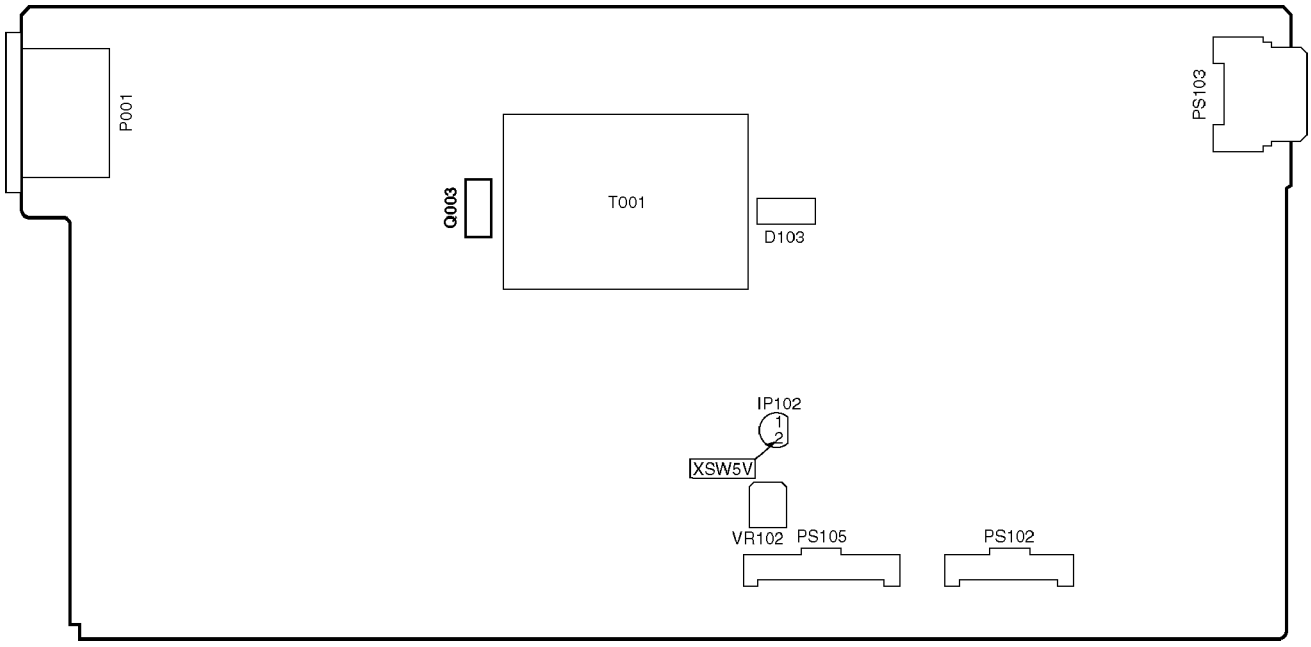
No.	Procedure	Item to Check
1	Turn on the power.	The Panasonic RAM disc should be recognized.
2	Enter the EE (TU IN / AV IN - AV OUT) mode.	No abnormality should be seen in the picture, sound or operation.
3	Perform auto recording and playback for one minute using the RAM disc.	No abnormality should be seen in the picture, sound or operation.
4	If a problem is caused by a VCD, DVD-R, DVD-Video, Audio-CD, or MP3, playback the test disc.	No abnormality should be seen in the picture, sound or operation.
5	After checking and making repairs, upgrade the firmware to the latest version.	Make sure that [FIRM_SUCCESS] appears in the FL displays.
6	Transfer [9][9] in the service mode setting, and initialize the service settings (return various settings and error information to their default values. The laser time is not included in this initialization).	Make sure that [FACT INIT] appears in the FL display. After checking it, turn the power off.
7	To replace the RAM drive, reset all the information (including the laser time) in the process mode 1 setting. *The laser time is the total time that DVDs or CDs have been played or recorded.It is recorded on the Digital P.C.B..	Maku sure that [TEST L1] appears in the FL display. After checking it, turn the power off.

Use the following checklist to establish the judgement criteria for the picture and sound.

Item	Contents	Item	Contents	Check
	Block noise		Distorted sound	
	Crosscut noise		noise (static, background noise, etc.)	
	Dot noise		The sound level is too low.	
Picture	Picture disruption	Sound	The sound level is too high.	
	Not bright enough		The sound level changes.	
	Too bright			
	Flickering color			
	Color fading			

7.2. Power Supply +5V Adjustment Procedure

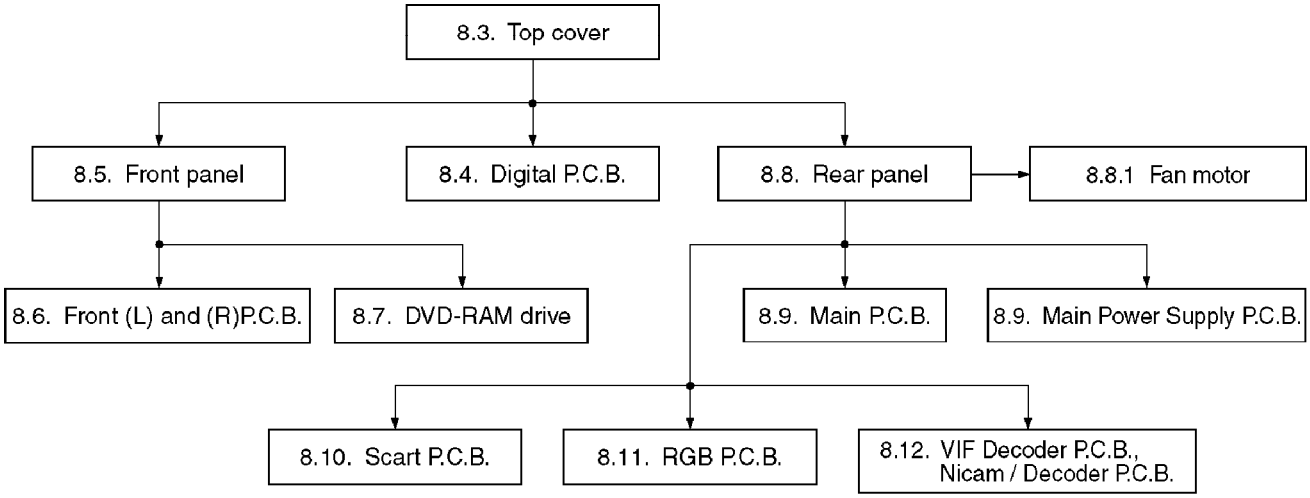
1. When the T001, Q003 and D103 is replaced, adjust the "XSW5V" measuring point (IP102-2) in the VR102 to the value between 5.12 - 5.15V.



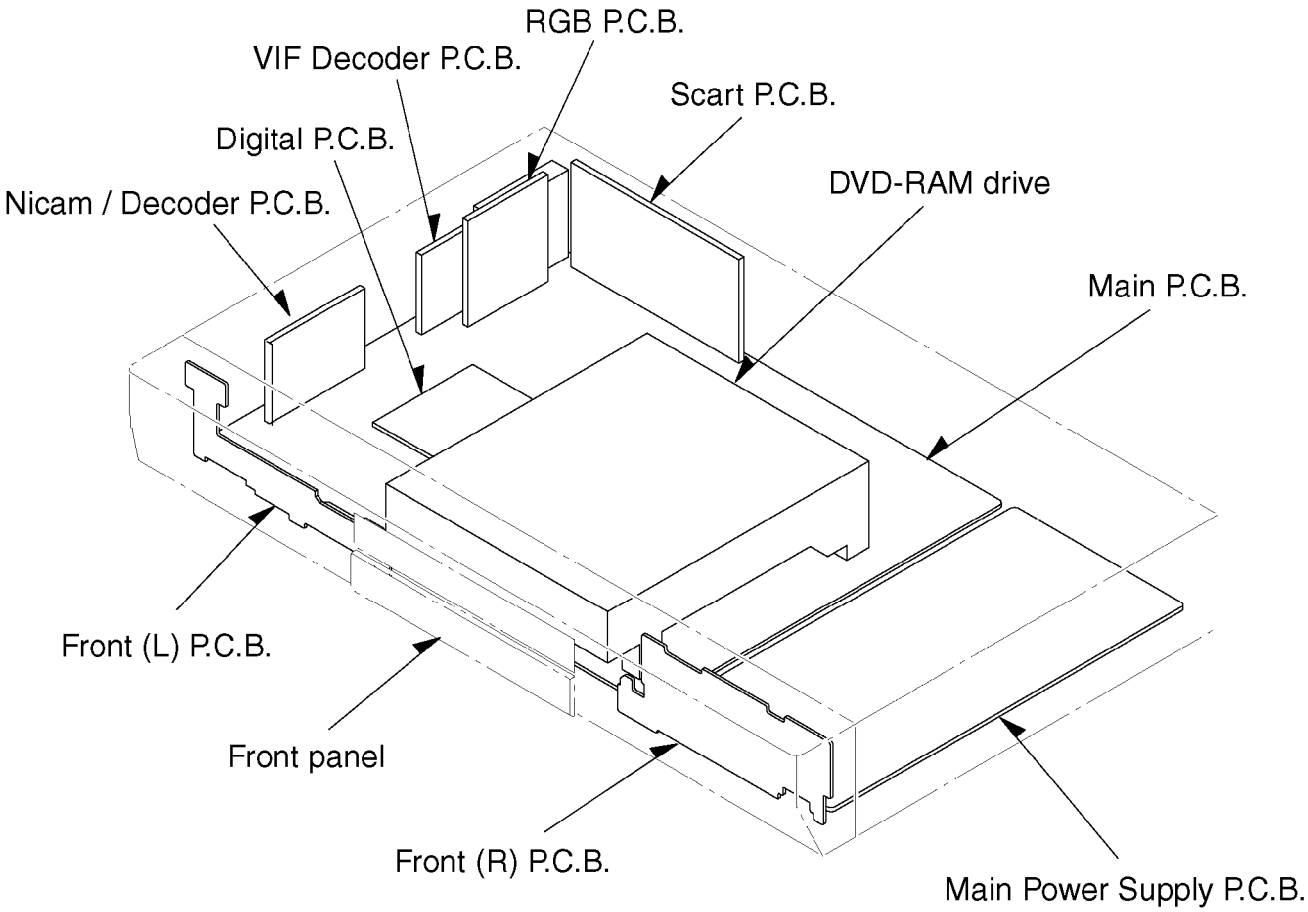
8. Assembling and Disassembling

8.1. Disassembly flow chart

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 chart below.



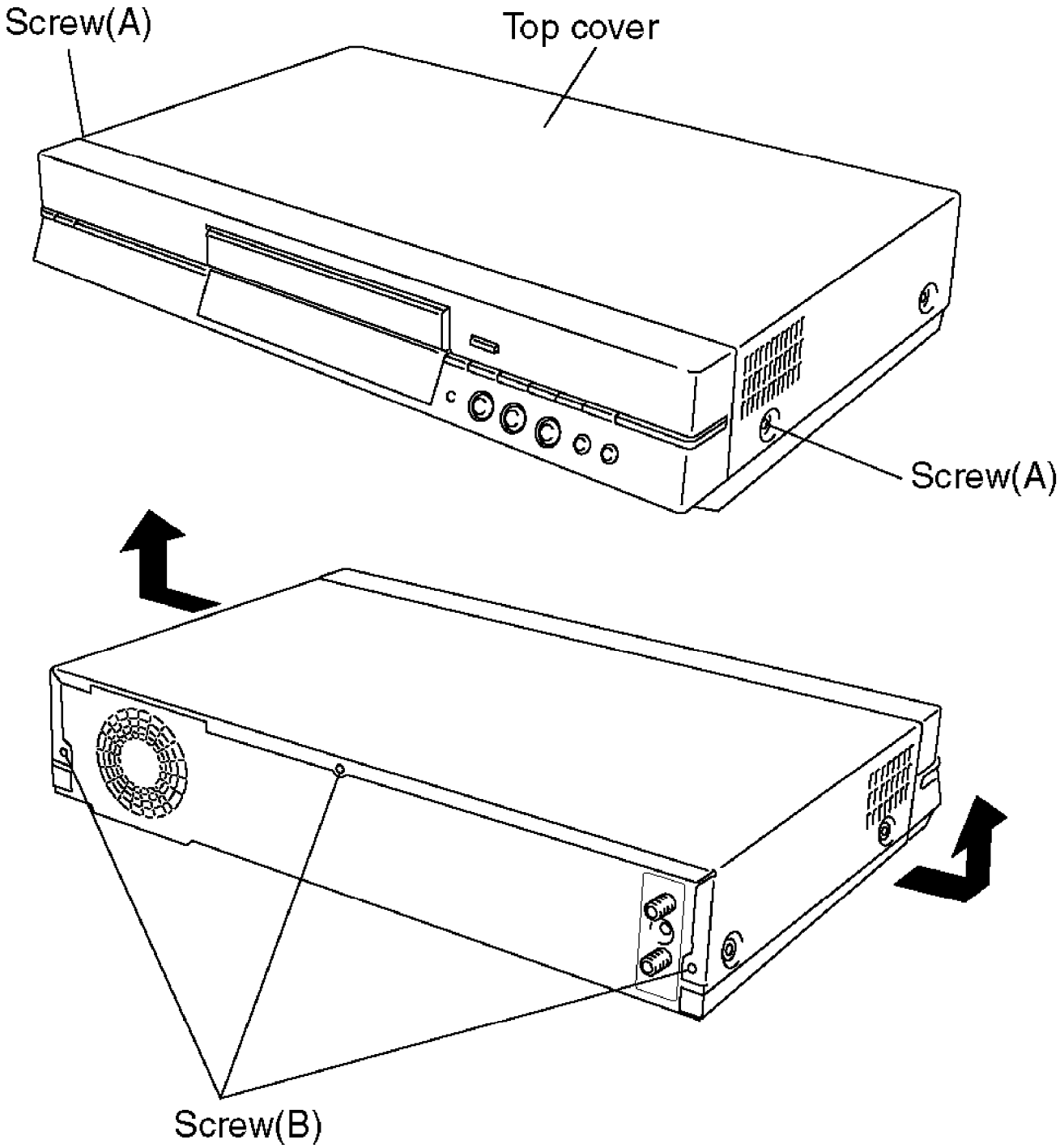
8.2. P.C.B. Positions



8.3. The Top Cover

1. Remove the 2 screws (A) and 3 screws (B).

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.

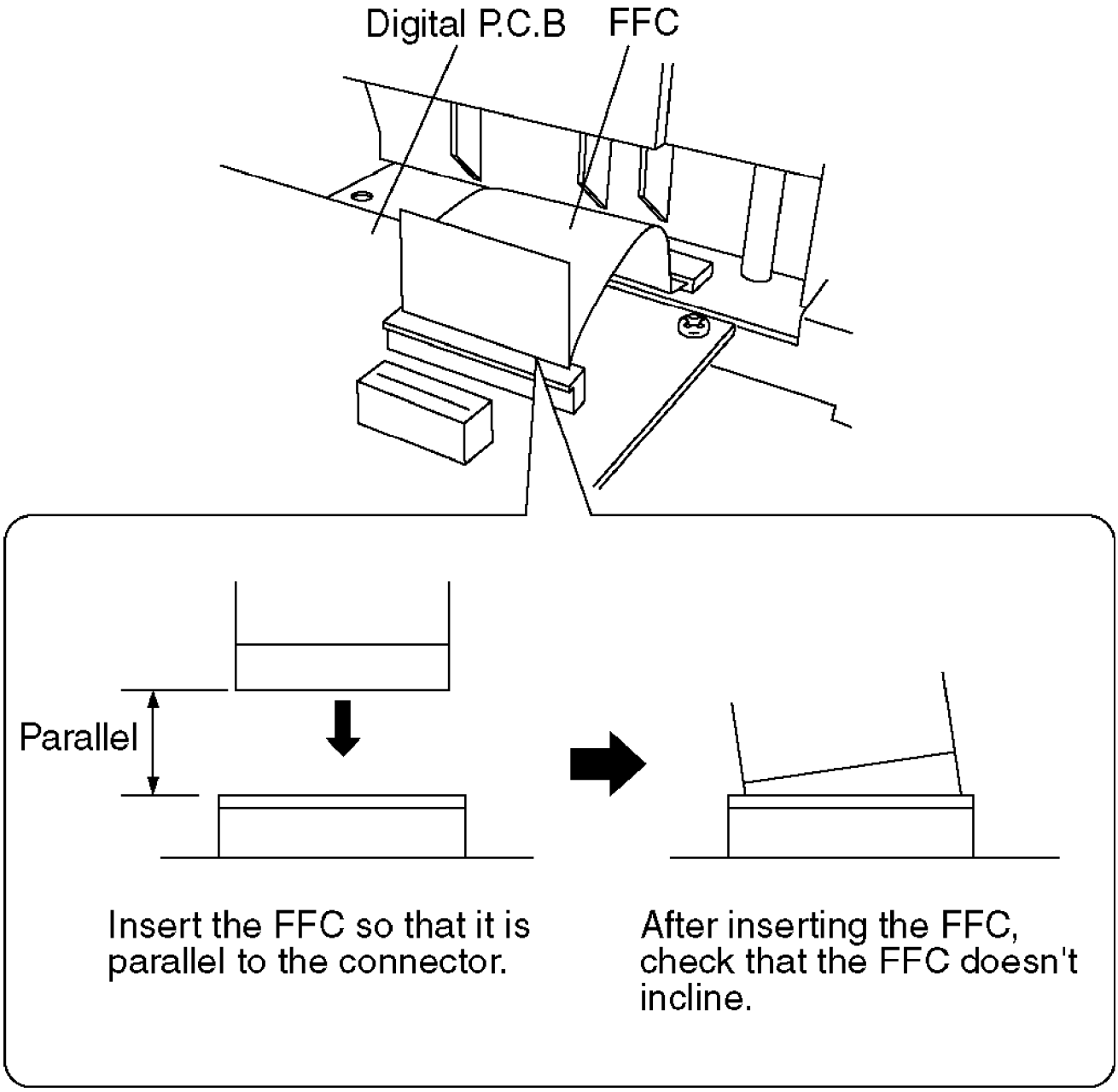


8.4. The Digital P.C.B.

1. Remove the FFC.

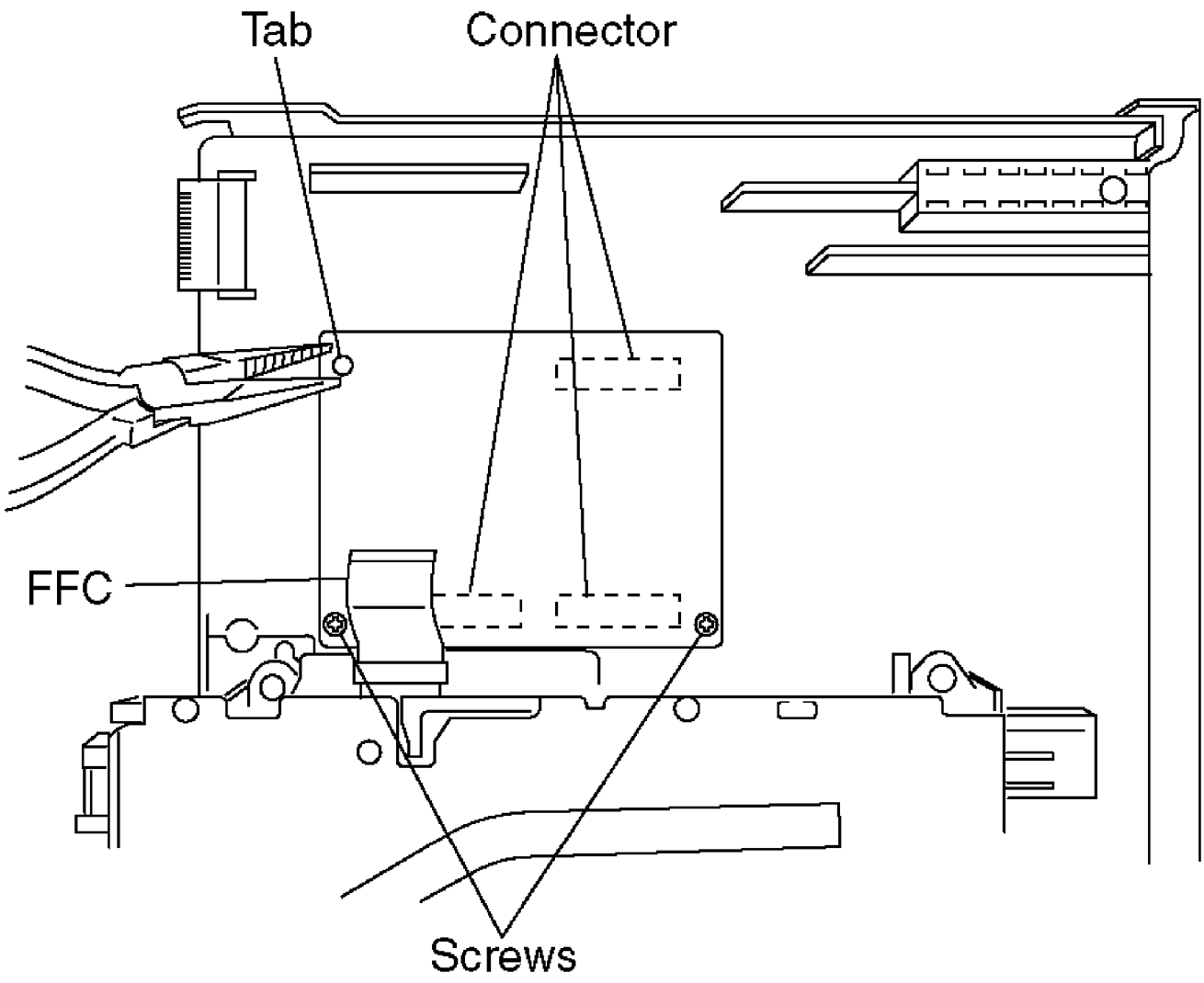
CAUTION:

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



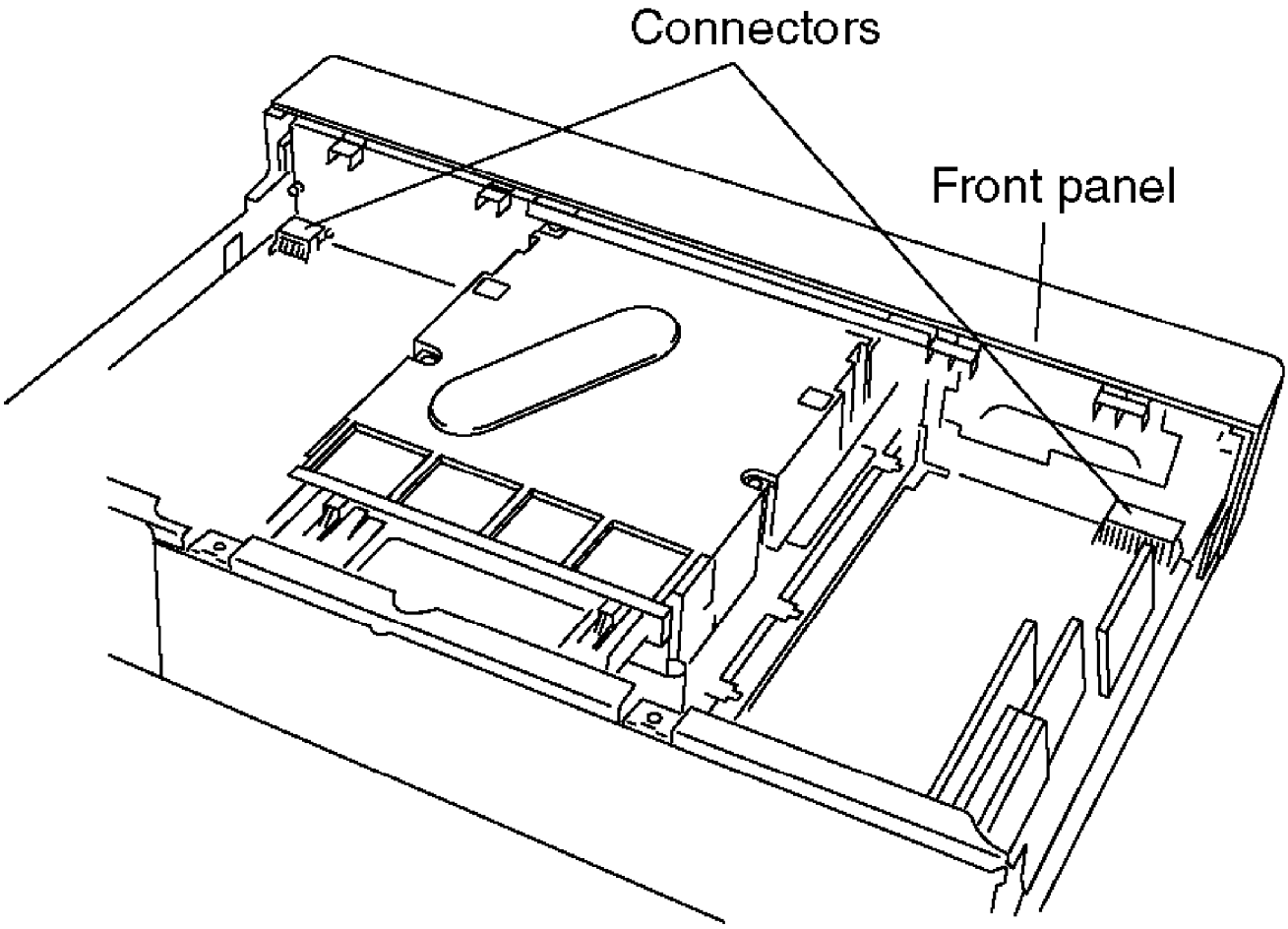
2. Remove the 2 screws.

3. Pinch the tab with the pliers to pull out the 3 Connectors and Digital P.C.B.



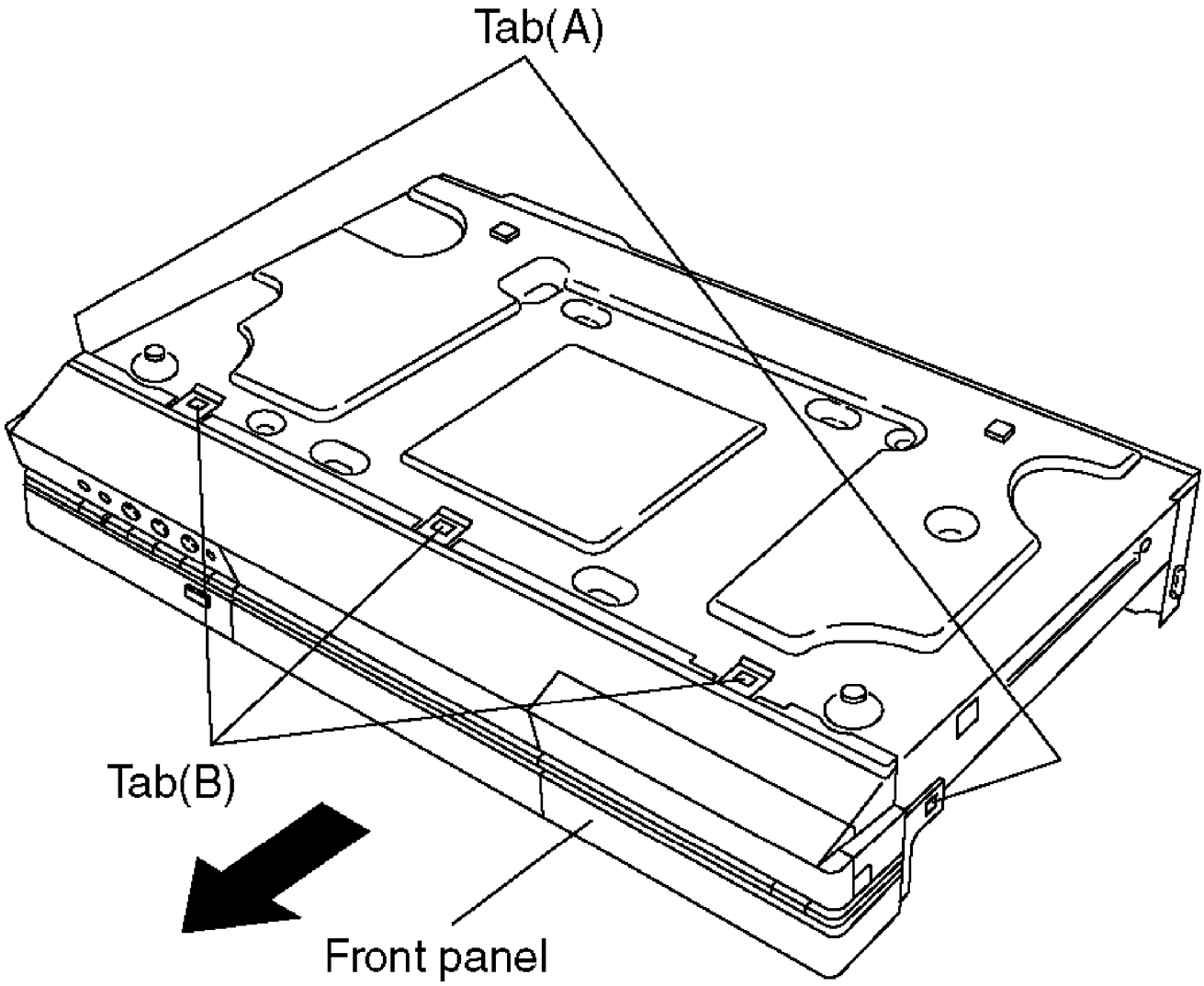
8.5. The Front panel

1. Remove the 2 connectors.



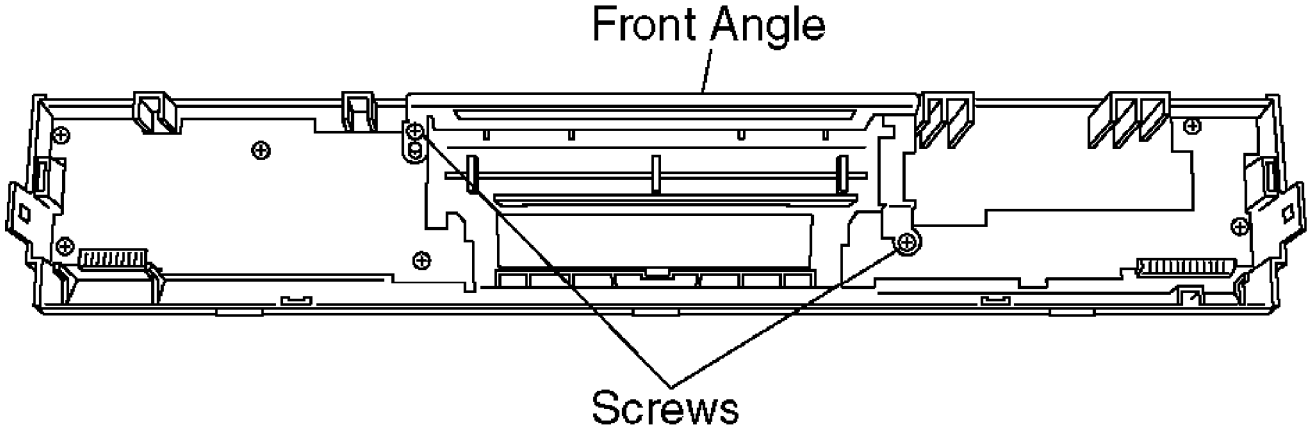
2. Remove the 2 tab (A) and 3 tab (B) in this order. (The tab (A) and the tab (B) should be removed at the same time, respectively.)

3. Move the front panel to your side slowly and remove it.



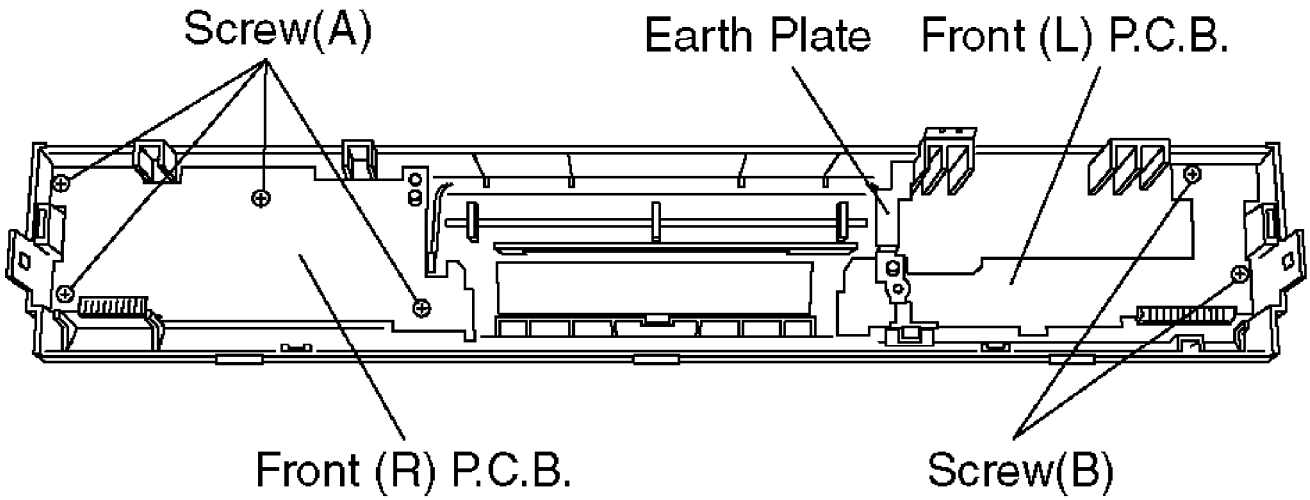
8.6. The Front (L) and (R) P.C.B.

1. Remove the 2 screws and remove the Front Angle.



2. Remove the 4 screws (A) and remove the Front (R) P.C.B.

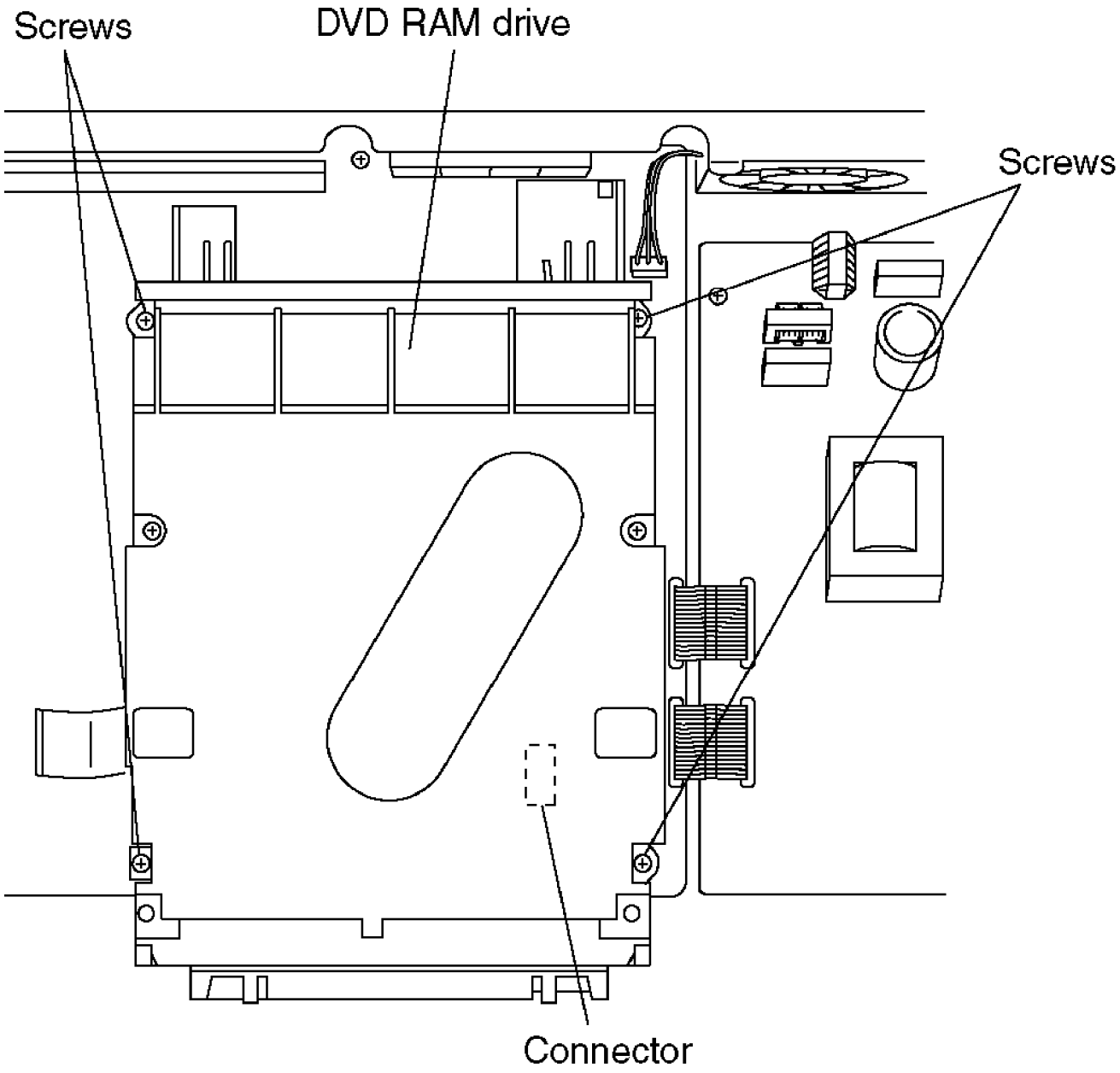
3. Remove the 2 screws (B) with Earth plate and remove the Front (L) P.C.B.



8.7. The DVD-RAM Drive

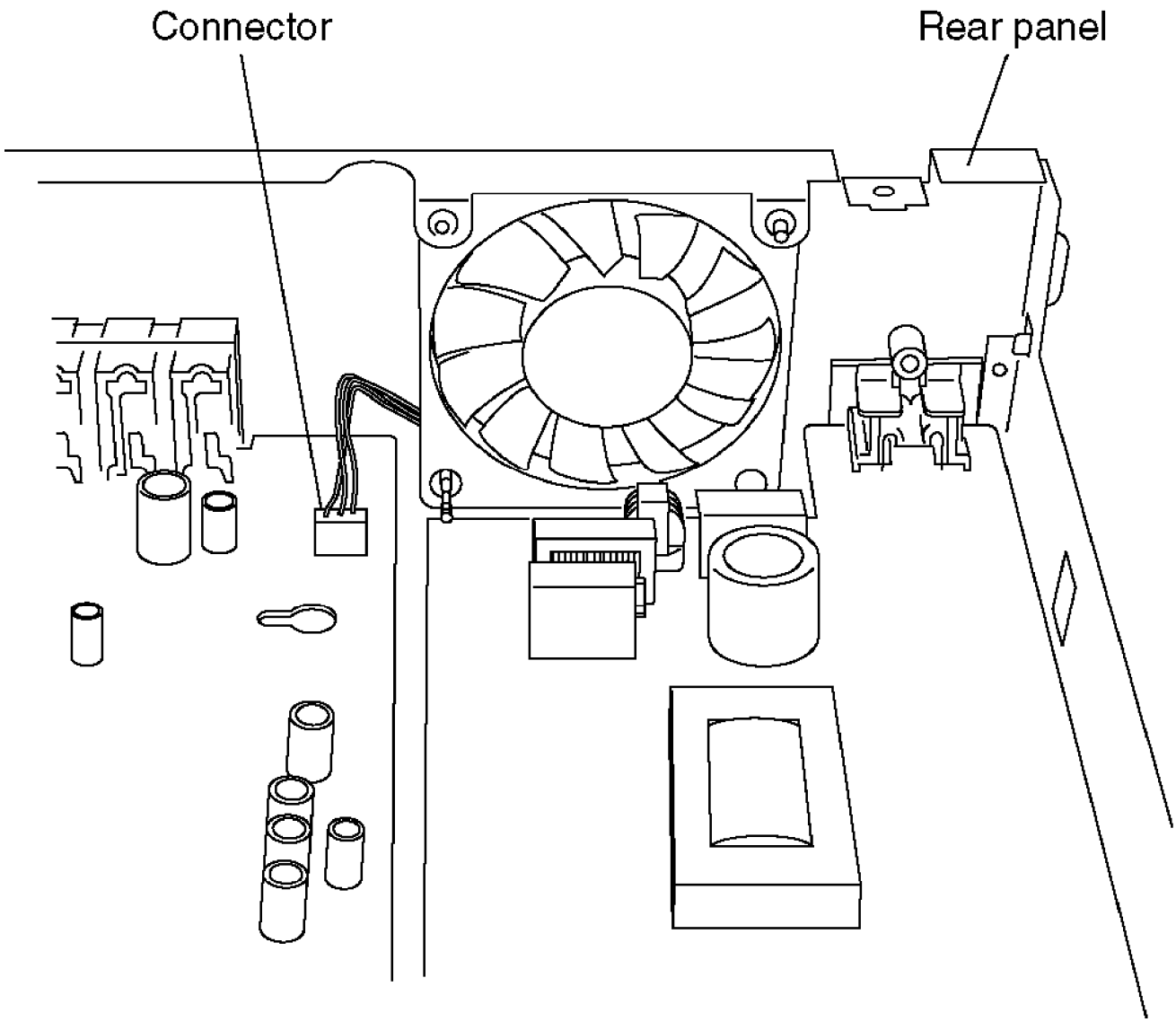
1. Remove the 4 screws.

2. Pull out the DVD-RAM Drive vertically and remove the connector.



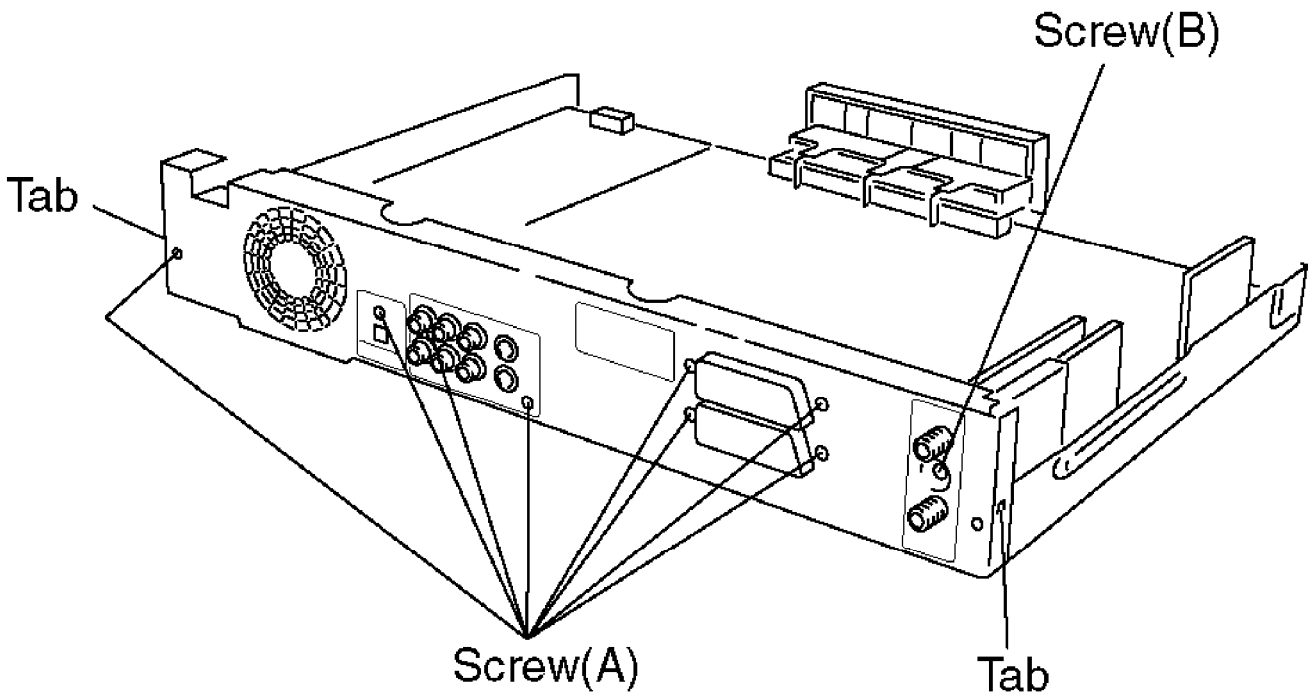
8.8. The Rear panel

1. Remove the Fan Motor connector.



2. Remove the 8 screws (A) and a screw (B).

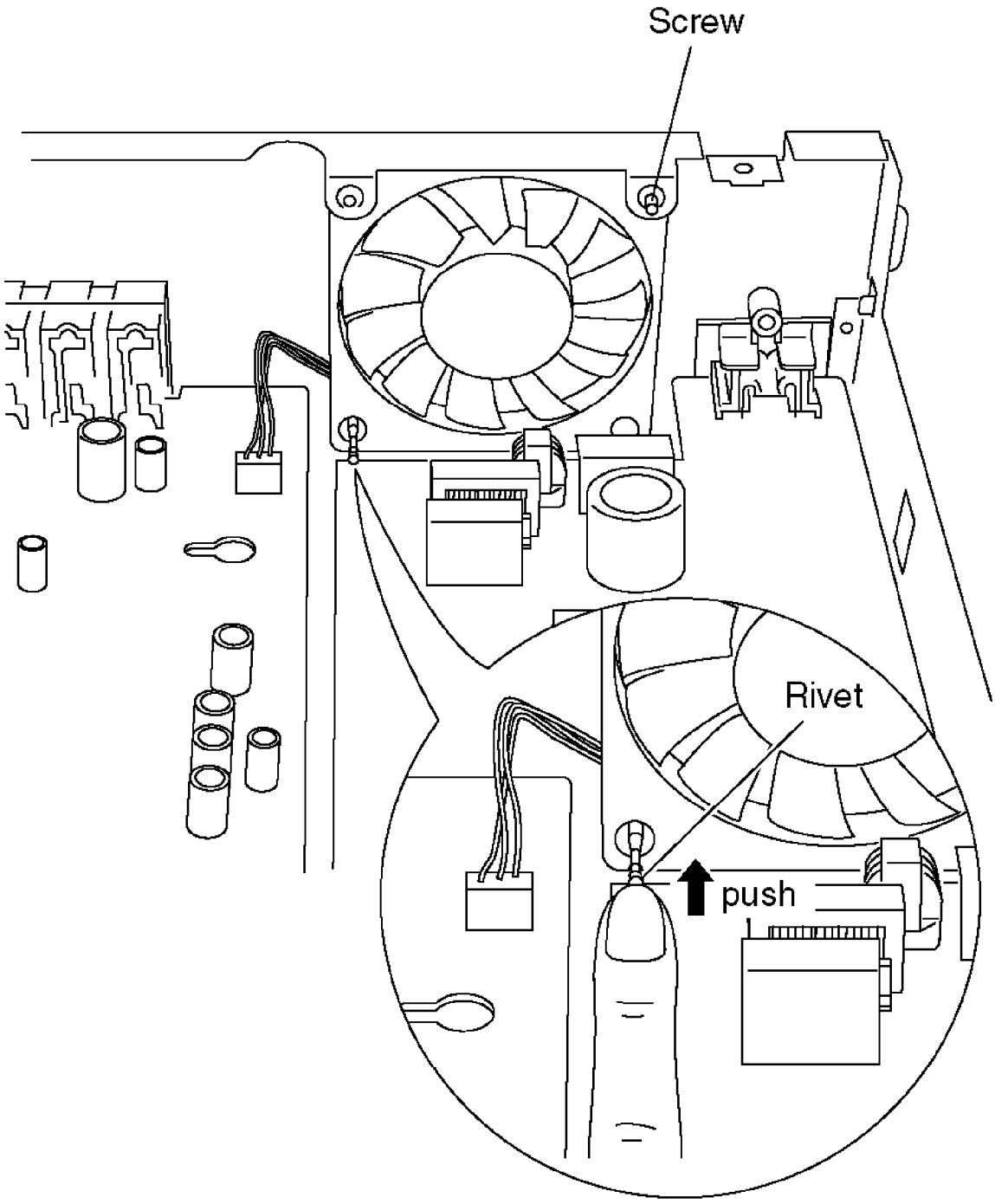
3. Remove the 2 tabs and remove the Rear panel.



8.8.1. In case of removing Fan motor from Rear panel

1. Remove a screw.

2. Push tip of rivet to remove it.



8.9. The Main Power Supply P.C.B. and Main P.C.B.

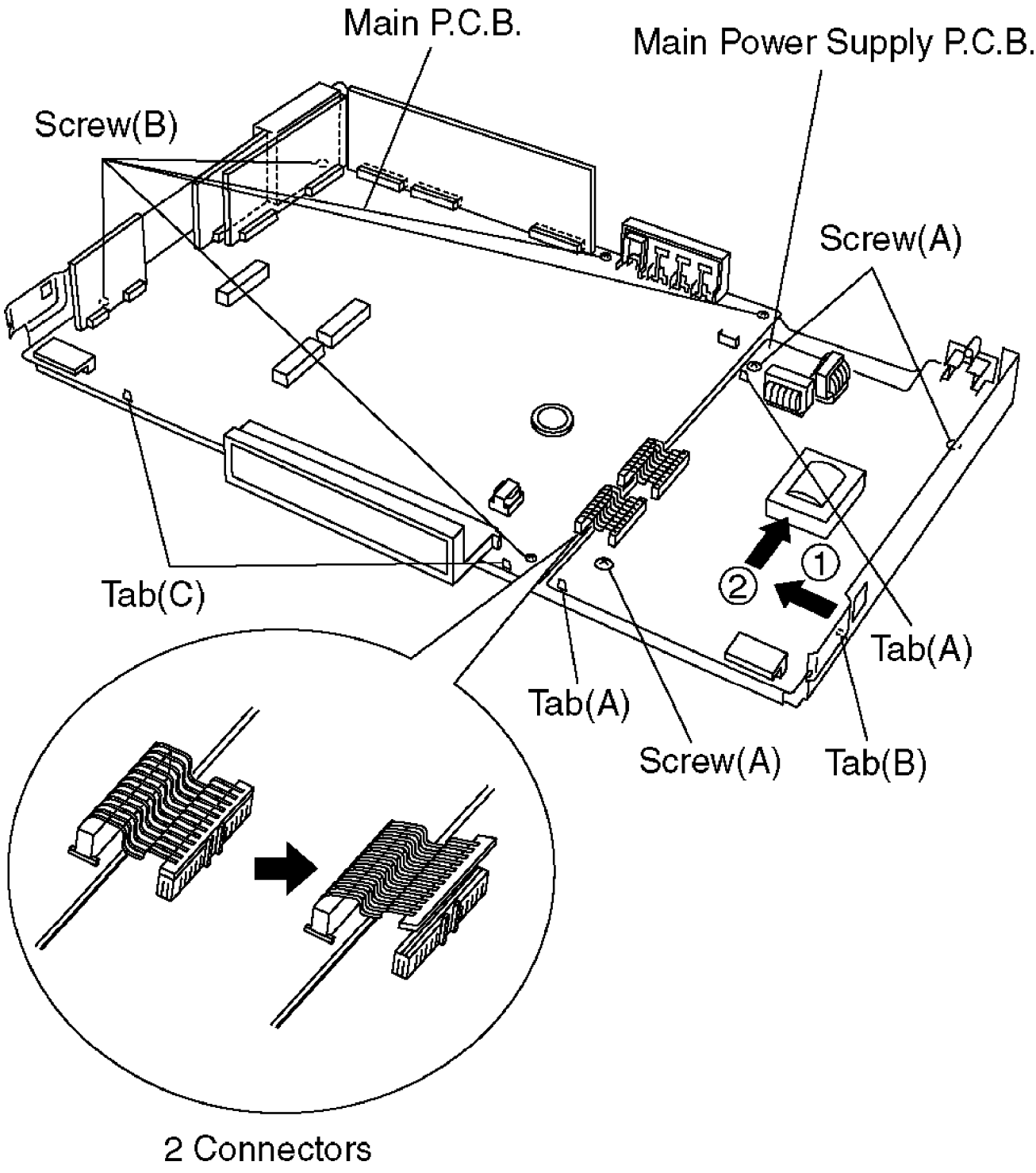
1. Remove the 2 connectors.

2. Remove the 3 screws (A) and 2 tab (A).

3. Remove the Main Power Supply P.C.B and tab (B), pull out it in the direction of the arrow. ① to ② .

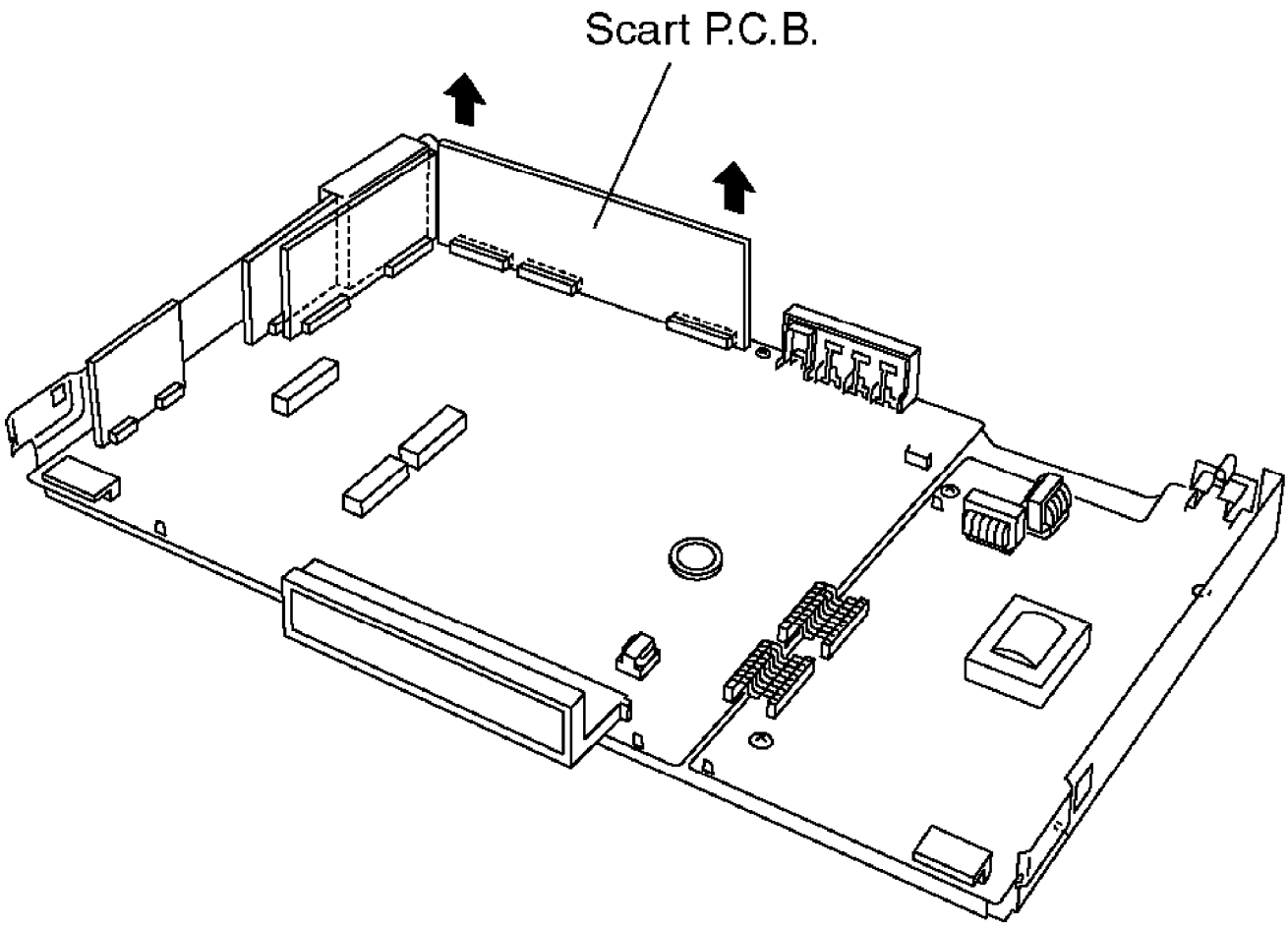
4. Remove the 5 screws (B) and 2 tab (C).

5. Remove the Main P.C.B.



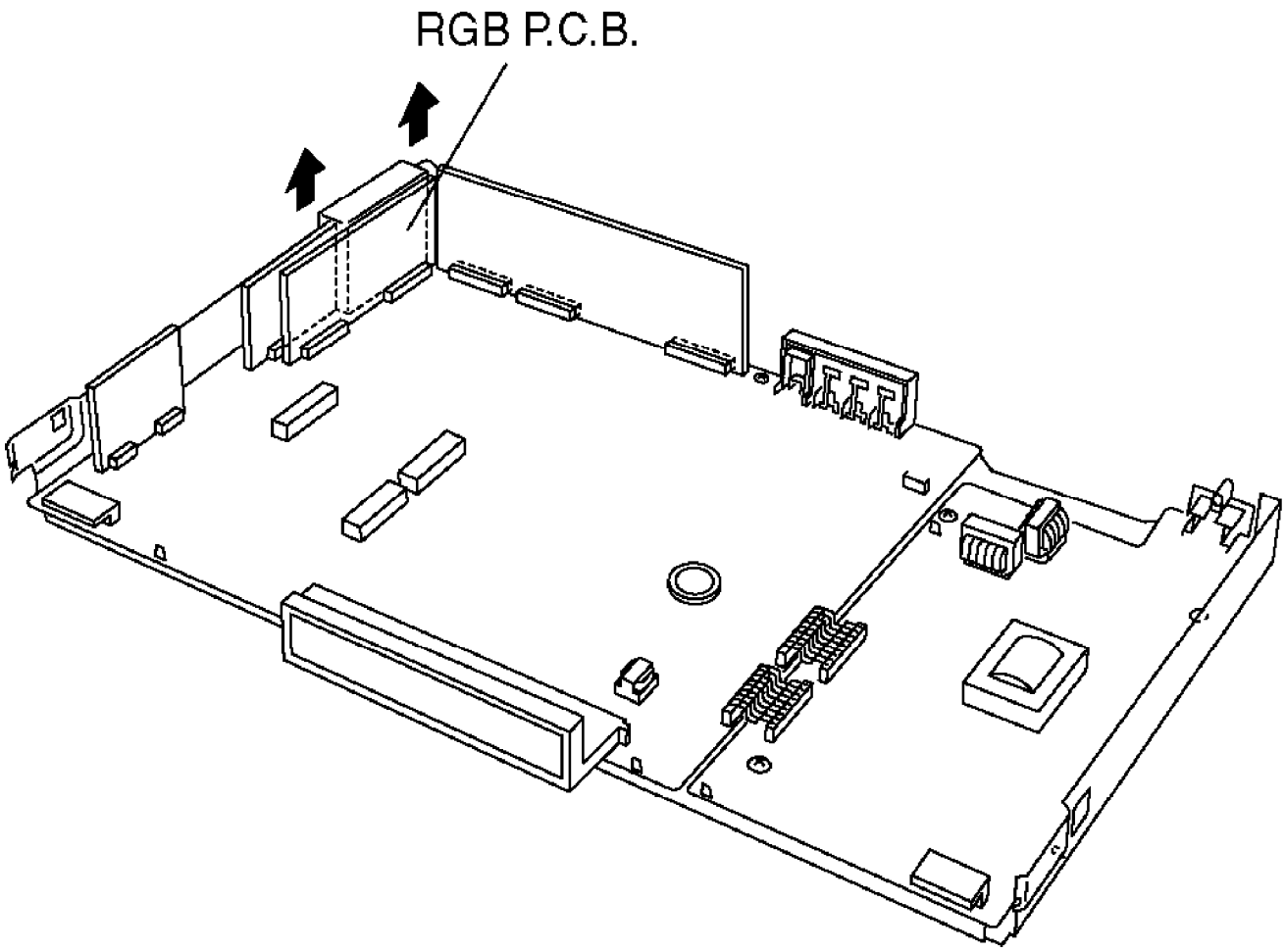
8.10. The Scart P.C.B.

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

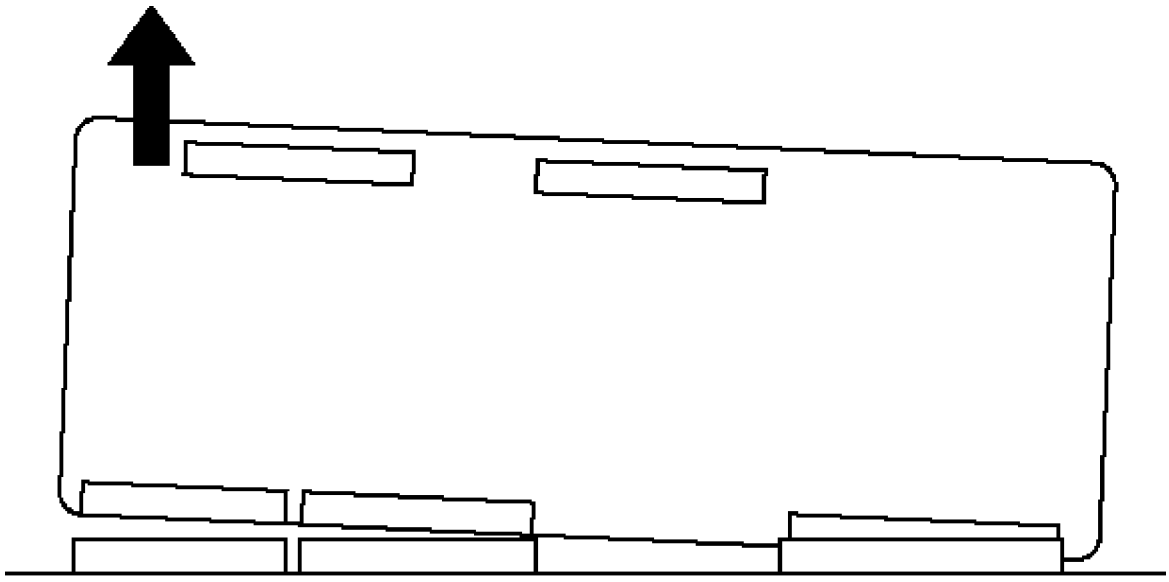


8.11. The RGB P.C.B.

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



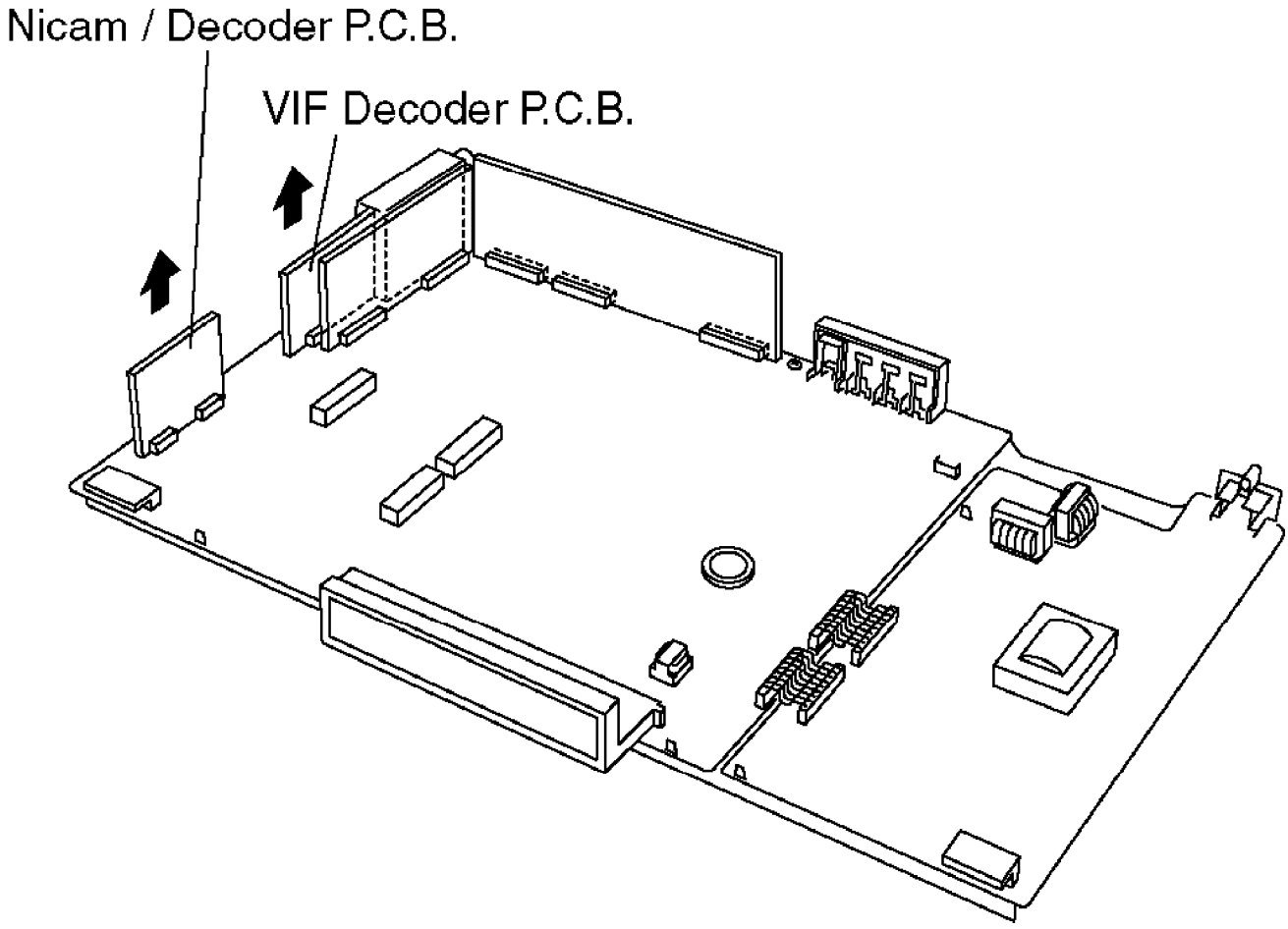
Note:
Pull out the RGB and Scart P.C.B. after removing at a slant.



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

1. Remove the solder.

2. Pull out the VIF Decoder P.C.B. and Nicam/Decoder P.C.B.



9. Service Positions

9.1. Checking procedure

Note:
For the disassembling procedure, see the section 8.

9.2. Checking the Digital P.C.B., RGB P.C.B. and Scart P.C.B.

1. Remove the Top Cover.

2. Remove the Rear Panel.

3. Remove the FFC (RAM Drive - Digital P.C.B.).

4. Remove the Digital P.C.B.

5. Pull out the RGB P.C.B.

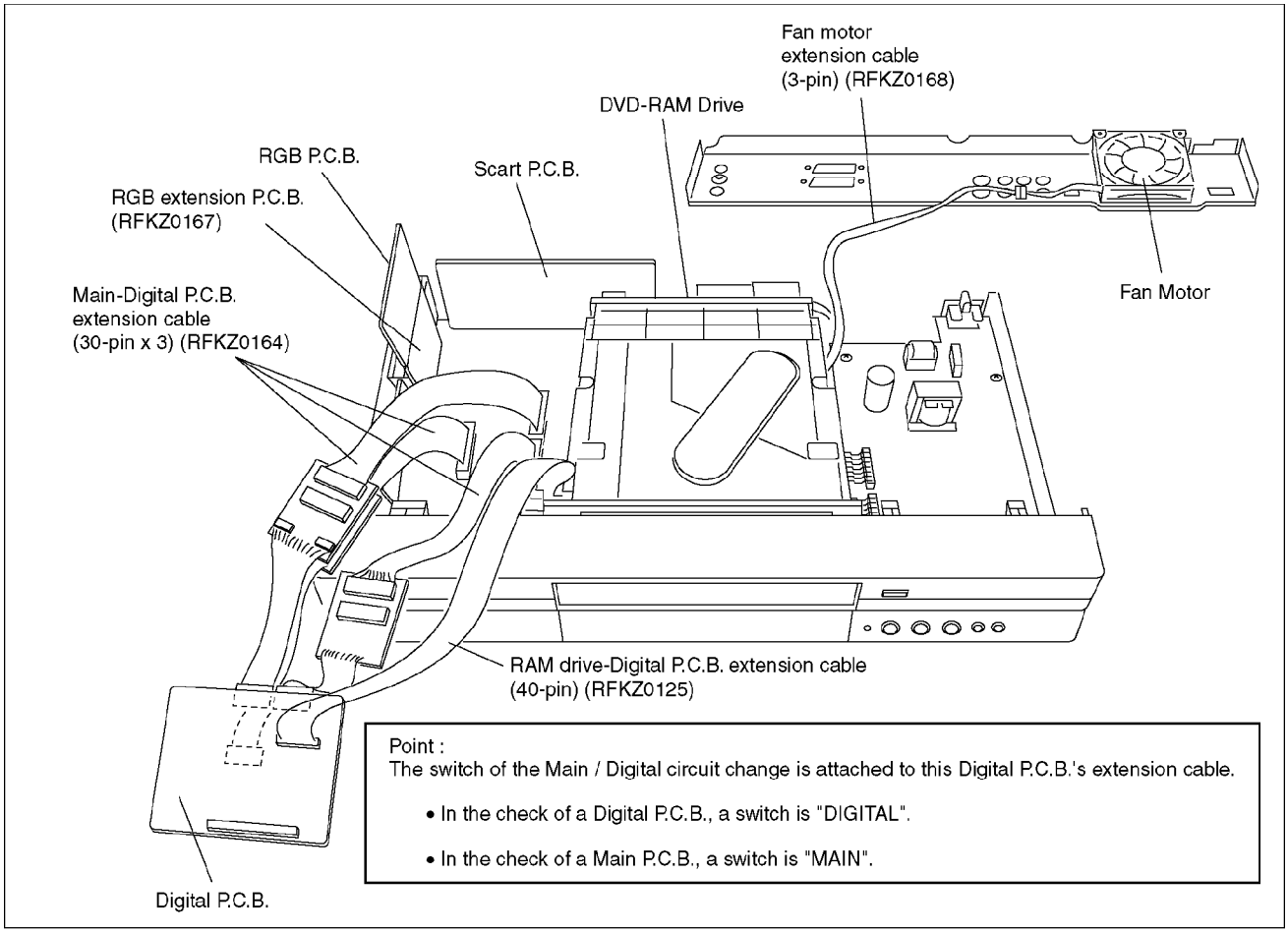
6. Use the extension cable (RFKZ0168) to connect the Main P.C.B. and Fan Motor.

7. Use the extension cable (RFKZ0164) to connect the Main P.C.B. and Digital P.C.B.

8. Use the extension FFC (RFKZ0125) to connect the RAM Drive and Digital P.C.B.

9. Mounting the RGB extension P.C.B. (RFKZ0167) and RGB P.C.B.

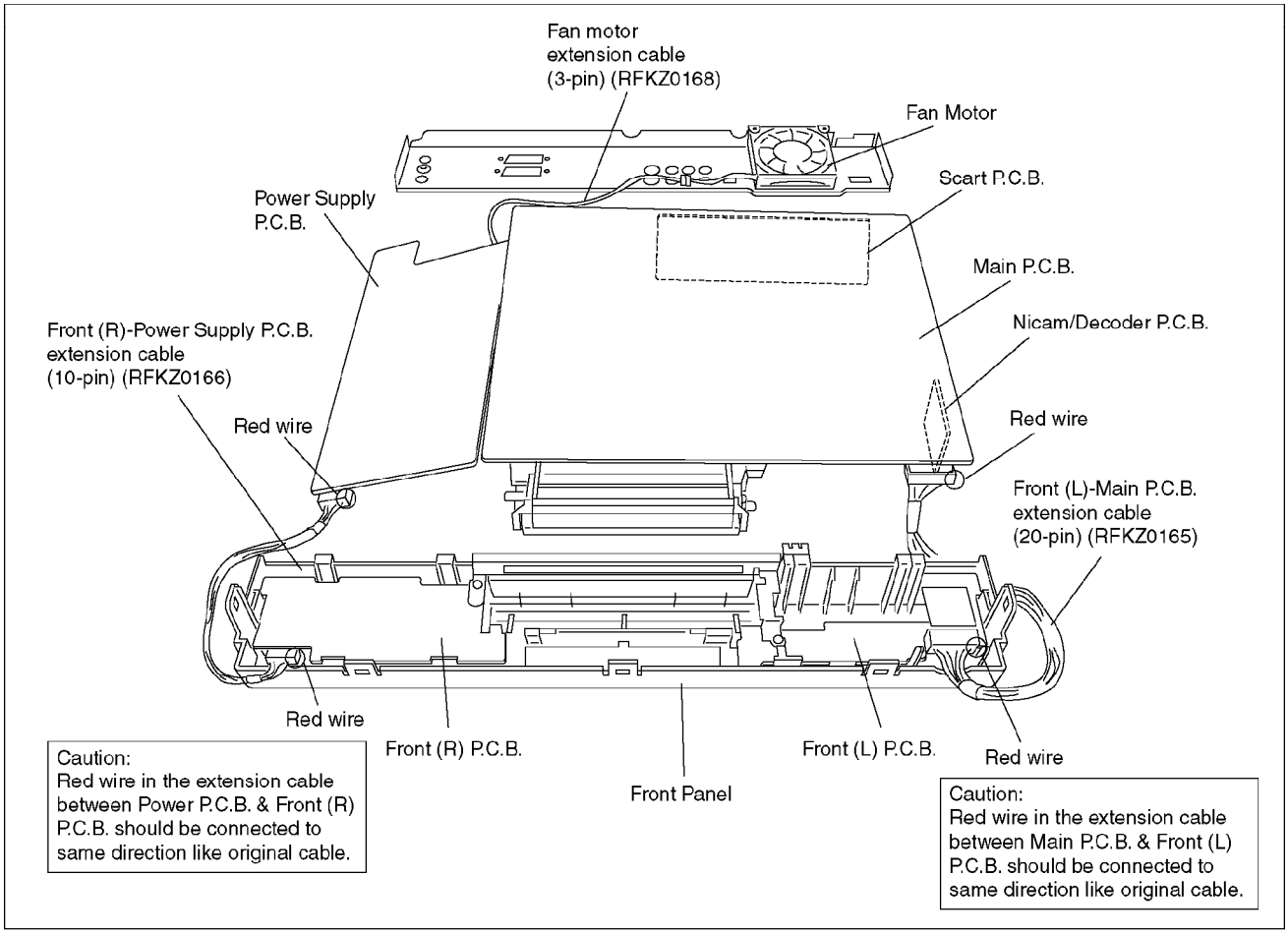
Service tools	
Extension FFC (RAM Drive - Digital P.C.B.)	**RFKZ0125 (40Pin)**
Extension Cable (Main P.C.B. - Digital P.C.B.)	**RFKZ0164 (30Pin x 3)**
RGB extension P.C.B.	**RFKZ0167**
Fan motor extension cable	**RFKZ0168 (3Pin)**



9.3. Checking the Main P.C.B.

1. **Remove the Top Cover.**
2. **Remove the Front Panel.**
3. **Remove the Rear Panel.**
4. **Remove the Power Supply P.C.B., Main P.C.B. and RAM Drive.**
5. **Use the extension cable (RFKZ0168) to connect the Main P.C.B. and Fan Motor.**
6. **Connect the Power Supply P.C.B., Main P.C.B. and RAM Drive.**
7. **Install to the service positions views.**
8. **Use the extension cable (RFKZ0165) to connect the Main P.C.B. and Front P.C.B. (L).**
9. **Use the extension cable (RFKZ0166) to connect the Power supply P.C.B. and Front P.C.B. (R).**

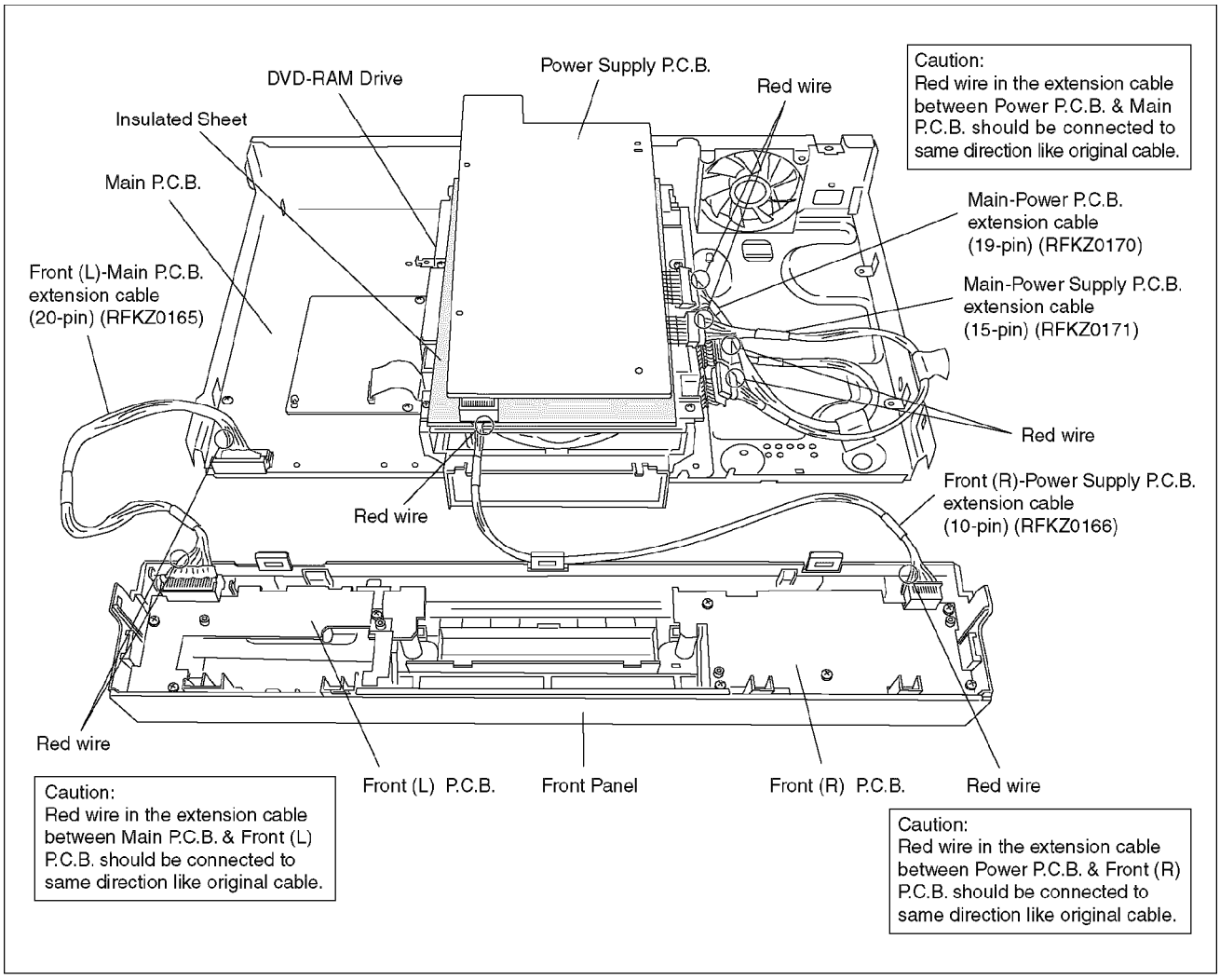
Service tools	
Extension Cable (Main P.C.B. - Front (L) P.C.B.)	RFKZ0165 (20Pin)
Extension Cable (Power supply P.C.B. - Front (R) P.C.B.)	RFKZ0166 (10Pin)
Extension Cable (Fan motor)	RFKZ0168 (3Pin)



9.4. Checking the Power Supply P.C.B.

1. **Remove the Top Cover.**
2. **Remove the Front Panel.**
3. **Remove the screw which fixed Rear Panel and AC Inlet on the Power Supply P.C.B..**
4. **Remove the Power Supply P.C.B., fix it on the insulation sheet.**
5. **Use the extension cables (RFKZ0170,RFKZ0171) to connect the Main P.C.B. and Power Supply P.C.B..**
6. **Use the extension cable (RFKZ0165) to connect the Main P.C.B. and Front (L) P.C.B.**
7. **Use the extension cable (RFKZ0166) to connect the Power Supply P.C.B. and Front (R) P.C.B.**

Service tools	
Extension Cable (Main P.C.B. - Front (L) P.C.B.)	**RFKZ0165 (20-pin)**
Extension Cable (Power supply P.C.B. - Front (R) P.C.B.)	**RFKZ0166 (10-pin)**
Extension Cable (Main P.C.B. - Power supply P.C.B.)	**RFKZ0170 (19-pin)**
Extension Cable (Main P.C.B. - Power supply P.C.B.)	**RFKZ0171 (15-pin)**



10. List of Various Mode

10.1. List of Various Buttons

Each buttons name	Functions
DVD	To turn power on or off on the DVD.
VIDEO Plus+ (Show View/G code)	To set timer program using G code/Show view/VIDEO Plus+
AV	To set AV input on the TV.
Numeric buttons(10key)	To put each number for selecting each functions.
CANCEL	To cancel maker.
SKIP(Reverse)/ (Forward)	To skip chapter or marker position for reverse or forward direction.
STOP	To stop the recording or playback .
PAUSE	To still for playback or pause for recording.
DIRECT NAVIGATOR/ TOP MENU	<PROGRAMME NAVIGATION> To display menu for recoeded program.
	<TOP MENU> (For only VCD or DVD-Video) To display top menu on the VCD or DVD-Video.
Cursor buttons	To move cursor position to select each menu.
FUNCTIONS	To display function menu.
TIMER	To turn timer function on or off.
PROG/CHECK	To display timer porgram menu.
TV	To turn power on or off on the TV.
DVD/TV	To select DVD or Tv operation.
REC	To set the recording.
DIRECT TV REC	To immediately record present TV program that you are watching on the TV. * Scart cable must be connected with TV. * Q-link function must be installed in the TV.
CH UP/DOWN	To select channel on the TV or DVD.
VOLUME UP/ DOWN	To control volume on the TV.
SLOW/SEARCH	<SLOW> To set the slow mode during still.
	<SEARCH> To set the cue or

Each buttons name	Functions
PLAY/X1.3	<PLAY> To set playing back.
	<X1.3> To set the times 1.3 speed for playback by keep pressing playback button for more than 1 second.
PLAY LIST/MENU	<PLAY LIST> To display play list.
	<MENU> (For only VCD or DVD-Video) To display menu on the VCD or DVD-Video.
RETURN	To return to previous condition.
MANUAL SKIP	To skip after 30seconds.
TIME SLIP	(HDD,RAM,DVD-R) To playback program being recorded by setting time duration for each 1minute during recording.
	(HDD,RAM,DVD-R) To playback recorded program by setting time duration for each 1minute.* During recording or playback,playback 30seconds

	<SEARCH> To set the cue or review during playback.		playback,playback 30seconds previous by pressing the button.

Below buttons are located inside slide cover.

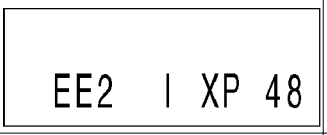
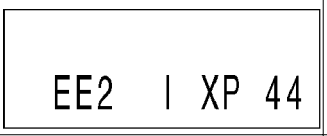
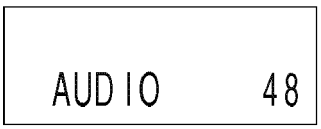
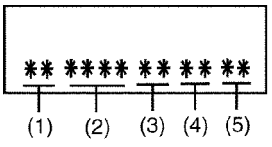
Each buttons name	Functions
REC MODE	To set recording speed.
F Rec	To frexible recording with best quality to caluculate recording rate within remaining recording time.
STATUS	To display product status,time status & present bit-rate.
INPUT SELECT	To set AV input on the DVD.
ERASE	To erase recorded program or playlist during playback.
AUDIO	To select audio with tuner input or playback sound.
FRAME (Reverse/ Forward)	To set frame advance.
POSITION MEMORY	To memorize STOP position for playing back again. * STOP position is erased by turning power off and openning tray.
MARKER	(DVD-RAM/-R)To put marker for making chapter.
AV LINK	To playback on the DVD and select AV1 mode on the TV automatically. * Scart cable must be connected with TV.
DISPLAY	To select disc,playback,picture & sound status.
OPEN/CLOSE	To open or close tray.
SETUP	To display SETUP menu.
DUBBING	To dub recorded program at HDD to DVD-RAM/-R during playback.
EXT LINK	To set EXT LINK mode to record automatically by detecting signal from external equipment.

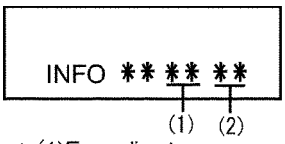
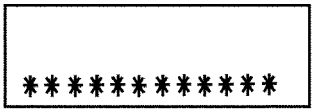
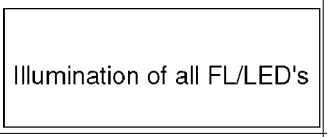
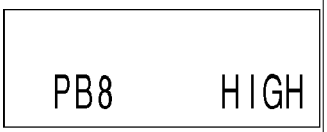
10.2. Special modes at a glance

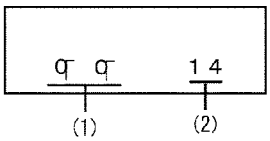
10.2.1. Service modes

Service mode setting: While the power is off, press TIME SLIP, STOP and OPEN / CLOSE simultaneously for five seconds.

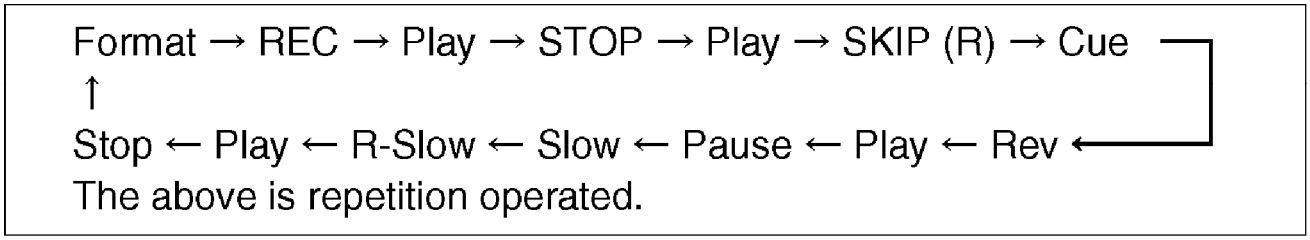
Item		FL display	Key operation
Mode name	Description		Remote controller key
Clear item	Items 1-20 are cleared.	SERVICE MODE	[0] [0] while in service mode
Error code display	FL display of the last error code held by timer	F00 FL display of the error code（U/H/F)	[0] [1] while in service mode
ROM version display	Region code, main, timer and drive firmware versions are displayed on screen and FL tube.	REGION* MAIN ****** TIMER ***** DRIVE **** * Version display	[0] [2] while in service mode
White picture output	White picture output from AV decoder White picture (Chroma: 100%) Switching enabled by subcommand “I/P switch”	Initialization mode (Interlace) WHIT I	[1] [1] while in service mode
Magenta picture output	Magenta picture output from AV decoder Magenta picture (Chroma: 100%) Switching enabled by subcommand “I/P switch”	Initialization mode (Interlace) MAGE I	[1] [2] while in service mode

Item		FL display	Key operation
Mode name	Description		Remote controller key
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) 	[1] [3] while in service mode
		Audio 44.1kHz/ 48kHz switch 	[2] [4] while in RTSC return XP mode *48k ← → 44.1k Toggle switched.
Audio Mute (XTMUTE)	Check whether mute is applied normally by the microcomputer timer.		[2] [1] while in service mode
Audio Mute (XDMUTE)	Check whether is mute applied normally by the Digital P.C.B. (GLUE IC).		[2] [2] while in service mode
Audio pattern output	The audio pattern stored in the internal memory is output (1kHz-18dB).	Initialization mode (Interlace) 	[2] [3] while in service mode
		Audio 44.1kHz / 48kHz switched. 	[2] [4] while in white picture mode *48k ← → 44k Toggle switched.
RAM drive last error	RAM drive error code display. *For details about the drive error code, refer to the manual for the specific RAM drive.	 * (1)Sense key * (2)Additional sense code * (3)Host detail * (4)Access detail * (5)Mecha detail * This information is saved to EEPROM on the RAM drive.	[3] [2] while in service mode

Item		FL display	Key operation
Mode name	Description		Remote controller key
Laser use time display	**To check laser use time of drive**	 ＊(＊)displays the time (in hours). ＊The last working time is incremented in both the DVD/CD Play and Record modes.	**[4] [1] while in service mode**
Laser error count	**The number of times that a laser error has occured due to a defective disc or defective drive is counted and displayed.**	 ＊(＊)is the number of times a laser error occured. ＊This information is saved to EEPROM on the RAM drive.	**[4] [3] while in service mode**
Factors which cause drive error	**The disc condition is displayed when an error occures.**	 ＊(1)Error disc type. ＊(2)Status of error disc. ＊The details can be checked using the separate table. ＊This information is saved to EEPROM on the RAM drive.	**[4] [4] while in service mode**
Disc manufacture ID	**Display the manufacture's ID for a disc on which a drive error has occured.**	 The display example can be checked using the separate table.	**[4] [5] while in service mode**
Illumination of all FL /LEDs	**All FL and LEDs are lit up.**		**[5] [1] while in service mode**
PB8 HIGH signal output	**8pin of RGB output is high.**		**[5] [2] while in service mode**
PB8 MIDDLE signal output	**8pin of RGB output is middle.**		**[5] [3] while in service mode**

Item		FL display	Key operation
Mode name	Description		Remote controller key
Front connection inspection	Press all the main unit's buttons and check the connection with the Main P.C.B..	 *(1)Each time a key is pressed, the grid on the FL display will grow larger. *(2)Total number of main unit buttons.	[5] [4] while in service mode
AV4-AV1 (RGB) SELECT	Video signal at AV4 should output with AV1.	AV4_V-AV 1RGB	[8] [0] while in service mode
AV2-AV1 (VIDEO)	Video signal at AV2 should output with AV1.	AV2_YC-AV 1_V	[8] [1] while in service mode
AV2-AV1 (Y/C)	Video signal at AV2 should output with AV1.	AV2_V-AV 1_YC	[8] [2] while in service mode
AV2-AV1 (RGB)	Video signal at AV2 should output with AV1.	AV2RGB-AV 1_V	[8] [3] while in service mode
Tray OPEN/CLOSE	The RAM drive tray is opened and closed repeatedly.	CYCLE ✱✱✱✱ ✱FL display of the CYCLE count out.	[9] [1] while in service mode * AC power should be turned off to release this operation.
Error code initialization	Initialization of the last error code held by timer (Write in F00)	ERROR INIT	[9] [8] while in service mode
Main unit initialization	All parameters (including timer) are initiaized to the factory setting.	FACT INIT	[9] [9] while in service mode
Aging	See the * Aging Description below.	---	When the power is off, press TIMEWARP + OPEN / CLOSE and CH DOWN simultaneously for five seconds.

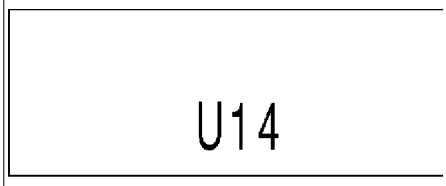
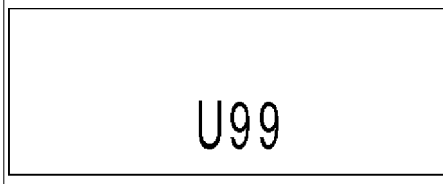
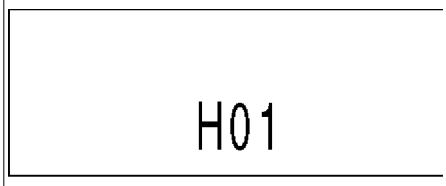
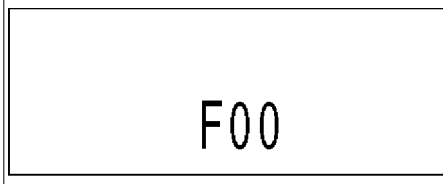
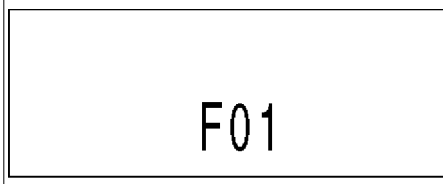
*** Aging Description**

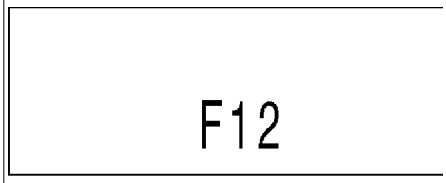
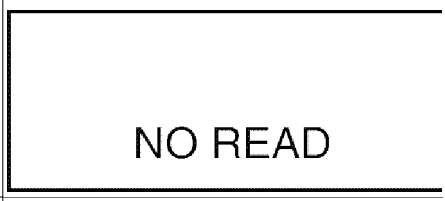


10.2.2. Other special modes

Item		FL display	Key operation
Mode name	Description		Remote controller key
Main unit initialization	*All the main unit's parameters are initialized. *Since a drive region is not specified [0] on replacement drives, it is specified when the drive is replaced.	TEST AV1	When the power is off, press SKIP(R), TIME SLIP and OPEN/ CLOSE simultaneously for five seconds.
Rating Password	The audiovisual level setting password is canceled.	---	Press SKIP (R) and (F) with tray open during Power on.
Shop display LOCK cancel	Ejection of the disc is prohibited.	---	(Main unit) Open the tray, and press SKIP(R) and SKIP(L) simultaneously for five seconds. Press the OPEN/CLOSE button, and make sure that [LOCK] is displayed. Then, with the power on,press STOP and POWER simultaneously for five seconds.
Forced disc eject	Removing a disc that cannnot be ejected.	---	When the power is off, press STOP and CH_UP simultaneously for five seconds.
ATP re-boot	The ATP is set again.	---	In STOP(EE) mode, press STOP and TIME SLIP simultaneously for five seconds.
Child lock release	Release "Child Lock".	X-HOLD	Press ENTER and RETURN by remote controller simultaneously until [X-HOLD] is displayed.
NTSC/PAL system select	To select NTSC or PAL system.	---	Press STOP and OPEN/CLOSE simultaneously for five seconds on the EE mode (power is ON).

10.2.3. List of the U/H/F Error Displays

Display	Diagnosis	Description	FL display
U12	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 71Åé. Main unit is powered off forcibly. For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speedforthe 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.

Display	Diagnosis	Description	FL display
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.
UNSUPPORT	Unsupported disc error	*A disc an unsupported format was played, even though the drive starts normally. *The data format is not supported even though the media type is supported.	
NO READ	Disc read error	*A disc is flawed or dirty. *A poor quality failed to start. *The track information could not be read.	
HARD ERR	Drive error	The drive detected a hard error.	
RECOVER	Restoration operation	Since the power cord fell out during a power failure or operation, it is under restoration operation. *It will OK, if a display disappears automatically. If a display does not disappear, thereis the possibility that defective Digital P.C.B. / RAM drive.	

10.3. The information table of an error generating disk

10.3.1. Error generating disk type

(hexadecimal)	Disk type
00	DVD-ROM/Video
10	Audio-CD
20	2.6GB DVD-RAM
30	4.7GB DVD-RAM
40	DVD-R

10.3.2. Error generating disk state

(hexadecimal)	Contets			
	Sizes of disk	Cartridge disk state	Cartridge state	Disk distinction state
00	12cm	Have not opened yet.	With cartridge	OK
10	12cm	Have not opened yet.	With cartridge	NG
20	12cm	Have not opened yet.	Nakedness	OK
30	12cm	Have not opened yet.	Nakedness	NG
40	12cm	Have been opened.	With cartridge	OK
50	8cm	Have not opened yet.	Nakedness	OK
60	12cm	Have been opened.	Nakedness	OK
70	12cm	Have been opened.	Nakedness	NG
80	8cm	Have not opened yet.	With cartridge	OK
90	8cm	Have not opened yet.	With cartridge	NG
A0	12cm	Have been opened.	With cartridge	NG
B0	8cm	Have not opened yet.	Nakedness	NG
C0	8cm	Have been opened.	With cartridge	OK
D0	8cm	Have been opened.	With cartridge	NG
E0	8cm	Have been opened.	Nakedness	OK
F0	8cm	Have been opened.	Nakedness	NG

10.3.3. Disk production maker ID

No	FL displays	Disk type / Maker name
1	MEI*****	DVD-R by Panasonic
2	PVC*****	DVD-R by Pioneer
3	MCC*****	DVD-R by MITSUBISHI
4	TDK*****	DVD-R by TDK
5	MXL*****	DVD-R by Maxell
6	MCI*****	DVD-R by MITUI CHEMICALS
7	MATSUSHITA	DVD-RAM by Panasonic
8	MXL*	DVD-RAM by Maxell

*** Since a display is arbitrarily set up by the disk producer side, the above-mentioned display may be changed.**

Please make it reference as an example of a display.

11. Abbreviations

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

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

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

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

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

INITIAL/LOGO		ABBREVIATIONS
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 CROSSSIGNAL
	TRON	TRACKING ON
	TRSON	TRAVERSE SERVO ON

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

12. Voltage and Waveform Chart

Note)

- **Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard.**

Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

12.1. Main Power Supply P.C.B.

12.2. Main P.C.B.

12.3. RGB P.C.B.

12.4. Scart P.C.B.

12.5. Nicam/Decoder P.C.B.

12.6. Front L P.C.B.

12.7. Front R P.C.B.

Ref No.	IC1								IC102									
MODE	1	2	3	4	5	6	7	8	K	A	R							
REC	2.2	2.5	0.1	2.0	0	7.6	17.4	5.0	3.7	0	2.5							
PLAY	2.2	2.5	0.1	2.0	0	7.5	17.5	5.0	3.7	0	2.5							
STOP	2.2	2.5	0.1	2.0	0	7.5	17.3	5.0	3.7	0	2.5							

Ref No.	IC301								IC302									
MODE	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8		
REC	13.8	1.7	1.8	-0.1	1.2	1.2	2.5	14.7	4.8	1.2	1.2	-0.1	3.1	3.1	13.7	14.8		
PLAY	13.9	1.7	1.8	-0.1	1.2	1.2	2.5	14.8	4.8	1.2	1.2	-0.1	3.1	3.1	13.6	14.8		
STOP	13.9	1.7	1.8	-0.1	1.2	1.2	2.5	14.7	4.8	1.2	1.2	-0.1	3.1	3.1	13.6	14.7		

Ref No.	Q1			Q2			Q3			Q4			Q101		
MODE	E	C	B	E	C	B	S	G	D	E	C	B	E	C	B
REC	0	0	0.6	0	2.3	0.1	0.2	5.7	580	0	2.3	0	5.2	0.4	5.2
PLAY	0	0	0.6	0	2.3	0.1	0.2	5.2	515	0	2.2	0	5.2	0.4	5.2
STOP	0	0	0.6	0	2.2	0.1	0.2	5.5	538	0	2.2	0	5.2	0.4	5.2

Ref No.	Q102			Q104			Q105			Q106			Q108		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	0	5.2	0.4	0	0	0.7	0.6	0.7	2.7	14.8	14.8	0	14.9	14.8	14.1
PLAY	0	5.2	0.4	0	0	0.7	0.6	0.7	2.7	14.8	14.8	0	14.8	14.8	14.1
STOP	0	5.2	0.4	0	0	0.7	0.6	0.7	2.7	14.8	14.7	0	14.8	14.7	14.0

Ref No.	Q109			Q301			Q302			Q303			Q304		
MODE	E	C	B	S	G	D	E	C	B	E	C	B	E	C	B
REC	0	0.1	0.7	2.0	7.3	4.8	7.3	14.8	6.8	7.3	-0.1	6.8	3.5	4.5	4.2
PLAY	0	0.1	0.7	2.0	7.2	4.9	7.1	14.8	6.7	7.2	-0.1	6.7	3.5	4.5	4.2
STOP	0	0.1	0.7	2.0	7.1	5.0	7.2	14.7	6.7	7.0	-0.1	6.7	3.5	4.5	4.2

Ref No.	Q305			Q306			Q307			Q308			Q309		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	14.8	6.8	14.4	4.2	13.6	4.8	-0.1	7.8	0.2	14.8	14.4	14.5	14.8	0	14.4
PLAY	14.8	6.7	14.4	4.2	13.6	4.8	-0.1	7.8	0.2	14.8	14.4	14.5	14.8	0	14.4
STOP	14.8	6.7	14.4	4.2	13.6	4.8	-0.1	8.0	0.2	14.7	14.4	14.5	14.7	1.2	14.4

Ref No.	IC1501						IC1502									IC1504				
MODE	1	2	3	4	5		1	2	3	4	5	6	7	8		1	2	3	4	5
REC	4.8	6.3	0	5.0	5.0		1.5	1.5	3.4	3.4	0	0	1.8	1.8		4.7	5.1	0	3.3	3.3
PLAY	4.8	6.3	0	5.0	5.0		1.5	1.5	3.4	3.4	0	0	1.8	1.9		4.7	5.1	0	3.3	3.3
STOP	4.8	6.1	0	5.0	5.0		1.5	1.5	3.4	3.4	0	0	1.9	1.9		4.7	5.1	0	3.3	3.3
Ref No.	IC1505						IC1513													
MODE	1	2	3	4	5	6		1	2	3	4	5								
REC	6.4	0	4.7	1.2	0	5.0		1.2	0	4.7	6.4	4.9								
PLAY	6.4	0	4.7	1.2	0	5.0		1.2	0	4.7	6.3	4.9								
STOP	6.2	0	4.7	1.2	0	5.0		1.2	0	4.7	6.1	4.9								
Ref No.	IC3001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	1.5	5.0	1.5	0	2.0	4.8	2.0	0	0.1	2.7	0	2.0	4.8	1.5	5.0	0.1	2.7	0.1	1.5	4.8
PLAY	1.5	5.0	1.5	0	2.0	4.8	2.0	0	0.1	2.7	0	2.0	4.8	1.5	5.0	0.1	2.7	0.1	1.5	4.8
STOP	1.5	5.0	1.5	0	2.0	4.8	2.0	0	0.1	2.7	0	2.0	4.8	1.5	5.0	0.1	2.7	0.1	1.5	4.8
Ref No.	IC3001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	1.5	0	0.1	2.7	0	2.0	5.0	2.7	4.7	4.4	4.2	0	0	0	2.4	1.2	1.6	2.0	0	2.0
PLAY	1.5	0	0.1	2.7	0	2.0	5.0	2.7	4.7	4.4	4.2	0	0	0	2.4	1.2	1.6	2.0	0	2.0
STOP	1.5	0	0.1	2.7	0	2.0	5.0	2.7	4.7	4.4	4.2	0	0	0	2.4	1.2	1.6	2.0	0	2.0
Ref No.	IC3001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52								
REC	5.0	2.0	0	1.7	5.0	0.2	2.0	2.3	1.8	0.8	1.8	2.2								
PLAY	5.0	2.0	0	1.7	5.0	0.2	2.1	2.3	1.8	0.8	1.8	2.2								
STOP	5.0	2.0	0	1.7	5.0	0.2	2.0	2.3	1.7	0.8	1.8	2.2								
Ref No.	IC3002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	0.7	0.7	0	0.7	0.7	0	0	0	0	0	0	0.7	0	0.7	0.7	5.0				
PLAY	0.7	0.7	0	0.7	0.7	0	0	0	0	0	0	0.7	0	0.7	0.7	5.0				
STOP	0.7	0.7	0	0.7	0.7	0	0	0	0	0	0	0.7	0	0.7	0.7	5.0				
Ref No.	IC3003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	2.0	4.9	2.7	0	2.5	4.9	0	2.1	0	1.6	4.9	2.7	0	2.7	4.9	2.1	2.3	-	0	0
PLAY	2.0	4.9	2.7	0	2.5	4.9	0	2.1	0	1.6	4.9	2.7	0	2.7	4.9	2.1	2.3	-	0	0
STOP	2.0	4.9	2.7	0	2.5	4.9	0	2.1	0	1.6	4.9	2.7	0	2.7	4.9	2.1	2.3	-	0	0
Ref No.	IC3003																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	0	4.2	0	2.2	2.2	0	2.0	0	2.1	2.2	0	2.3								
PLAY	0	4.2	0	2.2	2.2	0	2.0	0	2.1	2.1	0	2.3								
STOP	0	4.2	0	2.2	2.2	0	2.0	0	2.1	2.2	0	2.3								

Ref No.	IC3004																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	0.7	0.7	0.7	0.7	0.7	0	0	0	5.0	5.0	5.0	0.7	0.7	0.7	0.7	5.0				
PLAY	0.7	0.7	0.7	0.7	0.7	0	0	0	5.0	5.0	5.0	0.7	0.7	0.7	0.7	5.0				
STOP	0.7	0.7	0.7	0.7	0.7	0	0	0	5.0	5.0	5.0	0.7	0.7	0.7	0.7	5.0				
Ref No.	IC4001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	4.4	4.4	4.4	3.4	4.5	4.5	4.5	3.4	4.4	4.4	4.4	4.4	4.4	4.4	0	0	0	0	0	4.4
PLAY	4.4	4.4	4.4	3.3	4.5	4.5	4.5	3.3	4.4	4.4	4.4	4.4	4.4	4.4	0	0	0	0	0	4.4
STOP	4.4	4.4	4.4	3.3	4.5	4.5	4.5	3.3	4.4	4.4	4.4	4.4	4.4	4.4	0	0	0	0	0	4.4
Ref No.	IC4001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	4.2	0	4.5	4.5	4.4	4.4	0	4.5	4.5	9.1	4.4	4.4								
PLAY	4.2	0	4.5	4.5	4.4	4.4	0	4.5	4.5	9.1	4.4	4.4								
STOP	4.2	0	4.5	4.5	4.4	4.4	0	4.5	4.5	9.1	4.4	4.4								
Ref No.	IC4005									IC4006				IC4007						
MODE	1	2	3	4	5	6	7	8		1	2	3		1	2	3	4	5		
REC	2.5	5.0	0	0	5.0	0	2.5	5.0		2.5	5.0	0		5.0	1.6	0	2.5	5.0		
PLAY	2.5	5.0	0	0	5.0	0	2.5	5.0		2.5	5.0	0		5.0	1.6	0	2.5	5.0		
STOP	2.5	5.0	0	0	5.0	0	2.5	5.0		2.5	5.0	0		5.0	1.6	0	2.5	5.0		
Ref No.	IC4009									IC4010						IC4011				
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5		1	2	3	4	5
REC	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		14.8	9.3	5.0	-	0		6.4	4.5	5.0	-	0
PLAY	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		14.8	9.3	12.0	-	0		6.4	4.5	5.0	-	0
STOP	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		14.5	9.2	12.0	-	0		6.2	4.4	5.0	-	0
Ref No.	IC4012									IC4013				IC7401						
MODE	1	2	3	4	5	6	7	8		1	2	3		1	2	3	4	5		
REC	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		9.1	0	12.0		14.8	4.3	12.0	-	0		
PLAY	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		9.1	0	12.0		14.7	4.3	12.0	-	0		
STOP	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		9.1	0	12.0		14.5	4.1	12.0	-	0		
Ref No.	IC7402							IC7403												
MODE	1	2	3	4	5	6		1	2	3	4	5	6							
REC	6.3	0	6.3	1.2	0	5.0		6.3	0	4.3	1.2	0	5.0							
PLAY	6.3	0	6.3	1.2	0	5.0		6.3	0	4.3	1.2	0	5.0							
STOP	6.1	0	6.1	1.2	0	5.0		6.1	0	4.1	1.2	0	5.0							
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	-28.7	-26.0	-26.4	-26.4	-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
PLAY	-28.9	-28.8	-28.8	-26.0	-26.5	-26.5	-26.0	-26.0	-26.1	-26.1	-26.0	-26.1	4.8	1.9	4.4	2.6	0	5.0	5.0	2.3
STOP	-28.8	-28.8	-28.8	-26.0	-26.4	-26.4	-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
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	-28.9	-28.8	-28.8	-23.2	-26.0	-20.5	-28.8	-23.2	-26.1	-29.5	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	-20.4	-17.6
PLAY	2.3	0	-28.9	-28.9	-28.9	-20.5	-26.1	-20.5	-28.9	-26.1	-26.1	-29.6	-26.0	-23.2	-26.1	-26.0	-28.9	-26.0	-20.4	-20.4
STOP	2.3	0	-28.8	-28.8	-28.8	-28.9	-26.0	-23.2	-28.8	-26.0	-26.0	-29.5	-26.0	-23.2	-26.0	-26.0	-26.0	-26.0	-23.2	-20.4
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	-14.8	-14.8	-20.5	-23.3	-20.5	-20.5	-17.6	-17.7	-14.8	-20.5	-26.1	-26.1	-26.1	-26.1	-26.1	-26.1	-20.4	-26.1	-23.3	5.0
PLAY	-23.2	-23.2	-20.5	-20.5	-23.3	-20.5	-17.6	-23.3	-20.4	-17.6	-26.1	-28.9	-28.9	-23.2	-26.1	-28.9	-20.4	-14.7	-26.1	5.0
STOP	-20.4	-17.6	-23.3	-17.7	-23.3	-17.7	-20.4	-17.6	-20.4	-14.8	-26.1	-26.1	-26.1	-26.0	-26.0	-26.0	-23.2	-20.3	-26.0	5.0
Ref No.	IC7501																			
MODE	61	62	63	64																
REC	-28.9	-28.9	-28.9	-28.9																
PLAY	-28.9	-28.9	-28.9	-28.9																
STOP	-28.8	-28.8	-28.8	-28.8																
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	4.8	1.7	4.7	0	0	0	0	0	1.1	1.1	4.8	2.2	0	2.2	4.8	4.8	5.0	5.0	0.3	4.8
PLAY	4.8	1.7	4.7	0	0	0	0	0	1.1	1.1	4.8	2.2	0	2.2	4.8	4.8	5.0	5.0	0.3	4.8
STOP	4.8	1.7	4.7	0	0	0	0	0	1.1	1.1	4.8	2.2	0	2.2	4.8	4.8	5.0	5.0	0.3	4.8
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	4.4	4.1	0	1.7	1.4	1.4	4.8	0	0	0.3	5.0	0.5	4.8
PLAY	0	0	0	0	0	0	4.8	4.4	4.1	0	1.7	1.4	1.4	4.8	0	0	0.3	5.0	0.5	4.8
STOP	0	0	0	0	0	0	0	4.8	0.2	0	1.7	1.4	1.4	4.8	4.8	0	0.3	0.2	0.2	0.1
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	2.6	2.6	4.4	0	4.8	0	0	0	0	0	0	4.8	0	0	4.8	4.8	0	0	0.1
PLAY	0	2.6	2.6	4.4	0	4.8	0	0	0	0	0	0	4.8	0	0	4.8	4.8	0	0	0.1
STOP	0	0	0	5.0	0	4.8	0	0	0	0	0	0	4.8	0	0	4.8	4.8	0	0	0.1
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	0.1	4.8	4.8	2.4	0	0	0	0	4.8	4.8	0	0	0	0	0	0	4.8	4.8	0	5.1
PLAY	0.1	4.8	4.8	2.4	0	0	0	0	4.8	4.8	0	0	0	0	0	0	4.8	0	0	5.1
STOP	0.1	4.8	4.8	2.4	0	0	0	0	4.8	4.8	0	0	0	0	0	0	4.8	0	0	5.1
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	4.9	4.8	4.8	4.8	0	0	4.9	4.8	0	0	0	1.9	5.0	4.9	4.8	4.8	0	0	2.1
PLAY	0	4.9	4.8	4.8	4.8	0	0	4.8	4.8	0	0	0	1.9	5.0	4.9	4.8	4.8	4.9	0	2.1
STOP	0	5.0	4.8	4.8	4.8	0	0	4.8	4.8	0	0	0	4.8	5.0	5.0	4.8	4.8	0	0	2.1
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	2.0	1.3	0	4.8	2.0	0	2.2	5.0				
STOP	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				

Ref No.	IC7503						IC7504						IC7505						
MODE	1	2	3	4	5		1	2	3	4	5		1	2	3	4	5		
REC	1.2	0	4.6	6.4	5.0		5.1	5.1	0	-	-		2.2	3.4	0	-	-		
PLAY	1.2	0	4.6	6.4	5.0		5.1	5.1	0	-	-		2.2	3.4	0	-	-		
STOP	1.2	0	4.6	6.2	5.0		5.1	5.1	0	-	-		2.2	3.4	0	-	-		
Ref No.	IC7506								IC7507										
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8		
REC	0	0	0	0	4.1	4.4	4.8	4.8		5.4	1.7	1.7	0	1.7	1.7	1.7	14.8		
PLAY	0	0	0	0	4.1	4.4	4.8	4.8		5.4	1.7	1.7	0	1.7	1.7	1.7	14.8		
STOP	0	0	0	0	4.2	4.4	4.8	4.8		5.4	1.7	1.7	0	1.7	1.7	1.7	14.5		
Ref No.	IC7508																		
MODE	1	2	3	4	5														
REC	0	0	-	4.8	4.8														
PLAY	0	0	-	4.8	4.8														
STOP	0	0	-	4.8	4.8														
Ref No.	Q3001				Q3002				Q3003				Q3004				Q3005		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	1.9	5.0	2.5		2.6	0	2.0		1.9	5.0	2.5		2.6	0	2.0		2.2	0	1.6
PLAY	1.9	5.0	2.5		2.6	0	2.0		1.9	5.0	2.5		2.6	0	2.0		2.2	0	1.6
STOP	1.9	5.0	2.5		2.6	0	2.0		1.9	5.0	2.5		2.6	0	2.0		2.2	0	1.6
Ref No.	Q3006				Q3007				Q3008				Q3009				Q3010		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	2.2	0	1.6		3.2	0	2.5		1.8	0	1.1		1.6	0	0.9		1.6	0	0.9
PLAY	2.2	0	1.6		3.2	0	2.5		1.8	0	1.1		1.5	0	0.9		1.5	0	0.9
STOP	2.2	0	1.6		3.2	0	2.5		1.8	0	1.1		1.6	0	0.9		1.6	0	0.9
Ref No.	Q3011				Q4004				Q4006				Q4007				Q4008		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	1.6	0	0.9		5.1	-0.2	5.1		0	0	-0.3		0	0	-0.3		0	0	-0.3
PLAY	1.6	0	0.9		5.1	-0.1	5.1		0	0	-0.2		0	0	-0.2		0	0	-0.2
STOP	1.6	0	0.9		5.1	0	5.1		0	0	-0.2		0	0	-0.2		0	0	-0.1
Ref No.	Q4009				Q7401				Q7402				Q7501				Q7502		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	0	0	-0.3		0	12.0	0		1.0	0	0.4		-26.5	5.0	-26.5		-26.5	5.0	-26.5
PLAY	0	0	-0.3		0	12.0	0		1.0	0	0.4		-26.6	5.0	-26.5		-26.6	5.0	-26.5
STOP	0	0	-0.1		0	12.0	0		1.0	0	0.4		-26.5	5.0	-26.4		-26.5	5.0	-26.4
Ref No.	Q7503				Q7504				Q7505				Q7506				Q7507		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	0	4.2	-1.2		0	-1.2	-1.2		2.6	0	2.0		2.0	5.0	1.6		2.7	0	2.0
PLAY	0	4.1	-1.2		0	-1.2	-1.1		2.6	0	2.0		2.0	5.0	1.6		2.7	0	2.0
STOP	0	4.5	-1.1		0	-1.1	-1.1		2.6	0	2.0		2.0	5.0	1.6		2.7	0	2.0
Ref No.	Q7508				Q7509				Q7510				Q7511				Q7512		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	2.0	5.0	1.6		3.5	4.8	3.6		1.6	0	1.0		0	5.0	0		0	0	0.5
PLAY	2.0	5.0	1.6		3.5	4.8	3.6		1.6	0	1.0		0	5.0	0		0	0	0.5
STOP	2.0	5.0	1.6		3.5	4.8	3.7		1.6	0	1.0		0	5.0	0		0	0	0.5
Ref No.	Q7513				Q7515				Q7516										
MODE	E	C	B		1	2	3		E	C	B								
REC	0	4.3	0		5.4	14.8	4.8		4.8	0	4.8								
PLAY	0	4.3	0		5.4	14.8	4.8		4.8	0	4.8								
STOP	0	4.3	0		5.4	14.5	4.8		4.8	0	4.8								
Ref No.	QR4001				QR4002				QR4003				QR4004				QR4005		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	0	4.5	0		0	0	4.7		0	0	2.3		0	5.1	0		0	5.1	0
PLAY	0	4.5	0		0	0	4.7		0	0	2.3		0	5.1	0		0	5.1	0
STOP	0	4.4	0		0	0	4.7		0	0	2.4		0	5.1	0		0	5.1	0
Ref No.	QR4006				QR4007				QR4012				QR7401				QR7402		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	0	0	4.7		0	9.3	0		5.1	0	4.9		0	4.3	0		0	5.2	0
PLAY	0	0	4.7		0	9.3	0		5.1	0	4.9		0	4.3	0		0	5.2	0
STOP	0	0	4.7		0	9.2	0		5.1	0	5.0		0	4.3	0		0	5.2	0
Ref No.	QR7403				QR7404				QR7405				QR7406				QR7407		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	0	0	5.2		12.0	-0.3	11.9		0	11.9	0		0	-0.1	0		0	0	-0.1
PLAY	0	0	5.2		12.0	12.0	0		0	0.1	4.8		0	-0.3	0		0	0	-0.3
STOP	0	0	5.2		12.0	-0.1	11.9		0	11.9	0		0	-0.1	0		0	0	-0.1
Ref No.	QR7501				QR7502				QR7503										
MODE	E	C	B		E	C	B		E	C	B								
REC	0	5.0	0		4.8	0	4.8		0	0	2.2								
PLAY	0	5.0	0		4.8	0	4.8		0	0	2.2								
STOP	0	5.0	0		4.8	0	4.8		0	0	2.2								

Ref No.	IC3501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	0	2.9	1.7	2.5	1.7	3.2	2.7	0	1.9	4.9	4.9	2.2	2.2	3.4	3.9	3.9	3.3	4.0	3.3
PLAY	0	0	3.0	1.7	2.5	1.7	3.2	2.8	0	1.9	4.9	4.9	2.2	2.2	3.4	3.9	3.9	3.4	4.1	3.3
STOP	0	0	3.0	1.7	2.5	1.7	3.2	2.8	0	1.9	4.9	4.9	2.2	2.2	3.4	3.9	3.9	3.9	4.1	3.3

Ref No.	IC3502																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	0	0	0.7	2.2	2.2	0	0	0	0	0	0	2.5	2.4	2.5	0	5.0				
PLAY	0	0	0.7	2.2	2.2	0	0	0	0	0	0	2.5	2.4	2.5	0	5.0				
STOP	0	0	0.7	2.2	2.2	0	0	0	0	0	0	2.5	2.4	2.5	0	5.0				

Ref No.	IC3509																			
MODE	1	2	3	4	5															
REC	2.6	0.7	0	4.9	4.9															
PLAY	2.6	0.7	0	4.9	4.9															
STOP	2.6	0.7	0	4.9	4.9															

Ref No.	Q3501				Q3502				Q3503				Q3504				Q3505			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	1.3	5.0	1.9		1.3	5.0	1.9		1.3	5.0	1.9		0	0	0.7		0.9	4.1	1.7	
PLAY	1.3	5.0	1.9		1.3	5.0	1.9		1.3	5.0	1.9		0	0	0.7		1.0	4.1	1.7	
STOP	1.3	5.0	1.9		1.3	5.0	1.9		1.3	5.0	1.9		0	0	0.7		1.0	4.1	1.7	

Ref No.	Q3506				Q3507				Q3508				Q3509				Q3510			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	4.9	2.3	4.1		2.9	0	2.3		1.8	0	1.1		1.3	5.0	1.9		1.3	5.0	1.9	
PLAY	4.9	2.3	4.1		2.9	0	2.3		1.8	0	1.1		1.3	5.0	1.9		1.3	5.0	1.9	
STOP	4.9	2.3	4.1		2.9	0	2.3		1.8	0	1.1		1.3	5.0	1.9		1.3	5.0	1.9	

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	5.5	5.5	0	0	1.6	0	2.1	0	0	5.5	5.5	4.9	2.2	12.0	5.5	5.5	0	1.8	3.5	0
PLAY	5.5	5.5	0	0	1.5	0	2.1	0	0	5.5	5.5	4.9	2.1	12.0	5.5	5.5	0	1.8	3.5	11.6
STOP	5.5	5.5	0	0	1.6	0	2.1	0	0	5.5	5.5	4.9	2.2	12.0	5.5	5.5	0	1.8	3.5	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	1.7	5.0	2.0	2.0	0	1.7	5.0	4.9	4.9	0	5.5	5.5	0	5.5	5.5	0	4.9	4.9
PLAY	4.2	4.4	1.7	5.0	2.0	2.0	0	1.7	5.0	4.9	4.9	0	5.5	5.5	0.1	5.5	5.5	0	4.9	4.9
STOP	4.2	4.4	1.7	5.0	2.0	2.0	0	1.7	5.0	4.9	4.9	0	5.5	5.5	0	5.5	5.5	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.	IC3902																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	0	0.7	0	0.7	0	-	0.7	0	2.3	2.4	-	2.3	2.4	2.3	2.4	5.0				
PLAY	0	0.7	0	0.7	0	-	0.7	0	2.3	2.4	-	2.3	2.4	2.3	2.4	5.0				
STOP	0	0.7	0	0.7	0	-	0.7	0	2.3	2.4	-	2.3	2.4	2.3	2.4	5.0				

Ref No.	Q3901				Q3905				Q3906				Q3908				Q3909			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	2.1	5.0	2.7		0.3	0.3	0		5.0	0.2	5.0		5.0	-0.2	5.0		0	0	-0.1	
PLAY	2.1	5.0	2.7		0.3	0.3	0		5.0	0.3	5.0		5.0	-0.2	5.0		0	0	-0.4	
STOP	2.1	5.0	2.7		0.2	0.2	0		5.0	0.2	5.0		5.0	-0.3	5.0		0	0	-0.3	

Ref No.	Q3910		
MODE	E	C	B
REC	0	0	-0.3
PLAY	0	0	-0.4
STOP	0	0	-0.3

Ref No.	QR3908				QR3909				QR3913				QR3914				QR3915			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	0	3.5		0	5.0	0		0	5.0	0		0.3	4.2	0		0.3	4.4	0	
PLAY	0	0	3.5		0	5.0	0		0	5.0	0.2		0.3	4.2	0		0.3	4.3	0	
STOP	0	0	3.5		0	5.0	0		0	5.0	0		0.2	4.2	0		0.2	4.4	0	

Ref No.	IC7301																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	2.5	2.5	5.0	0	0	4.9	0	-	0	0.7	0	0.3	0	1.5	1.5	0	0	2.0	0	0
PLAY	2.5	2.5	5.0	0	0	4.9	0	-	0	0.4	0	0.3	0	1.5	1.5	0	0	2.0	0	0
STOP	2.5	2.5	5.0	0	0	4.9	0	-	0	0.4	0	0.4	0	1.5	1.5	0	0	2.0	0	0

Ref No.	IC7301																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	3.2	0	1.9	1.9	1.9	4.9	0	5.0	4.4	4.2	0.5	0.5	0.5	0.6	5.0	0	4.9	2.5	2.5	2.5
PLAY	3.2	0	1.9	1.9	1.9	4.9	0	5.0	4.4	4.2	0.5	0.5	0.5	0.5	5.0	0	4.9	2.5	2.5	2.5
STOP	3.2	0	1.9	1.9	1.9	4.9	0	5.0	4.4	4.2	0.7	0.7	0.6	0.6	5.0	0	4.9	2.5	2.5	2.5

Ref No.	IC7301																			
MODE	41	42	43	44																
REC	2.5	4.9	2.5	0																
PLAY	2.5	4.9	2.5	0																
STOP	2.5	4.9	2.5	0																

Ref No.	IC7302																			
MODE	1	2	3																	
REC	5.0	0	4.9																	
PLAY	5.0	0	4.9																	
STOP	5.0	0	4.9																	

Ref No.	QR7001																			
MODE	E	C	B																	
REC	0	3.6	0																	
PLAY	0	3.6	0																	
STOP	0	8.8	0																	

Ref No.	QR7801																			
MODE	E	C	B																	
REC	0	3.6	0																	
PLAY	0	3.6	0																	
STOP	0	3.6	0																	

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	1.6	3.3	3.3	5.0	5.0	0	-	0	-	0	-	0	-	0	0.9	1.0	0	1.0	0	1.2
PLAY	1.6	3.3	3.3	5.0	5.0	0	-	0	-	0	-	0	-	0	0.9	0.9	0	0.9	0	1.2
STOP	1.6	3.3	3.3	5.0	5.0	0	-	0	-	0	-	0	-	0	0.9	0.9	0	0.9	0	1.2

Ref No.	P9001																			
MODE	21	22	23	24	25	26	27	28	29	30										
REC	0	1.8	0	2.2	1.8	0.2	0	1.7	0	2.0										
PLAY	0	1.8	0	2.2	2.1	0.2	0	1.7	0	2.0										
STOP	0	1.8	0	2.2	2.1	0.2	0	1.6	0	2.0										

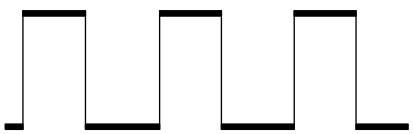
Ref No.	P9002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	5.0	3.3	6.4	1.5	1.8	1.8	0	-	0	0	0	2.5	0	2.5	0	0	1.6	0	2.5	0
PLAY	5.0	3.3	6.4	1.5	1.9	1.9	0	-	0	0	0	2.5	0	2.5	0	0	1.6	0	2.5	0
STOP	5.0	3.3	6.2	1.5	1.9	1.9	0	-	0	0	0	2.5	0	2.5	0	0	1.6	0	2.5	0

Ref No.	P9002																			
MODE	21	22	23	24	25	26	27	28	29	30										
REC	2.5	5.0	2.4	0	0	1.8	1.5	6.4	3.3	5.0										
PLAY	2.5	5.0	2.4	0	0	1.9	1.5	6.4	3.3	5.0										
STOP	2.5	5.0	2.4	0	0	1.9	1.5	6.2	3.3	5.0										

Ref No.	P9003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	4.7	5.0	5.0	3.3	5.0	-	0.1	0.1	0.1	5.0	-	0	0	3.3	3.3	4.9	-	-	0
PLAY	0	4.7	5.0	5.0	3.3	5.0	-	0.1	0.1	0.1	5.0	-	0	0	3.4	3.4	4.9	-	-	0
STOP	0	4.7	5.0	5.0	3.3	5.0	-	0.1	0.1	0.1	5.0	-	0	0	3.4	3.4	4.9	-	-	0

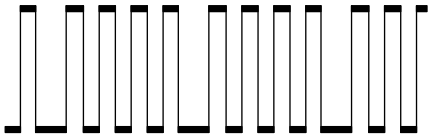
Ref No.	P9003																			
MODE	21	22	23	24	25	26	27	28	29	30										
REC	5.0	4.9	5.0	4.8	4.8	5.0	5.0	-	-	-										
PLAY	5.0	4.9	5.0	4.8	4.8	5.0	5.0	-	-	-										
STOP	5.0	4.9	5.0	4.8	4.8	5.0	5.0	-	-	-										

WF No. P9001-15 (REC/PLAY)



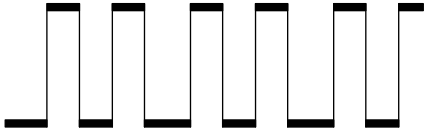
0.6Vp-p(20usec/div)

WF No. P9001-16 (REC/PLAY)



0.6Vp-p(20usec/div)

WF No. P9001-18 (REC/PLAY)



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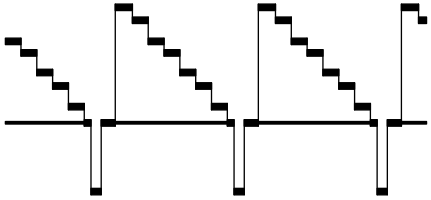
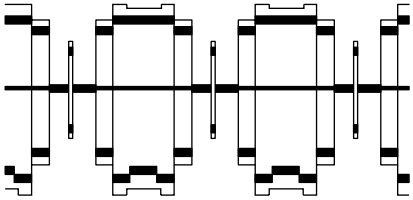
WF No. P9001-20 (REC/PLAY)



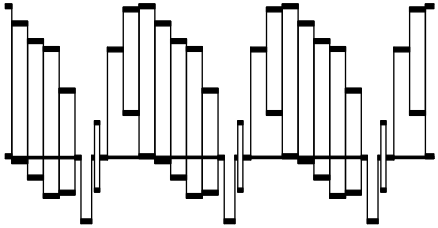
0.9Vp-p(20usec/div)

WF No. P9001-22 (REC/PLAY)



1.0Vp-p(20usec/div)

WF No. P9001-28 (REC/PLAY)



2.0Vp-p(20usec/div)

WF No. P9001-12 (REC/PLAY)

1.7Vp-p(1msec/div)

WF No. P9001-14 (REC/PLAY)

1.7Vp-p(1msec/div)

WF No. P9001-21 (REC/PLAY)

1.8Vp-p(1msec/div)

WF No. P9001-19 (REC/PLAY)

1.8Vp-p(1msec/div)

12.8. P9001 Connector

12.9. P9001 Waveform

13. Block Diagram

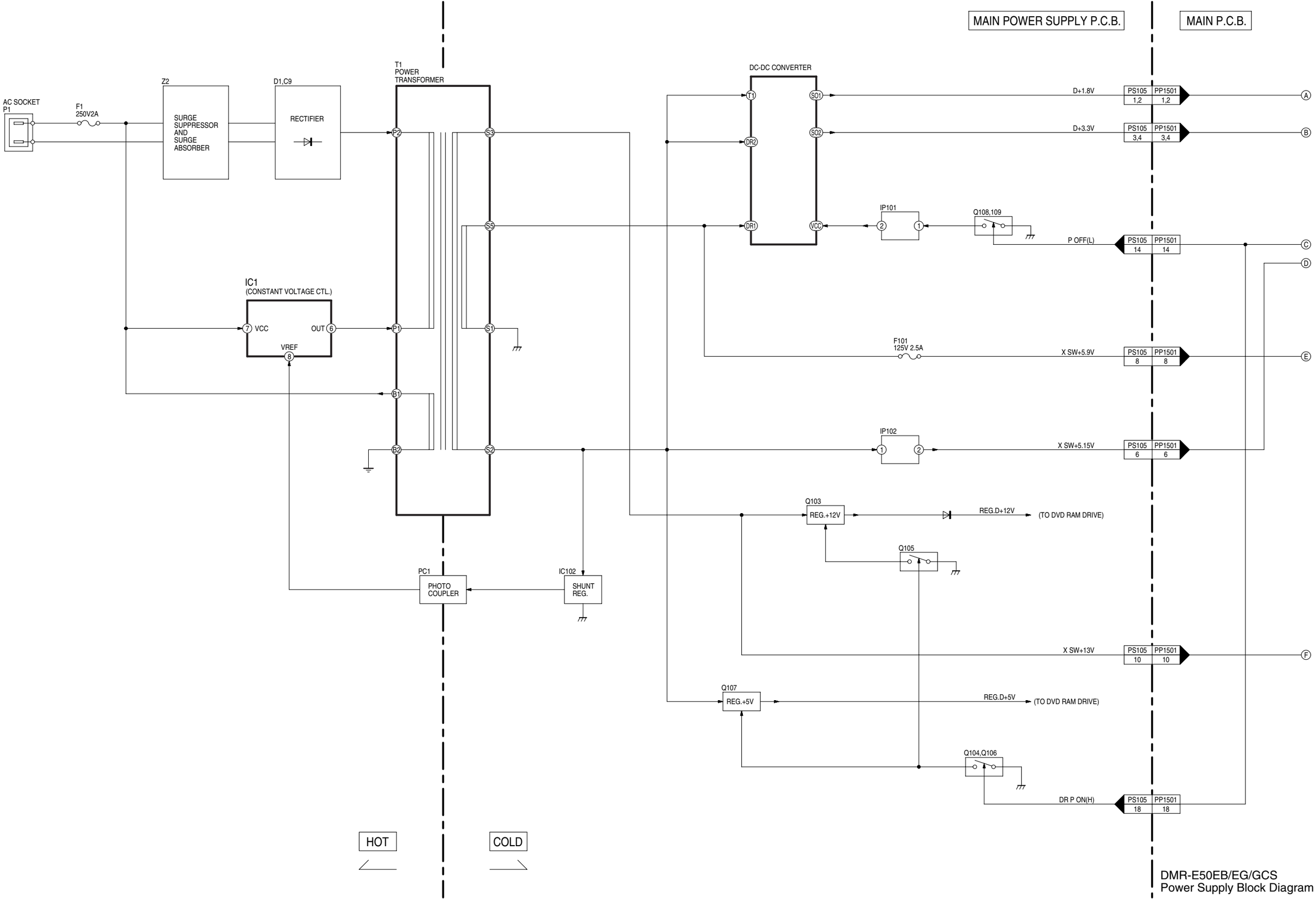
13.1. Power Supply Block Diagram

13.1.1. Integrated Circuit Power Supply Chart (PSC 1 - PSC 19)

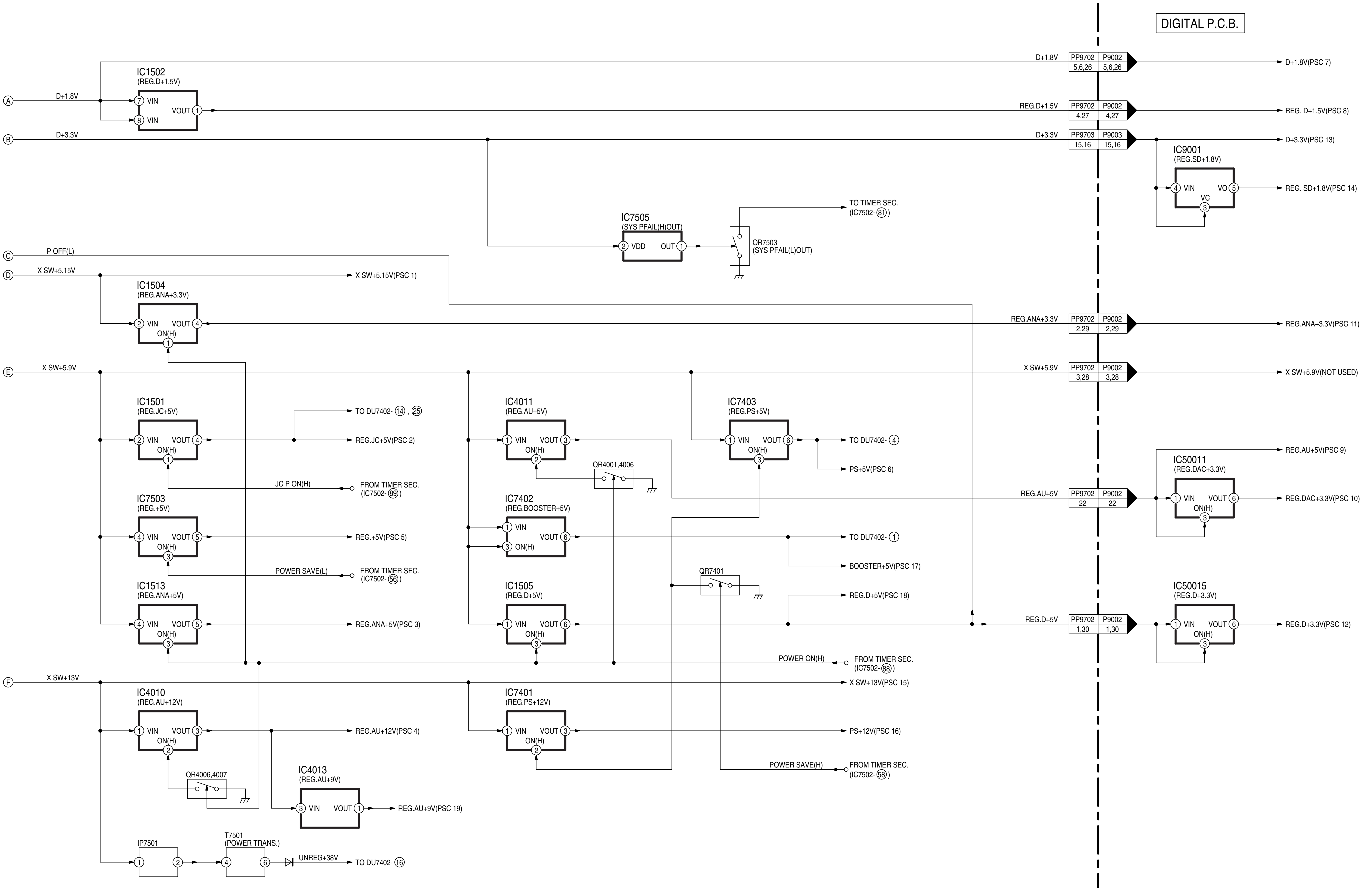
13.2. Analog Video Block Diagram

13.3. Analog Audio Block Diagram

13.4. Timer Block Diagram



DMR-E50EB/EG/GCS
Power Supply Block Diagram



DMR-E50EB/EG/GCS
Power Supply Block Diagram

DMR-E50EB/EG/GCS
Power Supply Block Diagram

PSC 1. X SW+5.15V

Ref. No.	Pin. No.	Schematic Name
IC7502	15,34,69	Timer (Main)
	105,106,108	
	112	
IC7504	2	
IC7506	8	
IC7508	5	

PSC 2. REG.JC+5V

Ref. No.	Pin. No.	Schematic Name
IC3001	2,15,27	Video I/O (Main)
	41,45	

PSC 3. REG.ANA+5V

Ref. No.	Pin. No.	Schematic Name
IC3003	2,6,11,15	Video I/O (Main)
IC3501	11,12	RGB P.C.B.
IC3509	5	

PSC 4. REG.AU+12V

Ref. No.	Pin. No.	Schematic Name
IC4009	8	Audio Main (Main)
IC4012	8	

PSC 5.REG.+5V

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

PSC 6. PS+5V

Ref. No.	Pin. No.	Schematic Name
IC3002	16	Video I/O (Main)
IC3004	16	
IC3502	16	RGB P.C.B.
IC3901	24	Scart P.C.B.
IC3902	16	

PSC 7. D+1.8V

Ref. No.	Pin. No.	Schematic Name
IC3203	39,64,88	AV Input (Digital)
	109,131,156	
IC3402	7,19,32,44	AV Encoder (Digital)
	59,71,84,96	
	111,123,136	
	148,163,175	
	188,198	
IC3406	26,69,107	
	153	

PSC 8. REG.D+1.5V

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

PSC 9. REG.AU+5V

Ref. No.	Pin. No.	Schematic Name
IC4402	8	AV Input (Digital)
IC4403	5	
IC50010	6	AV Decoder (Digital)

PSC 10. REG.DAC+3.3V

Ref. No.	Pin. No.	Schematic Name
IC4403	14	AV Input (Digital)
IC50010	5	AV Decoder (Digital)

PSC 11. REG.ANA+3.3V

Ref. No.	Pin. No.	Schematic Name
IC3203	2,11,12,21	AV Input (Digital)
	26,30	
IC3402	30	AV Encoder (Digital)
IC50003	105,112,118	AV Decoder (Digital)

PSC 12. REG.D+3.3V

Ref. No.	Pin. No.	Schematic Name
IC50001	5,6	AV Decoder (Digital)

PSC 13. D+3.3V

Ref. No.	Pin. No.	Schematic Name
IC3201	1,7,13,25	AV Input (Digital)
	34,38,44	
IC3202	7,12,19,25	
	30,37,42,48	
IC3203	31,38,45	
	52,58,65	
	71,78,84	
	91,108,119	
	130,137,145	
	159,166,179	
IC3204	5	
IC3205	5	
IC3401	1,3,9,15,29	AV Encoder (Digital)
	35,41,43,49	
	55,75,81	
IC3402	4,14,22,34	
	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	

PSC 13. D+3.3V

Ref. No.	Pin. No.	Schematic Name
IC3406	7,15,31,43	AV Encoder (Digital)
	47,54,70,81	
	88,91,99,106	
	114,125,130	
	138,152,168	
IC50001	1,11,14,19	AV Decoder (Digital)
IC50002	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	
IC50004	1,3,9,14	
	27,43,49	
IC50005	5	
IC50006	5	
IC50013	5	
IC50014	14	
IC6001	5	Syscon (Digital)
IC6002	1,3,9,14	
	27,43,49	
IC6004	2,20,33,43	
	54,74,110	
	121,132,152	
	164,170,183	
	202	
IC6006	23	
IC6007	7,18,31,42	
IC6701	29,57,82	GLUE (Digital)
	103,134,161	
	184,204,206	
IC6702	5	
IC6703	23,44	
IC6704	12,37	

14.REG.SD+1.8V

Ref. No.	Pin. No.	Schematic Name
IC6004	21,55,75	Syscon (Digital)
	111,122,153	
	184,203	

15.X SW+13V

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

16. PS+12V

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

17.BOOSTER+5V

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

PSC 18.REG.D+5V

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

PSC 19.REG.AU+9V

Ref. No.	Pin. No.	Schematic Name
IC4001	30	Audio Main (Main)

MAIN P.C.B.

MAIN P.C.B.

AV4
JK3001
REAR JACK

SCART P.C.B.

:REC SIGNAL
:PB SIGNAL

FROM DIGITAL

P9001 PP9701 20 20 — Y OUT DM — FL3004 — Q3008 AMP

P9001 PP9701 22 22 — C OUT DM — FL3003 — Q3007 AMP

IC3003
(VIDEO BUFFER)
Y — 6M LPF
C — 1.5-6M BPF
MIX
6dB 75ohm
Y OUT
C OUT
V OUT

CPN Y OUT
CPN C OUT
CPS V OUT

S-VIDEO
CPN OUT
V OUT

E50EB
DU7402
TUNER PACK
VIDEO IN
RFC V OUT

FROM TIMER IC7502-51 — YC(H)
AV2 THROUGH(L) — FROM TIMER IC7502-50

IC3002
(SELECTOR SW.)
C IN
R IN
H
L

IC3004
(SELECTOR SW.)
R/C OUT
B OUT
G/Y OUT
R/C IN
G IN
B IN

P9001 PP9701 18 18 — RPROUT DM — FL3006 — Q3010 AMP — RPROUT DM — R IN

P9001 PP9701 16 16 — BPBOUT DM — FL3007 — Q3011 AMP — BPBOUT DM

P9001 PP9701 15 15 — GPYOUT DM — FL3005 — Q3009 AMP — GPYOUT DM

R OUT
B OUT
G OUT

PP3005 PS3901 20 20 — R/C OUT
PP3005 PS3901 18 18 — B OUT
PP3005 PS3901 16 16 — G OUT

CPS V OUT
CPN Y OUT

PP7401 PS3901 12 12
PP7401 PS3901 10 10

IC3902
(RGB BUFFER)
6dB 75ohm

RED/C OUT
BLUE OUT
GREEN OUT
VIDEO/Y OUT
VIDEO IN

AV1
JK3905
TV

R/C IN
G IN
B IN

PP7402 PS3902 3 3
PP7402 PS3902 5 5
PP7402 PS3902 7 7

RED/C IN
GREEN IN
BLUE IN
VIDEO OUT
VIDEO/Y IN

AV2
JK3904
DECODER/
EXT

AV3
JK7001
FRONT JACK
S-VIDEO IN
VIDEO IN

IC3001
(VIDEO PROCESS)

P7001 P7501 20 20 — CPN 2Y IN — Y3 IN
P7001 P7501 18 18 — CPN 2C IN — C3 IN
P7001 P7501 16 16 — CPS 2V IN — VIDEO 3 IN

RGB P.C.B.

IC3502
(SELECTOR SW.)
C1 IN — RGB C — PP3001 PS3501 5 5 — RGB C — OUT — R/C IN
Y1 IN — RGB Y — PP3001 PS3501 3 3 — RGB Y — OUT — V IN
RGB IN(H) — FROM TIMER IC7502-72

Q3509 AMP — PS3502 PP3002 7 7
Q3508 AMP
Q3505-Q3507 AMP — FL3501

IC3501
(VIDEO ENCODER)
VIDEO OUT
Y OUT
R/C IN
G IN
B IN
V SYNC IN

Q3503 AMP — PS3502 PP3002 9 9
Q3502 AMP
Q3501 AMP — PS3502 PP3002 11 11
IC3509,Q3504 SYNC SEP. — Q3510 AMP — AV2 VIN — PS3502 PP3002 5 5

P9001 PP9701 28 28 — V YIN DM — Y/V OUT
P9001 PP9701 30 30 — CPN CIN DM — C OUT
TO DIGITAL

AV4
JK3001
REAR JACK
S-VIDEO IN
VIDEO IN

Y4 IN
C4 IN
VIDEO 4 IN

Q3001,3002,FL3001 Y SEP.AND BUFFER — Y IN
Q3003,3004,FL3002 C SEP.AND BUFFER — C IN

VIDEO1 IN — Q3005 AMP
SLICER VIDEO — SLICER VIDEO — TO TIMER (Q7505,Q7507)
Y/C SEPA.

SCART VIN — PS3502 PP3002 3 3 — Q3006 AMP — PP7401 PS3901 8 8

DU7402
VIDEO OUT — TUNER VIDEO — Q7402 AMP — PP7401 PS3901 6 6

IC3901
(BUFFER AND SWITCH)
VIDEO OUT(AV1)
VIDEO IN(AV1)
VIDEO OUT(AV2)
CPN Y
CPS V
VIDEO IN(AV2)
SCART V OUT
TUNER VIDEO

Q3901 AMP — PP7402 PS3902 1 1

DMR-E50EB/EG/GCS
Analog Video Block Diagram

MAIN P.C.B.

MAIN P.C.B.

SCART P.C.B.

:REC SIGNAL

:PB SIGNAL

AV4
JK3001
REAR JACK
18
16
19
21
LINE OUT (L)
LINE OUT (R)
MIX L OUT2
MIX R OUT2

D4005
D4006
Q4006
Q4007
Q4008
Q4009
MUTE

QR4002-QR4005
Q4004
MUTE CIRCUIT

FROM TIMER
IC7502- 20
XTMUTE
IC7502- 57
XSCART MUTE

QR4012
SCART MUTE OUT

MIX L OUT1
MIX R OUT1
AUDIO MUTE

PP7403	PS3903
14	14
12	12
2	2

Q3908, QR3909
SWITCH
D3903
Q3910
Q3909
MUTE

XDMUTE

FROM DIGITAL

P9002	PP9702
23	23
19	19
21	21

MIX R OUT DM
MIX L OUT DM

IC4009
2
6
1
7
IC4009

IC4001
(AUDIO SIGNAL PROCESS)
25 DAR
26 DAL
L CH OUT 29
R CH OUT 28

A ADC L
A ADC R

PP9702	P9002
12	12
14	14

TO DIGITAL

IC3901
(A/V BUFFER AND SWITCH)
9 MUTE
40 R CH OUT
39 L CH OUT
31 AUDIO OUT CH2(R)
34 AUDIO IN CH2(R)
30 AUDIO OUT CH1(L)
33 AUDIO IN CH1(L)

AV2
JK3904
DECODER/EXT

MIX L OUT1
11
2
L CH IN

MIX R OUT1
10
1
R CH IN

AV4
JK3001
REAR JACK
LINE IN(R)
LINE IN(L)
AUDIO
21
20
17
18
A4 IN R
A4 IN L
12 A4 IN R
11 A4 IN L

L3 IN R 10
L3 IN L 9
L3 IN(R)
L3 IN(L)

PP7403	PS3903
4	4
6	6

AV3
JK7001
FRONT JACK
FRONT LINE (L)
FRONT LINE (R)
AUDIO
4
5
2
3
1

P7001	P7501
13	13
11	11

L2 IN(L)
L2 IN(R)
32 L2 IN L
31 L2 IN R

DC L CH 17
DC R CH 18
METER L
METER R
(IC7502- 101)
(IC7502- 102)
TO TIMER

DU7402
TUNER
AUDIO IN 2
AUDIO OUT 21

QR7406,7407
MUTE
RFC A MUTE(H)
FROM TIMER IC7502- 52
RFC A OUT
24 RF OUT

IC7301
MSD
38
2
1

PK7701	PK7301
3	3

PK7302	PK7702
4	4
6	6

TUNER R
TUNER L
3 TUNER R
2 TUNER L

DECODER R 7
DECODER L 6
DECODER R
DECODER L

PP7403	PS3903
8	8
10	10

DECODER R
DECODER L
15 R CH IN
16 L CH IN

AV1
JK3905
TV
AUDIO OUT CH2(R)
AUDIO IN CH2(R)
AUDIO OUT CH1(L)
AUDIO IN CH1(L)
43
37
42
36

FROM DIGITAL

P9002	PP9702
17	17

IEC OUT
D+5V
IC4007
2
1
4
IC4005
1
7
IC4006
OPTICAL
(DIGITAL AUDIO OUT)

DMR-E50EB/EG/GCS
Analog Audio Block Diagram

FRONT(L)P.C.B.

S7003 POWER — KEY IN2(L) — P7001 3 / P7501 3 — KEY IN2(L) → IC7502 (TIMER) 97 KEY IN2

KEY IN2(R) — P7001 4 / P7501 4

POWER — D7001 — N SW+5V — QR7001 (POWER LED DRIVE) — POW LED(H) — P7001 9 / P7501 9 → 90 POWER LED(H)

IR7001 REMOTE CTL. RECEIVER (3 2 1)

N SW+5V — P7001 1 / P7501 1 → 3 REMOTE CTL.

P7001 5 / P7501 5 — KEY IN3(L) → 104 KEY IN3

KEY IN3(R) — P7001 6 / P7501 6

S7805 STOP — S7804 SKIP-R — S7803 CH-DOWN — S7802 REC — KEY IN3(R) — P7801 8 / P1104 8 / P1103 6 / PP1503 6

S7814 EXT-LINK — S7813 TIMER-REC — S7812 PLAY — S7811 TIME-WARP — S7810 ERASE — S7809 MODE — S7808 CH-UP — KEY IN2(R) — P7801 7 / P1104 7 / P1103 8 / PP1503 8

TRAY S7801 — BLIND OPEN(H) — P7801 5 / P1104 5 / P1103 11 / PP1503 11 → TO DIGITAL P.C.B. (GLUE SEC.IC6701- 148)

KEY IN1(R) — P7801 6 / P1104 6 / P1103 10 / PP1503 10 → 96 KEY IN1

SKIP-F S7815 — OPEN/CLOSE S7816

TIME-WARP — X SW5.15V — D7801 — QR7801 (TIME-WARP LED DRIVE) — TIME-WARP LED(H) — P7801 4 / P1104 4 / P1103 12 / PP1503 12 → 76 TIME-WARP LED(H)

FRONT(R)P.C.B.

IC7502 (TIMER)

IP7501 IC PROTECTOR (1 2) — T7501 DISPLAY REGULATOR (4 1 5) — DP7501 DISPLAY (F+ F- 1G 2G)

IC7501 (DISPLAY DRIVE)
- FIPTLK 42 / FIPCLK 44 → SCK 15 / S DATA 16
- SEQ00 59 ~ SEQ26 33
- SEQ27 31 ~ SEQ32 26
- DIG07 5
- DIG06 6

X SW13V — Q7515 (FAN MOTOR DRIVE)

IC7507 (FAN MOTOR DRIVE) — FAN DC OUT 2 → B+IN 5 / A OUT 1

FANDCOUT — P7504 1 / P7504 3 — FAN MOTOR (M) — FAN LOCK(H) 64

Q7501 (DISPLAY DRIVE) — Q7502 (DISPLAY DRIVE) — N SW+5V

AUDIO MUTE(L) 20 — XT MUTE → (QR4002-QR4005,Q4004)

SCART MUTE(H) 57 → (QR4012)

RFC A MUTE(H) 52 — RFC A MUTE(H) → (QR7406,QR7407)

DC L CH 101 — METER L → (IC4001- 17)

DC R CH 102 — METER R → (IC4001- 18)

TO/FROM ANALOG AUDIO

SYNC IN 109 — Q7507 VIDEO SYNC OUT — SLICER VIDEO → (IC3001- 42)

CVIN1 113 — Q7505 AMP

THROUT(H) 50 — QR7501 INV. — AV2 THROUGH(L) → (IC3004- 9 , 10 , 11)

YC(H) 51 — YC(H) → (IC3002- 9 , 10 , 11)

RGB IN(H) 72 — RGB IN(H) → (IC3502- 9 , 11)

TO/FROM ANALOG VIDEO

POWER SAVE(L) 56 — POWER SAVE(L)

POWER ON(H) 88 — POWER ON(H)

TUNER P ON(H) 89 — TUNER P ON(H)

TO POWER SUPPLY

IIC CLK 28 — IIC CLK — PK7702 1 / PK7302 1 → IC7301 (DECODER PACK) 29 SCL

IIC DATA 29 — IIC DATA — PK7702 2 / PK7302 2 → 30 SDA

IC3901 (SCART) — PP7401 2 / PS3901 2 → 21 SDA — PP7401 1 / PS3901 1 → 22 SCL

XCIN 9 — X7502 32.768MHz — XCOUT 10

XOUT 12 — X7503 10MHz — XIN 14

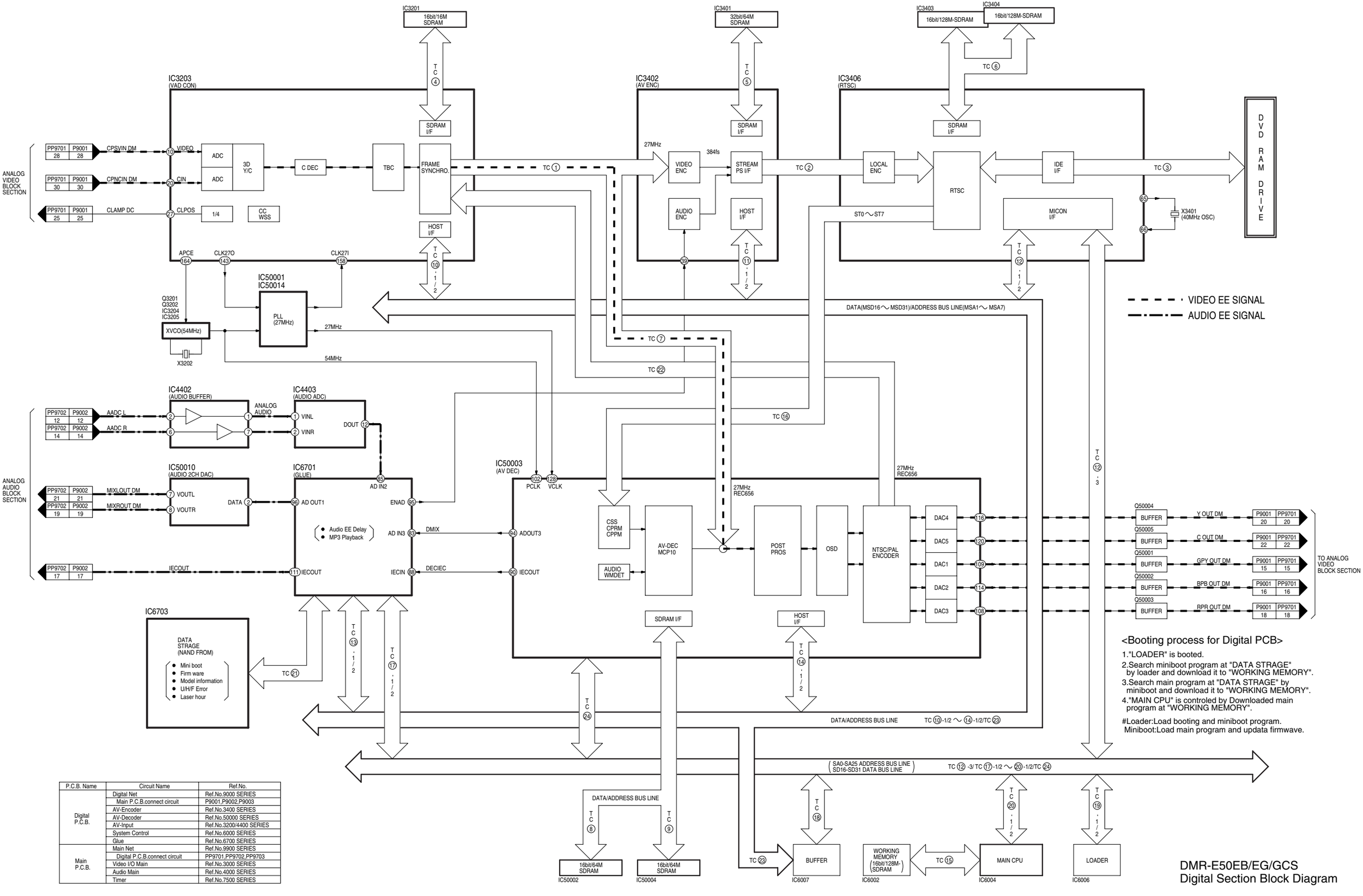
IC7506 (EEPROM) 6 SCL 5 SDA

IC4001 (AUDIO PROCESS) 21 SDA 20 SCL

IC3001 (VIDEO PROCESS) 30 SCL 31 SDA

DU7402 VIF TUNER 11 SCL 12 SDA

DMR-E50EB/EG/GCS
Timer Block Diagram



<Booting process for Digital PCB>

1."LOADER" is booted.
2.Search miniboot program at "DATA STRAGE" by loader and download it to "WORKING MEMORY".
3.Search main program at "DATA STRAGE" by miniboot and download it to "WORKING MEMORY".
4."MAIN CPU" is controled by Downloaded main program at "WORKING MEMORY".

#Loader:Load booting and miniboot program.
Miniboot:Load main program and updata firmwave.

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,P9002,P9003
	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
Main P.C.B.	Main Net	Ref.No.9900 SERIES
	Digital P.C.B.connect circuit	PP9701,PP9702,PP9703
	Video I/O Main	Ref.No.3000 SERIES
	Audio Main	Ref.No.4000 SERIES
	Timer	Ref.No.7500 SERIES

DMR-E50EB/EG/GCS
Digital Section Block Diagram

IC Pin Terminal Chart (TC 1 - TC 6)

	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	IC3406 / 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	IC3406 / RTSC		SIGNAL NAME	P3401 (DVD RAM)	
	Port Name	Pin No		Pin No	Port Name
3	S1DB0	122	RAMD0	24	DD0
	S1DB1	124	RAMD1	26	DD1
	S1DB2	127	RAMD2	28	DD2
	S1DB3	129	RAMD3	30	DD3
	S1DB4	135	RAMD4	32	DD4
	S1DB5	137	RAMD5	34	DD5
	S1DB6	140	RAMD6	36	DD6
	S1DB7	142	RAMD7	38	DD7
	S1DB8	141	RAMD8	37	DD8
	S1DB9	139	RAMD9	35	DD9
	S1DB10	136	RAMD10	33	DD10
	S1DB11	134	RAMD11	31	DD11
	S1DB12	128	RAMD12	29	DD12
	S1DB13	126	RAMD13	27	DD13
	S1DB14	123	RAMD14	25	DD14
	S1DB15	121	RAMD15	23	DD15

TC	IC3203/VAD CON		SIGNAL NAME	IC3201/SDRAM	
	Port Name	Pin No		Pin No	Port Name
4	M0DT0	63	DT0	2	DO0
	M0DT1	62	DT1	3	DO1
	M0DT2	60	DT2	5	DO2
	M0DT3	59	DT3	6	DO3
	M0DT4	57	DT4	8	DO4
	M0DT5	56	DT5	9	DO5
	M0DT6	54	DT6	11	DO6
	M0DT7	53	DT7	12	DO7
	M0DT8	50	DT8	39	DO8
	M0DT9	49	DT9	40	DO9
	M0DT10	47	DT10	42	DO10
	M0DT11	46	DT11	43	DO11
	M0DT12	44	DT12	45	DO12
	M0DT13	43	DT13	46	DO13
	M0DT14	41	DT14	48	DO14
	M0DT15	40	DT15	49	DO15
	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(32bit/64M)	
	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
	MA0	193	MAA0	25	A0
	MA1	194	MAA1	26	A1
	MA2	196	MAA2	27	A2
	MA3	197	MAA3	60	A3
	MA4	200	MAA4	61	A4
	MA5	201	MAA5	62	A5
	MA6	203	MAA6	63	A6
	MA7	204	MAA7	64	A7
	MA8	206	MAA8	65	A8
	MA9	207	MAA9	66	A9
	MA10	2	MAA10	24	A10

TC	IC3406 / RTSC		SIGNAL NAME	IC3403,IC3404/SDRAM	
	Port Name	Pin No		Pin No	Port Name
6	MDQ0	144	MADQB0	2	DQ0
	MDQ1	146	MADQB1	4	DQ1
	MDQ2	148	MADQB2	5	DQ2
	MDQ3	151	MADQB3	7	DQ3
	MDQ4	155	MADQB4	8	DQ4
	MDQ5	157	MADQB5	10	DQ5
	MDQ6	159	MADQB6	11	DQ6
	MDQ7	161	MADQB7	13	DQ7
	MDQ8	162	MADQB8	42	DQ8
	MDQ9	160	MADQB9	44	DQ9
	MDQ10	158	MADQB10	45	DQ10
	MDQ11	156	MADQB11	47	DQ11
	MDQ12	154	MADQB12	48	DQ12
	MDQ13	150	MADQB13	50	DQ13
	MDQ14	147	MADQB14	51	DQ14
	MDQ15	145	MADQB15	53	DQ15

IC Pin Terminal Chart (TC 7, TC 8, TC 9, TC 15, TC 16, TC 21, TC 22)

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	IC6004 / MAIN CPU		SIGNAL NAME	IC6002 / W-MEMORY	
	Port Name	Pin No		Pin No	Port Name
15	MD0	35	MD0	2	DQ0
	MD1	36	MD1	4	DQ1
	MD2	37	MD2	5	DQ2
	MD3	38	MD3	7	DQ3
	MD4	39	MD4	8	DQ4
	MD5	40	MD5	10	DQ5
	MD6	41	MD6	11	DQ6
	MD7	42	MD7	13	DQ7
	MD8	46	MD8	42	DQ8
	MD9	47	MD9	44	DQ9
	MD10	48	MD10	45	DQ10
	MD11	49	MD11	47	DQ11
	MD12	50	MD12	48	DQ12
	MD13	51	MD13	50	DQ13
	MD14	52	MD14	51	DQ14
	MD15	53	MD15	53	DQ15
	MA0	5	MA0	23	A0
	MA1	6	MA1	24	A1
	MA2	7	MA2	25	A2
	MA3	8	MA3	26	A3
	MA4	9	MA4	29	A4
	MA5	10	MA5	30	A5
	MA6	11	MA6	31	A6
	MA7	12	MA7	32	A7
	MA8	13	MA8	33	A8
	MA9	14	MA9	34	A9
	MA10	15	MA10	22	A10
	MA11	16	MA11	35	A11
	MA12	17	MA12	36	NC
	MA13	18	MA13	21	A12
	MA14	19	MA14	20	A13

TC	IC3406 / 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	IC6701 / GLUE		SIGNAL NAME	IC6703 / DATA STRAGE	
	Port Name	Pin No		Pin No	Port Name
21	ECCD0	67	DE0	18	D0
	ECCD1	70	DE1	19	D1
	ECCD2	69	DE2	20	D2
	ECCD3	68	DE3	21	D3
	ECCD4	71	DE4	24	D4
	ECCD5	74	DE5	25	D5
	ECCD6	73	DE6	26	D6
	ECCD7	72	DE7	27	D7

TC	IC50003 / AV DEC		SIGNAL NAME	IC3203 / VAD CON	
	Port Name	Pin No		Pin No	Port Name
22	VDOUT0	140	R656DD0	155	R656IN0
	VDOUT1	141	R656DD1	154	R656IN1
	VDOUT2	142	R656DD2	153	R656IN2
	VDOUT3	143	R656DD3	152	R656IN3
	VDOUT4	145	R656DD4	151	R656IN4
	VDOUT5	146	R656DD5	150	R656IN5
	VDOUT6	147	R656DD6	149	R656IN6
	VDOUT7	149	R656DD7	148	R656IN7

SA0 ～ SA25 ADDRESS BUS LINE (TC20-1, TC12-3, TC17-1, TC18, TC19-1, TC24)

TC	20-1		12-3		17-1		18		19-1		24	
SIGNAL NAME	IC6004/MAIN CPU		IC3406 / RTSC		IC6701/GLUE		IC6007 / BUFFER		IC6006 / LOADER		IC50003 / AVDEC	
	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	186	SA0	-	-	-	-	-	-	-	-	-	-
SA1	187	SA1	-	-	-	-	26	4A4	11	A0	-	-
SA2	188	SA2	-	-	-	-	27	4A3	10	A1	-	-
SA3	189	SA3	-	-	-	-	29	4A2	9	A2	-	-
SA4	190	SA4	-	-	-	-	30	4A1	8	A3	-	-
SA5	191	SA5	-	-	-	-	32	3A4	7	A4	-	-
SA6	192	SA6	-	-	-	-	33	3A3	6	A5	-	-
SA7	193	SA7	-	-	-	-	35	3A2	5	A6	-	-
SA8	194	SA8	63	HMADR8	-	-	-	-	4	A7	41	HA8
SA9	195	SA9	71	HMADR9	-	-	-	-	42	A8	42	HA9
SA10	196	SA10	72	HMADR10	-	-	-	-	41	A9	43	HA10
SA11	197	SA11	73	HMADR11	-	-	-	-	40	A10	45	HA11
SA12	198	SA12	74	HMADR12	-	-	-	-	39	A11	46	HA12
SA13	199	SA13	76	HMADR13	-	-	-	-	38	A12	47	HA13
SA14	200	SA14	77	HMADR14	-	-	-	-	37	A13	49	HA14
SA15	201	SA15	78	HMADR15	-	-	-	-	36	A14	50	HA15
SA16	205	SA16	79	HMADR16	-	-	-	-	35	A15	51	HA16
SA17	206	SA17	80	HMADR17	-	-	-	-	34	A16	54	HA17
SA18	207	SA18	-	-	-	-	-	-	3	A17	-	-
SA19	208	SA19	-	-	-	-	-	-	-	-	-	-
SA20	209	SA20	-	-	-	-	-	-	-	-	-	-
SA21	210	SA21	-	-	-	-	-	-	-	-	-	-
SA22	211	SA22	-	-	174	ADR22	-	-	-	-	-	-
SA23	212	SA23	-	-	171	ADRH0	-	-	-	-	-	-
SA24	213	SA24	-	-	172	ADRH1	-	-	-	-	-	-
SA25	214	SA25	-	-	173	ADRH2	-	-	-	-	-	-

SD16 ～ SD31 DATA BUS LINE (TC20-2, TC17-2, TC19-2)

TC	20-2		17-2		19-2	
SIGNAL NAME	IC6004 / MAIN CPU		IC6701 / GLUE		IC6006 / LOADER	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SD16	135	SD16	201	LDTI0	15	D0
SD17	136	SD17	200	LDTI1	17	D1
SD18	137	SD18	199	LDTI2	19	D2
SD19	138	SD19	202	LDTI3	21	D3
SD20	139	SD20	197	LDTI4	24	D4
SD21	140	SD21	196	LDTI5	26	D5
SD22	141	SD22	198	LDTI6	28	D6
SD23	142	SD23	195	LDTI7	30	D7
SD24	144	SD24	194	LDTI8	16	D8
SD25	145	SD25	192	LDTI9	18	D9
SD26	146	SD26	191	LDTI10	20	D10
SD27	147	SD27	189	LDTI11	22	D11
SD28	148	SD28	190	LDTI12	25	D12
SD29	149	SD29	188	LDTI13	27	D13
SD30	150	SD30	187	LDTI14	29	D14
SD31	151	SD31	185	LDTI15	31	D15

MSD16 ～ MSD31 DATA BUS LINE (TC10-1, TC13-1, TC14-1, TC11-1, TC12-1)

TC	10-1		13-1		14-1		11-1		12-1	
SIGNAL NAME	IC3203/VAD CON		IC6701/GLUE		IC50003/AVDEC		IC3402/ENC		IC3406/RTSC	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
MSD16	129	MDA0	12	LDEV0	55	HD0	81	HD0	105	HMDT16
MSD17	128	MDA1	13	LDEV1	56	HD1	82	HD1	104	HMDT17
MSD18	127	MDA2	11	LDEV2	57	HD2	85	HD2	102	HMDT18
MSD19	126	MDA3	10	LDEV3	59	HD3	86	HD3	101	HMDT19
MSD20	124	MDA4	7	LDEV4	60	HD4	88	HD4	100	HMDT20
MSD21	123	MDA5	8	LDEV5	61	HD5	89	HD5	98	HMDT21
MSD22	122	MDA6	9	LDEV6	63	HD6	90	HD6	97	HMDT22
MSD23	121	MDA7	14	LDEV7	64	HD7	92	HD7	96	HMDT23
MSD24	118	MDA8	2	LDEV8	65	HD8	93	HD8	94	HMDT24
MSD25	117	MDA9	4	LDEV9	67	HD9	94	HD9	93	HMDT25
MSD26	116	MDA10	3	LDEV10	68	HD10	97	HD10	92	HMDT26
MSD27	115	MDA11	208	LDEV11	70	HD11	98	HD11	87	HMDT27
MSD28	113	MDA12	207	LDEV12	72	HD12	99	HD12	86	HMDT28
MSD29	112	MDA13	6	LDEV13	73	HD13	101	HD13	85	HMDT29
MSD30	111	MDA14	205	LDEV14	74	HD14	102	HD14	83	HMDT30
MSD31	110	MDA15	203	LDEV15	76	HD15	103	HD15	82	HMDT31

MSA1 ～ MSA7 ADDRESS BUS LINE (TC23, TC10-2, TC13-2, TC14-2, TC11-2, TC12-2)

TC	23		10-2		13-2		14-2		11-2		12-2	
SIGNAL NAME	IC6007/16bit BUFFER		IC3203/VAD CON		IC6701/GLUE		IC50003/AVDEC		IC3402/ENC		IC3406/RTSC	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
MSA1	23	4Y4	107	MAD0	167	ADRL1	32	HA1	106	HA0	55	HMADR1
MSA2	22	4Y3	106	MAD1	164	ADRL2	33	HA2	107	HA1	56	HMADR2
MSA3	20	4Y2	105	MAD2	165	ADRL3	35	HA3	108	HA2	57	HMADR3
MSA4	19	4Y1	104	MAD3	166	ADRL4	36	HA4	109	HA3	58	HMADR4
MSA5	17	3Y4	103	MAD4	163	ADRL5	37	HA5	105	HA4	60	HMADR5
MSA6	16	3Y3	102	MAD5	170	ADRL6	38	HA6	-	-	61	HMADR6
MSA7	14	3Y2	101	MAD6	168	ADRL7	40	HA7	-	-	62	HMADR7

13.5. Digital Section Block Diagram

13.5.1. Digital Block IC Pin Terminal Chart (TC 1 - TC 24)

14. Schematic Diagram

14.1. Interconnection Schematic Diagram

14.2. Main Power Supply Schematic Diagram (Main Power Supply P.C.B.)

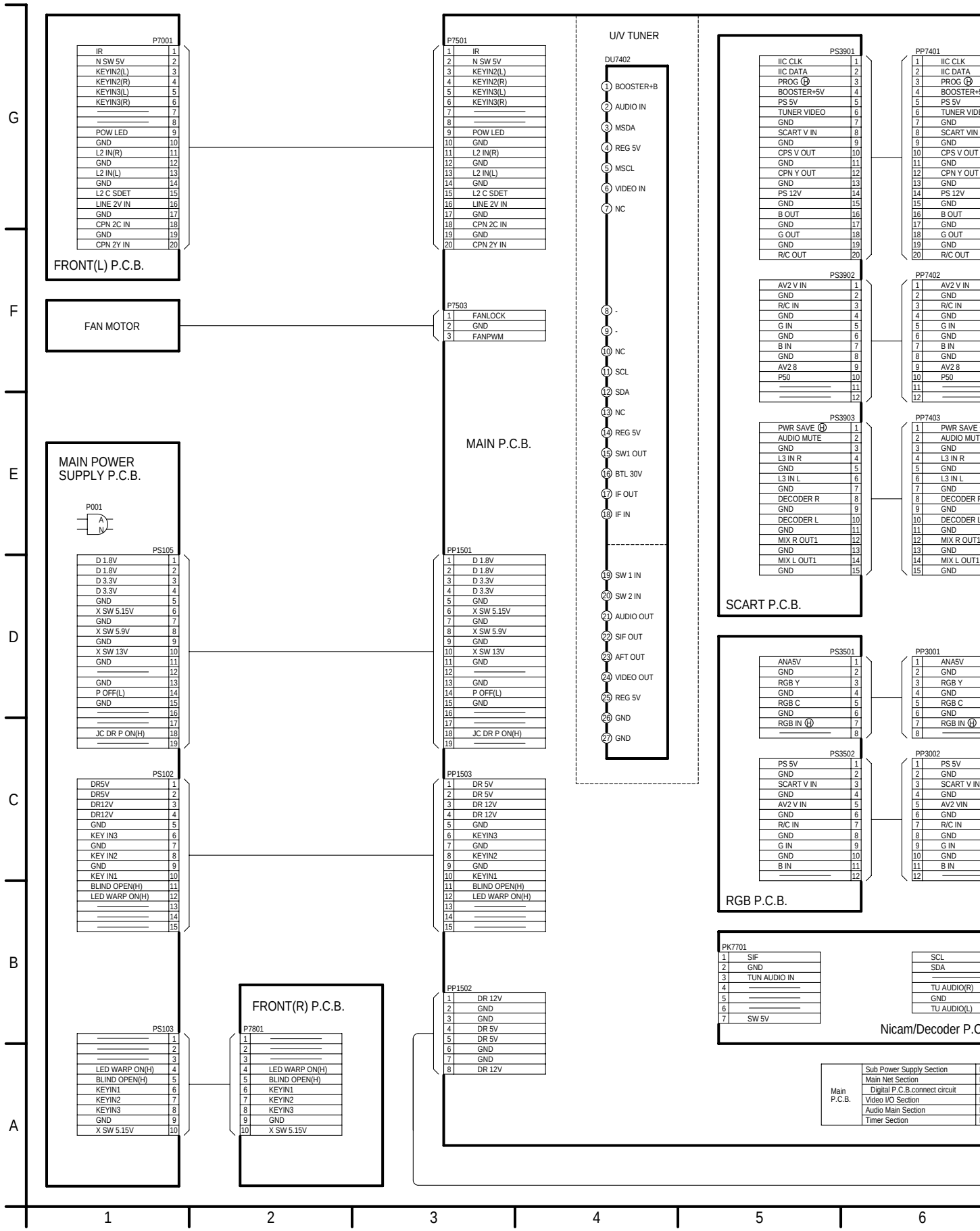
14.3. Sub Power Supply Schematic Diagram (P) (Main P.C.B. 1/5)

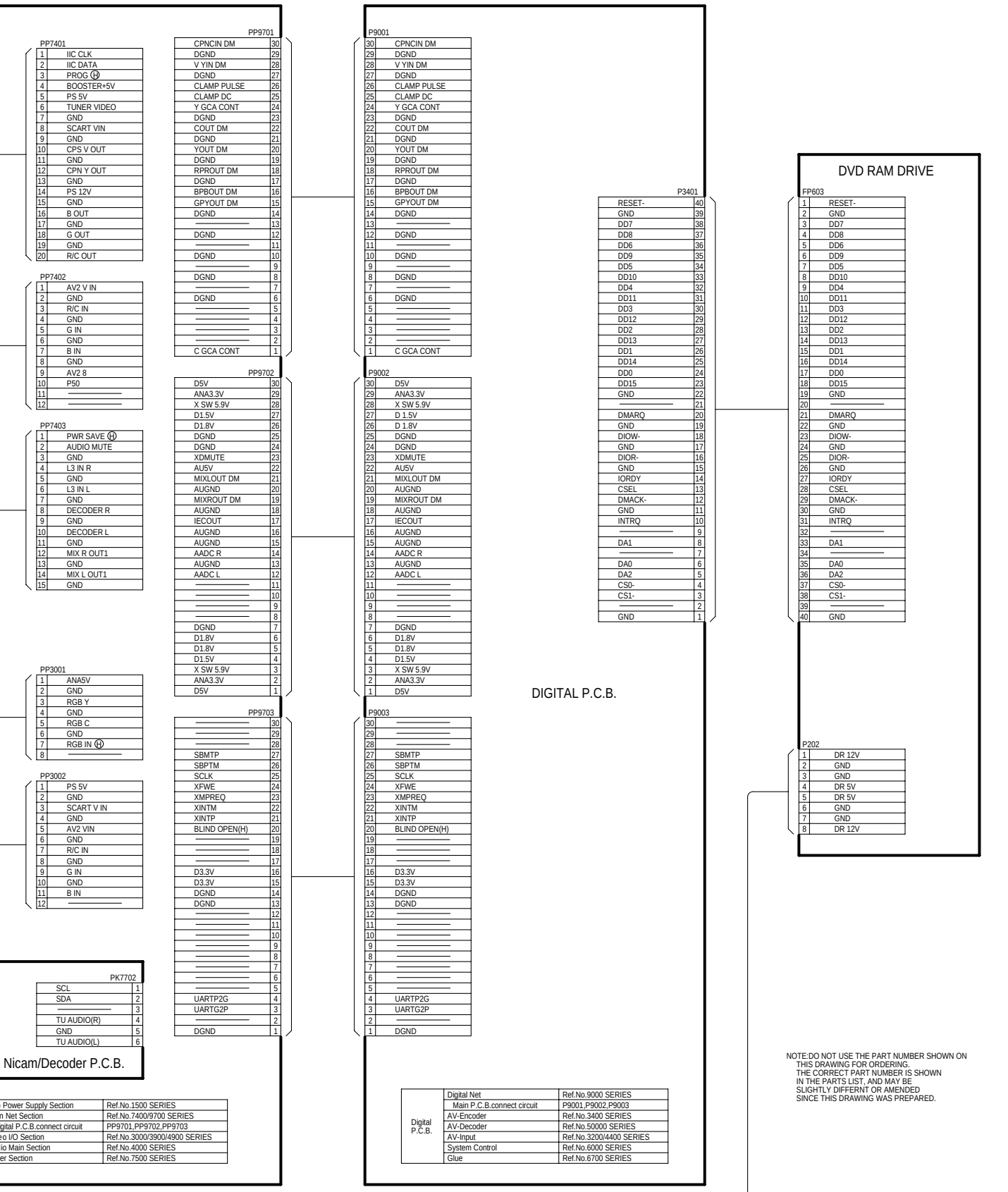
14.4. Main Net Schematic Diagram (M) (Main P.C.B. 2/5)

14.5. Video I/O Schematic Diagram (V) (Main P.C.B. 3/5)

14 Schematic Diagram

14.1. Interconnection Schematic Diagram





Power Supply Section	Ref.No.1500 SERIES
n Net Section	Ref.No.7400/9700 SERIES
gital P.C.B.connect circuit	PP9701,PP9702,PP9703
eo I/O Section	Ref.No.3000/3900/4900 SERIES
io Main Section	Ref.No.4000 SERIES
er Section	Ref.No.7500 SERIES

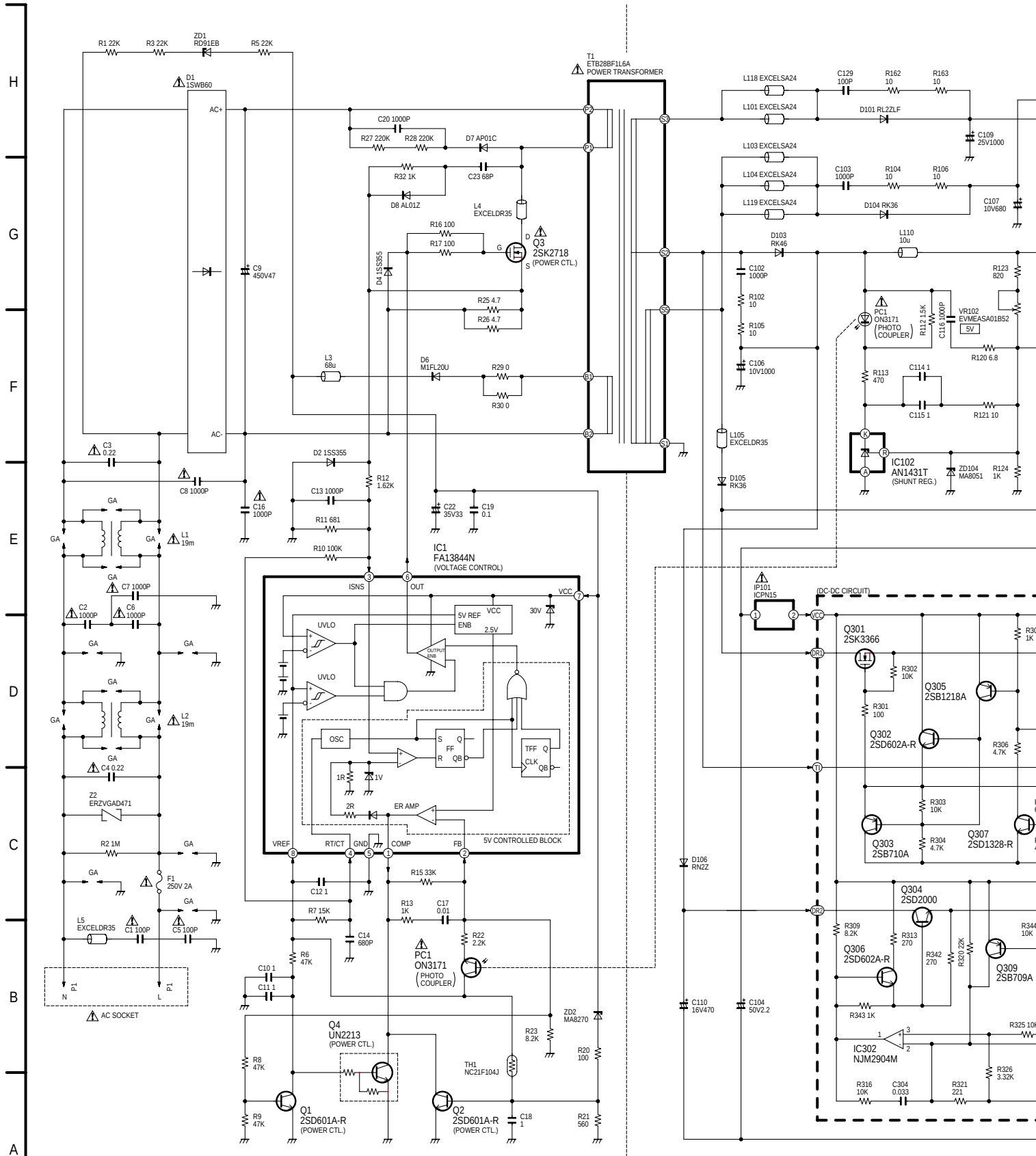
Digital P.C.B.	Digital Net	Ref.No.9000 SERIES
	Main P.C.B.connect circuit	P9001,P9002,P9003
	AV-Encoder	Ref.No.3400 SERIES
	AV-Decoder	Ref.No.50000 SERIES
	AV-Input	Ref.No.3200/4400 SERIES
	System Control	Ref.No.6000 SERIES
	Glue	Ref.No.6700 SERIES

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-E50EB/EG/GCS Interconnection Schematic Diagram

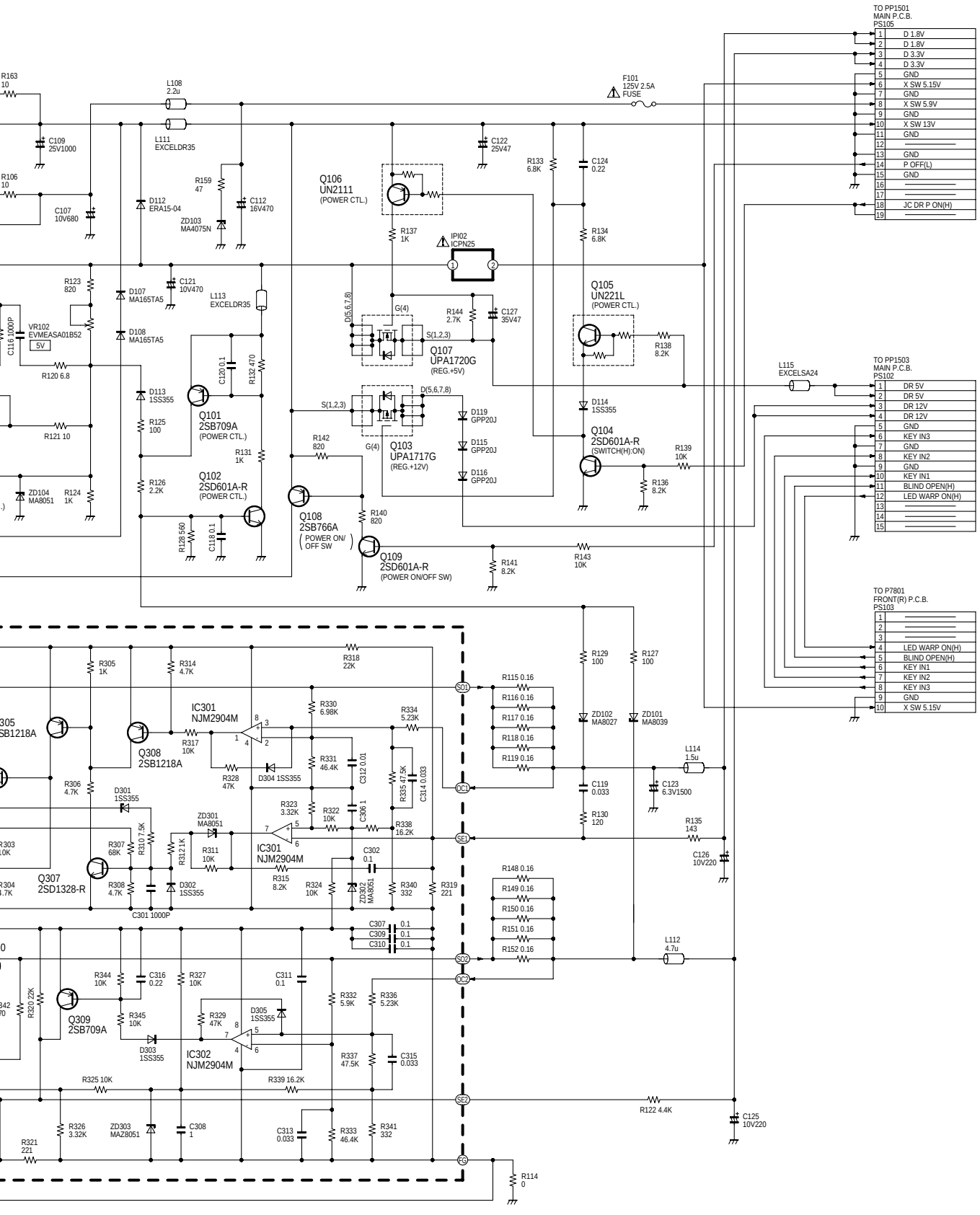
6 7 8 9 10 11

14.2. Main Power Supply Schematic Diagram (Main Power Supply P.C.B.)



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

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRA
IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR A

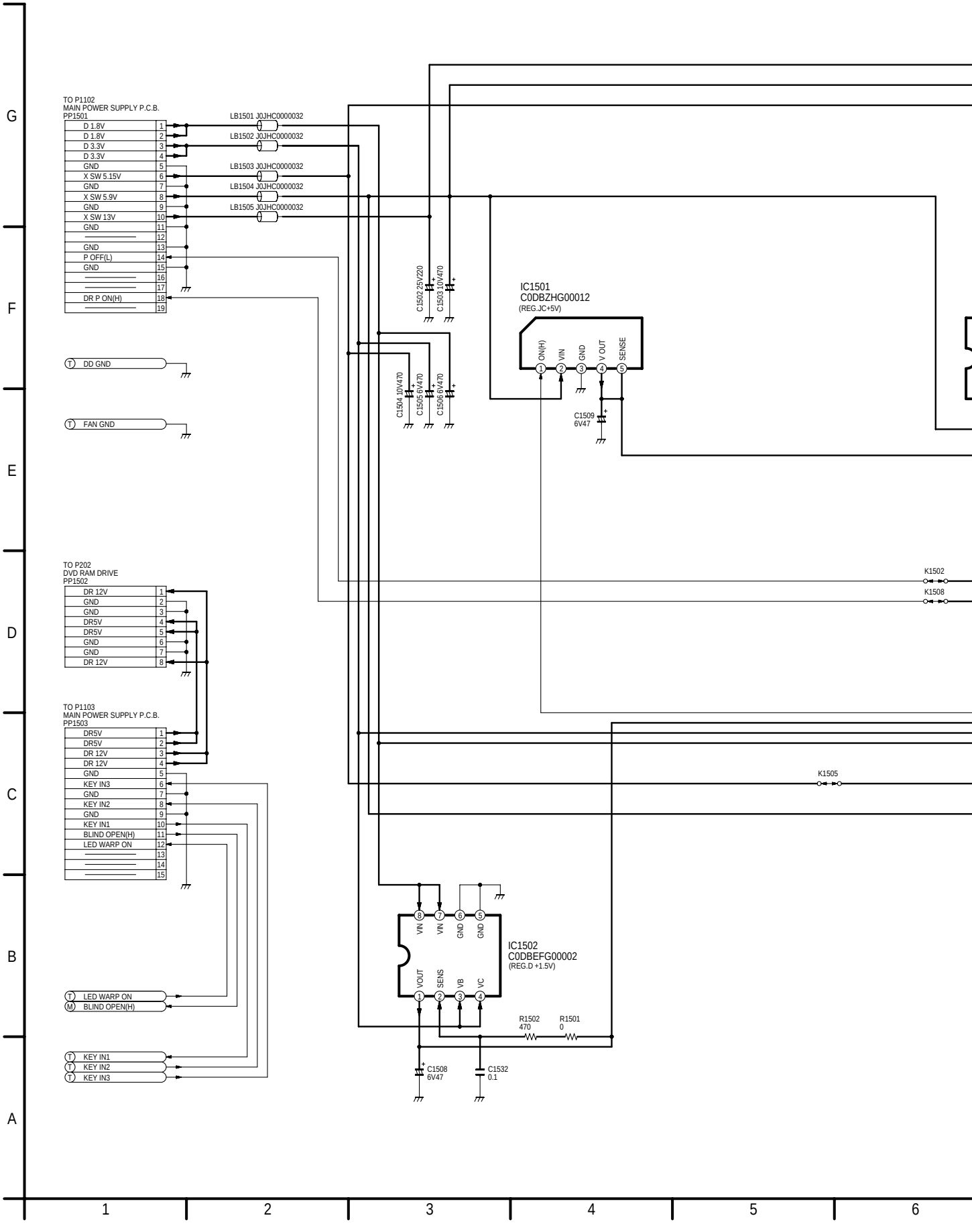


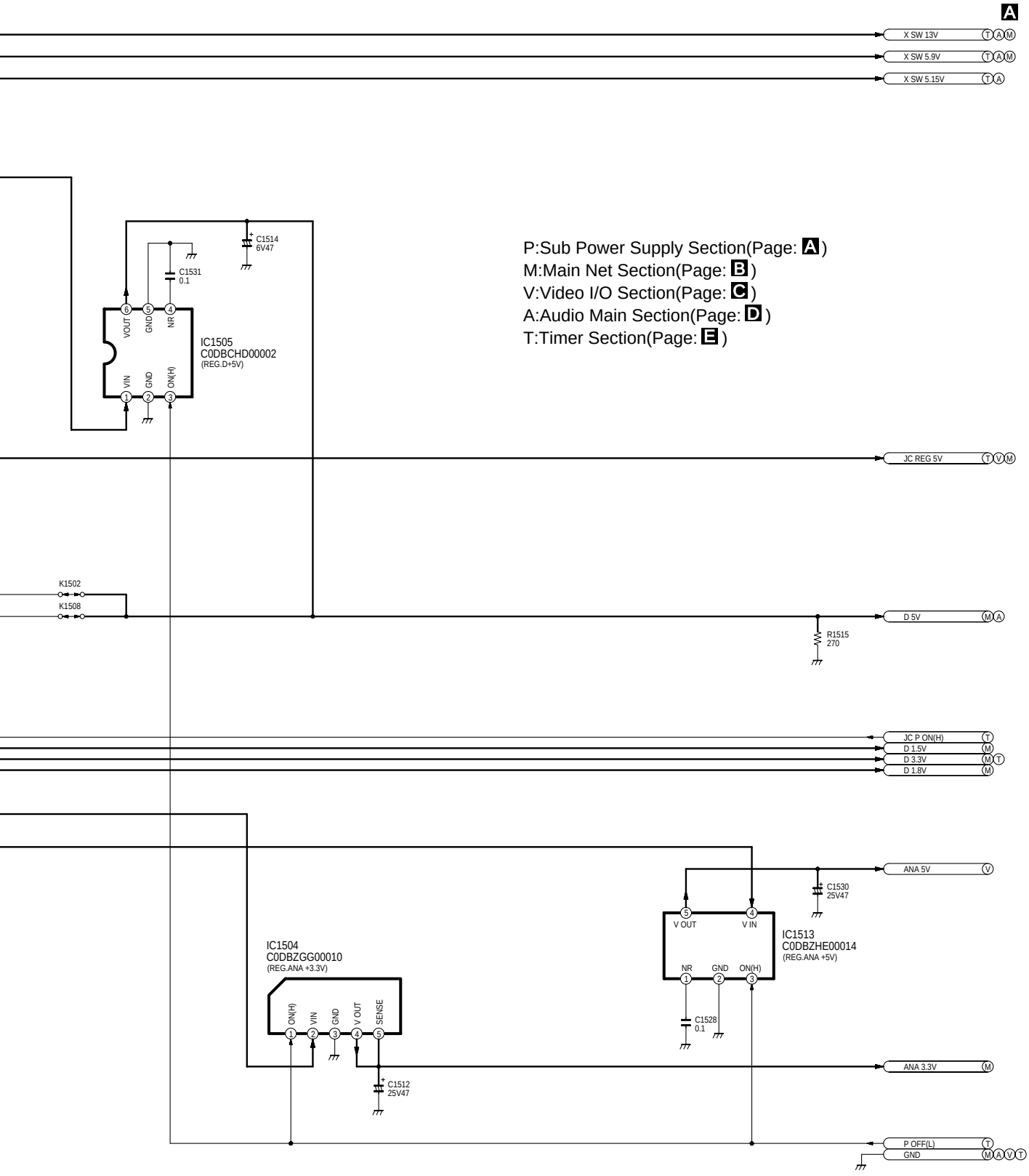
ER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN
SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E50EB/EG/GCS
Main Power Supply
Schematic Diagram

7	8	9	10	11	12

14.3. Sub Power Supply Schematic Diagram (P) (Main P.C.B. 1/5)



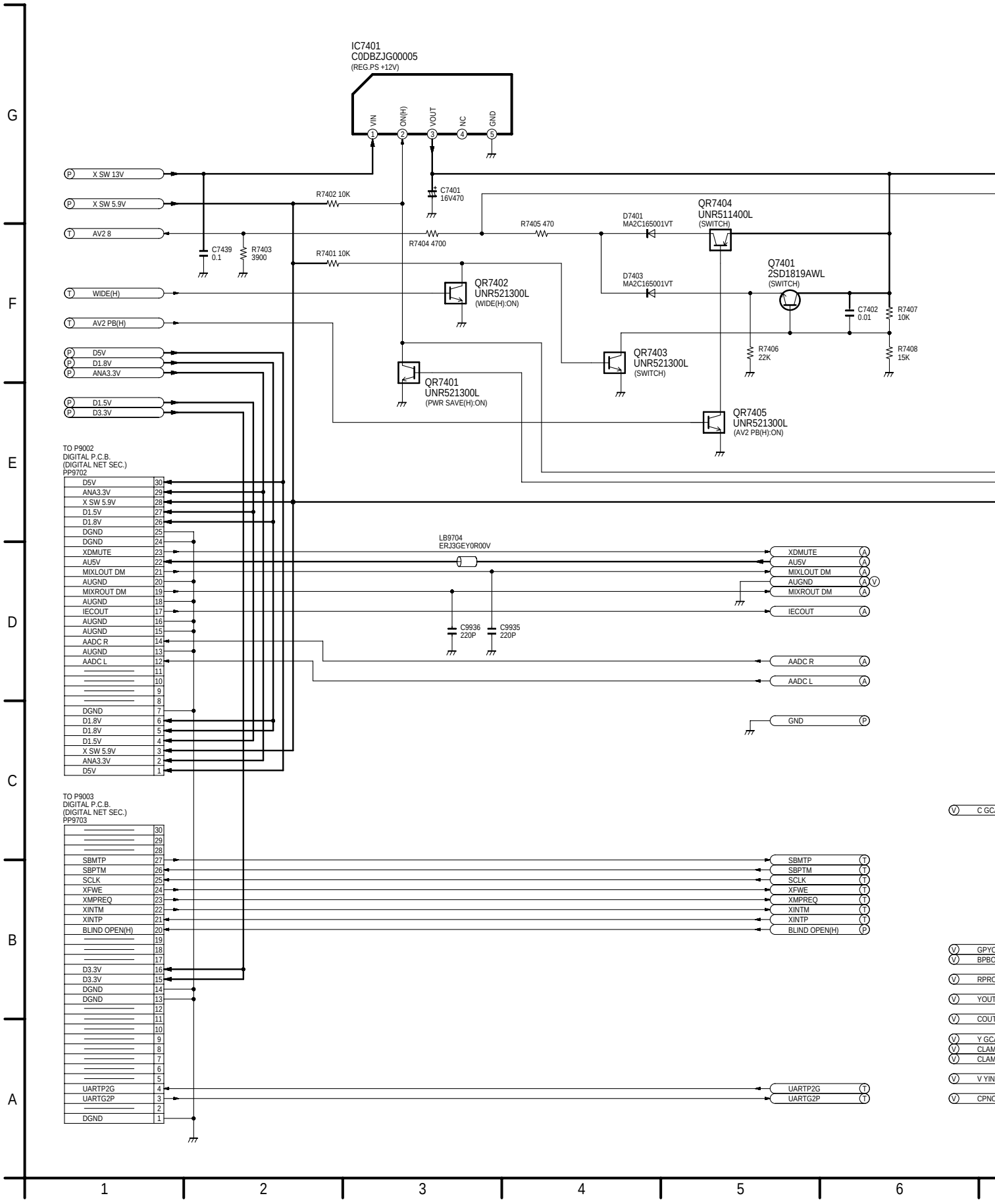


DMR-E50EB/EG/GCS
Sub Power Supply Section
(Main P.C.B. (1/5))
Schematic Diagram(P)

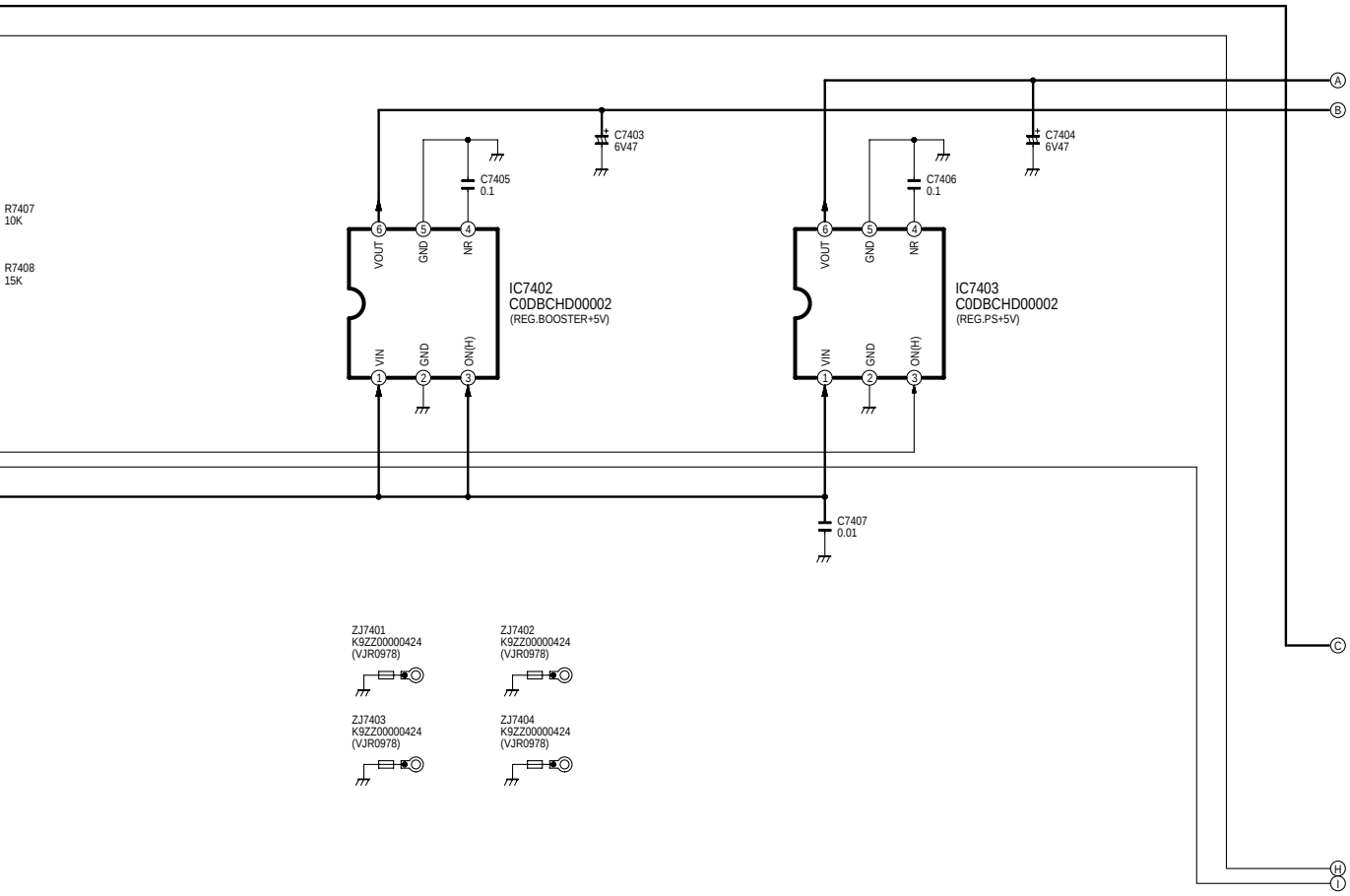
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

6 | 7 | 8 | 9 | 10 | 11

14.4. Main Net Schematic Diagram (M) (Main P.C.B. 2/5)



P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

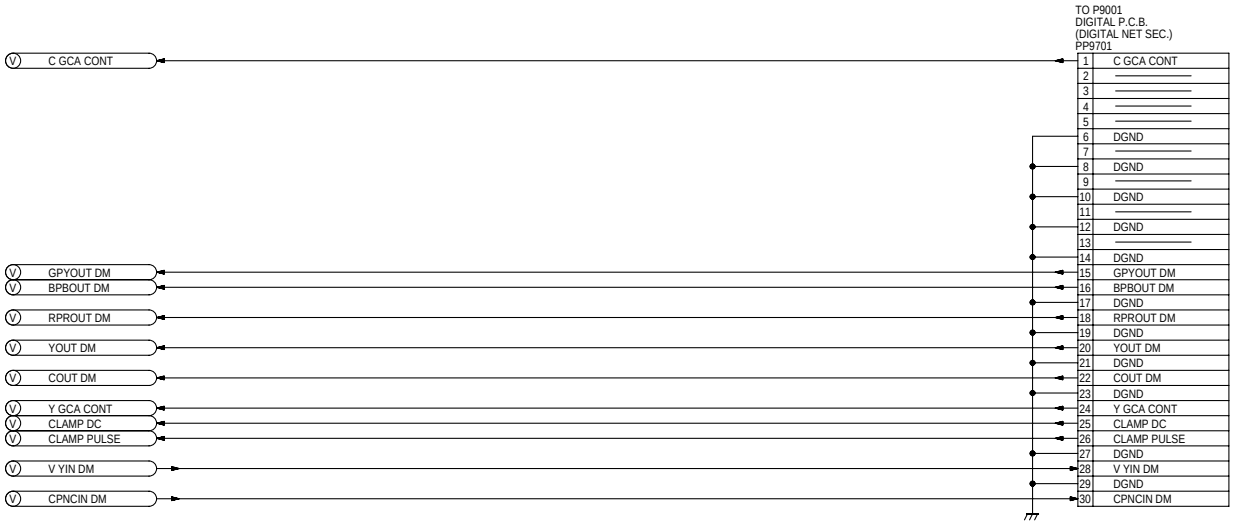


ZJ7401
K9ZZ00000424
(VJR0978)

ZJ7402
K9ZZ00000424
(VJR0978)

ZJ7403
K9ZZ00000424
(VJR0978)

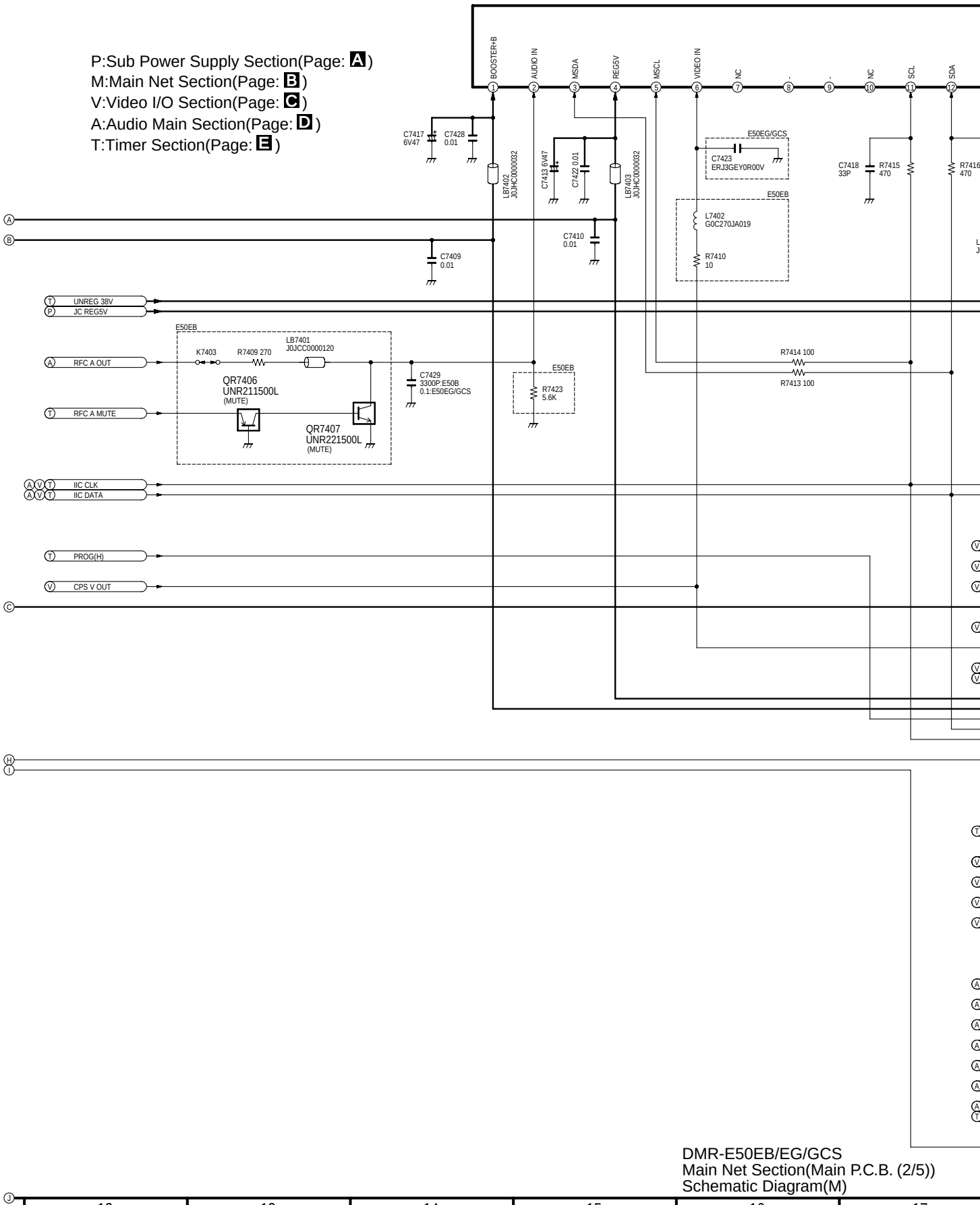
ZJ7404
K9ZZ00000424
(VJR0978)



DMR-E50EB/EG/GCS
Main Net Section(Main P.C.B. (2/5))
Schematic Diagram(M)

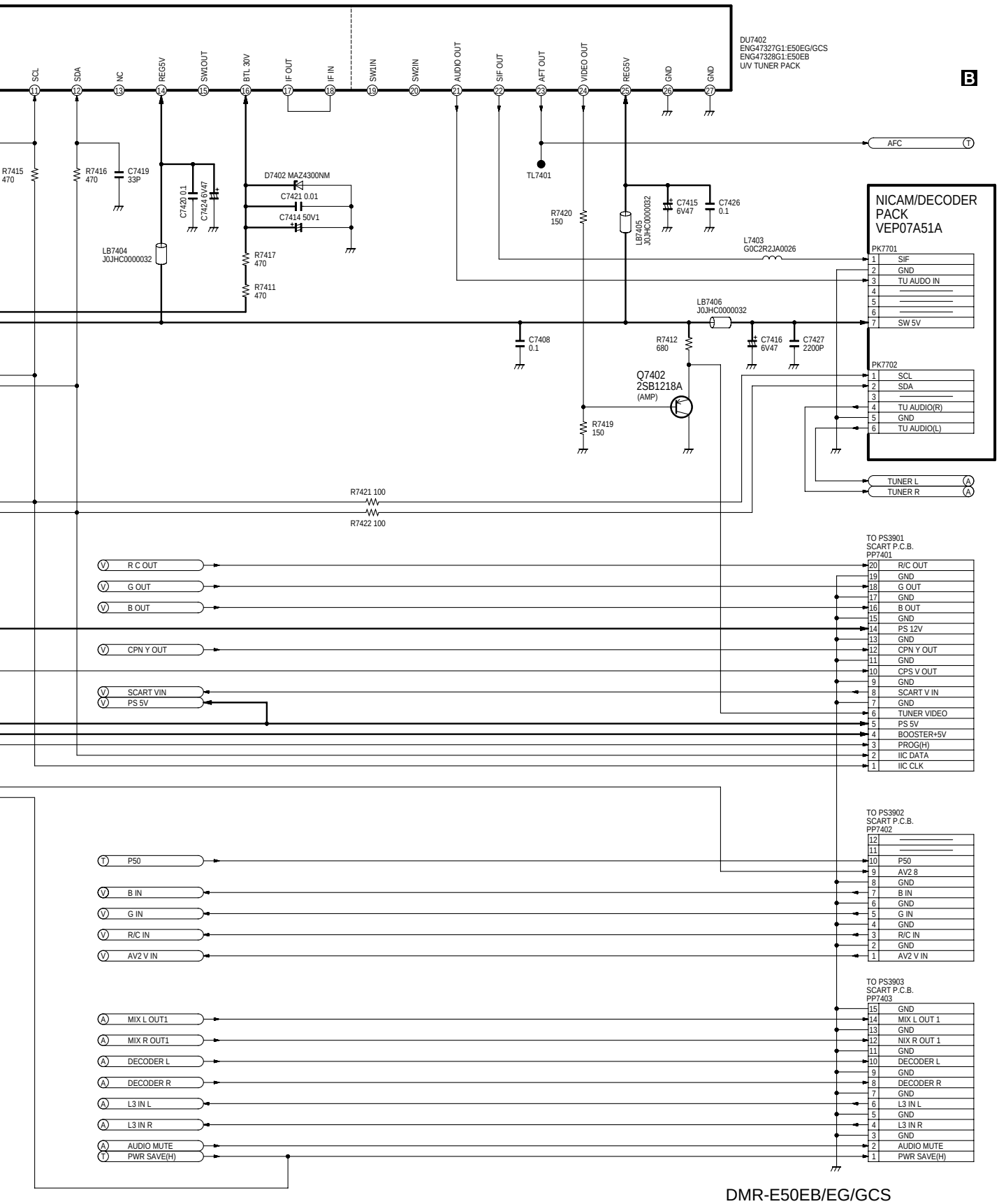
6 | 7 | 8 | 9 | 10 | 11

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)



DMR-E50EB/EG/GCS
Main Net Section(Main P.C.B. (2/5))
Schematic Diagram(M)

12 13 14 15 16 17

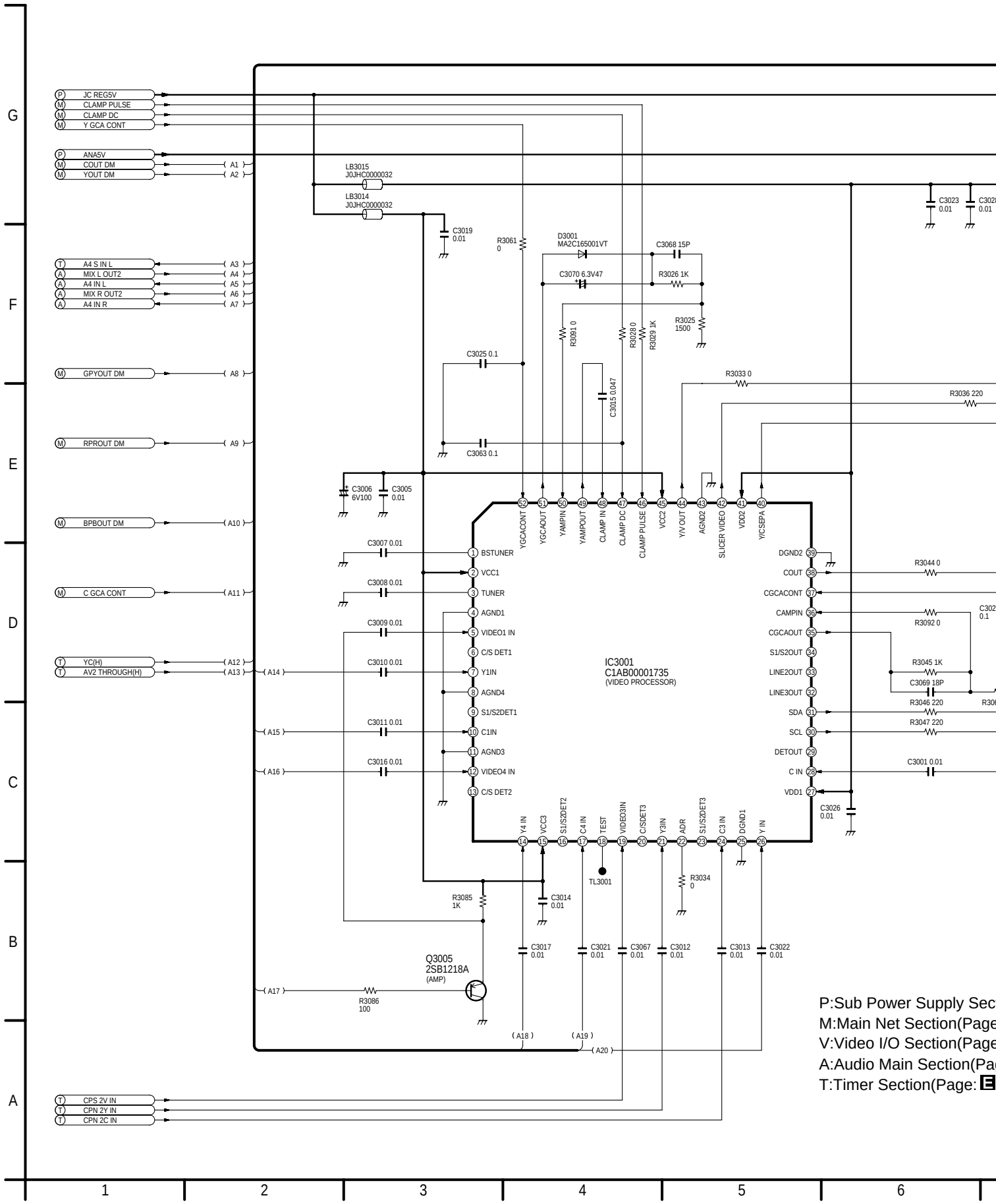


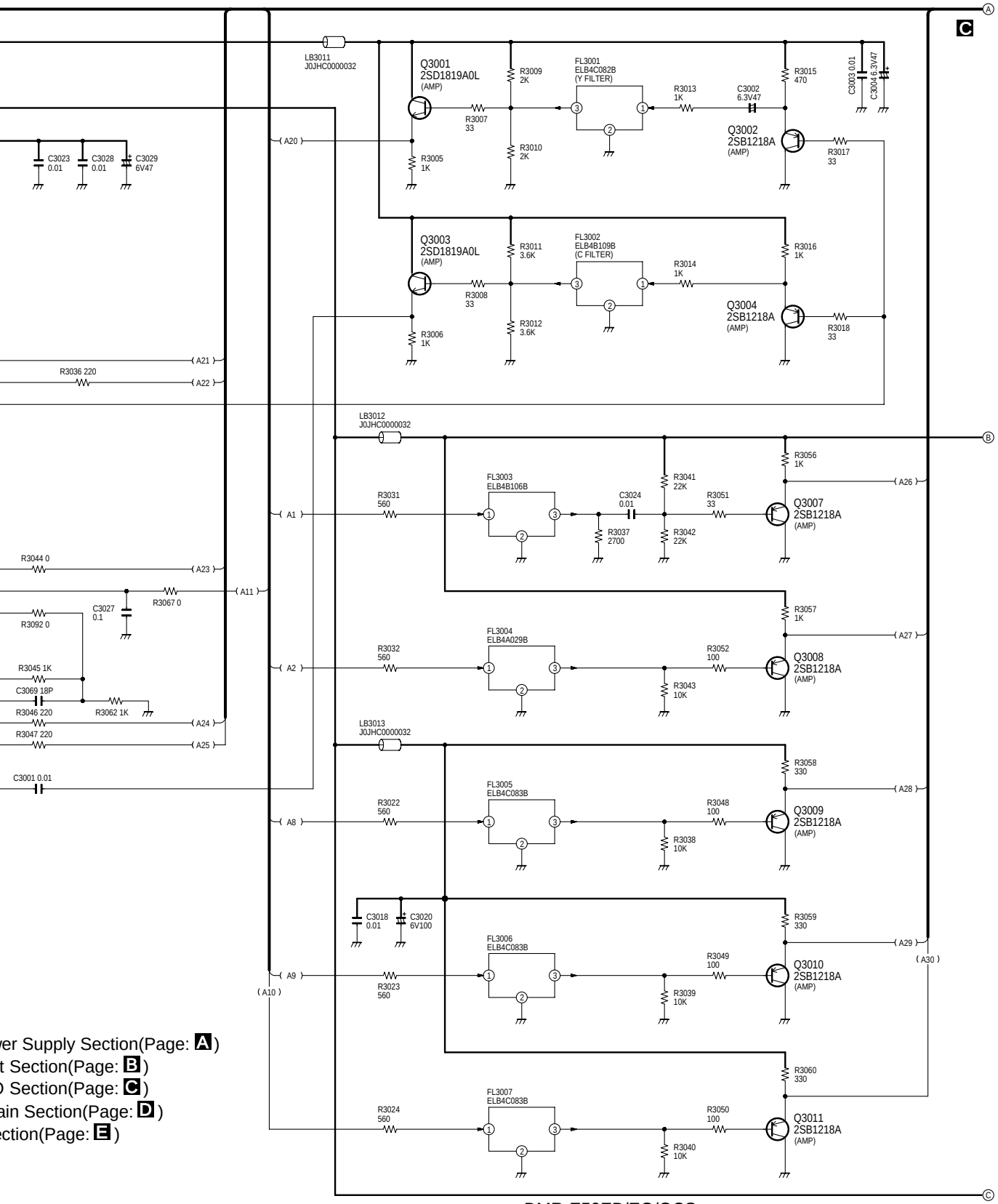
B. (2/5))

DMR-E50EB/EG/GCS
Main Net Section(Main P.C.B. (2/5))
Schematic Diagram(M)

17 | 18 | 19 | 20 | 21 | 22

14.5. Video I/O Schematic Diagram (V) (Main P.C.B. 3/5)

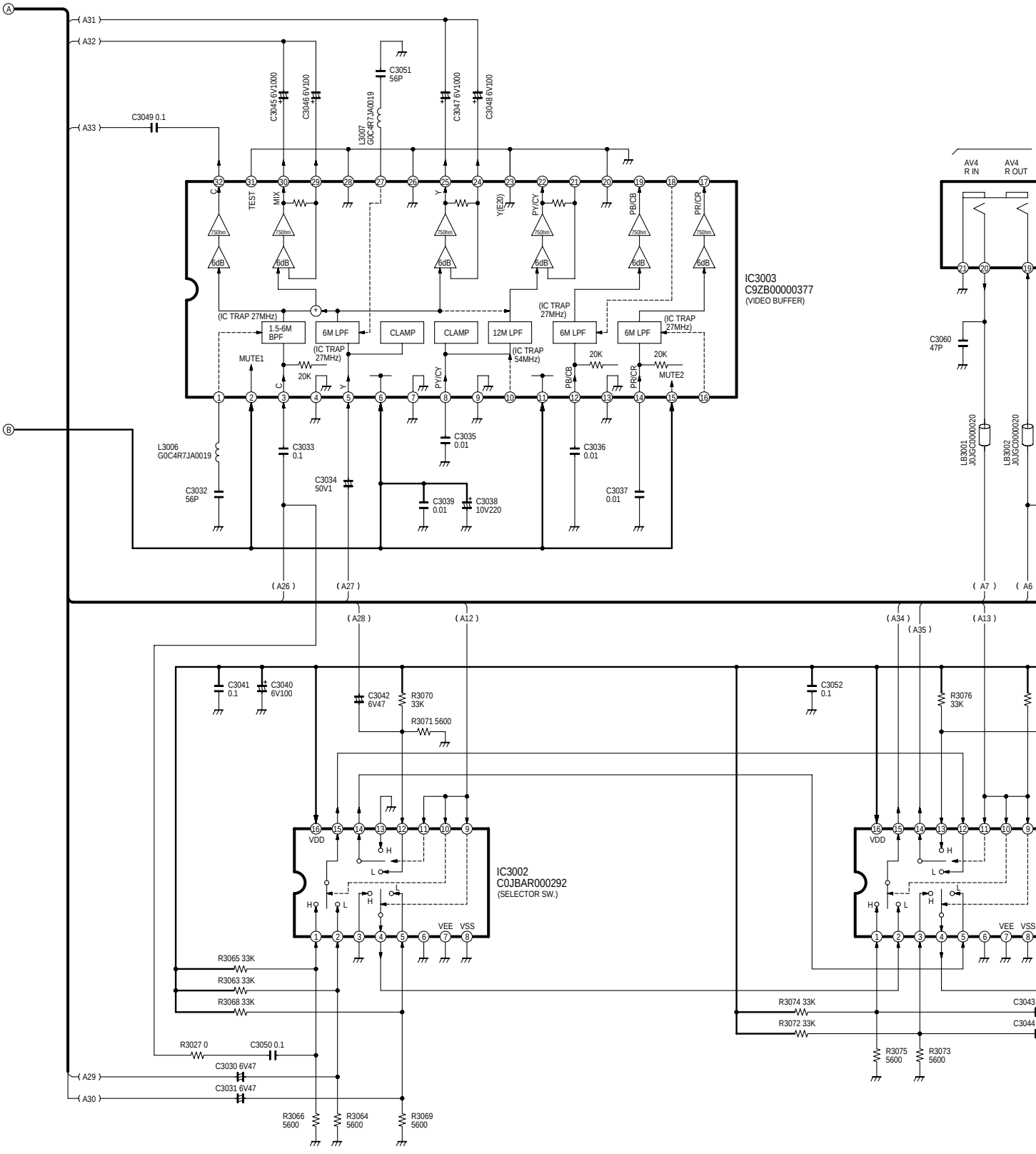




wer Supply Section(Page: A)
t Section(Page: B)
O Section(Page: C)
ain Section(Page: D)
ection(Page: E)

DMR-E50EB/EG/GCS
Video I/O Section(Main P.C.B. (3/5))Schematic Diagram(V)

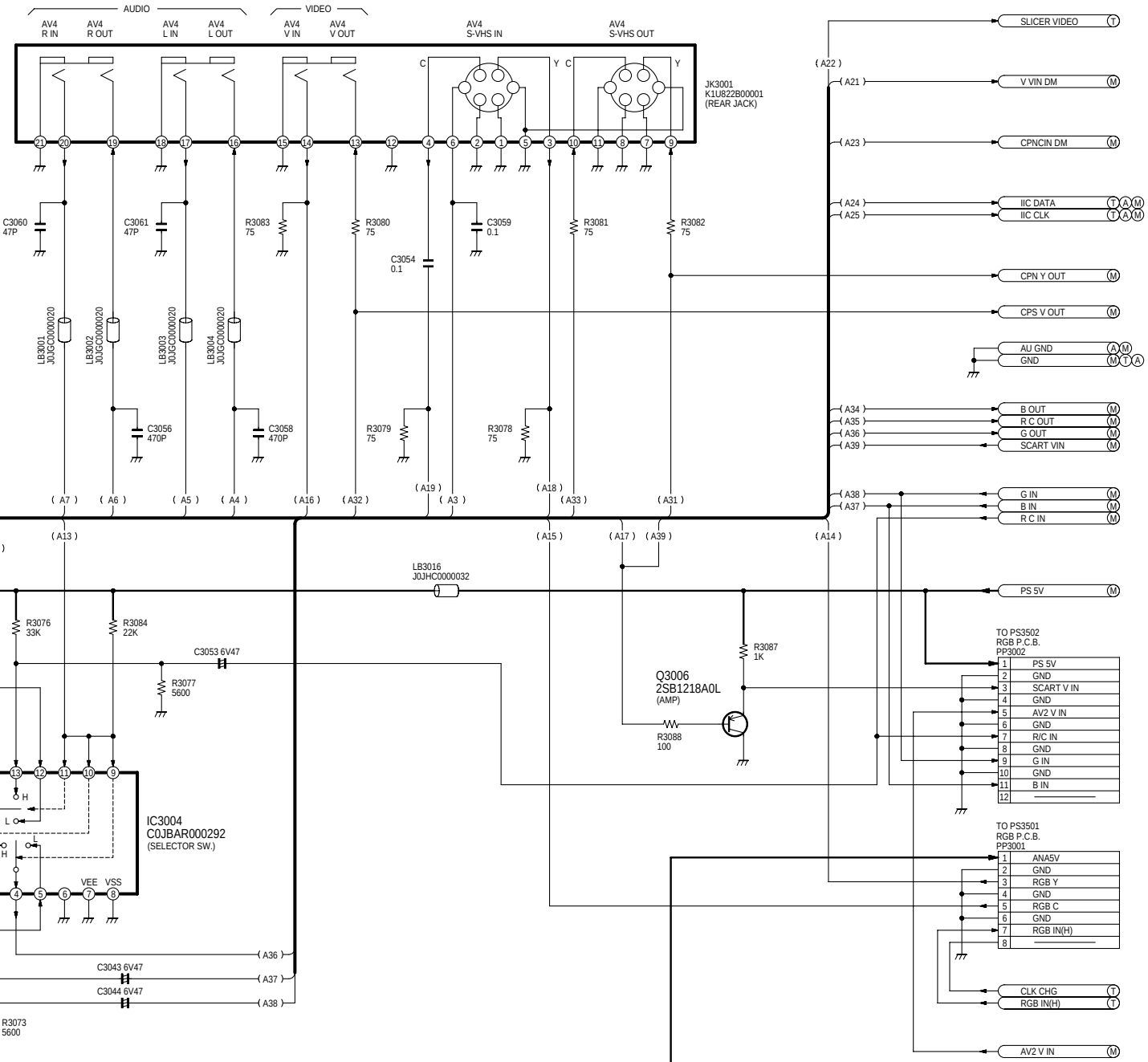
6 | 7 | 8 | 9 | 10 | 11



DMR-E50EB/EG/GCS
Video I/O Section(Main P.C.B. (3/5))Schematic Diagram(V)

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

C



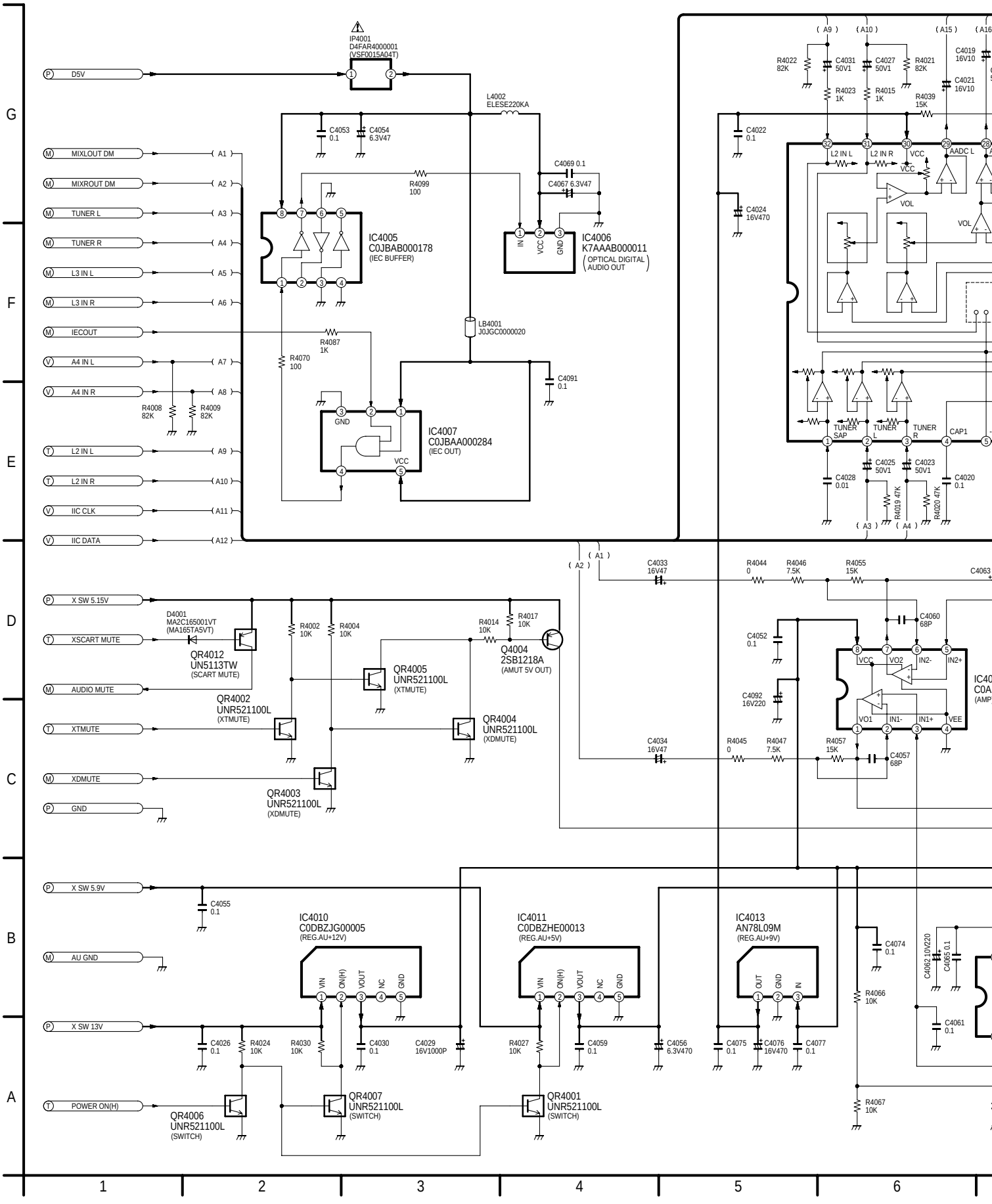
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

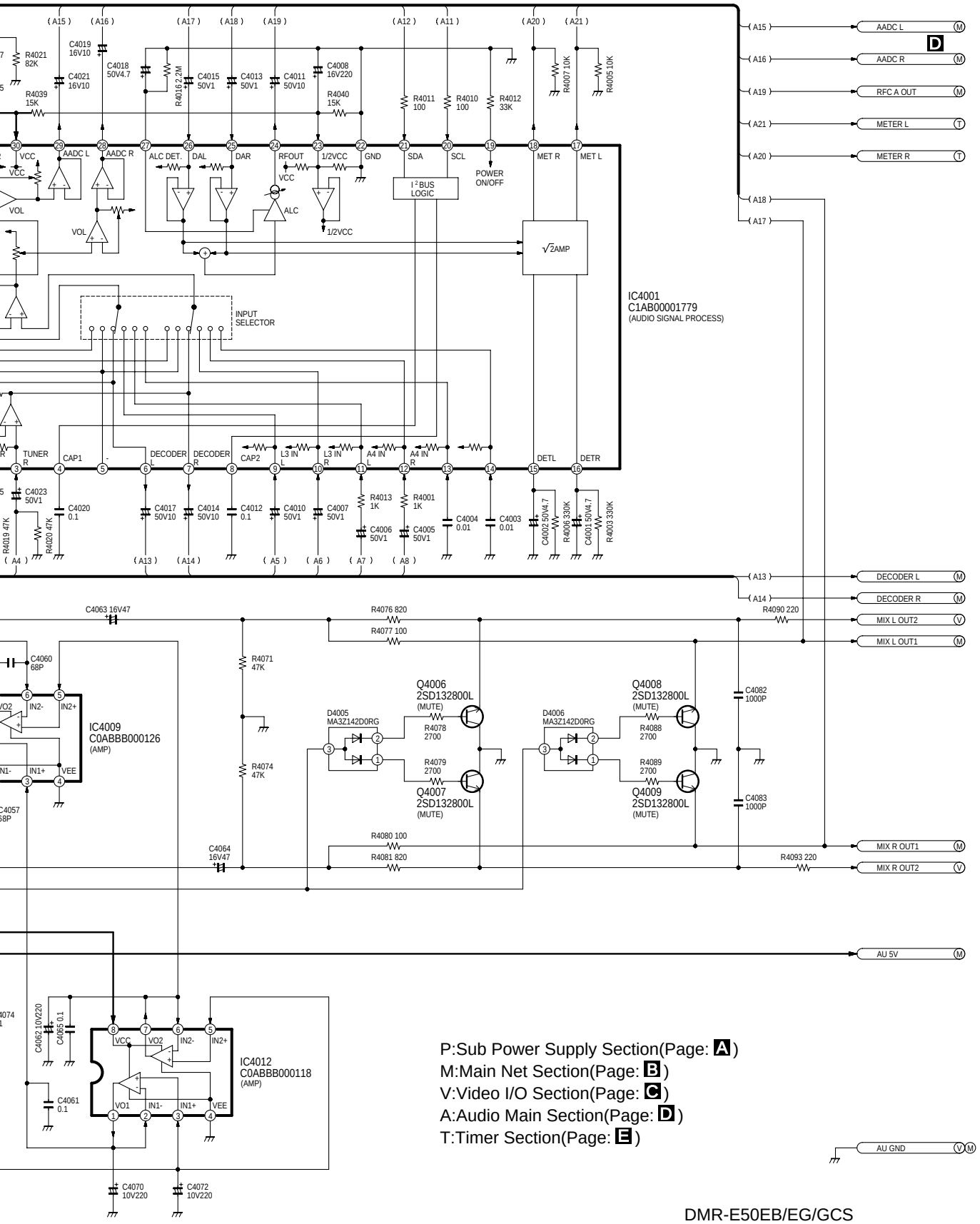
DMR-E50EB/EG/GCS
Video I/O Section(Main P.C.B. (3/5))
Schematic Diagram(V)

(V)

17	18	19	20	21	22

14.6. Audio Schematic Diagram (A) (Main P.C.B. 4/5)





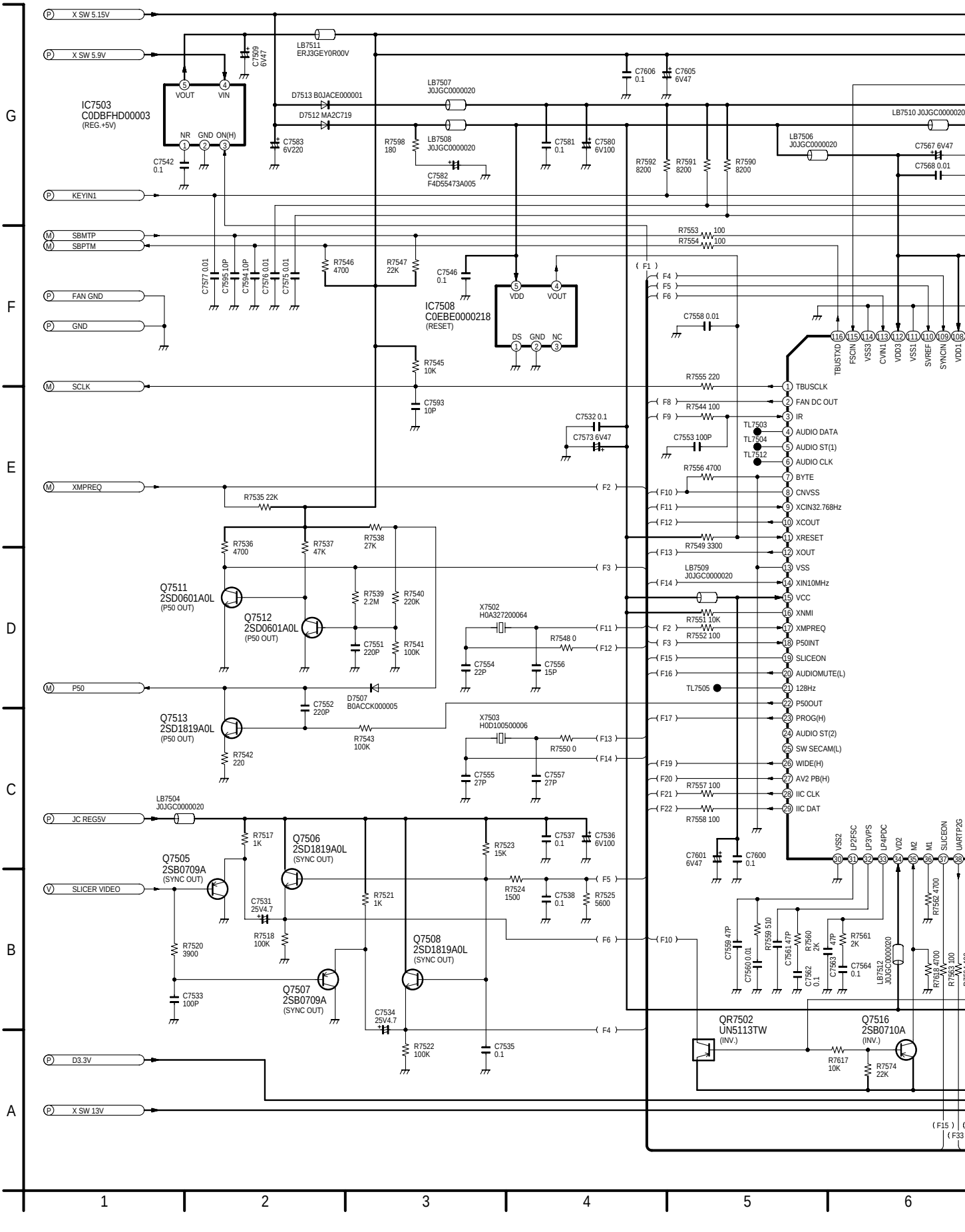
P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

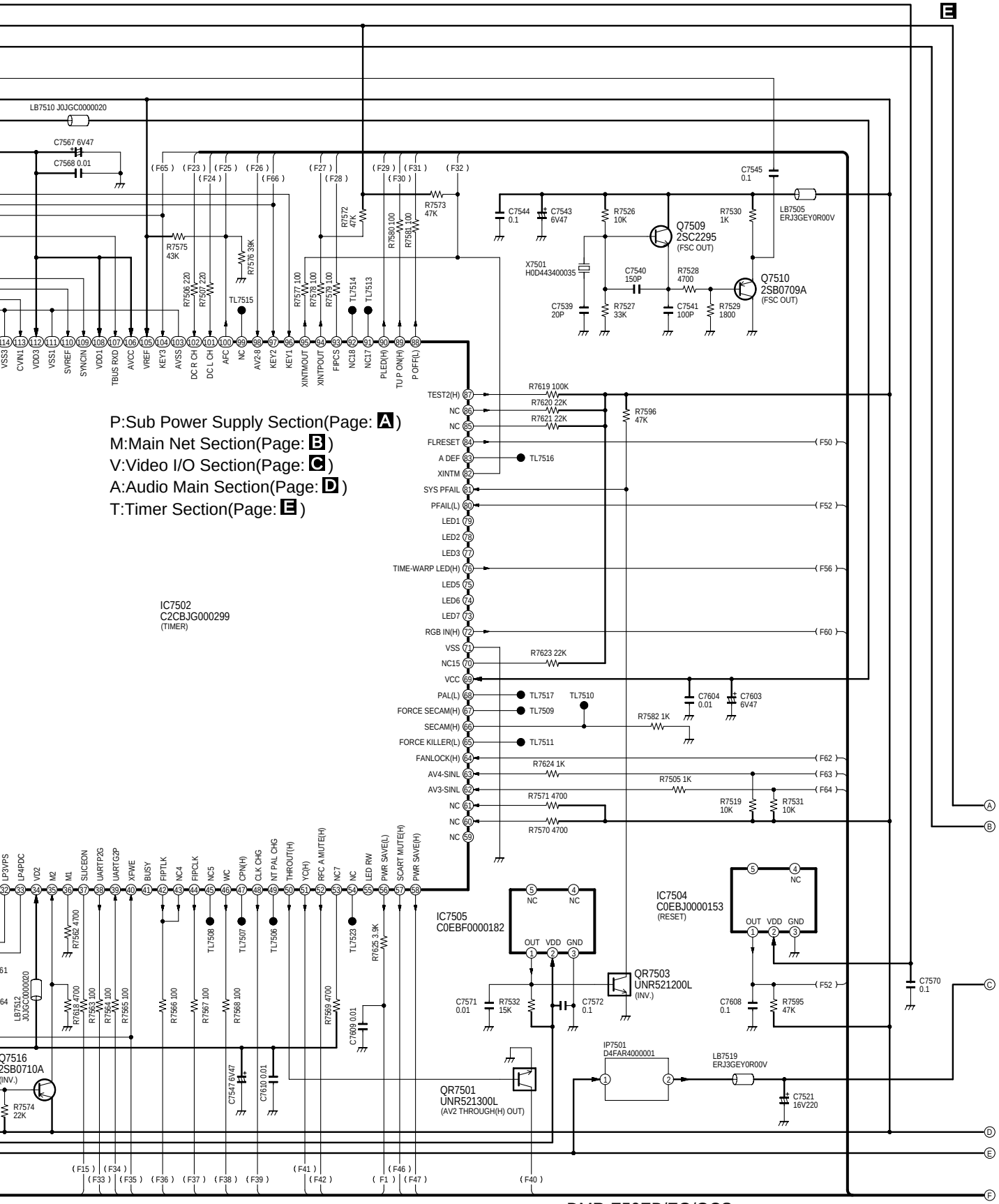
DMR-E50EB/EG/GCS
Audio Main Section(Main P.C.B. (4/5))
Schematic Diagram(A)

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 DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

6 | 7 | 8 | 9 | 10 | 11

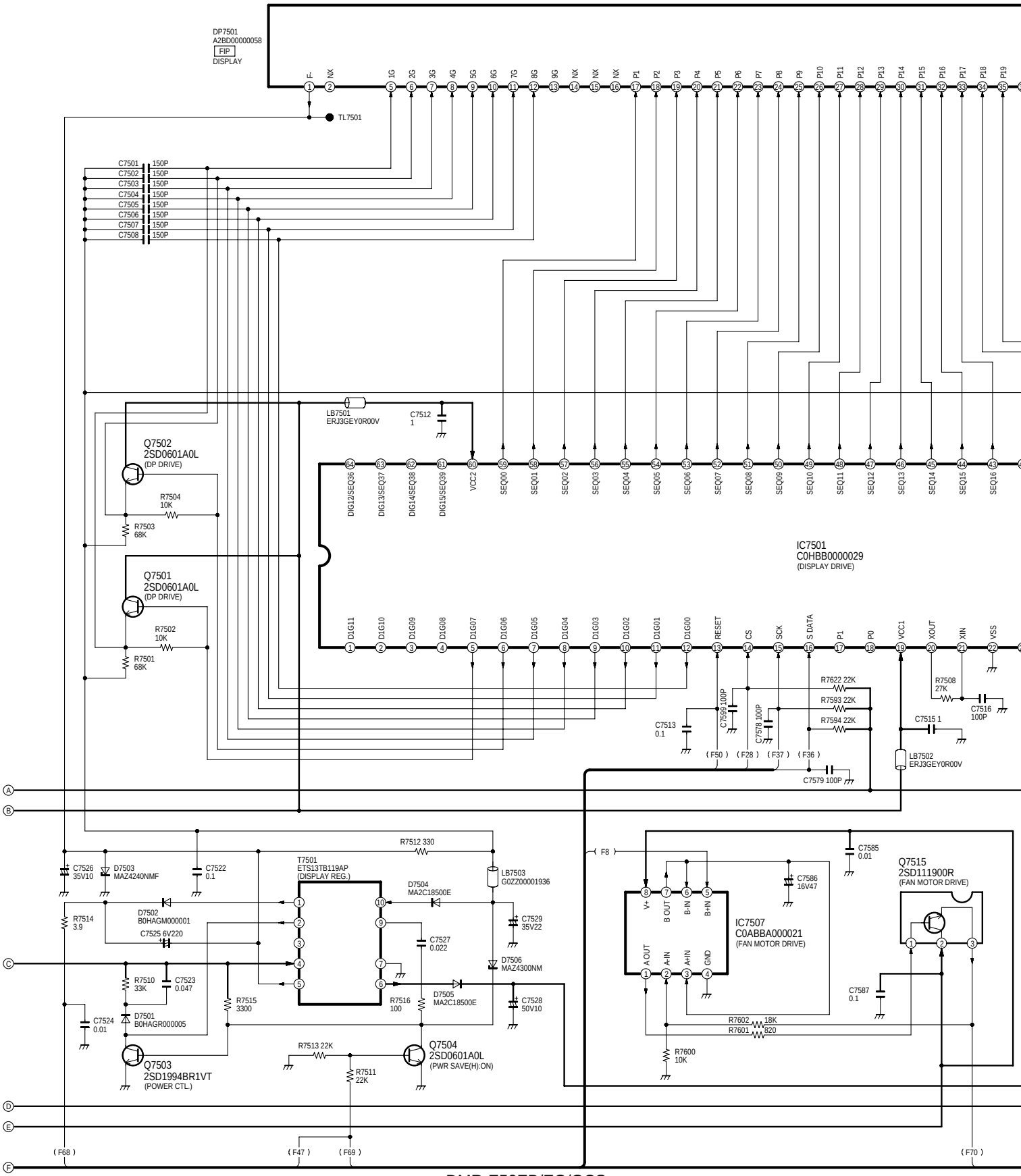
14.7. Timer Schematic Diagram (T) (Main P.C.B. 5/5)





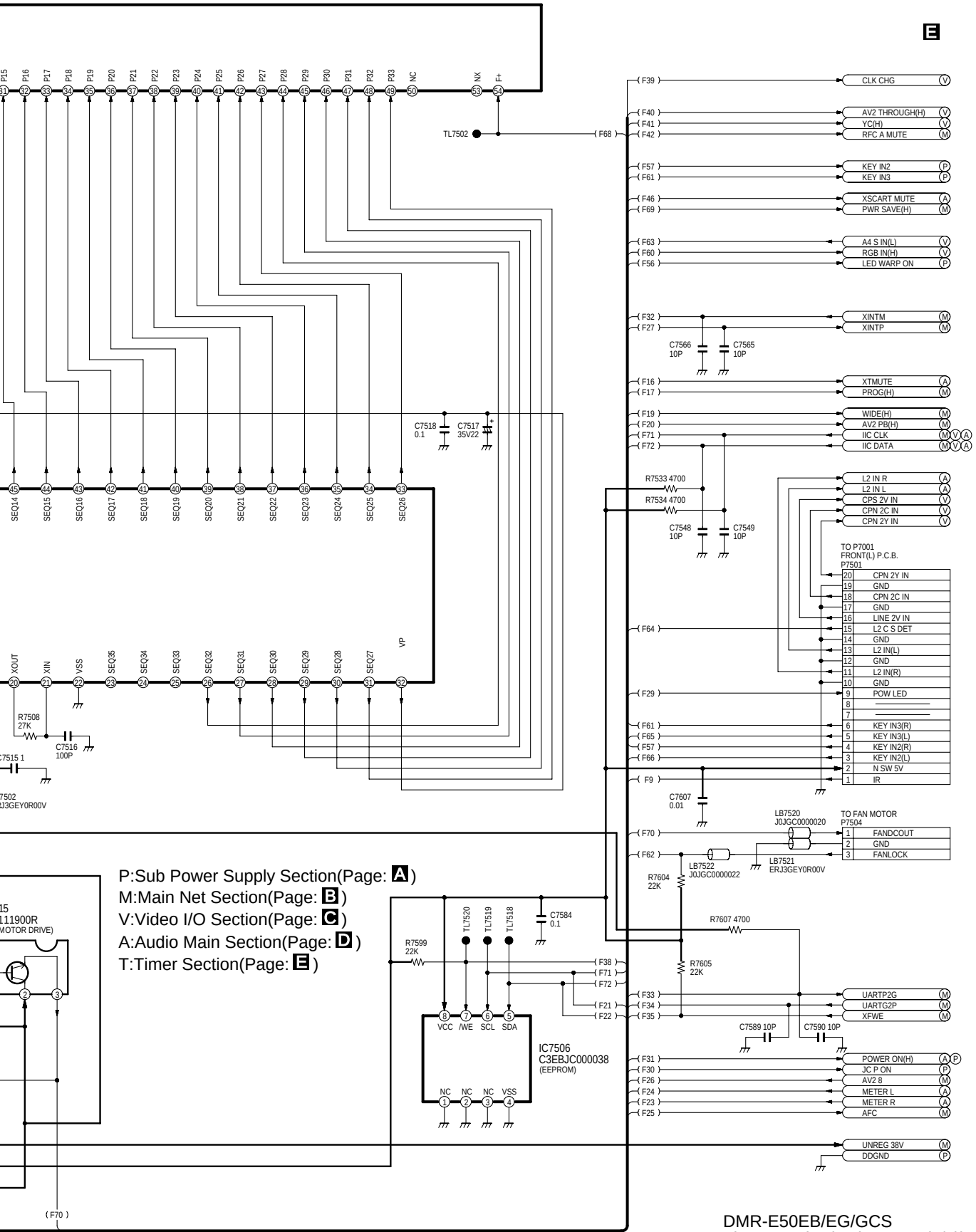
DMR-E50EB/EG/GCS
Timer Section(Main P.C.B. (5/5))Schematic Diagram(T)

6 | 7 | 8 | 9 | 10 | 11



DMR-E50EB/EG/GCS
Timer Section(Main P.C.B. (5/5)) Schematic Diagram(T)

NOTE:D
IN TH



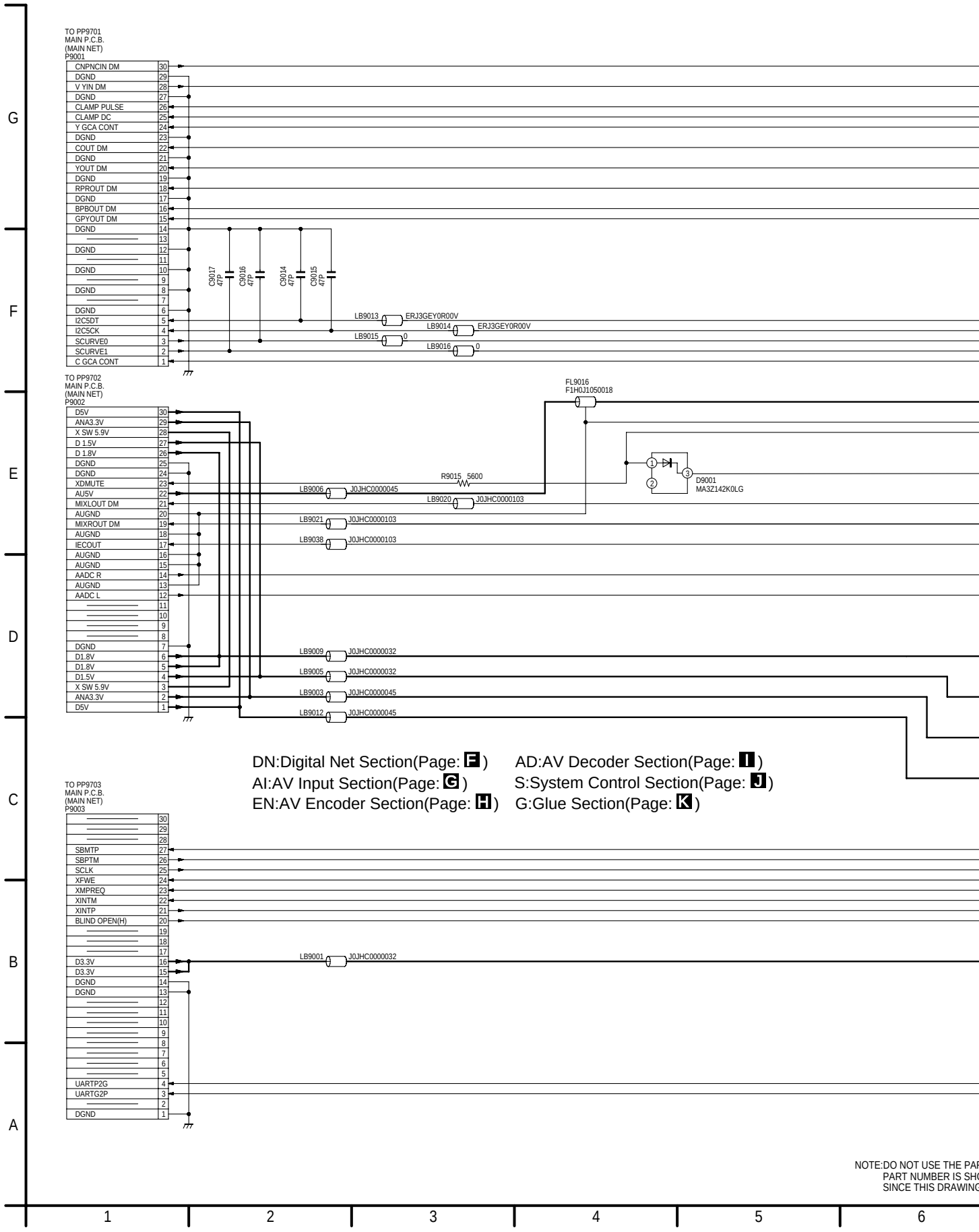
P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

DMR-E50EB/EG/GCS
Timer Section(Main P.C.B. (5/5))
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.

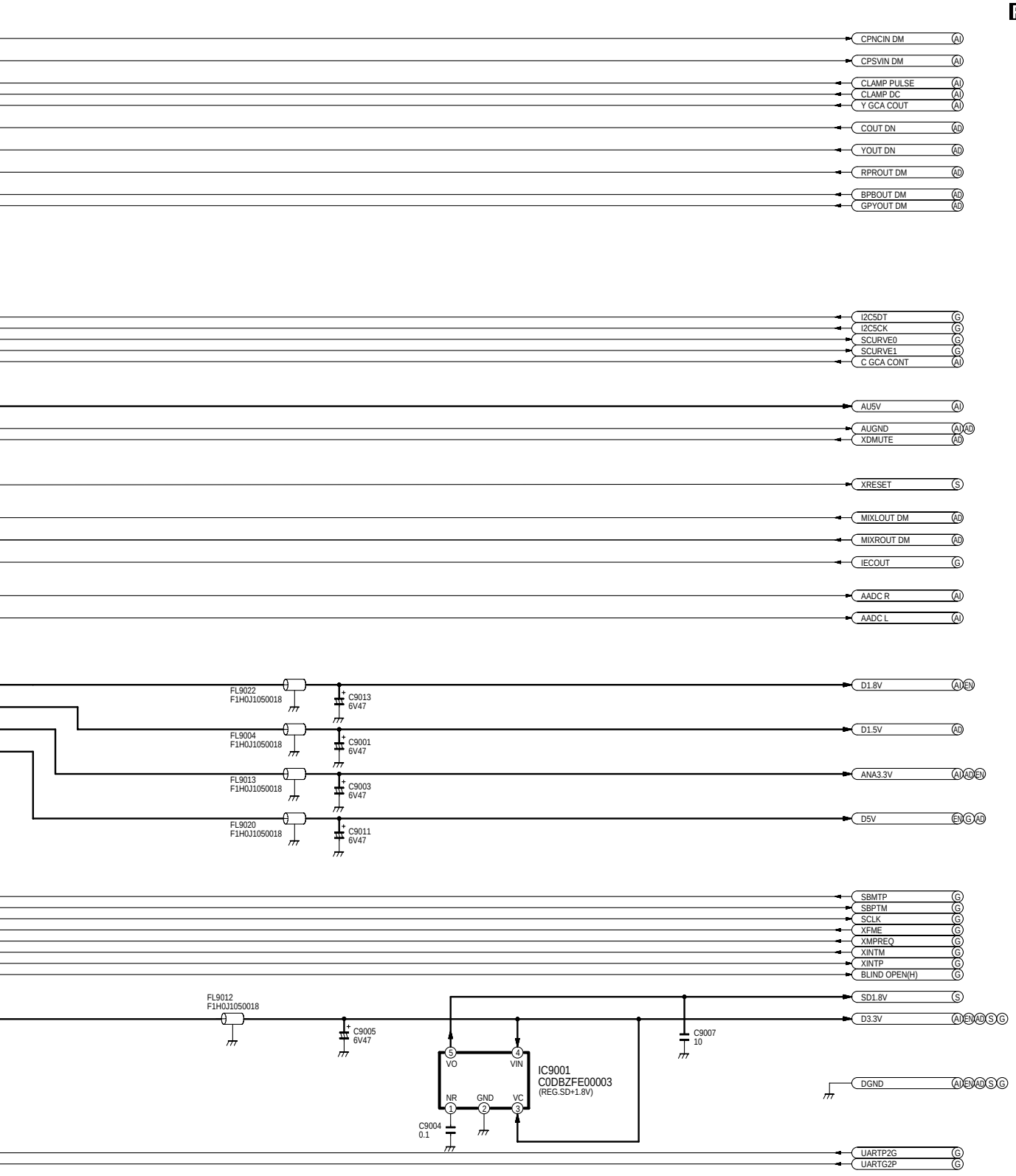
18 19 20 21 22

14.8. Digital Net Schematic Diagram (DN) (Digital P.C.B. 1/6)



DN:Digital Net Section(Page: F) AD:AV Decoder Section(Page: I)
AI:AV Input Section(Page: G) S:System Control Section(Page: J)
EN:AV Encoder Section(Page: H) G:Glue Section(Page: K)

NOTE:DO NOT USE THE PAR
PART NUMBER IS SH
SINCE THIS DRAWING

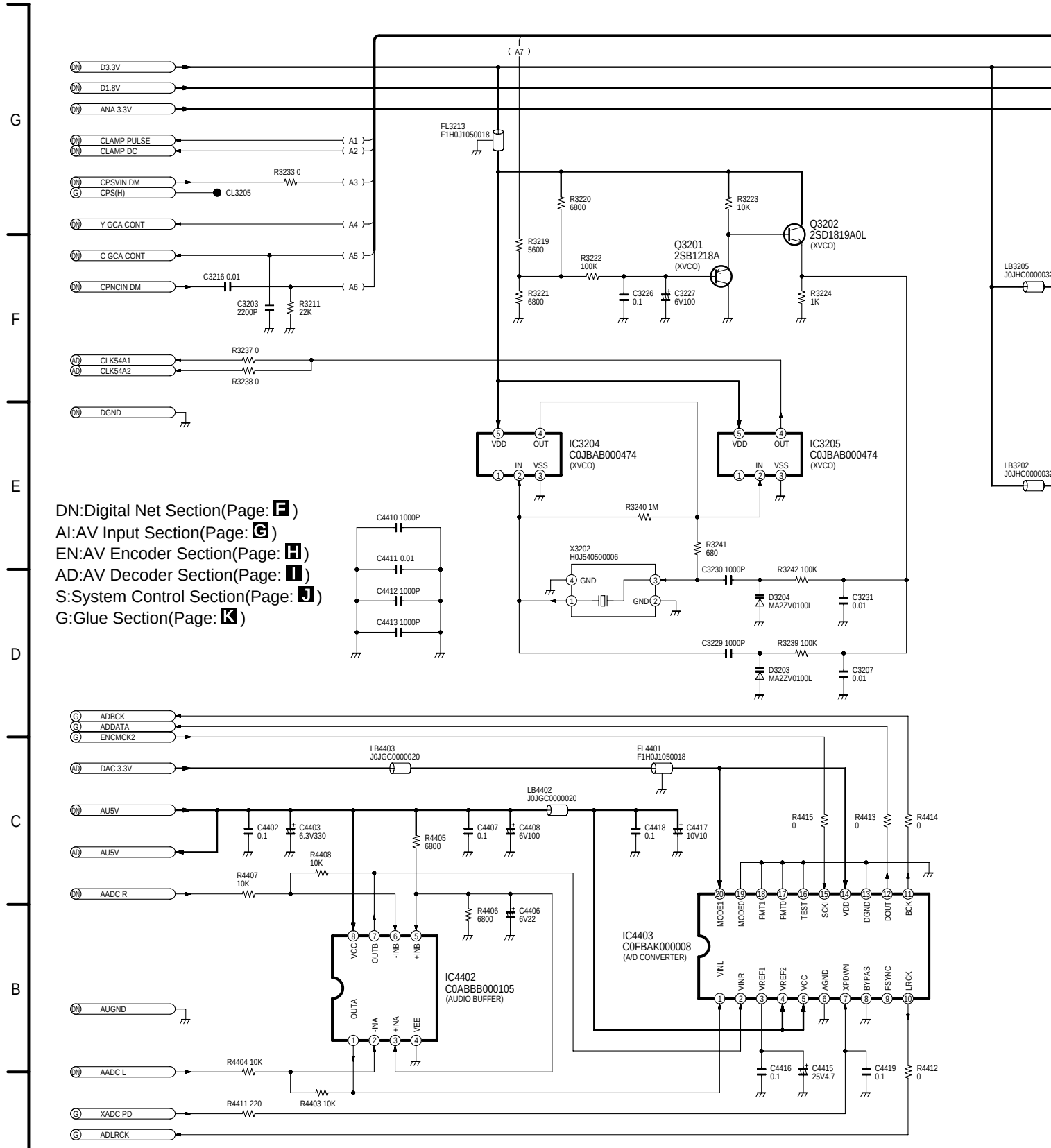


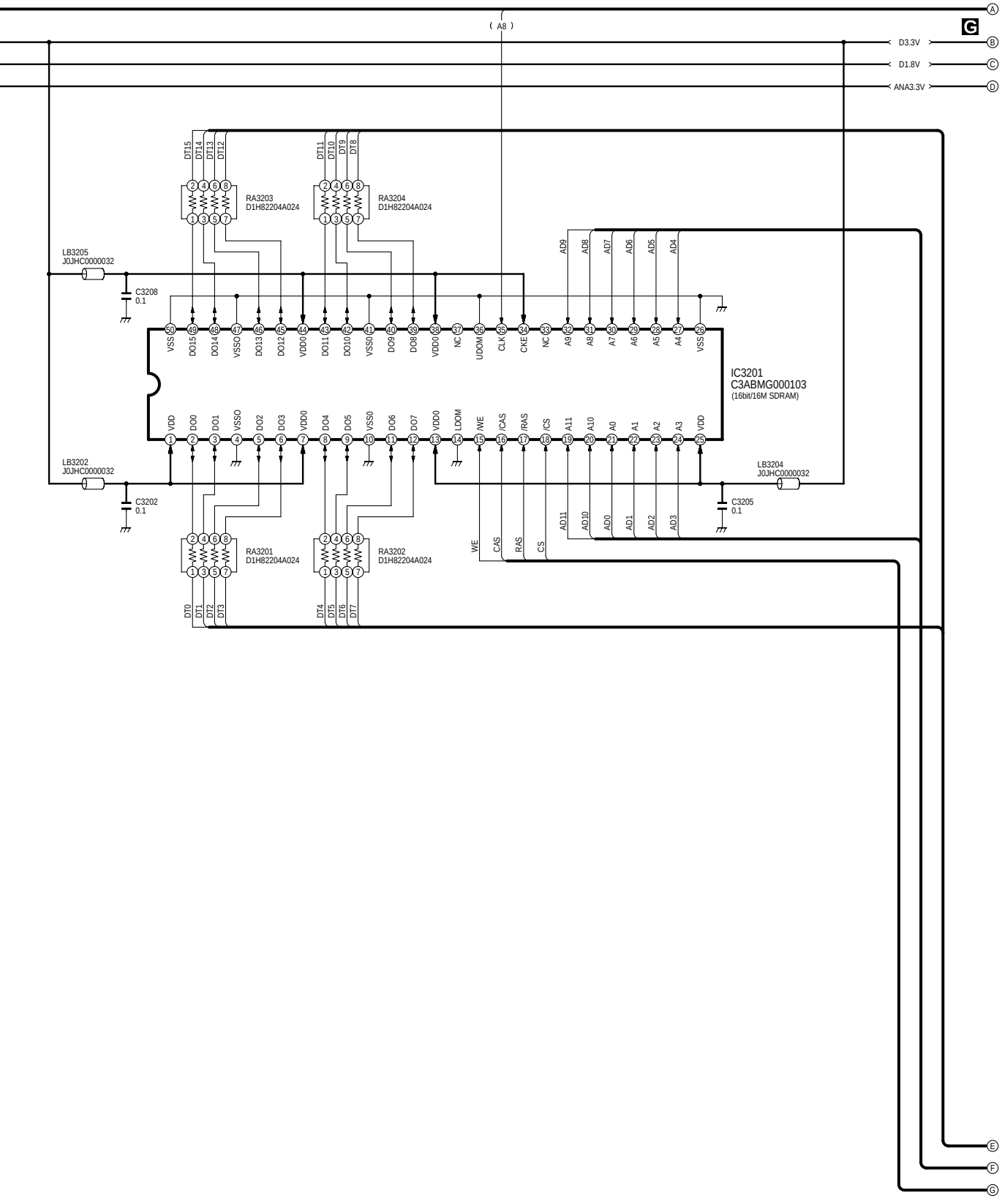
E:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E50EB/EG/GCS
Digital Net Section(Digital P.C.B.(1/6))
Schematic Diagram(DN)

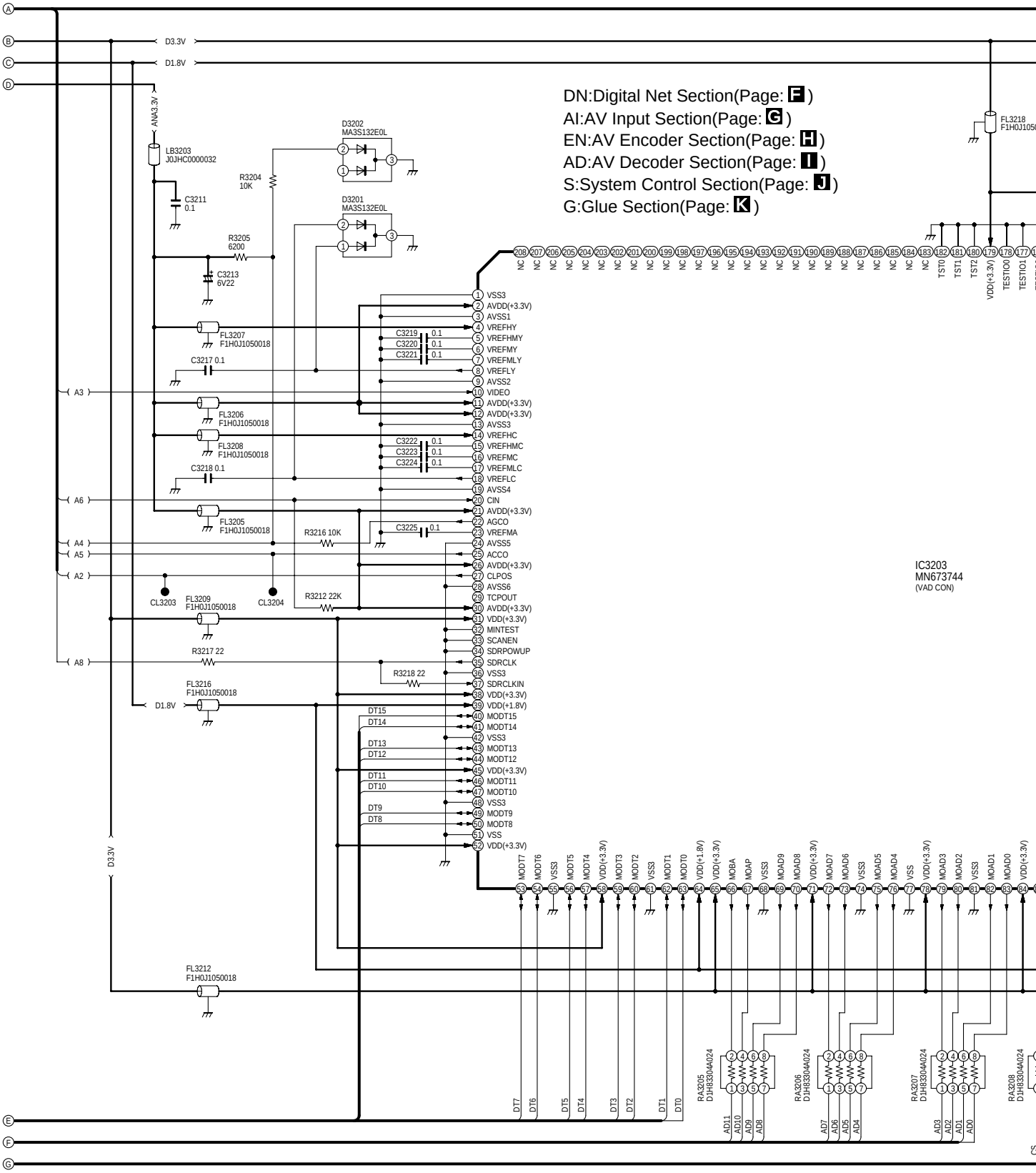
6 | 7 | 8 | 9 | 10 | 11

14.9. AV Input Schematic Diagram (AI) (Digital P.C.B. 2/6)

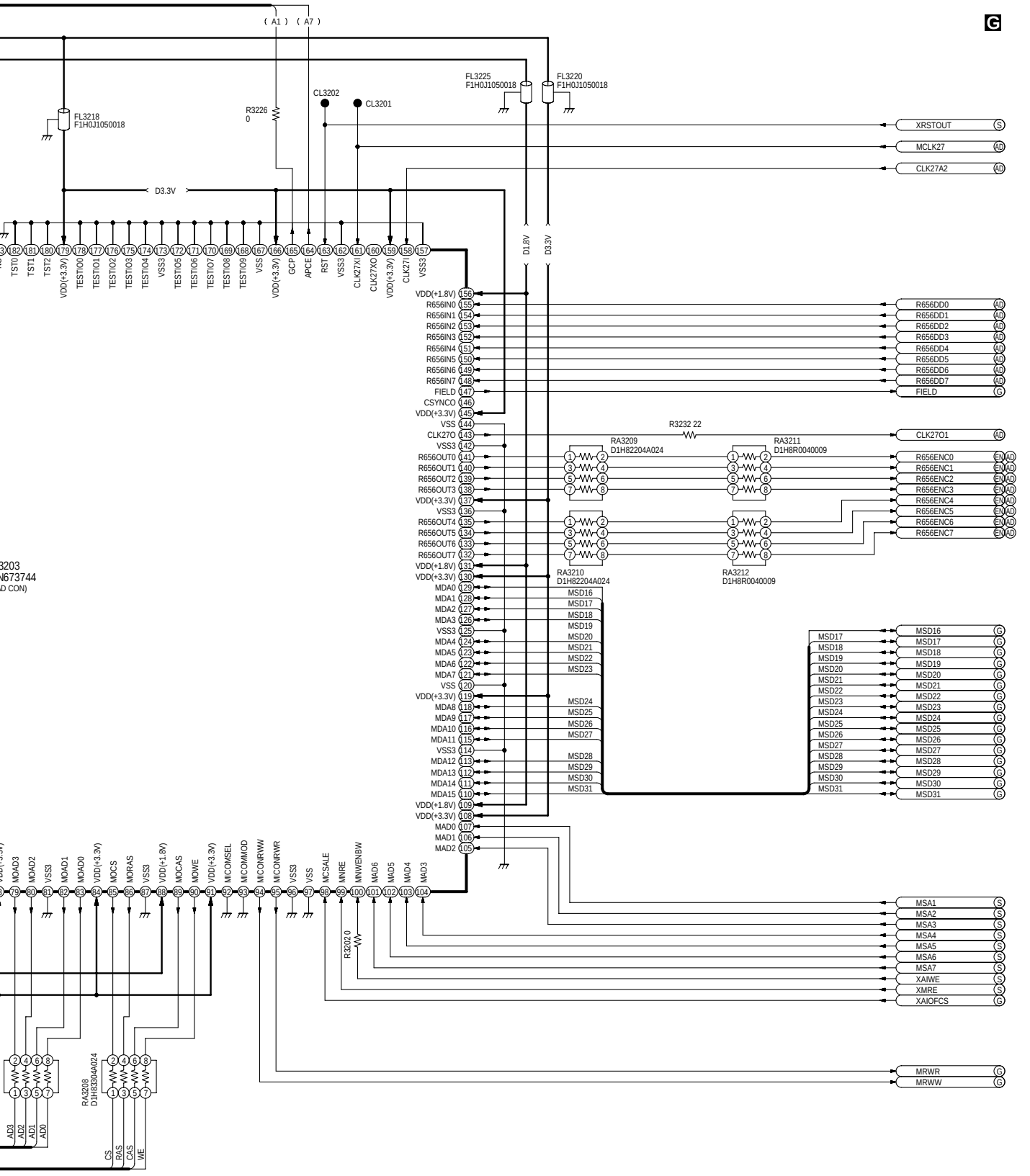




DMR-E50EB/EG/GCS
AV Input Section(Digital P.C.B.(2/6))
Schematic Diagram(AI)



DMR-E50EB/EG/GCS
AV Input Section(Digital P.C.B.(2/6)) Schematic Diagram(AI)



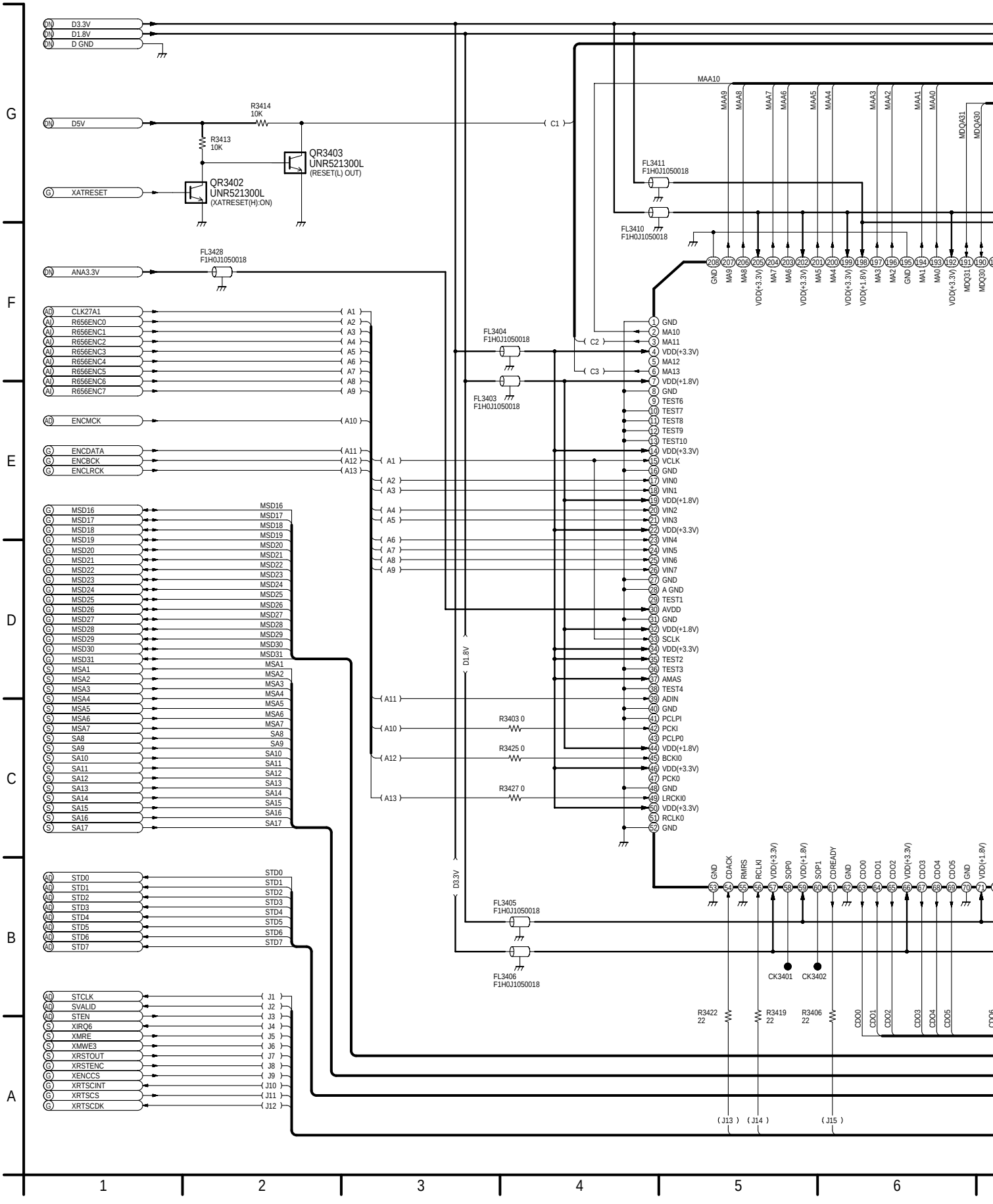
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

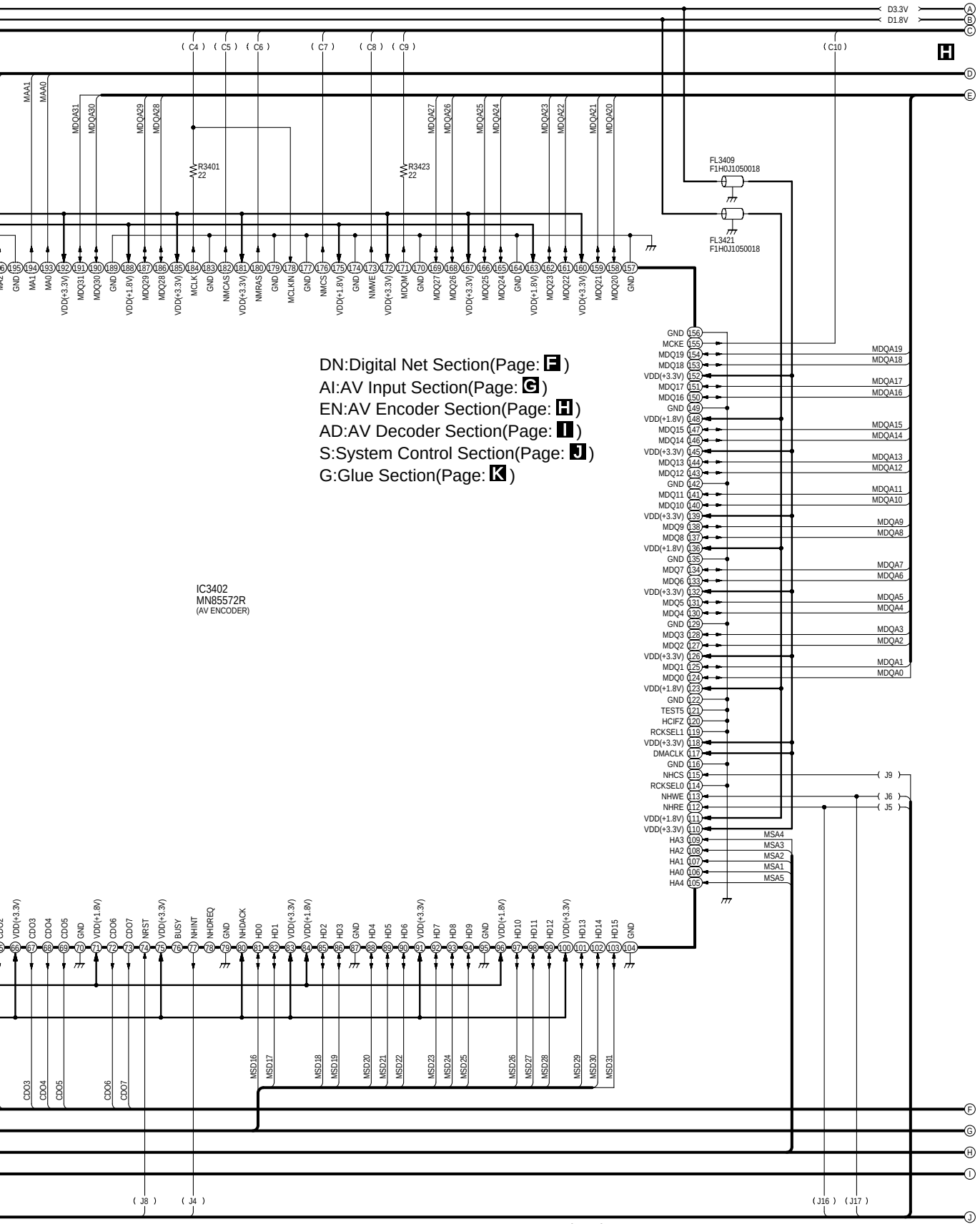
DMR-E50EB/EG/GCS
AV Input Section
(Digital P.C.B.(2/6))
Schematic Diagram(AI)

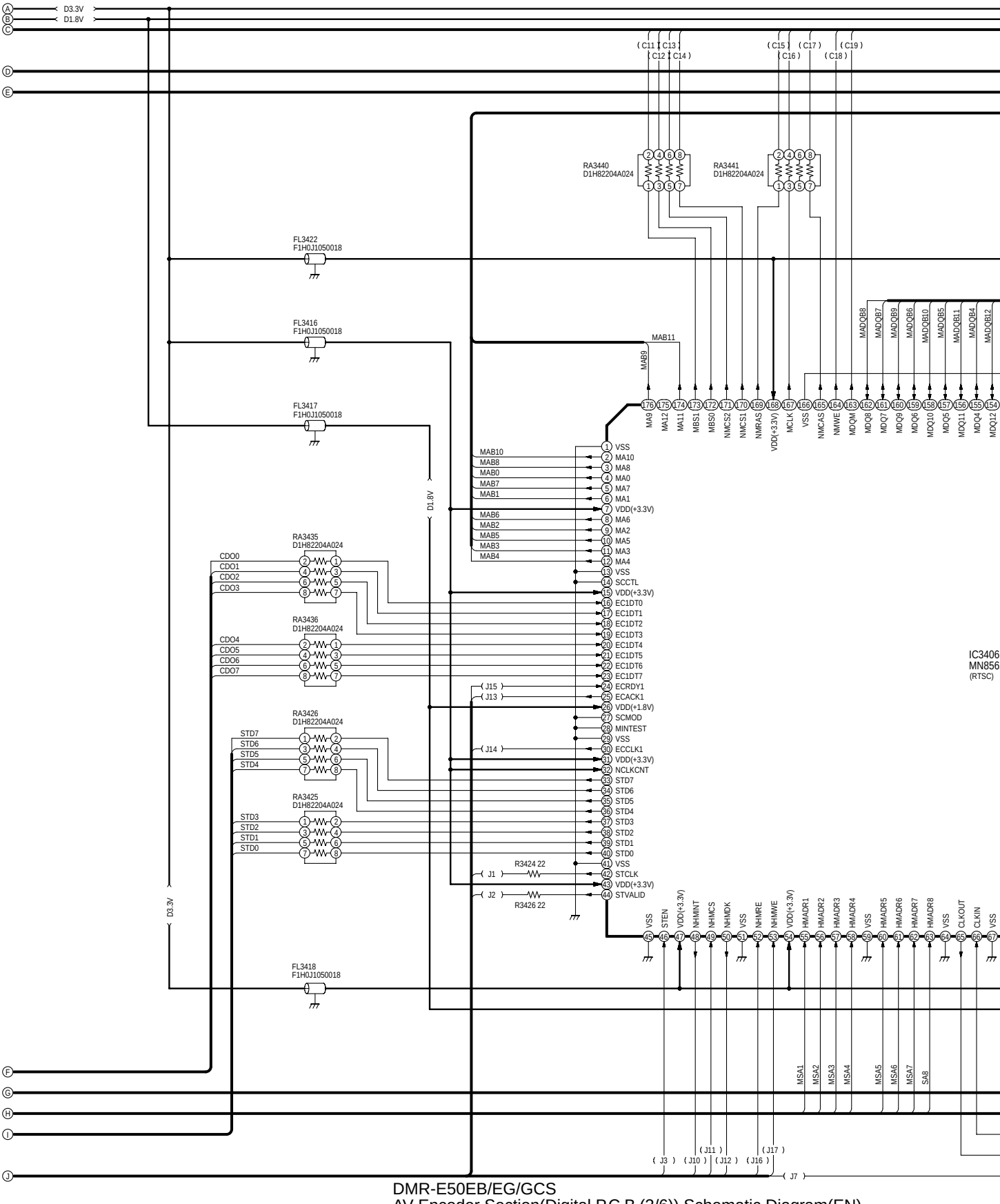
m(AI)

17 | 18 | 19 | 20 | 21 | 22

14.10. AV Encoder Schematic Diagram (EN) (Digital P.C.B. 3/6)

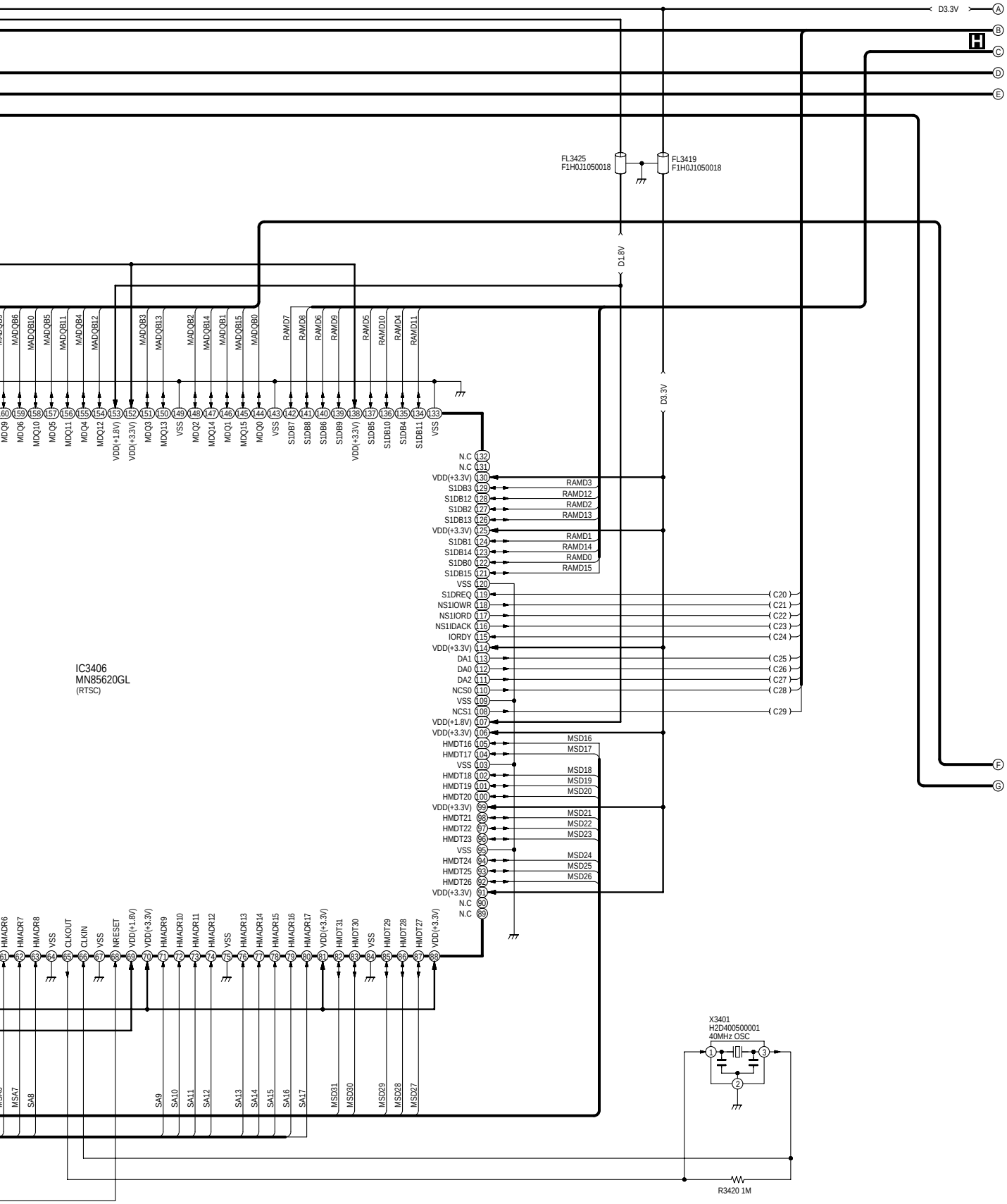



D3.3V
D1.8V
H
R3401
22
R3423
22
FL3409
F1H0J1050018
FL3421
F1H0J1050018
DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
IC3402
MN85572R
(AV ENCODER)
MDQA19
MDQA18
MDQA17
MDQA16
MDQA15
MDQA14
MDQA13
MDQA12
MDQA11
MDQA10
MDQA9
MDQA8
MDQA7
MDQA6
MDQA5
MDQA4
MDQA3
MDQA2
MDQA1
MDQA0
MSA4
MSA3
MSA2
MSA1
MSA5
J9
J6
J5
J8
J4
J16
J17
DMR-E50EB/EG/GCS
AV Encoder Section(Digital P.C.B.(3/6)) Schematic Diagram(EN)

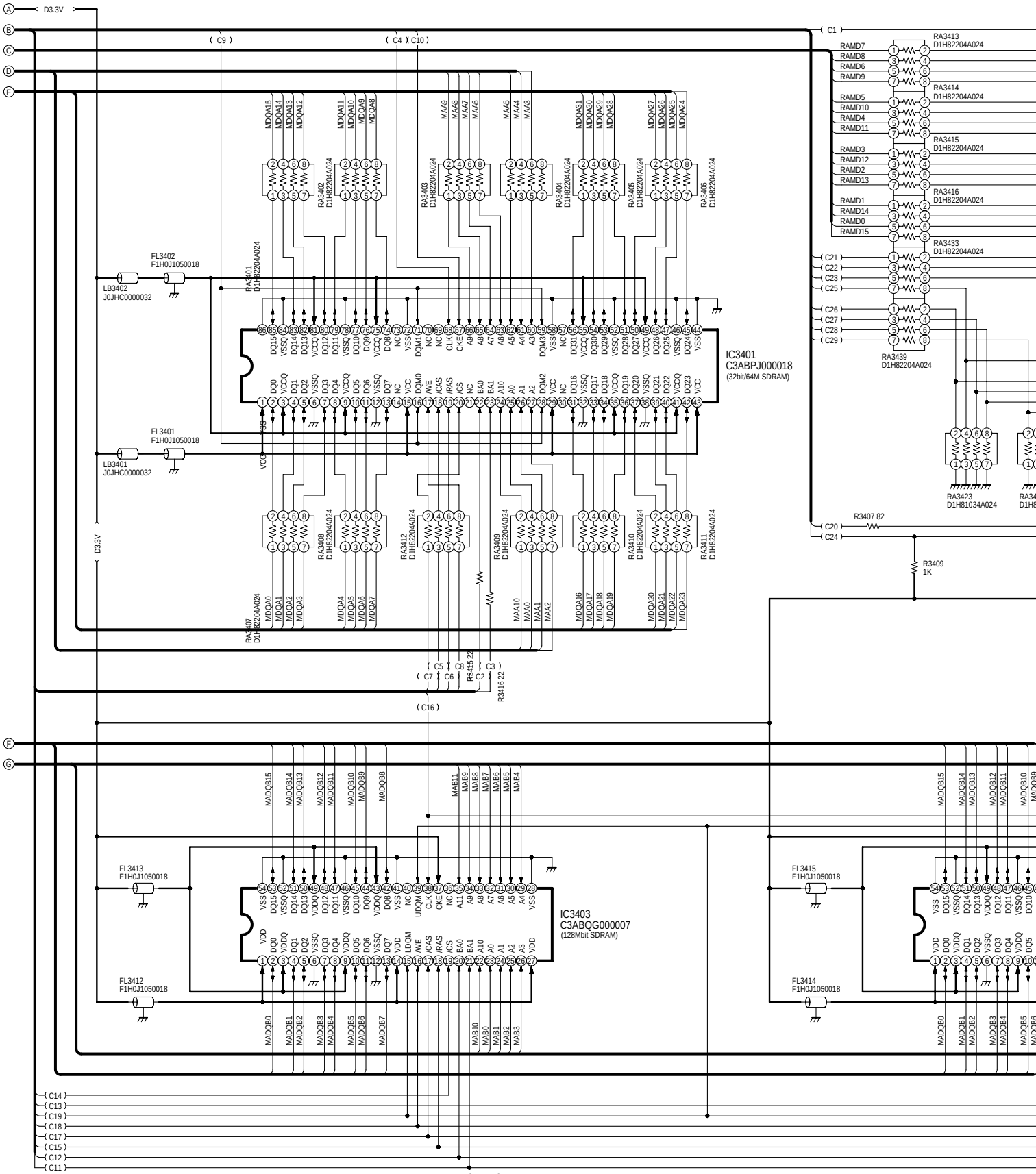


DMR-E50EB/EG/GCS
AV Encoder Section(Digital P.C.B.(3/6)) Schematic Diagram(EN)

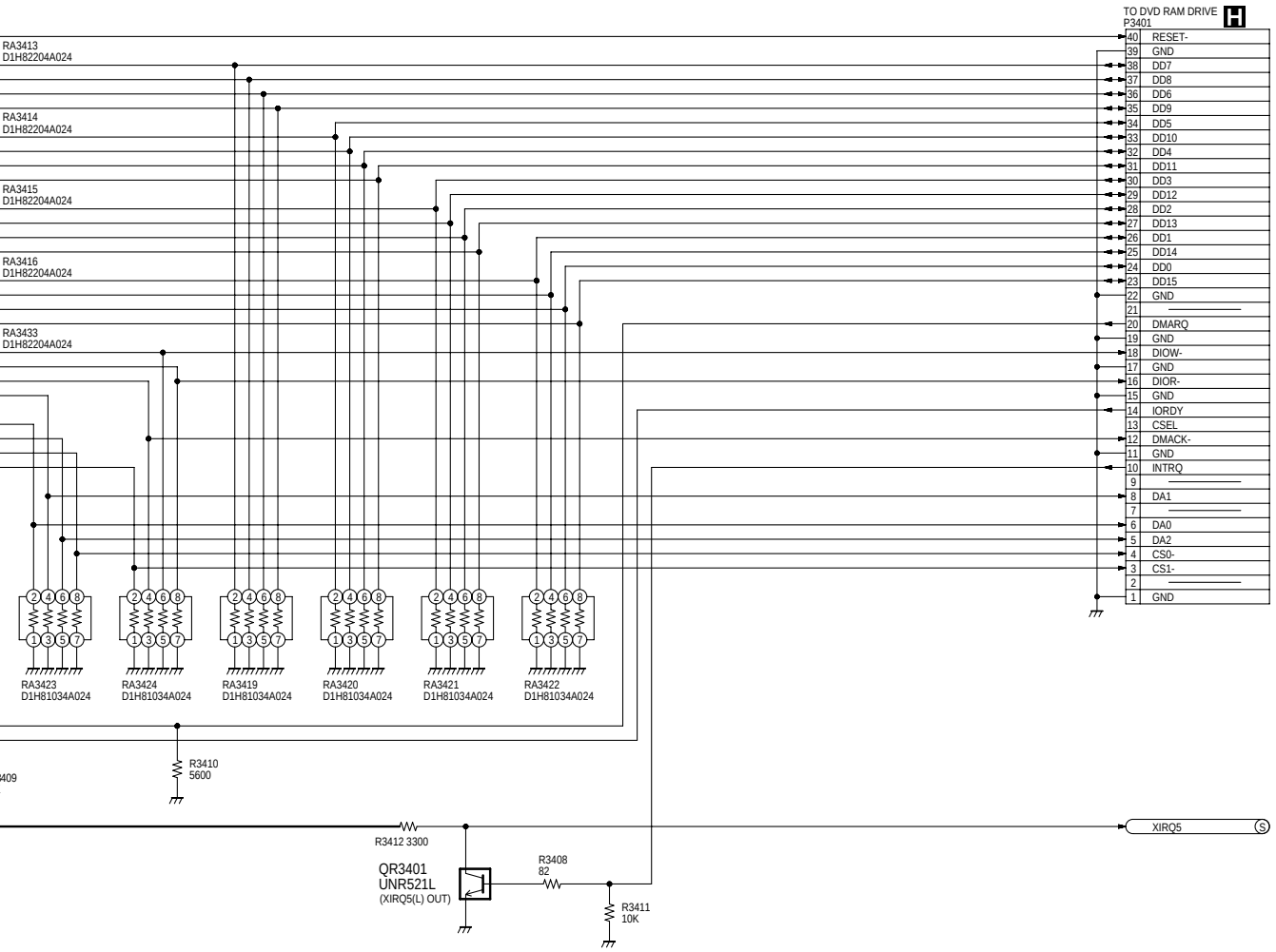
12 13 14 15 16 17

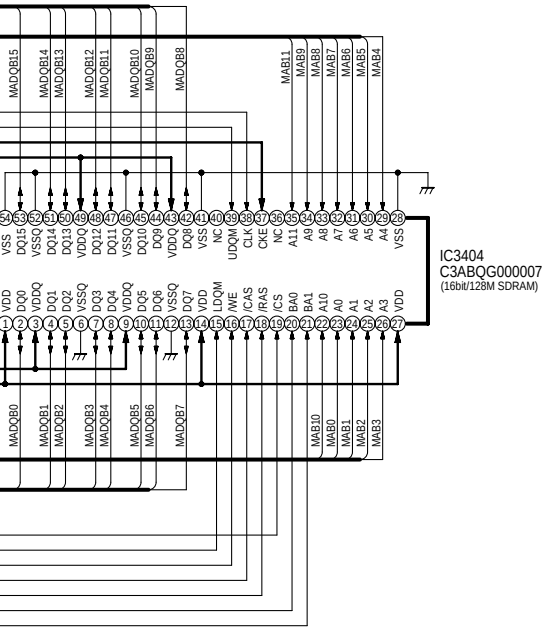


DMR-E50EB/EG/GCS
AV Encoder Section(Digital P.C.B.(3/6)) Schematic Diagram(EN)



DMR-E50EB/EG/GCS
AV Encoder Section(Digital P.C.B.(3/6)) Schematic Diagram(EN)





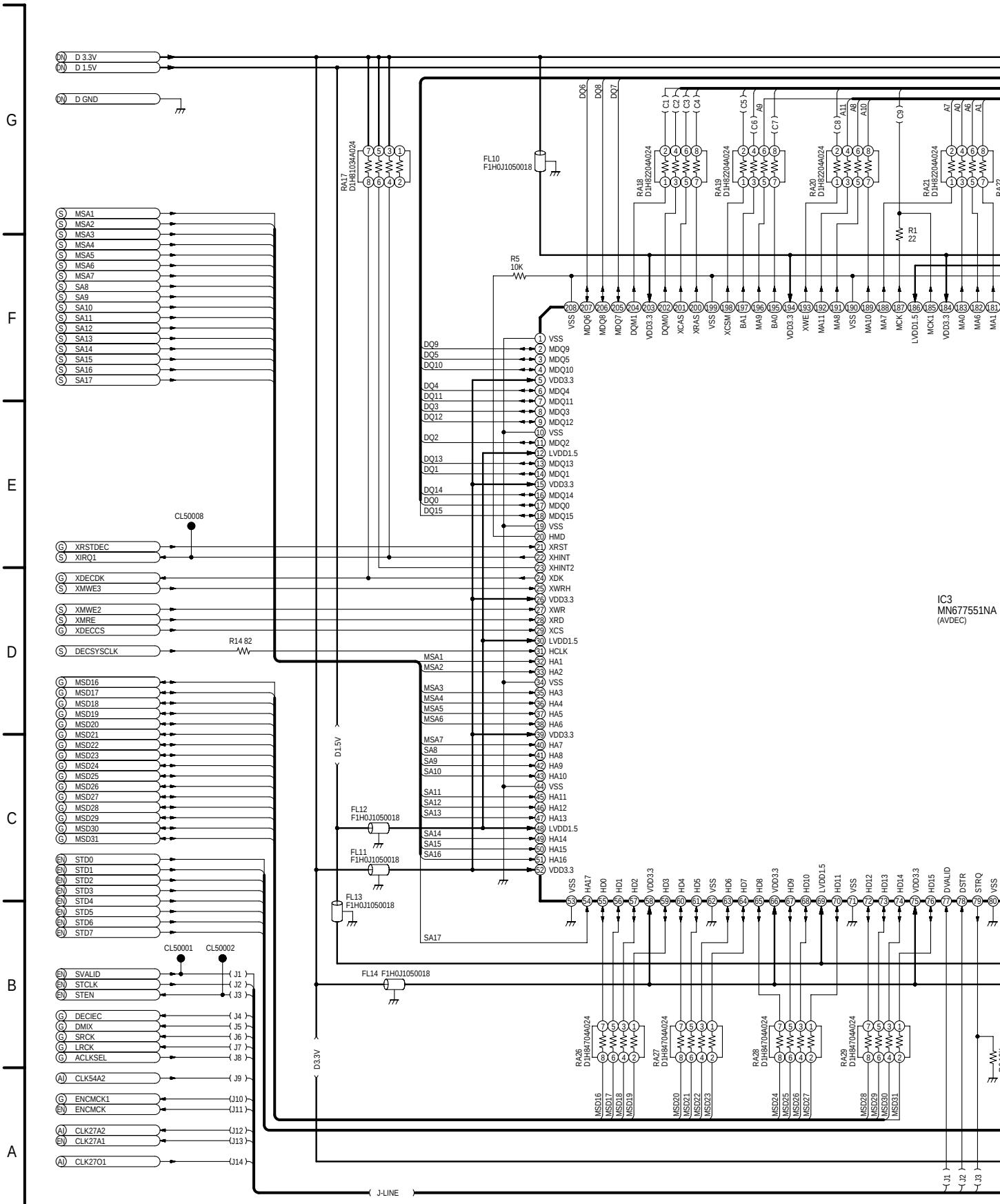
DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)

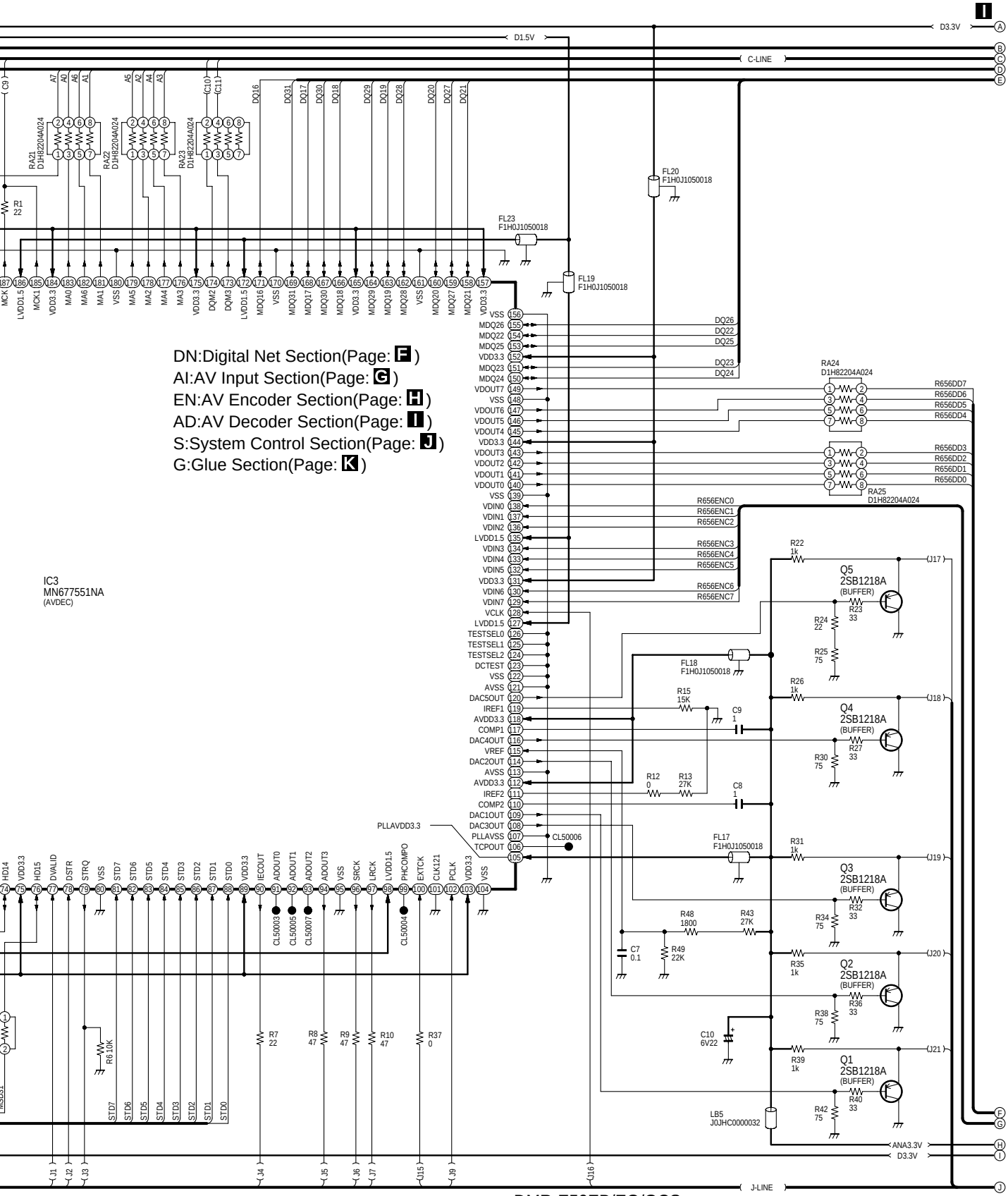
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E50EB/EG/GCS
AV Encoder Section(Digital P.C.B.(3/6)) Schematic Diagram(EN)

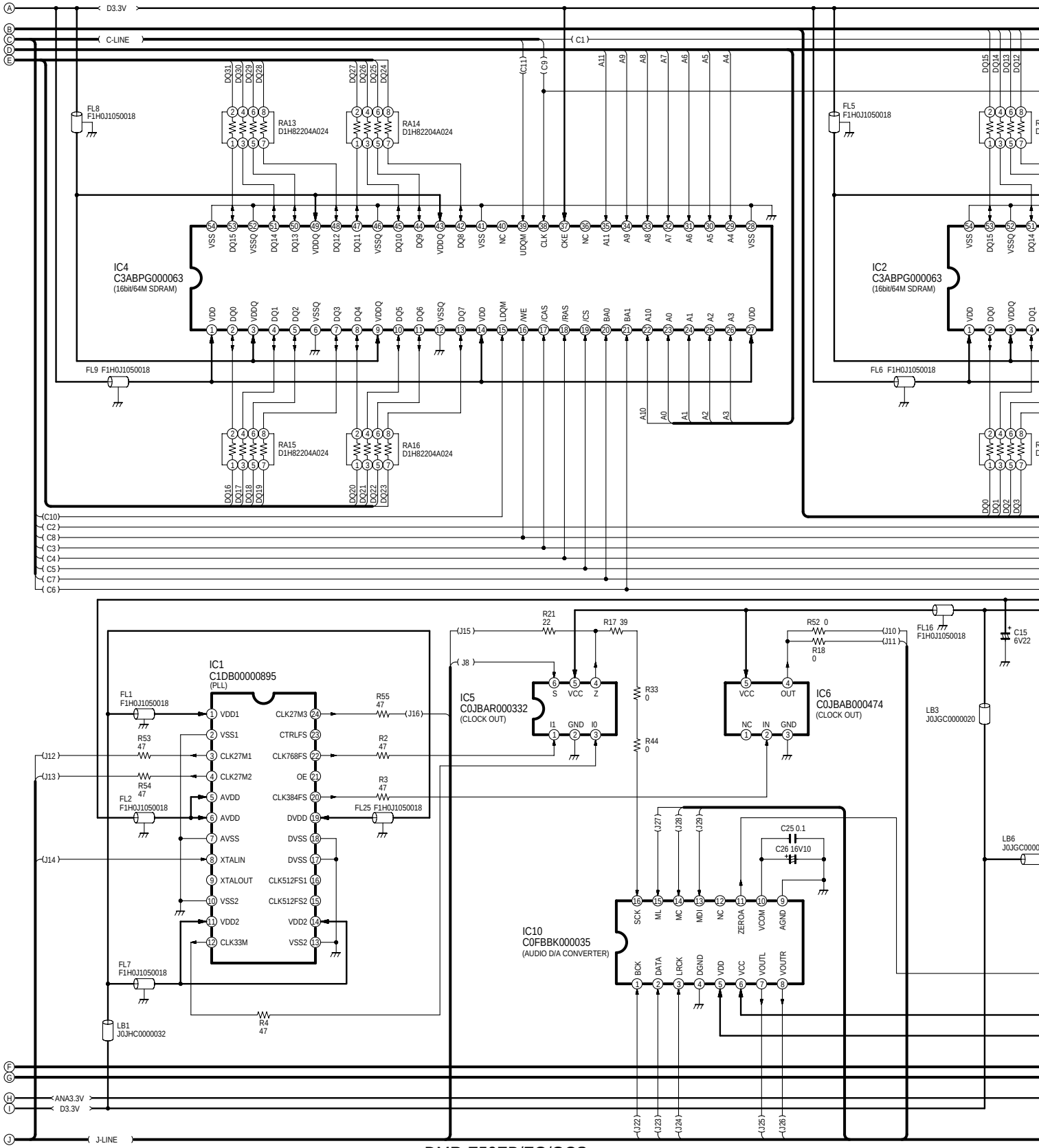
28 | 29 | 30 | 31 | 32

14.11. AV Decoder Schematic Diagram (AD) (Digital P.C.B. 4/6)

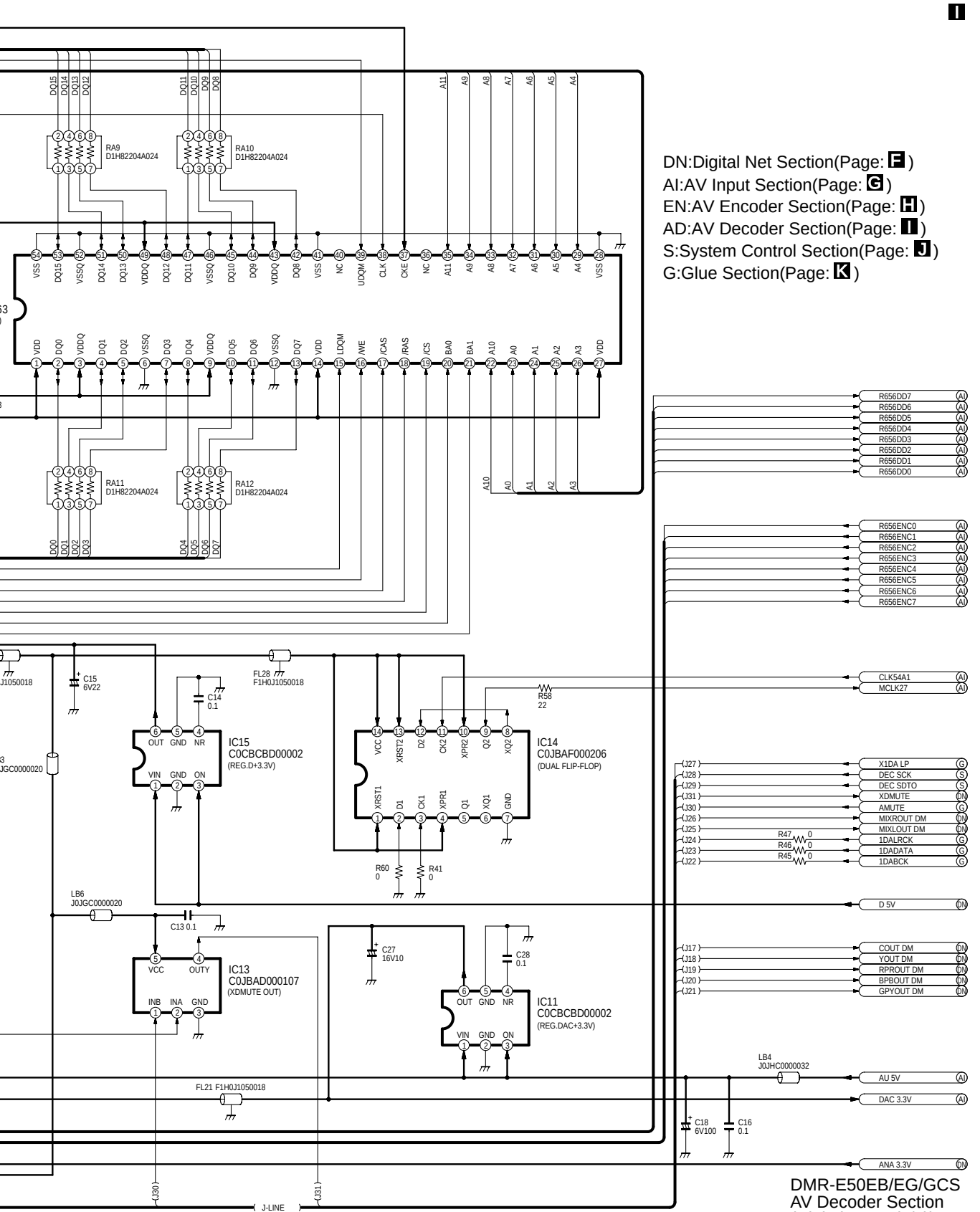




DMR-E50EB/EG/GCS
AV Decoder Section(Digital P.C.B.(4/6)) Schematic Diagram(AD)



DMR-E50EB/EG/GCS
AV Decoder Section(Digital P.C.B.(4/6)) Schematic Diagram(AD)



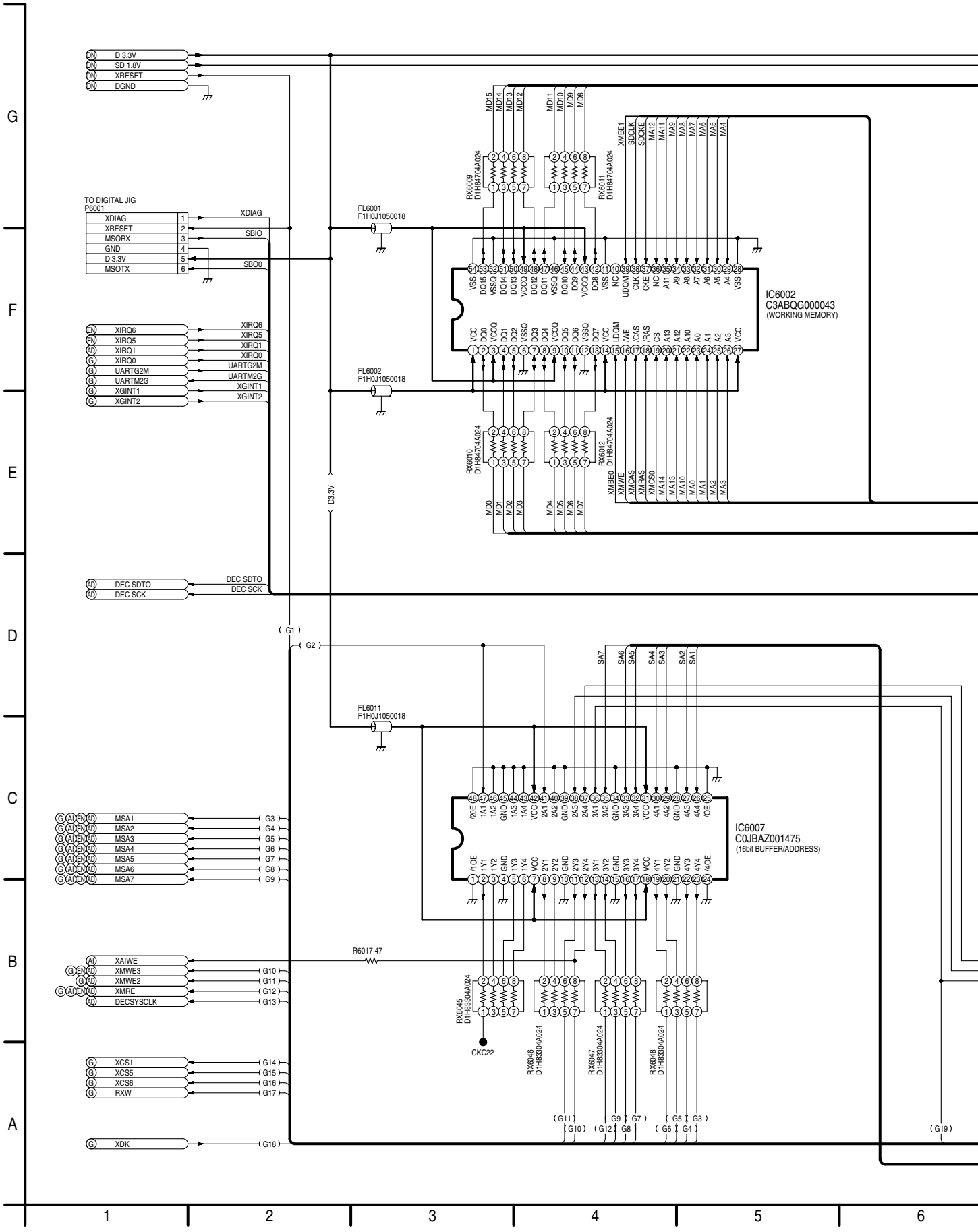
DMR-E50EB/EG/GCS
AV Decoder Section
(Digital P.C.B.(4/6))
Schematic Diagram(AD)

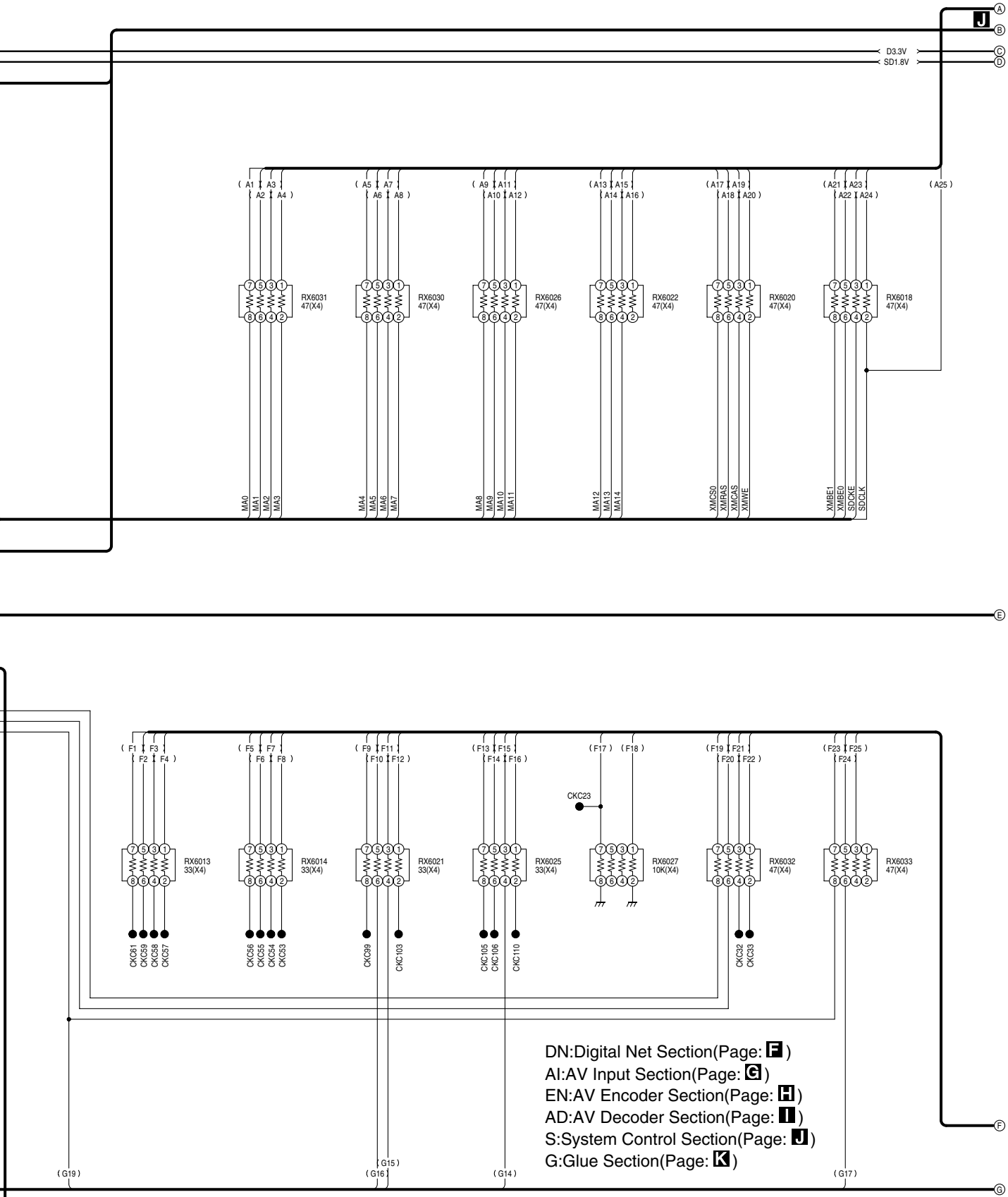
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

REF.NO.50000 SERIES

18 19 20 21 22

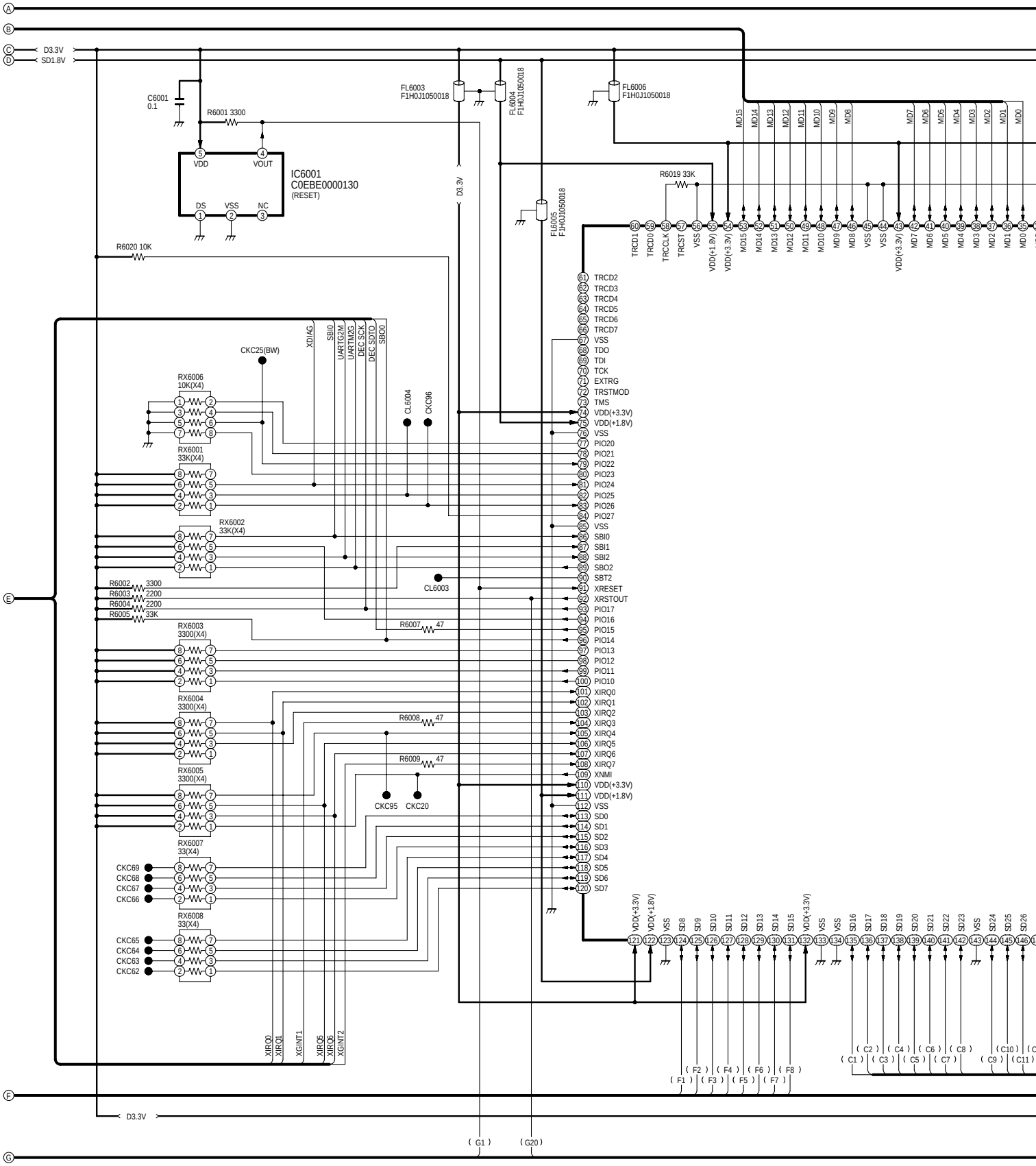
14.12. System Control Schematic Diagram (S) (Digital P.C.B. 5/6)



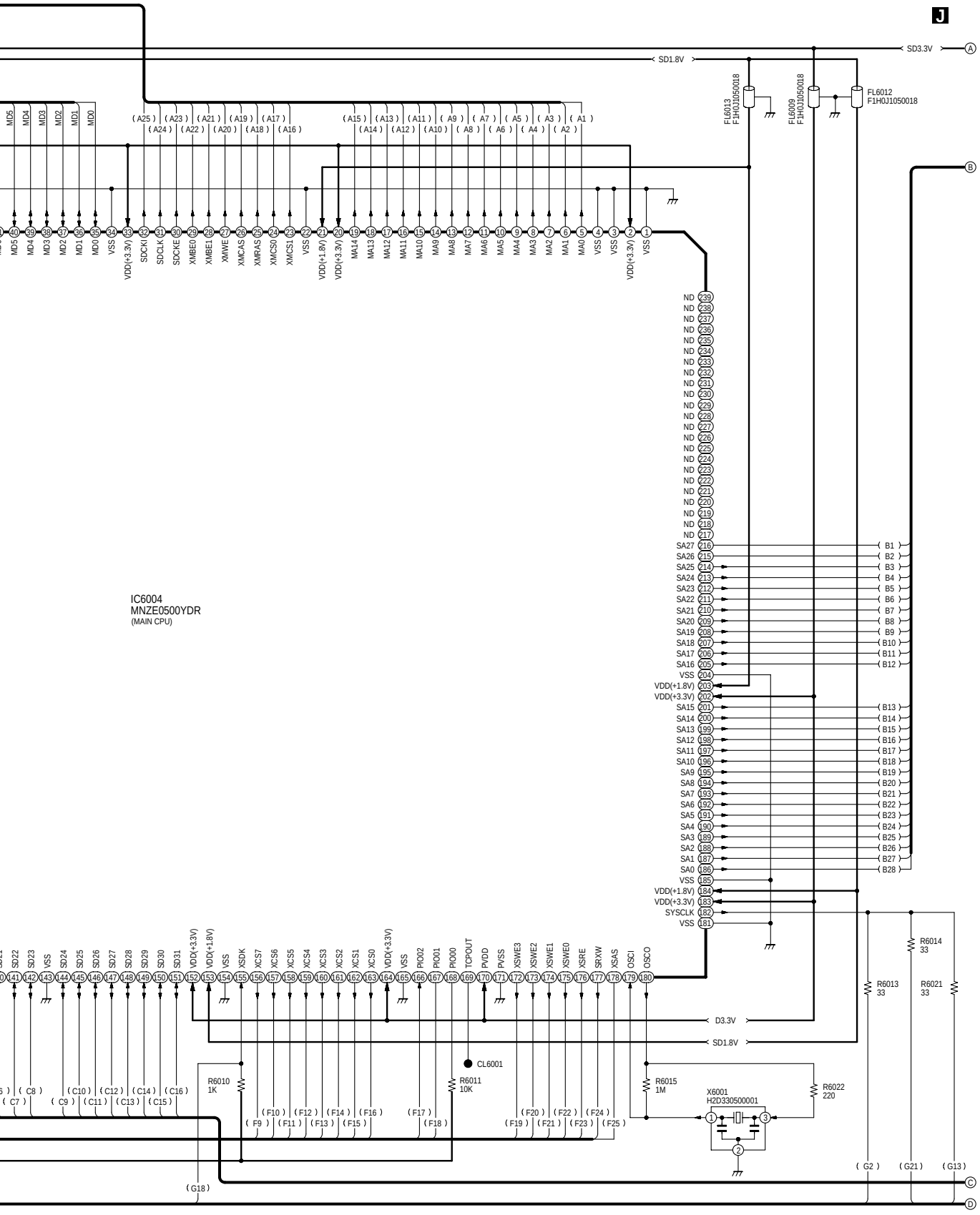


DMR-E50EB/EG/GCS
System Control Section(Digital P.C.B.(5/6)) Schematic Diagram(S)

6 | 7 | 8 | 9 | 10 | 11



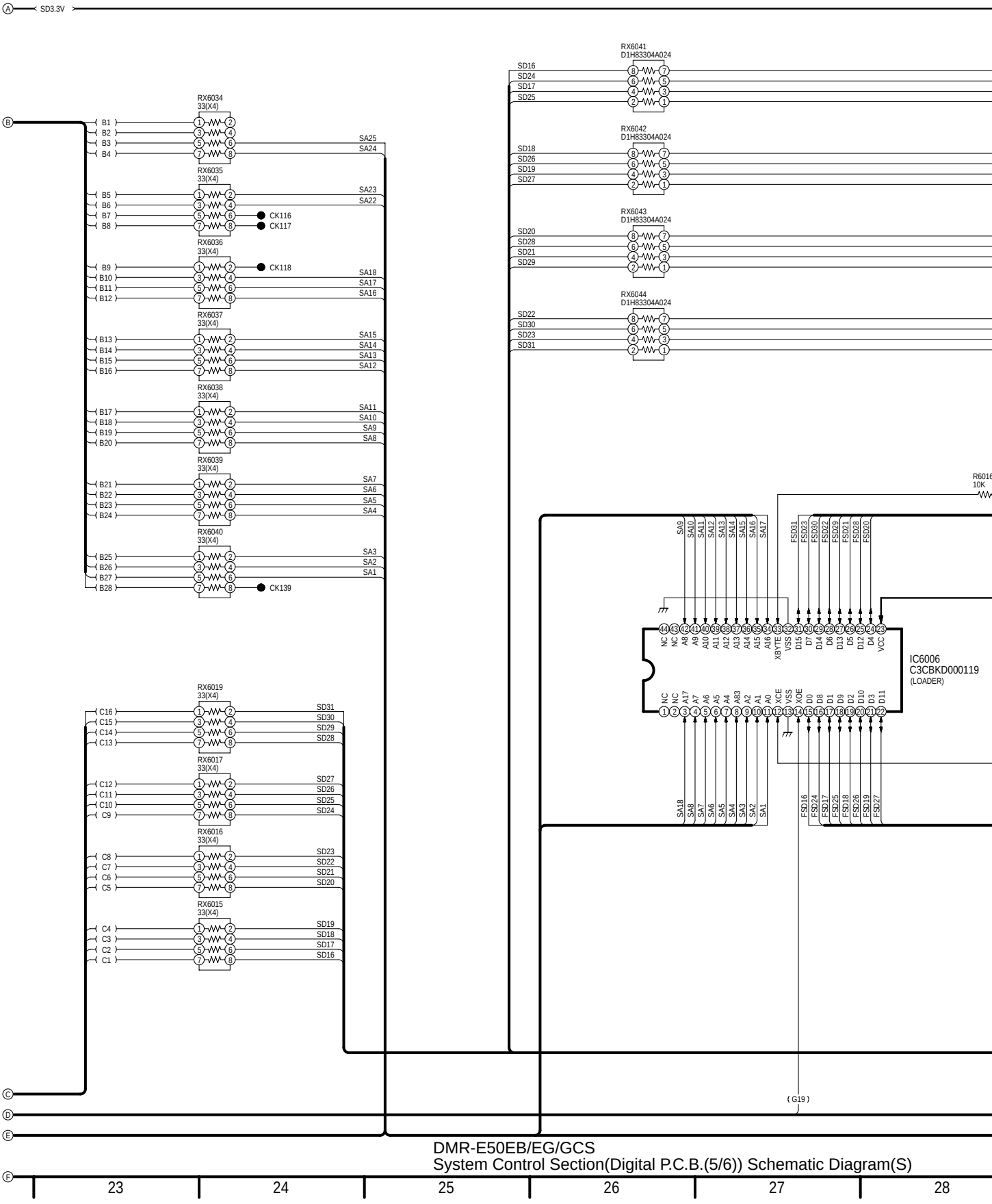
DMR-E50EB/EG/GCS
System Control Section(Digital P.C.B.(5/6)) Schematic Diagram(S)



DMR-E50EB/EG/GCS
System Control Section(Digital P.C.B.(5/6)) Schematic Diagram(S)

(S)

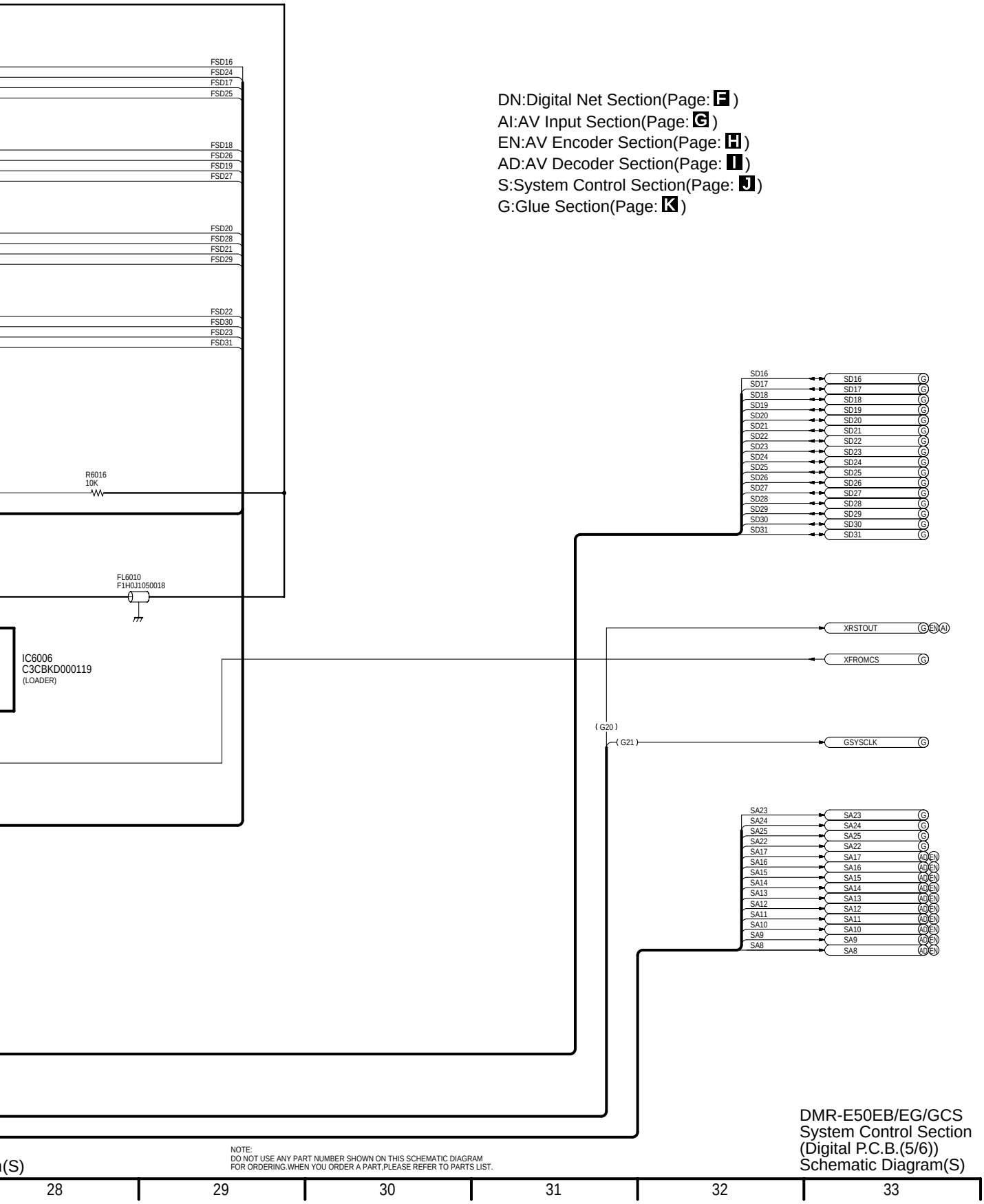
17 | 18 | 19 | 20 | 21 | 22



DMR-E50EB/EG/GCS
System Control Section(Digital P.C.B.(5/6)) Schematic Diagram(S)

J

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)



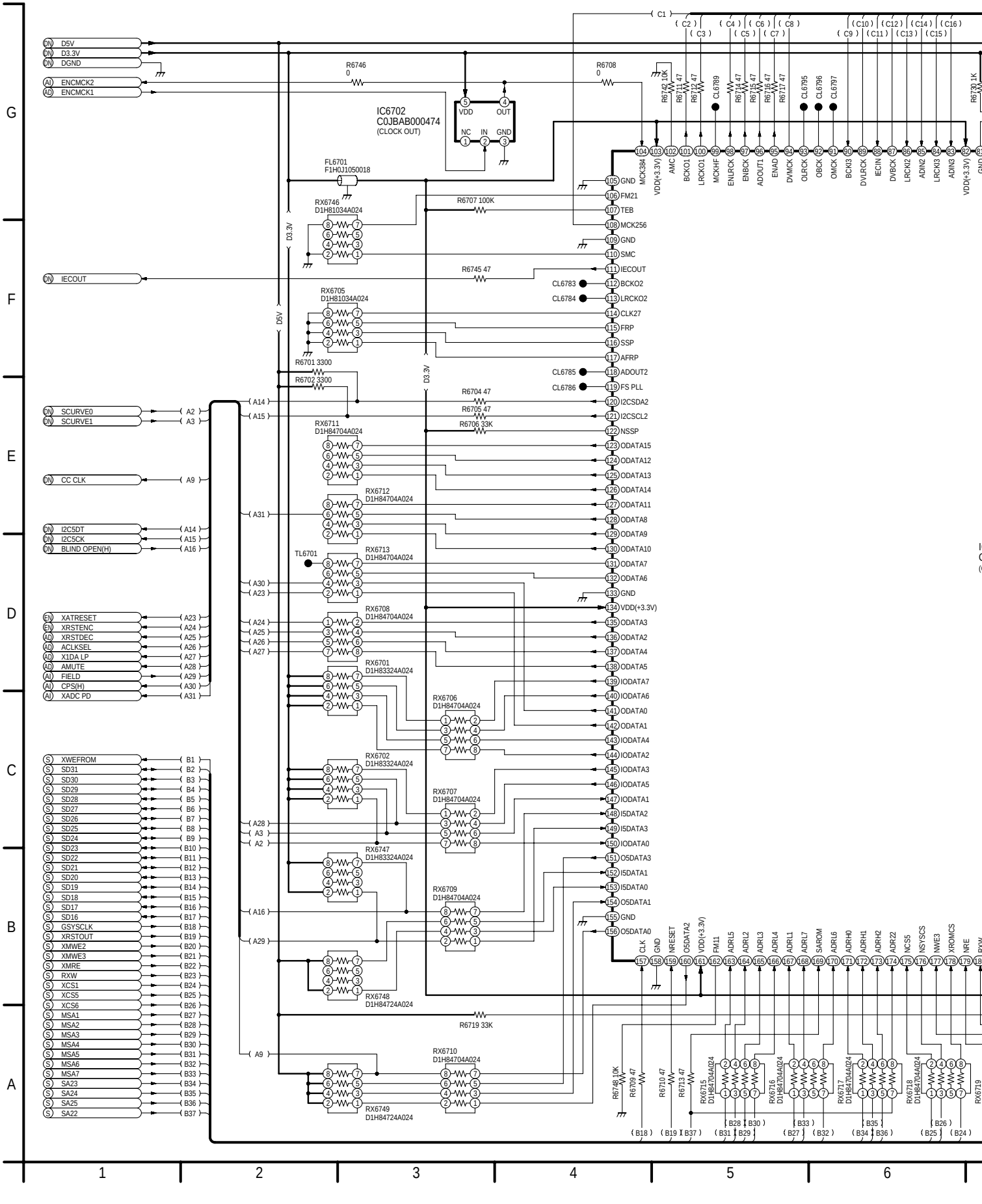
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

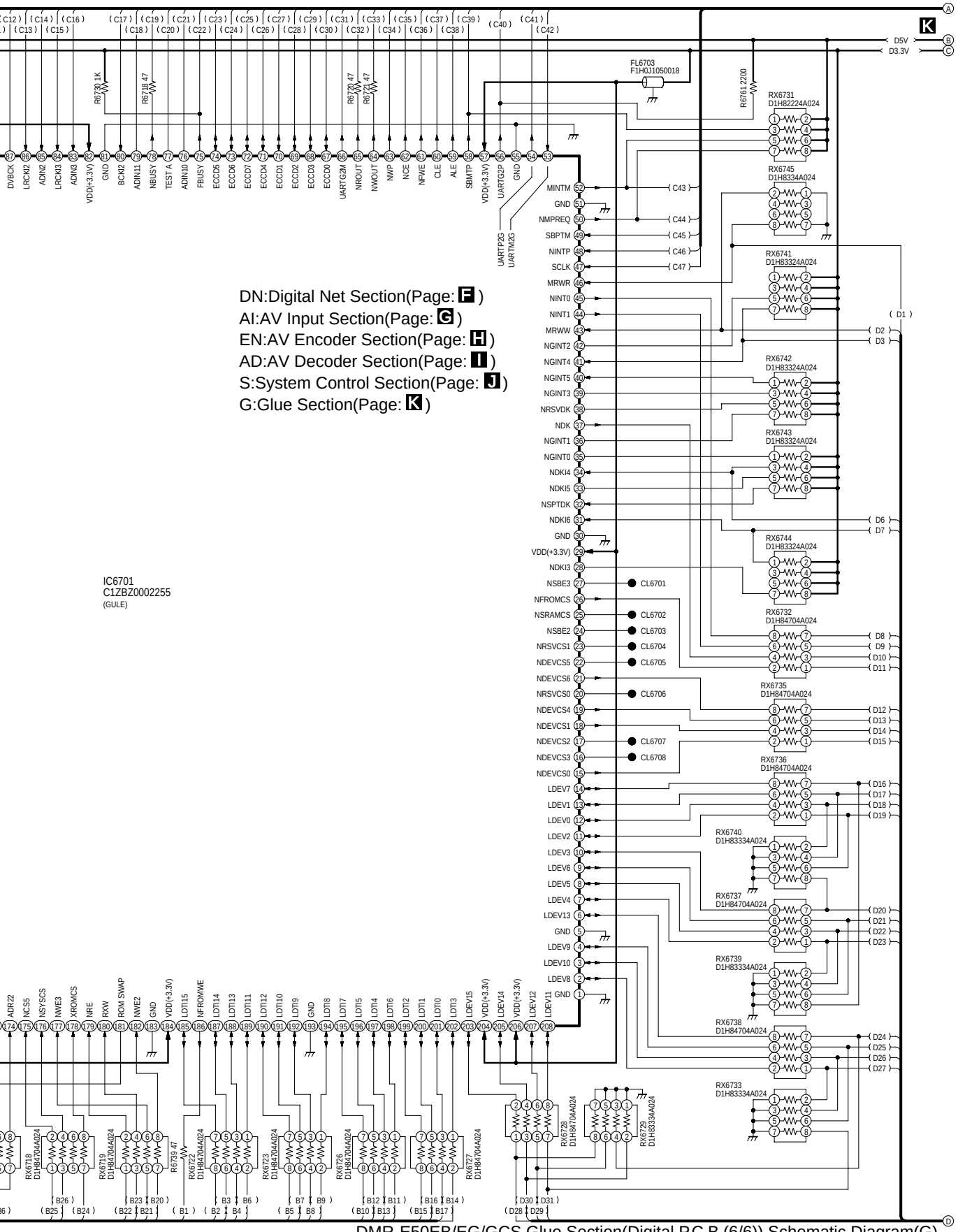
DMR-E50EB/EG/GCS
System Control Section
(Digital P.C.B.(5/6))
Schematic Diagram(S)

(S)

28 | 29 | 30 | 31 | 32 | 33

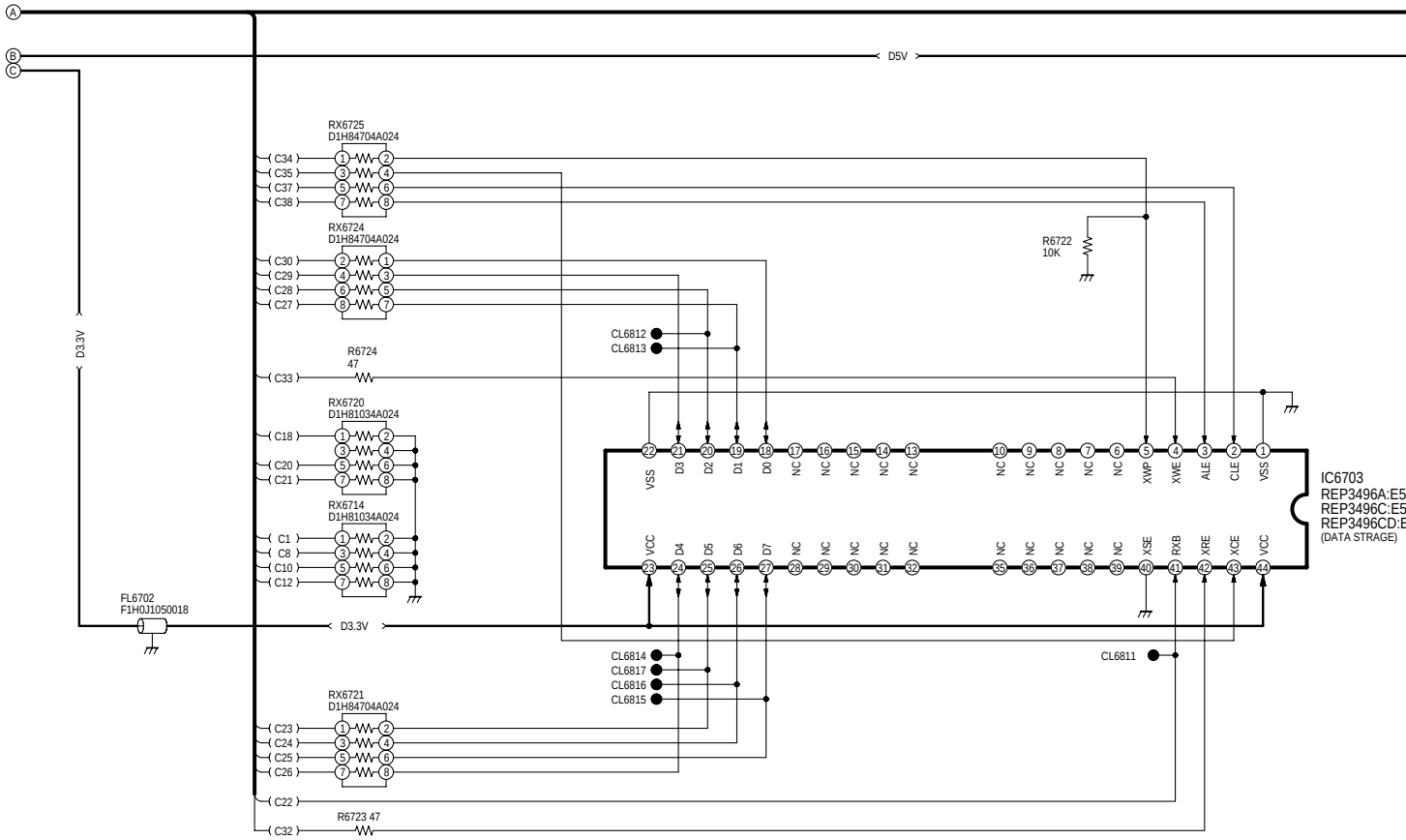
14.13. Glue Schematic Diagram (G) (Digital P.C.B. 6/6)

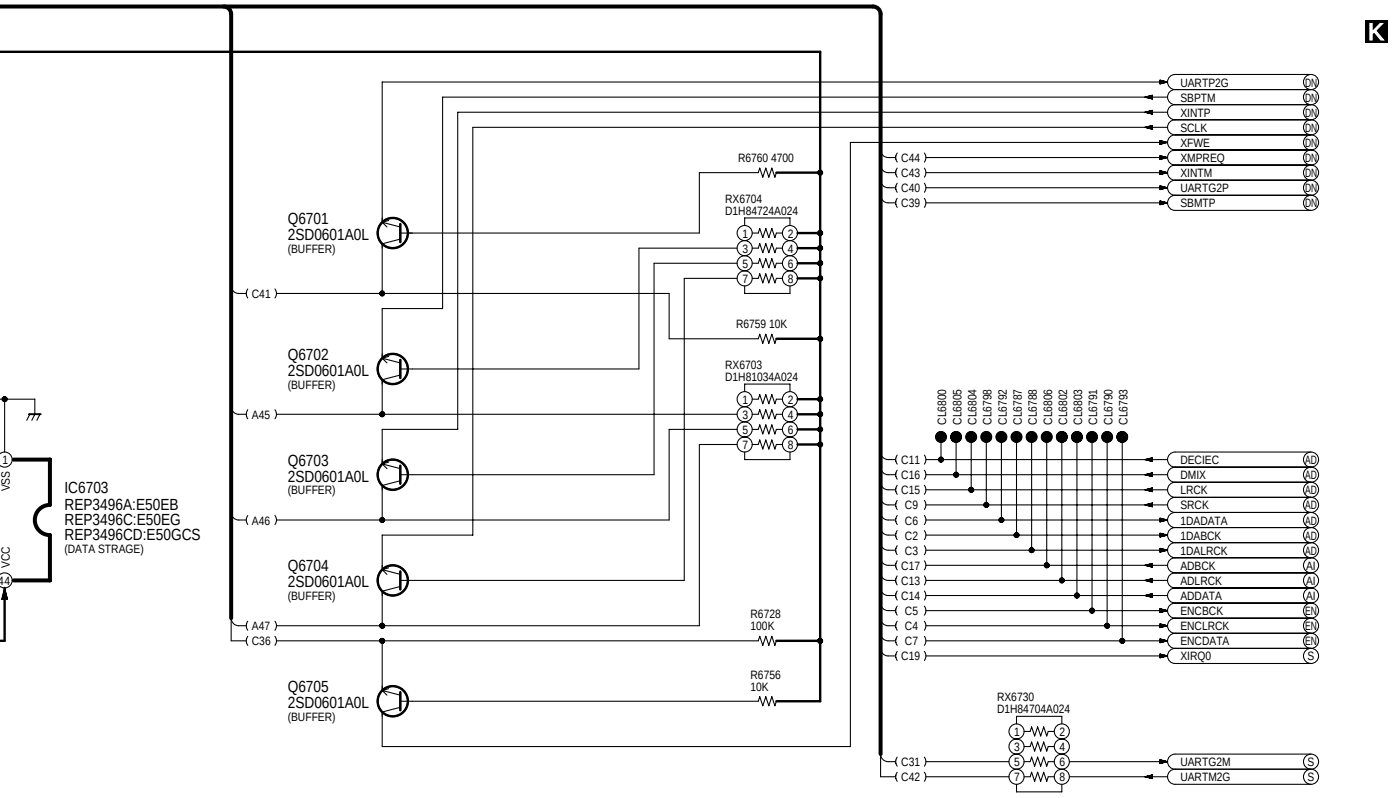




DMR-E50EB/EG/GCS Glue Section(Digital P.C.B.(6/6)) Schematic Diagram(G)

6 7 8 9 10 11


D5V
D3.3V
RX6725
D1H84704A024
C34
C35
C37
C38
RX6724
D1H84704A024
C30
C29
C28
C27
R6724
47
C33
RX6720
D1H81034A024
C18
C20
C21
RX6714
D1H81034A024
C1
C8
C10
C12
FL6702
F1H0J1050018
D3.3V
RX6721
D1H84704A024
C23
C24
C25
C26
C22
R6723 47
C32
R6722
10K
CL6812
CL6813
CL6814
CL6817
CL6816
CL6815
CL6811
VSS
D3
D2
D1
D0
NC
XWP
XWE
ALE
CLE
VCC
D4
D5
D6
D7
XSE
RXB
XRE
XCE
IC6703
REP3496A:E5
REP3496C:E5
REP3496CD:E
(DATA STRAGE)



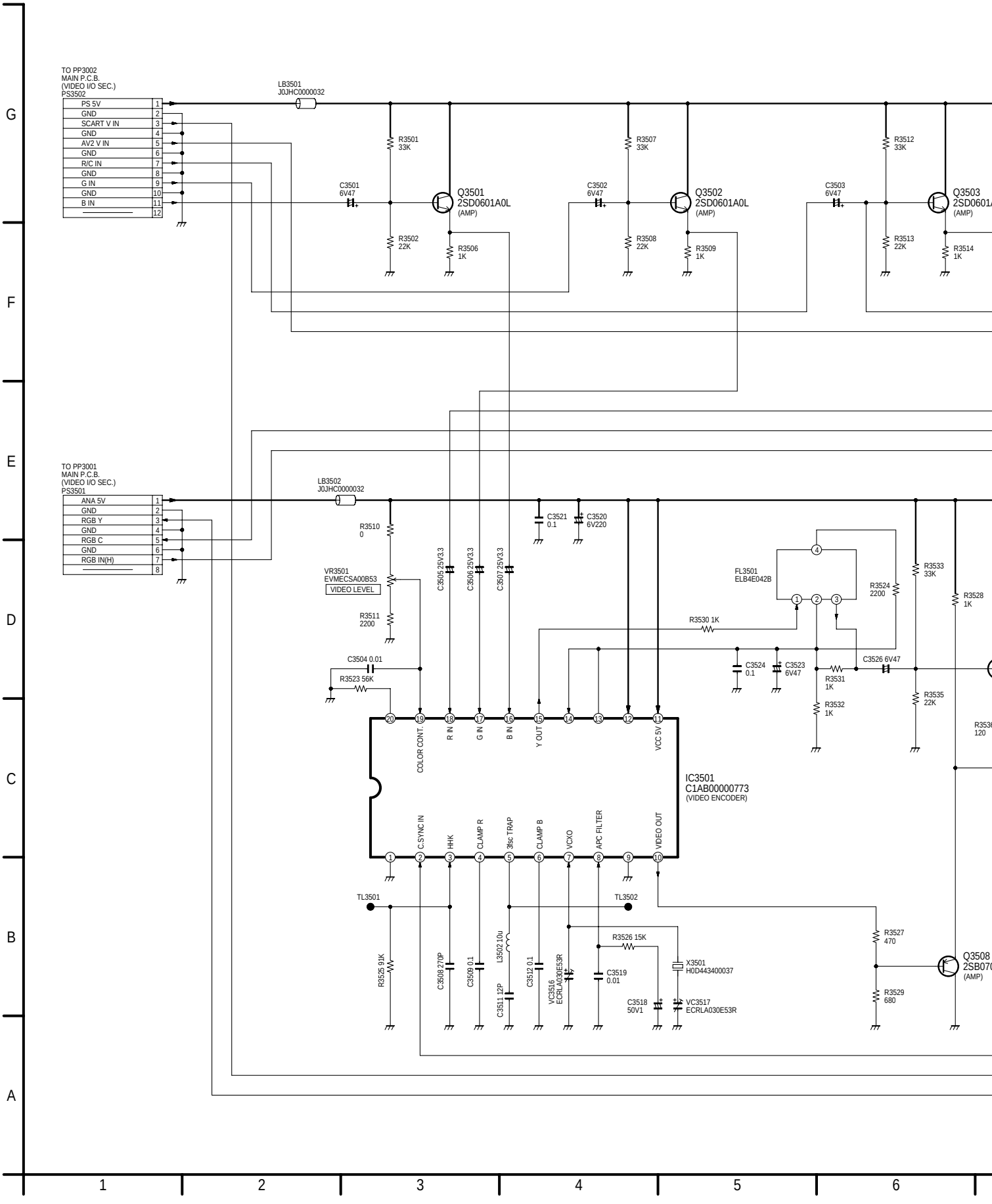
DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)

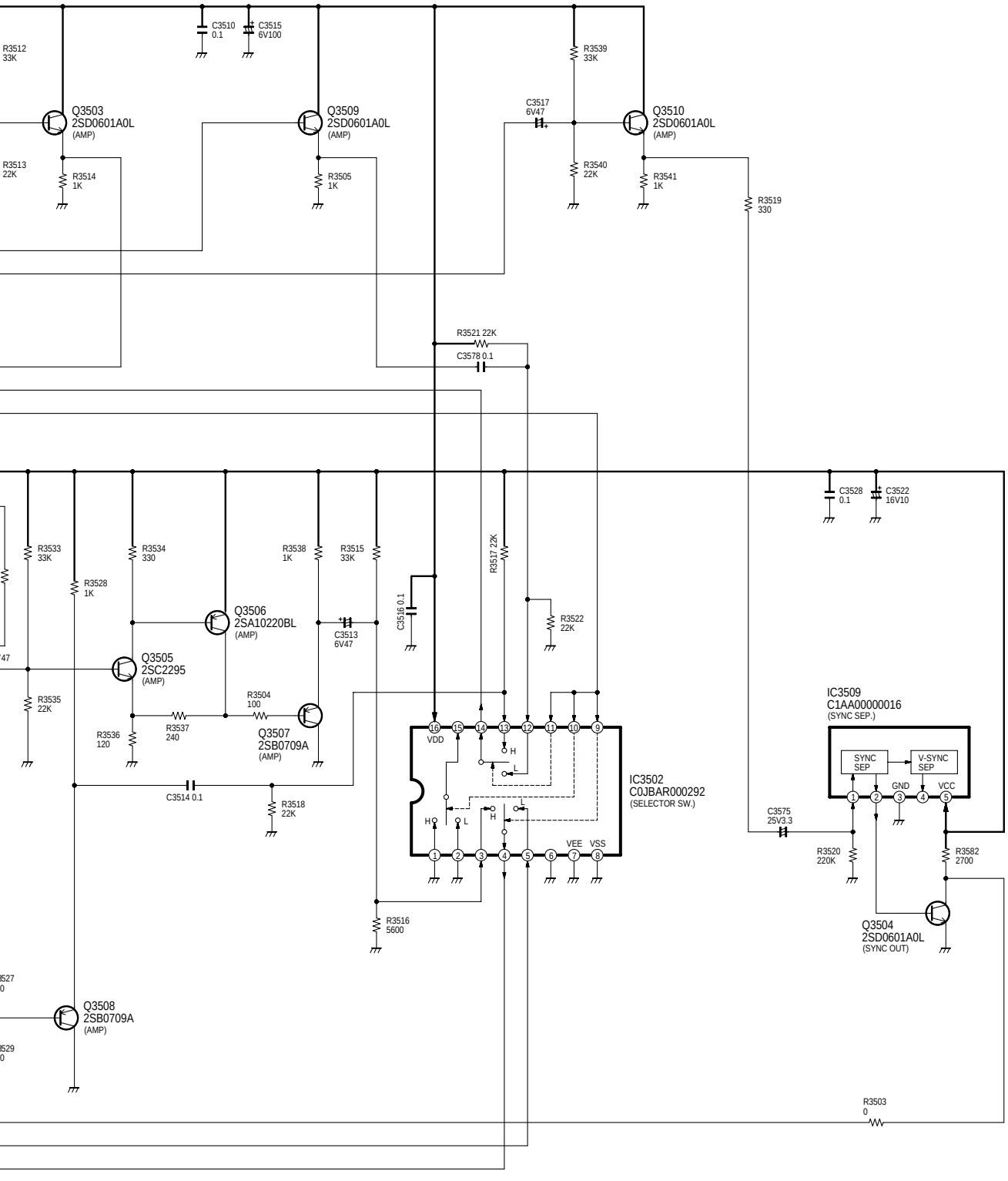
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E50EB/EG/GCS
Glue Section(Digital P.C.B.(6/6))
Schematic Diagram(G)

17 | 18 | 19 | 20 | 21 | 22

14.14. RGB Schematic Diagram



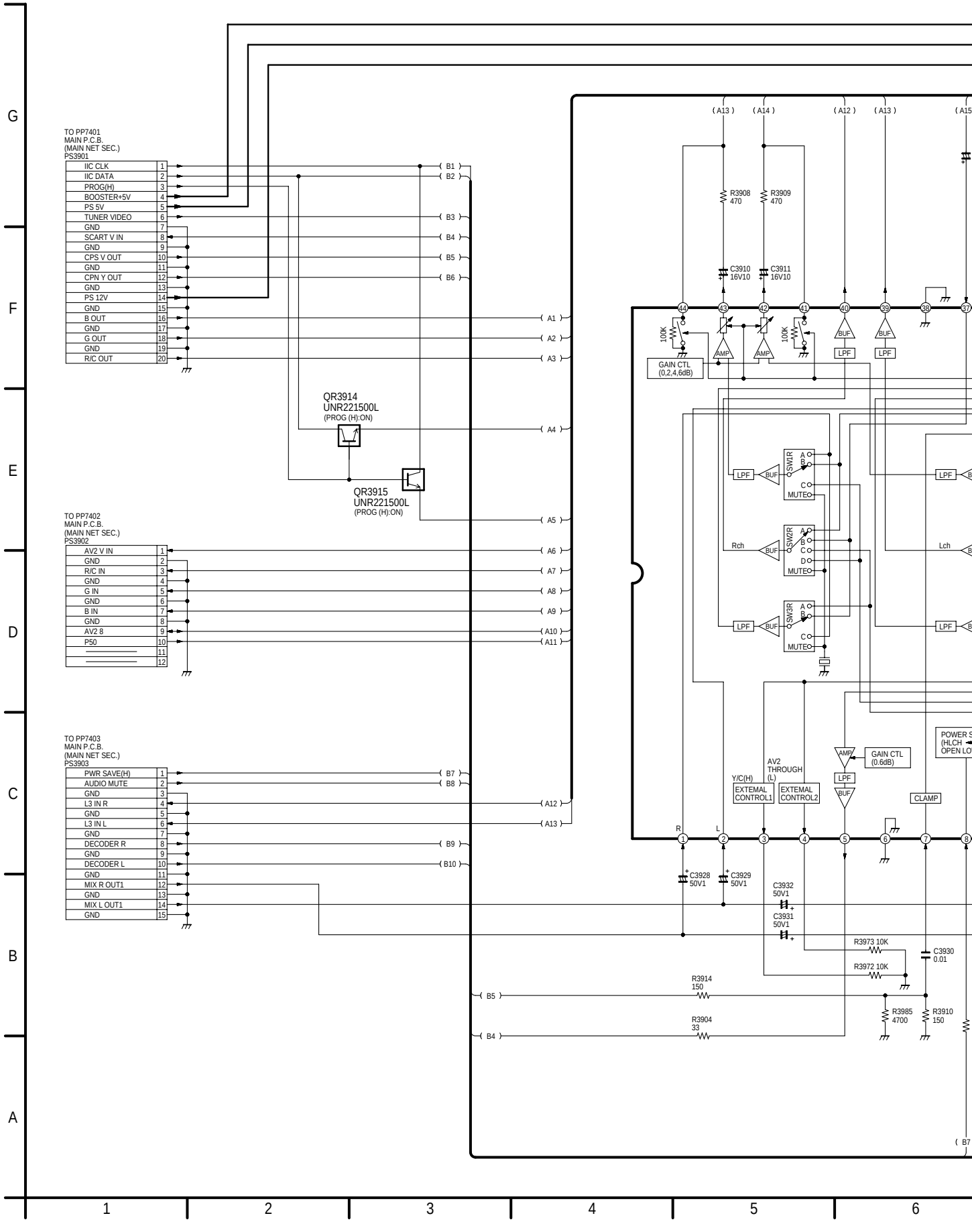


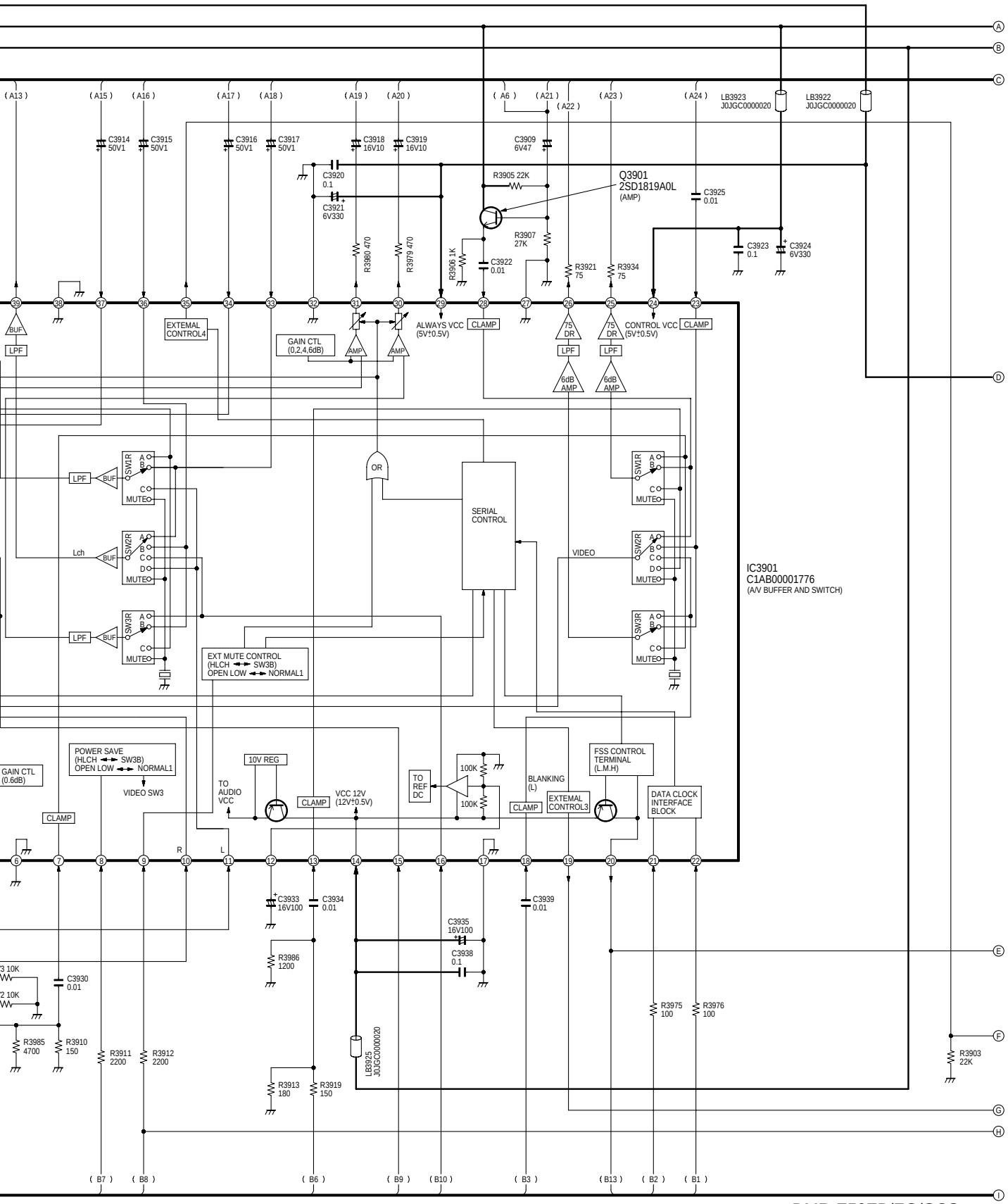
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E50EB/EG/GCS
RGB Schematic Diagram

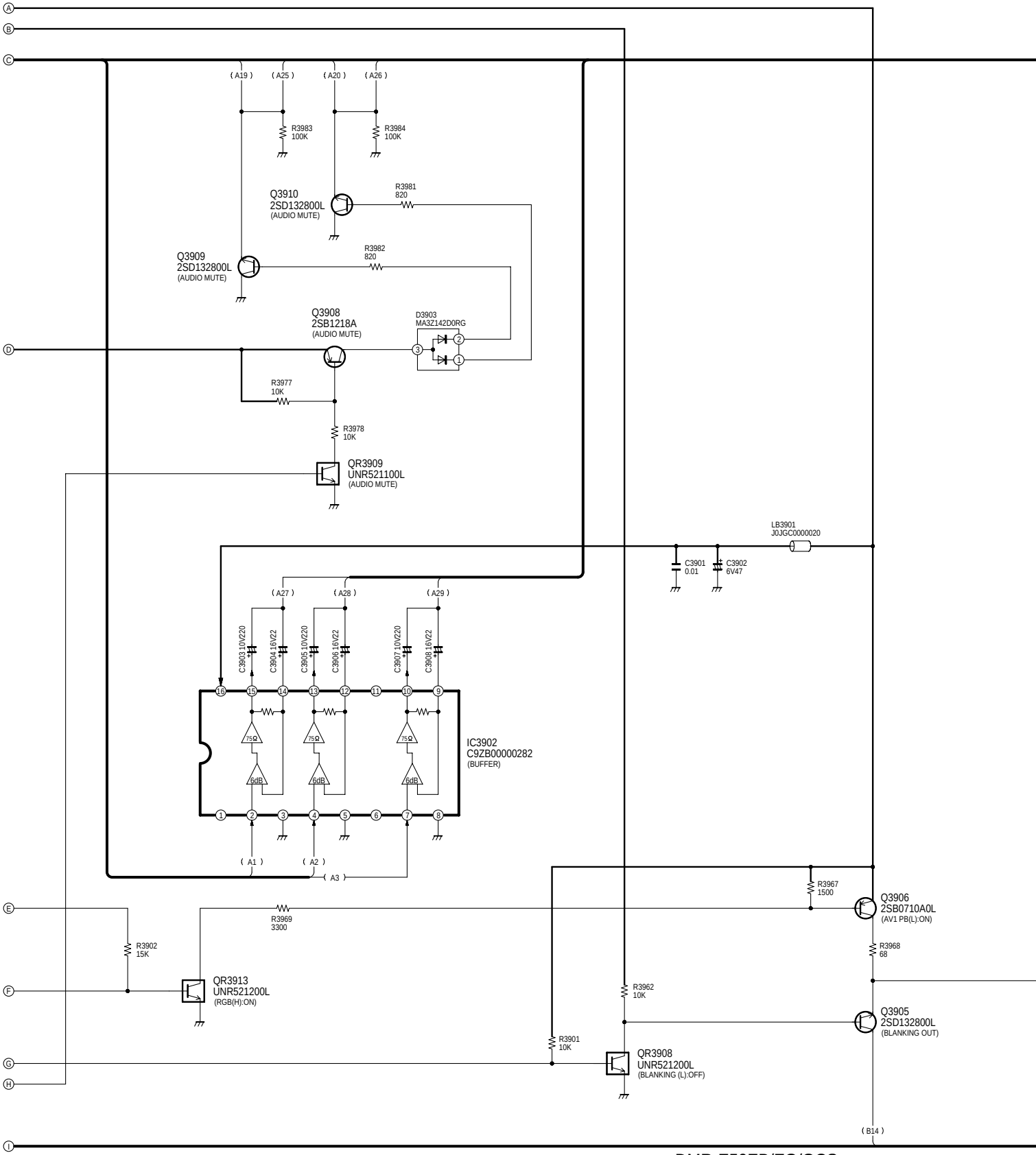
6 | 7 | 8 | 9 | 10 | 11

14.15. Scart Schematic Diagram



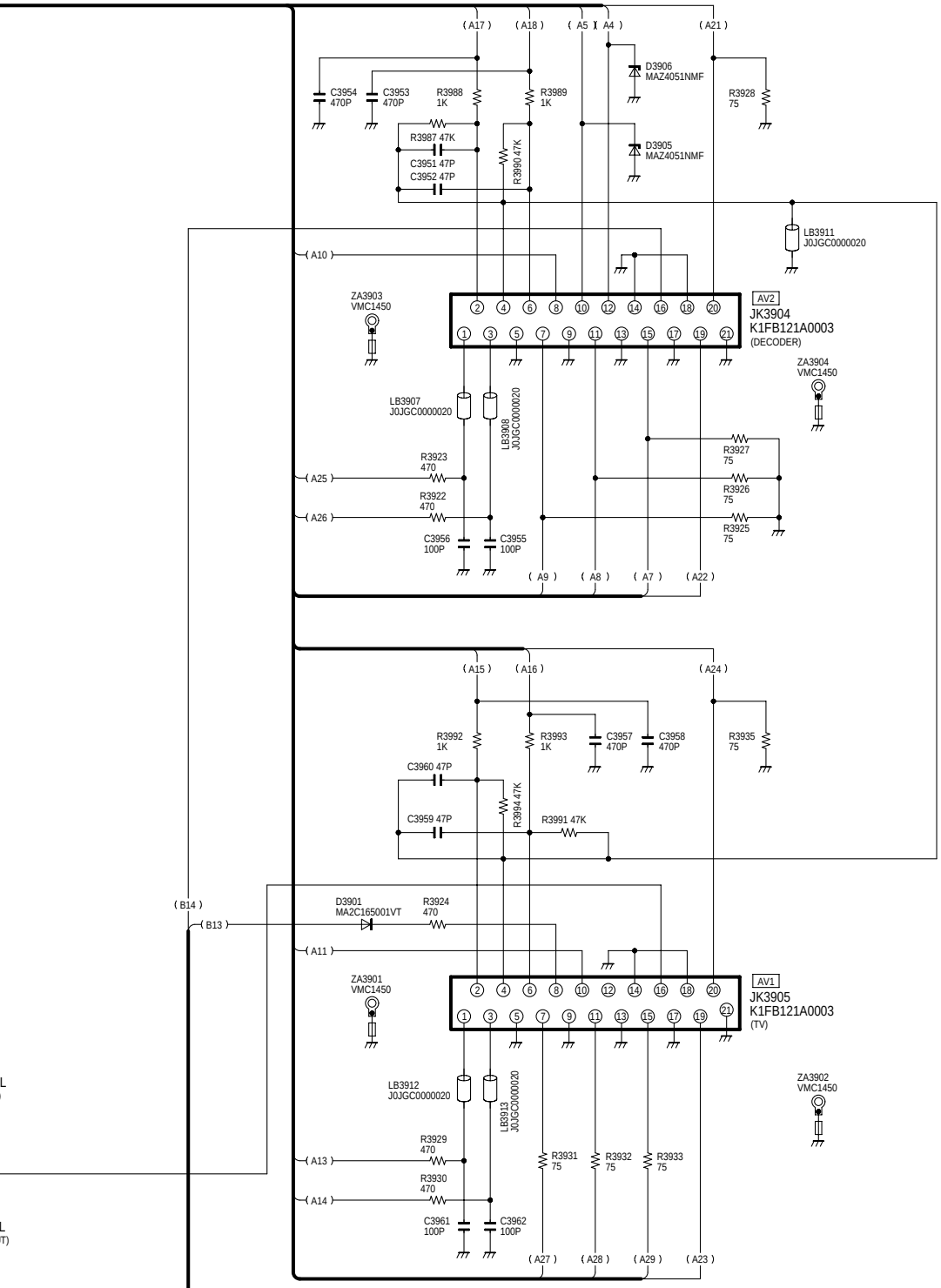


DMR-E50EB/EG/GCS
Scart Schematic Diagram



DMR-E50EB/EG/GCS
Scart Schematic Diagram

NOTE:DO NO
IN THE PA



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

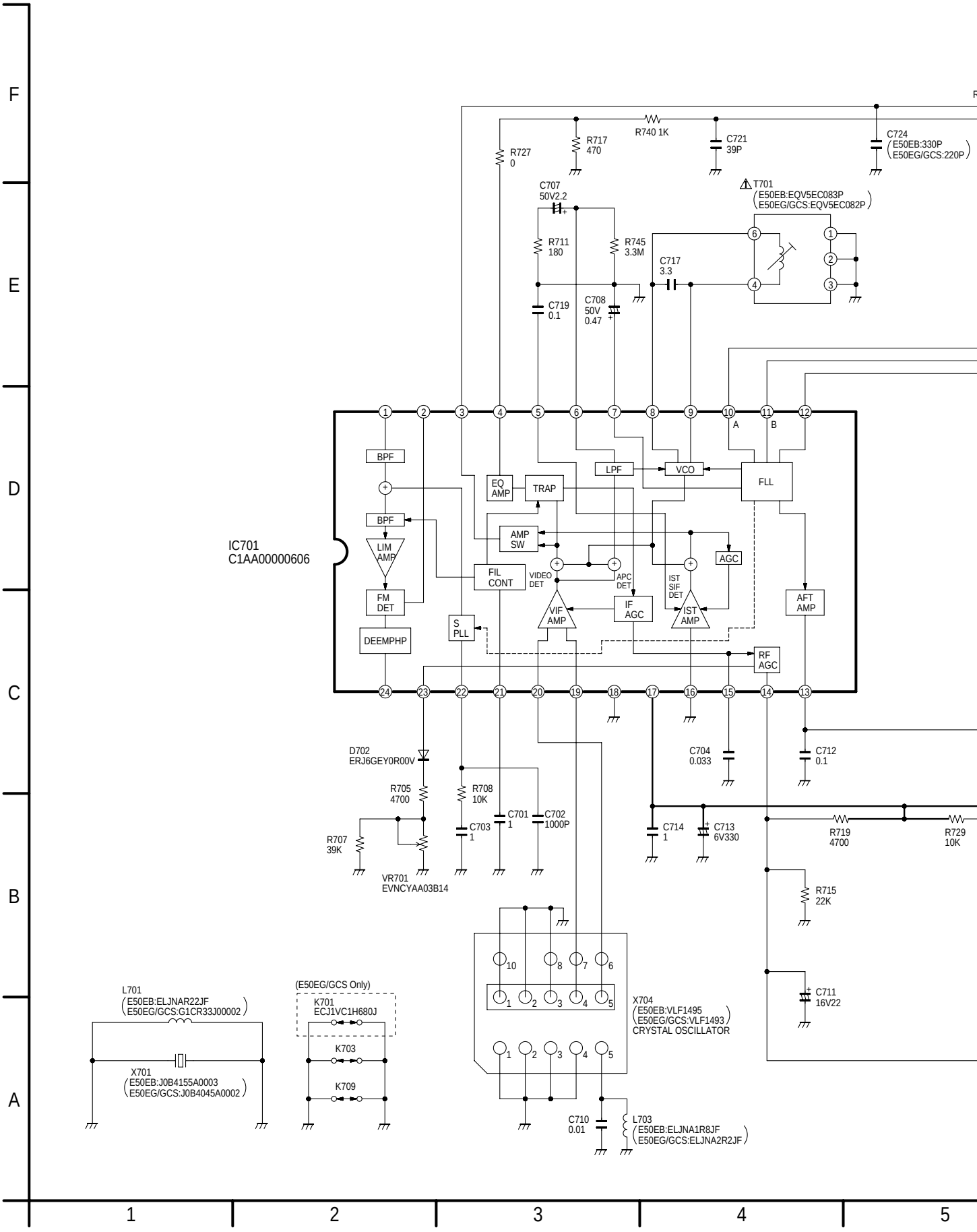
1	AUDIO OUT CH2(R)
2	AUDIO IN CH2(R)
3	AUDIO OUT CH1(L)
4	GND(A)
5	GND
6	AUDIO IN CH1(L)
7	BLUE
8	PB +12V
9	GND
10	-/CONTROL
11	GREEN
12	-/DATA
13	GND
14	GND
15	RED/C OUT
16	BLANKING
17	GND
18	GND
19	VIDEO OUT/Y OUT
20	VIDEO IN
21	GND

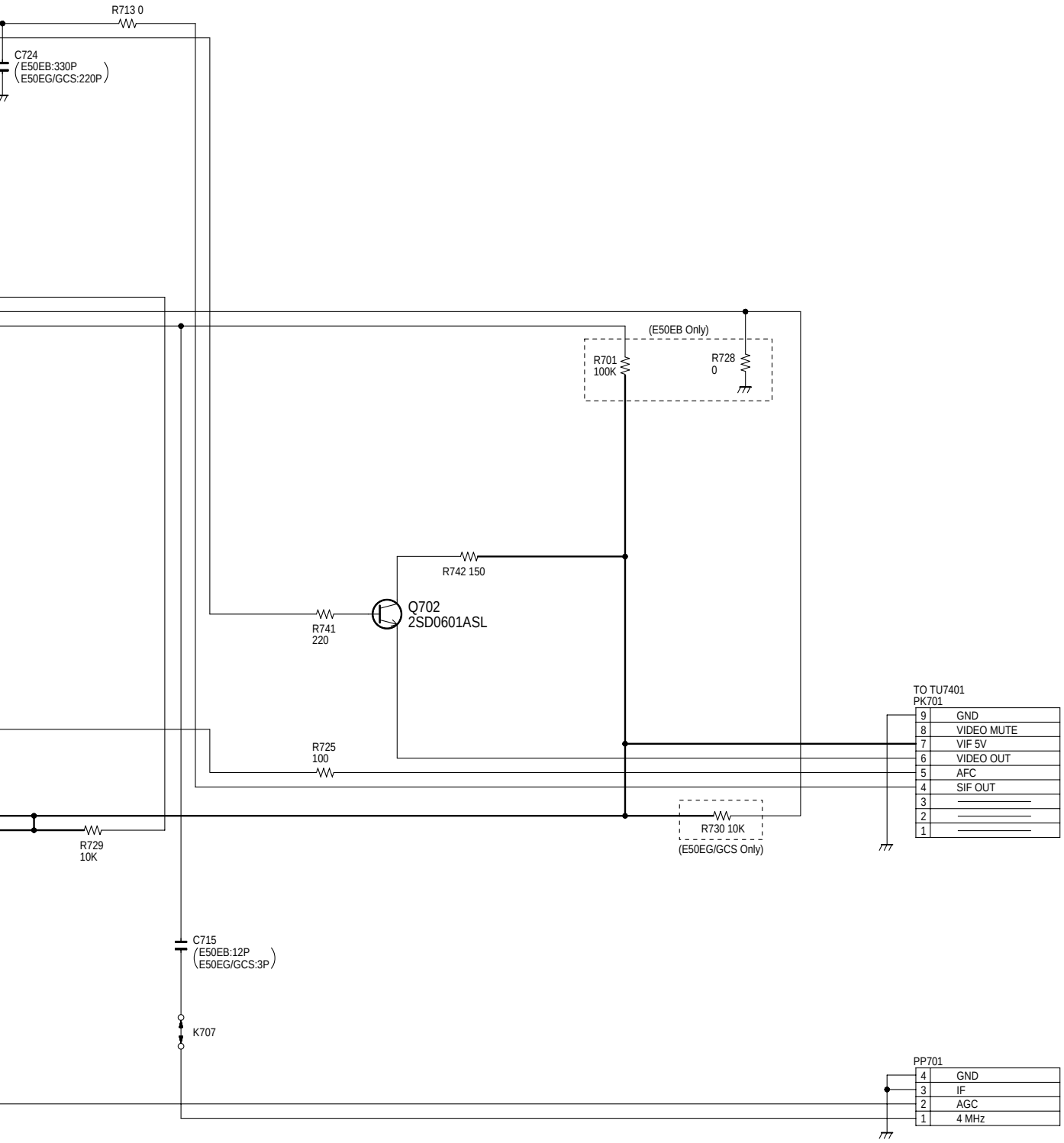
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E50EB/EG/GCS
Scart Schematic Diagram

18 | 19 | 20 | 21 | 22

14.16. VIF Decoder Schematic Diagram





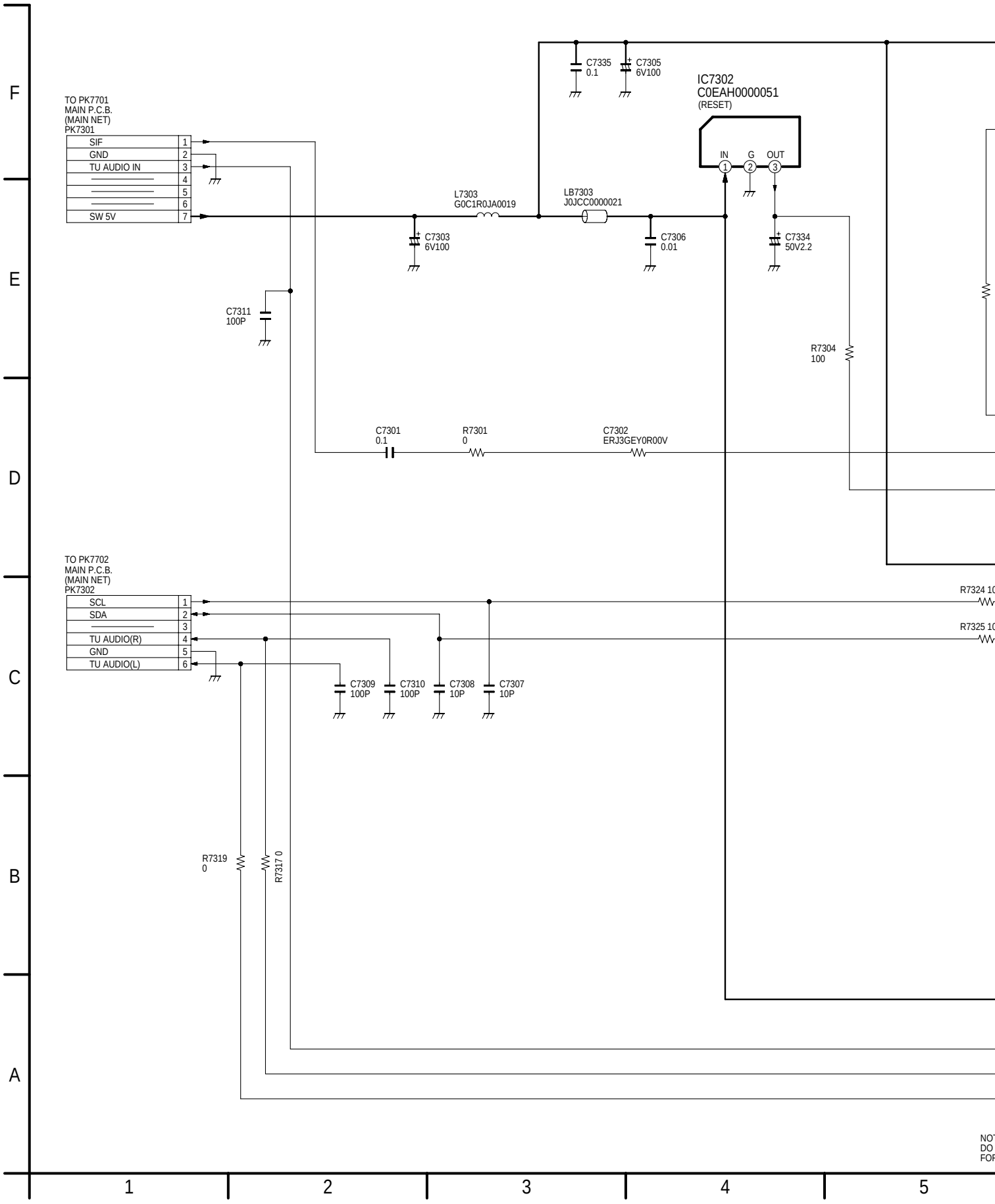
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

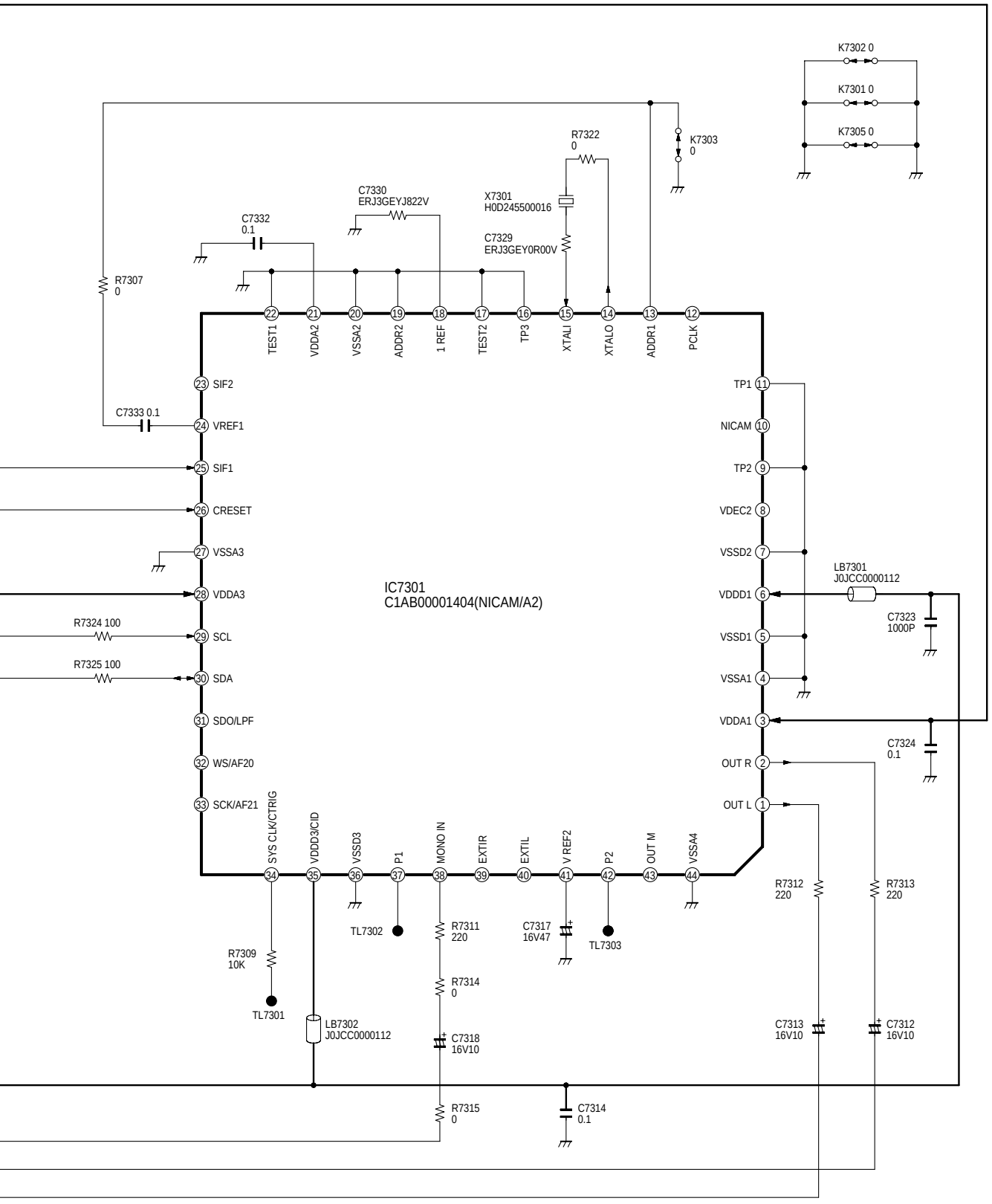
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E50EB/EG/GCS
VIF Decoder Schematic Diagram

5 | 6 | 7 | 8

14.17. Nicam/Decoder Schematic Diagram



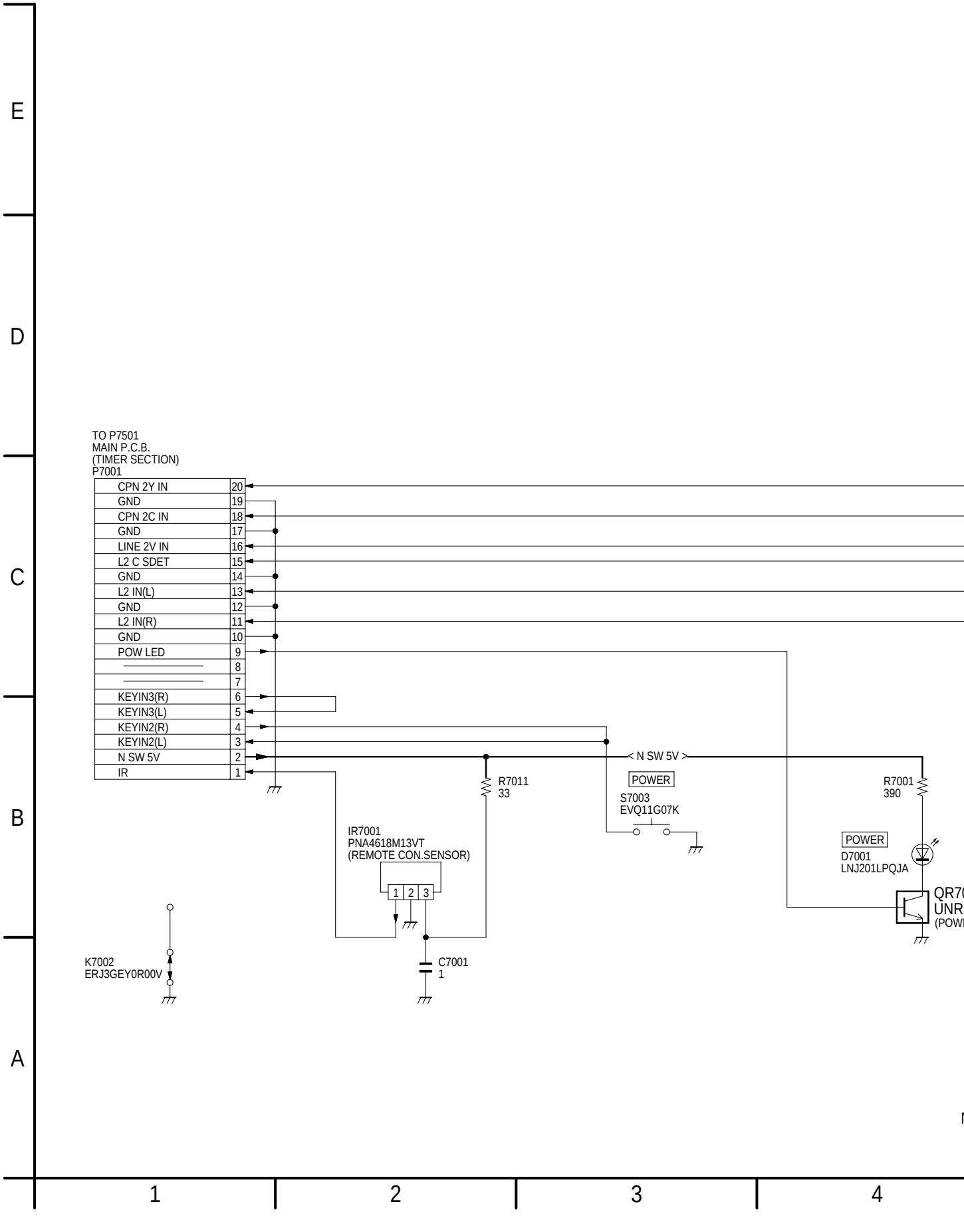


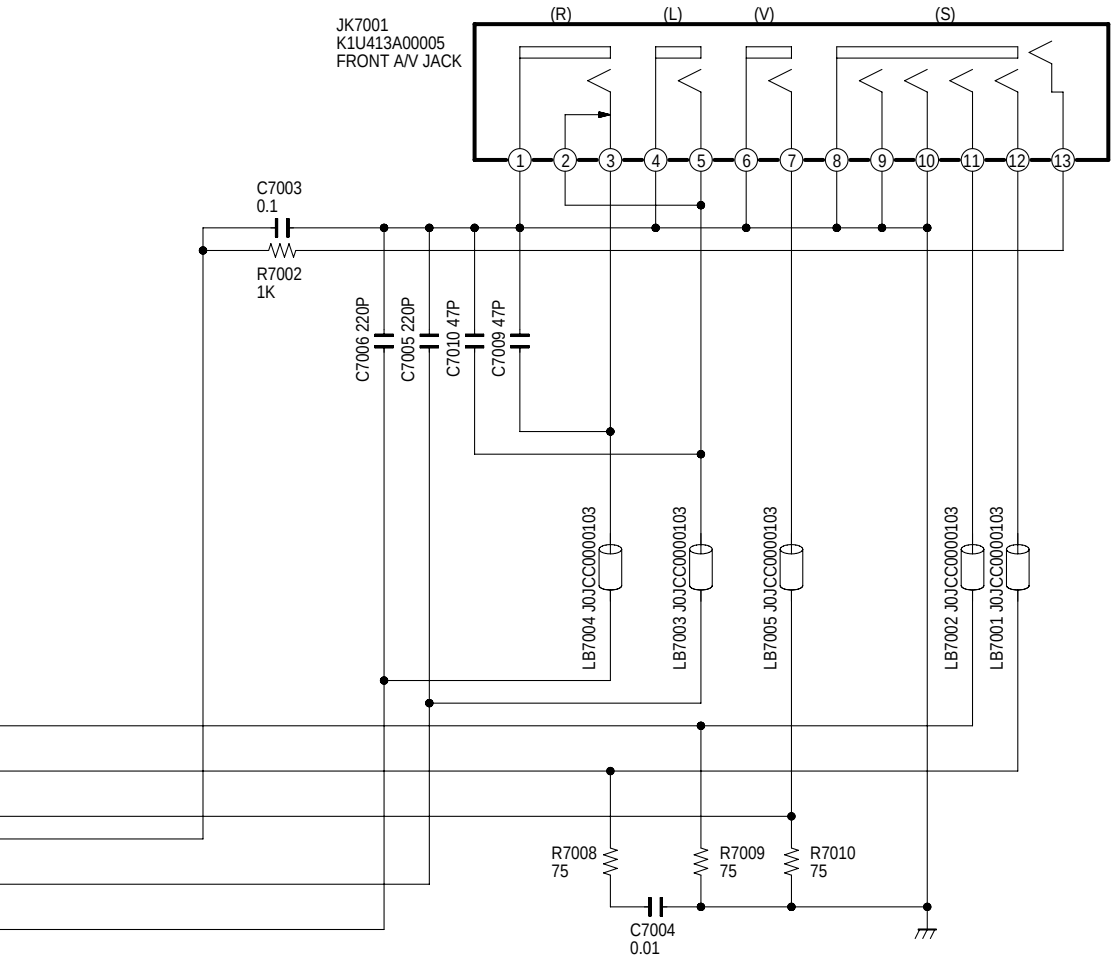
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

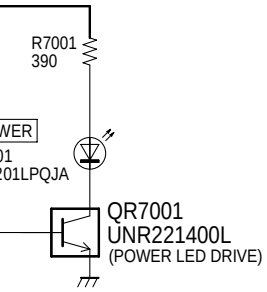
DMR-E50EB/EG/GCS
Nicam/Decoder Schematic Diagram

5 | 6 | 7 | 8

14.18. Front (L) 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 DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E50EB/EG/GCS
Front (L) Schematic Diagram

14.6. Audio Schematic Diagram (A) (Main P.C.B. 4/5)

14.7. Timer Schematic Diagram (T) (Main P.C.B. 5/5)

14.8. Digital Net Schematic Diagram (DN) (Digital P.C.B. 1/6)

14.9. AV Input Schematic Diagram (AI) (Digital P.C.B. 2/6)

14.10. AV Encoder Schematic Diagram (EN) (Digital P.C.B. 3/6)

14.11. AV Decoder Schematic Diagram (AD) (Digital P.C.B. 4/6)

14.12. System Control Schematic Diagram (S) (Digital P.C.B. 5/6)

14.13. Glue Schematic Diagram (G) (Digital P.C.B. 6/6)

14.14. RGB Schematic Diagram

14.15. Scart Schematic Diagram

14.16. VIF Decoder Schematic Diagram

14.17. Nicam/Decoder Schematic Diagram

14.18. Front (L) Schematic Diagram

14.19. Front (R) Schematic Diagram

15. Print Circuit Board

15.1. Main Power Supply P.C.B.

15.2. Main P.C.B.

15.2.1. Main P.C.B. (Section 1/4)

15.2.2. Main P.C.B. (Section 2/4)

15.2.3. Main P.C.B. (Section 3/4)

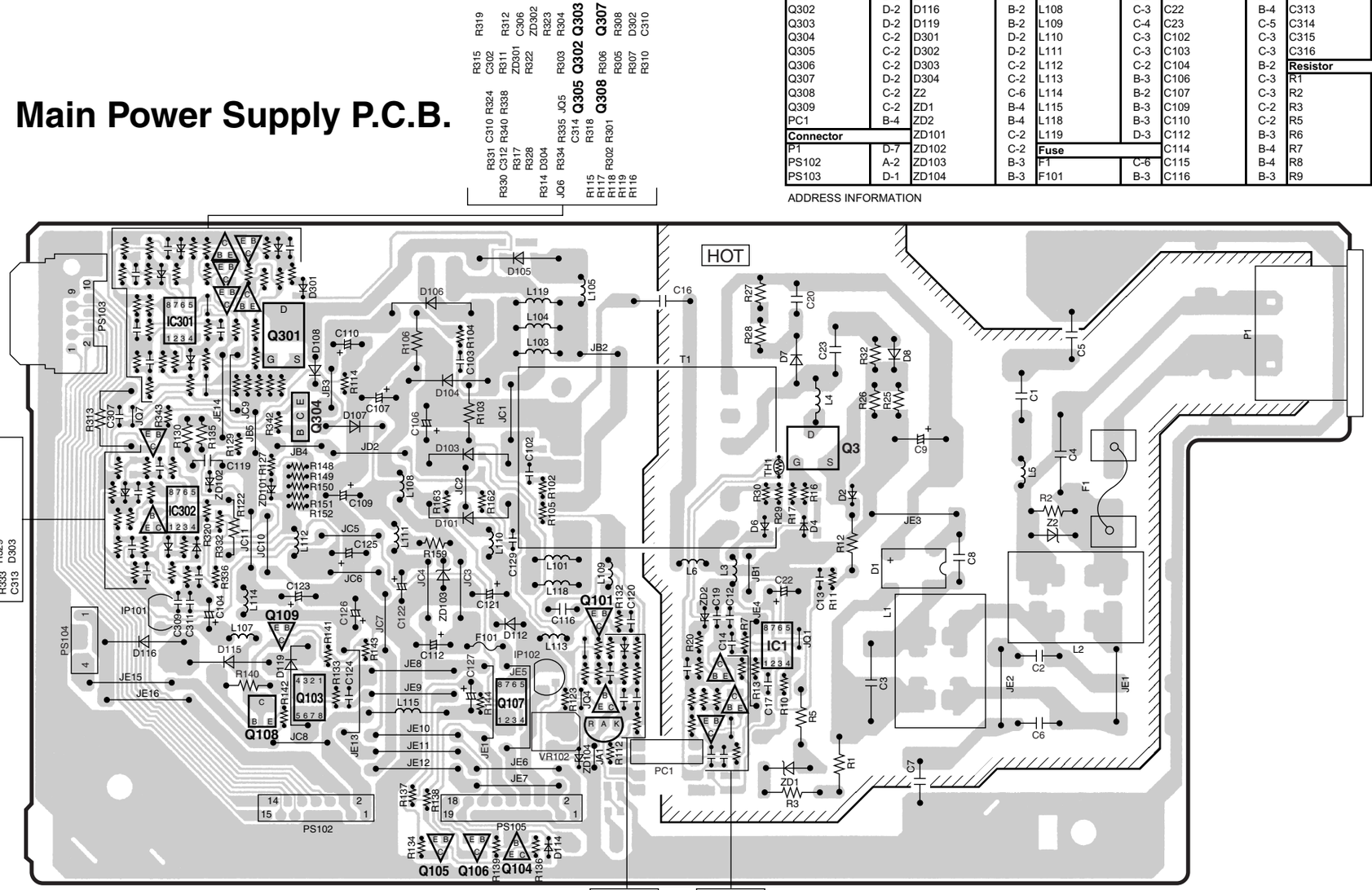
15.2.4. Main P.C.B. (Section 4/4)

Main Power Supply P.C.B.

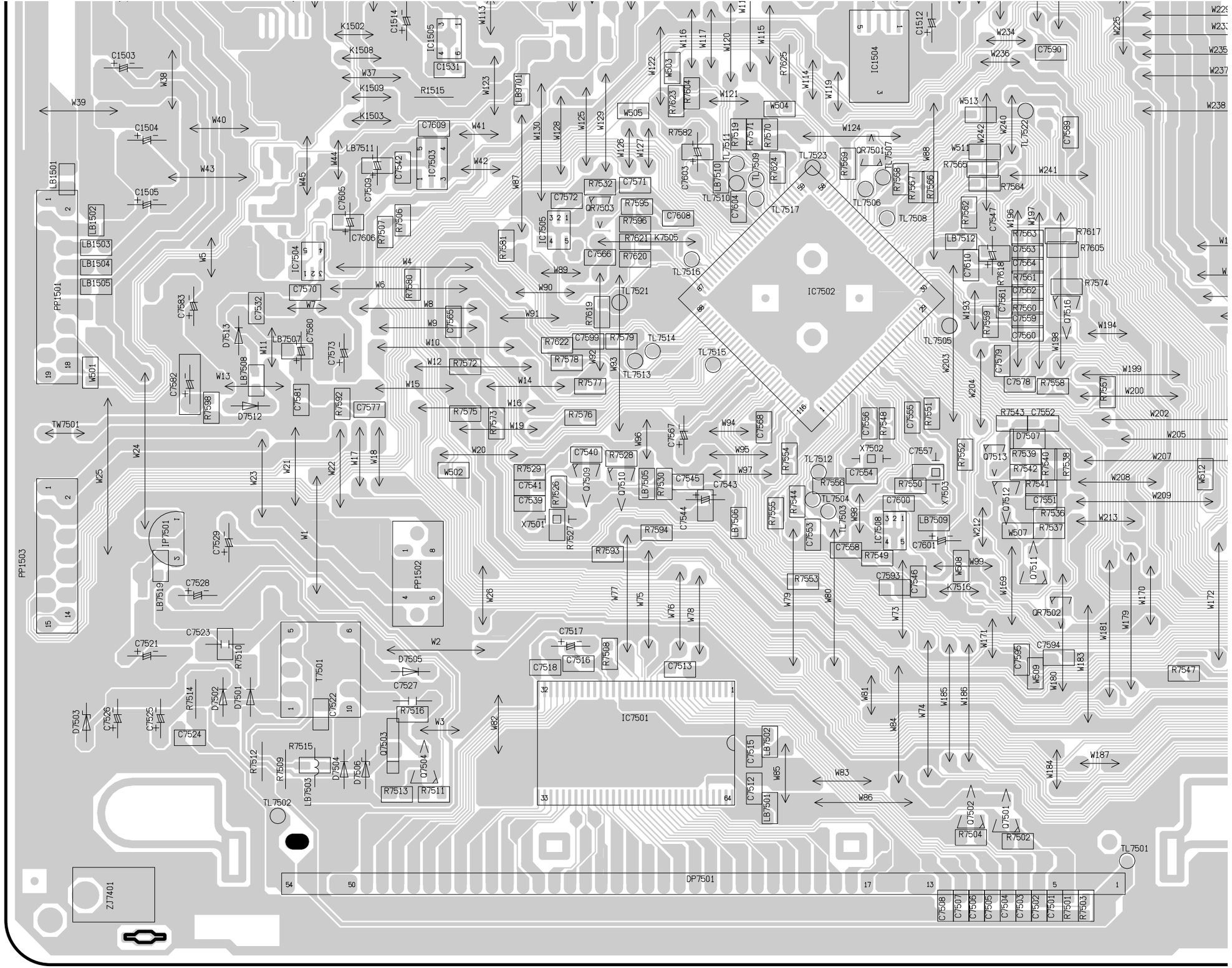
MAIN POWER SUPPLY P.C.B.

Integrated Circuit		PS104	B-1	ZD301	D-2	**Capacitor**		C118	B-4	R10	B-4	R122	C-2	R303	D-2	R336	B-2
IC1	B-4	PS105	A-3	ZD302	D-2	C1	C-5	C119	C-2	R11	B-5	R123	B-3	R304	D-2	R337	C-2
IC102	B-4	**Diode**		ZD303	C-1	C2	C-6	C120	B-4	R12	C-5	R124	B-4	R305	D-2	R338	D-2
IC301	D-2	D1	C-5	**IC Protector**		C3	B-5	C121	B-3	R13	B-4	R125	B-4	R306	D-2	R339	C-1
IC302	C-2	D2	C-5	IP101	B-2	C4	C-6	C122	B-3	R15	B-4	R126	B-4	R307	D-2	R340	D-2
Transistor		D4	C-4	IP102	B-3	C5	D-6	C123	B-2	R16	C-4	R127	C-2	R308	D-2	R341	C-1
Q1	B-4	D6	C-4	**Transformer**		C6	B-6	C124	B-2	R17	C-4	R128	B-4	R309	C-1	R342	C-2
Q2	B-4	D7	C-4	T1	C-4	C7	B-5	C125	C-2	R20	B-4	R129	C-2	R310	D-2	R343	C-2
Q3	C-5	D8	C-5	**Coil**		C8	B-5	C126	B-2	R21	B-4	R130	C-2	R311	D-2	R344	B-2
Q4	B-4	D101	C-3	L1	B-5	C9	C-5	C127	B-3	R22	B-4	R131	B-3	R312	D-2	R345	B-2
Q101	B-4	D103	C-3	L2	C-6	C10	B-4	C129	C-3	R23	B-4	R132	B-4	R313	C-1	VR102	B-3
Q102	B-4	D104	C-3	L3	C-4	C11	B-4	C302	D-2	R25	C-5	R133	B-2	R314	C-2	**Thermister**	
Q103	B-2	D105	D-3	L4	C-5	C12	B-4	C304	C-2	R26	C-5	R134	A-3	R315	D-1	TH1	C-4
Q104	A-3	D106	D-3	L5	C-5	C13	B-5	C306	D-2	R27	D-4	R135	C-2	R316	C-2		
Q105	A-3	D107	C-2	L6	C-4	C14	B-4	C307	C-1	R28	D-4	R136	A-3	R317	C-2		
Q106	A-3	D108	C-2	L101	C-3	C16	D-4	C308	C-2	R29	C-4	R137	A-3	R318	D-2		
Q107	B-3	D112	B-3	L103	C-3	C17	B-4	C309	B-2	R30	C-4	R138	A-3	R319	D-1		
Q108	B-2	D113	B-4	L104	D-3	C18	B-4	C310	D-2	R32	C-5	R139	A-3	R320	C-2		
Q109	B-2	D114	A-3	L105	D-3	C19	B-4	C311	B-2	R102	C-3	R140	B-2	R321	C-2		
Q301	D-2	D115	B-2	L107	B-2	C20	D-4	C312	C-2	R103	C-3	R141	B-2	R322	C-2		
Q302	D-2	D116	B-2	L108	C-3	C22	B-4	C313	B-2	R104	D-3	R142	B-2	R323	D-2		
Q303	D-2	D119	B-2	L109	C-4	C23	C-5	C314	D-2	R105	C-3	R143	B-3	R324	D-2		
Q304	C-2	D301	D-2	L110	C-3	C102	C-3	C315	C-1	R106	C-3	R144	B-3	R325	C-1		
Q305	C-2	D302	D-2	L111	C-3	C103	C-3	C316	B-2	R112	B-4	R148	C-2	R326	C-2		
Q306	C-2	D303	C-2	L112	C-2	C104	B-2	**Resistor**		R113	B-4	R149	C-2	R327	C-1		
Q307	D-2	D304	C-2	L113	B-3	C106	C-3	R1	B-5	R114	C-2	R150	C-2	R328	C-2		
Q308	C-2	Z2	C-6	L114	B-2	C107	C-3	R2	C-6	R115	C-2	R151	C-2	R329	C-2		
Q309	C-2	ZD1	B-4	L115	B-3	C109	C-2	R3	A-4	R116	C-2	R152	C-2	R330	C-2		
PC1	B-4	ZD2	B-4	L118	B-3	C110	C-2	R5	B-4	R117	C-2	R159	C-3	R331	C-2		
Connector		ZD101	C-2	L119	D-3	C112	B-3	R6	B-4	R118	C-2	R162	C-3	R332	C-2		
P1	D-7	ZD102	C-2	**Fuse**		C114	B-4	R7	B-4	R119	C-2	R163	C-3	R333	B-2		
PS102	A-2	ZD103	B-3	F1	C-6	C115	B-4	R8	B-4	R120	B-4	R301	D-2	R334	C-2		
PS103	D-1	ZD104	B-3	F101	B-3	C116	B-3	R9	B-4	R121	B-4	R302	C-2	R335	D-2		

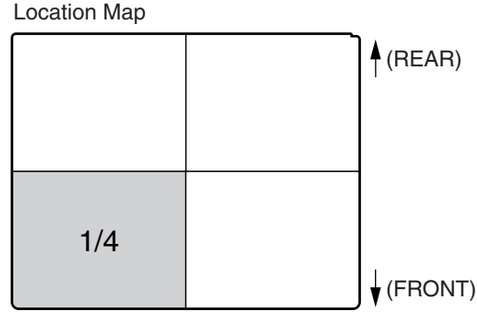
ADDRESS INFORMATION



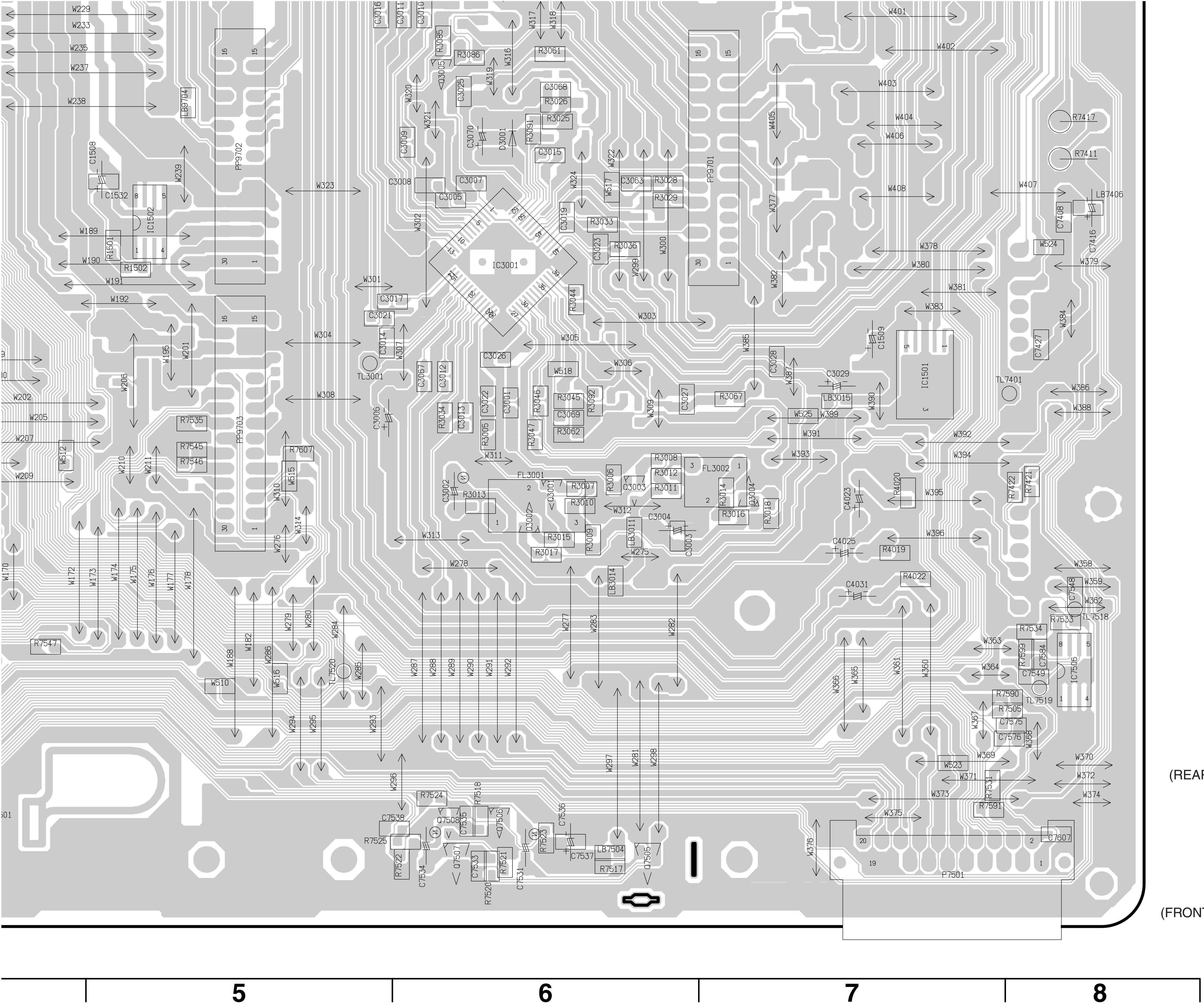
Main Power Supply P.C.B.
DMR-E50EB/EG/GCS (ETXMM444E4G)



Location Map



Main P.C.B. (1/4 Section)
DMR-E50EB (REP3532B)
DMR-E50EG/GCS (REP3532A)



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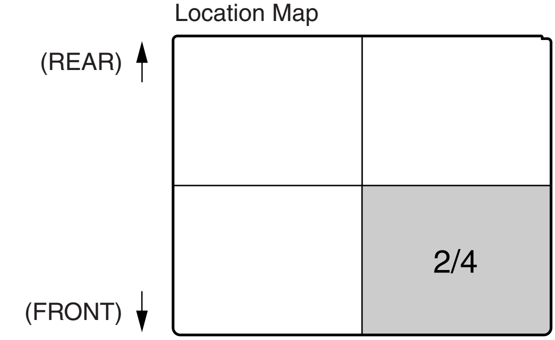


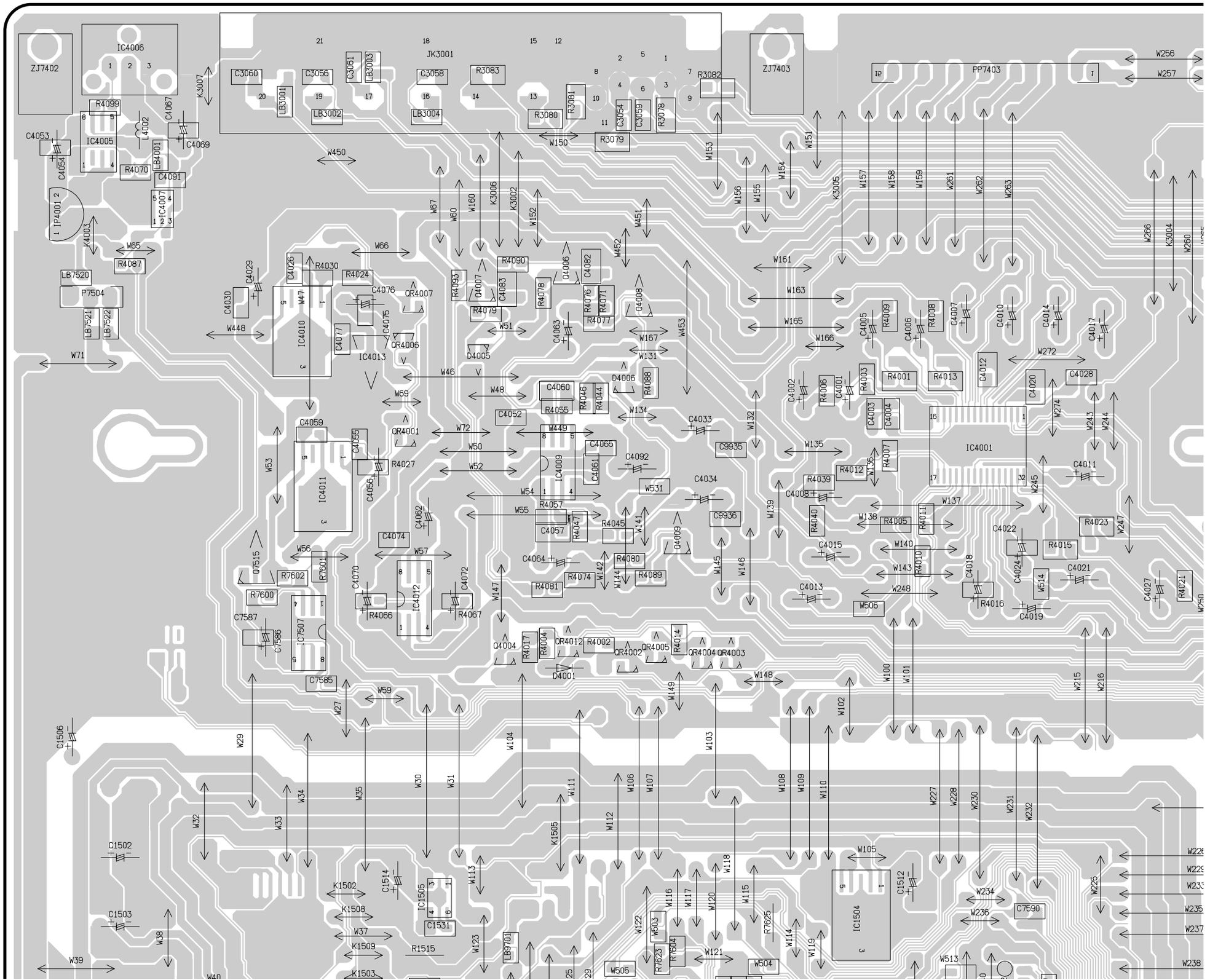
Main P.C.B. (2/4 Section)
DMR-E50EB (REP3532B)
DMR-E50EG/GCS (REP3532A)

MAIN P.C.B.

F

E

D



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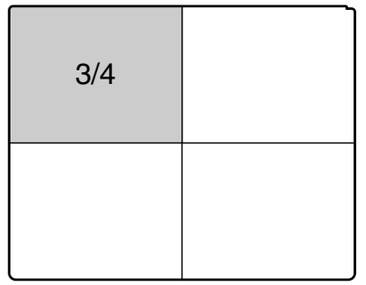
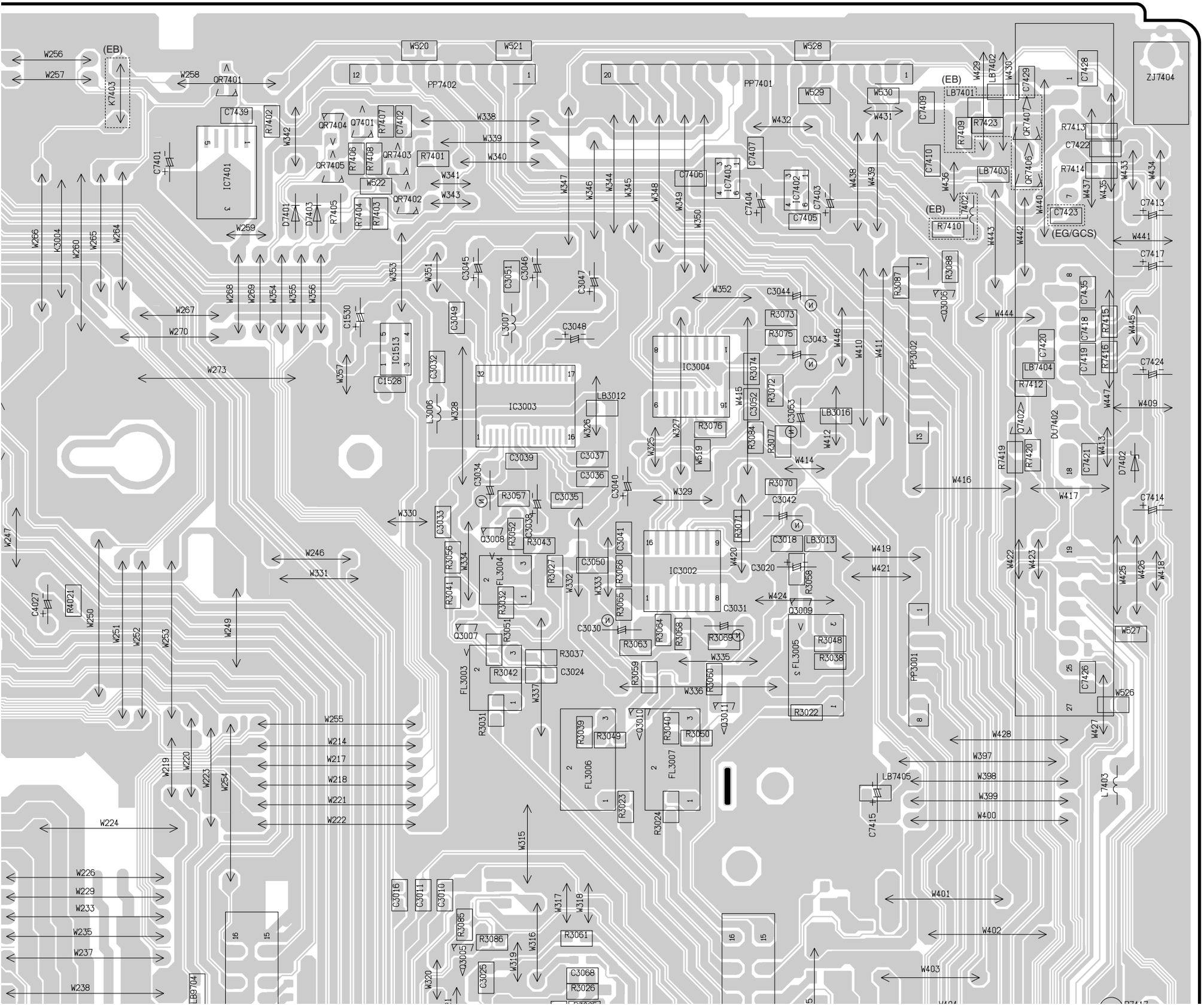


Main P.C.B. (3/4 Section)
DMR-E50EB (REP3532B)
DMR-E50EG/GCS (REP3532A)



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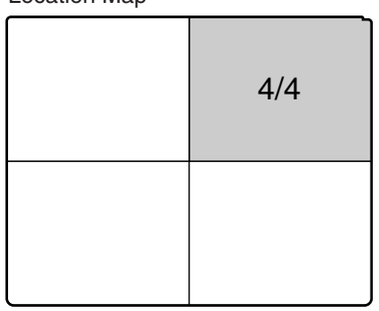

Main P.C.B. (4/4 Section)
DMR-E50EB (REP3532B)
DMR-E50EG/GCS (REP3532A)

MAIN P.C.B.

Integrated Circuit	
IC1501	B-7
IC1502	C-5
IC1504	D-3
IC1505	D-2
IC1513	E-5
IC3001	C-6
IC3002	E-6
IC3003	E-6
IC3004	E-6
IC4001	E-4
IC4005	F-1
IC4006	F-1
IC4007	F-1
IC4009	E-2
IC4010	E-2
IC4011	E-2
IC4012	E-2
IC4013	E-2
IC7401	F-5
IC7402	F-7
IC7403	F-6
IC7501	A-3
IC7502	C-3
IC7503	C-2
IC7504	C-2
IC7505	C-2
IC7506	B-8
IC7507	D-2
IC7508	B-3

Transistor	
Q3001	B-6
Q3002	B-6
Q3003	B-6
Q3004	B-7
Q3005	C-6
Q3006	E-7
Q3007	D-6
Q3008	E-6
Q3009	E-7
Q3010	D-6
Q3011	D-6
Q4004	D-2
Q4006	F-2
Q4007	F-2
Q4008	E-3
Q4009	E-3
Q7401	F-5
Q7402	E-7
Q7501	A-4
Q7502	A-4
Q7503	A-2
Q7504	A-2
Q7505	A-6
Q7506	A-6
Q7507	A-6
Q7508	A-6
Q7509	B-3
Q7510	B-3
Q7511	B-4
Q7512	B-4
Q7513	B-4
Q7515	E-2
Q7516	C-4

Transistor-resistor	
QR4001	E-2
QR4002	D-3
QR4003	D-3
QR4004	D-3
QR4005	D-3
QR4006	E-2
QR4007	E-2
QR4012	D-2
QR7401	F-5
QR7402	F-5
QR7403	F-5
QR7404	F-5
QR7405	F-5
QR7406	F-7
QR7407	F-7

QR7501	C-3
QR7502	B-4
QR7503	C-3

Test Point	
TL3001	C-5
TL7401	B-7
TL7501	A-4
TL7502	A-2
TL7503	B-3
TL7504	B-3
TL7505	C-4
TL7506	C-3
TL7507	C-3
TL7508	C-3
TL7509	C-3
TL7510	C-3
TL7511	C-3
TL7512	B-3
TL7513	C-3
TL7514	C-3
TL7515	C-3
TL7516	C-3
TL7517	C-3
TL7518	B-8
TL7519	A-8
TL7520	B-5
TL7521	C-3
TL7522	C-4
TL7523	C-3

Connector	
JK3001	F-2
P7501	A-7
P7504	E-1
PP1501	C-1
PP1502	B-2
PP1503	B-1
PP3001	D-7
PP3002	E-7
PP7401	F-7
PP7402	F-6
PP7403	F-4
PP9701	C-7
PP9702	C-5
PP9703	B-5

Diode	
D3001	C-6
D4001	D-2
D4005	E-2
D4006	E-3
D7401	F-5
D7402	E-8
D7403	F-5
D7501	B-1
D7502	B-1
D7503	A-1
D7504	A-2
D7505	B-2
D7506	A-2
D7507	B-4
D7512	B-1
D7513	C-1

Crystal Osillator	
X7501	B-2
X7502	B-3
X7503	B-4

IC Protector	
IP4001	F-1
IP7501	B-1

Coil	
L3006	E-6
L3007	E-6
L4002	F-1
L7402	F-7
L7403	D-8
LB1501	C-1
LB1502	C-1
LB1503	C-1
LB1504	C-1
LB1505	C-1
LB3001	F-2

LB3002	F-2
LB3003	F-2
LB3004	F-2
LB3011	B-6
LB3012	E-6
LB3013	E-7
LB3014	B-6
LB3015	B-7
LB3016	E-7
LB4001	F-1
LB7401	F-7
LB7402	F-7
LB7403	F-7
LB7404	E-7
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LB7406	C-8
LB7501	A-3
LB7502	A-3
LB7503	A-2
LB7504	A-6
LB7505	B-3
LB7506	B-3
LB7507	C-2
LB7508	B-1
LB7509	B-4
LB7510	C-3
LB7511	C-2
LB7512	C-4
LB7519	B-1
LB7520	F-1
LB7521	E-1
LB7522	E-1
LB9704	C-5

Filter	
FL3001	B-6
FL3002	B-7
FL3003	D-6
FL3004	E-6
FL3005	D-7
FL3006	D-6
FL3007	D-6

Capacitor	
C1502	D-1
C1503	C-1
C1504	C-1
C1505	C-1
C1506	D-1
C1508	C-5
C1509	C-7
C1512	D-4
C1514	D-2
C1528	E-5
C1530	E-5
C1531	C-2
C1532	C-5
C3001	B-6
C3002	B-6
C3003	B-6
C3004	B-6
C3005	C-6
C3006	B-5
C3007	C-6
C3008	C-6
C3009	C-6
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C3012	B-6
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C3018	E-7
C3019	C-6
C3020	E-7
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C4030	E-1
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C7401	F-5
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C7408	C-8
C7409	F-7
C7410	F-7
C7413	F-8
C7414	E-8
C7415	D-7
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C7542	C-2
C7543	B-3
C7544	B-3

C7545	B-3
C7546	B-4
C7547	C-4
C7548	B-8
C7549	A-8
C7551	B-4
C7552	B-4
C7553	B-3
C7554	B-3
C7555	B-4
C7556	B-3
C7557	B-4
C7558	B-3
C7559	C-4
C7560	C-4
C7561	C-4
C7562	C-4
C7563	C-4
C7564	C-4
C7565	C-2
C7566	C-3
C7567	B-3
C7568	B-3
C7570	C-2
C7571	C-3
C7572	C-2
C7573	C-2
C7575	A-8
C7576	A-8
C7577	B-2
C7578	B-4
C7579	C-4
C7580	C-2
C7581	B-2
C7582	B-1
C7583	C-1
C7584	B-8
C7585	D-2
C7586	D-2
C7587	D-2
C7589	C-4
C7590	D-4
C7593	B-3
C7594	B-4
C7595	B-4
C7599	C-3
C7600	B-3
C7601	B-4
C7603	C-3
C7604	C-3
C7605	C-2
C7606	C-2
C7607	A-8
C7608	C-3
C7609	C-2
C7610	C-4
C9935	E-3
C9936	E-3

Resistor	
R1501	C-5
R1502	C-5
R1515	C-2
R3005	B-6
R3006	B-6
R3007	B-6
R3008	B-6
R3009	B-6
R3010	B-6
R3011	B-6
R3012	B-6
R3013	B-6
R3014	B-7
R3015	B-6
R3016	B-7
R3017	B-6
R3018	B-7
R3022	D-7
R3023	D-6
R3024	D-6
R3025	C-6

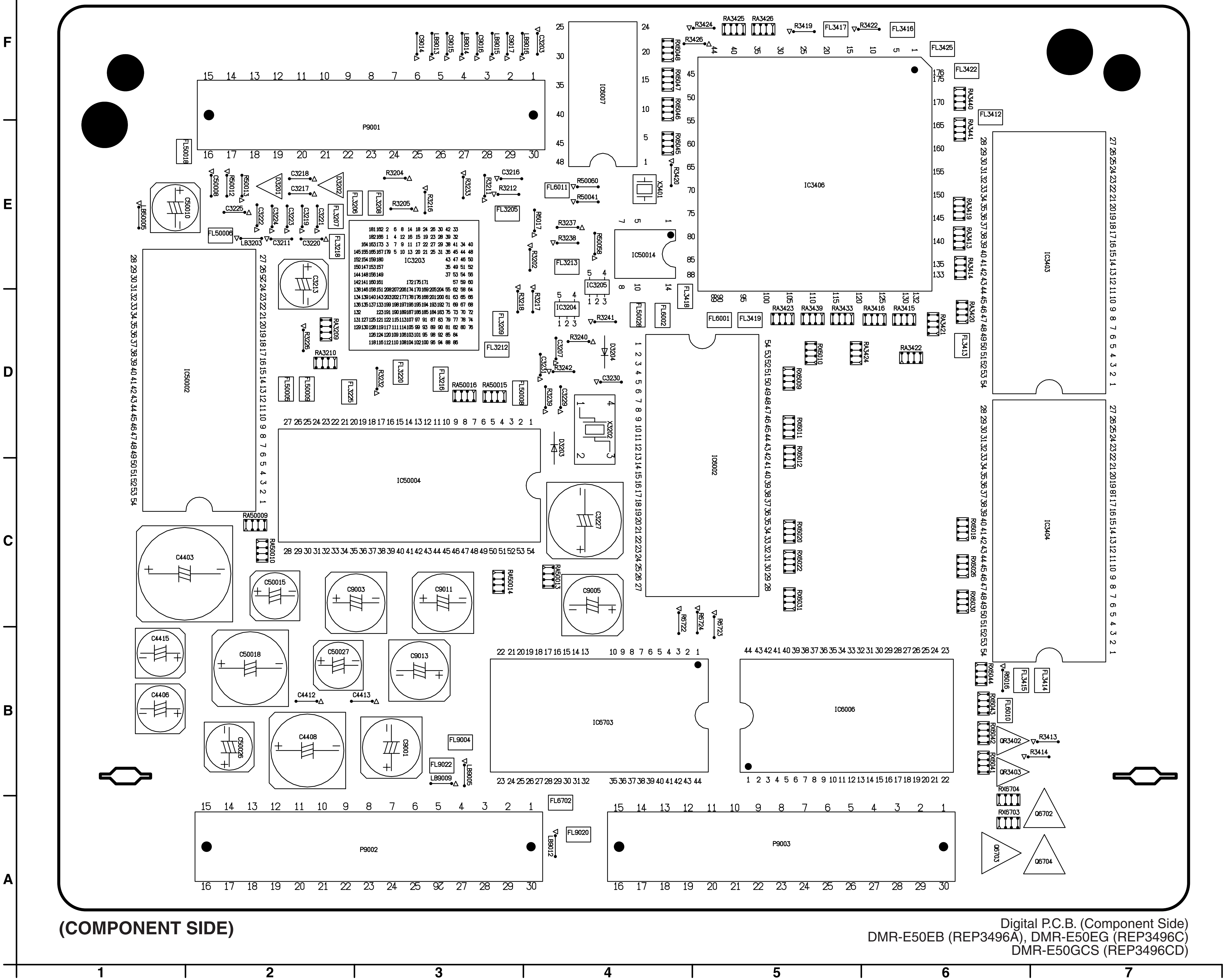
R3026	C-6
R3027	E-6
R3028	C-6
R3029	C-6
R3031	D-6
R3032	E-6
R3033	C-6
R3034	B-6
R3036	C-6
R3037	D-6
R3038	D-7
R3039	D-6
R3040	D-6
R3041	E-6
R3042	D-6
R3043	E-6
R3044	C-6
R3045	B-6
R3046	B-6
R3047	B-6
R3048	D-7
R3049	D-6
R3050	D-6
R3051	D-6
R3052	E-6
R3056	E-6
R3057	E-6
R3058	E-7
R3059	D-6
R3060	D-6
R3061	D-6
R3062	B-6
R3063	D-6
R3064	D-6
R3065	E-6
R3066	E-6
R3067	B-7
R3068	D-6
R3069	D-6
R3070	E-7
R3071	E-7
R3072	E-7
R3073	E-7
R3074	E-7
R3075	E-7
R3076	E-6
R3077	E-7
R3078	F-3
R3079	F-3
R3080	F-2
R3081	F-3
R3082	F-3
R3083	F-2
R3084	E-7
R3085	D-6
R3086	C-6
R3087	F-7
R3088	F-7
R3091	C-6
R3092	B-6
R4001	E-4
R4002	D-3
R4003	E-3
R4004	D-2
R4005	E-4
R4006	E-3
R4007	E-4
R4008	E-4
R4009	E-4
R4010	E-4
R4011	E-4
R4012	E-3
R4013	E-4
R4014	D-3
R4015	E-4
R4016	E-4
R4017	D-2
R4019	B-7
R4020	B-7
R4021	E-4

R4022	B-7
R4023	E-4
R4024	F-2
R4027	E-2
R4030	F-2
R4039	E-3
R4040	E-3
R4044	E-3
R4045	E-3
R4046	E-3
R4047	E-3
R4055	E-2
R4057	E-2
R4066	E-2
R4067	E-2
R4070	F-1
R4071	E-3
R4074	E-3
R4076	E-3
R4077	E-3
R4078	E-2
R4079	E-2
R4080	E-3
R4081	E-2
R4087	F-1
R4088	E-3
R4089	E-3
R4090	F-2
R4093	F-2
R4099	F-1
R7401	F-6
R7402	F-5
R7403	F-5
R7404	F-5
R7405	F-5
R7406	F-5
R7407	F-5
R7408	F-5
R7409	F-7
R7410	F-7
R7411	C-8
R7412	E-7
R7413	F-8
R7414	F-8
R7415	E-8
R7416	E-8
R7417	C-8
R7419	E-7
R7420	E-7
R7421	B-8
R7422	B-8
R7423	F-7
R7501	A-4
R7502	A-4
R7503	A-4
R7504	A-4
R7505	A-8
R7506	C-2
R7507	C-2
R7508	B-3
R7509	A-2
R7510	B-1
R7511	A-2
R7512	A-1
R7513	A-2
R7514	B-1
R7515	A-2
R7516	A-2
R7517	A-6
R7518	A-6
R7519	C-3
R7520	A-6
R7521	A-6
R7522	A-6
R7523	A-6
R7524	A-6
R7525	A-6
R7526	B-2
R7527	B-2
R7528	B-3

R7529	B-2
R7530	B-3
R7531	A-7
R7532	C-3
R7533	B-8
R7534	B-8
R7535	B-5
R7536	B-4
R7537	B-4
R7538	B-4
R7539	B-4
R7540	B-4
R7541	B-4
R7542	B-4
R7543	B-4
R7544	B-3
R7545	B-5
R7546	B-5
R7547	B-4
R7548	B-3
R7549	B-3
R7550	B-4
R7551	B-4
R7552	B-4
R7553	B-3
R7554	B-3
R7555	B-3
R7556	B-3
R7557	B-4
R7558	B-4
R7559	C-4
R7560	C-4
R7561	C-4
R7562	C-4
R7563	C-4
R7564	C-4
R7565	C-4
R7566	C-4
R7567	C-4
R7568	C-3
R7569	C-3
R7570	C-3
R7571	C-3
R7572	C-2
R7573	B-2
R7574	C-4
R7575	B-2
R7576	B-2
R7577	B-3
R7578	C-2
R7579	C-3
R7580	C-2
R7581	C-2
R7582	C-3
R7590	A-8
R7591	A-7
R7592	B-2
R7593	B-3
R7594	B-3
R7595	C-3
R7596	C-3
R7598	B-1
R7599	B-8
R7600	E-2
R7601	E-2
R7602	E-2
R7604	C-3
R7605	C-4
R7607	B-5
R7617	C-4
R7618	C-4
R7619	C-3
R7620	C-3
R7621	C-3
R7622	C-2
R7623	C-3
R7624	C-3
R7625	C-3

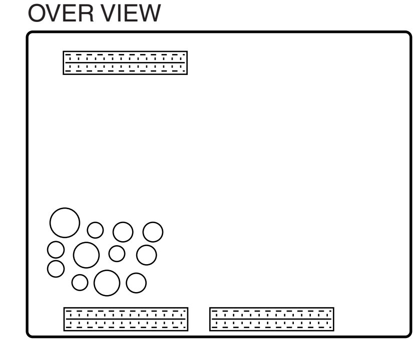
Transformer	
T7501	B-2

DIGITAL P.C.B.



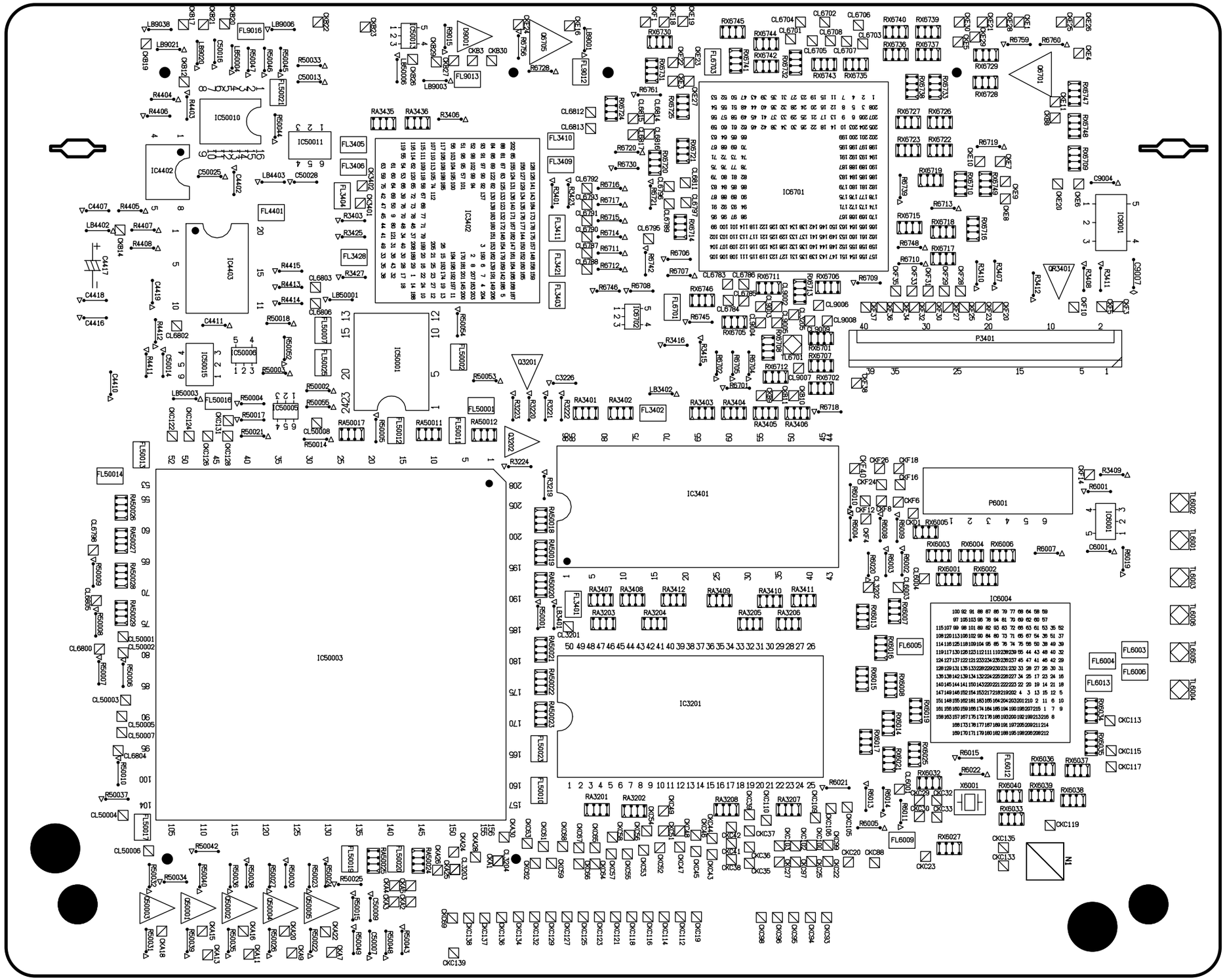
(COMPONENT SIDE)

OVER VIEW

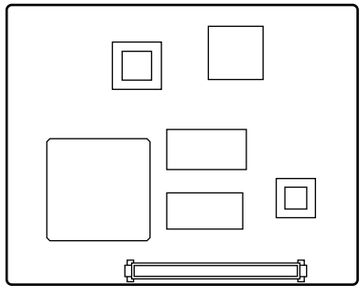


Digital P.C.B. (Component Side)
DMR-E50EB (REP3496A), DMR-E50EG (REP3496C)
DMR-E50GCS (REP3496CD)

DIGITAL P.C.B.



OVER VIEW



(FOIL SIDE)

Digital P.C.B. (Foil Side)
DMR-E50EB (REP3496A), DMR-E50EG (REP3496C)
DMR-E50GCS (REP3496CD)

DIGITAL P.C.B.

Integrated Circuit		
IC3201	B-5	F
IC3203	E-3	C
IC3204	D-4	C
IC3205	E-4	C
IC3401	C-5	F
IC3402	E-3	F
IC3403	E-7	C
IC3404	C-7	C
IC3406	E-5	C
IC4402	E-2	F
IC4403	E-2	F
IC6001	C-7	F
IC6002	C-5	C
IC6004	C-6	F
IC6006	B-5	C
IC6007	F-4	C
IC6701	E-5	F
IC6702	D-4	F
IC6703	B-4	C
IC9001	E-7	F
IC50001	D-3	F
IC50002	D-2	C
IC50003	C-3	F
IC50004	C-3	C
IC50005	D-2	F
IC50006	D-2	F
IC50010	F-2	F
IC50011	E-2	F
IC50013	F-3	F
IC50014	E-4	C
IC50015	D-2	F

Transistor		
Q3201	D-4	F
Q3202	D-4	F
Q6701	F-6	F
Q6702	A-7	C
Q6703	A-6	C
Q6704	A-7	C
Q6705	F-4	F
Q50001	A-2	F
Q50002	A-2	F
Q50003	A-2	F
Q50004	A-2	F
Q50005	A-2	F

Transistor-resistor		
QR3401	E-7	F
QR3402	B-6	C
QR3403	B-6	C

Test Point		
CK3401	E-3	F
CK3402	E-3	F
CKA1	A-3	F
CKA2	A-3	F
CKA3	A-3	F
CKA4	A-3	F
CKA5	A-3	F
CKA7	A-3	F
CKA9	A-2	F
CKA11	A-2	F
CKA13	A-2	F
CKA15	A-2	F
CKA16	A-2	F
CKA18	A-2	F
CKA20	A-2	F
CKA22	A-3	F
CKA24	B-3	F
CKA25	A-3	F
CKA26	A-3	F
CKA28	A-3	F
CKA30	B-4	F
CKB3	F-3	F
CKB8	F-7	F
CKB9	D-5	F
CKB10	D-5	F
CKB11	D-5	F
CKB12	F-2	F
CKB14	E-1	F
CKB17	F-2	F
CKB19	F-2	F
CKB20	F-2	F

CKB21	F-2	F
CKB22	F-2	F
CKB23	F-3	F
CKB26	F-3	F
CKB27	F-3	F
CKB29	F-3	F
CKB30	F-3	F
CKC19	A-5	F
CKC20	A-5	F
CKC22	A-5	F
CKC23	A-6	F
CKC25	A-5	F
CKC27	A-5	F
CKC29	B-6	F
CKC30	B-6	F
CKC32	B-6	F
CKC33	B-6	F
CKC35	A-5	F
CKC36	B-5	F
CKC37	B-5	F
CKC38	A-5	F
CKC39	B-5	F
CKC41	B-5	F
CKC42	B-5	F
CKC43	B-5	F
CKC44	B-5	F
CKC45	B-5	F
CKC46	B-5	F
CKC47	B-4	F
CKC48	B-4	F
CKC49	B-4	F
CKC51	B-4	F
CKC52	B-4	F
CKC53	B-4	F
CKC54	B-4	F
CKC55	B-4	F
CKC56	B-4	F
CKC57	B-4	F
CKC58	B-4	F
CKC59	A-4	F
CKC61	B-4	F
CKC62	A-4	F
CKC63	B-4	F
CKC64	A-4	F
CKC65	B-4	F
CKC66	A-4	F
CKC67	B-4	F
CKC68	B-4	F
CKC69	A-3	F
CKC88	A-6	F
CKC93	A-5	F
CKC94	A-5	F
CKC95	A-5	F
CKC96	A-5	F
CKC97	A-5	F
CKC98	A-5	F
CKC99	B-5	F
CKC100	B-5	F
CKC102	B-5	F
CKC103	B-5	F
CKC105	B-5	F
CKC106	B-5	F
CKC109	B-5	F
CKC110	B-5	F
CKC112	A-4	F
CKC113	B-7	F
CKC114	A-4	F
CKC115	B-7	F
CKC116	A-4	F
CKC117	B-7	F
CKC118	A-4	F
CKC119	B-7	F
CKC121	A-4	F
CKC122	D-2	F
CKC123	A-4	F
CKC124	D-2	F
CKC125	A-4	F
CKC126	D-2	F
CKC127	A-4	F
CKC128	D-2	F
CKC129	A-4	F

CKC131	D-2	F
CKC132	A-4	F
CKC133	A-6	F
CKC134	A-4	F
CKC135	B-6	F
CKC136	A-3	F
CKC137	A-3	F
CKC138	A-3	F
CKC139	A-3	F
CKD1	C-6	F
CKE1	F-6	F
CKE3	F-4	F
CKE4	F-7	F
CKE5	F-6	F
CKE6	E-7	F
CKE7	E-6	F
CKE8	E-6	F
CKE9	E-6	F
CKE10	E-6	F
CKE11	F-7	F
CKE16	F-4	F
CKE18	F-4	F
CKE19	F-4	F
CKE20	E-7	F
CKE21	F-6	F
CKE22	F-4	F
CKE23	F-5	F
CKE24	F-4	F
CKE25	F-7	F
CKE26	F-7	F
CKE27	F-5	F
CKE28	F-6	F
CKE29	F-6	F
CKE30	F-6	F
CKF1	F-4	F
CKF3	E-7	F
CKF4	C-6	F
CKF5	E-7	F
CKF6	C-6	F
CKF8	C-6	F
CKF10	E-7	F
CKF12	C-6	F
CKF14	D-7	F
CKF16	D-6	F
CKF18	D-6	F
CKF20	E-6	F
CKF23	E-6	F
CKF24	D-6	F
CKF25	E-6	F
CKF26	D-6	F
CKF27	E-6	F
CKF28	E-6	F
CKF29	E-6	F
CKF30	E-6	F
CKF31	E-6	F
CKF32	E-6	F
CKF33	E-6	F
CKF34	E-6	F
CKF35	E-6	F
CKF36	E-6	F
CKF37	E-6	F
CKF38	D-5	F
CKF40	D-5	F
CL3201	C-4	F
CL3202	C-6	F
CL3203	A-3	F
CL3204	A-3	F
CL3205	D-5	F
CL6001	B-6	F
CL6003	C-6	F
CL6004	C-6	F
CL6701	F-5	F
CL6702	F-5	F
CL6703	F-5	F
CL6704	F-5	F
CL6705	F-5	F
CL6706	F-5	F
CL6707	F-5	F
CL6708	F-5	F
CL6783	E-5	F
CL6784	E-5	F

CL6785	E-5	F
CL6786	E-5	F
CL6787	E-4	F
CL6788	E-4	F
CL6789	E-4	F
CL6790	E-4	F
CL6791	E-4	F
CL6792	E-4	F
CL6793	E-4	F
CL6795	E-4	F
CL6796	E-4	F
CL6797	E-5	F
CL6798	C-1	F
CL6800	C-1	F
CL6802	D-2	F
CL6803	E-2	F
CL6804	B-1	F
CL6805	C-1	F
CL6806	E-2	F
CL6811	E-5	F
CL6812	F-4	F
CL6813	F-4	F
CL6814	F-4	F
CL6815	F-4	F
CL6816	E-4	F
CL6817	E-4	F
CL9002	E-5	F
CL9003	E-5	F
CL9004	D-5	F
CL9005	D-5	F
CL9006	E-5	F
CL9007	D-5	F
CL9008	D-5	F
CL9009	D-5	F
CL50001	C-1	F
CL50002	C-1	F
CL50003	B-1	F
CL50004	B-1	F
CL50005	B-1	F
CL50006	B-2	F
CL50007	B-1	F
CL50008	D-2	F
TL6001	C-7	F
TL6002	C-7	F
TL6003	C-7	F
TL6004	B-7	F
TL6005	C-7	F
TL6006	C-7	F
TL6701	D-5	F

Connector		
P3401	D-6	F
P6001	C-6	F
P9001	F-3	C
P9002	A-3	C
P9003	A-5	C

Diode		
D3201	E-2	C
D3202	E-2	C
D3203	D-4	C
D3204	D-4	C
D9001	F-3	F

Crystal Osillator		
X3202	D-4	C
X3401	E-4	C
X6001	B-6	F

Coil		
LB3203	E-2	C
LB3401	C-4	F
LB3402	D-4	F
LB4402	E-1	F
LB4403	E-2	F
LB9001	F-4	F
LB9003	F-3	F
LB9005	B-3	C
LB9006	F-2	F
LB9009	B-3	C
LB9012	A-4	C
LB9013	F-3	C
LB9014	F-3	C
LB9015	F-3	C
LB9016	F-4	C

LB9020	F-2	F
LB9021	F-2	F
LB9038	F-2	F
LB50001	E-3	F
LB50003	D-2	F
LB50004	F-2	F
LB50005	E-1	C
LB50006	F-3	F

Filter		
FL3205	E-3	C
FL3206	E-3	C
FL3207	E-2	C
FL3208	E-3	C
FL3209	D-3	C
FL3212	D-3	C
FL3213	E-4	C
FL3216	D-3	C
FL3218	E-2	C
FL3220	D-3	C
FL3225	D-2	C
FL3401	C-4	F
FL3402	D-4	F
FL3403	E-4	F
FL3404	E-3	F
FL3405	E-3	F
FL3406	E-3	F
FL3409	E-4	F
FL3410	E-4	F
FL3411	E-4	F
FL3412	F-6	C
FL3413	D-6	C
FL3414	B-7	C
FL3415	B-6	C
FL3416	F-6	C
FL3417	F-5	C
FL3418	D-4	C
FL3419	D-5	C
FL3421	E-4	F
FL3422	F-6	C
FL3425	F-6	C
FL3428	E-3	F
FL4401	E-2	F
FL6001	D-5	C
FL6002	D-4	C
FL6003	C-7	F
FL6004	C-7	F
FL6005	C-6	F
FL6006	C-7	F
FL6009	B-6	F
FL6010	B-6	C
FL6011	E-4	C
FL6012	B-6	F
FL6013	B-7	F
FL6701	E-4	F
FL6702	A-4	C
FL6703	F-5	F
FL9004	B-3	C
FL9012	F-4	F
FL9013	F-3	F
FL9016	F-2	F
FL9020	A-4	C
FL9022	B-3	C
FL50001	D-3	F
FL50002	D-3	F
FL50005	D-2	C
FL50006	E-2	C
FL50007	D-3	F
FL50008	D-4	C
FL50009	D-2	C
FL50010	B-4	F
FL50011	D-3	F
FL50012	D-3	F
FL50013	D-1	F
FL50014	D-1	F
FL50016	D-2	F
FL50017	B-2	F
FL50018	E-2	C
FL50019	A-3	F
FL50020	A-3	F
FL50021	F-2	F
FL50023	B-4	F

FL50025	D-3	F
FL50028	D-4	C

Capacitor		
C3203	F-4	C
C3207	D-4	C
C3211	E-2	C
C3213	E-2	C
C3216	E-3	C
C3217	E-2	C
C3218	E-2	C
C3219	E-2	C
C3220	E-2	C
C3221	E-2	C
C3222	E-2	C
C3223	E-2	C
C3224	E-2	C
C3225	E-2	C
C3226	D-4	F
C3227	C-4	C
C3229	D-4	C
C3230	D-4	C
C3231	D-4	C
C4402	E-2	F
C4403	C-2	C
C4406	B-1	C
C4407	E-1	F
C4408	B-2	C
C4410	D-1	F
C4411	D-2	F
C4412	B-2	C
C4413	B-3	C
C4415	B-1	C
C4416	D-1	F
C4417	E-1	F
C4418	E-1	F
C4419	E-2	F
C6001	C-7	F
C9001	B-3	C
C9003	C-3	C
C9004	E-7	F
C9005	C-4	C
C9007	E-7	F
C9011	C-3	C
C9013	B-3	C
C9014	F-3	C
C9015	F-3	C
C9016	F-3	C
C9017	F-3	C
C50007	A-3	F
C50008	E-2	C
C50009	A-3	F
C50010	E-1	C
C50013	F-2	F
C50014	D-2	F
C50015	C-2	C
C50016	F-2	F
C50018	B-2	C
C50025	E-2	F
C50026	B-2	C
C50027	B-2	C
C50028	E-2	F

Resistor		
R3202	E-4	C
R3204	E-3	C
R3205	E-3	C
R3211	E-3	C
R3212	E-3	C
R3216	E-3	C
R3217	D-4	C
R3218	D-3	C
R3219	D-4	F
R3220	D-4	F
R3221	D-4	F
R3222	D-4	F
R3223	D-4	F
R3224	D-4	F
R3226	D-2	C
R3232	D-3	C
R3233	E-3	C
R3237	E-4	C
R3238	E-4	C
R3239	D-4	C
R3240	D-4	C
R3241	D-4	C
R3242	D-4	C
R3401	E-4	F
R3403	E-3	F
R3406	F-3	F
R3407	E-6	F
R3408	E-7	F
R3409	D-7	F
R3410	E-6	F
R3411	E-7	F
R3412	E-6	F
R3413	B-7	C
R3414	B-7	C
R3415	D-5	F
R3416	D-4	F
R3419	F-5	C
R3420	E-4	C
R3422	F-6	C
R3423	E-4	F
R3424	F-5	C
R3425	E-3	F
R3426	F-5	C
R3427	E-3	F
R4403	F-2	F
R4404	F-2	F
R4405	E-1	F
R4406	F-2	F
R4407	E-2	F
R4408	E-2	F
R4411	D-2	F
R4412	D-2	F
R4413	E-2	F
R4414	E-2	F
R4415	E-2	F
R6001	D-7	F
R6002	C-6	F
R6003	C-6	F
R6004	C-5	F
R6005	B-6	F
R6007	C-7	F
R6008	C-6	F
R6009	C-6	F
R6010	C-5	F
R6011	B-6	F
R6013	B-6	F
R6014	B-6	F
R6015	B-6	F
R6016	B-6	C
R6017	E-4	C
R6019	C-7	F
R6020	C-6	F
R6021	B-5	F
R6022	B-6	F
R6701	D-5	F
R6702	D-5	F
R6704	D-5	F
R6705	D-5	F
R6706	E-4	F
R6707	E-4	F
R6708	E-4	F
R6709	E-6	F
R6710	E-6	F
R6711	E-4	F
R6712	E-4	F
R6713	E-6	F
R6714	E-4	F
R6715	E-4	F
R6716	E-4	F
R6717	E-4	F
R6718	D-5	F
R6719	E-6	F
R6720	E-4	F
R6721	E-4	F
R6722	C-4	C
R6723	C-5	C
R6724	C-5	C
R6728	F-4	F
R6730	E-4	F
R6739	E-6	F

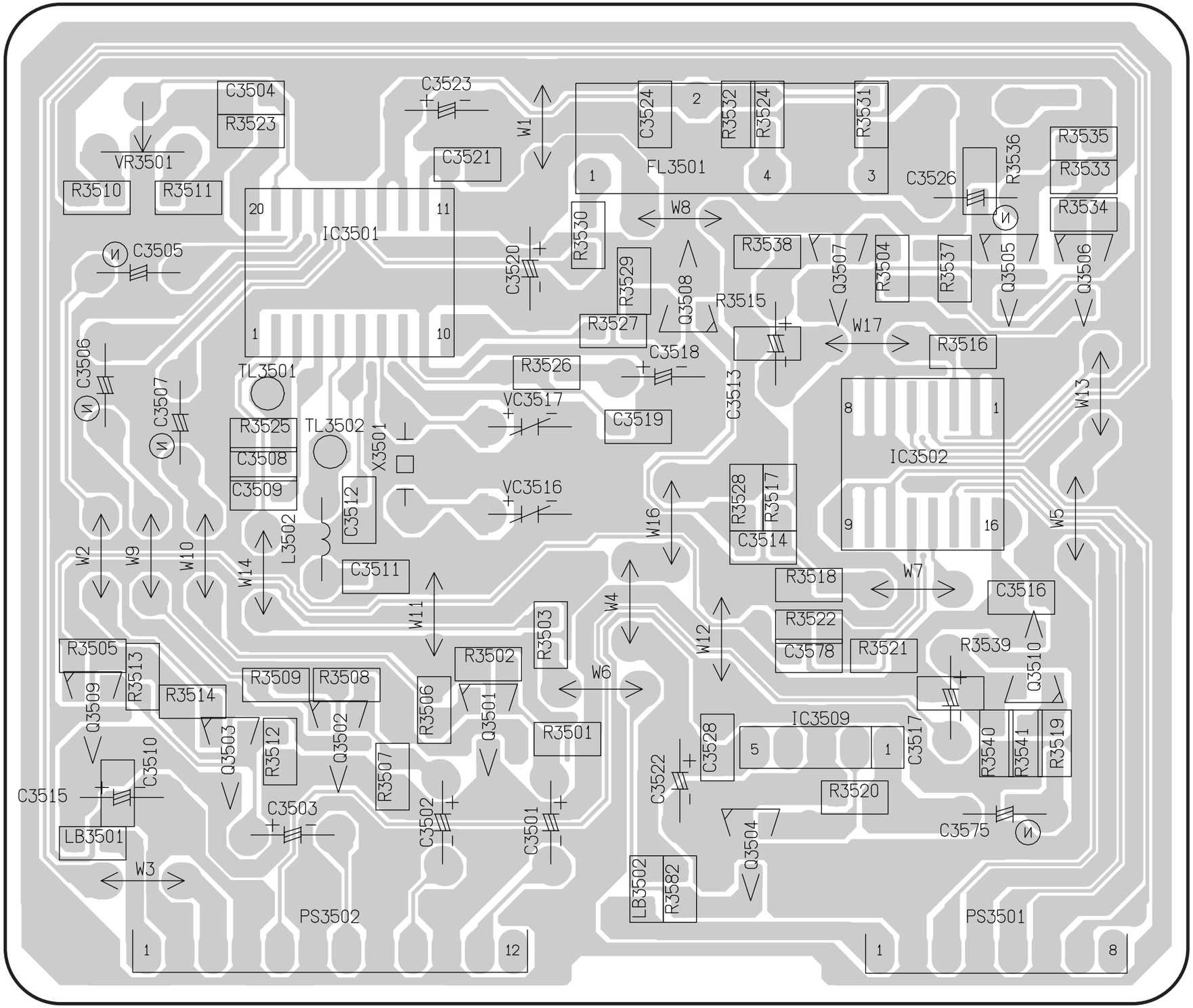
R6742	E-4	F
R6745	D-5	F
R6746	E-4	F
R6748	E-6	F
R6756	F-4	F
R6759	F-6	F
R6760	F-7	F
R6761	F-4	F
R9015	F-3	F
R50001	C-4	F
R50002	D-2	F
R50003	D-2	F
R50004	D-2	F
R50005	D-3	F
R50006	B-1	F
R50007	C-1	F
R50008	C-1	F
R50009	C-1	F
R50010	B-1	F
R50012	E-2	C
R50013	E-2	C
R50014	D-2	F
R50015	A-3	F
R50017	D-2	F
R50018	D-2	F
R50021	D-2	F
R50022	A-2	F
R50023	A-2	F
R50024	A-3	F
R50025	A-3	F
R50026	A-2	F
R50027	A-2	F
R50030	A-2	F
R50031	A-2	F
R50032	A-2	F
R50033	F-2	F
R50034	A-2	F
R50035	A-2	F
R50036	A-2	F
R50037	B-1	F
R50038	A-2	F
R50039	A-2	F
R50040	A-2	F
R50041	E-4	C
R50042	B-2	F
R50043	A-3	F
R50044	F-2	F
R50045	F-2	F
R50046	F-2	F
R50047	F-2	F
R50048	A-3	F
R50049	A-3	F
R50052	D-2	F
R50053	D-3	F
R50054	D-3	F
R50055	D-2	F
R50058	E-4	C
R50060	E-4	C
RA3201	B-4	F
RA3202	B-4	F
RA3203	C-4	F
RA3204	C-4	F
RA3205	C-5	F
RA3206	C-5	F
RA3207	B-5	F
RA3208	B-5	F
RA3209	D-2	C
RA3210	D-2	C
RA3401	D-4	F
RA3402	D-4	F
RA3403	D-5	F
RA3404	D-5	F
RA3405	D-5	F
RA3406	D-5	F
RA3407	C-4	F
RA3408	C-4	F
RA3409	C-5	F
RA3410	C-5	F
RA3411	C-5	F
RA3412	C-4	F
RA3413	E-6	C

RA3414	E-6	C
RA3415	D-6	C
RA3416	D-6	C
RA3419	E-6	C
RA3420	D-6	C
RA3421	D-6	C
RA3422	D-6	C
RA3423	D-5	C
RA3424	D-6	C
RA3425	F-5	C
RA3426	F-5	C
RA3433	D-5	C
RA3435	F-3	F
RA3436	F-3	F
RA3439	D-5	C
RA3440	F-6	C
RA3441	E-6	C
RA50009	C-2	C
RA50010	C-2	C
RA50011	D-3	F
RA50012	D-3	F
RA50013	C-4	C
RA50014	C-3	C
RA50015	D-3	C
RA50016	D-3	C
RA50017	D-3	F
RA50018	C-4	F
RA50019	C-4	F
RA50020	C-4	F
RA50021	C-4	F
RA50022	B-4	F
RA50023	B-4	F
RA50024	A-3	F
RA50025	A-3	F
RA50026	C-1	F
RA50027	C-1	F
RA50028	C-1	F
RA50029	C-1	F
RX6001	C-6	F
RX6002	C-6	F
RX6003	C-6	F
RX6004	C-6	F
RX6005	C-6	F
RX6006	C-6	F
RX6007	C-6	F
RX6008	B-6	F
RX6009	D-5	C
RX6010	D-5	C
RX6011	D-5	C
RX6012	D-5	C
RX6013	C-5	F
RX6014	B-6	F
RX6015	B-5	F
RX6016	C-6	F
RX6017	B-6	F
RX6018	C-6	C
RX6019	B-6	F
RX6020	C-5	C
RX6021	B-6	F
RX6022	C-5	C
RX6025	B-6	F
RX6026	C-6	C
RX6027	B-6	F
RX6030	C-6	C
RX6031	C-5	C
RX6032	B-6	F
RX6033	B-6	F
RX6034	B-7	F
RX6035	B-7	F
RX6036	B-6	F
RX6037	B-7	F
RX6038	B-7	F
RX6039	B-6	F
RX6040	B-6	F
RX6041	B-6	C
RX6042	B-6	C
RX6043	B-6	C
RX6044	B-6	C
RX6045	E-4	C
RX6046	F-4	C
RX6047	F-4	C

RX6048	F-4	C
RX6701	D-5	F
RX6702	D-5	F
RX6703	A-6	C
RX6704	B-6	C
RX6705	D-5	F
RX6706	E-5	F
RX6707	D-5	F
RX6708	D-5	F
RX6709	E-7	F
RX6710	E-6	F
RX6711	E-5	F
RX6712	D-5	F
RX6713	E-5	F
RX6714	E-4	F
RX6715	E-6	F
RX6716	E-6	F
RX6717	E-6	F
RX6718	E-6	F
RX6719	E-6	F
RX6720	E-4	F
RX6721	E-4	F
RX6722	E-6	F
RX6723	E-6	F
RX6724	F-4	F
RX6725	F-4	F
RX6726	F-6	F
RX6727	F-6	F
RX6728	F-6	F
RX6729	F-6	F
RX6730	F-4	F
RX6731	F-4	F
RX6732	F-5	F
RX6733	F-6	F
RX6735	F-5	F
RX6736	F-6	F
RX6737	F-6	F
RX6738	F-6	F
RX6739	F-6	F
RX6740	F-6	F
RX6741	F-5	F
RX6742	F-5	F
RX6743	F-5	F
RX6744	F-5	F
RX6745	F-5	F
RX6746	E-5	F
RX6747	F-7	F
RX6748	F-7	F
RX6749	E-6	F

ADDRESS INFORMATION
C……COMPONENT SIDE
F……FOIL SIDE

RGB P.C.B.



RGB P.C.B.			
Integrated Circuit		**Capacitor**	
IC3501	E-3	C3524	F-4
IC3502	D-6	C3526	E-6
IC3509	B-5	C3528	B-5
		C3575	B-6
Transistor		C3578	C-5
Q3501	B-3	**Resistor**	
Q3502	B-3	R3501	B-4
Q3503	B-2	R3502	C-3
Q3504	B-5	R3503	C-4
Q3505	E-6	R3504	E-6
Q3506	E-7	R3505	C-1
Q3507	E-5	R3506	B-3
Q3508	E-4	R3507	B-3
Q3509	B-1	R3508	B-3
Q3510	C-6	R3509	B-2
Test Point		R3510	E-1
TL3501	D-2	R3511	E-2
TL3502	D-3	R3512	B-2
Connector		R3513	C-2
PS3501	A-6	R3514	B-2
PS3502	A-3	R3515	D-5
Crystal Osillator		R3516	D-6
X3501	D-3	R3517	C-5
Coil		R3518	C-5
L3502	C-3	R3519	B-6
LB3501	B-1	R3520	B-5
LB3502	A-4	R3521	C-6
Filter		R3522	C-5
FL3501	E-5	R3523	E-2
Capacitor		R3524	F-5
C3501	B-4	R3525	D-2
C3502	B-3	R3526	D-4
C3503	B-2	R3527	D-4
C3504	F-2	R3528	C-5
C3505	E-2	R3529	E-4
C3506	D-1	R3530	E-4
C3507	D-2	R3531	F-5
C3508	D-2	R3532	F-5
C3509	D-2	R3533	E-7
C3510	B-1	R3534	E-7
C3511	C-3	R3535	E-7
C3512	C-3	R3536	E-6
C3513	D-5	R3537	E-6
C3514	C-5	R3538	E-5
C3515	B-1	R3539	B-6
C3516	C-6	R3540	B-6
C3517	B-6	R3541	B-6
C3518	D-4	R3582	A-4
C3519	D-4	R3582	A-4
C3520	E-4	**Adjustment**	
C3521	E-3	VC3516	C-4
C3522	B-5	VC3517	D-4
C3523	F-3	VR3501	F-2

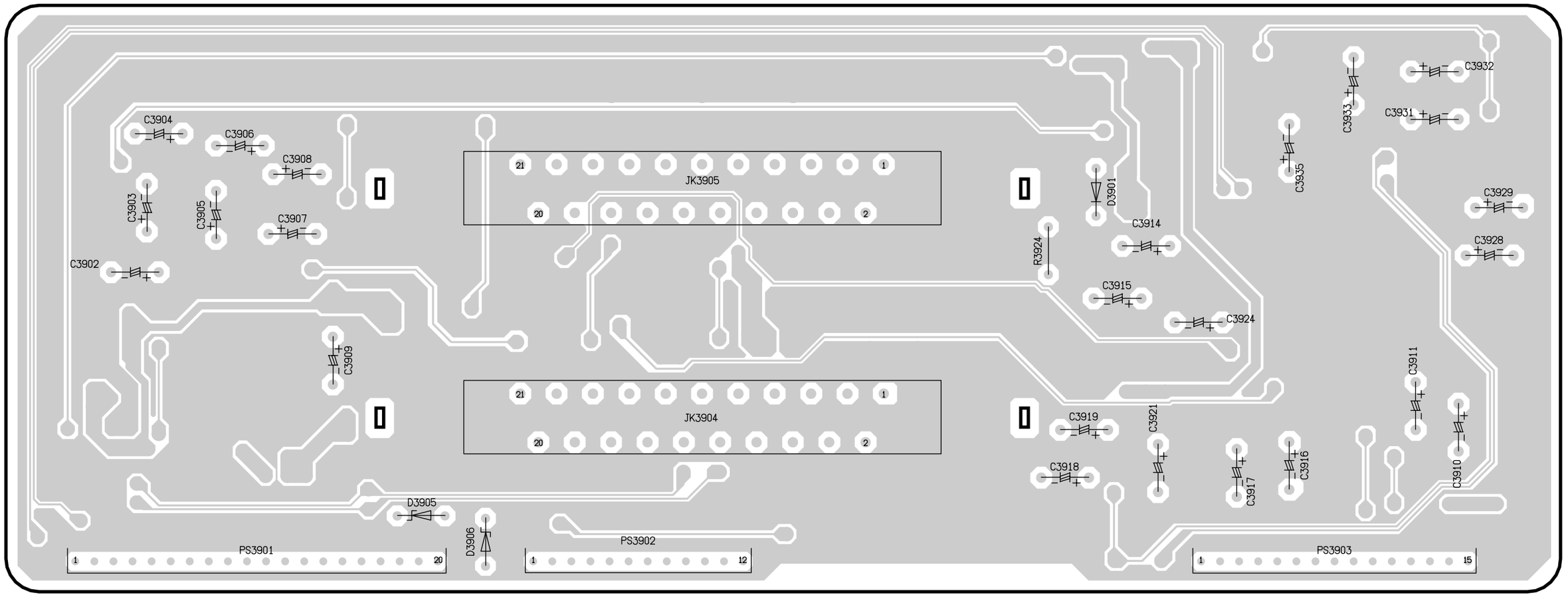
RGB P.C.B.
DMR-E50EB/EG/GCS
(REP3534A)

SCART P.C.B.

Integrated Circuit			PS3901	A-2	C	C3901	C-1	F	C3922	B-4	F	C3956	B-6	F	R3912	C-8	F	R3962	C-3	F	R3986	D-8	F
IC3901	B-8	F	PS3902	A-4	C	C3902	C-2	C	C3923	B-7	F	C3957	C-6	F	R3913	D-8	F	R3963	B-3	F	R3987	A-5	F
IC3902	B-2	F	PS3903	A-8	C	C3903	C-2	C	C3924	B-7	C	C3958	C-6	F	R3914	D-8	F	R3967	B-3	F	R3988	A-6	F
Transistor			**Diode**			C3904	C-2	C	C3925	C-4	F	C3959	C-5	F	R3919	D-8	F	R3968	B-3	F	R3989	A-5	F
Q3901	B-2	F	D3901	C-7	C	C3905	C-2	C	C3928	C-9	C	C3960	C-5	F	R3921	B-4	F	R3969	B-3	F	R3990	A-5	F
Q3905	B-3	F	D3903	B-6	F	C3906	C-2	C	C3929	C-9	C	C3961	C-5	F	R3922	B-5	F	R3970	B-3	F	R3991	C-5	F
Q3906	B-3	F	D3905	A-3	C	C3907	C-2	C	C3930	C-9	F	C3962	C-6	F	R3923	B-6	F	R3972	C-9	F	R3992	C-6	F
Q3908	B-6	F	D3906	A-3	C	C3908	C-2	C	C3931	C-9	C	**Resistor**			R3924	C-6	C	R3973	C-9	F	R3993	C-6	F
Q3909	B-6	F	**Coil**			C3909	B-3	C	C3932	D-9	C	R3901	B-3	F	R3925	B-5	F	R3975	C-7	F	R3994	C-5	F
Q3910	B-6	F	LB3901	B-2	F	C3910	B-9	C	C3933	D-8	C	R3902	B-3	F	R3926	B-5	F	R3976	C-8	F			
Transistor-resistor			LB3907	B-6	F	C3911	B-8	C	C3934	C-8	F	R3903	B-3	F	R3927	B-4	F	R3977	A-6	F			
QR3908	B-3	F	LB3908	B-5	F	C3914	C-7	C	C3935	C-8	C	R3904	C-9	F	R3928	B-3	F	R3978	A-6	F			
QR3909	A-6	F	LB3911	C-5	F	C3915	B-7	C	C3938	C-8	F	R3905	B-2	F	R3929	C-6	F	R3979	B-7	F			
QR3913	B-3	F	LB3912	C-6	F	C3916	B-8	C	C3939	C-8	F	R3906	B-2	F	R3930	C-6	F	R3980	B-7	F			
QR3914	A-1	F	LB3913	C-6	F	C3917	A-8	C	C3951	B-5	F	R3907	B-2	F	R3931	C-5	F	R3981	B-6	F			
QR3915	A-1	F	LB3922	B-1	F	C3918	A-7	C	C3952	B-5	F	R3908	B-9	F	R3932	C-5	F	R3982	B-6	F			
Connector			LB3923	B-1	F	C3919	B-7	C	C3953	A-5	F	R3909	B-9	F	R3933	C-3	F	R3983	B-6	F			
JK3904	B-5	C	LB3925	D-8	F	C3920	B-8	F	C3954	A-6	F	R3910	D-9	F	R3934	C-3	F	R3984	B-6	F			
JK3905	C-5	C	**Capacitor**			C3921	B-7	C	C3955	B-5	F	R3911	C-8	F	R3935	C-4	F	R3985	D-9	F			

ADDRESS INFORMATION
C COMPONENT SIDE
F FOIL SIDE

SCART P.C.B.



(COMPONENT SIDE)

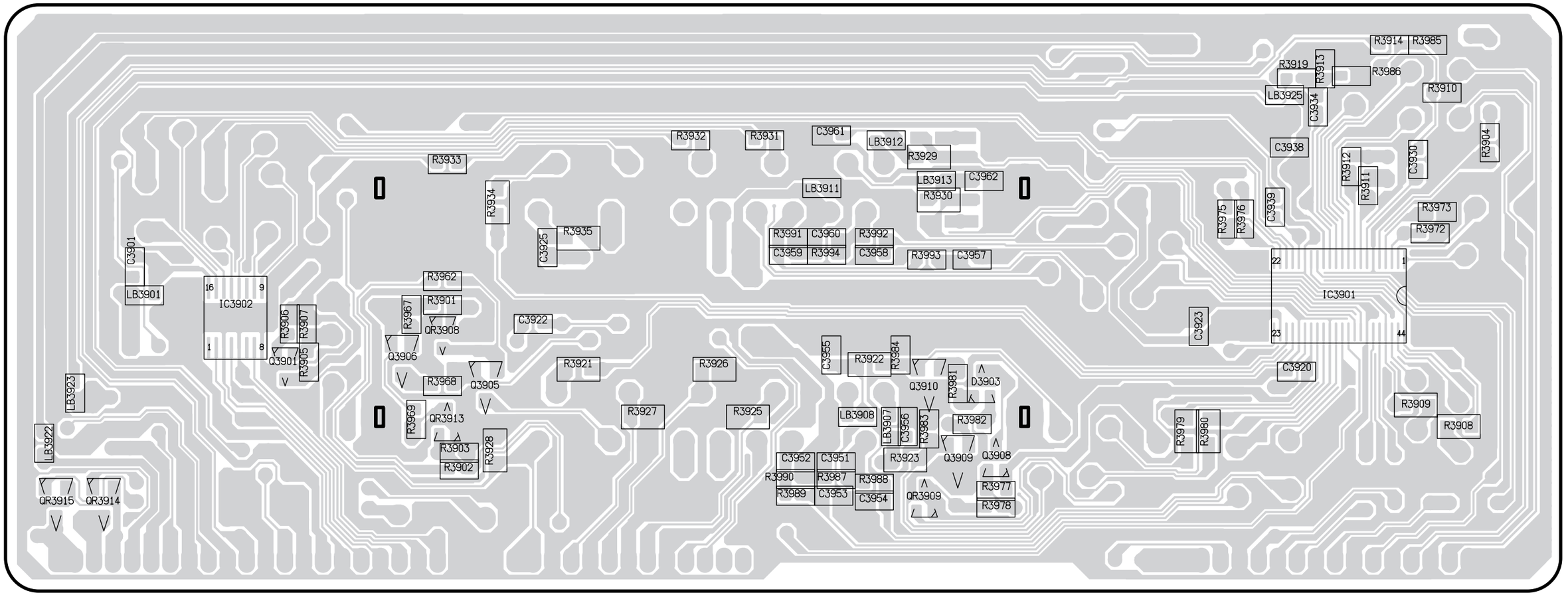
Scart P.C.B. (Component Side)
DMR-E50EB/EG/GCS
(REP3533A)

SCART P.C.B.

Integrated Circuit			PS3901	A-2	C	C3901	C-1	F	C3922	B-4	F	C3956	B-6	F	R3912	C-8	F	R3962	C-3	F	R3986	D-8	F
IC3901	B-8	F	PS3902	A-4	C	C3902	C-2	C	C3923	B-7	F	C3957	C-6	F	R3913	D-8	F	R3963	B-3	F	R3987	A-5	F
IC3902	B-2	F	PS3903	A-8	C	C3903	C-2	C	C3924	B-7	C	C3958	C-6	F	R3914	D-8	F	R3967	B-3	F	R3988	A-6	F
Transistor			**Diode**			C3904	C-2	C	C3925	C-4	F	C3959	C-5	F	R3919	D-8	F	R3968	B-3	F	R3989	A-5	F
Q3901	B-2	F	D3901	C-7	C	C3905	C-2	C	C3928	C-9	C	C3960	C-5	F	R3921	B-4	F	R3969	B-3	F	R3990	A-5	F
Q3905	B-3	F	D3903	B-6	F	C3906	C-2	C	C3929	C-9	C	C3961	C-5	F	R3922	B-5	F	R3970	B-3	F	R3991	C-5	F
Q3906	B-3	F	D3905	A-3	C	C3907	C-2	C	C3930	C-9	F	C3962	C-6	F	R3923	B-6	F	R3972	C-9	F	R3992	C-6	F
Q3908	B-6	F	D3906	A-3	C	C3908	C-2	C	C3931	C-9	C	**Resistor**			R3924	C-6	C	R3973	C-9	F	R3993	C-6	F
Q3909	B-6	F	**Coil**			C3909	B-3	C	C3932	D-9	C	R3901	B-3	F	R3925	B-5	F	R3975	C-7	F	R3994	C-5	F
Q3910	B-6	F	LB3901	B-2	F	C3910	B-9	C	C3933	D-8	C	R3902	B-3	F	R3926	B-5	F	R3976	C-8	F			
Transistor-resistor			LB3907	B-6	F	C3911	B-8	C	C3934	C-8	F	R3903	B-3	F	R3927	B-4	F	R3977	A-6	F			
QR3908	B-3	F	LB3908	B-5	F	C3914	C-7	C	C3935	C-8	C	R3904	C-9	F	R3928	B-3	F	R3978	A-6	F			
QR3909	A-6	F	LB3911	C-5	F	C3915	B-7	C	C3938	C-8	F	R3905	B-2	F	R3929	C-6	F	R3979	B-7	F			
QR3913	B-3	F	LB3912	C-6	F	C3916	B-8	C	C3939	C-8	F	R3906	B-2	F	R3930	C-6	F	R3980	B-7	F			
QR3914	A-1	F	LB3913	C-6	F	C3917	A-8	C	C3951	B-5	F	R3907	B-2	F	R3931	C-5	F	R3981	B-6	F			
QR3915	A-1	F	LB3922	B-1	F	C3918	A-7	C	C3952	B-5	F	R3908	B-9	F	R3932	C-5	F	R3982	B-6	F			
Connector			LB3923	B-1	F	C3919	B-7	C	C3953	A-5	F	R3909	B-9	F	R3933	C-3	F	R3983	B-6	F			
JK3904	B-5	C	LB3925	D-8	F	C3920	B-8	F	C3954	A-6	F	R3910	D-9	F	R3934	C-3	F	R3984	B-6	F			
JK3905	C-5	C	**Capacitor**			C3921	B-7	C	C3955	B-5	F	R3911	C-8	F	R3935	C-4	F	R3985	D-9	F			

ADDRESS INFORMATION
C COMPONENT SIDE
F FOIL SIDE

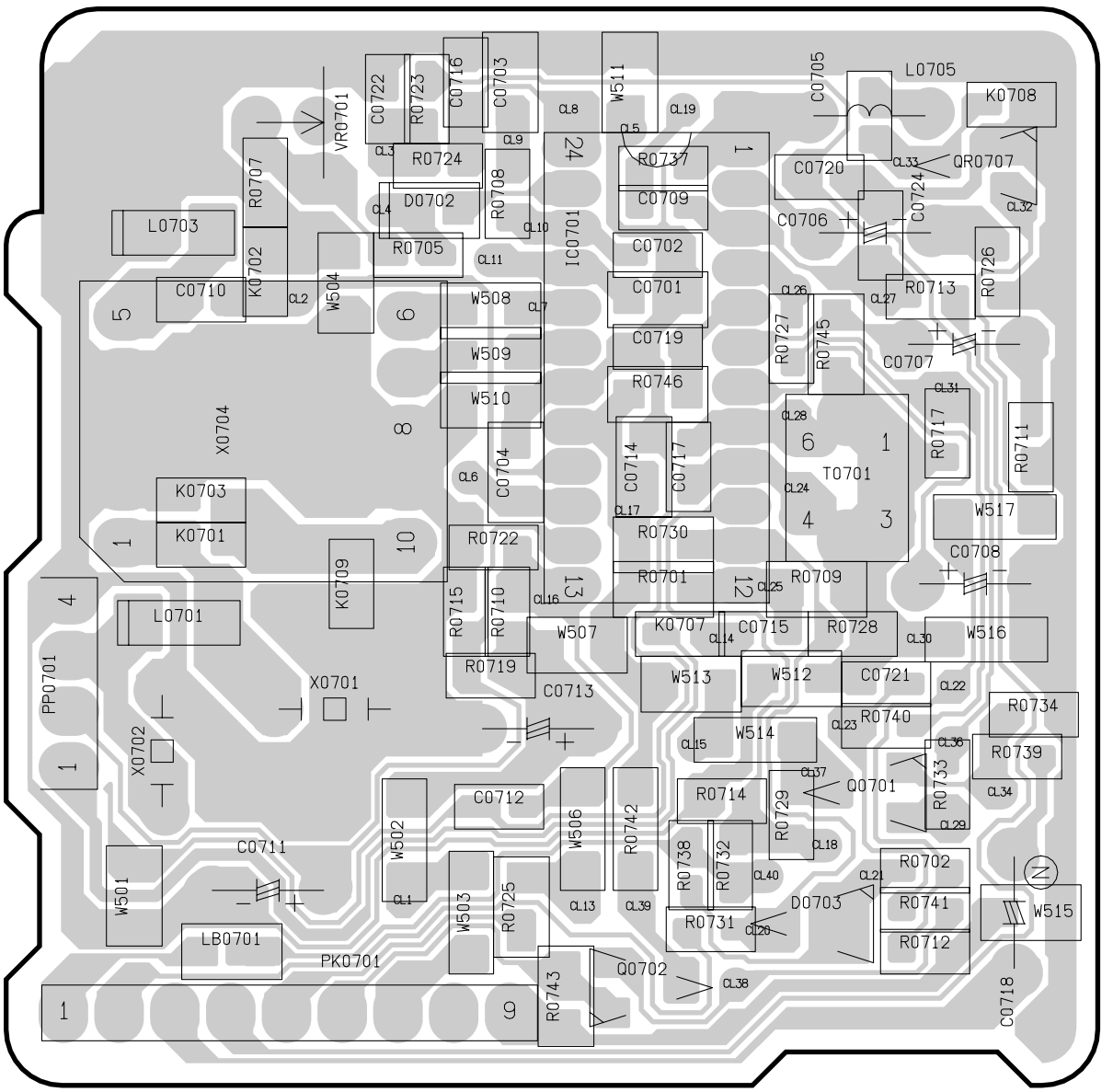
SCART P.C.B.



(FOIL SIDE)

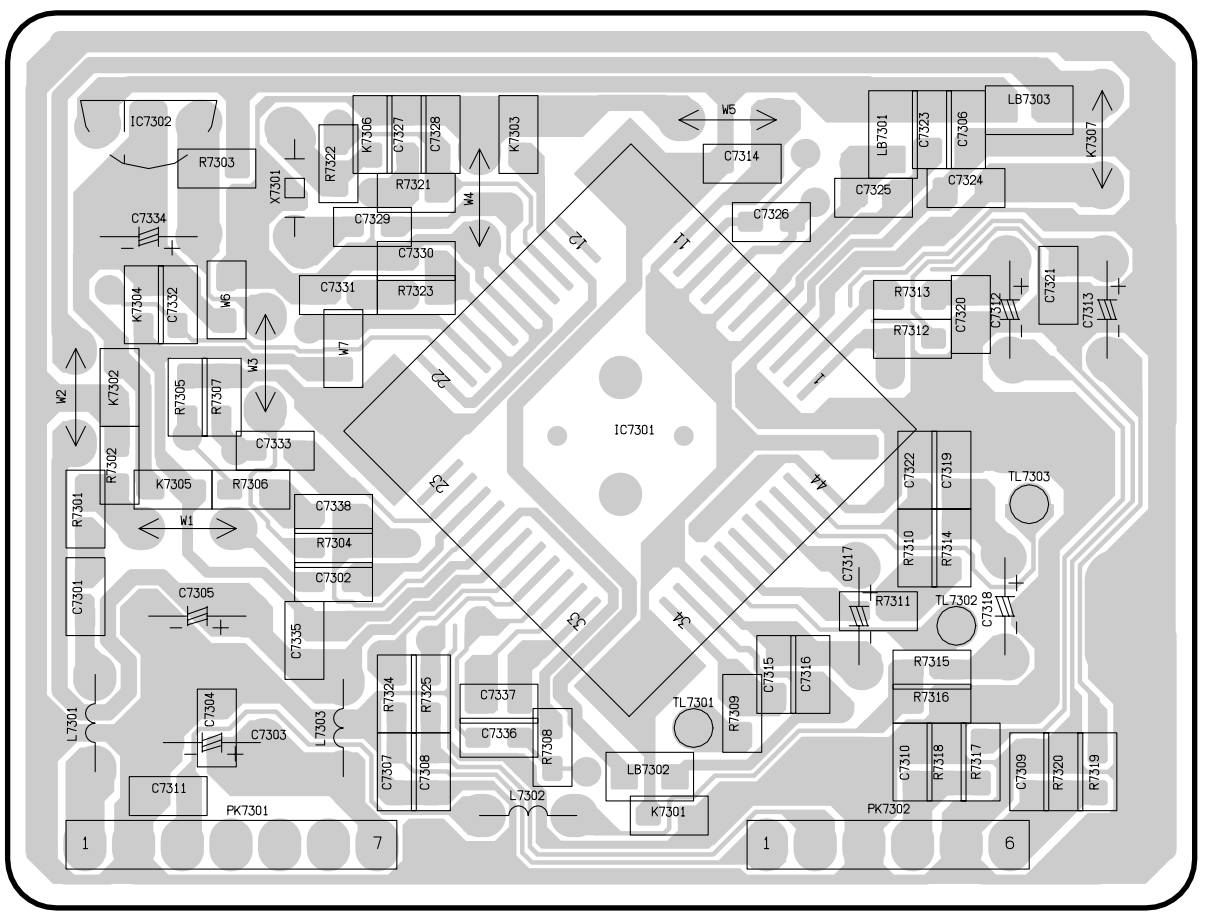
Scart P.C.B. (Foil Side)
DMR-E50EB/EG/GCS
(REP3533A)

VIF Decoder P.C.B.



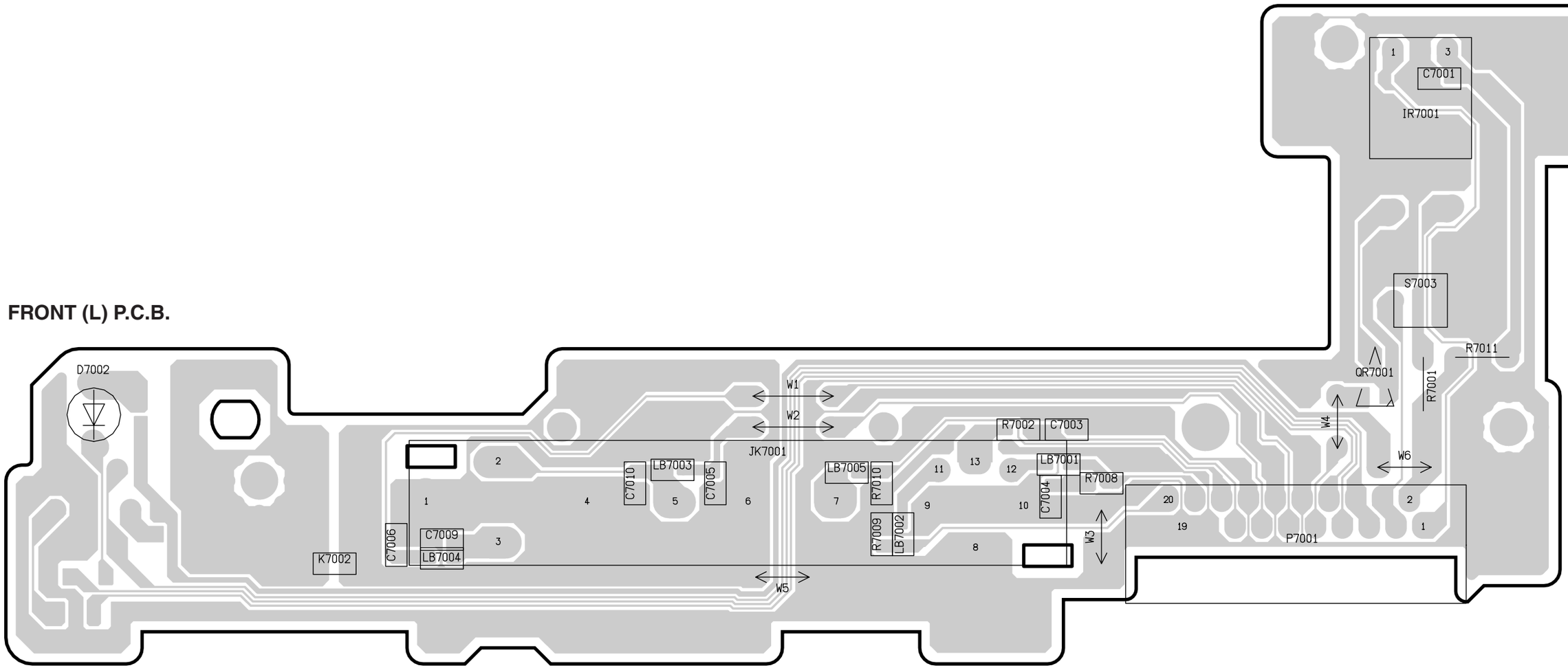
VIF Decoder P.C.B.
VEP07A23Y: DMR-50EG/GCS
VEP07A23Z: DMR-E50EB

Nicam/Decoder P.C.B.



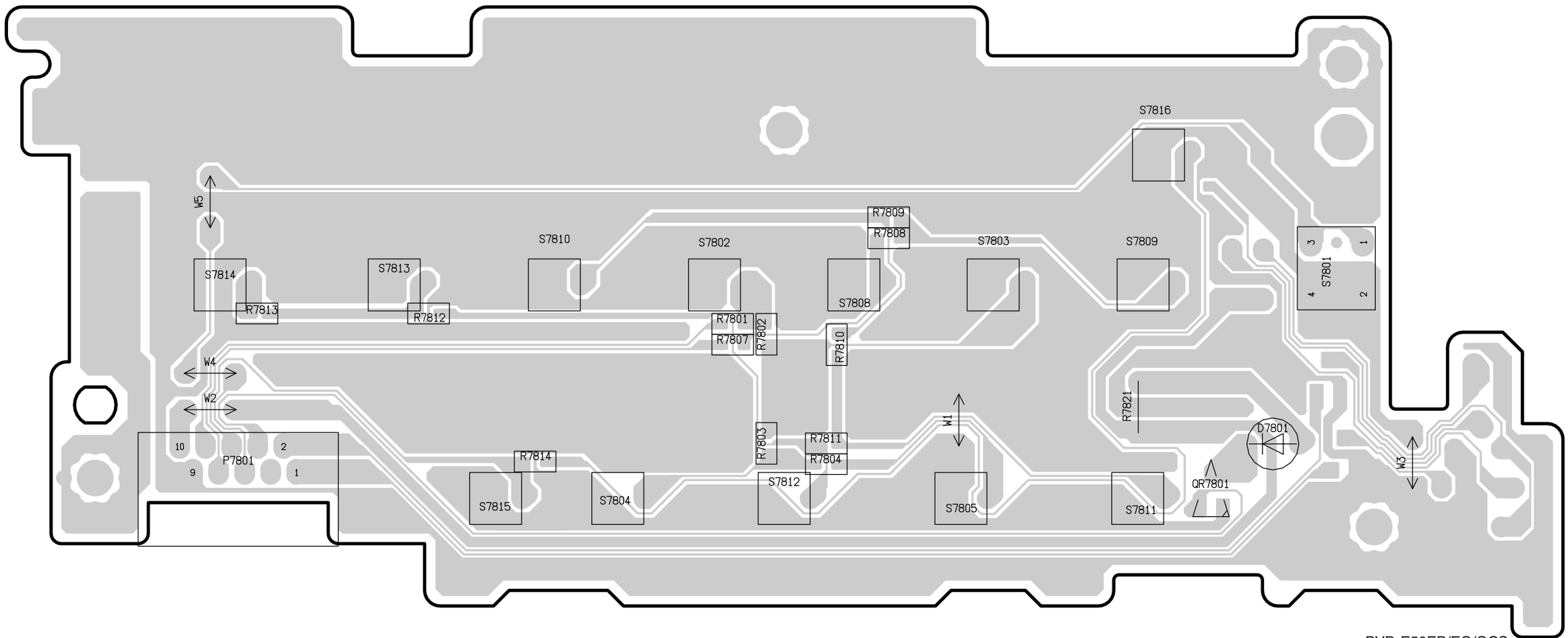
Nicam/Decoder P.C.B. (VEP07A51A)
DMR-50EB/EG/GCS

FRONT (L) P.C.B.



DVD-E50EB/EG/GCS
FRONT (L) P.C.B.
(REP3528CB)

FRONT (R) P.C.B.



DVD-E50EB/EG/GCS
FRONT (R) P.C.B.
(REP3528AA)

15.2.5. Main P.C.B. Address Information

15.3. Digital P.C.B.

15.3.1. Digital P.C.B. (Section 1/2)

15.3.2. Digital P.C.B. (Section 2/2)

15.3.3. Digital P.C.B. Address Information

15.4. RGB P.C.B.

15.5. Scart P.C.B.

15.5.1. Scart P.C.B. (Section 1/2)

15.5.2. Scart P.C.B. (Section 2/2)

15.6. VIF Decoder P.C.B.

15.7. Nicam/Decoder P.C.B.

15.8. Front (L) P.C.B.

15.9. Front (R) P.C.B.

16. Exploded Views

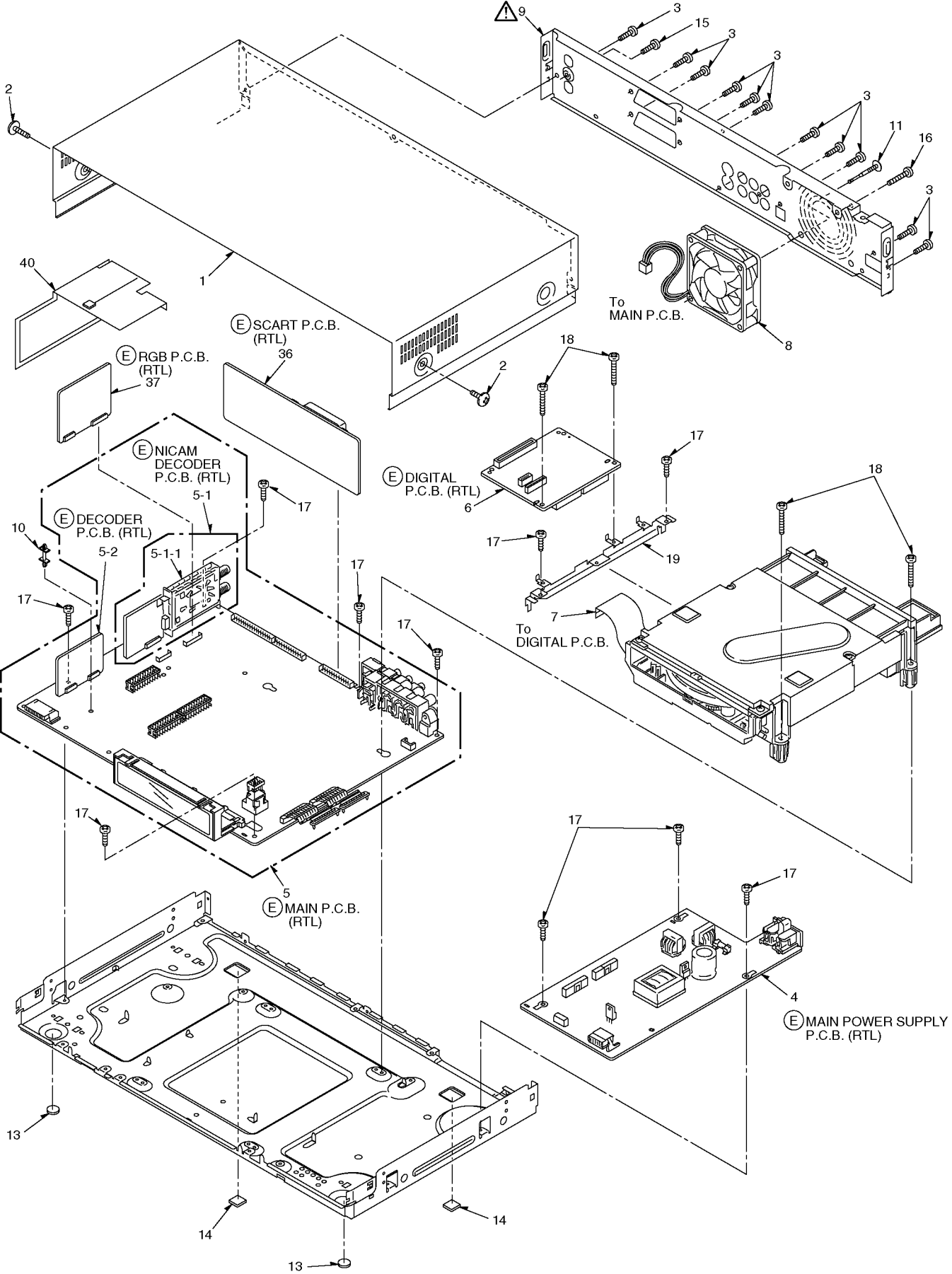
16.1. Casing Parts & Mechanism Section 1

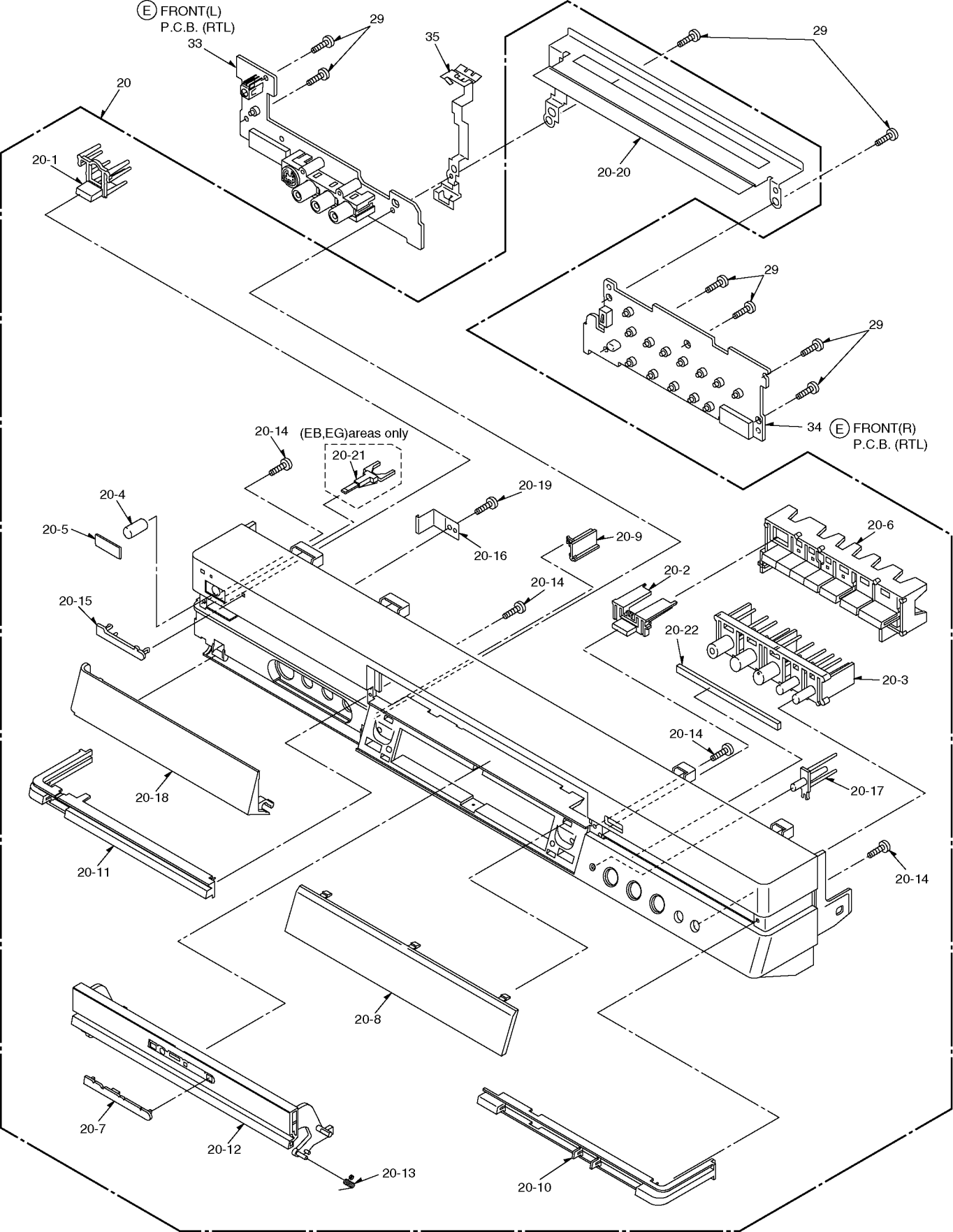
16.2. Casing Parts & Mechanism Section 2

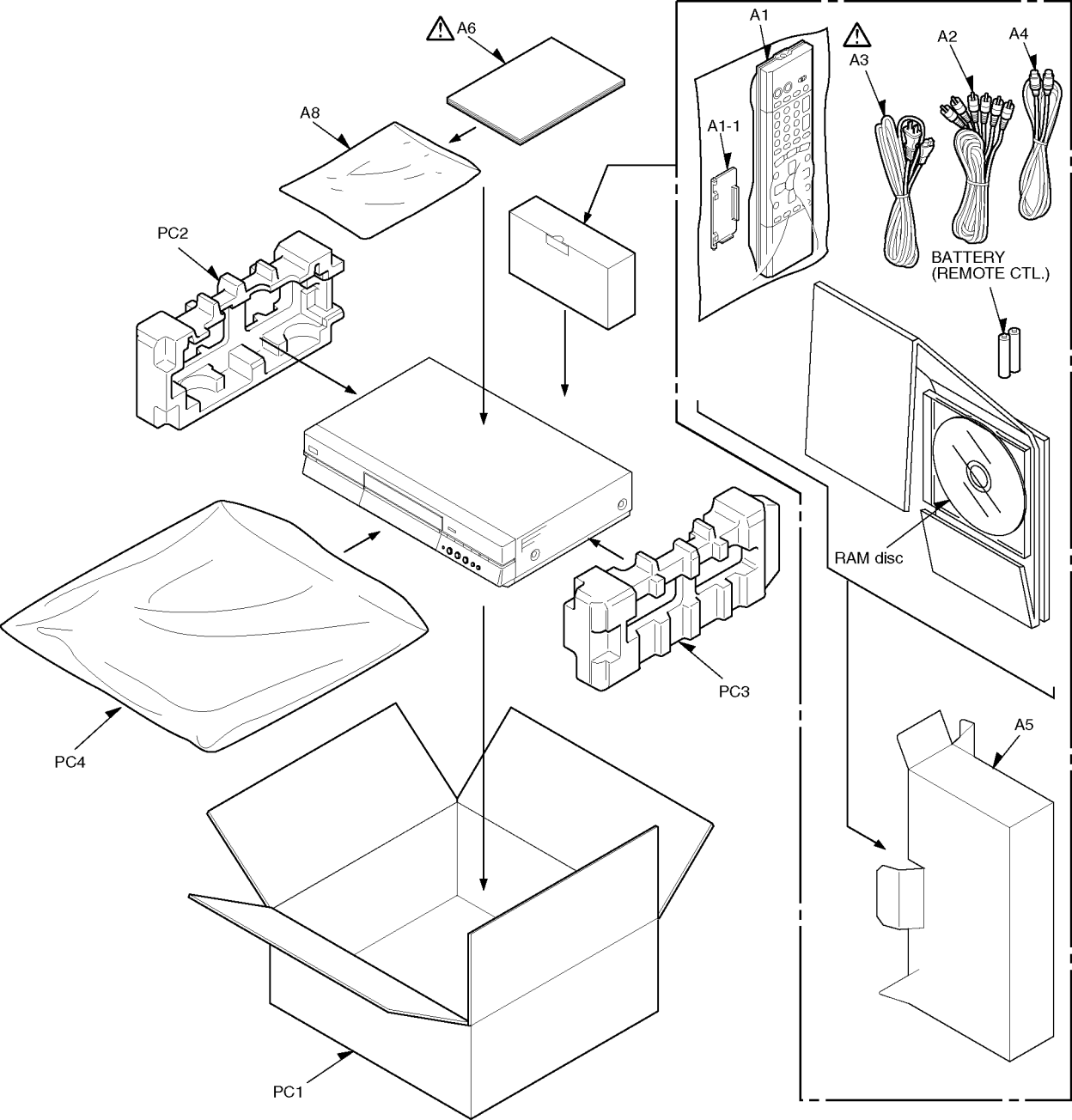
16.3. Packing & Accessories Section

17. Replacement Parts List

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 manufactures specified parts shown in the parts list.


9
3
15
3
3
3
11
16
3
2
1
40
To
MAIN P.C.B.
8
E SCART P.C.B.
(RTL)
E RGB P.C.B.
(RTL)
36
37
2
18
17
E NICAM
DECODER
P.C.B. (RTL)
E DIGITAL
P.C.B. (RTL)
6
5-1
17
E DECODER
P.C.B. (RTL)
10
5-2
5-1-1
17
19
18
17
17
17
7
To
DIGITAL P.C.B.
17
5
E MAIN P.C.B.
(RTL)
17
17
4
E MAIN POWER SUPPLY
P.C.B. (RTL)
13
14
14
13


E FRONT(L)
P.C.B. (RTL)
33
29
35
20
20-1
29
20-20
29
29
34
E FRONT(R)
P.C.B. (RTL)
20-14
(EB,EG)areas only
20-21
20-19
20-16
20-4
20-5
20-9
20-6
20-2
20-14
20-15
20-22
20-3
20-14
20-18
20-17
20-11
20-14
20-8
20-7
20-12
20-13
20-10


A6
A8
PC2
A1
A1-1
A3
A2
A4
BATTERY
(REMOTE CTL.)
RAM disc
PC3
PC4
A5
PC1

***Warning: This product uses a laser diode. Refer to caution statements.**
***Capacity values are in microfarads (μ 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, <IE>: English/ Chinese]**
All parts are supplied by S.P.C..

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
~	01	CASING/ACCESSORY/PACKING		
1	RKM0485-S	TOP COVER	1	
2	SNE2129-4	SCREW	2	
3	VHD0690	SCREW	11	
4	ETXMM444E4G	POWER SUPPLY P.C.B.	1	(RTL) ⚠
5	REP3532A	MAIN P.C.B.	1	(RTL)(EG/GCS)
5	REP3532B	MAIN P.C.B.	1	(RTL)(EB)
5-1	VEP07A23Y	VIF DECODER P.C.B.	1	(RTL)(EG/GCS)
5-1	VEP07A23Z	VIF DECODER P.C.B.	1	(RTL)(EB)
5-1-1	VMP5897	VIF ANGLE	1	
5-2	VEP07A51A	NICAM DECODER P.C.B.	1	(RTL)
6	REP3496A	DIGITAL P.C.B.	1	(RTL)(EB)
6	REP3496C	DIGITAL P.C.B.	1	(RTL)(EG)
6	REP3496CD	DIGITAL P.C.B.	1	(RTL)(GCS)
7	VWJ1650	FFC(40P)	1	
8	L6FALCCE0001	FAN MOTOR	1	
9	RGR0337C-A	REAR PANEL	1	(EG) ⚠
9	RGR0337C-B	REAR PANEL	1	(EB) ⚠
9	RGR0337C-F	REAR PANEL	1	(GCS) ⚠
10	RMX0244	PCB HOLDER	1	
11	RMR1529-K	RIVET	1	
13	RKA0143-K	LEG	2	
14	RKA0144-K	FOOT RUBBER	2	
15	XSN3+4FZ	SCREW	1	
16	XTN3+23JFZ	SCREW	1	
17	XTN3+7F-C	SCREW	10	
18	RHD30106	SCREW	4	
19	RMA1640	DIGITAL ANGLE	1	
20	RYP1183B-S	FRONT PANEL ASS'Y1	1	(EG)
20	RYP1183C-S	FRONT PANEL ASS'Y1	1	(EB)
20	RYP1183D-S	FRONT PANEL ASS'Y1	1	(GCS)
20-1	RGU2185B-K	POWER BUTTON	1	
20-2	RGU2186-S	OPEN BUTTON	1	
20-3	RGU2188-S	OPERATION BUTTON	1	
20-4	RGQ0327-Q	IR WINDOW GUIDE	1	
20-5	RKW0724-S	IR WINDOW	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
20-6	RGU2187B-K	CHANNEL BUTTON	1	
20-7	RGB0146-S	DVD RECORDING BADGE	1	
20-8	RGK1643-Q1	FL ORNAMENT	1	
20-9	RMR1526-H	SHAFT HOLDER	1	
20-10	RGK1623-K	FRONT ORNAMENT(R)	1	
20-11	RGK1622A-K	FRONT ORNAMENT(L)	1	
20-12	RKF0668-S	TRAY DOOR	1	
20-13	VMB3410	BLINDER SPRING	1	
20-14	XTN2+6G	SCREW	4	
20-15	VGB0560	PANASONIC BADGE	1	
20-16	RMC0539	DOOR SPRING	1	
20-17	RGL0620-Q	LIGHTING PIECE	1	
20-18	RKF0666B-S	PANEL DOOR	1	(EG)
20-18	RKF0666C-S	PANEL DOOR	1	(EB)
20-18	RKF0666G-S	PANEL DOOR	1	(GCS)
20-19	XTBS26+8J	SCREW	1	
20-20	RMA1639	FRONT ANGLE	1	
20-21	RGL0626-Q	POWER PIECE	1	(EB)(EG)
20-22	RMX0253	DAMPER SHEET	1	
29	XTBS26+10J	SCREW	8	
33	REP3528CB	FRONT(L)P.C.B.	1	(RTL)
34	REP3528AA	FRONT(R)P.C.B.	1	(RTL)
35	RMC0549	EARTH PLATE(A)	1	
36	REP3533A	SCART P.C.B.	1	(RTL)
37	REP3534A	RGB P.C.B.	1	(RTL)
40	RSC0672-2	DIGITAL BARRIER	1	
A1	EUR7615KP0	REMOTE CONTROL ASS'Y	1	(EG)
A1	EUR7615KR0	REMOTE CONTROL ASS'Y	1	(EB)
A1	EUR7615KX0	REMOTE CONTROL ASS'Y	1	(GCS)
A1-1	UR76EC1503A	BATTERY COVER	1	
A2	K2KA6CA00001	A/V CORD	1	
A3	RJA0053-3X	AC CORD	1	(EB) ⚠
A3	VJA0664	AC CORD	1	K2CR2DA00004 (GCS) ⚠
A3	VJA1059	AC CORD	1	K2CQ2DA00001 (EG) ⚠
A4	VJA1089	RF COAXIAL CABLE	1	K1TWACC00001
A5	RPQF0238	ACCESSORY CASE	1	
A6	RQT6991-E	OPERATING INSTRUCTIONS	1	<IA>(EG) ⚠
A6	RQT6992-D	OPERATING INSTRUCTIONS	1	<IB>(EG) ⚠
A6	RQT6994-H	OPERATING INSTRUCTIONS	1	<IC>(EG) ⚠
A6	RQT6995-Z	OPERATING INSTRUCTIONS	1	<ID>(EG) ⚠
A6	RQT6996-B	OPERATING INSTRUCTIONS	1	<IE>(EB) ⚠
A6	RQT6998-G	OPERATING INSTRUCTIONS	1	<IF>(GCS) ⚠
A8	XZB25X34C03X	POLYETHYLENE BAG	1	
PC1	RPG6499	PACKING CASE	1	(EG)
PC1	RPG6500	PACKING CASE	1	(EB)
PC1	RPG6551	PACKING CASE	1	(GCS)
PC2	RPN1607A	CUSHION(L)	1	
PC3	RPN1607B	CUSHION(R)	1	
PC4	VPF0505	POLYETHYLENE BAG	1	
~	02	VEP07A23Z		

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C0701	ECJ2XF1C105Z	16V 1U	1	ECJ2VF1C105Z (EB)
C0702	ECJ1VB1H102K	50V 1000P	1	(EB)
C0703	ECJ2YB1A105K	10V 1U	1	(EB)
C0704	ECJ2VB1E333K	25V 0.033U	1	(EB)
C0707	ECEA1HKS2R2	50V 2.2U	1	(EB)
C0708	ECEA1HKAR47B	50V 0.47U	1	(EB)
C0710	ECJ1VF1H103Z	50V 0.01U	1	(EB)
C0711	ECEA1CKS220	16V 22U	1	(EB)
C0712	ECJ1VF1C104Z	16V 0.1U	1	(EB)
C0713	ECEA0JKS331	6.3V 330U	1	(EB)
C0714	ECJ2XF1C105Z	16V 1U	1	ECJ2VF1C105Z (EB)
C0715	ECJ1VC1H120J	50V 12P	1	(EB)
C0717	ECUM1H330GU	50V 33U	1	(EB)
C0719	ECJ1XF1E104Z	25V 0.1U	1	F1H1E104A030 (EB)
C0721	ECUV1H390JCV	50V 39P	1	ECJ1VC1H390J (EB)
C0724	ECUV1H331KBV	50V 330P	1	ECJ1VB1H331K (EB)
D0702	ERJ6GEY0R00V	1/10W 0	1	(EB)
IC0701	LA75503	IC	1	C1AA00000606 (EB)
K0703	ERJ3GEY0R00V	1/16W 0	1	(EB)
K0707	ERJ3GEY0R00V	1/16W 0	1	(EB)
K0709	ERJ3GEY0R00V	1/16W 0	1	(EB)
L0701	ELJNAR22JF	COIL 22UH	1	(EB)
L0703	ELJNA1R8JF	COIL 1.8UH	1	(EB)
PK0701	VJR0826E009W	CONNECTOR(9P)	1	K1MR09A00028 (EB)
PP0701	VJP3589E004B	CONNECTOR(4P)	1	K1KA04B00135 (EB)
Q0702	2SD0601ASL	TRANSISTOR	1	(EB)
R0701	ERJ6GEYJ104V	1/10W 100K	1	(EB)
R0705	ERJ3GEYJ472V	1/16W 4.7K	1	(EB)
R0707	ERJ3GEYJ393V	1/16W 39K	1	D0GB393JA002 (EB)
R0708	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EB)
R0711	ERJ3GEYJ181V	1/16W 180	1	(EB)
R0713	ERJ3GEY0R00V	1/16W 0	1	(EB)
R0715	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 (EB)
R0717	ERJ3GEYJ471V	1/16W 470	1	(EB)
R0719	ERJ3GEYJ472V	1/16W 4.7K	1	(EB)
R0725	ERJ6GEYJ101V	1/10W 100	1	(EB)
R0727,28	ERJ3GEY0R00V	1/16W 0	2	(EB)
R0729	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EB)
R0740	ERJ3GEYG102	1/16W 1K	1	(EB)
R0741	ERJ3GEYJ221V	1/16W 220	1	(EB)
R0742	ERJ8GEYJ151V	1/8W 150	1	(EB)
R0745	ERJ6GEYJ335V	1/10W 3.3M	1	(EB)
T0701	EQV5EC083P	TRANSFORMER	1	(EB) ⚠
VR0701	EVNCYAA03B14	VR	1	(EB)
W501	ERJ6GEY0R00V	1/10W 0	1	(EB)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
W502,03	ERJ8GEY0R00V	1/8W 0	2	(EB)
W504	ERJ6GEY0R00V	1/10W 0	1	(EB)
W506	ERJ8GEY0R00V	1/8W 0	1	(EB)
W507-13	ERJ6GEY0R00V	1/10W 0	7	(EB)
W514	ERJ8GEY0R00V	1/8W 0	1	(EB)
W515	ERJ6GEY0R00V	1/10W 0	1	(EB)
W516,17	ERJ8GEY0R00V	1/8W 0	2	(EB)
X0701	VLF1417	FILTER	1	J0B4155A0003 (EB)
X0704	VLF1495	CRYSTAL OSCILLATOR	1	(EB)
~	03	VEP07A23Y		
C0701	ECJ2XF1C105Z	16V 1U	1	ECJ2VF1C105Z (EG/GCS)
C0702	ECJ1VB1H102K	50V 1000P	1	(EG/GCS)
C0703	ECJ2YB1A105K	10V 1U	1	(EG/GCS)
C0704	ECJ2VB1E333K	25V 0.033U	1	(EG/GCS)
C0707	ECEA1HKS2R2	50V 2.2U	1	(EG/GCS)
C0708	ECEA1HKAR47B	50V 0.47U	1	(EG/GCS)
C0710	ECJ1VF1H103Z	50V 0.01U	1	(EG/GCS)
C0711	ECEA1CKS220	16V 22U	1	(EG/GCS)
C0712	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C0713	ECEA0JKS331	6.3V 330U	1	(EG/GCS)
C0714	ECJ2XF1C105Z	16V 1U	1	ECJ2VF1C105Z (EG/GCS)
C0715	ECJ1VC1H030C	50V 3P	1	(EG/GCS)
C0717	ECUM1H330GU	50V 33U	1	(EG/GCS)
C0719	ECJ1XF1E104Z	25V 0.1U	1	F1H1E104A030 (EG/GCS)
C0721	ECUV1H390JCV	50V 39P	1	ECJ1VC1H390J (EG/GCS)
C0724	ECJ1VB1H221K	50V 220P	1	(EG/GCS)
D0702	ERJ6GEY0R00V	1/10W 0	1	(EG/GCS)
IC0701	LA75503	IC	1	C1AA00000606 (EG/GCS)
K0701	ECUV1H680JCV	50V 68P	1	ECJ1VC1H680J (EG/GCS)
K0703	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
K0707	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
K0709	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
L0701	VLQ0163JR33	COIL 33UH	1	G1CR33J00002 (EG/GCS)
L0703	ELJNA2R2JF	COIL 2.2UH	1	(EG/GCS)
PK0701	VJR0826E009W	CONNECTOR(9P)	1	K1MR09A00028 (EG/GCS)
PP0701	VJP3589E004B	CONNECTOR(4P)	1	K1KA04B00135 (EG/GCS)
Q0702	2SD0601ASL	TRANSISTOR	1	(EG/GCS)
R0705	ERJ3GEYJ472V	1/16W 4.7K	1	(EG/GCS)
R0707	ERJ3GEYJ393V	1/16W 39K	1	D0GB393JA002 (EG/GCS)
R0708	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EG/GCS)
R0711	ERJ3GEYJ181V	1/16W 180	1	(EG/GCS)
R0713	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
R0715	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 (EG/GCS)
R0717	ERJ3GEYJ471V	1/16W 470	1	(EG/GCS)
R0719	ERJ3GEYJ472V	1/16W 4.7K	1	(EG/GCS)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R0725	ERJ6GEYJ101V	1/10W 100	1	(EG/GCS)
R0727	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
R0729	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EG/GCS)
R0730	ERJ6GEYJ103V	1/10W 10K	1	(EG/GCS)
R0740	ERJ3GEYG102	1/16W 1K	1	(EG/GCS)
R0741	ERJ3GEYJ221V	1/16W 220	1	(EG/GCS)
R0742	ERJ8GEYJ151V	1/8W 150	1	(EG/GCS)
R0745	ERJ6GEYJ335V	1/10W 3.3M	1	(EG/GCS)
T0701	EQV5EC082P	TRANSFORMER	1	(EG/GCS) ⚠
VR0701	EVNCYAA03B14	VR	1	(EG/GCS)
W501	ERJ6GEY0R00V	1/10W 0	1	(EG/GCS)
W502,03	ERJ8GEY0R00V	1/8W 0	2	(EG/GCS)
W504	ERJ6GEY0R00V	1/10W 0	1	(EG/GCS)
W506	ERJ8GEY0R00V	1/8W 0	1	(EG/GCS)
W507-13	ERJ6GEY0R00V	1/10W 0	7	(EG/GCS)
W514	ERJ8GEY0R00V	1/8W 0	1	(EG/GCS)
W515	ERJ6GEY0R00V	1/10W 0	1	(EG/GCS)
W516,17	ERJ8GEY0R00V	1/8W 0	2	(EG/GCS)
X0701	VLF1416	FILTER	1	J0B4045A0002 (EG/GCS)
X0704	VLF1493	CRYSTAL OSCILLATOR	1	(EG/GCS)
~	04	REP3532B		
C1502	F2A1E221A210	25V 220U	1	(EB)
C1503,04	F2A1A471A211	10V 470U	2	(EB)
C1505,06	F2A0J471A256	6.3V 470U	2	(EB)
C1508,09	F2A0J470A012	6.3V 47U	2	(EB)
C1512	F2A1E4700048	25V 47U	1	(EB)
C1514	F2A0J470A012	6.3V 47U	1	(EB)
C1528	ECJ1VB1C104K	16V 0.1U	1	(EB)
C1530	F2A1E4700048	25V 47U	1	(EB)
C1531,32	ECJ1VB1C104K	16V 0.1U	2	(EB)
C3001	ECJ1VB1H103K	50V 0.01U	1	(EB)
C3002	ECEA0JKN470	6.3V 47U	1	(EB)
C3003	ECJ1VB1H103K	50V 0.01U	1	(EB)
C3004	ECEA0JKS470	6.3V 47U	1	(EB)
C3005	ECJ1VB1H103K	50V 0.01U	1	(EB)
C3006	ECEA0JKS101	6.3V 100U	1	(EB)
C3007-14	ECJ1VB1H103K	50V 0.01U	8	(EB)
C3015	ECJ1VB1H473K	50V 0.047U	1	(EB)
C3016-19	ECJ1VB1H103K	50V 0.01U	4	(EB)
C3020	ECEA0JKS101	6.3V 100U	1	(EB)
C3021-24	ECJ1VB1H103K	50V 0.01U	4	(EB)
C3025	ECJ1VB1C104K	16V 0.1U	1	(EB)
C3026	ECJ1VB1H103K	50V 0.01U	1	(EB)
C3027	ECJ1VB1C104K	16V 0.1U	1	(EB)
C3028	ECJ1VB1H103K	50V 0.01U	1	(EB)
C3029	ECEA0JKS470	6.3V 47U	1	(EB)
C3030,31	ECEA0JKN470	6.3V 47U	2	(EB)
C3032	ECJ1VC1H560J	50V 56P	1	(EB)
C3033	ECJ1VB1C104K	16V 0.1U	1	(EB)
C3034	ECEA1HSN010	50V 1U	1	(EB)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3035-37	ECJ1VB1H103K	50V 0.01U	3	(EB)
C3038	ECEA1AKS221	10V 220U	1	(EB)
C3039	ECJ1VB1H103K	50V 0.01U	1	(EB)
C3040	ECEA0JKS101	6.3V 100U	1	(EB)
C3041	ECJ1VB1C104K	16V 0.1U	1	(EB)
C3042-44	ECEA0JKN470	6.3V 47U	3	(EB)
C3045	ECA0JM102	6.3V 1000U	1	(EB)
C3046	ECEA0JKS101	6.3V 100U	1	(EB)
C3047	ECA0JM102	6.3V 1000U	1	(EB)
C3048	ECEA0JKS101	6.3V 100U	1	(EB)
C3049,50	ECJ1VB1C104K	16V 0.1U	2	(EB)
C3051	ECJ1VC1H560J	50V 56P	1	(EB)
C3052	ECJ1VB1C104K	16V 0.1U	1	(EB)
C3053	ECEA0JKN470	6.3V 47U	1	(EB)
C3054	ECJ1VB1C104K	16V 0.1U	1	(EB)
C3056	ECUV1H471JCV	50V 470P	1	ECJ1VC1H471J (EB)
C3058	ECUV1H471JCV	50V 470P	1	ECJ1VC1H471J (EB)
C3059	ECJ1VB1C104K	16V 0.1U	1	(EB)
C3060,61	ECJ1VC1H470J	50V 47P	2	(EB)
C3063	ECJ1VB1C104K	16V 0.1U	1	(EB)
C3067	ECJ1VB1H103K	50V 0.01U	1	(EB)
C3068	ECJ1VC1H150J	50V 15P	1	(EB)
C3069	ECJ1XC1H180J	50V 18P	1	ECJ1VC1H180J (EB)
C3070	ECEA0JKS470	6.3V 47U	1	(EB)
C4001,02	F2A1H4R7A236	50V 4.7U	2	(EB)
C4003,04	ECJ1VB1H103K	50V 0.01U	2	(EB)
C4005-07	F2A1H1R0A236	50V 1U	3	(EB)
C4008	F2A1C221A019	16V 220U	1	(EB)
C4010	F2A1H1R0A236	50V 1U	1	(EB)
C4011	F2A1H100A236	50V 10U	1	(EB)
C4012	ECJ2VB1E104K	25V 0.1U	1	(EB)
C4013	F2A1H1R0A236	50V 1U	1	(EB)
C4014	F2A1H100A236	50V 10U	1	(EB)
C4015	F2A1H1R0A236	50V 1U	1	(EB)
C4017	F2A1H100A236	50V 10U	1	(EB)
C4018	F2A1H4R7A236	50V 4.7U	1	(EB)
C4019	F2A1C100A019	16V 10U	1	(EB)
C4020	ECJ2VB1E104K	25V 0.1U	1	(EB)
C4021	F2A1C100A019	16V 10U	1	(EB)
C4022	ECJ1VB1C104K	16V 0.1U	1	(EB)
C4023	F2A1H1R0A236	50V 1U	1	(EB)
C4024	F2A1C471A236	16V 470U	1	(EB)
C4025	F2A1H1R0A236	50V 1U	1	(EB)
C4026	ECJ1VF1C104Z	16V 0.1U	1	(EB)
C4027	F2A1H1R0A236	50V 1U	1	(EB)
C4028	ECJ1VB1H103K	50V 0.01U	1	(EB)
C4029	F2A1C102A236	16V 1000U	1	(EB)
C4030	ECJ1VF1C104Z	16V 0.1U	1	(EB)
C4031	F2A1H1R0A236	50V 1U	1	(EB)
C4033,34	F2A1C4700011	16V 47U	2	(EB)
C4052	ECJ1VF1C104Z	16V 0.1U	1	(EB)
C4053	ECJ1VB1C104K	16V 0.1U	1	(EB)
C4054	F2A0J470A179	6.3V 47U	1	(EB)
C4055	ECJ1VF1C104Z	16V 0.1U	1	(EB)
C4056	F2A0J471A247	6.3V 470U	1	(EB)
C4057	ECUV1H680JCG	50V 68P	1	ECJ2VC1H680J (EB)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4059	ECJ1VF1C104Z	16V 0.1U	1	(EB)
C4060	ECUV1H680JCG	50V 68P	1	ECJ2VC1H680J (EB)
C4061	ECJ1VF1C104Z	16V 0.1U	1	(EB)
C4062	ECA1AM221	10V 220U	1	(EB)
C4063,64	F2A1C4700011	16V 47U	2	(EB)
C4065	ECJ1VF1C104Z	16V 0.1U	1	(EB)
C4067	F2A0J470A179	6.3V 47U	1	(EB)
C4069	ECJ1VF1C104Z	16V 0.1U	1	(EB)
C4070	ECA1AM221	10V 220U	1	(EB)
C4072	ECA1AM221	10V 220U	1	(EB)
C4074,75	ECJ1VF1C104Z	16V 0.1U	2	(EB)
C4076	F2A1C471A236	16V 470U	1	(EB)
C4077	ECJ1VF1C104Z	16V 0.1U	1	(EB)
C4082,83	ECJ2VC1H102J	50V 1000P	2	(EB)
C4091	ECJ1VF1C104Z	16V 0.1U	1	(EB)
C4092	F2A1C221A019	16V 220U	1	(EB)
C7401	F2A1C471A236	16V 470U	1	(EB)
C7402	ECJ1VB1H103K	50V 0.01U	1	(EB)
C7403,04	ECEA0JKS470	6.3V 47U	2	(EB)
C7405,06	ECJ1VB1C104K	16V 0.1U	2	(EB)
C7407	ECJ1VB1H103K	50V 0.01U	1	(EB)
C7408	ECJ1VB1C104K	16V 0.1U	1	(EB)
C7409,10	ECJ1VB1H103K	50V 0.01U	2	(EB)
C7413	ECEA0JKS470	6.3V 47U	1	(EB)
C7414	ECEA1HKS010	50V 1U	1	(EB)
C7415-17	ECEA0JKS470	6.3V 47U	3	(EB)
C7418,19	ECJ1VC1H330J	50V 33P	2	(EB)
C7420	ECJ1VB1C104K	16V 0.1U	1	(EB)
C7421,22	ECJ1VB1H103K	50V 0.01U	2	(EB)
C7424	ECEA0JKS470	6.3V 47U	1	(EB)
C7426	ECJ1VB1C104K	16V 0.1U	1	(EB)
C7427	ECJ1VB1H222K	50V 2200P	1	(EB)
C7428	ECJ2VB1H103K	50V 0.01U	1	(EB)
C7429	ECJ1VB1H332K	50V 3300P	1	(EB)
C7439	ECJ1VB1C104K	16V 0.1U	1	(EB)
C7501-08	ECJ1VC1H151J	50V 150P	8	(EB)
C7509	ECEA0JKS470	6.3V 47U	1	(EB)
C7512	ECJ1VF1A105Z	10V 1U	1	(EB)
C7513	ECJ1VB1C104K	16V 0.1U	1	(EB)
C7515	ECJ1VF1A105Z	10V 1U	1	(EB)
C7516	ECJ1VC1H101J	50V 100P	1	(EB)
C7517	ECEA1VKA220B	35V 22U	1	(EB)
C7518	ECJ1VF1H104Z	50V 0.1U	1	(EB)
C7521	F2A1C221A019	16V 220U	1	(EB)
C7522	ECJ1VF1H104Z	50V 0.1U	1	(EB)
C7523	ECQB1H473JF3	50V 0.047U	1	(EB)
C7524	ECJ1VB1H103K	50V 0.01U	1	(EB)
C7525	F2A0J221A016	6.3V 220U	1	(EB)
C7526	VCEA1VCB100	35V 10U	1	F2A1V1000013 (EB)
C7527	ECQB1H223KF3	50V 0.022U	1	(EB)
C7528	F2A1H100A218	50V 10U	1	(EB)
C7529	F2A1V220A174	35V 22U	1	(EB)
C7531	ECEA1EKN4R7B	25V 4.7U	1	(EB)
C7532	ECJ1VF1C104Z	16V 0.1U	1	(EB)
C7533	ECJ1VC1H101J	50V 100P	1	(EB)
C7534	ECEA1EKN4R7B	25V 4.7U	1	(EB)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7535	ECJ1VB1C104K	16V 0.1U	1	(EB)
C7536	ECEA0JKS101	6.3V 100U	1	(EB)
C7537	ECJ1VF1C104Z	16V 0.1U	1	(EB)
C7538	ECJ1VB1C104K	16V 0.1U	1	(EB)
C7539	ECUV1H200JCV	50V 20P	1	ECJ1VC1H200J (EB)
C7540	ECJ1VC1H151J	50V 150P	1	(EB)
C7541	ECJ1VC1H101J	50V 100P	1	(EB)
C7542	ECJ1VB1C104K	16V 0.1U	1	(EB)
C7543	ECEA0JKS470	6.3V 47U	1	(EB)
C7544,45	ECJ1VF1C104Z	16V 0.1U	2	(EB)
C7546	ECJ1VB1C104K	16V 0.1U	1	(EB)
C7547	ECEA0JKS470	6.3V 47U	1	(EB)
C7548,49	ECJ1VC1H100C	50V 10P	2	(EB)
C7551,52	ECUV1H221JCV	50V 220P	2	ECJ1VC1H221J (EB)
C7553	ECJ1VC1H101J	50V 100P	1	(EB)
C7554	ECJ1VC1H220J	50V 22P	1	(EB)
C7555	ECJ1VC1H270J	50V 27P	1	(EB)
C7556	ECJ1VC1H150J	50V 15P	1	(EB)
C7557	ECJ1VC1H270J	50V 27P	1	(EB)
C7558	ECJ1VB1H103K	50V 0.01U	1	(EB)
C7559	ECJ1VC1H470J	50V 47P	1	(EB)
C7560	ECJ1VB1H103K	50V 0.01U	1	(EB)
C7561	ECJ1VC1H470J	50V 47P	1	(EB)
C7562	ECJ1VB1C104K	16V 0.1U	1	(EB)
C7563	ECJ1VC1H470J	50V 47P	1	(EB)
C7564	ECJ1VB1C104K	16V 0.1U	1	(EB)
C7565,66	ECJ1VC1H100C	50V 10P	2	(EB)
C7567	ECEA0JKS470	6.3V 47U	1	(EB)
C7568	ECJ1VB1H103K	50V 0.01U	1	(EB)
C7570	ECJ1VB1C104K	16V 0.1U	1	(EB)
C7571	ECJ1VB1H103K	50V 0.01U	1	(EB)
C7572	ECJ1VB1C104K	16V 0.1U	1	(EB)
C7573	ECEA0JKS470	6.3V 47U	1	(EB)
C7575-77	ECJ1VB1H103K	50V 0.01U	3	(EB)
C7578,79	ECJ1VC1H101J	50V 100P	2	(EB)
C7580	ECEA0JKS101	6.3V 100U	1	(EB)
C7581	ECJ1VF1C104Z	16V 0.1U	1	(EB)
C7582	VCE0073-T	CAPACITOR	1	F4D55473A005 (EB)
C7583	ECEA1AKS221	10V 220U	1	(EB)
C7584	ECJ1VF1C104Z	16V 0.1U	1	(EB)
C7585	ECJ1VB1H103K	50V 0.01U	1	(EB)
C7586	ECEA1CKA470	16V 47U	1	(EB)
C7587	ECJ1VF1C104Z	16V 0.1U	1	(EB)
C7589,90	ECJ1VC1H100C	50V 10P	2	(EB)
C7593-95	ECJ1VC1H100C	50V 10P	3	(EB)
C7599	ECJ1VC1H101J	50V 100P	1	(EB)
C7600	ECJ1VF1C104Z	16V 0.1U	1	(EB)
C7601	ECEA0JKS470	6.3V 47U	1	(EB)
C7603	ECEA0JKS470	6.3V 47U	1	(EB)
C7604	ECJ1VB1H103K	50V 0.01U	1	(EB)
C7605	ECEA0JKS470	6.3V 47U	1	(EB)
C7606	ECJ1VF1C104Z	16V 0.1U	1	(EB)
C7607	ECJ1VF1H103Z	50V 0.01U	1	(EB)
C7608	ECJ1VF1C104Z	16V 0.1U	1	(EB)
C7609,10	ECJ1VB1H103K	50V 0.01U	2	(EB)
C9935,36	ECUV1H221JCV	50V 220P	2	ECJ1VC1H221J (EB)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D3001	MA2C165001VT	DIODE	1	(EB)
D4001	MA2C165001VT	DIODE	1	(EB)
D4005,06	MA3Z142D0RG	DIODE	2	(EB)
D7401	MA2C165001VT	DIODE	1	(EB)
D7402	MA4300N-M	DIODE	1	MAZ4300NM (EB)
D7403	MA2C165001VT	DIODE	1	(EB)
D7501	VSD0002	DIODE	1	B0HAGR000005 (EB)
D7502	ERA22-02	DIODE	1	B0HAGM000001 (EB)
D7503	MAZ4240NMF	DIODE	1	(EB)
D7504,05	MA2C18500E	DIODE	2	(EB)
D7506	MA4300N-M	DIODE	1	MAZ4300NM (EB)
D7507	B0ACCK000005	DIODE	1	(EB)
D7512	MA719	DIODE	1	MA2C719 (EB)
D7513	B0JACE000001	DIODE	1	(EB)
DP7501	A2BD00000058	DIODE	1	(EB)
DU7402	ENG47328G1	TUNER PACK	1	(EB)
FL3001	ELB4C082B	FILTER	1	(EB)
FL3002	ELB4B109B	FILTER	1	(EB)
FL3003	ELB4B106B	FILTER	1	(EB)
FL3004	ELB4A029B	FILTER	1	(EB)
FL3005-07	ELB4C083B	FILTER	3	(EB)
IC1501	C0DBZHG00012	IC	1	(EB)
IC1502	C0DBEFG00002	IC	1	(EB)
IC1504	C0DBZGG00010	IC	1	(EB)
IC1505	C0DBCHD00002	IC	1	(EB)
IC1513	C0DBZHE00014	IC	1	(EB)
IC3001	C1AB00001735	IC	1	(EB)
IC3002	C0JBAR000292	IC	1	(EB)
IC3003	C9ZB00000377	IC	1	(EB)
IC3004	C0JBAR000292	IC	1	(EB)
IC4001	C1AB00001779	IC	1	(EB)
IC4005	TC7W04FTE12L	IC	1	C0JBAB000178 (EB)
IC4006	K7AAAB000011	IC	1	(EB)
IC4007	TC7SET08F	IC	1	C0JBAA000284 (EB)
IC4009	NJM4580M	IC	1	C0ABBB000126 (EB)
IC4010	C0DBZJG00005	IC	1	(EB)
IC4011	C0DBZHE00013	IC	1	(EB)
IC4012	C0ABBB000118	IC	1	(EB)
IC4013	AN78L09M	IC	1	(EB)
IC7401	C0DBZJG00005	IC	1	(EB)
IC7402,03	C0DBCHD00002	IC	2	(EB)
IC7501	C0HBB0000029	IC	1	(EB)
IC7502	C2CBJG000299	IC	1	(EB)
IC7503	C0DBFHD00003	IC	1	(EB)
IC7504	C0EBJ0000153	IC	1	(EB)
IC7505	C0EBF0000182	IC	1	(EB)
IC7506	C3EBJC000038	IC	1	(EB)
IC7507	NJM2904M	IC	1	C0ABBA000021 (EB)
IC7508	C0EBE0000218	IC	1	(EB)
IP4001	D4FAR4000001	IC PROTECTOR	1	(EB) ⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IP7501	D4FAR4000001	IC PROTECTOR	1	(EB) ⚠
JK3001	K1U822B00001	JACK,AV IN/OUT	1	(EB)
L3006,07	G0C4R7JA0019	COIL 4.7UH	2	(EB)
L4002	ELESE220KA	COIL 22UH	1	(EB)
L7402	VLQ0599J270	COIL 27UH	1	G0C270JA0026 (EB)
L7403	VLQ0599J2R2	COIL 2.2UH	1	G0C2R2JA0026 (EB)
LB1501-05	J0JHC0000032	COIL	5	(EB)
LB3001-04	J0JGC0000020	COIL	4	(EB)
LB3011-16	J0JHC0000032	COIL	6	(EB)
LB4001	J0JGC0000020	COIL	1	(EB)
LB7401	J0JCC0000120	COIL	1	(EB)
LB7402-06	J0JHC0000032	COIL	5	(EB)
LB7501,02	ERJ3GEY0R00V	1/16W 0	2	(EB)
LB7503	G0ZZ00001936	COIL	1	(EB)
LB7504	J0JGC0000020	COIL	1	(EB)
LB7505	ERJ3GEY0R00V	1/16W 0	1	(EB)
LB7506-10	J0JGC0000020	COIL	5	(EB)
LB7511	ERJ3GEY0R00V	1/16W 0	1	(EB)
LB7512	J0JGC0000020	COIL	1	(EB)
LB7519	ERJ3GEY0R00V	1/16W 0	1	(EB)
LB7520	J0JGC0000020	COIL	1	(EB)
LB7521	ERJ3GEY0R00V	1/16W 0	1	(EB)
LB7522	J0JGC0000020	COIL	1	(EB)
LB9704	ERJ3GEY0R00V	1/16W 0	1	(EB)
P7501	K1KB20B00040	CONNECTOR(20P)	1	(EB)
P7504	TJS118601T	CONNECTOR(3P)	1	K1KA03A00173 (EB)
PP1501	K1KA19A00016	CONNECTOR(19P)	1	(EB)
PP1502	K1KA08A00355	CONNECTOR(8P)	1	(EB)
PP1503	K1KA15A00124	CONNECTOR(15P)	1	(EB)
PP3001	VJP3042G008W	CONNECTOR(8P)	1	K1KA08A00163 (EB)
PP3002	VJP3042G012W	CONNECTOR(12P)	1	K1KA12A00136 (EB)
PP7401	VJP3042G020W	CONNECTOR(20P)	1	K1KA20A00203 (EB)
PP7402	VJP3042G012W	CONNECTOR(12P)	1	K1KA12A00136 (EB)
PP7403	K1KA15A00064	CONNECTOR(15P)	1	(EB)
PP9701-03	K1KA30A00180	CONNECTOR(30P)	3	(EB)
Q3001	2SD1819A0L	TRANSISTOR	1	(EB)
Q3002	2SB1218A	TRANSISTOR	1	(EB)
Q3003	2SD1819A0L	TRANSISTOR	1	(EB)
Q3004-11	2SB1218A	TRANSISTOR	8	(EB)
Q4004	2SB1218A	TRANSISTOR	1	(EB)
Q4006-09	2SD132800L	TRANSISTOR	4	(EB)
Q7401	2SD1819AWL	TRANSISTOR	1	(EB)
Q7402	2SB1218A	TRANSISTOR	1	(EB)
Q7501,02	2SD0601A0L	TRANSISTOR	2	(EB)
Q7503	2SD1994BR1VT	TRANSISTOR	1	(EB)
Q7504	2SD0601A0L	TRANSISTOR	1	(EB)
Q7505	2SB709A	TRANSISTOR	1	2SB0709A (EB)
Q7506	2SD1819A0L	TRANSISTOR	1	(EB)
Q7507	2SB709A	TRANSISTOR	1	2SB0709A (EB)
Q7508	2SD1819A0L	TRANSISTOR	1	(EB)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q7509	2SC2295	TRANSISTOR	1	(EB)
Q7510	2SB709A	TRANSISTOR	1	2SB0709A (EB)
Q7511,12	2SD0601A0L	TRANSISTOR	2	(EB)
Q7513	2SD1819A0L	TRANSISTOR	1	(EB)
Q7515	2SD1119-R	TRANSISTOR	1	2SD11190R (EB)
Q7516	2SB710A	TRANSISTOR	1	2SB0710A (EB)
QR4001-07	UNR521100L	TRANSISTOR	7	(EB)
QR4012	UN5113TW	TRANSISTOR	1	(EB)
QR7401-03	UN5213TX	TRANSISTOR	3	UNR521300L (EB)
QR7404	UNR511400L	TRANSISTOR	1	(EB)
QR7405	UN5213TX	TRANSISTOR	1	UNR521300L (EB)
QR7406	UN2115-TX	TRANSISTOR	1	UNR211500L (EB)
QR7407	UN2215-TX	TRANSISTOR	1	UNR221500L (EB)
QR7501	UN5213TX	TRANSISTOR	1	UNR521300L (EB)
QR7502	UN5113TW	TRANSISTOR	1	(EB)
QR7503	UN5212-TX	TRANSISTOR	1	UNR521200L (EB)
R1501	ERJ3GEY0R00V	1/16W 0	1	(EB)
R1502	ERJ3GEYJ471V	1/16W 470	1	(EB)
R1515	ERDS2FJ271	1/4W 270	1	(EB)
R3005,06	ERJ3GEYJ102V	1/16W 1K	2	(EB)
R3007,08	ERJ3GEYJ330V	1/16W 33	2	D0GB330JA002 (EB)
R3009,10	ERJ3RBD202	1/16W 2K	2	(EB)
R3011,12	ERJ3RBD362	1/16W 3.6K	2	(EB)
R3013,14	ERJ3GEYJ102V	1/16W 1K	2	(EB)
R3015	ERJ3GEYJ471V	1/16W 470	1	(EB)
R3016	ERJ3GEYJ102V	1/16W 1K	1	(EB)
R3017,18	ERJ3GEYJ330V	1/16W 33	2	D0GB330JA002 (EB)
R3022-24	MCR03PZHJ561	1/16W 560	3	(EB)
R3025	ERJ3GEYJ152V	1/16W 1.5K	1	(EB)
R3026	ERJ3GEYJ102V	1/16W 1K	1	(EB)
R3027,28	ERJ3GEY0R00V	1/16W 0	2	(EB)
R3029	ERJ3GEYJ102V	1/16W 1K	1	(EB)
R3031,32	MCR03PZHJ561	1/16W 560	2	(EB)
R3033,34	ERJ3GEY0R00V	1/16W 0	2	(EB)
R3036	ERJ3GEYJ221V	1/16W 220	1	(EB)
R3037	ERJ3GEYJ272V	1/16W 2.7K	1	(EB)
R3038-40	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002 (EB)
R3041,42	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002 (EB)
R3043	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EB)
R3044	ERJ3GEY0R00V	1/16W 0	1	(EB)
R3045	ERJ3GEYJ102V	1/16W 1K	1	(EB)
R3046,47	ERJ3GEYJ221V	1/16W 220	2	(EB)
R3048-50	ERJ3GEYJ101	1/16W 100	3	D0GB101JA002 (EB)
R3051	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002 (EB)
R3052	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002 (EB)
R3056,57	ERJ3GEYJ102V	1/16W 1K	2	(EB)
R3058-60	ERJ3GEYJ331V	1/16W 330	3	(EB)
R3061	ERJ3GEY0R00V	1/16W 0	1	(EB)
R3062	ERJ3GEYJ102V	1/16W 1K	1	(EB)
R3063	ERJ3RBD333V	1/16W 33K	1	(EB)
R3064	ERJ3RBD562V	1/16W 5.6K	1	(EB)
R3065	ERJ3RBD333V	1/16W 33K	1	(EB)
R3066	ERJ3RBD562V	1/16W 5.6K	1	(EB)
R3067	ERJ3GEY0R00V	1/16W 0	1	(EB)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3068	ERJ3RBD333V	1/16W 33K	1	(EB)
R3069	ERJ3RBD562V	1/16W 5.6K	1	(EB)
R3070	ERJ3RBD333V	1/16W 33K	1	(EB)
R3071	ERJ3RBD562V	1/16W 5.6K	1	(EB)
R3072	ERJ3RBD333V	1/16W 33K	1	(EB)
R3073	ERJ3RBD562V	1/16W 5.6K	1	(EB)
R3074	ERJ3RBD333V	1/16W 33K	1	(EB)
R3075	ERJ3RBD562V	1/16W 5.6K	1	(EB)
R3076	ERJ3RBD333V	1/16W 33K	1	(EB)
R3077	ERJ3RBD562V	1/16W 5.6K	1	(EB)
R3078-83	ERJ6GEYJ750V	1/10W 75	6	(EB)
R3084	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 (EB)
R3085	ERJ3GEYJ102V	1/16W 1K	1	(EB)
R3086	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002 (EB)
R3087	ERJ3GEYJ102V	1/16W 1K	1	(EB)
R3088	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002 (EB)
R3091,92	ERJ3GEY0R00V	1/16W 0	2	(EB)
R4001	ERJ6GEYJ102V	1/10W 1K	1	(EB)
R4002	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EB)
R4003	ERJ3GEYJ334V	1/16W 330K	1	(EB)
R4004,05	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002 (EB)
R4006	ERJ3GEYJ334V	1/16W 330K	1	(EB)
R4007	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EB)
R4008,09	ERJ3GEYJ823V	1/16W 82K	2	D0GB823JA002 (EB)
R4010,11	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002 (EB)
R4012	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002 (EB)
R4013	ERJ6GEYJ102V	1/10W 1K	1	(EB)
R4014	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EB)
R4015	ERJ6GEYJ102V	1/10W 1K	1	(EB)
R4016	ERJ3GEYJ225V	1/16W 2.2M	1	(EB)
R4017	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EB)
R4019,20	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002 (EB)
R4021,22	ERJ3GEYJ823V	1/16W 82K	2	D0GB823JA002 (EB)
R4023	ERJ6GEYJ102V	1/10W 1K	1	(EB)
R4024	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EB)
R4027	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EB)
R4030	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EB)
R4039,40	ERJ3GEYD153V	1/16W 15K	2	D0HB153ZA002 (EB)
R4044,45	ERJ3GEY0R00V	1/16W 0	2	(EB)
R4046,47	JAR0816P752D	1/16W 7.5K	2	D0HB752ZA002 (EB)
R4055	JAR0816P153D	1/16W 15K	1	D0HB153ZA002 (EB)
R4057	JAR0816P153D	1/16W 15K	1	D0HB153ZA002 (EB)
R4066,67	JAR0816P103D	1/16W 10K	2	D0HB103ZA002 (EB)
R4070	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002 (EB)
R4071	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002 (EB)
R4074	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002 (EB)
R4076	ERJ3GEYJ821V	1/16W 820	1	(EB)
R4077	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002 (EB)
R4078,79	ERJ3GEYJ272V	1/16W 2.7K	2	(EB)
R4080	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002 (EB)
R4081	ERJ3GEYJ821V	1/16W 820	1	(EB)
R4087	ERJ3GEYJ102V	1/16W 1K	1	(EB)
R4088,89	ERJ3GEYJ272V	1/16W 2.7K	2	(EB)
R4090	ERJ3GEYJ221V	1/16W 220	1	(EB)
R4093	ERJ3GEYJ221V	1/16W 220	1	(EB)
R4099	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002 (EB)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7401,02	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002 (EB)
R7403	ERJ3GEYJ392V	1/16W 3.9K	1	(EB)
R7404	ERJ3GEYJ472V	1/16W 4.7K	1	(EB)
R7405	ERDS2FJ471	1/4W 470	1	(EB)
R7406	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 (EB)
R7407	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EB)
R7408	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002 (EB)
R7409	ERJ3GEYJ271V	1/16W 270	1	(EB)
R7410	ERJ3GEYJ100	1/16W 10	1	(EB)
R7411	ERG2SJ471E	2W 470	1	(EB)
R7412	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002 (EB)
R7413,14	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002 (EB)
R7415,16	ERJ3GEYJ471V	1/16W 470	2	(EB)
R7417	ERG2SJ471E	2W 470	1	(EB)
R7419,20	ERJ3GEYJ151V	1/16W 150	2	(EB)
R7421,22	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002 (EB)
R7423	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002 (EB)
R7501	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002 (EB)
R7502	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EB)
R7503	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002 (EB)
R7504	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EB)
R7505	ERJ3GEYJ102V	1/16W 1K	1	(EB)
R7506,07	ERJ3GEYJ221V	1/16W 220	2	(EB)
R7508	ERJ3RBD273V	1/16W 27K	1	(EB)
R7510	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002 (EB)
R7511	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 (EB)
R7512	ERDS2FJ331	1/4W 330	1	(EB)
R7513	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 (EB)
R7514	ERDS2FJ3R9	1/4W 3.9	1	(EB)
R7515	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002 (EB)
R7516	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002 (EB)
R7517	ERJ3GEYJ102V	1/16W 1K	1	(EB)
R7518	ERJ3GEYJ104	1/16W 100K	1	(EB)
R7519	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EB)
R7520	ERJ3GEYJ392V	1/16W 3.9K	1	(EB)
R7521	ERJ3GEYJ102V	1/16W 1K	1	(EB)
R7522	ERJ3GEYJ104	1/16W 100K	1	(EB)
R7523	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002 (EB)
R7524	ERJ3GEYG152	1/16W 1.5K	1	(EB)
R7525	ERJ3GEYG562V	1/16W 5.6K	1	(EB)
R7526	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EB)
R7527	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002 (EB)
R7528	ERJ3GEYJ472V	1/16W 4.7K	1	(EB)
R7529	ERJ3GEYJ182V	1/16W 1.8K	1	(EB)
R7530	ERJ3GEYJ102V	1/16W 1K	1	(EB)
R7531	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EB)
R7532	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002 (EB)
R7533,34	ERJ3GEYJ472V	1/16W 4.7K	2	(EB)
R7535	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 (EB)
R7536	ERJ3GEYJ472V	1/16W 4.7K	1	(EB)
R7537	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002 (EB)
R7538	ERJ3GEYJ273V	1/16W 27K	1	D0GB273JA002 (EB)
R7539	ERJ3GEYJ225V	1/16W 2.2M	1	(EB)
R7540	ERJ3GEYJ224V	1/16W 220K	1	D0GB224JA002 (EB)
R7541	ERJ3GEYJ104	1/16W 100K	1	(EB)
R7542	ERJ3GEYJ221V	1/16W 220	1	(EB)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7543	ERJ3GEYJ104	1/16W 100K	1	(EB)
R7544	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002 (EB)
R7545	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EB)
R7546	ERJ3GEYJ472V	1/16W 4.7K	1	(EB)
R7547	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 (EB)
R7548	ERJ3GEY0R00V	1/16W 0	1	(EB)
R7549	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002 (EB)
R7550	ERJ3GEY0R00V	1/16W 0	1	(EB)
R7551	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EB)
R7552-54	ERJ3GEYJ101	1/16W 100	3	D0GB101JA002 (EB)
R7555	ERJ3GEYJ221V	1/16W 220	1	(EB)
R7556	ERJ3GEYJ472V	1/16W 4.7K	1	(EB)
R7557,58	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002 (EB)
R7559	ERJ3GEYJ511	1/16W 510	1	(EB)
R7560,61	ERJ3GEYJ202V	1/16W 2K	2	(EB)
R7562	ERJ3GEYJ472V	1/16W 4.7K	1	(EB)
R7563-68	ERJ3GEYJ101	1/16W 100	6	D0GB101JA002 (EB)
R7569-71	ERJ3GEYJ472V	1/16W 4.7K	3	(EB)
R7572,73	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002 (EB)
R7574	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 (EB)
R7575	ERJ3GEYG433	1/16W 43K	1	(EB)
R7576	ERJ3GEYG393V	1/16W 39K	1	(EB)
R7577-81	ERJ3GEYJ101	1/16W 100	5	D0GB101JA002 (EB)
R7582	ERJ3GEYJ102V	1/16W 1K	1	(EB)
R7590-92	ERJ3RBD822	1/16W 8.2K	3	(EB)
R7593,94	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002 (EB)
R7595,96	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002 (EB)
R7598	ERJ3GEYJ181V	1/16W 180	1	(EB)
R7599	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 (EB)
R7600	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EB)
R7601	ERJ3GEYJ821V	1/16W 820	1	(EB)
R7602	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002 (EB)
R7604,05	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002 (EB)
R7607	ERJ3GEYJ472V	1/16W 4.7K	1	(EB)
R7617	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EB)
R7618	ERJ3GEYJ472V	1/16W 4.7K	1	(EB)
R7619	ERJ3GEYJ104	1/16W 100K	1	(EB)
R7620-23	ERJ3GEYJ223V	1/16W 22K	4	D0GB223JA002 (EB)
R7624	ERJ3GEYJ102V	1/16W 1K	1	(EB)
R7625	ERDS2TJ392T	1/4W 3.9K	1	(EB)
T7501	ETS13TB119AP	TRANSFORMER	1	(EB) ⚠
W6,W7	ERJ3GEY0R00V	1/16W 0	2	(EB)
W501-19	ERJ3GEY0R00V	1/16W 0	19	(EB)
W520,21	ERJ6GEY0R00V	1/10W 0	2	(EB)
W522-27	ERJ3GEY0R00V	1/16W 0	6	(EB)
W528	ERJ6GEY0R00V	1/10W 0	1	(EB)
W529-31	ERJ3GEY0R00V	1/16W 0	3	(EB)
X7501	H0D443400035	CRYSTAL OSCILLATOR	1	(EB)
X7502	H0A327200064	CRYSTAL OSCILLATOR	1	(EB)
X7503	VSX1043-T	CRYSTAL OSCILLATOR	1	H0D100500006 (EB)
ZJ7401-04	VJR0978	EARTH ANGLE	4	K9ZZ00000424 (EB)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
~	05	REP3532A		
C1502	F2A1E221A210	25V 220U	1	(EG/GCS)
C1503,04	F2A1A471A211	10V 470U	2	(EG/GCS)
C1505,06	F2A0J471A256	6.3V 470U	2	(EG/GCS)
C1508,09	F2A0J470A012	6.3V 47U	2	(EG/GCS)
C1512	F2A1E4700048	25V 47U	1	(EG/GCS)
C1514	F2A0J470A012	6.3V 47U	1	(EG/GCS)
C1528	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C1530	F2A1E4700048	25V 47U	1	(EG/GCS)
C1531,32	ECJ1VB1C104K	16V 0.1U	2	(EG/GCS)
C3001	ECJ1VB1H103K	50V 0.01U	1	(EG/GCS)
C3002	ECEA0JKN470	6.3V 47U	1	(EG/GCS)
C3003	ECJ1VB1H103K	50V 0.01U	1	(EG/GCS)
C3004	ECEA0JKS470	6.3V 47U	1	(EG/GCS)
C3005	ECJ1VB1H103K	50V 0.01U	1	(EG/GCS)
C3006	ECEA0JKS101	6.3V 100U	1	(EG/GCS)
C3007-14	ECJ1VB1H103K	50V 0.01U	8	(EG/GCS)
C3015	ECJ1VB1H473K	50V 0.047U	1	(EG/GCS)
C3016-19	ECJ1VB1H103K	50V 0.01U	4	(EG/GCS)
C3020	ECEA0JKS101	6.3V 100U	1	(EG/GCS)
C3021-24	ECJ1VB1H103K	50V 0.01U	4	(EG/GCS)
C3025	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C3026	ECJ1VB1H103K	50V 0.01U	1	(EG/GCS)
C3027	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C3028	ECJ1VB1H103K	50V 0.01U	1	(EG/GCS)
C3029	ECEA0JKS470	6.3V 47U	1	(EG/GCS)
C3030,31	ECEA0JKN470	6.3V 47U	2	(EG/GCS)
C3032	ECJ1VC1H560J	50V 56P	1	(EG/GCS)
C3033	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C3034	ECEA1HSN010	50V 1U	1	(EG/GCS)
C3035-37	ECJ1VB1H103K	50V 0.01U	3	(EG/GCS)
C3038	ECEA1AKS221	10V 220U	1	(EG/GCS)
C3039	ECJ1VB1H103K	50V 0.01U	1	(EG/GCS)
C3040	ECEA0JKS101	6.3V 100U	1	(EG/GCS)
C3041	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C3042-44	ECEA0JKN470	6.3V 47U	3	(EG/GCS)
C3045	ECA0JM102	6.3V 1000U	1	(EG/GCS)
C3046	ECEA0JKS101	6.3V 100U	1	(EG/GCS)
C3047	ECA0JM102	6.3V 1000U	1	(EG/GCS)
C3048	ECEA0JKS101	6.3V 100U	1	(EG/GCS)
C3049,50	ECJ1VB1C104K	16V 0.1U	2	(EG/GCS)
C3051	ECJ1VC1H560J	50V 56P	1	(EG/GCS)
C3052	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C3053	ECEA0JKN470	6.3V 47U	1	(EG/GCS)
C3054	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C3056	ECUV1H471JCV	50V 470P	1	ECJ1VC1H471J (EG/GCS)
C3058	ECUV1H471JCV	50V 470P	1	ECJ1VC1H471J (EG/GCS)
C3059	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C3060,61	ECJ1VC1H470J	50V 47P	2	(EG/GCS)
C3063	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C3067	ECJ1VB1H103K	50V 0.01U	1	(EG/GCS)
C3068	ECJ1VC1H150J	50V 15P	1	(EG/GCS)
C3069	ECJ1XC1H180J	50V 18P	1	ECJ1VC1H180J (EG/GCS)
C3070	ECEA0JKS470	6.3V 47U	1	(EG/GCS)
C4001,02	F2A1H4R7A236	50V 4.7U	2	(EG/GCS)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4003,04	ECJ1VB1H103K	50V 0.01U	2	(EG/GCS)
C4005-07	F2A1H1R0A236	50V 1U	3	(EG/GCS)
C4008	F2A1C221A019	16V 220U	1	(EG/GCS)
C4010	F2A1H1R0A236	50V 1U	1	(EG/GCS)
C4011	F2A1H100A236	50V 10U	1	(EG/GCS)
C4012	ECJ2VB1E104K	25V 0.1U	1	(EG/GCS)
C4013	F2A1H1R0A236	50V 1U	1	(EG/GCS)
C4014	F2A1H100A236	50V 10U	1	(EG/GCS)
C4015	F2A1H1R0A236	50V 1U	1	(EG/GCS)
C4017	F2A1H100A236	50V 10U	1	(EG/GCS)
C4018	F2A1H4R7A236	50V 4.7U	1	(EG/GCS)
C4019	F2A1C100A019	16V 10U	1	(EG/GCS)
C4020	ECJ2VB1E104K	25V 0.1U	1	(EG/GCS)
C4021	F2A1C100A019	16V 10U	1	(EG/GCS)
C4022	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C4023	F2A1H1R0A236	50V 1U	1	(EG/GCS)
C4024	F2A1C471A236	16V 470U	1	(EG/GCS)
C4025	F2A1H1R0A236	50V 1U	1	(EG/GCS)
C4026	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C4027	F2A1H1R0A236	50V 1U	1	(EG/GCS)
C4028	ECJ1VB1H103K	50V 0.01U	1	(EG/GCS)
C4029	F2A1C102A236	16V 1000U	1	(EG/GCS)
C4030	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C4031	F2A1H1R0A236	50V 1U	1	(EG/GCS)
C4033,34	F2A1C4700011	16V 47U	2	(EG/GCS)
C4052	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C4053	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C4054	F2A0J470A179	6.3V 47U	1	(EG/GCS)
C4055	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C4056	F2A0J471A247	6.3V 470U	1	(EG/GCS)
C4057	ECUV1H680JCG	50V 68P	1	ECJ2VC1H680J (EG/GCS)
C4059	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C4060	ECUV1H680JCG	50V 68P	1	ECJ2VC1H680J (EG/GCS)
C4061	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C4062	ECA1AM221	10V 220U	1	(EG/GCS)
C4063,64	F2A1C4700011	16V 47U	2	(EG/GCS)
C4065	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C4067	F2A0J470A179	6.3V 47U	1	(EG/GCS)
C4069	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C4070	ECA1AM221	10V 220U	1	(EG/GCS)
C4072	ECA1AM221	10V 220U	1	(EG/GCS)
C4074,75	ECJ1VF1C104Z	16V 0.1U	2	(EG/GCS)
C4076	F2A1C471A236	16V 470U	1	(EG/GCS)
C4077	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C4082,83	ECJ2VC1H102J	50V 1000P	2	(EG/GCS)
C4091	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C4092	F2A1C221A019	16V 220U	1	(EG/GCS)
C7301	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C7302	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
C7303	ECEA0JKS101	6.3V 100U	1	(EG/GCS)
C7305	ECEA0JKS101	6.3V 100U	1	(EG/GCS)
C7306	ECJ1VF1H103Z	50V 0.01U	1	(EG/GCS)
C7307,08	ECUV1H100DCV	50V 10U	2	ECJ1VC1H100D (EG/GCS)
C7309-11	ECJ1VC1H101J	50V 100P	3	(EG/GCS)
C7312,13	ECEA1CKS100	16V 10U	2	(EG/GCS)
C7314	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7317	ECEA1CKA470	16V 47U	1	(EG/GCS)
C7318	ECEA1CKS100	16V 10U	1	(EG/GCS)
C7323	ECJ1VC1H102J	50V 1000P	1	(EG/GCS)
C7324	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C7329	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
C7330	ERJ3GEYJ822V	1/16W 8.2K	1	D0GB822JA002 (EG/GCS)
C7332	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C7333	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C7334	ECEA1HKS2R2	50V 2.2U	1	(EG/GCS)
C7335	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C7401	F2A1C471A236	16V 470U	1	(EG/GCS)
C7402	ECJ1VB1H103K	50V 0.01U	1	(EG/GCS)
C7403,04	ECEA0JKS470	6.3V 47U	2	(EG/GCS)
C7405,06	ECJ1VB1C104K	16V 0.1U	2	(EG/GCS)
C7407	ECJ1VB1H103K	50V 0.01U	1	(EG/GCS)
C7408	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C7409,10	ECJ1VB1H103K	50V 0.01U	2	(EG/GCS)
C7413	ECEA0JKS470	6.3V 47U	1	(EG/GCS)
C7414	ECEA1HKS010	50V 1U	1	(EG/GCS)
C7415-17	ECEA0JKS470	6.3V 47U	3	(EG/GCS)
C7418,19	ECJ1VC1H330J	50V 33P	2	(EG/GCS)
C7420	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C7421,22	ECJ1VB1H103K	50V 0.01U	2	(EG/GCS)
C7423	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
C7424	ECEA0JKS470	6.3V 47U	1	(EG/GCS)
C7426	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C7427	ECJ1VB1H222K	50V 2200P	1	(EG/GCS)
C7428	ECJ2VB1H103K	50V 0.01U	1	(EG/GCS)
C7429	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C7439	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C7501-08	ECJ1VC1H151J	50V 150P	8	(EG/GCS)
C7509	ECEA0JKS470	6.3V 47U	1	(EG/GCS)
C7512	ECJ1VF1A105Z	10V 1U	1	(EG/GCS)
C7513	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C7515	ECJ1VF1A105Z	10V 1U	1	(EG/GCS)
C7516	ECJ1VC1H101J	50V 100P	1	(EG/GCS)
C7517	ECEA1VKA220B	35V 22U	1	(EG/GCS)
C7518	ECJ1VF1H104Z	50V 0.1U	1	(EG/GCS)
C7521	F2A1C221A019	16V 220U	1	(EG/GCS)
C7522	ECJ1VF1H104Z	50V 0.1U	1	(EG/GCS)
C7523	ECQB1H473JF3	50V 0.047U	1	(EG/GCS)
C7524	ECJ1VB1H103K	50V 0.01U	1	(EG/GCS)
C7525	F2A0J221A016	6.3V 220U	1	(EG/GCS)
C7526	VCEA1VCB100	35V 10U	1	F2A1V1000013 (EG/GCS)
C7527	ECQB1H223KF3	50V 0.022U	1	(EG/GCS)
C7528	F2A1H100A218	50V 10U	1	(EG/GCS)
C7529	F2A1V220A174	35V 22U	1	(EG/GCS)
C7531	ECEA1EKN4R7B	25V 4.7U	1	(EG/GCS)
C7532	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C7533	ECJ1VC1H101J	50V 100P	1	(EG/GCS)
C7534	ECEA1EKN4R7B	25V 4.7U	1	(EG/GCS)
C7535	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C7536	ECEA0JKS101	6.3V 100U	1	(EG/GCS)
C7537	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C7538	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C7539	ECUV1H200JCV	50V 20P	1	ECJ1VC1H200J (EG/GCS)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7540	ECJ1VC1H151J	50V 150P	1	(EG/GCS)
C7541	ECJ1VC1H101J	50V 100P	1	(EG/GCS)
C7542	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C7543	ECEA0JKS470	6.3V 47U	1	(EG/GCS)
C7544,45	ECJ1VF1C104Z	16V 0.1U	2	(EG/GCS)
C7546	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C7547	ECEA0JKS470	6.3V 47U	1	(EG/GCS)
C7548,49	ECJ1VC1H100C	50V 10P	2	(EG/GCS)
C7551,52	ECUV1H221JCV	50V 220P	2	ECJ1VC1H221J (EG/GCS)
C7553	ECJ1VC1H101J	50V 100P	1	(EG/GCS)
C7554	ECJ1VC1H220J	50V 22P	1	(EG/GCS)
C7555	ECJ1VC1H270J	50V 27P	1	(EG/GCS)
C7556	ECJ1VC1H150J	50V 15P	1	(EG/GCS)
C7557	ECJ1VC1H270J	50V 27P	1	(EG/GCS)
C7558	ECJ1VB1H103K	50V 0.01U	1	(EG/GCS)
C7559	ECJ1VC1H470J	50V 47P	1	(EG/GCS)
C7560	ECJ1VB1H103K	50V 0.01U	1	(EG/GCS)
C7561	ECJ1VC1H470J	50V 47P	1	(EG/GCS)
C7562	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C7563	ECJ1VC1H470J	50V 47P	1	(EG/GCS)
C7564	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C7565,66	ECJ1VC1H100C	50V 10P	2	(EG/GCS)
C7567	ECEA0JKS470	6.3V 47U	1	(EG/GCS)
C7568	ECJ1VB1H103K	50V 0.01U	1	(EG/GCS)
C7570	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C7571	ECJ1VB1H103K	50V 0.01U	1	(EG/GCS)
C7572	ECJ1VB1C104K	16V 0.1U	1	(EG/GCS)
C7573	ECEA0JKS470	6.3V 47U	1	(EG/GCS)
C7575-77	ECJ1VB1H103K	50V 0.01U	3	(EG/GCS)
C7578,79	ECJ1VC1H101J	50V 100P	2	(EG/GCS)
C7580	ECEA0JKS101	6.3V 100U	1	(EG/GCS)
C7581	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C7582	VCE0073-T	CAPACITOR	1	F4D55473A005 (EG/GCS)
C7583	ECEA1AKS221	10V 220U	1	(EG/GCS)
C7584	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C7585	ECJ1VB1H103K	50V 0.01U	1	(EG/GCS)
C7586	ECEA1CKA470	16V 47U	1	(EG/GCS)
C7587	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C7589,90	ECJ1VC1H100C	50V 10P	2	(EG/GCS)
C7593-95	ECJ1VC1H100C	50V 10P	3	(EG/GCS)
C7599	ECJ1VC1H101J	50V 100P	1	(EG/GCS)
C7600	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C7601	ECEA0JKS470	6.3V 47U	1	(EG/GCS)
C7603	ECEA0JKS470	6.3V 47U	1	(EG/GCS)
C7604	ECJ1VB1H103K	50V 0.01U	1	(EG/GCS)
C7605	ECEA0JKS470	6.3V 47U	1	(EG/GCS)
C7606	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C7607	ECJ1VF1H103Z	50V 0.01U	1	(EG/GCS)
C7608	ECJ1VF1C104Z	16V 0.1U	1	(EG/GCS)
C7609,10	ECJ1VB1H103K	50V 0.01U	2	(EG/GCS)
C9935,36	ECUV1H221JCV	50V 220P	2	ECJ1VC1H221J (EG/GCS)
D3001	MA2C165001VT	DIODE	1	(EG/GCS)
D4001	MA2C165001VT	DIODE	1	(EG/GCS)
D4005,06	MA3Z142D0RG	DIODE	2	(EG/GCS)
D7401	MA2C165001VT	DIODE	1	(EG/GCS)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D7402	MA4300N-M	DIODE	1	MAZ4300NM (EG/GCS)
D7403	MA2C165001VT	DIODE	1	(EG/GCS)
D7501	VSD0002	DIODE	1	B0HAGR000005 (EG/GCS)
D7502	ERA22-02	DIODE	1	B0HAGM000001 (EG/GCS)
D7503	MAZ4240NMF	DIODE	1	(EG/GCS)
D7504,05	MA2C18500E	DIODE	2	(EG/GCS)
D7506	MA4300N-M	DIODE	1	MAZ4300NM (EG/GCS)
D7507	B0ACCK000005	DIODE	1	(EG/GCS)
D7512	MA719	DIODE	1	MA2C719 (EG/GCS)
D7513	B0JACE000001	DIODE	1	(EG/GCS)
DP7501	A2BD00000058	DIODE	1	(EG/GCS)
DU7402	ENG47327G1	TUNER PACK	1	(EG/GCS)
FL3001	ELB4C082B	FILTER	1	(EG/GCS)
FL3002	ELB4B109B	FILTER	1	(EG/GCS)
FL3003	ELB4B106B	FILTER	1	(EG/GCS)
FL3004	ELB4A029B	FILTER	1	(EG/GCS)
FL3005-07	ELB4C083B	FILTER	3	(EG/GCS)
IC1501	C0DBZHG00012	IC	1	(EG/GCS)
IC1502	C0DBEFG00002	IC	1	(EG/GCS)
IC1504	C0DBZGG00010	IC	1	(EG/GCS)
IC1505	C0DBCHD00002	IC	1	(EG/GCS)
IC1513	C0DBZHE00014	IC	1	(EG/GCS)
IC3001	C1AB00001735	IC	1	(EG/GCS)
IC3002	C0JBAR000292	IC	1	(EG/GCS)
IC3003	C9ZB00000377	IC	1	(EG/GCS)
IC3004	C0JBAR000292	IC	1	(EG/GCS)
IC4001	C1AB00001779	IC	1	(EG/GCS)
IC4005	TC7W04FTE12L	IC	1	C0JBAB000178 (EG/GCS)
IC4006	K7AAAB000011	IC	1	(EG/GCS)
IC4007	TC7SET08F	IC	1	C0JBAA000284 (EG/GCS)
IC4009	NJM4580M	IC	1	C0ABBB000126 (EG/GCS)
IC4010	C0DBZJG00005	IC	1	(EG/GCS)
IC4011	C0DBZHE00013	IC	1	(EG/GCS)
IC4012	C0ABBB000118	IC	1	(EG/GCS)
IC4013	AN78L09M	IC	1	(EG/GCS)
IC7301	TDA9874AH	IC	1	C1AB00001404 (EG/GCS)
IC7302	PST7043-T	IC	1	C0EAH0000051 (EG/GCS)
IC7401	C0DBZJG00005	IC	1	(EG/GCS)
IC7402,03	C0DBCHD00002	IC	2	(EG/GCS)
IC7501	C0HBB0000029	IC	1	(EG/GCS)
IC7502	C2CBJG000299	IC	1	(EG/GCS)
IC7503	C0DBFHD00003	IC	1	(EG/GCS)
IC7504	C0EBJ0000153	IC	1	(EG/GCS)
IC7505	C0EBF0000182	IC	1	(EG/GCS)
IC7506	C3EBJC000038	IC	1	(EG/GCS)
IC7507	NJM2904M	IC	1	C0ABBA000021 (EG/GCS)
IC7508	C0EBE0000218	IC	1	(EG/GCS)
IP4001	D4FAR4000001	IC PROTECTOR	1	(EG/GCS) ⚠
IP7501	D4FAR4000001	IC PROTECTOR	1	(EG/GCS) ⚠
JK3001	K1U822B00001	JACK,AV IN/OUT	1	(EG/GCS)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
K7301-03	ERJ3GEY0R00V	1/16W 0	3	(EG/GCS)
K7305	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
L3006,07	G0C4R7JA0019	COIL 4.7UH	2	(EG/GCS)
L4002	ELESE220KA	COIL 22UH	1	(EG/GCS)
L7303	G0C1R0JA0019	COIL	1	(EG/GCS)
L7403	VLQ0599J2R2	COIL 2.2UH	1	G0C2R2JA0026 (EG/GCS)
LB1501-05	J0JHC0000032	COIL	5	(EG/GCS)
LB3001-04	J0JGC0000020	COIL	4	(EG/GCS)
LB3011-16	J0JHC0000032	COIL	6	(EG/GCS)
LB4001	J0JGC0000020	COIL	1	(EG/GCS)
LB7301,02	VLP0153	COIL	2	J0JCC0000112 (EG/GCS)
LB7303	VLP0150	COIL	1	J0JCC0000021 (EG/GCS)
LB7402-06	J0JHC0000032	COIL	5	(EG/GCS)
LB7501,02	ERJ3GEY0R00V	1/16W 0	2	(EG/GCS)
LB7503	G0ZZ00001936	COIL	1	(EG/GCS)
LB7504	J0JGC0000020	COIL	1	(EG/GCS)
LB7505	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
LB7506-10	J0JGC0000020	COIL	5	(EG/GCS)
LB7511	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
LB7512	J0JGC0000020	COIL	1	(EG/GCS)
LB7519	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
LB7520	J0JGC0000020	COIL	1	(EG/GCS)
LB7521	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
LB7522	J0JGC0000020	COIL	1	(EG/GCS)
LB9704	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
P7501	K1KB20B00040	CONNECTOR(20P)	1	(EG/GCS)
P7504	TJS118601T	CONNECTOR(3P)	1	K1KA03A00173 (EG/GCS)
PK7301	VJR0777B007W	CONNECTOR(7P)	1	K1MM07B00002 (EG/GCS)
PK7302	VJR0777B006W	CONNECTOR(6P)	1	K1MM06B00002 (EG/GCS)
PP1501	K1KA19A00016	CONNECTOR(19P)	1	(EG/GCS)
PP1502	K1KA08A00355	CONNECTOR(8P)	1	(EG/GCS)
PP1503	K1KA15A00124	CONNECTOR(15P)	1	(EG/GCS)
PP3001	VJP3042G008W	CONNECTOR(8P)	1	K1KA08A00163 (EG/GCS)
PP3002	VJP3042G012W	CONNECTOR(12P)	1	K1KA12A00136 (EG/GCS)
PP7401	VJP3042G020W	CONNECTOR(20P)	1	K1KA20A00203 (EG/GCS)
PP7402	VJP3042G012W	CONNECTOR(12P)	1	K1KA12A00136 (EG/GCS)
PP7403	K1KA15A00064	CONNECTOR(15P)	1	(EG/GCS)
PP9701-03	K1KA30A00180	CONNECTOR(30P)	3	(EG/GCS)
Q3001	2SD1819A0L	TRANSISTOR	1	(EG/GCS)
Q3002	2SB1218A	TRANSISTOR	1	(EG/GCS)
Q3003	2SD1819A0L	TRANSISTOR	1	(EG/GCS)
Q3004-11	2SB1218A	TRANSISTOR	8	(EG/GCS)
Q4004	2SB1218A	TRANSISTOR	1	(EG/GCS)
Q4006-09	2SD132800L	TRANSISTOR	4	(EG/GCS)
Q7401	2SD1819AWL	TRANSISTOR	1	(EG/GCS)
Q7402	2SB1218A	TRANSISTOR	1	(EG/GCS)
Q7501,02	2SD0601A0L	TRANSISTOR	2	(EG/GCS)
Q7503	2SD1994BR1VT	TRANSISTOR	1	(EG/GCS)
Q7504	2SD0601A0L	TRANSISTOR	1	(EG/GCS)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q7505	2SB709A	TRANSISTOR	1	2SB0709A (EG/GCS)
Q7506	2SD1819A0L	TRANSISTOR	1	(EG/GCS)
Q7507	2SB709A	TRANSISTOR	1	2SB0709A (EG/GCS)
Q7508	2SD1819A0L	TRANSISTOR	1	(EG/GCS)
Q7509	2SC2295	TRANSISTOR	1	(EG/GCS)
Q7510	2SB709A	TRANSISTOR	1	2SB0709A (EG/GCS)
Q7511,12	2SD0601A0L	TRANSISTOR	2	(EG/GCS)
Q7513	2SD1819A0L	TRANSISTOR	1	(EG/GCS)
Q7515	2SD1119-R	TRANSISTOR	1	2SD11190R (EG/GCS)
Q7516	2SB710A	TRANSISTOR	1	2SB0710A (EG/GCS)
QR4001-07	UNR521100L	TRANSISTOR	7	(EG/GCS)
QR4012	UN5113TW	TRANSISTOR	1	(EG/GCS)
QR7401-03	UN5213TX	TRANSISTOR	3	UNR521300L (EG/GCS)
QR7404	UNR511400L	TRANSISTOR	1	(EG/GCS)
QR7405	UN5213TX	TRANSISTOR	1	UNR521300L (EG/GCS)
QR7501	UN5213TX	TRANSISTOR	1	UNR521300L (EG/GCS)
QR7502	UN5113TW	TRANSISTOR	1	(EG/GCS)
QR7503	UN5212-TX	TRANSISTOR	1	UNR521200L (EG/GCS)
R1501	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
R1502	ERJ3GEYJ471V	1/16W 470	1	(EG/GCS)
R1515	ERDS2FJ271	1/4W 270	1	(EG/GCS)
R3005,06	ERJ3GEYJ102V	1/16W 1K	2	(EG/GCS)
R3007,08	ERJ3GEYJ330V	1/16W 33	2	D0GB330JA002 (EG/GCS)
R3009,10	ERJ3RBD202	1/16W 2K	2	(EG/GCS)
R3011,12	ERJ3RBD362	1/16W 3.6K	2	(EG/GCS)
R3013,14	ERJ3GEYJ102V	1/16W 1K	2	(EG/GCS)
R3015	ERJ3GEYJ471V	1/16W 470	1	(EG/GCS)
R3016	ERJ3GEYJ102V	1/16W 1K	1	(EG/GCS)
R3017,18	ERJ3GEYJ330V	1/16W 33	2	D0GB330JA002 (EG/GCS)
R3022-24	MCR03PZHJ561	1/16W 560	3	(EG/GCS)
R3025	ERJ3GEYJ152V	1/16W 1.5K	1	(EG/GCS)
R3026	ERJ3GEYJ102V	1/16W 1K	1	(EG/GCS)
R3027,28	ERJ3GEY0R00V	1/16W 0	2	(EG/GCS)
R3029	ERJ3GEYJ102V	1/16W 1K	1	(EG/GCS)
R3031,32	MCR03PZHJ561	1/16W 560	2	(EG/GCS)
R3033,34	ERJ3GEY0R00V	1/16W 0	2	(EG/GCS)
R3036	ERJ3GEYJ221V	1/16W 220	1	(EG/GCS)
R3037	ERJ3GEYJ272V	1/16W 2.7K	1	(EG/GCS)
R3038-40	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002 (EG/GCS)
R3041,42	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002 (EG/GCS)
R3043	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EG/GCS)
R3044	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
R3045	ERJ3GEYJ102V	1/16W 1K	1	(EG/GCS)
R3046,47	ERJ3GEYJ221V	1/16W 220	2	(EG/GCS)
R3048-50	ERJ3GEYJ101	1/16W 100	3	D0GB101JA002 (EG/GCS)
R3051	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002 (EG/GCS)
R3052	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002 (EG/GCS)
R3056,57	ERJ3GEYJ102V	1/16W 1K	2	(EG/GCS)
R3058-60	ERJ3GEYJ331V	1/16W 330	3	(EG/GCS)
R3061	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
R3062	ERJ3GEYJ102V	1/16W 1K	1	(EG/GCS)
R3063	ERJ3RBD333V	1/16W 33K	1	(EG/GCS)
R3064	ERJ3RBD562V	1/16W 5.6K	1	(EG/GCS)
R3065	ERJ3RBD333V	1/16W 33K	1	(EG/GCS)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3066	ERJ3RBD562V	1/16W 5.6K	1	(EG/GCS)
R3067	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
R3068	ERJ3RBD333V	1/16W 33K	1	(EG/GCS)
R3069	ERJ3RBD562V	1/16W 5.6K	1	(EG/GCS)
R3070	ERJ3RBD333V	1/16W 33K	1	(EG/GCS)
R3071	ERJ3RBD562V	1/16W 5.6K	1	(EG/GCS)
R3072	ERJ3RBD333V	1/16W 33K	1	(EG/GCS)
R3073	ERJ3RBD562V	1/16W 5.6K	1	(EG/GCS)
R3074	ERJ3RBD333V	1/16W 33K	1	(EG/GCS)
R3075	ERJ3RBD562V	1/16W 5.6K	1	(EG/GCS)
R3076	ERJ3RBD333V	1/16W 33K	1	(EG/GCS)
R3077	ERJ3RBD562V	1/16W 5.6K	1	(EG/GCS)
R3078-83	ERJ6GEYJ750V	1/10W 75	6	(EG/GCS)
R3084	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 (EG/GCS)
R3085	ERJ3GEYJ102V	1/16W 1K	1	(EG/GCS)
R3086	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002 (EG/GCS)
R3087	ERJ3GEYJ102V	1/16W 1K	1	(EG/GCS)
R3088	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002 (EG/GCS)
R3091,92	ERJ3GEY0R00V	1/16W 0	2	(EG/GCS)
R4001	ERJ6GEYJ102V	1/10W 1K	1	(EG/GCS)
R4002	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EG/GCS)
R4003	ERJ3GEYJ334V	1/16W 330K	1	(EG/GCS)
R4004,05	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002 (EG/GCS)
R4006	ERJ3GEYJ334V	1/16W 330K	1	(EG/GCS)
R4007	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EG/GCS)
R4008,09	ERJ3GEYJ823V	1/16W 82K	2	D0GB823JA002 (EG/GCS)
R4010,11	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002 (EG/GCS)
R4012	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002 (EG/GCS)
R4013	ERJ6GEYJ102V	1/10W 1K	1	(EG/GCS)
R4014	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EG/GCS)
R4015	ERJ6GEYJ102V	1/10W 1K	1	(EG/GCS)
R4016	ERJ3GEYJ225V	1/16W 2.2M	1	(EG/GCS)
R4017	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EG/GCS)
R4019,20	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002 (EG/GCS)
R4021,22	ERJ3GEYJ823V	1/16W 82K	2	D0GB823JA002 (EG/GCS)
R4023	ERJ6GEYJ102V	1/10W 1K	1	(EG/GCS)
R4024	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EG/GCS)
R4027	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EG/GCS)
R4030	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EG/GCS)
R4039,40	ERJ3GEYD153V	1/16W 15K	2	D0HB153ZA002 (EG/GCS)
R4044,45	ERJ3GEY0R00V	1/16W 0	2	(EG/GCS)
R4046,47	JAR0816P752D	1/16W 7.5K	2	D0HB752ZA002 (EG/GCS)
R4055	JAR0816P153D	1/16W 15K	1	D0HB153ZA002 (EG/GCS)
R4057	JAR0816P153D	1/16W 15K	1	D0HB153ZA002 (EG/GCS)
R4066,67	JAR0816P103D	1/16W 10K	2	D0HB103ZA002 (EG/GCS)
R4070	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002 (EG/GCS)
R4071	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002 (EG/GCS)
R4074	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002 (EG/GCS)
R4076	ERJ3GEYJ821V	1/16W 820	1	(EG/GCS)
R4077	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002 (EG/GCS)
R4078,79	ERJ3GEYJ272V	1/16W 2.7K	2	(EG/GCS)
R4080	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002 (EG/GCS)
R4081	ERJ3GEYJ821V	1/16W 820	1	(EG/GCS)
R4087	ERJ3GEYJ102V	1/16W 1K	1	(EG/GCS)
R4088,89	ERJ3GEYJ272V	1/16W 2.7K	2	(EG/GCS)
R4090	ERJ3GEYJ221V	1/16W 220	1	(EG/GCS)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4093	ERJ3GEYJ221V	1/16W 220	1	(EG/GCS)
R4099	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002 (EG/GCS)
R7301	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
R7304	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002 (EG/GCS)
R7307	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
R7309	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EG/GCS)
R7311	ERJ3GEYJ221V	1/16W 220	1	(EG/GCS)
R7312,13	ERJ3GEYG221	1/16W 220	2	(EG/GCS)
R7314,15	ERJ3GEY0R00V	1/16W 0	2	(EG/GCS)
R7317	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
R7319	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
R7322	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
R7324,25	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002 (EG/GCS)
R7401,02	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002 (EG/GCS)
R7403	ERJ3GEYJ392V	1/16W 3.9K	1	(EG/GCS)
R7404	ERJ3GEYJ472V	1/16W 4.7K	1	(EG/GCS)
R7405	ERDS2FJ471	1/4W 470	1	(EG/GCS)
R7406	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 (EG/GCS)
R7407	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EG/GCS)
R7408	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002 (EG/GCS)
R7411	ERG2SJ471E	2W 470	1	(EG/GCS)
R7412	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002 (EG/GCS)
R7413,14	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002 (EG/GCS)
R7415,16	ERJ3GEYJ471V	1/16W 470	2	(EG/GCS)
R7417	ERG2SJ471E	2W 470	1	(EG/GCS)
R7419,20	ERJ3GEYJ151V	1/16W 150	2	(EG/GCS)
R7421,22	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002 (EG/GCS)
R7501	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002 (EG/GCS)
R7502	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EG/GCS)
R7503	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002 (EG/GCS)
R7504	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EG/GCS)
R7505	ERJ3GEYJ102V	1/16W 1K	1	(EG/GCS)
R7506,07	ERJ3GEYJ221V	1/16W 220	2	(EG/GCS)
R7508	ERJ3RBD273V	1/16W 27K	1	(EG/GCS)
R7510	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002 (EG/GCS)
R7511	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 (EG/GCS)
R7512	ERDS2FJ331	1/4W 330	1	(EG/GCS)
R7513	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 (EG/GCS)
R7514	ERDS2FJ3R9	1/4W 3.9	1	(EG/GCS)
R7515	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002 (EG/GCS)
R7516	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002 (EG/GCS)
R7517	ERJ3GEYJ102V	1/16W 1K	1	(EG/GCS)
R7518	ERJ3GEYJ104	1/16W 100K	1	(EG/GCS)
R7519	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EG/GCS)
R7520	ERJ3GEYJ392V	1/16W 3.9K	1	(EG/GCS)
R7521	ERJ3GEYJ102V	1/16W 1K	1	(EG/GCS)
R7522	ERJ3GEYJ104	1/16W 100K	1	(EG/GCS)
R7523	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002 (EG/GCS)
R7524	ERJ3GEYG152	1/16W 1.5K	1	(EG/GCS)
R7525	ERJ3GEYG562V	1/16W 5.6K	1	(EG/GCS)
R7526	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EG/GCS)
R7527	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002 (EG/GCS)
R7528	ERJ3GEYJ472V	1/16W 4.7K	1	(EG/GCS)
R7529	ERJ3GEYJ182V	1/16W 1.8K	1	(EG/GCS)
R7530	ERJ3GEYJ102V	1/16W 1K	1	(EG/GCS)
R7531	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EG/GCS)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7532	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002 (EG/GCS)
R7533,34	ERJ3GEYJ472V	1/16W 4.7K	2	(EG/GCS)
R7535	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 (EG/GCS)
R7536	ERJ3GEYJ472V	1/16W 4.7K	1	(EG/GCS)
R7537	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002 (EG/GCS)
R7538	ERJ3GEYJ273V	1/16W 27K	1	D0GB273JA002 (EG/GCS)
R7539	ERJ3GEYJ225V	1/16W 2.2M	1	(EG/GCS)
R7540	ERJ3GEYJ224V	1/16W 220K	1	D0GB224JA002 (EG/GCS)
R7541	ERJ3GEYJ104	1/16W 100K	1	(EG/GCS)
R7542	ERJ3GEYJ221V	1/16W 220	1	(EG/GCS)
R7543	ERJ3GEYJ104	1/16W 100K	1	(EG/GCS)
R7544	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002 (EG/GCS)
R7545	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EG/GCS)
R7546	ERJ3GEYJ472V	1/16W 4.7K	1	(EG/GCS)
R7547	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 (EG/GCS)
R7548	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
R7549	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002 (EG/GCS)
R7550	ERJ3GEY0R00V	1/16W 0	1	(EG/GCS)
R7551	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EG/GCS)
R7552-54	ERJ3GEYJ101	1/16W 100	3	D0GB101JA002 (EG/GCS)
R7555	ERJ3GEYJ221V	1/16W 220	1	(EG/GCS)
R7556	ERJ3GEYJ472V	1/16W 4.7K	1	(EG/GCS)
R7557,58	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002 (EG/GCS)
R7559	ERJ3GEYJ511	1/16W 510	1	(EG/GCS)
R7560,61	ERJ3GEYJ202V	1/16W 2K	2	(EG/GCS)
R7562	ERJ3GEYJ472V	1/16W 4.7K	1	(EG/GCS)
R7563-68	ERJ3GEYJ101	1/16W 100	6	D0GB101JA002 (EG/GCS)
R7569-71	ERJ3GEYJ472V	1/16W 4.7K	3	(EG/GCS)
R7572,73	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002 (EG/GCS)
R7574	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 (EG/GCS)
R7575	ERJ3GEYG433	1/16W 43K	1	(EG/GCS)
R7576	ERJ3GEYG393V	1/16W 39K	1	(EG/GCS)
R7577-81	ERJ3GEYJ101	1/16W 100	5	D0GB101JA002 (EG/GCS)
R7582	ERJ3GEYJ102V	1/16W 1K	1	(EG/GCS)
R7590-92	ERJ3RBD822	1/16W 8.2K	3	(EG/GCS)
R7593,94	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002 (EG/GCS)
R7595,96	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002 (EG/GCS)
R7598	ERJ3GEYJ181V	1/16W 180	1	(EG/GCS)
R7599	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002 (EG/GCS)
R7600	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EG/GCS)
R7601	ERJ3GEYJ821V	1/16W 820	1	(EG/GCS)
R7602	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002 (EG/GCS)
R7604,05	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002 (EG/GCS)
R7607	ERJ3GEYJ472V	1/16W 4.7K	1	(EG/GCS)
R7617	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002 (EG/GCS)
R7618	ERJ3GEYJ472V	1/16W 4.7K	1	(EG/GCS)
R7619	ERJ3GEYJ104	1/16W 100K	1	(EG/GCS)
R7620-23	ERJ3GEYJ223V	1/16W 22K	4	D0GB223JA002 (EG/GCS)
R7624	ERJ3GEYJ102V	1/16W 1K	1	(EG/GCS)
R7625	ERDS2TJ392T	1/4W 3.9K	1	(EG/GCS)
T7501	ETS13TB119AP	TRANSFORMER	1	(EG/GCS) ⚠
W6,W7	ERJ3GEY0R00V	1/16W 0	2	(EG/GCS)
W501-19	ERJ3GEY0R00V	1/16W 0	19	(EG/GCS)
W520,21	ERJ6GEY0R00V	1/10W 0	2	(EG/GCS)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
W522-27	ERJ3GEY0R00V	1/16W 0	6	(EG/GCS)
W528	ERJ6GEY0R00V	1/10W 0	1	(EG/GCS)
W529-31	ERJ3GEY0R00V	1/16W 0	3	(EG/GCS)
X7301	H0D245500016	CRYSTAL OSCILLATOR	1	(EG/GCS)
X7501	H0D443400035	CRYSTAL OSCILLATOR	1	(EG/GCS)
X7502	H0A327200064	CRYSTAL OSCILLATOR	1	(EG/GCS)
X7503	VSX1043-T	CRYSTAL OSCILLATOR	1	H0D100500006 (EG/GCS)
ZJ7401-04	VJR0978	EARTH ANGLE	4	K9ZZ00000424 (EG/GCS)
~	06	VEP07A51A		
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	
IC7301	TDA9874AH	IC	1	C1AB00001404
IC7302	PST7043-T	IC	1	C0EAH0000051
K7301-03	ERJ3GEY0R00V	1/16W 0	3	
K7305	ERJ3GEY0R00V	1/16W 0	1	
L7303	G0C1R0JA0019	COIL	1	
LB7301,02	VLP0153	COIL	2	J0JCC0000112
LB7303	VLP0150	COIL	1	J0JCC0000021
PK7301	VJR0777B007W	CONNECTOR(7P)	1	K1MM07B00002
PK7302	VJR0777B006W	CONNECTOR(6P)	1	K1MM06B00002
R7301	ERJ3GEY0R00V	1/16W 0	1	
R7304	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
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	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7322	ERJ3GEY0R00V	1/16W 0	1	
R7324,25	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
W6,W7	ERJ3GEY0R00V	1/16W 0	2	
X7301	H0D245500016	CRYSTAL OSCILLATOR	1	
~	07	REP3496A/REP3496C/REP3496CD		
C3202	ECJ1VB1C104K	16V 0.1U	1	
C3203	ECJ1VB1H222K	50V 2200P	1	
C3205	ECJ1VB1C104K	16V 0.1U	1	
C3207	ECJ1VB1H103K	50V 0.01U	1	
C3208	ECJ1VB1C104K	16V 0.1U	1	
C3211	ECJ1VF1C104Z	16V 0.1U	1	
C3213	EEE0JA220SR	6.3V 22U	1	
C3216	ECJ1VB1H103K	50V 0.01U	1	
C3217-26	ECJ1VB1C104K	16V 0.1U	10	
C3227	EEE0JA101SP	6.3V 100U	1	
C3229,30	ECJ1VB1H102K	50V 1000P	2	
C3231	ECJ1VB1H103K	50V 0.01U	1	
C4402	ECJ1VF1C104Z	16V 0.1U	1	
C4403	F2G0J331A015	6.3V 330U	1	
C4406	EEE0JA220SR	6.3V 22U	1	
C4407	ECJ1VF1C104Z	16V 0.1U	1	
C4408	EEE0JA101SP	6.3V 100U	1	
C4410	ECJ1VB1H102K	50V 1000P	1	
C4411	ECJ1VB1H103K	50V 0.01U	1	
C4412,13	ECJ1VB1H102K	50V 1000P	2	
C4415	EEE1EA4R7SR	25V 4.7U	1	
C4416	ECJ1VF1C104Z	16V 0.1U	1	
C4417	ECST1AY106R	10V 10U	1	
C4418,19	ECJ1VF1C104Z	16V 0.1U	2	
C6001	ECJ1VF1C104Z	16V 0.1U	1	
C9001	EEE0JA470SR	6.3V 47U	1	
C9003	EEE0JA470SR	6.3V 47U	1	
C9004	ECJ1VF1C104Z	16V 0.1U	1	
C9005	EEE0JA470SR	6.3V 47U	1	
C9007	F1J0J106A014	6.3V 10U	1	
C9011	EEE0JA470SR	6.3V 47U	1	
C9013	EEE0JA470SR	6.3V 47U	1	
C9014-17	ECJ1VC1H470J	50V 47P	4	
C50007	ECJ1VB1C104K	16V 0.1U	1	
C50008,09	ECJ1VB0J105K	6.3V 1U	2	
C50010	EEE0JA220SR	6.3V 22U	1	
C50013,14	ECJ1VF1C104Z	16V 0.1U	2	
C50015	EEE0JA220SR	6.3V 22U	1	
C50016	ECJ1VF1C104Z	16V 0.1U	1	
C50018	EEE0JA101SP	6.3V 100U	1	
C50025	ECJ1VF1C104Z	16V 0.1U	1	
C50026,27	EEE1CA100SR	16V 10U	2	
C50028	ECJ1VF1C104Z	16V 0.1U	1	
D3201,02	MA3S132E0L	DIODE	2	
D3203,04	MA2ZV0100L	DIODE	2	
D9001	MA3Z142K0LG	DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
FL3205-09	F1H0J1050018	FILTER	5	
FL3212,13	F1H0J1050018	FILTER	2	
FL3216	F1H0J1050018	FILTER	1	
FL3218	F1H0J1050018	FILTER	1	
FL3220	F1H0J1050018	FILTER	1	
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	
FL4401	F1H0J1050018	FILTER	1	
FL6001-06	F1H0J1050018	FILTER	6	
FL6009-13	F1H0J1050018	FILTER	5	
FL6701-03	F1H0J1050018	FILTER	3	
FL9004	F1H0J1050018	FILTER	1	
FL9012,13	F1H0J1050018	FILTER	2	
FL9016	F1H0J1050018	FILTER	1	
FL9020	F1H0J1050018	FILTER	1	
FL9022	F1H0J1050018	FILTER	1	
FL50001,02	F1H0J1050018	FILTER	2	
FL50005-14	F1H0J1050018	FILTER	10	
FL50016-21	F1H0J1050018	FILTER	6	
FL50023	F1H0J1050018	FILTER	1	
FL50025	F1H0J1050018	FILTER	1	
FL50028	F1H0J1050018	FILTER	1	
IC3201	C3ABMG000103	IC	1	
IC3203	MN673744R	IC	1	
IC3204,05	C0JBAB000474	IC	2	
IC3401	C3ABPJ000018	IC	1	
IC3402	MN85572R	IC	1	
IC3403,04	C3ABQG000007	IC	2	
IC3406	MN85620GL	IC	1	
IC4402	C0ABBB000105	IC	1	
IC4403	C0FBAK000008	IC	1	
IC6001	C0EBE0000130	IC	1	
IC6002	C3ABQG000043	IC	1	
IC6004	MNZE0500YDR	IC	1	
IC6006	C3CBKD000119	IC	1	
IC6007	74LCX16244MT	IC	1	C0JBAZ001475
IC6701	C1ZBZ0002255	IC	1	
IC6702	C0JBAB000474	IC	1	
IC6703	REP3496A	IC	1	(EB) DIGITAL P.C.B.
IC6703	REP3496C	IC	1	(EG) DIGITAL P.C.B.
IC6703	REP3496CD	IC	1	(GCS) DIGITAL P.C.B.
IC9001	C0DBZFE00003	IC	1	
IC50001	C1DB00000895	IC	1	
IC50002	C3ABPG000063	IC	1	
IC50003	MN677551NA	IC	1	
IC50004	C3ABPG000063	IC	1	
IC50005	C0JBAR000332	IC	1	
IC50006	C0JBAB000474	IC	1	
IC50010	C0FBBK000035	IC	1	
IC50011	C0CBCBD00002	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC50013	C0JBAD000107	IC	1	
IC50014	C0JBAF000206	IC	1	
IC50015	C0CBCBD00002	IC	1	
LB3202-05	J0JHC0000032	COIL	4	
LB3401,02	J0JHC0000032	COIL	2	
LB4402,03	J0JGC0000020	COIL	2	
LB9001	J0JHC0000032	COIL	1	
LB9003	J0JHC0000045	COIL	1	
LB9005	J0JHC0000032	COIL	1	
LB9006	J0JHC0000045	COIL	1	
LB9009	J0JHC0000032	COIL	1	
LB9012	J0JHC0000045	COIL	1	
LB9013-16	ERJ3GEY0R00V	1/16W 0	4	
LB9020,21	VLP0323A601T	COIL	2	J0JCC0000103
LB9038	VLP0323A601T	COIL	1	J0JCC0000103
LB50001	J0JHC0000032	COIL	1	
LB50003	J0JGC0000020	COIL	1	
LB50004,05	J0JHC0000032	COIL	2	
LB50006	J0JGC0000020	COIL	1	
P3401	K1MN40A00018	CONNECTOR(40P)	1	
P6001	K1KA06A00328	CONNECTOR(6P)	1	
P9001-03	K1KB30A00135	CONNECTOR(30P)	3	
Q3201	2SB1218A	TRANSISTOR	1	
Q3202	2SD1819A0L	TRANSISTOR	1	
Q6701-05	2SD0601A0L	TRANSISTOR	5	
Q50001-05	2SB1218A	TRANSISTOR	5	
QR3401	UN521L	TRANSISTOR	1	UNR521L
QR3402,03	UN5213TX	TRANSISTOR	2	UNR521300L
R3202	ERJ3GEY0R00V	1/16W 0	1	
R3204	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3205	ERJ3GEYJ622V	1/16W 6.2K	1	
R3211,12	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R3216	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3217,18	ERJ3GEYJ220V	1/16W 22	2	
R3219	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R3220,21	ERJ3RBD682V	1/16W 6.8K	2	
R3222	ERJ3GEYJ104	1/16W 100K	1	
R3223	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3224	ERJ3GEYJ102V	1/16W 1K	1	
R3226	ERJ3GEY0R00V	1/16W 0	1	
R3232	ERJ3GEYJ220V	1/16W 22	1	
R3233	ERJ3GEY0R00V	1/16W 0	1	
R3237,38	ERJ3GEY0R00V	1/16W 0	2	
R3239	ERJ3GEYJ104	1/16W 100K	1	
R3240	ERJ3GEYJ105V	1/16W 1M	1	
R3241	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002
R3242	ERJ3GEYJ104	1/16W 100K	1	
R3401	ERJ3GEYJ220V	1/16W 22	1	
R3403	ERJ3GEY0R00V	1/16W 0	1	
R3406	ERJ3GEYJ220V	1/16W 22	1	
R3407,08	ERJ3GEYJ820V	1/16W 82	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
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	ERJ3GEY0R00V	1/16W 0	1	
R3426	ERJ3GEYJ220V	1/16W 22	1	
R3427	ERJ3GEY0R00V	1/16W 0	1	
R4403,04	ERJ3RBD103V	1/16W 10K	2	
R4405,06	ERJ3RBD682V	1/16W 6.8K	2	
R4407,08	ERJ3RBD103V	1/16W 10K	2	
R4411	ERJ3GEYJ221V	1/16W 220	1	
R4412-15	ERJ3GEY0R00V	1/16W 0	4	
R6001,02	ERJ3GEYJ332V	1/16W 3.3K	2	D0GB332JA002
R6003,04	ERJ3GEYJ222V	1/16W 2.2K	2	D0GB222JA002
R6005	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6007-09	ERJ3GEYJ470V	1/16W 47	3	
R6010	ERJ3GEYJ102V	1/16W 1K	1	
R6011	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6013,14	ERJ3GEYJ330V	1/16W 33	2	D0GB330JA002
R6015	ERJ3GEYJ105V	1/16W 1M	1	
R6016	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6017	ERJ3GEYJ470V	1/16W 47	1	
R6019	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6020	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6021	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R6022	ERJ3GEYJ221V	1/16W 220	1	
R6701,02	ERJ3GEYJ332V	1/16W 3.3K	2	D0GB332JA002
R6704,05	ERJ3GEYJ470V	1/16W 47	2	
R6706	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6707	ERJ3GEYJ104	1/16W 100K	1	
R6708	ERJ3GEY0R00V	1/16W 0	1	
R6709-18	ERJ3GEYJ470V	1/16W 47	10	
R6719	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6720,21	ERJ3GEYJ470V	1/16W 47	2	
R6722	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6723,24	ERJ3GEYJ470V	1/16W 47	2	
R6728	ERJ3GEYJ104	1/16W 100K	1	
R6730	ERJ3GEYJ102V	1/16W 1K	1	
R6739	ERJ3GEYJ470V	1/16W 47	1	
R6742	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6745	ERJ3GEYJ470V	1/16W 47	1	
R6746	ERJ3GEY0R00V	1/16W 0	1	
R6748	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6756	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6759	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6760	ERJ3GEYJ472V	1/16W 4.7K	1	
R6761	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R9015	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R50001	ERJ3GEYJ220V	1/16W 22	1	
R50002-04	ERJ3GEYJ470V	1/16W 47	3	
R50005,06	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R50007	ERJ3GEYJ220V	1/16W 22	1	
R50008-10	ERJ3GEYJ470V	1/16W 47	3	
R50012	ERJ3GEY0R00V	1/16W 0	1	
R50013	ERJ3RBD273V	1/16W 27K	1	
R50014	ERJ3GEYJ820V	1/16W 82	1	
R50015	ERJ3RBD153	1/16W 15K	1	
R50017	ERJ3GEYJ390	1/16W 39	1	
R50018	ERJ3GEY0R00V	1/16W 0	1	
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	ERJ3GEY0R00V	1/16W 0	1	
R50034	ERJ3RED750V	1/16W 75	1	
R50035	ERJ3GEYJ102V	1/16W 1K	1	
R50036	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50037	ERJ3GEY0R00V	1/16W 0	1	
R50038	ERJ3RED750V	1/16W 75	1	
R50039	ERJ3GEYJ102V	1/16W 1K	1	
R50040	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50041	ERJ3GEY0R00V	1/16W 0	1	
R50042	ERJ3RED750V	1/16W 75	1	
R50043	ERJ3RBD273V	1/16W 27K	1	
R50044-47	ERJ3GEY0R00V	1/16W 0	4	
R50048	ERJ3RBD182V	1/16W 1.8K	1	
R50049	ERJ3RBD223	1/16W 22K	1	
R50052	ERJ3GEY0R00V	1/16W 0	1	
R50053-55	ERJ3GEYJ470V	1/16W 47	3	
R50058	ERJ3GEYJ220V	1/16W 22	1	
R50060	ERJ3GEY0R00V	1/16W 0	1	
RA3201-04	D1H82204A024	RESISTOR-RESISTOR	4	
RA3205-08	D1H83304A024	RESISTOR-RESISTOR	4	
RA3209,10	D1H82204A024	RESISTOR-RESISTOR	2	
RA3211,12	D1H8R0040009	RESISTOR-RESISTOR	2	
RA3401-16	D1H82204A024	RESISTOR-RESISTOR	16	
RA3419-24	D1H81034A024	RESISTOR-RESISTOR	6	
RA3425,26	D1H82204A024	RESISTOR-RESISTOR	2	
RA3433	D1H82204A024	RESISTOR-RESISTOR	1	
RA3435,36	D1H82204A024	RESISTOR-RESISTOR	2	
RA3439-41	D1H82204A024	RESISTOR-RESISTOR	3	
RA50009-16	D1H82204A024	RESISTOR-RESISTOR	8	
RA50017	D1H81034A024	RESISTOR-RESISTOR	1	
RA50018-25	D1H82204A024	RESISTOR-RESISTOR	8	
RA50026-29	D1H84704A024	RESISTOR-RESISTOR	4	
RX6001,02	D1H83334A024	RESISTOR-RESISTOR	2	
RX6003-05	D1H83324A024	RESISTOR-RESISTOR	3	
RX6006	D1H81034A024	RESISTOR-RESISTOR	1	
RX6007,08	D1H83304A024	RESISTOR-RESISTOR	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RX6009-12	D1H84704A024	RESISTOR-RESISTOR	4	
RX6013-17	D1H83304A024	RESISTOR-RESISTOR	5	
RX6018	D1H84704A024	RESISTOR-RESISTOR	1	
RX6019	D1H83304A024	RESISTOR-RESISTOR	1	
RX6020	D1H84704A024	RESISTOR-RESISTOR	1	
RX6021	D1H83304A024	RESISTOR-RESISTOR	1	
RX6022	D1H84704A024	RESISTOR-RESISTOR	1	
RX6025	D1H83304A024	RESISTOR-RESISTOR	1	
RX6026	D1H84704A024	RESISTOR-RESISTOR	1	
RX6027	D1H81034A024	RESISTOR-RESISTOR	1	
RX6030-33	D1H84704A024	RESISTOR-RESISTOR	4	
RX6034-48	D1H83304A024	RESISTOR-RESISTOR	15	
RX6701,02	D1H83324A024	RESISTOR-RESISTOR	2	
RX6703	D1H81034A024	RESISTOR-RESISTOR	1	
RX6704	D1H84724A024	RESISTOR-RESISTOR	1	
RX6705	D1H81034A024	RESISTOR-RESISTOR	1	
RX6706-13	D1H84704A024	RESISTOR-RESISTOR	8	
RX6714	D1H81034A024	RESISTOR-RESISTOR	1	
RX6715-19	D1H84704A024	RESISTOR-RESISTOR	5	
RX6720	D1H81034A024	RESISTOR-RESISTOR	1	
RX6721-28	D1H84704A024	RESISTOR-RESISTOR	8	
RX6729	D1H83334A024	RESISTOR-RESISTOR	1	
RX6730	D1H84704A024	RESISTOR-RESISTOR	1	
RX6731	D1H82224A024	RESISTOR-RESISTOR	1	
RX6732	D1H84704A024	RESISTOR-RESISTOR	1	
RX6733	D1H83334A024	RESISTOR-RESISTOR	1	
RX6735-38	D1H84704A024	RESISTOR-RESISTOR	4	
RX6739,40	D1H83334A024	RESISTOR-RESISTOR	2	
RX6741-44	D1H83324A024	RESISTOR-RESISTOR	4	
RX6745	D1H83334A024	RESISTOR-RESISTOR	1	
RX6746	D1H81034A024	RESISTOR-RESISTOR	1	
RX6747	D1H83324A024	RESISTOR-RESISTOR	1	
RX6748,49	D1H84724A024	RESISTOR-RESISTOR	2	
X3202	H0J540500006	CRYSTAL OSCILLATOR	1	
X3401	H2D400500001	CRYSTAL OSCILLATOR	1	
X6001	H2D330500001	CRYSTAL OSCILLATOR	1	
~	09	REP3528CB		
C7001	ECJ1VF1A105Z	10V 1U	1	
C7003	ECJ1VF1C104Z	16V 0.1U	1	
C7004	ECJ1VB1H103K	50V 0.01U	1	
C7005,06	ECUV1H221JCV	50V 220P	2	ECJ1VC1H221J
C7009,10	ECJ1VC1H470J	50V 47P	2	
D7001	LNJ201LPQJA	LED	1	
IR7001	PNA4618M13VT	REMOTE SENSOR	1	
JK7001	K1U413A00005	JACK,AV IN	1	
K7002	ERJ3GEY0R00V	1/16W 0	1	
LB7001-05	VLP0323A601T	COIL	5	J0JCC0000103

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
P7001	K1KA20B00132	CONNECTOR(20P)	1	
QR7001	UN2214TX	TRANSISTOR	1	UNR221400L
R7001	ERDS2FJ391	1/4W 390	1	
R7002	ERJ3GEYJ102V	1/16W 1K	1	
R7008-10	ERJ3GEYJ750	1/16W 75	3	
R7011	ERDS2FJ330	1/4W 33	1	
S7003	EVQ11G07K	SWITCH	1	
~	10	REP3528AA		
D7801	B3ABA0000396	DIODE	1	
P7801	K1KA10B00196	CONNECTOR(10P)	1	
QR7801	UN2214TX	TRANSISTOR	1	UNR221400L
R7801	ERJ3RBD122V	1/16W 1.2K	1	
R7802	ERJ3RBD152V	1/16W 1.5K	1	
R7803	ERJ3RBD222V	1/16W 2.2K	1	
R7804	ERJ3RBD332	1/16W 3.3K	1	
R7807	ERJ3RBD122V	1/16W 1.2K	1	
R7808	ERJ3RBD152V	1/16W 1.5K	1	
R7809	ERJ3RBD222V	1/16W 2.2K	1	
R7810	ERJ3RBD332	1/16W 3.3K	1	
R7811	ERJ3RBD562V	1/16W 5.6K	1	
R7812	ERJ3RBD113V	1/16W 11K	1	
R7813	ERJ3RBD333V	1/16W 33K	1	
R7814	ERJ3RBD122V	1/16W 1.2K	1	
R7821	ERDS2FJ221	1/4W 220	1	
S7801	K0L1BA000056	SWITCH	1	
S7802-05	EVQ11G07K	SWITCH	4	
S7808-16	EVQ11G07K	SWITCH	9	
~	11	REP3533A		
C3901	ECJ1VB1H103K	50V 0.01U	1	
C3902	ECEA0JKS470	6.3V 47U	1	
C3903	ECEA1AKS221	10V 220U	1	
C3904	ECEA1CKS220	16V 22U	1	
C3905	ECEA1AKS221	10V 220U	1	
C3906	ECEA1CKS220	16V 22U	1	
C3907	ECEA1AKS221	10V 220U	1	
C3908	ECEA1CKS220	16V 22U	1	
C3909	ECEA0JKS470	6.3V 47U	1	
C3910,11	ECA1CAK100XB	16V 10U	2	
C3914-17	ECA1HAK010XI	50V 1U	4	
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	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
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	ECA1CAK101XB	16V 100U	1	
C3934	ECJ1VB1H103K	50V 0.01U	1	
C3935	ECA1CAK101XB	16V 100U	1	
C3938	ECJ1VF1C104Z	16V 0.1U	1	
C3939	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	
D3901	MA2C165001VT	DIODE	1	
D3903	MA3Z142D0RG	DIODE	1	
D3905,06	MAZ4051NMF	DIODE	2	
IC3901	C1AB00001776	IC	1	
IC3902	BA7660FS-E2	IC	1	C9ZB00000282
JK3904,05	K1FB121A0003	JACK,AV 1/AV 2	2	
LB3901	J0JGC0000020	COIL	1	
LB3907,08	J0JGC0000020	COIL	2	
LB3911-13	J0JGC0000020	COIL	3	
LB3922,23	J0JGC0000020	COIL	2	
LB3925	J0JGC0000020	COIL	1	
PS3901	VJS3042F020W	CONNECTOR(20P)	1	K1KB20B00027
PS3902	VJS3042F012W	CONNECTOR(12P)	1	K1KB12B00030
PS3903	VJS3042F015W	CONNECTOR(15P)	1	K1KB15B00013
Q3901	2SD1819A0L	TRANSISTOR	1	
Q3905	2SD132800L	TRANSISTOR	1	
Q3906	2SB710A	TRANSISTOR	1	2SB0710A
Q3908	2SB1218A	TRANSISTOR	1	
Q3909,10	2SD132800L	TRANSISTOR	2	
QR3908	UN5212-TX	TRANSISTOR	1	UNR521200L
QR3909	UNR521100L	TRANSISTOR	1	
QR3913	UN5212-TX	TRANSISTOR	1	UNR521200L
QR3914,15	UN2215-TX	TRANSISTOR	2	UNR221500L
R3901	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3902	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R3903	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R3904	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3905	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R3906	ERJ3GEYJ102V	1/16W 1K	1	
R3907	ERJ3GEYJ273V	1/16W 27K	1	D0GB273JA002
R3908,09	ERJ6GEYJ471V	1/10W 470	2	
R3910	ERJ3RBD151	1/16W 150	1	
R3911,12	ERJ3GEYJ222V	1/16W 2.2K	2	D0GB222JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3913	ERJ3RBD181V	1/16W 180	1	
R3914	ERJ3RBD151	1/16W 150	1	
R3919	ERJ3RBD151	1/16W 150	1	
R3921	ERJ6GEYG750	1/10W 75	1	
R3922,23	ERJ6GEYJ471V	1/10W 470	2	
R3924	ERDS2FJ471	1/4W 470	1	
R3925-28	ERJ6GEYG750	1/10W 75	4	
R3929,30	ERJ6GEYJ471V	1/10W 470	2	
R3931-33	ERJ3RED750V	1/16W 75	3	
R3934,35	ERJ6GEYG750	1/10W 75	2	
R3962	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
R3972,73	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3975,76	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R3977,78	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3979,80	ERJ6GEYJ471V	1/10W 470	2	
R3981,82	ERJ3GEYJ821V	1/16W 820	2	
R3983,84	ERJ3GEYJ104	1/16W 100K	2	
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
ZA3901-04	VMC1450	EARTH PLATE	4	
~	12	REP3534A		
C3501-03	ECEA0JKS470	6.3V 47U	3	
C3504	ECJ1VB1H103K	50V 0.01U	1	
C3505-07	ECEA1EKN3R3B	25V 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	ECEA0JKS470	6.3V 47U	1	
C3514	ECJ1VB1C104K	16V 0.1U	1	
C3515	ECEA0JKS101	6.3V 100U	1	
C3516	ECJ1VB1C104K	16V 0.1U	1	
C3517	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	
C3522	ECEA1CKS100	16V 10U	1	
C3523	ECEA0JKS470	6.3V 47U	1	
C3524	ECJ1VB1C104K	16V 0.1U	1	
C3526	ECEA0JKN470	6.3V 47U	1	
C3528	ECJ1VB1C104K	16V 0.1U	1	
C3575	ECEA1EKN3R3B	25V 3.3U	1	
C3578	ECJ1VB1C104K	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
FL3501	ELB4E042B	FILTER	1	
IC3501	C1AB00000773	IC	1	
IC3502	C0JBAR000292	IC	1	
IC3509	C1AA00000016	IC	1	
L3502	G0C100JA0019	COIL 10UH	1	
LB3501,02	J0JHC0000032	COIL	2	
PS3501	VJS3042F008W	CONNECTOR(8P)	1	K1KB08B00028
PS3502	VJS3042F012W	CONNECTOR(12P)	1	K1KB12B00030
Q3501-04	2SD0601A0L	TRANSISTOR	4	
Q3505	2SC2295	TRANSISTOR	1	
Q3506	2SA10220BL	TRANSISTOR	1	
Q3507,08	2SB709A	TRANSISTOR	2	2SB0709A
Q3509,10	2SD0601A0L	TRANSISTOR	2	
R3501	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R3502	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R3503	ERJ3GEY0R00V	1/16W 0	1	
R3504	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3505,06	ERJ3GEYJ102V	1/16W 1K	2	
R3507	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R3508	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R3509	ERJ3GEYJ102V	1/16W 1K	1	
R3510	ERJ3GEY0R00V	1/16W 0	1	
R3511	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
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
R3521,22	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R3523	ERJ3GEYJ563V	1/16W 56K	1	
R3524	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3525	ERJ3RBD913	1/16W 91K	1	
R3526	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R3527	ERJ3RBD471V	1/16W 470	1	
R3528	ERJ3GEYJ102V	1/16W 1K	1	
R3529	ERJ3RBD681V	1/16W 680	1	
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	
R3539	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R3540	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R3541	ERJ3GEYJ102V	1/16W 1K	1	
R3582	ERJ3GEYJ272V	1/16W 2.7K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
VC3516,17	ECRLA030E53R	VR	2	
VR3501	EVMECSA00B53	VR	1	
X3501	H0D443400037	CRYSTAL OSCILLATOR	1	
~	13	ETXMM444E4G		
C001	KH101K	100P	1	⚠
C002	KH102M	1000P	1	⚠
C003,04	ECQU2A224ML	0.22U	2	⚠
C005	KH101K	100P	1	⚠
C006-08	KH102M	1000P	3	⚠
C009	KMM2W470JZ	450V 47U	1	
C010-12	MBB105K1	16V 1U	3	
C013	MBC102J5	50V 1000P	1	
C014	MBC681J5	50V 680P	1	
C016	CD102M	1000P	1	⚠
C017	ECJ2VB1H103K	50V 0.01U	1	
C018	MBB105K1	16V 1U	1	
C019	MBB104K5	50V 0.1U	1	
C020	RR3AD102K	1KV 1000P	1	
C022	KY1V330Z	35V 33U	1	
C023	DE2SL680J	2KV 68P	1	
C102,03	MBC102J5	50V 1000P	2	
C104	KMG1H2R2	50V 2.2U	1	
C106	ECA1AHG102	10V 1000U	1	
C107	KY1A681L	10V 680U	1	
C109	ECA1EHG102	25V 1000U	1	
C110	ECA1CHG471B	16V 470U	1	
C112	KMG1C471	16V 470U	1	
C114,15	MBB105K1	16V 1U	2	
C116	ECQB1H102JF	50V 1000P	1	
C118	MBB104K2	25V 0.1U	1	
C119	ECQB1H333JF	50V 0.033U	1	
C120	MBB104K2	25V 0.1U	1	
C121	KY1A471	10V 470U	1	
C122	KMG1E470	25V 47U	1	
C123	KY0J152	6.3V 1500U	1	
C124	TBB224K2	25V 0.22U	1	
C125,26	KY1A221	10V 220U	2	
C127	KMG1V470	35V 47U	1	
C129	MBC101K2D	200V 100P	1	
C301	MBC102J5	50V 1000P	1	
C302	MBB104K2	25V 0.1U	1	
C304	MBB333K5	50V 0.033U	1	
C306	MBB105K1	16V 1U	1	
C307	MBB104K2	25V 0.1U	1	
C308	MBB105K1	16V 1U	1	
C309-11	MBB104K2	25V 0.1U	3	
C312	MBB103K5	25V 0.01U	1	
C313	ECJ2VB1H333K	50V 0.033U	1	
C314	MBB333K5	50V 0.033U	1	
C315	ECJ2VB1H333K	50V 0.033U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C316	MBB224K2	25V 0.22U	1	
D001	1SWB60	DIODE	1	⚠
D002	1SS355	DIODE	1	B0ACCK000005
D004	1SS355	DIODE	1	B0ACCK000005
D006	M1FL20U	DIODE	1	
D007	AP01C	DIODE	1	B0HADV000010
D008	AL01Z	DIODE	1	B0HAMM000077
D101	RL2ZLF	DIODE	1	B0HANM000021
D103	RK46	DIODE	1	B0JAPG000009
D104,05	RK36	DIODE	2	
D106	RN2Z	DIODE	1	
D107,08	MA165TA5	DIODE	2	MA2C16500E
D112	ERA15-04	DIODE	1	B0EAKP000016
D113,14	1SS355	DIODE	2	B0ACCK000005
D115,16	GPP20J	DIODE	2	
D119	GPP20J	DIODE	1	
D301-05	1SS355	DIODE	5	B0ACCK000005
F001	19181-2A	FUSE	1	⚠
F101	19396-2.5A	FUSE	1	⚠
IC001	FA13844N	IC	1	
IC102	AN1431T	IC	1	
IC301,02	NJM2904M	IC	2	C0ABBA000021
IP101	ICPN15	IC PROTECTOR	1	⚠
IP102	ICPN25	IC PROTECTOR	1	⚠;
L001,02	ELF15N005A	FILTER	2	⚠
L003	V35VB680K	FILTER	1	
L004,05	EXCELDR35	FILTER	2	
L101	EXCELSA24	FILTER	1	
L103,04	EXCELSA24	FILTER	2	
L105	EXCELDR35	FILTER	1	
L108	LHLZ2R2M	FILTER	1	
L110	LH8TB100K	FILTER	1	
L111	EXCELDR35	FILTER	1	
L112	LHLZ4R7M	FILTER	1	
L113	EXCELDR35	FILTER	1	
L114	LHLZ1R5M	FILTER	1	
L115	EXCELSA24	FILTER	1	
L118,19	EXCELSA24	FILTER	2	
P001	M2023	AC INLET	1	⚠
PC001	0N3171	PHOTO COUPLER	1	CNC1S171 ⚠
PS102	TWGP15XA1	CONNECTOR	1	
PS103	127602110K	CONNECTOR	1	
PS105	TWGP19XA1	CONNECTOR	1	
Q001,02	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q003	2SK2718	TRANSISTOR	1	⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q004	UN2213	TRANSISTOR	1	UNR2213
Q101	2SB709A	TRANSISTOR	1	2SB0709A
Q102	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q103	UPA1717G	TRANSISTOR	1	
Q104	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q105	UN221L	TRANSISTOR	1	UNR221L
Q106	UN2111	TRANSISTOR	1	UNR2111
Q107	UPA1720G	TRANSISTOR	1	
Q108	2SB766A	TRANSISTOR	1	2SB0766A
Q109	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q301	2SK3366	TRANSISTOR	1	
Q302	2SD602A-R	TRANSISTOR	1	2SD0602AR
Q303	2SB710A	TRANSISTOR	1	2SB0710A
Q304	2SD2000	TRANSISTOR	1	
Q305	2SB1218A	TRANSISTOR	1	
Q306	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q307	2SD1328-R	TRANSISTOR	1	2SD13280R
Q308	2SB1218A	TRANSISTOR	1	
Q309	2SB709A	TRANSISTOR	1	2SB0709A
R001	ERDS1FJ223	0.5W 22K	1	
R002	ERDS1FJ105	0.5W 1M	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	
R008,09	CR10J473	0.1W 47K	2	
R010	CR10J104	0.1W 100K	1	
R011	CR10F6810	0.1W 681	1	
R012	ER0S2CHF1621	0.25W 1.62K	1	
R013	CR10J102	0.1W 1K	1	
R015	CR10J333	0.1W 33K	1	
R016,17	CR10J101	0.1W 100	2	
R020	CR10J101	0.1W 100	1	
R021	CR10J561	0.1W 560	1	
R022	CR10J222	0.1W 2.2K	1	
R023	CR10J822	0.1W 8.2K	1	
R025,26	ERJ12YJ4R7	0.5W 4.7	2	
R027,28	ERJ12YJ224	0.5W 220K	2	
R029,30	CR100R00	0	2	
R032	ERG1SJ102	1W 1K	1	
R102	CR10J100	0.1W 10	1	
R104,05	CR10J100	0.1W 10	2	
R106	ERDS2FJ100	0.25W 10	1	
R112	CR10J152	0.1W 1.5K	1	
R113	CR10J471	0.1W 470	1	
R114	CR100R00	0	1	
R115-19	CR10JR16	0.1W 0.16	5	
R120	CR10J6R8	0.1W 6.8	1	
R121	CR10J100	0.1W 10	1	
R122	ER0S2TKF4420	0.25W 4.4K	1	
R123	ERJ6GEYG821	0.1W 820	1	
R124	CR10J102	0.1W 1K	1	
R125	CR10J101	0.1W 100	1	
R126	CR10J222	0.1W 2.2K	1	
R127	CR10J101	0.1W 100	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R128	CR10J561	0.1W 560	1	
R129	CR10J101	0.1W 100	1	
R130	ERDS2FJ121	0.25W 120	1	
R131	CR10J102	0.1W 1K	1	
R132	CR10J471	0.1W 470	1	
R133,34	CR10J682	0.1W 6.8K	2	
R135	ER0S2TKF1430	0.25W 14K	1	
R136	CR10J822	0.1W 8.2K	1	
R137	CR10J102	0.1W 1K	1	
R138	CR10J822	0.1W 8.2K	1	
R139	CR10J103	0.1W 10K	1	
R140	ERDS1FJ821	0.5W 820	1	
R141	CR10J822	0.1W 8.2K	1	
R142	ERJ6GEYG821	0.1W 820	1	
R143	CR10J103	0.1W 10K	1	
R144	CR10J272	0.1W 2.7K	1	
R148-52	CR10JR16	0.1W 0.16	5	
R159	ERDS2FJ470	0.25W 47	1	
R162,63	CR10J100	0.1W 10	2	
R301	CR10J101	0.1W 100	1	
R302,03	CR10J103	0.1W 10K	2	
R304	CR10J472	0.1W 4.7K	1	
R305	CR10J102	0.1W 1K	1	
R306	CR10J472	0.1W 4.7K	1	
R307	CR10J683	0.1W 68K	1	
R308	CR10J472	0.1W 4.7K	1	
R309	CR10J822	0.1W 8.2K	1	
R310	CR10J752	0.1W 7.5K	1	
R311	CR10J103	0.1W 10K	1	
R312	CR10J102	0.1W 1K	1	
R313	ERDS1FJ271	0.5W 270	1	
R314	CR10J472	0.1W 4.7K	1	
R315	CR10J822	0.1W 8.2K	1	
R316,17	CR10J103	0.1W 10K	2	
R318	CR10J223	0.1W 22K	1	
R319	CR10F2210	0.1W 221	1	
R320	CR10J223	0.1W 22K	1	
R321	CR10F2210	0.1W 221	1	
R322	CR10F1002	0.1W 10K	1	
R323	CR10F3321	0.1W 3.32K	1	
R324	CR10J103	0.1W 10K	1	
R325	CR10F1002	0.1W 10K	1	
R326	CR10F3321	0.1W 3.32K	1	
R327	CR10J103	0.1W 10K	1	
R328,29	CR10J473	0.1W 47K	2	
R330	CR10F6981	0.1W 6.98K	1	
R331	CR10F4642	0.1W 46.4K	1	
R332	CR10F5901	0.1W 5.9K	1	
R333	CR10F4642	0.1W 46.4K	1	
R334	ERJ6ENF5231	0.1W 5.23K	1	
R335	CR10F4752	0.1W 47.5K	1	
R336	ERJ6ENF5231	0.1W 5.23K	1	
R337	CR10F4752	0.1W 47.5K	1	
R338,39	ERJ6ENF1622V	0.1W 16.2K	2	
R340,41	CR10F3320	0.1W 332	2	
R342	ERJ6GEYG271	0.1W 270	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R343	CR10J102	0.1W 1K	1	
R344,45	CR10J103	0.1W 10K	2	
T001	ETB28BF1L6A	TRANSFORMER	1	⚠
TH001	NC21F104J	THERMISTOR	1	
VR102	EVMEASA01B52	V.R.	1	
Z002	ERZVGAD471	VARISTOR	1	
ZD001	RD91EB	DIODE	1	
ZD002	MA8270	DIODE	1	
ZD101	MA8039	DIODE	1	
ZD102	MA8027	DIODE	1	
ZD103	MA4075N	DIODE	1	
ZD104	MA8051	DIODE	1	
ZD301	MA8051	DIODE	1	
ZD302,03	MAZ8051	DIODE	2	
~	20	JIG TOOLS		
	RFKZ0164	EXTENSION CABLE	1	DIGITAL-MAIN (30pin x 3)
	RFKZ0165	EXTENSION CABLE	1	FRONT(L) (20pin)
	RFKZ0166	EXTENSION CABLE	1	FRONT(R) (10pin)
	RFKZ0167	EXTENSION P.C.B.	1	RGB
	RFKZ0168	EXTENSION CABLE	1	FAN MOTOR (3pin)
	RFKZ0125	EXTENSION FFC	1	RAM-DIGITAL (40pin)
	RFKZ0170	EXTENSION CABLE	1	POWER SUPPLY-MAIN (19pin)
	RFKZ0171	EXTENSION CABLE	1	POWER SUPPLY-MAIN (15pin)