

# DVD PLAYER DVD-S830

## SERVICE MANUAL

DVD-S830

### IMPORTANT NOTICE

This manual has been provided for the use of authorized YAMAHA Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically YAMAHA Products, are already known and understood by the users, and have therefore not been restated.

**WARNING:** Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components, and failure of the product to perform as specified. For these reasons, we advise all YAMAHA product owners that any service required should be performed by an authorized YAMAHA Retailer or the appointed service representative.

**IMPORTANT:** The presentation or sale of this manual to any individual or firm does not constitute authorization, certification or recognition of any applicable technical capabilities, or establish a principle-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research, engineering, and service departments of YAMAHA are continually striving to improve YAMAHA products. Modifications are, therefore, inevitable and specifications are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

**WARNING:** Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires connect to this buss).

**IMPORTANT:** Turn the unit OFF during disassembly and part replacement. Recheck all work before you apply power to the unit.

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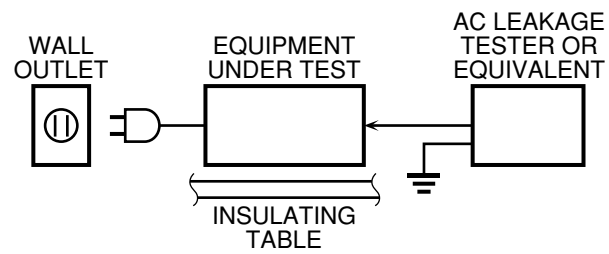


このサービスマニュアルは、エコマーク認定の再生紙を使用しています。  
This Service Manual uses recycled paper.



## ■ TO SERVICE PERSONNEL

1. Critical Components Information  
Components having special characteristics are marked  and must be replaced with parts having specifications equal to those originally installed.
2. Leakage Current Measurement (For 120V Models Only)  
When service has been completed, it is imperative to verify that all exposed conductive surfaces are properly insulated from supply circuits.
  - Meter impedance should be equivalent to 1500 ohm shunted by 0.15 $\mu$ F.



- Leakage current must not exceed 0.5mA.
- Be sure to test for leakage with the AC plug in both polarities.

## WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the production of this product contains LEAD. In addition, other electrical/electronic and/or plastic (where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects or other reproductive harm.

DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHATSOEVER!

Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor!

If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

## WARNING: Laser Safety

This product contains a laser beam component. This component may emit invisible, as well as visible radiation, which may cause eye damage. To protect your eyes and skin from laser radiation, the following precautions must be used during servicing of the unit.

- 1) When testing and/or repairing any component within the product, keep your eyes and skin more than 30 cm away from the laser pick-up unit at all times. Do not stare at the laser beam at any time.
- 2) Do not attempt to readjust, disassemble or repair the laser pick-up, unless noted elsewhere in this manual.
- 3) CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

## Laser Emitting conditions:

- 1) When the Top Cover is removed, and the "STANDBY/ON" SW is turned to the "ON" position, the laser component will emit a beam for several seconds to detect if a disc is present. During this time (5-10 sec.) the laser may radiate through the lens of the laser pick-up unit. Do not attempt any servicing during this period!  
If no disc is detected, the laser will stop emitting the beam. When a disc is set, you will not be exposed to any laser emissions.
- 2) The laser power level can be adjusted with the VR on the pick-up PWB. However, this level has been set by the factory prior to shipping from the factory. Do not adjust this laser level control unless instruction is provided elsewhere in this manual.  
Adjustment of this control can increase the laser emission level from the device.

## Laser Diode Properties

Type: Semiconductor laser GaAlAs  
 Wave length: 658 nm (DVD)  
 790 nm (VCD/CD)  
 Output Power: CLASS IIa 1mW (DVD)  
 CLASS I 1mW (VCD/CD)

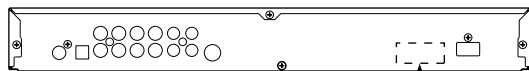
**VARO!** : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASER-SÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

**VARNING!**: OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.

## WARNING

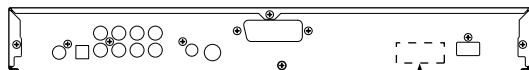
The use of optical instruments with this product will increase eye hazard.  
Repair handling should take place as much as possible with a disc loaded inside the player

### A, R models



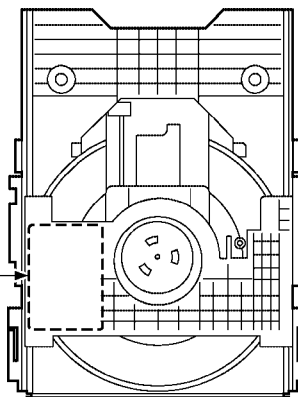
CLASS 1 LASER PRODUCT  
LASER KLASSE 1 PRODUKT  
LUOKAN 1 LASERLAITE  
KLASS 1 LASER APPARAT  
PRODUIT LASER DE CLASSE 1

### B, G models



CLASS 1 LASER PRODUCT  
LASER KLASSE 1 PRODUKT  
LUOKAN 1 LASERLAITE  
KLASS 1 LASER APPARAT  
PRODUIT LASER DE CLASSE 1

<b>DANGER</b>	- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (FDA 21 CFR)
<b>CAUTION</b>	- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. (IEC60825-1)
<b>ATTENTION</b>	- RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
<b>ADVARSEL</b>	- SYNLIG OG USYNLIG LASERSTRÅLNING VED ÅBNING. UNDGÅ EKSPONERING FOR STRÅLEN.
<b>VARO!</b>	- AVATTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASER-SÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
<b>VARNING</b>	- SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
<b>ADVARSEL</b>	- SYNLIG OG USYNLIG LASERSTRÅLNING NÄR DEKSEL ÅPNES. UNDGÅ EKSPONERING FOR STRÅLEN.
<b>VORSICHT</b>	- SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEOFFNET. NICHT DEM STRAHL AUSSETZEN.
<b>注意</b>	- 打开时有可见及不可见激光辐射。避免激光束照射。
<b>注意</b>	- ここを開くと可燃品が不可燃のレーザー光が出ます。 ビームを直射したり、照れたりしないでください。 ROL S0233



DVD-S830

## ■ PREVENTION OF ELECTRO STATIC DISCHARGE

The laser diode in the traverse unit (optical pickup) may be damaged due to static electricity from clothes or the human body. Use caution to prevent electrostatic damage when servicing or handling the laser diode.

### 1. Grounding for Electrostatic Damage Prevention

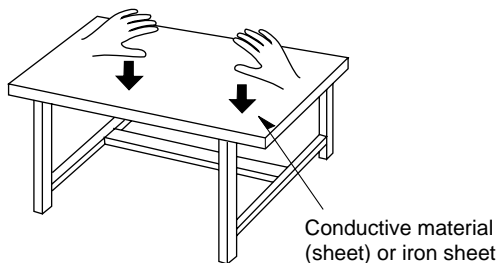
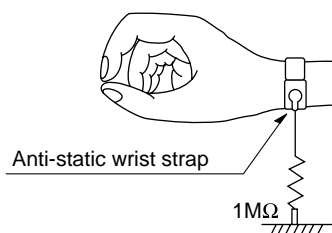
Some devices, such as the DVD player, use an optical pickup (laser diode) that will be damaged by static electricity in the working environment. Only attempt service after ensuring that all grounding procedures have been completed.

#### 1. Worktable grounding

Put a grounded conductive material (sheet) or iron sheet on the area where the optical pickup is placed.

#### 2. Human body grounding

Use an anti-static wrist strap to discharge the static electricity from your body.



## 2. Handling of the Optical Pickup

1. To prevent damage to the optical pickup replacement parts during transportation and before installation, both ends of the laser diode are short-circuited. After installing the new part, remove the short circuit according to the correct procedure in this service manual.
2. Do not use a tester to check the laser diode in the optical pickup. The power supply in the tester will damage the laser diode.

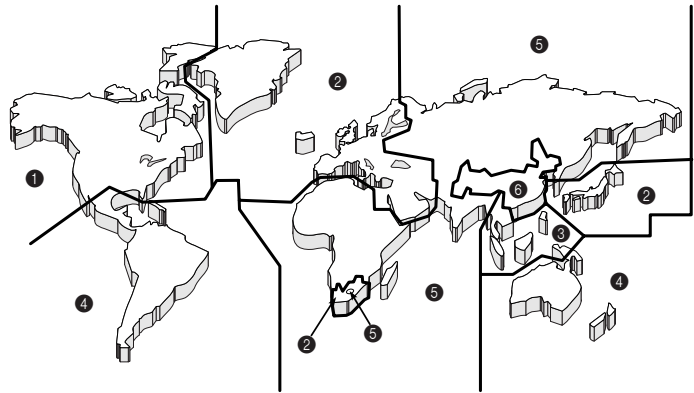
## 3. Handling Precautions for the Traverse Unit (Optical Pickup)

1. Handle the traverse unit (optical pickup) gently, as it is an extremely high-precision assembly.
2. The flexible cable lines may break if an excessive force is applied to it. Use caution when handling the cable.
3. The semi-fixed resistor for laser power adjustment should not be adjusted. Do not turn the resistor.

## ■ LOCALE MANAGEMENT INFORMATION

Locale Management Information : This DVD player is designed and manufactured to respond to the Locale Management Information that is recorded on the DVD disc. If the Locale number described on the DVD disc does not correspond to the Locale number of this DVD player, this DVD player cannot play this disc.

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## ■ FRONT PANELS

DVD-S830 (A, R models)



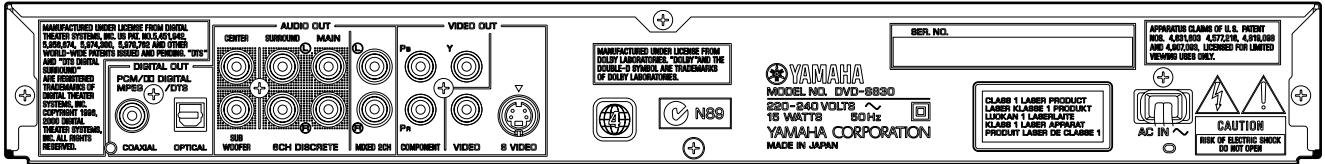
DVD-S830 (B, G models)



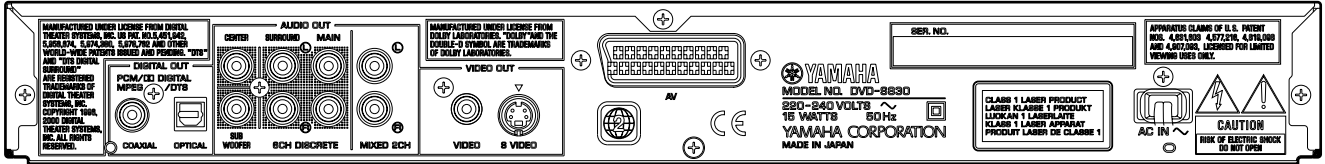


## REAR PANELS

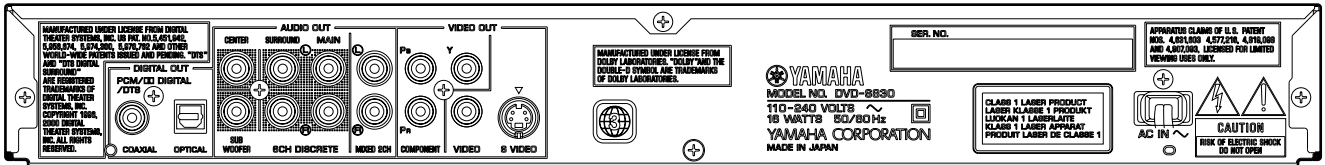
DVD-S830 (A model)



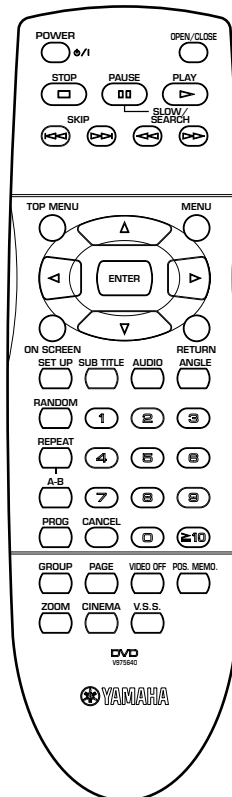
DVD-S830 (B, G models)



DVD-S830 (R model)



## REMOTE CONTROL PANEL



DVD-S830

## ■ SPECIFICATIONS

**Signal System:** PAL 625/50, PAL525/60, NTSC

**Operating Temperature Range:** +5 to +35°C

**Operating Humidity Range:**  
5 to 90 % RH (no condensation)

**Discs Played [8 cm or 12 cm]:**

- (1) DVD-Audio
- (2) DVD-Video
- (3) DVD+RW/DVD+R
- (4) DVD-R/DVD-RW (DVD-Video compatible)
- (5) CD-Audio (CD-DA)
- (6) Video CD
- (7) CD-R/CD-RW (CD-DA, Video-CD formatted discs)
- (8) MP3

•Maximum Number of Tracks and Groups Recognizable:  
999 tracks and 99 groups

•Compatible Compression Rate:  
between 32 kbps and 320 kbps

**Video Output:**

Output Level: 1 Vp-p (75 Ω)  
Output Terminal: Pin jack (1 system)

**S Video Output:**

Y Output Level: 1 Vp-p (75 Ω)  
C Output Level:  
NTSC; 0.286 Vp-p (75 Ω)  
PAL; 0.300 Vp-p (75 Ω)  
Output Terminal: S terminal (1 system)

**RGB Video Output [B, G models]:**

R Output Level: 0.7 Vp-p (75 Ω)  
G Output Level: 0.7 Vp-p (75 Ω)  
B Output Level: 0.7 Vp-p (75 Ω)  
Output Connector: SCART

**Component Video Output [A, R models]:**

(NTSC: 480P/480I, PAL: 576I)  
Y Output Level: 1 Vp-p (75 Ω)  
P<sub>B</sub> Output Level: 0.7 Vp-p (75 Ω)  
P<sub>R</sub> Output Level: 0.7 Vp-p (75 Ω)  
Output Connector: Pin jack  
(Y: green, P<sub>B</sub> : blue, P<sub>R</sub> : red)

Number of Connectors: 1 system

**Audio Output:**

Output Level: 2 Vrms (1 kHz, 0 dB)  
Output Connector: Pin jack  
Number of Connectors:  
2 Channel: 1 system  
5.1-channel Discrete Output (5.1 Channel): 1 system

**Audio Performance:**

- (1) Frequency Response:
  - DVD (linear audio): 2 Hz–22 kHz (48 kHz sampling)  
2 Hz–44 kHz (96 kHz sampling)
  - DVD-Audio: 2 Hz–88 kHz (192 kHz sampling)
  - CD audio: 2 Hz –20 kHz
- (2) S/N Ratio:
  - CD audio: 115 dB
- (3) Dynamic Range:
  - DVD (linear audio): 102 dB
  - CD audio: 98 dB
- (4) Total Harmonic Distortion:
  - CD audio: 0.0025 %

**Digital Audio Output:**

Optical Digital Output: Optical terminal  
Coaxial Digital Output: Pin jack

**Pickup:** Wave Length: 658 nm/790 nm  
Laser power: CLASS 2/CLASS 1

**Power Supply:**

A, B, G models: AC 220–240 V, 50 Hz  
R model: AC 110–240 V, 50/60 Hz

**Power Consumption:**

A, B, G models: 15 W  
R model: 16 W

**Standby Power Consumption:** approx. 4 W

**Dimensions (W x H x D):** 435 x 60 x 258 mm  
(17-1/8" x 2-3/8" x 10-1/8")

**Weight:** 3.3 kg (7 lbs. 4 oz.)

**Finish:**

Gold color: R model  
Black color: A, B, G models  
Titanium color: B, G models

**Accessories:**

Remote Control, Batteries, Audio/Video Cable, Power Cable

\* Specifications are subject to change without notice due to product improvements.

A ..... Australian model      B ..... British model  
G ..... European model        R .... General model



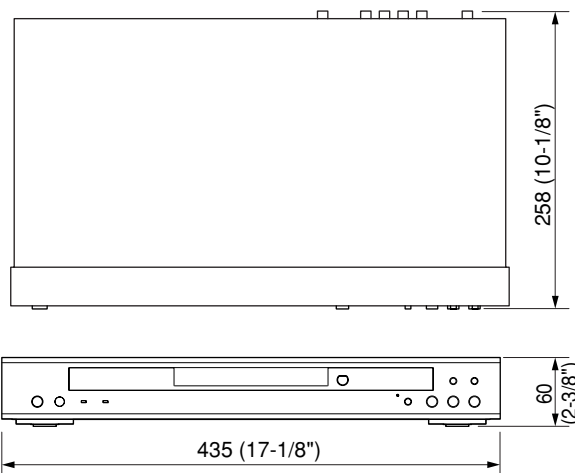
Manufactured under license from Dolby Laboratories.

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"DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

## ● DIMENSIONS

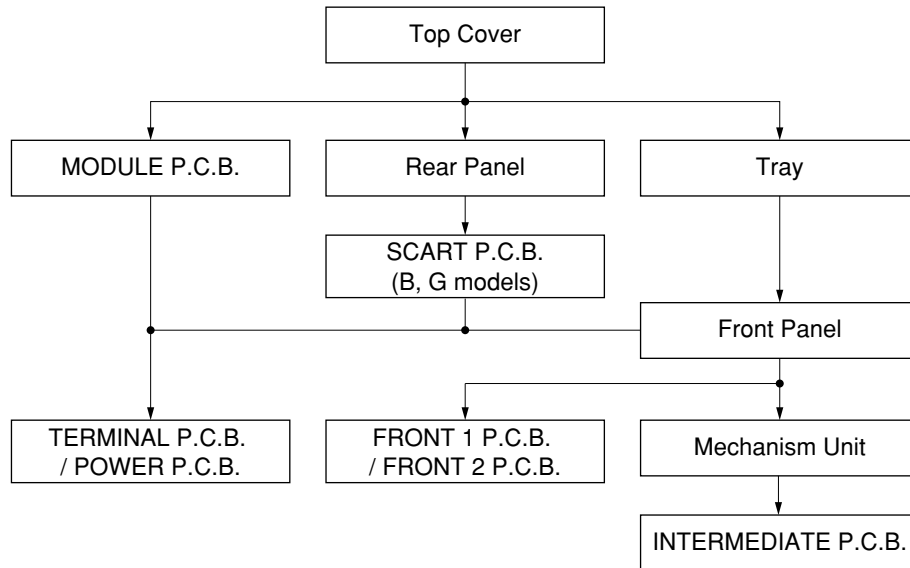


Unit : mm (inch)  
単位 : mm (インチ)

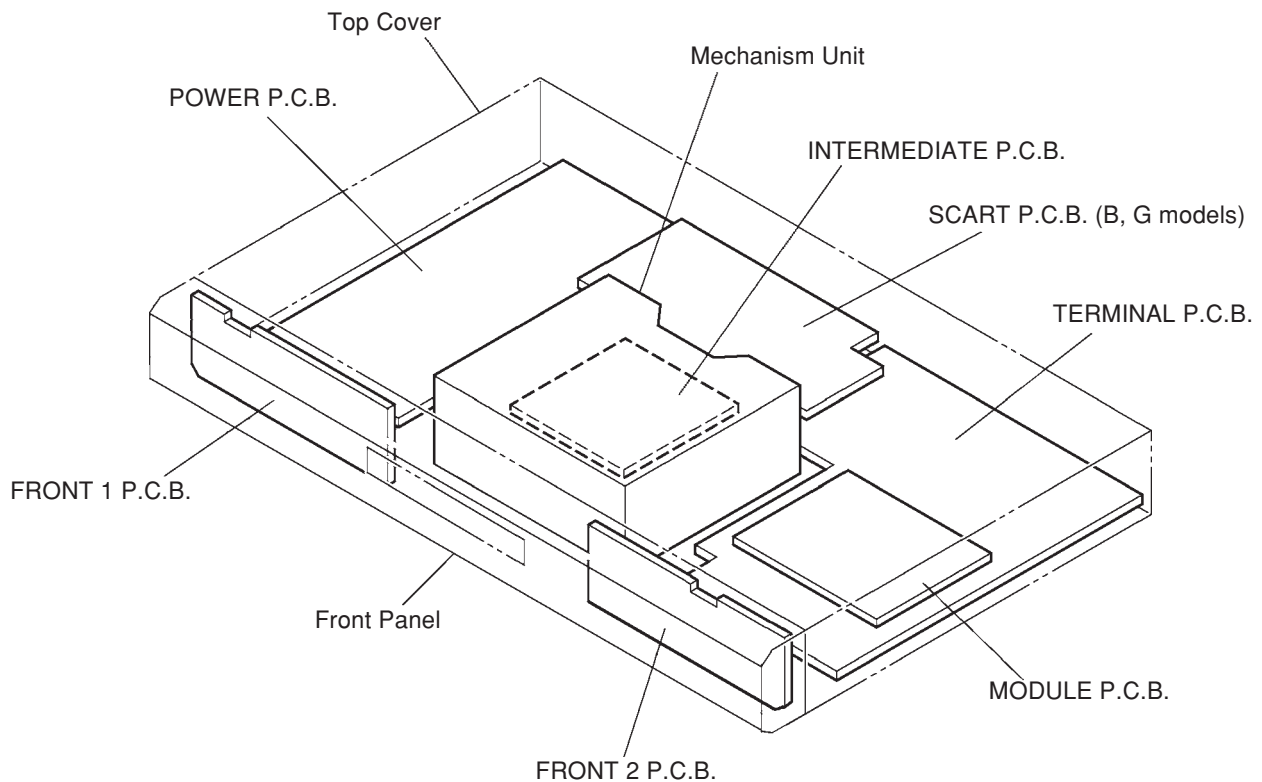
## ■ DISASSEMBLY PROCEDURES AND SERVICE POSITION

(Remove parts in the order as numbered.)  
 Disconnect the power cable from the AC outlet.

### 1. Disassembly Procedure

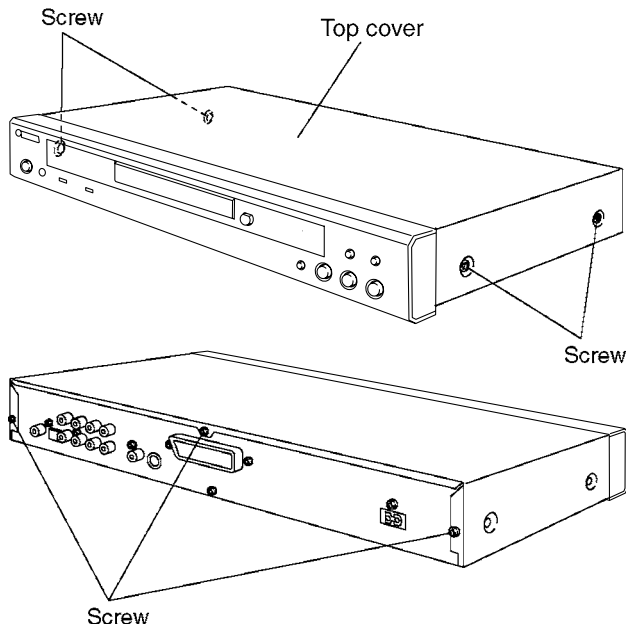


### 2. Casing Parts and P.C.B. Locations



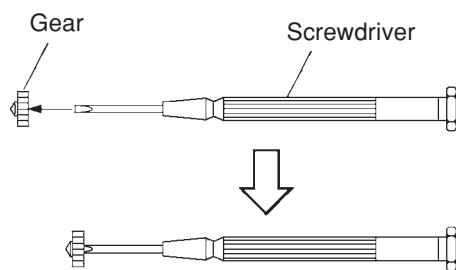
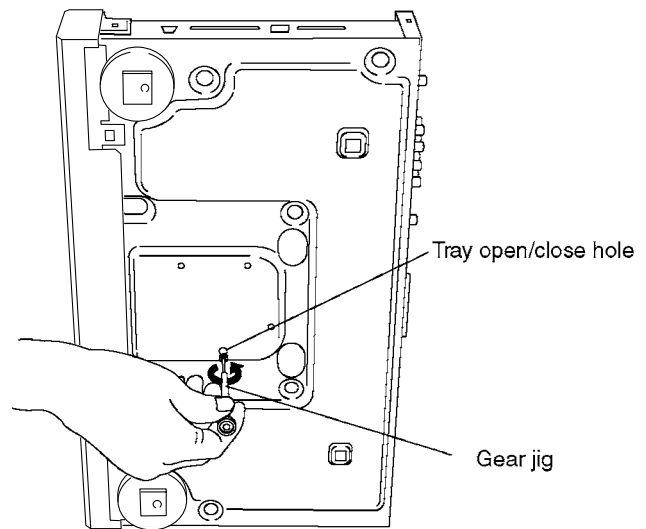
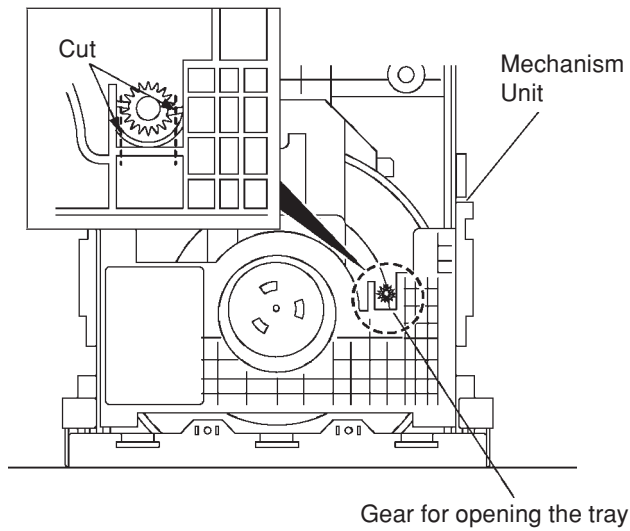
### 3. Top Cover

Remove the screws.

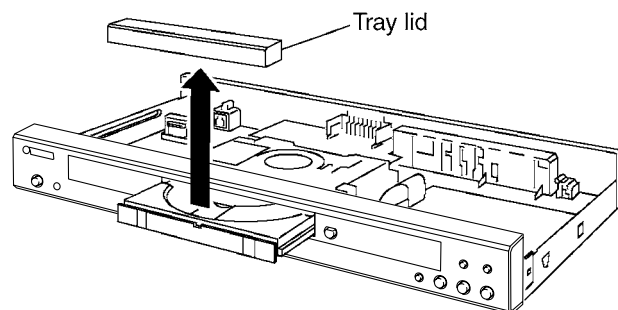


### 4. Tray

1. Remove the gear for opening the tray from the mechanism unit and install it onto a screwdriver to make a gear jig.
2. Insert the gear jig into the tray open/close hole.
3. Turn the gear jig counterclockwise to open the tray.
4. Remove the tray lid from the tray section.

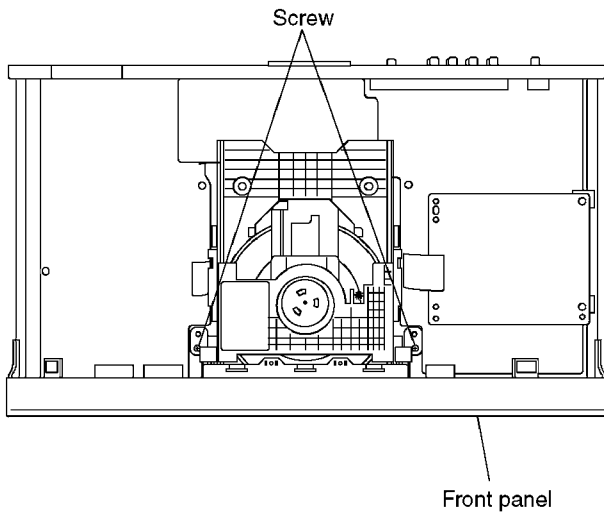


<Gear jig>

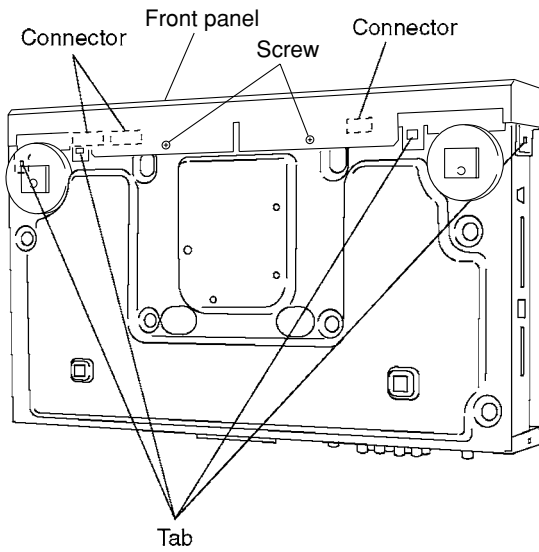


### 5. Front Panel

1. Remove the screws.

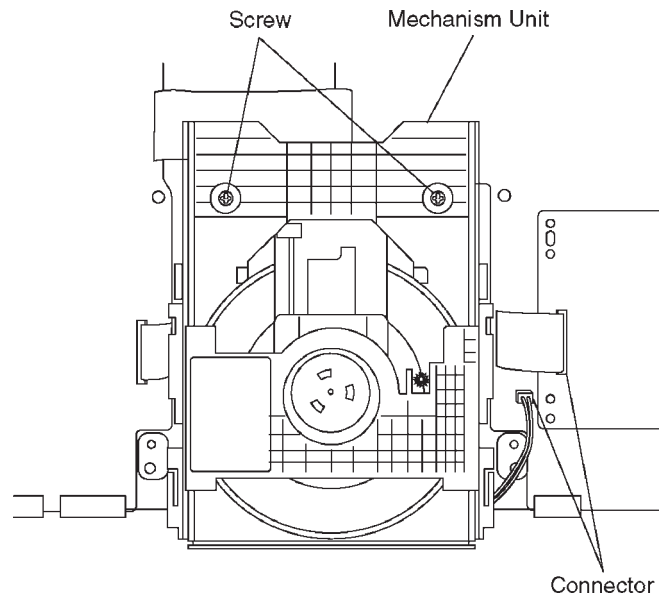


2. Release the tabs.
3. Remove the connectors.



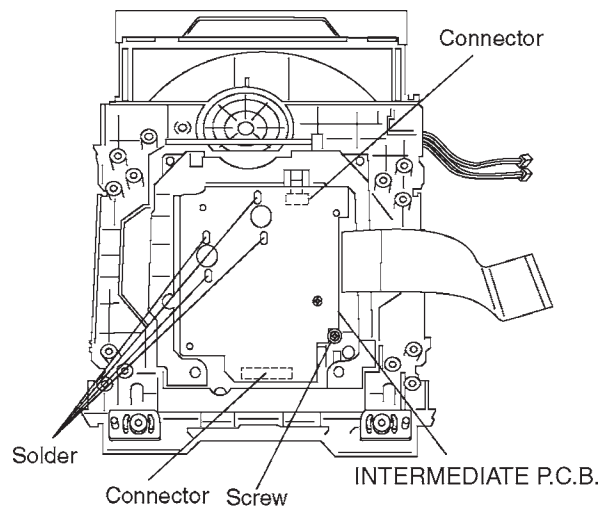
### 6. Mechanism Unit

1. Remove the screws.
2. Remove the connectors.
3. Pull out the mechanism unit vertically.



### 7. INTERMEDIATE P.C.B.

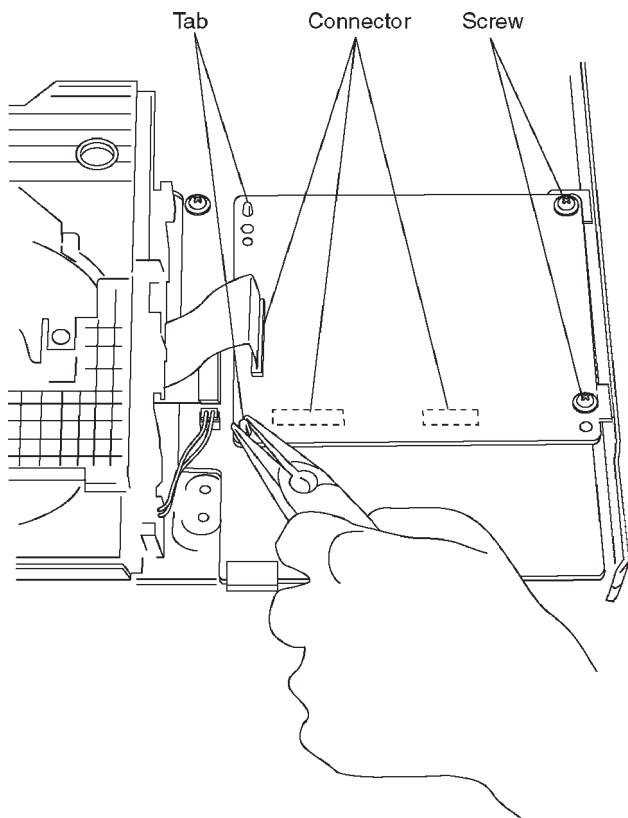
1. Remove the screws.
2. Remove the solders.
3. Remove the connectors.



<Mechanism unit bottom>

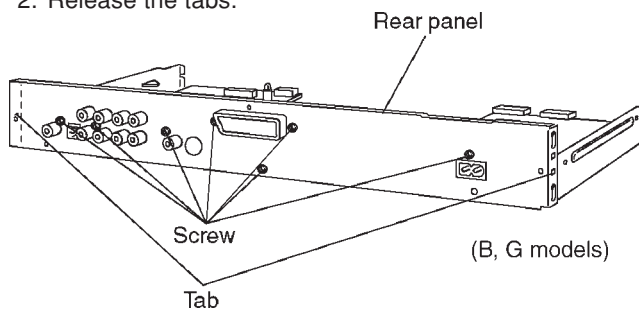
### 8. MODULE P.C.B.

1. Remove the screws.
2. Remove the connectors.
3. Squeeze each tab with pliers to pull out the MODULE P.C.B. vertically.



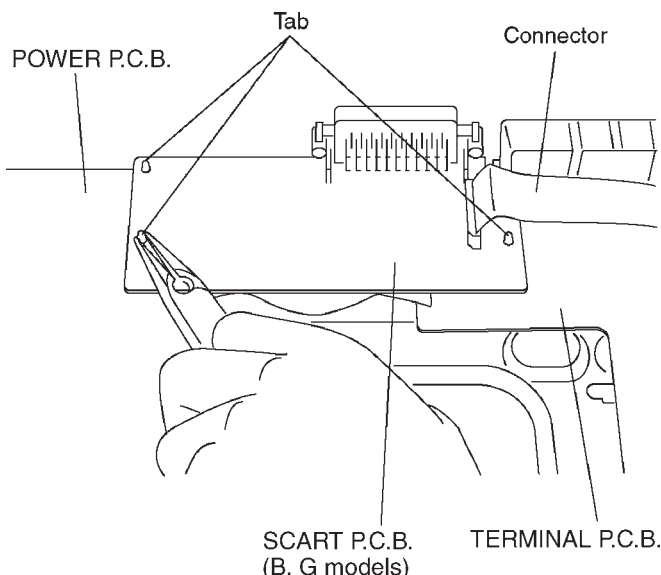
### 10. Rear Panel

1. Remove the screws.
2. Release the tabs.



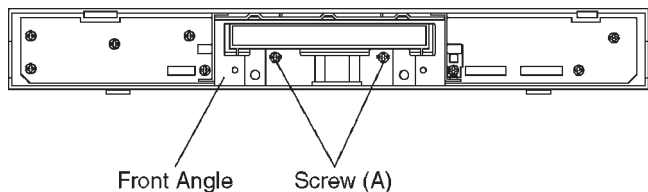
### 11. SCART P.C.B. (B, G models)

1. Remove the connectors.
2. Squeeze each tab with pliers to pull out the SCART P.C.B. vertically.

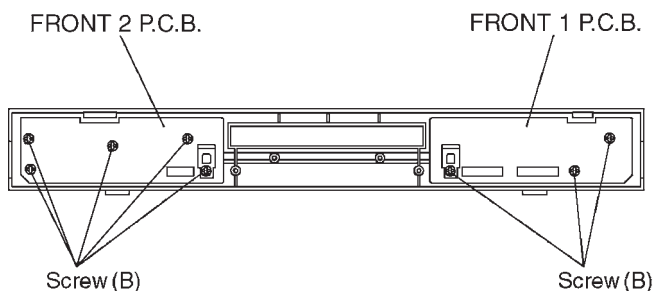


### 9. FRONT 1 P.C.B. and FRONT 2 P.C.B.

1. Remove the screws (A).
2. Remove the Front Angle.

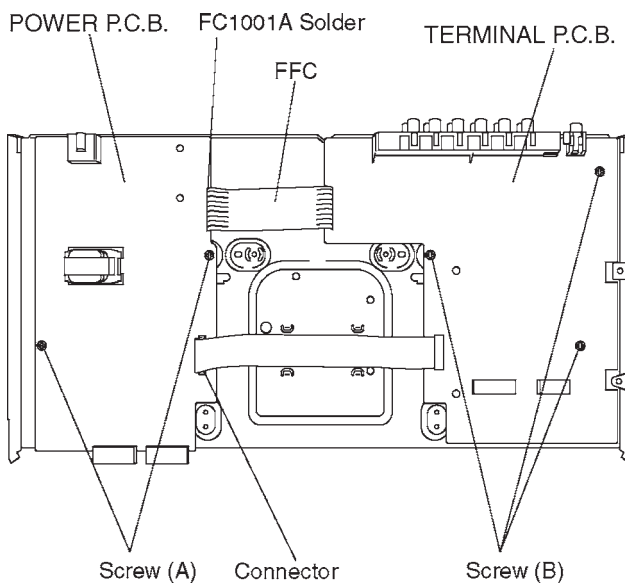


3. Remove the screws (B).



### 12. TERMINAL and POWER P.C.B.

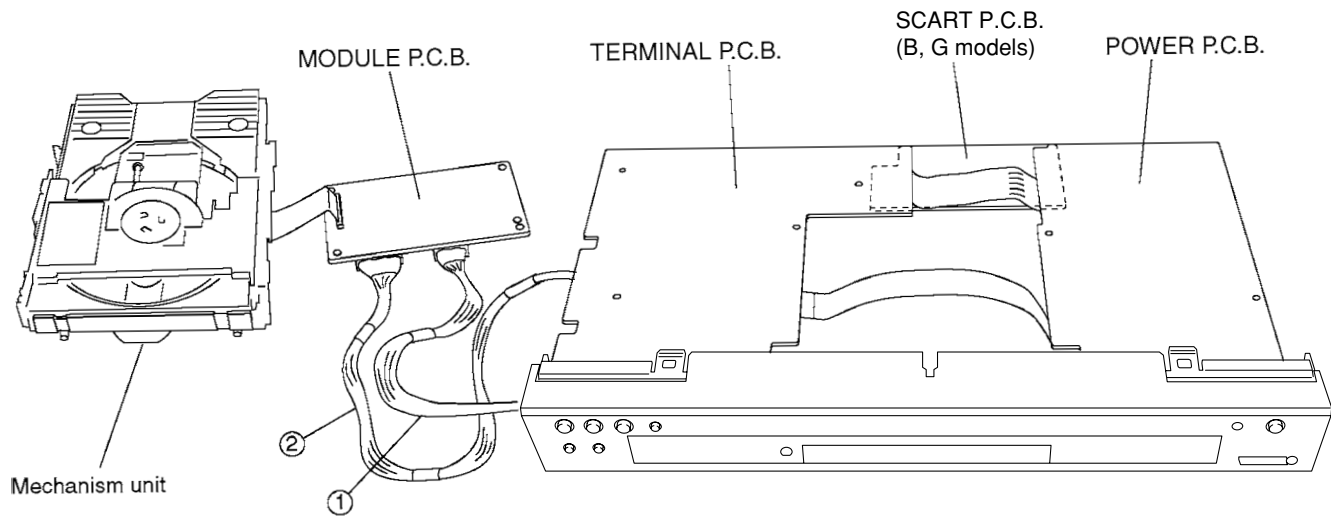
1. Remove the connectors
2. Remove the screws.
3. Remove the FC1001A Solder.



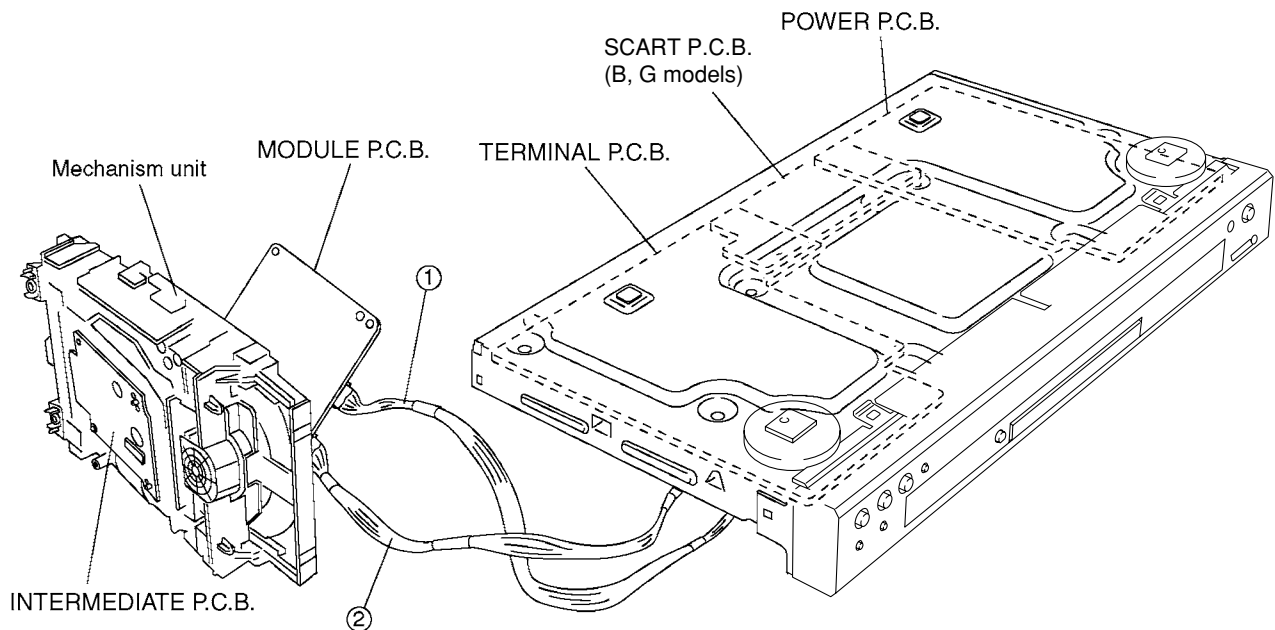
DVD-S830

## 13. Servicing Position

### 13.1. Servicing position of the MODULE P.C.B.



### 13.2. Servicing position of the INTERMEDIATE P.C.B.



### 13.3. List of the Extension Cables

①	TX946370	26 pins	PS4201 (MODULE P.C.B.) – PP4301 (TERMINAL P.C.B.)	JGS0098
②	AAX16610	22 pins	PS3201 (MODULE P.C.B.) – PP3201 (TERMINAL P.C.B.)	JGS0116

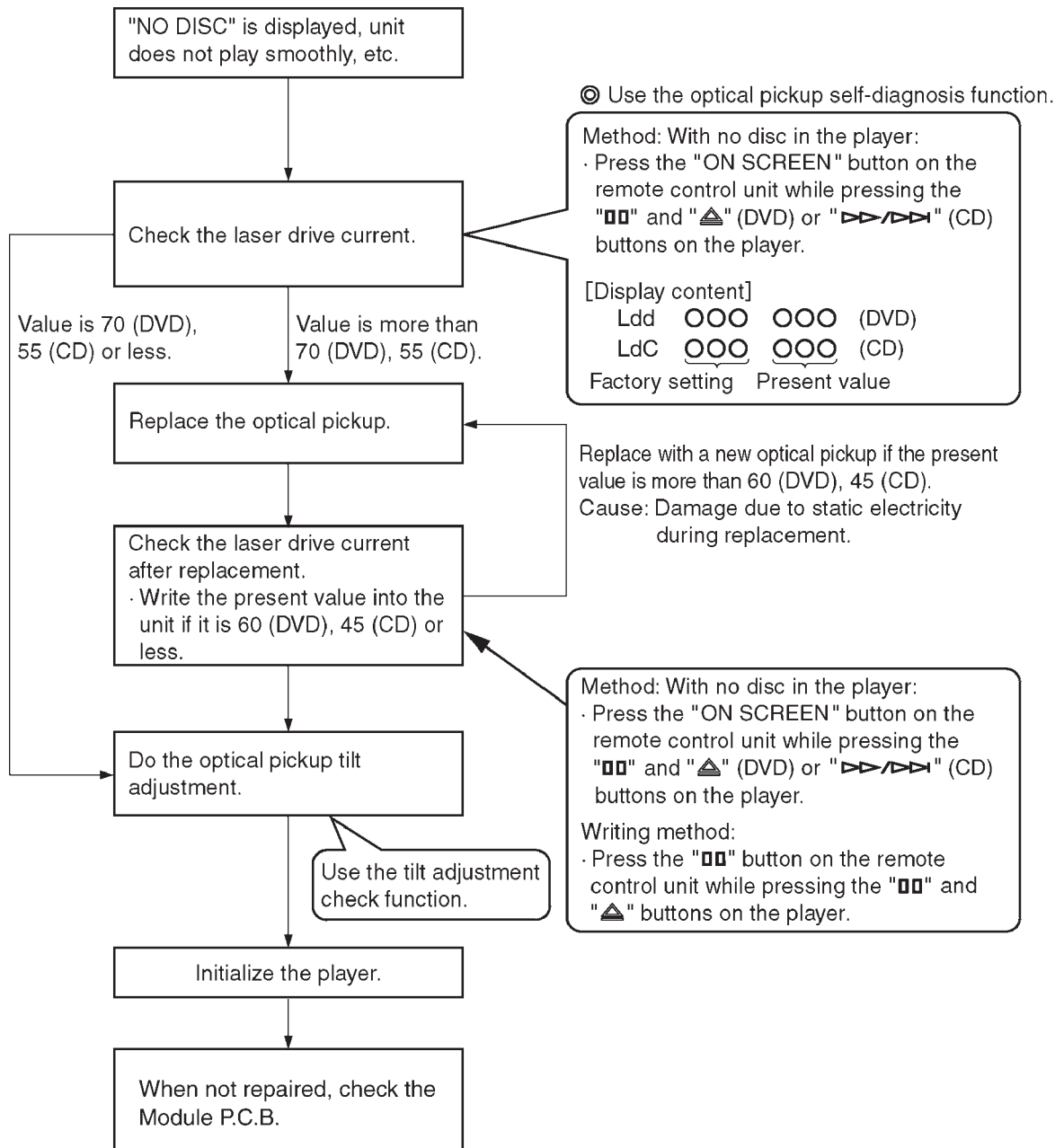
## ■ OPTICAL PICKUP SELF-DIAGNOSIS AND REPLACEMENT PROCEDURE

### 1. Self-diagnosis

An optical pickup self-diagnosis function and tilt adjustment check function have been included in this unit. When repairing, use the following procedure for effective Self-diagnosis and tilt adjustment. Be sure to use the self-diagnosis function before replacing the optical pickup when "NO DISC" is displayed. As a guideline, you should replace the optical pickup when the value of the CD laser drive current is more than 55 (70 for DVD).

**Note:**

Press the STANDBY/ON button to turn on the power. Check the value within three minutes before the unit warms up. (Otherwise, the result will be incorrect.)



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## 2. Cautions to Be Used Before Replacing the Optical Pickup Unit and Spindle Motor Assembly

Before replacing the optical pickup unit and spindle motor assembly, check the total usage hours for each of them. The checking method is as follows:

Note: Each of these procedures should start with the unit stopped.

	Operating state & Key operation	Display
Usage hours of laser	Press " 5 " button on the remote control while pressing the "□□" and "▶▶▶▶" buttons on the player. In this order while the unit is stopped.	t1_xxxx_yyyy xxxx: DVD laser Usage hours yyyy: CD laser Usage hours Total hours are displayed by 4-digit figures (unit: 10 hours).
Usage hours of SP motor	Press " 6 " button on the remote control while pressing the "□□" and "▶▶▶▶" buttons on the player. In this order while the unit is stopped.	t2_xxxxx Total hours are displayed by 4-digit figures (unit: 10 hours).
Resetting usage hours of laser	While displaying the usage hours of the laser, press "□" and "▶▶▶▶" buttons on the player, and " 5 " button on the remote control unit.	t1_0000_0000
Resetting usage hours of SP motor	While displaying the usage hours of the SP motor, press "□" and "▶▶▶▶" buttons on the player, and " 6 " button on the remote control unit.	t2_00000

### Cautions to be taken when replacing the optical pickup

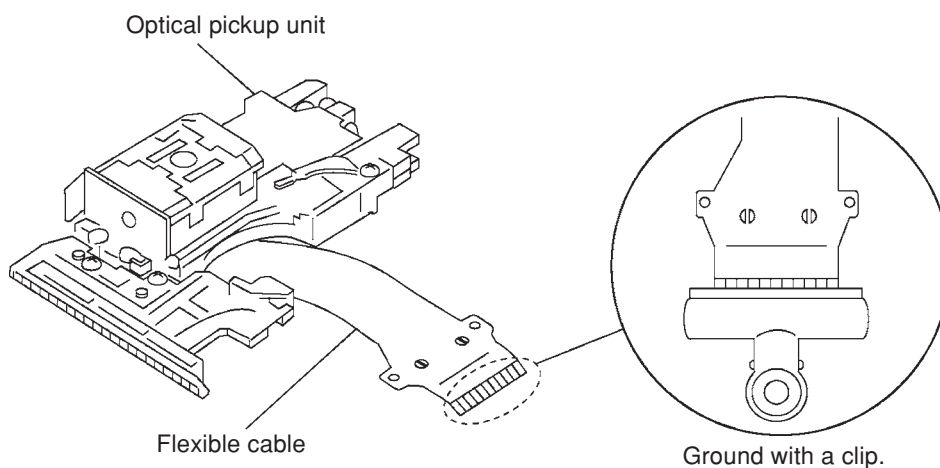
The optical pickup may become damaged due to static electricity from the human body. Take proper protection measures against static electricity before repairing the parts around the optical pickup. (See the page describing the PREVENTION OF ELECTRO STATIC DISCHARGE.)

1. Do not touch the areas around the laser diode and actuator.
2. Do not judge the laser diode with a tester. (The tester will damage the diode.)
3. It is recommended to use an anti-static soldering iron for soldering or desoldering on the pickup.  
(Recommended soldering iron) HAKKO ESD Product

4. Solder the land of the flexible cable in the optical pickup.

#### Note:

- When using a soldering iron which is not anti-static, short-circuit the terminal face of the flexible cable with a clip. After that, short-circuit the land.
- After the repairing work is completed, remove the solder according to the correct procedure shown in this service manual.



## ■ SELF-DIAGNOSIS FUNCTION AND SERVICE MODES

### 1. Service Mode Table

Pressing various button combinations on the player and remote control unit can activate the service modes.

Note: For jitter check, load the DVD test disc or the CD test disc. (See page 29)

Item	Player mode and button combination	Function	Display	Cancellation method
Jitter check	In PLAY mode, press "00" and "▲" buttons on the player, and "5" button on the remote control unit.	Jitter check Jitter rate is measured and displayed.	<p>Jitter rate is shown in decimal notation to one place of decimal. Focus drive value is shown in hexadecimal notation.</p>	Press STOP or OPEN button.
Error code check	In STOP mode, press "00" and "▲" buttons on the player, and "0" button on the remote control unit. * With pointing of cursor up and down on display, the panel controller switches serial number of history and sends out the command accordingly.	Error code check The latest error code stored in EEPROM is displayed.	Error code (play_err) is expressed in the following convention. Error code = 0 x DAXX is expressed: → nn UXX Error code = 0 x DBXX is expressed: → nn HXX Error code = 0 x DXXX is expressed: → nn FXXX Error code = 0 x 0000 is expressed: → nn F--- * "nn" denotes the serial number of history.	Cancelled automatically 5 seconds later.
Initial setting of laser drive current	In STOP mode, press "00" and "▲" buttons on the player, and "00" button on the remote control unit.	Initial setting of laser drive current. The Initial current value for each DVD laser and CD laser is separately saved in EEPROM.	<p>The value denotes the current in decimal notation. The above example shows the initial current is 34mA and 28mA for DVD laser and CD laser respectively when the laser is switched on.</p>	Cancelled automatically 5 seconds later.
DVD laser drive current measurement	In STOP mode, press "00" and "▲" buttons on the player, and "ON SCREEN" button on the remote control unit.	DVD laser drive current measurement. DVD laser drive current is measured and the result is displayed together with the initial value stored in EEPROM. After the measurement, DVD laser emission is kept on. It is turned off when the POWER key is switched off. (It is also turned off when the primary power is switched off.)	<p>The value denotes the current in decimal notation. The above example shows the initial current is 34mA and the measured value is 32mA.</p>	Cancelled automatically 5 seconds later.
ADSC internal RAM data check	In STOP mode, press "00" and "▲" buttons on the player, and "RETURN" button on the remote control unit.	ADSC internal RAM data check. ADSC internal RAM data is read out and displayed. Change the address with CANCEL key operation to show the data for 11 addresses.	<p>The value is shown in hexadecimal notation. The above example shows the data in ADSC address DFAh is 6901h.</p>	Press STOP or OPEN button.
Servo process display	In STOP mode, press "00" and "▶▶▶▶" buttons on the player, and "7" button on the remote control unit.	Servo process display The servo process from STOP to ACCESS is displayed.	_____	Pull out the power cable.
CD laser drive current measurement	In STOP mode, press "00" and "▶▶▶▶" buttons on the player, and "ON SCEEN" button on the remote control unit.	CD laser drive current measurement CD laser drive current is measured and the result is displayed together with the initial value stored in EEPROM. After the measurement, CD laser emission is kept on. It is turned off when the POWER key is switched off. (It is also turned off when the primary power is switched off.)	<p>The value denotes the current in decimal notation. The above example shows the initial current is 28mA and the measured value is 26mA.</p>	_____

Item	Player mode and button combination	Function	Display	Cancellation method
Version display	In STOP mode, press "00" and "▲" buttons on the player, and "7" button on the remote control unit.	Version display	<p>srrr_xyzzzz</p> <ul style="list-style-type: none"> <li>System controller release number</li> <li>System controller model number</li> <li>System controller generation</li> <li>Panel controller release number</li> <li>Panel controller model number</li> </ul>	Cancelled automatically 5 seconds later.
Lighting of display tube	In STOP mode, press "00" and "▲" buttons on the player, and "9" button on the remote control unit.	Lighting of display tube	_____	Turn off the power.
Dealer's lock	In STOP mode, keep pressing "□" button on the player and "POWER" button on the remote control unit for a few seconds.	<p>Dealer's lock</p> <p>The lock is switched ON or OFF. When dealer's lock is ON, it prohibits switching off of the secondary power and tray opening. When the lock is switched, its ON/OFF status is stored in EEPROM.</p>	<p>· "LOCK" is displayed when dealer's lock is switched on, or when secondary power key or tray opening key is pressed while the lock is on.</p> <p>· "UNLOCK" is displayed when dealer's lock is switched off.</p>	Repeat the same operation.
Initialization	In STOP mode, press "00", "◀◀◀" and "▲" buttons on the player for 3 seconds or longer.	<p>Initialization</p> <p>User settings are cancelled and player is initialized to factory setting.</p>	"INIT"	
Region display	In STOP mode, press "00", "▲" and buttons on the player, and "6" button on the remote control unit.	Region display	<p>x_yy_zzz</p> <ul style="list-style-type: none"> <li>N: NTSC / 6: PAL60</li> <li>N: noPAL / P: PAL</li> <li>Region No.</li> </ul>	Cancelled automatically 5 seconds later.

Item	Player mode and button combination	Function	Display	Cancellation method
Timer 1 check	In STOP mode, press "00" and "▶▶▶▶" buttons on the player, and "5" button on the remote control unit.	<p>Timer 1 check</p> <p>Laser operation timer: Operation time is measured separately for DVD laser and CD laser.</p>	<p>t1_1234_5678</p> <p>Shown to the left is DVD laser time, and to the right CD laser time. Time is shown in 4 digits of decimal notation in a unit of 10 hours. "0000" will follow "9999".</p>	Cancelled automatically 5 seconds later.
Timer 1 reset	While displaying Timer 1 data, press "□" and "▶▶▶▶" buttons on the player, and "5" button on the remote control unit.	<p>Timer 1 reset</p> <p>Laser operation timer: Operation time of both DVD laser and CD laser is reset all at once.</p>	t1_0000_0000	Cancelled automatically 5 seconds later.
Timer 2 check	In STOP mode, press "00" and "▶▶▶▶" buttons on the player, and "6" button on the remote control unit.	<p>Timer 2 check</p> <p>Spindle motor operation timer</p>	<p>t2_12345</p> <p>Time is shown in 5 digits of decimal notation in a unit of 10 hours. "0000" will follow "9999".</p>	Cancelled automatically 5 seconds later.
Timer 2 reset	While displaying Timer 2 data, press "□" and "▶▶▶▶" buttons on the player, and "6" button on the remote control unit.	<p>Timer 2 reset</p> <p>Spindle motor operation timer reset</p>	t2_00000	Cancelled automatically 5 seconds later.

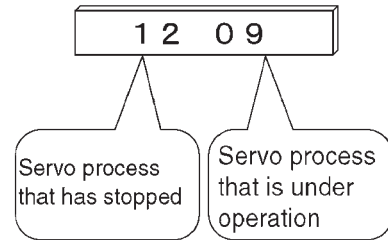
### Use of operation time display function

When repairing a trouble, check these figures and use them for reference.

When performing replacement, be sure to check the total operation time and reset the time after replacement.

## 2. Servo Process Flow

Specification of the servo process display in the starting flow



(Restrictions)

All processes that are under operation cannot be displayed due to the limit of the processing time.

Starting flow	Range of the servo process numbers	Processing items	
		Number	Contents of each process
START			
Initial setting Tray control	00	00	Each initial setting
TRV initial movement	01	01	TRV initial movement
Disc detection	02~08	02	Initial setting in FE system
		05	Detecting LD ON HALF
		08	Detecting CD LD ON
Disc type distinction	02~08	02	Initial setting in FE system
Focus servo	10~13	12	Focus ON
		13	FBAL adjustment
Tracking servo	14~15	15	Tracking ON
Gain learning	17	17	Gain adjustment in ADSC focus system
ID read	18~1A	19	DBAL/equalizer adjustment
		1A	ID read

LD: Laser Diode

## 3. Servo Process Display Mode

In starting operation of the player, a number is allotted to each servo process so that the operation of each step can be seen. Use that number in combination with the error code, RAM learned value in ADSC and others for reference when diagnosing troubles. The relation between the process and the displayed number are as follows:

### Number allotment to the servo process

Process classification	Each processing item	Description	Process number
Initial start process	Initial start	The process starts after the tray is loaded. (The state is changed to "READY" or PREPARE".)	0~40
	Secondary learning	Servos for the DVD-DL 1st layer and the CD-DA double speed are learned in this step.	50~7F
Restart process	Restart	When a user operates in the "READY" state, each servo is turned on.	80~9F
Seek process	Seek	The optical pickup is moved to the disc destination in this process.	A0~BF
Repair process	Recover		
	(Error check)	An error is searched in the PLAY/SEEK state.	C1~C3
	(Attention)	An error is recovered following the attention error interrupt from the S-ODC.	C4~C6
	(Q code read)	If any Q code is improperly read, reset and retry.	C7~C9
Stop process	Stop	A servo is controlled in response to the user's operation to stop the disc completely.	F0~FF

## 4. Sales Demonstration Lock Function

This function prevents discs from being lost when the unit is used for sales demonstrations by disabling the disc eject function. "LOCK" is displayed on the unit, and ordinary operation is disabled.

### 4.1. Setting

The sales demonstration lock is set by simultaneously pressing the "□" button on the player and the "POWER" button on the remote control unit for a few second.

### 4.2. Cancellation

The lock can be cancelled by the same procedure as used in setting. "UNLOCK" is displayed on cancellation. (Disconnecting the power cable from the power outlet does not cancel the lock function.)

## 5. Service Precautions

### 5.1. Recovery after the DVD player is repaired

When a FROM or an EEPROM in and on the module P.C.B. has been replaced, carry out the recovery disc procedure to optimize the drive.

Playback the disc above to perform the recovery automatically,

Recovery disc: RFKZD5TR006 (AAX42050)

1. Load the recovery disc in the player and play it.
2. The recovery function is automatically executed and a message indicating its end appears on the screen.
3. Take out the disc.
4. Turn off the power.

#### Note:

This unit requires no initialization procedure carried out as when traditional DVD players were repaired.

When the recovery measures are taken, the customer setting will return to the factory setting and the player will be reset.

### 5.2. Firmware version-up of the DVD player

The firmware of the DVD player may be updated to improve the quality, including optimizing operation ability and playability with substandard discs.

The version-update disc also has a recovery function so that you don't need to use the recovery disc again.

Detailed information on supply of the version-update disc will be provided in Service News.

#### Note:

If the AC power supply is lost during version-updating due to a power failure, the version-update is improperly carried out.

In such a case, replace the FROM and carry out the version-update again.

## 6. Handling After Completing Repairs

Use the following procedure after completing repairs.

### 6.1. Method

Confirm that the power is turned on:

1. Press the "OPEN/CLOSE" button to close the tray.
2. Press the "POWER" button to turn off the power.
3. Disconnect the power plug from the outlet.

### 6.2. Precautions

Do not disconnect the power plug from the outlet with the tray still open, then close the tray manually.

## 7. Error Code

Error Code	Error Content	Additional error explanation	Defect 1	Defect 2	Defect 3	Defect 4
	U, H error					
U11	Focus error					
H01	Tray loading error					
H02	Spindle servo error	(Spindle servo, DSC (IC2001) SP motor, CLV servo error)				
H03	Traverse servo error					
H04	Tracking servo error					
H05	Seek error					
H06	Power error	Cannot switch off the power because of the panel and system computer communication error				
H07	Spindle motor drive error					
	DSC related					
F500	DSC error	DSC (IC2001) stops in the occurrence of servo error (startup, focus error, etc)	Optical pickup	ADSC (IC2001)	FEP (IC5201)	servo drive
F501	DSC not Ready	DSC-system computer communication error (Communication failure caused by idling of DSC)	ADSC (IC2001)	CPU (IC6201)		
F502	DSC Time out error	Similar disposal as F500	Optical pickup	ADSC (IC2001)	FEP (IC5201)	servo drive
F503	DSC communication Failure	Communication error (result error occurred although communication command was sent)	ADSC (IC2001)	FEP (IC5201)	EEPROM (IC6221)	
F505	DSC Attention error	Similar disposal as F500	Optical pickup	ADSC (IC2001)	FEP (IC5201)	servo drive
F506	Invalid media	Disc is flipped over, TOC unreadable, incompatible disc	DISC	FEP (IC5201)	ADSC (IC2001)	ODC (IC2001)
	ODC related					
F600	Access failure to management information caused by demodulation error	Operation stopped because navigation data is not accessible caused by the demodulation defect	ODC (IC2001)	FEP (IC5201)	ADSC (IC2001)	
F601	Indeterminate sector ID requested	Operation stopped caused by the request to access abnormal ID data	ODC (IC2001)	FEP (IC5201)	ADSC (IC2001)	
F602	Access failure to LEAD-IN caused by demodulation error	LEAD IN data unreadable				
F603	Access failure to KEYDET caused by demodulation error	Access failure to CSS data of disc				
F610	ODC abnormality	No permission for command execution	ODC (IC2001)			
F611	6626 QCODE don't read Error	Access failure to seek address in CD series	ODC (IC2001)			
F612	No CRC OK for a specific time	Access failure to ID data in DVD series	ODC (IC2001)			
F630	No reply to KEY DET enquiry	(for internal use only)				
F631	CPPM KEY DET is not available till the FILE terminal	(CPPM file system is unreadable caused by scratches)	DISC	CPPM (*1)		
F632	CPPM KEY DET is not available	Been revoked or falsified	DISC	EEPROM (IC6221)	CPPM (*1)	
	Disc code					
F103	Illegal highlight Position	Big possibility of disc specification violation during highlight display	DISC			
	HIC Error					
F4FF	Force initialize failure (time out)		EEPROM (IC6221)	CPU (IC6201)	FEP (IC5201)	ADSC (IC2001)
	Micro computer error					
F700	MBX overflow	When replying message to disc manager				
F701	Message command does not end	Next message is sent before replying to disc manager				
F702	Message command changes	Message is changed before it is sent as a reply to disc manager				

Error Code	Error Content	Additional error explanation	Defect 1	Defect 2	Defect 3	Defect 4
F880	Task number is not appropriate	Message coming from a non-existing task				
F890	Sending message when message is being sent to AV task	Sending message to AV task				
F891	Message couldn't be sent to AV task	Begin sending message to AV task				
F893	FROM falsification		FROM (IC6301)	CPU (IC6201)		
F894	EEPROM abnormality		EEPROM (IC6221)	Serial communication on lone		
F895	Language area abnormality	Firm version agreement check for factory preset setting failure prevention	FROM (IC6301)	Jumper(*2)		
F896	No existence model	Firm version agreement check for factory preset setting failure prevention	Jumper(*2)			
F897	Initialize is not completed	Initialize completion check for factory preset setting failure prevention				
F8A0	Message command is not appropriate	Begin sending message to AV task				

**Note:**

An error code will be canceled if a power supply is turned OFF.

\*1: CPPM is the copy guard function beforehand written in the disk for protection of copyrights.

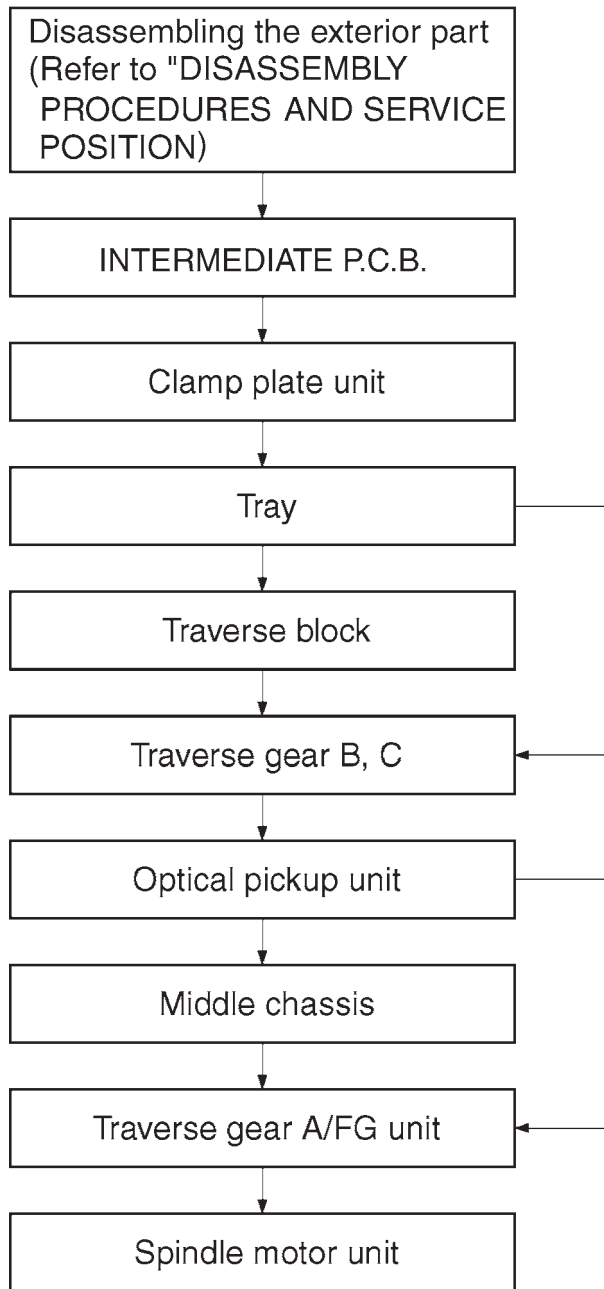
\*2: Jumper ... R6022, R6024 and R6026.

## 8. Last Error Code Saved During NO PLAY

Error code	Error content	System computer	Setting task	System computer internal error code
F0BF	6) Cannot playback because physical layer is not recognizable	PCND_NOPLAY_PHYSICAL 0x50	Drive Manager	0xD0BF
F0C0	8) DVD: Cannot playback because it is not DVD Video/Audio/VR	PCND_NOPLAY_VIDEO 0x70	Disc Manager	0xD0C0
F0C1	9) DVD: Prohibited by the restricted region code	PCND_NOPLAY_RCD 0x80	Disc Manager	0xD0C1
F0C2	A) DVD: PAL restricted playback	PCND_NOPLAY_PAL 0x90	Disc Manager	0xD0C2
F0C3	B) DVD: Parental lock setting prohibits the playback of the entire title	PCND_NOPLAY_PTL 0xA0	Disc Manager	0xD0C3
F0C4	C) VCD: Prohibited because it is in PHOTO CD format	PCND_NOPLAY_PHOTOCD 0xB0	Disc Manager	0xD0C4
F0C5	D) VCD/CD: Prohibited because it is CD-ROM without CD-DA	PCND_NOPLAY_CDROM 0xC0	Disc Manager	0xD0C5

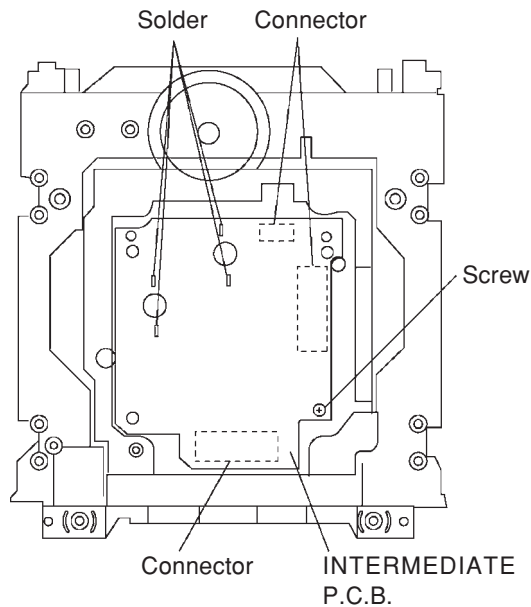
## ■ ASSEMBLING AND DISASSEMBLING THE MECHANISM UNIT

### 1. Disassembly Procedure



### 2. INTERMEDIATE P.C.B.

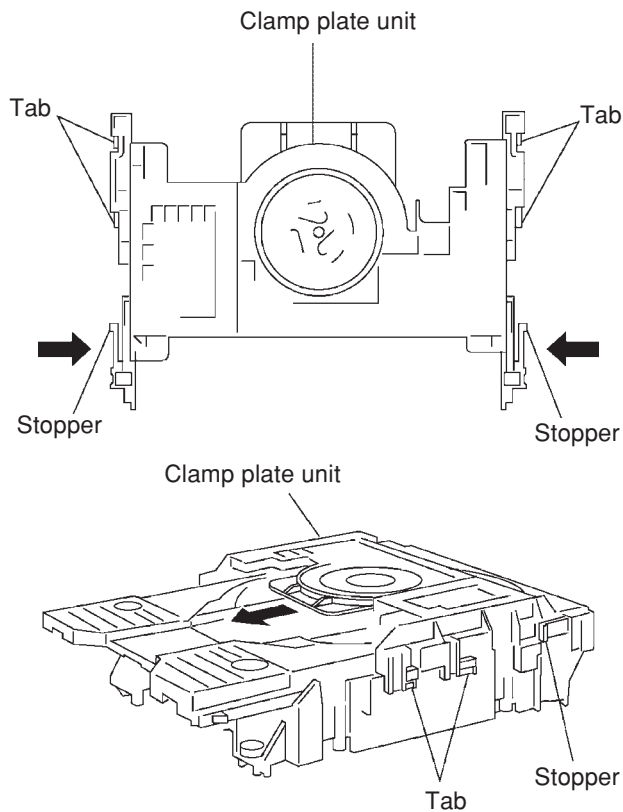
1. Remove the screws.
2. Remove the solder from the motor connections.
3. Remove the connectors.



<Mechanism unit bottom>

### 3. Clamp Plate Unit

Spread the stopper with hand to slide the tabs and remove the clamp plate unit.

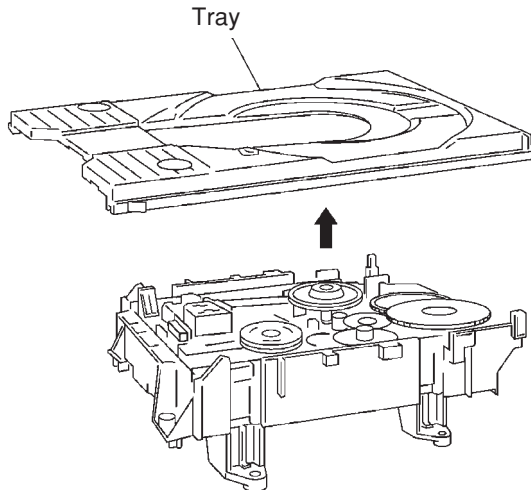


DVD-S830



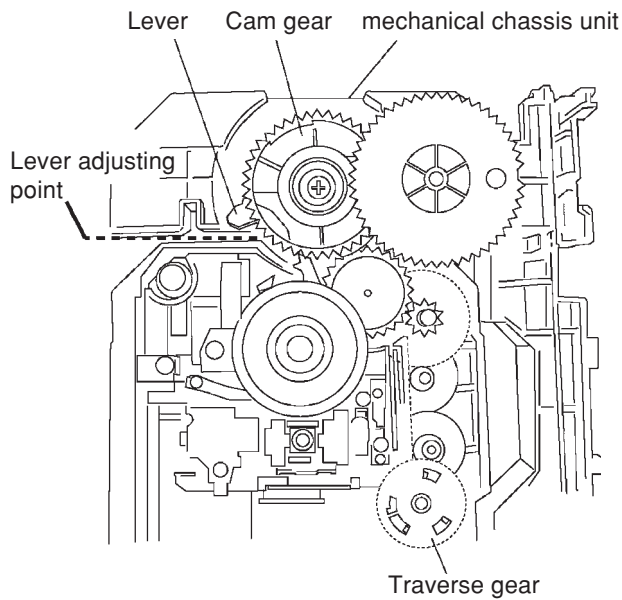
#### 4. Tray

Lift the tray.

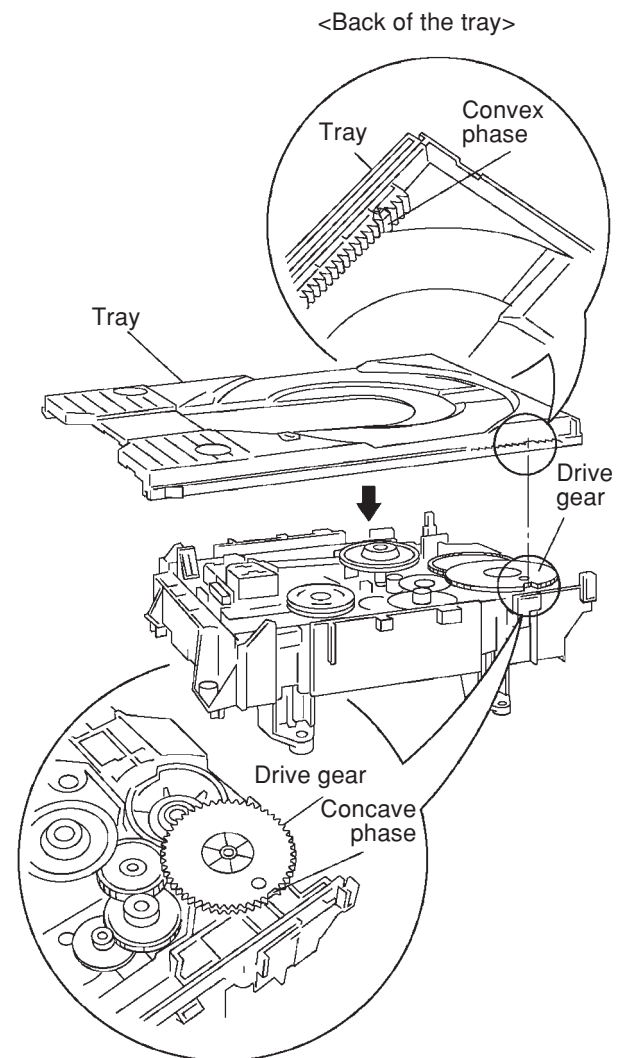


#### <Precautions in reassembling the tray>

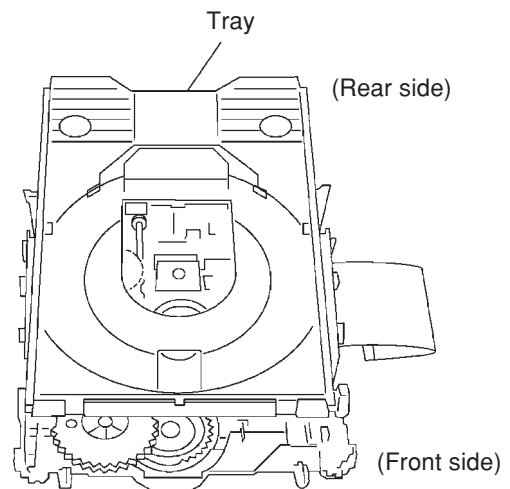
- Reassemble the tray so that it is in the backmost position.
1. Turn traverse gear until cam gear lever comes to the lever adjusting position at the end of the mechanical chassis unit.



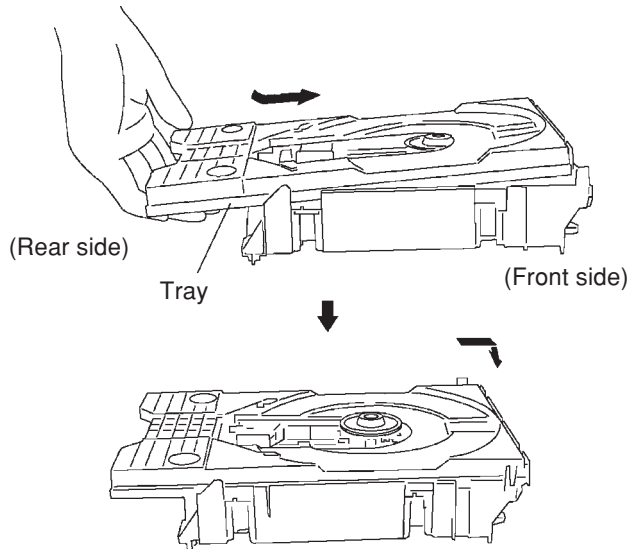
2. Check the position of convex phase on back of the tray, and that of concave phase on drive gear.



- a. Place the tray on the unit from rearward.

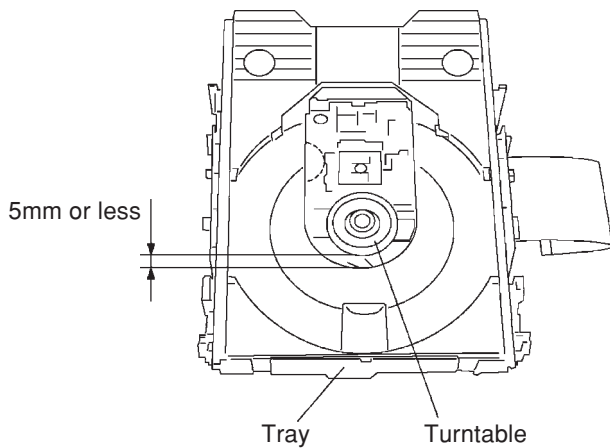


- b. Inch the tray forward until convex phase and concave phase mate.



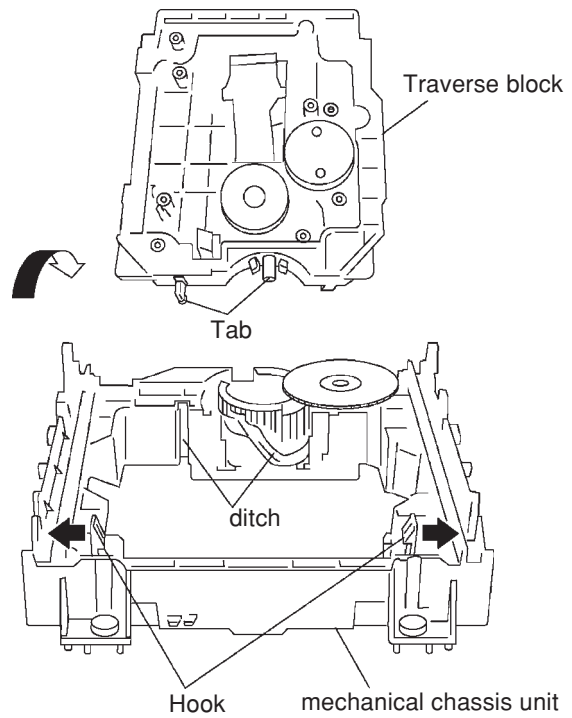
**Caution:**

Make sure to mate convex phase and concave phase properly, so that the gap between turntable and tray becomes 5mm or less.



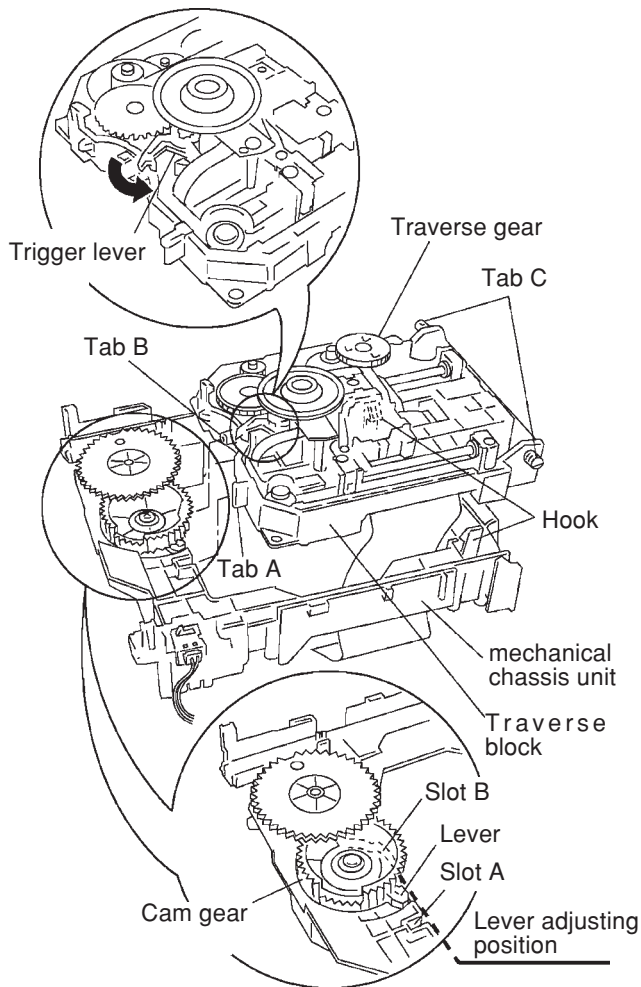
**5. Traverse Block**

1. Lift the traverse block while spreading the hook of the mechanical chassis unit.
2. Disengage the tabs from the holes of the mechanical chassis unit.



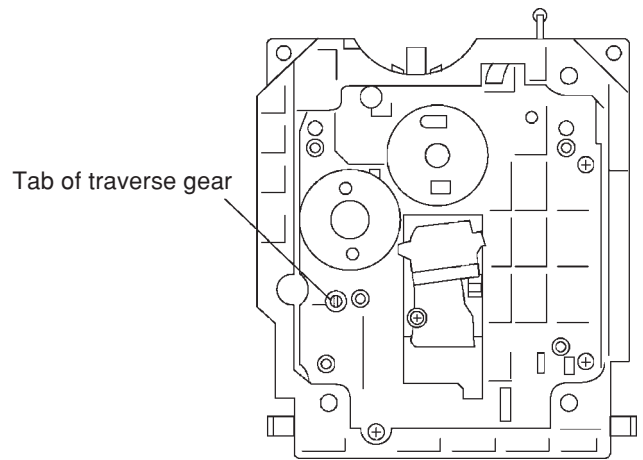
**<Precautions on reassembling the traverse block>**

- Take the following precautions when reassembling the traverse block.
1. Turn traverse gear on the traverse block to let trigger lever turn rightward.
  2. Bring cam gear lever to the lever adjusting position at the end of mechanical chassis unit.
  3. Put tabs A and B into slots A and B respectively. Place tabs C into hooks to mount the traverse block on mechanical chassis unit. (Slot A... Mechanical Chassis, Slot B... Cam Gear)

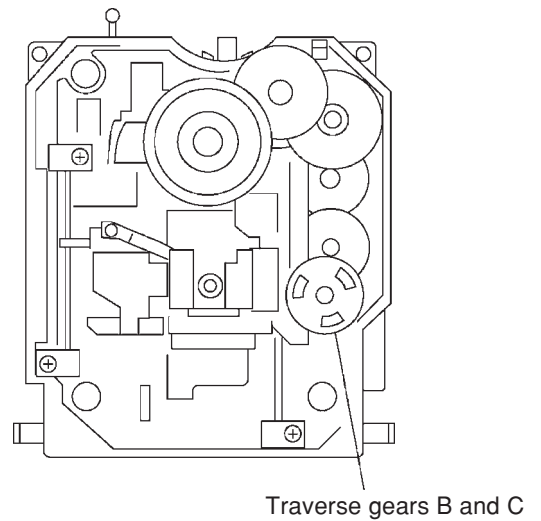


**6. Traverse Gear B, C**

1. Disengage the tabs from the traverse gear.
2. Remove the traverse gears B and C.



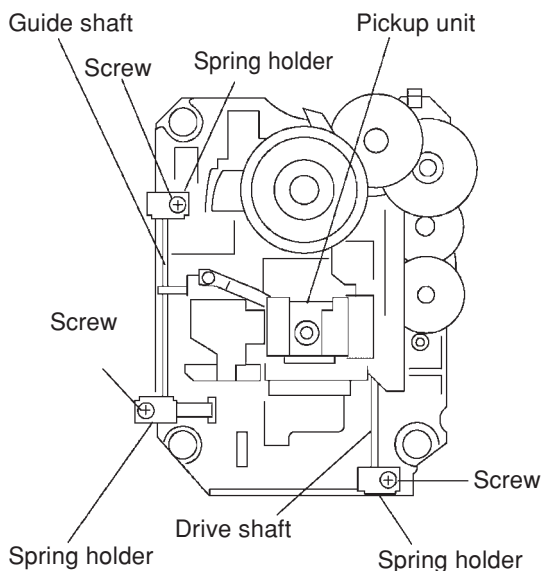
<Traverse block bottom>



Note: The traverse gear B is under the traverse gear C.

## 7. Optical Pickup Unit

1. Remove the screws.
2. Remove the spring holders and the springs.
3. Pull out the drive shaft and guide shaft.



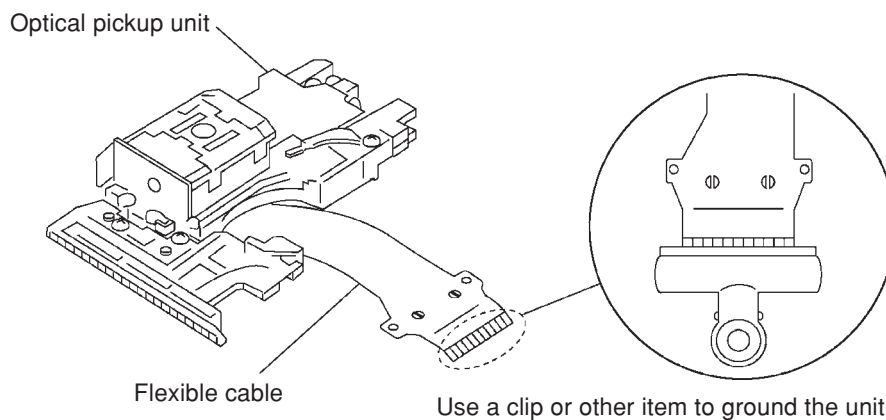
### 7.1 Precautions on optical pickup replacement

The optical pickup can be damaged by static electricity from your body. Be sure to take static electricity countermeasures when working around the optical pickup. (Refer to the related page in this Manual about the countermeasures.)

1. Do not touch the laser diode, actuator or their associated parts.
2. Do not use a tester to check the laser diode. (Laser diode can be damaged easily.)
3. Use an anti-static soldering iron when adding or removing the laser diode shorting jumper.
4. Solder the land on flexible cable of optical pickup unit.

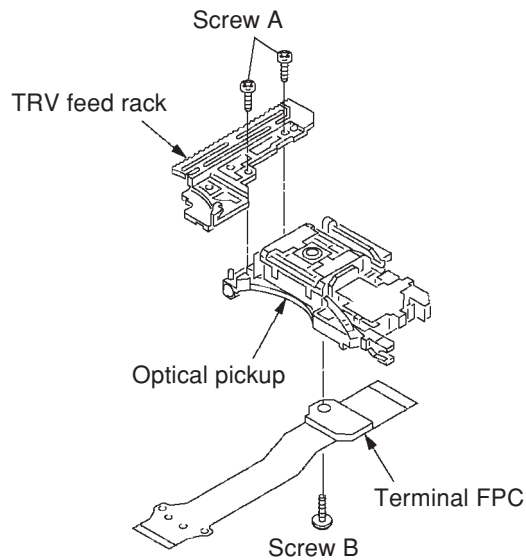
#### Caution

- When using the soldering iron without anti-static feature, short-circuit the flexible cable terminal with a clip before short-circuiting the land.
- After completing the repair, remove the solder from the laser diode shorting jumper properly following the procedures described in this Manual.



## 7.2 Disassembling the Optical Pickup Unit

1. Remove 2 screws (A) and remove the TRV feed rack.
2. Remove the screw (B) and remove the Terminal FPC.
3. Remove the optical pickup.

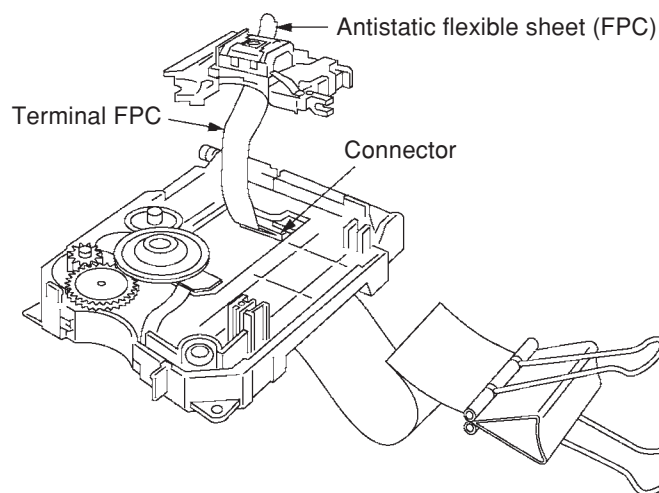


<Fig. A>

## 7.3 Cautions to Be Taken When Replacing the Optical Pickup

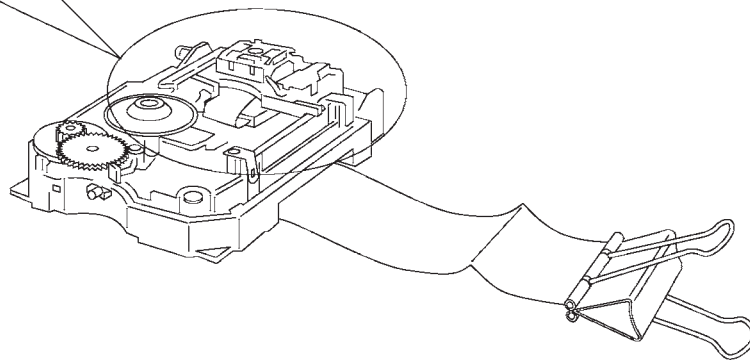
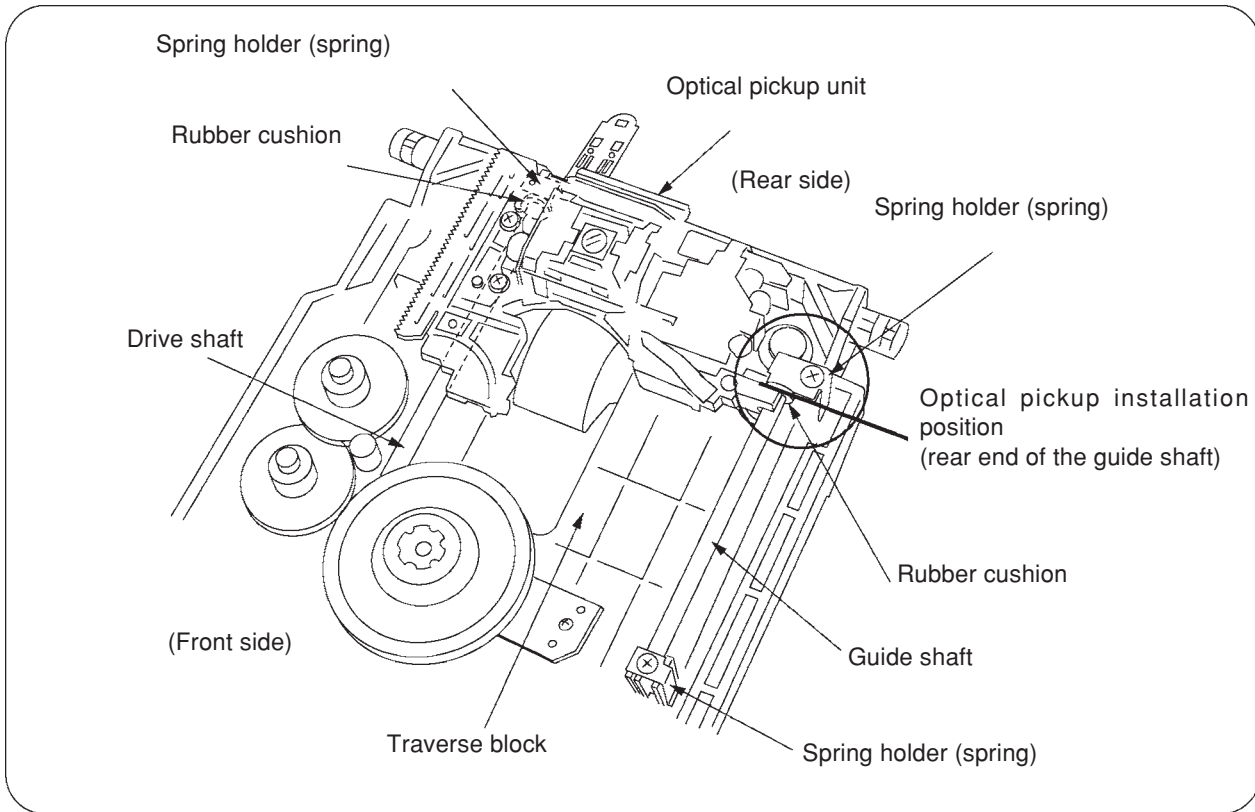
An antistatic flexible sheet (FPC) is connected with the new optical pickup. Replace the optical pickup according to the following procedure.

1. Install the Terminal FPC, TRV feed rack on the optical pickup. (See Fig. A)
2. Install the Terminal FPC in the connector on the Terminal P.C.B..



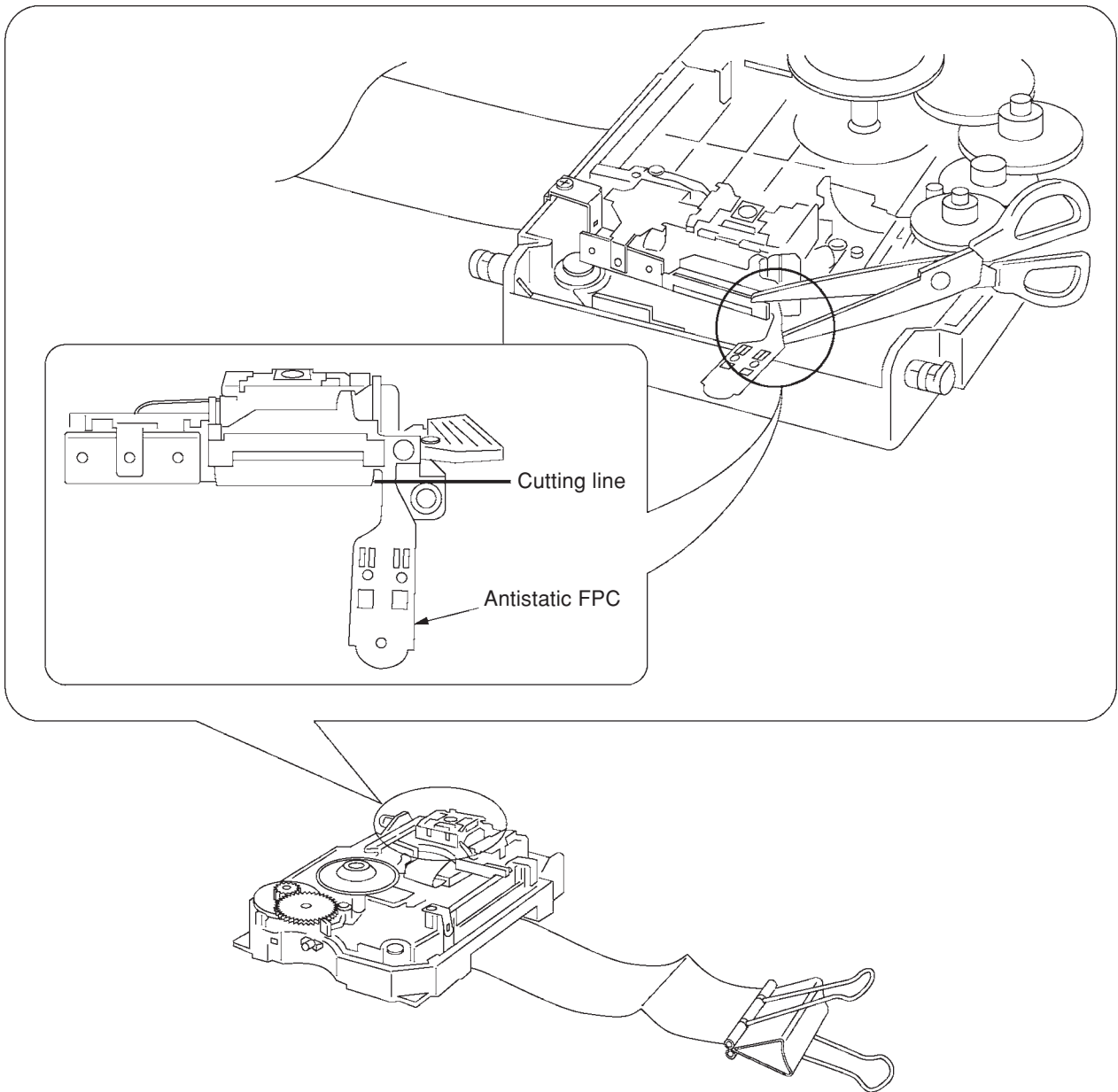
Ground the optical pickup with a clip.

3. Install the optical pickup unit, spring drive shaft, guide shaft, rubber cushion, and spring holder on the traverse block.



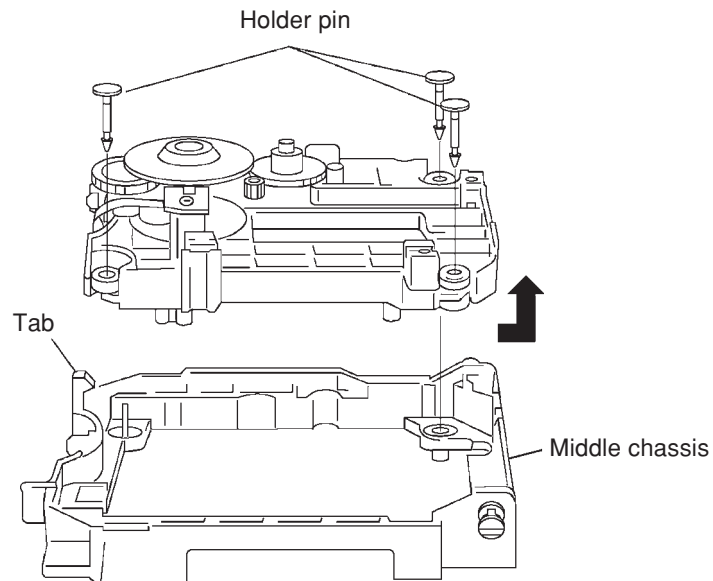
Cautions to be taken when assembling the unit: Install the pickup unit so that it is located at the rear end of the guide shaft.

4. Cut the antistatic flexible sheet for the optical pickup unit.



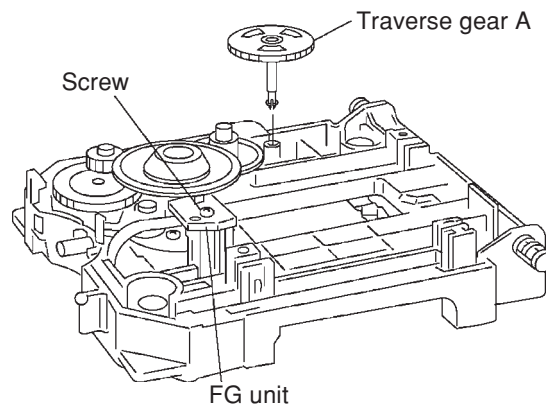
## 8. Disassembling the Middle Chassis

1. Remove the holder pins.
2. Remove the tab.
3. Lift up the upper part in the direction of the arrow.



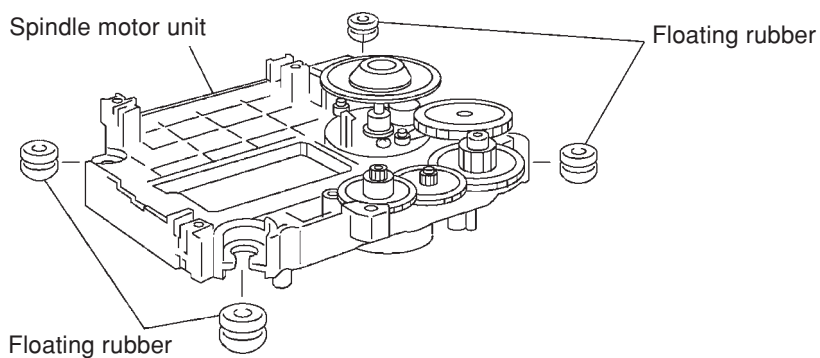
## 9. Disassembling the Traverse Gear A/FG unit

1. Remove the screw.
2. Remove the traverse gear A.



## 10. Disassembling the Spindle Motor Unit

Remove the floating rubbers.





## ■ ADJUSTMENT

### 1. Service Tools and Equipment

Application	Name	Number
Tilt adjustment	DVD test disc	DVDT-S15 (AAX07320) or DVDT-S01
	Hex wrench	JZS0100 (TX946380)
Inspection	Extension cable 26P (MODULE P.C.B. to TERMINAL P.C.B.)	JGS0098 (TX946370)
	Extension cable 22P (MODULE P.C.B. to TERMINAL P.C.B.)	JGS0116 (AAX16610)
Others	Screw lock	RZZ0L01 (TX946400)
	Grease 1	RFKXGAK152 (AAX27800)
	Grease 2	PFKXPG641 (AAX46440)
	Oil	RFKXGA1280 (AAX27790)
Confirmation	CD test disc	PVCD-K06 (TX946090) or any other commercially available disc
	VCD test disc	PVCD-K06 (TX946090) or any other commercially available disc
	Recovery disc	RFKZD5TR006 (AAX42050)

### 2. Important Points in Adjustment

- Before starting optical pickup tilt adjustment, be sure to take anti-static measures.
- Optical pickup tilt adjustment is necessary after replacement of the following components.
  1. Optical pickup unit
  2. Spindle motor unit
  3. Optical pickup peripheral parts (such as the rail)

#### Notes

Adjustment is generally unnecessary after replacing the other parts of the traverse unit. However, make adjustment if there is a noticeable degradation in picture quality. Optical adjustments cannot be made inside the optical pickup. Adjustment is generally unnecessary after replacing the traverse unit.

### 3. Storing and Handling Test Discs

- Surface precision is vital for DVD test discs. Be sure to store and handle them carefully.
  1. Do not place discs directly onto the workbench, etc., after use.
  2. Handle discs carefully in order to maintain their flatness. Place them into their case after use and store them vertically. Store discs in a cool place where they are not exposed to direct sunlight or air from air conditioners.
  3. Accurate adjustment will not be possible if the disc is warped when placed on a surface made of glass, etc. If this happens, use a new test disc to make optical adjustments.
  4. If adjustment is done using a warped disc, the adjustment will be incorrect and some discs will not be playable.

### 4. Optical Pickup Tilt Adjustment

Adjustment point	Tangential adjustment screw, Tilt adjustment screw
Mode	T01 (inner periphery) play, T43 (outer periphery) play
Disc	DVDT-S15 (AAX07320) or DVDT-S01
Measuring equipment	None (Use main unit servicing display.)
Adjustment value	Adjust to the minimum jitter value.

### 4.1. Adjustment Procedure

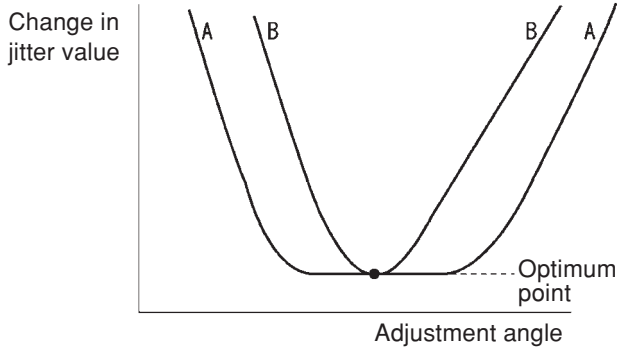
1. While pressing the " " button and the "▲" button on the main unit, press the "5" button on the remote control unit.
2. Confirm that "J\_xxx\_yyy\_zz" is shown on the front display.

**For your Information:**

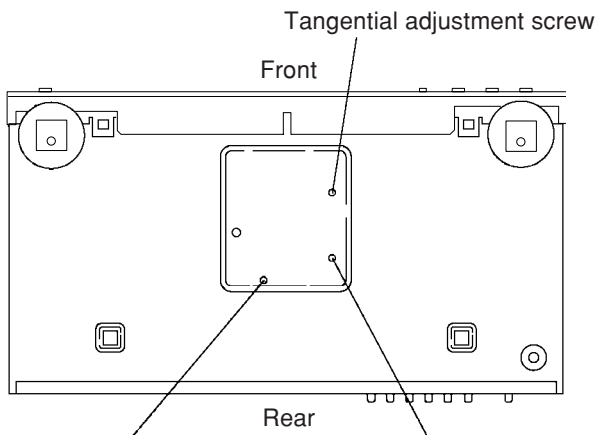
- "xxx" is the jitter rate. "yyy" is the error counter, while "zz" is the focus drive value.
3. Play test disc T01 (inner periphery).
  4. Adjust tangential adjustment screw so that the jitter value is minimized.
  5. Play test disc T43 (outer periphery).
  6. Adjust tilt adjustment screw 1 so that the jitter value is minimized.
  7. Play test disc T43 (outer periphery).
  8. Adjust tilt adjustment screw 2 so that the jitter value is minimized.
  9. Repeat adjusting tilt adjustment screws 1 and 2 alternately until the jitter value is minimized.

### 4.2. Important Points

1. Make tangential adjustment first, and then make tilt adjustment.
2. Repeat adjusting two or three times to find the optimum point.
3. Finish the procedure with tilt adjustment.



- Jitter value depends on the model:
  1. If the jitter value changes like B, the optimum point is easy to find.
  2. If the jitter value changes like A, set the optimum point near the middle.

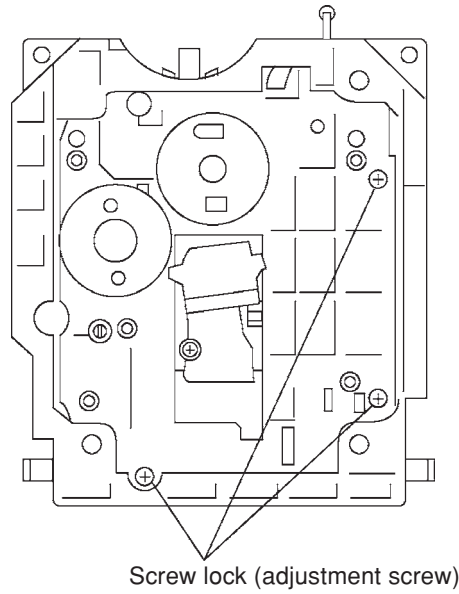


### 4.3. Check after Adjustment

Play a test disc or any other disc to make sure that there is no picture degradation in the inner, middle and outer peripheries, and no audio skipping. After adjustment is finished, lock each adjustment screw in position using screw lock.

### 4.4. Procedure for Screw Lock

1. After adjustment, remove the top cover, tray, clamper base and traverse unit in this sequence.
2. Lay the traverse unit upside down, and lock the adjustment screw with screw lock.
3. After locking, reassemble the traverse unit, clamper base, tray and top cover.



1

**BLOCK DIAGRAM**  
**OVERALL BLOCK DIAGRAM**

**B, G models**

2

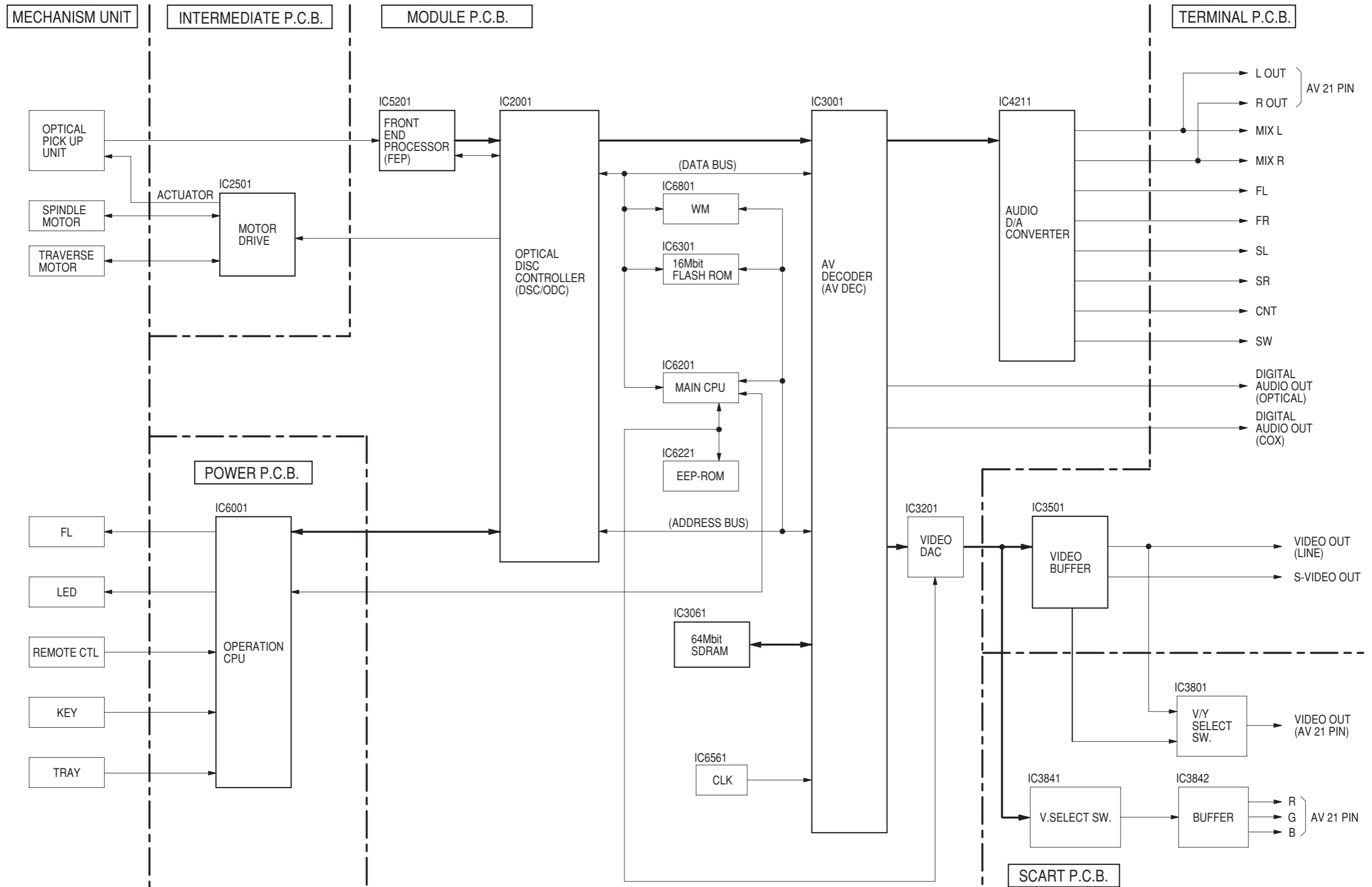
3

4

5

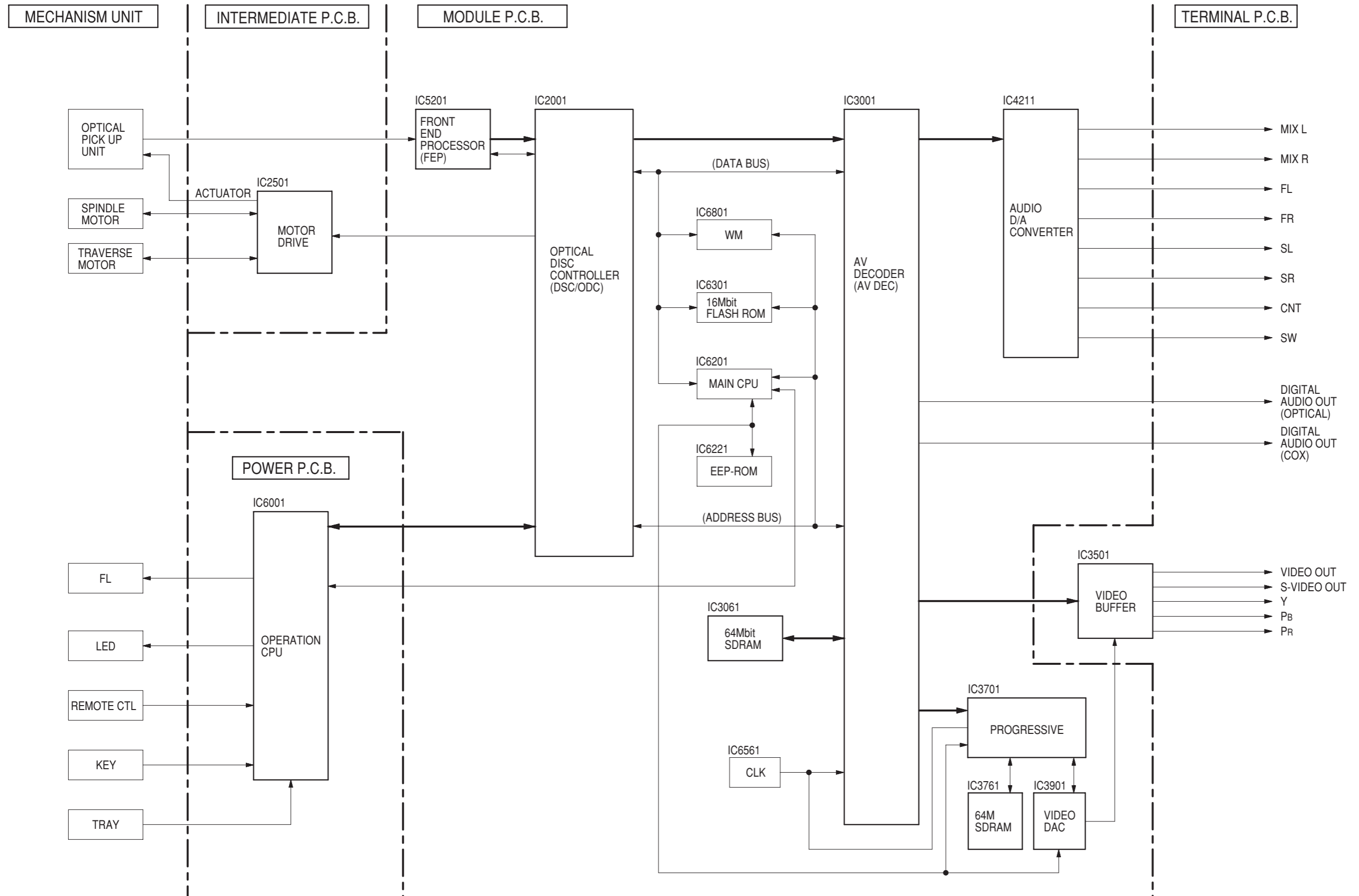
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7

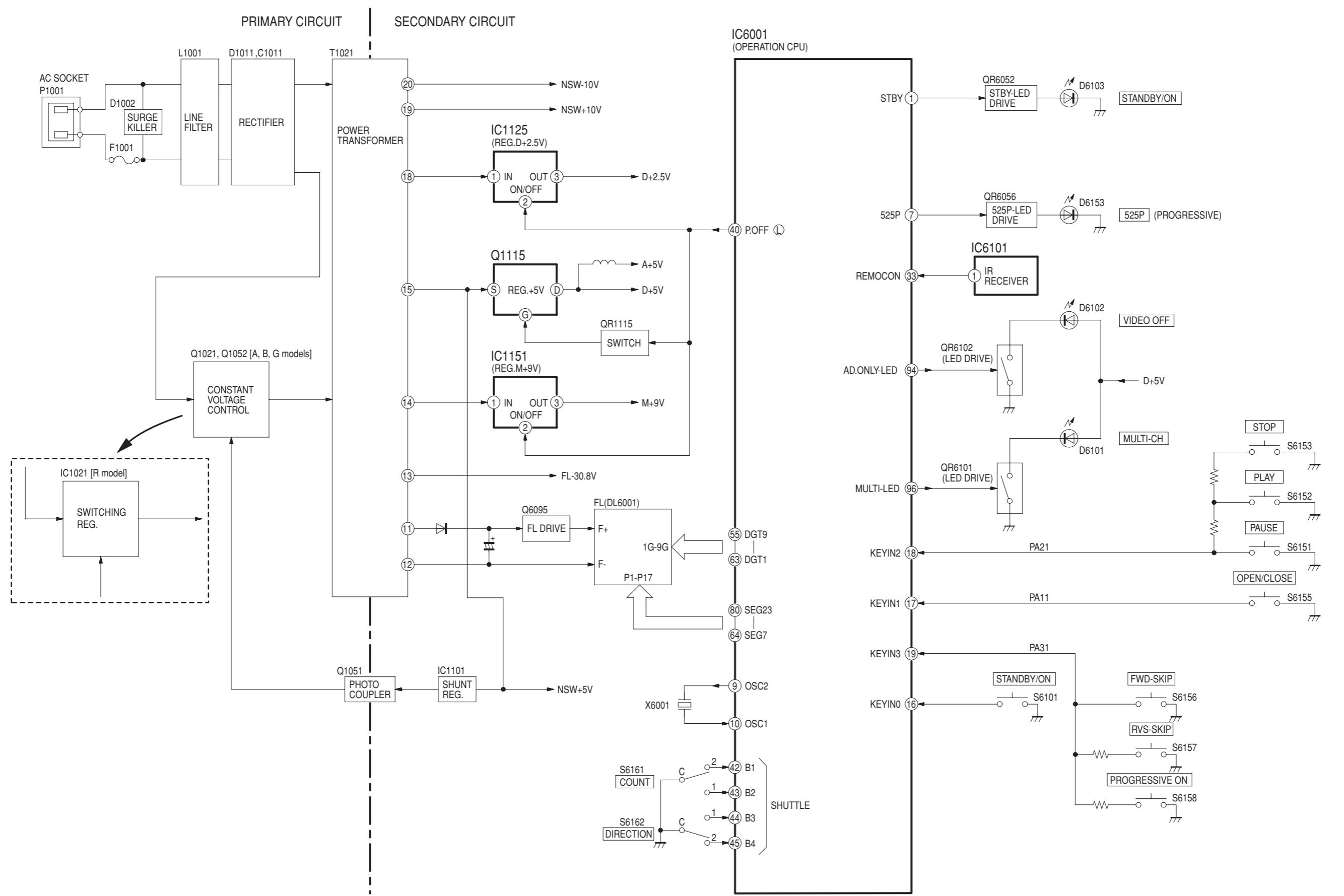


OVERALL BLOCK DIAGRAM

A, R models

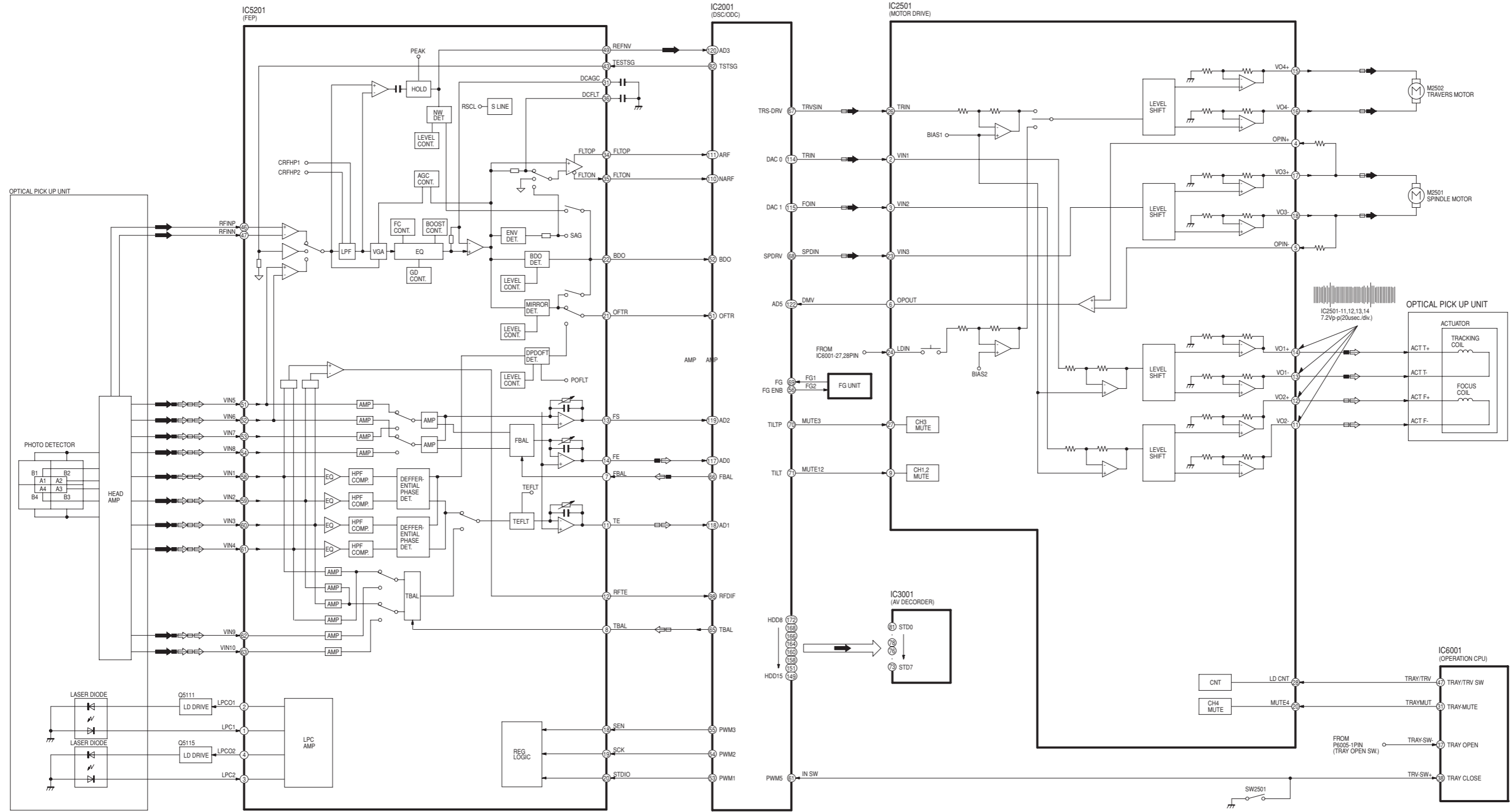


# POWER BLOCK DIAGRAM



# SERVO BLOCK DIAGRAM

← RF SIGNAL    ← MOTOR DRIVE SIGNAL    ← TRACKING ERROR SIGNAL    ← FOCUS ERROR SIGNAL



1

# VIDEO BLOCK DIAGRAM 1/2

## B, G models

2

INTERMEDIATE P.C.B.

MODULE P.C.B.

3

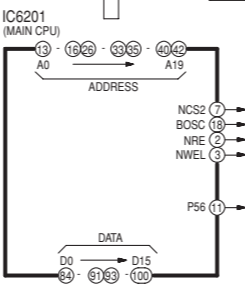
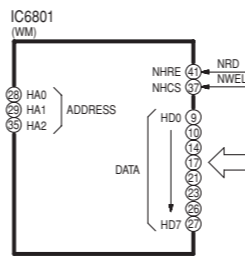
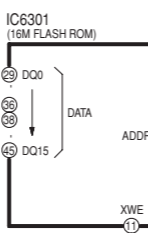
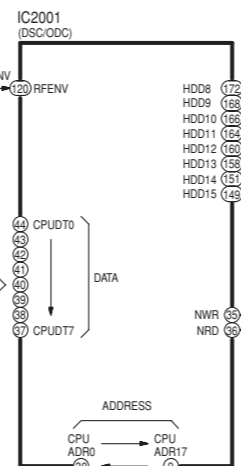
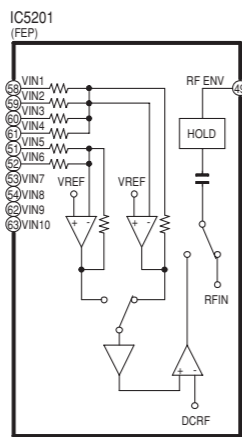
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5

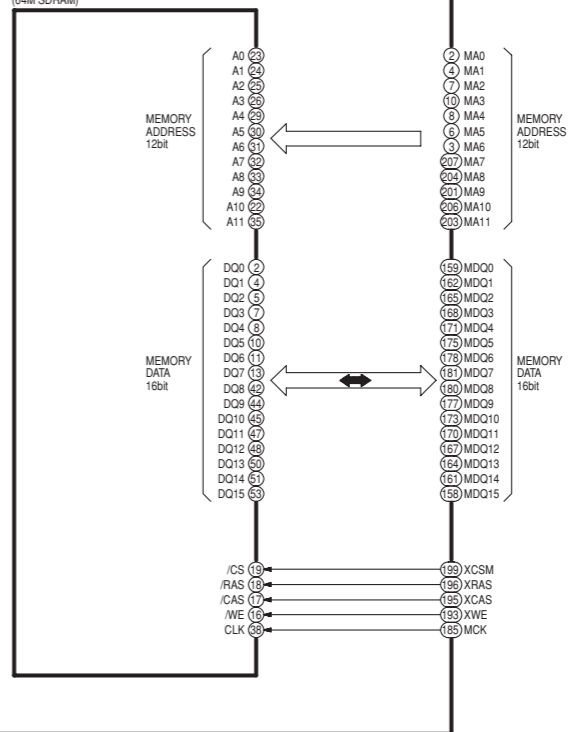
6

7

OPTICAL PICK UP UNIT

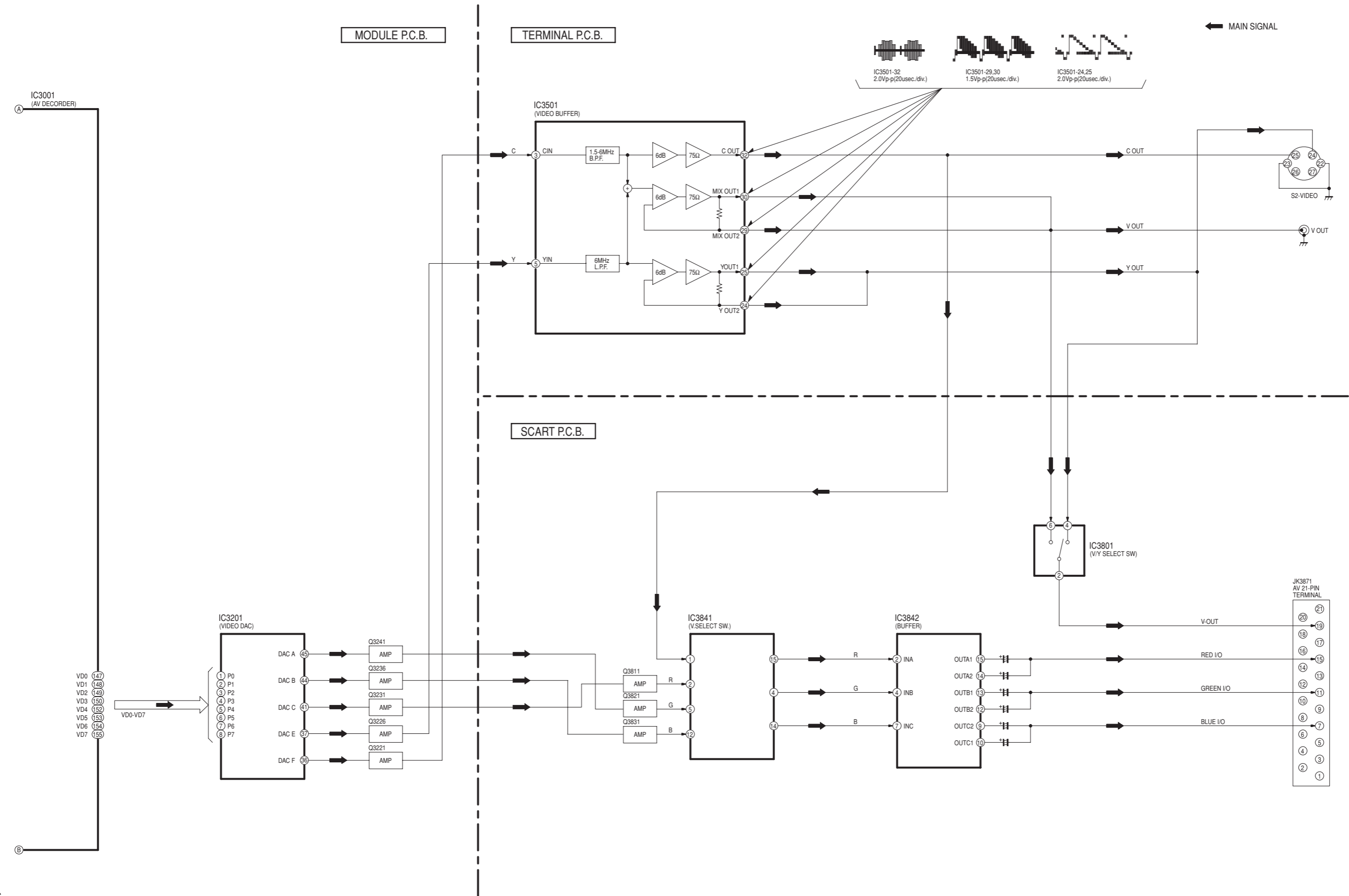


IC3061 (64M SDRAM)



VIDEO BLOCK DIAGRAM 2/2

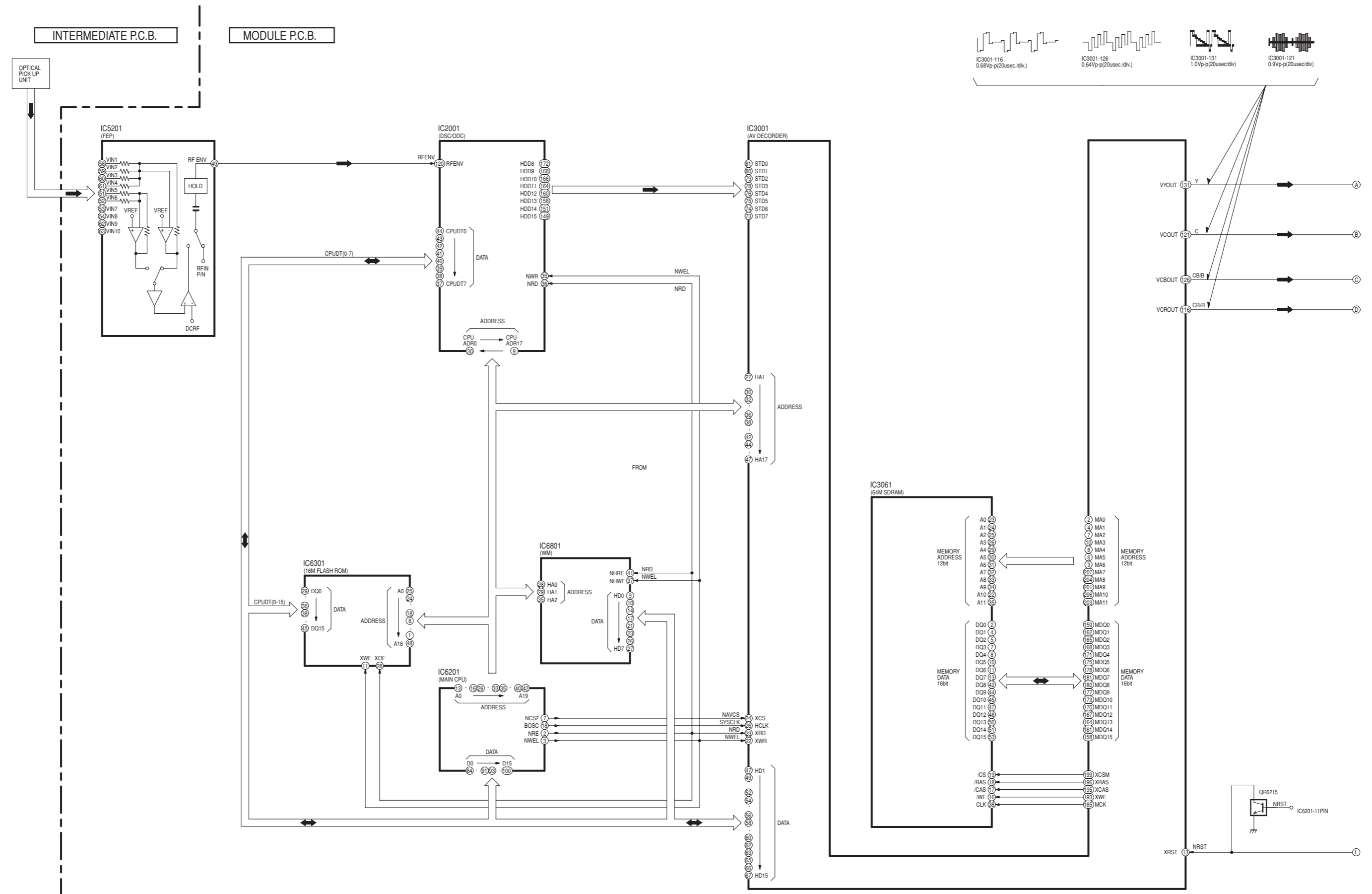
B, G models





VIDEO BLOCK DIAGRAM 1/2

A, R models



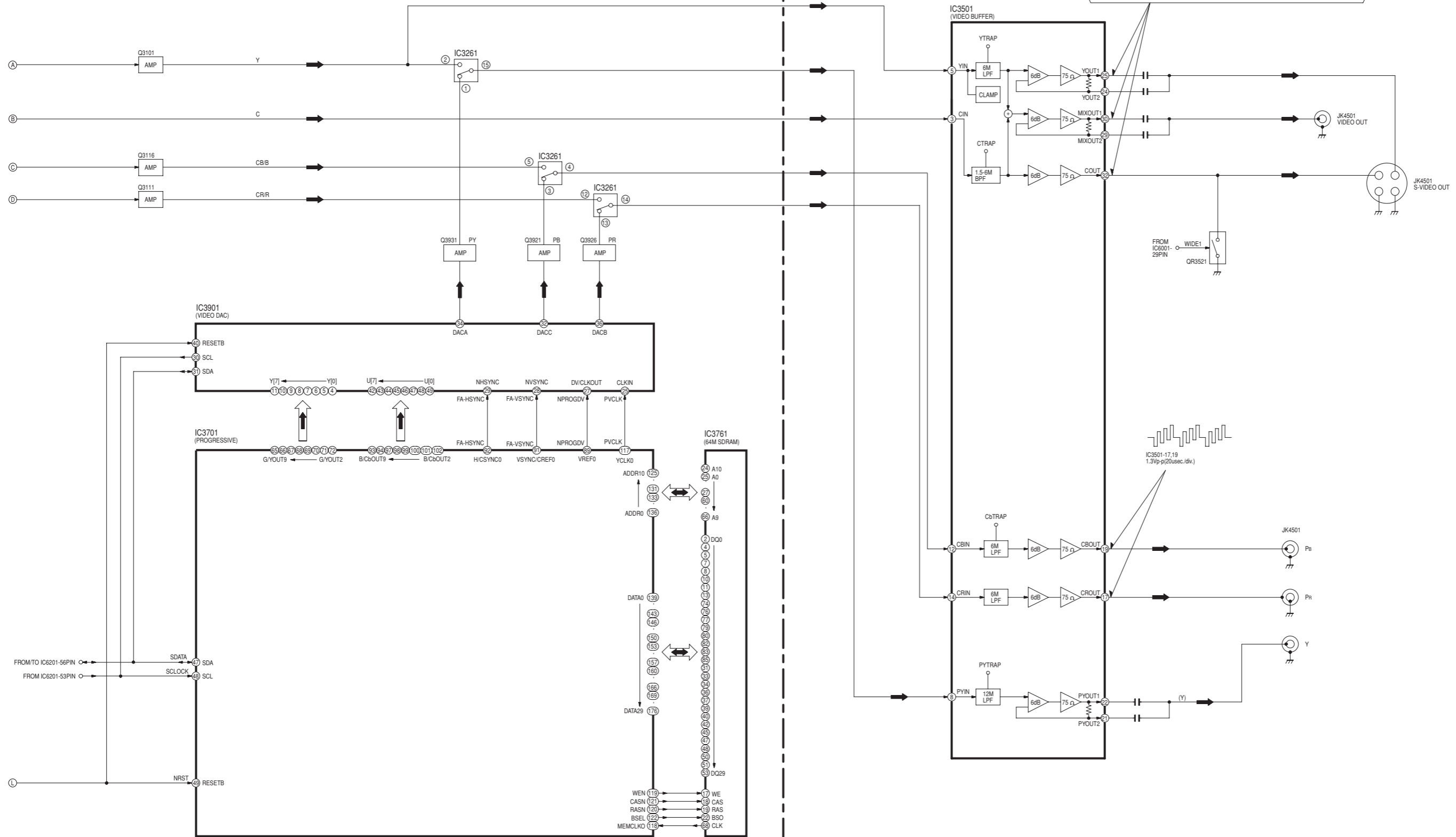
VIDEO BLOCK DIAGRAM 2/2

A, R models

MODULE P.C.B.

TERMINAL P.C.B.

← MAIN SIGNAL



# AUDIO BLOCK DIAGRAM

IC3001  
(AV DECODER)

IC6201  
(MAIN CPU)

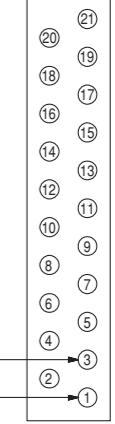
IC6801  
(WM)

IC4211  
(AUDIO DAC)

← MAIN SIGNAL

[B, G models]

JK3871  
AV 21-PIN  
TERMINAL



L OUT

R OUT

JK4501  
FRONT  
LOUT

FRONT  
ROUT

JK4501  
SURROUND  
LOUT

SURROUND  
ROUT

JK4501  
CENTER  
OUT

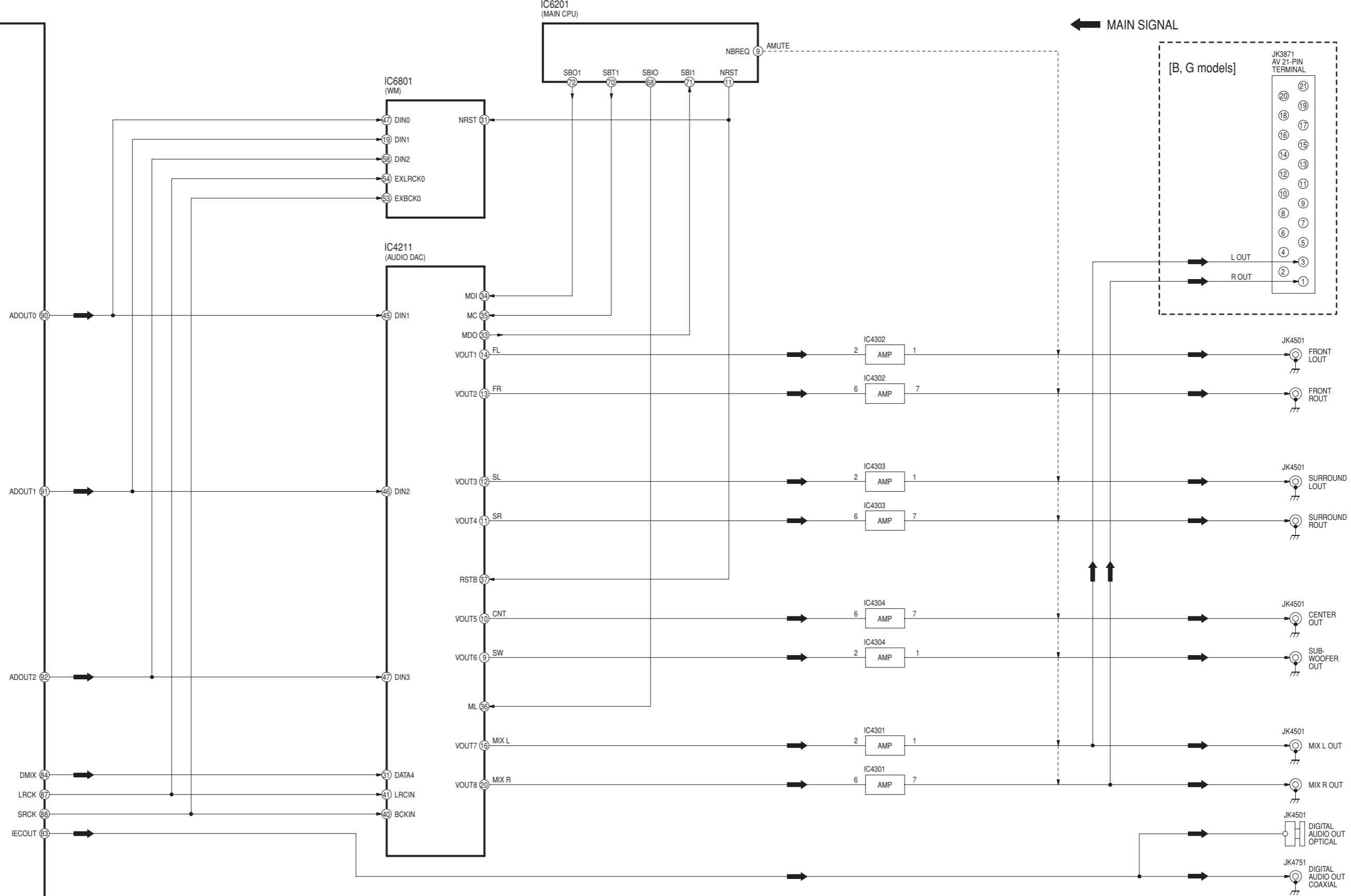
SUB-  
WOOFER  
OUT

JK4501  
MIX L OUT

MIX R OUT

JK4501  
DIGITAL  
AUDIO OUT  
OPTICAL

JK4751  
DIGITAL  
AUDIO OUT  
COAXIAL



2

3

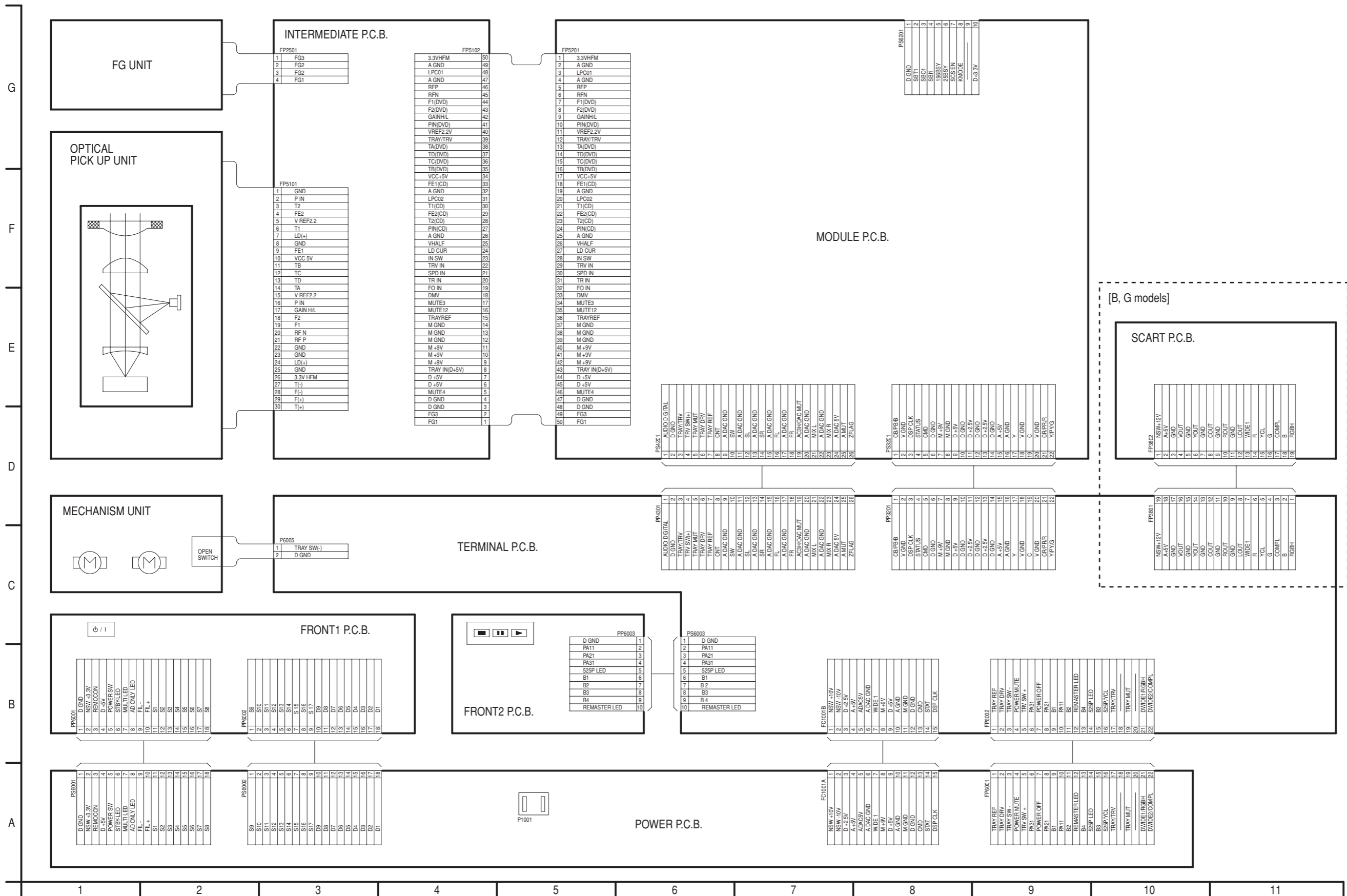
4

5

6

7

# INTERCONNECTION SCHEMATIC DIAGRAM



## ■ ABBREVIATIONS

	ABBREVIATIONS	DEFINITIONS
A	A0~UP ACLK AD0~UP ADATA ALE AMUTE AREQ ARF ASI ASO ASYN	ADDRESS AUDIO CLOCK ADDRESS BUS AUDIO PACKET DATA ADDRESS LATCH ENABLE AUDIO MUTE AUDIO PACKET REQUEST AUDIO RF SERVO AMP INVERTED INPUT SERVO AMP OUTPUT AUDIO WORD DISTINCTION SYNC
B	BCK BCKIN BDO BLKCK BOTTOM BYP BYTCK	BIT CLOCK (PCM) BIT CLOCK INPUT BLACK DROP OUT SUB CODE BLOCK CLOCK CAP. FOR BOTTOM HOLD BYPASS BYTE CLOCK
C	CAV CBDO CD CDSCK CDSRDATA CDRF CDV CHNDATA CKSL CLV COFTR CPA CPCS CPDT CPUADR CPUADT CPUIRQ CPRD CPWR CS CSYNIN CSYNOUT	CONSTANT ANGULAR VELOCITY CAP. BLACK DROP OUT COMPACT DISC CD SERIAL DATA CLOCK CD SERIAL DATA CD RF (EFM) SIGNAL COMPACT DISC-VIDEO CHANNEL DATA SYSTEM CLOCK SELECT CONSTANT LINEAR VELOCITY CAP. OFF TRACK CPU ADDRESS CPU CHIP SELECT CPU DATA CPU ADDRESS LATCH CPU ADDRESS DATA BUS CPU INTERRUPT REQUEST CPU READ ENABLE CPU WRITE ENABLE CHIP SELECT COMPOSITE SYNC IN COMPOSITE SYNC OUT
D	DACCK DEEMP DEMPH DIG0~UP DIN DMSRCK DMUTE DO DOUTO~UP DRF DRPOUT DREQ DRESP DSC DSLIF DVD	D/A CONVERTER CLOCK DEEMPHASIS BIT ON / OFF DEEMPHASIS SWITCHING FL DIGIT OUTPUT DATA INPUT DIM SERIAL DATA READ CLOCK DIGITAL MUTE CONTROL DROP OUT DATA OUTPUT DATA SLICE RF (BIAS) DROP OUT SIGNAL DATA REQUEST DATA RESPONSE DIGITAL SERVO CONTROLLER DATA SLICE LOOP FILTER DIGITAL VIDEO DISC
E	EC ECR ENCSEL ETMCLK ETSCLK	ERROR TORQUE CONTROL ERROR TORQUE CONTROL REFERENCE ENCODER SELECT EXTERNAL M CLOCK (81MHz/40.5MHz z) EXTERNAL S CLOCK (54MHz)

	ABBREVIATIONS	DEFINITIONS
F	FBAL FCLK FE FFI FEO FG FSC FSCK	FOCUS BALANCE FRAME CLOCK FOCUS ERROR FOCUS ERROR AMP INVERTED INPUT FOCUS ERROR AMP OUTPUT FREQUENCY GENERATOR FREQUENCY SUB CARRIER FS (384 OVER SAMPLING) CLOCK
G	GND	COMMON GROUNDING (EARTH)
H	HA0~UP HD0~UP HINT HRXW	HOST ADDRESS HOST DATA HOST INTERRUPT HOST READ/WRITE
I	IECOUT IPFLAG IREF ISEL	IEC958 FORMAT DATA OUTPUT INTERPOLATION FLAG I (CURRENT) REFERENCE INTERFACE MODE SELECT
L	LDON LPC LRCK	LASER DIODE CONTROL LASER POWER CONTROL L CH/R CH DISTINCTION CLOCK
M	MA0~UP MCK MCKI MCLK MDATA MDQ0~UP MDQM MLD MPEG	MEMORY ADDRESS MEMORY CLOCK MEMORY LOCK INPUT MEMORY SERIAL COMMAND CLOCK MEMORY SERIAL COMMAND DATA MEMORY DATA INPUT/OUTPUT MEMORY DATA I/O MASK MEMORY SERIAL COMMAND LOAD MOVING PICTURE EXPERTS GROUP
O	ODC OFTR OSCI OSCO OSD	OPTICAL DISC CONTROLLER OFF TRACKING OSCILLATOR INPUT OSCILLATOR OUTPUT ON SCREEN DISPLAY
P	P1~UP PCD PCK PDVD PEAK PLLCLK PLLOK PWMCTL PWMDA PWMOA,B	PORT CD TRACKING PHASE DIFFERENCE PLL CLOCK DVD TRACKING PHASE DIFFERENCE CAP. FOR PEAK HOLD CHANNEL PLL CLOCK PLL LOCK PWM OUTPUT CONTROL PULSE WAVE MOTOR DRIVE A PULSE WAVE MOTOR OUT A, B
R	RE RFENV RFO RS RSEL RST RSV	READ ENABLE RF ENVELOPE RF PHASE DIFFERENCE OUTPUT (CD-ROM) REGISTER SELECT RF POLARITY SELECT RESET RESERVE
S	SCK SCKR SCL SCLK SDA SDI0,1 SDO0 SDT0,1 SEG0~UP SELCLK	SERIAL CLOCK AUDIO SERIAL CLOCK RECEIVER SERIAL CLOCK SERIAL CLOCK SERIAL DATA SERIAL DATA INPUT SERIAL DATA OUTPUT SERIAL DATA CLOCK FL SEGMENT OUTPUT SELECT CLOCK

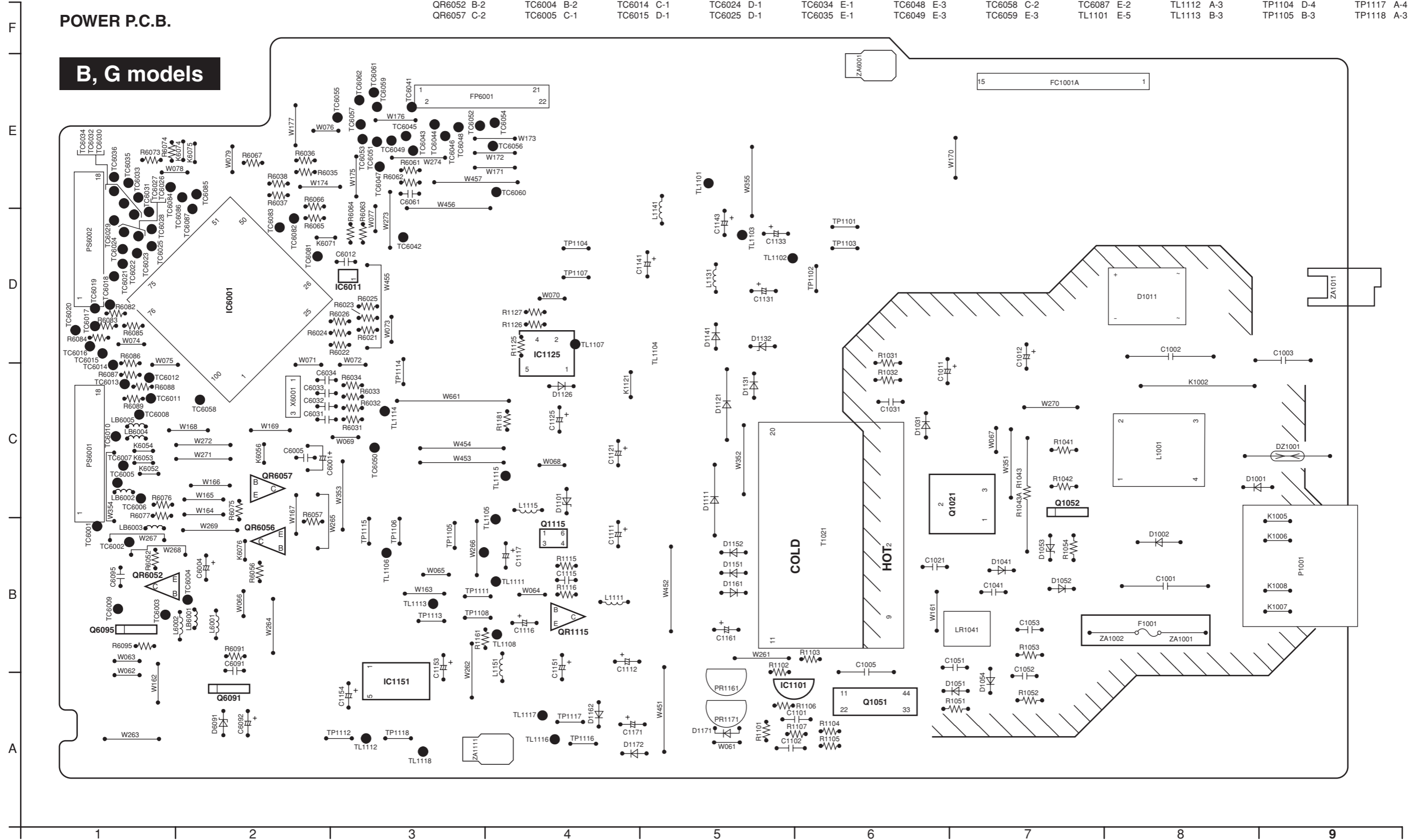
	ABBREVIATIONS	DEFINITIONS
S	SEN SIN1,2 SOUT1,2 SPDI SPDO SPEN SPRCLK SPWCLK SQCK SQCX SRDATA SRMADR SRMDT0~7 SS STAT STCLK STD0~UP STENABLE STSEL STVALID SUBC SBCK SUBQ SYSCLK	SERIAL PORT ENABLE SERIAL DATA IN SERIAL DATA OUT SERIAL PORT DATA INPUT SERIAL PORT DATA OUTPUT SERIAL PORT R/W ENABLE SERIAL PORT READ CLOCK SERIAL PORT WRITE CLOCK SUB CODE Q CLOCK SUB CODE Q DATA READ CLOCK SERIAL DATA SRAM ADDRESS BUS SRAM DATA BUS 0~7 START/STOP STATUS STREAM DATA CLOCK STREAM DATA STREAM DATA INPUT ENABLE STREAM DATA POLARITY SELECT STREAM DATA VALIDITY SUB CODE SERIAL SUB CODE CLOCK SUB CODE Q DATA SYSTEM CLOCK
T	TE TIBAL TRCRS TRON TRSON	TRACKING ERROR BALANCE CONTROL TRACK CROSS SIGNAL TRACKING ON TRAVERSE SERVO ON
V	VBLANK VCC VCDCONT VDD VFB VREF VSS	V BLANKING COLLECTOR POWER SUPPLY VOLTAGE VIDEO CD CONTROL (TRACKING BALANCE) DRAIN POWER SUPPLY VOLTAGE VIDEO FEED BACK VOLTAGE REFERENCE SOURCE POWER SUPPLY VOLTAGE
W	WAIT WDCK WEH WSR	SUB CYCLE WAIT WORD CLOCK WRITE ENABLE HIGH WORD SELECT RECEIVER
X	X XALE XAREQ XCROM XCS XCSYNC XDS XHSYNCO XHINT XI XINT XMW XO XRE XSRMCE XSRMOE XSRMWE XVCS XVDS XVSYNCO	X'TAL X ADDRESS LATCH ENABLE X AUDIO DATA REQUEST X CD ROM CHIP SELECT X CHIP SELECT X COMPOSITE SYNC X DATA STROBE X HORIZONTAL SYNC OUTPUT XH INTERRUPT REQUEST X'TAL OSCILLATOR INPUT X INTERRUPT X MEMORY WRITE ENABLE X'TAL OSCILLATOR OUTPUT X READ ENABLE X SRAM CHIP ENABLE X SRAM OUTPUT ENABLE X SRAM WRITE ENABLE X V-DEC CHIP SELECT X V-DEC CONTROL BUS STROBE X VERTICAL SYNC OUTPUT

PRINTED CIRCUIT BOARD

Q1021 C-7	IC1101 A-5	TC6006 C-1	TC6016 D-1	TC6026 D-1	TC6036 E-1	TC6050 C-3	TC6060 E-4	TL1102 D-5	TL1114 C-3	TP1106 B-3	DZ1001 C-9
Q1051 A-6	IC1125 D-4	TC6007 C-1	TC6017 D-1	TC6027 D-1	TC6041 E-3	TC6051 E-3	TC6061 E-3	TL1103 D-5	TL1115 C-4	TP1107 D-4	FC1001AE-7
Q1052 C-7	IC1151 A-3	TC6008 C-1	TC6018 D-1	TC6028 D-1	TC6042 D-3	TC6052 E-3	TC6062 E-3	TL1104 B-3	TL1116 A-4	TP1108 B-3	FP6001 E-3
Q1115 B-4	IC6001 D-2	TC6009 B-1	TC6019 D-1	TC6029 D-1	TC6043 E-3	TC6053 E-3	TC6081 D-2	TL1105 B-4	TL1117 A-4	TP1111 B-3	P1001 B-9
Q6091 A-2	IC6011 D-3	TC6010 C-1	TC6020 D-1	TC6030 D-1	TC6044 E-3	TC6054 E-4	TC6082 D-2	TL1106 B-3	TL1118 A-3	TP1113 B-3	PS6001 C-1
Q6095 B-1	TC6001 B-1	TC6011 C-1	TC6021 D-1	TC6031 E-1	TC6045 E-3	TC6055 E-3	TC6083 D-2	TL1107 D-4	TP1101 D-6	TP1114 C-3	PS6002 D-1
QR1115 B-4	TC6002 B-1	TC6012 C-1	TC6022 D-1	TC6032 E-1	TC6046 E-3	TC6056 E-4	TC6085 E-2	TL1108 B-4	TP1102 D-6	TP1115 B-3	
QR6052 B-1	TC6003 B-1	TC6013 C-1	TC6023 D-1	TC6033 E-1	TC6047 E-3	TC6057 E-3	TC6086 E-2	TL1111 B-4	TP1103 D-6	TP1116 A-4	
QR6052 B-2	TC6004 B-2	TC6014 C-1	TC6024 D-1	TC6034 E-1	TC6048 E-3	TC6058 C-2	TC6087 E-2	TL1112 A-3	TP1104 D-4	TP1117 A-4	
QR6057 C-2	TC6005 C-1	TC6015 D-1	TC6025 D-1	TC6035 E-1	TC6049 E-3	TC6059 E-3	TL1101 E-5	TL1113 B-3	TP1105 B-3	TP1118 A-3	

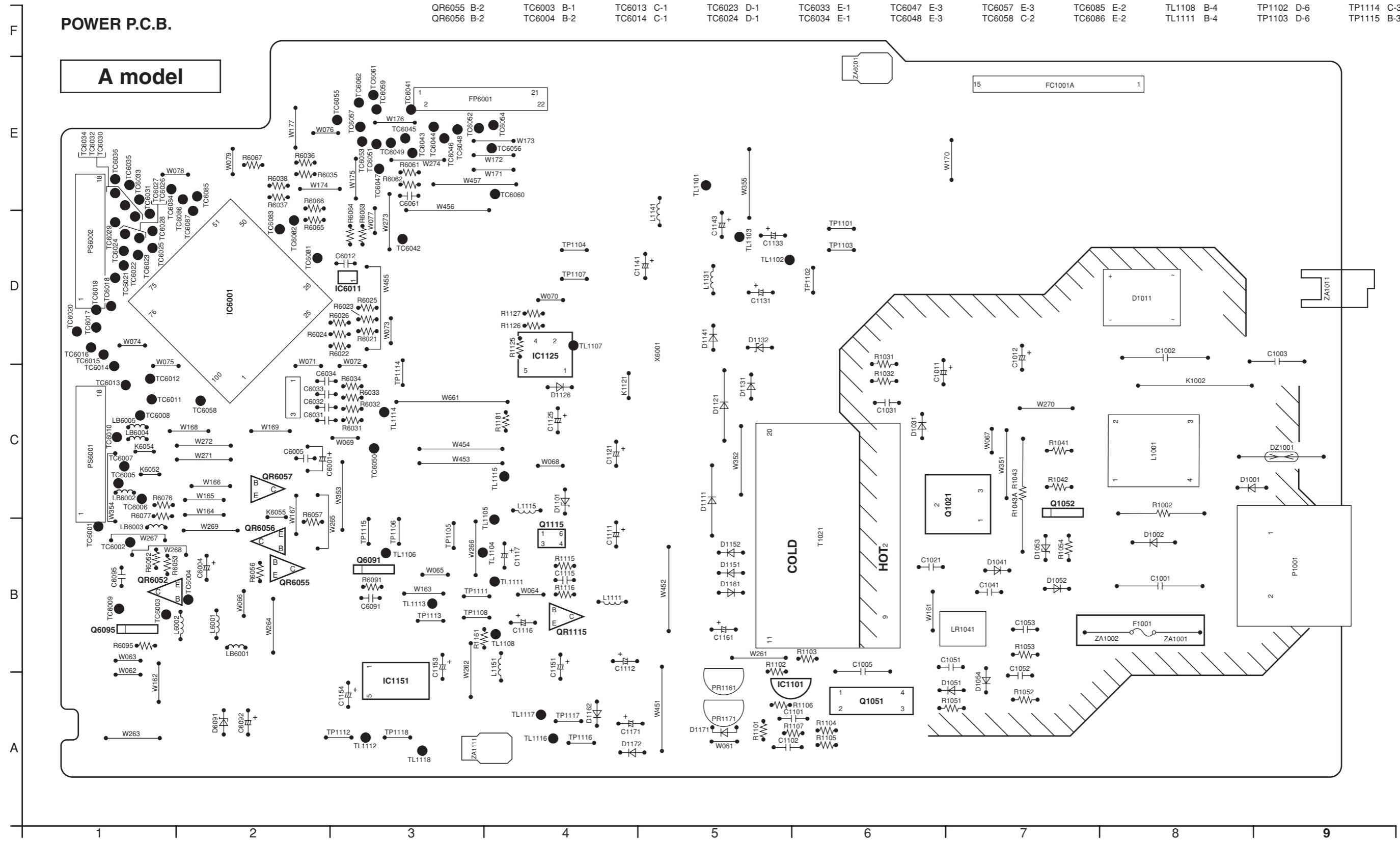
POWER P.C.B.

B, G models



PRINTED CIRCUIT BOARD

Q1021 C-7	QR6057 C-2	TC6005 C-1	TC6015 D-1	TC6025 D-1	TC6035 E-1	TC6049 E-3	TC6059 E-3	TC6087 D-2	TL1112 A-3	TP1104 D-4	TP1116 A-4
Q1051 A-6	IC1101 A-5	TC6006 C-1	TC6016 D-1	TC6026 D-1	TC6036 E-1	TC6050 C-3	TC6060 E-4	TL1101 E-5	TL1113 B-3	TP1105 B-3	TP1117 A-4
Q1052 C-7	IC1125 D-4	TC6007 C-1	TC6017 D-1	TC6027 D-1	TC6041 E-3	TC6051 E-3	TC6061 E-3	TL1102 D-5	TL1114 C-3	TP1106 B-3	TP1118 A-3
Q1115 B-4	IC1151 A-3	TC6008 C-1	TC6018 D-1	TC6028 D-1	TC6042 D-3	TC6052 E-3	TC6062 E-3	TL1103 D-5	TL1115 C-4	TP1107 D-4	DZ1001 C-9
Q6091 B-3	IC6001 D-2	TC6009 B-1	TC6019 D-1	TC6029 D-1	TC6043 E-3	TC6053 E-3	TC6081 D-2	TL1104 B-3	TL1116 A-4	TP1108 B-3	FC1001A E-7
Q6095 B-1	IC6011 D-3	TC6010 C-1	TC6020 D-1	TC6030 D-1	TC6044 E-3	TC6054 E-4	TC6082 D-2	TL1105 C-4	TL1117 A-4	TP1111 B-3	FP6001 E-3
QR1115 B-4	TC6001 B-1	TC6011 C-1	TC6021 D-1	TC6031 E-1	TC6045 E-3	TC6055 E-3	TC6083 D-2	TL1106 B-3	TL1118 A-3	TP1112 A-3	P1001 B-9
QR6052 B-1	TC6002 B-1	TC6012 C-1	TC6022 D-1	TC6032 E-1	TC6046 E-3	TC6056 E-4	TC6084 E-1	TL1107 D-4	TP1101 D-6	TP1113 B-3	PS6001 C-1
QR6055 B-2	TC6003 B-1	TC6013 C-1	TC6023 D-1	TC6033 E-1	TC6047 E-3	TC6057 E-3	TC6085 E-2	TL1108 B-4	TP1102 D-6	TP1114 C-3	PS6002 D-1
QR6056 B-2	TC6004 B-2	TC6014 C-1	TC6024 D-1	TC6034 E-1	TC6048 E-3	TC6058 C-2	TC6086 E-2	TL1111 B-4	TP1103 D-6	TP1115 B-3	



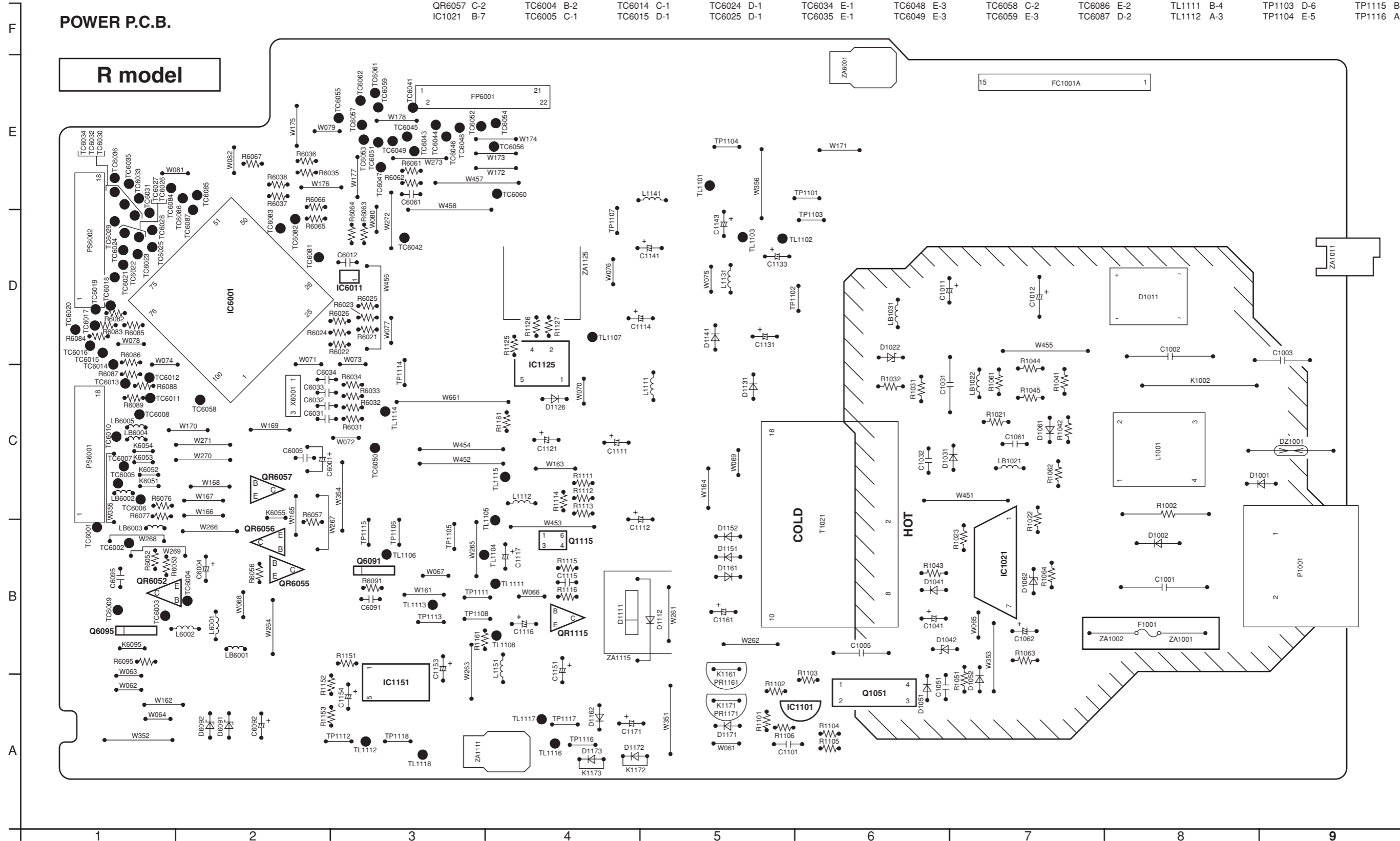


PRINTED CIRCUIT BOARD

Q1051 A-6	IC1101 A-5	TC6006 C-1	TC6016 D-1	TC6026 D-1	TC6036 E-1	TC6050 C-3	TC6060 E-4	TL1101 E-5	TL1113 B-3	TP1105 B-3	TP1117 A-4
Q1115 B-4	IC1125 D-4	TC6007 C-1	TC6017 D-1	TC6027 D-1	TC6041 E-3	TC6051 E-3	TC6061 E-3	TL1102 D-5	TL1114 C-3	TP1106 B-3	TP1118 A-3
Q6091 B-3	IC1151 A-3	TC6008 C-1	TC6018 D-1	TC6028 D-1	TC6042 D-3	TC6052 E-3	TC6062 E-3	TL1103 D-5	TL1115 C-4	TP1107 D-4	DZ1001 C-9
Q6095 B-1	IC6001 D-2	TC6009 B-1	TC6019 D-1	TC6029 D-1	TC6043 E-3	TC6053 E-3	TC6081 D-2	TL1104 B-3	TL1116 A-4	TP1108 B-3	FC1001AE-7
QR1115 B-4	IC6011 D-3	TC6010 C-1	TC6020 D-1	TC6030 D-1	TC6044 E-3	TC6054 E-4	TC6082 D-2	TL1105 C-4	TL1117 A-4	TP1111 B-3	FP6001 E-3
QR6052 B-1	TC6001 B-1	TC6011 C-1	TC6021 D-1	TC6031 E-1	TC6045 E-3	TC6055 E-3	TC6083 D-2	TL1106 B-3	TL1118 A-3	TP1112 A-3	P1001 B-9
QR6055 B-2	TC6002 B-1	TC6012 C-1	TC6022 D-1	TC6032 E-1	TC6046 E-3	TC6056 E-4	TC6084 E-1	TL1107 D-4	TP1101 E-6	TP1113 B-3	PS6001 C-1
QR6056 B-2	TC6003 B-1	TC6013 C-1	TC6023 D-1	TC6033 E-1	TC6047 E-3	TC6057 E-3	TC6085 E-2	TL1108 B-4	TP1102 D-6	TP1114 C-3	PS6002 D-1
QR6057 C-2	TC6004 B-2	TC6014 C-1	TC6024 D-1	TC6034 E-1	TC6048 E-3	TC6058 C-2	TC6086 E-2	TL1111 B-4	TP1103 D-6	TP1115 B-3	
IC1021 B-7	TC6005 C-1	TC6015 D-1	TC6025 D-1	TC6035 E-1	TC6049 E-3	TC6059 E-3	TC6087 D-2	TL1112 A-3	TP1104 E-5	TP1116 A-4	

POWER P.C.B.

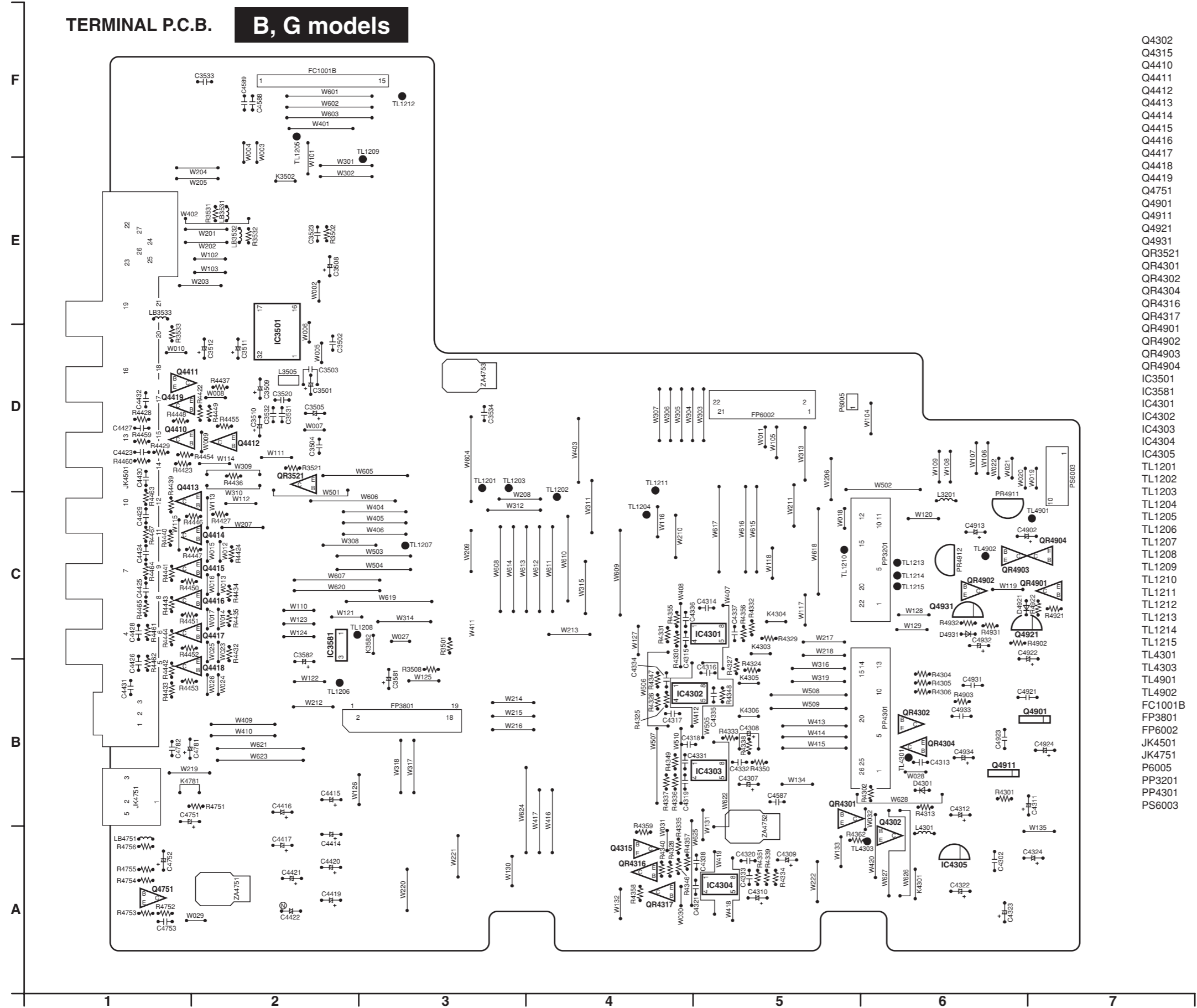
R model





PRINTED CIRCUIT BOARD

TERMINAL P.C.B. B, G models

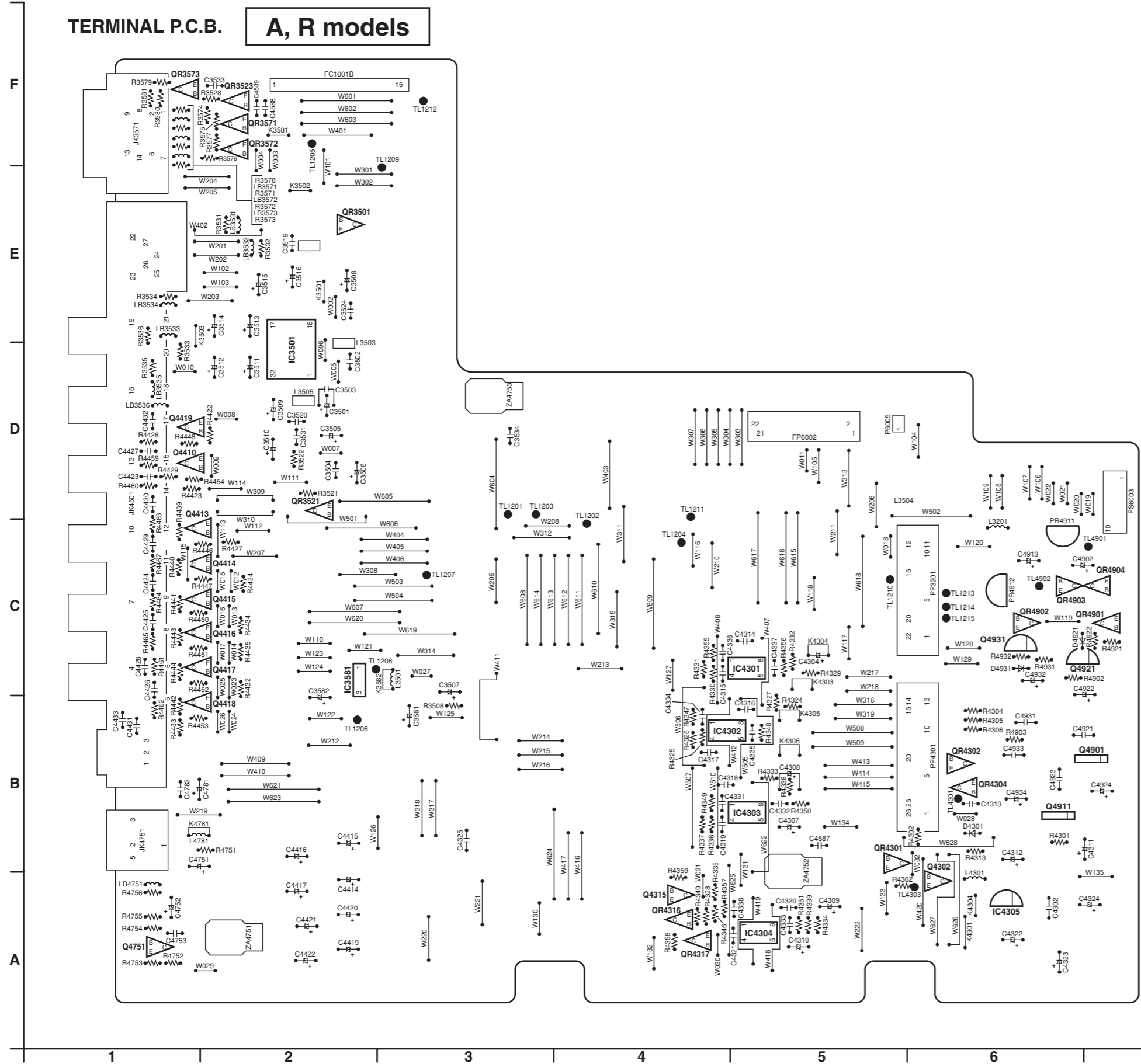


- Q4302 A-6
- Q4315 A-4
- Q4410 D-1
- Q4411 D-1
- Q4412 D-2
- Q4413 D-1
- Q4414 C-2
- Q4415 C-2
- Q4416 C-2
- Q4417 C-2
- Q4418 B-2
- Q4419 D-1
- Q4751 A-1
- Q4901 B-7
- Q4911 B-6
- Q4921 C-6
- Q4931 C-6
- QR3521 D-2
- QR4301 B-5
- QR4302 B-6
- QR4304 B-6
- QR4316 A-4
- QR4317 A-4
- QR4901 C-7
- QR4902 C-6
- QR4903 C-6
- QR4904 C-7
- IC3501 D-2
- IC3581 C-2
- IC4301 C-5
- IC4302 B-4
- IC4303 B-5
- IC4304 A-5
- IC4305 A-6
- TL1201 D-3
- TL1202 C-4
- TL1203 D-3
- TL1204 C-4
- TL1205 F-2
- TL1206 B-2
- TL1207 C-3
- TL1208 C-2
- TL1209 E-3
- TL1210 C-5
- TL1211 D-4
- TL1212 F-3
- TL1213 C-6
- TL1214 C-6
- TL1215 C-6
- TL4301 B-6
- TL4303 A-6
- TL4901 C-7
- TL4902 C-6
- FC1001B F-2
- FP6002 D-5
- JK4501 D-1
- JK4751 B-1
- P6005 D-5
- PP3201 C-6
- PP4301 B-6
- PS6003 D-7

PRINTED CIRCUIT BOARD

TERMINAL P.C.B.

A, R models



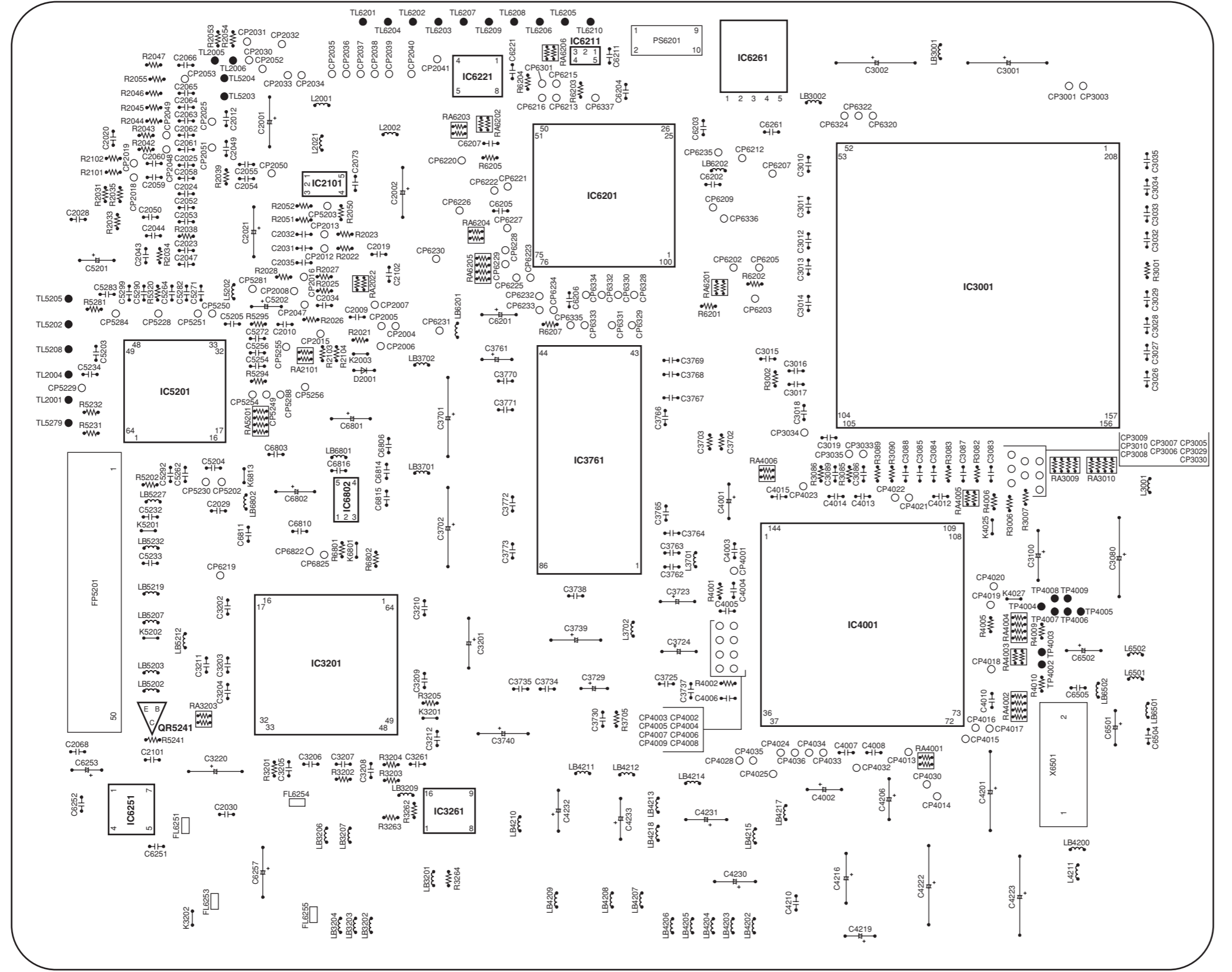
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- Q4315 A-4
- Q4410 D-1
- Q4413 C-2
- Q4414 C-2
- Q4415 C-2
- Q4416 C-2
- Q4417 C-2
- Q4418 B-2
- Q4419 D-1
- Q4751 A-1
- Q4901 B-7
- Q4911 B-6
- Q4921 C-6
- Q4931 C-6
- QR3501 E-2
- QR3521 D-2
- QR3523 F-2
- QR3571 F-2
- QR3572 F-2
- QR3573 F-1
- QR4301 B-5
- QR4302 B-6
- QR4304 B-6
- QR4316 A-4
- QR4317 A-4
- QR4901 C-7
- QR4902 C-6
- QR4903 C-6
- QR4904 C-7
- IC3501 D-2
- IC3581 C-2
- IC4301 C-5
- IC4302 B-4
- IC4303 B-5
- IC4304 A-5
- IC4305 A-6
- TL1201 D-3
- TL1202 C-4
- TL1203 D-3
- TL1204 C-4
- TL1205 F-2
- TL1206 B-2
- TL1207 C-3
- TL1208 C-2
- TL1209 E-3
- TL1210 C-5
- TL1211 D-4
- TL1212 F-3
- TL1213 C-6
- TL1214 C-6
- TL1215 C-6
- TL4301 B-6
- TL4303 A-6
- TL4901 C-7
- TL4902 C-6
- FC1001B F-2
- FP6002 D-5
- JK3571 F-1
- JK4501 D-1
- JK4751 B-1
- P6005 D-5
- PP3201 C-6
- PP4301 B-6
- PS6003 D-7

PRINTED CIRCUIT BOARD

MODULE P.C.B. 1/2 (COMPONENT SIDE)

B, G models

F  
E  
D  
C  
B  
A



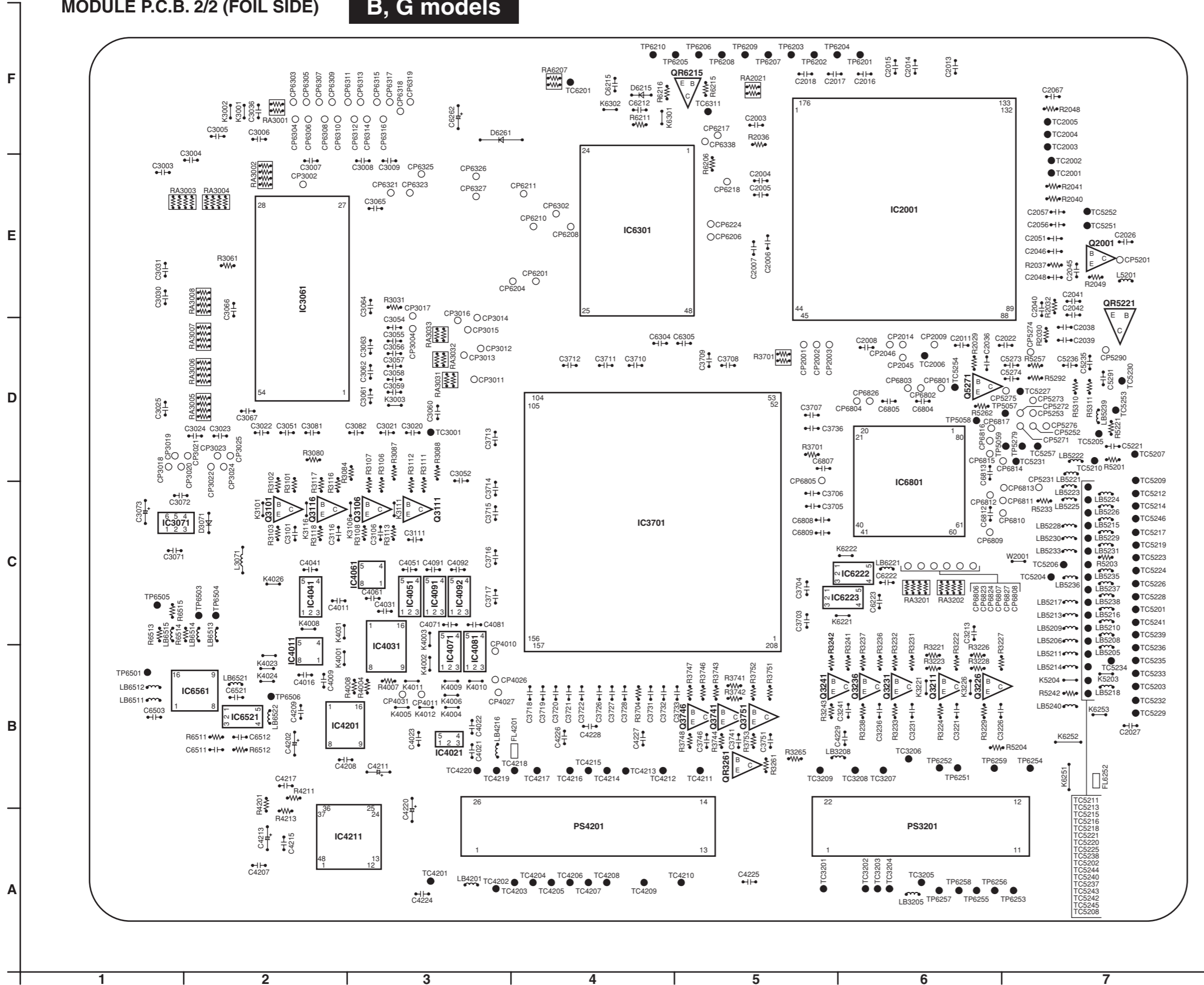
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IC3001	E-6	CP4025	B-5	TL6203	F-3
IC3201	B-3	CP4028	B-5	TL6204	F-3
IC3261	B-3	CP4030	B-6	TL6205	F-4
IC3761	D-4	CP4032	B-6	TL6206	F-4
IC4001	C-6	CP4032	B-6	TL6207	F-3
IC5201	D-2	CP4033	B-5	TL6208	F-4
IC6201	E-4	CP4034	B-5	TL6209	F-4
IC6211	F-4	CP4035	B-5	TL6210	F-4
IC6221	F-3	CP4036	B-5	TP4002	C-7
IC6251	B-2	CP5202	D-2	TP4003	C-7
IC6261	F-5	CP5203	E-3	TP4004	C-7
IC6802	C-3	CP5228	D-2	TP4005	C-7
CP2004	D-3	CP5229	D-1	TP4006	C-7
CP2005	D-3	CP5230	D-2	TP4007	C-7
CP2006	D-3	CP5249	D-2	TP4008	C-7
CP2007	E-3	CP5250	D-2	TP4009	C-7
CP2008	E-2	CP5251	D-2	FP5201	C-1
CP2012	E-3	CP5254	D-2	PS6201	F-5
CP2013	E-3	CP5255	D-2		
CP2015	D-3	CP5256	D-3		
CP2016	E-3	CP5281	E-2		
CP2018	E-2	CP5284	D-1		
CP2019	E-2	CP5288	D-2		
CP2025	F-2	CP6202	E-5		
CP2030	F-2	CP6203	E-5		
CP2031	F-2	CP6205	E-5		
CP2032	F-2	CP6207	E-5		
CP2033	F-2	CP6209	E-5		
CP2034	F-3	CP6212	E-5		
CP2035	F-3	CP6213	F-4		
CP2036	F-3	CP6215	F-4		
CP2037	F-3	CP6216	F-4		
CP2038	F-3	CP6219	C-2		
CP2039	F-3	CP6220	E-3		
CP2040	F-3	CP6221	E-4		
CP2041	F-3	CP6222	E-4		
CP2047	E-3	CP6223	E-4		
CP2048	E-2	CP6225	E-4		
CP2049	E-2	CP6226	E-3		
CP2050	E-2	CP6227	E-4		
CP2051	E-2	CP6228	E-4		
CP2052	F-2	CP6229	E-4		
CP2053	F-2	CP6230	E-3		
CP3001	F-7	CP6231	D-3		
CP3003	F-7	CP6232	E-4		
CP3005	D-7	CP6233	D-4		
CP3006	D-7	CP6234	D-4		
CP3007	D-7	CP6235	D-4		
CP3008	D-7	CP6235	E-5		
CP3009	D-7	CP6301	F-4		
CP3010	D-7	CP6320	F-6		
CP3029	D-7	CP6322	F-6		
CP3030	C-7	CP6324	F-6		
CP3033	D-6	CP6328	E-4		
CP3034	D-5	CP6329	D-4		
CP3035	D-6	CP6330	E-4		
CP4001	C-5	CP6331	D-4		
CP4002	C-5	CP6332	E-4		
CP4003	C-5	CP6333	D-4		
CP4004	C-5	CP6334	E-4		
CP4005	C-5	CP6336	E-5		
CP4006	C-5	CP6337	F-4		
CP4008	B-5	CP6822	C-3		
CP4009	B-5	CP6825	C-3		
CP4013	B-6	TL2001	D-1		
CP4014	B-6	TL2004	D-1		
CP4015	B-6	TL2005	F-2		
CP4016	B-6	TL2006	F-2		
CP4017	B-6	TL5202	D-1		
CP4018	B-6	TL5203	F-2		
CP4019	C-6	TL5204	F-2		
CP4020	C-6	TL5205	E-1		
CP4021	C-6	TL5208	D-1		
CP4022	C-6	TL5279	D-1		



PRINTED CIRCUIT BOARD

MODULE P.C.B. 2/2 (FOIL SIDE)

B, G models

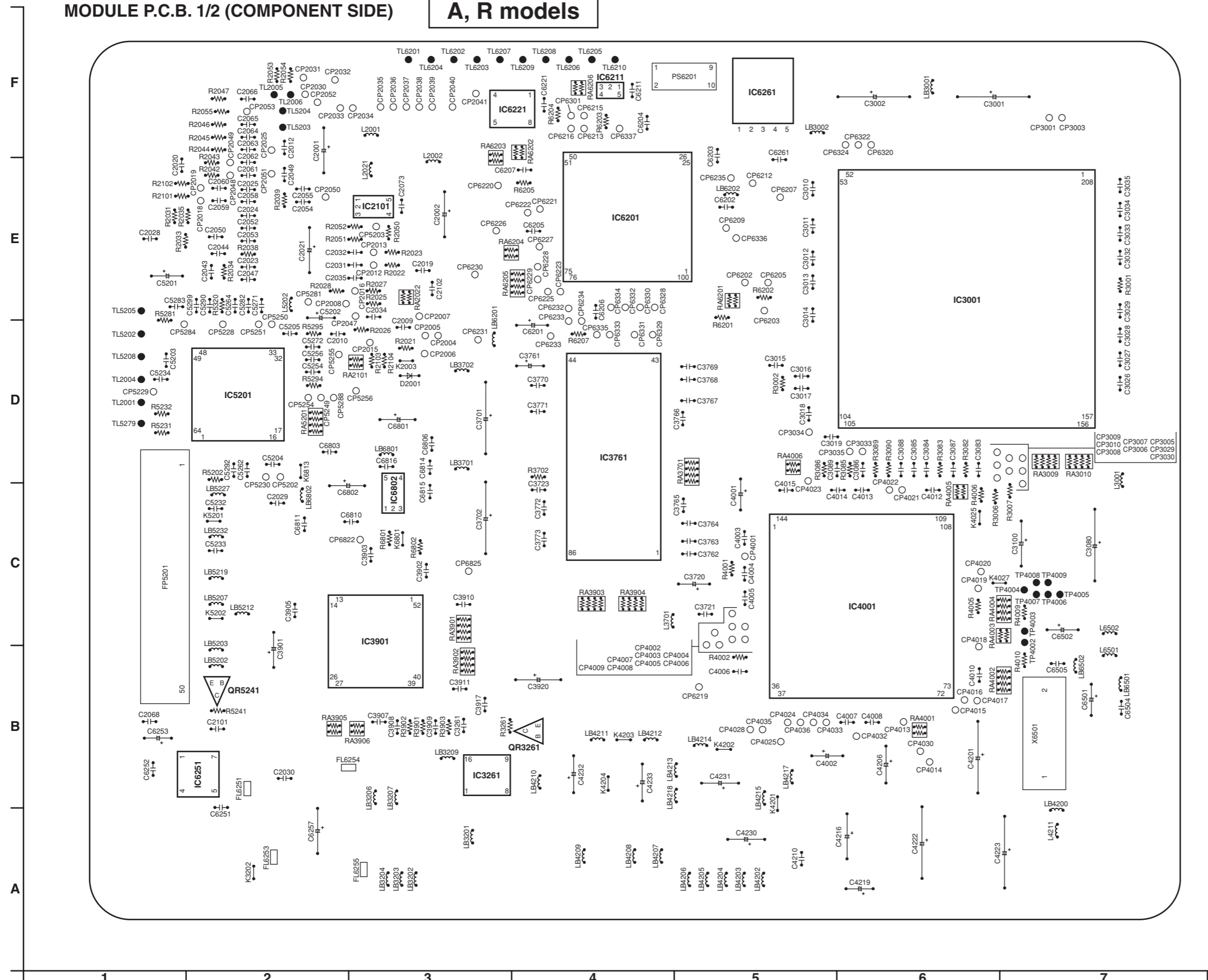


Q3101	C-2	CP6003	F-2	TC4209	A-4	TP6210	F-4
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Q3106	C-3	CP6005	F-2	TC4211	B-5	TP6252	B-6
Q3111	C-3	CP6006	F-2	TC4212	B-4	TP6253	A-7
Q3746	B-5	CP6007	F-2	TC4213	B-4	TP6254	B-7
Q3741	B-5	CP6008	F-2	TC4214	B-4	TP6255	A-6
Q3751	B-5	CP6009	F-2	TC4215	B-4	TP6256	A-6
Q3241	B-5	CP6010	F-2	TC4216	B-4	TP6257	A-6
Q3236	B-6	CP6201	E-4	TC4217	B-4	TP6258	A-6
Q3231	B-6	CP6204	E-4	TC4218	B-4	TP6501	B-1
Q3211	B-6	CP6206	E-5	TC4219	B-3	TP6503	C-2
Q3226	B-6	CP6208	E-4	TC4220	B-3	TP6504	C-2
Q5271	D-6	CP6210	E-4	TC5201	B-7	TP6505	C-1
Q2001	E-7	CP6211	E-4	TC5202	B-7	TP6506	B-2
QR3261	B-5	CP6217	F-6	TC5203	B-7	PS3201	A-6
QR5221	D-7	CP6218	E-5	TC5204	B-7	PS4201	A-4
QR6215	F-5	CP6224	E-5	TC5205	D-7		
IC2001	E-6	CP6302	E-4	TC5206	B-7		
IC3061	E-2	CP6311	F-3	TC5207	D-7		
IC3071	C-1	CP6312	F-3	TC5208	B-7		
IC3701	C-4	CP6313	F-3	TC5209	B-7		
IC4011	B-2	CP6314	F-3	TC5210	D-7		
IC4021	B-3	CP6315	F-3	TC5211	B-7		
IC4031	B-3	CP6316	F-3	TC5212	B-7		
IC4041	C-2	CP6317	F-3	TC5213	B-7		
IC4051	C-3	CP6318	F-3	TC5214	B-7		
IC4061	C-3	CP6319	F-3	TC5215	B-7		
IC4071	B-3	CP6321	E-3	TC5216	B-7		
IC4081	B-3	CP6323	E-3	TC5217	B-7		
IC4091	C-3	CP6325	E-3	TC5218	B-7		
IC4092	C-3	CP6326	E-3	TC5219	B-7		
IC4201	B-2	CP6327	E-3	TC5220	B-7		
IC4211	A-2	CP6338	F-6	TC5221	B-7		
IC6222	C-6	CP6801	D-6	TC5223	B-7		
IC6223	C-6	CP6802	D-6	TC5224	B-7		
IC6301	E-4	CP6803	C-6	TC5225	B-7		
IC6521	B-2	CP6803	D-6	TC5226	B-7		
IC6561	B-2	CP6804	D-6	TC5227	D-7		
IC6801	C-6	CP6805	C-5	TC5228	B-7		
CP2001	D-5	CP6807	C-6	TC5229	B-7		
CP2002	D-5	CP6808	C-6	TC5230	D-7		
CP2003	D-5	CP6809	C-6	TC5231	D-7		
CP2009	D-6	CP6810	B-7	TC5232	B-7		
CP2014	D-6	CP6811	B-7	TC5233	B-7		
CP2045	D-6	CP6812	C-6	TC5234	B-7		
CP2046	D-6	CP6813	B-7	TC5235	B-7		
CP3002	E-2	CP6814	D-6	TC5236	B-7		
CP3004	D-3	CP6815	D-6	TC5237	B-7		
CP3011	D-3	CP6816	D-6	TC5238	B-7		
CP3012	D-3	CP6817	D-6	TC5239	B-7		
CP3013	D-3	CP6823	C-6	TC5240	B-7		
CP3014	D-3	CP6824	C-6	TC5241	B-7		
CP3015	D-3	CP6826	D-6	TC5242	B-7		
CP3016	D-3	CP6827	C-6	TC5243	B-7		
CP3017	D-3	TC2001	E-7	TC5244	B-7		
CP3018	D-1	TC2002	E-7	TC5245	B-7		
CP3019	D-1	TC2003	F-7	TC5246	B-7		
CP3020	D-1	TC2004	F-7	TC5251	E-7		
CP3021	D-2	TC2005	F-7	TC5252	E-7		
CP3022	D-2	TC2006	D-6	TC5253	D-7		
CP3023	D-2	TC3001	D-3	TC5254	D-6		
CP3024	D-2	TC3201	A-5	TC5257	D-7		
CP3025	D-2	TC3202	A-6	TC6201	F-4		
CP4010	B-3	TC3203	A-6	TC6311	F-6		
CP4011	B-3	TC3204	A-6	TP5057	D-7		
CP4026	B-3	TC3205	A-6	TP5058	D-6		
CP4027	B-3	TC3206	B-6	TP5059	D-7		
CP4031	B-3	TC3207	B-6	TP5279	D-7		
CP5201	E-7	TC3208	B-6	TP6201	F-6		
CP5231	B-7	TC3209	B-5	TP6202	F-6		
CP5252	D-7	TC4201	A-3	TP6203	F-6		
CP5253	D-7	TC4202	A-3	TP6204	F-6		
CP5271	D-7	TC4203	A-4	TP6205	F-4		
CP5272	D-7	TC4204	A-4	TP6205	F-6		
CP5273	D-7	TC4205	A-4	TP6206	F-6		
CP5274	D-7	TC4206	A-4	TP6207	F-6		
CP5275	D-7	TC4207	A-4	TP6208	F-6		
CP5290	D-7	TC4208	A-4	TP6209	F-6		

PRINTED CIRCUIT BOARD

MODULE P.C.B. 1/2 (COMPONENT SIDE)

A, R models



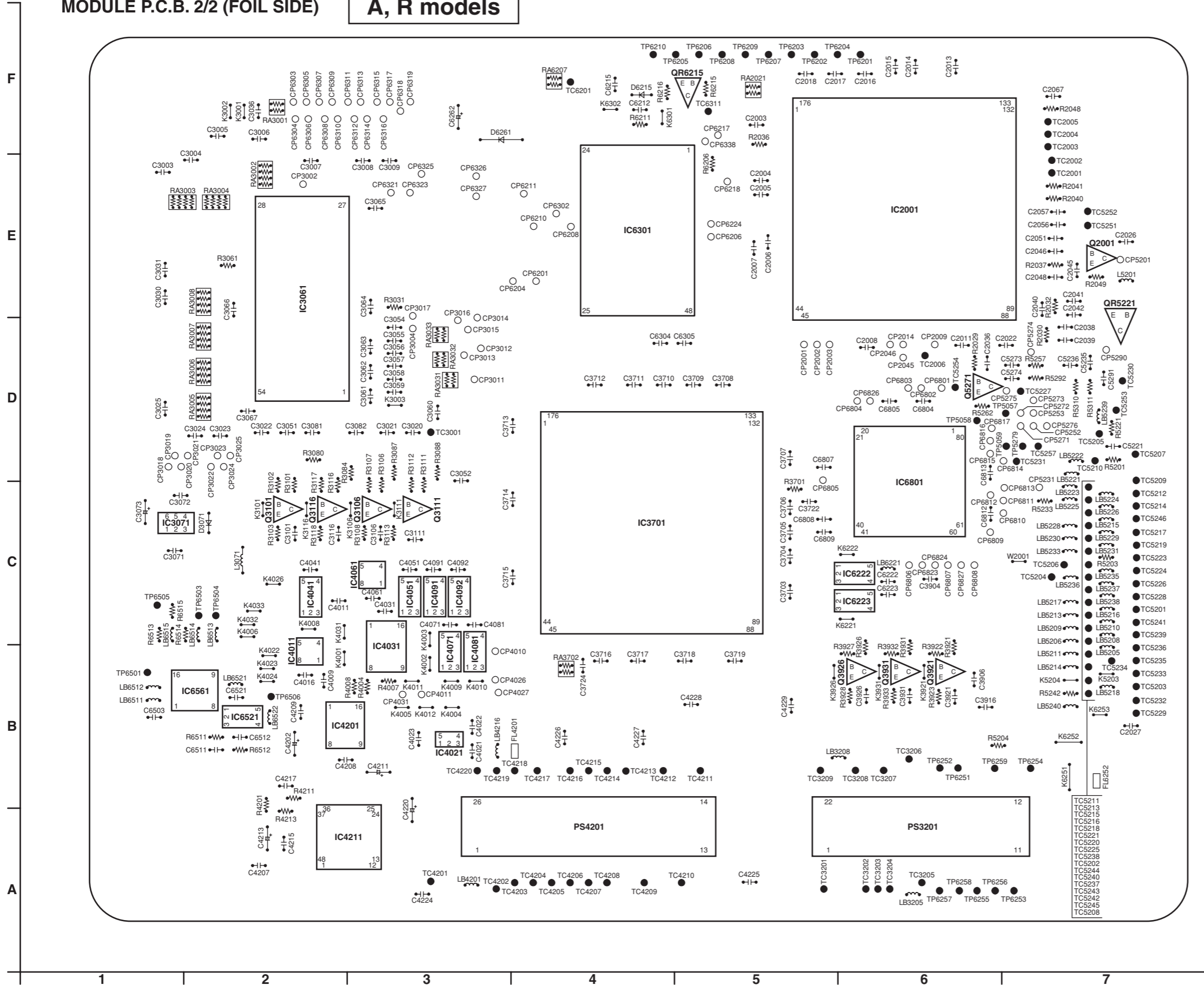
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QR5241	B-2	CP4022	C-6	TL5279	D-1
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IC3001	E-6	CP4024	B-5	TL6202	F-3
IC3261	B-3	CP4025	B-5	TL6203	F-3
IC3761	D-4	CP4028	B-5	TL6204	F-3
IC3901	C-3	CP4030	B-6	TL6205	F-4
IC4001	C-6	CP4032	B-6	TL6206	F-4
IC5201	D-2	CP4033	B-5	TL6207	F-3
IC6201	E-4	CP4034	B-5	TL6208	F-4
IC6211	F-4	CP4035	B-5	TL6209	F-4
IC6221	F-4	CP4036	B-5	TL6210	F-4
IC6251	B-2	CP5202	D-2	TP4002	C-7
IC6261	F-5	CP5203	E-3	TP4003	C-7
IC6802	C-3	CP5228	D-2	TP4004	C-7
CP2004	D-3	CP5229	D-1	TP4005	C-7
CP2005	D-3	CP5230	D-2	TP4006	C-7
CP2006	D-3	CP5249	D-2	TP4007	C-7
CP2007	E-3	CP5250	D-2	TP4008	C-7
CP2008	E-3	CP5251	D-2	TP4009	C-7
CP2012	E-3	CP5254	D-2	FP5201	C-1
CP2013	E-3	CP5255	D-2	PS6201	F-5
CP2015	D-3	CP5256	D-3		
CP2016	E-3	CP5281	E-2		
CP2018	E-2	CP5284	D-2		
CP2019	E-2	CP5288	D-2		
CP2025	F-2	CP6202	E-5		
CP2030	F-2	CP6203	E-5		
CP2031	F-2	CP6205	E-5		
CP2032	F-2	CP6207	E-5		
CP2033	F-2	CP6209	E-5		
CP2034	F-3	CP6212	E-5		
CP2035	F-3	CP6213	F-4		
CP2036	F-3	CP6215	F-4		
CP2037	F-3	CP6216	F-4		
CP2038	F-3	CP6219	B-5		
CP2039	F-3	CP6220	E-3		
CP2040	F-3	CP6221	E-4		
CP2041	F-3	CP6222	E-4		
CP2042	E-3	CP6223	E-4		
CP2043	E-2	CP6225	E-4		
CP2044	E-2	CP6226	E-3		
CP2045	E-2	CP6227	E-4		
CP2046	E-2	CP6228	E-4		
CP2047	F-2	CP6229	E-4		
CP2048	F-2	CP6230	E-3		
CP2049	E-2	CP6231	D-3		
CP2050	E-2	CP6232	E-4		
CP2051	E-2	CP6233	E-4		
CP2052	F-2	CP6234	E-4		
CP2053	F-2	CP6235	E-5		
CP2054	F-7	CP6236	F-4		
CP3001	F-7	CP6237	F-4		
CP3003	D-7	CP6238	E-4		
CP3005	D-7	CP6239	F-4		
CP3006	D-7	CP6240	F-6		
CP3007	D-7	CP6241	F-6		
CP3009	D-7	CP6242	F-6		
CP3010	D-7	CP6243	F-6		
CP3029	D-7	CP6244	F-6		
CP3030	D-7	CP6245	F-6		
CP3033	D-6	CP6246	F-6		
CP3034	D-5	CP6247	F-6		
CP3035	D-6	CP6248	F-6		
CP4001	C-5	CP6249	F-6		
CP4002	C-5	CP6250	F-6		
CP4003	C-5	CP6251	F-6		
CP4004	C-5	CP6252	F-6		
CP4005	C-5	CP6253	F-6		
CP4006	C-5	CP6254	F-6		
CP4007	C-5	CP6255	F-6		
CP4008	C-5	CP6256	F-6		
CP4009	C-5	CP6257	F-6		
CP4013	B-6	CP6258	F-6		
CP4014	B-6	CP6259	F-6		
CP4015	B-6	CP6260	F-6		
CP4016	B-6	CP6261	F-6		
CP4017	B-6	CP6262	F-6		
CP4018	C-6	CP6263	F-6		
CP4019	C-6	CP6264	F-6		
CP4020	C-6	CP6265	F-6		



PRINTED CIRCUIT BOARD

MODULE P.C.B. 2/2 (FOIL SIDE)

A, R models

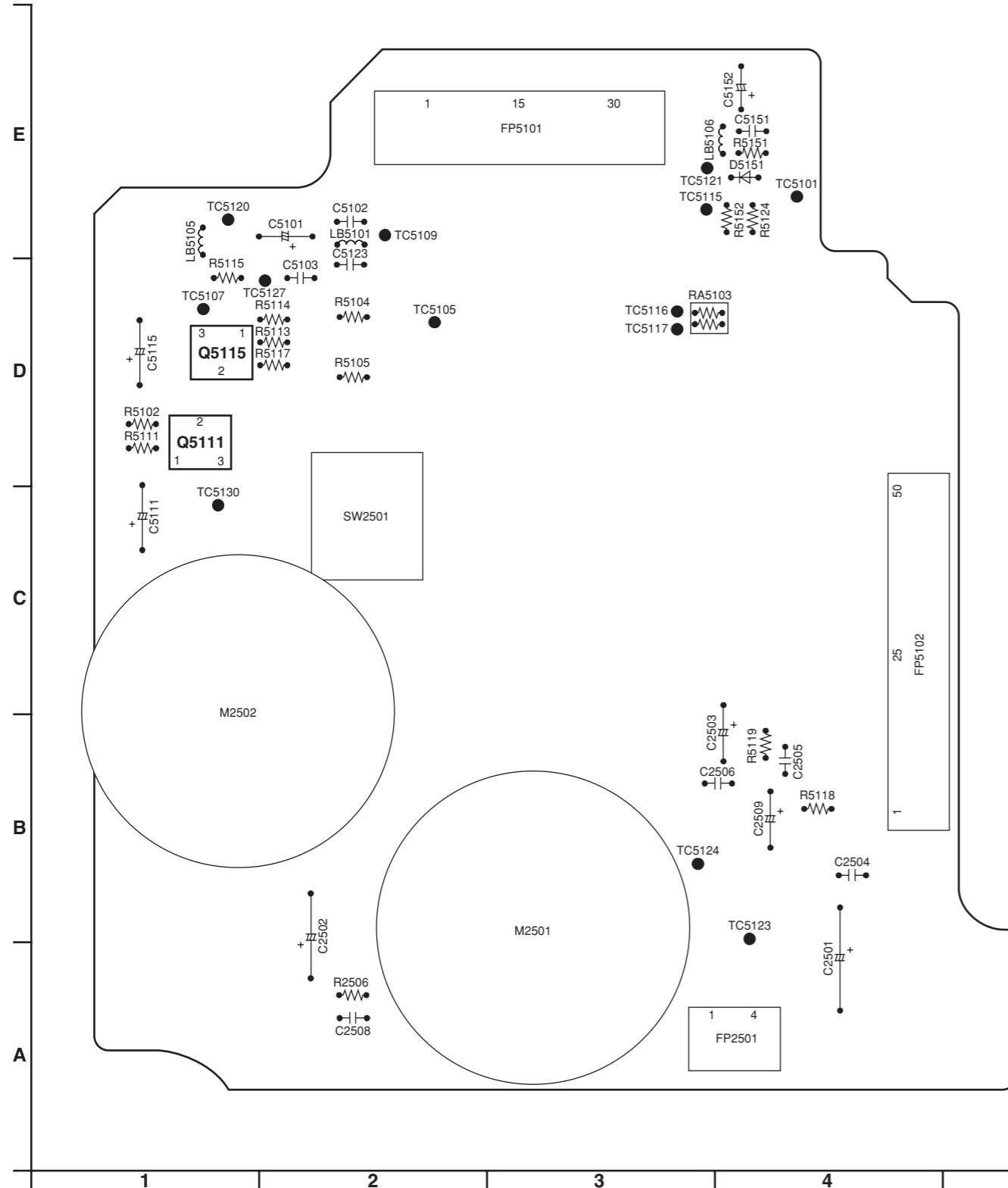


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Q3101	C-2	CP6218	E-5	TC4217	B-4	TP6259	B-6
Q3106	C-3	CP6224	E-5	TC4218	B-4	TP6501	B-1
Q3111	C-3	CP6302	E-4	TC4219	B-3	TP6503	C-2
Q3116	C-2	CP6303	F-2	TC4220	B-3	TP6504	C-2
Q3921	B-6	CP6304	F-2	TC5201	C-7	TP6505	C-1
Q3926	B-6	CP6305	F-2	TC5202	C-7	PS3201	A-6
Q3931	B-6	CP6306	F-2	TC5203	B-7	PS4201	A-4
QR5221	E-7	CP6307	F-2	TC5204	C-7		
QR6215	F-5	CP6308	F-2	TC5205	D-7		
IC2001	E-6	CP6309	F-2	TC5206	C-7		
IC3061	E-2	CP6310	F-2	TC5207	D-7		
IC3071	C-1	CP6311	F-3	TC5208	B-7		
IC3701	C-4	CP6312	F-3	TC5209	D-7		
IC4011	B-2	CP6313	F-3	TC5210	D-7		
IC4021	B-3	CP6314	F-3	TC5211	D-7		
IC4031	B-3	CP6315	F-3	TC5212	C-7		
IC4041	C-2	CP6316	F-3	TC5213	C-7		
IC4051	C-3	CP6317	F-3	TC5214	C-7		
IC4061	C-3	CP6318	F-3	TC5215	C-7		
IC4071	B-3	CP6319	F-3	TC5216	C-7		
IC4081	B-3	CP6321	E-3	TC5217	C-7		
IC4091	C-3	CP6323	E-3	TC5218	C-7		
IC4092	C-3	CP6325	E-3	TC5219	C-7		
IC4201	B-2	CP6326	E-3	TC5220	C-7		
IC4211	A-3	CP6327	E-3	TC5221	C-7		
IC6222	C-6	CP6337	F-5	TC5223	C-7		
IC6223	C-6	CP6801	D-6	TC5224	C-7		
IC6301	E-4	CP6802	D-6	TC5225	C-7		
IC6521	B-2	CP6803	D-6	TC5226	C-7		
IC6561	B-2	CP6804	D-6	TC5227	D-7		
IC6801	D-6	CP6805	D-5	TC5228	C-7		
CP2001	D-5	CP6806	C-6	TC5229	B-7		
CP2002	D-5	CP6807	C-6	TC5230	D-7		
CP2003	D-5	CP6808	C-6	TC5231	D-7		
CP2009	D-6	CP6809	C-6	TC5232	B-7		
CP2014	D-6	CP6810	C-7	TC5233	B-7		
CP2045	D-6	CP6811	C-7	TC5234	B-7		
CP2046	D-6	CP6812	C-6	TC5235	B-7		
CP3002	E-2	CP6813	D-7	TC5236	C-7		
CP3004	D-3	CP6814	D-7	TC5237	C-7		
CP3011	D-3	CP6815	D-6	TC5238	C-7		
CP3012	D-3	CP6816	D-6	TC5239	C-7		
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CP3016	E-3	CP6826	D-6	TC5243	B-7		
CP3017	E-3	CP6827	C-6	TC5244	C-7		
CP3018	D-1	TC2001	E-7	TC5245	B-7		
CP3019	D-1	TC2002	F-7	TC5246	C-7		
CP3020	D-2	TC2003	F-7	TC5251	E-7		
CP3021	D-2	TC2004	F-7	TC5252	E-7		
CP3022	D-2	TC2005	F-7	TC5253	D-7		
CP3023	D-2	TC3001	D-3	TC5254	D-6		
CP3024	D-2	TC3201	A-5	TC5257	D-7		
CP3025	D-2	TC3202	A-6	TC6201	F-4		
CP4010	B-3	TC3203	A-6	TC6311	F-5		
CP4011	B-3	TC3204	A-6	TP5057	D-7		
CP4026	B-3	TC3205	A-6	TP5058	D-6		
CP4027	B-3	TC3206	B-6	TP5059	D-7		
CP4031	B-3	TC3207	B-6	TP6201	F-6		
CP5201	E-7	TC3208	B-6	TP6202	F-5		
CP5231	D-7	TC3209	B-5	TP6203	F-5		
CP5252	D-7	TC4201	A-3	TP6204	F-6		
CP5253	D-7	TC4202	A-3	TP6205	F-5		
CP5271	D-7	TC4203	A-4	TP6206	F-5		
CP5272	D-7	TC4204	A-4	TP6207	F-5		
CP5273	D-7	TC4205	A-4	TP6208	F-5		
CP5274	D-7	TC4206	A-4	TP6209	F-5		
CP5275	D-7	TC4207	A-4	TP6210	F-4		
CP5290	D-7	TC4209	A-4	TP6251	B-6		
CP6201	E-4	TC4210	A-5	TP6252	B-6		
CP6204	E-4	TC4211	B-5	TP6253	A-7		
CP6206	E-5	TC4212	B-4	TP6254	B-7		
CP6208	E-4	TC4213	B-4	TP6255	A-6		
CP6210	E-4	TC4214	B-4	TP6256	A-6		
CP6211	E-4	TC4215	B-4	TP6257	A-6		

■ PRINTED CIRCUIT BOARD

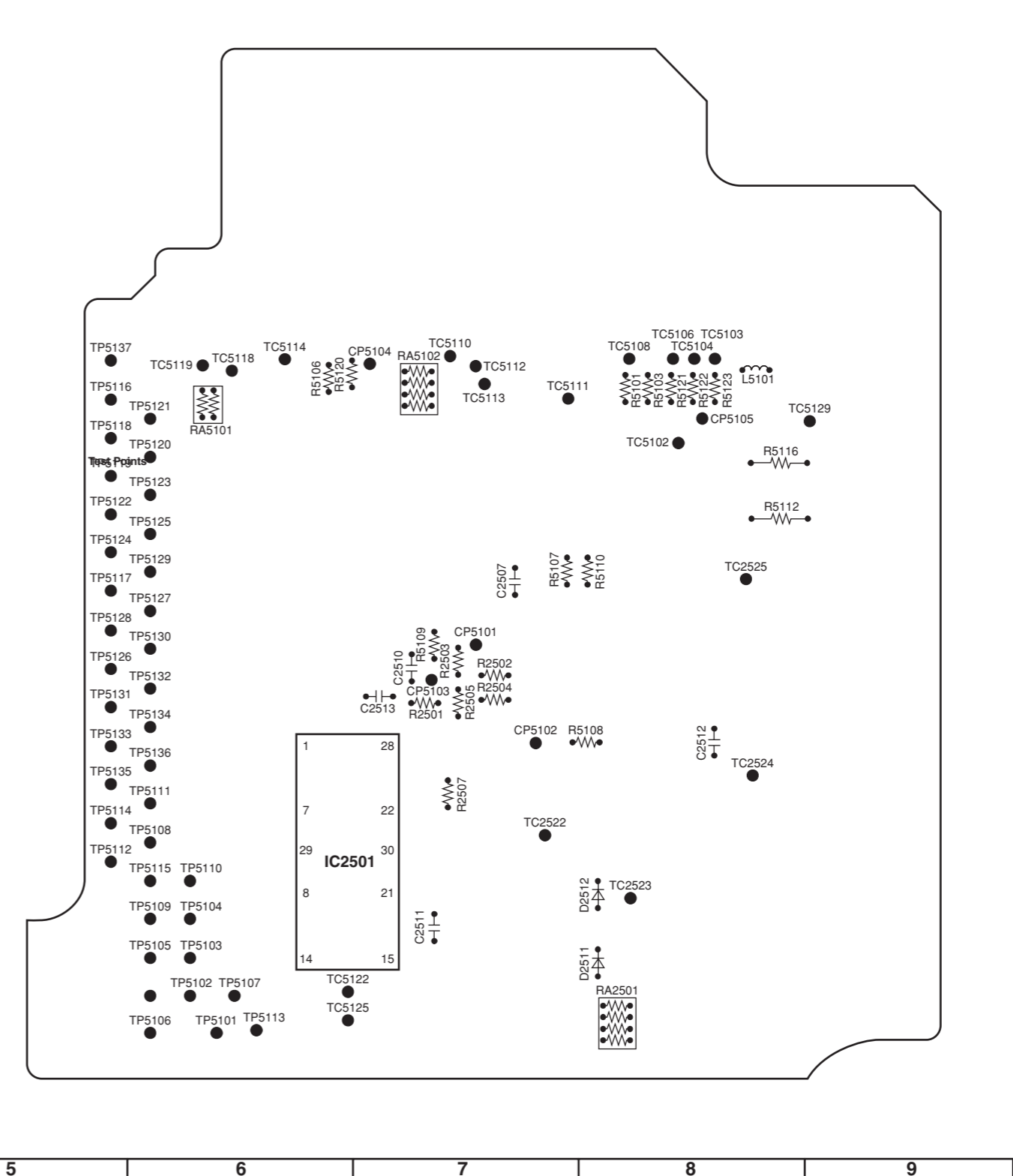
INTERMEDIATE P.C.B. 1/2 (COMPONENT SIDE)

Q5111	D-1	TC5120	E-1
Q5115	D-1	TC5121	E-3
TC5101	E-4	TC5123	B-4
TC5105	D-2	TC5124	B-3
TC5107	D-1	TC5127	D-2
TC5109	E-2	TC5130	C-1
TC5115	E-3	FP2501	A-4
TC5116	D-3	FP5101	E-3
TC5117	D-3	FP5102	C-4



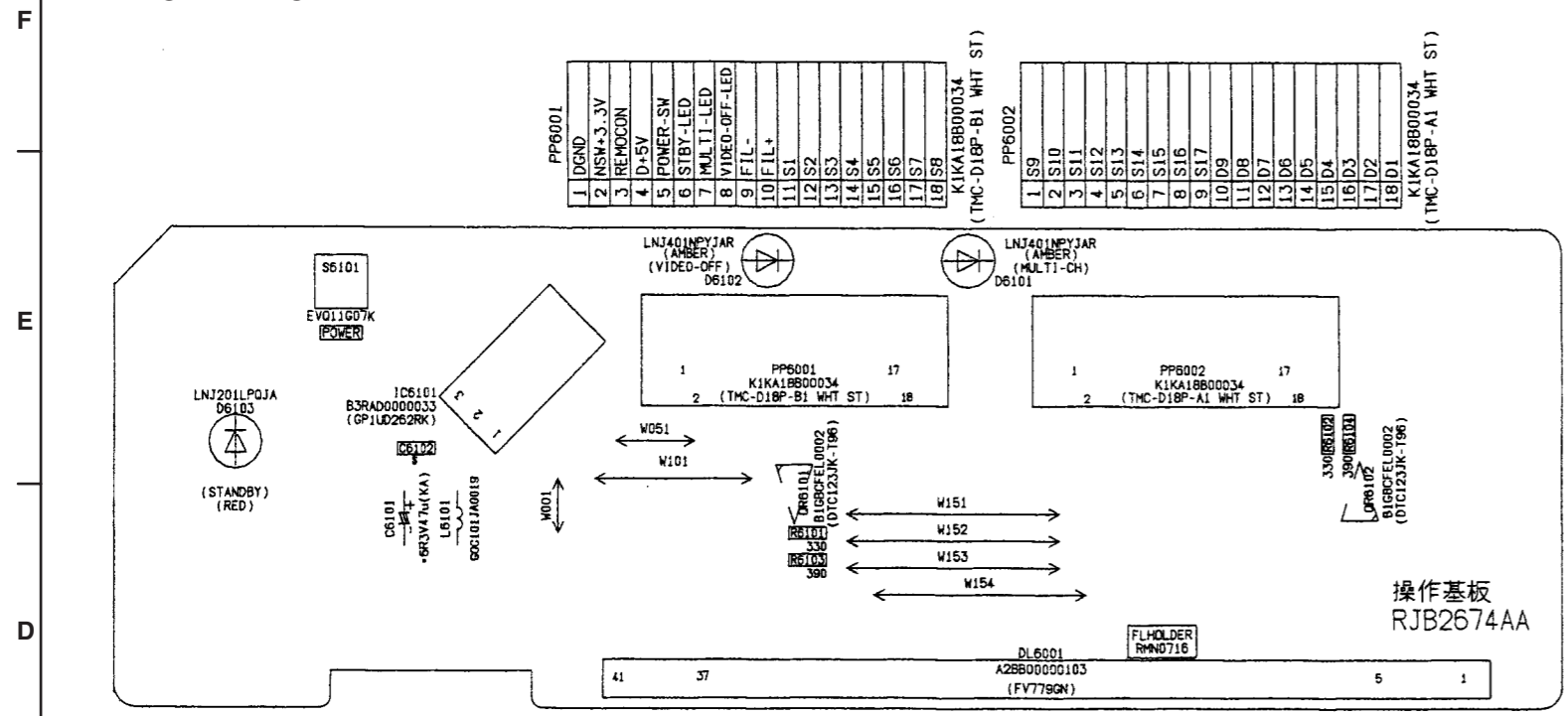
INTERMEDIATE P.C.B. 2/2 (FOIL SIDE)

IC2501	B-6	TC2525	C-8	TC5113	D-7	TP5103	A-6	TP5112	B-5	TP5121	D-6	TP5130	C-6
CP5101	C-7	TC5102	D-8	TC5114	D-6	TP5104	B-6	TP5113	A-6	TP5122	C-5	TP5131	C-5
CP5102	B-7	TC5103	D-8	TC5118	D-6	TP5105	A-6	TP5114	B-5	TP5123	C-6	TP5132	C-6
CP5103	C-7	TC5104	D-8	TC5119	D-6	TP5106	A-6	TP5115	B-6	TP5124	C-5	TP5133	B-5
CP5104	D-7	TC5106	D-8	TC5122	A-6	TP5107	A-6	TP5116	D-5	TP5125	C-6	TP5134	B-6
CP5105	D-8	TC5108	D-8	TC5125	A-6	TP5108	B-6	TP5117	C-5	TP5126	C-5	TP5135	B-5
TC2522	B-7	TC5110	D-7	TC5129	D-9	TP5109	B-6	TP5118	D-5	TP5127	C-6	TP5136	B-6
TC2523	B-8	TC5111	D-7	TP5101	A-6	TP5110	B-6	TP5119	D-5	TP5128	C-5	TP5137	D-5
TC2524	B-8	TC5112	D-7	TP5102	A-6	TP5111	B-6	TP5120	D-6	TP5129	C-6		

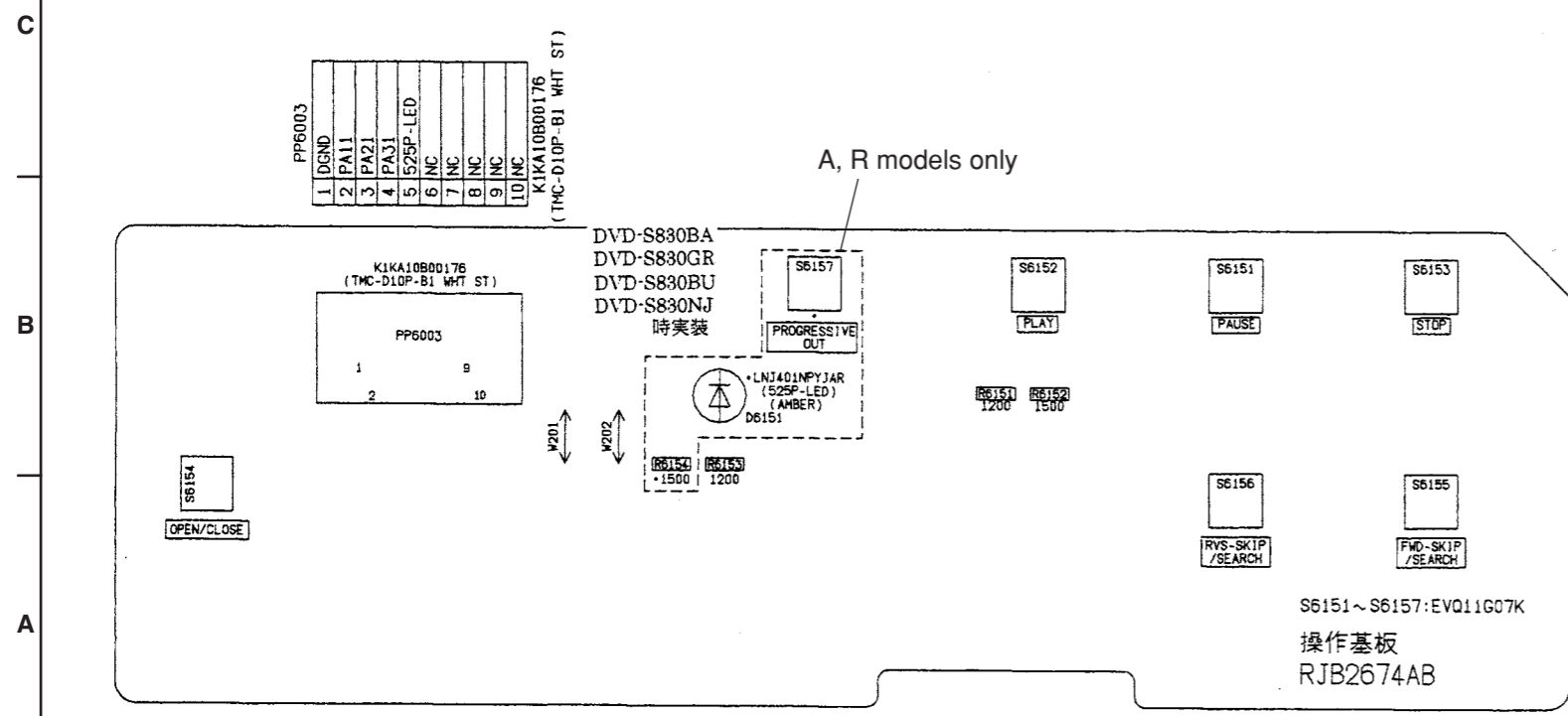


PRINTED CIRCUIT BOARD

FRONT 1 P.C.B.



FRONT 2 P.C.B.

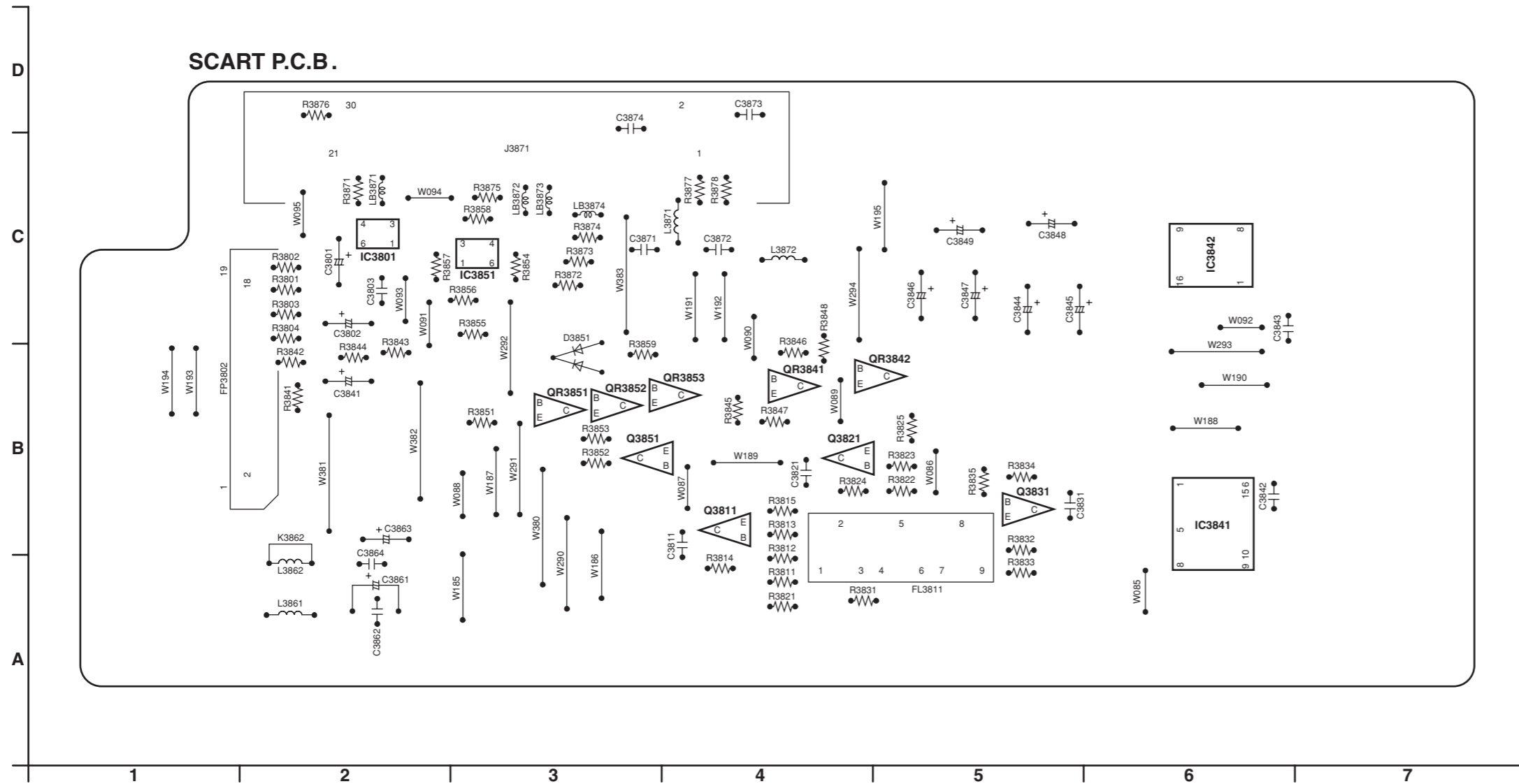




■ PRINTED CIRCUIT BOARD

SCART P.C.B.

- Q3811 B-4
- Q3821 B-4
- Q3831 B-5
- Q3851 B-3
- QR3841 B-4
- QR3842 B-4
- QR3851 B-3
- QR3852 B-3
- QR3853 B-4
- IC3801 C-2
- IC3841 B-6
- IC3842 C-6
- IC3851 C-3
- FP3802 B-2

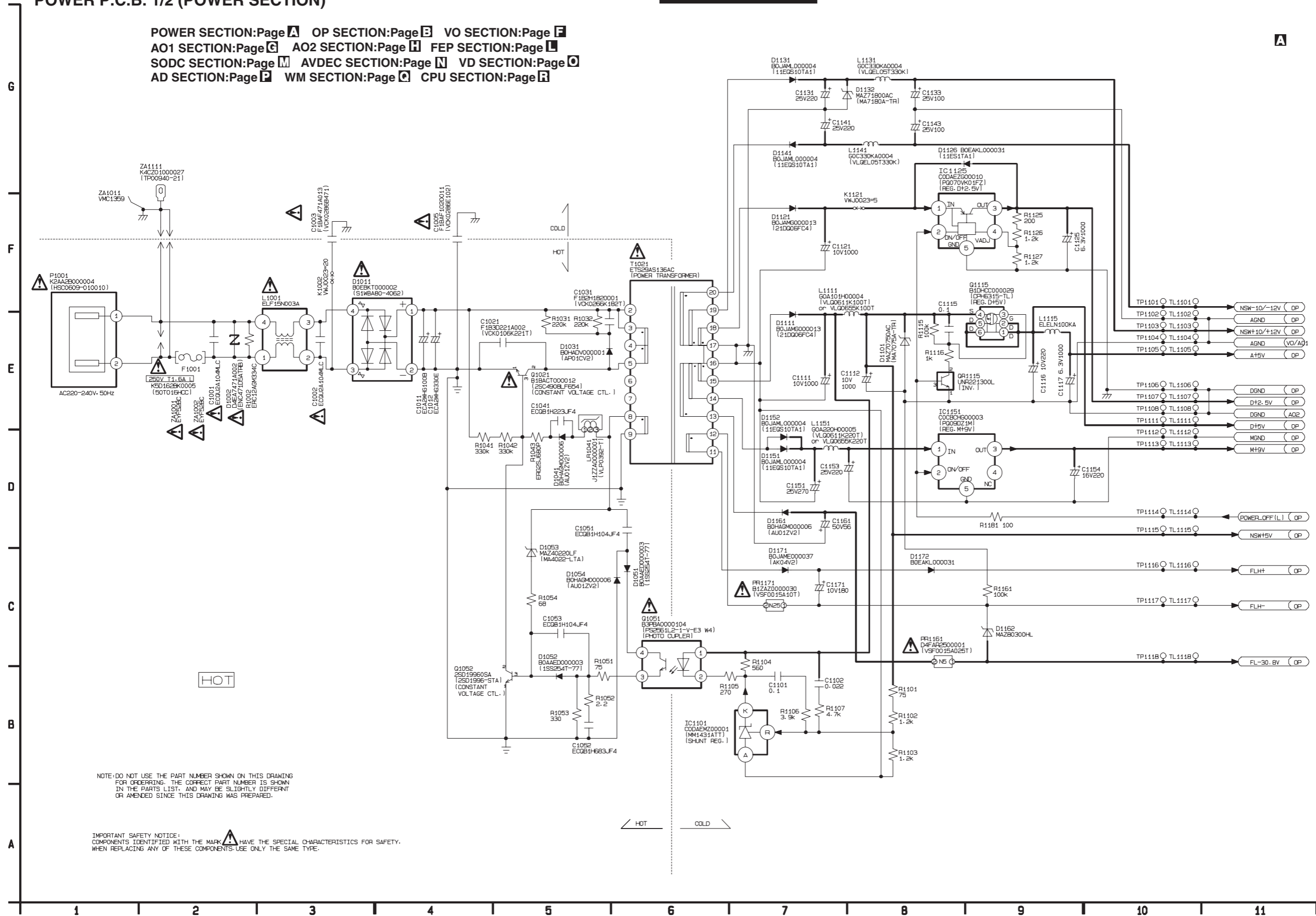


SCHEMATIC DIAGRAM

POWER P.C.B. 1/2 (POWER SECTION)

B, G models

POWER SECTION:Page **A** OP SECTION:Page **B** VO SECTION:Page **F**  
 AO1 SECTION:Page **G** AO2 SECTION:Page **H** FEP SECTION:Page **L**  
 SODC SECTION:Page **M** AVDEC SECTION:Page **N** VD SECTION:Page **O**  
 AD SECTION:Page **P** WM SECTION:Page **Q** CPU SECTION:Page **R**



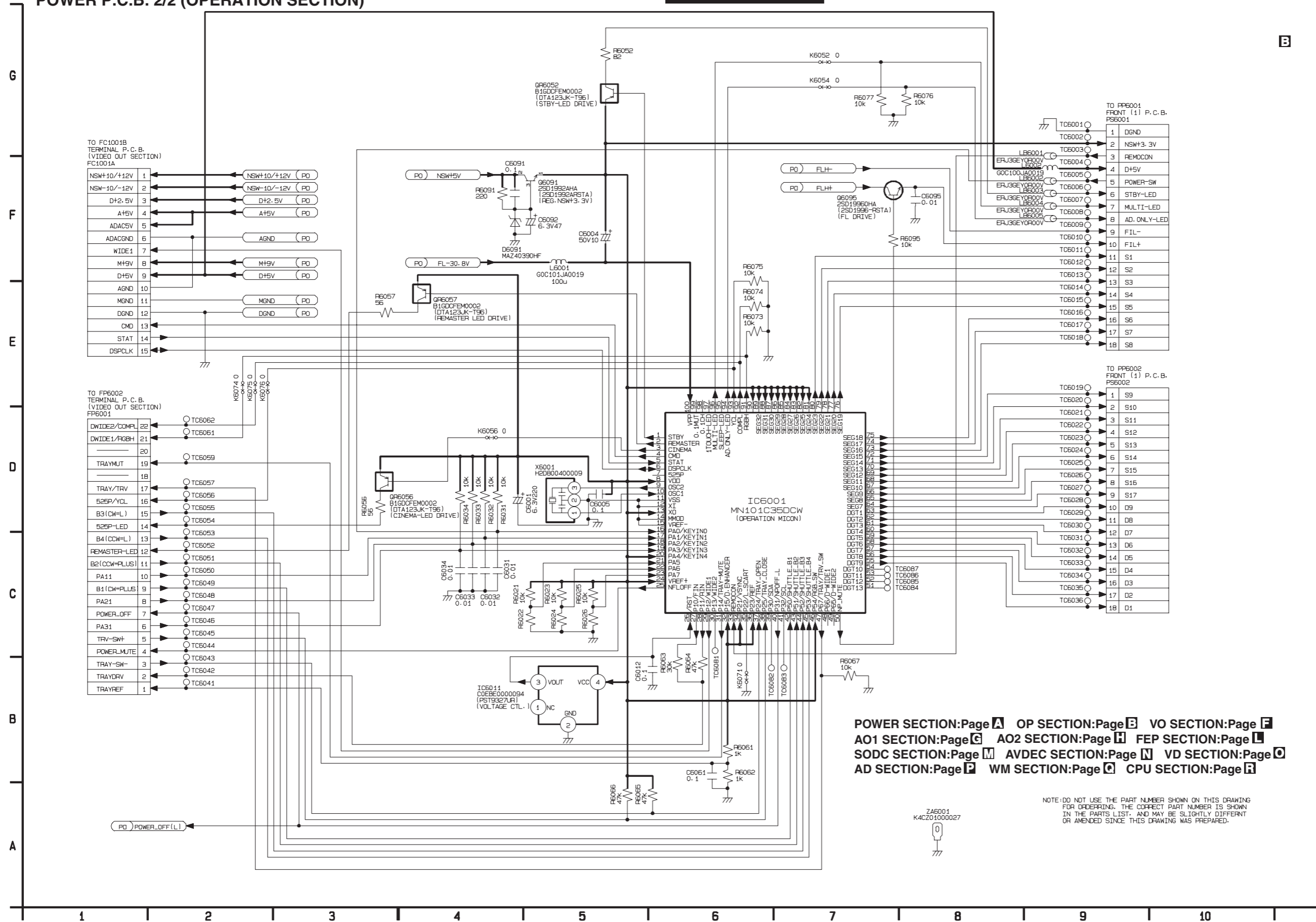
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST. AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

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

SCHEMATIC DIAGRAM

POWER P.C.B. 2/2 (OPERATION SECTION)

B, G models



POWER SECTION:Page A OP SECTION:Page B VO SECTION:Page C  
 AO1 SECTION:Page D AO2 SECTION:Page E FEP SECTION:Page F  
 SODC SECTION:Page G AVDEC SECTION:Page H VD SECTION:Page I  
 AD SECTION:Page J WM SECTION:Page K CPU SECTION:Page L

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



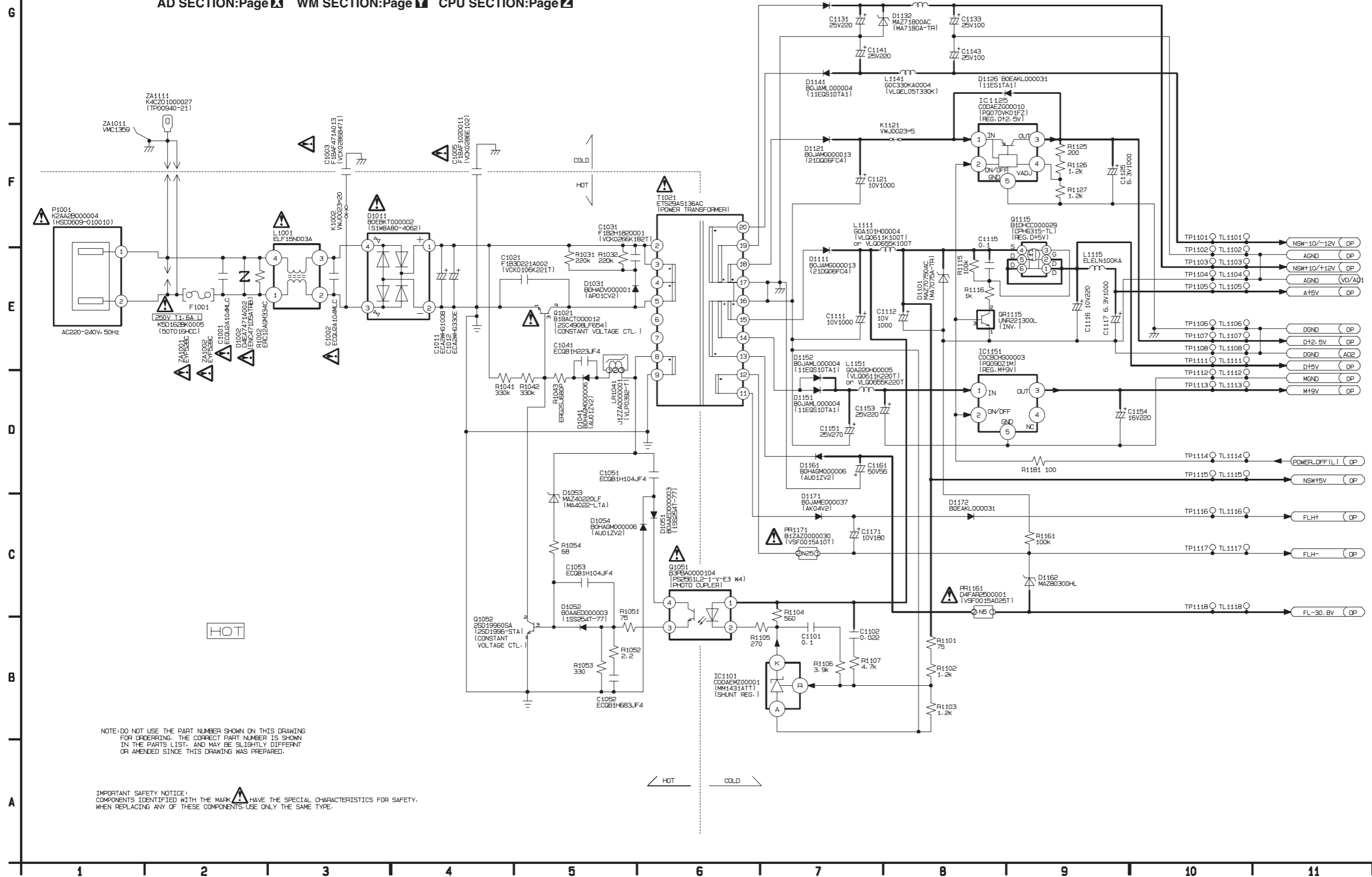
SCHEMATIC DIAGRAM

POWER P.C.B. 1/2 (POWER SECTION)

A model

POWER SECTION:Page C OP SECTION:Page E VO SECTION:Page I  
 AO1 SECTION:Page J AO2 SECTION:Page K FEP SECTION:Page S  
 SODC SECTION:Page T AVDEC SECTION:Page U VD SECTION:Page W  
 AD SECTION:Page X WM SECTION:Page Y CPU SECTION:Page Z

C



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

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

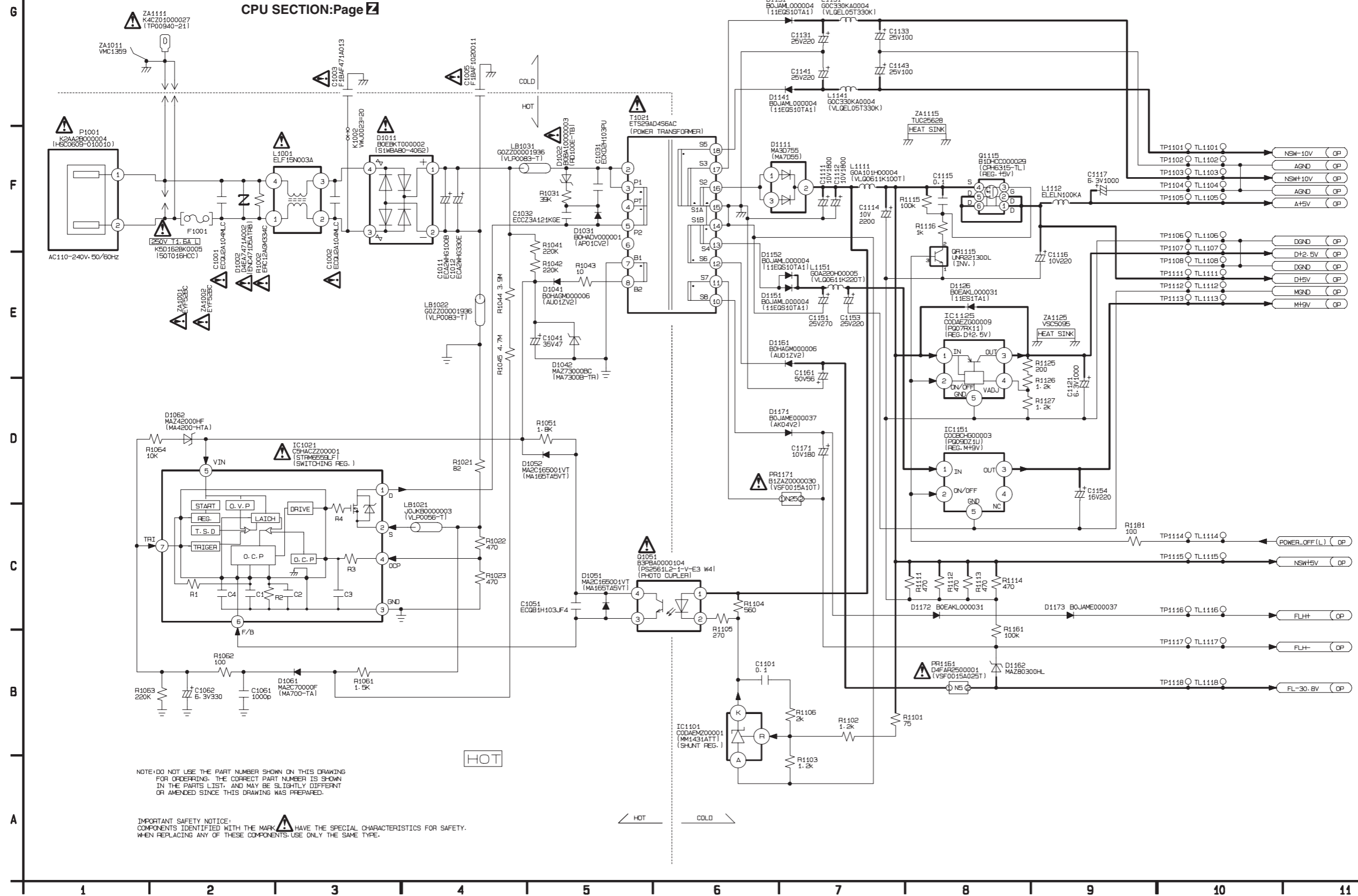
# SCHEMATIC DIAGRAM

## POWER P.C.B. 1/2 (POWER SECTION)

R model

POWER SECTION:Page **D** OP SECTION:Page **E** VO SECTION:Page **F**  
 AO1 SECTION:Page **G** AO2 SECTION:Page **H** FEP SECTION:Page **I**  
 SDC SECTION:Page **J** AVDEC SECTION:Page **K** PRG SECTION:Page **L**  
 VD SECTION:Page **M** AD SECTION:Page **N** WM SECTION:Page **O**  
 CPU SECTION:Page **P**

D



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

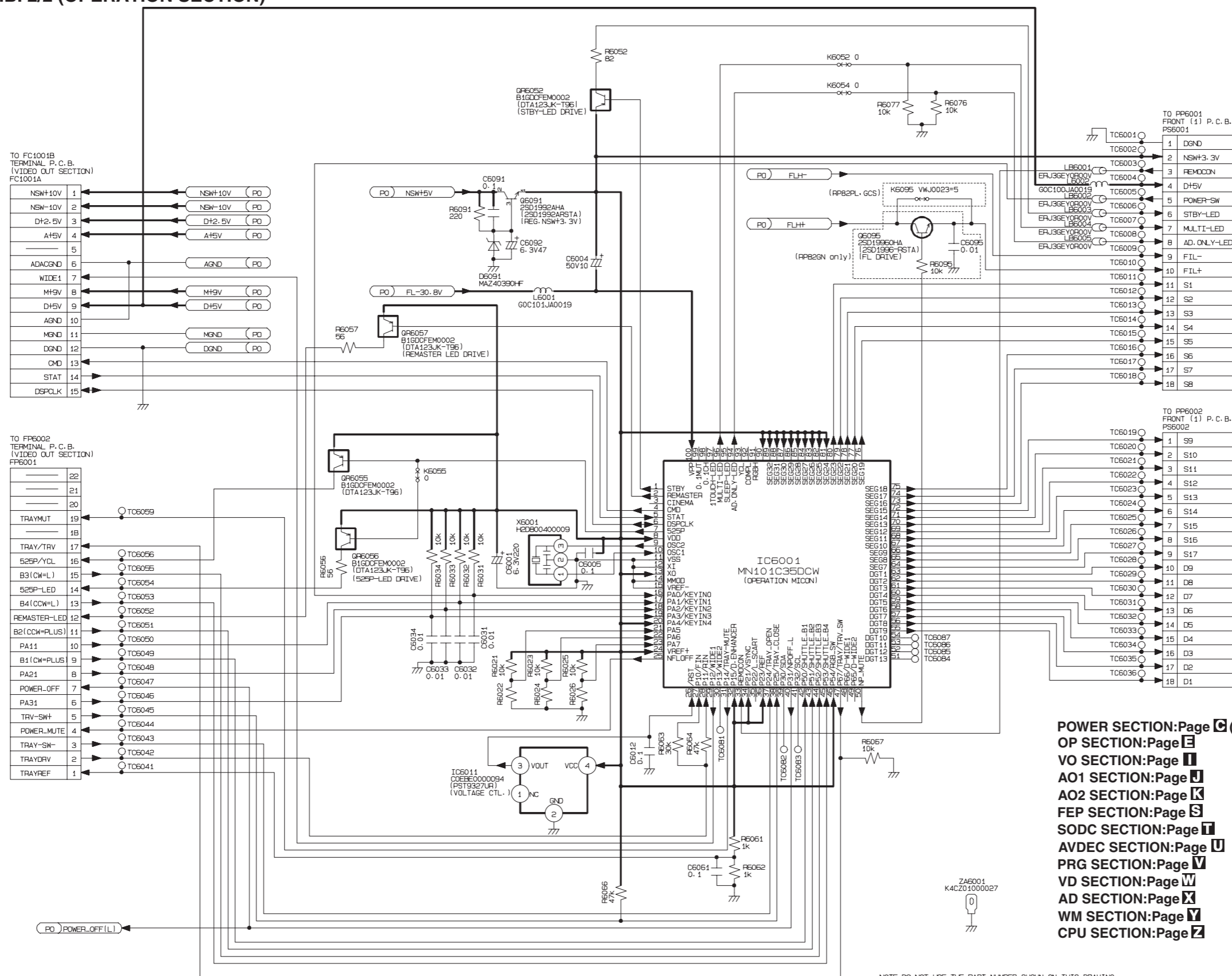
IMPORTANT SAFETY NOTICE: COMPONENTS IDENTIFIED WITH THE MARK HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.



SCHEMATIC DIAGRAM

POWER P.C.B. 2/2 (OPERATION SECTION)

A, R models



- POWER SECTION: Page **C** (A model) Page **D** (R model)
- OP SECTION: Page **E**
- VO SECTION: Page **F**
- AO1 SECTION: Page **G**
- AO2 SECTION: Page **H**
- FEP SECTION: Page **I**
- SODC SECTION: Page **J**
- AVDEC SECTION: Page **K**
- PRG SECTION: Page **L**
- VD SECTION: Page **M**
- AD SECTION: Page **N**
- WM SECTION: Page **O**
- CPU SECTION: Page **P**

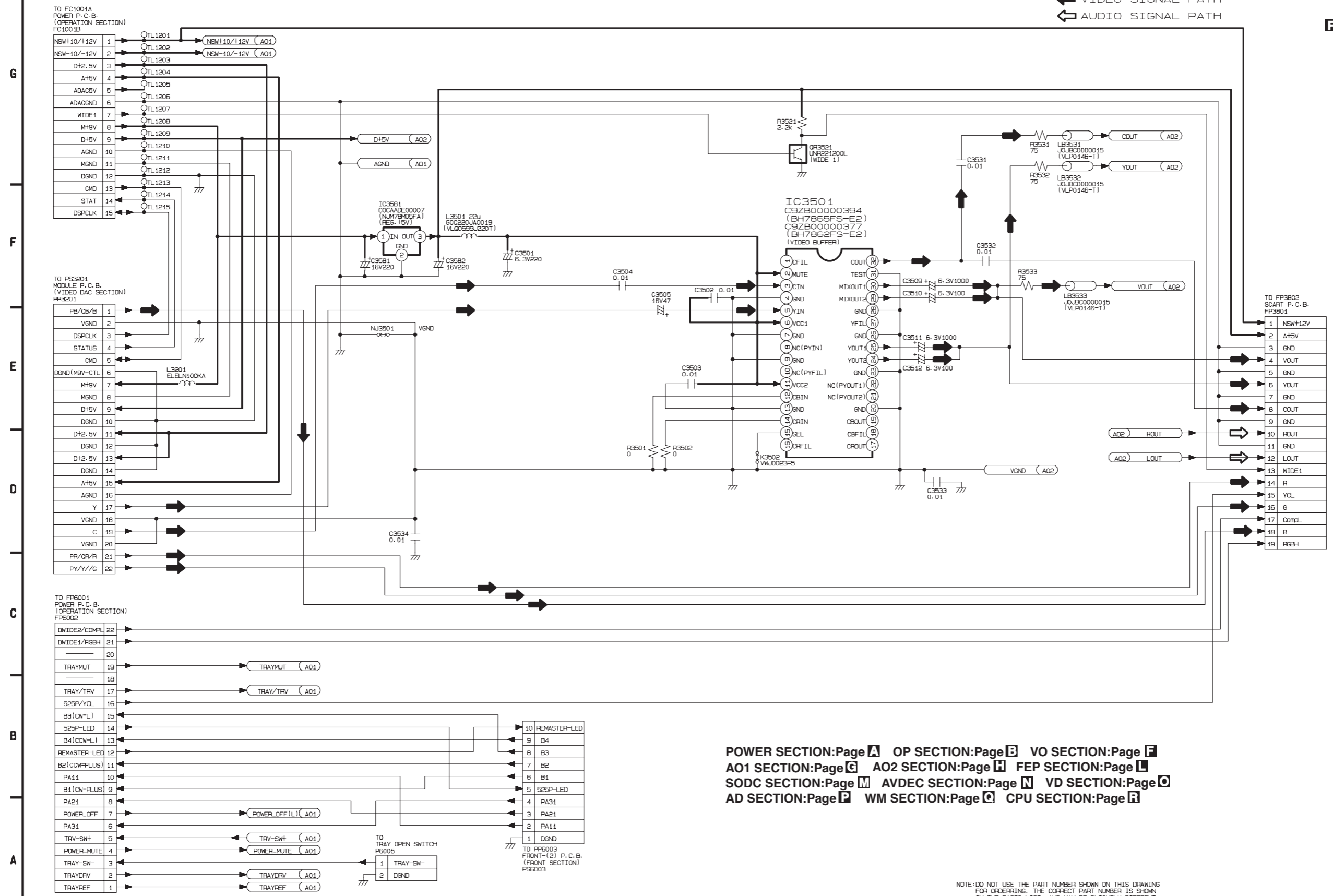
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

SCHEMATIC DIAGRAM

TERMINAL P.C.B. 1/3 (VIDEO OUT SECTION)

B, G models

← VIDEO SIGNAL PATH  
← AUDIO SIGNAL PATH



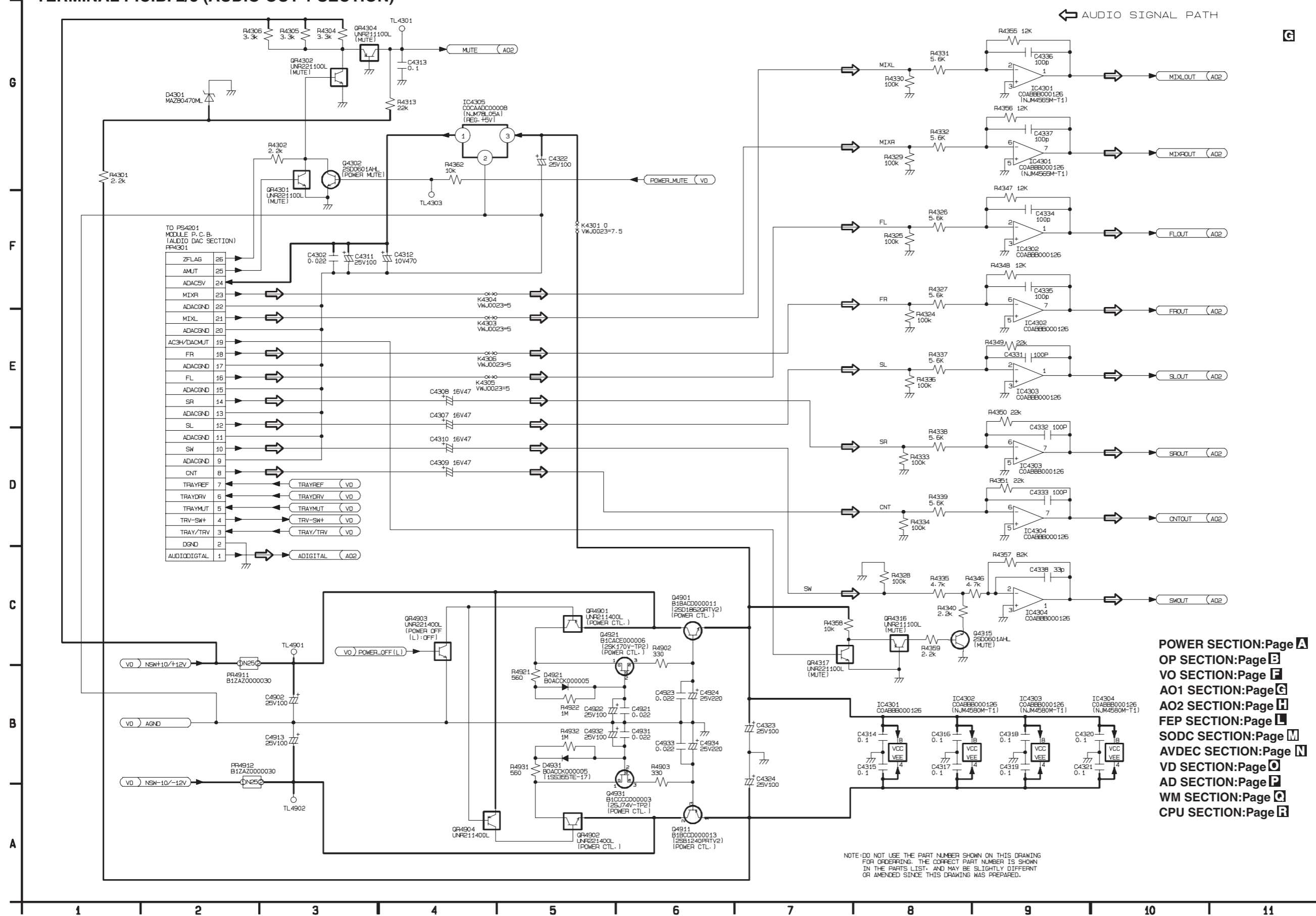
POWER SECTION:Page A OP SECTION:Page B VO SECTION:Page C  
 A01 SECTION:Page D A02 SECTION:Page E FEP SECTION:Page F  
 SODC SECTION:Page G AVDEC SECTION:Page H VD SECTION:Page I  
 AD SECTION:Page J WM SECTION:Page K CPU SECTION:Page L

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

SCHEMATIC DIAGRAM

TERMINAL P.C.B. 2/3 (AUDIO OUT 1 SECTION)

B, G models



← AUDIO SIGNAL PATH

G

- POWER SECTION:Page A
- OP SECTION:Page B
- VO SECTION:Page C
- AO1 SECTION:Page G
- AO2 SECTION:Page H
- FEP SECTION:Page I
- SODC SECTION:Page M
- AVDEC SECTION:Page N
- VD SECTION:Page Q
- AD SECTION:Page R
- WM SECTION:Page S
- CPU SECTION:Page 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 DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

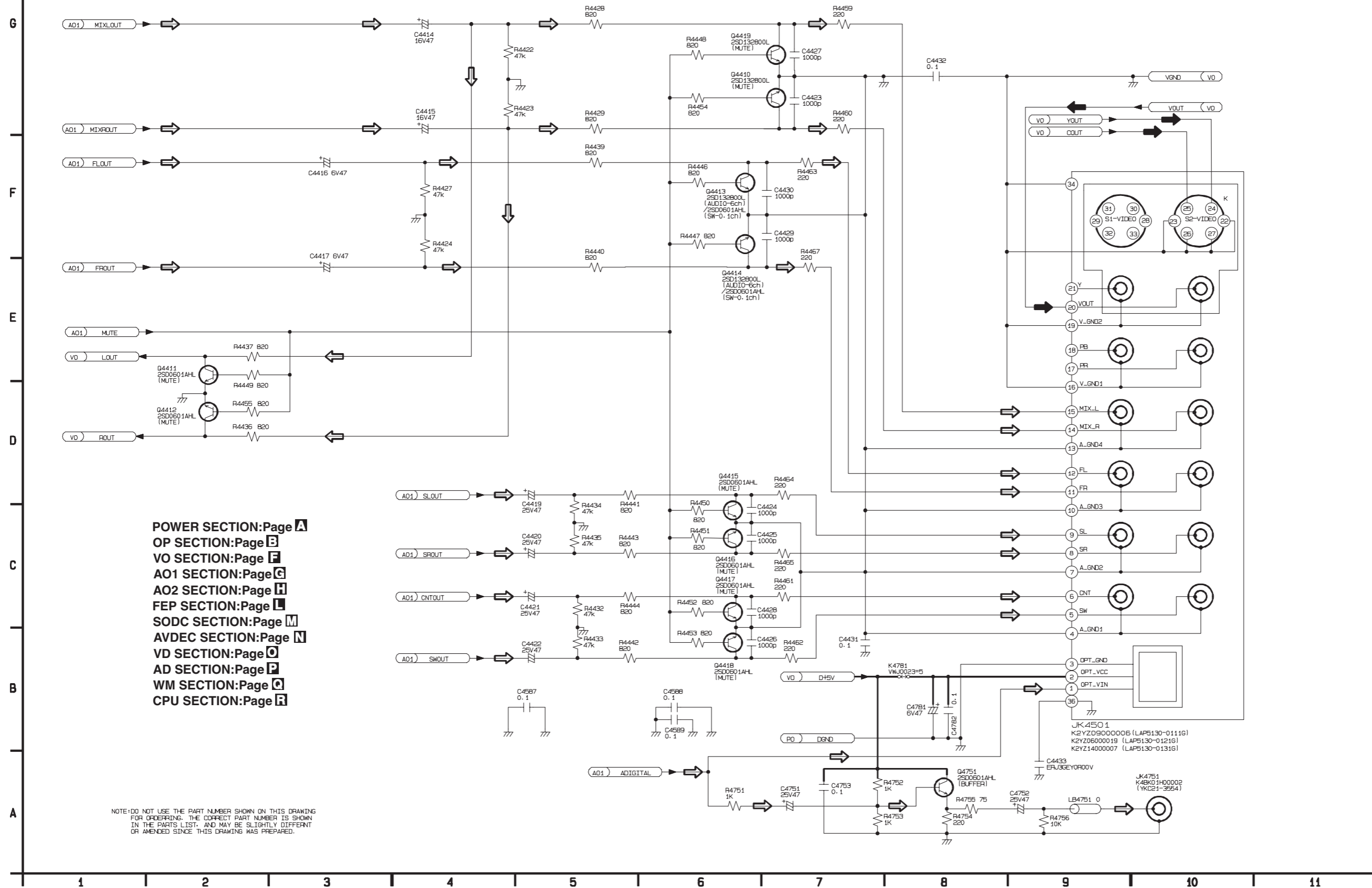


**SCHEMATIC DIAGRAM**

**TERMINAL P.C.B. 3/3 (AUDIO OUT 2 SECTION)**

**B, G models**

← VIDEO SIGNAL PATH  
 ⇌ AUDIO SIGNAL PATH



- POWER SECTION:Page A
- OP SECTION:Page B
- VO SECTION:Page C
- AO1 SECTION:Page D
- AO2 SECTION:Page E
- FEP SECTION:Page F
- SODC SECTION:Page G
- AVDEC SECTION:Page H
- VD SECTION:Page I
- AD SECTION:Page J
- WM SECTION:Page K
- CPU SECTION:Page L

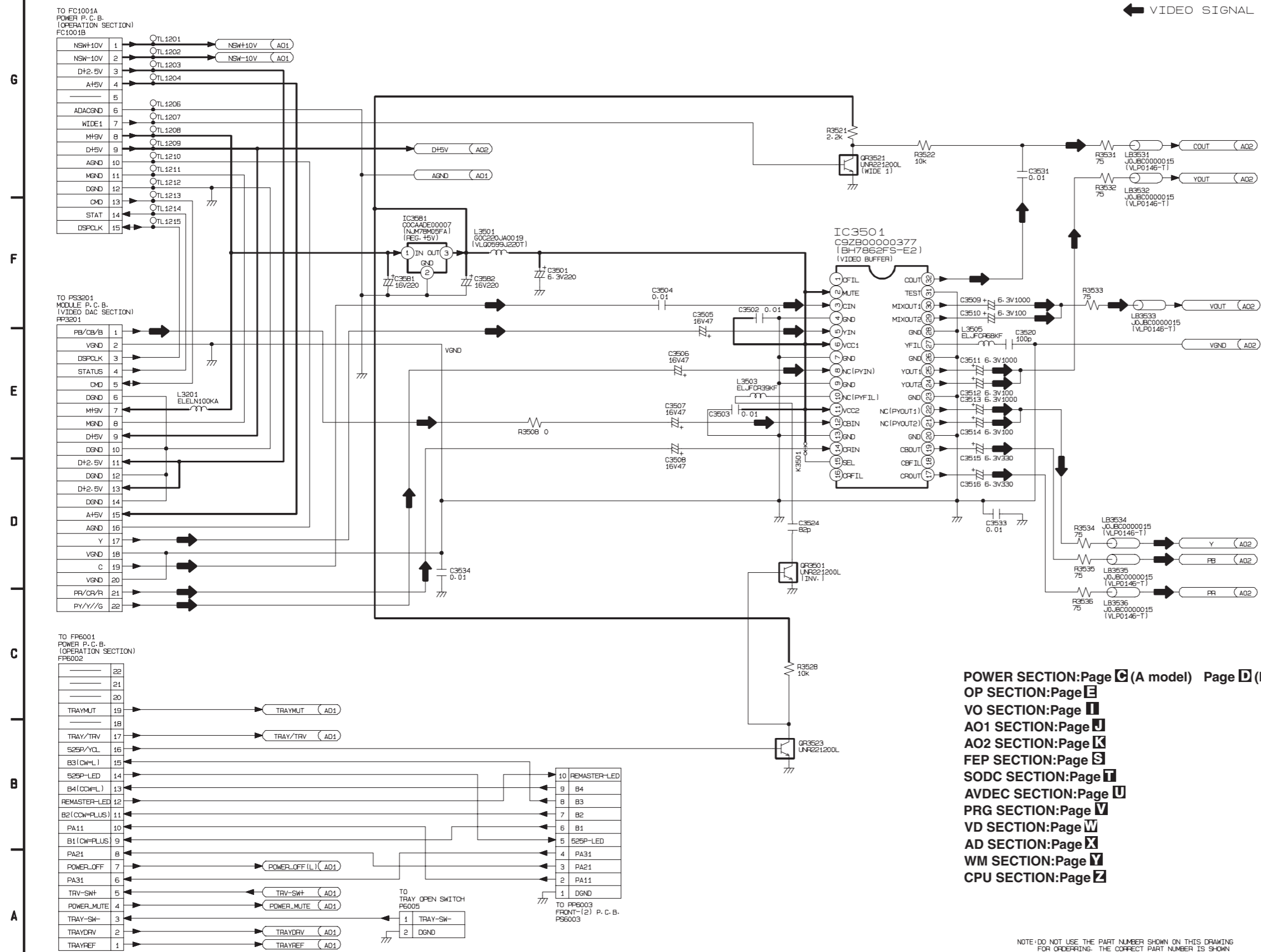
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

SCHEMATIC DIAGRAM

TERMINAL P.C.B. 1/3 (VIDEO OUT SECTION)

A, R models

← VIDEO SIGNAL PATH



- POWER SECTION: Page **C** (A model) Page **D** (R model)
- OP SECTION: Page **E**
- VO SECTION: Page **F**
- AO1 SECTION: Page **G**
- AO2 SECTION: Page **H**
- FEP SECTION: Page **I**
- SODC SECTION: Page **J**
- AVDEC SECTION: Page **K**
- PRG SECTION: Page **L**
- VD SECTION: Page **M**
- AD SECTION: Page **N**
- WM SECTION: Page **O**
- CPU SECTION: Page **P**

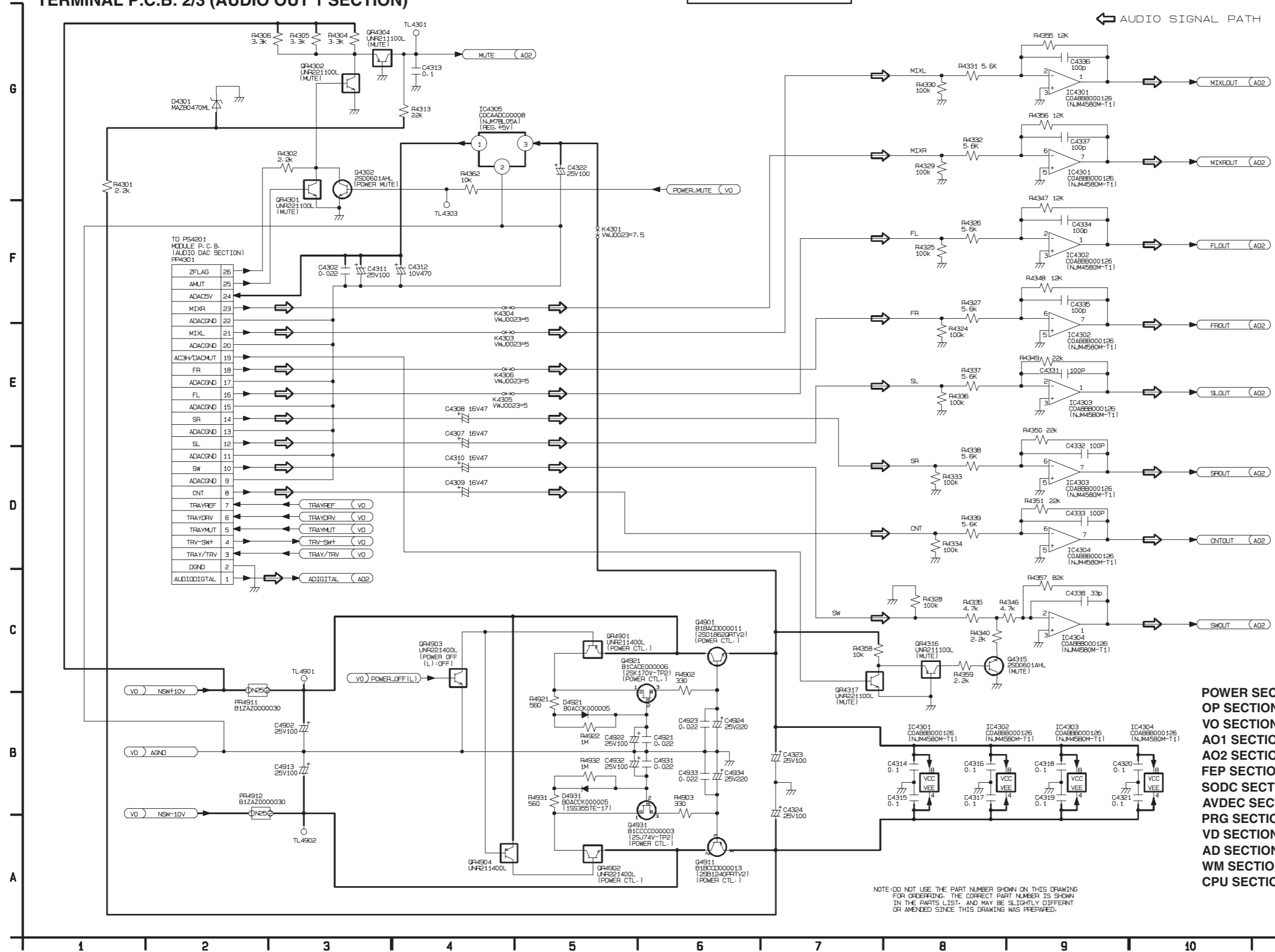
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

SCHEMATIC DIAGRAM

TERMINAL P.C.B. 2/3 (AUDIO OUT 1 SECTION)

A, R models

AUDIO SIGNAL PATH



- POWER SECTION: Page C (A model) Page D (R model)
- OP SECTION: Page E
- VO SECTION: Page F
- AO1 SECTION: Page G
- AO2 SECTION: Page H
- FEP SECTION: Page I
- SODC SECTION: Page J
- AVDEC SECTION: Page K
- PRG SECTION: Page L
- VD SECTION: Page M
- AD SECTION: Page N
- WM SECTION: Page O
- CPU SECTION: Page P

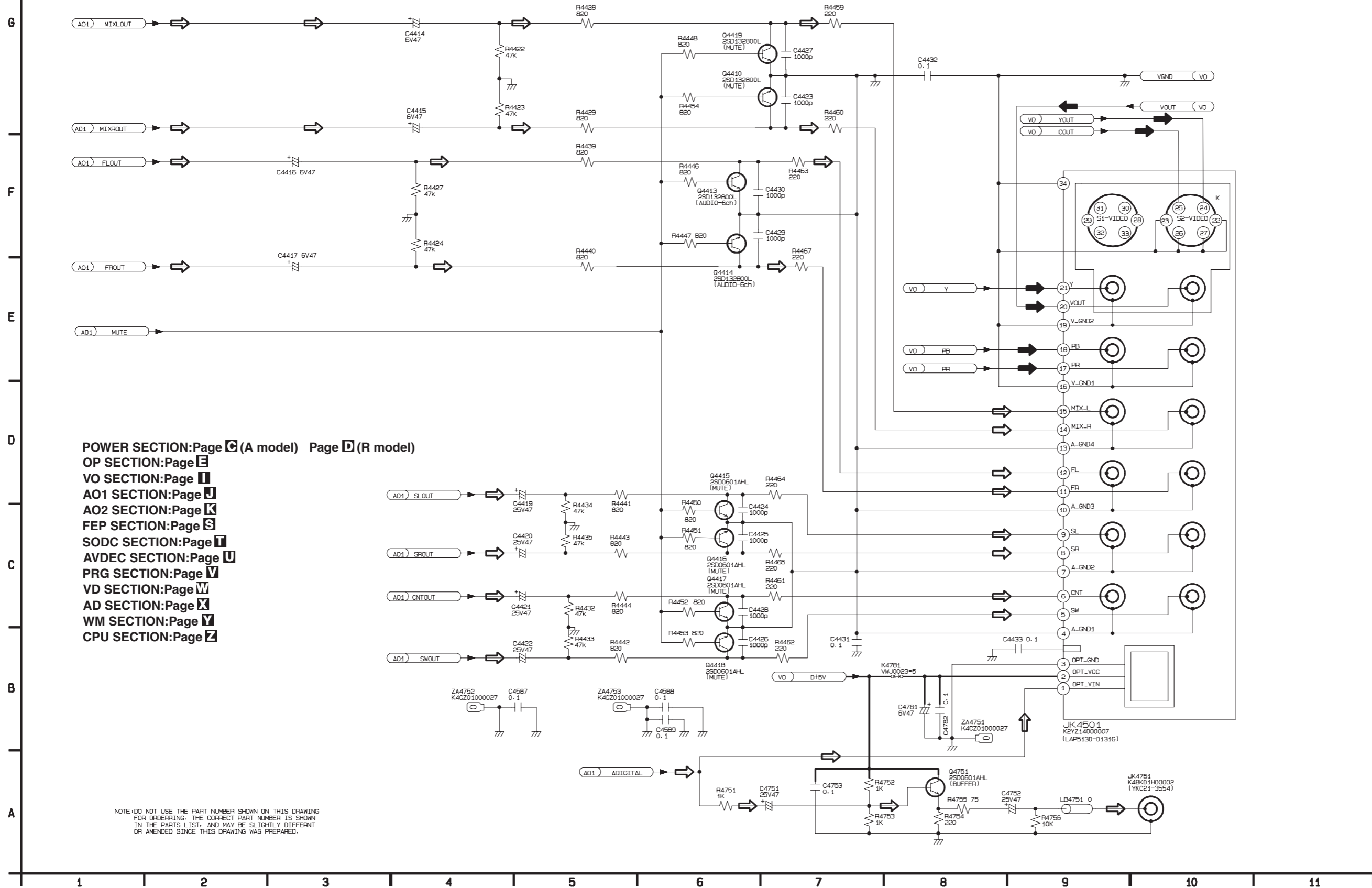
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

SCHEMATIC DIAGRAM

TERMINAL P.C.B. 3/3 (AUDIO OUT 2 SECTION)

A, R models

VIDEO SIGNAL PATH  
AUDIO SIGNAL PATH

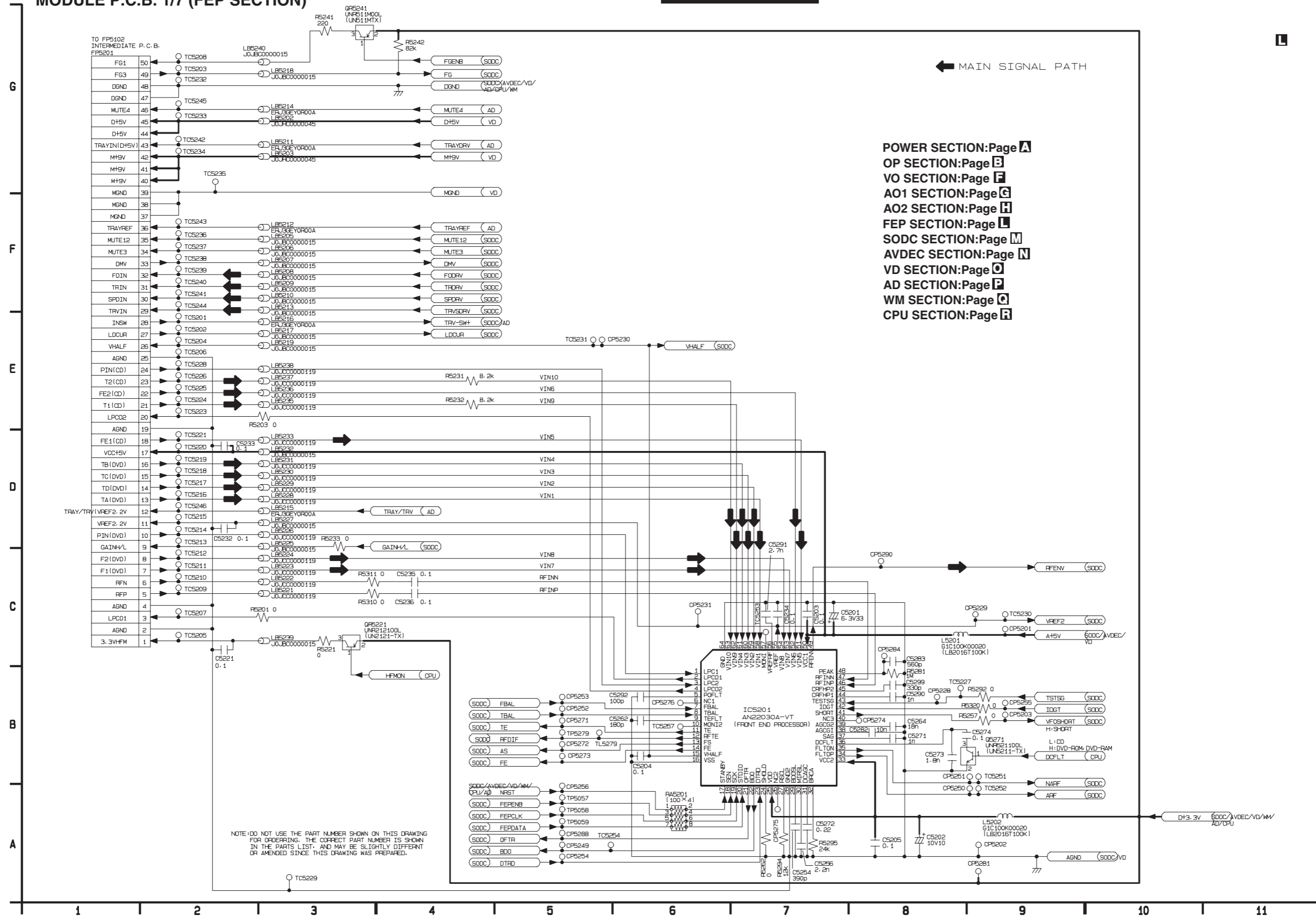


- POWER SECTION: Page C (A model) Page D (R model)
- OP SECTION: Page E
- VO SECTION: Page F
- AO1 SECTION: Page G
- AO2 SECTION: Page H
- FEP SECTION: Page I
- SODC SECTION: Page J
- AVDEC SECTION: Page K
- PRG SECTION: Page L
- VD SECTION: Page M
- AD SECTION: Page N
- WM SECTION: Page O
- CPU SECTION: Page P

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

# SCHEMATIC DIAGRAM MODULE P.C.B. 1/7 (FEP SECTION)

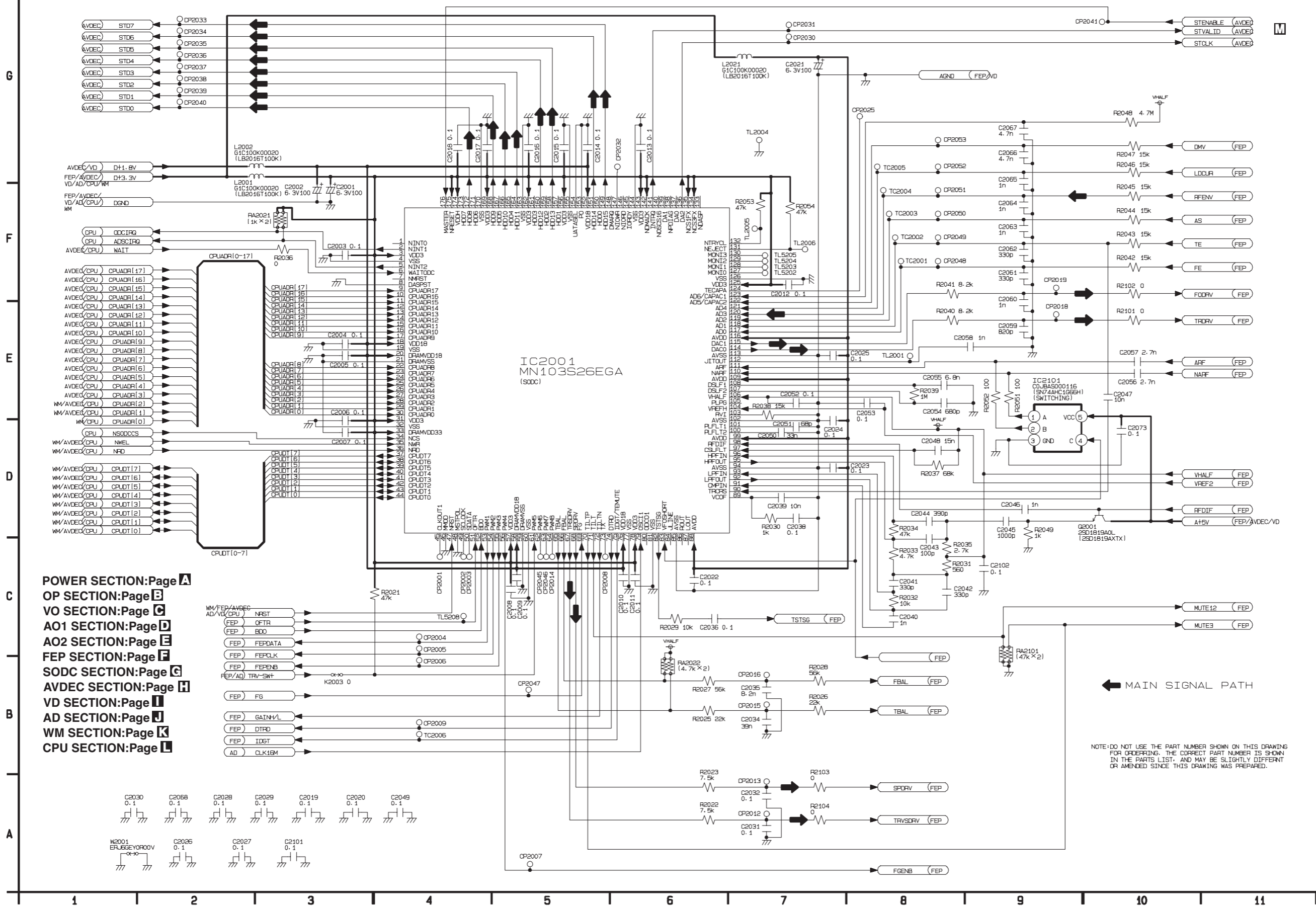
## B, G models





# SCHEMATIC DIAGRAM MODULE P.C.B. 2/7 (SODC SECTION)

## B, G models



- POWER SECTION:Page **A**
- OP SECTION:Page **B**
- VO SECTION:Page **C**
- AO1 SECTION:Page **D**
- AO2 SECTION:Page **E**
- FEP SECTION:Page **F**
- SODC SECTION:Page **G**
- AVDEC SECTION:Page **H**
- VD SECTION:Page **I**
- AD SECTION:Page **J**
- WM SECTION:Page **K**
- CPU SECTION:Page **L**

← MAIN SIGNAL PATH

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

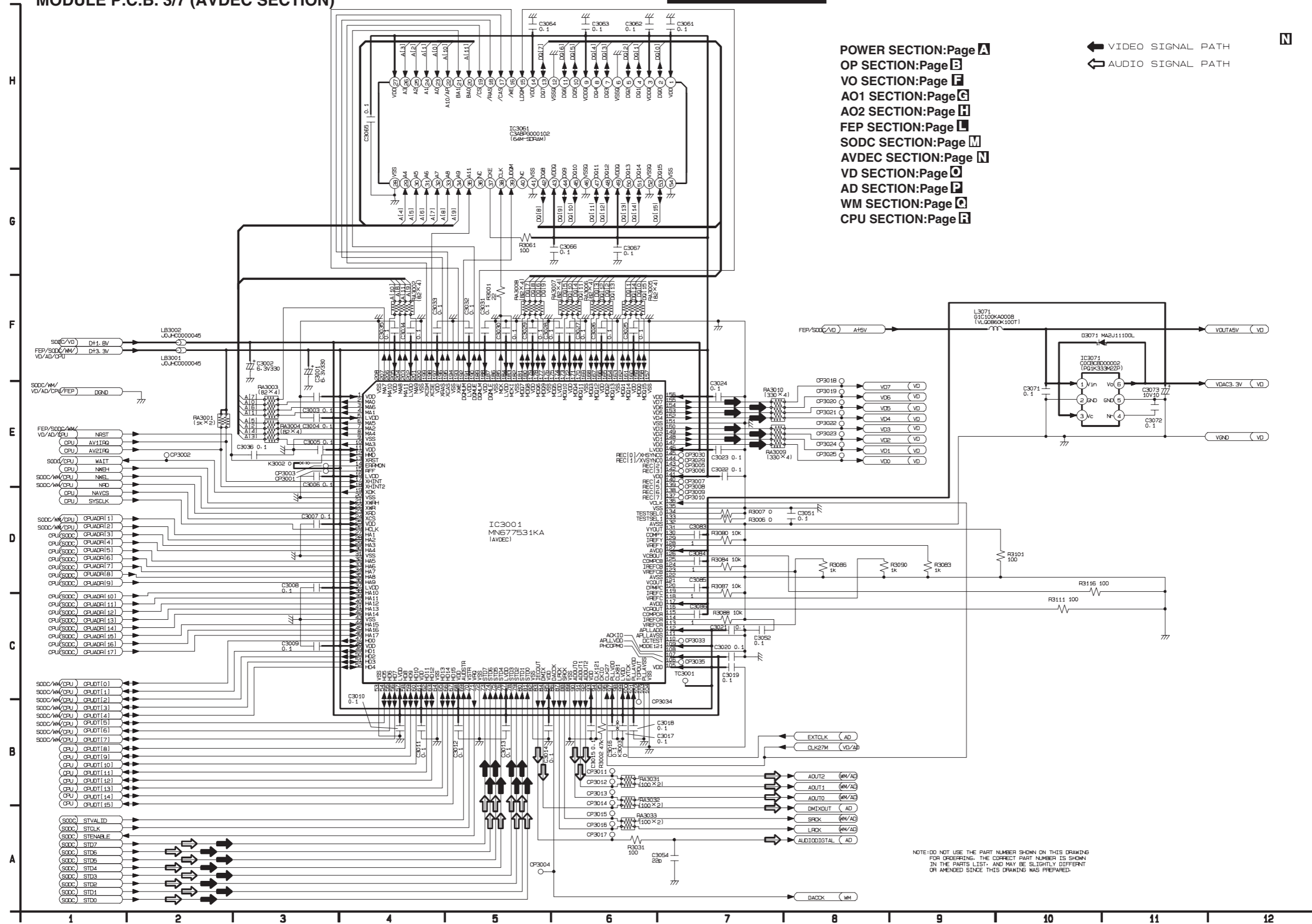
# SCHEMATIC DIAGRAM MODULE P.C.B. 3/7 (AVDEC SECTION)

## B, G models

- POWER SECTION:Page A
- OP SECTION:Page B
- VO SECTION:Page F
- AO1 SECTION:Page G
- AO2 SECTION:Page H
- FEP SECTION:Page L
- SODC SECTION:Page M
- AVDEC SECTION:Page N
- VD SECTION:Page O
- AD SECTION:Page P
- WM SECTION:Page Q
- CPU SECTION:Page R

← VIDEO SIGNAL PATH  
 ↶ AUDIO SIGNAL PATH

N



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

SCHEMATIC DIAGRAM

MODULE P.C.B. 4/7 (VIDEO-DAC SECTION)

B, G models

POWER SECTION:Page A OP SECTION:Page B VO SECTION:Page F  
 AO1 SECTION:Page G AO2 SECTION:Page H FEP SECTION:Page I  
 SODC SECTION:Page M AVDEC SECTION:Page N VD SECTION:Page O  
 AD SECTION:Page P WM SECTION:Page Q CPU SECTION:Page R

← VIDEO SIGNAL PATH



G

F

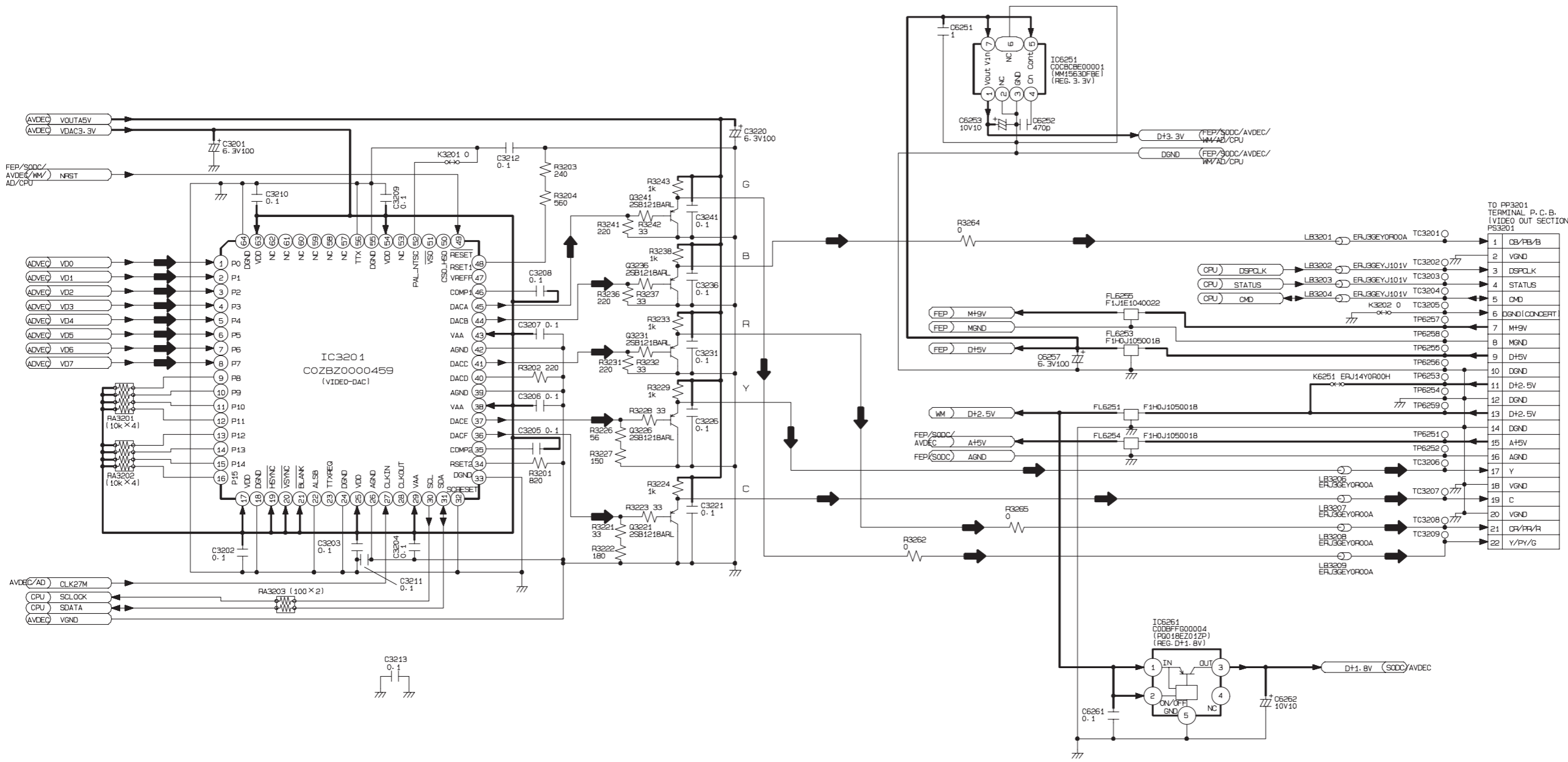
E

D

C

B

A



TO FP3201  
 TERMINAL P.C.B.  
 (VIDEO OUT SECTION)  
 PS3201

1	CB/PB/B
2	VGND
3	DSFCLK
4	STATUS
5	CMD
6	DGND/CONCERT
7	MH9V
8	MGND
9	DH5V
10	DGND
11	DH2.5V
12	DGND
13	DH2.5V
14	DGND
15	AH5V
16	AGND
17	Y
18	VGND
19	C
20	VGND
21	CR/PR/R
22	Y/PY/G

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



SCHEMATIC DIAGRAM

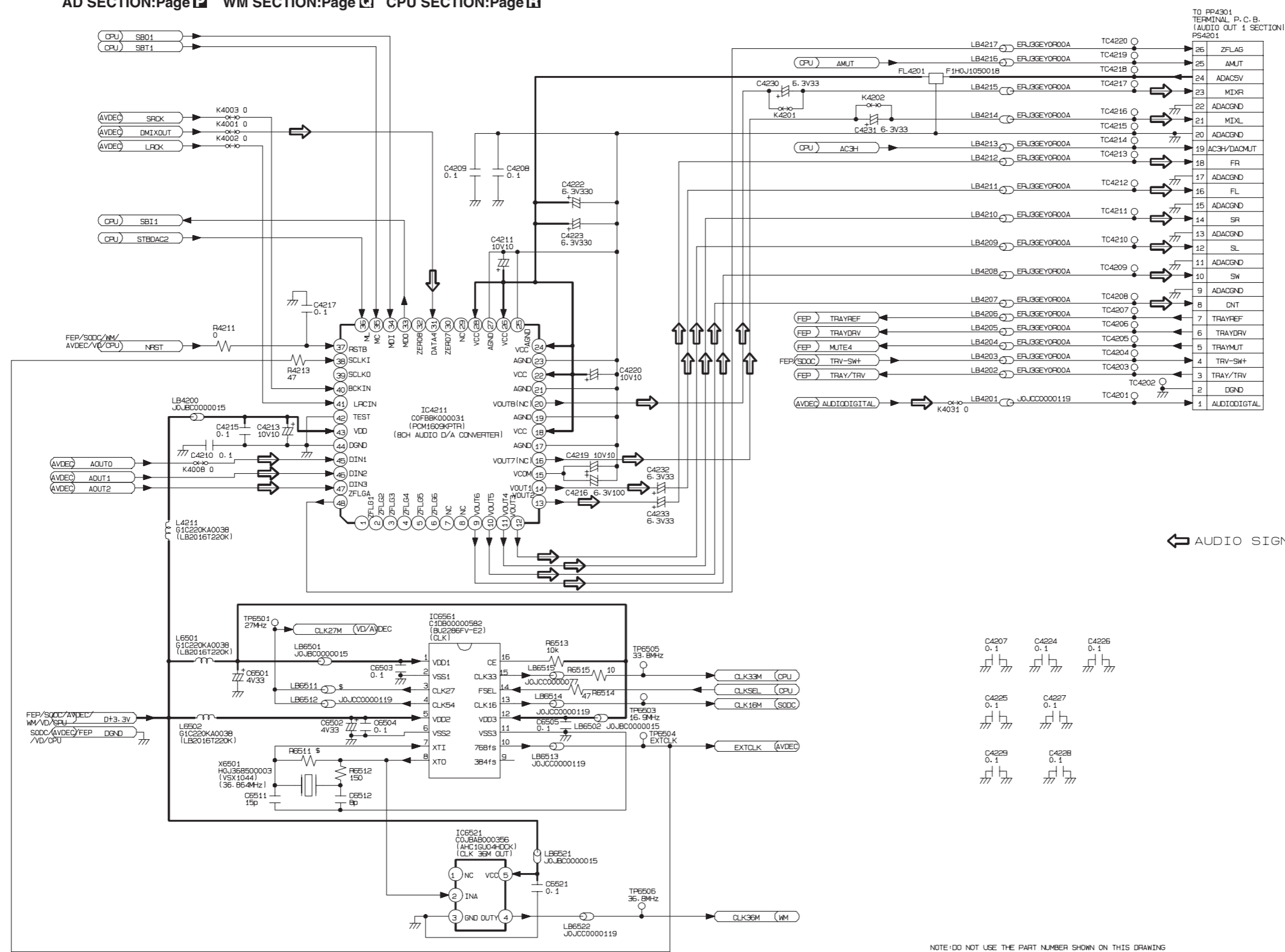
MODULE P.C.B. 5/7 (AUDIO DAC SECTION)

B, G models

POWER SECTION:Page A OP SECTION:Page B VO SECTION:Page C  
 AO1 SECTION:Page D AO2 SECTION:Page E FEP SECTION:Page F  
 SODC SECTION:Page G AVDEC SECTION:Page H VD SECTION:Page I  
 AD SECTION:Page J WM SECTION:Page K CPU SECTION:Page L

P

G  
F  
E  
D  
C  
B  
A



← AUDIO SIGNAL PATH

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

1 2 3 4 5 6 7 8 9 10 11

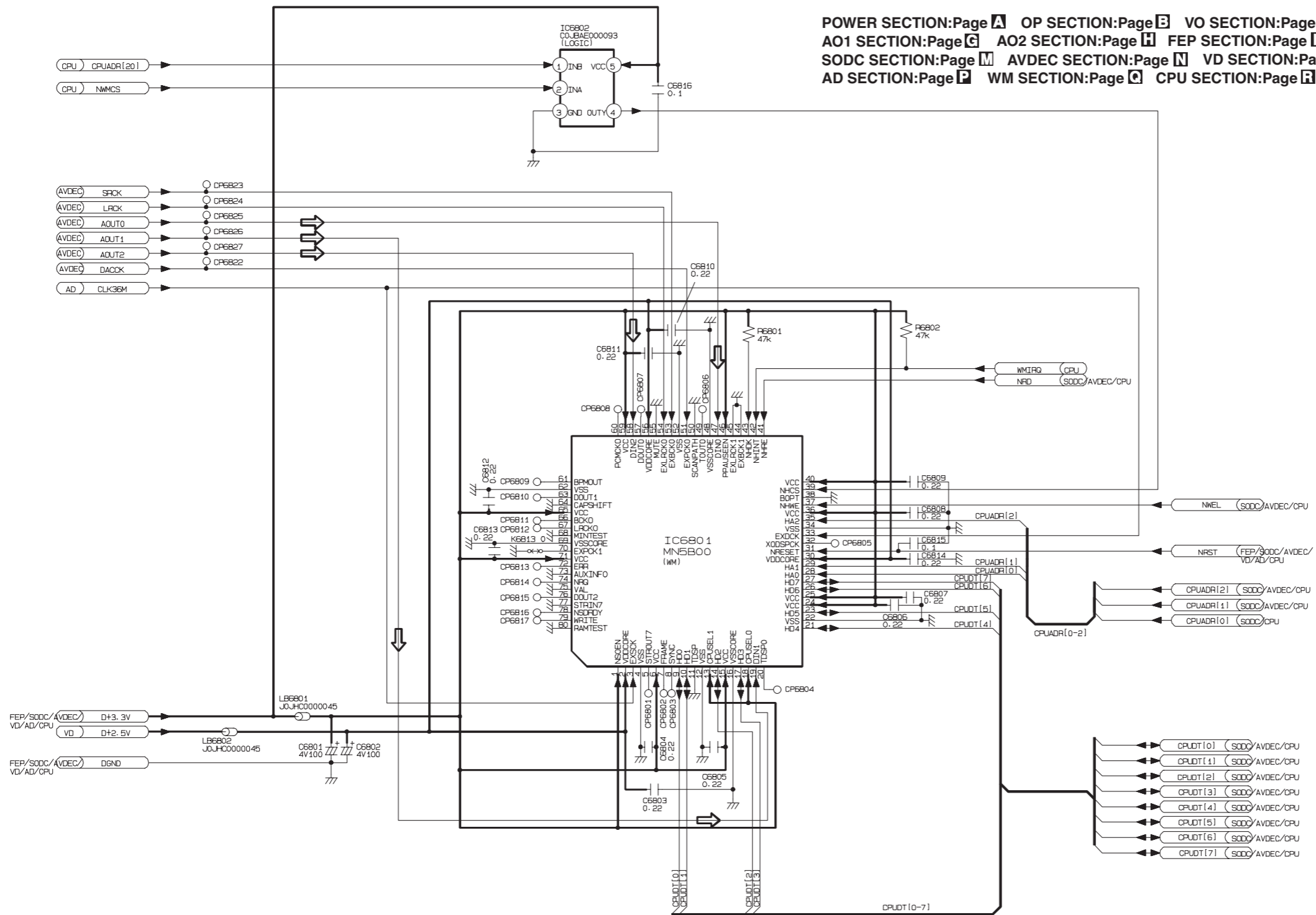
**SCHEMATIC DIAGRAM**  
MODULE P.C.B. 6/7 (VM SECTION)

**B, G models**

← AUDIO SIGNAL PATH



POWER SECTION:Page **A** OP SECTION:Page **B** VO SECTION:Page **C**  
AO1 SECTION:Page **D** AO2 SECTION:Page **E** FEP SECTION:Page **F**  
SODC SECTION:Page **G** AVDEC SECTION:Page **H** VD SECTION:Page **I**  
AD SECTION:Page **J** WM SECTION:Page **K** CPU SECTION:Page **L**



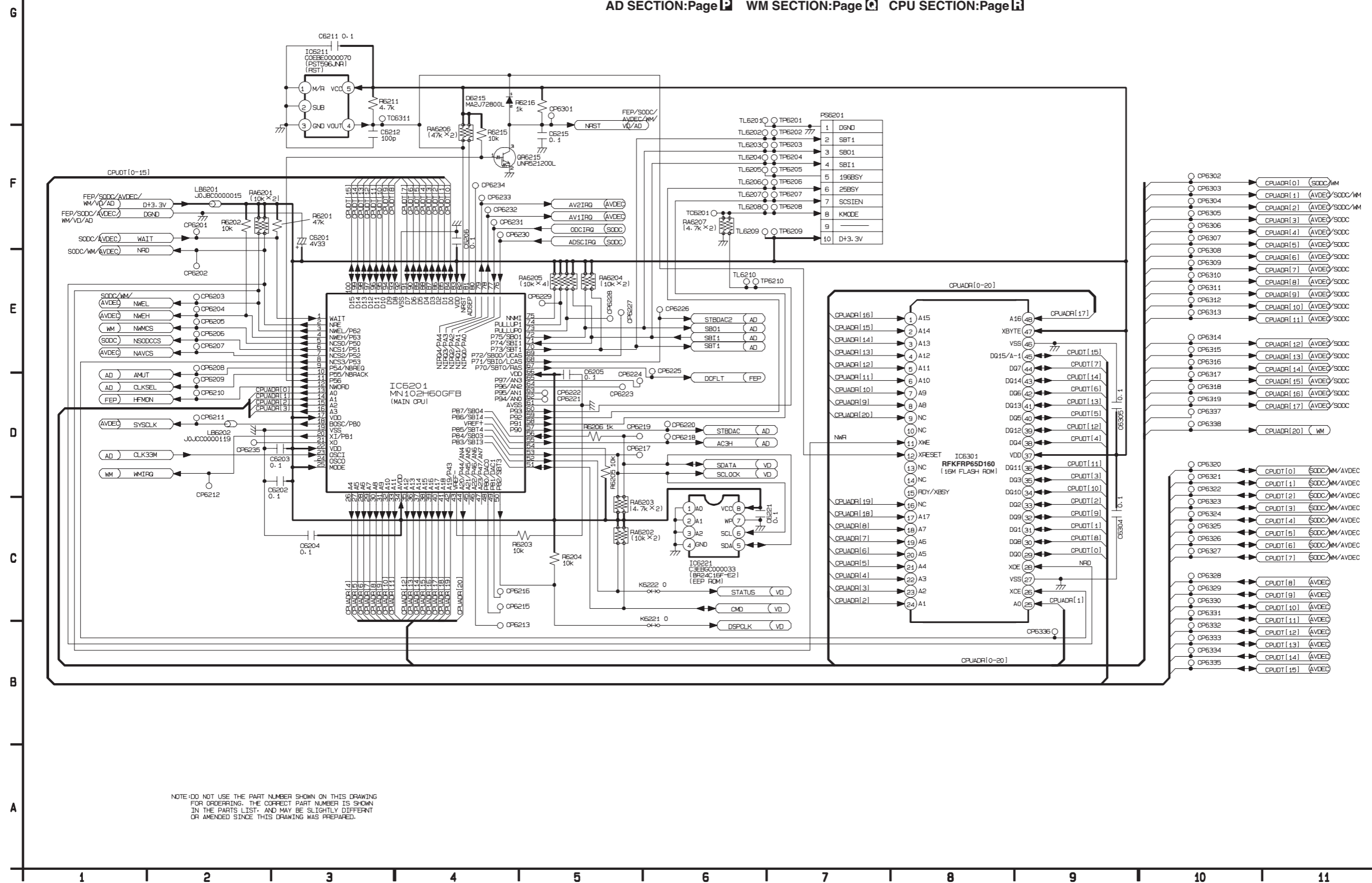
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

# SCHEMATIC DIAGRAM MODULE P.C.B. 7/7 (CPU SECTION)

## B, G models

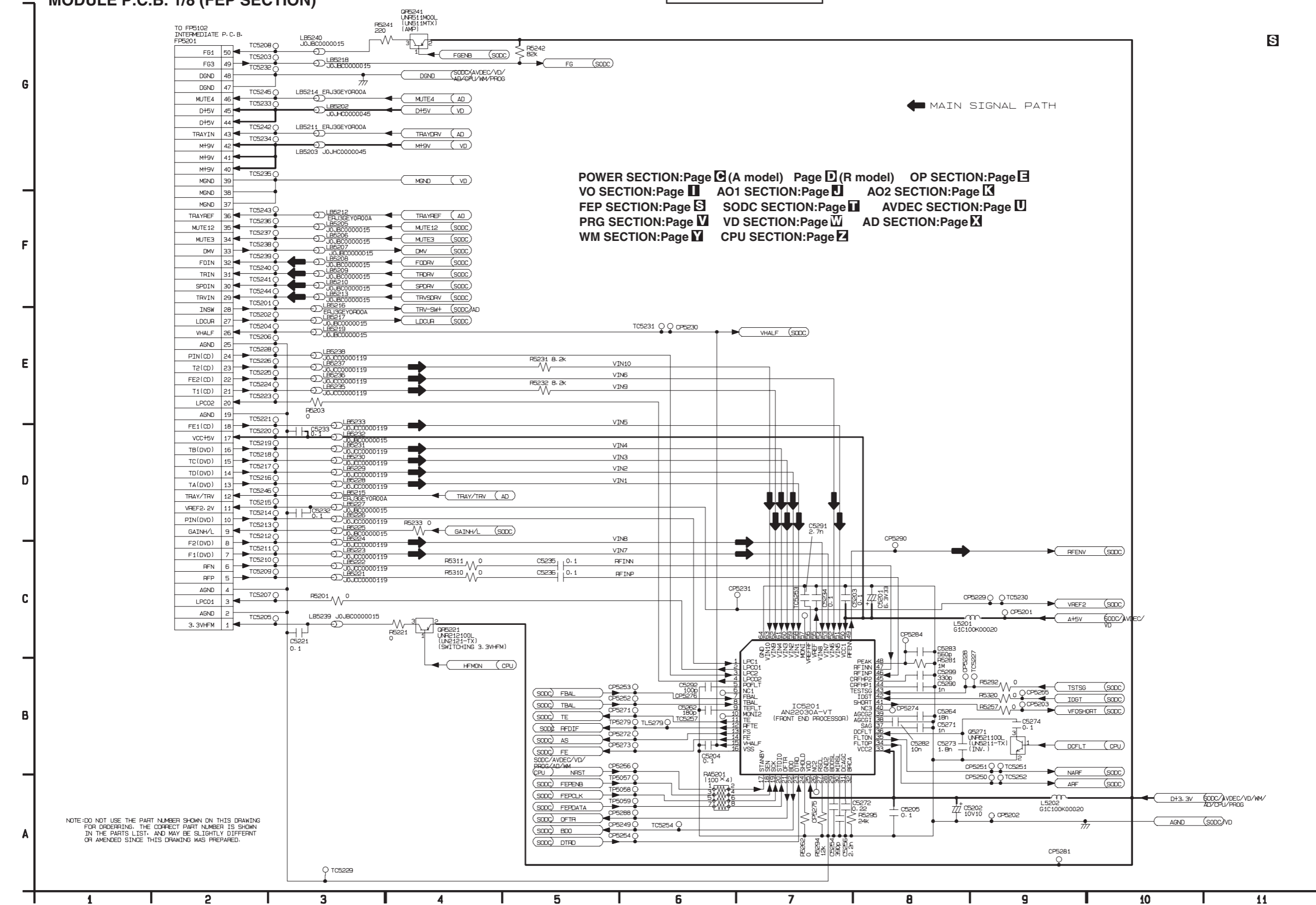
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 AO1 SECTION:Page **D** AO2 SECTION:Page **E** FEP SECTION:Page **F**  
 SODC SECTION:Page **G** AVDEC SECTION:Page **H** VD SECTION:Page **I**  
 AD SECTION:Page **J** WM SECTION:Page **K** CPU SECTION:Page **L**

**R**



# SCHEMATIC DIAGRAM MODULE P.C.B. 1/8 (FEP SECTION)

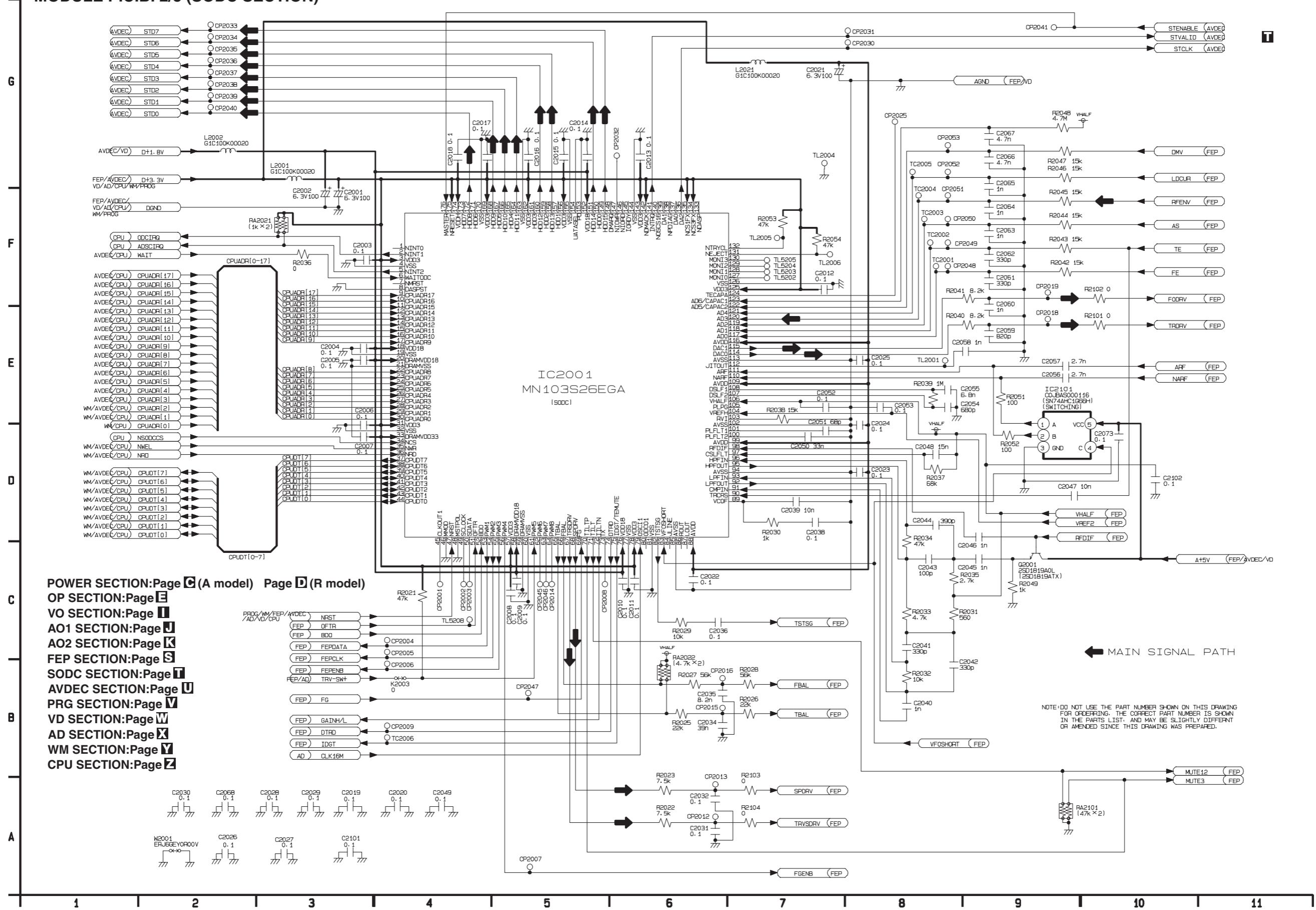
## A, R models



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

# SCHEMATIC DIAGRAM MODULE P.C.B. 2/8 (SODC SECTION)

## A, R models



- POWER SECTION: Page **G** (A model) Page **D** (R model)
- OP SECTION: Page **E**
- VO SECTION: Page **I**
- AO1 SECTION: Page **J**
- AO2 SECTION: Page **K**
- FEP SECTION: Page **S**
- SODC SECTION: Page **T**
- AVDEC SECTION: Page **U**
- PRG SECTION: Page **V**
- VD SECTION: Page **W**
- AD SECTION: Page **X**
- WM SECTION: Page **Y**
- CPU SECTION: Page **Z**



# SCHEMATIC DIAGRAM

## MODULE P.C.B. 3/8 (AVDEC SECTION)

A, R models

POWER SECTION: Page **C** (A model) Page **D** (R model)

OP SECTION: Page **E**

VO SECTION: Page **F**

AO1 SECTION: Page **G**

AO2 SECTION: Page **H**

FEP SECTION: Page **I**

SODC SECTION: Page **J**

AVDEC SECTION: Page **K**

PRG SECTION: Page **L**

VD SECTION: Page **M**

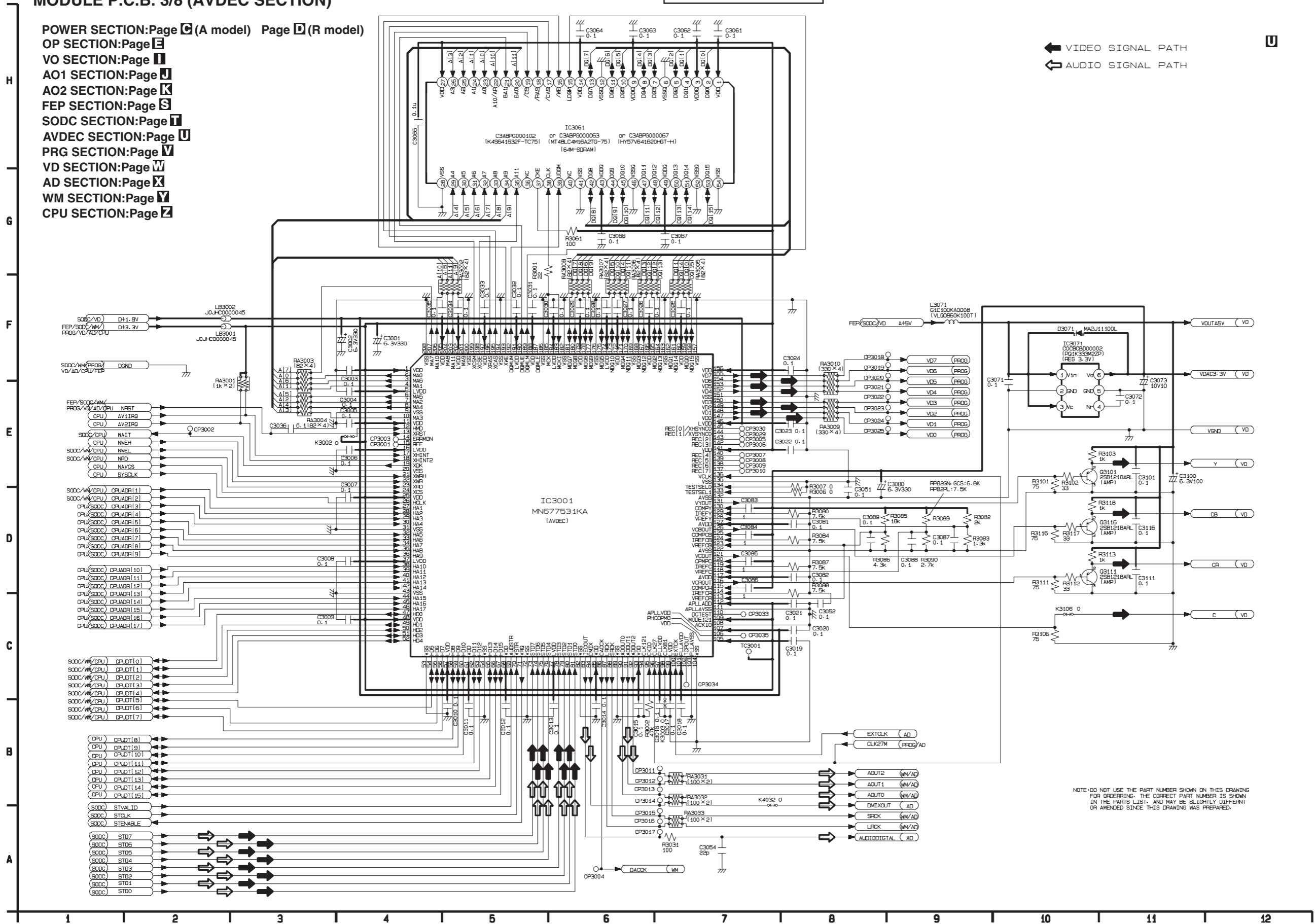
AD SECTION: Page **N**

WM SECTION: Page **O**

CPU SECTION: Page **P**

← VIDEO SIGNAL PATH  
← AUDIO SIGNAL PATH

U



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

# SCHEMATIC DIAGRAM

## MODULE P.C.B. 4/8 (PROGRESSIVE SECTION)

**A, R models**

POWER SECTION: Page **C** (A model) Page **D** (R model) OP SECTION: Page **E**  
 VO SECTION: Page **F** AO1 SECTION: Page **G** AO2 SECTION: Page **H**  
 FEP SECTION: Page **I** SODC SECTION: Page **J** AVDEC SECTION: Page **K**  
 PRG SECTION: Page **L** VD SECTION: Page **M** AD SECTION: Page **N**  
 WM SECTION: Page **O** CPU SECTION: Page **P**

← VIDEO SIGNAL PATH →

G

F

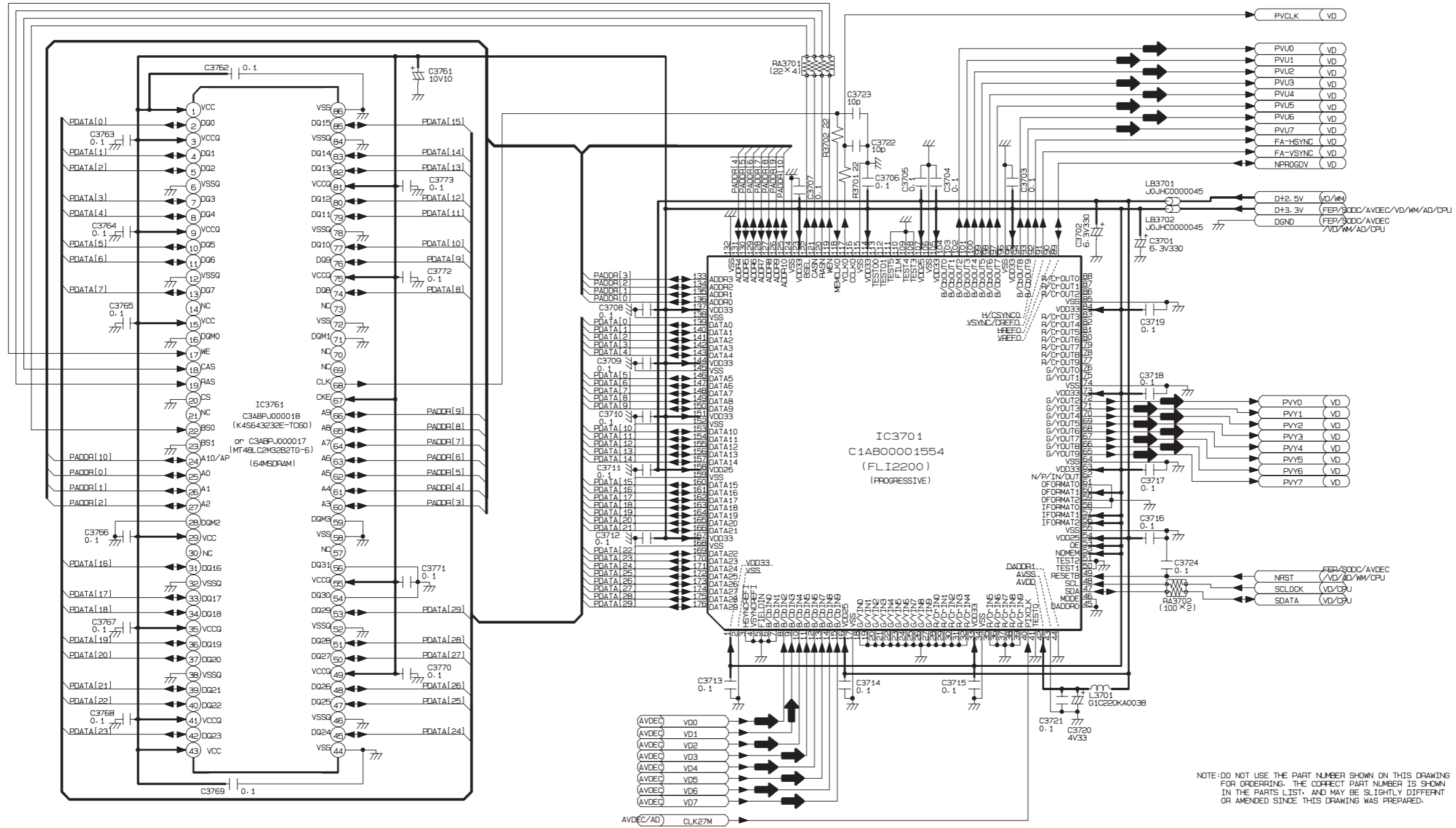
E

D

C

B

A



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



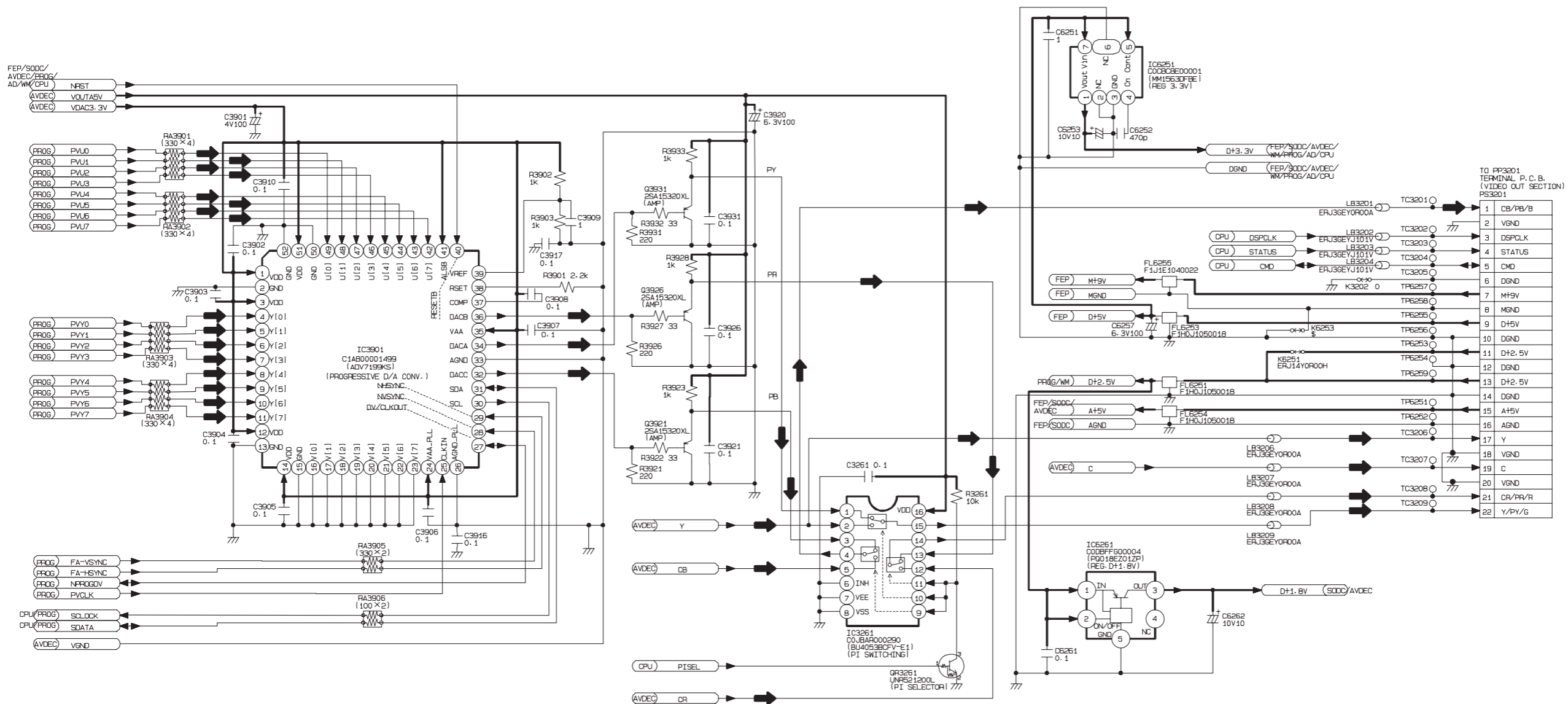
SCHEMATIC DIAGRAM

MODULE P.C.B. 5/8 (VIDEO-DAC SECTION)

A, R models

POWER SECTION: Page G (A model) Page D (R model) OP SECTION: Page E  
 VO SECTION: Page F AO1 SECTION: Page G AO2 SECTION: Page H  
 FEP SECTION: Page I SODC SECTION: Page J AVDEC SECTION: Page K  
 PRG SECTION: Page L VD SECTION: Page M AD SECTION: Page N  
 WM SECTION: Page O CPU SECTION: Page P

← VIDEO SIGNAL PATH



Terminal	Signal	Component
1	CB/PB/B	LB3201 ERJ3GEY0R00A
2	VGND	TC3201
3	DSPCLK	LB3202 ERJ3GEYJ101V
4	STATUS	LB3203 ERJ3GEYJ101V
5	CMD	LB3204 ERJ3GEYJ101V
6	DGND	K3202 0
7	D+5V	TP6258
8	M+5V	TP6258
9	D+5V	TP6258
10	DGND	TP6253
11	D+2.5V	TP6254
12	DGND	TP6259
13	D+2.5V	TP6259
14	DGND	TP6251
15	A+5V	TP6252
16	AGND	TC3206
17	Y	LB3206 ERJ3GEY0R00A
18	VGND	TC3207
19	C	LB3207 ERJ3GEY0R00A
20	VGND	TC3208
21	CR/PR/R	LB3208 ERJ3GEY0R00A
22	Y/PY/G	LB3209 ERJ3GEY0R00A

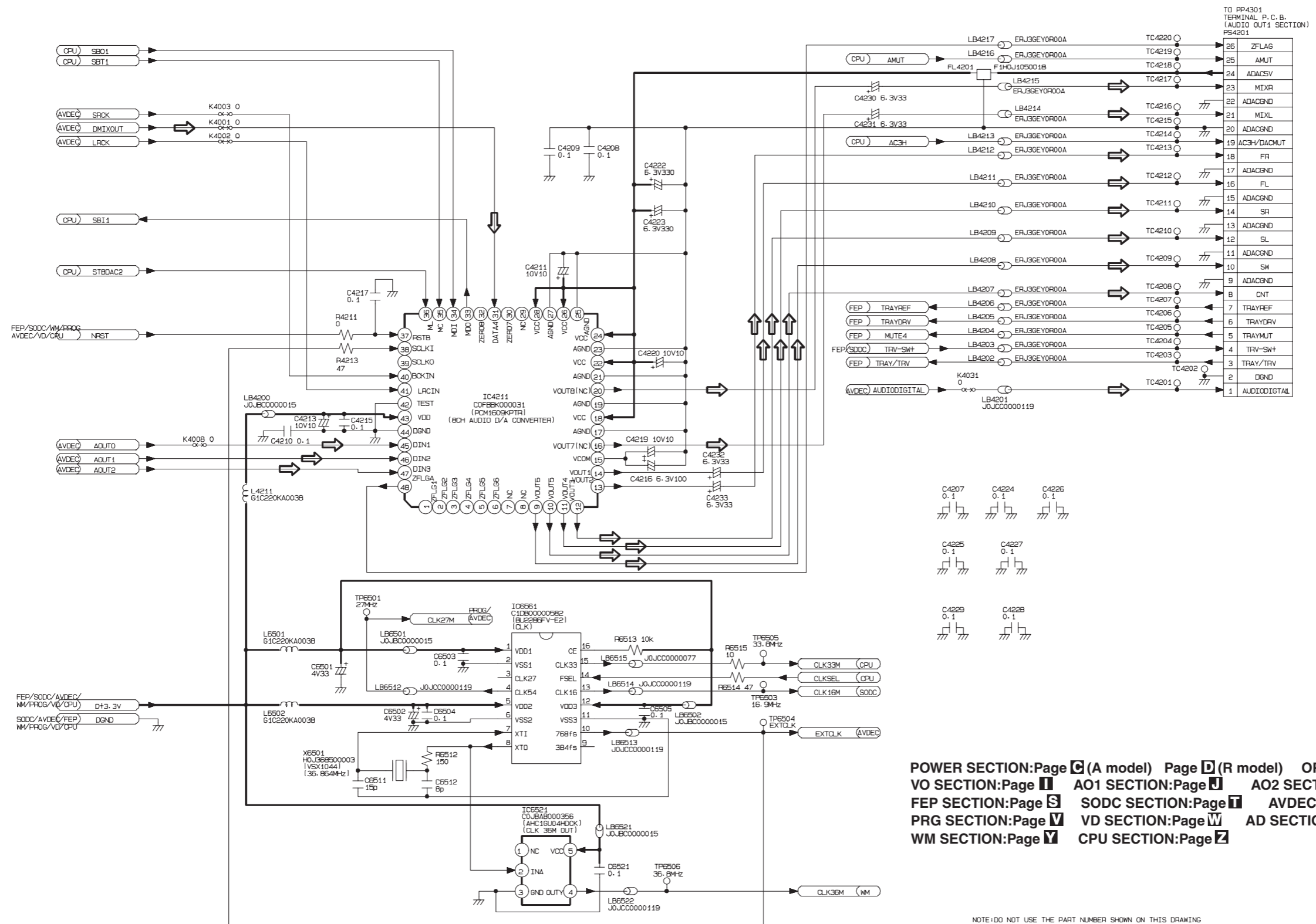
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

SCHEMATIC DIAGRAM  
MODULE P.C.B. 6/8 (AUDIO DAC SECTION)

A, R models

← AUDIO SIGNAL PATH

X



TO PP4301  
TERMINAL P.C.B.  
(AUDIO OUT1 SECTION)  
P54201

26	ZFLAG
25	AMUT
24	ADACSV
23	MIXR
22	ADACGND
21	MIXL
20	ADACGND
19	AC3H/DACMUT
18	FR
17	ADACGND
16	FL
15	ADACGND
14	SR
13	ADACGND
12	SL
11	ADACGND
10	SW
9	ADACGND
8	CNT
7	TRAYREF
6	TRAYDRV
5	TRAYMUT
4	TRV-SW+
3	TRAY/TRV
2	DGND
1	AUDIODIGITAL

POWER SECTION:Page G (A model) Page D (R model) OP SECTION:Page E  
 VO SECTION:Page I AO1 SECTION:Page J AO2 SECTION:Page K  
 FEP SECTION:Page S SODC SECTION:Page T AVDEC SECTION:Page U  
 PRG SECTION:Page V VD SECTION:Page W AD SECTION:Page X  
 WM SECTION:Page Y CPU SECTION:Page Z

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

G  
F  
E  
D  
C  
B  
A

1 2 3 4 5 6 7 8 9 10 11

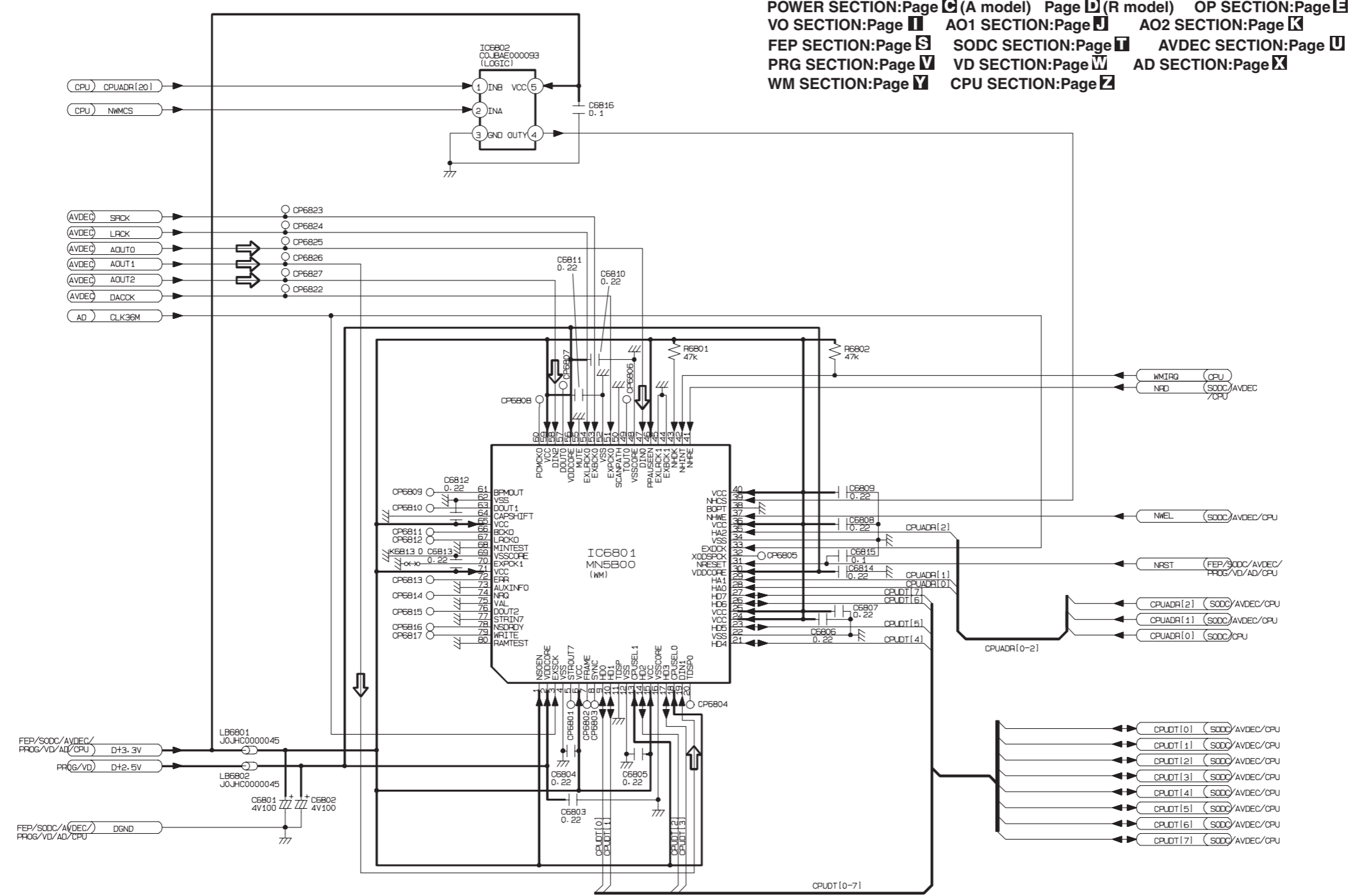
SCHEMATIC DIAGRAM

MODULE P.C.B. 7/8 (WM SECTION)

A, R models

AUDIO SIGNAL PATH

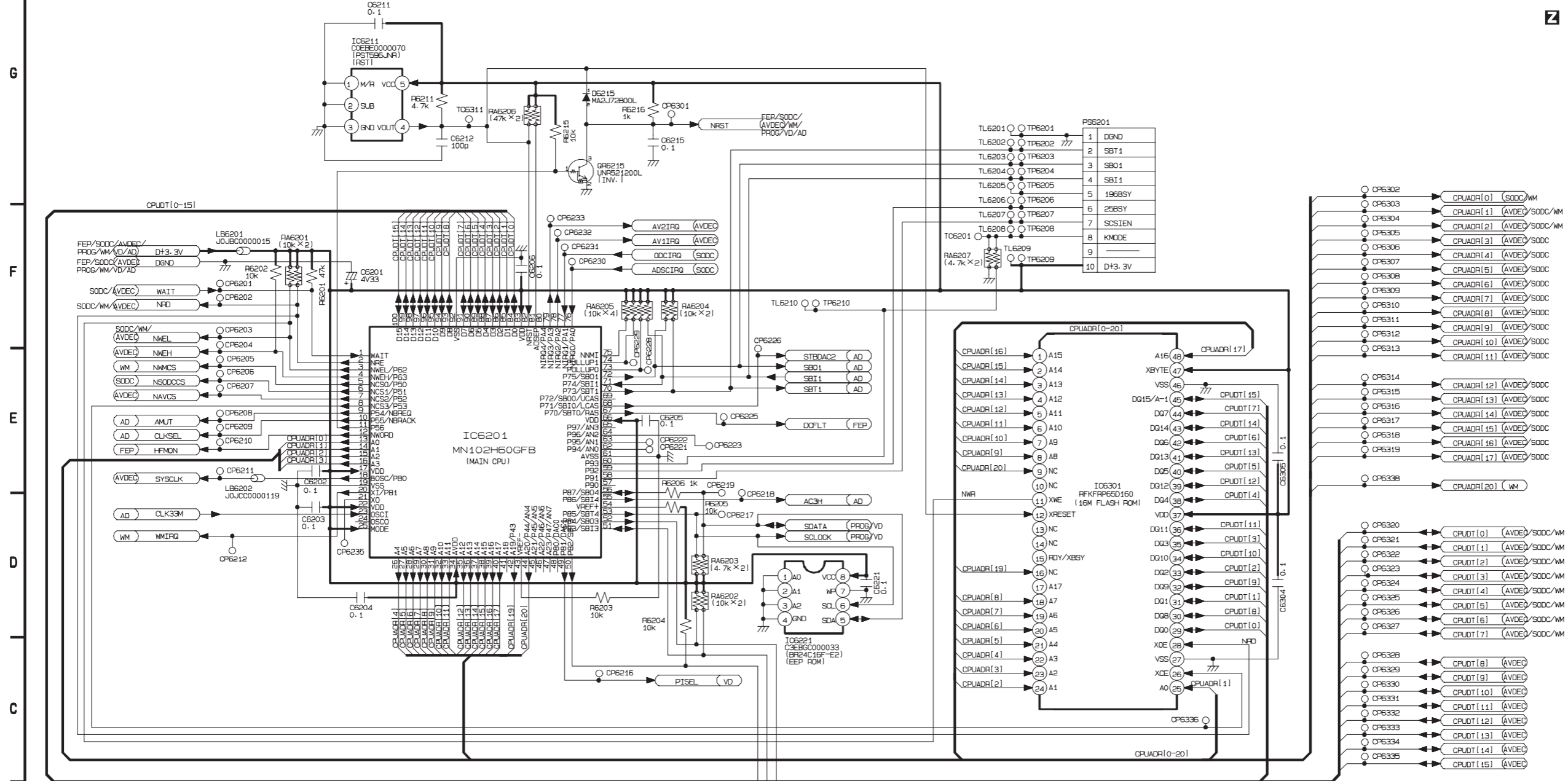
POWER SECTION:Page G (A model) Page D (R model) OP SECTION:Page E  
 VO SECTION:Page I AO1 SECTION:Page J AO2 SECTION:Page K  
 FEP SECTION:Page S SODC SECTION:Page T AVDEC SECTION:Page U  
 PRG SECTION:Page V VD SECTION:Page W AD SECTION:Page X  
 WM SECTION:Page Y CPU SECTION:Page Z



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

# SCHEMATIC DIAGRAM MODULE P.C.B. 8/8 (CPU SECTION)

A, R models

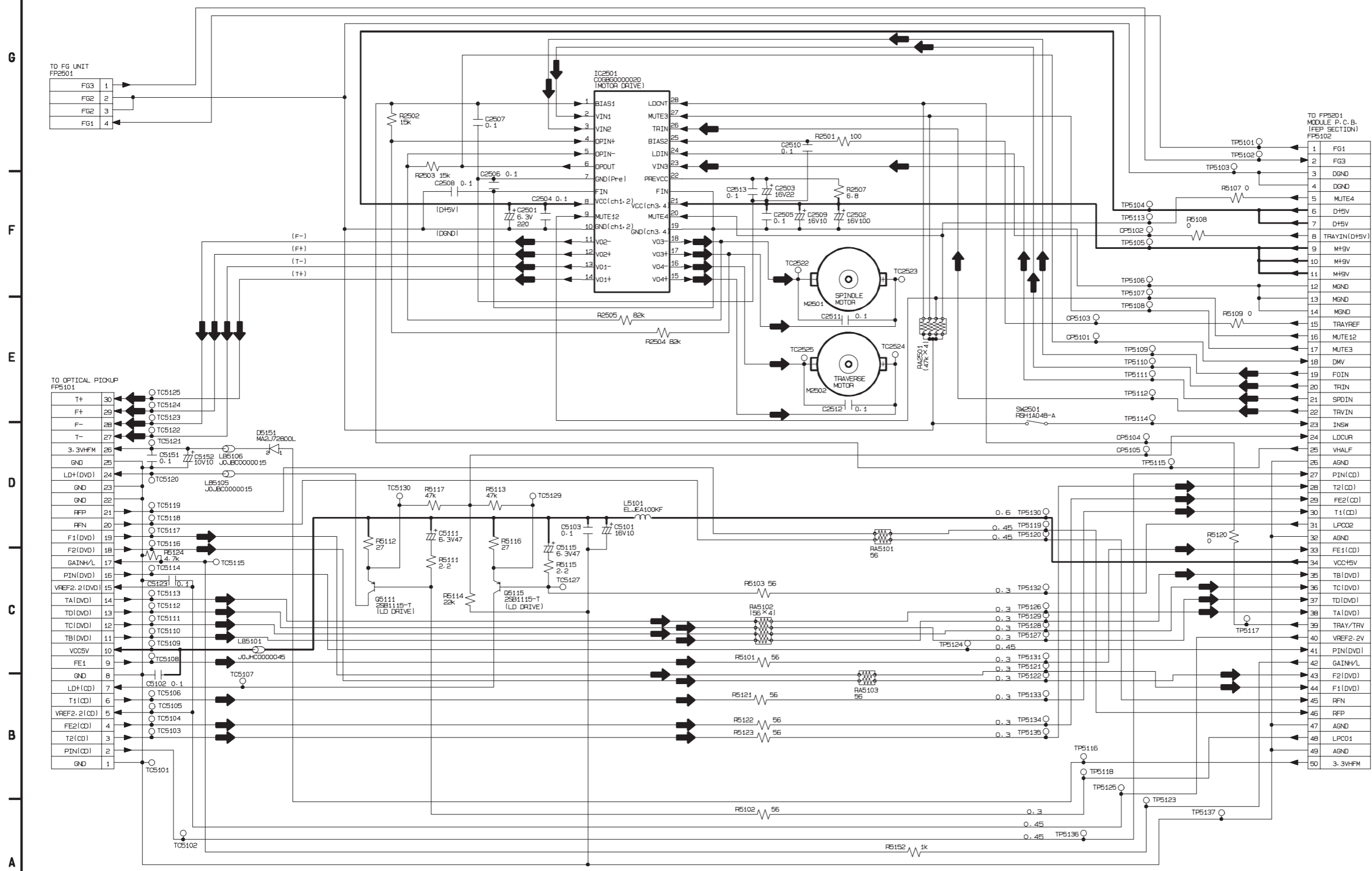


POWER SECTION: Page **C** (A model) Page **D** (R model) OP SECTION: Page **E**  
 VO SECTION: Page **F** AO1 SECTION: Page **G** AO2 SECTION: Page **H**  
 FEP SECTION: Page **I** SODC SECTION: Page **J** AVDEC SECTION: Page **K**  
 PRG SECTION: Page **L** VD SECTION: Page **M** AD SECTION: Page **N**  
 WM SECTION: Page **O** CPU SECTION: Page **Z**

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

# SCHEMATIC DIAGRAM INTERMEDIATE P.C.B.

← MAIN SIGNAL PATH



TO FG UNIT  
FP2501

FG3	1
FG2	2
FG2	3
FG1	4

TO OPTICAL PICKUP  
FP5101

T+	30	TC5125
F+	29	TC5124
F-	28	TC5123
T-	27	TC5122
T-	27	TC5121
3.3VHFM	26	
GND	25	
LDH(DVD)	24	TC5120
GND	23	
RFP	22	TC5119
RFN	21	TC5118
F1(DVD)	19	TC5117
F2(DVD)	18	TC5116
GAINH/L	17	TC5115
PIN(DVD)	16	TC5114
VREF2.2(DVD)	15	TC5113
TA(DVD)	14	TC5112
TD(DVD)	13	TC5111
TC(DVD)	12	TC5110
TB(DVD)	11	TC5109
VCC5V	10	TC5108
FE1	9	TC5107
GND	8	
LDH(CD)	7	TC5106
T1(CD)	6	TC5105
VREF2.2(CD)	5	TC5104
FE2(CD)	4	TC5103
T2(CD)	3	TC5102
PIN(CD)	2	TC5101
GND	1	

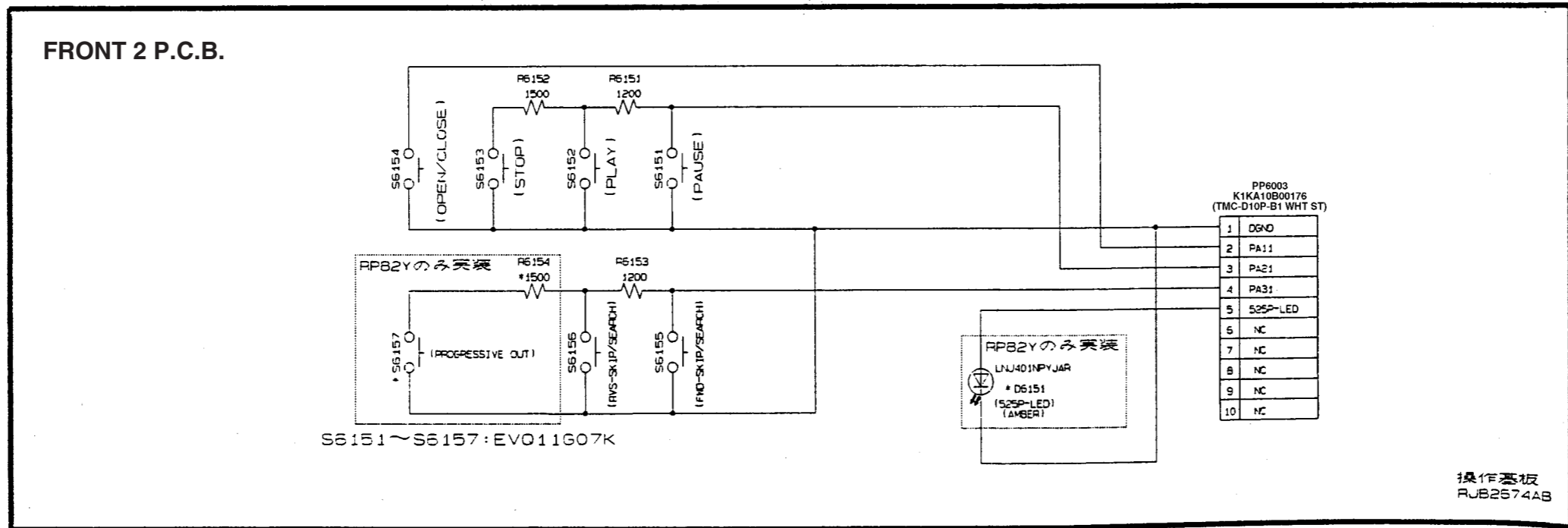
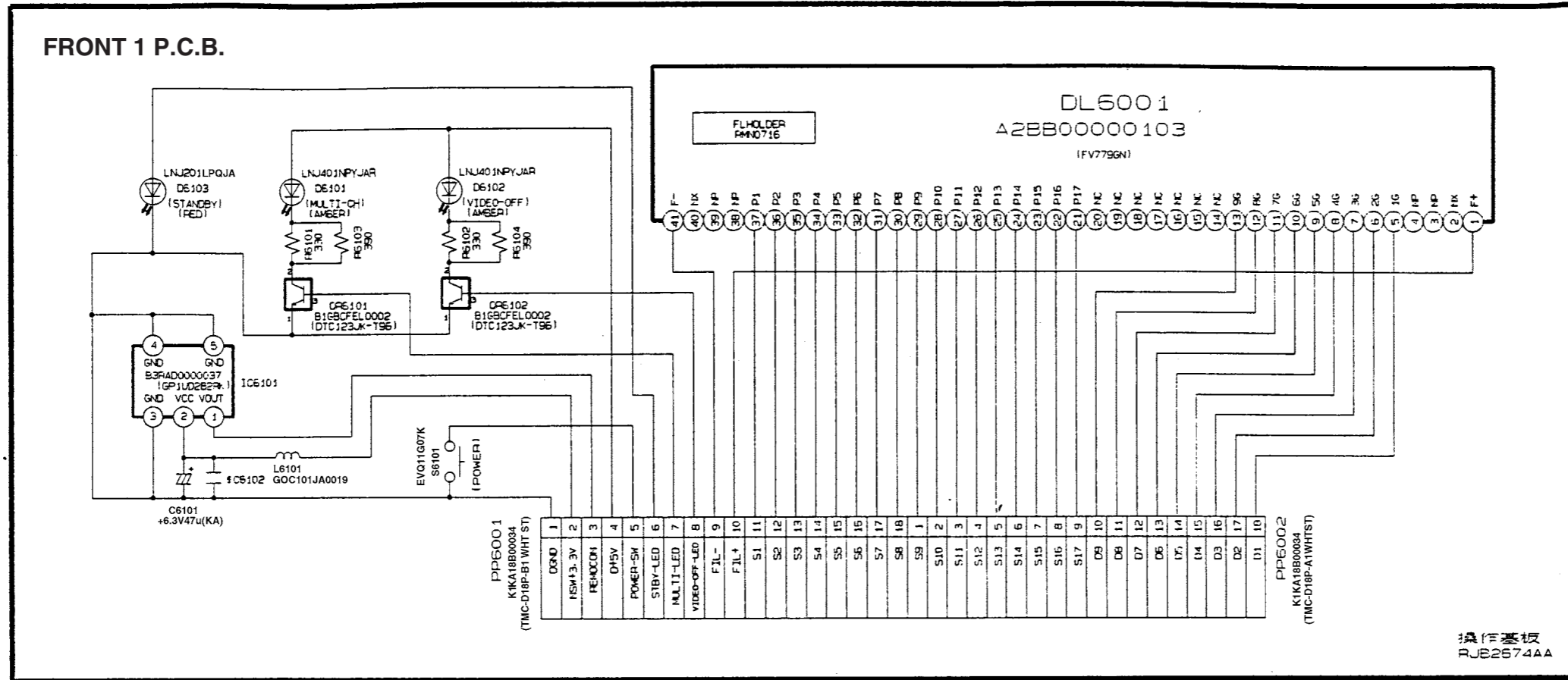
TO FP2501  
MODULE P.C.B.  
(REF. SECTION)  
FP5102

1	FG1
2	FG3
3	DGND
4	DGND
5	MUTE4
6	DH5V
7	DH5V
8	TRAYIN(DH5V)
9	MH5V
10	MH5V
11	MH5V
12	MGND
13	MGND
14	MGND
15	TRAYREF
16	MUTE12
17	MUTE3
18	DMV
19	FOIN
20	TRIN
21	SPDIN
22	TRVIN
23	INSW
24	LDCLR
25	VHALF
26	AGND
27	PIN(CD)
28	T2(CD)
29	FE2(CD)
30	T1(CD)
31	LPCD2
32	AGND
33	FE1(CD)
34	VCC5V
35	TB(DVD)
36	TC(DVD)
37	TD(DVD)
38	TA(DVD)
39	TRAY/TRV
40	VREF2.2V
41	PIN(DVD)
42	GAINH/L
43	F2(DVD)
44	F1(DVD)
45	RFN
46	RFP
47	AGND
48	LPCD1
49	AGND
50	3.3VHFM

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

■ SCHEMATIC DIAGRAM  
FRONT 1 and FRONT 2 P.C.B.

G  
F  
E  
D  
C  
B  
A



1 2 3 4 5 6 7 8 9 10 11



SCHEMATIC DIAGRAM  
SCART P.C.B.

B, G models

← VIDEO SIGNAL PATH  
↔ AUDIO SIGNAL PATH

G

F

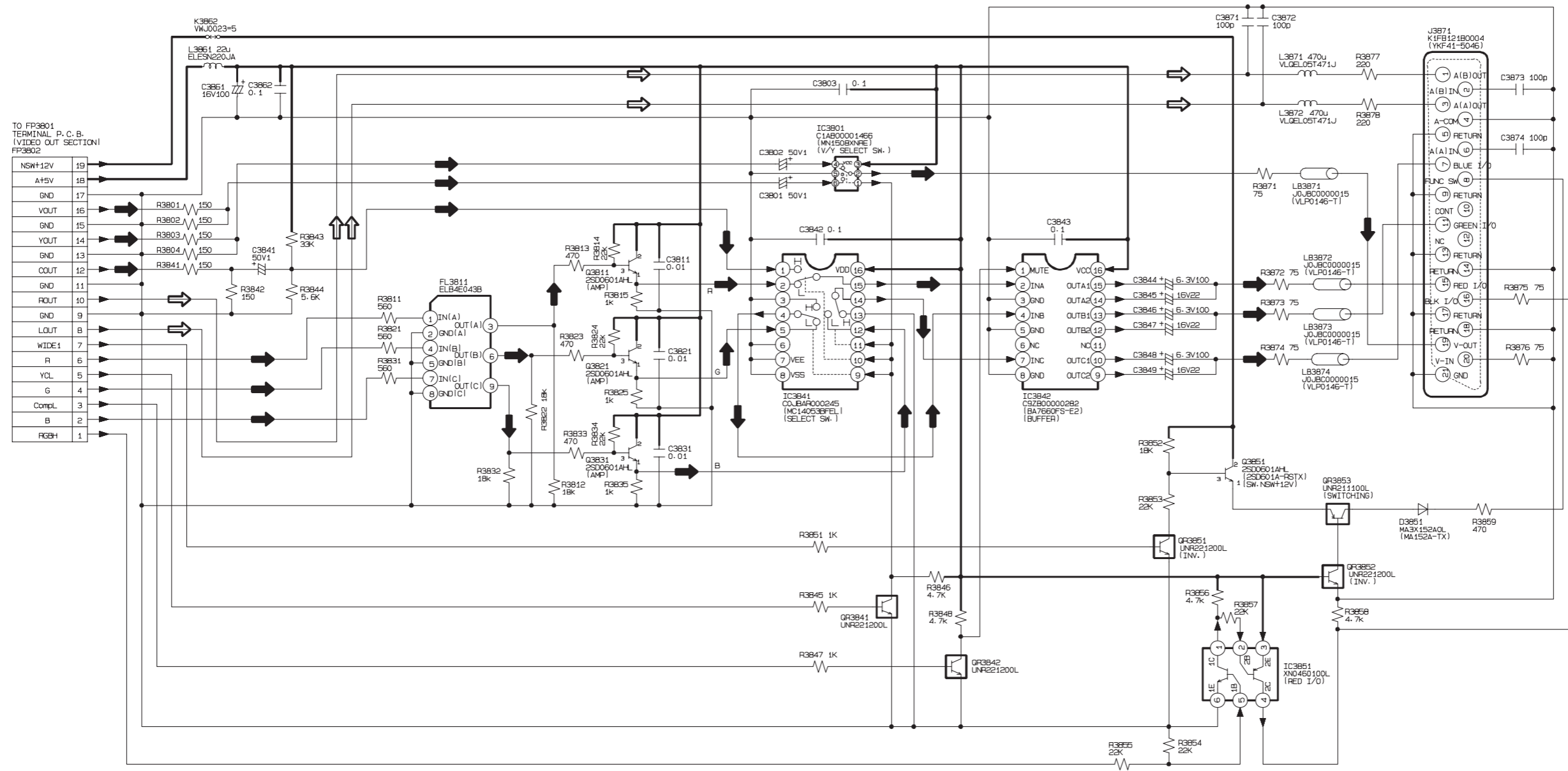
E

D

C

B

A



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# VOLTAGE CHART

## 1. POWER P.C.B.

### B, G models

Ref No.	IC1101			IC1125					IC1151											
MODE	K	R	A		1	2	3	4	5		1	2	3	4	5					
PLAY	2.5	0	3.7		3.7	3.2	2.7	1.2	0		9.7	3.2	9.0	-	0					
STOP	2.5	0	3.6		3.7	3.1	2.7	1.2	0		9.7	3.1	9.0	-	0					
Ref No.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	3.3	3.3	3.3	1.0	2.8	3.0	3.2	3.3	1.5	1.6	0	0	3.3	0	0	3.3	3.3	3.3	3.3	3.3
STOP	3.2	3.2	3.2	1.0	2.7	2.9	3.2	3.2	1.5	1.6	0	0	3.2	0	0	3.2	3.2	3.2	3.2	3.2
Ref No.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	0	1.0	2.0	3.3	0	3.3	1.6	1.6	3.2	3.3	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0	3.2
STOP	0	1.0	1.9	3.2	0	3.2	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	0	3.2
Ref No.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
PLAY	0	3.2	3.3	3.3	3.3	3.3	3.3	3.2	3.2	2.9	-	-	-	-	27.7	-27.6	-27.7	-27.7	-27.6	-27.7
STOP	0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.9	-	-	-	-	27.3	-27.3	-27.3	-27.3	-27.3	-27.3
Ref No.	IC6001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
PLAY	-27.8	-27.8	-28.3	-23.9	-24.0	-17.2	-10.4	-7.1	-13.7	-27.3	-27.3	-23.9	-24.2	24.1	-24.2	-27.5	-27.5	-7.3	-17.5	-13.9
STOP	-27.5	-27.4	-27.9	-26.9	-30.2	-23.6	-16.9	-20.3	-20.2	-26.9	-23.5	-26.7	-20.7	-23.9	-27.1	-23.8	-30.4	-17.2	-17.2	-13.7
Ref No.	IC6001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
PLAY	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	-	-	3.2	-	-	-	-	3.1	-4.7	-31.0
STOP	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	-	-	3.2	-	-	-	-	3.1	-4.7	-30.5
Ref No.	IC6001																			
MODE																				
PLAY																				
STOP																				
Ref No.	IC6011																			
MODE	1	2	3	4																
PLAY	-	0	3.3	3.3																
STOP	-	0	3.3	3.3																
Ref No.	Q1021			Q1051				Q1052			Q1115									
MODE	1	2	3	1	2	3	4	1	2	3			1	2	3	4	5	6		
PLAY	0	51.0	-0.3	5.2	4.1	0.7	13.0	0	-0.2	0			5.1	5.1	0	5.1	5.1	5.1		
STOP	0	165.7	-0.2	5.2	4.1	0.8	12.6	0	-0.2	0			5.1	5.1	0	5.1	5.1	5.1		
Ref No.	Q6091			Q6095			QR1115			QR6052			QR6056							
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B					
PLAY	3.3	5.1	4.0	-24.5	-24.5	-23.8	0	0	3.2	3.3	-0.4	3.3	3.3	0	3.2					
STOP	3.3	5.1	3.9	-24.1	-24.1	-23.4	0	0	3.1	3.3	-0.3	3.3	3.3	0	3.2					
Ref No.	QR6057																			
MODE	E	C	B																	
PLAY	3.2	0	3.2																	
STOP	3.2	0	3.2																	

DVD-S830

# A model

Ref No.	IC1101			IC1125					IC1151																	
MODE	K	R	A	1	2	3	4	5	1	2	3	4	5													
PLAY	3.7	2.5	0	3.7	3.0	2.7	1.3	0	9.8	3.1	9.1	-	0													
STOP	3.6	2.5	0	3.7	3.0	2.7	1.3	0	9.8	3.1	9.1	-	0													
Ref No.	IC6001																									
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20						
PLAY	3.3	3.3	3.3	1.0	2.8	3.0	3.2	3.3	1.5	1.0	0	0	3.3	0	0	3.3	3.3	3.3	3.3	3.3						
STOP	3.2	3.2	3.2	1.0	2.7	2.9	3.2	3.2	1.5	1.0	0	0	3.2	0	0	3.2	3.2	3.2	3.2	3.2						
Ref No.	IC6001																									
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						
PLAY	0	1.5	1.1	3.3	0	3.3	1.6	1.6	3.2	3.3	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0	3.2						
STOP	0	1.5	1.1	3.2	0	3.2	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	0	3.2						
Ref No.	IC6001																									
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60						
PLAY	0	3.2	3.3	3.3	3.3	3.3	3.3	3.2	3.2	2.9	-0.8	-0.8	-0.8	-0.8	-27.8	-27.6	-27.7	-27.7	-27.6	-27.7						
STOP	0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.9	-0.8	-0.8	-0.8	-0.8	-27.8	-27.3	-27.3	-27.3	-27.3	-27.3						
Ref No.	IC6001																									
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80						
PLAY	-27.8	-27.8	-28.3	-27.5	-20.7	-20.6	-10.4	-10.4	-17.2	-27.3	-27.5	-27.4	-27.5	-20.6	-27.5	-30.8	-20.6	-13.8	-17.5	-20.7						
STOP	-27.5	-27.4	-27.9	-27.5	-20.7	-20.6	-10.4	-10.4	-17.2	-26.9	-27.5	-27.4	-27.5	-20.6	-27.5	-30.8	-20.6	-13.8	-17.2	-20.7						
Ref No.	IC6001																									
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100						
PLAY	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	-	-	3.2	0	-	0	-	3.3	3.3	-31.0						
STOP	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	-	-	3.2	0	-	0	-	3.3	3.3	-30.5						
Ref No.	IC6011																									
MODE	1	2	3	4																						
PLAY	-	0	3.3	3.3																						
STOP	-	0	3.3	3.3																						
Ref No.	Q1021			Q1051				Q1052			Q1115															
MODE	1	2	3	1	2	3	4	1	2	3	1	2	3	4	5	6										
PLAY	0	126.3	0.3	5.2	4.1	0.2	1.8	0	0.3	0.1	5.1	5.1	0	5.1	5.1	5.1										
STOP	0	119.3	0.2	5.2	4.1	0.1	1.7	0	0.2	0.1	5.1	5.1	0	5.1	5.1	5.1										
Ref No.	Q6091			Q6095			QR1115			QR6052			QR6055													
MODE	E	C	B	E	C	B	1	2	3	E	C	B	E	C	B											
PLAY	3.3	5.1	4.0	-24.8	-24.7	-24.0	0	0	3.0	3.3	0	3.3	3.3	0.1	3.3											
STOP	3.3	5.1	3.9	-24.2	-24.1	-23.4	0	0	3.0	3.3	-0.1	3.3	3.3	0.1	3.3											
Ref No.	QR6056			QR6057																						
MODE	E	C	B	E	C	B																				
PLAY	3.3	0	3.3	3.2	0	3.2																				
STOP	3.3	0	3.3	3.2	0	3.2																				

# R model

Ref No.	IC1021							IC1101			IC1125														
MODE	1	2	3	4	5	6	7	K	R	A	1	2	3	4	5										
PLAY	24.5	0.1	0	0	18.6	0.5	0.3	4.1	2.5	0	5.2	3.0	2.7	1.3	0										
STOP	34.4	0.1	0	0	18.2	0.5	0.2	4.1	2.5	0	5.2	3.0	2.7	1.3	0										
Ref No.	IC1151																								
MODE	1	2	3	4	5																				
PLAY	9.9	3.0	9.0	-	0																				
STOP	10.0	3.0	9.0	-	0																				
Ref No.	IC6001																								
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20					
PLAY	3.3	3.3	3.3	1.1	2.8	3.0	3.2	3.3	1.5	1.0	0	0	3.3	0	0	3.3	3.3	3.3	3.3	3.3					
STOP	3.2	3.2	3.3	1.1	2.7	2.9	3.2	3.2	1.5	1.0	0	0	3.2	0	0	3.2	3.2	3.2	3.2	3.2					
Ref No.	IC6001																								
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40					
PLAY	0	1.5	1.1	3.3	0	3.3	1.6	1.6	3.2	3.3	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0	3.2					
STOP	0	1.5	1.1	3.2	0	3.2	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	0	3.2					
Ref No.	IC6001																								
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60					
PLAY	0	3.2	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.3	-0.8	-0.8	-0.8	-0.8	-27.8	-27.6	-27.7	-27.7	-27.6	-27.7					
STOP	0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	-0.8	-0.8	-0.8	-0.8	-27.8	-27.3	-27.3	-27.3	-27.3	-27.3					
Ref No.	IC6001																								
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80					
PLAY	-27.8	-27.8	-28.3	-27.5	-20.7	-20.6	-10.4	-10.4	-17.2	-27.3	-27.5	-27.4	-27.5	-20.6	-27.5	-30.8	-20.6	-13.8	-17.3	-20.7					
STOP	-27.5	-27.4	-27.9	-27.5	-20.7	-20.6	-10.4	-10.4	-17.2	-26.9	-27.5	-27.4	-27.5	-20.6	-27.5	-30.8	-20.6	-13.8	-17.2	-20.7					
Ref No.	IC6001																								
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100					
PLAY	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	-	-	3.3	0	-	0	-	3.3	3.3	-31.2					
STOP	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	-	-	3.3	0	-	0	-	3.3	3.3	-31.2					
Ref No.	IC6011																								
MODE	1	2	3	4																					
PLAY	-	0	3.3	3.3																					
STOP	-	0	3.3	3.3																					
Ref No.	Q1051				Q1115						Q6091														
MODE	1	2	3	4	1	2	3	4	5	6	E	C	B												
PLAY	5.2	4.2	0.5	17.9	5.1	5.1	0.1	5.2	5.1	5.1	3.3	5.2	4.0												
STOP	5.2	4.2	0.5	17.5	5.1	5.1	0.1	5.2	5.1	5.1	3.3	5.2	4.0												
Ref No.	QR1115			QR6052			QR6055			QR6056			QR6057												
MODE	1	2	3	E	C	B	E	C	B	E	C	B	E	C	B										
PLAY	0	0	3.0	3.3	-0.8	3.3	3.3	0.1	3.3	3.3	-0.6	3.3	3.3	-0.6	3.3										
STOP	0	0	3.0	3.3	-0.4	3.3	3.3	0.1	3.3	3.3	-0.1	3.3	3.3	-0.1	3.3										

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2. TERMINAL P.C.B.

**B, G models**

Ref No.	IC3501																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
PLAY	2.1	5.0	2.8	0	2.6	5.0	0	2.5	0	1.9	5.0	2.8	0	2.8	5.0	2.2	2.3	-	2.3	0	
STOP	2.1	5.0	2.8	2.4	2.4	5.0	0	2.4	0	1.8	5.0	2.8	0	2.8	5.0	2.2	2.3	-	2.3	0	
Ref No.	IC3501												IC3581								
MODE	21	22	23	24	25	26	27	28	29	30	31	32	1	2	3						
PLAY	2.1	2.1	0	2.0	2.1	0	1.9	0	2.0	2.0	0	2.3									
STOP	1.7	1.7	0	1.7	1.7	0	1.8	0	1.7	1.6	0	2.3									
Ref No.	IC4301								IC4302												
MODE	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8					
PLAY	0	0	0	-10.4	0	0	0	10.2	0	0	0	-9.7	0	0	0	9.0					
STOP	0	0	0	-10.3	0	0	0	10.1	0	0	0	-9.6	0	0	0	9.0					
Ref No.	IC4303								IC4304												
MODE	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8					
PLAY	0	0	0	-9.7	0	0	0	9.0	0	0	0	-9.7	0	0	0	9.0					
STOP	0	0	0	-9.6	0	0	0	9.0	0	0	0	-9.6	0	0	0	9.0					
Ref No.	IC4305																				
MODE	1	2	3																		
PLAY	4.9	0	9.0																		
STOP	4.9	0	9.0																		
Ref No.	Q4302			Q4315			Q4410			Q4411			Q4412								
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B						
PLAY	0	2.8	0	0	0	-0.4	0	0	-4.7	0	0	-4.7	0	0	-4.7						
STOP	0	0	0	0	0	-0.3	0	0	0.7	0	0	0.7	0	0	0.7						
Ref No.	Q4413			Q4414			Q4415			Q4416			Q4417								
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B						
PLAY	0	0	-4.7	0	0	-4.7	0	0	-4.7	0	0	-4.7	0	0	-4.7						
STOP	0	0	-4.7	0	0	0.7	0	0	0.7	0	0	0.7	0	0	0.7						
Ref No.	Q4418			Q4419			Q4751			Q4901			Q4911								
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B						
PLAY	0	0	-4.7	0	0	-4.7	1.7	4.9	2.4	9.1	9.8	9.7	-9.7	-10.4	-10.4						
STOP	0	0	0.7	0	0	0.7	1.8	4.9	2.4	9.1	9.8	9.7	9.0	9.7	9.6						
Ref No.	Q4921			Q4931			QR3521			QR3523			QR4301								
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B						
PLAY	9.8	9.7	9.8	-10.4	-10.4	-10.4	0	0	3.2	0	3.5	0	0	2.8	0						
STOP	9.7	9.7	9.7	-10.3	-10.3	-10.3	0	0	3.2	0	3.5	0	0	0	3.2						
Ref No.	QR4302			QR4304			QR4316			QR4317			QR4901								
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B						
PLAY	0	0.1	2.8	0.1	-4.7	0	0	-0.4	0	0	0	3.2	9.8	9.8	0						
STOP	0	1.5	0	1.5	1.3	0	0	-0.3	0	0	0	3.2	9.7	9.7	0						
Ref No.	QR4902			QR4903			QR4904														
MODE	E	C	B	E	C	B	E	C	B												
PLAY	-10.4	-10.4	9.8	0	0	3.0	9.8	9.8	0												
STOP	-10.3	-10.3	9.7	0	0	3.0	9.7	9.7	0												

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# A, R models

Ref No.	IC3501																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
PLAY	2.1	5.0	2.8	0	2.6	5.0	0	2.5	0	1.9	5.0	2.8	0	2.8	5.0	2.2	2.3	-	2.3	0	
STOP	2.1	5.0	2.8	2.4	2.4	5.0	0	2.4	0	1.8	5.0	2.8	0	2.8	5.0	2.2	2.3	-	2.3	0	
Ref No.	IC3501												IC3581								
MODE	21	22	23	24	25	26	27	28	29	30	31	32	1	2	3						
PLAY	2.1	2.1	0	2.0	2.1	0	1.9	0	2.0	2.0	0	2.3	8.9	0	5.1						
STOP	1.7	1.7	0	1.7	1.7	0	1.8	0	1.7	1.6	0	2.3	8.9	0	5.1						
Ref No.	IC4301								IC4302												
MODE	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8					
PLAY	0	0	0	-10.4	0	0	0	10.2	0	0	0	-9.7	0	0	0	9.0					
STOP	0	0	0	-10.3	0	0	0	10.1	0	0	0	-9.6	0	0	0	9.0					
Ref No.	IC4303								IC4304												
MODE	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8					
PLAY	0	0	0	-9.7	0	0	0	9.0	0	0	0	-9.7	0	0	0	9.0					
STOP	0	0	0	-9.6	0	0	0	9.0	0	0	0	-9.6	0	0	0	9.0					
Ref No.	IC4305																				
MODE	1	2	3																		
PLAY	4.9	0	9.0																		
STOP	4.9	0	9.0																		
Ref No.	Q4302			Q4315			Q4410			Q4413			Q4414								
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
PLAY	0	2.8	0	0	0	-0.4	0	0	-4.7	0	0	-4.7	0	0	-4.7	0	0	-4.7	0	0	-4.7
STOP	0	0	0	0	0	-0.3	0	0	0.7	0	0	-4.7	0	0	-4.7	0	0	-4.7	0	0	0.7
Ref No.	Q4415			Q4416			Q4417			Q4418			Q4419								
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
PLAY	0	0	-4.7	0	0	-4.7	0	0	-4.7	0	0	-4.7	0	0	-4.7	0	0	-4.7	0	0	-4.7
STOP	0	0	0.7	0	0	0.7	0	0	0.7	0	0	0.7	0	0	0.7	0	0	0.7	0	0	0.7
Ref No.	Q4751			Q4901			Q4911			Q4921			Q4931								
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
PLAY	1.7	4.9	2.4	9.1	9.8	9.7	-9.7	-10.4	-10.4	9.8	9.7	9.8	-10.4	-10.4	-10.4	9.8	9.7	9.8	-10.4	-10.4	-10.4
STOP	1.8	4.9	2.4	9.1	9.8	9.7	9.0	9.7	9.6	9.7	9.7	9.7	-10.3	-10.3	-10.3	9.7	9.7	9.7	-10.3	-10.3	-10.3
Ref No.	QR3501			QR3521			QR3523			QR4301			QR4302								
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
PLAY	0	0	3.2	0	0	3.2	0	3.5	0	0	2.8	0	0	0.1	2.8	0	0	1.5	0	0	0
STOP	0	0	3.2	0	0	3.2	0	3.5	0	0	2.8	0	0	0.1	2.8	0	0	1.5	0	0	0
Ref No.	QR4304			QR4316			QR4317			QR4901			QR4902								
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
PLAY	0.1	-4.7	0	0	-0.4	0	0	0	3.2	9.8	9.8	0	-10.4	-10.4	9.8	0	-10.4	-10.4	9.8	0	0
STOP	1.5	1.3	0	0	-0.3	0	0	0	3.2	9.7	9.7	0	-10.3	-10.3	9.7	0	-10.3	-10.3	9.7	0	0
Ref No.	QR4903			QR4904																	
MODE	E	C	B	E	C	B															
PLAY	0	0	3.0	9.8	9.8	0															
STOP	0	0	3.0	9.7	9.7	0															

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3. MODULE P.C.B.

**B, G models**

Ref No.	IC2001																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
PLAY	0	3.3	3.3	0	3.3	3.3	0	0	2.3	2.1	2.3	2.3	2.4	2.5	2.4	2.4	2.5	1.8	0	1.8	
STOP	0	3.3	3.3	0	3.3	3.3	0	0	2.7	2.6	2.7	2.8	2.7	2.6	2.7	2.6	2.7	3.1	1.8	0	1.8
Ref No.	IC2001																				
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
PLAY	0	2.4	2.5	2.7	2.5	2.7	2.6	2.6	2.7	2.0	3.3	0	3.3	3.3	3.3	2.6	2.8	2.8	2.7	2.7	
STOP	0	3.1	3.1	3.1	2.8	2.4	1.3	2.0	2.0	3.1	3.3	0	3.3	3.3	3.3	3.0	3.1	3.1	3.0	3.3	
Ref No.	IC2001																				
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	
PLAY	2.7	2.7	2.6	2.7	1.4	0	3.2	0	3.3	3.3	0	0	0	0	3.3	0.1	3.3	1.8	0	0	
STOP	3.0	3.1	3.0	3.0	1.4	0	3.2	0	3.3	3.3	3.3	0	0	0	3.3	3.3	3.3	1.8	0	0	
Ref No.	IC2001																				
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	
PLAY	3.3	3.3	3.3	0	1.6	1.3	1.6	2.1	1.2	3.3	3.3	0	3.3	3.3	0	1.8	0	3.3	1.5	1.5	
STOP	3.3	3.3	0	0	1.6	1.3	1.6	1.6	3.3	0	1.2	3.3	3.3	0	1.8	0	3.3	1.5	1.5	1.5	
Ref No.	IC2001																				
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	
PLAY	0	0	0	1.6	0	1.6	1.6	3.3	0	1.6	1.6	0	0	0	1.6	1.6	1.4	1.6	3.3	1.3	
STOP	0	0	0	1.6	0	1.6	3.3	3.3	0	1.6	1.6	0	0	0	1.6	1.6	1.4	1.6	3.3	0	
Ref No.	IC2001																				
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	
PLAY	1.3	0	1.5	2.2	3.1	1.6	1.4	1.6	3.3	1.6	1.6	2.0	0	1.7	1.6	3.3	1.6	1.7	2.4	2.4	
STOP	0	0	1.5	2.2	2.8	1.6	1.5	1.6	3.3	1.6	1.6	2.3	0	0	1.6	3.3	1.6	1.6	1.6	1.6	
Ref No.	IC2001																				
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	
PLAY	2.1	2.2	1.3	1.4	3.3	0	0	0	0	0	3.2	3.3	0	3.3	3.3	1.7	3.3	0	3.3	0	
STOP	2.4	1.6	1.4	0.1	3.3	0	0	0	0	0	3.3	3.3	0	3.3	3.3	1.7	3.3	0	3.3	0	
Ref No.	IC2001																				
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	
PLAY	0.5	3.3	3.3	0	0	1.4	3.3	3.3	1.0	0	1.0	1.8	0	0	0	3.3	0	0	0	1.0	
STOP	0	3.3	3.3	0	0	1.6	2.4	3.3	0	0	1.8	0	0	0	3.3	0	0	0	0	0	
Ref No.	IC2001																				
MODE	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176					
PLAY	0	3.3	0	1.0	0	1.8	0	1.0	3.3	0	0	1.0	0	3.3	3.3	3.3					
STOP	0	3.3	0	1.0	0	0	0	0	3.3	0	0	0	0	3.3	3.3	3.3					
Ref No.	IC2101																				
MODE	1	2	3	4	5																
PLAY	1.6	1.6	0	0	5.0																
STOP	1.6	1.6	0	0	5.0																
Ref No.	IC3001																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
PLAY	3.3	0.2	1.5	0.1	1.8	1.7	0.1	1.5	0	1.6	3.3	3.3	3.2	0	0	1.8	3.2	3.2	3.3	0	
STOP	3.3	0	1.1	0	1.8	1.1	0.1	1.0	0	1.1	3.3	3.3	3.2	0	0	1.8	3.2	3.3	3.3	0	
Ref No.	IC3001																				
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
PLAY	3.2	3.2	2.6	3.2	3.3	1.5	3.3	0	3.3	3.3	0	0	0	0	0	0	1.8	2.5	2.4	2.5	
STOP	3.3	3.3	3.0	3.2	3.3	1.5	3.0	3.0	3.0	3.0	0	2.9	3.0	2.8	2.8	2.8	1.8	2.7	2.6	2.7	
Ref No.	IC3001																				
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	
PLAY	2.3	2.3	0	2.2	2.0	2.2	2.5	3.3	2.5	2.7	2.7	2.6	0	2.7	2.8	2.8	1.8	2.6	2.5	0.7	
STOP	2.7	2.8	0	2.7	2.6	2.7	3.0	3.3	2.9	3.0	3.0	3.0	0	3.0	3.0	3.1	1.8	3.0	3.0	3.0	
Ref No.	IC3001																				
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	
PLAY	3.3	2.7	2.8	0	2.7	2.8	2.8	3.3	0.5	1.6	3.2	0	0.6	0.7	0.6	0.7	1.8	1.7	1.1	0.9	
STOP	3.3	3.0	3.0	0	3.0	3.1	3.1	3.3	0	1.6	0	0	0	0	0	0	1.8	0.00			
Ref No.	IC3001																				
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	
PLAY	0.8	0	1.6	1.2	3.3	1.4	1.6	1.6	0	1.2	0	0	3.3	0	0	1.5	1.8	0	1.8	1.6	
STOP	0	0	1.6	0	3.3	1.5	1.6	1.6	0	0	0	3.3	0	0	1.5	1.8	0	1.8	1.5	1.5	
Ref No.	IC3001																				
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	
PLAY	3.3	0.1	0	0	3.3	3.3	1.8	0	3.3	0	0	3.3	0	0	2.9	0	3.3	0	0	2.9	
STOP	3.3	0.1	0	0	3.3	0	1.8	0	3.3	0	0	3.3	0	0	2.9	0	3.3	0	0	2.9	
Ref No.	IC3001																				
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	
PLAY	0	0	0	0	2.9	0	3.3	0	0	2.8	0	0	0	0	0	1.5	0	0	0	0	
STOP	0	0	0	0	2.9	0	3.3	0	0	2.8	0	0	0	0	0	1.5	0	0	0	0	
Ref No.	IC3001																				
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	
PLAY	3.3	0	0	3.2	3.0	1.8	1.2	1.1	1.0	1.1	0	1.3	1.3	1.3	2.0	3.3	0	2.5	2.7	3.3	
STOP	3.3	0	0	3.3	3.0	1.8	1.1	0.4	0.5	0.6	0	1.9	0.2	0.2	1.3	3.3	0	2.9	2.8	3.3	
Ref No.	IC3001																				
MODE	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	
PLAY	2.6	2.4	2.6	2.5	3.3	2.6	3.0	2.5	0	2.4	2.7	3.3	2.5	1.8	2.6	0	2.6	2.6	3.3	2.8	
STOP	2.5	2.6	0	2.5	2.7	3.3	2.9	2.7	0	2.6	3.0	3.3	2.6	1.8	2.6	0	2.6	2.6	3.3	2.8	
Ref No.	IC3001																				
MODE	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	
PLAY	2.9	0	1.7	1.8	1.7	0	3.3	3.3	1.7	0.8	1.8	1.8	3.1	0	3.0	3.1	3.3	1.6	2.9	0	
STOP	0	2.6	2.6	3.3	1.7	0	3.3	3.3	2.4	0.1	1.8	2.4	3.2	0	3.2	3.2	3.3	3.3	3.0	0	

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Ref No.	IC3001																				
MODE	201	202	203	204	205	206	207	208													
PLAY	0	1.8	1.3	0	3.3	0	1.4	0													
STOP	0	1.8	1.0	0	3.3	0	1.1	0													
Ref No.	IC3061																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
PLAY	3.3	2.8	3.3	2.5	2.8	2.5	2.5	2.8	3.3	2.7	2.8	0	2.8	3.3	1.9	3.2	3.1	3.2	3.0	1.4	
STOP	3.3	2.8	3.3	2.6	2.7	0	2.7	3.0	3.3	2.6	2.6	0	2.7	3.3	2.5	3.2	3.2	3.2	3.1	1.0	
Ref No.	IC3061																				
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
PLAY	0.3	0	0.2	0.2	0.2	1.6	3.3	0	1.5	1.6	1.6	1.5	0	0	1.2	-	3.3	1.7	1.9	-	
STOP	0.1	0	0.1	0.1	0.1	1.1	3.3	0	1.0	1.1	1.1	1.1	0	0	1.6	-	3.3	1.7	2.5	-	
Ref No.	IC3061																				
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54							
PLAY	0	2.8	3.3	2.6	2.6	0	2.8	3.0	3.3	2.6	2.7	0	2.6	0							
STOP	0	0	3.3	2.6	2.6	0	2.6	2.9	3.3	2.5	2.5	0	2.9	0							
Ref No.	IC3071																				
MODE	1	2	3	4	5	6															
PLAY	4.9	0	4.9	1.3	0	3.3															
STOP	4.9	0	4.9	1.2	0	3.3															
Ref No.	IC3201																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
PLAY	1.2	1.3	1.1	1.0	1.4	1.2	1.3	1.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0	3.3	3.3	
STOP	1.1	0.5	0.6	0.6	1.9	0.3	0.2	1.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0	3.3	3.3	
Ref No.	IC3201																				
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
PLAY	3.3	0	0	0	3.3	0	1.5	-	3.3	3.3	3.3	0	0	1.2	1.5	0.7	0.6	3.3	0	0	
STOP	2.1	0	0	0	3.3	0	1.5	-	3.3	3.3	3.3	0	0	1.2	1.5	0.7	0.3	3.3	0	0	
Ref No.	IC3201																				
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	
PLAY	0.4	0	3.3	0.2	0.4	1.5	1.2	1.2	3.2	3.0	3.3	0	-	3.3	0	0	-	-	-	-	
STOP	0.1	0	3.3	0.1	0.1	1.5	1.2	1.2	3.2	3.0	3.3	0	-	3.3	0	0	-	-	-	-	
Ref No.	IC3201																				
MODE	61	62	63	64																	
PLAY	-	-	3.3	0																	
STOP	-	-	3.3	0																	
Ref No.	IC4211																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
PLAY	3.3	3.3	0	0	0	0	-	2.4	2.4	2.5	2.4	2.5	2.4	2.5	2.5	2.5	0	4.9	0	2.4	
STOP	0	0	0	0	0	0	-	1.0	2.4	2.5	2.4	2.5	2.4	2.5	2.4	2.5	0	4.9	0	2.4	
Ref No.	IC4211																				
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
PLAY	0	4.9	0	4.9	0	4.9	0	4.9	-	-	1.2	3.3	3.3	3.3	2.8	3.3	3.2	1.6	1.4	1.6	
STOP	0	4.9	0	4.9	0	4.9	0	4.9	-	-	0	0	3.3	3.3	2.8	3.3	3.2	1.6	1.5	1.6	
Ref No.	IC4211																				
MODE	41	42	43	44	45	46	47	48													
PLAY	1.7	0	3.3	0	1.2	0	0	3.2													
STOP	1.7	0	3.3	0	0	0	0	0													
Ref No.	IC5201																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
PLAY	0.5	3.2	0	4.9	1.4	-	1.6	1.6	1.6	1.6	-	1.6	0	2.4	1.6	1.6	0	3.2	3.3	3.3	0
STOP	0	4.9	0	4.9	1.6	-	1.6	1.6	1.6	1.6	-	1.6	0	1.6	1.6	1.6	0	3.2	3.3	3.3	0
Ref No.	IC5201																				
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
PLAY	0	0	3.3	0	3.3	-	0.5	0	1.3	1.2	1.8	1.1	3.3	1.8	1.8	1.7	1.0	1.4	0	-	
STOP	3.3	0	3.3	0	3.3	-	0.5	0	1.1	1.1	1.9	1.1	3.3	1.8	1.8	1.7	1.0	0.6	0	-	
Ref No.	IC5201																				
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	
PLAY	0	0	1.7	0.9	0	2.1	2.1	2.0	2.3	5.0	2.2	2.2	2.3	2.3	2.2	1.8	-	2.3	2.2	2.2	
STOP	0	0	1.7	0.9	0	2.1	2.1	1.6	1.6	5.0	2.2	2.2	2.2	2.2	2.2	1.8	-	2.2	2.2	2.2	
Ref No.	IC5201																				
MODE	61	62	63	64																	
PLAY	2.2	2.2	2.2	0																	
STOP	2.2	2.2	2.2	0																	
Ref No.	IC6201																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
PLAY	3.3	2.6	3.2	3.2	3.3	3.3	3.2	2.5	0	3.3	0	0.1	1.9	2.7	2.6	2.6	3.3	1.3	0	3.3	
STOP	3.3	3.0	3.3	3.3	3.3	3.3	3.2	3.0	3.2	3.3	0	3.3	2.6	3.0	3.0	2.9	3.3	1.3	0	3.3	
Ref No.	IC6201																				
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
PLAY	3.3	3.3	1.6	1.5	3.3	2.6	2.5	2.6	2.5	2.4	2.5	2.4	2.4	3.3	2.5	2.4	2.3	2.2	2.0	2.2	
STOP	3.3	3.3	1.6	1.5	3.3	3.0	2.9	3.3	3.3	2.8	2.8	2.7	2.6	3.3	2.7	2.7	2.8	0	0	0	
Ref No.	IC6201																				
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	
PLAY	2.5	1.9	0	1.8	1.8	3.3	0	0	3.3	3.0	1.1	2.7	3.3	3.3	3.2	3.3	3.3	0	0	3.2	
STOP	0	0	0	0	0	3.3	0	0	3.3	3.3	1.1	2.7	3.3	3.3	3.3	3.3	3.3	0	0	3.2	
Ref No.	IC6201																				
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	
PLAY	0	0	0	0	0	3.3	3.2	3.3	3.3	2.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0.1	0.1	0.1	
STOP	0	0	0	0	0	3.3	3.2	3.3	3.3	2.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0.1	0.1	0.1	
Ref No.	IC6201																				
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	
PLAY	0	3.3	3.3	2.6	2.6	2.1	2.6	2.6	2.6	2.7	2.8	0	2.6	2.5	0.1	2.6	2.7	2.7	2.8	2.8	
STOP	3.3	3.3	3.3	3.0	2.9	2.0	3.0	3.0	3.0	3.0	3.1	0	2.6	2.5	3.3	3.2	3.2	3.2	3.2	3.3	
Ref No.	IC6211										IC6221										
MODE	1	2	3	4	5						1	2	3	4	5	6	7	8			
PLAY	0	0	0	3.3	3.3						0	0	0	0	3.3	3.3	0	3.3			
STOP	0	0	0	3.3	3.3						0	0	0	0	3.3	3.3	0	3.3			

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Ref No.	IC6251										IC6261											
MODE	1	2	3	4	5	6	7				1	2	3	4	5							
PLAY	3.3	0	0	1.9	5.0	0	5.0				2.6	2.6	1.8	-	0							
STOP	3.3	0	0	1.9	5.0	0	5.0				2.6	2.6	1.8	-	0							
Ref No.	IC6301																					
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
PLAY	2.0	2.2	2.3	2.4	2.6	2.4	2.6	2.6	2.0	-	3.3	3.3	-	-	-	2.0	2.5	2.5	2.5	2.6		
STOP	2.6	0.1	2.8	2.8	2.8	2.7	2.8	2.7	2.6	-	3.3	3.3	-	-	-	2.5	2.8	2.8	2.8	3.0		
Ref No.	IC6301																					
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
PLAY	2.5	2.6	2.6	2.6	2.7	2.5	0	2.6	2.6	2.5	2.5	2.5	2.7	2.7	2.6	2.7	3.3	2.6	2.7	2.6		
STOP	2.9	3.0	2.9	3.0	3.0	2.9	0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.3	3.0	3.0	3.0		
Ref No.	IC6301																					
MODE	41	42	43	44	45	46	47	48														
PLAY	2.6	2.7	2.8	2.8	2.8	0	3.3	2.6														
STOP	3.0	3.0	3.1	3.1	3.1	0	3.3	2.7														
Ref No.	IC6521																					
MODE	1	2	3	4	5																	
PLAY	-	1.6	0	1.6	3.3																	
STOP	-	1.5	0	1.6	3.3																	
Ref No.	IC6561																					
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15							
PLAY	3.3	0	1.6	1.5	3.3	0	1.5	1.6	1.3	1.6	0	3.3	1.5	3.3	1.4	3.3						
STOP	3.2	0	1.6	1.5	3.3	0	1.5	1.5	1.3	1.5	0	3.3	1.4	3.3	1.4	3.3						
Ref No.	IC6801																					
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
PLAY	3.3	2.6	1.7	0	0	3.3	0	0	2.6	2.6	0	0	3.3	2.8	3.3	0	0	3.3	0	0		
STOP	3.3	2.6	1.7	0	0	3.3	0	0	3.0	3.0	0	0	3.3	1.5	3.3	0	1.8	3.3	0	0		
Ref No.	IC6801																					
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
STOP	3.3	0	3.3	3.3	3.3	3.3	3.3	0	0	2.6	3.2	0	1.7	0	2.6	3.3	3.3	0	3.3	3.3		
PLAY	0.4	0	1.5	3.3	3.3	1.4	2.5	1.6	1.6	2.6	3.2	0	1.7	0	2.9	3.3	3.3	0	3.3	3.3		
Ref No.	IC6801																					
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60		
PLAY	3.3	3.3	3.3	0	0	3.3	0	0	0	0	1.3	0	1.6	1.7	0	2.6	0	0	3.3	1.3		
STOP	3.0	3.3	3.3	0	0	3.3	0	0	0	0	1.3	0	1.6	1.7	0	2.6	0	0	3.3	1.3		
Ref No.	IC6801																					
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80		
PLAY	3.3	0	0	0	3.3	0	0	0	0	0	3.3	0	0	3.3	0	0	0	3.3	0	0		
STOP	3.3	0	0	0	3.3	0	0	0	0	0	3.3	0	0	3.3	0	0	0	3.3	0	0		
Ref No.	IC6802																					
MODE	1	2	3	4	5																	
PLAY	1.9	3.3	0	3.3	3.3																	
STOP	2.6	3.3	0	3.3	3.3																	
Ref No.																						
MODE																						
PLAY																						
STOP																						
Ref No.	Q2001			Q3221			Q3226			Q3231			Q3236									
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B				
STOP	0	5.0	1.0	1.3	0	0.7	1.3	0	0.6	1.1	0	0.5	0.9	0	0.3							
PLAY	0	5.0	0.6	1.3	0	0.7	1.0	0	0.3	0.7	0	0.1	0.8	0	0.1							
Ref No.	Q3241			Q5271			QR5221			QR5241			QR6215									
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B				
PLAY	1.1	0	0.3	0	0	3.3	3.3	3.3	0.1	3.3	3.2	0	0	3.2	0							
STOP	0.7	0	0.1	0	0	3.3	3.3	0.3	3.3	3.3	-0.2	3.3	0	3.2	0							

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IC2001																				
Ref No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
MODE																				
PLAY	0.3	3.3	3.3	0	3.2	3.3	0.3	0	0.8	0.5	0.8	1.0	0.9	1.3	1.1	1.0	1.0	1.8	0	1.8
STOP	0.2	3.3	3.3	0	3.3	3.3	0.3	0	0.8	0.5	0.6	0.7	0.8	0.7	0.7	0.8	0.7	1.8	0	1.8
IC2001																				
Ref No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
MODE																				
PLAY	0	1.1	1.4	2.5	1.6	2.7	2.3	2.7	2.4	1.9	3.3	0	3.3	3.3	3.2	2.6	1.6	1.2	1.3	2.5
STOP	0	0.8	0.7	3.0	1.4	3.0	2.4	2.9	3.0	2.6	3.2	0	3.3	3.3	3.2	3.0	1.6	0.8	1.2	2.9
IC2001																				
Ref No.	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
MODE																				
PLAY	2.2	2.1	1.9	1.9	1.4	0	3.2	0	3.3	3.3	0	0	0	0	3.3	0	3.3	1.8	0	0
STOP	2.3	2.4	2.3	2.4	1.4	0	3.2	0	3.3	3.3	3.3	0	0	0	3.3	3.3	3.3	1.8	0	0
IC2001																				
Ref No.	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
MODE																				
PLAY	3.3	3.3	3.3	0.2	1.6	1.4	1.6	1.5	1.4	3.3	3.3	0	3.3	3.3	0	1.8	0	3.3	1.5	1.5
STOP	3.2	3.3	0	0.2	1.6	1.3	1.6	1.6	2.7	0	0	0	3.3	3.3	0	1.8	0	3.3	1.5	1.5
IC2001																				
Ref No.	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
MODE																				
PLAY	0	0	0	1.6	0	1.6	1.6	3.3	0	1.6	1.6	0	0	0	0	0	1.3	1.6	3.3	1.6
STOP	0	1.0	0	1.6	0	1.6	1.6	3.2	0	1.6	1.6	0	0	0	0	0	1.3	1.6	3.2	0
IC2001																				
Ref No.	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
MODE																				
PLAY	1.0	0	1.5	2.2	2.9	1.6	1.5	1.6	3.3	1.6	1.6	1.9	0	1.7	1.6	3.3	1.7	1.6	2.3	2.3
STOP	0	0	1.5	2.2	2.9	1.6	1.5	1.6	3.3	1.6	1.6	2.1	0	1.6	1.6	3.3	1.6	1.6	1.6	1.6
IC2001																				
Ref No.	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
MODE																				
PLAY	2.0	1.6	1.6	0.2	3.3	0	0	0	0	0	0	3.3	0	3.3	3.3	1.7	3.3	0	3.3	0
STOP	1.6	1.6	0.2	0.2	3.3	0	0	0	0	0	0	3.3	3.3	0	3.3	3.3	1.7	3.3	0	3.3
IC2001																				
Ref No.	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
MODE																				
PLAY	0.4	3.3	3.3	0	0	1.5	3.3	3.3	2.1	0	2.2	1.8	0	0	0	3.3	0	2.3	0	2.1
STOP	0	3.3	3.3	0	0	1.5	3.3	3.3	0	0	0	1.8	0	0	0	3.3	0	0	0	0
IC2001																				
Ref No.	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176				
MODE																				
PLAY	0	3.3	0	2.3	0	2.2	0	2.1	3.2	0	0	2.3	0	3.3	3.3	3.2				
STOP	0	3.3	0	0	0	0	0	0	3.3	0	0	0	0	3.3	3.3	3.3				
IC2101																				
Ref No.	1	2	3	4	5															
MODE																				
PLAY	1.6	1.6	0	0	4.9															
STOP	1.6	1.6	0	0	5.0															
IC3001																				
Ref No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
MODE																				
PLAY	3.3	0.2	1.5	0.2	1.8	1.6	0.2	1.5	0	1.6	3.3	3.3	3.2	0	0	1.8	3.1	3.2	3.2	0
STOP	3.3	0.1	1.1	0.1	1.8	1.1	0.1	1.0	0	1.1	3.3	3.3	3.3	3.2	0	0	1.8	3.2	3.2	0
IC3001																				
Ref No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
MODE																				
PLAY	3.2	3.2	2.7	3.2	3.3	1.6	2.4	2.6	2.2	2.6	0	1.7	2.5	1.4	1.0	1.0	1.8	1.0	1.1	1.3
STOP	3.2	3.2	3.0	3.2	3.3	1.6	3.0	2.9	2.5	3.0	0	1.4	2.9	0.7	0.7	0.7	1.8	0.8	0.6	0.7
IC3001																				
Ref No.	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
MODE																				
PLAY	0.9	1.1	-	0.8	0.5	0.9	2.0	3.3	1.9	2.1	2.1	2.5	0	1.4	1.2	1.5	1.8	1.8	1.6	1.2
STOP	0.7	0.7	0	0.6	0.5	1.8	2.3	3.3	2.3	2.4	2.3	2.9	0	1.3	0.8	1.4	1.8	2.4	1.2	0
IC3001																				
Ref No.	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
MODE																				
PLAY	3.3	1.1	2.5	0	1.0	1.3	2.3	3.3	0.5	1.7	3.2	0	0.7	0.9	1.0	1.0	1.8	0.7	0.6	0.5
STOP	3.3	0	0	0	0	0	0	3.3	0	1.6	3.3	0	0	0	0	0	1.8	0	0	0
IC3001																				
Ref No.	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
MODE																				
PLAY	0.7	0	1.6	1.2	3.3	1.4	1.6	1.6	0	1.2	0	0	3.3	0	0	1.5	1.8	0	1.8	1.6
STOP	0	0	1.6	0	3.3	1.3	1.6	1.6	0	0	0	0	3.3	0	0	1.5	1.8	0	1.8	1.6
IC3001																				
Ref No.	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
MODE																				
PLAY	3.3	0.3	0	0	3.3	3.3	1.8	0	3.3	0	0	3.3	0.6	0.6	2.3	0.4	3.3	0.9	0.9	2.3
STOP	3.3	0.4	0	0	3.3	3.3	1.8	0	3.3	0	0	3.3	0.6	0.6	2.3	0.4	3.3	0.9	0.9	2.3
IC3001																				
Ref No.	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
MODE																				
PLAY	0.6	0	0.6	0.6	2.3	0.4	3.3	1.3	1.3	2.2	0.6	0	0	0	0	1.5	0	0	0	0
STOP	0.6	0	0.6	0.6	2.3	0.4	3.3	1.3	1.3	2.2	0.4	0	0	0	0	1.5	0	0	0	0
IC3001																				
Ref No.	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
MODE																				
PLAY	3.3	0	0	3.2	3.0	1.8	1.2	1.2	1.1	1.2	0	1.5	1.3	1.1	1.8	3.3	0	2.4	2.5	3.3
STOP	3.3	0	0	3.2	3.0	1.8	1.3	0.6	0.6	0.7	0	1.9	0.3	0.3	1.2	3.3	0	2.8	2.8	3.3
IC3001																				
Ref No.	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
MODE																				
PLAY	2.7	2.5	0	2.5	2.5	3.3	2.5	2.6	0	2.5	2.3	3.3	2.4	1.8	3.1	0	2.6	3.1	3.3	2.5
STOP	2.4	2.6	0	2.4	2.7	3.3	2.9	2.7	0	2.6	3.0	3.3	2.6	1.8	2.6	0	2.6	2.6	3.3	2.9
IC3001																				
Ref No.	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
MODE																				
PLAY	2.8	0	1.7	1.8	1.7	0	3.3	3.3	1.9	0.3	1.8	1.9	3.1	0	3.0	3.1	3.3	1.4	2.9	0
STOP	2.6	0	1.7	1.8	1.7	0	3.3	3.3	2.4	0	1.8	2.4	3.2	0	3.1	3.2	3.3	1.4	3.1	0
IC3001																				
Ref No.	201	202	203	204	205	206	207	208												
MODE																				
PLAY	0	1.8	1.3	0	3.3	0	1.4	0												
STOP	0	1.8	1.0	0	3.3	0	1.1	0												
IC3061																				
Ref No.	1	2																		

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Ref No.	IC3061																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54						
PLAY	0	2.8	3.3	2.7	2.6	0	2.6	2.8	3.3	2.3	2.5	0	2.6	0						
STOP	0	2.9	3.3	2.6	2.6	0	2.6	2.9	3.3	2.4	2.4	0	2.8	0						
Ref No.	IC3071																			
MODE	1	2	3	4	5	6														
PLAY	4.8	0	4.8	1.2	0	3.3														
STOP	4.9	0	4.9	1.2	0	3.3														
Ref No.	IC3261																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
PLAY	1.3	1.3	1.2	1.0	1.0	0	0	0	0	0	0	1.1	1.2	1.1	1.3	4.8				
STOP	1.1	1.0	1.2	1.1	1.1	0	0	0	0	0	0	1.1	1.2	1.1	1.0	4.9				
Ref No.	IC3701																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	3.3	0	0	0	0	0	0	1.2	1.2	1.3	1.3	1.5	1.3	1.2	2.0	2.4	0	0	0	0
STOP	3.3	0	0	0	0	0	0	1.3	0.6	0.7	0.7	2.0	0.3	0.3	1.3	2.5	0	0	0	0
Ref No.	IC3701																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	0	0	0	0	0	0	0	0	0	0	0	0	3.3	0	0	0	0	0	0	1.5
STOP	0	0	0	0	0	0	0	0	0	0	0	0	3.3	0	0	0	0	0	0	1.5
Ref No.	IC3701																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
PLAY	0	2.4	0	0	0	0	3.3	3.3	3.2	0	0	3.3	3.3	2.4	0	3.3	3.3	0	0	3.3
STOP	0	2.5	0	0	0	0	3.3	3.3	3.2	0	0	3.3	3.3	2.5	0	3.3	3.3	0	0	3.3
Ref No.	IC3701																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
PLAY	0	3.3	3.3	0	1.9	0.6	1.4	2.1	1.3	1.3	1.2	1.2	3.3	0	0.6	0	0	0	0	0
STOP	0	3.3	3.3	0	0	0	0	3.2	0.5	0.5	0.5	0.9	3.3	0	0	0	0	0	0	0
Ref No.	IC3701																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
PLAY	0	0	0	3.3	0	0	0	0	3.0	2.7	3.2	3.0	2.0	1.3	3.3	0	1.2	1.3	1.2	1.2
STOP	0	0	0	3.3	0	0	0	0	3.0	2.7	3.2	3.0	2.7	0.6	3.3	0	0.6	0.9	0.9	0.9
Ref No.	IC3701																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
PLAY	1.2	1.3	0.8	0.6	3.3	0	2.4	0	0	0	0.1	0	0	3.3	0	0.7	1.6	1.7	3.1	2.5
STOP	0.6	1.8	0.4	0.3	3.3	0	2.5	0	0	0	0.1	0	0	3.3	0	0.7	1.6	1.7	3.1	2.5
Ref No.	IC3701																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
PLAY	2.5	1.3	3.3	0	2.5	0.7	0.7	1.6	1.6	1.6	1.6	0	1.6	2.5	0.7	0.7	3.3	0	0	0
STOP	2.5	1.3	3.3	0	2.5	0.7	0.7	1.6	1.6	1.6	1.6	0	1.6	2.5	0.7	0.7	3.3	0	0	0
Ref No.	IC3701																			
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
PLAY	1.1	1.1	1.1	3.3	0	1.1	1.5	1.1	1.1	1.5	3.3	0	0	0	1.2	1.2	1.1	2.4	0	1.5
STOP	1.3	0.5	0.6	3.3	0	0.6	2.1	0.3	0.2	1.2	3.2	0	0	0	1.3	0.6	0.6	2.5	0	0.7
Ref No.	IC3701																			
MODE	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176				
PLAY	1.6	1.0	1.4	1.3	0	0	3.3	0	1.2	1.2	1.1	1.2	1.6	0.8	1.1	1.7				
STOP	2.1	0.3	0.3	1.2	0	0	3.3	0	1.3	0.5	0.6	0.7	2.1	0.3	0.2	1.2				
Ref No.	IC3761																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	3.3	0	3.3	0	1.2	0	1.1	1.1	3.1	1.1	1.6	0	1.1	-	3.3	0	3.1	2.5	2.5	0
STOP	3.2	0	3.2	0	1.2	0	0.5	0.6	3.2	0.7	2.1	0	0.3	-	3.3	0	3.1	2.5	2.5	0
Ref No.	IC3761																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	0	1.3	0	2.5	0.7	0.7	2.5	0	3.3	-	1.3	0	2.0	1.7	3.3	1.1	0	0	0	1.2
STOP	-	1.3	0	2.5	0.7	0.7	0.7	0	3.3	-	2.1	0	0.3	0.2	3.3	1.2	0	0	0	1.2
Ref No.	IC3761																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
PLAY	3.3	1.2	3.3	0	1.1	0	1.2	1.6	3.3	1.0	1.1	0	1.5	0	3.3	0	-	0	0	1.6
STOP	3.3	0.5	3.3	0	0.6	0	0.7	2.1	3.3	0.3	0.3	0	1.2	0	3.3	0	-	0	0	1.6
Ref No.	IC3761																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
PLAY	1.6	1.6	1.6	1.6	0.7	0.7	3.3	1.7	-	-	0	0	0	1.3	3.3	1.8	0	0	0	1.2
STOP	1.6	1.6	1.6	1.6	0.7	0.7	3.3	1.6	-	-	0	0	-	0.3	3.3	1.2	0	0	0	1.3
Ref No.	IC3761																			
MODE	81	82	83	84	85	86														
PLAY	3.3	1.3	1.1	0	0.9	0														
STOP	3.3	0.5	0.6	0	0.6	0														
Ref No.	IC3901																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	3.3	0	3.3	1.2	1.3	1.2	1.4	2.0	1.3	1.3	1.6	3.3	0	3.3	0	0	0	0	0	0
STOP	3.3	0	3.3	0.9	0.5	0.5	0.5	3.2	0.1	0	0	3.3	0	3.3	0	0	0	0	0	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
PLAY	0	0	0	3.3	1.6	0	3.0	3.2	3.0	3.2	3.2	0.5	0	0.6	3.3	0.5	1.7	1.6	1.6	3.2
STOP	0	0	0	3.3	1.6	0	3.0	3.2	3.0	3.2	3.3	0.5	0	0.4	3.3	0.5	1.7	1.6	1.6	3.2
Ref No.	IC3901																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52								
PLAY	3.3	2.1	1.2	1.3	0.9	1.0	1.1	1.1	1.2	0	3.3	0								
STOP	3.3	2.7	0.6	0.6	0.9	0.9	0.9	0.6	1.8	0	3.3	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
PLAY	0	0	0	3.3	1.1	0	1.3	0.9	1.0	0.8	0.5	1.6	3.3	0	0	1.6	3.3	3.2	3.3	3.3
STOP	0	0	0	3.3	0	0	0	0	0	0	0	1.6	3.2	0	0	1.6	3.3	0	3.3	3.3
Ref No.	IC4001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.3	0	3.3	0	0.7	0.6	0	0.1	0.1	0
STOP	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.3	0	3.3	0	0.1	0.1	0	0.2	0.2	0
Ref No.	IC4001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
PLAY	0.1	1.6	0.1	1.6	0.1	0.1	1.2	0.1	0	0	0	1.6	0.1	0	3.3	3.3	0	0	0.1	0.1
STOP	0.2	1.6	0.2	1.6	0.2	0.2	0	0.2	0	0	0	1.6	0.2	0	3.3	3.3	0	0	0.2	0.3

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Ref No.	IC4001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
PLAY	3.3	3.3	3.3	3.2	3.2	0	3.2	1.6	0	0	1.5	0	1.6	1.6	3.3	0	0	3.2	0	3.3
STOP	3.3	3.3	3.2	3.2	3.2	0	3.2	1.6	0	0	1.5	0	1.6	1.6	3.3	0	0	3.2	0	3.3
Ref No.	IC4001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
PLAY	0	1.4	3.3	3.3	0.1	3.3	0	3.3	3.3	0	1.6	3.3	0	1.5	0	0.6	1.5	3.2	1.9	2.0
STOP	0	1.3	3.3	3.3	0.4	3.3	0	3.3	3.3	0	1.6	3.3	0	1.6	0	0.5	1.5	3.2	0	0
Ref No.	IC4001																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
PLAY	2.1	2.1	2.4	1.4	0.9	0	3.1	0	0	0	0	3.2	1.2	1.6	1.8	1.6	1.4	1.3	2.3	0
STOP	0	0	0	0	0	0	3.1	0	0	0	0	3.2	0	0	0	0	0	0	0	0
Ref No.	IC4001																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
PLAY	1.2	1.4	2.3	0	1.6	0	2.6	0	3.2	3.2	2.4	2.6	2.1	2.5	0	1.6	2.5	1.4	1.1	1.0
STOP	0	0	0	0	1.6	0	0	0	3.2	3.2	0	0	0	0	0	0	0	0	0	0
Ref No.	IC4001																			
MODE	141	142	143	144																
PLAY	1.1	1.6	0	0																
STOP	0	1.6	0	0																
Ref No.	IC4011										IC4021									
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5					
PLAY	0.8	0.3	2.5	0	0.8	0	0	3.3			3.3	0	3.3	1.3	1.6					
STOP	0	0.2	3.3	0	0	0	0	3.3			3.3	0	3.3	1.3	1.6					
Ref No.	IC4031																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
PLAY	0	1.6	0	1.6	1.2	0.2	1.2	0	1.6	0	1.6	1.6	0	1.6	0	3.3				
STOP	0	1.6	0	1.6	0	0.2	0	0	1.6	0	1.6	1.6	0	1.6	0	3.3				
Ref No.	IC4041										IC4051									
MODE	1	2	3	4	5						1	2	3	4	5					
PLAY	3.2	3.3	0	3.3	3.3						2.5	3.2	0	2.5	3.3					
STOP	3.2	3.3	0	3.2	3.3						3.0	3.3	0	3.0	3.3					
Ref No.	IC4061								IC4091					IC4092						
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5		1	2	3	4	5
PLAY	1.6	2.6	0.7	0	2.6	3.3	3.3	3.3		-	1.9	0	1.5	3.3		1.3	3.3	0	3.3	3.3
STOP	1.6	3.0	0.3	0	3.0	3.3	3.3	3.3		-	2.5	0	0.8	3.3		0.8	3.3	0	3.3	3.3
Ref No.	IC4201																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
PLAY	1.6	1.2	1.7	0	3.3	4.9	2.5	2.4	0	2.5	3.2	0	3.3	2.7	3.3	1.6				
STOP	1.6	0	1.6	0	3.3	4.9	2.5	2.4	0	2.4	0	0	3.3	2.7	3.3	1.6				
Ref No.	IC4211																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	3.2	3.2	-0.1	-0.1	-0.1	-0.1	-	-	2.4	2.5	2.4	2.4	2.4	2.5	2.4	2.5	-0.1	4.9	-0.1	2.3
STOP	0	0	0	0	0	0	-	-	2.4	2.5	2.4	2.5	2.4	2.5	2.4	2.5	-0.1	4.9	-0.1	2.3
Ref No.	IC4211																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	-0.1	4.9	-0.1	4.9	-0.1	4.9	-0.1	4.9	-	3.2	0.8	3.2	3.3	3.2	2.7	3.2	3.2	1.6	1.5	1.6
STOP	-0.1	4.9	-0.1	4.9	-0.1	4.9	-0.1	4.9	-	0	0	0	3.3	3.3	2.7	3.2	3.2	1.6	1.5	1.6
Ref No.	IC5201																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	0.5	3.1	0	4.8	1.4	0.1	1.6	1.6	1.6	-	1.6	-	2.3	1.6	1.6	0	3.2	3.3	0	0
STOP	0	4.8	0	4.8	1.6	0.2	1.6	1.6	1.6	0.1	1.6	-	1.6	1.6	1.6	0	3.2	3.3	0	0
Ref No.	IC5201																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	0	0	3.3	0	3.2	0.1	0.5	0	1.3	1.3	1.8	1.2	3.2	1.8	1.8	1.8	1.1	1.4	0	0.2
STOP	3.2	0	3.2	0	3.2	0.1	0.5	0	1.1	1.1	2.0	1.2	3.2	1.8	1.8	1.8	1.1	0.6	0	0.2
Ref No.	IC5201																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
PLAY	0	0	1.7	0.9	-	2.1	2.1	2.0	2.3	4.9	2.2	2.2	2.3	2.3	2.2	1.8	0.1	2.3	2.3	2.3
STOP	0	0	1.7	0.9	-	2.1	2.1	1.6	1.6	4.8	2.2	2.2	2.2	2.2	2.2	1.8	0.1	2.2	2.2	2.2
Ref No.	IC6201																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	3.2	2.5	3.2	3.2	3.2	3.2	3.1	2.4	0	3.2	0	0	1.8	2.4	2.6	2.1	3.2	1.5	0	3.2
STOP	3.2	0	0	0	3.2	3.2	0	3.2	3.2	3.2	0	3.2	0	0	0	0	3.2	1.5	0	3.2
Ref No.	IC6201																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	3.2	3.2	1.6	1.5	3.2	2.6	1.6	2.5	1.4	1.1	1.1	1.1	1.1	3.2	1.4	0.9	1.1	0.9	0.5	0.8
STOP	3.2	3.2	1.6	1.5	3.2	0	0	0	0	0	0	0	0	3.2	0	0	0	0	0	0
Ref No.	IC6201																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
PLAY	2.4	1.8	0	1.8	1.8	3.2	0	0	3.2	2.9	1.0	2.7	3.2	3.2	3.2	3.2	3.2	0	0	3.2
STOP	0	0	0	0	0	3.2	0	0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	0	0	3.2
Ref No.	IC6201																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
PLAY	0	0	0	0	0	3.2	3.2	3.2	3.2	2.7	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.1	3.2	3.3
STOP	0	0	0	0	0	3.2	3.2	3.2	3.2	2.7	3.2	3.2	3.2	3.2	3.2	3.2	3.2	0.1	3.2	0
Ref No.	IC6201																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
PLAY	3.2	3.2	3.3	1.9	1.9	2.1	2.1	2.5	1.4	1.2	1.6	0	1.9	1.5	1.4	1.2	2.4	1.1	1.4	2.4
STOP	3.2	3.2	3.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ref No.	IC6211										IC6221									
MODE	1	2	3	4	5						1	2	3	4	5	6	7	8		
PLAY	0	0	0	3.2	3.2						0	0	0	0	3.2	3.2	0	3.2		
STOP	0	0	0	3.2	3.3						0	0	0	0	3.3	3.3	0	3.3		

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**A, R models**

Ref No.	IC6251										IC6261									
MODE	1	2	3	4	5	6	7				1	2	3	4	5					
PLAY	3.3	0	0	1.9	4.9	0	4.9				2.5	2.5	1.8	-	0					
STOP	3.3	0	0	1.9	4.9	0	4.9				2.5	2.5	1.8	-	0					
Ref No.	IC6301																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	0.5	0.8	0.9	0.9	1.3	1.0	1.0	1.0	1.8	-	3.2	3.2	-	-	0.2	1.8	2.5	1.0	1.4	2.5
STOP	0.5	0.6	0.7	0.7	0.7	0.7	0.8	0.7	2.5	-	3.3	3.3	-	-	0.2	2.5	2.7	0.7	0.7	3.0
Ref No.	IC6301																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	1.7	2.5	2.1	2.7	2.4	2.4	0	2.6	1.9	1.8	2.0	1.5	2.1	1.2	2.1	1.1	3.3	2.6	2.3	1.3
STOP	1.4	3.0	2.5	2.9	2.9	2.9	0	3.0	2.3	2.4	2.2	1.2	2.4	0.8	2.3	0.7	3.3	2.9	2.9	1.3
Ref No.	IC6301																			
MODE	41	42	43	44	45	46	47	48												
PLAY	1.2	1.2	1.4	1.6	2.4	0	3.3	0.8												
STOP	0.7	0.8	0.7	1.5	2.9	0	3.2	0.8												
Ref No.	IC6521																			
MODE	1	2	3	4	5															
PLAY	-	1.5	0	1.7	3.3															
STOP	-	1.5	0	1.7	3.3															
Ref No.	IC6561																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
PLAY	3.3	0	1.6	1.4	3.3	0	1.5	1.6	1.3	1.6	0	3.2	1.5	3.3	1.6	3.2				
STOP	3.3	0	1.6	1.4	3.3	0	1.5	1.6	1.3	1.6	0	3.2	1.5	3.3	1.6	3.2				
Ref No.	IC6801																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	3.3	2.5	1.7	0	0	3.3	0	0	2.2	1.9	0	0	3.3	2.4	3.3	0	2.2	3.3	0	0
STOP	3.3	2.5	1.7	0	0	3.3	0	0	2.6	2.3	0	0	3.3	2.3	3.3	0	2.3	3.3	0	0
Ref No.	IC6801																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	2.4	0	1.4	3.3	3.3	1.5	1.6	2.6	2.3	2.5	3.2	-	1.7	0	2.2	3.3	3.2	0	3.3	3.3
STOP	2.7	0	0	3.3	3.3	0	0	0	0	2.5	3.2	-	1.7	0	0	3.3	0	0	3.3	3.3
Ref No.	IC6801																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
PLAY	2.6	3.3	3.3	0	0	3.3	0.8	0	3.3	0	1.5	0	1.6	1.6	0	2.5	0	0	3.3	1.5
STOP	0	3.2	3.1	0	0	3.3	0	0	3.3	0	1.5	0	1.6	1.6	0	2.5	0	0	3.3	1.5
Ref No.	IC6801																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
PLAY	3.3	0	0	0	3.3	1.6	1.6	0	0	0	3.3	0	0	3.3	0	0	0	3.3	0	0
STOP	3.3	0	0	0	3.3	1.6	1.6	0	0	0	3.3	0	0	3.3	0	0	0	3.3	0	0
Ref No.	IC6802																			
MODE	1	2	3	4	5															
PLAY	1.8	3.2	0	3.3	3.3															
STOP	2.5	3.3	0	3.3	3.3															
Ref No.	Q2001			Q3101			Q3111			Q3116			Q3921							
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B					
PLAY	0	4.9	0.1	1.3	0	0.6	1.1	0	0.4	1.0	0	0.3	1.2	0	0.5					
STOP	0	4.9	0.1	1.0	0	0.4	Ref No.	0	0.4	1.1	0	0.4	1.2	0	0.5					
Ref No.	Q3926			Q3931			Q5271													
MODE	E	C	B	E	C	B	E	C	B											
PLAY	1.1	0	0.3	1.4	0	0.6	0	0	3.2											
STOP	1.2	0	0.5	1.2	0	0.4	0	0	3.2											
Ref No.	QR3261			QR5221			QR5241			QR6215										
MODE	E	C	B	E	C	B	E	C	B	E	C	B								
PLAY	0	0	3.2	3.3	3.2	0.1	3.3	3.2	0	0	3.2	0								
STOP	0	0	3.2	3.3	0.3	3.3	3.3	-0.4	3.3	0	3.2	0								

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### 4. INTERMEDIATE P.C.B.

Ref No.	IC2501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	1.6	1.6	1.6	2.3	2.3	2.2	0	4.8	3.3	0	2.8	2.6	2.8	2.8	4.2	4.2	5.9	2.4	0	3.2
STOP	1.6	1.6	1.8	2.0	2.0	1.6	0	4.9	3.3	0	2.8	2.8	2.8	2.8	4.2	4.2	4.2	4.2	0	3.2
Ref No.	IC2501																			
MODE	21	22	23	24	25	26	27	28												
PLAY	8.8	8.7	1.8	1.6	1.6	1.6	3.3	3.1												
STOP	8.9	8.8	1.6	1.6	1.6	1.6	3.3	3.2												
Ref No.	Q5111				Q5115															
MODE	E	C	B		E	C	B													
PLAY	5.0	2.2	4.6		5.0	1.2	4.6													
STOP	4.0	0.9	3.3		5.0	1.2	4.6													

### 5. FRONT 1 P.C.B.

Ref No.	IC6101			QR6101			QR6102													
MODE	1	2	3	E	C	B	E	C	B											
PLAY	3.2	3.3	0	0	5.0	0	0	5.0	0											
STOP	3.2	3.3	0	0	5.0	0	0	5.0	0											

### 6. SCART P.C.B.

**B, G models**

Ref No.	IC3801															
MODE	1	2	3	4	5	6										
PLAY	0	2.2	5.0	1.9	0	1.8										
STOP	0	1.6	5.0	1.9	0	1.5										
Ref No.	IC3841															
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PLAY	0.7	0.7	0	0.5	0.5	0	0	0	0	0	0	0.4	0	0.4	0.6	5.0
STOP	0.7	0.3	0	0	0.3	0	0	0	0	0	0	0.3	0	0.3	0.3	5.0
Ref No.	IC3842															
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PLAY	3.7	0.3	0	0.5	0	-	0.5	0	2.7	2.9	-	2.7	2.9	2.7	2.9	5.0
STOP	3.7	0	0	0.3	0	-	0.3	0	2.7	2.9	-	2.7	2.9	2.7	2.9	5.0
Ref No.	IC3851															
MODE	1	2	3	4	5	6										
PLAY	5.0	4.9	5.0	0	0	0										
STOP	5.0	4.9	5.0	0	0	0										
Ref No.																
MODE																
PLAY																
STOP																
Ref No.	Q3811			Q3821			Q3831			Q3851						
MODE	E	C	B		E	C	B	E	C	B	E	C	B			
PLAY	0.3	5.0	1.0		0.7	5.0	1.3	0.4	5.0	1.2		11.8	12.5	12.4		
STOP	0.3	5.0	0.9		0.3	5.0	0.9	0.3	5.0	0.9		11.6	12.3	12.2		
Ref No.	QR3841			QR3842			QR3851			QR3852			QR3853			
MODE	E	C	B		E	C	B	E	C	B	E	C	B	E	C	B
PLAY	0	0	3.1		0	3.7	0	0	12.3	0	0	0	5.0	11.8	11.8	0
STOP	0	0	3.1		0	3.7	0	0	0	12.2	0	0	5.0	11.7	11.6	0

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# PARTS LIST

## ■ ELECTRICAL PARTS

### ■ WARNING

Components having special characteristics are marked  $\triangle$  and must be replaced with parts having specifications equal to those originally installed.

- Carbon resistors (1/6W or 1/4W) and chip carbon resistors are not included in the ELECTRICAL PARTS List. For the parts No. of them, refer to last two pages.

### ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS:

C.A.EL.CHP	: CHIP ALUMI.ELECTROLYTIC CAP	L.EMIT	: LIGHT EMITTING MODULE
C.CE	: CERAMIC CAP	LED.DSPLY	: LED DISPLAY
C.CE.ARRAY	: CERAMIC CAP ARRAY	LED.INFRD	: LED,INFRARED
C.CE.CHP	: CHIP CERAMIC CAP	MODUL.RF	: MODULATOR,RF
C.CE.ML	: MULTILAYER CERAMIC CAP	PHOT.CPL	: PHOTO COUPLER
C.CE.M.CHP	: CHIP MULTILAYER CERAMIC CAP	PHOT.INTR	: PHOTO INTERRUPTER
C.CE.SAFTY	: RECOGNIZED CERAMIC CAP	PHOT.RFLCT	: PHOTO REFLECTOR
C.CE.TUBLR	: CERAMIC TUBULAR CAP	PIN.TEST	: PIN,TEST POINT
C.CE.SMI	: SEMI CONDUCTIVE CERAMIC CAP	PLST.RIVET	: PLASTIC RIVET
C.EL	: ELECTROLYTIC CAP	R.ARRAY	: RESISTOR ARRAY
C.MICA	: MICA CAP	R.CAR.	: CARBON RESISTOR
C.ML.FLM	: MULTILAYER FILM CAP	R.CAR.CHP	: CHIP RESISTOR
C.MP	: METALLIZED PAPER CAP	R.CAR.FP	: FLAME PROOF CARBON RESISTOR
C.MYLAR	: MYLAR FILM CAP	R.FUS	: FUSABLE RESISTOR
C.MYLAR.ML	: MULTILAYER MYLAR FILM CAP	R.MTL.CHP	: CHIP METAL FILM RESISTOR
C.PAPER	: PAPER CAPACITOR	R.MTL.FLM	: METAL FILM RESISTOR
C.PLS	: POLYSTYRENE FILM CAP	R.MTL.OXD	: METAL OXIDE FILM RESISTOR
C.POL	: POLYESTER FILM CAP	R.MTL.PLAT	: METAL PLATE RESISTOR
C.POLY	: POLYETHYLENE FILM CAP	RSNR.CE	: CERAMIC RESONATOR
C.PP	: POLYPROPYLENE FILM CAP	RSNR.CRYS	: CRYSTAL RESONATOR
C.TNTL	: TANTALUM CAP	R.TW.CEM	: TWIN CEMENT FIXED RESISTOR
C.TNTL.CHP	: CHIP TANTALUM CAP	R.WW	: WIRE WOUND RESISTOR
C.TRIM	: TRIMMER CAP	SCR.BND.HD	: BIND HEAD B-TITE SCREW
CN	: CONNECTOR	SCR.BW.HD	: BW HEAD TAPPING SCREW
CN.BS.PIN	: CONNECTOR,BASE PIN	SCR.CUP	: CUP TITE SCREW
CN.CANNON	: CONNECTOR,CANNON	SCR.TERM	: SCREW TERMINAL
CN.DIN	: CONNECTOR,DIN	SCR.TR	: SCREW,TRANSISTOR
CN.FLAT	: CONNECTOR,FLAT CABLE	SUPRT.PCB	: SUPPORT,P.C.B.
CN.POST	: CONNECTOR,BASE POST	SURG.PRTCT	: SURGE PROTECTOR
COIL.MX.AM	: COIL,AM MIX	SW.TACT	: TACT SWITCH
COIL.AT.FM	: COIL,FM ANTENNA	SW.LEAF	: LEAF SWITCH
COIL.DT.FM	: COIL,FM DETECT	SW.LEVER	: LEVER SWITCH
COIL.MX.FM	: COIL,FM MIX	SW.MICRO	: MICRO SWITCH
COIL.OUTPT	: OUTPUT COIL	SW.PUSH	: PUSH SWITCH
DIOD.ARRAY	: DIODE ARRAY	SW.RT.ENC	: ROTARY ENCODER
DIODE.BRG	: DIODE BRIDGE	SW.RT.MTR	: ROTARY SWITCH WITH MOTOR
DIODE.CHP	: CHIP DIODE	SW.RT	: ROTARY SWITCH
DIODE.SHOT	: SCHOTTKY BARRIER DIODE	SW.SLIDE	: SLIDE SWITCH
DIODE.VAR	: VARACTOR DIODE	TERM.SP	: SPEAKER TERMINAL
DIOD.Z.CHP	: CHIP ZENER DIODE	TERM.WRAP	: WRAPPING TERMINAL
DIODE.ZENR	: ZENER DIODE	THRMST.CHP	: CHIP THERMISTOR
DSCR.CE	: CERAMIC DISCRIMINATOR	TR.CHP	: CHIP TRANSISTOR
FER.BEAD	: FERRITE BEADS	TR.DGT	: DIGITAL TRANSISTOR
FER.CORE	: FERRITE CORE	TR.DGT.CHP	: CHIP DIGITAL TRANSISTOR
FET.CHP	: CHIP FET	TRANS	: TRANSFORMER
FL.DSPLY	: FLUORESCENT DISPLAY	TRANS.PULS	: PULSE TRANSFORMER
FLTR.CE	: CERAMIC FILTER	TRANS.PWR	: POWER TRANSFORMER ASS'Y
FLTR.COMB	: COMB FILTER MODULE	TUNER.AM	: TUNER PACK,AM
FLTR.LC.RF	: LC FILTER,EMI	TUNER.FM	: TUNER PACK,FM
GND.MTL	: GROUND PLATE	TUNER.PK	: FRONT-END TUNER PACK
GND.TERM	: GROUND TERMINAL	VR	: ROTARY POTENTIOMETER
HOLDER.FUS	: FUSE HOLDER	VR.MTR	: POTENTIOMETER WITH MOTOR
IC.PRTCT	: IC PROTECTOR	VR.SW	: POTENTIOMETER WITH ROTARY SW
JUMPER.CN	: JUMPER CONNECTOR	VR.SLIDE	: SLIDE POTENTIOMETER
JUMPER.TST	: JUMPER,TEST POINT	VR.TRIM	: TRIMMER POTENTIOMETER
L.DTCT	: LIGHT DETECTING MODULE		

**Note)** Those parts marked with “#” are not included in the P.C.B. ass'y.

P.C.B.

Schm Ref.	PART NO.	Description	Remarks	Markets
	AAX44630	P.C.B. ASS'Y	MODULE	GB
	AAX44640	P.C.B. ASS'Y	MODULE	AR
	AAX44560	P.C.B. ASS'Y	POWER	GB
	AAX44570	P.C.B. ASS'Y	POWER	A
	AAX44580	P.C.B. ASS'Y	POWER	R
	AAX44530	P.C.B. ASS'Y	TERMINAL	GB
	AAX44540	P.C.B. ASS'Y	TERMINAL	A
	AAX44550	P.C.B. ASS'Y	TERMINAL	R
	AAX44520	P.C.B. ASS'Y	SCART	GB
	AAX44590	P.C.B. ASS'Y	FRONT 1	GB
	AAX44600	P.C.B. ASS'Y	FRONT 1	AR
	AAX44610	P.C.B. ASS'Y	FRONT 2	GB
	AAX44620	P.C.B. ASS'Y	FRONT 2	AR
	AAX45650	P.C.B. ASS'Y	INTERMEDIATE	
C1117	FX611470	C.EL	1000uF 6.3V	ECA0JM102
C1121	UR829100	C.EL	1000uF 10V	
C1125	FX611470	C.EL	1000uF 6.3V	ECA0JM102
C3509	FX611470	C.EL	1000uF 6.3V	ECA0JM102
C3511	FX611470	C.EL	1000uF 6.3V	ECA0JM102
C3513	FX611470	C.EL	1000uF 6.3V	ECA0JM102
C3501	UR818220	C.EL	220uF 6.3V	
C3515, 16	UR818330	C.EL	330uF 6.3V	
C4312	NX703890	C.EL	470uF 10V	ECA1APX471
C4307-10	AAX44690	C.EL	47uF 16V	ECA1CAD470XB
C3581, 82	NX702010	C.EL	220uF 16V	ECA1CM221
C1133	UR848100	C.EL	100uF 25V	
C1143	UR848100	C.EL	100uF 25V	
C4902	UR848100	C.EL	100uF 25V	
C4913	UR848100	C.EL	100uF 25V	
C4922	UR848100	C.EL	100uF 25V	
C4932	UR848100	C.EL	100uF 25V	
C4924	UR848220	C.EL	220uF 25V	
C4934	UR848220	C.EL	220uF 25V	
C1011	AAX44760	C.EL	10uF 450V	ECA2WHG100B
C1012	AAX44770	C.EL	33uF 450V	ECA2WHG330
C1032	FX612630	C.CE	120pF 1KV	ECCZ3A121KGE
C3510	FX611590	C.EL	100uF 6.3V	ECEAOJKS101
C3512	FX611590	C.EL	100uF 6.3V	ECEAOJKS101
C3514	FX611590	C.EL	100uF 6.3V	ECEAOJKS101
C3844	FX611590	C.EL	100uF 6.3V	ECEAOJKS101
C3846	FX611590	C.EL	100uF 6.3V	ECEAOJKS101
C3848	FX611590	C.EL	100uF 6.3V	ECEAOJKS101
C6092	AAX26460	C.EL	47uF 6.3V	ECEAOJKS470
C6101	AAX26460	C.EL	47uF 6.3V	ECEAOJKS470
C6001	FX611600	C.EL	220uF 6.3V	ECEA1AKS221
C3505	NX702060	C.EL	47uF 16V	ECEA1CKA470
C3505-08	NX702060	C.EL	47uF 16V	ECEA1CKA470
C3861	AAX18310	C.EL	100uF 16V	ECEA1CKS101
C3845	AAX18320	C.EL	22uF 16V	ECEA1CKS220
C3847	AAX18320	C.EL	22uF 16V	ECEA1CKS220
C3849	AAX18320	C.EL	22uF 16V	ECEA1CKS220
C3801, 02	AAX18330	C.EL	1uF 50V	ECEA1HKS010
C3841	AAX18330	C.EL	1uF 50V	ECEA1HKS010
C6004	AAX26480	C.EL	10uF 50V	ECEA1HKS100
C3901	UF008100	C.EL. CHP	100uF 4V	
C6801, 02	UF008100	C.EL. CHP	100uF 4V	
C3720	UF017330	C.EL. CHP	33uF 6.3V	
C6201	UF017330	C.EL. CHP	33uF 6.3V	
C6501, 02	UF017330	C.EL. CHP	33uF 6.3V	
C3080	UF118330	C.EL. CHP	330uF 6.3V	
C2502	UF038100	C.EL. CHP	100uF 16V	
C2503	UF037220	C.EL. CHP	22uF 16V	
C4302	NX704170	C.POL	0.022uF 50V	ECHR1H223JZ

\* New Parts

Schm Ref.	PART NO.	Description	Remarks	Markets
C4921	NX704170	C.POL	0.022uF 50V	ECHR1H223JZ
C4923	NX704170	C.POL	0.022uF 50V	ECHR1H223JZ
C4931	NX704170	C.POL	0.022uF 50V	ECHR1H223JZ
C4933	NX704170	C.POL	0.022uF 50V	ECHR1H223JZ
C5272	US135220	C.CE. CHP	0.22uF 16V	
C2031, 32	US135100	C.CE. CHP	0.1uF 16V	
C2036	US135100	C.CE. CHP	0.1uF 16V	
C2038	US135100	C.CE. CHP	0.1uF 16V	
C3205	US135100	C.CE. CHP	0.1uF 16V	
C3208	US135100	C.CE. CHP	0.1uF 16V	
C5235, 36	US135100	C.CE. CHP	0.1uF 16V	
C5274	US135100	C.CE. CHP	0.1uF 16V	
C6215	US135100	C.CE. CHP	0.1uF 16V	
C5264	AAX44950	C.CE. CHP	0.018uF 16V	ECJ1VB1C183K
C2050	US034330	C.CE. M. CHP	0.033uF 16V	
C2034	US034390	C.CE. M. CHP	0.039uF 16V	
C5271	US063100	C.CE. M. CHP	1000pF 50V	
C5290	US063100	C.CE. M. CHP	1000pF 50V	
C2039	US064100	C.CE. M. CHP	0.01uF 50V	
C2047	US064100	C.CE. M. CHP	0.01uF 50V	
C3504	US064100	C.CE. M. CHP	0.01uF 50V	
C3531	US064100	C.CE. M. CHP	0.01uF 50V	
C3531, 32	US064100	C.CE. M. CHP	0.01uF 50V	
C5282	US064100	C.CE. M. CHP	0.01uF 50V	
C5273	US063180	C.CE. CHP	1800pF 50V	
C5256	US063220	C.CE. M. CHP	2200pF 50V	1164690
C2056, 57	US063270	C.CE. M. CHP	2700pF 50V	
C5291	US063270	C.CE. M. CHP	2700pF 50V	
C2066, 67	US063470	C.CE. CHP	4700pF 50V	
C2055	US063680	C.CE. CHP	6800pF 50V	
C2035	US063820	C.CE. CHP	8200pF 50V	
C3722, 23	US061100	C.CE. M. CHP	10pF 50V	
C2043	US062100	C.CE. M. CHP	100pF 50V	
C3520	US062100	C.CE. M. CHP	100pF 50V	
C3871-74	US062100	C.CE. M. CHP	100pF 50V	
C4331-37	US062100	C.CE. M. CHP	100pF 50V	
C5292	US062100	C.CE. M. CHP	100pF 50V	
C6212	US062100	C.CE. M. CHP	100pF 50V	
C2040	US063100	C.CE. M. CHP	1000pF 50V	
C2045, 46	US063100	C.CE. M. CHP	1000pF 50V	
C2058	US063100	C.CE. M. CHP	1000pF 50V	
C2060	US063100	C.CE. M. CHP	1000pF 50V	
C2063-65	US063100	C.CE. M. CHP	1000pF 50V	
C4423-30	US063100	C.CE. M. CHP	1000pF 50V	
C6511	US061150	C.CE. CHP	15pF 50V	
C3054	US061220	C.CE. M. CHP	22pF 50V	
C4338	US061330	C.CE. M. CHP	33pF 50V	
C6251	UB446100	C.CE. CHP	1uF 16V	
C2504-08	US035100	C.CE. M. CHP	0.1uF 16V	
C2510-13	US135100	C.CE. M. CHP	0.1uF 16V	
C5102, 03	US135100	C.CE. M. CHP	0.1uF 16V	
C5123	US135100	C.CE. M. CHP	0.1uF 16V	
C5151	US135100	C.CE. M. CHP	0.1uF 16V	
C6803-14	US135220	C.CE. CHP	0.22uF 16V	
C3502, 03	US064100	C.CE. M. CHP	0.01uF 50V	
C3533, 34	US064100	C.CE. M. CHP	0.01uF 50V	
C3811	US064100	C.CE. M. CHP	0.01uF 50V	
C3821	US064100	C.CE. M. CHP	0.01uF 50V	
C3831	US064100	C.CE. M. CHP	0.01uF 50V	
C6031-34	US064100	C.CE. M. CHP	0.01uF 50V	
C6095	US064100	C.CE. M. CHP	0.01uF 50V	
C2003-20	US035100	C.CE. M. CHP	0.1uF 16V	
C2022-30	US035100	C.CE. M. CHP	0.1uF 16V	

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Schm Ref.	PART NO.	Description	Remarks	Markets
C2049	US035100	C. CE. M. CHP 0.1uF 16V		
C2052, 53	US035100	C. CE. M. CHP 0.1uF 16V		
C2068	US035100	C. CE. M. CHP 0.1uF 16V		
C2073	US035100	C. CE. M. CHP 0.1uF 16V		
C2101, 02	US035100	C. CE. M. CHP 0.1uF 16V		
C3003-36	US035100	C. CE. M. CHP 0.1uF 16V		
C3051, 52	US035100	C. CE. M. CHP 0.1uF 16V		
C3061-67	US035100	C. CE. M. CHP 0.1uF 16V		
C3071, 72	US035100	C. CE. M. CHP 0.1uF 16V		
C3081, 82	US035100	C. CE. M. CHP 0.1uF 16V		AR
C3087-89	US035100	C. CE. M. CHP 0.1uF 16V		AR
C3101	US035100	C. CE. M. CHP 0.1uF 16V		AR
C3111	US035100	C. CE. M. CHP 0.1uF 16V		AR
C3116	US035100	C. CE. M. CHP 0.1uF 16V		AR
C3202-04	US035100	C. CE. M. CHP 0.1uF 16V		GB
C3206, 07	US035100	C. CE. M. CHP 0.1uF 16V		GB
C3209-13	US035100	C. CE. M. CHP 0.1uF 16V		GB
C3221	US035100	C. CE. M. CHP 0.1uF 16V		GB
C3226	US035100	C. CE. M. CHP 0.1uF 16V		GB
C3231	US035100	C. CE. M. CHP 0.1uF 16V		GB
C3236	US035100	C. CE. M. CHP 0.1uF 16V		GB
C3241	US035100	C. CE. M. CHP 0.1uF 16V		GB
C3261	US035100	C. CE. M. CHP 0.1uF 16V		AR
C3703-19	US035100	C. CE. M. CHP 0.1uF 16V		AR
C3721	US035100	C. CE. M. CHP 0.1uF 16V		AR
C3724	US035100	C. CE. M. CHP 0.1uF 16V		AR
C3762-73	US035100	C. CE. M. CHP 0.1uF 16V		AR
C3902-07	US035100	C. CE. M. CHP 0.1uF 16V		AR
C3910	US035100	C. CE. M. CHP 0.1uF 16V		AR
C3916, 17	US035100	C. CE. M. CHP 0.1uF 16V		AR
C3921	US035100	C. CE. M. CHP 0.1uF 16V		AR
C3926	US035100	C. CE. M. CHP 0.1uF 16V		AR
C3931	US035100	C. CE. M. CHP 0.1uF 16V		AR
C4207-10	US035100	C. CE. M. CHP 0.1uF 16V		AR
C4215	US035100	C. CE. M. CHP 0.1uF 16V		
C4217	US035100	C. CE. M. CHP 0.1uF 16V		*
C4224-29	US035100	C. CE. M. CHP 0.1uF 16V		
C5203-05	US035100	C. CE. M. CHP 0.1uF 16V		
C5221	US035100	C. CE. M. CHP 0.1uF 16V		
C5232-34	US035100	C. CE. M. CHP 0.1uF 16V		
C6202-06	US035100	C. CE. M. CHP 0.1uF 16V		
C6211	US035100	C. CE. M. CHP 0.1uF 16V		
C6221	US035100	C. CE. M. CHP 0.1uF 16V		
C6261	US035100	C. CE. M. CHP 0.1uF 16V		
C6304, 05	US035100	C. CE. M. CHP 0.1uF 16V		*
C6503-05	US035100	C. CE. M. CHP 0.1uF 16V		*
C6521	US035100	C. CE. M. CHP 0.1uF 16V		
C6815, 16	US035100	C. CE. M. CHP 0.1uF 16V		
C1031	FX612780	C. CE 0.01uF 500V	ECKD2H103PU	R
C1061	FG613100	C. CE 1000pF 50V		R
* C1051	FX612830	C. POL 0.01uF	EC0B1H103JF	R
C1051	UA655100	C. MYLAR 0.1uF 50V	065269	AGB
C1053	UA655100	C. MYLAR 0.1uF 50V	065269	
C1041	UA654220	C. MYLAR 0.022uF 50V		AGB
C1102	UA654220	C. MYLAR 0.022uF 50V		
C1052	UA654680	C. MYLAR 0.068uF 50V	064989	
* C1001, 02	AAX45550	C. SAFTY 0.1uF	EC0U2A104MLC	
C1101	UA655100	C. MYLAR 0.1uF 50V	065269	AGB
C2048	US064150	C. CE. M. CHP 0.015uF 50V		
C1115	UB215100	C. CE. M. CHP 0.1uF 25V		
C3803	UB215100	C. CE. M. CHP 0.1uF 25V		GB
C3842, 43	UB215100	C. CE. M. CHP 0.1uF 25V		GB
C3862	UB215100	C. CE. M. CHP 0.1uF 25V		GB

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Schm Ref.	PART NO.	Description	Remarks	Markets
C4313-21	UB215100	C. CE. M. CHP 0.1uF 25V		
C4431-33	UB215100	C. CE. M. CHP 0.1uF 25V		
C4587-89	UB215100	C. CE. M. CHP 0.1uF 25V		
C4753	UB215100	C. CE. M. CHP 0.1uF 25V		
C4782	UB215100	C. CE. M. CHP 0.1uF 25V		
C6005	UB215100	C. CE. M. CHP 0.1uF 25V		
C6012	UB215100	C. CE. M. CHP 0.1uF 25V		
C6061	UB215100	C. CE. M. CHP 0.1uF 25V		
C6091	UB215100	C. CE. M. CHP 0.1uF 25V		
C6512	US060800	C. CE. CHP 8pF 50V		
C5262	US062180	C. CE. CHP 180P 50V		
C2041, 42	US062330	C. CE. M. CHP 330pF 50V		
C2061, 62	US062330	C. CE. M. CHP 330pF 50V		
C5299	US062330	C. CE. M. CHP 330pF 50V		
C2044	US062390	C. CE. CHP 390P 50V		
C5254	US062390	C. CE. CHP 390P 50V		
C6252	US062470	C. CE. M. CHP 470pF 50V		
C5283	US062560	C. CE. CHP 560pF 50V		
C2051	US061680	C. CE. CHP 68pF 50V		
C2054	US062680	C. CE. M. CHP 680pF 50V		
C3524	UB051820	C. CE. M. CHP 82pF 50V		AR
C2059	US062820	C. CE. CHP 820pF 50V		
C2501	UF118220	C. EL. CHP 220uF 6.3V		
C2509	UF037100	C. EL. CHP 10uF 16V		
C2001, 02	UF018100	C. EL. CHP 100uF 6.3V		
C2021	UF018100	C. EL. CHP 100uF 6.3V		
C3100	UF018100	C. EL. CHP 100uF 6.3V		AR
C3201	UF018100	C. EL. CHP 100uF 6.3V		GB
C3220	UF018100	C. EL. CHP 100uF 6.3V		GB
C3920	UF018100	C. EL. CHP 100uF 6.3V		AR
C6257	UF018100	C. EL. CHP 100uF 6.3V		
C5201	UF017330	C. EL. CHP 33uF 6.3V		
C5111	UF017470	C. EL. CHP 47uF 6.3V	EEVHBOJ470R	
C5115	UF017470	C. EL. CHP 47uF 6.3V	EEVHBOJ470R	
C5101	UF037100	C. EL. CHP 10uF 16V		
* C1021	AAX44810	C. CE VCK0106K221T	F1B3D221A002	
C3083-86	UB446100	C. CE. CHP 1uF 16V		
C1062	UR818330	C. EL 330uF 6.3V		R
C4781	UR817470	C. EL 47uF 6.3V		
C1111	UR829100	C. EL 1000uF 10V		R
C1112	UR829100	C. EL 1000uF 10V		R
C1114	UR829220	C. EL 2200uF 10V		R
C1131	UR848220	C. EL 220uF 25V		
C1141	UR848220	C. EL 220uF 25V		
* C4419-22	AAX44700	C. EL 47uF 25V	F2A1E470A205	
* C4751, 52	AAX44700	C. EL 47uF 25V	F2A1E470A205	
C1041	UR857470	C. EL 47uF 35V		R
C4216	UF018100	C. EL. CHP 100uF 6.3V		
C4230-33	UF017330	C. EL. CHP 33uF 6.3V		
C3001, 02	UF118330	C. EL. CHP 330uF 6.3V		
C3701, 02	UF118330	C. EL. CHP 330uF 6.3V		AR
C4222, 23	UF118330	C. EL. CHP 330uF 6.3V		
C3073	UF037100	C. EL. CHP 10uF 16V		
C3761	UF037100	C. EL. CHP 10uF 16V		AR
C4211	UF037100	C. EL. CHP 10uF 16V		
C4213	UF037100	C. EL. CHP 10uF 16V		
C4219, 20	UF037100	C. EL. CHP 10uF 16V		
C5202	UF037100	C. EL. CHP 10uF 16V		
C6253	UF037100	C. EL. CHP 10uF 16V		
C6262	UF037100	C. EL. CHP 10uF 16V		
C5152	UF037100	C. EL. CHP 10uF 16V		
* C4414-17	AAX44710	C. EL 47uF 6.3V	VCEA0JAE470B	
C1112	UR829100	C. EL 1000uF 10V		R
C1116	UR828220	C. EL 220uF 10V		

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Schm Ref.	PART NO.	Description	Remarks	Markets
C1111	UR829100	C.EL	1000uF 10V	R
C1121	UR829100	C.EL	1000uF 10V	R
C1171	AAX44750	C.EL	180uF 10V	VCEA1AJH181B
C1154	UR838220	C.EL	220uF 16V	045291
C4311	AAX44720	C.EL	100uF 25V	VCEA1EAE101B
C4322-24	AAX44720	C.EL	100uF 25V	VCEA1EAE101B
C1153	UR848220	C.EL	220uF 25V	
C1151	AAX44730	C.EL	270uF 25V	VCEA1EJH271B
C1161	AAX44740	C.EL	56uF 50V	VCEA1HJH560B
C1031	AAX44820	C.CE	1800pF 500V	VCK0266K182T
C1003	NX702590	C.CE	VCK0286B471	VCK0286B471
C1005	NX702600	C.CE	VCK0286E102	VCK0286E102
D1002	iX636910	IC	ENC471D5A	ENC471D5A
D1011	AAX44840	DIODE	S1WABABO-4062	B0EBKT000002
D1022	AAX44930	DIODE	RD100E-TB	RD100E-TB
D1031	iX637340	DIODE	AP01C	AP01C
D1041	iX636960	DIODE	AU01Z	AU01Z
D1042	AAX44910	DIODE	MAZ7300B-TR	MAZ73000BC
D1051	iX634180	DIODE	1SS254	1SS254
D1051	AAX44850	DIODE	MA165TA5VT	MA2C165001VT
D1051, 52	iX634180	DIODE	1SS254	1SS254
D1052	iX634180	DIODE	1SS254	1SS254
D1052	AAX44850	DIODE	MA165TA5VT	MA2C165001VT
D1053	AAX44880	DIODE	MA4022-LTA	MA4022LTA
D1054	iX636960	DIODE	AU01Z	AU01Z
D1061	AAX44860	DIODE	MA700-TA	MA2C70000F
D1062	AAX44900	DIODE	MAZ4200-HTA	MAZ42000HF
D1101	AAX27040	DIODE	MAZ70750AC	MAZ70750AC
D1111	iX636940	DIODE	21DQ06FC4	21DQ06FC4
D1111	NX702700	DIODE	MA7D55	MA7D55
D1121	iX636940	DIODE	21DQ06FC4	21DQ06FC4
D1126	AAX27000	DIODE	11ES1TA1	B0EAKL000031
D1131	iX637330	DIODE .SHOT	11EQS10TA1	11EQS10TA1
D1132	AAX44890	DIODE	MA7180A-TR	MA7180A-TR
D1141	iX637330	DIODE .SHOT	11EQS10TA1	11EQS10TA1
D1151, 52	iX637330	DIODE .SHOT	11EQS10TA1	11EQS10TA1
D1161	iX636960	DIODE	AU01Z	AU01Z
D1162	AAX44920	DIODE	MAZ80300HL	MAZ80300HL
D1171	iX636950	DIODE	AK04	AK04
D1172	AAX27000	DIODE	11ES1TA1	B0EAKL000031
D1173	iX636950	DIODE	AK04	AK04
D3071	AAX34220	DIODE	MA2J11100L	MA2J11100L
D3851	AAX44870	DIODE	MA152A-TX	MA3X152A0L
D4301	AAX36550	DIODE	MA8047M	MA8047M
D4921	AAX44830	DIODE	ISS355 TE-17	B0ACCK000005
D4931	AAX44830	DIODE	ISS355 TE-17	B0ACCK000005
D5151	AAX34230	DIODE	MA2J72800L	MA2J72800L
D6091	AAX36540	DIODE	MA4039HTA	MA4039HTA
D6101, 02	AAX27770	LED	AMBER VIDEO OFF	LNJ401NPYJA
D6103	NX701880	LED	LNJ201LPQJA	LNJ201LPQJA
D6151	AAX27770	LED	AMBER VIDEO OFF	LNJ401NPYJA
D6215	AAX34230	DIODE	MA2J72800L	MA2J72800L
DL6001	AAX45580	FL. DSPLY	FV779GN	A2BB00000103
F1001	AAX45320	FUSE	T1.6A 250V	K5D162BK0005
IC1021	iX637320	IC	STRM6559LF	STRM6559LF
IC1101	AAX44320	IC	MM1431ATT	C0DAEMZ00001
IC1125	AAX44330	IC	PO070VK01FZ	C0DAEZG00010
IC1151	AAX44310	IC	PO09DZ1M	C0CBCHG00003
IC2001	AAX26200	IC	MN103S26EGA	MN103S26EGA
IC2101	AAX26100	IC	SN74AHC1G66H	C0JBAS000116
IC2501	AAX44360	IC	MOTOR DRIVE	C0GBG0000033
IC3001	AAX26220	IC	MN677531KA	MN677531KA
IC3061	AAX44420	IC	64M-SDRAM	C3ABPG000121

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Schm Ref.	PART NO.	Description	Remarks	Markets
IC3071	AAX26040	IC	PO1K333M2ZP	C0CBCBD000002
IC3201	AAX26110	IC	ADV7190KST	C0ZBZ0000459
IC3261	AAX44390	IC	BU4053BCFV-E1	C0JBAR000290
IC3501	AAX36160	IC	BH7865FS-E2	C9ZB00000394
IC3501	AAX44440	IC	BH7862FS-E2	C9ZB00000377
IC3581	AAX44470	IC	NJM78M05FA	NJM78M05FA
IC3701	AAX34170	IC	FL12200	C1AB00001554
IC3761	AAX34190	IC	K4S643232E-TC601	C3ABPJ000018
IC3801	AAX44400	IC	MN1508XNRE	C1AB00001466
IC3841	AAX44380	IC	MC14053BFEL	C0JBAR000245
IC3842	AAX44290	IC	BA7660FS-E2	BA7660FS-E2
IC3851	AAX44500	IC	XN4601TX	XN4601TX
IC3901	AAX44410	IC	ADV7199KS	C1AB00001499
IC4211	AAX44350	IC	PCM1609KPTR	C0FBBK000031
IC4301-04	iX636760	IC	NJM4580M	NJM4580M
IC4305	AAX44300	IC	NJM78L05A	C0CAADC00008
IC5201	AAX44280	IC	AN22030A-VT	AN22030A-VT
IC6001	AAX44450	IC	MN101C35DCW	MN101C35DCW
IC6011	AAX16120	IC	PST9327UR	PST9327UR
IC6101	AAX36100	IC	GP1UD282RK	B3RAD0000037
IC6201	AAX26190	IC	MN102H60GFB	MN102H60GFB
IC6211	AAX03570	IC	PST596JNR	PST596JNR
IC6221	AAX44430	IC	BR24C16F-E2	C3EBGC000033
IC6251	AAX34150	IC	MM1563DFBE1	C0CBCBE00001
IC6261	AAX44340	IC	PO018EZ01ZP	C0DBFFG00004
IC6301	AAX44480	IC	16M FLASH ROM	RFKFRP65D160
IC6521	AAX44370	IC	AHC1GU04HDCK	C0JBAB000356
IC6561	AAX34180	IC	BU2286FV-E2	C1DB00000582
IC6801	AAX44460	IC	MN5B00	MN5B00
IC6802	AAX44490	IC	TC7SH32FUTL	TC7SH32FUTL
J3871	AAX44780	JACK	SCART TERMINAL	K1FB121B0004
JK4501	AAX44790	JACK	LAP5130	K2YZ09000007
JK4751	AAX44800	JACK	YKC21	K4BK01H00002
P1001	AAX36430	AC INLET	HSC0609	K2AA2B000004
PR1161	AAX04040	IC. PRT	VSF0015A025	VSF0015A025
PR1171	KX604710	IC. PRT	VSF0015A10	VSF0015A10
PR4911, 12	KX604710	IC. PRT	VSF0015A10	VSF0015A10
Q1021	AAX45110	TR	2SC4908	2SC4908LF654
Q1051	AAX45210	TR	RS2561L2-1-V-E3 W4	B3PBA0000104
Q1052	AAX45170	TR	2SD1996	2SD1996STA
Q1115	AAX36600	TR	CPH6315-TL	B1DHCC000029
Q2001	AAX45130	TR	2SD1819	2SD1819A0L
Q3101	AAX45090	TR	2SB1218	2SB1218ARL
Q3111	AAX45090	TR	2SB1218	2SB1218ARL
Q3116	AAX45090	TR	2SB1218	2SB1218ARL
Q3221	AAX45090	TR	2SB1218	2SB1218ARL
Q3226	AAX45090	TR	2SB1218	2SB1218ARL
Q3231	AAX45090	TR	2SB1218	2SB1218ARL
Q3236	AAX45090	TR	2SB1218	2SB1218ARL
Q3241	AAX45090	TR	2SB1218	2SB1218ARL
Q3811	AAX45180	TR	2SD601A	2SD601A-RSTX
Q3821	AAX45180	TR	2SD601A	2SD601A-RSTX
Q3831	AAX45180	TR	2SD601A	2SD601A-RSTX
Q3851	AAX45180	TR	2SD601A	2SD601A-RSTX
Q3921	AAX45070	TR	2SA1532	2SA15320XL
Q3926	AAX45070	TR	2SA1532	2SA15320XL
Q3931	AAX45070	TR	2SA1532	2SA15320XL
Q4302	AAX45180	TR	2SD601A	2SD601A-RSTX
Q4315	AAX45180	TR	2SD601A	2SD601A-RSTX
Q4410	AAX45120	TR	2SD1328	2SD132800L
Q4411, 12	AAX45180	TR	2SD601A	2SD601A-RSTX
Q4413, 14	AAX45120	TR	2SD1328	2SD132800L
Q4415-18	AAX45180	TR	2SD601A	2SD601A-RSTX

\* New Parts

DVD-S830



P.C.B.

Schm Ref.	PART NO.	Description	Remarks	Markets
* Q4419	AAX45120	TR	2SD1328	2SD132800L
* Q4751	AAX45180	TR	2SD601A	2SD601A-RSTX
* Q4901	AAX45140	TR	2SD1862	2SD1862QRTV2
* Q4911	AAX45100	TR	2SB1240	2SB1240PRTV2
* Q4921	AAX45190	TR	2SK170V	B1CACE000006
* Q4931	AAX45200	TR	2SJ74V	B1CCCC000003
* Q5111	AAX45080	TR	2SB1115	2SB1115-T
* Q5115	AAX45080	TR	2SB1115	2SB1115-T
* Q5271	AAX45220	TR	UNR5211	UNR521100L
* Q6091	AAX45150	TR	2SD1992	2SD1992ARS
* Q6095	AAX45160	TR	2SD1996	2SD1996OHA
* QR1115	AAX45030	TR. DGT	UNR2213	UNR221300L
* QR3261	AAX45010	TR. DGT	UN5212	UN5212-TX
QR3501	iX635550	TR. DGT	UN2212	UN2212
QR3521	iX635550	TR. DGT	UN2212	UN2212
QR3523	iX635550	TR. DGT	UN2212	UN2212
QR3841, 42	iX635550	TR. DGT	UN2212	UN2212
QR3851, 52	iX635550	TR. DGT	UN2212	UN2212
QR3853	iX637130	TR. DGT	UN2111	UN2111
* QR4301, 02	AAX45020	TR. DGT	UNR2211	UNR221100L
QR4304	iX637130	TR. DGT	UN2111	UN2111
QR4316	iX637130	TR. DGT	UN2111	UN2111
* QR4317	AAX45020	TR. DGT	UNR2211	UNR221100L
* QR4901	AAX44980	TR. DGT	UN2114	UN2114TX
* QR4902, 03	AAX44990	TR. DGT	UN2114	UN2114TX
* QR4904	AAX44980	TR. DGT	UN2114	UN2114TX
* QR5221	AAX16160	TR. DGT	UN2121	UN2121
* QR5241	AAX45000	TR. DGT	UN511	UN511MTX
* QR6052	AAX44970	TR. DGT	DTA123JK-T96	B1GDCFEM0002
* QR6055, 56	AAX44970	TR. DGT	DTA123JK-T96	B1GDCFEM0002
* QR6101, 02	AAX44960	TR. DGT	DTA123JK-T96	B1GBCFEL0002
* QR6215	AAX45010	TR. DGT	UN5212	UN5212-TX
* R5112	AAX45710	R. CAR. CHP	27 Ω	1/2W ERJ12YJ270H
* R5116	AAX45710	R. CAR. CHP	27 Ω	1/2W ERJ12YJ270H
* R1002	AAX45720	R. MTL. OXD	330K Ω	1/2W ERC12AGM334C
* R1052	HV753220	R. CAR. FP	2. 2 Ω	1/4W
* R1031	HV758220	R. CAR. FP	220K Ω	1/4W
* R1032	HV758220	R. CAR. FP	220K Ω	1/4W
* R1041	HV758220	R. CAR. FP	220K Ω	1/4W
* R1042	HV758220	R. CAR. FP	220K Ω	1/4W
* R1063	HV758220	R. CAR. FP	220K Ω	1/4W
* R1054	HV754680	R. CAR. FP	68 Ω	1/4W
* R1051	AAX15780	R. CAR. FP	75 Ω	1/4W ERDS2TJ750
* R1021	HL214820	R. MTL. OXD	82 Ω	1W
* R1043	HL224680	R. MTL. OXD	68 Ω	2W
* R1022, 23	HV455470	R. CAR. FP	470 Ω	1/4W ERDS2FJ471
* R1041	HV458330	R. CAR. FP	330K Ω	1/4W ERDS2FJ334
* R1042	HV458330	R. CAR. FP	330K Ω	1/4W ERDS2FJ334
* R1044	NX703640	R. CAR. FP	3. 9M Ω	1/2W ERDS1TJ395
* R1045	NX703650	R. CAR. FR	4. 7M Ω	1/2W ERDS1TJ475
* R1051	HV456180	R. CAR. FP	1. 8K Ω	1/4W ERDS2FJ182
* R1053	HV455330	R. CAR. FP	330 Ω	1/4W ERDS2FJ331
* R1061	HV456150	R. CAR. FP	1. 5K Ω	1/4W ERDS2FJ152
* R1062	HV455100	R. CAR. FP	100 Ω	1/4W ERDS2FJ101
* R1064	HV457100	R. CAR. FP	10K Ω	1/4W ERDS2FJ103
* R1031	AAX07250	R. MTL	39K Ω	1W ERG1SJ393
* R1043	NX703610	R. MTL. FLM	10 Ω	1/2W ERG12SJ100
S6101	KX604670	SW		EVQ11G07K
S6151	KX604670	SW		EVQ11G07K
S6152	KX604670	SW		EVQ11G07K
S6153	KX604670	SW		EVQ11G07K
S6154	KX604670	SW		EVQ11G07K
S6155	KX604670	SW		EVQ11G07K

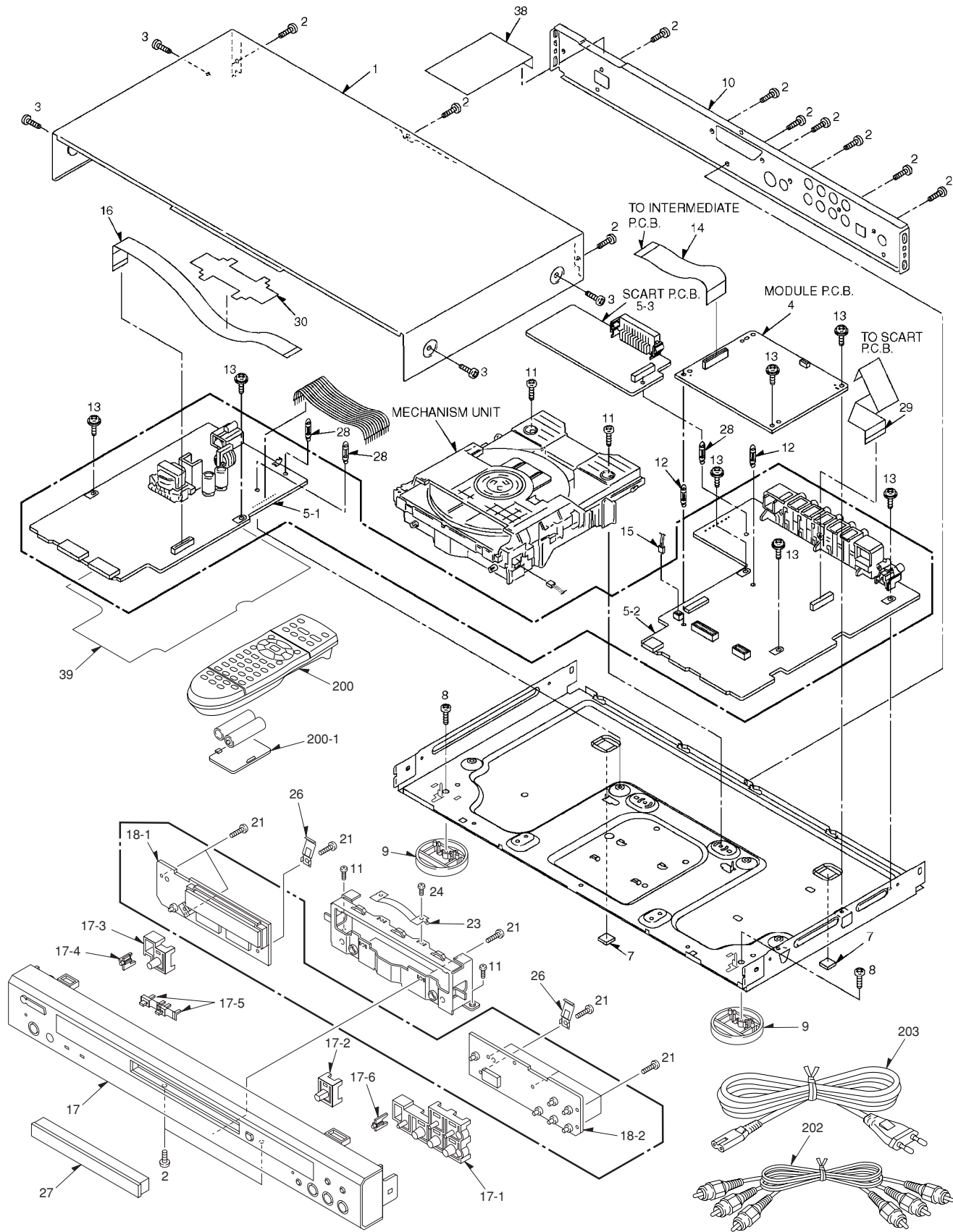
\* New Parts

Schm Ref.	PART NO.	Description	Remarks	Markets
* S6156	KX604670	SW		EVQ11G07K
* S6157	KX604670	SW		EVQ11G07K
* SW2501	AAX44940	SW	RSH1A048-A	RSH1A048-A
* T1021	AAX28030	TRANS		ETS29AS136AC
* T1021	AAX45660	TRANS		ETS29AD4S6AC
* T1021	AAX28030	TRANS		ETS29AS136AC
* X6001	AAX27620	RSNR. CE	RSXY8M00M06T	RSXY8M00M06T
* X6501	AAX45610	RSNR. CE	VSX1044 36. 864MHz	HOJ368500003
* X6501	AAX45620	RSNR. CE	VSX1044 36. 864MHz	HOJ368600005
* ZA1001, 02	AX624190	HOLDER. FUS		EYF52BC

\* New Parts



# EXPLODED VIEW



## MECHANICAL PARTS

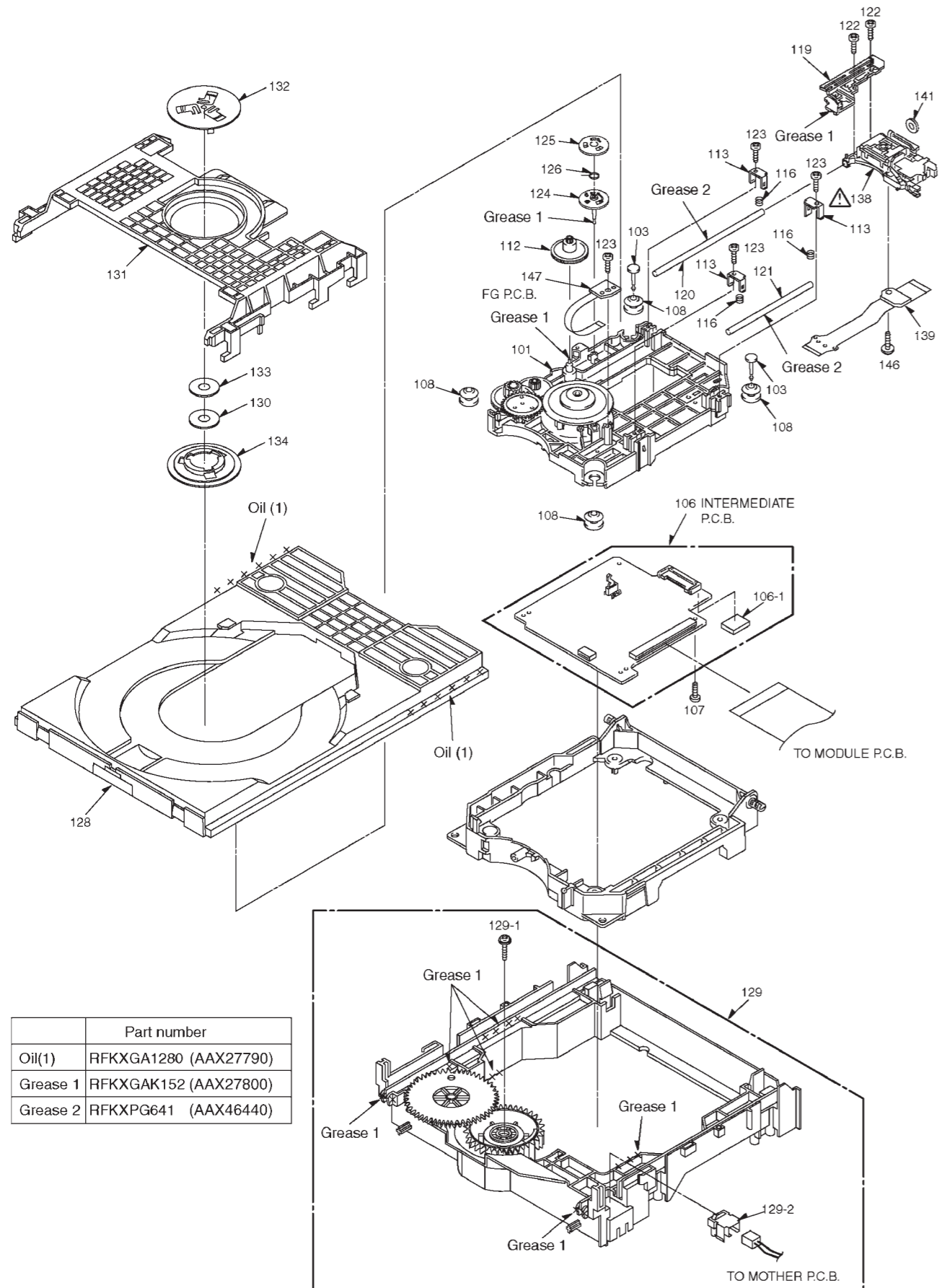
Ref. No.	PART NO.	Description	Remarks	Markets		
*	1	AAX45060	TOP COVER	GD	RKM0478-N	
*	1	AAX45050	TOP COVER	BL	RKM0478-K	
*	1	AAX45040	TOP COVER	TI	RKM0478-H	
	2	EX603920	BIND HEAD BONDING B-T. SCREW	3x8 MFZN2BL	VHD0690	
	3	EX603960	SPECIAL SCREW	3x8 GD, TI	VHD1094	
	3	EX603940	SPECIAL SCREW	3x8 BL	VHD1041	
*	4	AAX44630	P. C. B. ASS' Y	MODULE	REP3402E	GB
*	4	AAX44640	P. C. B. ASS' Y	MODULE	REP3438E	AR
*	5-1	AAX44560	P. C. B. ASS' Y	POWER	REP3389HA	GB
*	5-1	AAX44570	P. C. B. ASS' Y	POWER	REP3389JA	A
*	5-1	AAX44580	P. C. B. ASS' Y	POWER	REP3421DA	R
*	5-2	AAX44530	P. C. B. ASS' Y	TERMINAL	REP3389HB	GB
*	5-2	AAX44540	P. C. B. ASS' Y	TERMINAL	REP3389JB	A
*	5-2	AAX44550	P. C. B. ASS' Y	TERMINAL	REP3421DB	R
*	5-3	AAX44520	P. C. B. ASS' Y	SCART	REP3389CC	GB
*	7	AAX45330	FOOT RUBBER		RKA0137-K	
*	8	AAX45300	PAN HEAD P-TITE SCREW	3x6 MFZN2Y	XTV3+6G	
*	9	AAX45570	FOOT	GD	VYK8895	
*	9	AAX45560	FOOT	BL, TI	RYQ0398-H	
*	10	AAX45520	REAR PANEL		RGR0330C-C	GB
*	10	AAX45500	REAR PANEL		RGR0330B-F	A
*	10	AAX45510	REAR PANEL		RGR0330B-G	R
	11	EX604060	PAN HEAD B-TITE SCREW	3x8 MFZN2Y	XTV3+8J	
*	12	AAX44510	PCB SUPPORT		RMR1359-W	
	13	AAX36630	PAN HEAD SEMS S-TITE SCREW	3x8 MFZN2Y	VHD1403	
*	14	AAX44240	FFC(50P)	50P	REZ1462	
	15	AAX26750	CONNECTOR CABLE	2P P6005-mecha	REX1057	
*	16	AAX44250	FFC(22P)	22P	REZ1463	
*	17	AAX45370	FRONT PANEL ASS' Y	GD	RYP1159A-N	
*	17	AAX45350	FRONT PANEL ASS' Y	BL	RYP1159-K	GB
*	17	AAX45360	FRONT PANEL ASS' Y	BL	RYP1159A-K	A
*	17	AAX45340	FRONT PANEL ASS' Y	TI	RYP1159-H	
*	17-1	AAX45440	BUTTON, OPERATION	GD	RGU2163A-N	
*	17-1	AAX45420	BUTTON, OPERATION	BL	RGU2163-K	GB
*	17-1	AAX45430	BUTTON, OPERATION	BL	RGU2163A-K	A
*	17-1	AAX45410	BUTTON, OPERATION	TI	RGU2163-H	
*	17-2	AAX45400	BUTTON, OPEN/CLOSE	GD	RGU2164-N	
*	17-2	AAX45390	BUTTON, OPEN/CLOSE	BL	RGU2164-K	
*	17-2	AAX45380	BUTTON, OPEN/CLOSE	TI	RGU2164-H	
*	17-3	AAX45470	BUTTON, POWER	GD	RGU2165-N	
*	17-3	AAX45460	BUTTON, POWER	BL	RGU2165-K	
*	17-3	AAX45450	BUTTON, POWER	TI	RGU2165-H	
*	17-4	AAX45680	LIGHTING PIECES(A)	STANDBY/ON	RGL0613-Q	
*	17-5	AAX45700	LIGHTING PIECES(C)	VIDEO, MULTI	RGL0615-Q	
*	17-6	AAX45690	LIGHTING PIECES(B)	PROGRESSIVE ON	RGL0614-Q	AR
*	18-1	AAX44590	P. C. B. ASS' Y	FRONT 1	REP3456AA	GB
*	18-1	AAX44600	P. C. B. ASS' Y	FRONT 1	REP3456BA	AR
*	18-2	AAX44610	P. C. B. ASS' Y	FRONT 2	REP3456AB	GB
*	18-2	AAX44620	P. C. B. ASS' Y	FRONT 2	REP3456BB	AR
	21	XX700860	BIND HEAD B-TITE SCREW	2.6x10 MFZN2Y	XTBS26+10J	
*	23	AAX44660	EARTH PLATE(C)		RMC0515	
*	24	AAX45290	BIND HEAD SCREW	3x4 MFZN2Y	XTB3+4F	
	26	AAX36340	EARTH PLATE B		RMC0468	

\* New Parts

Ref. No.	PART NO.	Description	Remarks	Markets		
*	27	AAX45250	TRAY LID	GD	RYF0657-N	
*	27	AAX45240	TRAY LID	BL	RYF0657-K	
*	27	AAX45230	TRAY LID	TI	RYF0657-H	
*	28	AAX44650	PCB HOLDER		RMR1440-X	GB
*	29	AAX44260	FFC(19P)	19P	REZ1464	GB
*	30	AAX44270	FFC SHEET		RG00341-K	
*	38	AAX45630	INSULATION SHEET		RMZ0659	
*	39	AAX45310	BARRIER		RMZ0662	
			ACCESORRIES			
*	200	V9756400	REMOTE CONTROL		N20AJB000064	
*	200-1	AAX45670	BATTERY COVER		HTR028072002	
	202	MX605180	AUDIO VIDEO CABLE		VJA0788	GB
*	202	AAX45540	AUDIO VIDEO CABLE		K2KA6CA00001	AR
* ⚠	203	AAX42070	POWER CABLE	1.9m	RJA0035-2X	A
* ⚠	203	AAX42060	POWER CABLE	1.9m	RJA0019-2X	GR
* ⚠	203	AAX42080	POWER CABLE	1.9m	RJA0053-3X	B
			BATTERY			

\* New Parts

■ DVD-MECHANISM EXPLODED VIEW



	Part number
Oil(1)	RFKXGA1280 (AAX27790)
Grease 1	RFKXGAK152 (AAX27800)
Grease 2	RFKXPG641 (AAX46440)

■ DVD-MECHANISM PARTS

Ref. No.	PART NO.	Description	Remarks	Markets
101	AAX36320	SPINDLE MOTOR ASS'Y		RXQ1015
103	AAX27590	FIXED PIN		RMS0712
* 106	AAX45650	P.C.B. ASS'Y	INTERMEDIATE	REP3406AN
* 106-1	AAX26260	PCB RUBBER		RMG0558K
* 107	AAX45280	SCREW		RHD20060
108	AAX27340	FLOATING RUBBER		RMG0545A
112	AAX26280	TRAVERSE GEAR (A)		RDG0499
113	AAX27270	ADJUST SPRING HOLDER1		RMC0415
116	AAX27680	ADJUST SPRING		RME0320
119	AAX26320	TRAVERSE DRIVE RACK		RMM0251
120	AAX27170	DRIVE SHAFT		RMS0710
121	AAX26360	GUIDE SHAFT		RMS0711
* 122	AAX45270	SCREW		RHD17045
123	AAX04350	SCREW		VHD1224
124	AAX26290	TRAVERSE GEAR (B)		RDG0500
125	AAX26300	TRAVERSE GEAR (C)		RDG0501
126	AAX26310	TRAVERSE GEAR SPRING		RME0319
128	AAX27140	TRAY		RG00280K3
* 129	AAX45490	MECHA CHASSIS ASS'Y		RXQ0727
129-1	AAX27250	SCREW		XTW3+12S
129-2	AAX26350	OPEN SWITCH		RSH1A049U
* 130	AAX04650	MAGNET		JSM0048
* 131	AAX44680	CLAMP PLATE		RMR1445K
* 132	AAX45480	MAGNET HOLDER		RMR1447X
* 133	AAX45600	WASHER		XWG6FFY
* 134	AAX44670	CLAMPER		RMR1446X
* 138	AAX45590	OPTICAL PICK-UP		RAF3023A
* 139	AAX45640	INTERFACE FPC		RJB2308A
* 141	AAX26370	CUSHION RUBBER		RMG0561T
* 146	AAX45260	SCREW		RHD14108
147	AAX25940	FG P.C.B.		REP3081A

\*: New Parts

# Parts List for Chip Carbon Resistors

Value	1/10W Type Part No.	Value	1/10W Type Part No.	Value	1/16W Type Part No.
0 Ω	RD35 0000	4.3 kΩ	RD35 6430	0 Ω	HX61 1040
1.0 Ω	RD35 3100	4.7 kΩ	RD35 6470	1 Ω	HX61 0750
2.2 Ω	RD35 3220	5.1 kΩ	RD35 6510	10 Ω	HX61 1160
2.4 Ω	RD35 3240	5.6 kΩ	RD35 6560	47 Ω	HX61 1150
4.7 Ω	RD35 3470	6.2 kΩ	RD35 6620	100 Ω	HX61 0900
10 Ω	RD35 4100	6.8 kΩ	RD35 6680	220 Ω	HX61 0960
22 Ω	RD35 4220	7.5 kΩ	RD35 6750	270 Ω	HX61 1120
27 Ω	RD35 4270	8.2 kΩ	RD35 6820	390 Ω	HX61 0990
33 Ω	RD35 4330	9.1 kΩ	RD35 6910	470 Ω	HX61 0890
39 Ω	RD35 4390	10 kΩ	RD35 7100	560 Ω	HX61 1010
43 Ω	RD35 4430	11 kΩ	RD35 7110	1 kΩ	HX61 0910
47 Ω	RD35 4470	12 kΩ	RD35 7120	1.2 kΩ	HX61 1100
51 Ω	RD35 4510	13 kΩ	RD35 7130	1.5 kΩ	HX61 1090
62 Ω	RD35 4620	15 kΩ	RD35 7150	1.8 kΩ	HX61 1050
68 Ω	RD35 4680	16 kΩ	RD35 7160	2.7 kΩ	HX61 1140
75 Ω	RD35 4750	18 kΩ	RD35 7180	3.3 kΩ	HX61 0980
82 Ω	RD35 4820	20 kΩ	RD35 7200	4.7 kΩ	HX61 1080
91 Ω	RD35 4910	22 kΩ	RD35 7220	6.8 kΩ	HX61 1030
100 Ω	RD35 5100	24 kΩ	RD35 7240	10 kΩ	HX61 0920
120 Ω	RD35 5120	27 kΩ	RD35 7270	12 kΩ	HX61 0780
130 Ω	RD35 5130	30 kΩ	RD35 7300	15 kΩ	HX61 0950
150 Ω	RD35 5150	33 kΩ	RD35 7330	18 kΩ	HX61 0770
180 Ω	RD35 5180	36 kΩ	RD35 7360	22 kΩ	HX61 1110
200 Ω	RD35 5200	39 kΩ	RD35 7390	27 kΩ	HX61 1130
220 Ω	RD35 5220	43 kΩ	RD35 7430	30 kΩ	HX61 0810
240 Ω	RD35 5240	47 kΩ	RD35 7470	47 kΩ	HX61 1060
270 Ω	RD35 5270	51 kΩ	RD35 7510	56 kΩ	HX61 1020
300 Ω	RD35 5300	56 kΩ	RD35 7560	62 kΩ	HX61 0790
330 Ω	RD35 5330	62 kΩ	RD35 7620	82 kΩ	HX61 1170
390 Ω	RD35 5390	68 kΩ	RD35 7680	100 kΩ	HX61 0930
430 Ω	RD35 5430	75 kΩ	RD35 7750	120 kΩ	HX61 0940
470 Ω	RD35 5470	82 kΩ	RD35 7820	220 kΩ	HX61 0970
510 Ω	RD35 5510	91 kΩ	RD35 7910	390 kΩ	HX61 1000
560 Ω	RD35 5560	100 kΩ	RD35 8100	560 kΩ	HX61 1010
620 Ω	RD35 5620	120 kΩ	RD35 8120	1 MΩ	HX61 1070
680 Ω	RD35 5680	150 kΩ	RD35 8150		
820 Ω	RD35 5820	160 kΩ	RD35 8160		
910 Ω	RD35 5910	180 kΩ	RD35 8180		
1 kΩ	RD35 6100	200 kΩ	RD35 8200		
1.1 kΩ	RD35 6110	220 kΩ	RD35 8220		
1.2 kΩ	RD35 6120	270 kΩ	RD35 8270		
1.3 kΩ	RD35 6130	300 kΩ	RD35 8300		
1.5 kΩ	RD35 6150	330 kΩ	RD35 8330		
1.6 kΩ	RD35 6160	390 kΩ	RD35 8390		
1.8 kΩ	RD35 6180	430 kΩ	RD35 8430		
2 kΩ	RD35 6200	470 kΩ	RD35 8470		
2.2 kΩ	RD35 6220	510 kΩ	RD35 8510		
2.4 kΩ	RD35 6240	680 kΩ	RD35 8680		
2.7 kΩ	RD35 6270	1 MΩ	RD35 9100		
3 kΩ	RD35 6300	1.5 MΩ	RD35 9150		
3.3 kΩ	RD35 6330	2.2 MΩ	RD35 9220		
3.6 kΩ	RD35 6360	4.7 MΩ	RD35 9470		
3.9 kΩ	RD35 6390	10 MΩ	RD35 A100		

# Parts List for Carbon Resistors

Value	1/4W Type Part No.	1/6W Type Part No.	Value	1/4W Type Part No.	1/6W Type Part No.
1.0 Ω	HJ35 3100	HF85 3100	10 kΩ	HF45 7100	HF45 7100
1.8 Ω	HJ35 3180	*	11 kΩ	HF45 7110	HF45 7110
2.2 Ω	HJ35 3220	HF85 3220	12 kΩ	HJ35 7120	HF85 7120
3.3 Ω	HJ35 3330	HF85 3330	13 kΩ	HF45 7130	HF45 7130
4.7 Ω	HJ35 3470	HF85 3470	15 kΩ	HF45 7150	HF45 7150
5.6 Ω	HJ35 3560	HF85 3560	18 kΩ	HF45 7180	HF45 7180
10 Ω	HF45 4100	HF45 4100	22 kΩ	HF45 7220	HF45 7220
15 Ω	HJ35 4150	HF85 4150	24 kΩ	HF45 7240	HF45 7240
22 Ω	HF45 4220	HF45 4220	27 kΩ	HJ35 7270	HF85 7270
27 Ω	HJ35 4270	HF85 4270	30 kΩ	HF45 7300	HF45 7300
33 Ω	HF45 4330	HF45 4330	33 kΩ	HF45 7330	HF45 7330
39 Ω	HJ35 4470	HF85 4390	36 kΩ	HF45 7360	HF45 7360
47 Ω	HF45 4470	HF45 4470	39 kΩ	HF45 7390	HF45 7390
56 Ω	HF45 4560	HF45 4560	47 kΩ	HF45 7470	HF45 7470
68 Ω	HF45 4680	HF45 4680	51 kΩ	HF45 7510	HF45 7510
75 Ω	HF45 4750	HF45 4750	56 kΩ	HF45 7560	HF45 7560
82 Ω	HF45 4820	HF45 4820	62 kΩ	HF45 7620	HF45 7620
91 Ω	HF45 4910	HF45 4910	68 kΩ	HF45 7680	HF45 7680
100 Ω	HF45 5100	HF45 5100	82 kΩ	HF45 7820	HF45 7820
110 Ω	HJ35 5110	HF85 5110	91 kΩ	HF45 7910	HF45 7910
120 Ω	HF45 5120	HF45 5120	100 kΩ	HF45 8100	HF45 8100
150 Ω	HF45 5150	HF45 5150	110 kΩ	HF45 8110	HF45 8110
160 Ω	HJ35 5160	*	120 kΩ	HF45 8120	HF45 8120
180 Ω	HF45 5180	HF45 5180	150 kΩ	HF45 8150	HF45 8150
200 Ω	HF45 5200	HF45 5200	180 kΩ	HF45 8180	HF45 8180
220 Ω	HF45 5220	HF45 5220	220 kΩ	HJ35 8220	HF85 8220
270 Ω	HF45 5270	HF45 5270	270 kΩ	HF45 8270	HF45 8270
330 Ω	HF45 5330	HF45 5330	300 kΩ	HF45 8300	HF45 8300
390 Ω	HF45 5390	HF45 5390	330 kΩ	HF45 8330	HF45 8330
430 Ω	HF45 5430	HF45 5430	390 kΩ	HJ35 8390	HF85 8390
470 Ω	HF45 5470	HF45 5470	470 kΩ	HF45 8470	HF45 8470
510 Ω	HF45 5510	HF45 5510	560 kΩ	HJ35 8560	HF85 8560
560 Ω	HF45 5560	HF45 5560	680 kΩ	HJ35 8680	HF85 8680
680 Ω	HF45 5680	HF45 5680	820 kΩ	HJ35 8820	HF85 8820
820 Ω	HF45 5820	HF45 5820	1.0 MΩ	HF45 9100	HF45 9100
910 Ω	HF45 5910	HF45 5910	1.2 MΩ	HJ35 9120	*
1.0 kΩ	HF45 6100	HF45 6100	1.5 MΩ	HJ35 9150	HF85 9150
1.2 kΩ	HF45 6120	HF45 6120	1.8 MΩ	HJ35 9180	HF85 9180
1.5 kΩ	HF45 6150	HF45 6150	2.2 MΩ	HJ35 9220	HF85 9220
1.8 kΩ	HF45 6180	HF45 6180	3.3 MΩ	HJ35 9330	HF85 9330
2.0 kΩ	HJ35 6200	HF85 6200	3.9 MΩ	HJ35 9390	*
2.2 kΩ	HF45 6220	HF45 6220	4.7 MΩ	HJ35 9470	HF85 9470
2.4 kΩ	HJ35 6240	HF85 6240			
2.7 kΩ	HF45 6270	HF45 6270			
3.0 kΩ	HF45 6300	HF45 6300			
3.3 kΩ	HF45 6330	HF45 6330			
3.6 kΩ	HJ35 6360	HF85 6360			
3.9 kΩ	HF45 6390	HF45 6390			
4.7 kΩ	HF45 6470	HF45 6470			
5.1 kΩ	HF45 6510	HF45 6510			
5.6 kΩ	HF45 6560	HF45 6560			
6.8 kΩ	HF45 6680	HF45 6680			
8.2 kΩ	HF45 6820	HF45 6820			
9.1 kΩ	HF45 6910	HF45 6910			

**1/4W Type**

**1/4W Type**  
HF45 ○○○○

**1/6W Type**  
HF85 ○○○○

\* : Not available