

DVD PLAYER

DVD-S1500/DV-S5770

SERVICE MANUAL

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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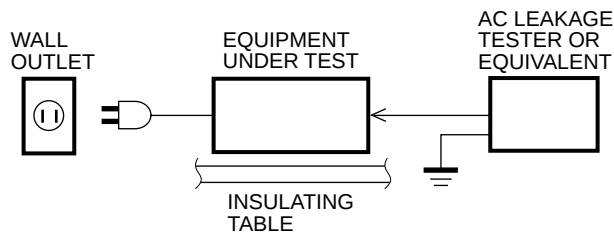


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■ TO SERVICE PERSONNEL

1. Critical Components Information
Components having special characteristics are marked $\triangle$ 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 μ 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 loaded, you will not be exposed to any laser emissions.

警告：レーザーの安全対策

本機はレーザー光線を放射する部品を搭載しています。この部品が放射するレーザー光線は目に損傷を起こします。このレーザー光線から目及び肌を保護するために、本機の修理作業中は下記の注意を厳守してください。

- 1) テスト時または修理時、目及び肌を光ピックアップから30cm以上離してください。いかなる場合もレーザー光線を見つめないでください。
- 2) 光ピックアップの再調整及び分解はしないでください。
- 3) このマニュアル上で指定されている以外の制御、調整、手順はレーザー光線を照射される結果を招く恐れがあります。

レーザー放射条件

- 1) トップカバーを取り外しSTANDBY/ONスイッチをONにすると、ディスク検知のため5～10秒間、光ピックアップからレーザー光線が放射されます。この間、修理はしないでください。
ディスクが検知されなければ、レーザー光線の放射は停止します。ディスクがセットされている場合、ディスクで遮られるのでレーザー光線は修理担当者に届きません。

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.

2) レーザーパワーレベルは光ピックアップ基板上のVRにより調整可能ですが、工場出荷前に調整セット済みなので、このVRは廻さないでください。このVRを廻すと装置からのレーザー光線の放射レベルが上がる恐れがあります。

Laser Diode Properties

Type: Semiconductor laser GaAlAs
Wave length: 650 nm (DVD/SA-CD)
790 nm (VCD/CD)
Output Power: 7 mW (DVD/SA-CD/VCD/CD)

レーザー

タイプ 半導体レーザー GaAlAs
波長 650 nm (DVD/SA-CD)
790 nm (VCD/CD)
出力 7 mW (DVD/SA-CD/VCD/CD)

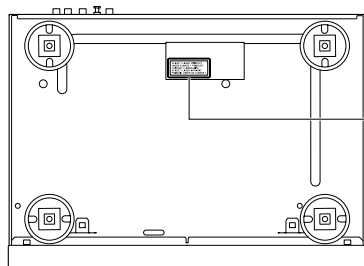
VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASER-SÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

WARNING! : OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRakta EJ STRÅLEN.

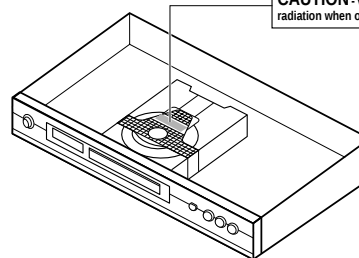
WARNING

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.



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



CAUTION - Visible and invisible laser radiation when open. Avoid exposure to beam.

CAUTION VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM

ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLNING VED ÅBNING UNDGÅ UDSÆTTELSE FOR STRÅLING

ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLNING NÄR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN

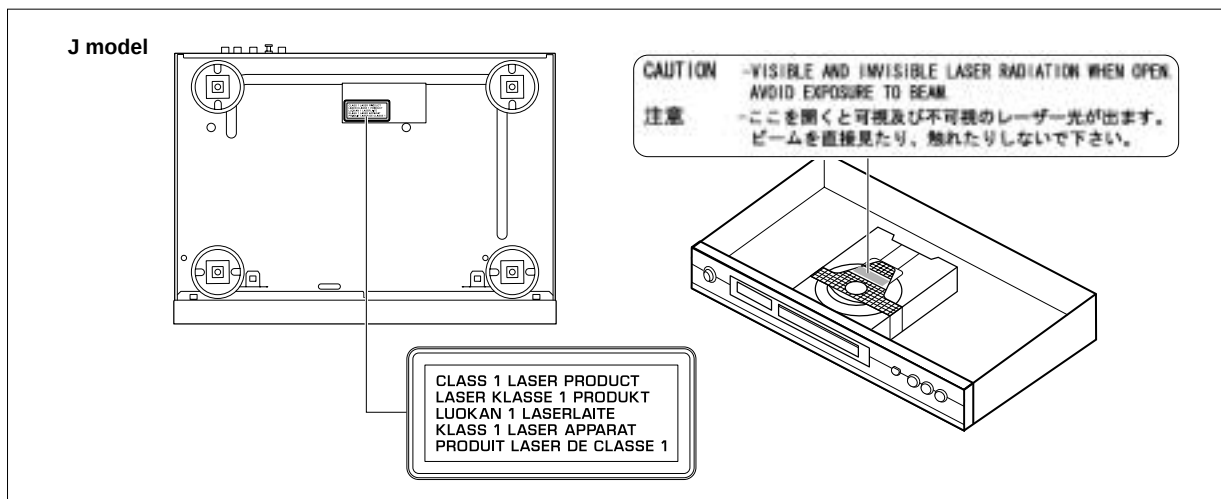
VARNING SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD BETRakta EJ STRÅLEN

VARO! AVATT AESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LASER SÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN

VORSICHT SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN

DANGER VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM

ATTENTION RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE EXPOSITION DANGEREUSE AU FAISCEAU



Warning for power supply

The primary side of the power supply carries live mains voltage when the player is connected to the mains even when the player is switched off !

This primary area is not shielded so it is possible to touch copper tracks and/or components when servicing the player. Service personnel have to take precautions to prevent touching this area or components in this area .

Note:

The screws on the DVD mechanism may never be touched, removed or re-adjusted.

Handle the DVD mechanism with care when the unit has to be exchanged!

The DVD mechanism is very sensitive for dropping or giving shocks.

■ PREVENTION OF ELECTRO STATIC DISCHARGE

The laser diode in the DVD mechanism may be damaged due to static electricity from clothes or the human body. Use caution to prevent electro static damage when servicing or handling the DVD-mechanism.

1. Grounding for electro static damage prevention

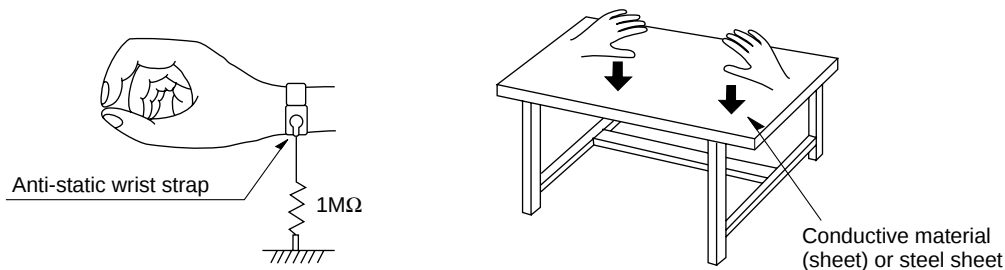
Some devices, such as the DVD player, use an optical pickup (laser diode) that will be damaged by static electricity in the working environment. Only attempt service after ensuring that all grounding procedures have been completed.

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.



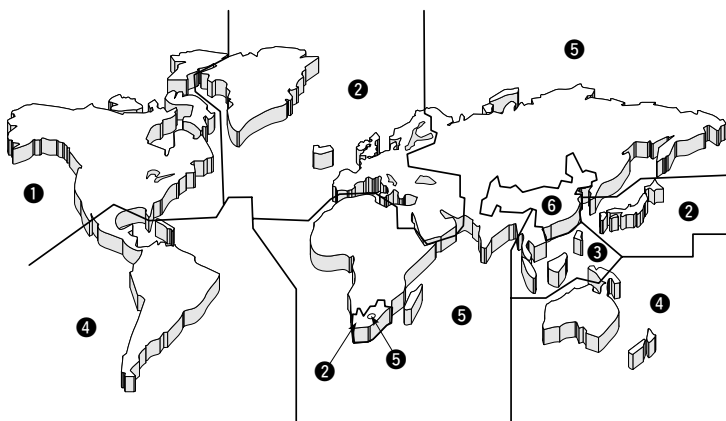
2. Handling Precautions for DVD mechanism

1. Handle the DVD mechanism 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

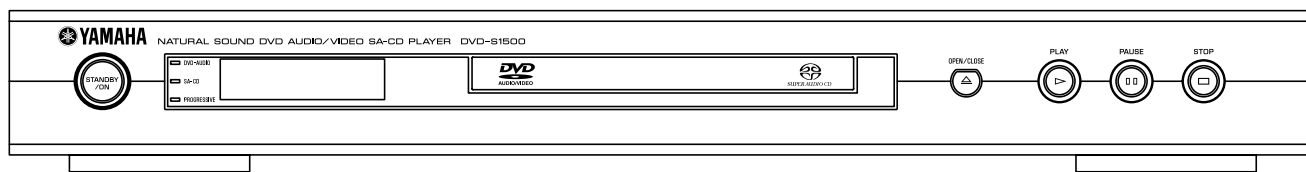
Locale Management Information : This DVD player is designed and manufactured to respond to the Locale Management Information that is recorded on a DVD disc. If the Locale number described on the DVD disc does not correspond to the Locale number of this DVD player, this DVD player cannot play this disc.

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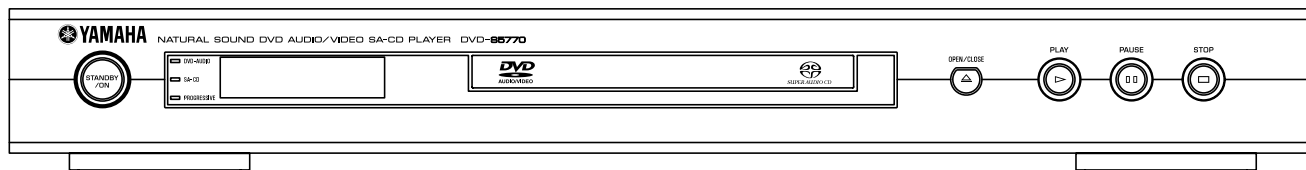


■ FRONT PANELS

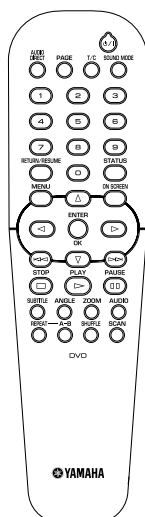
● DVD-S1500



● DV-S5770

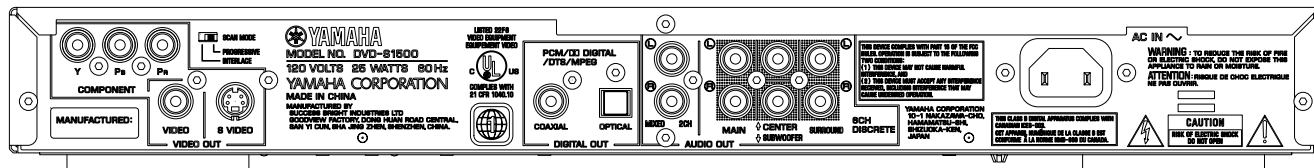


■ REMOTE CONTROL PANEL

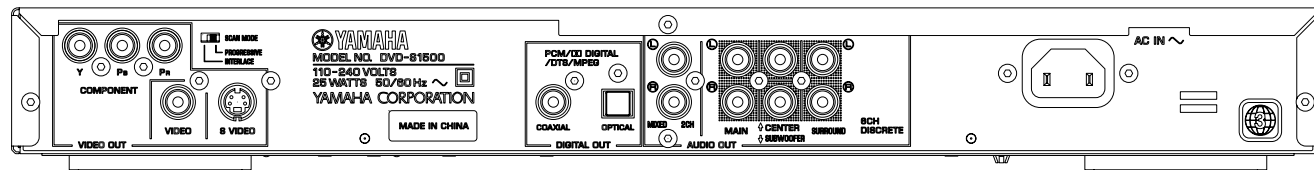


REAR PANELS

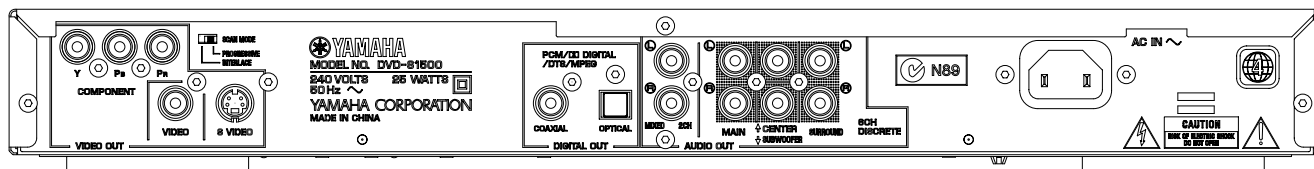
▼ DVD-S1500 (U model)



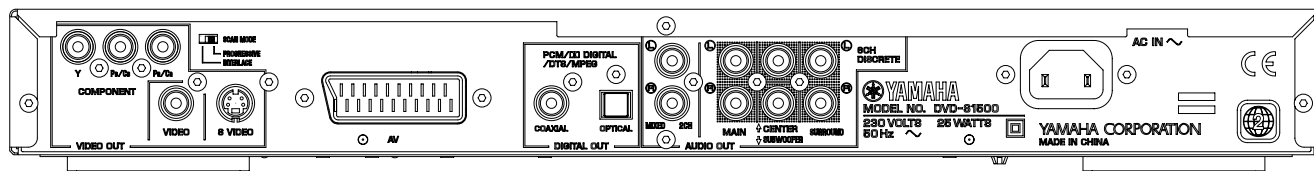
▼ DVD-S1500 (R model)



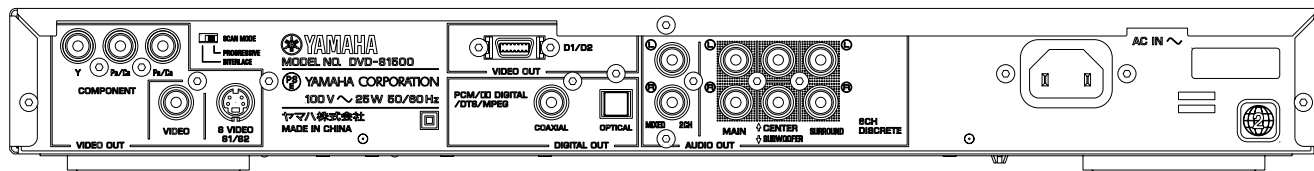
▼ DVD-S1500 (A model)



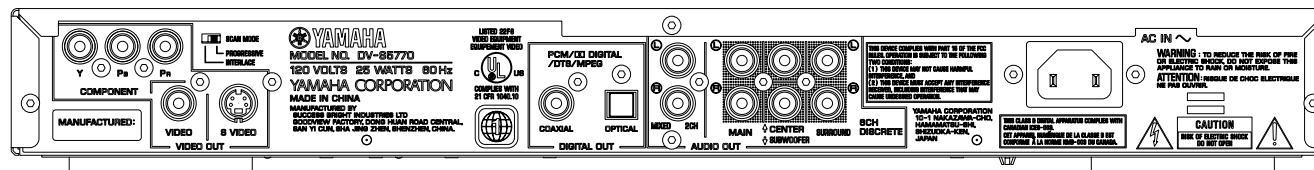
▼ DVD-S1500 (G model)



▼ DVD-S1500 (J model)



▼ DV-S5770 (U model)



■ SPECIFICATIONS / 参考仕様

PLAYBACK SYSTEM / 対応ディスク

DVD-Audio
 DVD-Video
 Super Audio-CD, Stereo/Multi-channel and Hybrid disc
 DVD+R, DVD+RW
 DVD-R, DVD-RW (Video Format)
 Video CD (VCD)
 Super Video CD (SVCD)
 CD-Audio (CD-DA)
 CD-R/CD-RW (CD-DA, VCD, SVCD)
 MP3, JPEG

VIDEO PERFORMANCE / ビデオ部

Video Output 1 Vpp into 75 ohm
 S-Video Output Y: 1Vpp into 75 ohm
 C: 0.3Vpp into 75 ohm (PAL)
 C: 0.286Vpp into 75 ohm (NTSC)
 Component Video Output Y: 1Vpp into 75 ohm
 Pb/Cb Pr/Cr: 0.7Vpp into 75 ohm
 RGB (SCART) Output 0.7 Vpp into 75 ohm (G model)
 D1/D2 Output D1: 1Vpp into 75 ohm (J model)
 D2: 0.7Vpp into 75 ohm (J model)

AUDIO FORMAT / オーディオフォーマット

DSD Multi-channel and Stereo
 Dolby Digital/DTS/MPEG Compressed Digital
 PCM/Packed PCM fs.48, 96, 192, and 44.1, 88.2
 176.4 kHz 16, 20, 24 bits
 MP3 (ISO9660) 32, 44.1, 48, and 16, 22.05, 24 kHz
 Full decoding of Dolby Digital, DTS and MPEG multi-channel sound/
 analogue stereo sound
 Dolby Surround-compatible downmix from Dolby Digital multi-channel
 sound
 3D Sound for virtual 5.1 channel sound on two speakers
 Dolby Pro Logic II 5.1 ch decoding from the stereo source

AUDIO PERFORMANCE / オーディオ特性

DA Converter 24 bits
 Signal-Noise Ratio 115 dB
 Dynamic Range (DVD 48 kHz 24 bit) 103 dB
 (Super Audio CD) 107 dB
 DVD fs 96 kHz 2 Hz – 44 kHz
 CD/VCD fs 44.1 kHz 2 Hz – 20 kHz
 Distortion and Noise (1 kHz) 0.0017% (DVD 48 kHz
 24 bit)

TV STANDARD (PAL/50Hz) (NTSC/60Hz)

Number of lines 625 525
 Playback Multistandard (PAL/NTSC)

CONNECTIONS / 接続端子

Y Output Cinch (green)
 Pb/Cb Output Cinch (blue)
 Pr/Cr Output Cinch (red)
 SCART Euroconnector (G model)
 D Terminal (J model)
 S-Video Output Mini DIN, 4 pins

Video Output Cinch (yellow)
 Audio Output (L+R) Cinch (white/red)
 Digital Output 1 coaxial, 1 optical
 6 channel Analog Output
 • Audio Main L/R Cinch (white/red)
 • Audio Surround L/R Cinch (white/red)
 • Audio Center Cinch (blue)
 • Audio Subwoofer Cinch (black)

GENERAL / 一般

Dimensions (w x h x d) 435 x 55 x 315 mm
 (17-1/8" x 2-3/16" x 12-3/8")
 Weight Approx. 3.2 Kg (7 lbs 1 oz)
 Finish
 • DVD-S1500 Gold Color (R, J models)
 Black Color (U, A, G models)
 Titanium Color (G model)
 • DV-S5770 Silver Color (U model)
 Power Supply AC120V, 60Hz (U model)
 AC230V, 50Hz (G model)
 AC240V, 50Hz (A model)
 AC110-240V, 50/60Hz (R model)
 AC100V, 50/60Hz (J model)
 Power Consumption 25W
 Standby Power Consumption (reference data) 1W

ACCESSORIES / 付属品

Remote Control, Batteries x 2, Power Cable
 Audio/Video Cable (U, R, A, J models)
 Audio Pin Cable (G model)
 Video Cable (G model)

*** Specifications subject to change without prior notice.**

U *USA model* G *European model*
 R *General model* J *Japanese model*
 A *Australian model*



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■ SERVICE HINTS / サービスヒント

● Repair Tips

1. DVD Module

The DVD mechanism and MONO board together as a set is called "DVD module". When a failure has occurred in the DVD module, it must be replaced as a complete set. Neither the DVD mechanism nor the MONO board can be replaced as an individual unit.

2. Power Supply Unit

When a failure has occurred in the power supply unit, it must be replaced.

3. PCB Assembly

When a failure has occurred in the FRONT, AV, PSCAN or HDMI D2 P.C.B., replace each P.C.B.

● 修理についての助言

1. DVD モジュール

DVD メカと MONO ボードをセットしたものを DVD モジュールと呼びます。

DVD モジュールに故障が発生した場合は、必ず DVD モジュールを交換してください。

DVD メカまたは、MONO ボードを単品で交換することはできません。

2. 電源ユニット

故障の場合は、電源ユニットを交換してください。

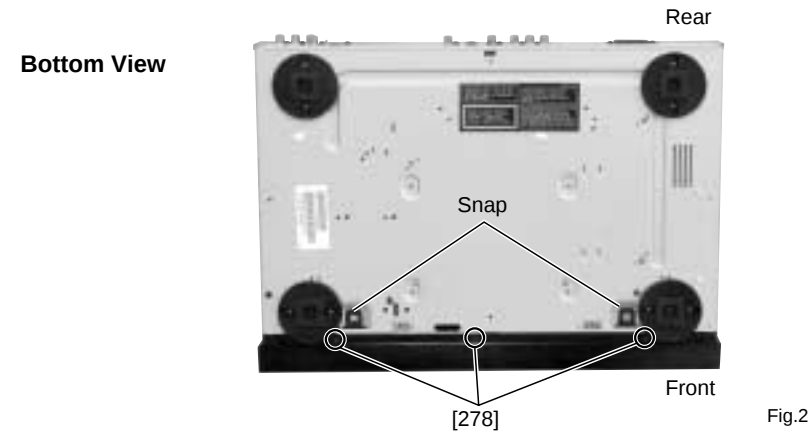
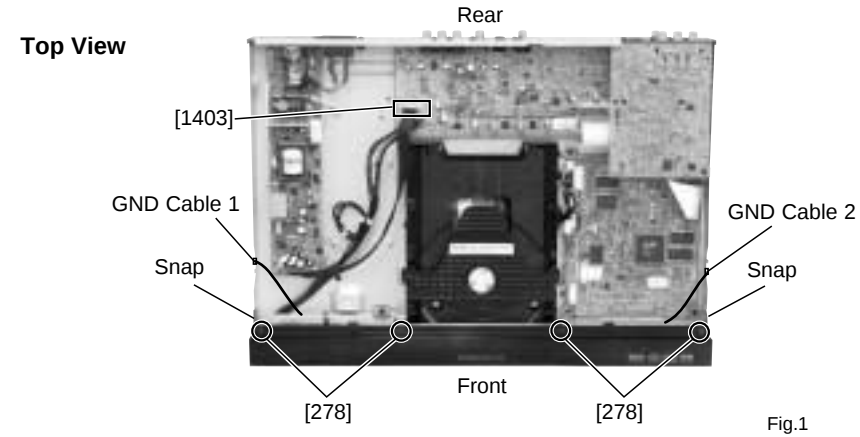
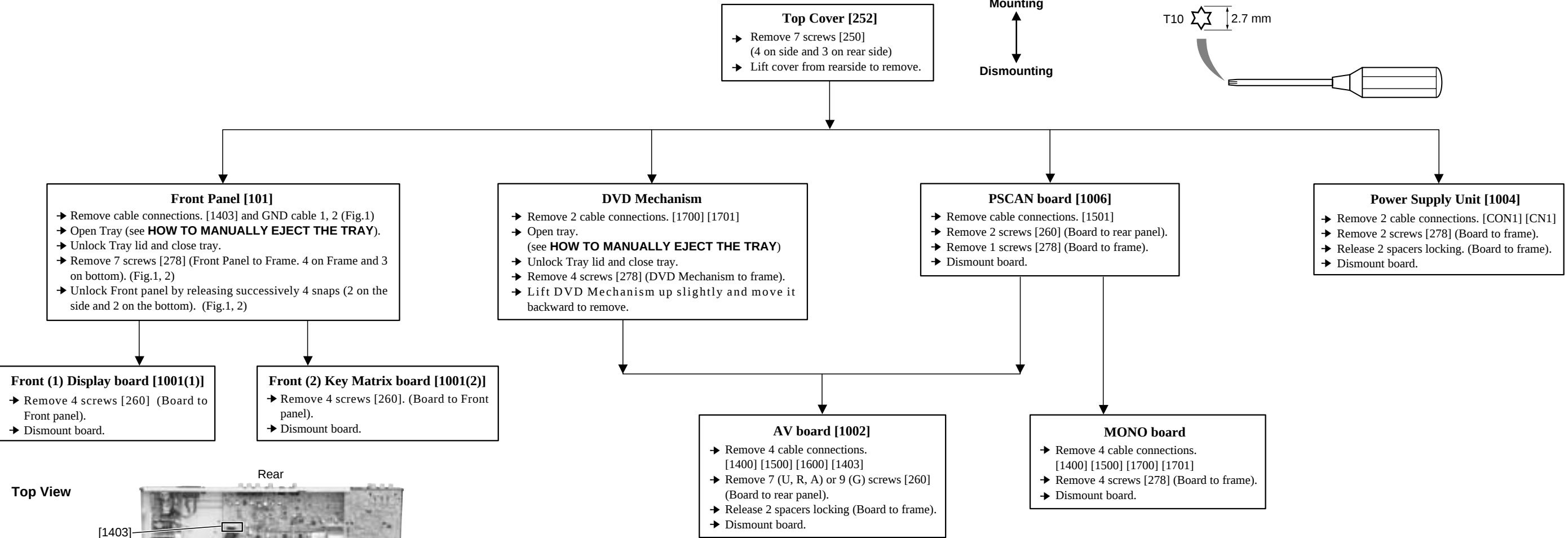
3. PCB Ass'y

FRONT ボード、AV ボード、PSCAN ボード、HDMI D2 ボードが故障の場合は、各 PCB を交換してください。

DISASSEMBLY PROCEDURES

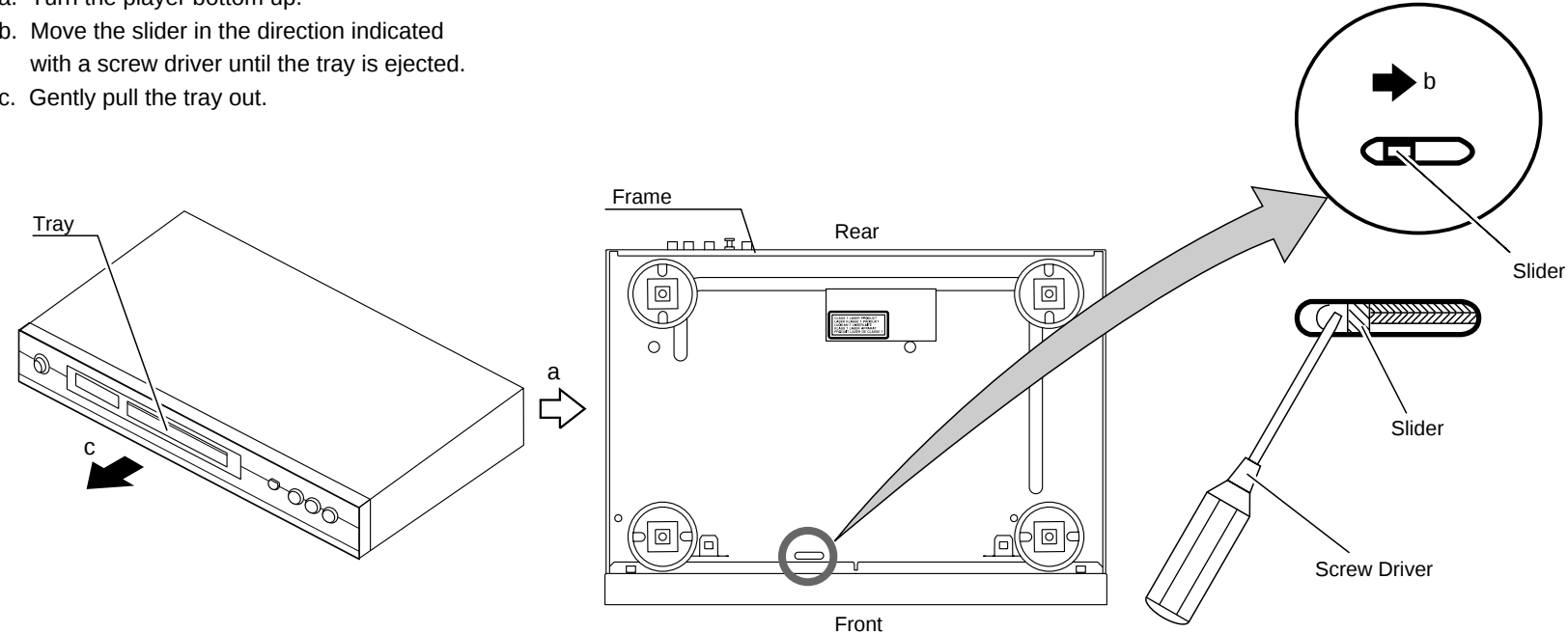
See EXPLODED VIEW for item numbers.

When disassembling, use the special screw driver with tip shape in figure.



HOW TO MANUALLY EJECT THE TRAY

- a. Turn the player bottom up.
- b. Move the slider in the direction indicated with a screw driver until the tray is ejected.
- c. Gently pull the tray out.



■ 分解手順

項目番号については分解図を参照してください。

分解には図のような特殊ドライバーを使用します。

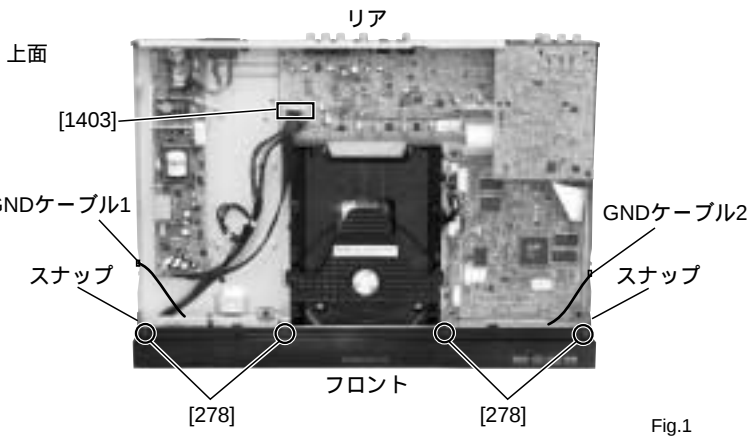
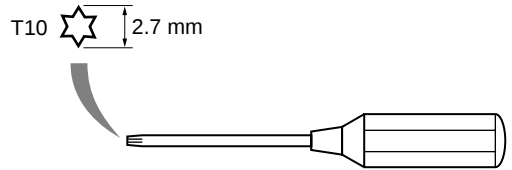
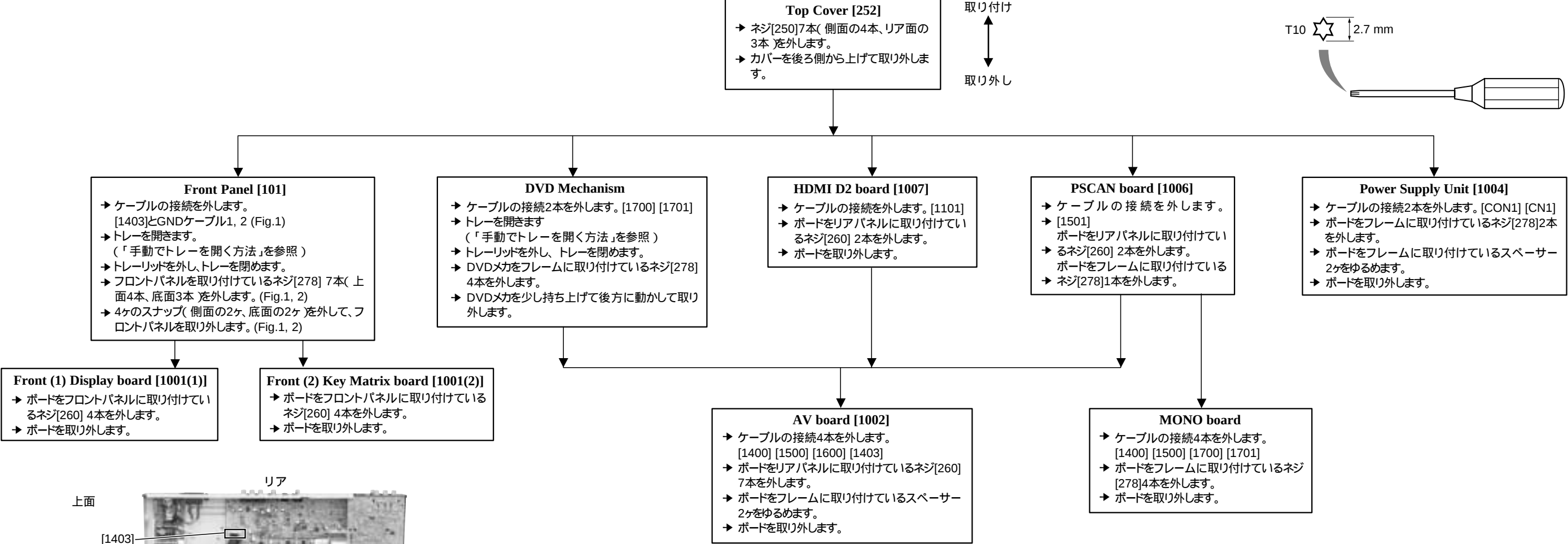


Fig.1

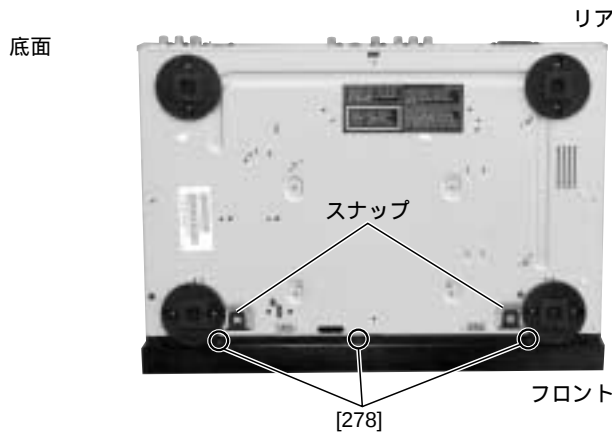
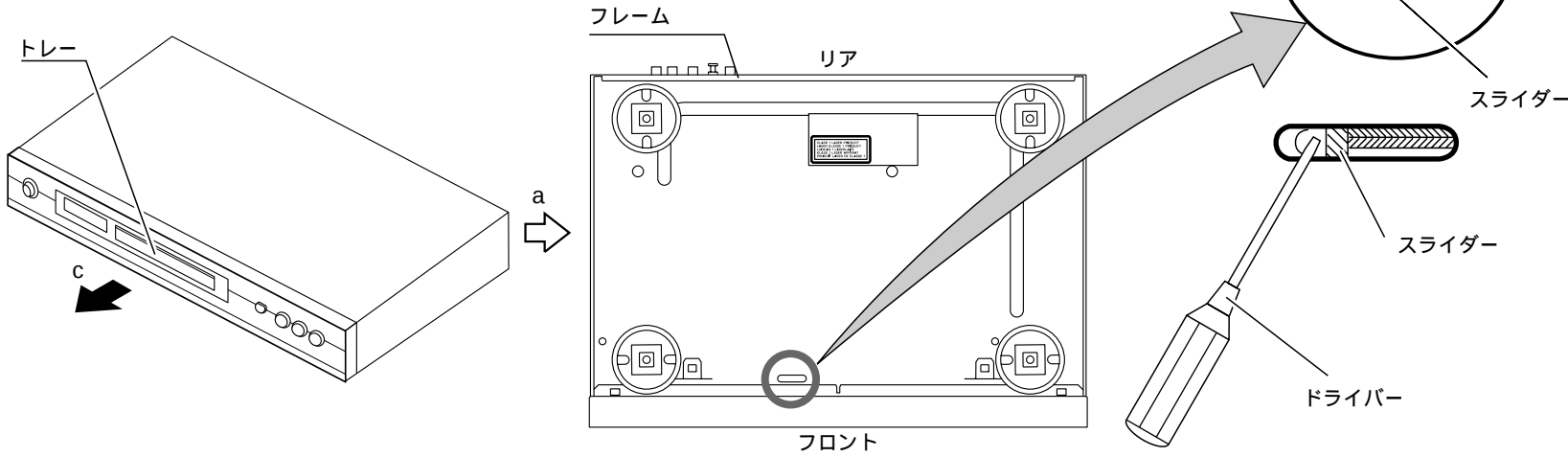


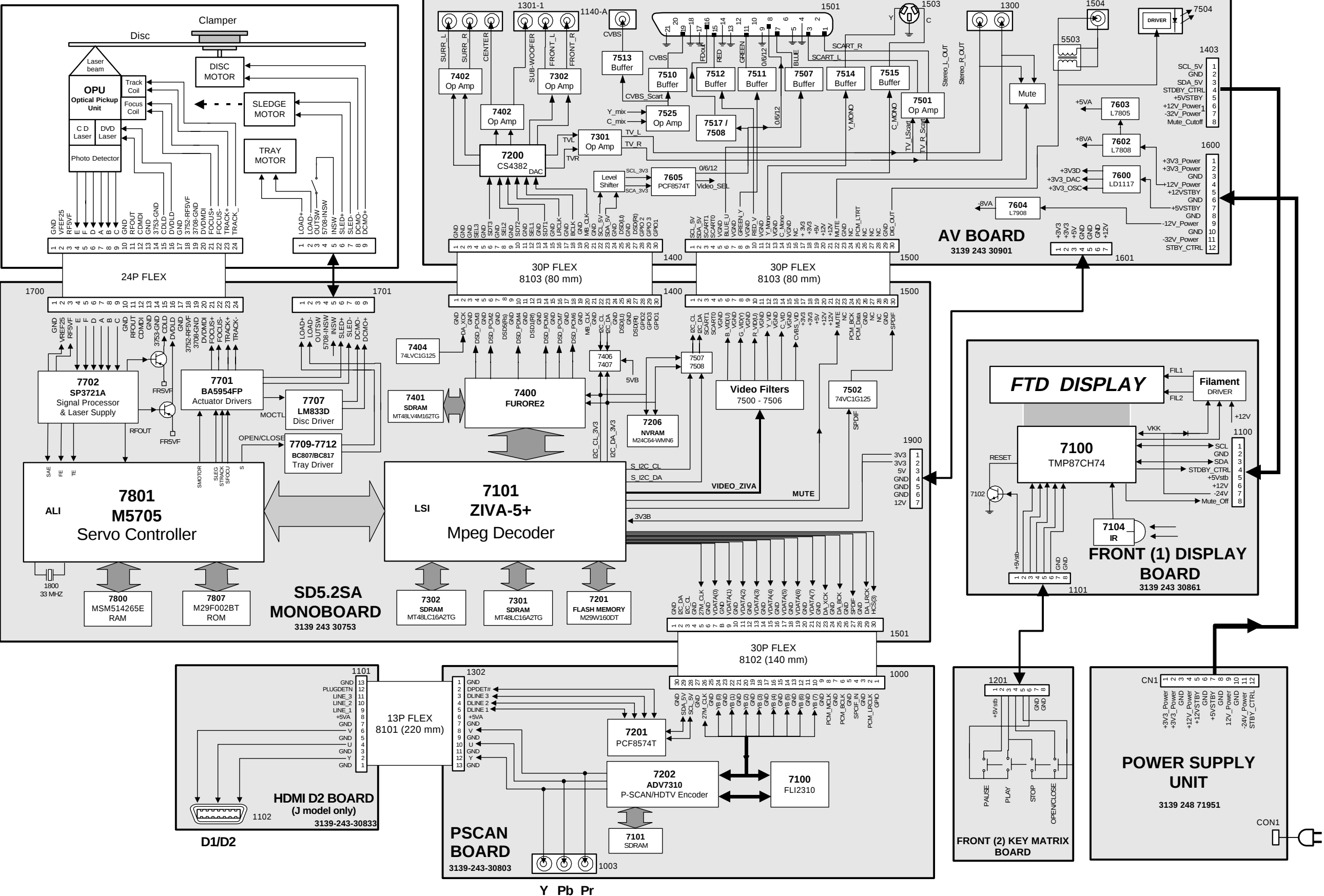
Fig.2

- 手動でトレーを開く方法
 - a. 本体を上下反転します。
 - b. トレーが出てくるまで、ドライバーでスライダーを図に示す矢印の方向に動かします。
 - c. トレーをそっと引き出します。



■ BLOCK DIAGRAM

DVD Mechanism
Actima A97HL loader

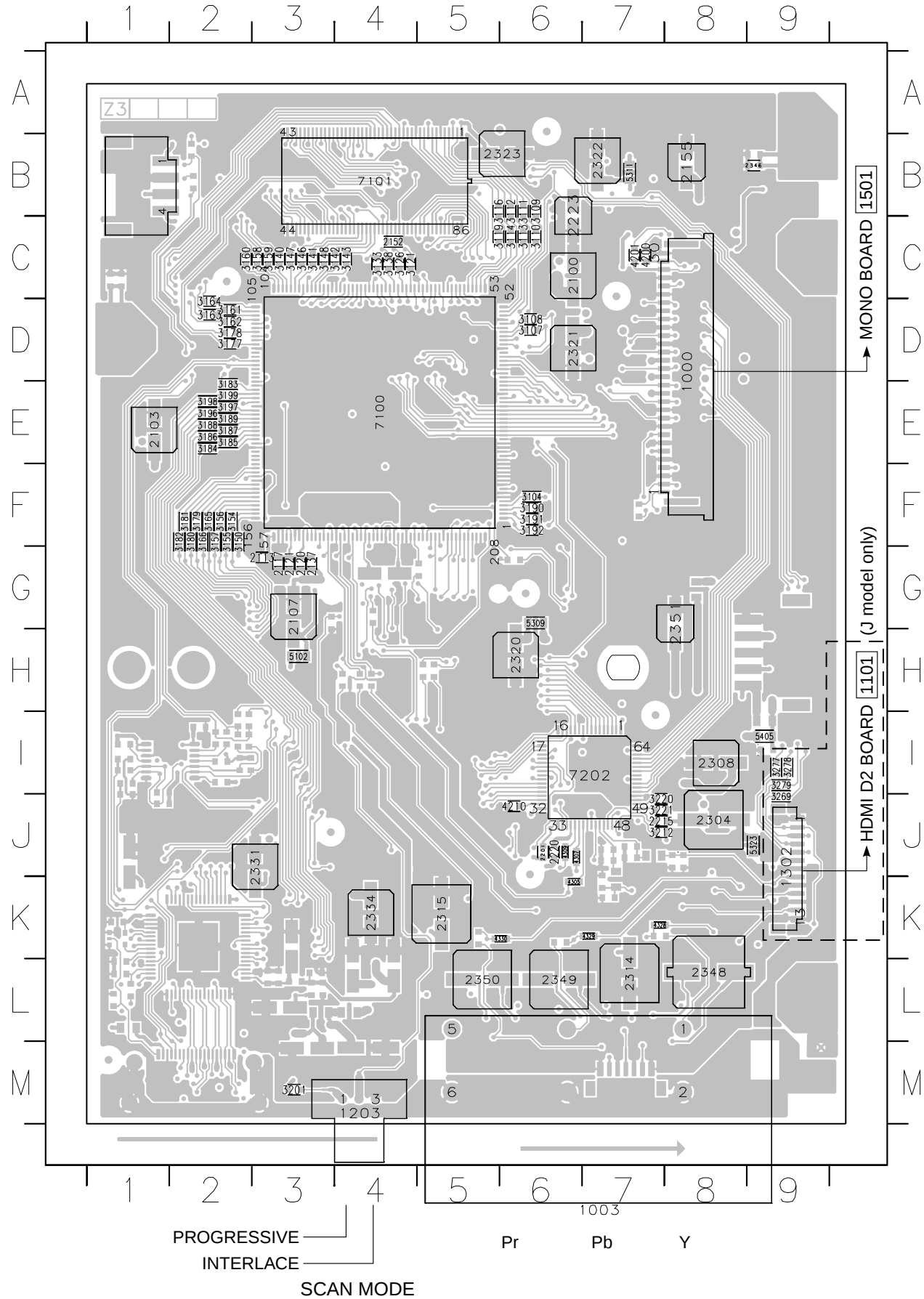


■ PRINTED CIRCUIT BOARD
FOR INFORMATION ONLY (NO SERVICE PARTS WILL BE AVAILABLE)

The first digit of a component indicates the component type.

- | | | | |
|------------------|-------------------|--------------|----------------------------|
| 1xxx : Connector | 3xxx : Resistor | 5xxx : Coil | 7xxx : IC, Transistor, FET |
| 2xxx : Capacitor | 4xxx : SMD jumper | 6xxx : Diode | 9xxx : Wire jumper |

PSCAN Board Top View



The first digit of a component indicates the component type.

■ PRINTED CIRCUIT BOARD
FOR INFORMATION ONLY (NO SERVICE PARTS WILL BE AVAILABLE)

1xxx : Connector

3xxx : Resistor

5xxx : Coil

7xxx : IC, Transistor, FET

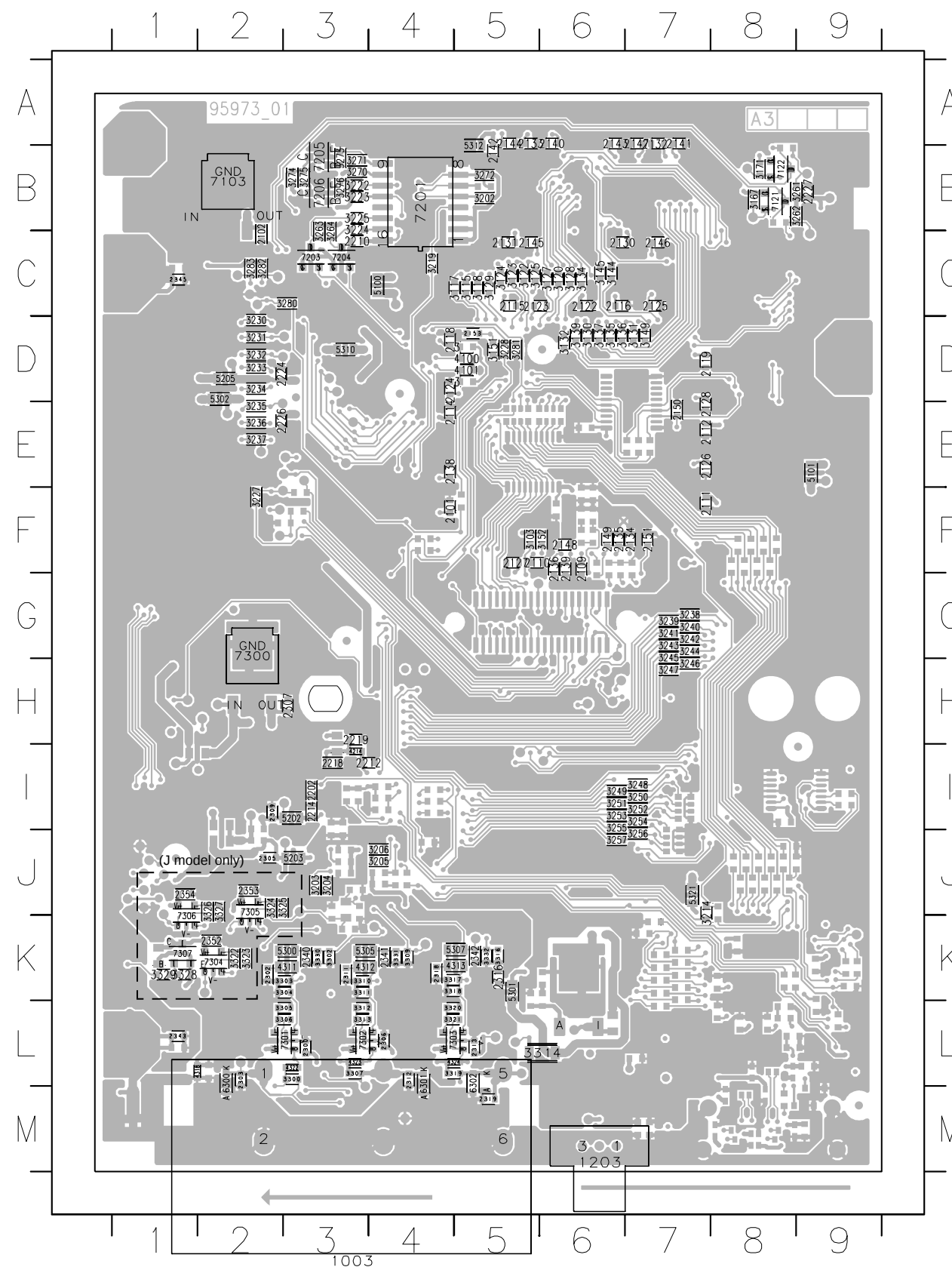
2xxx : Capacitor

4xxx : SMD jumper

6xxx : Diode

9xxx : Wire jumper

PSCAN Board Bottom View



2101	F4	2343	L1	3228	D5	3332	K5
2102	C2	2345	C1	3230	D2	4100	D5
2109	F6	2352	K2	3231	D2	4101	D5
2110	F5	2353	J2	3232	D2	4214	I3
2111	F7	2354	J1	3233	D2	4311	K3
2112	E7	3103	F5	3234	D2	4312	K3
2114	E4	3115	C5	3235	E2	4313	K5
2115	C5	3117	C5	3236	E2	4318	L1
2116	C6	3120	C6	3237	E2	4322	L3
2118	D4	3122	C5	3238	G7	4323	L3
2119	D7	3123	C5	3239	G7	4324	L4
2122	C6	3124	C5	3240	G7	5100	C4
2123	C5	3125	C5	3241	G7	5101	E9
2124	D4	3127	C6	3242	G7	5202	I3
2125	C7	3128	C6	3243	G7	5203	J3
2126	E7	3129	C5	3244	G7	5205	D2
2127	F5	3130	D6	3245	G7	5300	K3
2128	E7	3131	D7	3246	H7	5301	K5
2130	C6	3132	D6	3247	H7	5302	D3
2131	C5	3134	C6	3248	I7	5305	K2
2132	A7	3135	D6	3249	I6	5307	K5
2133	A5	3136	D6	3250	I7	5310	D3
2134	F7	3137	D6	3251	I6	5312	B5
2135	F6	3139	D6	3252	I7	5321	J7
2136	F6	3144	C6	3253	I6	6300	L4
2138	E4	3145	C6	3254	I7	6301	L4
2139	F6	3149	D7	3255	I6	6302	L5
2140	A6	3151	D5	3256	J7	7103	B2
2141	A7	3152	F6	3257	J6	7121	B8
2142	B5	3167	B8	3261	B9	7122	B8
2143	A6	3171	B8	3262	B9	7201	B4
2144	A5	3202	B5	3263	C3	7203	C3
2145	C5	3203	J3	3264	C3	7204	C3
2146	C7	3204	J3	3270	B3	7205	B3
2147	A7	3205	J4	3271	B3	7206	B3
2148	F6	3206	J4	3272	B5	7300	G2
2149	F6	3214	J7	3273	B3	7301	L3
2150	E7	3218	B5	3274	B3	7302	L3
2151	F7	3219	C4	3275	B3	7303	L4
2153	D5	3222	B3	3276	B3	7304	K2
2202	I3	3223	B3	3280	C3	7305	J2
2210	C3	3224	B3	3281	D5	7306	K1
2212	I3	3225	B3	3282	C2	7307	K1
2214	I3	3227	F2	3283	C2		
2216	J3			3300	L3		
2217	I3			3302	K3		
2218	I3			3303	K3		
2219	H3			3304	K3		
2224	D2			3305	L3		
2226	E2			3306	L3		
2227	B9			3307	L3		
2300	L3			3309	K4		
2302	K2			3310	K3		
2303	L2			3311	K3		
2305	J2			3312	L3		
2306	L4			3313	L3		
2307	H3			3314	L6		
2309	I2			3316	K5		
2311	K3			3317	K4		
2312	L4			3318	K4		
2313	L5			3319	L4		
2316	K5			3320	L4		
2318	K4			3321	L4		
2319	M5			3322	K2		
2340	K3			3323	K2		
2341	K4			3324	J2		
2342	K5			3325	J2		
				3326	J2		
				3327	J2		
				3328	K1		

1xxx : Connector	3xxx : Resistor	5xxx : Coil	7xxx : IC, Transistor, FET
2xxx : Capacitor	4xxx : SMD jumper	6xxx : Diode	9xxx : Wire jumper

3139-243-30861-01
8239-210-96701-01

1100

8

STANDBY
1110

2107

8

1101

1

2116

2110

1103

1

3

2118

C2

7106

7105

2121

2124

1135

7104

1

3

1134

6110

6111

6112

1102

X

32

1

AV BOARD 1403

FRONT (2) KEY MATRIX BOARD 1201

1 2 3 4

A B

1	1	0	A	1
1	1	0	A	1
1	1	0	A	3
1	1	0	A	2
1	1	1	A	1
1	1	3	A	2
1	1	3	A	4
2	1	0	A	1
2	1	1	A	2
2	1	1	A	2
2	1	1	A	3
2	1	2	A	4
6	1	1	A	2
6	1	1	A	2
7	1	0	A	4
7	1	0	A	3
7	1	0	A	3

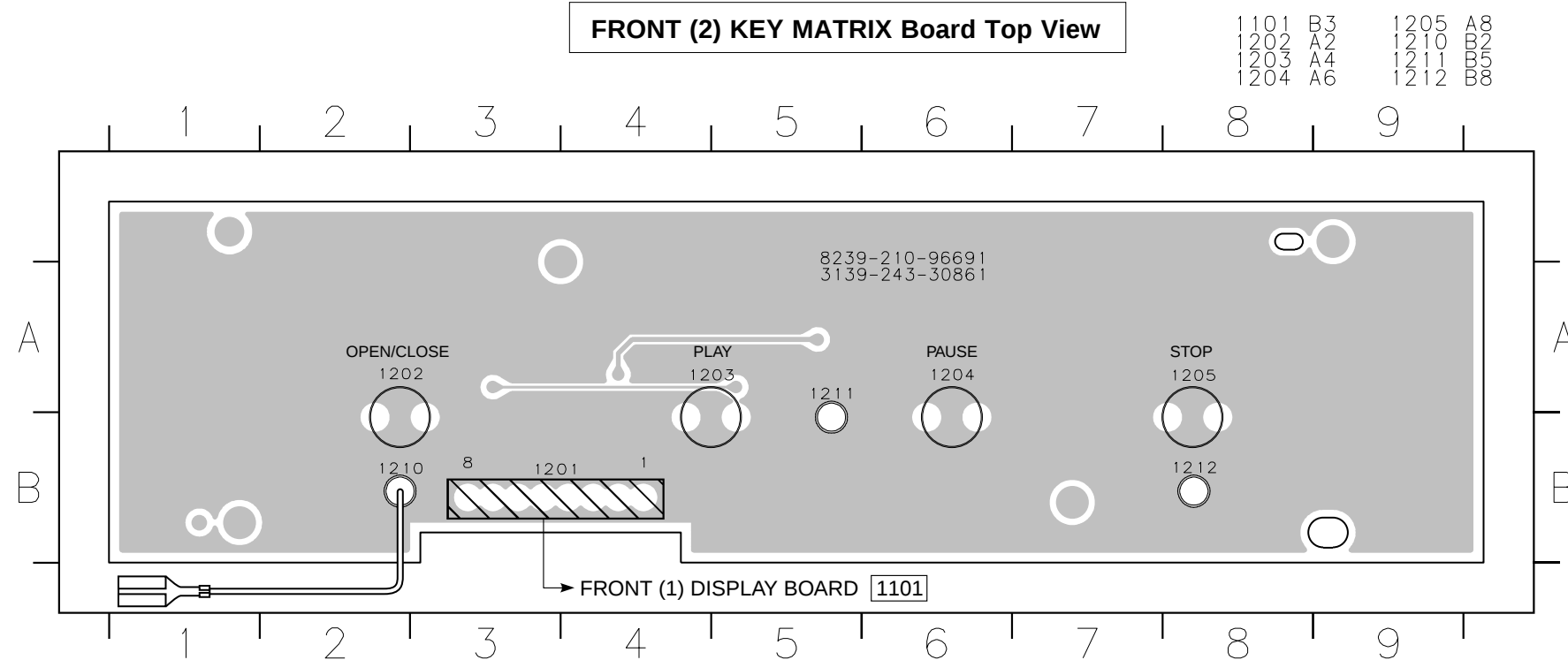
2	1	0	A	3	3	1	2	5	A	3
2	1	0	A	2	3	1	2	6	A	3
2	1	0	A	2	3	1	2	7	A	2
2	1	0	A	2	3	1	2	8	A	2
2	1	0	A	3	3	1	2	9	A	3
2	1	0	A	6	3	1	3	0	A	1
2	1	0	A	8	3	1	3	3	A	1
2	1	1	A	3	3	1	3	4	A	1
2	1	1	A	3	3	1	3	5	A	1
2	1	1	A	3	3	1	3	6	A	1
2	1	1	A	3	3	1	3	7	A	3
2	1	1	A	1	3	1	3	8	A	3
2	1	2	A	1	3	1	3	9	A	3
3	1	0	A	1	3	1	4	3	A	3
3	1	0	A	1	3	1	4	4	A	3
3	1	0	A	1	3	1	4	5	A	3
3	1	0	A	3	3	1	4	6	A	3
3	1	1	A	3	3	1	4	7	A	3
3	1	1	A	3	3	1	4	8	A	3
3	1	1	A	3	3	1	4	9	A	3
3	1	1	A	3	4	1	0	0	A	4
3	1	1	A	4	6	1	0	0	A	4
3	1	1	A	3	6	1	0	1	A	4
3	1	1	A	3	6	1	0	3	A	3
3	1	1	A	3	6	1	0	4	A	1
3	1	1	A	4	7	1	0	0	A	2
3	1	2	A	3	7	1	0	2	A	3
3	1	2	A	4	7	1	0	7	A	1

■ PRINTED CIRCUIT BOARD
FOR INFORMATION ONLY (NO SERVICE PARTS WILL BE AVAILABLE)

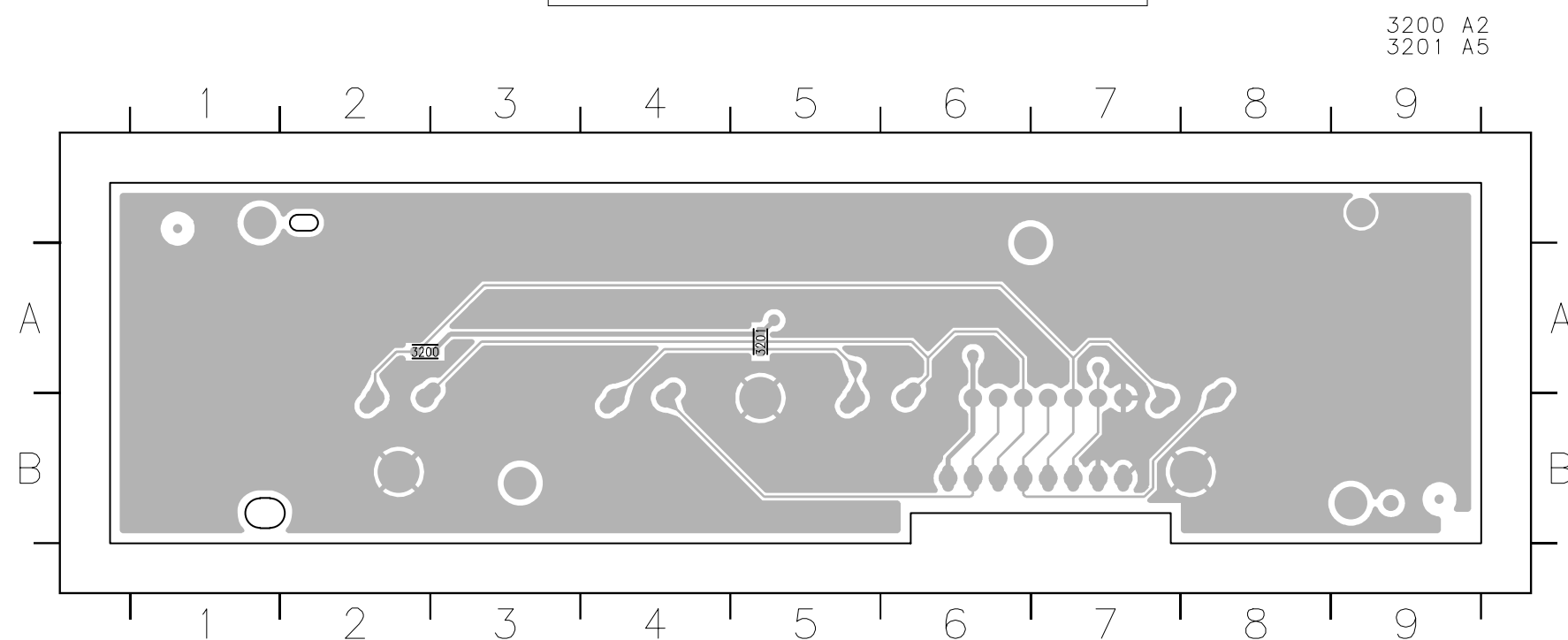
The first digit of a component indicates the component type.

1xxx : Connector	3xxx : Resistor	5xxx : Coil	7xxx : IC, Transistor, FET
2xxx : Capacitor	4xxx : SMD jumper	6xxx : Diode	9xxx : Wire jumper

FRONT (2) KEY MATRIX Board Top View

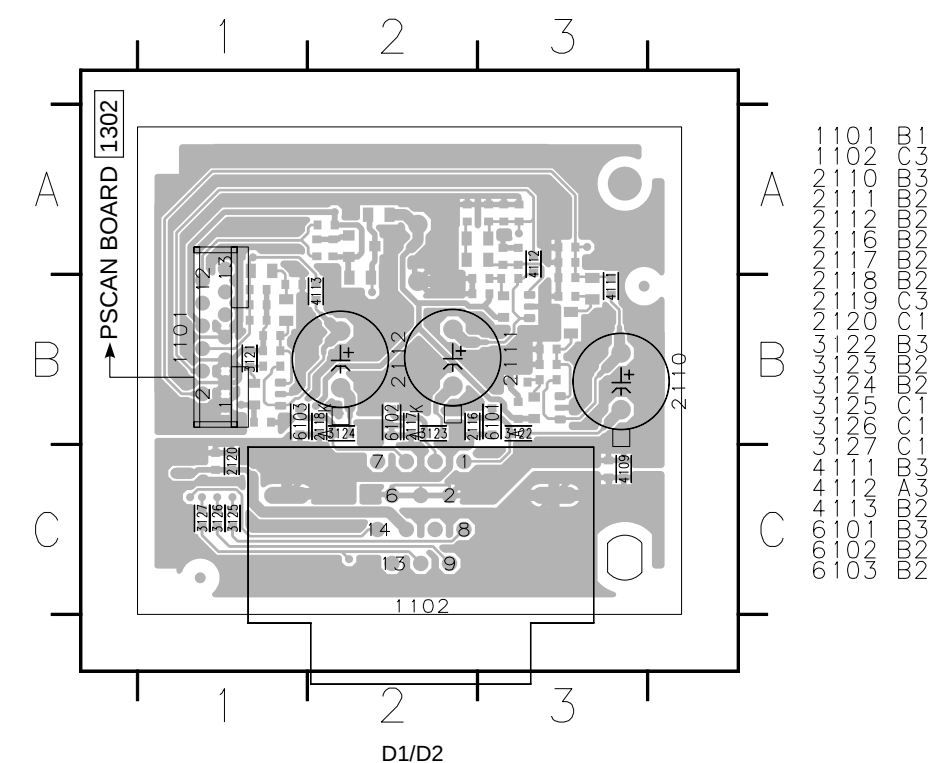


FRONT (2) KEY MATRIX Board Bottom View



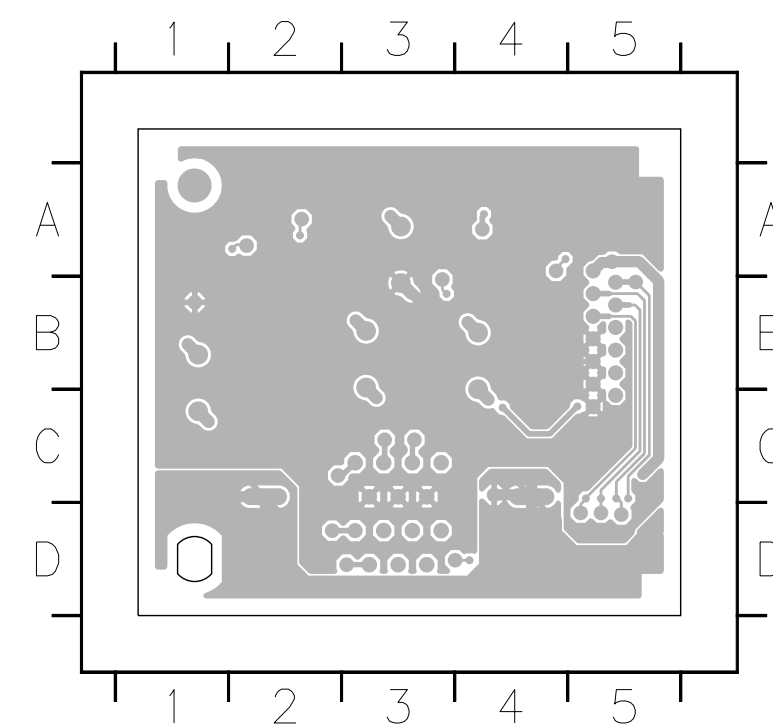
HDMI D2 Board Top View

(J model only)



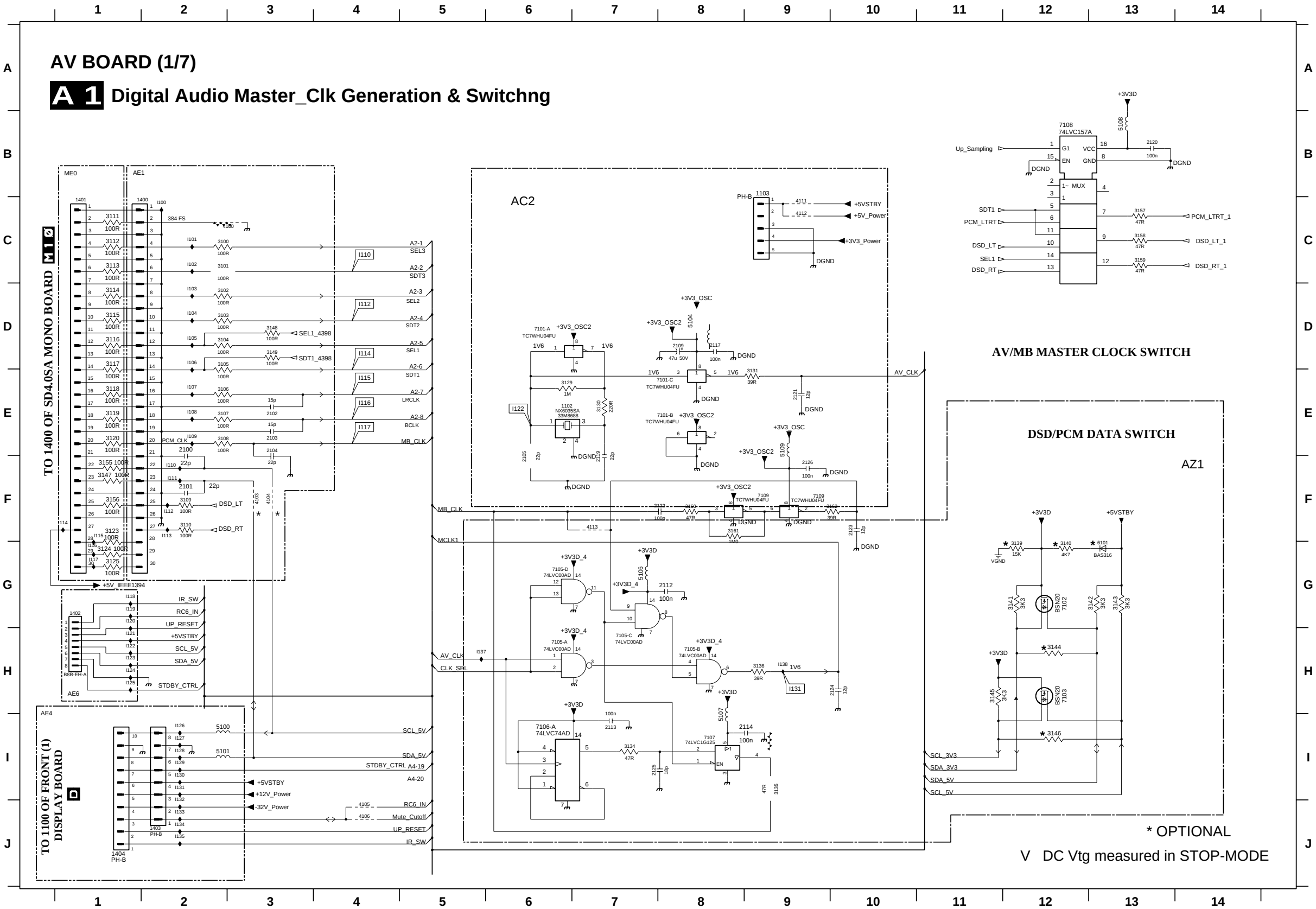
HDMI D2 Bottom View

(J model only)



■ SCHEMATIC DIAGRAM
FOR INFORMATION ONLY (NO SERVICE PARTS WILL BE AVAILABLE)

The first digit of a component indicates the component type.
1xxx : Connector 3xxx : Resistor 5xxx : Coil 7xxx : IC, Transistor, FET
2xxx : Capacitor 4xxx : SMD jumper 6xxx : Diode 9xxx : Wire jumper



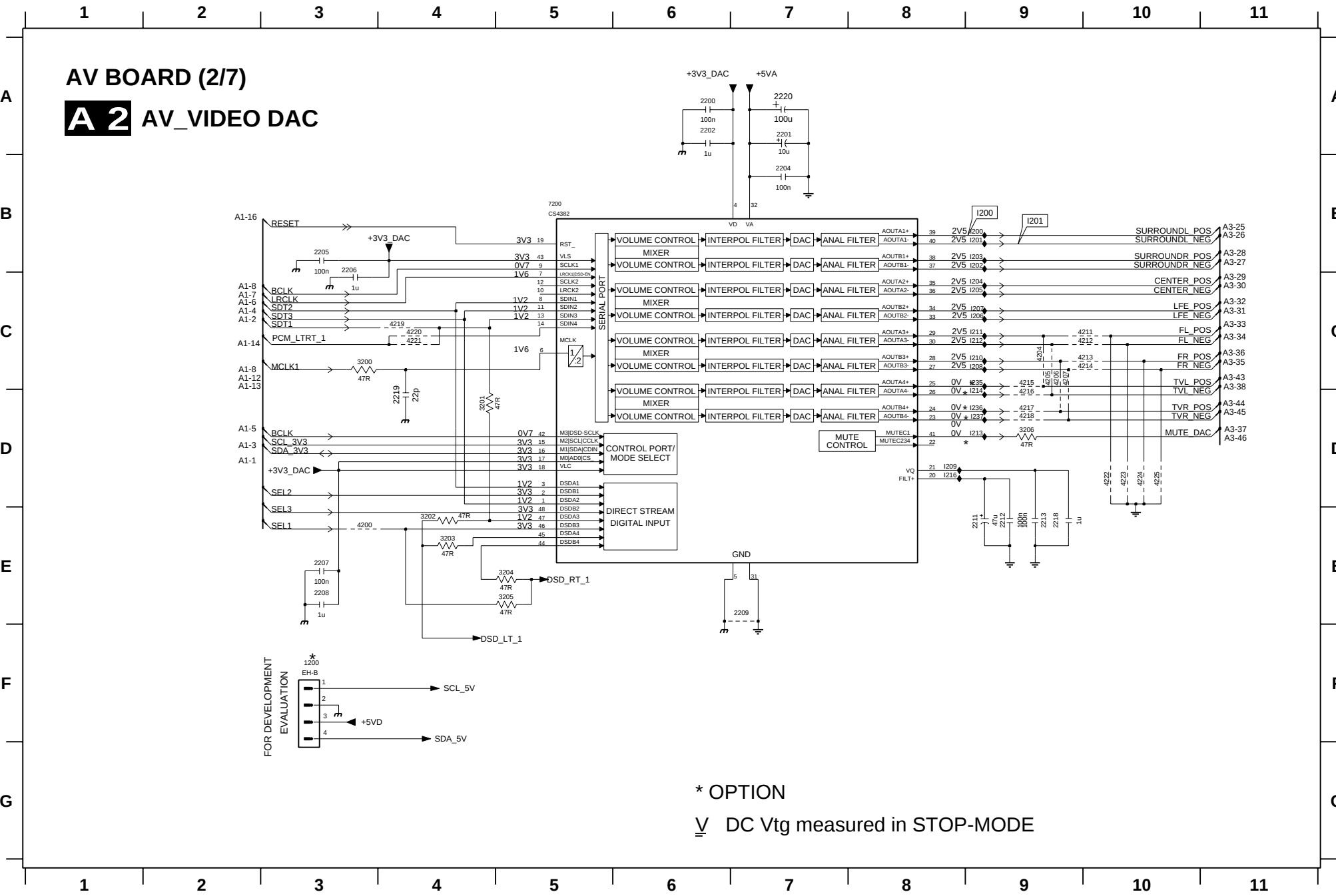
- I102 E6
- I103 B9
- I100 C2
- I101 C1
- I102 G1
- I103 J2
- I104 J1
- I105 E2
- I106 F2
- I107 E3
- I108 E3
- I109 E3
- I110 E3
- I111 F6
- I112 J2
- I113 J2
- I114 H9
- I115 F1
- I116 G1
- I117 G1
- I118 G1
- I119 G1
- I120 G1
- I121 H1
- I122 H1
- I123 H1
- I124 H1
- I125 H1
- I126 I2
- I127 I2
- I128 I2
- I129 I2
- I130 I2
- I131 I2
- I132 I2
- I133 J2
- I134 J2
- I135 J2
- I137 H5
- I138 H9

CLK_SEL	M_CLK
Hi	AV_CLK
Low	MB_CLK

* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

■ SCHEMATIC DIAGRAM
FOR INFORMATION ONLY (NO SERVICE PARTS WILL BE AVAILABLE)

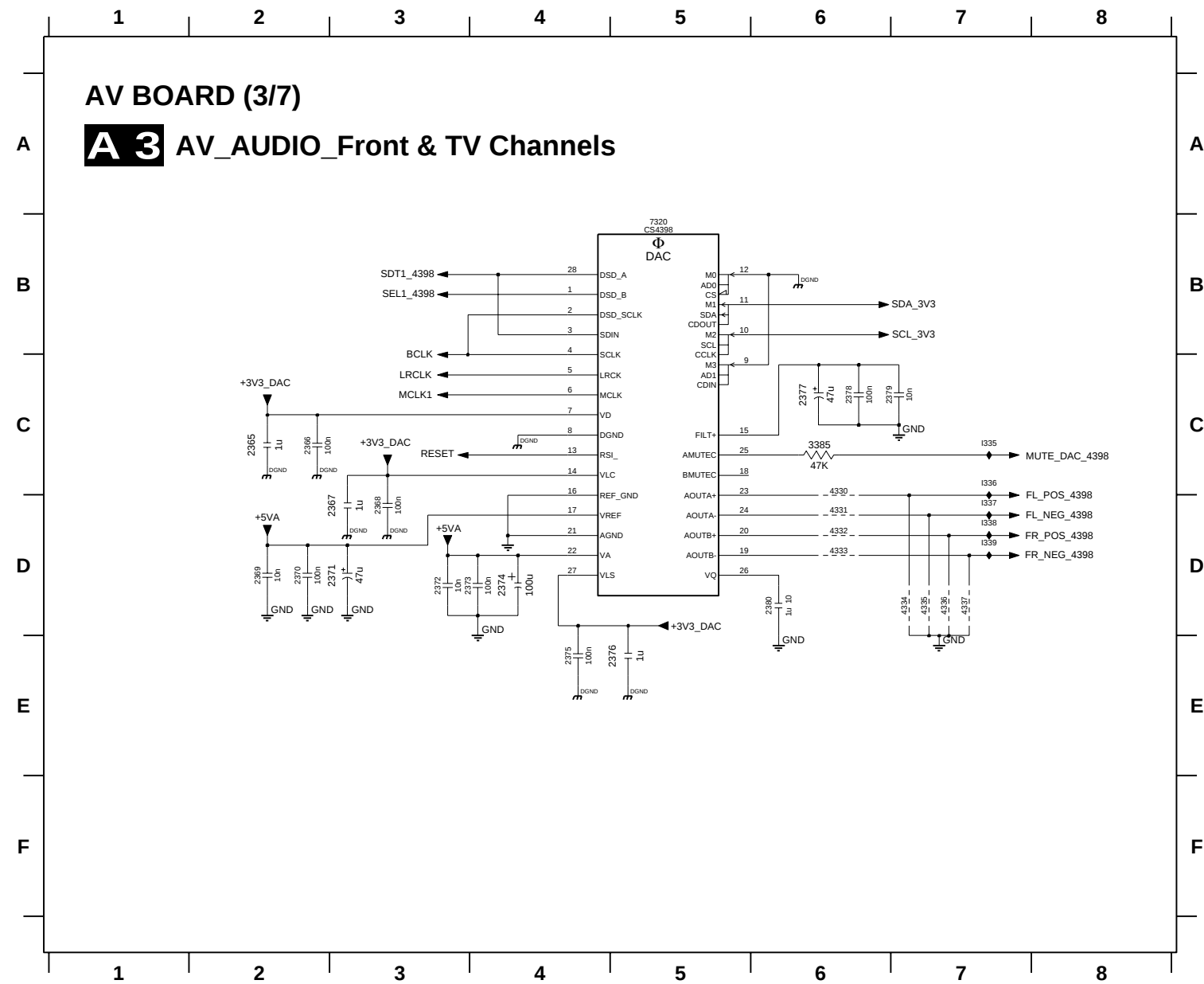
The first digit of a component indicates the component type.
1xxx : Connector 3xxx : Resistor 5xxx : Coil 7xxx : IC, Transistor, FET
2xxx : Capacitor 4xxx : SMD jumper 6xxx : Diode 9xxx : Wire jumper



- 1200 F3
- 2200 A6
- 2201 A7
- 2202 A6
- 2204 B7
- 2205 B3
- 2206 C3
- 2207 E3
- 2208 E3
- 2209 E7
- 2211 E9
- 2212 E9
- 2213 E9
- 2218 E9
- 2219 D4
- 2220 A7
- 3200 C3
- 3201 D4
- 3202 E4
- 3203 E4
- 3204 E5
- 3205 E5
- 3206 D9
- 4200 E3
- 4204 C9
- 4205 C9
- 4206 C9
- 4207 C9
- 4211 C10
- 4212 C10
- 4213 C10
- 4214 C10
- 4215 C9
- 4216 D9
- 4217 D9
- 4218 D9
- 4219 C4
- 4220 C4
- 4221 C4
- 4222 D10
- 4223 D10
- 4224 D10
- 4225 D10
- 7200 B5
- 1200 B9
- 1201 B9
- 1202 B9
- 1203 B9
- 1204 C9
- 1205 C9
- 1206 C9
- 1207 C9
- 1208 C9
- 1209 D8
- 1210 C9
- 1211 C9
- 1212 C9
- 1213 D9
- 1214 D9
- 1216 D8
- 1235 C9
- 1236 D9
- 1237 D9

* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

1xxx : Connector	3xxx : Resistor	5xxx : Coil	7xxx : IC, Transistor, FET
2xxx : Capacitor	4xxx : SMD jumper	6xxx : Diode	9xxx : Wire jumper



2365 C2
2366 C2
2367 D3
2368 D3
2369 D2
2370 D2
2371 D3
2372 D3
2373 D4
2374 D4
2375 E4
2376 E5
2377 C6
2378 C6
2379 C7
2380 D6
2385 C6
4330 C6
4331 D6
4332 D6
4333 D6
4334 D7
4335 D7
4336 D7
4337 D7
7320 B5
I335 C7
I336 C7
I337 D7
I338 D7
I339 D7

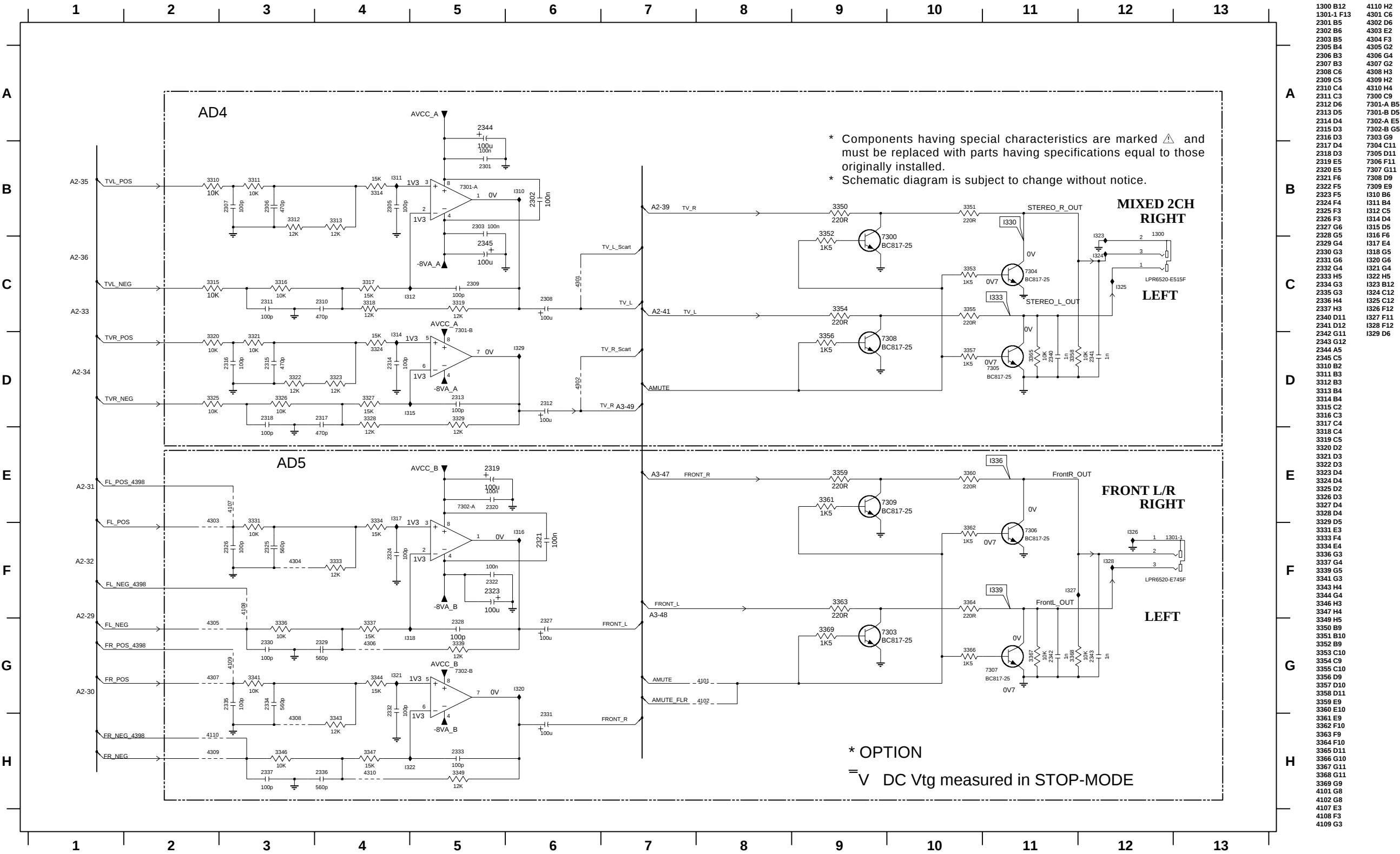
18

■ SCHEMATIC DIAGRAM
FOR INFORMATION ONLY (NO SERVICE PARTS WILL BE AVAILABLE)

The first digit of a component indicates the component type.
1xxx : Connector 3xxx : Resistor 5xxx : Coil 7xxx : IC, Transistor, FET
2xxx : Capacitor 4xxx : SMD jumper 6xxx : Diode 9xxx : Wire jumper

AV BOARD (4/7)

A 4 AV_AUDIO_Front & TV Channels



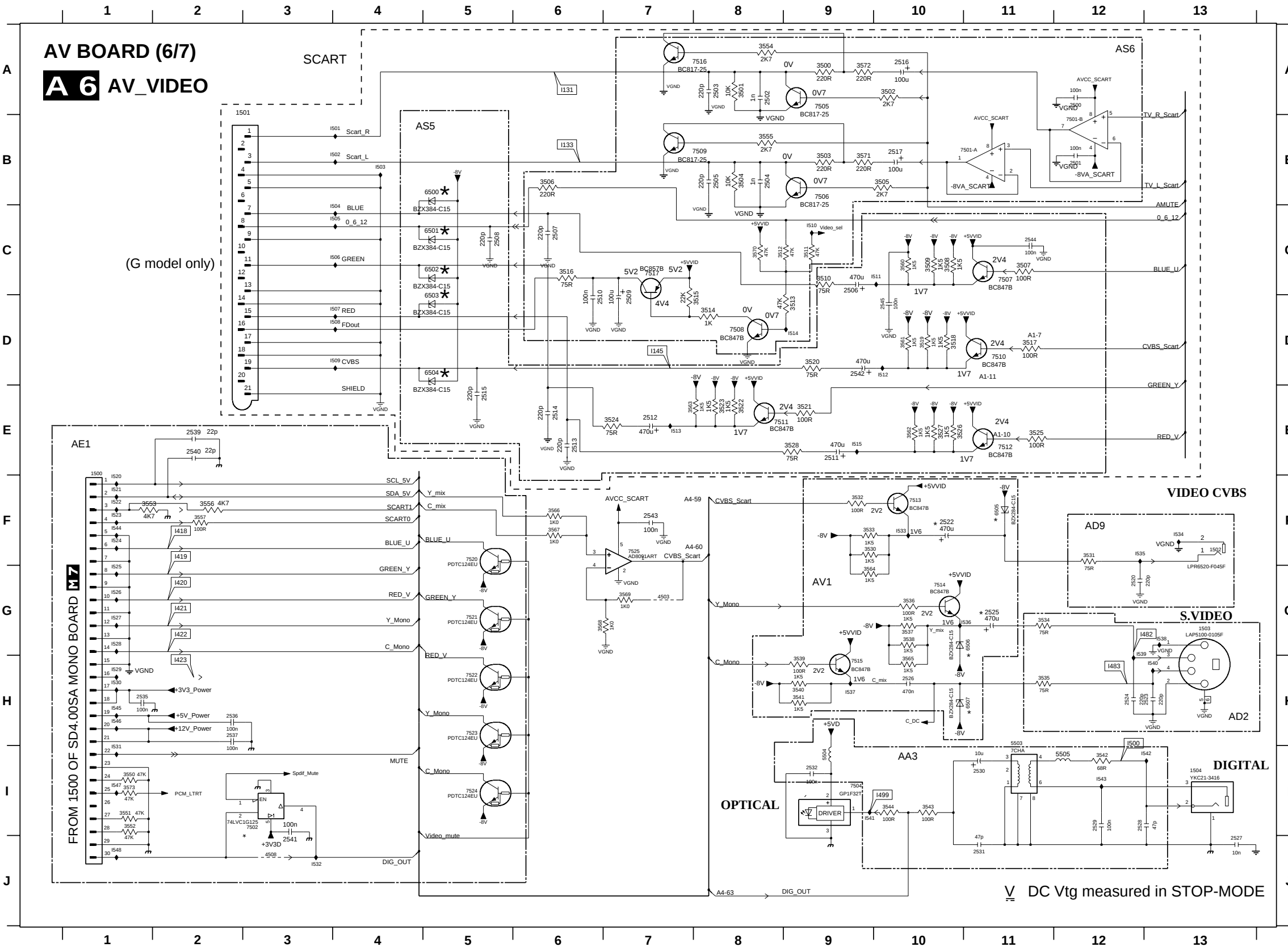
1xxx : Connector	3xxx : Resistor	5xxx : Coil	7xxx : IC, Transistor, FET
2xxx : Capacitor	4xxx : SMD jumper	6xxx : Diode	9xxx : Wire jumper

A 5 AV_AUDIO_C/FE & Surround Channels



■ SCHEMATIC DIAGRAM
FOR INFORMATION ONLY (NO SERVICE PARTS WILL BE AVAILABLE)

The first digit of a component type.
1xxx : Connector 3xxx : Resistor 5xxx : Coil 7xxx : IC, Transistor, FET
2xxx : Capacitor 4xxx : SMD jumper 6xxx : Diode 9xxx : Wire jumper



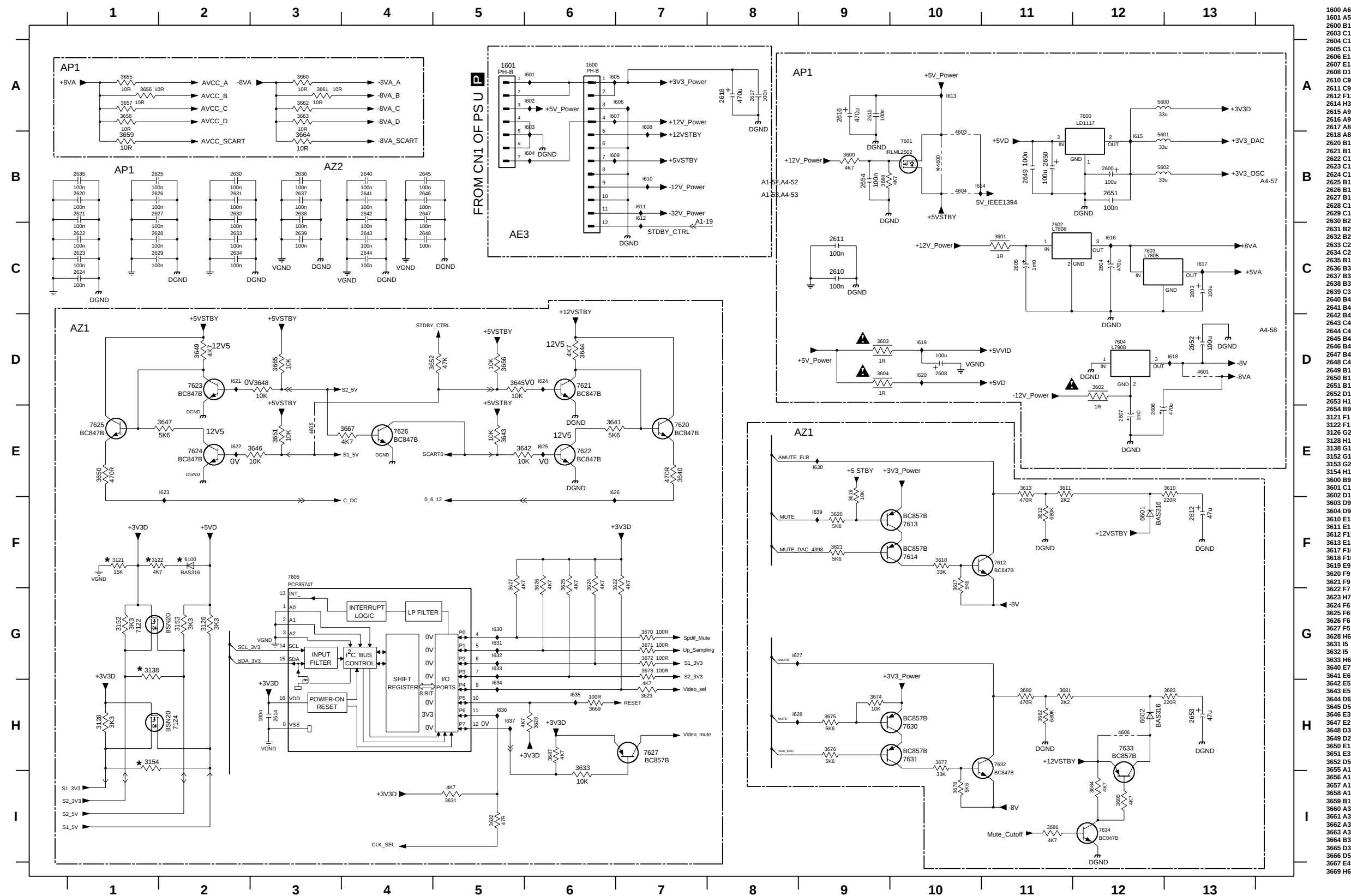
1500 F1	6503 D5
1501 A3	6504 D5
1502 F13	6505 F11
1503 G13	6506 G11
1504 I13	6507 H11
2500 A12	7501-A B11
2501 B12	7501-B B12
2502 A8	7502 I3
2503 A8	7504 I9
2504 B8	7505 A9
2505 B8	7506 B9
2506 C9	7507 C11
2507 C6	7508 D8
2508 C5	7509 B8
2509 D7	7510 D11
2510 D6	7511 E9
2511 E9	7512 E11
2512 E7	7513 F10
2513 E6	7514 G10
2514 E6	7515 H9
2515 E5	7516 A8
2516 A10	7517 C7
2517 B10	7520 F5
2520 G12	7521 G5
2522 F10	7522 H5
2523 H13	7523 H5
2524 H12	7524 I5
2525 G11	7525 F7
2526 H10	7526 H10
2527 J13	7527 J13
2528 I12	7528 I12
2529 I12	7529 I12
2530 I11	7530 C4
2531 J11	7531 J11
2532 I9	7532 I9
2535 H1	7535 H1
2536 H2	7536 H2
2537 H2	7537 H2
2539 E2	7539 E2
2540 E2	7540 E2
2541 J3	7541 J3
2542 D9	7542 D9
2543 F7	7543 F7
2544 C11	7544 C11
2545 D10	7545 D10
3500 A9	7546 A9
3501 A8	7547 A8
3502 A10	7548 A10
3503 B9	7549 B9
3504 B8	7550 B8
3505 B10	7551 B10
3506 B6	7552 B6
3507 C11	7553 C11
3508 C10	7554 C10
3509 C10	7555 C10
3510 C9	7556 C9
3511 C9	7557 C9
3512 C8	7558 C8
3513 D9	7559 D9
3514 D8	7560 D8
3515 D8	7561 D8
3516 C6	7562 C6
3517 D11	7563 D11
3518 D10	7564 D10
3519 D10	7565 D10
3520 D9	7566 D9
3521 E9	7567 E9
3522 E8	7568 E8
3523 E8	7569 E8
3524 E7	7570 E7
3525 E11	7571 E11
3526 E10	7572 E10
3527 E10	7573 E10
3528 E9	7574 E9
3530 F9	7575 F9
3531 F12	7576 F12
3532 F9	7577 F9
3533 F9	7578 F9
3534 G11	7579 G11
3535 H11	7580 H11
3536 G10	7581 G10
3537 G10	7582 G10
3538 G10	7583 G10
3539 H9	7584 H9
3540 H9	7585 H9
3541 H9	7586 H9
3542 I12	7587 I12
3543 I10	7588 I10
3544 I10	7589 I10
3550 I1	7590 I1
3551 I1	7591 I1
3552 I1	7592 I1
3553 F1	7593 F1
3554 A8	7594 A8
3555 B8	7595 B8
3556 F2	7596 F2
3557 F2	7597 F2
3560 C10	7598 C10
3561 D10	7599 D10
3562 E10	7600 E10
3563 E7	7601 E7
3564 G9	7602 G9
3565 H10	7603 H10
3566 F6	7604 F6
3567 F6	7605 F6
3568 G6	7606 G6
3569 G7	7607 G7
3570 C8	7608 C8
3571 B9	7609 B9
3572 A9	7610 A9
3573 I1	7611 I1
4503 G7	7612 G7
4508 J3	7613 J3
4509 H11	7614 H11
4504 I9	7615 I9
4505 I12	7616 I12
4506 B5	7617 B5
4501 C5	7618 C5
4502 C5	7619 C5

* Components having special characteristics are marked and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

A 7

1xxx : Connector	3xxx : Resistor	5xxx : Coil	7xxx : IC, Transistor, FET
2xxx : Capacitor	4xxx : SMD jumper	6xxx : Diode	9xxx : Wire jumper

- * Components having special characteristics are marked  and must be replaced with parts having specifications equal to those originally installed.
- * Schematic diagram is subject to change without notice.



1600 AE
1601 AE
2600 B1
2600 C1
2604 C1
2606 E1
2607 EL
2608 AE
2610 C9
2611 C9
2612 F1
2613 H3
2615 A9
2616 A9
2617 AB
2617 B1
2620 AE
2622 C1
2623 C1
2625 B1
2626 B1
2627 B1
2628 AE
2629 C1
2630 B2
2632 B2
2633 C2
2634 C2
2635 B1
2636 B1
2637 B3
2638 B3
2639 C3
2640 B4
2641 B4
2642 B4
2643 B4
2644 B4
2645 B4
2646 B4
2647 B4
2648 C4
2649 B1
2650 B1
2651 B1
2652 D1
2653 D1
2654 B9
3121 F1
3122 F1
3126 G2
3138 G1
3152 GA
3153 GA
3154 H1
3600 B9
3601 C1
3602 D1
3603 D9
3604 D9
3610 E1
3611 F1
3612 F1
3613 E1
3617 F1
3618 F1
3619 E9
3623 H7
3624 F6
3625 F6
3626 F6
3627 F5
3628 H6
3631 I5
3632 F6
3633 H6
3640 E7
3641 E6
3642 E5
3643 E5
3644 D6
3645 D5
3646 E2
3647 E2
3648 D3
3649 D2
3651 E3
3652 D5
3655 A1
3656 A1
3657 A1
3658 A1
3659 B1
3660 A3
3661 A3
3662 A3
3663 A3
3664 B3
3665 D5
3666 D5
3667 AE
3669 H6

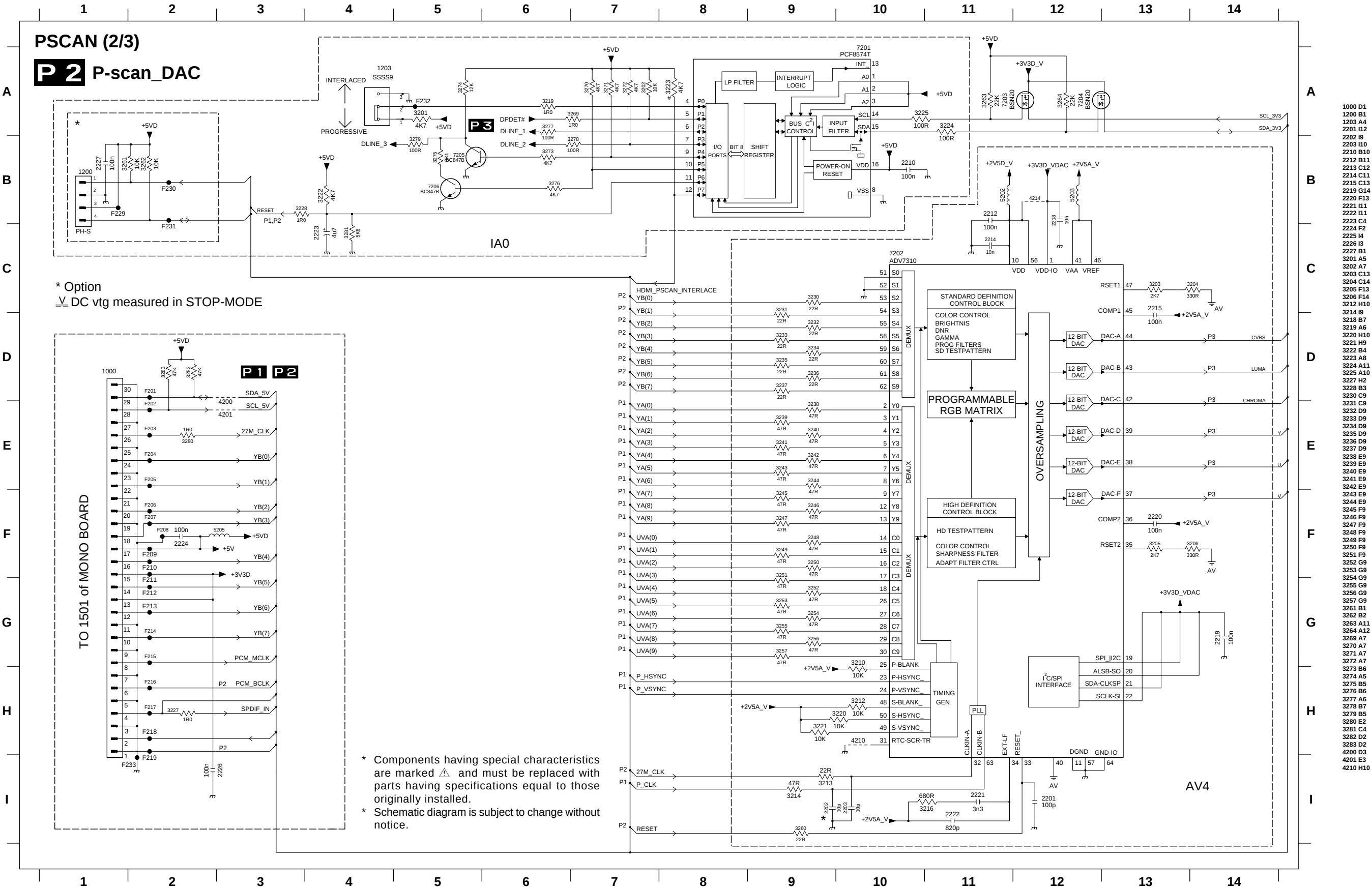
1xxx : Connector	3xxx : Resistor	5xxx : Coil	7xxx : IC, Transistor, FET
2xxx : Capacitor	4xxx : SMD jumper	6xxx : Diode	9xxx : Wire jumper



■ SCHEMATIC DIAGRAM
FOR INFORMATION ONLY (NO SERVICE PARTS WILL BE AVAILABLE)

The first digit of a component indicates the component type.

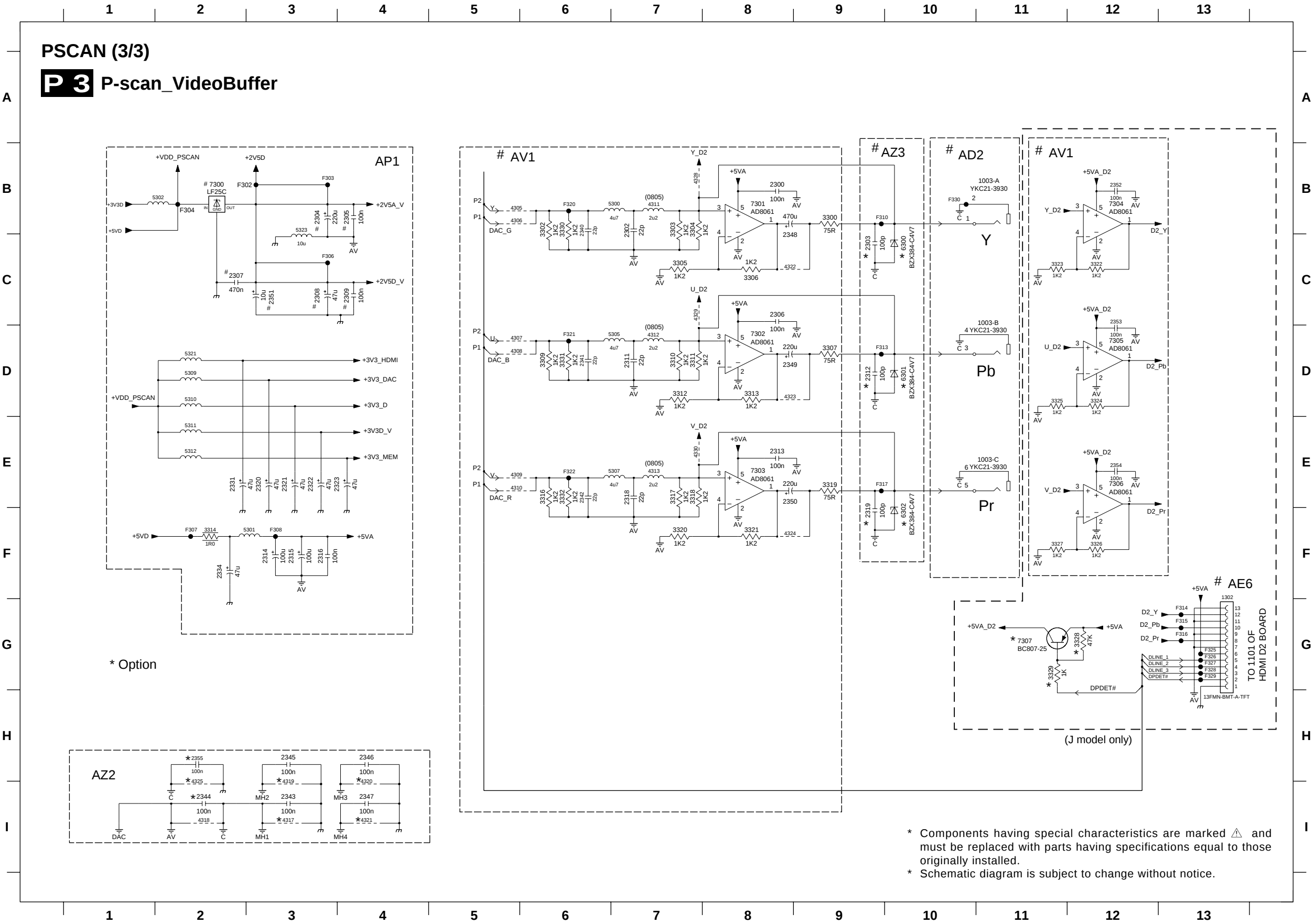
1xxx : Connector 3xxx : Resistor 5xxx : Coil 7xxx : IC, Transistor, FET
2xxx : Capacitor 4xxx : SMD jumper 6xxx : Diode 9xxx : Wire jumper



1000 D1	4214 B12
1200 B1	5201 G14
1203 A4	5202 B11
2201 I12	5203 B12
2202 I9	5205 F3
2203 I10	7201 A10
2210 B10	7202 C10
2212 B11	7203 A11
2213 C12	7204 A12
2214 C11	7205 B5
2215 C13	7206 B5
2219 G14	F201 D2
2220 F13	F202 E2
2221 I11	F203 E2
2222 I11	F204 E2
2223 C4	F205 E2
2224 F2	F206 F2
2225 I4	F207 F2
2226 I3	F208 F2
2227 B1	F209 F2
3201 A5	F210 F2
3202 A7	F211 G2
3203 C13	F212 G2
3204 C14	F213 G2
3205 F13	F214 G2
3206 F14	F215 G2
3212 H10	F216 H2
3214 I9	F217 H2
3218 B7	F218 H2
3219 A6	F219 I2
3220 H10	F229 B1
3221 H9	F230 B2
3222 B4	F231 C2
3223 A8	F232 A5
3224 A11	F233 I2
3225 A10	
3227 H2	
3228 B3	
3230 C9	
3231 C9	
3232 D9	
3233 D9	
3234 D9	
3235 D9	
3236 D9	
3237 D9	
3238 E9	
3239 E9	
3240 E9	
3241 E9	
3242 E9	
3243 E9	
3244 E9	
3245 F9	
3246 F9	
3247 F9	
3248 F9	
3249 F9	
3250 F9	
3251 F9	
3252 G9	
3253 G9	
3254 G9	
3255 G9	
3256 G9	
3257 G9	
3261 B1	
3262 B2	
3263 A11	
3264 A12	
3269 A7	
3270 A7	
3271 A7	
3272 A7	
3273 B6	
3274 A5	
3275 B5	
3276 B6	
3277 A6	
3278 B7	
3279 B5	
3280 E2	
3281 C4	
3282 D2	
3283 D2	
4200 D3	
4201 E3	
4210 H10	

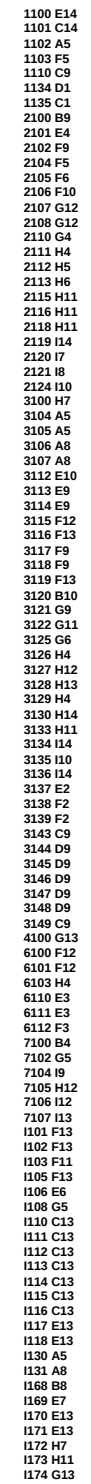
■ SCHEMATIC DIAGRAM
FOR INFORMATION ONLY (NO SERVICE PARTS WILL BE AVAILABLE)

The first digit of a component indicates the component type.
1xxx : Connector 3xxx : Resistor 5xxx : Coil 7xxx : IC, Transistor, FET
2xxx : Capacitor 4xxx : SMD jumper 6xxx : Diode 9xxx : Wire jumper



* Components having special characteristics are marked and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

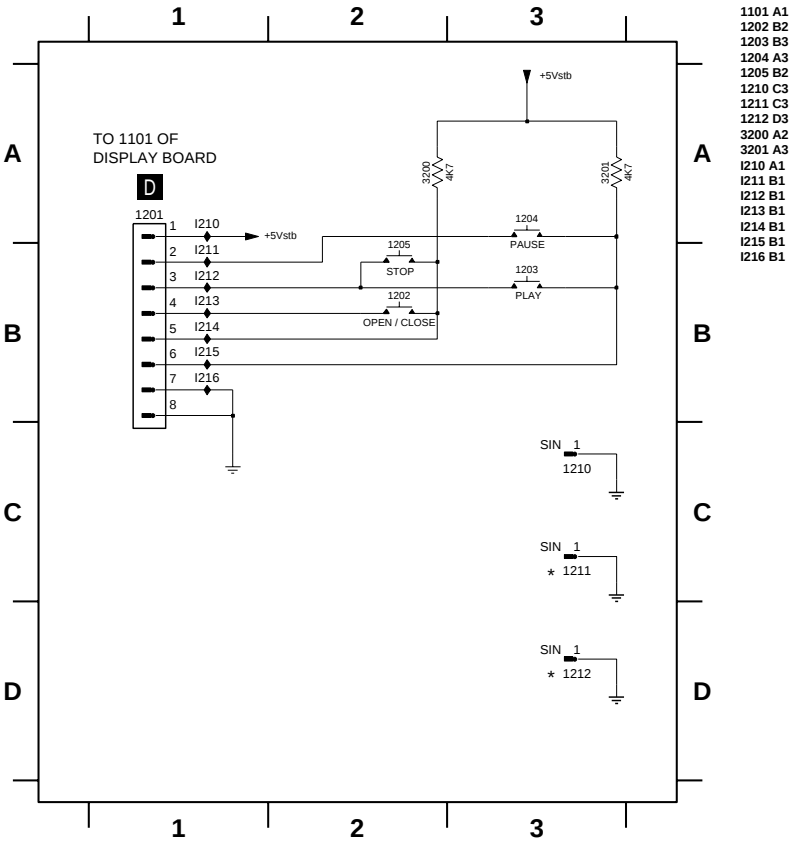
1xxx : Connector	3xxx : Resistor	5xxx : Coil	7xxx : IC, Transistor, FET
2xxx : Capacitor	4xxx : SMD jumper	6xxx : Diode	9xxx : Wire jumper



■ SCHEMATIC DIAGRAM
FOR INFORMATION ONLY (NO SERVICE PARTS WILL BE AVAILABLE)

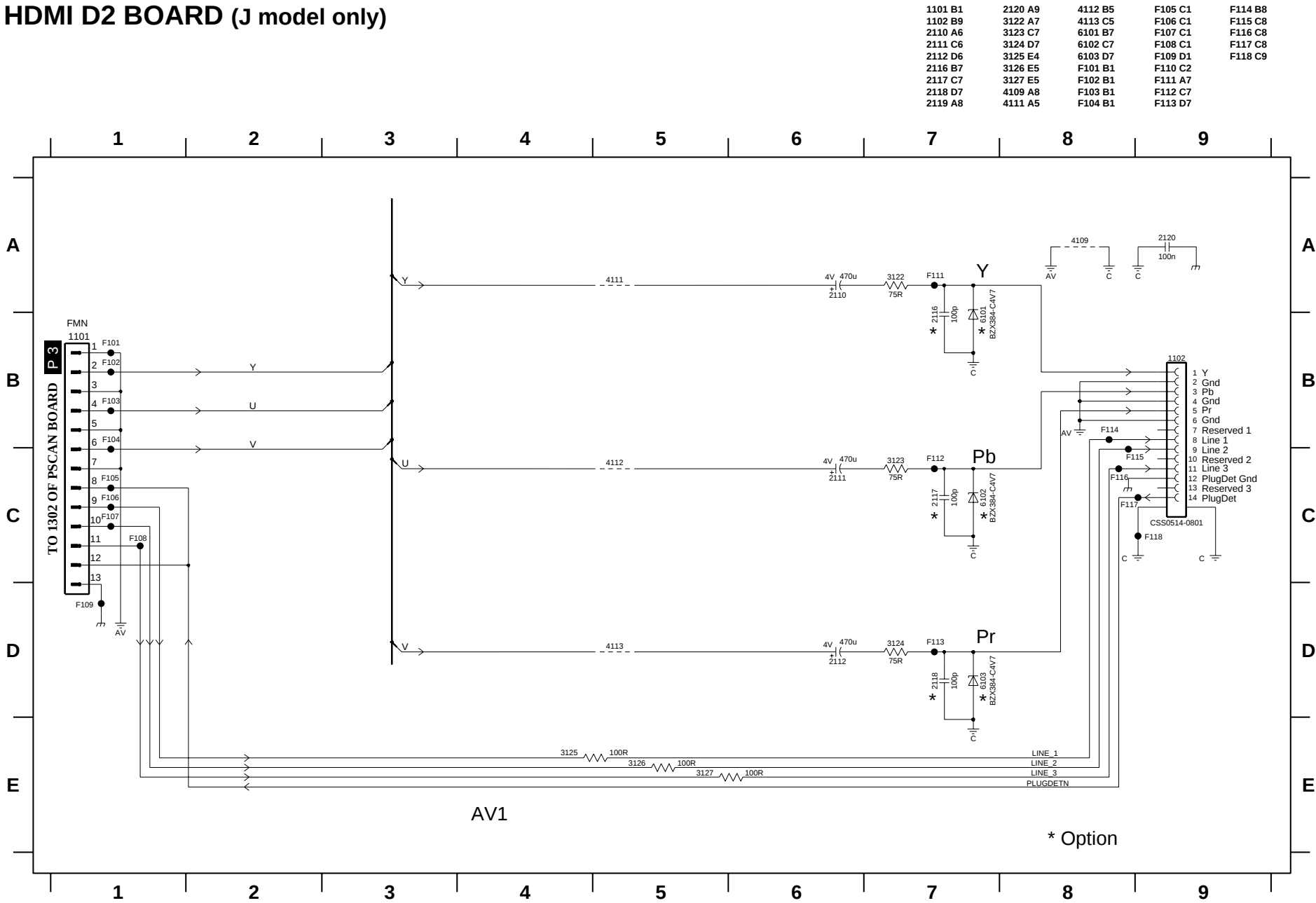
FRONT (2)

K KEY MATRIX BOARD



* OPTION
V DC vtg measured in STOP-MODE

HDMI D2 BOARD (J model only)



The first digit of a component indicates the component type.
1xxx : Connector 3xxx : Resistor 5xxx : Coil 7xxx : IC, Transistor, FET
2xxx : Capacitor 4xxx : SMD jumper 6xxx : Diode 9xxx : Wire jumper

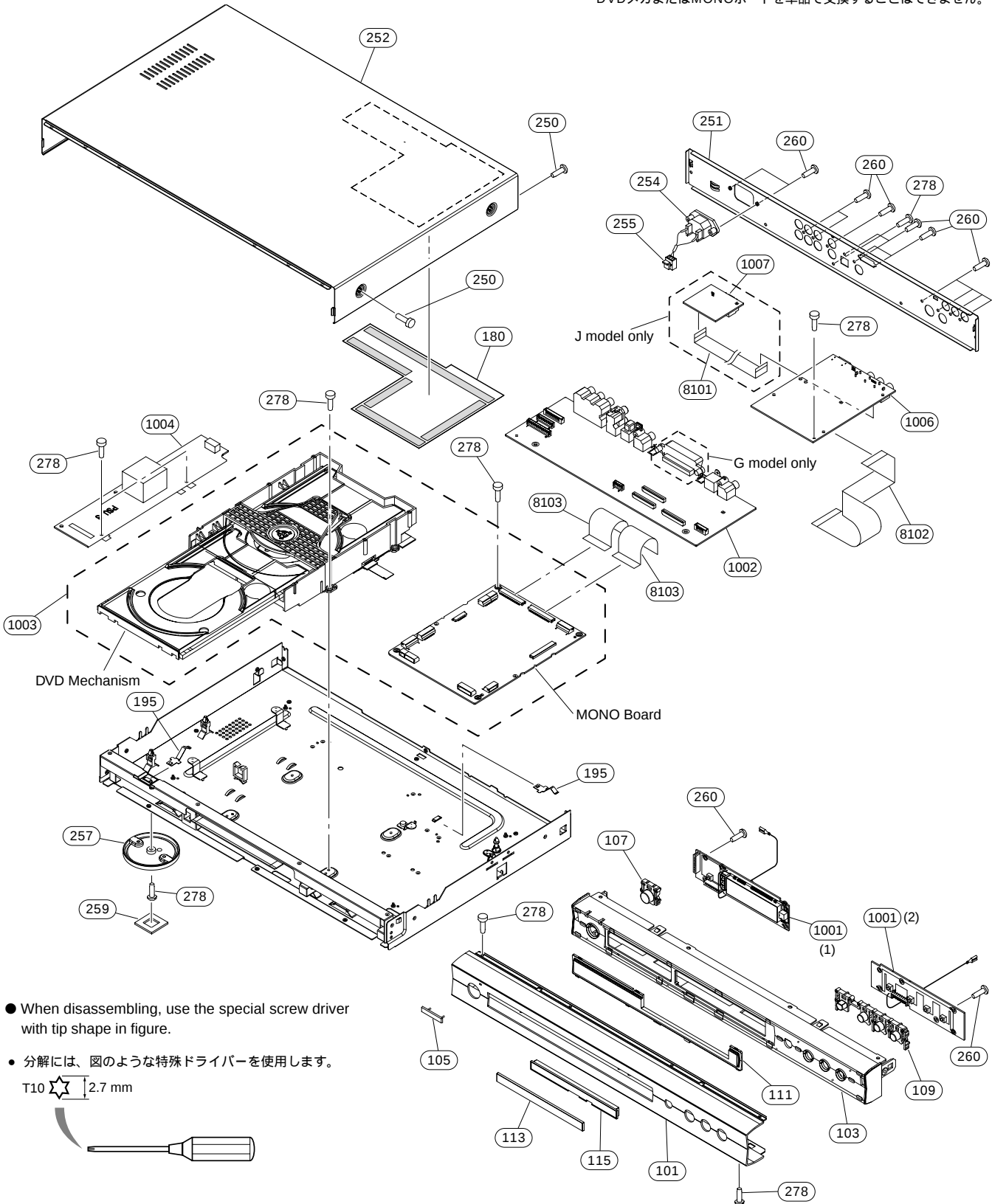
1101 B1	2120 A9	4112 B5	F105 C1	F114 B8
1102 B9	3122 A7	4113 C5	F106 C1	F115 C8
2110 A6	3123 C7	6101 B7	F107 C1	F116 C8
2111 C6	3124 D7	6102 C7	F108 C1	F117 C8
2112 D6	3125 E4	6103 D7	F109 D1	F118 C9
2116 B7	3126 E5	F101 B1	F110 C2	
2117 C7	3127 E5	F102 B1	F111 A7	
2118 D7	4109 A8	F103 B1	F112 C7	
2119 A8	4111 A5	F104 B1	F113 D7	

* Components having special characteristics are marked $\triangle$ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

EXPLODED VIEW

DVD MODULE (1003)

- The DVD MECHANISM and MONO BOARD together as a set are called the DVD MODULE.
- If a failure has occurred with any part of the DVD MODULE, be sure to replace the DVD MODULE as a whole.
- Neither the DVD MECHANISM nor MONO BOARD can be replaced independently.



DVDモジュール (1003)

- DVDメカとMONOボードをセットしたものをDVDモジュールと呼びます。
- DVDモジュールに故障が発生した場合は、必ずDVDモジュールを交換してください。
- DVDメカまたはMONOボードを単品で交換することはできません。

MECHANICAL PARTS

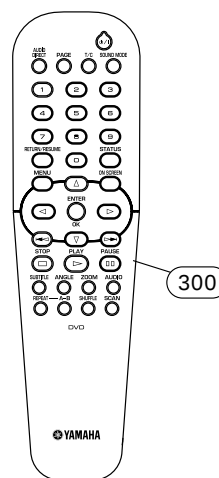
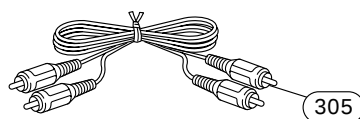
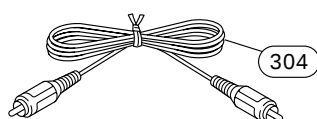
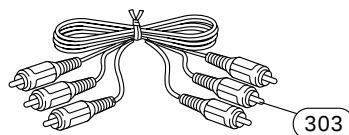
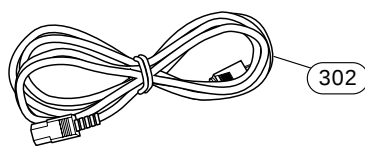
WARNING

- Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.
- ⚠印のある部分は、安全確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。

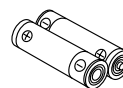
Ref. No.	PART NO.	Description	Remarks	Markets	部品名	Rank
* 101	AAX57860	FRONT PANEL	S1500GD	3139 241 21651		フロントパネル
* 101	AAX57870	FRONT PANEL	S1500BL	3139 241 21661		フロントパネル
* 101	AAX57850	FRONT PANEL	S1500TI	3139 241 21641		フロントパネル
* 101	AAX57880	FRONT PANEL	S5770SI	3139 241 60071		フロントパネル
* 103	AAX57790	SUB PANEL	S1500GD	3139 244 04181		サブパネル
* 103	AAX57800	SUB PANEL	S1500BL	3139 244 04191		サブパネル
* 103	AAX57780	SUB PANEL	S1500TI	3139 244 04171		サブパネル
103	AAX54600	SUB PANEL	S5770SI	3139 244 04011		サブパネル
* 105	AAX22910	BADGE YAMAHA	GD	3139 240 00071		エンブレム
105	AAX22900	BADGE YAMAHA	BL, TI, SI	3139 240 00061		エンブレム
* 107	AAX57920	BUTTON POWER	S1500GD	3139 244 04141		ボタン / パワー
* 107	AAX57940	BUTTON POWER	S1500BL	3139 244 04161		ボタン / パワー
* 107	AAX57930	BUTTON POWER	S1500TI	3139 244 04151		ボタン / パワー
107	AAX53560	BUTTON/POWER	S5770SI	3139 244 03981		ボタン / パワー
* 109	AAX57890	BUTTON/CONTROL	S1500GD	3139 244 04111		ボタン / コントロール
* 109	AAX57910	BUTTON/CONTROL	S1500BL	3139 244 04131		ボタン / コントロール
* 109	AAX57900	BUTTON/CONTROL	S1500TI	3139 244 04121		ボタン / コントロール
109	AAX53550	BUTTON/CONTROL	S5770SI	3139 244 03971		ボタン / コントロール
* 111	AAX57740	WINDOW DISPLAY		3139 244 04101		ウィンドウ / ディスプレイ
* 113	AAX57840	TRAY LID		3139 244 04221		トレーリッド
115	AAX53510	TRAY CATCH		3139 244 03931		トレーキャッチ
* 180	AAX57720	PC CUTSHEET		3139 243 20081		P C カットシート
195	AAX53480	SPRING GROUNDING		3139 111 01471		スプリング / グランド
* 250	AAX57730	PW HEAD TORX S-TIGHT SCREW	GD, TI, SI 3x6MFNI33	3103 301 45951		P W ヘッド S タイトネジ
* 250	AAX55450	PW HEAD TORX S-TIGHT SCREW	BL 3x6MFZN2BL	3139 110 40611		P W ヘッド S タイトネジ
* 251	AAX57960	REAR PANEL	S1500	3139 241 21561	J	リアパネル
* 251	AAX57990	REAR PANEL	S1500	3139 241 21681	U	リアパネル
* 251	AAX57970	REAR PANEL	S1500	3139 241 21571	R	リアパネル
* 251	AAX57980	REAR PANEL	S1500	3139 241 21671	A	リアパネル
* 251	AAX57950	REAR PANEL	S1500	3139 241 21551	G	リアパネル
* 251	AAX58000	REAR PANEL	S5770	3139 241 22061	U	リアパネル
* 252	AAX57820	TOP COVER	GD	3139 241 21621		トップカバー
* 252	AAX57830	TOP COVER	BL	3139 241 21631		トップカバー
* 252	AAX57810	TOP COVER	TI, SI	3139 241 21611		トップカバー
* 254	AAX57640	AC INLET	2P	2422 030 00408		A C インレット 2 P
* 255	AAX57770	CABLE VH 2P3/100/2P		3139 241 00261		ケーブル
* 257	AAX58020	FOOT 7-5 G	GD	3139 244 04091		脚
257	AAX53620	FOOT	BL, TI, SI	3139 244 03951		脚
259	AAX53470	CUSHION		3139 243 10011		クッション
260	AAX53520	PAN HEAD TORX P-TIGHT SCREW	3x8 MFZN2BL	2511 076 50012		ナベトルクス P タイトネジ
278	AAX23640	PAN HEAD TORX S-TIGHT SCREW	3x6 MFZN2BL	2511 077 00039		ナベトルクス S タイトネジ
* 1001	AAX57710	P.C.B. ASS'Y	FRONT	3139 248 82872		P C B フロント
* 1002	AAX57660	P.C.B. ASS'Y	A/V	3139 248 82782	JURA	P C B A V
* 1002	AAX57670	P.C.B. ASS'Y	A/V	3139 248 82792	G	P C B A V
* 1003	AAX57650	DVD MODULE	SD52XSA 4FL DV	3139 248 71911		D V D モジュール
* 1004	AAX58070	POWER SUPPLY UNIT	B1L PERF2003 WR HE	3139 248 71951		電源ユニット
* 1006	AAX57690	P.C.B. ASS'Y	PSCAN 80S D2	3139 248 82741	J	P C B P S C A N
* 1006	AAX57700	P.C.B. ASS'Y	PSCAN 80S	3139 248 82971	URAG	P C B P S C A N
* 1007	AAX57680	P.C.B. ASS'Y	HDMI D2 CONNECTOR	3139 248 82751	J	P C B H D M I D 2
* 8101	AAX57750	FLEXIBLE FLAT CABLE	13P 220mm P=1mm	3139 241 00361	J	カード電線 C & C
* 8102	AAX57760	FLEXIBLE FLAT CABLE	30P 140mm P=1mm	3139 241 00451		カード電線 C & C
* 8103	AAX47150	FLEXIBLE FLAT CABLE	30P 80mm P=1mm	3139 241 00251		カード電線 C & C

* New Parts (新規部品)

■ ACCESSORIES



Note) The battery cover is not available.



Ref. No.	PART NO.	Description	Remarks	Markets	部品名	Rank
		ACCESSORIES			付属品	
* 300	AAX58010	REMOTE CONTROL	RC19237009/00		リモコン	
△ * 302	AAX58050	POWER CABLE	2m		電源コード	
△ * 302	AAX58060	POWER CABLE	2m	J	電源コード	
△ * 302	AAX58040	POWER CABLE	2m	U	電源コード	
△ * 302	AAX58030	POWER CABLE	2m	RG	電源コード	
△ * 302	AAX58030	POWER CABLE	2m	A	電源コード	
303	AAX23450	AUDIO/VIDEO CABLE	YE/RD/WH 1.5m 1pc		音声 / 映像ピンケーブル	
304	AAX22970	VIDEO CABLE	YE 1.5m 1pc	JURA	ビデオ用ピンケーブル	
305	AAX21980	AUDIO PIN CABLE	RD/WH 1.5m 1pc	G	ステレオピンケーブル	
		BATTERY	UM-3 (2pcs)	G	乾電池 2 P C S	

* New Parts (新規部品)

DVD-S1500/DV-S5770

YAMAHA

DVD-S1500
/DV-S5770