

DVD-AUDIO/VIDEO SA-CD PLAYER

DVD-C950

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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YAMAHA

YAMAHA CORPORATION
P.O.Box 1, Hamamatsu, Japan

'05.03

■ TO SERVICE PERSONNEL

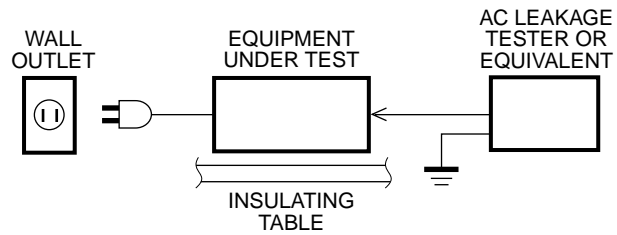
1. Critical Components Information

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 ohms 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.



THE DVD AUDIO/VIDEO PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.

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.
- 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: 650 nm (DVD)
 780 nm (VCD/CD)
 Output Power: 7 mW (DVD/VCD/CD)
 Beam divergence: 60 degree

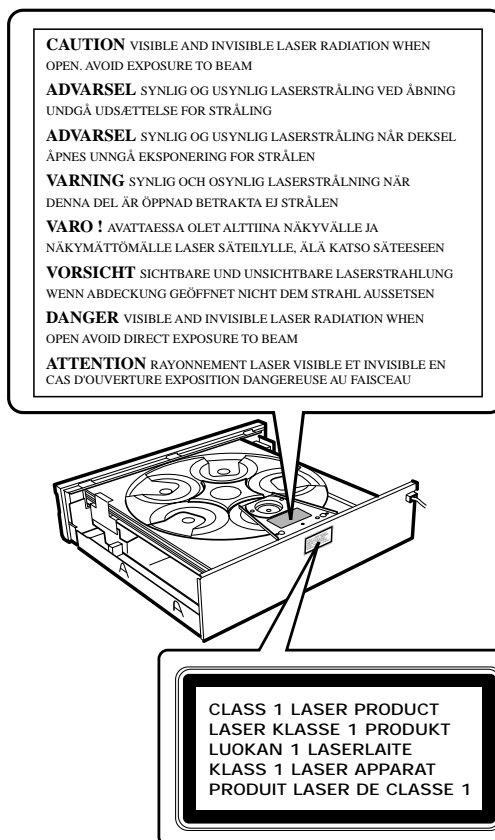
VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASER-SÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

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.



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!

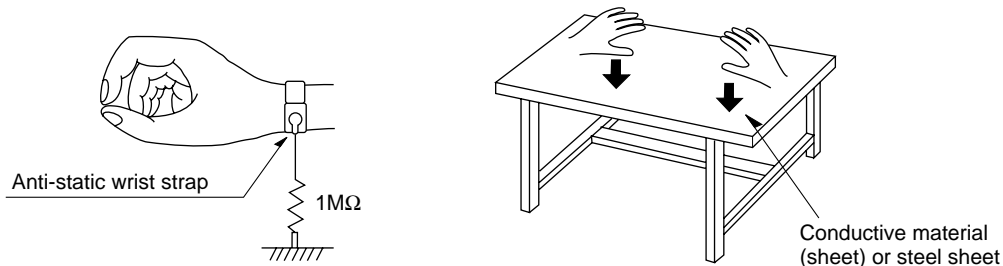
The DVD mechanism is very sensitive for dropping or giving shocks.

■ PREVENTION OF ELECTROSTATIC 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

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.

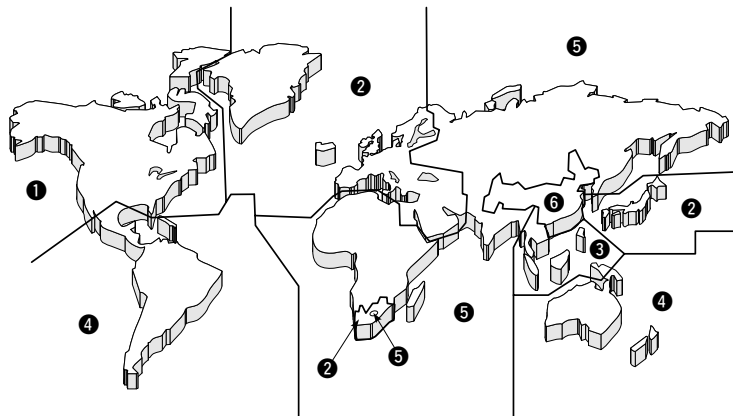
3. Handling Precautions for the Traverse Unit (Optical Pickup)

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

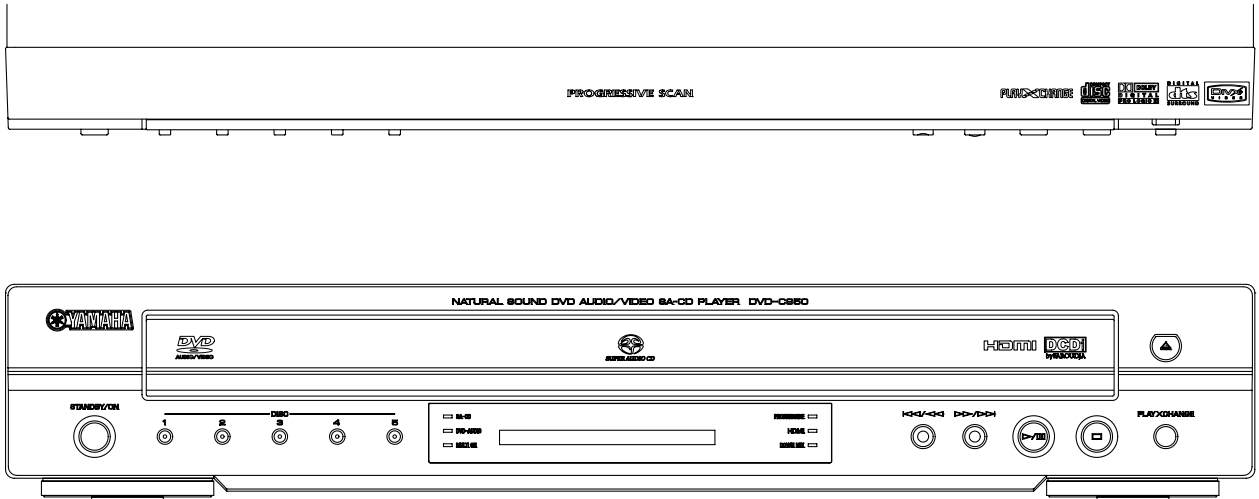
Locale Management Information : This DVD player is designed and manufactured to respond to the Locale Management Information that is recorded on a DVD disc. If the Locale number described on the DVD disc does not correspond to the Locale number of this DVD player, this DVD player cannot play this disc.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.



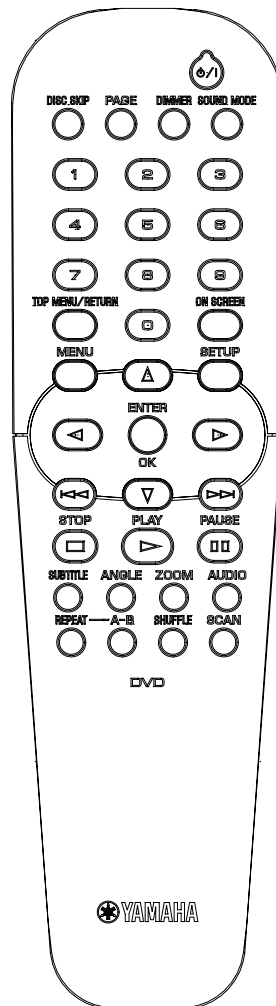
■ FRONT PANEL

▼ DVD-C950 (U model)



■ REMOTE CONTROL PANEL

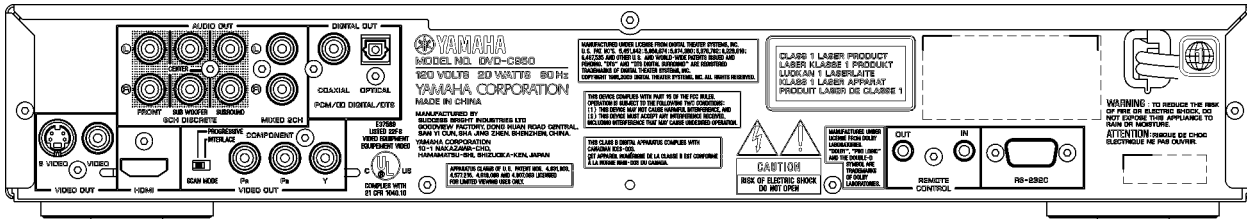
● DVD-C950



DVD-C950

REAR PANEL

DVD-C950 U model



SPECIFICATIONS

PLAYBACK SYSTEM

- DVD-Video
- DVD-Audio
- SA-CD multichannel and SA-CD stereo
- Video CD and SVCD
- CD
- PICTURE CD
- CD-R, CD-RW
- DVD+R, DVD+RW
- DVD-R, DVD-RW

VIDEO PERFORMANCE

- Video (CVBS) Output: 1 Vpp into 75 ohms
- S-Video Output: Y: 1 Vpp into 75 ohms
C: 0.3 Vpp into 75 ohms
- Component Video Output: Y: 1 Vpp into 75 ohms
Pb/Cb Pr/Cr: 0.7 Vpp into 75 ohms
- Black Level Shift: On/Off

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

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

AUDIO FORMAT

- Digital Mpeg/Dolby Digital/ DTS: Compressed Digital
- PCM: 16, 20, 24 bits
fs, 44.1, 48, 96 kHz
- MP3 (ISO 9660): 24, 32, 56, 64, 96, 128, 256 kbps
fs 16, 22.05, 24, 32, 44.1, 48kHz
- WMA: 32–192 kbps, mono, stereo

- Full decoding of Dolby Digital and DTS multi-channel sound
- Analog Sound Stereo
- Dolby Surround compatible downmix from Dolby Digital multi-channel sound
- Dolby Pro Logic II
- 3D sound for virtual 5.1 channel sound on 2 speakers

AUDIO PERFORMANCE

- DA Converter: 24 bits, 192kHz
- Signal-Noise (1kHz): 105 dB
- Dynamic Range (1kHz): 95 dB
- DVD: fs 96 kHz: 2 Hz - 44 kHz
fs 48 kHz: 2 Hz - 22 kHz
- SVCD: fs 48 kHz: 2 Hz - 22 kHz
fs 44.1 kHz: 2 Hz - 20 kHz
- CD/VCD: fs 44.1 kHz: 2 Hz - 20 kHz
- Distortion and Noise (1kHz): 0.0035%

CONNECTIONS

- Y Output: Cinch (green)
- Pb/Cb Output: Cinch (blue)
- Pr/Cr Output: Cinch (red)
- S-Video Output: Mini DIN, 4 pins
- Video Output: Cinch
- Audio Output (L+R): Cinch
- Digital Output: 1 coaxial, 1 optical
IEC60958 for CDDA / LPCM
IEC61937 for MPEG1/2, Dolby Digital and DTS

6 Channel Analog Output

- Audio Front L/R: Cinch (white/red)
- Audio Surround L/R: Cinch (white/red)
- Audio Center: Cinch (blue)
- Audio Subwoofer: Cinch (black)
- HDMI Output: TYPE A x 1

GENERAL

- Dimensions (w x h x d): 435 x 75 x 425 mm
(17-1/8" x 3" x 16-3/4")
- Weight: Approx. 5.5 Kg (12 lbs 2 oz)
- Finish: Black Color

POWER SUPPLY

- Power inlet: U model: 120V, 60Hz
- Power usage: Approx. 20W
- Power usage standby: < 1W

DVD-C950

ACCESSORIES

- Remote Control x1
- Batteries x2
- Audio/Video Cable x1

- * Typical playing time for movie with 2 spoken languages and 3 subtitle languages
- * Specifications subject to change without prior notice.

U USA model



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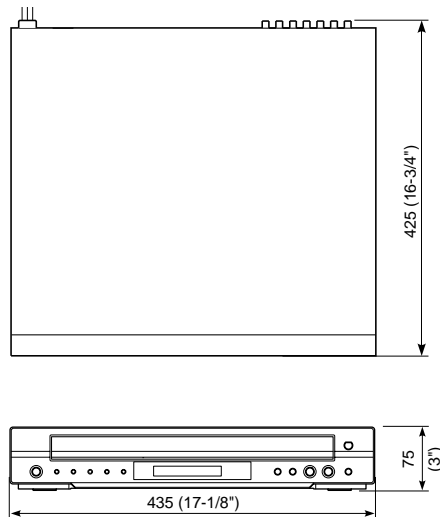


"DCDi" is a trademark of Faroudja, a division of Genesis Microchip, Inc.



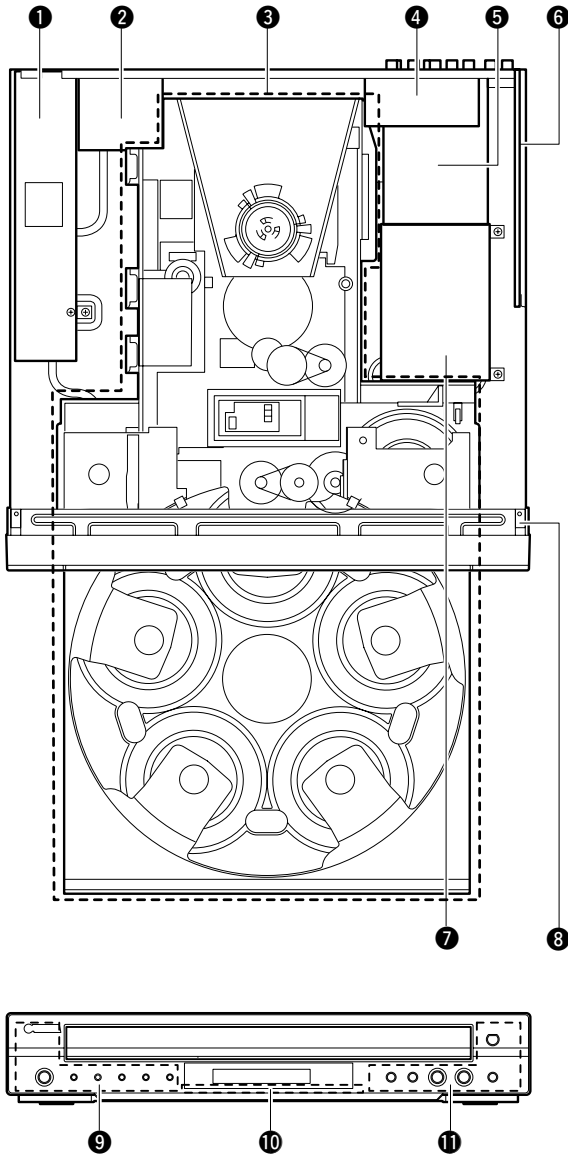
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■ DIMENSIONS



Unit : mm (inch)

INTERNAL VIEW



- ① POWER SUPPLY UNIT
- ② RS232C P.C.B.
- ③ DVD 5-DISC CHANGER MODULE
- ④ AV (2) P.C.B.
- ⑤ PSCAN P.C.B.
- ⑥ AV (1) P.C.B.
- ⑦ MONO P.C.B.

- ⑧ BRACKET FRONT
- ⑨ FRONT (2) STANDBY/ON P.C.B.
- ⑩ FRONT (1) DISPLAY P.C.B.
- ⑪ FRONT (3) OPEN/CLOSE P.C.B.

REPAIR NOTES

1. DVD 5-Disc Changer Module

The DVD 5-Disc Changer Module consists of the CM Unit and Tray Ass'y. The DVD 5-Disc Changer Module is supplied as a whole. Neither the CM Unit nor Tray Ass'y can be supplied independently.

2. Power Supply Unit

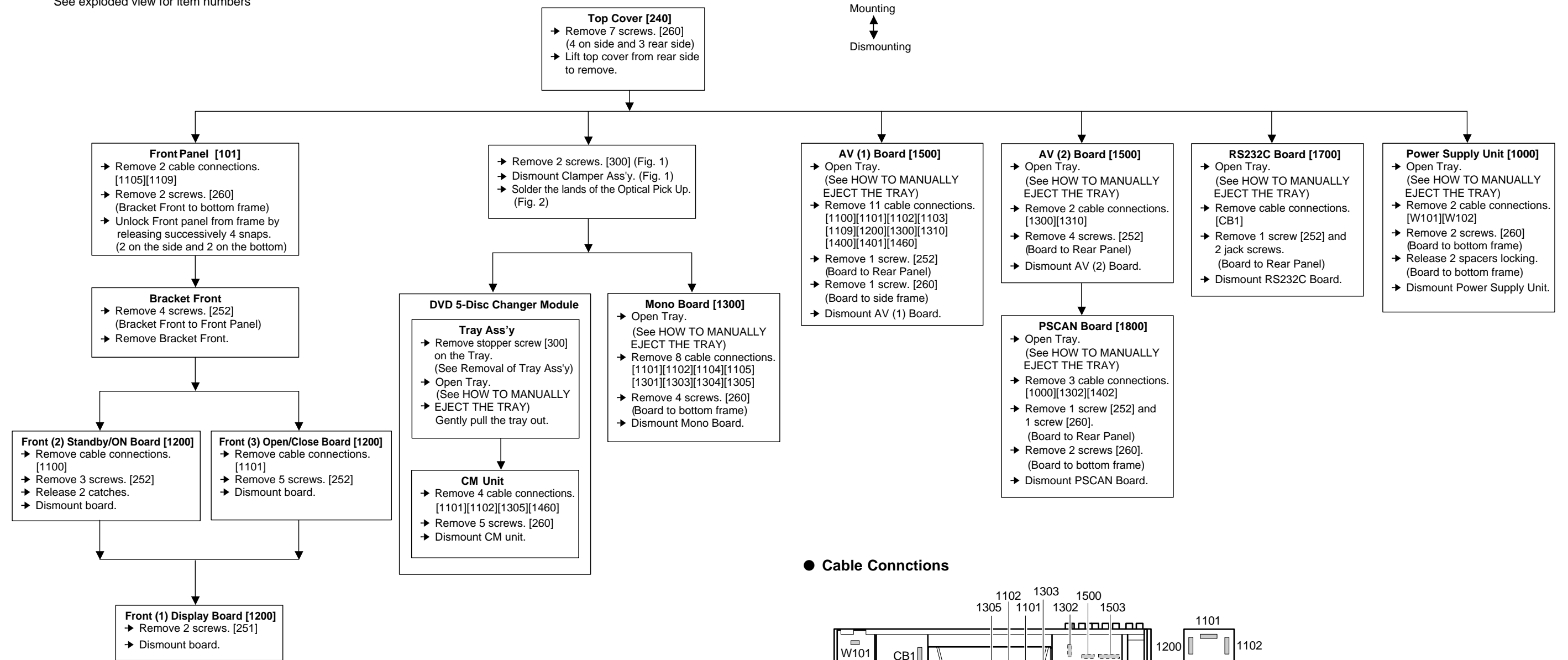
The power supply unit has to be replaced in case of failure.

3. PCB Assembly

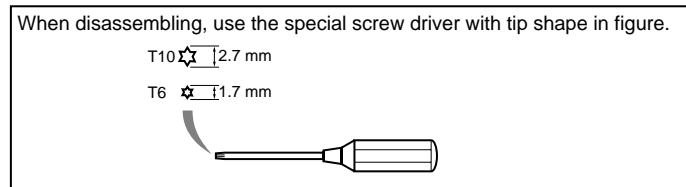
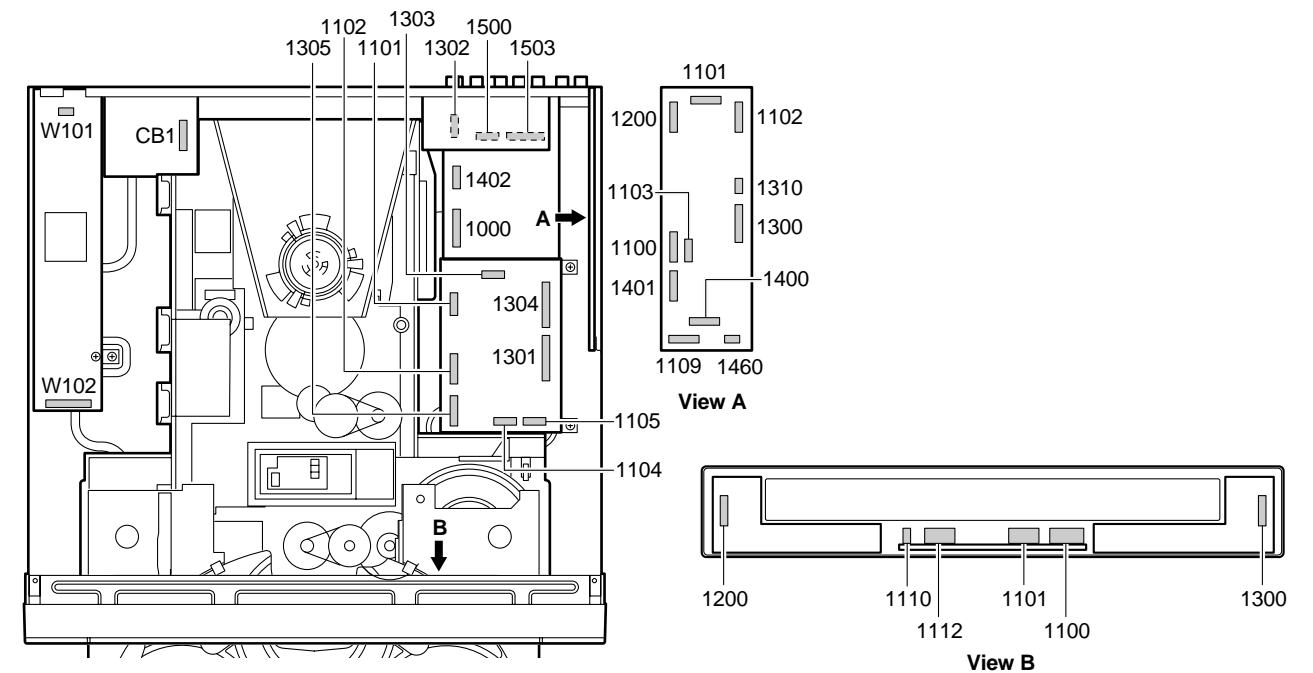
When a failure has occurred in the PCB assembly, replace each P.C.B.

DISASSEMBLY PROCEDURES

See exploded view for item numbers



● Cable Conncions



● **Preventive measure for laser diode from electrostatic breakdown**

When replacing the Mono Board or DVD 5-Disc Changer Module, solder between lands of the Optical Pick Up P.C.B. to protect the laser diode against electrostatic breakdown.

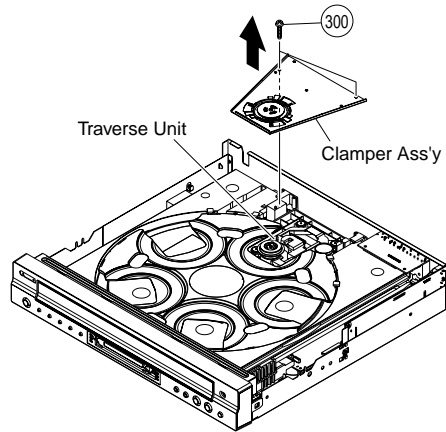


Fig. 1

Notes

- Use an anti-static soldering iron to short-circuit and unshort-circuit laser diode.
- After you have finished repairing, remove the solder from the short-circuit location.

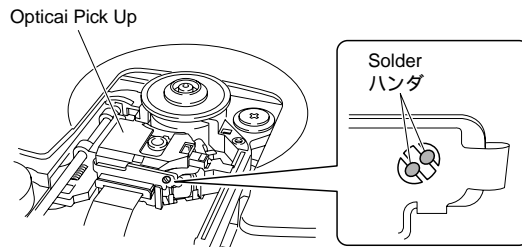


Fig. 2

● **HOW TO MANUALLY EJECT THE TRAY**

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

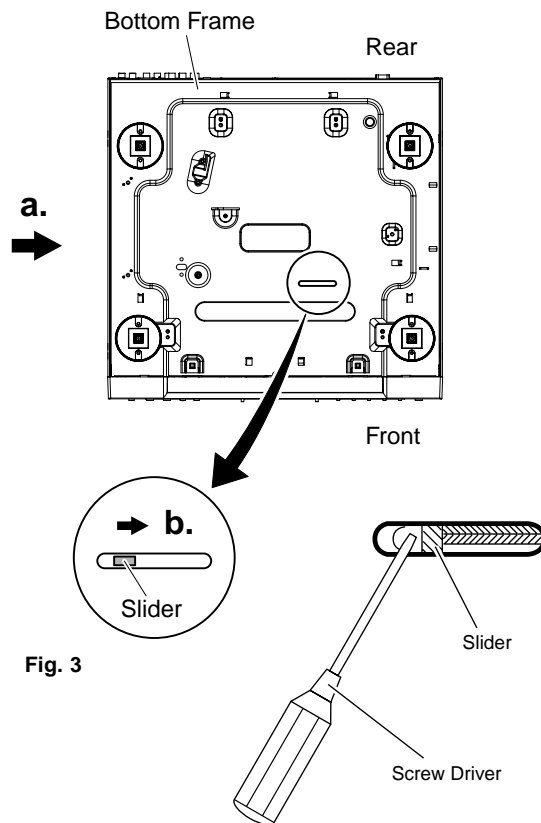
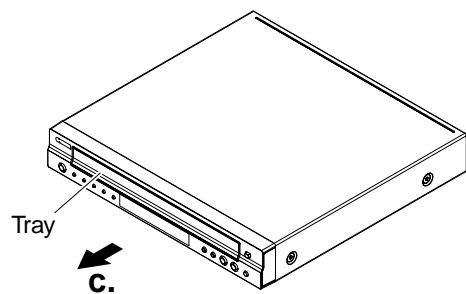


Fig. 3

1. Removal of Tray Ass'y

* *The Tray Ass'y cannot be supplied independently. The Tray Ass'y is contained in DVD 5-Disc Changer Module and supplied as a DVD 5-Disc Changer Module.*

- Remove the Top Cover.
- Open Tray (see HOW TO MANUALLY EJECT THE TRAY).
- Remove 1 screw (①).
- Remove the Tray Ass'y.

● **Precaution for installation of the Tray Ass'y.**

On Tray Ass'y setting. Check the Direction of marking "▲" on gear according to this drawing.

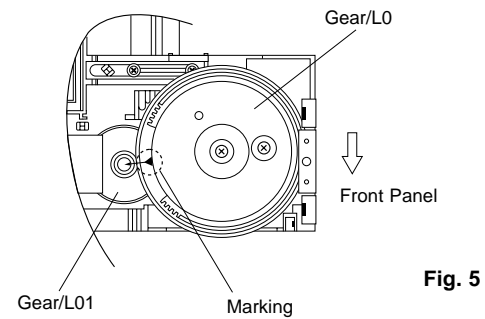


Fig. 5

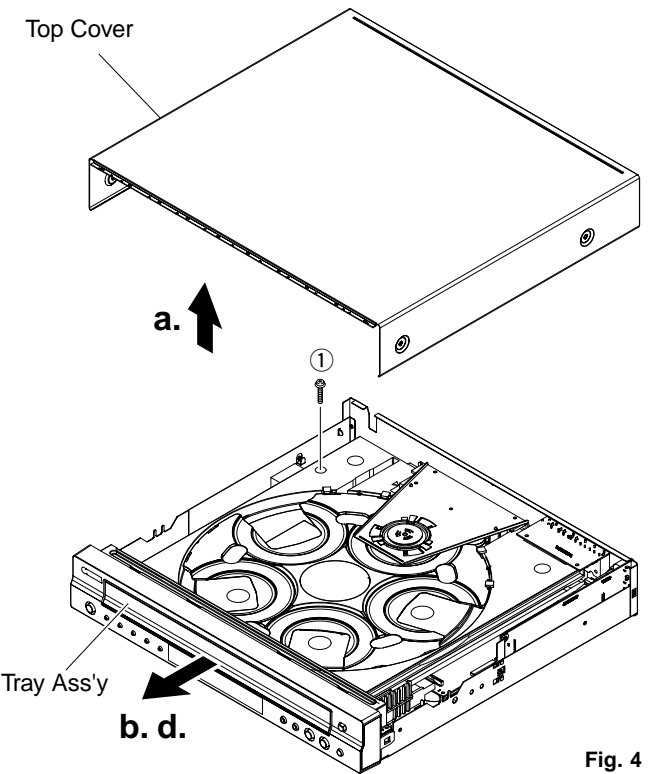


Fig. 4

2. Removal of Table

* *The Table cannot be supplied independently. The Table is contained in DVD 5-Disc Changer Module and supplied as a DVD 5-Disc Changer Module.*

- Remove the Plate/Table in Fig. 6.
- Remove 1 screw (②) and then take off the Table in Fig. 6.

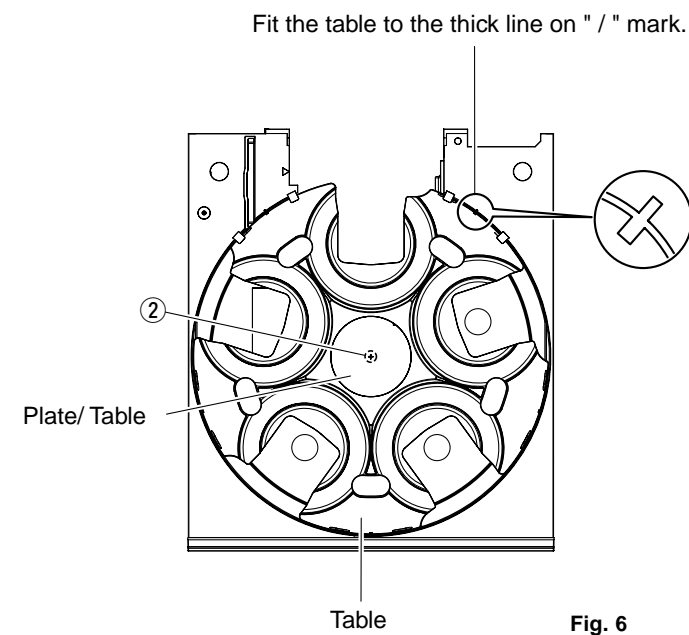


Fig. 6

IMPORTANT: Installation of Table.

Install the table according to the following procedure.

- 1) Slide the Lever so that the Gear/RT becomes free. (Fig.7)
- 2) With the "▲" mark on the Gear/RT aligned with the same mark on the Tray, lock it with the Lever. (Fig.7)
- 3) Install the Table by aligning it to the thick line on " / " mark. (Fig.6)

*Check that the Table is locked after installation.

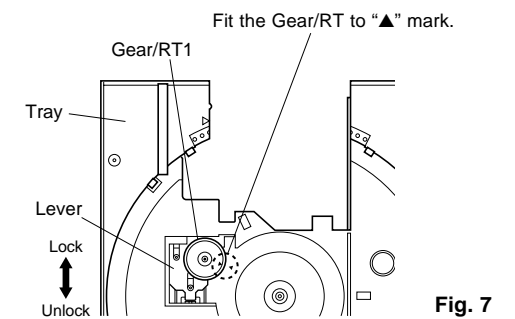
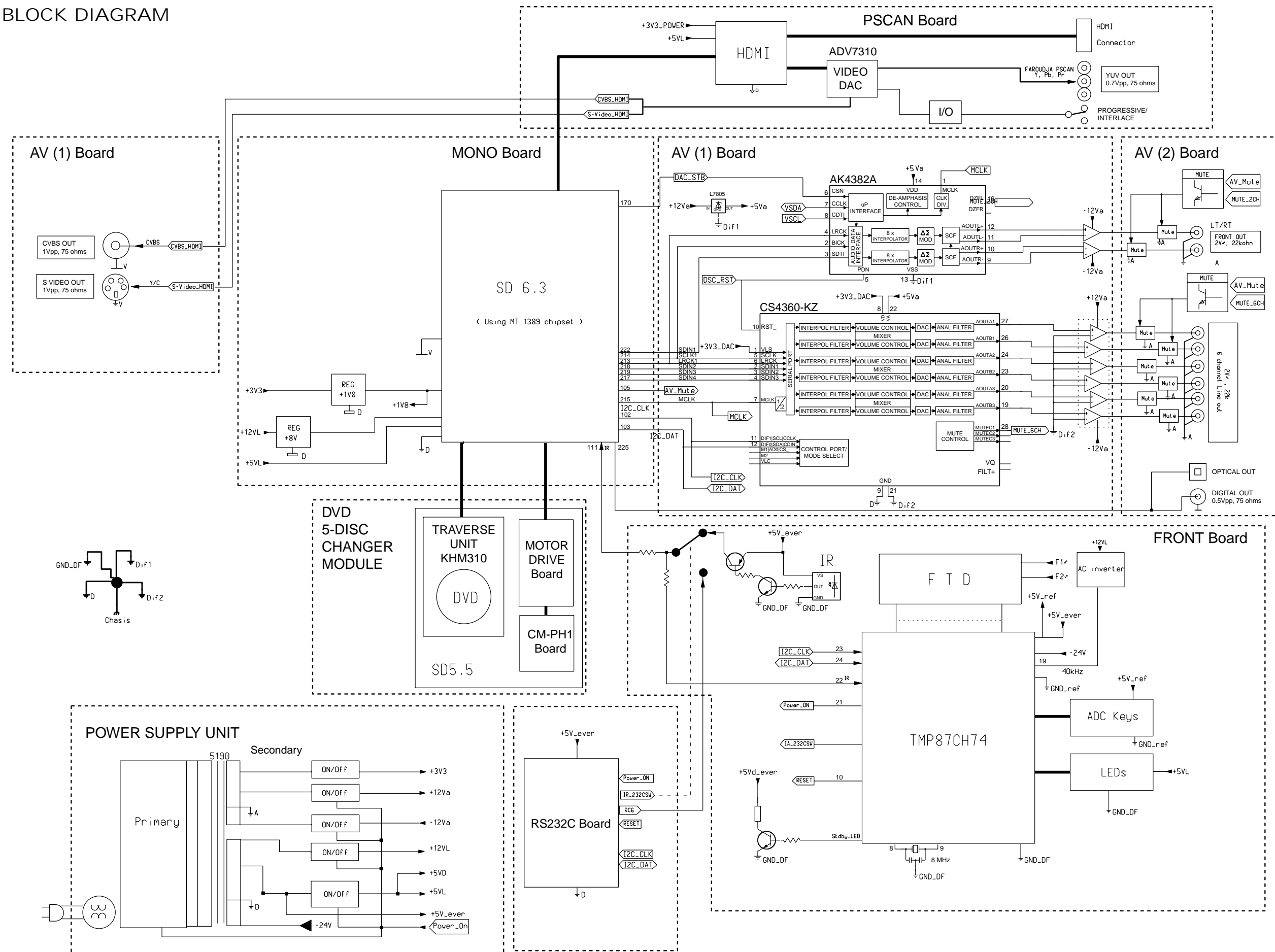


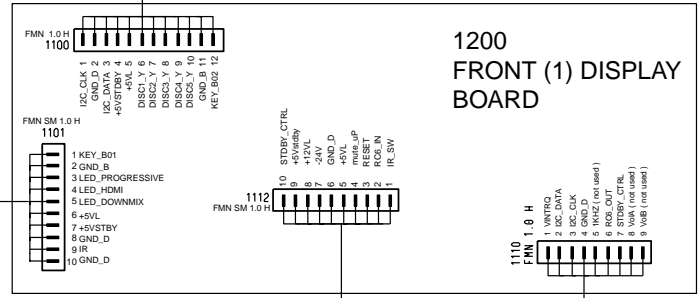
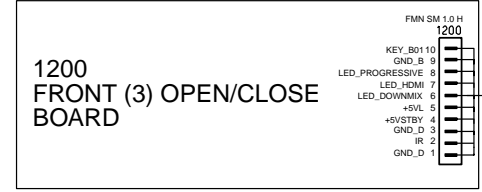
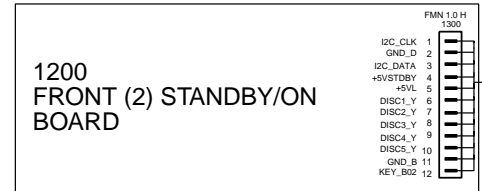
Fig. 7

BLOCK DIAGRAM

A
B
C
D
E
F

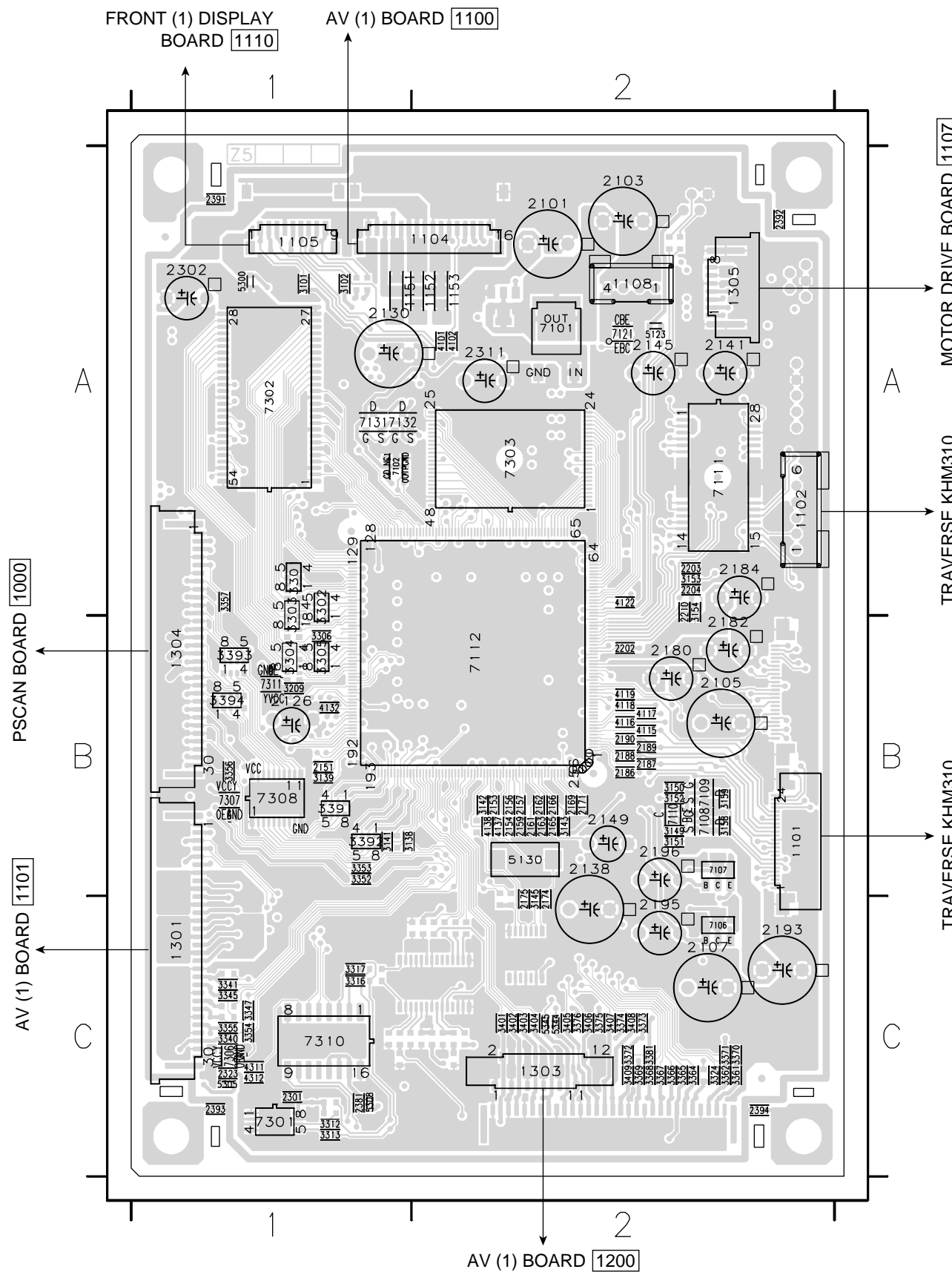


WIRING DIAGRAM



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

MONO Board Top View



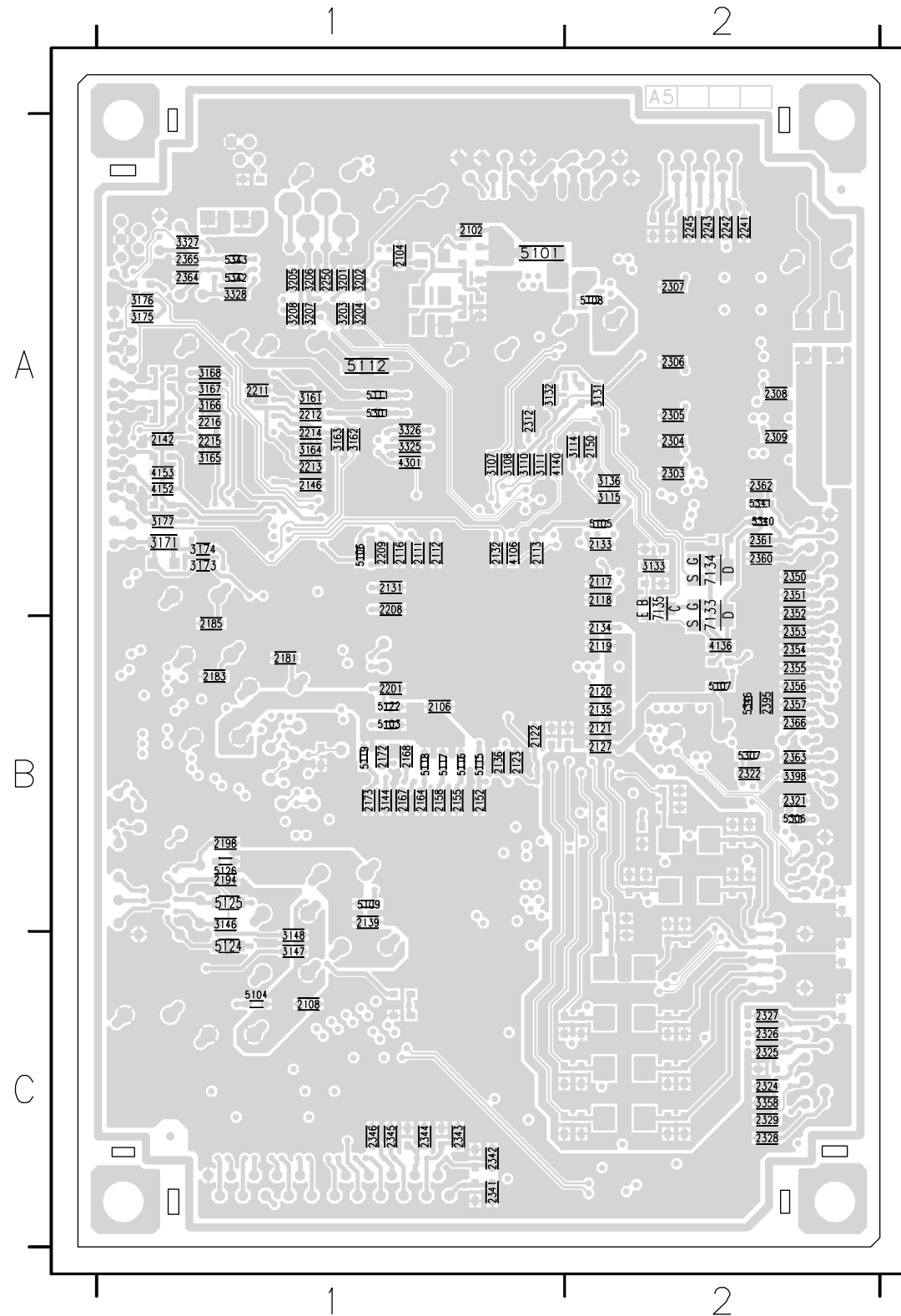
The first digit of a component indicates the component type.

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

1101	B2	2320	C2	3364	C2	7306	C1
1102	A2	2323	C1	3365	C2	7307	B1
1104	A2	2381	C1	3366	C2	7308	B1
1105	A1	2391	A1	3367	C2	7310	C1
1108	A2	2392	A2	3368	C2	7311	B1
1151	A1	2393	C1	3369	C2		
1152	A2	2394	C2	3370	C2		
1153	A2	3101	A1	3371	C2		
1301	C1	3102	A1	3372	C2		
1302	C2	3103	A1	3373	C2		
1303	C2	3104	A1	3374	C2		
1304	B1	3138	B1	3375	C2		
1305	A2	3139	B1	3376	C2		
2101	A2	3141	B1	3391	B1		
2103	A2	3142	B2	3393	B1		
2105	B2	3143	B2	3394	B1		
2107	C2	3145	C2	3401	C2		
2126	B1	3149	B2	3402	C2		
2130	A1	3150	B2	3403	C2		
2138	B2	3151	B2	3404	C2		
2141	A2	3152	B2	3405	C2		
2145	A2	3153	A2	3406	C2		
2149	B2	3154	A2	3407	C2		
2151	B1	3158	B2	3408	C2		
2153	B2	3159	B2	3409	C2		
2154	B2	3209	B1	4102	A2		
2156	B2	3301	A1	4115	B2		
2157	B2	3302	A1	4116	B2		
2159	B2	3303	A1	4117	B2		
2161	B2	3304	B1	4118	B2		
2162	B2	3305	B1	4119	B2		
2163	B2	3306	B1	4122	A2		
2165	B2	3312	C1	4137	B2		
2166	B2	3313	C1	4311	C1		
2169	B2	3316	C1	5123	A2		
2171	B2	3317	C1	5130	B2		
2174	C2	3324	C2	5300	A1		
2175	C2	3324	C2	5303	C2		
2180	B2	3340	C1	5305	C1		
2182	B2	3341	C1	5308	C1		
2184	A2	3342	C2	5344	C2		
2186	B2	3343	C2	5345	C2		
2187	B2	3344	C2	7101	A2		
2188	B2	3345	C1	7102	A1		
2189	B2	3346	C1	7104	A2		
2190	B2	3347	C2	7106	C2		
2193	C2	3352	B1	7107	B2		
2195	C2	3353	B1	7108	B2		
2196	B2	3354	C1	7109	B2		
2202	B2	3355	C1	7110	B2		
2203	A2	3355	C1	7111	A2		
2204	A2	3357	A1	7112	B2		
2210	A2	3361	C2	7121	A2		
2301	C1	3362	C2	7131	A1		
2302	A1			7132	A1		
2311	A2			7301	C1		
				7302	A1		
				7303	A2		
				7304	C2		

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

MONO Board Bottom View



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

2102	A1	2248	A2	3166	A1	5106	A1
2104	A1	2249	A2	3167	A1	5107	B2
2106	B1	2250	A1	3168	A1	5108	A2
2108	C1	2261	A1	3171	A1	5109	B1
2111	A1	2303	A2	3172	A1	5111	A1
2112	A1	2304	A2	3173	A1	5112	A1
2113	A1	2305	A2	3174	A1	5115	B1
2116	A1	2306	A2	3175	A1	5116	B1
2117	A2	2307	A2	3176	A1	5117	B1
2118	A2	2308	A2	3177	A1	5118	B1
2119	B2	2309	A2	3178	A1	5119	B1
2120	B2	2312	A1	3201	A1	5122	B1
2121	B2	2321	B2	3202	A1	5124	C1
2122	B1	2322	B2	3203	A1	5125	B1
2123	B1	2324	C2	3204	A1	5126	B1
2127	B2	2325	C2	3205	A1	5131	B2
2131	A1	2326	C2	3206	A1	5132	B2
2132	A1	2327	C2	3207	A1	5133	C2
2133	A2	2328	C2	3208	A1	5134	C2
2134	B2	2329	C2	3325	A1	5135	C2
2135	B2	2341	C1	3326	A1	5136	C2
2136	B1	2342	C1	3327	A1	5301	A1
2139	B1	2343	C1	3328	A1	5306	B2
2142	A1	2344	C1	3358	C2	5307	B2
2146	A1	2345	C1	3359	C2	5323	A1
2150	A2	2346	C1	3377	C1	5340	A2
2152	B1	2350	A2	3378	C1	5341	A2
2155	B1	2351	A2	3379	C1	5342	A1
2158	B1	2352	A2	3380	C1	5343	A1
2164	B1	2353	B2	3398	B2	5346	B2
2167	B1	2354	B2	4106	A1	7103	A1
2168	B1	2355	B2	4135	A2	7122	A1
2172	B1	2356	B2	4136	B2	7133	A2
2173	B1	2357	B2	4140	A1	7134	A2
2181	B1	2360	A2	4141	B2	7135	A2
2183	B1	2361	A2	4142	B1		
2185	B1	2362	A2	4143	B2		
2191	B1	2363	B2	4144	B2		
2194	B1	2364	A1	4145	C2		
2198	B1	2365	A1	4146	C2		
2201	B1	2366	B2	4151	A1		
2207	A1	2395	B2	4152	A1		
2208	A1	3107	A1	4153	A1		
2209	A1	3108	A1	4154	A1		
2211	A1	3110	A1	4155	A1		
2212	A1	3111	A1	4156	A1		
2213	A1	3114	A2	4157	A1		
2214	A1	3115	A2	4158	A1		
2215	A1	3117	A1	4301	A1		
2216	A1	3119	A1	5101	A1		
2241	A2	3125	A1	5103	B1		
2242	A2	3131	A2	5104	C1		
2243	A2	3132	A1	5105	A2		
2245	A2	3133	A2				
2247	A2	3134	A2				
		3135	B2				
		3136	A2				
		3144	B1				
		3146	B1				
		3147	C1				
		3148	C1				
		3155	A1				
		3161	A1				
		3162	A1				
		3163	A1				
		3164	A1				
		3165	A1				

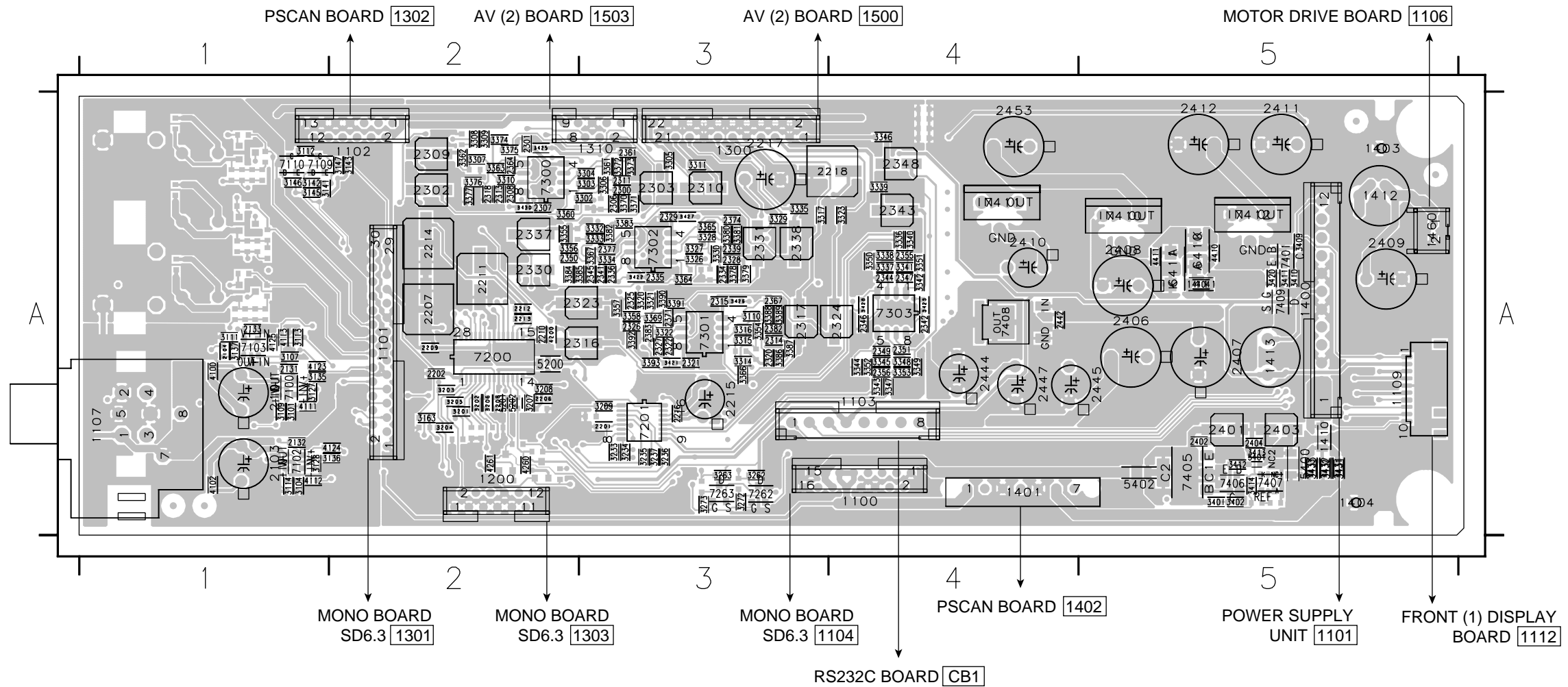
■ PRINTED CIRCUIT BOARD
FOR INFORMATION ONLY (NO REPLACEMENT PARTS WILL BE AVAILABLE)

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AV (1) Board Top View

1100 A4	2201 A3	2302 A2	2327 A3	2355 A4	2442 A4	3127 A1	3202 A2	3306 A3	3338 A4	3364 A3	3390 A3	3433 A5	4432 A5	7301 A3
1101 A2	2202 A2	2303 A3	2328 A3	2356 A4	2444 A4	3128 A1	3203 A2	3307 A2	3339 A4	3365 A3	3391 A3	4100 A1	4433 A5	7302 A3
1102 A2	2206 A2	2306 A3	2329 A3	2361 A3	2445 A5	3135 A1	3204 A2	3308 A2	3340 A4	3366 A3	3392 A3	4102 A1	5200 A2	7303 A4
1103 A4	2207 A2	2307 A2	2330 A2	2364 A2	2447 A4	3136 A1	3205 A2	3309 A2	3341 A4	3367 A3	3393 A3	4111 A1	5201 A2	7401 A5
1107 A1	2208 A2	2308 A2	2331 A3	2367 A2	2453 A4	3137 A1	3206 A2	3310 A2	3342 A4	3369 A3	3401 A5	4112 A1	5202 A2	7405 A5
1108 A5	2209 A2	2309 A2	2334 A3	2371 A3	3101 A1	3141 A1	3207 A2	3311 A3	3343 A4	3370 A3	3402 A5	4113 A1	5400 A5	7406 A5
1109 A5	2210 A2	2310 A3	2335 A3	2374 A3	3104 A1	3142 A1	3208 A2	3314 A3	3344 A4	3371 A3	3409 A5	4200 A2	5401 A5	7407 A5
1200 A2	2211 A2	2311 A3	2336 A3	2377 A3	3107 A1	3143 A2	3209 A3	3315 A3	3345 A4	3372 A3	3410 A5	4260 A2	5402 A5	7408 A4
1300 A3	2212 A2	2313 A2	2337 A2	2382 A3	3109 A1	3145 A1	3233 A3	3316 A3	3346 A4	3373 A3	3411 A5	4261 A2	6410 A5	7409 A5
1310 A3	2213 A2	2314 A3	2338 A3	2383 A3	3110 A3	3146 A1	3234 A3	3317 A3	3347 A4	3374 A2	3412 A5	4262 A3	6411 A5	7410 A5
1400 A5	2214 A2	2315 A3	2339 A3	2401 A5	3111 A1	3147 A2	3235 A3	3320 A3	3348 A4	3375 A2	3413 A5	4263 A3	7100 A1	7411 A4
1401 A4	2215 A3	2316 A3	2341 A3	2402 A5	3112 A1	3163 A2	3236 A3	3321 A3	3349 A4	3376 A2	3414 A5	4404 A5	7102 A1	7412 A5
1403 A5	2216 A3	2317 A3	2342 A4	2403 A5	3113 A1		3237 A3	3322 A3	3350 A4	3377 A2	3420 A5	4410 A5	7103 A1	
1404 A5	2217 A3	2318 A2	2343 A4	2404 A5	3114 A1		3262 A3	3323 A4	3351 A4	3378 A3	3421 A3	4431 A5	7109 A1	
1410 A5	2218 A4	2320 A3	2344 A4	2406 A5			3263 A3	3326 A3	3352 A4	3379 A3	3422 A3		7110 A1	
1411 A5	2300 A3	2321 A3	2345 A3	2407 A5			3272 A3	3327 A3	3353 A4	3380 A3	3423 A4		7200 A2	
1412 A5	2301 A2	2322 A3	2346 A4	2408 A5			3273 A3	3328 A3	3354 A3	3381 A3	3425 A2		7201 A3	
1413 A5		2323 A3	2347 A4	2409 A5			3302 A3	3329 A3	3355 A2	3382 A3	3426 A3		7262 A3	
1460 A5		2324 A4	2348 A4	2410 A4			3303 A3	3330 A3	3356 A2	3383 A3	3427 A3		7263 A3	
2101 A1		2325 A3	2349 A4	2411 A5			3304 A3	3332 A3	3357 A3	3384 A2	3428 A4		7300 A2	
2103 A1		2326 A3	2350 A2	2412 A5			3305 A3	3333 A3	3358 A3	3385 A3	3430 A2			
2104 A1			2351 A4					3334 A3	3360 A2	3386 A3	3431 A5			
								3335 A3	3361 A3	3387 A3	3432 A5			
								3336 A4	3362 A2	3388 A3				
								3337 A4	3363 A2	3389 A3				



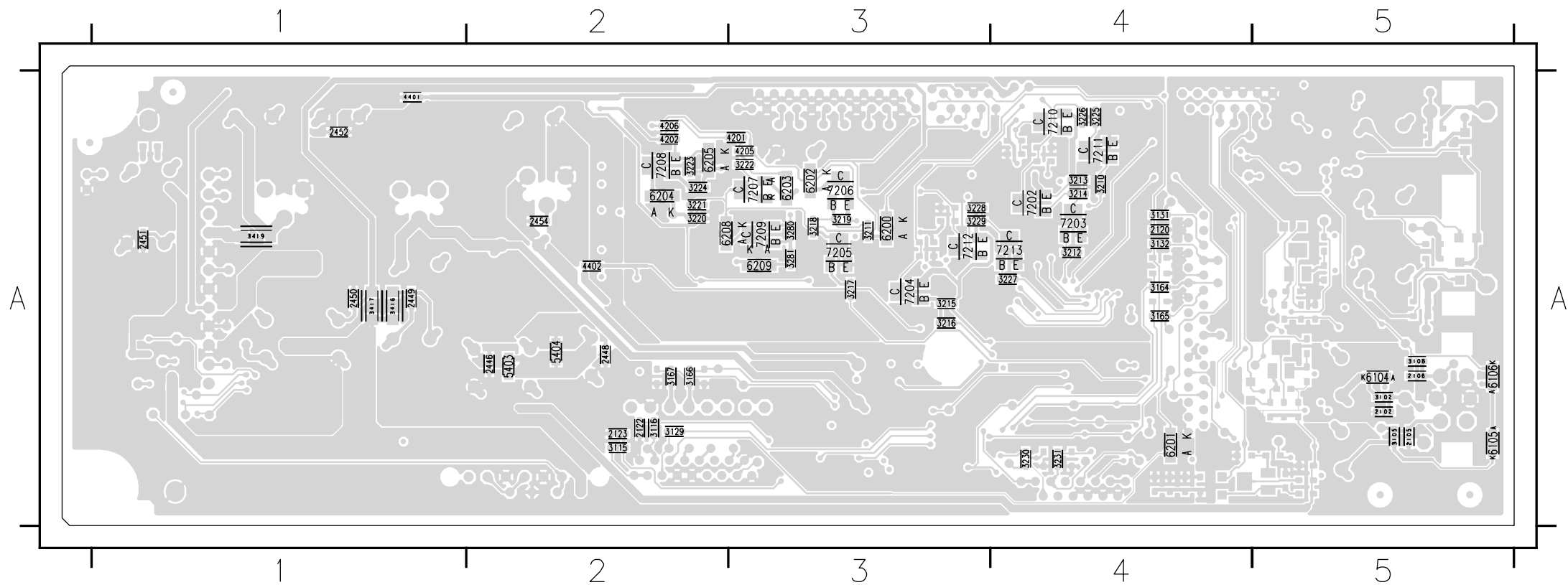
■ PRINTED CIRCUIT BOARD
FOR INFORMATION ONLY (NO REPLACEMENT PARTS WILL BE AVAILABLE)

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

AV (1) Board Bottom View

2102 A5	2120 A4	2425 A4	2451 A1	3129 A2	3164 A4	3165 A4	3217 A3	3227 A4	3280 A3	4205 A3	6104 A5	6209 A3	7208 A2
2105 A5	2122 A2	2431 A4	2452 A1	3131 A4		3166 A2	3218 A3	3228 A3	3281 A3	4206 A2	6105 A5	7202 A4	7209 A3
2106 A5	2123 A2	2437 A4	2454 A2	3132 A4		3167 A2	3219 A3	3229 A3	3416 A1	4401 A1	6106 A5	7203 A4	7210 A4
		2446 A2	3102 A5			3210 A4	3220 A2	3230 A4	3417 A1	4402 A2	6200 A3	7204 A3	7211 A4
		2448 A2	3105 A5			3211 A3	3221 A2	3231 A4	3419 A1	5403 A2	6201 A4	7205 A3	7212 A3
		2449 A1	3108 A5			3212 A4	3222 A3		4201 A3	5404 A2	6202 A3	7206 A3	7213 A4
		2450 A1	3115 A2			3213 A4	3223 A2		4202 A2		6203 A3	7207 A3	
			3116 A2			3214 A4	3224 A2				6204 A2		
						3215 A3	3225 A4				6205 A2		
						3216 A3	3226 A4				6208 A2		



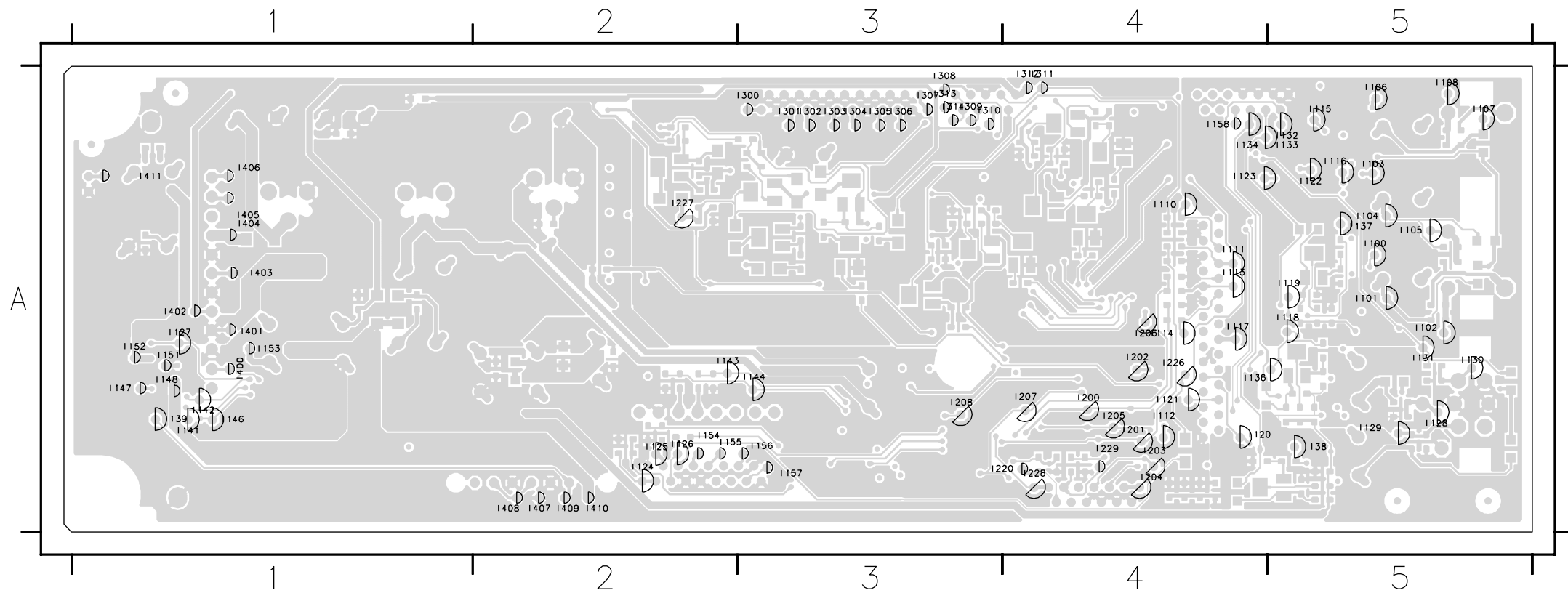
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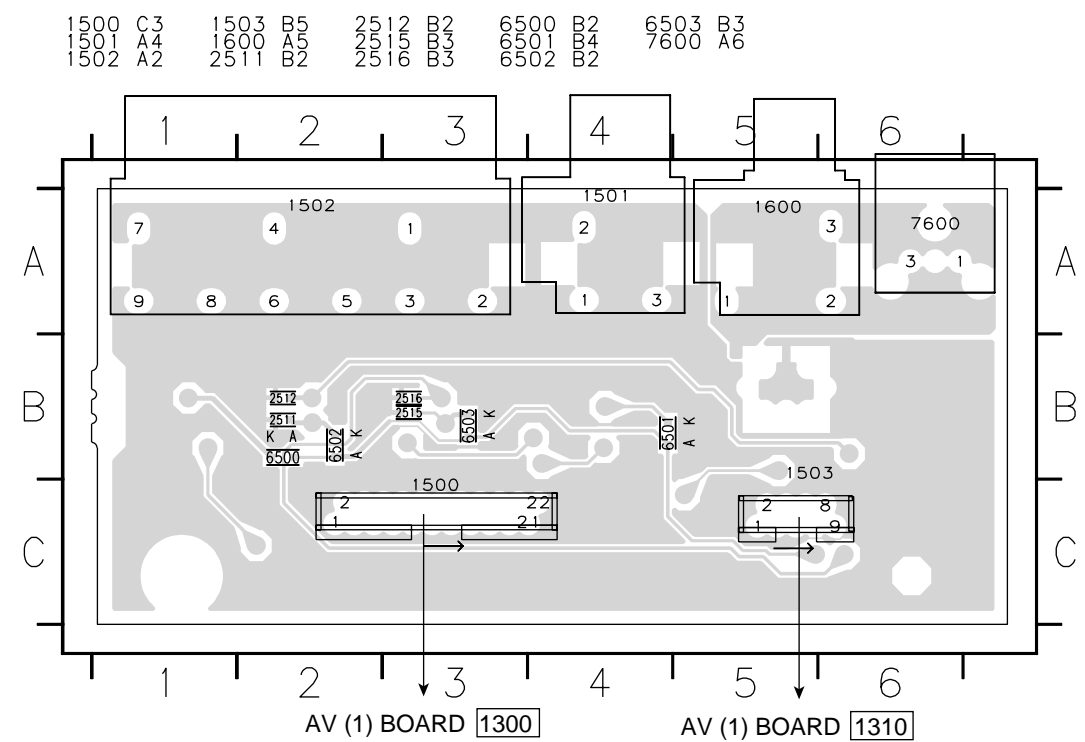
AV (1) Board Testpoint View

1100 A5	1107 A5	1115 A5	1122 A5	1129 A5	1137 A5	1146 A1	1155 A2	1203 A4	1226 A4	1303 A3	1310 A3	1402 A1	1409 A2
1101 A5	1108 A5	1116 A5	1123 A4	1130 A5	1138 A5	1147 A1	1156 A3	1204 A4	1227 A2	1304 A3	1311 A4	1403 A1	1410 A2
1102 A5	1110 A4	1117 A4	1124 A2	1131 A5	1139 A1	1148 A1	1157 A3	1205 A4	1228 A4	1305 A3	1312 A4	1404 A1	1411 A1
1103 A5	1111 A4	1118 A5	1125 A2	1132 A5	1141 A1	1151 A1	1158 A4	1206 A4	1229 A4	1306 A3	1313 A3	1405 A1	
1104 A5	1112 A4	1119 A5	1126 A2	1133 A4	1142 A1	1152 A1	1200 A4	1207 A4	1300 A3	1307 A3	1314 A3	1406 A1	
1105 A5	1113 A4	1120 A4	1127 A1	1134 A4	1143 A2	1153 A1	1201 A4	1208 A3	1301 A3	1308 A3	1400 A1	1407 A2	
1106 A5	1114 A4	1121 A4	1128 A5	1136 A5	1144 A3	1154 A2	1202 A4	1220 A4	1302 A3	1309 A3	1401 A1	1408 A2	



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

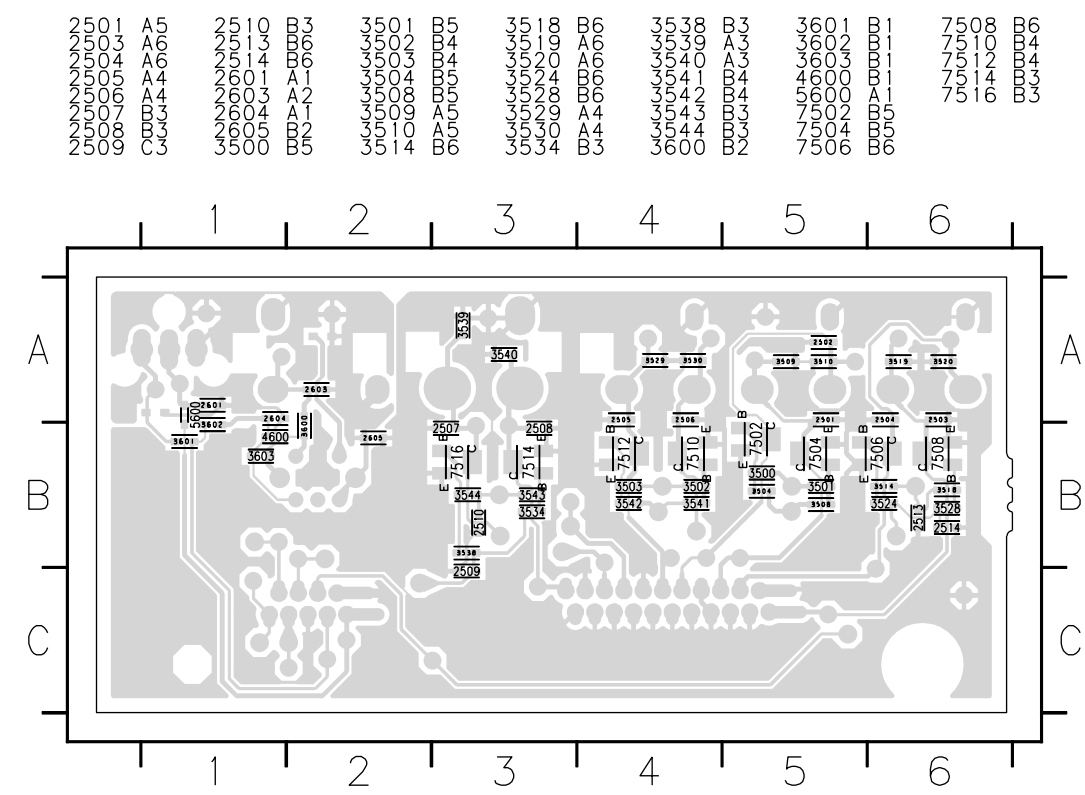
AV (2) Board Top View



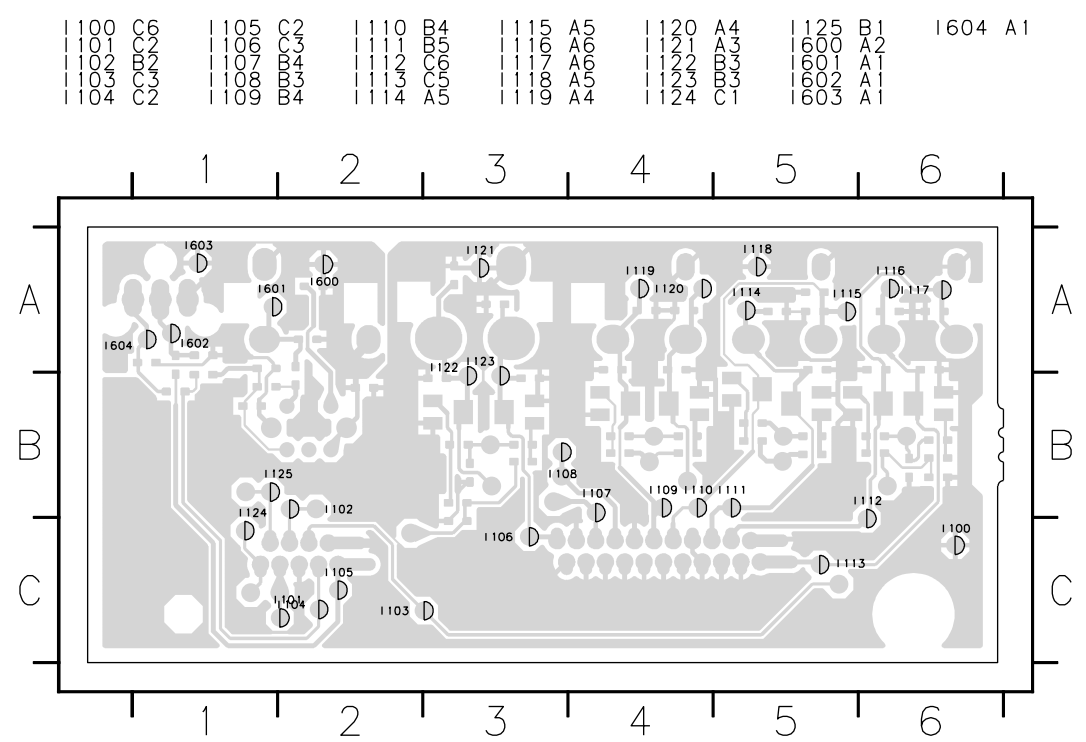
The first digit of a component indicates the component type.

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

AV (2) Board Bottom View



AV (2) Board Testpoint View



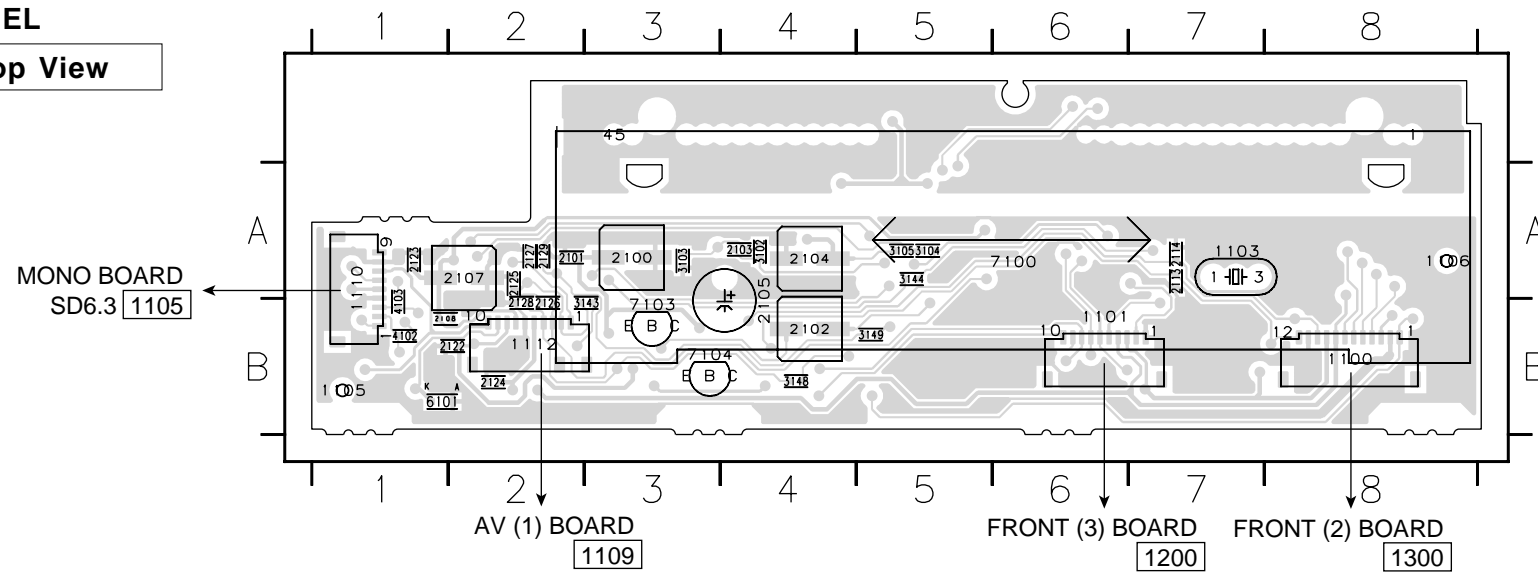
■ PRINTED CIRCUIT BOARD
FOR INFORMATION ONLY (NO REPLACEMENT PARTS WILL BE AVAILABLE)

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

DISPLAY PANEL

Front (1) Board Top View



1100	B8	2127	A2
1101	B6	2128	B2
1103	A7	2129	A2
1105	B1	3102	A4
1106	A8	3103	A3
1110	A1	3104	A5
1112	B2	3105	A5
2100	A3	3143	B3
2101	A2	3144	A5
2102	B4	3148	B4
2103	A4	3149	B5
2104	A4	4102	B1
2105	B4	4103	B1
2107	A2	6101	B1
2108	B1	7100	A6
2113	A7	7103	B3
2114	A7	7104	B3
2122	B2		
2123	A1		
2124	B2		
2125	A2		
2126	B2		

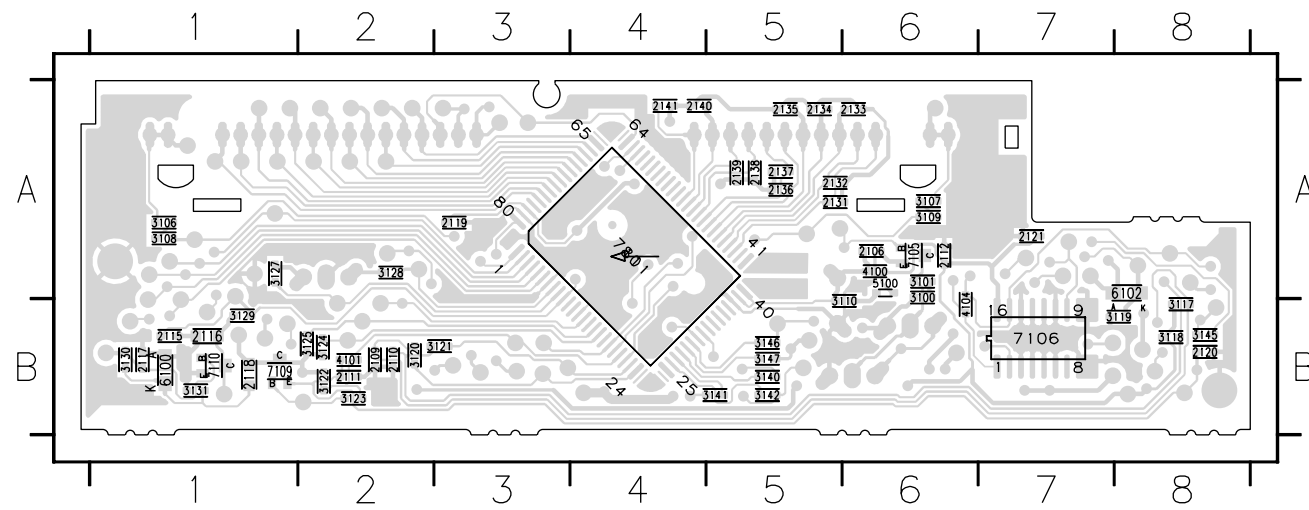
MONO BOARD
SD6.3 1105

AV (1) BOARD
1109

FRONT (3) BOARD
1200

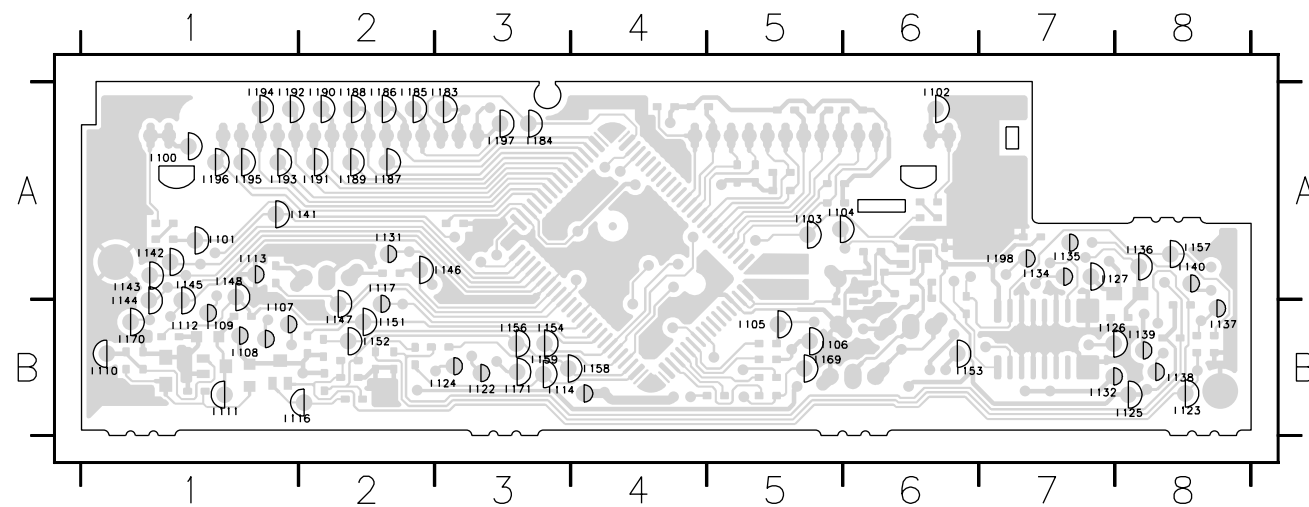
FRONT (2) BOARD
1300

Front (1) Board Bottom View



2106	A6	3100	A6	3142	B5
2109	B2	3101	A6	3145	B8
2110	B2	3106	A1	3146	B5
2111	B2	3107	A6	3147	B5
2112	A6	3108	A1	4100	A6
2115	B1	3109	A6	4101	B2
2116	B1	3110	B6	4104	B6
2117	B1	3117	B8	5100	A6
2118	B1	3118	B8	6100	B1
2119	A3	3119	B8	6102	A8
2120	B8	3120	B2	7101	A4
2121	A7	3121	B3	7105	A6
2131	A5	3122	B2	7106	B7
2132	A5	3123	B2	7109	B1
2133	A6	3124	B2	7110	B1
2134	A5	3125	B2		
2135	A5	3127	A1		
2136	A5	3128	A2		
2137	A5	3129	B1		
2138	A5	3130	B1		
2139	A5	3131	B1		
2140	A4	3140	B5		
2141	A4	3141	B5		

Front (1) Board Testpoint View



1100	A1	1131	A2	1158	B3
1101	A1	1132	B7	1159	B3
1102	A6	1134	A7	1169	B5
1103	A5	1135	A7	1170	B1
1104	A5	1136	A8	1171	B3
1105	B5	1137	B8	1183	A3
1106	B5	1138	B8	1184	A3
1107	B1	1139	B8	1185	A2
1108	B1	1140	A8	1186	A2
1109	B1	1141	A1	1187	A2
1110	B1	1142	A1	1188	A2
1111	B1	1143	A1	1189	A2
1112	B1	1144	B1	1190	A2
1113	A1	1145	B1	1191	A2
1114	B4	1146	A2	1192	A1
1116	B2	1147	B2	1193	A1
1117	B2	1148	A1	1194	A1
1122	B3	1151	B2	1195	A1
1123	B8	1152	B2	1196	A1
1125	B8	1153	B6	1197	A3
1126	B7	1154	B3	1198	A7
1127	A7	1156	B3		
1128	B3	1157	A8		

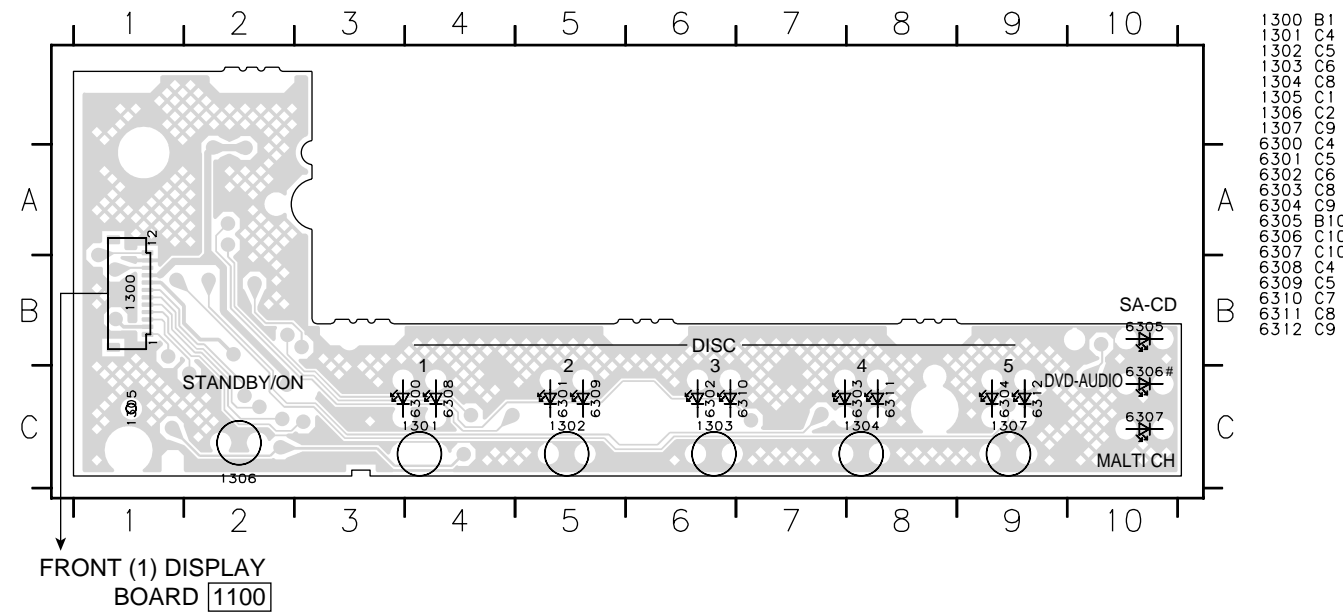
PRINTED CIRCUIT BOARD
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1xxx : Connector 3xxx : Resistor 5xxx : Coil 7xxx : IC, Transistor, FET
 2xxx : Capacitor 4xxx : SMD jumper 6xxx : Diode 9xxx : Wire jumper

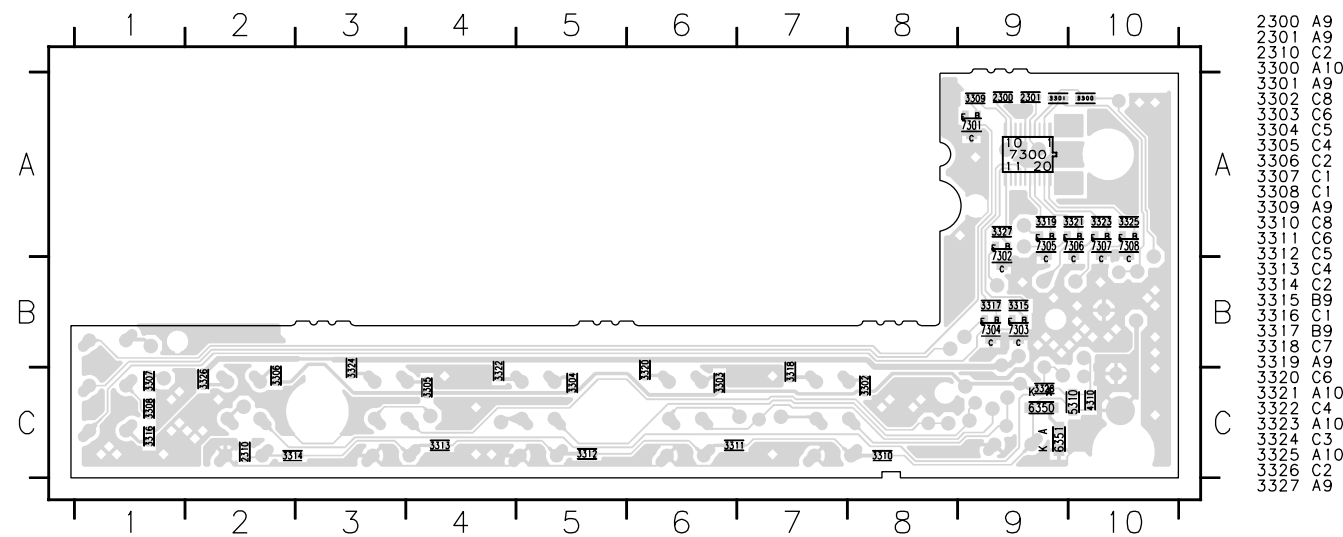
STANDBY/ON

Front (2) Board Top View



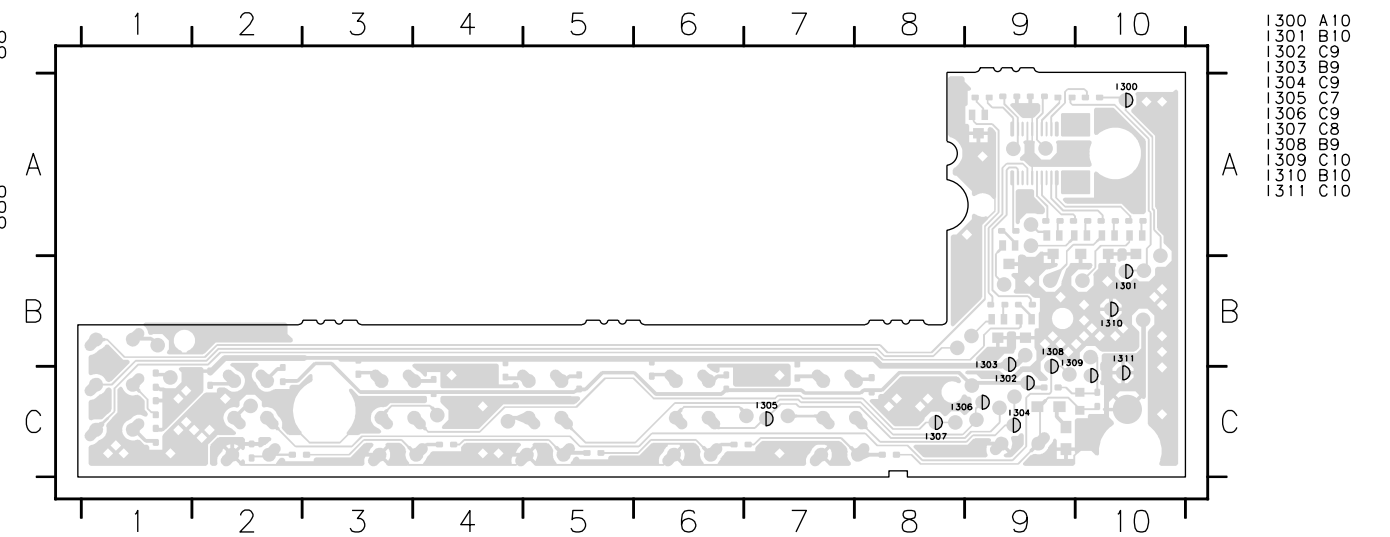
- 1300 B1
- 1301 C4
- 1302 C5
- 1303 C6
- 1304 C8
- 1305 C1
- 1306 C2
- 1307 C9
- 6300 C4
- 6301 C5
- 6302 C6
- 6303 C8
- 6304 C9
- 6305 B10
- 6306 C10
- 6307 C10
- 6308 C4
- 6309 C5
- 6310 C7
- 6311 C8
- 6312 C9

Front (2) Board Bottom View



- 2300 A9
- 2301 A9
- 2310 C2
- 3300 A10
- 3301 A9
- 3302 C8
- 3303 C6
- 3304 C5
- 3305 C4
- 3306 C2
- 3307 C1
- 3308 C1
- 3309 A9
- 3310 C8
- 3311 C6
- 3312 C5
- 3313 C4
- 3314 C2
- 3315 B9
- 3316 C1
- 3317 B9
- 3318 C7
- 3319 A9
- 3320 C6
- 3321 A10
- 3322 C4
- 3323 A10
- 3324 C3
- 3325 A10
- 3326 C2
- 3327 A9

Front (2) Board Testpoint View



- 1300 A10
- 1301 B10
- 1302 C9
- 1303 B9
- 1304 C9
- 1305 C7
- 1306 C9
- 1307 C8
- 1308 B9
- 1309 C10
- 1310 B10
- 1311 C10

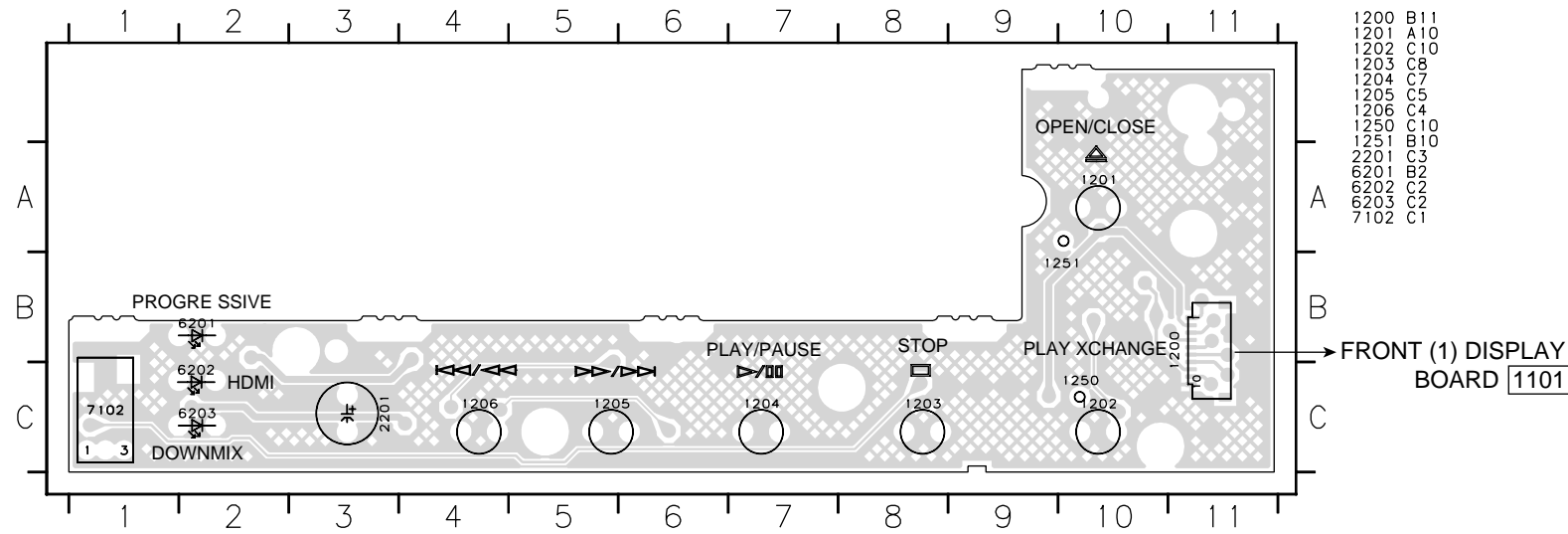
■ PRINTED CIRCUIT BOARD
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The first digit of a component indicates the component type.

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

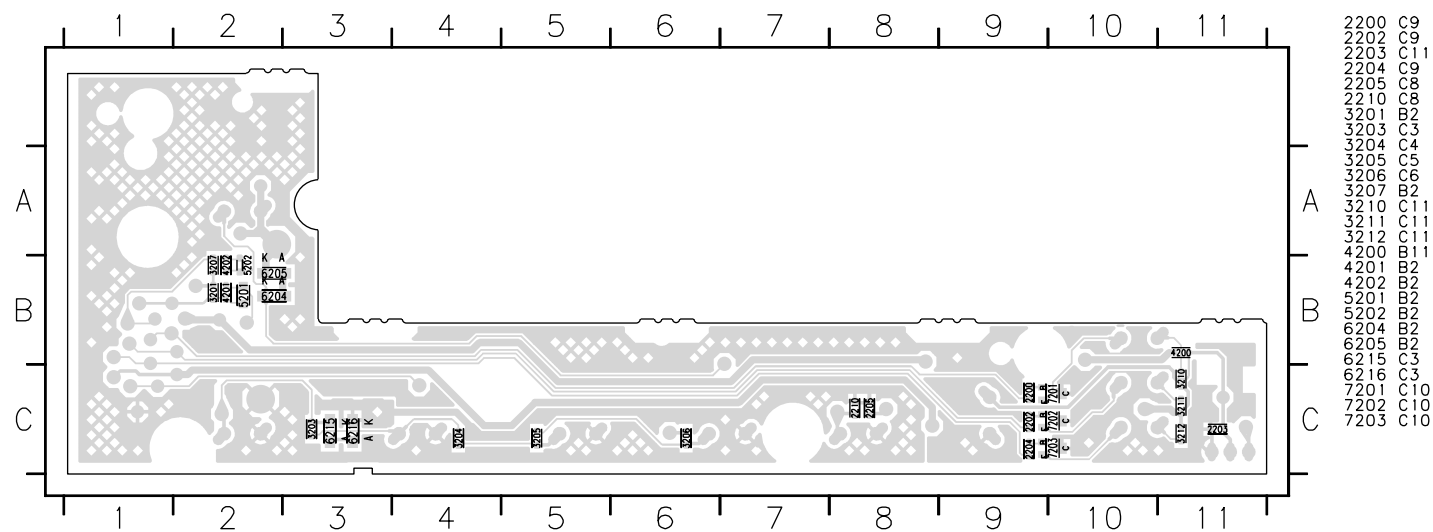
OPEN/CLOSE

Front (3) Board Top View



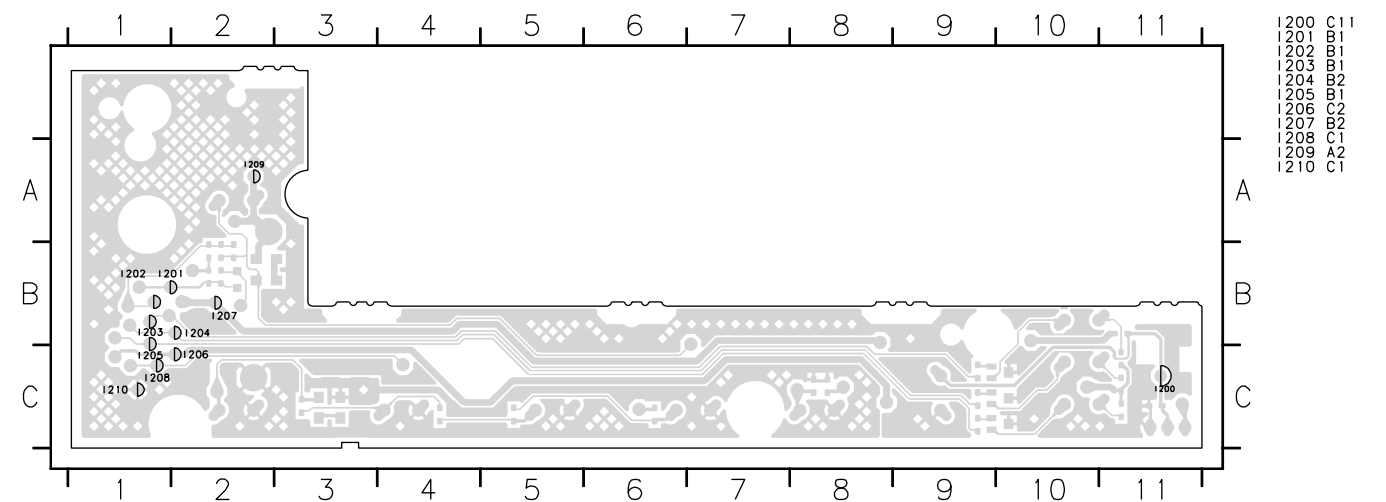
- 1200 B11
- 1201 A10
- 1202 C10
- 1203 C8
- 1204 C7
- 1205 C5
- 1206 C4
- 1250 C10
- 1251 B10
- 2201 C3
- 6201 B2
- 6202 C2
- 6203 C2
- 7102 C1

Front (3) Board Bottom View



- 2200 C9
- 2202 C9
- 2203 C11
- 2204 C9
- 2205 C8
- 2210 C8
- 3201 B2
- 3203 C3
- 3204 C4
- 3205 C5
- 3206 C6
- 3207 B2
- 3210 C11
- 3211 C11
- 3212 C11
- 4200 B11
- 4201 B2
- 4202 B2
- 5201 B2
- 5202 B2
- 6204 B2
- 6205 B2
- 6215 C3
- 6216 C3
- 7201 C10
- 7202 C10
- 7203 C10

Front (3) Board Testpoint View



- 1200 C11
- 1201 B11
- 1202 B1
- 1203 B1
- 1204 B2
- 1205 B1
- 1206 C2
- 1207 B2
- 1208 C1
- 1209 A2
- 1210 C1

SCHEMATIC DIAGRAM FOR INFORMATION ONLY (NO REPLACEMENT PARTS WILL BE AVAILABLE) MONO (1/2)

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

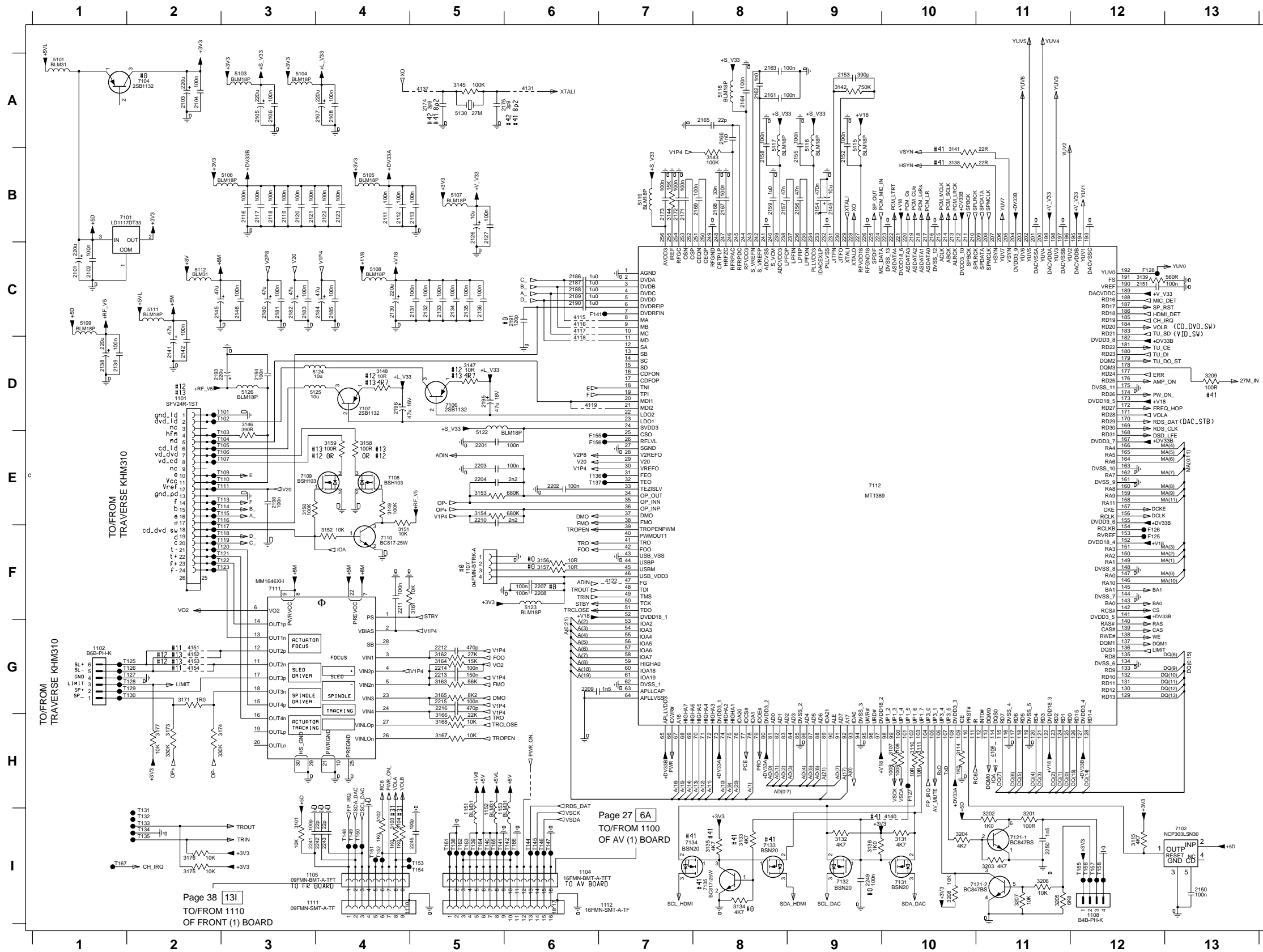


Table listing component part numbers and their corresponding locations on the board, organized by grid coordinates (A-I, 1-13).

Legend table mapping component codes to their descriptions: #0 PROVISION, #11 DV33, #21 WXD-8136, #31 RECEIVERS, #41 DIGITAL VIDEO, #12 DV34, #22 WXD-8229, #32 PLAYERS, #42 ANALOG VIDEO, #13 KHM310, #23 DLM-1D, #24 5CCD

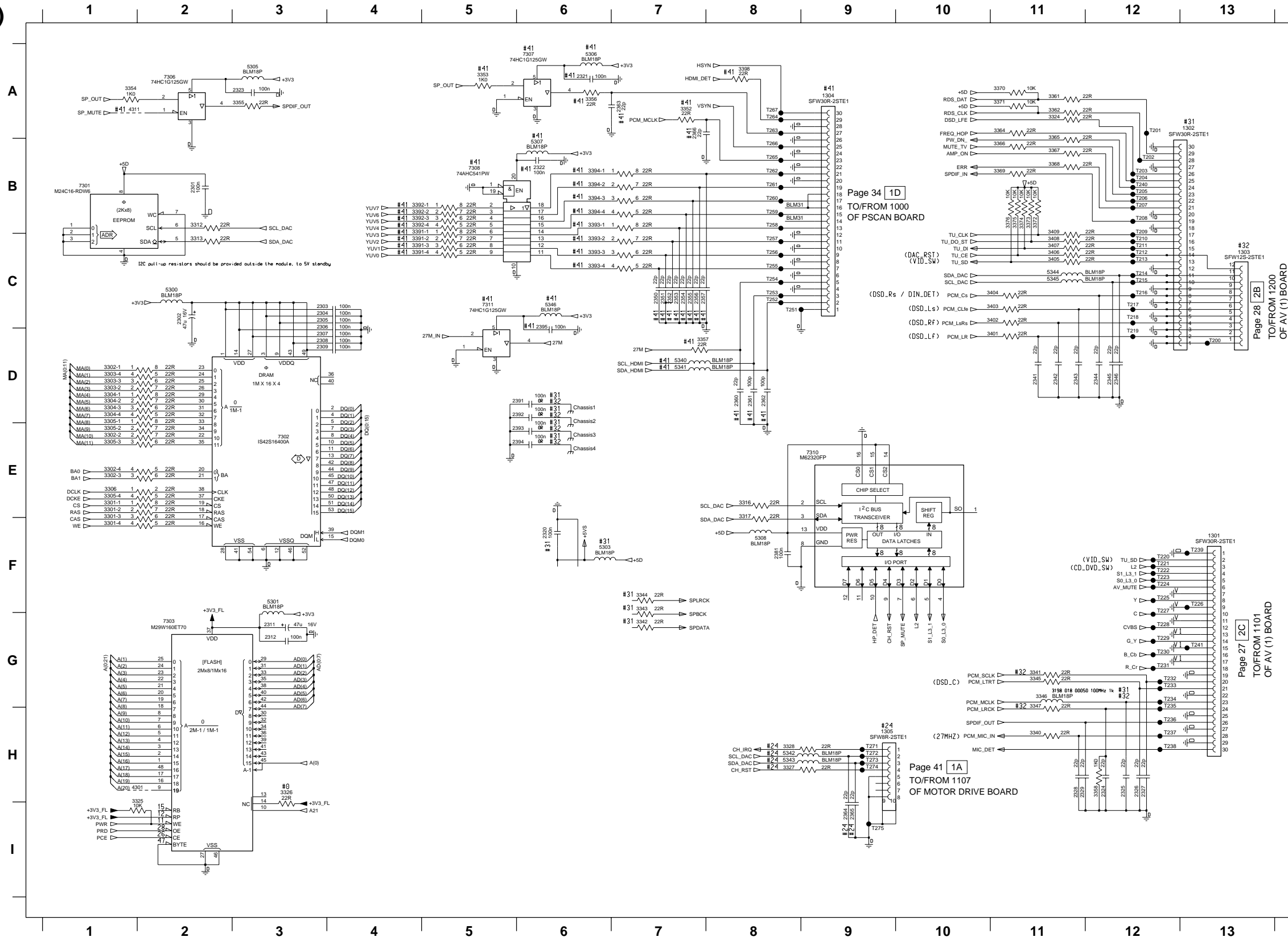
* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

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

MONO (2/2)

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



1301 F13	3358 H12	T233 G12
1302 A13	3359 H12	T234 G12
1303 C13	3361 A11	T235 H12
1304 A9	3362 A11	T236 H12
1305 H9	3364 A11	T237 H12
2301 B2	3365 H11	T238 H12
2302 C2	3366 B11	T239 F13
2303 C3	3367 B11	T240 B12
2304 C3	3368 B11	T241 G13
2305 C3	3369 B11	T241 C8
2306 D3	3370 A11	T252 C8
2307 D3	3371 A11	T252 C8
2308 D3	3372 B11	T254 C8
2309 D3	3373 B11	T255 C8
2311 G3	3374 B11	T256 C8
2312 G3	3375 B11	T257 C8
2315 G5	3376 B11	T258 B8
2316 G5	3391-1 C4	T259 B8
2317 I5	3391-2 C4	T260 B8
2318 I6	3391-3 C4	T261 B8
2319 F5	3391-4 C4	T262 B8
2320 F6	3392-1 B4	T263 A8
2321 A6	3392-2 B4	T264 A8
2322 B6	3392-3 B4	T265 B8
2323 A3	3392-4 B4	T266 B8
2324 H12	3393-1 B6	T267 A8
2325 H12	3393-2 C6	T271 H9
2326 H12	3393-3 C6	T272 H9
2327 H12	3393-4 C6	T273 H9
2328 H11	3394-1 B6	T274 H9
2329 H11	3394-2 B6	T275 I9
2341 D11	3394-3 B6	
2342 D11	3394-4 B6	
2343 D11	3398 A8	
2344 D12	3401 D11	
2345 D12	3402 C11	
2346 D12	3403 C11	
2350 C7	3404 C11	
2351 C7	3405 C11	
2352 C7	3406 C11	
2353 C7	3407 C11	
2354 C7	3408 C11	
2355 C7	3409 C11	
2356 C7	4301 H2	
2357 C7	4311 A3	
2360 D8	5300 C2	
2361 D8	5301 F3	
2362 D8	5302 F5	
2363 A7	5303 F6	
2364 I9	5305 A3	
2365 I9	5306 A6	
2366 A7	5307 B6	
2367 A7	5308 F8	
2391 D6	5322 H8	
2392 D6	5340 D7	
2393 E6	5341 D7	
2394 E6	5342 H8	
2395 D6	5343 H8	
3301-1 E1	5344 C11	
3301-2 E1	5345 C11	
3301-3 F1	5346 C6	
3301-4 F1	7301 B1	
3302-1 D1	7303	
3302-2 E1	7303 G2	
3302-3 E1	7304 F5	
3302-4 E1	7306 A2	
3303-2 D1	7307 A6	
3303-3 D1	7308 B5	
3303-4 D1	7310 E9	
3304-1 D1	7311 C5	
3304-2 D1	T200 D13	
3304-3 D1	T201 A12	
3304-4 D1	T202 B12	
3305-1 E1	T203 B12	
3305-2 E1	T204 B12	
3305-3 E1	T205 B12	
3305-4 E1	T206 B12	
3306 E1	T207 B12	
3310 B3	T208 B12	
3311 B3	T209 C12	
3312 B2	T210 C12	
3313 C2	T211 C12	
3316 E8	T212 C12	
3317 F8	T213 C12	
3324 A11	T214 C12	
3325 I2	T215 C12	
3326 H3	T216 C12	
3327 H8	T217 C12	
3328 H8	T218 C12	
3335 G4	T219 D12	
3336 H5	T220 F12	
3337 I6	T221 F12	
3338 H5	T222 F12	
3340 H11	T223 F12	
3341 G11	T224 F12	
3342 G7	T225 F12	
3343 F7	T226 F13	
3344 F7	T227 G12	
3345 G11	T228 G12	
3346 G11	T229 G12	
3347 H11	T230 G12	
3348 H5	T231 G12	
3352 A7	T232 G12	
3353 A5		
3354 A1		
3355 A3		
3356 A6		
3357 D7		

#0 PROVISION	#11 DV33	#21 WXD-8136	#31 RECEIVERS	#41 DIGITAL VIDEO
	#12 DV34	#22 WXD-8229	#32 PLAYERS	#42 ANALOG VIDEO
	#13 KHM310	#23 DLM-1D		
		#24 5CDC		

* 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.

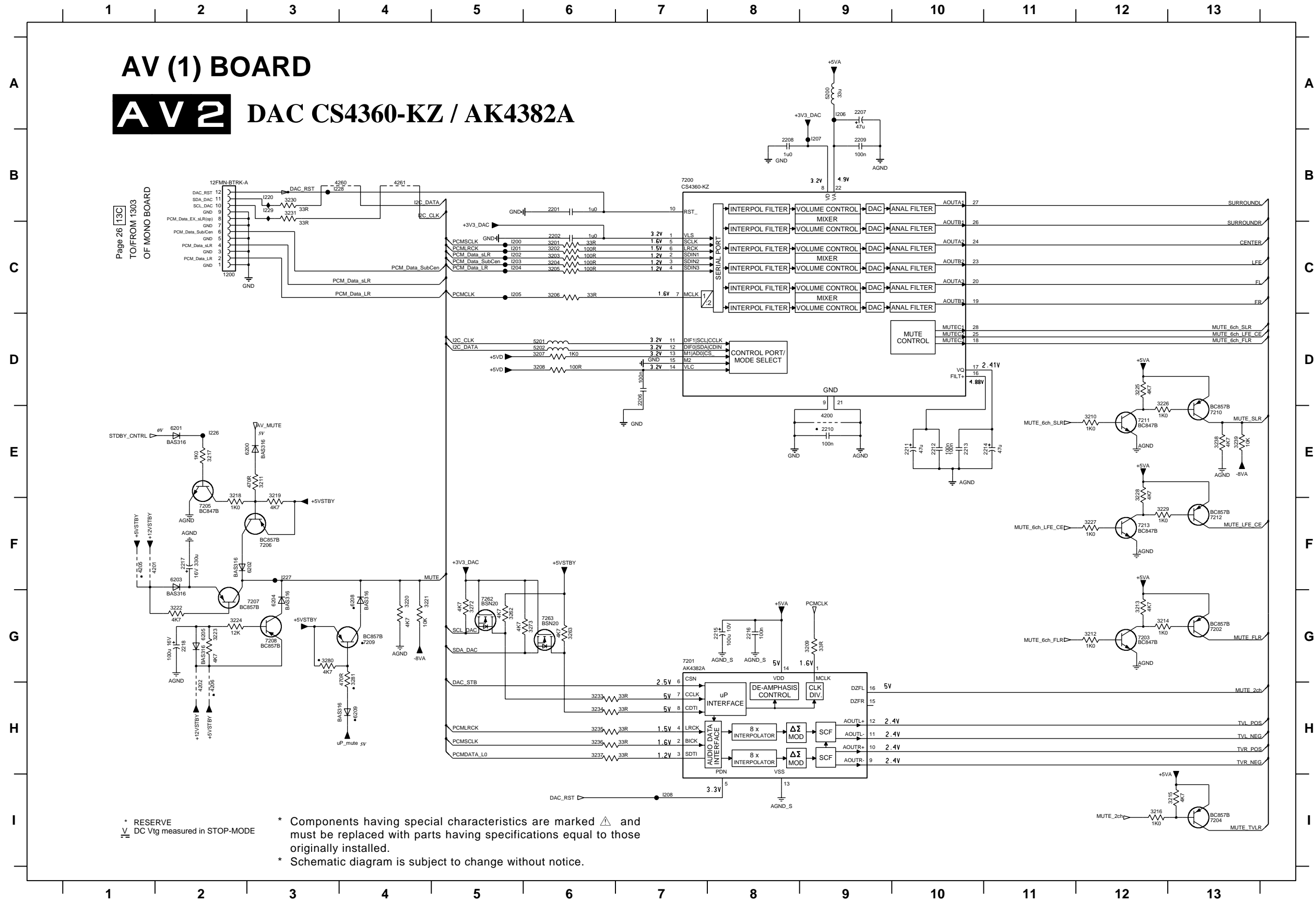
SCHEMATIC DIAGRAM
FOR INFORMATION ONLY (NO REPLACEMENT PARTS WILL BE AVAILABLE)

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 (1) BOARD

AV2 DAC CS4360-KZ / AK4382A



- 1200 C2
- 2201 B6
- 2202 C6
- 2206 D7
- 2207 A9
- 2208 B8
- 2209 B9
- 2210 E9
- 2211 E10
- 2212 E10
- 2213 E10
- 2214 E11
- 2215 G8
- 2216 G8
- 2217 F2
- 2218 G2
- 3201 C6
- 3202 C6
- 3203 C6
- 3204 C6
- 3205 C6
- 3206 C6
- 3207 D6
- 3208 D6
- 3209 G9
- 3210 E12
- 3211 E3
- 3212 G12
- 3213 G12
- 3214 G12
- 3215 H3
- 3216 H2
- 3217 E2
- 3218 E2
- 3219 E3
- 3220 G4
- 3221 G4
- 3222 G2
- 3223 G2
- 3224 G2
- 3225 D12
- 3226 D12
- 3227 F12
- 3228 E12
- 3229 F12
- 3230 B3
- 3231 B3
- 3233 H6
- 3234 H6
- 3235 H6
- 3236 H6
- 3237 H6
- 3262 G5
- 3263 G6
- 3272 G5
- 3273 G6
- 3280 G3
- 3281 G4
- 4200 E9
- 4201 F2
- 4202 H2
- 4205 F1
- 4206 H2
- 4260 B4
- 4261 B4
- 5200 A9
- 5201 D6
- 5202 D6
- 6200 E2
- 6201 E2
- 6202 F3
- 6203 F2
- 6204 G3
- 6205 G2
- 6208 G4
- 6209 H4
- 7200 B7
- 7201 G7
- 7202 G13
- 7203 G12
- 7204 H3
- 7205 F2
- 7206 F3
- 7207 G3
- 7208 G3
- 7209 G4
- 7210 E13
- 7211 E12
- 7212 F13
- 7213 F12
- 7262 G5
- 7263 G6
- 1200 C5
- 1201 C5
- 1202 C5
- 1203 C5
- 1204 C5
- 1205 C5
- 1206 A9
- 1207 B9
- 1208 I7
- 1220 B3
- 1226 E2
- 1227 F3
- 1228 B3
- 1229 B3

* RESERVE
V DC Vtg measured in STOP-MODE

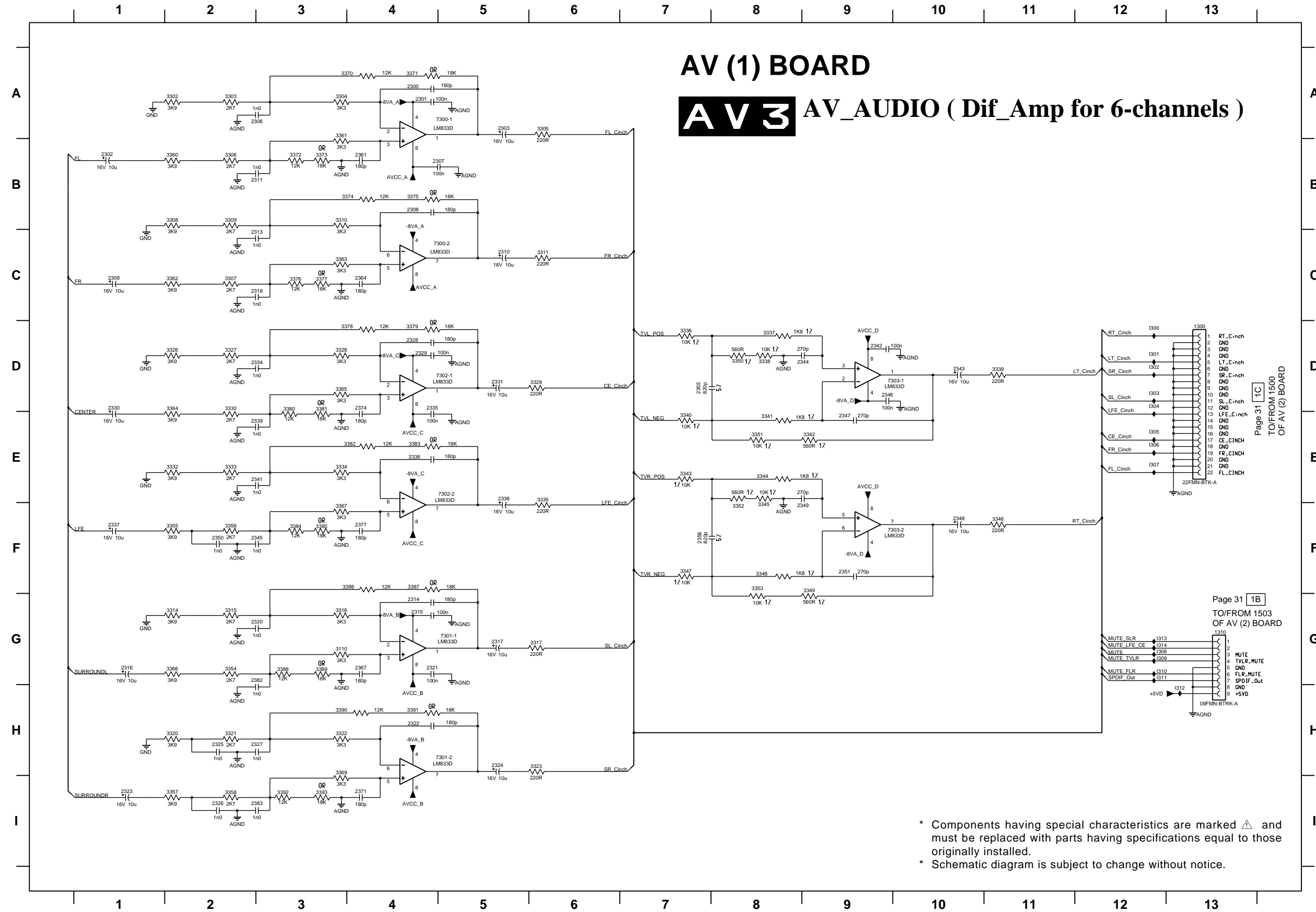
* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.

* Schematic diagram is subject to change without notice.

SCHEMATIC DIAGRAM
FOR INFORMATION ONLY (NO REPLACEMENT 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 (1) BOARD

AV3 AV_AUDIO (Dif_Amp for 6-channels)

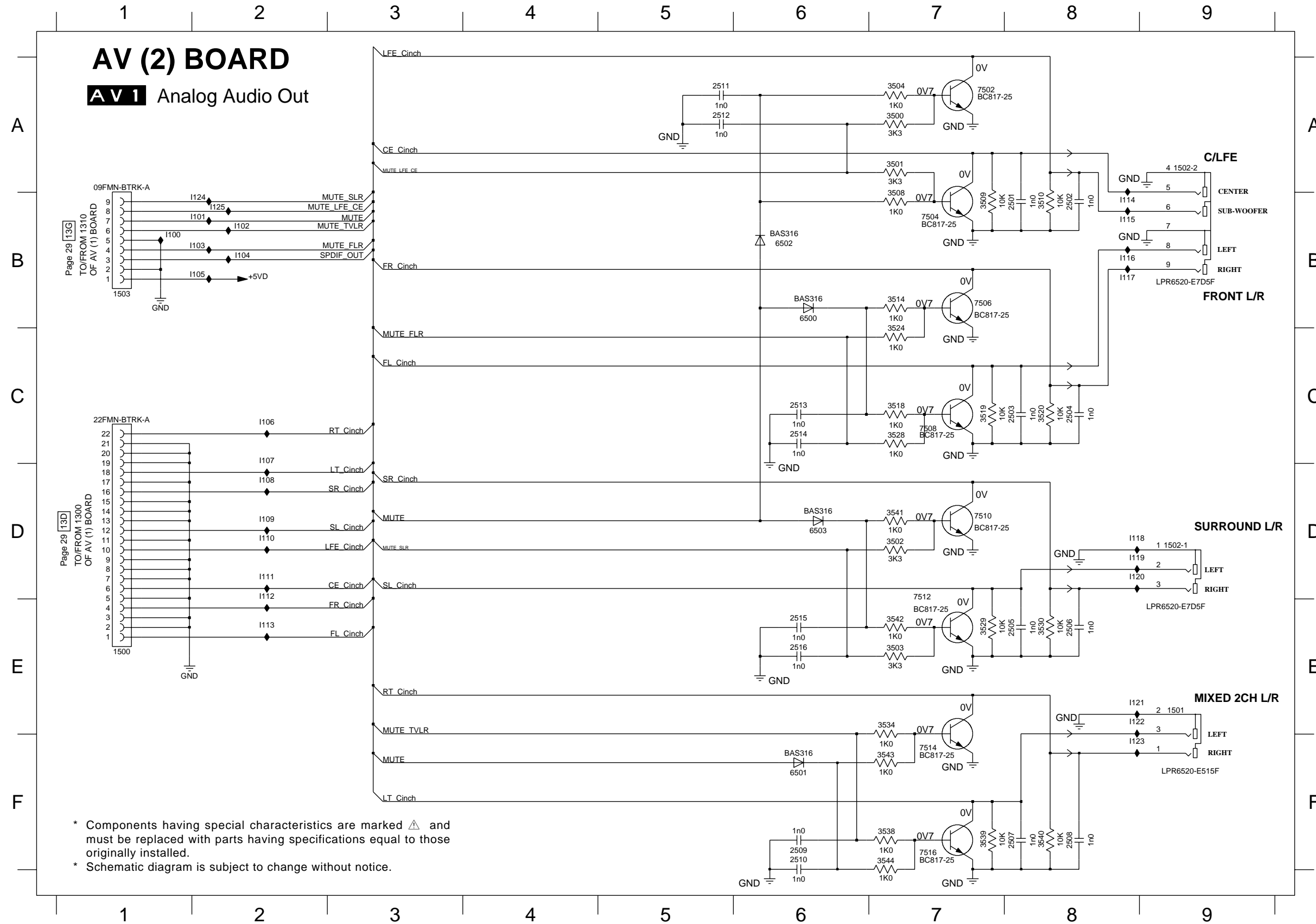
1300 D13	3355 F2
1310 G13	3356 F2
2300 A4	3357 I2
2301 A4	3358 I2
2302 B1	3360 B2
2303 A5	3361 A3
2306 A3	3362 C2
2307 B5	3363 C3
2308 B4	3364 D3
2309 C1	3365 D3
2310 C5	3366 G2
2311 B3	3367 F3
2313 C4	3368 H3
2314 G4	3370 A4
2315 G4	3371 A4
2316 G1	3372 B3
2317 G5	3373 B3
2318 C3	3374 B4
2320 G3	3375 B4
2321 G4	3376 C3
2322 H4	3377 C3
2323 H1	3378 D4
2324 H5	3379 D4
2325 H2	3380 D3
2326 I2	3381 D3
2327 H3	3382 E4
2328 D4	3383 E4
2329 D4	3384 F3
2330 D1	3385 F3
2331 D5	3386 F4
2334 D3	3387 F4
2335 D4	3388 G3
2336 E4	3389 G3
2337 F1	3390 H3
2338 E5	3391 H4
2339 E3	3392 I3
2341 E3	3393 I3
2342 D9	7300-1 A4
2343 D10	7300-2 C4
2344 D9	7301-1 G5
2345 F3	7301-2 H4
2346 D9	7302-1 D4
2347 E9	7302-2 E5
2348 F10	7303-1 D9
2349 F9	7303-2 F9
2350 F2	I300 D12
2351 F9	I301 D12
2352 D7	I302 D12
2355 F7	I303 D12
2356 F7	I303 D12
2361 B4	I304 D12
2364 C4	I305 E12
2367 G4	I306 E12
2371 I4	I307 E12
2374 D4	I308 G12
2377 F4	I309 G12
2382 G3	I310 G12
2383 I3	I311 G12
2384 G3	I312 H13
2385 G3	I313 G12
2386 A2	I314 G12
2387 A3	
2388 A6	
2389 B2	
2390 B2	
2391 B2	
2392 B2	
2393 B2	
2394 B2	
2395 B2	
2396 B2	
2397 B2	
2398 B2	
2399 B2	
2400 B2	
2401 B2	
2402 B2	
2403 B2	
2404 B2	
2405 B2	
2406 B2	
2407 B2	
2408 B2	
2409 B2	
2410 B2	
2411 B2	
2412 B2	
2413 B2	
2414 B2	
2415 B2	
2416 B2	
2417 B2	
2418 B2	
2419 B2	
2420 B2	
2421 B2	
2422 B2	
2423 B2	
2424 B2	
2425 B2	
2426 B2	
2427 B2	
2428 B2	
2429 B2	
2430 B2	
2431 B2	
2432 B2	
2433 B2	
2434 B2	
2435 B2	
2436 B2	
2437 B2	
2438 B2	
2439 B2	
2440 B2	
2441 B2	
2442 B2	
2443 B2	
2444 B2	
2445 B2	
2446 B2	
2447 B2	
2448 B2	
2449 B2	
2450 B2	
2451 B2	
2452 B2	
2453 B2	
2454 B2	
2455 B2	
2456 B2	
2457 B2	
2458 B2	
2459 B2	
2460 B2	
2461 B2	
2462 B2	
2463 B2	
2464 B2	
2465 B2	
2466 B2	
2467 B2	
2468 B2	
2469 B2	
2470 B2	
2471 B2	
2472 B2	
2473 B2	
2474 B2	
2475 B2	
2476 B2	
2477 B2	
2478 B2	
2479 B2	
2480 B2	
2481 B2	
2482 B2	
2483 B2	
2484 B2	
2485 B2	
2486 B2	
2487 B2	
2488 B2	
2489 B2	
2490 B2	
2491 B2	
2492 B2	
2493 B2	
2494 B2	
2495 B2	
2496 B2	
2497 B2	
2498 B2	
2499 B2	
2500 B2	

* 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 REPLACEMENT 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



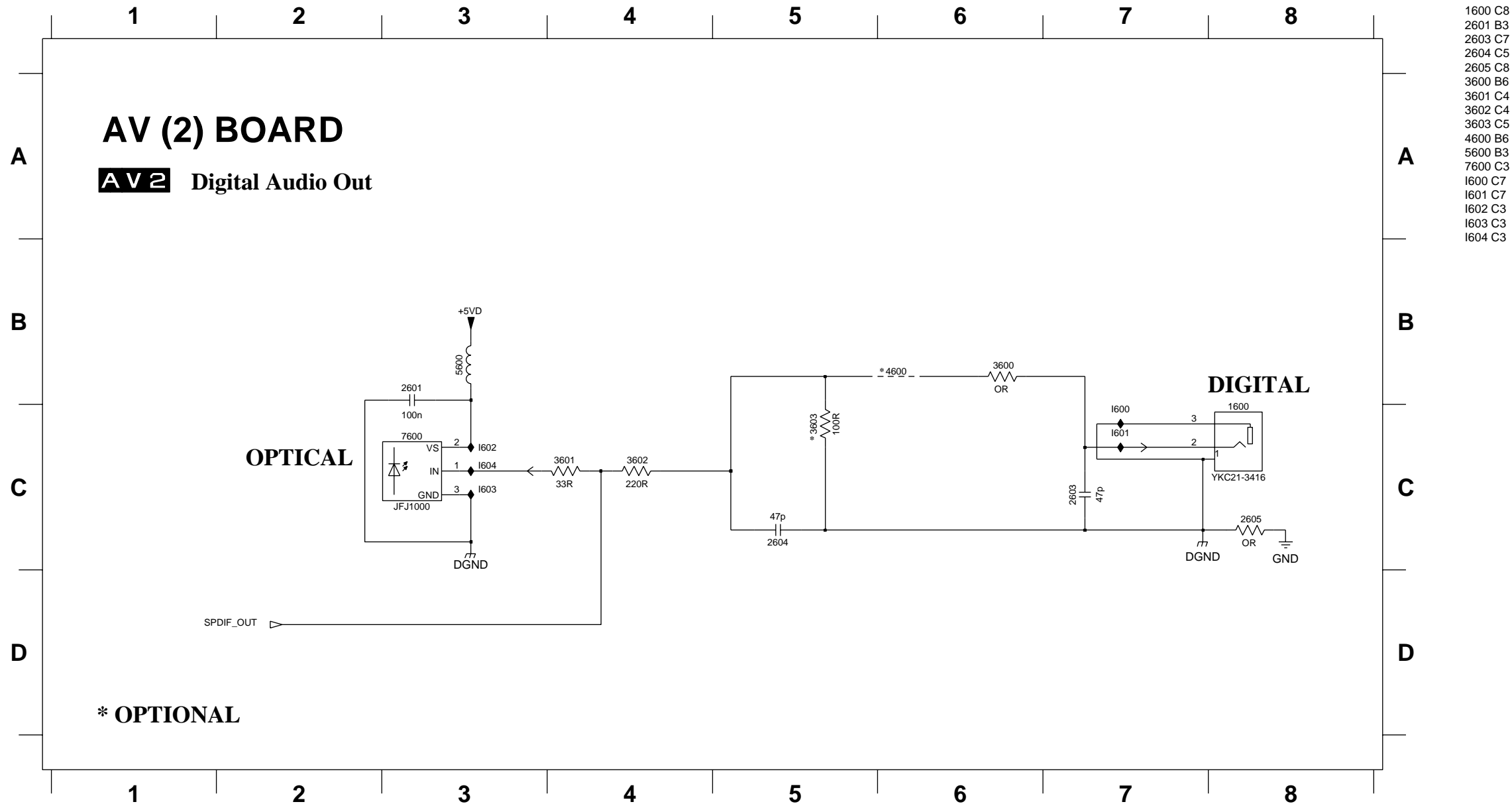
- 1501 E9
- 1502-1 D9
- 1502-2 A9
- 1503 B1
- 1504 E1
- 2501 B8
- 2502 B8
- 2503 C8
- 2504 C8
- 2505 E8
- 2506 E8
- 2507 F8
- 2508 F8
- 2509 F6
- 2510 F6
- 2511 A5
- 2512 A5
- 2513 C6
- 2514 C6
- 2515 E6
- 2516 E6
- 3500 A7
- 3501 A7
- 3502 D7
- 3503 E7
- 3504 A7
- 3508 B7
- 3509 B7
- 3510 B8
- 3514 B7
- 3518 C7
- 3519 C7
- 3520 C8
- 3524 C7
- 3528 C7
- 3529 E7
- 3530 E8
- 3534 E7
- 3538 F7
- 3539 F7
- 3540 F8
- 3541 D7
- 3542 E7
- 3543 F7
- 3544 F7
- 6500 B6
- 6501 F6
- 6502 B6
- 6503 D6
- 7502 A7
- 7504 B7
- 7506 B7
- 7508 C7
- 7510 D7
- 7512 E7
- 7514 F7
- 7516 F7
- 1100 B1
- 1101 B2
- 1102 B2
- 1103 B2
- 1104 B2
- 1105 B2
- 1106 C2
- 1107 C2
- 1108 D2
- 1109 D2
- 1110 D2
- 1111 D2
- 1112 D2
- 1113 E2
- 1114 B8
- 1115 B8
- 1116 B8
- 1117 B8
- 1118 D8
- 1119 D8
- 1120 D8
- 1121 E8
- 1122 E8
- 1123 F8
- 1124 B2
- 1125 B2

* 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 REPLACEMENT 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 |



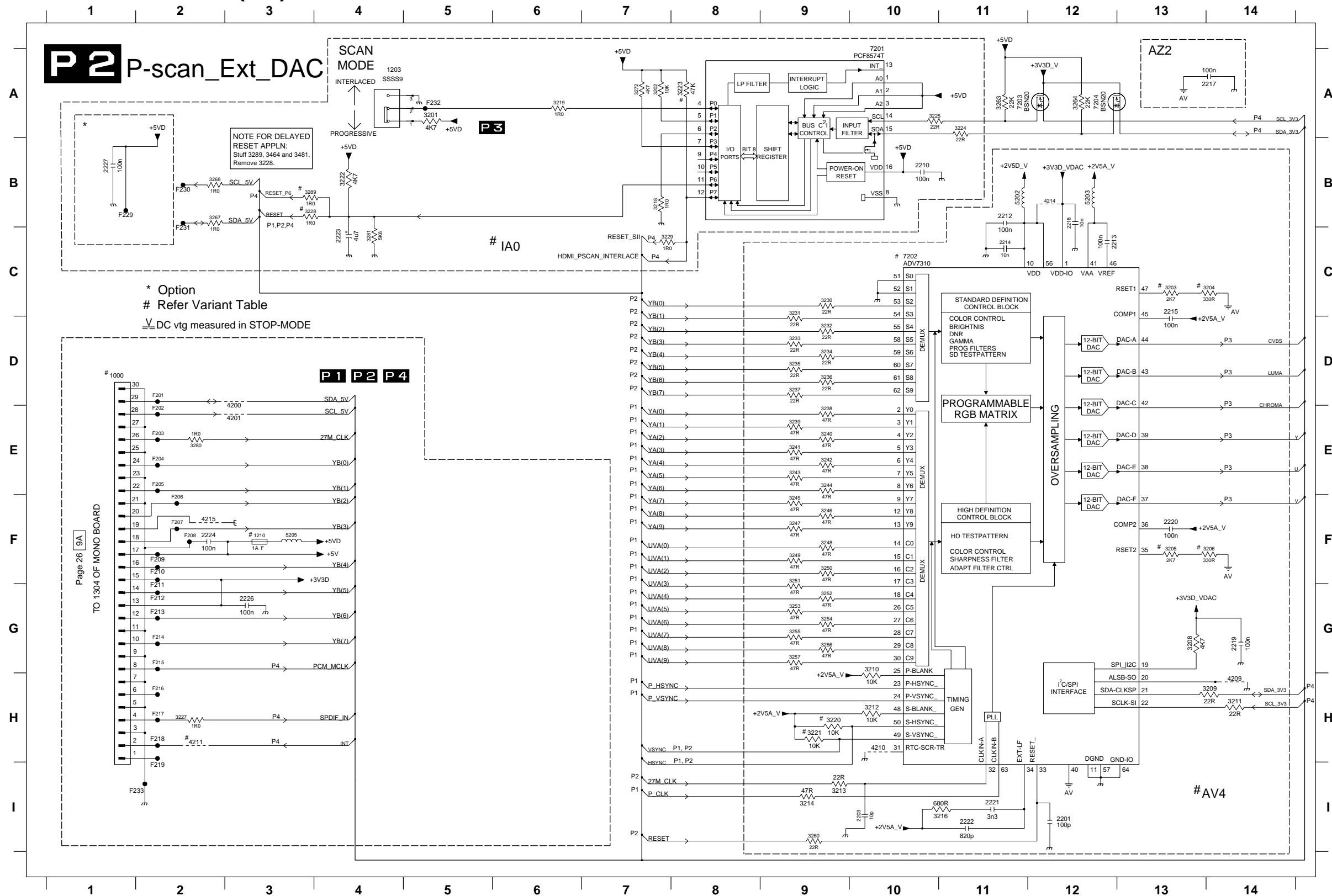
* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

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

PSCAN BOARD (2/4)

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
1203 A4
1210 F3
2201 H2
2203 H0
2210 B10
2212 B11
2213 C12
2214 C11
2215 C13
2217 A14
2218 B12
2219 G14
2220 F13
2221 H11
2222 H11
2223 C4
2224 F2
2226 G3
2227 B1
2228 H6
3201 A5
3202 A7
3203 C13
3204 C14
3205 F13
3206 F14
3208 G13
3209 H14
3210 G10
3211 H14
3212 H10
3213 I9
3214 I9
3216 H11
3218 B7
3219 A6
3220 H9
3221 H9
3222 B4
3223 A8
3224 A11
3225 A10
3227 H2
3228 B3
3229 C7
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
3260 I9
3263 A11
3264 A12
3267 B2
3268 B2
3272 A7
3280 E2
3281 C4
3289 B3
4200 D3
4201 E3
4209 H14
4210 H10
4211 H2
4214 B12
4215 B12
4215 F2
5202 B11
5203 B12
5205 F3
7201 A10
7202 C10
7203 A11
7204 A12
F201 D2
F202 E2
F203 E2
F204 E2
F205 E2
F206 F2
F207 F2
F208 F2
F209 F2
F210 F2
F211 G2
F212 G2
F213 G2
F214 G2
F215 G2
F216 H2
F217 H2
F218 H2
F219 I2
F220 G5
F221 G5
F222 G5
F223 H5
F224 H5
F225 H5
F226 H5
F227 I5
F228 I5
F229 B1
F230 B2
F231 C2
F232 A5
F233 I2

* Option
Refer Variant Table
V DC vtg measured in STOP-MODE

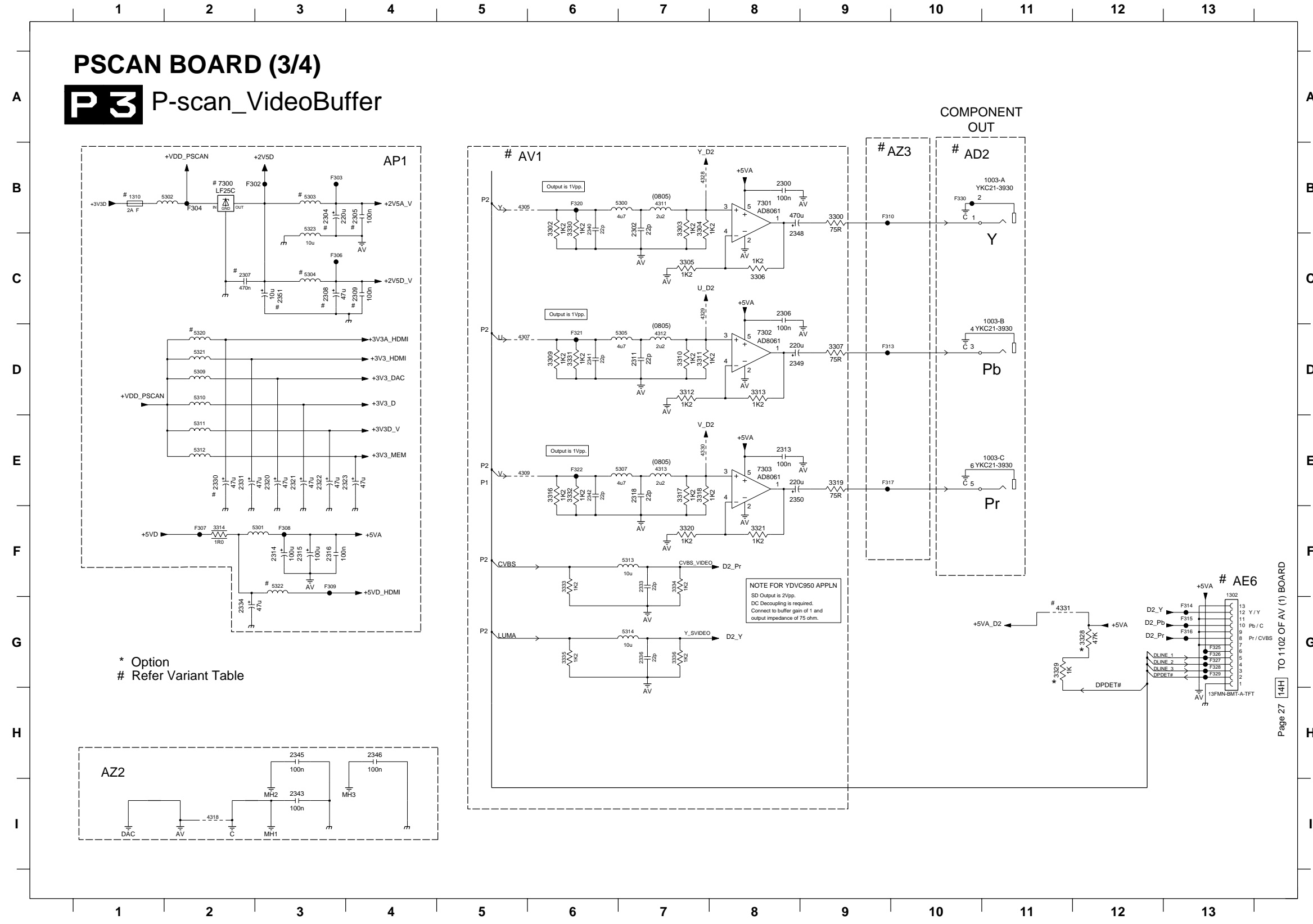
NOTE FOR DVDR755 APPLN: If 5V for HDMI socket from external source, 5205 is in to supply 5V circuitry, 5206 is out and provisional. See P4.
NOTE FOR VIDEO DAC 7202 APPLN: ADV7320 supports CGMS 625P. ADV7320 must be used for EU version. Running change to ADV7320 for other regions.

* 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 REPLACEMENT PARTS WILL BE AVAILABLE)

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2xxx : Capacitor 4xxx : SMD jumper 6xxx : Diode 9xxx : Wire jumper



1003-A B11	5300 B7
1003-B C11	5301 F3
1003-C E11	5302 B2
1302 F13	5303 B3
1310 B1	5304 C3
2300 B8	5305 D7
2302 B7	5307 E7
2304 B3	5309 D2
2305 B4	5310 D2
2306 C8	5311 E2
2307 C2	5312 E2
2308 C3	5313 F7
2309 C4	5314 G7
2311 D7	5320 D2
2313 E8	5321 D2
2314 F3	5322 F3
2315 F3	5323 B3
2316 F3	5306 B2
2318 E7	7301 B8
2320 E3	7302 D8
2321 E3	7303 E8
2322 E3	F302 B2
2323 E4	F303 B3
2330 E2	F304 B2
2331 E2	F306 C3
2333 F7	F307 F2
2334 G2	F307 F2
2336 G7	F308 F3
2340 B6	F309 F3
2341 D6	F310 B9
2342 E6	F313 D9
2343 I3	F314 G13
2345 H3	F315 G13
2346 H4	F316 G13
2348 B8	F317 E9
2349 D8	F320 B6
2350 E8	F321 D6
2351 C3	F322 E6
3300 B9	F324 D13
3302 B6	F325 G13
3303 B7	F326 G13
3304 B7	F327 G13
3305 C7	F328 G13
3306 C8	F329 G13
3307 D9	F330 B10
3309 D6	
3310 D7	
3311 D7	
3312 D7	
3313 D8	
3314 F2	
3316 E6	
3317 E7	
3318 E7	
3319 E9	
3320 F7	
3321 F8	
3330 B6	
3331 D6	
3332 E6	
3333 F6	
3334 F7	
3335 G6	
3336 G7	
4305 B5	
4307 D5	
4309 E5	
4311 B7	
4312 D7	
4313 E7	
4318 I2	
4325 I2	
4328 B7	
4329 C7	
4330 E7	

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* Schematic diagram is subject to change without notice.

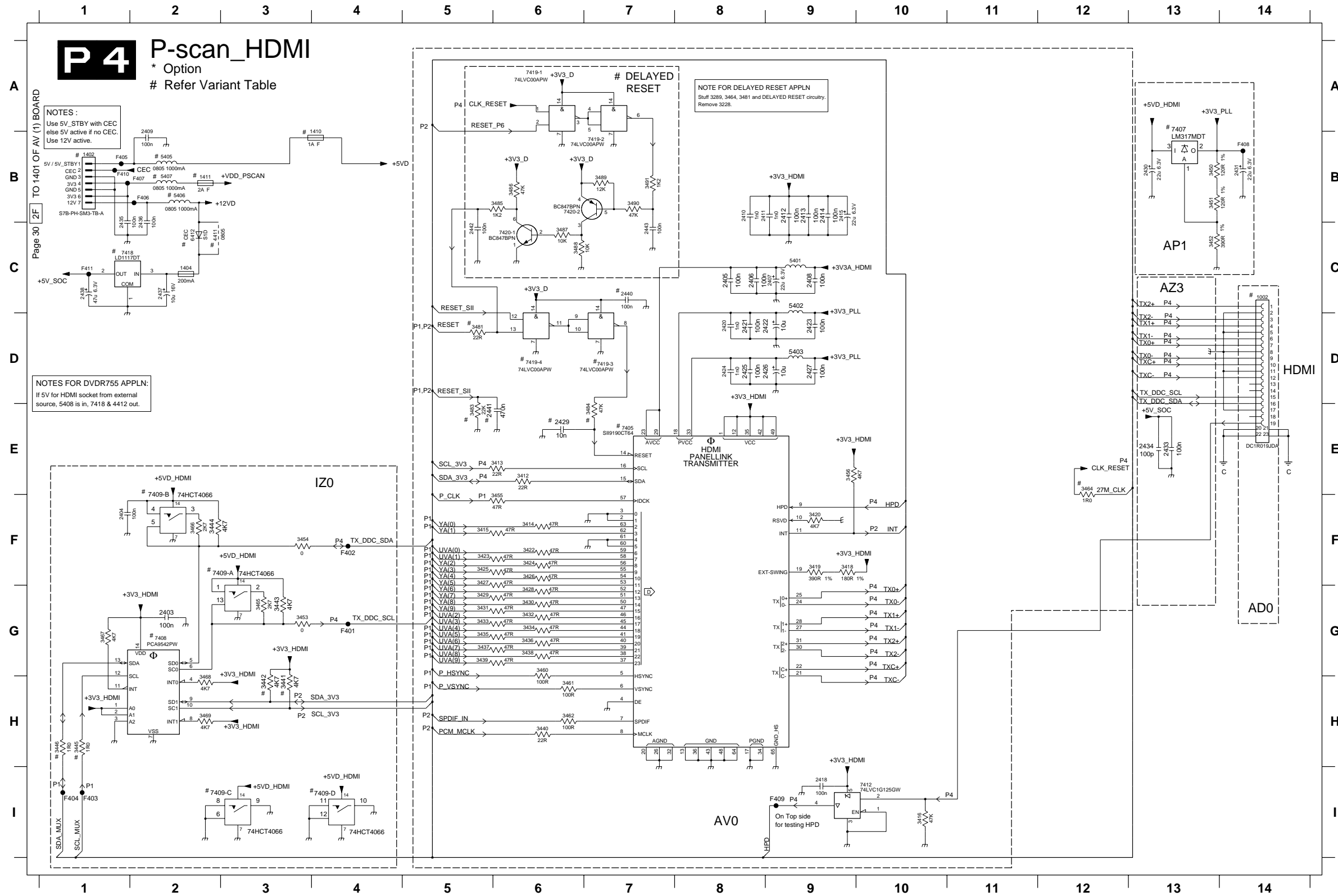
The first digit of a component indicates the component type.

1xxx : Connector 3xxx : Resistor 5xxx : Coil 7xxx : IC, Transistor, FET

2xxx : Capacitor 4xxx : SMD jumper 6xxx : Diode 9xxx : Wire jumper

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

PSCAN BOARD (4/4)

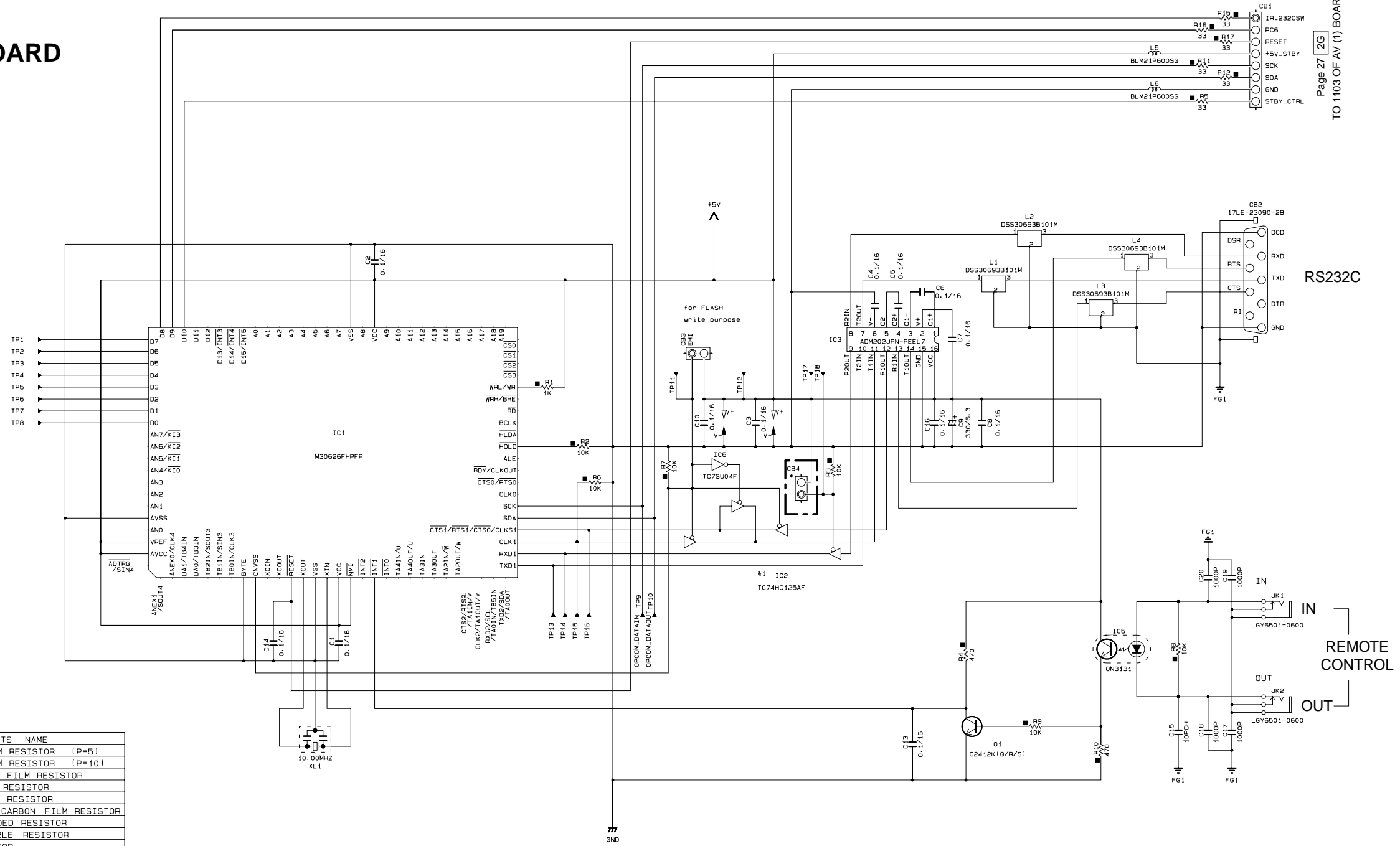


- 1002 C14
- 1402 B1
- 1404 C2
- 1410 B4
- 1411 B2
- 2403 G2
- 2404 F1
- 2405 C8
- 2406 C8
- 2407 C9
- 2408 C9
- 2409 B2
- 2410 B8
- 2411 B8
- 2412 B9
- 2413 B9
- 2414 B9
- 2415 B9
- 2418 I9
- 2420 D8
- 2421 D8
- 2422 D9
- 2423 D9
- 2424 D8
- 2425 D8
- 2426 D9
- 2427 D9
- 2429 E6
- 2430 B13
- 2431 B14
- 2433 E13
- 2434 E13
- 2435 B1
- 2436 B2
- 2437 C2
- 2438 C1
- 2440 C7
- 2441 E5
- 2442 C5
- 2443 C7
- 2444 H1
- 3413 E6
- 3414 F6
- 3415 F5
- 3416 I10
- 3418 F9
- 3419 F9
- 3420 F9
- 3422 F6
- 3423 F5
- 3424 F6
- 3425 F5
- 3426 F6
- 3427 F5
- 3428 G6
- 3429 G5
- 3430 G6
- 3431 G5
- 3432 G6
- 3433 G5
- 3434 G6
- 3435 G5
- 3436 G6
- 3437 G5
- 3438 G6
- 3439 G5
- 3440 H6
- 3441 H3
- 3442 H3
- 3443 G3
- 3444 F2
- 3445 H1
- 3446 H1
- 3450 B13
- 3451 B13
- 3452 C13
- 3453 G3
- 3454 F4
- 3455 F6
- 3456 E9
- 3460 G6
- 3461 H6
- 3462 H6
- 3464 E12
- 3465 G3
- 3466 F2
- 3467 G1
- 3468 H2
- 3469 H2
- 3478 D3
- 3481 D5
- 3483 E5
- 3484 E7
- 3485 B6
- 3486 B6
- 3487 C6
- 3488 C6
- 3489 B7
- 3490 B7
- 3491 B7
- 4411 C2
- 5401 C9
- 5402 C9
- 5403 D9
- 5405 B2
- 5406 B2
- 5407 B2
- 5408 D1
- 6412 C2
- 7405 E7
- 7407 A13
- 7408 G2
- 7409-A F2
- 7409-B F2
- 7409-C I2
- 7409-D I4
- 7412 I10
- 7418 C1
- 7419-1 A6
- 7419-2 B7
- 7419-3 D7
- 7419-4 D6
- 7420-1 C6
- 7420-2 B6
- F401 G4
- F402 F4
- F403 I1
- F404 I1
- F405 B1
- F406 B2
- F407 B2
- F408 B14
- F409 I9
- F410 B1
- F411 C1

* 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 REPLACEMENT PARTS WILL BE AVAILABLE)

RS232C BOARD



Page 27 2G
TO 1103 OF AV (1) BOARD

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
☑	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
⊞	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊕	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊙	CERAMIC TUBULAR CAPACITOR
⊚	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
⓪	MICA CAPACITOR
Ⓢ	POLYPROPYLENE FILM CAPACITOR
Ⓣ	SEMICONDUCTIVE CERAMIC CAPACITOR
Ⓥ	POLYPHENYLENE SULFIDE FILM CAPACITOR

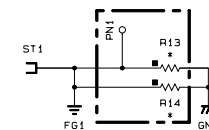
Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
△1	IC2	TC74HC125AF HD74HC125FP

The following parts are not mounted.
CB4 : for FLASH write purpose
R13-R14-PN1 : for countermeasure of EMC

CB3-CB4 setting

Mode	CB3	CB4
Normally	open	open
Write FLASH through CB2	short	open
Write FLASH directly (use TP13, 14, 15, 16)	short	short

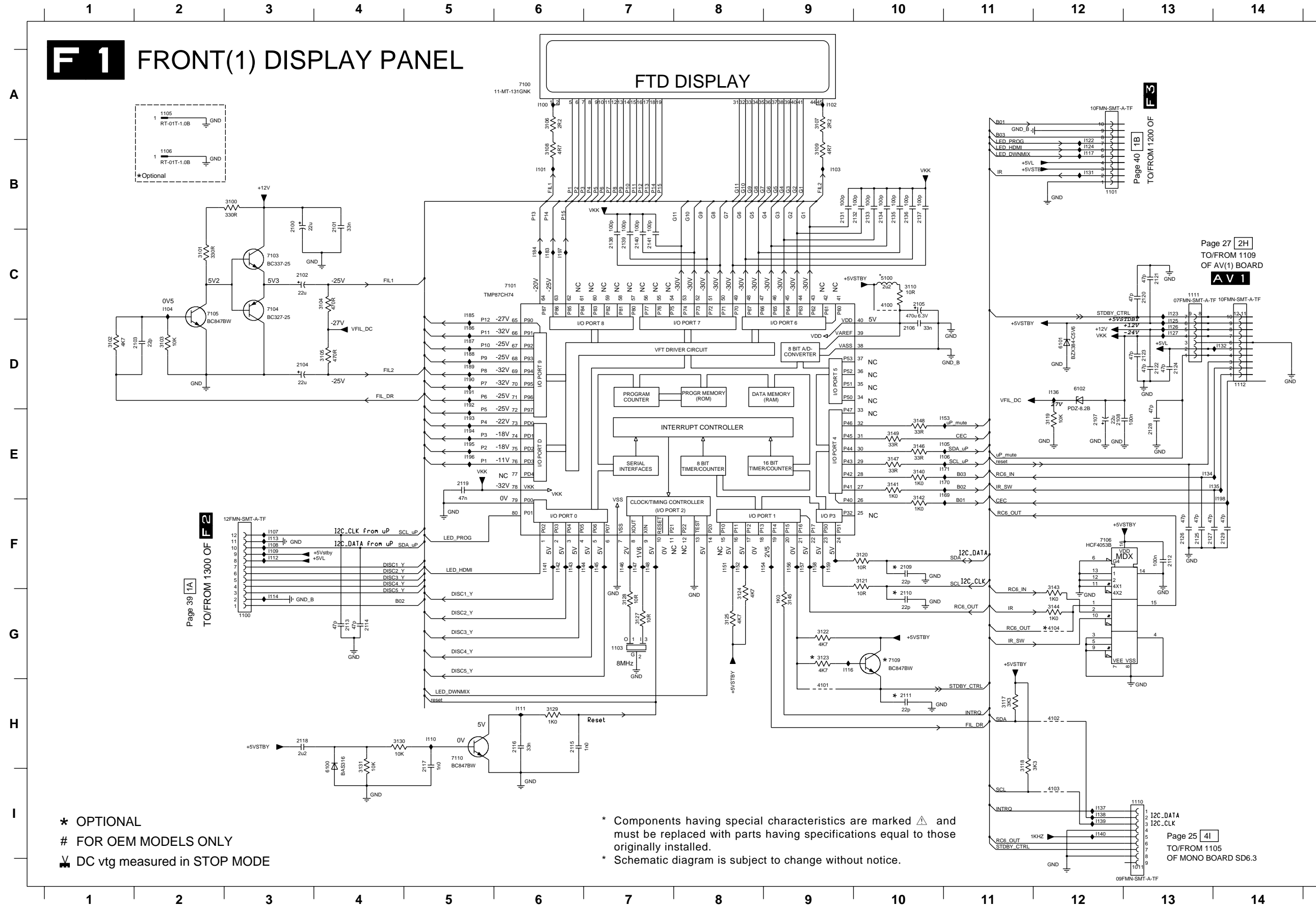


* Components having special characteristics are marked △ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

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

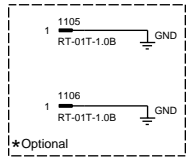
The first digit of a component indicates the component type.

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



F1 FRONT(1) DISPLAY PANEL

FTD DISPLAY



Page 39 1A TO/FROM 1300 OF F2

Page 40 1B TO/FROM 1200 OF F3

Page 27 2H TO/FROM 1109 OF AV(1) BOARD AV1

Page 25 4I TO/FROM 1105 OF MONO BOARD SD6.3

- * OPTIONAL
FOR OEM MODELS ONLY
DC vtg measured in STOP MODE

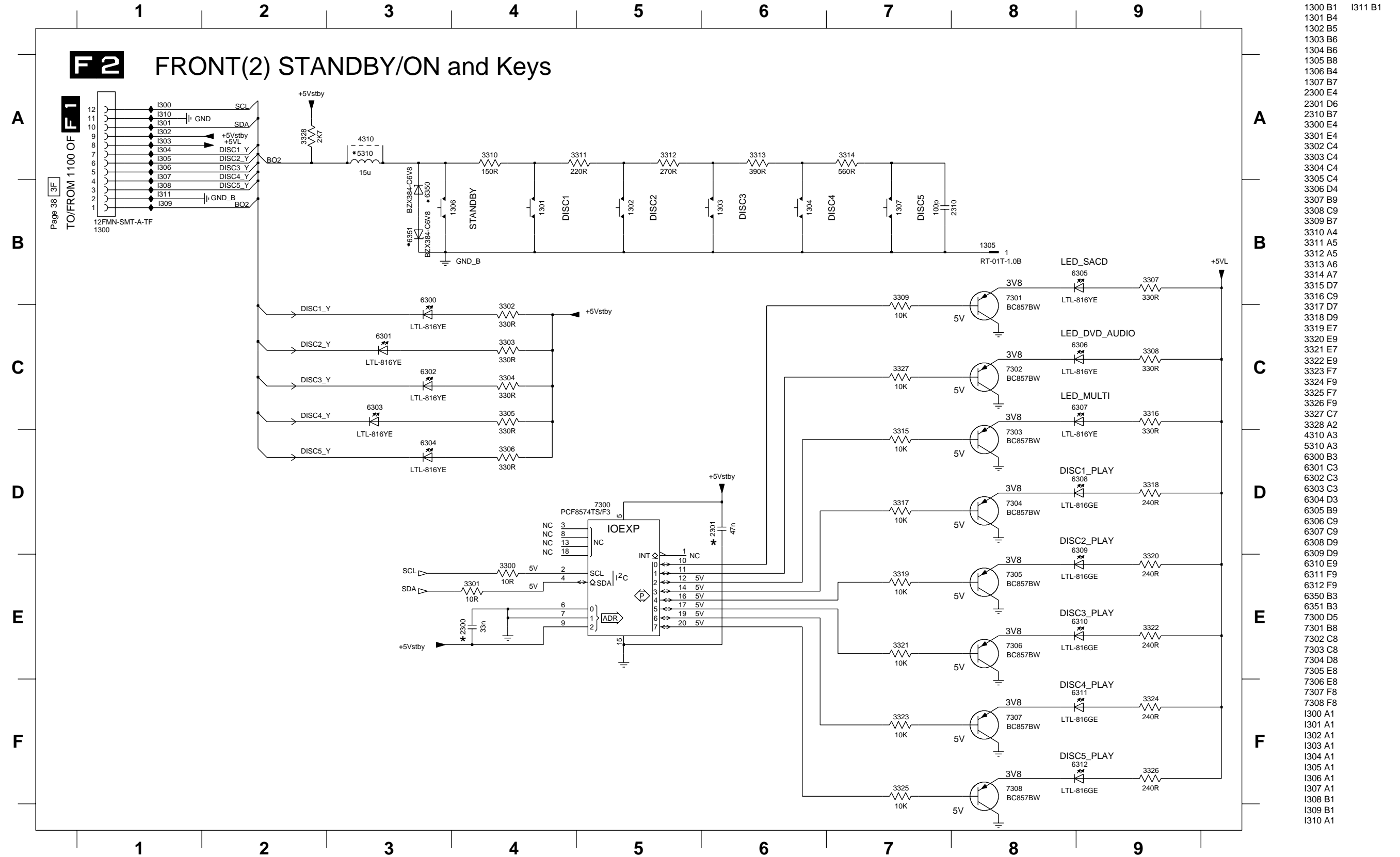
- * Components having special characteristics are marked with a triangle and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

Table of component callouts including part numbers and designations such as 1100 G3, 1101 B12, 1103 G7, etc.

SCHEMATIC DIAGRAM
FOR INFORMATION ONLY (NO REPLACEMENT 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



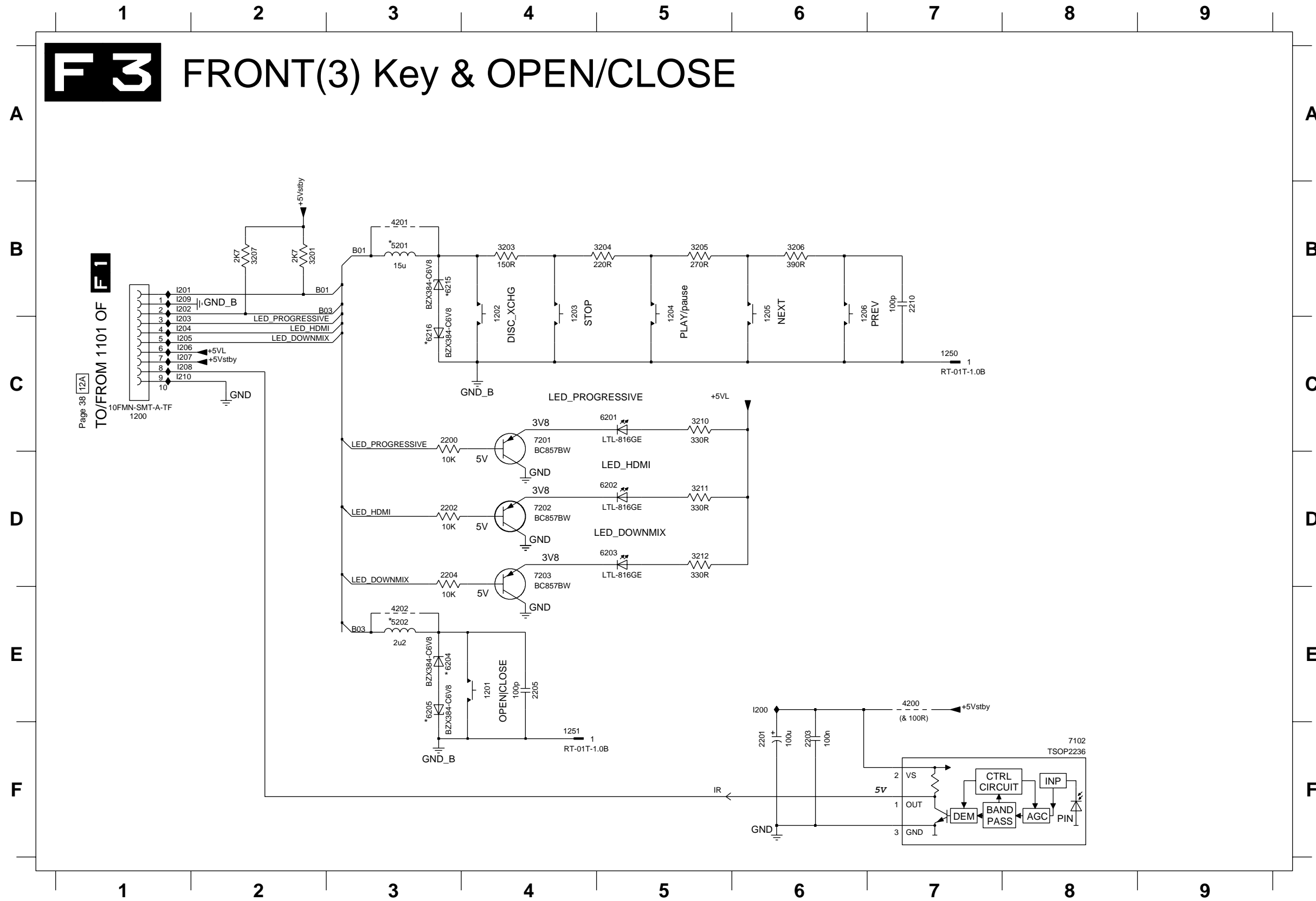
* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
 * Schematic diagram is subject to change without notice.

■ SCHEMATIC DIAGRAM
FOR INFORMATION ONLY (NO REPLACEMENT 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

F3 FRONT(3) Key & OPEN/CLOSE



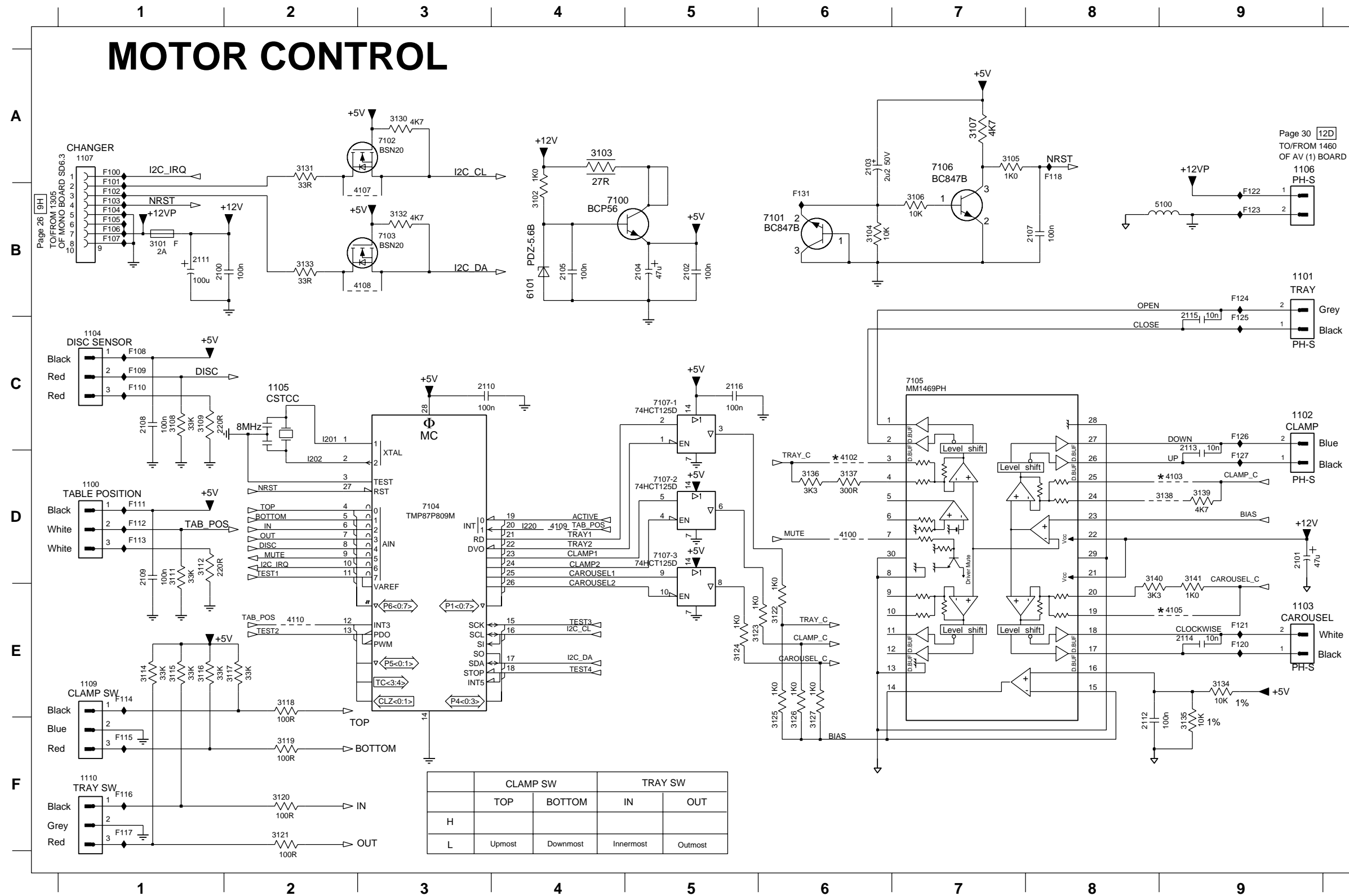
- 1200 C1
- 1201 E4
- 1202 B4
- 1203 B4
- 1204 B5
- 1205 B6
- 1206 B6
- 1250 C7
- 1251 F4
- 2200 C3
- 2201 F6
- 2202 D3
- 2203 F6
- 2204 D3
- 2205 E4
- 2210 B7
- 3201 B2
- 3203 B4
- 3204 B5
- 3205 B5
- 3206 B6
- 3207 B2
- 3210 C5
- 3211 D5
- 3212 D5
- 4200 E7
- 4201 B3
- 4202 E3
- 5201 B3
- 5202 E3
- 6201 C5
- 6202 D5
- 6203 D5
- 6204 E3
- 6205 E3
- 6215 B3
- 6216 C3
- 7102 F8
- 7201 C4
- 7203 D4
- I200 E6
- I201 B1
- I202 B1
- I203 C1
- I204 C1
- I205 C1
- I206 C1
- I207 C1
- I208 C1
- I209 B1
- I210 C1

* 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 REPLACEMENT 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



- 1100 D1
- 1101 B9
- 1102 C9
- 1103 E9
- 1104 C1
- 1105 C2
- 1106 A9
- 1107 A1
- 1109 E1
- 1110 F1
- 2100 B1
- 2101 D9
- 2102 B5
- 2103 A6
- 2104 B5
- 2105 B4
- 2107 B8
- 2108 C1
- 2109 D1
- 2110 C3
- 2111 B1
- 2112 F8
- 2113 C9
- 2114 E9
- 2115 C9
- 2116 C5
- 3101 B1
- 3102 B4
- 3103 A4
- 3104 B6
- 3105 A7
- 3106 B7
- 3107 A7
- 3108 C1
- 3109 C1
- 3111 D1
- 3112 D1
- 3114 E1
- 3115 E1
- 3116 E1
- 3117 E2
- 3118 E2
- 3119 F2
- 3120 F2
- 3121 F2
- 3122 E6
- 3123 E5
- 3124 E5
- 3125 F6
- 3126 F6
- 3127 F6
- 3130 A3
- 3131 A2
- 3132 B3
- 3133 B2
- 3134 E9
- 3135 F9
- 3136 D6
- 3137 D6
- 3139 D9
- 3140 D8
- 3141 D9
- 4100 D6
- 4102 D6
- 4103 D9
- 4104 D9
- 4105 E9
- 4107 B3
- 4108 B3
- 4109 D4
- 4110 E2
- 5100 B9
- 6101 B4
- 7100 B4
- 7101 B6
- 7102 A3
- 7103 B3
- 7104 D3
- 7105 C7
- 7106 A7
- 7107-1 C5
- 7107-2 D5
- 7107-3 D5
- F100 A1
- F101 A1
- F102 B1
- F103 B1
- F104 B1
- F105 B1
- F106 B1
- F107 B1
- F108 C1
- F109 C1
- F110 C1
- F111 A1
- F112 B1
- F113 B1
- F114 E1
- F115 F1
- F116 F1
- F117 F1
- F118 A8
- F120 E9
- F121 E9
- F122 B9
- F123 B9
- F124 B9
- F125 C9
- F126 C9
- F127 D9
- F128 D9
- F129 D9
- F130 B6
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- F132 B6
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TRAY1	TRAY2	TRAY
H	L	CLOSE
L	L	OPEN
X	H	STOP

CLAMP1	CLAMP2	CLAMP
H	L	UP
L	L	DOWN
X	H	STOP

CAROUSEL1	CAROUSEL2	CAROUSEL
H	L	CW
L	L	CCW
X	H	STOP

	CLAMP SW		TRAY SW	
	TOP	BOTTOM	IN	OUT
H				
L	Upmost	Downmost	Innermost	Outmost

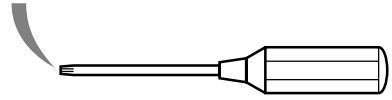
* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

EXPLODED VIEW

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

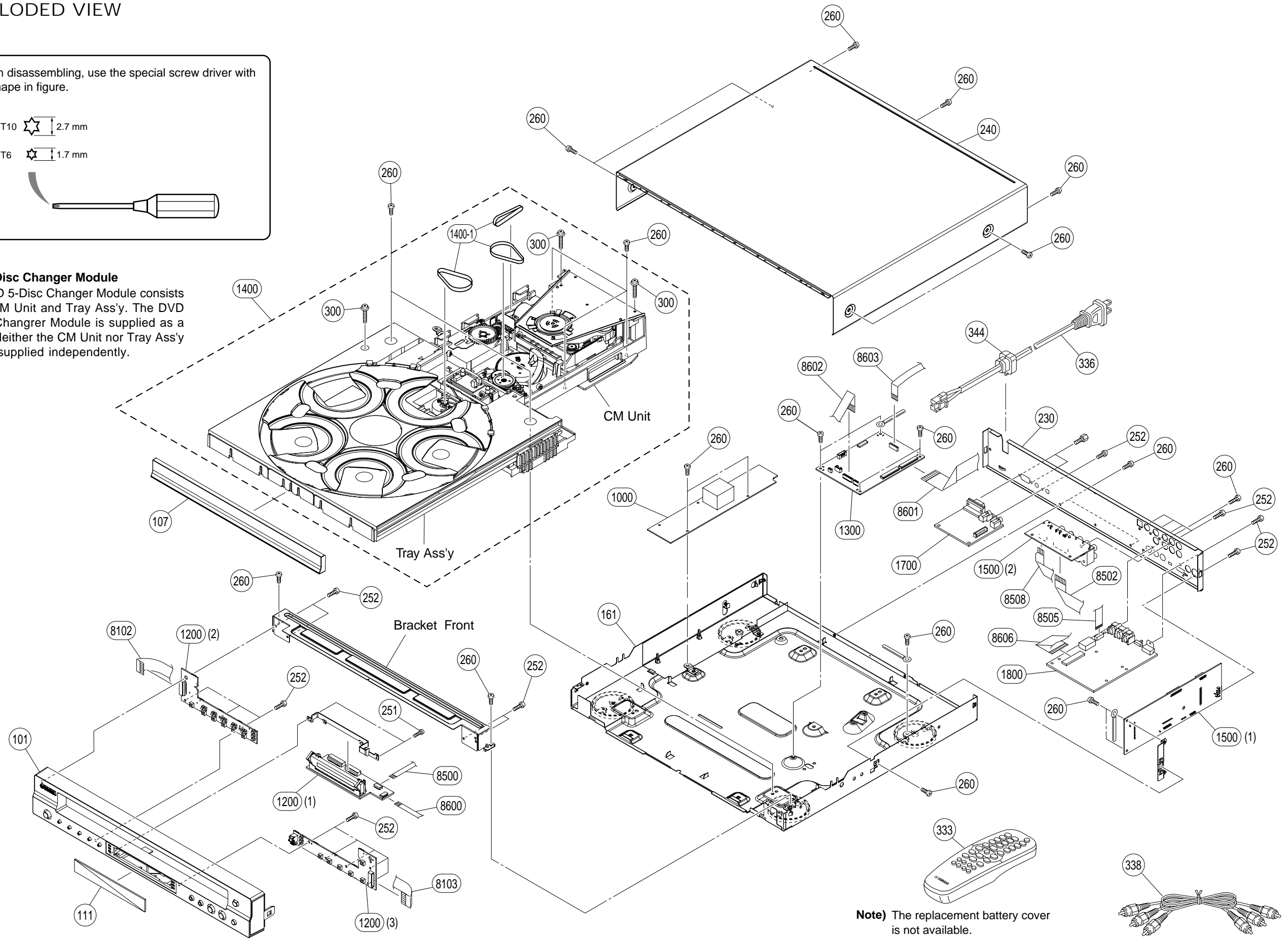
T10 2.7 mm

T6 1.7 mm

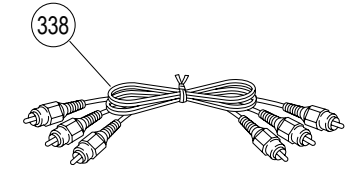


DVD 5-Disc Changer Module

The DVD 5-Disc Changer Module consists of the CM Unit and Tray Ass'y. The DVD 5-Disc Changer Module is supplied as a whole. Neither the CM Unit nor Tray Ass'y can be supplied independently.



Note) The replacement battery cover is not available.



MECHANICAL PARTS

Ref. No.	PART NO.	Description	Remarks	Markets
101	AAX69190	FRONT PANEL ASS'Y	BL	3141 079 01361
* 107	AAX64700	TRAY COVER	BL	3139 244 05021
* 111	AAX64660	WINDOW		3139 244 05032
161	AAX69180	FRAME ASS'Y		3141 079 32181
* 230	AAX64720	REAR PANEL		3139 241 22083
240	AAX59320	TOP COVER	BL	3139 241 22041
251	AAX59360	PAN HEAD TORX S-TIGHT SCREW	2x8 MFZN2BL	2511 076 50003
252	AAX53520	PAN HEAD TORX P-TIGHT SCREW	3x8 MFZN2BL	2511 076 50012
260	AAX23640	PAN HEAD TORX S-TIGHT SCREW	3x6 MFZN2BL	2511 077 00039
300	EX602280	PW HEAD P-TIGHT SCREW	3x12-10 MFZN2BL	3139 240 40011
△ 336	AAX47750	POWER CABLE	1.8m	2422 070 98235
344	AAX53540	BUSH	450H259010	3139 114 26671
△ 1000	AAX59560	POWER SUPPLY UNIT	03-3A	3139 248 72081
* 1200	AAX64650	P.C.B. ASS'Y	FRONT	3139 248 83111
* 1300	AAX64640	P.C.B. ASS'Y	MONO	3139 248 83323
1400	AAX59140	DVD 5-DISC CHANGER MODULE	SD5.5	3139 248 71991
1400-1	VQ776900	BELT	V	
* 1500	AAX64620	P.C.B. ASS'Y	AV	3139 248 83091
* 1700	WC020600	P.C.B. ASS'Y	RS232C	
* 1800	AAX64630	P.C.B. ASS'Y	PSCAN	3139 248 82961
8102	AAX59280	FLEXIBLE FLAT CABLE	12P 280mm P=1mm	3139 241 00771
8103	AAX59260	FLEXIBLE FLAT CABLE	10P 340mm P=1mm	3139 241 00651
* 8500	AAX64690	FLEXIBLE FLAT CABLE	10P 560mm P=1mm	3139 241 00871
8502	AAX59220	FLEXIBLE FLAT CABLE	22P 180mm P=1mm	3139 110 35631
* 8505	AAX64670	FLEXIBLE FLAT CABLE	13P 220mm P=1mm	3139 111 02411
8508	AAX59300	FLEXIBLE FLAT CABLE	9P 180mm P=1mm	3139 241 00891
8600	AAX59240	FLEXIBLE FLAT CABLE	9P 340mm P=1mm	3139 111 03811
8601	AAX59250	FLEXIBLE FLAT CABLE	30P 180mm P=1mm	3139 241 00421
8602	AAX59270	FLEXIBLE FLAT CABLE	16P 280mm P=1mm	3139 241 00711
8603	AAX59230	FLEXIBLE FLAT CABLE	12P 180mm P=1mm	3139 111 02181
* 8606	AAX64680	FLEXIBLE FLAT CABLE	30P 220mm P=1mm	3139 111 04261
		ACCESSORIES		
333	AAX59550	REMOTE CONTROL	RC19237010/00	3139 238 07171
338	AAX23450	AUDIO/VIDEO CABLE BATTERY	YE/RD/WH 1.5m 1pc UM-3 2pcs	2422 076 00304

* New Parts

DVD-C950



DVD-C950
