

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

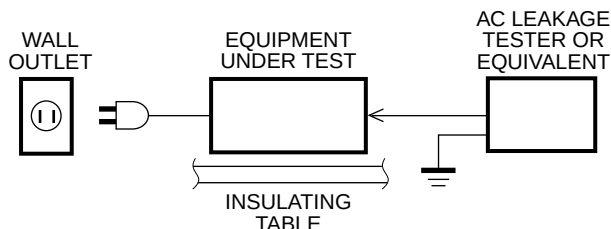
Components having special characteristics are marked  and must be replaced with parts having specifications equal to those originally installed.

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

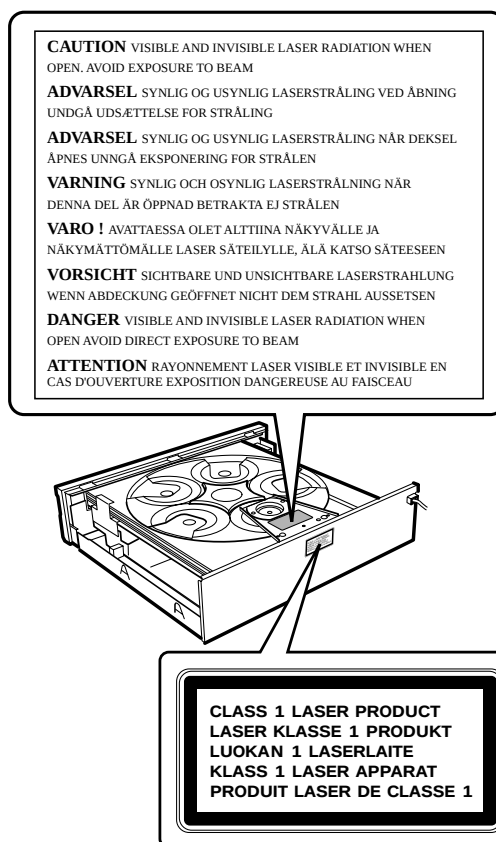
VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASER-SÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

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!

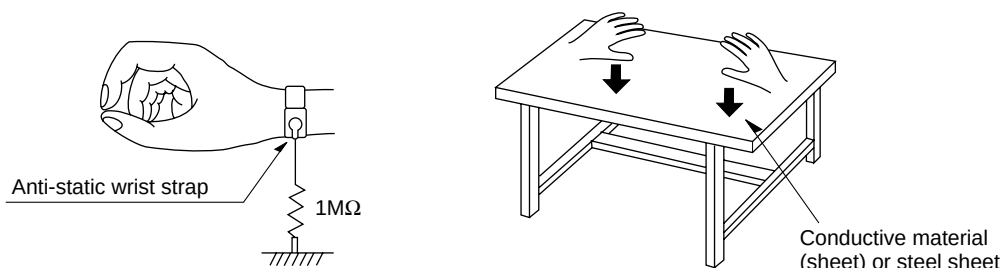
The DVD mechanism is very sensitive for dropping or giving shocks.

■ 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.

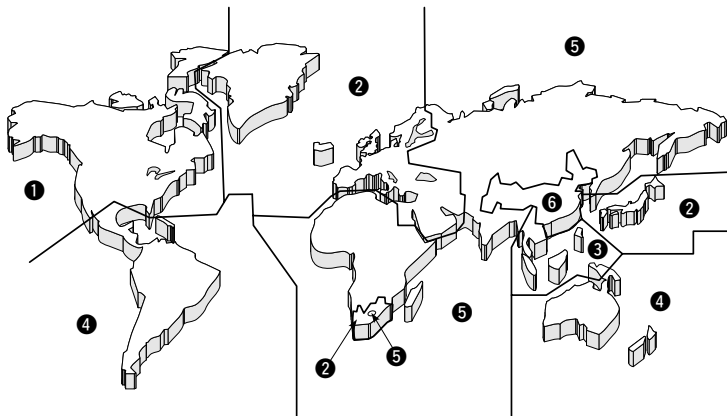
3. Handling Precautions for the Traverse Unit (Optical Pickup)

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

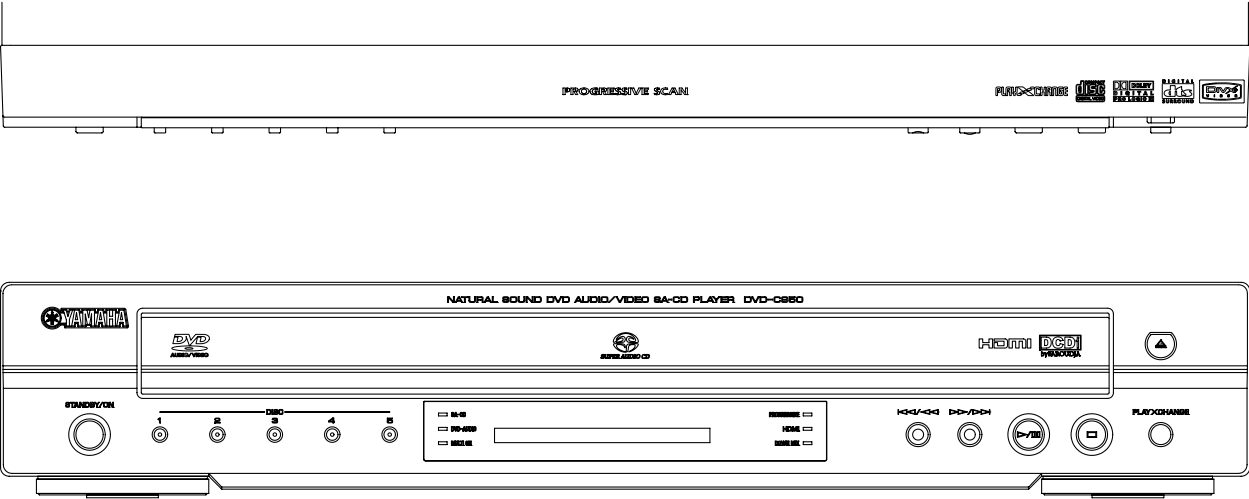
Locale Management Information : This DVD player is designed and manufactured to respond to the Locale Management Information that is recorded on a DVD disc. If the Locale number described on the DVD disc does not correspond to the Locale number of this DVD player, this DVD player cannot play this disc.

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.



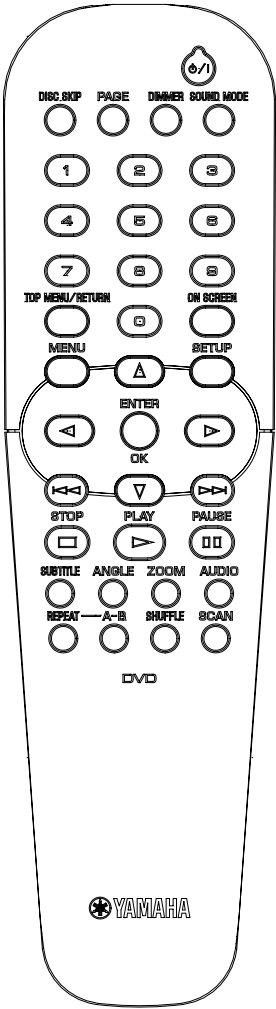
FRONT PANEL

DVD-C950 (U model)



REMOTE CONTROL PANEL

DVD-C950



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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“DivX”, “DivX Certified”, and associated logos are trademarks of DivXNetworks, Inc and are used under license.

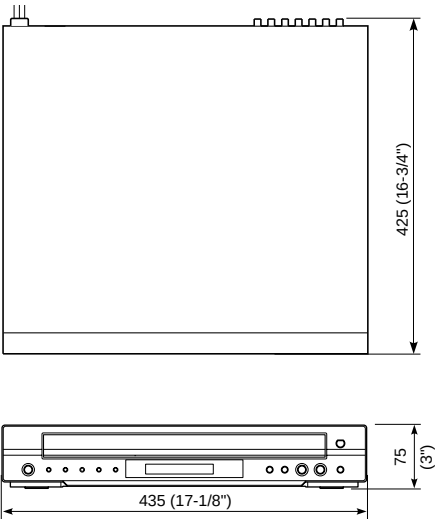


“DCDi” is a trademark of Faroudja, a division of Genesis Microchip, Inc.



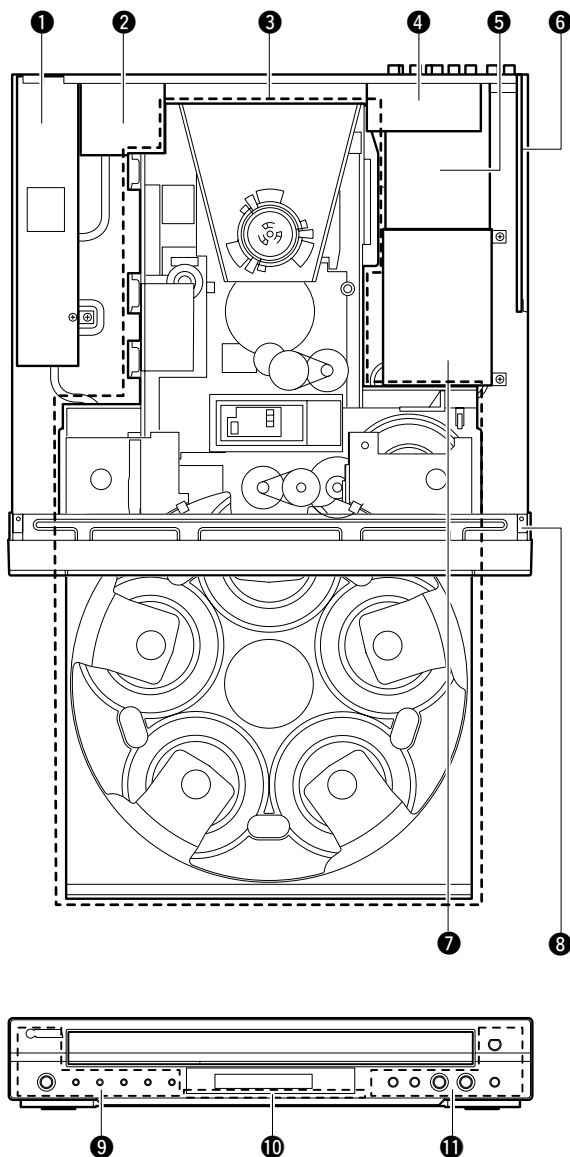
HDMI, the HDMI logo and High Definition Multimedia Interface are trademarks or registered trademark of HDMI Licensing LLC.

■ 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

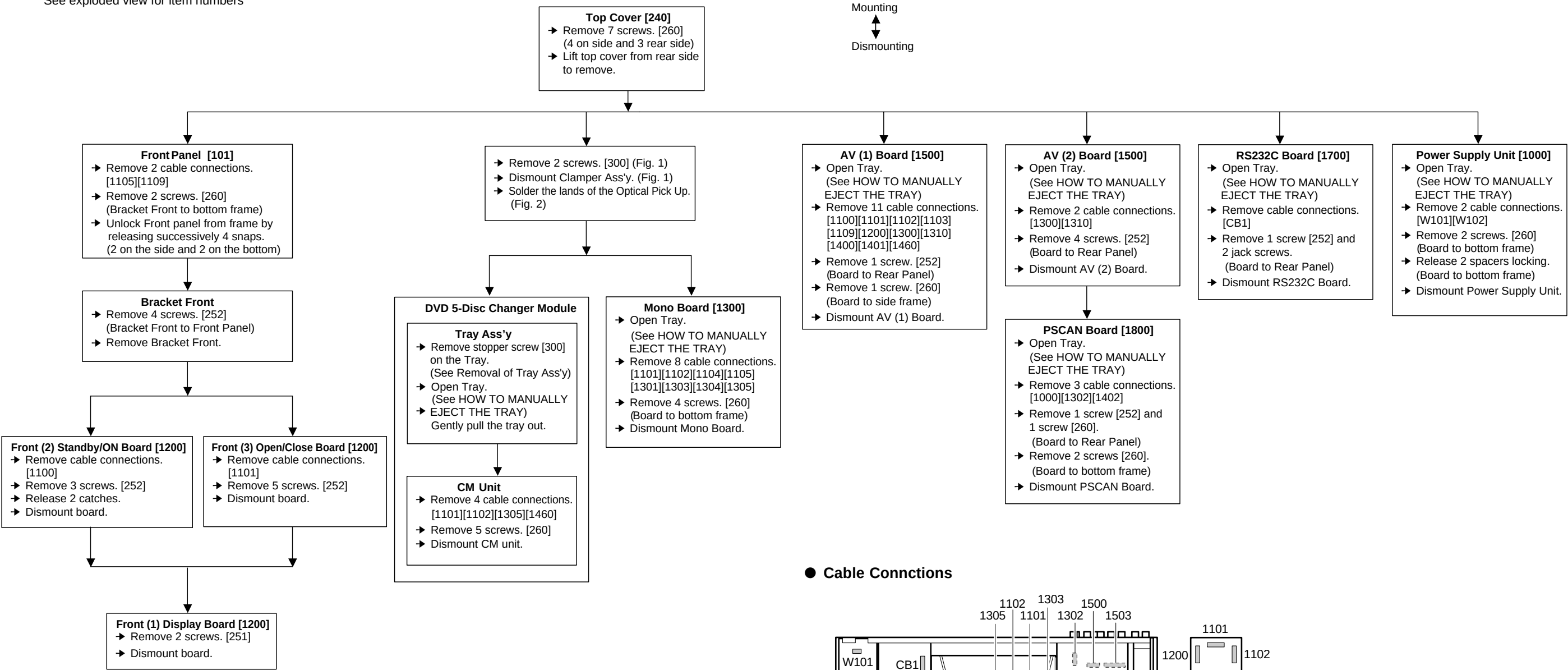
The power supply unit has to be replaced in case of failure.

3. PCB Assembly

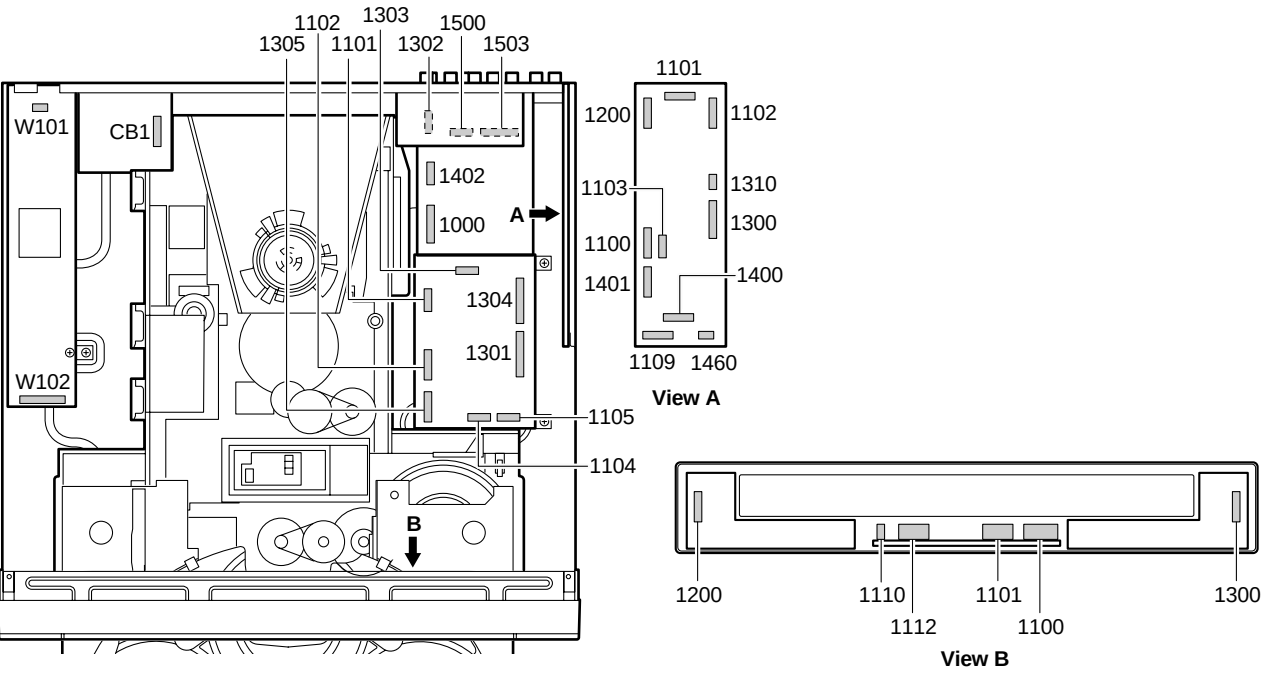
When a failure has occurred in the PCB assembly, replace each P.C.B.

■ DISASSEMBLY PROCEDURES

See exploded view for item numbers



● Cable Connctions



● 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.

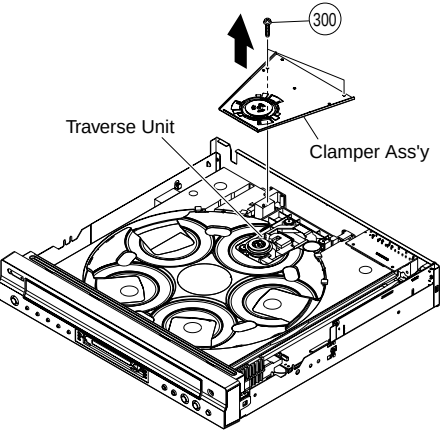


Fig. 1

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.

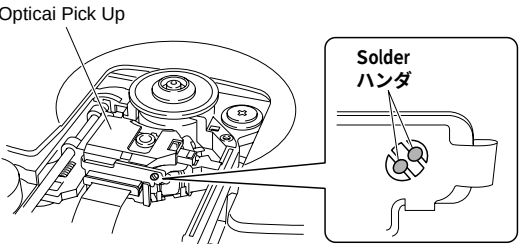
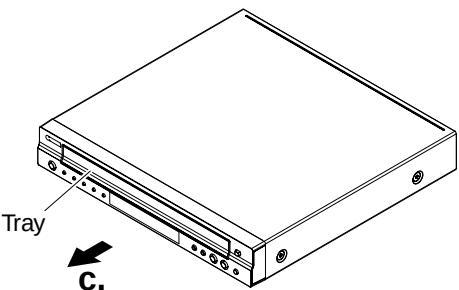


Fig. 2

● 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.



a.

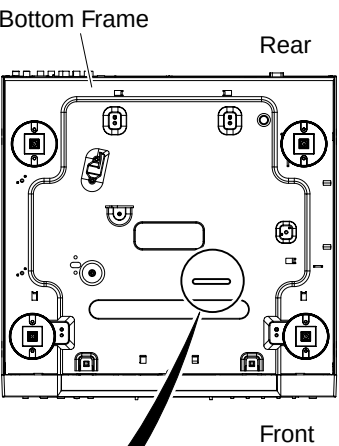
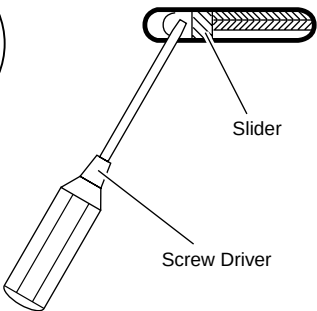
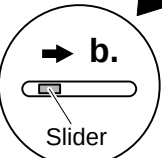


Fig. 3



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.

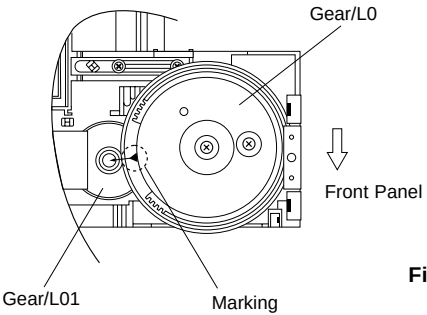


Fig. 5

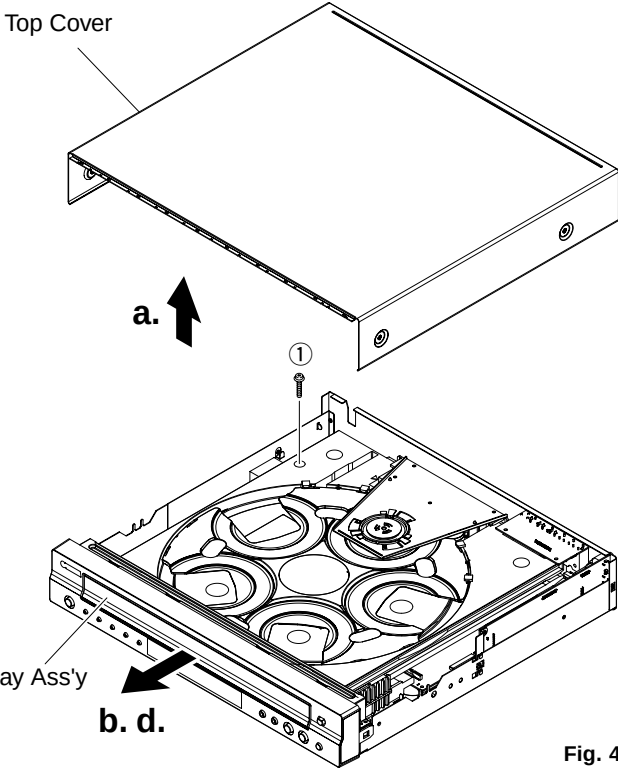


Fig. 4

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.

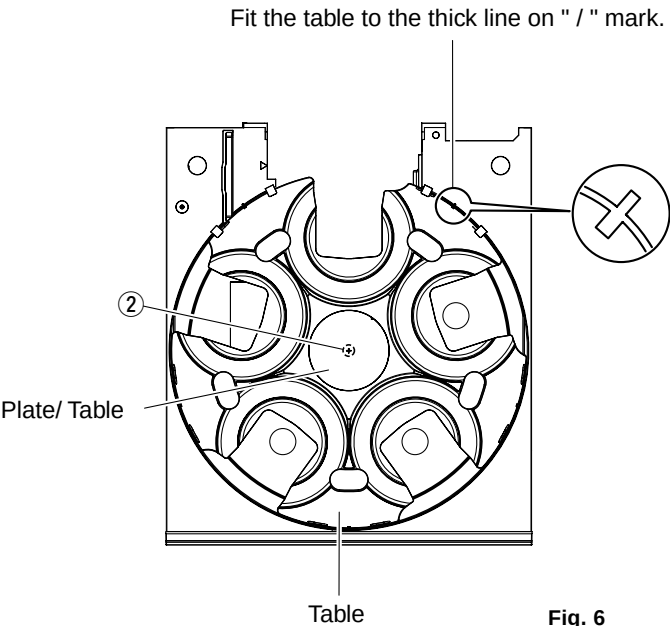


Fig. 6

IMPORTANT: Installation of Table.

Install the table according to the following procedure.

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

*Check that the Table is locked after installation.

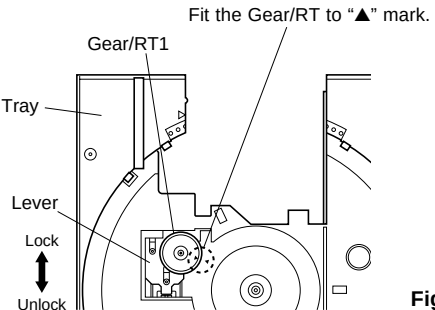
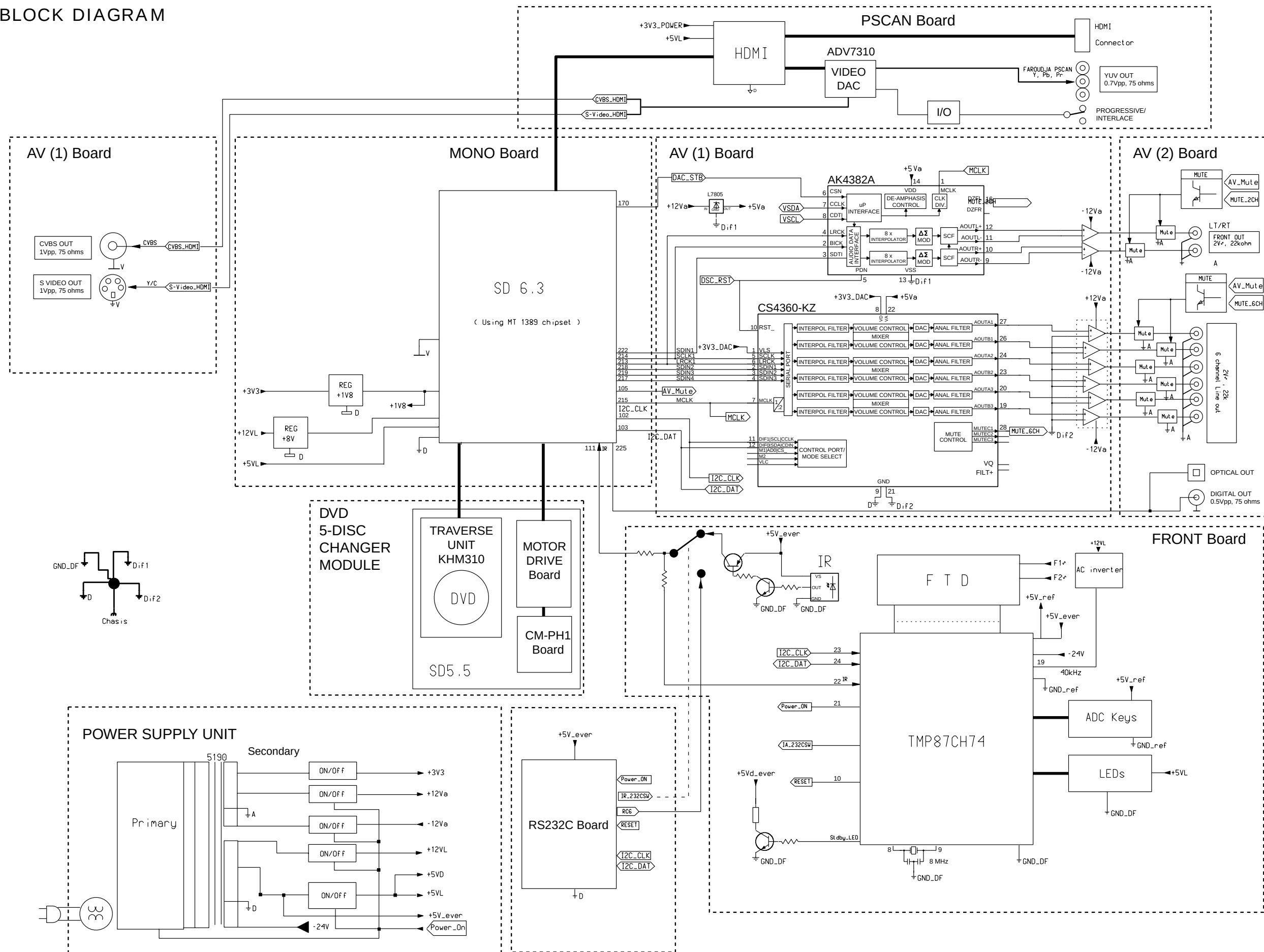
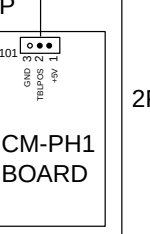
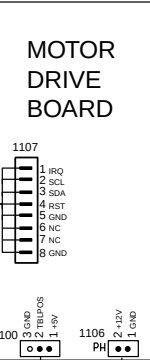
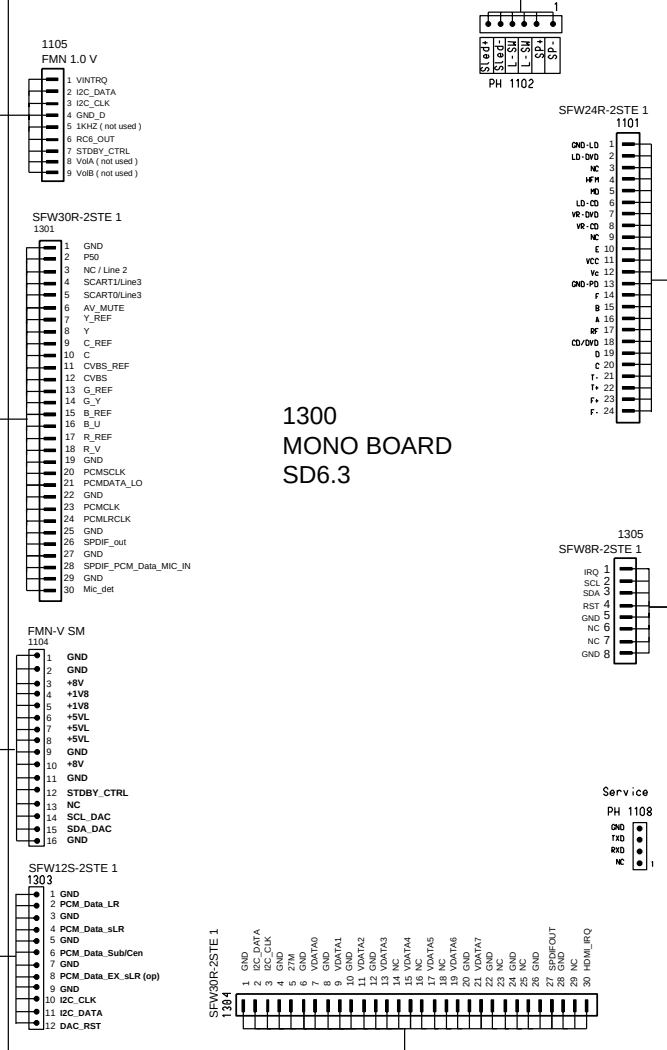
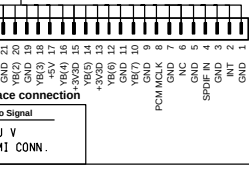
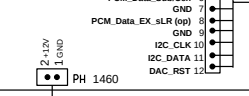
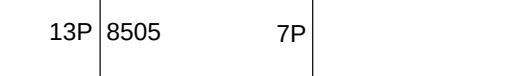
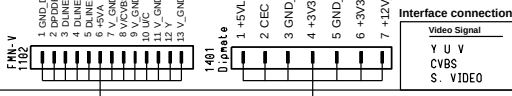
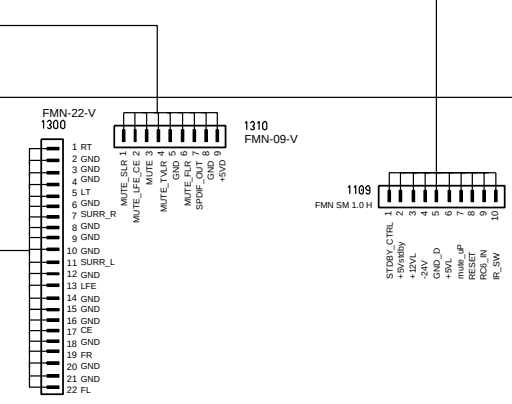
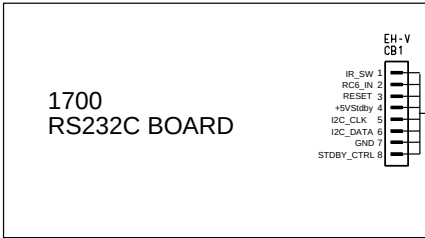
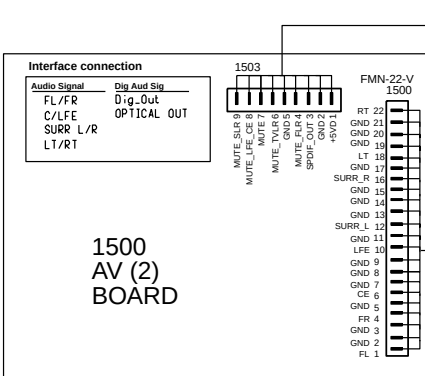
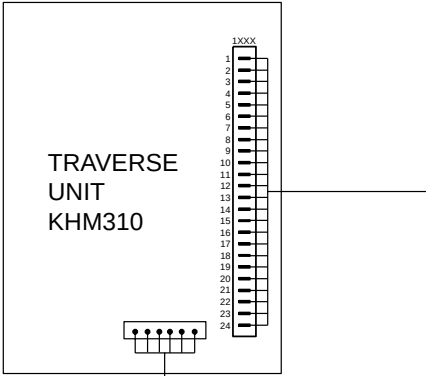
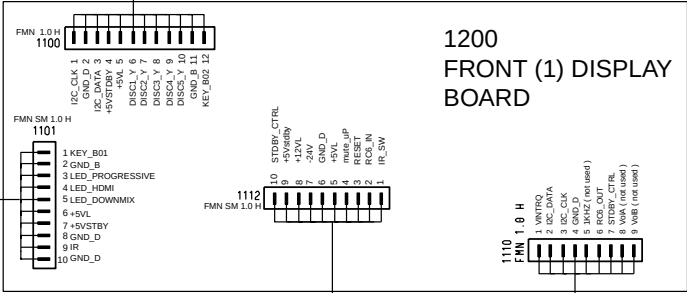
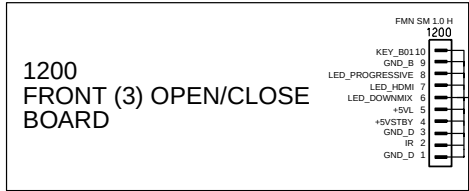


Fig. 7

BLOCK DIAGRAM

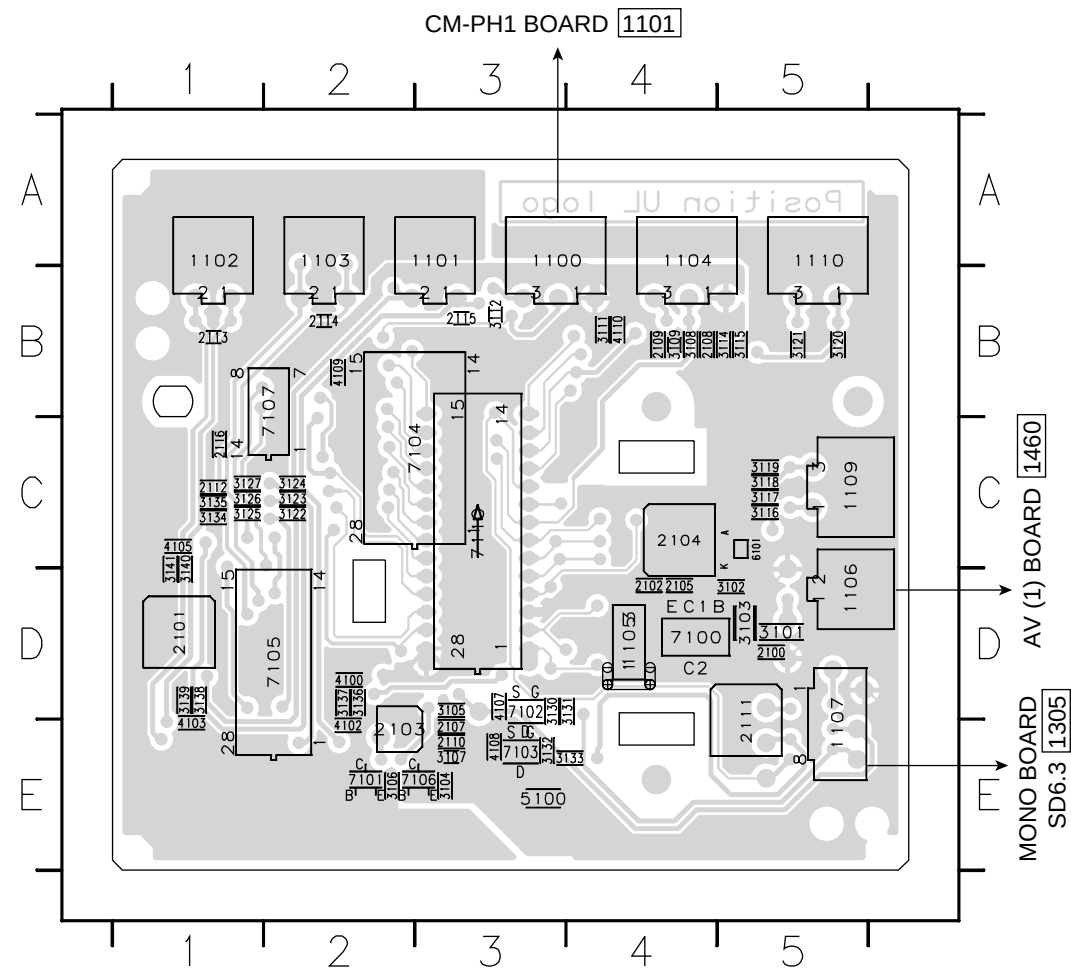


WIRING DIAGRAM

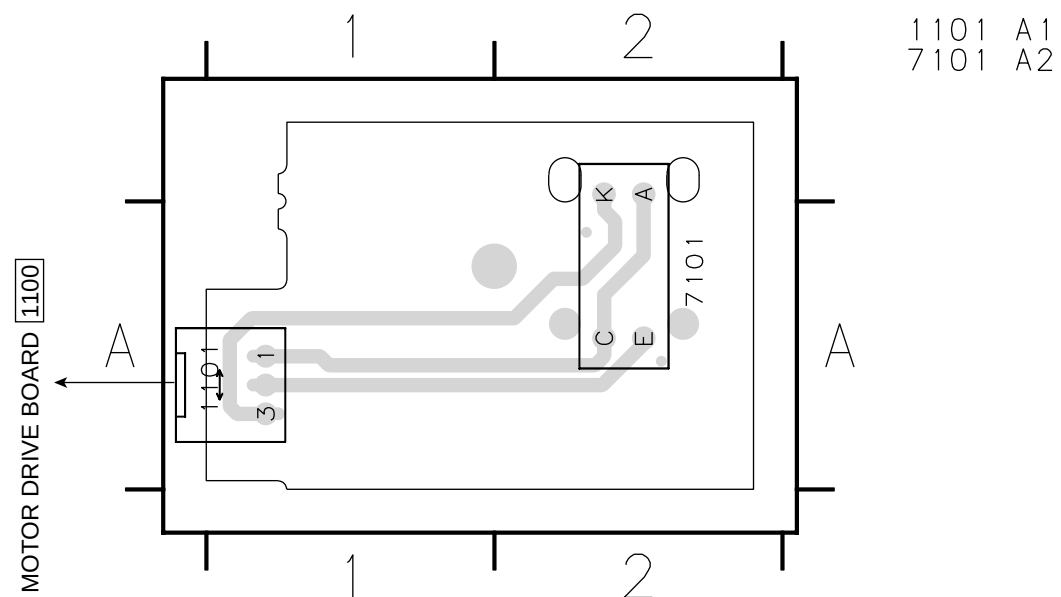


■ PRINTED CIRCUIT BOARD
FOR INFORMATION ONLY (NO REPLACEMENT PARTS WILL BE AVAILABLE)

MOTOR DRIVE Board Top View

[illegible]

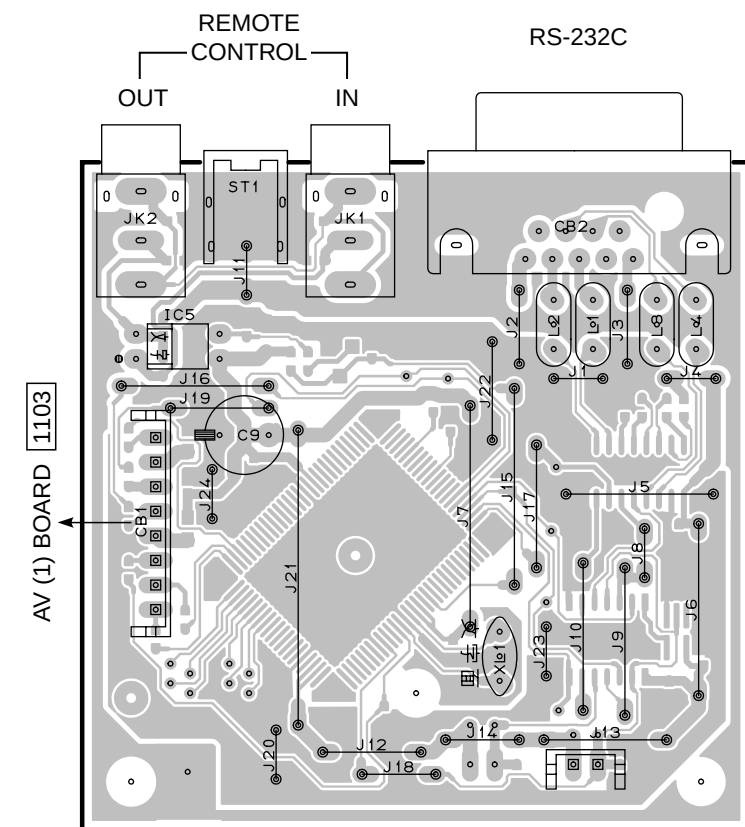
CM-PH1 Board Top View



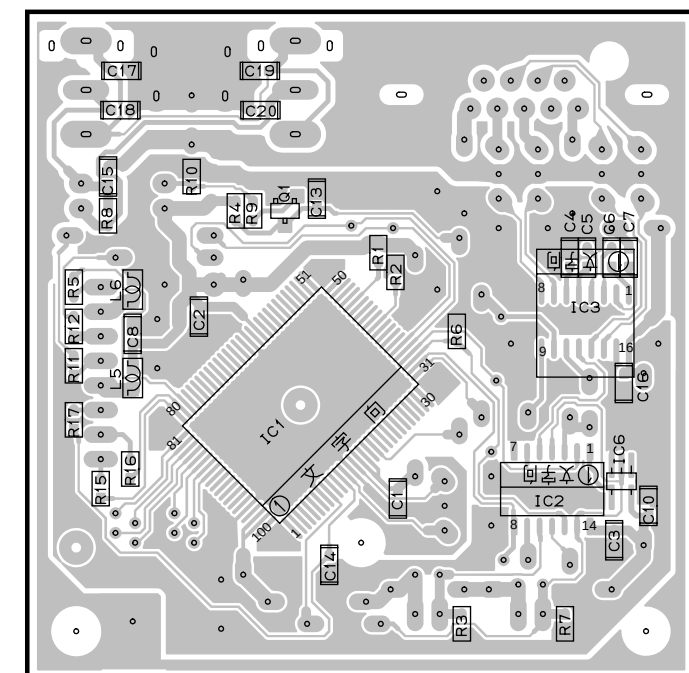
The first digit of a component indicates the component type.

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

RS232C Board Top View

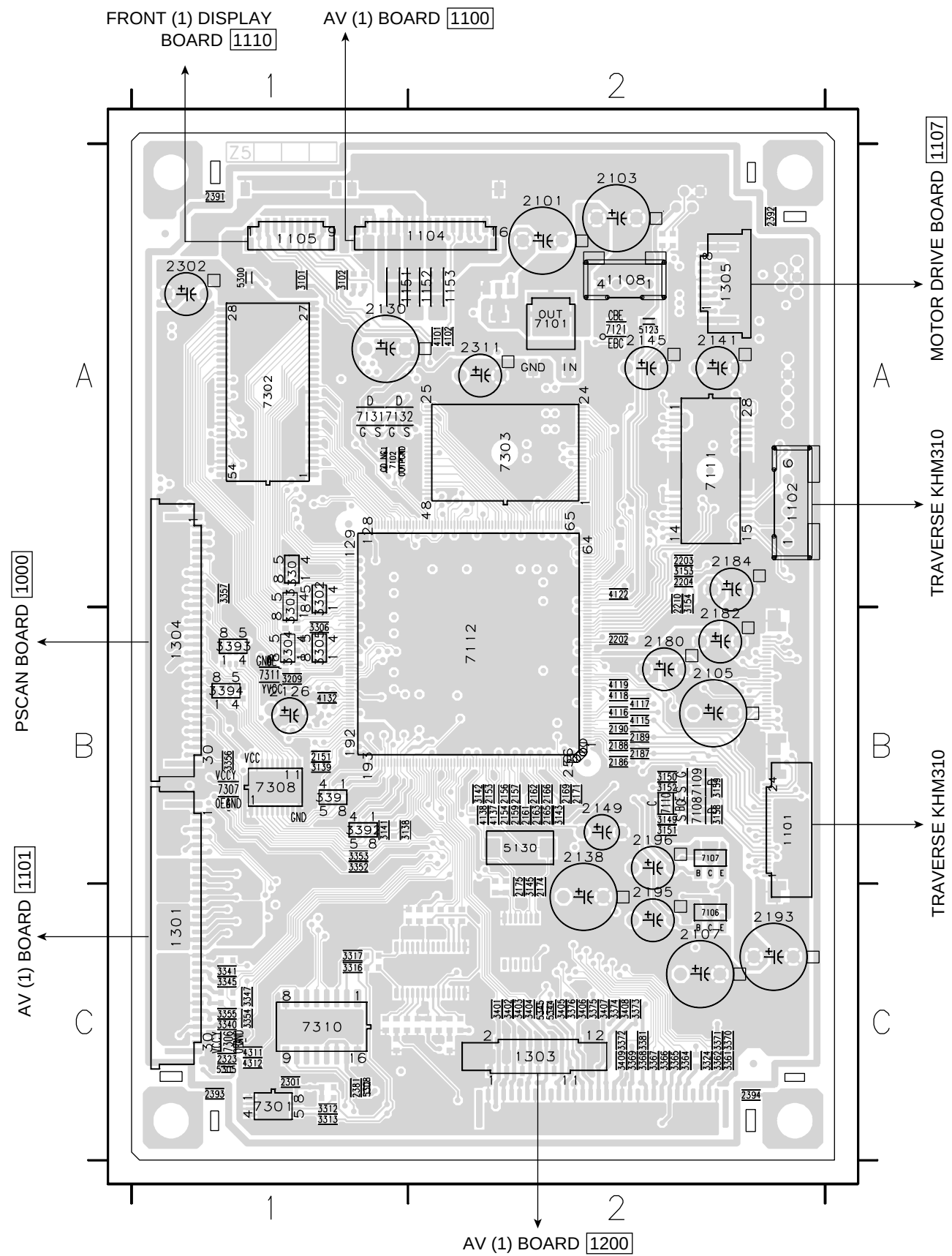


RS232C Board Bottom View



■ 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

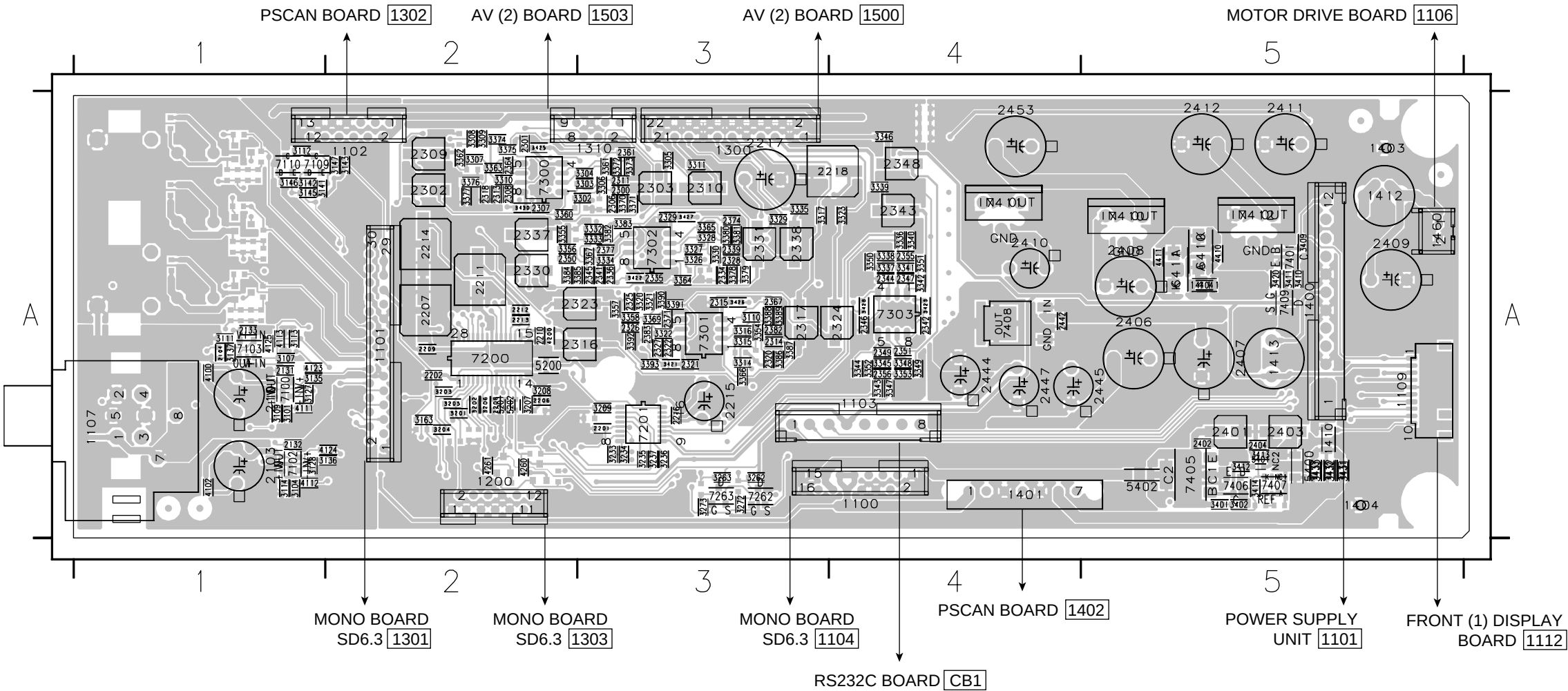
1101	B2	2320	C2	3364	C2	7306	C1
1102	A2	2323	C1	3365	C2	7307	B1
1104	A2	2381	C1	3366	C2	7308	B1
1105	A1	2391	A1	3367	C2	7310	C1
1108	A2	2392	A2	3368	C2	7311	B1
1151	A1	2393	C1	3369	C2		
1152	A2	2394	C2	3370	C2		
1153	A2	3101	A1	3371	C2		
1301	C1	3102	A1	3372	C2		
1302	C2	3103	A1	3373	C2		
1303	C2	3104	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	3340	C1	5303	C2		
2180	B2	3341	C1	5305	C1		
2182	B2	3342	C2	5308	C1		
2184	A2	3343	C2	5344	C2		
2186	B2	3344	C2	5345	C2		
2187	B2	3345	C1	7101	A2		
2188	B2	3346	C1	7102	A1		
2189	B2	3347	C1	7104	A2		
2190	B2	3348	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	3357	A1	7111	A2		
2204	A2	3361	C2	7112	B2		
2210	A2	3362	C2	7121	A2		
2301	C1			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)

The first digit of a component indicates the component type.

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

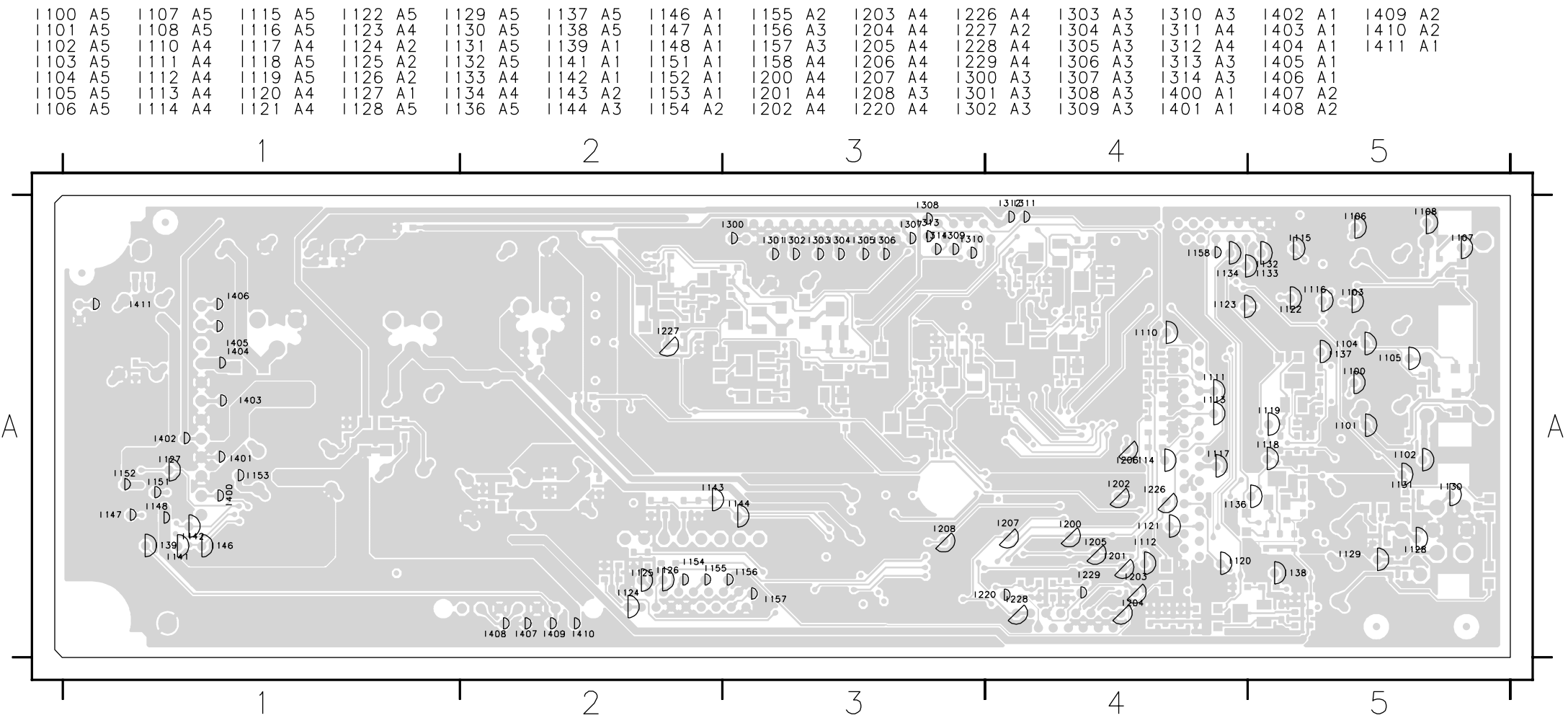
AV (1) Board Top View																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
100 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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					



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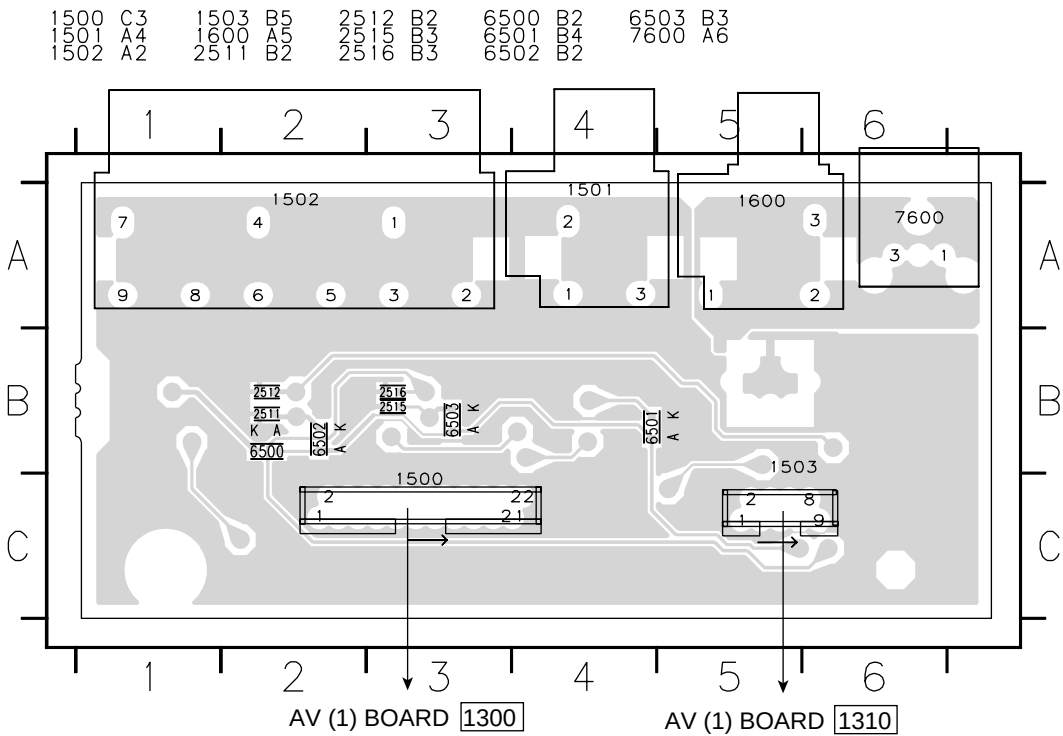
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2xxx : Capacitor 4xxx : SMD jumper 6xxx : Diode 9xxx : Wire jumper

AV (1) Board Testpoint View

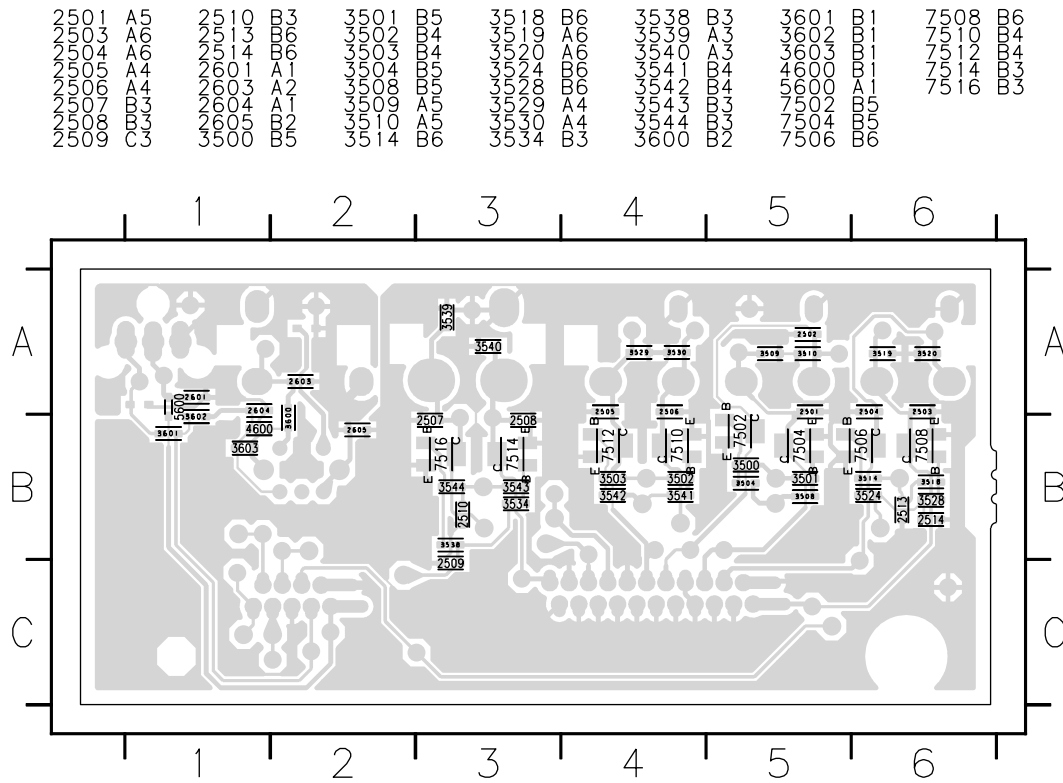


■ PRINTED CIRCUIT BOARD
FOR INFORMATION ONLY (NO REPLACEMENT PARTS WILL BE AVAILABLE)

AV (2) Board Top View



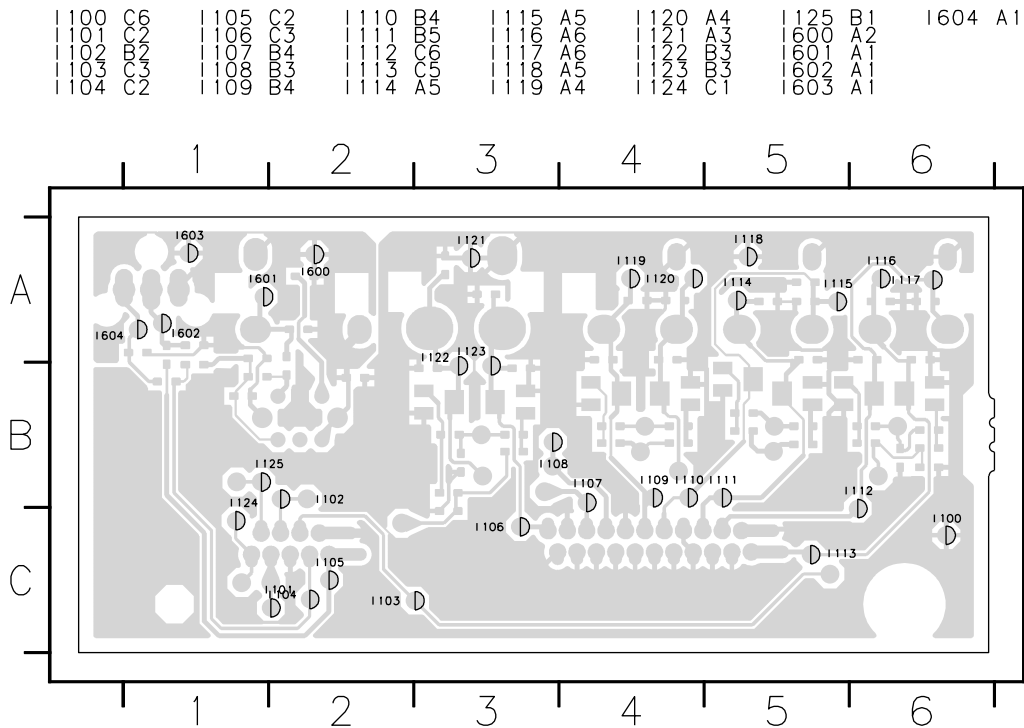
AV (2) Board Bottom View



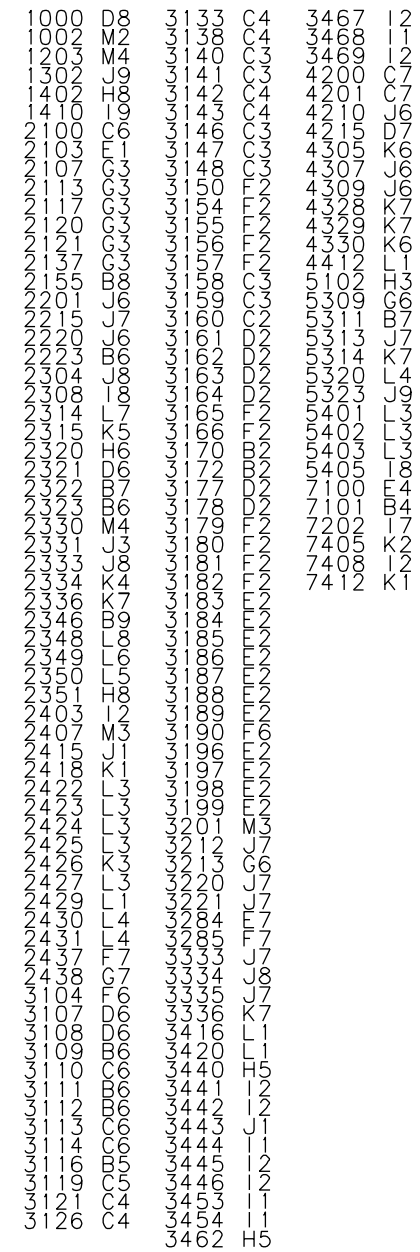
The first digit of a component indicates the component type.

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

AV (2) Board Testpoint View



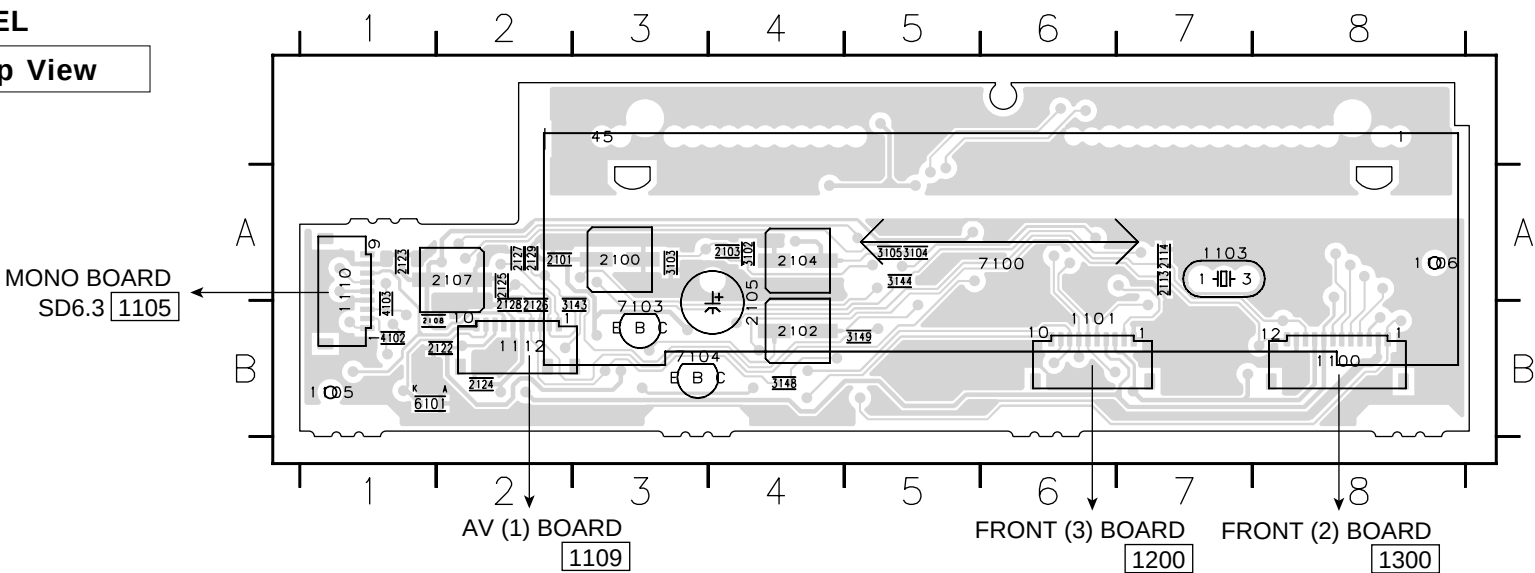
1xxx : Connector	3xxx : Resistor	5xxx : Coil	7xxx : IC, Transistor, FET
2xxx : Capacitor	4xxx : SMD jumper	6xxx : Diode	9xxx : Wire jumper



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

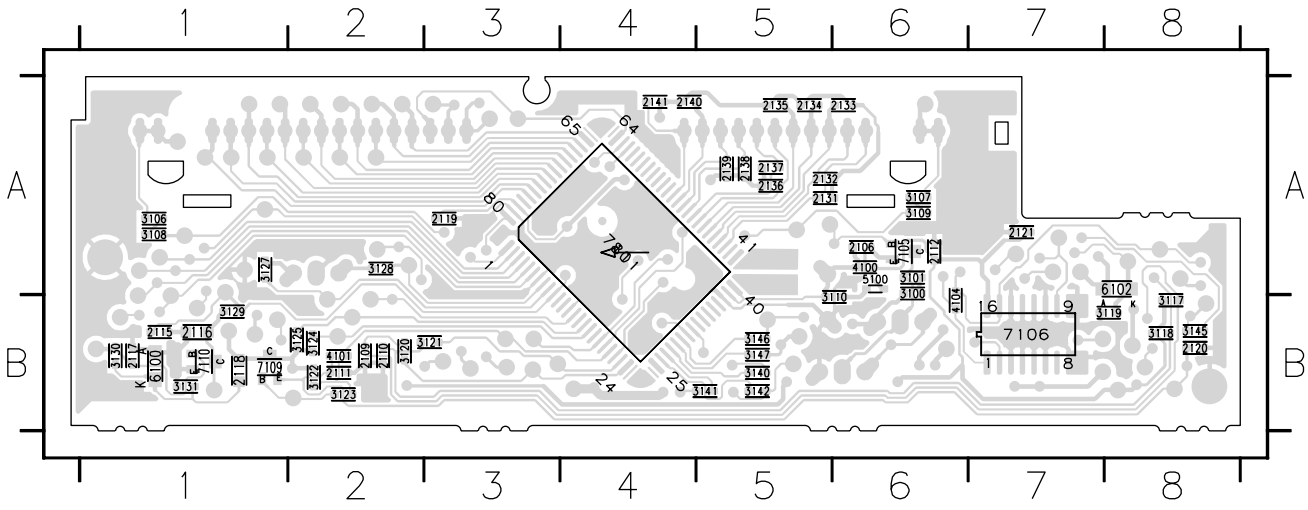
The first digit of a component indicates the component type.
1xxx : Connector 3xxx : Resistor 5xxx : Coil 7xxx : IC, Transistor, FET
2xxx : Capacitor 4xxx : SMD jumper 6xxx : Diode 9xxx : Wire jumper

DISPLAY PANEL
Front (1) Board Top View



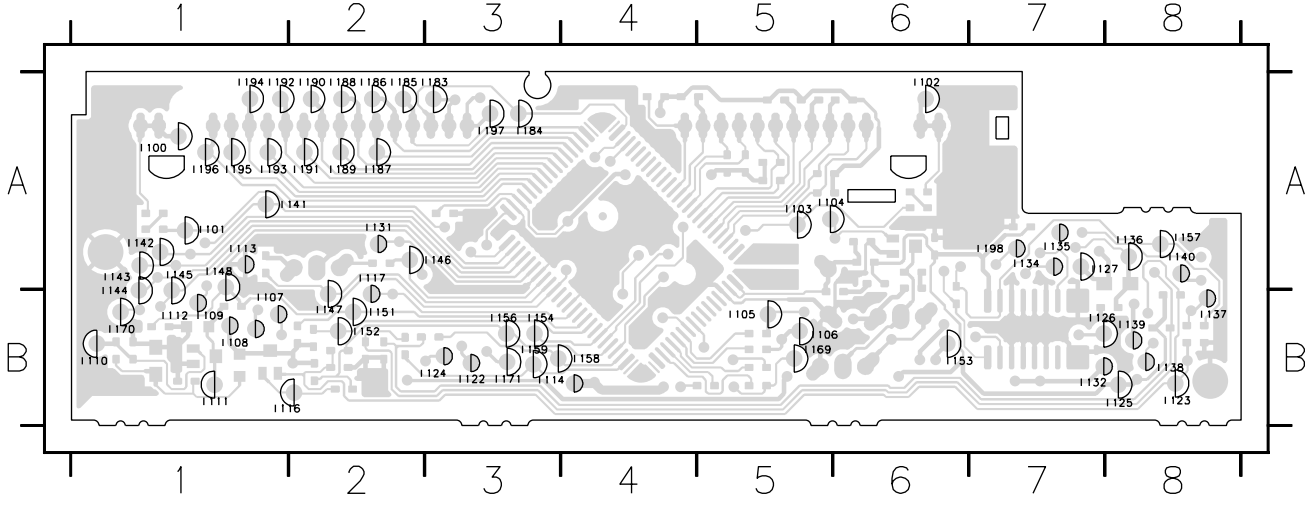
1100	B8	2127	A2
1101	B6	2128	B2
1103	A7	2129	A2
1105	B1	3102	A4
1106	A8	3103	A3
1110	A1	3104	A5
1112	B2	3105	A5
2100	A3	3143	B3
2101	A2	3144	A5
2102	B4	3148	B4
2103	A4	3149	B5
2104	A4	4102	B1
2105	B4	4103	B1
2107	A2	6101	B1
2108	B1	7100	A6
2113	A7	7103	B3
2114	A7	7104	B3
2122	B2		
2123	A1		
2124	B2	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

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

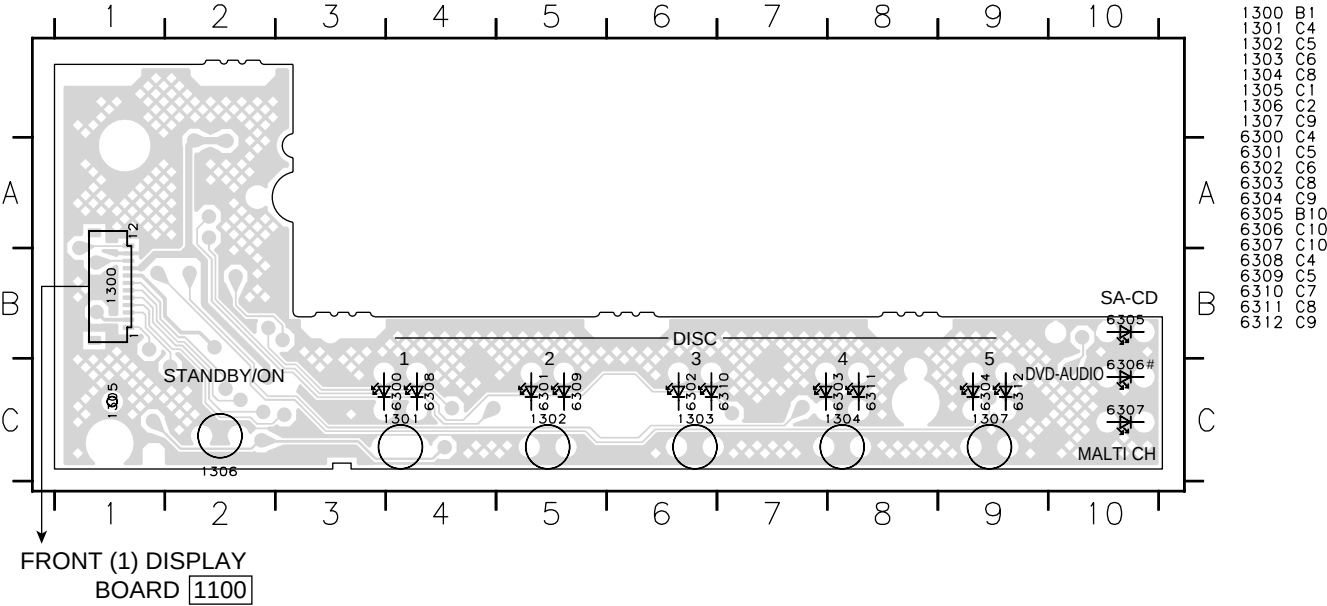


1100	A1	1131	A2	1158	B3
1101	A1	1132	B7	1159	B3
1102	A6	1134	A7	1169	B5
1103	A5	1135	A7	1170	B1
1104	A5	1136	A8	1171	B3
1105	B5	1137	B8	1183	A3
1106	B5	1138	B8	1184	A3
1107	B1	1139	B8	1185	A2
1108	B1	1140	A8	1186	A2
1109	B1	1141	A1	1187	A2
1110	B1	1142	A1	1188	A2
1111	B1	1143	A1	1189	A2
1112	B1	1144	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
FOR INFORMATION ONLY (NO REPLACEMENT PARTS WILL BE AVAILABLE)

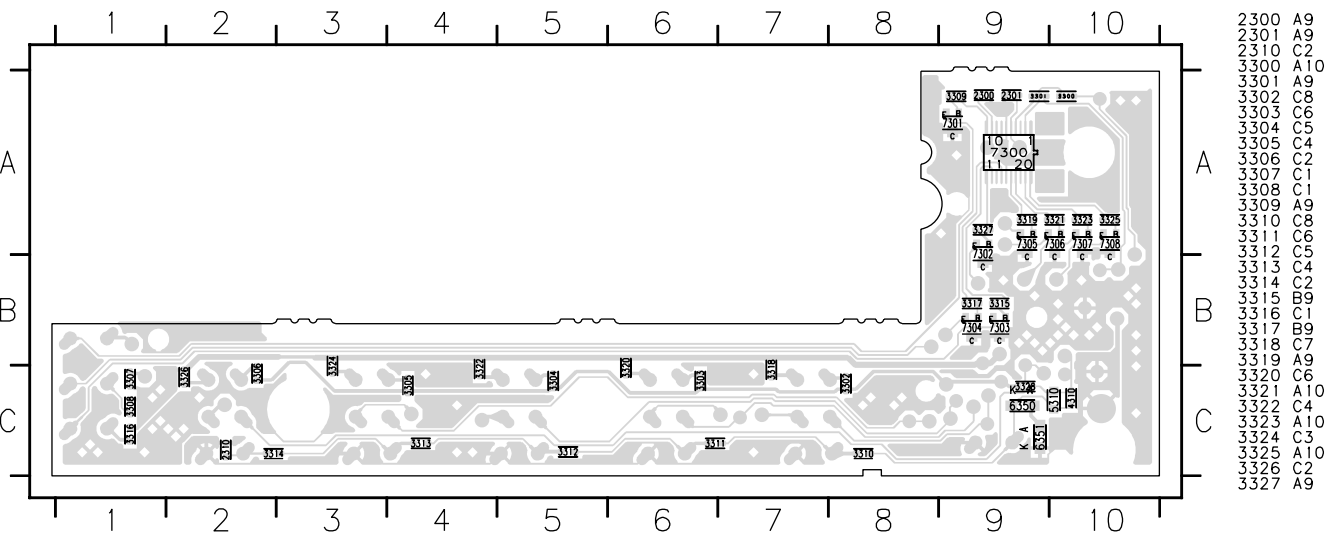
STANDBY/ON

Front (2) Board Top View

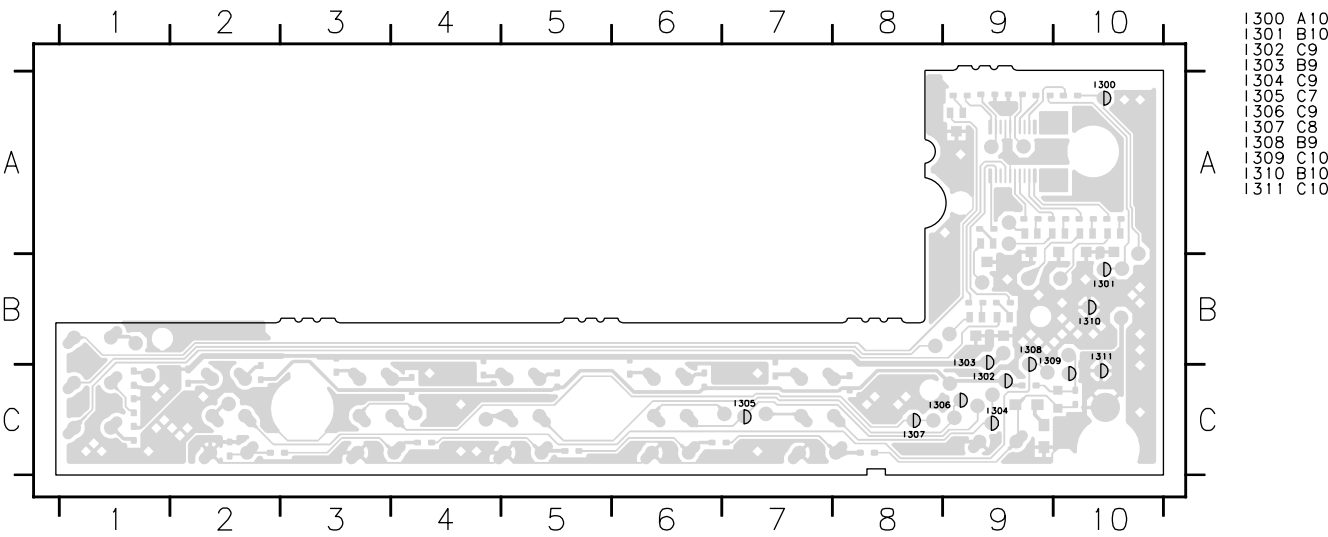


The first digit of a component indicates the component type.
1xxx : Connector 3xxx : Resistor 5xxx : Coil 7xxx : IC, Transistor, FET
2xxx : Capacitor 4xxx : SMD jumper 6xxx : Diode 9xxx : Wire jumper

Front (2) Board Bottom View



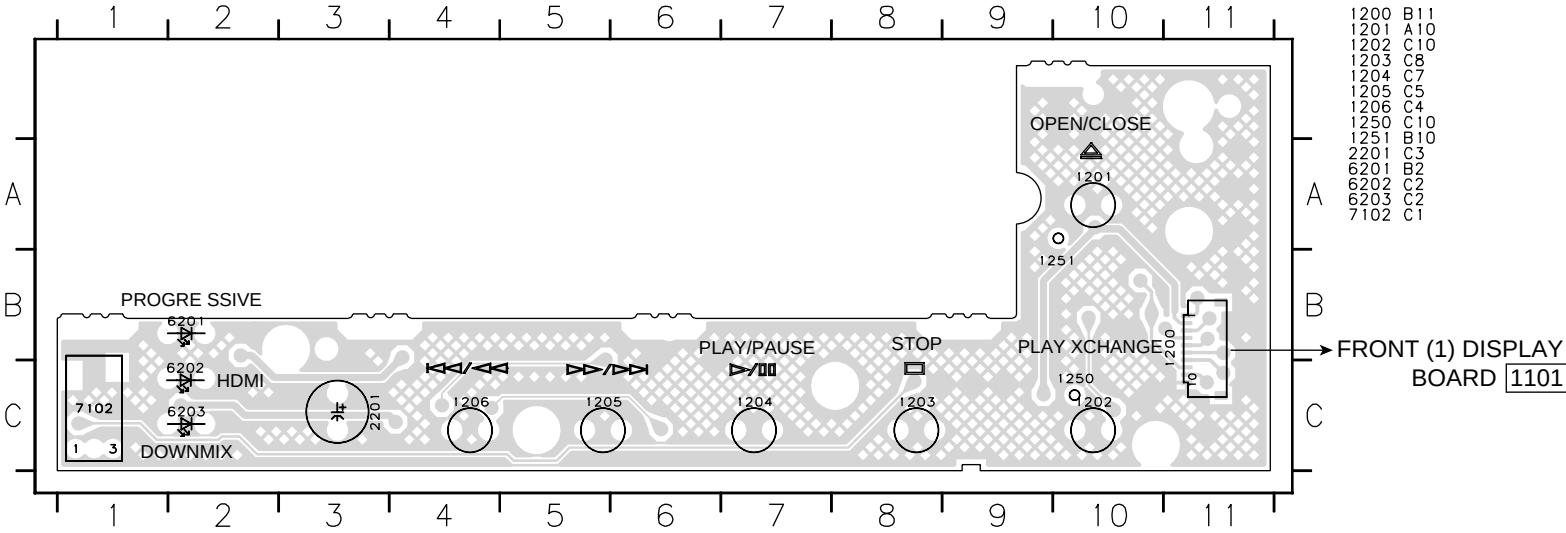
Front (2) Board Testpoint View



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

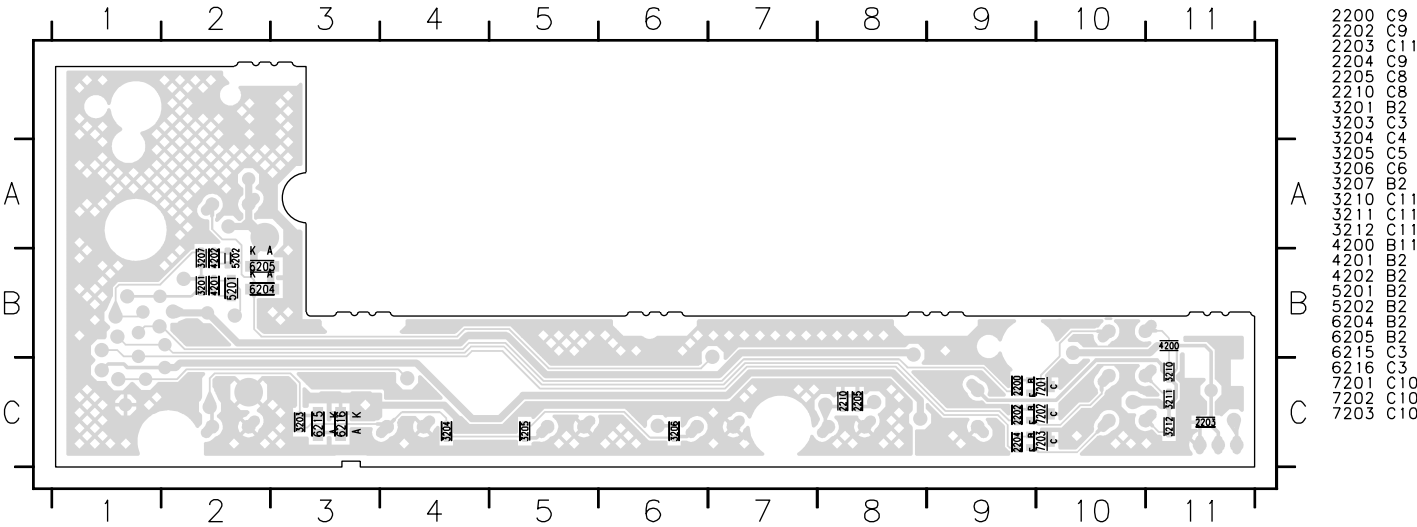
OPEN/CLOSE

Front (3) Board Top View

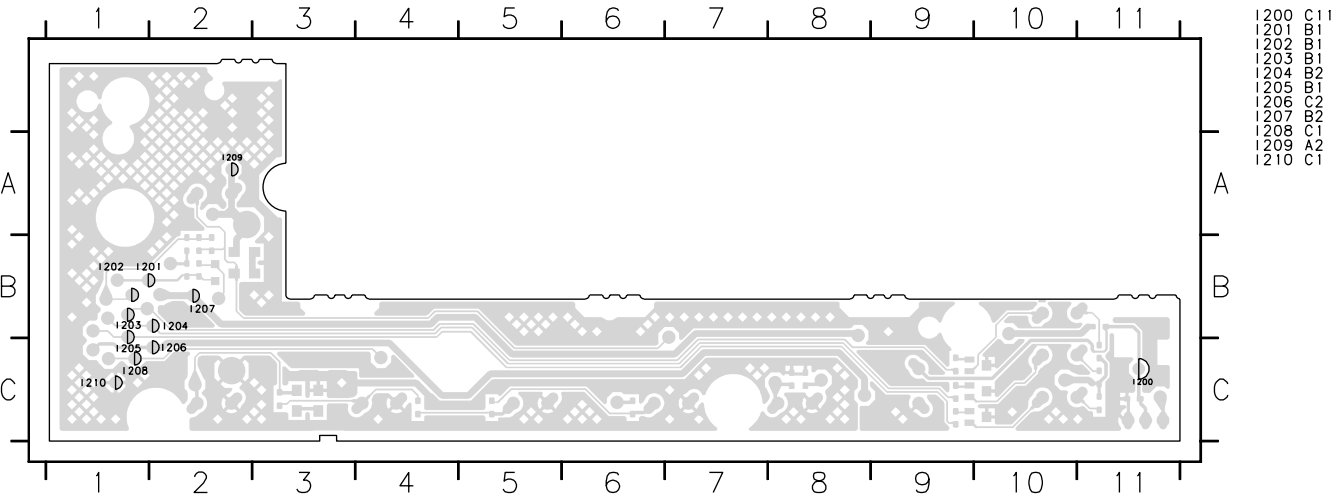


The first digit of a component indicates the component type.
1xxx : Connector 3xxx : Resistor 5xxx : Coil 7xxx : IC, Transistor, FET
2xxx : Capacitor 4xxx : SMD jumper 6xxx : Diode 9xxx : Wire jumper

Front (3) Board Bottom View



Front (3) Board Testpoint View

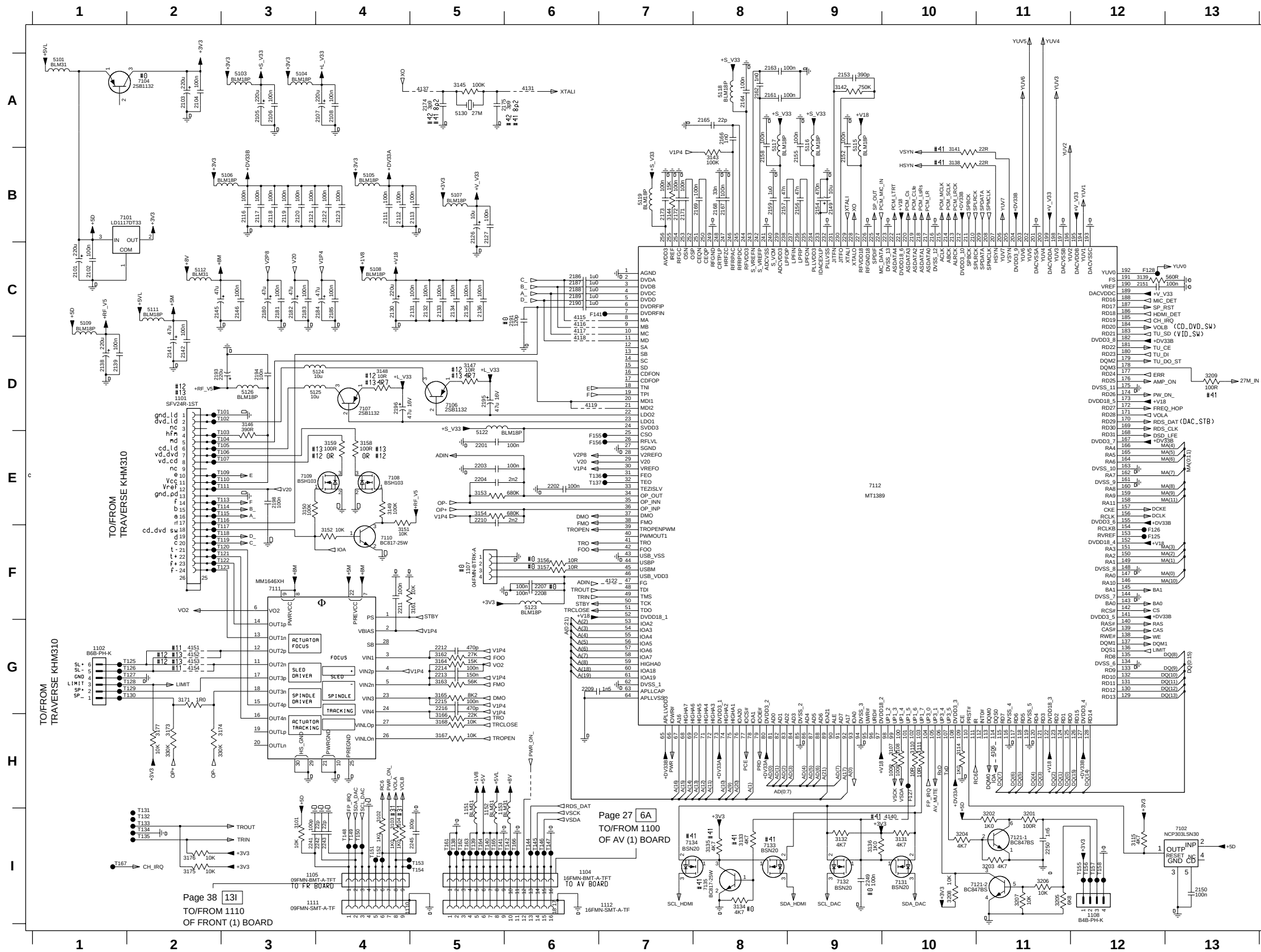


SCHEMATIC DIAGRAM
FOR INFORMATION ONLY (NO REPLACEMENT PARTS WILL BE AVAILABLE)

MONO (1/2)

The first digit of a component indicates the component type.

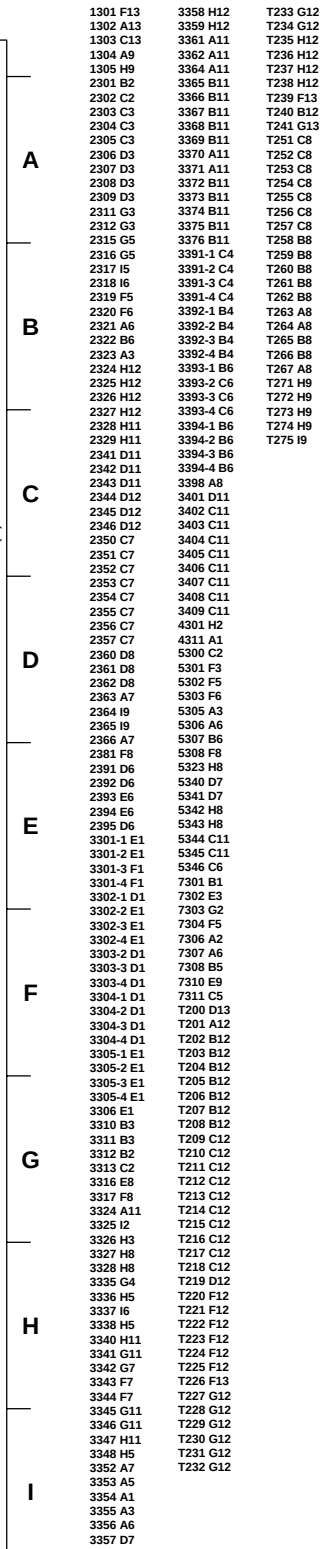
1xxx : Connector 3xxx : Resistor 5xxx : Coil 7xxx : IC, Transistor, FET
2xxx : Capacitor 4xxx : SMD jumper 6xxx : Diode 9xxx : Wire jumper



#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 5DCD

* 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

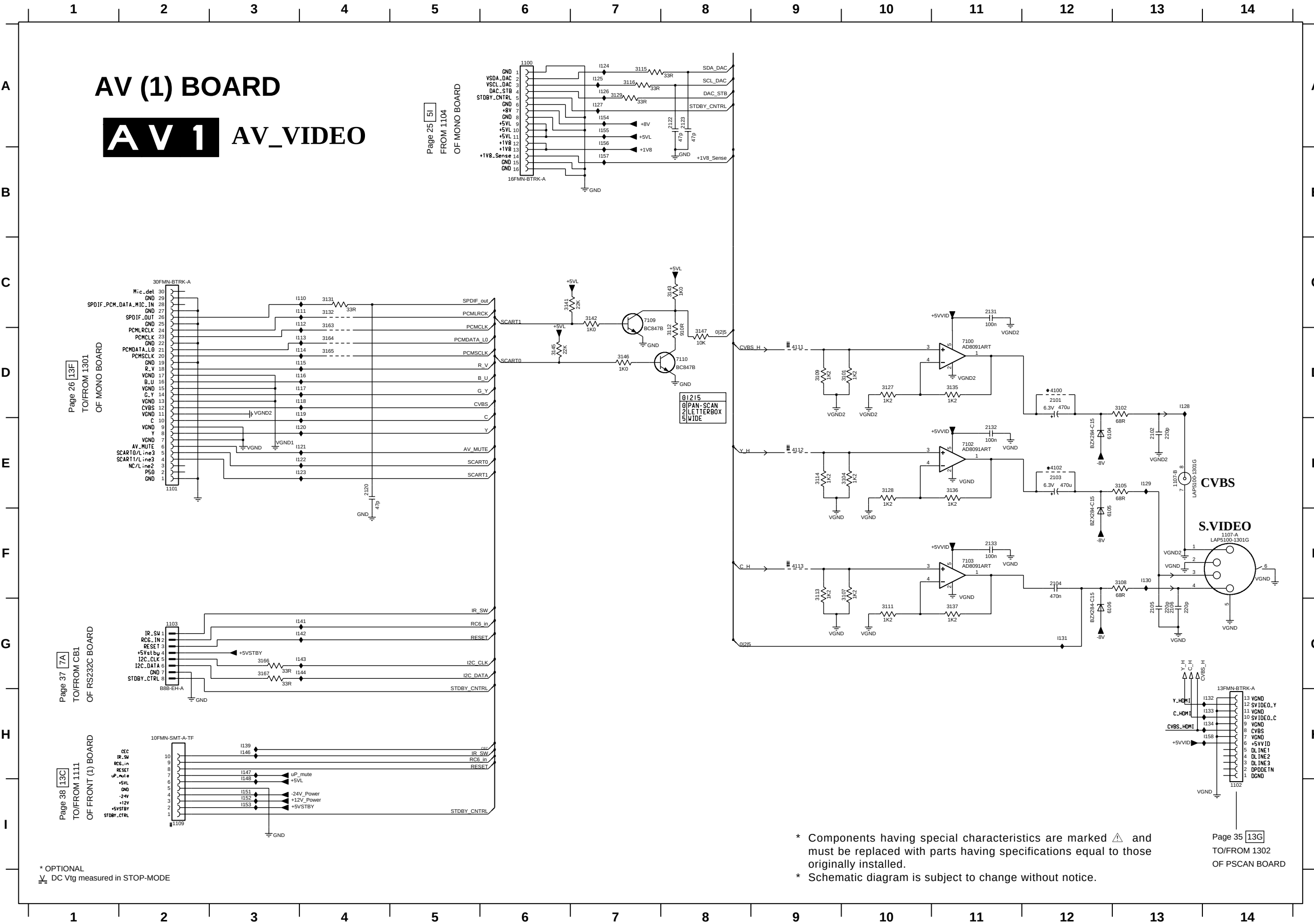


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■ SCHEMATIC DIAGRAM
FOR INFORMATION ONLY (NO REPLACEMENT PARTS WILL BE AVAILABLE)

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

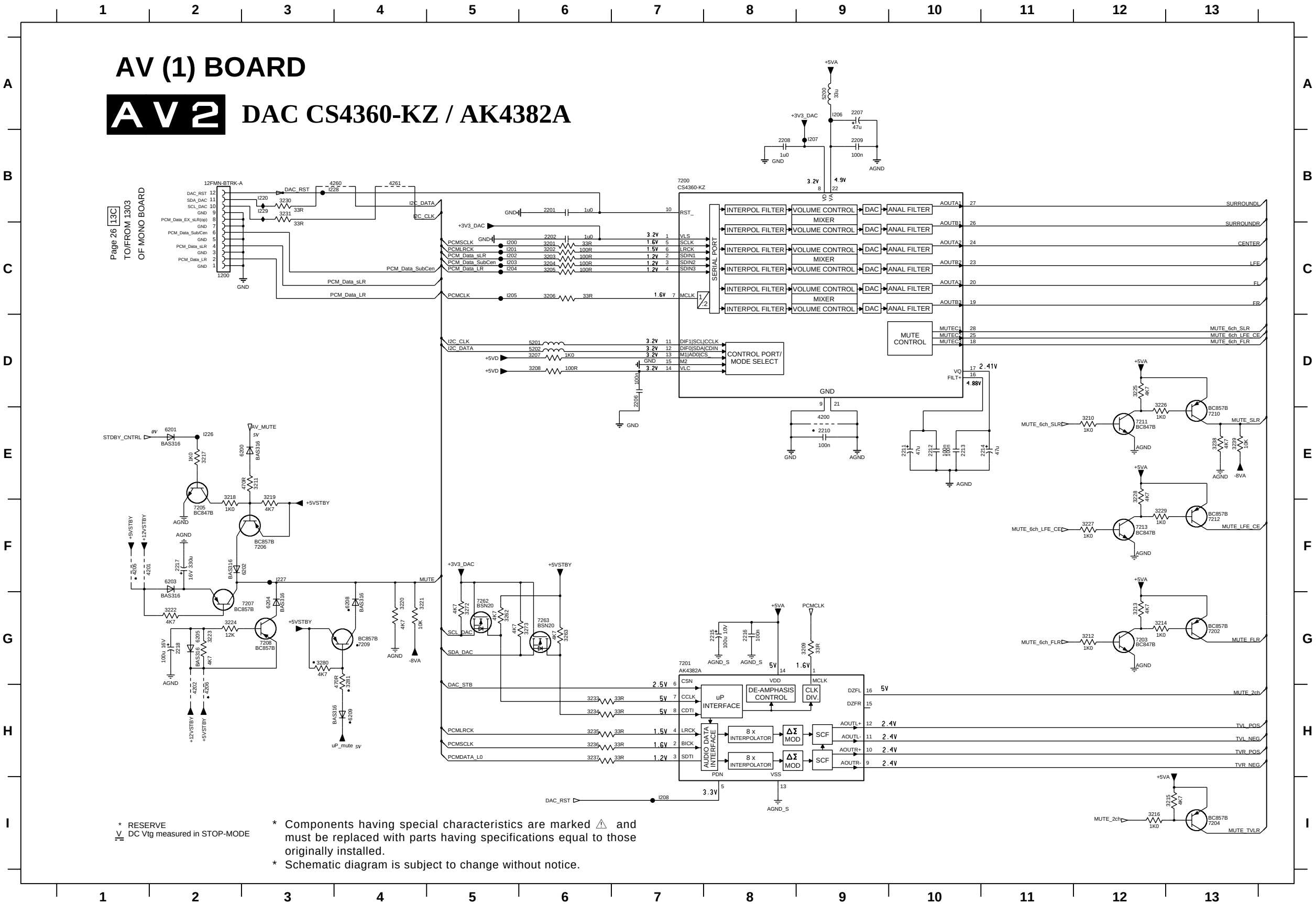


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* Schematic diagram is subject to change without notice.

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



- 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 I13
- 3216 I12
- 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 G5
- 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 I13
- 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

AV (1) BOARD

AV3 AV_AUDIO (Dif_Amp for 6-channels)

Page 31 1C
TO/FROM 1500
OF AV (2) BOARD

Page 31 1B
TO/FROM 1503
OF AV (2) BOARD

* 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

AV (1) BOARD

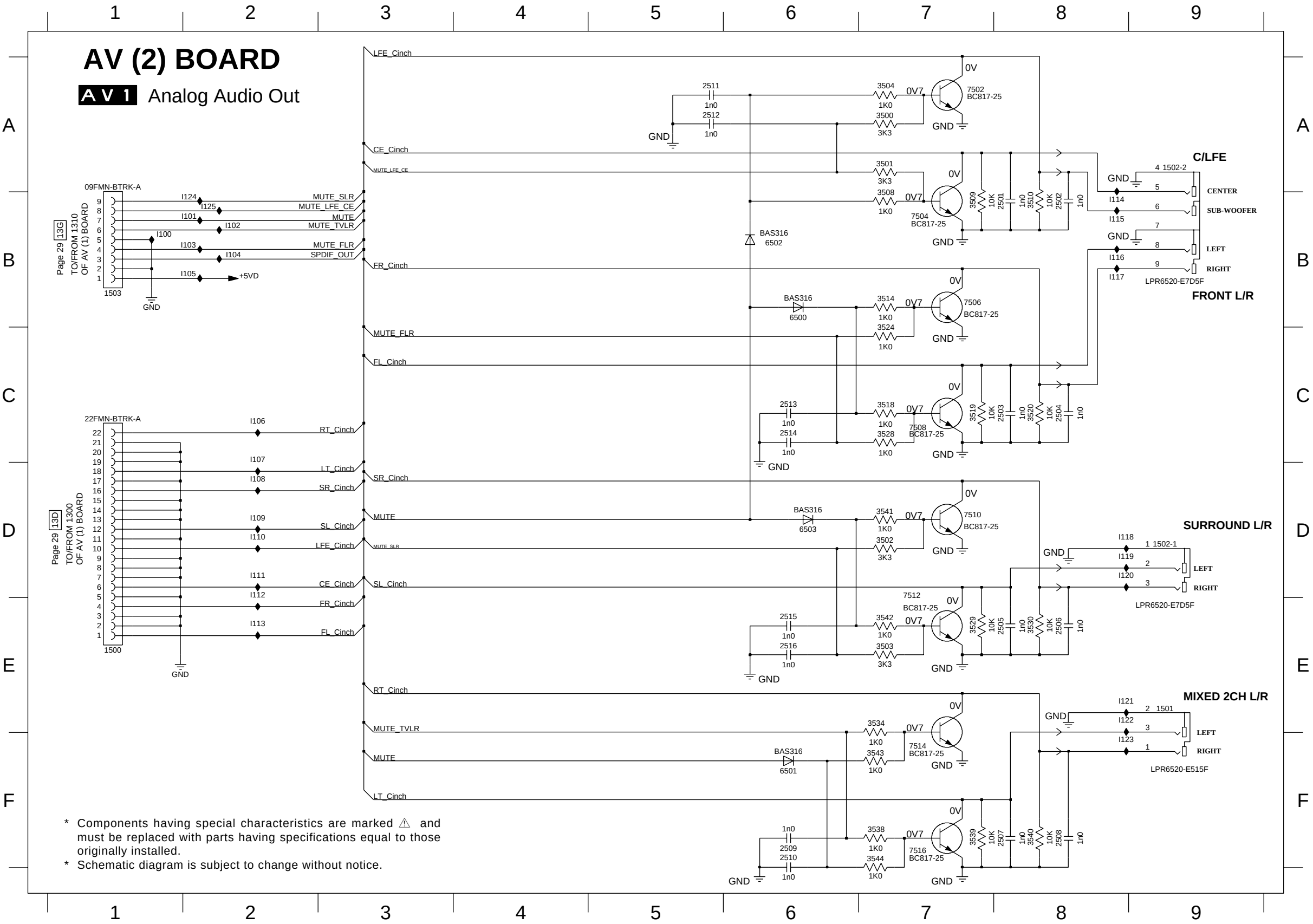
AV 3 AV_AUDIO (Dif_Amp for 6-channels)

2300 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 D2
2309 C1	3365 D3
2310 C5	3366 G2
2311 B3	3367 F3
2313 C3	3369 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 H4	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 F3
2335 D4	3388 G4
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	1300 D12
2351 F9	1301 D12
2355 D7	1302 D12
2356 F7	1303 D12
2361 B4	1304 D12
2364 C4	1305 E12
2367 G4	1306 E12
2371 I4	1307 E12
2374 D4	1308 G12
2377 F4	1309 G12
2382 G3	1310 G12
2383 I3	1311 G12
1310 G3	1312 H13
2302 A2	1313 G12
2304 A3	1314 G12
3305 A6	
3306 B2	
3307 C2	
3308 B2	
3309 B2	
3310 B3	
3311 C6	
3314 G2	
3315 G2	
3316 G3	
3317 G5	
3320 H2	
3321 H2	
3322 H3	
3323 H6	
3326 D2	
3327 D2	
3328 D3	
3329 D6	
3330 D2	
3332 E2	
3333 E2	
3334 E3	
3335 E6	
3336 D7	
3337 D8	
3338 D8	
3339 D11	
3340 E7	
3341 E8	
3342 E9	
3343 E7	
3344 E8	
3345 F8	
3346 F11	
3347 E7	
3348 F8	
3349 F9	
3350 D8	
3351 E8	
3352 F8	
3353 F8	
3354 G2	

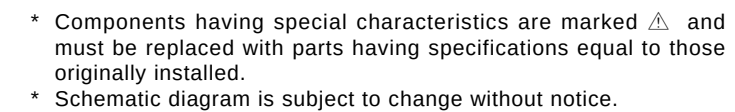
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- * Schematic diagram is subject to change without notice.

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

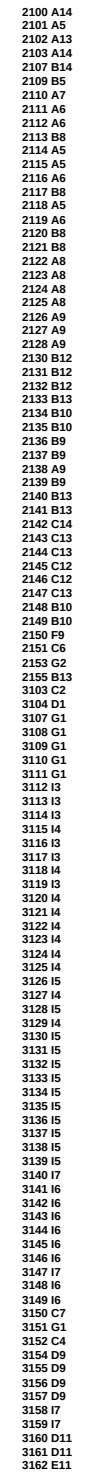


1xxx : Connector	3xxx : Resistor	5xxx : Coil	7xxx : IC, Transistor, FET
2xxx : Capacitor	4xxx : SMD jumper	6xxx : Diode	9xxx : Wire jumper



A **P 1** P-scan_DeInterlacer

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.

P2 P-scan_Ext_DAC

SCAN MODE
INTERLACED
PROGRESSIVE

NOTE FOR DELAYED RESET APPLN:
Stuff 3289, 3464 and 3481.
Remove 3228.

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

Pinout Table:

Pin	Signal	Pin	Signal
1	INT	11	EXT-LF
2	SPDIF_IN	12	AV
3	P4	13	AV
4	P4	14	AV
5	P4	15	AV
6	P4	16	AV
7	PCM_CLK	17	AV
8	P4	18	AV
9	P4	19	AV
10	P4	20	AV
11	P4	21	AV
12	P4	22	AV
13	P4	23	AV
14	P4	24	AV
15	P4	25	AV
16	P4	26	AV
17	P4	27	AV
18	P4	28	AV
19	P4	29	AV
20	P4	30	AV
21	P4	31	AV
22	P4	32	AV
23	P4	33	AV
24	P4	34	AV
25	P4	35	AV
26	P4	36	AV
27	P4	37	AV
28	P4	38	AV
29	P4	39	AV
30	P4	40	AV
31	P4	41	AV
32	P4	42	AV
33	P4	43	AV
34	P4	44	AV
35	P4	45	AV
36	P4	46	AV
37	P4	47	AV
38	P4	48	AV
39	P4	49	AV
40	P4	50	AV
41	P4	51	AV
42	P4	52	AV
43	P4	53	AV
44	P4	54	AV
45	P4	55	AV
46	P4	56	AV
47	P4	57	AV
48	P4	58	AV
49	P4	59	AV
50	P4	60	AV
51	P4	61	AV
52	P4	62	AV
53	P4	63	AV
54	P4	64	AV
55	P4	65	AV
56	P4	66	AV
57	P4	67	AV
58	P4	68	AV
59	P4	69	AV
60	P4	70	AV
61	P4	71	AV
62	P4	72	AV
63	P4	73	AV
64	P4	74	AV
65	P4	75	AV
66	P4	76	AV
67	P4	77	AV
68	P4	78	AV
69	P4	79	AV
70	P4	80	AV
71	P4	81	AV
72	P4	82	AV
73	P4	83	AV
74	P4	84	AV
75	P4	85	AV
76	P4	86	AV
77	P4	87	AV
78	P4	88	AV
79	P4	89	AV
80	P4	90	AV

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

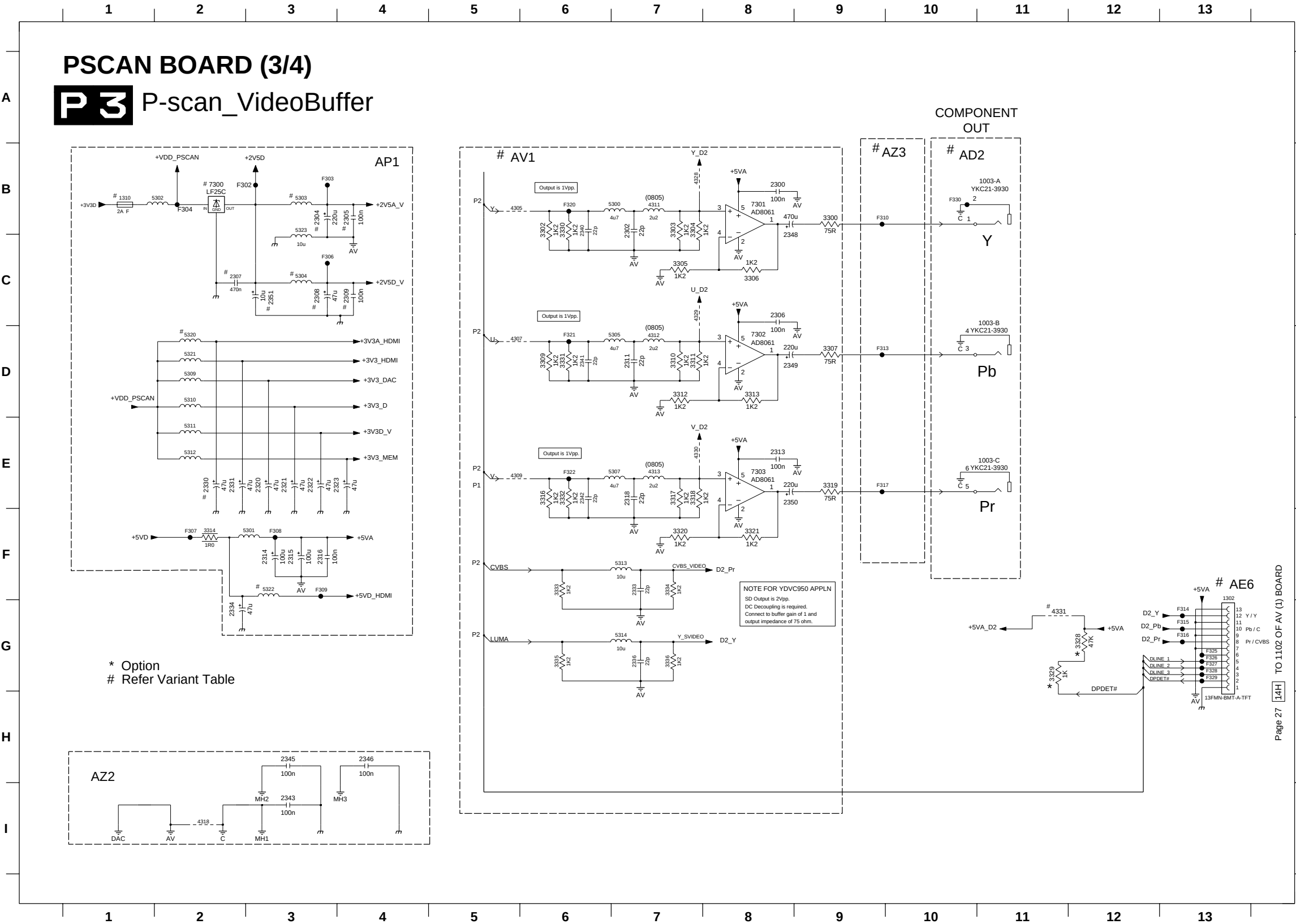
1000 D1
1203 A4
1210 F3
2201 I12
2210 H10
2210 B11
2213 C12
2214 C11
2215 C13
2216 I14
2218 B12
2219 G14
2221 I11
2222 I11
2223 A4
2227 F7
2228 G3
2227 B1
2201 A5
3202 A7
3203 I13
3204 C14
3205 F4
3206 F14
3208 G3
3209 H14
3210 I10
3212 H10
3214 I9
3216 I11
3218 B7
3222 G6
3220 H9
3221 H9
3223 A8
3224 A11
3225 I10
3227 H2
3229 C7
3230 C9
3231 C9
3232 D9
3233 D9
3234 D9
3236 D9
3237 D9
3238 D9
3239 D9
3240 E9
3241 E9
3242 E9
3243 E9
3244 E9
3245 E9
3246 F9
3247 F9
3248 F9
3249 F9
3250 F9
3251 G9
3252 G9
3253 G9
3255 G9
3256 G9
3257 G9
3260 I9
3263 A11
3264 A12
3267 B2
3268 B2
3272 A7
3272 B2
3281 C4
3289 B3

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.

■ 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



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	7300 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	F305 C3
2333 F7	F307 F2
2334 G2	F308 F3
2336 G7	F309 F3
2340 B6	F310 B9
2341 D6	F313 D9
2342 E6	F314 G13
2343 I3	F315 G13
2345 H3	F316 G13
2346 H4	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	

* 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.

P4 P-scan_HDMI
* Option
Refer Variant Table

NOTES :
Use 5V_STBY with CEC else 5V active if no CEC.
Use 12V active.

NOTES FOR DVDR755 APPLN:
If 5V for HDMI socket from external source, 5408 is in, 7418 & 4412 out.

IZO

HDMI PANELLINK TRANSMITTER

AP1

AZ3

AD0

AV0

On Top side for testing HPD

- * 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)

RS232C BOARD

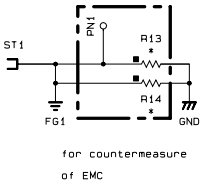
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
	CARBON FILM RESISTOR (P=10)
	METAL OXIDE FILM RESISTOR
	METAL FILM RESISTOR
	METAL PLATE RESISTOR
	FIRE PROOF CARBON FILM RESISTOR
	CEMENT MOLDED RESISTOR
	SEMI VARIABLE RESISTOR
	CHIP RESISTOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
	CERAMIC TUBULAR CAPACITOR
	POLYESTER FILM CAPACITOR
	POLYSTYRENE FILM CAPACITOR
	MICA CAPACITOR
	POLYPROPYLENE FILM CAPACITOR
	SEMICONDUCTIVE CERAMIC CAPACITOR
	POLYPHENYLENE SULFIDE FILM CAPACITOR

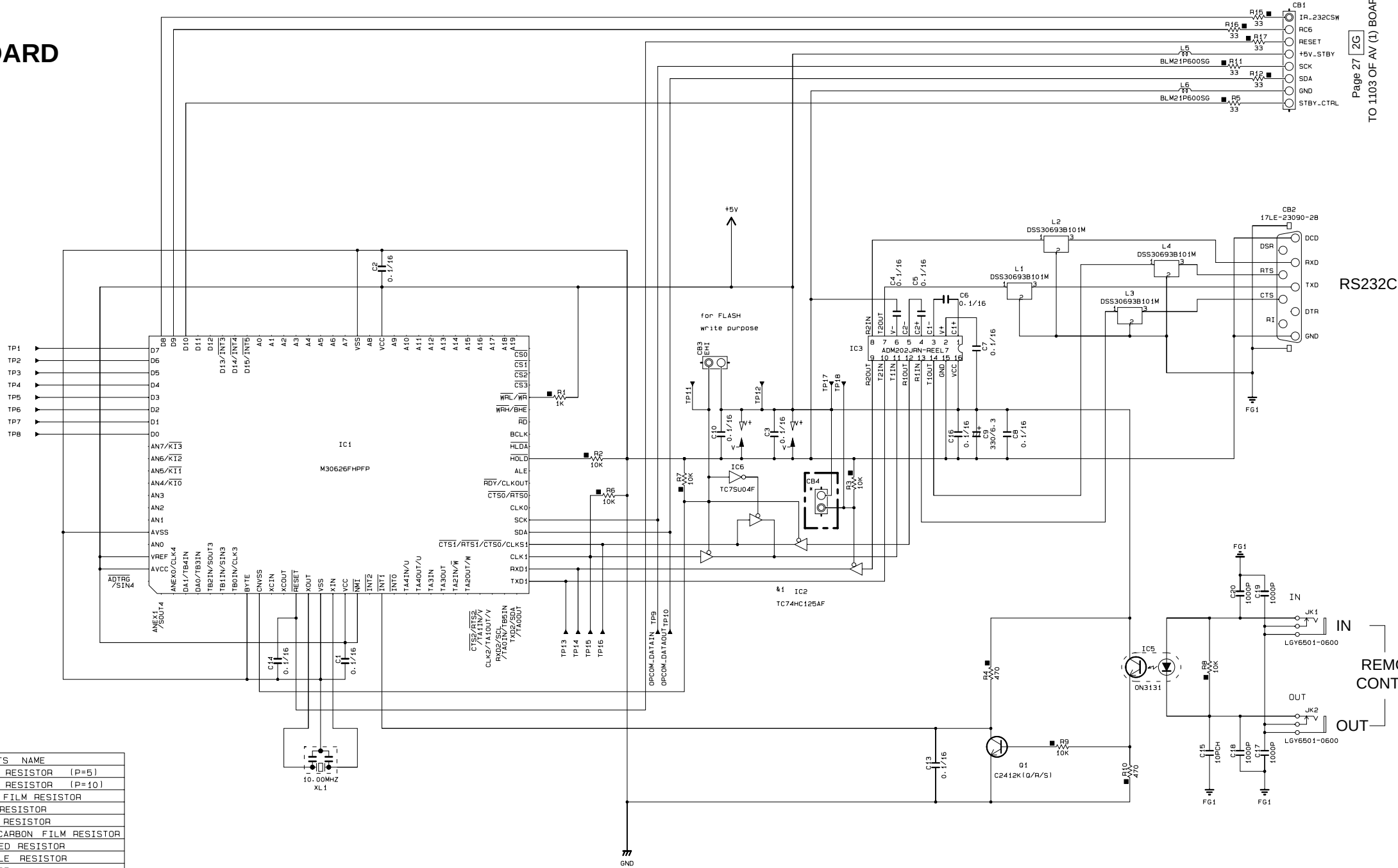
Mark	Reference Parts Number	Parts Name
k1	IC2	TC74HC125AF HD74HC125FP

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

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



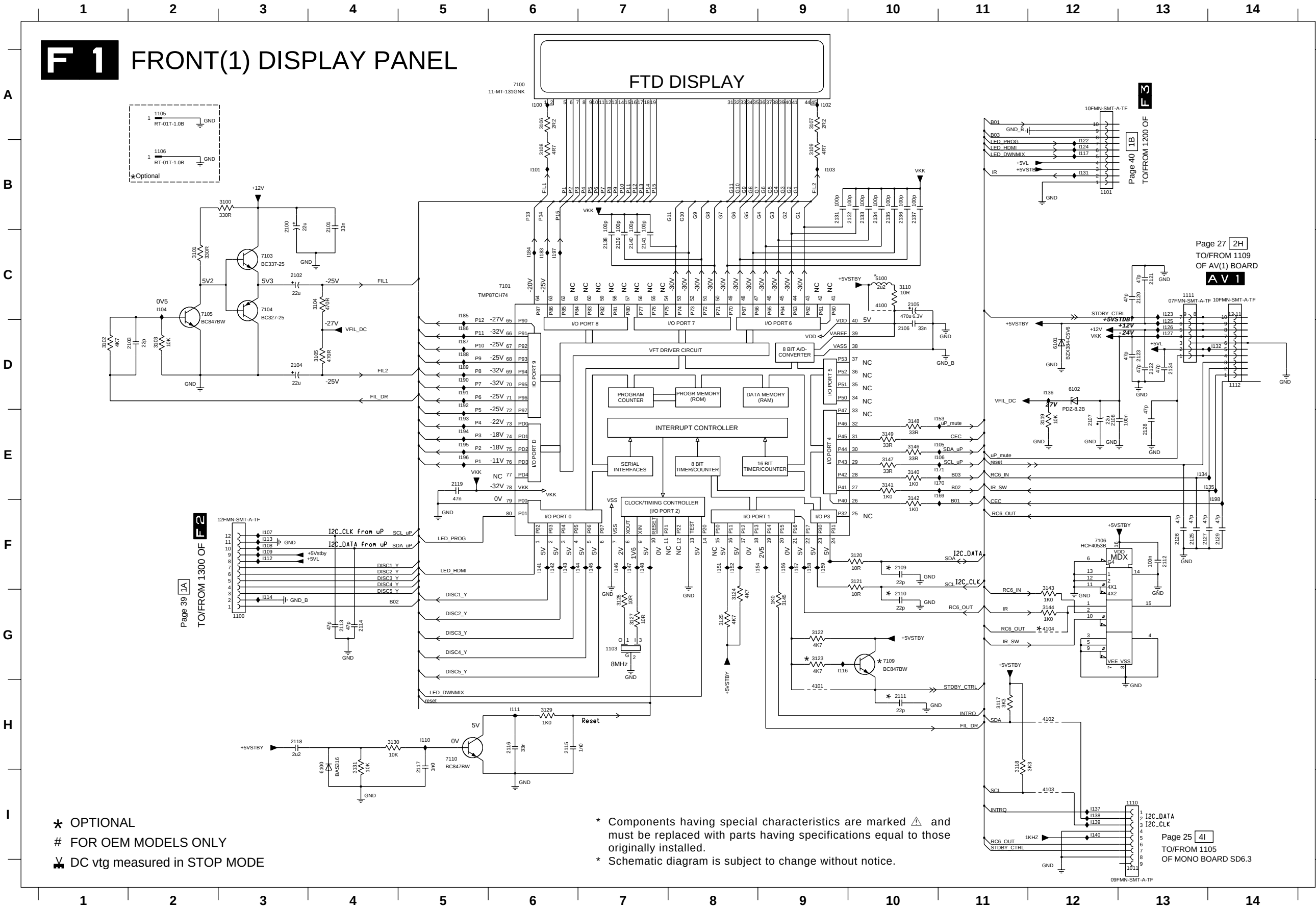
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* Schematic diagram is subject to change without notice.



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

■ SCHEMATIC DIAGRAM
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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



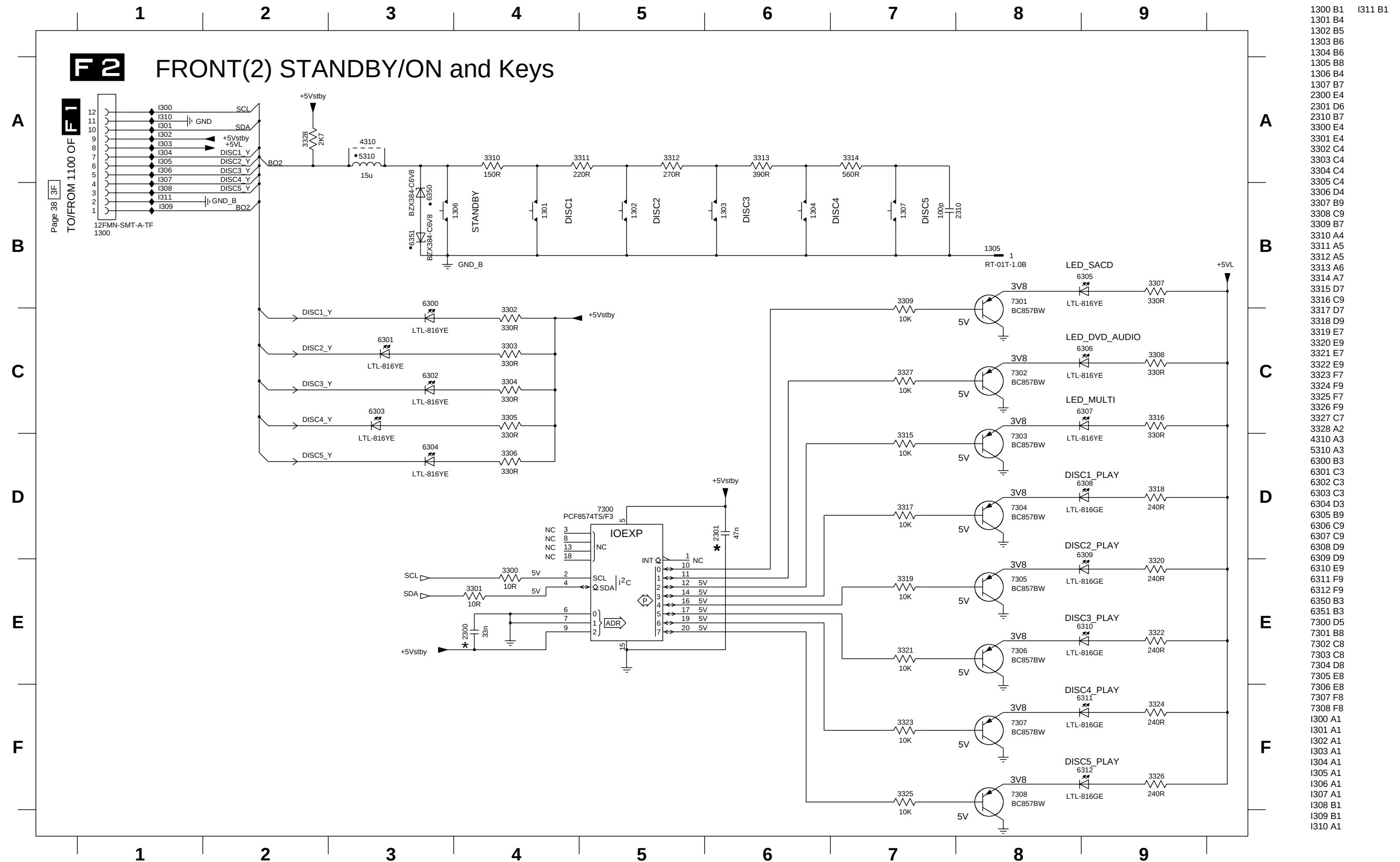
1100 G3	I113 F3
1101 B12	I114 G3
1103 G7	I116 G9
1105 A2	I117 B12
1106 B2	I122 B12
1110 I13	I123 C13
1111 C13	I124 B12
1112 D14	I125 D13
1100 B3	I126 D13
1101 B4	I127 D13
1102 C3	I131 B12
1103 D2	I132 D14
1104 D3	I134 E13
1105 C10	I135 E14
1106 D10	I136 D12
1107 E12	I137 I12
1108 E12	I138 I12
1109 F10	I139 I12
1110 G10	I140 I12
1111 H10	I141 F6
1112 F13	I142 F6
1113 G4	I143 F6
1114 G4	I144 F6
1115 H6	I145 F7
1116 H6	I146 F7
1117 H5	I147 F7
1118 H3	I148 F7
1119 E5	I151 F8
1120 C13	I152 F8
1121 C13	I153 E11
1122 D13	I154 F8
1123 D13	I156 F9
1124 D13	I157 F9
1125 F13	I158 F9
1126 F13	I159 F9
1127 F13	I169 E11
1128 F13	I170 E11
1129 F14	I171 E11
1131 B9	I183 C6
1132 B10	I184 C6
1133 B10	I185 C5
1134 B10	I186 D5
1135 B10	I187 D5
1136 B10	I188 D5
1137 B10	I189 D5
1138 C7	I190 D5
1139 C7	I191 D5
1140 C7	I192 D5
1141 C7	I193 E5
1142 C7	I194 E5
1143 C7	I195 E5
1144 C7	I196 E5
1145 C7	I197 C6
1146 C7	I198 E14

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

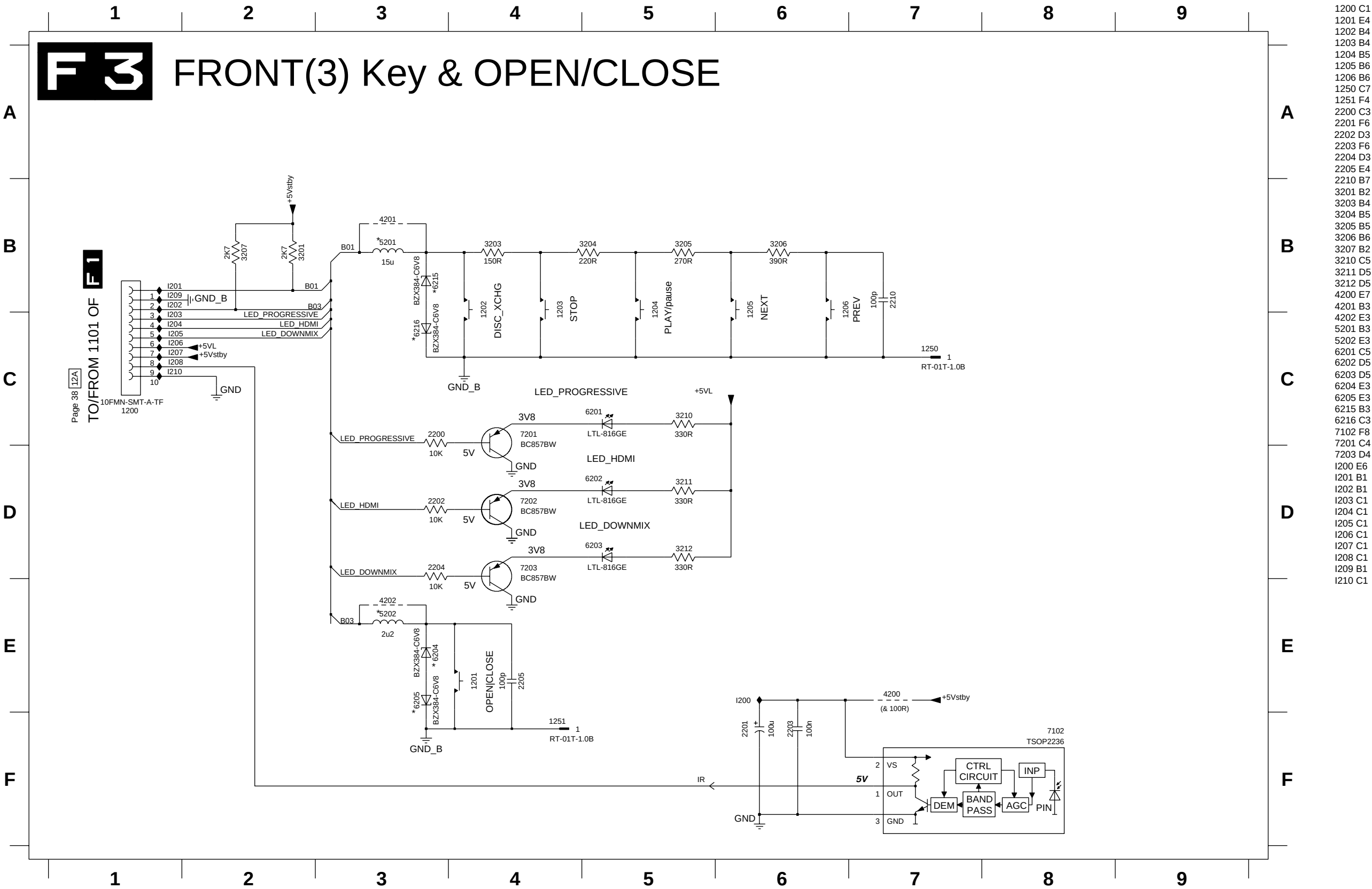


* Components having special characteristics are marked  and must be replaced with parts having specifications equal to those originally installed.

* Schematic diagram is subject to change without notice.

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

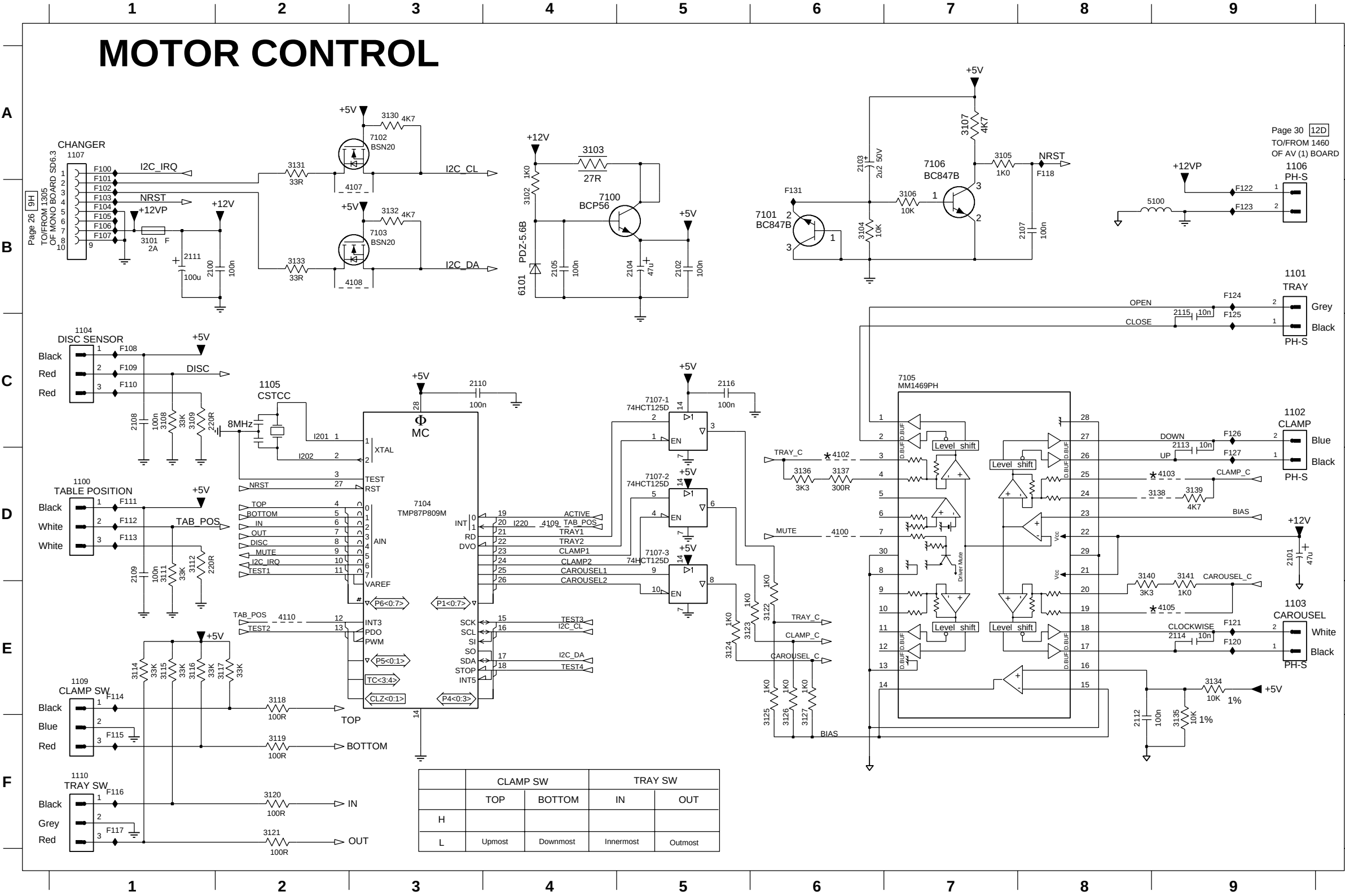
The first digit of a component indicates the component type.
1xxx : Connector 3xxx : Resistor 5xxx : Coil 7xxx : IC, Transistor, FET
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■ SCHEMATIC DIAGRAM
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The first digit of a component indicates the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



TRAY1	TRAY2	TRAY
H	L	CLOSE
L	L	OPEN
X	H	STOP

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

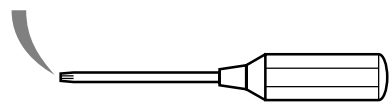
CAROUSEL1	CAROUSEL2	CAROUSEL
H	L	CW
L	L	CCW
X	H	STOP

* 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

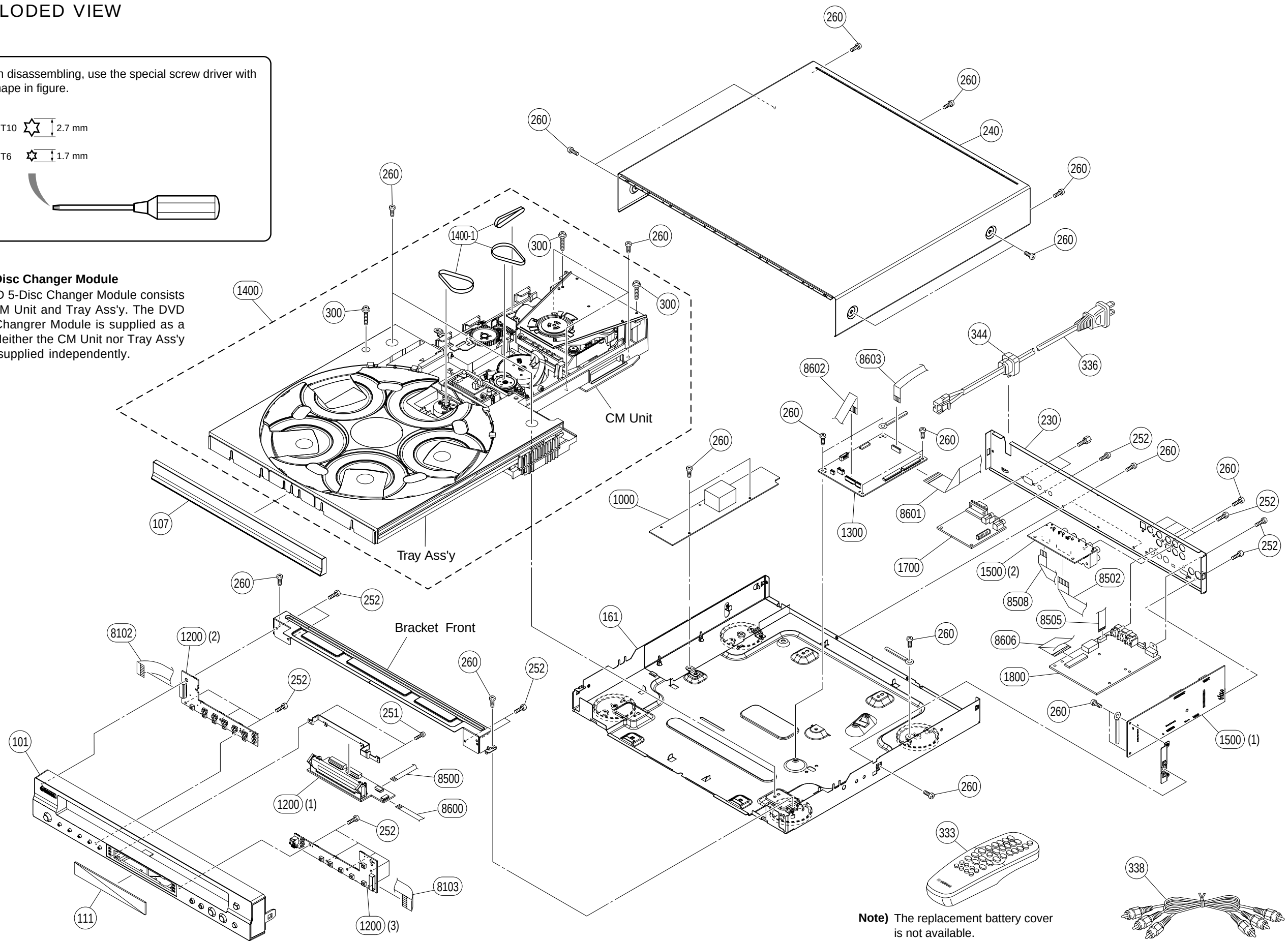
When disassembling, use the special screw driver with tip shape in figure.

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	YE/RD/WH 1.5m 1pc	2422 076 00304
		BATTERY	UM-3 2pcs	

* New Parts

DVD-C950



DVD-C950
