DVD PLAYER

DVD-S661/DV-S6160

SERVICE MANUAL

For U, K, A, L, P models

This service manual is for the DVD-S661/DV-S6160 (U, K, A, L, P models).
For the DVD-S661 (G model) service manual, please refer to the following service manual:

DVD-S661 (G model): 101047

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.

■ CONTENTS

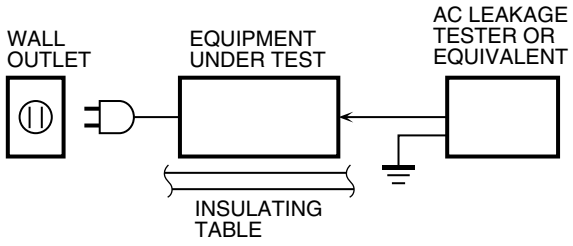
101050

YAMAHA CORPORATION
P.O.Box 1, Hamamatsu, Japan
'07.05

■ 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 0.15μF.



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

WARNING: CHEMICAL CONTENT NOTICE!

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

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

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

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

WARNING: Laser Safety

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

1) When testing and/or repairing any component within the product, keep your eyes and skin more than 30 cm away from the laser pick-up unit at all times. Do not stare at the laser beam at any time.

2) Do not attempt to readjust, disassemble or repair the laser pick-up, unless noted elsewhere in this manual.

3) CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser Emitting conditions:

1) When the Top Cover is removed, and the STANDBY/ON SW is turned to the "ON" position, the laser component will emit a beam for several seconds to detect if a disc is present. During this time (5-10 sec.) the laser may radiate through the lens of the laser pick-up unit. Do not attempt any servicing during this period!
   If no disc is detected, the laser will stop emitting the beam. When a disc is loaded, you will not be exposed to any laser emissions.

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)
	10 mW (VCD/CD)
Beam divergence:	60 degree

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.

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

ADVARSEL
SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.

ADVARSEL
SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.

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

VARO!
AVATTAESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LASER SÄ TEILYLLE. ÄLÄ KATSO SÄTEESEEN.

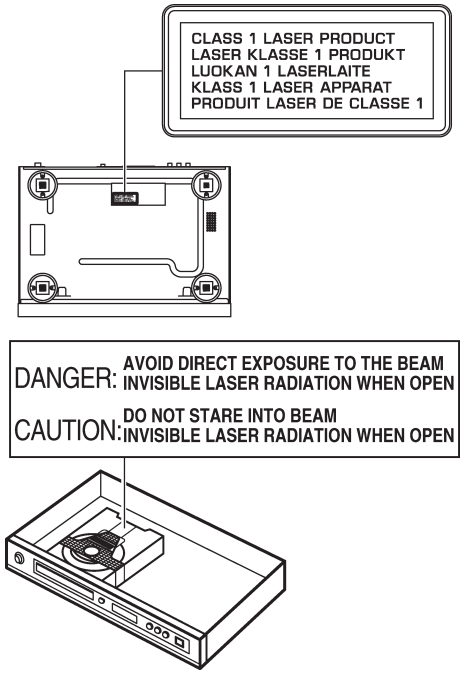
VORSICHT
SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETSEN.

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

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

ПРЕДУПРЕЖДЕНИЕ
ПРИ ОТКРЫТИИ УСТРОЙСТВА ВЫ МОЖЕТЕ ПОДВЕРГНУТБСЯ ВОЗДЕЙСТВИЮ ВИДИМОГО И НЕВИДИМОГО ЛАЗЕРНОГО ИЗЛУЧЕНИЯ. ИЗБЕГАИТЕ ВОЗДЕЙСТВИЯ ЛУЧА.

OSTRZEŻENIE
WIDZIALNE I NIEWIDZIALNE PROMIENIOWANIE LASEROWE PO OTWARCIU. UNIKAĆ NARAŻENIA NA WIĄZKĘ LASEROWĄ.



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

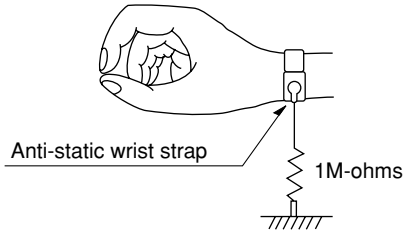
The laser diode in the DVD mechanism may be damaged due to static electricity from clothes or the human body. Use caution to prevent electrostatic damage when servicing or handling the DVD-mechanism.

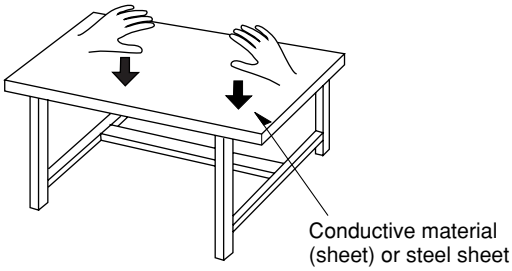
1. Grounding for electrostatic damage prevention

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

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

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



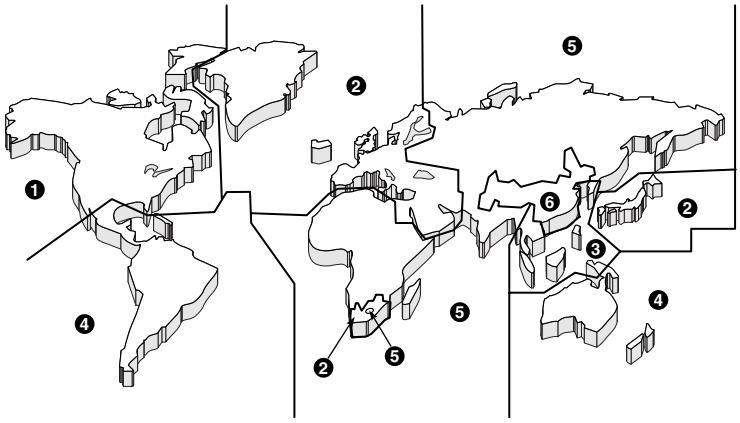


2. Handling Precautions for DVD mechanism

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

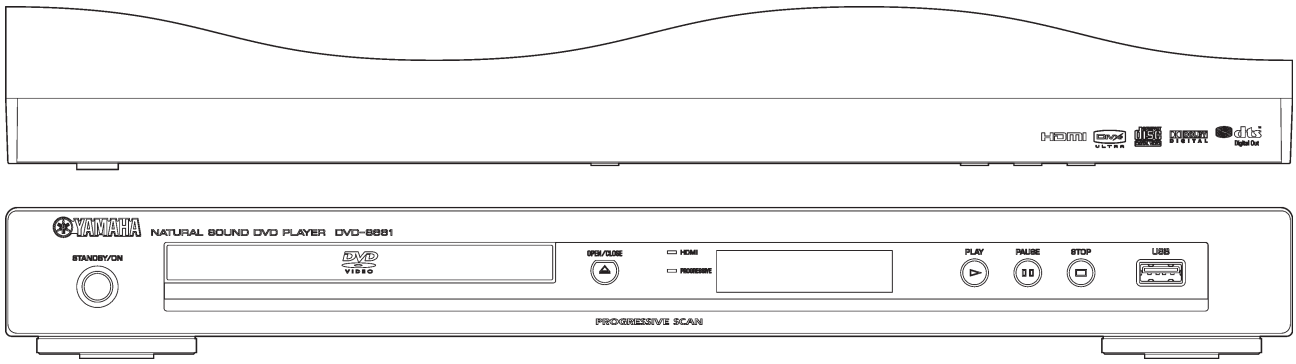
■ LOCALE MANAGEMENT INFORMATION

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

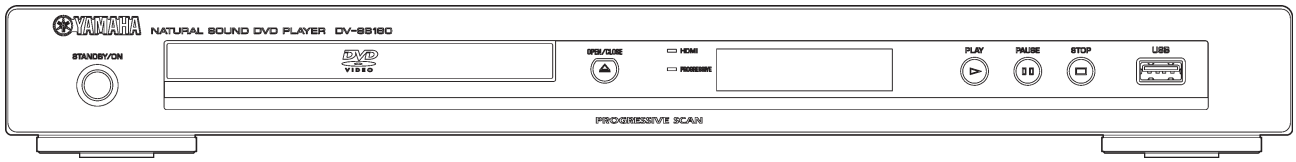


■ FRONT PANELS

DVD-S661 (U, K, A, L, P models)

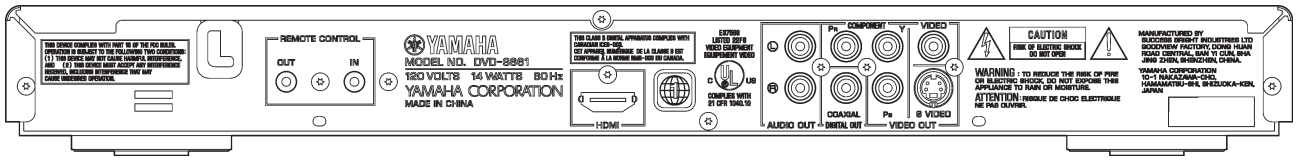


DV-S6160 (U model)

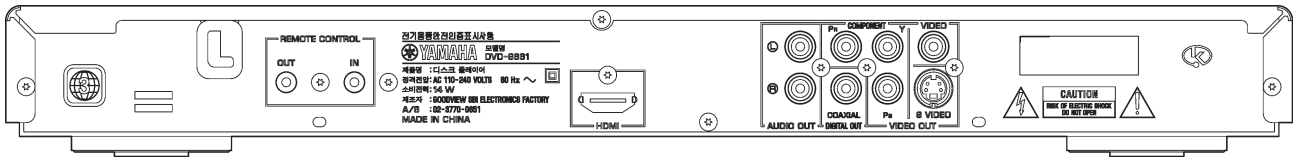


■ REAR PANELS

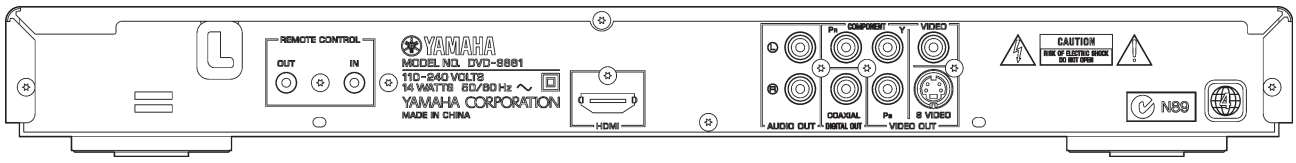
DVD-S661 (U model)



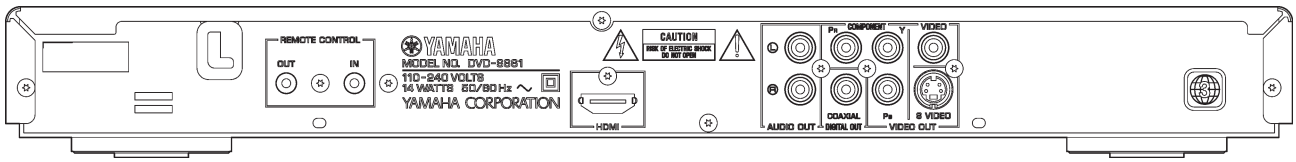
DVD-S661 (K model)



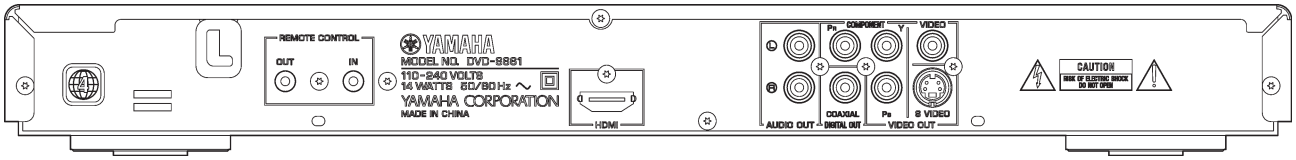
DVD-S661 (A model)



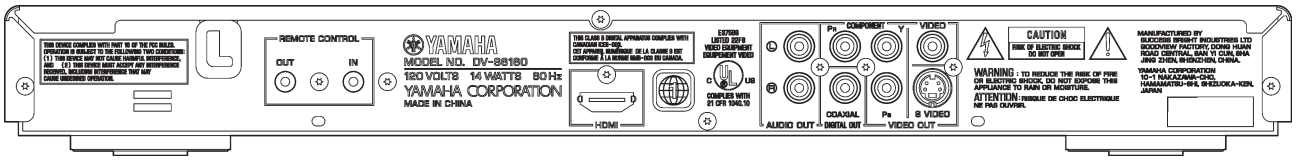
DVD-S661 (L model)



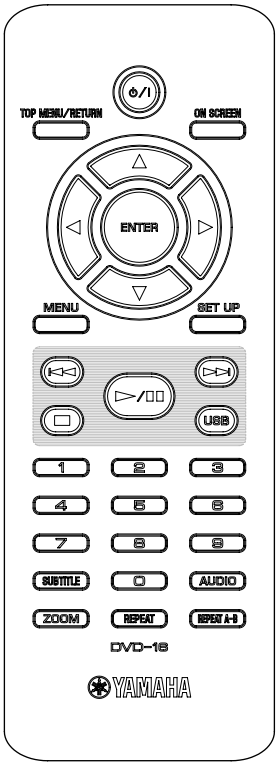
DVD-S661 (P model)



DV-S6160 (U model)



■ REMOTE CONTROL PANEL



■ SPECIFICATIONS

PLAYBACK SYSTEM

DVD Video, VR (Video Recording) format (DVD-RW)
DVD-R, DVD-RW, DVD-R DL
DVD+R, DVD+RW, DVD+R DL
Video CD, SVCD
CD
PICTURE CD
CD-R, CD-RW

MP3 (ISO 9660)	fs 32, 44.1, 48 kHz / 96, 128, 256, 320 kbps (Constant bit rate)
WMA	fs 44.1 kHz, 62 to 192 kbps / fs 48 kHz, 128 to 192 kbps (Constant bit rate)
DivX	
JPEG	3072 x 2048 dpi or less

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/PR: 0.7 Vpp into 75 ohms
HDMI upscaling	720 p, 1080 i

AUDIO FORMAT

Digital	
Dolby Digital, DTS, MPEG	Compressed digital
PCM	fs 44.1, 48, 96 kHz / 16, 20, 24 bits
Analog sound	Stereo

AUDIO PERFORMANCE

DA converter	24 bits	
Signal to noise (1 kHz)	105 dB	
Dynamic range (1 kHz)	97 dB	
DVD	fs 96 kHz	2 Hz to 44 kHz
	fs 48 kHz	2 Hz to 22 kHz
SVCD	fs 48 kHz	2 Hz to 22 kHz
	fs 44.1 kHz	2 Hz to 20 kHz
CD/VCD	fs 44.1 kHz	2 Hz to 20 kHz
Distortion and noise (1 kHz)	0.0035 %	

MULTIMEDIA (USB) APPLICATIONS

Connections	USB mass storage class device
Playback formats (USB device)	
MP3	fs 32, 44.1, 48 kHz / 96, 128, 256, 320 kbps (Constant bit rate)
WMA	fs 44.1 kHz, 62 to 192 kbps / fs 48 kHz, 128 to 192 kbps (Constant bit rate)
DivX	3 Mbps or less
JPEG	3072 x 2048 dpi or less
Supported USB devices (FAT16 or FAT32 format)	FLASH memory Card reader (up to 6 slots) Portable audio player External hard disk drive (80 GB or less)

TV STANDARD	(PAL/50 Hz)	(NTSC/60 Hz)
Number of lines	625	525
Playback	Multistandard	(PAL/NTSC)

CONNECTIONS

Video output	RCA/Phono x 1 (yellow)
S-video output	Mini DIN, 4 pins x 1
Component video output	
Y output	RCA/Phono x 1 (green)
PB output	RCA/Phono x 1 (blue)
PR output	RCA/Phono x 1 (red)
Audio output (L+R)	RCA/Phono x 1 pair (white/red)
Digital output	
Coaxial	RCA/Phono x 1 IEC60958 for CDDA, LPCM / IEC61937 for MPEG 1/2, Dolby Digital and DTS
HDMI (HDMI 1.0)	Type A x 1
USB	Type A x 1
Remote control	
Input	3.5 mm mini jack x 1
Output	3.5 mm mini jack x 1

GENERAL

Dimensions (W x H x D)	435 x 51 x 318 mm (17-1/8" x 2" x 12-1/2")
Weight	Approx. 2.6 Kg (5 lbs. 12 oz)
Finish	
DVD-S661	Black color (U, A, P models) Titanium color (U, K, L models) Silver color (U model)
DV-S6160	Black color (U model) Silver color (U model)
Power supply	AC 120 V, 60 Hz (U model) AC 110-240 V, 60 Hz (K model) AC 110-240 V, 50/60 Hz (A, L, P models)
Power consumption	Approx. 14 W
Standby power consumption	Less than 1 W

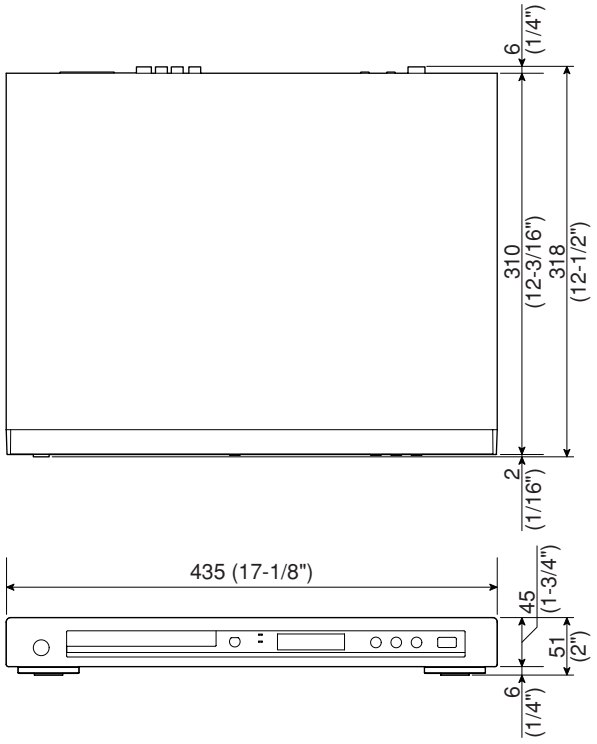
ACCESSORIES

Remote control x 1
Battery (AAA, R03, UM-4) x 2
Audio / video cable (1.5 m) x 1

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

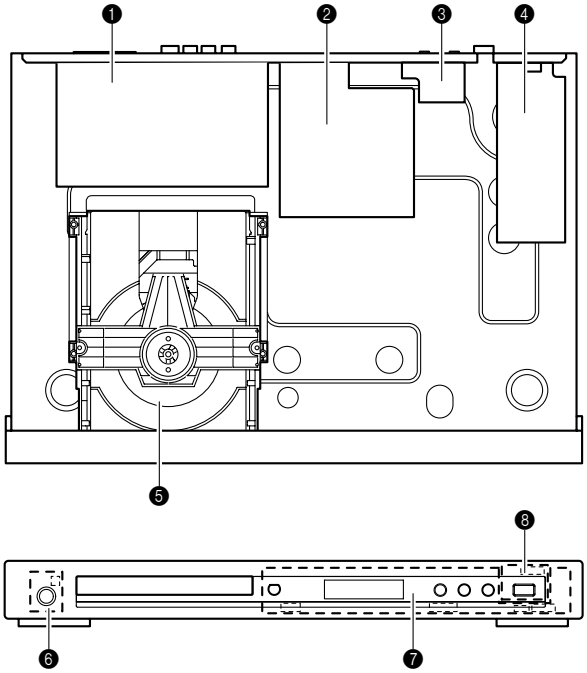
U ..... U.S.A. model
K ..... Korean model
A ..... Australian model
L ..... Singapore model
P ..... South America model

- **DIMENSIONS**



Unit: mm (inch)

■ INTERNAL VIEW



❶ AV P.C.B.
❷ MONO P.C.B.
❸ FRONT (4) P.C.B.
❹ Power Supply Unit
❺ DVD Mechanism
❻ FRONT (2) P.C.B.
❼ FRONT (1) P.C.B.
❽ FRONT (3) P.C.B.

■ REPAIR NOTES

None of the components of the following unit can be supplied separately.
Each unit must be replaced as a whole in case of a failure.

- DVD Mechanism
- MONO P.C.B.
- FRONT P.C.B.
- AV P.C.B.
- Power Supply Unit

■ TRADE MODE

This unit provides TRADE mode which prevents the tray from opening even when the “OPEN/CLOSE” key is pressed.

- **Activating TRADE mode**
  The power to the main unit should be turned on before activating the TRADE mode.
  1. Press the “OPEN/CLOSE” key to open the tray. (Fig. 1)
  2. Press the “2”, “5” and “9” keys on the remote control in that order. (Fig. 2)
  3. “TRA ON” is displayed and TRADE mode is activated. About 2 seconds later, the tray is closed automatically. (Fig. 3)

Notes) • After activating TRADE mode, it is not possible to operate keys of the main unit as usual except the following key.
“STANDBY/ON” key (Turn on the power only)
But operation with the remote control is available as usual.
• After TRADE mode is activated, initial settings for repeat reproduction of this unit are as follows.
DVD : RPT TT (repeat title)
VCD/SVCD/CD : RPT ALL (repeat all)

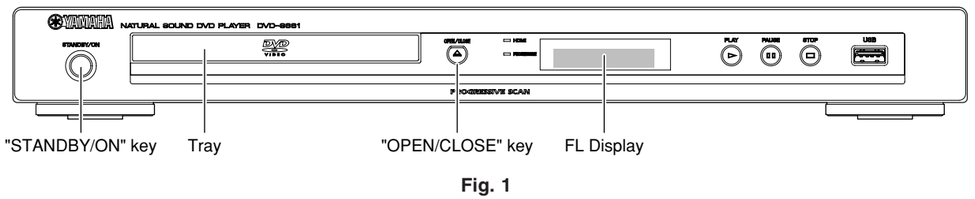


Fig. 1

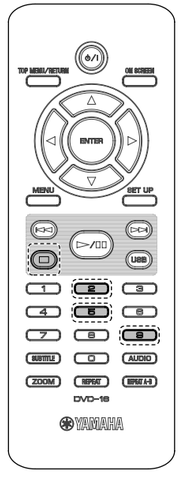


Fig. 2

TRADE mode display

Enter

Fig. 3

Cancel

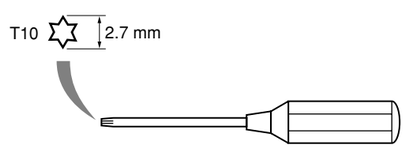
Fig. 4

- **Canceling TRADE mode**
  The power to the main unit should be turned on before canceling TRADE mode.
  1. Press and hold the “STOP” key on the remote control. (Fig. 2)
     The tray opens after about 2 second.
  2. Press the “2”, “5” and “9” keys on the remote control in that order. (Fig. 2)
  3. “TRA OFF” is displayed and TRADE mode is cancelled. About 2 seconds later, the tray is closed automatically. (Fig. 4)

■ DISASSEMBLY PROCEDURES

See REPLACEMENT PARTS LIST for item numbers.

When disassembling, use T10 TORX screwdriver as shown below.



Mounting ↕ **Dismounting**

Top Cover [240]
→ Remove 5 screws [250] (2 on sides and 3 on rear side).
→ Lift cover from rear side to remove.

Front Panel [101]
→ Remove 4 cables connections. [1105] [1205] [CN3] [1301]
→ Open tray. (Fig. 2)
→ Unlock tray lid and close tray.
→ Remove 2 screws [251] (Front panel to frame).
→ Unlock front panel by releasing successively 4 snaps (2 on sides and 2 on bottom side).

DVD Mechanism [1300-1]
→ Solder the lands of the optical pick up. (Fig. 3)
→ Remove 3 cable connections [1101] [1102] [1103].
→ Open tray. (Fig. 2)
→ Unlock tray cover ass'y and close tray.
→ Remove 4 screws (DVD mechanism to frame).
→ Lift DVD mechanism up slightly and move it backward to remove.

MONO P.C.B. [1003]
→ Solder the lands of the optical pick up. (Fig. 3)
→ Remove 7 cable connections [1101] [1102] [1103] [1105] [1201 (MONO P.C.B.)] [1205] [1207].
→ Remove 3 screws [256] (P.C.B. to frame).
→ Remove screw [260] (P.C.B. to rear panel).
→ Dismount P.C.B..

Power Supply Unit [1005]
→ Remove 3 cable connections [CN101] [CN1] [CN3].
→ Remove 2 screws [256] (P.C.B. to frame).
→ Release 2 locking spacers (P.C.B. to frame).
→ Dismount power supply unit.

FRONT (3) P.C.B. [1001 (3)]
→ Remove 2 screws [260] (P.C.B. to front panel).
→ Dismount P.C.B..

FRONT (1) P.C.B. [1001 (1)]
→ Remove 4 screws [260] (P.C.B. to front panel).
→ Dismount P.C.B..

FRONT (2) P.C.B. [1001 (2)]
→ Remove 2 screws [260] (P.C.B. to front panel).
→ Dismount P.C.B..
→ Remove cable connection [1200 (FRONT P.C.B.)].

AV P.C.B. [1002]
→ Remove 3 cable connections [1100] [1200 (AV P.C.B.)] [1201 (AV P.C.B.)].
→ Remove 3 screws [260] (P.C.B. to rear panel).
→ Release 2 locking spacers (P.C.B. to frame).
→ Dismount P.C.B..

FRONT (4) P.C.B. [1001 (4)]
→ Remove cable connection [1301].
→ Remove 2 screws [260] (P.C.B. to rear panel).
→ Dismount P.C.B..

● Cable connections

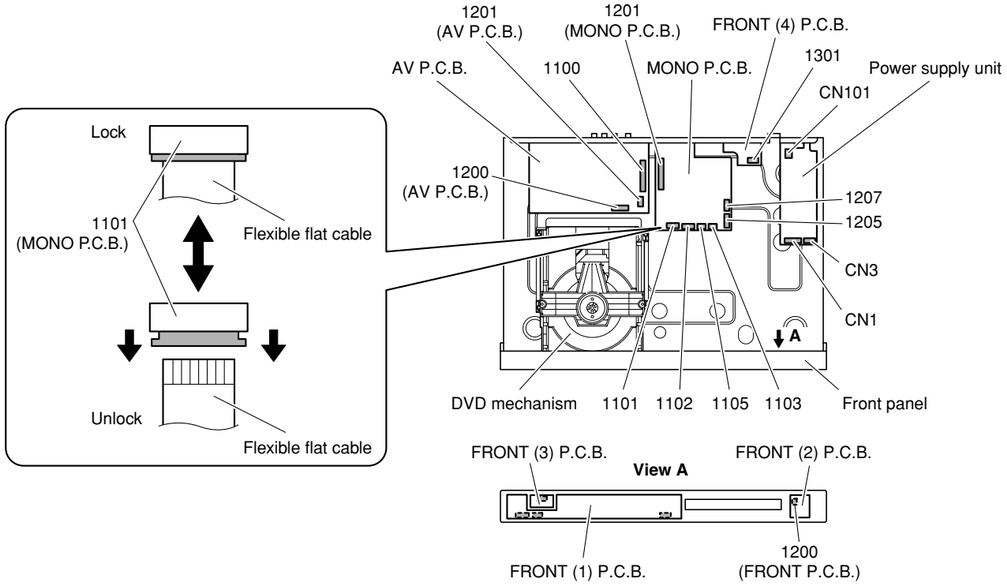


Fig. 1

● How to manually eject the tray

a. Move the slider in the direction indicated with a flatblade screwdriver until the tray is ejected.
b. Gently pull the tray out.

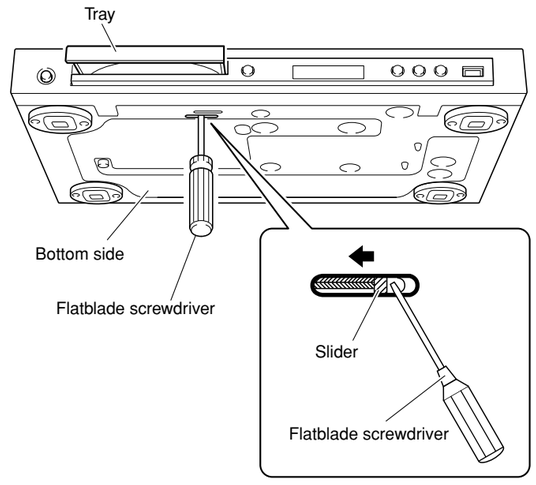


Fig. 2

● Preventive measure for laser diode from electrostatic breakdown

When replacing the MONO P.C.B. or DVD mechanism, solder between lands of the optical pick up P.C.B. to protect the laser diode against electrostatic breakdown.

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.

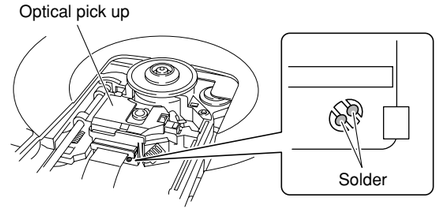


Fig. 3

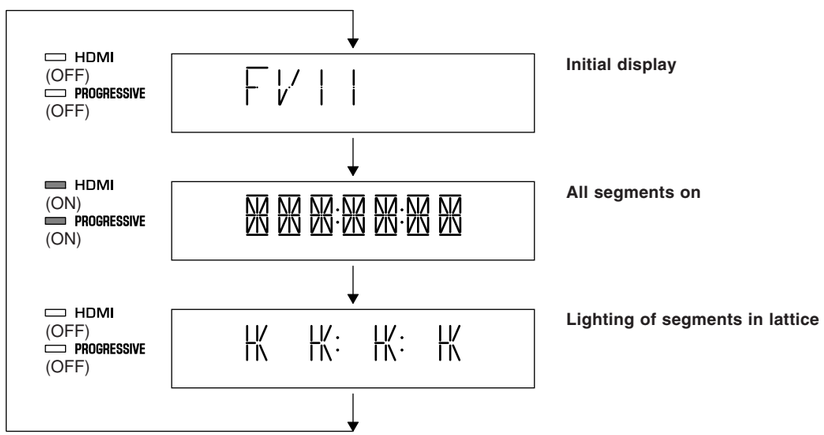
■ TEST MODE

• Starting Test Mode

a. Connect the power cable to the AC power outlet.
b. Press the “STANDBY/ON” key while simultaneously pressing “PAUSE” and “STOP” keys of the main unit.
   At this time, keep pressing “PAUSE” and “STOP” keys for 8 seconds or longer.
c. The “FV xx” (firmware version) is displayed.

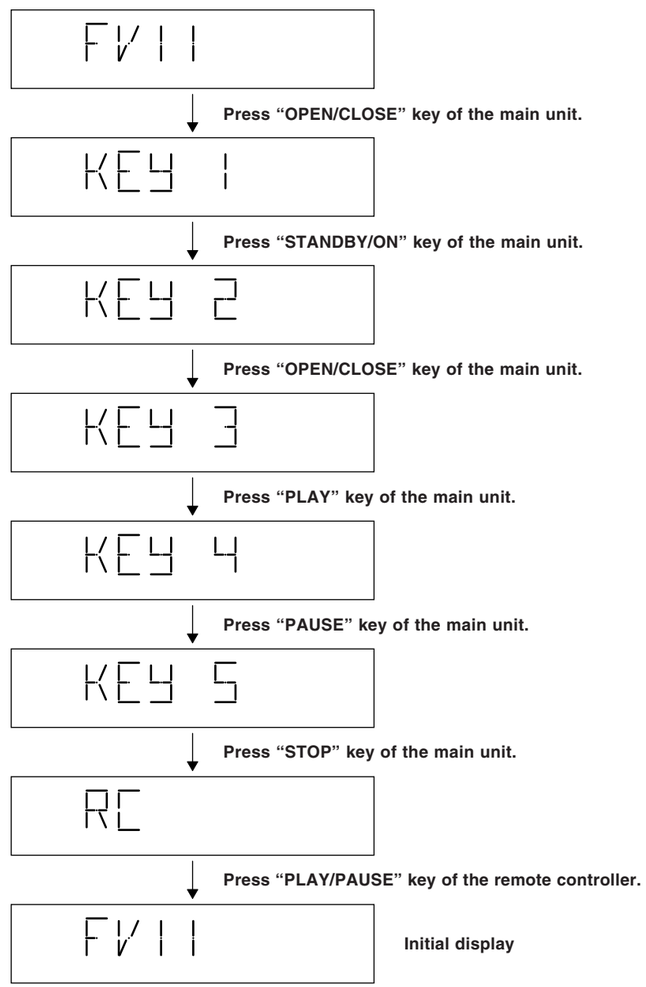
• Display Test

The display condition varies as shown below according to the “PLAY” key of the main unit.



• Panel Key Test

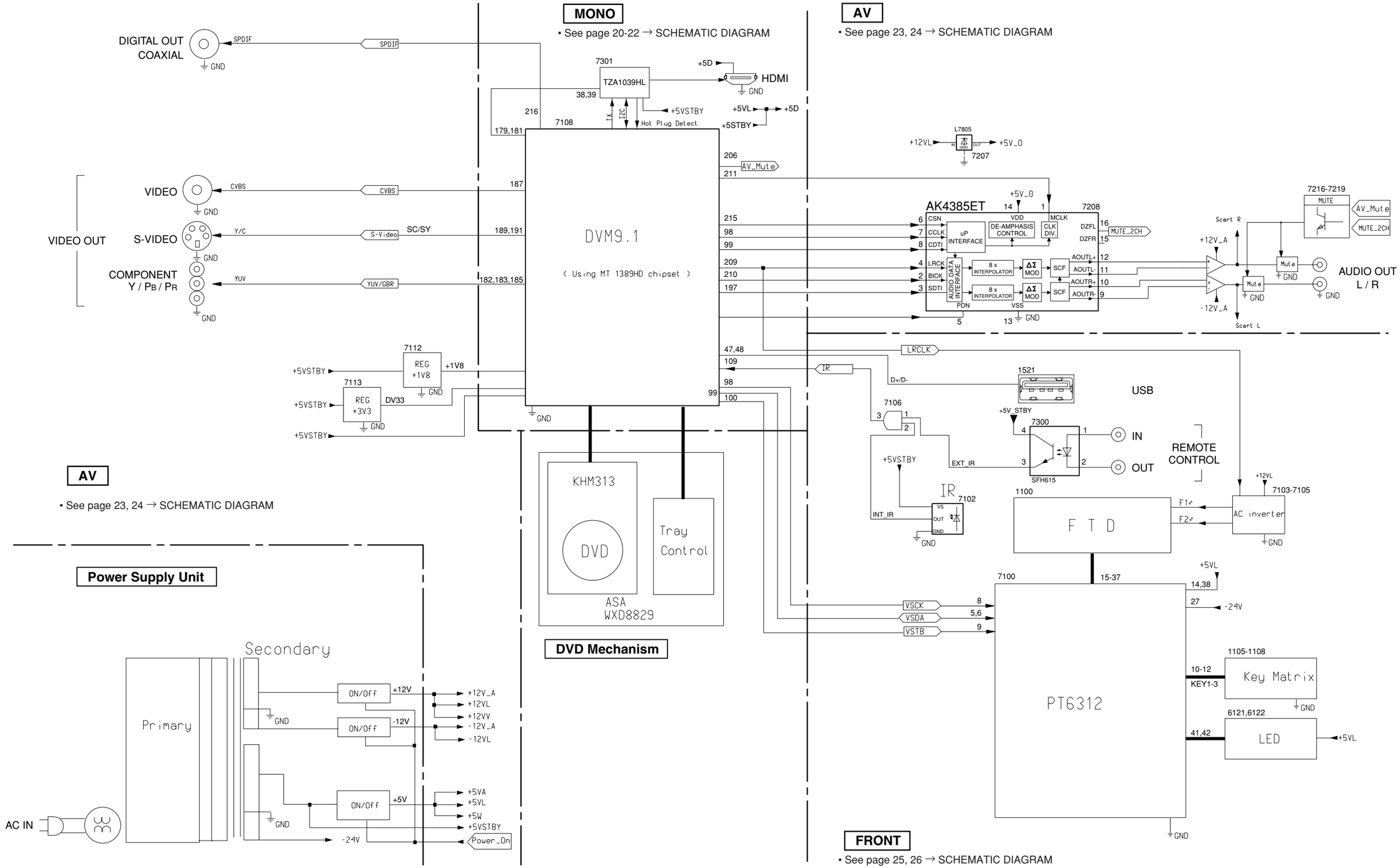
The display changes as shown below as the specified key is pressed.



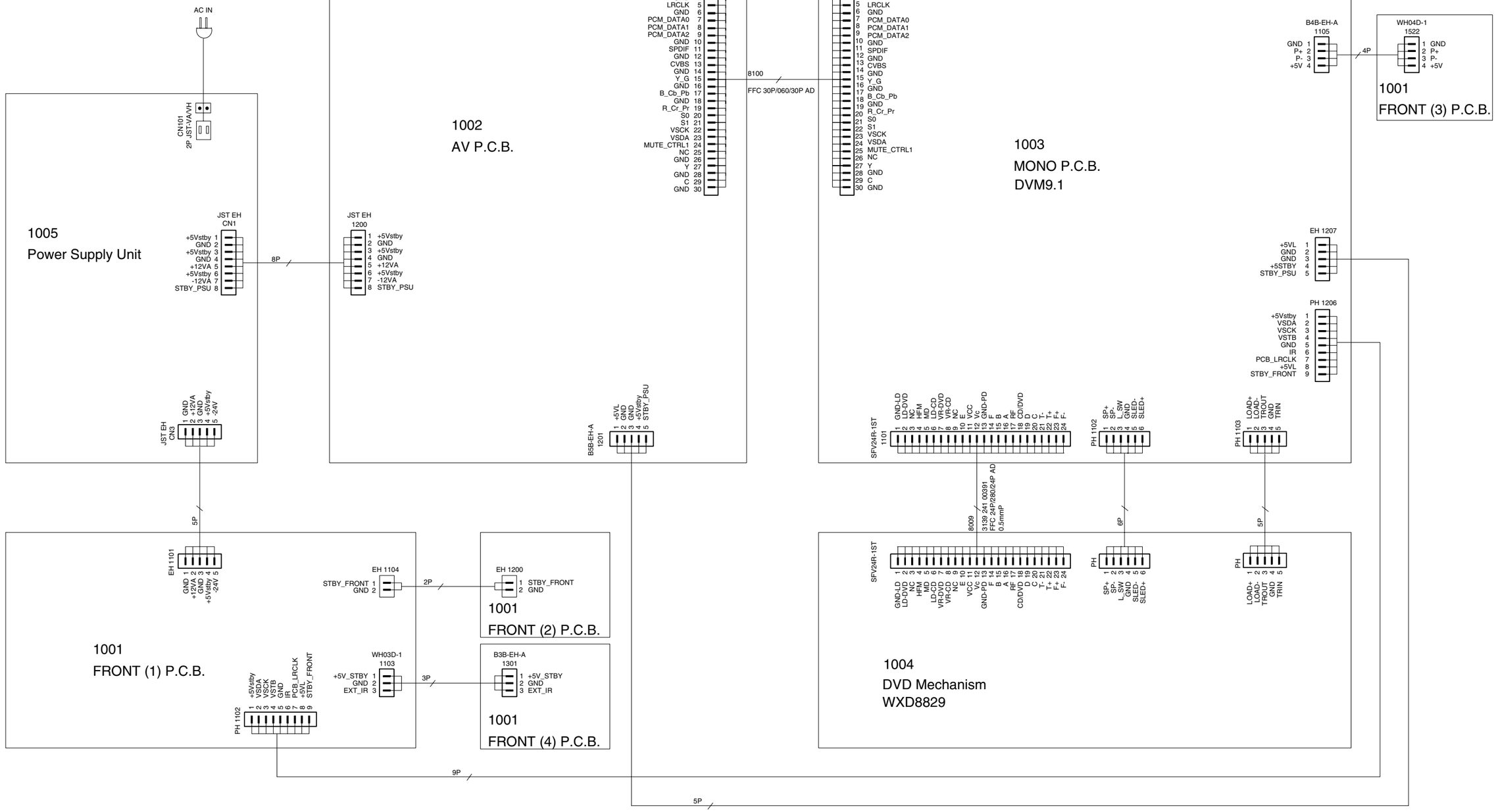
• Canceling Test Mode

Disconnect the power cable from the AC power outlet.

■ BLOCK DIAGRAM



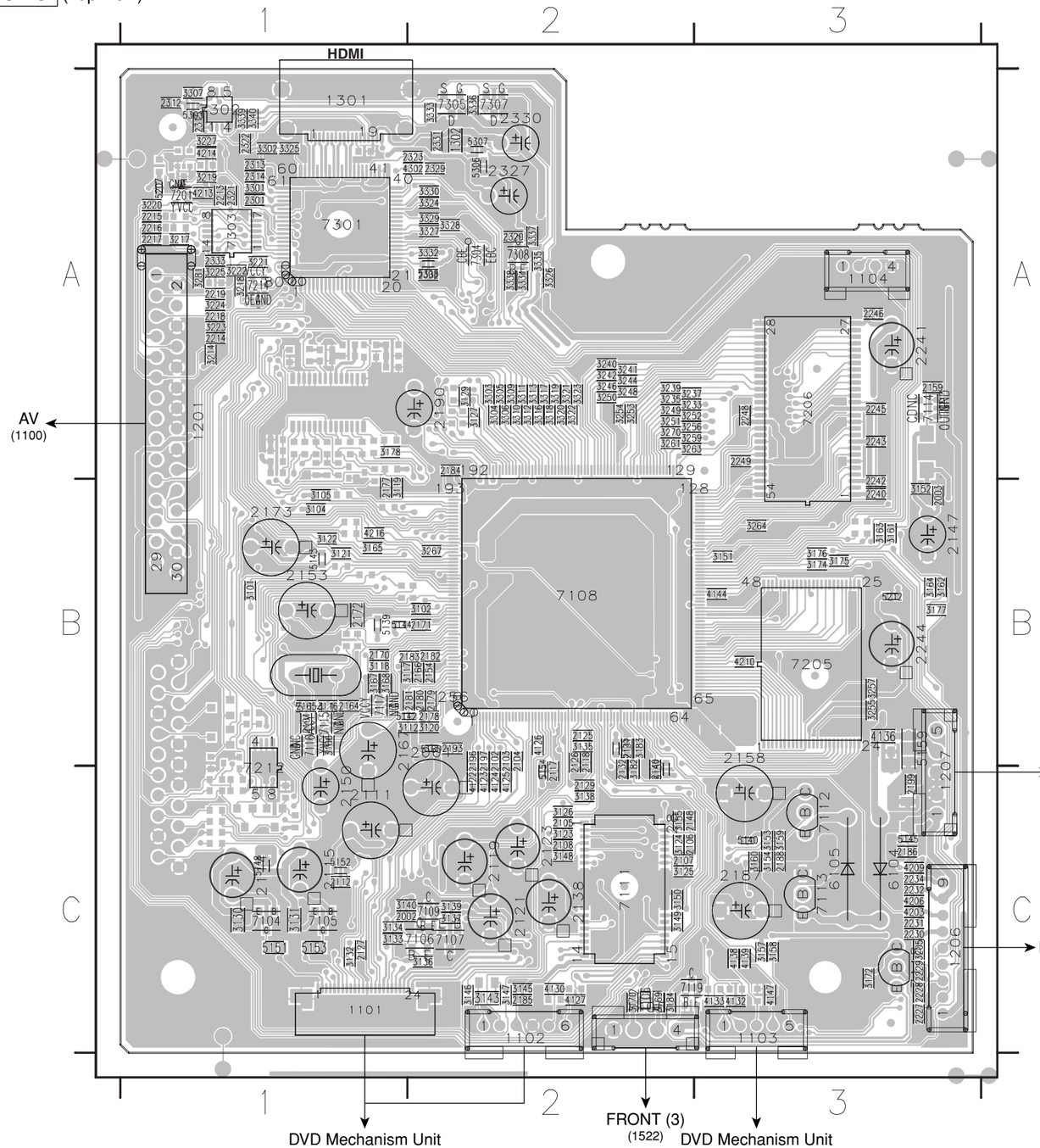
■ WIRING DIAGRAM



■ PRINTED CIRCUIT BOARDS

FOR INFORMATION ONLY (COMPONENT PARTS NOT AVAILABLE)

MONO (Top view)



The first digit of a component indicates the component type.

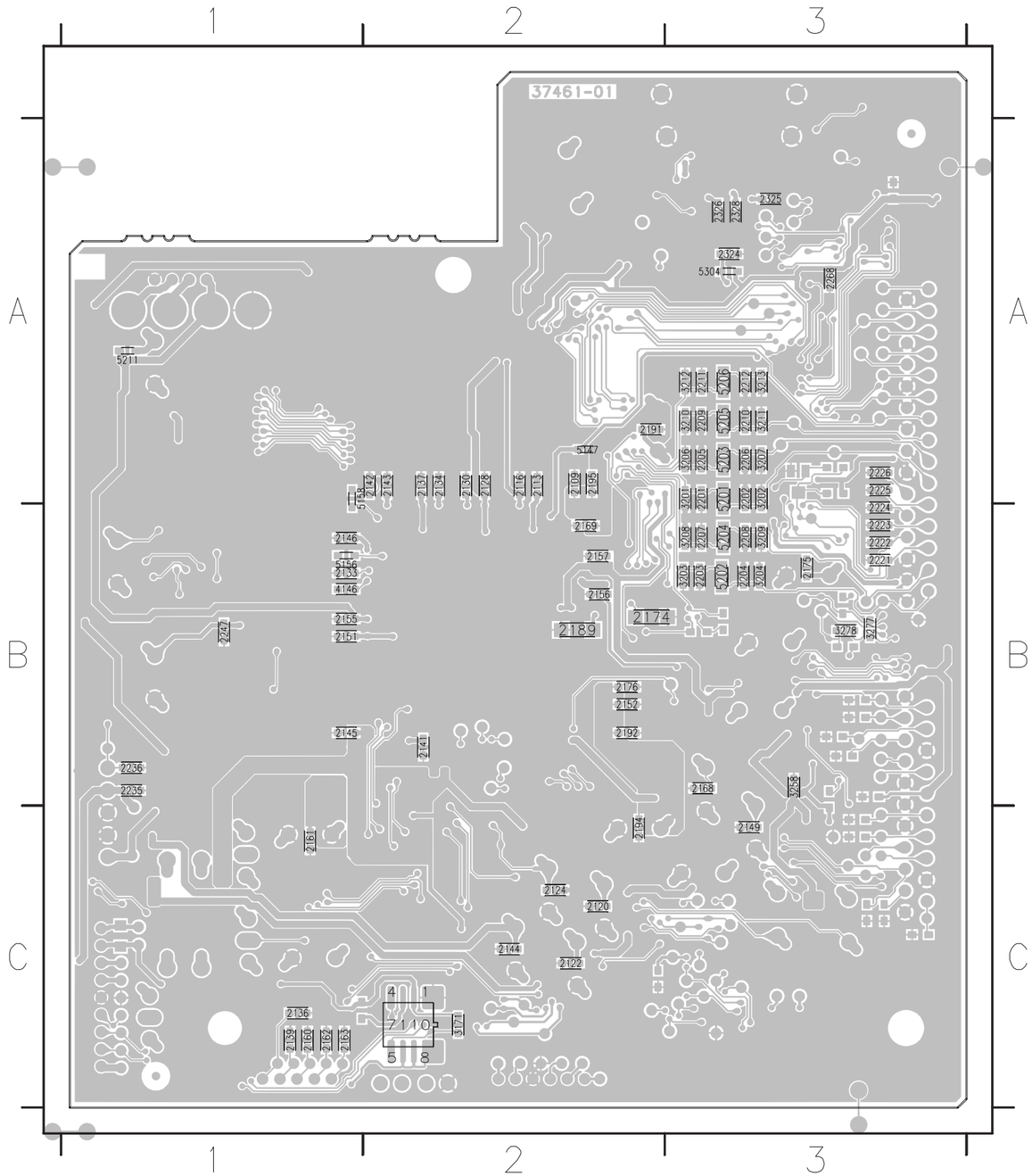
1xxx : Connector 3xxx : Resistor 5xxx : Coil 7xxx : IC, Transistor, FET
2xxx : Capacitor 4xxx : SMD jumper 6xxx : Diode 9xxx : Wire jumper

1101 C1	2183 B2	3124 C2	3227 A1	3340 A1	7201 A1
1102 C2	2184 A2	3125 C2	3233 A2	4122 C2	7205 B3
1103 C3	2185 C2	3126 C2	3235 A2	4123 C2	7206 A3
1104 A3	2186 C3	3127 A2	3237 A2	4124 C2	7212 C1
1105 C2	2187 C3	3129 A2	3239 A2	4125 C2	7214 A1
1106 C2	2188 C3	3130 C1	3240 A2	4126 B2	7301 A1
1201 A1	2190 A2	3131 C1	3241 A2	4127 C2	7302 A1
1202 A1	2193 B2	3132 C1	3242 A2	4130 C2	7304 A2
1205 C3	2196 B2	3133 C1	3244 A2	4132 C3	7305 A2
1206 C3	2197 B2	3134 C1	3246 A2	4133 C3	7307 A2
1207 C3	2199 C3	3135 B2	3248 A2	4136 B3	7308 A2
1301 A1	2213 A1	3136 C2	3249 A2	4138 C3	
1302 A2	2214 A1	3137 C2	3250 A2	4139 C3	
2001 B2	2215 A1	3138 C2	3251 A2	4144 B3	
2002 C1	2216 A1	3139 C2	3252 A2	4147 C3	
2003 B3	2217 A1	3140 C1	3253 A2	4203 C3	
2101 B1	2218 A1	3143 C2	3254 A2	4206 C3	
2102 B2	2219 A1	3145 C2	3255 B3	4209 C3	
2103 B2	2227 C3	3146 C2	3256 A2	4210 B3	
2104 B2	2228 C3	3147 C2	3257 B3	4213 A1	
2105 C2	2229 C3	3148 C2	3259 A2	4214 A1	
2106 C2	2230 C3	3149 C2	3261 A2	4216 B1	
2107 C2	2231 C3	3150 C2	3263 A2	4302 A2	
2108 C2	2232 C3	3151 B3	3264 B3	5139 B1	
2111 C1	2234 C3	3152 B3	3267 B2	5140 C3	
2112 C1	2240 B3	3153 C3	3270 A2	5141 B1	
2114 C1	2241 A3	3154 C3	3281 A1	5142 B1	
2115 C1	2242 B3	3155 C2	3301 A1	5143 B1	
2117 C2	2243 A3	3157 C3	3302 A1	5144 B1	
2118 B2	2244 B3	3158 C3	3303 A2	5145 C3	
2119 C2	2245 A3	3159 C3	3304 A2	5148 C1	
2121 C2	2246 A3	3160 C3	3305 A2	5151 C1	
2123 C2	2248 A3	3161 B3	3306 A2	5152 C1	
2125 B2	2249 A3	3162 B3	3307 A1	5153 C1	
2126 B2	2301 A1	3163 B3	3309 A2	5154 C2	
2127 C1	2312 A1	3164 B3	3310 A2	5155 B2	
2129 C2	2313 A1	3165 B1	3311 A2	5157 C2	
2131 B2	2314 A1	3166 B1	3312 A2	5159 B3	
2132 C2	2315 A1	3167 B1	3313 A2	5160 B2	
2138 C2	2320 A2	3168 B1	3316 A2	5207 A1	
2140 C2	2321 A1	3169 C2	3317 A2	5212 B3	
2147 B3	2322 A1	3170 C2	3318 A2	5303 A1	
2148 C2	2323 A2	3172 C3	3319 A2	5306 A2	
2150 C1	2327 A2	3174 B3	3320 A2	5307 A2	
2153 B1	2329 A2	3175 B3	3321 A2	5308 A2	
2154 B2	2330 A2	3176 B3	3322 A2	6104 C3	
2158 B3	2331 A2	3177 B3	3323 A2	6105 C3	
2159 A3	2332 A2	3178 A1	3324 A2	7104 C1	
2164 B1	2333 A1	3182 C2	3325 A1	7105 C1	
2165 B1	3101 B1	3183 B2	3326 A2	7106 C2	
2166 B2	3102 B2	3184 C2	3327 A2	7107 C2	
2167 B1	3104 B1	3205 C3	3328 A2	7108 B2	
2170 B1	3105 B1	3214 A1	3329 A2	7109 C2	
2171 B2	3112 B2	3217 A1	3330 A2	7111 C2	
2172 B1	3116 B1	3218 A1	3331 A2	7112 C3	
2173 B1	3117 B1	3219 A1	3332 A2	7113 C3	
2177 B1	3118 B1	3220 A1	3333 A2	7114 A3	
2178 B2	3119 B1	3221 A1	3335 A2	7115 B1	
2179 B2	3120 B2	3222 A1	3336 A2	7116 B1	
2180 B2	3121 B1	3223 A1	3337 A2	7117 B1	
2181 B2	3122 B1	3224 A1	3338 A2	7118 C3	
2182 B2	3123 C2	3225 A1	3339 A1	7119 C2	

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

MONO (Bottom view)



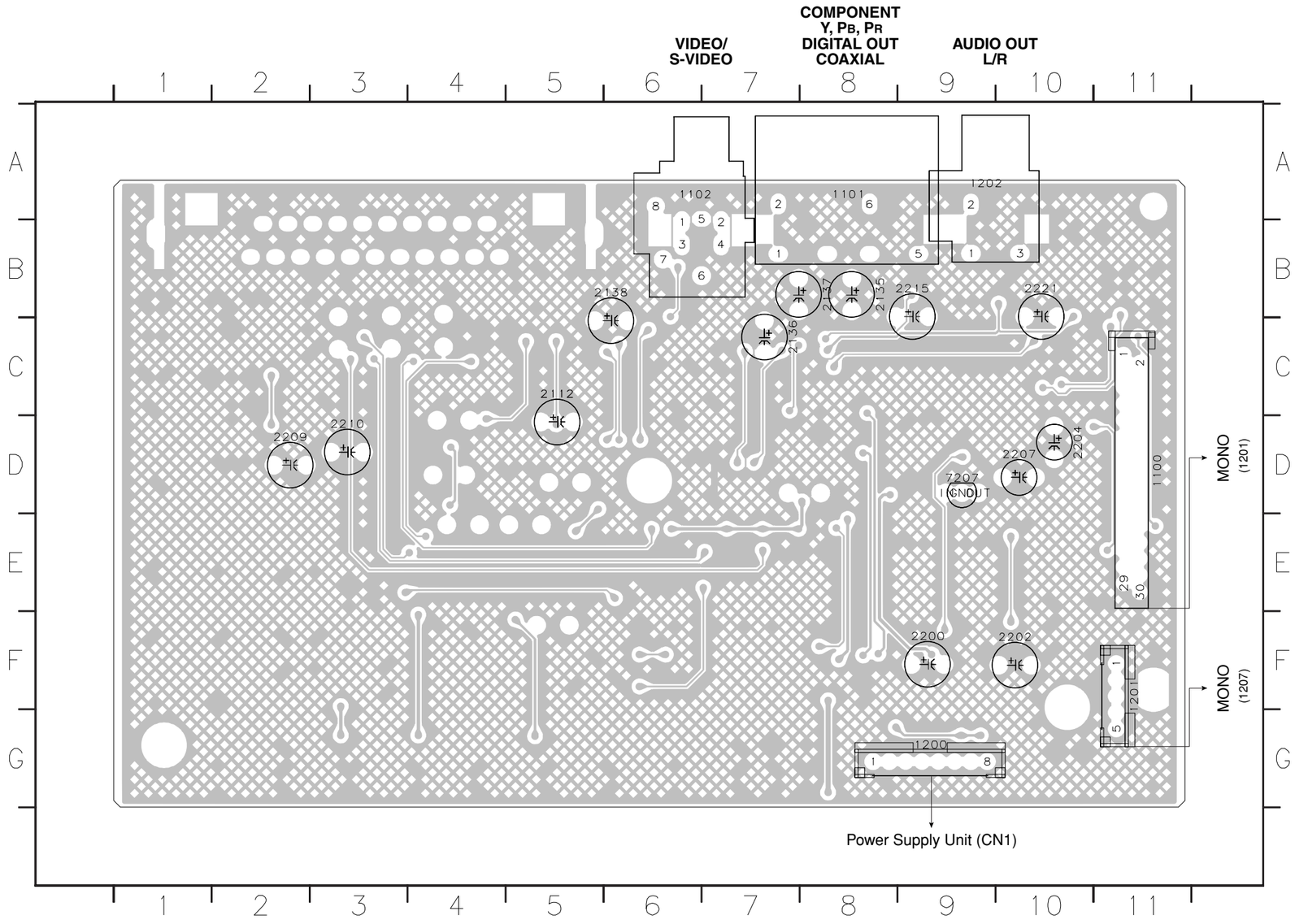
2109	A2	2325	A3
2113	A2	2326	A3
2116	A2	2328	A3
2120	C2	3171	C2
2122	C2	3201	A3
2124	C2	3202	A3
2128	A2	3203	B3
2130	A2	3204	B3
2133	B1	3206	A3
2134	A2	3207	A3
2136	C1	3208	B3
2137	A2	3209	B3
2139	C1	3210	A3
2141	B2	3211	A3
2142	A2	3212	A3
2143	A2	3213	A3
2144	C2	3258	B3
2145	B1	3277	B3
2146	B1	3278	B3
2149	C3	4146	B1
2151	B1	5147	A2
2152	B2	5156	B1
2155	B1	5158	A1
2156	B2	5201	A3
2157	B2	5202	B3
2160	C1	5203	A3
2161	C1	5204	B3
2162	C1	5205	A3
2163	C1	5206	A3
2168	B3	5211	A1
2169	B2	5304	A3
2174	B2	7110	C2
2175	B3		
2176	B2		
2189	B2		
2191	A2		
2192	B2		
2194	C2		
2195	A2		
2201	A3		
2202	A3		
2203	B3		
2204	B3		
2205	A3		
2206	A3		
2207	B3		
2208	B3		
2209	A3		
2210	A3		
2211	A3		
2212	A3		
2221	B3		
2222	B3		
2223	B3		
2224	B3		
2225	A3		
2226	A3		
2235	B1		
2236	B1		
2247	B1		
2268	A3		
2324	A3		

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 (Top view)

1100 D11
1101 A8
1102 A6
1200 G9
1202 A9
2112 C5
2135 B8
2136 C7
2137 B8
2138 B6
2200 F9
2202 F10
2204 D10
2207 D10
2209 D2
2210 D3
2215 B9
2221 B10
7207 D9

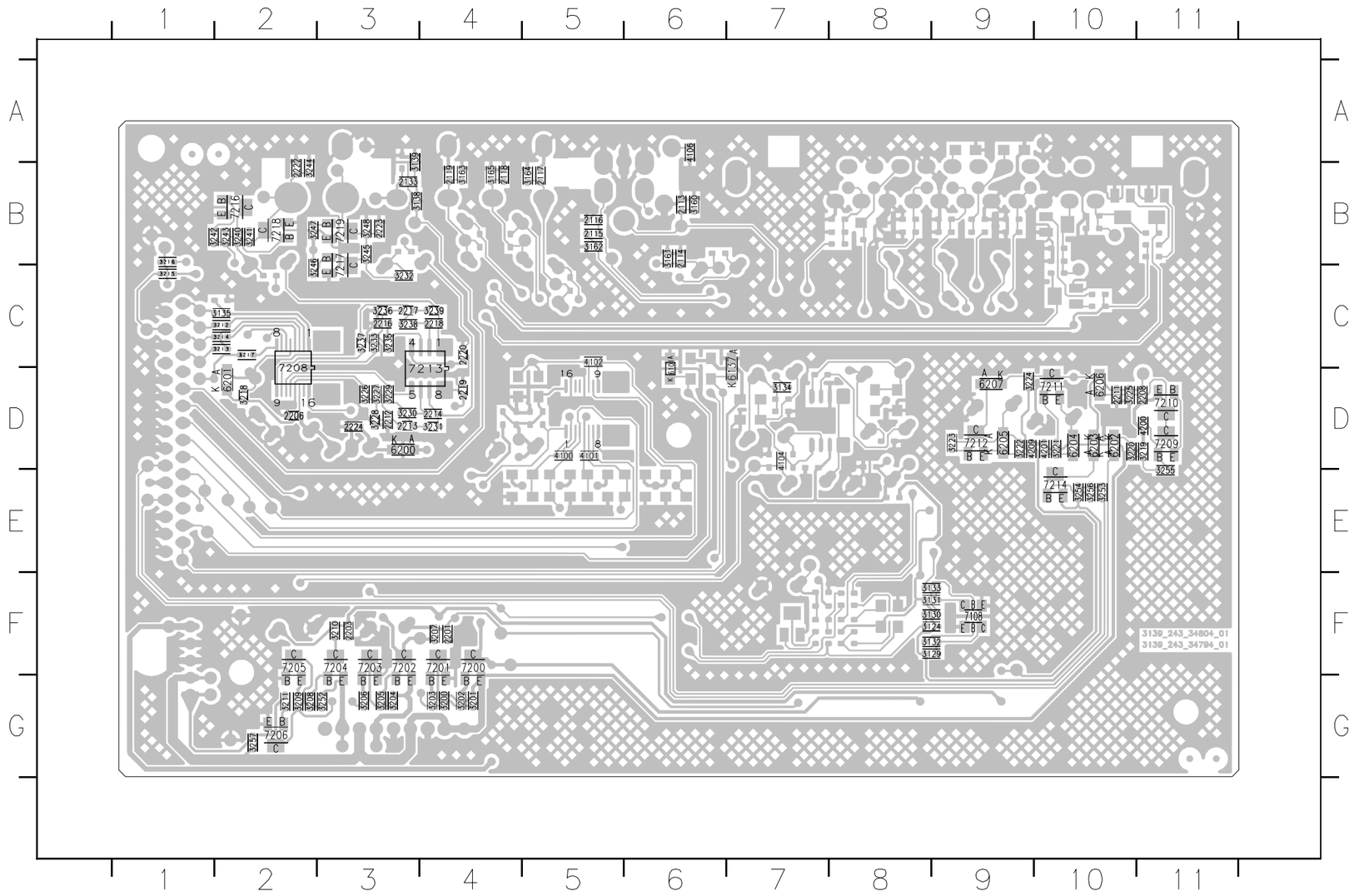


The first digit of a component indicates the component type.

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

AV (Bottom view)

2113 B6	2218 C4	3163 B4	3215 C1	3233 C3	3255 E11	6205 D9	7216 B2
2114 B6	2219 D4	3164 B5	3216 B1	3235 C3	3256 E10	6206 D10	7217 C3
2115 B5	2220 C4	3165 B4	3217 C2	3236 C3	3257 G2	6207 D9	7218 B2
2116 B5	2222 B2	3200 G4	3218 D2	3237 C3	4100 D5	7108 F9	7219 B3
2117 B5	2223 B3	3201 G4	3219 D11	3238 C3	4101 D5	7200 F4	
2118 B4	2224 D3	3202 G4	3220 D10	3239 C4	4102 C5	7201 F4	
2119 B4	3129 F8	3203 G4	3221 D10	3240 B2	4104 D7	7202 F3	
2133 B3	3130 F8	3204 G3	3222 D9	3241 B2	4106 A6	7203 F3	
2201 F4	3131 F8	3205 G3	3223 D9	3242 B1	4200 D11	7204 F3	
2203 F3	3132 F8	3206 G3	3224 D9	3243 B2	4201 D10	7205 F2	
2206 D2	3133 F8	3207 F4	3225 D10	3244 B2	4209 D9	7206 G2	
2208 D11	3134 D7	3208 G2	3226 D3	3245 B3	6101 C6	7208 D2	
2211 D10	3135 C2	3209 G2	3227 D3	3246 C2	6137 D7	7209 D11	
2212 D3	3138 B3	3210 F3	3228 D3	3247 B2	6200 D3	7210 D11	
2213 D3	3139 A3	3211 G2	3229 D3	3248 B3	6201 D2	7211 D10	
2214 D4	3160 B6	3212 C2	3230 D3	3252 G3	6202 D10	7212 D9	
2216 C3	3161 B6	3213 C2	3231 D4	3253 E10	6203 D10	7213 D4	
2217 C3	3162 B5	3214 C2	3232 C3	3254 E10	6204 D10	7214 E10	

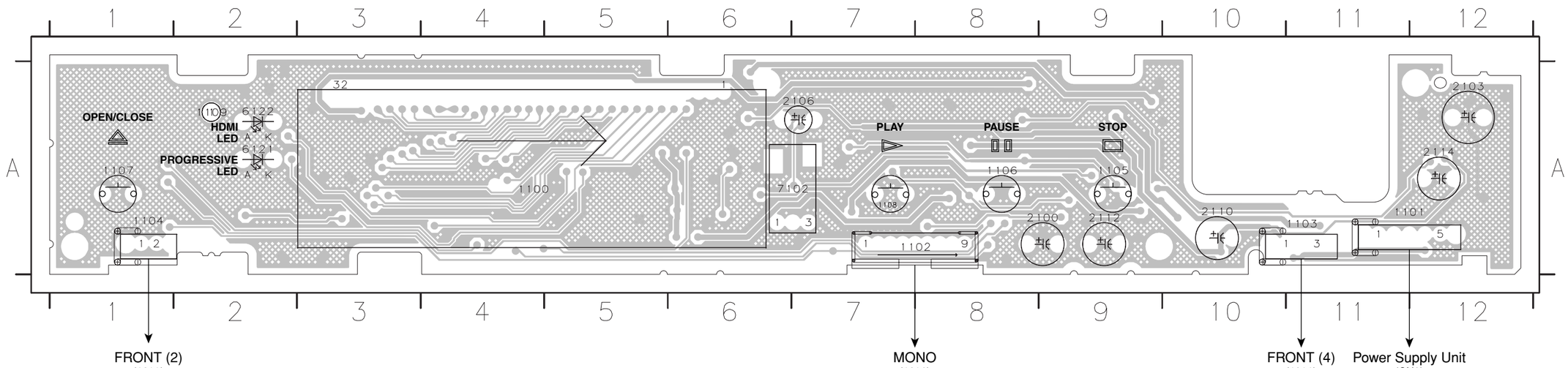


The first digit of a component indicates the component type.

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

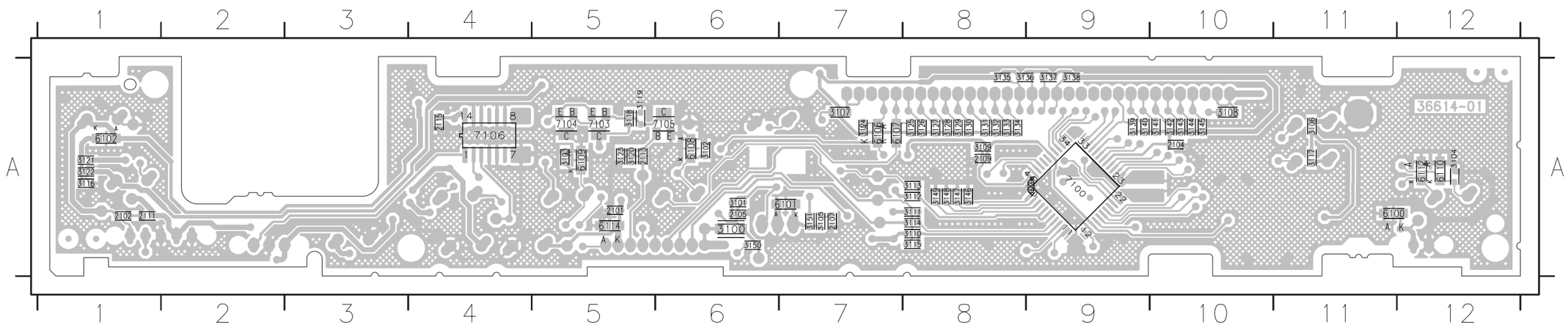
FRONT (1) (Top view)

1100 A4 1101 A11 1102 A7 1103 A11 1104 A1 1105 A9 1106 A8 1107 A1 1108 A7 1109 A2 2100 A9 2103 A12 2106 A7 2110 A10 2112 A9 2114 A12 6121 A2 6122 A2 7102 A7



FRONT (1) (Bottom view)

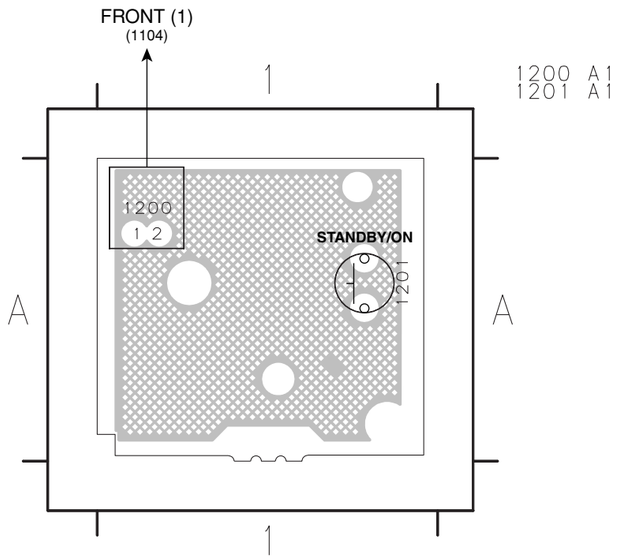
2101 A5 2102 A1 2104 A10 2105 A6 2107 A7 2109 A8 2111 A1 2113 A5 2115 A4 3100 A6 3101 A6 3102 A6 3103 A5 3104 A12 3105 A7 3106 A11 3107 A7 3108 A10 3109 A8 3110 A8 3111 A8 3112 A8 3113 A8 3114 A8 3115 A8 3116 A1 3117 A11 3118 A5 3119 A5 3120 A5 3121 A1 3122 A1 3123 A5 3124 A7 3125 A8 3126 A8 3127 A8 3128 A8 3129 A8 3130 A8 3131 A8 3132 A8 3133 A8 3134 A8 3135 A8 3136 A8 3137 A9 3138 A9 3139 A9 3140 A9 3141 A10 3142 A10 3143 A10 3144 A10 3145 A10 3146 A8 3147 A8 3148 A8 3149 A8 3150 A6 3151 A7 6100 A11 6101 A7 6102 A1 6106 A7 6107 A7 6108 A6 6109 A5 6110 A12 6112 A12 6114 A5 7100 A9 7103 A5 7104 A5 7105 A6 7106 A4



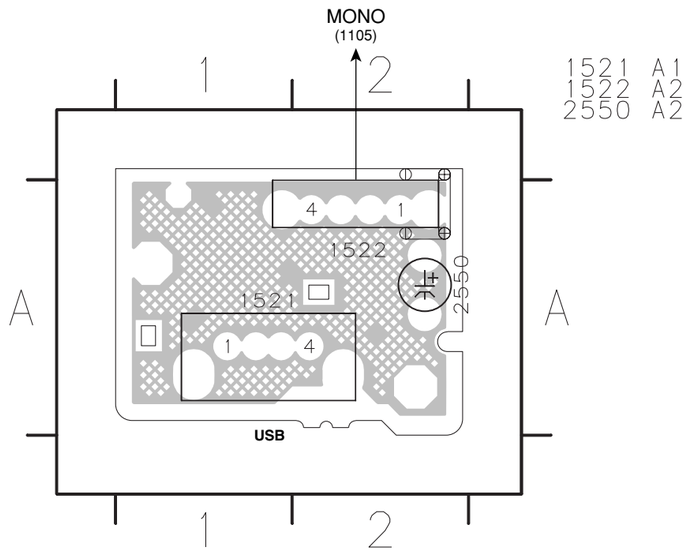
The first digit of a component indicates the component type.

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

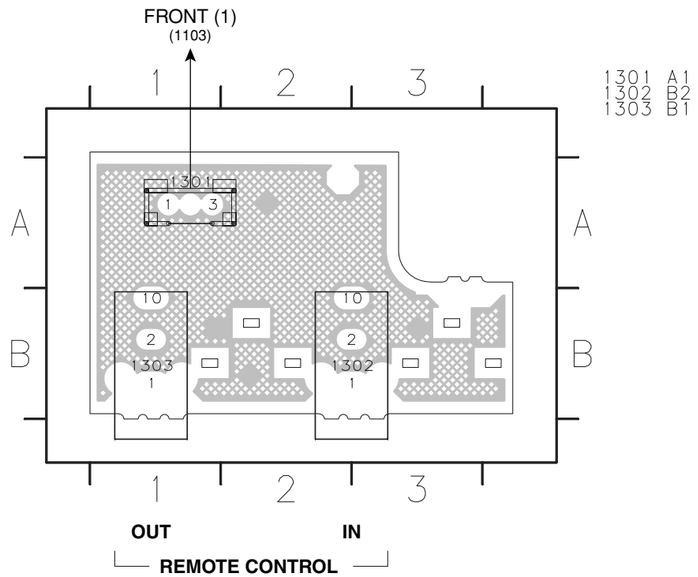
FRONT (2) (Top view)



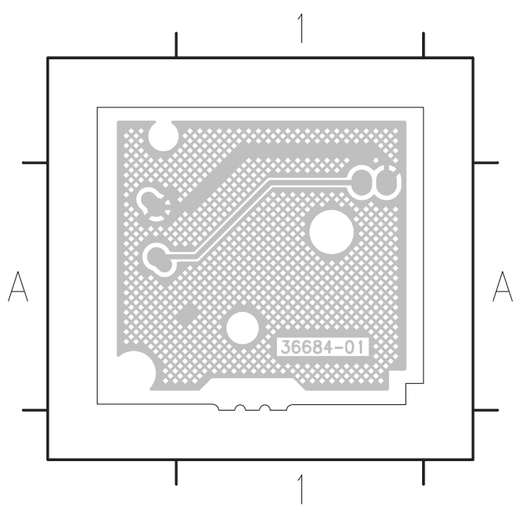
FRONT (3) (Top view)



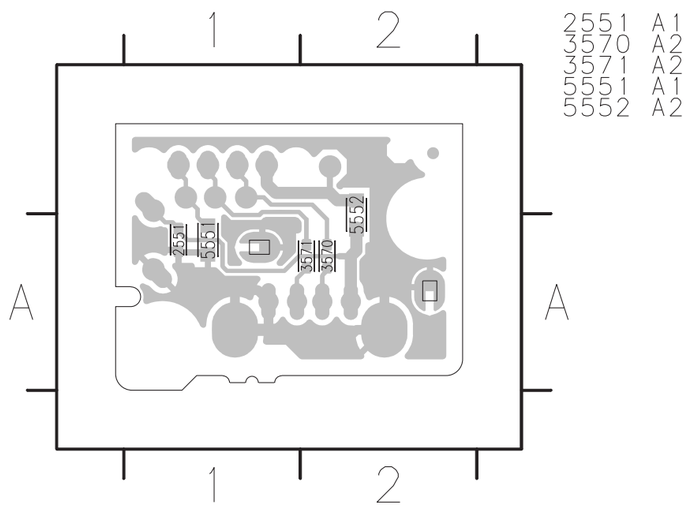
FRONT (4) (Top view)



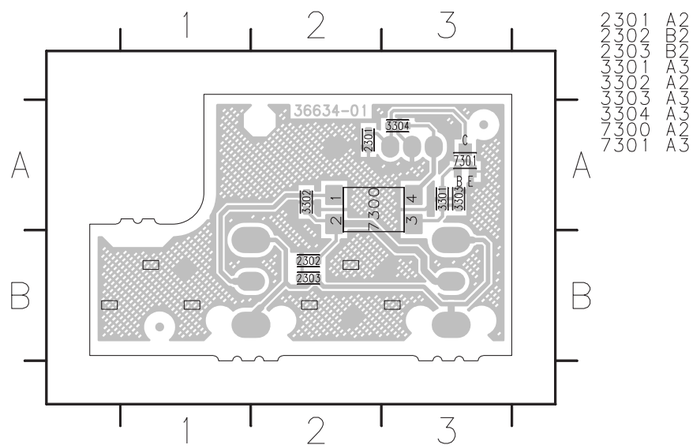
FRONT (2) (Bottom view)



FRONT (3) (Bottom view)



FRONT (4) (Bottom view)



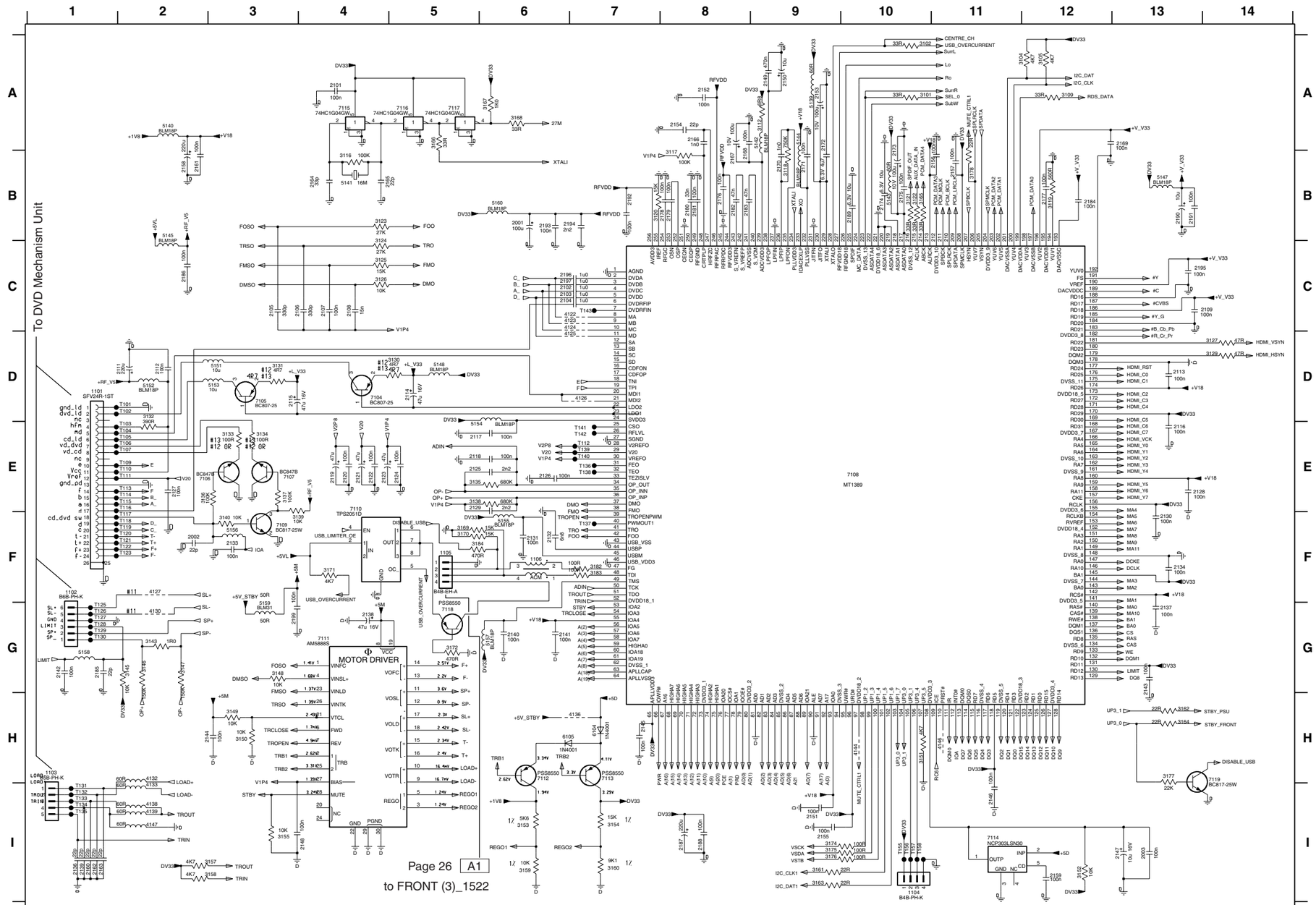
■ SCHEMATIC DIAGRAMS

FOR INFORMATION ONLY (NO COMPONENT PARTS NOT AVAILABLE)

MONO 1/3

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



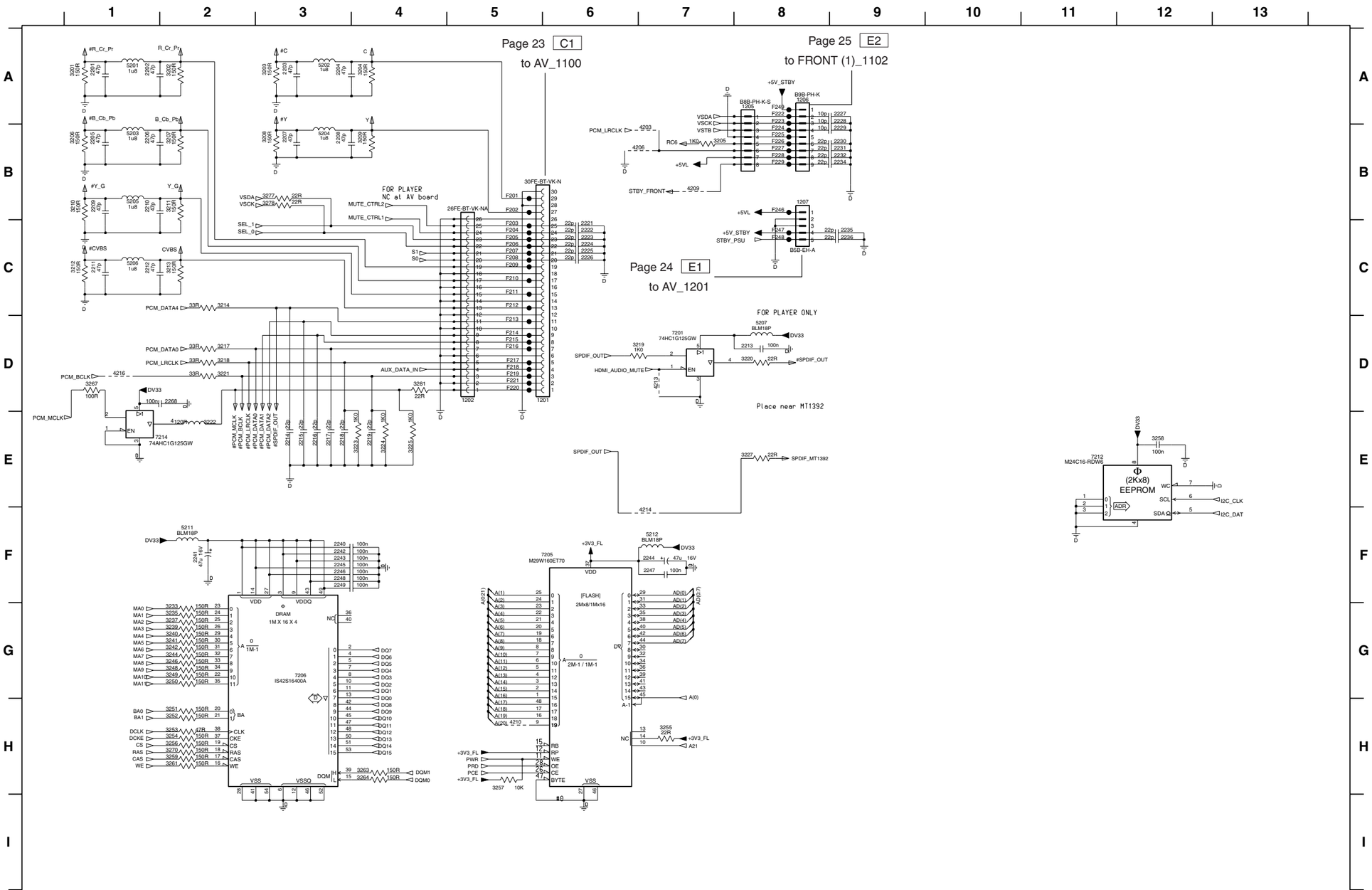
1101 D1
1102 F1
1103 H1
1104 I10
1105 F5
1106 F6
2001 B6
2002 F2
2003 I13
2101 A4
2102 C6
2103 C6
2104 C6
2105 C3
2106 C4
2107 C4
2108 C4
2109 C14
2111 D2
2112 D2
2113 D13
2114 D5
2115 D3
2116 E13
2117 E5
2118 E5
2119 E4
2120 E4
2121 E4
2122 E4
2123 E4
2124 E5
2125 E5
2126 E6
2127 E2
2128 E13
2129 E5
2130 F13
2131 F6
2132 F6
2133 F3
2134 F13
2136 I1
2137 G13
2138 G4
2139 I1
2140 G6
2141 G6
2142 G1
2143 G13
2144 H3
2145 H7
2146 I11
2147 I13
2148 I4
2149 A9
2150 A9
2151 I9
2152 A8
2153 A9
2154 A8
2155 I9
2156 B10
2157 B11
2158 B2
2159 I12
2160 I1
2161 B2
2162 I1
2163 I1
2164 B4
2165 B5
2166 A8
2167 B8
2168 B8
2169 A13
2170 B9
2171 B9
2172 A9
2173 B10
2174 B10
2175 B10
2176 B8
2177 B12
2178 B8
2179 B8
2180 B8
2181 B8
2182 B8
2183 B8
2184 B12
2185 G1
2186 C2
2187 I8
2188 I8
2189 B10
2190 B13
2191 B13
2192 B7
2193 B6
2194 B6
2195 C13
2196 C6
2197 C6
2199 G3
3101 A10
3102 A10
3104 A12
3105 A12
3109 A12
3112 A9
3116 B4
3117 B8
3118 B9
3119 B12
3120 B7
3121 B10
3122 B10
3123 B4
3124 C4
3125 C4
3126 C4
3127 D14
3129 D14
3130 D5
3131 D3
3132 D2
3133 E3
3134 E3
3135 E5
3136 E2
3137 E3
3138 E5
3139 F3
3140 F3
3143 G2
3145 G2
3146 G2
3147 G2
3148 G3
3149 H3
3150 H3
3151 H10
3152 I12
3153 I6
3154 I7
3155 I3
3157 I3
3158 I3
3159 I6
3160 I7
3161 I9
3162 H13
3163 I9
3164 H13
3165 B10
3166 A5
3167 A6
3168 A6
3169 F5
3170 F5
3171 F4
3172 G5
3174 I9
3175 I9
3176 I9
3177 H13
3178 B11
3182 F7
3183 F7
3184 F5
4122 C7
4123 C7
4124 C7
4125 D7
4126 D7
4130 G2
4132 H2
4133 I2
4136 H7
4138 I2
4139 I2
4144 H10
4146 H11
4147 I2
5139 A9
5140 A2
5141 B4
5142 A9
5143 B10
5144 A9
5147 B13
5148 D5
5151 D3
5152 D2
5153 D3
5154 E5
5155 F6
5156 F3
5157 G6
5158 G1
5159 G3
5160 B6
6104 H7
6105 H6
7104 D4
7105 D3
7106 E2
7107 E3
7108 E10
7109 F3
7110 E4
7111 G4
7112 H6
7113 H7
7114 I11
7115 A4
7116 A5
7117 A5
7118 G5
7119 H14
T101 E2
T102 E7
T113 E2
T114 E2
T115 E2
T116 E2
T117 F2
T118 F2
T119 F2
T120 F2
T121 F2
T122 F2
T123 F2
T125 G1
T126 G1
T127 G1
T128 G1
T129 G1
T130 G1
T131 I1
T132 I1
T134 I1
T135 I1
T136 E7
T137 F7
T138 E7
T139 E7
T140 E7
T141 E7
T142 E7
T143 C7
T155 I10
T156 I10
T158 I10

★ 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.

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

MONO 2/3



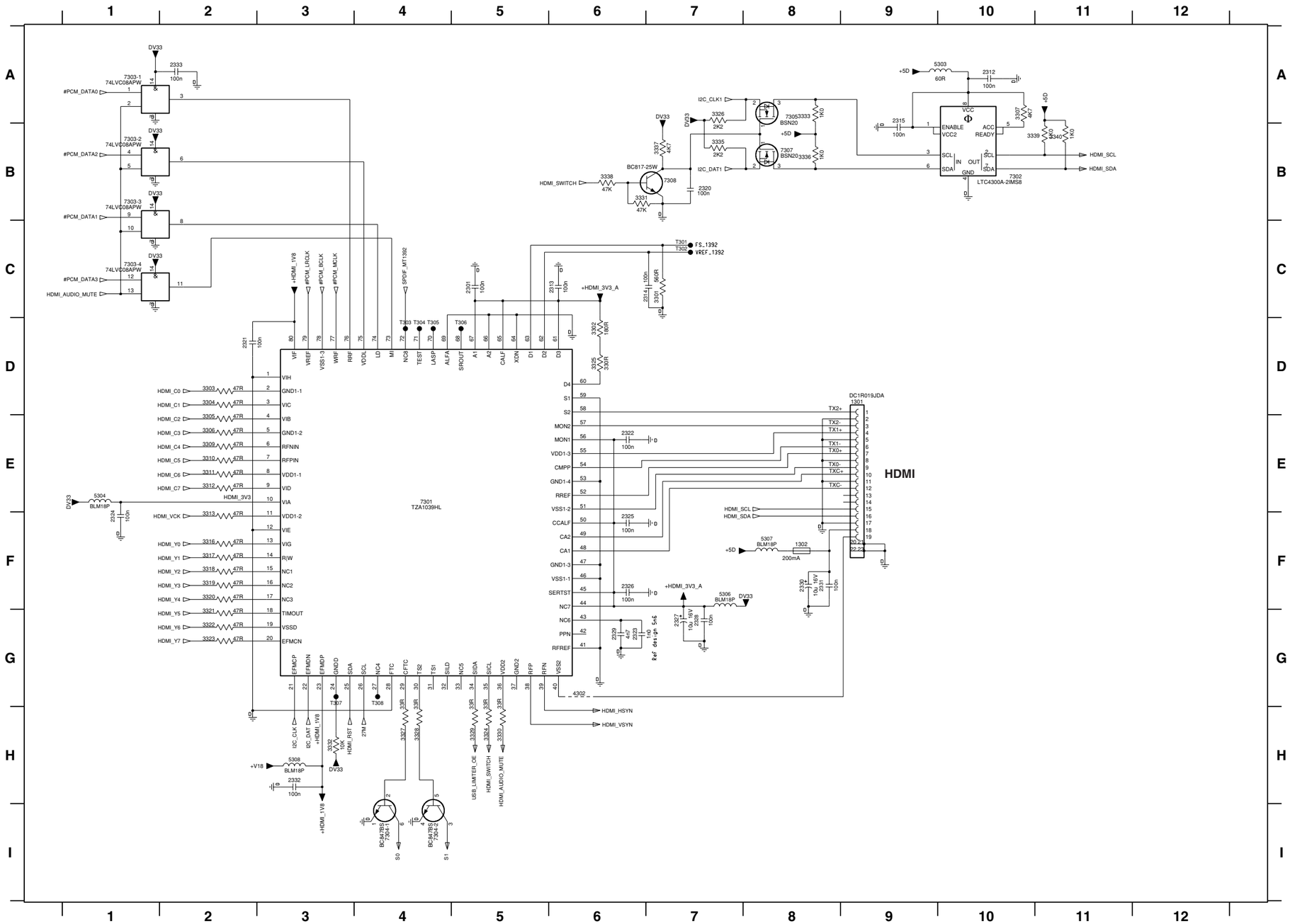
1201 D6
1202 D5
1204 A11
1205 A8
1206 A8
1207 B8
1208 A12
2201 A1
2202 A1
2203 A3
2204 A3
2205 B1
2206 B1
2207 B3
2208 B3
2209 B1
2210 B1
2211 C1
2212 C1
2213 D8
2214 E3
2215 E3
2216 E3
2217 E3
2218 E3
2219 E4
2221 C6
2222 C6
2223 C6
2224 C6
2225 C6
2226 C6
2227 A9
2228 A9
2229 B9
2230 B9
2231 B9
2232 B9
2234 B9
2235 C9
2236 C9
2240 F3
2241 F2
2242 F3
2243 F3
2244 F7
2245 F3
2246 F3
2247 F7
2248 F3
2249 F3
2266 B13
2267 B13
2268 D2
2269 A13
3201 A1
3202 A2
3203 A3
3204 A4
3205 B7
3206 B1
3207 B2
3208 B3
3209 B4
3210 B1
3211 B2
3212 C1
3213 C2
3214 C2
3217 D2
3218 D2
3219 D7
3220 D8
3221 D2
3222 E2
3223 E4
3224 E4
3225 E4
3227 E8
3233 G2
3235 G2
3237 G2
3239 G2
3240 G2
3241 G2
3242 G2
3244 G2
3246 G2
3248 G2
3249 G2
3250 G2
3251 H2
3252 H2
3253 H2
3254 H2
3255 H7
3256 H2
3257 H5
3258 E12
3259 H2
3261 H2
3263 H4
3264 H4
3267 D1
3270 H2
3277 B3
3278 B3
3281 D4
4203 B7
4206 B7
4209 B7
4210 H5
4213 D7
4214 F7
4216 D1
5201 A1
5202 A3
5203 B1
5204 B3
5205 B1
5206 C1
5207 D8
5211 F2
5212 F7
7201 D7
7205 F5
7206 G3
7212 E11
7214 E2
F201 B5
F202 B5
F203 C5
F204 C5
F205 C5
F206 C5
F207 C5
F208 C5
F209 C5
F210 C5
F211 C5
F212 C5
F213 D5
F214 D5
F215 D5
F216 D5
F217 D5
F218 D5
F219 D5
F220 D5
F221 D5
F222 A8
F223 A8
F224 B8
F225 B8
F226 B8
F227 B8
F228 B8
F229 B8
F230 A12
F231 A12
F232 A12
F233 B12
F234 B12
F235 B12
F236 B12
F237 B12
F238 C12
F239 B12
F240 B12
F241 B12
F242 B12
F243 B12
F244 C11
F245 B12
F246 B8
F247 C8
F248 C8
F249 A8

★ 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.

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

MONO 3/3



1301 D9
1302 F8
2301 C5
2312 A10
2313 C6
2314 C7
2315 A9
2320 B7
2321 D2
2322 E6
2323 G6
2324 F1
2325 F6
2326 F6
2327 G7
2328 G7
2329 G6
2330 F8
2331 F8
2332 H3
2333 A2
3301 C7
3302 D6
3303 D2
3304 D2
3305 E2
3306 E2
3307 A10
3309 E2
3310 E2
3311 E2
3312 E2
3313 F2
3316 F2
3317 F2
3318 F2
3319 F2
3320 F2
3321 G2
3322 G2
3323 G2
3324 H5
3325 D6
3326 A7
3327 H4
3328 H4
3329 H5
3330 H5
3331 B6
3332 H3
3333 A8
3335 B7
3336 B8
3337 B7
3338 B6
3339 B10
3340 B11
4302 G6
5303 A10
5304 E1
5306 F7
5307 F8
5308 H3
7301 E4
7302 B10
7303-1 A1
7303-2 B1
7303-3 B1
7303-4 C1
7304-1 I4
7304-2 I4
7305 A8
7307 B8
7308 B7
T301 C7
T302 C7
T303 D4
T304 D4
T305 D4
T306 D5
T307 G3
T308 G4

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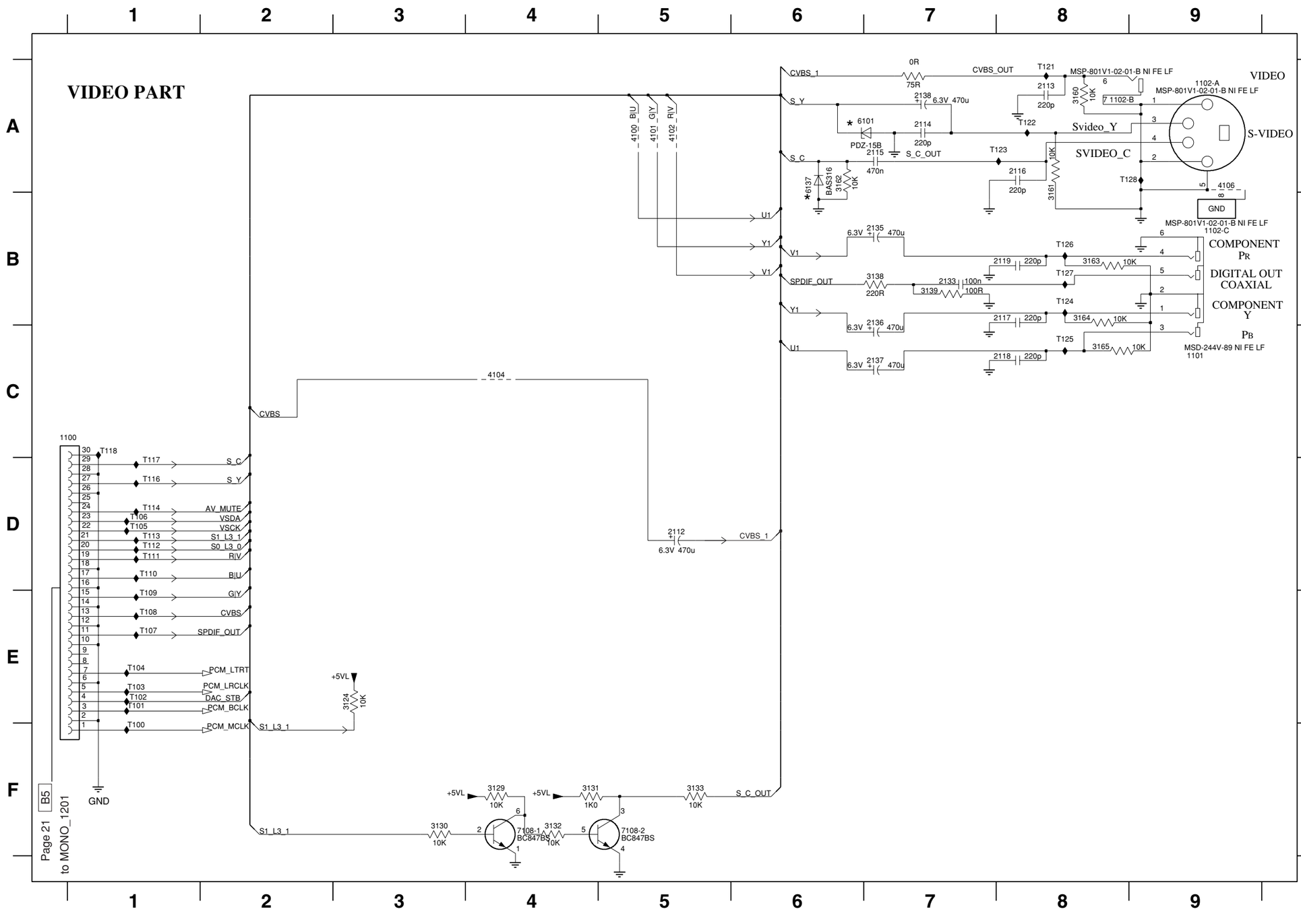
AV 1/2



1100 C1
1101 C9
1102-A A9
1102-B A8
1102-C B9
2112 D5
2113 A8
2114 A7
2115 A7
2116 A8
2117 B8
2118 C8
2119 B8
2133 B7
2135 B7
2136 C7
2137 C7
2138 A7
3124 E3
3129 F4
3130 F3
3131 F4
3132 F4
3133 F5
3134 A7
3138 B7
3139 B7
3160 A8
3161 A8
3162 A6
3163 B8
3164 B8
3165 C8
4100 A5
4101 A5
4102 A5
4104 C4
4106 A9
6101 A7
6107 D8
6109 E9
6120 B5
6137 A6
7108-1 F4
7108-2 F5
T100 F1
T101 E1
T102 E1
T103 E1
T104 E1
T105 D1
T106 D1
T107 E1
T108 E1
T109 E1
T110 D1
T111 D1
T112 D1
T113 D1
T114 D1
T116 D1
T117 D1
T118 C1
T121 A8
T122 A8
T123 A8
T124 B8
T125 C8
T126 B8
T127 B8
T128 A8
T129 D9
T130 D9
T131 D8
T132 D8
T133 E8
T134 E8
T135 F8
T136 F8
T139 C9

The first digit of a component indicates the component type.

1xxx : Connector	3xxx : Resistor	5xxx : Coil	7xxx : IC, Transistor, FET
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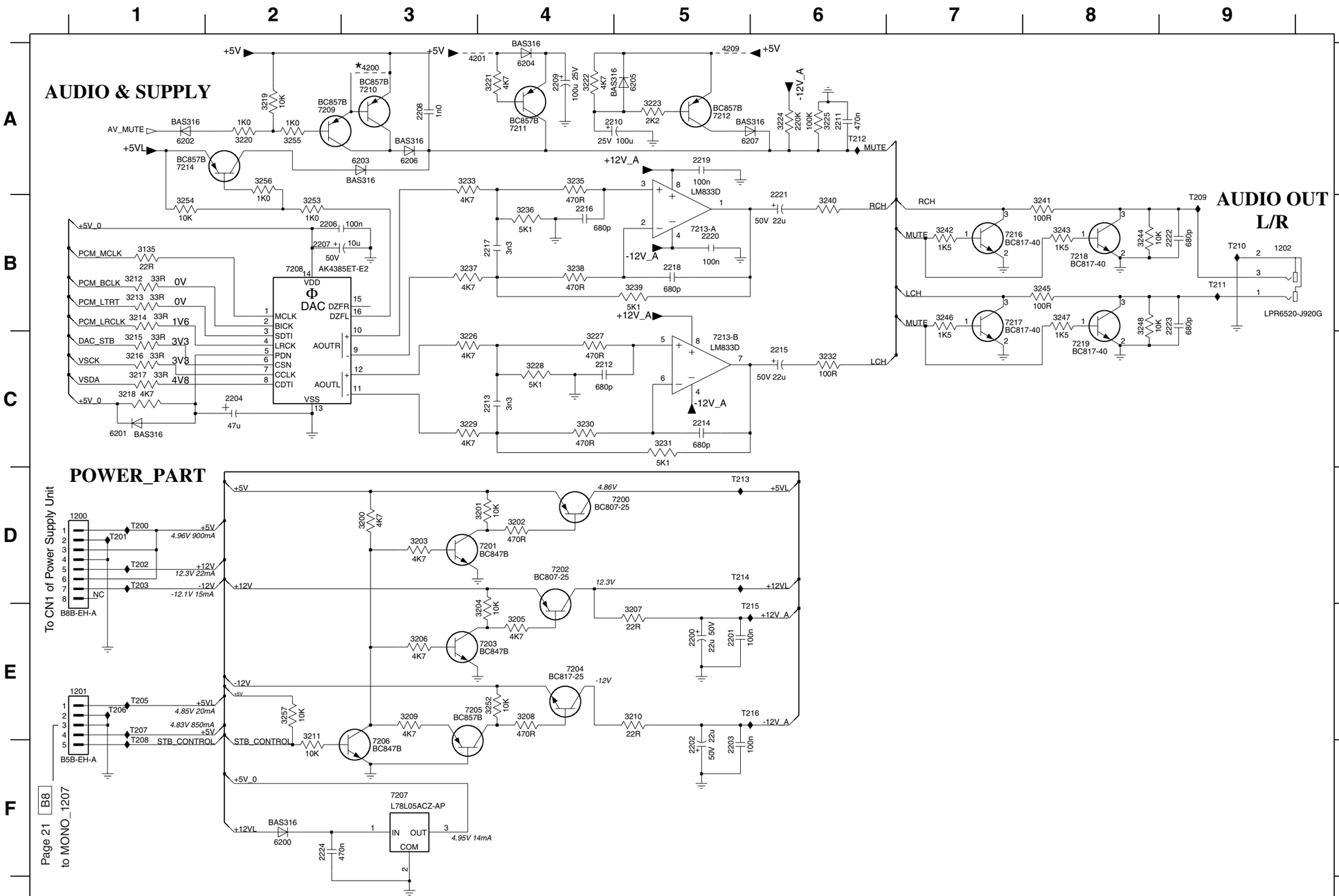
AV 2/2



1200 D1	3252 E4
1201 E1	3253 B2
1202 B9	3254 B1
2200 E5	3255 A2
2201 E5	3256 A2
2202 F5	3257 E2
2203 F5	4200 A3
2204 C2	4201 A3
2206 B2	4209 A5
2207 B2	6200 F2
2208 A3	6201 C1
2209 A4	6202 A1
2210 A4	6203 A3
2211 A6	6204 A4
2212 C4	6205 A5
2213 C4	6206 A3
2214 C5	6207 A5
2215 C6	7200 D5
2216 B4	7201 D4
2217 B4	7202 D4
2218 B5	7203 E4
2219 A5	7204 E4
2220 B5	7205 E4
2221 B6	7206 F3
2222 B9	7207 F3
2223 B9	7208 B2
2224 F2	7209 A2
3135 B1	7210 A3
3200 D3	7211 A4
3201 D4	7212 A5
3202 D4	7213-A B5
3203 D3	7213-B C5
3204 E4	7214 A1
3205 E4	7216 B7
3206 E3	7217 B7
3207 E5	7218 B8
3208 E4	7219 B8
3209 E3	T200 D1
3210 E5	T201 D1
3211 E2	T202 D1
3212 B1	T203 D1
3213 B1	T205 E1
3214 B1	T206 E1
3215 C1	T207 E1
3216 C1	T208 E1
3217 C1	T209 B9
3218 C1	T210 B9
3219 A2	T211 B9
3220 A2	T212 A6
3221 A4	T213 D5
3222 A4	T214 D5
3223 A5	T215 E5
3224 A6	T216 E5
3225 A6	
3226 C3	
3227 C4	
3228 C4	
3229 C3	
3230 C4	
3231 C5	
3232 C6	
3233 A3	
3235 A4	
3236 B4	
3237 B3	
3238 B4	
3239 B5	
3240 B6	
3241 B8	
3242 B7	
3243 B8	
3244 B8	
3245 B8	
3246 B7	
3247 B8	
3248 B8	

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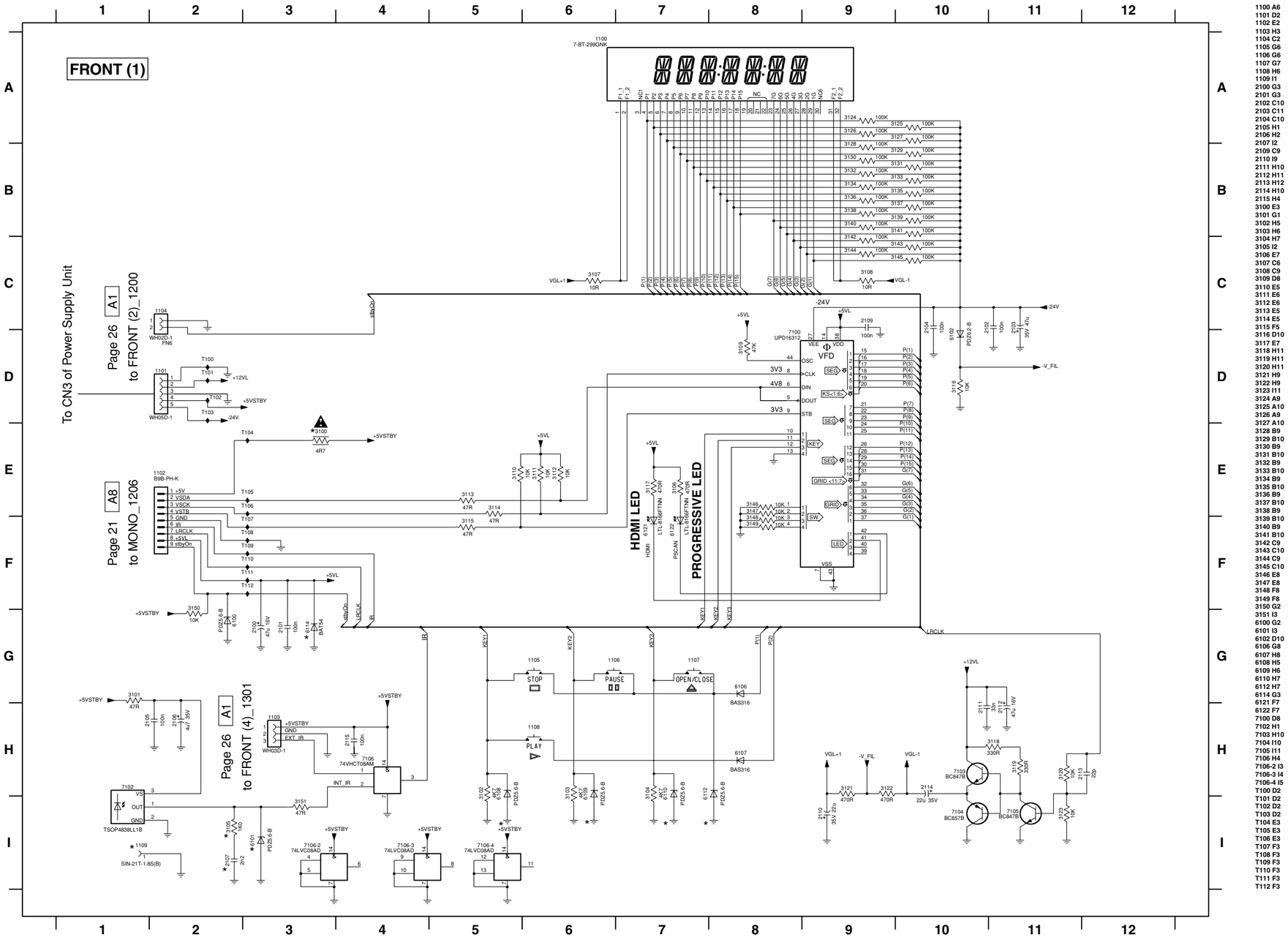
FRONT 1/2



1100 A6
1101 D2
1102 E2
1103 H3
1104 C2
1105 G6
1106 G6
1107 G7
1108 H6
1109 I1
2100 G3
2101 G3
2102 C10
2103 C11
2104 C10
2105 H1
2106 H2
2107 I2
2109 C9
2110 I9
2111 H10
2112 H11
2113 H12
2114 H10
2115 H4
3100 E3
3101 G1
3102 H5
3103 H6
3104 H7
3105 I2
3106 E7
3107 C6
3108 C9
3109 D8
3110 E5
3111 E6
3112 E6
3113 E5
3114 E5
3115 F5
3116 D10
3117 E7
3118 H11
3119 H11
3120 H11
3121 H9
3122 H9
3123 I11
3124 A9
3125 A10
3126 A9
3127 A10
3128 B9
3129 B10
3130 B9
3131 B10
3132 B9
3133 B10
3134 B9
3135 B10
3136 B9
3137 B10
3138 B9
3139 B10
3140 B9
3141 B10
3142 C9
3143 C10
3144 C9
3145 C10
3146 E8
3147 E8
3148 F8
3149 F8
3150 G2
3151 I3
6100 G2
6101 I3
6102 D10
6106 G8
6107 H8
6108 H5
6109 H6
6110 H7
6112 H7
6114 G3
6121 F7
6122 F7
7100 D8
7102 H1
7103 H10
7104 I10
7105 I11
7106 H4
7106-2 I3
7106-3 I4
7106-4 I5
T100 D2
T101 D2
T102 D2
T103 D2
T104 E3
T105 E3
T106 E3
T107 F3
T108 F3
T109 F3
T110 F3
T111 F3
T112 F3

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★ Schematic diagram is subject to change without notice.

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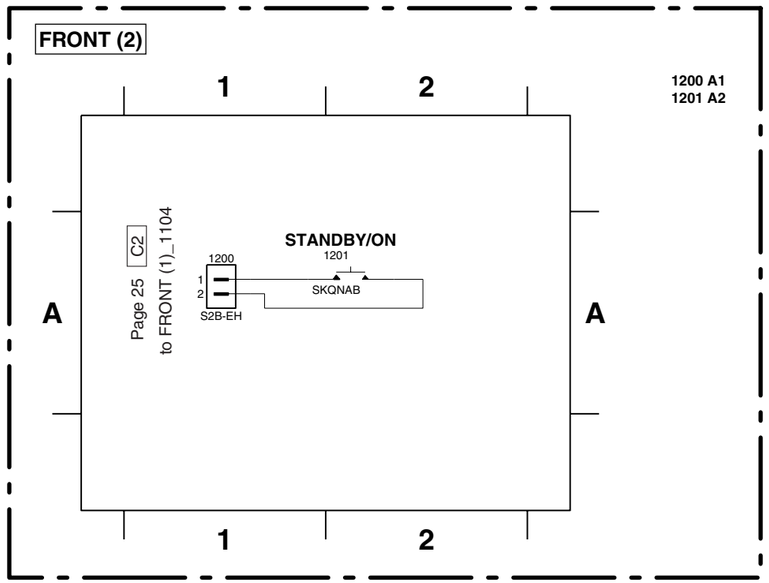
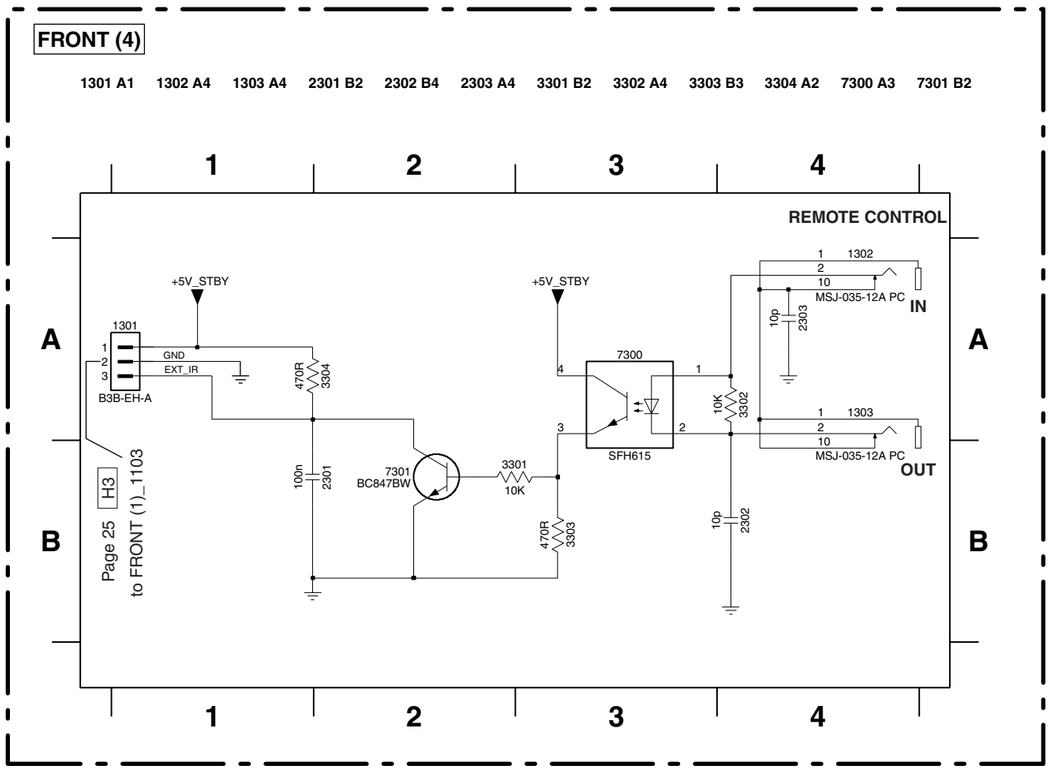
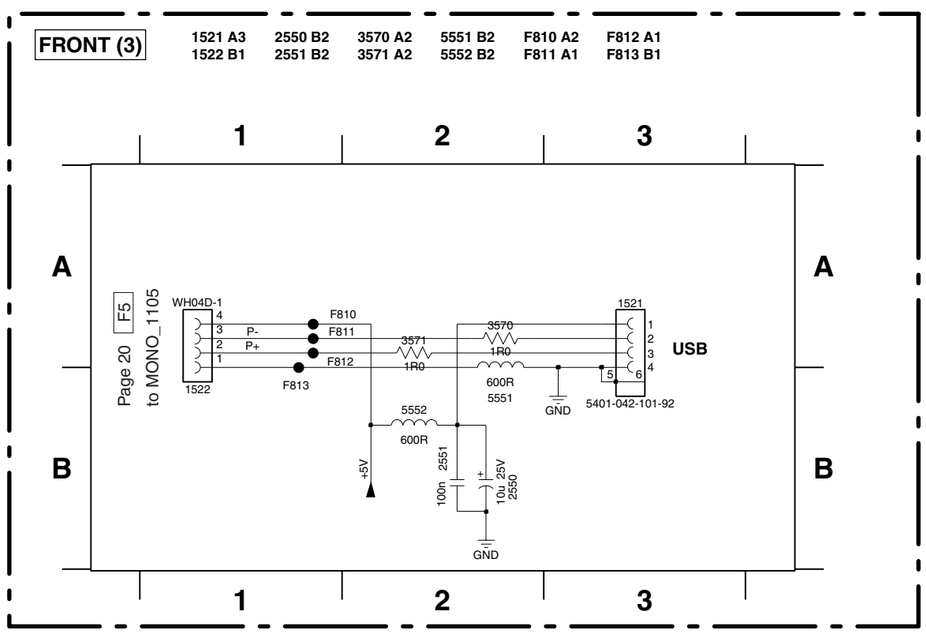
FRONT 2/2







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★ Schematic diagram is subject to change without notice.

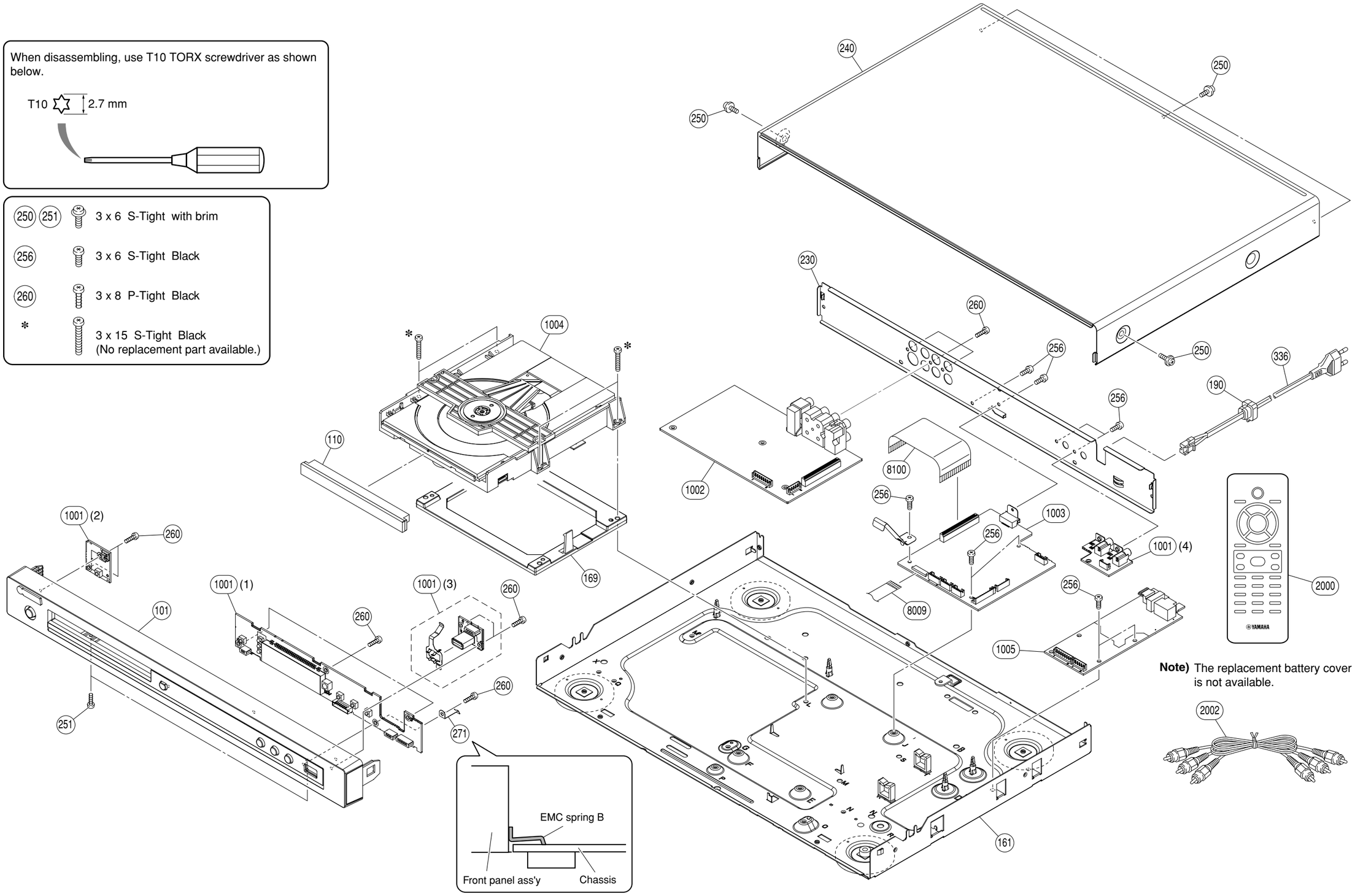
MEMO

MEMO

■ REPLACEMENT PARTS LIST

When disassembling, use T10 TORX screwdriver as shown below.

250 251		3 x 6 S-Tight with brim
256		3 x 6 S-Tight Black
260		3 x 8 P-Tight Black
*		3 x 15 S-Tight Black (No replacement part available.)



Note) The replacement battery cover is not available.

■ **WARNING**

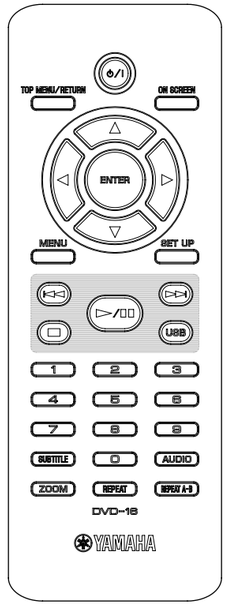
● Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.

	Ref. No.	Part No.	Description		Remarks	Markets
*	101	AAX82190	FRONT PANEL ASS'Y	S661BL	3141 079 41521	
*	101	AAX82200	FRONT PANEL ASS'Y	S661TI	3141 079 41531	
*	101	AAX82230	FRONT PANEL ASS'Y	S661SI	3141 079 41561	
*	101	AAX83640	FRONT PANEL ASS'Y	S6160BL		
*	101	AAX82220	FRONT PANEL ASS'Y	S6160SI	3141 079 41551	
	110	AAX77810	TRAY COVER ASS'Y		3141 079 37091	
	161	AAX77820	FRAME ASS'Y		3141 079 37101	
	169	AAX77860	BRACKET		3139 244 10241	
	190	AAX53540	BUSH	450H259010	3139 114 26671	
*	230	AAX82280	REAR PANEL	S661	3139 241 26431	U
*	230	AAX82321	REAR PANEL	S661	3139 241 26403	K
*	230	AAX82260	REAR PANEL	S661	3139 241 26411	A
*	230	AAX82330	REAR PANEL	S661	3139 241 26391	L
*	230	AAX82270	REAR PANEL	S661	3139 241 26421	P
*	230	AAX82250	REAR PANEL	S6160	3139 241 26381	U
	240	AAX58270	TOP COVER	BL	3139 247 59051	
	240	AAX58290	TOP COVER	TI, SI	3139 241 22191	
	250	AAX55450	PW HEAD TORX S-TIGHT SCREW	BL 3x6-8 MFZN2BL	3139 110 40611	
	250	AAX53440	PW HEAD TORX S-TIGHT SCREW	TI,SI3x6-8MFNI33	3104 120 40081	
	251	AAX55450	PW HEAD TORX S-TIGHT SCREW	3x6-8 MFZN2BL	3139 110 40611	
	256	AAX23640	PAN HEAD TORX S-TIGHT SCREW	3x6 MFZN2BL	2511 077 00039	
	260	AAX53520	PAN HEAD TORX P-TIGHT SCREW	3x8 MFZN2BL	2511 076 50012	
	271	AAX69600	EMC SPRING B		3139 241 00042	
⚠	336	AAX47750	POWER CABLE	1.8m	2422 070 98235	U
⚠	336	AAX59130	POWER CABLE	1.8m	2422 070 98222	K
⚠	336	AAX47740	POWER CABLE	1.8m	2422 070 98233	A
⚠	336	AAX53630	POWER CABLE	1.8m	2422 070 98231	L
* ⚠	336	AAX82310	POWER CABLE	1.8m	2422 070 00026	P
*	1001	AAX82180	P.C.B. ASS'Y	FRONT	3139 248 51812	
*	1002	AAX82160	P.C.B. ASS'Y	AV	3139 248 89921	
*	1003	AAX82170	P.C.B. ASS'Y	MONO DVM91USB	3139 248 51821	
	1004	AAX79060	DVD MECHANISM	WXD8829	3139 247 13341	
⚠	1005	AAX79050	POWER SUPPLY UNIT	06P15	3139 247 13351	
	8009	AAX53460	FLEXIBLE FLAT CABLE	24P 280mm P=0.5mm	3139 241 00391	
	8100	AAX77800	FLEXIBLE FLAT CABLE	30P 60mm P=1mm	3139 241 02491	
			ACCESSORIES			
*	2000	AAX83650	REMOTE CONTROL	DVD-16	2422 549 01589	
	2002	AAX23450	AUDIO/VIDEO CABLE	YE/RD/WH 1.5m 1pc	2422 076 00304	
			BATTERY	AAA,R03,UM-4 2pcs		

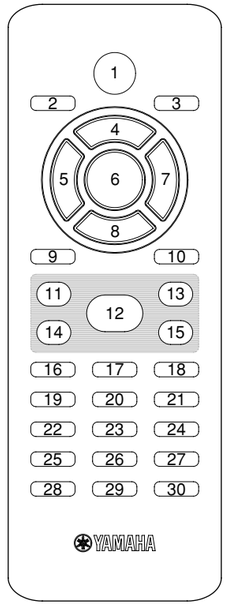
✻ New Parts

■ REMOTE CONTROL DVD-16

- **PANEL**



- **KEY NO. LAYOUT**



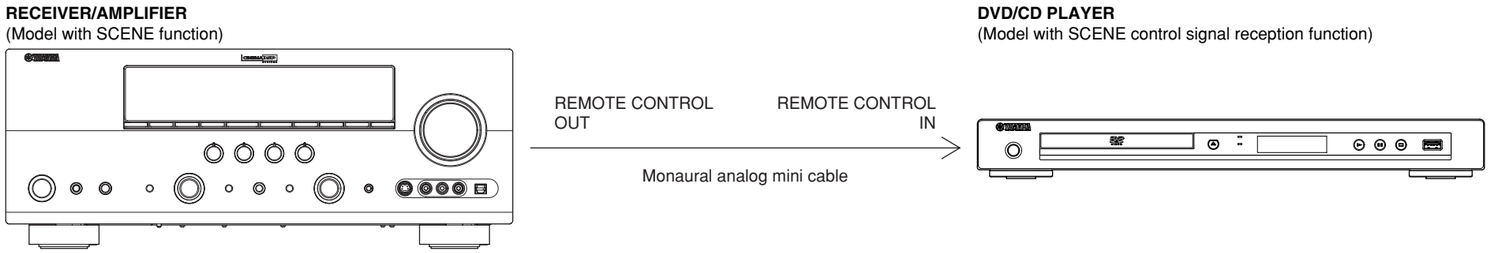
- **KEY CODE**

No.	Key label	Code
1	STANDBY (POWER)	7C-80
2	TOP MENU/RETURN	7C-B1
3	ON SCREEN	7C-A6
4	▲ (UP)	7C-B4
5	◀ (LEFT)	7C-B5
6	ENTER	7C-B8
7	▶ (RIGHT)	7C-B6
8	▼ (DOWN)	7C-B3
9	MENU	7C-B2
10	SET UP	7C-AC
11	⏮ (SKIP) / SEARCH-	7C-B9
12	▶/⏸ (PLAY/PAUSE) *	7C-92
13	⏭ (SKIP) / SEARCH+	7C-BA
14	■ (STOP)	7C-85
15	USB	7C-E6
16	1	7C-94
17	2	7C-95
18	3	7C-96
19	4	7C-97
20	5	7C-98
21	6	7C-99
22	7	7C-9A
23	8	7C-9B
24	9	7C-9C
25	SUBTITLE	7C-AA
26	0	7C-93
27	AUDIO	7C-AD
28	ZOOM	7C-D7
29	REPEAT	7C-A3
30	REPEAT A-B	7C-A4

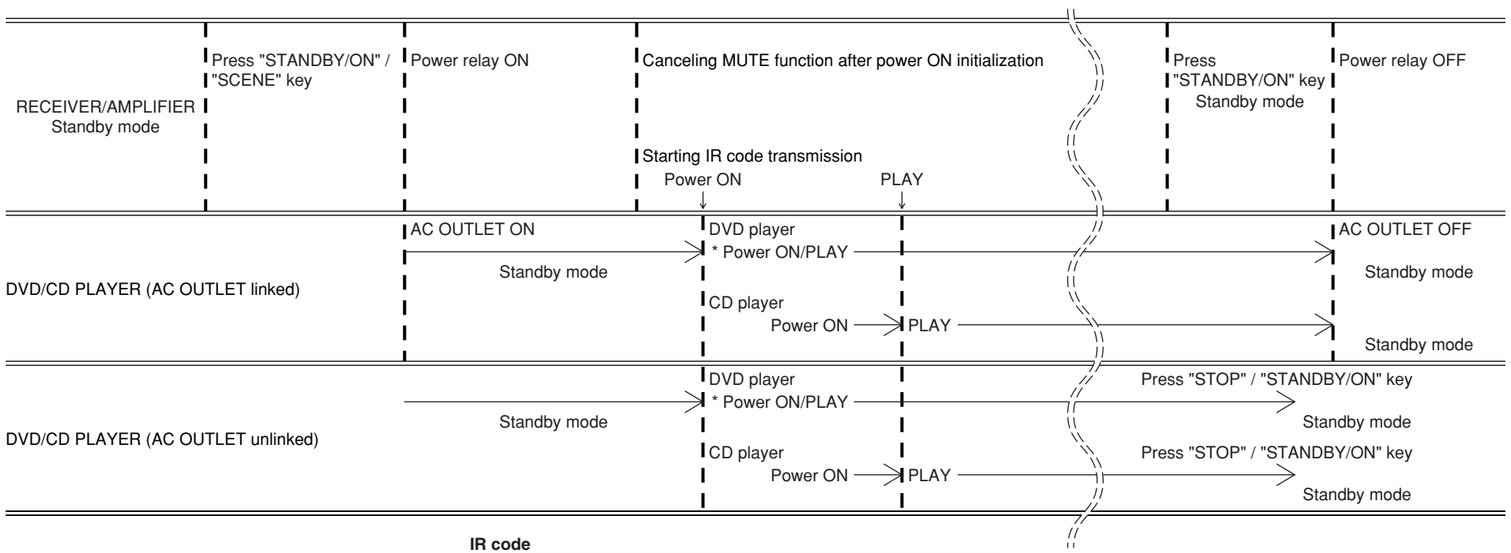
* Possible receiving
PLAY : 7C-82
PAUSE : 7C-83

■ SCENE CONTROL

- **Example of connection**



- **SCENE control**



IR code

	Power ON	PLAY
DVD	* 7C-82 [PLAY code]	–
CD	79-7E	79-02

* When the DVD player receives the IR code [PLAY], the power is turned on and the disc is played at the same time.

DVD PLAYER

DVD-S661

SERVICE MANUAL

For G model

This service manual is for the DVD-S661 (G model).
For the DVD-S661/DV-S6160 (U, K, A, L, P models) service manual, please refer to the following publication number:

DVD-S661/DV-S6160 (U, K, A, L, P models): 101050

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.

DVD-S661

■ CONTENTS

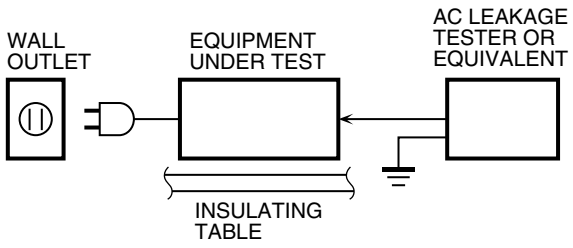
101047

YAMAHA CORPORATION
P.O.Box 1, Hamamatsu, Japan
'07.03

■ 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 0.15μF.



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

WARNING: CHEMICAL CONTENT NOTICE!

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

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

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

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

WARNING: Laser Safety

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

1) When testing and/or repairing any component within the product, keep your eyes and skin more than 30 cm away from the laser pick-up unit at all times. Do not stare at the laser beam at any time.

2) Do not attempt to readjust, disassemble or repair the laser pick-up, unless noted elsewhere in this manual.

3) CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser Emitting conditions:

1) When the Top Cover is removed, and the STANDBY/ON SW is turned to the "ON" position, the laser component will emit a beam for several seconds to detect if a disc is present. During this time (5-10 sec.) the laser may radiate through the lens of the laser pick-up unit. Do not attempt any servicing during this period!
   If no disc is detected, the laser will stop emitting the beam. When a disc is loaded, you will not be exposed to any laser emissions.

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)
	10 mW (VCD/CD)
Beam divergence:	60 degree

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.

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

ADVARSEL
SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.

ADVARSEL
SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.

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

VARO!
AVATTAESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LASER SÄ TEILYLLE. ÄLÄ KATSO SÄTEESEEN.

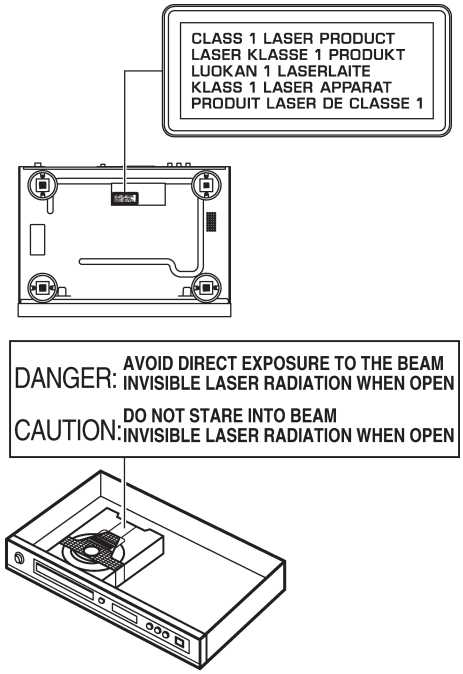
VORSICHT
SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETSEN.

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

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

ПРЕДУПРЕЖДЕНИЕ
ПРИ ОТКРЫТИИ УСТРОЙСТВА ВЫ МОЖЕТЕ ПОДВЕРГНУТБСЯ ВОЗДЕЙСТВИЮ ВИДИМОГО И НЕВИДИМОГО ЛАЗЕРНОГО ИЗЛУЧЕНИЯ. ИЗБЕГАИТЕ ВОЗДЕЙСТВИЯ ЛУЧА.

OSTRZEŻENIE
WIDZIALNE I NIEWIDZIALNE PROMIENIOWANIE LASEROWE PO OTWARCIU. UNIKAĆ NARAŻENIA NA WIĄZKĘ LASEROWĄ.



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

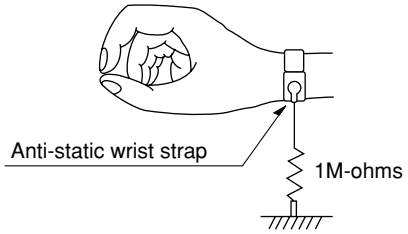
The laser diode in the DVD mechanism may be damaged due to static electricity from clothes or the human body. Use caution to prevent electrostatic damage when servicing or handling the DVD-mechanism.

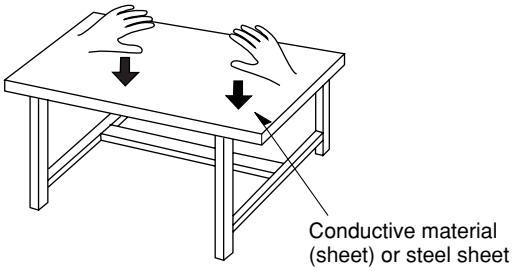
1. Grounding for electrostatic damage prevention

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

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

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



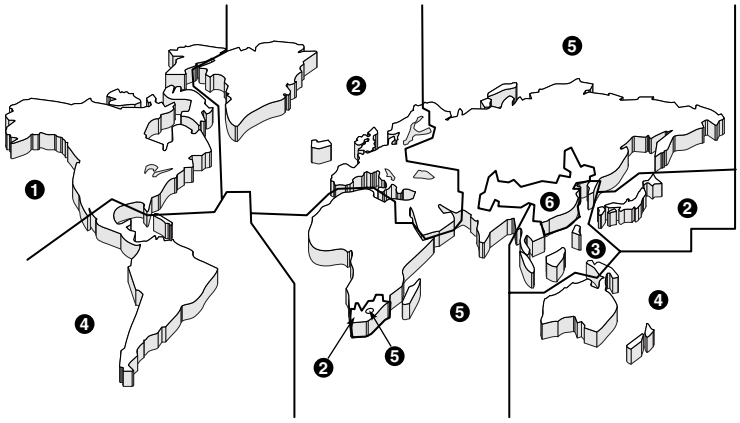


2. Handling Precautions for DVD mechanism

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

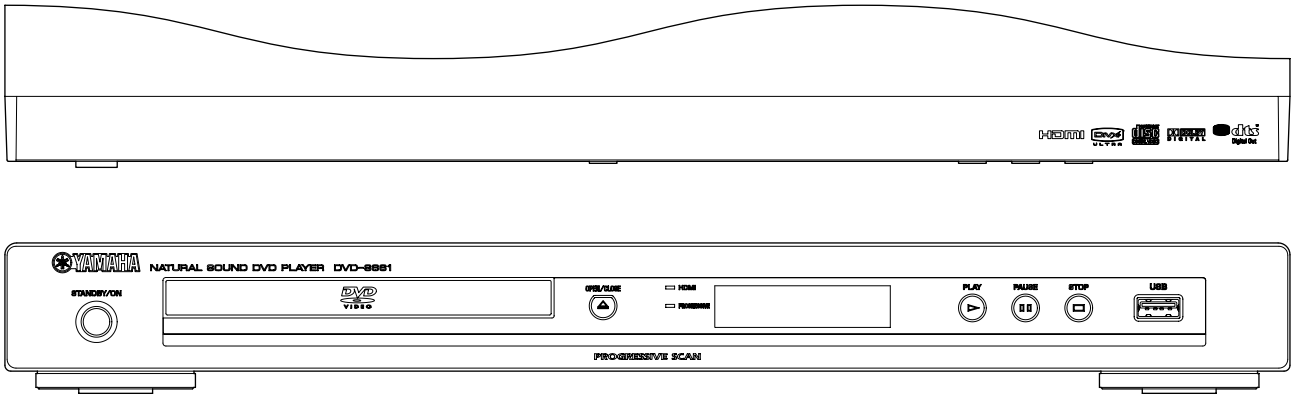
■ LOCALE MANAGEMENT INFORMATION

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



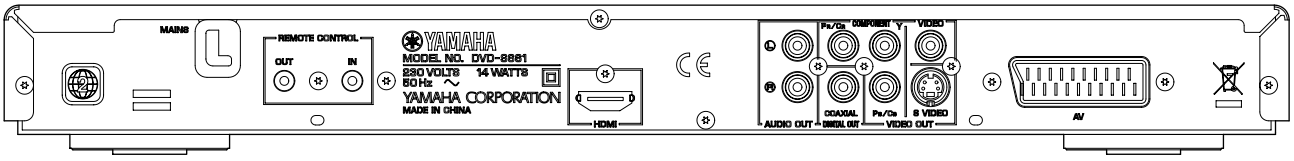
■ FRONT PANEL

G model

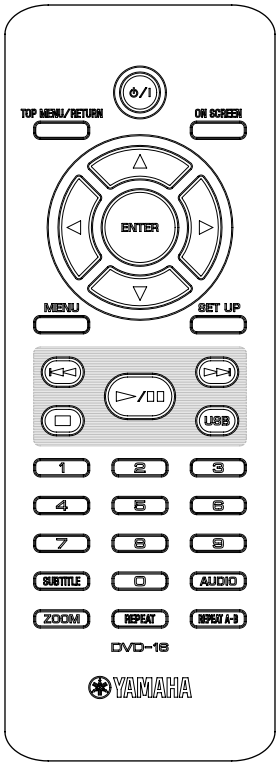


■ REAR PANEL

G model



■ REMOTE CONTROL PANEL



■ SPECIFICATIONS

PLAYBACK SYSTEM

DVD Video, VR (Video Recording) format (DVD-RW)	
DVD-R, DVD-RW, DVD-R DL	
DVD+R, DVD+RW, DVD+R DL	
Video CD, SVCD	
CD	
PICTURE CD	
CD-R, CD-RW	
MP3 (ISO 9660)	fs 32, 44.1, 48 kHz / 96, 128, 256, 320 kbps (Constant bit rate)
WMA	fs 44.1 kHz, 62 to 192 kbps / fs 48 kHz, 128 to 192 kbps (Constant bit rate)
DivX	
JPEG	3072 x 2048 dpi or less

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
RGB (SCART) output	Y: 0.7 Vpp into 75 ohms
HDMI upscaling	576 p, 720 p, 1080 i

AUDIO FORMAT

Digital	
Dolby Digital, DTS, MPEG	Compressed digital
PCM	fs 44.1, 48, 96 kHz / 16, 20, 24 bits
Analog sound	Stereo

AUDIO PERFORMANCE

DA converter	24 bits	
Signal to noise (1 kHz)	105 dB	
Dynamic range (1 kHz)	97 dB	
DVD	fs 96 kHz	2 Hz to 44 kHz
	fs 48 kHz	2 Hz to 22 kHz
SVCD	fs 48 kHz	2 Hz to 22 kHz
	fs 44.1 kHz	2 Hz to 20 kHz
CD/VCD	fs 44.1 kHz	2 Hz to 20 kHz
Distortion and noise (1 kHz)	0.0035 %	

MULTIMEDIA (USB) APPLICATIONS

Connections	USB mass storage class device
Playback formats (USB device)	
MP3	fs 32, 44.1, 48 kHz / 96, 128, 256, 320 kbps
WMA	fs 44.1 kHz / 62 to 192 kbps fs 48 kHz / 128 to 192 kbps
DivX	3 Mbps or less
JPEG	3072 x 2048 dpi or less
Supported USB devices (FAT16 or FAT32 format)	FLASH memory Card reader (up to 6 slots) Portable audio player External hard disk drive (80 GB or less)

TV STANDARD	(PAL/50 Hz)	(NTSC/60 Hz)
Number of lines	625	525
Playback	Multistandard	(PAL/NTSC)

CONNECTIONS

Video output	RCA/Phono x 1 (yellow)
S-video output	Mini DIN, 4 pins x 1
Component video output	
Y output	RCA/Phono x 1 (green)
PB/CB outpu	RCA/Phono x 1 (blue)
PR/CR output	RCA/Phono x 1 (red)
SCART	Euroconnector x 1
Audio output (L+R)	RCA/Phono x 1 pair (white/red)
Digital output	
Coaxial	RCA/Phono x 1 IEC60958 for CDDA/LPCM / IEC61937 for MPEG 1/2, Dolby Digital and DTS
HDMI (HDMI 1.0)	Type A x 1
USB	Type A x 1
Remote control	
Input	3.5 mm mini jack x 1
Output	3.5 mm mini jack x 1

GENERAL

Dimensions (W x H x D)	435 x 51 x 318 mm (17-1/8" x 2" x 12-1/2")
Weight	Approx. 2.6 Kg (5 lbs. 12 oz)
Finish	Black color Titanium color Silver color
Power supply	AC 230 V, 50 Hz
Power consumption	Approx. 14 W
Standby power consumption	Less than 1 W

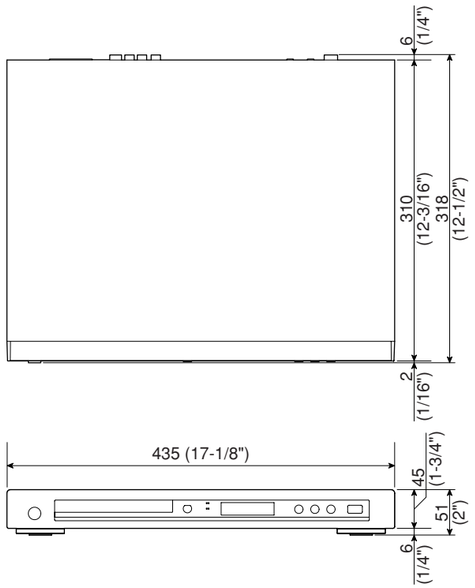
ACCESSORIES

Remote control x 1
Battery (AAA, R03, UM-4) x 2
Audio pin cable (1.5 m) x 1
Video pin cable (1.5 m) x 1

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

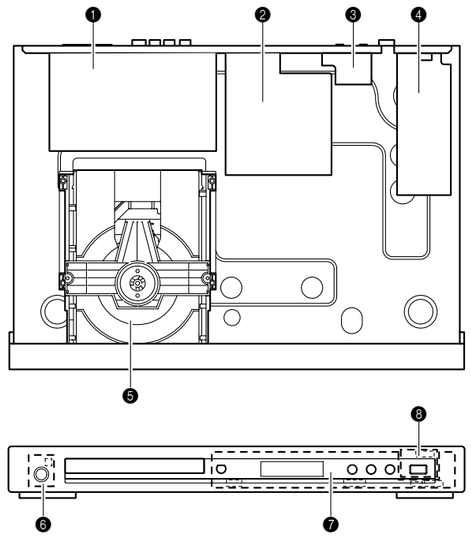
G ..... European model

- **DIMENSIONS**



Unit: mm (inch)

■ INTERNAL VIEW



❶ AV P.C.B.
❷ MONO P.C.B.
❸ FRONT (4) P.C.B.
❹ Power Supply Unit
❺ DVD Mechanism
❻ FRONT (2) P.C.B.
❼ FRONT (1) P.C.B.
❽ FRONT (3) P.C.B.

■ REPAIR NOTES

None of the components of the following unit can be supplied separately.
Each unit must be replaced as a whole in case of a failure.

- DVD Mechanism
- MONO P.C.B.
- FRONT P.C.B.
- AV P.C.B.
- Power Supply Unit

■ TRADE MODE

This unit provides TRADE mode which prevents the tray from opening even when the “OPEN/CLOSE” key is pressed.

- **Activating TRADE mode**
  The power to the main unit should be turned on before activating the TRADE mode.
  1. Press the “OPEN/CLOSE” key to open the tray. (Fig. 1)
  2. Press the “2”, “5” and “9” keys on the remote control in that order. (Fig. 2)
  3. “TRA ON” is displayed and TRADE mode is activated. About 2 seconds later, the tray is closed automatically. (Fig. 3)

Notes)
- After activating TRADE mode, it is not possible to operate keys of the main unit as usual except the following key.
  “STANDBY/ON” key (Turn on the power only)
  But operation with the remote control is available as usual.
- After TRADE mode is activated, initial settings for repeat reproduction of this unit are as follows.
  DVD : RPT TT (repeat title)
  VCD/SVCD/CD : RPT ALL (repeat all)

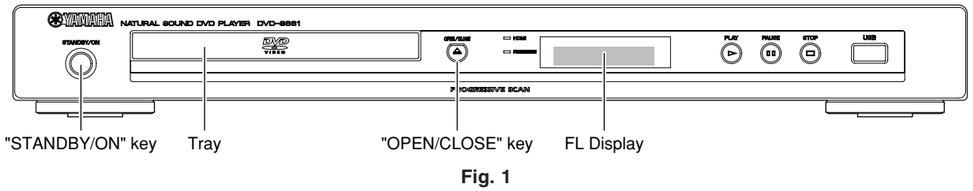


Fig. 1

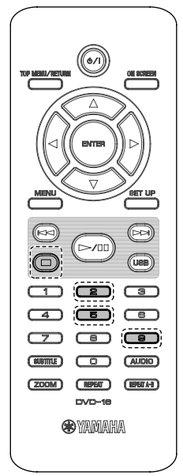
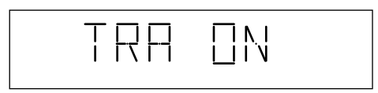


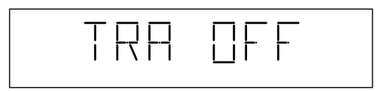
Fig. 2

TRADE mode display



Enter

Fig. 3



Cancel

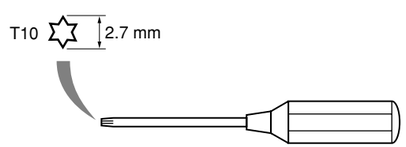
Fig. 4

- **Canceling TRADE mode**
  The power to the main unit should be turned on before canceling TRADE mode.
  1. Press and hold the “STOP” key on the remote control. (Fig. 2)
     The tray opens after about 2 second.
  2. Press the “2”, “5” and “9” keys on the remote control in that order. (Fig. 2)
  3. “TRA OFF” is displayed and TRADE mode is cancelled. About 2 seconds later, the tray is closed automatically. (Fig. 4)

■ DISASSEMBLY PROCEDURES

See REPLACEMENT PARTS LIST for item numbers.

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



Top Cover [240]
→ Remove 5 screws [250] (2 on side and 3 on rear side).
→ Lift cover from rear side to remove.

Mounting ↕ Dismounting

Front Panel [101]
→ Remove 4 cables connections. [1105] [1205] [CN3] [1301]
→ Open tray. (Fig. 2)
→ Unlock tray lid and close tray.
→ Remove 2 screws [251] (Front panel to bottom).
→ Unlock front panel by releasing successively 4 snaps (2 on the side and 2 on the bottom).

DVD Mechanism [1300-1]
→ Solder the lauds of the optical pick up. (Fig. 3)
→ Remove 3 cable connections [1101] [1102] [1103].
→ Open tray. (Fig. 2)
→ Unlock tray cover ass'y and close tray.
→ Remove 4 screws (DVD mechanism to frame).
→ Lift DVD mechanism up slightly and move it backward to remove.

MONO P.C.B. [1003]
→ Solder the lauds of the optical pick up. (Fig. 3)
→ Remove 7 cable connections [1101] [1102] [1103] [1105] [1201 (MONO P.C.B.)] [1205] [1207].
→ Remove 3 screws [256] (P.C.B. to frame).
→ Remove screw [260] (P.C.B. to rear panel).
→ Dismount P.C.B..

Power Supply Unit [1005]
→ Remove 3 cable connections [CN101] [CN1] [CN3].
→ Remove 2 screws [256] (P.C.B. to frame).
→ Release 2 spacers locking (P.C.B. to frame).
→ Dismount power supply unit.

FRONT (3) P.C.B. [1001 (3)]
→ Remove 2 screws [260] (P.C.B. to front panel).
→ Dismount P.C.B..

FRONT (1) P.C.B. [1001 (1)]
→ Remove 4 screws [260] (P.C.B. to front panel).
→ Dismount P.C.B..

FRONT (2) P.C.B. [1001 (2)]
→ Remove 2 screws [260] (P.C.B. to front panel).
→ Dismount P.C.B..
→ Remove cable connection [1200 (FRONT P.C.B.)].

AV P.C.B. [1002]
→ Remove 3 cable connections [1100] [1200 (AV P.C.B.)] [1201 (AV P.C.B.)].
→ Remove 5 screws [260] (P.C.B. to rear panel).
→ Release 2 spacers locking (P.C.B. to frame).
→ Dismount P.C.B..

FRONT (4) P.C.B. [1001 (4)]
→ Remove cable connection [1301].
→ Remove 2 screws [260] (P.C.B. to rear panel).
→ Dismount P.C.B..

● Cable connections

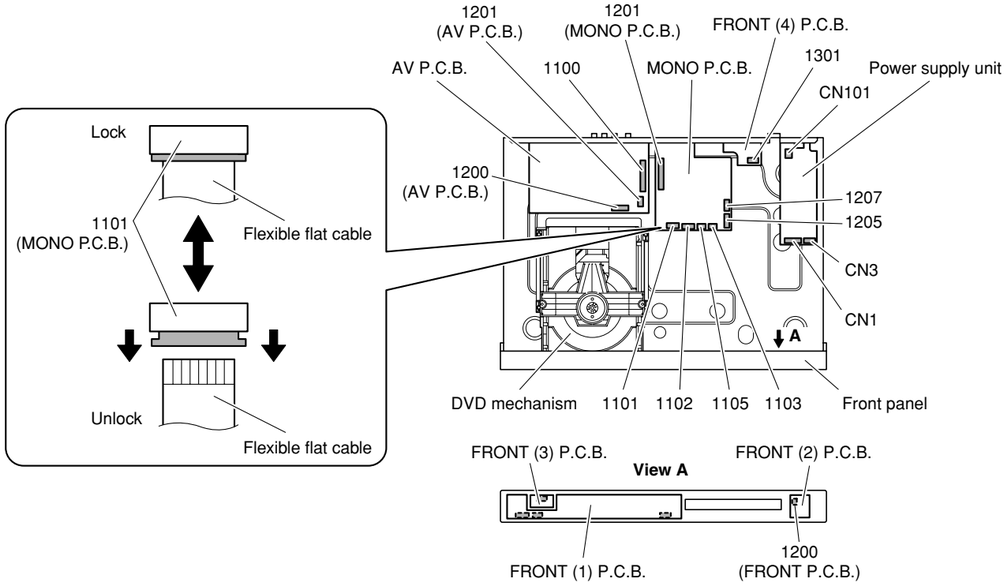


Fig. 1

● How to manually eject the tray

a. Move the slider in the direction indicated with a screw driver until the tray is ejected.
b. Gently pull the tray out.

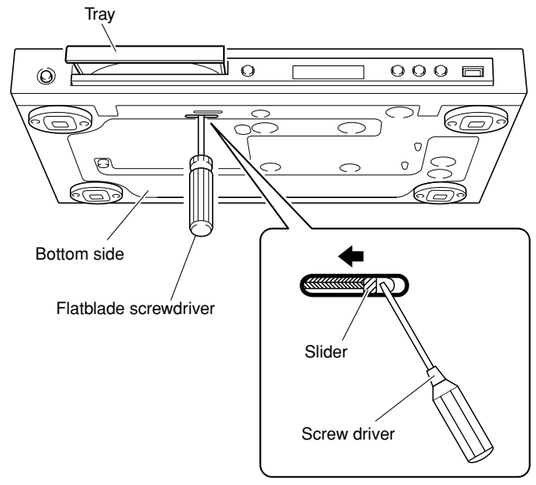


Fig. 2

● Preventive measure for laser diode from electrostatic breakdown

When replacing the MONO P.C.B. or DVD mechanism, solder between lands of the optical pick up P.C.B. to protect the laser diode against electrostatic breakdown.

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.

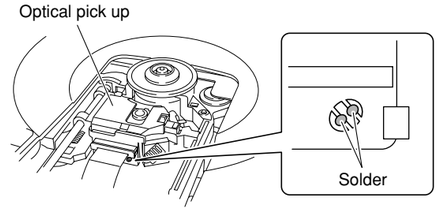


Fig. 3

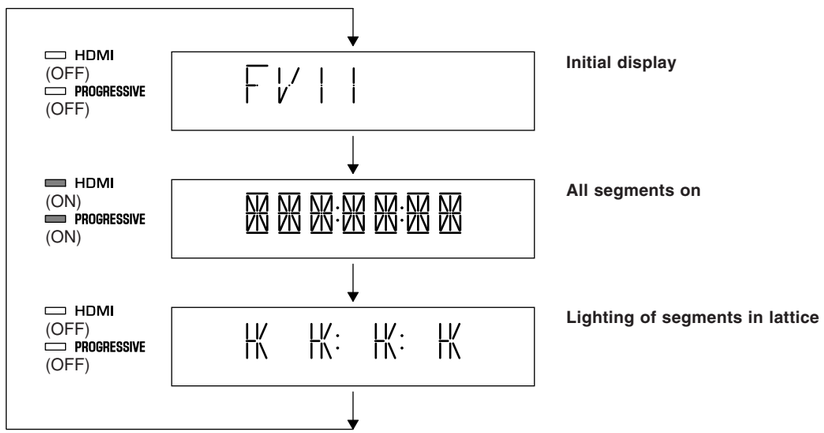
■ TEST MODE

• Starting Test Mode

a. Connect the power cable to the AC power outlet.
b. Press the “STANDBY/ON” key while simultaneously pressing “PAUSE” and “STOP” keys of the main unit.
   At this time, keep pressing “PAUSE” and “STOP” keys for 8 seconds or longer.
c. The “FV xx” (firmware version) is displayed.

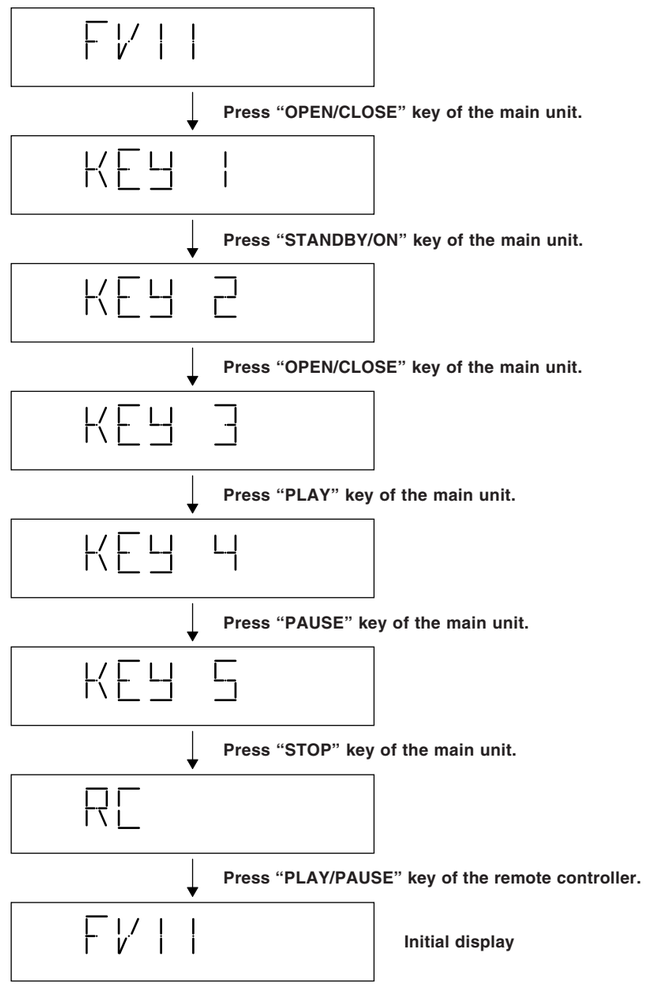
• Display Test

The display condition varies as shown below according to the “PLAY” key of the main unit.



• Panel Key Test

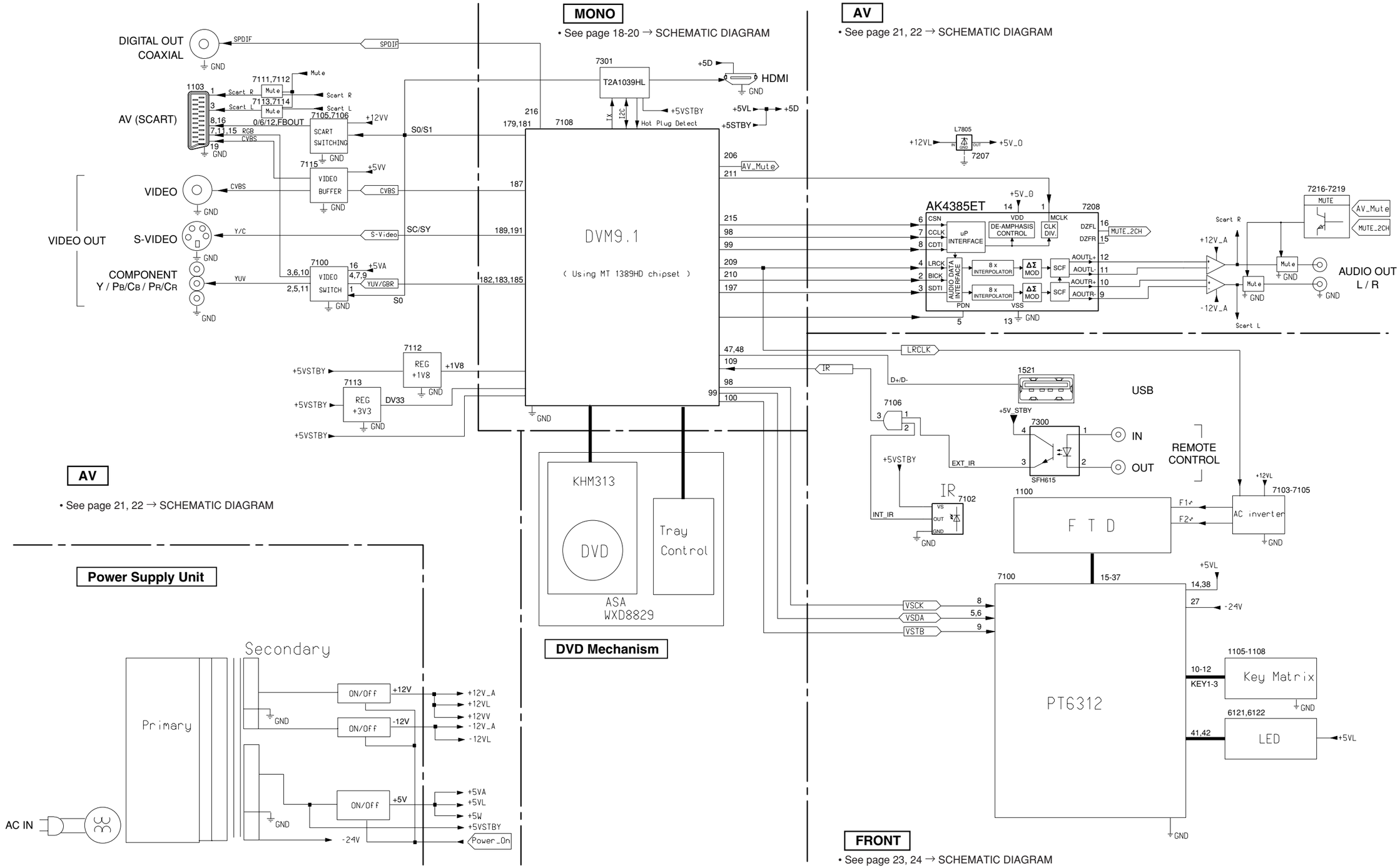
The display changes as shown below as the specified key is pressed.



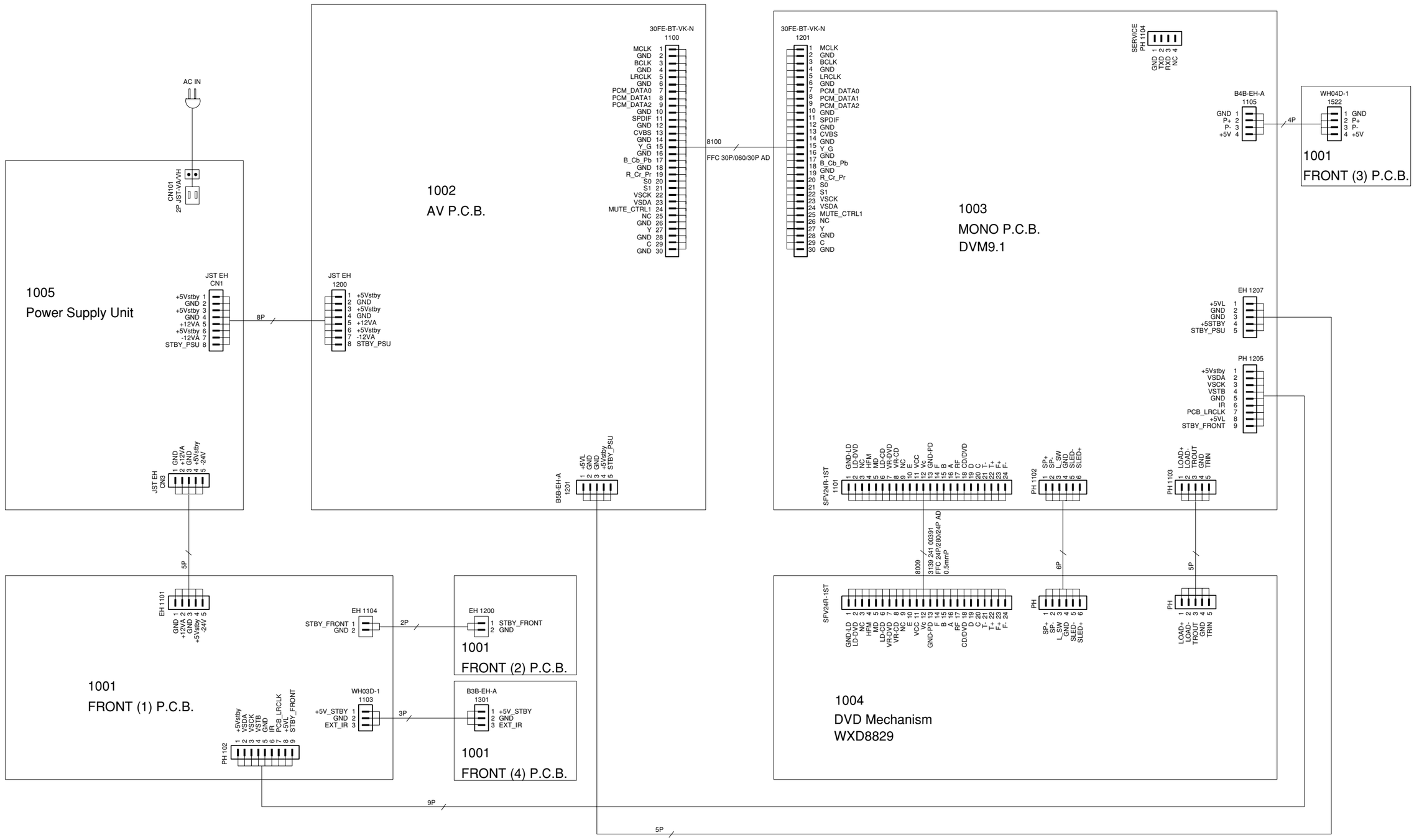
• Canceling Test Mode

Disconnect the power cable from the AC power outlet.

■ BLOCK DIAGRAM



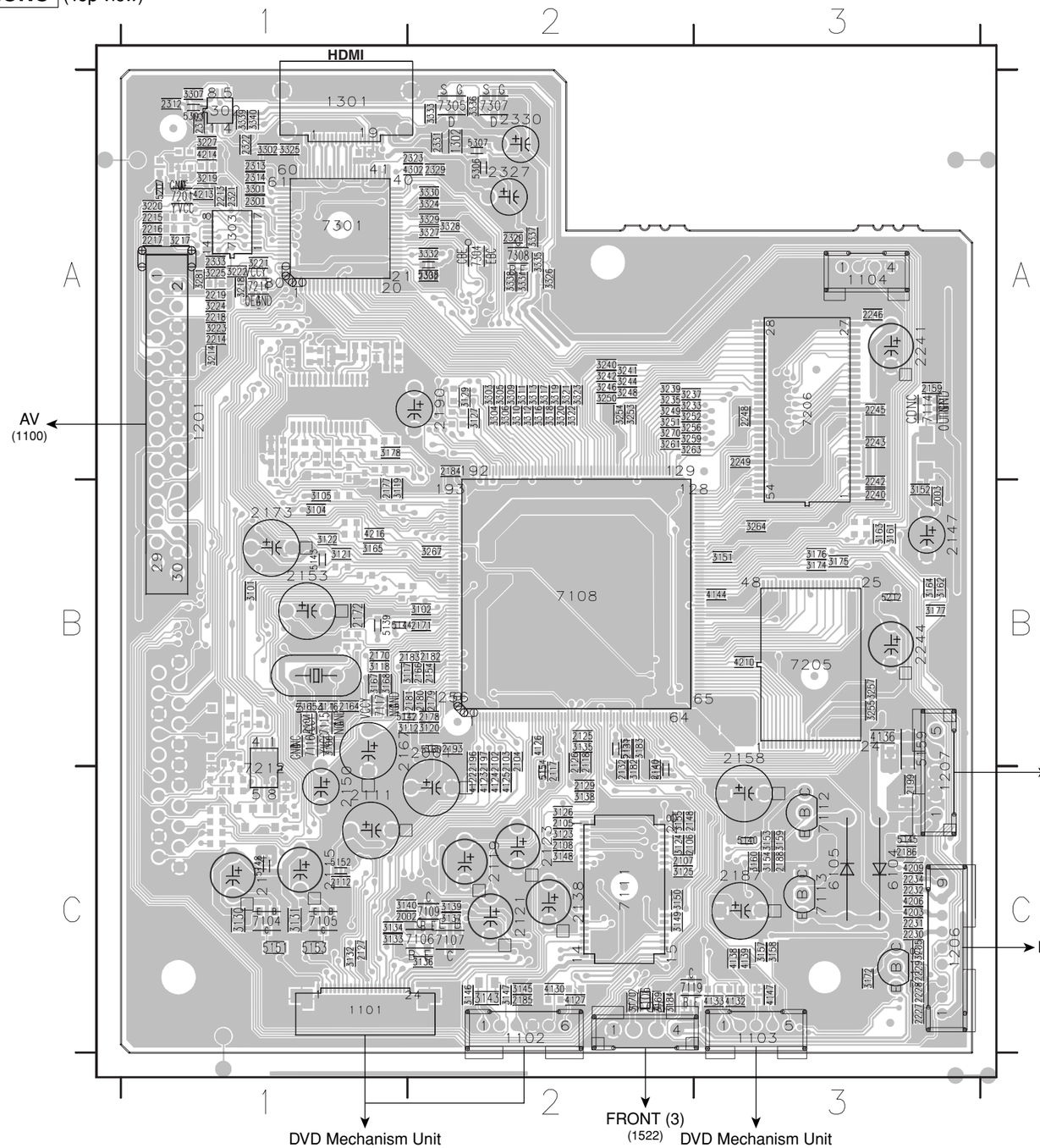
■ WIRING DIAGRAM



■ PRINTED CIRCUIT BOARDS

FOR INFORMATION ONLY (NO SERVICE PARTS WILL BE AVAILABLE)

MONO (Top view)



The first digit of a component indicates the component type.

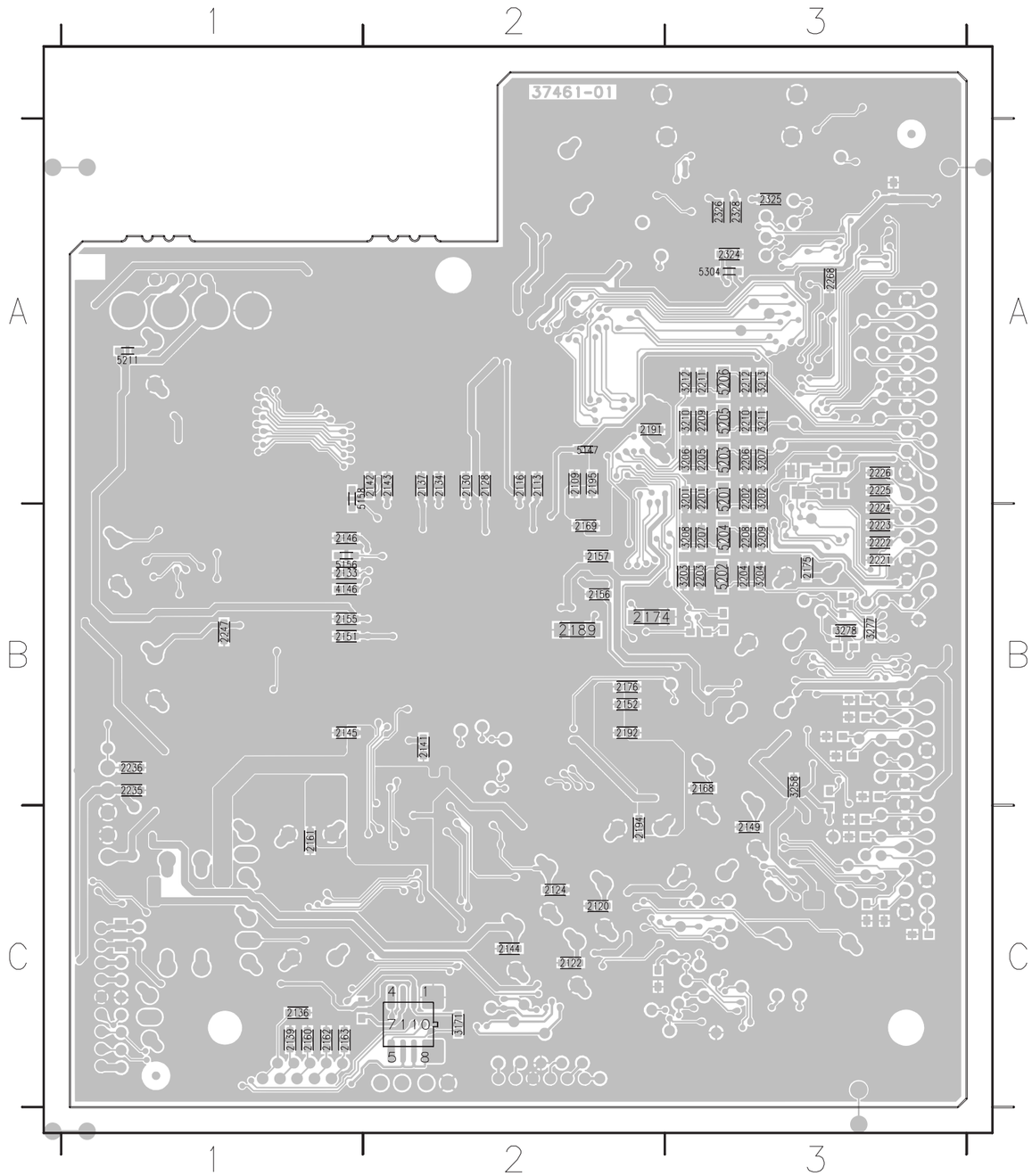
1xxx : Connector 3xxx : Resistor 5xxx : Coil 7xxx : IC, Transistor, FET
2xxx : Capacitor 4xxx : SMD jumper 6xxx : Diode 9xxx : Wire jumper

1101 C1	2183 B2	3124 C2	3227 A1	3340 A1	7201 A1	
1102 C2	2184 A2	3125 C2	3233 A2	4122 C2	7205 B3	
1103 C3	2185 C2	3126 C2	3235 A2	4123 C2	7206 A3	
1104 A3	2186 C3	3127 A2	3237 A2	4124 C2	7212 C1	
1105 C2	2187 C3	3129 A2	3239 A2	4125 C2	7214 A1	
1106 C2	2188 C3	3130 C1	3240 A2	4126 B2	7301 A1	
1201 A1	2190 A2	3131 C1	3241 A2	4127 C2	7302 A1	
1202 A1	2193 B2	3132 C1	3242 A2	4130 C2	7304 A2	
1205 C3	2196 B2	3133 C1	3244 A2	4132 C3	7305 A2	
1206 C3	2197 B2	3134 C1	3246 A2	4133 C3	7307 A2	
1207 C3	2199 C3	3135 B2	3248 A2	4136 B3	7308 A2	
1301 A1	2213 A1	3136 C2	3249 A2	4138 C3		
1302 A2	2214 A1	3137 C2	3250 A2	4139 C3		
2001 B2	2215 A1	3138 C2	3251 A2	4144 B3		
2002 C1	2216 A1	3139 C2	3252 A2	4147 C3		
2003 B3	2217 A1	3140 C1	3253 A2	4203 C3		
2101 B1	2218 A1	3143 C2	3254 A2	4206 C3		
2102 B2	2219 A1	3145 C2	3255 B3	4209 C3		
2103 B2	2227 C3	3146 C2	3256 A2	4210 B3		
2104 B2	2228 C3	3147 C2	3257 B3	4213 A1		
2105 C2	2229 C3	3148 C2	3259 A2	4214 A1		
2106 C2	2230 C3	3149 C2	3261 A2	4216 B1		
2107 C2	2231 C3	3150 C2	3263 A2	4302 A2		
2108 C2	2232 C3	3151 B3	3264 B3	5139 B1		
2111 C1	2234 C3	3152 B3	3267 B2	5140 C3		
2112 C1	2240 B3	3153 C3	3270 A2	5141 B1		
2114 C1	2241 A3	3154 C3	3281 A1	5142 B1		
2115 C1	2242 B3	3155 C2	3301 A1	5143 B1		
2117 C2	2243 A3	3157 C3	3302 A1	5144 B1		
2118 B2	2244 B3	3158 C3	3303 A2	5145 C3		
2119 C2	2245 A3	3159 C3	3304 A2	5148 C1		
2121 C2	2246 A3	3160 C3	3305 A2	5151 C1		
2123 C2	2248 A3	3161 B3	3306 A2	5152 C1		
2125 B2	2249 A3	3162 B3	3307 A1	5153 C1		
2126 B2	2301 A1	3163 B3	3309 A2	5154 C2		
2127 C1	2312 A1	3164 B3	3310 A2	5155 B2		
2129 C2	2313 A1	3165 B1	3311 A2	5157 C2		
2131 B2	2314 A1	3166 B1	3312 A2	5159 B3		
2132 C2	2315 A1	3167 B1	3313 A2	5160 B2		
2138 C2	2320 A2	3168 B1	3316 A2	5207 A1		
2140 C2	2321 A1	3169 C2	3317 A2	5212 B3		
2147 B3	2322 A1	3170 C2	3318 A2	5303 A1		
2148 C2	2323 A2	3172 C3	3319 A2	5306 A2		
2150 C1	2327 A2	3174 B3	3320 A2	5307 A2		
2153 B1	2329 A2	3175 B3	3321 A2	5308 A2		
2154 B2	2330 A2	3176 B3	3322 A2	6104 C3		
2158 B3	2331 A2	3177 B3	3323 A2	6105 C3		
2159 A3	2332 A2	3178 A1	3324 A2	7104 C1		
2164 B1	2333 A1	3182 C2	3325 A1	7105 C1		
2165 B1	3101 B1	3183 B2	3326 A2	7106 C2		
2166 B2	3102 B2	3184 C2	3327 A2	7107 C2		
2167 B1	3104 B1	3205 C3	3328 A2	7108 B2		
2170 B1	3105 B1	3214 A1	3329 A2	7109 C2		
2171 B2	3112 B2	3217 A1	3330 A2	7111 C2		
2172 B1	3116 B1	3218 A1	3331 A2	7112 C3		
2173 B1	3117 B1	3219 A1	3332 A2	7113 C3		
2177 B1	3118 B1	3220 A1	3333 A2	7114 A3		
2178 B2	3119 B1	3221 A1	3335 A2	7115 B1		
2179 B2	3120 B2	3222 A1	3336 A2	7116 B1		
2180 B2	3121 B1	3223 A1	3337 A2	7117 B1		
2181 B2	3122 B1	3224 A1	3338 A2	7118 C3		
2182 B2	3123 C2	3225 A1	3339 A1	7119 C2		

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

MONO (Bottom view)



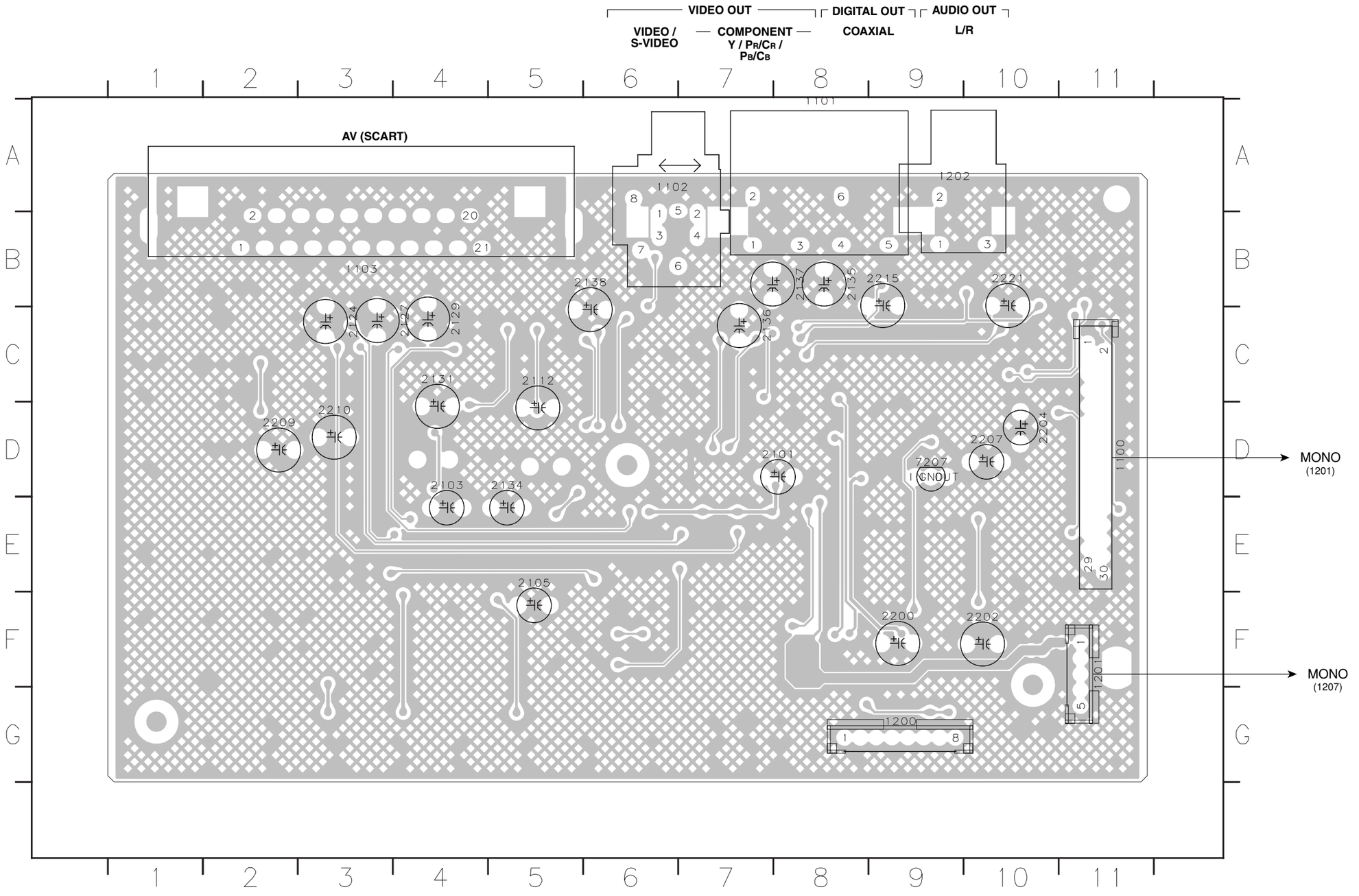
2109	A2	2325	A3
2113	A2	2326	A3
2116	A2	2328	A3
2120	C2	3171	C2
2122	C2	3201	A3
2124	C2	3202	A3
2128	A2	3203	B3
2130	A2	3204	B3
2133	B1	3206	A3
2134	A2	3207	A3
2136	C1	3208	B3
2137	A2	3209	B3
2139	C1	3210	A3
2141	B2	3211	A3
2142	A2	3212	A3
2143	A2	3213	A3
2144	C2	3258	B3
2145	B1	3277	B3
2146	B1	3278	B3
2149	C3	4146	B1
2151	B1	5147	A2
2152	B2	5156	B1
2155	B1	5158	A1
2156	B2	5201	A3
2157	B2	5202	B3
2160	C1	5203	A3
2161	C1	5204	B3
2162	C1	5205	A3
2163	C1	5206	A3
2168	B3	5211	A1
2169	B2	5304	A3
2174	B2	7110	C2
2175	B3		
2176	B2		
2189	B2		
2191	A2		
2192	B2		
2194	C2		
2195	A2		
2201	A3		
2202	A3		
2203	B3		
2204	B3		
2205	A3		
2206	A3		
2207	B3		
2208	B3		
2209	A3		
2210	A3		
2211	A3		
2212	A3		
2221	B3		
2222	B3		
2223	B3		
2224	B3		
2225	A3		
2226	A3		
2235	B1		
2236	B1		
2247	B1		
2268	A3		
2324	A3		

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 (Top view)

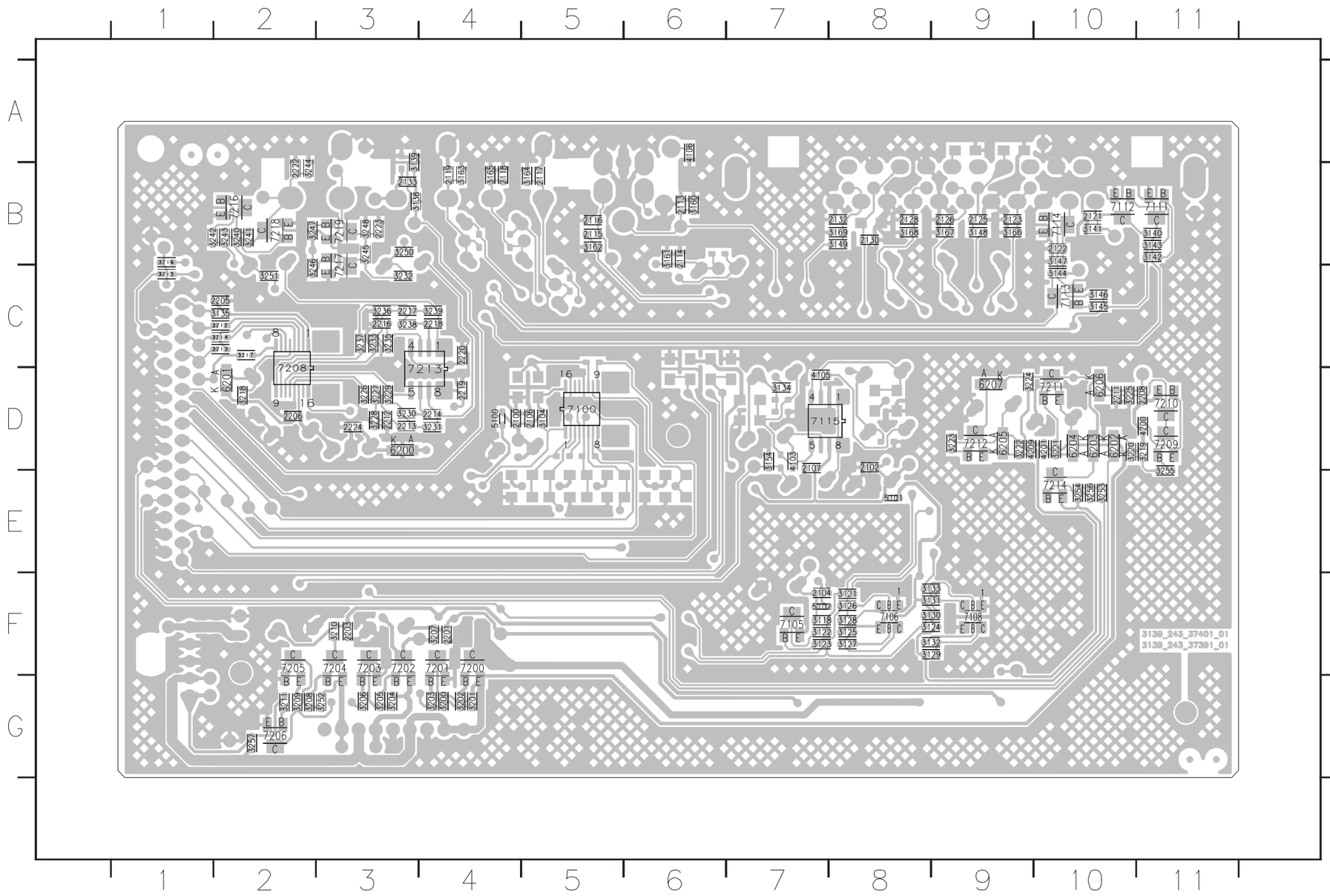
1100 D11
1101 A8
1102 A6
1103 B3
1200 G9
1201 F11
1202 A9
2101 D8
2103 D4
2105 E5
2112 C5
2124 C3
2127 C4
2129 C4
2131 C4
2134 D5
2135 B8
2136 C7
2137 B8
2138 B6
2200 F9
2202 F10
2204 D10
2207 D10
2209 D2
2210 D3
2215 B9
2221 B10
7207 D9



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 (Bottom view)



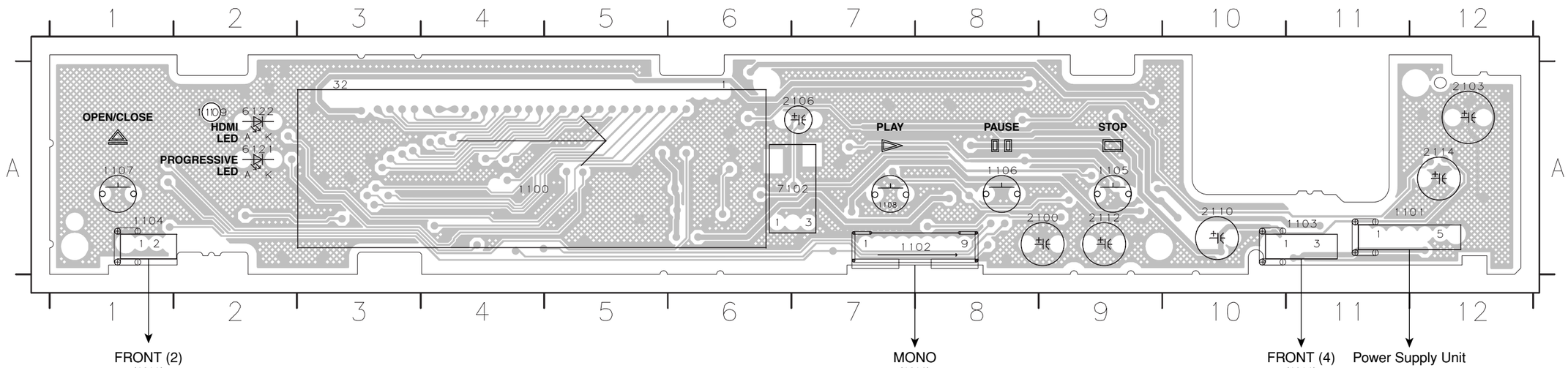
2100	D4	3164	B5	6201	D2
2102	D8	3165	B4	6202	D10
2104	F7	3166	B9	6203	D10
2106	D5	3167	B9	6204	D10
2107	D7	3168	B8	6205	D9
2113	B6	3169	B8	6206	D10
2114	B6	3200	G4	6207	D9
2115	B5	3201	G4	7100	D5
2116	B5	3202	G4	7105	F7
2117	B5	3203	G4	7106	F8
2118	B4	3204	G3	7108	F9
2119	B4	3205	G3	7111	B11
2121	B10	3206	G3	7112	B10
2122	B10	3207	F4	7113	C10
2123	B9	3208	G2	7114	B10
2125	B9	3209	G2	7115	D7
2126	B9	3210	F3	7200	F4
2128	B8	3211	G2	7201	F4
2130	B8	3212	C2	7202	F3
2132	B8	3213	C2	7203	F3
2133	B3	3214	C2	7204	F3
2201	F4	3215	C1	7205	F2
2203	F3	3216	B1	7206	G2
2205	C2	3217	C2	7208	D2
2206	D2	3218	D2	7209	D11
2208	D11	3219	D11	7210	D11
2211	D10	3220	D10	7211	D10
2212	D3	3221	D10	7212	D9
2213	D3	3222	D9	7213	D4
2214	D4	3223	D9	7214	E10
2216	C3	3224	D9	7216	B2
2217	C3	3225	D10	7217	C3
2218	C4	3226	D3	7218	B2
2219	D4	3227	D3	7219	B3
2220	C4	3228	D3		
2222	B2	3229	D3		
2223	B3	3230	D4		
2224	D3	3231	D4		
3104	D5	3232	C3		
3118	F7	3233	C3		
3121	F8	3235	C3		
3122	F7	3236	C3		
3123	F7	3237	C3		
3124	F8	3238	C3		
3125	F8	3239	C4		
3126	F8	3240	B2		
3127	F8	3241	B2		
3128	F8	3242	B1		
3129	F8	3243	B2		
3130	F8	3244	B2		
3131	F8	3245	B3		
3132	F8	3246	C2		
3133	F8	3247	B2		
3134	D7	3248	B3		
3135	C2	3250	B3		
3138	B3	3251	C2		
3139	A3	3252	G3		
3140	B11	3253	E10		
3141	B10	3254	E10		
3142	B11	3255	E11		
3143	B11	3256	E10		
3144	C10	3257	G2		
3145	C10	4103	D7		
3146	C10	4105	D7		
3147	B10	4106	A6		
3148	B9	4200	D11		
3149	B8	4201	D10		
3154	D7	4209	D9		
3160	B6	5100	D4		
3161	B6	5101	E8		
3162	B5	5102	E7		
3163	B4	6200	D3		

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

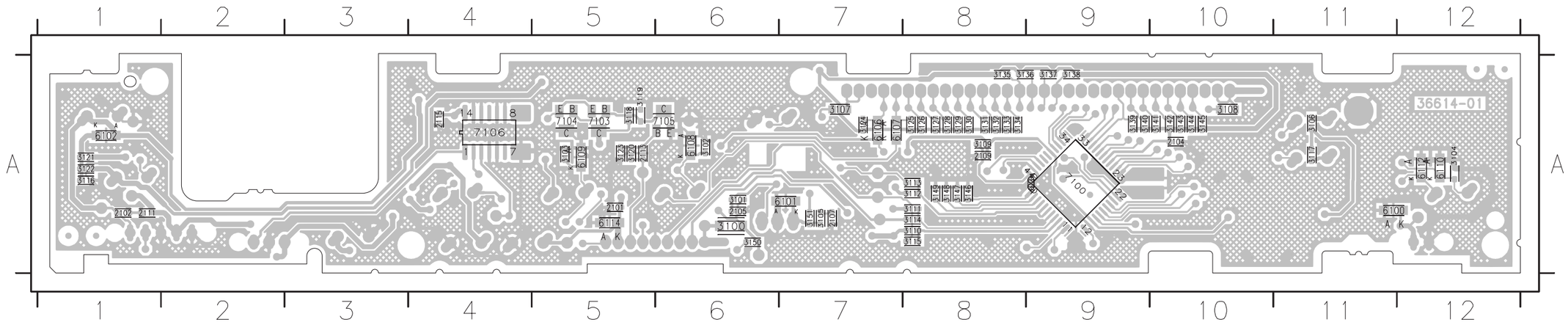
FRONT (1) (Top view)

1100 A4
1101 A11
1102 A7
1103 A11
1104 A1
1105 A9
1106 A8
1107 A1
1108 A7
1109 A2
2100 A9
2103 A12
2106 A7
2110 A10
2112 A9
2114 A12
6121 A2
6122 A2
7102 A7



FRONT (1) (Bottom view)

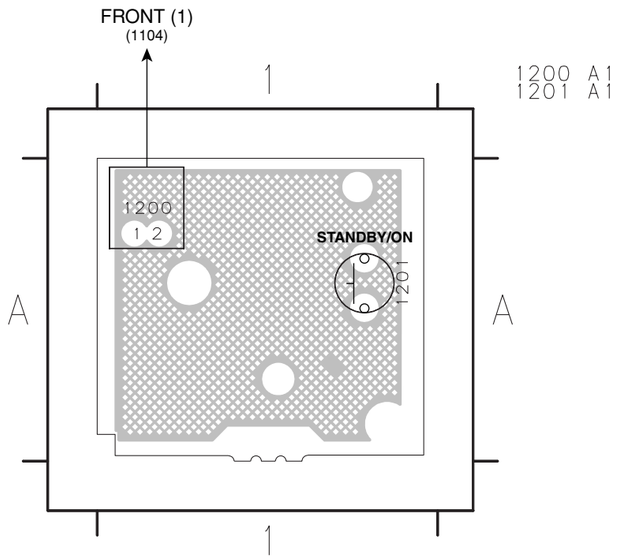
2101 A5
2102 A1
2104 A10
2105 A6
2107 A7
2109 A8
2111 A1
2113 A5
2115 A4
3100 A6
3101 A6
3102 A6
3103 A5
3104 A12
3105 A7
3106 A11
3107 A7
3108 A10
3109 A8
3110 A8
3111 A8
3112 A8
3113 A8
3114 A8
3115 A8
3116 A5
3117 A11
3118 A5
3119 A5
3120 A5
3121 A1
3122 A1
3123 A5
3124 A7
3125 A8
3126 A8
3127 A8
3128 A8
3129 A8
3130 A8
3131 A8
3132 A8
3133 A8
3134 A8
3135 A8
3136 A8
3137 A9
3138 A9
3139 A9
3140 A9
3141 A10
3142 A10
3143 A10
3144 A10
3145 A10
3146 A8
3147 A8
3148 A8
3149 A8
3150 A6
3151 A7
6100 A11
6101 A7
6102 A1
6106 A7
6107 A7
6108 A6
6109 A5
6110 A12
6112 A12
6114 A5
7100 A9
7103 A5
7104 A5
7105 A5
7106 A4



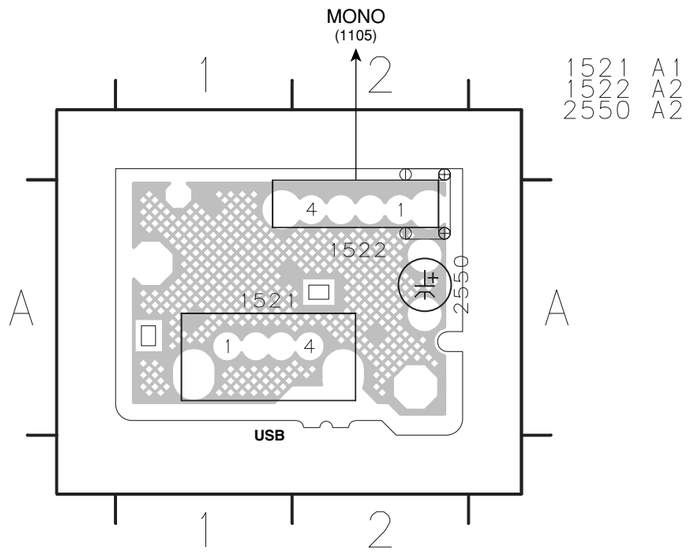
The first digit of a component indicates the component type.

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

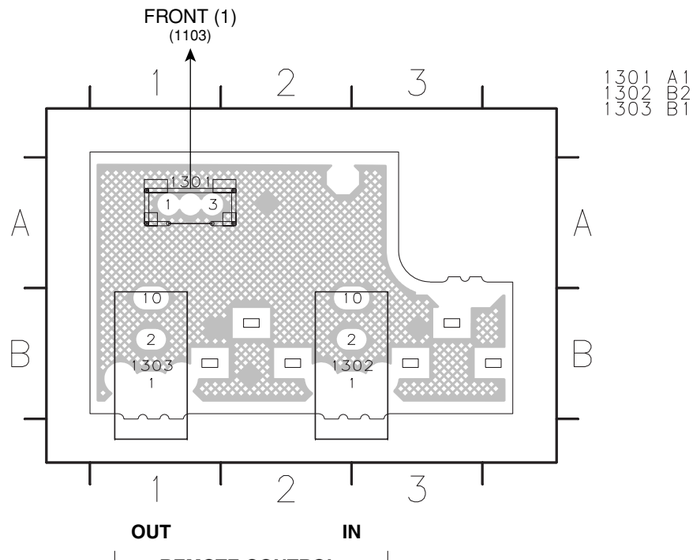
FRONT (2) (Top view)



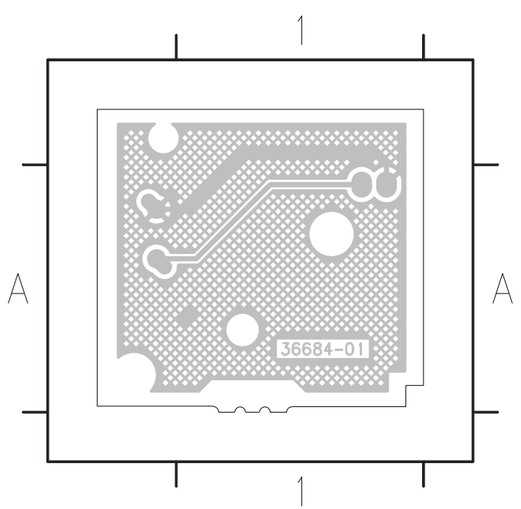
FRONT (3) (Top view)



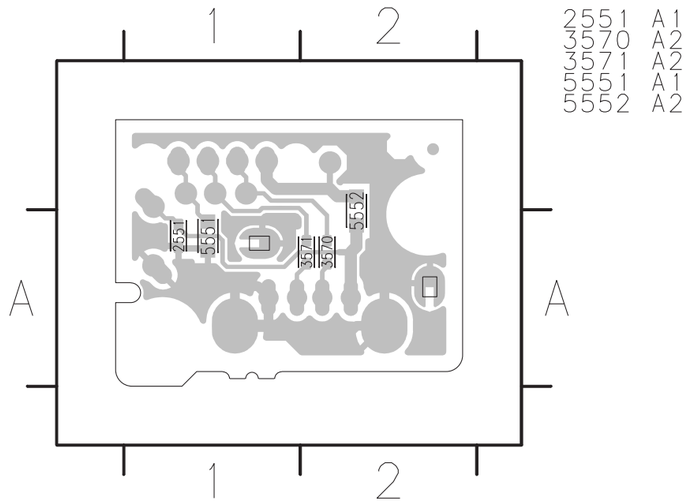
FRONT (4) (Top view)



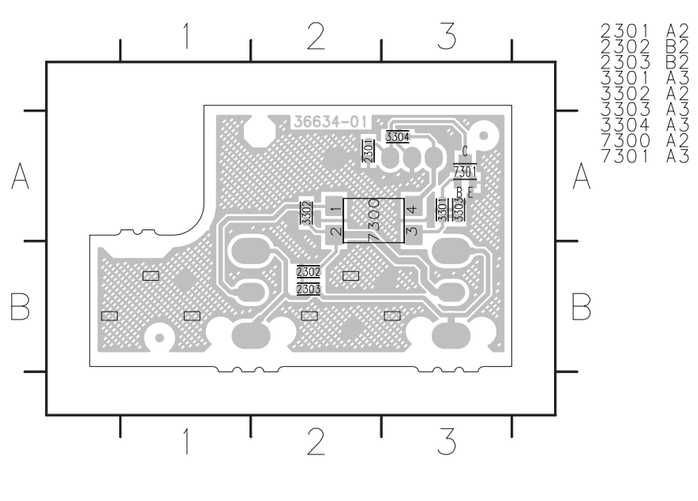
FRONT (2) (Bottom view)



FRONT (3) (Bottom view)



FRONT (4) (Bottom view)



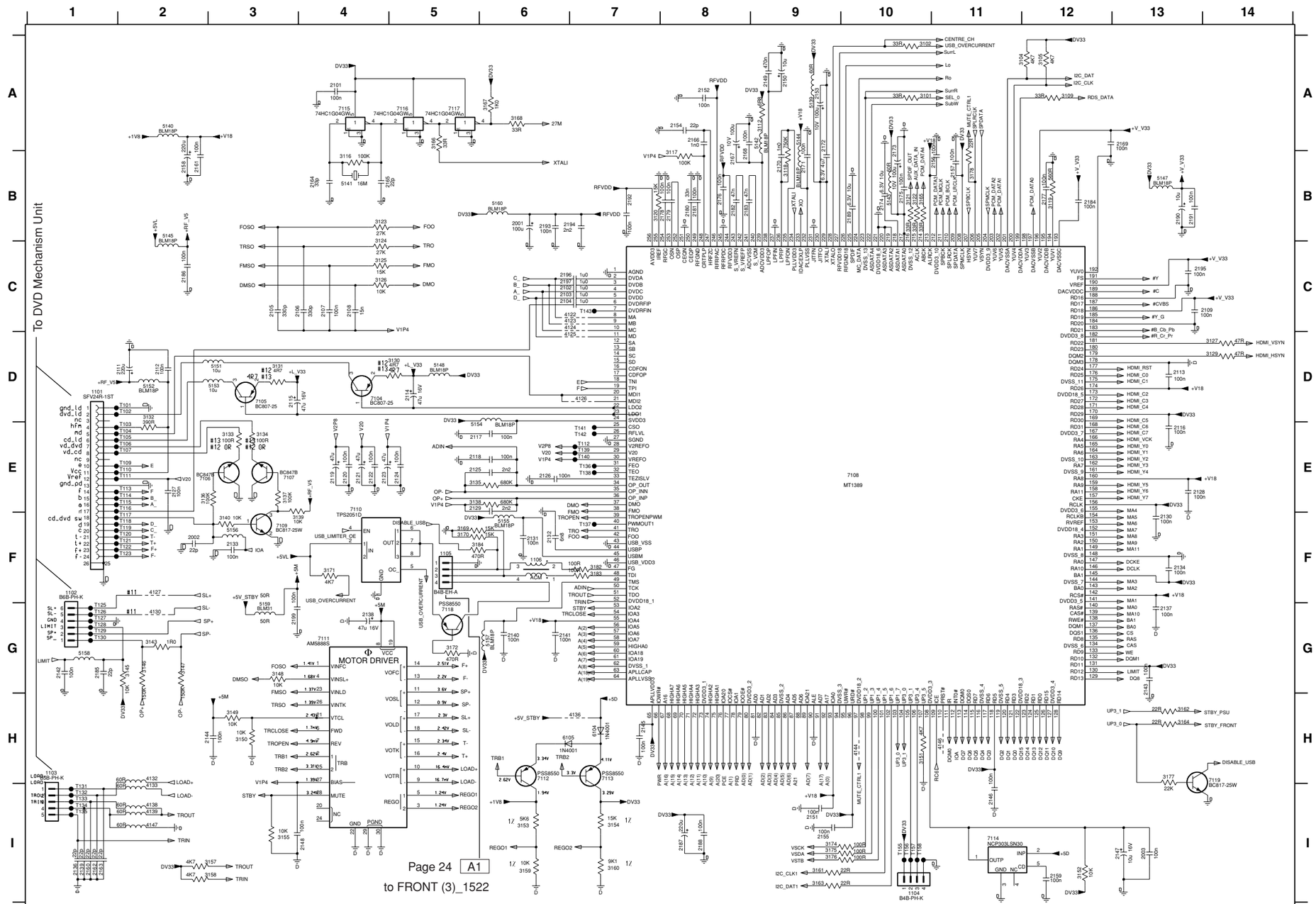
■ SCHEMATIC DIAGRAMS

FOR INFORMATION ONLY (NO SERVICE PARTS WILL BE AVAILABLE)

MONO 1/3

The first digit of a component indicates the component type.

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



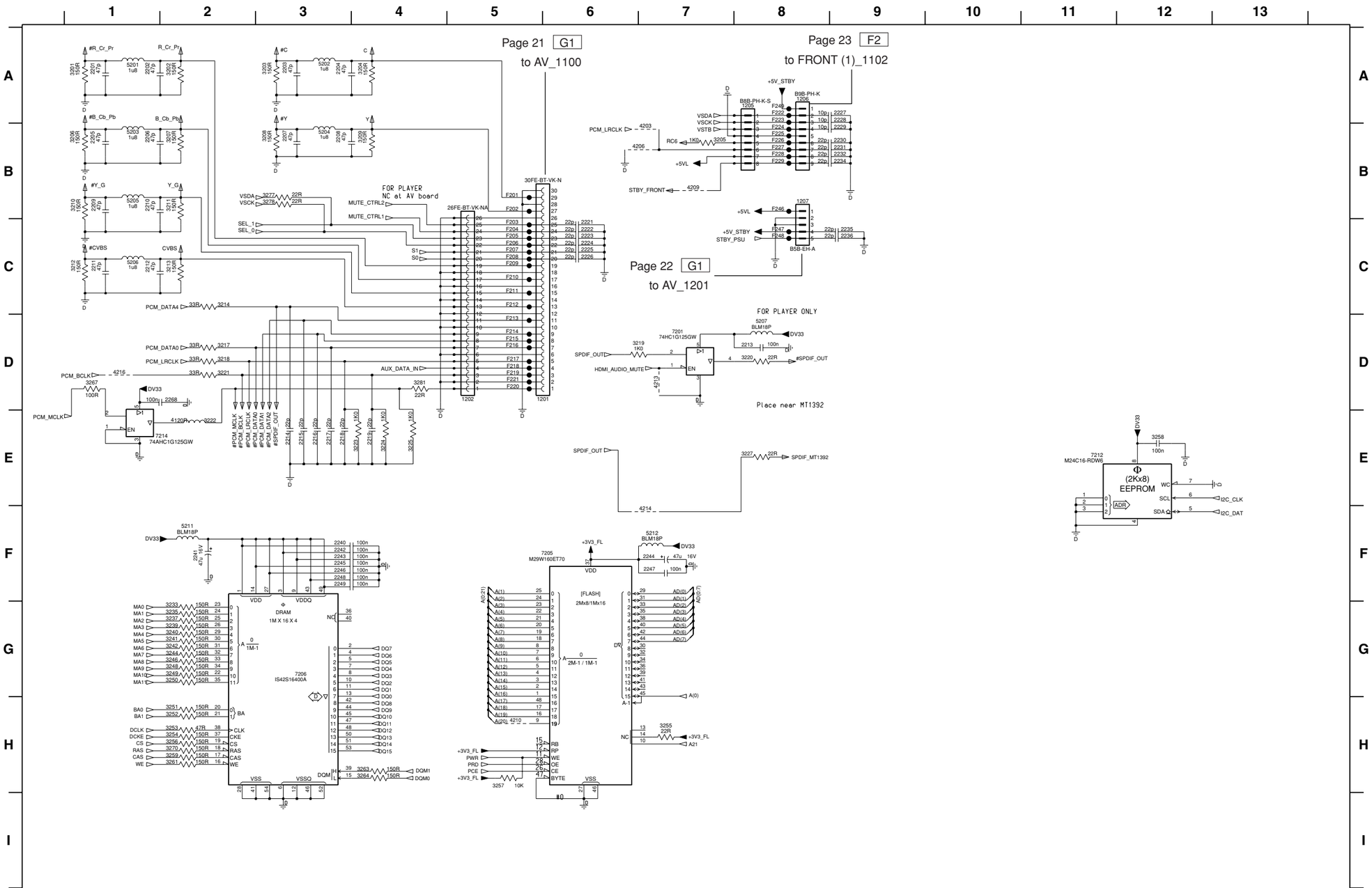
★ Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.

★ Schematic diagram is subject to change without notice.

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

MONO 2/3



1201 D6
1202 D5
1204 A11
1205 A8
1206 A8
1207 B8
1208 A12
2201 A1
2202 A1
2203 A3
2204 A3
2205 B1
2206 B1
2207 B3
2208 B3
2209 B1
2210 B1
2211 C1
2212 C1
2213 D8
2214 E3
2215 E3
2216 E3
2217 E3
2218 E3
2219 E4
2221 C6
2222 C6
2223 C6
2224 C6
2225 C6
2226 C6
2227 A9
2228 A9
2229 B9
2230 B9
2231 B9
2232 B9
2234 B9
2235 C9
2236 C9
2240 F3
2241 F2
2242 F3
2243 F3
2244 F7
2245 F3
2246 F3
2247 F7
2248 F3
2249 F3
2266 B13
2267 B13
2268 D2
2269 A13
3201 A1
3202 A2
3203 A3
3204 A4
3205 B7
3206 B1
3207 B2
3208 B3
3209 B4
3210 B1
3211 B2
3212 C1
3213 C2
3214 C2
3217 D2
3218 D2
3219 D7
3220 D8
3221 D2
3222 E2
3223 E4
3224 E4
3225 E4
3227 E8
3233 G2
3235 G2
3237 G2
3239 G2
3240 G2
3241 G2
3242 G2
3244 G2
3246 G2
3248 G2
3249 G2
3250 G2
3251 H2
3252 H2
3253 H2
3254 H2
3255 H7
3256 H2
3257 H5
3258 E12
3259 H2
3261 H2
3263 H4
3264 H4
3267 D1
3270 H2
3277 B3
3278 B3
3281 D4
4203 B7
4206 B7
4209 B7
4210 H5
4213 D7
4214 F7
4216 D1
5201 A1
5202 A3
5203 B1
5204 B3
5205 B1
5206 C1
5207 D8
5211 F2
5212 F7
7201 D7
7205 F5
7206 G3
7212 E11
7214 E2
F201 B5
F202 B5
F203 C5
F204 C5
F205 C5
F206 C5
F207 C5
F208 C5
F209 C5
F210 C5
F211 C5
F212 C5
F213 D5
F214 D5
F215 D5
F216 D5
F217 D5
F218 D5
F219 D5
F220 D5
F221 D5
F222 A8
F223 A8
F224 B8
F225 B8
F226 B8
F227 B8
F228 B8
F229 B8
F230 A12
F231 A12
F232 A12
F233 B12
F234 B12
F235 B12
F236 B12
F237 B12
F238 C12
F239 B12
F240 B12
F241 B12
F242 B12
F243 B12
F244 C11
F245 B12
F246 B8
F247 C8
F248 C8
F249 A8

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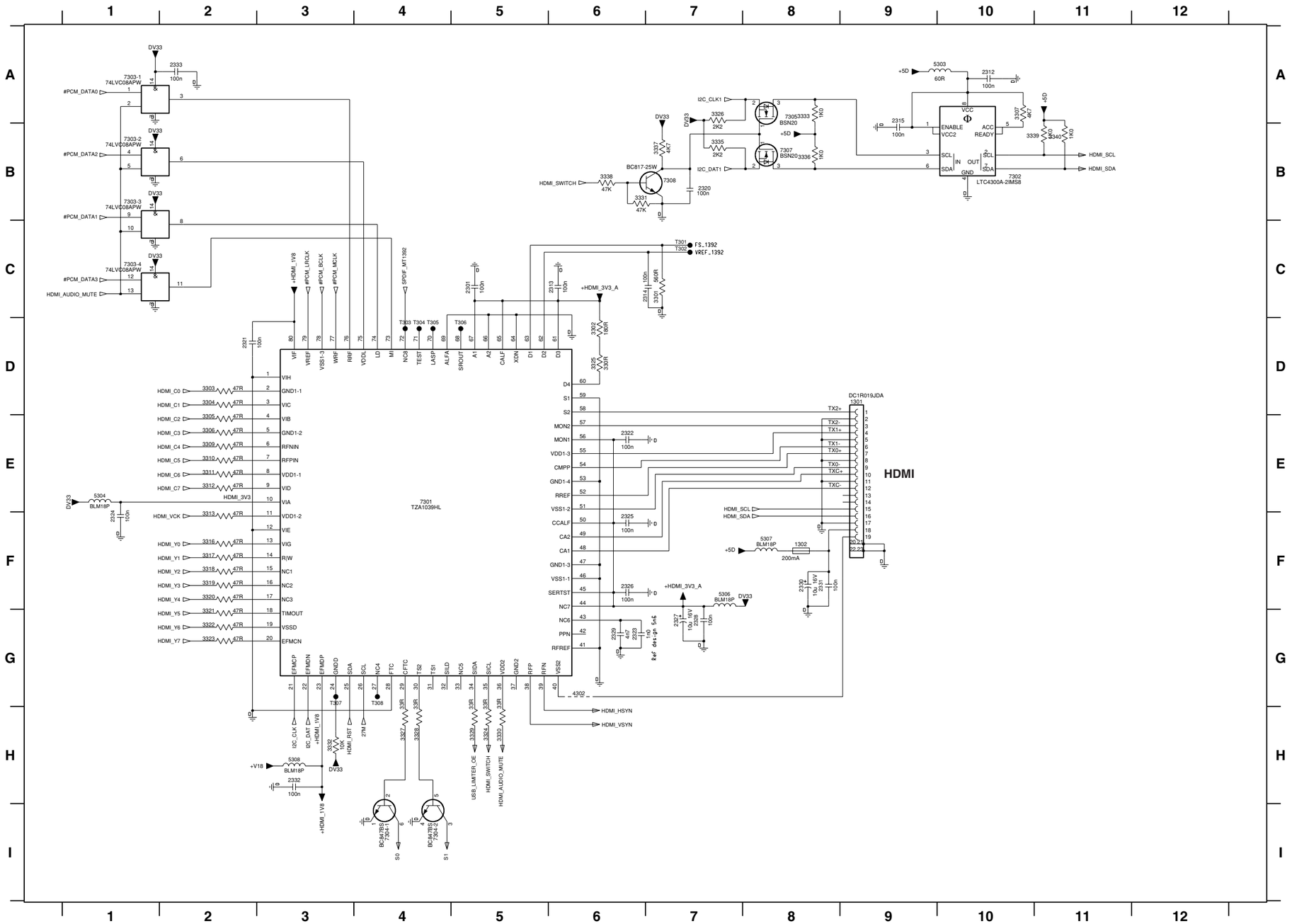
★ Schematic diagram is subject to change without notice.

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

MONO 3/3



1301 D9
1302 F8
2301 C5
2312 A10
2313 C6
2314 C7
2315 A9
2320 B7
2321 D2
2322 E6
2323 G6
2324 F1
2325 F6
2326 F6
2327 G7
2328 G7
2329 G6
2330 F8
2331 F8
2332 H3
2333 A2
3301 C7
3302 D6
3303 D2
3304 D2
3305 E2
3306 E2
3307 A10
3309 E2
3310 E2
3311 E2
3312 E2
3313 F2
3316 F2
3317 F2
3318 F2
3319 F2
3320 F2
3321 G2
3322 G2
3323 G2
3324 H5
3325 D6
3326 A7
3327 H4
3328 H4
3329 H5
3330 H5
3331 B6
3332 H3
3333 A8
3335 B7
3336 B8
3337 B7
3338 B6
3339 B10
3340 B11
4302 G6
5303 A10
5304 E1
5306 F7
5307 F8
5308 H3
7301 E4
7302 B10
7303-1 A1
7303-2 B1
7303-3 B1
7303-4 C1
7304-1 I4
7304-2 I4
7305 A8
7307 B8
7308 B7
T301 C7
T302 C7
T303 D4
T304 D4
T305 D4
T306 D5
T307 G3
T308 G4

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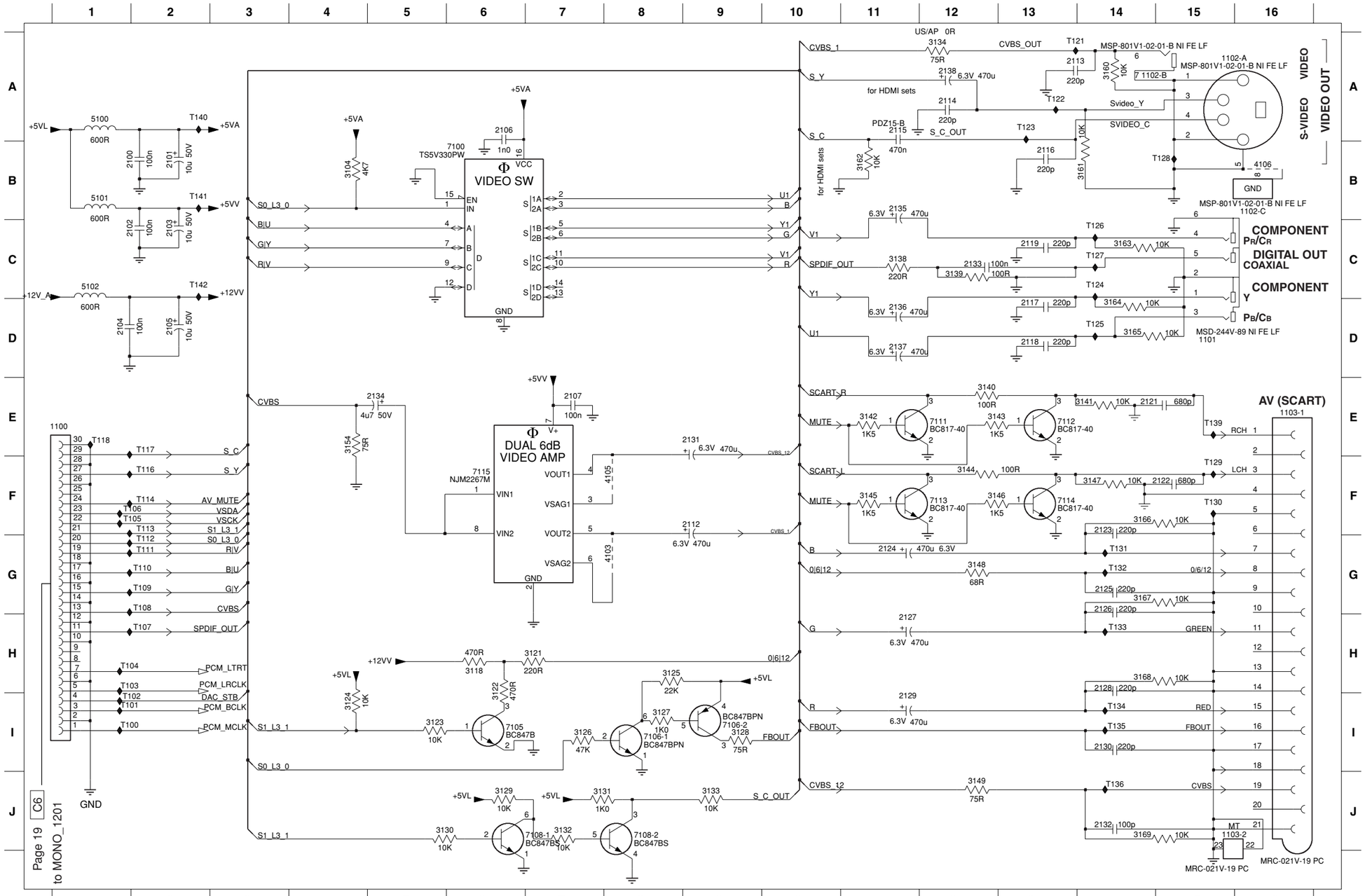
★ Schematic diagram is subject to change without notice.

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

AV 1/2



1100 E1	5102 C1
1101 D16	7100 B6
1102-A A16	7105 I6
1102-B A14	7106-1 I8
1102-C B16	7106-2 I9
1103-1 E16	7108-1 J7
1103-2 J15	7108-2 J8
2100 B2	7111 E12
2101 B2	7112 E13
2102 C2	7113 F12
2103 C2	7114 F13
2104 D1	7115 F6
2105 D2	T100 I1
2106 A6	T101 I1
2107 E7	T102 I2
2112 F9	T103 H1
2113 A13	T104 H1
2114 A12	T105 F2
2115 A11	T106 F2
2116 B13	T107 H2
2117 D13	T108 G2
2118 D13	T109 G2
2119 C13	T110 G2
2121 E14	T111 G2
2122 F15	T112 G2
2123 F14	T113 F2
2124 G11	T114 F2
2125 G14	T116 F2
2126 G14	T117 E2
2127 H11	T118 E1
2128 H14	T121 A13
2129 I11	T122 A13
2130 I14	T123 A13
2131 E9	T124 C14
2132 J14	T125 D14
2133 C12	T126 C14
2134 E5	T127 C14
2135 B11	T128 B15
2136 D11	T129 F15
2137 D11	T130 F15
2138 A12	T131 G14
3104 B4	T132 G14
3118 H6	T133 H14
3121 H7	T134 I14
3122 H6	T135 I14
3123 I5	T136 J14
3124 I4	T139 E15
3125 H8	T140 A2
3126 I7	T141 B2
3127 I8	T142 C2
3128 I9	
3129 J6	
3130 J5	
3131 J7	
3132 J7	
3133 J9	
3134 A12	
3138 C11	
3139 C12	
3140 E12	
3141 E14	
3142 E11	
3143 E12	
3144 F12	
3145 F11	
3146 F12	
3147 F14	
3148 G12	
3149 J12	
3154 E4	
3160 A14	
3161 B14	
3162 B11	
3163 C14	
3164 D14	
3165 D14	
3166 F14	
3167 G14	
3168 H14	
3169 J14	
4103 G8	
4105 F8	
4106 B16	
5100 A1	
5101 B1	

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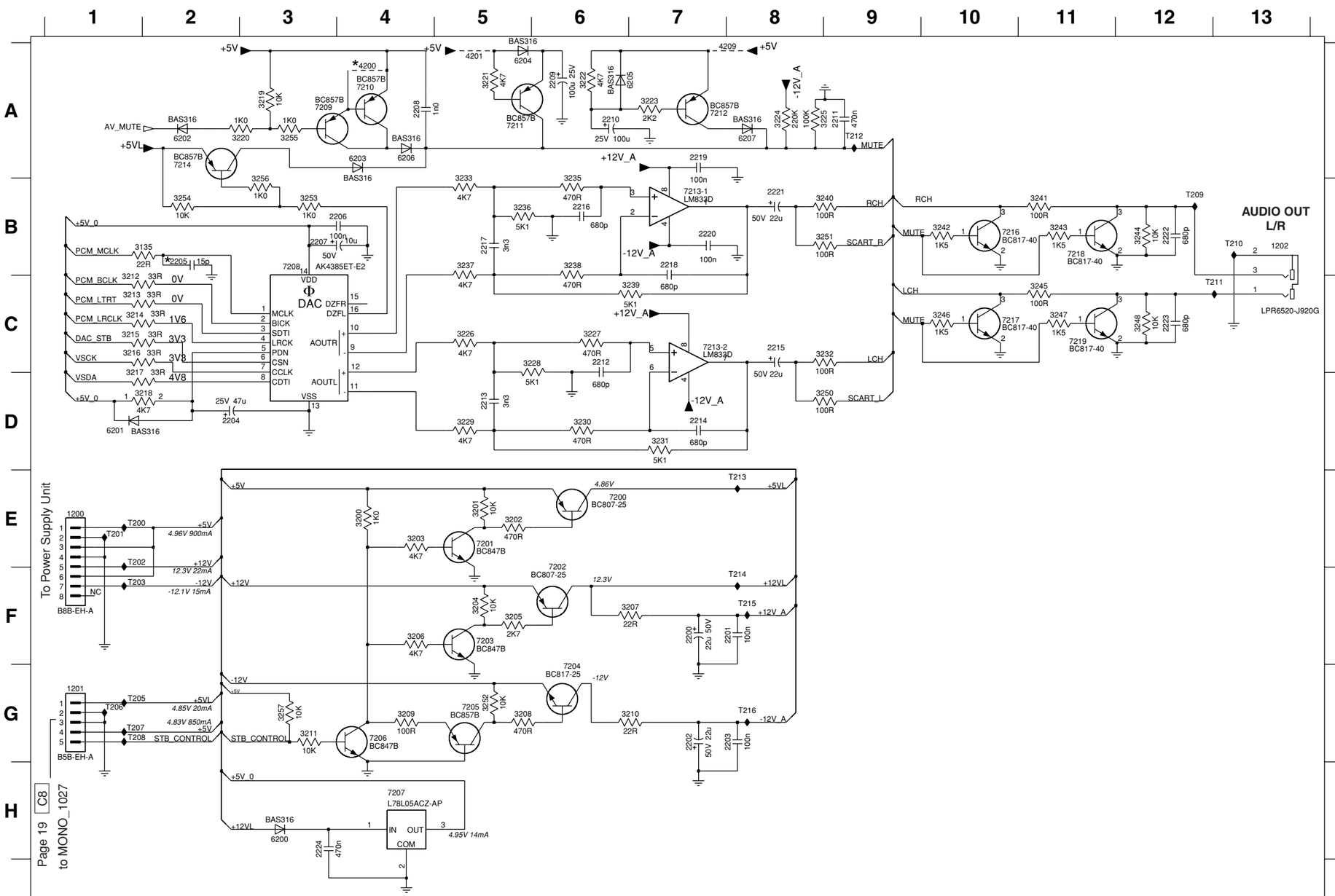
★ Schematic diagram is subject to change without notice.

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

AV 2/2



1200 E1	3256 B3	
1201 G1	3257 G3	
1202 B13	4200 A4	
2200 F7	4201 A5	
2201 F8	4209 A8	
2202 G7	6200 H3	
2203 G8	6201 D1	
2204 D2	6202 A2	
2205 B2	6203 A4	
2206 B4	6204 A5	
2207 B3	6205 A6	
2208 A4	6206 A4	
2209 A6	6207 A8	
2210 A6	7200 E6	
2211 A9	7201 E5	
2212 C6	7202 F6	
2213 D5	7203 F5	
2214 D7	7204 G6	
2215 C8	7205 G5	
2216 B6	7206 G4	
2217 B5	7207 H4	
2218 B7	7208 B3	
2219 A7	7209 A3	
2220 B7	7210 A4	
2221 B8	7211 A5	
2222 B12	7212 A7	
2223 C12	7213-1 B7	
2224 H3	7213-2 C7	
3135 B2	7214 A2	
3200 E4	7216 B10	
3201 E5	7217 C10	
3202 E5	7218 B11	
3203 E4	7219 C11	
3204 F5	T200 E1	
3205 F5	T201 E1	
3206 F4	T202 E1	
3207 F7	T203 F1	
3208 G5	T205 G1	
3209 G4	T206 G1	
3210 G7	T207 G1	
3211 G3	T208 G1	
3212 C1	T209 B12	
3213 C1	T210 B13	
3214 C1	T211 C13	
3215 C1	T212 A9	
3216 C1	T213 E8	
3217 D1	T214 F8	
3218 D2	T215 F8	
3219 A3	T216 G8	
3220 A3		
3221 A5		
3222 A6		
3223 A7		
3224 A8		
3225 A8		
3226 C5		
3227 C6		
3228 C6		
3229 D5		
3230 D6		
3231 D7		
3232 C9		
3233 B5		
3235 B6		
3236 B5		
3237 B5		
3238 B6		
3239 C7		
3240 B9		
3241 B11		
3242 B10		
3243 B11		
3244 B12		
3245 C11		
3246 C10		
3247 C11		
3248 C12		
3250 D9		
3251 B9		
3252 G5		
3253 B3		
3254 B2		
3255 A3		

* OPTION

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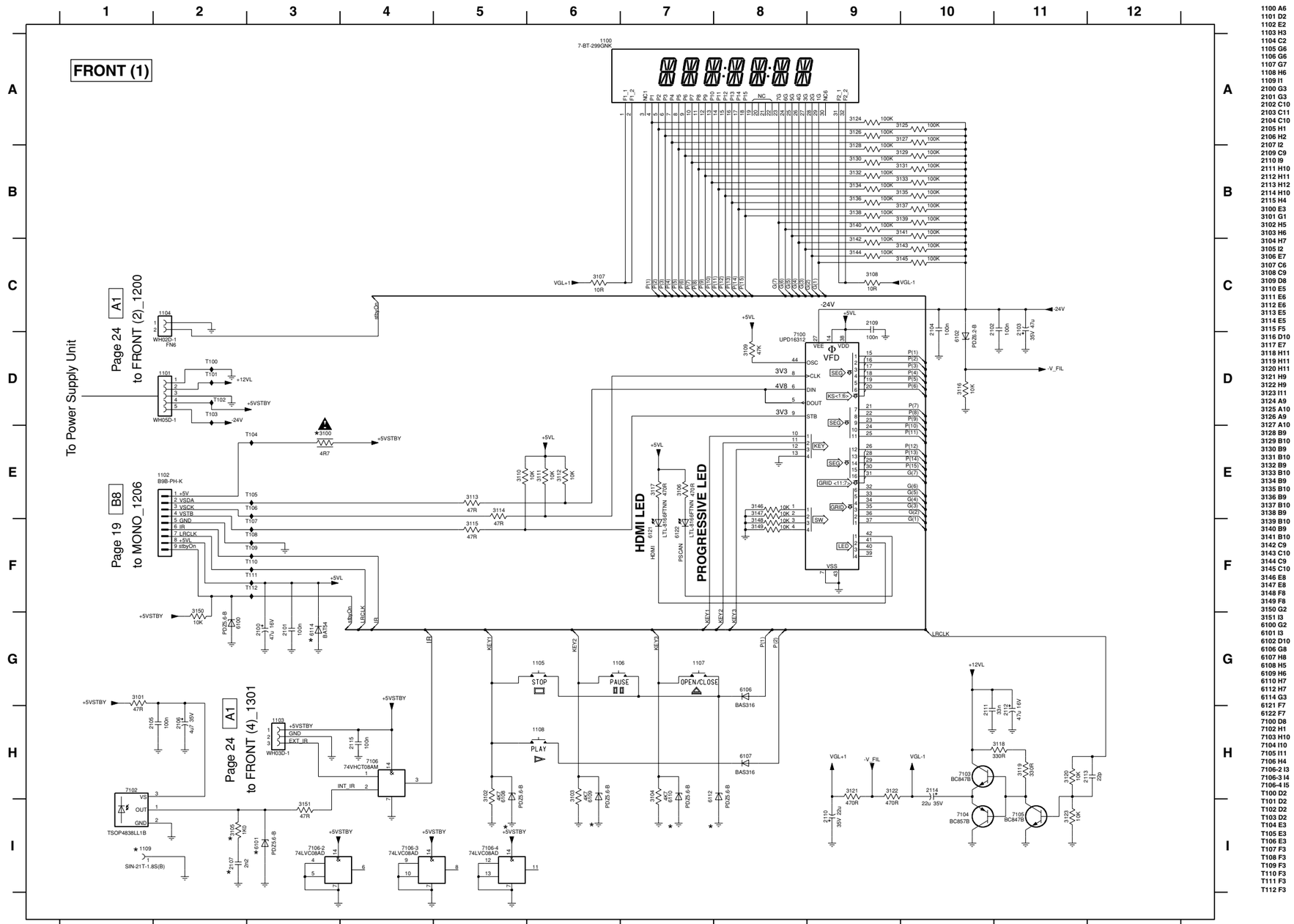
2xxx : Capacitor	4xxx : SMD jumper	6xxx : Diode	9xxx : Wire jumper

FRONT 1/2



1100 A6
1101 D2
1102 E2
1103 H3
1104 C2
1105 G6
1106 G6
1107 G7
1108 H6
1109 I1
2100 G3
2101 G3
2102 C10
2103 C11
2104 C10
2105 H1
2106 H2
2107 I2
2109 C9
2110 I9
2111 H10
2112 H11
2113 H12
2114 H10
2115 H4
3100 E3
3101 G1
3102 H5
3103 H6
3104 H7
3105 I2
3106 E7
3107 C6
3108 C9
3109 D8
3110 E5
3111 E6
3112 E6
3113 E5
3114 E5
3115 F5
3116 D10
3117 E7
3118 H11
3119 H11
3120 H11
3121 H9
3122 H9
3123 I11
3124 A9
3125 A10
3126 A9
3127 A10
3128 B9
3129 B10
3130 B9
3131 B10
3132 B9
3133 B10
3134 B9
3135 B10
3136 B9
3137 B10
3138 B9
3139 B10
3140 B9
3141 B10
3142 C9
3143 C10
3144 C9
3145 C10
3146 E8
3147 E8
3148 F8
3149 F8
3150 G2
3151 I3
6100 G2
6101 I3
6102 D10
6106 G8
6107 H8
6108 H5
6109 H6
6110 H7
6112 H7
6114 G3
6121 F7
6122 F7
7100 D8
7102 H1
7103 H10
7104 I10
7105 I11
7106 H4
7106-2 I3
7106-3 I4
7106-4 I5
T100 D2
T101 D2
T102 D2
T103 D2
T104 E3
T105 E3
T106 E3
T107 F3
T108 F3
T109 F3
T110 F3
T111 F3
T112 F3

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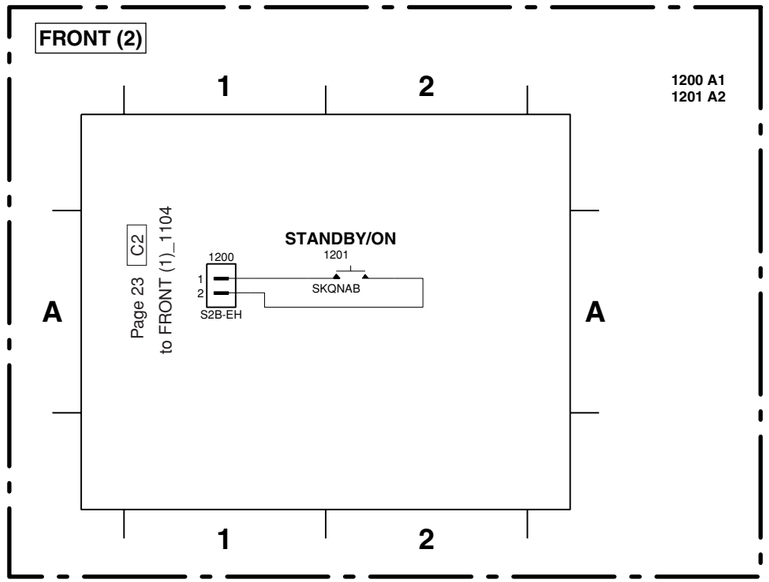
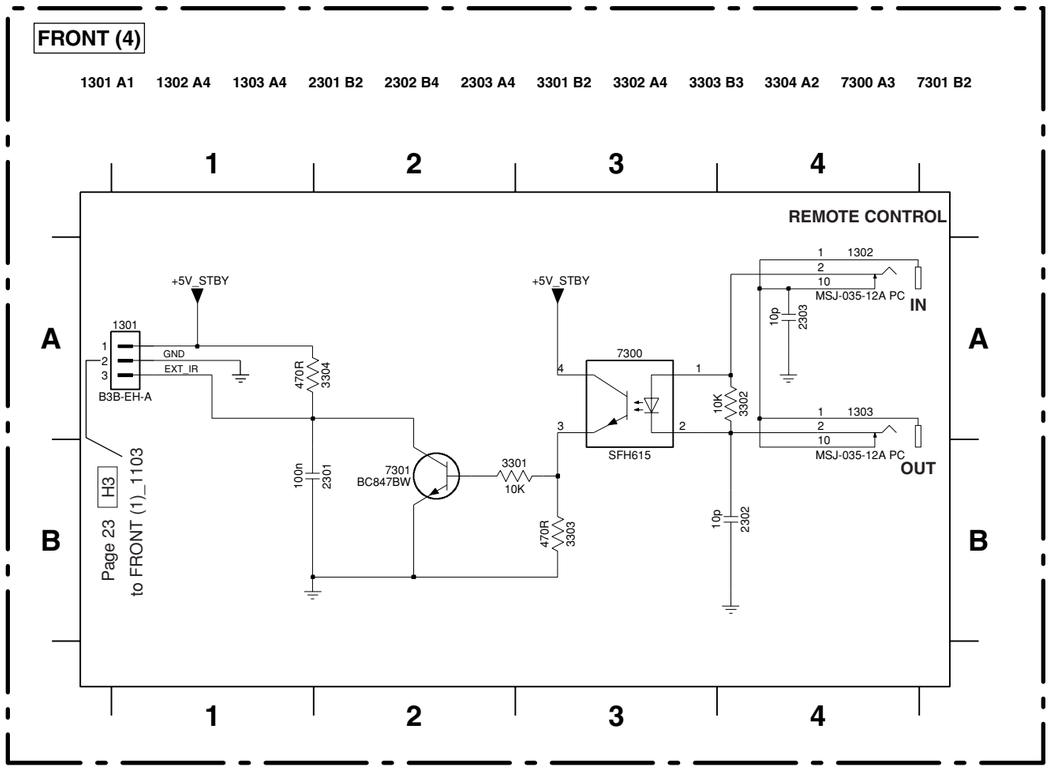
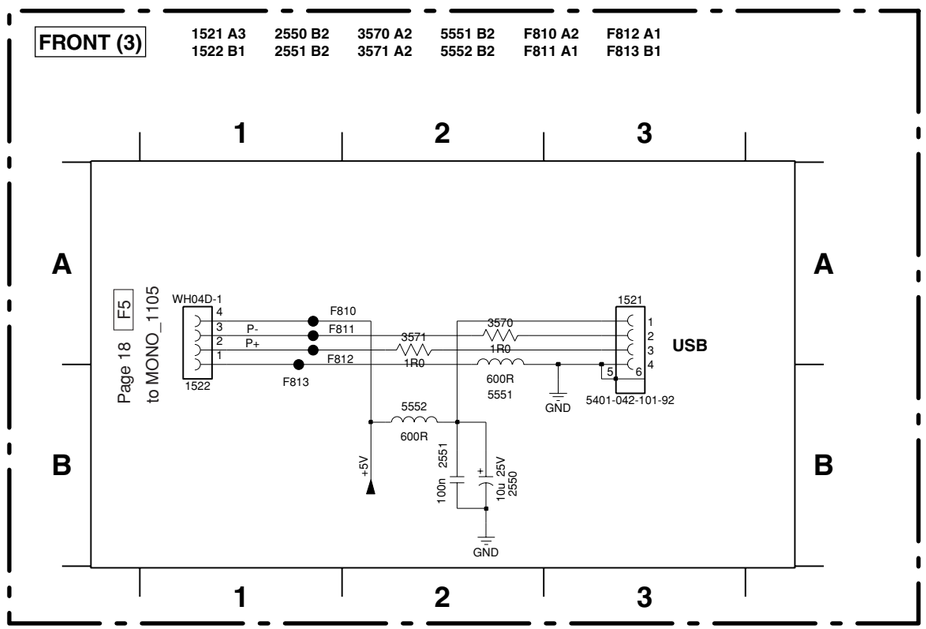
1xxx : Connector	3xxx : Resistor	5xxx : Coil	7xxx : IC, Transistor, FET
2xxx : Capacitor	4xxx : SMD jumper	6xxx : Diode	9xxx : Wire jumper

FRONT 2/2







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★ Schematic diagram is subject to change without notice.

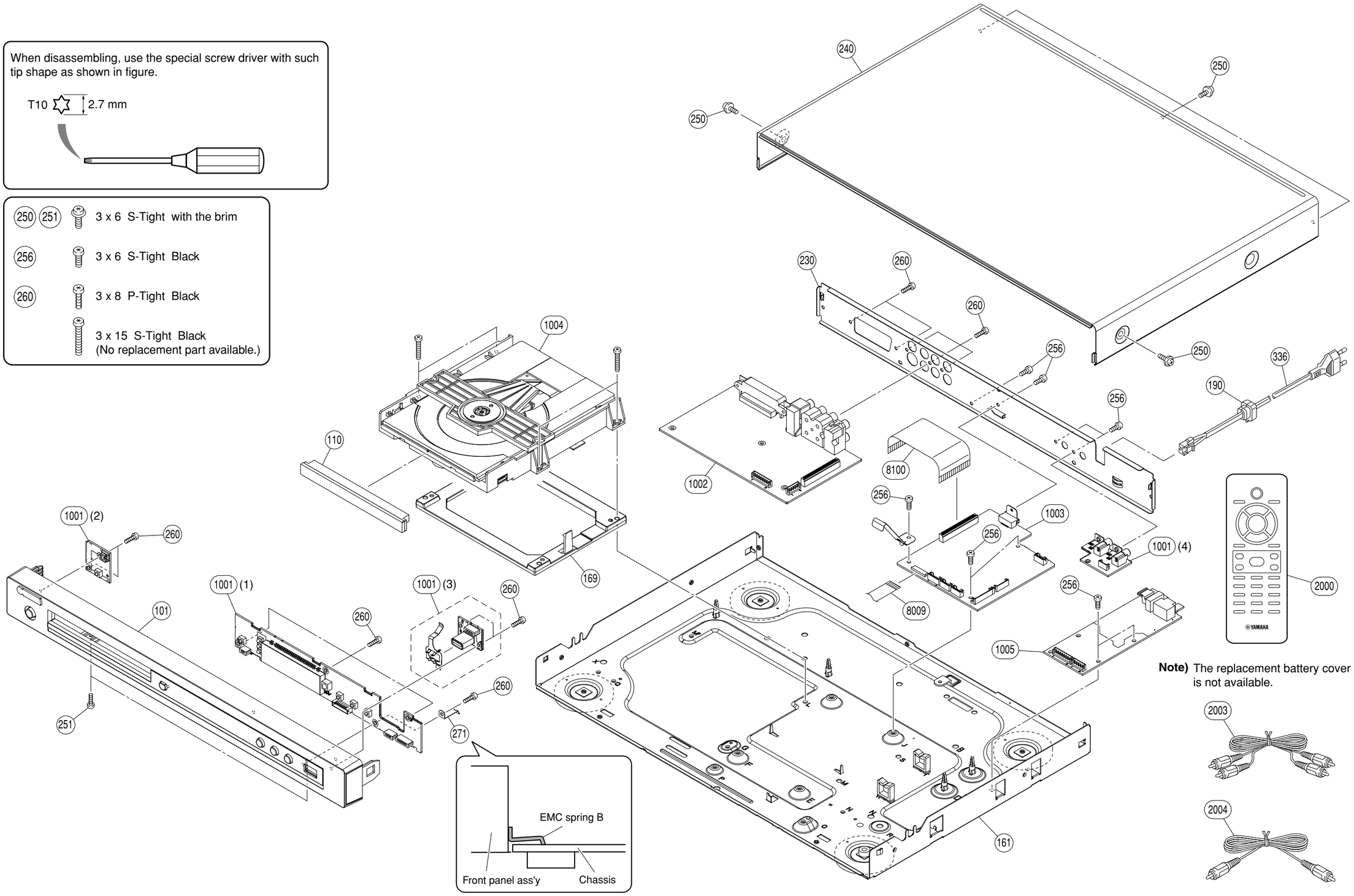
MEMO

MEMO

■ REPLACEMENT PARTS LIST

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

250 251	3 x 6 S-Tight with the brim
256	3 x 6 S-Tight Black
260	3 x 8 P-Tight Black
	3 x 15 S-Tight Black (No replacement part available.)



Note) The replacement battery cover is not available.

■ **WARNING**

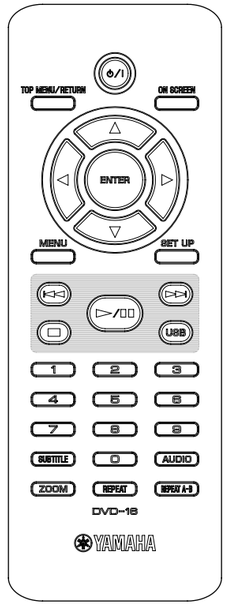
● Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.

	Ref. No.	Part No.	Description		Remarks	Markets
*	101	AAX82190	FRONT PANEL ASS'Y	BL	3141 079 41521	
*	101	AAX82200	FRONT PANEL ASS'Y	TI	3141 079 41531	
*	101	AAX82210	FRONT PANEL ASS'Y	SI	3141 079 41541	
	110	AAX77810	TRAY COVER ASS'Y		3141 079 37091	
	161	AAX77820	FRAME ASS'Y		3141 079 37101	
	169	AAX77860	BRACKET		3139 244 10241	
	190	AAX53540	BUSH	450H259010	3139 114 26671	
*	230	AAX82290	REAR PANEL	S661	3139 241 26441	
	240	AAX58270	TOP COVER	BL	3139 247 59051	
	240	AAX58290	TOP COVER	TI, SI	3139 241 22191	
	250	AAX55450	PW HEAD TORX S-TIGHT SCREW	BL 3x6-8 MFZN2B	3139 110 40611	
	250	AAX53440	PW HEAD TORX S-TIGHT SCREW	TI,SI 3x6-8 MFNI33	3104 120 40081	
	251	AAX55450	PW HEAD TORX S-TIGHT SCREW	3x6-8 MFZN2B	3139 110 40611	
	256	AAX23640	PAN HEAD TORX S-TIGHT SCREW	3x6 MFZN2B	2511 077 00039	
	260	AAX53520	PAN HEAD TORX P-TIGHT SCREW	3x8 MFZN2B	2511 076 50012	
	271	AAX69600	EMC SPRING B		3139 241 00042	
⚠	336	AAX53630	POWER CABLE	1.8m	2422 070 98231	
*	1001	AAX82180	P.C.B. ASS'Y	FRONT	3139 248 51812	
*	1002	AAX82360	P.C.B. ASS'Y	AV	3139 248 52351	
*	1003	AAX82170	P.C.B. ASS'Y	MONO DVM91USB	3139 248 51821	
	1004	AAX79060	DVD MECHANISM UNIT	WXD8829	3139 247 13341	
⚠	1005	AAX79050	POWER SUPPLY UNIT	06P15	3139 247 13351	
	8009	AAX53460	FLEXIBLE FLAT CABLE	24P 280mm P=0.5mm	3139 241 00391	
	8100	AAX77800	FLEXIBLE FLAT CABLE	30P 60mm P=1.25mm	3139 241 02491	
			ACCESSORIES			
*	2000	AAX82300	REMOTE CONTROL	DVD-16	2422 549 01442	
	2003	AAX21980	AUDIO PIN CABLE	RD/WH 1.5m 1pc	3103 308 92611	
	2004	AAX22970	VIDEO PIN CABLE	YE 1.5m 1pc	3104 108 45432	
			BATTERY	AAA,R03,UM-4 2pcs		

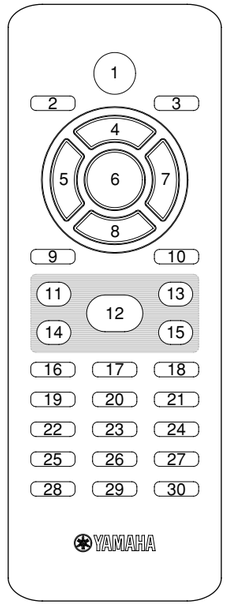
※ New Parts

■ REMOTE CONTROL DVD-16

- **PANEL**



- **KEY NO. LAYOUT**



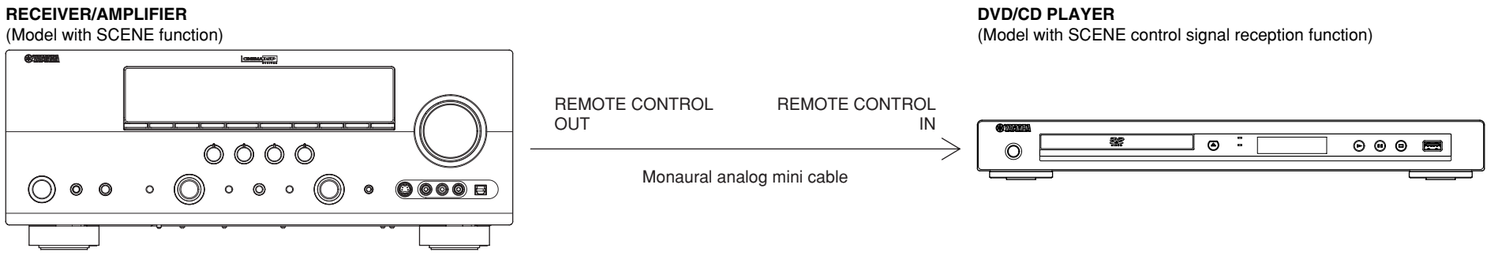
- **KEY CODE**

No.	Key label	Code
1	STANDBY (POWER)	7C-80
2	TOP MENU/RETURN	7C-B1
3	ON SCREEN	7C-A6
4	▲ (UP)	7C-B4
5	◀ (LEFT)	7C-B5
6	ENTER	7C-B8
7	▶ (RIGHT)	7C-B6
8	▼ (DOWN)	7C-B3
9	MENU	7C-B2
10	SET UP	7C-AC
11	⏮ (SKIP) / SEARCH-	7C-B9
12	▶/⏸ (PLAY/PAUSE) *	7C-92
13	⏭ (SKIP) / SEARCH+	7C-BA
14	■ (STOP)	7C-85
15	USB	7C-E6
16	1	7C-94
17	2	7C-95
18	3	7C-96
19	4	7C-97
20	5	7C-98
21	6	7C-99
22	7	7C-9A
23	8	7C-9B
24	9	7C-9C
25	SUBTITLE	7C-AA
26	0	7C-93
27	AUDIO	7C-AD
28	ZOOM	7C-D7
29	REPEAT	7C-A3
30	REPEAT A-B	7C-A4

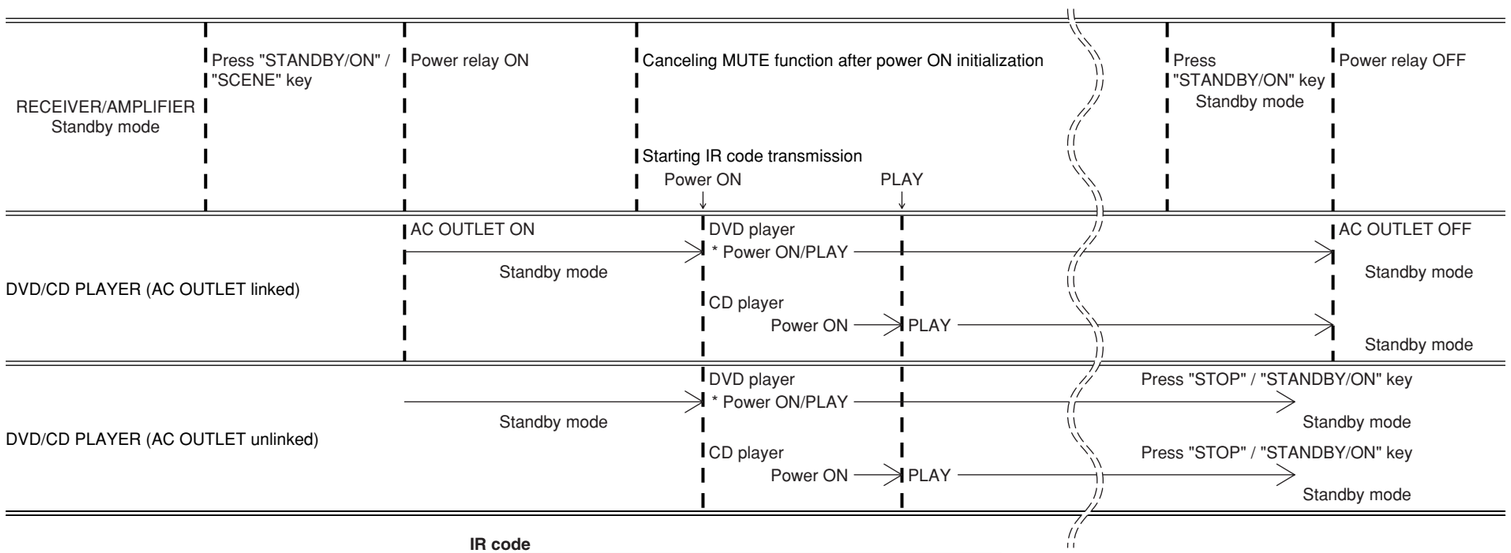
* Possible receiving
PLAY : 7C-82
PAUSE : 7C-83

■ SCENE CONTROL

- **Example of connection**



- **SCENE control**



IR code

	Power ON	PLAY
DVD	* 7C-82 [PLAY code]	–
CD	79-7E	79-02

* When the DVD player receives the IR code [PLAY], the power is turned on and the disc is played at the same time.