

DVD PLAYER

DVD-S663/DV-S6165

SERVICE MANUAL

DVD-S663/DV-S6165

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

TO SERVICE PERSONNEL	2-3
PREVENTION OF ELECTROSTATIC DISCHARGE	4
REGION MANAGEMENT INFORMATION	4
FRONT PANELS	5
REAR PANELS	5-7
REMOTE CONTROL PANEL	7
SPECIFICATIONS / 参考仕様	8-9
INTERNAL VIEW	10
REPAIR NOTES / 修理上の留意点	10
TRADE MODE / トレードモード	11-12

DISASSEMBLY PROCEDURES	13
分解手順	14
TEST MODE / テストモード	15
BLOCK DIAGRAM	16
WIRING DIAGRAM	17
PRINTED CIRCUIT BOARDS	18-25
SCHEMATIC DIAGRAMS	26-33
REPLACEMENT PARTS LIST	34-35
REMOTE CONTROL	36



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This Service Manual uses recycled paper.

■ TO SERVICE PERSONNEL

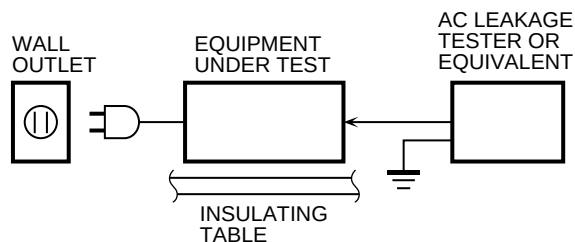
1. Critical Components Information

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

2. Leakage Current Measurement (For 120V Models Only)

When service has been completed, it is imperative to verify that all exposed conductive surfaces are properly insulated from supply circuits.

- Meter impedance should be equivalent to 1500 ohms shunted by 0.15 μ F.



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

WARNING: CHEMICAL CONTENT NOTICE!

This product contains chemicals known to the State of California to cause cancer, or birth defects or other reproductive harm.

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

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/1 feet 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.

警告：レーザーの安全対策

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

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

レーザー放射条件

- 1) トップカバーを取り外しSTANDBY/ON スイッチをON にすると、ディスク検知のため5～10 秒間、光ピックアップからレーザー光線が放射されます。この間、修理はしないでください。
ディスクが検知されなければ、レーザー光線の放射は停止します。ディスクがセットされている場合、ディスクで遮られるのでレーザー光線は修理担当者に届きません。
- 2) レーザーパワーレベルは光ピックアップ基板上のVR により調整可能ですが、工場出荷前に調整セット済みなので、このVR は廻さないでください。このVR を廻すと装置からのレーザー光線の放射レベルが上がる恐れがあります。

Laser Diode Properties

Type: Semiconductor laser GaAs/GaAlAs
 Wave length: 650 nm (DVD)
 780 nm (VCD/CD)
 Output Power: 7 mW (DVD)
 10 mW (VCD/CD)
 Beam divergence: 60 degree

レーザー

タイプ: 半導体レーザーGaAs/GaAlAs
 波長: 650 nm (DVD)
 780 nm (VCD/CD)
 出力: 7 mW (DVD)
 10 mW (VCD/CD)
 ビーム広がり: 60度

WARNING

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

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 AUSSETZEN.

DANGER

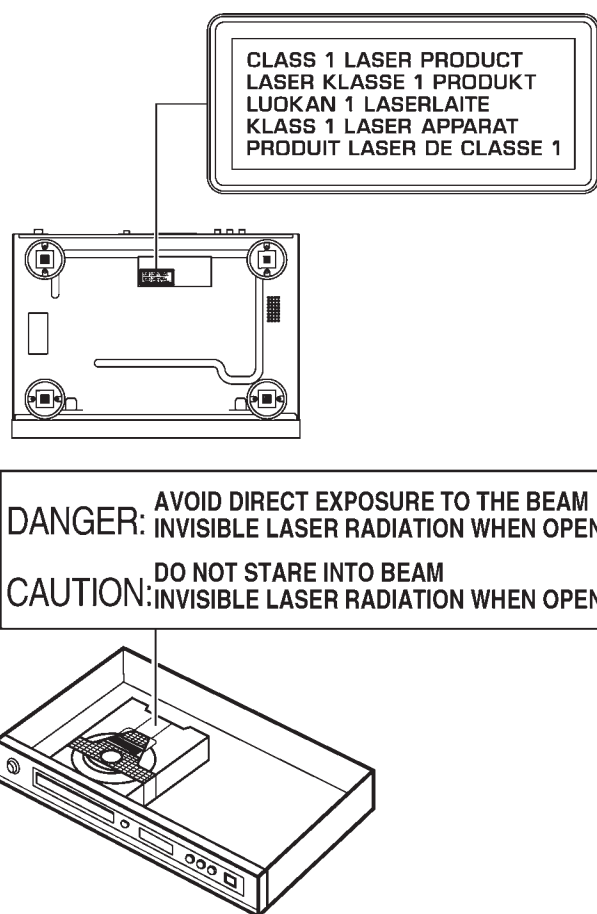
VISIBLE AND INVISIBLE LASER RADIATION WHEN
 OPEN. AVOID DIRECT EXPOSURE TO BEAM.

ATTENTION

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

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 accidentally 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 against dropping or 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

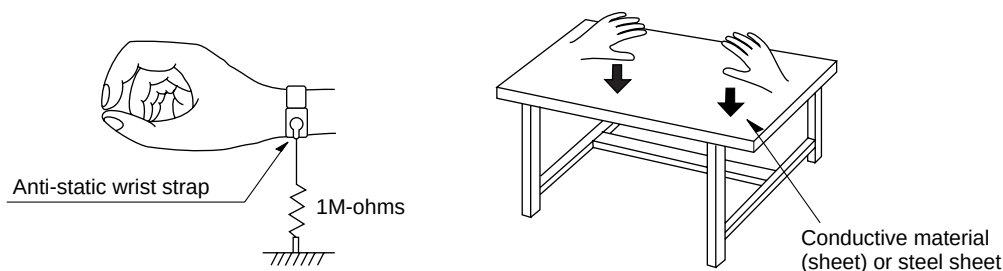
Some devices, such as the DVD player, use an optical pickup (laser diode) that will be damaged by static electricity in the working environment. Only attempt service after ensuring that all grounding procedures have been completed.

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.



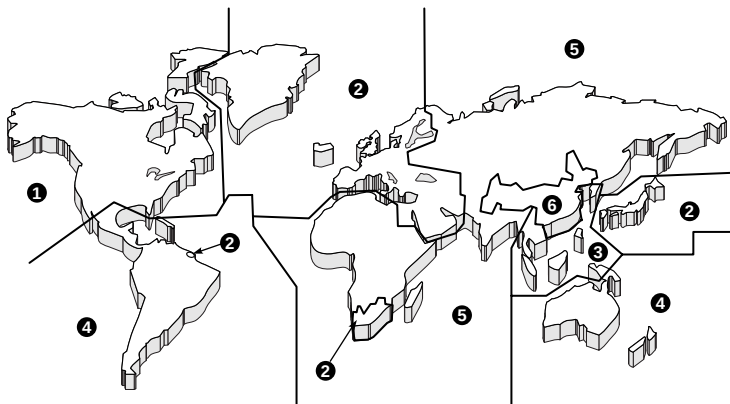
2. Handling Precautions for DVD mechanism

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.

■ REGION MANAGEMENT INFORMATION

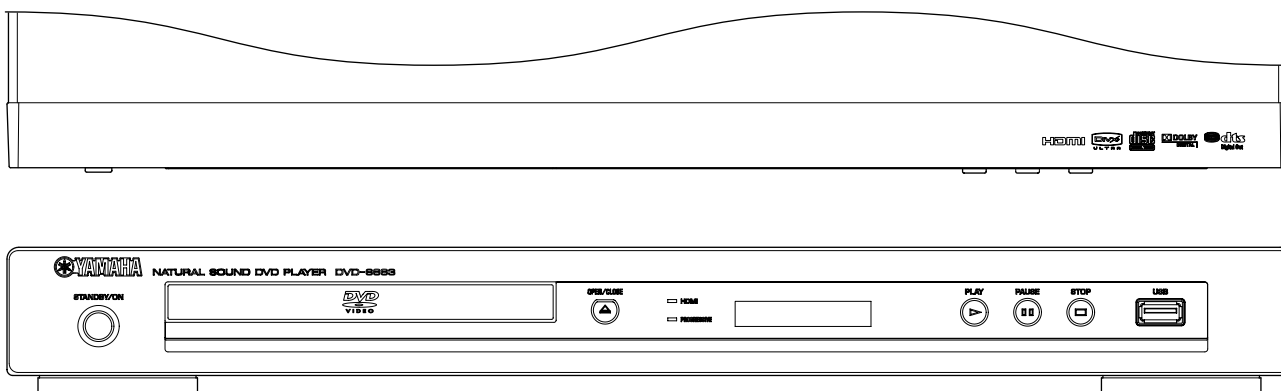
Region Management Information: This DVD player is designed and manufactured to respond to the Region Management Information that is recorded on a DVD disc. If the Region number described on the DVD disc does not correspond to the Region number of this DVD player, this DVD player cannot play this disc.

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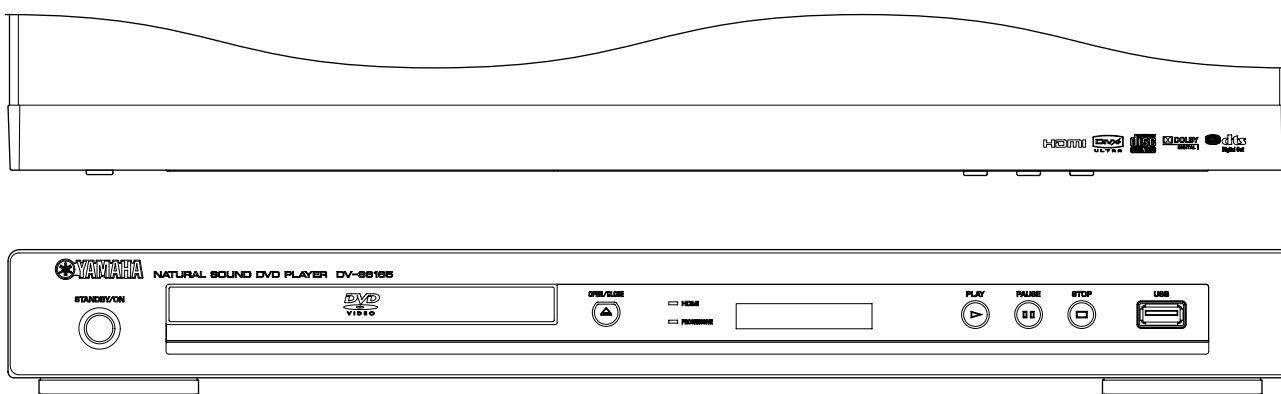


FRONT PANELS

DVD-S663 (U, K, A, G, F, L, P, J models)

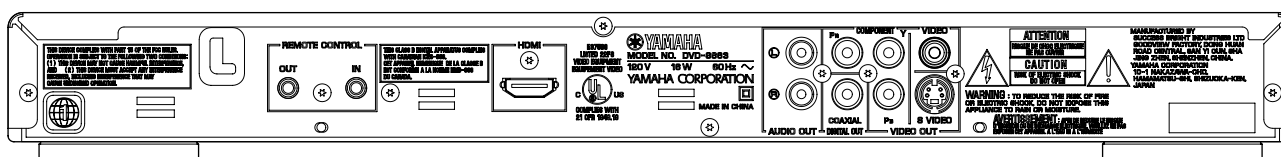


DV-S6165 (U model)

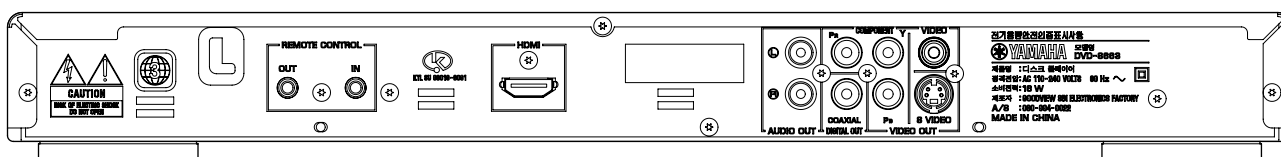


REAR PANELS

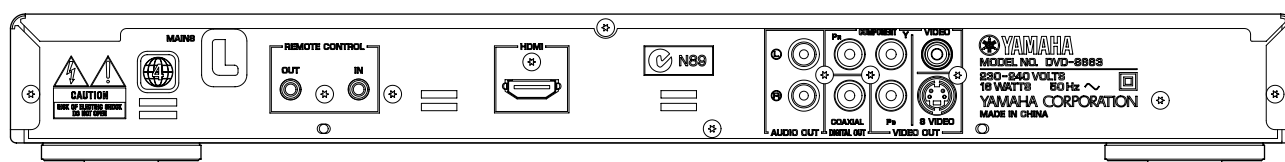
DVD-S663 (U model)



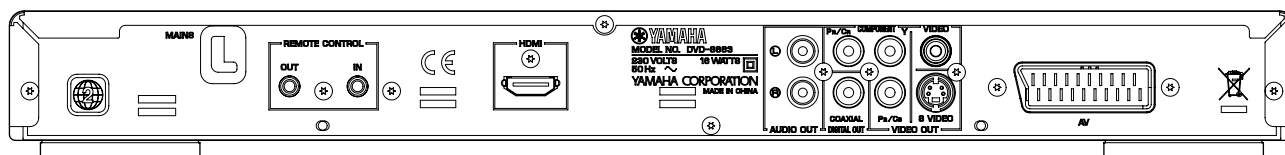
DVD-S663 (K model)



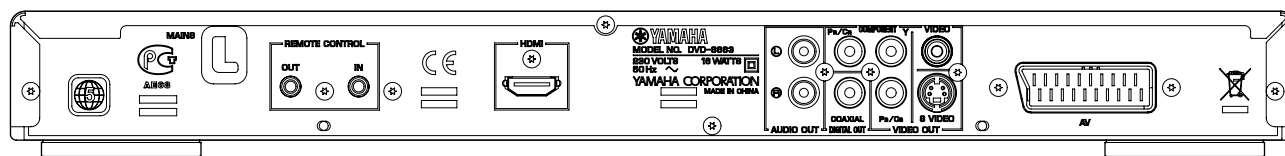
DVD-S663 (A model)



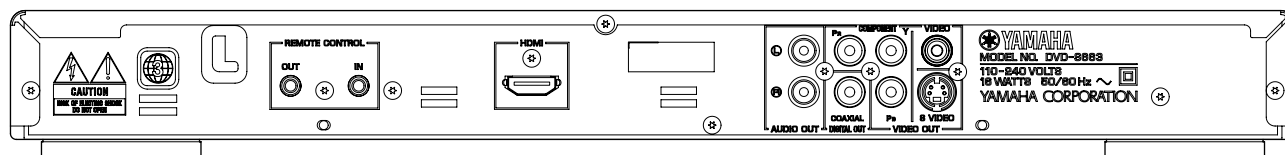
DVD-S663 (G model)



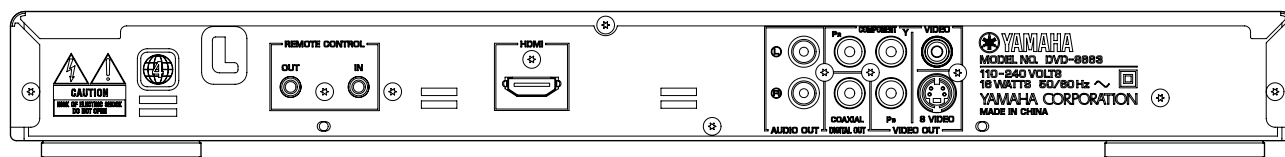
DVD-S663 (F model)



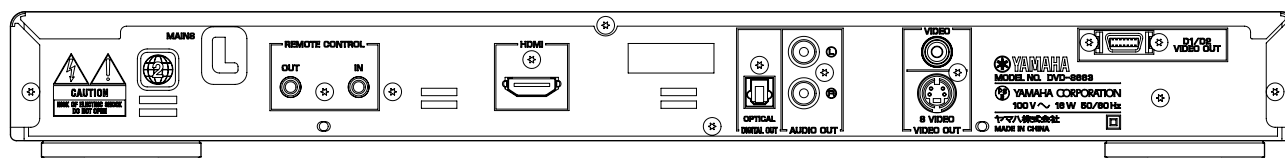
DVD-S663 (L model)



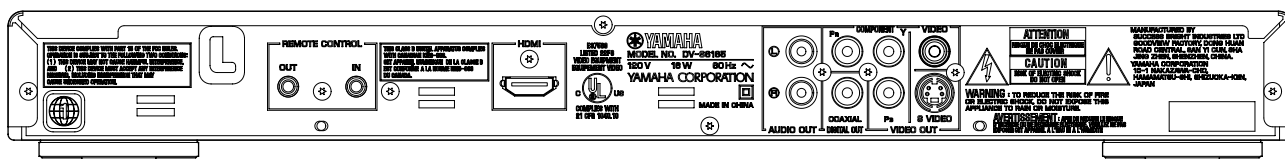
DVD-S663 (P model)



DVD-S663 (J model)

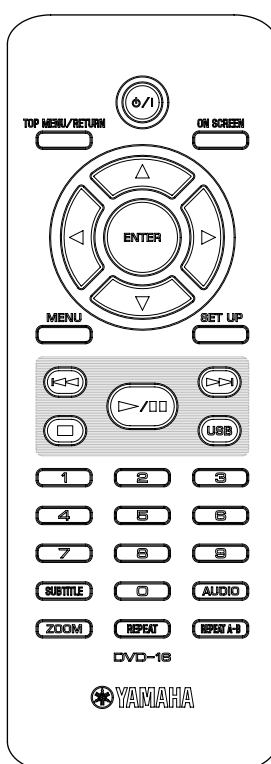


DV-S6165 (U model)



■ REMOTE CONTROL PANEL

DVD-16



SPECIFICATIONS / 参考仕様

PLAYBACK SYSTEM / 対応ディスク

DVD Video	
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 to 320 kbps
WMA	fs 44.1 kHz / 64 to 192 kbps fs 48 kHz / 128 to 192 kbps
WMV	720 x 480 / 720 x 576 dpi or less
DivX®	
JPEG	3072 x 2048 pixels or less

VIDEO PERFORMANCE / ビデオ部

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 (U, K, A, G, F, L, P models)	
Y	1 Vpp into 75 ohms
PB/CB (PB), PR/CR (PR)	0.7 Vpp into 75 ohms
RGB (SCART) output (G, F models)	Y: 0.7 Vpp into 75 ohms
D1/D2 (J model)	Y: 1 Vpp into 75 ohms PB, PR: 0.7 Vpp into 75 ohms

AUDIO FORMAT / オーディオフォーマット

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

AUDIO PERFORMANCE / オーディオ特性

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 /

マルチメディアアプリケーション

Connections	USB mass storage class device
Playback formats (USB device)	
MP3	fs 32, 44.1, 48 kHz / 96 to 320 kbps
WMA	fs 44.1 kHz / 64 to 192 kbps fs 48 kHz / 128 to 192 kbps
WMV	720 x 480 / 720 x 576 dpi or less
DivX®	
JPEG	3072 x 2048 pixels or less

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

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

CONNECTIONS / 接続端子

Video output	RCA/Phono x 1 (yellow)
S-video output	Mini DIN, 4 pins x 1
Component video output (U, K, A, G, F, L, P models)	
Y output	RCA/Phono x 1 (green)
PB/CB (PB) output	RCA/Phono x 1 (blue)
PR/CR (PR) output	RCA/Phono x 1 (red)
SCART (G, F models)	Euroconnector x 1
Audio output (L+R)	RCA/Phono x 1 pair (white/red)
Digital output	
Coaxial (U, K, A, G, F, L, P models)	RCA/Phono x 1 IEC60958 for CDDA/LPCM / IEC61937 for Dolby Digital and DTS x 1
Optical (J model)	IEC60958 for CDDA/LPCM / IEC61937 for Dolby Digital and DTS Type A x 1
HDMI	Type A x 1
USB	Type A x 1
Remote control	
Input	ø3.5 mm mini jack x 1
Output	ø3.5 mm mini jack x 1

GENERAL / 一般

Dimensions (W x H x D)	435 x 51 x 318 mm
寸法(幅×高さ×奥行き)	(17-1/8" x 2" x 12-1/2")
Weight / 質量	Approx. 2.6 Kg (5 lbs. 12 oz)
Finish / 仕上げ	
[DVD-S663]	Gold color (J model) Black color (U, A, G, F, P models) Titanium color (G, F, K, L models) Silver color (G, F models)
[DV-S6165]	Black color (U model)
Power Supply / 電源電圧	AC120V, 60 Hz (U model) AC110-240V, 60 Hz (K model) AC230-240V, 50 Hz (A model) AC230V, 50 Hz (G, F models) AC110-240V, 50/60 Hz (L, P models) AC100V, 50/60 Hz (J model)
Power consumption /	
消費電力	Approx. 16 W
Standby power consumption /	
待機時消費電力	Less than 1 W

ACCESSORIES / 付属品

Remote control x 1
Battery (R03, AAA, UM-4) x 2
Audio/Video cable (1.5 m) x 1 (U, K, A, L, P, J models)
Audio pin cable (1.5 m) x 1 (G, F models)
Video pin cable (1.5 m) x 1 (G, F models)

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

※ 参考仕様および外観は予告なく変更されることがあります。

U U.S.A and Canada models F Russian model

K Korean model L Singapore model

A Australian model P South American model

G European model J Japanese model



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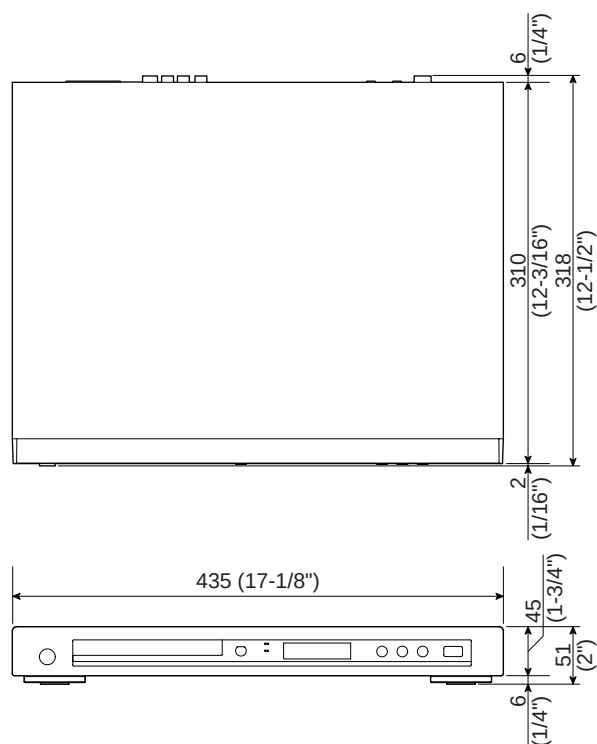
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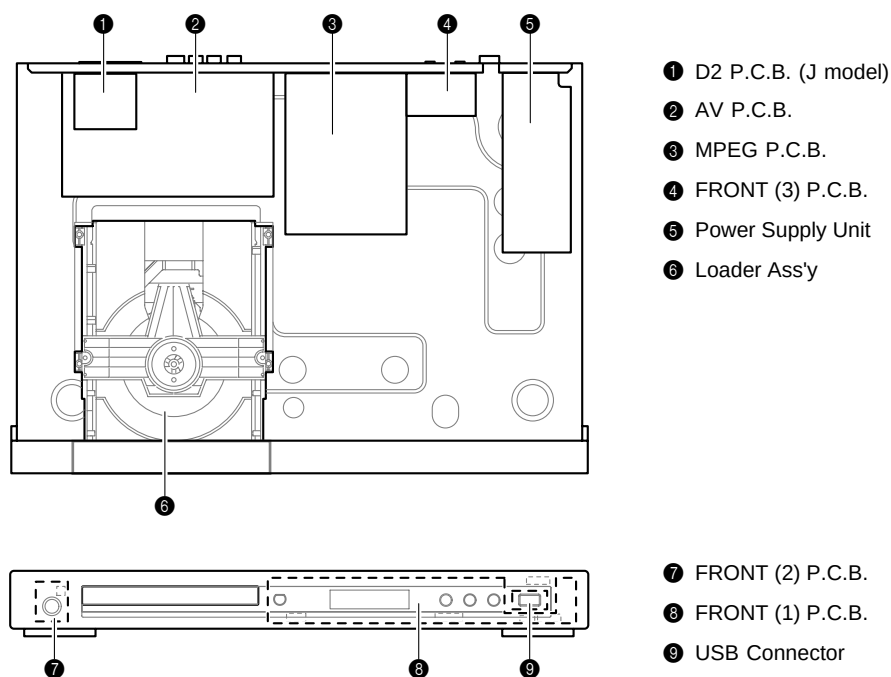
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• DIMENSIONS / 寸法図



Unit: mm (inch)
単位: mm (インチ)

INTERNAL VIEW



REPAIR NOTES / 修理上の留意点

None of the components of the following units can be supplied separately.

Each unit must be replaced as a whole in case of a failure.

- Loader Ass'y
- MPEG P.C.B.
- FRONT P.C.B.
- AV P.C.B.
- Power Supply Unit

下記のユニットは、小部品の部品供給はできません。
故障の場合は、各ユニットを交換してください。

- ローダーASSY
- MPEG P.C.B.
- FRONT P.C.B.
- AV P.C.B.
- D2 P.C.B. (J model)
- 電源ユニット

■ TRADE MODE / トレードモード

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

• Activating TRADE mode

The power to this unit should be turned on before activating the TRADE mode.

1. Press the "OPEN/CLOSE" key to open the disc 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 disc tray is closed automatically. (Fig. 3)

Notes)

- After activating TRADE mode, it is not possible to operate keys of this 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)

本機には、“OPEN/CLOSE”キーを押した時ディスクトレイが開くのを防ぐトレードモードがあります。

• トレードモードの起動

トレードモードを起動する前に、本機の電源を入れます。

1. 本機の“OPEN/CLOSE”キーを押し、ディスクトレイを開けます。(Fig. 1)
2. リモコンの“2”、“5”、“9”のキーを押します。(Fig. 2)
3. “TRA ON”が表示され、トレードモードが起動します。約2秒後、ディスクトレイが自動的に閉じます。(Fig. 3)

注意)

- トレードモードを起動した後、以下のキー以外は操作できません。
“STANDBY/ON”キー(電源を入れるのみ)
リモコンによる操作は可能です。
- トレードモードを起動した後、再生の初期設定は以下の通りです。
DVD : RPT TT(タイトルリピート)
VCD/SVCD/CD : RPT ALL(オールリピート)

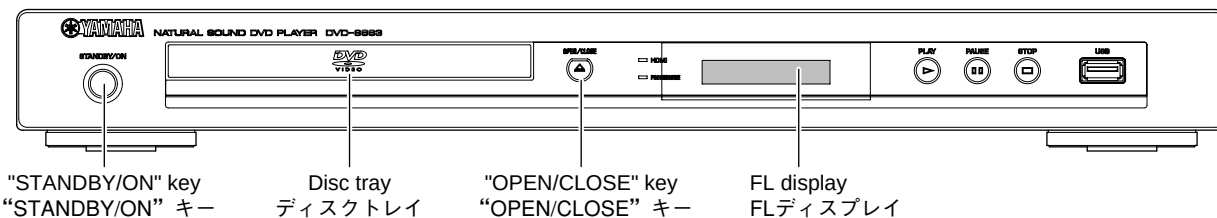


Fig. 1

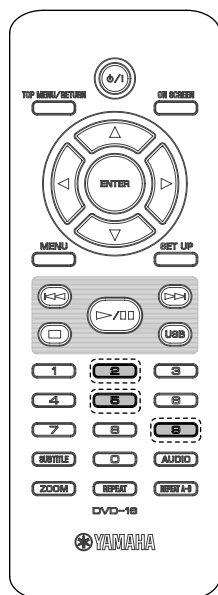
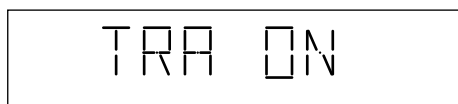


Fig. 2

TRADE mode display / トレードモード表示



Enter / 起動

Fig. 3

• Canceling TRADE mode

The power to this unit should be turned on before canceling TRADE mode.

1. Press and hold the “STOP” key on the remote control. (Fig. 4)
The disc tray opens after about 2 second.
2. Press the “2”, “5” and “9” keys on the remote control in that order. (Fig. 4)
3. “TRA OFF” is displayed and TRADE mode is cancelled. About 2 seconds later, the disc tray is closed automatically. (Fig. 5)

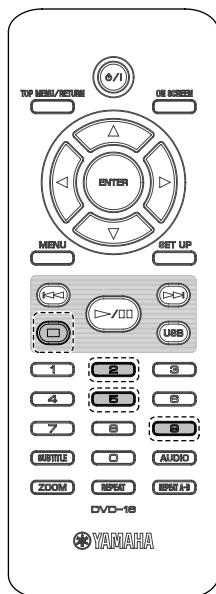
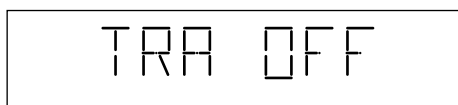


Fig. 4

• トレードモードの解除

トレードモードを解除する前に、本機の電源を入れます。

1. リモコンの“STOP”キーを押し続けます。(Fig. 4)
約2秒後、ディスクトレイが開きます。
2. リモコンの“2”、“5”、“9”のキーを押します。
(Fig. 4)
3. “TRA OFF”が表示され、トレードモードが解除されます。約2秒後、ディスクトレイが自動的に閉じます。(Fig. 5)

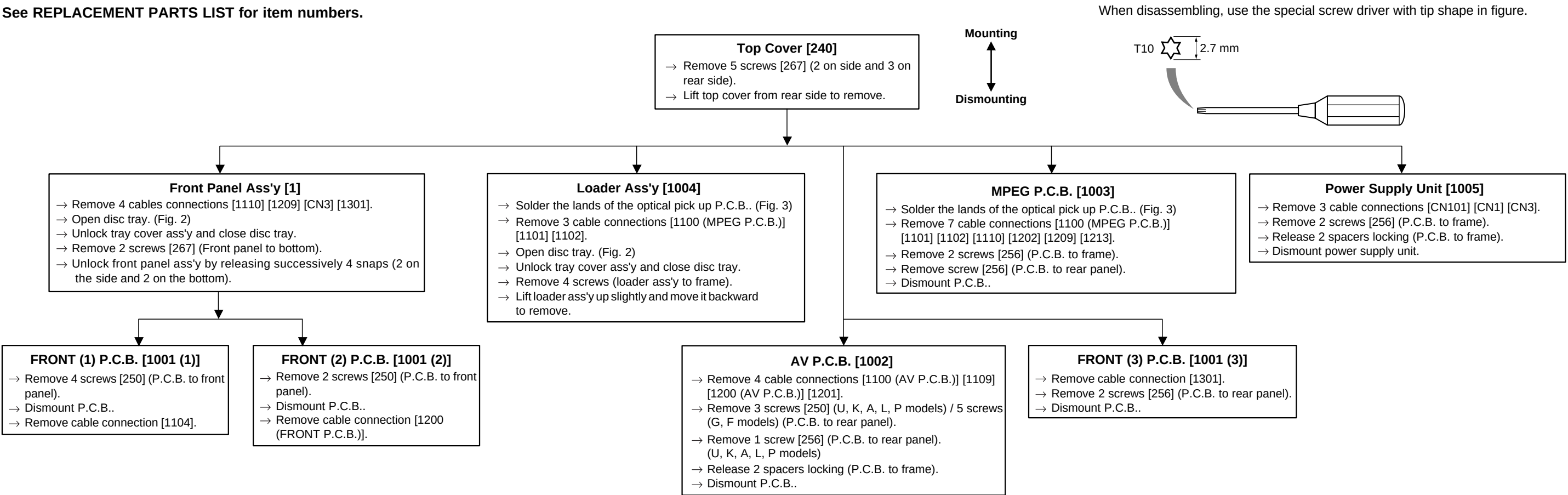


Cancel / 解除

Fig. 5

DISASSEMBLY PROCEDURES

See REPLACEMENT PARTS LIST for item numbers.



Cable connections

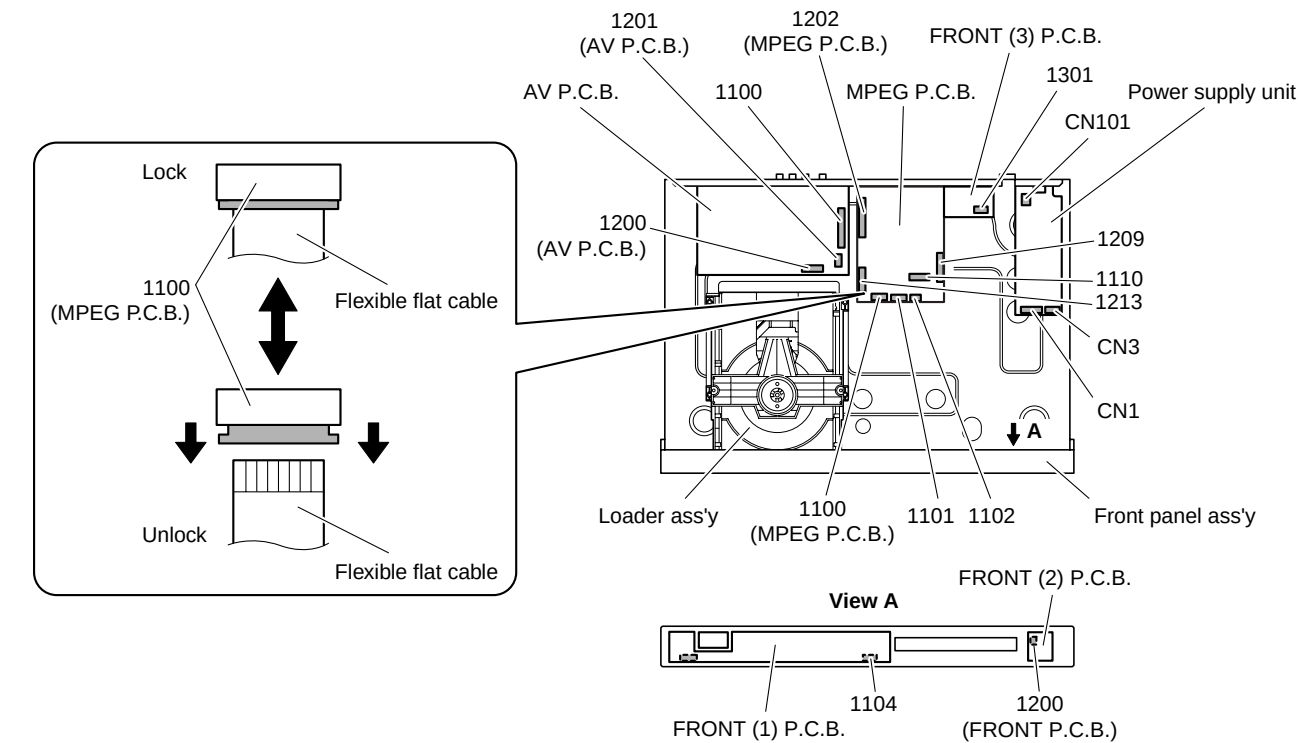


Fig. 1

How to manually eject the disc tray

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

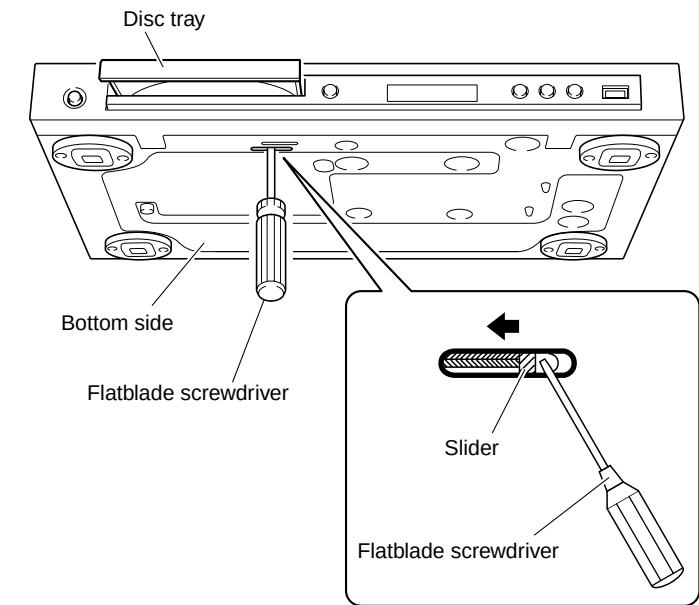


Fig. 2

Preventive measure for optical pick up from electrostatic breakdown

When replacing the MPEG P.C.B. or loader ass'y, 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 optical pick up P.C.B..
- After you have finished repairing, remove the solder from the short-circuit location.

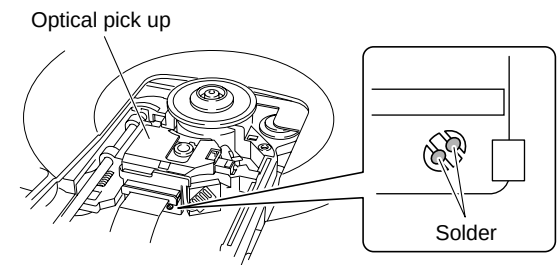
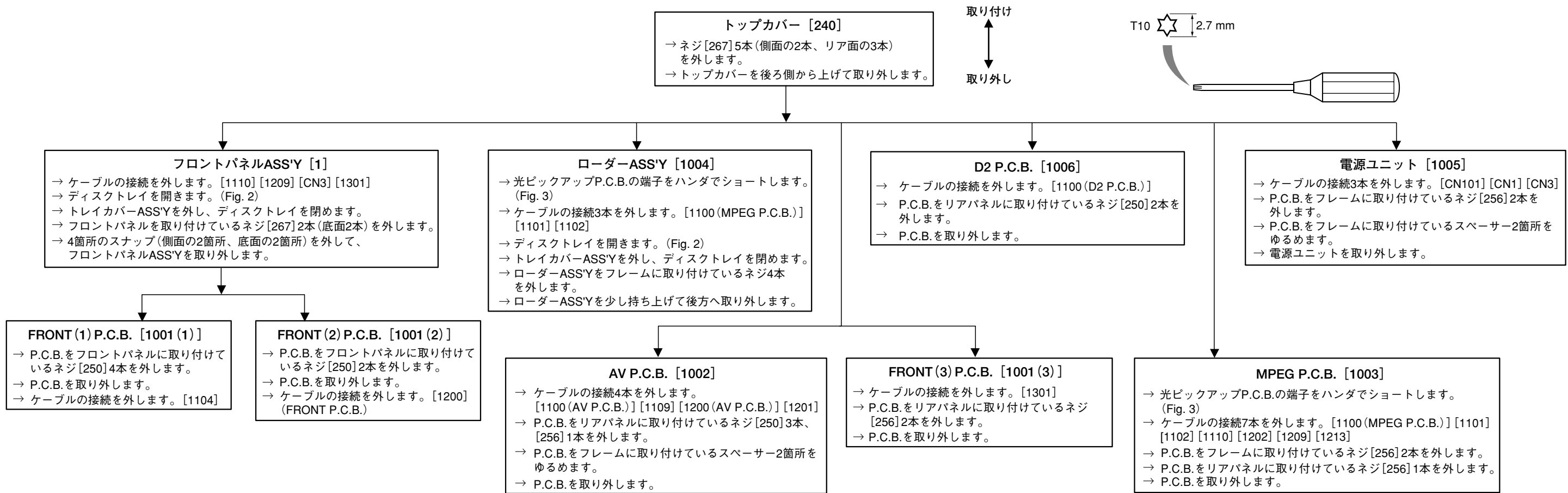


Fig. 3

■ 分解手順

項目番号についてはパーツリストを参照してください。

分解には図のような特殊ドライバーを使用します。



● コネクタ配置図

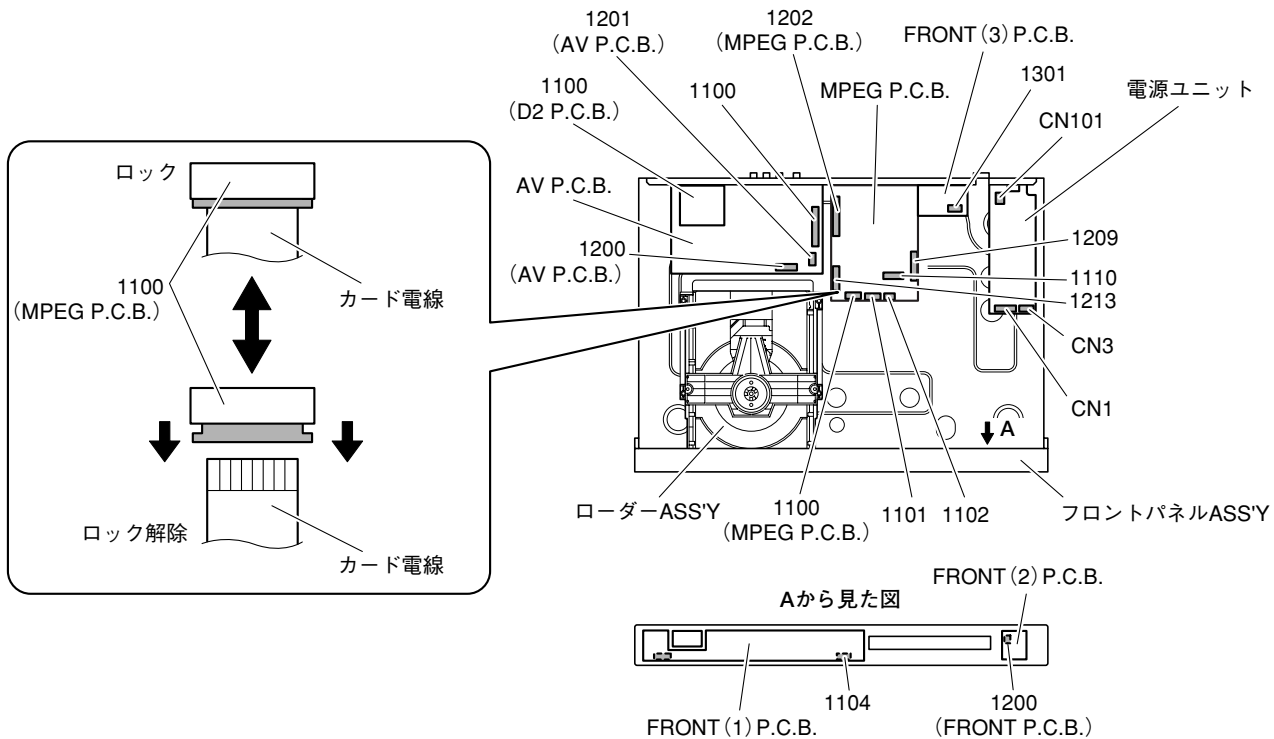


Fig. 1

● 手でディスクトレイを開く方法

- ディスクトレイが出てくるまで、ドライバーでスライダを図に示す矢印の方向に動かします。
- ディスクトレイをそっと引き出します。

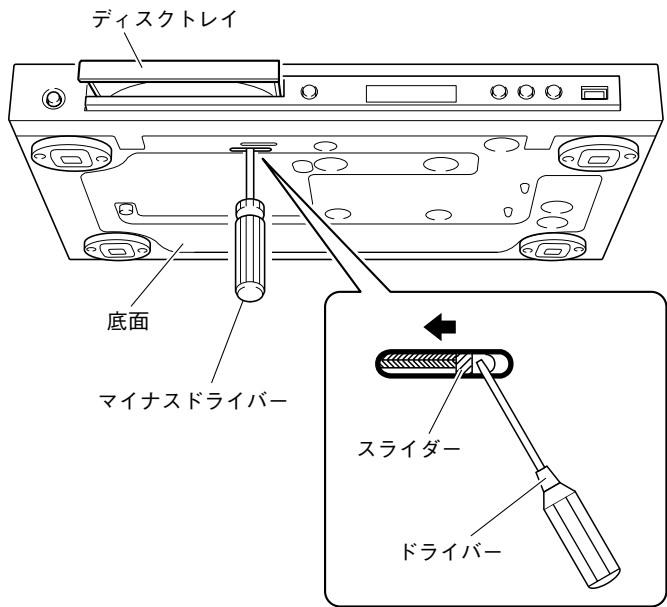


Fig. 2

● 光ピックアップの静電対策

MPEG P.C.B.およびローダーASS'Yを交換した場合、光ピックアップの静電対策のため、光ピックアップP.C.B.の端子をハンダでショートします。

- 注意)
- 光ピックアップP.C.B.の端子のショート・除去には静電対策されたハンダゴテを使用してください。
 - 修理後、ショートしたハンダは取り除いてください。

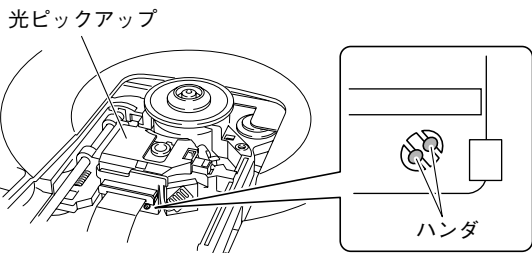


Fig. 3

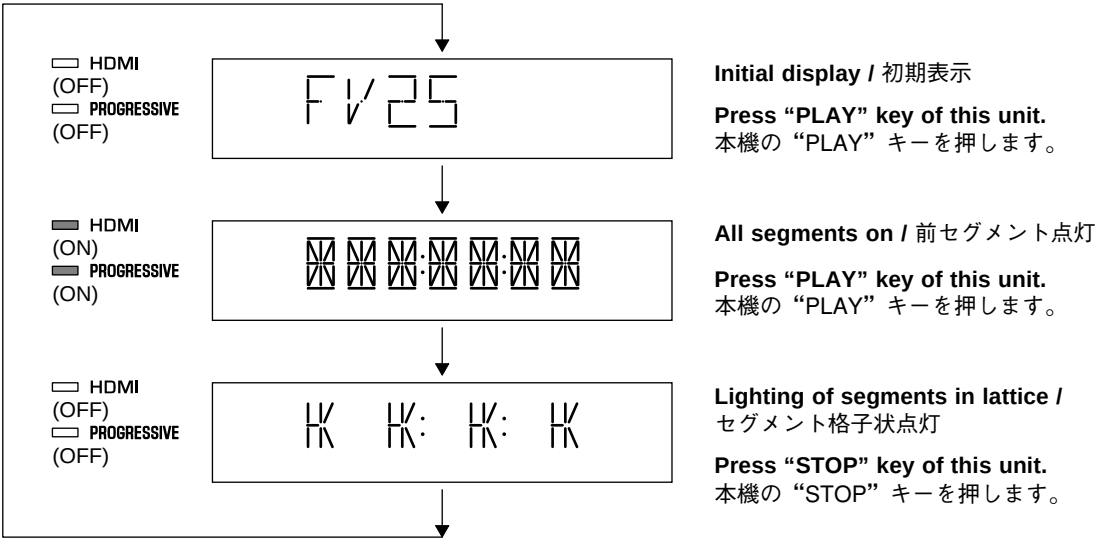
■ TEST MODE / テストモード

• 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 for 8 seconds or longer.
- c. The “FV xx” (firmware version) is displayed.

• Display Test

The display changes as shown below by pressing the specified key.



• テストモードの起動

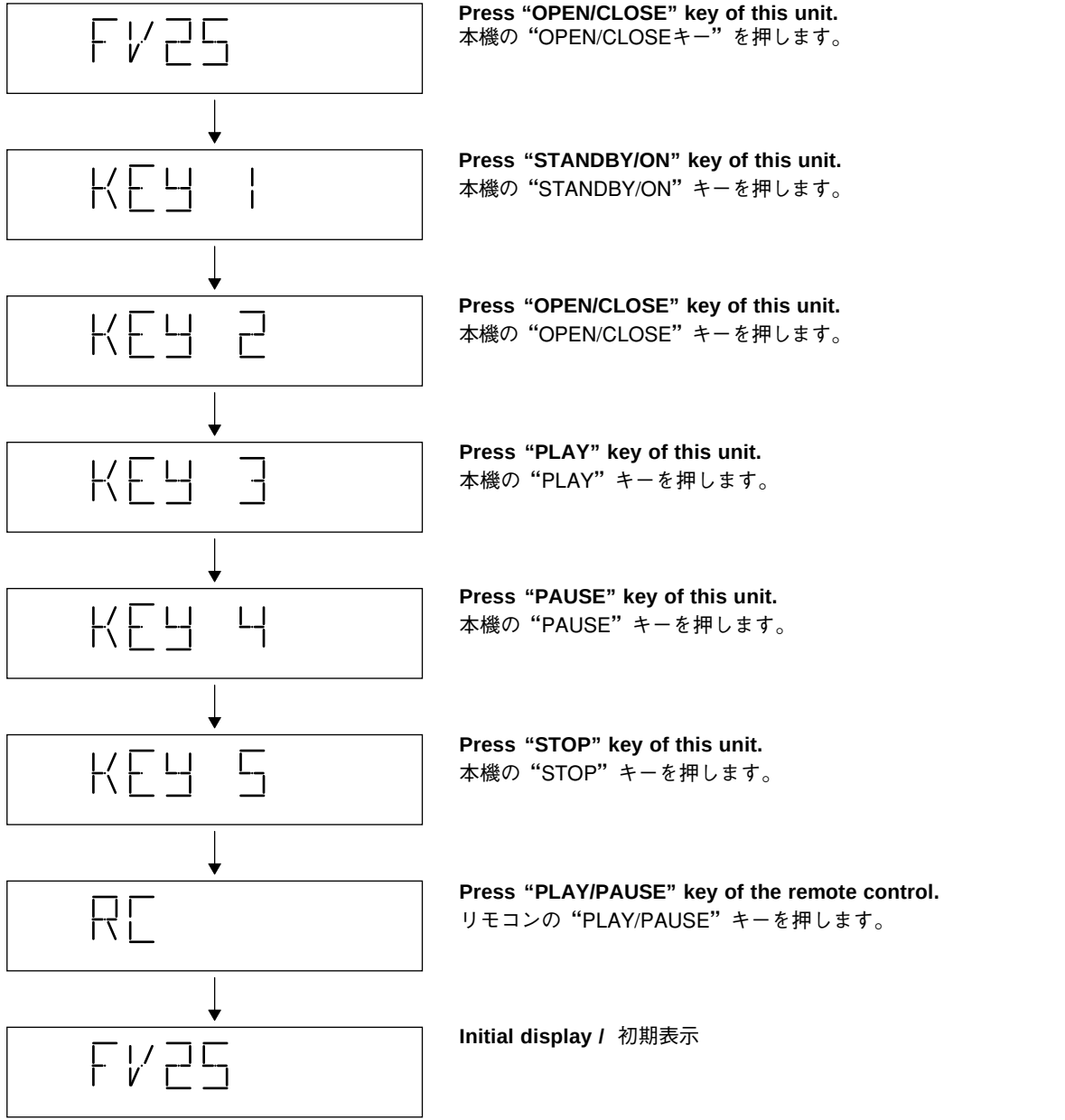
- a. 電源コードをACコンセントに接続します。
- b. “P A U S E”キーと“S T O P”キーを押しながら、“STANDBY/ON”キーを8秒間以上押し続けます。
- c. ファームウェアバージョンの“FV xx”が表示されます。

• ディスプレイテスト

指定されたキーを押すと、表示が下記のように変わります。

• Panel Key Test

The display changes as shown below by pressing the specified key.



• Canceling Test Mode

Disconnect the power cable from the AC power outlet.

• パネルキーテスト

指定されたキーを押すと、表示が下記のように変わります。

• テストモードの解除

ACコンセントから電源コードを抜きます。

■ BLOCK DIAGRAM

Interface between Loader Assy (KMH3133A) and MPEG:

- 1 GND
- 2 LD_DVD
- 3 NC
- 4 HFM
- 5 MD
- 6 LD_CD
- 7 VR_DVD
- 8 VR_CD
- 9 NC
- 10 E
- 11 VCC
- 12 VC
- 13 GND
- 14 F
- 15 B
- 16 A
- 17 RF
- 18 CD/DVD
- 19 D
- 20 C
- 21 T-
- 22 T+
- 23 F+
- 24 F-

- 1 SP-
- 2 SP+
- 3 L_SW
- 4 L_SW
- 5 SLED-
- 6 SLED+

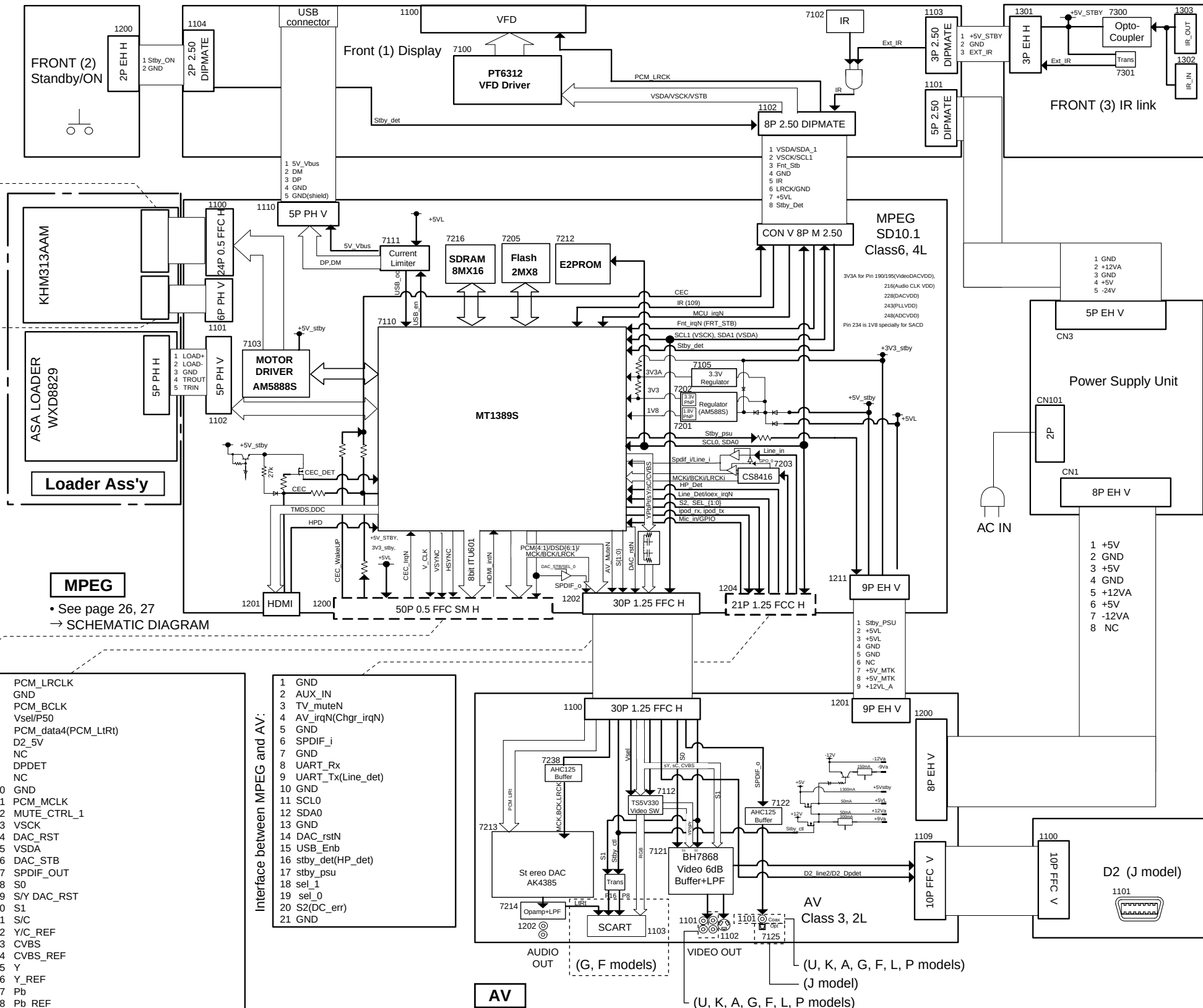
Interface between AV and MPEG:

- 1 VSYNC
- 2 HDMI_INT
- 3 HSYNC
- 4 GND
- 5 SPDIF
- 6 +5V_STBY
- 7 DSD_LFE
- 8 +5VL
- 9 PCM_LR (DSD_L)
- 10 +3V3_HDMI
- 11 PCM_LsRs (DSD_Ls)
- 12 +3V3_HDMI
- 13 PCM_ClfE (DSD_C)
- 14 +3V3_HDMI
- 15 PCM-Cs (DSD_R)
- 16 +3V3_HDMI
- 17 PCM_LtRt (DSD_Rs)
- 18 GND
- 19 PCM_LRCK
- 20 GND
- 21 PCM_BCLK (DSD_CLK)
- 22 GND
- 23 PCM_MLK
- 24 GND
- 25 GND
- 26 GND
- 27 VCLK
- 28 GND
- 29 Y0
- 30 GND
- 31 Y1
- 32 GND
- 33 Y2
- 34 GND
- 35 Y3
- 36 GND
- 37 Y4
- 38 GND
- 39 Y5
- 40 GND
- 41 Y6
- 42 GND
- 43 Y7
- 44 GND
- 45 SCL_1
- 46 GND
- 47 SDA_1
- 48 CEC_WAKEUP
- 49 CEC
- 50 CEC_INT

- 1 PCM_LRCLK
- 2 GND
- 3 PCM_BCLK
- 4 Vsel/P50
- 5 PCM_data4(PCM_LtRt)
- 6 D2_5V
- 7 NC
- 8 DPDET
- 9 Y0
- 10 GND
- 11 PCM_MCLK
- 12 MUTE_CTRL_1
- 13 VSC
- 14 DAC_RST
- 15 VSDA
- 16 DAC_STB
- 17 SPDIF_OUT
- 18 S0
- 19 S/Y DAC_RST
- 20 S1
- 21 S/C
- 22 Y/C_REF
- 23 CVBS
- 24 CVBS_REF
- 25 Y
- 26 Y_REF
- 27 Pb
- 28 Pb_REF
- 29 Pr
- 30 Pr_REF

Interface between MPEG and AV:

- 1 GND
- 2 AUX_IN
- 3 TV_muteN
- 4 AV_irqN(Chgr_irqN)
- 5 GND
- 6 SPDIF_i
- 7 GND
- 8 UART_Rx
- 9 UART_Tx(Line_det)
- 10 GND
- 11 SCL0
- 12 SDA0
- 13 GND
- 14 DAC_rstN
- 15 USB_Enb
- 16 stby_det(HP_det)
- 17 stby_psu
- 18 sel_1
- 19 sel_0
- 20 S2(DC_err)
- 21 GND



FRONT

• See page 30, 31 → SCHEMATIC DIAGRAM

Power Supply Unit

• See page 33 → SCHEMATIC DIAGRAM

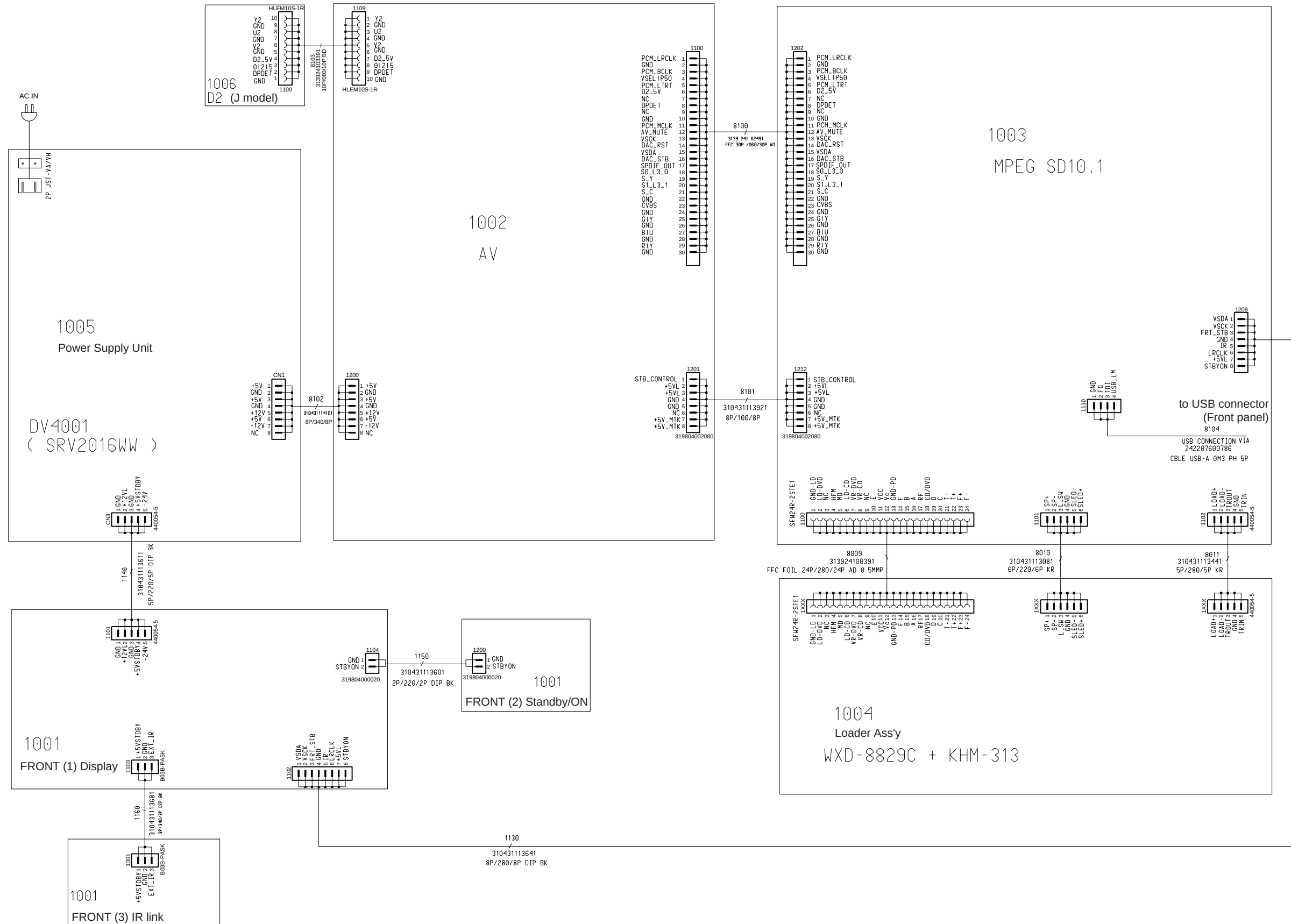
D2

• See page 32 → SCHEMATIC DIAGRAM

AV

• See page 28, 29 → SCHEMATIC DIAGRAM

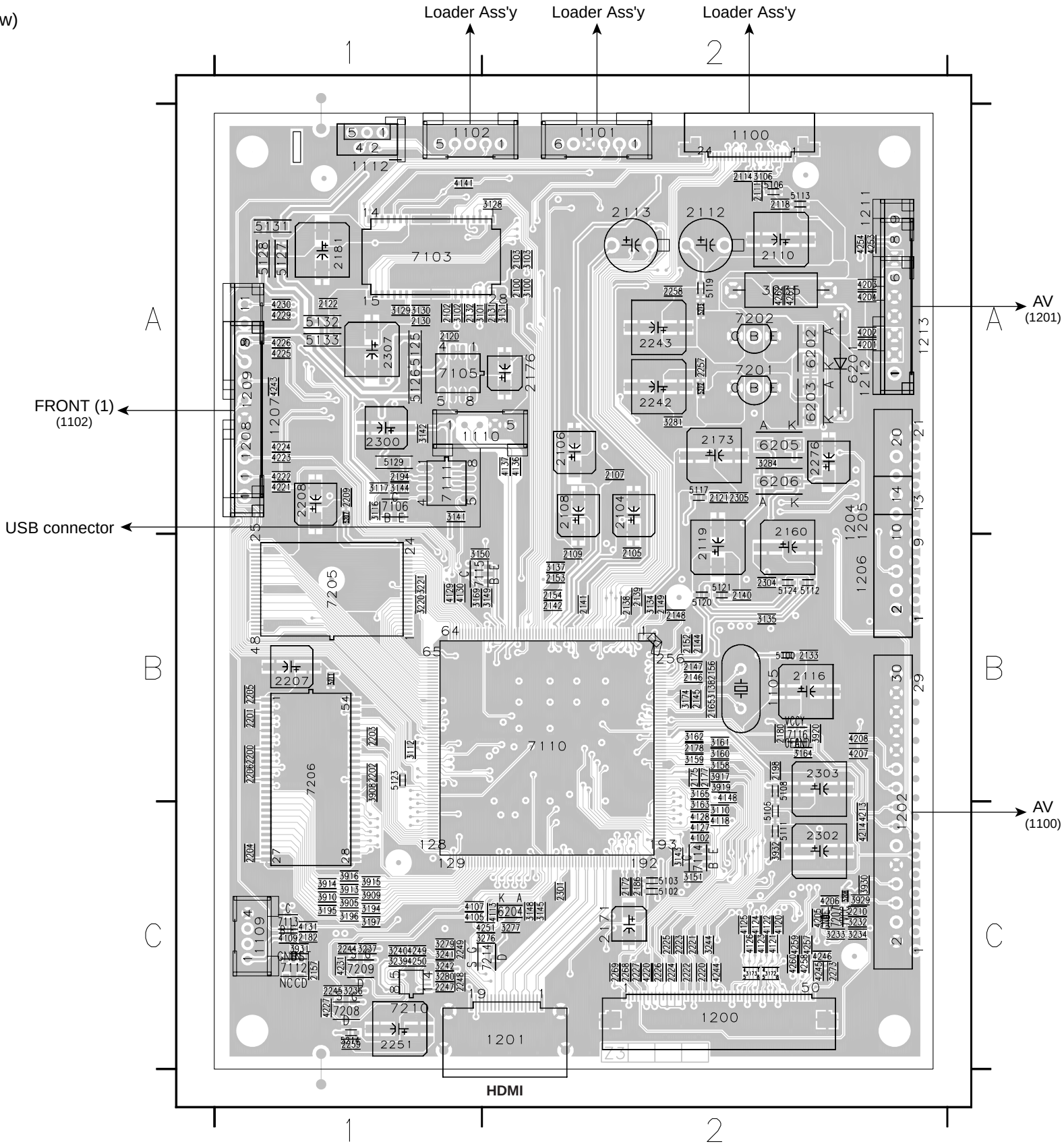
■ WIRING DIAGRAM



PRINTED CIRCUIT BOARDS

FOR INFORMATION ONLY (COMPONENT PARTS NOT AVAILABLE)

MPEG (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

1100	A2	2203	B1	3103	C1	4203	A1
1101	A2	2204	B1	3104	C1	4204	A1
1102	B2	2205	B1	3105	C1	4205	A1
1103	C1	2206	B1	3106	C1	4206	A1
1104	A1	2207	B1	3107	C1	4207	A1
1105	C2	2208	B1	3108	C1	4208	A1
1106	A1	2209	B1	3109	C1	4209	A1
1107	C2	2210	B1	3110	C1	4210	A1
1108	A1	2211	B1	3111	C1	4211	A1
1109	C2	2212	B1	3112	C1	4212	A1
1110	A1	2213	B1	3113	C1	4213	A1
1111	C2	2214	B1	3114	C1	4214	A1
1112	A1	2215	B1	3115	C1	4215	A1
1113	C2	2216	B1	3116	C1	4216	A1
1114	A1	2217	B1	3117	C1	4217	A1
1115	C2	2218	B1	3118	C1	4218	A1
1116	A1	2219	B1	3119	C1	4219	A1
1117	C2	2220	B1	3120	C1	4220	A1
1118	A1	2221	B1	3121	C1	4221	A1
1119	C2	2222	B1	3122	C1	4222	A1
1120	A1	2223	B1	3123	C1	4223	A1
1121	C2	2224	B1	3124	C1	4224	A1
1122	A1	2225	B1	3125	C1	4225	A1
1123	C2	2226	B1	3126	C1	4226	A1
1124	A1	2227	B1	3127	C1	4227	A1
1125	C2	2228	B1	3128	C1	4228	A1
1126	A1	2229	B1	3129	C1	4229	A1
1127	C2	2230	B1	3130	C1	4230	A1
1128	A1	2231	B1	3131	C1	4231	A1
1129	C2	2232	B1	3132	C1	4232	A1
1130	A1	2233	B1	3133	C1	4233	A1
1131	C2	2234	B1	3134	C1	4234	A1
1132	A1	2235	B1	3135	C1	4235	A1
1133	C2	2236	B1	3136	C1	4236	A1
1134	A1	2237	B1	3137	C1	4237	A1
1135	C2	2238	B1	3138	C1	4238	A1
1136	A1	2239	B1	3139	C1	4239	A1
1137	C2	2240	B1	3140	C1	4240	A1
1138	A1	2241	B1	3141	C1	4241	A1
1139	C2	2242	B1	3142	C1	4242	A1
1140	A1	2243	B1	3143	C1	4243	A1
1141	C2	2244	B1	3144	C1	4244	A1
1142	A1	2245	B1	3145	C1	4245	A1
1143	C2	2246	B1	3146	C1	4246	A1
1144	A1	2247	B1	3147	C1	4247	A1
1145	C2	2248	B1	3148	C1	4248	A1
1146	A1	2249	B1	3149	C1	4249	A1
1147	C2	2250	B1	3150	C1	4250	A1
1148	A1	2251	B1	3151	C1	4251	A1
1149	C2	2252	B1	3152	C1	4252	A1
1150	A1	2253	B1	3153	C1	4253	A1
1151	C2	2254	B1	3154	C1	4254	A1
1152	A1	2255	B1	3155	C1	4255	A1
1153	C2	2256	B1	3156	C1	4256	A1
1154	A1	2257	B1	3157	C1	4257	A1
1155	C2	2258	B1	3158	C1	4258	A1
1156	A1	2259	B1	3159	C1	4259	A1
1157	C2	2260	B1	3160	C1	4260	A1
1158	A1	2261	B1	3161	C1	4261	A1
1159	C2	2262	B1	3162	C1	4262	A1
1160	A1	2263	B1	3163	C1	4263	A1
1161	C2	2264	B1	3164	C1	4264	A1
1162	A1	2265	B1	3165	C1	4265	A1
1163	C2	2266	B1	3166	C1	4266	A1
1164	A1	2267	B1	3167	C1	4267	A1
1165	C2	2268	B1	3168	C1	4268	A1
1166	A1	2269	B1	3169	C1	4269	A1
1167	C2	2270	B1	3170	C1	4270	A1
1168	A1	2271	B1	3171	C1	4271	A1
1169	C2	2272	B1	3172	C1	4272	A1
1170	A1	2273	B1	3173	C1	4273	A1
1171	C2	2274	B1	3174	C1	4274	A1
1172	A1	2275	B1	3175	C1	4275	A1
1173	C2	2276	B1	3176	C1	4276	A1
1174	A1	2277	B1	3177	C1	4277	A1
1175	C2	2278	B1	3178	C1	4278	A1
1176	A1	2279	B1	3179	C1	4279	A1
1177	C2	2280	B1	3180	C1	4280	A1
1178	A1	2281	B1	3181	C1	4281	A1
1179	C2	2282	B1	3182	C1	4282	A1
1180	A1	2283	B1	3183	C1	4283	A1
1181	C2	2284	B1	3184	C1	4284	A1
1182	A1	2285	B1	3185	C1	4285	A1
1183	C2	2286	B1	3186	C1	4286	A1
1184	A1	2287	B1	3187	C1	4287	A1
1185	C2	2288	B1	3188	C1	4288	A1
1186	A1	2289	B1	3189	C1	4289	A1
1187	C2	2290	B1	3190	C1	4290	A1
1188	A1	2291	B1	3191	C1	4291	A1
1189	C2	2292	B1	3192	C1	4292	A1
1190	A1	2293	B1	3193	C1	4293	A1
1191	C2	2294	B1	3194	C1	4294	A1
1192	A1	2295	B1	3195	C1	4295	A1
1193	C2	2296	B1	3196	C1	4296	A1
1194	A1	2297	B1	3197	C1	4297	A1
1195	C2	2298	B1	3198	C1	4298	A1
1196	A1	2299	B1	3199	C1	4299	A1
1197	C2	2300	B1	3200	C1	4300	A1
1198	A1	2301	B1	3201	C1	4301	A1
1199	C2	2302	B1	3202	C1	4302	A1
1200	A1	2303	B1	3203	C1	4303	A1
1201	C2	2304	B1	3204	C1	4304	A1
1202	A1	2305	B1	3205	C1	4305	A1
1203	C2	2306	B1	3206	C1	4306	A1
1204	A1	2307	B1	3207	C1	4307	A1
1205	C2	2308	B1	3208	C1	4308	A1
1206	A1	2309	B1	3209	C1	4309	A1
1207	C2	2310	B1	3210	C1	4310	A1
1208	A1	2311	B1	3211	C1	4311	A1
1209	C2	2312	B1	3212	C1	4312	A1
1210	A1	2313	B1	3213	C1	4313	A1
1211	C2	2314	B1	3214	C1	4314	A1
1212	A1	2315	B1	3215	C1	4315	A1
1213	C2	2316	B1	3216	C1	4316	A1
1214	A1	2317	B1	3217	C1	4317	A1
1215	C2	2318	B1	3218	C1	4318	A1
1216	A1	2319	B1	3219	C1	4319	A1
1217	C2	2320	B1	3220	C1	4320	A1
1218	A1	2321	B1	3221	C1	4321	A1
1219	C2	2322	B1	3222	C1	4322	A1
1220	A1	2323	B1	3223	C1	4323	A1
1221	C2	2324	B1	3224	C1	4324	A1
1222	A1	2325	B1	3225	C1	4325	A1
1223	C2	2326	B1	3226	C1	4326	A1
1224	A1	2327	B1	3227	C1	4327	A1
1225	C2	2328	B1	3228	C1	4328	A1
1226	A1	2329	B1	3229	C1	4329	A1
1227	C2	2330	B1	3230	C1	4330	A1
1228	A1	2331	B1	3231	C1	4331	A1
1229	C2	2332	B1	3232	C1	4332	A1
1230	A1	2333	B1	3233	C1	4333	A1
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1232	A1	2335	B1	3235	C1	4335	A1
1233	C2	2336	B1	3236	C1	4336	A1
1234	A1	2337	B1	3237	C1	4337	A1
1235	C2	2338	B1	3238	C1	4338	A1
1236	A1	2339	B1	3239	C1	4339	A1
1237	C2	2340	B1	3240	C1	4340	A1
1238	A1	2341	B1	3241	C1	4341	A1
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1240	A1	2343	B1	3243	C1	4343	A1
1241	C2	2344	B1	3244	C1	4344	A1
1242	A1	2345	B1	3245	C1	4345	A1
1243	C2	2346	B1	3246	C1	4346	A1
1244	A1	2347	B1	3247	C1	4347	A1
1245	C2	2348	B1	3248	C1	4348	A1
1246	A1	2349	B1	3249	C1	4349	A1
1247	C2	2350	B1	3250	C1	4350	A1
1248	A1	2351	B1	3251	C1	4351	A1
1249	C2	2352	B1	3252	C1	4352	A1
1250	A1	2353	B1	3253	C1	4353	A1
1251	C2	2354	B1	3254	C1	4354	A1
1252	A1	2355	B1	3255	C1	4355	A1
1253	C2	2356	B1	3256	C1	4356	A1
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1255	C2	2358	B1	3258	C1	4358	A1
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1257	C2	2360	B1	3260	C1	4360	A1
1258	A1	2361	B1	3261	C1	4361	A1
1259	C2	2362	B1	3262	C1	4362	A1
1260	A1	2363	B1	3263	C1	4363	A1
1261	C2	2364	B1	3264	C1	4364	A1
1262	A1	2365	B1	3265	C1	4365	A1
1263	C2	2366	B1	3266	C1	4366	A1
1264	A1	2367	B1	3267	C1	4367	A1
1265	C2	2368	B1	3268	C1	4368	A1
1266	A1	2369	B1	3269	C1	4369	A1
1267	C2	2370	B1	3270	C1	4370	A1
1268	A1	2371	B1	3271	C1	4371	A1
1269	C2	2372	B1	3272	C1	4372	A1
1270	A1	2373	B1	3273	C1	4373	A1
1271	C2	2374	B1	3274	C1	4374	A1
1272	A1	2375	B1	3275	C1	4375	A1
1273	C2	2376	B1	3276	C1	4376	A1
1274	A1	2377	B1	3277	C1	4377	A1
1275	C2	2378	B1	3278	C1	4378	A1
1276	A1	2379	B1	3279	C1	4379	A1
1277	C2	2380	B1	3280	C1	4380	A1
1278	A1	2381	B1	3281	C1	4381	A1
1279	C2	2382	B1	3282	C1	4382	A1
1280	A1	2383	B1	3283	C1	4383	A1
1281	C2	2384	B1	3284	C1	4384	A1
1282	A1	2385	B1	3285	C1	4385	A1
1283	C2	2386	B1	3286	C1	4386	A1
1284	A1	2387	B1	3287	C1	4387	A1
1285	C2	2388	B1				

[illegible]

AV (Top view)

The first digit of a component indicates the component type.

1xxx : Connector

3xxx : Resistor

5xxx : Coil

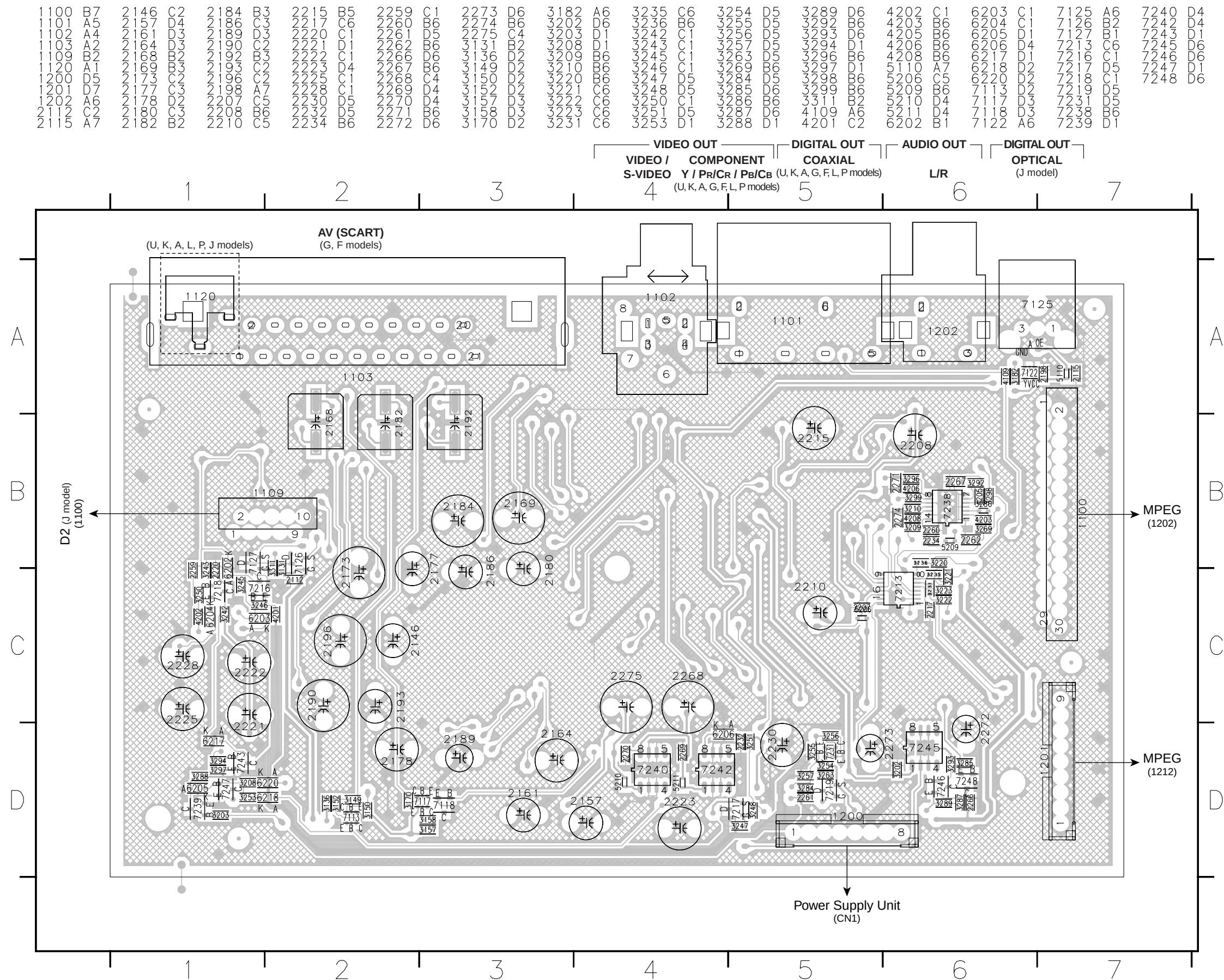
7xxx : IC, Transistor, FET

2xxx : Capacitor

4xxx : SMD jumper

6xxx : Diode

9xxx : Wire jumper



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

1	9	A	3	3	2	3	9	C	3	4	1	0	2	C	4	5	1	0	8	C	4	7	1	1	2	B	4	
2	4	A	3	3	2	4	0	C	3	4	1	0	3	B	4	5	2	0	5	B	3	7	1	1	5	A	7	
3	5	A	3	3	2	4	1	C	3	4	1	0	4	B	4	5	2	0	7	B	3	7	1	1	6	A	7	
4	6	A	3	3	2	4	4	C	3	4	1	0	5	B	2	5	2	0	8	D	1	7	1	1	9	B	7	
5	7	A	3	3	2	4	1	C	3	4	1	0	6	B	2	5	2	0	8	B	2	7	1	1	2	B	6	
6	8	A	2	3	4	0	0	B	2	5	4	1	0	7	D	5	6	1	0	8	A	4	7	1	2	1	C	5
7	9	A	2	3	4	0	0	B	2	5	4	1	0	8	D	5	6	1	1	0	A	4	7	2	0	8	A	2
8	0	A	3	3	4	0	0	C	2	5	4	2	1	0	A	2	6	1	1	1	A	4	7	2	0	9	A	2
9	1	B	3	3	4	0	0	C	2	5	5	1	0	2	B	4	6	1	1	2	A	6	7	2	1	1	A	3
0	2	B	3	3	4	0	0	C	2	5	5	1	0	6	D	4	6	1	1	3	A	6	7	2	1	2	A	2
1	3	A	3	4	1	0	4	C	4	5	1	0	7	D	5	6	1	1	4	A	5	7	2	1	4	B	3	

AV (Bottom view)

2	1	1	3	B	3
2	1	1	4	C	5
2	1	4	8	A	4
2	1	4	9	B	3
2	1	5	1	A	4
2	1	5	2	A	4
2	1	5	3	A	3
2	1	5	4	A	3
2	1	5	5	A	3
2	1	5	6	D	4
2	1	5	8	A	3

2159	A3
2160	D5
2162	A7
2163	C4
2165	A6
2166	A6
2167	C5
2170	C5
2171	A6
2172	C5
2174	A5

2176	C5
2179	C5
2181	A6
2183	C5
2185	C5
2187	C5
2188	A6
2191	C5
2194	C4
2195	A5
2197	C5

2199	C4
2201	B3
2206	A2
2209	B3
2211	B3
2212	B3
2213	B3
2214	A2
2216	C3
2218	C3
2219	C3

2265	D1
2276	C1
3112	C5
3115	C4
3116	B5
3120	A4
3124	C6
3126	C3
3129	A4
3130	A4
3132	A3

31	33	A3
31	35	A3
31	37	A3
31	51	A3
31	53	A7
31	54	A7
31	55	B7
31	56	B7
31	59	A6
31	61	A6
31	71	B7

3172	B6
3173	C5
3174	A6
3175	C5
3176	B3
3177	A6
3181	A5
3183	B5
3184	A6
3185	C5
3186	C5

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

3198	C
3199	C
3201	A
3204	B
3205	B
3206	B
3207	B
3215	A
3216	A
3217	B
3218	B

3219	A
3224	B
3225	B
3226	B
3227	B
3228	A
3229	B
3230	A
3232	B
3233	B
3237	A

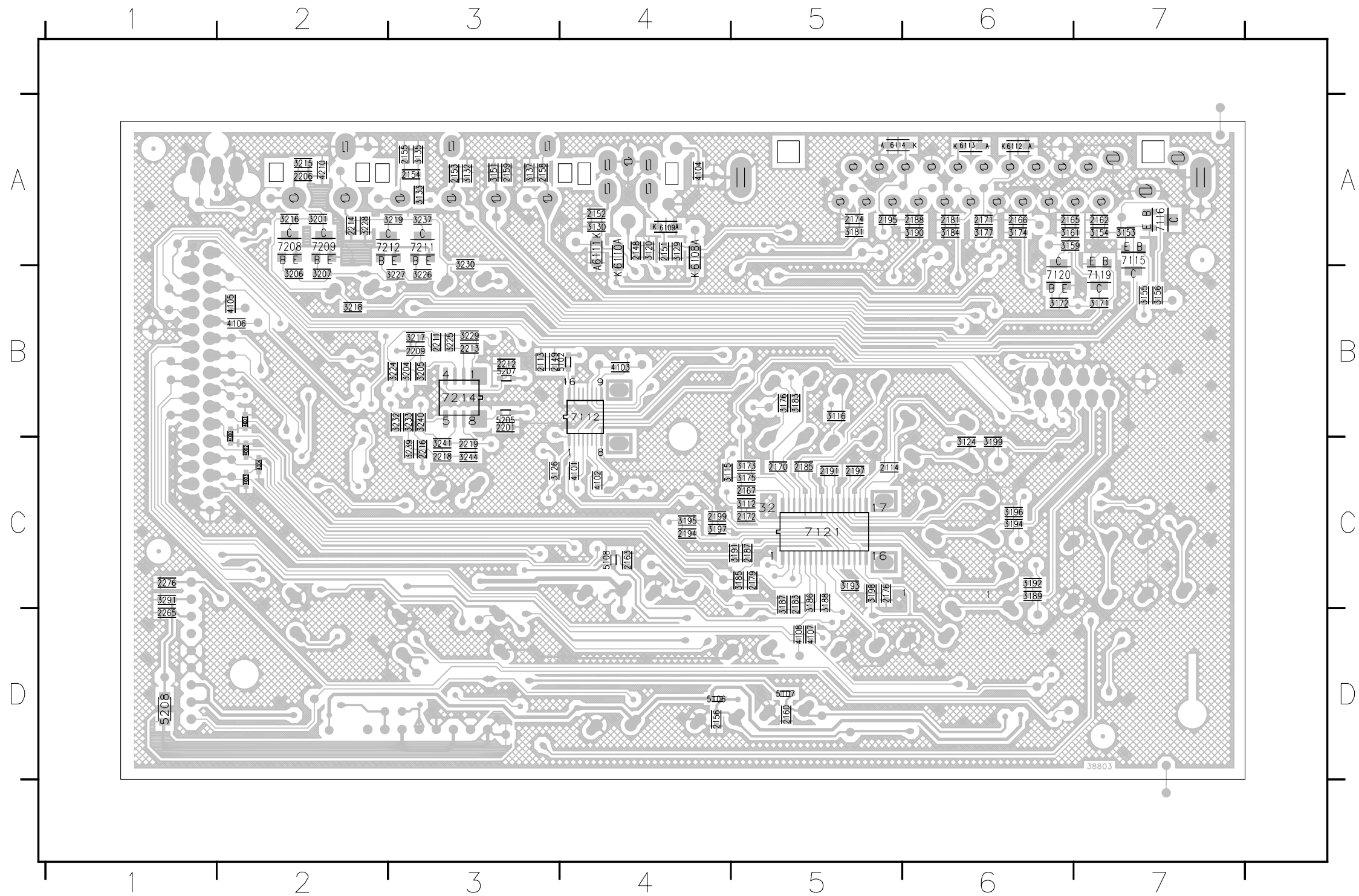
3239	C
3240	E
3241	C
3244	C
3291	C
4000	E
4001	E
4002	C
4003	C
4004	C
4101	C

4	1	0	2	C
4	1	0	3	E
4	1	0	4	A
4	1	0	5	E
4	1	0	6	E
4	1	0	7	D
4	1	0	8	D
4	2	1	0	A
5	1	0	2	E
5	1	0	6	D
5	1	0	7	D

5108	C
5205	E
5207	E
5208	D
6108	A
6109	A
6110	A
6111	A
6112	A
6113	A
6114	A

71112	E
71115	A
71116	A
71119	E
71120	E
71121	C
7208	A
7209	A
7211	A
7212	A
7214	E

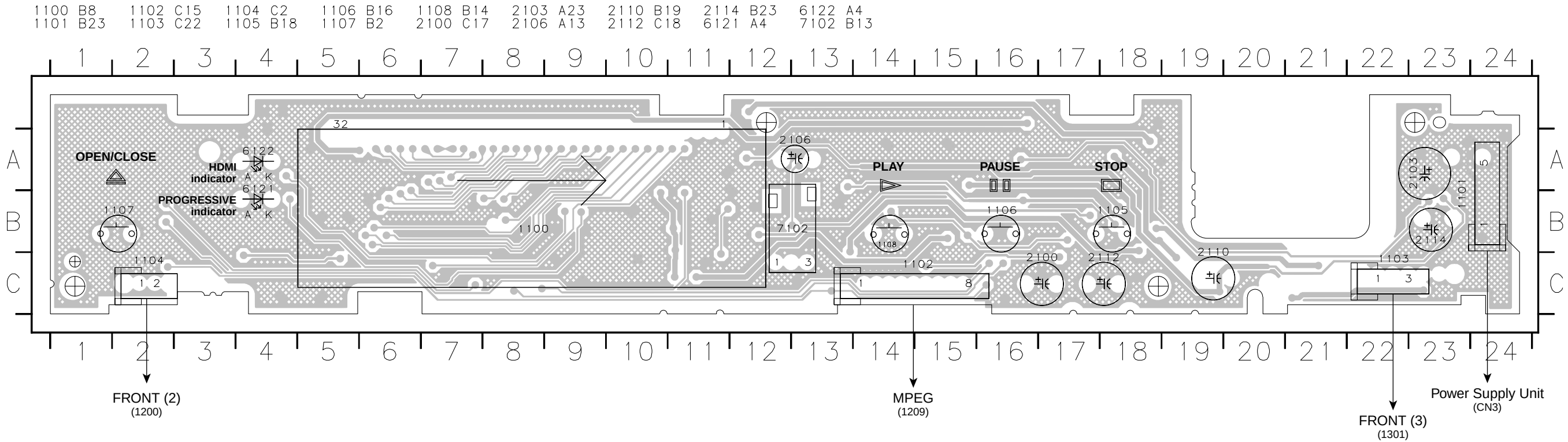
4
7
7
7
6
0
0
5
3
0
0



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

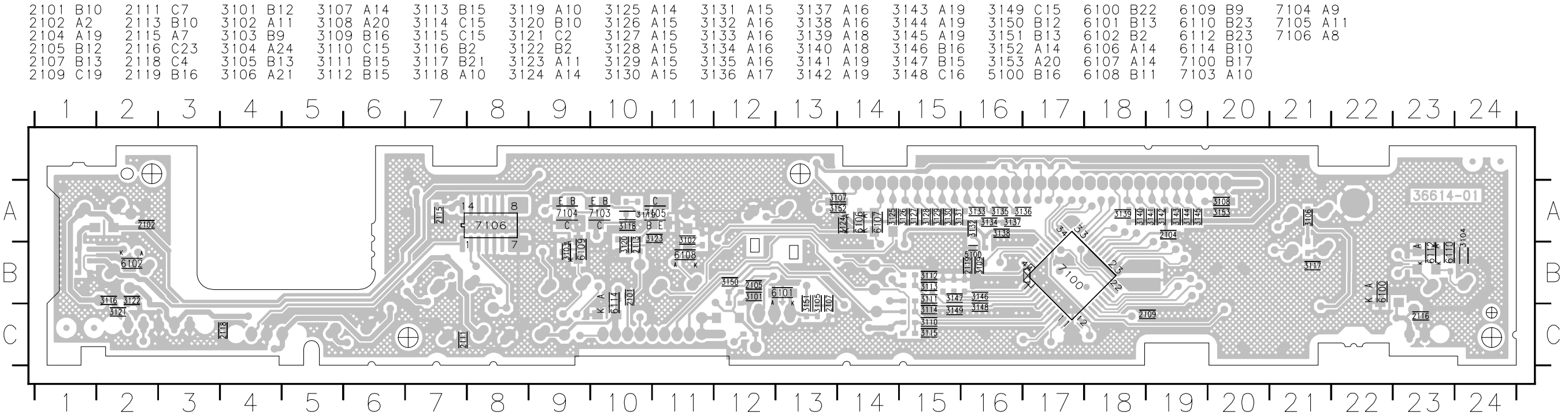
FRONT (1) (Top view)

DISPLAY



FRONT (1) (Bottom view)

DISPLAY

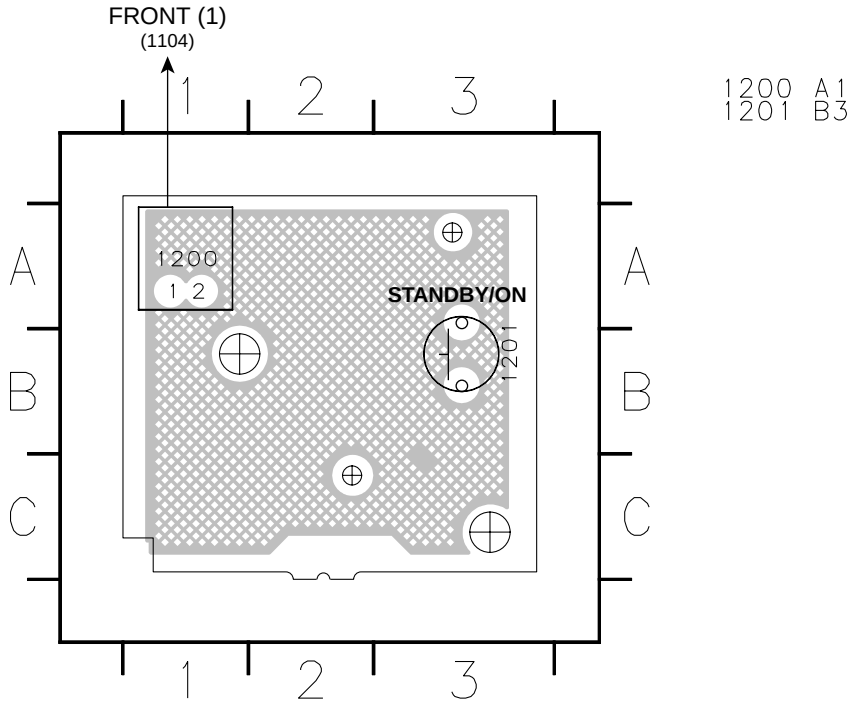


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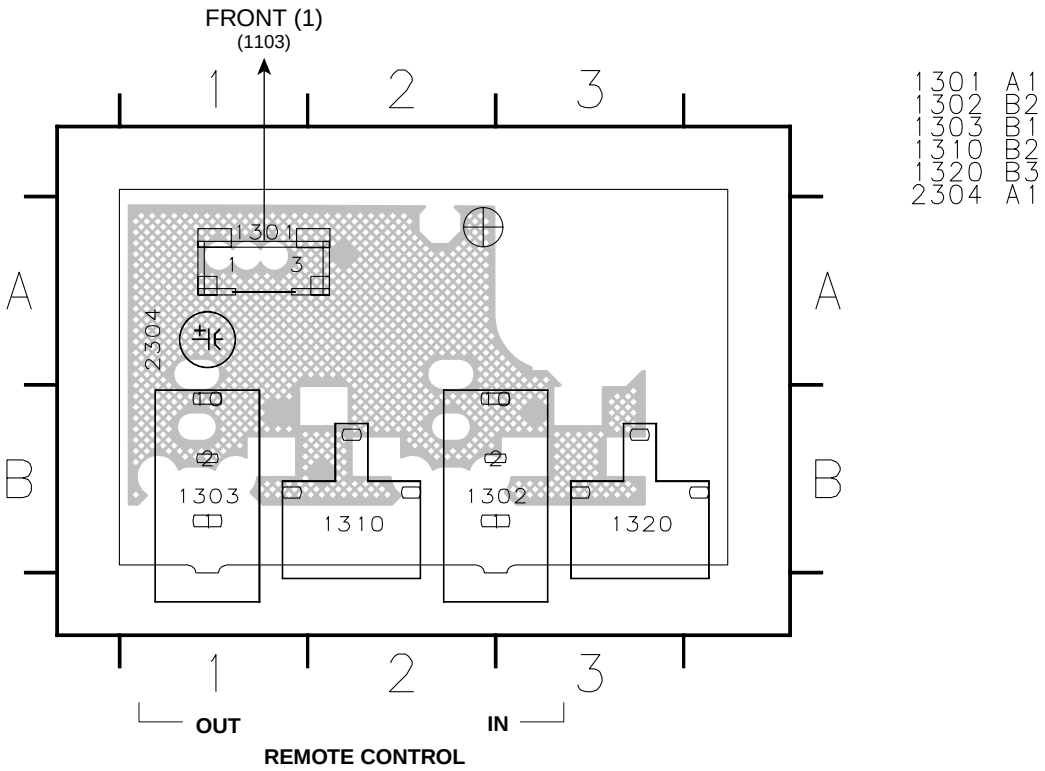
FRONT (2) (Top view)

STANDBY/ON



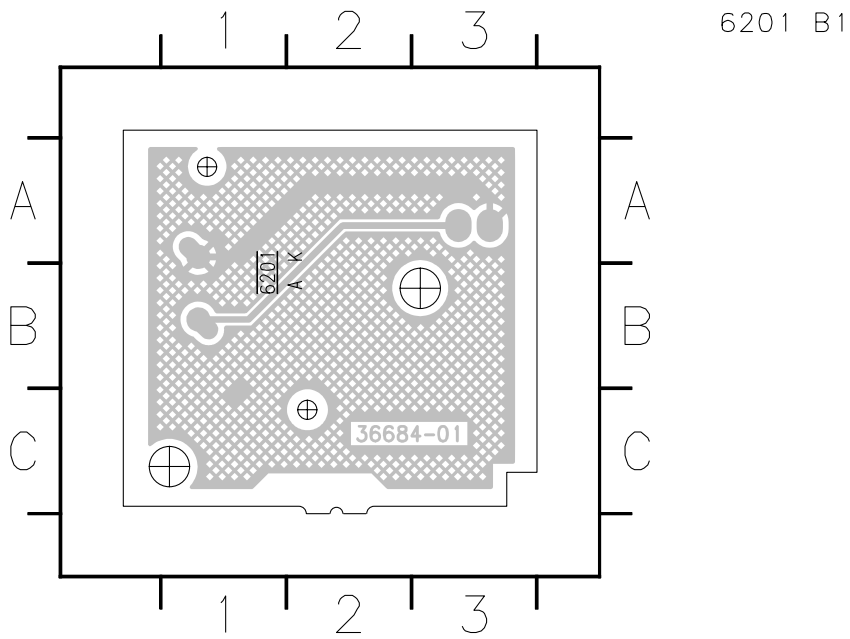
FRONT (3) (Top view)

IR LINK



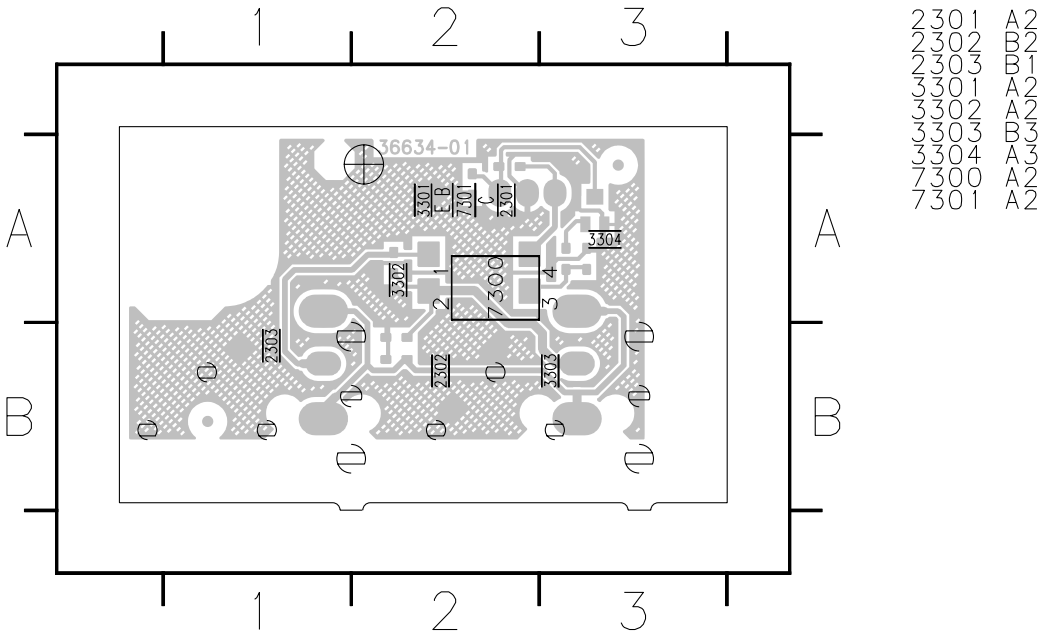
FRONT (2) (Bottom view)

STANDBY/ON



FRONT (3) (Bottom view)

IR LINK

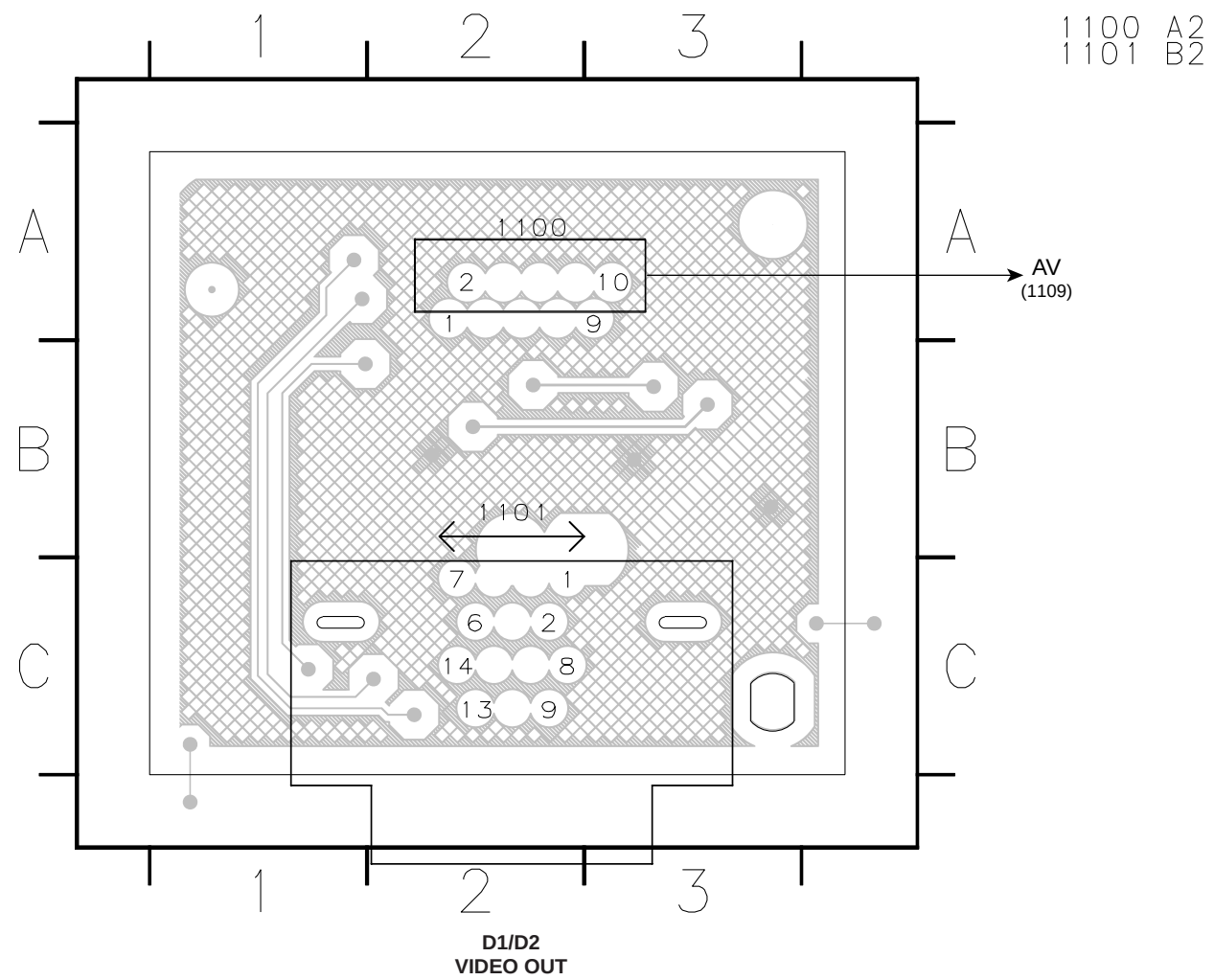


The first digit of a component indicates the component type.

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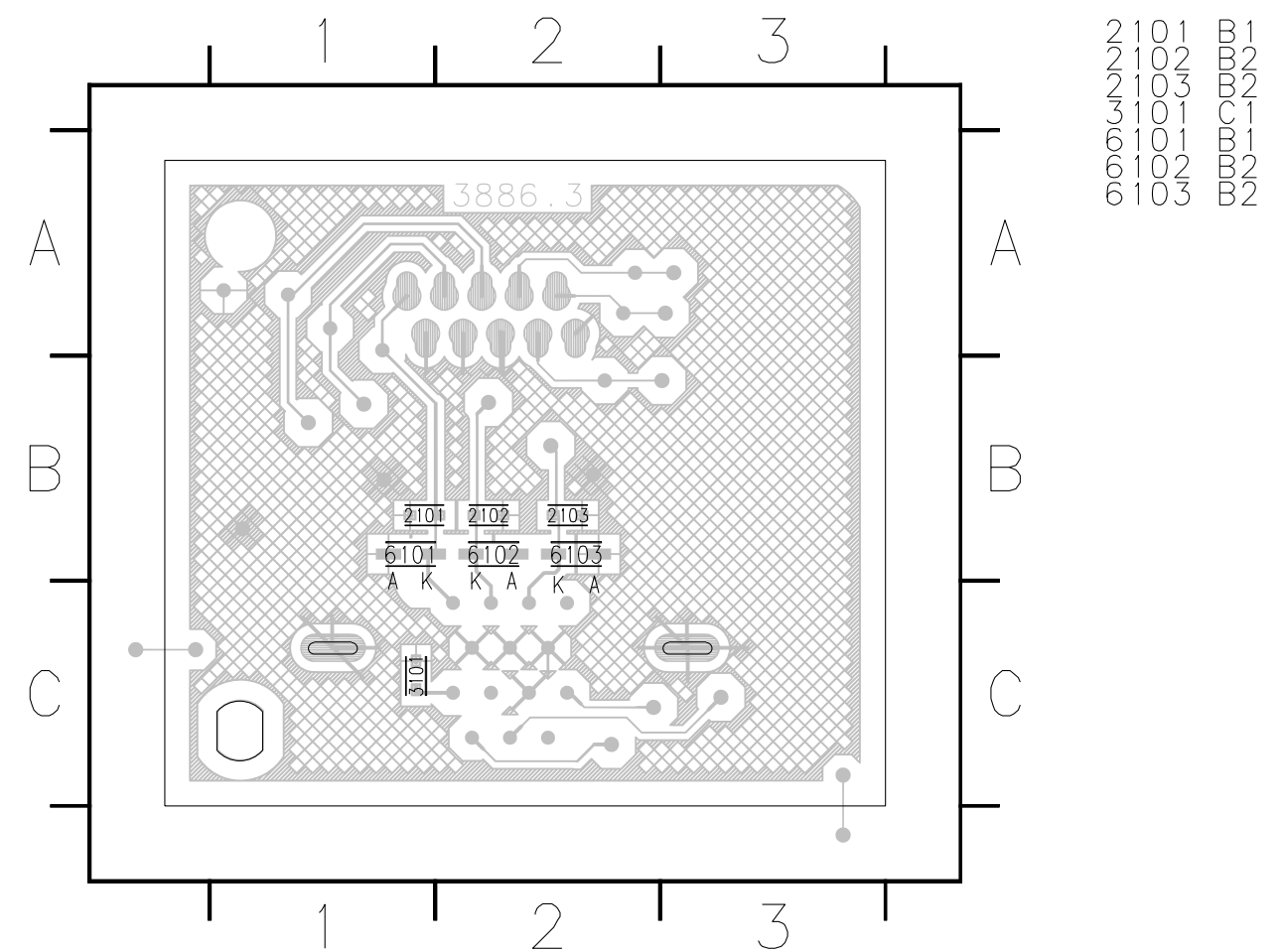
D2 (Top view)

J model

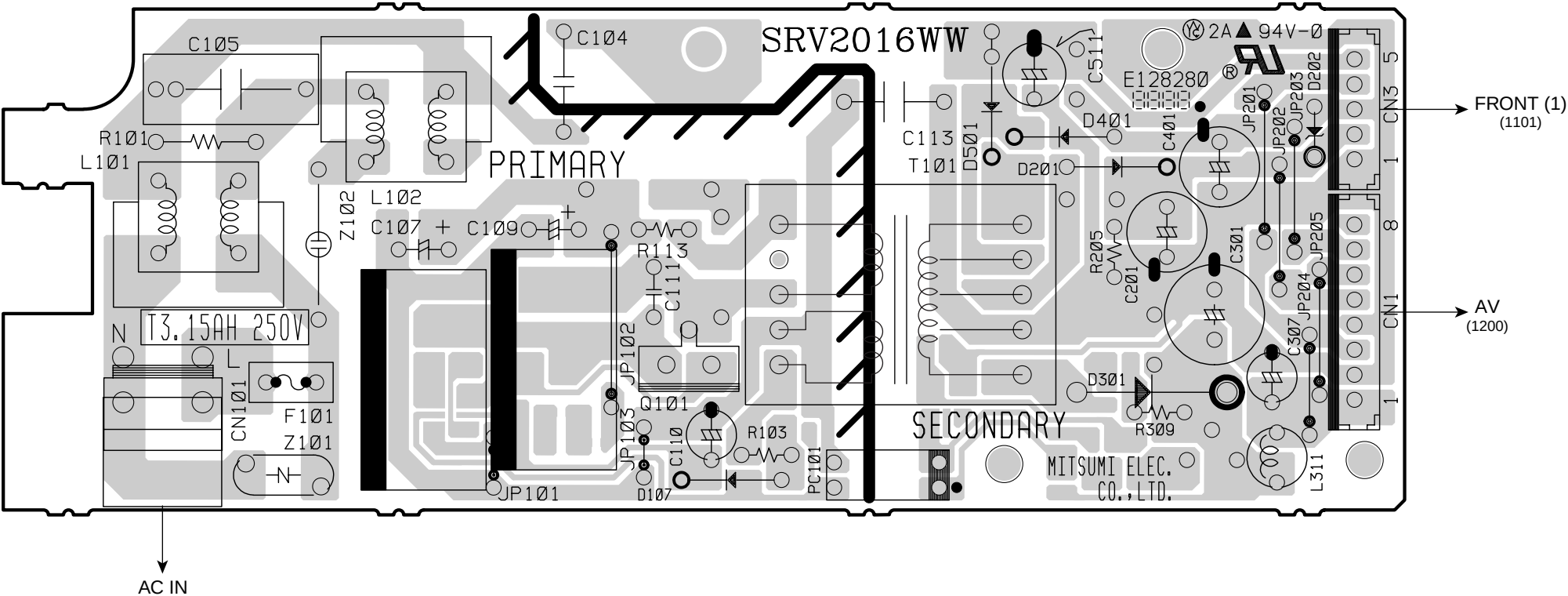


D2 (Bottom view)

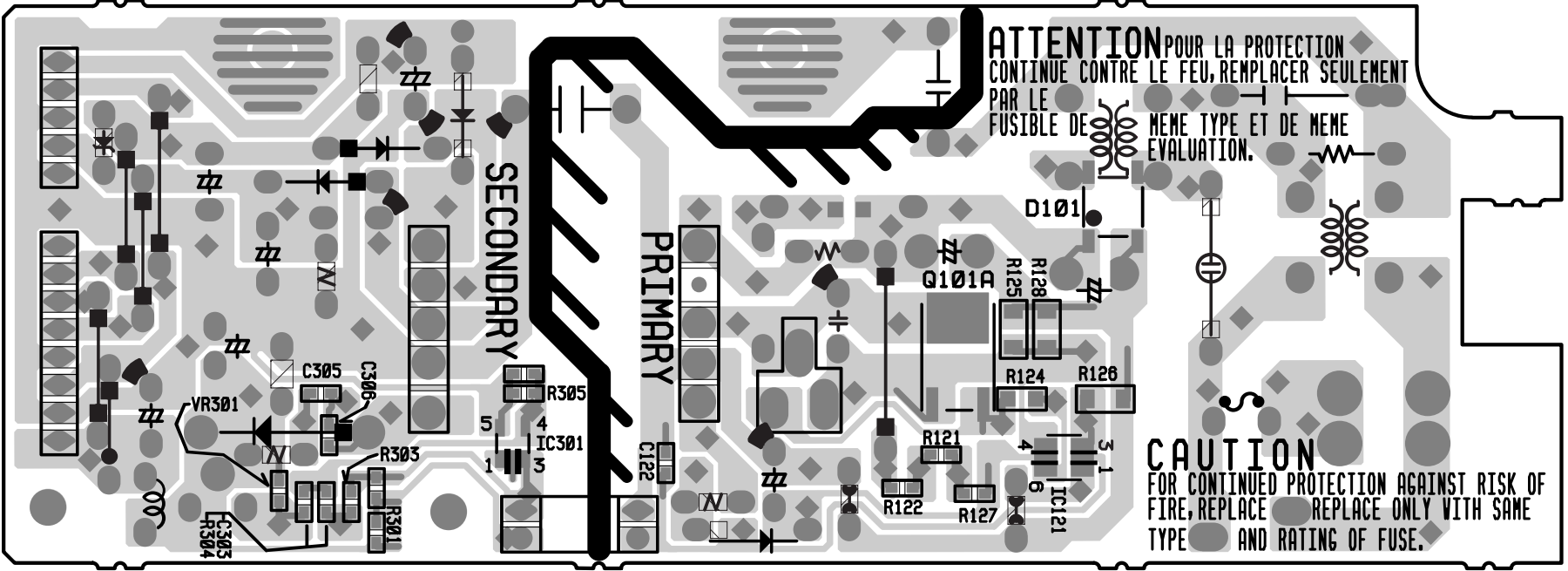
J model



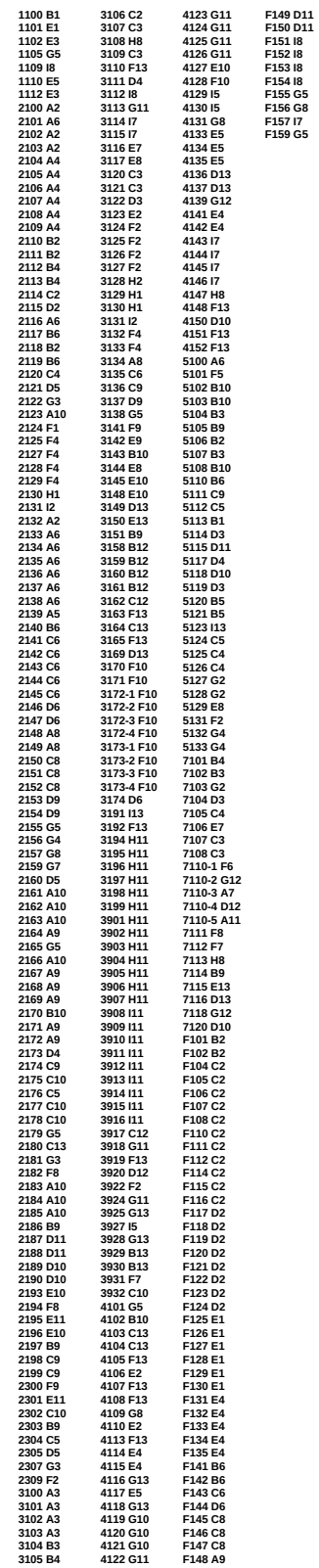
POWER SUPPLY UNIT (Top view)



POWER SUPPLY UNIT (Bottom view)



9xxx : Wire jumper

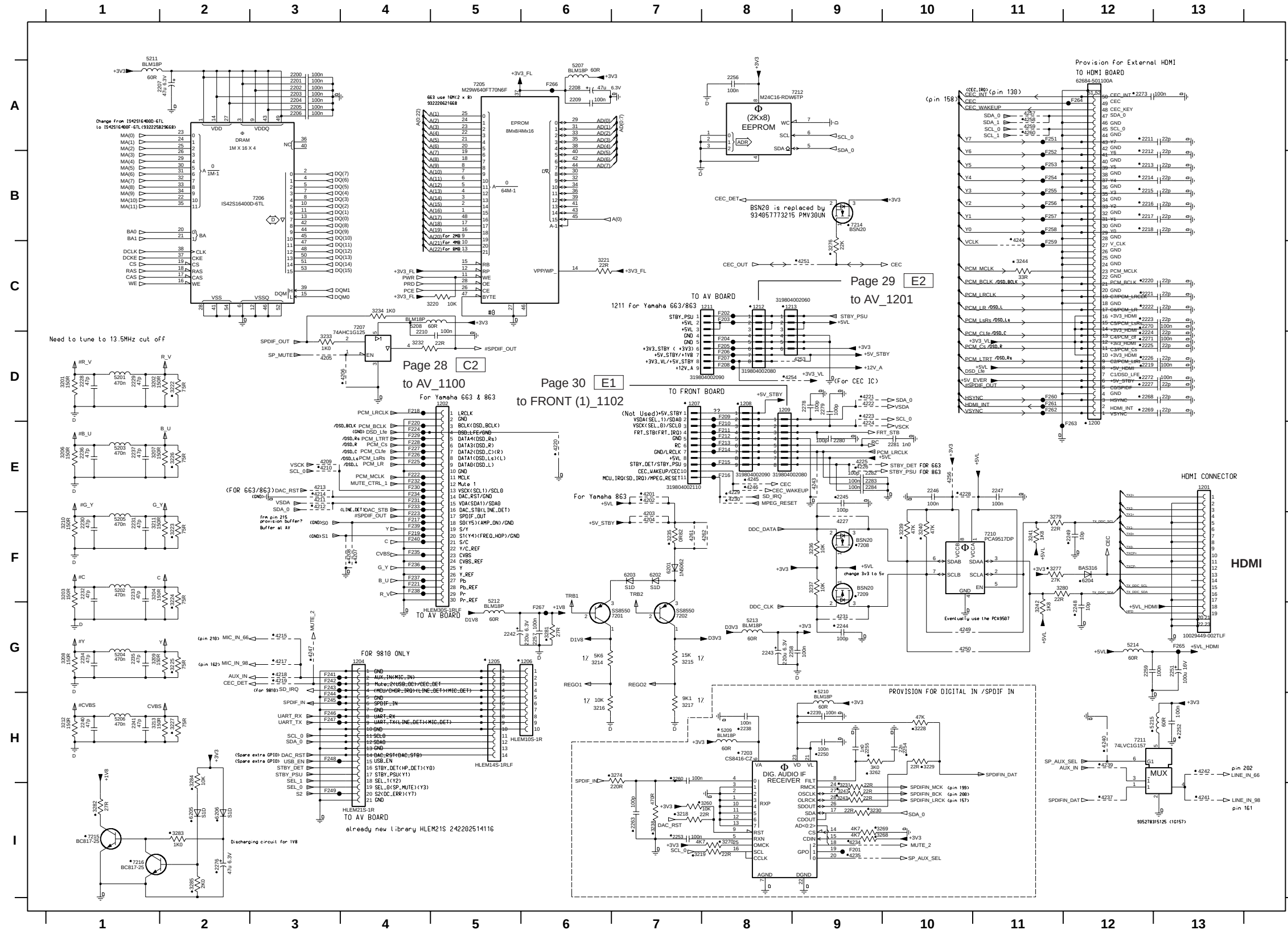


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MPEG 2/2



1200 D12	3231 I9	7215 I1
1201 E13	3232 D4	7216 I1
1202 D5	3233 D3	F201 H8
1204 G4	3234 C4	F202 C8
1205 G5	3235 F7	F203 C8
1206 G6	3236 F9	F204 D8
1207 D7	3237 F9	F205 D8
1208 D8	3238 I7	F206 D8
1209 D8	3239 F10	F207 D8
1211 C8	3240 F10	F208 D8
1212 C8	3241 F11	F209 D8
1213 C8	3242 G11	F210 E8
2200 A3	3243 I9	F211 E8
2201 A3	3244 C11	F212 E8
2202 A3	3247 I9	F213 E8
2203 A3	3260 I8	F214 E8
2204 A3	3262 H9	F215 E8
2205 A3	3268 I10	F216 E8
2206 A3	3269 I10	F217 F4
2207 A2	3270 I8	F218 D4
2208 A6	3274 H7	F219 F4
2209 A6	3276 C9	F220 E4
2210 C4	3277 F11	F221 F4
2211 A12	3279 F11	F222 E4
2212 B12	3280 F11	F223 F4
2213 B12	3281 G6	F224 E4
2214 B12	3282 I1	F225 E4
2215 B12	3283 I2	F226 E4
2216 B12	3284 H2	F227 E4
2217 B12	3285 I2	F228 E4
2218 B12	4201 E7	F229 E4
2219 D12	4202 E7	F230 E4
2220 C12	4203 F7	F231 E4
2221 C12	4204 F7	F232 E4
2222 C12	4205 D3	F233 E4
2223 C12	4206 D4	F234 E4
2224 D12	4207 F4	F235 F4
2225 D12	4208 F4	F236 F4
2226 D12	4209 E3	F237 F4
2227 D12	4210 E3	F238 F4
2228 D1	4211 E3	F239 F4
2229 D1	4212 E3	F240 F4
2230 F1	4213 E3	F241 G3
2231 F1	4214 E3	F242 G3
2232 F1	4215 G3	F243 G3
2233 F1	4217 G3	F244 H3
2234 G1	4218 G3	F245 H3
2235 G1	4219 G3	F246 H3
2236 E1	4220 E6	F247 H3
2237 E1	4221 D9	F248 H3
2238 H8	4222 D9	F249 I3
2239 H8	4223 D9	F251 A11
2240 H1	4224 E9	F252 B11
2241 H1	4225 E9	F253 B11
2242 G5	4226 E9	F254 B11
2243 G8	4227 F9	F255 B11
2244 G9	4228 E10	F256 B11
2245 E9	4229 E8	F257 B11
2246 E10	4230 E8	F258 B11
2247 E11	4231 G9	F259 C11
2248 G12	4234 I9	F260 D11
2249 F12	4235 I9	F261 D11
2250 H9	4237 I12	F262 D11
2251 G13	4239 H12	F263 E12
2252 H13	4240 H12	F264 A12
2253 I7	4241 I13	F265 G13
2254 H10	4242 H13	F266 A6
2255 H9	4243 E9	F267 G6
2256 A8	4244 C11	
2257 G6	4245 E8	
2258 G9	4246 E8	
2259 G12	4247 G3	
2260 H7	4249 G10	
2263 I7	4250 G10	
2268 D12	4251 C9	
2269 D12	4253 D9	
2270 C12	4254 D8	
2271 D12	4255 E10	
2272 D12	4257 A11	
2273 A12	4258 A11	
2276 I2	4259 A11	
2278 D9	4260 A11	
2279 D9	4261 F7	
2280 E9	4262 F8	
2281 E10	5201 D1	
2282 E9	5202 F1	
2283 E9	5203 E1	
2284 E9	5204 G1	
3201 D1	5205 F1	
3202 D1	5206 H1	
3203 F1	5207 A6	
3204 F1	5208 C4	
3206 E1	5209 H8	
3207 E1	5210 H9	
3208 G1	5211 A1	
3209 G1	5212 G5	
3210 F1	5213 G8	
3211 F1	5214 G12	
3212 H1	5215 H13	
3213 H1	6201 F7	
3214 G6	6202 F7	
3215 G7	6203 F7	
3216 H6	6204 F12	
3217 H7	6205 I2	
3218 I7	6206 I2	
3219 I7	7201 G7	
3220 C5	7202 G7	
3221 C6	7203 H8	
3222 D2	7205 A5	
3223 F2	7206 B3	
3224 F2	7207 C4	
3225 G2	7208 F9	
3226 E2	7209 F9	
3227 H2	7210 F11	
3228 H10	7211 H12	
3229 H10	7212 A9	
3230 I9	7214 B9	

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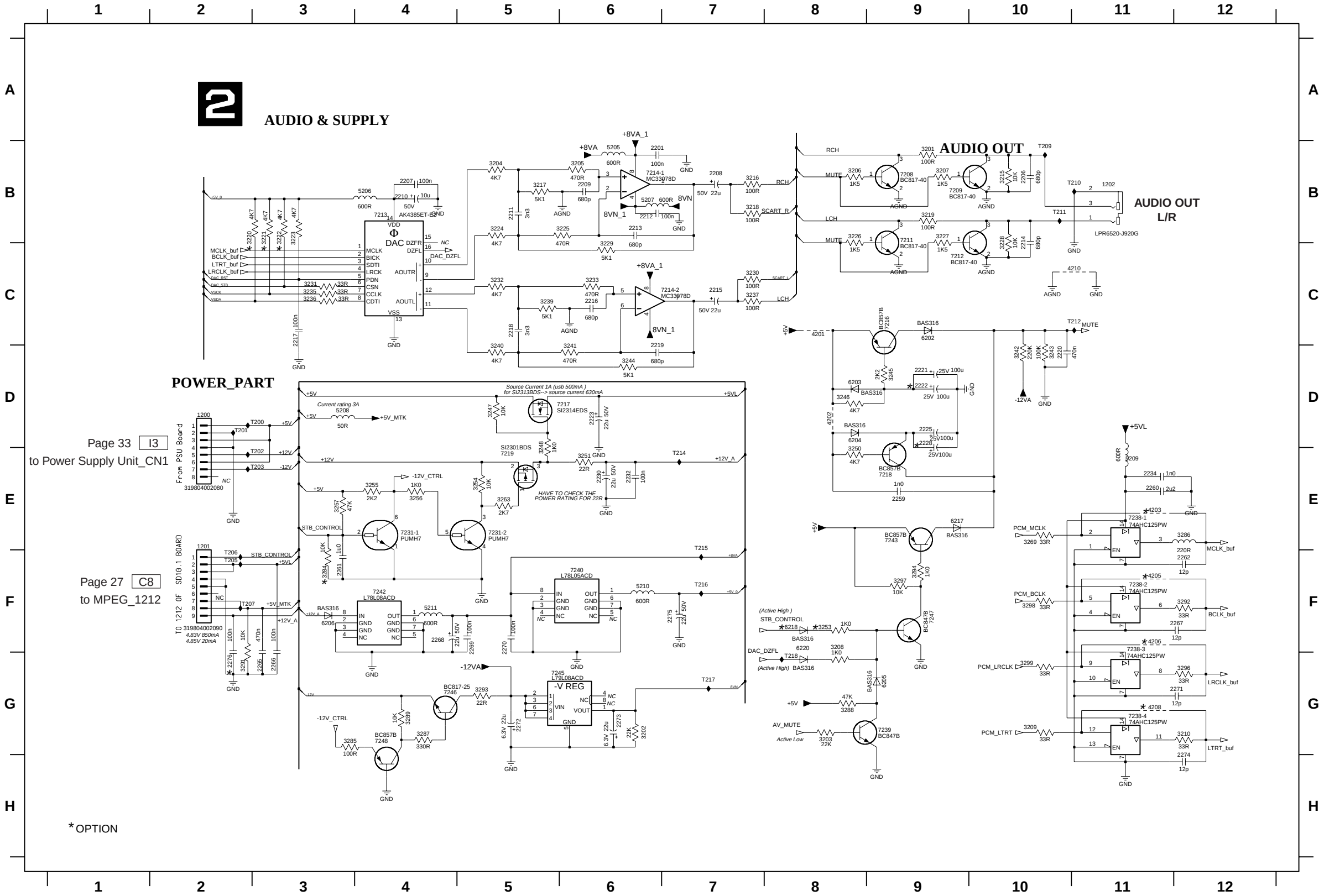
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AV 2/2



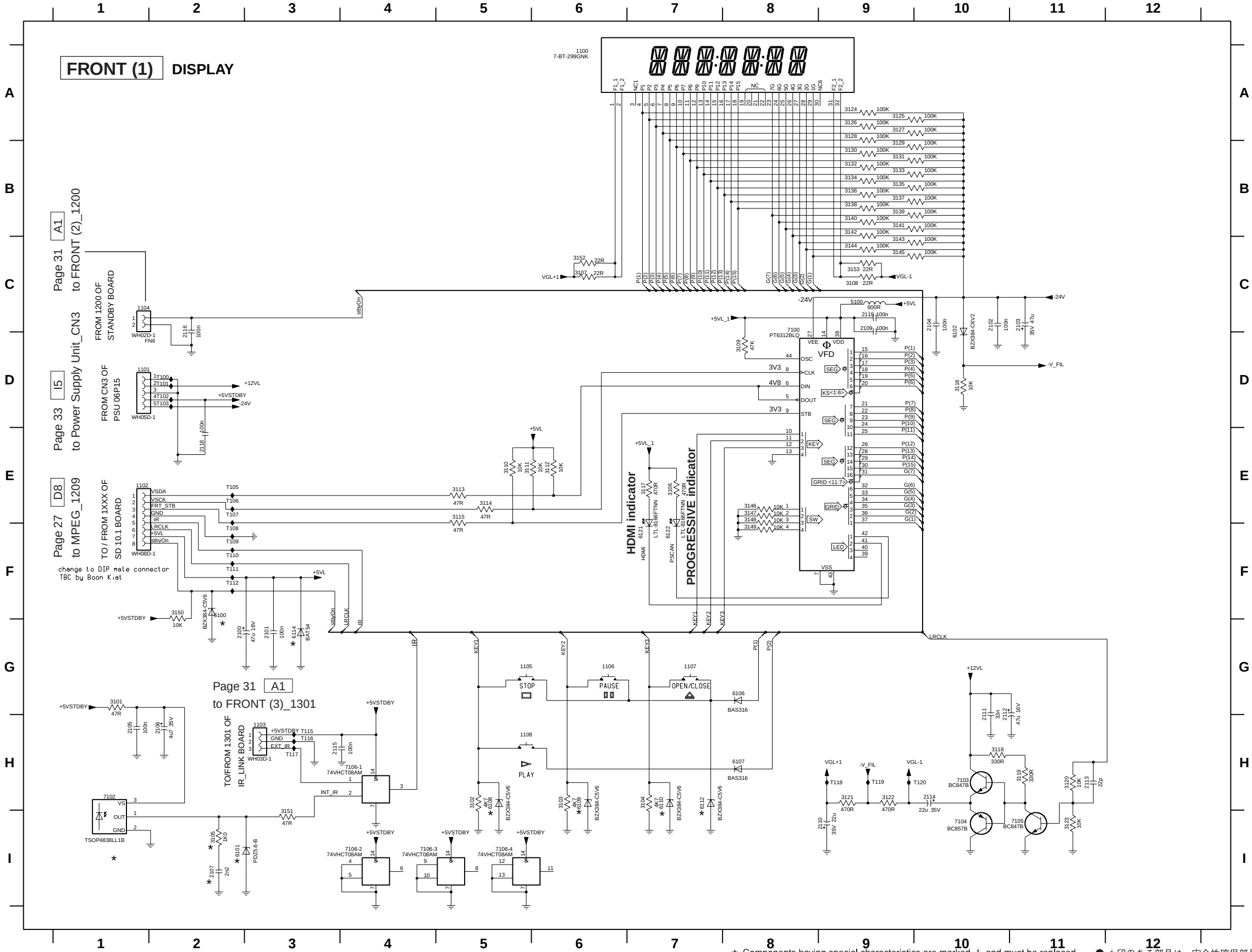
1200 D2	3289 G4
1201 E2	3291 G2
1202 B11	3292 F12
2201 B6	3293 G5
2206 B10	3294 F9
2207 B4	3296 G12
2208 B7	3297 F9
2209 B6	3298 F10
2210 B4	3299 G10
2211 B5	4201 C8
2212 B6	4202 D8
2213 B6	4203 E11
2214 B10	4205 F11
2215 C7	4206 F11
2216 C6	4208 G11
2217 C3	4210 C11
2218 C5	5205 B6
2219 D6	5206 B4
2220 D10	5207 B6
2221 D9	5208 D3
2222 D9	5209 E11
2223 D6	5210 F6
2225 D9	5211 F4
2228 D9	6202 C9
2230 E6	6203 D8
2232 E6	6204 D8
2234 E11	6205 G9
2259 E9	6206 F3
2260 E11	6217 E9
2261 F3	6218 F8
2262 F12	6220 F8
2265 G3	7208 B9
2266 G3	7209 B9
2267 F12	7211 B9
2268 F4	7212 C9
2269 F5	7213 B4
2270 F5	7214-1 B6
2271 G12	7214-2 C6
2272 G5	7216 C9
2273 G6	7217 D5
2274 H12	7218 E9
2275 F7	7219 E5
2276 G2	7231-1 E4
3201 B9	7231-2 E5
3202 G6	7238-1 E11
3203 G8	7238-2 F11
3204 B5	7238-3 F11
3205 B6	7238-4 G11
3206 B8	7239 G9
3207 B9	7240 F6
3208 F8	7242 F4
3209 G10	7243 E9
3210 G12	7245 G6
3215 B10	7246 G4
3216 B7	7247 F9
3217 B5	7248 G4
3218 B7	7200 D3
3219 B9	7201 D2
3220 B2	7202 E3
3221 B3	7203 E3
3222 B3	7205 F2
3223 B3	7206 F2
3224 B5	7207 F2
3225 B6	7209 B10
3226 B8	7210 B11
3227 B9	7211 B10
3228 B10	7212 C11
3229 C6	7214 E7
3230 C7	7215 E7
3231 C3	7216 F7
3232 C5	7217 G7
3233 C6	7218 G8
3235 C3	
3236 C3	
3237 C7	
3239 C5	
3240 D5	
3241 D6	
3242 D10	
3243 D10	
3244 D6	
3245 D9	
3246 D8	
3247 D5	
3248 D5	
3250 E8	
3251 E6	
3253 F8	
3254 E5	
3255 E4	
3256 E4	
3257 E3	
3263 E5	
3269 E10	
3284 F3	
3285 G3	
3286 E12	
3287 G4	
3288 G8	

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FRONT 1/2

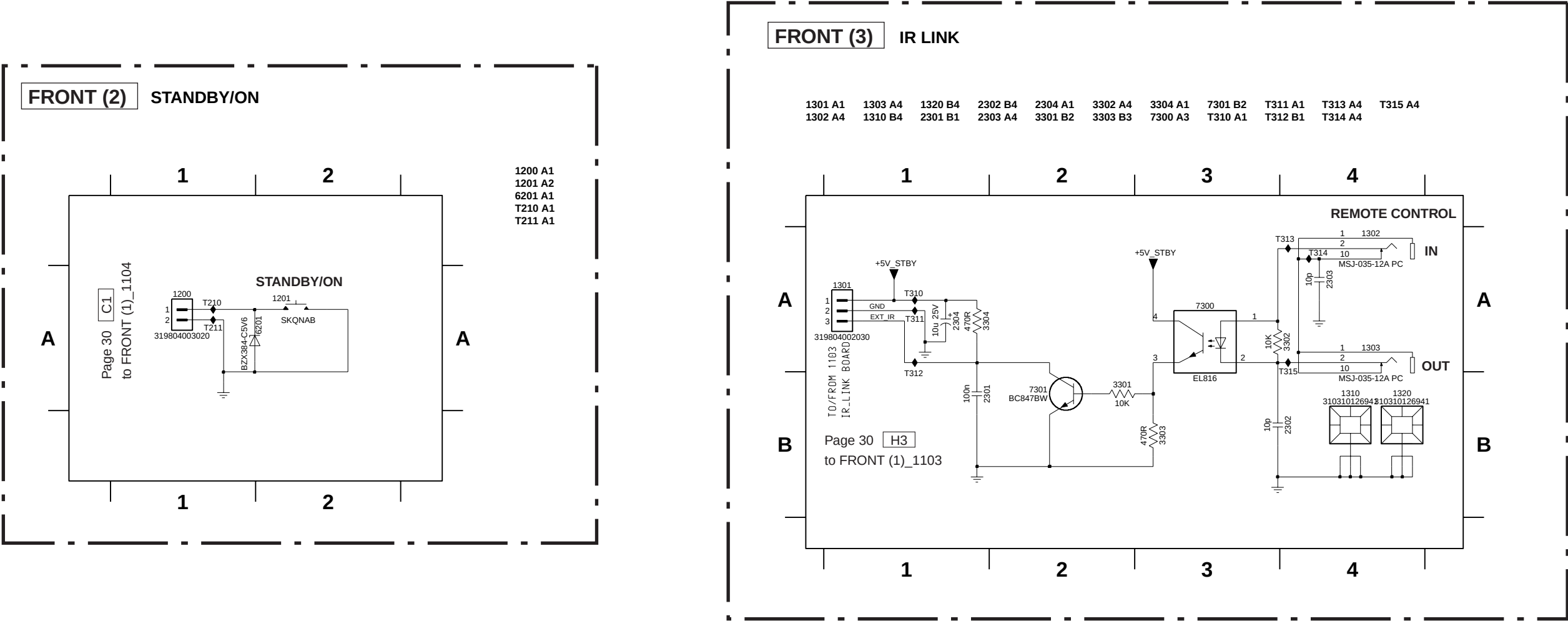


- 1100 A6
- 1101 D1
- 1102 E1
- 1103 H3
- 1104 C1
- 1105 G5
- 1106 G6
- 1107 G7
- 1108 H5
- 2100 G2
- 2101 G3
- 2102 C10
- 2103 C11
- 2104 C10
- 2105 H1
- 2106 H2
- 2107 I2
- 2109 C9
- 2110 I9
- 2111 G10
- 2112 G10
- 2113 H11
- 2114 H10
- 2115 H3
- 2116 C2
- 2118 E2
- 2119 C9
- 3101 G1
- 3102 H5
- 3103 H6
- 3104 H7
- 3105 I2
- 3106 E7
- 3107 C6
- 3108 C9
- 3109 D8
- 3110 E5
- 3111 E5
- 3112 E6
- 3113 E5
- 3114 E5
- 3115 E5
- 3116 D10
- 3117 E7
- 3118 H10
- 3119 H11
- 3120 H11
- 3121 H9
- 3122 H9
- 3123 I11
- 3124 A9
- 3125 A9
- 3126 A9
- 3127 A9
- 3128 A9
- 3129 B9
- 3130 B9
- 3131 B9
- 3132 B9
- 3133 B9
- 3134 B9
- 3135 B9
- 3136 B9
- 3137 B9
- 3138 B9
- 3139 B9
- 3140 B9
- 3141 B9
- 3142 B9
- 3143 C9
- 3144 C9
- 3145 C9
- 3146 E8
- 3147 E8
- 3148 E8
- 3149 F8
- 3150 F2
- 3151 I3
- 3152 C6
- 3153 C9
- 5100 C9
- 6100 F2
- 6101 I2
- 6102 C10
- 6106 G8
- 6107 H8
- 6108 H5
- 6109 H6
- 6110 H7
- 6112 H7
- 6114 G3
- 6121 F7
- 6122 F7
- 7100 C8
- 7102 H1
- 7103 H10
- 7104 I10
- 7105 I11
- 7106-1 H4
- 7106-2 I4
- 7106-3 I5
- 7106-4 I5
- T100 D2
- T101 D2
- T102 D2
- T103 D2
- T105 E2
- T106 E2
- T107 E2
- T108 F2
- T109 F2
- T110 F2
- T111 F2
- T112 F2
- T115 H3
- T116 H3
- T117 H3
- T118 H9
- T119 H9
- T120 H10

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● 本回路図は標準回路図です。改良のため予告なく変更することがございます。

FRONT 2/2

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

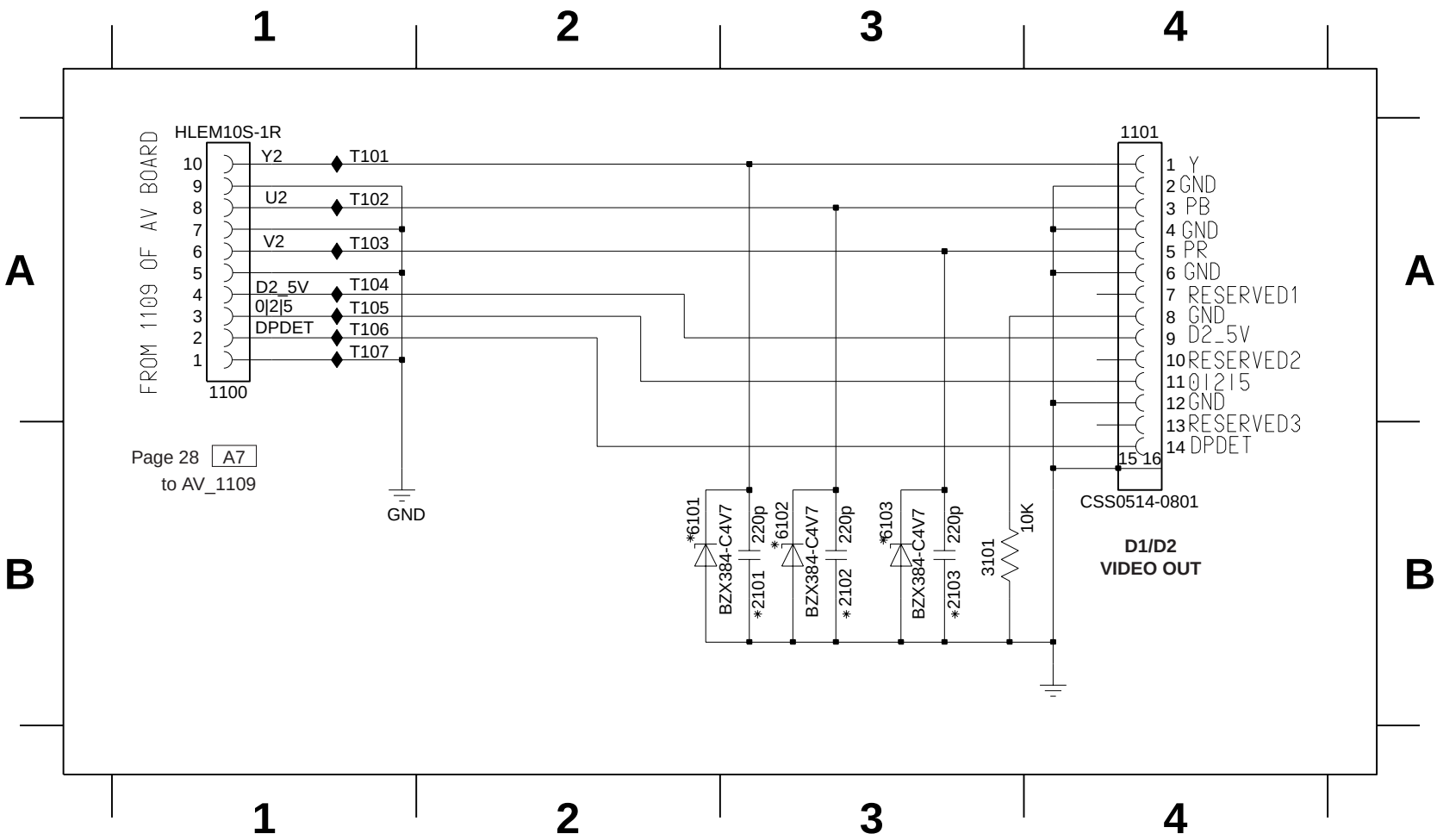


D2 (J model)

The first digit of a component indicates the component type.

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

1100 A1	2101 B3	2103 B3	6101 B2	6103 B3	T102 A1	T104 A1	T106 A1
1101 A4	2102 B3	3101 B3	6102 B3	T101 A1	T103 A1	T105 A1	T107 A1



★ 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.

● 印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。

● 本回路図は標準回路図です。改良のため予告なく変更することがございます。

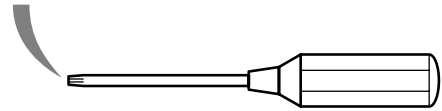
REPLACEMENT PARTS LIST

OVERALL ASS'Y

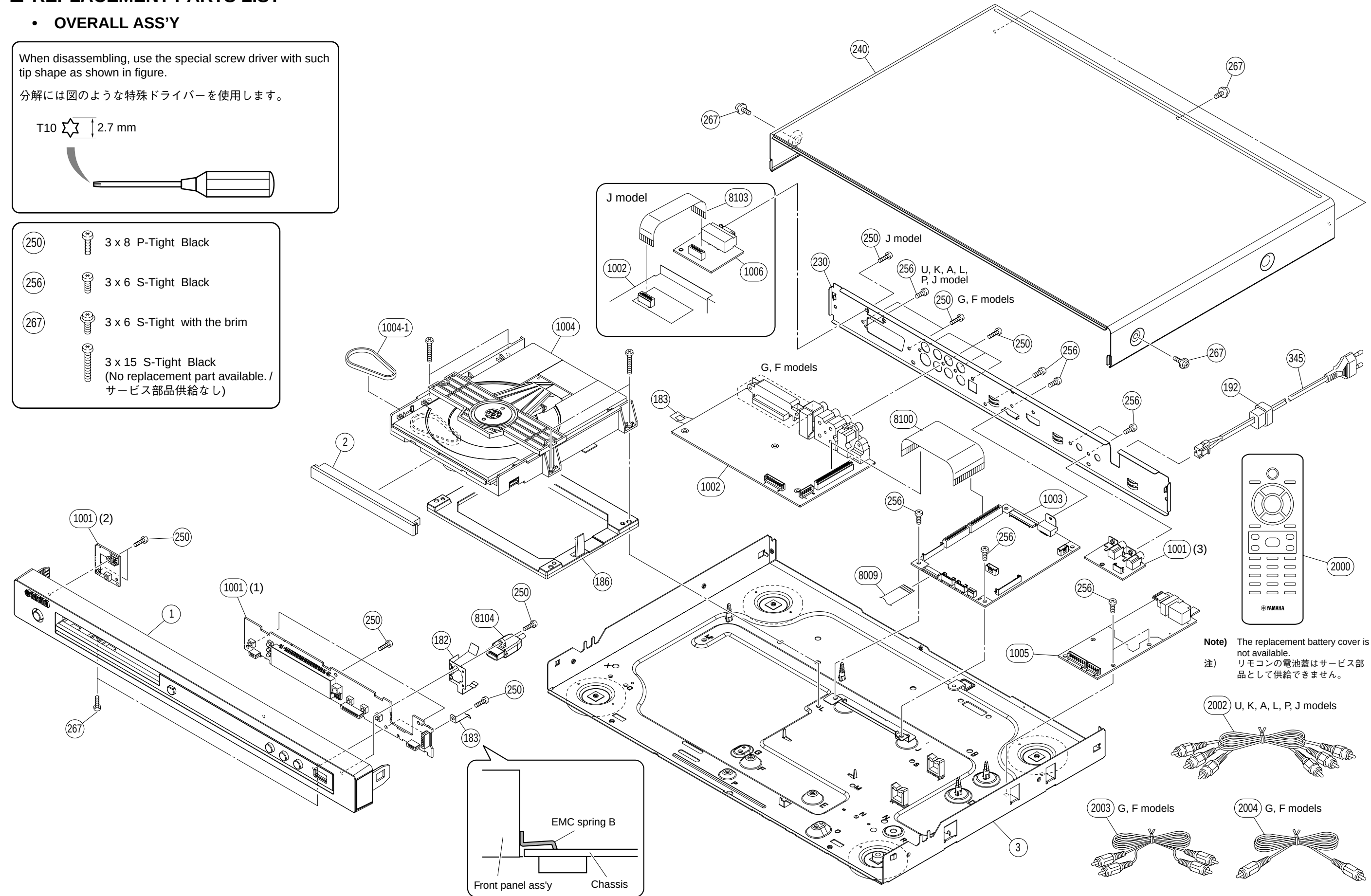
When disassembling, use the special screw driver with such tip shape as shown in figure.

分解には図のような特殊ドライバーを使用します。

T10 2.7 mm

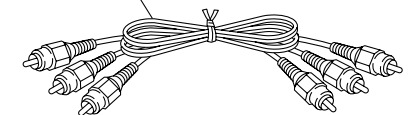


- (250) 3 x 8 P-Tight Black
- (256) 3 x 6 S-Tight Black
- (267) 3 x 6 S-Tight with the brim
- 3 x 15 S-Tight Black (No replacement part available. / サービス部品供給なし)

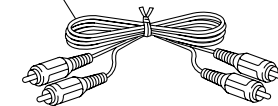


Note) The replacement battery cover is not available.
注) リモコンの電池蓋はサービス部品として供給できません。

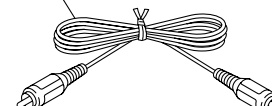
2002 U, K, A, L, P, J models



2003 G, F models



2004 G, F models



■ WARNING

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

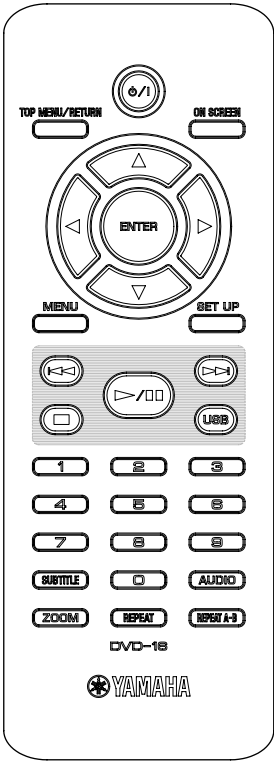
Ref No.	Part No.	Description	Remarks	Markets	部 品 名	ランク
* 1	AAX90480	FRONT PANEL ASS'Y	GD	3141 079 45891		フロントパネルASSY
* 1	AAX90450	FRONT PANEL ASS'Y	663BL	3141 079 45861		フロントパネルASSY
* 1	AAX90490	FRONT PANEL ASS'Y	6165BL	3141 079 45901		フロントパネルASSY
* 1	AAX90470	FRONT PANEL ASS'Y	TI	3141 079 45881		フロントパネルASSY
* 1	AAX90460	FRONT PANEL ASS'Y	SI	3141 079 45871		フロントパネルASSY
2	AAX77810	TRAY COVER ASS'Y		3141 079 37091		トレイカバーASSY
* 3	AAX90430	FRAME ASS'Y		3141 079 45911	J	フレームASSY
* 3	AAX90440	FRAME ASS'Y		3141 079 45921	UKAGFLP	フレームASSY
* 182	AAX90410	SPRING EMC USB		3139 241 28121		スプリングEMC USB
* 183	AAX90400	SPRING EMC B		3139 241 00043		スプリングEMC B
186	AAX77860	BRACKET		3139 244 10241		ブラケット
192	AAX53540	BUSHING		3139 114 26671		ブッシュ
* 230	AAX90510	REAR PANEL		3139 241 28041	J	リアパネル
* 230	AAX90570	REAR PANEL	663	3139 241 28101	U	リアパネル
* 230	AAX90500	REAR PANEL	6165	3139 241 28031	U	リアパネル
* 230	AAX90530	REAR PANEL		3139 241 28061	K	リアパネル
* 230	AAX90550	REAR PANEL		3139 241 28081	A	リアパネル
* 230	AAX90580	REAR PANEL		3139 241 28111	G	リアパネル
* 230	AAX90560	REAR PANEL		3139 241 28091	F	リアパネル
* 230	AAX90540	REAR PANEL		3139 241 28071	L	リアパネル
* 230	AAX90520	REAR PANEL		3139 241 28051	P	リアパネル
240	AAX90420	TOP COVER	GD	3139 241 27971		トップカバー
240	AAX58270	TOP COVER	BL	3139 247 59051		トップカバー
240	AAX58291	TOP COVER	TI	3139 241 22192		トップカバー
240	AAX88000	TOP COVER	SI	3139 241 27262		トップカバー
250	AAX53520	PAN HEAD TORX P-TIGHT SCREW	3x8 MFZN2BL	2511 076 50012		ナベトルクスPタイトネジ
256	AAX23640	PAN HEAD TORX S-TIGHT SCREW	3x6 MFZN2BL	2511 077 00039		ナベトルクスSタイトネジ
267	AAX57730	PW HEAD TORX S-TIGHT SCREW	GD 3x6 MFN133	3103 301 45951		PWヘッドSタイトネジ
267	AAX55450	PW HEAD TORX S-TIGHT SCREW	BL 3x6 MFZN2BL	3139 110 40611		PWヘッドSタイトネジ
267	AAX53440	PW HEAD TORX S-TIGHT SCREW	TI, SI 3x6 MFN133	3104 120 40081		PWヘッドSタイトネジ
△ 345	AAX53650	POWER CABLE	1.8m	2422 070 98255	J	電源コード
△ 345	AAX47750	POWER CABLE	1.8m	2422 070 98235	UA	電源コード
△ 345	AAX59130	POWER CABLE	1.8m	2422 070 98222	K	電源コード
△ 345	AAX53630	POWER CABLE	1.8m	2422 070 98231	GFL	電源コード
△ 345	AAX82310	POWER CABLE	1.8m	2422 070 00026	P	電源コード
* 1001	AAX90350	P.C.B. ASS'Y	FRONT	3139 248 54251		PCB FRONT
* 1002	AAX90330	P.C.B. ASS'Y	AV	3139 248 54331	J	PCB AV
* 1002	AAX90310	P.C.B. ASS'Y	AV	3139 248 54201	UKALP	PCB AV
* 1002	AAX90320	P.C.B. ASS'Y	AV	3139 248 54211	GF	PCB AV
* 1003	AAX90370	P.C.B. ASS'Y	MPEG SD10.1 AP	3139 248 54501	JKL	PCB MPEG
* 1003	AAX90360	P.C.B. ASS'Y	MPEG SD10.1	3139 248 54271	UAGFP	PCB MPEG
* 1004	AAX90590	LOADER ASS'Y	WXD-8829C	3139 247 14231		ローダーASSY
1004-1	AAX90090	BELT LOADING				ローディングベルト
△ 1005	AAX79050	POWER SUPPLY UNIT	SRV1919WW	3139 247 13351		電源ユニット
* 1006	AAX90340	P.C.B. ASS'Y	D2	3139 248 54261	J	PCB D2
8009	AAX53460	FLEXIBLE FLAT CABLE	24P 280mm P=0.5	3139 241 00391		カード電線
8100	AAX77800	FLEXIBLE FLAT CABLE	30P 60mm P=1.25	3139 241 02491		カード電線
* 8103	AAX90380	FLEXIBLE FLAT CABLE	10P 80mm P=1.25	3139 241 03391	J	カード電線
8104	AAX89290	USB CABLE ASS'Y	USB 5P 300mm	2422 076 00786		USBケーブルASSY
		ACCESSORIES				付属品
* 2000	AAX83650	REMOTE CONTROL	DVD-16	2422 549 01589		リモコン
2002	AAX90600	AUDIO/VIDEO CABLE	YE/RD/WH 1.5m 1pc	2422 076 00718	JUKALP	音声/映像ピンケーブル
2003	AAX21980	AUDIO PIN CABLE	RE/WH 1.5m 1pc	3103 308 92611	GF	ステレオピンケーブル
2004	AAX22970	VIDEO PIN CABLE	YE 1.5m 1pc	3104 108 45432	GF	ビデオ用ピンケーブル
		BATTERY	R03, AAA, UM-4 2pcs			単4乾電池

* New Parts * 新規部品

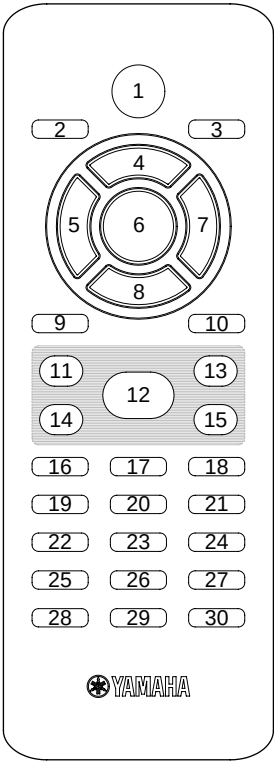
REMOTE CONTROL

PANEL

DVD-16



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

DVD-S663/DV-S6165

