DENON

Ver. 3

Please refer to the MODIFICATION NOTICE.

SERVICE MANUAL

MODEL	JP	E3	E2	EK	E2A	E1C	EA
AVR-1909		✓	✓				
AVR-789		✓					✓
AVC-1909	✓						

AV SURROUND RECEIVER

注　意

サービスをおこなう前に、このサービスマニュアルを必ずお読みください。本機は、火災、感電、けがなどに対する安全性を確保するために、さまざまな配慮をおこなっており、また法的には「電気用品安全法」にもとづき、所定の許可を得て製造されております。
従ってサービスをおこなう際は、これらの安全性が維持されるよう、このサービスマニュアルに記載されている注意事項を必ずお守りください。

- **For purposes of improvement, specifications and design are subject to change without notice.**
- 本機の仕様は性能改良のため、予告なく変更することがあります。
- 補修用性能部品の保有期間は、製造打切後 8 年です。

- **Please use this service manual with referring to the operating instructions without fail.**
- 修理の際は、必ず取扱説明書を参照の上、作業を行ってください。

- **Some illustrations using in this service manual are slightly different from the actual set.**
- 本文中に使用しているイラストは、説明の都合上現物と多少異なる場合があります。

DENON

Denon Brand Company, D&M Holdings Inc.

X0383 V.03 DE/CDM 0812

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

CAUTION **Please heed the points listed below during servicing and inspection.**

◎ Heed the cautions!

Spots requiring particular attention when servicing, such as the cabinet, parts, chassis, etc., have cautions indicated on labels or seals. Be sure to heed these cautions and the cautions indicated in the handling instructions.

◎ Caution concerning electric shock!

(1) An AC voltage is impressed on this set, so touching internal metal parts when the set is energized could cause electric shock. Take care to avoid electric shock, by for example using an isolating transformer and gloves when servicing while the set is energized, unplugging the power cord when replacing parts, etc.

(2) There are high voltage parts inside. Handle with extra care when the set is energized.

◎ Caution concerning disassembly and assembly!

Though great care is taken when manufacturing parts from sheet metal, there may in some rare cases be burrs on the edges of parts which could cause injury if fingers are moved across them. Use gloves to protect your hands.

◎ Only use designated parts!

The set's parts have specific safety properties (fire resistance, voltage resistance, etc.). For replacement parts, be sure to use parts which have the same properties. In particular, for the important safety parts that are marked ⚠ on wiring diagrams and parts lists, be sure to use the designated parts.

◎ Be sure to mount parts and arrange the wires as they were originally!

For safety reasons, some parts use tape, tubes or other insulating materials, and some parts are mounted away from the surface of printed circuit boards. Care is also taken with the positions of the wires inside and clamps are used to keep wires away from heating and high voltage parts, so be sure to set everything back as it was originally.

◎ Inspect for safety after servicing!

Check that all screws, parts and wires removed or disconnected for servicing have been put back in their original positions, inspect that no parts around the area that has been serviced have been negatively affected, conduct an insulation check on the external metal connectors and between the blades of the power plug, and otherwise check that safety is ensured.

(Insulation check procedure)
Unplug the power cord from the power outlet, disconnect the antenna, plugs, etc., and turn the power switch on. Using a 500V insulation resistance tester, check that the insulation resistance between the terminals of the power plug and the externally exposed metal parts (antenna terminal, headphones terminal, microphone terminal, input terminal, etc.) is 1MΩ or greater. If it is less, the set must be inspected and repaired.

CAUTION **Concerning important safety parts**

Many of the electric and structural parts used in the set have special safety properties. In most cases these properties are difficult to distinguish by sight, and using replacement parts with higher ratings (rated power and withstand voltage) does not necessarily guarantee that safety performance will be preserved. Parts with safety properties are indicated as shown below on the wiring diagrams and parts lists is this service manual. Be sure to replace them with parts with the designated part number.

(1) Schematic diagrams ... Indicated by the ⚠ mark.

(2) Parts lists ... Indicated by the ⚠ mark.

Using parts other than the designated parts could result in electric shock, fires or other dangerous situations.

注　意　サービス、点検時にはつぎのことにご注意願います。

◎注意事項をお守りください！

サービスのとき特に注意を必要とする個所についてはキャビネット、部品、シャーシなどにラベルや捺印で注意事項を表示しています。これらの注意書きおよび取扱説明書などの注意事項を必ずお守りください。

◎感電に注意！

(1) このセットは、交流電圧が印加されていますので通電時に内部金属部に触れると感電することがあります。従って通電サービス時には、絶縁トランスの使用や手袋の着用、部品交換には、電源プラグを抜くなどして感電にご注意ください。

(2) 内部には高電圧の部分がありますので、通電時の取扱には十分ご注意ください。

◎分解、組み立て作業時のご注意！

板金部品の端面の『バリ』は、部品製造時に充分管理をしておりますが、板金端面は鋭利となっている箇所が有りますので、部品端面に触れたまま指を動かすとまれに怪我をする場合がありますので十分注意して作業して下さい。手の保護のために手袋を着用してください。

◎指定部品の使用！

セットの部品は難燃性や耐電圧など安全上の特性を持ったものとなっています。従って交換部品は、使用されていたものと同じ特性の部品を使用してください。特に配線図、部品表に ⚠ 印で指定されている安全上重要な部品は必ず指定のものをご使用ください。

◎部品の取付けや配線の引きまわしは、元どおりに！

安全上、テープやチューブなどの絶縁材料を使用したり、プリント基板から浮かして取付けた部品があります。また内部配線は引きまわしやクランパーによって発熱部品や高圧部品に接近しないように配慮されていますので、これらは必ず元どおりにしてください。

◎サービス後は安全点検を！

サービスのために取り外したねじ、部品、配線などが元どおりになっているか、またサービスした個所の周辺を劣化させてしまったところがないかなどを点検し、外部金属端子部と、電源プラグの刃の間の絶縁チェックをおこなうなど、安全性が確保されていることを確認してください。

（絶縁チェックの方法）
電源コンセントから電源プラグを抜き、アンテナやプラグなどを外し、電源スイッチを入れます。500V 絶縁抵抗計を用いて、電源プラグのそれぞれの端子と外部露出金属部［アンテナ端子、ヘッドホン端子、マイク端子、入力端子など］との間で、絶縁抵抗値が 1 MΩ 以上であることを確認してください。この値以下のときはセットの点検修理が必要です。

注　意　安全上重要な部品について

本機に使用している多くの電気部品、および機構部品は安全上、特別な特性を持っています。この特性はほとんどの場合、外観では判別つきにくく、またもとの部品より高い定格（定格電力、耐圧）を持ったものを使用しても安全性が維持されるとは、限りません。安全上の特性を持った部品は、このサービスマニュアルの配線図、部品表につぎのように表示していますので必ず指定されている部品番号のものを使用願います。

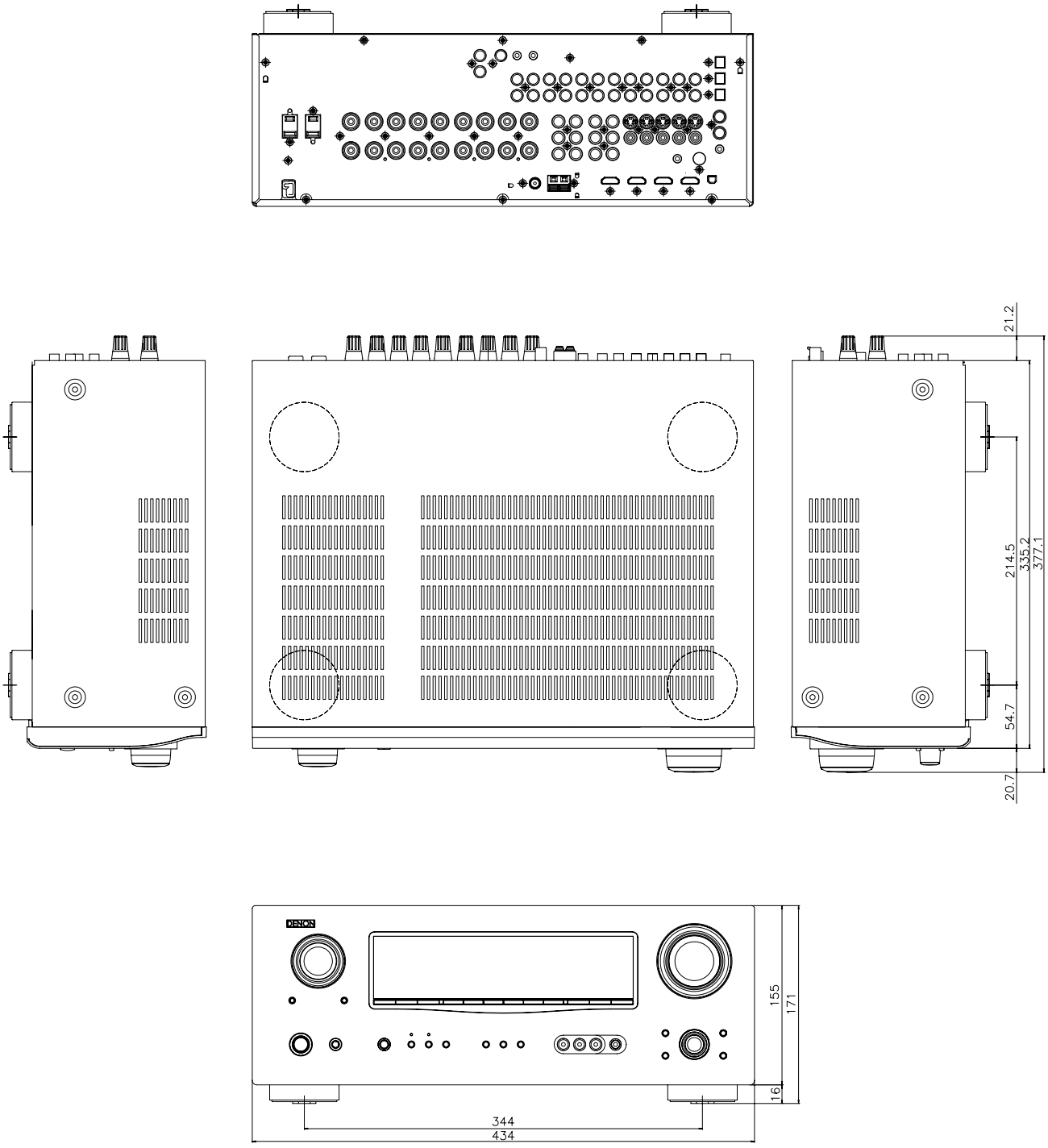
(1) 配線図… ⚠ マークで表示しています。

(2) 部品表… ⚠ マークで表示しています。

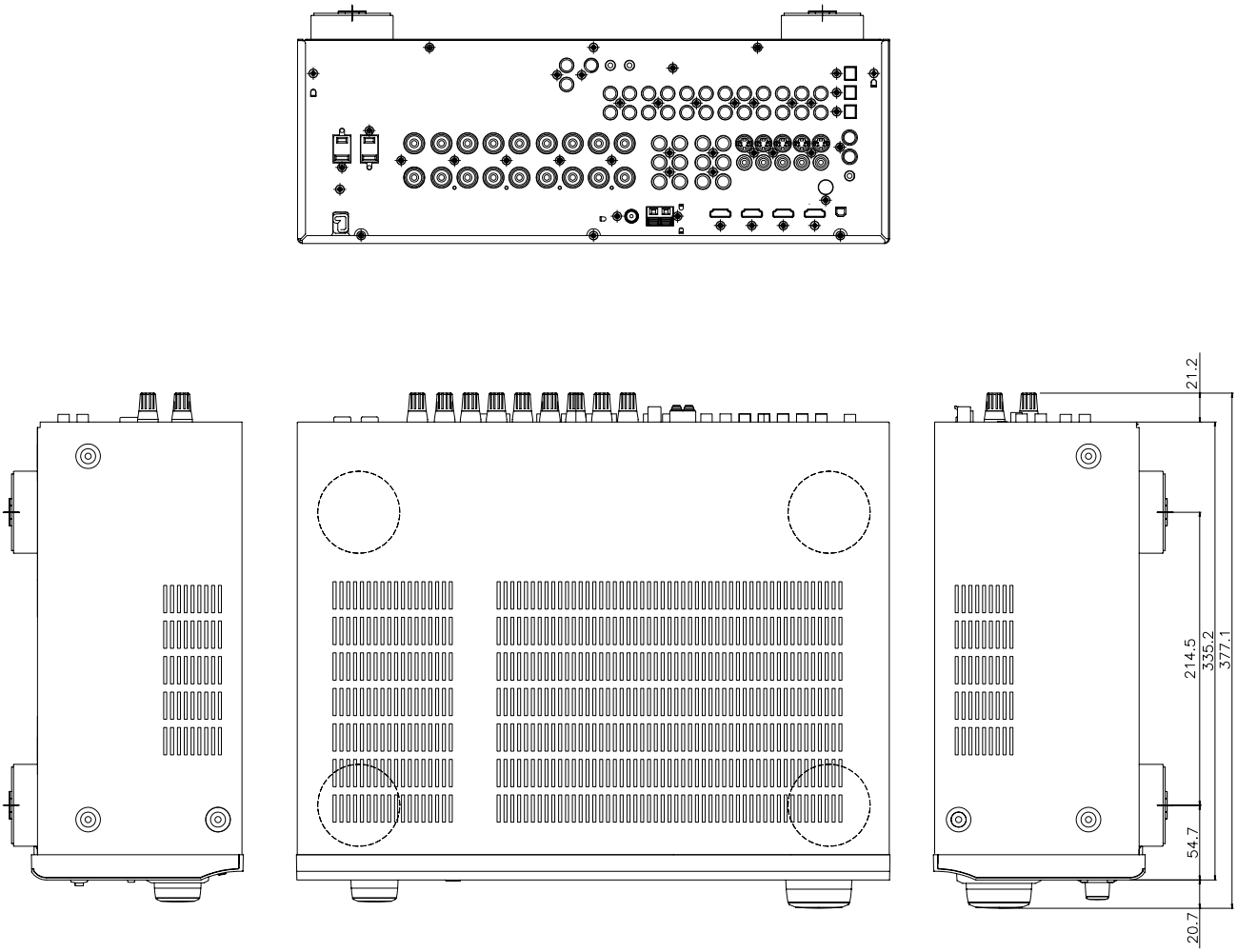
指定された部品と異なるものを使用した場合には、感電、火災などの危険を生じる恐れがあります。

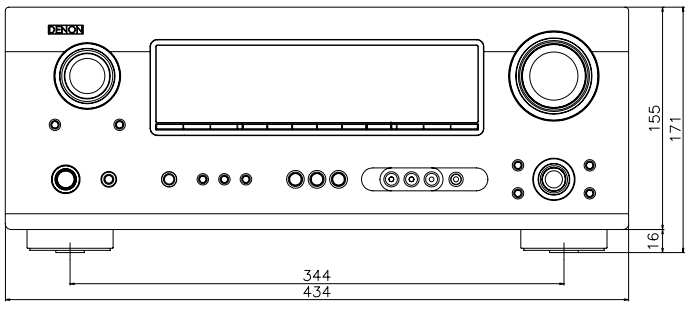
DIMENSION

AVR-1909 model



AVR-789 model





WIRE ARRANGEMENT

If wire bundles are untied or moved to perform adjustment or parts replacement etc., be sure to rearrange them neatly as they were originally bundled or placed afterward. Otherwise, incorrect arrangement can be a cause of noise generation.

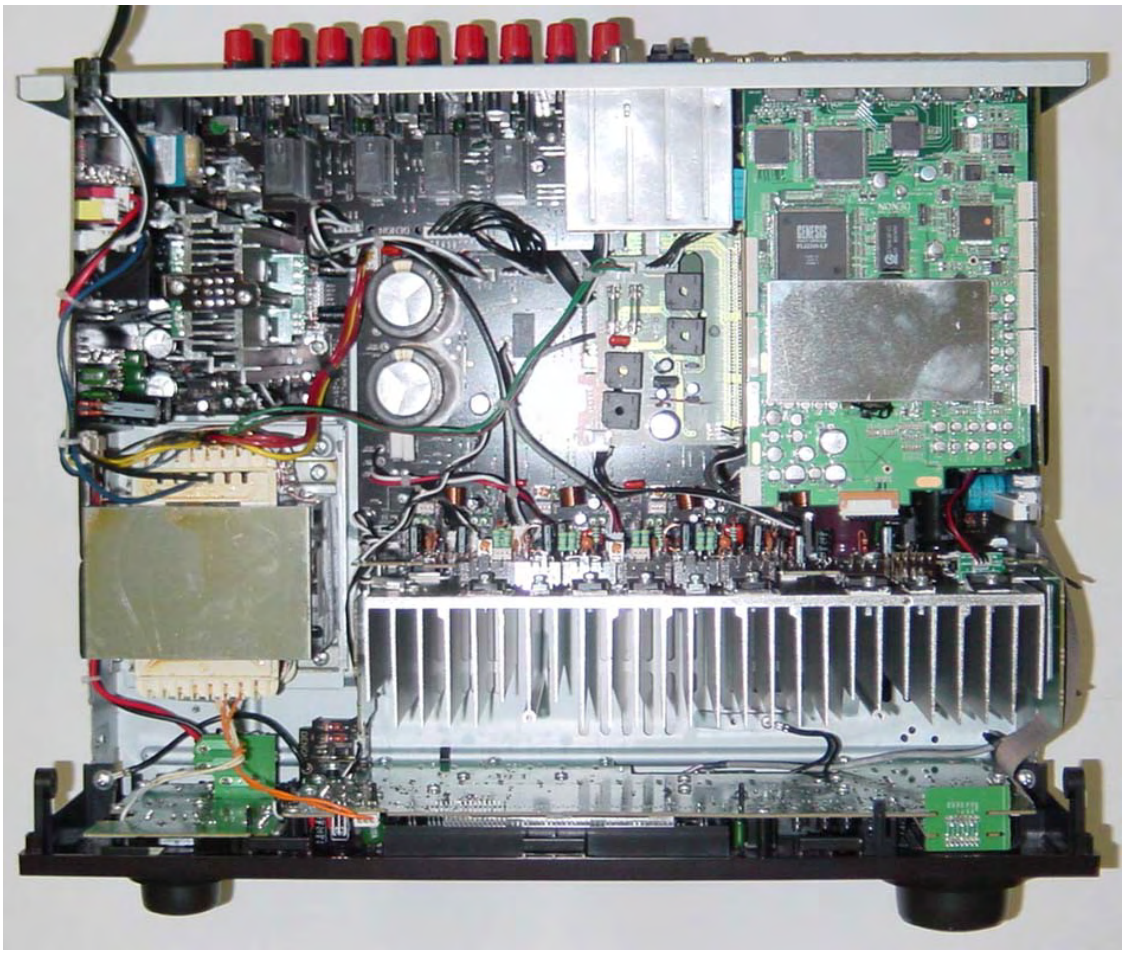
ワイヤー整形図

調整や部品の交換等により、ワイヤー類の結束をはずしたり移動させた場合には、それらの作業が完了した時点でワイヤーの整形をおこなってください。正しく整形されていないとノイズ発生の原因となることがあります。

Wire arrangement viewed from the top

上面からみたワイヤー整形

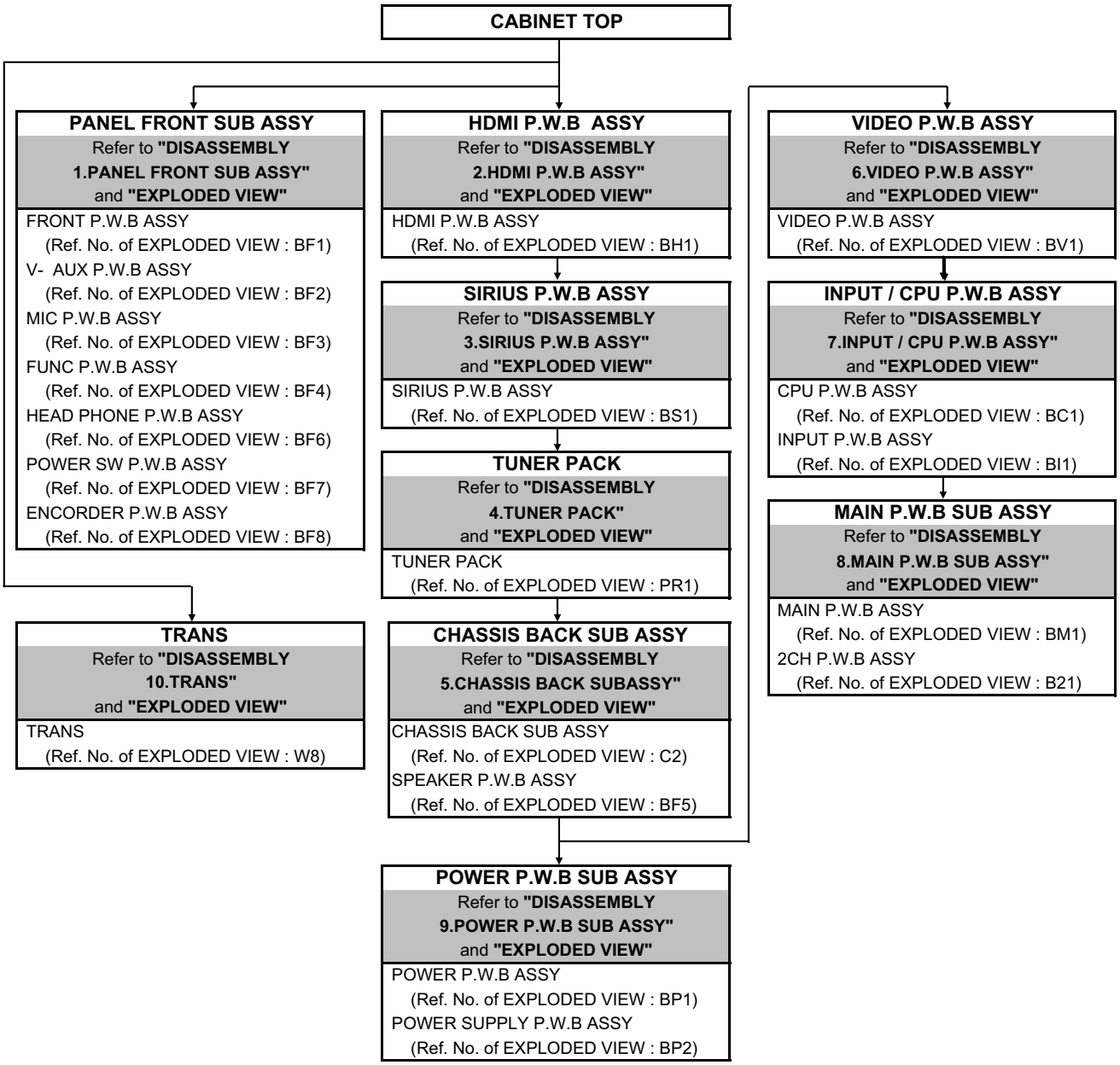
Back Panel side



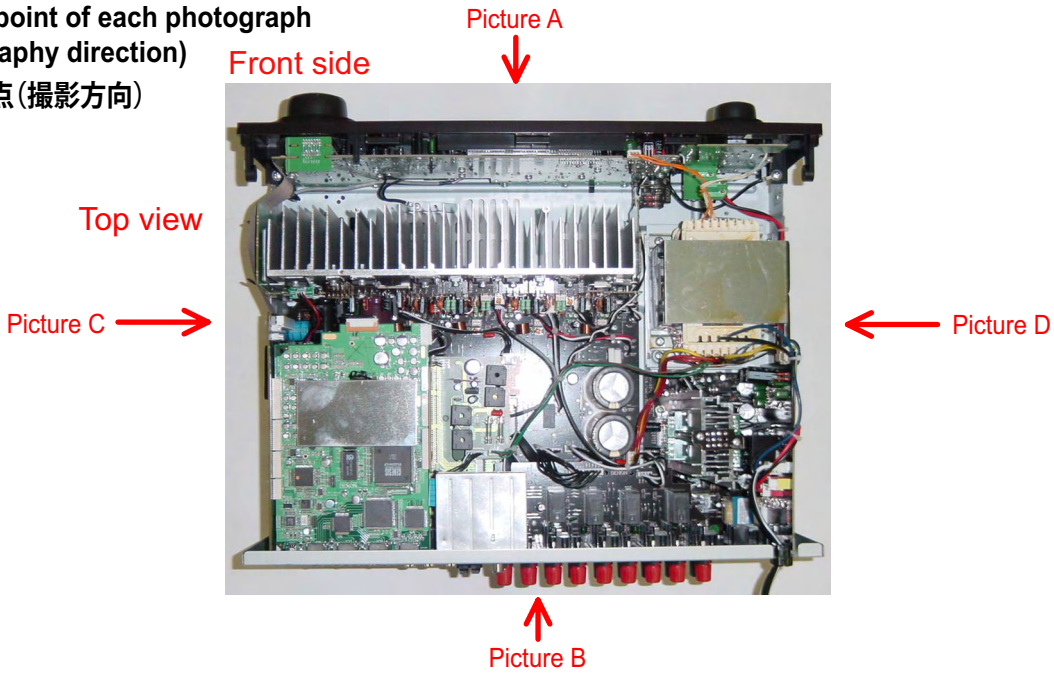
Front Panel side

DISASSEMBLY

- Disassemble in order of the arrow of the figure of following flow.
  下記フロー図の矢印の順番にはずしてください。
- In the case of the re-assembling, assemble it in order of the reverse of the following flow.
  再組み立ての場合は、下記のフローの逆の順番に組立ててください
- In the case of the re-assembling, observe "attention of assembling" it.
  再組み立ての場合は、「組立のご注意」を遵守してください。



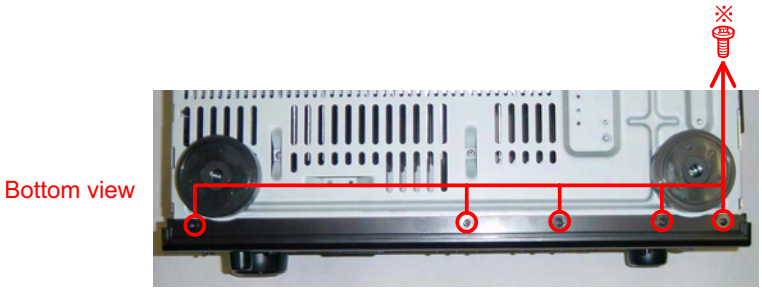
The viewpoint of each photograph
(photography direction)
各図の視点(撮影方向)



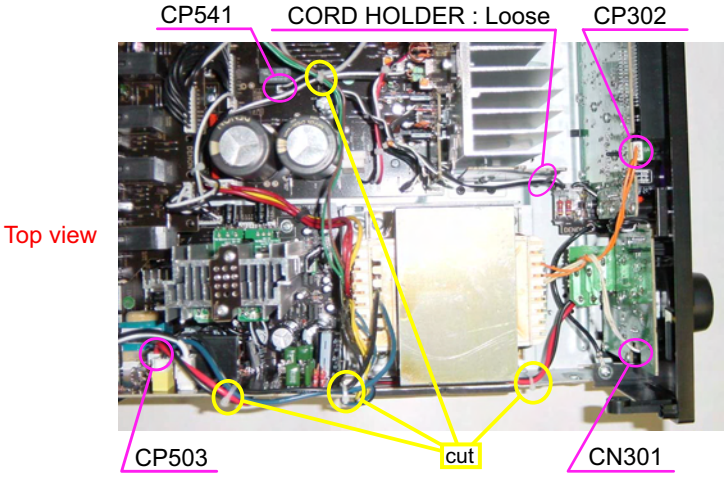
1. PANEL FRONT SUB ASSY

proceeding (手順) : CABINET TOP → PANEL FRONT SUB ASSY

(1) Remove the screws.（ねじをはずす。）

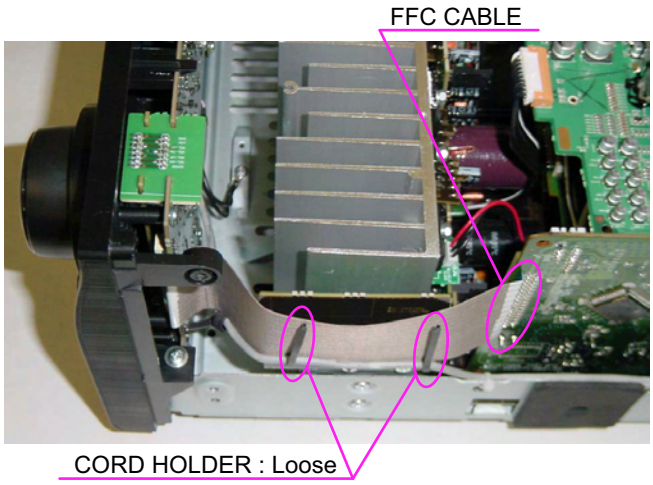


(2) Disconnect the connector wires.（コネクタワイヤーをはずす。）



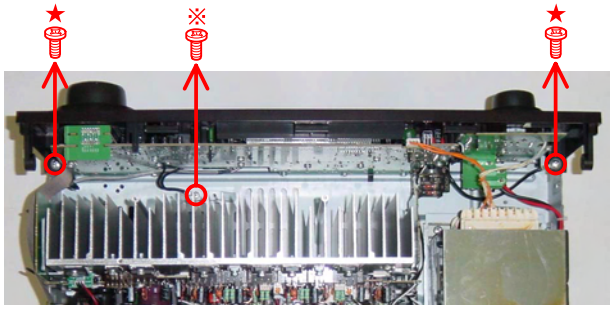
(3) Disconnect the FFC cable.（FFC ケーブルをはずす。）

Picture C



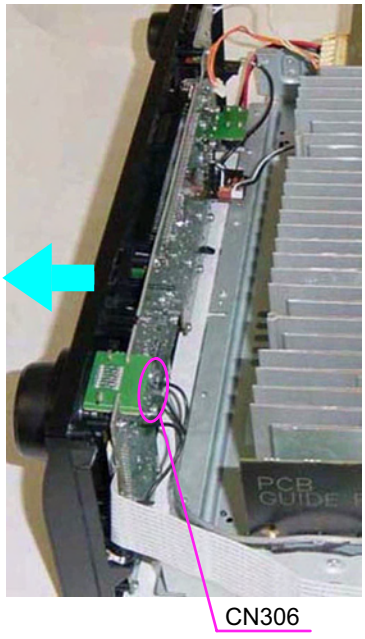
(4) Remove the screw.（ねじをはずす。）

Top view



(5) Disconnect the connector wire.（コネクタワイヤーをはずす。）

Picture C



Please refer to **"EXPLODED VIEW "** for the disassembly method of each P.W.B included in PANEL FRONT SUB ASSY .
PANEL FRONT SUB ASSY の各基板のはずしかたは **"EXPLODED VIEW "** を参照してください。

2. HDMI P.W.B.ASSY

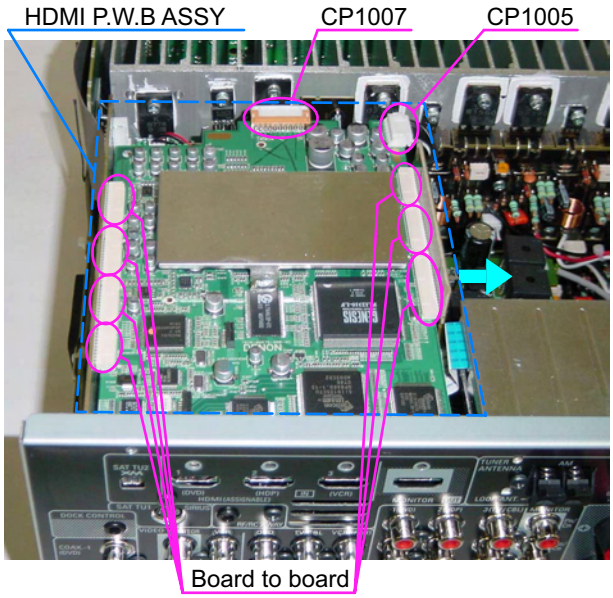
proceeding (手順) : CABINET TOP → HDMI P.W.B ASSY

(1) Remove the screws.（ねじをはずす。）

Picture B

(2) Disconnect the connector wires and boards.（コネクタワイヤーとコネクタボードをはずす。）

Picture B



3. SIRIUS P.W.B ASSY

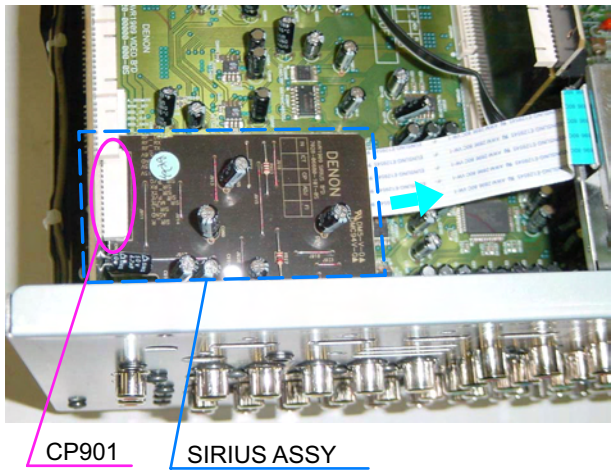
proceeding (手順) : CABINET TOP → HDMI P.W.B ASSY → SIRIUS P.W.B ASSY

(1) Remove the screw.（ねじをはずす。）

Picture B

(2) Disconnect the connector wire.（コネクタワイヤーをはずす。）

Top view

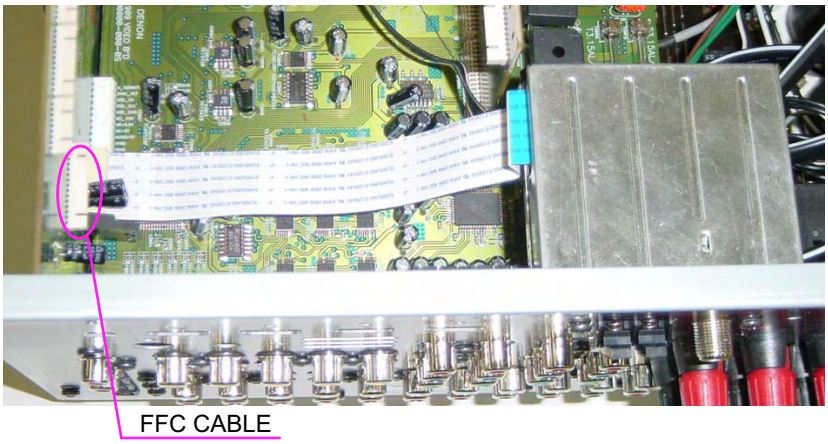


4. TUNER PACK

proceeding (手順) : **CABINET TOP** → **HDMI P.W.B ASSY** → **SIRIUS P.W.B ASSY** → **TUNER PACK**

(1) Disconnect the FFC cable.（FFC ケーブルをはずす。）

Top view



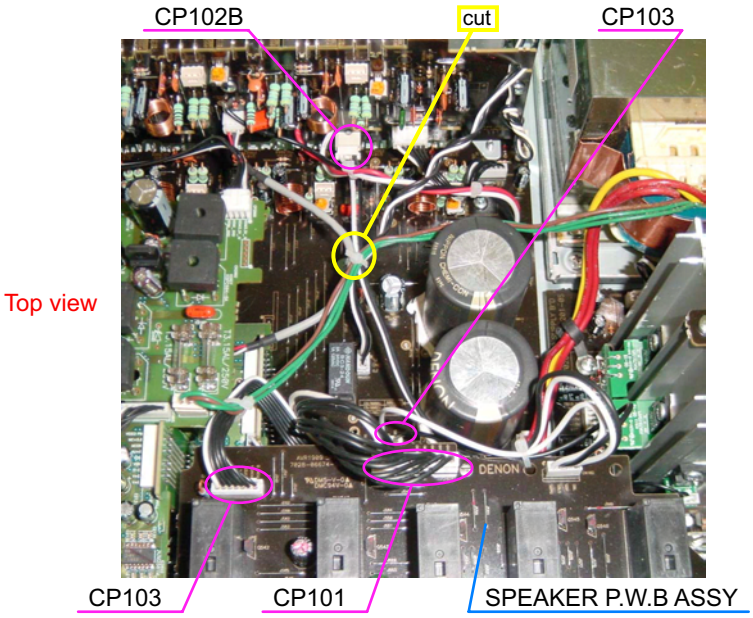
(2) Remove the screws.（ねじをはずす。）

Picture B

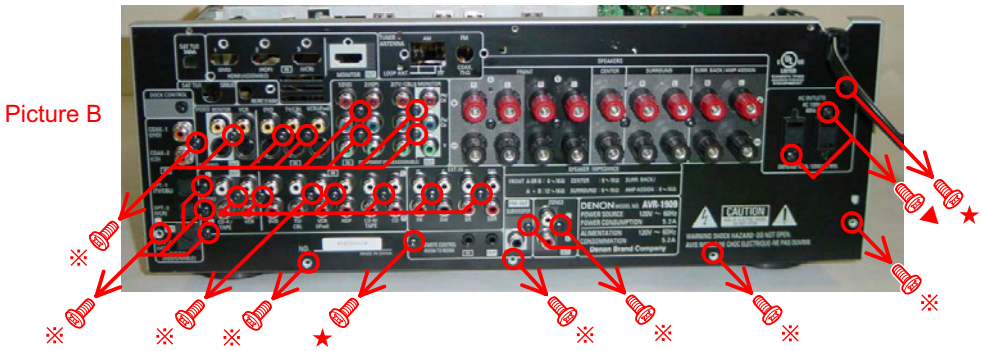
5. CHASSIS BACK SUB ASSY

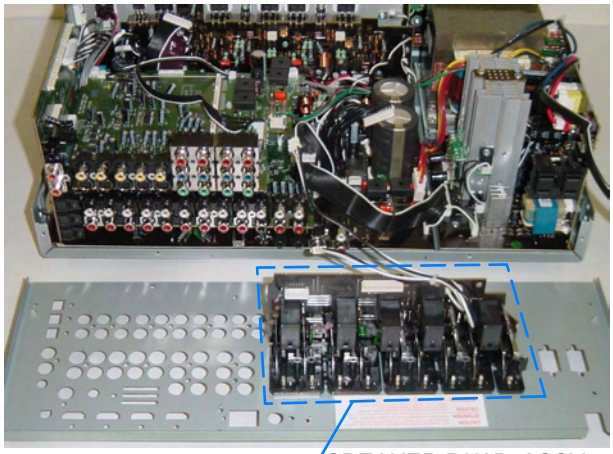
proceeding (手順) : CABINET TOP → HDMI P.W.B ASSY → SIRIUS P.W.B ASSY → TUNER PACK → CHASSIS BACK SUB ASSY

(1) Disconnect the connector wires. （コネクタワイヤーをはずす。）



(2) Remove the screws.（ねじをはずす。）





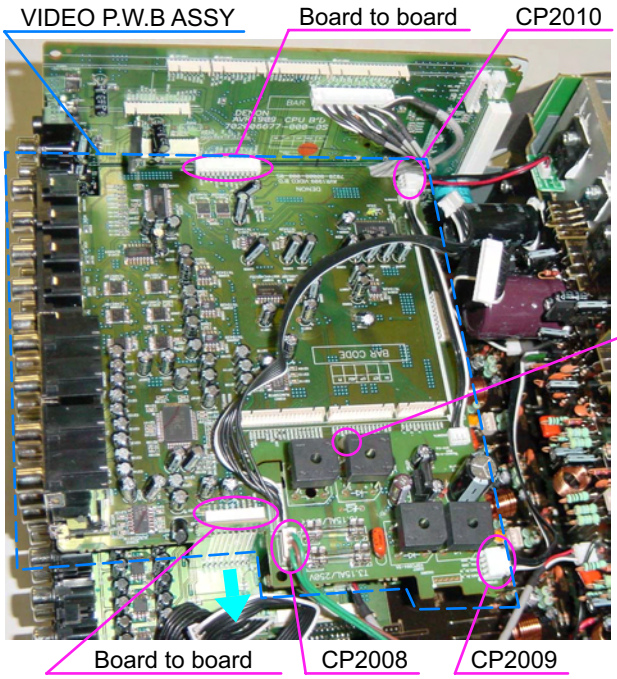
Please refer to **"EXPLODED VIEW "** for the disassembly method of each P.W.B included in CHASSIS BACK SUB ASSY .
CHASSIS BACK SUB ASSY の各基板のはずしかたは **"EXPLODED VIEW "** を参照してください。

6. VIDEO P.W.B ASSY

proceeding (手順) : CABINET TOP → HDMI P.W.B ASSY → SIRIUS P.W.B ASSY → TUNER PACK → CHASSIS BACK SUB ASSY → **VIDEO P.W.B ASSY**

(1) Disconnect the connector wires and boards.（コネクタワイヤーとコネクタボードをはずす。）

Picture D

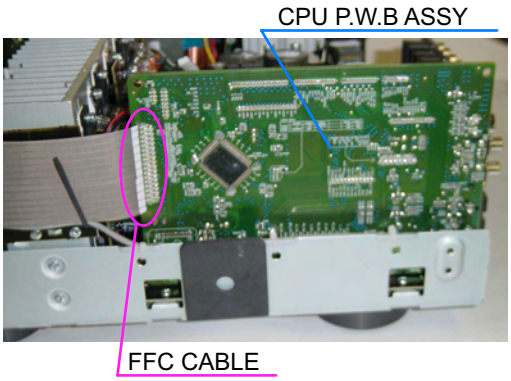


7. INPUT / CPU P.W.B ASSY

proceeding (手順) : CABINET TOP → HDMI P.W.B ASSY → SIRIUS P.W.B ASSY → TUNER PACK → CHASSIS BACK SUB ASSY → VIDEO P.W.B ASSY → **INPUT / CPU P.W.B ASSY**

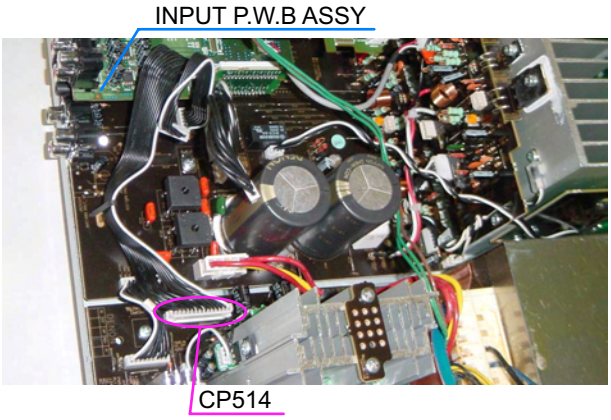
(1) Disconnect the FFC cable.（FFC ケーブルをはずす。）

Picture C

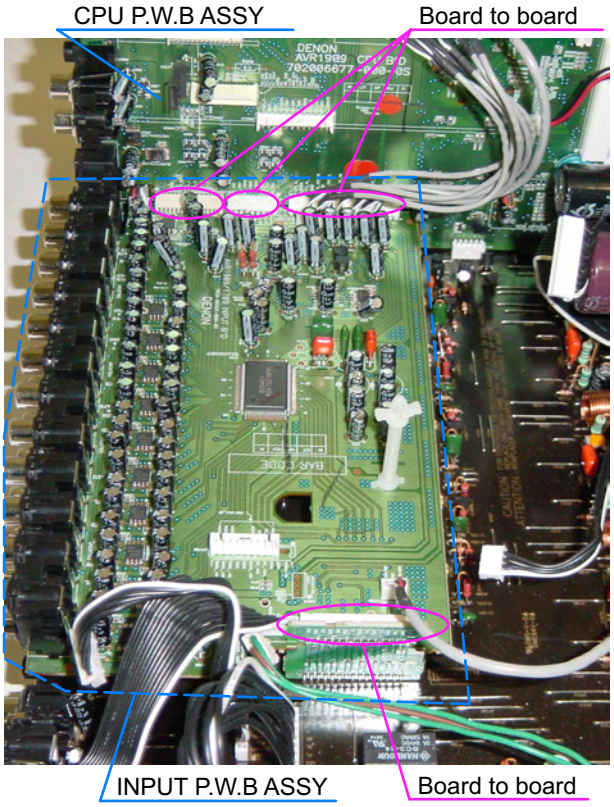


(2) Disconnect the connector wires and boards.（コネクタワイヤーとコネクタボードをはずす。）

Picture D



Picture D



8. MAIN P.W.B SUB ASSY

proceeding (手順) : **CABINET TOP** → **HDMI P.W.B ASSY** → **SIRIUS P.W.B ASSY**
→ **TUNER PACK** → **CHASSIS BACK SUB ASSY**
→ **VIDEO P.W.B ASSY** → **INPUT / CPU P.W.B ASSY**
→ **MAIN P.W.B SUB ASSY**

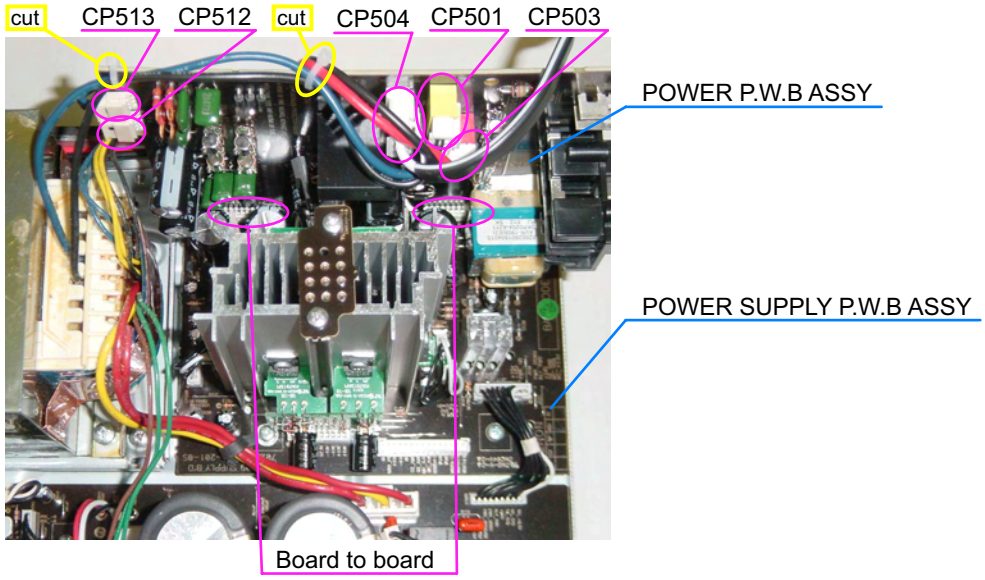
Please refer to **"EXPLODED VIEW "** for the disassembly method of each P.W.B included in MAIN P.W.B ASSY .
MAIN P.W.B ASSY の各基板のはずしかたは **"EXPLODED VIEW "** を参照してください。

9. POWER P.W.B SUB ASSY

proceeding (手順) : **CABINET TOP** → **HDMI P.W.B ASSY** → **SIRIUS P.W.B ASSY**
→ **TUNER PACK** → **CHASSIS BACK SUB ASSY**
→ **POWER P.W.B SUB ASSY**

(1) Disconnect the connector wires and boards.（コネクタワイヤーとコネクタボードをはずす。）

Picture C



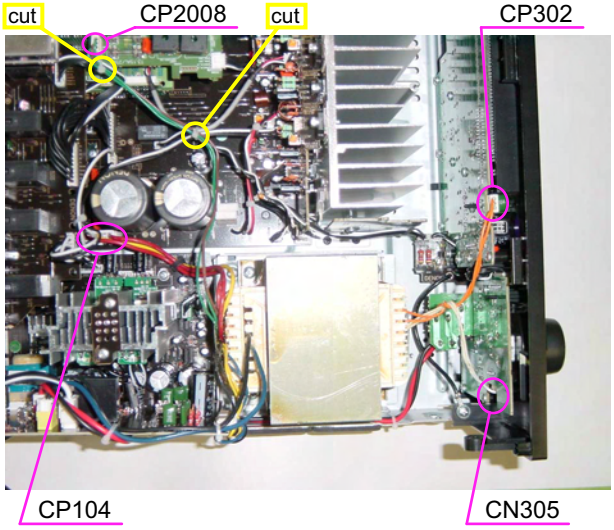
Please refer to **"EXPLODED VIEW "** for the disassembly method of each P.W.B included in POWER P.W.B SUB ASSY.
POWER P.W.B SUB ASSY の各基板のはずしかたは **"EXPLODED VIEW "** を参照してください。

10. TRANS

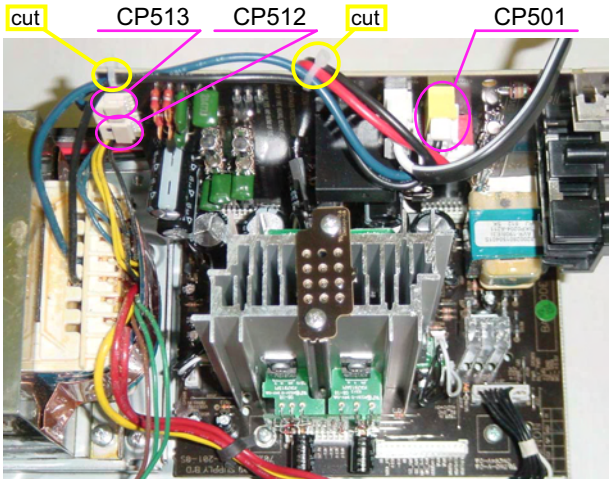
proceeding (手順) : **CABINET TOP** → **TRANS**

(1) Disconnect the connector wires.（コネクタワイヤーをはずす。）

Top view



Picture C



Please refer to **"EXPLODED VIEW "** for the disassembly method of POWER TRANS.
POWER TRANS のはずしかたは **"EXPLODED VIEW "** を参照してください。

CAUTION IN SERVICING

Initializing AV SURROUND RECEIVER/AMPLIFIER

AV SURROUND RECEIVER/AMPLIFIER initialization should be performed when the µcom, peripheral parts of µcom, and Digital P.W.B. are replaced.

1. Switch off the unit.
2. With the "INPUTMODE" and "SPEAKERS" buttons pressed, press the "ON/OFF" button to turn the power on.
3. Check that the entire display is flashing with an interval of about 1 second, and release your fingers from the 2 buttons and the microprocessor will be initialized.

Note: ・If step 3 does not work, start over from step 1.
・All user settings will be lost and this factory setting will be recovered when this initialization mode. So make sure to m+emorize your setting for restoring after the initialization.

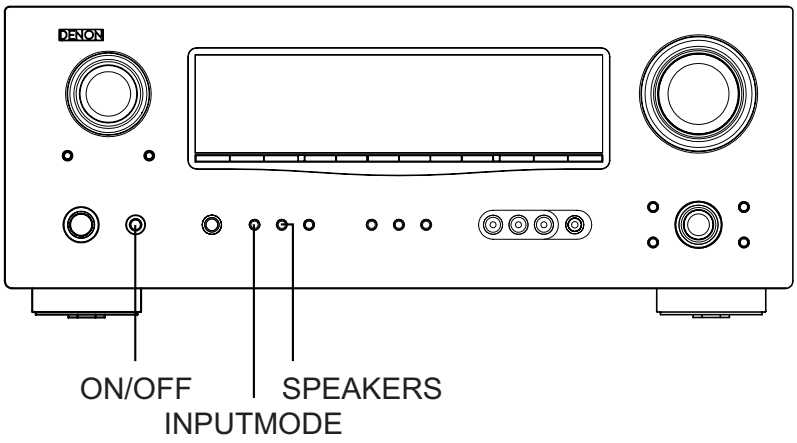
サービス時の注意事項

AV サラウンドレシーバー / アンプの初期化について

マイコンやマイコン周辺部品、Digital 基板等を交換した場合は、AV サラウンドレシーバー / アンプの初期化を行って下さい。

1. "ON/OFF" ボタンを OFF にします。
2. "INPUTMODE" と "SPEAKERS" の 2 つのボタンを押した状態で、"ON/OFF" ボタンを押して ON にします。
3. ディスプレイ表示が約 1 秒間隔で点滅するのを確認後、2 つのボタンから指を離します。
＊マイコンが初期化されます。

注意：・上記 3 の状態にならない場合は、もう一度操作 1 からやり直してください。
・初期化を行うとお客様が設定した内容が工場出荷状態に戻りますので、あらかじめ設定内容を控えておき初期化後再設定してください。



JIG to use for servicing

When you repair the printing board, you can use the following JIG (Extension cable kit). Please order to Denon Official Service Distributor in your region if necessary.

00D SPK- 561 EXTENSION UNIT KIT : 1 Set
00D SPK- 562 9120 CONN. JOINT KIT : 1 Set

When you update the firmware, you can use the following JIG (RS232C to internal connector conversion adapter with 8P cable kit). Please order to Denon Official Service Distributor in your region if necessary.

00DSPK-581 WRITING UNIT : 1 Set

サービス時に使用する治具について

基板を修理する際、使用する治具 (延長ケーブルキット) は 下記のとおりです。
必要に応じて販社サービスへ注文下さい。

00D SPK- 561 EXTENSION UNIT KIT : 1 式
00D SPK- 562 9120 CONN. JOINT KIT : 1 式

ファームウェアをアップデートする際、使用する治具 (RS232C → 製品内部コネクタ 変換基板 +8P ケーブルキット) は下記のとおりです。
必要に応じて販社サービスへ注文ください。

00DSPK-581 WRITING UNIT : 1 式

Check mode for µcom/DSP version

µcom/DSP Version Display Mode

1. Operation specifications

µcom/DSP version display mode:

When started up, the version information is displayed.

Starting up:

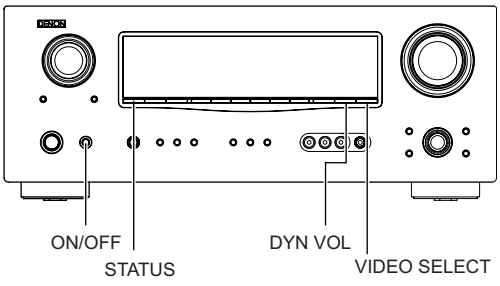
● **E3, EA, JP model**

With the "DYN VOL" and "VIDEO SELECT" buttons pressed, press the "ON/OFF" button to turn the power on. Now, press the "STATUS" button to the display the 2nd item information on the FL Display.

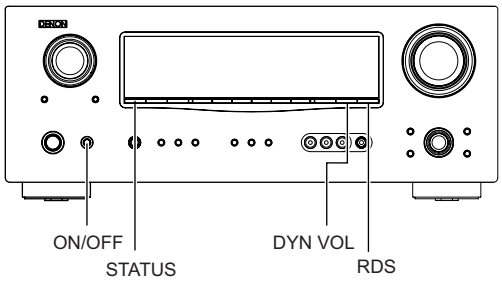
● **E2 model**

With the "DYN VOL" and "RDS" buttons pressed, press the "ON/OFF" button to turn the power on.
Now, press the "STATUS" button to the display the 2nd item information on the FL Display.

E3, EA, JP model



E2 model



2. Display Order

Destination information→ Main-µcom version information → DSP version information

マイコン・DSP バージョンのチェック方法

マイコン・DSP バージョン表示モード

1. 動作仕様

マイコン、DSP バージョン表示モード :

起動状態にて、バージョン情報を表示します。

起動方法 :

● **E3, EA, JP モデル**

"DYN VOL" と "VIDEO SELECT" の 2 つのボタンを押した状態で、"ON/OFF" ボタンを押して電源を入れます。
その後、"STATUS" ボタンを押すと 2 項の内容が FL Display に表示されます。

● **E2 モデル**

"DYN VOL" と "RDS" の 2 つのボタンを押した状態で、"ON/OFF" ボタンを押して電源を入れます。
その後、"STATUS" ボタンを押すと 2 項の内容が FL Display に表示されます。

2. 表示順序

仕向地表示 → メインマイコンバージョン情報 → DSP バージョン情報

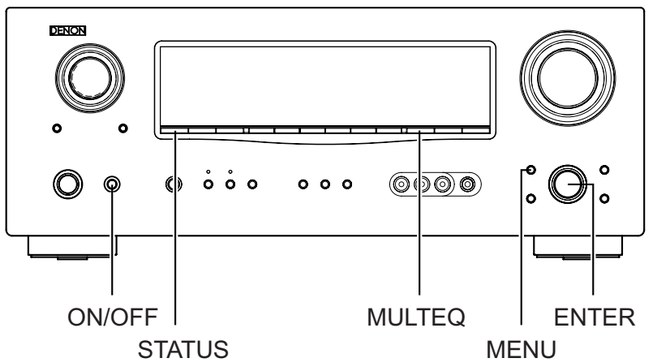
PROCEDURE FOR CHECKING ERRORS

Displaying the protection history

1. Operation specifications

ERROR MODE(displaying the protection history)
When started up, the error information is displayed.

Starting up:
With the "MENU" and "MULTEQ" buttons pressed, press the "ON/OFF" button to turn the power on. The error (protection history display) mode is set.
Now, press the "STATUS" button to turn on the FL display.



2. About the display on the FL display

When the "STATUS" button is pressed after setting the error (protection history display) mode, a history like the one shown below is displayed, depending on the conditions.
(1) Normally (when there has been no protection incident)

Upper	P	R	O	T	E	C	T		H	I	S	T	O	R	Y
Lower	:	N	O		P	R	O	T	E	C	T				

(2) For ASO/DC (when the last protection incident was ASO or DC protection)

Upper	P	R	O	T	E	C	T		H	I	S	T	O	R	Y
Lower	:	A	S	O	/	D	C								

(3) For THERMAL (when the last protection incident was THERMALprotection)

Upper	P	R	O	T	E	C	T		H	I	S	T	O	R	Y
Lower	:	T	H	E	R	M	A	L							

When the "STATUS" button is pressed again after the above protection history is displayed, the normal display reappears.

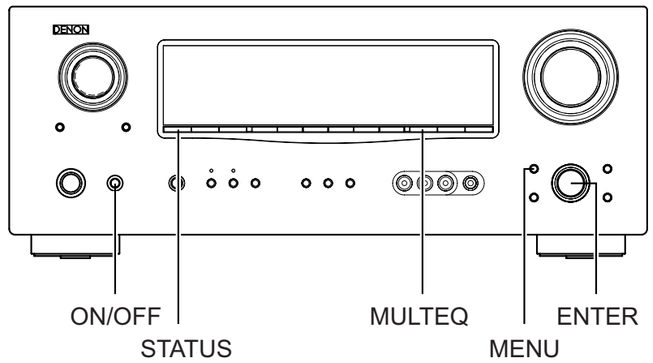
ERROR 確認方法

PROTECTION 履歴表示

1. 動作仕様

ERROR (PROTECTION 履歴表示) モード :
起動状態にて、ERROR 情報を表示します。

起動方法 :
"MENU" と“MULTEQ”の２つのボタンを押した状態で、"ON/OFF" ボタンを押して電源を入れると、ERROR（PROTECTION 履歴表示）モードとなります。
その後、“STATUS”ボタンを押すと FL Display 表示されます。



2. FL Display 表示に関して

ERROR（PROTECTION 履歴表示）モード後に、“STATUS”ボタンを押すと、状況によって以下ような履歴を表示します。
(1) 正常時 (今まで PROTECTION が発生していない場合)

上段	P	R	O	T	E	C	T		H	I	S	T	O	R	Y
下段	:	N	O		P	R	O	T	E	C	T				

(2) ASO/DC 時 (最後の PROTECTION が ASO または DC PROTECTION の場合)

上段	P	R	O	T	E	C	T		H	I	S	T	O	R	Y
下段	:	A	S	O	/	D	C								

(3) THERMAL 時 (最後の PROTECTION が THERMAL PROTECTION の場合)

上段	P	R	O	T	E	C	T		H	I	S	T	O	R	Y
下段	:	T	H	E	R	M	A	L							

上記の PROTECTION 履歴表示後に、再度“STATUS”ボタンを押すと、定常表示となります。

3. Clearing the protection history

There are two ways to clear the protection history, as described below.

(1) Start up the error (protection display) mode, display the error, then press and hold in the "ENTER" button for 3 seconds.

Upper	P	R	O	T	E	C	T		H	I	S	T	O	R	Y
Lower	:	T	H	E	R	M	A	L							

↓ Press and hold in the "ENTER" button for 3 seconds

Upper	P	R	O	T	E	C	T		H	I	S	T	O	R	Y
Lower					C	L	E	A	R						

↓ The above is displayed and the protection history is cleared.

Upper	P	R	O	T	E	C	T		H	I	S	T	O	R	Y
Lower	:	N	O		P	R	O	T	E	C	T				

(2) Initialize.

※ If you want to save a backup, use the method in 3.(1) above.

Warning indication by the STANDBY LED

If the power is turned off when a protection incident has been detected, the STANDBY LED (red) flashes as follows as warning according to the conditions in which the protection incident occurred.

(1) ASO/DC PROTECTION : Flashes in cycles of 0.5 seconds (0.25 seconds lit, 0.25 seconds off)

(2) THERMAL PROTECTION : Flashes in cycles of 2 seconds (1 second lit, 1 second off)

3. PROTECTION 履歴のクリア方法

PROTECTION 履歴をクリアするには、下記２通りの方法があります。

(1) ERROR(PROTECTION 表示) モードを起動して ERROR を表示状態にして、“ENTER” ボタンを３秒間長押しする。

上段	P	R	O	T	E	C	T		H	I	S	T	O	R	Y
下段	:	T	H	E	R	M	A	L							

↓ ENTER ボタンを 3 秒間長押しする。

上段	P	R	O	T	E	C	T		H	I	S	T	O	R	Y
下段					C	L	E	A	R						

↓ 上記が表示され、PROTECTION 履歴がクリアされます。

上段	P	R	O	T	E	C	T		H	I	S	T	O	R	Y
下段	:	N	O		P	R	O	T	E	C	T				

(2). イニシャライズを行う。

※バックアップを保持したい場合は、3.(1) の方法で行なってください。

STANDBY LED による警告表示

PROTECTION を検出した状態で POWER OFF した場合、PROTECTION の発生状況によって、STANDBY LED(赤色) が下記のように点滅し、警告表示します。

(1) ASO/DC PROTECTION ：0.5 秒周期の点滅（0.25 秒点灯 /0.25 秒消灯）

(2) THERMAL PROTECTION：2 秒周期の点滅（1 秒点灯 / 1 秒消灯）

ADJUSTMENT

Audio Section

Idling Current

Required measurement equipment: DC Voltmeter

1. Preparation

(1) Avoid direct blow from an air conditioner or an electric fan, and adjust the unit at normal room temperature 15 °C ~ 30 °C (59 °F ~ 86 °F).

(2) Presetting
- POWER (Power source switch) OFF
- SPEAKER (Speaker terminal) No load
  (Do not connect speaker, dummy resistor, etc.)

2. Adjustment

(1) Remove top cover and set VR101 FL, FR, C, SL, SR, on Main Amp. Unit, VR401, VR402 on 2ch- Amp. Unit at fully counterclockwise (↺) position.

(2) Connect DC Voltmeter to test points (FRONT-Lch: TP101, FRONT-Rch: TP105, CENTER ch: TP103, SURROUND-Lch: TP102, SURROUND-Rch: TP104, SURROUND-BACK Lch: TP401, SURROUND-BACK Rch: TP402).

(3) Connect power cord to AC Line, and turn power switch "ON".

(4) Presetting.
MASTER VOLUME : "---" counterclockwise (↺ min.)
SPEAKER (Speaker terminal) : No load
(Do not connect speaker, dummy resistor, etc.)
MODE : 7CH STEREO (5CH STEREO)
FUNCTION : CD

(5) Within 2 minutes after the power on, turn VR101 clockwise (↻) to adjust the TEST POINT voltage to 1.5 mV ± 0.5 mV DC.

(6) After 10 minutes from the preset above, turn VR101 to set the voltage to 2.0 mV ± 0.5 mV DC.

(7) Adjust the Variable Resistors of other channels in the same way.

調整

オーディオセクション

アイドリング電流の調整

調整に必要な測定器： DC Voltmeter

1. 準備

(1) セットをクーラ、扇風機のそばなど風通しの良い場所を避け、通常の使用状態に置きます。セットの周囲温度は 15 ～ 30 ℃、湿度は常湿とします。

(2) プリセット
- 電源スイッチ OFF
- スピーカ端子 無負荷
  (スピーカ・ダミー抵抗器などを接続しない。)

2. 調整

(1) 上カバーをはずし、メインアンプ基板の VR101 FL, FR, C, SL, SR 及び 2ch- アンプ基板の VR401,VR402 を反時計方向 (↺) に回し切った状態にセットします。

(2) テストポイント (FRONT-Lch: TP101, FRONT- Rch: TP105, CENTER ch: TP103, SURROUND-Lch: TP102, SURROUND-Rch: TP104, SURROUND-BACK Lch: TP401, SURROUND-BACK Rch: TP402) に DC Voltmeter を接続します。

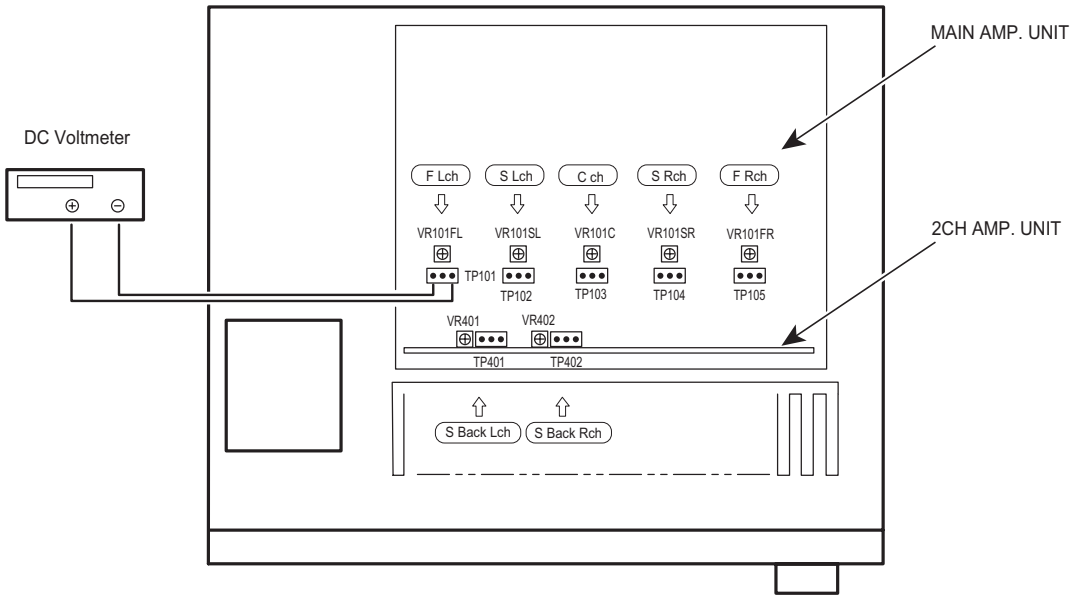
(3) 電源コードを AC100V（95 ～ 105V の範囲でも可）に接続し、電源スイッチを "ON" にします。

(4) ON 後、次のようにセットします。
- MASTER VOLUME（音量調節つまみ）→反時計方向 (↺) に回す、最小の状態にする。
- SPEAKER（スピーカ端子）→無負荷（スピーカ、ダミー抵抗器などを接続しない。）
  MODE ： 7CH STEREO (5CH STEREO)
  FUNCTION ： CD

(5) 2 分以内に VR101 を時計方向 (↻) に回しテストポイントの電圧を次のように調整します。
1.5mV ± 0.5mV DC

(6) 予備調整から 10 分後 VR101 を回し、次のように電圧を設定します。
2.0mV ± 0.5mV DC

(7) 同じ方法で各チャネルの可変抵抗を調整します。

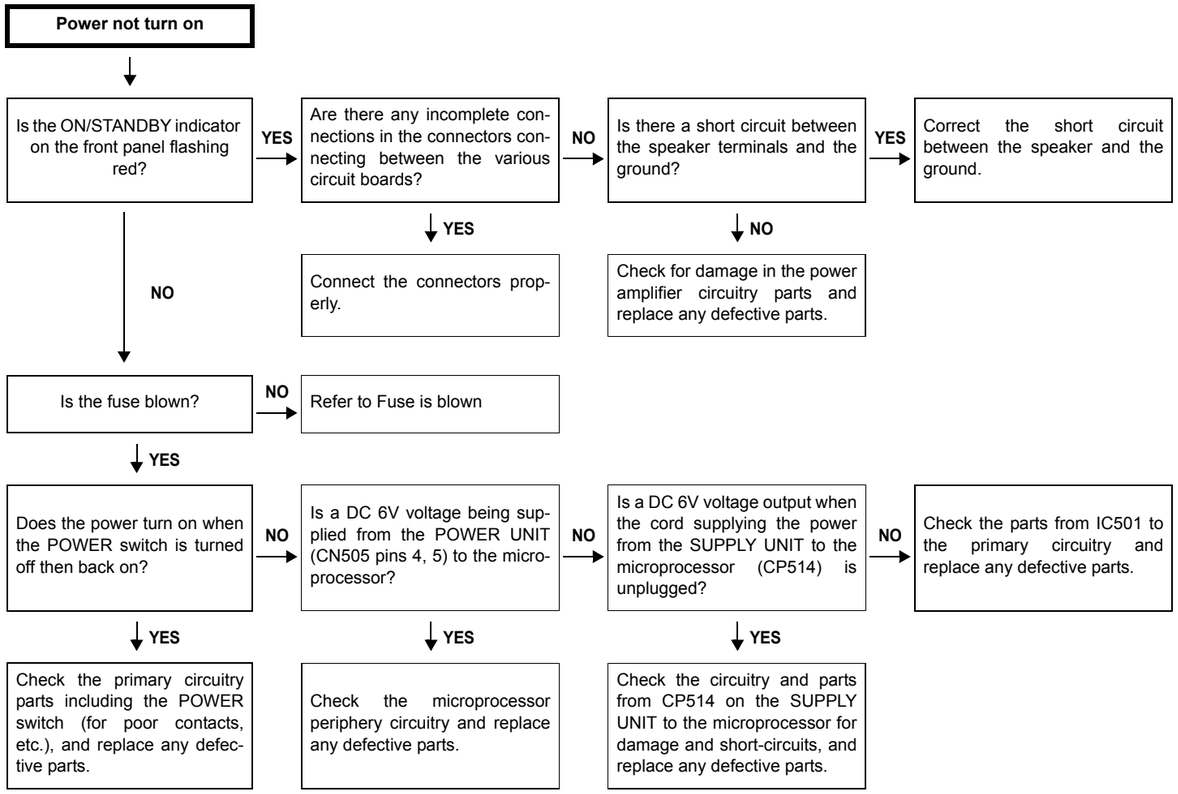


---MEMO---

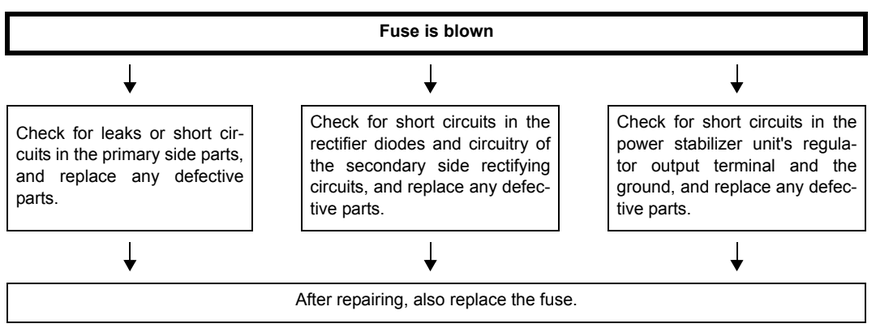
TROUBLE SHOOTING

1. POWER

1.1. Power not turn on



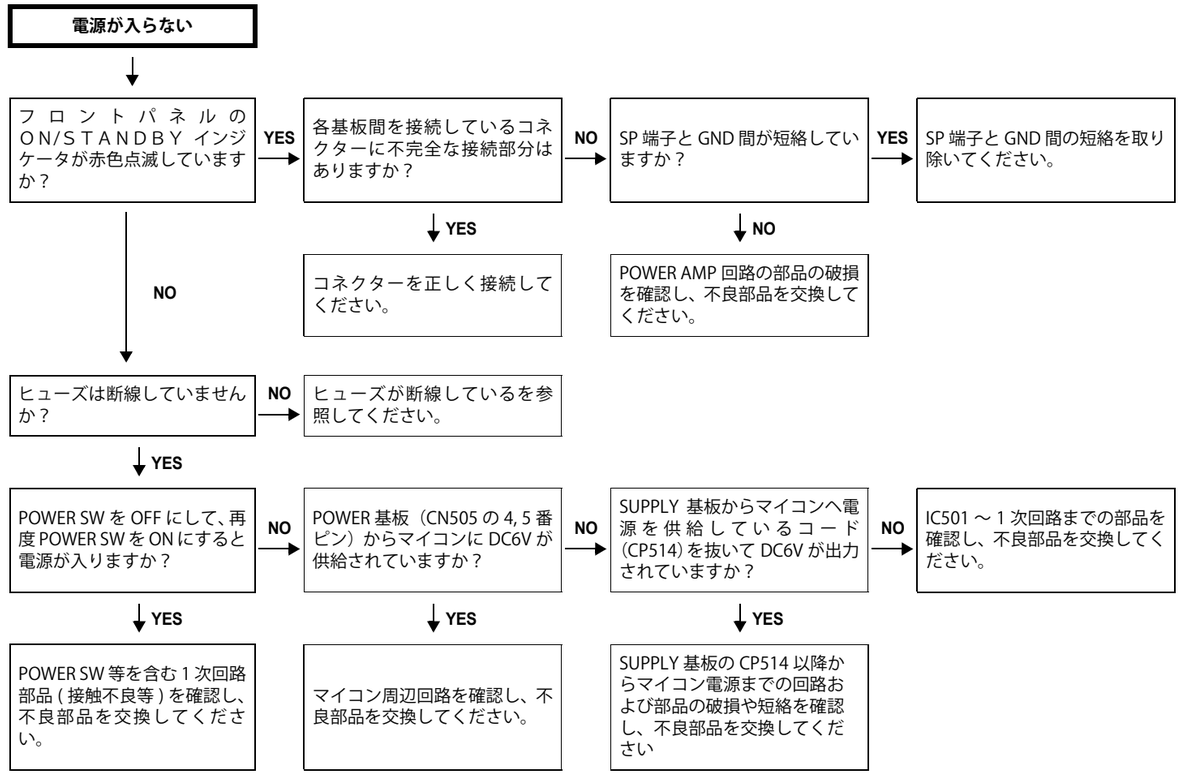
1.2. Fuse is blown



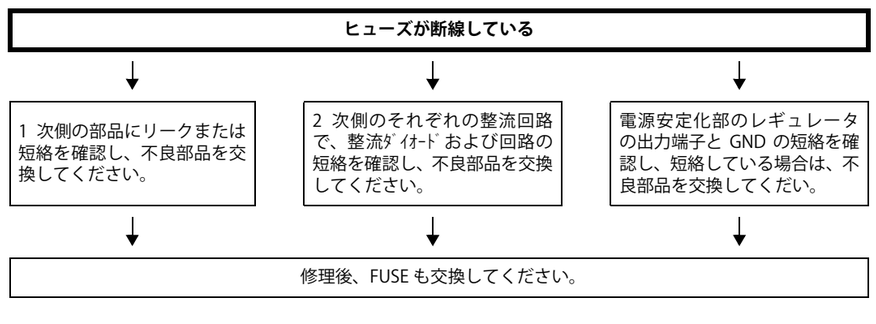
トラブルシューティング

1. 電源

1.1. 電源が入らない

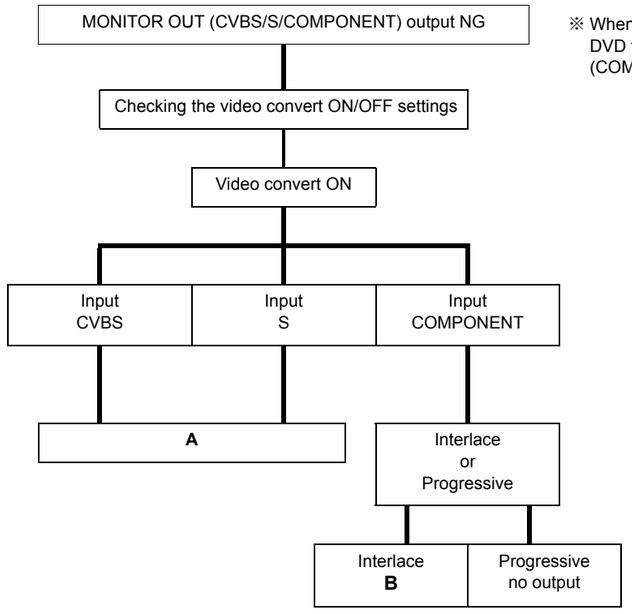


1.2. ヒューズが断線している

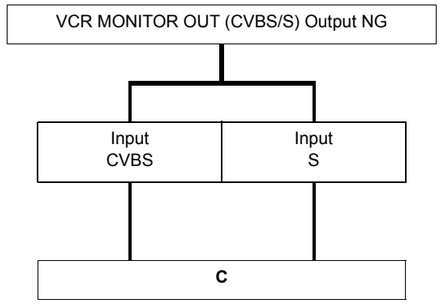


2. Analog video

2.1. Monitor out & VCR out



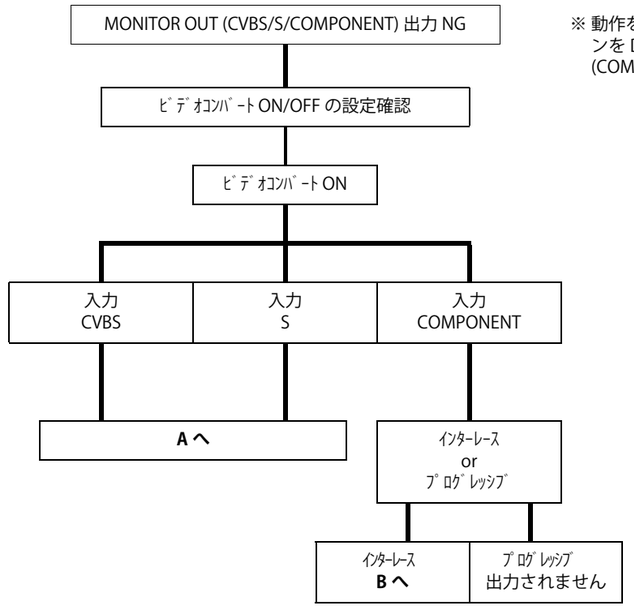
※ When checking operation, select DVD for the function. (COMPONENT1 input)



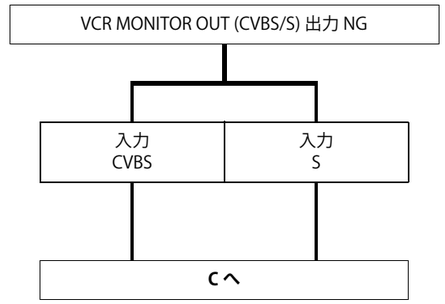
※ When checking operation, select DVD for the function.

2. アナログビデオ

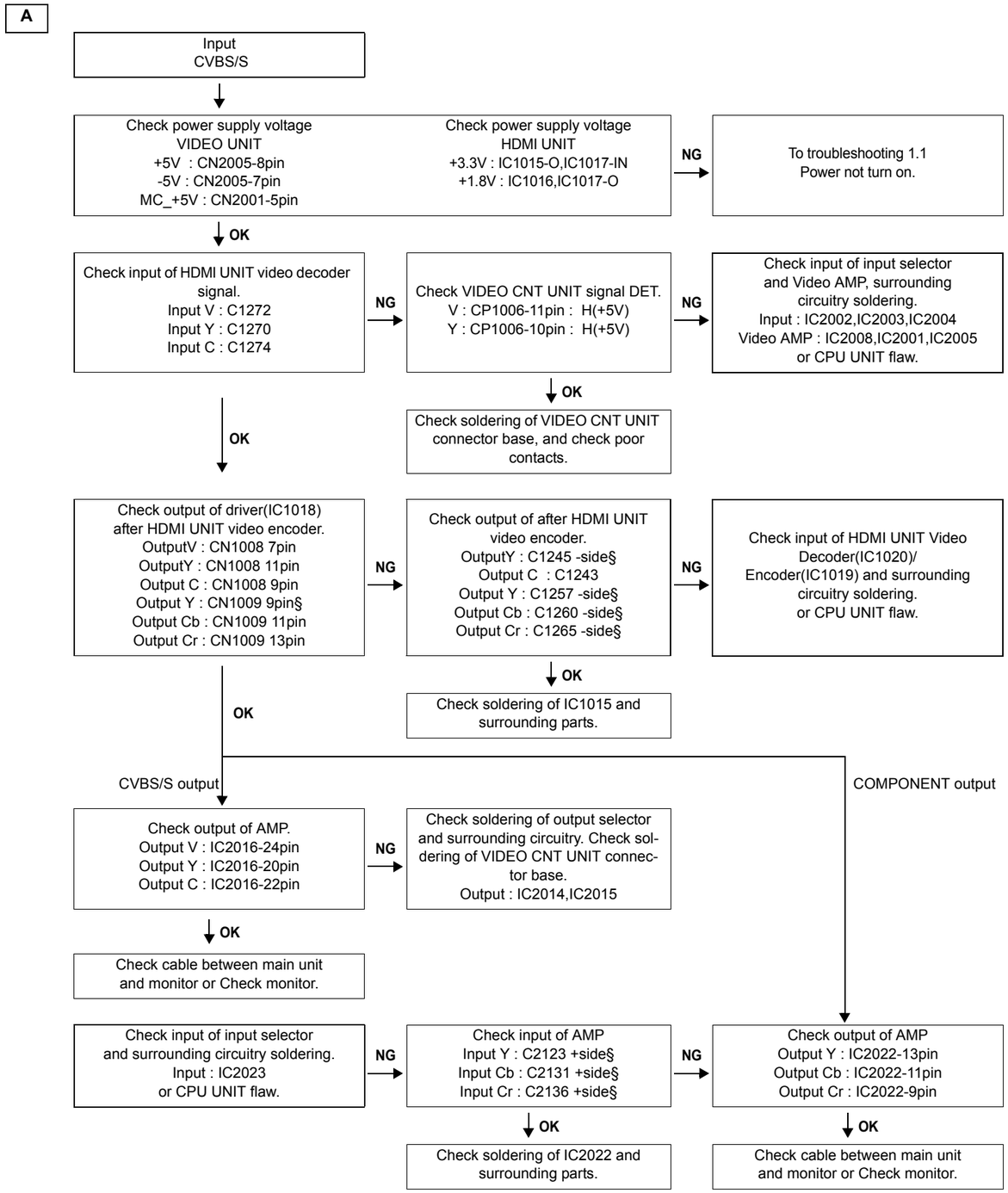
2.1. Monitor out & VCR out



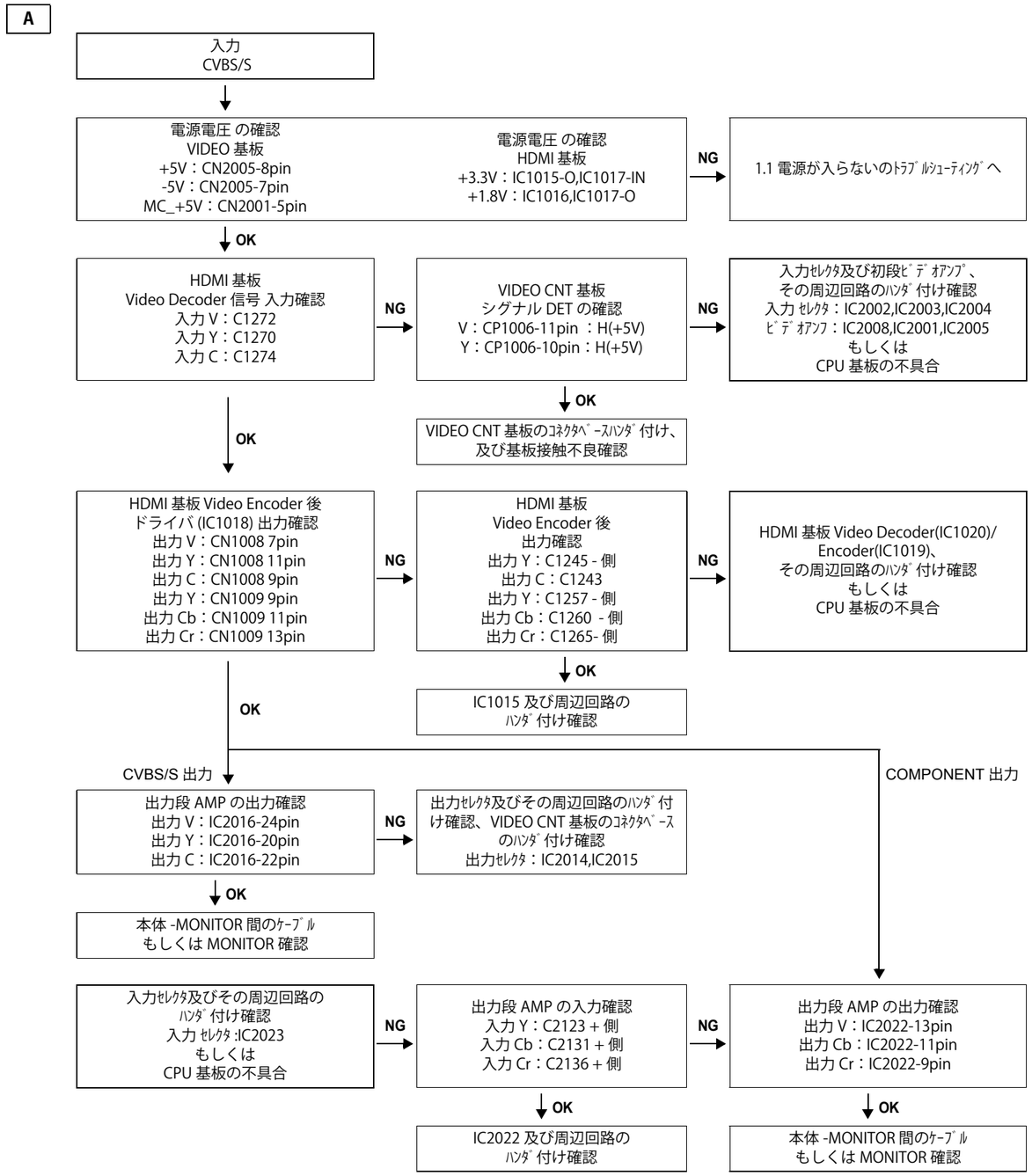
※ 動作を確認する時はファンクションを DVD に選択してください。 (COMPONENT1 入力)



※ 動作を確認する時はファンクションを DVD に選択してください。

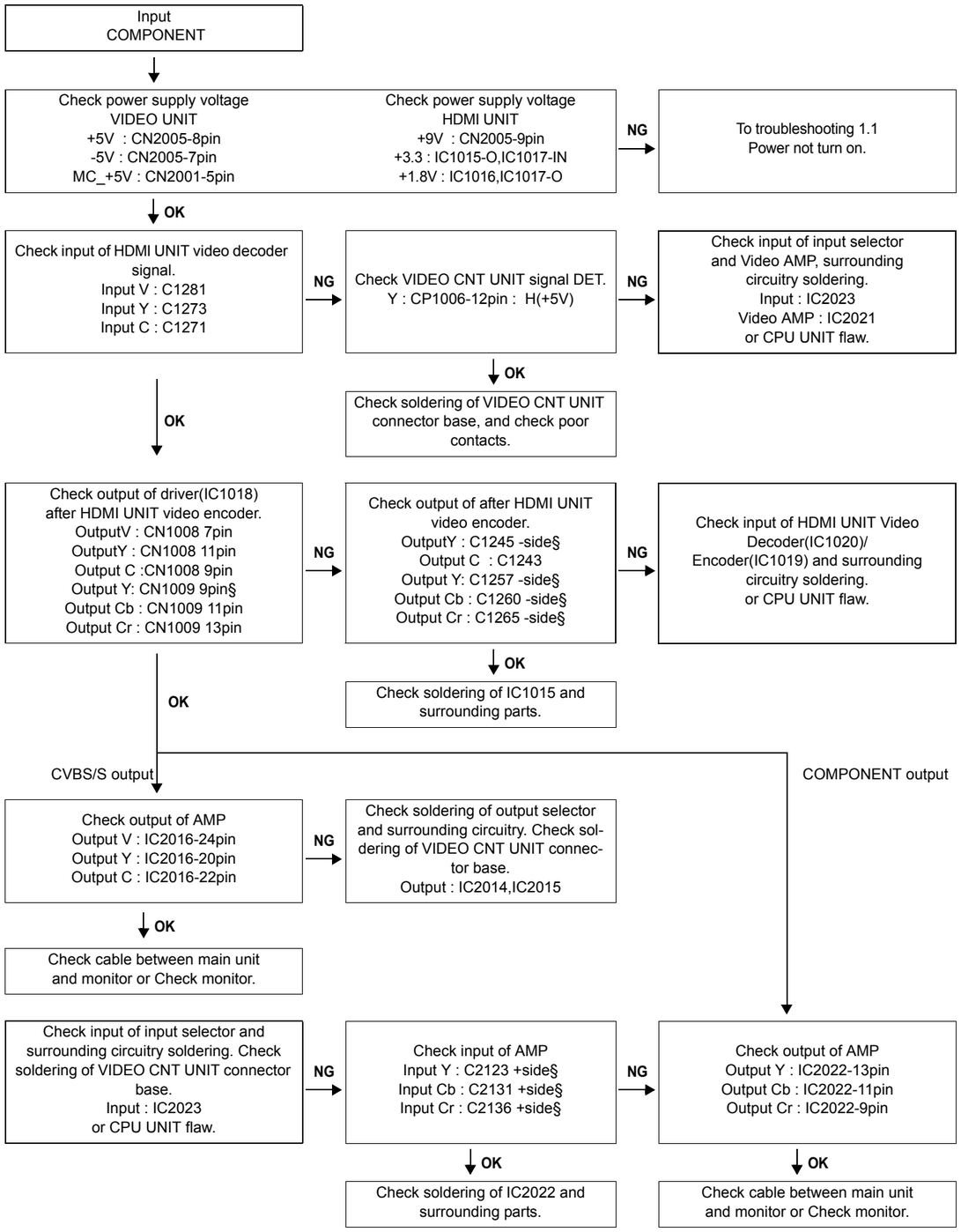


※ Unless specified, VIDEO UNIT part.



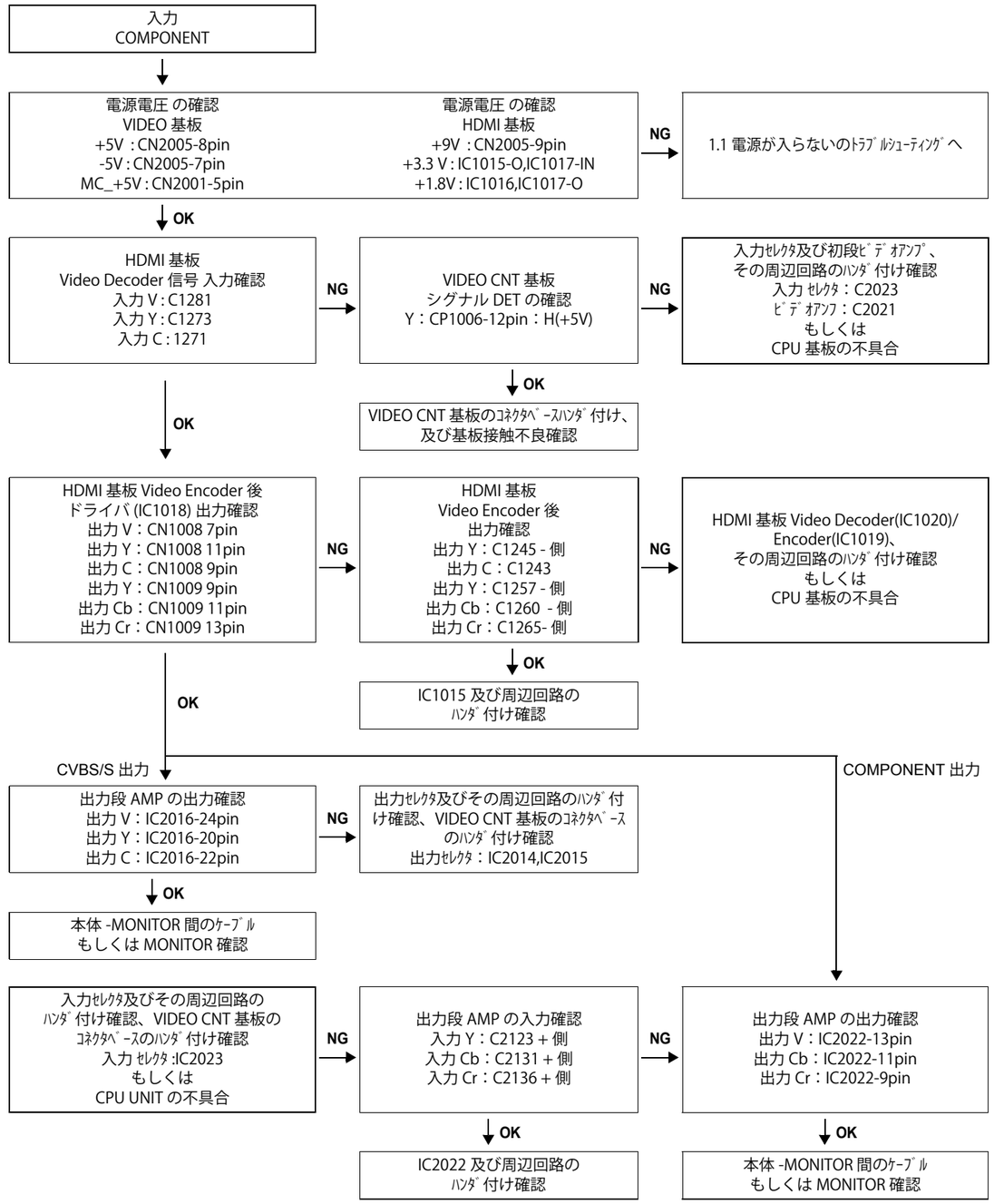
※ 特に記載がない場合は VIDEO 基板 の部品です。

B



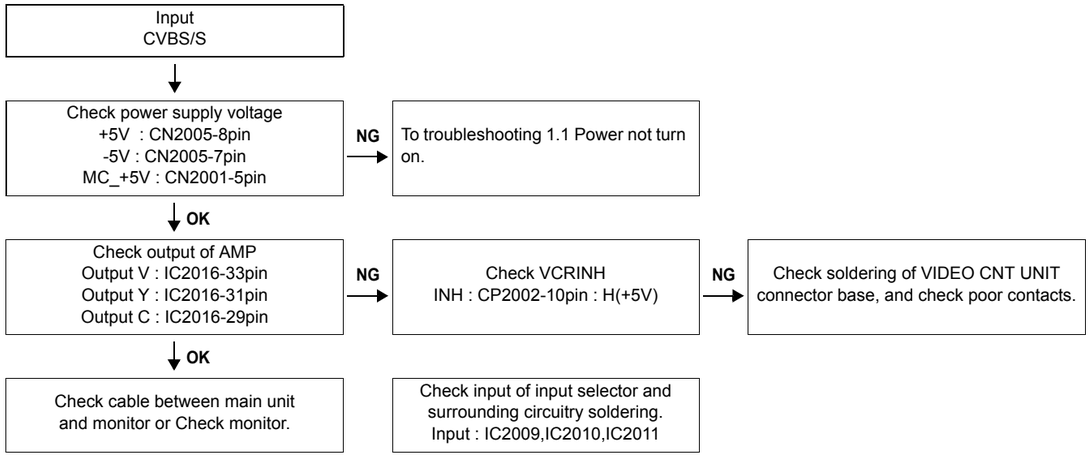
※ Unless specified, VIDEO UNIT part.

B



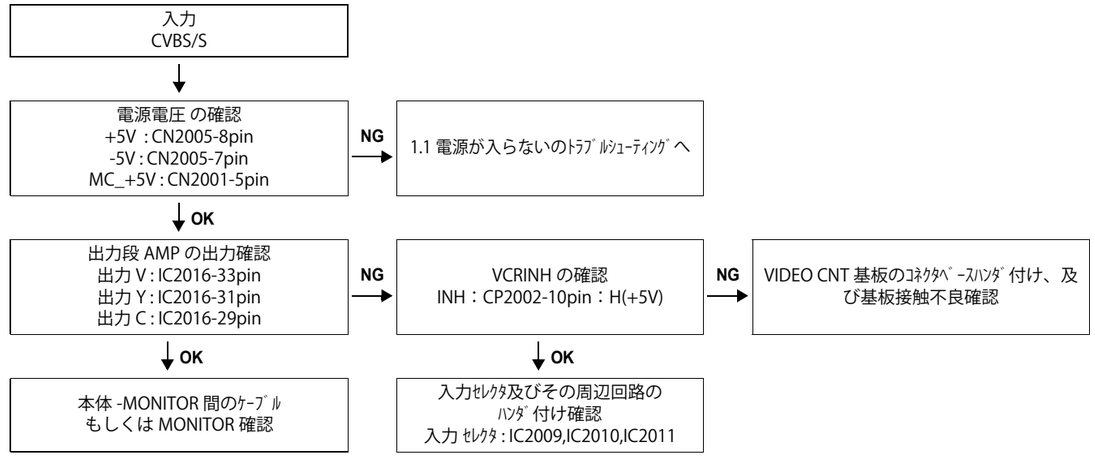
※ 特に記載がない場合は VIDEO 基板 の部品です。

C



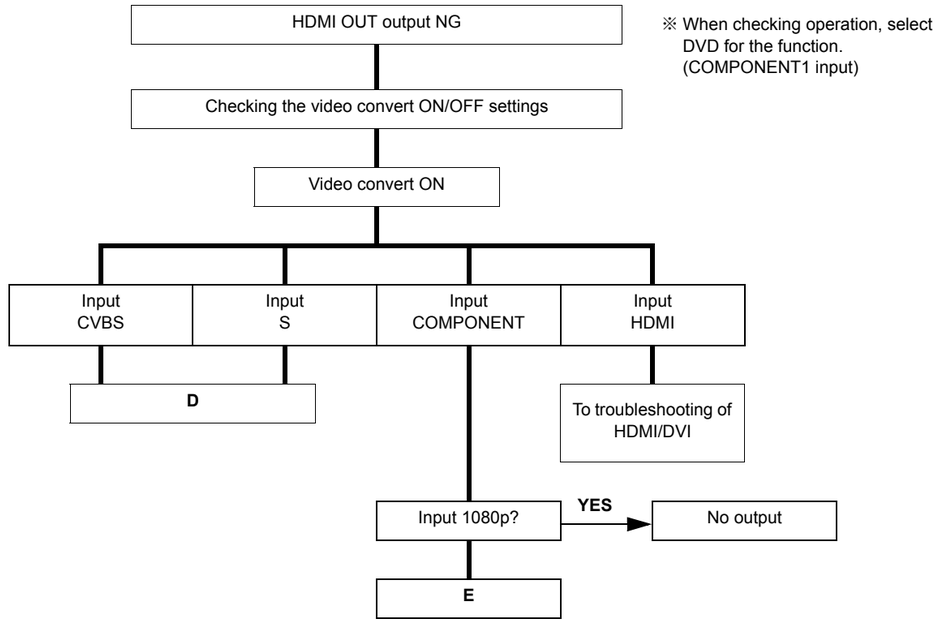
※ Unless specified, VIDEO UNIT part.

C



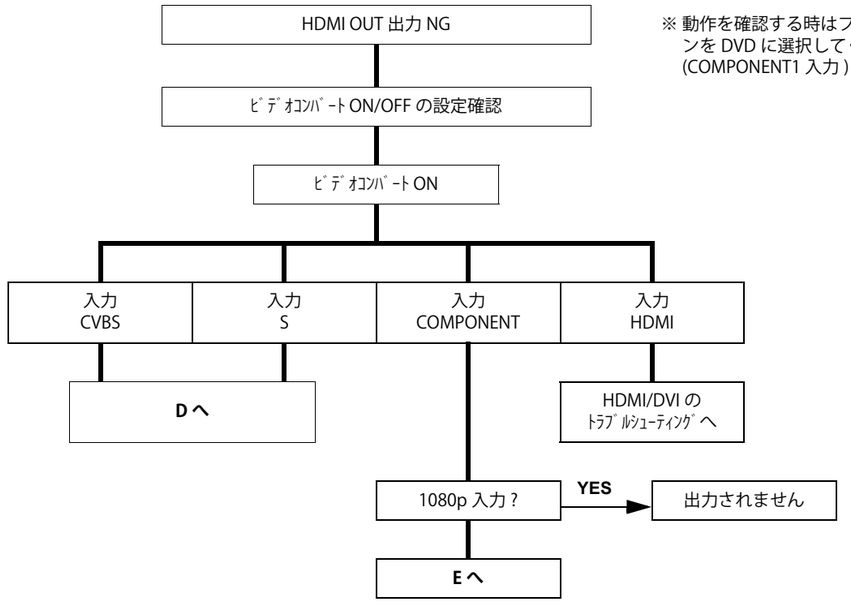
※ 特に記載がない場合は VIDEO 基板 の部品です。

2.2. HDMI out



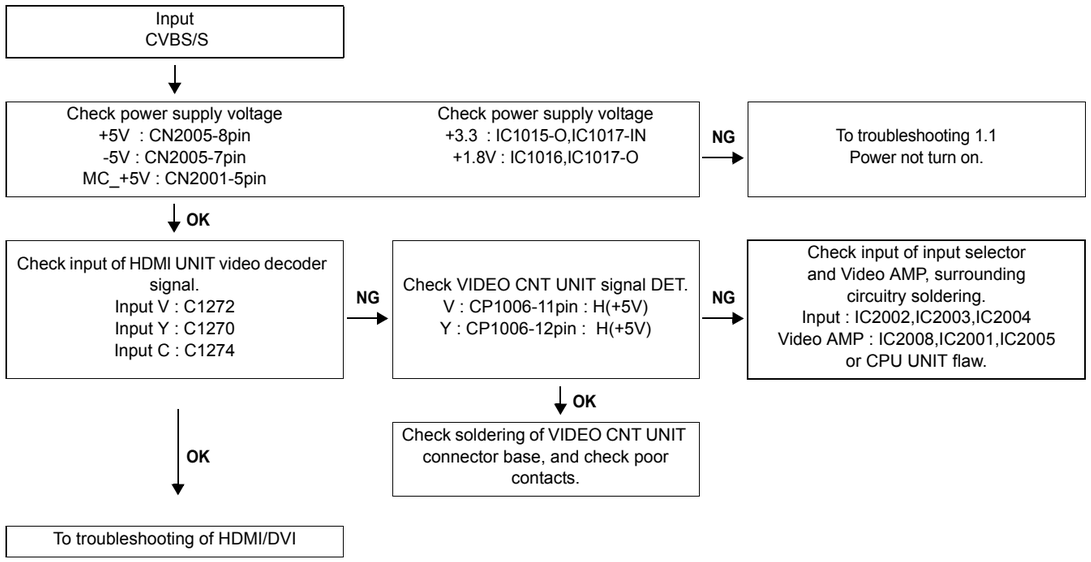
※ When checking operation, select DVD for the function. (COMPONENT1 input)

2.2. HDMI out



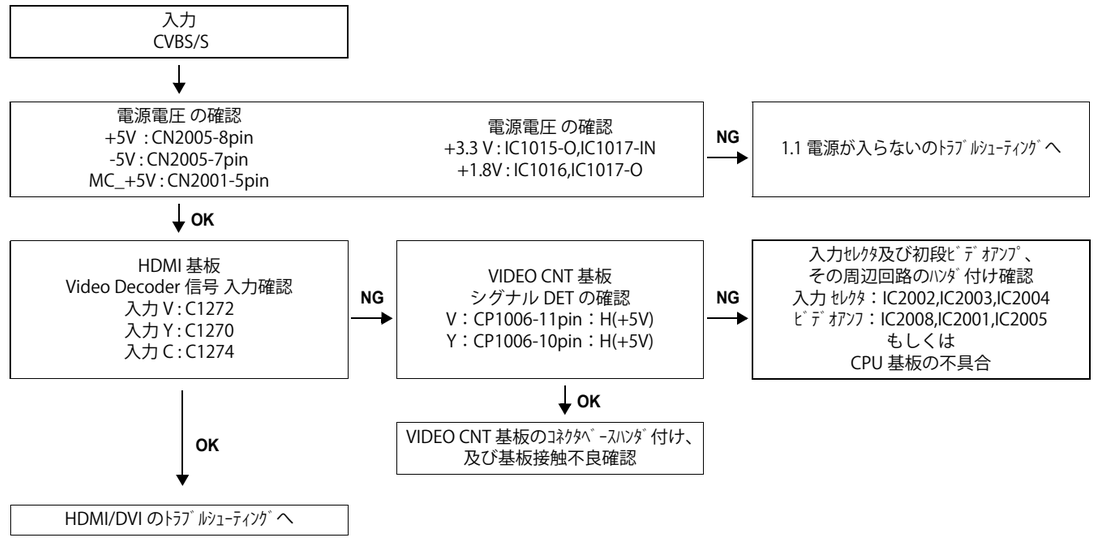
※ 動作を確認する時はファンクションを DVD に選択してください。 (COMPONENT1 入力)

D



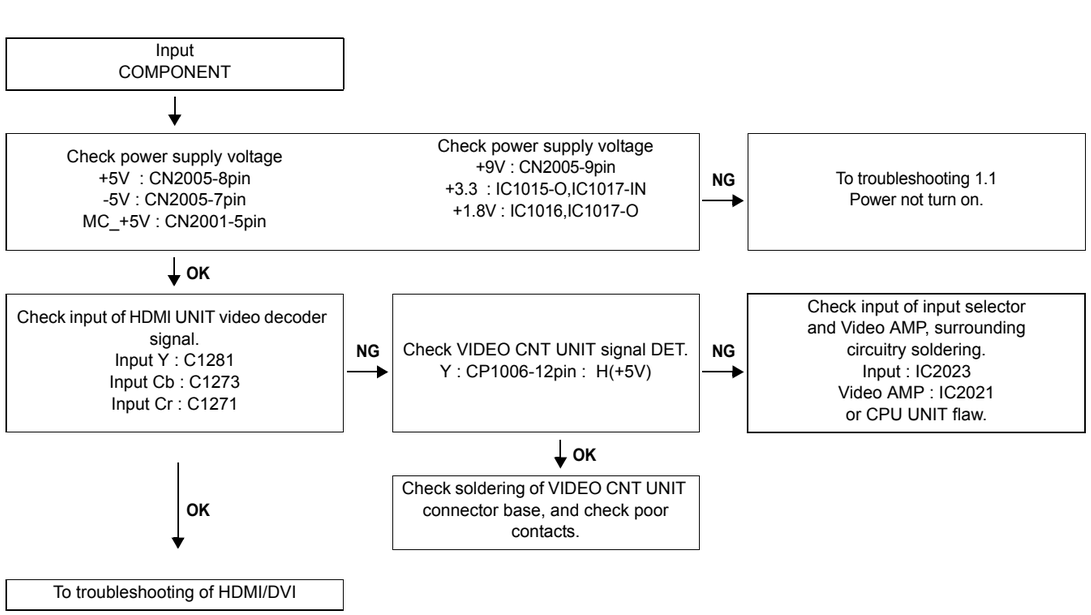
※ Unless specified, VIDEO UNIT part.

D



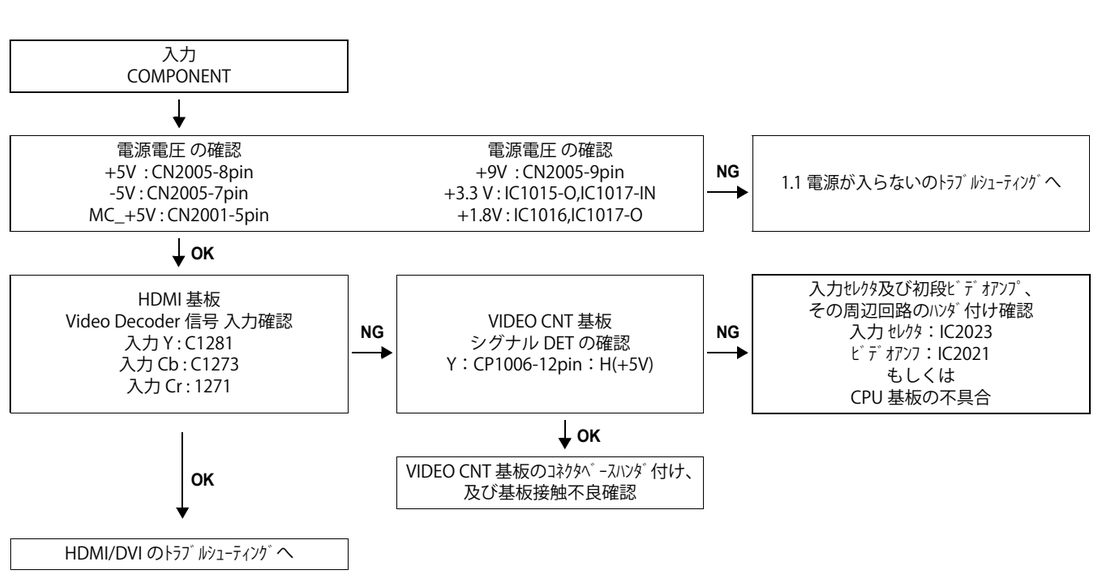
※ 特に記載がない場合は VIDEO 基板 の部品です。

E



※ Unless specified, VIDEO UNIT part.

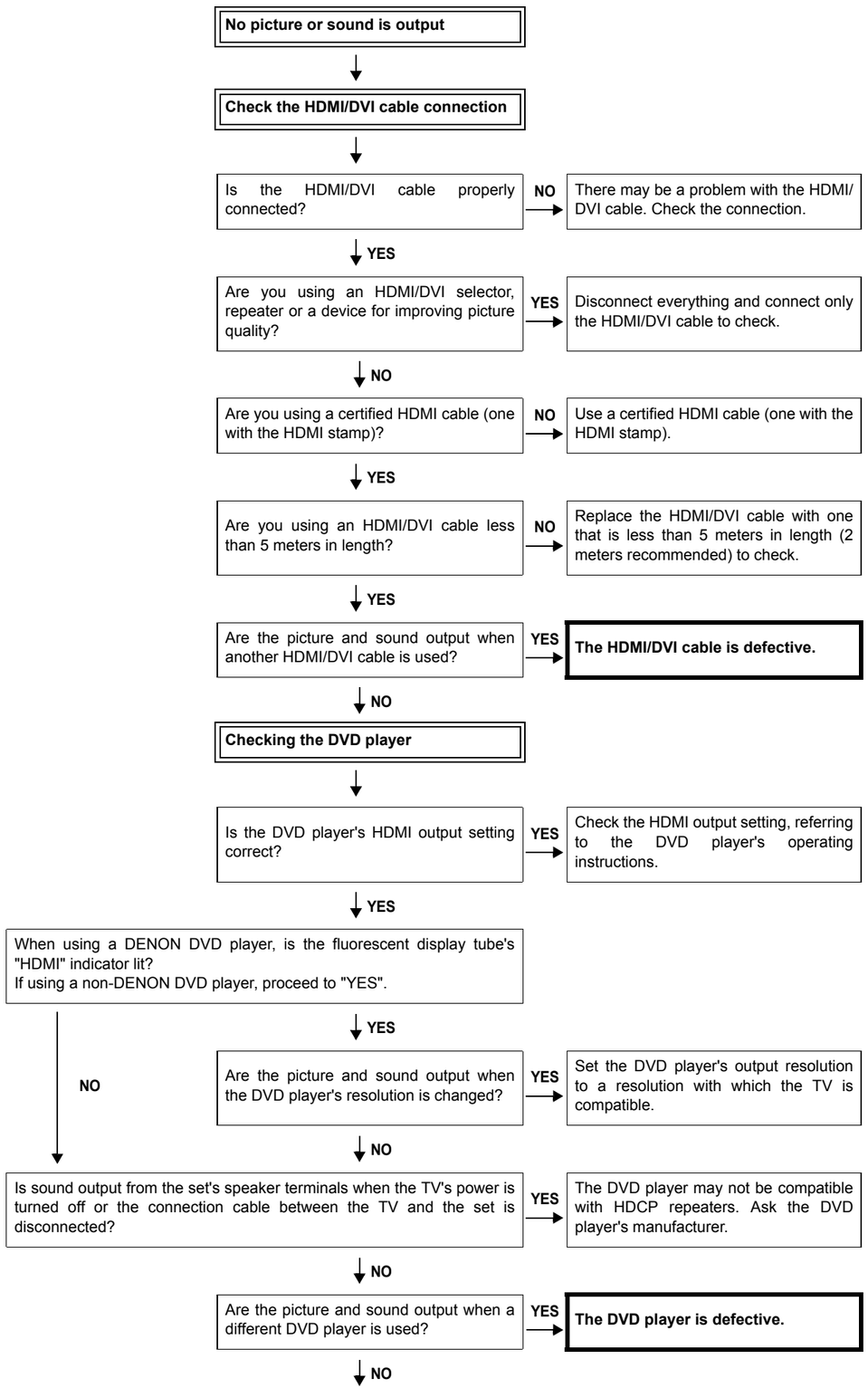
E



※ 特に記載がない場合は VIDEO 基板 の部品です。

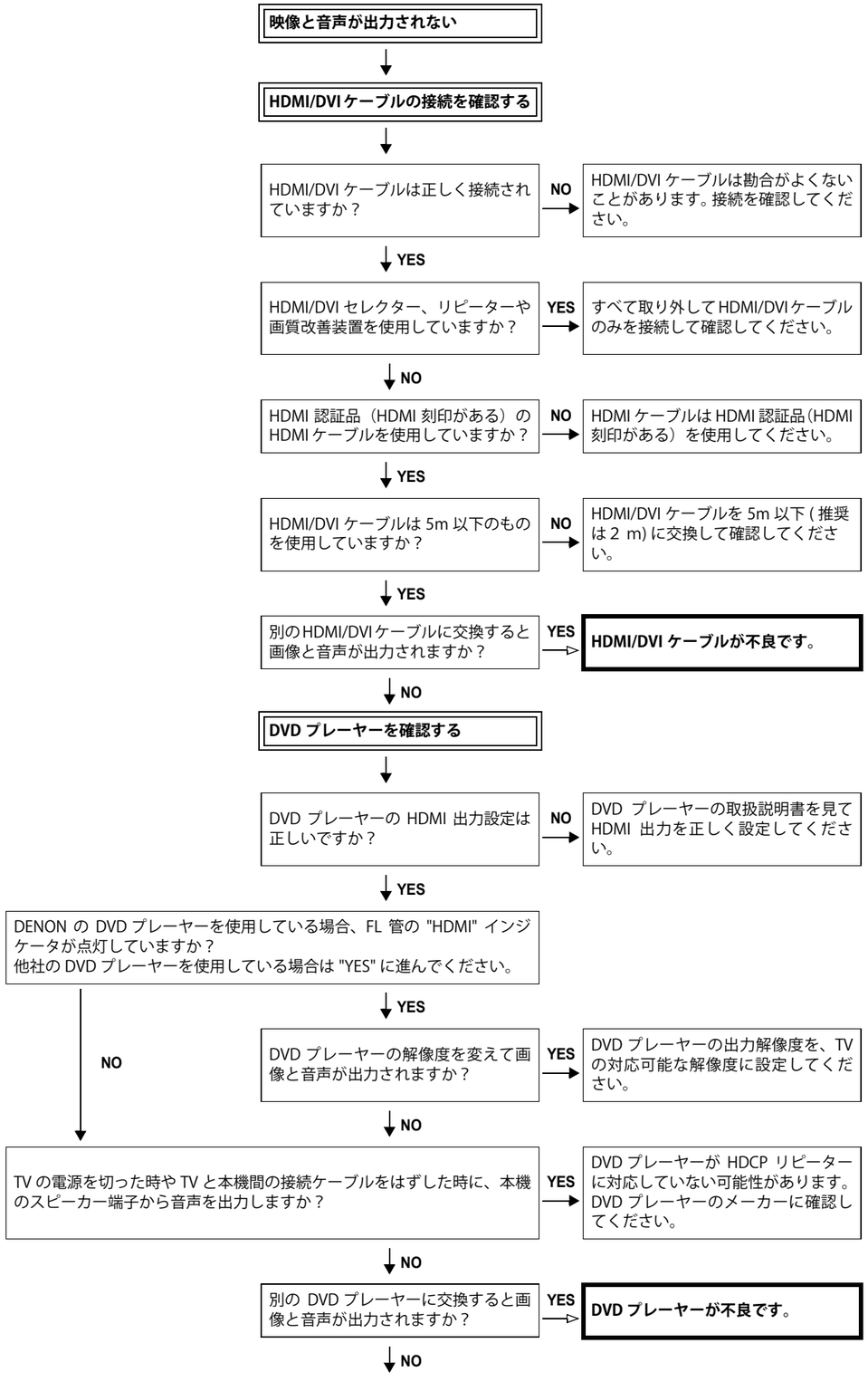
3. HDMI/DVI

3.1. No picture or sound is output



3. HDMI/DVI

3.1. 映像と音声が出力されない



Check the TV

↓

Is the TV HDCP-compatible? — NO → Use an HDCP-compatible TV. PC TVs cannot be used.

↓ YES

Is the TV compatible with resolutions of 1080P? — NO → If the TV is not compatible with resolutions of 1080P, no picture will be output, even if the DVD player's resolution is set to 1080P.

↓ YES

Is the TV's input set to HDMI? — NO → Check the TV's input setting, referring to the TV's operating instructions.

↓ YES

Are the picture and sound output when a different TV is used? — NO → **The TV is defective.**

↓ YES

Check the set

↓

Is the set's input set to HDMI? — NO → Check the set's input setting, referring to the set's operating instructions.

↓ YES

Is the TV information properly displayed on the "Monitor info." display menu? — NO → **The set does not recognize the TV.** Is IC1009 pin 51 "H" (3V-5V)? With the TV connected, check the voltage of the IC on the side on which the TV is connected. — NO → **The pattern and circuit from the HDMI connector (JK1004) to the IC (IC1009) is defective.**

↓ YES

Does the set's wallpaper image appear on the TV when the HDMI/DVI cable between the DVD player and the set is disconnected? — NO → Are the picture and sound output from other Monitor Out terminals (VIDEO out, S-VIDEO out or Component out)? — YES → **The HDMI output circuitry is defective. (IC1009/IC1010 and surrounding circuitry)**

↓ YES — NO

When using a DENON DVD player, is the fluorescent display tube's "HDMI" indicator lit? If using a non-DENON DVD player, proceed to "NO". — NO → **The DVD player does not recognize the connection with the set.** Is the HDMI connector (JK1001/JK1002/IC1003) pin 19 "H" (5V)? With the DVD player connected, check the voltage of the HDMI connector for the input on the side on which the DVD player is connected. — NO → **The pattern and circuit from the HDMI connector (JK1001/JK1002/IC1003) to the IC1045 is defective.**

↓ YES

The HDMI output circuitry is defective. (IC1002/IC1008/IC1010 and surrounding circuitry)

TV を確認する

↓

TV は HDCP に対応していますか？ — NO → HDCP に対応している TV を使用してください。PC 用の TV は使用できません。

↓ YES

TV は 1080P に対応していますか？ — NO → TV が 1080P に対応していない場合、DVD プレーヤーを 1080P に設定しても、画像は出力されません。

↓ YES

TV の入力設定が HDMI 入力になっていますか？ — NO → TV の取扱説明書を見て入力設定を確認してください。

↓ YES

別の TV に交換すると画像と音声が出力されますか？ — NO → **TV が不良です。**

↓ YES

本機を確認する

↓

本機の入力設定が HDMI 入力になっていますか？ — NO → 本機の取扱説明書を見て入力設定を確認してください。

↓ YES

Monitor info. 表示メニューで TV の情報が正しく表示されていますか？ — NO → **本機が TV を認識していません** IC1009 の 51pin が "H"(3V-5V) となっていますか？ TV を接続している状態で、TV を接続している側の IC の電圧を確認してください。 — NO → **HDMI コネクター (JK1004) から IC(IC1009) までのパターンおよび回路が不良です。**

↓ YES

DVD プレーヤーと本機間の HDMI/DVI ケーブルを取り外した時、TV に本機の壁紙の画像が表示されますか？ — NO → 他の Monitor Out(VIDEO out/S-VIDEO out/Component out) からは出力されますか？ — YES → **HDMI 出力系の回路が不良です。(IC1009/IC1010 周辺回路)**

↓ YES — NO

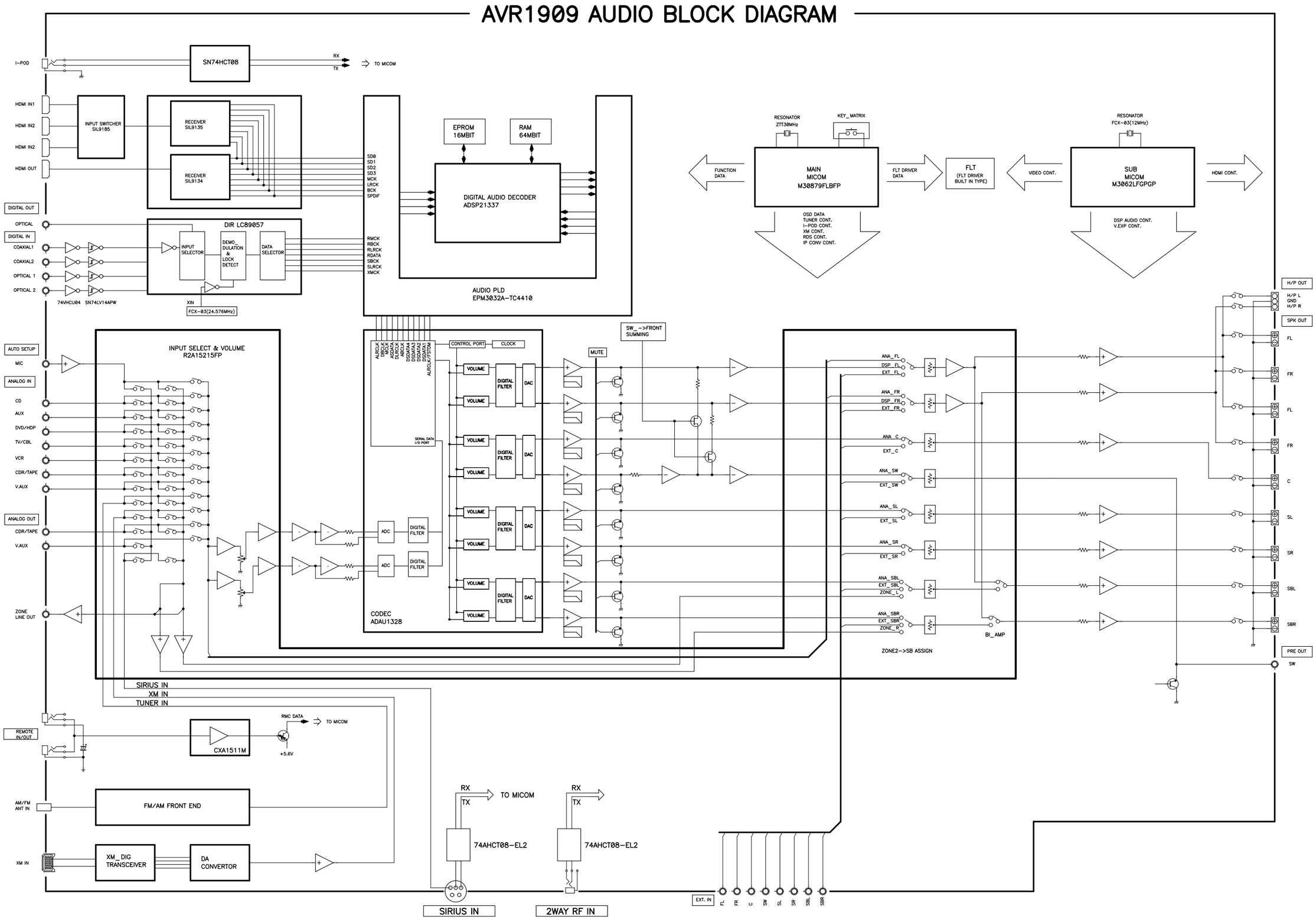
DENON の DVD プレーヤーを使用している場合、FL 管の"HDMI"インジケータが点灯していますか？ 他社の DVD プレーヤーを使用している場合は "NO" に進んでください。 — NO → **DVD プレーヤーが本機との接続を認識していません** HDMI コネクター (JK1001/JK1002/JK1003) の 19pin が "H"(5V) となっていますか？ DVD プレーヤーを接続している状態で、DVD プレーヤーを接続している入力の HDMI コネクターの電圧を確認してください。 — NO → **HDMI コネクター (JK1001/JK1002/JK1003) から IC1045 までのパターンおよび回路が不良です。**

↓ YES

HDMI 入力系の回路が不良です。(IC1002/IC1008/IC1010 周辺回路)

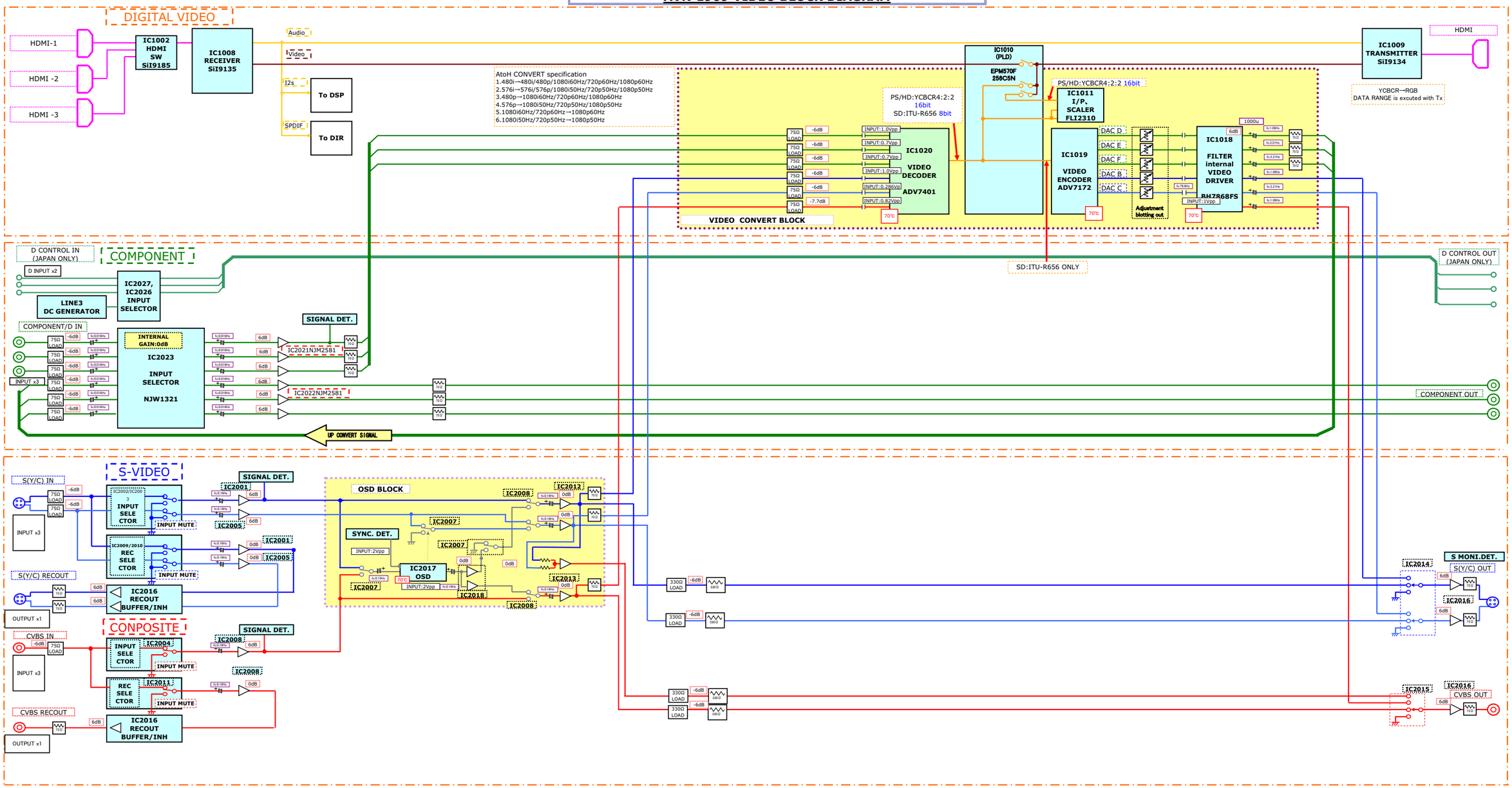
BLOCK DIAGRAM

AUDIO BLOCK DIAGRAM



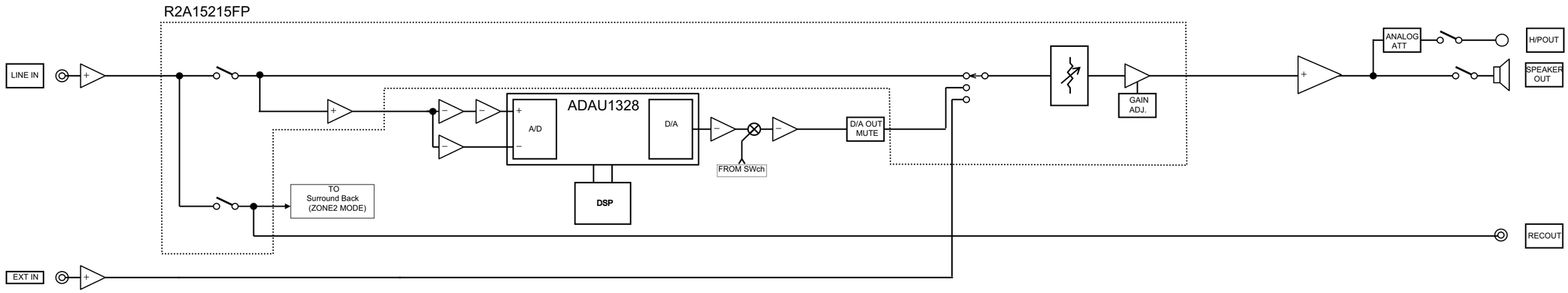
VIDEO BLOCK DIAGRAM

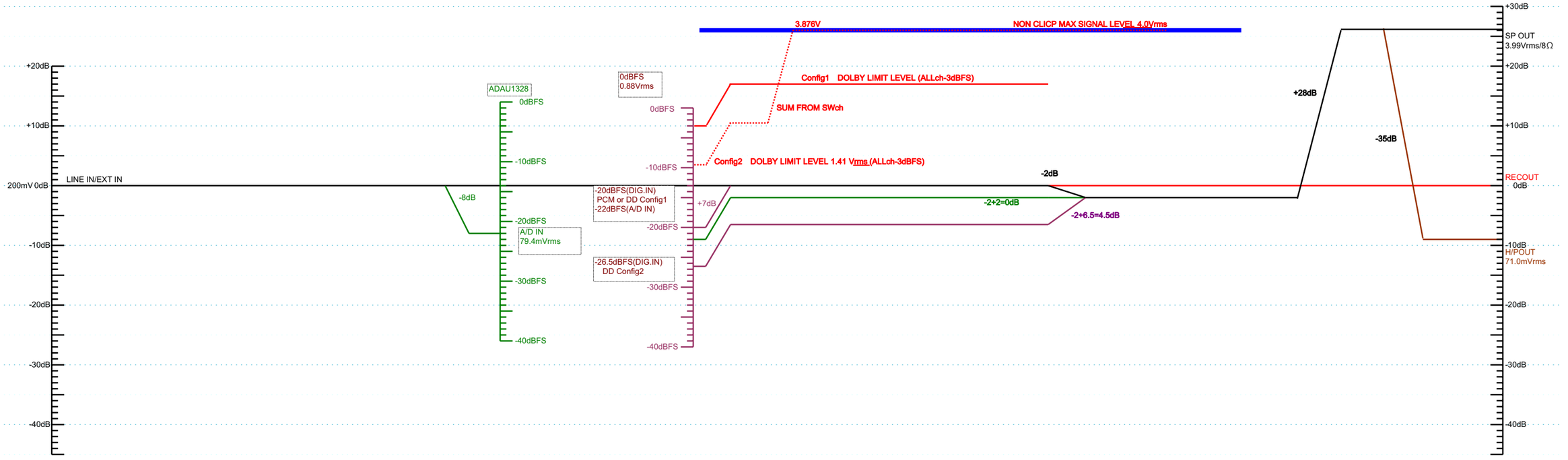
AVR-1909 VIDEO BLOCK DIAGRAM



LEVEL DIAGRAMS (1/5)
FRONT LEVEL DIAGRAM

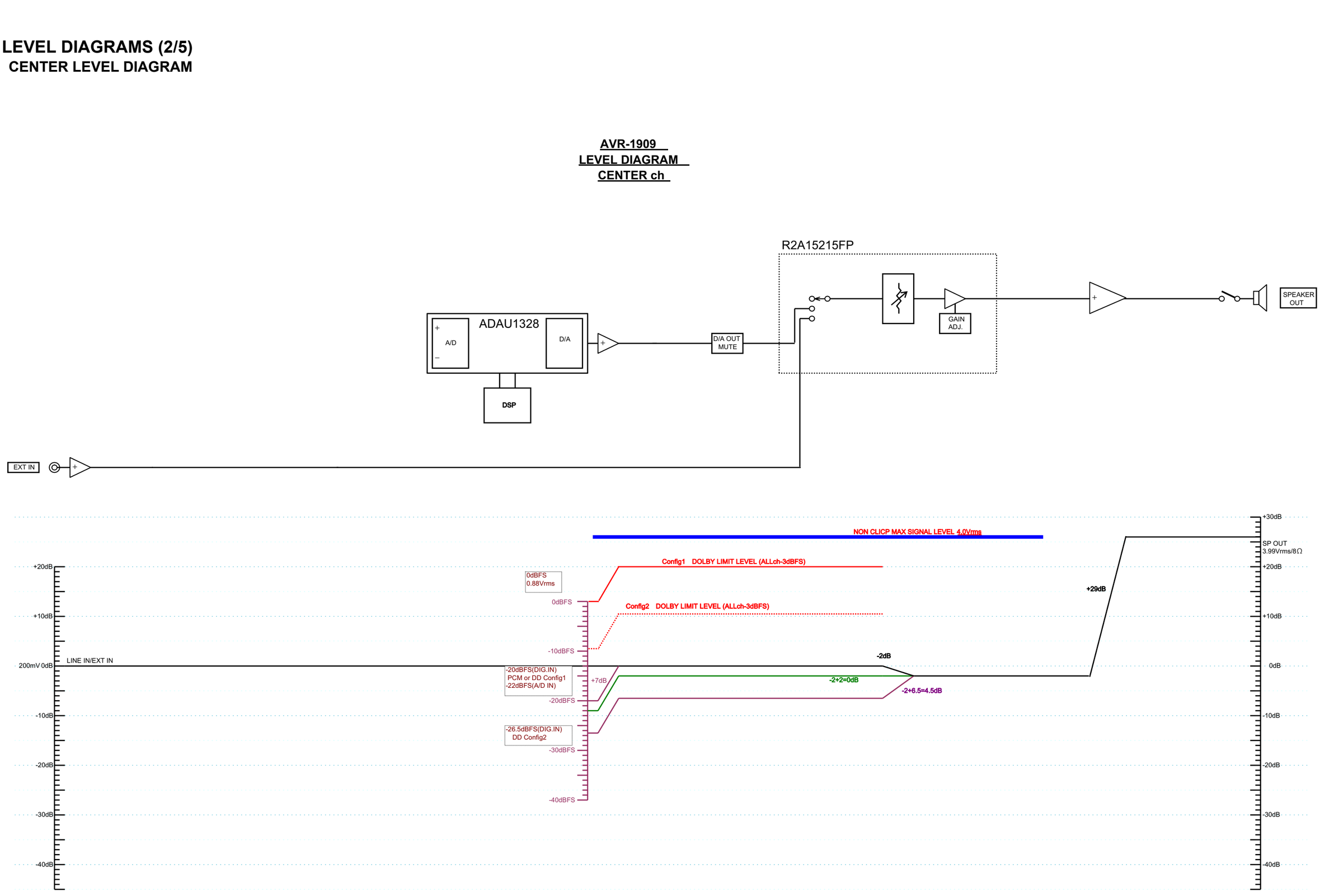
AVR-1909
LEVEL DIAGRAM
FRONT ch





LEVEL DIAGRAMS (2/5)
CENTER LEVEL DIAGRAM

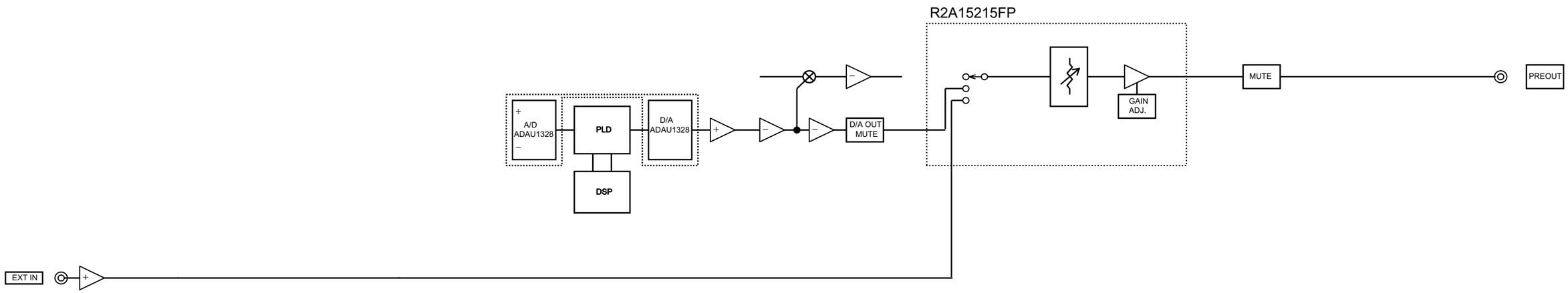
AVR-1909
LEVEL DIAGRAM
CENTER ch

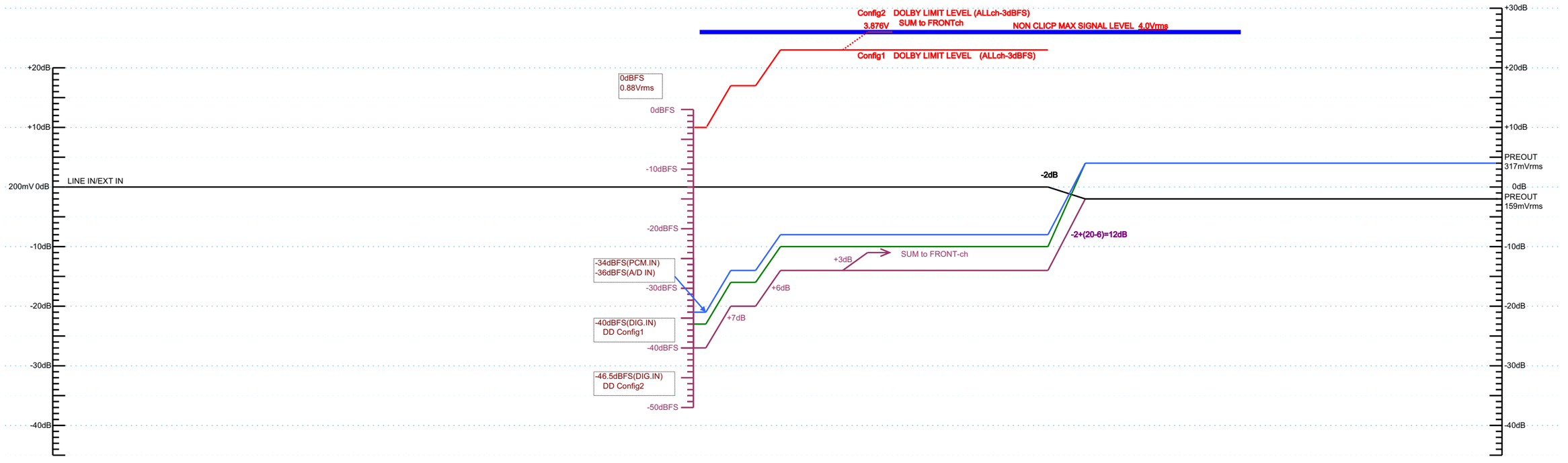


LEVEL DIAGRAMS (3/5)

SUB WOOFER LEVEL DIAGRAM

AVR-1909
LEVEL DIAGRAM
SUBWOOFER ch

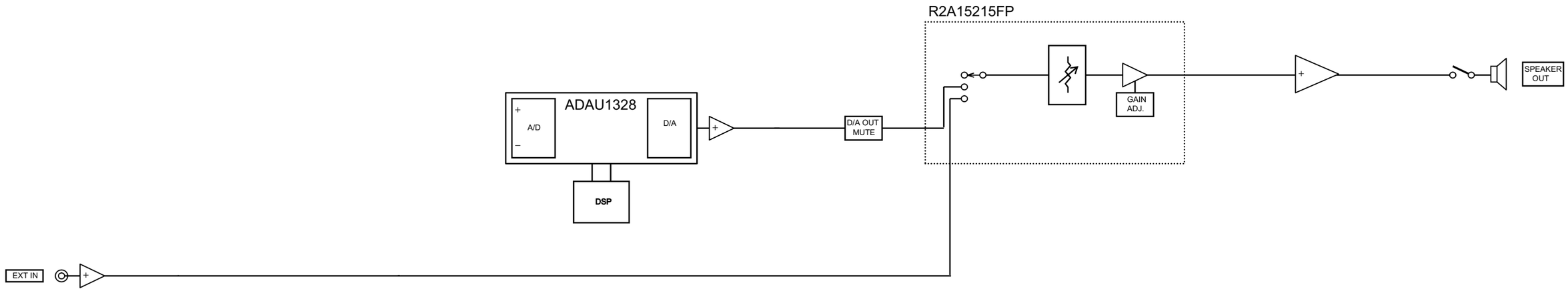


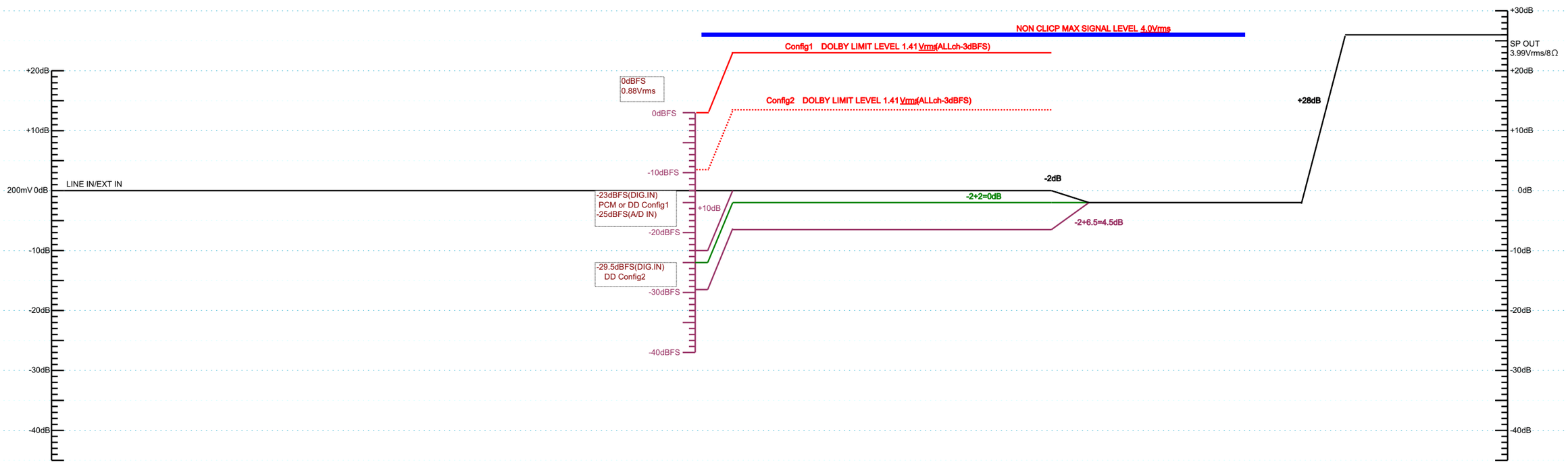


LEVEL DIAGRAMS (4/5)

SURROUND LEVEL DIAGRAM

AVR-1909
LEVEL DIAGRAM
SURROUND ch

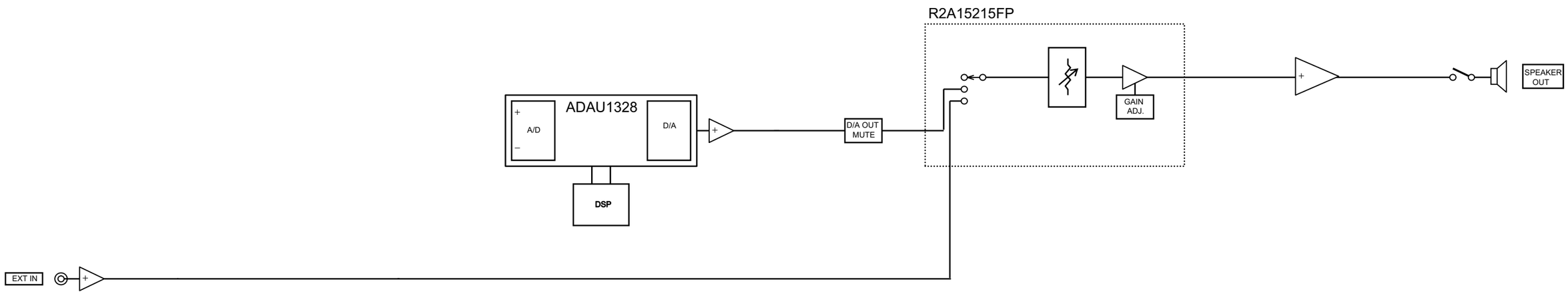


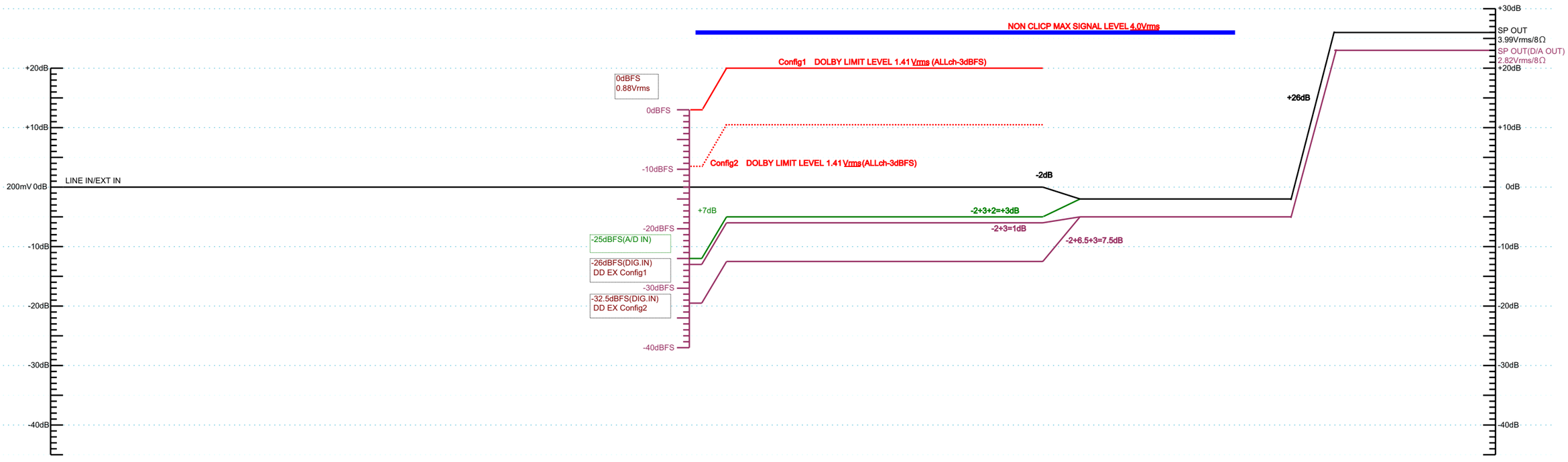


LEVEL DIAGRAMS (5/5)

SURROUND BACK LEVEL DIAGRAM

AVR-1909
LEVEL DIAGRAM
SURR.BACK ch



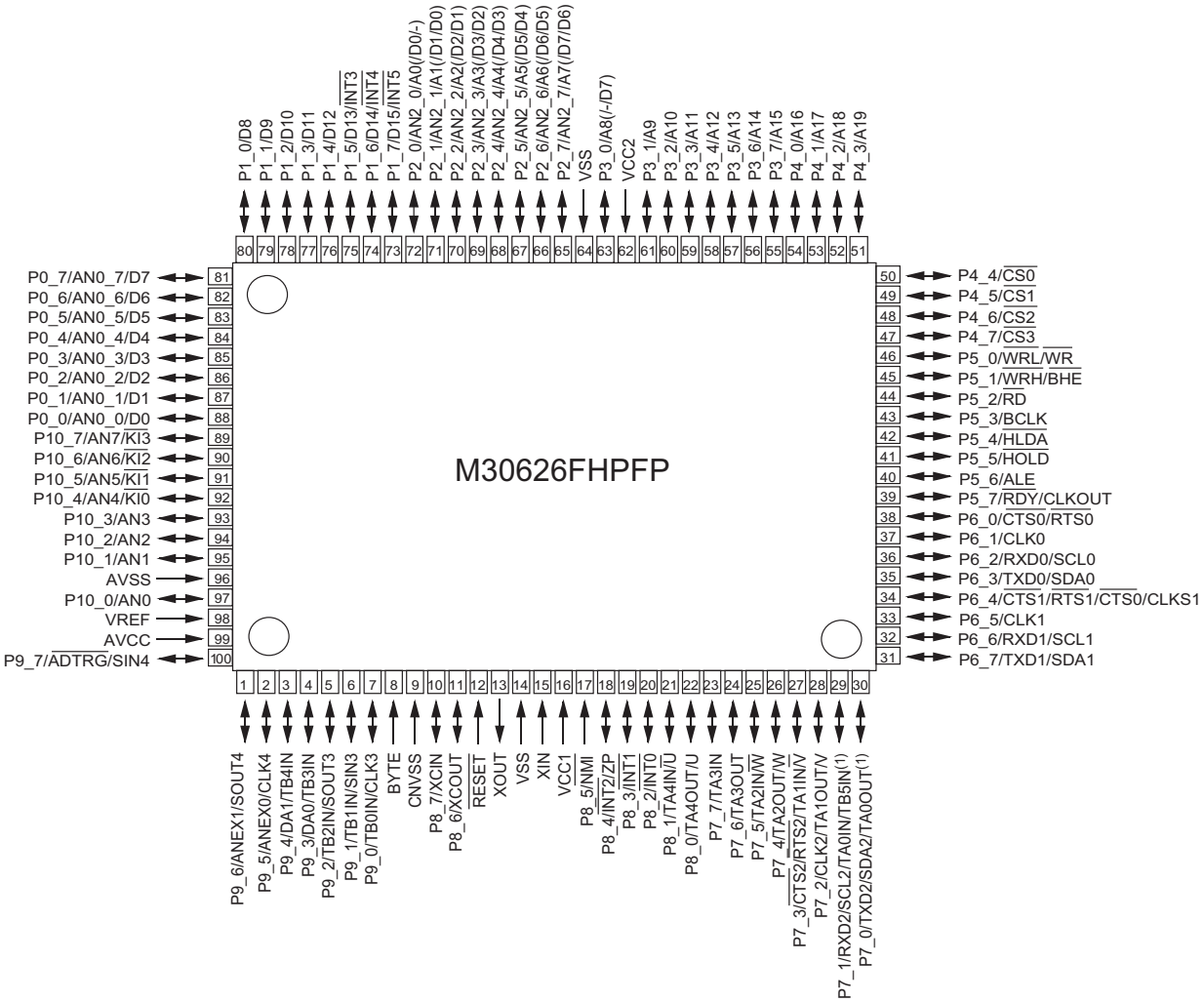


SEMICONDUCTORS

Only major semiconductors are shown, general semiconductors etc. are omitted to list.
主な半導体を記載しています。汎用の半導体は記載を省略しています。

1. IC's

M30879FLBFP (IC802)



NOTES:

1. P7_0 and P7_1 are N channel open-drain output pins.

M30879FLBFP Terminal Function

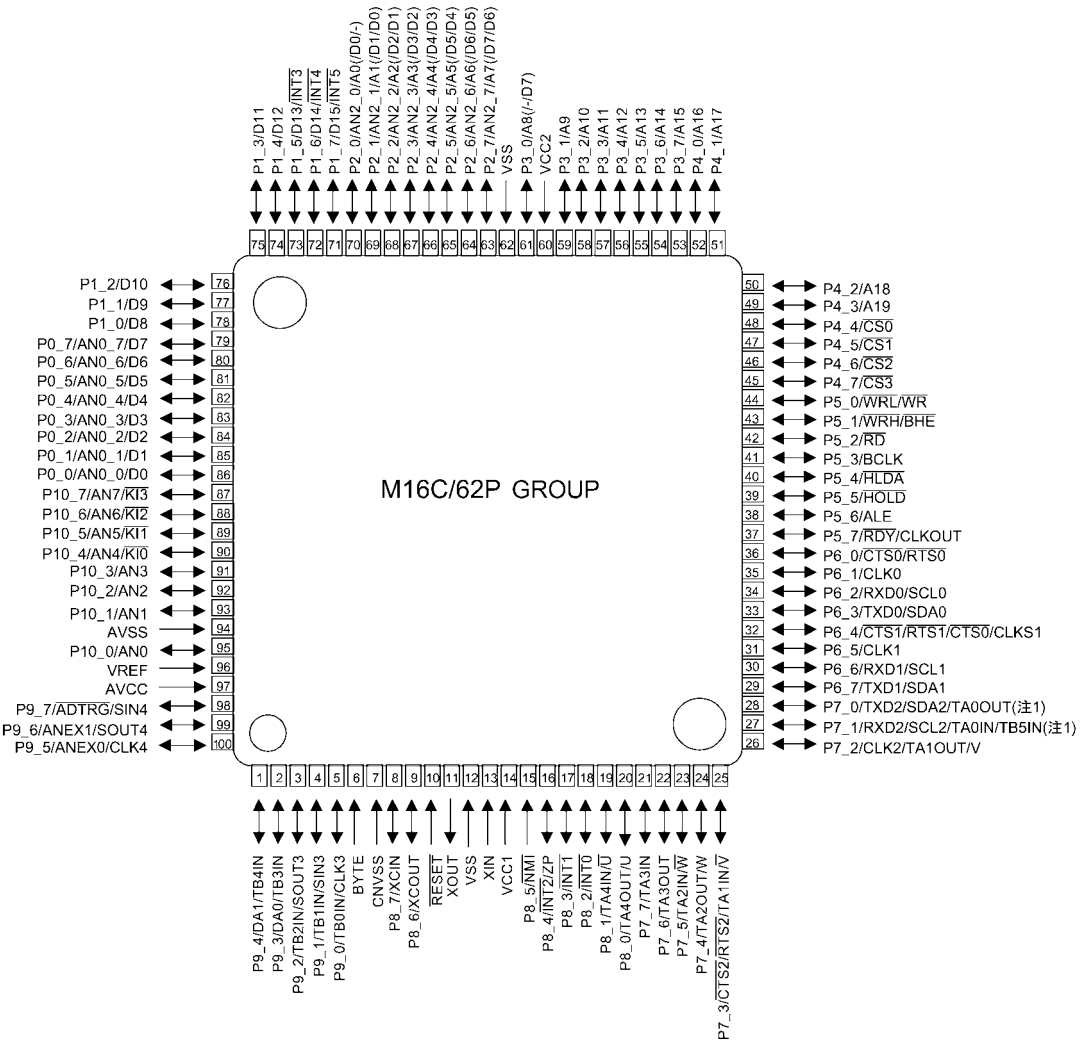
Pin	Pin Name	Symbol	I/O	Type	Det	Op (Int.)	Op (Ext.)	Res	Stby	Stop	Function
1	P96/TXD4	SIRIUS TXD	O	C	-	-	-	Z	O/L	O/L	SIRIUS control pin
2	P95/CLK4	MICDET	I	-	Lv	-	Eu	Z	O/L	O/L	Microphone detect input (Detected : H)
3	P94/TB4	H/PDET	I	-	Lv	-	Eu	Z	O/L	O/L	HEADPHONE detect input (Detected : H)
4	P93/TB3	FL_DATA	O	C		-	-	Z	O/L	O/L	FLD DRIVER control pin
5	P92/ SOUT3	MOSI	O	C	-	-	Ed	Z	O/L	O/L	MAIN-SUB μcom comm. control pin
6	P91/SIN3	SOMIm	I	-	Lv	-	-	Z	I	O/L	MAIN-SUB μcom comm. control pin
7	P90/CLK3	CLKMO	O	C	-	-	Ed	Z	O/L	O/L	MAIN-SUB μcom comm. control pin
8	BYTE	BYTE	I	-	-	-	-	-	-	-	MAIN-SUB μcom comm. control pin
9	CNVCS	CNVSS	I	-	-	-	Ed	Z	I	I	UP GRADE PIN
10	P87	FL_RST	O	C		-	-	Z	O/L	O/L	FLD DRIVER Reset control pin
11	P86	GRNLED	O	C	-	-	-	Z	O/L	O/L	STBYLED GREEN control pin
12	RESET	$\overline{\text{RESET}}$	I	-	Lv	-	Eu	L	I	I	u-COM RESET SIGNAL INPUT
13	XOUT	XOUT	O	-	-	-	-	-	O/L	O/L	OSILATOR CONNECTION
14	VSS	VSS	-	-	-	-	-	-	-	-	GND
15	XIN	XIN	I	-	-	-	-	-	I	I	OSILATOR CONNECTION

Pin	Pin Name	Symbol	I/O	Type	Det	Op (Int.)	Op (Ext.)	Res	Stby	Stop	Function
16	VCC	VCC	-	-	-	-	-	-	-	-	POWER 5V
17	P85/NMI	NMI	I	-	-	-	-	-	-	-	5V
18	P84/INT2	$\overline{\text{PROTECTION}}$	I	-	E ↓ &L	-	Eu	Z	I	I	PROTECTION SIGNAL INPUT
19	P83/INT1	$\overline{\text{POWERKEY}}$	I	-	Lv	-	Eu	Z	I	I	MAIN POWER relay control output
20	P82/INT0	REMOTEDET	I	-	Lv	-	Ed	Z	O/L	O/L	ROOM TO ROOM Signal detect pin (Detected : H)
21	P81	ISELB	I	-	-	-	Eu	Z	O/L	O/L	Input selector rotation detect input (Rotary encoder)
22	P80	VSELA	I	-	-	-	Eu	Z	O/L	O/L	Master Volume rotation detect input (Rotary encoder)
23	P77	SSELA	I	-	-	-	Eu	Z	O/L	O/L	Selector rotation detect input (Rotary encoder)
24	P76	-	O	C	-	-	-	Z	O/L	O/L	Not used
25	P75	HD AUDIO LED	O	C	-	-	-	Z	O/L	O/L	HD AUDIO LED control
26	P74	SSELB	I	-	-	-	Eu	Z	O/L	O/L	Selector rotation detect input (Rotary encoder)
27	P73/CTS2	VOLDATA	O	C	-	-	-	Z	O/L	O/L	Volume control pin
28	P72/CLK2	VOLCLK	O	C	-	-	-	Z	O/L	O/L	Volume control pin
29	P71/RXD2	RXDMIXO	I	-	-	-	Ed	Z	I	O/L	XM RADIO control pin
30	P70/TXD2	TXDMOXMI	O	N	-	-	Eu	Z	O/L	O/L	XM RADIO control pin
31	P67/TXD1	MO232CI	O	C	-	-	-	Z	O/L	O/L	RS232C SIGNAL OUTPUT
32	P66/RXD1	MI232CO	I	-	-	-	Ed	Z	I	O/L	RS232C SIGNAL INPUT
33	P65/CLK1	EXPCLK	O	C	-	-	-	Z	O/L	O/L	Extended IC control pin
34	P64/CTS1	EXPDATA	O	C	-	-	-	Z	O/L	O/L	Extended IC control pin
35	P63/TXD0	MOIPI	O	C	-	-	-	Z	O/L	O/L	iPod control pin
36	P62/RXD0	MIIPO	I	-	-	-	Ed	Z	I	O/L	iPod control pin
37	P61/CLK0	VSELB	I	-	-	-	Eu	Z	O/L	O/L	Master Volume rotation detect input (Rotary encoder)
38	P60/CTS0	ISELA	I	-	-	-	Eu	Z	O/L	O/L	Input selector rotation detect input (Rotary encoder)
39	P57	REDLED	O	C	-	-	-	Z	O/H	O/L	STBY LED RED CONTROL
40	P56	FL_CE1	O	C		-	-	Z	O/L	O/L	FLD DRIVER control pin
41	P55/EPM	FRASH CE/FL_CLK	O	C	-	-	-	Z	O/L	O/L	Rewrite boot program start : L input set /FLD DRIVER control pin
42	P54	M232CPOWER	O	C	-	-	Ed	Z	O/L	O/L	RS232C POWER control pin (STANDBY:H)
43	P53	DYN GRN LED	O	C	-	-	-	Z	O/L	O/L	DYNAMIC VOLUME LED GREEN control
44	P52	DYN RED LED	O	C	-	-	-	Z	O/L	O/L	DYNAMIC VOLUME LED RED control
45	P51	TRIGGER1	O	C	-	-	-	Z	O/L	O/L	TRIGGER OUT 1 control pin
46	P50/CE	FRASH CE	O	C	-	-	-	Z	O/L	O/L	Rewrite boot program start : H input set
47	P47	RDSDOUT	I	-	-	-	Eu	Z	O/L	O/L	RDS DETECT IN control pin
48	P46	TURDSCLK(CKTU)	O	C	-	-	-	Z	O/L	O/L	TUNER/RDS CLOCK OUT
49	P45	TURDSDATA(DATATU)	O	C	-	-	-	Z	O/L	O/L	TUNER/RDS DATA OUT control pin
50	P44	RDSCE	O	C	-	-	-	Z	O/L	O/L	RDS Chip enable
51	P43	RDSRST	O	C	-	-	-	Z	O/L	O/L	RDS reset output
52	P42	$\overline{\text{THERMAL}}$	I	-	-	-	Ed	Z	O/L	O/L	Temperature detect
53	P41	EXPOE	O	C	-	-	-	Z	O/L	O/L	Extended IC control pin
54	P40	EXPSTB	O	C	-	-	-	Z	O/L	O/L	Extended IC control pin
55	P37	TUDOUT(DATAOUT)	I	-	Lv	-	Ed	Z	O/L	O/L	TUNING DATA INPUT control pin
56	P36	TUSTB	O	C	-	-	-	Z	O/L	O/L	TUNER STB OUT
57	P35	STEREO	I	-	Lv	-	Eu	Z	O/L	O/L	When TUNER FM stereo receive : L
58	P34	TUNED	I	-	Lv	-	Eu	Z	O/L	O/L	TUNER turned detect (Detected : L)
59	P33	IPDET	I	-	Lv	-	Eu	Z	O/L	O/L	MINI JACK connected detection pin for DOCK connection (H:DETECTIVE)
60	P32	REMOTEPOWER	O	C	-	-	-	Z	O/L	O/L	REMOTE POWER control pin (ON : H)
61	P31	232C CONTROL	O	C	-	-	Ed	Z	O/L	O/L	232C control pin (MAIN : L / SUB : H)
62	VCC	VCC	-	-	-	-	-	-	-	-	+5V
63	P30	$\overline{\text{VOLPROTECT}}$	I	-	E ↑ &H	-	Eu	Z	O/L	O/L	Voltage detection control pin
64	VSS	VSS	-	-	-	-	-	-	-	-	GND
65	P27	PRE POWER	O	C	-	-	-	Z	O/L	O/L	PRE POWER control pin (H : ON)
66	P26	SCPUPOWER	O	C	-	-	-	Z	O/L	O/L	SUB CPU POWER ON/OFF switcing (H : ON)
67	P25	XMPOWER	O	C	-	-	-	Z	O/L	O/L	XM RADIO POWER control pin
68	P24	POWER	O	C	-	-	Ed	Z	O/L	O/L	MAIN POWER relay control output (ON : H)
69	P23	CPU/EPOWER	O	C	-	-	Ed	Z	O/L	O/L	MAIN CPU POWER control pin (POWER ON : H)
70	P22	LIMIT	O	C	-	-	-	Z	O/L	O/L	LIMIT control
71	P21	-	O	C	-	-	-	Z	O/L	O/L	Not used
72	P20	-	O	C	-	-	-	Z	O/L	O/L	Not used
73	P17/INT5	REMOCOM	I	-	E ↑ &H	-	Ed	Z	I	I	Remote control signal input
74	P16/INT4	REQSOMIm	I	-	E ↓ &L	-	Ed	Z	I	O/L	MAIN-SUB Épcom comm. control pin
75	P15/INT3	$\overline{\text{B.DOWN}}$	I	-	E ↓ &L	-	Eu	Z	I	I	Power down detect (Power down : L)
76	P14/D12	RST SUB	O	C	-	-	-	Z	O/L	O/L	SUB μcom Reset control pin

Pin	Pin Name	Symbol	I/O	Type	Det	Op (Int.)	Op (Ext.)	Res	Stby	Stop	Function
77	P13/D11	LIMITDET	I	-	Lv	-	Eu	Z	O/L	O/L	Signal detect input (Detected : H)
78	P12/D10	-	O	C	-	-	Ed		O/L	O/L	Not used
79	P11/D9	-	O	C	-	-	-	-	O/L	O/L	Not used
80	P10/D8	VOLMUTE	O	C	-	-	-	Z	O/L	O/L	VOLUME MUTE control pin
81	P07/D7	MUTEPOWER	O	C	-	-	-	Z	O/L	O/L	For MUTE +B control pin
82	P06/D6	SYNCDET	I	-	Lv	-	Ed	Z	O/L	O/L	Sync. detect input for MAIN(H: Ext. synchronized)
83	P05/D5	OSDMUTE	O	C	-	-	-	Z	O/L	O/L	OSD control pin
84	P04/D4	-	O	C	-	-	-	Z	O/L	O/L	Not used
85	P03/D3	OSDRST	O	C	-	-	-	Z	O/L	O/L	OSD control pin
86	P02/D2	OSDSTR	O	C	-	-	-	Z	O/L	O/L	OSD control pin
87	P01/D1	OSDCLK	O	C	-	-	-	Z	O/L	O/L	OSD control pin
88	P00/D0	OSDDATA	O	C	-	-	-	Z	O/L	O/L	OSD control pin
89	P103/AN3	KEY1	I	-	Lv	-	Eu	Z	O/L	O/L	KEY1 SIGNAL INPUT
90	P102/AN2	KEY2	I	-	Lv	-	Eu	Z	O/L	O/L	KEY2 SIGNAL INPUT
91	P101/AN1	KEY3	I	-	Lv	-	Eu	Z	O/L	O/L	KEY3 SIGNAL INPUT
92	P104/AN4	ACKSUB	O	C	-	-	Ed	Z	O/L	O/L	MAIN-SUB μcom comm. control pin
93	P107/AN7	XMOLINKACTIVE	I	-	-	-	Ed	Z	O/L	O/L	XM RADIO control pin
94	P106/AN6	XMOANTREV	I	-	E ↓ &L	-	Ed	Z	O/L	O/L	XM RADIO control pin
95	P105/AN5	XMIRESET	O	C	-	-	Eu	Z	O/L	O/L	XM RADIO RESET control pin
96	AVSS	AVSS	-	-	-	-	-	-	-	-	GND
97	P100/AN0	SET_OPTION	I	-	Lv	-	-	Z	O/L	O/L	SET OPTION SELECT
98	VREF	VREF	-	-	-	-	-	-	-	-	VREF
99	AVCC	AVCC	-	-	-	-	-	-	-	-	POWER 5V
100	P97/RXD4	SIRIUS RXD	I	-	-	-	Ed	Z	O/L	O/L	SIRIUS control pin

Note: Pin No. : Terminal number of microcomputer.
Port Name : The name entered in the data sheet of microcomputer.
Symbol : Symbolized interface function.
I/O : Input or out of part.
"I" = Input port
"O" = Output port
Type : Composition of port in case of output port.
"C" = CMOS output
"N" = NMOS open drain output
"P" = PMOS open drain output
Op : Pull up/Pull down selection information.
"Iu" = Inner microcomputer pull up
"Id" = Inner microcomputer pull down
"Eu" = External microcomputer pull up
"Ed" = External microcomputer pull down
Det : Indicates judging state of input port. Level detection is "LV"; Edge detection is "Ed"; Detection by both shifting is "E&L"; Serial data detection is "S" (Serial data output is also "S").
Res : State at reset.
"H" = Outputs High Level at reset
"L" = Outputs Low Level at reset
"Z" = Becomes High impedance mode at reset
STBY : State of port when STANDBY mode.
"O/L" = Output port and "L"
"I" = Input port
Stop : State of port when Stop mode.
"O/L" = Output port and "L"
"I" = Input port

M3062LFGPGP (IC1405)



M3062LFGPGP Terminal Function

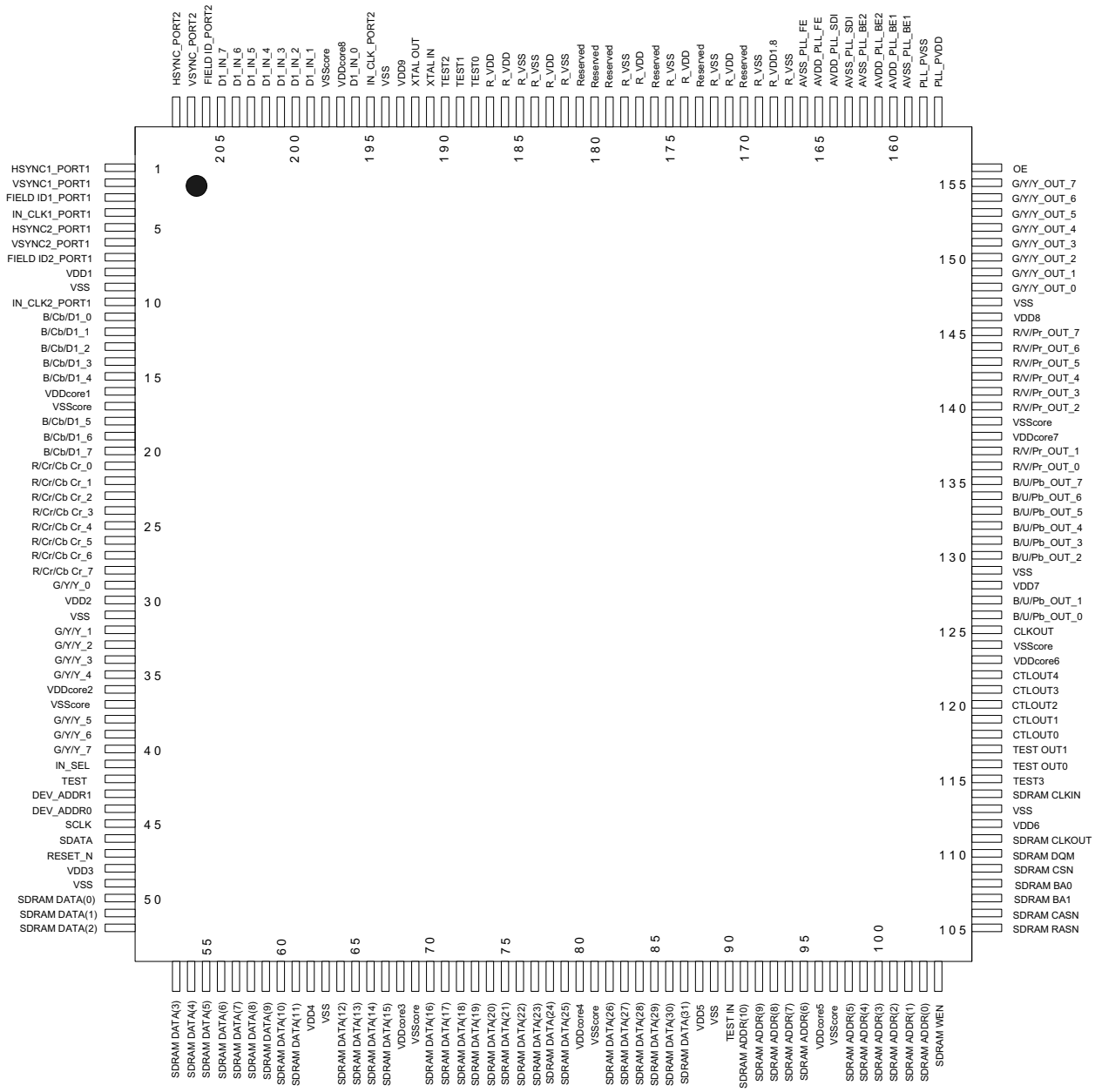
Pin	Pin Name	Symbol	I/O	Type	Det	Op (Int.)	Op (Ext.)	Res	Function
1	P94/TB4	VPLD DATA	O	C	-	-	-	Z	VIDEO PLD control pin
2	P93/TB3	DIR CE	O	C	-	-	-	Z	DIR control pin(LC89057W-VF4A)
3	P92/SOUT3	DIR DIN	O	C	-	-	-	Z	DIR control pin(LC89057W-VF4A)
4	P91/SIN3	DIR DOUT	I	-	Lv	-	Eu	Z	DIR control pin(LC89057W-VF4A)
5	P90/CLK3	DIR CLK	O	C	-	-	-	Z	DIR control pin(LC89057W-VF4A)
6	BYTE	BYTE	-	-	-	-	-	-	GND(Ext. data bus bit width switching, 16bit:L)
7	CNVCS	CNVSS	-	-	-	-	-	-	Single-chip/Micro-processor mode switching(Normal single-chip:L, Rewrite boot program start:H input set)
8	P87	VERST	O	C	-	-	Eu	Z	Reset for VIDEO ENCODER(ADV7172)
9	P86	VDRST	O	C	-	-	Eu	Z	Reset for VIDEO DECODER(ADV7401)
10	RESET	$\overline{\text{SUBRESET}}$	I	-	Lv	-	Eu	L	Reset input
11	XOUT	X1	O	-	-	-	-	-	Oscillator connection
12	VSS	VSS	-	-	-	-	-	-	GND
13	XIN	X2	I	-	-	-	-	-	Oscillator connection
14	VCC	VCC	-	-	-		-	-	+3.3V
15	P85/NMI	NMI	I	-	-	-	-	-	Not used(Fixed to H)
16	P84/INT2	CEC_IN	I	-	E ↓ &L	-	Eu	Z	CEC-D signal input pin
17	P83/INT1	ACKSIMO	I	-	E ↓ &L	-	Ed	Z	MAIN-SUB μcom comm. control input pin("L" return from MAIN μcom)
18	P82/INT0	$\overline{\text{SUB BDOWN}}$	I	-	E ↓ &L		Eu	Z	Power down detect(Power down:L)
19	P81	IP RST	O	C	-	-	-	Z	IP CONV(FLI2310) reset
20	P80	-	I	-	-	-	Ed	Z	Not used
21	P77	SICODECO	I	-	-	-	-	Z	CODEC (ADAU1328) control pin
22	P76	CPU_MUTE/TMS	O	C	-	-	-	Z	MAIN PLD DAC MUTE control pin/PLD rewrite control(JTAG)
23	P75	APLDSEL1/TDI	O	C	-	-	-	Z	MAIN PLD control pin/PLD rewrite control(JTAG)

Pin	Pin Name	Symbol	I/O	Type	Det	Op (Int.)	Op (Ext.)	Res	Function
24	P74	MTCK	O	C	-	-	-	Z	PLD rewrite control(JTAG)
25	P73/CTS2	VIDEO_POWER	O	C	-	-	-	Z	VIDEO Power ON/OFF switching(H:ON)
26	P72/CLK2	DAC_POWER	O	C	-	-	Ed	Z	DIGITAL Power ON/OFF switching(H:ON)
27	P71/RXD2	VSCL	I/O	N	-	-	Eu	Z	VIDEO I2C- IP CONV(FLI2310)/V_ENCODER(ADV7172)/ V_DECODER(ADV7401)/COMPONENT SELECT IC(NJW1321FP1) control IC
28	P70/TXD2	VSDA	I/O	N	-	-	Eu	Z	VIDEO I2C- IP CONV(FLI2310)/V_ENCODER(ADV7172)/ V_DECODER(ADV7401)/COMPONENT SELECT IC(NJW1321FP1) control IC
29	P67/TXD1	TXD	O	C	-	-	Eu	Z	Data transmission output to outside
30	P66/RXD1	RXD	I	-	Lv	-	Eu	Z	Data transmission input from outside
31	P65/CLK1	SW SUM	O	C	-	-	Ed	Z	Additional instructions to Front of an SW signal(H:ON)
32	P64/CTS1	HDMIPOWER	O	C	-	-		Z	HDMI POWER control pin(H:ON)
33	P63/TXD0	SOMI	O	C	-	-	-	Z	MAIN-SUB μcom comm. control pin
34	P62/RXD0	SIMO	I	-	-	-	Ed	Z	MAIN-SUB μcom comm. control pin
35	P61/CLK0	CLKSIMO	I	-	-	-	Ed	Z	MAIN-SUB μcom comm. control pin
36	P60/CTS0	REQSOMI	O	C	-	-	Ed	Z	MAIN-SUB μcom comm. control pin
37	P57	1TMDSSWRST	O	C	-	-	-	Z	Sil9185 Reset pin
38	P56	HDP2	O	C	-	-	-	Z	HD DET control pin
39	P55/EPM	ADPDOWN/AUTH	I	C	-	-	Ed	Z	Rewrite boot program start : L input set
40	P54	CEC_OUT	O	C	-	-	-	Z	CEC-D signal output pin
41	P53	MONIDIS	O	C		-	-	Z	COMPONENT MONITOR OUT output control pin
42	P52	VCR2INH (CDR)	O	C	-	-	-	Z	Not used
43	P51	VCR1INH (VCR)	O	C	-	-	-	Z	VCR1OUT output INH control (L:MUTE)
44	P50/CE	WP4/(AVMUTE)	O/I	-	-	-	Eu	Z	Write Protect control / Rerite boot program start : H input set
45	P47	HS_INT	I	-	E ↓ &L	-	Eu	Z	HDMI IN SEL(Sil9185) INT output
46	P46	DSPPWR	O	C	-	-	Ed	Z	H:DSP Power ON
47	P45	HDP1	O	C	-	-	Ed	Z	HP DET control pin
48	P44	P.SAVE	O	-	-	-	Ed	Z	COMPONENT CONVERT output control pin
49	P43	HRINT	I	C	E ↓ &L	-	-	Z	HDMI RECEIVER(Sil9031)INT output
50	P42	HSCL/EDID SCL	I/O	C	-	-	Eu	Z	VIDEO I2C/HDMI EDIT(E2PROM) control pin
51	P41	HSDA/EDID SDA	I/O	C	-	-	Eu	Z	VIDEO I2C/HDMI EDIT(E2PROM) control pin
52	P40	Z1SMONIA	O	C	-	-		Z	Z1 SMONITOR select
53	P37	HDMIR_RST	O	C	-	-	Eu	Z	Reset for HDMI RECEIVER(Sil9135)
54	P36	1HTRST	O	C	-	-	Eu	Z	Reset for HDMI TRANSMITTER1
55	P35	Z1SMONIB	O	C	-	-	Ed	Z	Z1 SMONITOR select
56	P34	1HTINT	I	-	Lv	-	.	Z	HDMI OUT signal detect input(HDMI TRANS1 Sil9134)
57	P33	PAL/NTSC	O	-	-	-	Ed	Z	Not used
58	P32	SOCODECI	O	C	-	-	-	Z	CODEC (ADAU1328) control pin
59	P31	CLKCODEC	O	C	-	-	-	Z	CODEC (ADAU1328) control pin
60	VCC	VCC	-	-	-	-	-	-	+3.3V
61	P30	CECODEC	O	C	-	-	-	Z	CODEC (ADAU1328) control pin
62	VSS	VSS	-	-	-	-	-	-	GND
63	P27	CODECRST	O	C	-	-	-	Z	CODEC (ADAU1328) control pin
64	P26	XMDACRST	O	C	-	-	-	Z	XMDAC control pin (AK4385)
65	P25	XMDACCS	O	C	-	-	-	Z	XMDAC control pin (AK4385)
66	P24	XMDACMC	O	C	-	-	-	Z	XMDAC control pin (AK4385)
67	P23	XMDACMDI	O	C	-	-	-	Z	XMDAC control pin (AK4385)
68	P22	VEXPSTB	O	C	-	-	-	Z	Terminal output for VIDEO expander control(BU4094BCFV)
69	P21	VEXPOE	O	C	-	-	Ed	Z	Terminal output for VIDEO expander control(BU4094BCFV)
70	P20	VEXPCLK	O	C	-	-	-	Z	CLK output for VIDEO expander control(BU4094BCFV)
71	P17/INT5	VEXPDIN	O	C	-	-	-	Z	DATA output for VIDEO expander control(BU4094BCFV)
72	P16/INT4	COMPSDET	I	-	Lv	-	Eu	Z	COMPONENT IN signal detect input
73	P15/INT3	Z1VSIG.DET	I	-	Lv	-	Eu	Z	VIDEO IN signal detect input (Signal inputted : H)
74	P14/D12	Z1SMONIDET	I	-	-	-	Eu	Z	S MONITER connection existence detection input (connected:L)
75	P13/D11	Z1SSIGDET	I	-	-	-	Eu	Z	S signal detect input (signal inputted:H)
76	P12/D10	SYNCDET	I	-	Lv	-	-	Z	SyncDet pin
77	P11/D9	CPUCONT	O	C	-	-	-	-	A.PLD Control Bit
78	P10/D8	D.POWER	O	C	-	-	Ed	Z	Digital Power ON/OFF control pin
79	P07/D7	PLDWRITE	O	C	-	-	-	Z	PLD JTAGLINE ON/OFF control
80	P06/D6	VPLDCE/TDO	O/I	-	-	-	Ed	Z	VIDEO PLD control pin/PLD rewrite control (JTAG)
81	P05/D5	HDP3	O	C	-	-	-	Z	HP DET control pin
82	P04/D4	HDP4	O	C	-	-	-	Z	HP DET control pin
83	P03/D3	INT1	I	-	Lv	-	Eu	Z	DIR1 control pin
84	P02/D2	INT2	O	C	-	-	-	Z	Not used
85	P01/D1	DIRRST2	O	C	-	-	-	Z	Not used
86	P00/D0	DIRRST1	O	C	-	-	-	Z	DIR1 control pin

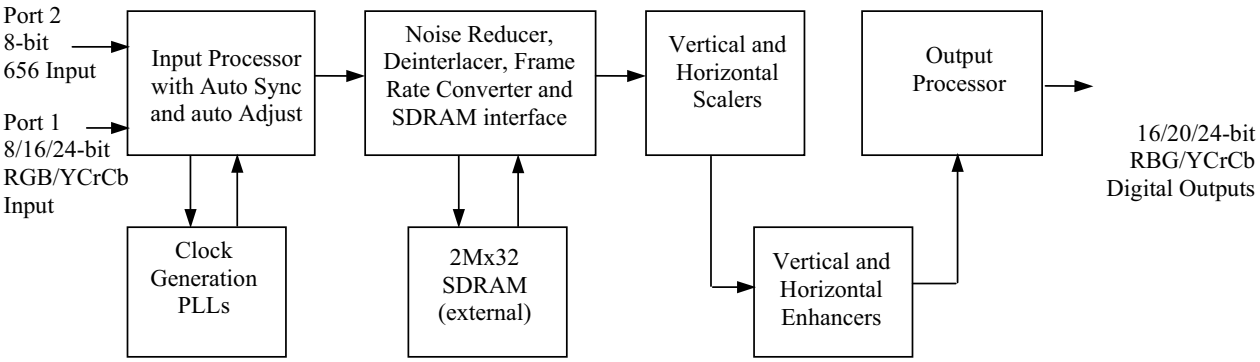
Pin	Pin Name	Symbol	I/O	Type	Det	Op (Int.)	Op (Ext.)	Res	Function
87	P107/AN7	DSPRST	O	C	-	-	-	Z	DSP (ADSP-21367) reset output pin (reset:L)
88	P106/AN6	-	O	C	-	-	-	Z	Not used
89	P105/AN5	DSPROMRST	O	C	-	-	Ed	Z	DSP memory reset(reset:L)
90	P104/AN4	-	O	C	-	-	-	Z	Not used
91	P103/AN3	DSPFLAG0	I	-	Lv	-	Ed	Z	DSP control pin (ADSP-21367)
92	P102/AN2	DSPICS	O	C		-	Eu	Z	DSP control pin (ADSP-21367)
93	P101/AN1	DSP FLAG1	I	-	-	-	-	Z	Not used
94	AVSS	AVSS	-	-	-	-	-	-	AD GND
95	P100/AN0	VPLDCLK	O	-	-	-	-	Z	VIDEO PLD control pin
96	VREF	VREF	-	-	-	-	-	-	AD ref. +3.3V
97	AVCC	AVCC	-	-	-	-	-	-	AD +3.3V
98	P97/SIN4	DSPMISO	I	-	Lv	-	Eu	Z	DSP control pin (ADSP-21367)
99	P96/SOUT4	DSPMOSI	O	C	-	-	Eu	Z	DSP control pin (ADSP-21367)
100	P95/CLK4	DSPICLK	O	C	-	-	Eu	Z	DSP control pin (ADSP-21367)

Note: Pin No. : Terminal number of microcomputer.
Port Name : The name entered in the data sheet of microcomputer.
Symbol : Symbolized interface function.
I/O : Input or out of part.
"I" = Input port
"O" = Output port
Type : Composition of port in case of output port.
"C" = CMOS output
"N" = NMOS open drain output
"P" = PMOS open drain output
Op : Pull up/Pull down selection information.
"Iu" = Inner microcomputer pull up
"Id" = Inner microcomputer pull down
"Eu" = External microcomputer pull up
"Ed" = External microcomputer pull down
Det : Indicates judging state of input port. Level detection is "LV"; Edge detection is "Ed"; Detection by both shifting is "E&L"; Serial data detection is "S" (Serial data output is also "S").
Res : State at reset.
"H" = Outputs High Level at reset
"L" = Outputs Low Level at reset
"Z" = Becomes High impedance mode at reset
STBY : State of port when STANDBY mode.
"O/L" = Output port and "L"
"I" = Input port
Stop : State of port when Stop mode.
"O/L" = Output port and "L"
"I" = Input port

FLI2310 (IC1011)



FLI2310 Block Diagram



FLI2310 Terminal Function

Pin No	Pin Name	I/O Type	Voltage Tolerance	Drive	Pull up/ Pulldown	Description
1	HSYNC1_PORT1	Input	5v			Horizontal sync or reference -CTL1 of Port 1
2	VSYNC1_PORT1	Input	5v			Vertical sync or reference -CTL1 of Port 1
3	FIELD ID1_PORT1	Input	5v			Odd/Even Field identification -CTL1 of Port 1
4	IN_CLK1_PORT1	Input	5v			Data Clock input -CTL1 of Port 1
5	HSYNC2_PORT1	Input	5v			Horizontal sync or reference –CTL2 of Port 1
6	VSYNC2_PORT1	Input	5v			Vertical sync or reference –CTL2 of Port 1
7	FIELD ID2_PORT1	Input	5v			Odd/Even Field identification –CTL2 of Port 1
8	VDD1	Power				3.3 V - Power pin for IO
9	VSS	Ground				Ground
10	IN_CLK2_PORT1	Input	5v			Data Clock input –CTL2 of Port 1
11	B/Cb/D1_0	Input	5v			Port 1 – Digital video input (Blue/Cb/D1)
12	B/Cb/D1_1	Input	5v			Port 1 – Digital video input (Blue/Cb/D1)
13	B/Cb/D1_2	Input	5v			Port 1 – Digital video input (Blue/Cb/D1)
14	B/Cb/D1_3	Input	5v			Port 1 – Digital video input (Blue/Cb/D1)
15	B/Cb/D1_4	Input	5v			Port 1 – Digital video input (Blue/Cb/D1)
16	VDDcore1	Power				1.8 V - Power pin for core
17	VSScore	Ground				Ground
18	B/Cb/D1_5	Input	5v			Port 1 – Digital video input (Blue/Cb/D1)
19	B/Cb/D1_6	Input	5v			Port 1 – Digital video input (Blue/Cb/D1)
20	B/Cb/D1_7	Input	5v			Port 1 – Digital video input (Blue/Cb/D1)
21	R/Cr/Cb Cr_0	Input	5v			Port 1 – Digital video input (Red/Cr/CrCb)
22	R/Cr/Cb Cr_1	Input	5v			Port 1 – Digital video input (Red/Cr/CrCb)
23	R/Cr/Cb Cr_2	Input	5v			Port 1 – Digital video input (Red/Cr/CrCb)
24	R/Cr/Cb Cr_3	Input	5v			Port 1 – Digital video input (Red/Cr/CrCb)
25	R/Cr/Cb Cr_4	Input	5v			Port 1 – Digital video input (Red/Cr/CrCb)
26	R/Cr/Cb Cr_5	Input	5v			Port 1 – Digital video input (Red/Cr/CrCb)
27	R/Cr/Cb Cr_6	Input	5v			Port 1 – Digital video input (Red/Cr/CrCb)
28	R/Cr/Cb Cr_7	Input	5v			Port 1 – Digital video input (Red/Cr/CrCb)
29	G/Y/Y_0	Input	5v			Port 1 – Digital video input (Green/Y)
30	VDD2	Power				3.3 V - Power pin for IO
31	VSS	Ground				Ground
32	G/Y/Y_1	Input	5v			Port 1 – Digital video input (Green/Y)
33	G/Y/Y_2	Input	5v			Port 1 – Digital video input (Green/Y)
34	G/Y/Y_3	Input	5v			Port 1 – Digital video input (Green/Y)
35	G/Y/Y_4	Input	5v			Port 1 – Digital video input (Green/Y)
36	VDDcore2	Power				1.8 V - Power pin for core
37	VSScore	Ground				Ground
38	G/Y/Y_5	Input	5v			Port 1 – Digital video input (Green/Y)
39	G/Y/Y_6	Input	5v			Port 1 – Digital video input (Green/Y)
40	G/Y/Y_7	Input	5v			Port 1 – Digital video input (Green/Y)
41	IN_SEL	Output	5v	8 mA		Output to select external video mux
42	TEST	Input	5v			Connect to Ground
43	DEV_ADDR1	Input	5v			Device address setting 1
44	DEV_ADDR0	Input	5v			Device address setting 0

Pin No	Pin Name	I/O Type	Voltage Tolerance	Drive	Pull up/ Pulldown	Description
45	SCLK	I/O	5v	8 mA		2-wire serial control bus clock
46	SDATA	I/O	5v	8 mA		2-wire serial control bus data
47	RESET_N	Input	5v		PU	Reset
48	VDD3	Power				3.3 V – Power pin for IO
49	VSScore	Ground				Ground
50	SDRAM DATA(0)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
51	SDRAM DATA(1)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
52	SDRAM DATA(2)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
53	SDRAM DATA(3)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
54	SDRAM DATA(4)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
55	SDRAM DATA(5)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
56	SDRAM DATA(6)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
57	SDRAM DATA(7)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
58	SDRAM DATA(8)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
59	SDRAM DATA(9)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
60	SDRAM DATA(10)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
61	SDRAM DATA(11)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
62	VDD4	Power				3.3 V – Power pin for IO
63	VSS	Ground				Ground
64	SDRAM DATA(12)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
65	SDRAM DATA(13)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
66	SDRAM DATA(14)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
67	SDRAM DATA(15)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
68	VDDcore3	Power				1.8 V - Power pin for core
69	VSScore	Ground				Ground
70	SDRAM DATA(16)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
71	SDRAM DATA(17)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
72	SDRAM DATA(18)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
73	SDRAM DATA(19)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
74	SDRAM DATA(20)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
75	SDRAM DATA(21)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
76	SDRAM DATA(22)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
77	SDRAM DATA(23)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
78	SDRAM DATA(24)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
79	SDRAM DATA(25)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
80	VDDcore4	Power				1.8 V – Power pin for core
81	VSScore	Ground				Ground
82	SDRAM DATA(26)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
83	SDRAM DATA(27)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
84	SDRAM DATA(28)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
85	SDRAM DATA(29)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
86	SDRAM DATA(30)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
87	SDRAM DATA(31)	Tristate I/O	5v	4 mA	PD	SDRAM data bus *
88	VDD5	Power				3.3 V – Power pin for IO

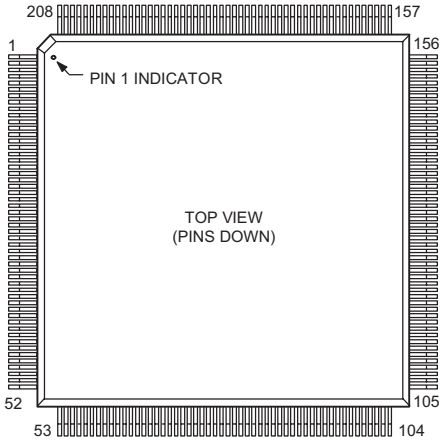
Pin No	Pin Name	I/O Type	Voltage Tolerance	Drive	Pull up/ Pulldown	Description
89	VSS	Ground				Ground
90	TEST IN	Input	5V			Test input-Connect to ground
91	SDRAM ADDR(10)	Tristate O/P	5v	8 mA		SDRAM address bus *
92	SDRAM ADDR(9)	Tristate O/P	5v	8 mA		SDRAM address bus *
93	SDRAM ADDR(8)	Tristate O/P	5v	8 mA		SDRAM address bus *
94	SDRAM ADDR(7)	Tristate O/P	5v	8 mA		SDRAM address bus *
95	SDRAM ADDR(6)	Tristate O/P	5v	8 mA		SDRAM address bus *
96	VDDcore5	Power				1.8 V – Power pin for core
97	VSScore	Ground				Ground
98	SDRAM ADDR(5)	Tristate O/P	5v	8 mA		SDRAM address bus *
99	SDRAM ADDR(4)	Tristate O/P	5v	8 mA		SDRAM address bus *
100	SDRAM ADDR(3)	Tristate O/P	5v	8 mA		SDRAM address bus *
101	SDRAM ADDR(2)	Tristate O/P	5v	8 mA		SDRAM address bus *
102	SDRAM ADDR(1)	Tristate O/P	5v	8 mA		SDRAM address bus *
103	SDRAM ADDR(0)	Tristate O/P	5v	8 mA		SDRAM address bus *
104	SDRAM WEN	Tristate O/P	5v	8 mA		SDRAM write enable *
105	SDRAM RASN	Tristate O/P	5v	8 mA		SDRAM row address select *
106	SDRAM CASN	Tristate O/P	5v	8 mA		SDRAM column address select *
107	SDRAM BA1	Tristate O/P	5v	8 mA		SDRAM bank select 1*
108	SDRAM BA0	Tristate O/P	5v	8 mA		SDRAM bank select 0*
109	SDRAM CSN	Tristate O/P	5v	4 mA		SDRAM CS *
110	SDRAM DQM	Tristate O/P	5v	8 mA		SDRAM DQM *
111	SDRAM CLKOUT	Output	5v	12 mA		Clock out to SDRAM *
112	VDD6	Power				3.3 V - Power pin for IO
113	VSS	Ground				Ground
114	SDRAM CLKIN	Input	5v			Trace delayed SDRAM Clock in
115	TEST3	Input				Test input – Connect to ground
116	TEST OUT0	Output				Test output – leave open
117	TEST OUT1 / Interrupt Out	Output				Interrupt Output
118	CTLOUT0	Tristate O/P	5v	8 mA		Control signal output selectable as HSync1/ CSync/HRef/Monitor coast
119	CTLOUT1	Tristate O/P	5v	8 mA		Control signal output selectable as VSync1/CRef/VRef/Film Indicator
120	CTLOUT2	Tristate O/P	5v	8 mA		Control signal output selectable as Monitor coast/HRef/VDD_en / HSync2
121	CTLOUT3	Tristate O/P	5v	8 mA		Control signal output selectable as Film Indicator/VRef/backlight_en/VSync2
122	CTLOUT4	Tristate O/P	5v	8 mA		Control signal output selectable as CRef/Field ID/CSync/Monitor coast
123	VDDcore6	Power				1.8 V - Power pin for core
124	VSScore	Ground				Ground
125	CLKOUT	Tristate O/P	5v	12 mA		Output data rate clock
126	B/U/Pb_OUT_0	Tristate O/P	5v	8 mA		Digital video output – Blue/U/Pb
127	B/U/Pb_OUT_1	Tristate O/P	5v	8 mA		Digital video output – Blue/U/Pb

Pin No	Pin Name	I/O Type	Voltage Tolerance	Drive	Pull up/ Pulldown	Description
128	VDD7	Power				3.3 V – Power pin for IO
129	VSS	Ground				Ground
130	B/U/Pb_OUT_2	Tristate O/P	5v	8 mA		Digital video output – Blue/U/Pb
131	B/U/Pb_OUT_3	Tristate O/P	5v	8 mA		Digital video output – Blue/U/Pb
132	B/U/Pb_OUT_4	Tristate O/P	5v	8 mA		Digital video output – Blue/U/Pb
133	B/U/Pb_OUT_5	Tristate O/P	5v	8 mA		Digital video output – Blue/U/Pb
134	B/U/Pb_OUT_6	Tristate O/P	5v	8 mA		Digital video output – Blue/U/Pb
135	B/U/Pb_OUT_7	Tristate O/P	5v	8 mA		Digital video output – Blue/U/Pb
136	R/V/Pr_OUT_0	Tristate O/P	5v	8 mA		Digital video output – Red/V/Pr
137	R/V/Pr_OUT_1	Tristate O/P	5v	8 mA		Digital video output – Red/V/Pr
138	VDDcore7	Power				1.8 V – Power pin for core
139	VSScore	Ground				Ground
140	R/V/Pr_OUT_2	Tristate O/P	5v	8 mA		Digital video output – Red/V/Pr
141	R/V/Pr_OUT_3	Tristate O/P	5v	8 mA		Digital video output – Red/V/Pr
142	R/V/Pr_OUT_4	Tristate O/P	5v	8 mA		Digital video output – Red/V/Pr
143	R/V/Pr_OUT_5	Tristate O/P	5v	8 mA		Digital video output – Red/V/Pr
144	R/V/Pr_OUT_6	Tristate O/P	5v	8 mA		Digital video output – Red/V/Pr
145	R/V/Pr_OUT_7	Tristate O/P	5v	8 mA		Digital video output – Red/V/Pr
146	VDD8	Power				3.3 V – Power pin for IO
147	VSS	Ground				Ground
148	G/Y/Y_OUT_0	Tristate O/P	5v	8 mA		Digital video output – Green/Y
149	G/Y/Y_OUT_1	Tristate O/P	5v	8 mA		Digital video output – Green/Y
150	G/Y/Y_OUT_2	Tristate O/P	5v	8 mA		Digital video output – Green/Y
151	G/Y/Y_OUT_3	Tristate O/P	5v	8 mA		Digital video output – Green/Y
152	G/Y/Y_OUT_4	Tristate O/P	5v	8 mA		Digital video output – Green/Y
153	G/Y/Y_OUT_5	Tristate O/P	5v	8 mA		Digital video output – Green/Y
154	G/Y/Y_OUT_6	Tristate O/P	5v	8 mA		Digital video output – Green/Y
155	G/Y/Y_OUT_7	Tristate O/P	5v	8 mA		Digital video output – Green/Y
156	OE	Input	5v			Output data enable for Digital video output
157	PLL_PVDD	Power				1.8 V – Power pin for PLL pads
158	PLL_PVSS	Ground				Ground for PLL pads
159	AVSS_PLL_BE1	Ground				PLL Ground
160	AVDD_PLL_BE1	Power				1.8 V – Power pin for PLL
161	AVDD_PLL_BE2	Power				1.8 V – Power pin for PLL
162	AVSS_PLL_BE2	Ground				PLL Ground
163	AVSS_PLL_SDI	Ground				PLL Ground
164	AVDD_PLL_SDI	Power				1.8 V – Power pin for PLL
165	AVDD_PLL_FE	Power				1.8 V – Power pin for PLL
166	AVSS_PLL_FE	Ground				PLL Ground
167	DAC_PVSS	Ground				Ground for DAC pads
168	DAC_VDD	Power				1.8 V – Digital power pin for DAC
169	DAC_VSS	Ground				DAC digital Ground
170	DAC_BOUT	Output		34 mA		Analog B/U output
171	DAC_AVDDB	Power				3.3 V – Analog power pin for B channel

Pin No	Pin Name	I/O Type	Voltage Tolerance	Drive	Pull up/ Pulldown	Description
172	DAC_AVSSB	Ground				Analog Ground for B channel
173	DAC_GOUT	Output		34 mA		Analog G/Y output
174	DAC_AVDDG	Power				3.3 V – Analog power pin for G channel
175	DAC_AVSSG	Ground				Analog Ground for G channel
176	DAC_ROUT	Output		34 mA		Analog R/V output
177	DAC_AVDDR	Power				3.3 V – Analog power pin for R channel
178	DAC_AVSSR	Ground				Analog Ground for R channel
179	DAC_COMP	Output				Compensation for video DACs
180	DAC_RSET	Output				Current setting resistor for video DACs
181	DAC_VREFOUT	Output				1.28 V Internally generated voltage reference for video DACs
182	DAC_VREFIN	Input				External Voltage reference for video DACs
183	DAC_AVDD	Power				3.3 V – Analog power pin for DAC
184	DAC_AVSS	Ground				Analog Ground for DAC
185	DAC_GR_AVSS	Ground				Ground for DAC Guard ring
186	DAC_GR_AVDD	Power				3.3 V – Power pin for DAC Guard ring
187	DAC_PVDD	Power				3.3 V –Power pin for DAC pads
188	TEST0	Input	5v			Test pin – connect to ground
189	TEST1	Input	5v			Test pin – connect to ground
190	TEST2	Input	5v			Test pin – connect to ground
191	XTAL IN	Input				External parallel crystal oscillator
192	XTAL OUT	Output				External parallel crystal oscillator
193	VDD9	Power				3.3 V - Power pin for IO
194	VSS	Ground				Ground
195	IN_CLK_PORT 2	Input	5v	4 mA		Port 2 - Data Clock input
196	D1_IN_0	Input	5v	4 mA		Port 2 - ITU-R BT656 digital data input
197	VDDcore8	Power				1.8 V – Power pin for core
198	VSScore	Ground				Ground
199	D1_IN_1	Input	5v	4 mA		Port 2 - ITU-R BT656 digital data input
200	D1_IN_2	Input	5v	4 mA		Port 2 - ITU-R BT656 digital data input
201	D1_IN_3	Input	5v	4 mA		Port 2 - ITU-R BT656 digital data input
202	D1_IN_4	Input	5v	4 mA		Port 2 - ITU-R BT656 digital data input
203	D1_IN_5	Input	5v	4 mA		Port 2 - ITU-R BT656 digital data input
204	D1_IN_6	Input	5v	4 mA		Port 2 - ITU-R BT656 digital data input
205	D1_IN_7	Input	5v	4 mA		Port 2 - ITU-R BT656 digital data input
206	FIELD ID_PORT 2	Input	5v	4 mA		Port 2 - Odd/Even Field identification
207	VSYNC_ PORT 2	Input	5v	4 mA		Port 2 - Vertical sync or reference
208	HSYNC_PORT 2	Input	5v	4 mA		Port 2 - Horizontal sync or reference

Note: 1) * - The connection of these pins depends on the type of external SDRAM used. See Appendix 3
2) For 16/20 bit Y and muxed C output modes see Appendix 2 for pin configuration

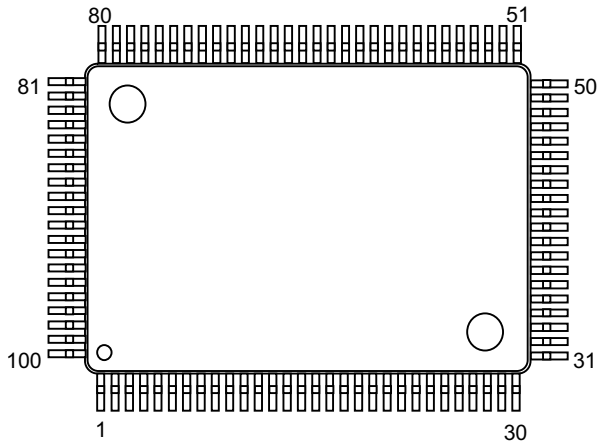
ADSP21367 (IC1024)



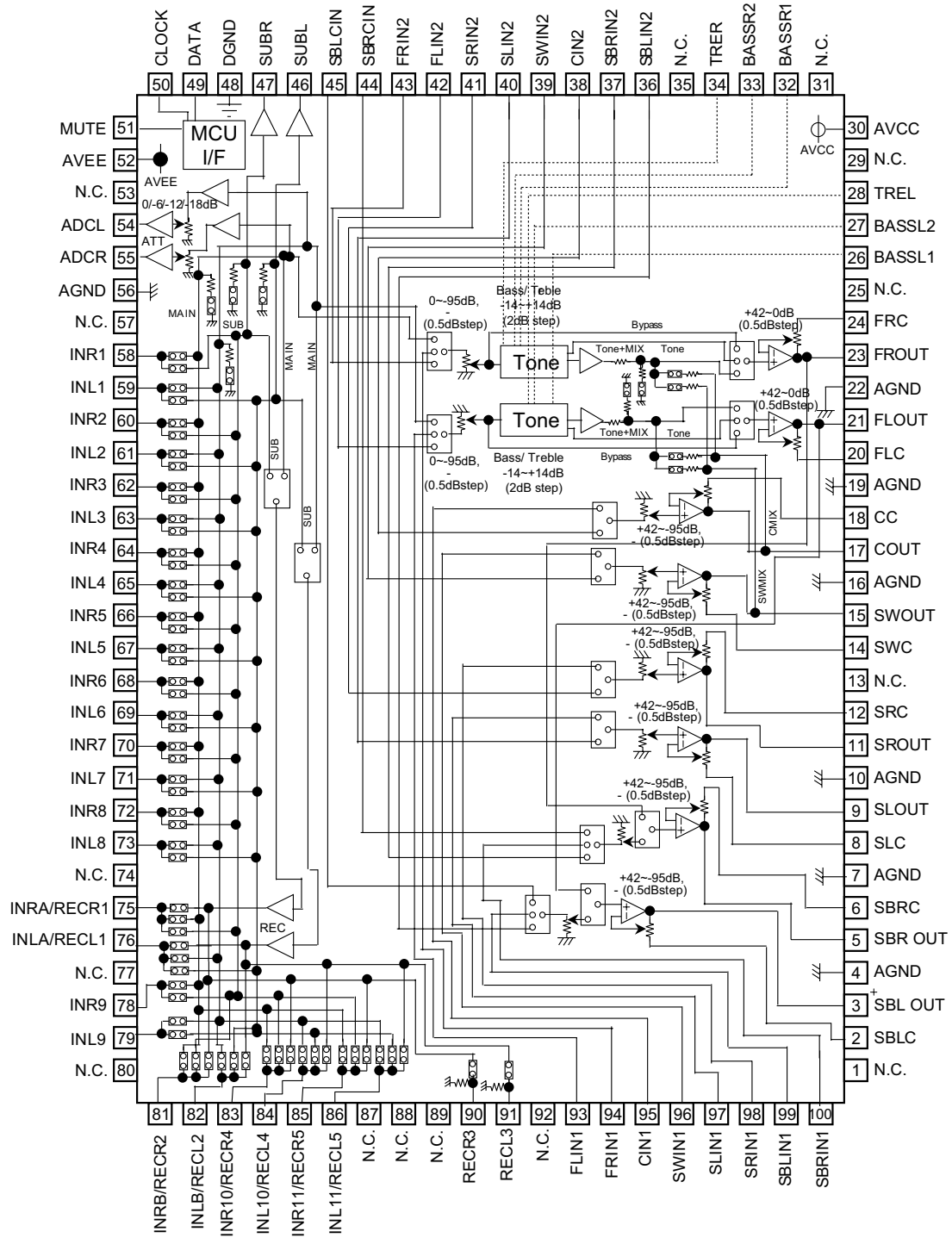
ADSP21367 Terminal Function

Pin No.	Signal	Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	VDD	53	VDD	105	VDD	157	VDD
2	DATA28	54	GND	106	GND	158	VDD
3	DATA27	55	IOVDD	107	IOVDD	159	GND
4	GND	56	ADDR0	108	$\overline{\text{SDCAS}}$	160	VDD
5	IOVDD	57	ADDR2	109	$\overline{\text{SDRAS}}$	161	VDD
6	DATA26	58	ADDR1	110	SDCKE	162	VDD
7	DATA25	59	ADDR4	111	$\overline{\text{SDWE}}$	163	TDI
8	DATA24	60	ADDR3	112	$\overline{\text{WR}}$	164	$\overline{\text{TRST}}$
9	DATA23	61	ADDR5	113	SDA10	165	TCK
10	GND	62	GND	114	GND	166	GND
11	VDD	63	VDD	115	IOVDD	167	VDD
12	DATA22	64	GND	116	SDCLK0	168	TMS
13	DATA21	65	IOVDD	117	GND	169	CLK_CFG0
14	DATA20	66	ADDR6	118	VDD	170	BOOTCFG0
15	IOVDD	67	ADDR7	119	$\overline{\text{RD}}$	171	CLK_CFG1
16	GND	68	ADDR8	120	ACK	172	$\overline{\text{EMU}}$
17	DATA19	69	ADDR9	121	FLAG3	173	BOOTCFG1
18	DATA18	70	ADDR10	122	FLAG2	174	TDO
19	VDD	71	GND	123	FLAG1	175	DAI4
20	GND	72	VDD	124	FLAG0	176	DAI2
21	DATA17	73	GND	125	DAI20	177	DAI3
22	VDD	74	IOVDD	126	GND	178	DAI1
23	GND	75	ADDR11	127	VDD	179	IOVDD
24	VDD	76	ADDR12	128	GND	180	GND
25	GND	77	ADDR13	129	IOVDD	181	VDD
26	DATA16	78	GND	130	DAI19	182	GND
27	DATA15	79	VDD	131	DAI18	183	DPI14
28	DATA14	80	AVSS	132	DAI17	184	DPI13
29	DATA13	81	AVDD	133	DAI16	185	DPI12
30	DATA12	82	GND	134	DAI15	186	DPI11
31	IOVDD	83	CLKIN	135	DAI14	187	DPI10
32	GND	84	XTAL2	136	DAI13	188	DPI9
33	VDD	85	IOVDD	137	DAI12	189	DPI8
34	GND	86	GND	138	VDD	190	DPI7
35	DATA11	87	VDD	139	IOVDD	191	IOVDD
36	DATA10	88	ADDR14	140	GND	192	GND
37	DATA9	89	GND	141	VDD	193	VDD
38	DATA8	90	IOVDD	142	GND	194	GND
39	DATA7	91	ADDR15	143	DAI11	195	DPI6
40	DATA6	92	ADDR16	144	DAI10	196	DPI5
41	IOVDD	93	ADDR17	145	DAI8	197	DPI4
42	GND	94	ADDR18	146	DAI9	198	DPI3
43	VDD	95	GND	147	DAI6	199	DPI1
44	DATA4	96	IOVDD	148	DAI7	200	DPI2
45	DATA5	97	ADDR19	149	DAI5	201	CLKOUT
46	DATA2	98	ADDR20	150	IOVDD	202	$\overline{\text{RESET}}$
47	DATA3	99	ADDR21	151	GND	203	IOVDD
48	DATA0	100	ADDR23	152	VDD	204	GND
49	DATA1	101	ADDR22	153	GND	205	DATA30
50	IOVDD	102	$\overline{\text{MS1}}$	154	VDD	206	DATA31
51	GND	103	$\overline{\text{MS0}}$	155	GND	207	DATA29
52	VDD	104	VDD	156	VDD	208	VDD

R2A15215FP (IC700)



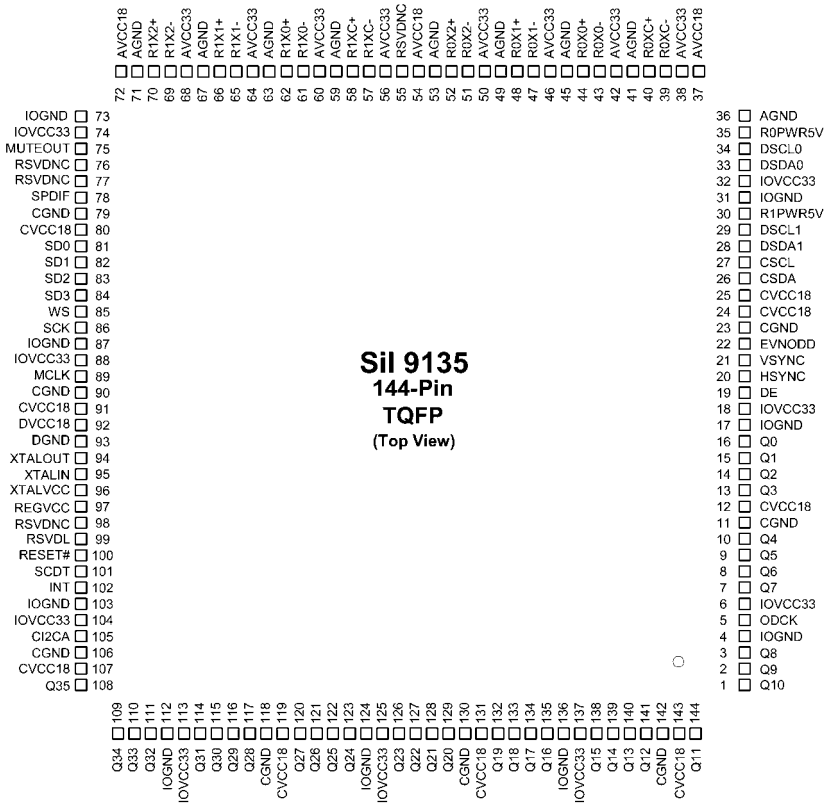
R2A15215FP Block Diagram



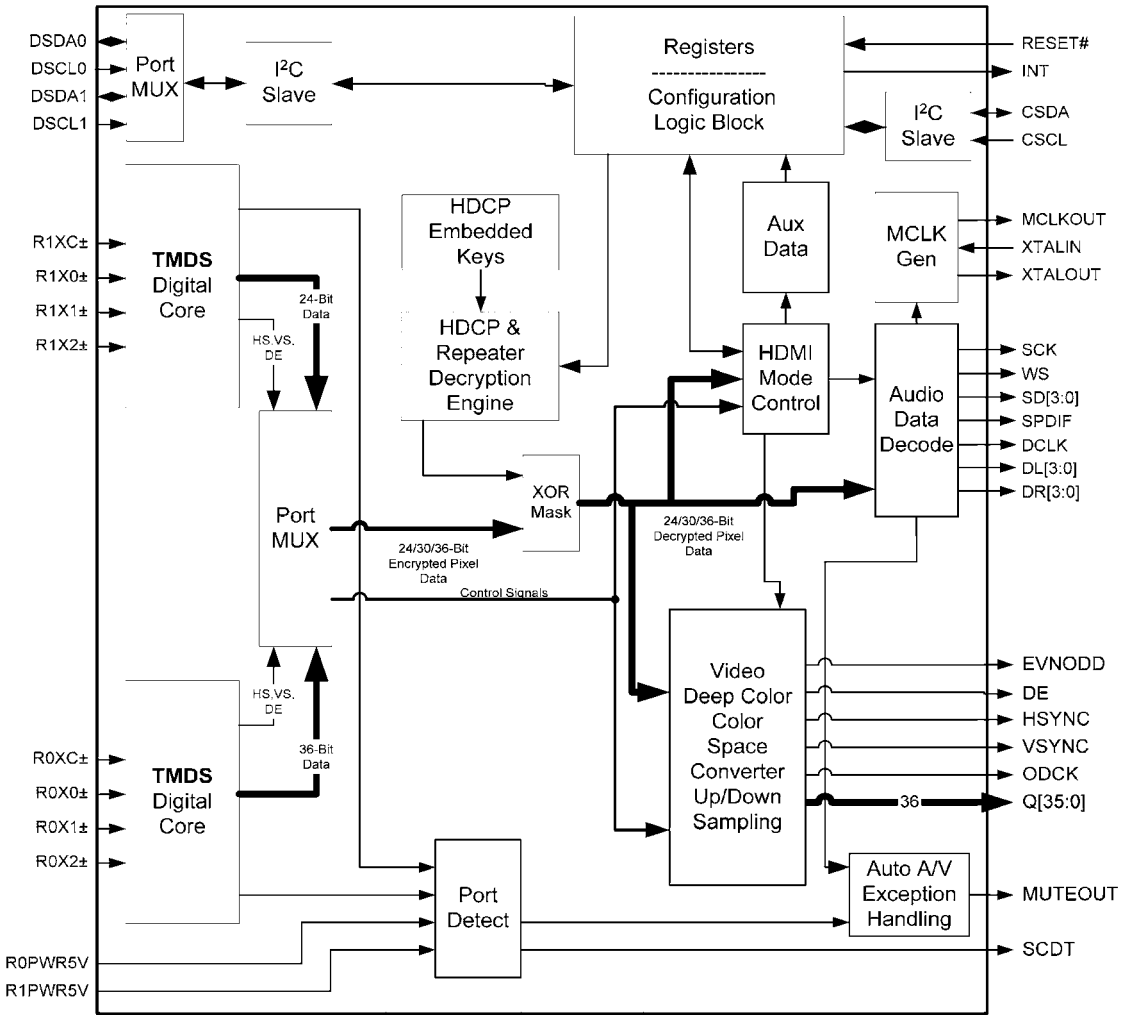
R2A15215FP Terminl Function

PIN No.	Name	Function
23,21, 17,15, 11,9, 5,3	FROUT,FLO UT, COUT,SWOUT, SROUT, SLO UT, SBROUT,S BL OUT	Output pin of FL/ FR/C/SW/SL/ SR/SBL/ SBR channel
24,20, 18,14, 12,8, 6,2	FRC,FLC, CC,SWC, SRC,SLC, SBRC,SBL C	Connects capacitor fo r reducing click no ise of L/R /C/SW/ SL/S R/SBL/ SBR channel vol ume
4,7,10,16, 19,22,56	AGN D	Analog groun d of intern al circuit
28,34	TREL, TRE R	Frequency characteristic setting pin of L/R chann el tone control (Treble)
26,27, 32,33	BA SSL1,BA SSL2 BA SSR1,BASSR2	Frequency characteristic setting pin of L/R chann el tone control (Bass)
30	AVCC	Positive powe r supply to internal cir cuit
43,42, 41,40, 39,38, 37,36	FRIN2, FLIN2, SRN2,SLIN2, SWIN2,CIN2 , SBRIN2,S BLIN2	Input pin of L/R /C/SW/ SL/ SR/SBL /SBR channel (Multi IN 1/2)
93,94, 95,96, 97,98, 99,100	FLIN1, F RIN1, CIN1,SWIN1 , SLIN1,S RIN1, SBLIN1,S BRIN1	
48	DGN D	Digital ground of intern al circuit
49	DATA	Input pin of c ontrol data
50	CLOCK	Input pin of c ontrol clock
52	AVEE	Negative pow er supply to internal cir cuit
59,61,63, 65,67,69, 71,73,79	INL1, INL2, I NL3, INL4, INL5, INL6, INL7, INL8, INL9	Input pin of L/R channel (Input Selector)
58,60,62, 64,66,68, 70,72,78	INR1,INR2, I NR3, INR4,INR5,I NR6, INR7,INR8,I NR9	
51	MUTE	Outside Mute Con trol PIN
44,45	SBRCIN,SBL CIN	Input pin for S BL/ SBR channel Volum e
46,47	SUBL,SU BR	Output pin for L/R chann el SUB Output
54,55	ADCL, ADCR	Output pin for L/R chann el ADC
90,91	RECR3,RECL3	Output pin for L/R chann el REC Output
75,76, 81,82, 83,84, 85,86	INRA/RECR1,INLA/RECL1, INRB/REC R2,INLB/ RECL2, INR10/RECR4,I NL10/RECL4, INR11/RECR5,I NL11/RECL5	Input pin of L/R channel (Input Selector)/ Output pin for L/R chann el REC Output
1,13,25,29,31, 35,53, 57,74,77,80, 87,88,89,92	N.C.	No Connected PIN

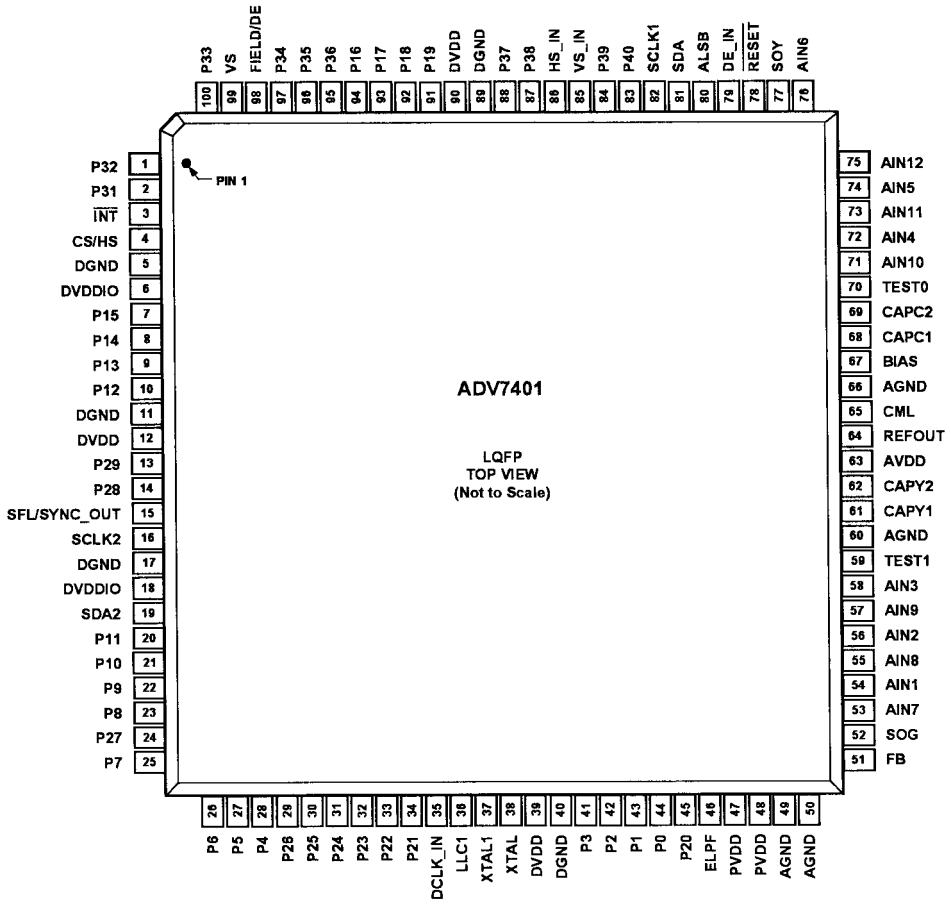
Sil9135 (IC1008)



Functional Block Diagram



ADV7401BSTZ (IC1020)

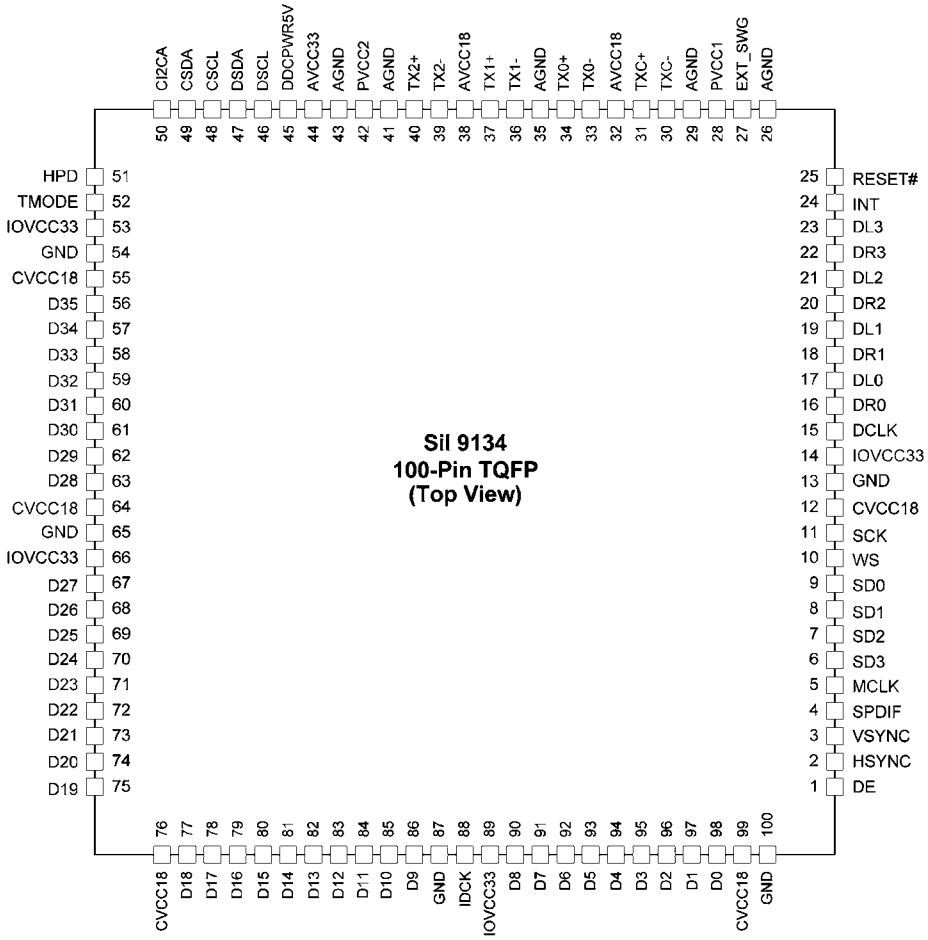


PIN FUNCTION DESCRIPTION

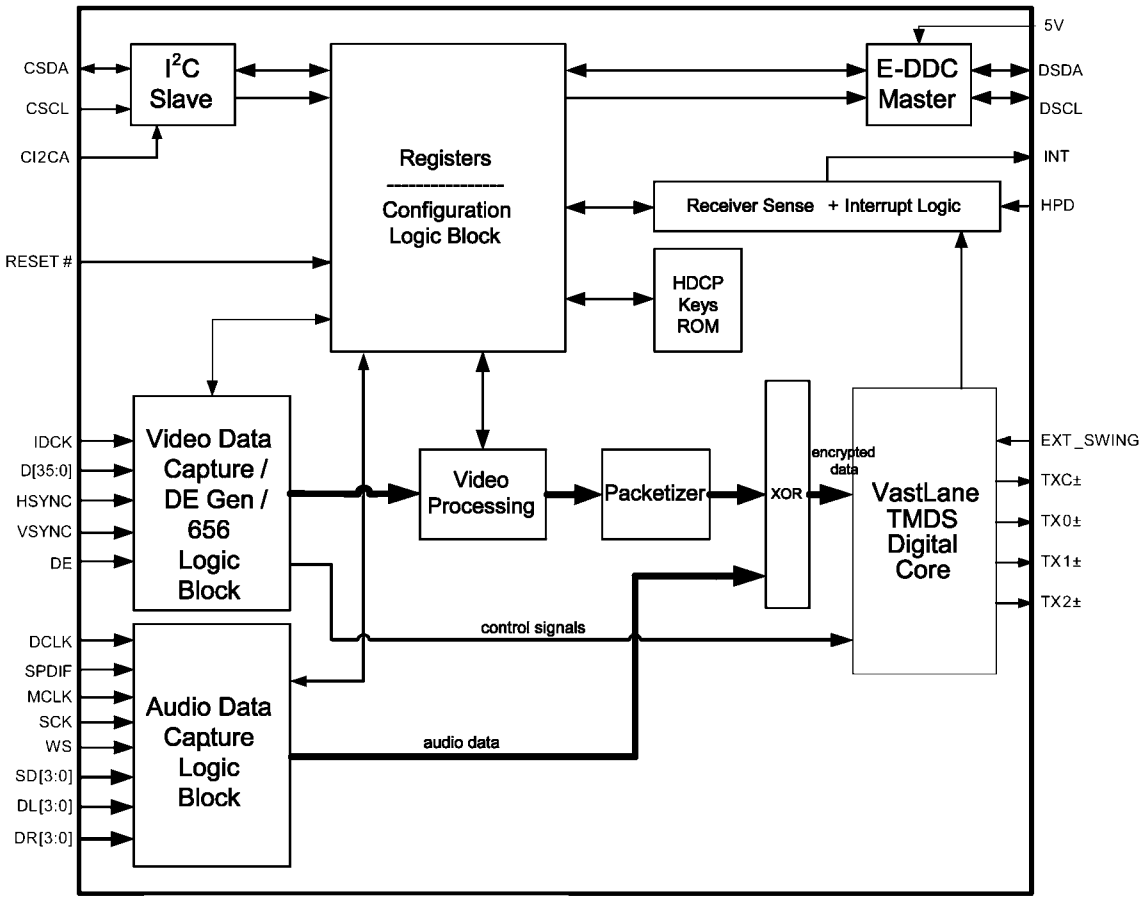
Pin No.	Mnemonic	Type	Function
5, 11, 17, 40, 89	DGND	G	Digital Ground.
49, 50, 60, 66	AGND	G	Analog Ground.
6, 18	DVDDIO	P	Digital I/O Supply Voltage (3.3 V).
12, 39, 90	DVDD	P	Digital Core Supply Voltage (1.8 V).
63	AVDD	P	Analog Supply Voltage (3.3 V).
47, 48	PVDD	P	PLL Supply Voltage (1.8 V).
51	FB	I	Fast Switch Overlay Input. This pin switches between CVBS and RGB analog signals.
54, 56, 58, 72, 74, 76, 53, 55, 57, 71, 73, 75	AIN1 to AIN12	I	Analog Video Input Channels.
42, 41, 28, 27, 26, 25, 23, 22, 10, 9, 8, 7, 94, 93, 92, 91	P2 to P9, P12 to P19	O	Video Pixel Output Port.
33, 32, 31, 30, 29, 24, 14, 13	P22 to P29	I/O	Video Input/Output Port
44, 43, 21, 20, 45, 34, 2, 1, 100, 97, 96, 95, 88, 87, 84, 83	P0 to P1, P10 to P11, P20 to P21, P31 to P40	I	Video Pixel Input Port.
3	$\overline{\text{INT}}$	O	Interrupt. This pin can be active low or active high. When SDP/CP status bits change this pin triggers. The set of events which triggers an interrupt are under user control.

Pin No.	Mnemonic	Type	Function
4	HS/CS	O	HS is a Horizontal Synchronization Output Signal (SDP and CP modes). CS is a Digital Composite Synchronization Signal (and can be selected while in CP mode).
99	VS	O	Vertical Synchronization Output Signal (SDP and CP modes).
98	FIELD/DE	O	Field Synchronization Output Signal (all interlaced video modes). This pin also can be enabled as a Data Enable signal (DE) in CP mode to allow direct connection to a HDMI/DVI Tx IC.
81, 19	SDA1, SDA2	I/O	I²C Port Serial Data Input/Output Pins. SDA1 is the data line for the Control port and SDA2 is the data line for the VBI readback port.
82, 16	SCLK1, SCLK2	I	I²C port serial clock input (max clock rate of 400 kHz). SCLK1 is the clock line for the Control port and SCLK2 is the clock line for the VBI data readback port.
80	ALSB	I	This pin selects the I²C address for the ADV7401 Control and VBI readback ports. ALSB set to a logic 0 sets the address for a write to control port of 0x40 and the readback address for the VBI port of 0x21. ALSB set to a logic high sets the address for a write to control port of 0x42 and the readback address for the VBI port of 0x23.
78	$\overline{\text{RESET}}$	I	System reset input, active low. A minimum low reset pulse width of 5 ms is required to reset the ADV7401 circuitry.
36	LLC1	O	LLC1 is a line locked output clock for the pixel data (range is 12.825 MHz to 140 MHz for ADV7401KSTZ-140; 12.825 MHz to 110 MHz for ADV7401BSTZ-110; 12.825 MHz to 80 MHz for ADV7401BSTZ-80).
38	XTAL	I	Input pin for 28.6363 MHz crystal, or can be overdriven by an external 3.3 V 28.6363 MHz clock oscillator source to clock the ADV7401.
37	XTAL1	O	This pin should be connected to the 28.6363 MHz crystal or left as a no connect if an external 3.3 V 28.6363 MHz clock oscillator source is used to clock the ADV7401. In crystal mode the crystal must be a fundamental crystal.
46	ELPF	O	The recommend external loop filter must be connected to this ELPF pin.
70	TEST0		This pin should be left unconnected or alternatively tied to AGND.
59	TEST1	O	This pin should be left unconnected.
15	SFL/SYNC_OUT	O	Subcarrier Frequency Lock (SFL). This pin contains a serial output stream which can be used to lock the subcarrier frequency when this decoder is connected to any Analog Devices digital video encoder. SYNC_OUT is the sliced sync output signal only available in CP mode.
64	REFOUT	O	Internal Voltage Reference Output.
65	CML	O	Common-Mode Level Pin (CML)for the internal ADCs.
61, 62	CAPY1 to CAPY2	I	ADC Capacitor Network.
68, 69	CAPC1 to CAPC2	I	ADC Capacitor Network.
67	BIAS	O	External Bias Setting Pin. Connect the recommended resistor (1.35kΩ) between pin and ground.
86	HS_IN/CS_IN	I	Can be configured in CP mode to be either a digital HS input signal or a digital CS input signal used to extract timing in a 5-wire or 4-wire RGB mode.
85	VS_IN	I	VS input signal. Used in CP mode for 5-wire timing mode.
79	DE_IN	I	Data Enable Input Signal. Used in 24-bit digital input port mode (for example, processing 24-bit RGB data from a DVI Rx IC).
35	DCLK_IN	I	Clock Input Signal. Used in 24-bit digital input mode (for example, processing 24-bit RGB data from a DVI Rx IC) and also in digital CVBS input mode.
52	SOG	I	Sync on Green Input. Used in embedded sync mode.
77	SOY	I	Sync on Luma Input. Used in embedded sync mode.

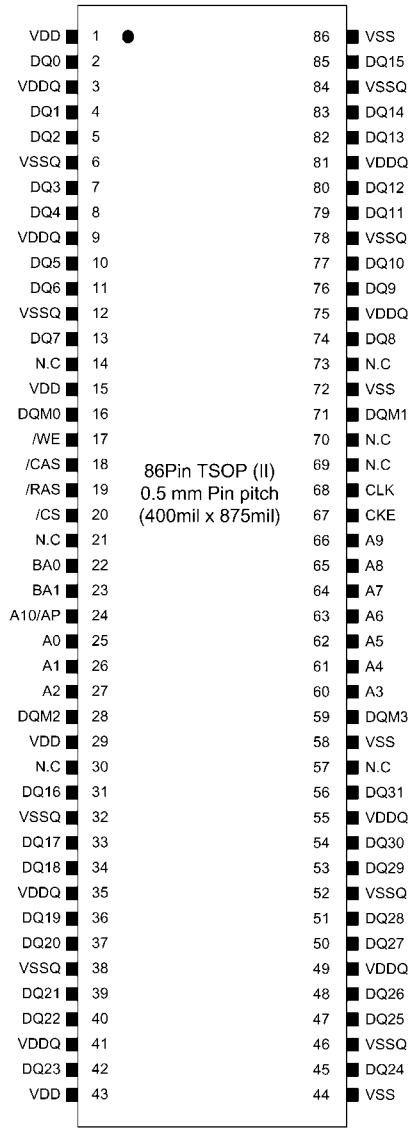
Sil9134 (IC1009)



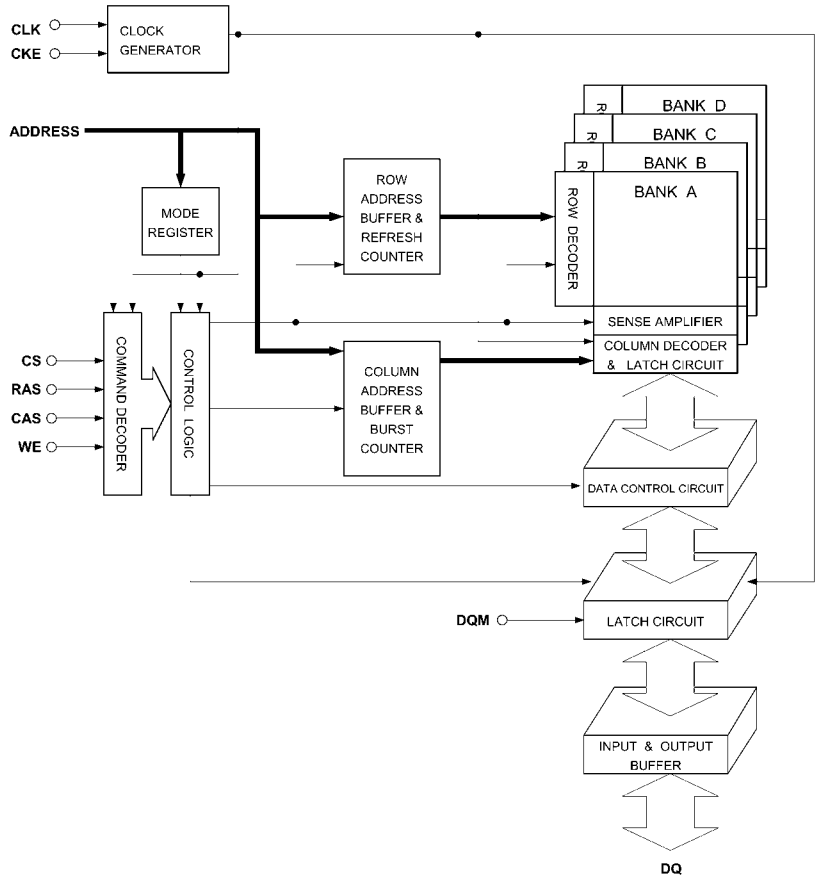
Functional Block Diagram



GLT5640L32 (IC1014)

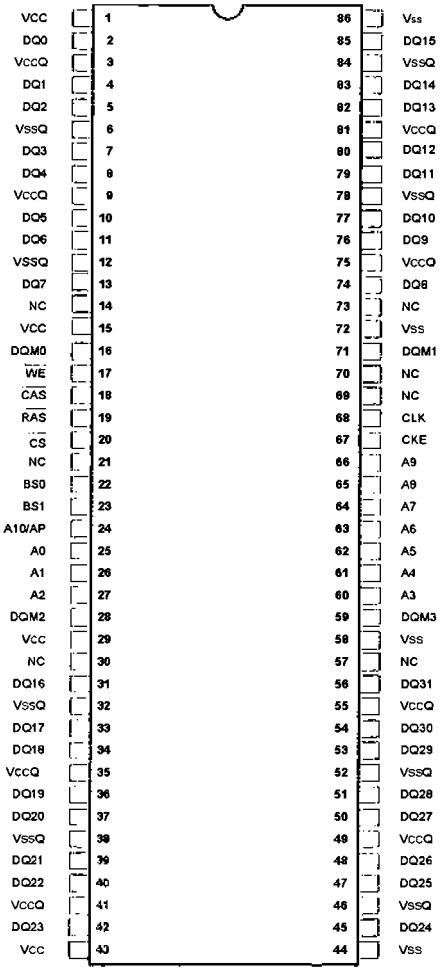


Block Diagram

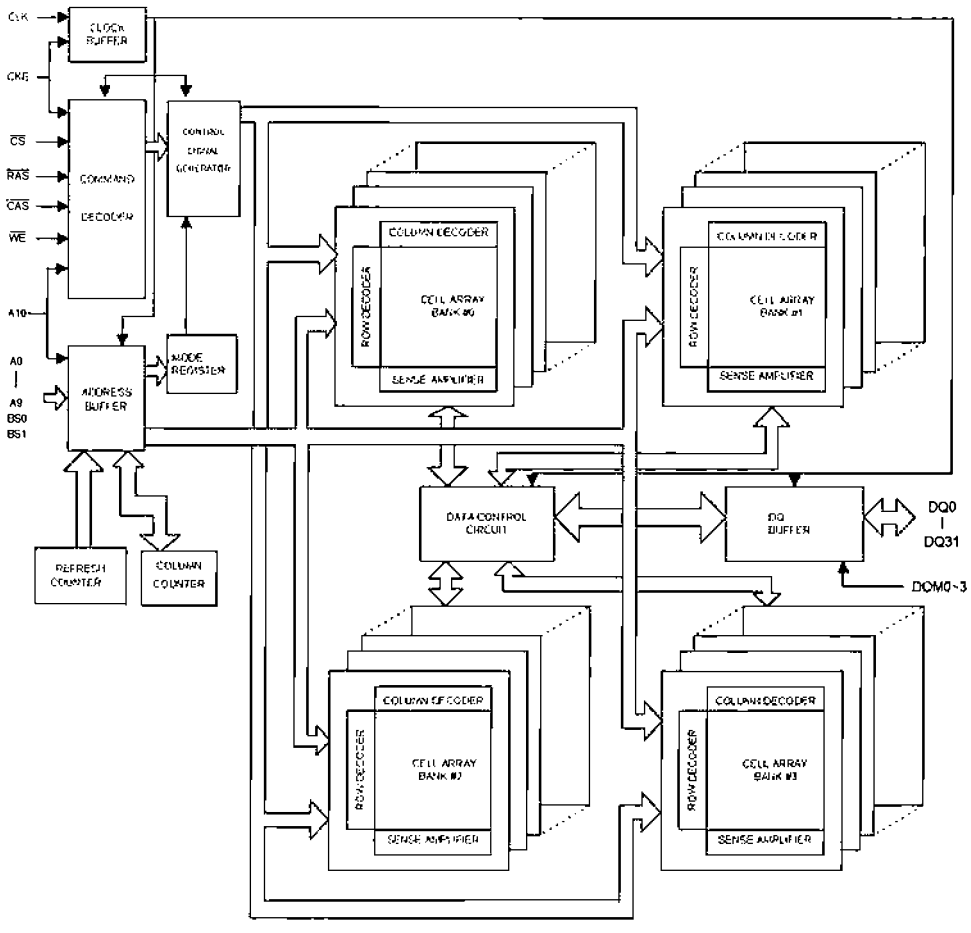


PIN	PIN NAME	DESCRIPTIONS
CLK	System Clock	The system clock input. All other inputs are registered to the SDRAM on the rising edge CLK
CKE	Clock Enable	Controls internal clock signal and when deactivated, the SDRAM will be one of the states among power down, suspend or self refresh
$\overline{CS}$	Chip select	Enable or disable all inputs except CLK, CKE and DQM
BA0, BA1	Bank Address	Selects bank to be activated during $\overline{RAS}$ activity Selects bank to be read/written during $\overline{CAS}$ activity
A0~A10/AP	Address	Row Address : RA0~RA10, Column Address : CA0~CA7, Auto-precharge flag : A10
$\overline{RAS}$, $\overline{CAS}$, $\overline{WE}$	Row Address Strobe, Column Address Strobe, Write Enable	$\overline{RAS}$, $\overline{CAS}$ and $\overline{WE}$ define the operation Refer function truth table for details
DQM0~3	Data Input / Output Mask	Controls output buffers in read mode and masks input data in write mode
DQ0~DQ31	Data Input / Output	Multiplexed data input / output pin
VDD / VSS	Power Supply/Ground	Power supply for internal circuits and input buffers
VDDQ / VSSQ	Data Output Power / Ground	Power supply for output buffers
NC	No Connection	No connection

W9864G2GH (IC1022)



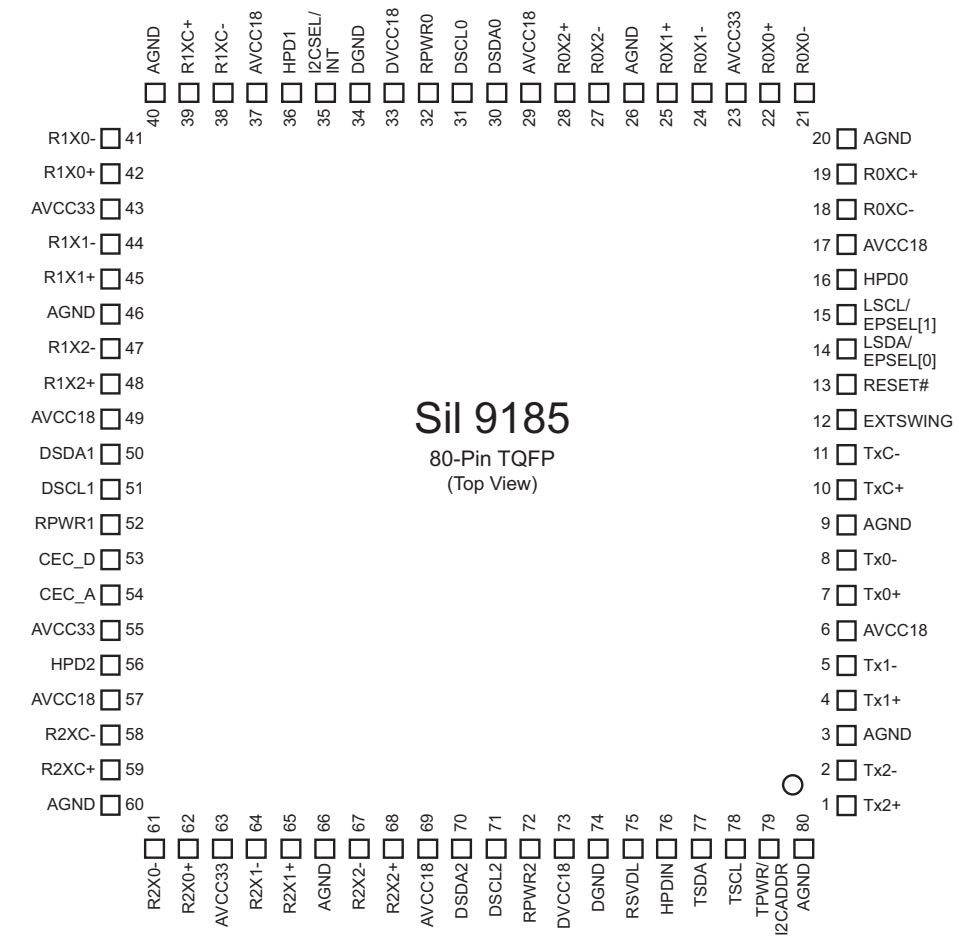
W9864G2GH Block Diagram



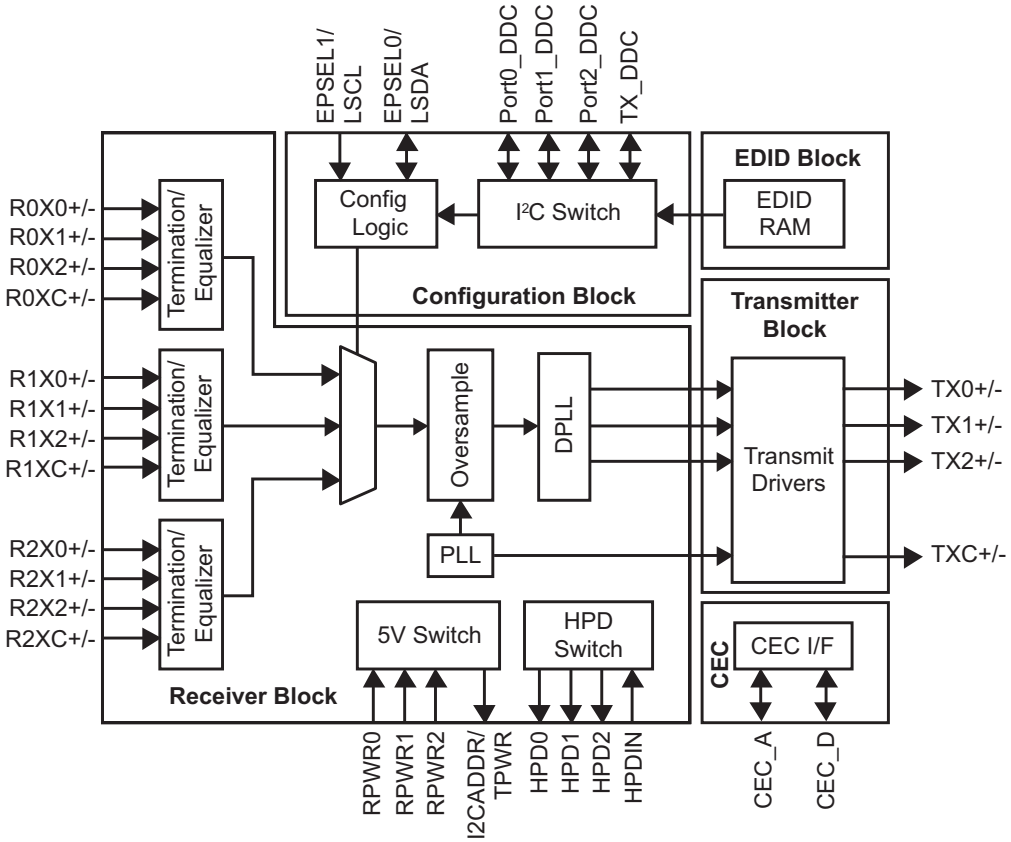
W9864G2GH-6 Pim Description

PIN NUMBER	PIN NAME	FUNCTION	DESCRIPTION
24, 25, 26, 27, 60, 61, 62, 63, 64, 65, 66	A0–A10	Address	Multiplexed pins for row and column address. Row address: A0–A10. Column address: A0–A7. A10 is sampled during a precharge command to determine if all banks are to be precharged or bank selected by BS0, BS1.
22, 23	BS0, BS1	Bank Select	Select bank to activate during row address latch time, or bank to read/write during address latch time.
2, 4, 5, 7, 8, 10, 11, 13, 31, 33, 34, 36, 37, 39, 40, 42, 45, 47, 48, 50, 51, 53, 54, 56, 74, 76, 77, 79, 80, 82, 83, 85	DQ0–DQ31	Data Input/ Output	Multiplexed pins for data output and input.
20	$\overline{CS}$	Chip Select	Disable or enable the command decoder. When command decoder is disabled, new command is ignored and previous operation continues.
19	$\overline{RAS}$	Row Address Strobe	Command input. When sampled at the rising edge of the clock $\overline{RAS}$, $\overline{CAS}$ and $\overline{WE}$ define the operation to be executed.
18	$\overline{CAS}$	Column Address Strobe	Referred to $\overline{RAS}$
17	$\overline{WE}$	Write Enable	Referred to $\overline{RAS}$
16, 28, 59, 71	DQM0–DQM3	Input/Output Mask	The output buffer is placed at Hi-Z (with latency of 2) when DQM is sampled high in read cycle. In write cycle, sampling DQM high will block the write operation with zero latency.
68	CLK	Clock Inputs	System clock used to sample inputs on the rising edge of clock.
67	CKE	Clock Enable	CKE controls the clock activation and deactivation. When CKE is low, Power Down mode, Suspend mode, or Self Refresh mode is entered.
1, 15, 29, 43	V_{CC}	Power	Power for input buffers and logic circuit inside DRAM.
44, 58, 72, 86	V_{SS}	Ground	Ground for input buffers and logic circuit inside DRAM.
3, 9, 35, 41, 49, 55, 75, 81	V_{CCQ}	Power for I/O Buffer	Separated power from VCC, to improve DQ noise immunity.
6, 12, 32, 38, 46, 52, 78, 84	V_{SSQ}	Ground for I/O Buffer	Separated ground from VSS, to improve DQ noise immunity.
14, 21, 30, 57, 69, 70, 73	NC	No Connection	No connection.(The NC pin must connect to ground or floating.)

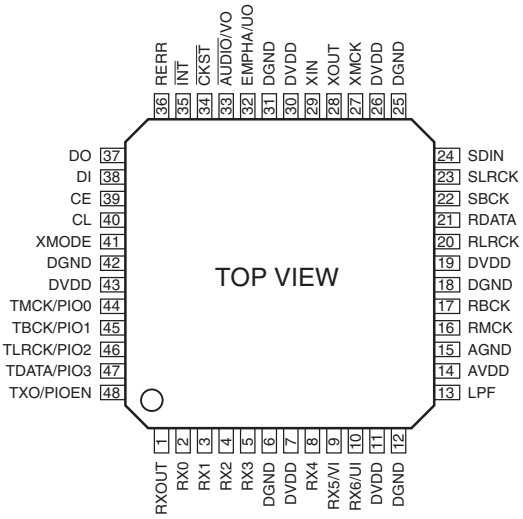
Sil9185 (IC1002)



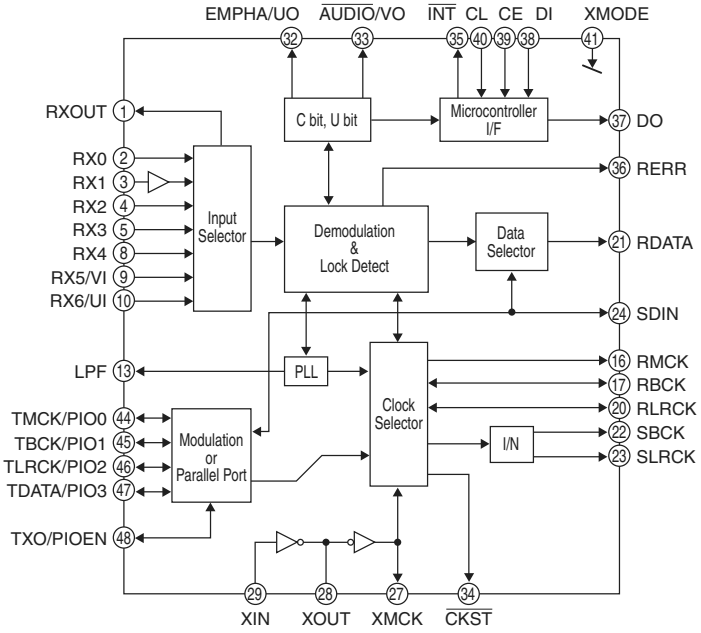
Sil9185 Block Diagram



LC89057W (IC1027)



LC89057W Block Diagram



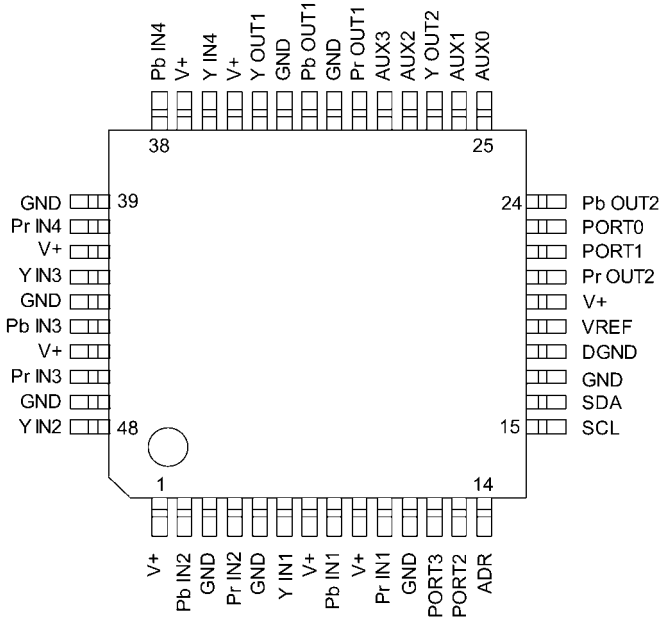
LC89057W Terminal Function

Pin No.	Pin Name	I/O	Function
1	RXOUT	O	Input bi-phase select data output terminal
2	RX0	I	TTL compatible digital data input terminal
3	RX1	I	Coaxial compatible amp built-in digital data input terminal
4	RX2	I	TTL compatible digital data input terminal
5	RX3	I	TTL compatible digital data input terminal
6	DGND	—	Digital GND
7	DVDD	—	Digital power
8	RX4	I	TTL compatible digital data input terminal
9	RX5/VI	I	TTL compatible digital data/Validity flag input terminal for modulation
10	RX6/UI	I	TTL compatible digital data/User data input terminal for modulation
11	DVDD	—	Digital power for PLL
12	DGND	—	Digital GND for PLL
13	LPF	O	PLL loop filter connecting terminal
14	AVDD	—	Analog power for PLL
15	AGND	—	Analog GND for PLL
16	RMCK	O	RMCK clock output terminal (256fs, 512fs, XIN, VCO)
17	RBCK	O/I	RBCK clock in/output terminal (64fs)
18	DGND	—	Digital GND
19	DVDD	—	Digital power
20	RLRCK	O/I	RLRCK clock in/output terminal (fs)
21	RDATA	O	Serial audio data output terminal
22	SBCK	O	SBCK clock output terminal (32fs, 64fs, 128fs)
23	SLRCK	O	SLRCK clock output terminal (fs/2, fs, 2fs)
24	SDIN	I	Serial audio data input terminal
25	DGND	—	Digital GND
26	DVDD	—	Digital power
27	XMCK	O	Osc. amp output terminal

Pin No.	Pin Name	I/O	Function
28	XOUT	O	X'tal osc. connecting output terminal
29	XIN	I	X'tal osc. connection, external clock input terminal (24.576MHz or 12.288MHz)
30	DVDD	—	Digital power
31	DGND	—	Digital GND
32	EMPHA/UO	I/O	Emphasis information/U-data output/Chip address setting terminal
33	AUDIO/VO	I/O	Non-PCM detect/V-flag output/ Chip address setting terminal
34	CKST	I/O	Clock switch transition period output/Demodulation master or slave function switching terminal
35	INT	I/O	Interrupt output for µcom (Interrupt factor selectable)/Modulation or general I/O switching terminal
36	RERR	O	PLL lock error, data error flag output
37	DO	O	µcom I/F, read out data output terminal (3-state)
38	DI	I	µcom I/F, write data input terminal
39	CE	I	µcom I/F, chip enable input terminal
40	CL	I	µcom I/F, clock input terminal
41	XMODE	I	System reset input terminal
42	DGND	—	Digital GND
43	DVDD	—	Digital power
44	TMCK/PIO0	I/O	256fs system clock input for modulation/General I/O in/output terminal
45	TBCK/PIO1	I/O	64fs bit clock input for modulation/General I/O in/output terminal
46	TLRCK/PIO2	I/O	fs clock input for modulation/General I/O in/output terminal
47	TDATA/PIO3	I/O	Serial audio data input for modulation/General I/O in/output terminal
48	TXO/PIOEN	O/I	Modulation data output/ General I/O enable input terminal

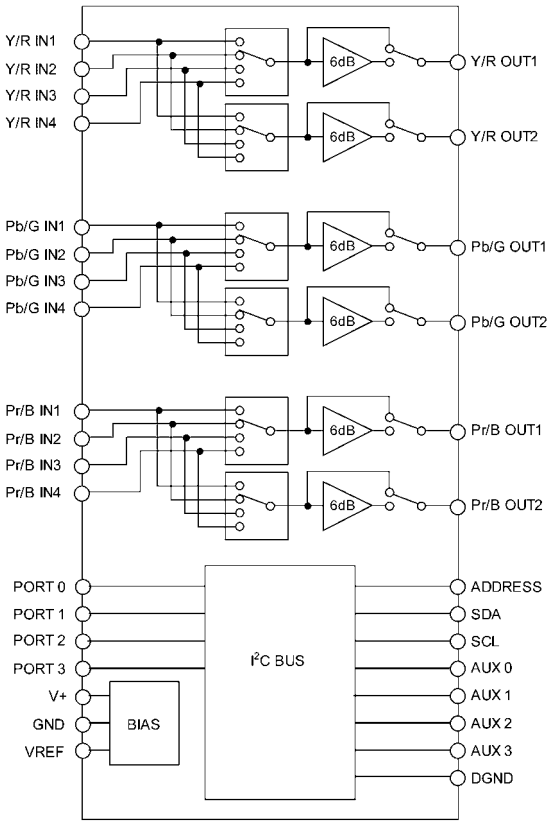
* For latch-up countermeasure, perform each power supply ON/OFF in the same timing.

NJW1321 (IC2023)

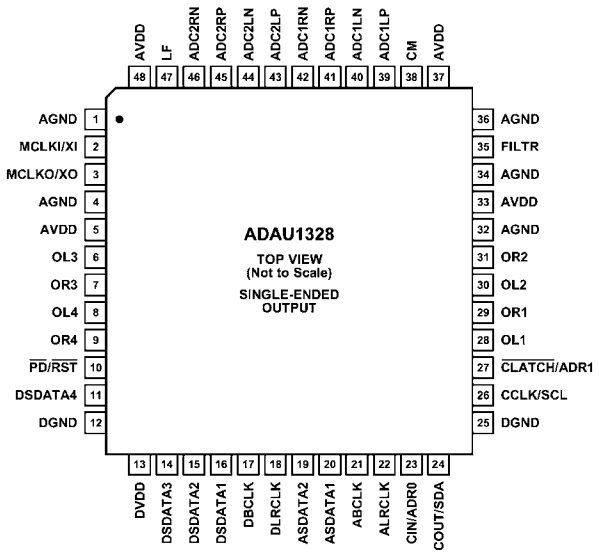


1. V+	13. PORT2	25. AUX0	37. V+
2. Pb IN2	14. ADR	26. AUX1	38. Pb IN4
3. GND	15. SCL	27. Y OUT2	39. GND
4. Pr IN2	16. SDA	28. AUX2	40. Pr IN4
5. GND	17. GND	29. AUX3	41. V+
6. Y IN1	18. DGND	30. Pr OUT1	42. Y IN3
7. V+	19. VREG	31. GND	43. GND
8. Pb IN1	20. V+	32. Pb OUT1	44. Pb IN3
9. V+	21. Pr OUT2	33. GND	45. V+
10. Pr IN1	22. PORT1	34. Y OUT1	46. Pr IN3
11. GND	23. PORT 0	35. V+	47. GND
12. PORT3	24. Pb OUT2	36. Y IN4	48. Y IN2

Block Diagram

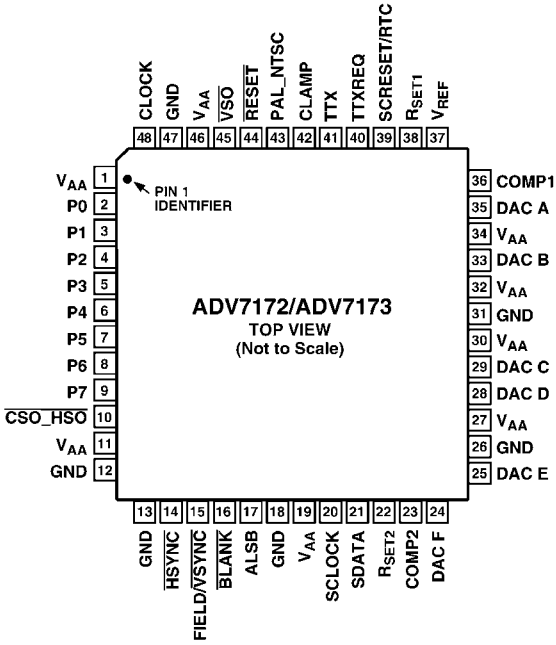


ADAU1328 (IC1026)

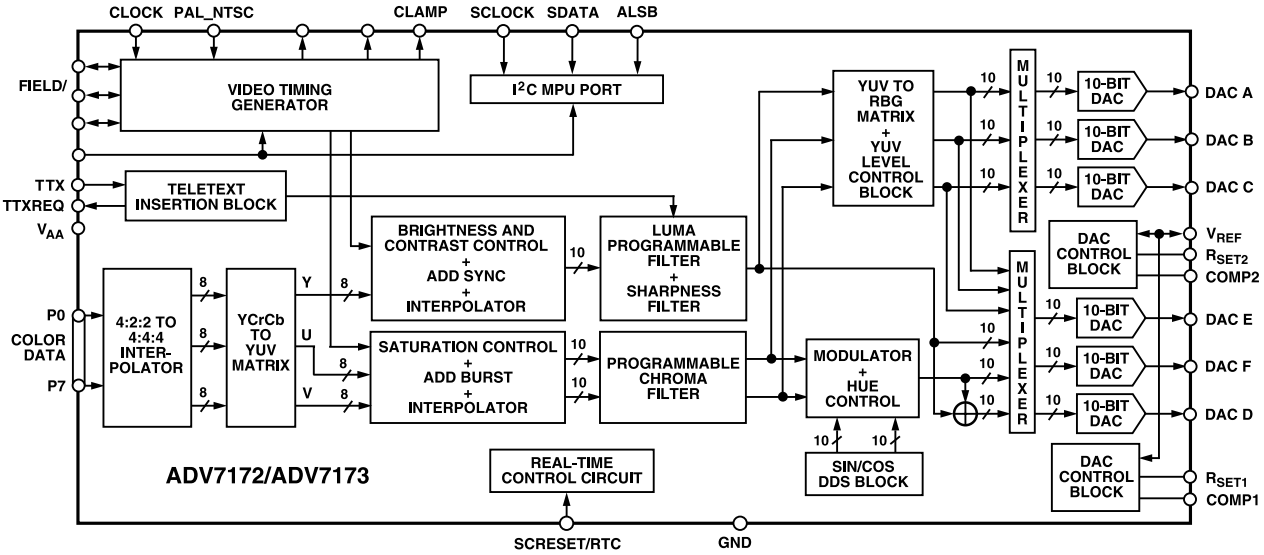


Pin No.	In/Out	Mnemonic	Description
1	I	AGND	Analog Ground.
2	I	MCLKI/XI	Master Clock Input/Crystal Oscillator Input.
3	O	MCLKO/XO	Master Clock Output/Crystal Oscillator Output.
4	I	AGND	Analog Ground.
5	I	AVDD	Analog Power Supply. Connect to analog 3.3 V supply.
6	O	OL3	DAC 3 Left Output.
7	O	OR3	DAC 3 Right Output.
8	O	OL4	DAC 4 Left Output.
9	O	OR4	DAC 4 Right Output.
10	I	$\overline{PD}/\overline{RST}$	Power-Down Reset (Active Low).
11	I/O	DSDATA4	DAC Input 4 (Input to DAC 4 L and R)/DAC TDM Data Out 2/AUX ADC 1 Data In.
12	I	DGND	Digital Ground.
13	I	DVDD	Digital Power Supply. Connect to digital 3.3 V supply.
14	I/O	DSDATA3	DAC Input 3 (Input to DAC 3 L and R)/DAC TDM Data In 2/AUX DAC 2 Data Output.
15	I/O	DSDATA2	DAC Input 2 (Input to DAC 2 L and R)/DAC TDM Data Out 1/AUX ADC 1 Data In.
16	I	DSDATA1	DAC Input 1 (Input to DAC 1 L and R)/DAC TDM Data In 1/AUX ADC 2 Data In.
17	I/O	DBCLK	Bit Clock for DACs.
18	I/O	DLRCLK	LR Clock for DACs.
19	I/O	ASDATA2	ADC Serial Data Output 2 (ADC 2 L and R)/ADC TDM Data Input/AUX DAC 1 Data Output.
20	O	ASDATA1	ADC Serial Data Output 1 (ADC 1 L and R)/ADC TDM Data Output.
21	I/O	ABCLK	Bit Clock for ADCs.
22	I/O	ALRCLK	LR Clock for ADCs.
23	I	CIN/ADR0	Control Data Input (SPI).
24	I/O	COUT/SDA	Control Data Output (SPI).
25	I	DGND	Digital Ground.
26	I	CCLK/SCL	Control Clock Input (SPI).
27	I	$\overline{CLATCH}$/ADR1	Latch Input for Control Data (SPI).
28	O	OL1	DAC 1 Left Output.
29	O	OR1	DAC 1 Right Output.
30	O	OL2	DAC 2 Left Output.
31	O	OR2	DAC 2 Right Output.
32	I	AGND	Analog Ground.
33	I	AVDD	Analog Power Supply. Connect to analog 3.3 V supply.
34	I	AGND	Analog Ground.
35	O	FILTR	Voltage Reference Filter Capacitor Connection. Bypass with 10 µF||100 nF to AGND.
36	I	AGND	Analog Ground.
37	I	AVDD	Analog Power Supply. Connect to analog 3.3 V supply.
38	O	CM	Common-Mode Reference Filter Capacitor Connection. Bypass with 47 µF||100 nF to AGND.
39	I	ADC1LP	ADC1 Left Positive Input.
40	I	ADC1LN	ADC1 Left Negative Input.
41	I	ADC1RP	ADC1 Right Positive Input.
42	I	ADC1RN	ADC1 Right Negative Input.
43	I	ADC2LP	ADC2 Left Positive Input.
44	I	ADC2LN	ADC2 Left Negative Input.
45	I	ADC2RP	ADC2 Right Positive Input.
46	I	ADC2RN	ADC2 Right Negative Input.
47	O	LF	PLL Loop Filter. Return to AVDD.
48	I	AVDD	Analog Power Supply. Connect to analog 3.3 V supply.

ADV7172KSTZ (IC1019)



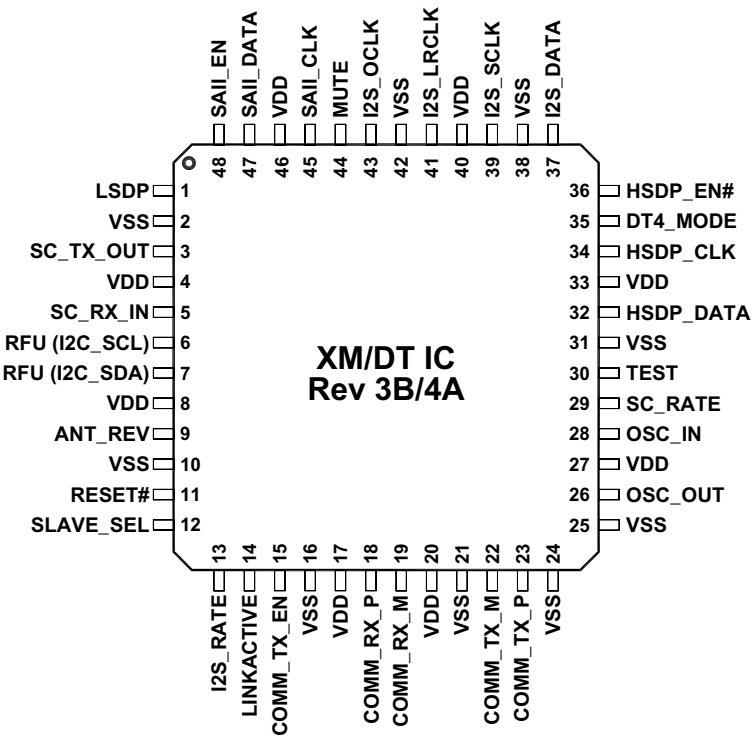
ADV7172KSTZ Block Diagram



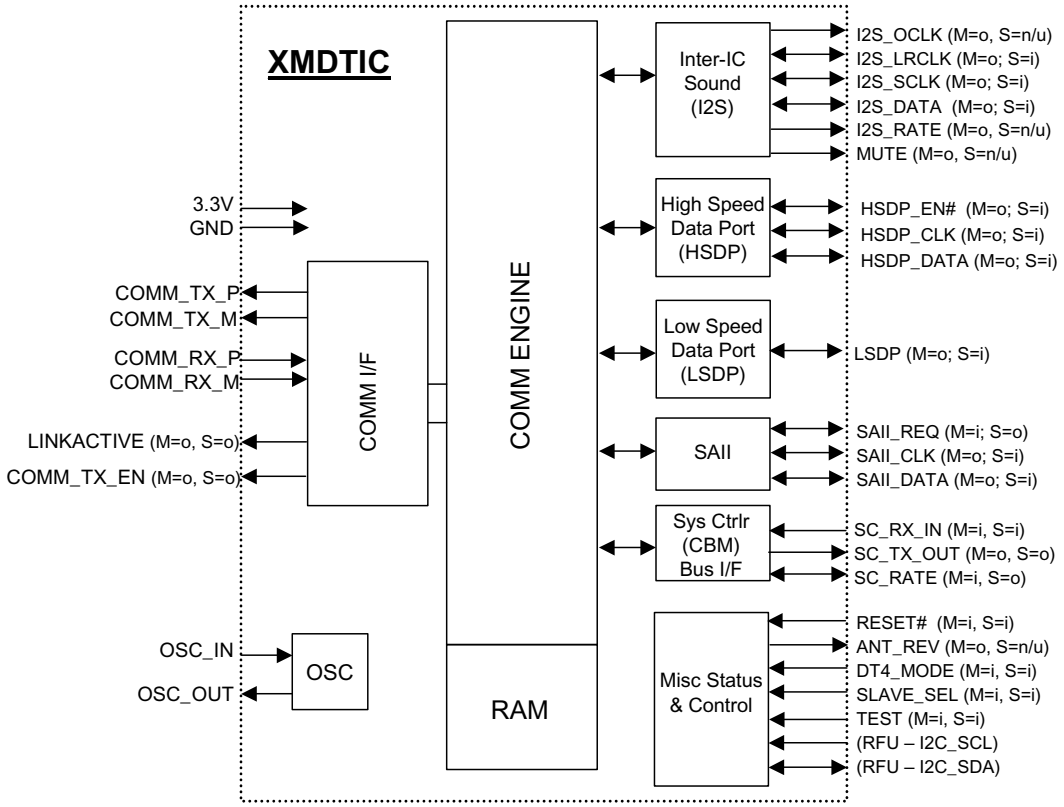
ADV7172KSTZ Pin Function Description

Mnemonic	Input/Output	Function
P7–P0	I	8-Bit 4:2:2 Multiplexed YCrCb Pixel Port (P7–P0) P0 represents the LSB.
CLOCK	I	TTL Clock Input. Requires a stable 27 MHz reference clock for standard operation. Alternatively, a 24.5454 MHz (NTSC) or 29.5 MHz (PAL) can be used for square pixel operation.
$\overline{\text{HSYNC}}$	I/O	$\overline{\text{HSYNC}}$ (Modes 1 and 2) Control Signal. This pin may be configured to output (Master Mode) or as an input and accept (Slave Mode) Sync signals.
FIELD/$\overline{\text{VSYNC}}$	I/O	Dual Function FIELD (Mode 1) and $\overline{\text{VSYNC}}$ (Mode 2) Control Signal. This pin may be configured to output (Master Mode) or as an input (Slave Mode) and accept these control signals.
$\overline{\text{BLANK}}$	I/O	Video Blanking Control Signal. The pixel inputs are ignored when this is Logic Level "0." This signal is optional.
SCRESET/RTC	I	This pin can be configured as an input by setting MR42 and MR41 of Mode Register 4. It can be configured as a subcarrier reset pin, in which case a low-to-high transition on this pin will reset the subcarrier phase to Field 0. Alternatively it may be configured as a Real-Time Control (RTC) Input.
V_{REF}	I/O	Voltage Reference Input for DACs or Voltage Reference Output (1.235 V).
R_{SET1}	I	A 150 Ω resistor connected from this pin to GND is used to control full-scale amplitudes of the Video Signals from DACs A, B, and C (the "large" DACs).
R_{SET2}	I	A 600 Ω resistor connected from this pin to GND is used to control full-scale amplitudes of the Video Signals from DACs D, E, and F (the "small" DACs).
COMP1	O	Compensation Pin for DACs A, B, and C. Connect a 0.1 µF Capacitor from COMP to V_{AA}. For Optimum Dynamic Performance in Low Power Mode, the value of the COMP1 capacitor can be lowered to as low as 2.2 nF.
COMP2	O	Compensation Pin for DACs D, E, and F. Connect a 0.1 µF Capacitor from COMP to V_{AA}.
DAC A	O	GREEN/Composite/Y Analog Output. This DAC is capable of providing 34.66 mA output.
DAC B	O	BLUE/S-Video Y/U Analog Output. This DAC is capable of providing 34.66 mA output.
DAC C	O	RED/S-Video C/V Analog Output. This DAC is capable of providing 34.66 mA output.
DAC D	O	GREEN/Composite/Y Analog Output. This DAC is capable of providing 8.66 mA output.
DAC E	O	BLUE/S-Video Y/U Analog Output. This DAC is capable of providing 8.66 mA output.
DAC F	O	RED/S-Video C/V Analog Output. This DAC is capable of providing 8.66 mA output.
SCLOCK	I	MPU Port Serial Interface Clock Input.
SDATA	I/O	MPU Port Serial Data Input/Output.
CLAMP	O	TTL Output Signal to external circuitry to enable clamping of all video signals.
PAL_NTSC	I	Input signal to select PAL or NTSC mode of operation, pin set to Logic "1" selects PAL.
$\overline{\text{VSO}}$	O	$\overline{\text{VSO}}$ TTL Output Sync Signal.
$\overline{\text{CSO_HSO}}$	O	Dual Function $\overline{\text{CSO}}$ or $\overline{\text{HSO}}$ TTL Output Sync Signal.
ALSB	I	TTL Address Input. This signal sets up the LSB of the MPU address.
$\overline{\text{RESET}}$	I	The input resets the on-chip timing generator and sets the ADV7172/ADV7173 into default mode. This is NTSC operation, Timing Slave Mode 0, DACs A, B, and C powered OFF, DACs D, E, and F powered ON, Composite and S-Video out.
TTX	I	Teletext Data Input Pin.
TTXREQ	O	Teletext Data Request output signal used to control teletext data transfer.
V_{AA}	P	Power Supply (3 V to 5 V).
GND	G	Ground Pin.

F2621E-01(IC1037 : for E3 model only)



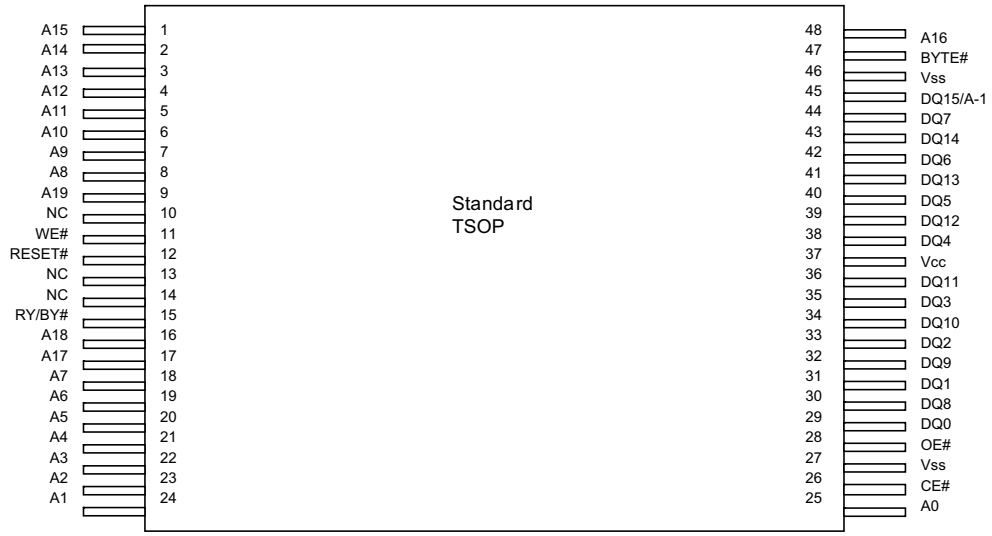
Function Discription



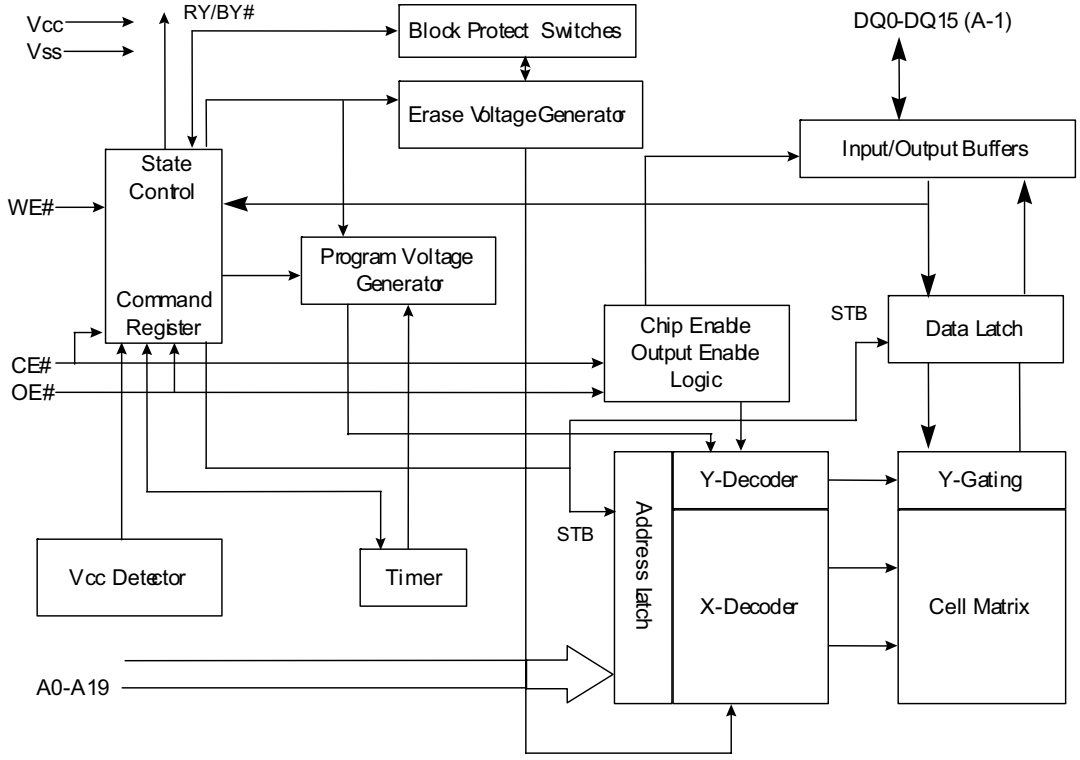
Pin #	Pin Name	Direct-ion	Function in Slave Mode	Function in Master Mode	Notes
1	LSDP	S=In M=Out	Low Speed Data Port Input	Low Speed Data Port Output	Out= 4mA, SLC In=LVTTL S/T
3	SC_TX_OUT	S=Out M=Out	System Controller Bus (CBM) Transmit Data Out	System Controller Bus (CBM) Transmit Data Out	4mA, SLC
5	SC_RX_IN	S=In M=In	System Controller Bus (CBM) Receive Data In	System Controller Bus (CBM) Receive Data In	LVTTL S/T
6	RFU (I2C-SCL)	S=In M=In	Reserved for Future Use (pull down with a 100k resistor to Ground)	Reserved for Future Use (pull down with a 100k resistor to Ground)	LVTTL S/T
7	RFU (I2C-SDA)	S=In M=In	Reserved for Future Use (pull down with a 100k resistor to Ground)	Reserved for Future Use (pull down with a 100k resistor to Ground)	LVTTL S/T
9	ANT_REV	S=n/u M=Out	Not used in Slave mode, leave unconnected	Indication of incompatible antenna (refer to section 4.3.2 for usage)	4mA, SLC
11	RESET#	S=In M=In	Asynchronous Reset In, (Active Low)	Asynchronous Reset In, (Active Low)	LVTTL S/T
12	SLAVE_SEL	S=In M=In	Master/Slave Mode Select In (High = Slave Mode)	Master/Slave Mode Select In (Low = Master Mode)	LVTTL S/T
13	I2S_RATE	S=Out M=Out	Output driven high, leave unconnected	Indicator of incoming I2S data rate (see section 4.4.2)	4mA, SLC
14	LINKACTIVE	S=Out M=Out	Link Active indicator (High = DT bus link is active and data is flowing)	Link Active indicator (High = DT bus link is active and data is flowing)	4mA, SLC
15	COMM_TX_EN	S=Out M=Out	DT Comm Bus External Transceiver Direction Control Output (0=Tx, 1=Rx)	DT Comm Bus External Transceiver Direction Control Output (0=Tx, 1=Rx)	4mA, SLC
18	COMM_RX_P	S=In M=In	DT Differential Comm Bus Internal Receiver Positive In	DT Differential Comm Bus Internal Receiver Positive In	LVDS in+
19	COMM_RX_M	S=In M=In	DT Differential Comm Bus Internal Receiver Negative In	DT Differential Comm Bus Internal Receiver Negative In	LVDS in–
22	COMM_TX_M	S=Out M=Out	DT Differential Comm Bus Internal Transmitter Negative Out	DT Differential Comm Bus Internal Transmitter Negative Out	LVDS out–
23	COMM_TX_P	S=Out M=Out	DT Differential Comm Bus Internal Transmitter Positive Out	DT Differential Comm Bus Internal Transmitter Positive Out	LVDS out+
26	OSC_OUT	S=Out M=Out	Crystal Driver Output	Crystal Driver Output	
28	OSC_IN	S=In M=In	Crystal/ Ext. Clock Input	Crystal/ Ext. Clock Input	
29	SC_RATE (Rev 4A only, pull down for rev 3B)	S=Out M=In	SC interface baud rate Output (High = DT4_MODE is high and the Master DTIC is operating at 115.2K baud)	SC interface baud rate select Input (High = 115.2K baud, Low = 9600 baud)	Out= 4mA, SLC In=LVTTL S/T
30	TEST	S=In M=In	Factory Test Mode Select (1=Test, 0= Normal Oper.)	Factory Test Mode Select (1=Test, 0= Normal Oper.)	LVTTL S/T

Pin #	Pin Name	Direct-ion	Function in Slave Mode	Function in Master Mode	Notes
32	HSDP_DATA	S=In M=Out	High Speed Data Port Data Input	High Speed Data Port Data Output	Out= 4mA, SLC In=LVTTL S/T
34	HSDP_CLK	S=In M=Out	High Speed Data Port Clock Input	High Speed Data Port Clock Output	Out= 4mA, SLC In=LVTTL S/T
35	DT4_MODE	S=In M=In	Enables/Disables driver on SC_RATE and ANT_REV (High = enable driver) This pin was VSS on rev 3 XM/DT IC	Enables/Disables drivers on MUTE and ANT_REV (High = enable drivers) This pin was VSS on rev 3 XM/DT IC	In=LVTTL S/T
36	HSDP_EN#	S=In M=Out	High Speed Data Port Enable Input (Active low)	High Speed Data Port Enable Output (Active low)	Out= 4mA, SLC In=LVTTL S/T
37	I2S_DATA	S=In M=Out	I2S Digital Audio Port Data In	I2S Digital Audio Port Data Out	Out= 4mA, SLC In=LVTTL S/T
39	I2S_SCLK	S=In M=Out	I2S Digital Audio Port Bit Clock In	I2S Digital Audio Port Bit Clock Out	Out= 4mA, SLC In=LVTTL S/T
41	I2S_LRCLK	S=In M=Out	I2S Digital Audio Port Left/Right Clock In	I2S Digital Audio Port Left/Right Clock Out	Out= 4mA, SLC In=LVTTL S/T
43	I2S_OCLK	S=In M=Out	I2S Digital Audio Port Oversample Clock (not used, leave unconnected)	I2S Digital Audio Port Oversample Clock Out	Out= 4mA, SLC
44	MUTE	S=n/u M=Out	Not used in Slave mode, leave unconnected	Provides a mechanism for muting the audio during an I2S rate change (High=mute)	Out= 4mA, SLC
45	SAII_CLK	S=Out M=In	SAII Port Clock Output	SAII Port Clock Input	Out= 4mA, SLC In=LVTTL S/T
47	SAII_DATA	S=Out M=In	SAII Port Data Output	SAII Port Data Input	Out= 4mA, SLC In=LVTTL S/T
48	SAII_REQ	S=In M=Out	SAII Port Request Input	SAII Port Request Output	Out= 4mA, SLC In=LVTTL S/T

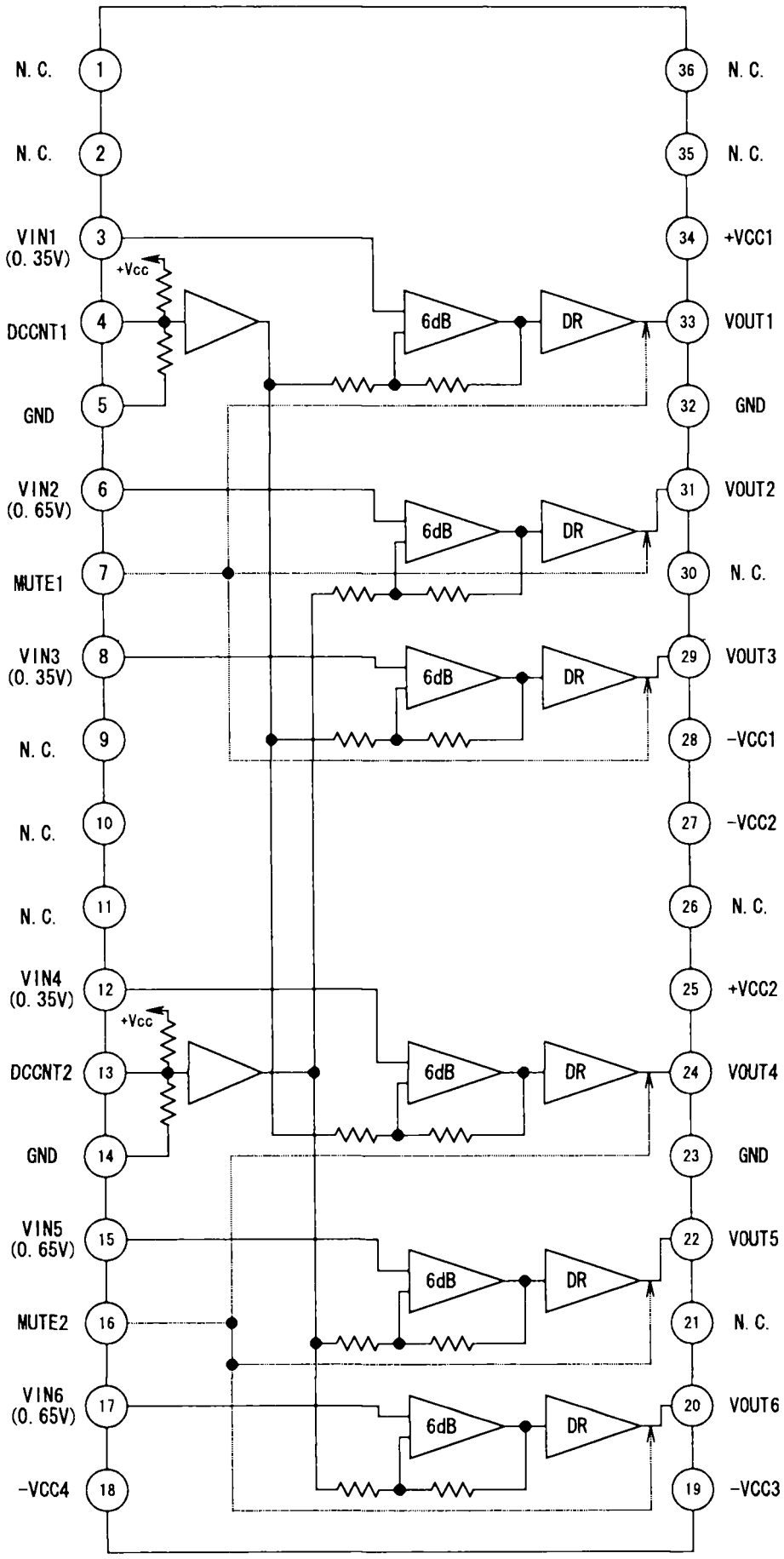
EN29LV160AB-70TI (IC1023)



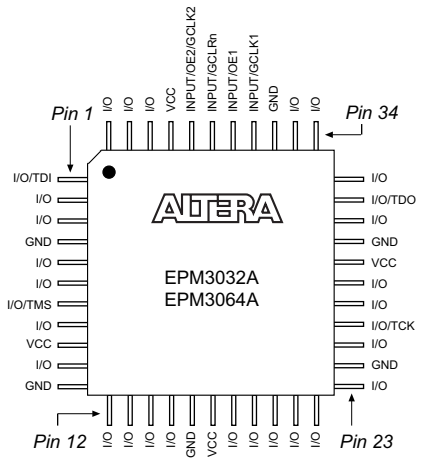
Block Diagram



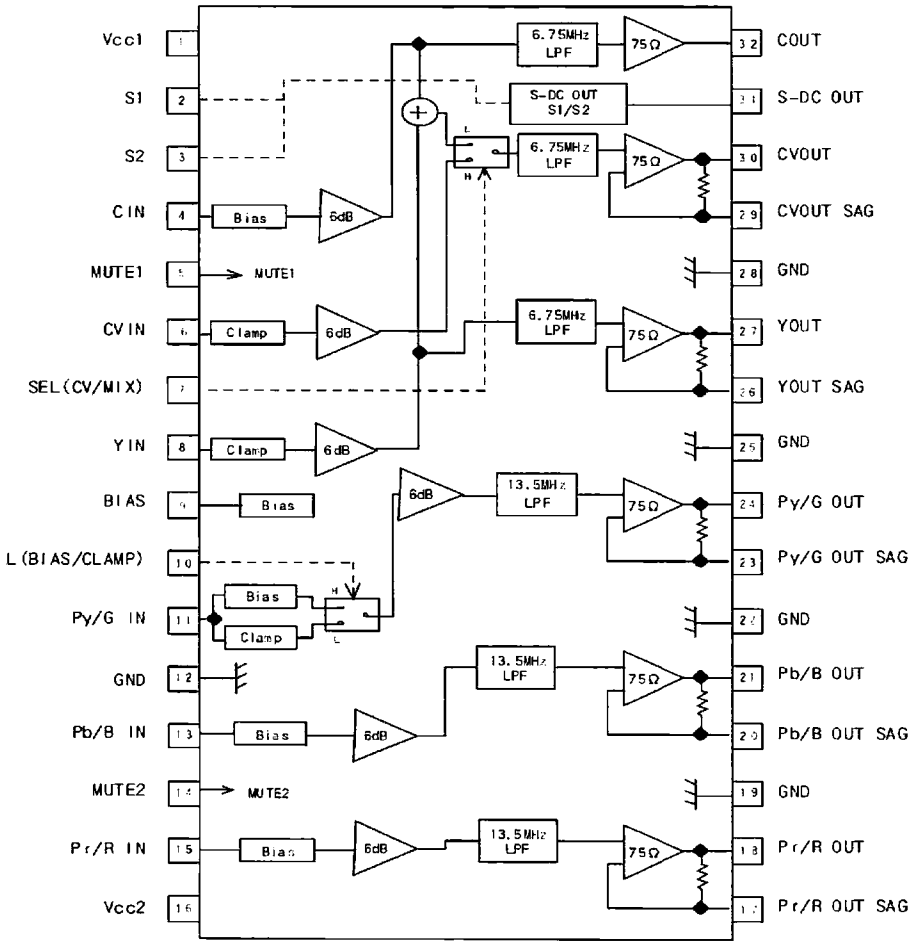
LA73053 (IC2016)



EPM3032A-TC44 (IC1029)



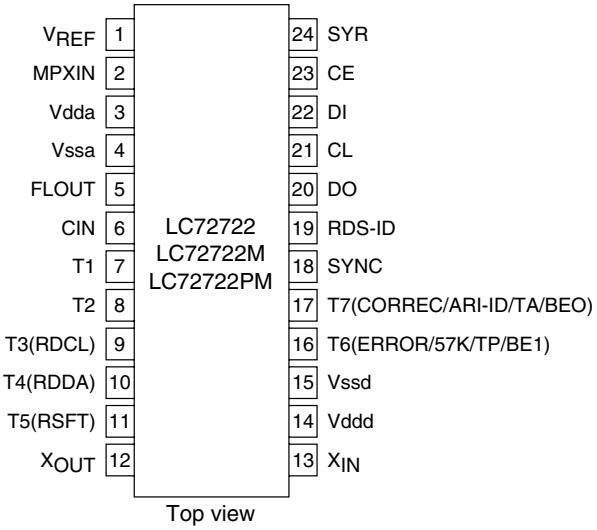
BH7868 (IC1080)



○Pin number and pin name

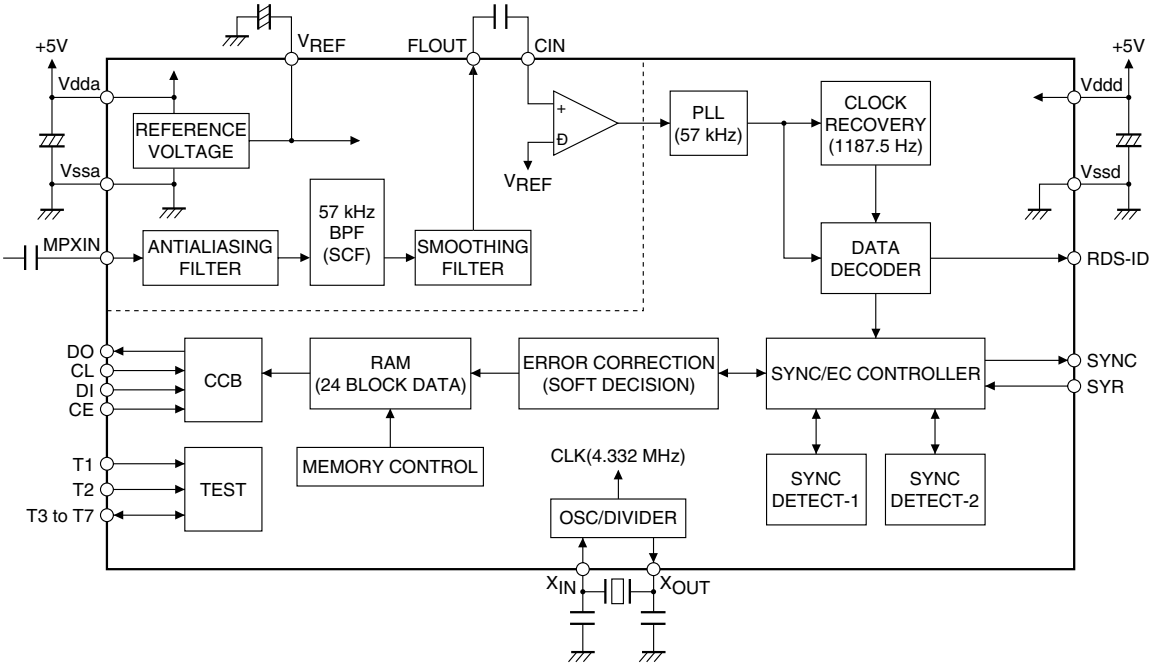
Pin No.	Pin name
1	Vcc1
2	S1
3	S2
4	CIN
5	MUTE1
6	CV IN
7	SEL(CV/MIX)
8	YIN
9	BIAS
10	SEL(BIAS/CLAMP)
11	Py/G IN
12	GND
13	Pb/B IN
14	MUTE2
15	Pr/R IN
16	Vcc2
17	Pr/R OUTSAG
18	Pr/R OUT
19	GND
20	Pb/B OUTSAG
21	Pb/B OUT
22	GND
23	Py/G OUTSAG
24	Py/G OUT
25	GND
26	YOUT SAG
27	YOUT
28	GND
29	CVOUT SAG
30	CVOUT
31	S-DCOUT
32	COUT

LC72722 (IC801 : for E2 model only)

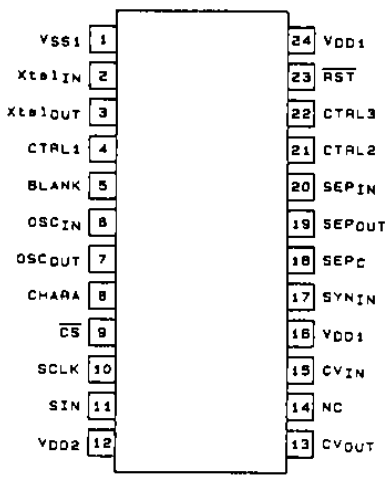


Top view

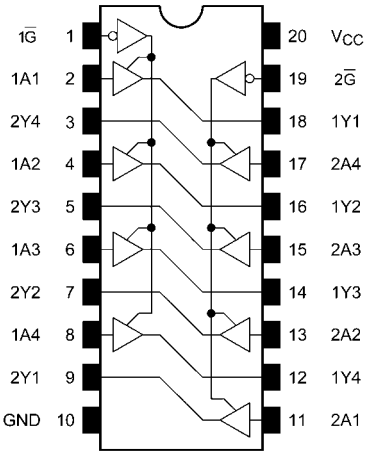
Block Diagram



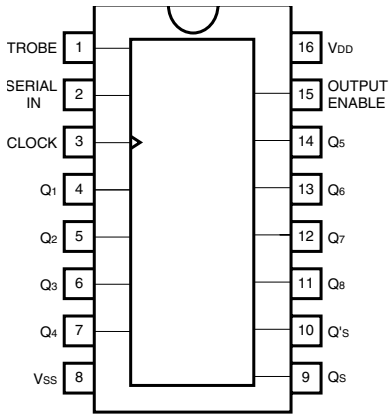
LC74782 (IC2017)



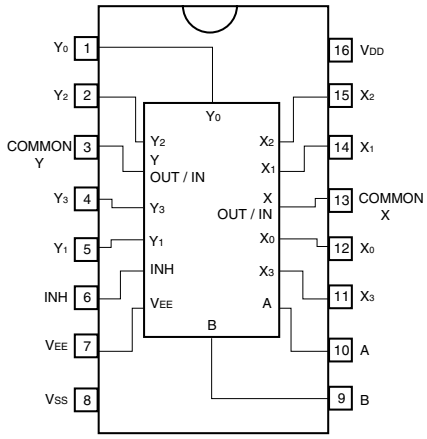
SN74LVC244APW (IC1028)



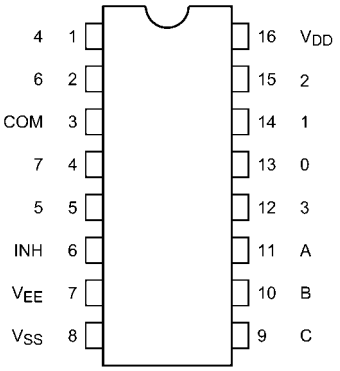
BU4094BCF (IC110,111,2019 : for AVR-1910)
(IC110,111,2019,2020 : for AVC-1910)



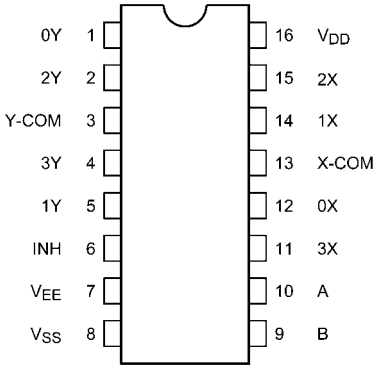
BU4052 (IC2026, 2027 : AVC model)



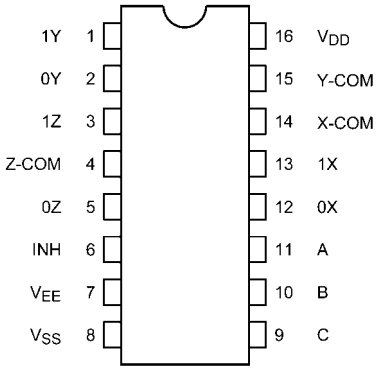
TC4051 (IC2002, 2003, 2004, 2009, 2010, 2011)



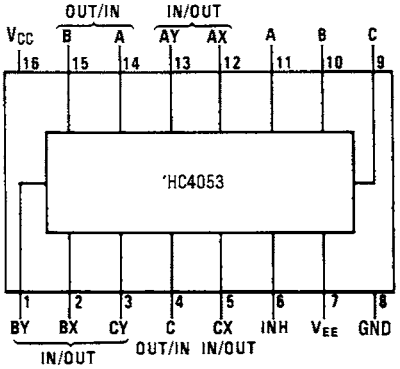
TC4052 (IC2014, 2015)



TC4053 (IC2006)



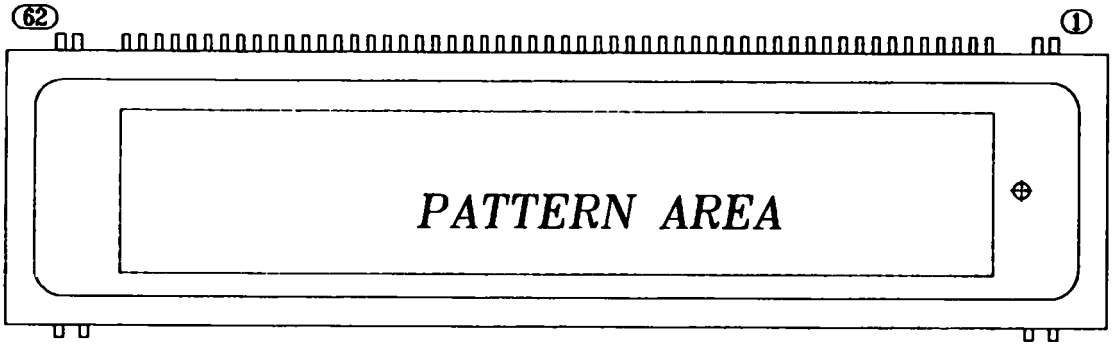
MM74HC4053 (IC2007)



Input				"ON" Channels		
Inh	C	B	A	C	b	a
H	X	X	X	None	None	None
L	L	L	L	CX	BX	AX
L	L	L	H	CX	BX	AY
L	L	H	L	CX	BY	AX
L	L	H	H	CX	BY	AY
L	H	L	L	CY	BX	AX
L	H	L	H	CY	BX	AY
L	H	H	L	CY	BY	AX
L	H	H	H	CY	BY	AY

2. FL DISPLAY

FLD (HCA-19MM02T) (FLT301)

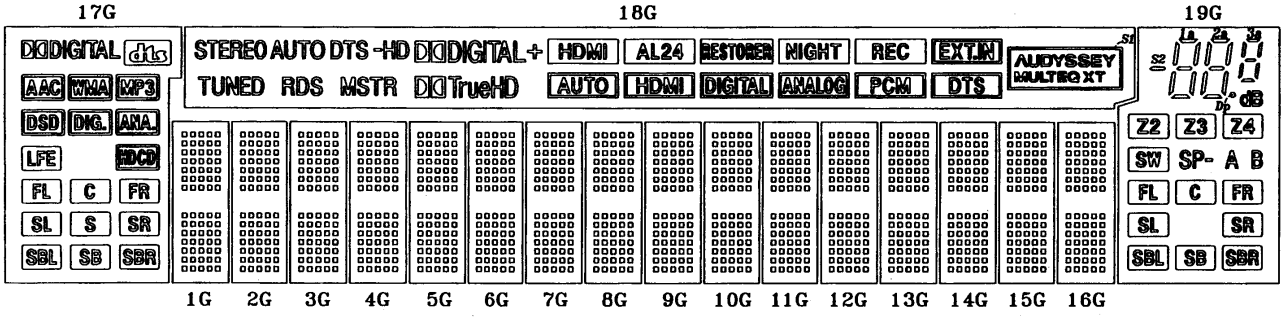


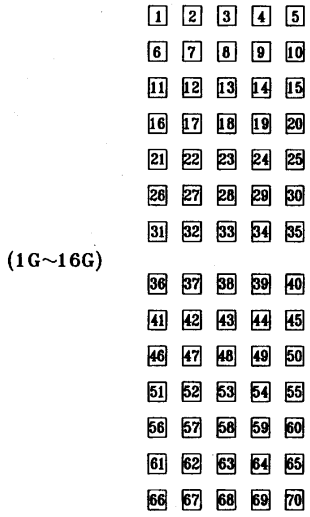
PIN CONNECTION

PIN NO.	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41~5	4	3	2	1
CONNECTION	F2	F2	NP	NP	VDISP	L-GND	D-GND	VDD	OSCO	$\overline{RESET}$	$\overline{CS}$	CP	DA	DO	TEST	Q 19G	Q 18G	Q 17G	17G	18G	19G	NX	NP	NP	F1	F1

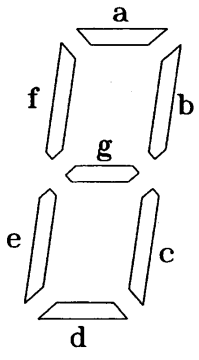
● Notes ●
1) Fn : Filament pin
2) nG : Grid pin
3) NX : No Extended pin
4) NP : No pin

GRID ASSIGNMENT





(1G~16G)



(19G)

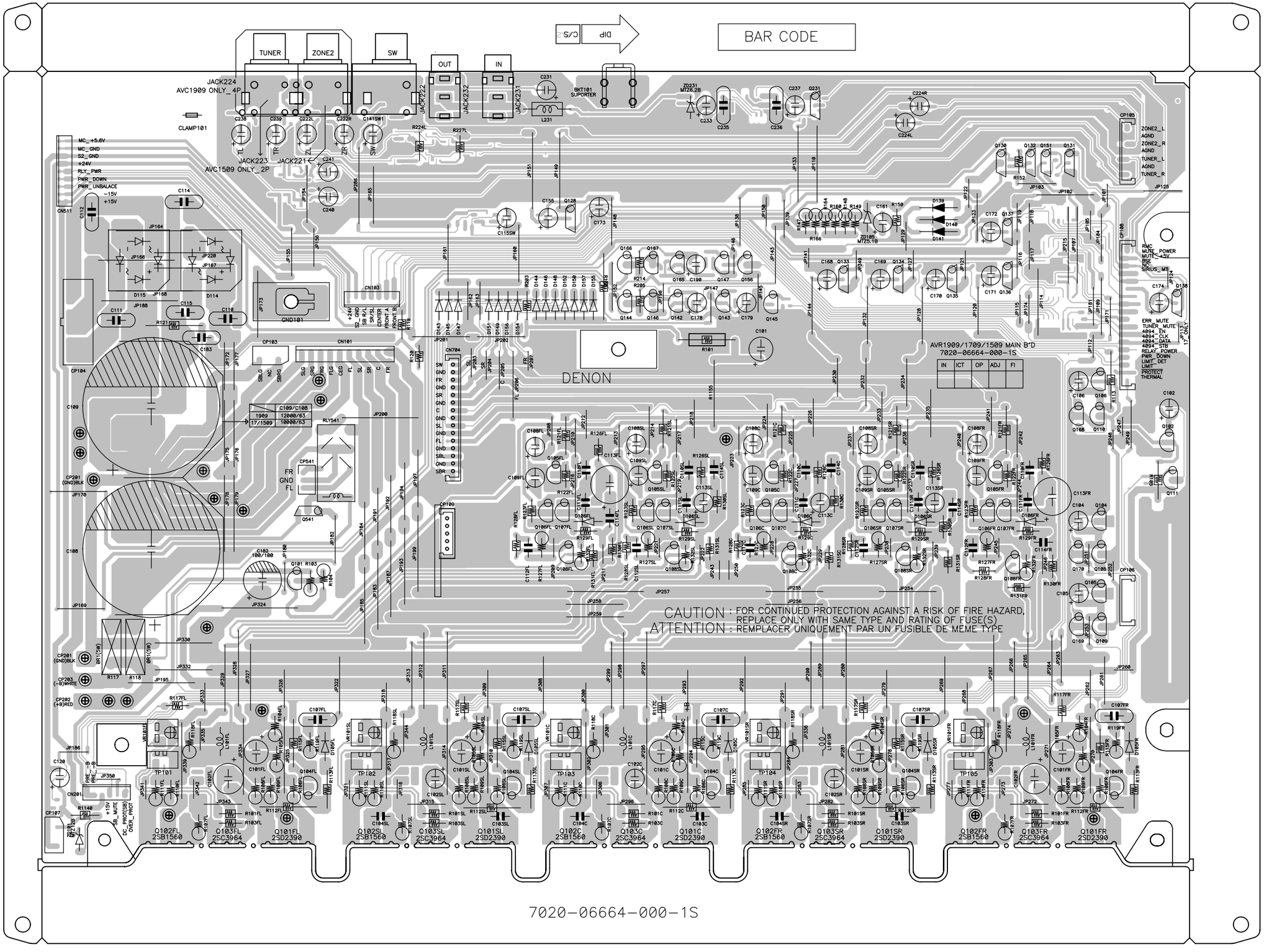
ANODE CONNECTION

	COM1～COM16	COM17	COM18	COM19
	1G～16G	17G	18G	19G
SEGB 1	1		XT	S2
SEGB 2	2		MULTEQ	1a
SEGB 3	3		AUDYSSEY	1b
SEGB 4	4		S1	1f
SEGB 5	5		DTS	1g
SEGB 6	6		EX.IN	1c
SEGB 7	7		PCM	1e
SEGB 8	8		REC	1d
SEGB 9	9	dts	ANALOG	2a
SEGB10	10	DIGITAL	NIGHT	2b
SEGB11	11		DIGITAL	2f
SEGB12	12		RESTORER	2g
SEGB13	13		HDMI	2c
SEGB14	14		AL24	2e
SEGB15	15		AUTO	2d
SEGB16	16		HDMI	3a
SEGB17	17	MP3	+	3b
SEGB18	18	WMA	TrueHD	3f
SEGB19	19	AAC	DIGITAL	3g
SEGB20	20		MSTR	3c
SEGB21	21		-HD	3e
SEGB22	22		DTS	3d
SEGB23	23		RDS	Dp
SEGB24	24	ANA.	AUTO	dB
SEGB25	25	DIG.	TUNED	Z2
SEGB26	26	DSD	STEREO	Z3
SEGB27	27			Z4
SEGB28	28			
SEGB29	29			
SEGB30	30			
SEGB31	31			
SEGB32	32			
SEGB33	33	96k		
SEGB34	34	LFE		
SEGB35	35			

	COM1～COM16	COM17	COM18	COM19
	1G～16G	17G	18G	19G
SEGA 1	36			
SEGA 2	37			
SEGA 3	38			SW
SEGA 4	39			SP-
SEGA 5	40			A
SEGA 6	41			B
SEGA 7	42			FL
SEGA 8	43	FR		C
SEGA 9	44	C		FR
SEGA 10	45	FL		SL
SEGA 11	46			SR
SEGA 12	47			SBL
SEGA 13	48			SB
SEGA 14	49			SBR
SEGA 15	50			
SEGA 16	51	SR		
SEGA 17	52	S		
SEGA 18	53	SL		
SEGA 19	54			
SEGA 20	55			
SEGA 21	56			
SEGA 22	57			
SEGA 23	58			
SEGA 24	59	SBR		
SEGA 25	60	SB		
SEGA 26	61	SBL		
SEGA 27	62			
SEGA 28	63			
SEGA 29	64			
SEGA 30	65			
SEGA 31	66			
SEGA 32	67			
SEGA 33	68			
SEGA 34	69			
SEGA 35	70			

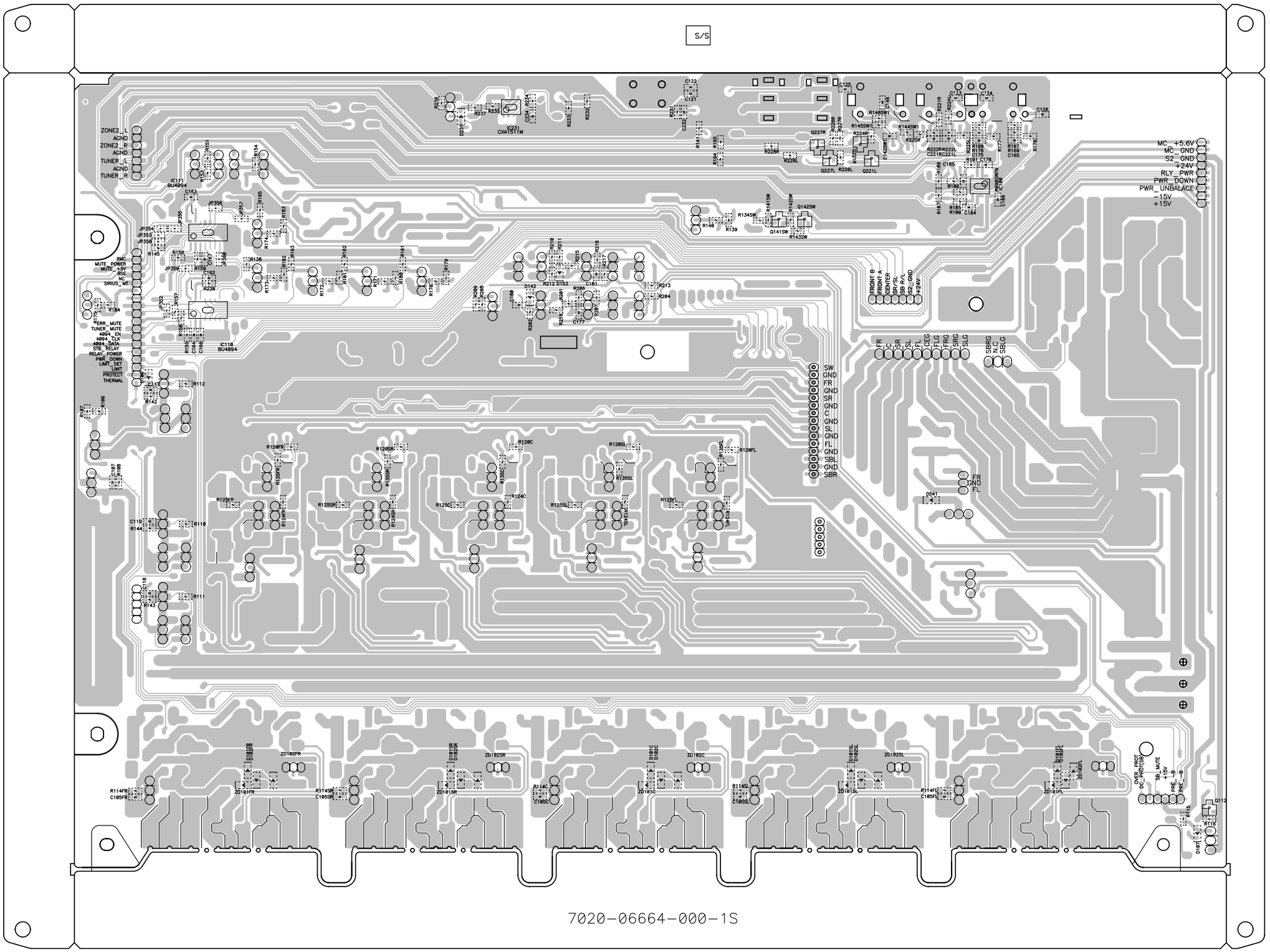
PRINTED WIRING BOARDS

MAIN P.W.B. UNIT(1/2)



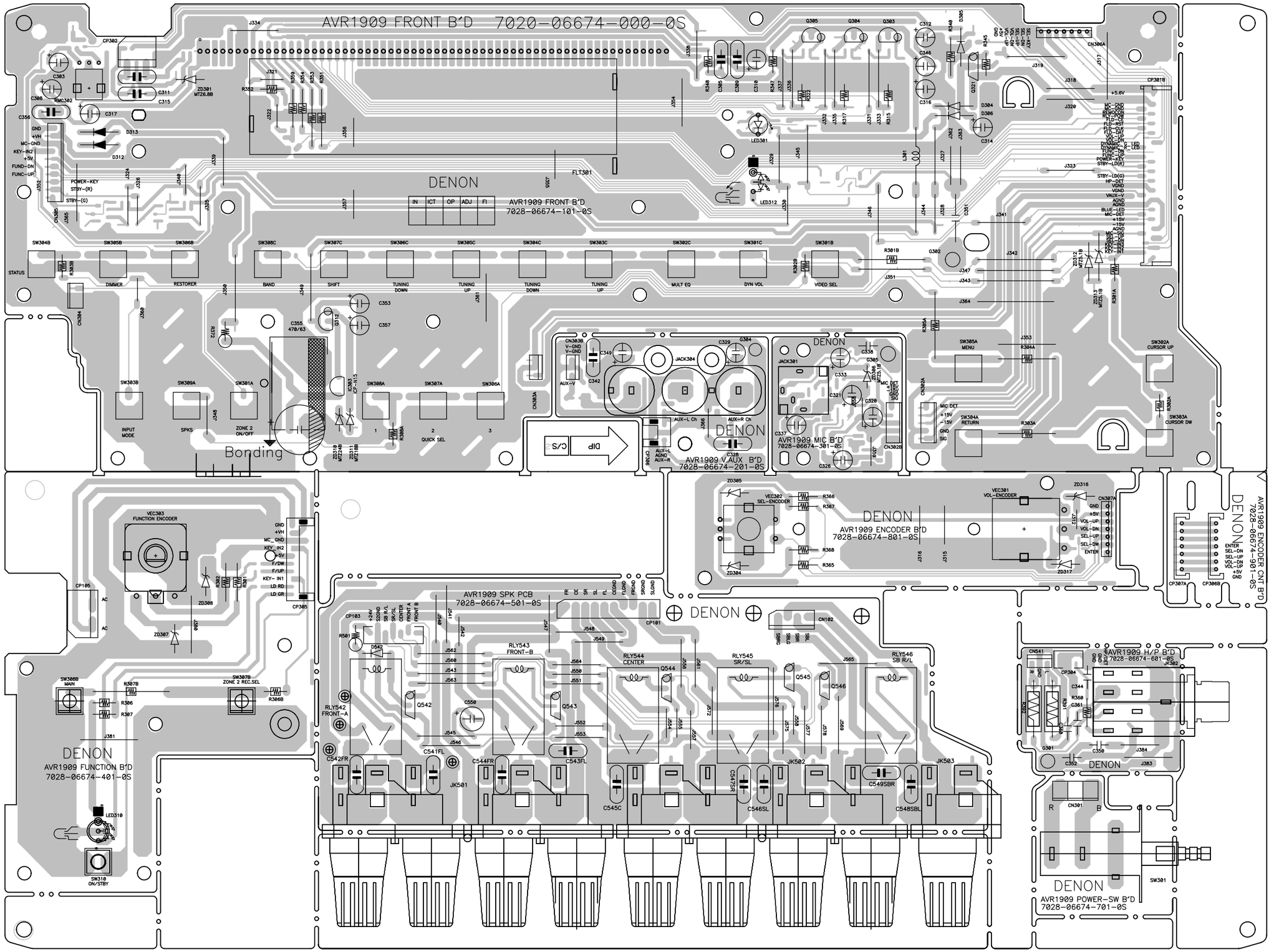
COMPONENT SIDE

MAIN P.W.B. UNIT(2/2)



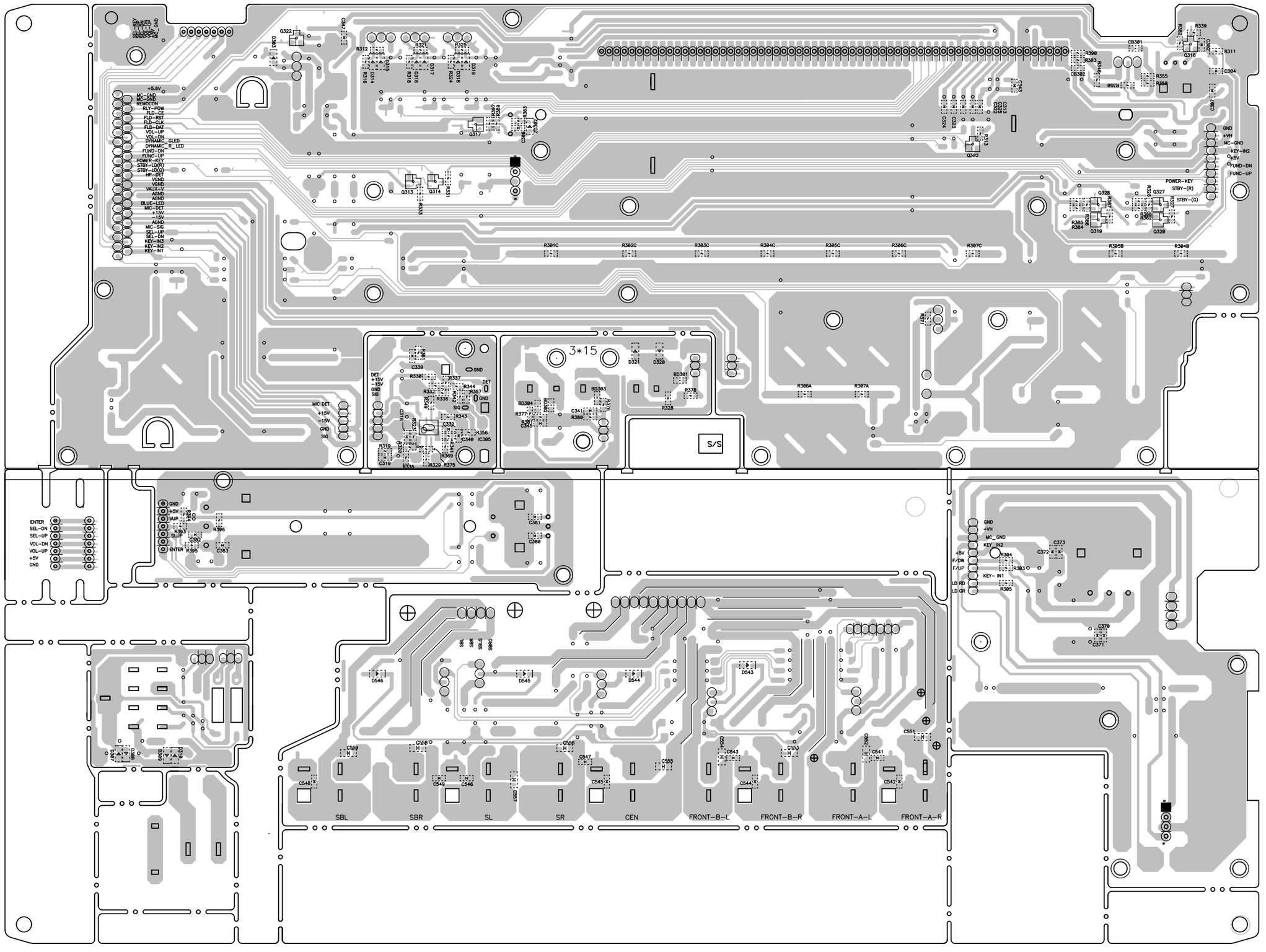
FOIL SIDE

FRONT P.W.B. UNIT (1/2)



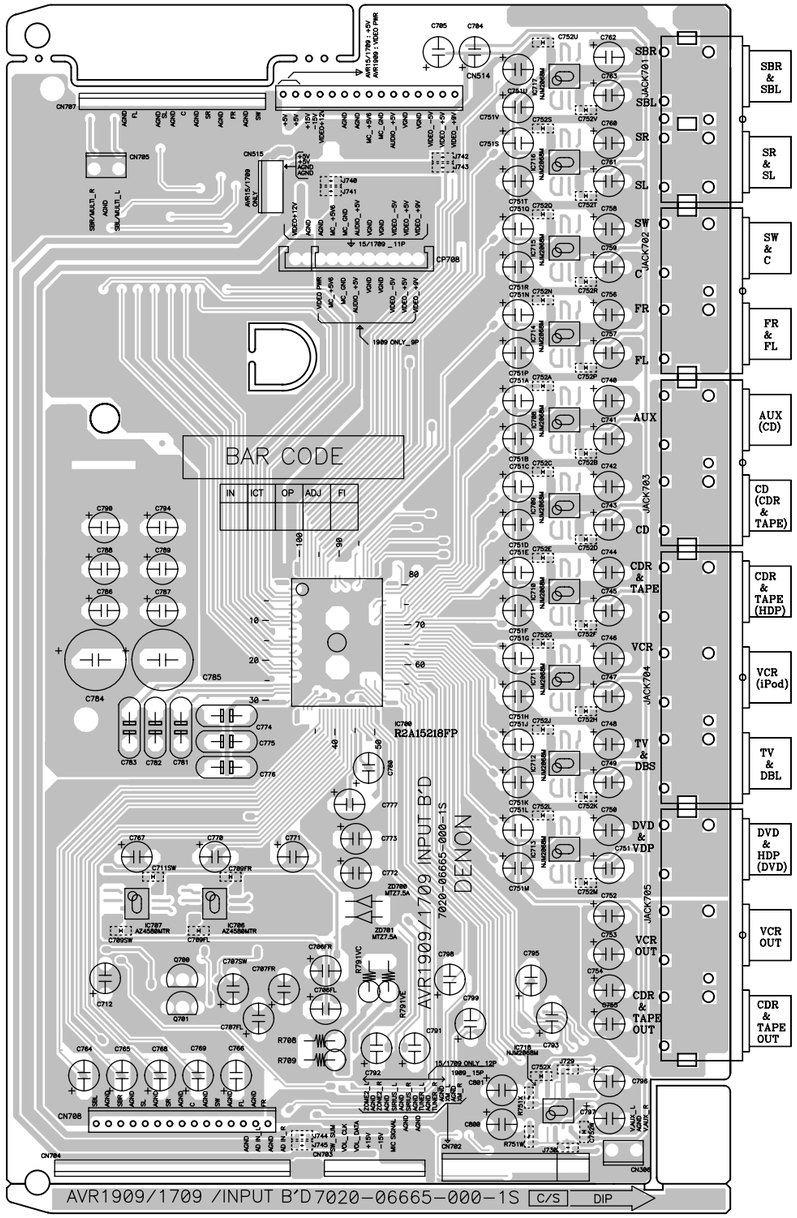
COMPONENT SIDE

FRONT P.W.B. UNIT (2/2)

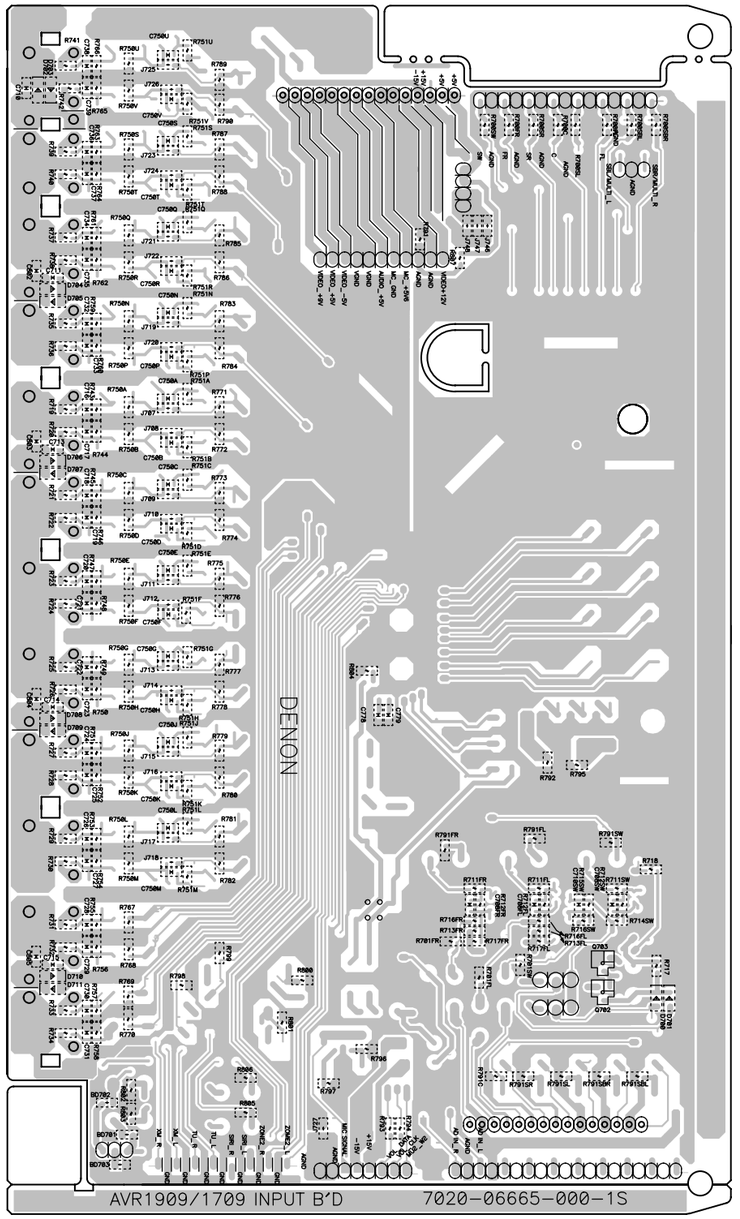


FOIL SIDE

INPUT P.W.B. UNIT

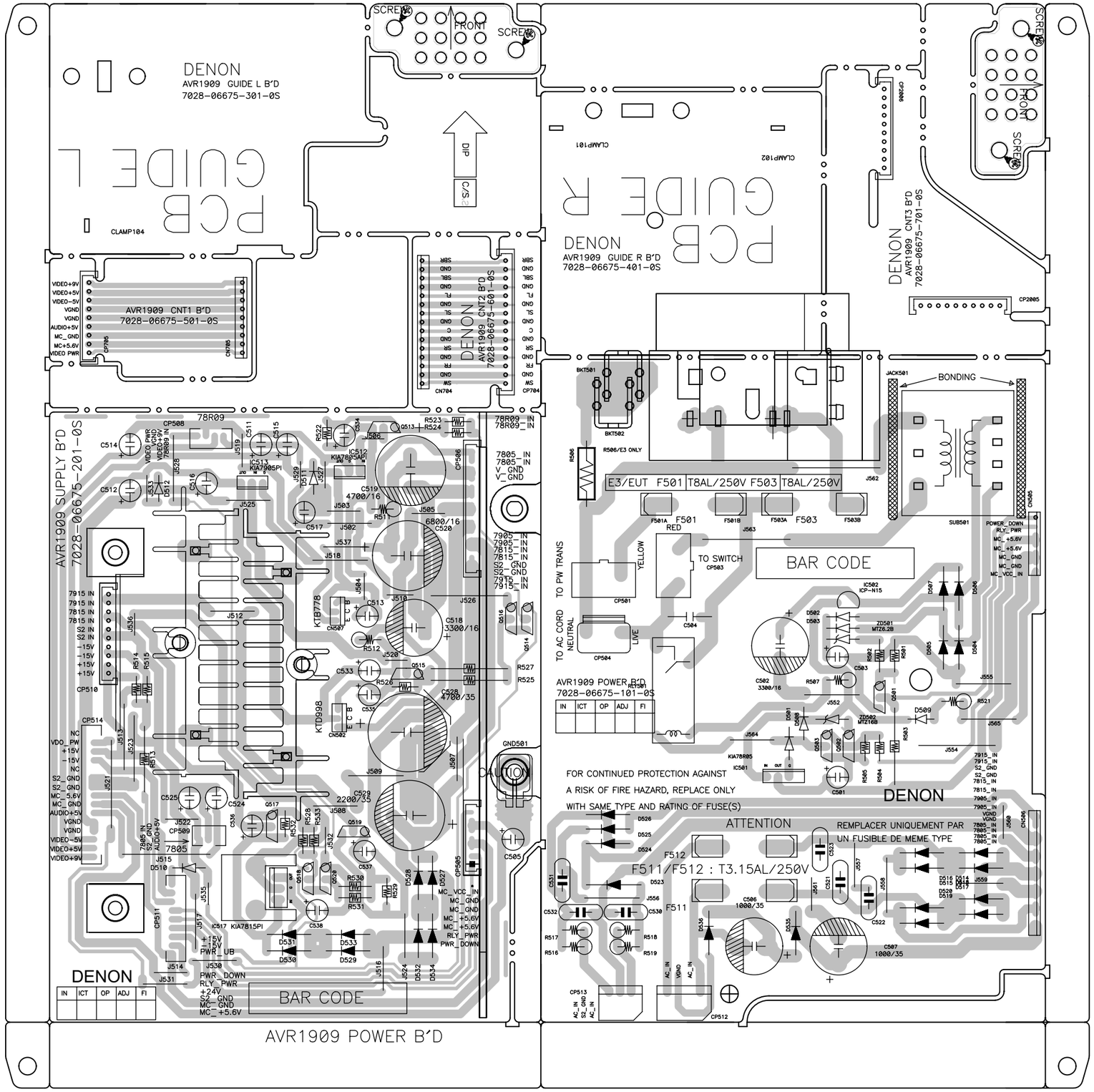


COMPONENT SIDE



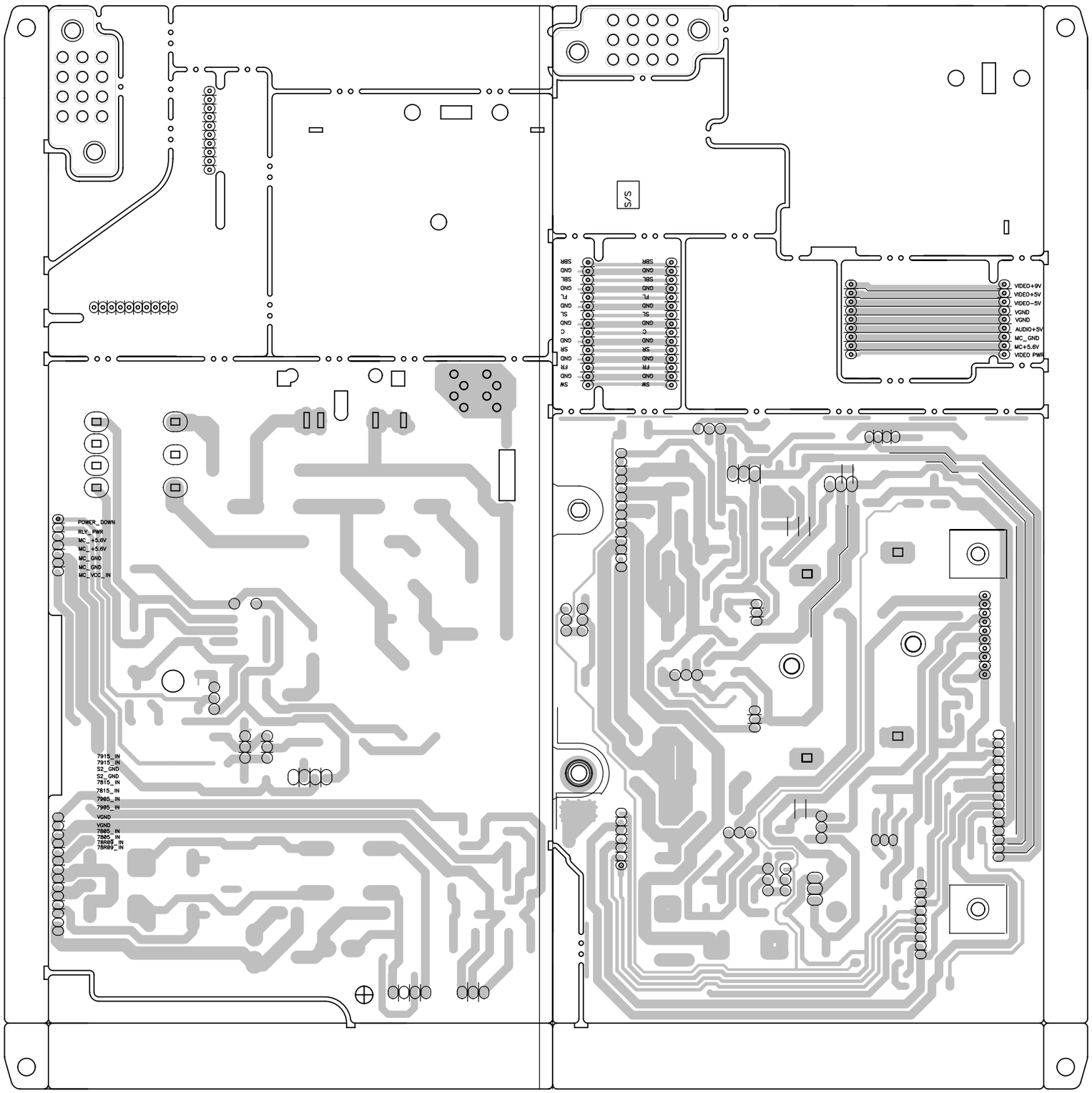
FOIL SIDE

POWER P.W.B. UNIT (1/2)



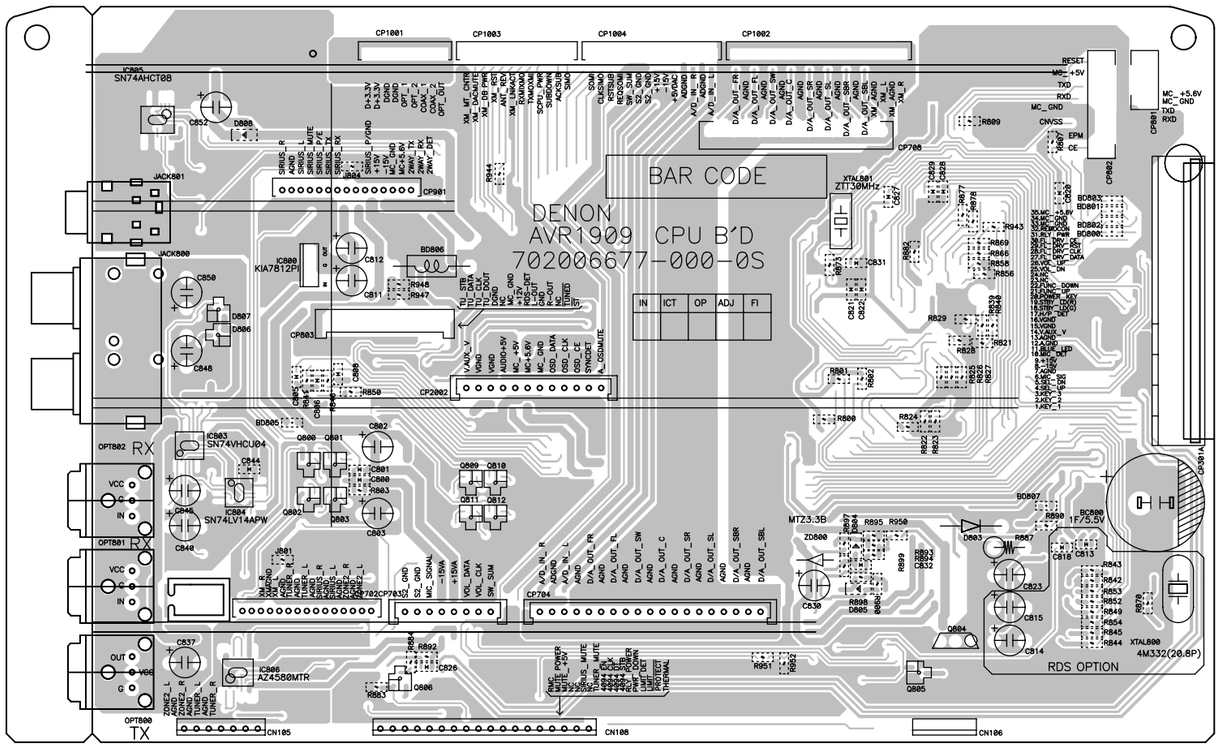
COMPONENT SIDE

POWER P.W.B. UNIT (2/2)

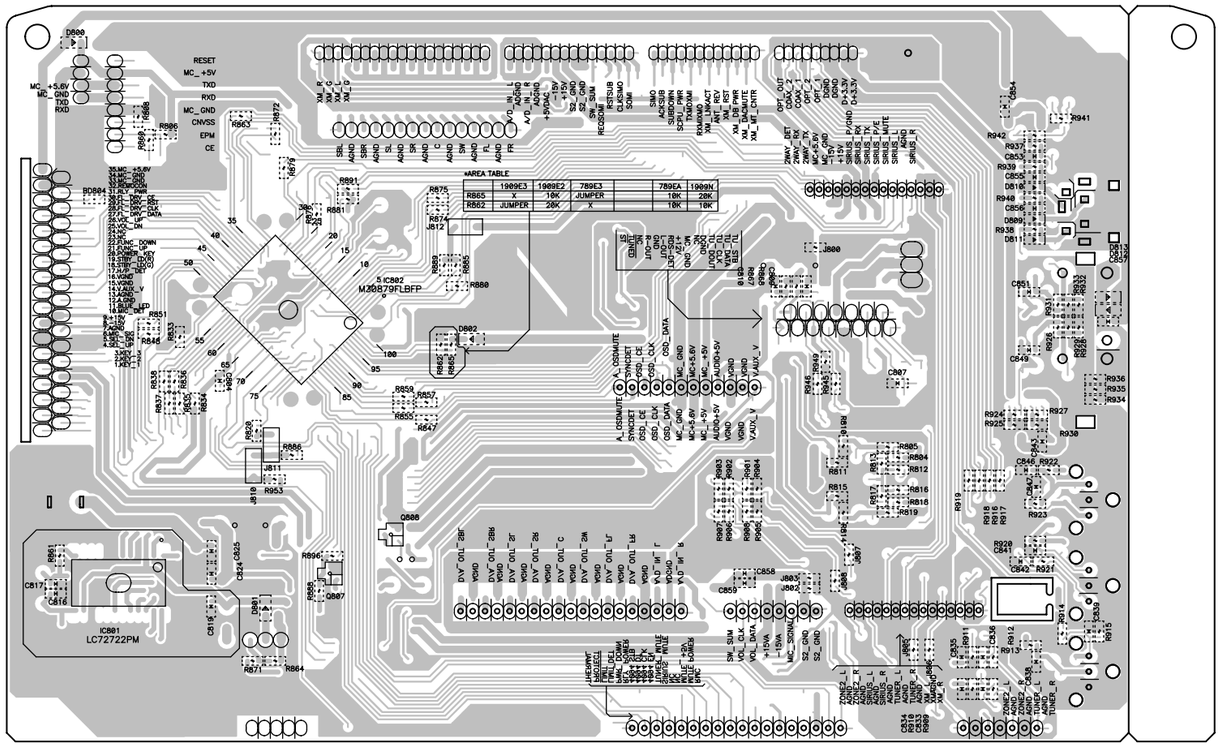


FOIL SIDE

CPU P.W.B. UNIT

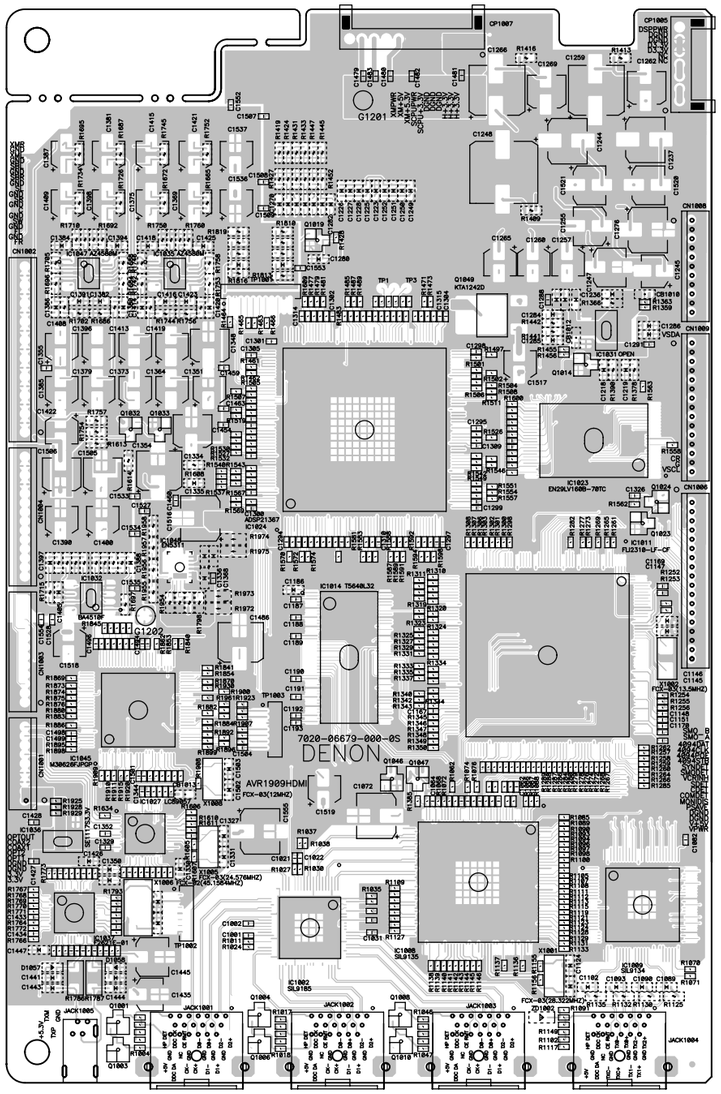


COMPONENT SIDE

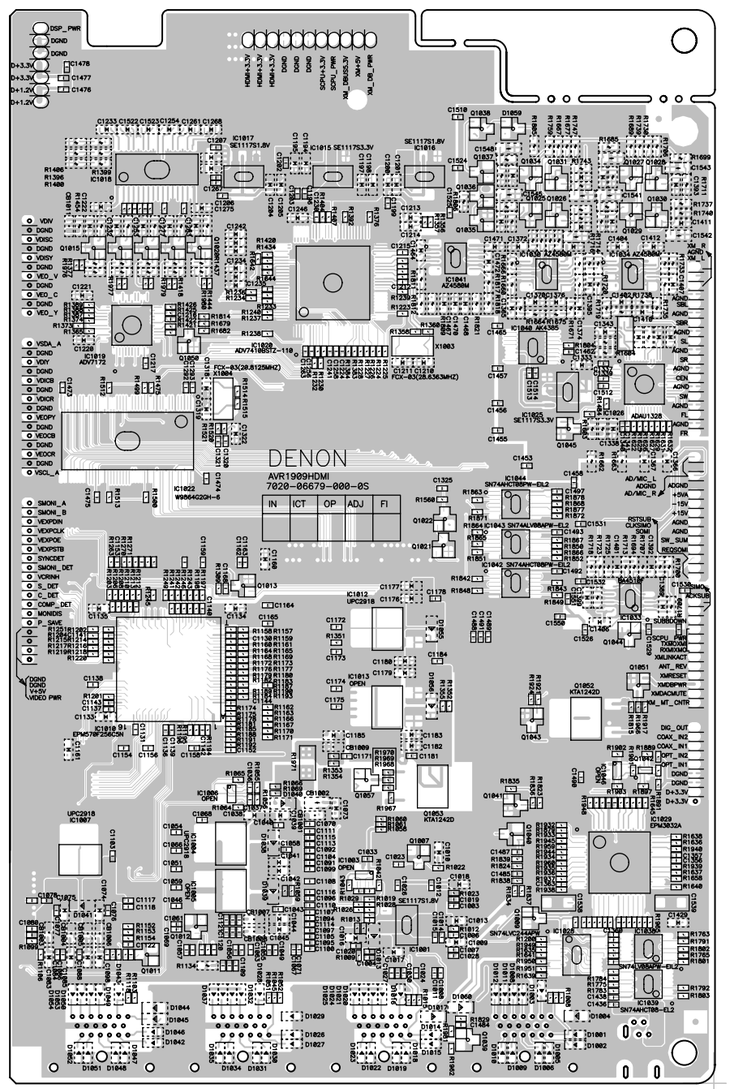


FOIL SIDE

HDMI P.W.B. UNIT

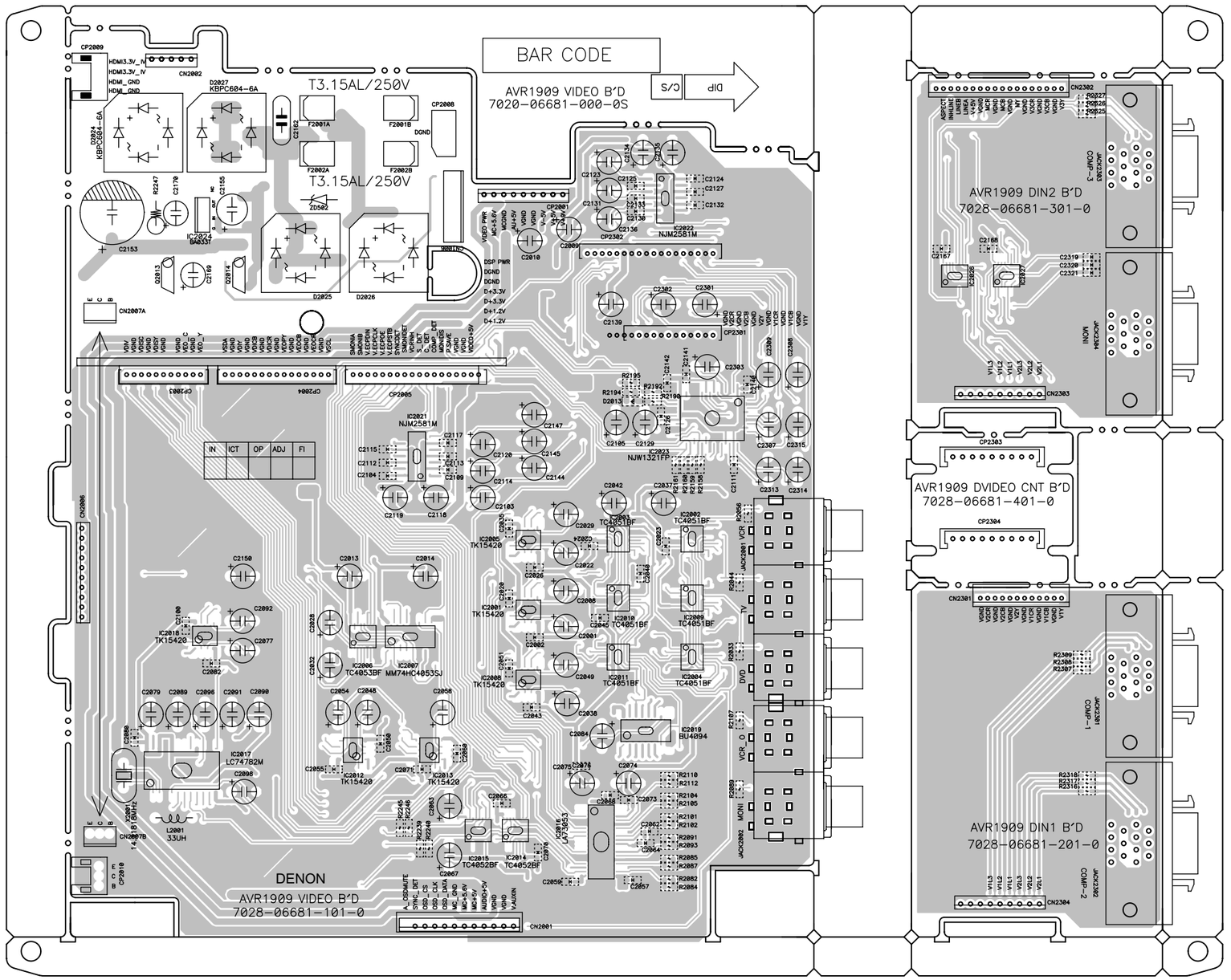


COMPONENT SIDE



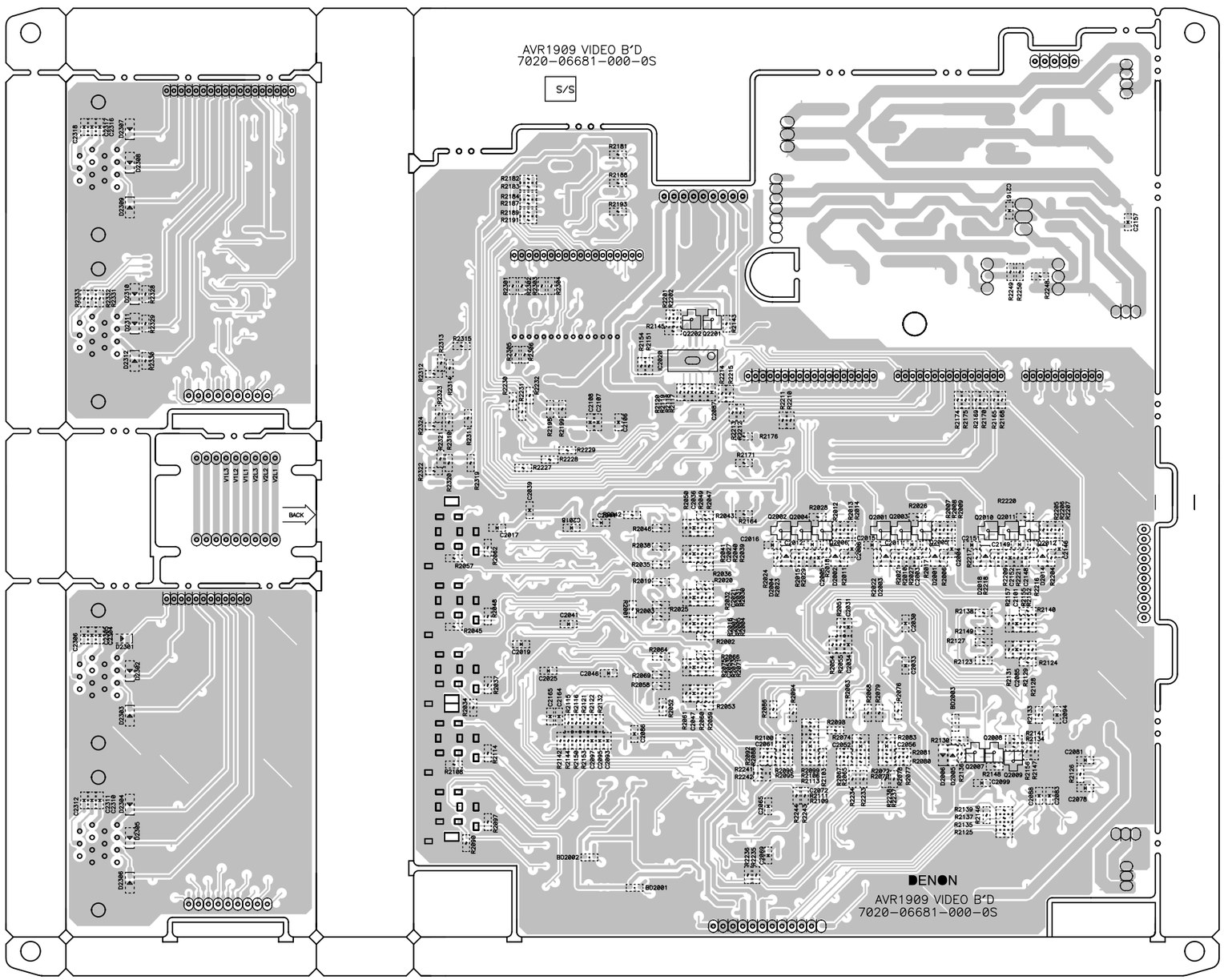
FOIL SIDE

VIDEO P.W.B. UNIT (1/2)



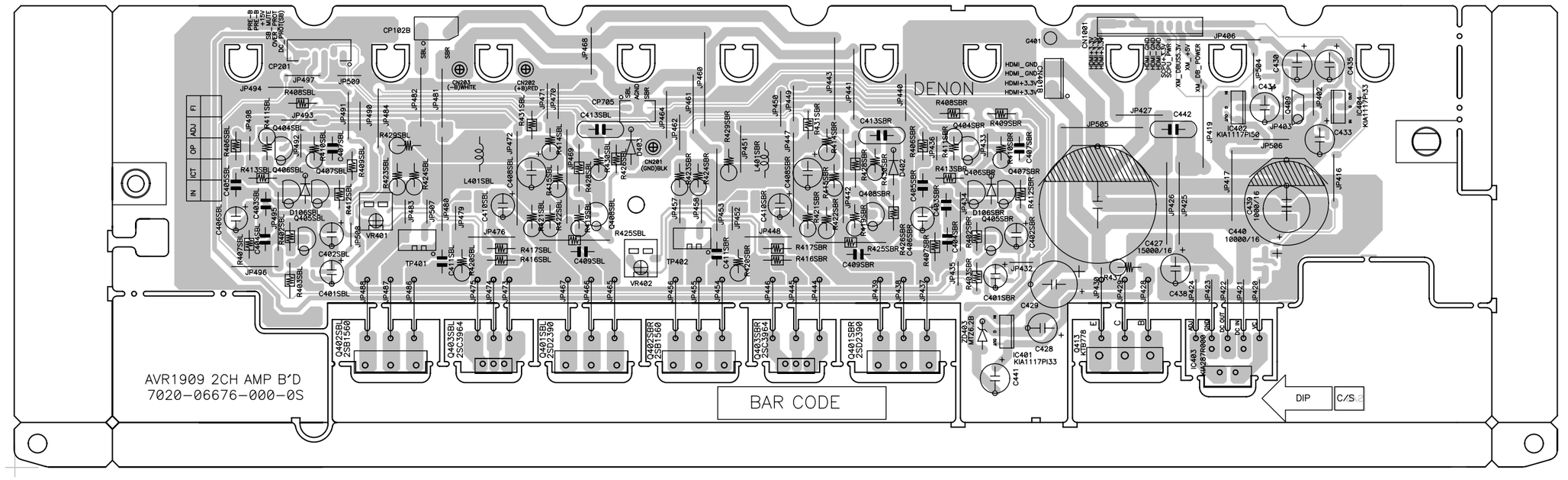
COMPONENT SIDE

VIDEO P.W.B. UNIT (2/2)

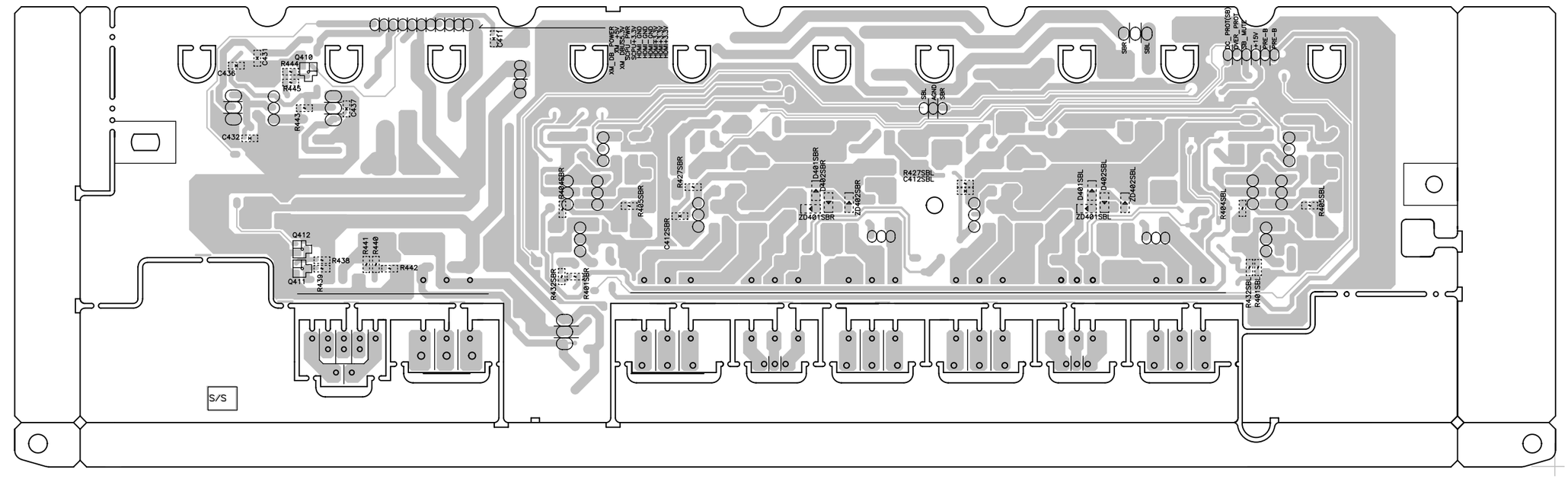


FOIL SIDE

2CH P.W.B. UNIT

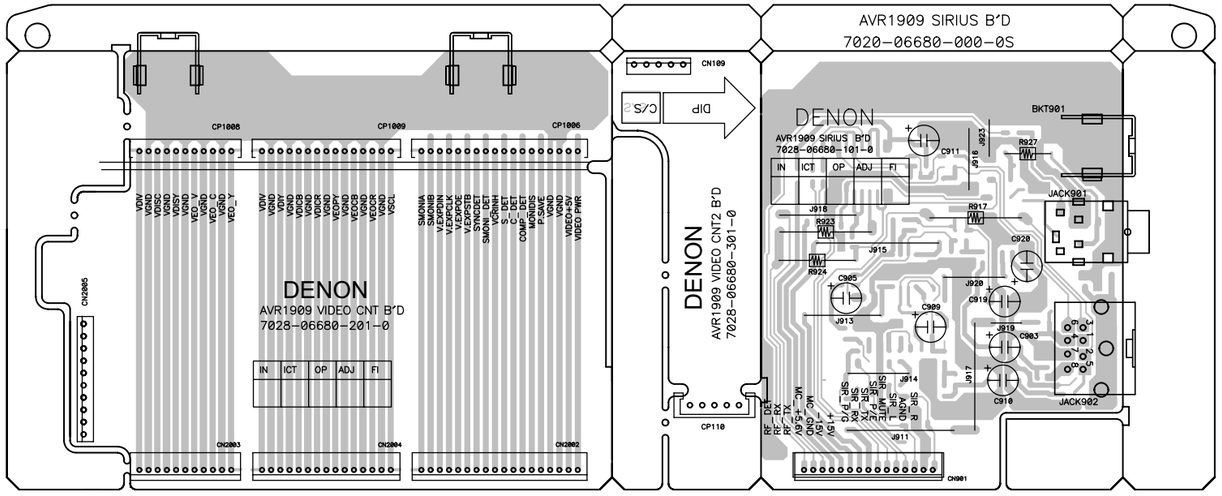


COMPONENT SIDE

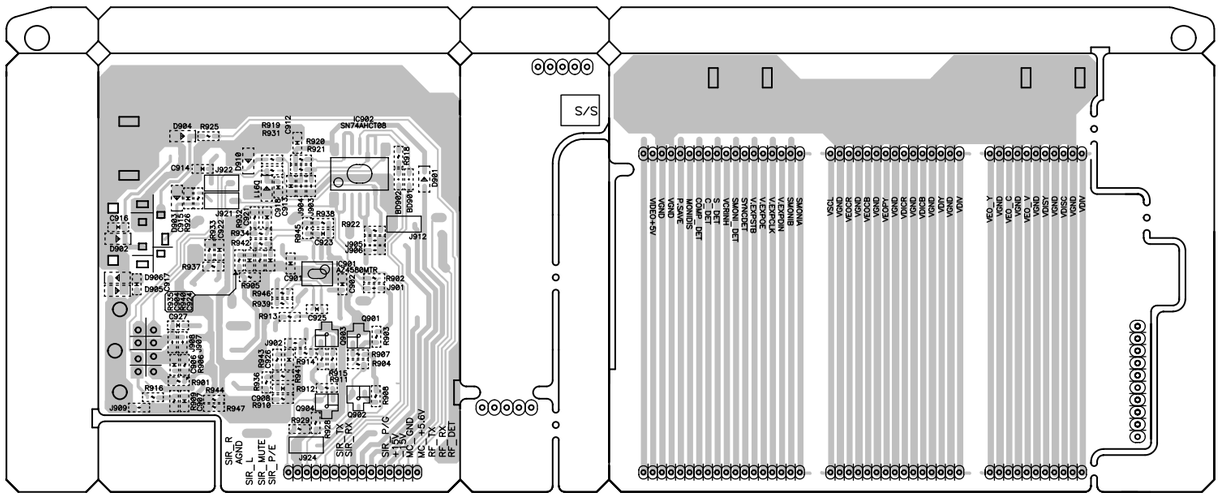


FOIL SIDE

SIRIUS P.W.B. UNIT

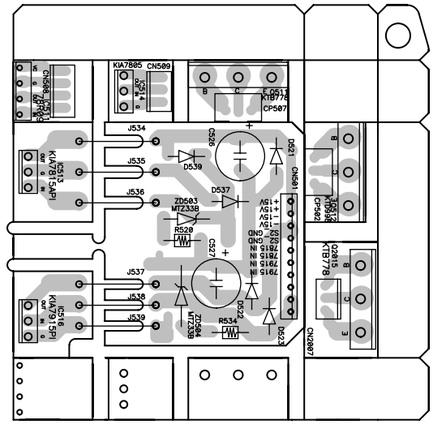


COMPONENT SIDE



FOIL SIDE

POWER REG P.W.B. UNIT



COMPONENT SIDE

---MEMO---

NOTE FOR PARTS LIST

- Parts for which "nsp" is indicated on this table cannot be supplied.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including General-purpose Carbon Film Resistor in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)
- Not including General-purpose Carbon Chip Resistor in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:
Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

部品表について

1．部品表に "nsp" と記載されている部品は供給できません。
2．部品を発注する際は特に数字の " 1 " と英字の " I " との区別をはっきり記入してください。
3．部品番号を表示していない部品は供給できません。
4．⚠ 印の部品は安全上重要な部品です。交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。
5．★印のついている部品は分解図中には記載していません。
6．汎用カーボン抵抗器は記載していません。定数は回路図を参照願います。
7．汎用カーボンチップ抵抗器は記載していません。定数は回路図を参照願います。
8．部品表の抵抗器、コンデンサの品名記号の読み方は表を参照してください。

● Resistors

Ex.: RN (Type) 14K (Shape and performance) 2E (Power) 182 (Resistance) G (Allowable error) FR (Others)

RD : Carbon RC : Composition RS : Metal oxide film RW : Winding RN : Metal film RK : Metal mixture	2B : 1/8W 2E : 1/4W 2H : 1/2W 3A : 1W 3D : 2W 3F : 3W 3H : 5W	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%	P : Pulse-resistant type NL : Low noise type NB : Non-burning type FR : Fuse-resistor F : Lead wire forming

✻ Resistance

1 8 2 ⇒ 1800 ohm = 1.8 kohm
Indicates number of zeros after effective number.
2-digit effective number.
• Units: ohm

1 R 2 ⇒ 1.2 ohm
1-digit effective number.
2-digit effective number, decimal point indicated by R.
• Units: ohm

● Capacitors

Ex.: CE (Type) 04W (Shape and performance) 1H (Dielectric strength) 2R2 (Capacity) M (Allowable error) BP (Others)

CE : Aluminum foil electrolytic CA : Aluminum solid electrolytic CS : Tantalum electrolytic CQ : Film CK : Ceramic CC : Ceramic CP : Oil CM : Mica CF : Metallized CH : Metallized	0J : 6.3V 1A : 10V 1C : 16V 1E : 25V 1V : 35V 1H : 50V 2A : 100V 2B : 125V 2C : 160V 2D : 200V 2E : 250V 2H : 500V 2J : 630V	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% −20% P : +100% −0% C : ±0.25pF D : ±0.5pF = : Others	HS : High stability type BP : Non-polar type HR : Ripple-resistant type DL : For change and discharge HF : For assuring high requency U : UL part C : CSA part W : UL-CSA type F : Lead wire forming

✻ Capacity (electrolyte only)

2 2 2 ⇒ 2200µF
Indicates number of zeros after effective number.
2-digit effective number.
• Units: µF.

2 R 2 ⇒ 2.2µF
1-digit effective number.
2-digit effective number, decimal point indicated by R.
• Units: µF.

✻ Capacity (except electrolyte)

2 2 2 (More than 2) ⇒ 2200pF=0.0022µF
Indicates number of zeros after effective number.
2-digit effective number.
• Units: pF.

2 2 1 (0 or 1) ⇒ 220pF
Indicates number of zeros after effective number.
2-digit effective number.
• Units: pF.

• When the dielectric strength is indicated in AC, "AC" is included after the dieelectric strength value.

●抵抗器

例) RN 種類 / 14K 形状特性 / 2E 電力 / 182 抵抗値 / G 許容差 / FR その他

RD : カーボン RC : 固定体 RS : 金属系皮膜 RW : 巻線 RN : 金属皮膜 RK : 金属混合体	2B : 1/8 W 2E : 1/4 W 2H : 1/2 W 3A : 1 W 3D : 2 W 3F : 3 W 3H : 5 W	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%	P : 耐パルス形 NL : 低雑音形 NB : 不燃形 FR : ヒューズ抵抗 F : リード線成形

＊抵抗値

18 2 ⇨ 1800Ω=1.8kΩ
有効数字につづく 0 の数を表わす。
2 桁の有効数字を表わす。

1R 2 ⇨ 1.2Ω
1 桁の有効数字を表わす。
2 桁の有効数字で小数点は R で表わす。
: 単位はΩ

●コンデンサ

例) CE 種類 / 04W 形状特性 / 1H 耐圧 / 2R2 容量 / M 許容差 / BP その他

CE : アルミ箔電解 CA : アルミ固体電解 CS : タンタル電解 CQ : フィルム CK : セラミック CC : セラミック CP : オイル CM : マイカ CF : メタライズド CH : メタライズド	0J : 6.3 V 1A : 10 V 1C : 16 V 1E : 25 V 1V : 35 V 1H : 50 V 2A : 100 V 2B : 125 V 2C : 160 V 2D : 200 V 2E : 250 V 2H : 500 V 2J : 630 V	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% −20% P : +100% − 0% C : ±0.25pF D : ±0.5pF = : その他	HS : 高安定形 BP : 無極性形 HR : 耐リップル形 DL : 充放電対策用 HF : 高周波保証用 U : UL 部品 C : CSA 部品 W : UL-CSA 部品 F : リード線成形

＊容量値

● 電解コンデンサの場合

22 2 ⇨ 2200µF
有効数字につづく 0 の数を表わす。
2 桁の有効数字を表わす。
: 単位はµF

2R 2 ⇨ 2.2µF
1 桁の有効数字を表わす。
2 桁の有効数字で小数点は R で表わす。
: 単位はµF

● 電解コンデンサ以外の場合

22 2 ⇨ 2200pF=0.0022µF
有効数字につづく 0 の数を表わす。
(0 の数が 2 以上の場合)
2 桁の有効数字を表わす。
: 単位はpF

22 1 ⇨ 220pF
有効数字につづく 0 の数を表わす。
(0 の数が 0 または 1 の場合)
2 桁の有効数字を表わす。
: 単位はpF

● 耐圧を交流で表示する場合は、耐圧表示の次に「AC」を表示します。

PARTS LIST OF P.W.B. UNIT

＊ 本表に "nsp" と記載されている部品は供給できません。
＊ Parts for which "nsp" is indicated on this table cannot be supplied.

＊ 本表に "nsp" と記載されている基板 ASS'Y は供給できません。基板 ASS'Y の修理の際には基板部品表を確認のうえ、交換部品を発注してください。
＊ P.W.B. ASS'Y for which "nsp" is indicated on this table cannot be supplied. When repairing the P.W.B. ASS'Y, check the board parts table and order replacement parts.

＊本表に記載されている部品は、補修用部品のため製品に使用している部品とは一部、形状、寸法などが異なる場合があります。
＊ The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.

Note: The symbols in the column "Remarks" indicate the following destinations.
E3 : U.S.A. & Canada model　　E2 : Europe model　　EA : Australia model
E1C : China model　　AVC1909 : Japan model

MAIN P.W.B. UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC100	963239001880S	IC AZ4580M	JP	J121458000020S		
	IC110,111	00D9630218807	IC BU4094BCF-E2		J040140940030S		
	IC231	00D9600174104	IC CXA1511M-T4		J030151100010S		
	Q101	00D9600196302	TR KTA1268BL		J5001268B0050S		
	Q102	00D9600196700	TR KTC3200BL		J5023200B0050S		
	Q104	00D9600196700	TR KTC3200BL		J5023200B0050S		
	Q104C	00D9600196700	TR KTC3200BL		J5023200B0050S		
	Q104FL	00D9600196700	TR KTC3200BL		J5023200B0050S		
	Q104FR	00D9600196700	TR KTC3200BL		J5023200B0050S		
	Q104SL	00D9600196700	TR KTC3200BL		J5023200B0050S		
	Q104SR	00D9600196700	TR KTC3200BL		J5023200B0050S		
	Q105,106	00D9600196700	TR KTC3200BL		J5023200B0050S		
	Q106C	00D9600196205	TR KSA992F		J5000992F0050S		
	Q106FL	00D9600196205	TR KSA992F		J5000992F0050S		
	Q106FR	00D9600196205	TR KSA992F		J5000992F0050S		
	Q106SL	00D9600196205	TR KSA992F		J5000992F0050S		
	Q106SR	00D9600196205	TR KSA992F		J5000992F0050S		
	Q107C	00D9600196205	TR KSA992F		J5000992F0050S		
	Q107FL	00D9600196205	TR KSA992F		J5000992F0050S		
	Q107FR	00D9600196205	TR KSA992F		J5000992F0050S		
	Q107SL	00D9600196205	TR KSA992F		J5000992F0050S		
	Q107SR	00D9600196205	TR KSA992F		J5000992F0050S		
	Q108	00D9600196700	TR KTC3200BL		J5023200B0050S		
	Q108C	00D9600196700	TR KTC3200BL		J5023200B0050S		
	Q108FL	00D9600196700	TR KTC3200BL		J5023200B0050S		
	Q108FR	00D9600196700	TR KTC3200BL		J5023200B0050S		
	Q108SL	00D9600196700	TR KTC3200BL		J5023200B0050S		
	Q108SR	00D9600196700	TR KTC3200BL		J5023200B0050S		
	Q109,110	00D9600196700	TR KTC3200BL		J5023200B0050S		
	Q111	00D9600196302	TR KTA1268BL		J5001268B0050S		
	Q112	00D9630121509	TR KTC3875S		J522038750210S		
	Q128	00D9600097207	TR KRA102M		J6002202M0010S		
	Q130	00D9600196302	TR KTA1268BL		J5001268B0050S		
	Q131,132	00D9630219602	TR KRC106M		J6020106M0010S		
	Q133-138	00D9600097207	TR KRA102M		J6002202M0010S		
	Q141SW	00D9630044301	TR KTC2875B(MB)		J5222875B0010S		
	Q142	00D9600196700	TR KTC3200BL		J5023200B0050S		
	Q142SW	00D9630044301	TR KTC2875B(MB)		J5222875B0010S		
	Q143,144	00D9600196302	TR KTA1268BL		J5001268B0050S		
	Q145	00D9600196700	TR KTC3200BL		J5023200B0050S		
	Q146,147	00D9600196302	TR KTA1268BL		J5001268B0050S		
	Q151	00D9600196302	TR KTA1268BL		J5001268B0050S		
	Q156	00D9600097304	TR KRC102M		J6020102M0010S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New	
	Q165	00D9600196700	TR KTC3200BL		J5023200B0050S			
	Q166-170	00D9600196302	TR KTA1268BL		J5001268B0050S			
	Q221L	00D9630044301	TR KTC2875B(MB)		J5222875B0010S			
	Q221R	00D9630044301	TR KTC2875B(MB)		J5222875B0010S			
	Q227L	00D9630044301	TR KTC2875B(MB)		J5222875B0010S			
	Q227R	00D9630044301	TR KTC2875B(MB)		J5222875B0010S			
	Q231	00D9600097003	TR KRA104M		J6000104M0010S			
	Q541	00D9630121208	TR KRC107M		J6020107M0010S			
	D101C	00D9630355401	D,SWITCHING KDS4148U		K005041480030S			
	D101FL	00D9630355401	D,SWITCHING KDS4148U		K005041480030S			
	D101FR	00D9630355401	D,SWITCHING KDS4148U		K005041480030S			
	D101SL	00D9630355401	D,SWITCHING KDS4148U		K005041480030S			
	D101SR	00D9630355401	D,SWITCHING KDS4148U		K005041480030S			
	D102C	00D9630355401	D,SWITCHING KDS4148U		K005041480030S			
	D102FL	00D9630355401	D,SWITCHING KDS4148U		K005041480030S			
	D102FR	00D9630355401	D,SWITCHING KDS4148U		K005041480030S			
	D102SL	00D9630355401	D,SWITCHING KDS4148U		K005041480030S			
	D102SR	00D9630355401	D,SWITCHING KDS4148U		K005041480030S			
	D105C	00D9630020309	D,SWITCHING 1SS133T		K000013300520S			
	D105FL	00D9630020309	D,SWITCHING 1SS133T		K000013300520S			
	D105FR	00D9630020309	D,SWITCHING 1SS133T		K000013300520S			
	D105SL	00D9630020309	D,SWITCHING 1SS133T		K000013300520S			
	D105SR	00D9630020309	D,SWITCHING 1SS133T		K000013300520S			
	D106	00D9630355401	D,SWITCHING KDS4148U		K005041480030S			
	D106C	00D9630020309	D,SWITCHING 1SS133T		K000013300520S			
	D106FL	00D9630020309	D,SWITCHING 1SS133T		K000013300520S			
	D106FR	00D9630020309	D,SWITCHING 1SS133T		K000013300520S			
	D106SL	00D9630020309	D,SWITCHING 1SS133T		K000013300520S			
	D106SR	00D9630020309	D,SWITCHING 1SS133T		K000013300520S			
	D107	00D9630355401	D,SWITCHING KDS4148U		K005041480030S			
	D114,115	00D2760338007	D,RECTIFIER BRIDGE S4VB20-5001L20	E2, EA, JP	K047400400020S			
	D114,115	00D9600197107	D,RECTIFIER BRIDGE KBPC604	E3	K047604000020S			
	D139	00D9630020309	D,SWITCHING 1SS133T		K000013300520S			
	D140,141	00D9630328409	D,SWITCHING 1N4007		K000400700010S			
	D142	00D9630355401	D,SWITCHING KDS4148U		K005041480030S			
	D143-152	00D9630020309	D,SWITCHING 1SS133T		K000013300520S			
	D153	00D9630355401	D,SWITCHING KDS4148U		K005041480030S			
	D154-157	00D9630020309	D,SWITCHING 1SS133T		K000013300520S			
	D231	00D9630355401	D,SWITCHING KDS4148U		K005041480030S			
	D541	00D9630355401	D,SWITCHING KDS4148U		K005041480030S			
	ZD101	00D9630058601	D,ZENER MTZJ12B		K06012R044520S			
	ZD101C	00D9630367008	D,ZENER 0.2W 3.3V UDZ		K06603R34P400S			
	ZD101FL	00D9630367008	D,ZENER 0.2W 3.3V UDZ		K06603R34P400S			
	ZD101FR	00D9630367008	D,ZENER 0.2W 3.3V UDZ		K06603R34P400S			
	ZD101SL	00D9630367008	D,ZENER 0.2W 3.3V UDZ		K06603R34P400S			
	ZD101SR	00D9630367008	D,ZENER 0.2W 3.3V UDZ		K06603R34P400S			
	ZD102C	00D9630382209	D,ZENER 0.2W 3.0V UDZ		K06603R04P400S			⚠2
	ZD102FL	00D9630382209	D,ZENER 0.2W 3.0V UDZ		K06603R04P400S			⚠2
	ZD102FR	00D9630382209	D,ZENER 0.2W 3.0V UDZ		K06603R04P400S			⚠2
	ZD102SL	00D9630382209	D,ZENER 0.2W 3.0V UDZ		K06603R04P400S			⚠2
	ZD102SR	00D9630382209	D,ZENER 0.2W 3.0V UDZ		K06603R04P400S			⚠2
	ZD105	00D9600095500	D,ZENER MTZJ5.1B		K06005R144520S			
	ZD231	00D9600095704	D,ZENER MTZJ6.2B		K06006R244520S			

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
RESISTORS GROUP							
	R101	00D9630337801	R,METAL FILM 100-J,2W	E3	C060010166520S		
	R103	00D9639005639	R,METAL FILM 100-J,1W		C060010165060S		
	R104	00D9630215907	R,METAL FILM 4.7-J,1W		C0604R7065050S		
	R104C	00D9639006285	R,FIXED 1WJ-5.6K		N1131356562205		
	R104FL	00D9639006285	R,FIXED 1WJ-5.6K		N1131356562205		
	R104FR	00D9639006285	R,FIXED 1WJ-5.6K		N1131356562205		
	R104SL	00D9639006285	R,FIXED 1WJ-5.6K		N1131356562205		
	R104SR	00D9639006285	R,FIXED 1WJ-5.6K		N1131356562205		
	R105	00D9630232906	R,METAL FILM 47K-F,1/4W		C0600473435305		
	R105C	00D9639006285	R,FIXED 1WJ-5.6K		N1131356562205		
	R105FL	00D9639006285	R,FIXED 1WJ-5.6K		N1131356562205		
	R105FR	00D9639006285	R,FIXED 1WJ-5.6K		N1131356562205		
	R105SL	00D9639006285	R,FIXED 1WJ-5.6K		N1131356562205		
	R105SR	00D9639006285	R,FIXED 1WJ-5.6K		N1131356562205		
	R106C	00D9630215907	R,METAL FILM 4.7-J,1W		C0604R7065050S		
	R106FL	00D9630215907	R,METAL FILM 4.7-J,1W		C0604R7065050S		
	R106FR	00D9630215907	R,METAL FILM 4.7-J,1W		C0604R7065050S		
	R106SL	00D9630215907	R,METAL FILM 4.7-J,1W		C0604R7065050S		
	R106SR	00D9630215907	R,METAL FILM 4.7-J,1W		C0604R7065050S		
	R107C	00D9630215907	R,METAL FILM 4.7-J,1W		C0604R7065050S		
	R107FL	00D9630215907	R,METAL FILM 4.7-J,1W		C0604R7065050S		
	R107FR	00D9630215907	R,METAL FILM 4.7-J,1W		C0604R7065050S		
	R107SL	00D9630215907	R,METAL FILM 4.7-J,1W		C0604R7065050S		
	R107SR	00D9630215907	R,METAL FILM 4.7-J,1W		C0604R7065050S		
	R108C	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R108FL	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R108FR	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R108SL	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R108SR	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R109C	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R109FL	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R109FR	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R109SL	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R109SR	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R110C	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R110FL	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R110FR	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R110SL	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R110SR	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R111C	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R111FL	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R111FR	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R111SL	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R111SR	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R117,118	00D9630144502	R,CEMENT 0.1-J 5W		C141R10069000S		
	R118C	00D9639006256	R,FIXED 1WJ-10		N1131356100205		
	R118FL	00D9639006256	R,FIXED 1WJ-10		N1131356100205		
	R118FR	00D9639006256	R,FIXED 1WJ-10		N1131356100205		
	R118SL	00D9639006256	R,FIXED 1WJ-10		N1131356100205		
	R118SR	00D9639006256	R,FIXED 1WJ-10		N1131356100205		
	R119C	00D9639006256	R,FIXED 1WJ-10		N1131356100205		
	R119FL	00D9639006256	R,FIXED 1WJ-10		N1131356100205		
	R119FR	00D9639006256	R,FIXED 1WJ-10		N1131356100205		
	R119SL	00D9639006256	R,FIXED 1WJ-10		N1131356100205		
	R119SR	00D9639006256	R,FIXED 1WJ-10		N1131356100205		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R127C	00D9639005642	R,METAL FILM 1.2K-J,1W		C060012265050S		
	R127FL	00D9639005642	R,METAL FILM 1.2K-J,1W		C060012265050S		
	R127FR	00D9639005642	R,METAL FILM 1.2K-J,1W		C060012265050S		
	R127SL	00D9639005642	R,METAL FILM 1.2K-J,1W		C060012265050S		
	R127SR	00D9639005642	R,METAL FILM 1.2K-J,1W		C060012265050S		
	R132C	00D9609010719	R,METAL FILM 47-J,1W		C060047065060S		
	R132FL	00D9609010719	R,METAL FILM 47-J,1W		C060047065060S		
	R132FR	00D9609010719	R,METAL FILM 47-J,1W		C060047065060S		
	R132SL	00D9609010719	R,METAL FILM 47-J,1W		C060047065060S		
	R132SR	00D9609010719	R,METAL FILM 47-J,1W		C060047065060S		
	R147-149	00D9630310404	R,METAL FILM 2.2K-J,1W		C060022265050S		
	R160	00D9630310404	R,METAL FILM 2.2K-J,1W		C060022265050S		
	R164	00D9630310404	R,METAL FILM 2.2K-J,1W		C060022265050S		
	R166	00D9630310404	R,METAL FILM 2.2K-J,1W		C060022265050S		
	VR101C	00D9600221109	VR,SEMI CARBON EVN-DJAA03B		C541102115000S		
	VR101FL	00D9600221109	VR,SEMI CARBON EVN-DJAA03B		C541102115000S		
	VR101FR	00D9600221109	VR,SEMI CARBON EVN-DJAA03B		C541102115000S		
	VR101SL	00D9600221109	VR,SEMI CARBON EVN-DJAA03B		C541102115000S		
	VR101SR	00D9600221109	VR,SEMI CARBON EVN-DJAA03B		C541102115000S		
CAPACITORS GROUP							
	C101	00D2544580712	C,ELECT 100UF-M/50V	E2, EA, JP	D040101087150S		
	C101	00D9639005804	C,ELECT 100UF-M/25V	E3	D040101084060S		
	C101C	00D9630234205	C,ELECT 10UF-M/50V	E2, EA, JP	D040100087070S		
	C101C	00D9630234506	C,ELECT 47UF-M/50V (Pb Free)	E3	D0404700870705		
	C101FL	00D2544583942	C,ELECT 10UF-M/50V	E2, EA, JP	D040100087110S		
	C101FL	00D9630234506	C,ELECT 47UF-M/50V (Pb Free)	E3	D0404700870705		
	C101FR	00D2544583942	C,ELECT 10UF-M/50V	E2, EA, JP	D040100087110S		
	C101FR	00D9630234506	C,ELECT 47UF-M/50V (Pb Free)	E3	D0404700870705		
	C101SL	00D9630234205	C,ELECT 10UF-M/50V	E2, EA, JP	D040100087070S		
	C101SL	00D9630234506	C,ELECT 47UF-M/50V (Pb Free)	E3	D0404700870705		
	C101SR	00D9630234205	C,ELECT 10UF-M/50V	E2, EA, JP	D040100087070S		
	C101SR	00D9630234506	C,ELECT 47UF-M/50V (Pb Free)	E3	D0404700870705		
	C102	00D9630234506	C,ELECT 47UF-M/50V (Pb Free)		D0404700870705		
	C102C	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C102FL	00D9609009937	C,ELECT 100UF-M/50V	E2, EA, JP	D040101087060S		
	C102FL	00D9609010133	C,ELECT 220UF-M/35V	E3	D040221085060S		
	C102FR	00D9609009937	C,ELECT 100UF-M/50V	E2, EA, JP	D040101087060S		
	C102FR	00D9609010133	C,ELECT 220UF-M/35V	E3	D040221085060S		
	C102SL	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C102SR	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C104,105	00D9639006557	C,ELECT 220UF-M/6.3V		D040221081060S		
	C106	00D9630293709	C,ELECT 100UF-M/10V		D040101082070S		
	C107	nsp	C,CERAMIC 0.01UF-K/50V		D010103777160S		
	C107C	nsp	C,FILM 0.1UF-J/50V		D020104167050S		
	C107FL	nsp	C,FILM 0.1UF-J/50V		D020104167050S		
	C107FR	nsp	C,FILM 0.1UF-J/50V		D020104167050S		
	C107SL	nsp	C,FILM 0.1UF-J/50V		D020104167050S		
	C107SR	nsp	C,FILM 0.1UF-J/50V		D020104167050S		
	C108,109	00D2546276008	C,ELECT 12000UF-M/71V(VSSN)		D040123089020S		
	C109C	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C109FL	00D2544583942	C,ELECT 10UF-M/50V	E2, EA, JP	D040100087110S		
	C109FL	00D9630234205	C,ELECT 10UF-M/50V	E3	D040100087070S		
	C109FR	00D2544583942	C,ELECT 10UF-M/50V	E2, EA, JP	D040100087110S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C109FR	00D9630234205	C,ELECT 10UF-M/50V	E3	D040100087070S		
	C109SL	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C109SR	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C110	nsp	C,FILM 0.1UF-K/250V	E2, EA, JP	D02410407H050S		
	C110	00D9639003097	C,FILM 0.1UF-K/250V	E3	D02010407H080S		
	C110C	00D9630338208	C,CERAMIC 470PF-K/500V		D00447127D050S		
	C110FL	nsp	C,FILM AMFF-0.00047UF-J/50V	E2, EA, JP	D020471067050S		
	C110FL	00D9630338208	C,CERAMIC 470PF-K/500V	E3	D00447127D050S		
	C110FR	00D9630338208	C,CERAMIC 470PF-K/500V	E3	D00447127D050S		
	C110FR	nsp	C,FILM AMFF-0.00047UF-J/50V	E2, EA, JP	D020471067050S		
	C110SL	00D9630338208	C,CERAMIC 470PF-K/500V		D00447127D050S		
	C110SR	00D9630338208	C,CERAMIC 470PF-K/500V		D00447127D050S		
	C111	00D9639003097	C,FILM 0.1UF-K/250V	E3	D02010407H080S		
	C111	nsp	C,FILM 0.1UF-K/250V	E2, EA, JP	D02410407H050S		
	C111C	00D9630367101	C,CERAMIC 220PF-J/500V		D00422106D05CS		
	C111FL	00D9630367101	C,CERAMIC 220PF-J/500V	E3	D00422106D05CS		
	C111FL	nsp	C,FILM AMFF-0.00022UF-J/50V	E2, EA, JP	D020221067050S		
	C111FR	00D9630367101	C,CERAMIC 220PF-J/500V	E3	D00422106D05CS		
	C111FR	nsp	C,FILM AMFF-0.00022UF-J/50V	E2, EA, JP	D020221067050S		
	C111SL	00D9630367101	C,CERAMIC 220PF-J/500V		D00422106D05CS		
	C111SR	00D9630367101	C,CERAMIC 220PF-J/500V		D00422106D05CS		
	C112	00D9639003097	C,FILM 0.1UF-K/250V	E3	D02010407H080S		
	C112	nsp	C,FILM 0.1UF-K/250V	E2, EA, JP	D02410407H050S		
	C112C	00D9639003194	C,FILM 0.0022UF-J/100V		D02022206C060S		
	C112FL	00D9639003194	C,FILM 0.0022UF-J/100V		D02022206C060S		
	C112FR	00D9639003194	C,FILM 0.0022UF-J/100V		D02022206C060S		
	C112SL	00D9639003194	C,FILM 0.0022UF-J/100V		D02022206C060S		
	C112SR	00D9639003194	C,FILM 0.0022UF-J/100V		D02022206C060S		
	C113C	00D9630293709	C,ELECT 100UF-M/10V		D040101082070S		
	C113FL	00D9609010133	C,ELECT 220UF-M/35V	E3	D040221085060S		
	C113FL	00D2544580712	C,ELECT 100UF-M/50V	E2, EA, JP	D040101087150S		
	C113FR	00D9609010133	C,ELECT 220UF-M/35V	E3	D040221085060S		
	C113FR	00D2544580712	C,ELECT 100UF-M/50V	E2, EA, JP	D040101087150S		
	C113SL	00D9630293709	C,ELECT 100UF-M/10V		D040101082070S		
	C113SR	00D9630293709	C,ELECT 100UF-M/10V		D040101082070S		
	C114	00D9639003097	C,FILM 0.1UF-K/250V	E3	D02010407H080S		
	C114	nsp	C,FILM 0.1UF-K/250V	E2, EA, JP	D02410407H050S		
	C114C	00D9630216100	C,CERAMIC 33PF-J/500V		D00033006D050S		
	C114FL	00D9630216100	C,CERAMIC 33PF-J/500V	E3	D00033006D050S		
	C114FL	nsp	C,FILM NH2-33PF-J/100V	E2, EA, JP	D02133006C050S		
	C114FR	00D9630216100	C,CERAMIC 33PF-J/500V	E3	D00033006D050S		
	C114FR	nsp	C,FILM NH2-33PF-J/100V	E2, EA, JP	D02133006C050S		
	C114SL	00D9630216100	C,CERAMIC 33PF-J/500V		D00033006D050S		
	C114SR	00D9630216100	C,CERAMIC 33PF-J/500V		D00033006D050S		
	C115	00D9639003097	C,FILM 0.1UF-K/250V	E3	D02010407H080S		
	C115	nsp	C,FILM 0.1UF-K/250V	E2, EA, JP	D02410407H050S		
	C115SW	00D9630224503	C,ELECT 22UF-M/50V		D040220087060S		
	C117-119	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C120	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C121	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C122-125	nsp	C,CERAMIC 220PF-J/50V		D010221167160S		
	C141SW1	00D9630224503	C,ELECT 22UF-M/50V		D040220087060S		
	C142SW1	nsp	C,CERAMIC 100PF-J/50V		D010101167160S		
	C146	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C155	00D9630244606	C,ELECT 0.1UF-M/50V (Pb Free)		D040R10087080S		
	C161	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C162,163	nsp	C,CERAMIC 0.01UF-K/50V		D0101037771605		
	C164	nsp	C,CERAMIC 100PF-J/50V		D0101011671605		
	C165	nsp	C,CERAMIC 330PF-J/50V	JP	D0103311671605		
	C166,167	nsp	C,CERAMIC 100PF-J/50V		D0101011671605		
	C168-172	00D9630244606	C,ELECT 0.1UF-M/50V (Pb Free)		D040R10087080S		
	C173	00D9639005875	C,ELECT 47UF-M/25V		D0404700840705		
	C174	00D9630244606	C,ELECT 0.1UF-M/50V (Pb Free)		D040R10087080S		
	C175	nsp	C,CERAMIC 330PF-J/50V	JP	D0103311671605		
	C177	nsp	C,CERAMIC 0.01UF-K/50V		D0101037771605		
	C178,179	00D9609010010	C,ELECT 4.7UF-M/50V		D0404R7087250S		
	C180,181	nsp	C,CERAMIC 0.01UF-K/50V		D0101037771605		
	C182	00D9630324005	C,ELECT 100UF-M/100V		D04010108C240S		
	C183	nsp	C,FILM 0.1UF-J/100V		D02010406C060S		
	C185,186	nsp	C,CERAMIC 0.047UF-Z/50V	JP	D0114735971605		
	C190	00D9609010010	C,ELECT 4.7UF-M/50V		D0404R7087250S		
	C221L	nsp	C,CERAMIC 100PF-J/50V		D0101011671605		
	C221R	nsp	C,CERAMIC 100PF-J/50V		D0101011671605		
	C222L	00D9630224503	C,ELECT 22UF-M/50V		D0402200870605		
	C222R	00D9630224503	C,ELECT 22UF-M/50V		D0402200870605		
	C224L	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C224R	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C231	00D9630244606	C,ELECT 0.1UF-M/50V (Pb Free)		D040R10087080S		
	C232	nsp	C,CERAMIC 0.01UF-K/50V		D0101037771605		
	C233	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D0400100871505		
	C234	nsp	C,CERAMIC 100PF-J/50V		D0101011671605		
	C235,236	00D9609008653	C,FILM 0.012UF-J/100V		D02012306C060S		
	C237	00D9639005862	C,ELECT 47UF-M/16V		D0404700830805		
	C238-241	00D9630234205	C,ELECT 10UF-M/50V	JP	D0401000870705		
OTHERS PARTS GROUP							
	BKT101	nsp	BRACKET 0.8t/SCREW		4010210196100S		
	CLAMP101	nsp	CLAMP WIRE(SOLDER)		4330000120000S		
	CN101	nsp	CN,WIRE 10P		L000111100070S		
	CN103	nsp	CN,WIRE 7P		L000121070061S		
	CN201	nsp	CN,WIRE 6P		L000700060111S		
	CN511	nsp	CN,WIRE 9P		L000600090021S		
	CN704	nsp	CN.WAFER 15P		L101100041510S		
	CP103	nsp	CN.WAFER 3P		L102526700300S		
	CP104	nsp	CN.WAFER 3CKT		L108353280360S		
	CP105	nsp	CN.WAFER 7P		L101100040710S		
	CP106	nsp	CN.WAFER 5P		L101100040510S		
	CP107	nsp	CN.WAFER 3P		L102526700300S		
	CP108	nsp	CN.WAFER 18P		L101100041810S		
	CP109	nsp	CN.WAFER 5P		L101100040510S		
	CP541	nsp	CN.WAFER 3P		L101200100310S		
	GND101	nsp	TERMINAL EARTH		3790040886000S		
	JACK221	90M-YT004640R	MODULE JSR1165-C	E3, E2, EA	G601207AE020YS		
	JACK222	00D9630146005	TER,RCA 1PIN		G600107A0000YS		
	JACK224	00D9630132103	TER,RCA 4PIN	JP	G602405B0400YS		
	JACK231,232	00D9630244703	JACK,D3.5 EARPHONE		G40130802000YS		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	L101C	00D9630049005	COIL INDUCTOR 0.5UH		D330R50000000S		
	L101FL	00D9630049005	COIL INDUCTOR 0.5UH		D330R50000000S		
	L101FR	00D9630049005	COIL INDUCTOR 0.5UH		D330R50000000S		
	L101SL	00D9630049005	COIL INDUCTOR 0.5UH		D330R50000000S		
	L101SR	00D9630049005	COIL INDUCTOR 0.5UH		D330R50000000S		
	L231	nsp	BEAD,COIL 3580		7610010030000S		
	RLY541	00D9630218506	RELAY BC3-24 24V 2A		G680240202040S		
	TP101-105	nsp	CN.WAFER 3P		L101530140310S		
	JP352	00D9630223009	R,THICK 0-J,1/16W		C20000006M160S		
	JP356	00D9630223009	R,THICK 0-J,1/16W		C20000006M160S		
	JP358	00D9630223009	R,THICK 0-J,1/16W		C20000006M160S		
	JP359	00D9630223009	R,THICK 0-J,1/16W		C20000006M160S		
	JP360	00D9630223009	R,THICK 0-J,1/16W		C20000006M160S		

FRONT P.W.B. UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC303	00D9600195808	IC ICP-N15		J120001500030S		
	IC305	00D9630024004	IC NJM2068M		J121206800020S		
	Q302	00D9600285006	TR KRC104S		J522104S00210S		
	Q303-305	00D9600005202	TR 2SC KTC3198Y		J5023198Y0000S		
	Q312	00D9630226705	TR 2SC KTC1027Y		J5021027Y0020S		
	Q313,314	00D9630120801	TR KRC102S		J522010200210S		
	Q316	00D9630121402	TR 2SA KRA104S R1		J520010400210S		
	Q317	00D9630120801	TR KRC102S		J522010200210S		
	Q319,320	00D9630120801	TR KRC102S		J522010200210S		
	Q321	00D9630102803	TR 2SA933S		J5000933S0050S		
	Q322	00D9630121606	TR KRC107S		J522107S00210S		
	Q327,328	00D9630148508	TRKTA1504S		J520015040150S		
	Q542-546	00D9630121208	TR KRC107M		J6020107M0010S		
	D303	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D304-306	00D9630020309	D,SWITCHING 1SS133T		K000013300520S		
	D307-310	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D312,313	00D9630328409	D,SWITCHING 1N4007		K000400700010S		
	D315	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D317	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D319	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D542	00D9630020309	D,SWITCHING 1SS133T		K000013300520S		
	D543-546	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	ZD301	00D9600095801	D,ZENER MTZJ6.8B		K06006R844520S		
	ZD306	00D9600095500	D,ZENER MTZJ5.1B		K06005R144520S		
	ZD310	00D9600128202	D,ZENER MTZJ24B		K06024R044520S		
	ZD311	00D9630046202	D,ZENER MTZJ18B		K06018R044520S		
	ZD312,313	00D9600095500	D,ZENER MTZJ5.1B		K06005R144520S		
	LED301	963263002040S	LED,ROUND SEL5020J 5PI		K500056000110S		
	LED310	00D9630366108	LED BL-BEG204-L 5PI		K500052004010S		
	LED312	963263000500S	LED BL-BVT204-S 5PI		K500052500040S		
RESISTORS GROUP							
	R372	00D9630215907	R,METAL FILM 4.7-J,1W		C0604R7065050S		
	R391,392	00D9609009270	R,METAL FILM 470-J,2W		C060047166520S		
	R501	00D9609003700	R,METAL FILM 10-J,1/4W		C060010063050S		
CAPACITORS GROUP							
	C302	nsp	C,CERAMIC 0.047UF-Z/50V		D011473597160S		
	C303	00D9639005862	C,ELECT 47UF-M/16V		D040470083080S		
	C304	nsp	C,CERAMIC 0.047UF-Z/50V		D011473597160S		
	C305	nsp	C,FILM 0.1UF-J/100V		D02010406C060S		
	C311	nsp	C,FILM 0.1UF-J/100V		D02010406C060S		
	C312	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C313	nsp	C,CERAMIC T.C COG30PF-J/50V		D010300167160S		
	C314	00D9630276409	C,ELECT 100UF-M/16V		D040101083090S		
	C315	nsp	C,FILM 0.1UF-J/100V		D02010406C060S		
	C317	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C318	nsp	C,CERAMIC T.C COG150PF-J/50V		D010151167160S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C319	nsp	C,CERAMIC 100PF-J/50V		D0101011671 60S		
	C320,321	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D0400100871 50S		
	C322-324	nsp	C,CERAMIC 100PF-J/50V		D0101011671 60S		
	C325	nsp	C,CERAMIC 0.01UF-K/50V		D0111037771 60S		
	C326	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D0400100871 50S		
	C328	nsp	C,FILM 0.1UF-J/100V		D02010406C060S		
	C329	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D0400100871 50S		
	C332	nsp	C,CERAMIC T.C COG150PF-J/50V		D0101511671 60S		
	C333	00D9630234205	C,ELECT 10UF-M/50V		D0401000870 70S		
	C337	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D0400100871 50S		
	C338	00D9630024703	C,FILM 0.01UF-J/100V		D02010306C060S		
	C339	nsp	C,CERAMIC 0.1UF-K/50V		D0111045771 60S		
	C340	nsp	C,CERAMIC 100PF-J/50V		D0101011671 60S		
	C341	nsp	C,CERAMIC 330PF-J/50V		D0103311671 60S		
	C342	nsp	C,FILM 0.1UF-J/100V		D02010406C060S		
	C343	nsp	C,CERAMIC 0.047UF-Z/50V		D0114735971 60S		
	C344	nsp	C,CERAMIC 0.1UF-Z/50V		D0051045975 30S		
	C345	nsp	C,CERAMIC 330PF-J/50V		D0103311671 60S		
	C347	nsp	C,CERAMIC 0.1UF-K/50V		D0111045771 60S		
	C349	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D0400100871 50S		
	C350	00D9630024703	C,FILM 0.01UF-J/100V		D02010306C060S		
	C352	00D9630024703	C,FILM 0.01UF-J/100V		D02010306C060S		
	C353	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D0400100871 50S		
	C355	nsp	C,ELECT 470UF-M/63V		D0404710880 10S		
	C356	00D9639003097	C,FILM 0.1UF-K/250V		D02010407H080S		
	C357	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D0400100871 50S		
	C360,361	nsp	C,CERAMIC 0.001UF-K/50V		D0051021775 30S		
	C370	nsp	C,CERAMIC 0.01UF-K/50V		D0111037771 60S		
	C371	nsp	C,CERAMIC 0.047UF-Z/50V		D0114735971 60S		
	C372	nsp	C,CERAMIC 0.01UF-K/50V		D0111037771 60S		
	C373	nsp	C,CERAMIC 0.047UF-Z/50V		D0114735971 60S		
	C380-383	nsp	C,CERAMIC 0.01UF-K/50V		D0111037771 60S		
	C541	nsp	C,CERAMIC 2200PF-K/50V		D0112227771 60S		
	C541FL	00D9630024703	C,FILM 0.01UF-J/100V		D02010306C060S		
	C542	nsp	C,CERAMIC 2200PF-K/50V		D0112227771 60S		
	C542FR	00D9630024703	C,FILM 0.01UF-J/100V		D02010306C060S		
	C543	nsp	C,CERAMIC 2200PF-K/50V		D0112227771 60S		
	C543FL	00D9630024703	C,FILM 0.01UF-J/100V		D02010306C060S		
	C544	nsp	C,CERAMIC 2200PF-K/50V		D0112227771 60S		
	C544FR	00D9630024703	C,FILM 0.01UF-J/100V		D02010306C060S		
	C545	nsp	C,CERAMIC 2200PF-K/50V		D0112227771 60S		
	C545C	00D9630024703	C,FILM 0.01UF-J/100V		D02010306C060S		
	C546	nsp	C,CERAMIC 2200PF-K/50V		D0112227771 60S		
	C546SL	00D9630024703	C,FILM 0.01UF-J/100V		D02010306C060S		
	C547	nsp	C,CERAMIC 2200PF-K/50V		D0112227771 60S		
	C547SR	00D9630024703	C,FILM 0.01UF-J/100V		D02010306C060S		
	C548	nsp	C,CERAMIC 2200PF-K/50V		D0112227771 60S		
	C548SBL	00D9630024703	C,FILM 0.01UF-J/100V		D02010306C060S		
	C549	nsp	C,CERAMIC 2200PF-K/50V		D0112227771 60S		
	C549SBR	00D9630024703	C,FILM 0.01UF-J/100V		D02010306C060S		
	C550	963134002070S	C,ELECT 100UF-M/35V (Pb Free)	E2, EA, JP	D0401010850 70S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
OTHERS PARTS GROUP							
	BD301	nsp	COIL,BEAD MB-160808		D340160800060S		
	BD302-304	00D9630223009	R,THICK 0-J,1/16W		C20000006M160S		
	CB301,302	00D9630223009	R,THICK 0-J,1/16W		C20000006M160S		
	CN102	nsp	CN,WIRE 4P		L000271040040S		
	CN301	nsp	CN,WIRE 2P		L000401020050S		
	CN302A	nsp	CN,WIRE 5P		L000450050010S		
	CN303A	nsp	CN,WIRE 3P		L000450030010S		
	CN304	nsp	CN,WIRE 3P		L000500030051S		
	CN305	nsp	CN,WIRE 10P		L000700100031S		
	CN306A	nsp	CN.WAFER 7P		L101100030710S		
	CN307A	nsp	CN.WAFER 7P		L101100030710S		
	CN541	nsp	CN,WIRE 3P		L000251030081S		
	CP101	nsp	CN.WAFER 10P		L102526701000S		
	CP103	nsp	CN.WAFER 7P		L101200100710S		
	CP105	nsp	CN.WAFER 4P ANGLE		L102526800400S		
	CP301B	00D9630368506	CN.FPC 35P		L131103500010S		
	CP302	nsp	CN.WAFER 3P ANGLE		L102526803010S		
	CP304	nsp	CN.WAFER 3P		L101200100310S		
	CP305	nsp	CN.WAFER 10P		L101200101020S		
	CP306	nsp	CN.WAFER 3P		L101200100320S		
	CP306B	nsp	CN.WAFER 7P		L101100040710S		
	CP307A	nsp	CN.WAFER 7P		L101100040710S		
	G301	nsp	RING,TER WIRE 120MM/1P		8410121010060S		
	G304	nsp	RING,TER WIRE 80MM/2P		8410800020040S		
	JACK301	00D9630367802	JACK,D3.5 EARPHONE		G401PJ354H40YS		
	JACK304	00D9630146403	TER,RCA 3PIN		G606308HG110YS		
	JK302	00D9630294708	JACK,D6.5 PHONE		G402PJ612AG0YS		
	JK501,502	963646001690S	TER,BOARD SCREW 8P		G614108V1010MS		
	JK503	00D9630158608	TER,BOARD SCREW 2P		G611201A0200YS		
	L301	nsp	COIL INDUCTOR 100UH		D330101001020S		
	RLY542-546	00D9630366201	RELAY G5PA-28-MC 24V 5A		G680240502030S		
	RMC302	00D9630217808	MODULE,REMOCON NJL34H380A		E940343800010S		
	SW301	00D9630145802	SW,PUSH SDDL-005-S(C-UL)		G000122006060S		
	SW301A	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW301B	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW301C	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW302A	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW302C	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW303A	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW303B	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW303C	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW304A	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW304B	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW304C	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	SW305A	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW305B	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW305C	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW306A	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW306B	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW306C	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW307A	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW307B	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW307C	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW308A	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW308B	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW308C	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW309A	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW310	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	VEC301	00D9630095305	SW,ENCODER EC16B24SO		G121162400070S		
	VEC302	00D9630300401	SW,ENCODER EC11B20C2		G121112020000S		
	VEC303	00D9630095305	SW,ENCODER EC16B24SO		G121162400070S		
	FLT301	00D3938097001	DISPLAY,FLT HCA-19MM02T		K530190200010S		
		nsp	HOLDER FLT		4320210536000S		

INPUT P.W.B. UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC700	963239000650S	IC R2A15218FP		J084152180010S		
	IC706,707	963239001880S	IC AZ4580M		J121458000020S		
	IC708-718	00D9630024004	IC NJM2068M		J121206800020S		
	Q700,701	00D9600196807	TR 2SK117Y		J5441170Y0050S		
	Q702	00D9630120704	TR KRA102S		J520010200210S		
	Q703	00D9600285006	TR KRC104S		J522104S00210S		
	D700,701	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	ZD700,701	00D9600222603	D,ZENER MTZJ7.5A		K06007R544530S		
RESISTORS GROUP							
	R708,709	00D9639005639	R,METAL FILM 100-J,1W		C060010165060S		
	R791VC	963124001870S	R,METAL FILM 120-J,1W		C060012165060S		
	R791VE	963124001870S	R,METAL FILM 120-J,1W		C060012165060S		
CAPACITORS GROUP							
	C704,705	00D9639005875	C,ELECT 47UF-M/25V	E3	D040470084070S		
	C704,705	00D9639005804	C,ELECT 100UF-M/25V	E2, EA, JP	D040101084060S		
	C706FL	00D9630234205	C,ELECT 10UF-M/50V	E3	D040100087070S		
	C706FL	00D9639005804	C,ELECT 100UF-M/25V	E2, EA, JP	D040101084060S		
	C706FR	00D9630234205	C,ELECT 10UF-M/50V	E3	D040100087070S		
	C706FR	00D9639005804	C,ELECT 100UF-M/25V	E2, EA, JP	D040101084060S		
	C707FL	00D9630234205	C,ELECT 10UF-M/50V	E3	D040100087070S		
	C707FL	00D2544583942	C,ELECT 10UF-M/50V	E2, EA, JP	D040100087110S		
	C707FR	00D9630234205	C,ELECT 10UF-M/50V	E3	D040100087070S		
	C707FR	00D2544583942	C,ELECT 10UF-M/50V	E2, EA, JP	D040100087110S		
	C707SW	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C708FL	nsp	C,CERAMIC 100PF-J/50V	E3	D010101167160S		
	C708FL	00D2570506951	C,CERAMIC 100PF-C/50V	E2, EA, JP	D010101107160S		
	C708FR	nsp	C,CERAMIC 100PF-J/50V	E3	D010101167160S		
	C708FR	00D2570506951	C,CERAMIC 100PF-C/50V	E2, EA, JP	D010101107160S		
	C708SW	nsp	C,CERAMIC 100PF-J/50V		D010101167160S		
	C709FL	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D011473597160S		
	C709FR	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D011473597160S		
	C709SW	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D011473597160S		
	C710	00D9630223009	R,THICK 0-J,1/16W		C20000006M160S		
	C710SW	nsp	C,CERAMIC 0.01UF-K/50V		D010103777160S		
	C711	00D9630223009	R,THICK 0-J,1/16W		C20000006M160S		
	C711SW	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D011473597160S		
	C713-715	00D9630223009	R,THICK 0-J,1/16W		C20000006M160S		
	C716-727	nsp	C,CERAMIC 330PF-J/50V		D010331167160S		
	C728-731	nsp	C,CERAMIC 20PF-J/50V		D010200167160S		
	C732-739	nsp	C,CERAMIC 330PF-J/50V		D010331167160S		
	C740-749	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C750,751	00D9630234205	C,ELECT 10UF-M/50V	E3	D040100087070S		
	C750,751	00D2544583942	C,ELECT 10UF-M/50V	E2, EA, JP	D040100087110S		
	C751A	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C751B	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C751C	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C751D	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C751E	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C751F	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C751G	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C751H	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C751J	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C751K	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C751L	00D9630234205	C,ELECT 10UF-M/50V	E3	D0401000870705		
	C751L	00D2544583942	C,ELECT 10UF-M/50V	E2, EA, JP	D0401000871105		
	C751M	00D9630234205	C,ELECT 10UF-M/50V	E3	D0401000870705		
	C751M	00D2544583942	C,ELECT 10UF-M/50V	E2, EA, JP	D0401000871105		
	C751N	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C751P	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C751Q	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C751R	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C751S	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C751T	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C751U	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C751V	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C752	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C752A	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D0114735971605		
	C752B	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D0114735971605		
	C752C	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D0114735971605		
	C752D	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D0114735971605		
	C752E	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D0114735971605		
	C752F	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D0114735971605		
	C752G	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D0114735971605		
	C752H	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D0114735971605		
	C752J	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D0114735971605		
	C752K	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D0114735971605		
	C752L	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D0114735971605		
	C752M	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D0114735971605		
	C752N	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D0114735971605		
	C752P	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D0114735971605		
	C752Q	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D0114735971605		
	C752R	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D0114735971605		
	C752S	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D0114735971605		
	C752T	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D0114735971605		
	C752U	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D0114735971605		
	C752V	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D0114735971605		
	C752W	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D0114735971605		
	C752X	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D0114735971605		
	C753-769	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C770,771	00D9639006214	C,ELECT 3.3UF-M/50V	E3	D0403R3087050S		
	C770,771	00D2544583926	C,ELECT 3.3UF-M/50V	E2, EA, JP	D0403R3087060S		
	C772,773	00D9630293709	C,ELECT 100UF-M/10V	E3	D0401010820705		
	C772,773	00D9639005804	C,ELECT 100UF-M/25V	E2, EA, JP	D0401010840605		
	C774	nsp	C,FILM 0.15UF-K/63V		D0201540780605		
	C775	00D9630021900	C,FILM 0.047UF-J/100V		D0204730C0605		
	C776	00D9609008640	C,FILM 0.022UF-J/100V		D0202230C0605		
	C777	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C778,779	nsp	C,CERAMIC 100PF-J/50V		D0101011671605		
	C780	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C781	00D9609008640	C,FILM 0.022UF-J/100V		D0202230C0605		
	C782	00D9630021900	C,FILM 0.047UF-J/100V		D0204730C0605		
	C783	nsp	C,FILM 0.15UF-K/63V		D0201540780605		
	C784-790	00D9639005820	C,ELECT 22UF-M/16V		D0402200830705		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C791-793	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C794	00D9639005820	C,ELECT 22UF-M/16V		D040220083070S		
	C795-801	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C802-805	nsp	C,CERAMIC 220PF-J/50V		D010221167160S		
OTHERS PARTS GROUP							
	BD701-703	nsp	COIL,BEAD MB-160808		D340160800060S		
	CN306	nsp	CN,WIRE 3P		L000481030061S		
	CN514	nsp	CN,WIRE 15P		L000181150011S		
	CN702	nsp	CN.HOUSING 15P		L120912150010S		
	CN703	nsp	CN.WAFER 8P		L101100030810S		
	CN704	nsp	CN.WAFER 19P		L101100031910S		
	CN705	nsp	CN,WIRE 3P		L000151030011S		
	CN707	nsp	CN.WAFER 15P		L101100031510S		
	CN708	nsp	CN,WIRE 15P		L000161150050S		
	CP708	nsp	CN.WAFER 9P		L101100040910S		
	JACK701	00D9630132103	TER,RCA 4PIN		G602405B0400YS		
	JACK702	00D9630388203	TER,RCA 4PIN		G602405B5500YS		
	JACK703	00D9630132103	TER,RCA 4PIN		G602405B0400YS		
	JACK704,705	00D9630132307	TER,RCA 6PIN		G603603B05000S		

POWER P.W.B. UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC501	00D9630057806	IC KIA78R05PI		J126780500370S		
	IC502	00D9600195808	IC ICP-N15		J120001500030S		
	IC512	00D9600159501	IC KIA7805API		J126780500110S		
	IC513	00D2631099006	IC KIA7905PI		J126790500070S		
	IC517	00D9600174900	IC KIA7815API		J126781500000S		
	Q501	00D9600196409	TR 2SC1740SR		J5021740S0010S		
	Q502	00D9630121208	TR KRC107M		J6020107M0010S		
	Q503	00D9600196409	TR 2SC1740SR		J5021740S0010S		
	Q513	90M-HT100330R	TR 2SA KTA1267Y		J5001267Y0050S		
	Q514	00D9600097304	TR KRC102M		J6020102M0010S		
	Q515	00D9630255802	TR 2SC KTC3199Y		J5023199Y0010S		
	Q516	90M-HT100330R	TR 2SA KTA1267Y		J5001267Y0050S		
	Q517	00D9630327808	TR KTA1281Y		J5001281Y0010S		
	Q518	00D9600097304	TR KRC102M		J6020102M0010S		
	Q519	00D9630328001	TR 2SC KTC3209Y		J5023209Y0010S		
	Q520	90M-HT100330R	TR 2SA KTA1267Y		J5001267Y0050S		
	D501-503	00D9630020309	D,SWITCHING 1SS133T		K000013300520S		
	D504-507	00D9630328409	D,SWITCHING 1N4007		K000400700010S		
	D508-512	00D9630020309	D,SWITCHING 1SS133T		K000013300520S		
	D513-520	00D9630328409	D,SWITCHING 1N4007		K000400700010S		
	D523-526	00D9630328409	D,SWITCHING 1N4007		K000400700010S		
	D527-534	00D9630328409	D,SWITCHING 1N4007	E3	K000400700010S		
	D535,536	00D9630328409	D,SWITCHING 1N4007		K000400700010S		
	ZD501	00D9600095500	D,ZENER MTZJ5.1B		K06005R144520S		
	ZD502	00D9630058601	D,ZENER MTZJ12B	E3	K06012R044520S		
	ZD502	00D9630219903	D,ZENER MTZJ16B	E2, EA, JP	K06016R044520S		
RESISTORS GROUP							
	R506	00D9630244305	R,METAL FILM 2.2M 0.5W	E3	C060022564520S		
	R507	00D2412376964	R,METAL 47-J,1/4W-R		C060047063050S		
	R511,512	00D9630337908	R,METAL FILM 33-J,1W		C060033065050S		
	R516-519	00D9630216003	R,METAL 0.22-J,1W-R		C060R22065050S		
	R521	00D9630048103	R,METAL 150-J,1W-R		C060015165050S		
CAPACITORS GROUP							
	C501	00D9630234205	C,ELECT 10UF-M/50V	E3	D040100087070S		
	C501	963134001860S	C,ELECT 470UF-M/16V	E2, EA, JP	D040471083080S		
	C502	00D9630217002	C,ELECT 3300UF-M/16V	AVR1909, 789EA, AVC1909	D040332083010S		
	C503	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D040010087150S		
	C504	00D9630323802	C,CERAMIC AC(SAFETY) 0.0047UF 250VAC		D00847208H010S		
	C505	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D040010087150S		
	C506,507	963134001820S	C,ELECT 1000UF-M/35V		D040102085030S		
	C511,512	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)	E3	D040010087150S		
	C511,512	00D9630276409	C,ELECT 100UF-M/16V	E2, EA, JP	D040101083090S		
	C513	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D040010087150S		
	C514	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)	E3	D040010087150S		
	C514	00D9630276409	C,ELECT 100UF-M/16V	E2, EA, JP	D040101083090S		
	C515,516	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D040010087150S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C517	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C518	00D9630217002	C,ELECT 3300UF-M/16V		D040332083010S		
	C519	00D9630324704	C,ELECT 4700UF-M/16V		D040472083200S		
	C520	00D9630021104	C,ELECT 6800UF-M/16V		D040682083000S		
	C521-523	00D9630021900	C,FILM 0.047UF-J/100V		D02047306C060S		
	C524	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)	E3	D040010087150S		
	C524	00D9600298802	C,ELECT 470UF-M/6.3V	E2, EA, JP	D040471081070S		
	C525	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C528	00D9630324908	C,ELECT 4700UF-M/35V		D040472085020S		
	C529	00D9630224707	C,ELECT 2200UF-M/35V	E3	D040222085020S		
	C529	00D9600298909	C,ELECT 4700UF-M/35V	E2, EA, JP	D041472085010S		
	C530-532	00D9630021900	C,FILM 0.047UF-J/100V	AVR1909, 789EA, AVC1909	D02047306C060S		
	C533-537	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D040010087150S		
	C538	00D9630234205	C,ELECT 10UF-M/50V	E3	D040100087070S		
	C538	00D9609010858	C,ELECT 470UF-M/25V	E2, EA, JP	D040471084130S		
OTHERS PARTS GROUP							
	BKT501	nsp	BRACKET 0.8t/SCREW	E3	4010210196100S		
	BKT502	nsp	BRACKET 0.8t/SCREW	EA	4010210196100S		
	CLAMP101,102	nsp	CLAMP WIRE(SOLDER)		4330000120000S		
	CLAMP104	nsp	CLAMP WIRE(SOLDER)		4330000120000S		
	CN502	nsp	CN,WIRE 3P		L000800030020S		
	CN505	nsp	CN.WAFER 7P		L101100030710S		
	CN506	nsp	CN.WAFER 14P		L101100031410S		
	CN507	nsp	CN,WIRE 3P		L000800030020S		
	CN704	nsp	CN.WAFER 15P		L101100031510S		
	CN705	nsp	CN.WAFER 9P		L101100030910S		
	CP501	nsp	CN.WAFER 2CKT,YEL		L108353280290S		
	CP503	nsp	CN.WAFER 2CKT,RED		L108353280280S		
	CP504	nsp	CN.WAFER ST2P		L108202000220S		
	CP505	nsp	CN.WAFER 7P		L101100040710S		
	CP506	nsp	CN.WAFER 14P		L101100041410S		
	CP508	nsp	CN.WAFER 4P		L101200100410S		
	CP509	nsp	CN.WAFER 3P		L101200100310S		
	CP510	nsp	CN.WAFER 7P CN.WAFER 10P		L101100041010S		
	CP511	nsp	CN.WAFER 9P		L101200100910S		
	CP512	nsp	CN.WAFER 4P ANGLE		L102526800400S		
	CP513	nsp	CN.WAFER 3P ANGLE		L102526803010S		
	CP514	nsp	CN.WAFER 15P		L101200101510S		
	CP704	nsp	CN.WAFER 15P		L101100041510S		
	CP705	nsp	CN.WAFER 9P		L101100040910S		
	CP2005,2006	nsp	CN.WAFER 7P CN.WAFER 10P		L101100041010S		
⚠	F501	00D9630236106	FUSE T8A /250V	E3	N751228001110S		
⚠	F501	00D9630237600	FUSE T4A /250	E2, EA	N751224001110S		
⚠	F501	00D9600194906	FUSE 125V	JP	G650802121070S		
	F501A	nsp	HOLDER,FUSE CLIP		G645000050010S		
	F501B	nsp	HOLDER,FUSE CLIP		G645000050010S		
⚠	F503	00D9630236106	FUSE T8A /250V	E3	N751228001110S		
⚠	F503	00D9630104704	FUSE T2.5A /250V	E2	N751222501110S		
⚠	F503	00D9600194906	FUSE 125V	JP	G650802121070S		
	F503A	nsp	HOLDER,FUSE CLIP	AVR1909, 789E3, AVC1909	G645000050010S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	F503B	nsp	HOLDER,FUSE CLIP	AVR1909, 789E3, AVC1909	G645000050010S		
⚠	F511	00D9630104801	FUSE T3.15A /250V		N751223151110S		
	F511A1	nsp	HOLDER,FUSE CLIP		G645000050010S		
	F511B1	nsp	HOLDER,FUSE CLIP		G645000050010S		
⚠	F512	00D9630104801	FUSE T3.15A /250V		N751223151110S		
	F512A1	nsp	HOLDER,FUSE CLIP		G645000050010S		
	F512B1	nsp	HOLDER,FUSE CLIP		G645000050010S		
	GND501	nsp	TERMINAL EARTH		3790040886000S		
⚠	JACK501	00D9600181508	SOCKET,POWER RECEPTA	E3	G435204004010S		
⚠	JACK501	963641000810S	SOCKET,POWER RECEPTA	E2	G435302D00600S		
⚠	JACK501	00D9600181508	SOCKET,POWER RECEPTA	JP	G435204004010S		
	RLY501	963682000640S	RELAY HL3-1A-6SH		G680060102020S		
⚠	SUB501	00D9630387602	POWER TRANS	E3	8200280150401S		
⚠	SUB501	00D9630382801	POWER TRANS	E2, EA	8200280150410S		
⚠	SUB501	00D9630382908	POWER TRANS	JP	8200280150430S		
		nsp	LABEL FUSE	E2	5507000002230S		
		nsp	LABEL FUSE	JP	5507000002240S		
		nsp	LABEL FUSE	EA	5507000001960S		
		nsp	HEAT SINK		2120044338010S		
		nsp	HEAT SINK		2120210958040S		
		nsp	SCREW(3X8 B-TYPE ZNY/BH)		B020030081B10S		

CPU P.W.B. UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC800	00D9600100301	IC KIA7812API		J126781200040S		
	IC801	00D9630326906	IC LC72722PM-TLM-E	E2	J124727220010S		
	IC802	963243001950D	IC,CPU MICRO PROCESS	M30879FLBFP	8952190900010		
	IC803	00D9630367307	IC SN74AHCU04PWR		J040740400290S		
	IC804	00D9630244907	IC SN74LV14APWR		J040741400180S		
	IC805	00D2622813903	SN74AHCT08PW-EL2 +C		J040740800190S		
	IC806	963239001880S	IC AZ4580M	E3	J121458000020S		
	Q800-803	00D9630044301	TR KTC2875B(MB)	E3	J5222875B0010S		
	Q804	00D9630327808	TR KTA1281Y		J5001281Y0010S		
	Q805	00D9630120801	TR KRC102S		J522010200210S		
	Q806	00D9630120704	TR KRA102S		J520010200210S		
	Q807,808	00D9630121509	TR KTC3875S		J522038750210S		
	Q809-812	00D9630044301	TR KTC2875B(MB)	E3, E2, EA	J5222875B0010S		
	D800-802	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D803	00D9630328409	D,SWITCHING 1N4007		K000400700010S		
	D804,805	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D806,807	00D9630245100	D,SWITCHING KDS226ST1(C3)		K005022600020S		
	D808	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D809-811	00D9630341305	D,ESD IMSA-6802-01A		K067680200010S		
	D812,813	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	ZD800	00D9630047502	D,ZENER MTZJ3.3B		K06003R344520S		
RESISTORS GROUP							
	R887	00D9639005639	R,METAL FILM 100-J,1W		C060010165060S		
CAPACITORS GROUP							
	C801	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104577160S		
	C802,803	00D9639006544	C,ELECT 22UF-M/25V	E3	D040220084050S		
	C804	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C805-810	nsp	C,CERAMIC 100PF-J/50V		D010101167160S		
	C811,812	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C813	nsp	C,CERAMIC 560PF-J/50V	E2	D010561167160S		
	C814	00D9630234205	C,ELECT 10UF-M/50V	E2	D040100087070S		
	C815	00D9639005862	C,ELECT 47UF-M/16V	E2	D040470083080S		
	C816,817	nsp	C,CERAMIC 27PF-J/50V	E2	D010270167160S		
	C818	nsp	C,CERAMIC 330PF-J/50V	E2	D010331167160S		
	C819	nsp	C,CERAMIC 0.01UF-K/50V	E2	D011103777160S		
	C820	nsp	C,CERAMIC 0.022UF-K/25V		D011223777160S		
	C821,822	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C823	00D9630293709	C,ELECT 100UF-M/10V		D040101082070S		
	C824	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C825,826	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C827-829	nsp	C,CERAMIC 0.022UF-K/25V		D011223777160S		
	C830	00D9609010010	C,ELECT 4.7UF-M/50V		D0404R7087250S		
	C831	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C832	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C833	00D9630223009	R,THICK 0-J,1/16W	E2, EA, JP	C20000006M160S		
	C834,835	nsp	C,CERAMIC 0.047UF-Z/50V	E3	D011473597160S		
	C836	00D9630223009	R,THICK 0-J,1/16W	E2, EA, JP	C20000006M160S		

ご注意：
ファームウエアをアップデートするときは、SDI で最終バージョンを確認して下さい。
サービス基板はアップデートして使用下さい。

NOTE：
When update Firmware, please confirm a last version in SDI.
Use the service board after updating it.

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C837	00D9639005862	C,ELECT 47UF-M/16V		D0404700830805		
	C838	nsp	C,CERAMIC 0.1UF-K/50V		D0111045771605		
	C840	00D9639005862	C,ELECT 47UF-M/16V		D0404700830805		
	C841	nsp	C,CERAMIC 0.1UF-K/50V		D0111045771605		
	C843,844	nsp	C,CERAMIC 0.1UF-K/50V		D0111045771605		
	C845	00D9639005862	C,ELECT 47UF-M/16V		D0404700830805		
	C846	nsp	C,CERAMIC 0.1UF-K/50V		D0111045771605		
	C848	00D9609010010	C,ELECT 4.7UF-M/50V		D0404R7087250S		
	C849	nsp	C,CERAMIC 0.1UF-K/50V		D0111045771605		
	C850	00D9609010010	C,ELECT 4.7UF-M/50V		D0404R7087250S		
	C851	nsp	C,CERAMIC 0.1UF-K/50V		D0111045771605		
	C852	00D9609010010	C,ELECT 4.7UF-M/50V		D0404R7087250S		
	C853	nsp	C,CERAMIC 100PF-J/50V		D0101011671605		
	C854	nsp	C,CERAMIC 1000PF-K/50V		D0111027771605		
	C855	nsp	C,CERAMIC 100PF-J/50V		D0101011671605		
	C857	nsp	C,CERAMIC 0.1UF-K/50V		D0111045771605		
	C858	nsp	C,CERAMIC 1000PF-K/50V		D0111027771605		
	C859	nsp	C,CERAMIC 0.01UF-K/50V		D0111037771605		
	BC800	00D2544666005	C,ELECT 1F-FG5.5V		D0411050900105		
OTHERS PARTS GROUP							
	BD800-805	00D9630223009	R,THICK 0-J,1/16W		C2000006M1605		
	BD807	00D9630223009	R,THICK 0-J,1/16W		C2000006M1605		
	CN105	nsp	CN.WAFER 7P		L1011000307105		
	CN106	nsp	CN.WAFER 5P		L1011000305105		
	CN108	nsp	CN.WAFER 18P		L1011000318105		
	CP301A	nsp	CN.FPC 35P		L1315249235205		
	CP702	nsp	CN.WAFER 15P		L1009121500105		
	CP703	nsp	CN.WAFER 8P		L1011000408105		
	CP704	nsp	CN.WAFER 19P		L1011000419105		
	CP708	nsp	CN.WAFER 15P		L1012001015105		
	CP801	nsp	CN.WAFER 4P		L1012001004105		
	CP802	nsp	CN.WAFER 8P		L1012001008105		
	CP803	00D9630149303	CN.FPC 15P		L1311115000105		
	CP901	nsp	CN.WAFER 15P	AVR1909, 789E3, AVC1909	L1009121500105		
	CP1001	nsp	CN.WAFER 9P		L1009120900105		
	CP1002	nsp	CN.WAFER 19P		L1009121900105		
	CP1003	nsp	CN.WAFER 12P		L1009121200105		
	CP1004	nsp	CN.WAFER 14P		L1009121400105		
	CP2002	nsp	CN.WAFER 12P		L1011000412105		
	JACK800	00D9630217905	TER,RCA 2PIN		G6012060200YS		
	JACK801	00D9630294601	JACK,D3.5 EARPHONE		G4010035000YS		
	XTAL800	00D9630217604	CRYSTAL 4.332MHZ	E2	E8004332001005		
	XTAL801	963141002060S	RESONATOR ZTT30.00MXF-TF		E8303000300105		
	OPT800	00D9630113009	MODULE JST1165-B		E1001165000305		
	OPT801	00D9630237503	MODULE JSR1165-C		E1001165000405		
	OPT802	00D9630237503	MODULE JSR1165-C		E1001165000405		

HDMI P.W.B. UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC1001	00D9630367503	IC SE1117-1.8		J126111718010S		
	IC1002	00D2623721007	SIL9185		J040918500010S		
	IC1004	963239002130S	IC UPC2918BT-1D		J126291800010S		
	IC1007	963239002130S	IC UPC2918BT-1D		J126291800010S		
	IC1008	00D2623720008	IC SIL9135		J040913500010S		
	IC1009	00D2623719006	IC SIL9134		J040913400010S		
	IC1010	nsp	IC,PAL/PLD	EPM570F256C5N	J003572560010S		
	IC1011	00D2623577002	IC FLI2310		J040231000010S		
	IC1012	963239002130S	IC UPC2918BT-1D		J126291800010S		
	IC1014	963239002140S	IC GLT5640L32-6		J001564032010S		
	IC1015	90M-HC900100R	IC SE1117-33-PF		J126111733020S		
	IC1016,1017	00D9630367503	IC SE1117-1.8		J126111718010S		
	IC1018	00D9630295406	IC IC BH7868FS		J127786800000S		
	IC1019	00D2623644003	ADV7172KSTZ		J045717200011S		
	IC1020	00D2623603002	IC ADV7401		J044740100010S		
	IC1022	246810009604S	IC W9864G2GH-6		J001986460010S		
	IC1023	963248002110D	IC,MEMORY FLASH	EN29LV160AB	8952190900030		
	IC1024	245810005005D	IC ADSP-21367		J080213670020S		
	IC1025	90M-HC900100R	IC SE1117-33-PF		J126111733020S		
	IC1026	237810004001D	IC ADAU1328		J080132800000S		
	IC1027	00D2623449004	IC LC89057W-VF4A-E		J046890570030S		
	IC1028	963239002150S	IC SN74LVC244APWR		J040742440230S		
	IC1029	963243002120D	IC,PAL/PLD	EPM3032A-TC44	8952190900040		
	IC1030	963239001880S	IC AZ4580M		J121458000020S		
	IC1032,1033	00D9630043807	IC BA4510F-E2/SOP8		J121451000010S		
	IC1034,1035	963239001880S	IC AZ4580M		J121458000020S		
	IC1036	90M-HC900100R	IC SE1117-33-PF	E3	J126111733020S		
	IC1037	963239002160S	IC F2621E-01-TR	E3	J080260200040S		
	IC1038	00D2622517908	IC SN74LVO8APW-EL2	E3	J040740800200S		
	IC1039	00D2622813903	SN74AHCT08PW-EL2 +C	E3	J040740800190S		
	IC1040	00D9630294902	IC AK4385	E3	J042438500010S		
	IC1041	963239001880S	IC AZ4580M	E3	J121458000020S		
	IC1042	00D2622813903	SN74AHCT08PW-EL2 +C		J040740800190S		
	IC1043	00D2622517908	IC SN74LVO8APW-EL2		J040740800200S		
	IC1044	00D2622813903	SN74AHCT08PW-EL2 +C		J040740800190S		
	IC1045	963248002100D	IC,CPU MICRO PROCESS	M30626FHPGP	8952190900020		
	IC1047	963239001880S	IC AZ4580M		J121458000020S		
	IC1048	963239002170S	IC EN5311Q		J048531200010S		
	Q1001	00D9630120801	TR KRC102S		J522010200210S		
	Q1003	00D9600285006	TR KRC104S		J522104S00210S		
	Q1004	00D9630120801	TR KRC102S		J522010200210S		
	Q1006,1007	00D9600285006	TR KRC104S		J522104S00210S		
	Q1008,1009	00D9630120801	TR KRC102S		J522010200210S		
	Q1010-1014	00D9600285006	TR KRC104S		J522104S00210S		
	Q1015-1018	00D9630148508	TRKTA1504S		J520015040150S		
	Q1019	00D9600285006	TR KRC104S		J522104S00210S		
	Q1020	00D9630148508	TRKTA1504S		J520015040150S		
	Q1021	00D9630120801	TR KRC102S		J522010200210S		
	Q1022	00D9630120704	TR KRA102S		J520010200210S		
	Q1023	00D9630120801	TR KRC102S		J522010200210S		
	Q1024	00D9630120704	TR KRA102S		J520010200210S		
	Q1025-1031	00D9630044301	TR KTC2875B(MB)		J5222875B0010S		
	Q1032	00D9630120704	TR KRA102S		J520010200210S		

ご注意：
ファームウエアをアップデートするときは、SDI で最終バージョンを確認して下さい。
サービス基板はアップデートして使用下さい。

NOTE :
When update Firmware, please confirm a last version in SDI.
Use the service board after updating it.

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	Q1033	00D9630120801	TR KRC102S		J522010200210S		
	Q1034	00D9630044301	TR KTC2875B(MB)		J5222875B0010S		
	Q1035	00D9630120801	TR KRC102S	E3	J522010200210S		
	Q1036	00D9630120704	TR KRA102S	E3	J520010200210S		
	Q1037	00D9630120801	TR KRC102S	E3	J522010200210S		
	Q1038	00D9630120704	TR KRA102S	E3	J520010200210S		
	Q1039	963219002180S	TR 2SD2114KT146W		J5232114K0010S		
	Q1040,1041	00D9630121509	TR KTC3875S		J522038750210S		
	Q1042	00D2750110905	FET HN1K02FU		J543102000010S		
	Q1043	00D9630121509	TR KTC3875S		J522038750210S		
	Q1044	00D9600285006	TR KRC104S		J522104S00210S		
	Q1045	00D9630120801	TR KRC102S		J522010200210S		
	Q1046	00D9600285006	TR KRC104S		J522104S00210S		
	Q1047	00D9630121402	TR 2SA KRA104S R1		J520010400210S		
	Q1049	963219002190S	TR 2SA KTA1242D-Y		J500124200010S		
	Q1050	00D9630120801	TR KRC102S		J522010200210S		
	Q1051	00D9630120801	TR KRC102S	E3	J522010200210S		
	Q1052	963219002190S	TR 2SA KTA1242D-Y	E3	J500124200010S		
	D1041	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D1042,1043	00D9630341305	D,ESD IMSA-6802-01A		K067680200010S		
	D1046-1054	00D9630341305	D,ESD IMSA-6802-01A		K067680200010S		
	D1057,1058	00D9630341305	D,ESD IMSA-6802-01A	E3	K067680200010S		
	D1059	00D9630245100	D,SWITCHING KDS226ST1(C3)	E3	K005022600020S		
	D1060	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	ZD1002	00D9630382500	D,ZENER 0.2W 5.1V UDZ		K06605R14P400S		
CAPACITORS GROUP							
	C1001-1003	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1004-1006	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1007	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1008	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1009,1010	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1011,1012	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1018	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1019	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1020	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1021,1022	nsp	C,CERAMIC 100PF-J/50V		D011101167101S		
	C1023	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1024-1027	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1028,1029	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1030-1032	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1039	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1046-1053	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1054-1057	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1058-1067	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1068-1071	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1072	963134002270S	C,ELECT 100UF-MVK/6.3V		D050101181200S		
	C1073-1075	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1076-1078	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1079	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1080	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1081	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1082	nsp	C,CERAMIC 0.1UF-K/50V		D011102177101S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C1083	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1084	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1085	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1086	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1087	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1088	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1091,1092	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1094-1097	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1098	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1099,1100	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1101	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1103,1104	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1105	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1107	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1108	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1109,1110	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1111-1116	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1117,1118	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1119	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1123,1124	nsp	C,CERAMIC T.C COG12PF-J/50V		D010120167160S		
	C1125,1126	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1127	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1128	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1129	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1133-1135	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1136-1138	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1139-1141	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1145,1146	nsp	C,CERAMIC T.C COG18PF-J/50V		D010180167160S		
	C1147-1149	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1150	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C1151	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1152	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C1153-1159	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1161	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1162	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1163	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C1164-1167	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1168	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C1169	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1170	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C1171-1175	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1177	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1184	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1186	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1187-1193	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1197	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1200	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1202,1203	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1205	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1207	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1210,1211	nsp	C,CERAMIC 8PF-D/50V		D010080117160S		
	C1212	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1213	nsp	C,CERAMIC 0.082UF-K/50V		D010823777160S		
	C1214	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C1215-1217	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1218	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C1219	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C1220,1221	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1222,1223	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C1224	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1225,1226	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1227	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C1228	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C1229	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C1230	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1232,1233	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C1234	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1235,1236	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C1237	963134002270S	C,ELECT 100UF-MVK/6.3V		D050101181200S		
	C1238	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1239	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C1240	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1241	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1242	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C1243	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C1244	963134002270S	C,ELECT 100UF-MVK/6.3V		D050101181200S		
	C1245	963134002260S	C,ELECT 10UF-MVK/16V		D050100183200S		
	C1246	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C1247	963134002290S	C,ELECT 22UF-MVK/6.3V		D050220181200S		
	C1248	963134002200S	C,ELECT 1000UF-MVK/6.3V		D050102181200S		
	C1249,1250	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1251	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C1252	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C1253	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C1255	963134002290S	C,ELECT 22UF-MVK/6.3V		D050220181200S		
	C1256	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1257	963134002260S	C,ELECT 10UF-MVK/16V		D050100183200S		
	C1258	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1259	963134002210S	C,ELECT 330UF-MVK/6.3V		D050331181200S		
	C1260	963134002260S	C,ELECT 10UF-MVK/16V		D050100183200S		
	C1262	963134002290S	C,ELECT 22UF-MVK/6.3V		D050220181200S		
	C1263,1264	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1265	963134002260S	C,ELECT 10UF-MVK/16V		D050100183200S		
	C1266	963134002210S	C,ELECT 330UF-MVK/6.3V		D050331181200S		
	C1269	963134002290S	C,ELECT 22UF-MVK/6.3V		D050220181200S		
	C1270-1274	nsp	C,CERAMIC 0.1UF-K/50V		D011104577162S		
	C1275	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C1276	963134002270S	C,ELECT 100UF-MVK/6.3V		D050101181200S		
	C1277,1278	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C1279	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1280	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C1281	nsp	C,CERAMIC 0.1UF-K/50V		D011104577162S		
	C1282	nsp	C,CERAMIC 1000PF-K/50V		D011102777160S		
	C1283	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C1284,1285	nsp	C,CERAMIC 100PF-J/50V		D010101167160S		
	C1289	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1291	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1292	nsp	C,CERAMIC 100PF-J/50V		D011101167101S		
	C1293	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C1294-1297	nsp	C,CERAMIC 100PF-J/50V		D011101167101S		
	C1298-1301	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1302-1305	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C1306-1309	nsp	C,CERAMIC 100PF-J/50V		D011101167101S		
	C1310-1313	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1314-1317	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1318,1319	nsp	C,CERAMIC T.C COG5PF-C/50V		D010050107160S		
	C1320	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C1321	nsp	C,CERAMIC 100PF-J/50V		D011101167101S		
	C1322	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1323	nsp	C,CERAMIC 100PF-J/50V		D011101167101S		
	C1324	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C1325,1326	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1327	nsp	C,CERAMIC T.C COG6PF-D/50V		D010060117160S		
	C1328	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C1329	nsp	C,CERAMIC 100PF-J/50V		D011101167101S		
	C1330	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1331	nsp	C,CERAMIC T.C COG6PF-D/50V		D010060117160S		
	C1332	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1333	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1334	963134002270S	C,ELECT 100UF-MVK/6.3V		D050101181200S		
	C1335	nsp	C,CERAMIC 0.1UF-K/50V		D011104577162S		
	C1336	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1337	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104177101S		
	C1338	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1339	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104177101S		
	C1340	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1341	nsp	C,CERAMIC 100PF-J/50V		D011101167101S		
	C1342	nsp	C,CERAMIC 5600PF-K/50V	E3	D011562777160S		
	C1343	nsp	C,CERAMIC 390PF-J/50V	E3	D010391167160S		
	C1343	nsp	C,CERAMIC 390PF-C/50V	E2, EA, JP	D010391107160S		
	C1344	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1345	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C1346	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1347	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104577162S		
	C1348	963134002220S	C,ELECT 47UF-MVK/6.3V		D050470181200S		
	C1349	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104577162S		
	C1350	nsp	C,CERAMIC 0.022UF-Z/50V	E3	D011223597160S		
	C1351	963134002260S	C,ELECT 10UF-MVK/16V		D050100183200S		
	C1352	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1353	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104577162S		
	C1354	963134002270S	C,ELECT 100UF-MVK/6.3V		D050101181200S		
	C1355	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104177101S		
	C1356	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1357,1358	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1359	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1360	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1361	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1362,1363	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1364	963134002260S	C,ELECT 10UF-MVK/16V		D050100183200S		
	C1365	00D9630223708	C,CERAMIC 270PF-J/50V	E3	D010271167160S		
	C1365	nsp	C,CERAMIC 270PF-C/50V	E2, EA, JP	D010271107160S		
	C1366,1367	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C1368	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1369	963134002260S	C,ELECT 10UF-MVK/16V		D050100183200S		
	C1370	nsp	C,CERAMIC 330PF-J/50V	E3	D010331167160S		
	C1370	nsp	C,CERAMIC 330PF-C/50V	E2, EA, JP	D010331107160S		
	C1371	nsp	C,CERAMIC 2200PF-K/50V	E3	D011222777160S		
	C1372	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104177101S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C1373	963134002260S	C,ELECT 10UF-MVK/16V		D050100183200S		
	C1374	00D9630223708	C,CERAMIC 270PF-J/50V	E3	D010271167160S		
	C1374	nsp	C,CERAMIC 270PF-C/50V	E2, EA, JP	D010271107160S		
	C1375	963134002260S	C,ELECT 10UF-MVK/16V		D050100183200S		
	C1376	nsp	C,CERAMIC 330PF-J/50V	E3	D010331167160S		
	C1376	nsp	C,CERAMIC 330PF-C/50V	E2, EA, JP	D010331107160S		
	C1377	nsp	C,CERAMIC 2200PF-K/50V	E3	D011222777160S		
	C1378	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104177101S		
	C1379	963134002260S	C,ELECT 10UF-MVK/16V		D050100183200S		
	C1380	00D9630224008	C,CERAMIC 470PF-J/50V	E3	D010471167160S		
	C1380	nsp	C,CERAMIC 470PF-C/50V	E2, EA, JP	D010471107160S		
	C1381	963134002260S	C,ELECT 10UF-MVK/16V		D050100183200S		
	C1382	nsp	C,CERAMIC 390PF-J/50V	E3	D010391167160S		
	C1382	nsp	C,CERAMIC 390PF-C/50V	E2, EA, JP	D010391107160S		
	C1383	nsp	C,CERAMIC 2200PF-K/50V	E3	D011222777160S		
	C1384	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104177101S		
	C1385	963134002260S	C,ELECT 10UF-MVK/16V		D050100183200S		
	C1386	00D9630224008	C,CERAMIC 470PF-J/50V	E3	D010471167160S		
	C1386	nsp	C,CERAMIC 470PF-C/50V	E2, EA, JP	D010471107160S		
	C1387	963134002260S	C,ELECT 10UF-MVK/16V		D050100183200S		
	C1388	nsp	C,CERAMIC 1000PF-K/50V		D011102777160S		
	C1389	nsp	C,CERAMIC 120PF-J/50V		D010121167160S		
	C1390	963134002260S	C,ELECT 10UF-MVK/16V		D050100183200S		
	C1391	nsp	C,CERAMIC 390PF-J/50V	E3	D010391167160S		
	C1391	nsp	C,CERAMIC 390PF-C/50V	E2, EA, JP	D010391107160S		
	C1392	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C1393	nsp	C,CERAMIC 2200PF-K/50V	E3	D011222777160S		
	C1394	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104177101S		
	C1395	00D9630223902	C,CERAMIC 39PF-J/50V	E3	D010390167160S		
	C1395		C,CERAMIC 39PF-C/50V	E2, EA, JP	D010390107160S		
	C1396	963134002260S	C,ELECT 10UF-MVK/16V		D050100183200S		
	C1397	nsp	C,CERAMIC 1000PF-K/50V		D011102777160S		
	C1398	963134002260S	C,ELECT 10UF-MVK/16V		D050100183200S		
	C1399	nsp	C,CERAMIC 120PF-J/50V		D010121167160S		
	C1400	963134002260S	C,ELECT 10UF-MVK/16V		D050100183200S		
	C1401	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C1402	00D9630223708	C,CERAMIC 270PF-J/50V	E3	D010271167160S		
	C1402	nsp	C,CERAMIC 270PF-C/50V	E2, EA, JP	D010271107160S		
	C1403	nsp	C,CERAMIC 2200PF-K/50V	E3	D011222777160S		
	C1404	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104177101S		
	C1405,1406	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C1407	00D9630223902	C,CERAMIC 39PF-J/50V	E3	D010390167160S		
	C1407		C,CERAMIC 39PF-C/50V	E2, EA, JP	D010390107160S		
	C1408,1409	963134002260S	C,ELECT 10UF-MVK/16V		D050100183200S		
	C1410	00D9630223708	C,CERAMIC 270PF-J/50V	E3	D010271167160S		
	C1410	nsp	C,CERAMIC 270PF-C/50V	E2, EA, JP	D010271107160S		
	C1411	nsp	C,CERAMIC 2200PF-K/50V	E3	D011222777160S		
	C1412	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104177101S		
	C1413	963134002260S	C,ELECT 10UF-MVK/16V		D050100183200S		
	C1414	00D9630224008	C,CERAMIC 470PF-J/50V	E3	D010471167160S		
	C1414	nsp	C,CERAMIC 470PF-C/50V	E2, EA, JP	D010471107160S		
	C1415	963134002260S	C,ELECT 10UF-MVK/16V		D050100183200S		
	C1416	nsp	C,CERAMIC 390PF-J/50V	E3	D010391167160S		
	C1416	nsp	C,CERAMIC 390PF-C/50V	E2, EA, JP	D010391107160S		
	C1417	nsp	C,CERAMIC 2200PF-K/50V	E3	D011222777160S		
	C1418	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104177101S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C1419	963134002260S	C,ELECT 10UF-MVK/16V		D050100183200S		
	C1420	00D9630224008	C,CERAMIC 470PF-J/50V	E3	D010471167160S		
	C1420	nsp	C,CERAMIC 470PF-C/50V	E2, EA, JP	D010471107160S		
	C1421	963134002260S	C,ELECT 10UF-MVK/16V		D050100183200S		
	C1422	963134002250S	C,ELECT 0.1UF-MVK/50V		D050R10187200S		
	C1423	nsp	C,CERAMIC 390PF-J/50V	E3	D010391167160S		
	C1423	nsp	C,CERAMIC 390PF-C/50V	E2, EA, JP	D010391107160S		
	C1424	nsp	C,CERAMIC 2200PF-K/50V	E3	D011222777160S		
	C1425	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104177101S		
	C1426	nsp	C,CERAMIC 4.7UF-Z/6.3V	E3	D011475591160S		
	C1427,1428	nsp	C,CERAMIC 1000PF-K/50V	E3	D011102177101S		
	C1429	nsp	C,CERAMIC 4.7UF-Z/6.3V	E3	D011475591160S		
	C1430,1431	nsp	C,CERAMIC 1000PF-K/50V	E3	D011102177101S		
	C1432-1434	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104177101S		
	C1435	963134002260S	C,ELECT 10UF-MVK/16V	E3	D050100183200S		
	C1436	nsp	C,CERAMIC 1000PF-K/50V	E3	D011102177101S		
	C1437-1440	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104177101S		
	C1441-1444	nsp	C,CERAMIC 20PF-J/50V	E3	D010200167160S		
	C1445	963134002290S	C,ELECT 22UF-MVK/6.3V	E3	D050220181200S		
	C1446	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104177101S		
	C1448,1449	nsp	C,CERAMIC 1000PF-K/50V	E3	D011102177101S		
	C1450	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104177101S		
	C1451,1452	nsp	C,CERAMIC T.C COG2PF-C/50V	E3	D010020107160S		
	C1453-1460	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104177101S		
	C1461	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1462,1463	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104177101S		
	C1464	00D9630224008	C,CERAMIC 470PF-J/50V	E3	D010471167160S		
	C1465	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104177101S		
	C1466	nsp	C,CERAMIC HIK X7R3300PF-K/50V	E3	D011332777160S		
	C1467,1468	00D9630224008	C,CERAMIC 470PF-J/50V	E3	D010471167160S		
	C1469	nsp	C,CERAMIC HIK X7R3300PF-K/50V	E3	D011332777160S		
	C1470,1471	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104577160S		
	C1472	00D9630224008	C,CERAMIC 470PF-J/50V	E3	D010471167160S		
	C1473-1483	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1485	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1486	963134002270S	C,ELECT 100UF-MVK/6.3V		D050101181200S		
	C1487	nsp	C,CERAMIC 220PF-J/50V		D011221167101S		
	C1488,1489	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1490,1491	nsp	C,CERAMIC 100PF-J/50V		D011101167101S		
	C1492,1493	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1494	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1495	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1496	nsp	C,CERAMIC 0.047UF-K/50V		D011473177101S		
	C1497	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1498	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1499	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1500	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1501	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1502,1503	nsp	C,CERAMIC T.C COG10PF-D/50V		D010100117160S		
	C1504	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1505,1506	963134002300S	C,ELECT 10UF-MVK/25V		D050100184200S		
	C1507-1510	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1511	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1512	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C1513	nsp	C,CERAMIC 1000PF-K/50V	E3	D011102177101S		
	C1514	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104177101S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C1515	nsp	C,CERAMIC 4.7UF-Z/6.3V		D011475591160S		
	C1516	963134002270S	C,ELECT 100UF-MVK/6.3V		D050101181200S		
	C1517	963134002280S	C,ELECT 1UF-MVK/50V		D050010187200S		
	C1518	963134002280S	C,ELECT 1UF-MVK/50V	E3	D050010187200S		
	C1519	963134002280S	C,ELECT 1UF-MVK/50V		D050010187200S		
	C1520,1521	963134002290S	C,ELECT 22UF-MVK/6.3V		D050220181200S		
	C1524-1535	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1536,1537	963134002300S	C,ELECT 10UF-MVK/25V	E2, EA, JP	D050100184200S		
	C1538	nsp	C,CERAMIC 0.1UF-C/50V	E2, EA, JP	D010104127300S		
	C1539	nsp	C,CERAMIC 0.022UF-C/50V	E2, EA, JP	D010223127300S		
	C1540	nsp	C,CERAMIC 5600PF-C/50V	E2, EA, JP	D010562127300S		
	C1541-1548	nsp	C,CERAMIC 2200PF-C/50V	E2, EA, JP	D010222127200S		
	C1554	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C1555	00D2574015901	C,ELECT 33UF-M/16V		D050330083200S		
OTHERS PARTS GROUP							
	CB1001	nsp	COIL,BEAD MB-160808		D340160800060S		
	CB1002	nsp	COIL,BEAD BLM21PG221SN1		D340201212210S		
	CB1003-1008	nsp	COIL,BEAD MB-160808		D340160800060S		
	CB1013	nsp	COIL,BEAD MB-160808		D340160800060S		
	CN1001	nsp	CN.HOUSING 9P		L120912090010S		
	CN1002	nsp	CN.HOUSING 19P		L120912190010S		
	CN1003	nsp	CN.HOUSING 12P		L120912120010S		
	CN1004	nsp	CN.HOUSING 14P		L120912140010S		
	CN1006	nsp	CN.HOUSING 18P		L120912180010S		
	CN1008	nsp	CN.HOUSING 11P		L120912110010S		
	CN1009	nsp	CN.HOUSING 15P		L120912150010S		
	CP1005	nsp	CN.WAFER 7P		L101200100720S		
	CP1007	nsp	CN.WAFER 11P		L101200101120S		
	JACK1001-1004	00D9630388504	19PIN HDMI CONNECTOR		L109100190020S		
	JACK1005	963643002230S	4PIN SMALL COCNNETOR	E3	L109040000020S		
	TP1001	963644002240S	CN.FPC 11P VERTICAL(SMT)		L130961110010S		
	TP1002,1003	00D9630342508	CN.FPC 7P VERTICAL(SMT)		L130961070010S		
	X1001	00D3991039909	CRYSTAL CHIP FCX-03 (28.322MHz)		E80528R320010S		
	X1002	00D3990864900	CRYSTAL CHIP FCX-03 (13.5MHz)		E80513R500020S		
	X1003	00D3991052902	CRYSTAL CHIP FCX-03 (28.6363MHz)		E80528R630010S		
	X1004	00D3991054900	CRYSTAL CHIP FCX-03 (20.815MHz)		E80520R815010S		
	X1005	00D3991053901	CRYSTAL CHIP FCX-03 (24.5760MHz)		E80524R576010S		
	X1006	00D3991055912	CRYSTAL CHIP FCX-02 (45.1584MHz)	E3	E80545R150020S		
	X1008	00D3991038900	CRYSTAL CHIP FCX-03(12MHz)		E805120000010S		
		nsp	PLATE HDMI TOP		4470211476000S		
		nsp	PLATE HDMI BOTTOM		4470211486000S		

VIDEO P.W.B. UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC2001	00D2631082903	IC TK15420MTL		J127154200010S		
	IC2002-2004	00D2623445901	IC TC4051BFT		J040405101010S		
	IC2005	00D2631082903	IC TK15420MTL		J127154200010S		
	IC2006	00D2623447909	IC TC4053BFT TRIPLE		J040405301010S		
	IC2007	00D9630340005	IC MM74HC4053SJ		J040744053060S		
	IC2008	00D2631082903	IC TK15420MTL		J127154200010S		
	IC2009-2011	00D2623445901	IC TC4051BFT		J040405101010S		
	IC2012,2013	00D2631082903	IC TK15420MTL		J127154200010S		
	IC2014,2015	00D2623446900	IC TC4052BFT		J040405201010S		
	IC2016	00D2623756904	IC LA73053		J127730530010S		
	IC2017	00D9630382607	IC LC74782M		J170747820020S		
	IC2018	00D2631082903	IC TK15420MTL		J127154200010S		
	IC2019	00D9630218807	IC BU4094BCF-E2		J040140940030S		
	IC2020	00D9630218807	IC BU4094BCF-E2	JP	J040140940030S		
	IC2021,2022	00D9630327604	IC NJM2581M		J127258100010S		
	IC2023	00D9630340801	IC NJW1321FP1		J171132100010S		
	IC2024	00D9630313702	IC BA033T/3.3V	JP	J12603R300010S		
	IC2026	00D9630313702	IC BA033T/3.3V	E3, E2, EA	J12603R300010S		
	IC2026	00D2623446900	IC TC4052BFT	JP	J040405201010S		
	IC2027	00D2623446900	IC TC4052BFT	JP	J040405201010S		
	Q2001-2004	00D9630120801	TR KRC102S		J522010200210S		
	Q2005,2006	00D9630148508	TRKTA1504S		J520015040150S		
	Q2007,2008	00D9630121509	TR KTC3875S		J522038750210S		
	Q2009	00D9630148508	TRKTA1504S		J520015040150S		
	Q2010	00D9630120801	TR KRC102S		J522010200210S		
	Q2011	00D9630121606	TR KRC107S		J522107S00210S		
	Q2012	00D9630148508	TRKTA1504S		J520015040150S		
	Q2013	00D9630327808	TR KTA1281Y		J5001281Y0010S		
	Q2014	00D9600097304	TR KRC102M		J6020102M0010S		
	Q2201	00D9630121402	TR 2SA KRA104S R1	JP	J520010400210S		
	Q2202	00D9600285006	TR KRC104S	JP	J522104S00210S		
	D2001-2006	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D2014	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D2018	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D2024-2027	00D9600197107	D,RECTIFIER BRIDGE KBPC604		K047604000020S		
RESISTORS GROUP							
	R2247	00D9630337908	R,METAL FILM 33-J,1W		C060033065050S		
CAPACITORS GROUP							
	C2001	00D9630276409	C,ELECT 100UF-M/16V		D040101083090S		
	C2002	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2003-2006	nsp	C,CERAMIC 0.047UF-Z/50V		D011473597160S		
	C2008	00D9630276409	C,ELECT 100UF-M/16V		D040101083090S		
	C2009,2010	00D9630294203	C,ELECT 33UF-M/16V		D040330083050S		
	C2011,2012	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C2013,2014	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D040010087150S		
	C2015,2016	nsp	C,CERAMIC 0.047UF-Z/50V		D011473597160S		
	C2017-2020	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2022	00D9630276409	C,ELECT 100UF-M/16V		D040101083090S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C2023-2026	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2028	00D9630294203	C,ELECT 33UF-M/16V		D040330083050S		
	C2029	00D9630276409	C,ELECT 100UF-M/16V		D040101083090S		
	C2030,2031	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2032	00D9630294203	C,ELECT 33UF-M/16V		D040330083050S		
	C2033-2035	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2037	00D9630294203	C,ELECT 33UF-M/16V		D040330083050S		
	C2038	00D9630276409	C,ELECT 100UF-M/16V		D040101083090S		
	C2039-2041	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2042	00D9630294203	C,ELECT 33UF-M/16V		D040330083050S		
	C2043-2046	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2048,2049	00D9630276409	C,ELECT 100UF-M/16V		D040101083090S		
	C2050,2051	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2054	00D9630276409	C,ELECT 100UF-M/16V		D040101083090S		
	C2055	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2057	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C2058	00D9630276409	C,ELECT 100UF-M/16V		D040101083090S		
	C2059,2060	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2062	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C2063	00D9630294203	C,ELECT 33UF-M/16V		D040330083050S		
	C2064	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C2065,2066	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2067	00D9630294203	C,ELECT 33UF-M/16V		D040330083050S		
	C2068	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C2069-2071	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2073	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C2074	00D9630276409	C,ELECT 100UF-M/16V		D040101083090S		
	C2075	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C2076	00D9630276409	C,ELECT 100UF-M/16V		D040101083090S		
	C2077	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C2078	nsp	C,CERAMIC 20PF-J/50V		D010200167160S		
	C2079	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D040010087150S		
	C2080	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2081	nsp	C,CERAMIC 20PF-J/50V		D010200167160S		
	C2082	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2083	00D9639005998	C,CERAMIC T.C COG24PF-J/50V		D010240167160S		
	C2084	00D9630294203	C,ELECT 33UF-M/16V		D040330083050S		
	C2086	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2087	nsp	C,CERAMIC 0.01UF-K/50V	JP	D011103777160S		
	C2088	00D9639005998	C,CERAMIC T.C COG24PF-J/50V		D010240167160S		
	C2089	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D040010087150S		
	C2090	00D9630294203	C,ELECT 33UF-M/16V		D040330083050S		
	C2091,2092	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C2094	00D9630129909	C,CERAMIC HIK X7R1200PF-K/50V		D011122777160S		
	C2096	00D9630276409	C,ELECT 100UF-M/16V		D040101083090S		
	C2098	00D9630294203	C,ELECT 33UF-M/16V		D040330083050S		
	C2099,2100	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2102	00D9630234205	C,ELECT 10UF-M/50V	E3, E2, EA	D040100087070S		
	C2103	00D9630276409	C,ELECT 100UF-M/16V		D040101083090S		
	C2104	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2105	00D9630276409	C,ELECT 100UF-M/16V		D040101083090S		
	C2106-2108	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C2109	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2110	00D9630234205	C,ELECT 10UF-M/50V	E3, E2, EA	D040100087070S		
	C2111	nsp	C,CERAMIC 0.1UF-K/50V	E3, E2, EA	D011104577160S		
	C2111	nsp	C,CERAMIC 0.1UF-K/50V	JP	D011104577162S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C2112,2113	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2114	00D9630276409	C,ELECT 100UF-M/16V		D040101083090S		
	C2115	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2116	00D9630234205	C,ELECT 10UF-M/50V	E3, E2, EA	D040100087070S		
	C2117	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2118,2119	00D9630294203	C,ELECT 33UF-M/16V		D040330083050S		
	C2120	00D9630276409	C,ELECT 100UF-M/16V		D040101083090S		
	C2121,2122	00D9630234205	C,ELECT 10UF-M/50V	E3, E2, EA	D040100087070S		
	C2123	00D9630276409	C,ELECT 100UF-M/16V		D040101083090S		
	C2124,2125	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2126	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C2127	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2128	00D9630234205	C,ELECT 10UF-M/50V	E3, E2, EA	D040100087070S		
	C2129	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D040010087150S		
	C2130	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2131	00D9630276409	C,ELECT 100UF-M/16V		D040101083090S		
	C2132,2133	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2134,2135	00D9630294203	C,ELECT 33UF-M/16V		D040330083050S		
	C2136	00D9630276409	C,ELECT 100UF-M/16V		D040101083090S		
	C2137,2138	00D9630234205	C,ELECT 10UF-M/50V	E3, E2, EA	D040100087070S		
	C2139	00D9630276409	C,ELECT 100UF-M/16V		D040101083090S		
	C2140-2142	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C2143	00D9630234205	C,ELECT 10UF-M/50V	E3, E2, EA	D040100087070S		
	C2144,2145	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C2146	nsp	C,CERAMIC 0.047UF-Z/50V		D011473597160S		
	C2147	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C2148	nsp	C,CERAMIC 0.047UF-Z/50V		D011473597160S		
	C2149	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S		
	C2150	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D040010087150S		
	C2151	nsp	C,CERAMIC 0.047UF-Z/50V		D011473597160S		
	C2152	nsp	C,CERAMIC 220PF-J/50V		D010221167160S		
	C2153	00D9630217002	C,ELECT 3300UF-M/16V		D040332083010S		
	C2155	00D2544651900	C,ELECT 330UF-M/6.3V		D041331081020S		
	C2157	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C2161	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C2162	00D9639003097	C,FILM 0.1UF-K/250V		D02010407H080S		
	C2164,2165	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C2167,2168	nsp	C,CERAMIC 0.01UF-K/50V	JP	D011103777160S		
	C2169	00D9639006214	C,ELECT 3.3UF-M/50V		D0403R3087050S		
	C2170	00D9639006214	C,ELECT 3.3UF-M/50V	E3, E2, EA	D0403R3087050S		
	C2170	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)	JP	D040010087150S		
	C2301-2303	00D9630234205	C,ELECT 10UF-M/50V	JP	D040100087070S		
	C2304-2306	nsp	C,CERAMIC 100PF-J/50V	JP	D010101167160S		
	C2307-2309	00D9630234205	C,ELECT 10UF-M/50V	JP	D040100087070S		
	C2310-2312	nsp	C,CERAMIC 100PF-J/50V	JP	D010101167160S		
	C2313-2315	00D9630234205	C,ELECT 10UF-M/50V	JP	D040100087070S		
	C2316-2321	nsp	C,CERAMIC 100PF-J/50V	JP	D010101167160S		
OTHERS PARTS GROUP							
	BD2001,2002	00D9630223009	R,THICK 0-J,1/16W		C20000006M160S		
	BD2003	nsp	COIL,BEAD MB-160808		D340160800060S		
	CN1005	nsp	CN,WIRE 7P		L002201070060S		
	CN2001	nsp	CN.WAFER 12P		L101100031210S		
	CN2002	nsp	CN.WAFER 5P		L101100030510S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	CN2005	nsp	CN.WAFER 9P	E3, E2, EA	L101100030910S		
	CN2006	nsp	CN.WAFER 10P		L101100031010S		
	CN2007	nsp	CN,WIRE 3P		L000121030020S		
	CN2301	nsp	CN.HOUSING 12P	JP	L120912120010S		
	CN2302	nsp	CN.HOUSING 18P	JP	L120912180010S		
	CN2303,2304	nsp	CN.WAFER 9P	JP	L101100030910S		
	CP2001	nsp	CN.WAFER 9P	JP	L101100030910S		
	CP2002	nsp	CN.WAFER 18P		L100912180010S		
	CP2003	nsp	CN.WAFER 11P		L100912110010S		
	CP2004	nsp	CN.WAFER 15P		L100912150010S		
	CP2008	nsp	CN.WAFER 3P		L102526700300S		
	CP2009	nsp	CN.WAFER 4P		L101200100420S		
	CP2010	nsp	CN.WAFER 3P		L101200100320S		
	CP2301	nsp	CN.WAFER 12P	JP	L100912120010S		
	CP2302	nsp	CN.WAFER 18P	JP	L100912180010S		
	CP2303,2304	nsp	CN.WAFER 9P	JP	L101100040910S		
	F2001	00D9630104801	FUSE T3.15A /250V		N751223151110S		
	F2001A	nsp	HOLDER,FUSE CLIP		G645000050010S		
	F2001B	nsp	HOLDER,FUSE CLIP		G645000050010S		
	F2002	00D9630104801	FUSE T3.15A /250V		N751223151110S		
	F2002A	nsp	HOLDER,FUSE CLIP		G645000050010S		
	F2002B	nsp	HOLDER,FUSE CLIP		G645000050010S		
	JACK2001	00D9630218108	TER,RCA 3PIN		G60630401000YS		
	JACK2002	00D9630218001	TER,RCA 2PIN		G60122001000YS		
	JACK2003,2004	00D9630367709	TER,RCA 6PIN	E3, E2, EA	G603610D0032YS		
	JACK2301-2304	00D9630262701	CN.CATV 14P	JP	L170001200020S		
	L2001	00D9630115609	COIL INDUCTOR 33UH		D330330700520S		
	X2001	00D9630217400	CRYSTAL 14.31818MHZ		E80014R318080S		

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	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC401	00D9630366500	IC, KIA1117PI33		J126111733050S		
	IC402	00D9630366603	IC, KIA1117PI50		J126111750050S		
	IC403	963231002030S	IC KIA278R000P5	E3	J126780050020S		
	IC404	00D9630366500	IC, KIA1117PI33		J126111733050S		
	Q401SBL	00D9960018706	TR 2SD2390-Y		J5032390Y0000S		
	Q401SBR	00D9960018706	TR 2SD2390-Y		J5032390Y0000S		
	Q402SBL	00D9960018706	TR 2SB1560-Y		J5011560Y0000S		
	Q402SBR	00D9960018706	TR 2SB1560-Y		J5011560Y0000S		
	Q403SBL	00D9960018706	TR 2SB1560-Y		J502396400000S		
	Q403SBR	00D9630280107	TR 2SC3964		J502396400000S		
	Q404SBL	00D9600196700	TR KTC3200BL		J5023200B0050S		
	Q404SBR	00D9600196700	TR KTC3200BL		J5023200B0050S		
	Q406SBL	00D9600196205	TR KSA992F		J5000992F0050S		
	Q406SBR	00D9600196205	TR KSA992F		J5000992F0050S		
	Q407SBL	00D9600196205	TR KSA992F		J5000992F0050S		
	Q407SBR	00D9600196205	TR KSA992F		J5000992F0050S		
	Q408SBL	00D9600196700	TR KTC3200BL		J5023200B0050S		
	Q408SBR	00D9600196700	TR KTC3200BL		J5023200B0050S		
	Q409	00D9630327808	TR KTA1281Y		J5001281Y0010S		
	Q410	00D9630120801	TR KRC102S		J522010200210S		
	Q411,412	00D9630120801	TR KRC102S	E3	J522010200210S		
	Q413	00D9630327905	TR KTB778		J501778000010S		
	D106SBL	00D9630020309	D,SWITCHING 1SS133T		K000013300520S		
	D106SBR	00D9630020309	D,SWITCHING 1SS133T		K000013300520S		
	D401SBL	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D401SBR	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D402	00D9630020309	D,SWITCHING 1SS133T		K000013300520S		
	D402SBL	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D402SBR	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D403	00D9630020309	D,SWITCHING 1SS133T		K000013300520S		
	ZD401SBL	00D9630367008	D,ZENER 0.2W 3.3V UDZ		K06603R34P400S		
	ZD401SBR	00D9630367008	D,ZENER 0.2W 3.3V UDZ		K06603R34P400S		
	ZD402SBL	00D9630382209	D,ZENER 0.2W 3.0V UDZ		K06603R04P400S		⚠2
	ZD402SBR	00D9630382209	D,ZENER 0.2W 3.0V UDZ		K06603R04P400S		⚠2
	ZD403	00D9600095704	D,ZENER MTZJ6.2B		K06006R244520S		
RESISTORS GROUP							
	R410SBL	00D9639005642	R,METAL FILM 1.2K-J,1W		C060012265050S		
	R410SBR	00D9639005642	R,METAL FILM 1.2K-J,1W		C060012265050S		
	R411SBL	00D9609010719	R,METAL FILM 47-J,1W		C060047065060S		
	R411SBR	00D9609010719	R,METAL FILM 47-J,1W		C060047065060S		
	R414SBL	00D9639006285	R,FIXED 1WJ-5.6K		N113135656220S		
	R414SBR	00D9639006285	R,FIXED 1WJ-5.6K		N113135656220S		
	R415SBL	00D9639006285	R,FIXED 1WJ-5.6K		N113135656220S		
	R415SBR	00D9639006285	R,FIXED 1WJ-5.6K		N113135656220S		
	R419SBL	00D9630215907	R,METAL FILM 4.7-J,1W		C0604R7065050S		
	R419SBR	00D9630215907	R,METAL FILM 4.7-J,1W		C0604R7065050S		
	R420SBL	00D9630215907	R,METAL FILM 4.7-J,1W		C0604R7065050S		
	R420SBR	00D9630215907	R,METAL FILM 4.7-J,1W		C0604R7065050S		
	R421SBL	00D9630345903	R,FIXED 2WJ-0.47		N113136647820S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R421SBR	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R422SBL	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R422SBR	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R423SBL	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R423SBR	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R424SBL	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R424SBR	00D9630345903	R,FIXED 2WJ-0.47		N1131366478205		
	R429SBL	00D9639006256	R,FIXED 1WJ-10		N1131356100205		
	R429SBR	00D9639006256	R,FIXED 1WJ-10		N1131356100205		
	R430SBL	00D9639006256	R,FIXED 1WJ-10		N1131356100205		
	R430SBR	00D9639006256	R,FIXED 1WJ-10		N1131356100205		
	R437	00D9630337908	R,METAL FILM 33-J,1W		C0600330650505		
	VR401,402	00D9630366407	VR,SEMI CARBON EVN-DCAA03B 1KB		C5411023150005		
CAPACITORS GROUP							
	C402SBL	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C402SBR	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C403SBL	00D9630367101	C,CERAMIC 220PF-J/500V		D0042210605CS		
	C403SBR	00D9630367101	C,CERAMIC 220PF-J/500V		D0042210605CS		
	C404SBL	00D9630338208	C,CERAMIC 470PF-K/500V		D0044712705		
	C404SBR	00D9630338208	C,CERAMIC 470PF-K/500V		D0044712705		
	C405SBL	00D9630216100	C,CERAMIC 33PF-J/500V		D0003300605		
	C405SBR	00D9630216100	C,CERAMIC 33PF-J/500V		D0003300605		
	C406SBL	00D9630293709	C,ELECT 100UF-M/10V		D0401010820705		
	C406SBR	00D9630293709	C,ELECT 100UF-M/10V		D0401010820705		
	C407SBL	00D9639003194	C,FILM 0.0022UF-J/100V		D0202220605		
	C407SBR	00D9639003194	C,FILM 0.0022UF-J/100V		D0202220605		
	C408SBL	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C408SBR	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C410SBL	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C410SBR	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C413SBL	nsp	C,FILM 0.1UF-J/50V		D0201041670505		
	C413SBR	nsp	C,FILM 0.1UF-J/50V		D0201041670505		
	C427	00D9630382403	C,ELECT 15000UF-M/16V		D0401530830005		
	C428	00D9630234205	C,ELECT 10UF-M/50V		D0401000870705		
	C429	00D9639005875	C,ELECT 47UF-M/25V	E3	D0404700840705		
	C429	00D9600298802	C,ELECT 470UF-M/6.3V	E2, EA, JP	D0404710810705		
	C430	00D9630234205	C,ELECT 10UF-M/50V	E3	D0401000870705		
	C430	00D9600298802	C,ELECT 470UF-M/6.3V	E2, EA, JP	D0404710810705		
	C431,432	nsp	C,CERAMIC 1000PF-K/50V		D0111027771605		
	C433	00D9630276409	C,ELECT 100UF-M/16V		D0401010830905		
	C434	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D0400100871505		
	C435	00D9630276409	C,ELECT 100UF-M/16V	E3	D0401010830905		
	C435	00D9600298802	C,ELECT 470UF-M/6.3V	E2, EA, JP	D0404710810705		
	C436,437	nsp	C,CERAMIC 1000PF-K/50V		D0111027771605		
	C438	00D9630276409	C,ELECT 100UF-M/16V	E3	D0401010830905		
	C439	00D9609009940	C,ELECT 1000UF-M/16V	E2, EA, JP	D0401020830305		
	C440	00D9600133404	C,ELECT 10000UF 16V	E3	D0401030830205		
	C441	00D9630255608	C,ELECT 33UF-M/25V		D0403300840505		
	C442	00D9630024703	C,FILM 0.01UF-J/100V		D0201030605		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
OTHERS PARTS GROUP							
	CN201	nsp	CN,WIRE 3P		L000161030060S		
	CN401B	nsp	CN,WIRE 4P		L000131040051S		
	CN1001	nsp	CN,WIRE 11P		L000121110041S		
	CP102B	nsp	CN.WAFER 3P		L102526700300S		
	CP201	nsp	CN.WAFER 6P		L101200100610S		
	CP705	nsp	CN.WAFER 3P		L101200100310S		
	L401SBL	00D9630049005	COIL INDUCTOR 0.5UH		D330R50000000S		
	L401SBR	00D9630049005	COIL INDUCTOR 0.5UH		D330R50000000S		
	TP401,402	nsp	CN.WAFER 3P ANGLE		L101530150310S		

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	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC511	00D2631163000	IC KIA78R09PI		J126780900180S		
	IC514	00D9600159501	IC KIA7805API		J126780500110S		
	IC515	00D9600174900	IC KIA7815API		J126781500000S		
	IC516	00D9630021502	IC KIA7915PI		J126791500030S		
	Q511	00D9630327905	TR KTB778		J501778000010S		
	Q512	00D9630328205	TR KTD998		J503998000010S		
	Q2015	00D9630327905	TR KTB778		J501778000010S		
	D521,522	00D9630020309	D,SWITCHING 1SS133T		K000013300520S		
	D523	00D9630236504	D,SWITCHING AX-52		K120072140010S		
	D537	00D9630020309	D,SWITCHING 1SS133T		K000013300520S		
	D539	00D9630236504	D,SWITCHING AX-52		K120072140010S		
	ZD503,504	00D9600096004	D,ZENER MTZJ33B		K06033R044520S		
CAPACITORS GROUP							
	C526,527	00D9609010133	C,ELECT 220UF-M/35V	E3	D040221085060S		
	C526,527	00D2544580712	C,ELECT 100UF-M/50V	E2, EA, JP	D040101087150S		
OTHERS PARTS GROUP							
	CN501	nsp	CN.WAFER 10P		L101100031010S		
	CN508	nsp	CN,WIRE 4P		L000600040080S		
	CN509	nsp	CN,WIRE 3P		L000600030020S		
	CN2007	nsp	CN,WIRE 3P		L000800030170S		
	CP502	nsp	CN.WAFER 3P		L101200100310S		
	CP507	nsp	CN.WAFER 3P		L101200100310S		

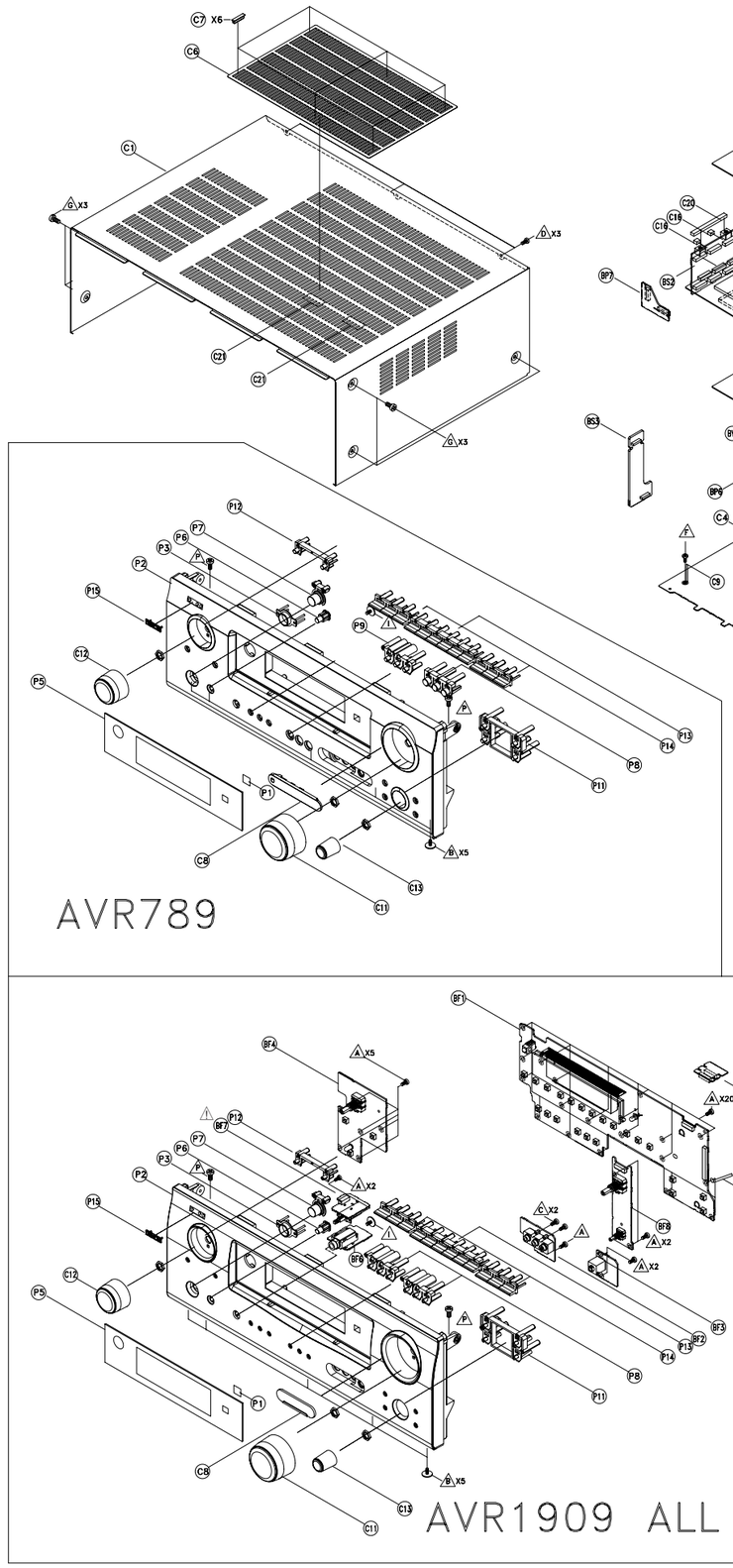
SIRIUS P.W.B. UNIT ASS'Y

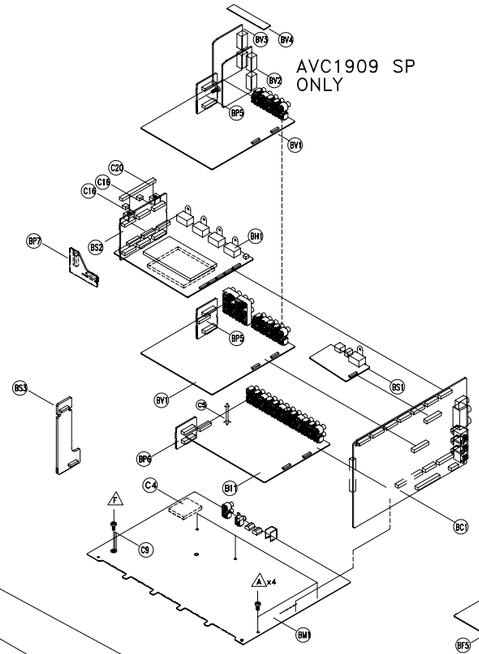
	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC901	00D9630024004	IC NJM2068M	E3	J121206800020S		
	IC902	00D2623174900	IC SN74HAHCT08		J040740800180S		
	D901	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D902-904	00D9630341305	D,ESD IMSA-6802-01A	AVR1909, 789EA, AVC1909	K067680200010S		
	D905,906	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D910,911	00D9630341305	D,ESD IMSA-6802-01A	E3	K067680200010S		
CAPACITORS GROUP							
	C901,902	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104577160S		
	C903	00D9630234205	C,ELECT 10UF-M/50V	E3	D040100087070S		
	C905	00D9630234205	C,ELECT 10UF-M/50V	E3	D040100087070S		
	C906,907	nsp	C,CERAMIC 330PF-J/50V	E3	D010331167160S		
	C909,910	00D9630234205	C,ELECT 10UF-M/50V	E3	D040100087070S		
	C911	00D9609010010	C,ELECT 4.7UF-M/50V		D0404R7087250S		
	C912	nsp	C,CERAMIC 1000PF-K/50V		D011102777160S		
	C913	nsp	C,CERAMIC 100PF-J/50V	E3	D010101167160S		
	C914,915	nsp	C,CERAMIC 100PF-J/50V	AVR1909, 789EA, AVC1909	D010101167160S		
	C917	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C918	nsp	C,CERAMIC 100PF-J/50V	E3	D010101167160S		
	C919,920	00D9630234205	C,ELECT 10UF-M/50V	E3	D040100087070S		
	C927	nsp	C,CERAMIC 0.1UF-K/50V	E3	D011104577160S		
OTHERS PARTS GROUP							
	BD901,902	nsp	COIL,BEAD MB-160808		D340160800060S		
	BKT901	nsp	BRACKET SN-P 0.5t/TUNER		4010212646000S		
	CN109	nsp	CN.WAFER 5P		L101100030510S		
	CN901	nsp	CN.HOUSING 15P		L120912150010S		
	CN2002	nsp	CN.HOUSING 18P		L120912180010S		
	CN2003	nsp	CN.HOUSING 11P		L120912110010S		
	CN2004	nsp	CN.HOUSING 15P		L120912150010S		
	CN2005	nsp	CN.WAFER 10P		L101100031010S		
	CP110	nsp	CN.WAFER 5P		L101100040510S		
	CP1006	nsp	CN.WAFER 18P		L100912180010S		
	CP1008	nsp	CN.WAFER 11P		L100912110010S		
	CP1009	nsp	CN.WAFER 15P		L100912150010S		
	JACK901	00D9630294601	JACK,D3.5 EARPHONE	AVR1909, 789EA, AVC1909	G40100350000YS		
	JACK902	00D9630333601	MINI DIN CONNECTOR 8P YKF51-5397N	E3	G4035153970005		

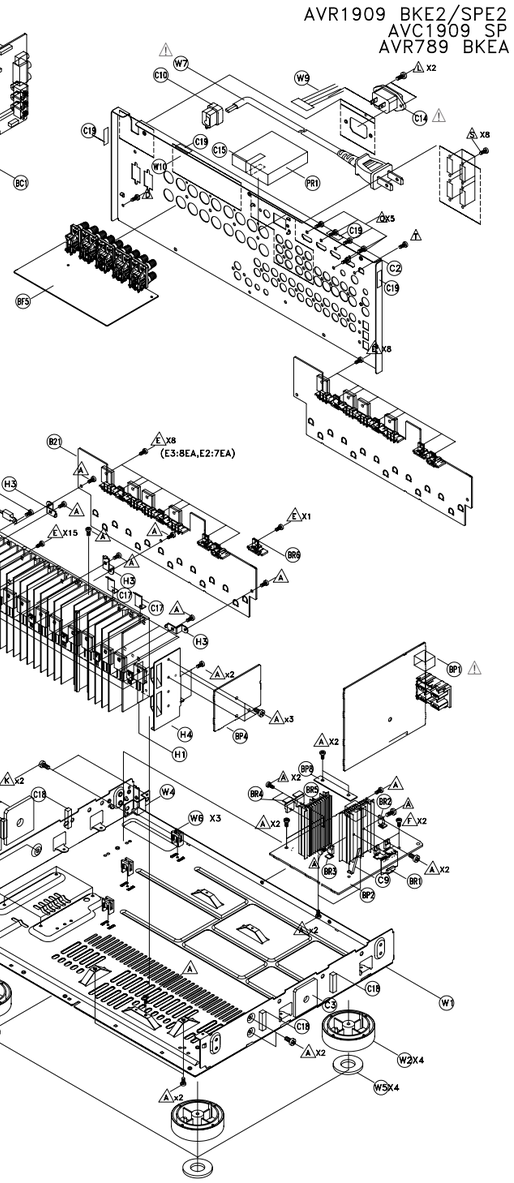
EXPLODED VIEW

WARNING:
Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

⚠印の部分は安全を維持するために重要な部品です。従って交換時は必ず指定の部品を使用してください。







---MEMO---

PARTS LIST OF EXPLODED VIEW

＊本表に "nsp" と記載されている部品は供給できません。
＊ Parts for which "nsp" is indicated on this table cannot be supplied.

＊本表に "nsp" と記載されている基板 ASS'Y は供給できません。基板 ASS'Y の修理の際には基板部品表を確認のうえ、交換部品を発注してください。
＊ P.W.B. ASS'Y for which "nsp" is indicated on this table cannot be supplied. When repairing the P.W.B. ASS'Y, check the board parts table and order replacement parts.

＊本表に記載されている部品は、補修用部品のため製品に使用している部品とは一部、形状、寸法などが異なる場合があります。
＊ The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.

Note: The symbols in the column "Remarks" indicate the following destinations.

BKE3 : U.S.A. & Canada model (Black model)	BKEA : Australia model (Black model)
BKE2 : Europe model (Black model)	SPE2 : Europe model (Premium Silver model)
BKJP(AVC1909) : Japan model (Black model)	SPJP(AVC1909) : Japan model (Premium Silver model)

	Ref. No.		Part Name	Remarks		Q'ty	New
	BM1	nsp	MAIN P.W.B. UNIT ASSY	AVR1909BKE3	7025HK0804010	1	
	BM1	nsp	MAIN P.W.B. UNIT ASSY	AVR1909BKE2	7025HK0804060	1	
	BM1	nsp	MAIN P.W.B. UNIT ASSY	AVR1909SPE2	7025HK0804050	1	
	BM1	nsp	MAIN P.W.B. UNIT ASSY	AVR789BKE3	7025HK0804020	1	
	BM1	nsp	MAIN P.W.B. UNIT ASSY	AVR789BKEA	7025HK0804040	1	
	BM1	nsp	MAIN P.W.B. UNIT ASSY	AVC1909JP	7025HK0804030	1	
	BI1	nsp	INPUT P.W.B. UNIT ASSY	AVR1909BKE3	7025HK0804011	1	
	BI1	nsp	INPUT P.W.B. UNIT ASSY	AVR1909BKE2	7025HK0804061	1	
	BI1	nsp	INPUT P.W.B. UNIT ASSY	AVR1909SPE2	7025HK0804051	1	
	BI1	nsp	INPUT P.W.B. UNIT ASSY	AVR789BKE3	7025HK0804021	1	
	BI1	nsp	INPUT P.W.B. UNIT ASSY	AVR789BKEA	7025HK0804041	1	
	BI1	nsp	INPUT P.W.B. UNIT ASSY	AVC1909JP	7025HK0804031	1	
	BF	nsp	FRONT P.W.B. UNIT ASSY	AVR1909BKE3	7025HK0804012	1	
	BF	nsp	FRONT P.W.B. UNIT ASSY	AVR1909BKE2	7025HK0804062	1	
	BF	nsp	FRONT P.W.B. UNIT ASSY	AVR1909SPE2	7025HK0804052	1	
	BF	nsp	FRONT P.W.B. UNIT ASSY	AVR789BKE3	7025HK0804022	1	
	BF	nsp	FRONT P.W.B. UNIT ASSY	AVR789BKEA	7025HK0804042	1	
	BF	nsp	FRONT P.W.B. UNIT ASSY	AVC1909JP	7025HK0804032	1	
	BF1	-	FRONT UNIT				
	BF2	-	V.AUX UNIT				
	BF3	-	MIC UNIT				
	BF4	-	FUNCTION UNIT				
	BF5	-	SPK UNIT				
	BF6	-	H/P UNIT				
	BF7	-	P/S UNIT				
	BF8	-	ENCODER UNIT				
	BF9	-	ENCODER CNT UNIT				
	BP	nsp	POWER P.W.B. UNIT ASSY	AVR1909BKE3	7025HK0804013	1	
	BP	nsp	POWER P.W.B. UNIT ASSY	AVR1909BKE2	7025HK0804063	1	
	BP	nsp	POWER P.W.B. UNIT ASSY	AVR1909SPE2	7025HK0804053	1	
	BP	nsp	POWER P.W.B. UNIT ASSY	AVR789BKE3	7025HK0804023	1	
	BP	nsp	POWER P.W.B. UNIT ASSY	AVR789BKEA	7025HK0804043	1	
	BP	nsp	POWER P.W.B. UNIT ASSY	AVC1909JP	7025HK0804033	1	
	BP1	-	POWER UNIT				
	BP2	-	SUPPLY UNIT				
	BP3	-	GUIDE_L UNIT				
	BP4	-	GUIDE_R UNIT				
	BP5	-	CNT1 UNIT				
	BP6	-	CNT2 UNIT				
	BP7	-	CNT3 UNIT				
	BP8	-	CNT4 UNIT				

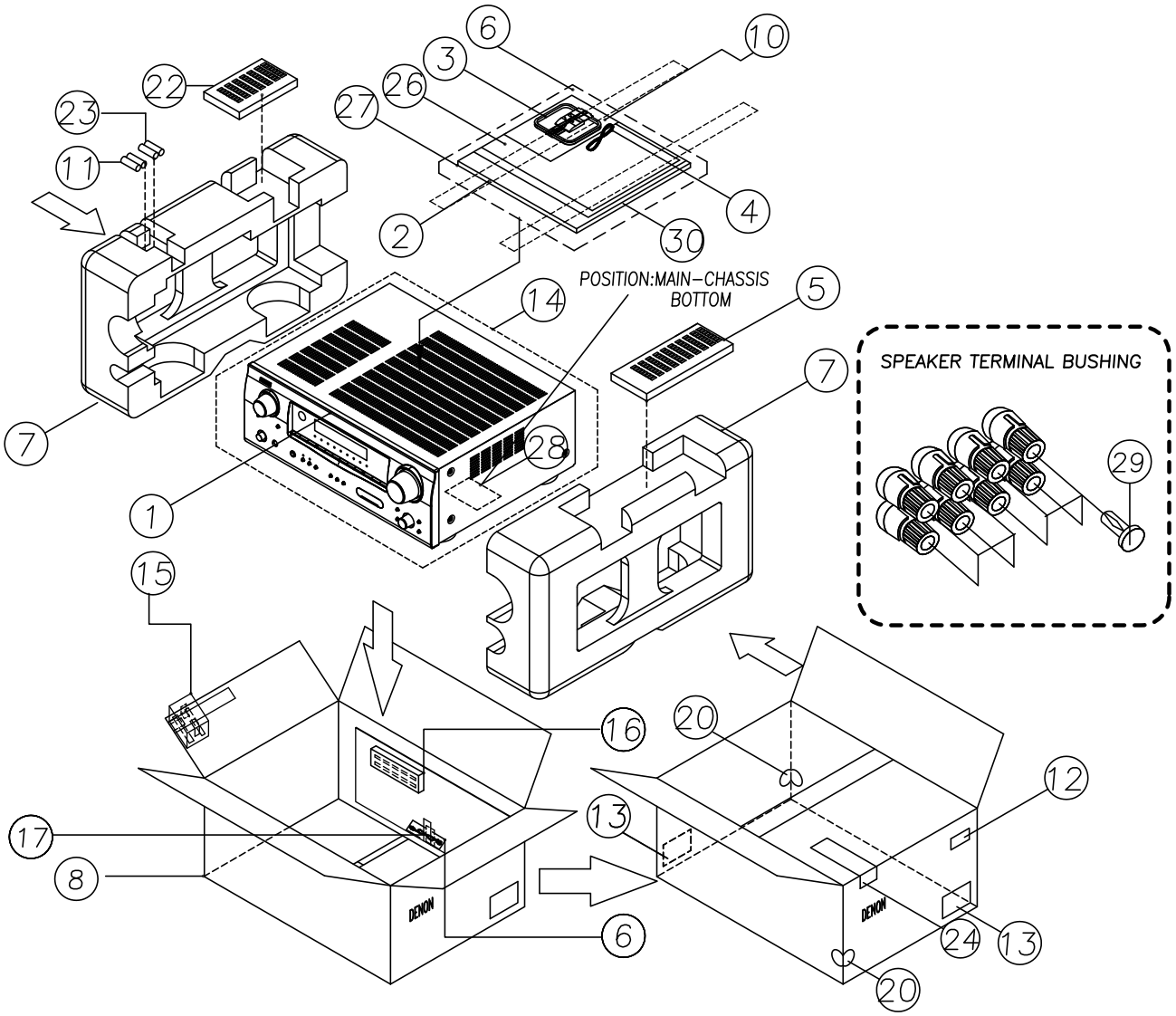
	Ref. No.		Part Name	Remarks		Q'ty	New
	B21	nsp	2CH P.W.B. UNIT ASSY	AVR1909BKE3	7025HK0804014	1	
	B21	nsp	2CH P.W.B. UNIT ASSY	AVR1909BKE2	7025HK0804064	1	
	B21	nsp	2CH P.W.B. UNIT ASSY	AVR1909SPE2	7025HK0804054	1	
	B21	nsp	2CH P.W.B. UNIT ASSY	AVR789BKE3	7025HK0804024	1	
	B21	nsp	2CH P.W.B. UNIT ASSY	AVR789BKEA	7025HK0804044	1	
	B21	nsp	2CH P.W.B. UNIT ASSY	AVC1909JP	7025HK0804034	1	
	BC1	nsp	CPU P.W.B. UNIT ASSY	AVR1909BKE3	7025HK0804015	1	
	BC1	nsp	CPU P.W.B. UNIT ASSY	AVR1909BKE2	7025HK0804065	1	
	BC1	nsp	CPU P.W.B. UNIT ASSY	AVR1909SPE2	7025HK0804055	1	
	BC1	nsp	CPU P.W.B. UNIT ASSY	AVR789BKE3	7025HK0804025	1	
	BC1	nsp	CPU P.W.B. UNIT ASSY	AVR789BKEA	7025HK0804045	1	
	BC1	nsp	CPU P.W.B. UNIT ASSY	AVC1909JP	7025HK0804035	1	
	BV	nsp	VIDEO P.W.B. UNIT ASSY	AVR1909BKE3	7025HK0804016	1	
	BV	nsp	VIDEO P.W.B. UNIT ASSY	AVR1909BKE2	7025HK0804066	1	
	BV	nsp	VIDEO P.W.B. UNIT ASSY	AVR1909SPE2	7025HK0804056	1	
	BV	nsp	VIDEO P.W.B. UNIT ASSY	AVR789BKE3	7025HK0804026	1	
	BV	nsp	VIDEO P.W.B. UNIT ASSY	AVR789BKEA	7025HK0804046	1	
	BV	nsp	VIDEO P.W.B. UNIT ASSY	AVC1909JP	7025HK0804036	1	
	BV1	nsp	VIDEO UNIT	AVC1909JP only	7028066811010		
	BV2	nsp	DIN1 UNIT	AVC1909JP only	7028066812010		
	BV3	nsp	DIN2 UNIT	AVC1909JP only	7028066813010		
	BV4	nsp	CNT UNIT	AVC1909JP only	7028066814010		
	BH	963189000860D	HDMI P.W.B. UNIT ASSY	AVR1909BKE3/AVR789BKE3	7025HK0804017	1	
	BH	963189001430D	HDMI P.W.B. UNIT ASSY	AVR1909BKE2/SPE2/BKEA/JP	7025HK0804067	1	
	BS	nsp	SIRIUS P.W.B. UNIT ASSY	AVR1909BKE3	7025HK0804018	1	
	BS	nsp	SIRIUS P.W.B. UNIT ASSY	AVR1909BKE2	7025HK0804068	1	
	BS	nsp	SIRIUS P.W.B. UNIT ASSY	AVR1909SPE2	7025HK0804058	1	
	BS	nsp	SIRIUS P.W.B. UNIT ASSY	AVR789BKE3	7025HK0804028	1	
	BS	nsp	SIRIUS P.W.B. UNIT ASSY	AVR789BKEA	7025HK0804048	1	
	BS	nsp	SIRIUS P.W.B. UNIT ASSY	AVC1909JP	7025HK0804038	1	
	BS1	-	SIRIUS UNIT				
	BS2	-	VIDEO CNT UNIT				
	BS3	-	VIDEO CNT2 UNIT				
	BR	nsp	REG P.W.B. UNIT ASSY	AVR1909BKE3	7025HK0804019	1	
	BR	nsp	REG P.W.B. UNIT ASSY	AVR1909BKE2	7025HK0804069	1	
	BR	nsp	REG P.W.B. UNIT ASSY	AVR1909SPE2	7025HK0804069	1	
	BR	nsp	REG P.W.B. UNIT ASSY	AVR789BKE3	7025HK0804019	1	
	BR	nsp	REG P.W.B. UNIT ASSY	AVR789BKEA	7025HK0804069	1	
	BR	nsp	REG P.W.B. UNIT ASSY	AVC1909JP	7025HK0804069	1	
	BR1	-	REG1 UNIT				
	BR2	-	REG2 UNIT				
	BR3	-	REG3 UNIT				
	BR4	-	REG4 UNIT				
	BR5	-	REG5 UNIT				
	BR6	-	REG6 UNIT				
	P1	963409002050D	SHEET WINDOW		12102106820005	1	
	P2	963402000880D	PANEL FRONT	AVR1909BKE3	3067213911000S	1	
	P2	963402000950D	PANEL FRONT	AVR1909BKE2	3067213911100S	1	
	P2	963402000960D	PANEL FRONT	AVR1909SPE2	3067213911200S	1	
	P2	963402000920D	PANEL FRONT	AVR789BKE3	3067213901000S	1	

	Ref. No.		Part Name	Remarks		Q'ty	New	
	P2	963402001930D	PANEL FRONT	AVR789BKEA	3067213901100S	1		
	P2	963402000970D	PANEL FRONT	AVC1909SPJP	3067213911210S	1		
	P2	963402003070D	PANEL FRONT	AVC1909BKJP	3067213911110S	1	*	3
	P3	00D9630137807	LENS STANDBY		3710210503000S	1		
	P4	nsp	CLAMP WIRE(MTG)		4330000310000S	1		
	P5	963416001330D	WINDOW DISPLAY	E3, EA	5077212382060S	1		
	P5	963416001340D	WINDOW DISPLAY	E2	5077212382070S	1		
	P5	963416001350D	WINDOW DISPLAY	JP	5077212382080S	1		
	P6	00D9630139708	BUTTON POWER	BK model	5097212358000SZ	1		
	P6	00D9630230005	BUTTON POWER	SP model	5097212358300SZ	1		
	P7	00D9630184106	BUTTON STANDBY	BK model	5097212368000SZ	1		
	P7	00D9630221904	BUTTON STANDBY	SP model	5097212368030SZ	1		
	P8	00D9630364700	BUTTON 3KEY	AVR1909, AVC1909 : BK model	5097213331000S	2		
	P8	00D9630364906	BUTTON 3KEY	AVR1909, AVC1909 : SP model	5097213331110S	2		
	P9	963411001400D	BUTTON 3KEY A	AVR789	5097213601000S	1		
	P10	963411001410D	BUTTON 3KEY B	AVR789	5097213611000S	1		
	P11	00D9630364401	BUTTON 4KEY	AVR1909, AVC1909 : BK model	5097213341000S	1		
	P11	00D9630364607	BUTTON 4KEY	AVR1909, AVC1909 : SP model	5097213341110S	1		
	P11	963411001420D	BUTTON 4KEY	AVR789 : BK model	5097213621000S	1		
	P12	00D9630362305	BUTTON 2KEY	AVR1909, AVC1909 : BK model	5097213351000S	1		
	P12	00D9630362501	BUTTON 2KEY	AVR1909, AVC1909 : SP model	5097213351110S	1		
	P12	963411001390D	BUTTON 2 KEY	AVR789 : BK model	5097213591000S	1		
	P13	00D9630365404	BUTTON WIN 6KEY	BK model	5097213361000S	1		
	P13	00D9630365703	BUTTON WIN 6KEY	SP model	5097213361110S	1		
	P14	00D9630365002	BUTTON WIN 3KEY	BK model	5097213371000S	2		
	P14	00D9630365301	BUTTON WIN 3KEY	SP model	5097213371110S	2		
	P15	00D9630362109	BADGE DENON	BK model	5630210028300S	1		
	P15	00D9630362202	BADGE DENON	SP model	5630210028400S	1		
	H1	nsp	TAPE ACETATE CLOTH		1220210199010S	1		
	H2	nsp	HEAT SINK MAIN		2120211108000S	1		
	H3	nsp	BRACKET PCB		4010210186000S	3		
	H4	nsp	BRACKET HEATSINK R		4010213136000S	1		
	H5	nsp	BRACKET HEATSINK L		4010213146000S	1		
	H6	00D9600187900	POSISTOR		F320161001020S	1		
	W1	nsp	CHASSIS MAIN		3200212146101S	1		
	W2	00D9630137904	FOOT		4007210261000S	4		
	W3	nsp	BRACKET TRANS		4010210466002S	1		
	W4	nsp	BRACKET SAFETY	E2, EA, JP	4010213606000S	1		
	W5	00D9630214607	CUSHION FOOT		4050211295000S	4		
	W6	nsp	SUPPORTER PCB		4070001601010S	3		
⚠	W7	00D9630292205	CORD ASSY	E3	L068125100020S	1		
⚠	W8	963101000870D	POWER TRANS (MAIN)	E3	8200960660480S	1		
⚠	W8	963101001310D	POWER TRANS (MAIN)	E2, EA	8200960660490S	1		
⚠	W8	963101001320D	POWER TRANS (MAIN)	JP	8200960660500S	1		
	W9	nsp	CN,WIRE	E2, EA, JP	L000121020010S	1		
	W10	nsp	LABEL FUSE CAUTION	E3	5507000001110S	1		
	C1	963403001970D	CABINET TOP	BK model	3000210936300S	1		
	C1	963403001980D	CABINET TOP	SP model	3000210936400S	1		
	C2	963406001990D	CHASSIS BACK	AVR1909BKE3	3207212496000S	1		
	C2	963406002000D	CHASSIS BACK	AVR1909BKE2/SPE2	3207212496200S	1		
	C2	963406002010D	CHASSIS BACK	AVR789BKE3	3207212496100S	1		
	C2	963406001960D	CHASSIS BACK	AVR789BKEA	3207212496300S	1		
	C2	963406002020D	CHASSIS BACK	AVC1909BKJP/SPJP	3207212496400S	1		

	Ref. No.		Part Name	Remarks		Q'ty	New
	C3	nsp	CUSHION SIDE		4050211095000S	3	
	C4	nsp	CUSHION BD		4050211845000S	1	
	C5	nsp	SUPPORTER		4070000340000S	1	
	C6	963409001780D	COVER SAFETY	AVR1909BKE2, 789BKEA	4310212122020S	1	
	C6	963409001790D	COVER SAFETY	AVR1909SPE2	4310212122010S	1	
	C7	963454001800D	COVER HOLDER	AVR1909BKE2, 789BKEA	4310213701000S	6	
	C7	963454001810D	COVER HOLDER	AVR1909SPE2	4310213701100S	6	
	C8	963419001750D	COVER RCA	AVR1909BKE3/BKE2	4317211701010S	1	
	C8	963419001740D	COVER RCA	AVR1909SPE2	4317211701110S	1	
	C8	963419001760D	COVER RCA	AVR789BKE3/BKEA	4317214171000S	1	
	C9	nsp	CLAMP WIRE(MTG)		4330000310000S	1	
	C10	nsp	STOPPER CORD AC	E3	4380210002000S	1	
	C11	963412000560D	KNOB VOLUME(KD)	BK model	5080211751000SZ	1	
	C11	412510002038D	KNOB VOLUME	SP model	5087211891000S	1	
	C12	963412000570D	KNOB FUNCTION(KD)	BK model	5080211761000SZ	1	
	C12	412510003031D	KNOB FUNCTION	SP model	5087211901000S	1	
	C13	963412000580D	KNOB SELECT(KD)	BK model	5080211771000SZ	1	
	C13	412510004034D	KNOB SELECT	SP model	5087211911000S	1	
	C14	90M-YT004530R	AC INLET	E2, EA, JP	G430040560020S	1	
	C15	nsp	ACETATE TAPE		1220210959010S	1	
	C16	nsp	CUSHION CNT		4050212165000S	2	
	C17	nsp	PLATE EARTH		4470211366000S	2	
	C18	nsp	GASKET EMC A		4400210179000S	4	
	C19	nsp	GASKET EMC A		4400210189000S	4	
	C20	nsp	GASKET SIRIUS		4400210259000S	1	
	C21	nsp	GASKET TOP		4400210269000S	2	
	C22	nsp	ACETATE TAPE	E2, EA, JP	1220210389000S	1	
	PR1	00D2160124002	TUNER,FM/AM	E3	E903014000020S	1	
	PR1	00D9630145705	TUNER,FM/AM	E2, EA	E903014100030S	1	
	★1	00D9630193003	CABLE,FLAT CARD 1.25MM	AVR1909, 789	N712151544811S	1	
	★2	963606000600S	CABLE,FLAT CARD SHIELD 1.25MM		N714351634810S	1	
	★4	00D9960018706	TR PNP 2SB1560-Y	Q102C,Q102FL,Q102FR, Q102SL,Q102SR	J5011560Y0000S	5	
	★5	00D9630280107	TR NPN 2SC3964	Q103C,Q103FL,Q103FR, Q103SL,Q103SR	J5023964000000S	5	
	★6	00D9960018706	TR NPN 2SD2390-Y	Q101C,Q101FL,Q101FR, Q101SL,Q101SR	J5032390Y0000S	5	
	★7	nsp	CLAMP		4330040343010S	11	
SCREWS							
	A	nsp	SCREW,TAP TITE +2S 3*8 B-TYPE ZNW/BH		B020030081B10S	73	
	B	nsp	SCREW +2S 3*8 BK WASHER PI12	BK model	1500001456020S	5	
	B	nsp	SCREW +2S 3*8 NI WASHER PI12	SP model	1500001456030S	5	
	C	nsp	SCREW,TAP TITE +2S 3*15 B-TYPE ZNW/BH		B020030151B10S	2	
	D	nsp	SCREW,TAP TITE +2S 3*10 B-TYPE(DOT) BK/BH	E3	B020030103B11S	39	
	D	nsp	SCREW,TAP TITE +2S 3*10 B-TYPE(DOT) BK/BH	E2	B020030103B11S	37	
	D	nsp	SCREW,TAP TITE +2S 3*10 B-TYPE(DOT) BK/BH	EA	B020030103B11S	36	
	D	nsp	SCREW,TAP TITE +2S 3*10 B-TYPE(DOT) BK/BH	JP	B020030103B11S	34	

	Ref. No.		Part Name	Remarks		Q'ty	New
	E	nsp	SCREW,TAPPING ASSY +2S 3*14 P(Φ6)+S-WASHER ZNY/HH		B018230141H11S	24	
	E	nsp	SCREW,TAPPING ASSY +2S 3*14 P(Φ6)+S-WASHER ZNY/HH		B018230141H11S	23	
	F	nsp	SCREW,TAP TITE +2S 3*17 B-TYPE ZNW/BH		B020030171B10S	3	
	G	00D9630048307	SCREW +2S 4*8 B-TYPE(DOT) BK/BH	BK model	1500040083B10S	6	
	G	00D9639004012	SCREW +2S 4*8 B-TYPE(DOT) NI/BH	SP model	1500040084B10S	6	
	H	nsp	SCREW,TAP TITE ASSY +3S 4*10 P+S-WASHER ZNW/BH		B028940101B10S	4	
	I	nsp	SCREW +2S 3*8 ZnY WASHER PI12		1500001456010S	1	
	J	nsp	SCREW,TAP TITE +3S 4*6 S-TYPE ZNW/BH		B020740061B10S	6	
	K	nsp	SCREW,TAP TITE +2S 3*5 B-TYPE ZNW/BH	E2, EA, JP	B020030051B10S	2	
	L	nsp	SCREW,TAP TITE +2S 3*10 B-TYPE BK/FH	E2, EA, JP	B020030103F10S	2	
	P	nsp	SCREW +2S 3*8 PI9.5 B-TYPE ZNW		1500001206010S	2	
	Q	nsp	SCREW,TAP TITE +3S 3*8 BK/BH	E3, E2, JP	B020930083B10S	5	
	Q	nsp	SCREW,TAP TITE +3S 3*8 BK/BH	EA	B020930083B10S	4	
	R	nsp	SCREW,TAP TITE +2S 3*6 B-TYPE BK/BH		B020030063B10S	2	
	S	nsp	SCREW,TAP TITE +2S 2x8 B-TYPE BLACK/BH	JP	B020020081B10S	8	
	T	nsp	SCREW,MACHINE +M 3*10 BK/BH	E3	B000030103B10S	1	

PACKING VIEW



PARTS LIST OF PACKING & ACCESSORIES

＊本表に "nsp" と記載されている部品は供給できません。
＊ Parts for which "nsp" is indicated on this table cannot be supplied.

＊本表に記載されている部品は、補修用部品のため製品に使用している部品とは一部、形状、寸法などが異なる場合があります。
＊ The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.

Note: The symbols in the column "Remarks" indicate the following destinations.

BKE3 : U.S.A. & Canada model (Black model)
BKE2 : Europe model (Black model)
BKJP(AVC1909) : Japan model (Black Silver model)
BKEA : Australia model (Black model)
SPE2 : Europe model (Premium Silver model)
SPJP(AVC1909) : Japan model (Premium Silver model)

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	1	nsp	set		-		
	2	963541000890D	INSTRUCTION MANUAL	AVR1909BKE3	5707210100130S	1	
	2	963541001140D	INSTRUCTION MANUAL	AVR1909BKE2/SPE2	5707210100170S	1	
	2	963541001120D	INSTRUCTION MANUAL	AVR789BKE3	5707210100140S	1	
	2	963541001910D	INSTRUCTION MANUAL	AVR789BKEA	5707210100160S	1	
	2	963541001130D	INSTRUCTION MANUAL	AVC1909JP	5707210100150S	1	
	3	00D2310089007	ANTENNA,WIRE AM	AVR1909, 789	E605010110010S	1	
	4	00D9630158006	ANTENNA,WIRE FM	AVR1909, 789	E605010070001S	1	
	5	307010013018D	REMOCON (RC-1099)		8300109900010S	1	
	6	nsp	POLY BAG		6330000240000S	1	
	7	00D9630366902	CUSHION,SNOW		6230211924000S	1	
	8	963531001230D	BOX,GIFT	AVR1909BKE3	60072110300U0S	1	
	8	963531001260D	BOX,GIFT	AVR1909BKE2/SPE2	60072110300Y0S	1	

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New	
	8	963531001240D	BOX,GIFT	AVR789BKE3	60072110300V0S	1		
	8	963531001920D	BOX,GIFT	AVR789BKEA	60072110300X0S	1		
	8	963531001250D	BOX,GIFT	AVC1909SPJP	60072110300W0S	1		
	8	963531003080D	BOX,GIFT	AVC1909BKJP	60072110300Z0S	1	*	3
	9	nsp	CARD WARRANTY	E3	5777001610039S	1		
	10	nsp	CARD S.S LIST	AVR1909, 789	577700162001DS	1		
	11	nsp	BATTERY,DRY (AA)		G670001R50190S	2		
	12	nsp	LABEL UPC	AVR1909BKE3	5507000001710S	1		
	12	nsp	LABEL UPC	AVR1909BKE2	5507000001750S	1		
	12	nsp	LABEL UPC	AVR1909SPE2	5507000001740S	1		
	12	nsp	LABEL UPC	AVR789BKE3	5507000001720S	1		
	12	nsp	LABEL UPC	AVR789BKEA	5507000001780S	2		
	12	nsp	LABEL UPC	AVC1909SPJP	5507000001730S	1		
	13	nsp	LABEL CONTROL		5500014920010S	2		
	14	00D5040192106	PE,SHEET SET		6327040059000S	1		
	15	324010001003D	MIC CONDENSER		M040000310030S	1		
	16	963537001500D	PAD ASSY PACKING		6248210460100S	1		
	17	90M-ZC000600R	CORD ASSY	E2	L068250160020S	1		
	17	963611001490S	CORD ASSY	EA	L068250100070S	1		
	17	00D9630353403	CORD ASSY	JP	L068125120030S	1		
	20	00D5139111030	LABEL COLOR	AVR1909SPE2	5507020170680S	2		
	22	307010026007D	REMOCON (RC-1107)	AVR1909BKE3	8300110700010S	1		
	23	nsp	BATTERY,DRY (AAA)	AVR1909BKE3	G670001R50210S	2		
	24	nsp	CARD GUARANTEE	JP	5777001470075S	1		
	25	nsp	CLIP		6250040020010S	4		
	26	nsp	WARRANTY CARD	JP	5727001130021S	1		
	27	nsp	CARD SVC STATION LIST	JP	5777200040019S	1		
	28	nsp	LABEL LICENSE	E3	5507000001800S	1		
	28	nsp	LABEL LICENSE	E2, EA	5507000001820S	1		
	28	nsp	LABEL LICENSE	JP	5507000001810S	1		
	29	00D9630198309	BUSHING TERMINAL	E2, EA	2410040353010S	18		
	30	963543001940D	QUICK MANUAL	E3	5227000000640S	1		
	30	963543002090D	QUICK MANUAL	JP	5227000000680S	1		
	★ 31	nsp	LABEL POP	E3, E2	5507000002210S	1		
	★ 32	nsp	LABEL SERIAL NO.		5507002000070S	1		
	★ 33	963545002080D	POS LABEL	AVC1909SPJP	-	1		
	★ 33	998545000190D	POS LABEL	AVC1909BKJP	-	1		3

NOTE FOR SCHEMATIC DIAGRAM

WARNING:
Parts marked with this symbol ⚠ have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

NOTICE:
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM
M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD.
P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

配線図について

⚠ 印の部品は安全を維持するために重要な部品です。
従って交換時は必ず指定の部品を使用してください。

注）
(1) 指定なき抵抗値は Ω、k は kΩ、M は MΩ を示す。
(2) 指定なきコンデンサーの値は μF、p は pF を示す。
(3) 各部の電圧は無信号の値を示す。
(4) この配線図は基本配線図です。改良等のため変更することがありますのでご了承ください。

CAUTION:For continued safety,replace critical components only with manufacturers recomended parts (refer to parts list)

⚠ indicates safety critical components. To reduce the risk of electric shock, leakagecurrent or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance returned to the customer.

MAIN (1/2)

CB 2/5_O2

CB 2/5_O7

1709_2CH 13/14_C6
1909_2CH 3/17_B5

1709_2CH 13/14_C3
1909_2CH 3/17_B2

CB 3/5_D4

CB 3/5_D5

CB 3/5_D6

FROM TRANS

1709_SUPPLY 12/14_C5
1909_SUPPLY 2/17_J5

1709_FRONT 1/14_L10
1909_FRONT 1/17_K10

CB 2/5_L1

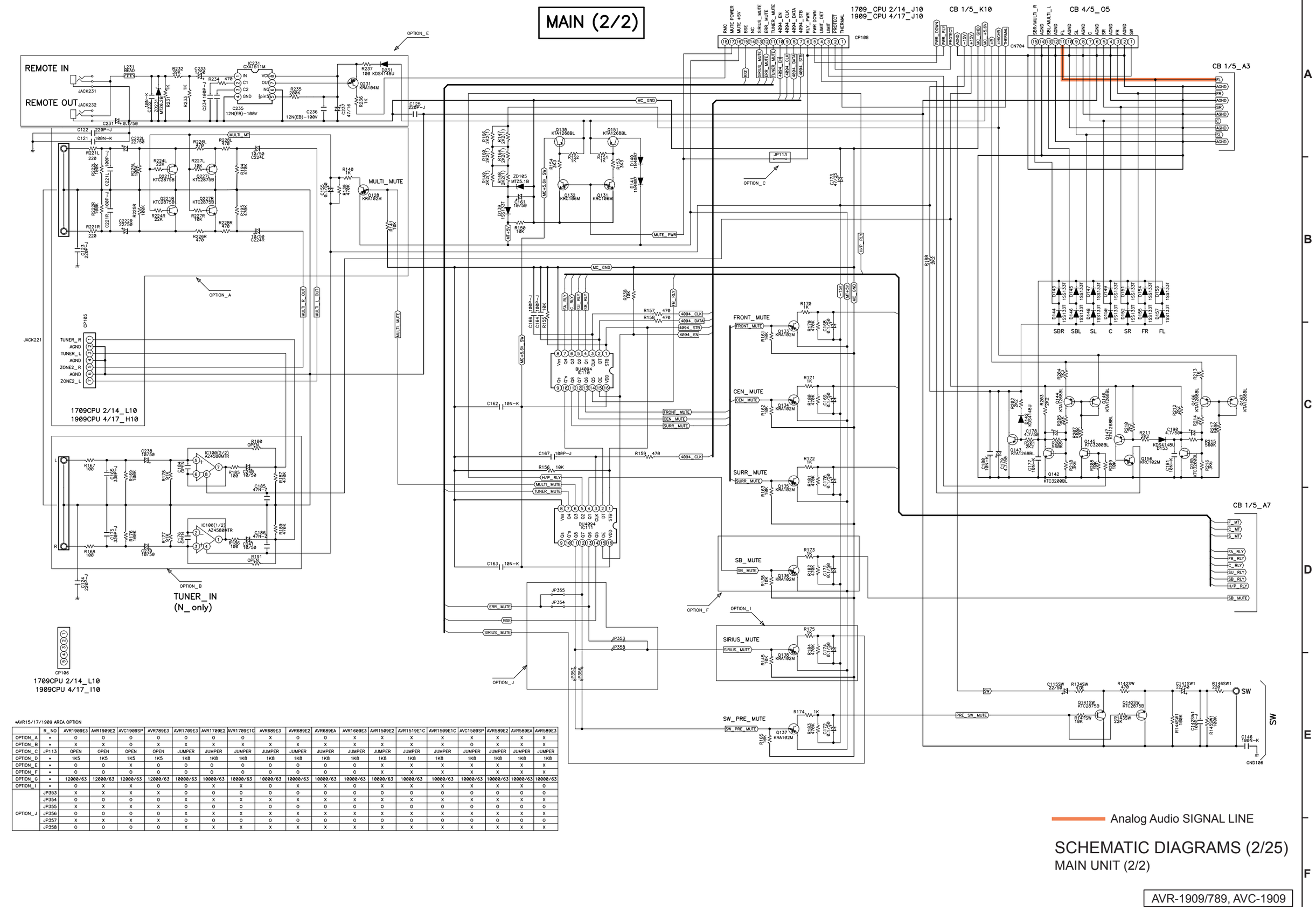
Analog Audio SIGNAL LINE

SCHEMATIC DIAGRAMS (1/25)

MAIN UNIT (1/2)

AVR-1909/789, AVC-1909

MAIN (2/2)



*AVR15/17/1909 AREA OPTION

	R_NO	AVR1909E3	AVR1909E2	AVC1909SP	AVR789E3	AVR1709E3	AVR1709E2	AVR1709E1C	AVR689E3	AVR689E2	AVR689EA	AVR1609E3	AVR1509E2	AVR1519E1C	AVR1509E1C	AVC1509SP	AVR589E2	AVR589EA	AVR589E3
OPTION_A	•	0	0	0	0	0	0	0	X	0	0	X	X	X	X	X	X	X	X
OPTION_B	•	X	X	0	X	X	X	X	X	X	X	X	X	X	X	0	X	X	X
OPTION_C	JP113	OPEN	OPEN	OPEN	OPEN	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER
OPTION_D	•	1K5	1K5	1K5	1K5	1K8	1K8	1K8	1K8	1K8	1K8	1K8	1K8	1K8	1K8	1K8	1K8	1K8	1K8
OPTION_E	•	0	0	X	0	0	0	0	0	0	0	0	X	X	X	X	X	X	X
OPTION_F	•	0	0	0	0	0	0	0	0	0	0	0	X	X	X	X	X	X	X
OPTION_G	•	12000/63	12000/63	12000/63	12000/63	10000/63	10000/63	10000/63	10000/63	10000/63	10000/63	10000/63	10000/63	10000/63	10000/63	10000/63	10000/63	10000/63	10000/63
OPTION_I	•	0	X	X	0	0	X	X	0	X	X	0	X	X	X	X	X	X	0
OPTION_J	JP353	X	X	X	X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	JP354	0	0	0	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	JP355	X	X	X	X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	JP356	0	0	0	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	JP357	X	X	X	X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	JP358	0	0	0	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Analog Audio SIGNAL LINE

SCHEMATIC DIAGRAMS (2/25)

MAIN UNIT (2/2)

AVR-1909/789, AVC-1909

INPUT BOARD

AUDIO IN
AUX
CD
CDR/TAPE
VCR
TV/DBS
DVD/VDP
AUDIO OUT
VCR OUT
CDR/TAPE OUT
8CH-EXT
SBR

CN708
IC700
R2A15215FP
IC706(2/2) AZ4580MTR
IC707(2/2) AZ4580MTR
IC706(1/2) AZ4580MTR
IC707(1/2) AZ4580MTR
Q700 2SK117Y
Q701 2SK117Y
D700 KDS4148U
D701 KDS4148U
Q702 KRA102S
Q703 KRC104S
D700 MTZ7.5A
D701 MTZ7.5A

FL
FR
SW
C
SL
SR
SBL
SBR

CP704
CB 1/5_ M1
1709_2CH 13/14_C5
1909_2CH 3/17_B4
CP705
CN515
CN514
1709_SUPPLY 12/14_C3
1909_SUPPLY 2/17_I3

R791 :15/17 JUMPER, 1909 OPEN
R807 :15/17 OPEN, 1909 JUMPER

Analog Audio SIGNAL LINE

CN704
1709_CPU 2/14_C10
1909_CPU 4/17_B1
1909_CPU 4/17_D10
CN702
1709_CPU 2/14_E10
CN306
1709_FRONT 1/14_D10
1909_FRONT 1/17_D10
CN703
1709_CPU 2/14_G10
1909_CPU 4/17_F10
CP708
1709_VIDEO 8/14_G9
1509_VIDEO 10/14_G9
1909_VIDEO 6/17_07

SCHEMATIC DIAGRAMS (3/25)

INPUT UNIT

AVR-1909/789, AVC-1909

CPU B`D(1/2)

MCPU PART

HDMI 15/17_O3

HDMI 16/17_G10

HDMI 17/17_K10

HDMI 14/17_E1

CPU 5/17_H2

FRONT 1/17_A7

INPUT CB 4/5_E10

VIDEO 6/17_C1

SIRIUS CB 5/5_K4

INPUT CB 4/5_K10

INPUT CB 4/5_L10

MAIN CB 1/5_A5

MAIN CB 1/5_A6

MAIN CB 1/5_I1

UP GRADE

UP GRADE

TUNER PACK

RDS ONLY

OPTION_A

OPTION_B

OPTION_C

OPTION_D

OPTION_F

OPTION_G

*AREA TABLE

		1909BKE3	789BKE3	AVC1909	789EA	1909 E2
OPTION_A	R865	X	JUMPER	20K	10K	10K
	R862	JUMPER	X	10K	10K	20K
OPTION_B		X	X	X	X	0
OPTION_C	R863	10K	10K	10K	10K	X
OPTION_D		O	O	X	X	X
OPTION_F		O	O	X	O	O
OPTION_G		X	X	O	X	X

SCHEMATIC DIAGRAMS (4/25)

CPU UNIT (1/2)

MCPU PART

AVR-1909/789, AVC-1909

CPU B`D(2/2)

DIGITAL IN PART

CPU 4/17_H2

OPTICAL OUT

OPTICAL IN

COAXIAL IN

IPOD

OPT2

OPT1

COAX2

COAX1

IC803 SN74AHCU04PWR

IC804 SN74LV14APWR

IC805 SN74AHCT08

Opt Audio SIGNAL LINE

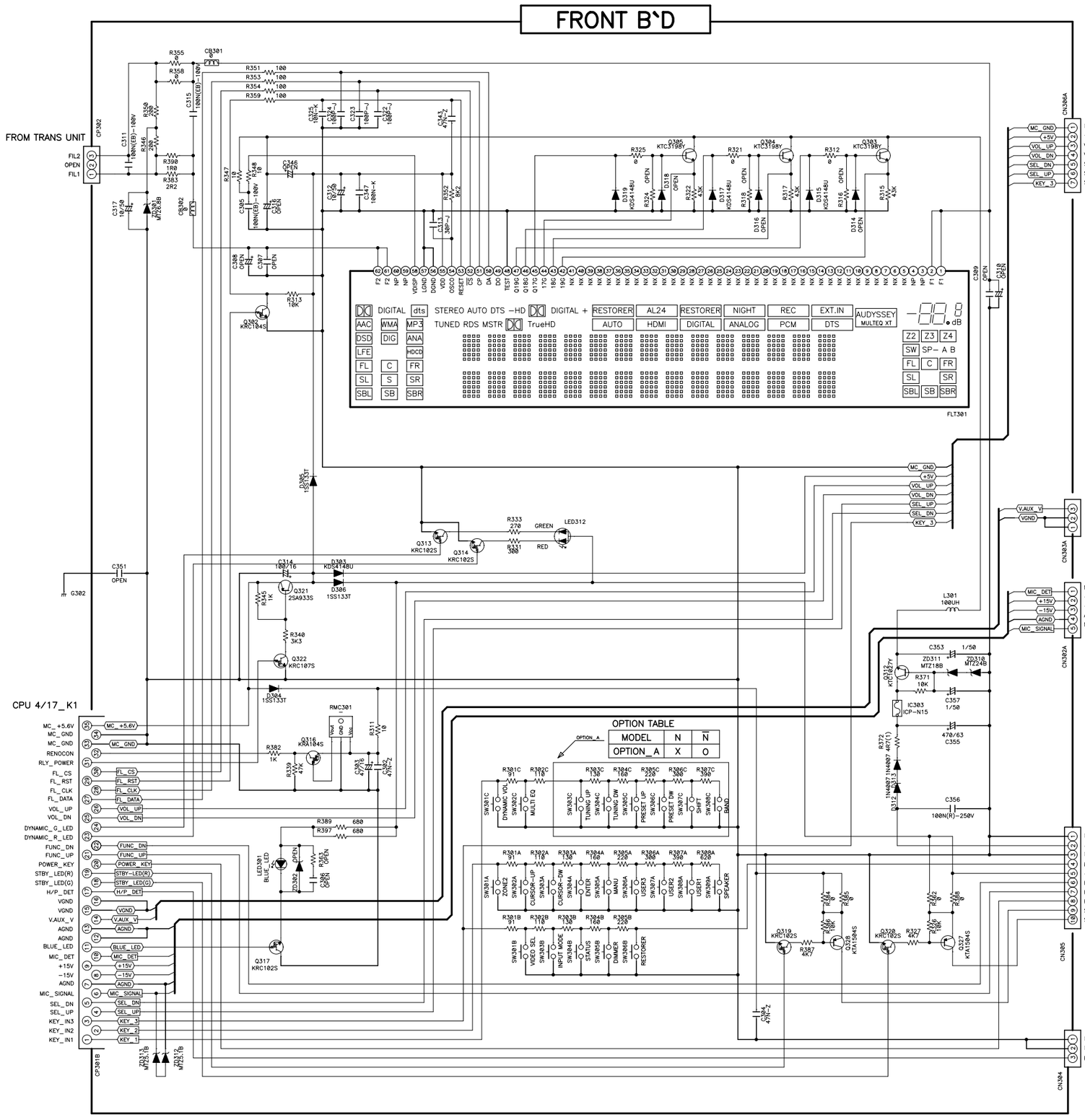
SCHEMATIC DIAGRAMS (5/25)

CPU UNIT (2/2)

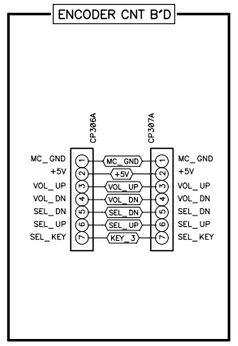
DIGITAL IN PART

AVR-1909/789, AVC-1909

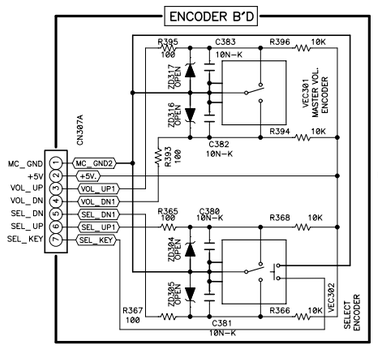
FRONT B`D



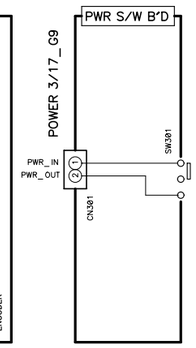
ENCODER CNT B`D



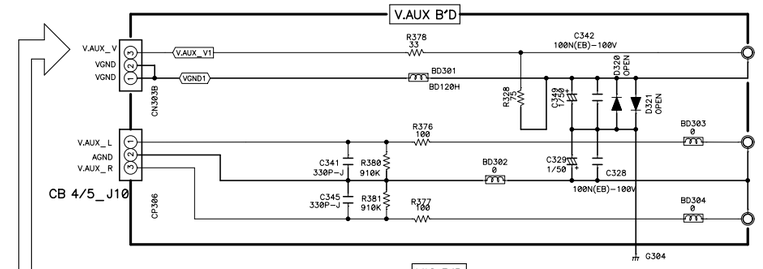
ENCODER B`D



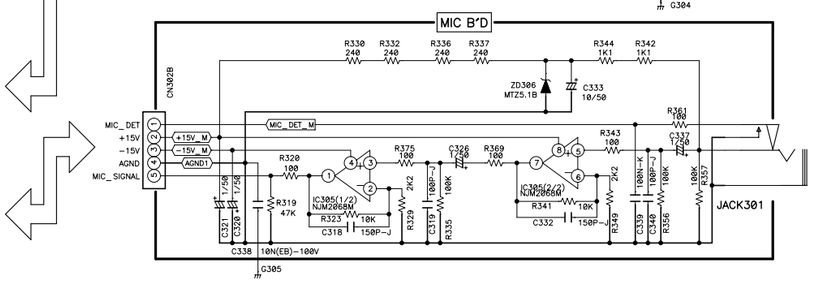
PWR S/W B`D



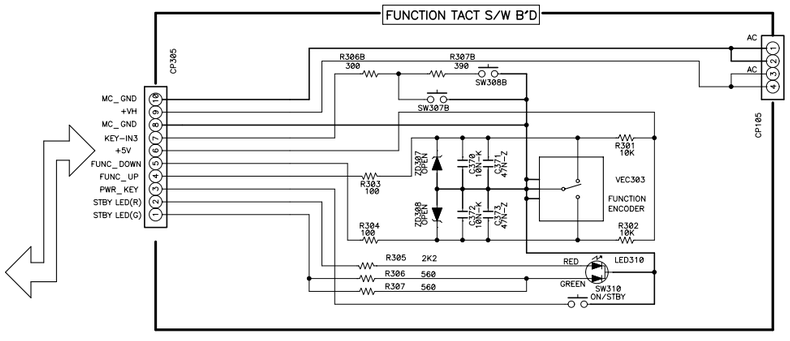
V.AUX B`D



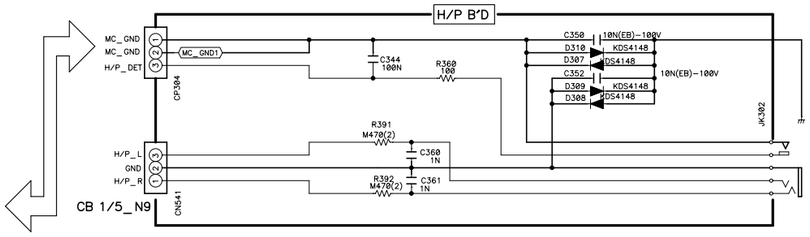
MIC B`D



FUNCTION TACT S/W B`D



H/P B`D



SCHEMATIC DIAGRAMS (6/25)

FRONT UNIT	FUNCTION TACT S/W UNIT
V.AUX UNIT	ENCODER CNT UNIT
MIC UNIT	ENCODER UNIT
H/P UNIT	PWR S/W UNIT

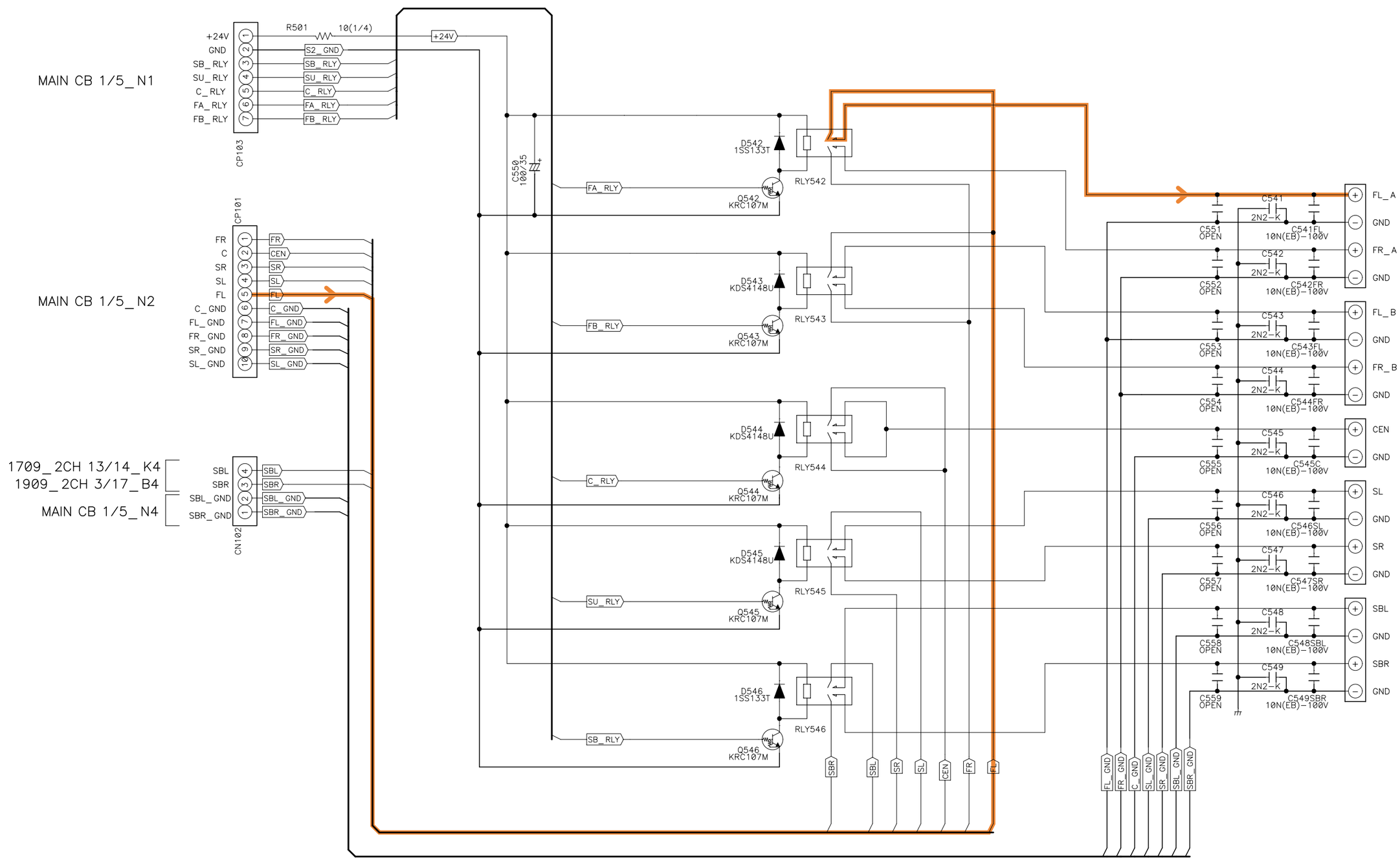
AVR-1909/789, AVC-1909

SPK B'D

MAIN CB 1/5_N1

MAIN CB 1/5_N2

1709_2CH 13/14_K4
1909_2CH 3/17_B4
MAIN CB 1/5_N4

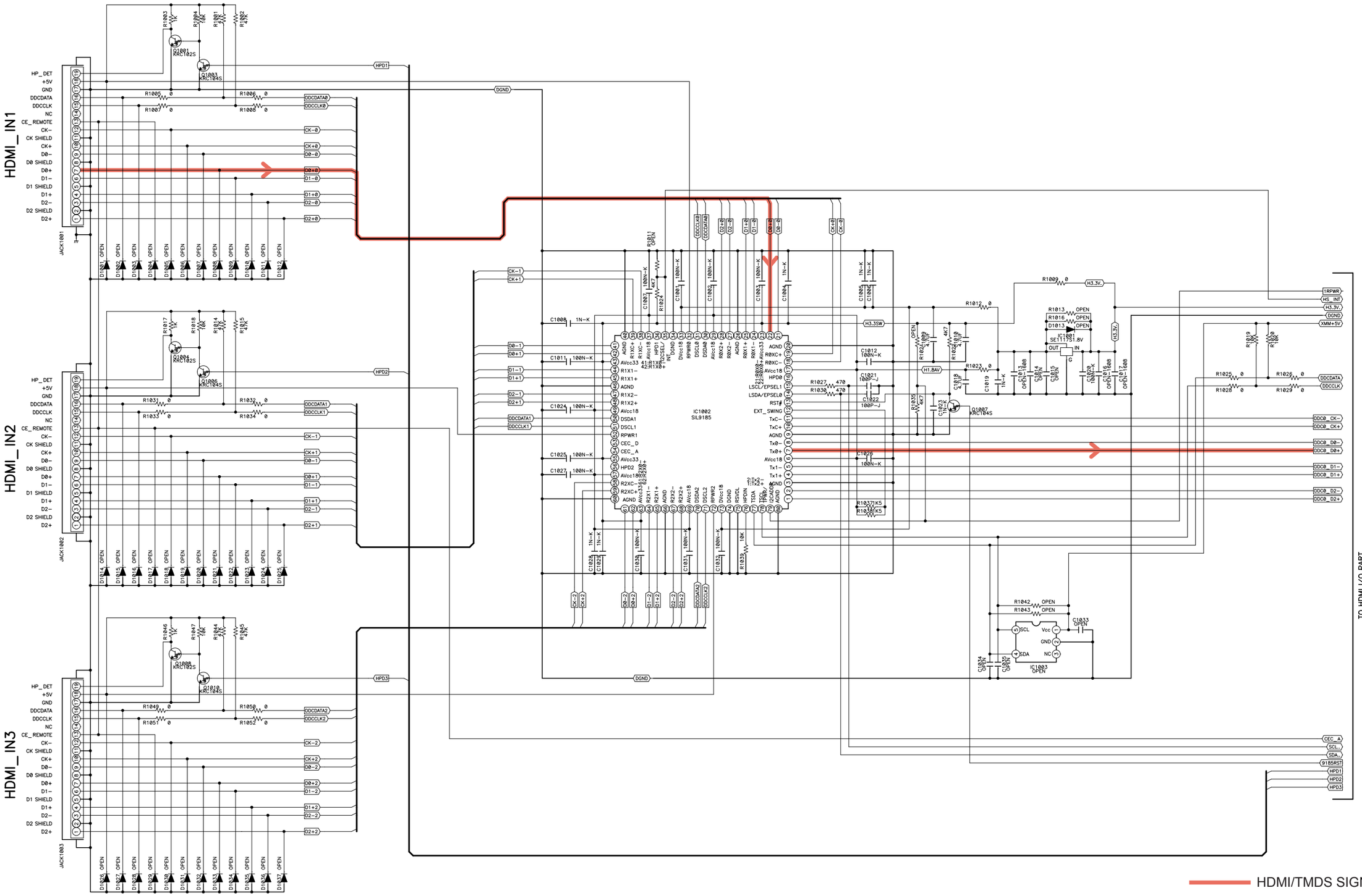


Analog Audio SIGNAL LINE

SCHEMATIC DIAGRAMS (7/25)

SPK UNIT

AVR-1909/789, AVC-1909



SCHEMATIC DIAGRAMS (8/25)

HDMI UNIT (1/10)

HDMI INPUT SELECT

AVR-1909/789, AVC-1909

(A5)
TO VIDEO PLD PART

TO SCPU PART
(A2)

(07)
TO INPUT SELECT PART

(08)
TO DIR/CODEC/APLD PART

IC1008
SIL9135

IC1009
SIL9134

IC1004
UPC2918

IC1005
UPC2918

IC1006
OPEN

IC1007
UPC2918

Q1047
KRA104S

Q1046
KRC104S

Q1012
KRC104S

Q1011
KRC104S

D1038 OPEN

D1040
OPEN

D1041
KDS4148U

X1001
FCX-03(28.322MHZ)

JACK1004
HDMI_ OUT

TX2+
TX2 SHIELD
TX2−
TX1+
TX1 SHIELD
TX1−
TX0+
TX0 SHIELD
TX0−
TXC+
TXC SHIELD
TXC−
CE_ REMOTE
NC
DDC_ SCK
DDC_ SDA
GND
+5V
HP_ DET

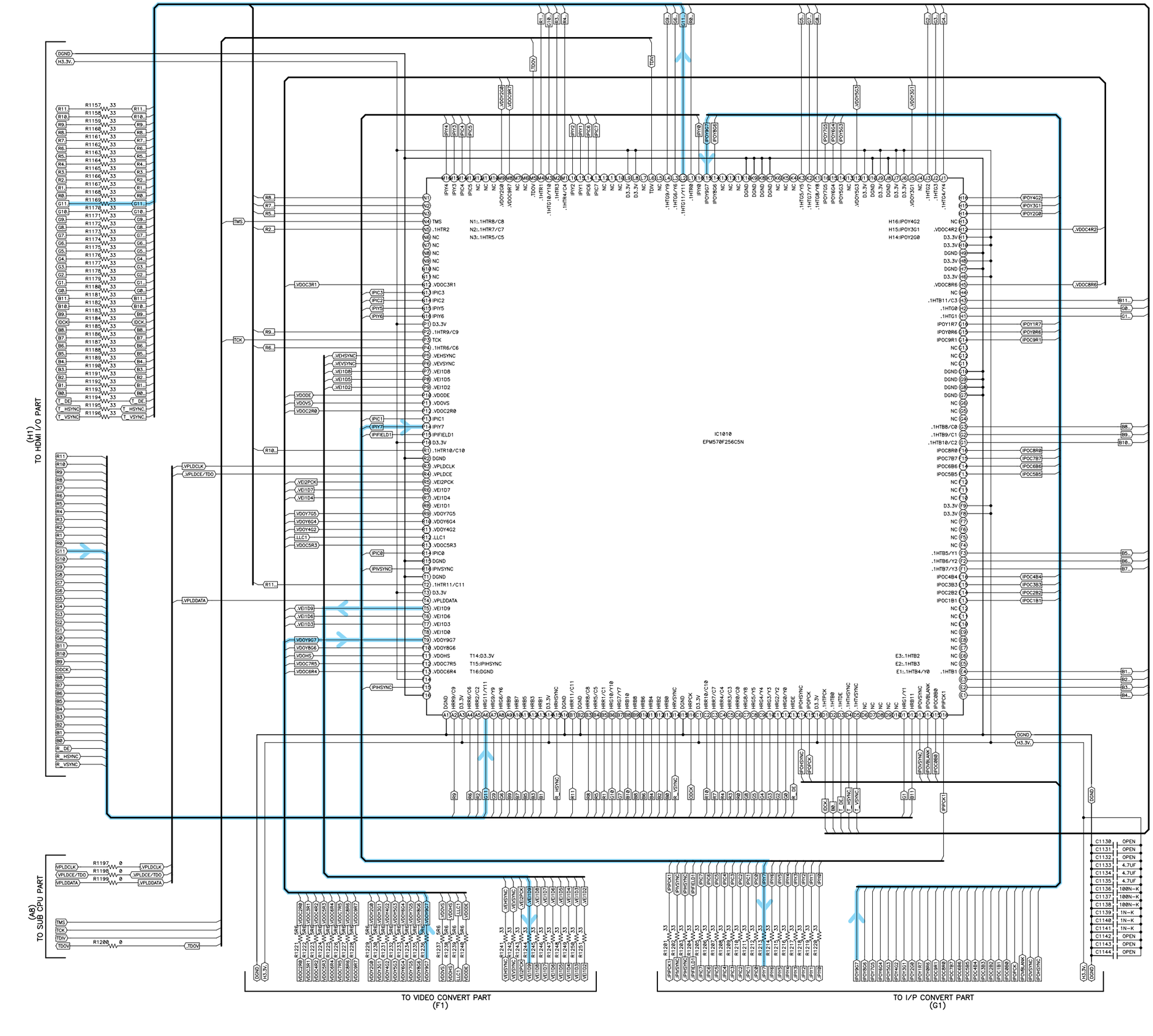
HDMI/TMDS SIGNAL LINE
Digital Audio SIGNAL LINE
Digital Video SIGNAL LINE

SCHEMATIC DIAGRAMS (9/25)

HDMI UNIT (2/10)

HDMI I/O

AVR-1909/789, AVC-1909



Digital Video SIGNAL LINE

SCHEMATIC DIAGRAMS (10/25)

HDMI UNIT (3/10)
VIDEO PLD

AVR-1909/789, AVC-1909

(A10)
TO SCPU PART

(J10)
TO VIDEO PLD PART

IC1011
FLI2310-LF-CF

IC1014
GLT5640L32-6

1:HS1P1
2:VS1P1

156:OE
155:G/Y/YOUT7
154:G/Y/YOUT6
153:G/Y/YOUT5

107:SDBA1
106:SDCASN
105:SDRASN

50:SDDATA0
51:SDDATA1
52:SDDATA2

Digital Video SIGNAL LINE

SCHEMATIC DIAGRAMS (11/25)

HDMI UNIT (4/10)
I/P CONVERT

AVR-1909/789, AVC-1909

(B10)
TO SCPU PART

(E10)
TO VIDEO PLD PART

IC1020
ADV7401BSTZ-110
VIDEO DECODER

IC1019
ADV7172
VIDEO ENCODER

IC1018
BH7868FS

[LUMA]
[C]
[Y]
[Cb]
[Cr]

TO VIDEO CNT B`D
7/17(A10)

TO VIDEO CNT B`D
6/17(A7)

Digital Video SIGNAL LINE
Video SIGNAL LINE
S-Video-Y SIGNAL LINE
Component-Y SIGNAL LINE

SCHEMATIC DIAGRAMS (12/25)

HDMI UNIT (5/10)
VIDEO CONVERT

AVR-1909/789, AVC-1909

DSP HDMI B`D(6/10)

(E10)
TO SCPU PART

DSPROMRST
DSPRST
DSPCLK
DSPMOSI
DSPMISO
DSPCS
DSPMISO
FLAG0
FLAG1

IC1022
W9864G2GH-6

IC1024
ADSP21367
(333MHz)

JTAG CONTROL JACK
TP1001
TCK
GND
TDO
VCC
TMS
TRST
EMU0
EMU1
TDI
GND
NC

X1004
FCX-03(28.8125MHz)

IC1048
EN5311
(EN5311QI)

TO DIR/CODEC/APLD PART
(J1)

Digital Audio SIGNAL LINE
Digital Audio SIGNAL LINE

SCHEMATIC DIAGRAMS (13/25)
HDMI UNIT (6/10)
DSP

AVR-1909/789, AVC-1909

DIR/CODEC/APLD **HDMI B`D(7/10)**

(G1) TO CPU B`D

(H10) TO DSP PART

(A5) TO SUB CPU PART

TO DAC OUTPUT PART (A6)

TO HDMI I/O PART (A10)

TEST JIG

IC1027 LC89057

IC1026 ADAU1328

IC1029 EPM3032A-TC4410

IC1028 SN74LVC244APW

IC1025 SE1117A3.3V

Analog Audio SIGNAL LINE

Opt Audio SIGNAL LINE

Digital Audio SIGNAL LINE

Digital Audio SIGNAL LINE

Digital Audio SIGNAL LINE

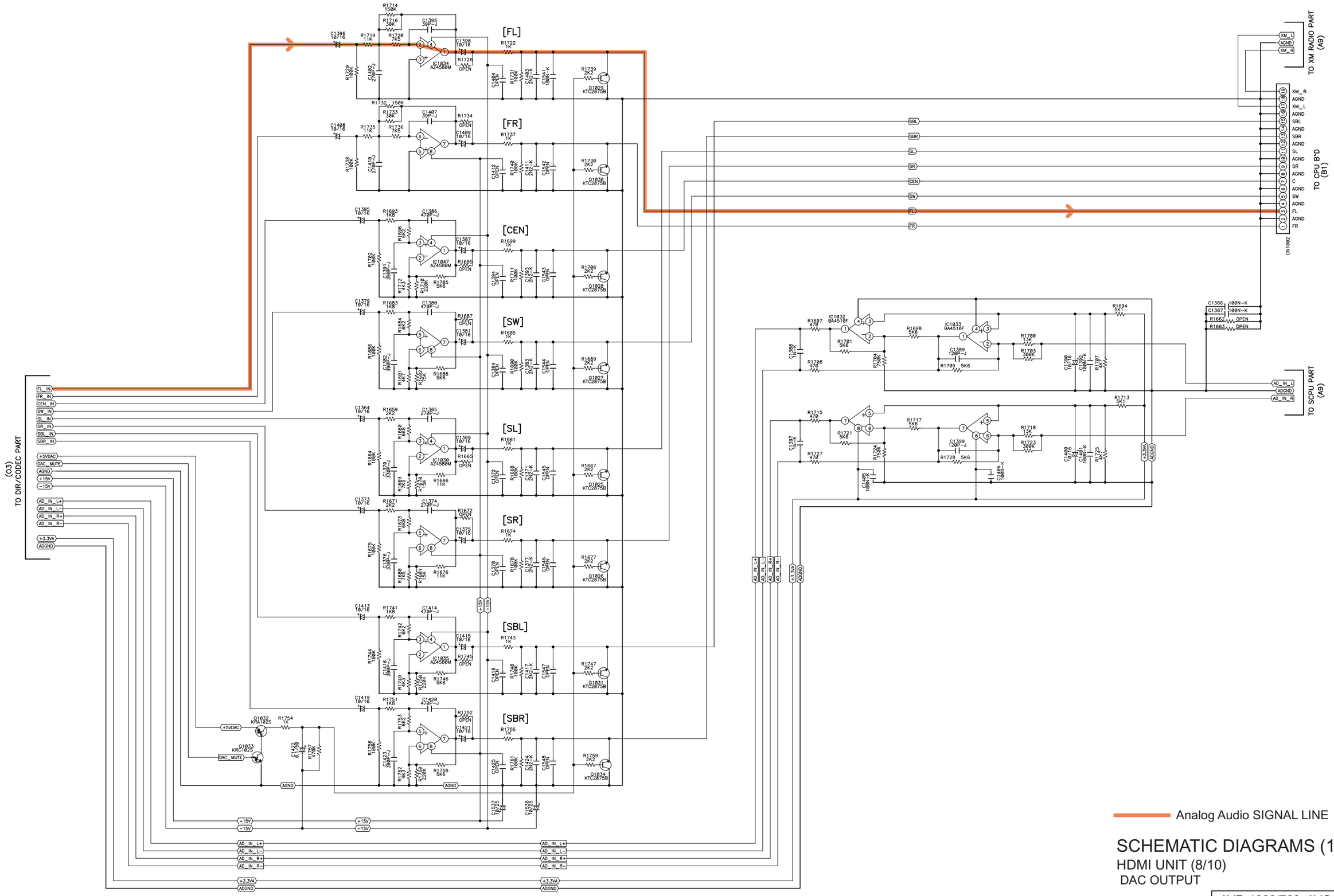
SCHEMATIC DIAGRAMS (14/25)

HDMI UNIT (7/10)

DIR/CODEC/APLD

AVR-1909/789, AVC-1909

DAC OUTPUT **HDMI B`D(8/10)**



Analog Audio SIGNAL LINE

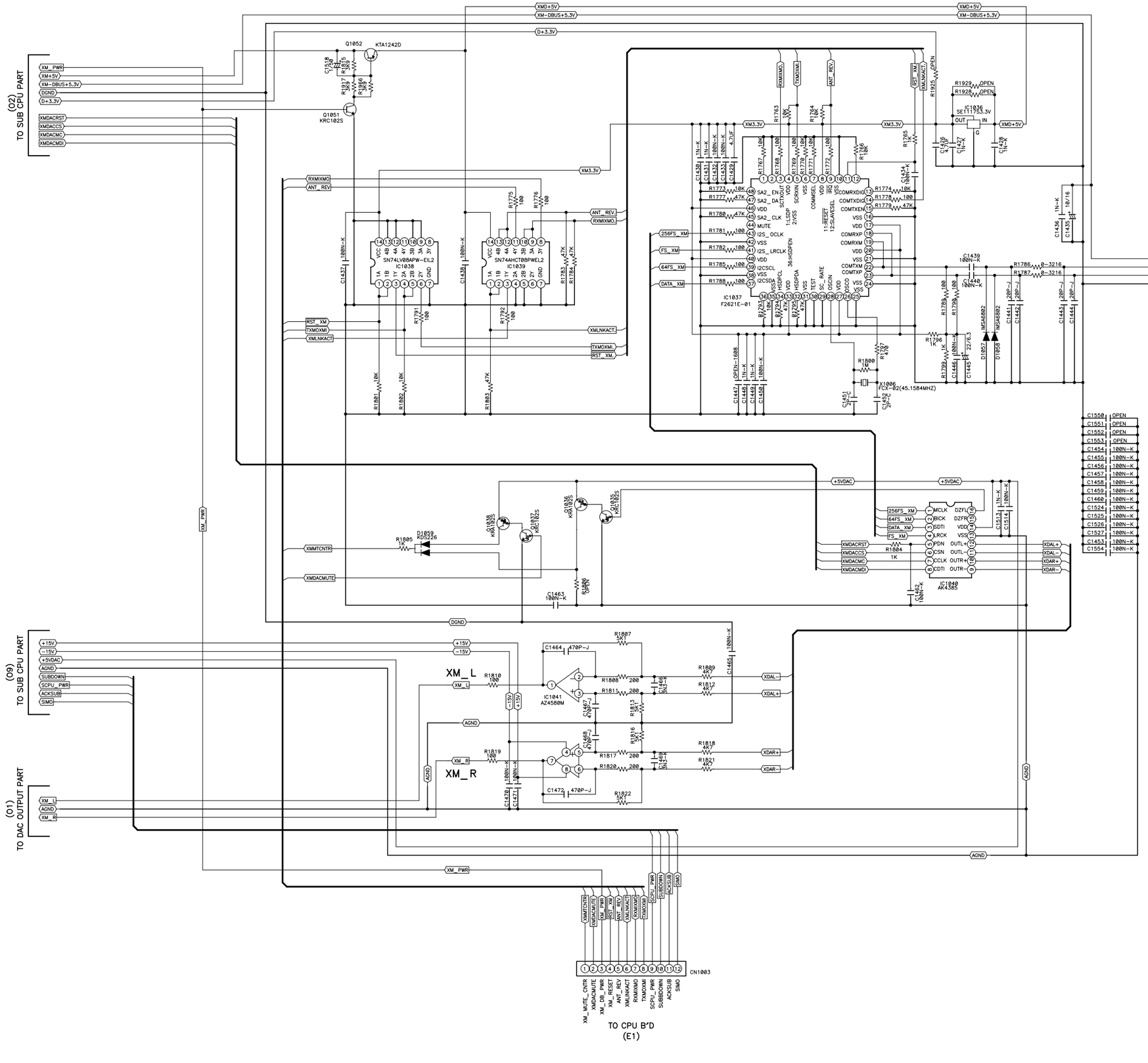
SCHEMATIC DIAGRAMS (15/25)

HDMI UNIT (8/10)

DAC OUTPUT

AVR-1909/789, AVC-1909

XM RADIO (E3 ONLY) **HDMI B`D(9/10)**



SCHEMATIC DIAGRAMS (16/25)

HDMI UNIT (9/10)

XM RADIO (E3 model only)

AVR-1909/789, AVC-1909

SUB CPU HDMI B`D(10/10)

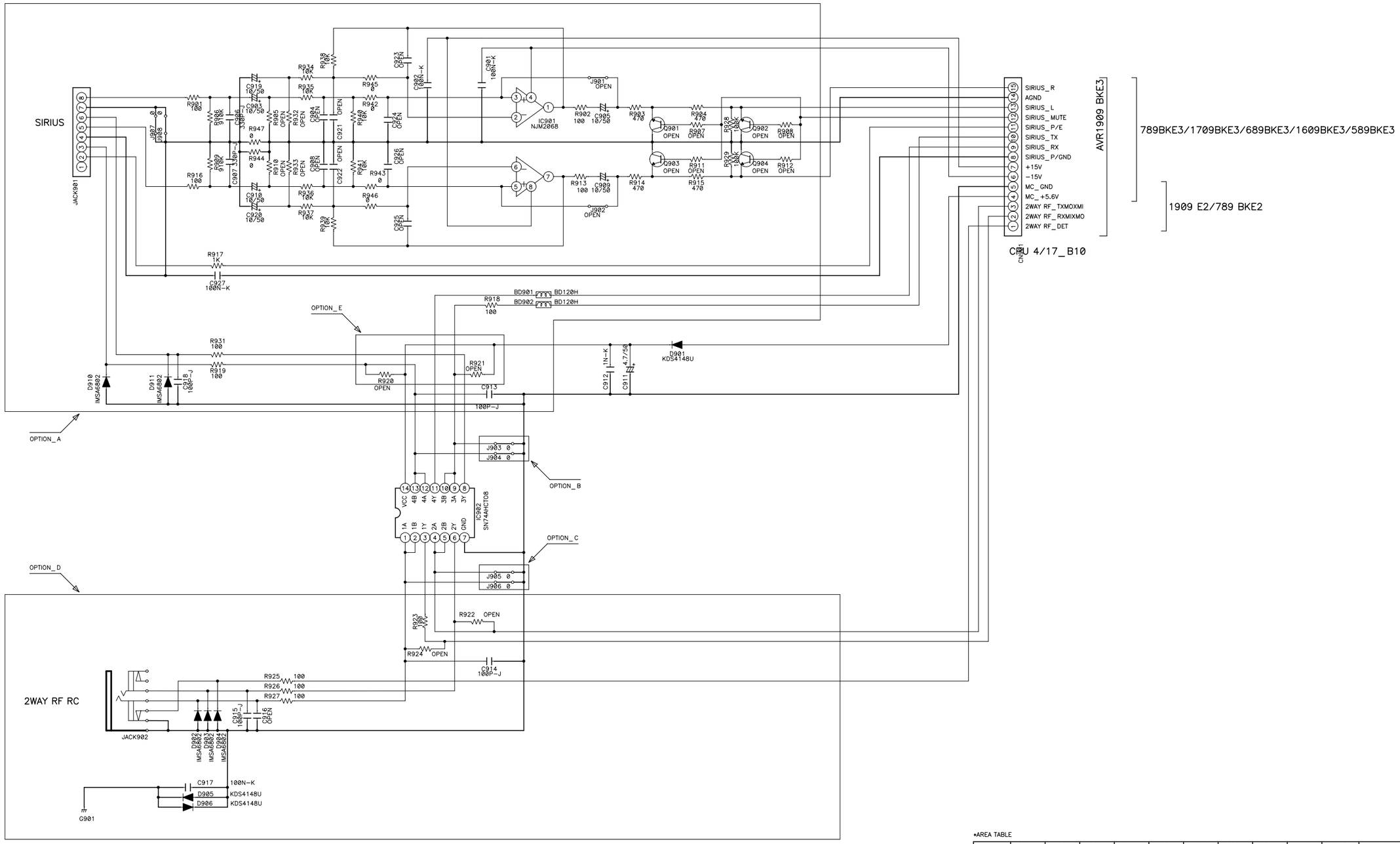
SCHEMATIC DIAGRAMS (17/25)

HDMI UNIT (10/10)

SUB CPU

AVR-1909/789, AVC-1909

SIRIUS/2WAY RF B'D



*AREA TABLE

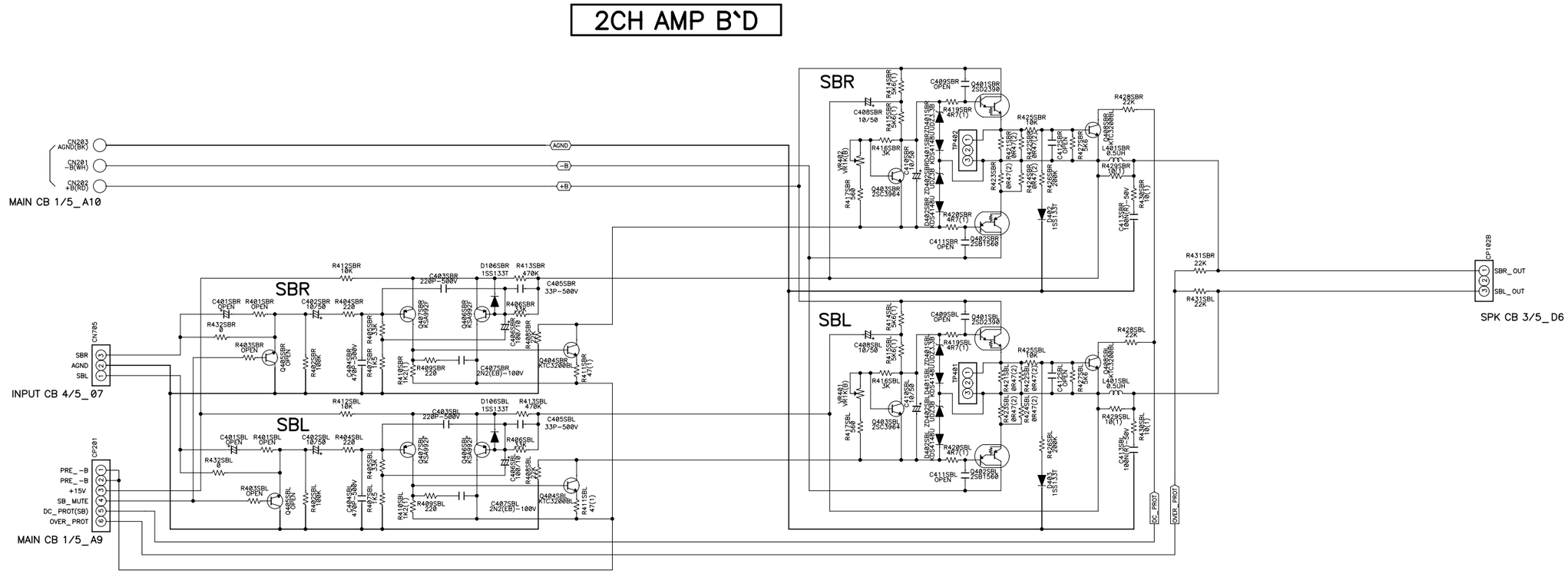
	1909BKE3	789BKE3	1909 E2	789BKE2	1909 N	1709BKE3	689BKE3	1609BKE3	589BKE3	15/1709E2	589/689BKE2	1509/1519E1C	1509 N
OPTION_A	O	O	X	X	X	O	O	O	O	X	X	X	X
OPTION_B	X	X	O	O	X	X	X	X	X	X	X	X	X
OPTION_C	X	O	X	X	X	O	O	O	O	X	X	X	X
OPTION_D	O	X	O	O	X	X	X	X	X	X	X	X	X
OPTION_E	O	O	O	O	O	O	O	O	O	O	O	O	O

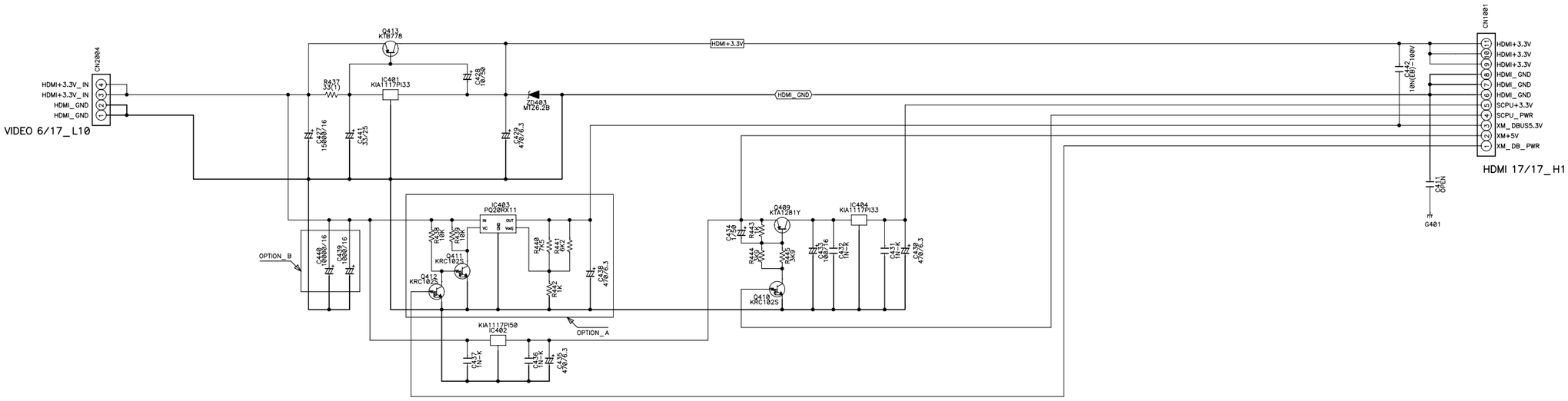
SCHEMATIC DIAGRAMS (18/25)

SIRIUS/2WAY RF UNIT

AVR-1909/789, AVC-1909

2CH AMP B`D





*AREA OPTION

	E3/887	E2	EUT	E1C
OPTION_A	O	X	X	X
OPTION_B	C440	C439	C439	C439

SCHEMATIC DIAGRAMS (19/25)

2CH AMP UNIT

AVR-1909/789, AVC-1909

S/C VIDEO PART **VIDEO B`D (1/2)**

(A6)
TO CPU B`D

(N10)
TO INPUT B`D

CN2001 — V.AUX IN, VGND, AUDIO_+5V, MC_+5V, MC_+5.6V, MC GND, OSD_DATA, OSD_CLK, OSD_CS, SYNCDET, A_OSDMUTE

CN2005 — VIDEO PWR, MC_+5.6V, MC_GND, AUDIO_+5V, VGND, VIDEO_-5V, VIDEO_+5V, VIDEO_+9V

IN
DVD/VDP
TV/DBS
VCR
JACK2001

OUT
MONITOR
VCR
JACK2002

MONITOR
REC OUT

IC2002 TC4051BF
IC2003 TC4051BF
IC2004 TC4051BF
IC2009 TC4051BF
IC2010 TC4051BF
IC2011 TC4051BF

IC2001 TK15420
IC2005 TK15420
IC2008 TK15420
IC2012 TK15420
IC2013 TK15420
IC2018 TK15428

IC2006 TC4053BF
IC2007 MM74HC4053SJ
IC2014 TC4052BF
IC2015 TC4052BF
IC2019 BU4094

IC2016 LA73053
IC2017 LC74782M

D2001 KDS4148U
D2002 KDS4148U
D2003 KDS4148U
D2004 KDS4148U
Q2001 KRC102S
Q2002 KRC102S
Q2003 KRC102S
Q2004 KRC102S
Q2005 KTA1504S
Q2006 KTA1504S
Q2009 KTA1504S

BD2001 0
BD2002 0
BD2003 BEAD

X2001 20P-J 20P-J 20MHz

Y/C MIX

OSD_Y
OSD_V

CP2002 — VIDEO PWR, VIDEO_+5V, VGND, VGND, P.SAVE, MONDIS, COMP_DET, V_DET, S_DET, VCRINH, SMONI_DET, SYNCDET_S, V.EXPSTB, V.EXPOE, V.EXPCLK, V.EXPDIN, SMONIB, SMONIA
TO VIDEO CNT B`D (G6)

CP2003 — VEO_Y, VGND, VEO_C, VGND, VEO_V, VGND, VDISY, VGND, VDISC, VGND, VDIV
TO VIDEO CNT B`D (G7)

VIDEO 7/17_06 — AB_OSDY, C_OSDV, B_OSDV/Y, COMP_DET, MONDIS, P.SAVE, V+9V, V+5V, V-5V, VGND

Video SIGNAL LINE
S-Video-Y SIGNAL LINE

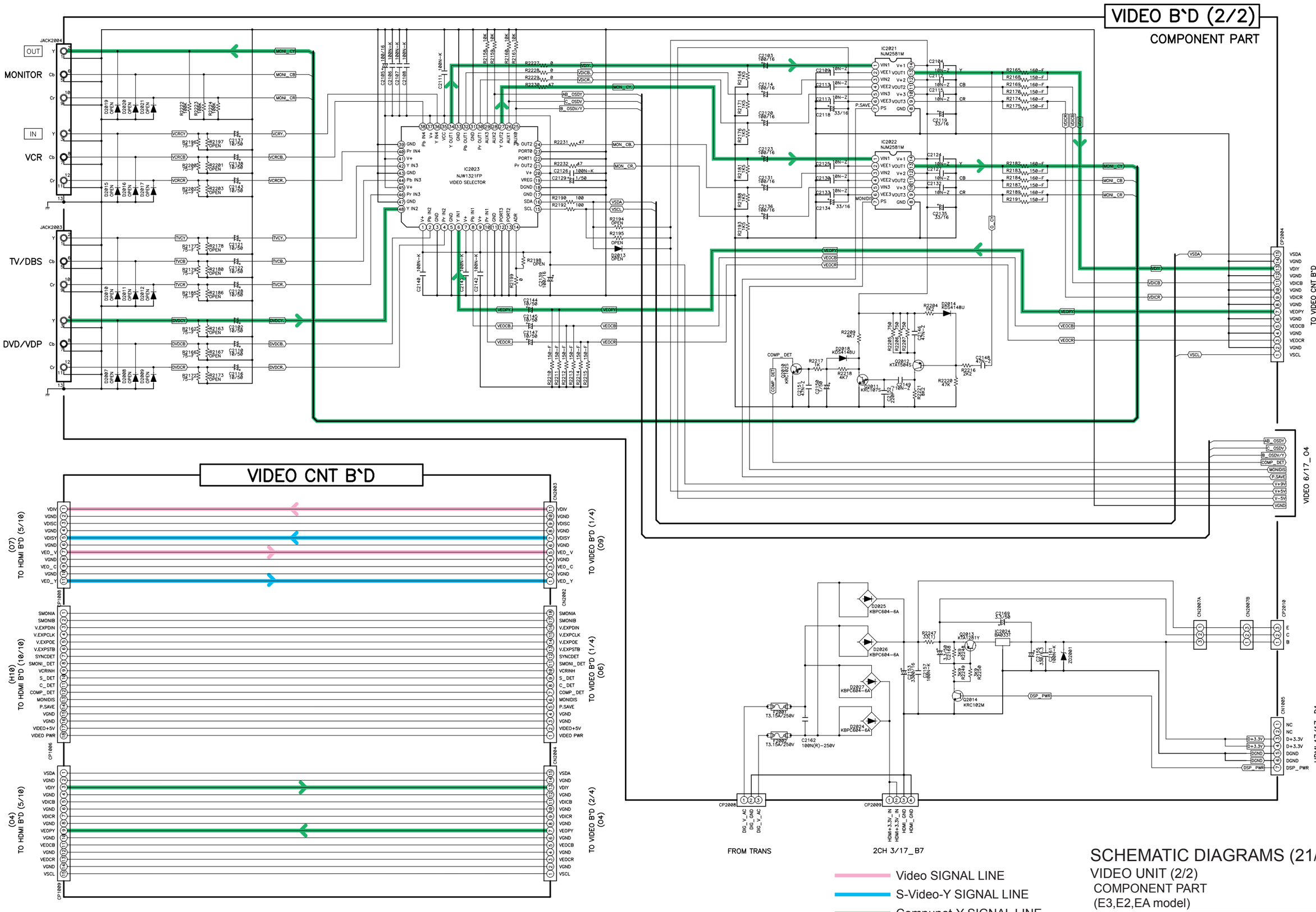
SCHEMATIC DIAGRAMS (20/25)
VIDEO UNIT (1/2)
S/C VIDEO PART

AVR-1909/789, AVC-1909

VIDEO B`D (2/2)

COMPONENT PART

VIDEO CNT B`D



Video SIGNAL LINE

S-Video-Y SIGNAL LINE

Compunet-Y SIGNAL LINE

SCHEMATIC DIAGRAMS (21/25)

VIDEO UNIT (2/2)
COMPONENT PART
(E3,E2,EA model)

AVR-1909/789, AVC-1909

S/C VIDEO PART **DVIDEO B`D (1/3)**

(A6)
TO CPU B`D

(N10)
TO INPUT B`D

IN

DVD/VDP

TV/DBS

VCR

OUT

MONITOR

VCR

MONITOR

REC OUT

JAPAN ONLY

TO D_VIDEO PART (07)

TO D-TERMINAL (06)

TO VIDEO CNT B`D (G8)

TO VIDEO CNT B`D (G7)

Y/C MIX

JAPAN ONLY

Video SIGNAL LINE

S-Video-Y SIGNAL LINE

SCHEMATIC DIAGRAMS (22/25)

D VIDEO UNIT (1/3)

S/C VIDEO PART

AVR-1909/789, AVC-1909

DVIDEO B`D (2/3)

D-TERMINAL PART

D-TERMINAL1 B`D

D-TERMINAL2 B`D

VIDEO_1 — JACK2301 — CN2301 — CP2301

VIDEO_2 — JACK2302 — CN2304

VIDEO_3 — JACK2303 — CN2303 — CP2302

MONITOR — JACK2304

IC2023 NJW1321FP VIDEO SELECTOR

IC2021 NJM2581M

IC2022 NJM2581M

IC2026 BU4052BCFV

IC2027 BU4052BCFV

CP2004 — TO VIDEO CNT B`D (G10)

CP2010 — TO SC VIDEO PART (04)

CN2007A / CN2007B — HDMI 17/17_D1

JAPAN ONLY — TO SC VIDEO PART (02)

CP2008 — FROM TRANS

CP2009 — 2CH 3/17_B7

Compunet-Y SIGNAL LINE

SCHEMATIC DIAGRAMS (23/25)

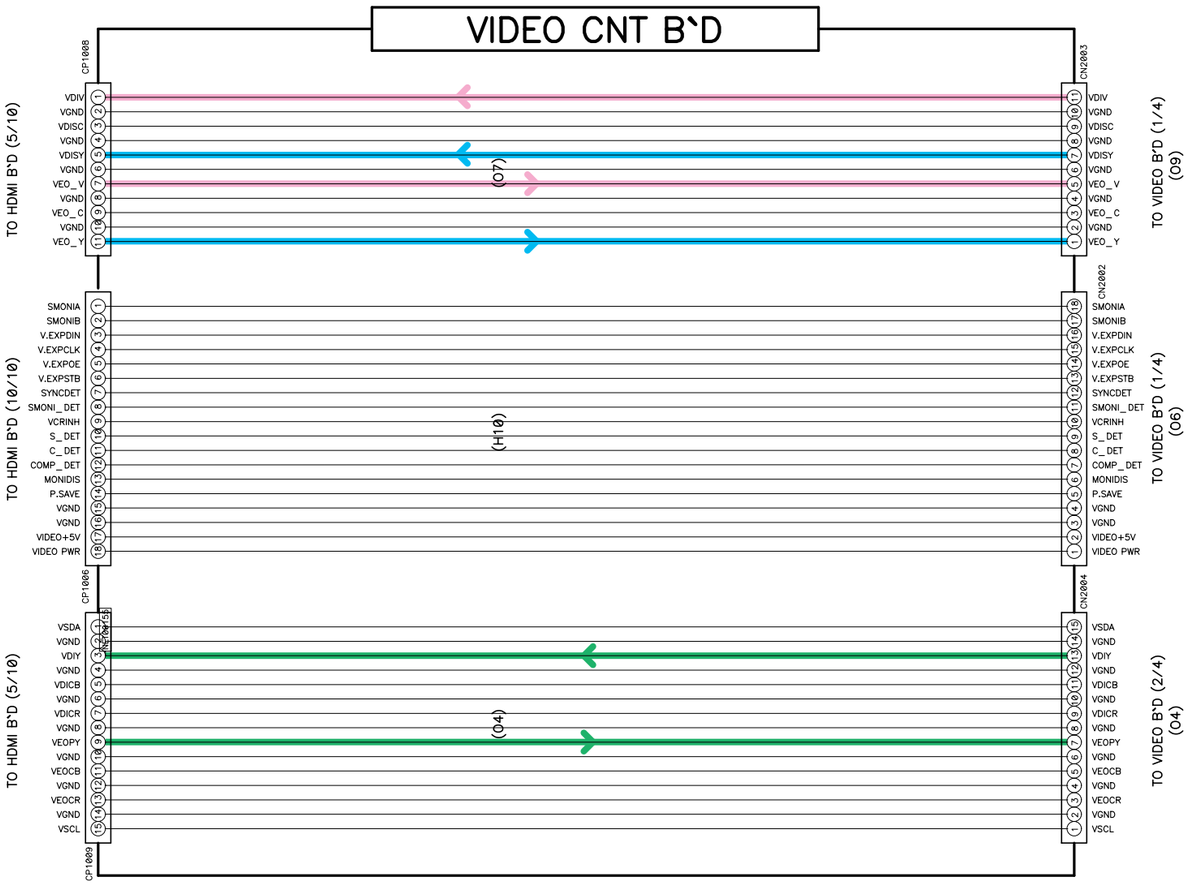
D VIDEO UNIT (2/3) D-TERMINAL1 UNIT

D-TERMINAL PART D-TERMINAL2 UNIT

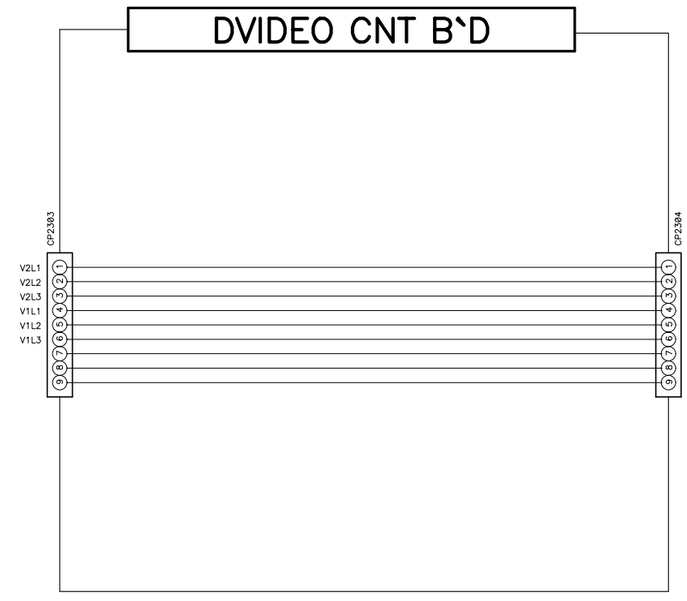
(JP model only)

AVR-1909/789, AVC-1909

VIDEO CNT B`D



DVIDEO CNT B`D



Video SIGNAL LINE

S-Video-Y SIGNAL LINE

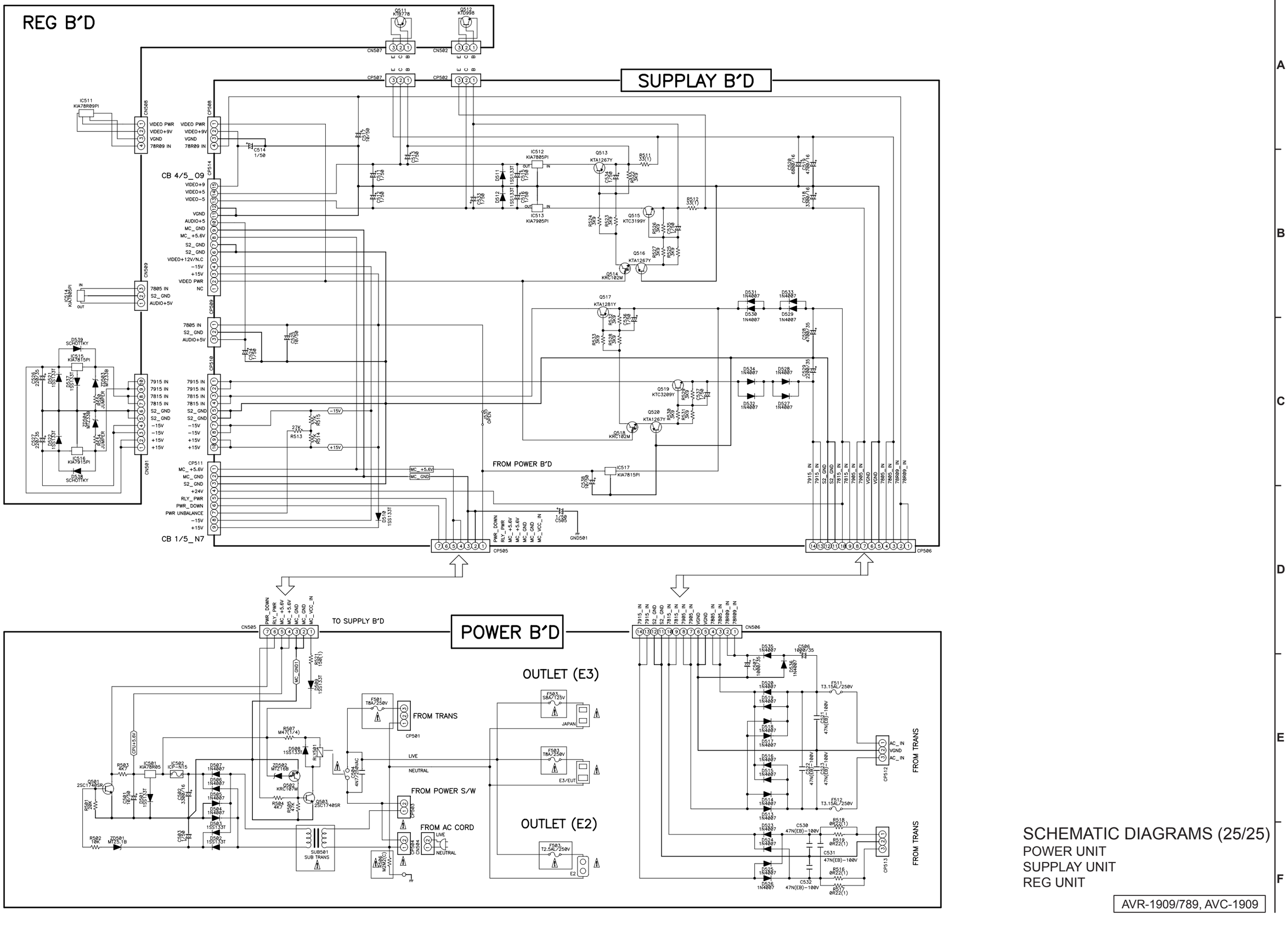
Compunet-Y SIGNAL LINE

SCHEMATIC DIAGRAMS (24/25)

D VIDEO UNIT (3/3)

VIDEO CNT UNIT

D VIDEO CNT UNIT



SCHEMATIC DIAGRAMS (25/25)

POWER UNIT

SUPPLAY UNIT

REG UNIT

AVR-1909/789, AVC-1909