

TAD

Service Manual



TAD-C2000

ORDER NO.
CRT4707

PREAMPLIFIER

TAD-C2000

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
TAD-C2000	U	AC 120 V	
TAD-C2000	YVL8	AC 220 V to 240 V	



For details, refer to "Important Check Points for good servicing".

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K-ZZZ FEB. 2011 Printed in Japan

SAFETY INFORMATION



This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product may contain a chemical known to the State of California to cause cancer, or birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

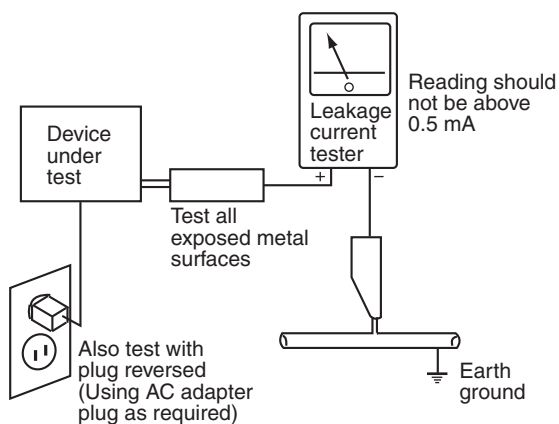
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual. The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

1. Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

- ① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

- ② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

- ③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

- ④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

- ⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

- ⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

- ⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

- ⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

- ⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

- ⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

A

The following lead-free solders are available as service parts:

- Parts numbers of lead-free solder:
GYP1006 1.0 in dia.
GYP1007 0.6 in dia.
GYP1008 0.3 in dia.

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2. SPECIFICATIONS

2.1 SPECIFICATIONS

A

■ Amplifier Section

Input connectors:

Analog Balanced x 2, Unbalanced x 2

Digital Balanced x 1, Unbalanced x 1, USB (standard type B) x 1

Output connectors:

Analog Balanced x 2, Unbalanced x 2

Rated output voltage Balanced 1.5 V, Unbalanced 0.75 V

Maximum output voltage Balanced 16 Vrms, Unbalanced 8 Vrms

B

Rated distortion (T.H.D). 0.003 %

IHF SN 120 dB

Frequency response 10 Hz to 100 kHz, –1 dB

Gain 12 dB

Analog maximum permissible input voltage (–40 dB) Balanced 20 V, Unbalanced 10 V

■

Supported sampling frequencies (XLR/RCA) 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz

Supported sampling frequencies (USB) 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz

Required computer conditions Must have USB 2.0 port and support USB Audio Class 1.0.

Supported Operating Systems Windows XP SP3 or later, Mac OS 10.5 or later

C

■ Power section/miscellaneous

Power requirements:

U.S. model AC 120 V, 60 Hz

■

Europe, Asia model AC 220 V to 240 V, 50 Hz/60 Hz

Power consumption 37 W (during Standby mode: 0.5 W or less)

External dimensions 440 mm (W) x 140 mm (H) x 393 mm (D) (maximum external dimensions)

17 5/16 in. (W) x 5 1/2 in. (H) x 15 1/2 in. (D)

Weight 23.5 kg (51.8 lb)

D

■ Accessories

Remote control 1

■

AAA/IEC R03 dry cell batteries 2

Power cord

Operating Instructions (this document)

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Note

- Specifications and the design are subject to possible modifications without notice, due to improvements.

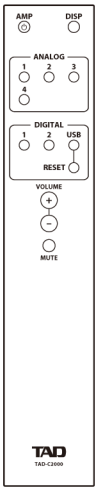
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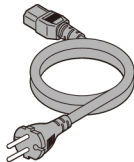
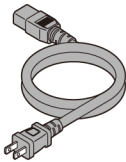
Checking what's in the box

Please check that you have received the following supplied accessories in the accessory box.

- Remote control x 1
- AAA/IEC R03 dry cell batteries x 2
- Operating Instructions (this document)



- Power cord (U.S. model)
- Power cord (Europe, Asia model)



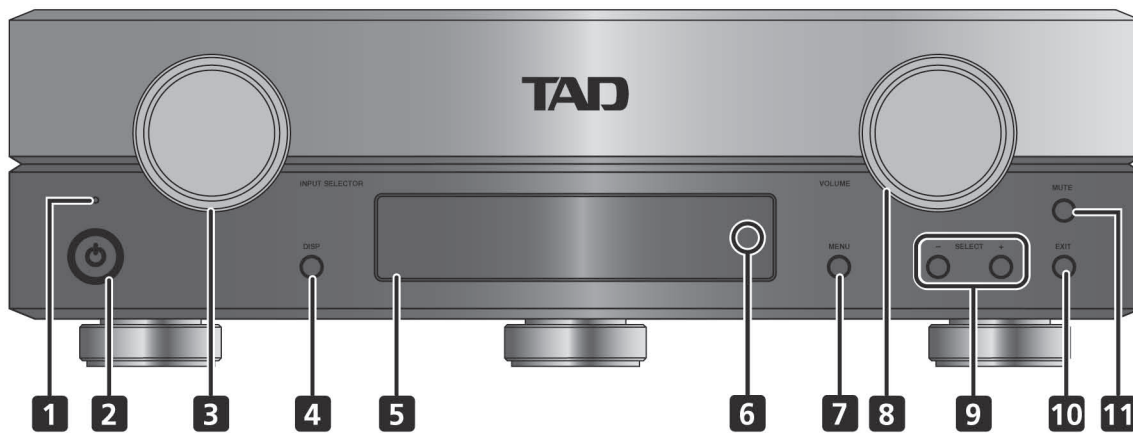
2 pins plug type (For use in Europe except in the UK)

3 pins plug type (For use in the UK, Singapore, Malaysia, Hong Kong)

2.2 PANEL FACILITIES

Controls and displays

Front panel



1 Power indicator

Indicates Power status.

Lighted Yellow: ON

Lighted Red: Standby

2 Power switch

Use to switch Power between ON and Standby modes.

3 INPUT SELECTOR

Use to switch between input sources.

4 DISP button

Use to turn the LCD display ON/OFF.

5 LCD display

Displays unit input selection and volume.

6 Remote sensor

Point the remote control unit at this sensor to operate the unit (functions within distance of approximately 7 meters).

7 MENU button

Use to switch between setting items.

8 VOLUME dial

Use to adjust sound volume.

Rotate to the right (clockwise) to increase volume, and to left (counterclockwise) to lower volume.

9 SELECT (+/-) buttons

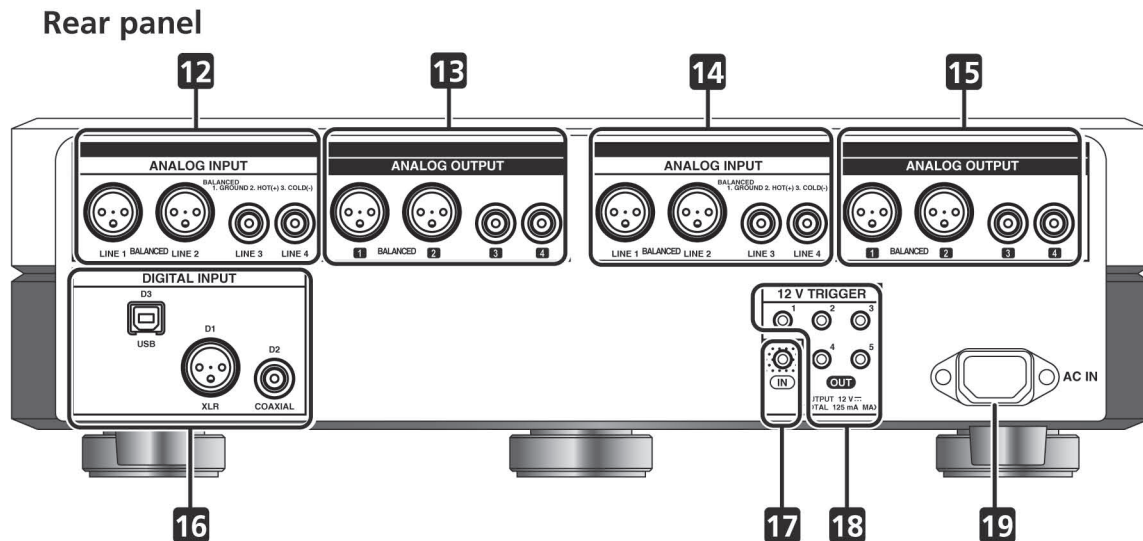
Use for making various settings.

10 EXIT button

Use to confirm various settings.

11 MUTE button

Press to temporarily mute the audio playback.



12 ANALOG INPUT R connectors

Select either balanced (XLR-3-31) or unbalanced (RCA pin jack) connectors in accordance with the type of connectors on the component to be connected.

13 ANALOG OUTPUT R connectors

Select either balanced (XLR-3-32) or unbalanced (RCA pin jack) connectors in accordance with the type of connectors on the power amplifier to be connected.

14 ANALOG INPUT L connectors

Select either balanced (XLR-3-31) or unbalanced (RCA pin jack) connectors in accordance with the type of connectors on the component to be connected.

15 ANALOG OUTPUT L connectors

Select either balanced (XLR-3-32) or unbalanced (RCA pin jack) connectors in accordance with the type of connectors on the power amplifier to be connected.

16 DIGITAL INPUT connectors

Select either USB, COAXIAL, or XLR in accordance with the type of connectors on the component to be connected.

17 12 V TRIGGER IN connector

When an external component with a 12 V TRIGGER connector is connected, this unit's ON/Standby power state can be changed by operation of the power control on the external component.

Connector: Ø 3.5 mm monaural mini-jack

Operating conditions:

During power Standby mode, when input signal's voltage changes from L to H Power switches to ON.
During power ON mode, when input signal's voltage changes from H to L Power switches to Standby.
When an H signal is being input to the 12 V TRIGGER IN connector, the unit's power switch cannot be used to change to Standby mode.

18 12 V TRIGGER OUT connectors

When an external component with a 12 V TRIGGER connector is connected, operating this unit's power switch will change the external component's power state (ON/Standby).

Connector: Ø 3.5 mm monaural mini-jack

Operating conditions:

When this unit is in power ON mode, an H signal is output.
When this unit is in power Standby mode, a L signal is output.
When linked to other components with 12 V TRIGGER input connectors, a total of five connectors and maximum 125 mA can be output. If the output exceeds 125 mA it will disappear into the L level, so excessive current should not be allowed.

19 AC IN connector

Connect the accessory power cord here.

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

Items to be checked after servicing

To keep the product quality after servicing, confirm recommended check points shown below.

No,	Procedures	Check points
1	Confirm whether the customer complain has been solved.	The customer complain must not be reappeared. Audio and operations must be normal.
2	Check the audio playback.*	Each channel audio and operations must be normal.
3	Check the appearance of the product.	No scratches or dirt on its appearance after receiving it for service.

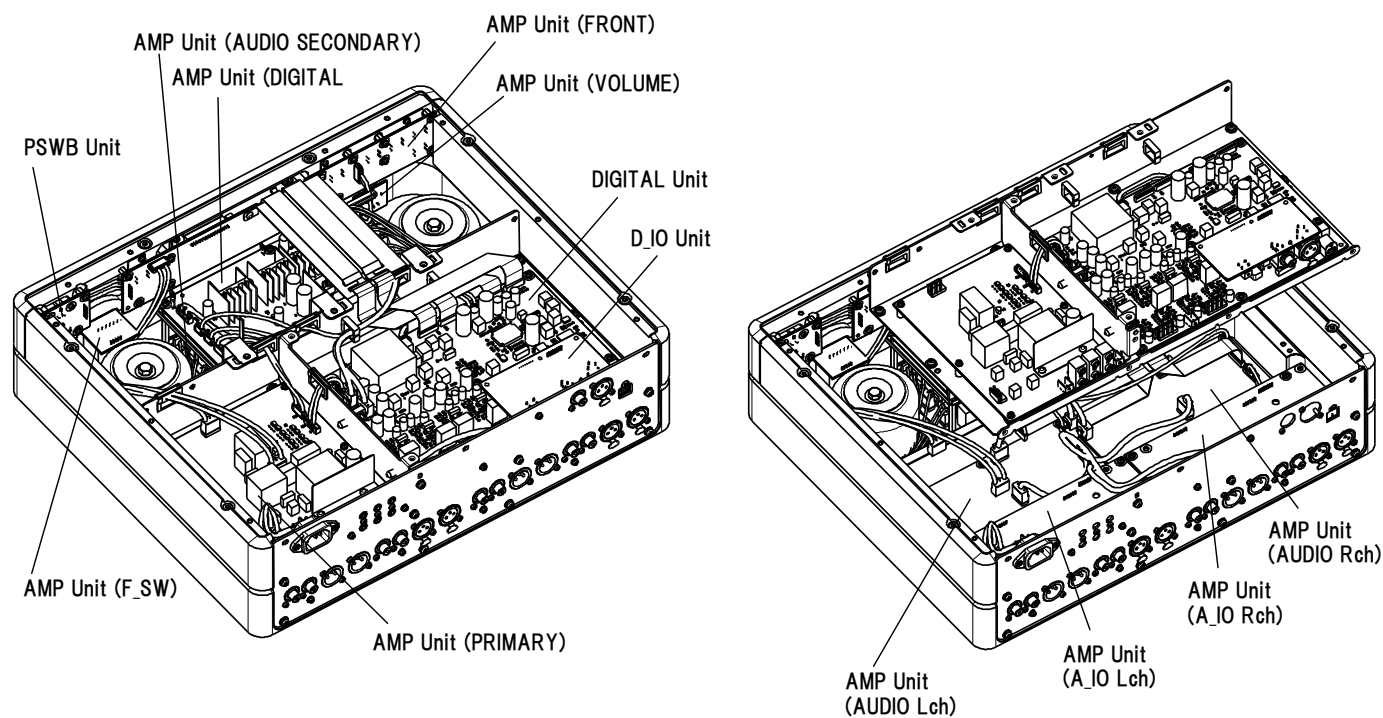
* Check both analog input and digital input.
Especially, about the USB input, refer to Owner's manual(page.17)
and it is possible to confirm the operation with Windows Media Player.

See the table below for the items to be checked regarding audio.

See the specification for the numerical value(Rated output voltage, Rated distortion, etc).

Item to be checked regarding audio
Distortion
Noise
Volume too low
Volume too high
Volume fluctuating
Sound interrupted

主要部品配置図と主要Assy番号リスト
PCB LOCATIONS



- *印の部品は、サービス用部品ではありません。従って原則として供給できません。
- △ 印の部品は、安全上重要な部品です。交換する時は、安全および性能維持のため必ず指定の部品をご使用下さい。

NOTES : ●Parts marked by “*” are generally unavailable because they are not in our Master Spare Parts List.
●The △ mark found on some component parts indicates the importance of the safety factor of the part.
Therefore, when replacing, be sure to use parts of identical designation.

マーク	名称	部品番号
Mark	No. Description	Part No.
基板ASSYの一覧		
LIST OF ASSEMBLIES		
	AMP Unit (AUDIO SECONDARY)	CWH1689
	AMP Unit (DIGITAL SECONDARY)	CWH1690
	AMP Unit (FRONT)	CWH1692
	AMP Unit (PRIMARY)	CWH1691
	DIGITAL Unit	CWH1693
	D_IO Unit	CWH1694
	PSWB Unit	CWH1695
	AMP Unit (AUDIO Lch)	CWH1685
	AMP Unit (AUDIO Rch)	CWH1687
	AMP Unit (A_IO)	CWH1686
	AMP Unit (F_SW)	CWH1697
	AMP Unit (VOLUME)	CWH1696

4. BLOCK DIAGRAM

4.1 OVERALL WIRING DIAGRAM

A

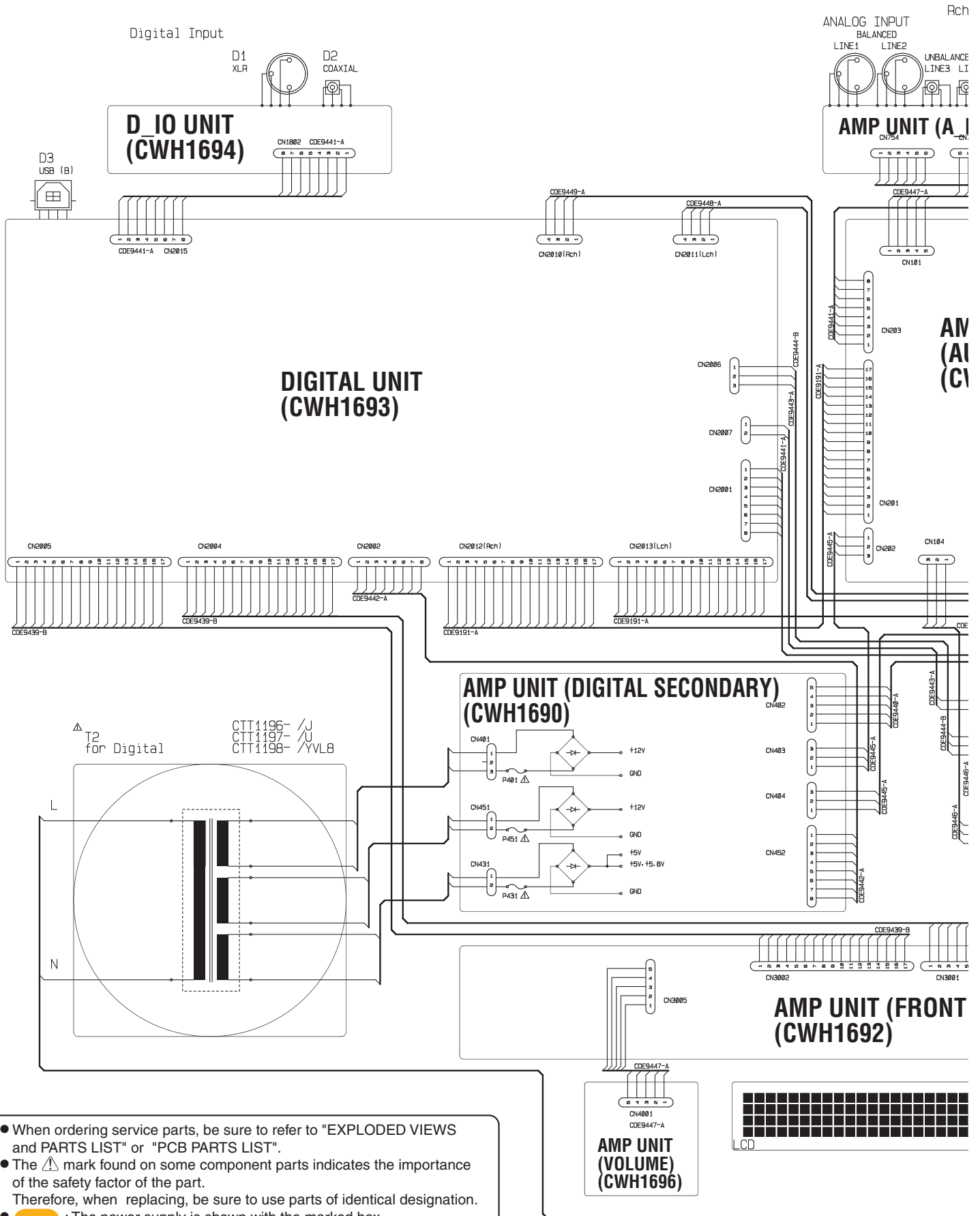
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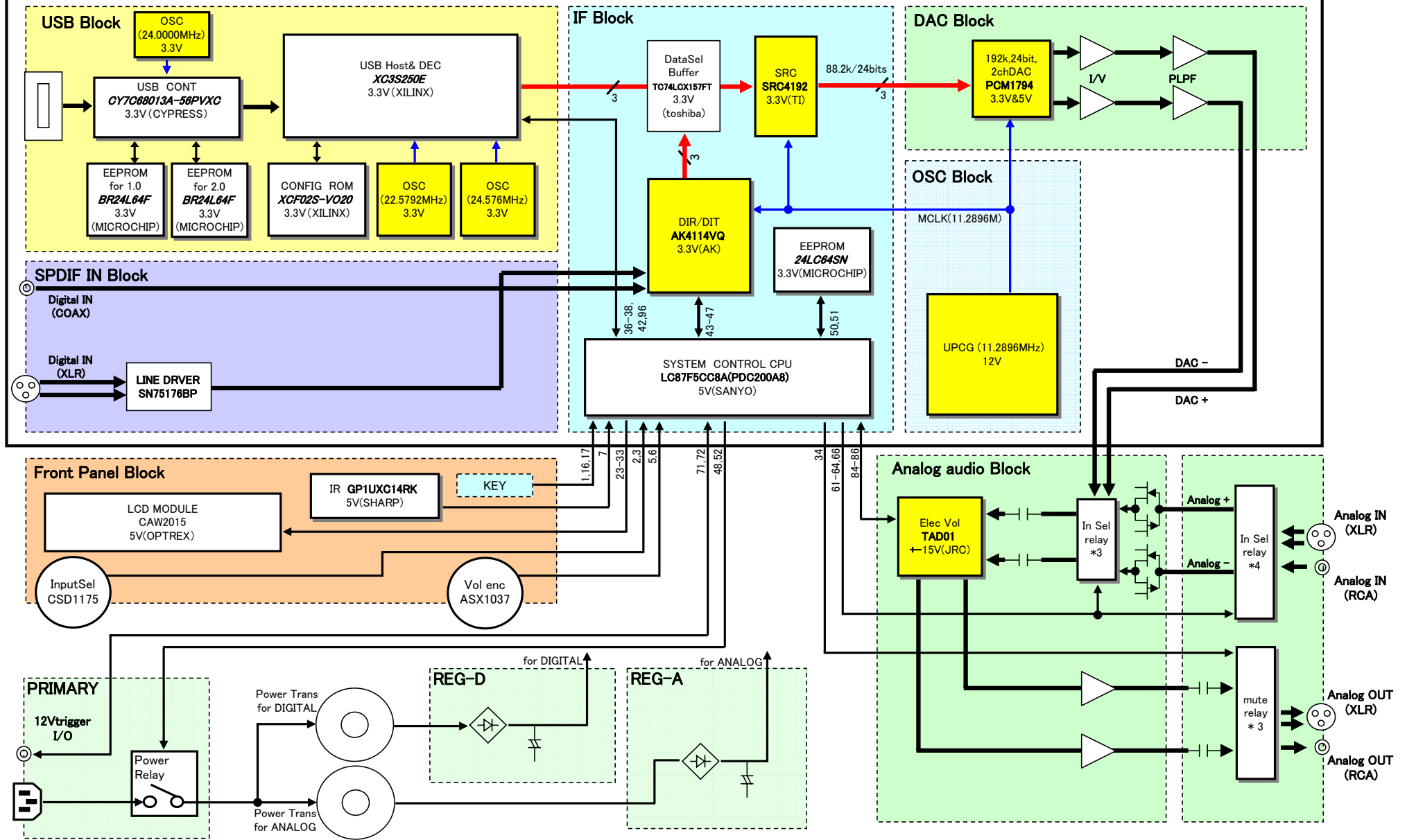


- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
-  : The power supply is shown with the marked box.



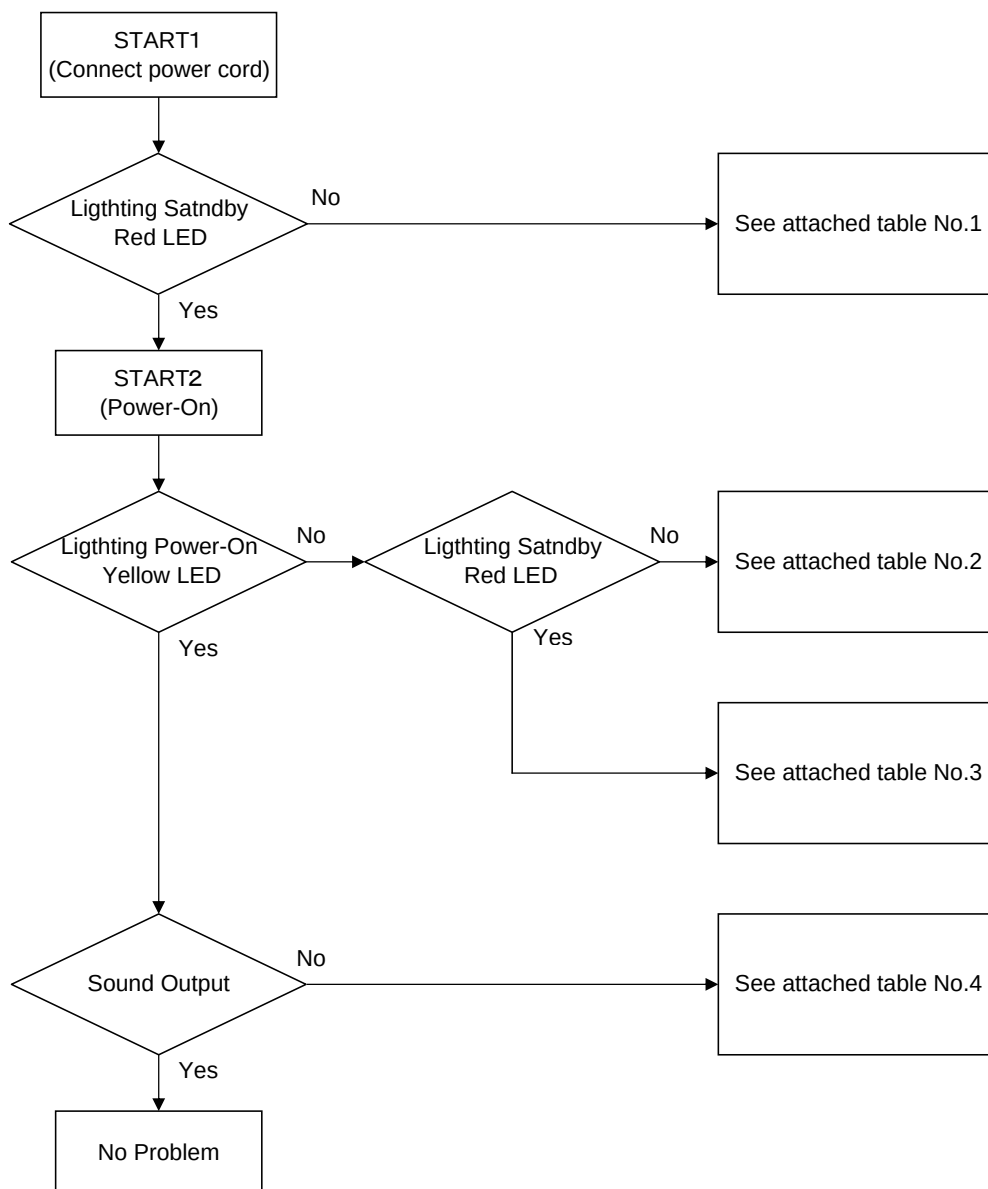
Block Diagram

Digital Block



5. DIAGNOSIS

5.1 TROUBLESHOOTING



5. DIAGNOSIS

5.1 TROUBLESHOOTING

No.	Symptoms	Diagnosis Contents	Possible Defective Points
1	Power does not turn on. Standby Red LED does not light.	Confirmation. Whether does the fuse do OPEN or not?	Primary Unit FU1,FU2
		Confirmation. Are wires disconnected or damaged?	Primary Unit CN501,CN503,CN504,CN511 DIGITAL Unit CN2001,CN2004
		Check that the following voltage is output: CN2001 1pin : +5.6V	DIGITAL Unit CN2001
2	Power does not turn on. Standby Yellow LED does not light.	Confirmation. Are wires disconnected or damaged?	P-SW Unit CN3008 FPKB Unit CN3001,CN3002,CN3004 DIGITAL Unit CN2004,CN2005
3	Power does not turn on. Protection circuit operate. Red LED flashes.	Confirmation. Are wires disconnected or damaged?	DIGITAL Unit CN2002,CN2007
		Check that the following voltage is output: CN2002 1pin,2pin : +5V CN2007 1pin : +5V	DIGITAL Unit CN2002,CN2007
4	The power turn on. The sound is nothing.	Confirmation. Are wires disconnected or damaged?	A REGULATOR Unit CN301,CN303,CN304 AUDIO Unit CN101,CN103,CN104 A IO Unit CN754,CN755
		Check that the following voltage is output: CN104 1pin : +15V CN104 3pin : -15V	AUDIO Unit CN104
		Confirmation. Are wires disconnected or damaged? (Electrical volume IC)	DIGITAL Unit CN2012,CN2013 AUDIO Unit CN201
		Confirmation. Are wires disconnected or damaged? (Mute Relay and Input Sel Relay)	AUDIO Unit CN202,CN203 A IO Unit CN756
		Confirmation. Are wires disconnected or damaged? (DIGITAL INPUT)	D IO CN1802 DIGITAL Unit CN2015,CN2006,CN2007,CN2010,CN2011 AUDIO Unit CN102
		Check that the following voltage is output: CN2006 1pin : +15V CN2006 3pin : -15V CN2007 1pin: +5V	DIGITAL Unit CN2006,CN2007

6.SERVICE MODE

6.1 TEST MODE

/How to TEST MODE to enter

(1)TEST MODE: ON

With the Standby, Press the [ESC] then the [TEST] key on the remote control unit for DVD Test mode(GGF1381).

(2)TEST MODE: OFF

Press the [ESC] key on the remote control unit for DVD Test mode(GGF1381)

Press the [POWER] button to turn the unit off.

Even if you intend to continuously use the unit , be sure to turn the power off then back on

/How to display the software version

(1)Displaying the version of the system control computer

With Test mode, press and hold the [EXIT] key on the main unit for 8 seconds

The version (part number) of the system control computer will be displayed.

Similarly, Press the [ESC] then the [CX] key on the remote control unit for DVD Test mode (GGF1381) to indicate the version of the system control computer about 2 seconds.

ex)

S	Y	S	2	0
---	---	---	---	---

(2)Canceling version display

The version display will automatically disappear after a while.

(3)TEST MODE: OFF

Press the [ESC] key on the remote control unit for DVD Test mode(GGF1381)

Press the [POWER] button to turn the unit off.

Even if you intend to continuously use the unit , be sure to turn the power off then back on

/Lighting confirmation of LCD.

(1)Lighting display of LCD

With Test mode, Press the [DISPLAY]and [EXIT] key on the main unit

Similarly, With the Test mode, Press the [DISP] key on the remote control unit for DVD Test mode(GGF1381).

Lighting all LCD on the main unit for 8 seconds.

Next, [0123456789ABCDEF] the display 16 digit two lines are lit

0.5 seconds a digit are moved one by one, it lights 16 times, and it stops.

(2)TEST MODE: OFF

Press the [ESC] key on the remote control unit for DVD Test mode(GGF1381)

Press the [POWER] button to turn the unit off.

Even if you intend to continuously use the unit , be sure to turn the power off then back on

各部の外し方 DISASSEMBLY

注意:

本製品と写真、イラストが違う場合がありますが、手順に違いはありません。

本製品特有の注意点:

- (1) 外観のキズ、汚れは大きなクレームになります。
- (2) サービス時は製品を上下反転させる必要があります。特に外観にキズをつけないよう、やわらかなものを製品の下に敷いて外観面を保護してください。

Note:

Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

Peculiar Notes of this product:

- (1) Be careful not to scratch or stain the cabinet during servicing, because it may cause a serious complaint.
- (2) The product needs to be upside down during servicing. Please put a soft cloth under the product when it is turned over.

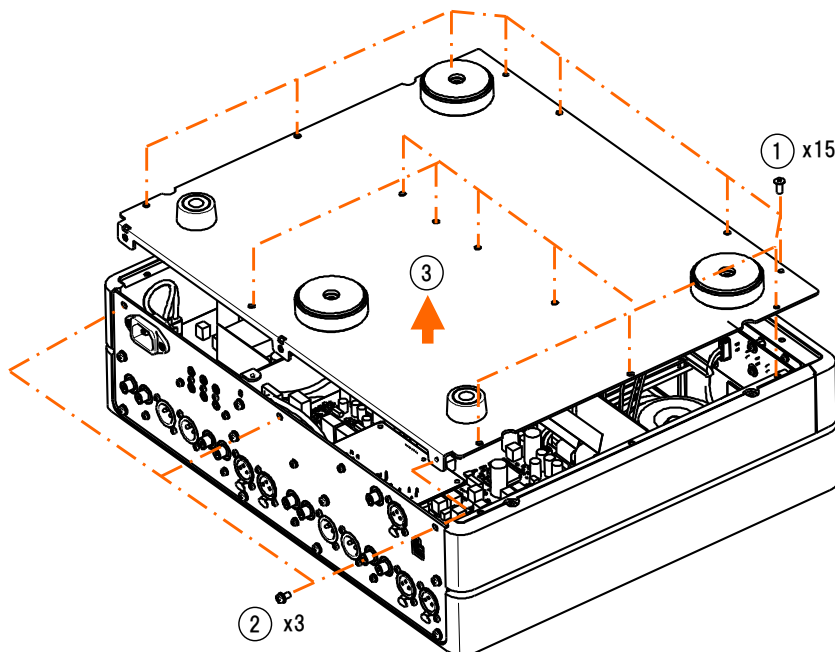
各部の外し方

Disassembly

【1】底面部

Bottom Section

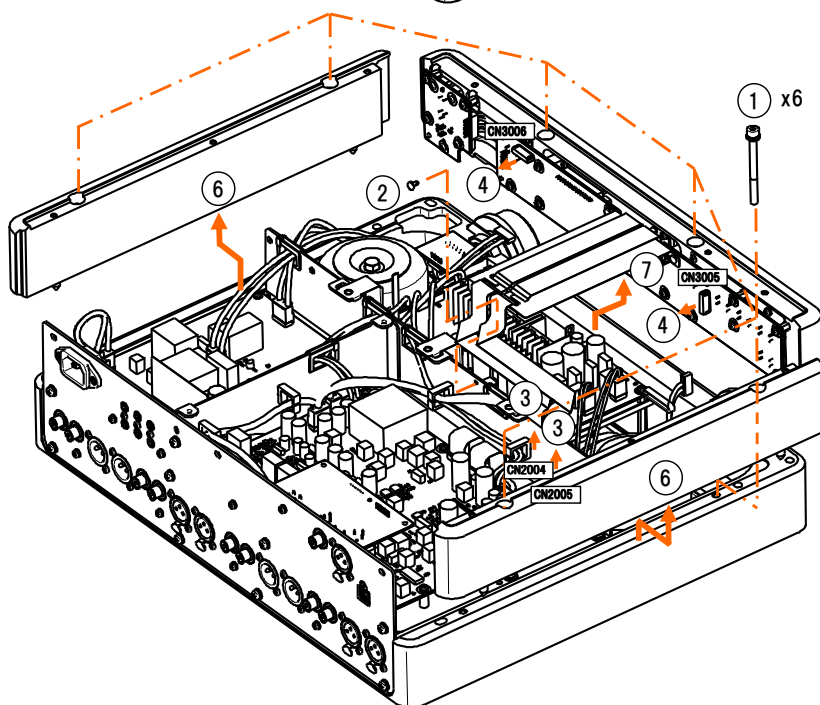
- ①ネジを外す。(x15)
Remove the screws.(x15)
- ②ネジを外す。(x3)
Remove the screws.(x3)
- ③カバー/BTMを外す。
Remove the COVER/BTM.



【2】フロントパネル

Front Panel Section

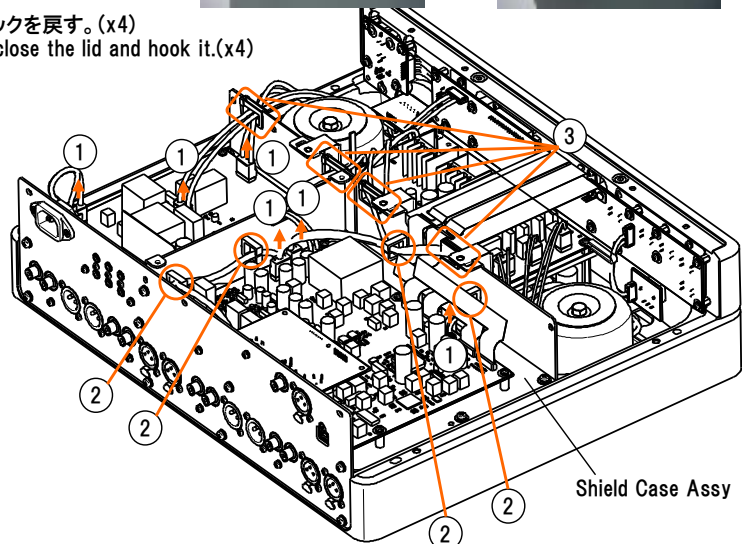
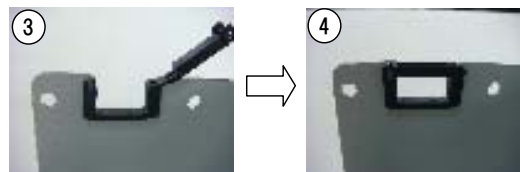
- ①ネジを外す。(x6)
Remove the screws.(x6)
- ②リベットを外す。(x1)
Remove the rivet.(x1)
- ③フレキシブルケーブル外す。(x2)
Disconnect the flexible cables.(x2)
- ④コネクタを外す。(x2)
Disconnect the connectors.(x2)
- ⑤必要に応じて、バインダーをカットする。
Cut the Binders if necessary.
- ⑥パネル/Lとパネル/Rを外す。
Remove the PANEL/L & PANEL R.
- ⑦パネル/Fを外す。
Remove the PANEL/F.



AMP Unit (AUDIO) の診断 Diagnosis of AMP Unit (AUDIO)

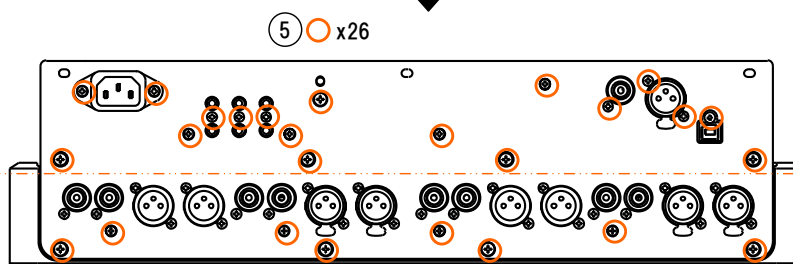
診断時は、底面部とパネル/L、パネル/Rを外してから行う。(“各部の外し方 【1】底面部 【2】フロントパネル①～⑥”参照)
Note: When the diagnosis of Audio Assy is carried out, please remove bottom section and PANEL/L and PANEL/R first.
(See “Disassembly 【1】Bottom Section 【2】Front Panel Section ① to ⑥”.)

- ①コネクタを外す。(x6)
Disconnect the connectors.(x6)
- ②ワイヤーサドルから線材を外す。(x4)
Take off the wires from the WIRE SADDLE.(x4)
- ③エッジサドル(17L)のフックを外し、蓋を開ける。(x4)
Unhook the lid of EDGING SADDLE(17L) and open it.(x4)
- ④エッジサドル(17L)から線材を外し、エッジサドル(17L)のフックを戻す。(x4)
Take off the wires from the EDGING SADDLE(17L), then close the lid and hook it.(x4)

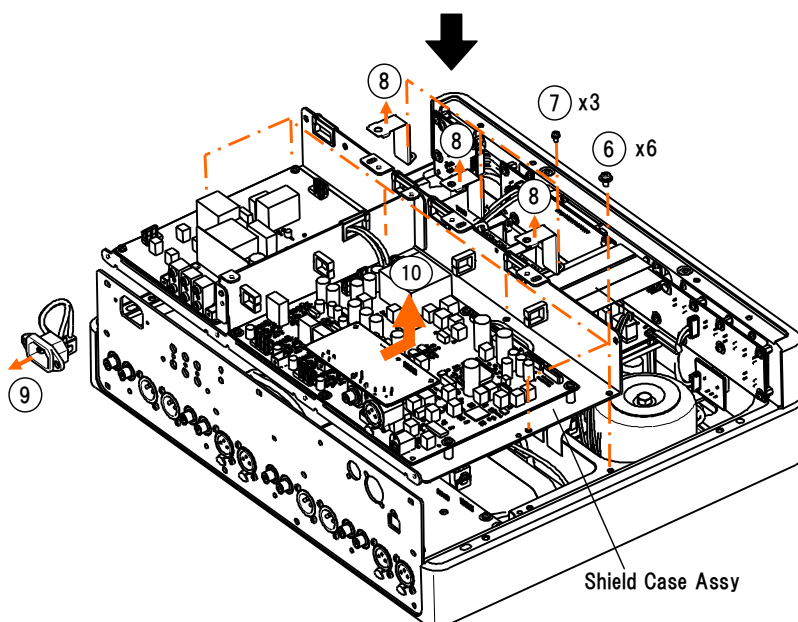


- ⑤ネジを外す。(x26)
Remove the screws.(x26)

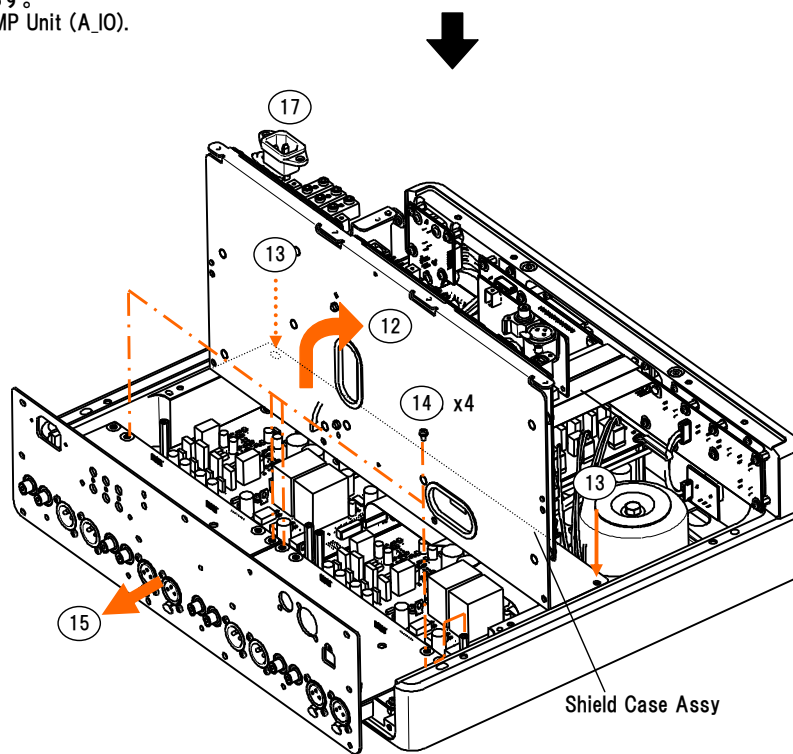
シールドケースAssyのみ外す場合は、
この線より上のビスのみを外す。
When only the Shield Case Assy needs
to be removed, just take out those
screws above this line.



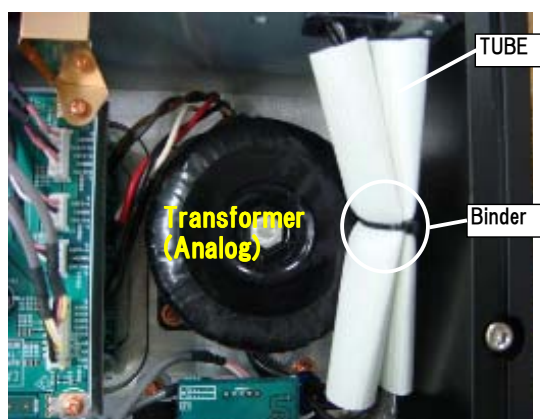
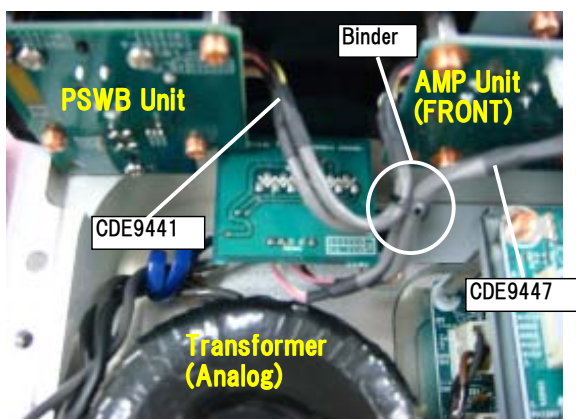
- ⑥ネジを外す。(x6)
Remove the screws.(x6)
- ⑦ネジを外す。(x3)
Remove the screws.(x3)
- ⑧プレート/GNDを外す。(x3)
Remove the PLATE/GND.(x3)
- ⑨インレットAssyを外す。
Remove the INLET Assy.
- ⑩シールドケースAssyを基板ごと外す。
Slide up the Shield Case Assy together with PCBs.
- ⑪必要に応じて、バインダーをカットする。
Cut the binders if necessary.



- ⑫シールドケースAssyを立てる。
Set up the Shield Case Assy onto the product.
- ⑬シールドケースAssyをネジで固定する。(x2)
Screw the Shield Case Assy.(x2)
- ⑭ネジを外す。(x4)
Remove the screws.(x4)
- ⑮パネル/ROOをAMP Unit (A_I0)ごと後ろ方向にずらす。
Slide the PANEL/ROO backward together with AMP Unit (A_I0).
- ⑯必要に応じて、コネクターをつなぐ。
Connect the wires if necessary.
- ⑰インレットAssyをつなぐ。
Connect the INLET Assy.



配線時の注意 Note on wiring



/YVL8 model only

各PCB Assyの外し方 Disassembly of PCB Assemblies

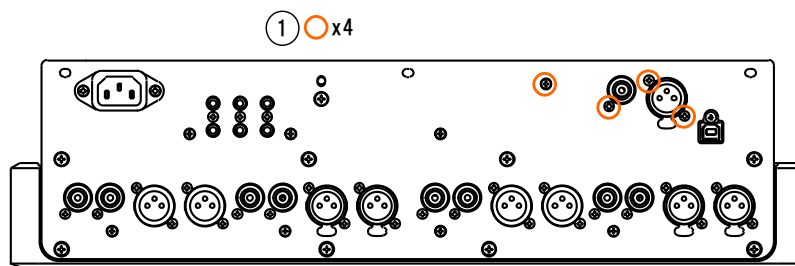
以下の作業は外観保護の為、底面部・フロントパネル部を外してから行うことを推奨します。(“各部の外し方”参照)

Note: Before you start the following disassembly procedures, it is recommended that bottom cover and Front Panel Assy should be removed to prevent any damage on the appearance surface.

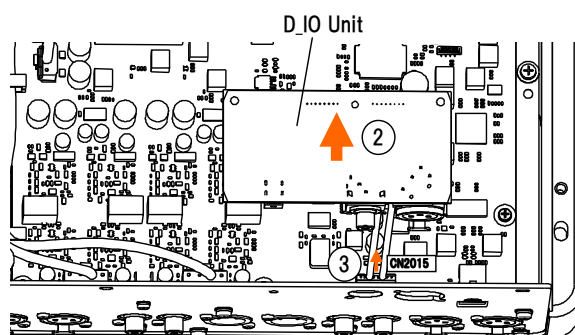
(See “Disassembly”.)

■D_IO Unit

- ①ネジを外す。(x4)
Remove the screws.(x4)

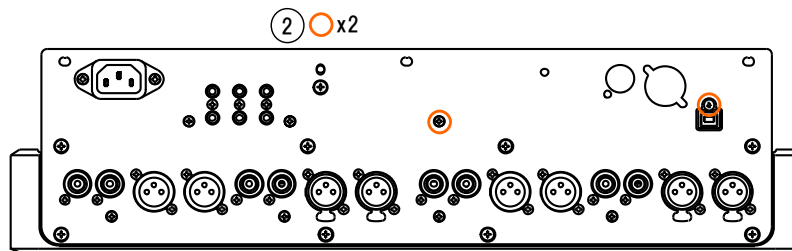


- ②D_IO基板をパネル/ROOから外す。
Take out the D_IO Unit from PANEL/ROO.
※XLR端子のレバーに注意のこと。
Be cautious of lever of XLR terminal.
- ③CN2015を外す。
Disconnect the CN2015.

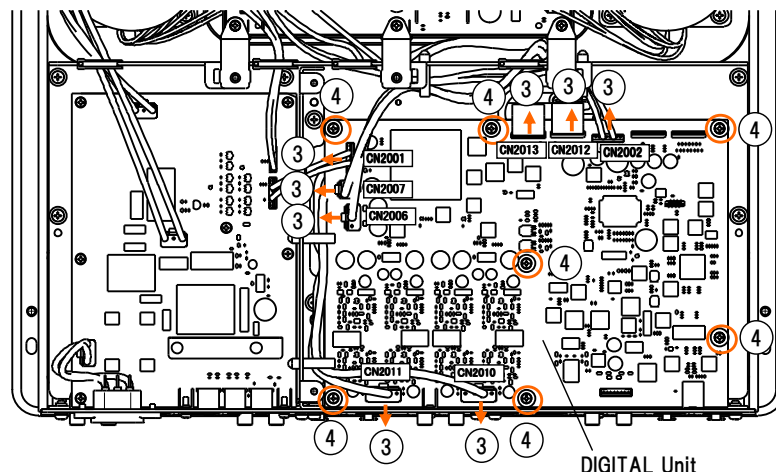


■DIGITAL Unit

- ① D.I/O基板を外す。
(“■D.I/O Unit”参照。)
Take out the D.I/O Unit from the product.
(See “■D.I/O Unit”.)
- ② ネジを外す。(x2)
Remove the screws.(x2)



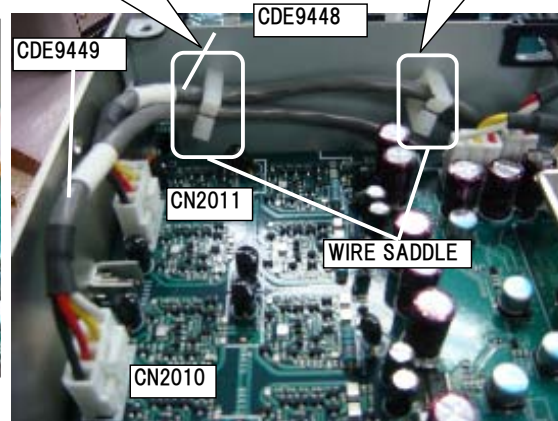
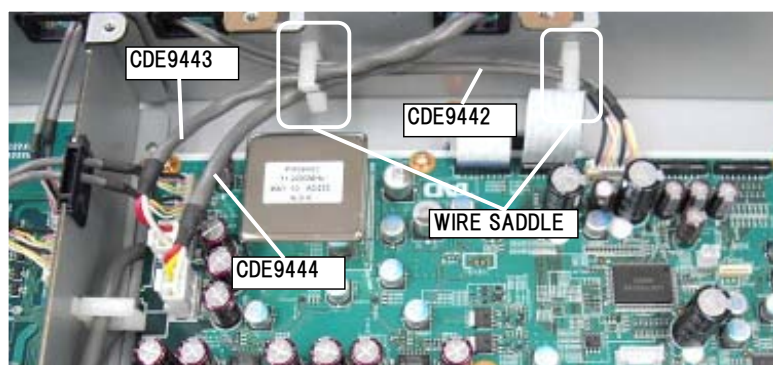
- ③ CN2001, CN2002, CN2006, CN2007, CN2010～CN2013を外す。
Disconnect the CN2001, CN2002, CN2006, CN2007, and CN2010 to CN2013.
- ④ ネジを外す。(x7)
Remove the screws.(x7)
- ⑤ DIGITAL基板を本体から外す。
Take out the DIGITAL Unit from the product.



配線時の注意 Note on wiring

CDE9448, CDE9449両方通す。
Hold both CDE9448 and CDE9449.

CDE9448のみ通す。
Hold only CDE9448.



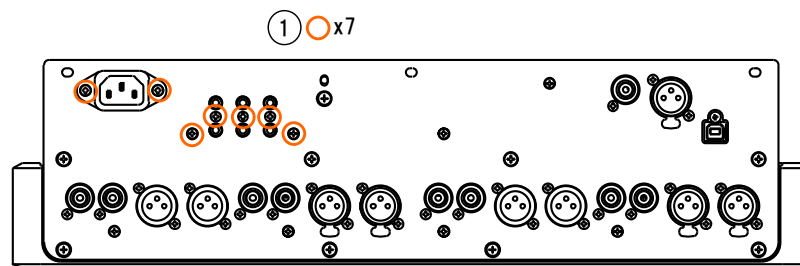
上図のように線材をワイヤーサドルに通す。
Hold the wires by the WIRE SADDLE as above picture.

上図のように線材をワイヤーサドルに通す。
Hold the wires by the WIRE SADDLE as above picture.

■AMP Unit (PRIMARY)

①ネジを外す。(x7)

Remove the screws.(x7)



②CN501, CN503, CN504, CN511, CN512を外す。

Disconnect the CN501, CN503, CN504, CN511 and CN512.

③INLET Assyを外す。

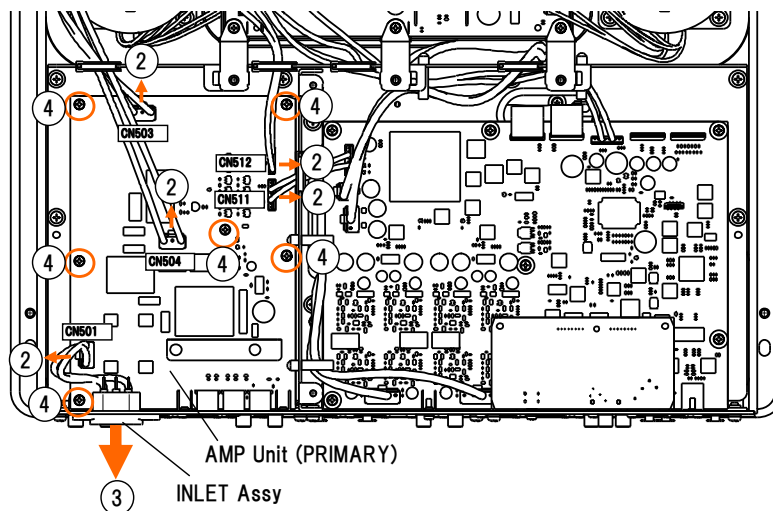
Take out the INLET Assy from PANEL/R.

④ネジを外す。(x6)

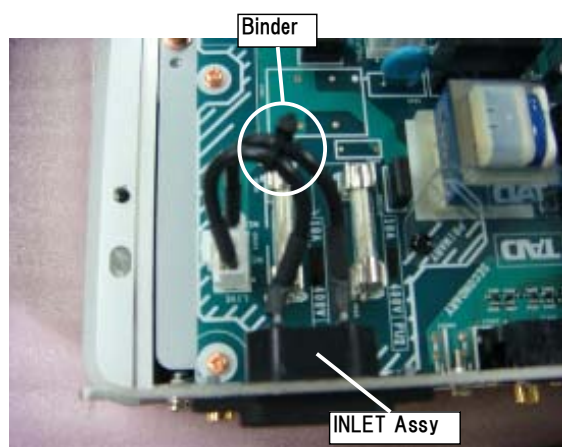
Remove the screws.(x6)

⑤PRIMARY基板を本体から外す。

Take out the AMP Unit (PRIMARY) from the product.

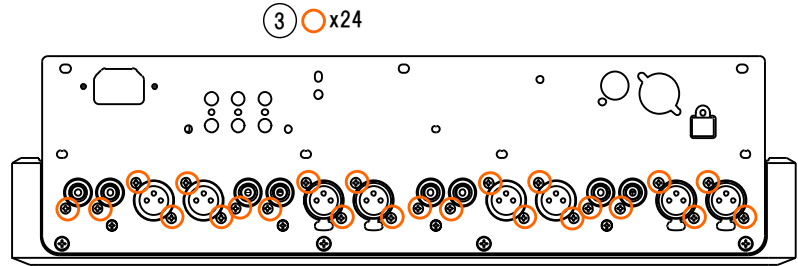


配線時の注意 Note on wiring

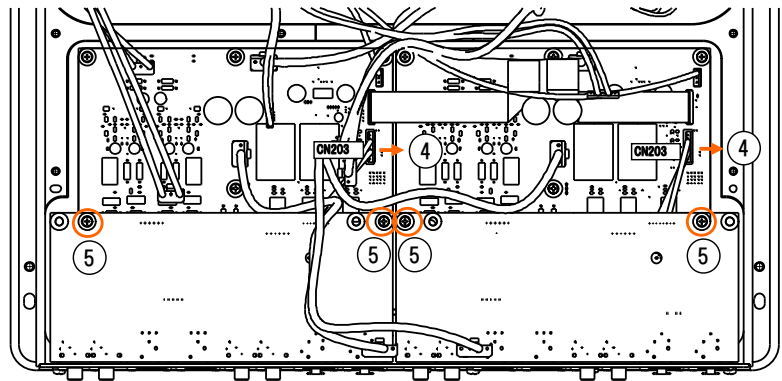


■AMP Unit (A_IO)

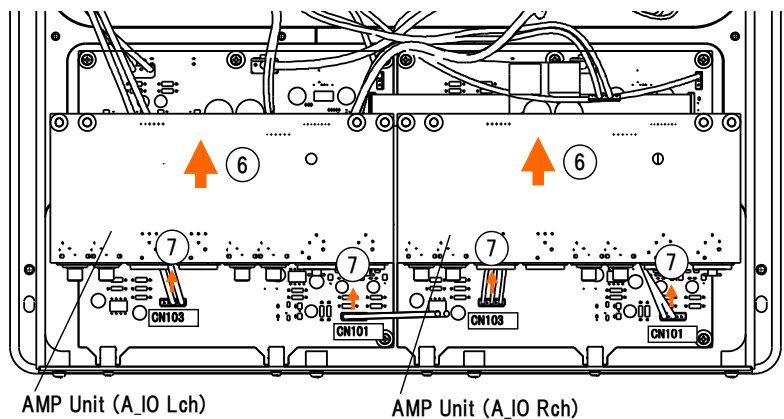
- ①シールドケースAssyを外す。
(“AMP Unit (AUDIO) の診断”の①～⑪参照。)
Take out the Shield Case Assy from the product.
(See “Diagnosis of AMP Unit (AUDIO)” ① to ⑪.)
- ②必要に応じて線材を外す。
Release the jumper wires, as required.
- ③ネジを外す。(x24)
Remove the screws.(x24)



- ④CN203を外す。(x2)
Disconnect the CN203.(x2)
- ⑤ネジを外す。(x4)
Remove the screws.(x4)

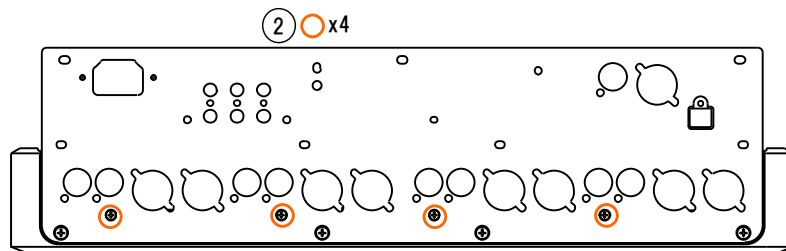


- ⑥A_IO基板をパネル/ROOから外す。(x2)
Take out the AMP Unit (A_IO) from PANEL/ROO.(x2)
※XLR端子のレバーに注意のこと。
Be cautious of lever of XLR terminal.
- ⑦CN101, CN103を外す。(x2)
Disconnect the CN101 and CN103.(x2)
- ⑧A_IO基板を本体から外す。(x2)
Take out the AMP Unit (A_IO) from the product.(x2)

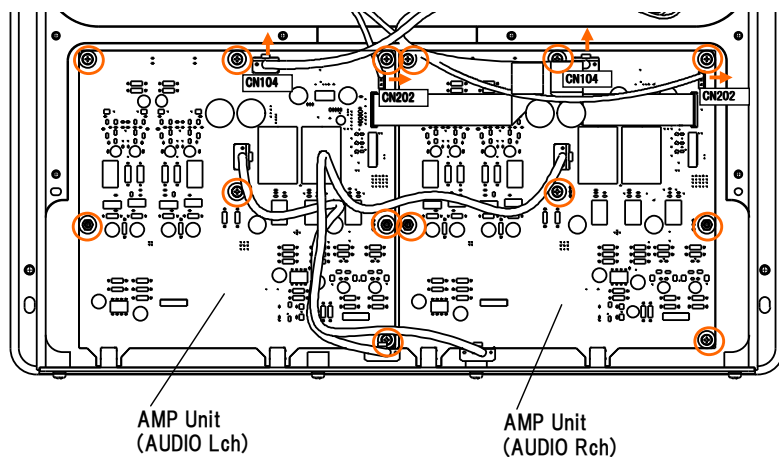


■AMP Unit (AUDIO)

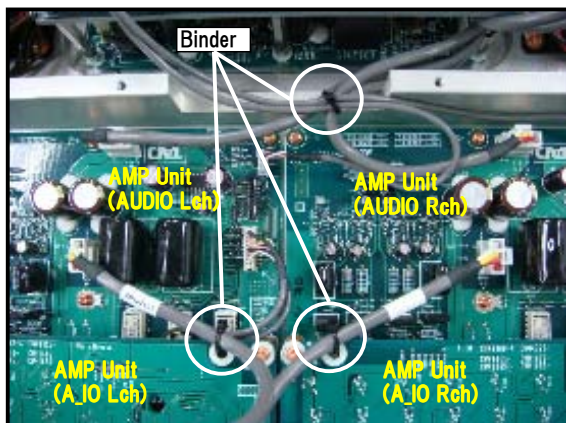
- ① A_IO基板を外す。(x2)
(“■AMP Unit (A_IO)”参照。)
Take out the AMP Unit (A_IO) from the product.(x2)
(See “■AMP Unit (A_IO)”.)
- ② ネジを外す。(x4)
Remove the screws.(x4)



- ③ CN104, CN202を外す。(x2)
Disconnect the CN104 and CN202.(x2)
- ④ ネジを外す。(x14)
Remove the screws.(x14)
- ⑤ AUDIO 基板を本体から外す。
Take out the AMP Unit (AUDIO) from the product.

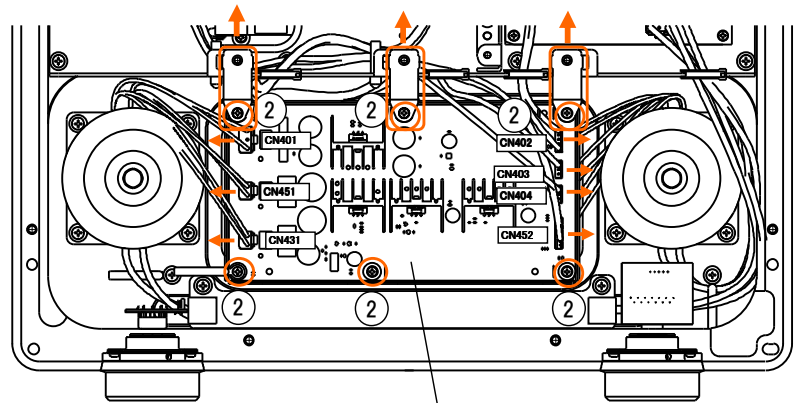


配線時の注意 Note on wiring



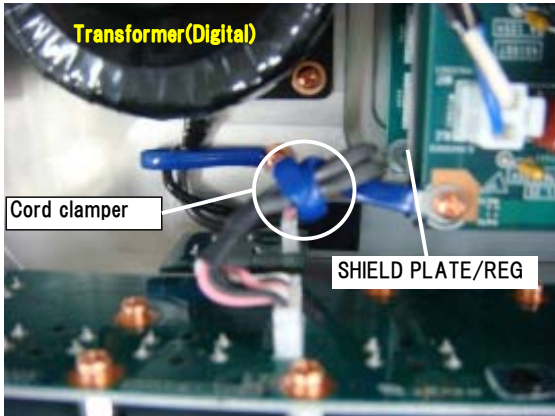
■AMP Unit (DIGITAL SECONDARY)

- ①CN401～CN404, CN431, CN451, CN452を外す。
Disconnect the CN401 to CN404, CN431, CN451 and CN452.
- ②ネジを外す。(x6)
Remove the screws.(x6)
- ③プレート/GNDを外す。(x3)
Remove the PLATE/GND.(x3)
- ④DIGITAL SECONDARY基板を本体から外す。
Take out the AMP Unit (DIGITAL SECONDARY) from the product.

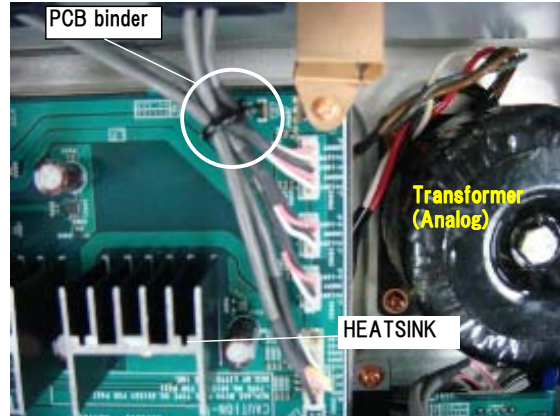


AMP Unit
(DIGITAL SECONDARY)

配線時の注意 Note on wiring



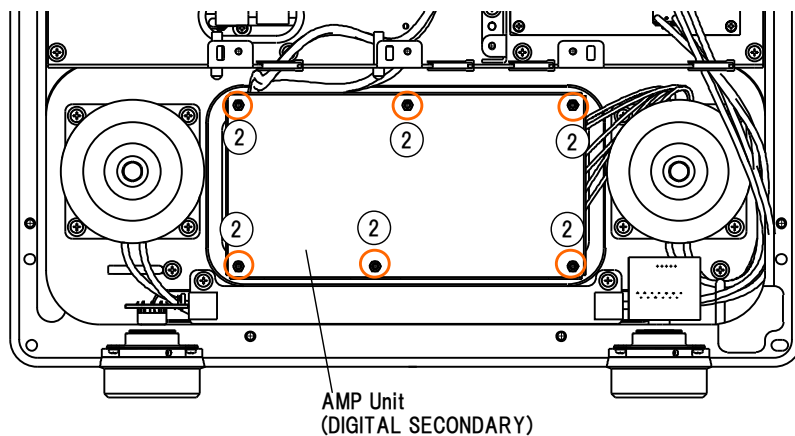
線材がトランス(デジタル)やシールドプレート/REGに当たらないようにコード押え金具にて固定すること。
Secure the cables by the cord clasper as not to touch to Transformer(Digital) and SHIELD PLATE/REG.



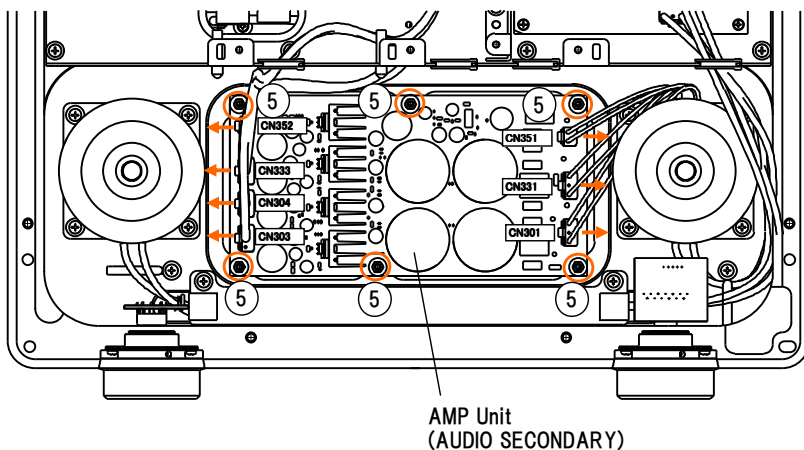
線材がヒートシンクに当たらないようにPCBバインダーにて固定すること。
Secure the cables by the PCB binder as not to touch to the HEATSINK.

■AMP Unit (AUDIO SECONDARY)

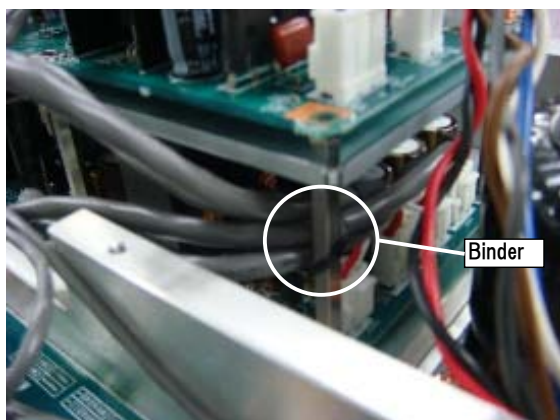
- ①DIGITAL SECONDARY基板を外す。
(“■AMP Unit (DIGITAL SECONDARY)”参照。)
Take out the AMP Unit (DIGITAL SECONDARY)
from the product.
(See “■AMP Unit (DIGITAL SECONDARY)”.)
- ②スタッドを外す。(x6)
Remove the STUD.(x6)
- ③SHIELD PLATE/REGを本体から外す。
Take out the SHIELD PLATE/REG from the product.



- ④CN301, CN303, CN304, CN331, CN333, CN351, CN352を外す。
Disconnect the CN301, CN303, CN304, CN331, CN333, CN351 and CN352.
- ⑤スタッドを外す。(x6)
Remove the STUD.(x6)
- ⑥AUDIO SECONDARY基板を本体から外す。
Take out the AMP Unit (AUDIO SECONDARY)
from the product.

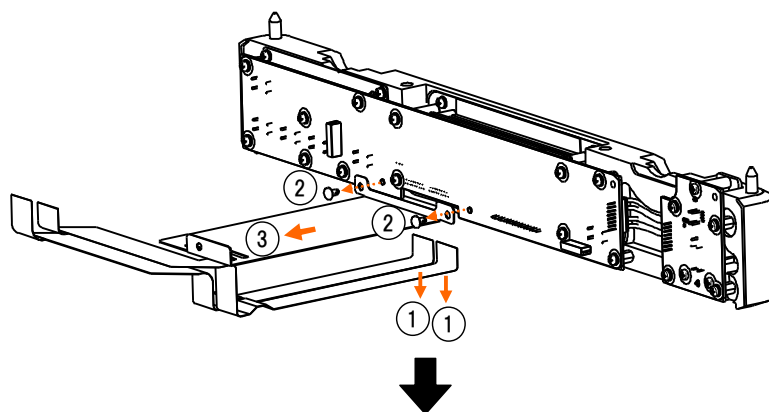


配線時の注意 Note on wiring

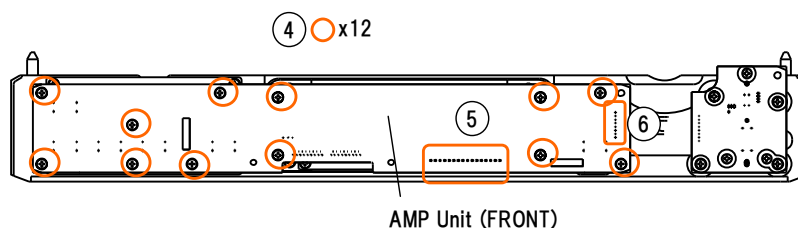


■AMP Unit (FRONT)

- ①フレキシブルケーブル外す。(x2)
Disconnect the flexible cables.(x2)
- ②リベットを外す。(x2)
Remove the rivet.(x2)
- ③バリア/FFCを外す。
Take out the BARRIER from the product.

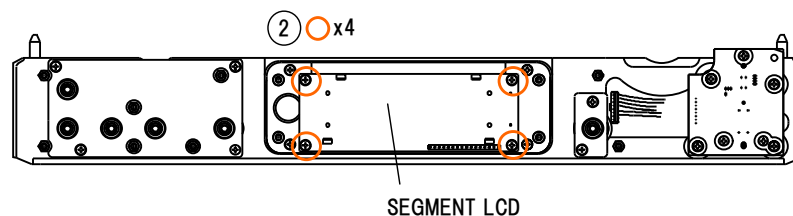


- ④ネジを外す。(x12)
Remove the screws.(x12)
- ⑤B to BのCN3003を外しながら、FPKB基板を外す。
Take out the FPKB unit after B to B connector CN3003 is disconnected.
- ⑥CN3004を外す。
Disconnect the CNN3004.



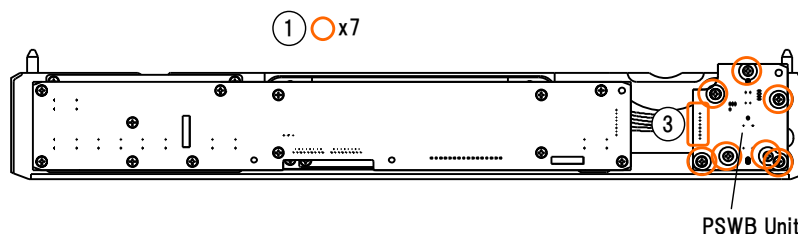
■SEGMENT LCD

- ①FRONT基板を外す。
(“■AMP Unit (FRONT)”参照。)
Take out the AMP Unit (FRONT) from the product.
(See “■AMP Unit (FRONT)”.)
- ②ネジを外す。(x4)
Remove the screws.(x4)
- ③SEGMENT LCDを外す。
Take out the SEGMENT LCD.



■PSWB Unit

- ①ネジを外す。(x7)
Remove the screws.(x7)
- ②PSWB基板を外す。
Take out the PSWB unit.
- ③CN3008を外す。
Disconnect the CNN3008.

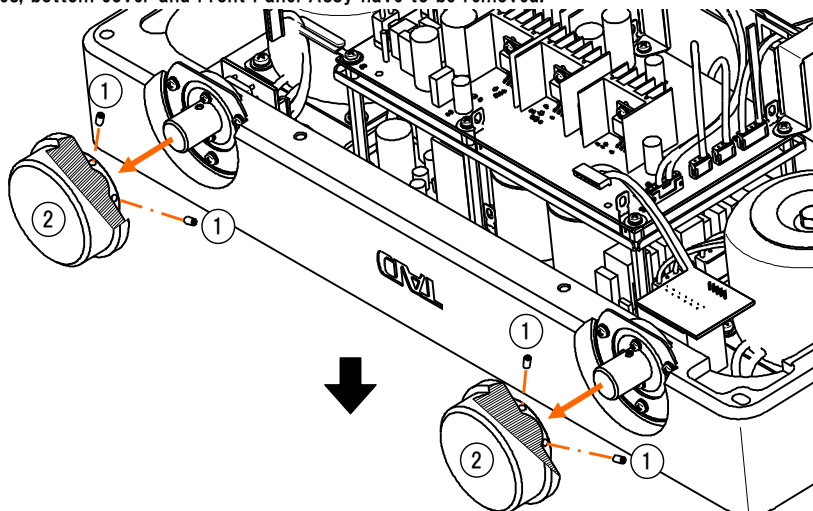


ベアリングの外し方
Disassembly of BEARING

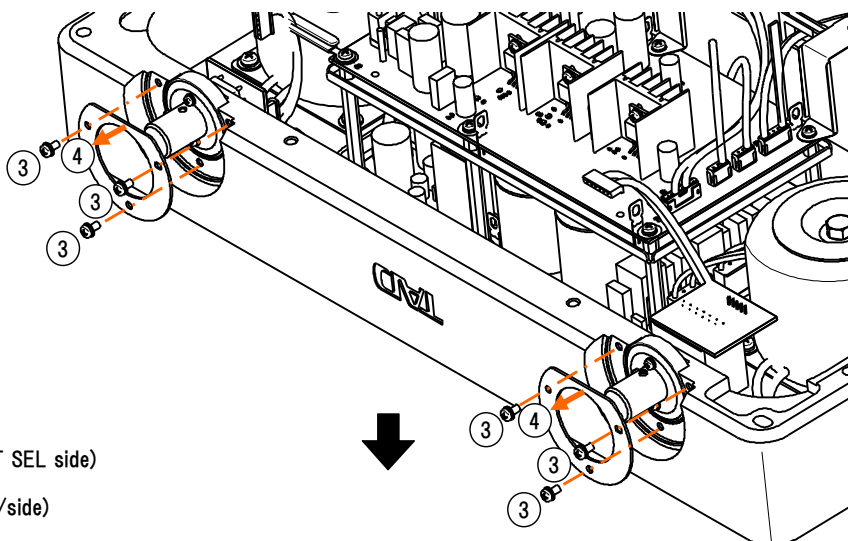
以下の作業は、底面部・フロントパネル部を外してから行う。(“各部の外し方”参照)

Note: Before you start the following disassembly procedures, bottom cover and Front Panel Assy have to be removed.
(See “Disassembly”.)

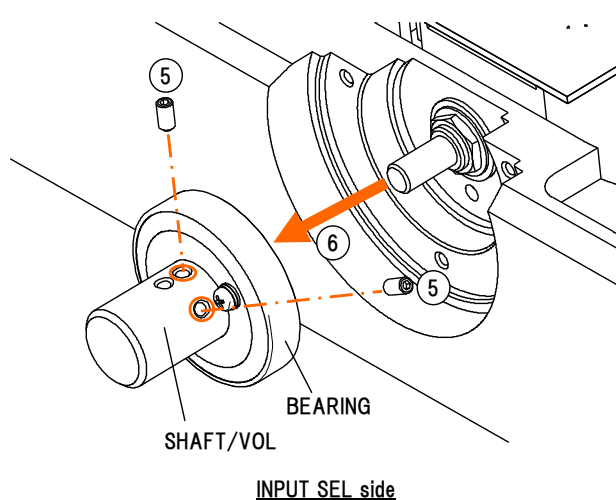
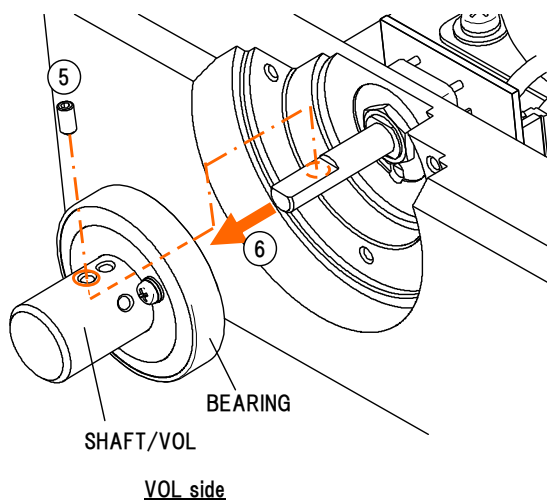
- ①イモネジを外す。(x2/片側)
Remove the set screws.(x2/side)
- ②ノブ/VOLを外す。(x2/片側)
Take out the KNOB/VOL.(x2/side)



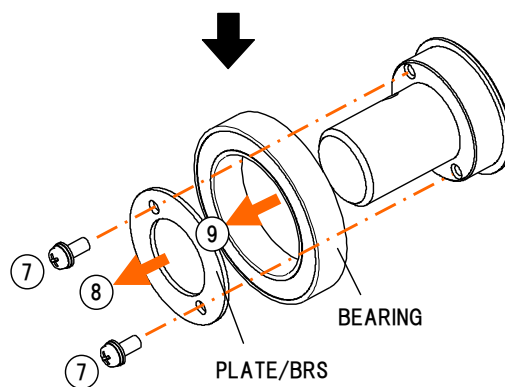
- ③ネジを外す。(x3/片側)
Remove the screws.(x3/side)
- ④プレート/BRLを外す。(x1/片側)
Take out the PLATE/BRL.(x1/side)



- ⑤イモネジを外す。(x1/VOL側, x2/INPUT SEL側)
Remove the set screws.(x1/VOL side, x2/INPUT SEL side)
- ⑥シャフト/VOLを本体から外す。(x1/片側)
Take out the SHAFT/VOL from the product.(x1/side)

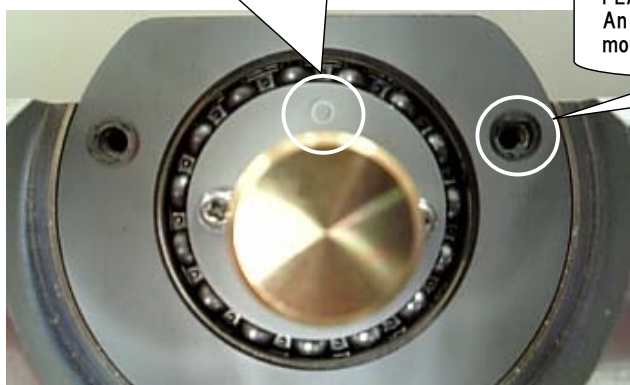


- ⑦ネジを外す。(x2/片側)
Remove the set screws.(x2/side)
- ⑧プレート/BRSを外す。(x1/片側)
Take out the PLATE/BRS.(x1/side)
- ⑨ベアリングを外す。(x1/片側)
Take out the BEARING.(x1/side)



組立て時の注意
Note on Assembling

PLATE/BRSはマーキングが手前を向くように取り付けること。
PLATE/BRS should be mounted facing the marking to front.



PLATE/BRLは長孔が右側にくるように取り付けること。
An elongated hole on PLATE/BRL should be the right side when mounting.

8. EACH SETTING AND ADJUSTMENT

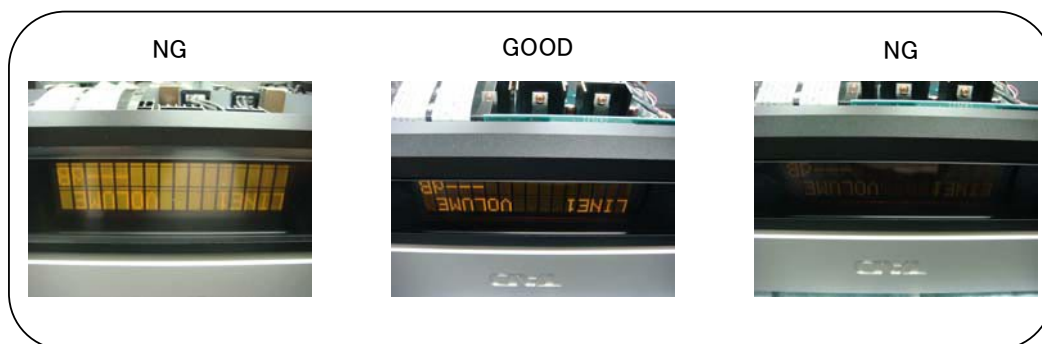
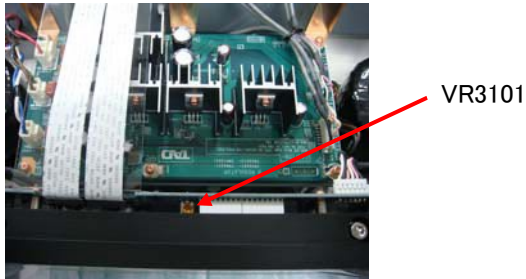
8.1 ADJUSTMENT

[1]ADJUSTMENT ITEMS AND LOCATION

■Adjustment Items

[The brightness of LCD adjustment]

1. Power on in a usual mode.
2. VR3101 is adjusted as the contrast is clear in view of in front of.



②In view of the side under the diagonal (heaven side), the brightness of the character must not fall.

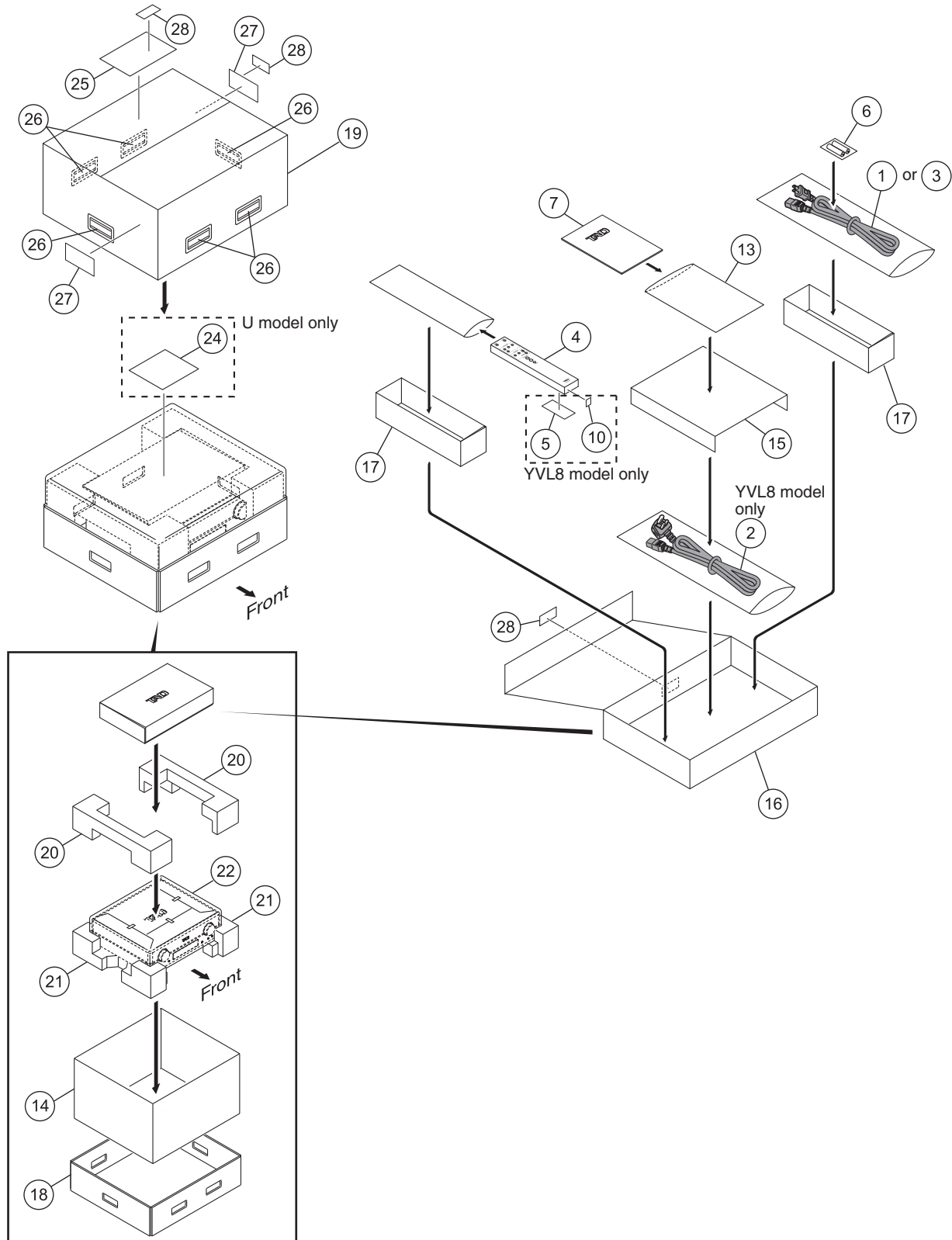
[2]JIGS AND MEASURING INSTRUMENTS



9. EXPLODED VIEWS AND PARTS LIST

- NOTES :
- Parts marked by " * " are generally unavailable because they are not in our Master Spare Parts List.
 - The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 - Screw adjacent to ⚠ mark on the product are used for disassembly.
 - For the applying amount of lubricants or glue, follow the instructions in this manual.
- (In the case of no amount instructions, apply as you think it appropriate.)

9.1 PACKING SECTION



(1) PACKING SECTION PARTS LIST

Mark No.	Description	Part No.
⚠ 1	Power Cord	See Contrast table (2)
⚠ 2	Power Cord	See Contrast table (2)
⚠ 3	Power Cord	See Contrast table (2)
	4 Remote Control	CXE4024
	5 Battery Cover	See Contrast table (2)
* 6	Dry Cell Batteries (AAA/IEC R03)VEM1051	
	7 Operating Instructions	CRD4532
* 8	•••••	
* 9	•••••	
* 10	Label (WEEE)	See Contrast table (2)
* 11	•••••	
* 12	•••••	
	13 Poly Bag	CEG1173
	14 Poly Bag	CEG1452
* 15	Partition	CHW2135
	16 Accessory Box	CHW2145
	17 Spacer	CHW2146
	18 Box/BTM	CHA3834
	19 Carton Box/OS	CHG7479
	20 Protector/TOP	CHP4114
	21 Protector/BTM	CHP4115
	22 Sheet	CHV1005
	23 •••••	
* 24	Label	See Contrast table (2)
* 25	Other Caut LBL/OS	CAN6698
	26 Holder	CNW2003
* 27	Name Label	CAL7803
* 28	Label	VRW1629

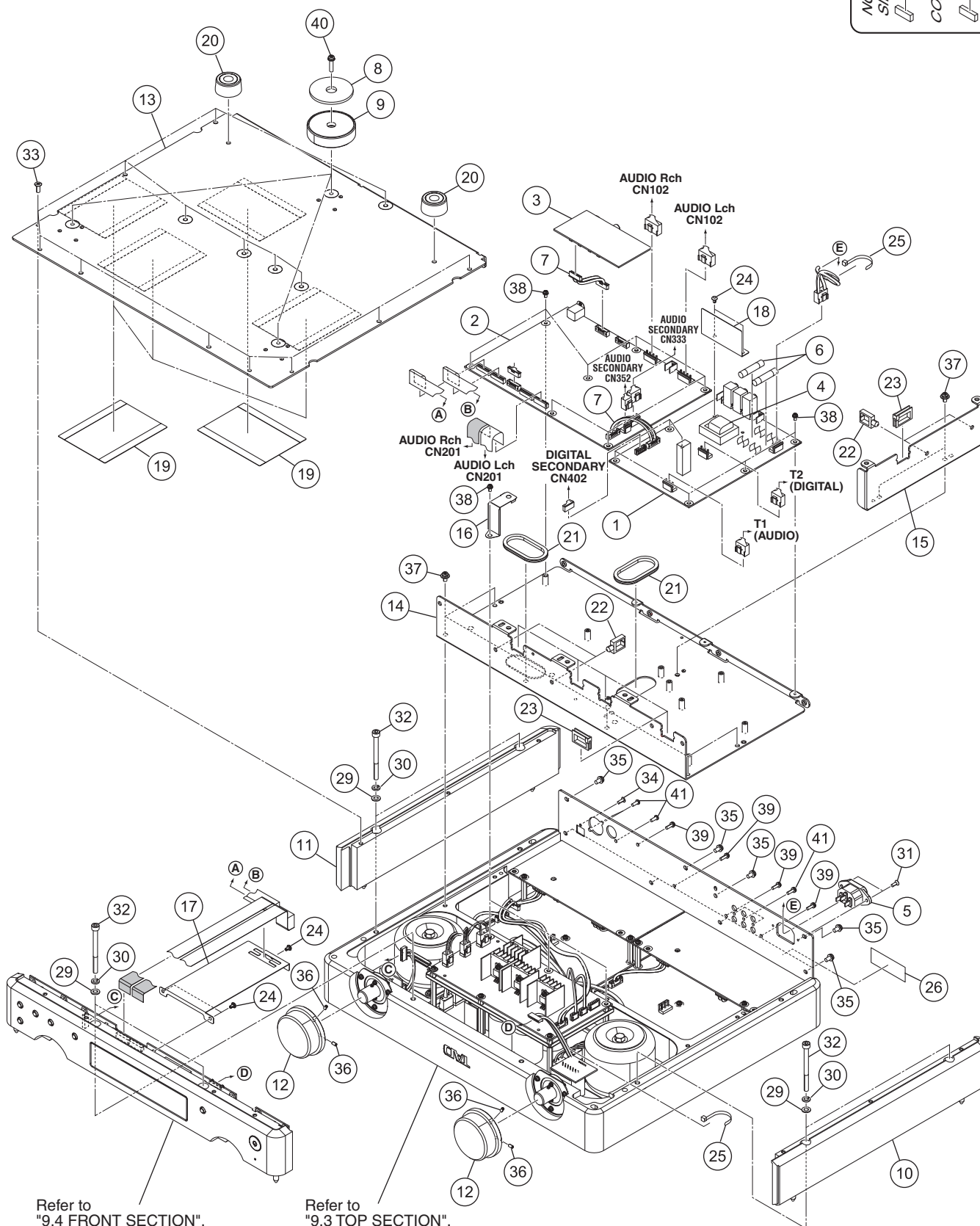
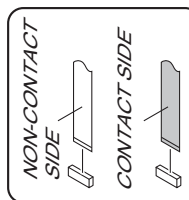
(2) CONTRAST TABLE

TAD-C2000/U and YVL8 are constructed the same except for the following:

Mark	No.	Symbol and Description	TAD-C2000/U	TAD-C2000/YVL8
⚠	1	Power Cord	ADG7061	Not used
⚠	2	Power Cord	Not used	ADG7062
⚠	3	Power Cord	Not used	ADG7104
	5	Battery Cover	Not used	CNW2257
*	10	Label (WEEE)	Not used	ARW7322
*	24	Label	CAN6233	Not used

9.2 EXTERIOR SECTION

• Bottom view



(1) EXTERIOR SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	AMP Unit (PRIMARY)	CWH1691	21	Bush	CNW2247
2	DIGITAL Unit	CWH1693	22	Wire Saddle	DEC1299
3	D_IO Unit	CWH1694	23	Edging Saddle (17L)	DEC1762
⚠	4 Power Transformer (T501)	See Contrast table (2)	24	Rivet	VEC1907
⚠	5 AC Inlet Assy	CDX1017	25	Binder	ZCA-SKB90BK
⚠	6 Fuse (FU1, FU2)	CEK1374	*	26 Label (Blank)	CAL8323
7	Conn-Cord	CDE9441	27	•••••	
8	Cushion	AEC7224	28	•••••	
9	Insulator 56 (MET)	ANL7028	29	Washer	WB50S
10	Panel/L	CLA5017	30	Washer	WS50S
11	Panel/R	CLA5018	31	Screw	CBA2242
12	Knob/VOL	CLA5019	32	Screw	CBA2268
13	Cover/BTM	CND6006	33	Screw	CBA2279
14	Shield Case	CND6007	34	Screw	CBA2280
15	Shield Plate	CND6008	35	Screw	CBA2283
16	Plate/GND	CND6061	36	Set Screw	CBA2284
17	Barrier/FFC	CNN3694	37	Screw	PMB40P080FCC
18	Barrier/TR	CNN3695	38	Screw	PMH30P060FCC
19	I-Shield Sheet	CNN3801	39	Screw	PMH30P100FNI
20	Foot	CNW2142	40	Screw	PMH40P180FCC
			41	Screw	PPZ30P080FNI

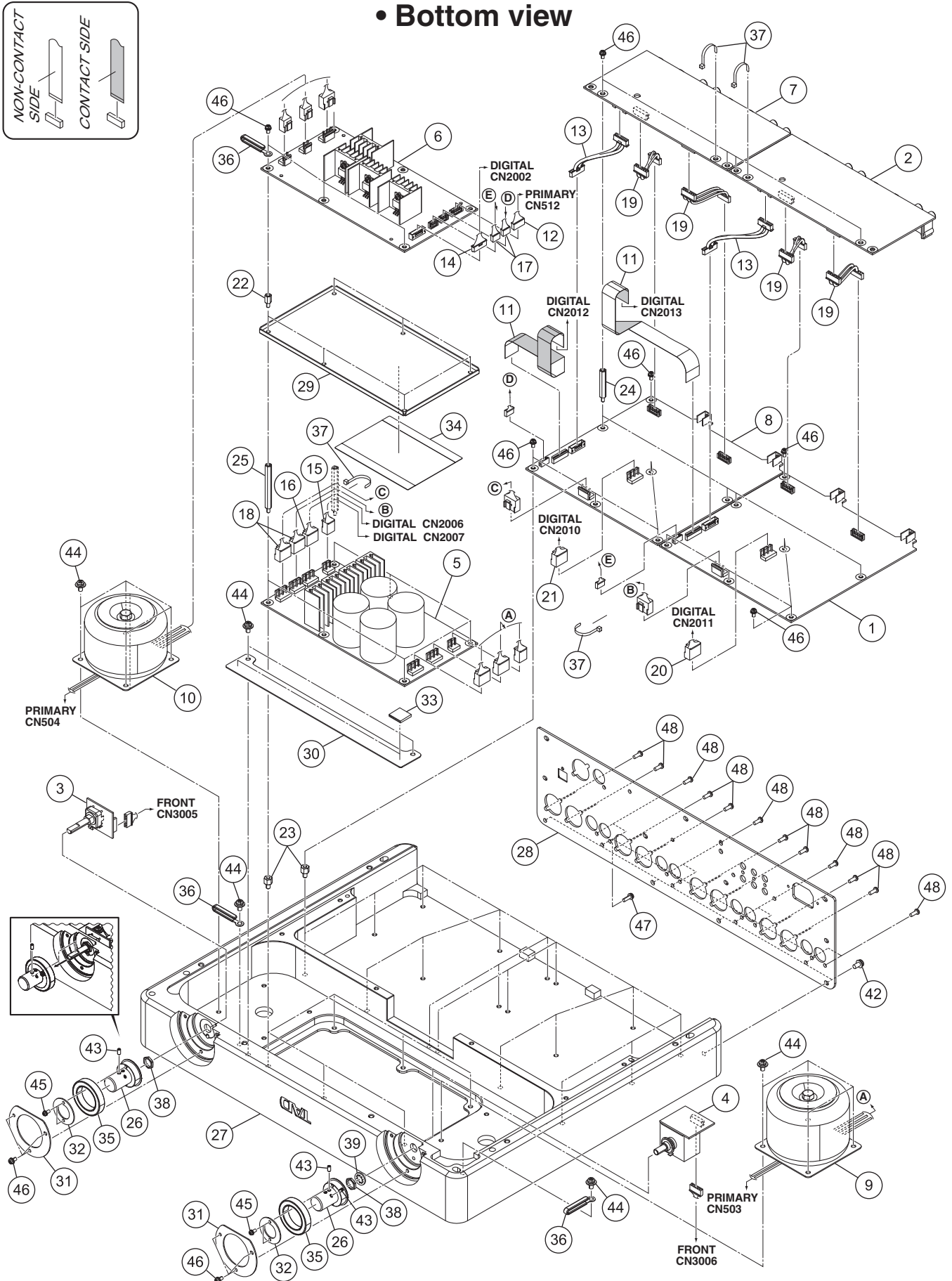
(2) CONTRAST TABLE

TAD-C2000/U and YVL8 are constructed the same except for the following:

<u>Mark</u>	<u>No.</u>	<u>Symbol and Description</u>	<u>TAD-C2000/U</u>	<u>TAD-C2000/YVL8</u>
⚠	4	Power Transformer (T501)	ATT7079	ATT7078

9.3 TOP SECTION

• Bottom view



(1) TOP SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.	
	1 AMP Unit (AUDIO Lch)	CWH1685	26	Shaft/VOL	CLA5012	
	2 AMP Unit (A_IO Lch)	CWH1686	27	Case/TOP	CLA5015	A
	3 AMP Unit (VOLUME)	CWH1696	28	Panel	See Contrast table (2)	
	4 AMP Unit (F_SW)	CWH1697	29	Shield Plate/REG	CND6060	
	5 AMP Unit (AUDIO SECONDARY)	CWH1689	30	Plate/W	CND6134	
	6 AMP Unit (DIGITAL SECONDARY)	CWH1690	31	Plate/BRL	CND6142	
	7 AMP Unit (A_IO Rch)	CWH1686	32	Plate/BRS	CND6143	
	8 AMP Unit (AUDIO Rch)	CWH1687	33	Cushion	CNN3215	
⚠	9 Power Transformer (T1)	See Contrast table (2)	34	I-Shield Sheet	CNN3801	
⚠	10 Power Transformer (T2)	See Contrast table (2)	35	Bearing	CNR2100	
	11 FFC	CDE9191	36	Cord Clamper (Steel)	RNH1005	B
	12 Conn-Cord	CDE9440	37	Binder	ZCA-SKB90BK	
	13 Conn-Cord	CDE9441	38	Nut	NK90FTC	
	14 Conn-Cord	CDE9442	39	Toothed Washer	CBE1064	
	15 Conn-Cord	CDE9443	40	•••••		
	16 Conn-Cord	CDE9444	41	•••••		
	17 Conn-Cord	CDE9445	42	Screw	CBA2283	
	18 Conn-Cord	CDE9446	43	Set Screw	CBA2284	
	19 Conn-Cord	CDE9447	44	Screw	PMB40P080FCC	
	20 Conn-Cord	CDE9448	45	Screw	PMH26P060FTC	C
	21 Conn-Cord	CDE9449	46	Screw	PMH30P060FCC	
	22 Stud	CLA4999	47	Screw	PMH30P100FNI	
	23 Stud	CLA5005	48	Screw	PPZ30P080FNI	
	24 Stud	CLA5008				
	25 Stud	CLA5011				

(2) CONTRAST TABLE

TAD-C2000/U and YVL8 are constructed the same except for the following:

Mark	No.	Symbol and Description	TAD-C2000/U	TAD-C2000/YVL8
⚠	9	Power Transformer (T1)	CTT1194	CTT1195
⚠	10	Power Transformer (T2)	CTT1197	CTT1198
	28	Panel/RUS	CNB3730	Not used
	28	Panel/REZ	Not used	CNB3731

1 2 3 4

9.4 FRONT SECTION

A

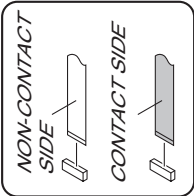
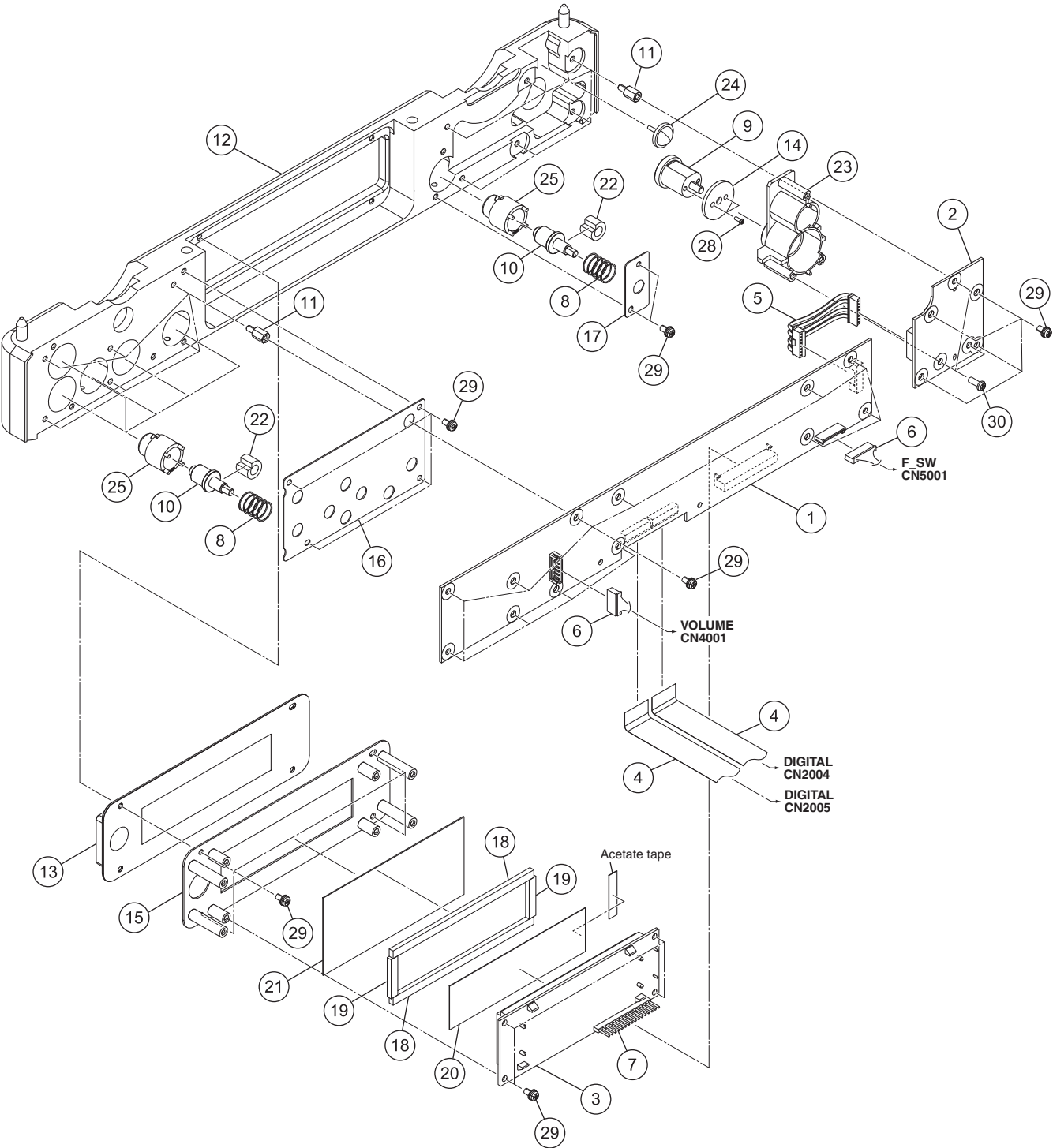
B

C

D

E

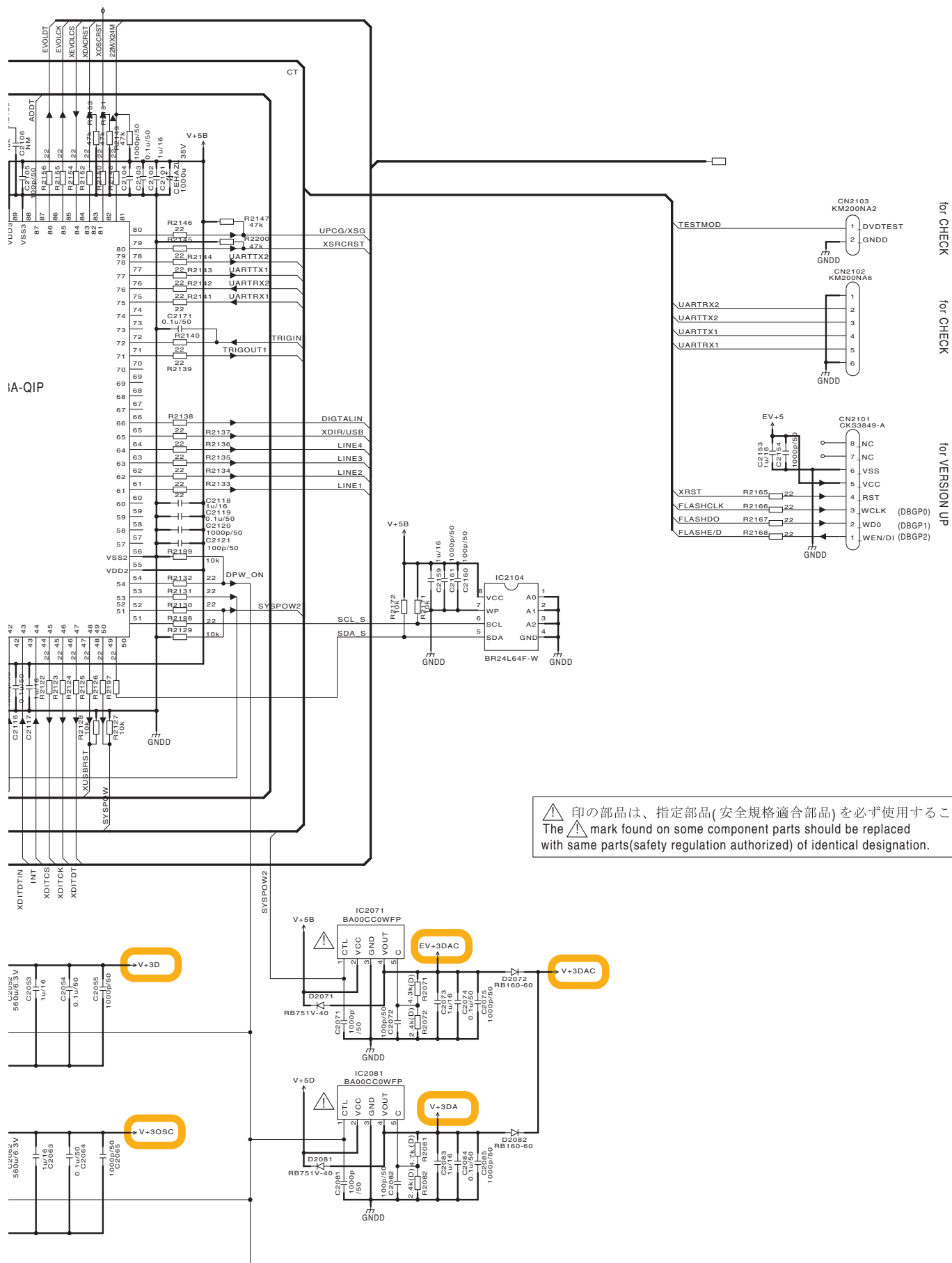
F



FRONT SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	
1	AMP Unit (FRONT)	CWH1692	
2	PSWB Unit	CWH1695	A
3	Segment LCD	CAW2015	
4	FFC	CDE9439	
5	Conn-Cord	CDE9441	
6	Conn-Cord	CDE9447	
7	B To B Connector	CKS6345	
8	Coil Spring/F	CBH3092	
9	Button	CLA4946	
10	Button/FNC	CLA4995	
11	Stud	CLA4999	B
12	Panel/F	CLA5016	
13	Panel/D	CLM1019	
14	Cap	CND5671	
15	Holder/D	CND6000	
16	Plate/L	CND6058	
17	Plate/S	CND6059	
18	Cushion/L	CNN3575	
19	Cushion/S	CNN3576	
20	Optical Filter	CNN3691	C
21	Display Filter	CNN3692	
22	Cushion/BTN	CNN3827	
23	Cover	CNW1867	
24	Lens	CNW2000	
25	Holder/BTN	CNW2131	
26	•••••		
27	•••••		
28	Screw	PMH26P060FTC	
29	Screw	PMH30P060FCC	D
30	Screw	PPZ30P080FNI	





4



A



C

D

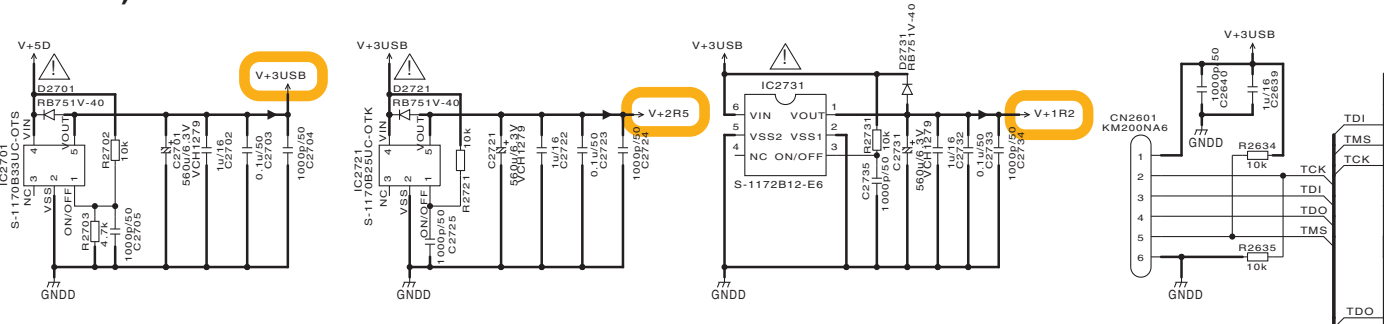
E

F

10.3 DIGITAL UNIT (3/4)

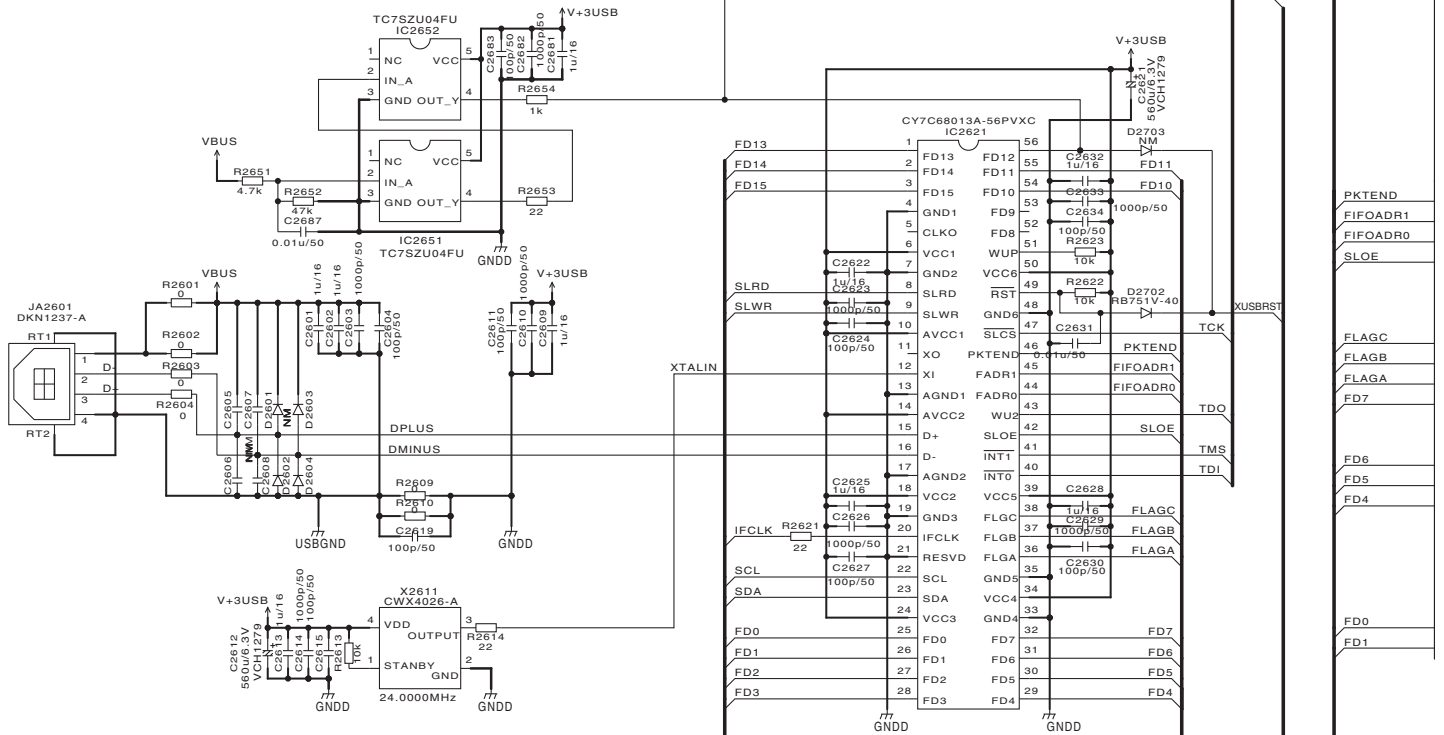
DIGITAL UNIT (3/4) (CWH1693)

A

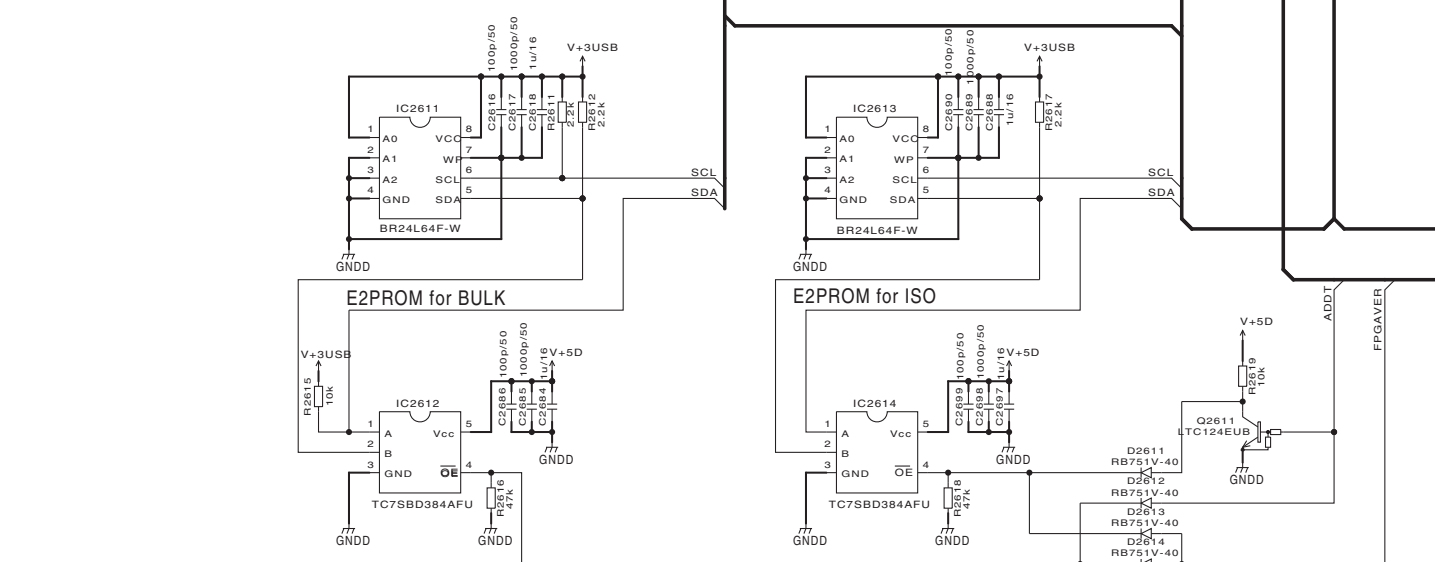


B

C



D



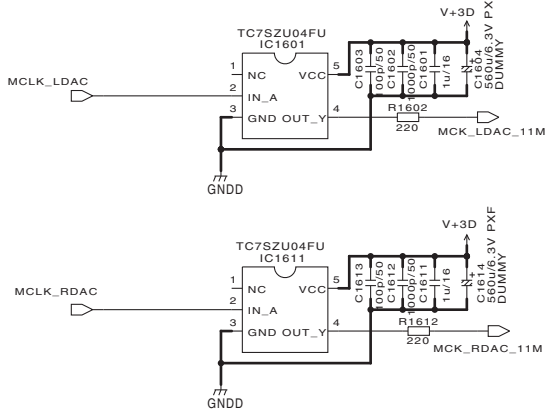
E

F

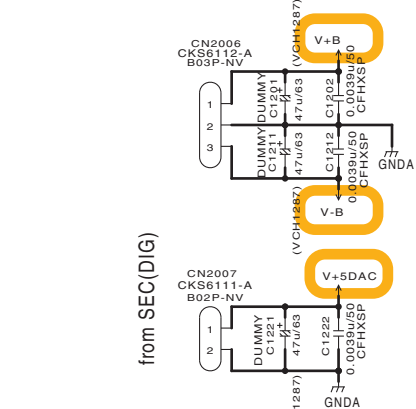
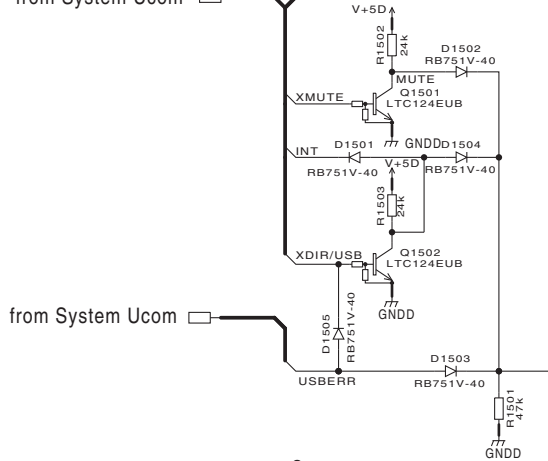
10.4 DIGITAL UNIT (4/4)

DIGITAL UNIT (4/4) (CWH1693)

from SRC



from System Ucom



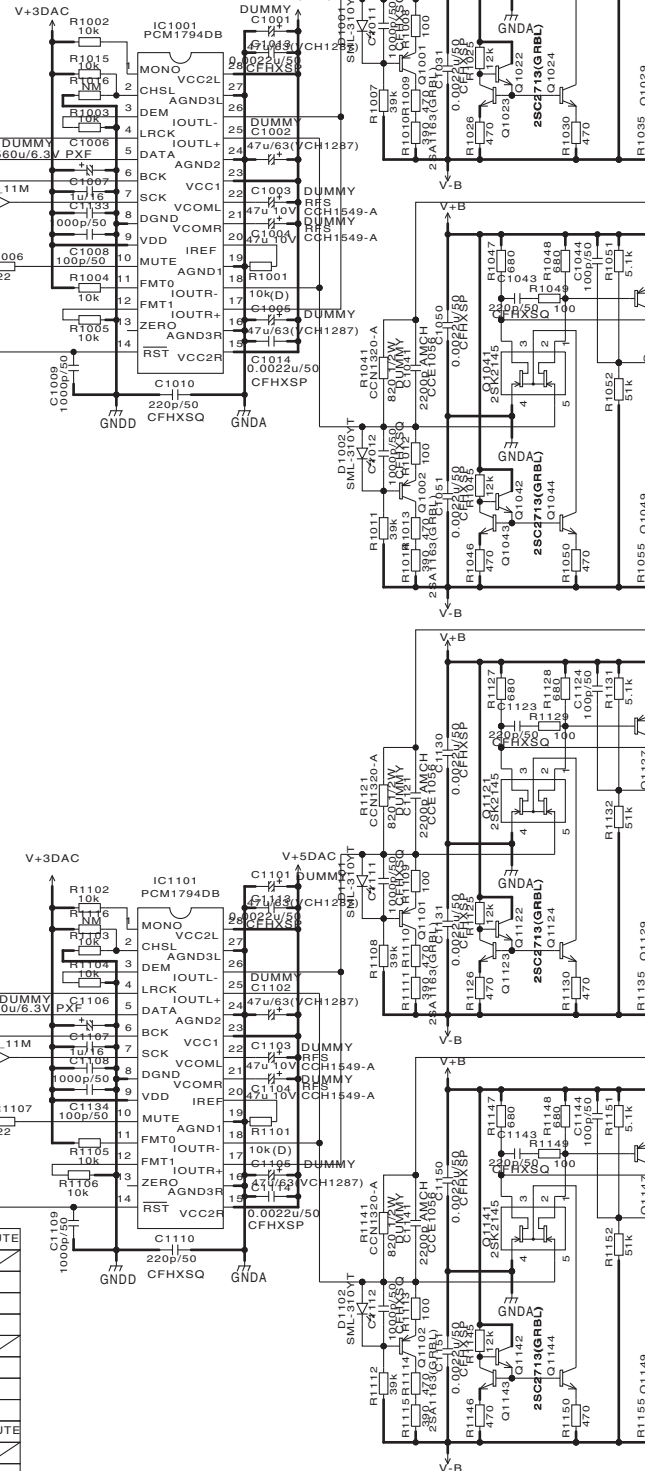
SYSMUTE				
XDIR/USB	INT	USBOUT	XMUTE	SYSMUTE
0	0	0	0	0
0	0	0	1	0
0	0	1	0	0
0	0	1	1	0
0	1	0	0	0
0	1	0	1	0
0	1	1	0	0
0	1	1	1	0
1	0	0	0	1
1	0	0	1	1
1	0	1	0	1
1	0	1	1	1
1	1	0	0	1
1	1	0	1	1
1	1	1	0	1
1	1	1	1	1

MONO(pin1) CH SEL(pin2)

Stereo	0	Left ch	0
Mono	1	Right ch	1

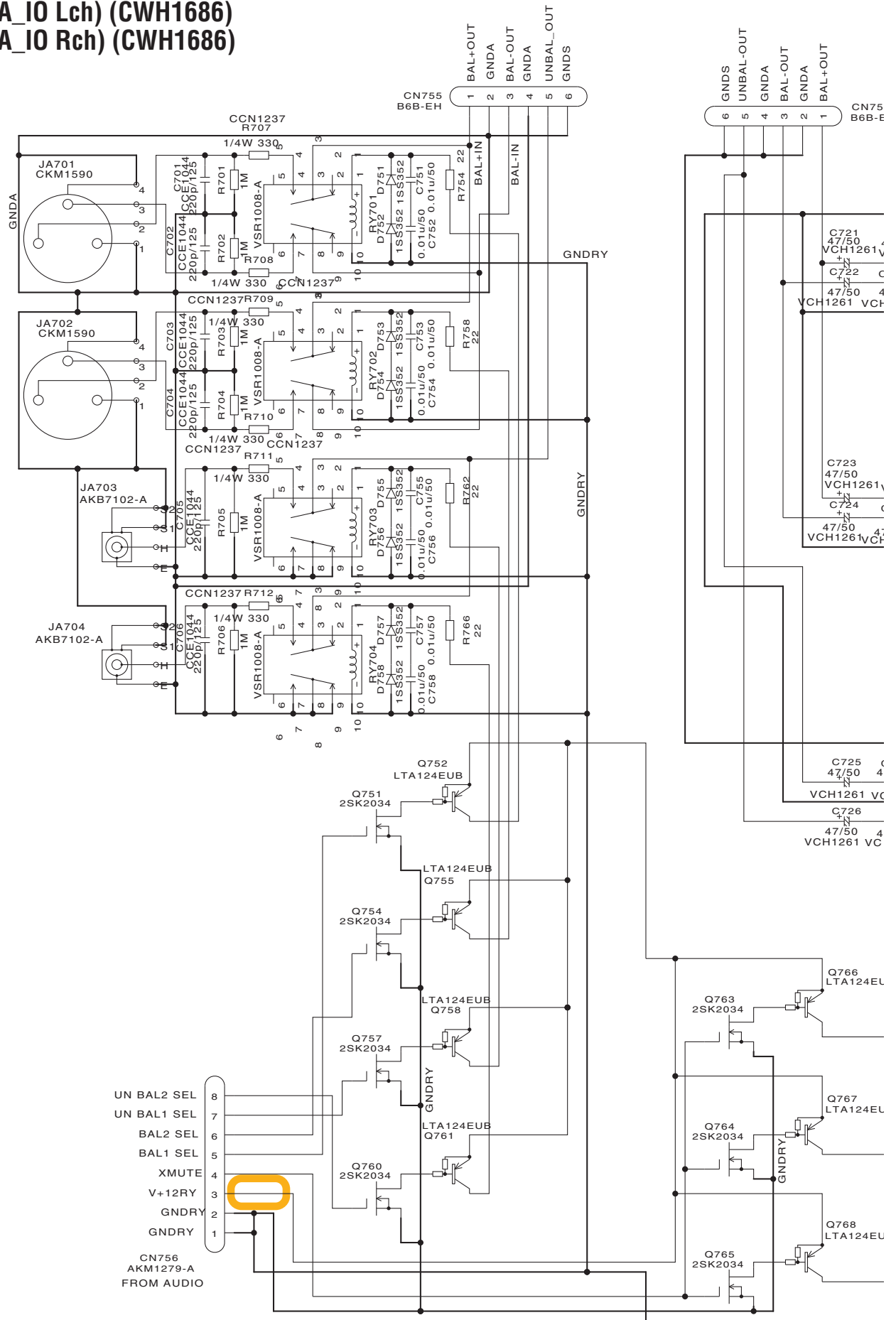
FORMAT

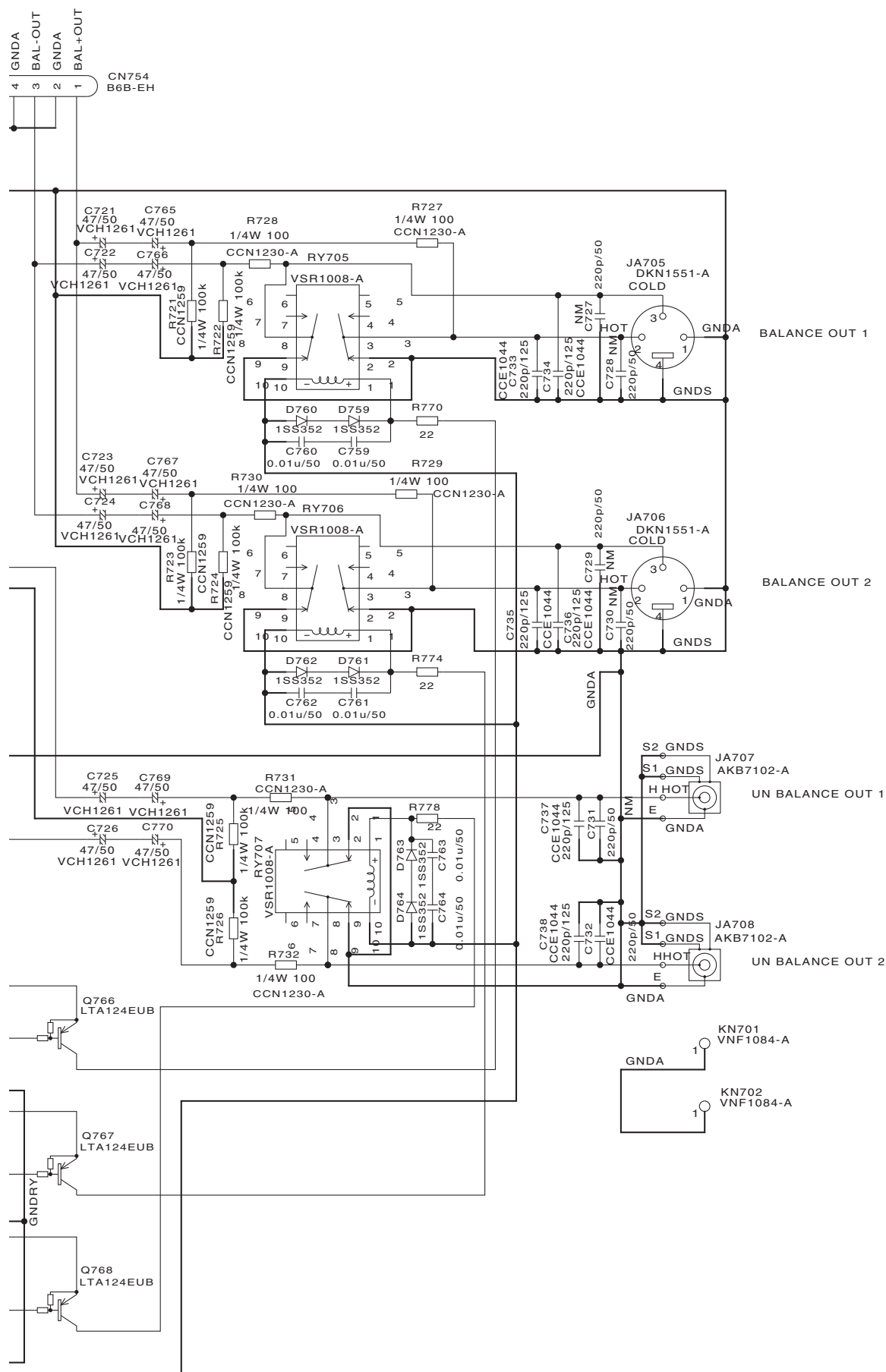
FMT1 (pin12)	FMT0 (pin11)	FORMAT
0	0	I2S
0	1	LJ
1	0	Std16
1	1	Std24



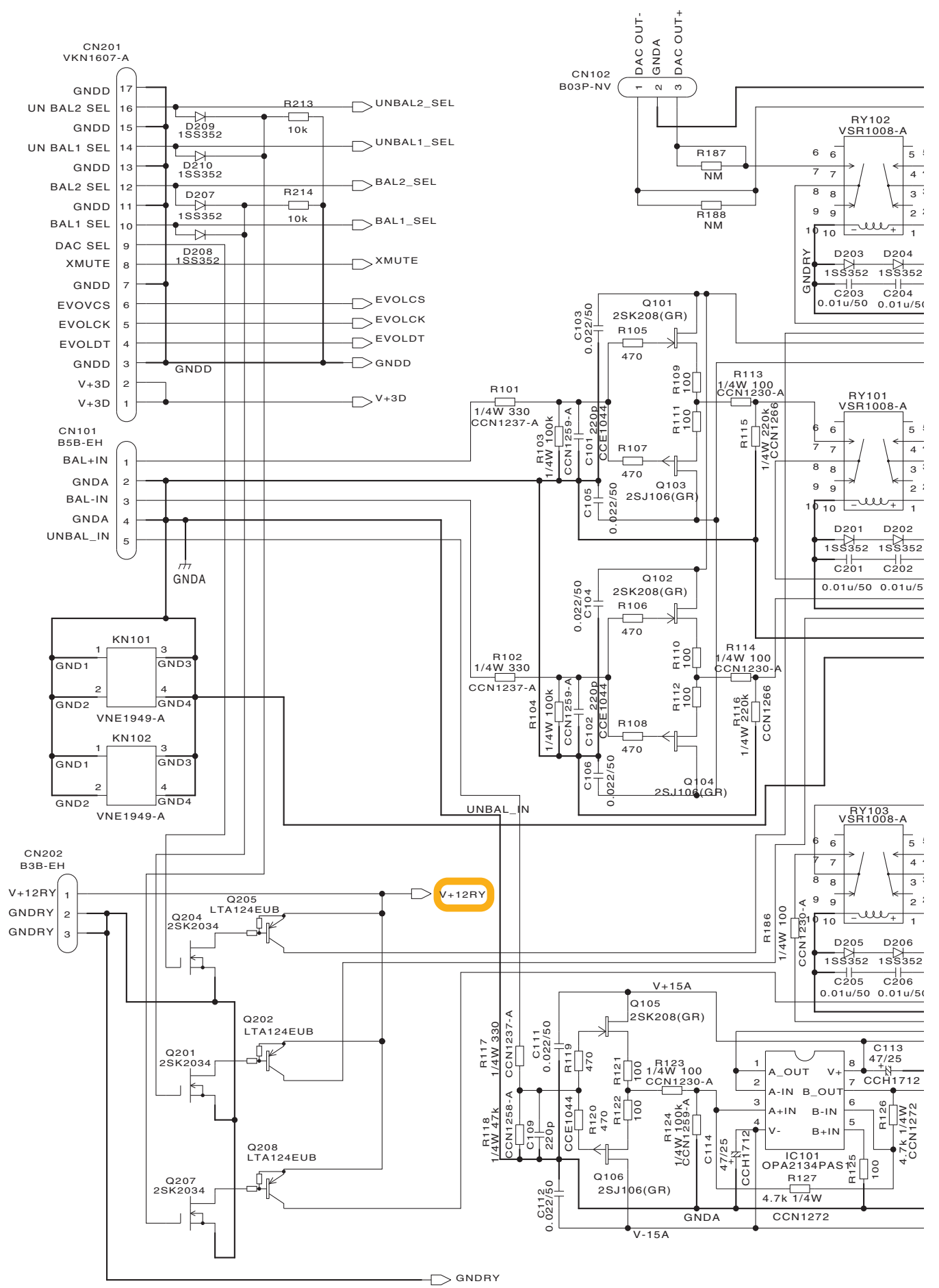
10.5 AMP UNIT (A_IO Lch, Rch)

AMP UNIT (A_IO Lch) (CWH1686)
AMP UNIT (A_IO Rch) (CWH1686)



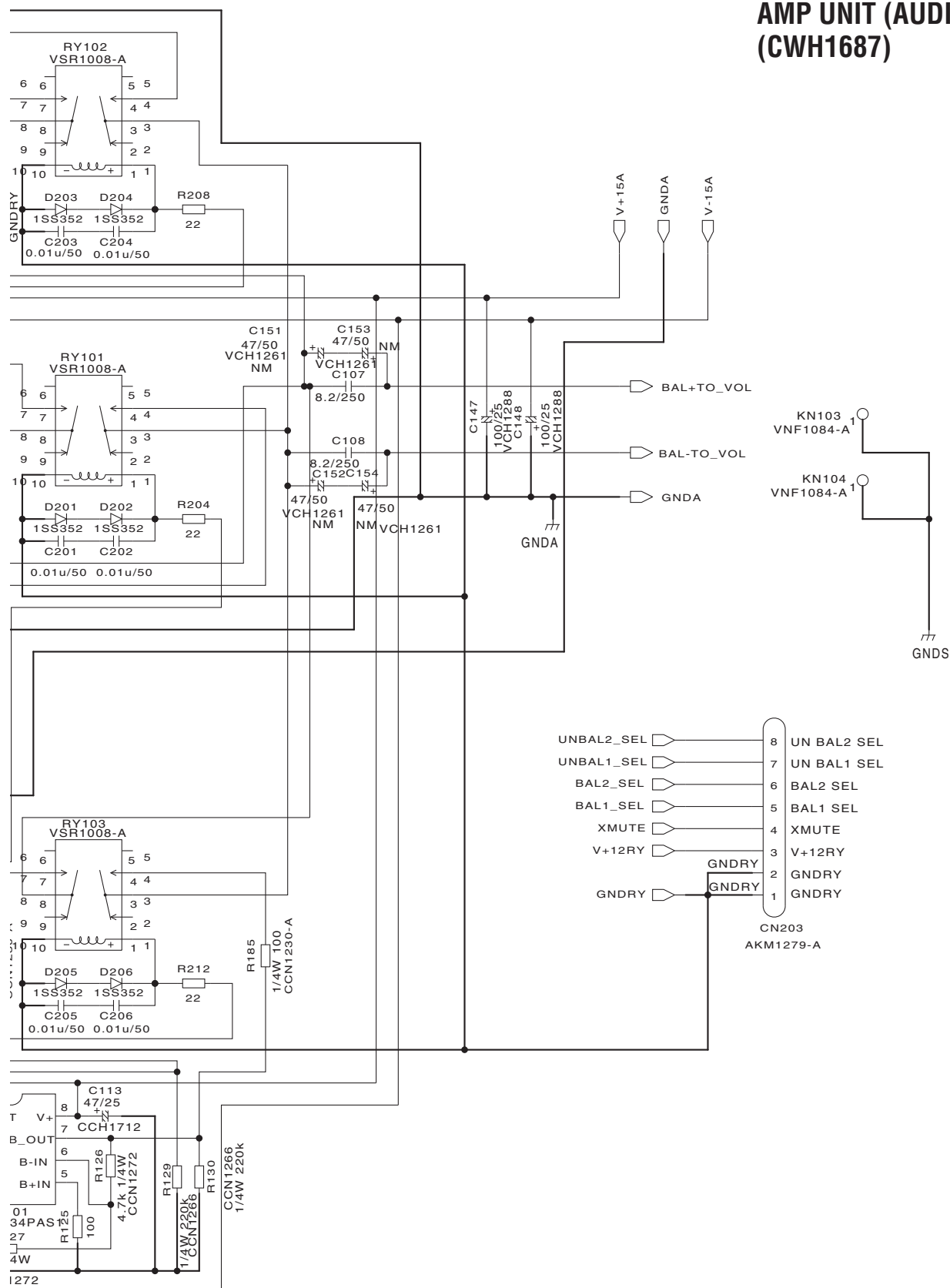


10.6 AMP UNIT (AUDIO Lch, Rch) (1/2)



AMP UNIT (AUDIO Lch) (1/2) (CWH1685)

AMP UNIT (AUDIO Rch) (1/2) (CWH1687)



△

A

B

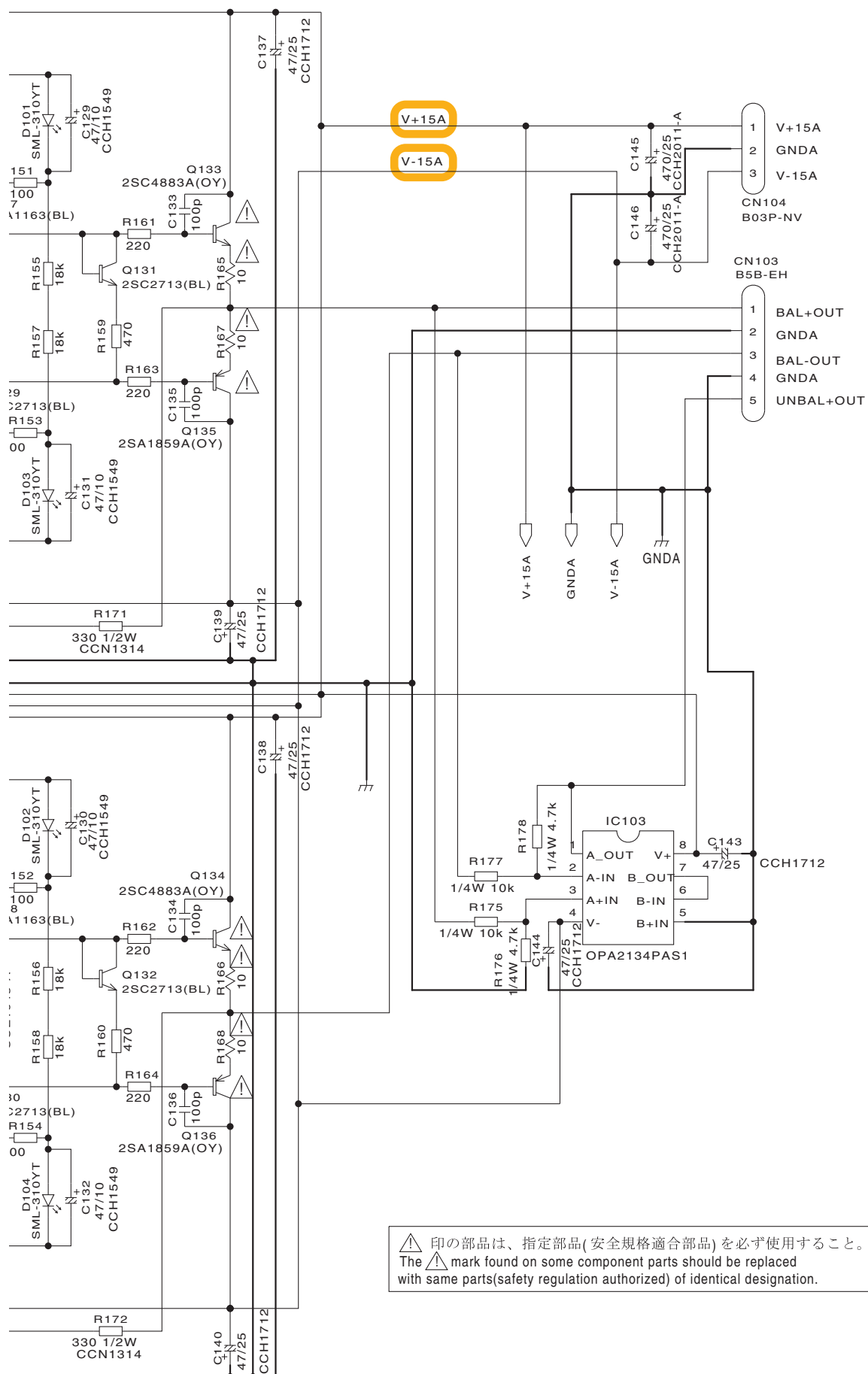
C

D



CWH1687(Rch):R183 NM

CWH1687 ONLY

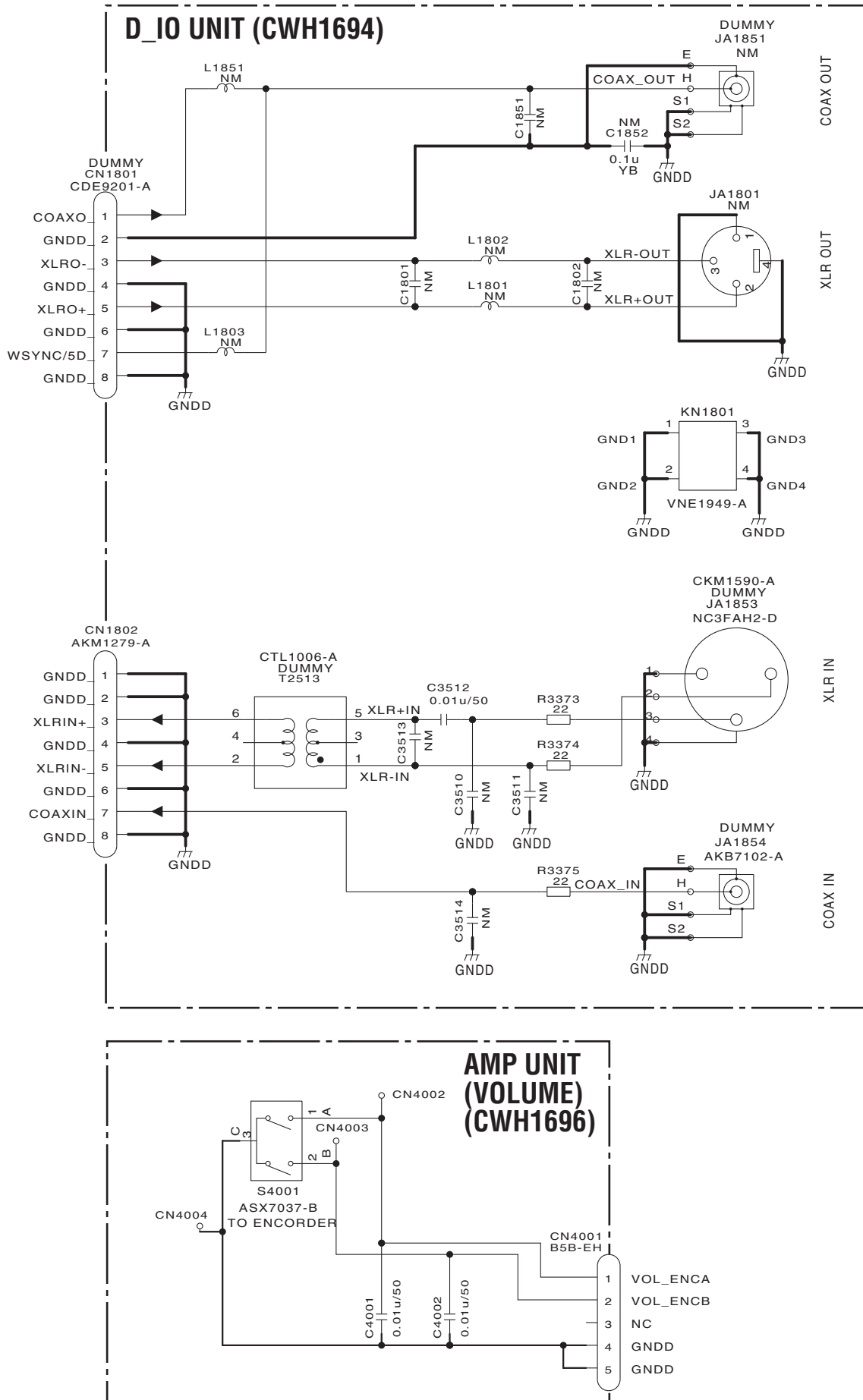


A

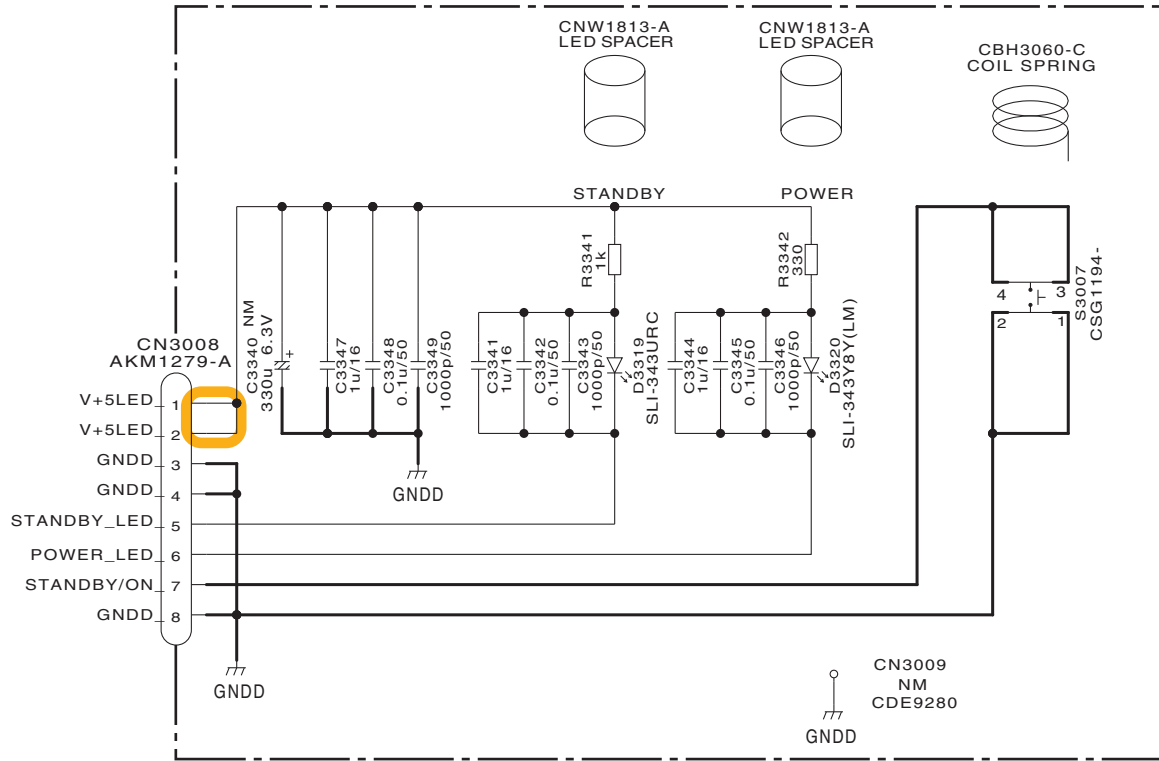




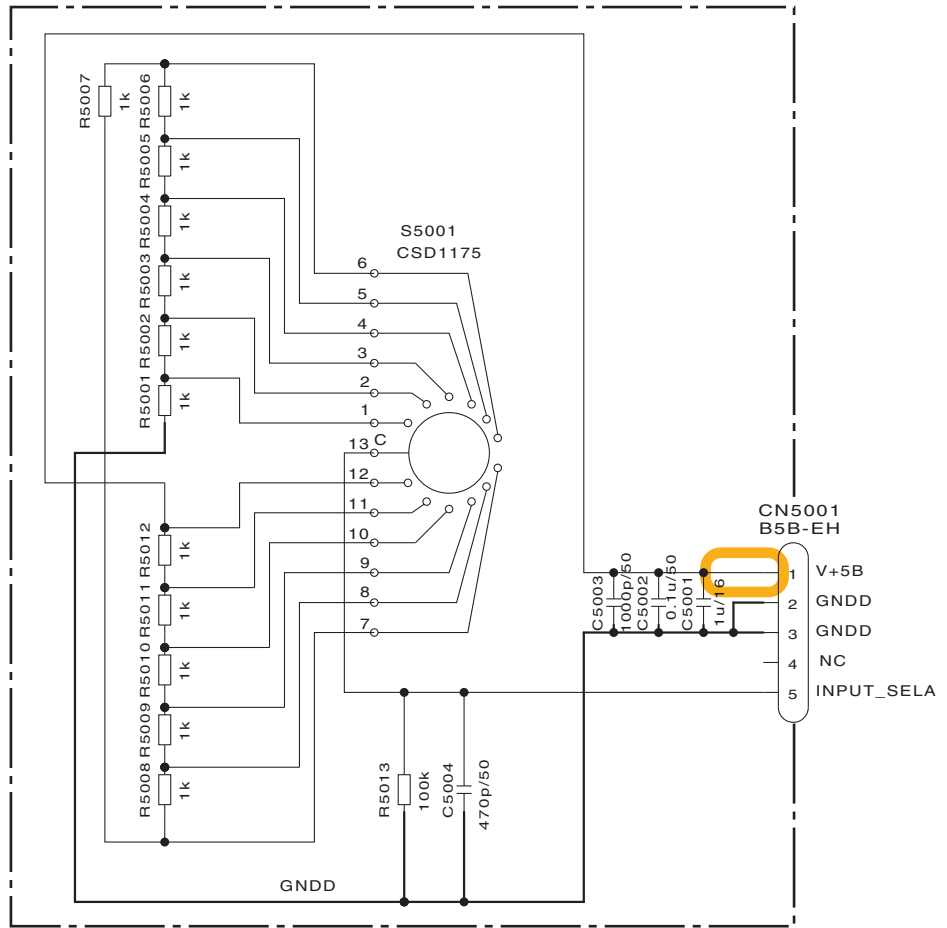
10.9 D_IO UNIT and AMP UNIT (VOLUME)



PSWB UNIT (CWH1695)



AMP UNIT (F_SW) (CWH1697)



△

A



C

D

F

F

10.12 AMP UNIT (DIGITAL SECONDARY)

A

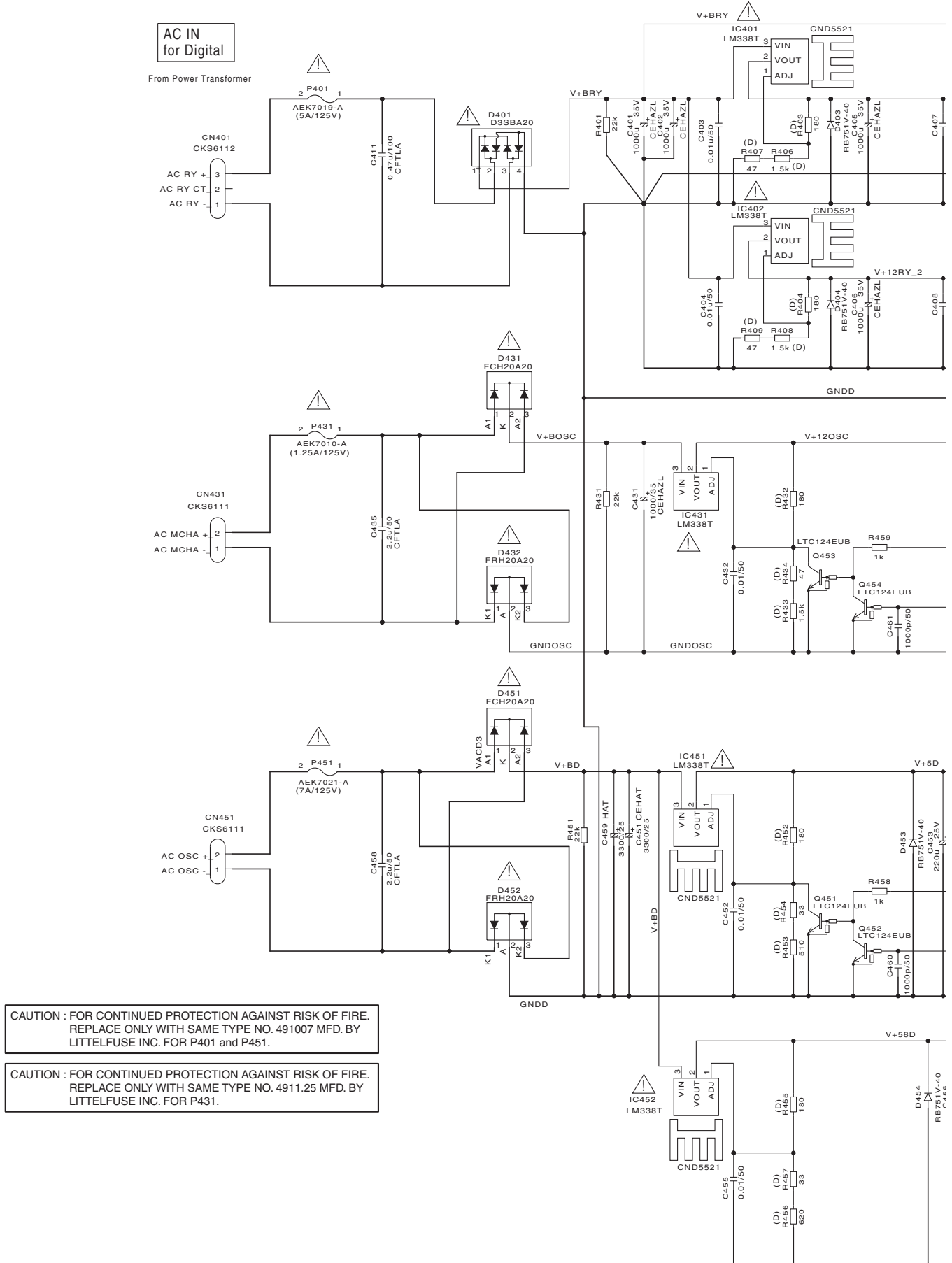
B

C

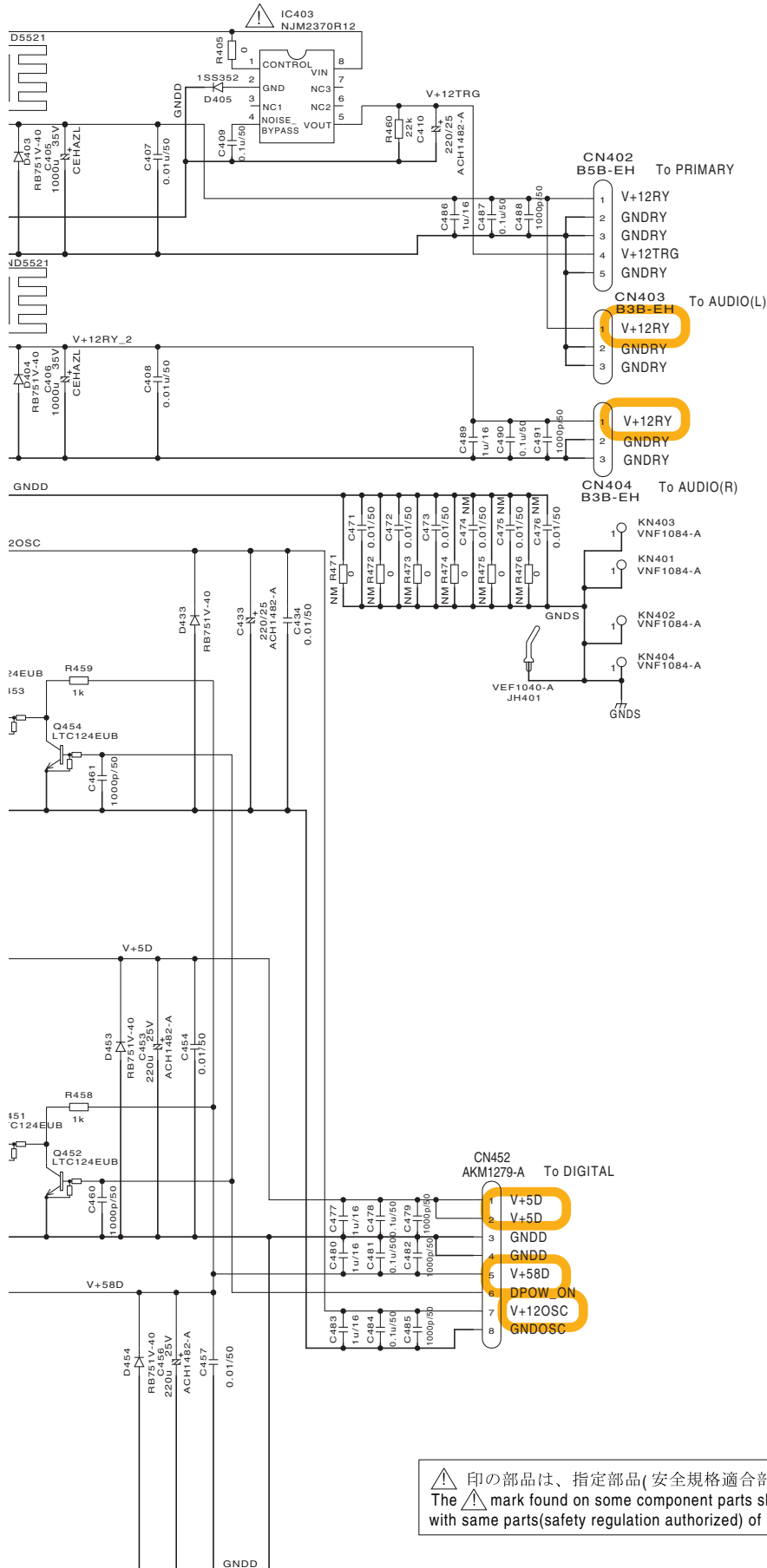
D

E

F



AMP UNIT (DIGITAL SECONDARY) (CWH1690)



△

A

B

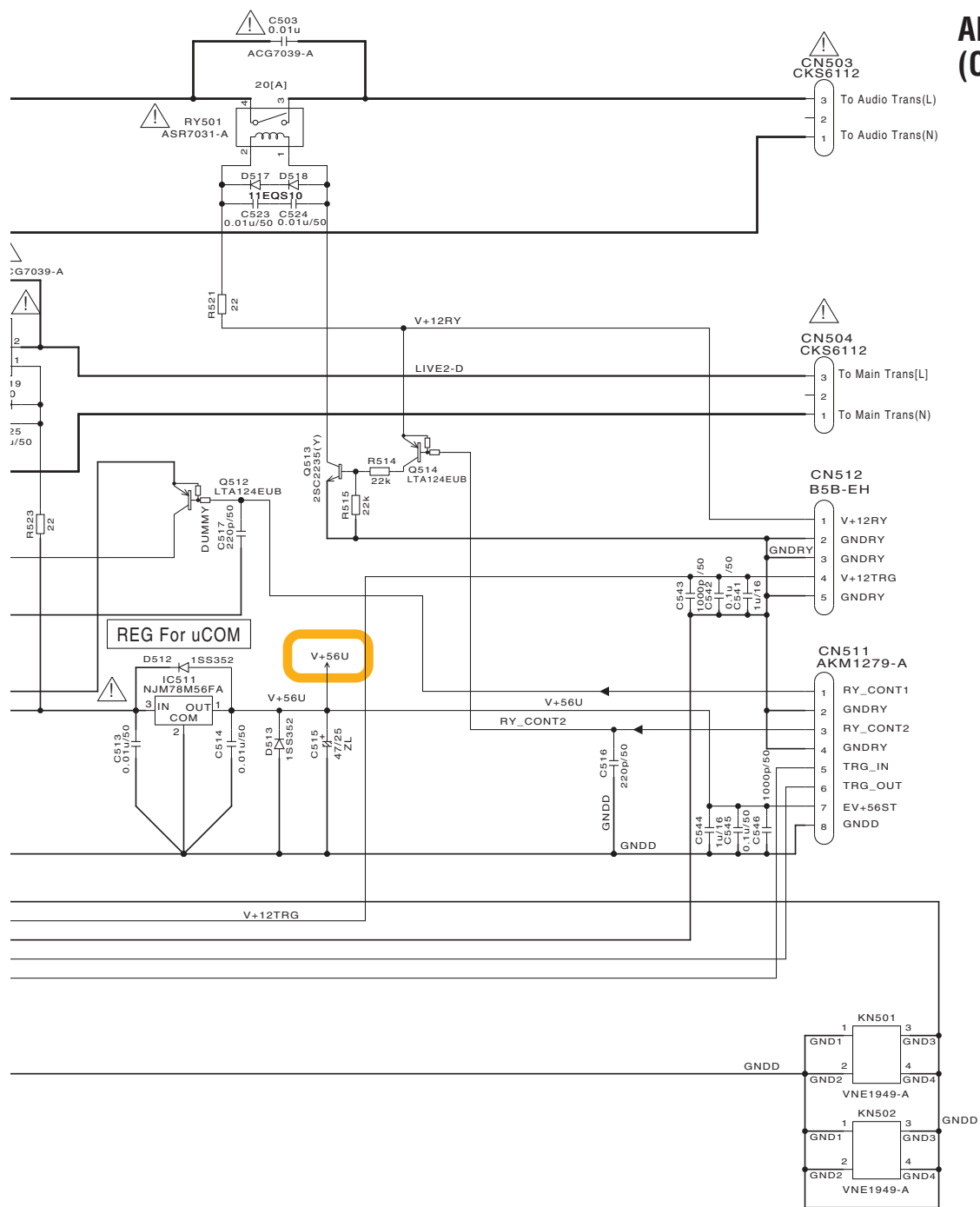


D

E

F

AMP UNIT (PRIMARY) (CWH1691)



印の部品は、指定部品(安全規格適合部品)を必ず使用すること。
The  mark found on some component parts should be replaced
with same parts(safety regulation authorized) of identical designation.

SIDE B

A

B

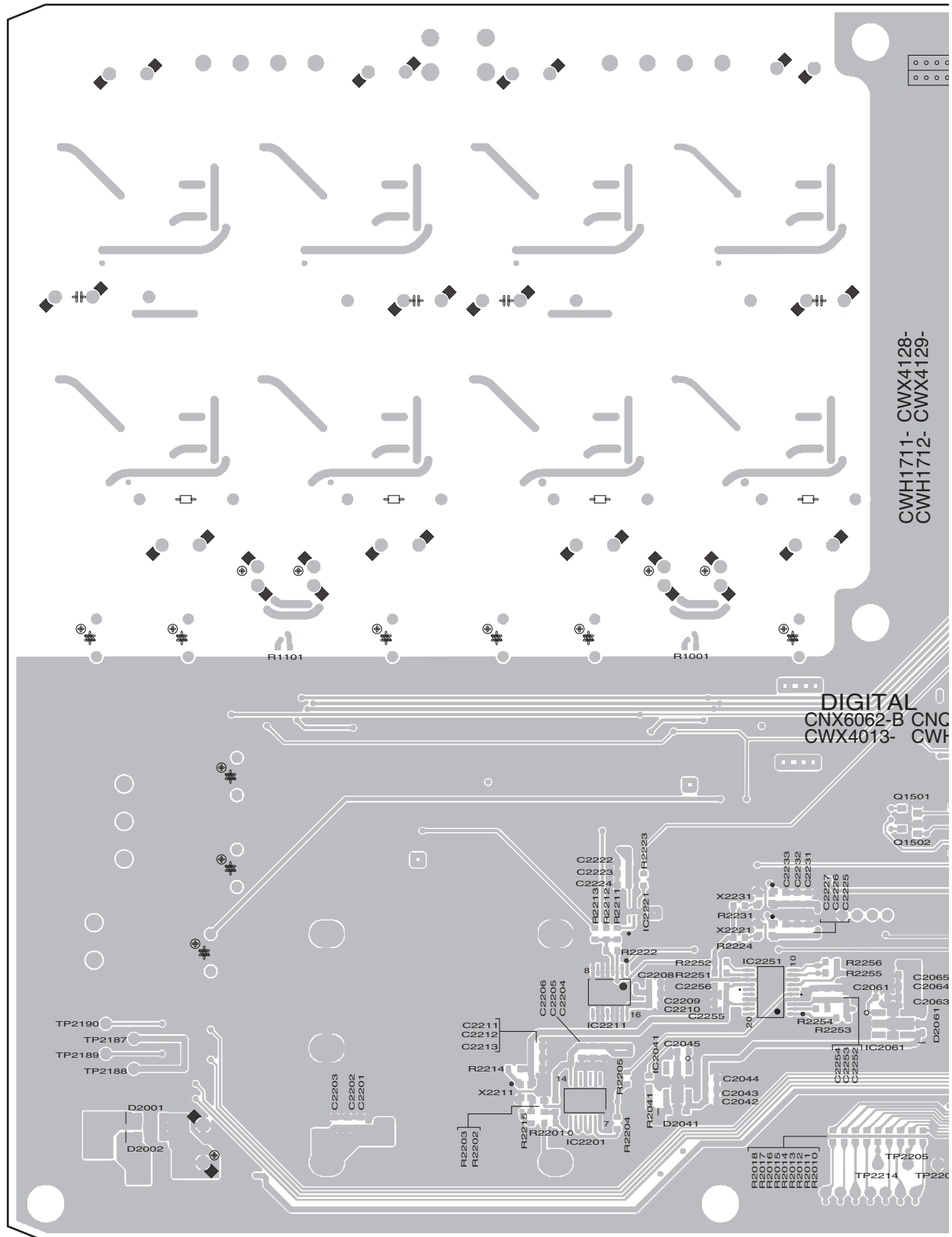
C

D

E

F

DIGITAL UNIT



CWH1711- CWX4128-
CWH1712- CWX4129-

DIGITAL
CNX6062-B CNC
CWX4013- CWH

Q1501
Q1502

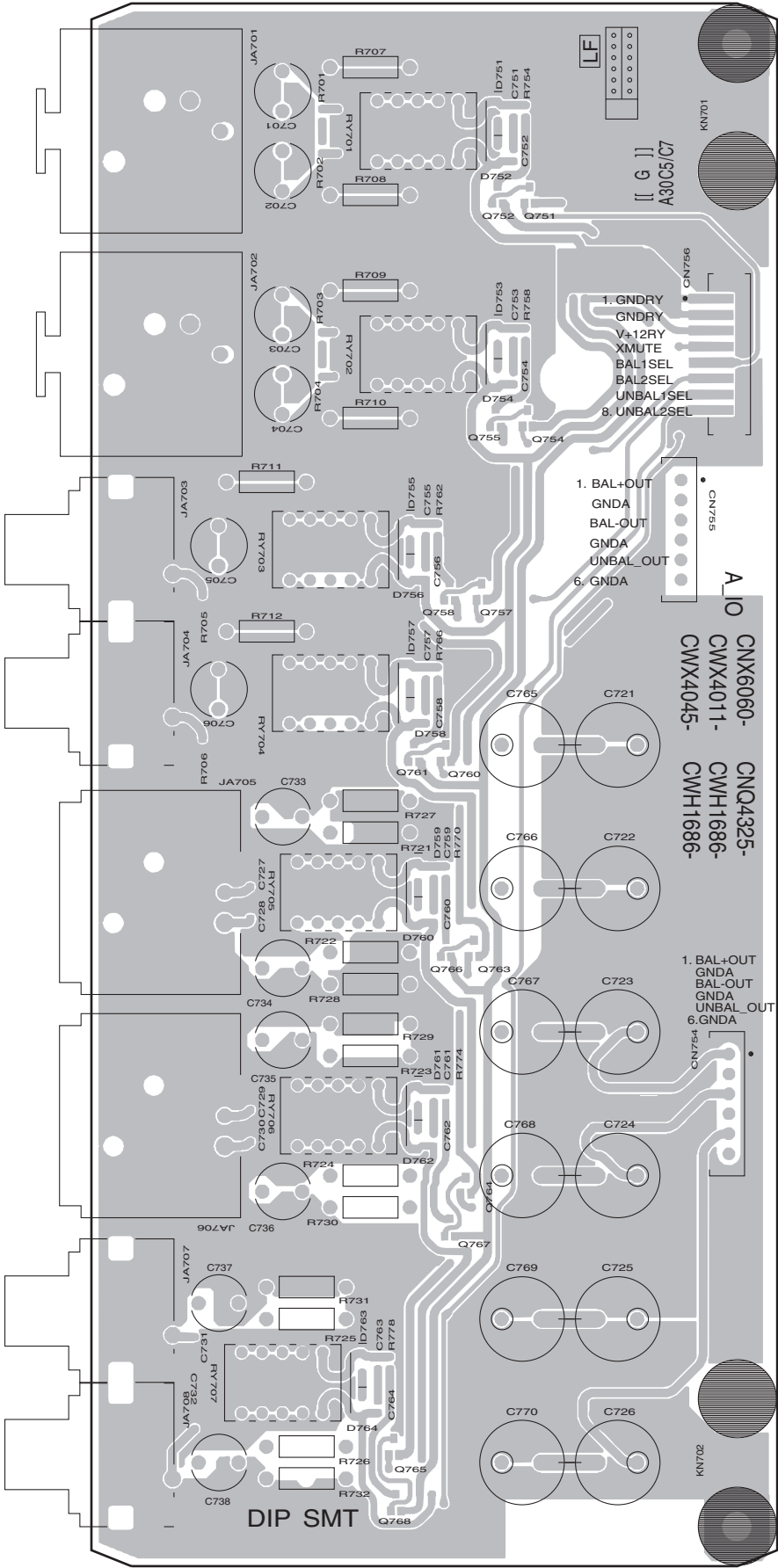
TP2205
TP2214
TP2206

11.2 AMP UNIT (A_IO Lch, Rch)

SIDE A

AMP UNIT (A_IO Lch, Rch)

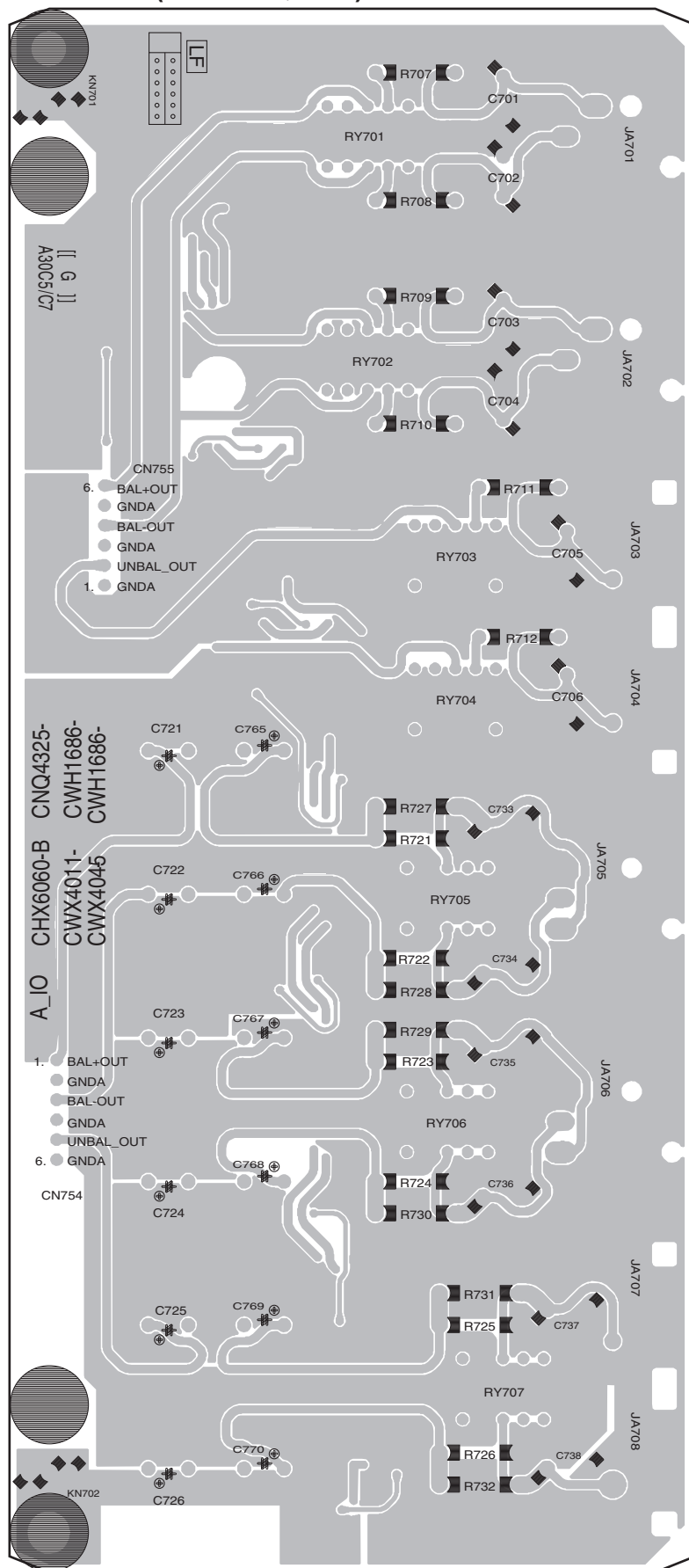
SIDE A



SIDE B

AMP UNIT (A_IO Lch, Rch)

SIDE B



SIDE A

SIDE A

A

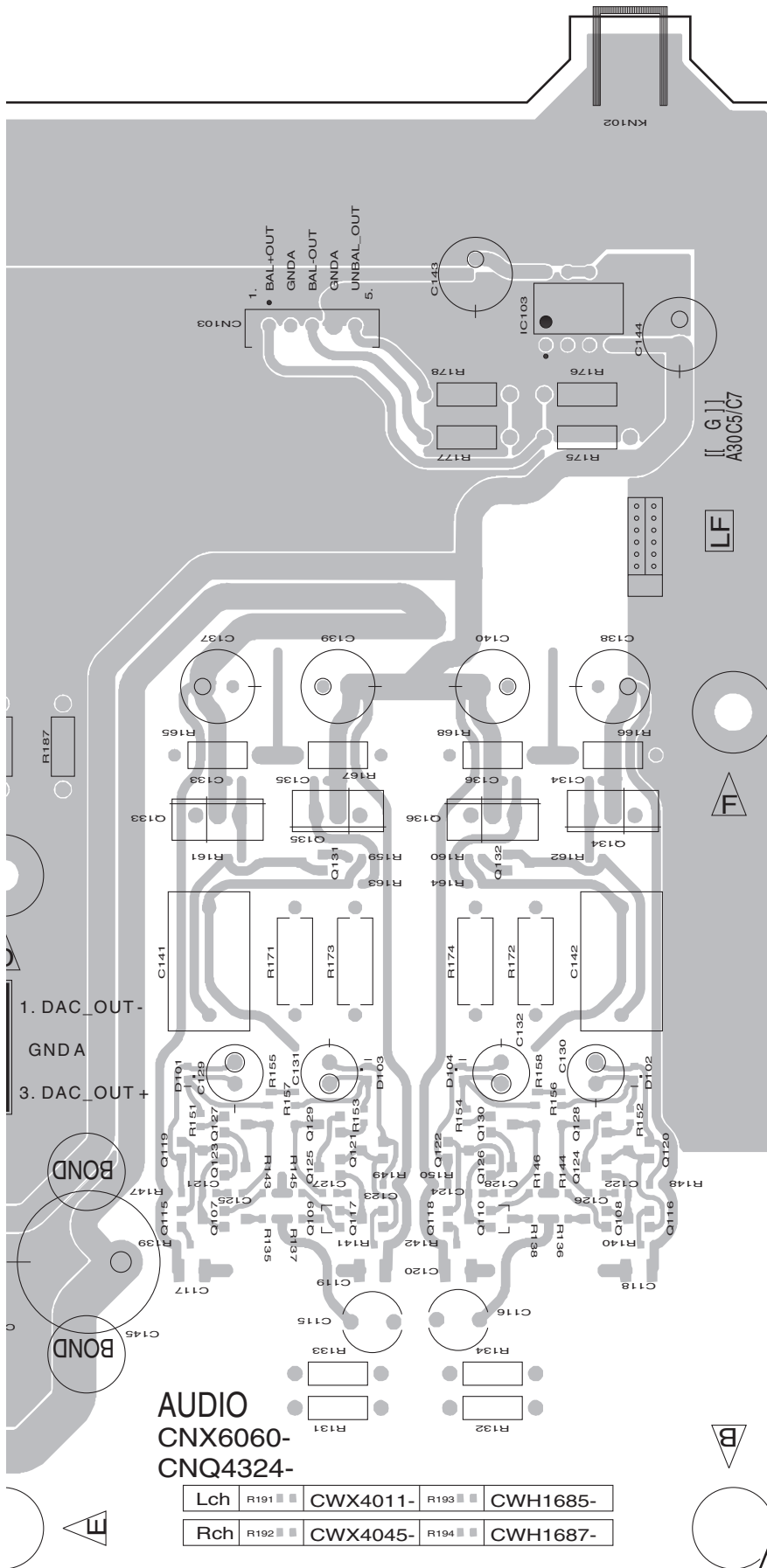
B

C

D

E

F



Lch	R191	CWX4011-	R193	CWH1685-
Rch	R192	CWX4045-	R194	CWH1687-

Rch	R192 ■ ■	CWX4045-	R194 ■ ■	CWH1687-
-----	----------	----------	----------	----------

SIDE B

A

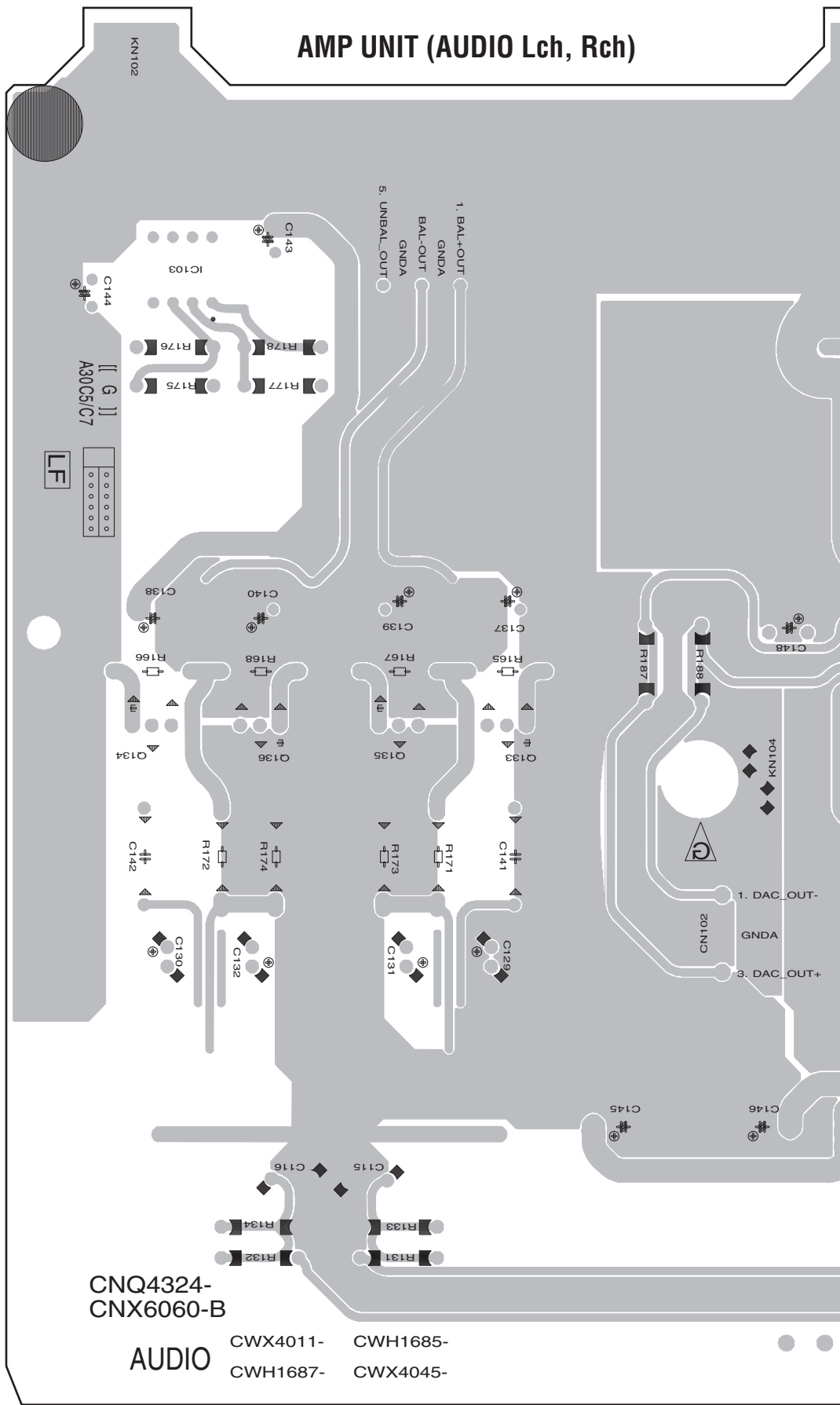
B

C

D

E

F

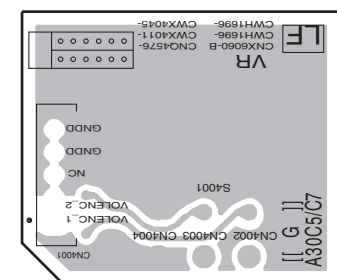


4

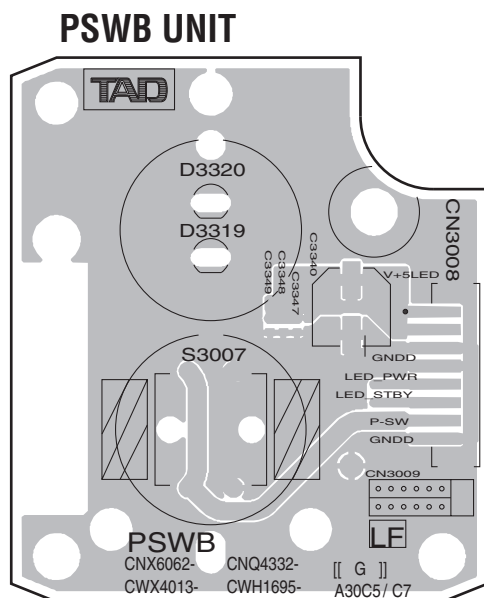
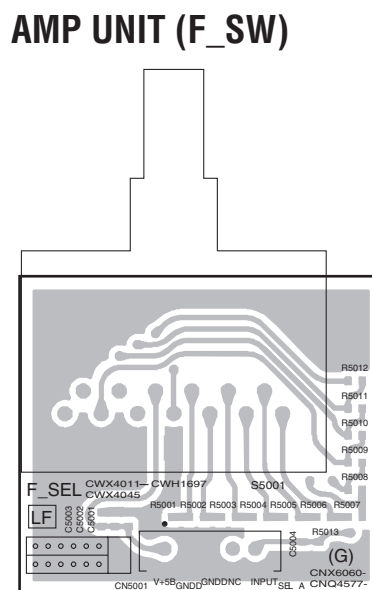
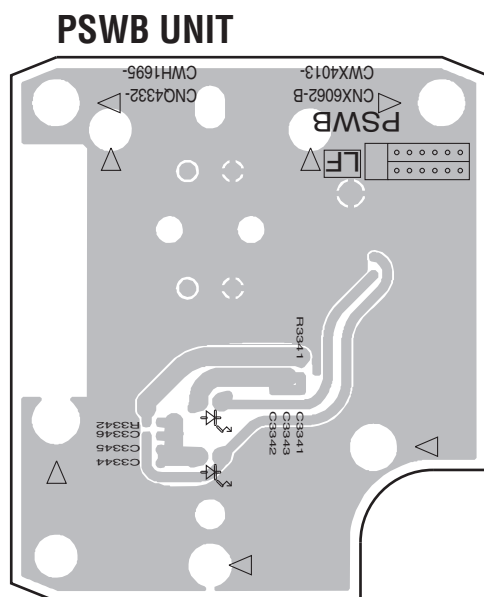
C



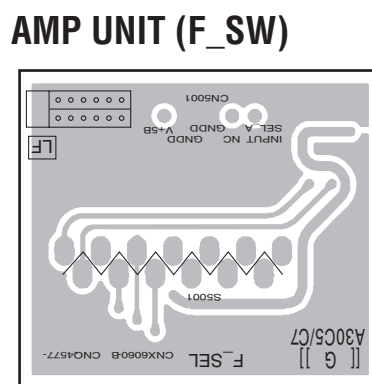
D



11.6 PSWB UNIT and AMP UNIT (F_SW)

SIDE A**SIDE A****SIDE B**

SIDE B

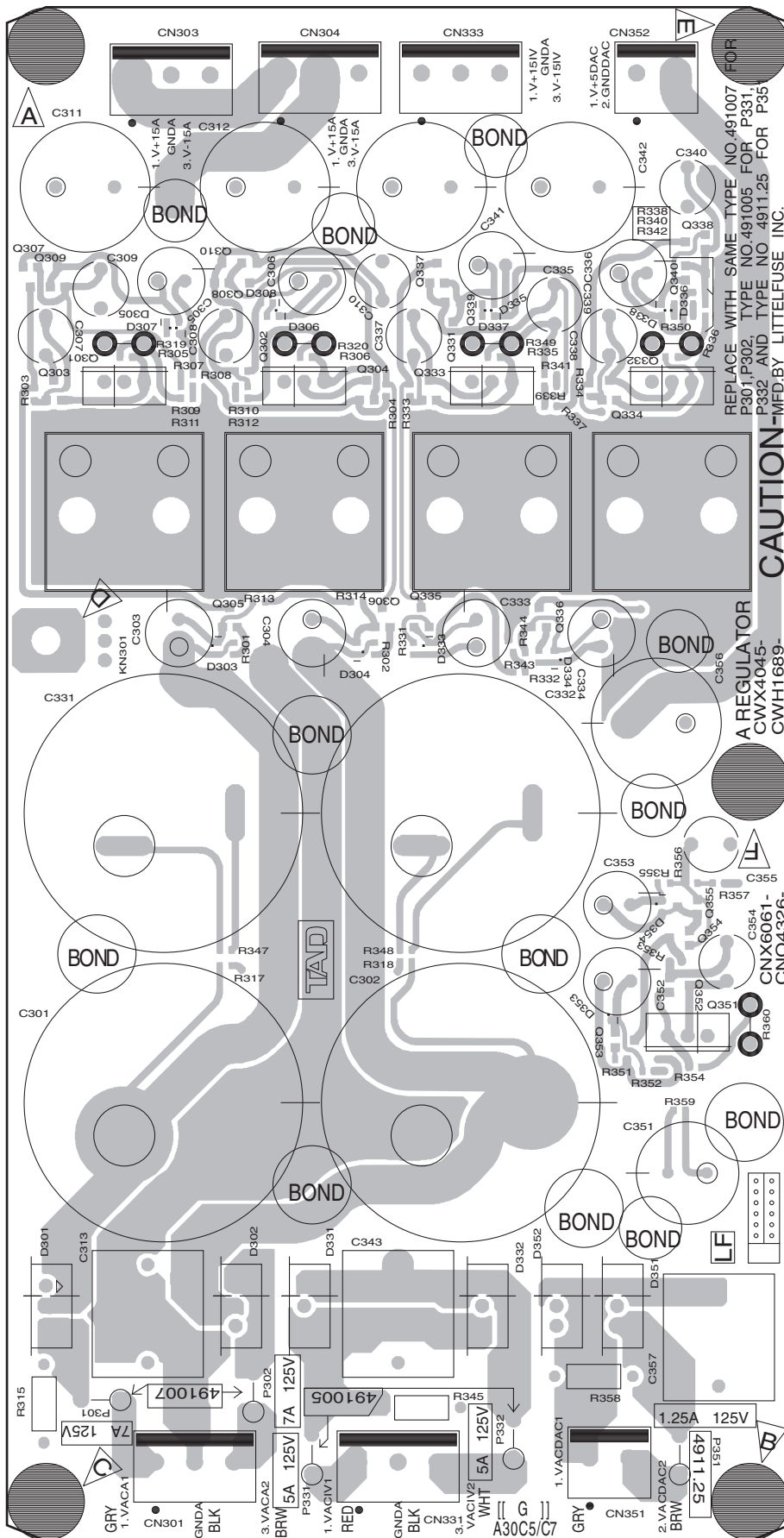


11.7 AMP UNIT (AUDIO SECONDARY)

SIDE A

SIDE A

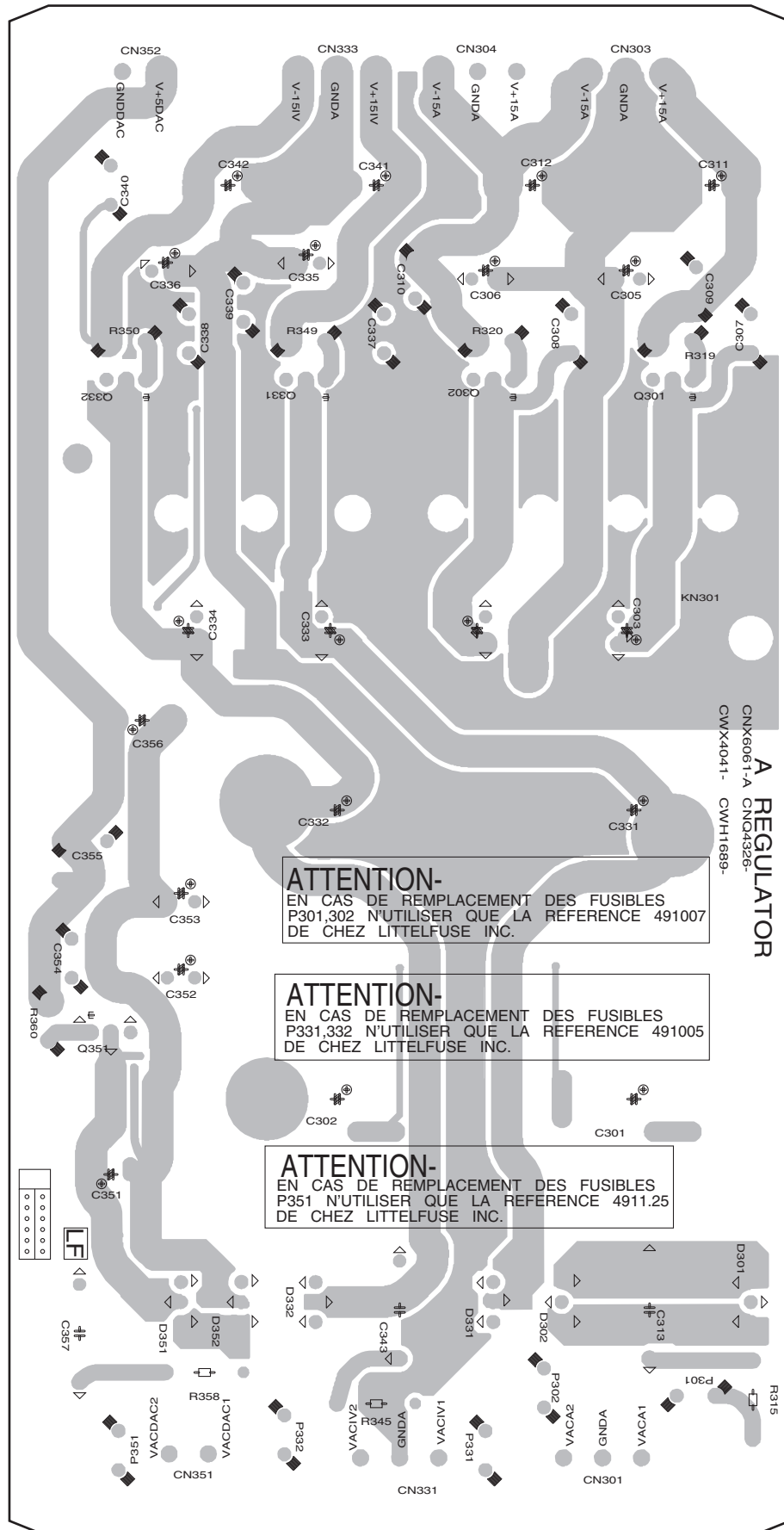
AMP UNIT (AUDIO SECONDARY)



SIDE B

AMP UNIT (AUDIO SECONDARY)

SIDE B

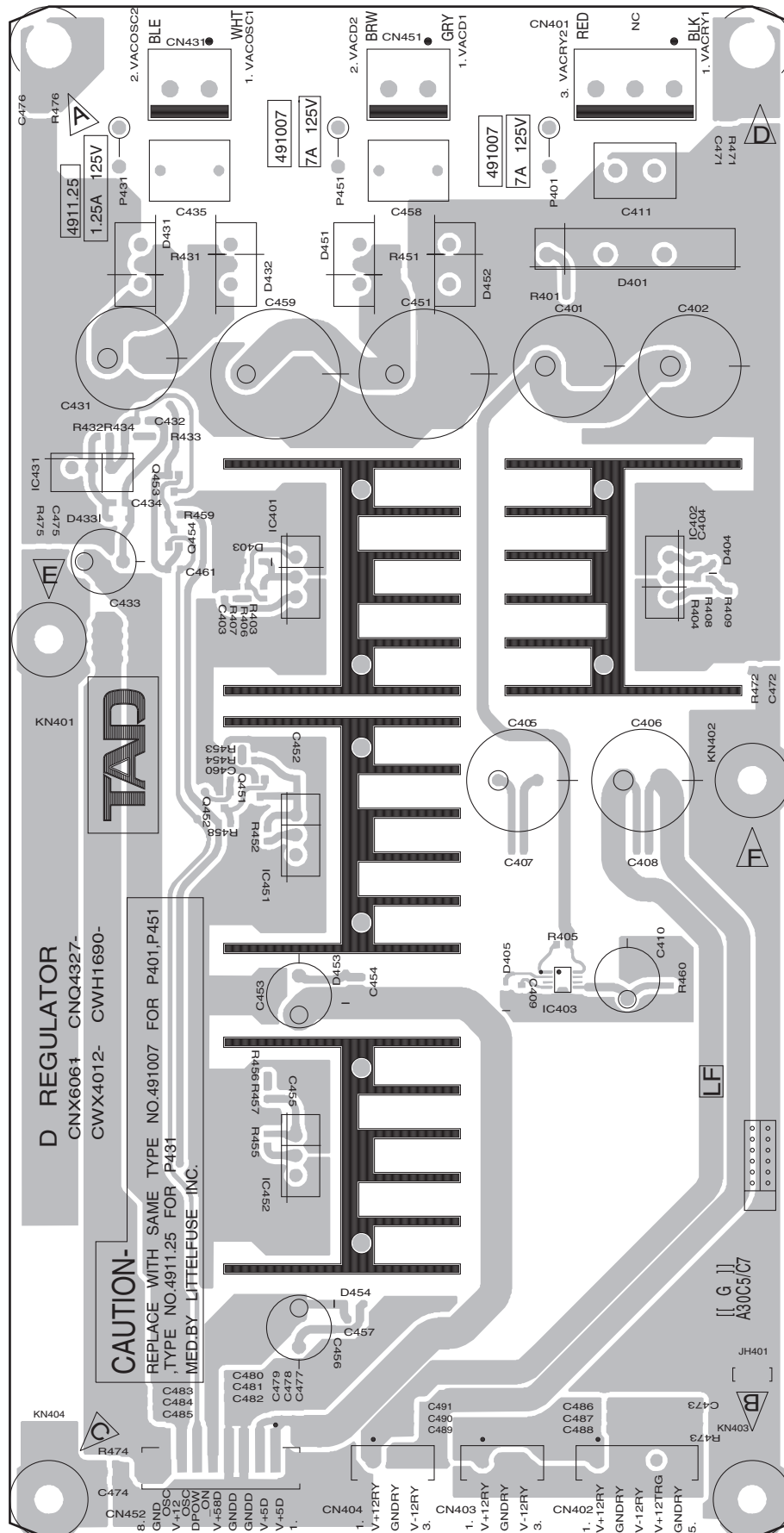


11.8 AMP UNIT (DIGITAL SECONDARY)

SIDE A

AMP UNIT (DIGITAL SECONDARY)

SIDE A

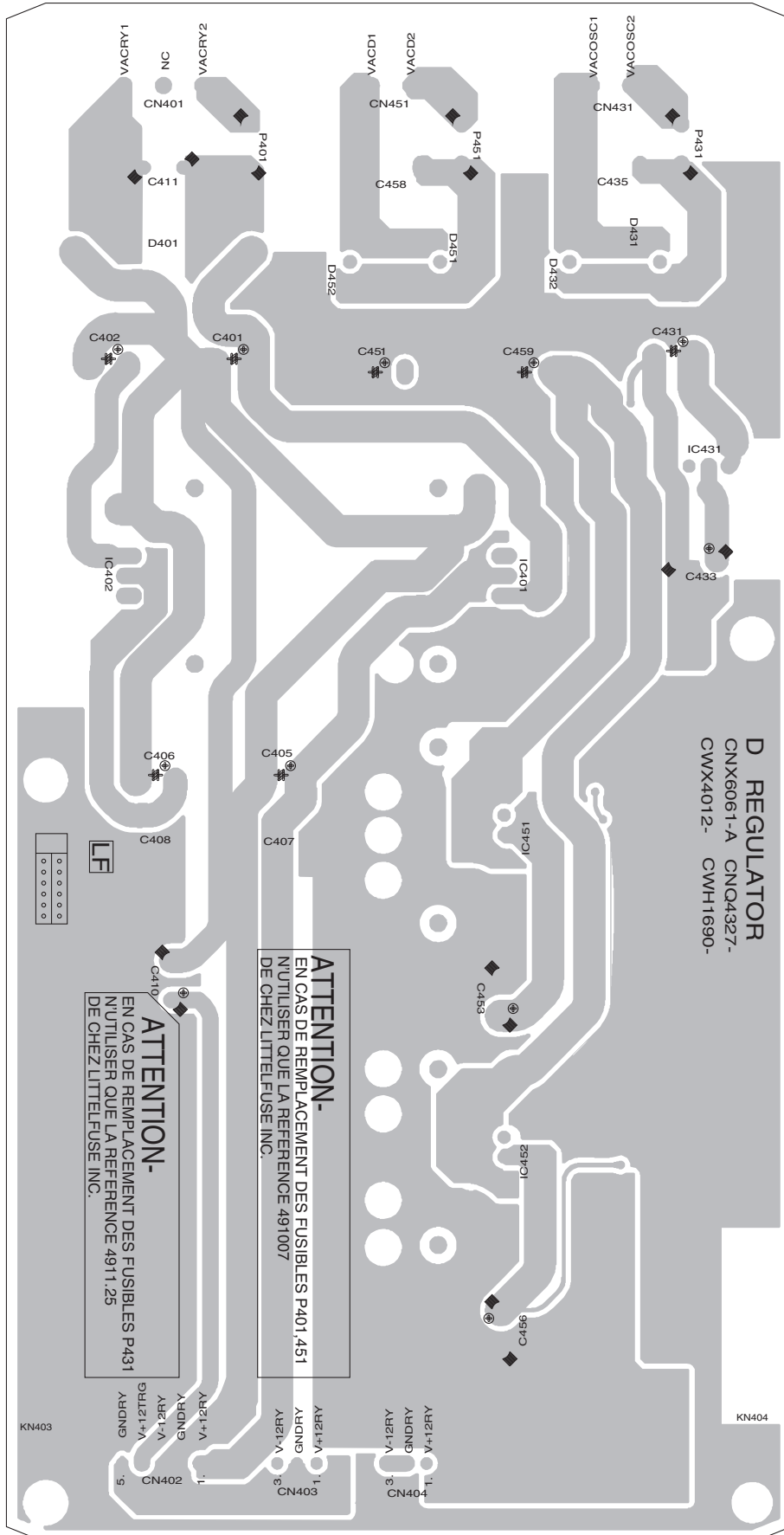


TAD-C2000

SIDE B

AMP UNIT (DIGITAL SECONDARY)

SIDE B

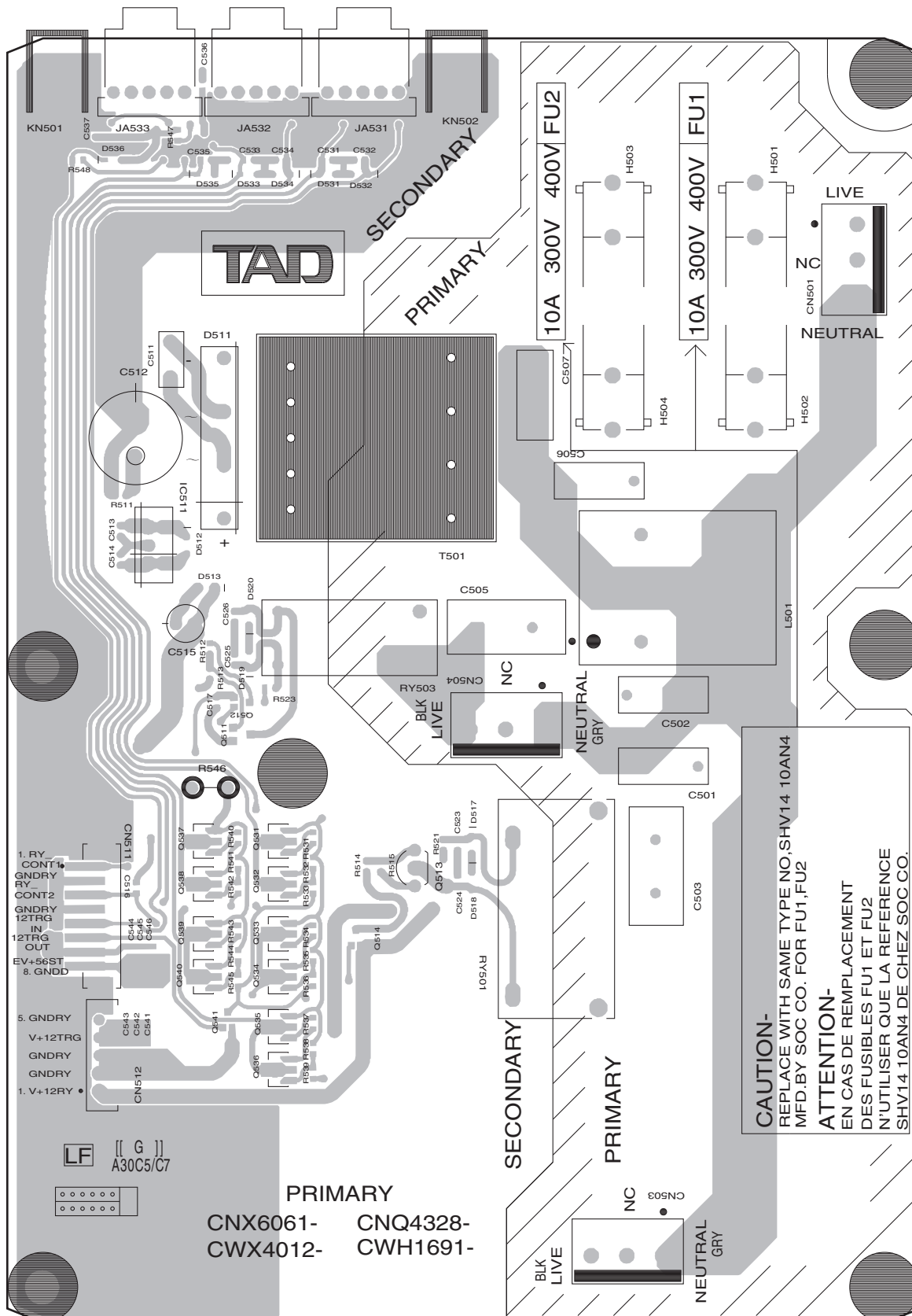


11.9 AMP UNIT (PRIMARY)

SIDE A

SIDE A

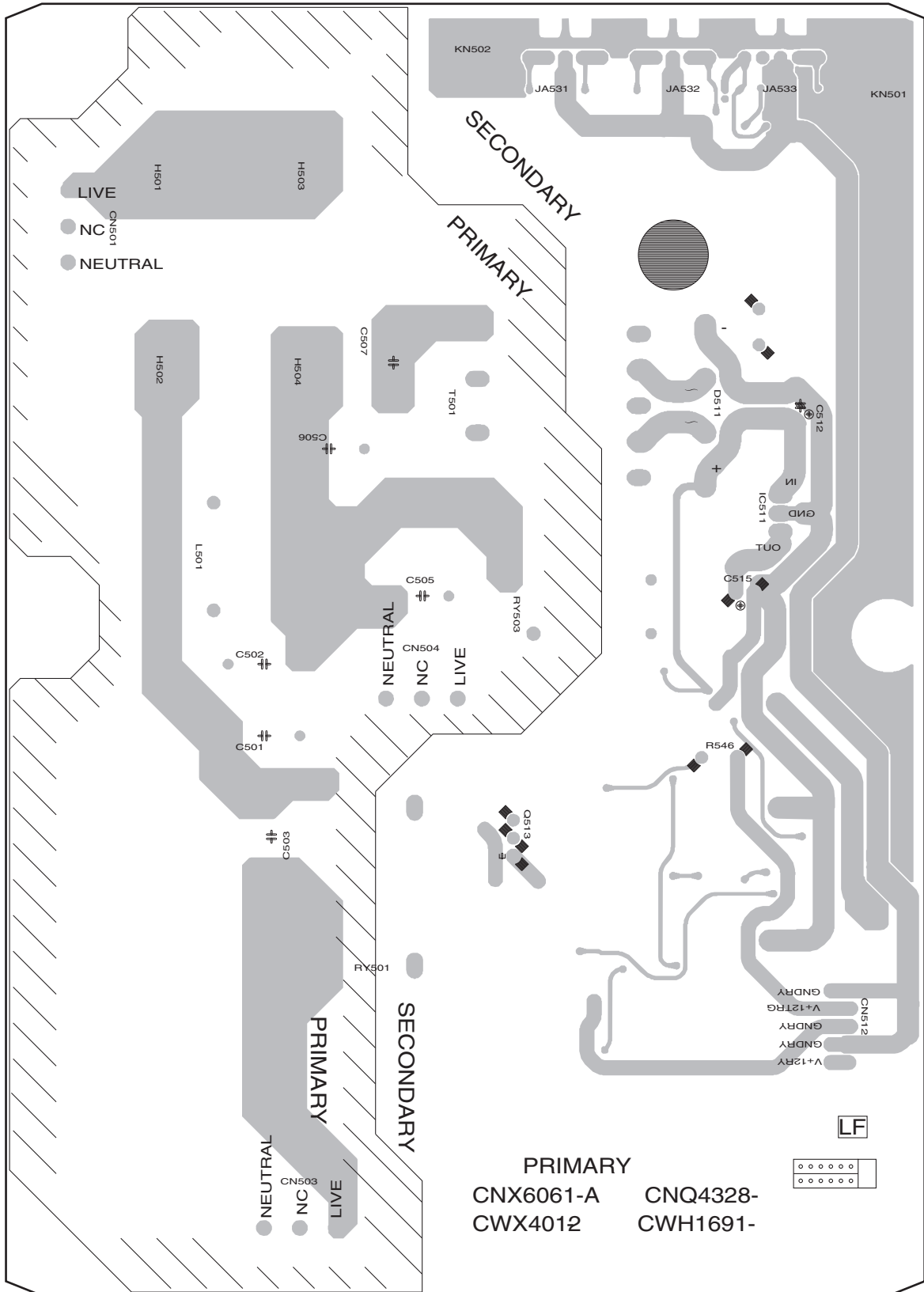
AMP UNIT (PRIMARY)



SIDE B

SIDE B

AMP UNIT (PRIMARY)



12. PCB PARTS LIST

NOTES: ● Parts marked by “NSP” are generally unavailable because they are not in our Master Spare Parts List.
● The Δ mark found on some component parts indicates the importance of the safety factor of the part.
Therefore, when replacing, be sure to use parts of identical designation.
● When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47 k ohm (tolerance is shown by J = 5%, and K = 10%).

560 Ω $\rightarrow$ 56 $\times 10^1$ $\rightarrow$ 561.....RD1/4PU $\begin{matrix} 5 & 6 & 1 \end{matrix}$ J
47 k Ω $\rightarrow$ 47 $\times 10^3$ $\rightarrow$ 473.....RD1/4PU $\begin{matrix} 4 & 7 & 3 \end{matrix}$ J
0.5 Ω $\rightarrow$ R50.....RN2H $\begin{matrix} R & 5 & 0 \end{matrix}$ K
1 Ω $\rightarrow$ 1R0.....RS1P $\begin{matrix} 1 & R & 0 \end{matrix}$ K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).
5.62 k Ω $\rightarrow$ 562 $\times 10^1$ $\rightarrow$ 5621.....RN1/4PC $\begin{matrix} 5 & 6 & 2 & 1 \end{matrix}$ F

● Meaning of the figures and others in the parentheses in the parts list.
Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.
IC 301 (A, 91, 111) IC NJM2068V

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
------	-----	-------------	----------	------	-----	-------------	----------

LIST OF ASSEMBLIES

NSP	1..AUDIO L UNIT	CWX4011
	2..AMP UNIT (AUDIO Lch)	CWH1685
	2..AMP UNIT (A_IO Lch)	CWH1686
	2..AMP UNIT (VOLUME)	CWH1696
C	2..AMP UNIT (F_SW)	CWH1697
	1..POWER UNIT	CWX4012
	2..AMP UNIT (AUDIO SECONDARY)	CWH1689
	2..AMP UNIT (DIGITAL SECONDARY)	CWH1690
NSP	2..AMP UNIT (PRIMARY)	CWH1691
	2..AMP UNIT (FRONT)	CWH1692
	1..DIGITAL UNIT	CWX4013
	2..DIGITAL UNIT	CWH1693
NSP	2..D_IO UNIT	CWH1694
	2..PSWB UNIT	CWH1695
	1..AUDIO R UNIT	CWX4045
	2..AMP UNIT (A_IO Rch)	CWH1686
D	2..AMP UNIT (AUDIO Rch)	CWH1687

Mark	No.	Description	Part No.
------	-----	-------------	----------

AUDIO L UNIT

SEMICONDUCTORS

IC 101,103	OPA2134PAS1
IC 102	TAD01
Q 101,102,105,107	2SK208
Q 103,104,106,109	2SJ106
Q 108	2SK208
Q 110	2SJ106
Q 115,116,119,120	2SA1163
Q 117,118,121,122	2SC2713
Q 123,124,127,128	2SA1163
Q 125,126,129-132	2SC2713
Q 133,134	2SC4883A
Q 135,136	2SA1859A
Q 201,204,207,751	2SK2034
Q 202,205,208,752	LTA124EUB
Q 754,757,760	2SK2034
Q 755,758,761	LTA124EUB
Q 763-765	2SK2034
Q 766-768	LTA124EUB
D 101-104	SML-310YT

D 201-210,751-764 1SS352

MISCELLANEOUS

JA 701,702 CONNECTOR	CKM1590
JA 703,704,707 PIN JACK (1P)	AKB7102
JA 705,706 CANON CONNECTOR	DKN1551
JA 708 PIN JACK (1P)	AKB7102
KN 101,102 SCREW TERMINAL	VNE1949
KN 103,104 WRAPPING TERMINAL	VNF1084
	VNF1084
	VSR1008
	ASX7037
S 4001 ROTARY ENCODER	ASX7037
S 5001 ROTARY SWITCH	CSD1175
CN 101,103,4001,5001 5P TOP POST	B5B-EH
CN 102,104 CONNECTOR	CKS6112
CN 201 17P CONNECTOR	VKN1607
CN 202 3P TOP POST	B3B-EH
CN 754,755 CONNECTOR	B6B-EH
215 AMP UNIT	CWH1685
216 AMP UNIT	CWH1686
217 AMP UNIT	CWH1696
218 AMP UNIT	CWH1697

RESISTORS

R 101,102,117	CCN1237
R 103,104,124,133	CCN1259
R 105-108,119,120	RN1/16SE4700D
R 109-112,121,122	RN1/16SE1000D
R 113,114,123,131	CCN1230
R 115,116,129,130	CCN1266
	CCN1258
	RN1/16SE1000D
	CCN1272
	CCN1230
	CCN1259
R 118	CCN1258
R 125,139-154	RN1/16SE1000D
R 126,127,176,178	CCN1272
R 132,185,186	CCN1230
R 134,721-726	CCN1259
	RN1/16SE4700D
	RN1/16SE1802D
	RN1/16SE2200D
	CCN1193
	CCN1259
R 135-138,159,160	RN1/16SE4700D
R 155-158	RN1/16SE1802D
R 161-164	RN1/16SE2200D
R 165-168	CCN1193
R 171,172	CCN1314
	CCN1312
	CCN1232
	CCN1237
	CCN1237
	CCN1237
R 173,174	CCN1312
R 175,177	CCN1232
R 707-712,727-732	CCN1237
Other Resistors	RS1/10SR###J

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
<u>CAPACITORS</u>							
C	101,102,109,115		CCE1044	H	501-504 FUSE HOLDER		AKR7004
C	103-106,111,112		CFHXSP223G50	JA	531-533 JACK		AKN-209
C	107,108		CCE1060	KN301	WRAPPING TERMINAL		VNF1084
C	113,114,137-140		CCH1712	KN401-404	WRAPPING TERMINAL		VNF1084
C	116,701-706		CCE1044	KN501,502	SCREW TERMINAL		VNE1949
C	117-120		CFHXSP223G50	VR3101	SEMI FIXED RESISTOR		VRMB6HS103
C	121-128		CCSRCH100D50	RY501	RELAY		ASR7031
C	129-132		CCH1549	RY503	JOE LOWPOWER RELAY		ASR7013
C	133-136,183		CCSRCH101J50	S	3001-3006 PUSH SW		CSG1194
C	141,142		CCE1045	CN301,303,304,331	CONNECTOR		CKS6112
C	143,144		CCH1712	CN333,401,501,503	CONNECTOR		CKS6112
C	145,146		CCH2011	CN351,352,431,451	CONNECTOR		CKS6111
C	147,148,181,182		VCH1288	CN402,512	5P TOP POST		B5B-EH
C	184		CCH1692	CN403,404	3P TOP POST		B3B-EH
C	201-206,751-764		CKSRYB103K50	CN504	CONNECTOR		CKS6112
C	721-726,765-770		VCH1261	CN3001,3002	17P CONNECTOR		VKN1277
C	733-738		CCE1044	CN3003	B TO B CONNECTOR		CKS6344
C	4001,4002		CKSRYB103K50	CN3005,3006	CONNECTOR		B6B-EH
C	5001		CKSRYB105K16	401	HEAT SINK		CLX1028
C	5002		CKSRYB104K50	402	HEAT SINK		CND6146
C	5003		CCSRCH102J50	403	SCREW		PMH30P080FCC
C	5004		CCSRCH471J50	3506	SPACER/LED		CNW2263
<u>POWER UNIT</u>				3508	AMP UNIT		CWH1689
<u>SEMICONDUCTORS</u>				3509	AMP UNIT		CWH1690
IC	401,402,431,451		LM338T	3510	AMP UNIT		CWH1691
IC	403		NJM2370R12	3511	AMP UNIT		CWH1692
IC	452		LM338T	JH 401	PCB BINDER		VEF1040
IC	511		NJM78M56FA	P	301,302,451 PROTECTOR (7 A)		AEK7021
IC	3201		GP1UXC14RK	P	331,332,401 PROTECTOR (5 A)		AEK7019
Q	301,331,351		2SC4883A	P	351,431 PROTECTOR (1.25 A)		AEK7010
Q	302,332		2SA1859A	<u>RESISTORS</u>			
Q	303,306,307,309		2SC2713	R	301-304,331-334		RN1/16SE3300D
Q	304,305,308,334		2SA1163	R	305-308,335-338		RN1/16SE4701D
Q	310,333,336,337		2SC2713	R	309,310,339,340		RN1/16SE1002D
Q	335,338,353		2SA1163	R	311,312,341,342		RN1/16SE3001D
Q	339,340,352,354		2SC2713	R	313,314,343,344		RN1/16SE2202D
Q	355,511,3102		2SC2713	R	315,345,358		CCN1193
Q	451-454,3101		LTC124EUB	R	319,320,349,350		RD1/4MUF100J
Q	512,514		LTA124EUB	R	351,353		RN1/16SE3300D
Q	513		2SC2235	R	352		RN1/16SE1002D
Q	531-540		2SB1189	R	354,355		RN1/16SE4701D
Q	541		RT1N241M	R	356		RN1/16SE5101D
Q	3501-3504		2SC2713	R	357		RN1/16SE2000D
D	301,331,351,431		FCH20A20	R	360,546		RD1/4MUF100J
D	302,332,352,432		FRH20A20	R	403,404,432,452		RN1/16SE1800D
D	303-308,333-338		SML-310YT	R	406,408,433		RN1/16SE1501D
D	353,354		SML-310YT	R	407,409		RN1/16SE47R0D
D	401,511		D3SBA20	R	434		RN1/16SC47R0D
D	403,404,433,453		RB751V-40	R	453		RN1/16SE5100D
D	405,512,513		1SS352	R	454,457		RN1/16SC33R0D
D	451		FCH20A20	R	455		RN1/16SE1800D
D	452		FRH20A20	R	456		RN1/16SE6200D
D	454		RB751V-40	<u>CAPACITORS</u>			
D	517-520,531-535		1SS352	C	301,302,331,332		CCH1956
D	536		RKZ4.7KG(B2)	C	303-306,333-336		CCH1951
<u>MISCELLANEOUS</u>				C	307-310,337-340		CCE1044
				C	311,312,341,342		CCH2011
				C	313,343,357		CCE1040

Mark No. Description**Part No.****Mark No. Description****Part No.**

C 351 CEHAZL222M25
 C 352,353 CCH1951
 C 354,355 CCE1044
 C 356 CCH2011
 C 401,402,405,406 CEHAZL102M35

IC 2721 S-1170B25UC-OTK
 IC 2731 S-1172B12-E6
 Q 1001,1002,1025-1028 2SA1163
 Q 1021,1041,1061,1081 2SK2145
 Q 1022-1024,1029-1031 2SC2713
 Q 1032,1045-1048,1052 2SA1163

C 403,404,407,408 CKSRYB103K50
 C 409,478,481,484 CKSRYB104K50
 C 410,433,453,456 ACH1482
 C 411 CFTLA474J2A
 C 431,512 CEHAZL102M35

Q 1042-1044,1049-1051 2SC2713
 Q 1062-1064,1069-1071 2SC2713
 Q 1065-1068,1072 2SA1163
 Q 1082-1084,1089-1091 2SC2713
 Q 1085-1088,1092,1101 2SA1163

C 432,434,452,454 CKSRYB103K50
 C 435,458 CFTLA225J50
 C 451,459 CEHAT332M25
 C 455,457,471-473 CKSRYB103K50
 C 460,461,479,482 CKSRYB102K50

Q 1102,1125-1128,1132 2SA1163
 Q 1121,1141,1161,1181 2SK2145
 Q 1122-1124,1129-1131 2SC2713
 Q 1142-1144,1149-1151 2SC2713
 Q 1145-1148,1152 2SA1163

C 477,480,483,486 CKSRYB105K16
 C 485,488,491,543 CKSRYB102K50
 C 487,490,542,545 CKSRYB104K50
 C 489,541,544,3002 CKSRYB105K16
 C 501,502,507 ACE7013

Q 1162-1164,1169-1171 2SC2713
 Q 1165-1168,1172 2SA1163
 Q 1182-1184,1189-1191 2SC2713
 Q 1185-1188,1192 2SA1163
 Q 1501,1502,2101,2102 LTC124EUB

C 503,505 ACG7039
 C 511 CFTLA103J2A
 C 513,514,523-526 CKSRYB103K50
 C 515 CEHAZL470M25
 C 516,517 CKSRYB221K50

Q 2611,2641 LTC124EUB
 D 1001,1002,1101,1102 SML-310YT
 D 1021,1022,1041,1042 1SS352
 D 1061,1062,1081,1082 1SS352
 D 1121,1122,1141,1142 1SS352

C 531-537,3409,3410 CKSRYB103K50
 C 546 CKSRYB102K50
 C 3001,3005,3009,3201 VCH1279
 C 3003,3007,3011,3102 CKSRYB104K50
 C 3004,3008,3012,3103 CCSRCH102J50

D 1161,1162,1181,1182 1SS352
 D 1501-1505,2031,2041 RB751V-40
 D 2001-2004,2072,2082 RB160M-60
 D 2051,2061,2071,2081 RB751V-40
 D 2521-2526 RB160M-60

C 3006,3010,3101,3115 CKSRYB105K16
 C 3104-3106,3301,3302 CCSRCH471J50
 C 3116,3203,3403,3407 CKSRYB104K50
 C 3117,3204,3404,3408 CCSRCH102J50
 C 3202,3402,3406,3501 CKSRYB105K16

D 2611-2614,2701,2702 RB751V-40
 D 2721,2731 RB751V-40
 D 3319 SLI-343URC
 D 3320 SLI-343Y8Y(LM)

C 3401,3405 VCH1279
 C 3411 CCSRCH471J50
 C 3502 CKSRYB104K50
 C 3503,3504 CCSRCH102J50

MISCELLANEOUS

JA 1853 CONNECTOR CKM1590
 JA 1854 PIN JACK (1P) AKB7102
 JA 2601 USB CONNECTOR DKN1237
 KN 1001,1801 SCREW TERMINAL VNE1949
 S 3007 PUSH SW CSG1194

**DIGITAL UNIT
SEMICONDUCTORS**

IC 1001,1101 PCM1794ADB
 IC 1601,1611,2221,2651 TC7SZU04FU
 IC 2031,2051,2061,2701 S-1170B33UC-OTS
 IC 2041 S-1170B50UC-OUJ
 IC 2071,2081 BA00CCOWFP

T 2513 COIL CTL1006
 X 2101 OSCILLATOR (10 MHz) CWX3886
 X 2201 OSCILLATOR (11.2896 MHz) CWX3885
 X 2611 OSCILLATOR (24 MHz) CWX4026
 X 2691 CRYSTAL OSCILLATOR ASS7101

IC 2101 LC87F5CC8A-QIP
 IC 2102 S-80850CNMC-B9B
 IC 2103 TC7SET04FUS1
 IC 2104,2611,2613 BR24L64F-W
 IC 2201 TC74VHC04FTS1

X 2692 CRYSTAL OSCILLATOR ASS7102
 CN 2004,2005,2012 17P CONNECTOR VKN1607
 CN 2006 CONNECTOR CKS6112
 CN 2007 CONNECTOR CKS6111
 CN 2010,2011 CONNECTOR CKS6113

IC 2341 TC74LCX157FTS1
 IC 2351 SRC4192IDB
 IC 2401 AK4114VQ
 IC 2521 SN75176BP
 IC 2612,2614 TC7SBD384AFU

CN 2013 17P CONNECTOR VKN1607
 CN 2101 CONNECTOR CKS3849
 CN 2102,2601 PLUG (6P) KM200NA6
 CN 2103 PLUG (2P) KM200NA2
 2 COIL SPRING CBH3060

IC 2621 CY7C68013A56PVXC
 IC 2631 PE9020A
 IC 2641 XC3S250E-4VQG100C
 IC 2652 TC7SZU04FU

3 SPACER CNW1813
 4 SHEET CNN3415
 3513 PSWB UNIT CWH1695

5		6		7		8	
Mark	No. Description	Part No.	Mark	No. Description	Part No.		
	3514 D_IO UNIT	CWH1694	C	1011,1012,1111,1112	CFHXSQ102J50		
	3515 DIGITAL UNIT	CWH1693	C	1013,1014,1027,1030	CFHXSP223G50		
			C	1021,1041,1121,1141	CCE1056		A
RESISTORS							
R	1001,1101	RN1/16SE1002D	C	1028,1029,1048,1049	CFHXSQ681J50		
R	1007,1011,1108,1112	RN1/16SE3902D	C	1031,1047,1050,1051	CFHXSP223G50		
R	1008,1012,1029,1037	RN1/16SE1000D	C	1044-1046,1064-1066	CCSRCH101J50		
R	1009,1013,1026,1030	RN1/16SE4700D	C	1061,1062,1068,1069	CFHXSQ681J50		
R	1010,1014,1111,1115	RN1/16SE3900D	C	1067,1087,1113,1114	CFHXSP223G50		
R	1021,1041,1121,1141	CCN1320	C	1081,1082,1088,1089	CFHXSQ681J50		
R	1025,1045,1061,1062	RN1/16SE1202D	C	1083,1110,1123,1143	CFHXSQ221J50		
R	1027,1028,1047,1048	RN1/16SE6800D	C	1084-1086,1124-1126	CCSRCH101J50		
R	1031,1051,1071,1091	RN1/16SE5101D	C	1102,1105,1201,1211	VCH1288		
R	1032,1052,1072,1092	RN1/16SE5102D	C	1127,1130,1131,1147	CFHXSP223G50		
R	1033,1053,1073,1074	RN1/16SC68R0D	C	1128,1129,1148,1149	CFHXSQ681J50		B
R	1034-1036,1039,1040	RN1/16SE2200D	C	1134,1144-1146	CCSRCH101J50		
R	1038,1049,1057,1058	RN1/16SE1000D	C	1150,1151,1167,1187	CFHXSP223G50		
R	1046,1050,1066,1070	RN1/16SE4700D	C	1161,1162,1168,1169	CFHXSQ681J50		
R	1054-1056,1059,1060	RN1/16SE2200D	C	1163,1183	CFHXSQ221J50		
R	1063,1064,1083,1084	RN1/16SE3001D	C	1164-1166,1184-1186	CCSRCH101J50		
R	1065,1081,1082,1085	RN1/16SE1202D	C	1181,1182,1188,1189	CFHXSQ681J50		
R	1067,1068,1087,1088	RN1/16SE6800D	C	1202,1212,1222	CFHXSP223G50		
R	1069,1077,1078,1089	RN1/16SE1000D	C	1221	VCH1288		
R	1075,1076,1079,1080	RN1/16SE2200D	C	1331-1338	CCE1059		
R	1086,1090,1110,1114	RN1/16SE4700D	C	1602,1612,2004,2008	CCSRCH102J50		
R	1093,1094,1133,1153	RN1/16SC68R0D	C	1603,1613,2016,2072	CCSRCH101J50		C
R	1095,1096,1099,1100	RN1/16SE2200D	C	2001,2009,2127,2155	ACH1482		
R	1097,1098,1109,1113	RN1/16SE1000D	C	2002,2006,2010,2014	CKSRBY105K16		
R	1125,1145,1161,1162	RN1/16SE1202D	C	2003,2007,2011,2034	CKSRBY104K50		
R	1126,1130,1146,1150	RN1/16SE4700D	C	2005,2013,2101	CEHAZL102M35		
R	1127,1128,1147,1148	RN1/16SE6800D	C	2012,2015,2031,2035	CCSRCH102J50		
R	1129,1137,1138,1149	RN1/16SE1000D	C	2032,2052,2062,2207	VCH1279		
R	1131,1151,1171,1191	RN1/16SE5101D	C	2033,2042,2053,2063	CKSRBY105K16		
R	1132,1152,1172,1192	RN1/16SE5102D	C	2041,2200,2416,2501	CEHVAW471M16		
R	1134-1136,1139,1140	RN1/16SE2200D	C	2043,2054,2064,2074	CKSRBY104K50		
R	1154-1156,1159,1160	RN1/16SE2200D	C	2044,2045,2051,2055	CCSRCH102J50		D
R	1157,1158,1169,1177	RN1/16SE1000D	C	2061,2065,2071,2075	CCSRCH102J50		
R	1163,1164,1183,1184	RN1/16SE3001D	C	2073,2083,2102,2108	CKSRBY105K16		
R	1165,1181,1182,1185	RN1/16SE1202D	C	2081,2085,2104,2110	CCSRCH102J50		
R	1166,1170,1186,1190	RN1/16SE4700D	C	2082,2105,2111,2114	CCSRCH101J50		
R	1167,1168,1187,1188	RN1/16SE6800D	C	2084,2103,2109,2116	CKSRBY104K50		
R	1173,1174,1193,1194	RN1/16SC68R0D	C	2115,2120,2123,2125	CCSRCH102J50		
R	1175,1176,1179,1180	RN1/16SE2200D	C	2117,2118,2122,2153	CKSRBY105K16		
R	1178,1189,1197,1198	RN1/16SE1000D	C	2119,2124,2157,2164	CKSRBY104K50		
R	1195,1196,1199,1200	RN1/16SE2200D	C	2121,2126,2160,2166	CCSRCH101J50		
R	1451,1452,1471,1472	RN1/16SE3300D	C	2128,2358,2417,2631	CKSRBY103K50		
R	1453,1454,1473,1474	RN1/16SE3303D	C	2154,2158,2161,2165	CCSRCH102J50		E
R	2071	RS1/10SR4301D	C	2156,2159,2163,2168	CKSRBY105K16		
R	2072,2082	RS1/10SR2401D	C	2162,2167	ACH1482		
R	2081	RS1/10SR4701D	C	2169,2171,2703,2723	CKSRBY104K50		
R	2405	RS1/10SR1802D	C	2170,2202,2205,2209	CCSRCH102J50		
Other Resistors		RS1/10SR###J	C	2201,2204,2208,2211	CKSRBY105K16		
			C	2203,2206,2210,2213	CCSRCH101J50		
			C	2212,2215,2219,2223	CCSRCH102J50		
CAPACITORS							
C	1001,1002,1005,1101	VCH1288	C	2214,2218,2222,2225	CKSRBY105K16		
C	1003,1004,1103,1104	CCH1549	C	2216,2220,2224,2227	CCSRCH101J50		
C	1006,1106,1604,1614	VCH1279	C	2221,2251,2341,2351	VCH1279		
C	1007,1107,1601,1611	CKSRBY105K16	C	2226,2232,2253,2255	CCSRCH102J50		F
C	1008,1024-1026	CCSRCH101J50	C	2231,2252,2257,2342	CKSRBY105K16		
C	1009,1108,1109,1133	CCSRCH102J50	C	2233,2254,2344,2354	CCSRCH101J50		
C	1010,1023,1043,1063	CFHXSQ221J50					

Mark No. Description**Part No.****Mark No. Description****Part No.**

A

C 2256,2258,2343,2353 CCSRCH102J50
 C 2352,2355,2402,2405 CKSRYB105K16
 C 2356,2403,2406,2409 CCSRCH102J50
 C 2357,2404,2407,2410 CCSRCH101J50

Q 763-765 2SK2034
 Q 766-768 LTA124EUB
 D 101-104 SML-310YT
 D 201-210,751-764 1SS352

B

C 2401,2612,2621,2635 VCH1279
 C 2408,2502,2512,2522 CKSRYB105K16
 C 2415 CKSRYB474K16
 C 2503,2513,2523,2603 CCSRCH102J50
 C 2504,2514,2524,2604 CCSRCH101J50

MISCELLANEOUS

JA 701,702 CONNECTOR CKM1590
 JA 703,704,707 PIN JACK (1P) AKB7102
 JA 705,706 CANON CONNECTOR DKN1551
 JA 708 PIN JACK (1P) AKB7102
 KN 101,102 SCREW TERMINAL VNE1949

C 2511,2521 CEHVAW471M16
 C 2535 CCH1951
 C 2601,2602,2609,2613 CKSRYB105K16
 C 2610,2614,2617,2623 CCSRCH102J50
 C 2611,2615,2616,2619 CCSRCH101J50

KN 103,104 WRAPPING TERMINAL VNF1084
 KN 701,702 WRAPPING TERMINAL VNF1084
 RY 101-103,701-707 RELAY VSR1008
 CN 101,103 5P TOP POST B5B-EH
 CN 102,104 CONNECTOR CKS6112

C 2618,2622,2625,2628 CKSRYB105K16
 C 2624,2627,2630,2634 CCSRCH101J50
 C 2626,2629,2633,2637 CCSRCH102J50
 C 2632,2636,2639,2644 CKSRYB105K16
 C 2638,2646,2649,2652 CCSRCH101J50

CN 201 17P CONNECTOR VKN1607
 CN 202 3P TOP POST B3B-EH
 CN 754,755 CONNECTOR B6B-EH
 779 AMP UNIT CWH1687
 780 AMP UNIT CWH1686

C

C 2640,2645,2648,2651 CCSRCH102J50
 C 2641-2643,2701,2721 VCH1279
 C 2647,2650,2653,2656 CKSRYB105K16
 C 2654,2657,2660,2663 CCSRCH102J50
 C 2655,2658,2661,2664 CCSRCH101J50

RESISTORS

R 101,102,117 CCN1237
 R 103,104,124,133 CCN1259
 R 105-108,119,120 RN1/16SE4700D
 R 109-112,121,122 RN1/16SE1000D
 R 113,114,123,131 CCN1230

C 2659,2662,2665,2668 CKSRYB105K16
 C 2666,2669,2672,2675 CCSRCH102J50
 C 2667,2670,2673,2676 CCSRCH101J50
 C 2671,2674,2678,2681 CKSRYB105K16
 C 2677,2687,3512 CKSRYB103K50

R 115,116,129,130 CCN1266
 R 118 CCN1258
 R 125,139-154 RN1/16SE1000D
 R 126,127,176,178 CCN1272
 R 132,185,186 CCN1230

D

C 2679,2682,2685,2689 CCSRCH102J50
 C 2680,2683,2686,2690 CCSRCH101J50
 C 2684,2688,2691,2694 CKSRYB105K16
 C 2692,2695,2698,2704 CCSRCH102J50
 C 2693,2696,2699 CCSRCH101J50

R 134,721-726 CCN1259
 R 135-138,159,160 RN1/16SE4700D
 R 155-158 RN1/16SE1802D
 R 161-164 RN1/16SE2200D
 R 165-168 CCN1193

C 2697,2702,2711,2722 CKSRYB105K16
 C 2705,2712,2724,2725 CCSRCH102J50
 C 2731 VCH1279
 C 2732,3341,3344,3347 CKSRYB105K16
 C 2733,3342,3345,3348 CKSRYB104K50

R 171,172 CCN1314
 R 173,174 CCN1312
 R 175,177 CCN1232
 R 707-712,727-732 CCN1237
 Other Resistors RS1/10SR###J

E

C 2734,2735,3343,3346 CCSRCH102J50
 C 3349 CCSRCH102J50

CAPACITORS

C 101,102,109,115 CCE1044
 C 103-106,111,112 CFHXSP223G50
 C 107,108 CCE1060
 C 113,114,137-140 CCH1712
 C 116,701-706 CCE1044

IC 101,103 OPA2134PAS1
 IC 102 TAD01
 Q 101,102,105,107 2SK208
 Q 103,104,106,109 2SJ106
 Q 108 2SK208

C 117-120 CFHXSP223G50
 C 121-128 CCSRCH100D50
 C 129-132 CCH1549
 C 133-136,183 CCSRCH101J50
 C 141,142 CCE1045

Q 110 2SJ106
 Q 115,116,119,120 2SA1163
 Q 117,118,121,122 2SC2713
 Q 123,124,127,128 2SA1163
 Q 125,126,129-132 2SC2713

C 143,144 CCH1712
 C 145,146 CCH2011
 C 147,148,181,182 VCH1288
 C 184 CCH1692
 C 201-206,751-764 CKSRYB103K50

F

Q 133,134 2SC4883A
 Q 135,136 2SA1859A
 Q 201,204,207,751 2SK2034
 Q 202,205,208,752 LTA124EUB
 Q 754,757,760 2SK2034

C 721-726,765-770 VCH1261
 C 733-738 CCE1044

Q 755,758,761 LTA124EUB

**AUDIO R UNIT
SEMICONDUCTORS**