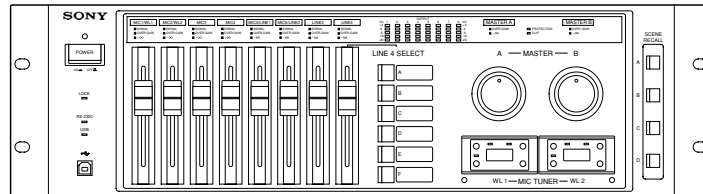


SRP-X700P

SERVICE MANUAL

J Model
US Model
Canadian Model
AEP Model
Chinese Model



SPECIFICATIONS

AUDIO入出力

入力	端子形状	回路	チャンネル	基準入力レベル	最大入力レベル	インピーダンス
MIC 1/WL 1, MIC 2/WL 2, MIC 3,MIC 4	XLR-3-31type	平衡	モノラル	-60~-45dBu	-37~-22dBu	2.2kΩ以上
MIC 5/LINE 1 MIC 6/LINE 2	XLR-3-31type	平衡	モノラル	-60~-45dBu -10~+4dBu	-37~-22dBu +10~+24dBu	2.2kΩ以上 (MIC時) 10kΩ以上 (LINE時)
LINE 3	ピン	不平衡	ステレオ	-10~0dBu	+10dBu	10kΩ以上
LINE 4 (A B C F)	ピン	不平衡	ステレオ	-10~0dBu	+10dBu	10kΩ以上
LINE 4 (D E)	ピン	不平衡	ステレオ/5.1サラウンド	-10~0dBu	+10dBu	10kΩ以上
出力	端子形状	回路	チャンネル	基準出力レベル	最大出力レベル	負荷インピーダンス
LINE OUT 1-2	XLR-3-32type	平衡	モノラル	-10/-5/0/+4dBu	+24dBu	600Ω以上
LINE OUT 3-8	ピン	不平衡	モノラル	-10/-5/0dBu	+15dBu	10kΩ以上
REC OUT 1-2	ピン	不平衡	モノラル	-10/-5/0dBu	+15dBu	10kΩ以上

SPEAKER出力

出力	端子形状	インピーダンス	最大出力
CH 1	ネジ式ターミナル	4Ω~16Ω	150W+150W(8Ω, JEITA)
CH 2		4Ω~16Ω	200W+200W(4Ω, JEITA)
70V LINE		32Ω~10kΩ	150W(32Ω, JEITA)

VIDEO/RGB入出力

入力	端子形状	信号形式	レベル	インピーダンス
LINE 4 (A B C)	ピン	Composite	1Vp-p(75Ω)	75Ω
	MINI Din	Y/C	1Vp-p(Y)/0.286Vp-p(C)	75Ω
LINE 4 (D E F)	HD D-sub 15-pin	Component / RGB	0.7Vp-p(映像信号) 1~5V(同期信号)	75Ω(映像信号) 47kΩ(同期信号入力)
出力	端子形状	信号形式	レベル	インピーダンス
R/R-Y,G/Y,B/B-Y, SYNC/HD,VD	BNC	Component / RGB	0.7Vp-p(映像信号) 1~5V(同期信号)	75Ω(映像信号) 47kΩ(同期信号入力)
S-VIDEO	MINI Din	Y/C	1Vp-p(Y)/0.286Vp-p(C)	75Ω
VIDEO	BNC	Composite	1Vp-p	75Ω

AUDIO

周波数特性	20Hz~20kHz±0.5dB (LINE OUT, 1kHz基準)
全高調波歪み率	0.01%以下 (LINE OUT, 1kHz)
S/N比	94dB以上 (LINE 3, LINE 4, IHF-A)
クロストーク	-85dB以下 (LINE, Ch間, 1kHz, 入力ショート)
入力換算雑音レベル	-124dBu以下 (-60dBu, 入力150Ω終端, IHF-A)
0dBu =	0.775V

VIDEO/S-VIDEO

周波数特性	50Hz~10MHz
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COMPONENT/RGB

周波数特性	50Hz~150MHz 480p, 1080i, 1280×1024 60Hz (SXGA) 対応
-------	---

REMOTE

PROJECTOR CONTROL	
RS-232C	D-sub 9ピン(オス)
CONTROL S IN/OUT	ミニジャック
REMOTE	
PARALLEL I/O	D-sub 25ピン(メス)
IN	メーク接点入力 Logic : C-MOS LEVEL アクティブL 入力パルス幅 : 100msec以上
OUT	オープンコレクタ出力 耐電圧 : +24V以下 最大シンク電流 : 40mA
RS-232C	D-sub 9ピン(オス)
USB(フロント/リア)	TYPE-B

その他

ANT IN端子	BNC DC+9Vを給電
MIC1~6 XLR端子へ給電	
(MIC1~4は+48VボタンがON時、 MIC5/6はMICレベル設定時のみ)	

一般

電源	AC100V, 50/60Hz
消費電力	230W
外形寸法	482×132×350mm(幅/高さ/奥行き) 突起部含まず
質量	約13kg
動作温度	0°C~40°C
保存温度	-20°C~60°C
付属品	電源コード(1)、フット(4)、CD-ROM(1)、 取扱説明書(1)、 WRU-806チャンネル設定方法(1)、保証書(1)、 ソニー業務用製品ご相談窓口のご案内(1)
別売アクセサリ	UHFアンテナ AN-820 UHFシンセサイザーチューナーユニット WRU-806 AVマウス(赤外線発光ユニット) VM-50

本機は「高調波ガイドライン適合品」です。

携帯通信機器による電磁波障害を防止するために
携帯電話などの通信機器を本機の近くで使用すると、誤動作を引き起こしたり、映像、音声などに影響を与えることがあります。本機の近くでは、携帯通信機器の電源はできるだけ切ってください。

仕様および外観は、改良のため予告なく変更することがありますが、ご了承ください。

DIGITAL POWERED MIXER

SONY®

AUDIO INPUT/OUTPUT

Input	Terminal shape	Circuit	Channel	Reference input level	Maximum input level	Impedance
MIC 1/WL 1, MIC 2/WL 2, MIC 3, MIC 4	XLR 3-31type	Balanced	Monaural	−60 to −45 dBu	−37 to −22 dBu	2.2 kΩ or more
MIC 5/LINE 1 MIC 6/LINE 2	XLR 3-31type	Balanced	Monaural	−60 to −45 dBu −10 to +4 dBu	−37 to −22 dBu +10 to +24 dBu	2.2 kΩ or more (in MIC mode) 10 kΩ (in LINE mode)
LINE 3	Pin	Unbalanced	Stereo	−10 to 0 dBu	+10 dBu	10 kΩ or more
LINE 4 (A B C F)	Pin	Unbalanced	Stereo	−10 to 0 dBu	+10 dBu	10 kΩ or more
LINE 4 (D E)	Pin	Unbalanced	Stereo/ 5.1 surround	−10 to 0 dBu	+10 dBu	10 kΩ or more
Output	Terminal shape	Circuit	Channel	Reference output level	Maximum output level	Load impedance
LINE OUT 1-2	XLR 3-32type	Balanced	Monaural	−10/−5/0/+4 dBu	+24 dBu	600 Ω or more
LINE OUT 3-8	Pin	Unbalanced	Monaural	−10/−5/0 dBu	+15 dBu	10 kΩ or more
REC OUT 1-2	Pin	Unbalanced	Monaural	−10/−5/0 dBu	+15 dBu	10 kΩ or more

SPEAKERS OUTPUT

Output	Terminal shape	Impedance	Maximum output
CH 1	Screw-type terminal	4 Ω to 16 Ω	150 W + 150 W (8 Ω 1 kHz, T.H.D 10%)
CH 2		4 Ω to 16 Ω	200 W + 200 W (4 Ω 1 kHz, T.H.D 10%)
70 V LINE		32 Ω to 10 kΩ	150 W (32 Ω 1 kHz, T.H.D 10%)

VIDEO/RGB INPUT/OUTPUT

Input	Terminal shape	Signal format	Level	Impedance
LINE 4 (A B C)	Pin	Composite	1 Vp-p (75Ω)	75 Ω
	MINI Din	Y/C	1 Vp-p (Y)/0.286 Vp-p (C) (US, Canadian)	75 Ω
			1 Vp-p (Y)/0.3 Vp-p (C) (AEP, Chinese)	
LINE 4 (D E F)	HD D-sub 15-pin	Component/RGB	0.7 Vp-p (video signal) 1 to 5 V (sync signal)	75 Ω (video signal) 47 kΩ (sync signal input)
Output	Terminal shape	Signal format	Level	Impedance
R/R-Y, G/Y, B/B-Y, SYNC/HD, VD	BNC	Component/RGB	0.7 Vp-p (video signal) 1 to 5 V (sync signal)	75 Ω (video signal) 47 kΩ (sync signal input)
S-VIDEO	MINI Din	Y/C	1 Vp-p (Y)/0.286 Vp-p (C) (US, Canadian)	75 Ω
			1 Vp-p (Y)/0.3 Vp-p (C) (AEP, Chinese)	
VIDEO	BNC	Composite	1 Vp-p	75 Ω

AUDIO

Frequency response 20 Hz to 20 kHz ± 0.5 dB
(with LINE OUT, 1 kHz reference)

T.H.D 0.01 % or less (LINE OUT, 1 kHz)

S/N ratio 94 dB or more (LINE 3, LINE 4, IHF-A)

Crosstalk −85 dB or less (between LINE channels,
1 kHz with input cutoff)

Equivalent input noise level −124 dBu or less (−60 dBu, with input
terminated in 150 Ω, IHF-A)

0 dBu = 0.775 V

VIDEO/S-VIDEO

Frequency response 50 Hz to 10 MHz

COMPONENT/RGB

Frequency response 50 Hz to 150 MHz
480 p, 1080 i,
1280 × 1024 60 Hz (SXGA) supported

REMOTE

PROJECTOR CONTROL	
RS-232C	D-sub 9-pin (male)
CONTROL S IN/OUT	Mini jack
REMOTE	
PARALLEL I/O	D-sub 25-pin (female)
IN	Make contact input Logic: C-MOS LEVEL active L Input pulse width: 100 msec or more
OUT	Open collector output Withstand voltage: +24 V or less Maximum sink current: 40 mA
RS-232C	D-sub 9-pin (male)
USB (front/rear)	TYPE-B

OTHERS

ANT IN terminal BNC DC +9 V is supplied.
+48 V power supply Supplied to MIC 1 to MIKE 6 XLR
terminals. (For MIC 1 through
MIC 5, supplied when the +48 V
button is ON.)
(For MIC 5 and MIC 6, supplied at
MIC level setting only.)

General

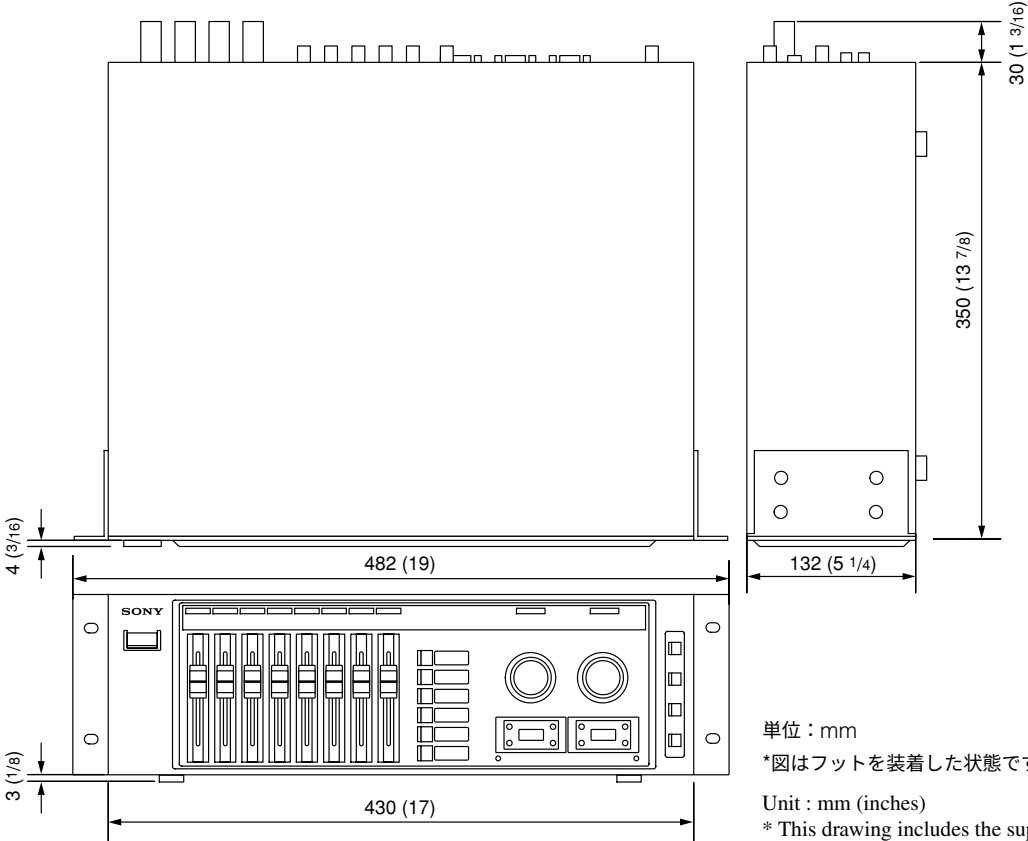
Power requirement	AC 120 V, 50/60 Hz (US, Canadian) AC 220 V, 50/60 Hz (Chinese) AC 230 V, 50/60 Hz (AEP)
Power consumption	150 W
Dimensions	482 × 132 × 350 mm (w/h/d) (19 × 5 1/4 × 13 7/8 inches) (excluding protrusions)
Mass	Approx. 13 kg (28 lb 11 oz)
Operating temperature	0°C to 40°C
Storage temperature	−20°C to 60°C
Supplied accessories	Power cord (1), Foot (4), CD-ROM (1), IR transmitter VM-50 (1), Operating instructions (1)
Optional accessories	UHF antenna AN-820A, UHF synthesizer tuner unit WRU-806B

To prevent electromagnetic wave interference due to portable communication devices:

If communication devices such as cellular phones are used near this unit, incorrect operation may be caused or the image, sound, etc. may be affected. Turn off the power of all portable communication devices near this unit if possible.

Design and specifications are subject to change without notice.

Dimensions



単位：mm
*図はフットを装着した状態です。
Unit : mm (inches)
* This drawing includes the supplied feet.

サービス、点検時には次のことにご注意ください。

1. 注意事項をお守り下さい。

サービスのとき特に注意を要する箇所については、キャビネット、シャーシ、部品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等の注意事項を必ずお守り下さい。

2. 指定部品のご使用を

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下さい。特に回路図、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下さい。

3. 部品の取付けや配線の引きまわしはもとどおりに

安全上、チューブやテープ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プによって発熱部品や高圧部品に接近しないよう配慮されていますので、これらは必ずもとどおりにして下さい。

4. サービス後は安全点検を

サービスのために取外したネジ、部品、配線がもとどおりになっているか、またサービスした箇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、安全性が確保されていることを確認して下さい。

5. チップ部品交換時の注意

- 取り外した部品は再使用しないで下さい。
- タンタルコンデンサのマイナス側は熱に弱いため交換時は注意して下さい。

6. フレキシブルプリント基板の取扱について

- コテ先温度を270°C前後にして行なって下さい。
- 同一パターンに何度もコテ先を当てないで下さい。
(3回以内)
- パターンに力が加わらないよう注意して下さい。

7. 電池の交換は、正しく行わないと爆発するおそれがあります。

電池を交換する場合には、必ず同じ型名の電池または機器製造者が指定した同等品以外のものとは交換しないようにして下さい。
使用済みの電池は、製造者の指示に従って処分して下さい。

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK △ OR DOTTED LINE WITH MARK △ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

**ATTENTION AU COMPOSANT AYANT RAPPORT
À LA SÉCURITÉ!**

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE △ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

与安全有关的零部件须知

在原理图上用阴影及△标记来识别的零部件在安全操作上是具有关键性的。这些零部件要用本手册中所示的部件号对应的索尼零部件进行更换。

在安全操作上具有关键性的电路调整与索尼公司出版的维修手册完全一致。在更换关键零部件时或怀疑动作失常时，请进行这些调整操作。

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the manufacturer.
Discard used batteries according to the manufacturer's instructions.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

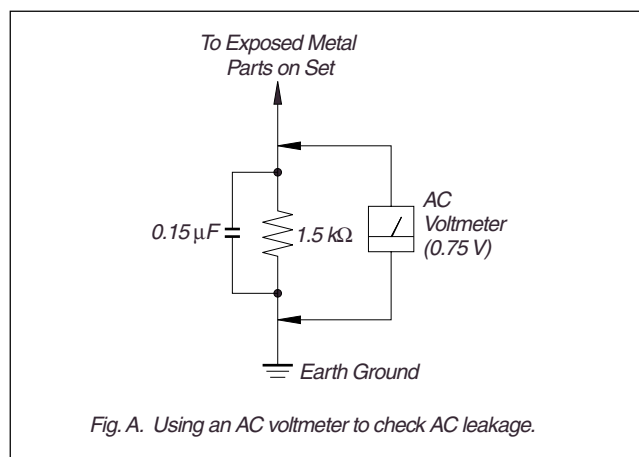


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SECTION 1 SERVICE NOTE

(1) 内部設定のバックアップ

本機は付属の CD ROM に収録されてるソフトウェア SRP-X700P Manager により内部の設定を行ない使用します。

この設定は、DSP board の IC112, 120(EEPROM)に保存されています。

作業を行なう前に必ず SRP-X700P Manager を使用して内部設定を PC にセーブしてください。

作業終了後は、内部設定を PC から本機にアップロードして、内部設定を作業前の状態に戻して下さい。

SRP-X700P Manager の操作方法は、付属 CD ROM に収録されています。コントロールソフトウェアマニュアルを参照して下さい。

(2) 初期化方法

DSP board の交換、または DSP board の IC112, 120 の交換を行なった場合、下記の方法で初期化を行なってください。

この初期化を行なうと、内部の設定は工場出荷状態になります。

注意

初期化を行なうと内部設定が工場出荷状態になりますので、“(1)内部設定のバックアップ”を行なって下さい。

1. 電源を OFF にする。
2. フロントパネルのフェーダーおよび MASTER ボリュームをすべて MIN に設定
3. フロントパネルのシーンリコールボタン D を押しながら電源を ON にする。
電源オンから 5 秒後にシーンリコールボタン D を離す。
4. フロントパネルのシーンリコールボタン A を押すと全レベルメータ、全インジケータが点灯し、初期化を開始。
5. 約 1 分後、レベルメータが消灯し初期化が終了。
6. 電源を OFF にする。

(3) USBインターフェースのID書き込み

DSP board の交換、または DSP board 上の IC118 の交換を行なった場合、下記の方法で ID の書き込みを行なってください。

使用機器 PC
USBケーブル
取扱説明書
(コントロールソフトウェアマニュアル)
(付属の CD ROM に収録)
ID書き込みソフトウェア
FTD2XX Serializer and Tester

1. PC に SRP-X700P USB ドライバがインストールされている場合、取扱説明書(コントロールソフトウェアマニュアル)の「P.5 アンインストール」を参照して SRP-X700P USB ドライバのアンインストールを行なう。
2. 取扱説明書(コントロールソフトウェアマニュアル)の「P.4 専用ドライバをインストールする」を参照し、ID 書き込みソフトウェアのフォルダを指定して USB ドライバをインストールする。
3. PC と本機を USB ケーブルで接続。
4. ID 書き込みソフトウェアフォルダ内の FTD2XXST.EXE をダブルクリックして起動。
下記のように値を設定する。

Manufacturer	Sony
Vendor ID	054C
Product ID	00AC
Description	Sony SRP-X700P
Manufacturer ID	SO

(1) Creating Backup Data of Internal Setups

You can establish the various internal setups of the Digital Powered Mixer SRP-X700P using the software "SRP-X700P Manager" that is contained in the CD-ROM supplied with the equipment.

All of the internal setups are stored in IC112 and IC120 (EEPROM) on the DSP board.

Before you make any attempt to perform the setting work as described below, be sure to save the internal setups in an external personal computer using the SRP-X700P Manager. Upon completion of the setting work as described below, you can upload the original internal setups from personal computer to the SRP-X700P to restore the original setups. For the procedure of operating the SRP-X700P Manager, see the Control Software Manual contained in the supplied CD-ROM.

(2) Procedure to Initialize (to Default) EEPROM

When the DSP board is replaced, or IC112 or IC120 (EEPROM) on the DSP board is replaced, initialize them by the following procedure.

When they are initialized, the internal setups return to the default setups when shipped from the factory.

Caution

When EEPROMs are initialized, all of the internal setups return to the default setups when shipped from the factory, meaning that your customized setups are lost. Be sure to create the backup data by following the previous step "(1) Creating Backup Data of Internal Setups".

1. Turn off the power.
2. Set the MASTER volume control and all faders on the front panel to the MIN positions.
3. While pressing the Scene Recall button D on the front panel, turn on the power of the SRP-X700P.
In five seconds after the power is turned on, remove your hand from the Scene Recall button D.
4. Press the Scene Recall button A on the front panel. Then all level meters and all indicators turn on and the initialization starts.
5. Approximately one minute later, the level meter turns off and the initialization ends.
6. Turn off the power of the SRP-X700P.

(3) Writing the ID of the USB interface

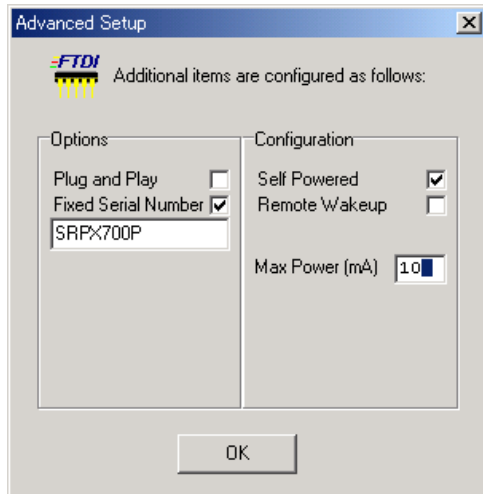
When you have replaced either the DSP board or IC118 on the DSP board, write down the ID as described below.

Equipment required PC
USB cable
Operating Instructions
(Control Software Manual)
(contained in the supplied CD-ROM)
ID write-down software
FTD2XX Serializer and Tester

1. If the SRP-X700P USB driver software has been installed already in your PC, see "Uninstall" on page 5 of the Operating Instructions (Control Software Manual) and uninstall the SRP-X700P USB driver software.
2. Install the USB driver software by specifying the folder of the ID write-down software. For details, see page 4. "Installing the Dedicated USB Driver Software" of the Operating Instructions (Control Software Manual).
3. Connect your PC and the SRP-X700P with the USB cable.
4. Start up the program by double-clicking FTD2XXST.EXE that is located in the ID write-down software folder.
Set the following value in the respective items.

Manufacturer	Sony
Vendor ID	054C
Product ID	00AC
Description	Sony SRP-X700P
Manufacturer ID	SO

5. [Device]メニューから[Advanced Setup...]を選択し、下記のように設定する。



6. [File]メニューから[Save]を選択。
7. [Device]メニューから[Program]を選択。
8. 取扱説明書(コントロールソフトウェアマニュアル)の「P.5 アンインストール」を参照してID書き込み用ドライバ“FTDI FTD2XX USB Driver”のアンインストールを行なう。

(4) ファームウェアのアップデート方法

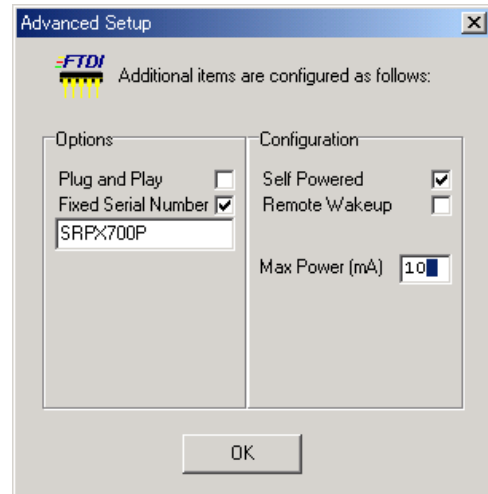
ファームウェアはDSP boardのIC119 (SYSTEM CONTROL)内蔵のフラッシュメモリに書きこまれています。

ファームウェアのアップデートが必要な場合、下記の手順で書き込みを行ないます。

使用機器 PC
RS-232C クロスケーブル
取扱説明書
(コントロールソフトウェアマニュアル)
(付属のCD ROMに収録)
書き込みソフトウェア
F- ZTAT Microcomputer On- Board
Writing Program Flash-5

1. “(1)内部設定のバックアップ”に従い内部設定をセーブする。
2. 書き込みソフトウェアのSetup.exeをダブルクリックしてPCにインストールする。
3. 書き込みソフトウェアを実行する。
4. 書き込みソフトウェアで以下の設定を行う。
スタンダードモードを選択
マイコン 2633f3.infを選択
入力クロック 15MHz
周波数比 1
ビットレート 38,400
シリアルポート COM1
タイムアウト 5秒
ファイル名 書き込みを行なうファームウェアのファイル名を設定
5. PCのシリアルポート“COM1”と本機のREMOTE RS-232C端子をRS-232Cクロスケーブルにて接続。
6. 本機の上ケースを開け、DSP board上のスイッチS101を押しながら電源スイッチをONにする。
7. 書き込みソフトウェアのStartボタンを押す。
8. 書き込みが終了したら本機の電源をOFFにする。
9. “(2)初期化方法”に従い内部設定の初期化を行なう。
10. “(1)内部設定のバックアップ”に従い、内部設定をPCから本機にアップロードする。

5. Select [Advanced Setup...] from the [Device] menu and set the respective items as shown below.



6. Select [Save] from the [File] menu.
7. Select [Program] from the [Device] menu.
8. Uninstall the ID write-down driver program "FTDI FTD2XX USB Driver". For details, see "Uninstall" on page 5 of the Operating Instructions (Control Software Manual).

(4) How to update the firmware

The firmware has been written in the built-in flash memory of IC119 (SYSTEM CONTROL) on the DSP board. When update of the firmware is necessary, update the firmware as described below.

Equipment required PC
RS-232C cross-cable
Operating Instructions
(Control Software Manual)
(contained in the supplied CD-ROM)
Program write-down software
F- ZTAT Microcomputer On- Board Writing Program Flash-5

1. Save all of the internal setups following the procedure described in "(1) Creating Backup Data of Internal Setups".
2. Double-click Setup.exe of the write-down software and install the program in your PC.
3. Execute the write-down software.
4. Establish the following setups using the write-down software.
Select the Standard Mode.

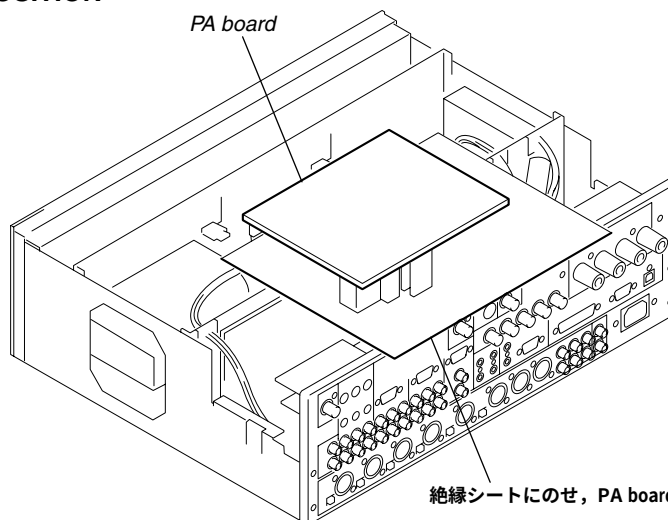
Microprocessor	Select 2633f3.inf
Input clock	15 MHz
Frequency ratio	1
Bit rate	38,400
Serial port	COM1
Timeout	5 seconds
Filename	Set the filename of the firmware to which the program is written.
5. Connect the serial port "COM1" of your PC and the REMOTE RS-232C terminal with the RS-232C cross-cable.
6. Open the top case of the SRP-X700P. While pressing the switch S101 on the DSP board, turn ON the main power.
7. Press the Start button of the write-down software.
8. Upon completion of writing down the program, turn OFF the main power of the SRP-X700P.
9. Perform initialization of the internal setups following "(2) Procedure to Initialize (to Default) EEPROM".
10. Upload the internal setups from your PC to the SRP-X700P following "(1) Creating Backup Data of Internal Setups".

(5) PA boardをサービスするときの注意

• PA boardのB面をサービスするときの手順

1. PA board上のTP001に半田を盛り、ショートする。
2. PA board上のCN003とDSP board上のCN103をつないでいる平型電線(5極 1-757-817-11)を外す。
このことにより、パワーアンプから音は出ますがPROTECTION インジケータが点灯したままになります。
3. PA boardを取り付けているネジを外す。
4. 十分な広さと厚さを持つ絶縁シートを図のように置き、PA boardをのせる。
基板が筐体に触れないよう注意してください。
5. PA boardのGNDと筐体を接続するために、基板のEP003にAWG18番線以上の太さの線材を半田付けし、一方をワニ口クリップ等で筐体に接続。
6. サービスが終わりましたら、PA boardを元の状態にもどし、TP001の半田をとり、平型電線(5極 1-757-817-11)を接続する。

• PA board SERVICE POSITION



絶縁シートにのせ、PA boardをサービスしてください。

Place the PA board on top of the insulation sheet and then perform service.

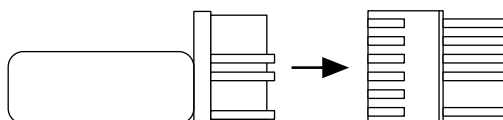
• PA board上のコネクタCN001を外した時の注意

PA board上のコネクタCN001を外した場合、電源部コンデンサのチャージを放電するために、専用治具(放電治具: J-640-705-0A)を使用します。CN001を再接続するときに下記の手順でチャージを放電してください。充分放電せずに再接続した場合、PA boardが破壊することがあります。

1. 電源をOFFにする。
2. 図のように放電治具(J-640-705-0A)を接続し3分以上放電する。
3. 放電治具を外し線材をCN001に接続する。

放電治具 (J-640-705-0A)
discharge jig (J-640-705-0A)

CN001へ接続するコネクタ
The connector to be connected to CN001



• Precaution when the connector CN001 on the PA board is disconnected.

When the connector CN001 on the PA board is disconnected, use the dedicated jig (discharge jig J-640-705-0A) to discharge the capacitor of the power supply block before re-connecting the connector CN001.

Before re-connecting the connector CN001, discharge the capacitor of the power supply block as follows.

If the connector CN001 is re-connected without full discharge, the PA board may be damaged.

1. Turn off the power.
2. Connect the discharge jig (J-640-705-0A) as shown and keep discharging for more than 5 minutes.
3. Remove the discharge jig and connect the connector CN001.

- (6) **REMOTE board, ST IN boardサービス上の注意**
REMOTE board, ST IN boardを筐体から外した状態で動作を確認する場合、REMOTE boardはTP101, ST IN boardはJS501に半田を盛りショートさせてください。サービス終了後は必ず半田を取り除いてください。

(7) **DSP動作確認**

DSP基板にはDSP動作確認LEDがあり、このLEDの点灯にてDSP1 (IC103), DSP2 (IC107)の動作を確認することができます。

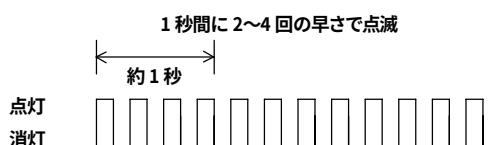
- **DSP1 (IC103), DSP2 (IC107)とも正常に動作している場合**



- **DSP1 (IC103)のみ動作している場合**



- **DSP2 (IC107)のみ動作している場合**



- **DSP1 (IC103), DSP2 (IC107)とも動作していない場合**
消灯したままになります。

(8) **USB通信確認**

DSP基板にはUSB通信確認LEDがあり、このLEDの点灯にてIC125(USB INTERFACE)とUSB端子に接続されているPCの通信状態を確認することができます。

- D101 (緑) : USB端子からのデータを受信した場合に点灯します。
D102 (赤) : USB端子へデータを送信した場合に点灯します。

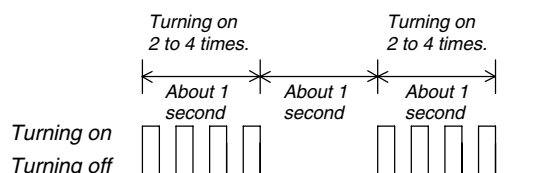
- (6) **Note when servicing the REMOTE board and the ST IN board.**

When you want to work the REMOTE board and the ST IN board after they are removed from the cabinet, short-circuit TP101 on the REMOTE board and short-circuit JS501 on the ST IN board by soldering.
Upon completion of servicing, be sure to remove soldering.

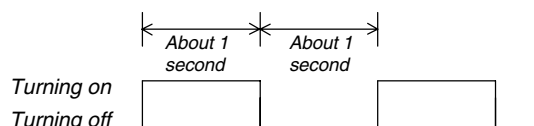
(7) **DSP Operation Confirmation Method**

The DSP board has the DSP operation confirmation LEDs. You can confirm operation of the DSP1 (IC103) and DSP2 (IC107) from on/off of the LEDs.

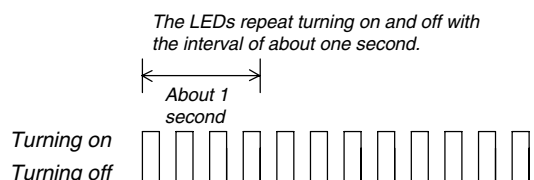
- When both of the DSP1 (IC103) and DSP2 (IC107) are operating normally:



- When only the DSP1 (IC103) is operating:



- When only the DSP2 (IC107) is operating:



- When both of the DSP1 (IC103) and DSP2 (IC107) are not operating:
The LEDs keep turning off.

(8) **USB Communication Confirmation Method**

The DSP board has the USB communication confirmation LED. You can confirm the communication state between IC125 (USB INTERFACE) and the PC that is connected to the USB terminal.

D101 (green) : Lights when it receives data from the USB terminal.

D102 (red) : Lights when it sends data to the USB terminal.

SECTION 2 GENERAL

主な特長

オーディオミキサー、RGB/ビデオスイッチャー、プロセッサ、パワーアンプを3Uサイズに収めた多機能デジタルワードミキサーです。

デジタルミキサー搭載

24bit/48kHzサンプリングのA/D、D/Aコンバーターと高性能DSPを搭載。一般のミキサーがもつ機能に加え、チャンネル独立のフィードバックリデュースやオートマチックミキシングなど、デジタルならではの多機能を実現しました。

豊富なオーディオ入出力端子

6系統のマイク入力、2系統のステレオライン入力を10系統の出力に自由に出力できます。

RGB/コンポーネント信号に対応

コンボジット/Sビデオ入力を3系統、RGB/コンポーネント入力を3系統装備しています。これによりRGB、VIDEOスイッチャーに用意することなくシンプルなシステムを実現できます。コンポーネント信号は480p、1080iなどのハイレゾリューション信号にも対応。RGBはSXGA(1280×1024ピクセル)に対応します。

省電力デジタルアンプを搭載

150W+150W(8Ω)、200W+200W(4Ω)のパワーアンプを搭載。従来比約2/3の定格消費電力を実現しています。またハイインピーダンススピーカー 150W(70V LINE 32Ω)にも対応しています。

5.1ch対応のオーディオ入力

LINE4 INPUT端子の4D、4E入力は5.1ch入力に対応。

便利な外部リモート端子

- ・RS-232C端子を装備
外部コンピュータやシステムコントローラから本機の操作がおこなえます。また、ソニー製プロジェクターやプラスマディスプレイの電源ON/STANDBYや入力の切り換えがおこなえます。
- ・コントロールS出力端子を装備
ソニー製AV機器の基本操作(再生、停止、早送り、巻き戻し等)がおこなえます。
- ・パラレル入出力端子を装備
入力端子では本機の入力切換、音量調整、シーンリコールなどが、出力端子ではスクリーンや照明機器などの環境機器の操作、本機の状態表示などがおこなえます。

800MHz帯ワイヤレスチューナーユニットWRU-806(別売)を2台装備可能

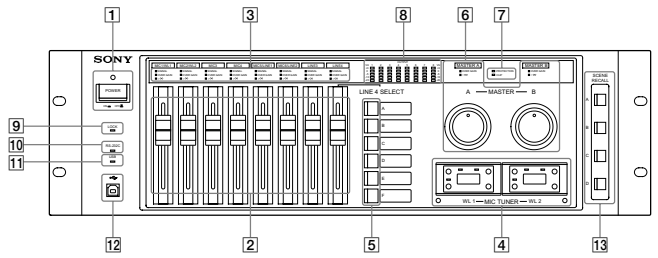
EIA規格19インチラックにマウント可能(3Uサイズ)

付属のソフトウェアにより設定・操作が可能

本機の基本操作(音量調整、入力切換、シーンリコール)とソニー製DVD/VTR/CD/MDの基本操作(再生、停止、早送り、巻き戻し等)を外部コンピュータから集中しておこなえるUser Control Panelと、本機の内部設定をおこなうSRP-X700P Managerを付属のCD-ROMに収録。

各部の名称と働き

前面



1 POWER(電源) ボタンと電源表示インジケータ

押すと電源が入ります。電源がオンのときに、電源表示インジケータが緑に点灯します。
SRP-X700P Managerの設定により、接続しているプロジェクターやディスプレイを本機と連動して電源オン、電源スタンバイすることが出来ます。
工場出荷時、プロジェクター、ディスプレイの電源は本機と連動するよう設定されています。
本機の電源をオンにするAV機器の電源をオンにします。ただし、電源オフのときはAV機器の電源スタンバイはおこないません。

2 インプットフェーダー

・MIC1/WL1、MIC2/WL2フェーダー
MIC1/WL1、MIC2/WL2入力端子の信号レベルを調整します。
ワイヤレスマイクと有線マイクのどちらかを使用する事ができます。ワイヤレスチューナーが信号を受信すると自動的にワイヤレスマイクが選択されます。
・MIC3、MIC4フェーダー
MIC3/MIC4入力端子の信号レベルを調整します。
・MIC5/LINE1、MIC6/LINE2フェーダー
MIC5/LINE1、MIC6/LINE2入力端子の信号レベルを調整します。裏面のMIC/LINE切り換えボタンにより基準入力レベルの切り換えがおこなえます。
工場出荷時はLINEに設定されています。
・LINE3、LINE4フェーダー
LINE3、LINE4入力端子の信号レベルを調整します。
インプットフェーダーはムービングタイプではありません。

3 インプットインジケータ

・SIGNALインジケータ
各入力端子に信号が入力されると緑に点灯します。
・OVER GAINインジケータ
入力レベルがSRP-X700P Managerで設定したGAIN LIMITの値を超えたときに赤く点灯します。
工場出荷時、GAIN LIMITは10dBに設定されています。
・∞インジケータ
ミューティング中や入力フェーダーが∞レベルの位置にあるときなど音が出ないときに黄色く点灯します。

4 チューナーユニット用スロット(WL1/2)

800MHz帯ワイヤレスチューナーユニットWRU-806(別売)を装着するスロットです。2台まで装着できます。(装着方法については7ページをご覧ください。)
チューナーユニットの取扱については、WRU-806の取扱説明書もよくお読みください。

5 LINE 4 SELECTボタン

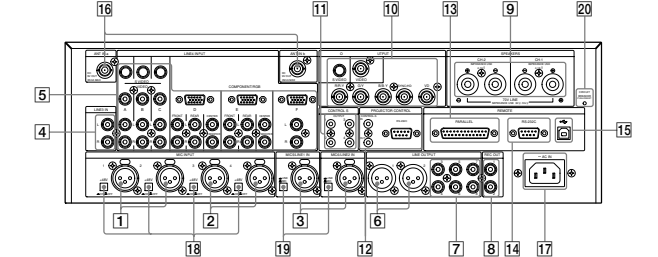
LINE 4 A～F入力端子に接続された機器を選択します。

6 マスターボリューム

グループ化されたフェーダーを操作できるボリュームです。
操作するフェーダーはSRP-X700P Managerで設定します。
工場出荷時、MASTER AにはMIC1～MIC4、MASTER BにはMIC5/LINE1～LINE4の入力フェーダーが設定されています。
マスターボリュームはムービングタイプではありません。
・OVER GAINインジケータ
信号レベルがSRP-X700P Managerで設定したGAIN LIMITの値を超えたときに赤く点灯します。
工場出荷時、GAIN LIMITは10dBに設定されています。
・∞インジケータ
ミューティング中やフェーダーが∞レベルの位置にあるときなど音が出ないときに黄色く点灯します。

各部の名称と働き

裏面



1 MIC INPUT 1, MIC INPUT 2端子

マイク用の入力端子です。
チューナーユニット装着時にはワイヤレスマイク優先です。
ワイヤレスマイクの電源ボタンをONにするまで、ワイヤードマイクが使用できます。

2 MIC INPUT 3, MIC INPUT 4端子

マイク用の入力端子です。

3 MIC5/LINE1 IN, MIC6/LINE2 IN端子

マイク、ライン用の入力端子です。
この入力端子は、19 MIC/LINE切り換えボタンで入力レベルを切り換えることができます。押し込んでマイクレベルを選択すると、コンデンサマイク用ロホン用のDC+48V電源が自動的に供給されます。
工場出荷時はLINEに設定されています。

4 LINE3 IN端子

オーディオ機器用の入力端子です。

5 LINE4 INPUT端子

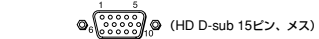
AV機器用の入力端子です。
映像信号は各チャンネルごとにコンボジット信号とSビデオ信号、またはコンポーネント信号とRGB信号のいずれかをSRP-X700P Managerで設定します。
・4A, 4B, 4C入力端子
コンボジット信号、Sビデオ信号の映像入力端子とステレオ音声入力端子です。
工場出荷時はCOMPOSITE信号で-10dBuに設定されています。

・4D, 4E入力端子

コンポーネント信号とRGB信号の映像入力端子と5.1サラウンド音声入力端子です。
工場出荷時、4DはCOMPONENT信号で-10dBu、4EはRGB信号で-10dBuに設定されています。

・4F入力端子

コンポーネント信号とRGB信号の映像入力端子とステレオ音声入力端子です。
工場出荷時はRGB信号で-10dBuに設定されています。
<LINE4 INPUT COMPONENT/RGB端子>



ピン番号	機能	ピン番号	機能
1	映像入力 R(R-Y)	9	N.C
2	映像入力 G/Y	10	接地
3	映像入力 B(B-Y)	11	N.C
4	接地	12	N.C
5	N.C	13	複合同期信号/水平同期信号
6	接地	14	SYNC/H.D
7	接地	15	複合同期信号 VD
8	接地		

6 LINE OUTPUT 1, 2端子

音声出力端子です。

7 LINE OUTPUT 3～8端子

音声出力端子です。

8 REC OUT端子

音声出力端子です。
主にMD等を接続し録音に使用します。

9 SPEAKERS端子

内蔵パワーアンプ出力端子です。
ハイインピーダンススピーカー(70V LINE)も接続できます。(70V LINE時はモノラル出力になります。)出力する信号および動作モードはSRP-X700P Managerで選択します。
工場出荷時、動作モードはLo imp.、出力する信号はLINE OUT1、LINE OUT2に設定されています。接続については12ページのスピーカーとの接続をご覧ください。

7 パワーアンプインジケータ

- ・PROTECTIONインジケータ
内蔵パワーアンプの保護回路が動作したときに赤く点灯します。
- ・CLIPインジケータ
内蔵パワーアンプの出力レベルが過大で、信号が歪んだときに赤く点灯します。

ご注意

PROTECTIONインジケータが点灯したら

次のような場合は、保護回路が動作して(PROTECTIONインジケータが点灯)、出力信号を下げる、またはカットすることによって、スピーカーやアンプを保護します。

- ・アンプ内部の放熱部の温度が規定値を超えた場合。
接続したスピーカーのインピーダンスが低すぎる場合。
空気取排気孔(本体左右側面)がほこりによりふさがれている場合。
- ・SPEAKERS端子をショートした場合。
このような場合はPOWERボタンをOFFにし、原因を取り除いた後にご使用ください。
- ・故障によりDC(直流電圧)がSPEAKERS端子に現れた場合。
POWERボタンをOFFにしたのち、お買い上げ店または添付の「ソニー業務用製品ご相談窓口のご案内」にあるお近くのサービス窓口にご相談ください。

8 レベルメータ

LINE OUTPUT1～8端子の出力信号レベルを5ポイントLEDにて表示します。

9 LOCKインジケータ

SRP-X700P ManagerからフロントパネルのLOCKをおこなうと赤く点灯します。点灯中は誤動作防止のため、フロントパネルからの操作はできません。

10 RS-232Cインジケータ

RS-232Cリモート端子にてコマンド送受信がおこなわれているときに緑に点灯します。

11 USBインジケータ

USB端子にてコマンド送受信がおこなわれているときに緑に点灯します。

12 USB端子

付属のソフトウェア(SRP-X700P Manager, User Control Panel)をインストールしたコンピュータと接続するための端子です。

13 SCENE RECALLボタン

シーンメモリーA～Dの呼び出しをおこないます。
A～Dに割り当てたシーンはSRP-X700P Managerで設定できます。
工場出荷時、AにはシーンNo.1、BにはシーンNo.2、CにはシーンNo.3、DにはシーンNo.4が設定されています。

チューナーユニット

チューナーユニットの装着方法

- 1 本機の電源を切ります。
- 2 チューナーカバーをはずします。

- 3 チューナーユニットの上下面を確認して、スロットに差し込みます。(図1)

チューナーユニット

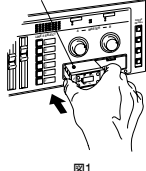


図1

- 4 本機の電源を入れ、別紙「WRU-806チャンネル設定方法」に従って、グループとチャンネルを設定します。グループとチャンネルは使用するワイヤレスマイクと同じにします。
- 5 ワイヤレスマイクの電源スイッチをONにして、受信状態になっていることを確認します。
正常に受信すると、チューナーユニットのRFインジケータが点灯します。マイクの設定チャンネルがチューナーユニットの設定と異なるときは、マイクの電池が消耗しているときは、チューナーユニットのRFインジケータは点灯しませんので注意してください。

チューナーユニットの取り外し方法

- 1 本機の電源を切ります。
- 2 チューナーユニット下方の7にシャフト径2～4mm以内、シャフト長30mm以上のドライバーを差し込み、チューナーユニットを取り出します。(図2)

チューナーユニット

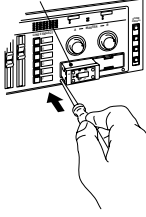


図2

ご注意

装着するときは奥までしっかりと差し込んでください。電源がONのときはチューナーユニットの取り付け・取り外しは絶対に行わないでください。ノイズが出たり、コネクター不良の原因となります。

△注意

チューナーユニット内部に手を入れないでください。

本機からディスプレイ機器を制御するには

本機に接続できるプロジェクターやディスプレイは下記のとおりです。
設定についてはコントロールソフトウェア・マニュアルの17ページ REMOTE画面の項をご覧ください。

機種名	映像端子		RS-232C 制御		CONTROL S 制御	
	X700P側	接続先入力端子	X700P側	接続先リモート端子	X700P側	接続先コントロールS端子
VPL-PX50 VPL-PX21 VPL-PX31 VPL-PX32	SBNC出力端子 S-VIDEO端子 VIDEO端子	INPUT A SBNC端子 VIDEO IN S-VIDEO端子 VIDEO IN VIDEO端子	PROJECTOR CONTROL (RS-232C)端子	RS-232C端子	—	—
PFM-42B1	SBNC出力端子 S-VIDEO端子 VIDEO端子	INPUT1 RGB/YUV端子 INPUT2 RGB/YUV端子 VIDEO COMPOSITE IN端子	PROJECTOR CONTROL (RS-232C)端子	REMOTE用端子	—	—
VPL-PX15 VPL-PX10 VPL-PS10	SBNC出力端子 S-VIDEO端子 VIDEO端子	INPUT A端子 S-VIDEO端子 VIDEO端子	—	—	CONTROL S PROJECTOR OUT端子	CONTROL S/ PLUG IN POWER端子
VPL-CX11 VPL-CX10	SBNC出力端子 S-VIDEO端子 VIDEO端子	INPUT A端子 VIDEO IN S-VIDEO端子 VIDEO IN VIDEO端子	—	—	CONTROL S PROJECTOR OUT端子	CONTROL S IN/ PLUG IN POWER端子
三洋電機 (株) 製 LP-XP45 LP-XP40	SBNC出力端子 S-VIDEO端子 VIDEO端子	INPUT2 SBNC端子 INPUT3 S-VIDEO端子 INPUT3 VIDEO端子	PROJECTOR CONTROL (RS-232C)端子	CONTROL PORT端子	—	—

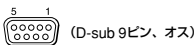
ご注意

上記、対応機種以外についても対応できる場合があります。くわしくはお買い上げ店または、添付の「ソニー業務用製品ご相談窓口のご案内」にある業務用製品ご購入相談窓口へお問い合わせください。上記の対応機種は、2002年4月1日現在のものです。
ご使用されるケーブル長は15m以下でお使いください。

PROJECTOR CONTROL RS-232C端子

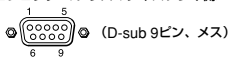
プロジェクターやプラズマディスプレイをRS-232C端子に接続するには
本機の動作に連動してプロジェクターやプラズマディスプレイの電源のON/STANDBYと入力信号切り換えをおこないます。

<SRP-X700P側>



ピン番号	信号	機能
1	FG	フレーム接地
2	RD	受信データ
3	TD	送信データ
4	ER	データ端末レディ
5	SG	信号線グラウンド
6	DR	データセットレディ
7	RS	送信要求
8	CS	送信許可
9	N.C.	未接続

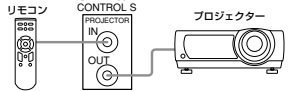
<ソニー製プロジェクター/プラズマディスプレイ側>



ピン番号	信号	機能
1	FG	フレーム接地
2	RX DA	受信データ
3	TX DA	送信データ
4	DTR	データ端末レディ
5	GND	接地
6	DSR	データセットレディ
7	RTS	送信要求
8	CTS	送信許可
9	RI	検呼表示

PROJECTOR CONTROL CONTROL S IN/OUT端子

本機の動作に連動してプロジェクターの電源のON/STANDBYと入力信号切り換えは、自動的にこなわれます。この場合、RGB信号とコンポーネント信号の混在使用はできません。
また、CONTROL S IN端子にプロジェクター付属のワイヤードリモコンを接続することで、本機を通してプロジェクターの設定等をおこなうことができます。
電源供給の関係上、ステレオミニプラグ付きコードを製作してご使用ください。ワイヤードリモコンを電池でお使いの場合は、ミニプラグ付きコードをご使用ください。



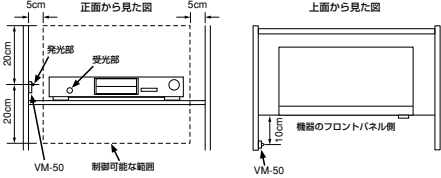
10 本機からAV機器を制御するには

CONTROL S OUTPUT1~4端子に接続しているソニー製機器の制御をおこなうことができます。操作可能なファンクションは下表のとおりです。
ただし、付属のソフトウェアSRP-X700P ManagerおよびUser Control Panelでは誤操作防止のため、REC、POWER ON、POWER STANDBYをおこなうことができません。

	PREV.	NEXT	STOP	REW.	PLAY	F.F.	PAUSE	REC	POWER ON	POWER STANDBY
MD オーディオ用CD-R	○	○	○	○	○	○	○	○	○	○
VTR1 (Beta) VTR2 (8mm) VTR3 (VHS) VTR4 (DV)	—	—	○	○	○	○	○	○	○	○
CD DVD	○	○	○	○	○	○	○	—	○	○

コントロールS入力端子をもたないソニー製機器はAVマウス VM-50 (別売) を用いて制御します。
・制御したい機器のリモコン受光部位置を確認し、下図のようにAVマウスVM-50 (別売) を両面テープで固定します。

設置条件



VM-50をラックの内側に設置し、発光部から受光部を10cm程度後ろに下げ、上下20cm以内で、左右5cm以上離れた位置(図の点線部分)に機器の受光部が来るように設置してください。

ご注意

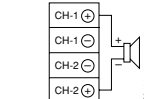
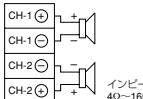
発光部と機器の受光部の間に棚板等の遮蔽物があると赤外線が遮られ、制御できなくなります。

・SRP-X700P ManagerまたはUser Control Panelを操作して、制御できることを確認します。
制御できないときは制御できる位置にAVマウスVM-50を移動してください。

スピーカーとの接続

本機へのスピーカー接続方法は動作モードによって異なります。
70V LINE時はモラル出力になりますので、スピーカーの+端子をSPEAKERS CH-1の+端子(赤色)、スピーカーの-端子をSPEAKERS CH-2の+端子(赤色)へ接続します。

・ローインピーダンス [Lo imp.] 時



ハイインピーダンス [70V LINE] 時に接続できるスピーカーの数は下表のとおりです。

インピーダンス	スピーカー1個あたりに加わる電力	接続可能個数
1kΩ	5W	30
3.3kΩ	1.5W	100
10kΩ	0.5W	300

※ [] 内の表記はSRP-X700P Managerで表示されるものです。

10 映像出力端子

前面のLINE 4 SELECTボタンで選択された映像信号が出力されます。映像信号方式は変換されません。

- ・SBNC出力端子
RGB信号とコンポーネント信号の出力端子です。
- ・VIDEO端子
コンポジット信号の出力端子です。
- ・S-VIDEO端子
Sビデオ信号の出力端子です。

11 CONTROL S OUTPUT 1~4 端子

LINE3 IN端子、LINE4 INPUT端子に接続されたAV機器をリモートコントロールするための端子です。

ご注意
LINE3 IN端子に接続されたAV機器は、付属のソフトウェア User Control Panelからは操作できません。

ソニー製DVD/VTR/CD/MD/オーディオ用CD-Rの再生、停止、早送り、巻き戻し等の基本操作ができます。また各端子ごとに接続方法をワイヤード接続/ワイヤレス接続かをSRP-X700P Managerにて選択します。

12 PROJECTOR CONTROL端子

映像出力端子に接続されたプロジェクターやプラズマディスプレイを制御する端子です。
工場出荷時はRS-232C接続でVPL-FX50を使用する設定がされています。
・RS-232C端子
RS-232C端子を装備したプロジェクターやプラズマディスプレイをRS-232Cで制御する端子です。
・CONTROL S IN/OUT端子
RS-232C端子をもたないプロジェクターをCONTROL Sで制御する端子です。
CONTROL S OUT端子を使用し、プロジェクターを操作する場合はコンポーネント信号とRGB信号の混在使用はできません。

13 REMOTE PARALLEL端子

INPUT 12本、OUTPUT 10本のパラレルリモート端子です。INPUTは外部からの本機の制御、OUTPUTは本機からの外部機器のリモートコントロールに使用します。各端子の機能は付属のソフトウェア SRP-X700P Managerにより選択します。

14 REMOTE RS-232C端子

RS-232Cのリモート端子です。
外部のコントロールなどを接続し、本機をリモートコントロールします。

15 REMOTE USB端子

付属のソフトウェア (SRP-X700P Manager, User Control Panel) をインストールしたコンピュータと接続するための端子です。
ただし、前面のUSB端子を使用中は、前面のUSB端子が優先されます。

本機を外部から制御するには

ご注意

USB端子はSRP-X700P ManagerとUser Control Panel から本機を制御するための専用端子です。

REMOTE RS-232C端子

外部コントローラーから本機を制御するための端子です。通信規約の仕様は次のようになります。

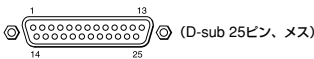
端子形状 : D-sub 9ピン、オス
電気的仕様 : RS-232C規格準拠
推奨ケーブル : データ通信用多芯シールドケーブル
ケーブル長 : 15m以下

通信フォーマット
ボーレート : 9600bps
ビット長 : 8ビット
ストップビット : 1ビット
パリティ : ODD (奇数)

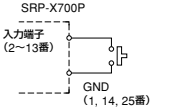
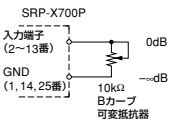
ピン番号	信号	機能
1	FG	フレーム接地
2	RD	受信データ
3	TD	送信データ
4	ER	データ端末レディ
5	SG	信号線グラウンド
6	DR	データセットレディ
7	RS	送信要求
8	CS	送信許可
9	N.C.	未接続

ご注意

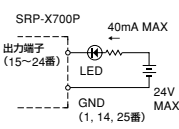
コンピュータと接続するときにはクロスケーブルを用いください。



<入力回路の例>



<出力回路の例>



ご注意

出力端子に逆電圧はかけないでください。

ピン番号	機能
1	GND
2	INPUT1
3	INPUT2
4	INPUT3
5	INPUT4
6	INPUT5
7	INPUT6
8	INPUT7
9	INPUT8
10	INPUT9
11	INPUT10
12	INPUT11
13	INPUT12
14	GND
15	OUTPUT1
16	OUTPUT2
17	OUTPUT3
18	OUTPUT4
19	OUTPUT5
20	OUTPUT6
21	OUTPUT7
22	OUTPUT8
23	OUTPUT9
24	OUTPUT10
25	GND

13

14

15

故障かな？と思ったら

サービス窓口にご相談になる前に下記の項目をもう1度チェックしてみてください。それでも具合の悪いときは、ソニーのサービス窓口にご相談ください。

付属のソフトウェア SRP-X700P Managerを起動して本体の設定を確認してください。それでも解決できないときは以下の項目をチェックしてください。

症状	原因/対処
電源が入らない	・ 電源コードが抜けている。 → 電源コードをAC IN端子とコンセントに奥までしっかり差し込んでください。
音が出ない	・ インプットフェーダーが下がっている。 → インプットフェーダーを上げてください。 ・ マスターボリュームが下がっている。 → マスターボリュームを上げてください。 ・ ROUTINGの設定が適切でない。 → SRP-X700P Managerで正しく設定してください。
マイクの音が出ない	・ MIC/LINE切り換えボタンがLINEになっている。 → MIC/LINE切り換えボタンをMICにしてください。
音が歪む	・ MIC5/LINE1 IN, MIC6/LINE2 IN端子にLINE機器を接続してMIC/LINE切り換えボタンがMICになっている。 → MIC/LINE切り換えボタンをLINEにしてください。
映像が出ない	・ 映像入力信号の設定が適切でない。 → 映像入力信号を正しく設定し直してください。
RS-232Cで本機をコントロールできない	・ ケーブルの結線方法が本機の仕様に合わせていない。 ・ RS-232Cの各パラメーター設定が本機の仕様に合わせていない。 → 「REMOTE RS-232C端子」(11ページ)に従って接続してください。
PROTECTIONインジケーターが点灯している	・ 故障によりDC(直流電圧)がSPEAKER端子に現れた場合。 → POWERスイッチをOFFにします。 ・ アンプ内部の放熱器の温度が規定値を超えた場合。 接続したスピーカーのインピーダンスが低すぎる。 → POWERスイッチをOFFにして、適正なインピーダンスのスピーカーに接続し直します。 空気吸排気孔(本機左右側面)がほこりによりふさがれている。 → 掃除機などでほこりを取り除いてください。 ・ SPEAKER端子がショートしている。 → POWERスイッチをOFFにして、ショートの原因を取り除きます。

REMOTE		
項目		初期設定値
PARALLEL I/O	INPUT	INPUT1 AV SEL A
		INPUT2 AV SEL B
		INPUT3 AV SEL C
		INPUT4 AV SEL D
		INPUT5 AV SEL E
		INPUT6 AV SEL F
		INPUT7 RECALL 1
		INPUT8 RECALL 2
		INPUT9 RECALL 3
		INPUT10 LVL Master A
		INPUT11 LVL Master B
		INPUT12 NONE
	OUTPUT	OUTPUT1 AV SEL A
		OUTPUT2 AV SEL B
		OUTPUT3 AV SEL C
		OUTPUT4 AV SEL D
		OUTPUT5 AV SEL E
		OUTPUT6 AV SEL F
		OUTPUT7 RECALL 1
		OUTPUT8 RECALL 2
		OUTPUT9 RECALL 1
		OUTPUT10 RECALL 2
MACHINE CONTROL	LINE3	MACHINE TYPE MD CTRL S OUTPUT CH 1
	LINE4A	MACHINE TYPE VTR3(VHS) CTRL S OUTPUT CH 2
	LINE4B	MACHINE TYPE VTR4(DV) CTRL S OUTPUT CH 2
	LINE4C	MACHINE TYPE NONE CTRL S OUTPUT CH 1
	LINE4D	MACHINE TYPE DVD CTRL S OUTPUT CH 3
	LINE4E, LINE4F	MACHINE TYPE NONE CTRL S OUTPUT CH 1
	CONNECTION TYPE	CH1 WIRED
		CH2 WIRED
		CH3 IR
		CH4 WIRED
PROJECTOR CONTROL	I/F TYPE	RS-232C
	PROJECTOR PROTOCOL	VPL-FX50
	REMOTE POWER ENABLE	ON
	INPUT VIDEO TYPE	LINE4A - LINE4C VIDEO LINE4D COMPONENT LINE4E, LINE4F RGB

GROUP FADER	
項目	初期設定値
MASTER A	MIC1/WL1, MIC2/WL2, MIC3, MIC4
MASTER B	MIC5/LINE1, MIC6/LINE2, LINE3, LINE4
REMOTE1 - REMOTE6	アサインなし

Features

The SRP-X700P is a versatile digital powered mixer that incorporates an audio mixer, RGB/video switcher, processor and power amplifier in the 3U rack size.

Built-in digital mixer

The digital mixer incorporates A/D and D/A converters operating at 24 bit/48 kHz sampling and a high-performance DSP. In addition to the usual functions of conventional ordinary audio mixers, the SRP-X700P offers functions such as a feedback reducer in the independent channel and automatic mixing by using digital technology.

Many audio input/output terminals

Six microphone input systems and two stereo line input systems can be freely assigned to ten output systems.

Support for RGB/Component signals

The SRP-X700P is equipped with three composite/S-video input systems and three RGB/component input systems. This broad input system eliminates need for a separate RGB switcher and video switcher and enables simple system configuration. The SRP-X700P supports high-resolution component signals such as 480 p and 1080 i, and also supports SXGA[®] (1280 × 1024 pixels) of RGB signals.

Built-in power-saving digital amplifier

A power amplifier of 150 W + 150 W (8 Ω) or 200 W + 200W (4 Ω) is incorporated. The rated power consumption is almost two-thirds that of the conventional amplifier. The SRP-X700P also supports high impedance speakers 150 W (70 V LINE, 32 Ω).

Support for 5.1-channel audio input

4D and 4E INPUT terminals of LINE4 INPUT terminal support 5.1-channel audio input.

Useful external remote terminal

- **RS-232C terminal**
This terminal enables outside personal computer and system controller to control various operations of the SRP-X700P. This terminal can also be used to turn on the power of a Sony projector and plasma display, or put it in STANDBY. It also can be used to select the input signals.
- **Equipped with Control S output terminal**
Basic operations (playback, stop, fast forward, rewind, etc.) of the Sony AV products are possible.
- **Equipped with parallel input and output terminals**
Input selection, volume control and scene control of the SRP-X700P can be performed in the input terminal. Operation of environment equipment such as screen and lighting, and the status display of the SRP-X700P can be performed via the output terminal.

Installation of two systems of 800 MHz band wireless tuner units WRU-806B (option)

Mountable in the EIA standard 19-inch rack (occupying 3U size)

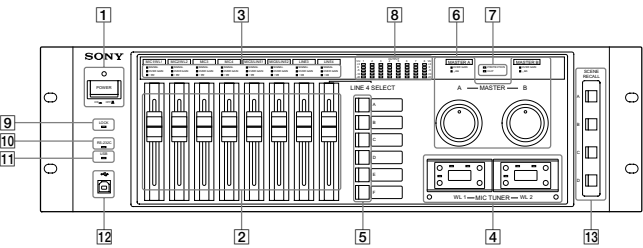
Setting up and operating the SRP-X700P using the supplied software

The CD-ROM supplied with the SRP-X700P contains two software applications. One is the User Control Panel that enables an external personal computer to perform basic operations (sound volume adjustment, input selection and scene control) of the SRP-X700P and also the basic operations (playback, stop, fast forward, rewind, etc.) of a Sony DVD, VCR, CD and MD. The other is SRP-X700P Manager, which enables you to perform internal settings of the SRP-X700P.

^① SXGA are registered trade marks of the International Business Machines Corporation, U.S.A.

Location and function of parts

Front panel



1 POWER button and POWER indicator

Pressing the POWER button turns on the power. The POWER indicator lights in green when the power turns on.

You can switch the projectors and displays connected to the SRP-X700P to power-on state or to power standby state from the SRP-X700P as they are interlocked by the SRP-X700P Manager setup.

By default when shipped from the factory, the projectors and displays powers are interlocked with the POWER button of the SRP-X700P.

Turning on the POWER button of the SRP-X700P sets the AV equipment connected to the CONTROL S OUT terminals 1 through 4, to power-on state. Note that the AV equipment does not enter the power standby state when the POWER button of the SRP-X700P is turned off.

2 Input faders

• MIC1/WL1 and MIC2/WL2 faders

Adjusts the level of the signals supplied from the MIC1/WL1 and MIC2/WL2 input terminals. Either a wireless microphone or wired microphone can be connected. When the wireless tuner receives the signal, the wireless microphone is selected automatically.

• MIC3 and MIC4 faders

Adjusts the level of the signals supplied from the MIC3 and MIC4 input connectors.

• MIC5/LINE1 and MIC6/LINE2 faders

Adjusts the level of the signals supplied from the MIC5/LINE1 and MIC6/LINE2 input terminals. The MIC/LINE selector button on the rear panel can be used to switch the reference input level.

By default, LINE4 is selected.

• LINE3 and LINE4 faders

Adjusts the level of the signals supplied from the LINE3 and LINE4 input terminals.

These input faders are not the "moving" type.

3 Input indicators

• SIGNAL indicator

The SIGNAL indicator lights in green when a signal is input to each input terminal.

• OVER GAIN indicator

The OVER GAIN indicator lights in red when the input level exceeds the GAIN LIMIT value that is set up by the SRP-X700P Manager. By default, the GAIN LIMIT is set to 10 dB.

• ∞ indicator

The ∞ indicator lights in yellow when no audio is output in such cases as muting or when the INPUT fader is located at the ∞ level position.

4 Tuner slots (WL 1/2)

This slot accepts the 800 MHz band wireless tuner unit WRU-806B (option). It accepts up to two units. (For installation, refer to page 8.) The WRU-806B Operating Instructions provide full details on operating the tuner unit. For operation of the tuner unit, read the WRU-806B Operating Instructions thoroughly.

5 LINE 4 SELECT button

You can select a device to be connected to the input connectors from A to F of LINE 4.

6 Master volume

With the master volume, you can control multiple faders that are set as a single group. The faders to be controlled by the master volume are set by the SRP-X700P Manager. By default, the MASTER A is set to MIC1 to MIC4 input faders, and the MASTER B is set to LINE1 to LINE4 input faders.

The master volume is not the "moving" type.

• OVER GAIN indicator

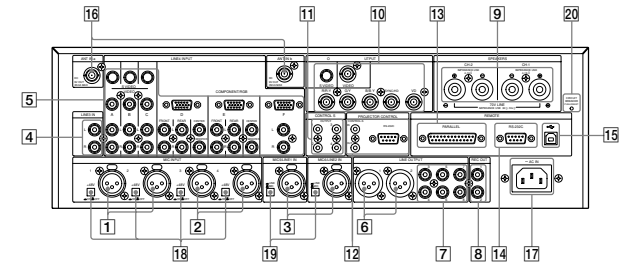
The OVER GAIN indicator lights in red when the input level exceeds the GAIN LIMIT value that is set by the SRP-X700P Manager. By default, the GAIN LIMIT is set to 10 dB.

• ∞ indicator

The ∞ indicator lights in yellow when no audio is output in such cases as muting or when the INPUT fader is located at the ∞ level position.

Location and function of parts

Rear panel



1 MIC INPUT 1 and MIC INPUT 2 terminals

The microphone input terminals. The wireless microphone has the first priority when the tuner unit is installed. You can use the wired microphone up until you turn ON the POWER button of the wireless microphone.

2 MIC INPUT 3 and MIC INPUT 4 terminals

The microphone input terminals.

3 MIC 5/LINE 1 IN and MIC 6/LINE 2 IN terminals

The microphone and line input terminals. You can select the input level of these input terminals with the MIC/LINE selector button. When you select the microphone level by pressing the selector button, the DC +48 V power is supplied to the condenser microphone automatically. By default, they are set to the LINE.

4 LINE 3 IN terminals

The input terminals for audio products.

5 LINE 4 INPUT terminals

The input terminals for AV equipment. As to the video input signals, the combination of composite signal and S-video signal or the combination of component signal and RGB signal is selected by the SRP-X700P Manager for each channel.

• 4A, 4B and 4C input terminals

The video input terminals for accepting the composite and S-video signals, and the stereo audio input terminal. By default, they are set to -10 dBu with the composite signal.

• 4D and 4E input terminals

The video input terminals for accepting the component and RGB signals, and the audio input terminal accepting the 5.1-channel surround audio signal. By default, 4D is set to -10 dBu with the component signal and 4E is set to -10 dBu with the RGB signal.

• 4F input terminal

The video input terminals for accepting the component and RGB signals, and the stereo audio input terminal. By default, it is set to -10 dBu with the RGB signal.

<LINE4 INPUT COMPONENT/RGB terminals>



Pin No.	Function	Pin No.	Function
1	Video input R/R-Y	9	N.C
2	Video input G/Y	10	GND
3	Video input B/B-Y	11	N.C
4	GND	12	N.C
5	N.C	13	Composite sync signal/ horizontal sync signal, SYNC/HD
6	GND	14	Vertical sync signal VD
7	GND	15	N.C
8	GND		

6 LINE OUTPUT 1 and LINE OUTPUT 2 terminals

The audio output terminals.

7 LINE OUTPUT 3 to LINE OUTPUT 8 terminals

The audio output terminals.

8 REC OUT terminal

The audio output terminal. Usually, connect this terminal to an MD unit for recording.

9 SPEAKERS terminal

The output terminal of the internal power amplifier. You can connect a high impedance speaker (70 V LINE). (In the case of high impedance speaker 70 V LINE, the output signal becomes monaural.) You can select the output signal and operating mode with the SRP-X700P Manager. By default, the operating mode is set to Lo impedance and the output signal is set to LINE OUT1 and LINE OUT2. For the speaker connection, see "Connecting the Speaker" on page 11.

7 Power amplifier indicators

• PROTECTION indicator

The PROTECTION indicator lights in red when the protection circuit of the internal power amplifier works.

• CLIP indicator

The CLIP indicator lights in red when the output level of the internal power amplifier is excessive such that the output signal is distorted.

Notes

When the PROTECTION indicator lights

The protection circuit operates (PROTECTION indicator lights) and the speaker and amplifier are protected from damage by decreasing or cutting the output signal in case of the following:

- If the temperature of the heat sink inside the amplifier exceeds the specified value.
The connected speaker impedance is too low.
Air intake and exhaust holes (on the right and left sides of the SRP-X700P) are choked by dust.
- The SPEAKERS terminal is short-circuited.
In such a case, turn the POWER button to the OFF position and remove the cause of the fault before using the unit again.
- If DC voltage appears in the SPEAKERS terminal due to failure.
Turn off the POWER button and contact your local Sony Sales office or Dealer.

8 Level meters

Displays the output signal levels of the LINE OUTPUT 1 to LINE OUTPUT 8 terminals, with the 5-point LED.

9 LOCK indicator

The LOCK indicator lights in red when the SRP-X700P Manager locks the front panel to prevent illegal operation. While lit, you cannot operate from the front panel.

10 RS-232C indicator

The RS-232C indicator lights in green when a command is sent or received through the RS-232C remote terminal.

11 USB indicator

The USB indicator lights in green when a command is sent or received through the USB terminal.

12 USB terminal

Connect the SRP-X700P to a computer in which the supplied software (SRP-X700P Manager and User Control Panel) is installed using the USB terminal.

13 SCENE RECALL button

You can recall the scene memories A to D. Use the SRP-X700P Manager to assign the scenes to the scene memories A to D. By default, the scene memory A is assigned to scene No. 1, the scene memory B is assigned to scene No. 2, the scene memory C is assigned to scene No. 3 and the scene memory D is assigned to scene No. 4.

- 10 Video output terminals**
The video signal that is selected by the LINE 4 SELECT button on the front panel is output from this terminal. (The video signal format is not converted from each other.)
- SBNC output terminal**
The RGB and component signal output terminals.
 - VIDEO terminal**
The composite signal output terminal.
 - S-VIDEO terminal**
The S-VIDEO signal output terminal.

11 CONTROL S OUTPUT 1 to CONTROL S OUTPUT 4 terminals

You can control AV equipments connected to the LINE 3 IN terminal and LINE 4 INPUT terminal by remote control through these terminals.

Note

The AV equipment connected to the LINE3 IN terminal cannot be controlled from supplied software User Control Panel.

You can perform the basic operations of Sony DVD, VCR, CD, MD and CD-R audio, such as playback, stop, fast forward and rewind. You can select either the wired connection or the wireless connection for each terminal from the SRP-X700P Manager.

12 PROJECTOR CONTROL terminals

The SRP-X700P can controls a applicable projector and plasma display connected to the video output terminals from this terminal.

By default, connection to use the VPL-FX50 is set through RS-232C.

- RS-232C terminal**
This terminal is for a projector or plasma display having the RS-232C terminal.

- CONTROL S IN/OUT terminal**
The SRP-X700P can control a projector without the RS-232C terminal through the CONTROL S.

When controlling a projector using the CONTROL S OUT terminal, mixed use of the component signal and the RGB signal is not possible.

13 REMOTE PARALLEL terminal

The parallel remote terminal contains 12 INPUTs and 10 OUTPUTs.

You can control the SRP-X700P from external remote equipment using the INPUT parallel remote pins. You can control the external remote equipment from the SRP-X700P using the OUTPUT parallel remote pins. You can select the functions of the respective terminals using the supplied SRP-X700P Manager software.

14 REMOTE RS-232C terminal

The RS-232C remote terminal.
You can control the SRP-X700P with external equipment connected to the RS-232C terminal from a remote location.

15 REMOTE USB terminal

You can connect a personal computer in which the supplied software (SRP-X700P Manager and User Control Panel) is installed, to the SRP-X700P through the USB terminal. Note that the USB terminal on the front panel has priority if the USB terminal on the front panel is being used.

16 ANT IN terminal

The antenna input terminal for the wireless tuner.
Connect a UHF antenna of the AN-820A (option).
9V power is supplied from this terminal as the power for the antenna booster. Do not connect any antenna other than the AN-820A, otherwise the system may not work or may cause failure.

Note

For details of installation and connection of an antenna, thoroughly read the operating instructions supplied with the antenna.

If the antenna is not installed correctly, it may cause defective reception resulting in intermittent sound. Especially, if the location cannot be changed easily after installing the antenna, check the operations thoroughly prior to installation.
Connect the antenna using coaxial cable having the impedance of 50 Ω. The maximum length of the cable is approximately 50 m with 5D-FB. Do not use the cable of a 75 Ω system such as 5C-2V, as its maximum length is half that of the 5D-FB and it may cause a trouble.

If noise occurs:

There can be a case that a specific channel cannot be used due to external noise or the noise caused by interference radio wave depending on the installation location. In such a case, find a channel that does not illuminate the RF indicator when the wireless microphone power and the transmitter power are turned off (i.e., the channel that is not adversely affected by noise and interference radio wave). Use the unaffected channel. Select the same unaffected channel for the wireless microphone and the transmitter.

17 AC IN terminal

Connect the power cord supplied to this terminal.

18 +48 V button

Press this button to supply the DC +48V condenser microphone power to the MIC INPUT 1 to MIC INPUT 4 terminals. When this button is pressed ON (△), DC +48 V is output.

By default, this button is set to OFF (□).

19 MIC/LINE selector button

You can select the input level of the MIC/S/LINE 1 IN and MIC 6/LINE 2 IN terminals with this button. (Refer to page 18.)
Also, when this button is set to the (+48 V) MIC (△) position, the DC +48 V condenser microphone power is output automatically.

By default, this button is set to LINE (□).

Notes

- The depressed position, which is the ON position, of both the +48 V button and the MIC/LINE selector button is lower than the face of the rear panel. The depressed ON position is designed intentionally to prevent mis-operation.
- Before you make any attempt to disconnect and connect cables or to press any of the +48 V button, MIC/LINE selector button or other buttons, be sure to decrease the input fader completely or to turn off the power.

20 CIRCUIT BREAKER

The circuit breaker works to turn off the main power of this unit if an excessive current flows in the power supply of this unit. If the circuit breaker trips, please contact your local Sony Sales office or Dealer.

Tuner Unit

How to install the tuner unit

- Turn off the power of this unit.
- Remove the tuner cover.
- Check the up and down sides of the tuner unit, and insert it into the slot. (Fig. 1)

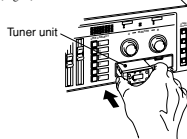


Fig. 1

- After installation of the tuner unit, turn on the power of the unit and turn on the power of the wireless microphone to check it is receiving. While receiving, the RF/SIGNAL indicator lights up. Note that the RF/SIGNAL indicator will not light up when the setting channel of the microphone is different from the setting of the tuner unit, or when the microphone power is consumed.

Notes

- Take the following precautions to prevent interference and noise.
 - If there is a TV broadcasting station nearby, to avoid possible interference from its broadcasting, do not use that station's channel.
- When simultaneously using two tuners, always set the tuners to different channels within the same group (other than group 00).
- Please make a choice of model in accordance with your area to use picking up an unused TV channel.
- Make sure that the channel selected on the microphone is the same as that selected on the tuner being used in the same system.

How to remove the tuner unit

- Turn off the power of this unit.
- Insert a screwdriver having the shaft diameter of 2 to 4 mm or less with shaft length of 30 mm or longer, into the hole under the lower part of the tuner slot as shown. Remove the tuner unit. (Fig. 2)

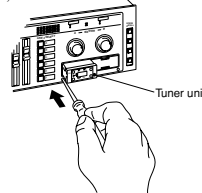


Fig. 2

Note

Insert it deeply into the slot.
Do not insert or remove the tuner unit while the power is on. This may cause noise or malfunction of the connector.

CAUTION

To prevent breakdown or injury, do not put your hand inside of the slot.

8

How to Control the SRP-X700P from External Equipment

Note

The USB terminal is the dedicated terminal to control this unit from the SRP-X700P Manager and User Control Panel.

REMOTE RS-232C Terminal

Use of this terminal enables you to control the SRP-X700P from an external controller.

The specifications of the communication protocol are shown below.

Terminal shape	: D-sub 9-pin, male
Electrical specifications	: Conforms to RS-232C standard
Recommended cable	: Multi-core shielded cable for data communication
Cable length	: 15 m or less
Communication format	: 9600 bps
Baud rate	: 8 bits
Bit length	: 1 bit
Stop bit	: ODD (odd number)

Pin No.	Signal	Function
1	FG	Frame ground
2	RD	Receive data
3	TD	Send data
4	ER	Data terminal ready
5	SG	Signal line ground
6	DR	Data set ready
7	RS	Request to send
8	CS	Clear to send
9	N.C	Not connected

Note

Use the null modem cable when connecting the SRP-X700P with computer.

REMOTE PARALLEL Terminal

The REMOTE PARALLEL terminal enables the SRP-X700P to be remotely controlled with a simple circuit connected externally to this terminal.

INPUT terminal

You can set the functions of the respective terminals from the PARALLEL INPUT FUNCTION setup box in the REMOTE screen of the supplied SRP-X700P Manager software.

All faders and sound volume controls can be controlled from a remote location by connecting a variable resistor as shown, in the range of 0 to -∞ dB.

- You can perform the following operations by adding a make contact.
 - Input selection of LINE 4 system
 - Muting
 - Scene recall
 - Sound volume adjustment (Up/Down)
- Controlling the AV equipment connected to the CONTROL S terminal
- Power-ON/STANDBY selection of a projector

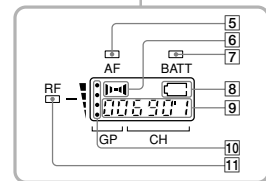
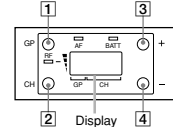
OUTPUT terminal

The turning ON conditions of the respective pins of the OUTPUT terminal can be set from the following.

- Input selector state of LINE 4 system
- Turning ON the OVER and -∞ indicators
- Turning ON the scene recall button
- Generation of the Power-ON/STANDBY command of a projector

You can select the ON conditions from the PARALLEL OUTPUT FUNCTION setup box on the REMOTE screen of the supplied SRP-X700P Manager software.

Please refer to the table Sony 800 MHz-band system models frequency range in the Operating Manual of Wireless Microphone or Transmitter.



1 GP (group) button

To change the group, press the + or - button while holding this button down.

2 CH (channel) button

To change the channel in a group, press the + or - button while holding this button down.

3 + button

To go to a higher group or channel, press this button while holding the GP or CH button.

Press this button changes the indication from GP/CH to frequency.

4 - button

To go to a lower group or channel, press this button while holding the GP or CH button.

5 AF (audio frequency) indicator

6 AF (audio frequency) level indications

The indicator lights and the indications appear when the audio output level is higher than the reference level.

7 BATT (battery) indicator

8 BATT (battery) indication

Indicate the condition of the wireless microphone transmitter batteries. The indicator and indication appear and start flashing about one hour before the transmitter batteries go flat. The time at which flashing begins will depend on the type of battery used in the transmitter, and its condition.

9 GP/CH (group/channel) indication

Shows the reception channel group and respective channel number.
Pressing the + button changes this indication to the frequency indication.

10 RF (ratio frequency) level indications

11 RF (ratio frequency) indicator

The indicator lights and the indications (dots) appear when the antenna reception is optimal. Depending on the RF input level, the number of dots changes.

How to Control the Display from the SRP-X700P

You can connect the following projectors and displays to the SRP-X700P.

For setting the projectors and displays, refer to the "REMOTE Screen" described on page 14 of the Control Software Manual.

Model name	Video terminal		RS-232C control		CONTROL S control	
	X700P side	Input terminal of connection destination	X700P side	Remote terminal of Connection destination	X700P side	Control S terminal of connection destination
VPL-FX50	SBNC output terminal	INPUT A SBNC terminal	PROJECTOR CONTROL (RS-232C) terminal	RS-232C terminal	_____	_____
VPL-PX21	S-VIDEO terminal	VIDEO IN S-VIDEO terminal	_____	_____	_____	_____
VPL-PX31	VIDEO terminal	VIDEO IN VIDEO terminal	_____	_____	_____	_____
VPL-PX32	SBNC output terminal	INPUT1 RGB/YUV terminal	PROJECTOR CONTROL (RS-232C) terminal	REMOTE terminal	_____	_____
PFM-42B1	S-VIDEO terminal	INPUT2 RGB/YUV terminal	PROJECTOR CONTROL (RS-232C) terminal	_____	_____	_____
	VIDEO terminal	VIDEO COMPOSITE IN terminal	_____	_____	_____	_____
VPL-PX15	SBNC output terminal	INPUT A terminal	_____	_____	CONTROL S PROJECTOR OUT terminal	CONTROL S/ PLUG IN POWER terminal
VPL-PX10	S-VIDEO terminal	S-VIDEO terminal	_____	_____	_____	_____
VPL-PS10	VIDEO terminal	VIDEO terminal	_____	_____	_____	_____
	SBNC output terminal	INPUT A terminal	_____	_____	_____	_____
VPL-CX11	S-VIDEO terminal	VIDEO IN S-VIDEO terminal	_____	_____	CONTROL S PROJECTOR OUT terminal	CONTROL S IN/ PLUG IN POWER terminal
VPL-CX10	VIDEO terminal	VIDEO IN VIDEO terminal	_____	_____	_____	_____
LP-XP45	SBNC output terminal	INPUT2 SBNC terminal	PROJECTOR CONTROL (RS-232C) terminal	CONTROL PORT terminal	_____	_____
LP-XP40 made by Sanyo Electric	S-VIDEO terminal	INPUT3 S-VIDEO terminal	_____	_____	_____	_____
	VIDEO terminal	INPUT3 VIDEO terminal	_____	_____	_____	_____

Note

Models other than those above may be supported. For details, please contact your local Sony Sales office or Dealer.

List of the supported models shown above is as of April 1st, 2002.

Maximum RS-232C cable length is 15 m or less.

PROJECTOR CONTROL CONTROL S IN/OUT Terminal

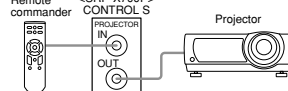
To connect the RS-232C terminal of applicable projectors and that of plasma display to this terminal;

This model can switch the input signals and power ON/STANDBY of the projector and plasma display in interlocked condition.

<SRP-X700P side> (D-sub 9-pin, male) <Sony projector/ plasma display side> (D-sub 9-pin, female)

Pin No.	Signal	Function
1	FG	Frame ground
2	RD	Receive data
3	TD	Send data
4	ER	Data terminal ready
5	SG	Signal line ground
6	DR	Data set ready
7	RS	Request to send
8	CS	Clear to send
9	N.C	Not connected

Pin No.	Signal	Function
1	FG	Frame ground
2	RX DA	Receive data
3	TX DA	Send data
4	DTR	Data terminal ready
5	GND	Ground
6	DSR	Data set ready
7	RTS	Request to send
8	CTS	Clear to send
9	RI	Called display



PROJECTOR CONTROL CONTROL S IN/OUT Terminal

The SRP-X700P can switch the input signals and power ON/STANDBY of the projector automatically when CONTROL S cable is connected to Sony's projector as interlocked operation. The RGB signal and the component signal cannot be connected at the same time for the interlocked operation. Connect the wired remote commander supplied with a projector to the CONTROL S IN terminal. Then you can establish various setups of a projector from the SRP-X700P. If you want to use the wired remote commander on battery, locally fabricate a connecting cord with STEREO mini plug connected at one end, for supplying the power.

How to Control AV Equipment from the SRP-X700P

The SRP-X700P can control the Sony equipment connected to the CONTROL S OUTPUT1 through 4 terminals. The functions which can be operated are as follows.

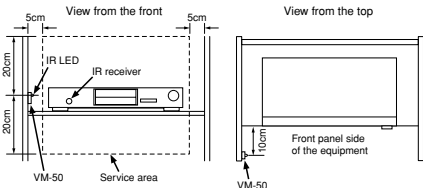
Note that the functions of REC, POWER ON, and POWER STANDBY cannot be operated from the supplied software SRP-X700P Manager and User Control Panel, to prevent the system from malfunctioning.

	PREV.	NEXT	STOP	REW.	PLAY	F.F.	PAUSE	REC	POWER ON	POWER STANDBY
MD CD-R Audio	○	○	○	○	○	○	○	○	○	○
VTR1 (Beta) VTR2 (8mm) VTR3 (VHS) VTR4 (DV)	—	—	○	○	○	○	○	○	○	○
CD DVD	○	○	○	○	○	○	○	—	○	○

Use the supplied IR transmitter VM-50 to control the Sony equipment that is not equipped with the CONTROL S terminal.

- Confirm location of the remote control signal receptor part of the Sony equipment that you want to control, and fix the supplied IR transmitter VM-50 with a both-sided adhesive tape as shown below.

Setting Requirements



Install the VM-50 inside a rack. Recess the IR receiver behind the IR LED by more than 10 cm. Install the IR receiver in the location that is within the range of 20 cm higher and 20 cm lower than the IR LED (as shown by the dotted line of the illustration). The IR receiver of the equipment should be located more than 5 cm far from the IR LED in the right and left.

Note
If any screening object is placed in between the IR LED and the IR receiver, the infrared ray is blocked to disable control of the external equipment.

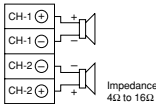
- Operate the SRP-X700P Manager or the User Control Panel to confirm that it can control the Sony equipment. If they cannot control the equipment, change position of the supplied IR transmitter VM-50 until they can control the equipment.

Connecting the Speaker

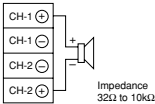
Speaker connection method changes depending on the operating mode.

When the "70 V LINE" mode is selected, the output signal becomes monaural. Connect the (+) terminal of a speaker to the (+) terminal (red) of SPEAKERS CH-1 and the (-) terminal of a speaker to the (+) terminal (red) of SPEAKERS CH-2.

- Connecting speakers with low impedance [Lo imp.]



- Connecting speakers with high impedance [70 V LINE]



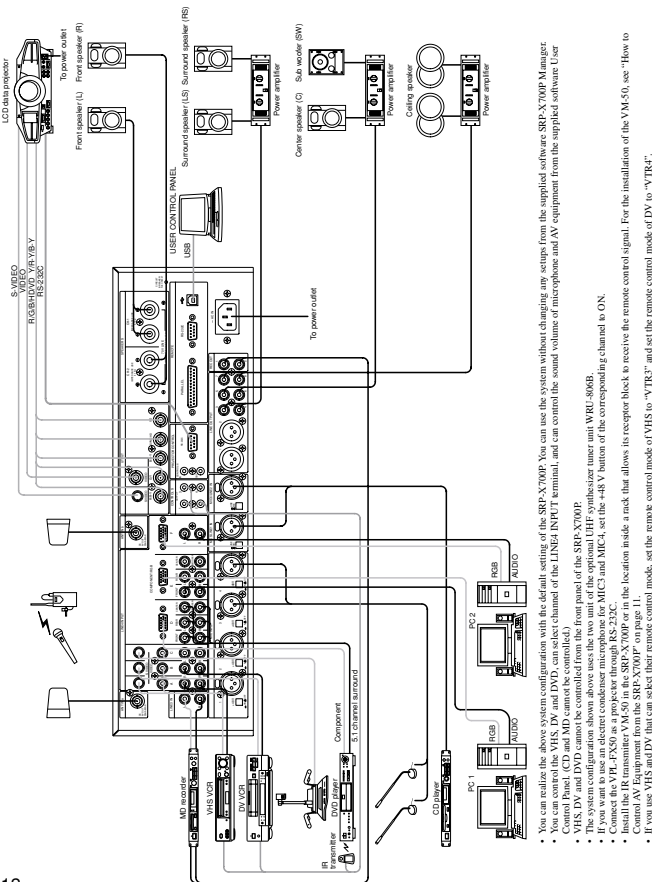
The table below shows the number of speakers that can be connected in the high impedance [70 V LINE] mode.

Impedance	Power applied to each speaker	Number of speakers you can connect
1 kΩ	5 W	30
3.3 kΩ	1.5 W	100
10 kΩ	0.5 W	300

* The notation in [] is displayed in the SRP-X700P Manager.

System Configuration

System example when operating the SRP-X700P with the default setting when shipped from the factory

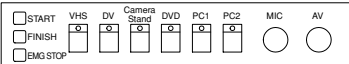


- You can realize the above system configuration with the default setting of the SRP-X700P. You can use the system without changing any settings from the supplied software SRP-X700P Manager.
- You can use the VHS, DV, DVD, and PC1 terminals of the SRP-X700P to control the LINEA INVT terminal, and can control the total volume of microphone and AV equipment from the supplied software User Control Panel. (CD and MD cannot be controlled.)
- VHS, DV and DVD cannot be controlled from the front panel of the SRP-X700P.
- System configuration shown above uses the supplied SRP-X700P Manager and User Control Panel. If you use the supplied SRP-X700P Manager and User Control Panel, you can control the system from the supplied software User Control Panel.
- Connect the VTR, VCR, and PC1 terminals of the SRP-X700P to the corresponding channels on the VTR, VCR, and PC1 terminals of the Sony equipment.
- Install the IR transmitter VM-50 in the SRP-X700P or in the location inside a rack that allows its receiver block to receive the remote control signal. For the installation of the VM-50, see "How to install the IR transmitter VM-50" on page 14.
- If you use VHS and DV, that can select their remote control mode, set the remote control mode of VHS to "VTRC" and set the remote control mode of DV to "VTRC".

System Configuration

System example when operating the SRP-X700P from the REMOTE PARALLEL terminal

The REMOTE PARALLEL terminal of the SRP-X700P is shipped from the factory with the default setting on the premise of the external operation panel as described below.



START button (SCENE No. 1 recall): Sets OUTPUT7 and OUTPUT9 to ON to lower the screen, to close the curtain, to darken the illumination and to start presentation.

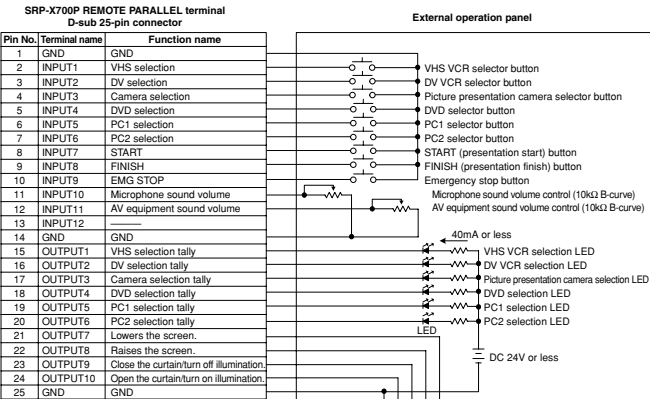
FINISH button (SCENE No. 2 recall): Sets OUTPUT8 and OUTPUT10 to ON to raise the screen, to open the curtain, to turn on the illumination and to end the presentation.

EMG STOP button (SCENE No. 3 recall): Sets OUTPUT7 through OUTPUT10 to OFF to stop moving the screen and the curtain, and to turn on the illumination.

Selector block: Switches the LINE4 INPUT terminals A through F.

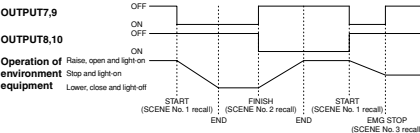
MIC volume control: Controls the microphone sound volume.

AV volume control: Controls the sound volume of the AV equipment.

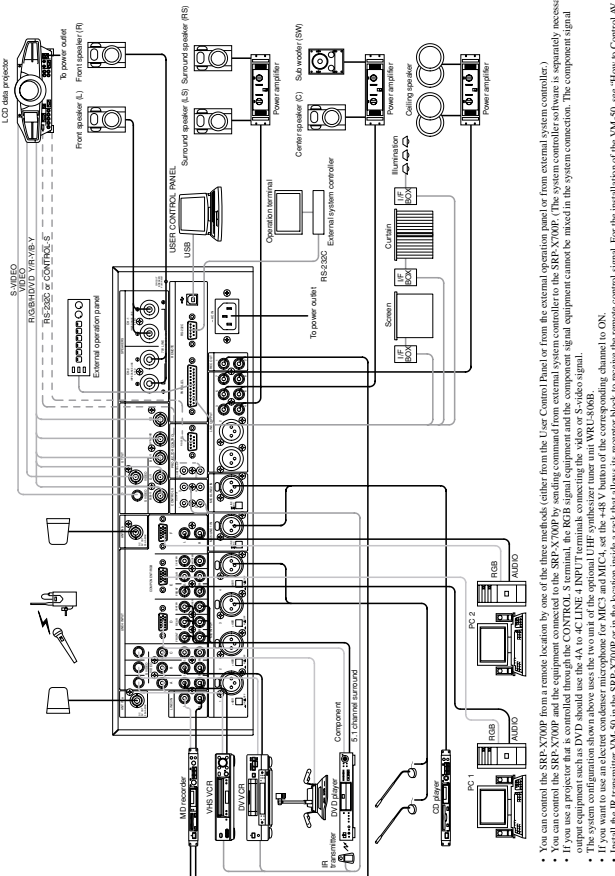


Precaution on the environment interface box specifications

- The REMOTE PARALLEL output terminal provides the open-collector output of alternate operation. It means that the output terminal keeps outputting the ON signal after an output command is issued to move the environment equipment for scene recall and others, regardless of the operating condition of the environment equipment. The environment equipment motors should be stopped when you want to stop raising or lowering the screen or curtain, by the Interface Box.
 - The Emergency Stop signal turns off the output signals at the OUTPUT7 to OUTPUT10 terminals.
- Please create an Interface Box that stops moving the screen and the curtain, and turns on illumination when the output terminals are turned off.



System example when external operation panel and environment equipment are connected



- You can control the SRP-X700P from a remote location by one of the three methods (either from the User Control Panel or from external system controller).
- You can control the SRP-X700P and the equipment connected to the SRP-X700P by sending command from external system controller to the SRP-X700P. (The system controller software is separately necessary.)
- If you use a projector that is controlled through the CONTROL S terminal, the RGB signal equipment and the component signal equipment cannot be mixed in the system connection. The component signal equipment should be connected to the CONTROL S terminal.
- If you use a projector that is controlled through the CONTROL S terminal, the RGB signal equipment and the component signal equipment cannot be mixed in the system connection. The component signal equipment should be connected to the CONTROL S terminal.
- If you want to use an electric condenser microphone (for MIC) and MIC4, set the +48 V button of the corresponding channel to ON.
- Install the IR transmitter VM-50 in the SRP-X700P or in the location inside a rack that allows its receiver block to receive the remote control signal. For the installation of the VM-50, see "How to Control AV Equipment from the SRP-X700P" on page 14.
- If you want to operate the environment equipment such as screen, curtain and illuminations, from the REMOTE PARALLEL output terminal, use the optional interface box (IF Box).
- For the external operation panel and interface box (IF Box), see "System example when operating the SRP-X700P from the REMOTE PARALLEL terminal" on page 14.

Default settings

INPUT			
Item			Initial setting
TRIM	MIC1 - MIC4		-60 dBu
	MIC5/LINE1, MIC6/LINE2		+4 dBu
	LINE3, LINE4A - 4F		-10 dBu
LCF	MIC1 - MIC4		ON
	MIC5/LINE1, MIC6/LINE2		OFF
PEQ			OFF
FR			OFF
COMP			OFF
MUTING			OFF
GAIN LIMIT			+10 dB
INPUT FADER			0 dB
MIC1 - MIC4 MIC5/LINE1, MIC6/LINE2 PEQ	FREQ	Band 1	63 Hz
		Band 2	2.5 kHz
		Band 3	20 kHz
	Q	Band 1	1.0
		Band 2	1.5
		Band 3	0.47
	GAIN	Band 1 - 3	0 dB
		Band 1	63 Hz
		Band 2	20 kHz
LINE3, LINE4 PEQ	FREQ	Band 1	1.0
		Band 2	0.47
		Band 3	0.47
	Q	Band 1	1.0
		Band 2	0.47
		Band 3	0.47
	GAIN	Band 1 - 2	0dB
		Band 2	0dB
		Band 3	0dB

ROUTING				
Routing				Mix level
MIC1/WL1		LINE OUT1, LINE OUT2		-20 dB
		LINE OUT7, LINE OUT8, REC OUT1, REC OUT2		0dB
MIC2/WL2		LINE OUT1, LINE OUT2		-20 dB
		LINE OUT7, LINE OUT8, REC OUT1, REC OUT2		0 dB
MIC3		LINE OUT1, LINE OUT2		-20 dB
		LINE OUT7, LINE OUT8, REC OUT1, REC OUT2		0 dB
MIC4		LINE OUT1, LINE OUT2		-20 dB
		LINE OUT7, LINE OUT8, REC OUT1, REC OUT2		0 dB
MIC5/LINE1		LINE OUT1, REC OUT1		0 dB
MIC6/LINE2		LINE OUT2, REC OUT2		0 dB
LINE3		L	LINE OUT1	0 dB
		R	LINE OUT2	0 dB
LINE4	A B C F	L	LINE OUT1, REC OUT1	0 dB
		R	LINE OUT2, REC OUT2	0 dB
	D E	L	LINE OUT1, REC OUT1	0 dB
		C	LINE OUT5	0 dB
		R	LINE OUT2, REC OUT2	0 dB
		SW	LINE OUT6	0 dB
		LS	LINE OUT3	0 dB
		RS	LINE OUT4	0 dB
ROUTING				ATT LEVEL
SP OUT		CH1	LINE OUT1	-10 dB
		CH2	LINE OUT2	-10 dB
AUTOMATIC MIXER				OFF

OUTPUT			
Item			Initial setting
REF LEVEL		OUTPUT1, OUTPUT2	+4 dBu
		OUTPUT3 - OUTPUT8	-5 dBu
HCF		REC OUT1, REC OUT2	-5 dBu
EQ			OFF
DELAY			0 ms
MUTING			OFF
GAIN LIMIT			+10 dB
OUTPUT FADER			0 dB
OUTPUT1, OUTPUT2 EQ	FREQ	Band 1	25 Hz
		Band 2	40 Hz
		Band 3	80 Hz
		Band 4	160 Hz
		Band 5	315 Hz
		Band 6	630 Hz
		Band 7	1.25 kHz
		Band 8	2.5 kHz
		Band 9	5 kHz
		Band 10	10 kHz
		Band 11	20 kHz
	Q	Band 1 - 11	1.5
	GAIN	Band 1 - 11	0 dB
	HCF		OFF
OUTPUT3 - OUTPUT8 EQ	FREQ	Band 1	63 Hz
		Band 2	250 Hz
		Band 3	2.5 kHz
		Band 4	20 kHz
	Q	Band 1	1.0
		Band 2, 3	1.5
		Band 4	0.47
	GAIN	Band 1 - 4	0 dB
	HCF		OFF
	MODE		Lo Imp.
SPEAKER OUTPUT	SELECT	CH1	OUTPUT 1
		CH2	OUTPUT 2
	ATT	CH1	10 dB
		CH2	10 dB

Default settings

REMOTE			
Item			Initial setting
PARALLEL I/O	INPUT	INPUT1	AV SEL A
		INPUT2	AV SEL B
		INPUT3	AV SEL C
		INPUT4	AV SEL D
		INPUT5	AV SEL E
		INPUT6	AV SEL F
	OUTPUT	INPUT7	RECALL 1
		INPUT8	RECALL 2
		INPUT9	RECALL 3
		INPUT10	LVL Master A
		INPUT11	LVL Master B
		INPUT12	NONE
MACHINE CONTROL	LINE3	OUTPUT1	AV SEL A
		OUTPUT2	AV SEL B
		OUTPUT3	AV SEL C
		OUTPUT4	AV SEL D
		OUTPUT5	AV SEL E
		OUTPUT6	AV SEL F
	LINE4A	OUTPUT7	RECALL 1
		OUTPUT8	RECALL 2
		OUTPUT9	RECALL 1
		OUTPUT10	RECALL 2
		OUTPUT11	RECALL 1
		OUTPUT12	RECALL 2
	LINE4B	MACHINE TYPE	MD
		CTRL S OUTPUT CH	1
		MACHINE TYPE	VTR3 (VHS)
		CTRL S OUTPUT CH	2
		MACHINE TYPE	VTR4 (DV)
		CTRL S OUTPUT CH	2
PROJECTOR CONTROL	LINE4C	MACHINE TYPE	NONE
		CTRL S OUTPUT CH	1
	LINE4D	MACHINE TYPE	DVD
		CTRL S OUTPUT CH	3
	LINE4E	MACHINE TYPE	NONE
		CTRL S OUTPUT CH	1
TYPE	CONNECTION	CH1	WIRED
		CH2	WIRED
		CH3	IR
		CH4	WIRED
	TYPE	IF TYPE	RS-232C
		PROJECTOR PROTOCOL	VPL-FX50
		REMOTE POWER ENABLE	ON
		LINE4A - LINE4C	VIDEO
		LINE4D	COMPONENT
		LINE4E, LINE4F	RGB

GROUP FADER	
Item	Initial setting
MASTER A	MIC1/WL1, MIC2/WL2, MIC3, MIC4
MASTER B	MIC5/LINE1, MIC6/LINE2, LINE3, LINE4
REMOTE1 - REMOTE6	Not assigned

Troubleshooting

Before contacting us, please check the following again. If the trouble persists, please contact your local Sony Sales office or Dealer.
Start the supplied software SRP-X700P Manager and check the settings of the SRP-X700P. Check the following if the problem still cannot be solved.

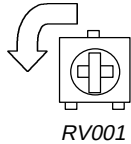
Symptom	Cause/Remedy
Power is not turned on.	Power cord is disconnected. → Firmly insert the power cord fully into the AC IN terminal and wall outlet.
No sound is output.	- Input fader is decreased. → Increase the input fader. - Master volume is decreased. → Increase the master volume. - ROUTING setup is incorrect. → Set the ROUTING correctly using the SRP-X700P Manager.
No microphone sound is output.	MIC/LINE selector button is set to LINE. → Set the MIC/LINE selector button to MIC.
Sound is distorted.	The LINE equipment is connected to MIC5/LINE 1 IN and MIC6/LINE 2 IN terminals while the MIC/LINE selector button is set to the MIC position. → Set the MIC/LINE selector button to LINE.
No video comes out.	Video input signal setup is incorrect. → Set the video input signal correctly again.
The SRP-X700P cannot be controlled by RS-232C.	- The cable routing method does not satisfy the specifications of this unit. - The RS-232C parameter settings do not satisfy the specifications of this unit. → Connect cables following the instructions for "REMOTE RS-232C Terminal" described on page 10.
PROTECTION indicator remains lit.	- When DC voltage appears in the SPEAKER terminal due to failure. → Set the POWER switch to OFF. - If the heat sink temperature inside the amplifier exceeds the specified value. The connected speaker impedance is too low. → Set the POWER switch to OFF and connect the SRP-X700P to a speaker having the correct impedance. Air intake and exhaust holes (on the right and left sides of the SRP-X700P) are choked by dust. → Clean the air intake and exhaust holes by removing dust with a vacuum cleaner. - Speaker terminal is short-circuited. → Set the POWER switch to OFF and remove the cause of the short-circuit.

SECTION 3 ELECTRICAL ADJUSTMENT

・ パワーアンプ過電圧検出レベル調整

使用機器：スライダック(500VA以上)

1. PA board上のRV001を図のように左回しに限界まで回す。



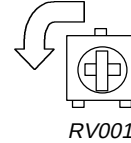
SPEAKERS端子を含め、全ての入出力端子の接続を外す。

2. 電源を ON にする。
PROTECTION インジケータが点灯することを確認。
3. PA board上のADJ1 (CN007)にテスターを接続。(1ピンにプラス, 2ピンにマイナス側を接続)
テスターの電圧が, $69V \pm 0.1V$ になるまで, スライダックにより AC 電源電圧を上昇させる。
4. PA board上のADJ2 (CN005)にテスターを接続。(1ピンにプラス, 2ピンにマイナス側を接続)
テスターの電圧が $50mV \pm 50mV$ になるように, RV001を調整する。
このとき, PROTECTIONが解除されないように調整する。
(テスターの電圧が数秒間0Vを下回ると PROTECTION が解除される)
PROTECTIONが解除された場合, 手順1.からやりなおす。
5. 電源を OFF にする。
6. PA board上のADJ1 (CN007)にテスターを接続。(1ピンにプラス, 2ピンにマイナス側を接続)
AC電源電圧を定格電圧に設定し, 再度, 電源を ON にする。
数秒後, リレー解除音の確認およびPROTECTION インジケータの消灯を確認する。
7. スライダックにてAC電源電圧を徐々に上昇させ, テスターの電圧が $67.5 \sim 72V$ の間で, PROTECTION インジケータが点灯することを確認する。

・ Power Amplifier Over-Voltage Detection Level Adjustment

Equipment required : Auto-transformer (500 VA or more)

1. Turn the control RV001 on the PA board fully counter-clockwise.

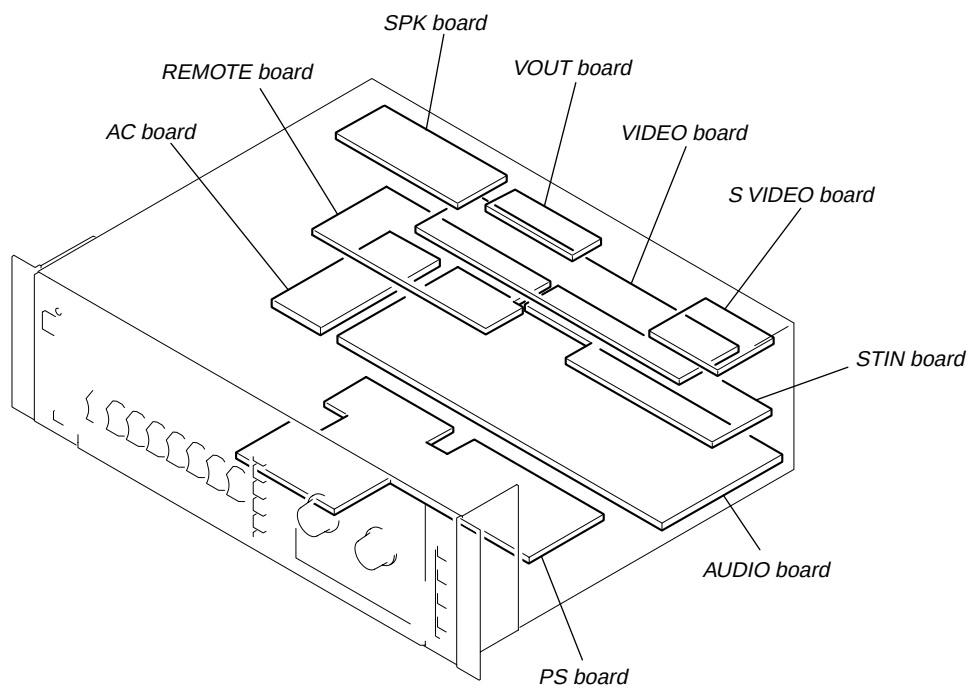
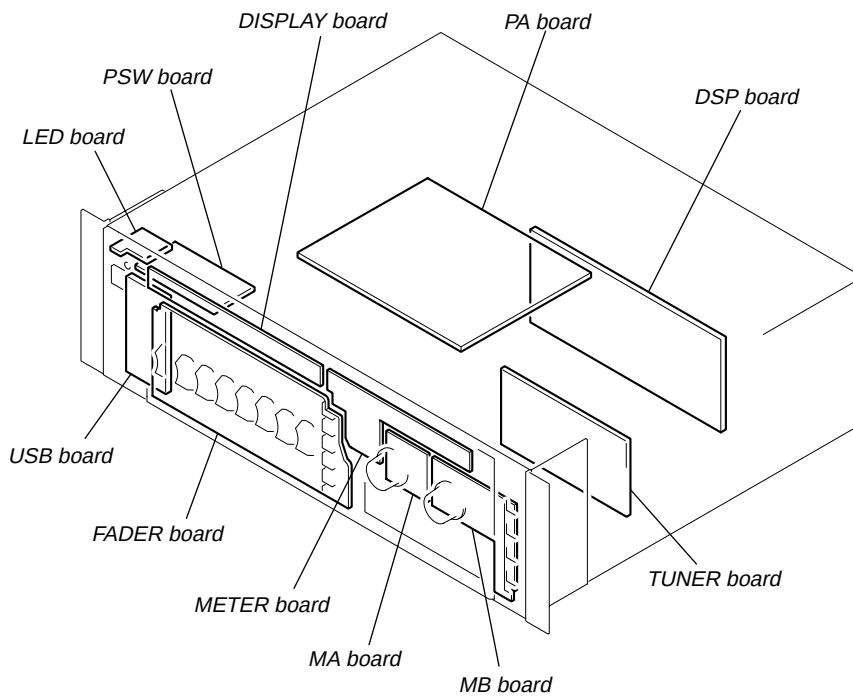


Disconnect all input and output connections including the SPEAKERS terminals.

2. Turn on the power.
Confirm that the PROTECTION indicator lights.
3. Connect a voltmeter to ADJ1 (CN007) on the PA board. (Connect positive probe to pin-1 and negative probe to pin-2.)
Increase the power supply AC voltage with autotransformer until the voltmeter reading becomes $69 V \pm 0.1 V$.
4. Connect a voltmeter to ADJ2 (CN005) on the PA board. (Connect positive probe to pin-1 and negative probe to pin-2.)
Adjust RV001 until the voltmeter reading becomes $50 mV \pm 50 mV$.
Throughout this adjustment, be careful that the PROTECTION should not be released.
(If the voltage measured by voltmeter goes below 0V for several seconds, the PROTECTION will be released.)
If PROTECTION is released, re-start the adjustment from step 1.
5. Turn off the power.
6. Connect a voltmeter to ADJ1 (CN007) on the PA board. (Connect positive probe to pin-1 and negative probe to pin-2.)
Set the power supply AC voltage to the rated voltage and turn the power back on.
Confirm that the relay releasing sound is heard and the PROTECTION indicator turns off several seconds later.
7. Increase the power supply AC voltage using auto-transformer gently and confirm that the PROTECTION indicator turns on in the range of $67.5 V$ to $72 V$ of AC power supply voltage.

SECTION 4 DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION



プリント図、回路図用共通ノート

回路図ノート

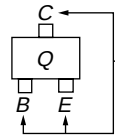
- ・ ケミコン、タンタルを除くコンデンサで、耐圧 50V 以下のものは、その耐圧を省略。単位はすべて μF (p は pF)。
- ・ 抵抗で指示のないものは、1 / 4W 以下を示す。単位はすべて Ω 。
- ・ Δ : 内蔵部品。
- ・ : パネル表示名称。
- ・ B+ : B + ライン。
- ・ B- : B - ライン。

△印の部品、または△印付の点線で囲まれた部品は、安全性を維持するために、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下さい。

- ・ 電圧は、対アース間を無信号状態で測定。
- ・ 電圧値は、テスタ (入力インピーダンス 10M Ω / V) で測定した参考値。
- ・ 信号の流れについて
 - ⇒ : AUDIO
 - ➡ : VIDEO

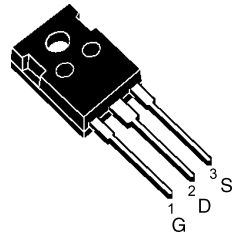
プリント図ノート

- ・ : 部品面側取付のリード線。
- ・ : 見ている側のパターン (他のパターンについては表示されません)
- ・ トランジスタの表記



これらは省略しています。

— PA BOARD —
TRANSISTOR STW34NB20



THIS NOTE IS COMMON FOR WIRING BOARDS AND SCHEMATIC DIAGRAMS

For schematic diagrams

- ・ All capacitors are in μF unless otherwise noted. p : pF. 50V or less are not indicated except for electrolytics and tantalums.
- ・ All resistors except chips are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- ・ Δ : internal component.
- ・ : panel designation
- ・ B+ : B+ Line
- ・ B- : B- Line

Note:

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Note:

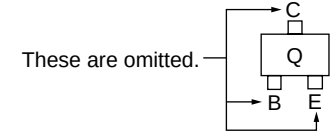
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和△标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

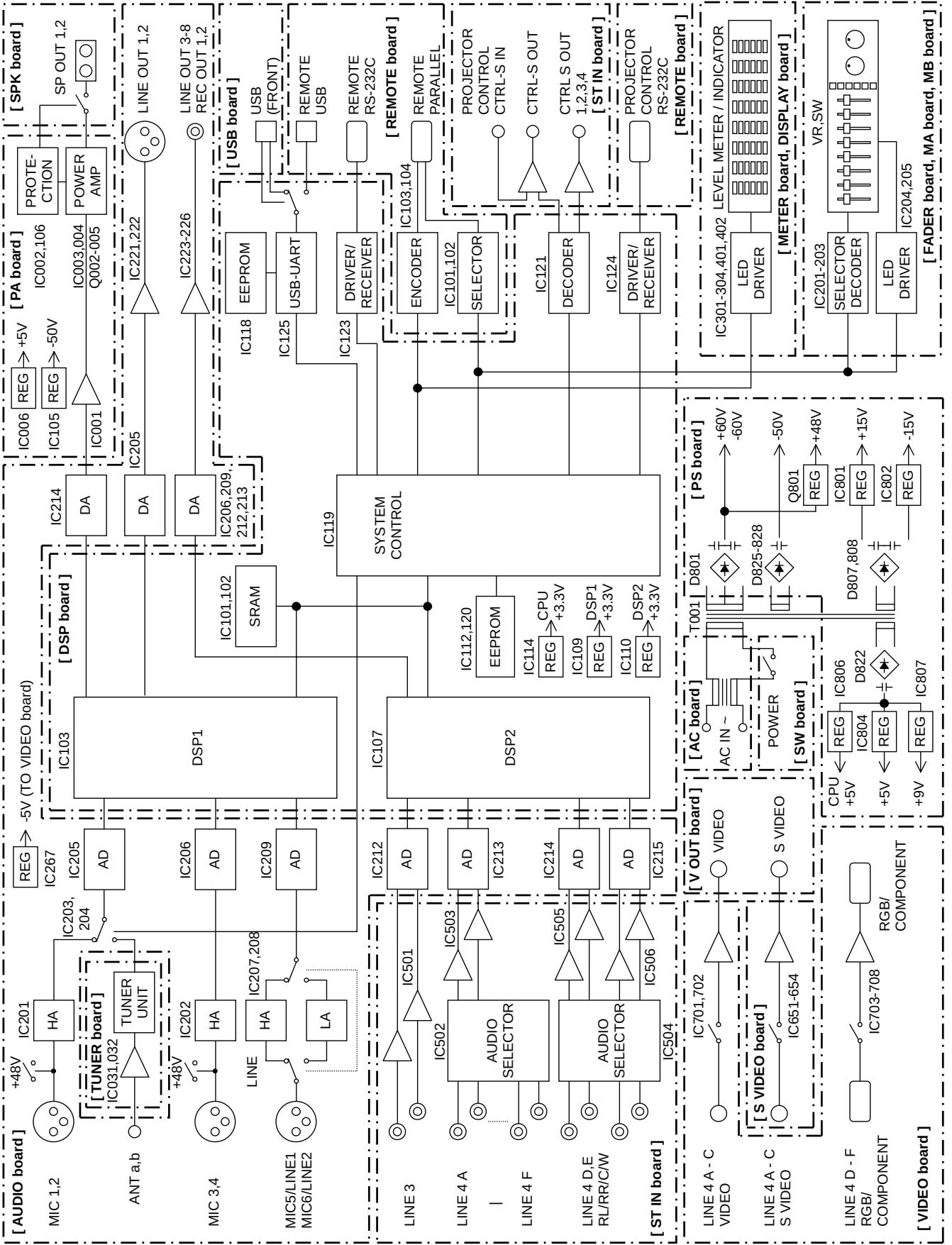
- ・ Voltage is measured with respect to ground under no-signal conditions.
- ・ Voltages are reference values measured by a VOM (10M Ω /V).
- ・ Signal path.
 - ⇒ : AUDIO
 - ➡ : VIDEO

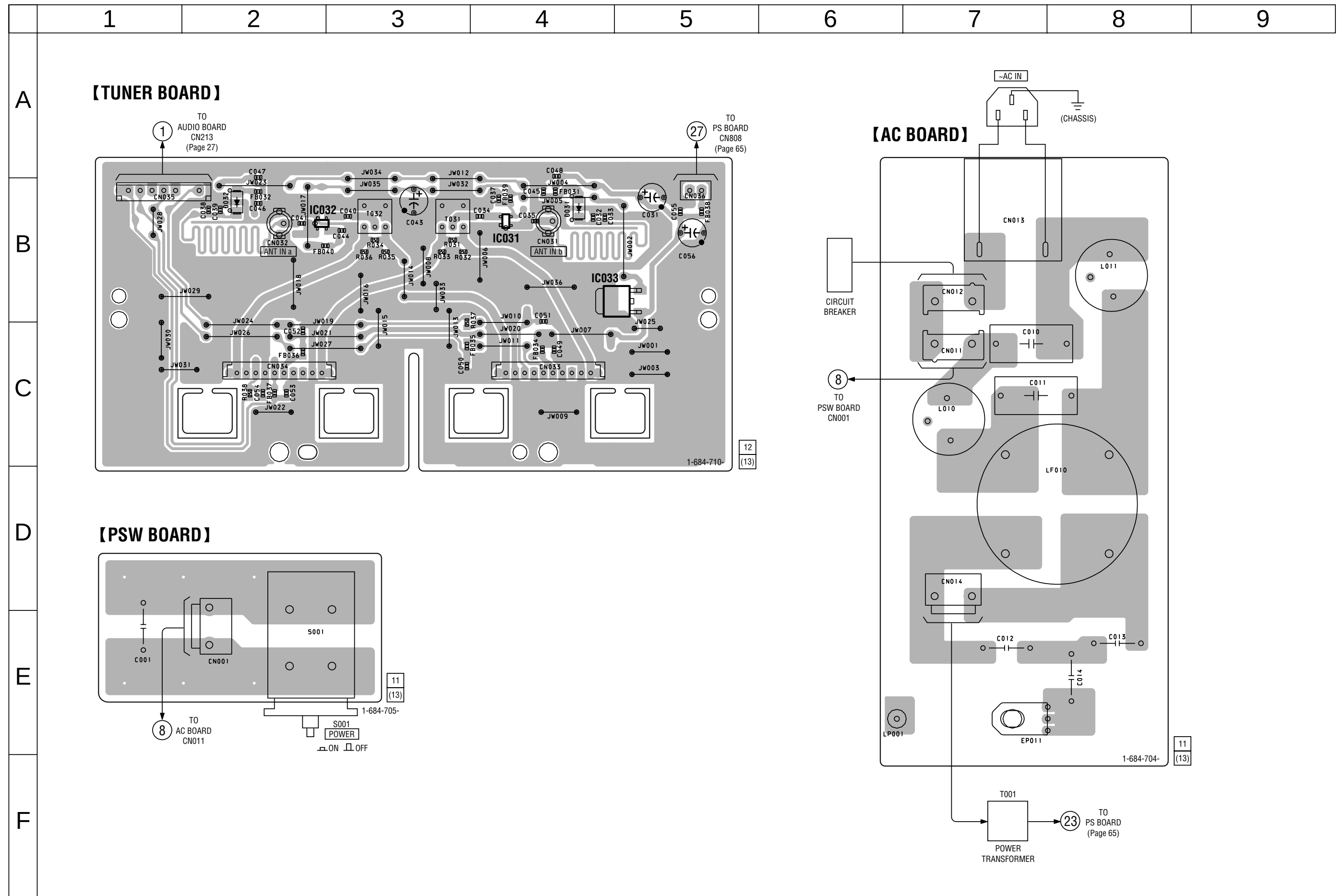
For printed wiring boards

- ・ : parts extracted from the component side.
- ・ : Pattern on the side which is seen. (Other patterns are not shown.)
- ・ Indication of transistor.

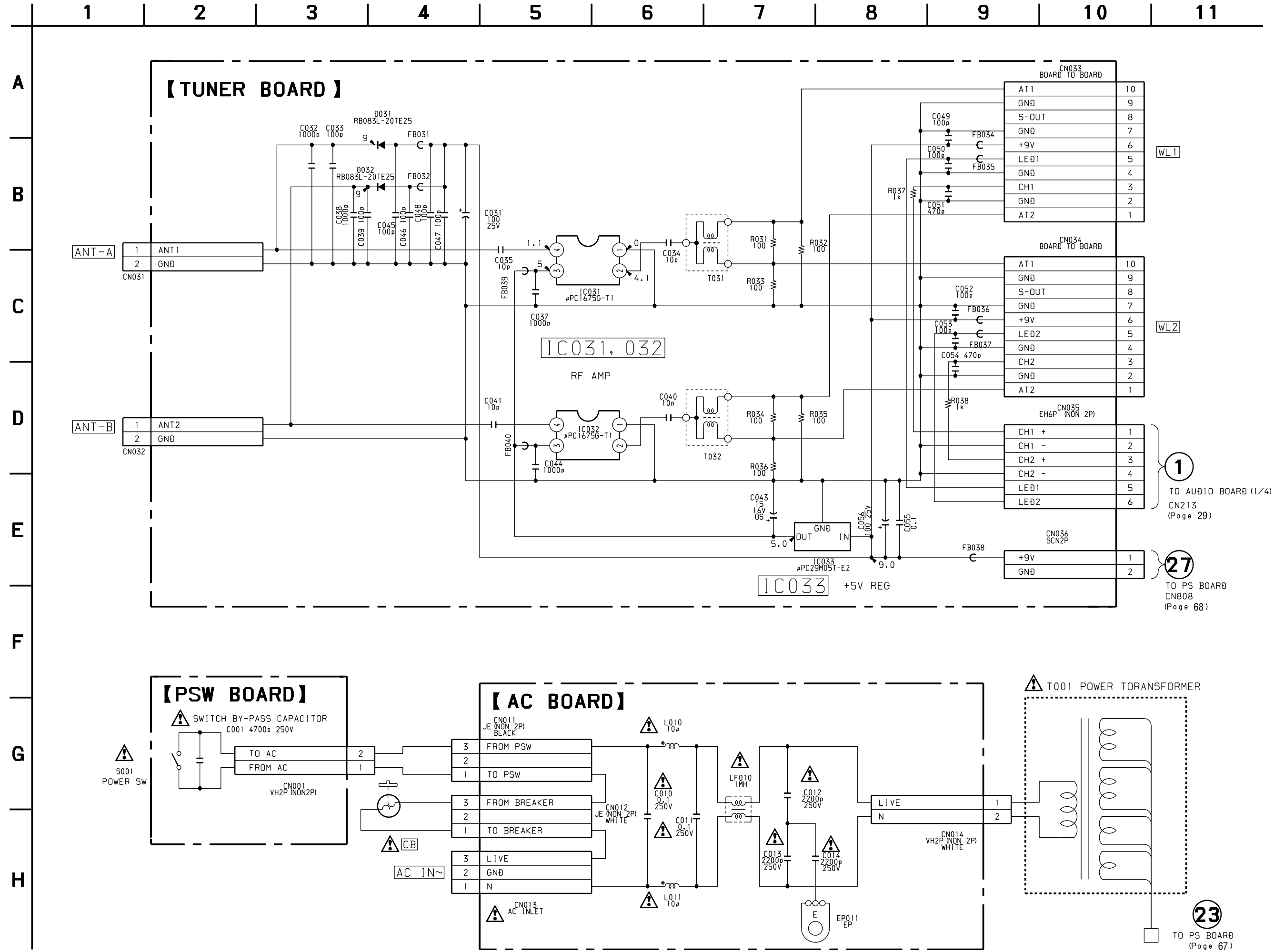


4-2. BLOCK DIAGRAM





4-4. SCHEMATIC DIAGRAM – AC/PSW/TUNER BOARD –



	1	2	3	4	5	6	7	8	9	10	11
--	---	---	---	---	---	---	---	---	---	----	----

A

B

C

D

E

[AUDIO BOARD] (COMPONENT SIDE)

The diagram shows the component side of the audio board. Key components include:

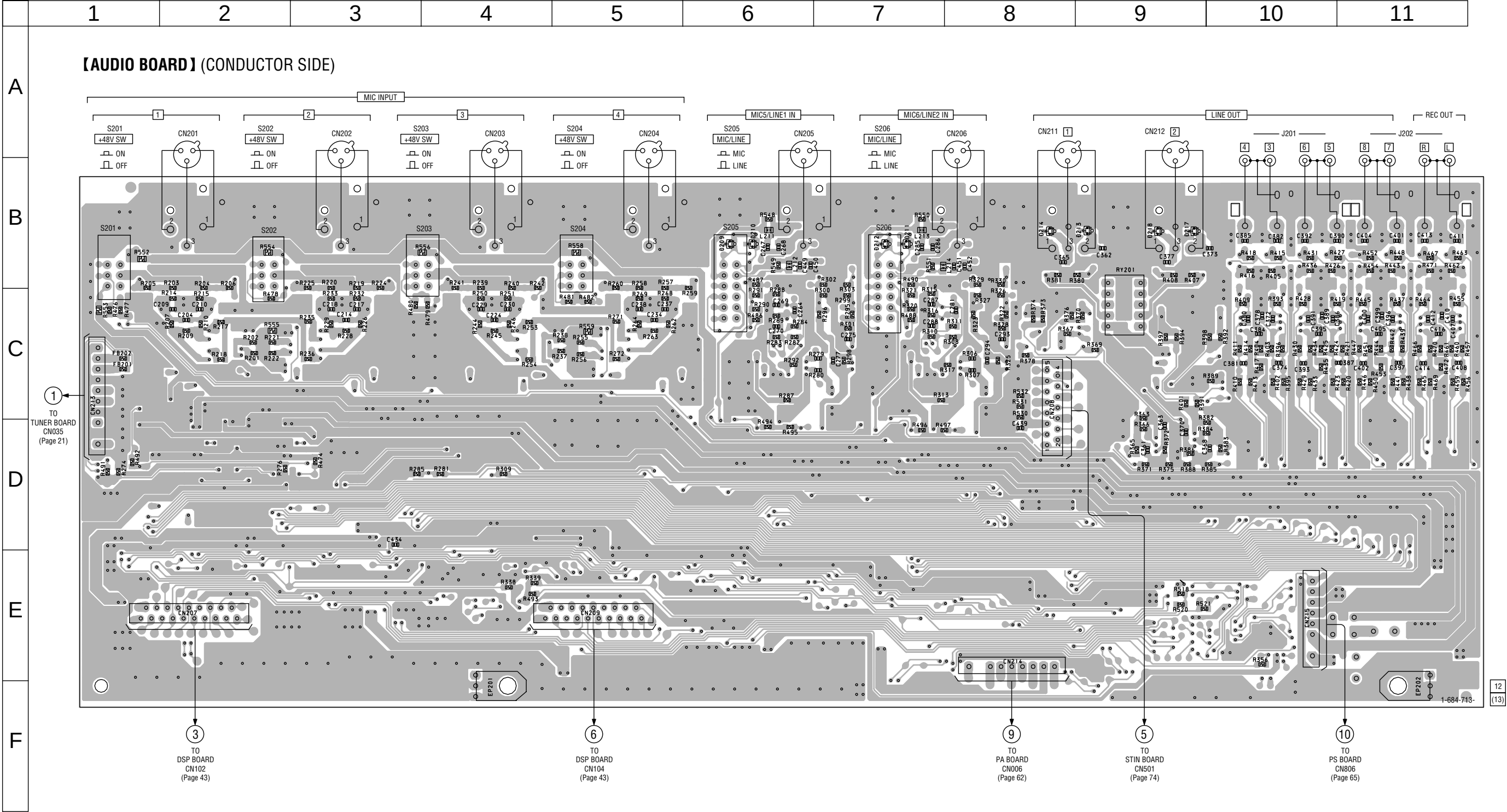
- ICs:** IC226, IC225, IC224, IC223, IC222, IC220, IC267, IC216, IC219, IC218, IC217, IC215, IC214, IC213, IC212, IC211, IC210, IC209, IC208, IC207, IC206, IC205, IC204, IC203, IC202, IC201, IC200, IC199, IC198, IC197, IC196, IC195, IC194, IC193, IC192, IC191, IC190, IC189, IC188, IC187, IC186, IC185, IC184, IC183, IC182, IC181, IC180, IC179, IC178, IC177, IC176, IC175, IC174, IC173, IC172, IC171, IC170, IC169, IC168, IC167, IC166, IC165, IC164, IC163, IC162, IC161, IC160, IC159, IC158, IC157, IC156, IC155, IC154, IC153, IC152, IC151, IC150, IC149, IC148, IC147, IC146, IC145, IC144, IC143, IC142, IC141, IC140, IC139, IC138, IC137, IC136, IC135, IC134, IC133, IC132, IC131, IC130, IC129, IC128, IC127, IC126, IC125, IC124, IC123, IC122, IC121, IC120, IC119, IC118, IC117, IC116, IC115, IC114, IC113, IC112, IC111, IC110, IC109, IC108, IC107, IC106, IC105, IC104, IC103, IC102, IC101, IC100, IC99, IC98, IC97, IC96, IC95, IC94, IC93, IC92, IC91, IC90, IC89, IC88, IC87, IC86, IC85, IC84, IC83, IC82, IC81, IC80, IC79, IC78, IC77, IC76, IC75, IC74, IC73, IC72, IC71, IC70, IC69, IC68, IC67, IC66, IC65, IC64, IC63, IC62, IC61, IC60, IC59, IC58, IC57, IC56, IC55, IC54, IC53, IC52, IC51, IC50, IC49, IC48, IC47, IC46, IC45, IC44, IC43, IC42, IC41, IC40, IC39, IC38, IC37, IC36, IC35, IC34, IC33, IC32, IC31, IC30, IC29, IC28, IC27, IC26, IC25, IC24, IC23, IC22, IC21, IC20, IC19, IC18, IC17, IC16, IC15, IC14, IC13, IC12, IC11, IC10, IC9, IC8, IC7, IC6, IC5, IC4, IC3, IC2, IC1.
- Resistors:** R225, R226, R224, R222, R220, R219, R218, R217, R216, R215, R214, R213, R212, R211, R210, R209, R208, R207, R206, R205, R204, R203, R202, R201, R200, R199, R198, R197, R196, R195, R194, R193, R192, R191, R190, R189, R188, R187, R186, R185, R184, R183, R182, R181, R180, R179, R178, R177, R176, R175, R174, R173, R172, R171, R170, R169, R168, R167, R166, R165, R164, R163, R162, R161, R160, R159, R158, R157, R156, R155, R154, R153, R152, R151, R150, R149, R148, R147, R146, R145, R144, R143, R142, R141, R140, R139, R138, R137, R136, R135, R134, R133, R132, R131, R130, R129, R128, R127, R126, R125, R124, R123, R122, R121, R120, R119, R118, R117, R116, R115, R114, R113, R112, R111, R110, R109, R108, R107, R106, R105, R104, R103, R102, R101, R100, R99, R98, R97, R96, R95, R94, R93, R92, R91, R90, R89, R88, R87, R86, R85, R84, R83, R82, R81, R80, R79, R78, R77, R76, R75, R74, R73, R72, R71, R70, R69, R68, R67, R66, R65, R64, R63, R62, R61, R60, R59, R58, R57, R56, R55, R54, R53, R52, R51, R50, R49, R48, R47, R46, R45, R44, R43, R42, R41, R40, R39, R38, R37, R36, R35, R34, R33, R32, R31, R30, R29, R28, R27, R26, R25, R24, R23, R22, R21, R20, R19, R18, R17, R16, R15, R14, R13, R12, R11, R10, R9, R8, R7, R6, R5, R4, R3, R2, R1.
- Capacitors:** C225, C226, C224, C222, C220, C219, C218, C217, C216, C215, C214, C213, C212, C211, C210, C209, C208, C207, C206, C205, C204, C203, C202, C201, C200, C199, C198, C197, C196, C195, C194, C193, C192, C191, C190, C189, C188, C187, C186, C185, C184, C183, C182, C181, C180, C179, C178, C177, C176, C175, C174, C173, C172, C171, C170, C169, C168, C167, C166, C165, C164, C163, C162, C161, C160, C159, C158, C157, C156, C155, C154, C153, C152, C151, C150, C149, C148, C147, C146, C145, C144, C143, C142, C141, C140, C139, C138, C137, C136, C135, C134, C133, C132, C131, C130, C129, C128, C127, C126, C125, C124, C123, C122, C121, C120, C119, C118, C117, C116, C115, C114, C113, C112, C111, C110, C109, C108, C107, C106, C105, C104, C103, C102, C101, C100, C99, C98, C97, C96, C95, C94, C93, C92, C91, C90, C89, C88, C87, C86, C85, C84, C83, C82, C81, C80, C79, C78, C77, C76, C75, C74, C73, C72, C71, C70, C69, C68, C67, C66, C65, C64, C63, C62, C61, C60, C59, C58, C57, C56, C55, C54, C53, C52, C51, C50, C49, C48, C47, C46, C45, C44, C43, C42, C41, C40, C39, C38, C37, C36, C35, C34, C33, C32, C31, C30, C29, C28, C27, C26, C25, C24, C23, C22, C21, C20, C19, C18, C17, C16, C15, C14, C13, C12, C11, C10, C9, C8, C7, C6, C5, C4, C3, C2, C1.
- Inductors:** L224, L225, L226, L227, L228, L229, L230, L231, L232, L233, L234, L235, L236, L237, L238, L239, L240, L241, L242, L243, L244, L245, L246, L247, L248, L249, L250, L251, L252, L253, L254, L255, L256, L257, L258, L259, L260, L261, L262, L263, L264, L265, L266, L267, L268, L269, L270, L271, L272, L273, L274, L275, L276, L277, L278, L279, L280, L281, L282, L283, L284, L285, L286, L287, L288, L289, L290, L291, L292, L293, L294, L295, L296, L297, L298, L299, L300, L301, L302, L303, L304, L305, L306, L307, L308, L309, L310, L311, L312, L313, L314, L315, L316, L317, L318, L319,

* 下記シリアルNo.のみジャンパ線あり
Jumpers are attached in the following serial numbers.

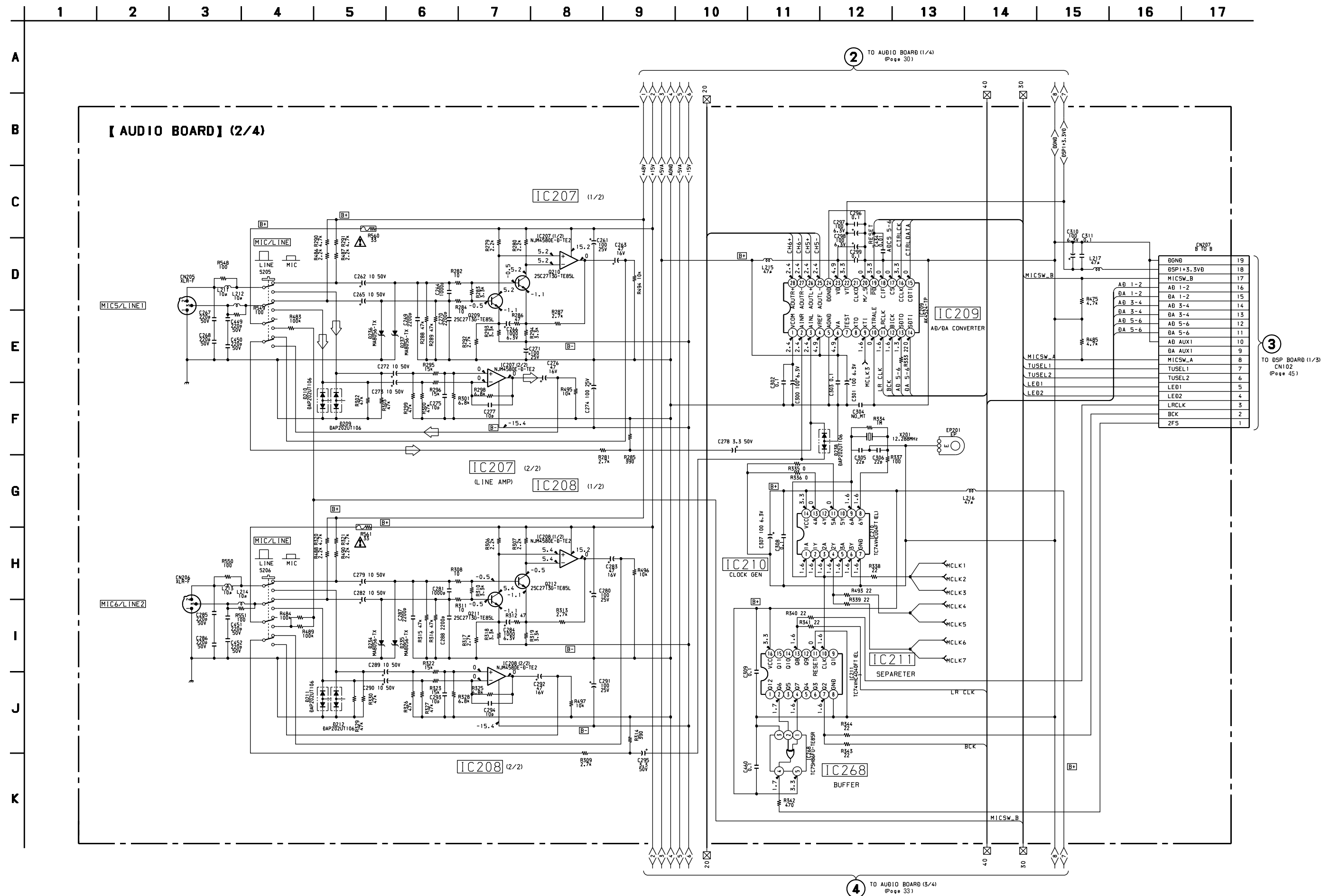
S/N 200001 ~ 200020
S/N 300001 ~ 300020
S/N 400001 ~ 400030

TO
VIDEO BOARD
CN705
(Page 84)

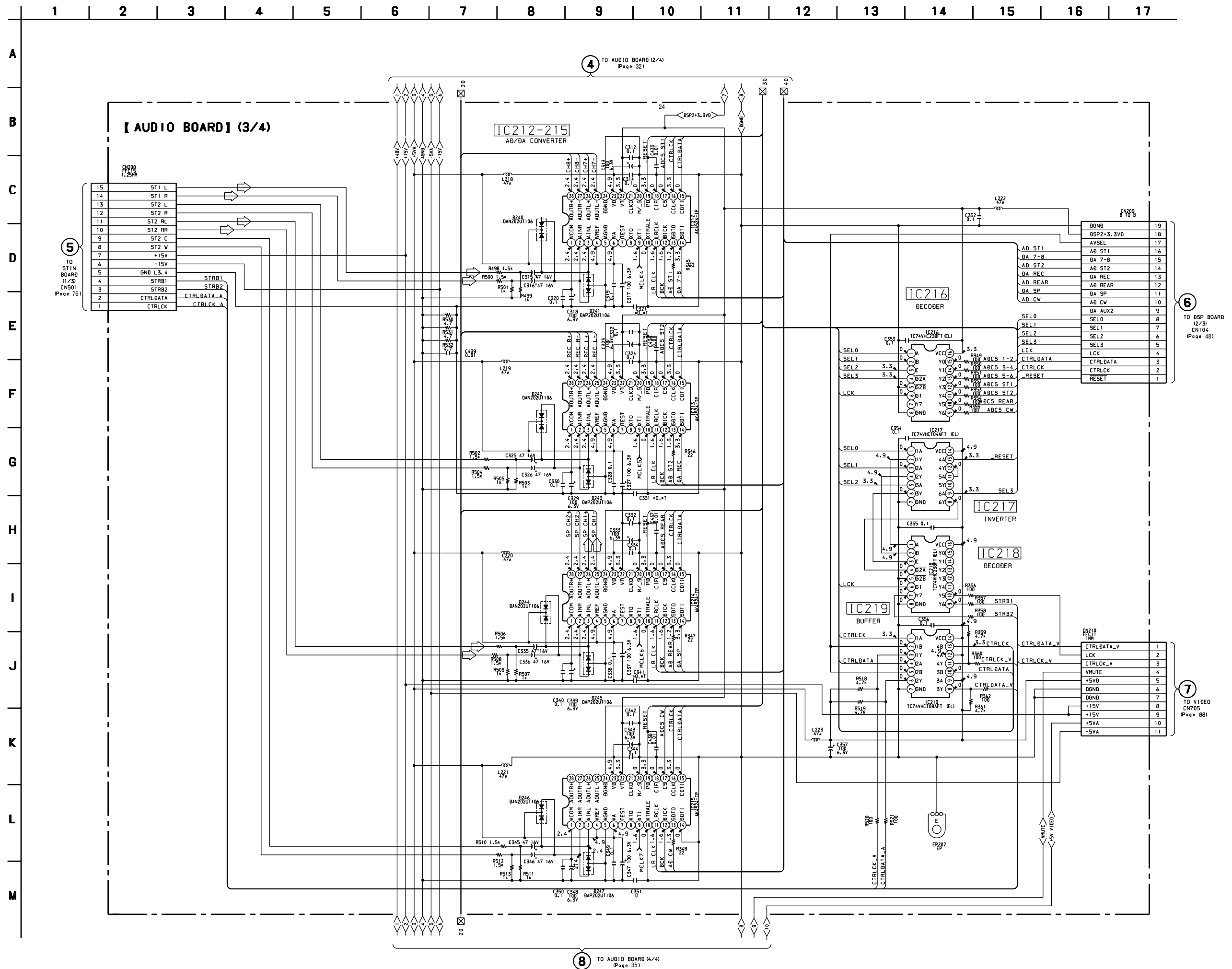
4-6. PRINTED WIRING BOARD – AUDIO BOARD (2/2) – • See page 18 for Circuit Boards Location.



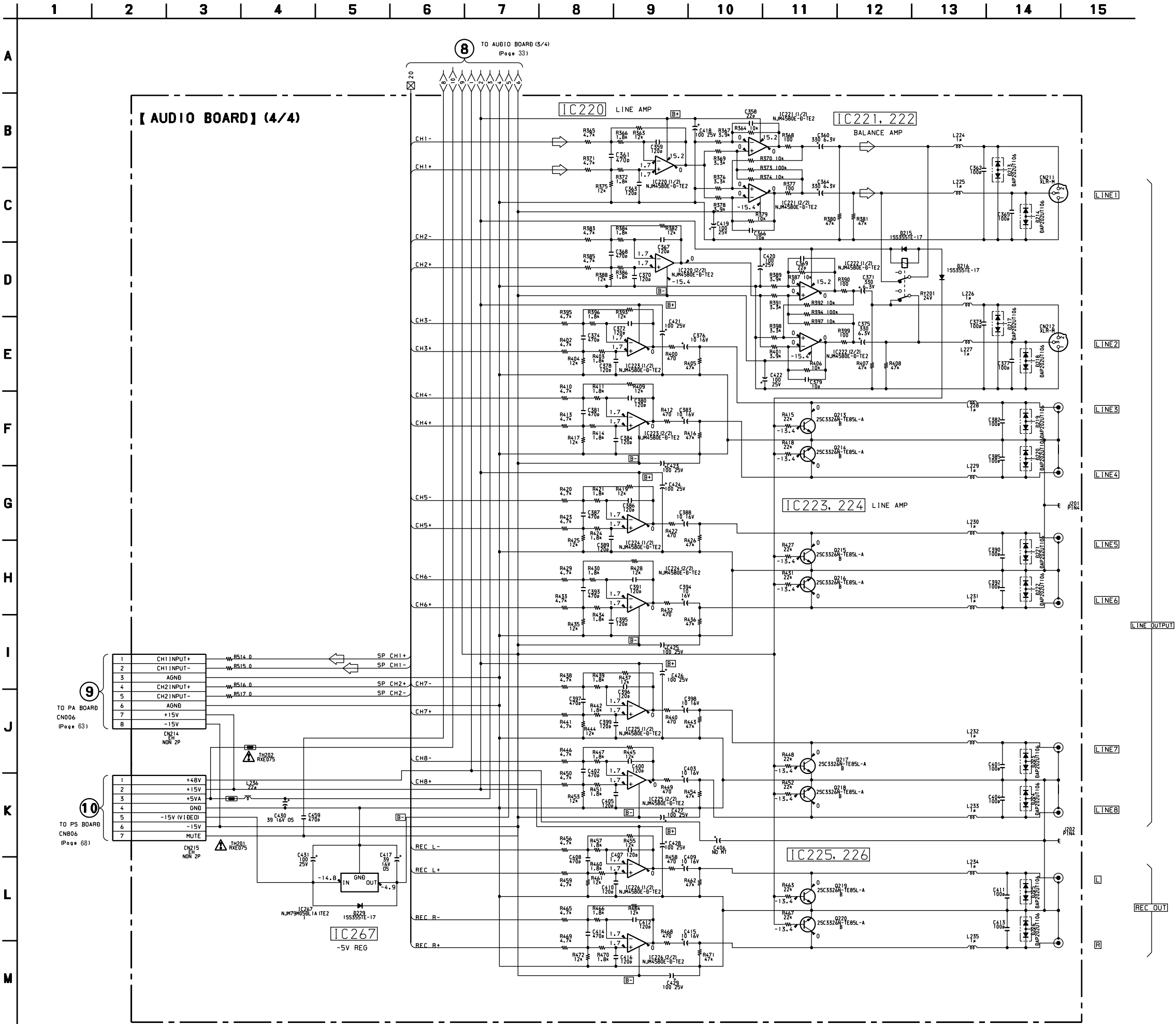
4-8. SCHEMATIC DIAGRAM – AUDIO BOARD (2/4) –

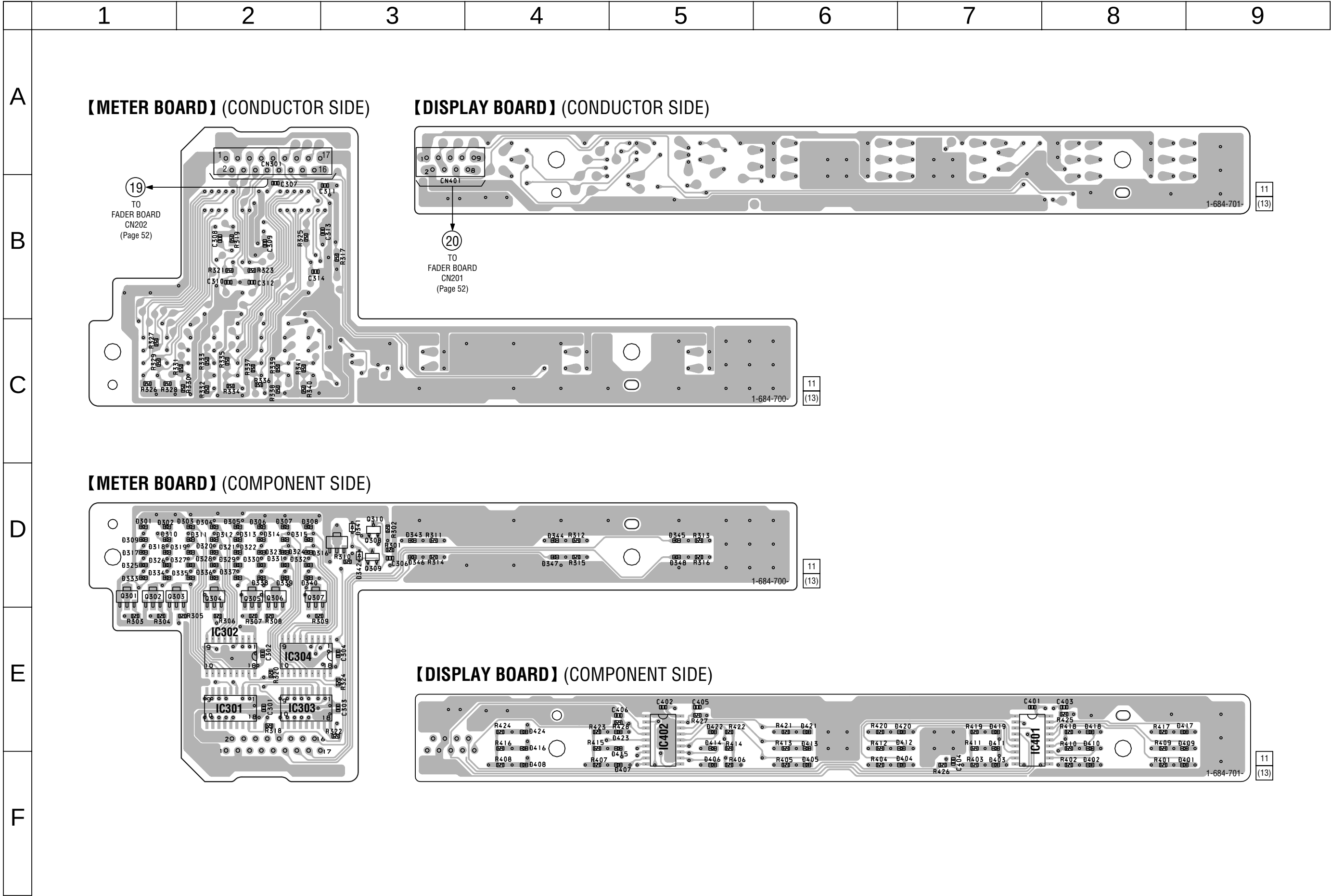


4-9. SCHEMATIC DIAGRAM – AUDIO BOARD (3/4) –

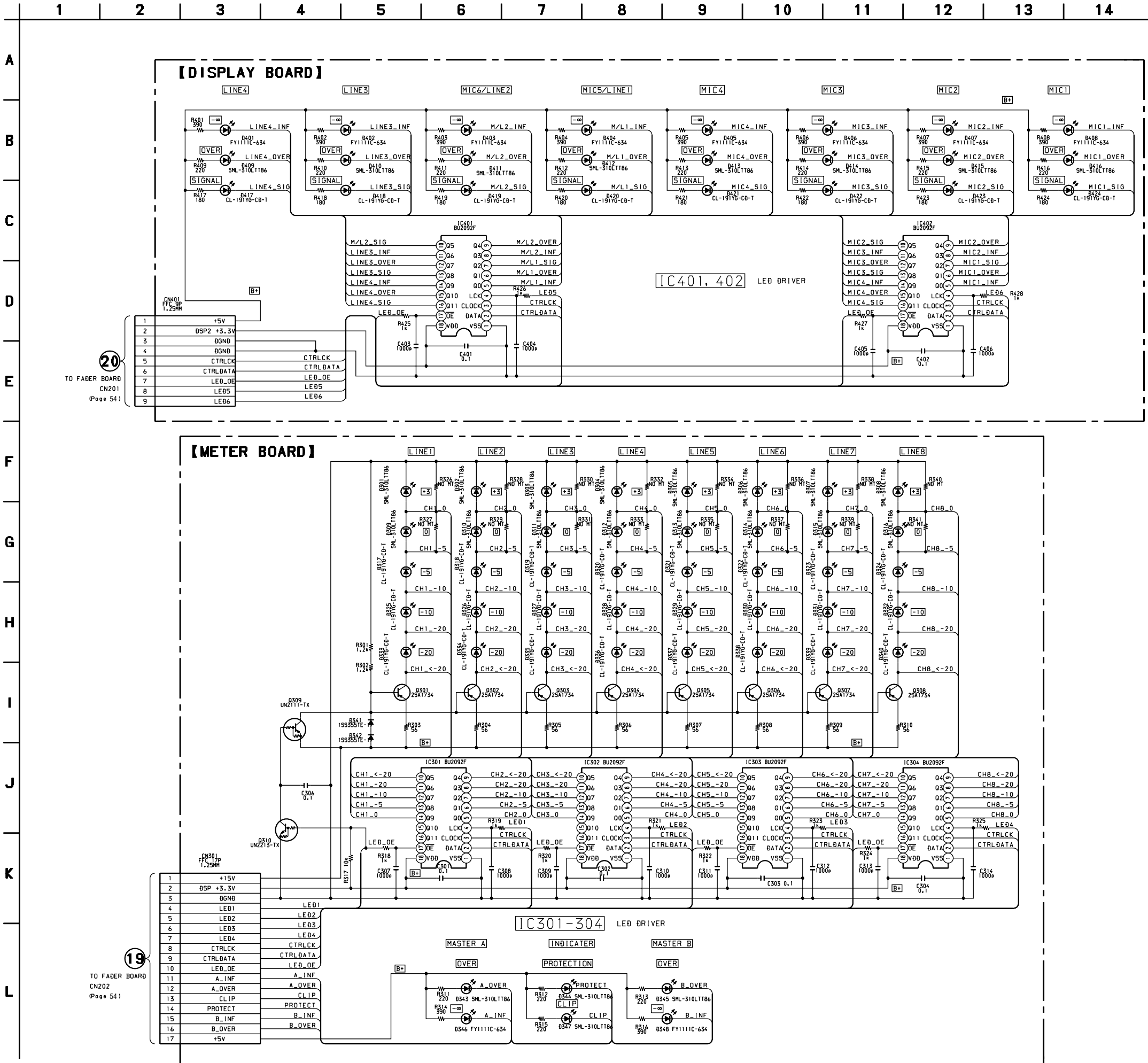


4-10. SCHEMATIC DIAGRAM – AUDIO BOARD (4/4) –





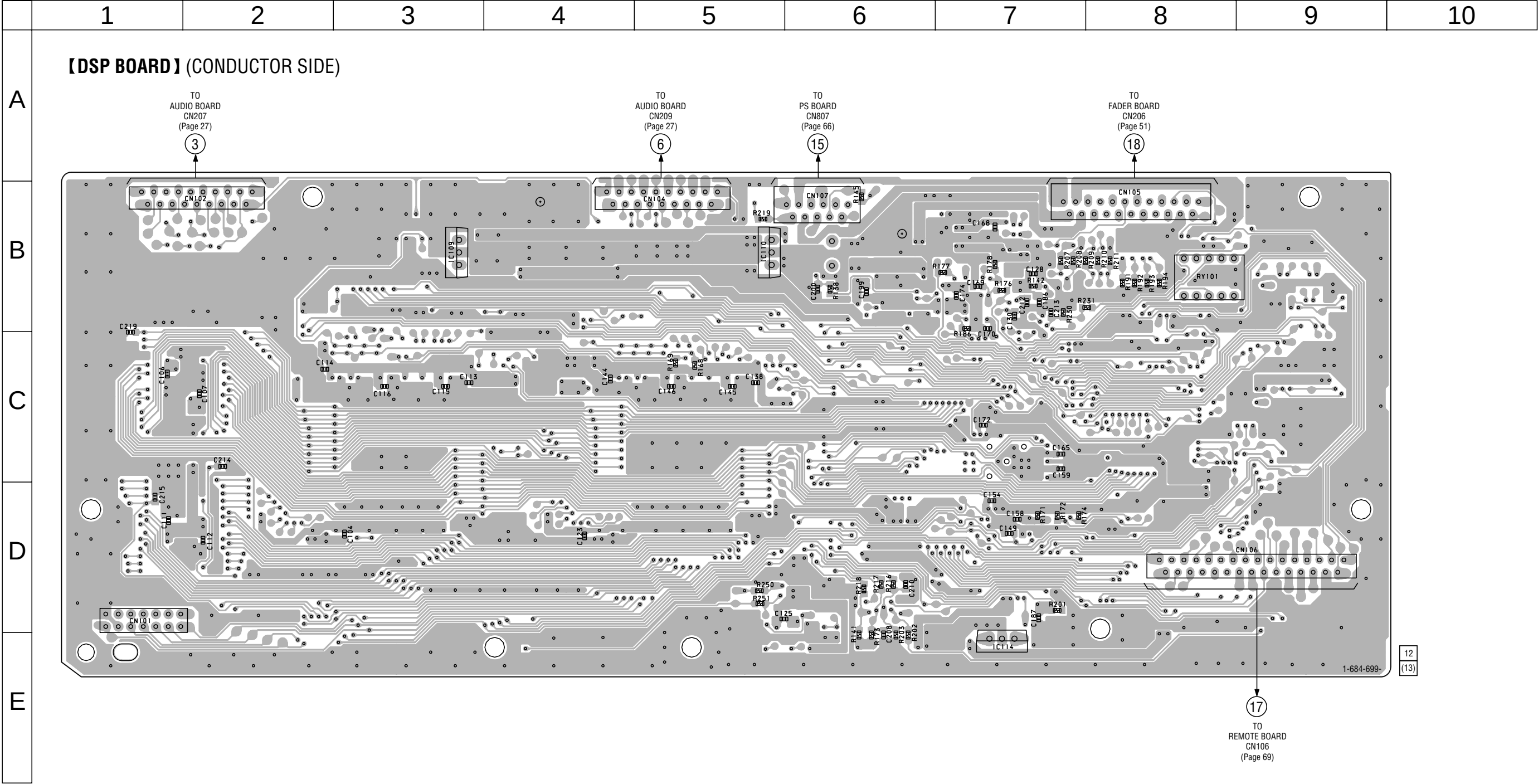
4-12. SCHEMATIC DIAGRAM – DISPLAY/METER BOARD –

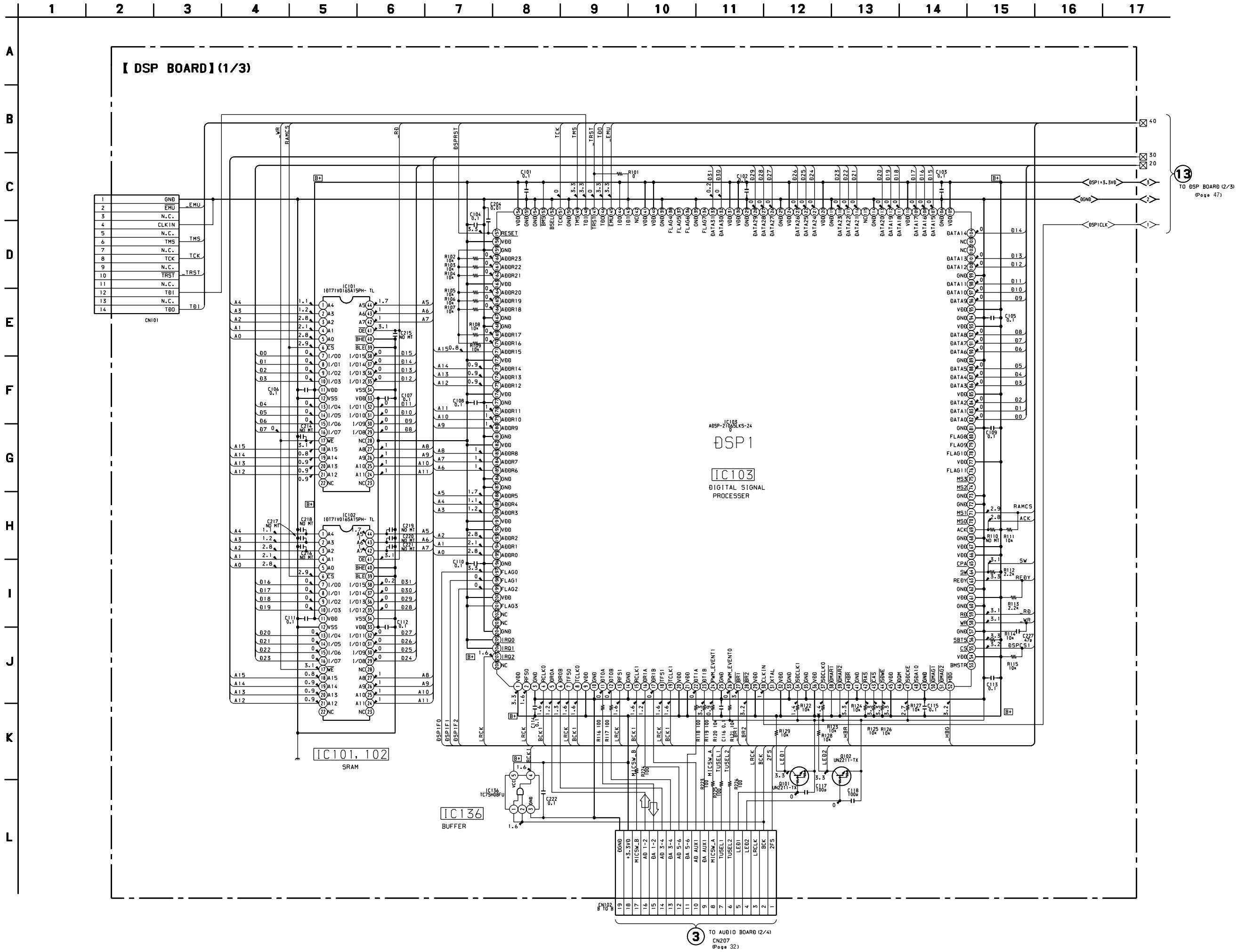


S/N 200001 ~ 200020
S/N 300001 ~ 300150
S/N 400001 ~ 400100

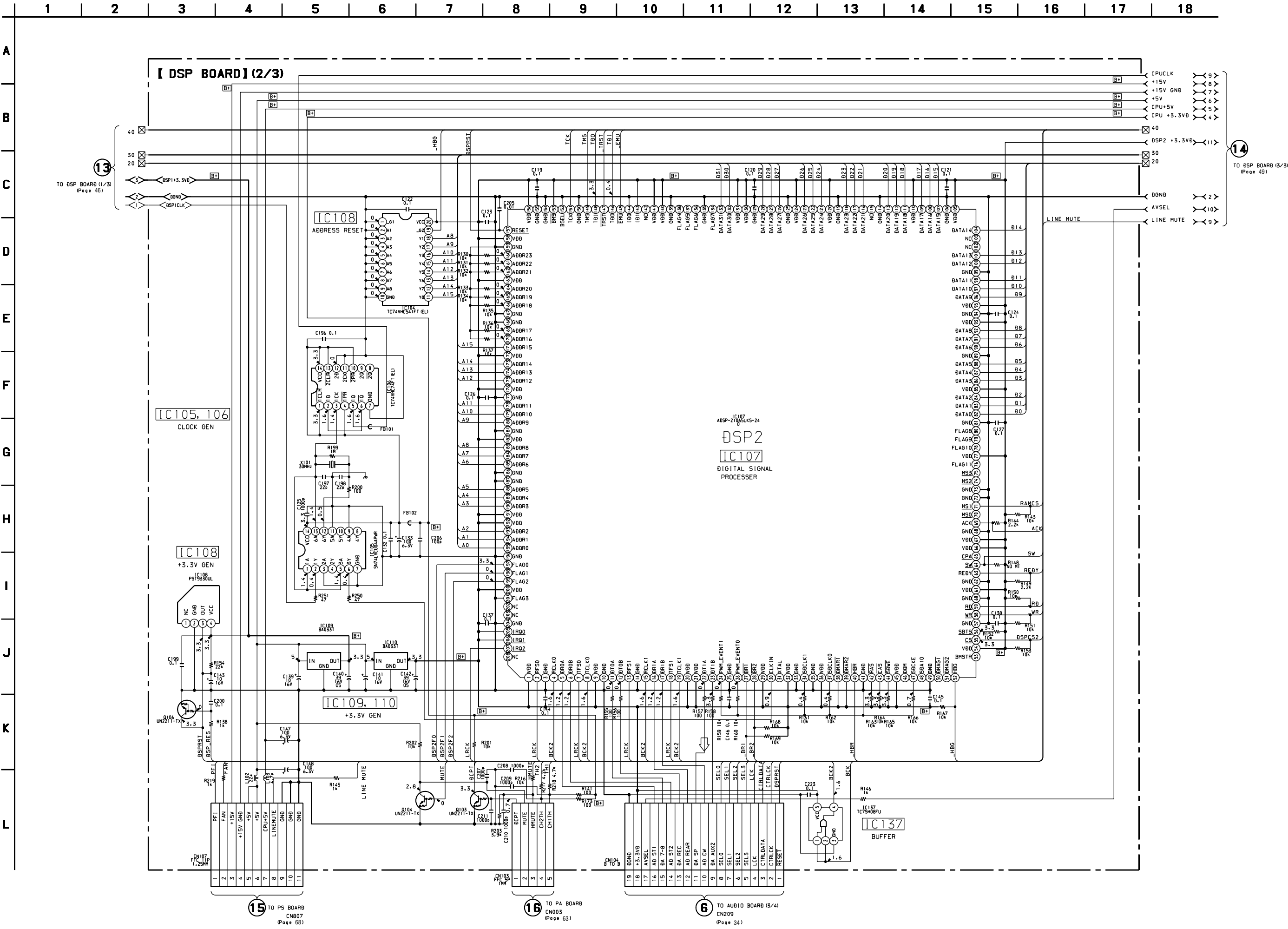
16
TO
PA BOARD
CN003
(Page 59)

4-14. PRINTED WIRING BOARD – DSP BOARD (2/2) – • See page 18 for Circuit Boards Location.

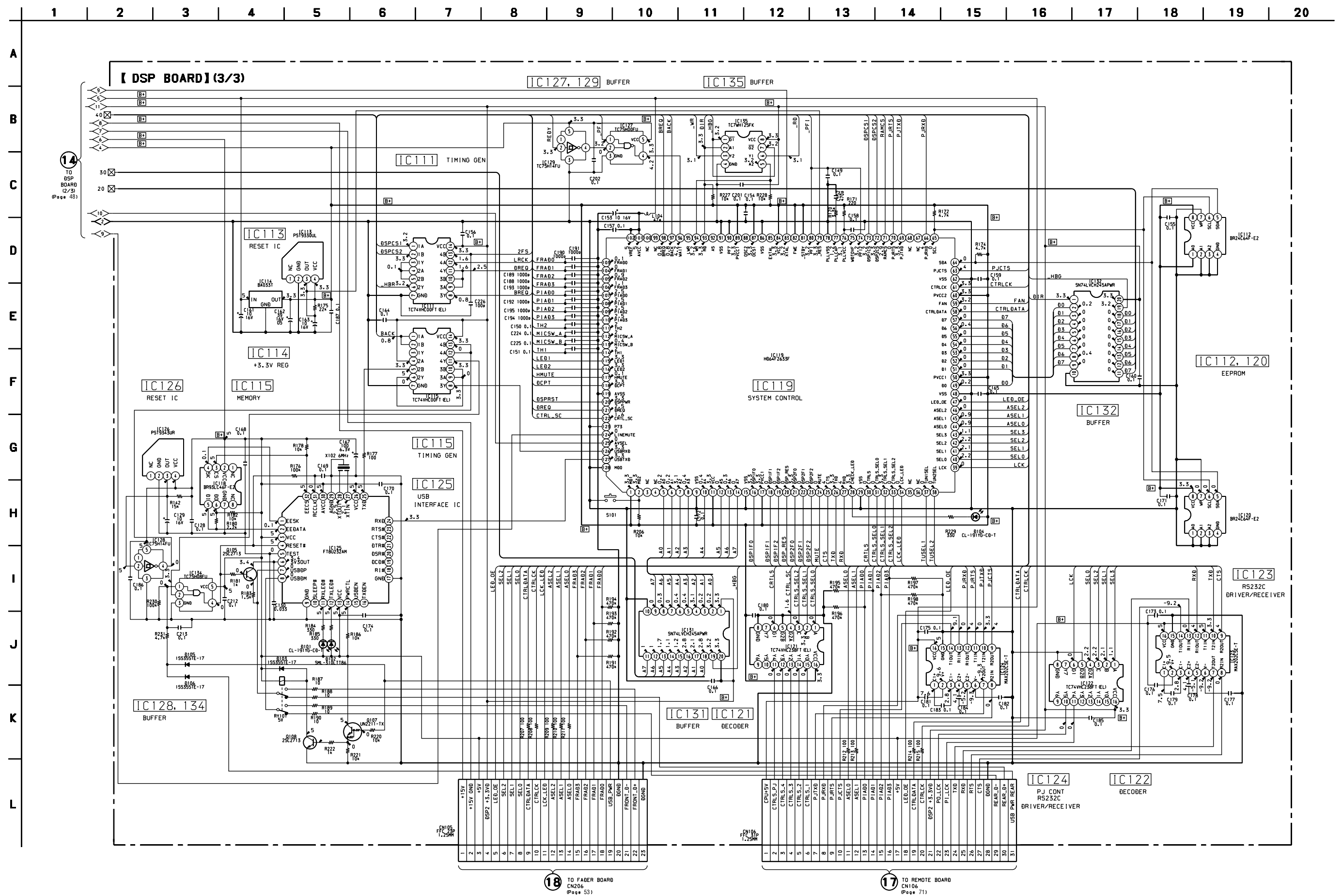




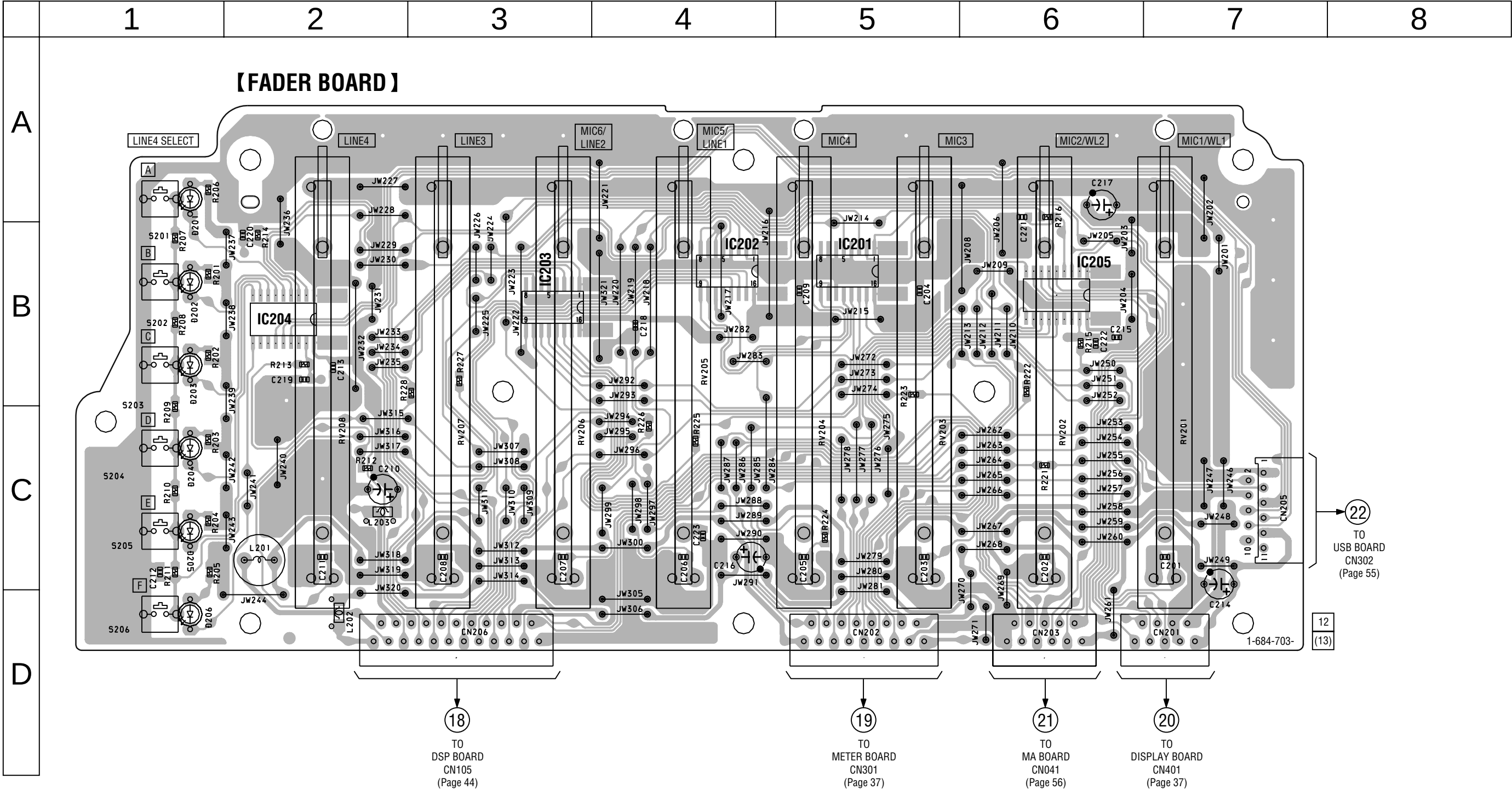
4-16. SCHEMATIC DIAGRAM – DSP BOARD (2/3) –

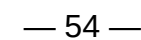


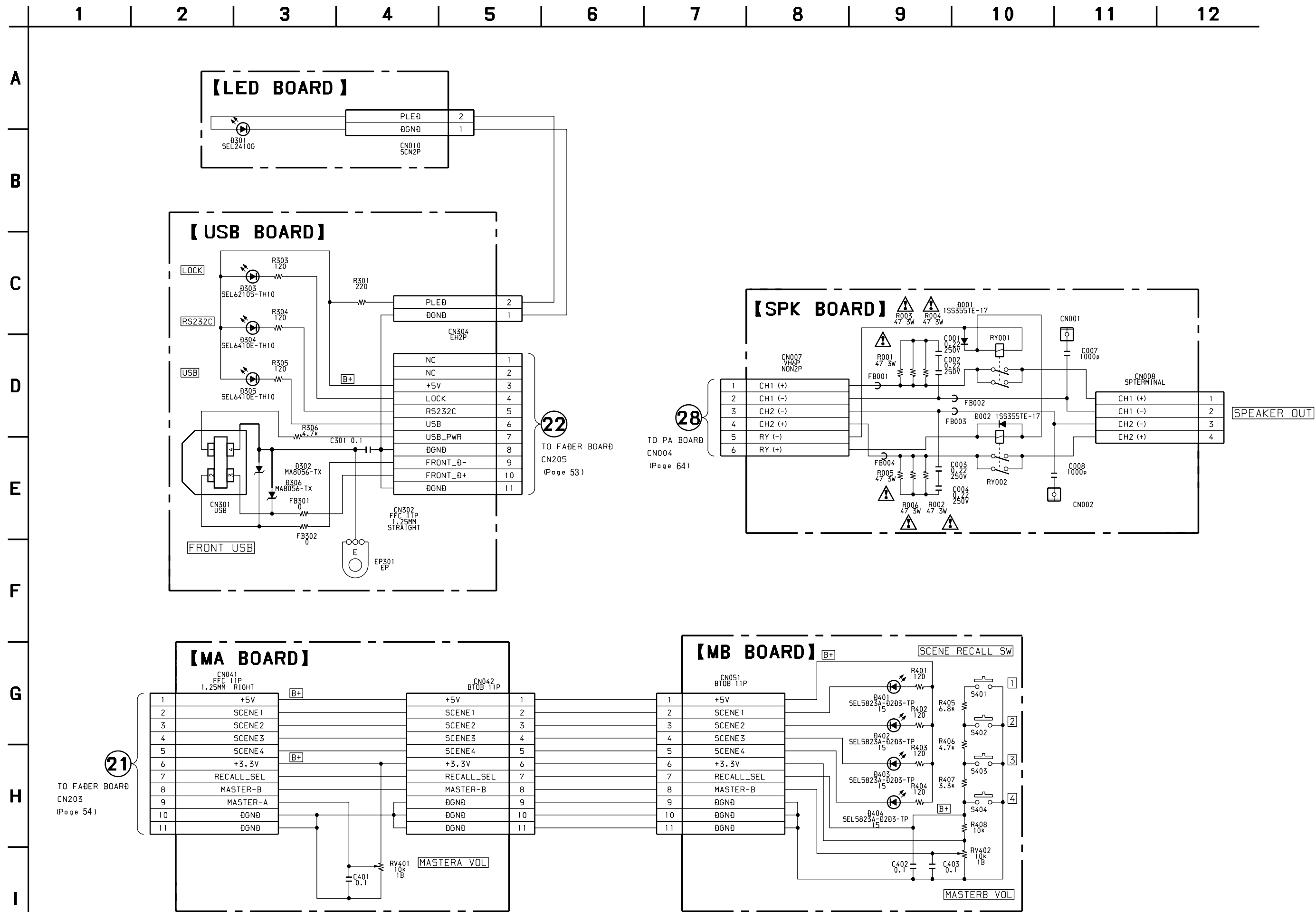
4-17. SCHEMATIC DIAGRAM – DSP BOARD (3/3) –

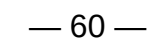


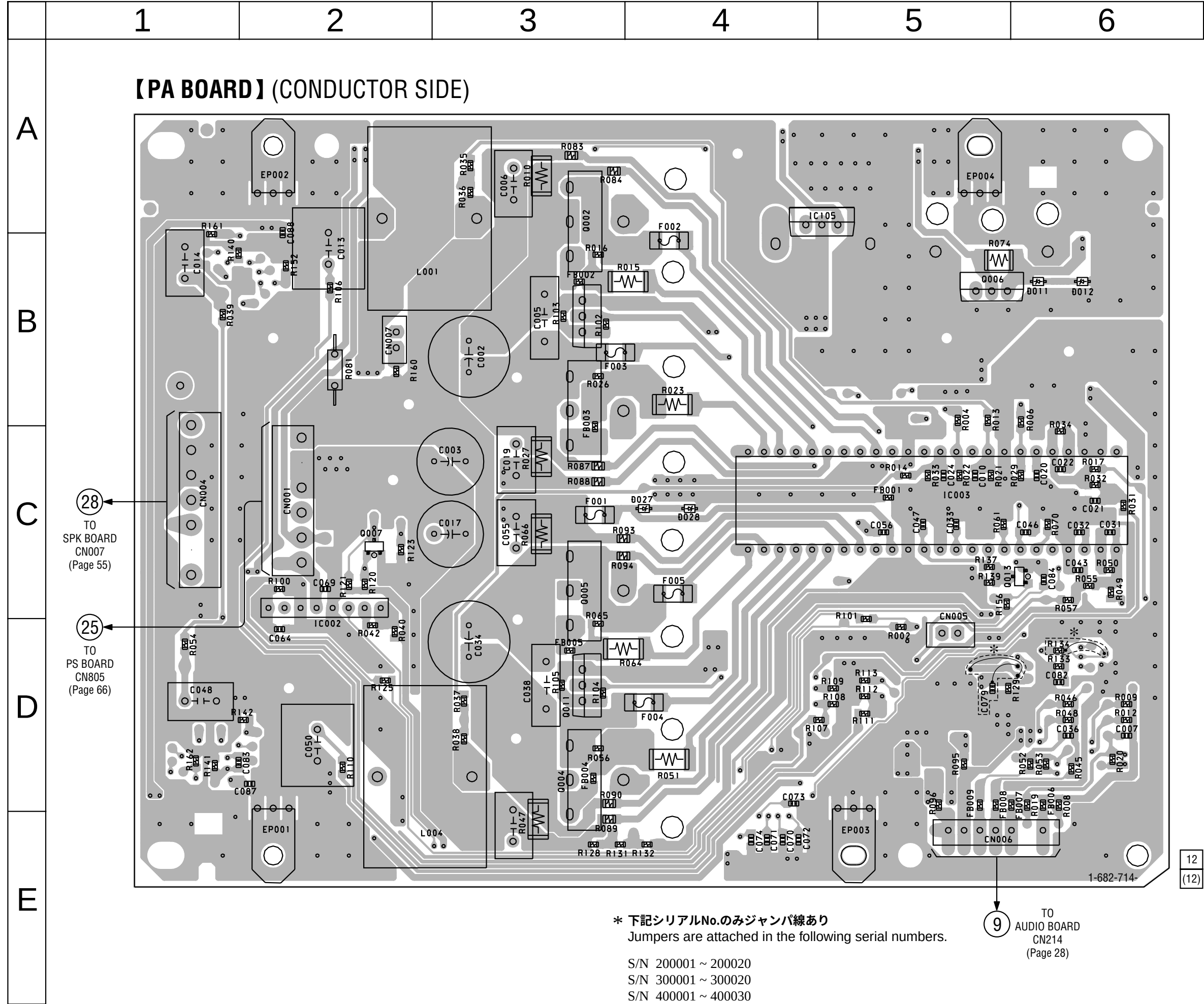
4-18. PRINTED WIRING BOARD – FADER BOARD – • See page 18 for Circuit Boards Location.



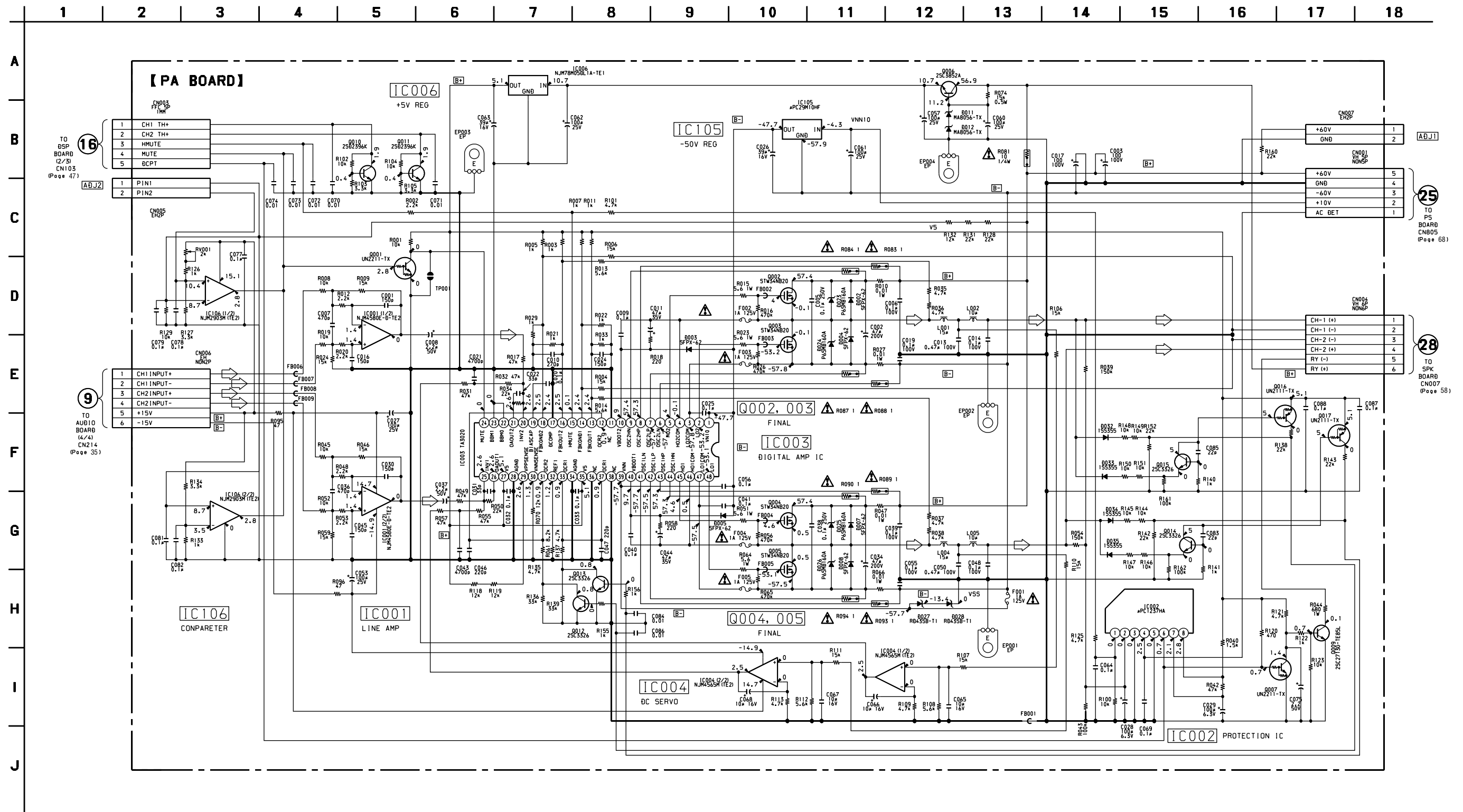


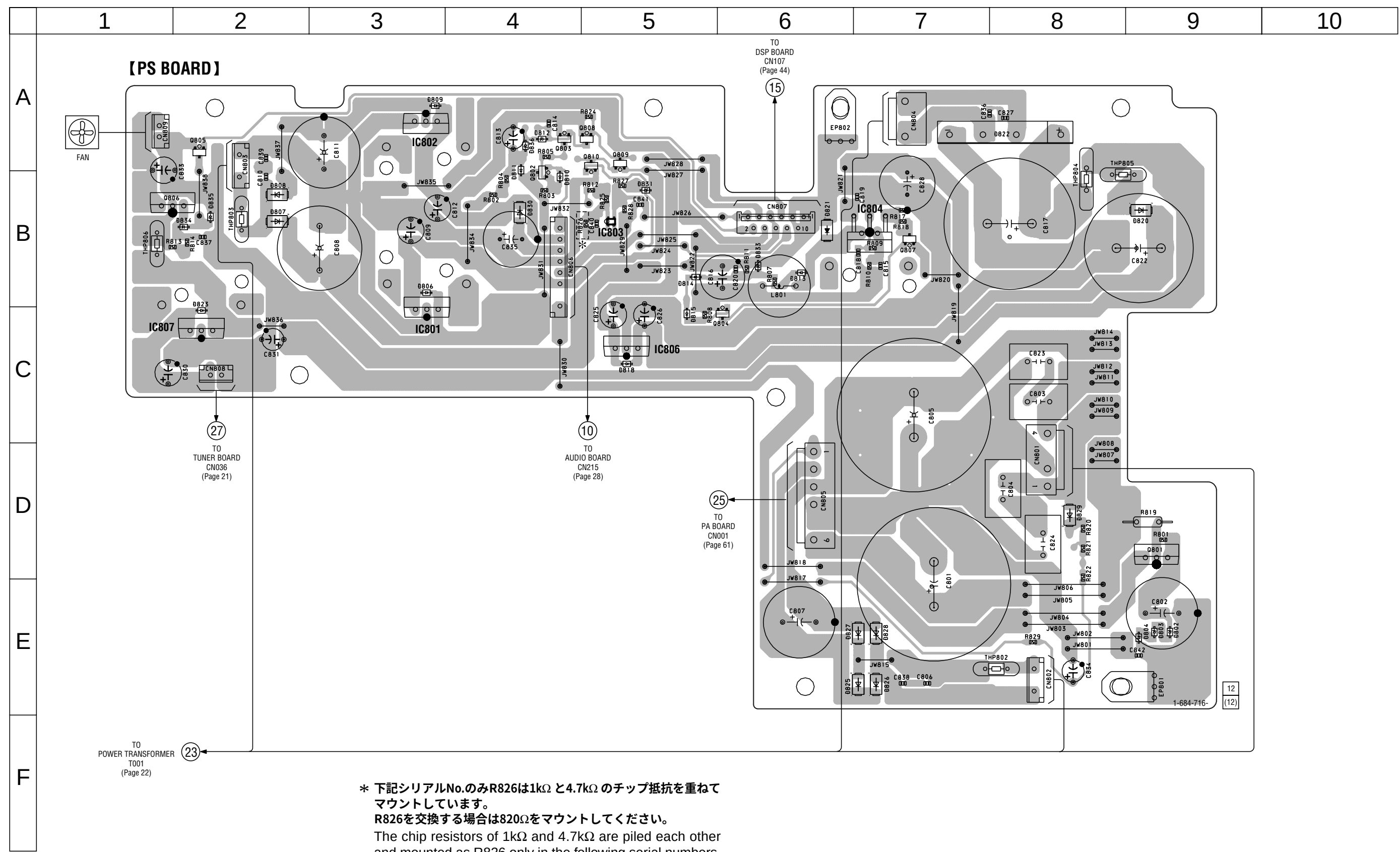




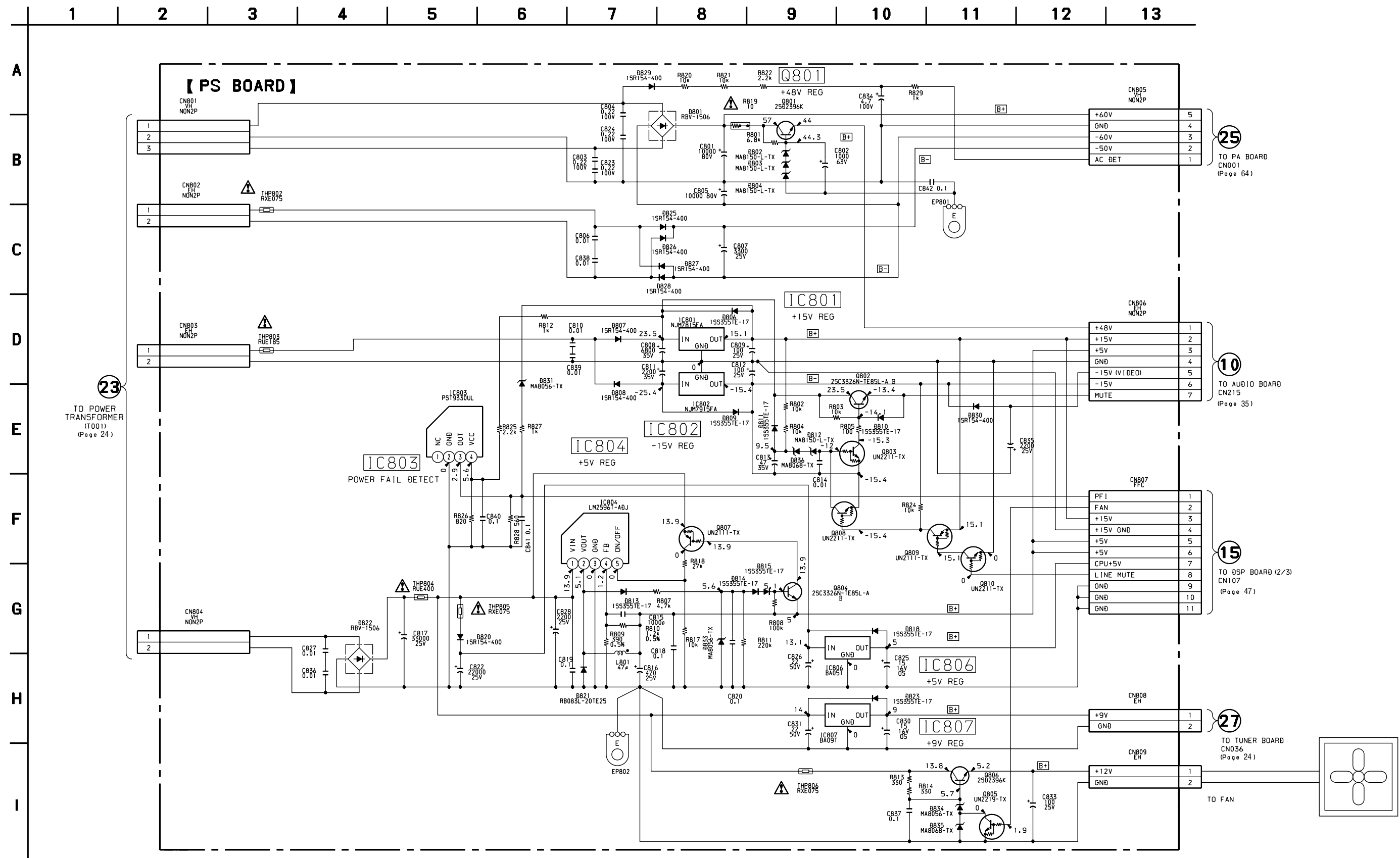


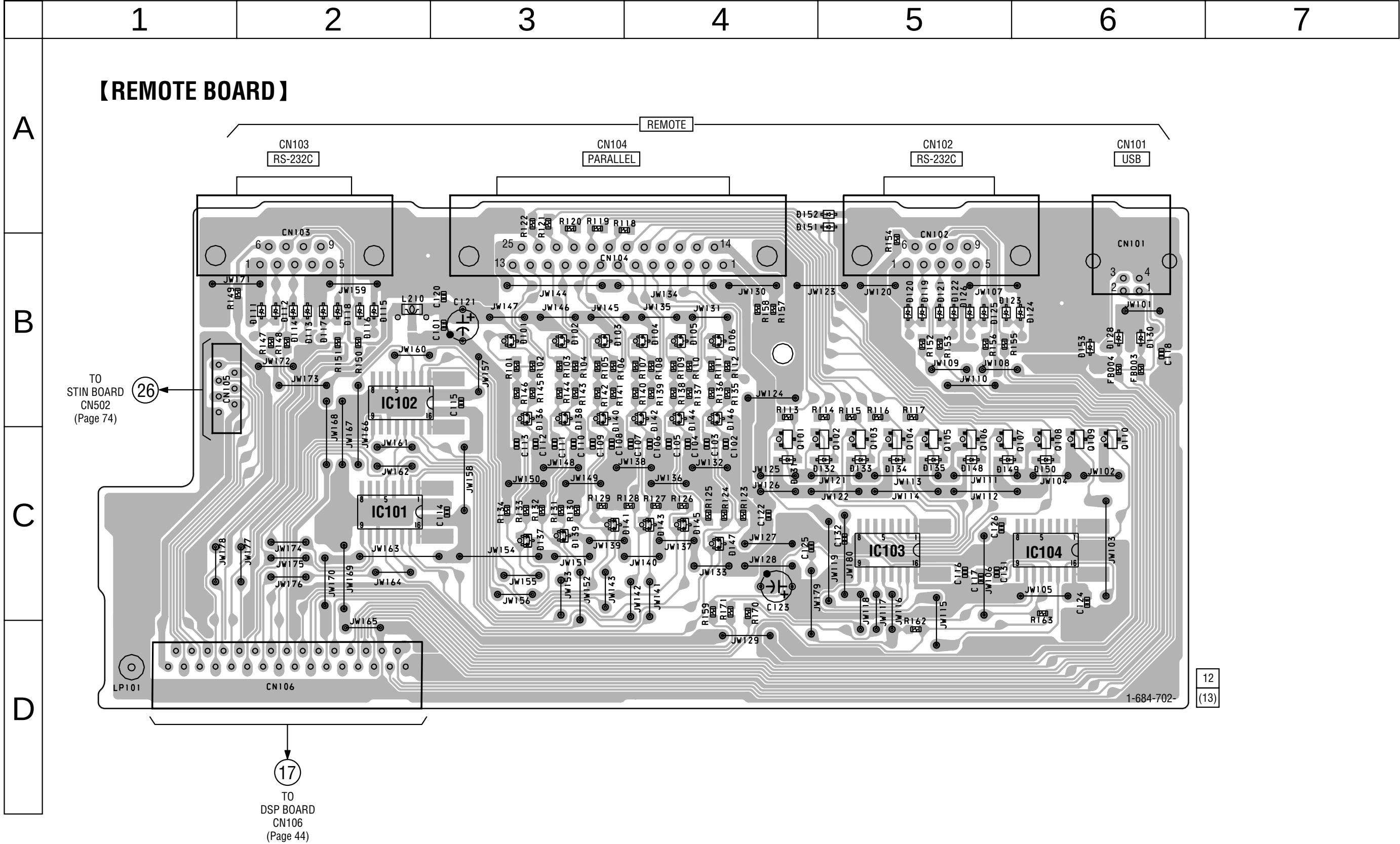
4-24. SCHEMATIC DIAGRAM – PA BOARD –



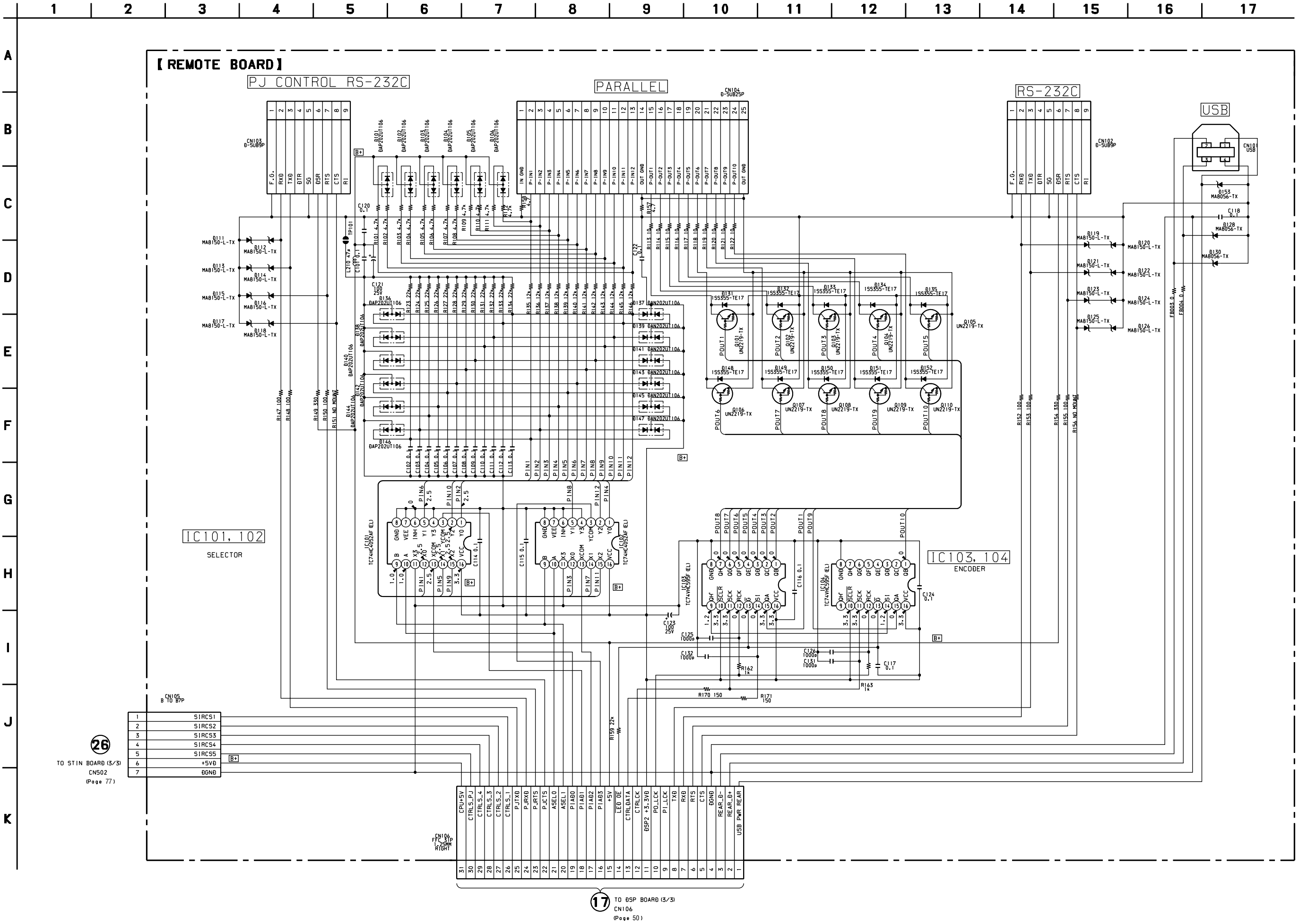


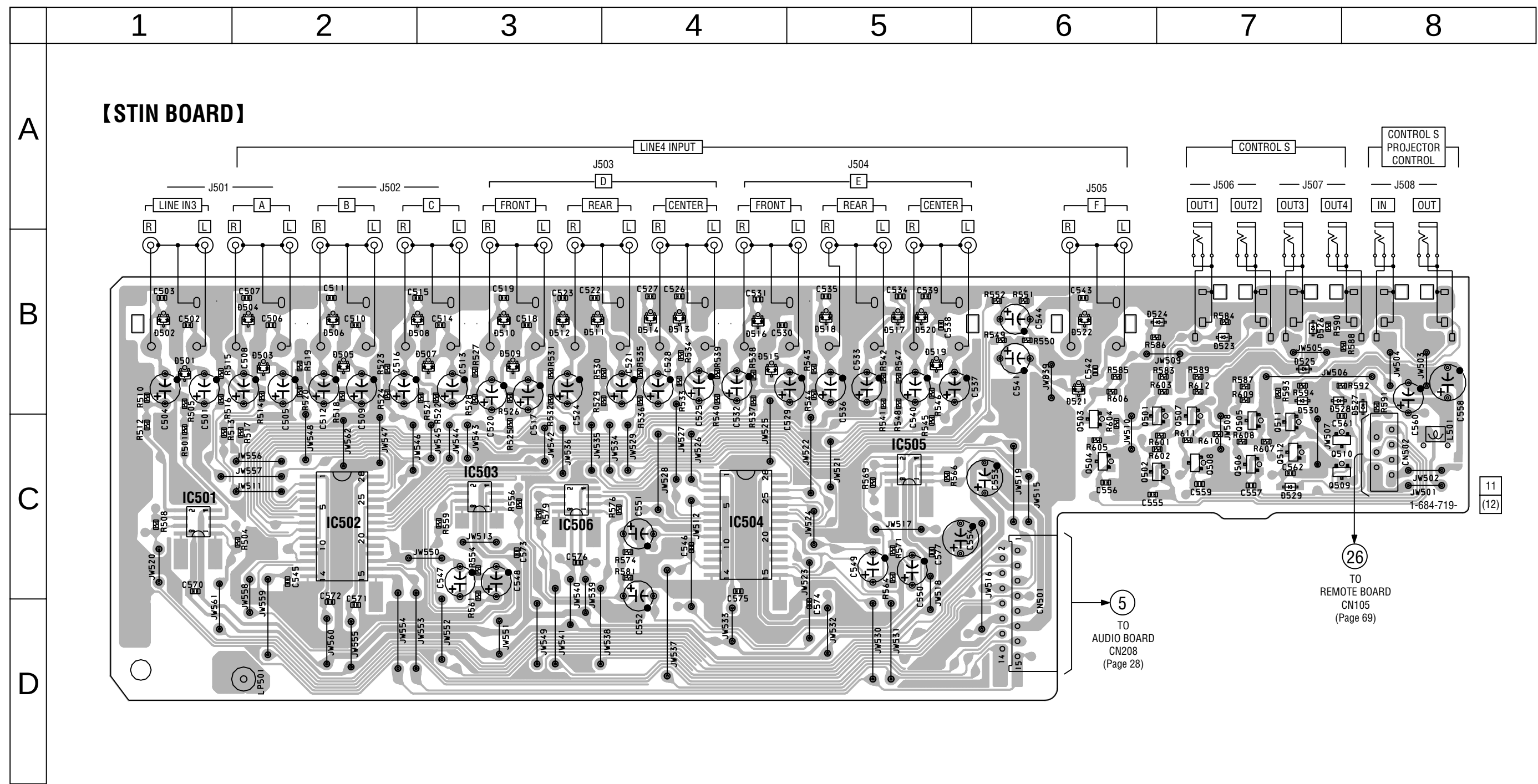
4-26. SCHEMATIC DIAGRAM – PS BOARD –



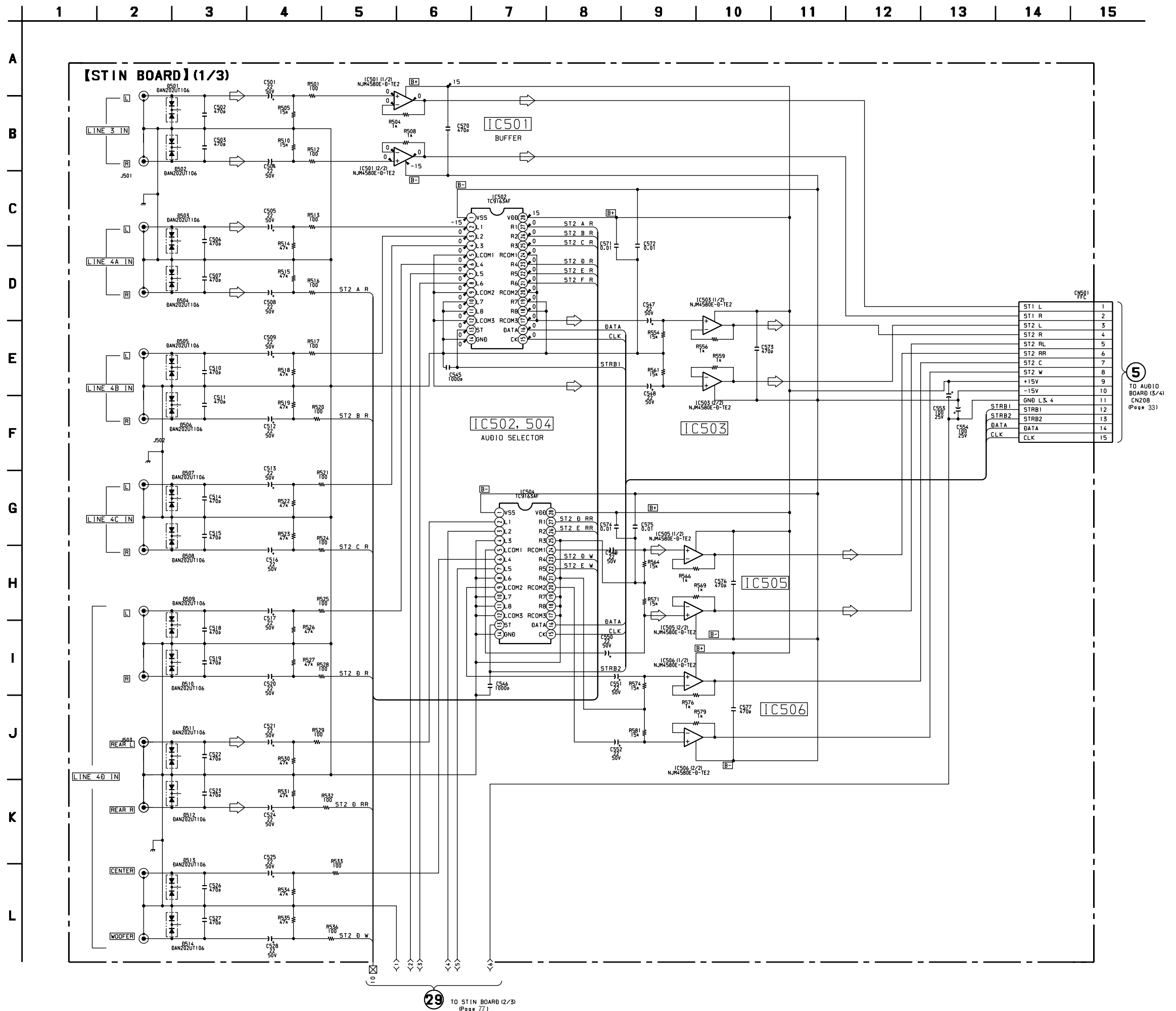


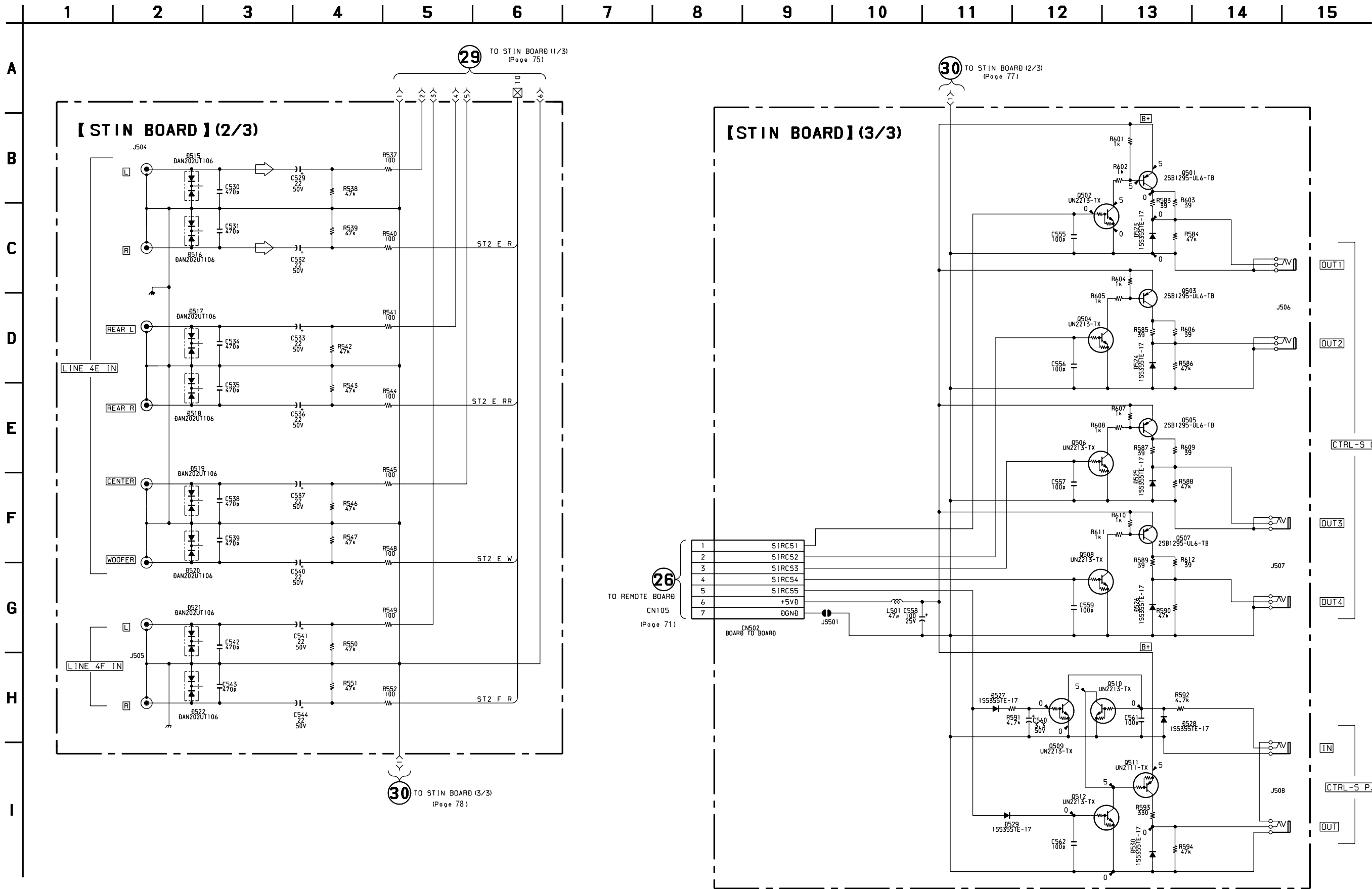
4-28. SCHEMATIC DIAGRAM – REMOTE BOARD –



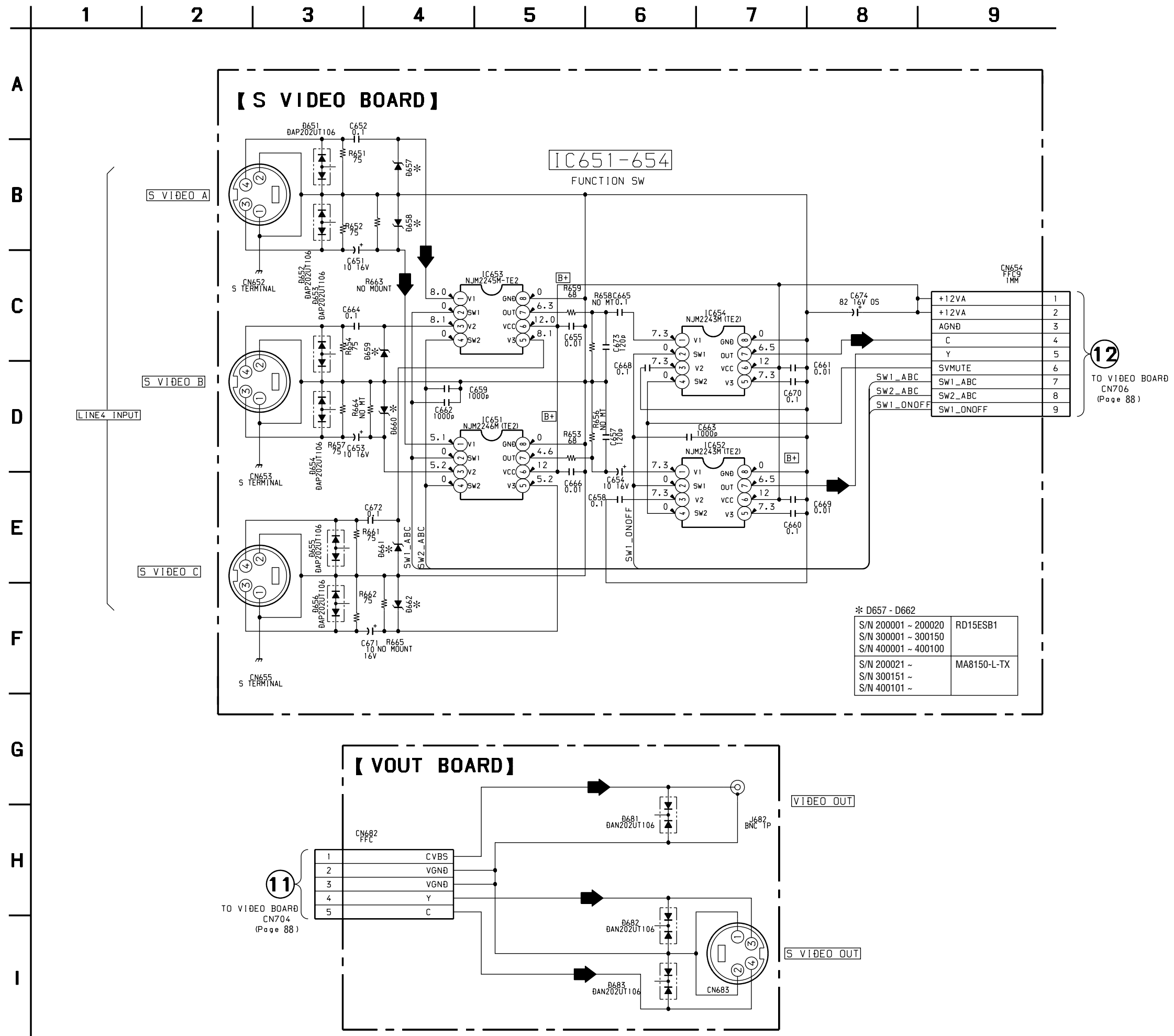


4-30. SCHEMATIC DIAGRAM – STIN BOARD (1/3) –

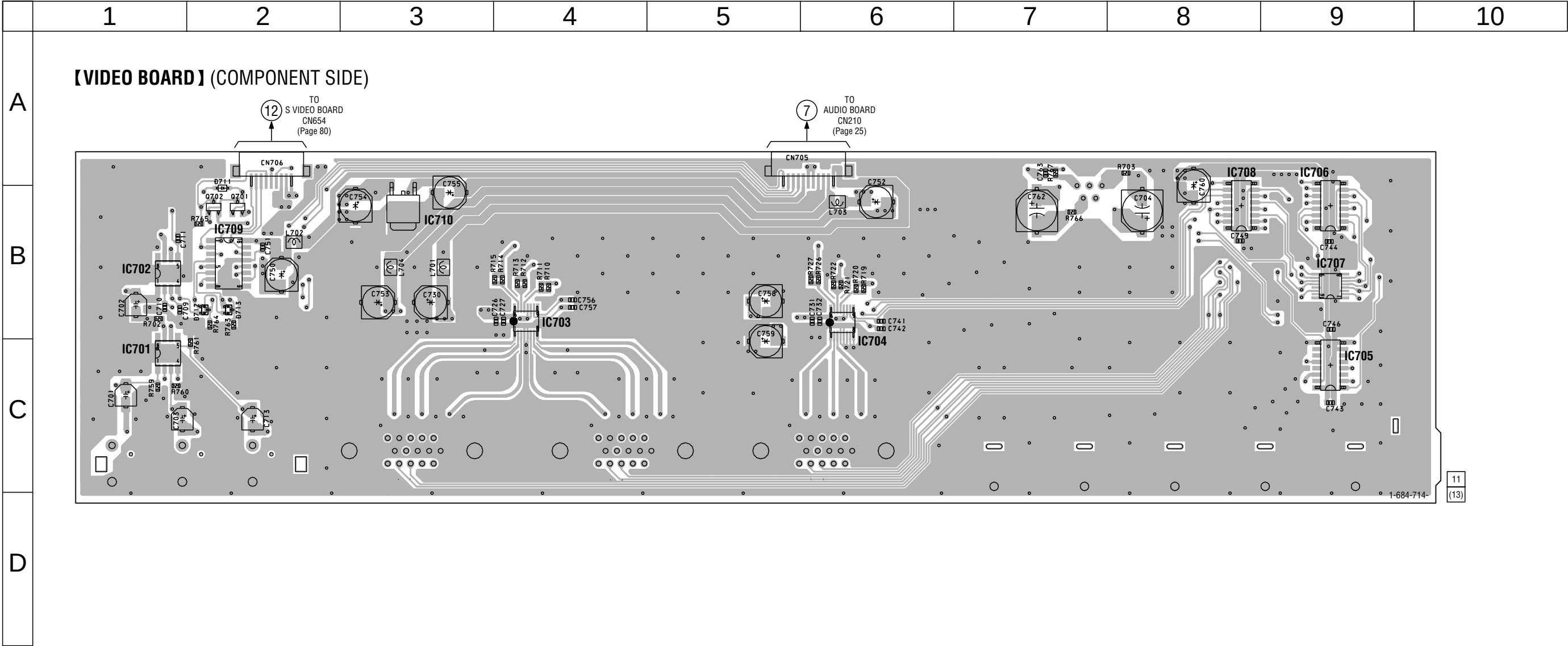


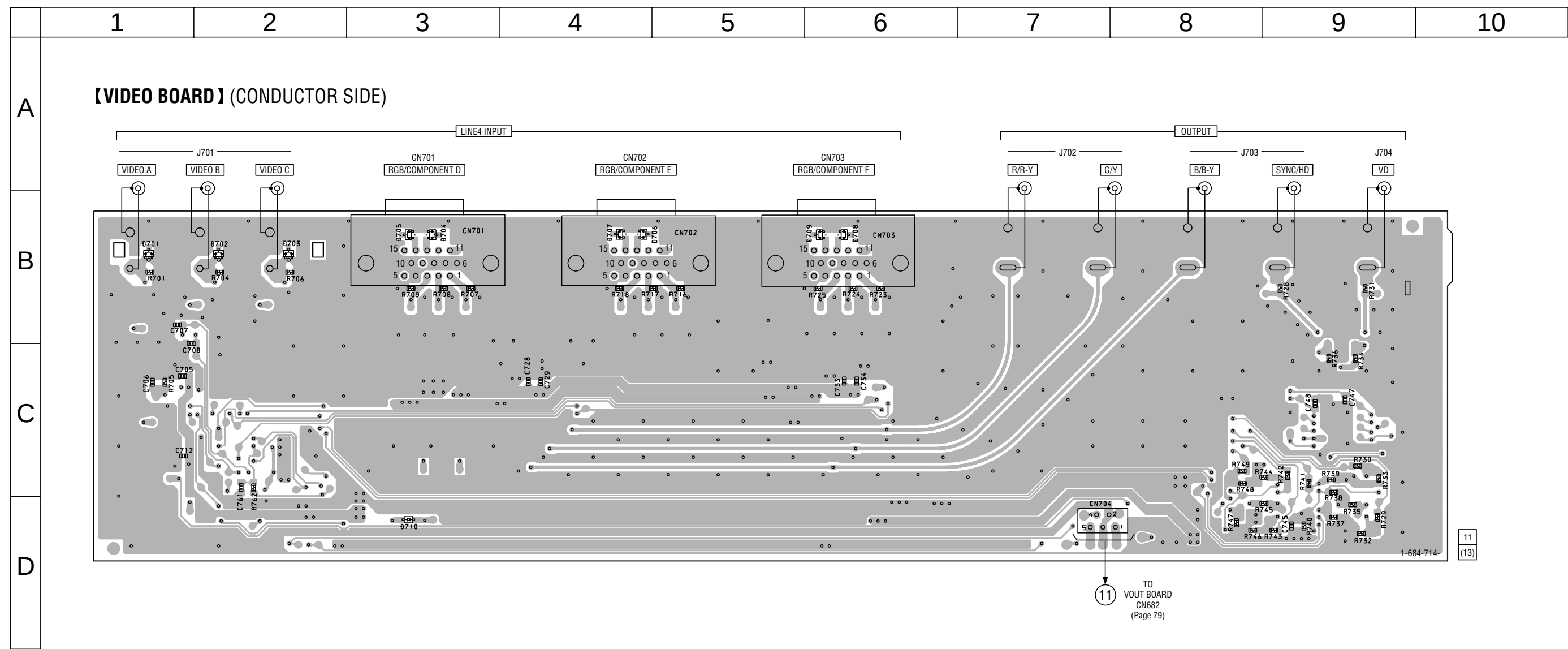


4-33. SCHEMATIC DIAGRAM – S VIDEO/VOUT BOARD –

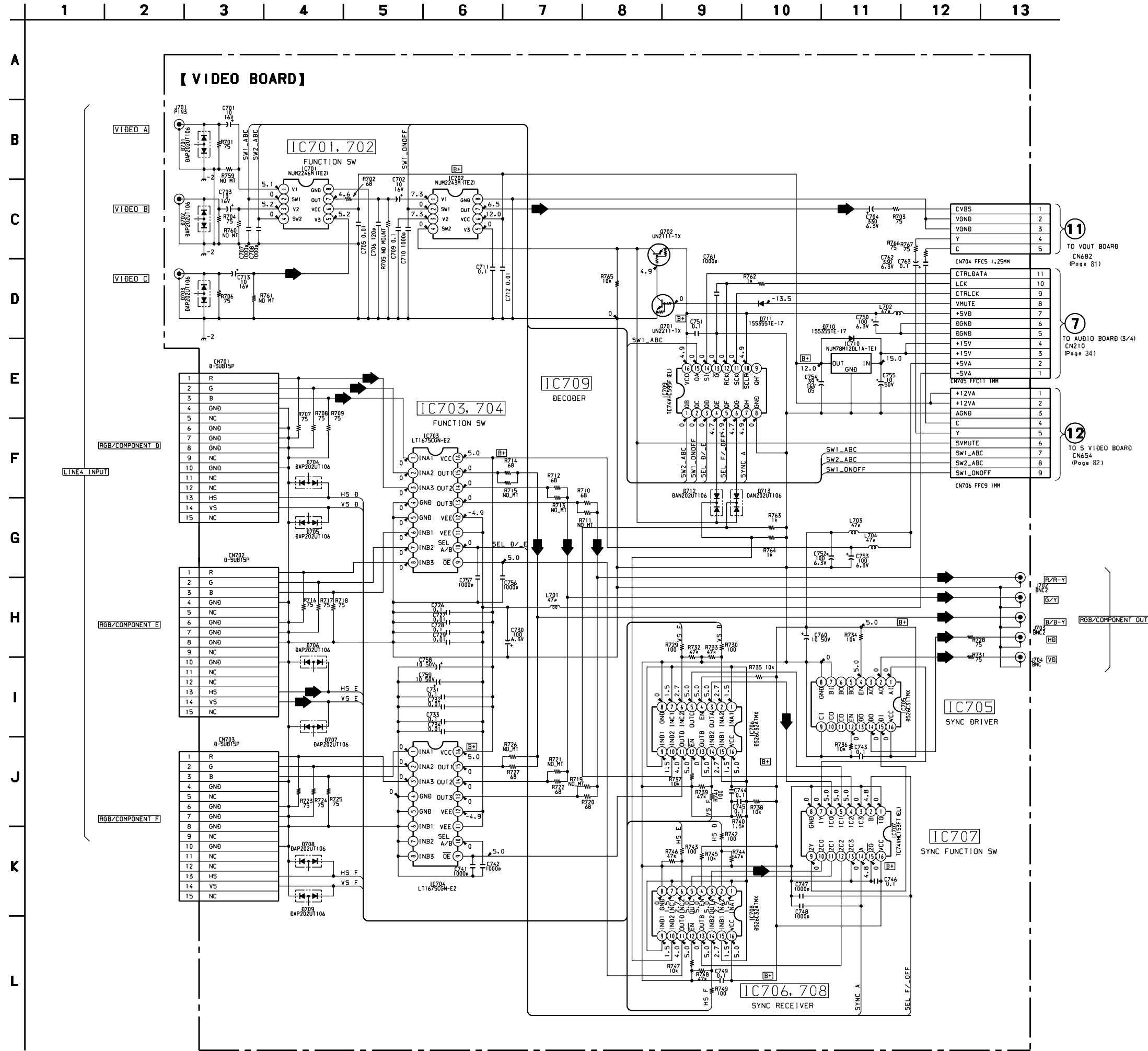


4-34. PRINTED WIRING BOARD – VIDEO BOARD (1/2) – • See page 18 for Circuit Boards Location.



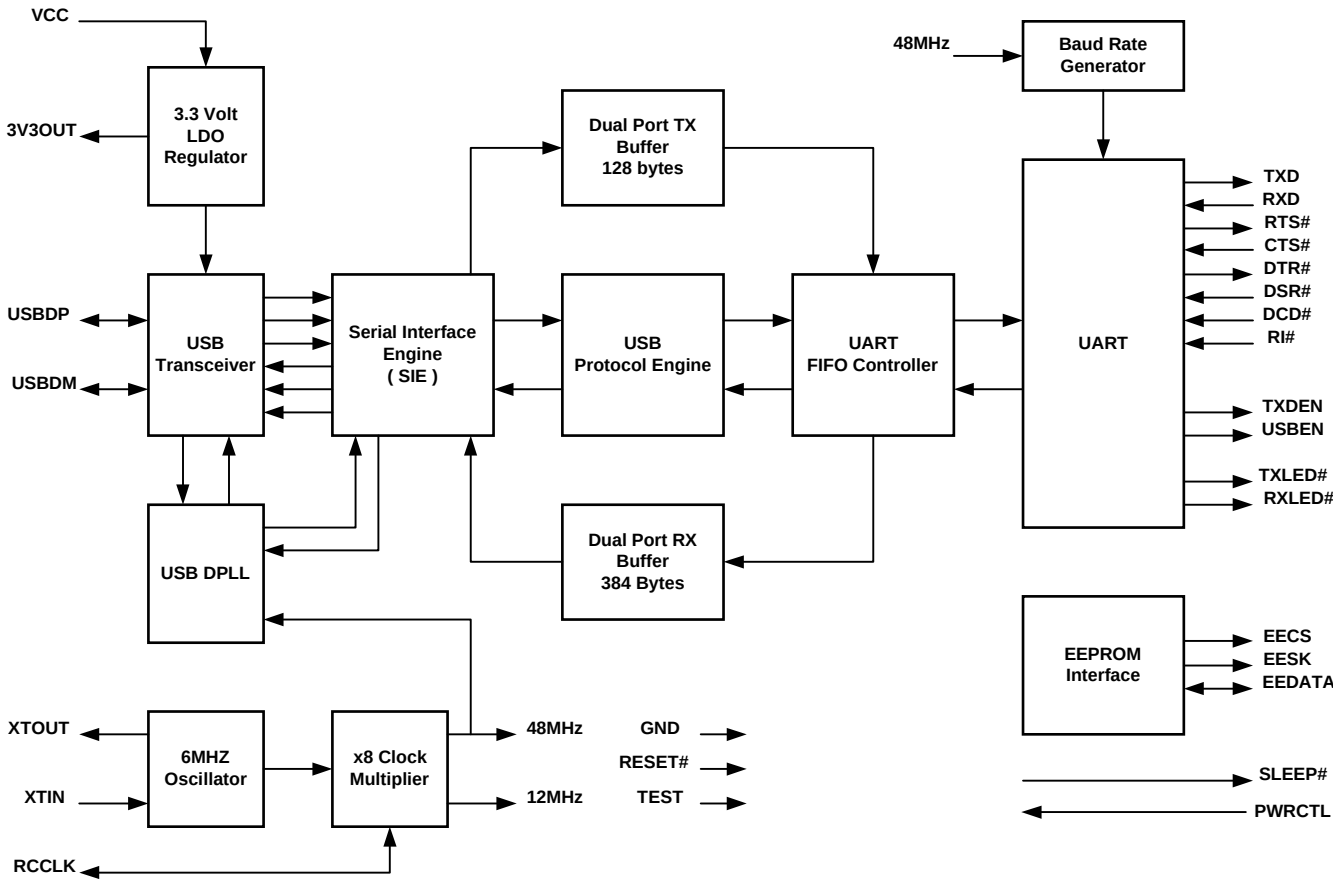


4-36. SCHEMATIC DIAGRAM – VIDEO BOARD –

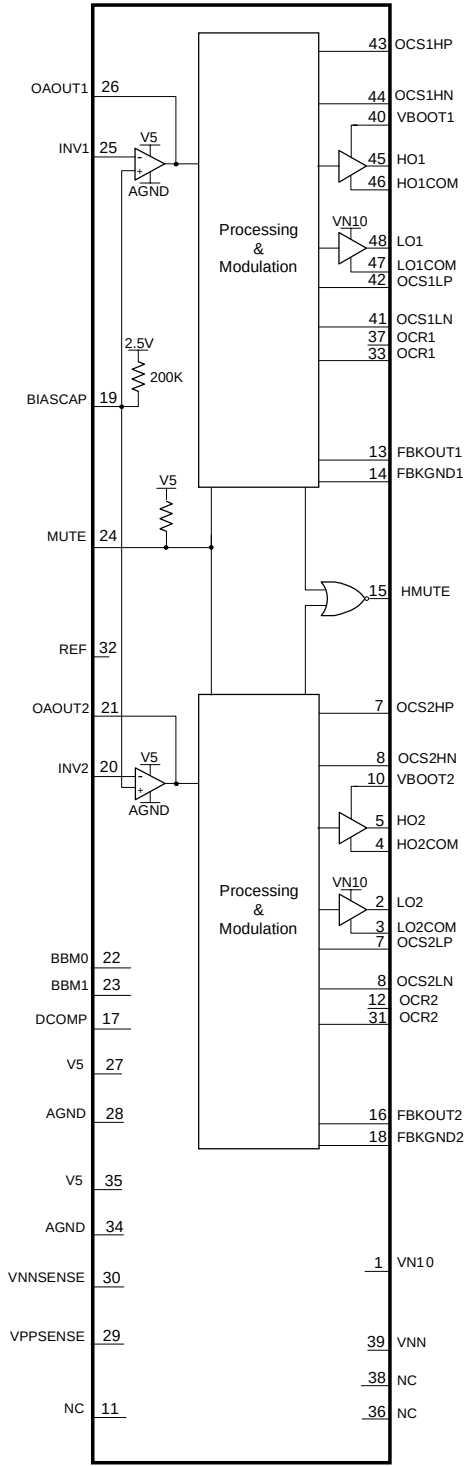


4-37. IC BLOCK DIAGRAMS

– DSP Board –
IC125 FT8U232AM



– PA Board –
IC003 TA3020



4-38. IC PIN FUNCTIONS

• IC119 HD64F2633F (System Control)

端子番号	端子名称	I/O	端子機能
1	MD1	I	H (+3.3V) 固定
2	MD2	I	H (+3.3V) 固定
3,4	N.C.	—	未使用
5-8	A0-A3	O	アドレス信号 0~3
9	VSS	—	GND
10	A4	O	アドレス信号 4
11	VCC	—	+3.3V
12-14	A5-A7	O	アドレス信号 5~7
15	VSS	—	GND
16	DSP1F0	O	DSP1 (IC103) 制御フラグ信号 0
17	PVCC1	—	+3.3V
18	DSP1F1	O	DSP1 (IC103) 制御フラグ信号 1
19	DSP1F2	O	DSP1 (IC103) 制御フラグ信号 2
20	DSP_RES	O	DSP (IC103,107), AD/DA (IC205,206,209,212-215) リセット制御端子
21	DSP2F0	O	DSP2 (IC107) 制御フラグ信号 0
22	DSP2F1	O	DSP2 (IC107) 制御フラグ信号 1
23	DSP2F2	O	DSP2 (IC107) 制御フラグ信号 2
24	MUTING	O	パワーアンプミューティング制御端子
25	CTS	I	REMOTE RS-232C端子 制御ライン
26	TXD	O	REMOTE RS-232C端子 送信データ
27	RXD	I	REMOTE RS-232C端子 受信データ
28	CHECK_LED	O	DSP動作確認LED端子
29	N.C.	—	未使用
30	CTRLS	O	コントロールSコマンド出力端子
31-33	CTRLS_SEL0-3	O	コントロールS出力チャンネル選択
34	LCK_LED	O	LEDドライバ (IC301-304,401,402) シリアルデータラッチ信号
35,36	N.C.	—	未使用
37	TUN1SEL	O	MIC1/WL1入力選択端子 L:MIC1選択 H:WL1選択
38	TUN2SEL	O	MIC2/WL2入力選択端子 L:MIC2選択 H:WL2選択
39	LCK	O	ペリフェラル制御用シリアルデータラッチ信号
40-43	SEL0-3	O	ペリフェラル制御用シリアルデータ送信デバイス選択端子
44-46	ASEL0-2	O	VR,SW検出用A/DコンバータのVR,SW選択端子
47	LED_OE	O	LED,パラレルOUTPUTイネーブル端子
48	VSS	—	GND
49	D0	I/O	データバス0
50	PVCC1	—	+3.3V
51-57	D1-7	I/O	データバス1~7
58	CTRLDATA	O	ペリフェラル制御用同期シリアルデータ出力端子
59	FAN	O	ファンモータ回転数制御端子 L:高速 H:低速
60	N.C.	—	未使用
61	CTRLCK	O	ペリフェラル制御用シリアル信号 クロック端子
62	VSS	—	GND
63	PJCTS	I	PROJECTOR CONTROL RS-232C端子 制御ライン
64	SDA	I/O	EEPROMデータ転送用I2Cバス データ端子
65	SCL	O	EEPROMデータ転送用I2Cバス クロック端子
66	PJRXD	I	PROJECTOR CONTROL RS-232C端子 受信データ
67,68	N.C.	—	未使用
69	PJTXD	O	PROJECTOR CONTROL RS-232C端子 送信データ
70	PJRTS	O	PROJECTOR CONTROL RS-232C端子 制御ライン

端子番号	端子名称	I/O	端子機能
71	RAMCS	O	RAM (IC101,102) チップセレクト端子
72	DSP2CS	O	DSP2 (IC107) チップセレクト端子
73	DSP1CS	O	DSP1 (IC103) チップセレクト端子
74	PFI2	I	PFI確認用端子
75	WDTOVF	—	未使用
76	PLLVCC	—	+3.3V
77	PLLCAP	—	PLL用外付けコンデンサ端子
78	PLLVSS	—	GND
79	RES	I	リセット端子
80	PFI	I	停電検出端子
81	STBY	I	H (+3.3V) 固定
82	FEW	I	H (+3.3V) 固定
83	XTAL	I	クロック (15MHz) 入力端子
84	VCC	—	+3.3V
85	EXTAL	—	未使用
86	VSS	—	GND
87	OCS1	—	H (+3.3V) 固定
88	OCS2	—	未使用
89	PVCC1	—	+3.3V
90	PF7	I	L (GND) 固定
91	VSS	—	GND
92	AS	—	未使用
93	RD	O	メモリーリード端子
94	WR	O	メモリーライト端子
95	LWR	—	未使用
96	WAIT	I	DSPデータライト時ウエイト要求端子
97	BACK	O	DSPバス使用権要求アクノリッジ端子
98	BREQ	I	DSPバス使用権要求端子
99-100	N.C.	—	未使用
101	AVCC	—	+5V
102	VREF	I	A/Dコンバータ基準電圧端子 +5V固定
103-106	FRAD0-3	I	フロントパネルVR,SW検出用A/Dコンバータ入力端子
107-110	PIAD0-3	I	パラレル入力端子検出用A/Dコンバータ入力端子
111	TH1	I	パワーアンプCH1温度検出用A/Dコンバータ入力端子
112	MICSW_A	I	MIC1-3バックパネルSW ON/OFF検出用A/Dコンバータ入力端子
113	MICSW_B	I	MIC4-6バックパネルSW ON/OFF検出用A/Dコンバータ入力端子
114	TH2	I	パワーアンプCH2温度検出用A/Dコンバータ入力端子
115	LED1	I	ワイヤレスチューナ1 RF LED検出端子
116	LED2	I	ワイヤレスチューナ2 RF LED検出端子
117	HMUTING	I	パワーアンプIC (IC003) HMUTING検出端子
118	DCPT	I	パワーアンプミューティングリレーON/OFF検出端子
119	AVSS	—	GND
120	DSPPPWR	I	DSPリセット解除確認端子
121	DREQ	I	DSP-CPU間データ転送用DMAのデータ転送開始端子
122	CTRLS_SC	O	コントロールSサブキャリア出力端子 (40kHz)
123	P73	I	L (GND) 固定
124	LINEMUTE	O	LINE OUT/REC OUTミューティング端子
125	AVSEL	O	LINE4 AUDIO SELECTOR IC (IC502,504) シリアルデータイネーブル端子
126	USBRXD	I	USB受信データ
127	USBTXD	O	USB送信データ
128	MD0	—	L (GND) 固定

• IC119 HD64F2633F (System Control)

Pin No.	Pin Name	I/O	Description
1	MD1	I	Fixed to high. (+3.3V)
2	MD2	I	Fixed to high. (+3.3V)
3,4	N.C.	–	Not used.
5-8	A0-A3	O	Address signal 0 to 3.
9	VSS	–	GND.
10	A4	O	Address signal 4.
11	VCC	–	+3.3V.
12-14	A5-A7	O	Address signal 5 to 7.
15	VSS	–	GND.
16	DSP1F0	O	DSP1 (IC103) control flag signal 0.
17	PVCC1	–	+3.3V.
18	DSP1F1	O	DSP1 (IC103) control flag signal 1.
19	DSP1F2	O	DSP1 (IC103) control flag signal 2.
20	DSP_RES	O	DSP (IC103,107),AD/DA (IC205,206,209,212-215) reset control terminal.
21	DSP2F0	O	DSP2 (IC107) control flag signal 0.
22	DSP2F1	O	DSP2 (IC107) control flag signal 1.
23	DSP2F2	O	DSP2 (IC107) control flag signal 2.
24	MUTING	O	Power amplifier muting control terminal.
25	CTS	I	REMOTE RS-232C terminal. Control line.
26	TXD	O	REMOTE RS-232C terminal. Send data.
27	RXD	I	REMOTE RS-232C terminal. Receive data.
28	CHECK_LED	O	DSP operation check LED terminal.
29	N.C.	–	Not used.
30	CTRLS	O	Control-S command output terminal.
31-33	CTRLS_SEL0-3	O	Control-S output channel selection.
34	LCK_LED	O	LED driver. (IC301-304,401,402) Serial data latch signal.
35,36	N.C.	–	Not used.
37	TUN1SEL	O	MIC1/WL1 input selection terminal. L:MIC1 selection. H:WL1 selection.
38	TUN2SEL	O	MIC2/WL2 input selection terminal. L:MIC2 selection. H:WL2 selection.
39	LCK	O	Peripheral control serial data latch signal.
40-43	SEL0-3	O	Peripheral control serial data send device selection terminal.
44-46	ASEL0-2	O	VR/SW selection terminal of VR/SW detecting A/D converter.
47	LED_OE	O	LED and parallel output enable terminal.
48	VSS	–	GND.
49	D0	I/O	Data bus 0.
50	PVCC1	–	+3.3V.
51-57	D1-7	I/O	Data bus 1 to 7.
58	CTRLDATA	O	Peripheral control synchronous serial data output terminal.
59	FAN	O	Fan motor number of rotations control terminal. L: High speed. H: Low speed.
60	N.C.	–	Not used.
61	CTRLCK	O	Peripheral control serial signal clock terminal.
62	VSS	–	GND
63	PJCTS	I	PROJECTOR CONTROL RS-232C terminal. Control line.
64	SDA	I/O	EEPROM data transfer I2C bus data terminal.
65	SCL	O	EEPROM data transfer I2C bus clock terminal.
66	PJRXD	I	PROJECTOR CONTROL RS-232C terminal. Receive data.
67,68	N.C.	–	Not used.
69	PJTXD	O	PROJECTOR CONTROL RS-232C terminal. Send data.
70	PJRTS	O	PROJECTOR CONTROL RS-232C terminal. Control line.

Pin No.	Pin name	I/O	Function
71	RAMCS	O	RAM (IC101,102) chip select terminal.
72	DSP2CS	O	DSP2 (IC107) chip select terminal.
73	DSP1CS	O	DSP1 (IC103) chip select terminal.
74	PFI2	I	PFI check terminal.
75	WDTOVF	–	Not used.
76	PLLVCC	–	+3.3V.
77	PLLCAP	–	The terminal to which external PLL capacitor is going to be connected.
78	PLLVSS	–	GND.
79	RES	I	Reset terminal.
80	PFI	I	Power failure detection terminal.
81	STBY	I	Fixed to high (+3.3V).
82	FEW	I	Fixed to high (+3.3V).
83	XTAL	I	Clock (15MHz) input terminal.
84	VCC	–	+3.3V.
85	EXTAL	–	Not used.
86	VSS	–	GND.
87	OCS1	–	Fixed to high (+3.3V).
88	OCS2	–	Not used.
89	PVCC1	–	+3.3V.
90	PF7	I	Fixed to low (GND).
91	VSS	–	GND
92	AS	–	Not used.
93	RD	O	Memory read terminal.
94	WR	O	Memory write terminal.
95	LWR	–	Not used.
96	WAIT	I	Wait request terminal during DSP data write.
97	BACK	O	DSP bus right request acknowledge terminal.
98	BREQ	I	DSP bus right request terminal.
99-100	N.C.	–	Not used.
101	AVCC	–	+5V.
102	VREF	I	A/D converter reference voltage terminal. Fixed to +5V.
103-106	FRAD0-3	I	A/D converter input terminal for front panel VR and SW detection.
107-110	PIAD0-3	I	A/D converter input terminal for parallel input detection.
111	TH1	I	A/D converter input terminal for power amplifier CH1 temperature detection.
112	MICSW_A	I	A/D converter input terminal for MIC1-3 back panel SW ON/OFF detection.
113	MICSW_B	I	A/D converter input terminal for MIC4-6 back panel SW ON/OFF detection.
114	TH2	I	A/D converter input terminal for power amplifier CH2 temperature detection.
115	LED1	I	Wireless tuner-1 RF LED detection terminal.
116	LED2	I	Wireless tuner-2 RF LED detection terminal.
117	HMUTING	I	Power amplifier IC (IC003) HMUTING detection terminal.
118	DCPT	I	Power amplifier muting relay ON/OFF detection terminal.
119	AVSS	–	GND.
120	DSPPWR	I	DSP reset release check terminal.
121	DREQ	I	DMA data transfer start terminal between DSP-CPU.
122	CTRLS_SC	O	Control-S subcarrier output terminal. (40 kHz)
123	P73	I	Fixed to low (GND).
124	LINEMUTE	O	LINE OUT/REC OUT muting terminal.
125	AVSEL	O	LINE4 AUDIO SELECTOR IC (IC502, IC504) serial data enable terminal.
126	USBRXD	I	USB receive data.
127	USBTXD	O	USB send data.
128	MD0	–	Fixed to low (GND).

SECTION 5 EXPLODED VIEW

【使用上の注意】

- -XX, -Xは標準化部品のため、セットについている部品と異なる場合があります。
- *印の部品は常時在庫しておりません。

Note:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

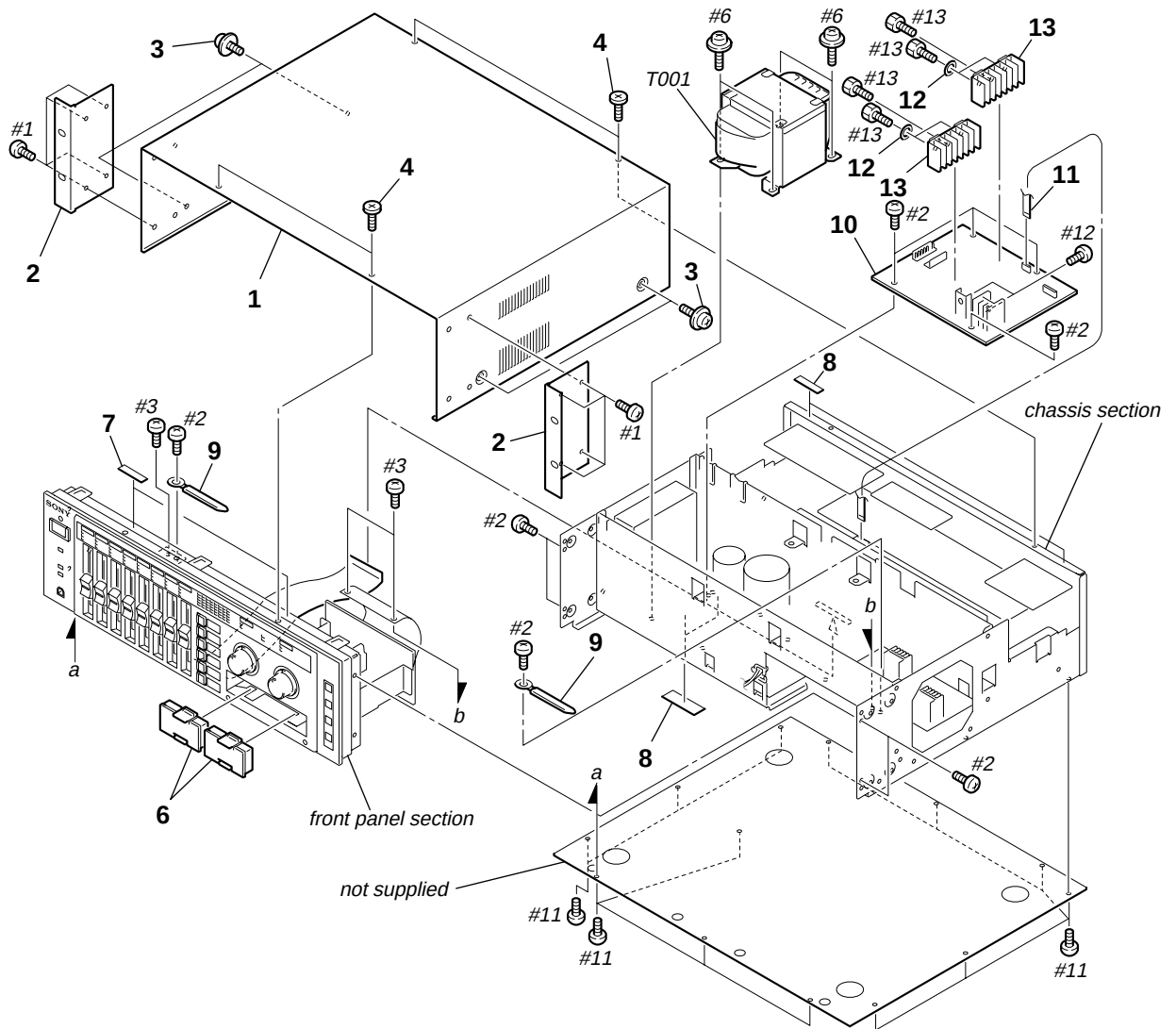
- 分解図中の機構部品で、図面番号のない部品は供給しません。
- ねじ一覧表と付属梱包部は、部品表の最後にあります。

Δ 印の部品、または Δ 印付の点線で囲まれた部品は、安全性を維持するために、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下さい。

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

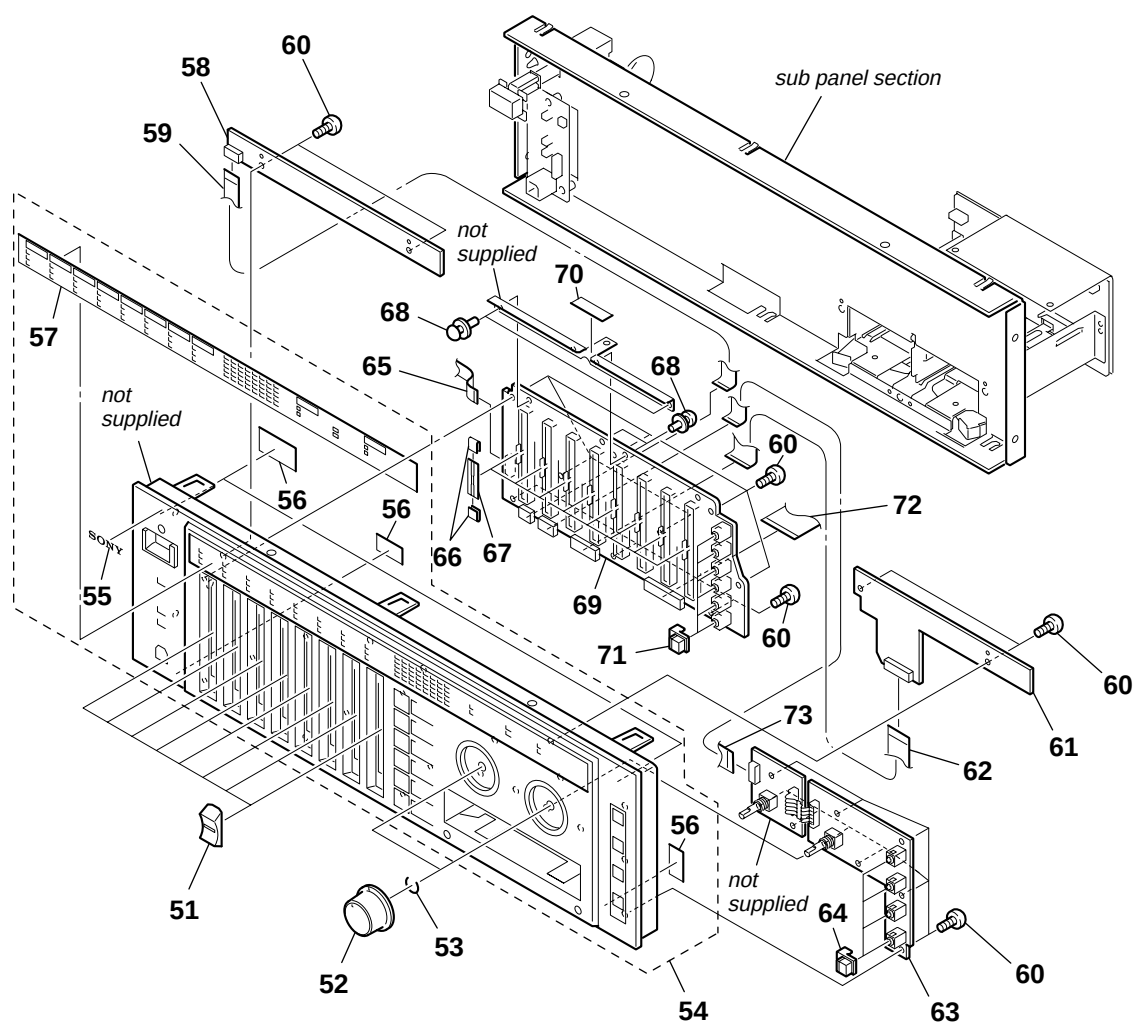
以阴影和 Δ 标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

5-1. UPPER CASE



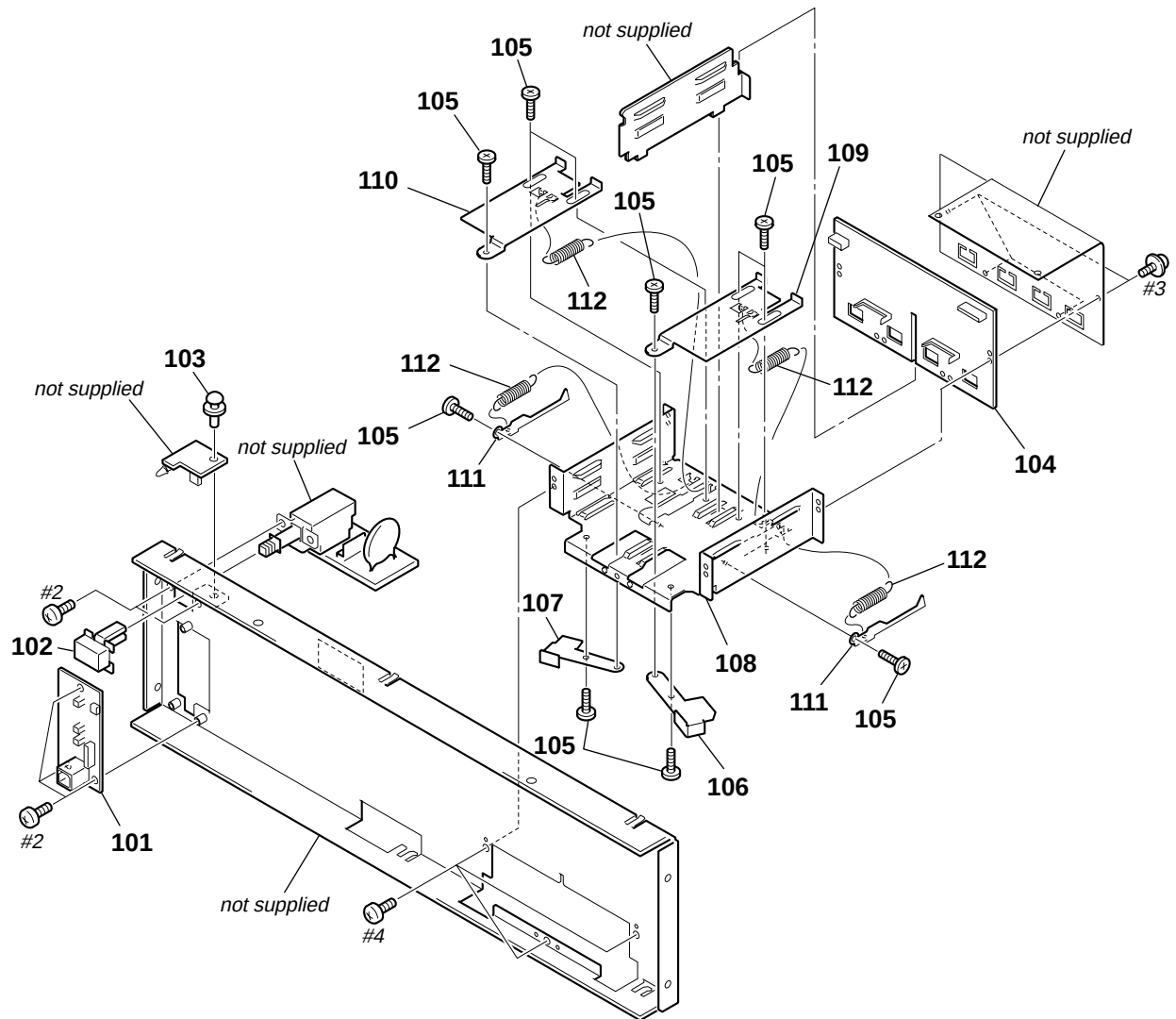
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
* 1	2-344-813-21	CASE, UPPER		* 10	A-4591-395-A	PA BOARD, COMPLETE	
* 2	2-344-327-21	BRACKET (3U), RACK MOUNT		11	1-757-817-11	WIRE (FLAT TYPE) (5 CORE)	
3	3-704-366-01	SCREW (CASE) (M3X8)		12	4-812-554-01	WASHER	
4	2-338-688-01	SCREW, STEP TAPPING		* 13	2-347-537-01	HEAT SINK	
* 6	2-545-750-01	LID (BLIND)		Δ T001	1-437-766-11	TRANSFORMER, POWER (J)	
* 7	4-065-899-21	GASKET, EMI		Δ T001	1-437-767-11	TRANSFORMER, POWER (CH)	
8	3-896-686-01	CUSHION		Δ T001	1-437-769-11	TRANSFORMER, POWER (US,CND)	
* 9	3-703-150-11	CLAMP		Δ T001	1-437-770-11	TRANSFORMER, POWER (AEP)	

5-2. FRONT PANEL SECTION



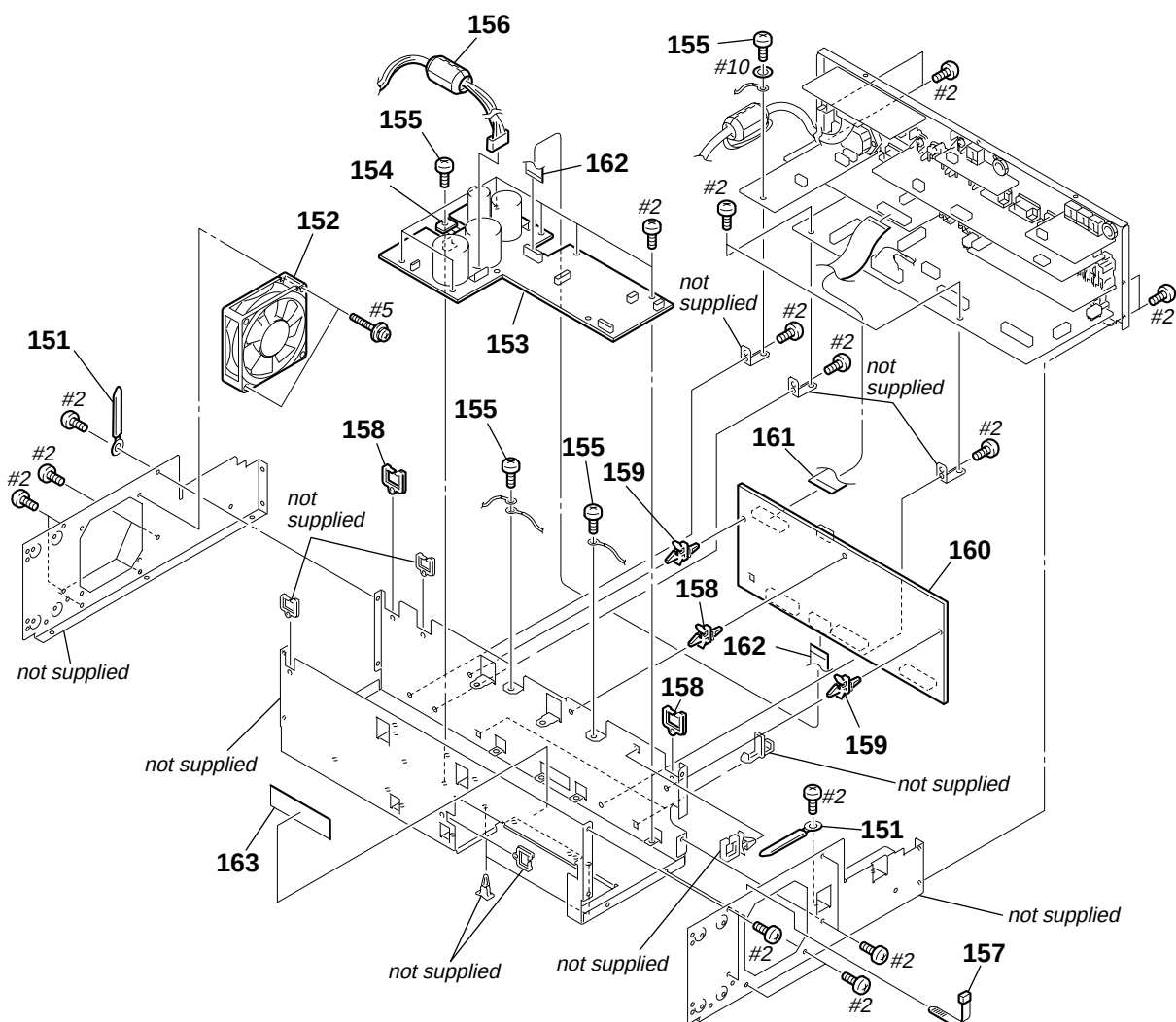
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	2-347-528-01	KEY, FADER		* 63	A-4591-418-A	MB BOARD, COMPLETE	
52	2-346-609-11	KNOB (REC)		64	3-624-750-01	KEYTOP(B)	
53	3-354-981-01	SPRING (SUS), RING		65	1-769-940-11	WIRE (FLAT TYPE) (11 CORE)	
54	A-4587-918-A	PANEL ASSY, FRONT		* 66	2-347-587-01	SPACER	
55	4-942-568-41	EMBLEM (NO.5), SONY		* 67	2-347-586-01	SPRING	
56	3-888-456-01	SPACER		* 68	3-531-576-51	RIVET	
* 57	2-347-565-01	PLATE, ORNAMENT		* 69	A-4591-412-A	FADER BOARD, COMPLETE	
* 58	A-4591-410-A	DISPLAY BOARD, COMPLETE		70	3-896-686-01	CUSHION	
59	1-769-911-11	WIRE (FLAT TYPE) (9 CORE)		71	3-624-749-01	KEYTOP(A)	
60	4-951-620-01	SCREW (2.6X8), +BVTP		72	1-773-189-11	WIRE (FLAT TYPE) (23 CORE)	
* 61	A-4591-423-A	METER BOARD, COMPLETE		73	1-765-327-11	WIRE (FLAT TYPE) (11 CORE)	
62	1-773-056-11	WIRE (FLAT TYPE) (17 CORE)					

5-3. TUNER SLOT SECTION



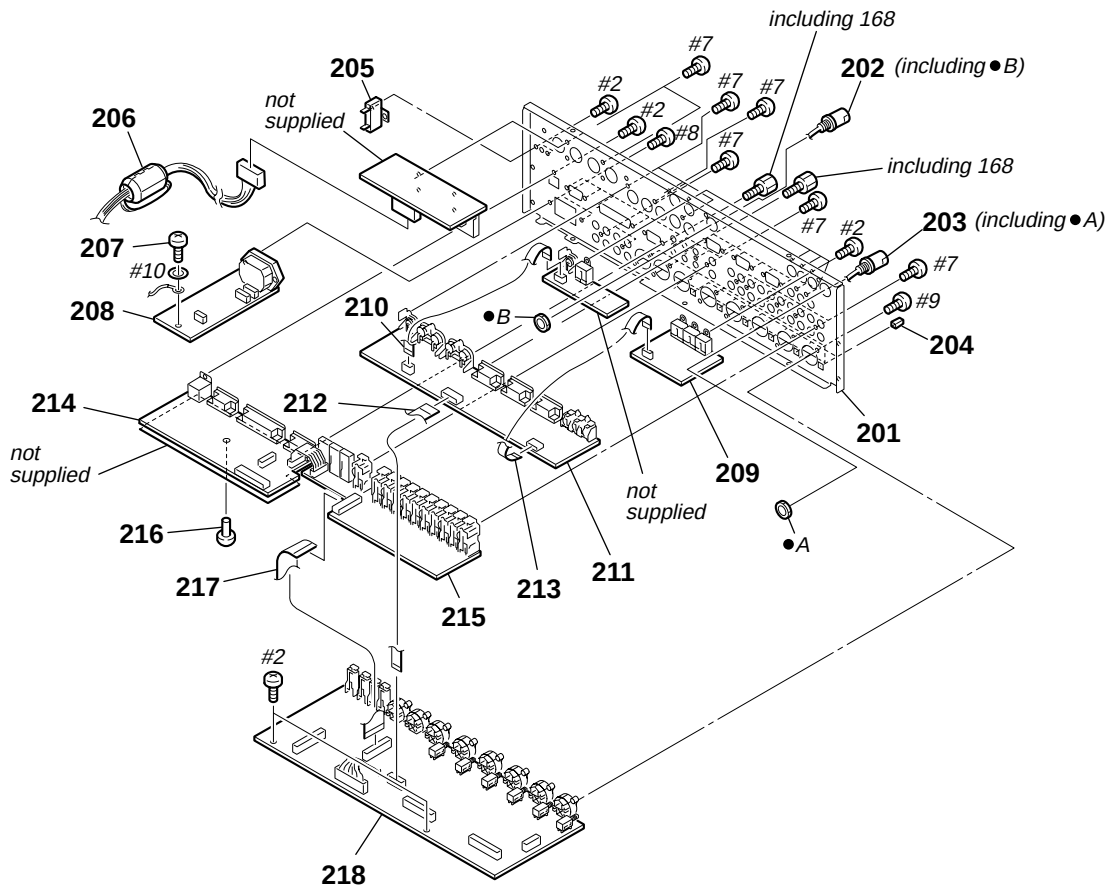
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
* 101	A-4591-416-A	USB BOARD, COMPLETE		* 107	2-347-569-11	BRACKET, EJECT	
102	2-335-924-31	BUTTON		* 108	2-347-566-01	HOLDER (A), TUNER	
103	3-531-576-21	RIVET		* 109	2-347-567-01	BRACKET, SLIDE	
* 104	A-4591-419-A	TUNER BOARD, COMPLETE		* 110	2-347-567-11	BRACKET, SLIDE	
105	2-236-956-00	SCREW, STEP		* 111	2-347-568-01	BRACKET, STOPPER	
* 106	2-347-569-01	BRACKET, EJECT		112	3-642-491-00	SPRING, TENSION	

5-4. CENTER BLOCK SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
* 151	3-703-150-11	CLAMP		* 158	4-708-065-01	HOLDER (EHS-18), EDGE	
152	1-763-724-11	FAN, DC (92 SQUARE)		159	4-038-571-02	FG SPACER	
* 153	A-4591-403-A	PS BOARD, COMPLETE		* 160	A-4591-407-A	DSP BOARD, COMPLETE	
154	8-719-033-58	DIODE RBV-1506		161	1-773-314-11	WIRE (FLAT TYPE) (31 CORE)	
155	3-703-249-21	SCREW, S TIGHT, +PTTWH (M3X8)		162	1-769-938-11	WIRE (FLAT TYPE) (11 CORE)	
156	1-543-798-11	FILTER, CLAMP (FERRITE CORE)		* 163	3-703-044-26	LABEL, CAUTION (US,CND)	
157	3-655-653-01	BAND (TAITON), BINDING					

5-5. BACK PANEL SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
* 201	2-347-526-01	PANEL, BACK		* 209	A-4591-401-A	S VIDEO BOARD, COMPLETE	
202	1-824-351-11	CABLE, COAXIAL (BNC-MINI PIN)		210	1-769-841-11	WIRE (FLAT TYPE) (5 CORE)	
203	1-824-351-21	CABLE, COAXIAL (BNC-MINI PIN)		* 211	A-4591-399-A	VIDEO BOARD, COMPLETE	
204	2-380-412-12	KNOB (SMALL), PUSH BUTTON		212	1-790-324-11	WIRE (FLAT TYPE) (11 CORE)	
△ 205	1-576-408-11	BREAKER, CIRCUIT (AEP,CH)		213	1-824-258-11	WIRE, FLAT TYPE	
△ 205	1-576-642-11	BREAKER, CIRCUIT (US,CND)		* 214	A-4591-411-A	REMOTE BOARD, COMPLETE	
△ 205	1-576-651-11	BREAKER, CIRCUIT (J)		* 215	A-4591-406-A	STIN BOARD, COMPLETE	
206	1-500-497-11	FILTER, CLAMP (FERRITE CORE)		216	3-531-576-21	RIVET	
207	3-703-249-21	SCREW, S TIGHT, +PTTWH (M3X8)		217	1-773-004-11	WIRE (FLAT TYPE) (15 CORE)	
* 208	A-4591-413-A	AC BOARD, COMPLETE		* 218	A-4591-397-A	AUDIO BOARD, COMPLETE	

△印の部品、または △印付きの点線で囲まれた部品は、安全性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下さい。

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和 △ 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。

SECTION 6 ELECTRICAL PARTS LIST

AC**AUDIO**

【電気部品表】

【使用上の注意】

- ここに記載されている部品は、補修用部品であるため、回路図及びセットに付いている部品と異なる場合があります。
 - XX, -Xは標準化部品のため、セットに付いている部品と異なる場合があります。
 - *印の部品は常備在庫していません。
 - コンデンサの単位でuFはμFを示します。
 - 抵抗の単位Ωは省略してあります。
- METAL：金属被膜抵抗。
METAL OXIDE：酸化金属被膜抵抗。

- インダクタの単位でuHはμHを示します。
- 半導体の名称でuA..., uPA..., uPB..., uPC..., uPD...等はそれぞれμA..., μPA..., μPB..., μPC..., μPD...を示します。

お願い
図面番号で部品を指定するときは基板名又はブロックを併せて指定してください。

△印の部品、または△印付の点線で囲まれた部品は、安全性を維持するために、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下さい。

Note:

When indicating parts by reference number, please include the board name.

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和△标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
uF: μF
- RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- COILS
uH: μH
- SEMICONDUCTORS
In each case, u: μ, for example:
uA...: μA..., uPA...: μPA...,
uPB...: μPB..., uPC...: μPC...,
uPD...: μPD...

Ref. No.	Part No.	Description	Remarks
*	A-4591-413-A	AC BOARD, COMPLETE *****	
		< CAPACITOR >	
△ C010	1-104-705-11	MYLAR 0.1uF 20.00% 250V	
△ C011	1-104-705-11	MYLAR 0.1uF 20.00% 250V	
△ C012	1-113-907-51	CERAMIC 0.0022uF 99% 250V	
△ C013	1-113-907-51	CERAMIC 0.0022uF 99% 250V	
△ C014	1-113-907-51	CERAMIC 0.0022uF 99% 250V	
		< CONNECTOR >	
△ CN013	1-251-234-11	INLET, AC	
* CN014	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P	
		< PIN >	
EP011	1-537-770-21	TERMINAL BOARD, GROUND	
		< COIL >	
△ L010	1-424-860-11	INDUCTOR 10uH	
△ L011	1-424-860-11	INDUCTOR 10uH	
		< LINE FILTER >	
△ LF010	1-424-648-11	TRANSFORMER, LINE FILTER (LFT)	

*	A-4591-397-A	AUDIO BOARD, COMPLETE *****	
		< CAPACITOR >	
C201	1-128-401-11	ELECT CHIP 100uF 20.00% 25V	
C202	1-126-197-11	ELECT CHIP 10uF 20.00% 50V	
C203	1-126-602-11	ELECT CHIP 3.3uF 20% 50V	
C204	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C205	1-126-197-11	ELECT CHIP 10uF 20.00% 50V	

Ref. No.	Part No.	Description	Remarks
C206	1-110-530-11	ELECT CHIP 1000uF 20.00% 6.3V	
C207	1-164-816-11	CERAMIC CHIP 220PF 2.00% 50V	
C208	1-164-816-11	CERAMIC CHIP 220PF 2.00% 50V	
C209	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C210	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C211	1-128-401-11	ELECT CHIP 100uF 20.00% 25V	
C212	1-126-602-11	ELECT CHIP 3.3uF 20% 50V	
C213	1-126-197-11	ELECT CHIP 10uF 20.00% 50V	
C214	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C215	1-126-197-11	ELECT CHIP 10uF 20.00% 50V	
C216	1-110-530-11	ELECT CHIP 1000uF 20.00% 6.3V	
C217	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C218	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C219	1-164-816-11	CERAMIC CHIP 220PF 2.00% 50V	
C220	1-164-816-11	CERAMIC CHIP 220PF 2.00% 50V	
C221	1-128-401-11	ELECT CHIP 100uF 20.00% 25V	
C222	1-126-602-11	ELECT CHIP 3.3uF 20% 50V	
C223	1-126-197-11	ELECT CHIP 10uF 20.00% 50V	
C224	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C225	1-126-197-11	ELECT CHIP 10uF 20.00% 50V	
C226	1-110-530-11	ELECT CHIP 1000uF 20.00% 6.3V	
C227	1-164-816-11	CERAMIC CHIP 220PF 2.00% 50V	
C228	1-164-816-11	CERAMIC CHIP 220PF 2.00% 50V	
C229	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C230	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C231	1-128-401-11	ELECT CHIP 100uF 20.00% 25V	
C232	1-126-197-11	ELECT CHIP 10uF 20.00% 50V	
C233	1-126-602-11	ELECT CHIP 3.3uF 20% 50V	
C234	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C235	1-126-197-11	ELECT CHIP 10uF 20.00% 50V	
C236	1-110-530-11	ELECT CHIP 1000uF 20.00% 6.3V	
C237	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C238	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C239	1-164-816-11	CERAMIC CHIP 220PF 2.00% 50V	
C240	1-164-816-11	CERAMIC CHIP 220PF 2.00% 50V	

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C241	1-126-204-11	ELECT CHIP	47uF 20% 16V	C303	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C242	1-126-204-11	ELECT CHIP	47uF 20% 16V	C305	1-162-919-11	CERAMIC CHIP	22PF 5% 50V
C243	1-126-197-11	ELECT CHIP	10uF 20.00% 50V	C306	1-162-919-11	CERAMIC CHIP	22PF 5% 50V
C244	1-126-197-11	ELECT CHIP	10uF 20.00% 50V	C307	1-126-206-11	ELECT CHIP	100uF 20% 6.3V
C245	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V	C308	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C246	1-126-206-11	ELECT CHIP	100uF 20% 6.3V	C309	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C247	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V	C310	1-126-206-11	ELECT CHIP	100uF 20% 6.3V
C248	1-126-206-11	ELECT CHIP	100uF 20% 6.3V	C311	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C249	1-126-206-11	ELECT CHIP	100uF 20% 6.3V	C312	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C250	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V	C313	1-126-206-11	ELECT CHIP	100uF 20% 6.3V
C251	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V	C314	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C253	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V	C315	1-126-204-11	ELECT CHIP	47uF 20% 16V
C254	1-126-206-11	ELECT CHIP	100uF 20% 6.3V	C316	1-126-204-11	ELECT CHIP	47uF 20% 16V
C255	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V	C317	1-126-206-11	ELECT CHIP	100uF 20% 6.3V
C256	1-126-206-11	ELECT CHIP	100uF 20% 6.3V	C318	1-126-206-11	ELECT CHIP	100uF 20% 6.3V
C257	1-126-206-11	ELECT CHIP	100uF 20% 6.3V	C319	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C258	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V	C320	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C259	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V	C322	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C261	1-128-401-11	ELECT CHIP	100uF 20.00% 25V	C323	1-126-206-11	ELECT CHIP	100uF 20% 6.3V
C262	1-126-197-11	ELECT CHIP	10uF 20.00% 50V	C324	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C263	1-126-204-11	ELECT CHIP	47uF 20% 16V	C325	1-126-204-11	ELECT CHIP	47uF 20% 16V
C264	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C326	1-126-204-11	ELECT CHIP	47uF 20% 16V
C265	1-126-197-11	ELECT CHIP	10uF 20.00% 50V	C327	1-126-206-11	ELECT CHIP	100uF 20% 6.3V
C266	1-110-530-11	ELECT CHIP	1000uF 20.00% 6.3V	C328	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C267	1-164-816-11	CERAMIC CHIP	220PF 2.00% 50V	C329	1-126-206-11	ELECT CHIP	100uF 20% 6.3V
C268	1-164-816-11	CERAMIC CHIP	220PF 2.00% 50V	C330	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C269	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V	C332	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C270	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V	C333	1-126-206-11	ELECT CHIP	100uF 20% 6.3V
C271	1-128-401-11	ELECT CHIP	100uF 20.00% 25V	C334	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C272	1-126-197-11	ELECT CHIP	10uF 20.00% 50V	C335	1-126-204-11	ELECT CHIP	47uF 20% 16V
C273	1-126-197-11	ELECT CHIP	10uF 20.00% 50V	C336	1-126-204-11	ELECT CHIP	47uF 20% 16V
C274	1-128-401-11	ELECT CHIP	100uF 20.00% 25V	C337	1-126-206-11	ELECT CHIP	100uF 20% 6.3V
C275	1-162-915-11	CERAMIC CHIP	10PF 0.5PF 50V	C338	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C276	1-126-204-11	ELECT CHIP	47uF 20% 16V	C339	1-126-206-11	ELECT CHIP	100uF 20% 6.3V
C277	1-162-915-11	CERAMIC CHIP	10PF 0.5PF 50V	C340	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C278	1-126-602-11	ELECT CHIP	3.3uF 20% 50V	C342	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C279	1-126-197-11	ELECT CHIP	10uF 20.00% 50V	C343	1-126-206-11	ELECT CHIP	100uF 20% 6.3V
C280	1-128-401-11	ELECT CHIP	100uF 20.00% 25V	C344	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C281	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C345	1-126-204-11	ELECT CHIP	47uF 20% 16V
C282	1-126-197-11	ELECT CHIP	10uF 20.00% 50V	C346	1-126-204-11	ELECT CHIP	47uF 20% 16V
C283	1-126-204-11	ELECT CHIP	47uF 20% 16V	C347	1-126-206-11	ELECT CHIP	100uF 20% 6.3V
C284	1-110-530-11	ELECT CHIP	1000uF 20.00% 6.3V	C348	1-126-206-11	ELECT CHIP	100uF 20% 6.3V
C285	1-164-816-11	CERAMIC CHIP	220PF 2.00% 50V	C349	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C286	1-164-816-11	CERAMIC CHIP	220PF 2.00% 50V	C350	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C287	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V	C351	1-216-864-11	METAL CHIP	0 5% 1/16W
C288	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V	C352	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C289	1-126-197-11	ELECT CHIP	10uF 20.00% 50V	C353	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C290	1-126-197-11	ELECT CHIP	10uF 20.00% 50V	C354	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C291	1-128-401-11	ELECT CHIP	100uF 20.00% 25V	C355	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C292	1-126-204-11	ELECT CHIP	47uF 20% 16V	C356	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V
C293	1-162-915-11	CERAMIC CHIP	10PF 0.5PF 50V	C357	1-126-206-11	ELECT CHIP	100uF 20% 6.3V
C294	1-162-915-11	CERAMIC CHIP	10PF 0.5PF 50V	C358	1-162-919-11	CERAMIC CHIP	22PF 5% 50V
C295	1-126-602-11	ELECT CHIP	3.3uF 20% 50V	C359	1-162-928-11	CERAMIC CHIP	120PF 5% 50V
C296	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V	C360	1-128-391-11	ELECT CHIP	330uF 20.00% 6.3V
C297	1-126-206-11	ELECT CHIP	100uF 20% 6.3V	C361	1-164-315-11	CERAMIC CHIP	470PF 5.00% 50V
C298	1-126-206-11	ELECT CHIP	100uF 20% 6.3V	C362	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C299	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V	C363	1-162-928-11	CERAMIC CHIP	120PF 5% 50V
C300	1-126-206-11	ELECT CHIP	100uF 20% 6.3V	C364	1-128-391-11	ELECT CHIP	330uF 20.00% 6.3V
C301	1-126-206-11	ELECT CHIP	100uF 20% 6.3V	C365	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C302	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V	C366	1-162-915-11	CERAMIC CHIP	10PF 0.5PF 50V

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Ref. No.	Part No.	Description	Remarks		
C367	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C368	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C369	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C370	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C371	1-128-391-11	ELECT CHIP	330uF	20.00%	6.3V
C372	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C373	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C374	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C375	1-128-391-11	ELECT CHIP	330uF	20.00%	6.3V
C376	1-124-779-00	ELECT CHIP	10uF	20%	16V
C377	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C378	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C379	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C380	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C381	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C382	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C383	1-124-779-00	ELECT CHIP	10uF	20%	16V
C384	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C385	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C386	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C387	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C388	1-124-779-00	ELECT CHIP	10uF	20%	16V
C389	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C390	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C391	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C392	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C393	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C394	1-124-779-00	ELECT CHIP	10uF	20%	16V
C395	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C396	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C397	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C398	1-124-779-00	ELECT CHIP	10uF	20%	16V
C399	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C400	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C401	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C402	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C403	1-124-779-00	ELECT CHIP	10uF	20%	16V
C404	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C405	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C406	1-128-555-91	ELECT	470uF	20.00%	63V
C407	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C408	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C409	1-124-779-00	ELECT CHIP	10uF	20%	16V
C410	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C411	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C412	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C413	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C414	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C415	1-124-779-00	ELECT CHIP	10uF	20%	16V
C416	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C417	1-135-346-21	ELECT CHIP	39uF	20%	16V
C418	1-128-401-11	ELECT CHIP	100uF	20.00%	25V
C419	1-128-401-11	ELECT CHIP	100uF	20.00%	25V
C420	1-128-401-11	ELECT CHIP	100uF	20.00%	25V
C421	1-128-401-11	ELECT CHIP	100uF	20.00%	25V
C422	1-128-401-11	ELECT CHIP	100uF	20.00%	25V
C423	1-128-401-11	ELECT CHIP	100uF	20.00%	25V
C424	1-128-401-11	ELECT CHIP	100uF	20.00%	25V
C425	1-128-401-11	ELECT CHIP	100uF	20.00%	25V
C426	1-128-401-11	ELECT CHIP	100uF	20.00%	25V

Ref. No.	Part No.	Description	Remarks		
C427	1-128-401-11	ELECT CHIP	100uF	20.00%	25V
C428	1-128-401-11	ELECT CHIP	100uF	20.00%	25V
C429	1-128-401-11	ELECT CHIP	100uF	20.00%	25V
C430	1-135-346-21	ELECT CHIP	39uF	20%	16V
C431	1-128-401-11	ELECT CHIP	100uF	20.00%	25V
C432	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C433	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C434	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C435	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C436	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C437	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C438	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C439	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C441	1-164-816-11	CERAMIC CHIP	220PF	2.00%	50V
C442	1-164-816-11	CERAMIC CHIP	220PF	2.00%	50V
C443	1-164-816-11	CERAMIC CHIP	220PF	2.00%	50V
C444	1-164-816-11	CERAMIC CHIP	220PF	2.00%	50V
C445	1-164-816-11	CERAMIC CHIP	220PF	2.00%	50V
C446	1-164-816-11	CERAMIC CHIP	220PF	2.00%	50V
C447	1-164-816-11	CERAMIC CHIP	220PF	2.00%	50V
C448	1-164-816-11	CERAMIC CHIP	220PF	2.00%	50V
C449	1-164-816-11	CERAMIC CHIP	220PF	2.00%	50V
C450	1-164-816-11	CERAMIC CHIP	220PF	2.00%	50V
C451	1-164-816-11	CERAMIC CHIP	220PF	2.00%	50V
C452	1-164-816-11	CERAMIC CHIP	220PF	2.00%	50V
C453	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C454	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C455	1-233-287-21	FILTER, EMI (SMD)			
C456	1-233-287-21	FILTER, EMI (SMD)			
C457	1-233-287-21	FILTER, EMI (SMD)			
C458	1-233-287-21	FILTER, EMI (SMD)			
C459	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C460	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
< CONNECTOR >					
CN201	1-794-099-11	CONNECTOR, ROUND TYPE (MIC INPUT 1)			
CN202	1-794-099-11	CONNECTOR, ROUND TYPE (MIC INPUT 2)			
CN203	1-794-099-11	CONNECTOR, ROUND TYPE (MIC INPUT 3)			
CN204	1-794-099-11	CONNECTOR, ROUND TYPE (MIC INPUT 4)			
CN205	1-794-099-11	CONNECTOR, ROUND TYPE (MIC5/LINE1 IN)			
CN206	1-794-099-11	CONNECTOR, ROUND TYPE (MIC6/LINE2 IN)			
CN207	1-569-338-11	CONNECTOR, BOARD TO BOARD 19P			
CN208	1-784-776-11	CONNECTOR, FFC 15P			
CN209	1-569-338-11	CONNECTOR, BOARD TO BOARD 19P			
CN210	1-774-766-11	CONNECTOR, FFC/FPC 11P			
CN211	1-794-097-11	CONNECTOR, ROUND TYPE (LINE OUTPUT 1)			
CN212	1-794-097-11	CONNECTOR, ROUND TYPE (LINE OUTPUT 2)			
CN213	1-691-771-11	PLUG (MICRO CONNECTOR) 9P			
CN214	1-691-770-11	PLUG (MICRO CONNECTOR) 8P			
CN215	1-691-769-11	PLUG (MICRO CONNECTOR) 7P			
< DIODE >					
D201	8-719-422-46	DIODE MA8056-TX			
D202	8-719-422-46	DIODE MA8056-TX			
D203	8-719-422-46	DIODE MA8056-TX			
D204	8-719-422-46	DIODE MA8056-TX			
D205	8-719-422-46	DIODE MA8056-TX			

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
D206	8-719-422-46	DIODE MA8056-TX		IC216	8-759-524-23	IC TC74VHC238FT(EL)	
D207	8-719-422-46	DIODE MA8056-TX		IC217	6-700-915-01	IC TC74VHCT04AFT(EL)	
D208	8-719-422-46	DIODE MA8056-TX		IC218	8-759-524-23	IC TC74VHC238FT(EL)	
D209	8-719-941-09	DIODE DAP202UT106		IC219	8-759-491-47	IC TC74VHCT08AFT(EL)	
D210	8-719-941-09	DIODE DAP202UT106		IC220	8-759-711-85	IC NJM4580E-D-TE2	
D211	8-719-941-09	DIODE DAP202UT106		IC221	8-759-711-85	IC NJM4580E-D-TE2	
D212	8-719-941-09	DIODE DAP202UT106		IC222	8-759-711-85	IC NJM4580E-D-TE2	
D213	8-719-941-09	DIODE DAP202UT106		IC223	8-759-711-85	IC NJM4580E-D-TE2	
D214	8-719-941-09	DIODE DAP202UT106		IC224	8-759-711-85	IC NJM4580E-D-TE2	
D215	8-719-988-61	DIODE 1SS355TE-17		IC225	8-759-711-85	IC NJM4580E-D-TE2	
D216	8-719-988-61	DIODE 1SS355TE-17		IC226	8-759-711-85	IC NJM4580E-D-TE2	
D217	8-719-941-09	DIODE DAP202UT106		IC227	8-759-711-85	IC NJM4580E-D-TE2	
D218	8-719-941-09	DIODE DAP202UT106		IC267	8-759-662-86	IC NJM79M05DL1A(TE2)	
D219	8-719-941-09	DIODE DAP202UT106		IC268	8-759-392-01	IC TC7SH86FU-TE85R	
D220	8-719-941-09	DIODE DAP202UT106		< JACK >			
D221	8-719-941-09	DIODE DAP202UT106		J201	1-784-017-11	JACK, PIN 4P(LINE INP 3,4,5,6)	
D222	8-719-941-09	DIODE DAP202UT106		J202	1-784-017-11	JACK, PIN 4P(LINE IN 7,8/REC OUT 1,2)	
D223	8-719-941-09	DIODE DAP202UT106		< COIL >			
D224	8-719-941-09	DIODE DAP202UT106		L201	1-412-006-31	INDUCTOR 10uH	
D225	8-719-941-09	DIODE DAP202UT106		L202	1-412-006-31	INDUCTOR 10uH	
D226	8-719-941-09	DIODE DAP202UT106		L203	1-412-006-31	INDUCTOR 10uH	
D227	8-719-941-09	DIODE DAP202UT106		L204	1-412-006-31	INDUCTOR 10uH	
D229	8-719-988-61	DIODE 1SS355TE-17		L205	1-412-006-31	INDUCTOR 10uH	
D230	8-719-988-61	DIODE 1SS355TE-17		L206	1-412-006-31	INDUCTOR 10uH	
D231	8-719-988-61	DIODE 1SS355TE-17		L207	1-412-006-31	INDUCTOR 10uH	
D232	8-719-941-09	DIODE DAP202UT106		L208	1-412-006-31	INDUCTOR 10uH	
D234	8-719-422-46	DIODE MA8056-TX		L209	1-412-031-11	INDUCTOR CHIP 47uH	
D235	8-719-422-46	DIODE MA8056-TX		L210	1-412-031-11	INDUCTOR CHIP 47uH	
D236	8-719-422-46	DIODE MA8056-TX		L211	1-412-006-31	INDUCTOR 10uH	
D237	8-719-422-46	DIODE MA8056-TX		L212	1-412-006-31	INDUCTOR 10uH	
D238	8-719-941-09	DIODE DAP202UT106		L213	1-412-006-31	INDUCTOR 10uH	
D240	8-719-941-86	DIODE DAN202UT106		L214	1-412-006-31	INDUCTOR 10uH	
D241	8-719-941-09	DIODE DAP202UT106		L215	1-412-031-11	INDUCTOR CHIP 47uH	
D242	8-719-941-86	DIODE DAN202UT106		L216	1-412-031-11	INDUCTOR CHIP 47uH	
D243	8-719-941-09	DIODE DAP202UT106		L217	1-412-031-11	INDUCTOR CHIP 47uH	
D244	8-719-941-86	DIODE DAN202UT106		L218	1-412-031-11	INDUCTOR CHIP 47uH	
D245	8-719-941-09	DIODE DAP202UT106		L219	1-412-031-11	INDUCTOR CHIP 47uH	
D246	8-719-941-86	DIODE DAN202UT106		L220	1-412-031-11	INDUCTOR CHIP 47uH	
D247	8-719-941-09	DIODE DAP202UT106		L221	1-412-031-11	INDUCTOR CHIP 47uH	
< FERRITE BEAD >				L222	1-412-031-11	INDUCTOR CHIP 47uH	
FB201	1-400-040-22	FERRITE 0UH		L223	1-412-031-11	INDUCTOR CHIP 47uH	
FB202	1-400-040-22	FERRITE 0UH		L224	1-410-993-11	INDUCTOR CHIP 1uH	
< IC >				L225	1-410-993-11	INDUCTOR CHIP 1uH	
IC201	8-759-711-85	IC NJM4580E-D-TE2		L226	1-410-993-11	INDUCTOR CHIP 1uH	
IC202	8-759-711-85	IC NJM4580E-D-TE2		L227	1-410-993-11	INDUCTOR CHIP 1uH	
IC203	8-759-523-02	IC TC74HC4053AFT(EL)		L228	1-410-993-11	INDUCTOR CHIP 1uH	
IC204	8-759-523-02	IC TC74HC4053AFT(EL)		L229	1-410-993-11	INDUCTOR CHIP 1uH	
IC205	8-759-579-68	IC AK4524-TP		L230	1-410-993-11	INDUCTOR CHIP 1uH	
IC206	8-759-579-68	IC AK4524-TP		L231	1-410-993-11	INDUCTOR CHIP 1uH	
IC207	8-759-711-85	IC NJM4580E-D-TE2		L232	1-410-993-11	INDUCTOR CHIP 1uH	
IC208	8-759-711-85	IC NJM4580E-D-TE2		L233	1-410-993-11	INDUCTOR CHIP 1uH	
IC209	8-759-579-68	IC AK4524-TP		L234	1-410-993-11	INDUCTOR CHIP 1uH	
IC210	8-759-530-30	IC TC74VHC04FT(EL)		L235	1-410-993-11	INDUCTOR CHIP 1uH	
IC211	8-759-530-31	IC TC74VHC4040FT(EL)		L236	1-412-529-15	INDUCTOR 22uH	
IC212	8-759-579-68	IC AK4524-TP					
IC213	8-759-579-68	IC AK4524-TP					
IC214	8-759-579-68	IC AK4524-TP					
IC215	8-759-579-68	IC AK4524-TP					

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Ref. No.	Part No.	Description				Remarks	Ref. No.	Part No.	Description				Remarks
< TRANSISTOR >							R236	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	
							R237	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
Q201	8-729-271-31	TRANSISTOR	2SC2713G-TE85L				R238	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
Q202	8-729-271-31	TRANSISTOR	2SC2713G-TE85L				R239	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
Q203	8-729-271-31	TRANSISTOR	2SC2713G-TE85L				R240	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
Q204	8-729-271-31	TRANSISTOR	2SC2713G-TE85L										
Q205	8-729-271-31	TRANSISTOR	2SC2713G-TE85L				R241	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
							R242	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
Q206	8-729-271-31	TRANSISTOR	2SC2713G-TE85L				R243	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	
Q207	8-729-271-31	TRANSISTOR	2SC2713G-TE85L				R244	1-216-797-11	METAL CHIP	10	5%	1/16W	
Q208	8-729-271-31	TRANSISTOR	2SC2713G-TE85L				R245	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	
Q209	8-729-271-31	TRANSISTOR	2SC2713G-TE85L										
Q210	8-729-271-31	TRANSISTOR	2SC2713G-TE85L				R246	1-216-797-11	METAL CHIP	10	5%	1/16W	
							R247	1-216-805-11	METAL CHIP	47	5%	1/16W	
Q211	8-729-271-31	TRANSISTOR	2SC2713G-TE85L				R248	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	
Q212	8-729-271-31	TRANSISTOR	2SC2713G-TE85L				R249	1-216-816-11	METAL CHIP	390	5%	1/16W	
Q213	8-729-202-38	TRANSISTOR	2SC3326N-TE85L-AB				R250	1-216-841-11	METAL CHIP	47K	5%	1/16W	
Q214	8-729-202-38	TRANSISTOR	2SC3326N-TE85L-AB										
Q215	8-729-202-38	TRANSISTOR	2SC3326N-TE85L-AB				R251	1-216-841-11	METAL CHIP	47K	5%	1/16W	
							R252	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	
Q216	8-729-202-38	TRANSISTOR	2SC3326N-TE85L-AB				R253	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	
Q217	8-729-202-38	TRANSISTOR	2SC3326N-TE85L-AB				R254	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	
Q218	8-729-202-38	TRANSISTOR	2SC3326N-TE85L-AB				R255	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
Q219	8-729-202-38	TRANSISTOR	2SC3326N-TE85L-AB										
Q220	8-729-202-38	TRANSISTOR	2SC3326N-TE85L-AB				R256	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
							R257	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
Q221	8-729-421-22	TRANSISTOR	UN2211-TX				R258	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
Q222	8-729-421-22	TRANSISTOR	UN2211-TX				R259	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
< RESISTOR >							R260	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
							R261	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	
R201	1-216-825-11	METAL CHIP	2.2K	5%	1/16W		R262	1-216-797-11	METAL CHIP	10	5%	1/16W	
R202	1-216-825-11	METAL CHIP	2.2K	5%	1/16W		R263	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	
R203	1-216-829-11	METAL CHIP	4.7K	5%	1/16W		R264	1-216-797-11	METAL CHIP	10	5%	1/16W	
R204	1-216-829-11	METAL CHIP	4.7K	5%	1/16W		R265	1-216-816-11	METAL CHIP	390	5%	1/16W	
R205	1-216-825-11	METAL CHIP	2.2K	5%	1/16W								
							R266	1-216-805-11	METAL CHIP	47	5%	1/16W	
R206	1-216-825-11	METAL CHIP	2.2K	5%	1/16W		R267	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	
R207	1-216-797-11	METAL CHIP	10	5%	1/16W		R268	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R208	1-216-826-11	METAL CHIP	2.7K	5%	1/16W		R269	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R209	1-216-827-11	METAL CHIP	3.3K	5%	1/16W		R270	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	
R210	1-216-797-11	METAL CHIP	10	5%	1/16W								
							R271	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	
R211	1-216-805-11	METAL CHIP	47	5%	1/16W		R272	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	
R212	1-216-826-11	METAL CHIP	2.7K	5%	1/16W		R273	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R213	1-216-816-11	METAL CHIP	390	5%	1/16W		R274	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R214	1-216-841-11	METAL CHIP	47K	5%	1/16W		R275	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R215	1-216-841-11	METAL CHIP	47K	5%	1/16W								
							R276	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R216	1-216-826-11	METAL CHIP	2.7K	5%	1/16W		R277	1-216-801-11	METAL CHIP	22	5%	1/16W	
R217	1-216-827-11	METAL CHIP	3.3K	5%	1/16W		R278	1-216-801-11	METAL CHIP	22	5%	1/16W	
R218	1-216-827-11	METAL CHIP	3.3K	5%	1/16W		R279	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
R219	1-216-829-11	METAL CHIP	4.7K	5%	1/16W		R280	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
R220	1-216-829-11	METAL CHIP	4.7K	5%	1/16W								
							R281	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	
R221	1-216-825-11	METAL CHIP	2.2K	5%	1/16W		R282	1-216-797-11	METAL CHIP	10	5%	1/16W	
R222	1-216-825-11	METAL CHIP	2.2K	5%	1/16W		R283	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	
R223	1-216-826-11	METAL CHIP	2.7K	5%	1/16W		R284	1-216-797-11	METAL CHIP	10	5%	1/16W	
R224	1-216-825-11	METAL CHIP	2.2K	5%	1/16W		R285	1-216-816-11	METAL CHIP	390	5%	1/16W	
R225	1-216-825-11	METAL CHIP	2.2K	5%	1/16W								
							R286	1-216-805-11	METAL CHIP	47	5%	1/16W	
R226	1-216-797-11	METAL CHIP	10	5%	1/16W		R287	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	
R227	1-216-816-11	METAL CHIP	390	5%	1/16W		R288	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R228	1-216-827-11	METAL CHIP	3.3K	5%	1/16W		R289	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R229	1-216-797-11	METAL CHIP	10	5%	1/16W		R290	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R230	1-216-805-11	METAL CHIP	47	5%	1/16W								
							R291	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R231	1-216-826-11	METAL CHIP	2.7K	5%	1/16W		R292	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	
R232	1-216-841-11	METAL CHIP	47K	5%	1/16W		R293	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	
R233	1-216-841-11	METAL CHIP	47K	5%	1/16W		R294	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	
R234	1-216-826-11	METAL CHIP	2.7K	5%	1/16W		R295	1-216-835-11	METAL CHIP	15K	5%	1/16W	
R235	1-216-827-11	METAL CHIP	3.3K	5%	1/16W								

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R296	1-216-835-11	METAL CHIP	15K	5%	1/16W	R362	1-216-809-11	METAL CHIP	100	5%	1/16W
R298	1-218-867-11	METAL CHIP	6.8K	5%	1/10W	R363	1-216-834-11	METAL CHIP	12K	5%	1/16W
R299	1-216-841-11	METAL CHIP	47K	5%	1/16W	R364	1-216-833-11	METAL CHIP	10K	5%	1/16W
R300	1-216-841-11	METAL CHIP	47K	5%	1/16W	R365	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R301	1-218-867-11	METAL CHIP	6.8K	5%	1/10W	R366	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R302	1-216-841-11	METAL CHIP	47K	5%	1/16W	R367	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R303	1-216-841-11	METAL CHIP	47K	5%	1/16W	R368	1-216-809-11	METAL CHIP	100	5%	1/16W
R306	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R369	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R307	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R370	1-216-833-11	METAL CHIP	10K	5%	1/16W
R308	1-216-797-11	METAL CHIP	10	5%	1/16W	R371	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R309	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	R372	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R310	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R373	1-216-845-11	METAL CHIP	100K	5%	1/16W
R311	1-216-797-11	METAL CHIP	10	5%	1/16W	R374	1-216-833-11	METAL CHIP	10K	5%	1/16W
R312	1-216-805-11	METAL CHIP	47	5%	1/16W	R375	1-216-834-11	METAL CHIP	12K	5%	1/16W
R313	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	R376	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R314	1-216-816-11	METAL CHIP	390	5%	1/16W	R377	1-216-809-11	METAL CHIP	100	5%	1/16W
R315	1-216-841-11	METAL CHIP	47K	5%	1/16W	R378	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R316	1-216-841-11	METAL CHIP	47K	5%	1/16W	R379	1-216-833-11	METAL CHIP	10K	5%	1/16W
R317	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	R380	1-216-841-11	METAL CHIP	47K	5%	1/16W
R318	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R381	1-216-841-11	METAL CHIP	47K	5%	1/16W
R319	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R382	1-216-834-11	METAL CHIP	12K	5%	1/16W
R320	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R383	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R321	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R384	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R322	1-216-835-11	METAL CHIP	15K	5%	1/16W	R385	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R323	1-216-835-11	METAL CHIP	15K	5%	1/16W	R386	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R325	1-218-867-11	METAL CHIP	6.8K	5%	1/10W	R387	1-216-833-11	METAL CHIP	10K	5%	1/16W
R326	1-216-841-11	METAL CHIP	47K	5%	1/16W	R388	1-216-834-11	METAL CHIP	12K	5%	1/16W
R327	1-216-841-11	METAL CHIP	47K	5%	1/16W	R389	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R328	1-218-867-11	METAL CHIP	6.8K	5%	1/10W	R390	1-216-809-11	METAL CHIP	100	5%	1/16W
R329	1-216-841-11	METAL CHIP	47K	5%	1/16W	R391	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R330	1-216-841-11	METAL CHIP	47K	5%	1/16W	R392	1-216-833-11	METAL CHIP	10K	5%	1/16W
R333	1-216-801-11	METAL CHIP	22	5%	1/16W	R393	1-216-834-11	METAL CHIP	12K	5%	1/16W
R334	1-216-857-11	METAL CHIP	1M	5%	1/16W	R394	1-216-845-11	METAL CHIP	100K	5%	1/16W
R335	1-216-864-11	METAL CHIP	0	5%	1/16W	R395	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R336	1-216-864-11	METAL CHIP	0	5%	1/16W	R396	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R337	1-216-809-11	METAL CHIP	100	5%	1/16W	R397	1-216-833-11	METAL CHIP	10K	5%	1/16W
R338	1-216-801-11	METAL CHIP	22	5%	1/16W	R398	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R339	1-216-801-11	METAL CHIP	22	5%	1/16W	R399	1-216-809-11	METAL CHIP	100	5%	1/16W
R340	1-216-801-11	METAL CHIP	22	5%	1/16W	R400	1-216-817-11	METAL CHIP	470	5%	1/16W
R341	1-216-801-11	METAL CHIP	22	5%	1/16W	R401	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R342	1-216-817-11	METAL CHIP	470	5%	1/16W	R402	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R343	1-216-801-11	METAL CHIP	22	5%	1/16W	R403	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R344	1-216-801-11	METAL CHIP	22	5%	1/16W	R404	1-216-834-11	METAL CHIP	12K	5%	1/16W
R345	1-216-801-11	METAL CHIP	22	5%	1/16W	R405	1-216-841-11	METAL CHIP	47K	5%	1/16W
R346	1-216-801-11	METAL CHIP	22	5%	1/16W	R406	1-216-833-11	METAL CHIP	10K	5%	1/16W
R347	1-216-801-11	METAL CHIP	22	5%	1/16W	R407	1-216-841-11	METAL CHIP	47K	5%	1/16W
R348	1-216-801-11	METAL CHIP	22	5%	1/16W	R408	1-216-841-11	METAL CHIP	47K	5%	1/16W
R349	1-216-809-11	METAL CHIP	100	5%	1/16W	R409	1-216-834-11	METAL CHIP	12K	5%	1/16W
R350	1-216-809-11	METAL CHIP	100	5%	1/16W	R410	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R351	1-216-809-11	METAL CHIP	100	5%	1/16W	R411	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R352	1-216-809-11	METAL CHIP	100	5%	1/16W	R412	1-216-817-11	METAL CHIP	470	5%	1/16W
R353	1-216-809-11	METAL CHIP	100	5%	1/16W	R413	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R354	1-216-809-11	METAL CHIP	100	5%	1/16W	R414	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R355	1-216-809-11	METAL CHIP	100	5%	1/16W	R415	1-216-837-11	METAL CHIP	22K	5%	1/16W
R356	1-216-809-11	METAL CHIP	100	5%	1/16W	R416	1-216-841-11	METAL CHIP	47K	5%	1/16W
R357	1-216-809-11	METAL CHIP	100	5%	1/16W	R417	1-216-834-11	METAL CHIP	12K	5%	1/16W
R358	1-216-809-11	METAL CHIP	100	5%	1/16W	R418	1-216-837-11	METAL CHIP	22K	5%	1/16W
R359	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R419	1-216-834-11	METAL CHIP	12K	5%	1/16W
R360	1-216-809-11	METAL CHIP	100	5%	1/16W	R420	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R361	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R421	1-216-824-11	METAL CHIP	1.8K	5%	1/16W

AUDIO

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
R422	1-216-817-11	METAL CHIP	470	5%	1/16W	R482	1-216-845-11	METAL CHIP	100K	5%	1/16W
R423	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R483	1-216-845-11	METAL CHIP	100K	5%	1/16W
R424	1-216-824-11	METAL CHIP	1.8K	5%	1/16W	R484	1-216-845-11	METAL CHIP	100K	5%	1/16W
R425	1-216-834-11	METAL CHIP	12K	5%	1/16W	R485	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R426	1-216-841-11	METAL CHIP	47K	5%	1/16W	R486	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R427	1-216-837-11	METAL CHIP	22K	5%	1/16W	R487	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R428	1-216-834-11	METAL CHIP	12K	5%	1/16W	R488	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R429	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R489	1-216-845-11	METAL CHIP	100K	5%	1/16W
R430	1-216-824-11	METAL CHIP	1.8K	5%	1/16W	R490	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R431	1-216-837-11	METAL CHIP	22K	5%	1/16W	R491	1-216-821-11	METAL CHIP	1K	5%	1/16W
R432	1-216-817-11	METAL CHIP	470	5%	1/16W	R492	1-216-821-11	METAL CHIP	1K	5%	1/16W
R433	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R493	1-216-801-11	METAL CHIP	22	5%	1/16W
R434	1-216-824-11	METAL CHIP	1.8K	5%	1/16W	R494	1-216-833-11	METAL CHIP	10K	5%	1/16W
R435	1-216-834-11	METAL CHIP	12K	5%	1/16W	R495	1-216-833-11	METAL CHIP	10K	5%	1/16W
R436	1-216-841-11	METAL CHIP	47K	5%	1/16W	R496	1-216-833-11	METAL CHIP	10K	5%	1/16W
R437	1-216-834-11	METAL CHIP	12K	5%	1/16W	R497	1-216-833-11	METAL CHIP	10K	5%	1/16W
R438	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R498	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R439	1-216-824-11	METAL CHIP	1.8K	5%	1/16W	R499	1-216-821-11	METAL CHIP	1K	5%	1/16W
R440	1-216-817-11	METAL CHIP	470	5%	1/16W	R500	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R441	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R501	1-216-821-11	METAL CHIP	1K	5%	1/16W
R442	1-216-824-11	METAL CHIP	1.8K	5%	1/16W	R502	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R443	1-216-841-11	METAL CHIP	47K	5%	1/16W	R503	1-216-821-11	METAL CHIP	1K	5%	1/16W
R444	1-216-834-11	METAL CHIP	12K	5%	1/16W	R504	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R445	1-216-834-11	METAL CHIP	12K	5%	1/16W	R505	1-216-821-11	METAL CHIP	1K	5%	1/16W
R446	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R506	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R447	1-216-824-11	METAL CHIP	1.8K	5%	1/16W	R507	1-216-821-11	METAL CHIP	1K	5%	1/16W
R448	1-216-837-11	METAL CHIP	22K	5%	1/16W	R508	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R449	1-216-817-11	METAL CHIP	470	5%	1/16W	R509	1-216-821-11	METAL CHIP	1K	5%	1/16W
R450	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R510	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R451	1-216-824-11	METAL CHIP	1.8K	5%	1/16W	R511	1-216-821-11	METAL CHIP	1K	5%	1/16W
R452	1-216-837-11	METAL CHIP	22K	5%	1/16W	R512	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R453	1-216-834-11	METAL CHIP	12K	5%	1/16W	R513	1-216-821-11	METAL CHIP	1K	5%	1/16W
R454	1-216-841-11	METAL CHIP	47K	5%	1/16W	R514	1-216-864-11	METAL CHIP	0	5%	1/16W
R455	1-216-834-11	METAL CHIP	12K	5%	1/16W	R515	1-216-864-11	METAL CHIP	0	5%	1/16W
R456	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R516	1-216-864-11	METAL CHIP	0	5%	1/16W
R457	1-216-824-11	METAL CHIP	1.8K	5%	1/16W	R517	1-216-864-11	METAL CHIP	0	5%	1/16W
R458	1-216-817-11	METAL CHIP	470	5%	1/16W	R518	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R459	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R519	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R460	1-216-824-11	METAL CHIP	1.8K	5%	1/16W	R520	1-216-809-11	METAL CHIP	100	5%	1/16W
R461	1-216-834-11	METAL CHIP	12K	5%	1/16W	R521	1-216-809-11	METAL CHIP	100	5%	1/16W
R462	1-216-841-11	METAL CHIP	47K	5%	1/16W	R522	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R463	1-216-837-11	METAL CHIP	22K	5%	1/16W	R523	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R464	1-216-834-11	METAL CHIP	12K	5%	1/16W	R524	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R465	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R525	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R466	1-216-824-11	METAL CHIP	1.8K	5%	1/16W	R526	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R467	1-216-837-11	METAL CHIP	22K	5%	1/16W	R527	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R468	1-216-817-11	METAL CHIP	470	5%	1/16W	R528	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R469	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R529	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R470	1-216-824-11	METAL CHIP	1.8K	5%	1/16W	R530	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R471	1-216-841-11	METAL CHIP	47K	5%	1/16W	R531	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R472	1-216-834-11	METAL CHIP	12K	5%	1/16W	R532	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R473	1-216-841-11	METAL CHIP	47K	5%	1/16W	R540	1-216-809-11	METAL CHIP	100	5%	1/16W
R474	1-216-841-11	METAL CHIP	47K	5%	1/16W	R541	1-216-809-11	METAL CHIP	100	5%	1/16W
R475	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R542	1-216-809-11	METAL CHIP	100	5%	1/16W
R476	1-216-845-11	METAL CHIP	100K	5%	1/16W	R543	1-216-809-11	METAL CHIP	100	5%	1/16W
R477	1-216-845-11	METAL CHIP	100K	5%	1/16W	R544	1-216-809-11	METAL CHIP	100	5%	1/16W
R478	1-216-845-11	METAL CHIP	100K	5%	1/16W	R545	1-216-809-11	METAL CHIP	100	5%	1/16W
R479	1-216-845-11	METAL CHIP	100K	5%	1/16W	R546	1-216-809-11	METAL CHIP	100	5%	1/16W
R480	1-216-845-11	METAL CHIP	100K	5%	1/16W	R547	1-216-809-11	METAL CHIP	100	5%	1/16W
R481	1-216-845-11	METAL CHIP	100K	5%	1/16W	R548	1-216-809-11	METAL CHIP	100	5%	1/16W

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
R549	1-216-809-11	METAL CHIP	100	5%	1/16W	D406	8-719-082-67	DIODE FY1111C-634-TR (MIC3 -∞)			
R550	1-216-809-11	METAL CHIP	100	5%	1/16W	D407	8-719-082-67	DIODE FY1111C-634-TR (MIC2 -∞)			
R551	1-216-809-11	METAL CHIP	100	5%	1/16W	D408	8-719-082-67	DIODE FY1111C-634-TR (MIC1 -∞)			
△ R552	1-219-988-21	FUSIBLE CHIP	33	5%	1/10W	D409	8-719-074-30	DIODE SML-310LTT86 (LINE4 -OVER)			
△ R553	1-219-988-21	FUSIBLE CHIP	33	5%	1/10W	D410	8-719-074-30	DIODE SML-310LTT86 (LINE3 -OVER)			
△ R554	1-219-988-21	FUSIBLE CHIP	33	5%	1/10W	D411	8-719-074-30	DIODE SML-310LTT86 (MIC6/LINE2 -OVER)			
△ R555	1-219-988-21	FUSIBLE CHIP	33	5%	1/10W	D412	8-719-074-30	DIODE SML-310LTT86 (MIC5/LINE1 -OVER)			
△ R556	1-219-988-21	FUSIBLE CHIP	33	5%	1/10W	D413	8-719-074-30	DIODE SML-310LTT86 (MIC4 -OVER)			
△ R557	1-219-988-21	FUSIBLE CHIP	33	5%	1/10W	D414	8-719-074-30	DIODE SML-310LTT86 (MIC3 -OVER)			
△ R558	1-219-988-21	FUSIBLE CHIP	33	5%	1/10W	D415	8-719-074-30	DIODE SML-310LTT86 (MIC2 -OVER)			
△ R559	1-219-988-21	FUSIBLE CHIP	33	5%	1/10W	D416	8-719-074-30	DIODE SML-310LTT86 (MIC1 -OVER)			
△ R560	1-219-988-21	FUSIBLE CHIP	33	5%	1/10W	D417	8-719-064-52	DIODE CL-191YG-CD-T (LINE4 -SIGNAL)			
△ R561	1-219-988-21	FUSIBLE CHIP	33	5%	1/10W	D418	8-719-064-52	DIODE CL-191YG-CD-T (LINE3 -SIGNAL)			
< RELAY >						D419	8-719-064-52	DIODE CL-191YG-CD-T	(MIC6/LINE2 -SIGNAL)		
RY201	1-755-062-11	RELAY	(MIC5/LINE1 -SIGNAL)								
< SWITCH >						D421	8-719-064-52	DIODE CL-191YG-CD-T (MIC4 -SIGNAL)			
S201	1-692-485-11	SWITCH, PUSH (1 KEY) (MIC1 +48V)									
S202	1-692-485-11	SWITCH, PUSH (1 KEY) (MIC2 +48V)									
S203	1-692-485-11	SWITCH, PUSH (1 KEY) (MIC3 +48V)									
S204	1-692-485-11	SWITCH, PUSH (1 KEY) (MIC4 +48V)									
S205	1-771-993-11	SWITCH, PUSH (1 KEY) (MIC5 +48V)	< IC >								
S206	1-771-993-11	SWITCH, PUSH (1 KEY) (MIC6 +48V)	IC401 8-759-396-78 IC BU2092F-E2								
< THERMISTOR >						IC402	8-759-396-78	IC BU2092F-E2			
△ TH201	1-801-826-11	THERMISTOR, POSITIVE (RXE075)									
△ TH202	1-801-826-11	THERMISTOR, POSITIVE (RXE075)									
< VIBRATOR >						R401	1-216-816-11	METAL CHIP	390	5%	1/16W
X201	1-781-465-21	VIBRATOR, CRYSTAL									

*	A-4591-410-A	DISPLAY BOARD, COMPLETE	*****								
< CAPACITOR >						R406	1-216-816-11	METAL CHIP	390	5%	1/16W
C401	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	R407	1-216-816-11	METAL CHIP	390	5%	1/16W
C402	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	R408	1-216-816-11	METAL CHIP	390	5%	1/16W
C403	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	R409	1-216-813-11	METAL CHIP	220	5%	1/16W
C404	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	R410	1-216-813-11	METAL CHIP	220	5%	1/16W
C405	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	R411	1-216-813-11	METAL CHIP	220	5%	1/16W
C406	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	R412	1-216-813-11	METAL CHIP	220	5%	1/16W
< CONNECTOR >						R413	1-216-813-11	METAL CHIP	220	5%	1/16W
CN401	1-784-731-11	CONNECTOR, FFC 9P									
< DIODE >						R414	1-216-813-11	METAL CHIP	220	5%	1/16W
D401	8-719-082-67	DIODE FY1111C-634-TR (LINE4 -∞)									
D402	8-719-082-67	DIODE FY1111C-634-TR (LINE3 -∞)									
D403	8-719-082-67	DIODE FY1111C-634-TR (MIC6/LINE2 -∞)									
D404	8-719-082-67	DIODE FY1111C-634-TR (MIC5/LINE1 -∞)									
D405	8-719-082-67	DIODE FY1111C-634-TR (MIC4 -∞)									
△印の部品 または △印付きの点線で囲まれた部品は											

△印の部品,または△印付きの点線で囲まれた部品は,
安全性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下さい。

The components identified by
mark △ or dotted line with mark
△ are critical for safety.
Replace only with part number
specified.

Les composants identifiés par
une marque △ sont critiques
pour la sécurité.
Ne les remplacer que par une
pièce portant le numéro spécifié.

以阴影和△标志来识别的零
部件,在安全方面具有关键
性,因此只能以规定号码的
零部件来更换。

DISPLAY

DSP

Ref. No.	Part No.	Description	Remarks		
R426	1-216-821-11	METAL CHIP 1K	5%	1/16W	
R427	1-216-821-11	METAL CHIP 1K	5%	1/16W	
R428	1-216-821-11	METAL CHIP 1K	5%	1/16W	

*	A-4591-407-A	DSP BOARD, COMPLETE	*****		
		< CAPACITOR >			
C101	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C102	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C103	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C104	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C105	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C106	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C107	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C108	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C109	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C110	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C111	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C112	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C113	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C114	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C115	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C116	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C117	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
C118	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
C119	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C120	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C121	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C122	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C123	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C124	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C125	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V	
C126	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C127	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C128	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C129	1-124-779-00	ELECT CHIP 10uF	20%	16V	
C130	1-164-677-11	CERAMIC CHIP 0.033uF	10.00%	16V	
C132	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C133	1-126-206-11	ELECT CHIP 100uF	20%	6.3V	
C137	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C138	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C139	1-124-779-00	ELECT CHIP 10uF	20%	16V	
C140	1-135-346-21	ELECT CHIP 39uF	20%	16V	
C141	1-124-779-00	ELECT CHIP 10uF	20%	16V	
C142	1-135-346-21	ELECT CHIP 39uF	20%	16V	
C143	1-124-779-00	ELECT CHIP 10uF	20%	16V	
C144	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C145	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C146	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C147	1-126-206-11	ELECT CHIP 100uF	20%	6.3V	
C148	1-126-206-11	ELECT CHIP 100uF	20%	6.3V	
C149	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C150	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C151	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C152	1-164-315-11	CERAMIC CHIP 470PF	5.00%	50V	
C153	1-124-779-00	ELECT CHIP 10uF	20%	16V	
C154	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	

Ref. No.	Part No.	Description	Remarks		
C155	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C156	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C157	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C158	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C159	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C160	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C161	1-124-779-00	ELECT CHIP 10uF	20%	16V	
C162	1-135-346-21	ELECT CHIP 39uF	20%	16V	
C163	1-124-779-00	ELECT CHIP 10uF	20%	16V	
C164	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C165	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C166	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C167	1-126-206-11	ELECT CHIP 100uF	20%	6.3V	
C168	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C169	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C170	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C171	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C172	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C173	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C174	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C175	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C176	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C177	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C178	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C179	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C180	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C181	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C182	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C183	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C184	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C185	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C186	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C187	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C188	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V	
C189	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V	
C190	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V	
C191	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V	
C192	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V	
C193	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V	
C194	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V	
C195	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V	
C196	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C197	1-162-919-11	CERAMIC CHIP 22PF	5%	50V	
C198	1-162-919-11	CERAMIC CHIP 22PF	5%	50V	
C199	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C200	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C201	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C202	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C204	1-162-970-11	CERAMIC CHIP 0.01uF	10%	25V	
C205	1-162-970-11	CERAMIC CHIP 0.01uF	10%	25V	
C206	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
C207	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V	
C208	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V	
C209	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V	
C210	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V	
C211	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V	
C212	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C213	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C222	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	
C223	1-107-826-11	CERAMIC CHIP 0.1uF	10.00%	16V	

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
C224	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	IC135	8-759-831-52	IC TC7WH125FK(TE85R)			
C225	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	IC136	8-759-196-96	IC TC7SH08FU-TE85R			
C226	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	IC137	8-759-196-96	IC TC7SH08FU-TE85R			
C227	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	< COIL >					
< CONNECTOR >						L102	1-412-529-15	INDUCTOR	22uH		
CN102	1-569-341-11	CONNECTOR, BOARD TO BOARD 19P				L103	1-412-056-11	INDUCTOR	4.7uH		
CN103	1-770-688-11	CONNECTOR, FFC/FPC 5P				L104	1-412-031-11	INDUCTOR CHIP	47uH		
CN104	1-569-341-11	CONNECTOR, BOARD TO BOARD 19P				< TRANSISTOR >					
* CN105	1-563-626-11	CONNECTOR, FLEXIBLE 23P				Q101	8-729-421-22	TRANSISTOR	UN2211-TX		
CN106	1-784-792-11	CONNECTOR, FFC 31P				Q102	8-729-421-22	TRANSISTOR	UN2211-TX		
CN107	1-563-614-31	CONNECTOR, FLEXIBLE 11P				Q103	8-729-421-22	TRANSISTOR	UN2211-TX		
< DIODE >						Q104	8-729-421-22	TRANSISTOR	UN2211-TX		
D101	8-719-064-52	DIODE CL-191YG-CD-T				Q105	8-729-271-31	TRANSISTOR	2SC2713G-TE85L		
D102	8-719-074-30	DIODE SML-310LTT86				Q106	8-729-421-22	TRANSISTOR	UN2211-TX		
D103	8-719-988-61	DIODE 1SS355TE-17				Q107	8-729-421-22	TRANSISTOR	UN2211-TX		
D104	8-719-064-52	DIODE CL-191YG-CD-T				Q108	8-729-271-31	TRANSISTOR	2SC2713G-TE85L		
D105	8-719-988-61	DIODE 1SS355TE-17				< RESISTOR >					
D106	8-719-988-61	DIODE 1SS355TE-17				R101	1-216-864-11	METAL CHIP	0	5%	1/16W
< FERRITE BEAD >						R102	1-216-833-11	METAL CHIP	10K	5%	1/16W
FB101	1-414-748-11	FERRITE	0UH			R103	1-216-833-11	METAL CHIP	10K	5%	1/16W
FB102	1-400-040-22	FERRITE	0UH			R104	1-216-833-11	METAL CHIP	10K	5%	1/16W
FB103	1-216-805-11	METAL CHIP	47	5%	1/16W	(J)					
FB104	1-216-805-11	METAL CHIP	47	5%	1/16W	R105	1-216-833-11	METAL CHIP	10K	5%	1/16W
< IC >						R106	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC101	6-700-749-01	IC IDT71V016SA15PH-TL				R107	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC102	6-700-749-01	IC IDT71V016SA15PH-TL				R108	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC103	8-759-580-98	IC ADSP-21065LKS-240				R109	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC104	8-759-524-50	IC TC74VHC541FT(EL)				R111	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC105	6-701-995-01	IC SN74LVCU04APWR				R112	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
IC106	8-759-523-95	IC TC74VHC74FT(EL)				R113	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
IC107	8-759-580-98	IC ADSP-21065LKS-240				R114	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC108	8-759-487-20	IC PST9330UL				R115	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC109	8-759-445-59	IC BA033T				R116	1-216-809-11	METAL CHIP	100	5%	1/16W
IC110	8-759-445-59	IC BA033T				R117	1-216-809-11	METAL CHIP	100	5%	1/16W
IC111	8-759-523-78	IC TC74VHC00FT(EL)				R118	1-216-809-11	METAL CHIP	100	5%	1/16W
IC112	8-759-643-29	IC BR24C64F-E2				R119	1-216-809-11	METAL CHIP	100	5%	1/16W
IC113	8-759-487-20	IC PST9330UL				R120	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC114	8-759-445-59	IC BA033T				R121	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC115	8-759-523-78	IC TC74VHC00FT(EL)				R122	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC118	8-759-488-17	IC BR93LC46F-E2				R123	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC119	6-801-974-01	IC HD64F2633F-X700V100				(J)					
IC120	8-759-643-29	IC BR24C64F-E2				R124	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC121	8-759-524-23	IC TC74VHC238FT(EL)				R125	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC122	8-759-524-23	IC TC74VHC238FT(EL)				R126	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC123	8-759-252-59	IC MAX202CSE-T				R127	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC124	8-759-252-59	IC MAX202CSE-T				R128	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC125	6-702-398-01	IC FT8U232AM				R129	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC126	8-759-534-46	IC PST9343UR				(J)					
IC127	8-759-196-93	IC TC7SH00FU-TE85R				R130	1-216-833-11	METAL CHIP	10K	5%	1/16W
						R131	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC128	8-759-594-71	IC TC7SH14FU-TE85R				R132	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC129	8-759-594-71	IC TC7SH14FU-TE85R				R133	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC131	6-701-994-01	IC SN74LVCH245APWR				R134	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC132	6-701-994-01	IC SN74LVCH245APWR				R135	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC134	8-759-196-96	IC TC7SH08FU-TE85R				R136	1-216-833-11	METAL CHIP	10K	5%	1/16W

DSP

FADER

Ref. No.	Part No.	Description			Remarks
R137	1-216-833-11	METAL CHIP	10K	5%	1/16W
R138	1-216-821-11	METAL CHIP	1K	5%	1/16W
R141	1-216-809-11	METAL CHIP	100	5%	1/16W
R142	1-216-835-11	METAL CHIP	15K	5%	1/16W
R143	1-216-833-11	METAL CHIP	10K	5%	1/16W
R144	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R145	1-216-821-11	METAL CHIP	1K	5%	1/16W
R146	1-216-821-11	METAL CHIP	1K	5%	1/16W
R149	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R150	1-216-833-11	METAL CHIP	10K	5%	1/16W
(J)					
R151	1-216-833-11	METAL CHIP	10K	5%	1/16W
(J)					
R152	1-216-833-11	METAL CHIP	10K	5%	1/16W
R153	1-216-833-11	METAL CHIP	10K	5%	1/16W
R154	1-216-837-11	METAL CHIP	22K	5%	1/16W
R155	1-216-809-11	METAL CHIP	100	5%	1/16W
R156	1-216-809-11	METAL CHIP	100	5%	1/16W
R157	1-216-809-11	METAL CHIP	100	5%	1/16W
R158	1-216-809-11	METAL CHIP	100	5%	1/16W
R159	1-216-833-11	METAL CHIP	10K	5%	1/16W
R160	1-216-833-11	METAL CHIP	10K	5%	1/16W
R161	1-216-833-11	METAL CHIP	10K	5%	1/16W
R162	1-216-833-11	METAL CHIP	10K	5%	1/16W
R163	1-216-833-11	METAL CHIP	10K	5%	1/16W
R164	1-216-833-11	METAL CHIP	10K	5%	1/16W
R165	1-216-833-11	METAL CHIP	10K	5%	1/16W
R166	1-216-833-11	METAL CHIP	10K	5%	1/16W
R167	1-216-833-11	METAL CHIP	10K	5%	1/16W
R168	1-216-833-11	METAL CHIP	10K	5%	1/16W
R169	1-216-833-11	METAL CHIP	10K	5%	1/16W
R170	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R171	1-216-813-11	METAL CHIP	220	5%	1/16W
R172	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R173	1-216-809-11	METAL CHIP	100	5%	1/16W
R174	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R175	1-216-837-11	METAL CHIP	22K	5%	1/16W
R176	1-216-845-11	METAL CHIP	100K	5%	1/16W
R177	1-216-809-11	METAL CHIP	100	5%	1/16W
R178	1-216-833-11	METAL CHIP	10K	5%	1/16W
R180	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R181	1-216-821-11	METAL CHIP	1K	5%	1/16W
R182	1-216-833-11	METAL CHIP	10K	5%	1/16W
R183	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R184	1-216-815-11	METAL CHIP	330	5%	1/16W
R185	1-216-815-11	METAL CHIP	330	5%	1/16W
R186	1-216-833-11	METAL CHIP	10K	5%	1/16W
R187	1-216-797-11	METAL CHIP	10	5%	1/16W
R188	1-216-797-11	METAL CHIP	10	5%	1/16W
R189	1-216-797-11	METAL CHIP	10	5%	1/16W
R190	1-216-797-11	METAL CHIP	10	5%	1/16W
R191	1-216-853-11	METAL CHIP	470K	5%	1/16W
R192	1-216-853-11	METAL CHIP	470K	5%	1/16W
R193	1-216-853-11	METAL CHIP	470K	5%	1/16W
R194	1-216-853-11	METAL CHIP	470K	5%	1/16W
R195	1-216-853-11	METAL CHIP	470K	5%	1/16W
R196	1-216-853-11	METAL CHIP	470K	5%	1/16W
R197	1-216-853-11	METAL CHIP	470K	5%	1/16W
R198	1-216-853-11	METAL CHIP	470K	5%	1/16W
R199	1-216-857-11	METAL CHIP	1M	5%	1/16W
R200	1-216-809-11	METAL CHIP	100	5%	1/16W
R201	1-216-833-11	METAL CHIP	10K	5%	1/16W

Ref. No.	Part No.	Description			Remarks
R202	1-216-833-11	METAL CHIP	10K	5%	1/16W
R203	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R206	1-216-833-11	METAL CHIP	10K	5%	1/16W
R207	1-216-809-11	METAL CHIP	100	5%	1/16W
R208	1-216-809-11	METAL CHIP	100	5%	1/16W
R209	1-216-809-11	METAL CHIP	100	5%	1/16W
R210	1-216-809-11	METAL CHIP	100	5%	1/16W
R211	1-216-809-11	METAL CHIP	100	5%	1/16W
R212	1-216-809-11	METAL CHIP	100	5%	1/16W
R213	1-216-809-11	METAL CHIP	100	5%	1/16W
R214	1-216-809-11	METAL CHIP	100	5%	1/16W
R215	1-216-809-11	METAL CHIP	100	5%	1/16W
R216	1-216-833-11	METAL CHIP	10K	5%	1/16W
R217	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R218	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R219	1-216-821-11	METAL CHIP	1K	5%	1/16W
R220	1-216-833-11	METAL CHIP	10K	5%	1/16W
R221	1-216-833-11	METAL CHIP	10K	5%	1/16W
R222	1-216-821-11	METAL CHIP	1K	5%	1/16W
R223	1-216-809-11	METAL CHIP	100	5%	1/16W
R224	1-216-809-11	METAL CHIP	100	5%	1/16W
R225	1-216-809-11	METAL CHIP	100	5%	1/16W
R226	1-216-809-11	METAL CHIP	100	5%	1/16W
R227	1-216-833-11	METAL CHIP	10K	5%	1/16W
R228	1-216-833-11	METAL CHIP	10K	5%	1/16W
R229	1-216-815-11	METAL CHIP	330	5%	1/16W
R230	1-216-845-11	METAL CHIP	100K	5%	1/16W
R231	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
< RELAY >					
RY101	1-755-060-11	RELAY			
< SWITCH >					
S101	1-572-473-11	SWITCH, TACTIL			
< VIBRATOR >					
X101	1-795-221-21	VIBRATOR, CRYSTAL			
X102	1-781-170-21	VIBRATOR, CERAMIC			

* A-4591-412-A FADER BOARD, COMPLETE					

< CAPACITOR >					
C204	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C209	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C210	1-124-261-00	ELECT	10uF	20%	50V
C212	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V (J)
C213	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V (J)
C214	1-124-261-00	ELECT	10uF	20%	50V
C215	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C216	1-124-261-00	ELECT	10uF	20%	50V
C217	1-124-261-00	ELECT	10uF	20%	50V
C218	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C219	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C220	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C221	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C222	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

FADER

LED

MA

MB

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		< CONNECTOR >					
CN201	1-691-645-11	SOCKET, CONNECTOR 9P		RV206	1-227-483-11	RES, VAR, SLIDE 10K (MIC6/LINE2)	
CN202	1-691-649-11	SOCKET, CONNECTOR 17P		RV207	1-227-483-11	RES, VAR, SLIDE 10K (LINE3)	
CN203	1-691-646-11	SOCKET, CONNECTOR 11P		RV208	1-227-483-11	RES, VAR, SLIDE 10K (LINE4)	
CN205	1-784-733-11	CONNECTOR, FFC 11P				< SWITCH >	
CN206	1-691-652-11	SOCKET, CONNECTOR 23P		S201	1-771-908-11	SWITCH, TACTILE (LINE4 SELECT A)	
		< DIODE >		S202	1-771-908-11	SWITCH, TACTILE (LINE4 SELECT B)	
D201	8-719-081-80	DIODE SEL5823A-D2D3-TP15		S203	1-771-908-11	SWITCH, TACTILE (LINE4 SELECT C)	
D202	8-719-081-80	DIODE SEL5823A-D2D3-TP15		S204	1-771-908-11	SWITCH, TACTILE (LINE4 SELECT D)	
D203	8-719-081-80	DIODE SEL5823A-D2D3-TP15		S205	1-771-908-11	SWITCH, TACTILE (LINE4 SELECT E)	
D204	8-719-081-80	DIODE SEL5823A-D2D3-TP15					
D205	8-719-081-80	DIODE SEL5823A-D2D3-TP15		S206	1-771-908-11	SWITCH, TACTILE (LINE4 SELECT F)	

D206	8-719-081-80	DIODE SEL5823A-D2D3-TP15				LED BOARD	

		< IC >				< DIODE >	
IC201	8-759-011-64	IC TC74HC4052AF(EL)		D301	8-719-304-85	DIODE SEL2410G-D-TP	
IC202	8-759-011-64	IC TC74HC4052AF(EL)				*****	
IC203	8-759-186-59	IC TC74VHC238F(EL)				MA BOARD	
IC204	8-759-396-78	IC BU2092F-E2				*****	
IC205	8-759-396-78	IC BU2092F-E2				< CAPACITOR >	
		< COIL >					
L201	1-412-529-11	INDUCTOR 22uH		C401	1-107-826-11	CERAMIC CHIP 0.1uF 10.00% 16V (J)	
L202	1-412-031-11	INDUCTOR CHIP 47uH				< CONNECTOR >	
L203	1-412-031-11	INDUCTOR CHIP 47uH		CN041	1-784-733-11	CONNECTOR, FFC 11P	
		< RESISTOR >		CN042	1-569-340-11	CONNECTOR, BOARD TO BOARD 11P	
R201	1-216-810-11	METAL CHIP 120 5% 1/16W				< VARIABLE RESISTOR >	
R202	1-216-810-11	METAL CHIP 120 5% 1/16W					
R203	1-216-810-11	METAL CHIP 120 5% 1/16W		RV401	1-227-484-11	RES, VAR, CARBON 10K (MASTER A VOLUME)	
R204	1-216-810-11	METAL CHIP 120 5% 1/16W				*****	
R205	1-216-810-11	METAL CHIP 120 5% 1/16W					
				*	A-4591-418-A	MB BOARD, COMPLETE	
R206	1-216-810-11	METAL CHIP 120 5% 1/16W				*****	
R207	1-216-841-11	METAL CHIP 47K 5% 1/16W				< CAPACITOR >	
R208	1-216-836-11	METAL CHIP 18K 5% 1/16W					
R209	1-218-867-11	METAL CHIP 6.8K 5% 1/10W		C402	1-107-826-11	CERAMIC CHIP 0.1uF 10.00% 16V (J)	
R210	1-216-829-11	METAL CHIP 4.7K 5% 1/16W		C403	1-107-826-11	CERAMIC CHIP 0.1uF 10.00% 16V	
						< CONNECTOR >	
R211	1-216-827-11	METAL CHIP 3.3K 5% 1/16W		CN051	1-569-337-11	CONNECTOR, BOARD TO BOARD 11P	
R212	1-216-833-11	METAL CHIP 10K 5% 1/16W				< DIODE >	
R213	1-216-821-11	METAL CHIP 1K 5% 1/16W		D401	8-719-081-80	DIODE SEL5823A-D2D3-TP15	
R214	1-216-821-11	METAL CHIP 1K 5% 1/16W		D402	8-719-081-80	DIODE SEL5823A-D2D3-TP15	
R215	1-216-821-11	METAL CHIP 1K 5% 1/16W		D403	8-719-081-80	DIODE SEL5823A-D2D3-TP15	
				D404	8-719-081-80	DIODE SEL5823A-D2D3-TP15	
R216	1-216-821-11	METAL CHIP 1K 5% 1/16W				< RESISTOR >	
R221	1-216-821-11	METAL CHIP 1K 5% 1/16W					
R222	1-216-821-11	METAL CHIP 1K 5% 1/16W					
		(J)					
R223	1-216-821-11	METAL CHIP 1K 5% 1/16W					
R224	1-216-821-11	METAL CHIP 1K 5% 1/16W					
R225	1-216-821-11	METAL CHIP 1K 5% 1/16W					
R226	1-216-821-11	METAL CHIP 1K 5% 1/16W					
R227	1-216-821-11	METAL CHIP 1K 5% 1/16W					
R228	1-216-821-11	METAL CHIP 1K 5% 1/16W					
		< VARIABLE RESISTOR >					
RV201	1-227-483-11	RES, VAR, SLIDE 10K (MIC1)		R401	1-216-810-11	METAL CHIP 120 5% 1/16W	
RV202	1-227-483-11	RES, VAR, SLIDE 10K (MIC2)		R402	1-216-810-11	METAL CHIP 120 5% 1/16W	
RV203	1-227-483-11	RES, VAR, SLIDE 10K (MIC3)		R403	1-216-810-11	METAL CHIP 120 5% 1/16W	
RV204	1-227-483-11	RES, VAR, SLIDE 10K (MIC4)		R404	1-216-810-11	METAL CHIP 120 5% 1/16W	
RV205	1-227-483-11	RES, VAR, SLIDE 10K (MIC5/LINE1)		R405	1-218-867-11	METAL CHIP 6.8K 5% 1/10W	
				R406	1-216-829-11	METAL CHIP 4.7K 5% 1/16W	
				R407	1-216-827-11	METAL CHIP 3.3K 5% 1/16W	
				R408	1-216-833-11	METAL CHIP 10K 5% 1/16W	

MB

METER

Ref. No.	Part No.	Description	Remarks
		< VARIABLE RESISTOR >	
RV402	1-227-484-11	RES, VAR, CARBON 10K (MASTER B VOLUME)	
		< SWITCH >	
S401	1-771-908-11	SWITCH, TACTILE (SCENE RECALL A)	
S402	1-771-908-11	SWITCH, TACTILE (SCENE RECALL B)	
S403	1-771-908-11	SWITCH, TACTILE (SCENE RECALL C)	
S404	1-771-908-11	SWITCH, TACTILE (SCENE RECALL D)	

*	A-4591-423-A	METER BOARD, COMPLETE	

		< CAPACITOR >	
C301	1-107-826-11	CERAMIC CHIP 0.1uF 10.00% 16V	
C302	1-107-826-11	CERAMIC CHIP 0.1uF 10.00% 16V (J)	
C303	1-107-826-11	CERAMIC CHIP 0.1uF 10.00% 16V (J)	
C304	1-107-826-11	CERAMIC CHIP 0.1uF 10.00% 16V	
C306	1-107-826-11	CERAMIC CHIP 0.1uF 10.00% 16V	
C307	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C308	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C309	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C310	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C311	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C312	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C313	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C314	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
		< CONNECTOR >	
CN301	1-784-739-11	CONNECTOR, FFC 17P	
		< DIODE >	
D301	8-719-074-30	DIODE SML-310LTT86 (CH1 +3)	
D302	8-719-074-30	DIODE SML-310LTT86 (CH2 +3)	
D303	8-719-074-30	DIODE SML-310LTT86 (CH3 +3)	
D304	8-719-074-30	DIODE SML-310LTT86 (CH4 +3)	
D305	8-719-074-30	DIODE SML-310LTT86 (CH5 +3)	
D306	8-719-074-30	DIODE SML-310LTT86 (CH6 +3)	
D307	8-719-074-30	DIODE SML-310LTT86 (CH7 +3)	
D308	8-719-074-30	DIODE SML-310LTT86 (CH8 +3)	
D309	8-719-074-30	DIODE SML-310LTT86 (CH1 0)	
D310	8-719-074-30	DIODE SML-310LTT86 (CH2 0)	
D311	8-719-074-30	DIODE SML-310LTT86 (CH3 0)	
D312	8-719-074-30	DIODE SML-310LTT86 (CH4 0)	
D313	8-719-074-30	DIODE SML-310LTT86 (CH5 0)	
D314	8-719-074-30	DIODE SML-310LTT86 (CH6 0)	
D315	8-719-074-30	DIODE SML-310LTT86 (CH7 0)	
D316	8-719-074-30	DIODE SML-310LTT86 (CH8 0)	
D317	8-719-064-52	DIODE CL-191YG-CD-T (CH1 -5)	
D318	8-719-064-52	DIODE CL-191YG-CD-T (CH2 -5)	
D319	8-719-064-52	DIODE CL-191YG-CD-T (CH3 -5)	
D320	8-719-064-52	DIODE CL-191YG-CD-T (CH4 -5)	
D321	8-719-064-52	DIODE CL-191YG-CD-T (CH5 -5)	
D322	8-719-064-52	DIODE CL-191YG-CD-T (CH6 -5)	
D323	8-719-064-52	DIODE CL-191YG-CD-T (CH7 -5)	
D324	8-719-064-52	DIODE CL-191YG-CD-T (CH8 -5)	
D325	8-719-064-52	DIODE CL-191YG-CD-T (CH1 -10)	

Ref. No.	Part No.	Description	Remarks
D326	8-719-064-52	DIODE CL-191YG-CD-T (CH2 -10)	
D327	8-719-064-52	DIODE CL-191YG-CD-T (CH3 -10)	
D328	8-719-064-52	DIODE CL-191YG-CD-T (CH4 -10)	
D329	8-719-064-52	DIODE CL-191YG-CD-T (CH5 -10)	
D330	8-719-064-52	DIODE CL-191YG-CD-T (CH6 -10)	
D331	8-719-064-52	DIODE CL-191YG-CD-T (CH7 -10)	
D332	8-719-064-52	DIODE CL-191YG-CD-T (CH8 -10)	
D333	8-719-064-52	DIODE CL-191YG-CD-T (CH1 -20)	
D334	8-719-064-52	DIODE CL-191YG-CD-T (CH2 -20)	
D335	8-719-064-52	DIODE CL-191YG-CD-T (CH3 -20)	
D336	8-719-064-52	DIODE CL-191YG-CD-T (CH4 -20)	
D337	8-719-064-52	DIODE CL-191YG-CD-T (CH5 -20)	
D338	8-719-064-52	DIODE CL-191YG-CD-T (CH6 -20)	
D339	8-719-064-52	DIODE CL-191YG-CD-T (CH7 -20)	
D340	8-719-064-52	DIODE CL-191YG-CD-T (CH8 -20)	
D341	8-719-988-61	DIODE 1SS355TE-17	
D342	8-719-988-61	DIODE 1SS355TE-17	
D343	8-719-074-30	DIODE SML-310LTT86 (MASTER A -OVER)	
D344	8-719-074-30	DIODE SML-310LTT86 (PROTECTION)	
D345	8-719-074-30	DIODE SML-310LTT86 (MASTER B -OVER)	
D346	8-719-082-67	DIODE FY1111C-634-TR (MASTER A -∞)	
D347	8-719-074-30	DIODE SML-310LTT86 (CLIP)	
D348	8-719-082-67	DIODE FY1111C-634-TR (MASTER B -∞)	
		< IC >	
IC301	8-759-396-78	IC BU2092F-E2	
IC302	8-759-396-78	IC BU2092F-E2	
IC303	8-759-396-78	IC BU2092F-E2	
IC304	8-759-396-78	IC BU2092F-E2	
		< TRANSISTOR >	
Q301	8-729-055-22	TRANSISTOR 2SA1734(Te12L)	
Q302	8-729-055-22	TRANSISTOR 2SA1734(Te12L)	
Q303	8-729-055-22	TRANSISTOR 2SA1734(Te12L)	
Q304	8-729-055-22	TRANSISTOR 2SA1734(Te12L)	
Q305	8-729-055-22	TRANSISTOR 2SA1734(Te12L)	
Q306	8-729-055-22	TRANSISTOR 2SA1734(Te12L)	
Q307	8-729-055-22	TRANSISTOR 2SA1734(Te12L)	
Q308	8-729-055-22	TRANSISTOR 2SA1734(Te12L)	
Q309	8-729-424-08	TRANSISTOR UN2111-TX	
Q310	8-729-421-19	TRANSISTOR UN2213-TX	
		< RESISTOR >	
R301	1-216-822-11	METAL CHIP 1.2K 5% 1/16W	
R302	1-216-822-11	METAL CHIP 1.2K 5% 1/16W	
R303	1-216-806-11	METAL CHIP 56 5% 1/10W	
R304	1-216-806-11	METAL CHIP 56 5% 1/10W	
R305	1-216-806-11	METAL CHIP 56 5% 1/10W	
R306	1-216-806-11	METAL CHIP 56 5% 1/10W	
R307	1-216-806-11	METAL CHIP 56 5% 1/10W	
R308	1-216-806-11	METAL CHIP 56 5% 1/10W	
R309	1-216-806-11	METAL CHIP 56 5% 1/10W	
R310	1-216-806-11	METAL CHIP 56 5% 1/10W	
R311	1-216-813-11	METAL CHIP 220 5% 1/16W	
R312	1-216-813-11	METAL CHIP 220 5% 1/16W	
R313	1-216-813-11	METAL CHIP 220 5% 1/16W	
R314	1-216-816-11	METAL CHIP 390 5% 1/16W	
R315	1-216-813-11	METAL CHIP 220 5% 1/16W	(J)

Ref. No.	Part No.	Description				Remarks	Ref. No.	Part No.	Description				Remarks
R316	1-216-816-11	METAL CHIP	390	5%	1/16W		C048	1-130-777-00	MYLAR	0.1uF	10.00%	100V	
R317	1-216-833-11	METAL CHIP	10K	5%	1/16W		C050	1-130-785-11	MYLAR	0.47uF	10.00%	100V	
R318	1-216-821-11	METAL CHIP	1K	5%	1/16W		C053	1-128-401-11	ELECT CHIP	100uF	20.00%	25V	
R319	1-216-821-11	METAL CHIP	1K	5%	1/16W		C055	1-130-777-00	MYLAR	0.1uF	10.00%	100V	
R320	1-216-821-11	METAL CHIP	1K	5%	1/16W		C056	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	
R321	1-216-821-11	METAL CHIP	1K	5%	1/16W		C057	1-128-401-11	ELECT CHIP	100uF	20.00%	25V	
R322	1-216-821-11	METAL CHIP	1K	5%	1/16W		C060	1-128-401-11	ELECT CHIP	100uF	20.00%	25V	
R323	1-216-821-11	METAL CHIP	1K	5%	1/16W		C061	1-128-401-11	ELECT CHIP	100uF	20.00%	25V	
R324	1-216-821-11	METAL CHIP	1K	5%	1/16W		C062	1-128-401-11	ELECT CHIP	100uF	20.00%	25V	
R325	1-216-821-11	METAL CHIP	1K	5%	1/16W		C063	1-135-346-21	ELECT CHIP	39uF	20%	16V	

*	A-4591-395-A	PA BOARD, COMPLETE	*****										
*	2-347-537-01	HEAT SINK											
*	2-347-551-01	SHEET, INSULATING											
	4-812-554-00	WASHER											
	7-683-407-04	BOLT,HEXAGON SOCKET 3X14											
	7-685-872-09	SCREW +BVTT 3X8 (S)											
		< CAPACITOR >											
C001	1-164-217-11	CERAMIC CHIP	150PF	5.00%	50V		C074	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C002	1-127-711-11	ELECT	47uF	20%	200V		C075	1-126-601-11	ELECT CHIP	2.2uF	20%	50V	
C003	1-110-624-51	ELECT	100uF	20.00%	100V		C077	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	
C005	1-136-189-00	MYLAR	0.1uF	10.00%	250V		C078	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	
C006	1-130-777-00	MYLAR	0.1uF	10.00%	100V		C079	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	
C007	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V		C081	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	
C008	1-126-601-11	ELECT CHIP	2.2uF	20%	50V		C082	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	
C009	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V		C083	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
C010	1-164-388-91	CERAMIC CHIP	270PF	5.00%	50V		C084	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C011	1-128-403-11	ELECT CHIP	47uF	20.00%	35V		C085	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
C013	1-130-785-11	MYLAR	0.47uF	10.00%	100V		C086	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C014	1-130-777-00	MYLAR	0.1uF	10.00%	100V		C087	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	
C016	1-164-217-11	CERAMIC CHIP	150PF	5.00%	50V		C088	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	
C017	1-110-624-51	ELECT	100uF	20.00%	100V								
C019	1-130-777-00	MYLAR	0.1uF	10.00%	100V				< CONNECTOR >				
C020	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	*	CN001	1-779-465-11	PIN, CONNECTOR (WITH PWB) 6P				
C021	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V		CN003	1-779-353-21	CONNECTOR, FFC/FPC 5P				
C022	1-162-921-11	CERAMIC CHIP	33PF	5%	50V		CN004	1-785-682-11	PIN, CONNECTOR (PC BOARD) 7P				
C024	1-164-217-11	CERAMIC CHIP	150PF	5.00%	50V		CN005	1-564-505-11	PLUG, CONNECTOR 2P				
C025	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V		CN006	1-691-768-11	PLUG (MICRO CONNECTOR) 6P				
C026	1-135-346-21	ELECT CHIP	39uF	20%	16V		CN007	1-564-505-11	PLUG, CONNECTOR 2P				
C027	1-128-401-11	ELECT CHIP	100uF	20.00%	25V								
C028	1-126-206-11	ELECT CHIP	100uF	20%	6.3V				< DIODE >				
C029	1-126-206-11	ELECT CHIP	100uF	20%	6.3V								
C030	1-164-217-11	CERAMIC CHIP	150PF	5.00%	50V		D002	8-719-085-23	DIODE SFPX-62				
C031	1-162-921-11	CERAMIC CHIP	33PF	5%	50V		D003	8-719-085-23	DIODE SFPX-62				
C032	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V		D004	8-719-085-23	DIODE SFPX-62				
C033	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V		D005	8-719-085-23	DIODE SFPX-62				
C034	1-127-711-11	ELECT	47uF	20%	200V		D007	8-719-085-23	DIODE SFPX-62				
C036	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V		D008	8-719-085-23	DIODE SFPX-62				
C037	1-126-601-11	ELECT CHIP	2.2uF	20%	50V		D011	8-719-422-46	DIODE MA8056-TX				
C038	1-136-189-00	MYLAR	0.1uF	10.00%	250V		D012	8-719-422-46	DIODE MA8056-TX				
C039	1-130-777-00	MYLAR	0.1uF	10.00%	100V		D023	6-500-255-01	DIODE P6SMB160AT3				
C040	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V		D024	6-500-255-01	DIODE P6SMB160AT3				
C041	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V		D025	6-500-255-01	DIODE P6SMB160AT3				
C043	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V		D026	6-500-255-01	DIODE P6SMB160AT3				
C044	1-128-403-11	ELECT CHIP	47uF	20.00%	35V		D027	8-719-084-91	DIODE RD43SB-T1				
C045	1-164-217-11	CERAMIC CHIP	150PF	5.00%	50V		D028	8-719-084-91	DIODE RD43SB-T1				
C046	1-164-816-11	CERAMIC CHIP	220PF	2.00%	50V		D032	8-719-988-61	DIODE 1SS355TE-17				
C047	1-164-816-11	CERAMIC CHIP	220PF	2.00%	50V								

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
D033	8-719-988-61	DIODE 1SS355TE-17		Q012	8-729-202-38	TRANSISTOR 2SC3326N-TE85L-AB	
D034	8-719-988-61	DIODE 1SS355TE-17		Q013	8-729-202-38	TRANSISTOR 2SC3326N-TE85L-AB	
D035	8-719-988-61	DIODE 1SS355TE-17		Q014	8-729-202-38	TRANSISTOR 2SC3326N-TE85L-AB	
		< PIN >		Q015	8-729-202-38	TRANSISTOR 2SC3326N-TE85L-AB	
				Q016	8-729-424-08	TRANSISTOR UN2111-TX	
EP001	1-537-770-21	TERMINAL BOARD, GROUND		Q017	8-729-424-08	TRANSISTOR UN2111-TX	
EP002	1-537-770-21	TERMINAL BOARD, GROUND				< RESISTOR >	
EP003	1-537-770-21	TERMINAL BOARD, GROUND					
EP004	1-537-770-21	TERMINAL BOARD, GROUND					
		< FUSE >		R001	1-216-833-11	METAL CHIP 10K 5% 1/16W	
				R002	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
△ F001	1-533-998-21	FUSE, (SMD)		R003	1-216-821-11	METAL CHIP 1K 5% 1/16W	
△ F002	1-533-998-21	FUSE, (SMD)		R004	1-216-835-11	METAL CHIP 15K 5% 1/16W	
△ F003	1-533-998-21	FUSE, (SMD)		R005	1-216-821-11	METAL CHIP 1K 5% 1/16W	
△ F004	1-533-998-21	FUSE, (SMD)					
△ F005	1-533-998-21	FUSE, (SMD)		R006	1-216-835-11	METAL CHIP 15K 5% 1/16W	
		< FERRITE BEAD >		R007	1-216-821-11	METAL CHIP 1K 5% 1/16W	
				R008	1-216-833-11	METAL CHIP 10K 5% 1/16W	
FB001	1-469-324-21	FERRITE 0UH		R009	1-216-835-11	METAL CHIP 15K 5% 1/16W	
FB002	1-412-390-21	INDUCTOR CHIP 0uH		R010	1-219-684-11	RES-CHIP 0.01 1% 1W	
FB003	1-412-390-21	INDUCTOR CHIP 0uH					
FB004	1-412-390-21	INDUCTOR CHIP 0uH		R011	1-216-821-11	METAL CHIP 1K 5% 1/16W	
FB005	1-412-390-21	INDUCTOR CHIP 0uH		R012	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
				R013	1-216-830-11	METAL CHIP 5.6K 5% 1/16W	
FB006	1-469-324-21	FERRITE 0UH		R014	1-216-830-11	METAL CHIP 5.6K 5% 1/16W	
FB007	1-469-324-21	FERRITE 0UH		R015	1-218-611-11	METAL CHIP 5.6 5% 1W	
FB008	1-469-324-21	FERRITE 0UH					
FB009	1-469-324-21	FERRITE 0UH		R016	1-216-853-11	METAL CHIP 470K 5% 1/16W	
		< IC >		R017	1-216-841-11	METAL CHIP 47K 5% 1/16W	
				R018	1-216-813-11	METAL CHIP 220 5% 1/16W	
IC001	8-759-711-85	IC NJM4580E-D-TE2		R019	1-216-833-11	METAL CHIP 10K 5% 1/16W	
IC002	8-759-111-68	IC uPC1237HA		R020	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
IC003	6-702-396-01	IC TA3020					
IC004	8-759-710-97	IC NJM4565M(TE2)		R021	1-216-821-11	METAL CHIP 1K 5% 1/16W	
IC006	8-759-052-52	IC NJM78M05DL1A-TE1		R022	1-216-821-11	METAL CHIP 1K 5% 1/16W	
				R023	1-218-611-11	METAL CHIP 5.6 5% 1W	
IC105	8-759-647-25	IC uPC29M10HF		R024	1-216-835-11	METAL CHIP 15K 5% 1/16W	
IC106	8-759-700-07	IC NJM2903M-TE2		R026	1-216-853-11	METAL CHIP 470K 5% 1/16W	
		< COIL >					
				R027	1-219-684-11	RES-CHIP 0.01 1% 1W	
L001	1-456-161-11	INDUCTOR 15uH		R029	1-216-821-11	METAL CHIP 1K 5% 1/16W	
L002	1-419-491-21	INDUCTOR 10uH		R031	1-216-841-11	METAL CHIP 47K 5% 1/16W	
L004	1-456-161-11	INDUCTOR 15uH		R032	1-216-841-11	METAL CHIP 47K 5% 1/16W	
L005	1-419-491-21	INDUCTOR 10uH		R033	1-216-821-11	METAL CHIP 1K 5% 1/16W	
		< TRANSISTOR >					
				R034	1-216-837-11	METAL CHIP 22K 5% 1/16W	
Q001	8-729-421-22	TRANSISTOR UN2211-TX		R035	1-216-829-11	METAL CHIP 4.7K 5% 1/16W	
Q002	6-550-212-01	TRANSISTOR STW34NB20		R036	1-216-829-11	METAL CHIP 4.7K 5% 1/16W	
Q003	6-550-212-01	TRANSISTOR STW34NB20		R037	1-216-829-11	METAL CHIP 4.7K 5% 1/16W	
Q004	6-550-212-01	TRANSISTOR STW34NB20		R038	1-216-829-11	METAL CHIP 4.7K 5% 1/16W	
Q005	6-550-212-01	TRANSISTOR STW34NB20					
Q006	8-729-025-04	TRANSISTOR 2SC3852A		R039	1-216-847-11	METAL CHIP 150K 5% 1/16W	
Q007	8-729-421-22	TRANSISTOR UN2211-TX		R040	1-216-823-11	METAL CHIP 1.5K 5% 1/16W	
Q009	8-729-271-31	TRANSISTOR 2SC2713G-TE85L		R042	1-216-841-11	METAL CHIP 47K 5% 1/16W	
Q010	8-729-021-82	TRANSISTOR 2SD2396K		R043	1-216-845-11	METAL CHIP 100K 5% 1/16W	
Q011	8-729-021-82	TRANSISTOR 2SD2396K		R044	1-218-636-91	METAL CHIP 680 5% 1W	
				R045	1-216-833-11	METAL CHIP 10K 5% 1/16W	
				R046	1-216-835-11	METAL CHIP 15K 5% 1/16W	
				R047	1-219-684-11	RES-CHIP 0.01 1% 1W	
				R048	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
				R049	1-216-841-11	METAL CHIP 47K 5% 1/16W	

△印の部品,または△印付きの点線で囲まれた部品は,安全性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下さい。

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和△标志来识别的零部件,在安全方面具有关键性。因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R050	1-216-837-11	METAL CHIP	22K	5%	1/16W	R134	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R051	1-218-611-11	METAL CHIP	5.6	5%	1W	R135	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R052	1-216-833-11	METAL CHIP	10K	5%	1/16W	R136	1-216-839-11	METAL CHIP	33K	5%	1/16W
R053	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R137	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R054	1-216-847-11	METAL CHIP	150K	5%	1/16W	R138	1-216-837-11	METAL CHIP	22K	5%	1/16W
R055	1-216-841-11	METAL CHIP	47K	5%	1/16W	R139	1-216-839-11	METAL CHIP	33K	5%	1/16W
R056	1-216-853-11	METAL CHIP	470K	5%	1/16W	R140	1-216-821-11	METAL CHIP	1K	5%	1/16W
R057	1-216-841-11	METAL CHIP	47K	5%	1/16W	R141	1-216-821-11	METAL CHIP	1K	5%	1/16W
R058	1-216-813-11	METAL CHIP	220	5%	1/16W	R142	1-216-837-11	METAL CHIP	22K	5%	1/16W
R059	1-216-835-11	METAL CHIP	15K	5%	1/16W	R143	1-216-837-11	METAL CHIP	22K	5%	1/16W
R061	1-216-832-11	METAL CHIP	8.2K	5%	1/16W	R144	1-216-833-11	METAL CHIP	10K	5%	1/16W
R064	1-218-611-11	METAL CHIP	5.6	5%	1W	R145	1-216-833-11	METAL CHIP	10K	5%	1/16W
R065	1-216-853-11	METAL CHIP	470K	5%	1/16W	R146	1-216-833-11	METAL CHIP	10K	5%	1/16W
R066	1-219-684-11	RES-CHIP	0.01	1%	1W	R147	1-216-833-11	METAL CHIP	10K	5%	1/16W
R070	1-216-834-11	METAL CHIP	12K	5%	1/16W	R148	1-216-833-11	METAL CHIP	10K	5%	1/16W
R074	1-220-223-11	RES-CHIP	15K	5%	1/2W	R149	1-216-833-11	METAL CHIP	10K	5%	1/16W
△ R081	1-211-775-11	FUSIBLE	10	5%	1/4W	R150	1-216-833-11	METAL CHIP	10K	5%	1/16W
△ R083	1-219-146-11	FUSIBLE	1	5%	1/10W	R151	1-216-833-11	METAL CHIP	10K	5%	1/16W
△ R084	1-219-146-11	FUSIBLE	1	5%	1/10W	R152	1-216-837-11	METAL CHIP	22K	5%	1/16W
△ R087	1-219-146-11	FUSIBLE	1	5%	1/10W	R155	1-216-821-11	METAL CHIP	1K	5%	1/16W
△ R088	1-219-146-11	FUSIBLE	1	5%	1/10W	R156	1-216-821-11	METAL CHIP	1K	5%	1/16W
△ R089	1-219-146-11	FUSIBLE	1	5%	1/10W	R160	1-216-837-11	METAL CHIP	22K	5%	1/16W
△ R090	1-219-146-11	FUSIBLE	1	5%	1/10W	R161	1-216-845-11	METAL CHIP	100K	5%	1/16W
△ R093	1-219-146-11	FUSIBLE	1	5%	1/10W	R162	1-216-845-11	METAL CHIP	100K	5%	1/16W
△ R094	1-219-146-11	FUSIBLE	1	5%	1/10W	< VARIABLE RESISTOR >					
R095	1-216-805-11	METAL CHIP	47	5%	1/16W	RV001	1-225-789-21	RES, ADJ, CERMET 2K			
R096	1-216-805-11	METAL CHIP	47	5%	1/16W	*****					
R100	1-216-833-11	METAL CHIP	10K	5%	1/16W	*	A-4591-403-A	PS BOARD, COMPLETE			
R101	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	*****					
R102	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R103	1-216-827-11	METAL CHIP	3.3K	5%	1/16W						
R104	1-216-833-11	METAL CHIP	10K	5%	1/16W	7-685-872-09 SCREW +BVTT 3X8 (S) (J)					
R105	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	< CAPACITOR >					
R106	1-216-835-11	METAL CHIP	15K	5%	1/16W	C801	1-131-967-11	ELECT	10000uF	20%	80V
R107	1-216-835-11	METAL CHIP	15K	5%	1/16W	C802	1-128-556-11	ELECT	1000uF	20.00%	63V
R108	1-216-830-11	METAL CHIP	5.6K	5%	1/16W	C803	1-137-401-11	MYLAR	0.22uF	10.00%	100V
R109	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	C804	1-137-401-11	MYLAR	0.22uF	10.00%	100V
R110	1-216-835-11	METAL CHIP	15K	5%	1/16W	C805	1-131-967-11	ELECT	10000uF	20%	80V
R111	1-216-835-11	METAL CHIP	15K	5%	1/16W	C806	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R112	1-216-830-11	METAL CHIP	5.6K	5%	1/16W	C807	1-126-944-11	ELECT	3300uF	20.00%	25V
R113	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	C808	1-119-939-51	ELECT	6800uF	20.00%	35V
R118	1-216-834-11	METAL CHIP	12K	5%	1/16W	C809	1-104-665-11	ELECT	100uF	20.00%	25V
R119	1-216-834-11	METAL CHIP	12K	5%	1/16W	C810	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R120	1-216-817-11	METAL CHIP	470	5%	1/16W	C811	1-126-953-11	ELECT	2200uF	20.00%	35V
R121	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	C812	1-104-665-11	ELECT	100uF	20.00%	25V
R122	1-216-821-11	METAL CHIP	1K	5%	1/16W	C813	1-126-947-11	ELECT	47uF	20.00%	35V
R123	1-216-833-11	METAL CHIP	10K	5%	1/16W	C814	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R125	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	C815	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
R126	1-216-821-11	METAL CHIP	1K	5%	1/16W	C816	1-115-785-11	ELECT	470uF	20.00%	25V
R127	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	C817	1-100-190-11	ELECT	33000uF	20%	25V
R128	1-216-837-11	METAL CHIP	22K	5%	1/16W	C818	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
R129	1-216-833-11	METAL CHIP	10K	5%	1/16W	C819	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
R131	1-216-837-11	METAL CHIP	22K	5%	1/16W	C820	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
R132	1-216-834-11	METAL CHIP	12K	5%	1/16W						
R133	1-216-821-11	METAL CHIP	1K	5%	1/16W						

△印の部品,または△印付きの点線で囲まれた部品は,
安全性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下さい。

The components identified by
mark △ or dotted line with mark
△ are critical for safety.
Replace only with part number
specified.

Les composants identifiés par
une marque △ sont critiques
pour la sécurité.
Ne les remplacer que par une
pièce portant le numéro spécifié.

以阴影和△标志来识别的零
部件,在安全方面具有关键
性,因此只能以规定号码的
零部件来更换。

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C822	1-117-208-11	ELECT	22000uF 20.00% 25V	D833	8-719-422-46	DIODE MA8056-TX	
C823	1-137-401-11	MYLAR	0.22uF 10.00% 100V	D834	8-719-422-46	DIODE MA8056-TX	
C824	1-137-401-11	MYLAR	0.22uF 10.00% 100V	D835	8-719-017-58	DIODE MA8068-TX	
C825	1-127-498-00	ELECT	15uF 20.00% 16V	D836	8-719-017-58	DIODE MA8068-TX	
C826	1-126-965-91	ELECT	22uF 20.00% 50V			< PIN >	
C827	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	EP801	1-537-770-21	TERMINAL BOARD, GROUND	
C828	1-126-943-11	ELECT	2200uF 20.00% 25V	EP802	1-537-770-21	TERMINAL BOARD, GROUND	
C830	1-127-498-00	ELECT	15uF 20.00% 16V			< IC >	
C831	1-126-965-91	ELECT	22uF 20.00% 50V	IC801	8-759-982-15	IC NJM7815FA	
C833	1-104-665-11	ELECT	100uF 20.00% 25V	IC802	8-759-701-89	IC NJM7915FA	
C834	1-128-581-11	ELECT	4.7uF 20.00% 100V	IC803	8-759-487-20	IC PST9330UL	
C835	1-126-943-11	ELECT	2200uF 20.00% 25V	IC804	8-759-688-68	IC LM2596T-ADJ	
C836	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	IC806	8-759-450-47	IC BA05T	
C837	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V	IC807	8-759-394-36	IC BA09T	
C838	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V			< COIL >	
C839	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	L801	1-406-975-21	INDUCTOR 47uH	
C840	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V			< TRANSISTOR >	
C841	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V	Q801	8-729-021-82	TRANSISTOR 2SD2396K	
C842	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V	Q802	8-729-202-38	TRANSISTOR 2SC3326N-TE85L-AB	
		< CONNECTOR >		Q803	8-729-421-22	TRANSISTOR UN2211-TX	
* CN801	1-779-658-11	PIN, CONNECTOR (PC BOARD) 4P		Q804	8-729-202-38	TRANSISTOR 2SC3326N-TE85L-AB	
CN802	1-778-293-11	PLUG (MICRO CONNECTOR) 2P		Q805	8-729-424-73	TRANSISTOR UN2219-TX	
CN803	1-778-293-11	PLUG (MICRO CONNECTOR) 2P		Q806	8-729-021-82	TRANSISTOR 2SD2396K	
* CN804	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P		Q807	8-729-424-08	TRANSISTOR UN2111-TX	
* CN805	1-779-465-11	PIN, CONNECTOR (WITH PWB) 6P		Q808	8-729-421-22	TRANSISTOR UN2211-TX	
CN806	1-691-769-11	PLUG (MICRO CONNECTOR) 7P		Q809	8-729-424-08	TRANSISTOR UN2111-TX	
CN807	1-568-830-11	CONNECTOR, FFC 11P		Q810	8-729-421-22	TRANSISTOR UN2211-TX	
CN808	1-564-505-31	PLUG, CONNECTOR 2P				< RESISTOR >	
CN809	1-564-505-11	PLUG, CONNECTOR 2P		R801	1-218-867-11	METAL CHIP 6.8K 5% 1/10W	
		< DIODE >		R802	1-216-833-11	METAL CHIP 10K 5% 1/16W	
D802	8-719-048-35	DIODE MA8150-L-TX		R803	1-216-833-11	METAL CHIP 10K 5% 1/16W	
D803	8-719-048-35	DIODE MA8150-L-TX		R804	1-216-833-11	METAL CHIP 10K 5% 1/16W	
D804	8-719-037-38	DIODE RD18SB1-T1		R805	1-216-809-11	METAL CHIP 100 5% 1/16W	
D806	8-719-988-61	DIODE 1SS355TE-17		R807	1-216-829-11	METAL CHIP 4.7K 5% 1/16W	
D807	8-719-053-18	DIODE 1SR154-400TE-25		R808	1-216-845-11	METAL CHIP 100K 5% 1/16W	
D808	8-719-053-18	DIODE 1SR154-400TE-25		R809	1-218-837-11	METAL CHIP 390 0.5% 1/10W	
D809	8-719-988-61	DIODE 1SS355TE-17		R810	1-218-849-11	METAL CHIP 1.2K 0.5% 1/10W	
D810	8-719-988-61	DIODE 1SS355TE-17		R811	1-216-849-11	METAL CHIP 220K 5% 1/16W	
D811	8-719-988-61	DIODE 1SS355TE-17		R812	1-216-821-11	METAL CHIP 1K 5% 1/16W	
D812	8-719-048-35	DIODE MA8150-L-TX		R813	1-216-815-11	METAL CHIP 330 5% 1/16W	
D813	8-719-988-61	DIODE 1SS355TE-17		R814	1-216-815-11	METAL CHIP 330 5% 1/16W	
D814	8-719-988-61	DIODE 1SS355TE-17		R817	1-216-833-11	METAL CHIP 10K 5% 1/16W	
D815	8-719-988-61	DIODE 1SS355TE-17		R818	1-216-838-11	METAL CHIP 27K 5% 1/16W	
D818	8-719-988-61	DIODE 1SS355TE-17		△ R819	1-211-775-11	FUSIBLE 10 5% 1/4W	
D820	8-719-053-18	DIODE 1SR154-400TE-25		R820	1-216-833-11	METAL CHIP 10K 5% 1/16W	
D821	8-719-080-03	DIODE RB083L-20TE25		R821	1-216-833-11	METAL CHIP 10K 5% 1/16W	
D822	8-719-033-58	DIODE RBV-1506		R822	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
D823	8-719-988-61	DIODE 1SS355TE-17		R824	1-216-833-11	METAL CHIP 10K 5% 1/16W	
D825	8-719-053-18	DIODE 1SR154-400TE-25				△印の部品,または△印付きの点線で囲まれた部品は,安全性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下さい。	
D826	8-719-053-18	DIODE 1SR154-400TE-25					
D827	8-719-053-18	DIODE 1SR154-400TE-25					
D828	8-719-053-18	DIODE 1SR154-400TE-25					
D829	8-719-053-18	DIODE 1SR154-400TE-25					
D830	8-719-053-18	DIODE 1SR154-400TE-25					
D831	8-719-422-46	DIODE MA8056-TX					

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和△标志来识别的零部件,在安全方面具有关键性。因此只能以规定号码的零部件来更换。

PS

PSW

REMOTE

Ref. No.	Part No.	Description	Remarks
R825	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R826	1-216-820-11	METAL CHIP 820 5%	1/16W
R827	1-216-821-11	METAL CHIP 1K 5%	1/16W
R828	1-216-818-11	METAL CHIP 560 5%	1/16W
R829	1-216-821-11	METAL CHIP 1K 5%	1/16W

< THERMISTOR(POSITIVE) >

△ THP802	1-801-826-21	THERMISTOR, POSITIVE (RXE075)
△ THP803	1-803-314-11	THERMISTOR, POSITIVE (RUE185)
△ THP804	1-803-638-11	THERMISTOR, POSITIVE (RUE400)
△ THP805	1-801-826-21	THERMISTOR, POSITIVE (RXE075)
△ THP806	1-801-826-21	THERMISTOR, POSITIVE (RXE075)

PSW BOARD

< CAPACITOR >

C001	1-117-703-11	CERAMIC 0.0047uF 99%	250V
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< CONNECTOR >

* CN001	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P
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< SWITCH >

△ S001	1-771-187-11	SWITCH, AC POWER (POWER)
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*	A-4591-411-A	REMOTE BOARD, COMPLETE
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< CAPACITOR >

C101	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V (J)
C102	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V (J)
C103	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V (J)
C104	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V (J)
C105	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V (J)
C106	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V (J)
C107	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V (J)
C108	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V (J)
C109	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V (J)
C110	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V (J)
C111	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V (J)
C112	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V (J)
C113	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V (J)
C114	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V (J)
C115	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V (J)
C116	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V (J)
C117	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V
C118	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V
C120	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V (J)
C121	1-104-665-11	ELECT 100uF 20.00%	25V
C122	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V (J)
C123	1-104-665-11	ELECT 100uF 20.00%	25V
C124	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V (J)
C125	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V (J)
C126	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V

Ref. No.	Part No.	Description	Remarks
C131	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C132	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V

< CONNECTOR >

CN101	1-815-194-11	CONNECTOR, USB (B) (USB)
CN102	1-568-426-11	CONNECTOR, D-SUB 9P (RS-232C)
CN103	1-568-426-11	CONNECTOR, D-SUB 9P (RS-232C)
CN104	1-774-519-11	CONNECTOR, (D) SUB (SOCKET)25P(PARALLEL)
CN105	1-569-339-11	CONNECTOR, BOARD TO BOARD 7P
CN106	1-784-753-11	CONNECTOR, FFC 31P

< DIODE >

D101	8-719-941-09	DIODE DAP202UT106
D102	8-719-941-09	DIODE DAP202UT106
D103	8-719-941-09	DIODE DAP202UT106
D104	8-719-941-09	DIODE DAP202UT106
D105	8-719-941-09	DIODE DAP202UT106
D106	8-719-941-09	DIODE DAP202UT106
D111	8-719-048-35	DIODE MA8150-L-TX
D112	8-719-048-35	DIODE MA8150-L-TX
D113	8-719-048-35	DIODE MA8150-L-TX
D114	8-719-048-35	DIODE MA8150-L-TX
D115	8-719-048-35	DIODE MA8150-L-TX
D116	8-719-048-35	DIODE MA8150-L-TX
D117	8-719-048-35	DIODE MA8150-L-TX
D118	8-719-048-35	DIODE MA8150-L-TX
D119	8-719-048-35	DIODE MA8150-L-TX
D120	8-719-048-35	DIODE MA8150-L-TX
D121	8-719-048-35	DIODE MA8150-L-TX
D122	8-719-048-35	DIODE MA8150-L-TX
D123	8-719-048-35	DIODE MA8150-L-TX
D124	8-719-048-35	DIODE MA8150-L-TX
D125	8-719-048-35	DIODE MA8150-L-TX
D126	8-719-048-35	DIODE MA8150-L-TX
D128	8-719-422-46	DIODE MA8056-TX
D130	8-719-422-46	DIODE MA8056-TX
D131	8-719-988-61	DIODE 1SS355TE-17
D132	8-719-988-61	DIODE 1SS355TE-17
D133	8-719-988-61	DIODE 1SS355TE-17
D134	8-719-988-61	DIODE 1SS355TE-17
D135	8-719-988-61	DIODE 1SS355TE-17
D136	8-719-941-09	DIODE DAP202UT106
D137	8-719-941-86	DIODE DAN202UT106
D138	8-719-941-09	DIODE DAP202UT106
D139	8-719-941-86	DIODE DAN202UT106
D140	8-719-941-09	DIODE DAP202UT106
D141	8-719-941-86	DIODE DAN202UT106
D142	8-719-941-09	DIODE DAP202UT106
D143	8-719-941-86	DIODE DAN202UT106
D144	8-719-941-09	DIODE DAP202UT106
D145	8-719-941-86	DIODE DAN202UT106
D146	8-719-941-09	DIODE DAP202UT106

△印の部品,または△印付きの点線で囲まれた部品は,安全性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下さい。

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和△标志来识别的零部件,在安全方面具有关键性。因此只能以规定号码的零部件来更换。

REMOTE

SPK

Ref. No.	Part No.	Description	Remarks			
D147	8-719-941-86	DIODE DAN202UT106				
D148	8-719-988-61	DIODE 1SS355TE-17				
D149	8-719-988-61	DIODE 1SS355TE-17				
D150	8-719-988-61	DIODE 1SS355TE-17				
D151	8-719-988-61	DIODE 1SS355TE-17				
D152	8-719-988-61	DIODE 1SS355TE-17				
D153	8-719-422-46	DIODE MA8056-TX				
< FERRITE BEAD >						
FB003	1-216-864-11	METAL CHIP	0	5%	1/16W	
FB004	1-216-864-11	METAL CHIP	0	5%	1/16W	
< IC >						
IC101	8-759-011-64	IC TC74HC4052AF(EL)				
IC102	8-759-011-64	IC TC74HC4052AF(EL)				
IC103	8-759-186-23	IC TC74VHC595F(EL)				
IC104	8-759-186-23	IC TC74VHC595F(EL)				
< COIL >						
L210	1-412-031-11	INDUCTOR CHIP	47uH (J)			
< TRANSISTOR >						
Q101	8-729-424-73	TRANSISTOR	UN2219-TX			
Q102	8-729-424-73	TRANSISTOR	UN2219-TX			
Q103	8-729-424-73	TRANSISTOR	UN2219-TX			
Q104	8-729-424-73	TRANSISTOR	UN2219-TX			
Q105	8-729-424-73	TRANSISTOR	UN2219-TX			
Q106	8-729-424-73	TRANSISTOR	UN2219-TX			
Q107	8-729-424-73	TRANSISTOR	UN2219-TX			
Q108	8-729-424-73	TRANSISTOR	UN2219-TX			
Q109	8-729-424-73	TRANSISTOR	UN2219-TX			
Q110	8-729-424-73	TRANSISTOR	UN2219-TX			
< RESISTOR >						
R101	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
						(J)
R102	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R103	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R104	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R105	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R106	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R107	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R108	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R109	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
						(J)
R110	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R111	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R112	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R113	1-216-797-11	METAL CHIP	10	5%	1/16W	
R114	1-216-797-11	METAL CHIP	10	5%	1/16W	
R115	1-216-797-11	METAL CHIP	10	5%	1/16W	
R116	1-216-797-11	METAL CHIP	10	5%	1/16W	
R117	1-216-797-11	METAL CHIP	10	5%	1/16W	
R118	1-216-797-11	METAL CHIP	10	5%	1/16W	
R119	1-216-797-11	METAL CHIP	10	5%	1/16W	
R120	1-216-797-11	METAL CHIP	10	5%	1/16W	
R121	1-216-797-11	METAL CHIP	10	5%	1/16W	
R122	1-216-797-11	METAL CHIP	10	5%	1/16W	
R123	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R124	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R125	1-216-837-11	METAL CHIP	22K	5%	1/16W	

Ref. No.	Part No.	Description	Remarks			
R126	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R127	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R128	1-216-837-11	METAL CHIP	22K	5%	1/16W	
						(J)
R129	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R130	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R131	1-216-837-11	METAL CHIP	22K	5%	1/16W	
						(J)
R132	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R133	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R134	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R135	1-216-834-11	METAL CHIP	12K	5%	1/16W	
R136	1-216-834-11	METAL CHIP	12K	5%	1/16W	
R137	1-216-834-11	METAL CHIP	12K	5%	1/16W	
R138	1-216-834-11	METAL CHIP	12K	5%	1/16W	
R139	1-216-834-11	METAL CHIP	12K	5%	1/16W	
R140	1-216-834-11	METAL CHIP	12K	5%	1/16W	
R141	1-216-834-11	METAL CHIP	12K	5%	1/16W	
R142	1-216-834-11	METAL CHIP	12K	5%	1/16W	
R143	1-216-834-11	METAL CHIP	12K	5%	1/16W	
R144	1-216-834-11	METAL CHIP	12K	5%	1/16W	
R145	1-216-834-11	METAL CHIP	12K	5%	1/16W	
R146	1-216-834-11	METAL CHIP	12K	5%	1/16W	
R147	1-216-809-11	METAL CHIP	100	5%	1/16W	
R148	1-216-809-11	METAL CHIP	100	5%	1/16W	
R149	1-216-815-11	METAL CHIP	330	5%	1/16W	
R150	1-216-809-11	METAL CHIP	100	5%	1/16W	
R152	1-216-809-11	METAL CHIP	100	5%	1/16W	
R153	1-216-809-11	METAL CHIP	100	5%	1/16W	
R154	1-216-815-11	METAL CHIP	330	5%	1/16W	
R155	1-216-809-11	METAL CHIP	100	5%	1/16W	
						(J)
R157	1-216-793-11	METAL CHIP	4.7	5%	1/10W	
R158	1-216-793-11	METAL CHIP	4.7	5%	1/10W	
R159	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R162	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R163	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R170	1-216-811-11	METAL CHIP	150	5%	1/16W	
R171	1-216-811-11	METAL CHIP	150	5%	1/16W	

SPK BOARD						

< CAPACITOR >						
C001	1-136-191-11	MYLAR	0.22uF	10.00%	250V	
C002	1-136-191-11	MYLAR	0.22uF	10.00%	250V	
C003	1-136-191-11	MYLAR	0.22uF	10.00%	250V	
C004	1-136-191-11	MYLAR	0.22uF	10.00%	250V	
C007	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C008	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
< CONNECTOR >						
CN001	1-537-865-11	TERMINAL (M3)				
CN002	1-537-865-11	TERMINAL (M3)				
CN007	1-785-682-11	PIN, CONNECTOR (PC BOARD) 7P				
CN008	1-694-814-11	TERMINAL BOARD, SPEAKER (SPEAKERS)				
< DIODE >						
D001	8-719-988-61	DIODE 1SS355TE-17				
D002	8-719-988-61	DIODE 1SS355TE-17				

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
< FERRITE BEAD >						C531	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
FB001	1-410-397-21	FERRITE BEAD INDUCTOR				C532	1-126-965-91	ELECT	22uF	20.00%	50V
		FERRITE BEAD INDUCTOR				C533	1-126-965-91	ELECT	22uF	20.00%	50V
		FERRITE BEAD INDUCTOR				C534	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
		FERRITE BEAD INDUCTOR				C535	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
< RESISTOR >						C536	1-126-965-91	ELECT	22uF	20.00%	50V
△ R001	1-215-909-11	METAL OXIDE	47	5%	3W	C537	1-126-965-91	ELECT	22uF	20.00%	50V
△ R002	1-215-909-11	METAL OXIDE	47	5%	3W	C538	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
△ R003	1-215-909-11	METAL OXIDE	47	5%	3W	C539	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
△ R004	1-215-909-11	METAL OXIDE	47	5%	3W	C540	1-126-965-91	ELECT	22uF	20.00%	50V
△ R005	1-215-909-11	METAL OXIDE	47	5%	3W	C541	1-126-965-91	ELECT	22uF	20.00%	50V
△ R006	1-215-909-11	METAL OXIDE	47	5%	3W	C542	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
					C543	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V	
					C544	1-126-965-91	ELECT	22uF	20.00%	50V	
					C545	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
< RELAY >						C546	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
RY001	1-755-141-11	RELAY				C547	1-126-965-91	ELECT	22uF	20.00%	50V
RY002	1-755-141-11	RELAY				C548	1-126-965-91	ELECT	22uF	20.00%	50V
*****						C549	1-126-965-91	ELECT	22uF	20.00%	50V
*	A-4591-406-A	STIN BOARD, COMPLETE				C550	1-126-965-91	ELECT	22uF	20.00%	50V
		*****				C551	1-126-965-91	ELECT	22uF	20.00%	50V
					C552	1-126-965-91	ELECT	22uF	20.00%	50V	
					C553	1-104-665-11	ELECT	100uF	20.00%	25V	
< CAPACITOR >						C554	1-104-665-11	ELECT	100uF	20.00%	25V
C501	1-126-965-91	ELECT	22uF	20.00%	50V	C555	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C502	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V	C556	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C503	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V						
C504	1-126-965-91	ELECT	22uF	20.00%	50V						
C505	1-126-965-91	ELECT	22uF	20.00%	50V						
C506	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V	C557	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C507	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V	C558	1-104-665-11	ELECT	100uF	20.00%	25V
C508	1-126-965-91	ELECT	22uF	20.00%	50V	C559	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C509	1-126-965-91	ELECT	22uF	20.00%	50V	C560	1-126-962-11	ELECT	3.3uF	20.00%	50V
C510	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V	C561	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C511	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V	C562	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
		ELECT	22uF	20.00%	50V	C570	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
		ELECT	22uF	20.00%	50V	C571	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		ELECT	22uF	20.00%	50V	C572	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C512	1-126-965-91	ELECT	22uF	20.00%	50V	C573	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C513	1-126-965-91	ELECT	22uF	20.00%	50V						
C514	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V						
C515	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V						
C516	1-126-965-91	ELECT	22uF	20.00%	50V	C574	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C517	1-126-965-91	ELECT	22uF	20.00%	50V	C575	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C518	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V	C576	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C519	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V	C577	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C520	1-126-965-91	ELECT	22uF	20.00%	50V	< CONNECTOR >					
C521	1-126-965-91	ELECT	22uF	20.00%	50V	CN501	1-784-737-11	CONNECTOR, FFC 15P			
		ELECT	22uF	20.00%	50V	CN502	1-569-336-11	CONNECTOR, BOARD TO BOARD 7P			
C522	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V	< DIODE >					
C523	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V	D501	8-719-941-86	DIODE	DAN202UT106		
C524	1-126-965-91	ELECT	22uF	20.00%	50V	D502	8-719-941-86	DIODE	DAN202UT106		
C525	1-126-965-91	ELECT	22uF	20.00%	50V	D503	8-719-941-86	DIODE	DAN202UT106		
C526	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V	D504	8-719-941-86	DIODE	DAN202UT106		
		CERAMIC CHIP	470PF	5.00%	50V	D505	8-719-941-86	DIODE	DAN202UT106		
		ELECT	22uF	20.00%	50V						
		ELECT	22uF	20.00%	50V						
C530	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V						

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The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.	以阴影和△标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。
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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
D506	8-719-941-86	DIODE DAN202UT106		Q511	8-729-424-08	TRANSISTOR UN2111-TX	
D507	8-719-941-86	DIODE DAN202UT106		Q512	8-729-421-19	TRANSISTOR UN2213-TX	
D508	8-719-941-86	DIODE DAN202UT106				< RESISTOR >	
D509	8-719-941-86	DIODE DAN202UT106					
D510	8-719-941-86	DIODE DAN202UT106					
				R501	1-216-809-11	METAL CHIP 100 5%	1/16W
D511	8-719-941-86	DIODE DAN202UT106		R504	1-216-821-11	METAL CHIP 1K 5%	1/16W
D512	8-719-941-86	DIODE DAN202UT106		R505	1-216-835-11	METAL CHIP 15K 5%	1/16W
D513	8-719-941-86	DIODE DAN202UT106		R508	1-216-821-11	METAL CHIP 1K 5%	1/16W
D514	8-719-941-86	DIODE DAN202UT106		R510	1-216-835-11	METAL CHIP 15K 5%	1/16W
D515	8-719-941-86	DIODE DAN202UT106					
				R512	1-216-809-11	METAL CHIP 100 5%	1/16W
D516	8-719-941-86	DIODE DAN202UT106		R513	1-216-809-11	METAL CHIP 100 5%	1/16W
D517	8-719-941-86	DIODE DAN202UT106		R514	1-216-841-11	METAL CHIP 47K 5%	1/16W
D518	8-719-941-86	DIODE DAN202UT106		R515	1-216-841-11	METAL CHIP 47K 5%	1/16W
D519	8-719-941-86	DIODE DAN202UT106		R516	1-216-809-11	METAL CHIP 100 5%	1/16W
D520	8-719-941-86	DIODE DAN202UT106					
				R517	1-216-809-11	METAL CHIP 100 5%	1/16W
D521	8-719-941-86	DIODE DAN202UT106		R518	1-216-841-11	METAL CHIP 47K 5%	1/16W
D522	8-719-941-86	DIODE DAN202UT106		R519	1-216-841-11	METAL CHIP 47K 5%	1/16W
D523	8-719-988-61	DIODE 1SS355TE-17		R520	1-216-809-11	METAL CHIP 100 5%	1/16W
D524	8-719-988-61	DIODE 1SS355TE-17					(J)
D525	8-719-988-61	DIODE 1SS355TE-17		R521	1-216-809-11	METAL CHIP 100 5%	1/16W
							(J)
D526	8-719-988-61	DIODE 1SS355TE-17					
D527	8-719-988-61	DIODE 1SS355TE-17		R522	1-216-841-11	METAL CHIP 47K 5%	1/16W
D528	8-719-988-61	DIODE 1SS355TE-17		R523	1-216-841-11	METAL CHIP 47K 5%	1/16W
D529	8-719-988-61	DIODE 1SS355TE-17		R524	1-216-809-11	METAL CHIP 100 5%	1/16W
D530	8-719-988-61	DIODE 1SS355TE-17		R525	1-216-809-11	METAL CHIP 100 5%	1/16W
				R526	1-216-841-11	METAL CHIP 47K 5%	1/16W
		< IC >					
IC501	8-759-711-85	IC NJM4580E-D-TE2		R527	1-216-841-11	METAL CHIP 47K 5%	1/16W
IC502	8-759-655-96	IC TC9163AF		R528	1-216-809-11	METAL CHIP 100 5%	1/16W
IC503	8-759-711-85	IC NJM4580E-D-TE2		R529	1-216-809-11	METAL CHIP 100 5%	1/16W
IC504	8-759-655-96	IC TC9163AF		R530	1-216-841-11	METAL CHIP 47K 5%	1/16W
IC505	8-759-711-85	IC NJM4580E-D-TE2		R531	1-216-841-11	METAL CHIP 47K 5%	1/16W
IC506	8-759-711-85	IC NJM4580E-D-TE2		R532	1-216-809-11	METAL CHIP 100 5%	1/16W
				R533	1-216-809-11	METAL CHIP 100 5%	1/16W
		< JACK >		R534	1-216-841-11	METAL CHIP 47K 5%	1/16W
				R535	1-216-841-11	METAL CHIP 47K 5%	1/16W
J501	1-784-429-11	JACK, PIN 4P (LINE3 IN/LINE4 INPUT A)		R536	1-216-809-11	METAL CHIP 100 5%	1/16W
J502	1-784-429-11	JACK, PIN 4P (LINE4 INPUT B,C)					
J503	1-785-536-11	JACK, PIN (6P) (LINE4 INPUT D)		R537	1-216-809-11	METAL CHIP 100 5%	1/16W
J504	1-785-536-11	JACK, PIN (6P) (LINE4 INPUT E)		R538	1-216-841-11	METAL CHIP 47K 5%	1/16W
J505	1-785-868-11	JACK, PIN 2P (LINE4 INPUT F)		R539	1-216-841-11	METAL CHIP 47K 5%	1/16W
				R540	1-216-809-11	METAL CHIP 100 5%	1/16W
							(J)
J506	1-565-790-41	JACK, SMALL TYPE 2P (CONTROL S OUT 1,2)		R541	1-216-809-11	METAL CHIP 100 5%	1/16W
J507	1-565-790-41	JACK, SMALL TYPE 2P (CONTROL S OUT 3,4)					(J)
J508	1-565-790-41	JACK, SMALL TYPE 2P	(PROJECTOR CONTROL)				
				R542	1-216-841-11	METAL CHIP 47K 5%	1/16W
		< COIL >		R543	1-216-841-11	METAL CHIP 47K 5%	1/16W
				R544	1-216-809-11	METAL CHIP 100 5%	1/16W
							(J)
L501	1-412-031-11	INDUCTOR CHIP 47uH		R545	1-216-809-11	METAL CHIP 100 5%	1/16W
							(J)
		< TRANSISTOR >		R546	1-216-841-11	METAL CHIP 47K 5%	1/16W
Q501	8-729-800-71	TRANSISTOR 2SB1295-UL6-TB		R547	1-216-841-11	METAL CHIP 47K 5%	1/16W
Q502	8-729-421-19	TRANSISTOR UN2213-TX		R548	1-216-809-11	METAL CHIP 100 5%	1/16W
Q503	8-729-800-71	TRANSISTOR 2SB1295-UL6-TB					(J)
Q504	8-729-421-19	TRANSISTOR UN2213-TX		R549	1-216-809-11	METAL CHIP 100 5%	1/16W
Q505	8-729-800-71	TRANSISTOR 2SB1295-UL6-TB					(J)
				R550	1-216-841-11	METAL CHIP 47K 5%	1/16W
Q506	8-729-421-19	TRANSISTOR UN2213-TX		R551	1-216-841-11	METAL CHIP 47K 5%	1/16W
Q507	8-729-800-71	TRANSISTOR 2SB1295-UL6-TB					
Q508	8-729-421-19	TRANSISTOR UN2213-TX		R552	1-216-809-11	METAL CHIP 100 5%	1/16W
Q509	8-729-421-19	TRANSISTOR UN2213-TX		R554	1-216-835-11	METAL CHIP 15K 5%	1/16W
Q510	8-729-421-19	TRANSISTOR UN2213-TX		R556	1-216-821-11	METAL CHIP 1K 5%	1/16W
				R559	1-216-821-11	METAL CHIP 1K 5%	1/16W
				R561	1-216-835-11	METAL CHIP 15K 5%	1/16W

Ref. No.	Part No.	Description	Remarks
R564	1-216-835-11	METAL CHIP	15K 5% 1/16W
R566	1-216-821-11	METAL CHIP	1K 5% 1/16W
R569	1-216-821-11	METAL CHIP	1K 5% 1/16W
R571	1-216-835-11	METAL CHIP	15K 5% 1/16W
R574	1-216-835-11	METAL CHIP	15K 5% 1/16W
R576	1-216-821-11	METAL CHIP	1K 5% 1/16W
R579	1-216-821-11	METAL CHIP	1K 5% 1/16W
R581	1-216-835-11	METAL CHIP	15K 5% 1/16W
R583	1-216-804-11	METAL CHIP	39 5% 1/16W
R584	1-216-841-11	METAL CHIP	47K 5% 1/16W
R585	1-216-804-11	METAL CHIP	39 5% 1/16W
R586	1-216-841-11	METAL CHIP	47K 5% 1/16W
R587	1-216-804-11	METAL CHIP	39 5% 1/16W
R588	1-216-841-11	METAL CHIP	47K 5% 1/16W
R589	1-216-804-11	METAL CHIP	39 5% 1/16W
R590	1-216-841-11	METAL CHIP	47K 5% 1/16W
R591	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
R592	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
R593	1-216-815-11	METAL CHIP	330 5% 1/16W
R594	1-216-841-11	METAL CHIP	47K 5% 1/16W
R601	1-216-821-11	METAL CHIP	1K 5% 1/16W
R602	1-216-821-11	METAL CHIP	1K 5% 1/16W
R603	1-216-804-11	METAL CHIP	39 5% 1/16W
R604	1-216-821-11	METAL CHIP	1K 5% 1/16W
R605	1-216-821-11	METAL CHIP	1K 5% 1/16W
R606	1-216-804-11	METAL CHIP	39 5% 1/16W
R607	1-216-821-11	METAL CHIP	1K 5% 1/16W
R608	1-216-821-11	METAL CHIP	1K 5% 1/16W
R609	1-216-804-11	METAL CHIP	39 5% 1/16W
R610	1-216-821-11	METAL CHIP	1K 5% 1/16W
R611	1-216-821-11	METAL CHIP	1K 5% 1/16W
R612	1-216-804-11	METAL CHIP	39 5% 1/16W

* A-4591-401-A S VIDEO BOARD, COMPLETE

< CAPACITOR >

C651	1-124-779-00	ELECT CHIP	10uF	20%	16V
C652	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C653	1-124-779-00	ELECT CHIP	10uF	20%	16V
C654	1-124-779-00	ELECT CHIP	10uF	20%	16V
C655	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C657	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C658	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C659	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C660	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C661	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C662	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C663	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C664	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C665	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C666	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C668	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C669	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C670	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C671	1-124-779-00	ELECT CHIP	10uF	20%	16V
C672	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C673	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C674	1-135-347-21	ELECT CHIP	82uF	20%	16V

Ref. No.	Part No.	Description	Remarks
< CONNECTOR >			
CN652	1-566-847-41	CONNECTOR, (S) TERMINAL 4P (S VIDEO A)	
CN653	1-566-847-41	CONNECTOR, (S) TERMINAL 4P (S VIDEO B)	
CN654	1-779-935-11	CONNECTOR, FFC/FPC 9P	
CN655	1-566-847-41	CONNECTOR, (S) TERMINAL 4P (S VIDEO C)	
< DIODE >			
D651	8-719-941-09	DIODE DAP202UT106	
D652	8-719-941-09	DIODE DAP202UT106	
D653	8-719-941-09	DIODE DAP202UT106	
D654	8-719-941-09	DIODE DAP202UT106	
D655	8-719-941-09	DIODE DAP202UT106	
D656	8-719-941-09	DIODE DAP202UT106	
☆ D657	8-719-048-35	DIODE MA8150-L-TX	
☆ D658	8-719-048-35	DIODE MA8150-L-TX	
☆ D659	8-719-048-35	DIODE MA8150-L-TX	
☆ D660	8-719-048-35	DIODE MA8150-L-TX	
☆ D661	8-719-048-35	DIODE MA8150-L-TX	
☆ D662	8-719-048-35	DIODE MA8150-L-TX	
< IC >			
IC651	8-759-710-62	IC NJM2246M(TE2)	
IC652	8-759-266-06	IC NJM2243M(TE2)	
IC653	8-759-358-46	IC NJM2245M-TE2	
IC654	8-759-266-06	IC NJM2243M(TE2)	
< RESISTOR >			
R651	1-218-285-11	METAL CHIP	75 5% 1/10W
R652	1-218-285-11	METAL CHIP	75 5% 1/10W
R653	1-216-807-11	METAL CHIP	68 5% 1/16W
R654	1-218-285-11	METAL CHIP	75 5% 1/10W
R657	1-218-285-11	METAL CHIP	75 5% 1/10W
R659	1-216-807-11	METAL CHIP	68 5% 1/16W
R661	1-218-285-11	METAL CHIP	75 5% 1/10W
R662	1-218-285-11	METAL CHIP	75 5% 1/10W

* A-4591-419-A TUNER BOARD, COMPLETE

< CAPACITOR >

C031	1-104-665-11	ELECT	100uF	20.00%	25V
C032	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C033	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C034	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C035	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C037	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C038	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C039	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C040	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C041	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C043	1-127-498-00	ELECT	15uF	20.00%	16V
C044	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C045	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C046	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C047	1-162-927-11	CERAMIC CHIP	100PF	5%	50V

☆ 下記シリアルNo.のみ RD15ESB1 8-719-110-39 を使用します。
RD15ESB1 8-719-110-39 is used only in the following serial numbers.

S/N 200001 ~ 200020

S/N 300001 ~ 300150

S/N 400001 ~ 400100

TUNER

USB

VIDEO

Ref. No.	Part No.	Description	Remarks
C048	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C049	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C050	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C051	1-164-315-11	CERAMIC CHIP 470PF 5.00%	50V
C052	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C053	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C054	1-164-315-11	CERAMIC CHIP 470PF 5.00%	50V
C055	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V
C056	1-104-665-11	ELECT 100uF 20.00%	25V

< CONNECTOR >

CN031	1-568-548-11	JACK, MINIATURE PIN (ANT IN b)
CN032	1-568-548-11	JACK, MINIATURE PIN (ANT IN a)
CN033	1-569-668-11	CONNECTOR, BOARD TO BOARD 10P
CN034	1-569-668-11	CONNECTOR, BOARD TO BOARD 10P
CN035	1-691-768-11	PLUG (MICRO CONNECTOR) 6P

< DIODE >

D031	8-719-080-03	DIODE RB083L-20TE25
D032	8-719-080-03	DIODE RB083L-20TE25

< FERRITE BEAD >

FB031	1-400-040-22	FERRITE 0UH
FB032	1-400-040-22	FERRITE 0UH
FB034	1-400-040-22	FERRITE 0UH
FB035	1-400-040-22	FERRITE 0UH
FB036	1-400-040-22	FERRITE 0UH

FB037	1-400-040-22	FERRITE 0UH
FB038	1-400-040-22	FERRITE 0UH
FB039	1-400-040-22	FERRITE 0UH
FB040	1-400-040-22	FERRITE 0UH

< IC >

IC031	8-759-143-51	IC uPC1675G-T1
IC032	8-759-143-51	IC uPC1675G-T1
IC033	8-759-642-22	IC uPC29M05T-E2

< RESISTOR >

R031	1-216-809-11	METAL CHIP 100 5%	1/16W
R032	1-216-809-11	METAL CHIP 100 5%	1/16W
R033	1-216-809-11	METAL CHIP 100 5%	1/16W
R034	1-216-809-11	METAL CHIP 100 5%	1/16W
R035	1-216-809-11	METAL CHIP 100 5%	1/16W

R036	1-216-809-11	METAL CHIP 100 5%	1/16W
R037	1-216-821-11	METAL CHIP 1K 5%	1/16W
R038	1-216-821-11	METAL CHIP 1K 5%	1/16W

< TRANSFORMER >

T031	1-429-252-11	TRANSFORMER, HIGH-FREQUENCY
T032	1-429-252-11	TRANSFORMER, HIGH-FREQUENCY

* A-4591-416-A USB BOARD, COMPLETE

< CAPACITOR >

C301	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V (J)
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Ref. No.	Part No.	Description	Remarks
		< CONNECTOR >	
CN301	1-816-768-11	CONNECTOR, USB (B) (USB)	
CN302	1-568-830-11	CONNECTOR, FFC 11P	
* CN304	1-564-517-11	PLUG, CONNECTOR 2P	
		< DIODE >	
D302	8-719-422-46	DIODE MA8056-TX	
D303	8-719-313-43	DIODE SEL6210S-TH10	
D304	8-719-301-42	DIODE SEL6410E-TH10	
D305	8-719-301-42	DIODE SEL6410E-TH10	
D306	8-719-422-46	DIODE MA8056-TX	

< PIN >

EP301	1-537-770-21	TERMINAL BOARD, GROUND
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< FERRITE BEAD >

FB301	1-216-864-11	METAL CHIP 0 5%	1/16W
FB302	1-216-864-11	METAL CHIP 0 5%	1/16W

< RESISTOR >

R301	1-216-813-11	METAL CHIP 220 5%	1/16W
R303	1-216-810-11	METAL CHIP 120 5%	1/16W
R304	1-216-810-11	METAL CHIP 120 5%	1/16W
R305	1-216-810-11	METAL CHIP 120 5%	1/16W
R306	1-216-829-11	METAL CHIP 4.7K 5%	1/16W

* A-4591-399-A VIDEO BOARD, COMPLETE

< CAPACITOR >

C701	1-124-779-00	ELECT CHIP 10uF 20%	16V
C702	1-124-779-00	ELECT CHIP 10uF 20%	16V
C703	1-124-779-00	ELECT CHIP 10uF 20%	16V
C704	1-128-391-11	ELECT CHIP 330uF 20.00%	6.3V
C705	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V

C706	1-162-928-11	CERAMIC CHIP 120PF 5%	50V
C707	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C708	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C709	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V
C710	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V

C711	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V
C712	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C713	1-124-779-00	ELECT CHIP 10uF 20%	16V
C726	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V
C727	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V

C728	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V
C729	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C730	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C731	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V
C732	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V

C733	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V
C734	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C741	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C742	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C743	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V

C744	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V
C745	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V
C746	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V
C747	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C748	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C749	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V			< COIL >	
C750	1-126-206-11	ELECT CHIP	100uF 20% 6.3V	L701	1-412-031-11	INDUCTOR CHIP	47uH
C751	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V	L702	1-412-031-11	INDUCTOR CHIP	47uH
C752	1-126-206-11	ELECT CHIP	100uF 20% 6.3V	L703	1-412-031-11	INDUCTOR CHIP	47uH
C753	1-126-206-11	ELECT CHIP	100uF 20% 6.3V	L704	1-412-031-11	INDUCTOR CHIP	47uH
C754	1-135-346-21	ELECT CHIP	39uF 20% 16V			< TRANSISTOR >	
C755	1-126-197-11	ELECT CHIP	10uF 20.00% 50V	Q701	8-729-421-22	TRANSISTOR	UN2211-TX
C756	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	Q702	8-729-424-08	TRANSISTOR	UN2111-TX
C757	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V			< RESISTOR >	
C758	1-126-197-11	ELECT CHIP	10uF 20.00% 50V	R701	1-218-285-11	METAL CHIP	75 5% 1/10W
C759	1-126-197-11	ELECT CHIP	10uF 20.00% 50V	R702	1-216-807-11	METAL CHIP	68 5% 1/16W
C760	1-126-197-11	ELECT CHIP	10uF 20.00% 50V	R703	1-218-285-11	METAL CHIP	75 5% 1/10W
C761	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	R704	1-218-285-11	METAL CHIP	75 5% 1/10W
C762	1-128-391-11	ELECT CHIP	330uF 20.00% 6.3V	R706	1-218-285-11	METAL CHIP	75 5% 1/10W
C763	1-107-826-11	CERAMIC CHIP	0.1uF 10.00% 16V				
		< CONNECTOR >		R707	1-218-285-11	METAL CHIP	75 5% 1/10W
CN701	1-568-463-11	CONNECTOR, D-SUB (SOCKET) 15P (COMP D)		R708	1-218-285-11	METAL CHIP	75 5% 1/10W
CN702	1-568-463-11	CONNECTOR, D-SUB (SOCKET) 15P (COMP E)		R709	1-218-285-11	METAL CHIP	75 5% 1/10W
CN703	1-568-463-11	CONNECTOR, D-SUB (SOCKET) 15P (COMP F)		R710	1-216-807-11	METAL CHIP	68 5% 1/16W
CN704	1-784-766-11	CONNECTOR, FFC 5P		R712	1-216-807-11	METAL CHIP	68 5% 1/16W
CN705	1-770-694-11	CONNECTOR, FFC/FPC 11P					
CN706	1-770-692-11	CONNECTOR, FFC/FPC 9P		R714	1-216-807-11	METAL CHIP	68 5% 1/16W
		< DIODE >		R716	1-218-285-11	METAL CHIP	75 5% 1/10W
D701	8-719-941-09	DIODE DAP202UT106		R717	1-218-285-11	METAL CHIP	75 5% 1/10W
D702	8-719-941-09	DIODE DAP202UT106		R718	1-218-285-11	METAL CHIP	75 5% 1/10W
D703	8-719-941-09	DIODE DAP202UT106		R720	1-216-807-11	METAL CHIP	68 5% 1/16W
D704	8-719-941-09	DIODE DAP202UT106					
D705	8-719-941-09	DIODE DAP202UT106		R722	1-216-807-11	METAL CHIP	68 5% 1/16W
D706	8-719-941-09	DIODE DAP202UT106		R723	1-218-285-11	METAL CHIP	75 5% 1/10W
D707	8-719-941-09	DIODE DAP202UT106		R724	1-218-285-11	METAL CHIP	75 5% 1/10W
D708	8-719-941-09	DIODE DAP202UT106		R725	1-218-285-11	METAL CHIP	75 5% 1/10W
D709	8-719-941-09	DIODE DAP202UT106		R727	1-216-807-11	METAL CHIP	68 5% 1/16W
D710	8-719-988-61	DIODE 1SS355TE-17					
D711	8-719-988-61	DIODE 1SS355TE-17		R728	1-218-285-11	METAL CHIP	75 5% 1/10W
D712	8-719-941-86	DIODE DAN202UT106		R729	1-216-809-11	METAL CHIP	100 5% 1/16W
D713	8-719-941-86	DIODE DAN202UT106		R730	1-216-809-11	METAL CHIP	100 5% 1/16W
		< IC >		R731	1-218-285-11	METAL CHIP	75 5% 1/10W
IC701	8-759-710-62	IC NJM2246M(TE2)		R732	1-216-841-11	METAL CHIP	47K 5% 1/16W
IC702	8-759-266-06	IC NJM2243M(TE2)		R733	1-216-841-11	METAL CHIP	47K 5% 1/16W
IC703	6-700-894-01	IC LT1675CGN-E2		R734	1-216-833-11	METAL CHIP	10K 5% 1/16W
IC704	6-700-894-01	IC LT1675CGN-E2		R735	1-216-833-11	METAL CHIP	10K 5% 1/16W
IC705	8-759-271-77	IC DS26C31TMX		R736	1-216-833-11	METAL CHIP	10K 5% 1/16W
IC706	8-759-271-78	IC DS26C32ATMX		R737	1-216-833-11	METAL CHIP	10K 5% 1/16W
IC707	8-759-524-09	IC TC74VHC153FT(EL)					
IC708	8-759-271-78	IC DS26C32ATMX		R738	1-216-833-11	METAL CHIP	10K 5% 1/16W
IC709	8-759-186-23	IC TC74VHC595F(EL)		R739	1-216-841-11	METAL CHIP	47K 5% 1/16W
IC710	6-702-295-01	IC NJM78M12DL1A-TE1		R740	1-216-823-11	METAL CHIP	1.5K 5% 1/16W
		< JACK >		R741	1-216-809-11	METAL CHIP	100 5% 1/16W
J701	1-785-866-11	JACK, PIN 3P (LINE4 INPUT A,B,C)		R742	1-216-809-11	METAL CHIP	100 5% 1/16W
J702	1-691-431-11	CONNECTOR ASSY, BNC (G/Y, R/R-Y)					
J703	1-691-431-11	CONNECTOR ASSY, BNC (SYNC/HD,B/B-Y)		R743	1-216-809-11	METAL CHIP	100 5% 1/16W
J704	1-695-038-11	CONNECTOR ASSY, BNC 1P (VD)		R744	1-216-841-11	METAL CHIP	47K 5% 1/16W
				R745	1-216-833-11	METAL CHIP	10K 5% 1/16W
				R746	1-216-841-11	METAL CHIP	47K 5% 1/16W
				R747	1-216-833-11	METAL CHIP	10K 5% 1/16W
				R748	1-216-841-11	METAL CHIP	47K 5% 1/16W
				R749	1-216-809-11	METAL CHIP	100 5% 1/16W
				R762	1-216-821-11	METAL CHIP	1K 5% 1/16W
				R763	1-216-821-11	METAL CHIP	1K 5% 1/16W
				R764	1-216-821-11	METAL CHIP	1K 5% 1/16W
				R765	1-216-833-11	METAL CHIP	10K 5% 1/16W
				R766	1-218-285-11	METAL CHIP	75 5% 1/10W
				R767	1-218-285-11	METAL CHIP	75 5% 1/10W

VOUT

Ref. No.	Part No.	Description	Remarks
		VOUT BOARD	

		< CONNECTOR >	
CN682	1-784-766-11	CONNECTOR, FFC 5P (VIDEO)	
CN683	1-566-847-41	CONNECTOR, (S) TERMINAL 4P (S VIDEO)	
		< DIODE >	
D681	8-719-941-86	DIODE DAN202UT106	
D682	8-719-941-86	DIODE DAN202UT106	
D683	8-719-941-86	DIODE DAN202UT106	
		< JACK >	
J682	1-695-038-11	CONNECTOR ASSY, BNC 1P	

		MISCELLANEOUS	

11	1-757-817-11	WIRE (FLAT TYPE) (5 CORE)	
59	1-769-911-11	WIRE (FLAT TYPE) (9 CORE)	
62	1-773-056-11	WIRE (FLAT TYPE) (17 CORE)	
65	1-769-940-11	WIRE (FLAT TYPE) (11 CORE)	
72	1-773-189-11	WIRE (FLAT TYPE) (23 CORE)	
73	1-765-327-11	WIRE (FLAT TYPE) (11 CORE)	
152	1-763-724-11	FAN, DC (92 SQUARE)	
154	8-719-033-58	DIODE RBV-1506	
156	1-543-798-11	FILTER, CLAMP (FERRITE CORE)	
161	1-773-314-11	WIRE (FLAT TYPE) (31 CORE)	
162	1-769-938-11	WIRE (FLAT TYPE) (11 CORE)	
202	1-824-351-11	CABLE, COAXIAL (BNC-MINI PIN)	
203	1-824-351-21	CABLE, COAXIAL (BNC-MINI PIN)	
△ 205	1-576-408-11	BREAKER, CIRCUIT (AEP,CH)	
△ 205	1-576-642-11	BREAKER, CIRCUIT (US,CND)	
△ 205	1-576-651-11	BREAKER, CIRCUIT (J)	
206	1-500-497-11	FILTER, CLAMP (FERRITE CORE)	
210	1-769-841-11	WIRE (FLAT TYPE) (5 CORE)	
212	1-790-324-11	WIRE (FLAT TYPE) (11 CORE)	
213	1-824-258-11	WIRE, FLAT TYPE	
217	1-773-004-11	WIRE (FLAT TYPE) (15 CORE)	
△ T001	1-437-766-11	TRANSFORMER, POWER (J)	
△ T001	1-437-767-11	TRANSFORMER, POWER (CH)	
△ T001	1-437-769-11	TRANSFORMER, POWER (US,CND)	
△ T001	1-437-770-11	TRANSFORMER, POWER (AEP)	

Ref. No.	Part No.	Description	Remarks
		ACCESSORIES	

△	1-551-631-22	CORD, POWER (AEP)	
△	1-551-812-11	CORD, POWER (US,CND)	
	1-759-586-11	CONTROLLER, VIDEO (US,CND,AEP,CH)	
△	1-783-481-12	CORD, POWER (CH)	
△	1-790-396-12	CORD, POWER (J)	
	2-347-401-02	INSTRUCTION (J)	
	2-347-522-01	FOOT	
	2-347-534-02	MANUAL, INSTRUCTION (JAPANESE)(J)	
	2-347-534-12	MANUAL, INSTRUCTION (ENGLISH)(AEP)	
	2-347-534-22	MANUAL, INSTRUCTION (ENGLISH)(US,CND)	
	2-347-534-31	MANUAL, INSTRUCTION (SIMPLIFIED CHINESE)(CH)	
	2-347-571-04	CD (CONTROL SOFT)	

		HARDWARE LIST	

#1	7-682-561-09	SCREW +B 4X8	
#2	7-685-871-09	SCREW +BVTT 3X6 (S)	
#3	7-682-948-01	SCREW +PSW 3X8	
#4	7-682-547-09	SCREW +B 3X6	
#5	7-682-968-01	SCREW +PSW 4X30	
#6	7-682-904-01	SCREW +PWH 4X6	
#7	7-685-647-99	SCREW +BVTP 3X10 TYPE2 TT (B)	
#8	7-685-659-99	SCREW +BVTP 4X8 TYPE2 TT (B)	
#9	7-685-861-09	SCREW +BVTT 2.6X5 (S)	
#10	7-623-422-07	LW 3, TYPE B	
#11	7-682-547-09	SCREW +BTT 3X6 (S) BZN	
#12	7-685-872-09	SCREW +BVTT 3X8 (S)	
#13	7-683-407-04	BOLT,HEXAGON SOCKET 3X14	

△印の部品,または△印付きの点線で囲まれた部品は, 安全性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下さい。

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和△标志来识别的零部件,在安全方面具有关键性。因此只能以规定号码的零部件来更换。