DENON PROFESSIONAL

Ver. 3

Please refer to the MODIFICATION NOTICE.

SERVICE MANUAL

MODEL	JP	E3	E2	EK	E2A	E1C	EUT
DN-X1500		✓	✓				
DN-X1500S	✓	✓	✓				

DJ MIXER

注　意

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

- **For purposes of improvement, specifications and design are subject to change without notice.**
- **Please use this service manual with referring to the operating instructions without fail.**
- **Some illustrations using in this service manual are slightly different from the actual set.**

- 本機の仕様は性能改良のため、予告なく変更することがあります。
- 補修用性能部品の保有期間は、製造打切後 8 年です。
- 修理の際は、必ず取扱説明書を参照の上、作業を行ってください。
- 本文中に使用しているイラストは、説明の都合上現物と多少異なる場合があります。

D&M Holdings Inc.
PROFESSIONAL BUSINESS COMPANY
TOKYO, JAPAN

X0196V.03 DE/CDM 0711

SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

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

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

◎Heed the cautions!

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

◎Caution concerning electric shock!

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

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

◎Caution concerning disassembly and assembly!

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

◎Only use designated parts!

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

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

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

◎Inspect for safety after servicing!

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

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

CAUTION **Concerning important safety parts**

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

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

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

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

注　意 **サービス、点検時にはつぎのことにご注意願います。**

◎注意事項をお守りください！

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

◎感電に注意！

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

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

◎分解、組み立て作業時のご注意！

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

◎指定部品の使用！

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

◎部品の取付けや配線の引きまわしは、元どおりに！

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

◎サービス後は安全点検を！

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

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

注　意 **安全上重要な部品について**

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

(1) 配線図…⚠マークで表示しています。

(2) 部品表…⚠マークで表示しています。

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

DISASSEMBLY

(Follow the procedure below in reverse order when reassembling.)

1. Top Panel Unit

(1) Remove 9 side screws and pull up the Top Panel Unit.

(2) Disconnect FFC cable and Connector.

(3) Detach Top Panel Unit

Note : Do not pull out aslant to prevent FFC cable damage.
Do not fail to pull AC cord from wall outlet before disconnect the FFC cable.
If AC cord is remained plugged into wall outlet, power is kept supplied in the unit, which may cause danger.

各部のはずしかた

（組み立てるときは、逆の順序で行ってください。）

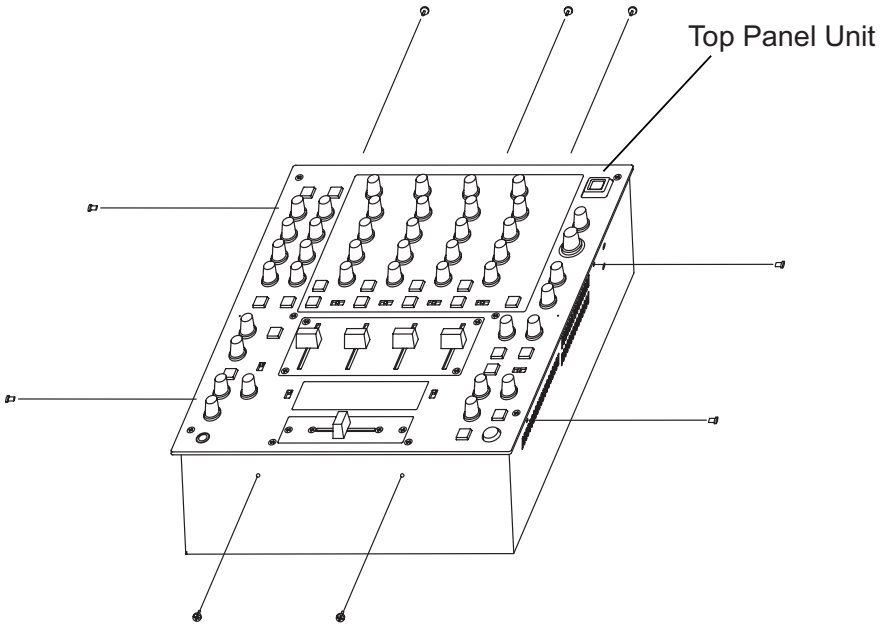
1. Top Panel Unit

(1) 側面側からネジを 9 本はずし、Top Panel Unit を引き出します。

(2) FFC ケーブルとコネクタをはずします。

(3) Top Panel Unit をはずします。

（注） FCC ケーブルを破損させないために斜めに抜かないで下さい。
FFC ケーブルを抜く前に AC 電源コードをコンセントから抜いて下さい。AC コードがコンセントに接続されていると、Unit に電源が供給され危険です。



2. Cross Fader Unit

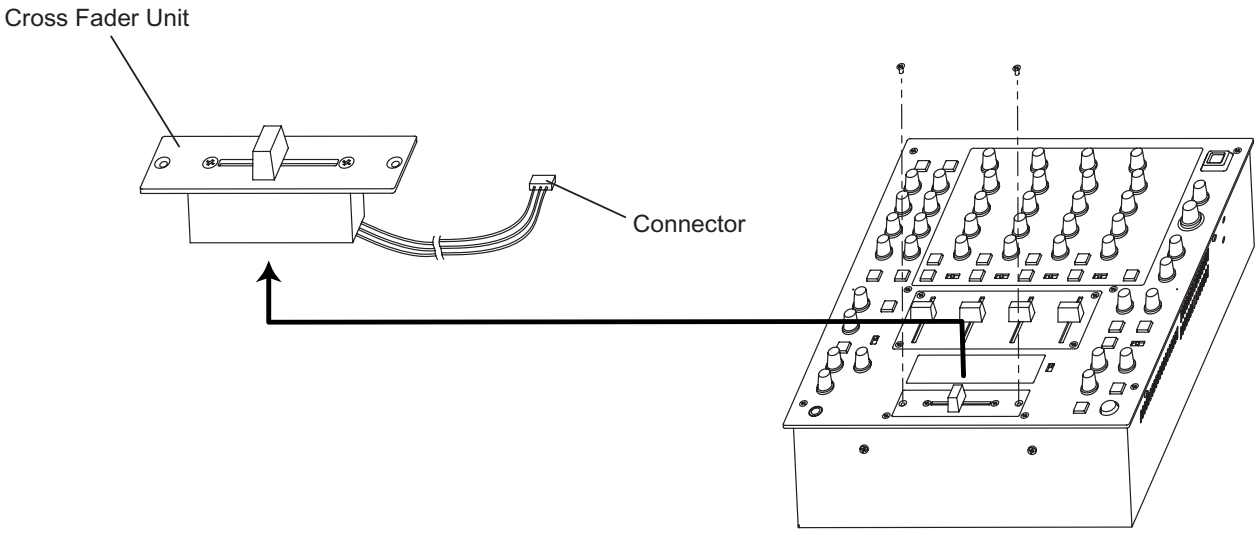
(1) Remove 2 top screws and pull up Cross Fader Unit.

(2) Disconnect Connector.

2. Cross Fader Unit

(1) Cross Fader Plate を取り付けている上面のネジ 2 本はずし、Cross Fader Unit を引き出します。

(2) コネクタをはずします。

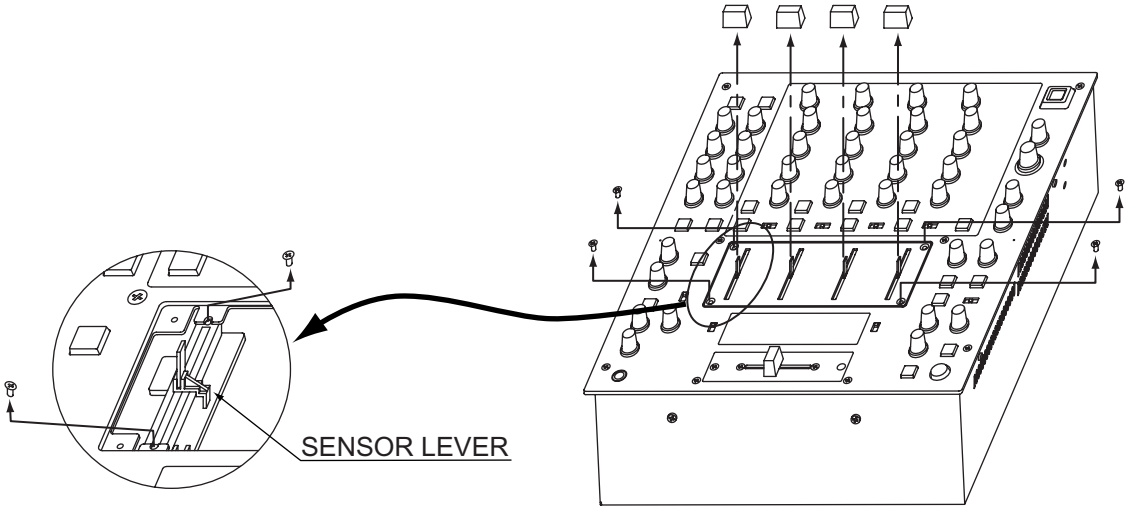


3. CH Fader Unit

(1) Remove 4 knobs.
(2) Remove 4 screws and pull up CH Fader Panel.
(3) Remove 2 screws for each CH.
(4) Disconnect Connector.
(5) Detach CH Fader Unit.

3. CH Fader Unit

(1) ノブ 4 個をはずします。
(2) ネジ 4 本をはずし、CH Fader Panel を引き出します。
(3) 各 CH のネジ 2 本をはずします。
(4) コネクタをはずします。
(5) CH Fader Unit をはずします。

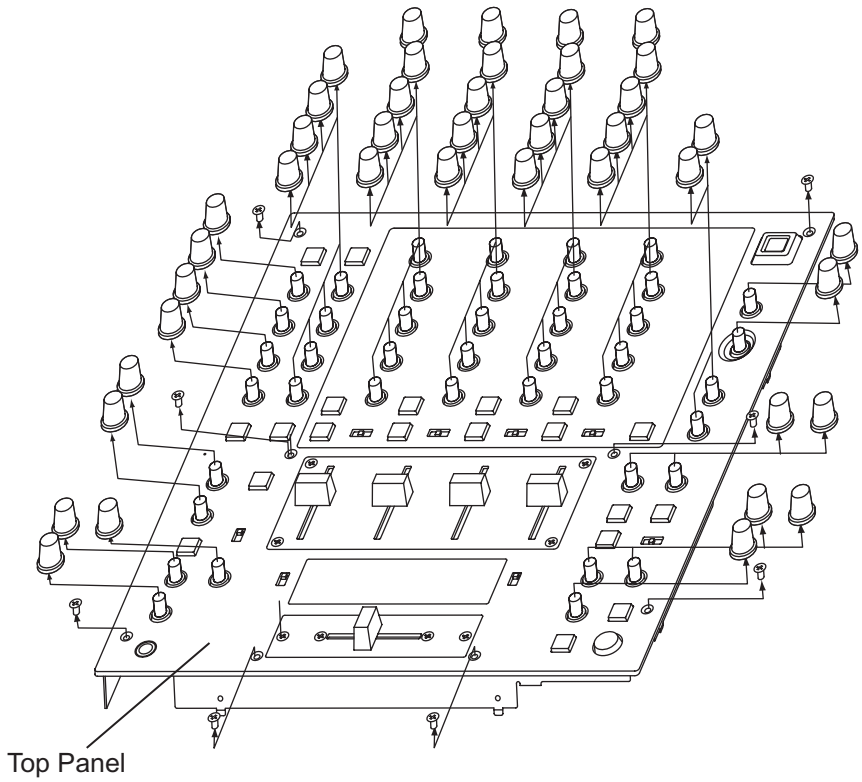


4. Top Panel

(1) Pull out the knobs.
(2) Remove 8 screws.
(3) Detach Top Panel.

4. Top Panel

(1) ノブをはずします。
(2) ネジ 8 本をはずします。
(3) Top Panel をはずします。



ADJUSTING THE MOVEMENT OF THE CROSS FADER CONTROL

(1) Move the Cross Fader control all the way to the end in the direction of the arrow.

(2) Turn Cross Fader screw A gently using the adjustment screwdriver to adjust the movement of the control.

When turned clockwise, the movement of the control becomes heavier.
When turned counterclockwise, the movement of the control becomes lighter.

(3) After adjusting, mount the Cross Fader Unit onto the main unit, being sure to place the cable properly. Be careful not to let the cable get stuck in the main unit.

Note : The Cross Fader has a precision structure. Do not tighten or loosen it excessively. Doing so could cause malfunction or adversely affect performance.

CROSS FADER つまみの動き調整

(1) Cross Fader つまみを矢印の方向一杯に移動します。

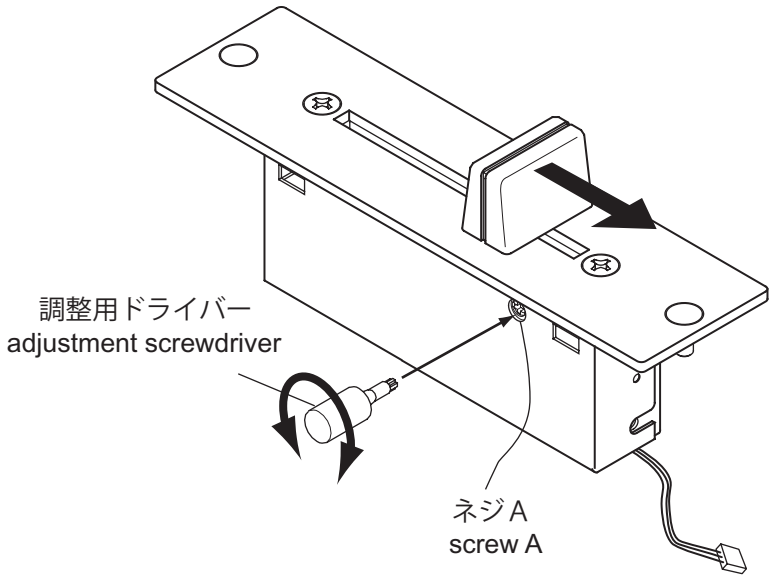
(2) Cross Fader のネジ A を調整用ドライバーで軽く回してつまみの動きを調整します。

右に回すと、つまみの動きが重くなります。

左に回すと、つまみの動きが軽くなります。

(3) 調整が終了したら、ケーブルを整えながら Cross Fader Unit を本体に取り付けます。このとき、ケーブルを本体に挟まないように注意して下さい。

（注） Cross Fader は精密な構造となっていますので、無理な締め付けやゆるめを行なわないでください。故障したり、性能に影響を与える場合があります。



SERVICE MODE SPECIFICATION

* How the product performs when the operation buttons for μcom control are pressed (including control input) is described in the table below.

1. POWER ON

Function	Description	Display	Remarks
POWER	(1)Turns power ON/OFF.		
Service Mode	(2)Switches power OFF when ON. ①Enters in the service mode when power on while pressing MIC POST ON/OFF button and EFFECT LOOP ON/OFF button. ② For canceling the service mode, turn power off/on.	① Displays "Service".	①Refer to CH GAIN VR. ②Refer to MASTER LEVEL VR. ③Refer to SAMPER ASSIGN. ④Refer to CROSSFADER ASSIGN.

2. CH GAIN VR

Function	Description	Display	Remarks
CH LEVEL METER	When you turn this VR, LED of CH level meter is lit.	① VR position is 0 : LED is not lit. ② VR position is 10 : All LED is lit.	

3. MASTER LEVEL VR

Function	Description	Display	Remarks
MASTER LEVEL METER	When you turn this VR, LED of master level meter is lit.	①VR position is 0 : LED is not lit. ② VR position is 10 : All LED is lit.	

4. (SAMPLER) CROSSFADER ASSIGN switch

Function	Description	Display	Remarks
FL mode	You can select FL display mode.	① A : FL tube is not lit. ② B : All FL tube is lit. ③ POST : Displays VR checking or LED checking.	

サービスモード仕様

* 以下にマイコンを制御する操作ボタンが押された（外部制御入力も含む）時の本体の動作について記載します。

1. POWER ON

機能	詳細	表示	備考
POWER	(1) 電源を ON/OFF する。		
サービスモード	(2)ONの時、電源をOFFに切り替えます。 ①MIC POST ON/OFF ボタンと EFFECT LOOP ON/OFF ボタンを押しながら電源を ON にするとサービスモードに入ります。 ②サービスモードを取り消すには、電源を OFF/ON にします。	① "Service" を表示。	① CH GAIN VR を参照 ② MASTER LEVEL VR を参照 ③ SAMPER ASSIGN を参照 ④ CROSSFADER ASSIGN を参照

2. CH GAIN VR

機能	詳細	表示	備考
CH LEVEL METER	この VR を回すと、CH レベルメータの LED が点灯します。	① VR の位置が 0 の時 : LED 消灯 ② VR の位置が 10 の時 : 全ての LED 点灯	

3. MASTER LEVEL VR

機能	詳細	表示	備考
MASTER LEVEL METER	この VR を回すと、マスタレベルメータの LED が点灯します。	① VR の位置が 0 の時 : LED 消灯 ② VR の位置が 10 の時 : 全ての LED 点灯	

4. (SAMPLER) CROSSFADER ASSIGN switch

機能	詳細	表示	備考
FL モード	FL 表示モードの選択	① A : FL 管消灯 ② B : FL 管全点灯 ③ POST : VR チェック中または LED チェック中を表示	

5. SAMPLER ASSIGN switch

Function	Description	Display	Remarks
FADER VR CHECK	When CROSSFADER ASSIGN switch is set to POST, you can check the fader VR and LED.		①Refer to CROSSFAER ASSGIN.
OFF	When selected OFF, it becomes the LED off modde.	① Displays "LED OFF".	
CH1	When selected CH1, it becomes the mode of reading/displaying CH1 fader VR value.	① Displays "0" ～ "100". ②Fader position is 0 : "0" ③ Fader position is 10 :"100"	
CH2	When selected CH2, it becomes the mode of reading/displaying CH2 fader VR value.	①Displays "0"～ "100". ②Fader position is 0 : "0" ③ Fader position is 10 : "100"	
CH3	When selected CH3, it becomes the mode of reading/displaying CH3 fader VR value.	①Displays "0"～ "100". ②Fader position is 0 : "0" ③ Fader position is 10 : "100"	
CH4	When selected CH4, it becomes the mode of reading/displaying CH4 fader VR value.	①Displays "0"～ "100". ②Fader position is 0 : "0" ③ Fader position is 10 : "100"	
MAIN MIC	When selected MAIN MIC, it becomes the LED on mode.	① Displays "LED ON".	
MASTER	When selected MASTER, it becomes the mode of reading/displaying crossfader VR value.	①Displays "0"～"100". ②Fader position is Left side : "0" ③ Fader position is Right side : "100"	

6. μCOM version check

You can check the μcom version at "Preset Functions".
Please refer to the Instructions Manual.

5. SAMPLER ASSIGN switch

機能	詳細	表示	備考
FADER VR CHECK	CROSS FADEASSIGN スイッチが POST 側に設定されていると、フェーダー VR と LED をチェックできます。		① CROSSFAER ASSGIN を参照
OFF	OFF を選択すると、LED オフモードになります。	① "LED OFF" を表示	
CH1	CH1 を選択すると、CH1 フェーダー VR 値読み込み / 表示モードになります。	① "0" ～ "100" を表示 ②フェーダー位置が 0 の時 : "0" ③フェーダー位置が 10 の時 : "100"	
CH2	CH2 を選択すると、CH2 フェーダー VR 値読み込み / 表示モードになります。	① "0" ～ "100" を表示 ②フェーダー位置が 0 の時 : "0" ③フェーダー位置が 10 の時 : "100"	
CH3	CH3 を選択すると、CH3 フェーダー VR 値読み込み / 表示モードになります。	① "0" ～ "100" を表示 ②フェーダー位置が 0 の時 : "0" ③フェーダー位置が 10 の時 : "100"	
CH4	CH4 を選択すると、CH4 フェーダー VR 値読み込み / 表示モードになります。	① "0" ～ "100" を表示 ②フェーダー位置が 0 の時 : "0" ③フェーダー位置が 10 の時 : "100"	
MAIN MIC	MAIN MIC を選択すると、LED オンモードになります。	① "LED ON" を表示	
MASTER	MASTER を選択すると、クロスフェーダー VR 値読み込み / 表示モードになります。	① "0" ～ "100" を表示 ②フェーダー位置が左の時 :"0" ③フェーダー位置が右の時 : "100"	

6. μCOM バージョン確認

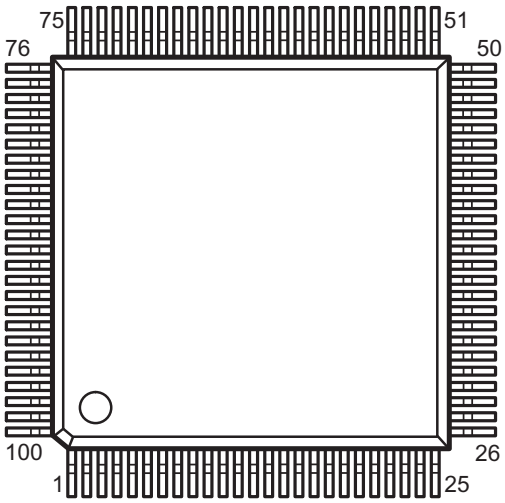
"Preset Functions" でマイコンのバージョンを確認できます。
取扱説明書を参照してください。

SEMICONDUCTORS

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

● IC's

MN102H74D (IC101)



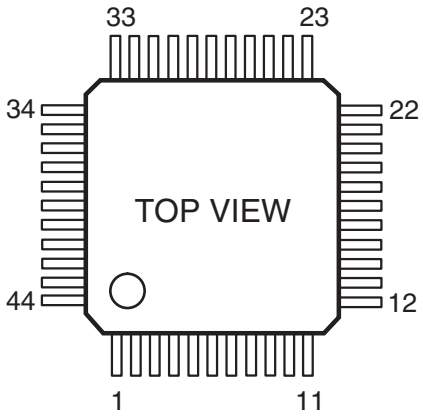
MN102H74D Terminal Function

No.	Pin Name	Symbol	I/O	DET	Int PU	Ext	Res	Ini	Function
1	P50,WAIT	_WAIT	I	-	-	Pu	H	-	HI R/W timing wait signal
2	P51,_RE	_RD	O	-	-	Pu	H	-	Read signal
3	P52,_WEL	_WEL	O	-	-	Pu	H	-	Write signal
4	P53,_WEH	_DSP_REQ	O	-	ON	-	Hi-z	H	System <-> DSP REQ signal
5	P60,_CS0	_CS0	O	-	-	Pu	H	-	Chip select signal 1st address of Flash ROM:
6	P61,_CS1	_CS_DSP	O	-	-	Pu	H	-	Chip select of expansion port
7	P62,_CS2	_HBR	O	-	-	Pu	H	-	DSP select signal Host Interface
8	P63,_CS3	_DSP_ACK	I	-	ON	-	Hi-z	-	System <-> DSP ACK signal
9	P64,TM0IO,_BREQ	_BREQ	I	-	-	Pu	H	-	Panel ucom control: When DSP boot, system bus open. 'L': open
10	P65,TM1IO,_BRACK	_BRACK	O		-	Pu	H	-	When bus open, 'L' output.
11	P66,_WR	_DAC_RST	O	-	ON	-	H	H	Reset of ADC, DAC, and DIT
12	_WORD	_WORD	I	-	-	L	L	-	Select width of data bit bus 'L': 16bit
13	P20,A00	A00	A/O	-	ON	-	Hi-z	-	Address bus
14	P21,A01	A01	A/O	-	ON	-	Hi-z	-	Address bus
15	P22,A02	A02	A/O	-	ON	-	Hi-z	-	Address bus
16	P23,A03	A03	A/O	-	ON	-	Hi-z	-	Address bus
17	Vdd	Vdd	-	-	-	-	-	-	Power supply(+3.3V)
18	P54,BOSC,SYSCLK	RESERVE1	O	-	ON	-	L	H	Signal for test
19	Vss	Vss	-	-	-	-	-	-	GND(0V)
20	XI	XI	-	-	-	-	-	-	Not used
21	XO	XO	-	-	-	-	-	-	Not used
22	Vdd	Vdd	-	-	-	-	-	-	Power supply(+3.3V)
23	OSCI	OSCI	I	-	-	-	-	-	This Need 12MHz for USB communication
24	OSCO	OSCO	O	-	-	-	-	-	Output OSCI
25	MODE	MODE	I	-	-	H	H	-	Mode set 'H': Memory expansion/single chip mode
26	P24,A04	A04	A/O	-	ON	-	Hi-z	-	Address bus
27	P25,A05	A05	A/O	-	ON	-	Hi-z	-	Address bus
28	P26,A06	A06	A/O	-	ON	-	Hi-z	-	Address bus
29	P27,A07	A07	A/O	-	ON	-	Hi-z	-	Address bus
30	P30,A08	A08	A/O	-	ON	-	Hi-z	-	Address bus
31	P31,A09	A09	A/O	-	ON	-	Hi-z	-	Address bus
32	P32,A10	A10	A/O	-	ON	-	Hi-z	-	Address bus
33	P33,A11	A11	A/O	-	ON	-	Hi-z	-	Address bus
34	Vdd	Vdd	-	-	-	-	-	-	Power supply(+3.3V)
35	P34,A12	A12	A/O	-	ON	-	Hi-z	-	Address bus
36	P35,A13	A13	A/O	-	ON	-	Hi-z	-	Address bus
37	P36,A14	A14	A/O	-	ON	-	Hi-z	-	Address bus
38	P37,A15	A15	A/O	-	ON	-	Hi-z	-	Address bus

※Internal Pull Up is 10〜90 (KΩ), Ave : 30 (KΩ)

No.	Pin Name	Symbol	I/O	DET	Int PU	Ext	Res	Ini	Function
39	P40,A16	A16	A/O	-	ON	-	Hi-z	-	Address bus
40	P41,A17	A17	A/O	-	ON	-	Hi-z	-	Address bus
41	P42,A18	A18	A/O	-	ON	-	Hi-z	-	Address bus
42	P43,(TM2IO),A19	A19	A/O	-	-	Pu	H	-	Address bus Need pull up to extension for DSP boot control
43	Vss	Vss	-	-	-	-	-	-	GND(0V)
44	P44,(TM3IO),A20	_CDDEC_LO	O	-	ON	-	Hi-z	H	Latch to codec1 'L': available
45	P45,(TM4IO),A21	_CDDEC_LO	O	-	ON	-	Hi-z	H	Latch to codec2 'L': available
46	P46,(TM5IO),A22	_DAC_CS	O	-	ON	-	Hi-z	H	DAC chip select 'L': available
47	P47,_CS0S,(TM6IO),A23	_DIT_CS	O	-	-	Pd	L	H	DIT chip select 'L': available (be pull down in DSP)
48	P70,_CS1S,(TM7IO),SBI3	DIT_DIN	I	-	ON	-	Hi-z	H	DIT data input
49	P71,_CS2S,(TM8IO),SBO3	CLOCK_A	O	-	-	Pd	L	L	CODEC(AD1838A)/DAC(PCM1791A)/DIT(AK4103) data output clock signal
50	P72,_CS3S,(TM9IO),SBT3	DATA_A	O	-	ON	-	Hi-z	L	CODEC(AD1838A)/DAC(PCM1791A)/DIT(AK4103) data signal
51	P80,TM10IOA,WDOUT	PLGIN_L	I	-	-	Pu	H	H	Lch SEND/RETURN connection status 'H': connect
52	P81,TM10IOB,STOP	PLGIN_R	I	-	-	Pu	H	H	Rch SEND/RETURN connection status 'H': connect
53	USBMODE	USBMODE	-	-	-	-	-	-	USB mode selectable terminal, connect to GND
54	Vdd	Vdd	-	-	-	-	-	-	Power supply(+3.3V)
55	D+	D+	-	-	-	Pu	-	-	Connect USB terminal D+. 24Ω resistance is connected in series.
56	D-	D-	-	-	-	-	-	-	Connect USB terminal D-. 24Ω resistance is connected in series.
57	Vss	Vss	-	-	-	-	-	-	GND(0V)
58	P82,SBI2	RxD	I	-	-	Pu	H	-	75000bps Need to convert level
59	P83,SBO2,TM11IOA	TxD	O	-	-	Pu	H	H	75000bps Need to convert level
60	P84,SBT2,TM11IOB	_MONO	I	-	ON	-	Hi-z	-	MONO/STEREO SW 'L': MONO
61	Vss	Vss	-	-	-	-	-	-	GND(0V)
62	P90,AN0,TM12IOA	ATT	I	Ad	-	-	-	-	Adjust VR for Master output (BAL/UNBAL)
63	P91,AN1,TM12IOB	_STB_CLR	O	-	-	Pd	L	L	TC94A32/TC9162 ALL STB set to L 'L': L set , CODEC reset
64	P92,AN2,TM13IOA	CLOCK_B	O	-	-	Pd	L	L	Electric VR(TC94A32)/SelectorTC9162 data output clock signal
65	P93,AN3,TM13IOB	DATA_B	O	-	ON	-	Hi-z	L	Electric VR(TC94A32)/SelectorTC9162 data signal
66	Vdd	Vdd	-	-	-	-	-	-	Power supply(+3.3V)
67	PA0,SBI1,AN4	_FPLAY1	O	-	-	Pu	H	H	Ch1 Fader PLAY output 20msec 'L' pulse
68	PA1,SBO1,AN5,SDA1	_FCUE1	O	-	-	Pu	H	H	Ch1 Fader CUE output 20msec 'L' pulse
69	PA2,SBT1,AN6,SCL1	_FPLAY2	O	-	-	Pu	H	H	Ch2 Fader PLAY output 20msec 'L' pulse
70	PA3,SBI0,AN7	_FCUE2	O	-	-	Pu	H	H	Ch2 Fader CUE output 20msec 'L' pulse
71	PA4,SBO0,SDA0	_FPLAY3	O	-	-	Pu	H	H	Ch3 Fader PLAY output 20msec 'L' pulse
72	PA5,SBT0,SCL0	_FCUE3	O	-	-	Pu	H	H	Ch3 Fader CUE output 20msec 'L' pulse
73	TEST1	SBD4	I	-	-	Pu	-	-	Pull up 4.7kΩ ～ 10kΩ Connection output for onboard write of internal form.
74	TEST2	SBT4	I	-	-	Pu	-	-	Pull up 4.7kΩ ～ 10kΩ Connection output for onboard write of internal form.
75	_NMI	_NMI	I	Lv	-	-	H	H	
76	PB0,_IRQ0	_DSP_BPM	I	Ed	ON	-		-	Trigger terminal for BPM counter by DSP
77	PB1,_IRQ1	DSP_COM	O	-	-	Pu	H	-	System <-> DSP REQ2 signal
78	PB2,_IRQ2	RESERVE4	I	-	-	Pu	H	-	Signal for test
79	PB3,_IRQ3	MUTE	O	-	-	Pu	H	H	Analog/Digital mute 'H': Mute ON
80	PB4,_IRQ4	_FPLAY4	O	-	-	Pu	H	H	Ch4 Fader PLAY output 20msec 'L' pulse
81	PB5,_IRQ5	_FCUE4	O	-	-	Pu	H	H	Ch4 Fader CUE output 20msec 'L' pulse
82	_RST	_RESET	I	Lv	-	-	L	-	Reset signal 'L': Reset
83	Vdd	Vdd	-	-	-	-	-	-	Power supply(+3.3V)
84	P00,D00	D00	D/O	-	ON	-	Hi-Z	-	Data bus
85	P01,D01	D01	D/O	-	ON	-	Hi-Z	-	Data bus
86	P02,D02	D02	D/O	-	ON	-	Hi-Z	-	Data bus
87	P03,D03	D03	D/O	-	ON	-	Hi-Z	-	Data bus
88	P04,D04	D04	D/O	-	ON	-	Hi-Z	-	Data bus
89	P05,D05	D05	D/O	-	ON	-	Hi-Z	-	Data bus
90	P06,D06	D06	D/O	-	ON	-	Hi-Z	-	Data bus
91	P07,D07	D07	D/O	-	ON	-	Hi-Z	-	Data bus
92	Vss	Vss	-	-	-	-	-	-	GND(0V)
93	P010,D08,(TM2IO)	D08	D/O	-	ON	-	Hi-Z	-	Data bus
94	P011,D09,(TM3IO)	D09	D/O	-	ON	-	Hi-Z	-	Data bus
95	P012,D10,(TM4IO)	D10	D/O	-	ON	-	Hi-Z	-	Data bus
96	P013,D11,(TM5IO)	D11	D/O	-	ON	-	Hi-Z	-	Data bus
97	P014,D12,(TM6IO)	D12	D/O	-	ON	-	Hi-Z	-	Data bus
98	P015,D13,(TM7IO)	D13	D/O	-	ON	-	Hi-Z	-	Data bus
99	P016,D14,(TM8IO)	D14	D/O	-	ON	-	Hi-Z	-	Data bus
100	P017,D15,(TM9IO)	D15	D/O	-	ON	-	Hi-Z	-	Data bus

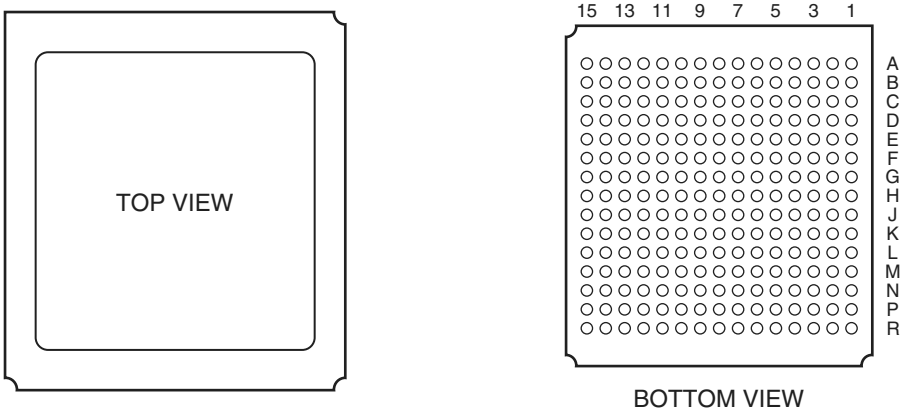
TMP86CM47U (IC301)



TMP86CM47U Terminal Function

Pin No.	Pin Name	Symbol	I/O	DET	Ext	Res	Ini	Function
1	VSS	VSS	-	-	-	-	-	GND (0V)
2	XIN	XIN	-	-	-	-	-	Oscillation input 16MHz
3	XOUT	XOUT	-	-	-	-	-	Oscillation output
4	TEST	TEST	-	-	-	-	-	Fixed to GND
5	VDD	VDD	-	-	-	-	-	Power (+5.0V)
6	P21	ADR1	O	-	Pu	-	H	Address decode signal 1
7	P22	ADR2	O	-	Pu	-	H	Address decode signal 2
8	RESET_	RESET_	-	-	-	-	-	Reset input
9	P20	DSPBSY	I	-	Pu	H	-	Boot flag (L: during boot)
10	P00	ADR3	O	-	Pu	-	H	Address decode signal 3
11	P01	ADR4	O	-	Pu	-	H	Address decode signal 4
12	RXD	RXD	I	-	-	H	-	Serial receive signal
13	TXD	TXD	O	-	Pu	H	H	Serial send signal
14	SO	FLSD	O	-	Pu	H	H	M66005AFP-SDATA
15	P05	FLCS	O	-	Pu	H	H	M66005AFP-CA
16	SCK	FLCLK	O	-	Pu	H	H	M66005AFP-CLK
17	P07	TEST1	O	-	-	-	H	Not used
18	P17	FLRST	O	-	Pd	L	L	M66005AFP reset signal (L: Reset)
19	P16	DRST	O	-	Pd	L	L	DSP reset (L: Reset)
20	P15	BREQ	O	-	Pu	H	H	System ucom stop signal
21	P14	LDLCH	O	-	Pu	H	H	LED driver latch signal
22	P13	LDCLK	O	-	Pu	-	H	Clock for LED driver data sending
23	P12	LDDAT1	O	-	Pd	-	L	LED driver data 1
24	P11	LDDAT2	O	-	Pd	-	L	LED driver data 2
25	P10	LDDAT3	O	-	L	L	L	LED driver data 3
26	AIN0	KEYIN0	I	-	-	-	-	Key input 0 (Volume)
27	AIN1	KEYIN1	I	-	-	-	-	Key input 1 (Volume)
28	AIN2	KEYIN2	I	-	-	-	-	Key input 2 (Volume)
29	AIN3	KEYIN3	I	-	-	-	-	Key input 3 (Volume)
30	AIN4	KEYIN4	I	-	-	-	-	Key input 4 (Volume)
31	AIN5	KEYIN5	I	-	-	-	-	Key input 5 (Volume)
32	AIN6	KEYIN6	I	-	-	-	-	Key input 6 (Volume)
33	AIN7	KEYIN7	I	-	-	-	-	Key input 7 (Volume)
34	VAREF	VARFF	-	-	-	-	-	Power (+5.0V), Analog ref.V for A/D conversion
35	AVDD	AVDD	-	-	-	-	-	Power (+5.0V)
36	AVSS	AVSS	-	-	-	-	-	GND (0V), Analog GND for A/D conversion
37	P40	KEYIN8	I	-	Pu	-	H	Key input 8 (Key matrix)
38	P41	KEYIN9	I	-	Pu	-	H	Key input 9 (Key matrix)
39	P42	KEYIN10	I	-	Pu	-	H	Key input 10 (Key matrix)
40	P43	KEYIN11	I	-	Pu	-	H	Key input 11 (Key matrix)
41	P44	KEYIN12	I	-	Pu	-	H	Key input 12 (Key matrix)
42	P45	KEYIN13	I	-	Pu	-	H	Key input 13 (Key matrix)
43	P46	KEYIN14	I	-	Pu	-	H	Key input 14 (Key matrix)
44	P47	KEYIN15	I	-	Pu	-	H	Key input 15 (Key matrix)

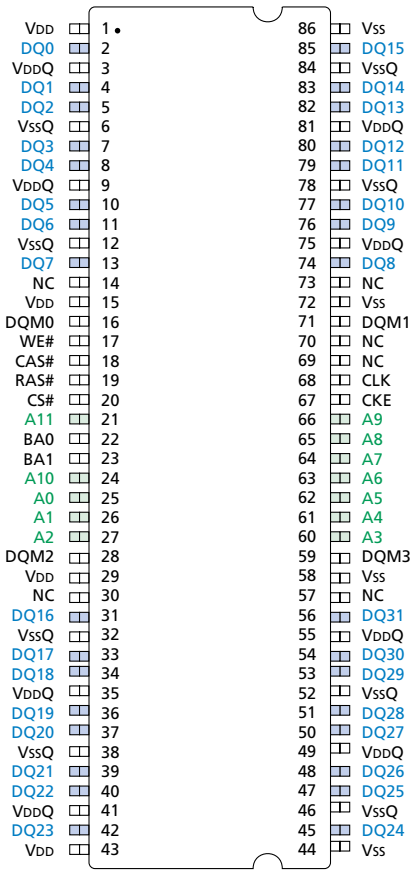
ADSST-MEL100 (DSP:IC101)



ADSST-MEL100 Terminal Function

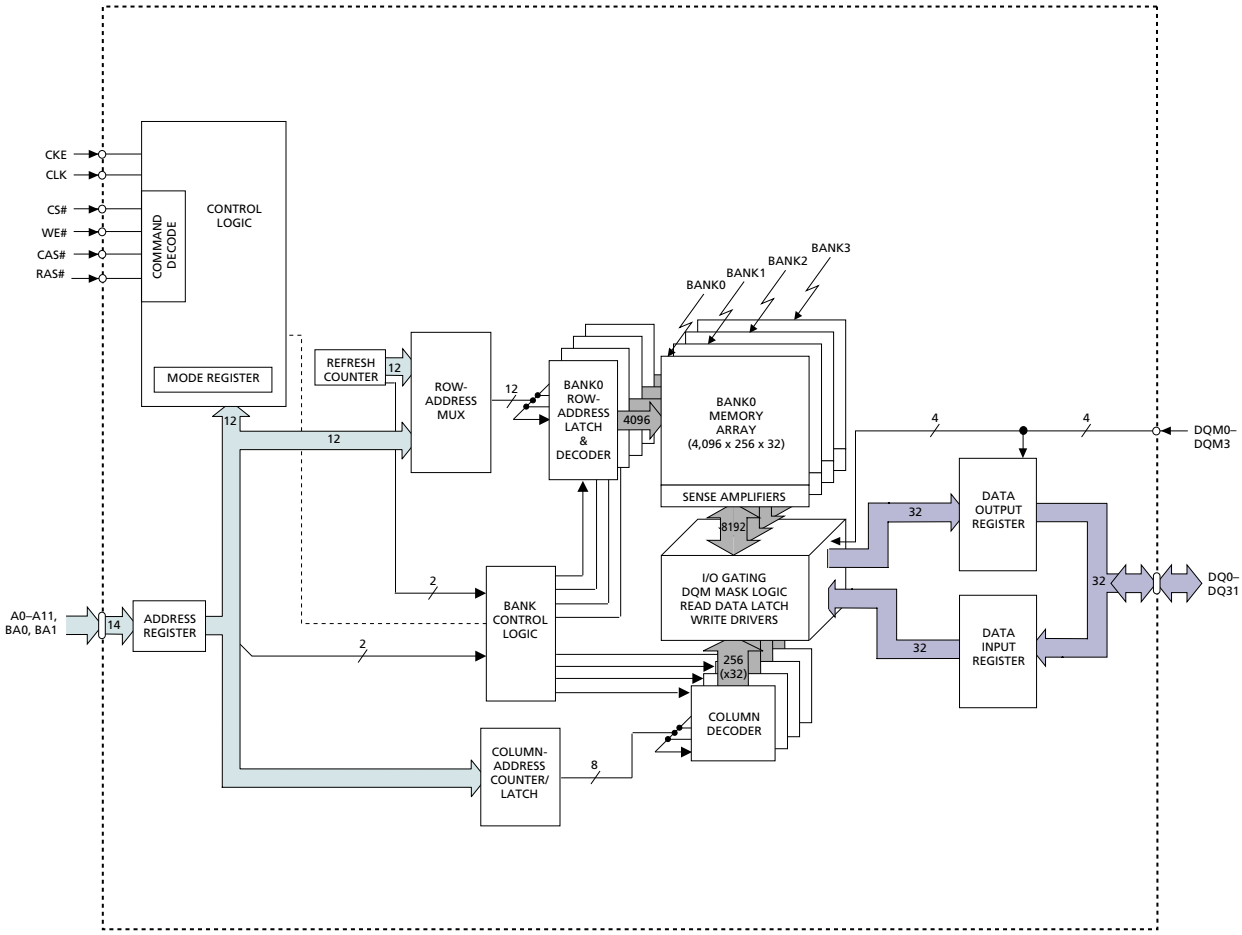
No.		Pin Name	No.		Pin Name	No.		Pin Name	No.		Pin Name	No.		Pin Name
A	1	NC	B	1	TRST_	C	1	TMS	D	1	TD0	E	1	FLAG10
A	2	BMSTR	B	2	TDI	C	2	EMU_	D	2	TCK	E	2	RESET_
A	3	BMS_	B	3	RPBA	C	3	GND	D	3	FLAG11	E	3	FLAG8
A	4	SPIDS_	B	4	MOSI	C	4	SPICLK	D	4	MISO	E	4	D0A
A	5	EBOOT	B	5	FS0	C	5	D0B	D	5	SCLK0	E	5	VDDEXT
A	6	LBOOT	B	6	SCLK1	C	6	D1A	D	6	D1B	E	6	VDDINT
A	7	SCLK2	B	7	D2B	C	7	D2A	D	7	FS1	E	7	VDDEXT
A	8	D3B	B	8	D3A	C	8	FS2	D	8	VDDINT	E	8	VDDINT
A	9	L0DAT[4]	B	9	L0DAT[7]	C	9	FS3	D	9	SCLK3	E	9	VDDEXT
A	10	L0ACK	B	10	L0CLK	C	10	L0DAT[6]	D	10	L0DAT[5]	E	10	VDDINT
A	11	L0DAT[2]	B	11	L0DAT[1]	C	11	L1DAT[7]	D	11	L0DAT[3]	E	11	VDDEXT
A	12	L1DAT[6]	B	12	L1DAT[4]	C	12	L1DAT[3]	D	12	L1DAT[5]	E	12	L0DAT[0]
A	13	L1CLK	B	13	L1ACK	C	13	L1DAT[1]	D	13	DATA[42]	E	13	DATA[39]
A	14	L1DAT[2]	B	14	L1DAT[0]	C	14	DATA[45]	D	14	DATA[46]	E	14	DATA[43]
A	15	NC	B	15	RSTOUT_	C	15	DATA[47]	D	15	DATA[44]	E	15	DATA[41]
No.		Pin Name	No.		Pin Name	No.		Pin Name	No.		Pin Name	No.		Pin Name
F	1	FLAG5	G	1	FLAG1	H	1	FLAG0	J	1	IRQ2_	K	1	TIMEXP
F	2	FLAG7	G	2	FLAG2	H	2	IRQ0_	J	2	ID1	K	2	ADDR[22]
F	3	FLAG9	G	3	FLAG4	H	3	VDDINT	J	3	ID2	K	3	ADDR[20]
F	4	FLAG6	G	4	FLAG3	H	4	IRQ1_	J	4	ID0	K	4	ADDR[23]
F	5	VDDINT	G	5	VDDEXT	H	5	VDDINT	J	5	VDDEXT	K	5	VDDINT
F	6	GND	G	6	GND	H	6	GND	J	6	GND	K	6	GND
F	7	GND	G	7	GND	H	7	GND	J	7	GND	K	7	GND
F	8	GND	G	8	GND	H	8	GND	J	8	GND	K	8	GND
F	9	GND	G	9	GND	H	9	GND	J	9	GND	K	9	GND
F	10	GND	G	10	GND	H	10	GND	J	10	GND	K	10	GND
F	11	VDDINT	G	11	VDDEXT	H	11	VDDINT	J	11	VDDEXT	K	11	VDDINT
F	12	DATA[37]	G	12	DATA[34]	H	12	DATA[29]	J	12	DATA[26]	K	12	DATA[22]
F	13	DATA[40]	G	13	DATA[35]	H	13	DATA[28]	J	13	DATA[24]	K	13	DATA[19]
F	14	DATA[38]	G	14	DATA[33]	H	14	DATA[30]	J	14	DATA[25]	K	14	DATA[21]
F	15	DATA[36]	G	15	DATA[32]	H	15	DATA[31]	J	15	DATA[27]	K	15	DATA[23]
No.		Pin Name	No.		Pin Name	No.		Pin Name	No.		Pin Name	No.		Pin Name
L	1	ADDR[19]	M	1	ADDR[16]	N	1	ADDR[14]	P	1	ADDR[13]	R	1	NC
L	2	ADDR[17]	M	2	ADDR[12]	N	2	ADDR[15]	P	2	ADDR[9]	R	2	ADDR[11]
L	3	ADDR[21]	M	3	ADDR[18]	N	3	ADDR[10]	P	3	ADDR[8]	R	3	ADDR[7]
L	4	ADDR[2]	M	4	ADDR[6]	N	4	ADDR[5]	P	4	ADDR[4]	R	4	ADDR[3]
L	5	VDDEXT	M	5	ADDR[0]	N	5	ADDR[1]	P	5	MS2	R	5	MS3
L	6	VDDINT	M	6	MS1	N	6	MS0	P	6	SBTS_	R	6	PA
L	7	VDDEXT	M	7	BR6	N	7	BR5	P	7	BR4	R	7	BR3
L	8	VDDINT	M	8	VDDEXT	N	8	BR2	P	8	BR1	R	8	RD
L	9	VDDEXT	M	9	WR	N	9	BRST	P	9	SDCLK1	R	9	CLKOUT
L	10	VDDINT	M	10	SDA10	N	10	SDCKE	P	10	SDCLK0	R	10	HBR
L	11	VDDEXT	M	11	RAS_	N	11	CS_	P	11	REDY	R	11	HBG
L	12	CAS_	M	12	ACK	N	12	CLK_CFG1	P	12	CLKIN	R	12	CLKDBL
L	13	DATA[20]	M	13	DATA[17]	N	13	CLK_CFG0	P	13	DQM	R	13	XTAL
L	14	DATA[16]	M	14	DMAG2	N	14	AVDD	P	14	AVSS	R	14	SDWE_
L	15	DATA[18]	M	15	DMAG1	N	15	DMAR1	P	15	DMAR2	R	15	NC

128M-SDRAM (DSP:IC102)



Note: The # symbol indicates signal is active LOW.

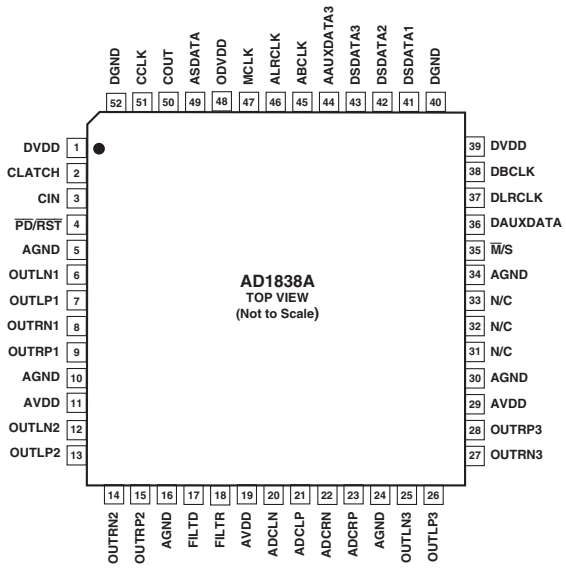
Block Diagram



128M-SDRAM Terminal Function

Pin NO.	Symbol	Type	Description
68	CLK	I	Clock
67	CKE	I	Clock Enable
20	CS#	I	Chip Select
17, 18, 19	WE#, CAS#, RAS#	I	Command Inputs
16, 71, 28, 59	DQM0-DQM3	I	Input/Outout Mask
22, 23	BA0, BA1	I	Bank Address Input(s)
21, 24-27, 60-66	A0-A11	I	Address Inputs
2, 4, 5, 7, 8, 10, 11, 13, 31, 33, 34, 36, 37, 39, 40, 42, 45, 47, 48, 50, 51, 53, 54, 56, 74, 76, 77, 79, 80, 82, 83, 85	DQ0-DQ31	I/O	Data I/Os
14, 30, 57, 69, 70, 73	NC	-	No Connect
3, 9, 35, 41, 49, 55, 75, 81	$V_{DD}Q$	Supply	DQ Power Supply
6, 12, 32, 38, 46, 52, 78, 84	$V_{SS}Q$	Supply	DQ Ground
1, 15, 29, 43	V_{DD}	Supply	Power Supply: +3.3V ±0.3V
44, 58, 72, 86	V_{SS}	Supply	Ground

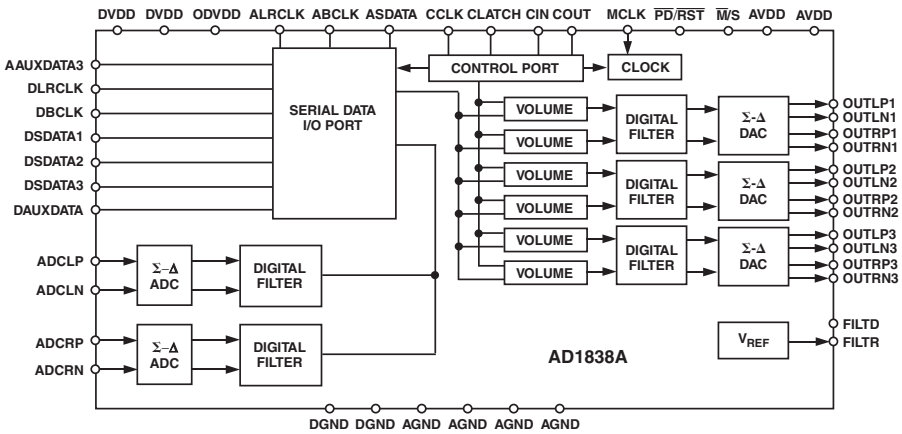
AD1838A (IC401,501)



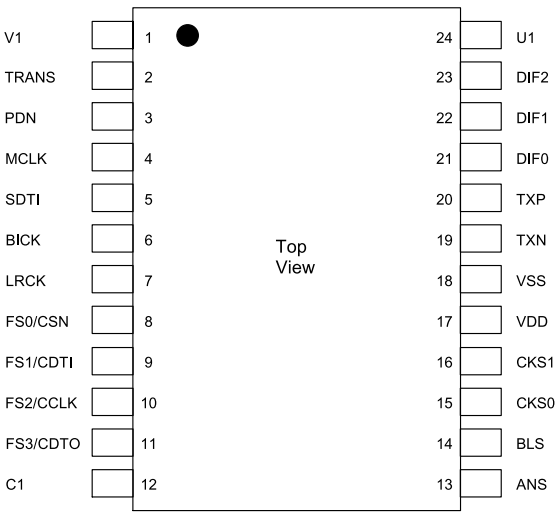
PIN FUNCTION DESCRIPTIONS

Pin No.	Mnemonic	Input/ Output	Description
1, 39	DVDD		Digital Power Supply. Connect to digital 5 V supply.
2	CLATCH	I	Latch Input for Control Data.
3	CIN	I	Serial Control Input.
4	PD/RST	I	Power-Down/Reset.
5, 10, 16, 24, 30, 34	AGND		Analog Ground.
6, 12, 25	OUTLNx	O	DACx Left Channel Negative Output.
7, 13, 26	OUTLPx	O	DACx Left Channel Positive Output.
8, 14, 27	OUTRNx	O	DACx Right Channel Negative Output.
9, 15, 28	OUTRPx	O	DACx Right Channel Positive Output.
11, 19, 29	AVDD		Analog Power Supply. Connect to analog 5 V supply.
17	FILTD		Filter Capacitor Connection. Recommended 10 µF/100 nF.
18	FILTR		Reference Filter Capacitor Connection. Recommended 10 µF/100 nF.
20	ADCLN	I	ADC Left Channel Negative Input.
21	ADCLP	I	ADC Left Channel Positive Input.
22	ADCRN	I	ADC Right Channel Negative Input.
23	ADCRP	I	ADC Right Channel Positive Input.
31–33	N/C		Not Connected.
35	M/S	I	ADC Master/Slave Select.
36	DAUXDATA	O	Auxiliary DAC Output Data.
37	DLRCLK	I/O	DAC LR Clock.
38	DBCLK	I/O	DAC Bit Clock.
40, 52	DGND		Digital Ground.
41–43	DSDATAx	I	DACx Input Data (Left and Right Channels).
44	AAUXDATA3	I	Auxiliary ADC3 Digital Input.
45	ABCLK	I/O	ADC Bit Clock.
46	ALRCLK	I/O	ADC LR Clock.
47	MCLK	I	Master Clock Input.
48	ODVDD		Digital Output Driver Power Supply.
49	ASDATA	O	ADC Serial Data Output.
50	COUT	O	Output for Control Data.
51	CCLK	I	Control Clock Input for Control Data.

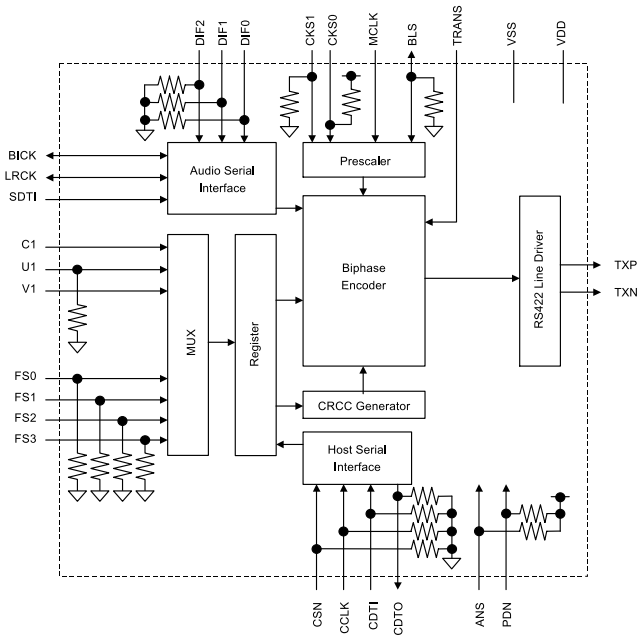
FUNCTIONAL BLOCK DIAGRAM



AK4103A (IC502)



Block Diagram



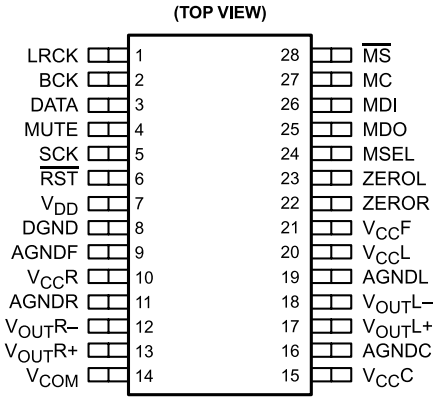
AK4103A PIN/FUNCTION

No.	Pin Name	I/O	Description
1	V1	I	Validity Bit Input Pin
2	TRANS	I	Audio Routing Mode (Transparent Mode) Pin at Synchronous mode 0: Normal mode, 1: Audio routing mode (transparent mode)
3	PDN	I	Power Down & Reset Pin (Pull-up Pin) When "L", the AK4103A is powered-down, TXP/N pins are "L" and the control registers are reset to default values.
4	MCLK	I	Master Clock Input Pin
5	SDTI	I	Audio Serial Data Input Pin
6	BICK	I/O	Audio Serial Data Clock Input/Output Pin Serial Clock for SDTI pin which can be configured as an output based on the DIF2-0 inputs.
7	LRCK	I/O	Input/Output Channel Clock Pin Indicates left or right channel, and can be configured as an output based on the DIF2-0 inputs.
8	FS0	I	Sampling Frequency Select 0 Pin at Synchronous mode (Pull-down Pin)
	CSN	I	Host Interface Chip Select Pin at Asynchronous mode (Pull-down Pin)
	AKMODE	I	AK4112B Mode Pin at Audio routing mode (Pull-down Pin) 0: Non-AKM receivers mode, 1: AK4112B mode
9	FS1	I	Sampling Frequency Select 1 Pin at Synchronous mode (Pull-down Pin)
	CDTI	I	Host Interface Data Input Pin at Asynchronous mode (Pull-down Pin)
10	FS2	I	Sampling Frequency Select 2 Pin at Synchronous mode (Pull-down Pin)
	CCLK	I	Host Interface Bit Clock Input Pin at Asynchronous mode (Pull-down Pin)
11	FS3	I	Sampling Frequency Select 3 Pin at Synchronous mode (Pull-down Pin)
	CDTO	O	Host Interface Data Output Pin at Asynchronous mode (Pull-down Pin)
12	C1	I	Channel Status Bit Input Pin
13	ANS	I	Asynchronous/Synchronous Mode Select Pin (Pull-up Pin) 0: Asynchronous mode, 1: Synchronous mode
14	BLS	I/O	Block Start Input/Output Pin (Pull-down Pin) In normal mode, the channel status block output is "H" for the first four bytes. In audio routing mode, the pin is configured as an input. When PDN pin = "L", BLS pin goes "H" at Normal mode.
15	CKS0	I	Clock Mode Select 0 Pin (Pull-up Pin)
16	CKS1	I	Clock Mode Select 1 Pin (Pull-down Pin)
17	VDD	-	Power Supply Pin, 4.75V 5.25V
18	VSS	-	Ground Pin, 0V
19	TXN	O	Negative Differential Output Pin
20	TXP	O	Positive Differential Output Pin
21	DIF0	I	Audio Serial Interface Select 0 Pin (Pull-down Pin)
22	DIF1	I	Audio Serial Interface Select 1 Pin (Pull-down Pin)
23	DIF2	I	Audio Serial Interface Select 2 Pin (Pull-down Pin)
24	U1	I	User Data Bit Input Pin for Channel 1 (Pull-down Pin)

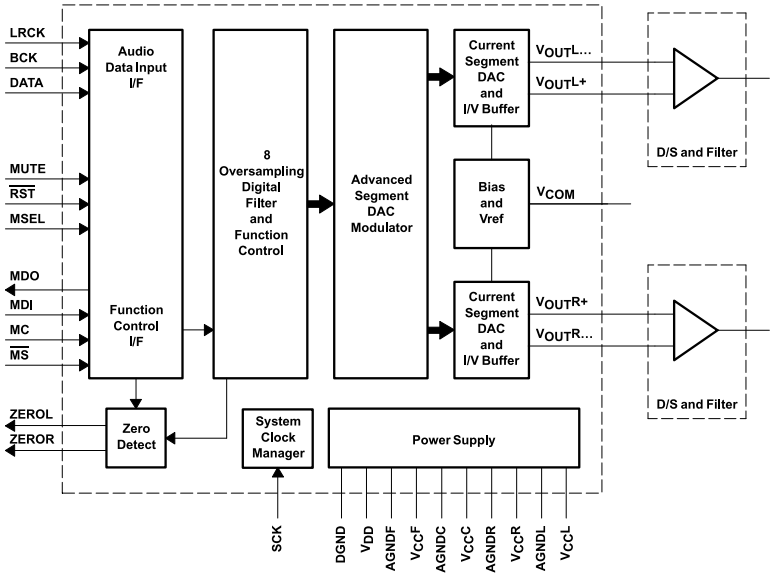
Notes:

1. Internal pull-up and pull-down resistors are connected on-chip. The value of the resistors is 43k (typ).
2. All input pins except internal pull-down/pull-up pins should not be left floating.

PCM1791A (IC402)



FUNCTIONAL BLOCK DIAGRAM

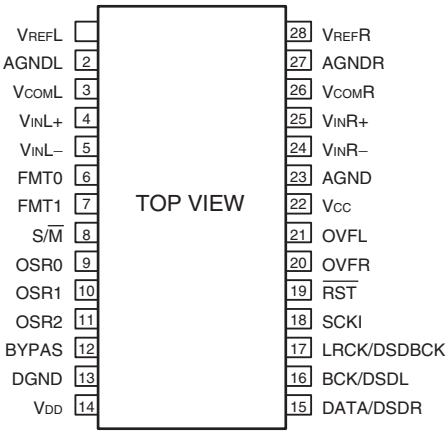


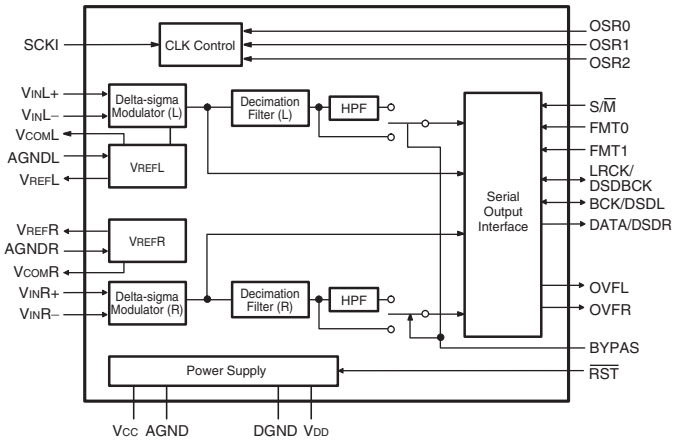
Terminal Functions

TERMINAL NAME	TERMINAL PIN	I/O	DESCRIPTIONS
AGNDC	16	–	Analog ground (internal bias and current DAC)
AGNDF	9	–	Analog ground (DACFF)
AGNDL	19	–	Analog ground (L-channel I/V)
AGNDR	11	–	Analog ground (R-channel I/V)
BCK	2	I	Bit clock input. Connected to GND for DSD mode (1)
DATA	3	I	Serial audio data input for normal operation. L-channel audio data input for external DF and DSD modes (1)
DGND	8	–	Digital ground
LRCK	1	I	Left and right clock (f_S) input for normal operation. WDCK clock input in external DF mode. R-channel audio data for DSD mode (1)
MC	27	I	Shift clock for function control register (1)
MDI	26	I/O	Serial data input for function control register (2)
MDO	25	O	Serial data output for function control register (3)
$\overline{MS}$	28	I/O	Mode control chip select and latch signal (4)
MSEL	24	I	$I^2C/\overline{SPI}$ select (1)
MUTE	4	I	Analog output mute control for normal operation. R-channel audio data input for external DF mode (1)
$\overline{RST}$	6	I	Reset (1)
SCK	5	I	System clock input. BCK (64 f_S) clock input for DSD mode (1)
$V_{CC}C$	15	–	Analog power supply (internal bias and current DAC), 5 V
$V_{CC}F$	21	–	Analog power supply (DACFF), 5 V
$V_{CC}L$	20	–	Analog power supply (L-channel I/V), 5 V
$V_{CC}R$	10	–	Analog power supply (R-channel I/V), 5 V
V_{COM}	14	–	Internal bias decoupling pin
V_{DD}	7	–	Digital power supply, 3.3 V
$V_{OUT}L+$	17	O	L-channel analog voltage output +
$V_{OUT}L–$	18	O	L-channel analog voltage output –
$V_{OUT}R+$	13	O	R-channel analog voltage output +
$V_{OUT}R–$	12	O	R-channel analog voltage output –
ZEROL	23	O	Zero flag for L-channel
ZEROR	22	O	Zero flag for R-channel

(1) Schmitt-trigger input, 5-V tolerant
(2) Schmitt-trigger input and output. 5-V tolerant input. In I^2C mode, this pin becomes an open-drain 3-state output; otherwise, this pin is a CMOS output.
(3) 3-state output
(4) Schmitt-trigger input and output. 5-V tolerant input and CMOS output

PCM1804 (IC301,305,309,313)



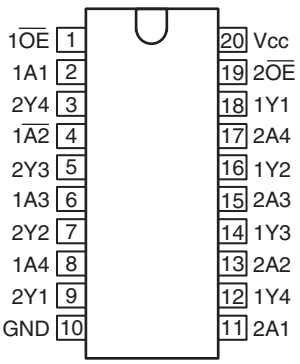


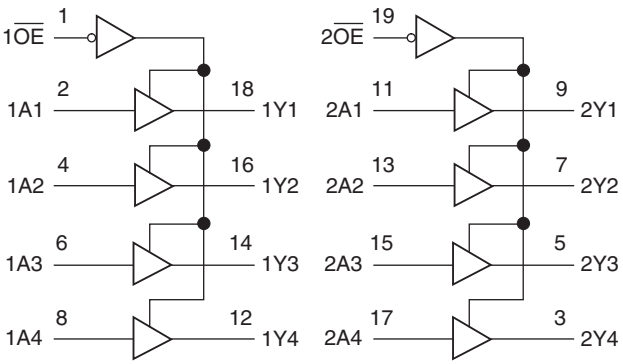
PCM1804 Terminal Function

Pin No.	Pin Name	I/O	Function
1	VREFL	—	L-channel voltage reference output, requires capacitors for decoupling to AGND.
2	AGNDL	—	Analog ground for VREFL.
3	VCOML	—	L-channel analog common mode output.
4	VINL+	I	L-channel analog input, positive pin.
5	VINL–	I	L-channel analog input, negative pin.
6	FMT0	I	Audio data format 0. See TABLE V. *
7	FMT1	I	Audio data format 1. See TABLE V. *
8	S/$\overline{M}$	I	Master/slave mode selection. See TABLE IV. *
9	OSR0	I	Oversampling ratio 0. See TABLE I. TABLE II. *
10	OSR1	I	Oversampling ratio 1. See TABLE I. TABLE II. *
11	OSR2	I	Oversampling ratio 2. See TABLE I. TABLE II. *
12	BYPAS	I	HPF bypass control. HIGH: HPF disable, LOW: HPF enable. ***
13	DGND	—	Digital ground.
14	VDD	—	Digital power supply.
15	DATA/DSDR	O	L-channel and R-channel audio data output in PCM mode. R-channel Audio data output in DSD mode.(DSD output, when DSD mode)
16	BCK/DSDL	I/O	Bit clock input/output in PCM mode. L-channel audio data output in DSD mode. ***
17	LRCK/DSDBCK	I/O	Sampling clock input/output in PCM and DSD mode. ***
18	SCKI	I	System clock input; 128fs, 256fs, 384fs, 512fs or 768fs. **
19	$\overline{RST}$	I	Reset, power down input, active LOW. *
20	OVFR	O	Overflow signal of R-channel in PCM mode. This is available in PCM mode only.
21	OVFL	O	Overflow signal of L-channel in PCM mode. This is available in PCM mode only.
22	VCC	—	Analog power supply.
23	AGND	—	Analog ground.
24	VINR–	I	R-channel analog input, negative pin.
25	VINR+	I	R-channel analog input, positive pin.
26	VCOMR	—	R-channel analog common mode output.
27	AGNDR	—	Analog ground for VREFR.
28	VREFR	—	R-channel voltage reference output, requires capacitors for decoupling to AGND.

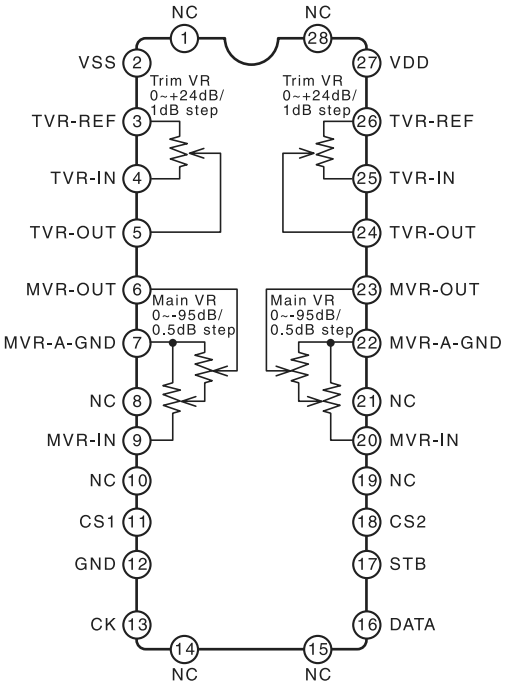
* Schmitt trigger input with internal pull-down (51kW typically), 5V tolerant.
** Schmitt trigger input, 5V tolerant.
*** Schmitt trigger input.

SN74LV244APW (IC709, DSP:IC106)

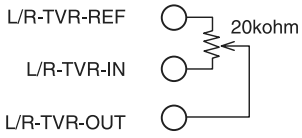
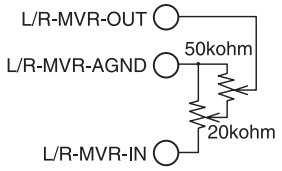




TC94A32F (IC502,505,508,511,513)

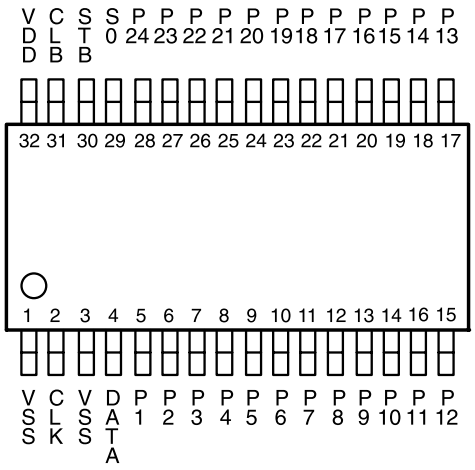


TC94A32F Terminal Function

Pin No.	Pin Name	Function
2	VSS	
27	VDD	
12	GND	
3	L-TVR-REF	Trim volume circuit 
26	R-TVR-REF	
4	L-TVR-IN	
25	R-TVR-IN	
5	L-TVR-OUT	
24	R-TVR-OUT	
6	L-MVR-OUT	Main volume circuit 
23	R-MVR-OUT	
7	L-MVR-AGND	
22	R-MVR-AGND	
9	L-MVR-IN	
20	R-MVR-IN	
11	CS1	Chip select code switching input
18	CS2	
13	CK	Clock input pin for data transfer
16	DATA	A-SW control data input pin
17	STB	Strobe input pin for data writing
1, 28, 8, 21, 10,19, 14,15	NC	

CS1	CS2	Chip select code			
L	L	0	0	0	1
H	L	1	0	0	1
L	H	0	1	0	1
H	H	1	1	0	1

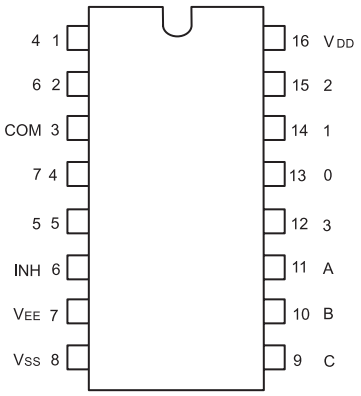
BU2152FS (IC305,701,702,703,704)



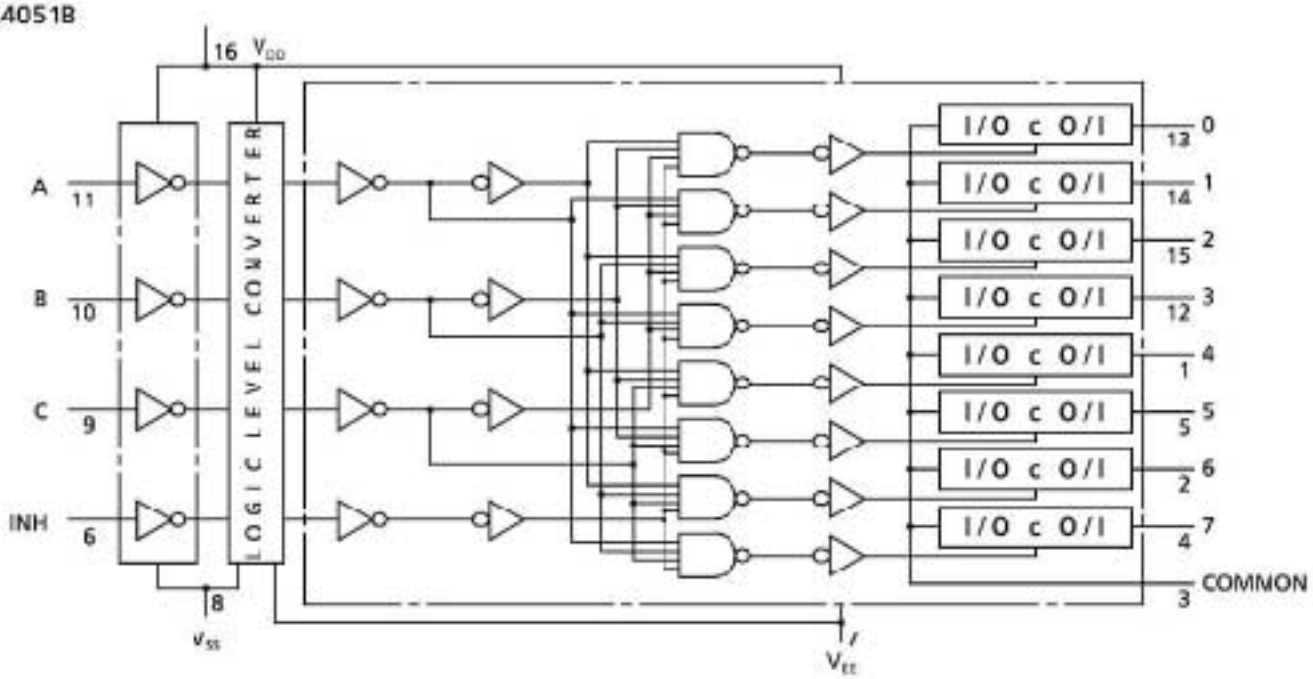
BU2152FS Terminal Function

Pin No.	Pin Name	I/O	Function
1	VSS	-	Ground pin
2	CLK	I	Clock signal input
3	VSS	-	Ground pin
4	DATA	I	Ground pin
5	P1	O	Parallel data output
6	P2	O	
7	P3	O	
8	P4	O	
9	P5	O	
10	P6	O	
11	P7	O	
12	P8	O	
13	P9	O	
14	P10	O	
15	P11	O	
16	P12	O	
17	P13	O	
18	P14	O	
19	P15	O	
20	P16	O	
21	P17	O	
22	P18	O	
23	P19	O	
24	P20	O	
25	P21	O	
26	P22	O	
27	P23	O	
28	P24	O	
29	S0	O	Cascade output
30	STB	I	Strobe signal input " L " active
31	CLB	I	Clear signal input " L " active
32	VDD	-	Power Supply pin

TC4051BF (IC306,307,705,706,707,708)



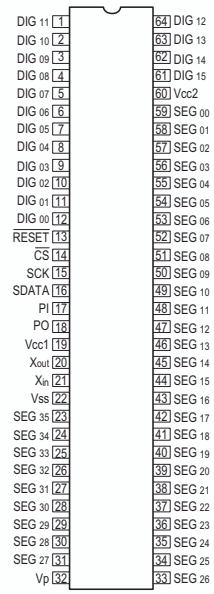
TC4051B

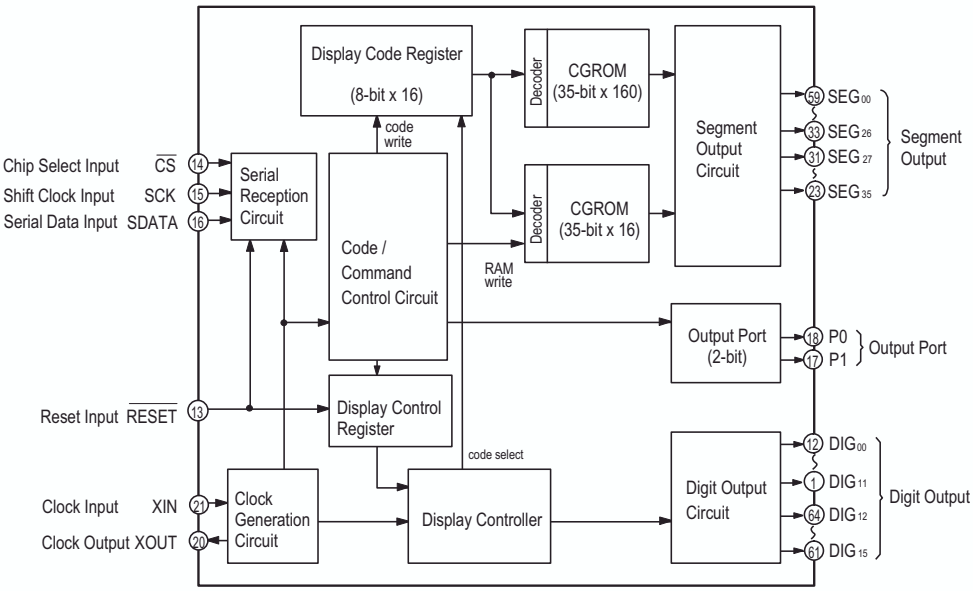


CONTROL INPUTS				"ON" CHANNEL		
INHIBIT	C△	B	A	TC4051B	TC4052B	TC4053B
L	L	L	L	0	0X, 0Y	0X,0Y,0Z
L	L	L	H	1	1X, 1Y	1X,0Y,0Z
L	L	H	L	2	2X, 2Y	0X,1Y,0Z
L	L	H	H	3	3X, 3Y	1X,1Y,0Z
L	H	L	L	4	—	0X,0Y,1Z
L	H	L	H	5	—	1X,0Y,1Z
L	H	H	L	6	—	0X,1Y,1Z
L	H	H	H	7	—	1X,1Y,1Z
H	*	*	*	NONE	NONE	NONE

*: Don't Care △ Except TC4052B

M66005AFP (IC201)





M66005AFP Terminal Function

Symbol	Name	Function
$\overline{\text{RESET}}$	Reset Input	Initialzes internal state of M66005.
$\overline{\text{CS}}$	Chip Select Input	Able to communicate with MCU in "L" mode. Command from MCU will be disregareded in "H" mode.
SCK	Shift Clock Input	Shifts input data at rise from "L" to "H".
SDATA	Serial Data Input	Inputs character code or command data needed to display from MSB.
X_{IN}	Clock Input	Sets oscillation frquency by connecting external resistor and capacitor (maximum oscillation frequency fosc (max)=1MHz). Also feasible to apply external clock. In this case, inject external clock to Xin terminal and open Xout terminal.
X_{OUT}	Clock Output	
DIG 00~ DIG 15	Digit Output	Connect to digit terminal of VFD. DIG00~DIG15 correspond to the 1st figure to 16th figure respectively.
SEG 00~ SEG 35	Segment Output	Connect to segment terminal of VFD. For corresponding SEG00~SEG35 to segment terminal of VFD, refer to the figure right.
P0, P1		Output port (static operation).
V_{CC1}		Positive power supply terminal for internal logic.
V_{CC2}		Positive power supply terminal for high tension output port.
Vss		GND terminal.
Vp		Negative power supply terminal for VFD drive.

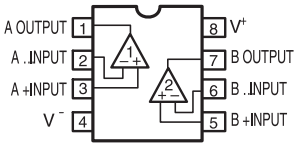
(Forwarding connection of segment output terminal.)

☐ in the right figure indicates 1 dot of segment, the figure in ☐ shows the segment output terminal number (00~35) to be connected.

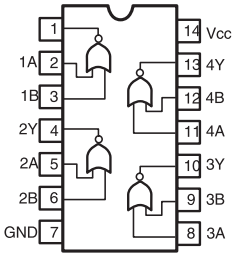
00	01	02	03	04
05	06	07	08	09
10	11	12	13	14
15	16	17	18	19
20	21	22	23	24
25	26	27	28	29
30	31	32	33	34

35

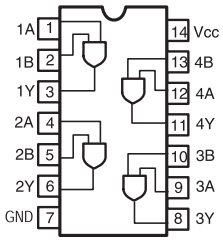
BA4510F(IC302~316)
NJM2068MD(IC317~320)
NJM4556AD(IC708)



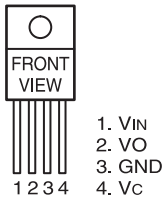
SN74LV02APW(DSP:IC114)



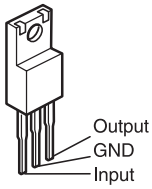
SN74LV08APW(IC104,DSP:IC115)
SN74AHCT08PW (IC107)



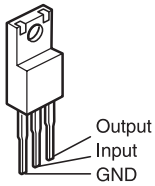
PQ018EF01SZ
(IC106)



NJM7815FA(S)(IC906)

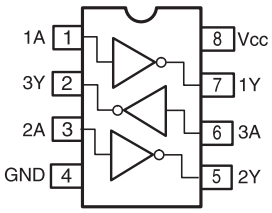


NJM7915FA (IC907)

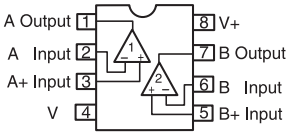


BA05T (IC901,902,905)

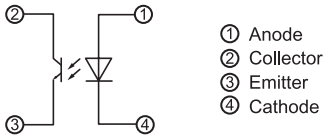
TC7WU04F (IC403,503)



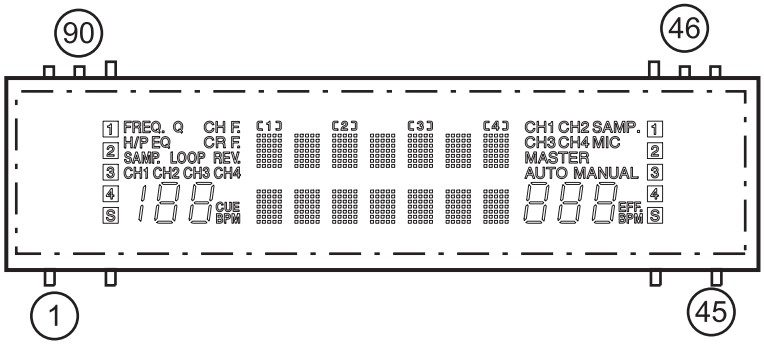
UPC4570C (IC601,602)



GP1S094HCZ (IC401,402,403,404)



FL DISPLAY 16-ST-73GN (FL201)



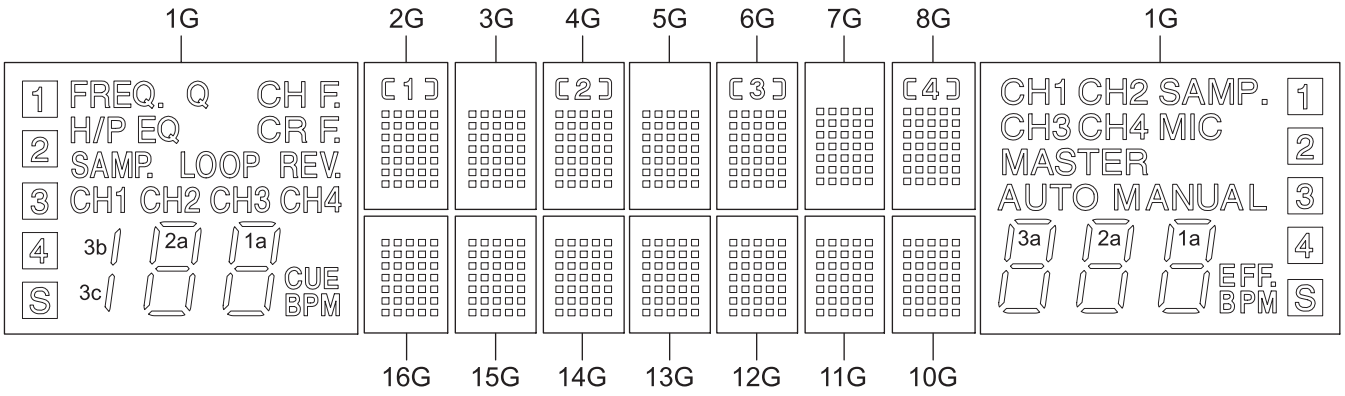
PIN CONNECTION

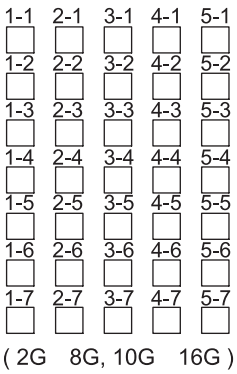
PIN NO.	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46
CONNECTION	NP	NP	NP	NP	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	IC	NC	NC	NC	NC	NC	NC	NC	NC	NC	PS	P35	P34	P33	P32	P31	P30	P29	P28	NC	NC	NC	NC	NC	NC	NC	NP	NP	NP	NP

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
CONNECTION	F1	F1	NP	NP	13G	14G	15G	16G	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27	NC	NC	NC	NC	NC	IC	NP	NP	F2	F2

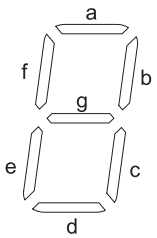
NOTE
1) F1 , F2 − − − Filament
2) NP − − − − − No pin
3) NC − − − − − No connection
(NC) pin should be electrically open on the PC board
4) DL − − − − − Datum Line
5) 1G 16G Grid
6) IC − − − − − Internal conection
(IC) pin should be electrically open on the PC board

GRID ASSIGNMENT





(2G 8G, 10G 16G)

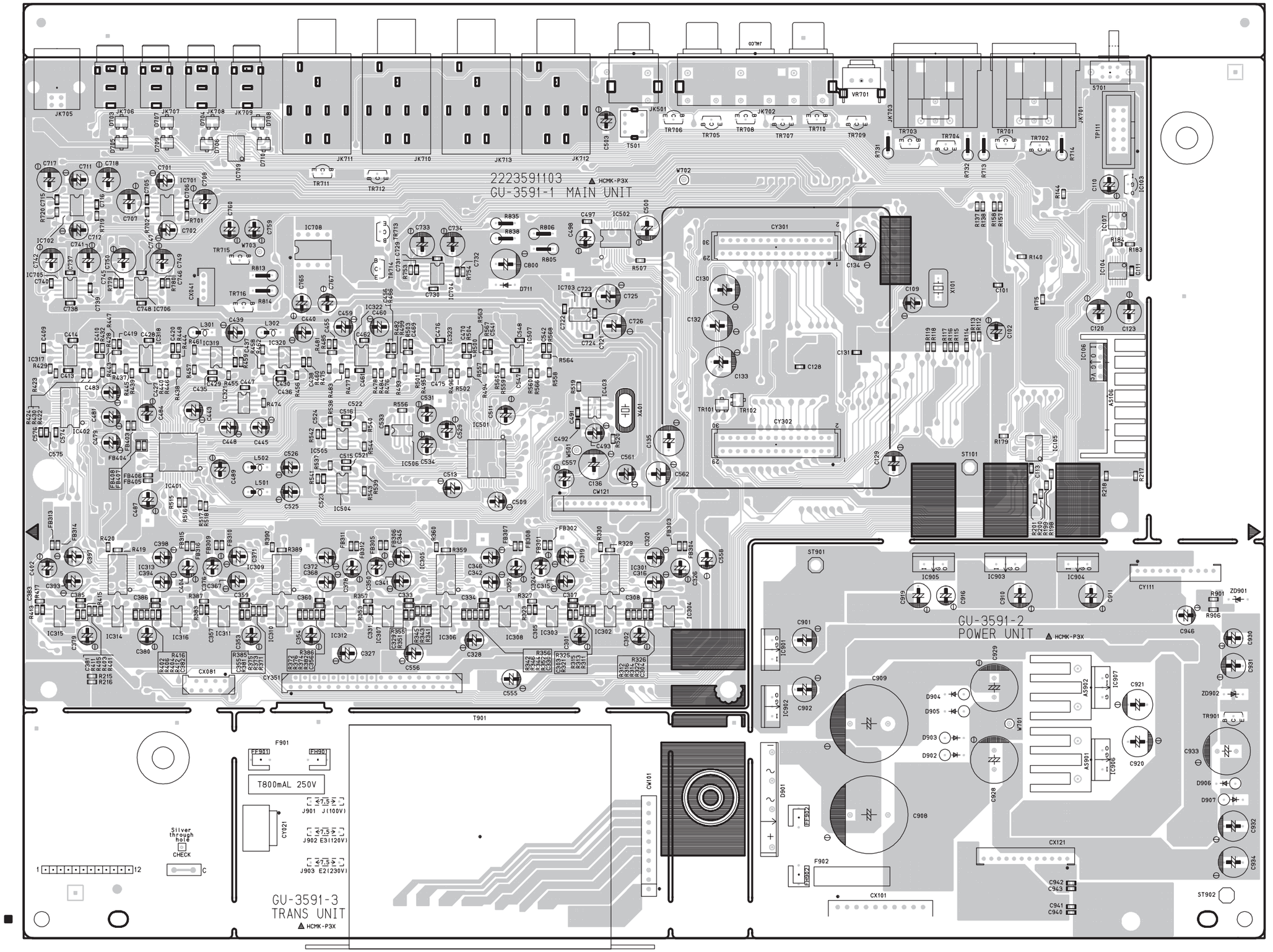


(1G , 9G)

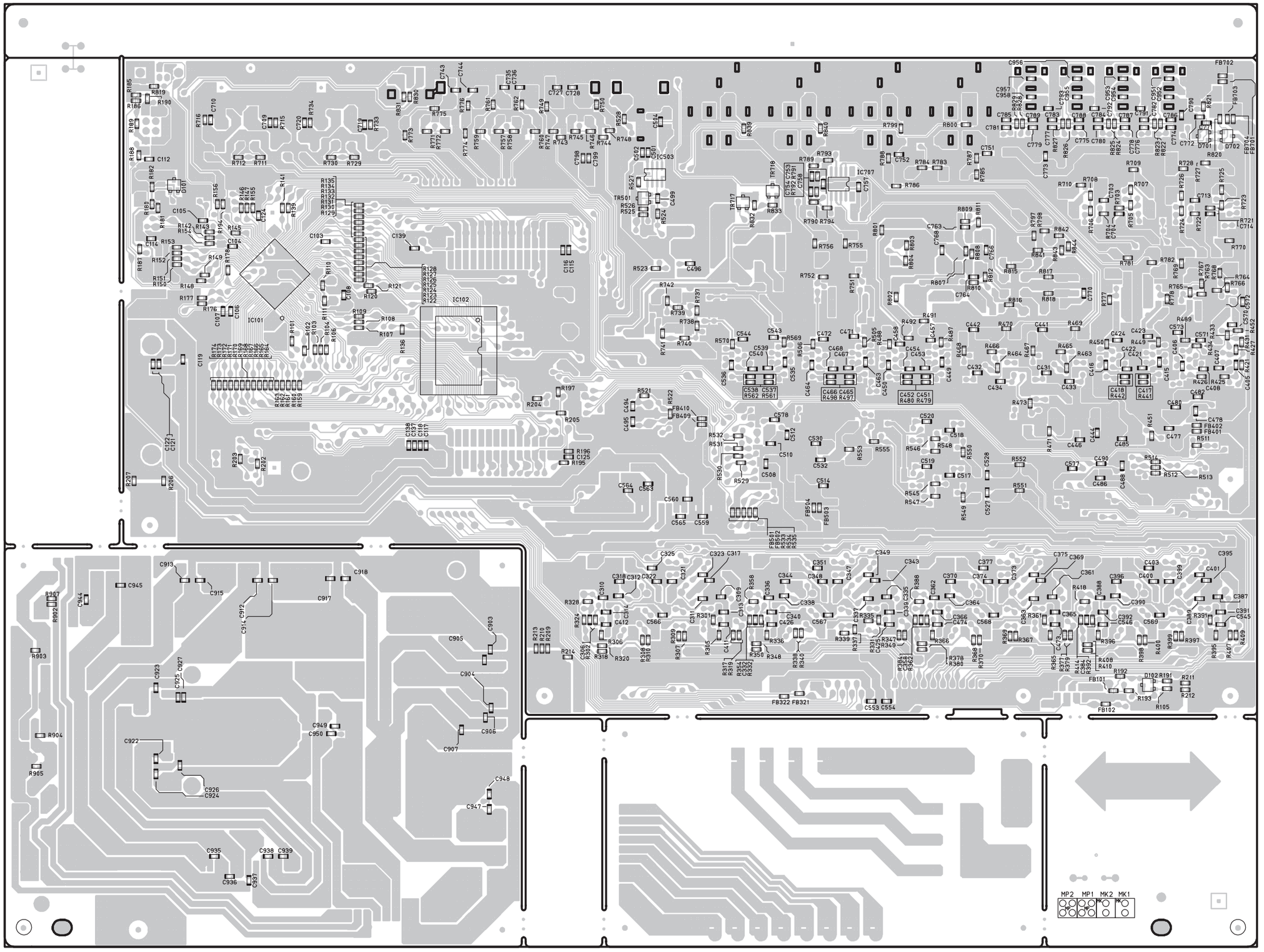
ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G 16G
P1	CH1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	3a	1 1
P2	CH2	2 1	2 1	2 1	2 1	2 1	2 1	2 1	3b	2 1
P3	CH3	3 1	3 1	3 1	3 1	3 1	3 1	3 1	3f	3 1
P4	CH4	4 1	4 1	4 1	4 1	4 1	4 1	4 1	3g	4 1
P5	1	5 1	5 1	5 1	5 1	5 1	5 1	5 1	3c	5 1
P6	2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	3e	1 2
P7	3	2 2	2 2	2 2	2 2	2 2	2 2	2 2	3d	2 2
P8	4	3 2	3 2	3 2	3 2	3 2	3 2	3 2	2a	3 2
P9	S	4 2	4 2	4 2	4 2	4 2	4 2	4 2	2b	4 2
P10	3b , 3c	5 2	5 2	5 2	5 2	5 2	5 2	5 2	2f	5 2
P11	2a	1 3	1 3	1 3	1 3	1 3	1 3	1 3	2g	1 3
P12	2b	2 3	2 3	2 3	2 3	2 3	2 3	2 3	2c	2 3
P13	2f	3 3	3 3	3 3	3 3	3 3	3 3	3 3	2e	3 3
P14	2g	4 3	4 3	4 3	4 3	4 3	4 3	4 3	2d	4 3
P15	2c	5 3	5 3	5 3	5 3	5 3	5 3	5 3	1a	5 3
P16	2e	1 4	1 4	1 4	1 4	1 4	1 4	1 4	1b	1 4
P17	2d	2 4	2 4	2 4	2 4	2 4	2 4	2 4	1f	2 4
P18	1a	3 4	3 4	3 4	3 4	3 4	3 4	3 4	1g	3 4
P19	1b	4 4	4 4	4 4	4 4	4 4	4 4	4 4	1c	4 4
P20	1f	5 4	5 4	5 4	5 4	5 4	5 4	5 4	1e	5 4
P21	1g	1 5	1 5	1 5	1 5	1 5	1 5	1 5	1d	1 5
P22	1c	2 5	2 5	2 5	2 5	2 5	2 5	2 5	EFF. BPM	2 5
P23	1e	3 5	3 5	3 5	3 5	3 5	3 5	3 5	1	3 5
P24	1d	4 5	4 5	4 5	4 5	4 5	4 5	4 5	2	4 5
P25	CUE BPM	5 5	5 5	5 5	5 5	5 5	5 5	5 5	3	5 5
P26		1 6	1 6	1 6	1 6	1 6	1 6	1 6	4	1 6
P27		2 6	2 6	2 6	2 6	2 6	2 6	2 6	S	2 6
P28		3 6	3 6	3 6	3 6	3 6	3 6	3 6	CH1	3 6
P29	CH F.	4 6	4 6	4 6	4 6	4 6	4 6	4 6	CH2	4 6
P30	CR F.	5 6	5 6	5 6	5 6	5 6	5 6	5 6	CH3	5 6
P31	Q	1 7	1 7	1 7	1 7	1 7	1 7	1 7	CH4	1 7
P32	FREQ.	2 7	2 7	2 7	2 7	2 7	2 7	2 7	SAMP.	2 7
P33	H/P EQ	3 7	3 7	3 7	3 7	3 7	3 7	3 7	MIC	3 7
P34	SAMP.	4 7	4 7	4 7	4 7	4 7	4 7	4 7	MASTER	4 7
P35	LOOP	5 7	5 7	5 7	5 7	5 7	5 7	5 7	MANUAL	5 7
P36	REV.	〔1〕		〔2〕		〔3〕		〔4〕	AUTO	

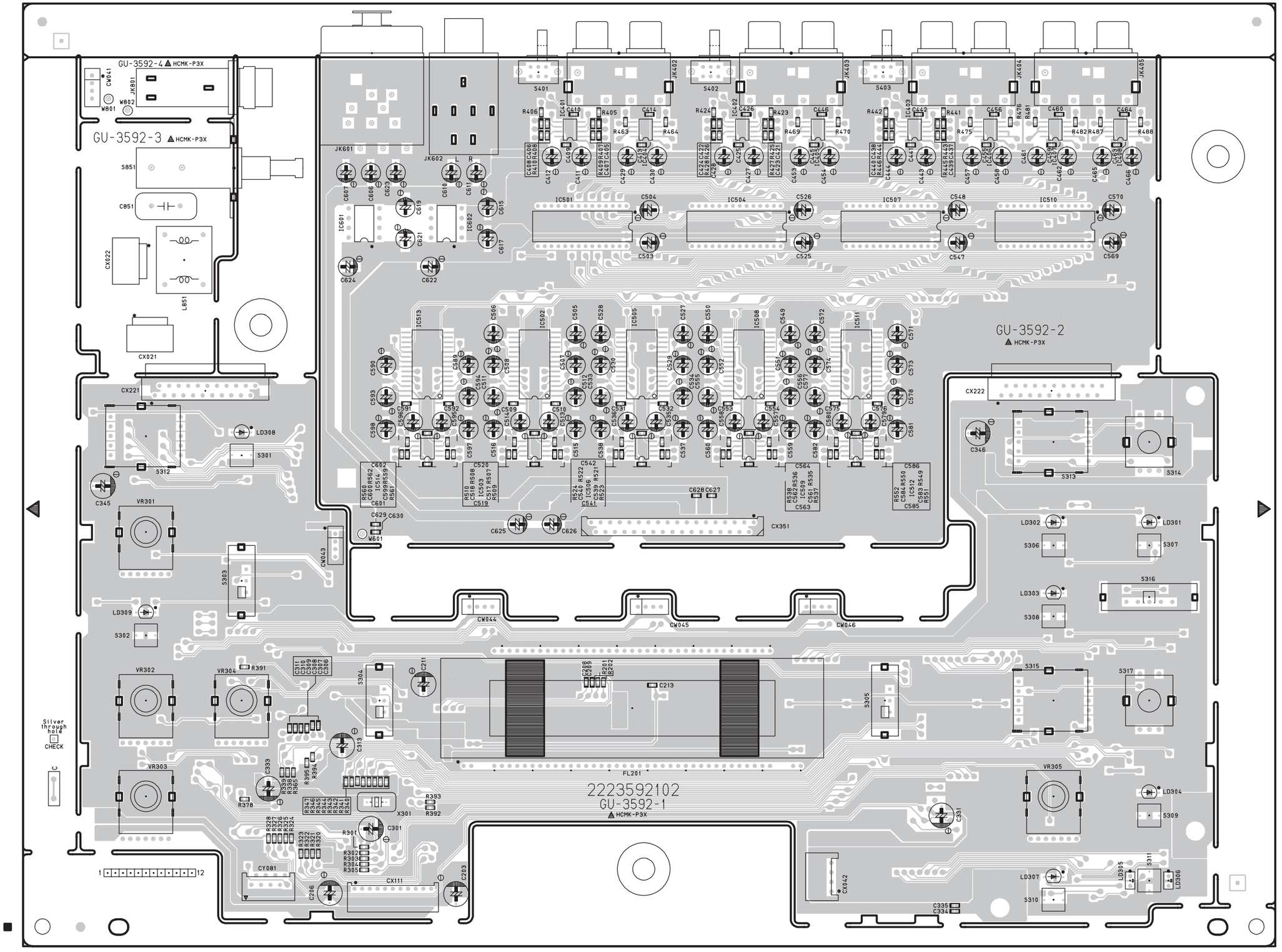
GU-3591 MAIN / POWER P.W.B. UNIT ASS'Y COMPONENT SIDE



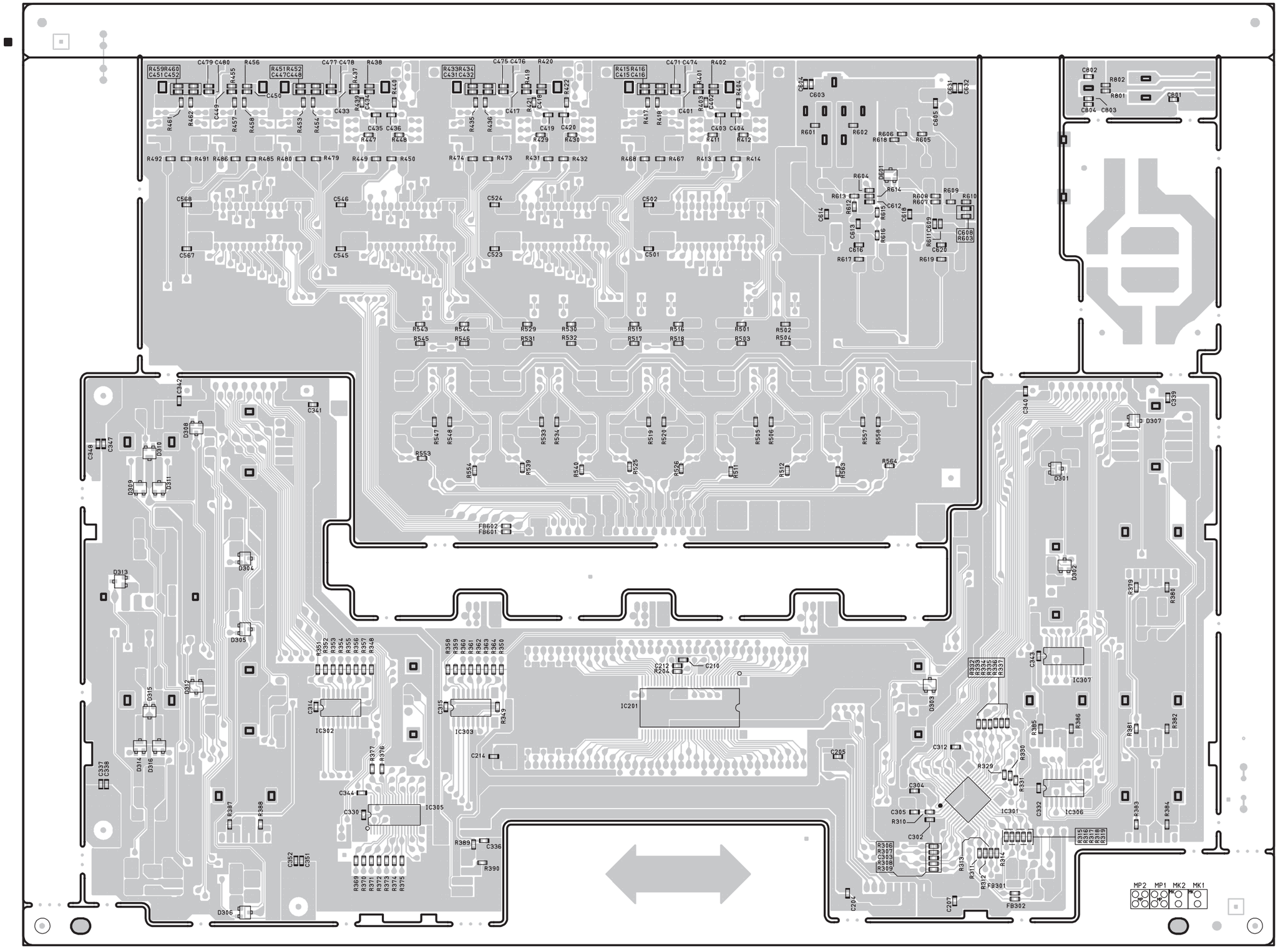
GU-3591 MAIN / POWER P.W.B. UNIT ASS'Y FOIL SIDE



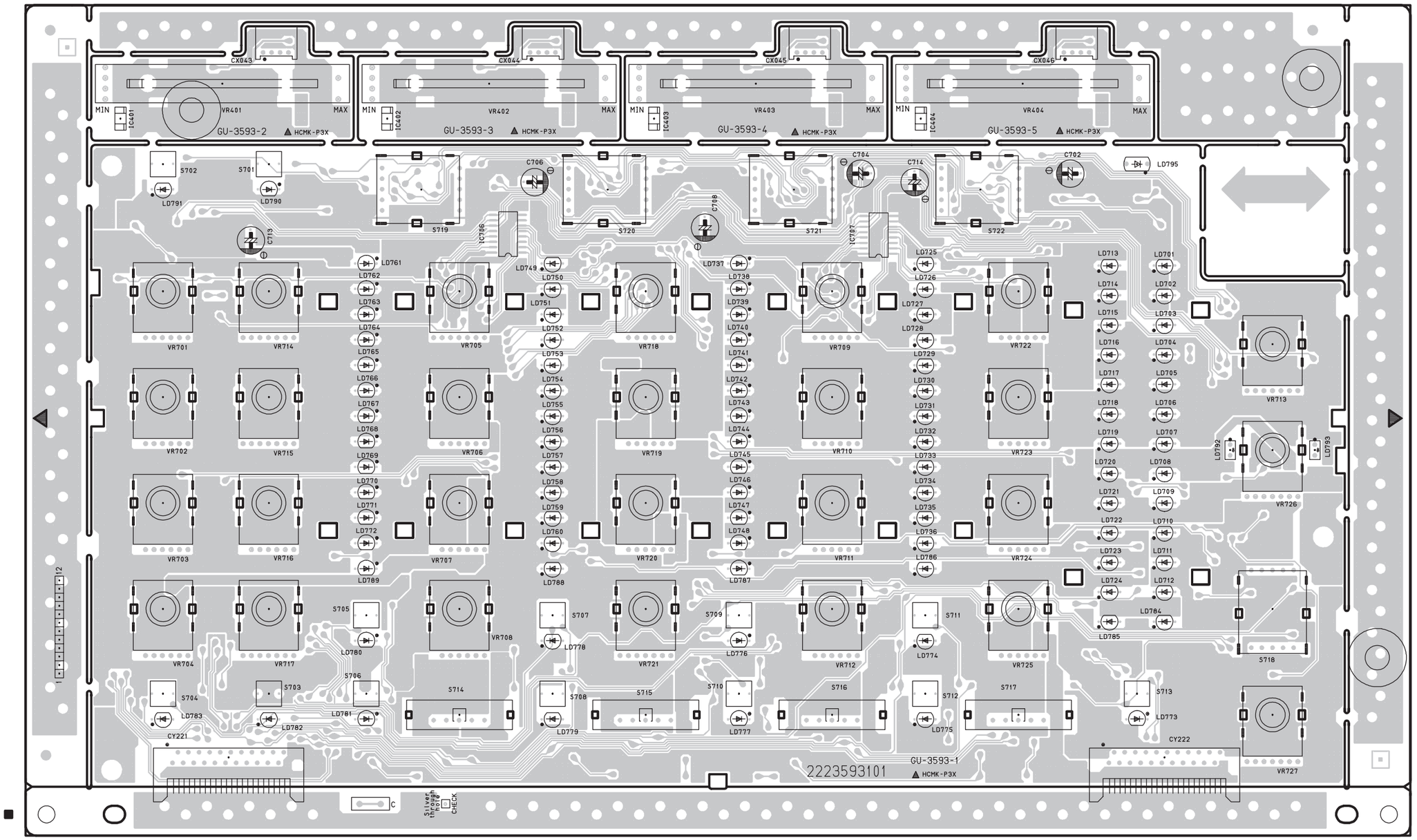
GU-3592 P.uCOM / INPUT P.W.B. UNIT ASS'Y COMPONENT SIDE



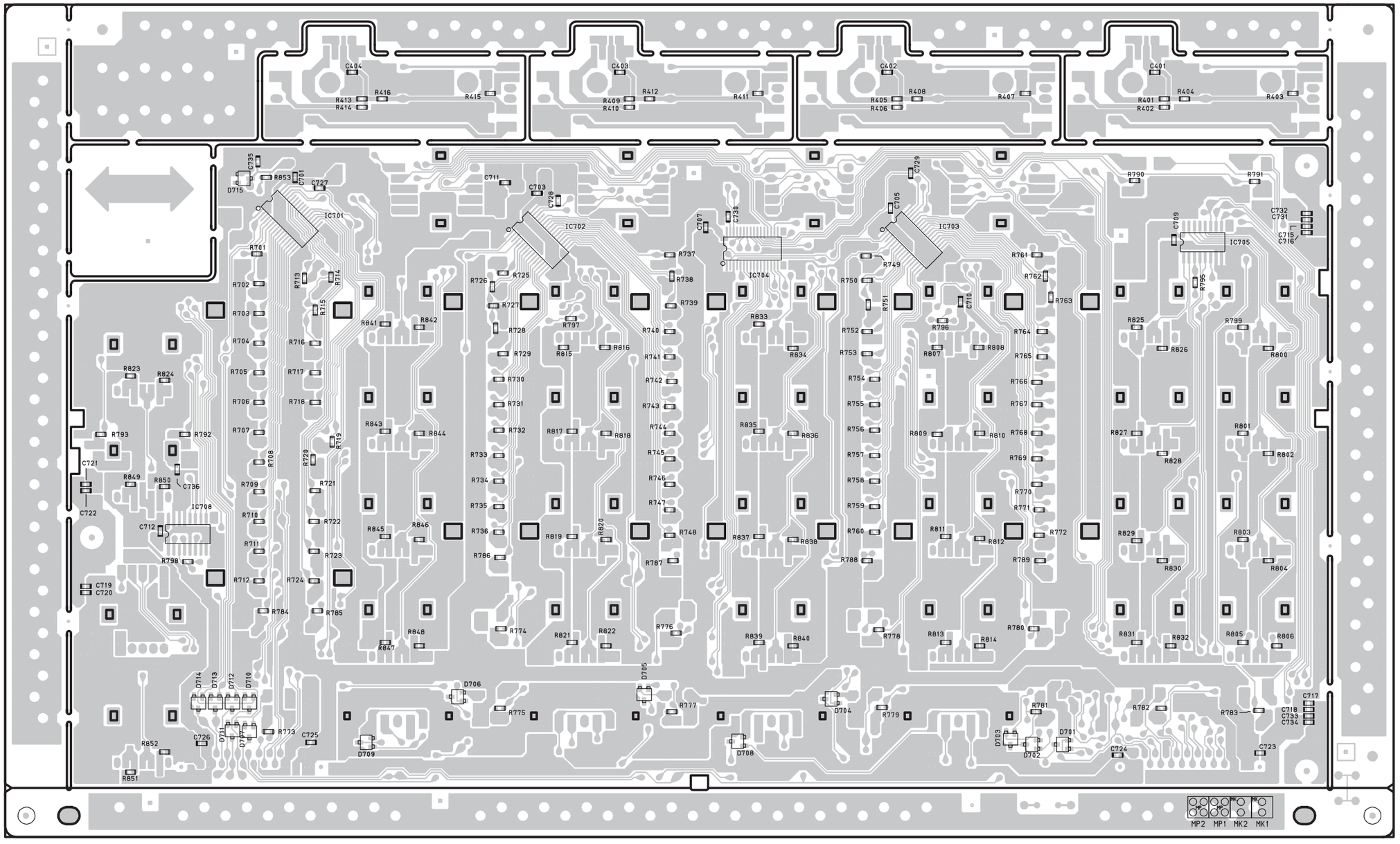
GU-3592 P.uCOM / INPUT P.W.B. UNIT ASS'Y FOIL SIDE



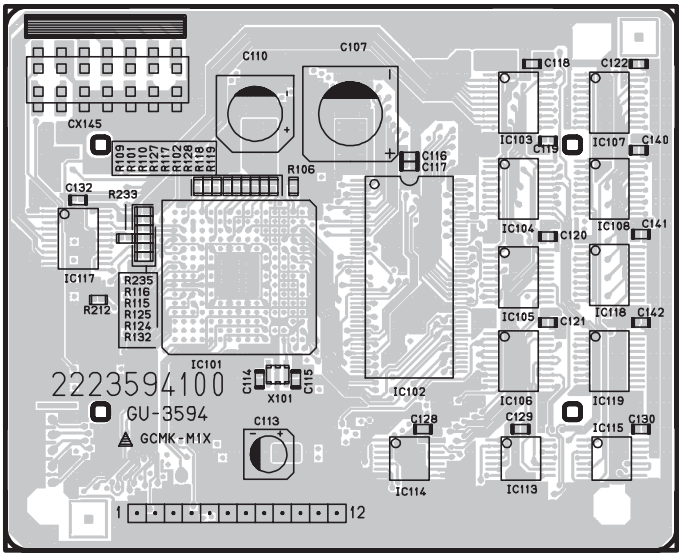
GU-3593 P.VR P.W.B. UNIT ASS'Y COMPONENT SIDE



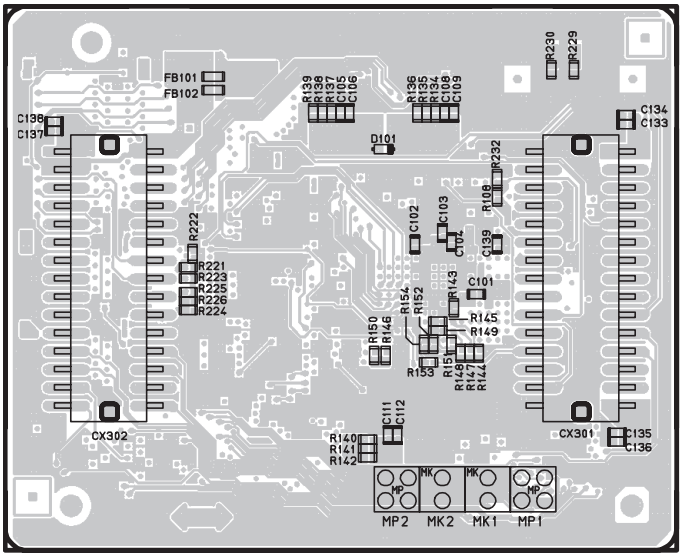
GU-3593 P.VR P.W.B. UNIT ASS'Y FOIL SIDE



GU-3594 DSP P.W.B. UNIT ASS'Y COMPONENT SIDE



GU-3594 DSP P.W.B. UNIT ASS'Y FOIL SIDE



NOTE FOR PARTS LIST

- Part indicated with the mark "nsp" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark " ★ " is not illustrated in the exploded view.
- Not including General-purpose Carbon Film Resistor in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)
- Not including General-purpose Carbon Chip Resistor in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

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

部品表について

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

● Resistors

Ex.: RN Type / 14K Shape and per-formance / 2E Power / 182 Resist-ance / G Allowable error / FR Others

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

✻ Resistance

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

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

● Capacitors

Ex.: CE Type / 04W Shape and per-formance / 1H Dielectric strength / 2R2 Capacity / M Allowable error / BP Others

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

✻ Capacity (electrolyte only)

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

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

✻ Capacity (except electrolyte)

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

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

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

●抵抗器

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

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

＊抵抗値

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

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

●コンデンサ

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

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

＊容量値

● 電解コンデンサの場合

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

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

● 電解コンデンサ以外の場合

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

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

● 耐圧を交流で表示する場合は、耐圧表示の次に「AC」を表示します。

PARTS LIST OF P.W.B. UNIT ASS'Y

GU-3591 MAIN / POWER P.W.B. UNIT ASS'Y

Note: The symbols in the column "Remarks" indicate the following destinations.
E3 : U.S.A., & Canada model
E2 : Europe model
JP : Japan model ⚠2

	Ref. No.	Part No.	Part Name	Remarks	New
SEMICONDUCTORS GROUP					
	IC101	00D 262 3350 009	MN102H74DDA		*
	IC102	00D GEN 6591	8M FLASH MEMORY(70N)	(00D 262 3226 007)	
	IC103	00D 263 0913 905	PST600C TP		
	IC105	00D 262 2801 902	SN74AHCT273PW-EL2		
	IC106	00D 263 1164 009	PQ018EF01SZ		
	IC107	00D 262 2813 903	SN74AHCT08PW-EL2		
	IC301	00D 262 3069 905	PCM1804		
	IC302-304	00D 263 0934 900	BA4510F-E2		
	IC305	00D 262 3069 905	PCM1804		
	IC306-308	00D 263 0934 900	BA4510F-E2		
	IC309	00D 262 3069 905	PCM1804		
	IC310-312	00D 263 0934 900	BA4510F-E2		
	IC313	00D 262 3069 905	PCM1804		
	IC314-316	00D 263 0934 900	BA4510F-E2		
	IC317,318	00D 263 0896 909	NJM2068MD-TE1		
	IC319-321	00D 263 0934 900	BA4510F-E2		
	IC322,323	00D 263 0896 909	NJM2068MD-TE1		
	IC401	00D 262 3333 000	AD1838AAS		*
	IC402	00D 262 3332 904	PCM1791ADBR		*
	IC403	00D 262 1953 903	TC7WU04F		
	IC501	00D 262 3333 000	AD1838AAS		*
	IC502	00D 262 3334 902	AK4103AVF		*
	IC503	00D 262 1953 903	TC7WU04F		
	IC504-506	00D 263 0934 900	BA4510F-E2		
	IC507	00D 263 0896 909	NJM2068MD-TE1		
	IC701-705	00D 263 0898 907	NJM5532MD-TE1		
	IC706,707	00D 263 0896 909	NJM2068MD-TE1		
	IC708	00D 263 0995 004	NJM4556AD		
	IC709	00D 262 2959 906	SN74LV244APW		
	IC901,902	00D 263 1092 003	BA05T		
	IC903,904	00D 263 1048 002	BA033T		
	IC905	00D 263 1092 003	BA05T		
	IC906	00D 263 0812 006	NJM7815FA(S)		
	IC907	00D 263 0561 001	NJM7915FA		
	TR101	00D 269 0083 901	DTA114EKT96		
	TR102	00D 269 0082 902	DTC114EKT96		
	TR501	00D 273 0460 905	KTC2875B-RTK		
	TR701-716	00D 273 0253 918	2SC2878(A/B)TPE2		
	TR717	00D 269 0083 901	DTA114EKT96		
	TR718	00D 269 0082 902	DTC114EKT96		
	TR901	00D 272 0025 907	2SB562(C)TF		
	D101	00D 276 0559 909	DAP202KT146		
	D102	00D 276 0560 901	DAN202KT146		
	D703,704	00D 276 0559 909	DAP202KT146		
	D705,706	00D 276 0560 901	DAN202KT146		
	D707,708	00D 276 0559 909	DAP202KT146		
	D709,710	00D 276 0560 901	DAN202KT146		
	D711	00D 276 0432 903	1SS270A TE (TAPE)		
	D901	00D 276 0742 004	D5SBA20		
	D902-907	00D 276 0704 903	1SR35-400A(T93X)		
	ZD901	00D 276 0643 983	MTZJ5.1A T77		
	ZD902	00D 276 0762 932	MTZJ33B T77		

	Ref. No.	Part No.	Part Name	Remarks	New
RESISTORS GROUP					
	R713,714	00D 241 2377 918	RD14B2E750JNBST		
	R731,732	00D 241 2377 918	RD14B2E750JNBST		
	R805,806	00D 244 2052 973	RS14B3A561JNBST(S)		
	R813,814	00D 244 2051 961	RS14B3A101JNBST(S)		
	R835	00D 244 2052 973	RS14B3A561JNBST(S)		
	R838	00D 244 2055 909	RS14B3A910JNBST(S)		
	VR701	00D 211 0552 019	V09QB103		
CAPACITORS GROUP					
	C101	00D 257 0512 903	CK73F1E104ZT		
	C102	00D 254 4533 918	CE04W0J470MT SMG/RE3		
	C103-106	00D 257 0512 903	CK73F1E104ZT		
	C107	00D 257 0509 929	CK73B1H102KT		
	C108	00D 257 0512 903	CK73F1E104ZT		
	C109	00D 254 4213 924	CE04W0J470MT (SRA)		
	C110	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C111	00D 257 0512 903	CK73F1E104ZT		
	C112	00D 257 0506 951	CC73CH1H101JT		
	C113-115	00D 257 0512 903	CK73F1E104ZT		
	C116,117	00D 257 0511 904	CK73F1H103ZT		
	C118	00D 257 0512 903	CK73F1E104ZT		
	C119	00D 257 0501 901	CK73B1H103KT (1608)		
	C120	00D 254 4533 950	CE04W0J471MT SMG/RE3		
	C121	00D 257 0511 904	CK73F1H103ZT		
	C122	00D 257 0512 903	CK73F1E104ZT		
	C123	00D 254 4533 950	CE04W0J471MT SMG/RE3		
	C124	00D 257 0512 903	CK73F1E104ZT		
	C125	00D 257 0509 929	CK73B1H102KT		
	C128	00D 257 0512 903	CK73F1E104ZT		
	C129	00D 254 4213 924	CE04W0J470MT (SRA)		
	C130	00D 254 6190 906	CE04W0J331MT (SRA)		
	C131	00D 257 0512 903	CK73F1E104ZT		
	C132-136	00D 254 6190 906	CE04W0J331MT (SRA)		
	C137-139	00D 257 0512 903	CK73F1E104ZT		
	C301,302	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C303-306	00D 257 0506 951	CC73CH1H101JT		
	C307,308	00D 257 0509 929	CK73B1H102KT		
	C313,314	00D 257 0511 904	CK73F1H103ZT		
	C315,316	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C317,318	00D 257 0512 903	CK73F1E104ZT		
	C319,320	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C321-323	00D 257 0509 929	CK73B1H102KT		
	C324	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C325	00D 257 0509 929	CK73B1H102KT		
	C326	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C327,328	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C329-332	00D 257 0506 951	CC73CH1H101JT		
	C333,334	00D 257 0509 929	CK73B1H102KT		
	C339,340	00D 257 0511 904	CK73F1H103ZT		
	C341,342	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C343,344	00D 257 0512 903	CK73F1E104ZT		
	C345,346	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C347-349	00D 257 0509 929	CK73B1H102KT		
	C350	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C351	00D 257 0509 929	CK73B1H102KT		
	C352	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C353,354	00D 254 4524 985	CE04W1H100MT SMG/RE3		

	Ref. No.	Part No.	Part Name	Remarks	New
	C355-358	00D 257 0506 951	CC73CH1H101JT		
	C359,360	00D 257 0509 929	CK73B1H102KT		
	C365,366	00D 257 0511 904	CK73F1H103ZT		
	C367,368	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C369,370	00D 257 0512 903	CK73F1E104ZT		
	C371,372	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C373-375	00D 257 0509 929	CK73B1H102KT		
	C376	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C377	00D 257 0509 929	CK73B1H102KT		
	C378	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C379,380	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C381-384	00D 257 0506 951	CC73CH1H101JT		
	C385,386	00D 257 0509 929	CK73B1H102KT		
	C391,392	00D 257 0511 904	CK73F1H103ZT		
	C393,394	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C395,396	00D 257 0512 903	CK73F1E104ZT		
	C397,398	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C399-401	00D 257 0509 929	CK73B1H102KT		
	C402	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C403	00D 257 0509 929	CK73B1H102KT		
	C404	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C405,406	00D 257 0509 961	CK73B1H152KT		
	C407-410	00D 257 0507 992	CC73CH1H391JT		
	C411,412	00D 257 0512 903	CK73F1E104ZT		
	C413,414	00D 257 0511 904	CK73F1H103ZT		
	C415,416	00D 257 0507 950	CC73CH1H271JT		
	C417,418	00D 257 0508 933	CC73CH1H561JT		
	C419,420	00D 257 0506 919	CC73CH1H680JT		
	C421,422	00D 257 0506 993	CC73CH1H151JT		
	C423,424	00D 257 0509 990	CK73B1H222KT		
	C425,426	00D 257 0512 903	CK73F1E104ZT		
	C427,428	00D 257 0511 904	CK73F1H103ZT		
	C429,430	00D 257 0506 951	CC73CH1H101JT		
	C431-434	00D 257 0509 929	CK73B1H102KT		
	C435,436	00D 257 0511 904	CK73F1H103ZT		
	C437,438	00D 257 0506 977	CC73CH1H121JT		
	C439,440	00D 254 4538 939	CE04W1C470MT SMG/RE3		
	C441,442	00D 257 0506 951	CC73CH1H101JT		
	C443	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C444	00D 257 0512 903	CK73F1E104ZT		
	C445	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C446	00D 257 0512 903	CK73F1E104ZT		
	C447	00D 257 0511 904	CK73F1H103ZT		
	C448	00D 254 4524 943	CE04W1H010MT SMG/RE3		
	C449,450	00D 257 0507 950	CC73CH1H271JT		
	C451,452	00D 257 0508 933	CC73CH1H561JT		
	C453,454	00D 257 0506 993	CC73CH1H151JT		
	C455,456	00D 257 0506 919	CC73CH1H680JT		
	C457,458	00D 257 0509 990	CK73B1H222KT		
	C459,460	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C461,462	00D 257 0511 904	CK73F1H103ZT		
	C463,464	00D 257 0507 950	CC73CH1H271JT		
	C465,466	00D 257 0508 933	CC73CH1H561JT		
	C467,468	00D 257 0506 993	CC73CH1H151JT		
	C469,470	00D 257 0506 919	CC73CH1H680JT		
	C471,472	00D 257 0509 990	CK73B1H222KT		
	C473,474	00D 257 0512 903	CK73F1E104ZT		
	C475,476	00D 257 0511 904	CK73F1H103ZT		
	C477	00D 257 0509 929	CK73B1H102KT		
	C479	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C480	00D 257 0509 929	CK73B1H102KT		

	Ref. No.	Part No.	Part Name	Remarks	New
	C481	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C482	00D 257 0509 929	CK73B1H102KT		
	C483	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C484	00D 254 4538 913	CE04W1C220MT SMG/RE3		
	C485,486	00D 257 0512 903	CK73F1E104ZT		
	C487	00D 254 4538 913	CE04W1C220MT SMG/RE3		
	C488	00D 257 0512 903	CK73F1E104ZT		
	C489	00D 254 4538 913	CE04W1C220MT SMG/RE3		
	C490	00D 257 0509 929	CK73B1H102KT		
	C491	00D 257 0511 904	CK73F1H103ZT		
	C492	00D 257 0512 903	CK73F1E104ZT		
	C493	00D 254 4536 915	CE04W1A470MT SMG/RE3		
	C494	00D 257 0503 967	CC73CH1H150JT		
	C495	00D 257 0503 941	CC73CH1H120JT		
	C497	00D 257 0512 903	CK73F1E104ZT		
	C498	00D 254 4538 939	CE04W1C470MT SMG/RE3		
	C499	00D 257 0509 929	CK73B1H102KT		
	C500	00D 254 4192 935	CE04W1A101MT (SRA)		
	C501	00D 257 0501 901	CK73B1H103KT (1608)		
	C502	00D 257 0512 903	CK73F1E104ZT		
	C503	00D 254 4538 926	CE04W1C330MT SMG/RE3		
	C504	00D 257 0501 901	CK73B1H103KT (1608)		
	C508	00D 257 0512 903	CK73F1E104ZT		
	C509	00D 254 4538 913	CE04W1C220MT SMG/RE3		
	C510	00D 257 0512 903	CK73F1E104ZT		
	C511	00D 254 4538 913	CE04W1C220MT SMG/RE3		
	C512	00D 257 0509 929	CK73B1H102KT		
	C513	00D 254 4538 913	CE04W1C220MT SMG/RE3		
	C514	00D 257 0512 903	CK73F1E104ZT		
	C515,516	00D 257 0506 951	CC73CH1H101JT		
	C517-520	00D 257 0509 929	CK73B1H102KT		
	C521,522	00D 257 0511 904	CK73F1H103ZT		
	C523,524	00D 257 0506 977	CC73CH1H121JT		
	C525,526	00D 254 4538 939	CE04W1C470MT SMG/RE3		
	C527,528	00D 257 0506 951	CC73CH1H101JT		
	C529	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C530	00D 257 0512 903	CK73F1E104ZT		
	C531	00D 254 4538 900	CE04W1C100MT SMG/RE3		
	C532	00D 257 0512 903	CK73F1E104ZT		
	C533	00D 257 0511 904	CK73F1H103ZT		
	C534	00D 254 4524 943	CE04W1H010MT SMG/RE3		
	C535,536	00D 257 0507 950	CC73CH1H271JT		
	C537,538	00D 257 0508 933	CC73CH1H561JT		
	C539,540	00D 257 0506 993	CC73CH1H151JT		
	C541,542	00D 257 0506 919	CC73CH1H680JT		
	C543,544	00D 257 0509 990	CK73B1H222KT		
	C545,546	00D 257 0512 903	CK73F1E104ZT		
	C547,548	00D 257 0511 904	CK73F1H103ZT		
	C553,554	00D 257 0512 903	CK73F1E104ZT		
	C555,556	00D 254 4541 939	CE04W1E470MT SMG/RE3		
	C557	00D 254 4538 939	CE04W1C470MT SMG/RE3		
	C558	00D 254 4533 918	CE04W0J470MT SMG/RE3		
	C559,560	00D 257 0512 903	CK73F1E104ZT		
	C561	00D 254 4541 939	CE04W1E470MT SMG/RE3		
	C562	00D 254 4194 946	CE04W1E470MT (SRA)		
	C563-565	00D 257 0512 903	CK73F1E104ZT		
	C566-569	00D 257 0511 904	CK73F1H103ZT		
	C570,571	00D 257 0509 990	CK73B1H222KT		
	C574,575	00D 257 0506 951	CC73CH1H101JT		
	C577,578	00D 257 0506 951	CC73CH1H101JT		
	C701,702	00D 254 4541 939	CE04W1E470MT SMG/RE3		

	Ref. No.	Part No.	Part Name	Remarks	New
	C703,704	00D 257 0511 904	CK73F1H103ZT		
	C705,706	00D 257 0504 982	CC73CH1H470JT		
	C707,708	00D 254 4522 958	CE04W1V101MT SMG/RE3		
	C709,710	00D 257 0509 929	CK73B1H102KT		
	C711,712	00D 254 4541 939	CE04W1E470MT SMG/RE3		
	C713,714	00D 257 0511 904	CK73F1H103ZT		
	C715,716	00D 257 0504 982	CC73CH1H470JT		
	C717,718	00D 254 4522 958	CE04W1V101MT SMG/RE3		
	C719,720	00D 257 0509 929	CK73B1H102KT		
	C721,722	00D 257 0511 904	CK73F1H103ZT		
	C723,724	00D 257 0503 996	CC73CH1H200JT		
	C725,726	00D 254 4522 958	CE04W1V101MT SMG/RE3		
	C727,728	00D 257 0509 929	CK73B1H102KT		
	C729,730	00D 257 0511 904	CK73F1H103ZT		
	C731,732	00D 257 0503 996	CC73CH1H200JT		
	C733,734	00D 254 4522 958	CE04W1V101MT SMG/RE3		
	C735,736	00D 257 0509 929	CK73B1H102KT		
	C737,738	00D 257 0511 904	CK73F1H103ZT		
	C739,740	00D 257 0503 996	CC73CH1H200JT		
	C741,742	00D 254 4522 958	CE04W1V101MT SMG/RE3		
	C743,744	00D 257 0509 929	CK73B1H102KT		
	C745,746	00D 257 0504 908	CC73CH1H220JT		
	C747,748	00D 257 0511 904	CK73F1H103ZT		
	C749,750	00D 254 4522 958	CE04W1V101MT SMG/RE3		
	C751,752	00D 257 0509 929	CK73B1H102KT		
	C753,754	00D 257 0506 951	CC73CH1H101JT		
	C757,758	00D 257 0511 904	CK73F1H103ZT		
	C759,760	00D 254 4522 916	CE04W1V100MT SMG/RE3		
	C763,764	00D 257 0506 951	CC73CH1H101JT		
	C765	00D 254 4524 943	CE04W1H010MT SMG/RE3		
	C766	00D 257 0512 903	CK73F1E104ZT		
	C767	00D 254 4524 943	CE04W1H010MT SMG/RE3		
	C768	00D 257 0512 903	CK73F1E104ZT		
	C770	00D 257 0512 903	CK73F1E104ZT		
	C773	00D 257 0512 903	CK73F1E104ZT		
	C774-781	00D 257 0511 904	CK73F1H103ZT		
	C782-793	00D 257 0509 929	CK73B1H102KT		
	C798,799	00D 247 2018 903	RM73B--0R0KT		
	C800	00D 254 4541 955	CE04W1E221MT SMG/RE3		
	C901,902	00D 254 4536 957	CE04W1A471MT SMG/RE3		
	C903-907	00D 257 0512 903	CK73F1E104ZT		
	C908,909	00D 254 4565 708	CE04W1C123MC(SMG)		
	C910,911	00D 254 4536 957	CE04W1A471MT SMG/RE3		
	C912-915	00D 257 0512 903	CK73F1E104ZT		
	C916	00D 254 4536 931	CE04W1A221MT SMG/RE3		
	C917,918	00D 257 0512 903	CK73F1E104ZT		
	C919	00D 254 4538 955	CE04W1C221MT SMG/RE3		
	C920,921	00D 254 4541 955	CE04W1E221MT SMG/RE3		
	C922-927	00D 257 0512 903	CK73F1E104ZT		
	C928,929	00D 254 4650 008	CE04W1E222MC(KMG)		*
	C930	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C931	00D 254 4525 913	CE04W1H470MT SMG/RE3		
	C933	00D 254 4540 710	CE04W1J471MC SMG/RE3		
	C935-939	00D 257 0512 903	CK73F1E104ZT		
	C940	00D 257 0511 904	CK73F1H103ZT		
	C941	00D 257 0512 903	CK73F1E104ZT		
	C942	00D 257 0511 904	CK73F1H103ZT		
	C943-945	00D 257 0512 903	CK73F1E104ZT		
	C946	00D 254 4536 928	CE04W1A101MT SMG/RE3		
	C947,948	00D 257 0512 903	CK73F1E104ZT		
	C949,950	00D 257 0511 920	CK73F1H473ZT		

	Ref. No.	Part No.	Part Name	Remarks	New
	C951-958	00D 257 0509 929	CK73B1H102KT		
OTHER PARTS GROUP					
	AS106	00D 417 0532 006	RADIATOR		
	AS901,902	00D 417 0476 036	RADIATOR		
	CX041	00D 205 0343 045	4P CONN.BASE(KR-PH)		
	CX081	00D 205 1296 007	8P FFC CON.BASE		*
	CX101	00D 205 0275 003	10P EH CON. BASE		
	CX121	00D 205 0375 026	12P CONN.BASE(KR-PH)		
	CY021	00D 205 0581 056	2P VH CONNECTOR BASE		
	CY111	00D 205 0375 013	11P CON.BASE(KR-PH)		
	CY301,302	00D 205 1291 002	30P PIN HEADER(9180B		*
	CY351	00D 205 0736 063	35P FFC CON.BASE		
⚠	F901	00D 206 1089 000	FUSE (ET0.8A)	for E3, JP	⚠2
⚠	F901	00D 206 1087 057	FUSE (ET0.4A)	for E2	
	F902	00D 209 0008 120	JUMPER (L=10)		
	FB101,102	00D 235 0130 903	CHIP EMIFIL(11A121)		
	FB301-316	00D 235 0130 903	CHIP EMIFIL(11A121)		
	FB321,322	00D 235 0130 903	CHIP EMIFIL(11A121)		
	FB401-410	00D 235 0130 903	CHIP EMIFIL(11A121)		
	FB501-504	00D 235 0130 903	CHIP EMIFIL(11A121)		
	FB701,702	00D 247 2018 903	RM73B--0R0KT		
	FF901	00D 204 0040 909	FUSE CLIP (TAPE)		
	FH901	00D 202 0040 909	FUSE CLIP (TAPE)		
	JK501	00D 204 8551 014	1P PIN JACK (OR)		
	JK701	00D 205 1255 006	XLR OUT (JY-5032A)		
	JK702	00D 204 8564 001	6P PIN JACK(FG)		
	JK703	00D 205 1255 006	XLR OUT (JY-5032A)		
	JK705	00D 205 1295 008	USB(B) CONNECTOR		*
	JK706-709	00D 204 8421 005	MINI JACK		
	JK710-713	00D 204 8640 006	PHONE JACK(HTJ06404A		
	S701	00D 212 0443 008	SLIDE SW(SSAA120400)		
	ST101	00D 205 0452 017	STYLE PIN		
	ST901,902	00D 205 0452 017	STYLE PIN		
	T501	00D 231 8063 009	PULSE TRANS		
	X101	00D 399 0038 901	CST12.0MTW-TF1		
	X401	00D 399 0935 004	X'TAL(22.5792MHZ)		*
		00D GEN 6256-5	FUSE LABEL	for E2	
		00D 209 0008 133	JUMPER (L=7.5)		
		00D 471 3304 015	3X8 CBS-Z		
		00D 473 7002 018	3X8 CBTS (S)-Z		

GU-3592 P.uCOM / INPUT P.W.B. UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks	New
SEMICONDUCTORS GROUP					
	IC201	00D 262 3228 908	M66005AFP		
	IC301	00D 262 3359 000	TMP86CM47U-5FH5		*
	IC302,303	00D 262 1708 909	TC74HC138AF(TP1)		
	IC305	00D 262 3335 901	BU2152FS		*
	IC306,307	00D 262 3336 900	TC4051BF		*
	IC401-408	00D 263 0896 909	NJM2068MD-TE1		
	IC501	00D 262 2033 000	AD1838AAS		
	IC502	00D 262 3168 903	TC94A32F		
	IC503	00D 263 0898 907	NJM5532MD-TE1		
	IC504	00D 262 2033 000	AD1838AAS		
	IC505	00D 262 3168 903	TC94A32F		
	IC506	00D 263 0898 907	NJM5532MD-TE1		
	IC507	00D 262 2033 000	AD1838AAS		
	IC508	00D 262 3168 903	TC94A32F		
	IC509	00D 263 0898 907	NJM5532MD-TE1		
	IC510	00D 262 2033 000	AD1838AAS		
	IC511	00D 262 3168 903	TC94A32F		
	IC512	00D 263 0898 907	NJM5532MD-TE1		
	IC513	00D 262 3168 903	TC94A32F		
	IC514	00D 263 0898 907	NJM5532MD-TE1		
	IC601,602	00D 262 0864 006	UPC4570C		
	D301-316	00D 276 0560 901	DAN202KT146		
	LD301,302	00D 393 9641 906	SLR-332MC(GRN) TE7		*
	LD303	00D 393 9640 907	SLR-332YC(YEL) TE7		*
	LD304	00D 393 9639 905	SLR-332VC(RED) TE7		*
	LD305,306	00D 393 9605 900	SEL6427EP(TP5)		
	LD307	00D 393 9640 907	SLR-332YC(YEL) TE7		*
	LD308	00D 393 9639 905	SLR-332VC(RED) TE7		*
	LD309	00D 393 9640 907	SLR-332YC(YEL) TE7		*
RESISTORS GROUP					
	VR301	00D 211 5630 004	V1420P12FB103		
	VR302	00D 211 5629 002	V1420P12FB103K		
	VR303-305	00D 211 5630 004	V1420P12FB103		
CAPACITORS GROUP					
	C203	00D 254 4302 958	CE04W1A470MT(SRE)		
	C204	00D 257 0512 903	CK73F1E104ZT		
	C205	00D 257 0511 920	CK73F1H473ZT		
	C206	00D 254 4302 958	CE04W1A470MT(SRE)		
	C207	00D 257 0512 903	CK73F1E104ZT		
	C208	00D 257 0509 929	CK73B1H102KT		
	C210	00D 257 0512 903	CK73F1E104ZT		
	C211	00D 254 4302 958	CE04W1A470MT(SRE)		
	C212	00D 257 0506 951	CC73CH1H101JT		
	C213,214	00D 257 0511 920	CK73F1H473ZT		
	C301	00D 254 4302 958	CE04W1A470MT(SRE)		
	C302	00D 257 0512 903	CK73F1E104ZT		
	C303	00D 257 0509 929	CK73B1H102KT		
	C312	00D 257 0512 903	CK73F1E104ZT		
	C313	00D 254 4302 958	CE04W1A470MT(SRE)		
	C314,315	00D 257 0512 903	CK73F1E104ZT		

	Ref. No.	Part No.	Part Name	Remarks	New
	C330	00D 257 0512 903	CK73F1E104ZT		
	C331	00D 254 4302 958	CE04W1A470MT(SRE)		
	C332	00D 257 0512 903	CK73F1E104ZT		
	C333	00D 254 4302 958	CE04W1A470MT(SRE)		
	C334	00D 257 0511 904	CK73F1H103ZT		
	C335,336	00D 257 0512 903	CK73F1E104ZT		
	C337	00D 257 0511 904	CK73F1H103ZT		
	C338-343	00D 257 0512 903	CK73F1E104ZT		
	C345,346	00D 254 4302 958	CE04W1A470MT(SRE)		
	C347,348	00D 257 0512 903	CK73F1E104ZT		
	C351	00D 257 0511 904	CK73F1H103ZT		
	C352	00D 257 0512 903	CK73F1E104ZT		
	C401-404	00D 257 0506 951	CC73CH1H101JT		
	C405,406	00D 257 0509 929	CK73B1H102KT		
	C407,408	00D 257 0510 921	CK73B1H392KT		
	C409,410	00D 257 0512 903	CK73F1E104ZT		
	C411,412	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C413,414	00D 257 0512 903	CK73F1E104ZT		
	C415-420	00D 257 0506 951	CC73CH1H101JT		
	C421,422	00D 257 0509 929	CK73B1H102KT		
	C423,424	00D 257 0510 921	CK73B1H392KT		
	C425,426	00D 257 0512 903	CK73F1E104ZT		
	C427-430	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C431-436	00D 257 0506 951	CC73CH1H101JT		
	C437,438	00D 257 0509 929	CK73B1H102KT		
	C439,440	00D 257 0510 921	CK73B1H392KT		
	C441,442	00D 257 0512 903	CK73F1E104ZT		
	C443,444	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C445,446	00D 257 0512 903	CK73F1E104ZT		
	C447-452	00D 257 0506 951	CC73CH1H101JT		
	C453,454	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C455,456	00D 257 0512 903	CK73F1E104ZT		
	C457,458	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C459,460	00D 257 0512 903	CK73F1E104ZT		
	C461,462	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C463,464	00D 257 0512 903	CK73F1E104ZT		
	C465,466	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C471	00D 257 0511 904	CK73F1H103ZT		
	C474	00D 257 0512 903	CK73F1E104ZT		
	C475	00D 257 0511 904	CK73F1H103ZT		
	C476	00D 257 0512 903	CK73F1E104ZT		
	C477	00D 257 0511 904	CK73F1H103ZT		
	C478	00D 257 0512 903	CK73F1E104ZT		
	C479	00D 257 0511 904	CK73F1H103ZT		
	C480	00D 257 0512 903	CK73F1E104ZT		
	C501,502	00D 257 0512 903	CK73F1E104ZT		
	C503,504	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C505,506	00D 254 4524 998	CE04W1H220MT SMG/RE3		
	C507,508	00D 254 4541 939	CE04W1E470MT SMG/RE3		
	C509,510	00D 257 0512 903	CK73F1E104ZT		
	C511,512	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C513-516	00D 254 4524 969	CE04W1H3R3MT SMG/RE3		
	C517,518	00D 257 0502 971	CC73CH1H5R0CT		
	C519,520	00D 257 0512 903	CK73F1E104ZT		
	C523,524	00D 257 0512 903	CK73F1E104ZT		
	C525,526	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C527,528	00D 254 4524 998	CE04W1H220MT SMG/RE3		
	C529,530	00D 254 4541 939	CE04W1E470MT SMG/RE3		
	C531,532	00D 257 0512 903	CK73F1E104ZT		
	C533,534	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C535-538	00D 254 4524 969	CE04W1H3R3MT SMG/RE3		

	Ref. No.	Part No.	Part Name	Remarks	New
	C539,540	00D 257 0502 971	CC73CH1H5R0CT		
	C541,542	00D 257 0512 903	CK73F1E104ZT		
	C545,546	00D 257 0512 903	CK73F1E104ZT		
	C547,548	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C549,550	00D 254 4524 998	CE04W1H220MT SMG/RE3		
	C551,552	00D 254 4541 939	CE04W1E470MT SMG/RE3		
	C553,554	00D 257 0512 903	CK73F1E104ZT		
	C555,556	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C557-560	00D 254 4524 969	CE04W1H3R3MT SMG/RE3		
	C561,562	00D 257 0502 971	CC73CH1H5R0CT		
	C563,564	00D 257 0512 903	CK73F1E104ZT		
	C567,568	00D 257 0512 903	CK73F1E104ZT		
	C569,570	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C571,572	00D 254 4524 998	CE04W1H220MT SMG/RE3		
	C573,574	00D 254 4541 939	CE04W1E470MT SMG/RE3		
	C575,576	00D 257 0512 903	CK73F1E104ZT		
	C577,578	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C579-582	00D 254 4524 969	CE04W1H3R3MT SMG/RE3		
	C583,584	00D 257 0502 971	CC73CH1H5R0CT		
	C585,586	00D 257 0512 903	CK73F1E104ZT		
	C589,590	00D 254 4541 939	CE04W1E470MT SMG/RE3		
	C591,592	00D 257 0512 903	CK73F1E104ZT		
	C593,594	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C595-598	00D 254 4524 969	CE04W1H3R3MT SMG/RE3		
	C599,600	00D 257 0502 971	CC73CH1H5R0CT		
	C601-603	00D 257 0512 903	CK73F1E104ZT		
	C604	00D 257 0511 904	CK73F1H103ZT		
	C605	00D 257 0512 903	CK73F1E104ZT		
	C606,607	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C608,609	00D 257 0503 983	CC73CH1H180JT		
	C610,611	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C612,613	00D 257 0503 983	CC73CH1H180JT		
	C614	00D 257 0512 903	CK73F1E104ZT		
	C615	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C616	00D 257 0512 903	CK73F1E104ZT		
	C617	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C618	00D 257 0512 903	CK73F1E104ZT		
	C619	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C620	00D 257 0512 903	CK73F1E104ZT		
	C621-624	00D 254 4524 985	CE04W1H100MT SMG/RE3		
	C625,626	00D 254 4541 939	CE04W1E470MT SMG/RE3		
	C627,628	00D 257 0512 903	CK73F1E104ZT		
	C629	00D 257 0511 904	CK73F1H103ZT		
	C630,631	00D 257 0512 903	CK73F1E104ZT		
	C632	00D 257 0511 904	CK73F1H103ZT		
	C801	00D 257 0511 904	CK73F1H103ZT		
	C802	00D 257 0512 903	CK73F1E104ZT		
	C803	00D 257 0511 904	CK73F1H103ZT		
	C804	00D 257 0509 929	CK73B1H102KT		
	C851	00D 253 8022 707	CK45F2EAC103MC		
OTHER PARTS GROUP					
	CX021	00D 205 0581 056	2P VH CONNECTOR BASE		
	CX022	00D 205 0581 001	2P VH CONNECTOR BASE		
	CX042	00D 205 0234 044	4P EH SIDE BASE		
	CX111	00D 205 0480 018	11P KR CON BASE(L)		
	CX221,222	00D 205 1293 000	22P SOCKET(9892S)		*
	CX351	00D 205 0736 063	35P FFC CON.BASE		
	CY081	00D 205 1297 006	8P FFC CON.BASE(S)		*

	Ref. No.	Part No.	Part Name	Remarks	New
	FB301,302	00D 235 0130 903	CHIP EMIFIL(11A121)		
	FB601,602	00D 235 0130 903	CHIP EMIFIL(11A121)		
	FL201	00D 393 8074 008	FL TUBE (16-ST-73GN)		*
	FL201	00D 393 8074 105	FL TUBE (16-ST-73GN)	for DN-X1500S E2 only	*
	JK402-405	00D 204 8540 009	4P PIN JACK		
	JK601	00D 205 1171 009	3PCANNON(NCJ6FI-H)		
	JK602	00D 204 8640 006	PHONE JACK(HTJ06404A		
	JK801	00D 204 8264 000	H/P JACK (AU)		
	L851	00D 235 0159 007	PLH10AN3711ROP2B		
	S301,302	00D 212 5604 907	TACT SWITCH-TA(ALPS)		
	S303-305	00D 212 1165 000	SLIDE SW (1-2)		
	S306-311	00D 212 5604 907	TACT SWITCH-TA(ALPS)		
	S312	00D 212 0511 008	ROTARY SW (1-8)		*
	S313	00D 212 0510 009	ROTARY SW (1-7)		*
	S314	00D 212 0512 007	ROTARY ENCODER		*
	S315	00D 212 0511 008	ROTARY SW (1-8)		*
	S316	00D 212 4786 004	SLIDE SWITCH		
	S317	00D 212 0512 007	ROTARY ENCODER		*
	S401-403	00D 212 0443 008	SLIDE SW(SSAA120400)		
	S851	00D 212 1176 015	POWER SWITCH(TV-5)		
	X301	00D 399 0805 914	CSTLS16M0X51-A0		
		00D 461 1159 016	FL SPACER		*

GU-3593 P.VR P.W.B. UNIT ASS'Y

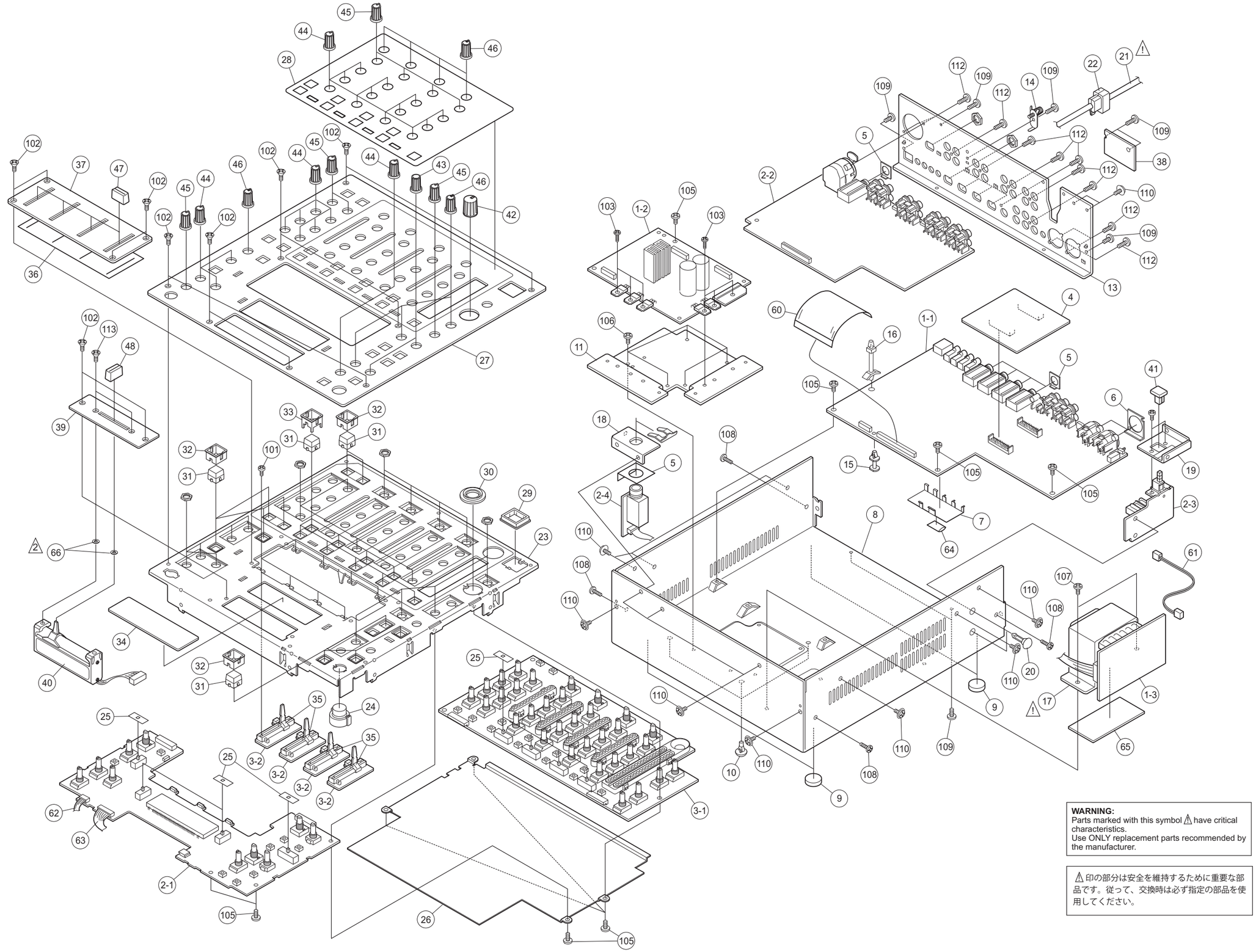
	Ref. No.	Part No.	Part Name	Remarks	New
SEMICONDUCTORS GROUP					
	IC401-404	00D 269 0220 007	GP1S094HCZ(JP)		*
	IC701-704	00D 262 3335 901	BU2152FS		*
	IC705-708	00D 262 3336 900	TC4051BF		*
	D701-715	00D 276 0560 901	DAN202KT146		
	LD701	00D 393 9642 905	SEL4214S(RED) TP1		*
	LD702-705	00D 393 9643 904	SEL4914A(ORG) TP1		*
	LD706-712	00D 393 9644 903	SEL4414E(GRN) TP1		*
	LD713	00D 393 9642 905	SEL4214S(RED) TP1		*
	LD714-717	00D 393 9643 904	SEL4914A(ORG) TP1		*
	LD718-724	00D 393 9644 903	SEL4414E(GRN) TP1		*
	LD725	00D 393 9639 905	SLR-332VC(RED) TE7		*
	LD726-729	00D 393 9640 907	SLR-332YC(YEL) TE7		*
	LD730-736	00D 393 9641 906	SLR-332MC(GRN) TE7		*
	LD737	00D 393 9639 905	SLR-332VC(RED) TE7		*
	LD738-741	00D 393 9640 907	SLR-332YC(YEL) TE7		*
	LD742-748	00D 393 9641 906	SLR-332MC(GRN) TE7		*
	LD749	00D 393 9639 905	SLR-332VC(RED) TE7		*
	LD750-753	00D 393 9640 907	SLR-332YC(YEL) TE7		*
	LD754-760	00D 393 9641 906	SLR-332MC(GRN) TE7		*
	LD761	00D 393 9639 905	SLR-332VC(RED) TE7		*
	LD762-765	00D 393 9640 907	SLR-332YC(YEL) TE7		*
	LD766-772	00D 393 9641 906	SLR-332MC(GRN) TE7		*
	LD773	00D 393 9640 907	SLR-332YC(YEL) TE7		*
	LD774	00D 393 9639 905	SLR-332VC(RED) TE7		*
	LD775	00D 393 9640 907	SLR-332YC(YEL) TE7		*
	LD776	00D 393 9639 905	SLR-332VC(RED) TE7		*
	LD777	00D 393 9640 907	SLR-332YC(YEL) TE7		*
	LD778	00D 393 9639 905	SLR-332VC(RED) TE7		*
	LD779	00D 393 9640 907	SLR-332YC(YEL) TE7		*
	LD780	00D 393 9639 905	SLR-332VC(RED) TE7		*
	LD781	00D 393 9640 907	SLR-332YC(YEL) TE7		*
	LD782,783	00D 393 9639 905	SLR-332VC(RED) TE7		*
	LD784,785	00D 393 9644 903	SEL4414E(GRN) TP1		*
	LD786-789	00D 393 9641 906	SLR-332MC(GRN) TE7		*
	LD790,791	00D 393 9639 905	SLR-332VC(RED) TE7		*
	LD792,793	00D 393 9604 901	SEL6227S(TP5)		
	LD795	00D 393 9612 906	SELU5E20C(TP15)		
RESISTORS GROUP					
	VR401-404	00D 211 5651 009	J4520P20B103		*
	VR701	00D 211 5630 004	V1420P12FB103		
	VR702-704	00D 211 5629 002	V1420P12FB103K		
	VR705	00D 211 5630 004	V1420P12FB103		
	VR706-708	00D 211 5629 002	V1420P12FB103K		
	VR709	00D 211 5630 004	V1420P12FB103		
	VR710-713	00D 211 5629 002	V1420P12FB103K		
	VR714	00D 211 5630 004	V1420P12FB103		
	VR715-717	00D 211 5629 002	V1420P12FB103K		
	VR718	00D 211 5630 004	V1420P12FB103		
	VR719-721	00D 211 5629 002	V1420P12FB103K		
	VR722	00D 211 5630 004	V1420P12FB103		
	VR723-725	00D 211 5629 002	V1420P12FB103K		
	VR726,727	00D 211 5630 004	V1420P12FB103		

	Ref. No.	Part No.	Part Name	Remarks	New
CAPACITORS GROUP					
	C401-404	00D 257 0512 903	CK73F1E104ZT		
	C701	00D 257 0512 903	CK73F1E104ZT		
	C702	00D 254 4302 958	CE04W1A470MT(SRE)		
	C703	00D 257 0512 903	CK73F1E104ZT		
	C704	00D 254 4302 958	CE04W1A470MT(SRE)		
	C705	00D 257 0512 903	CK73F1E104ZT		
	C706	00D 254 4302 958	CE04W1A470MT(SRE)		
	C707	00D 257 0512 903	CK73F1E104ZT		
	C708	00D 254 4302 958	CE04W1A470MT(SRE)		
	C709-712	00D 257 0512 903	CK73F1E104ZT		
	C713,714	00D 254 4302 958	CE04W1A470MT(SRE)		
	C715	00D 257 0511 904	CK73F1H103ZT		
	C716	00D 257 0512 903	CK73F1E104ZT		
	C717	00D 257 0511 904	CK73F1H103ZT		
	C718	00D 257 0512 903	CK73F1E104ZT		
	C719	00D 257 0511 904	CK73F1H103ZT		
	C720,721	00D 257 0512 903	CK73F1E104ZT		
	C722	00D 257 0511 904	CK73F1H103ZT		
	C723-726	00D 257 0512 903	CK73F1E104ZT		
	C731	00D 257 0512 903	CK73F1E104ZT		
	C732	00D 257 0511 904	CK73F1H103ZT		
	C733	00D 257 0512 903	CK73F1E104ZT		
	C734	00D 257 0511 904	CK73F1H103ZT		
	C735	00D 257 0512 903	CK73F1E104ZT		
	C736	00D 257 0511 904	CK73F1H103ZT		
OTHER PARTS GROUP					
	CX043-046	00D 205 0355 046	4P KR CON BASE(L)		
	CY221,222	00D 205 1294 009	22P PLUG(9892B)		*
	S701-713	00D 212 5604 907	TACT SWITCH-TA(ALPS)		
	S714-717	00D 212 4786 004	SLIDE SWITCH		
	S718	00D 212 0388 008	ROTARY SW (1-5)		
	S719-722	00D 212 0511 008	ROTARY SW (1-8)		*
		00D 146 2343 100	LED HOLDER (CH)		*
		00D 146 2344 109	LED HOLDER (MASTER)		*

GU-3594 DSP P.W.B. UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks	New
SEMICONDUCTORS GROUP					
	IC101	00D 262 3245 004	ADSST-MEL100-DVD		
	IC102	00D 262 3307 007	128M SDRAM(32B TSOP)		
	IC103-105	00D 262 2640 901	SN74LV245APW-EL2		
	IC106	00D 262 2959 906	SN74LV244APW		
	IC107,108	00D 262 2640 901	SN74LV245APW-EL2		
	IC113	00D 262 2516 909	SN74LV32APW-EL2		
	IC114	00D 262 2729 903	SN74LV02APW-EL2		
	IC115	00D 262 2517 908	SN74LV08APW-EL2		
	D101	00D 276 0750 902	RB521S-30TE61		
CAPACITORS GROUP					
	C101,102	00D 257 5009 974	CK73F1C104ZT		
	C103,104	00D 257 5006 993	CK73B1H102KT		
	C105	00D 257 5009 974	CK73F1C104ZT		
	C106	00D 257 5006 993	CK73B1H102KT		
	C107	00D 254 4614 905	CA67C0J221MT(SVP)		
	C108	00D 257 5009 974	CK73F1C104ZT		
	C109	00D 257 5006 993	CK73B1H102KT		
	C110	00D 254 4601 918	CE67W0J471MT(P.CAP)		
	C111	00D 257 5009 974	CK73F1C104ZT		
	C112	00D 257 5006 993	CK73B1H102KT		
	C113	00D 254 4603 916	CE67W1E100MT(P.CAP)		
	C116,117	00D 257 5009 932	CK73F1E223ZT		
	C118-122	00D 257 5009 974	CK73F1C104ZT		
	C128-130	00D 257 5009 974	CK73F1C104ZT		
	C133	00D 257 5009 974	CK73F1C104ZT		
	C134	00D 257 5009 929	CK73F1H103ZT		
	C135	00D 257 5009 974	CK73F1C104ZT		
	C136,137	00D 257 5009 929	CK73F1H103ZT		
	C138	00D 257 5009 974	CK73F1C104ZT		
	C139	00D 257 5006 993	CK73B1H102KT		
	C140	00D 257 5009 974	CK73F1C104ZT		
OTHER PARTS GROUP					
	CX301,302	00D 205 1292 001	30P SMT SOCKET(9180S		*
	FB101,102	00D 235 0158 901	CHIP BEADS(18PG121)		
	X101	00D 399 0946 909	CSTCW25M0X51-R0		*

EXPLODED VIEW



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

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

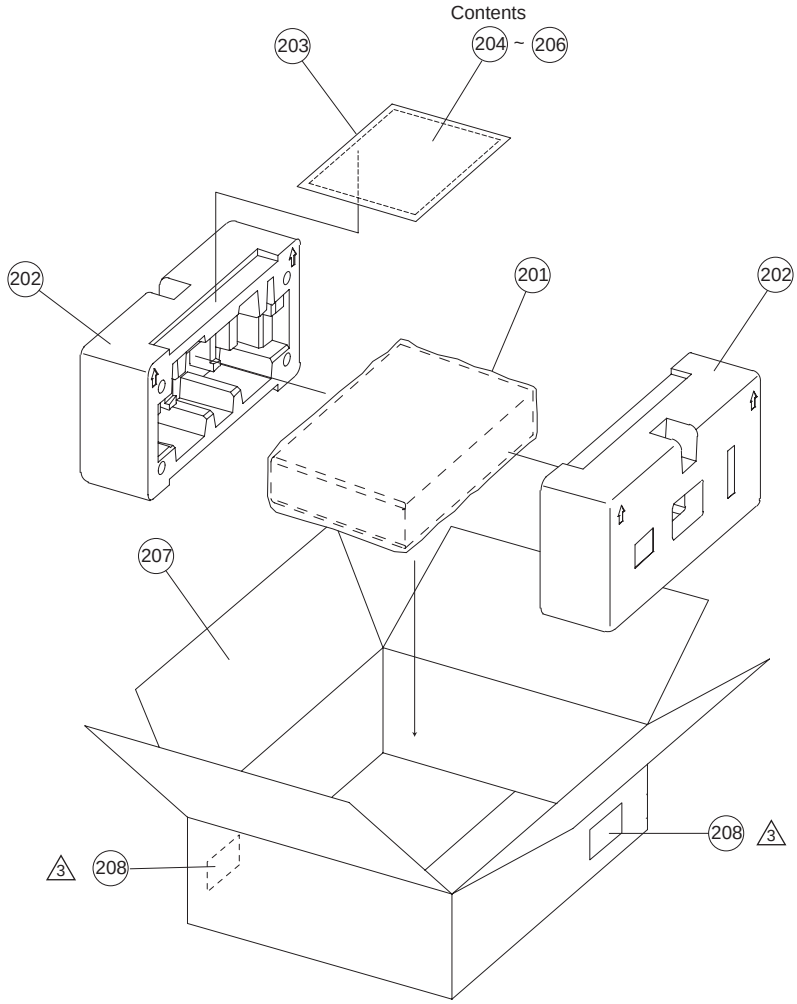
PARTS LIST OF EXPLODED VIEW

Note: The symbols in the column "Remarks" indicate the following destinations.
E3 : U.S.A., & Canada model
E2 : Europe model
JP : Japan model

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New	
	1	00DGU-3591	MAIN&POW. P.W.B. UNIT ASS'Y	for E3, JP	1		2
	1	00DGU-3591-A	MAIN&POW. P.W.B. UNIT ASS'Y	for E2	1		
	1-1	00DGU-3591-1	MAIN UNIT				
	1-2	00DGU-3591-2	POWER UNIT				
	1-3	00DGU-3591-3	TRANS UNIT	for E3, JP			2
	1-3	00DGU-3591-3A	TRANS UNIT	for E2			
	2	00DGU-3592	P.UCOM&IN P.W.B. UNIT ASS'Y		1		
	2-1	00DGU-3592-1	P.UCOM UNIT				
	2-2	00DGU-3592-2	INPUT UNIT				
	2-3	00DGU-3592-3	P.SW UNIT				
	2-4	00DGU-3592-4	H/P UNIT				
	3	00DGU-3593	P.VR P.W.B. UNIT ASS'Y		1		
	3-1	00DGU-3593-1	P.VR UNIT				
	3-2	00DGU-3593-2	CH FADER UNIT 1				
	3-2	00DGU-3593-3	CH FADER UNIT 2				
	3-2	00DGU-3593-4	CH FADER UNIT 3				
	3-2	00DGU-3593-5	CH FADER UNIT 4				
	4	00DGU-3594	DSP P.W.B. UNIT ASS'Y		1		
	5	00D 412 4859 007	EARTH PLATE		6		
	6	00D 441 1980 003	EARTH PLATE		2		
	7	00D 441 1987 006	EARTH BRACKET		1	*	
	8	00D 105 1447 006	BOTTOM COVER		1	*	
	9	00D 461 0706 127	FOOT SHEET		4		
	10	00D 449 0077 050	CARD SPACER (H=10)		3		
	11	00D 412 5075 000	RADIATOR		1	*	
	★	00D GEN 6583	F.CAUTION LABEL	DN-X1500 for E3	1		
	13	00D 105 1448 005	BACK PANEL	DN-X1500 for E3	1	*	
	13	00D 105 1448 018	BACK PANEL	DN-X1500 for E2	1	*	
	13	00D 105 1448 021	BACK PANEL	DN-X1500S for E3	1	*	2
	13	00D 105 1448 047	BACK PANEL	DN-X1500S for E2	1	*	2
	13	00D 105 1448 034	BACK PANEL	DN-X1500S for JP	1	*	2
	14	00D 205 1116 006	TERMINAL ASS		1		
	15	00D 412 2814 002	CARD SPACER (L=8)		1		
	16	00D 449 0033 023	LOCKING CARD SPACER		1		
⚠	17	00D 233 6465 100	POWER TRANS		1	*	2
	18	00D 412 5071 101	H/P BRACKET		1	*	
	19	00D 412 5070 005	P.SW.BRACKET		1	*	
	20	00D 449 0202 032	LOCKING CARD SPACER		2		
⚠	21	00D 206 2155 001	AC CORD W/CON.E3	for E3	1		
⚠	21	00D 206 2089 106	AC CORD W/CON.E2	for E2	1		
⚠	21	00D 206 2085 003	AC CORD WIH CON. DOM	DN-X1500S for JP	1		2
	22	00D 445 0084 009	CORD BUSH	for E3	1		
	22	00D 445 0056 008	CORD BUSH	for E2, JP	1		2
	23	00D 441 1986 007	SUB PANEL		1	*	
	24	00D 119 0125 001	TAP BUTTON		1	*	
	25	00D 122 0244 001	BLIND SHEET (SW)		8	*	
	26	00D 412 5095 006	SHIELD PLATE		1	*	
	27	00D 144 2868 003	TOP PANEL	for DN-X1500	1	*	
	27	00D 144 2987 201	TOP PANEL	DN-X1500S for Silver color model	1	*	2 3
	27	00D 144 2987 214	TOP PANEL	DN-X1500S for E2 Black color model	1	*	3
	28	00D 146 2341 005	SHEET	for DN-X1500	1	*	
	28	00D 146 2467 002	SHEET	for DN-X1500S	1	*	2
	29	00D 146 2340 006	POWER KNOB GUIDE		1	*	
	30	00D 146 2342 004	KNOB RING		1	*	
	31	00D 113 1988 100	BUTTON		20	*	
	32	00D 113 1989 002	BUTTON BASE		11	*	
	33	00D 113 1990 004	BUTTON BASE (2)		9	*	
	34	00D 146 2339 004	WINDOW	for DN-X1500	1	*	

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New	
	34	00D 146 2468 001	WINDOW	for DN-X1500S	1	*	△2
	35	00D 112 0925 006	SENSOR LEVER		4	*	
	36	00D 112 0928 100	BLIND SHEET		1	*	
	37	00D 144 2870 004	CH FADER PANEL	for DN-X1500	1	*	
	37	00D 144 2989 102	CH FADER PLATE	DN-X1500S for Silver color model	1	*	△2 △3
	37	00D 144 2989 115	CH FADER PLATE	DN-X1500S for E2 Black color model	1	*	△3
	38	00D 105 1449 004	PLATE		1	*	
	39	00D 144 2869 002	CROSSFADER PANEL	for DN-X1500	1	*	
	39	00D 144 2988 103	CROSSFADER PLATE	DN-X1500S for Silver color model	1	*	△2 △3
	39	00D 144 2988 116	CROSSFADER PLATE	DN-X1500S for E2 Black color model	1	*	△3
	40	00D 211 5652 008	CROSSFADER(P&G)		1	*	
	40	00D 211 5658 002	FLEX FADER	for DN-X1500S	1	*	△2
	41	00D 113 1987 004	POWER KNOB		1	*	
	42	00D 112 0927 004	MASTER KNOB		1	*	
	43	00D 112 0926 005	MODE KNOB		2	*	
	44	00D 112 0888 004	KNOB (MARU)		23		
	45	00D 112 0888 017	KNOB (MARU)		8		
	46	00D 112 0889 003	ASSIGN KNOB (MARU)		8		
	47	00D 113 1920 003	CH FADER KNOB		4		
	48	00D 113 1986 005	CROSSFADER KNOB	for DN-X1500	1	*	
	48	00D 113 2052 006	CROSSFADER KNOB	for DN-X1500S	1	*	△2
	★	00D 513 1581 008	SERIAL NO. SHEET	for E3	1		
	★	00D 513 1642 002	NO. SHEET	for E2	1		
	★	00D 513 2303 007	VERSION LABEL		1		
	★	00D 513 3384 009	C-UL MARK US (813)	for E3	1		
	★	00D 513 2521 009	CE LABEL	for E2	1		
	★	00D 513 3159 001	FCC/CLASS B CAUTION	for E3	1		
	★	00D 513 3253 004	C-TICK LABEL	for E2	1		
	60	00D 009 0247 006	35P FFC		1		
	61	00D 203 5331 001	3P VH-VH CON.CORD		1		
	62	00D 009 0247 019	8P FFC (1.25)		1		
	63	00D 204 6350 055	11P KR-KR RIBBON 150		1		
	64	00D 461 1133 001	EMI GASKET		1		
	65	00D 461 1184 007	GAP PAD		1		
	66	00D 477 0231 040	4W(S)	for DN-X1500S	2		△2
SCREWS							
	101	0RD 471 1810 019	2X3 CPS		8		
	102	0RD 471 2303 020	3X6 CFS-B		14		
	103	0RD 471 3204 018	2.6X8 CBS-Z		6		
	104	0RD 471 3303 016	3X6 CBS-Z		2		
	105	0RD 473 7002 018	3X8 CBTS (S)-Z		10		
	106	0RD 473 7002 034	3X6 CBTS (S)-B		5		
	107	0RD 473 7004 016	4X6 CBTS (S)-Z		2		
	108	0RD 473 7007 013	4X10 CBTS (S)-B		4		
	109	0RD 473 7015 005	3X6 CBTS(S)-B		8		
	110	0RD 473 8007 083	3X8 CUP SCREW		12		
	111	0RD 475 1184 006	12 W		5		
	112	0RD 477 0064 107	FIXING SCREW		13		
	113	0RD 471 2801 030	3X5 CFS-B		2		

PACKING VIEW

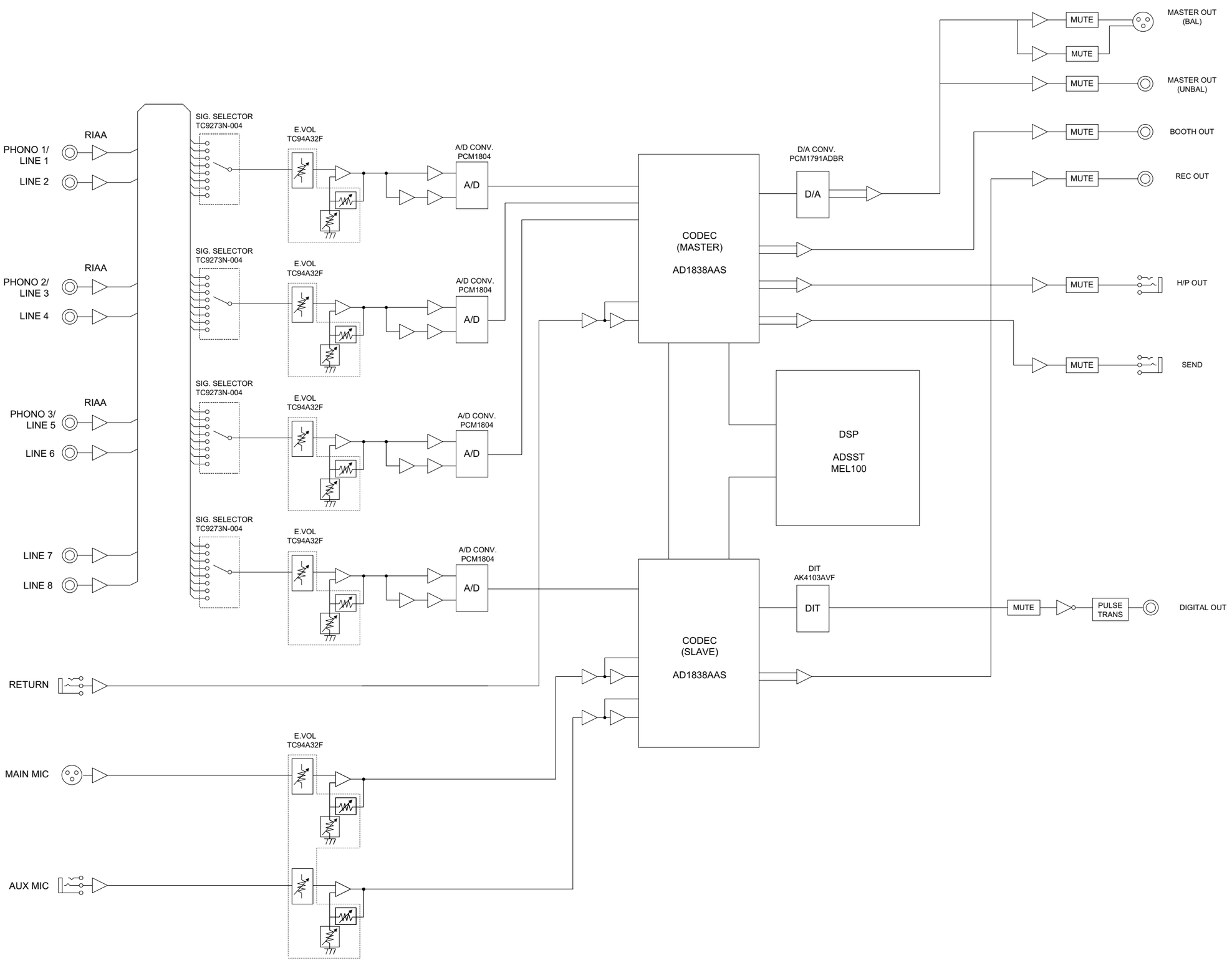


PARTS LIST OF PACKING & ACCESSORIES

Note: The symbols in the column "Remarks" indicate the following destinations.
E3 : U.S.A., & Canada model
E2 : Europe model
JP :Japan model △2

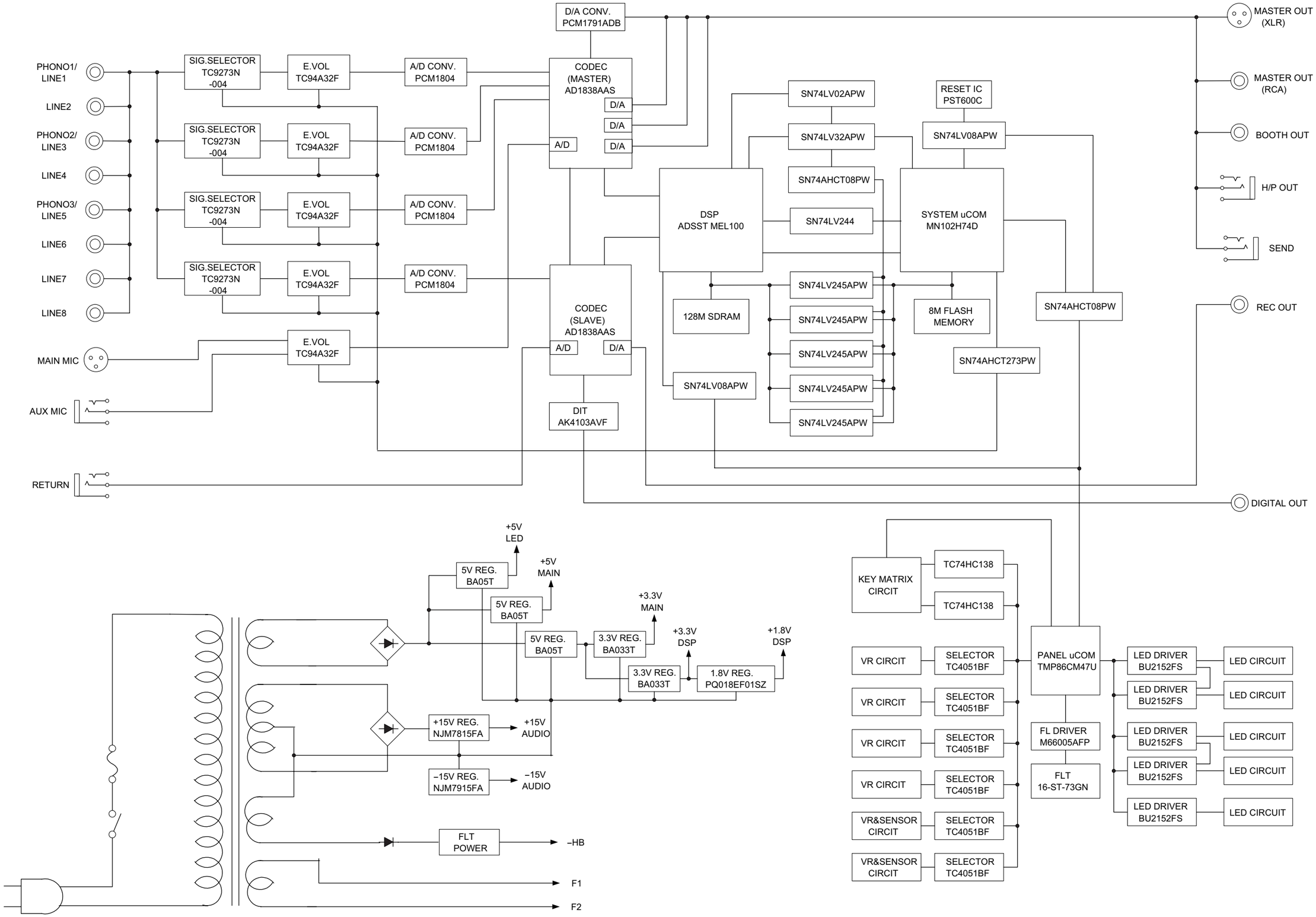
	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New	
	201	00D 505 0350 019	STYLEN PAPER		1		
	202	00D 503 1480 005	CUSHION		2	*	
	203	00D 505 0038 030	POLY COVER		1		
	204	00D 515 0945 007	WARRANTY (COM.)	for E3	1		
	204	00D 515 0919 208	GUARANTEE(S) SUB ASS'Y	for JP	1		△2
	205	00D 511 4143 007	INST.MANUAL	DN-X1500 for E2, E3	1	*	
	205	00D 511 4516 003	INST.MANUAL	DN-X1500S for E2, E3	1	*	△2
	205	00D 511 4517 002	INST.MANUAL	DN-X1500S for JP	1	*	△2
	206	00D 515 0923 207	S.S.LIST COM.(EX)		1		
	206	00D 515 0918 403	S.S.LIST	DN-X1500S for JP	1		△2
	207	00D 501 2237 015	CARTON CASE	DN-X1500 for E2, E3	1	*	
	207	00D 501 2337 009	CARTON CASE	DN-X1500S for E2, E3	1	*	△2
	207	00D 501 2337 012	CARTON CASE	DN-X1500S for JP	1	*	△2
	208	00D GEN 8753	COLOR LABEL (BLACK)	DN-X1500S for E2 Black color model	2	*	△3
	★	-	CONT.CARD(L)SUB ASSY		1		
	★	-	BAR CODE LABEL ASS'Y		1		

BLOCK DIAGRAM AUDIO PART



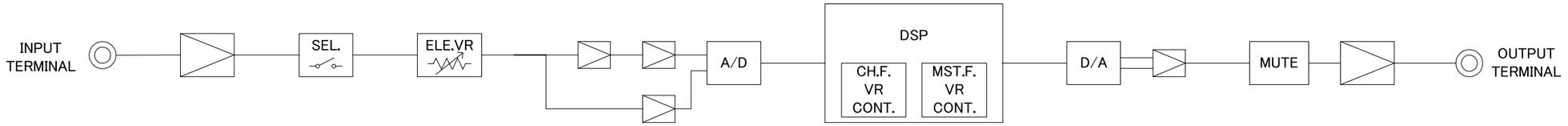
BLOCK DIAGRAM SYSTEM PART

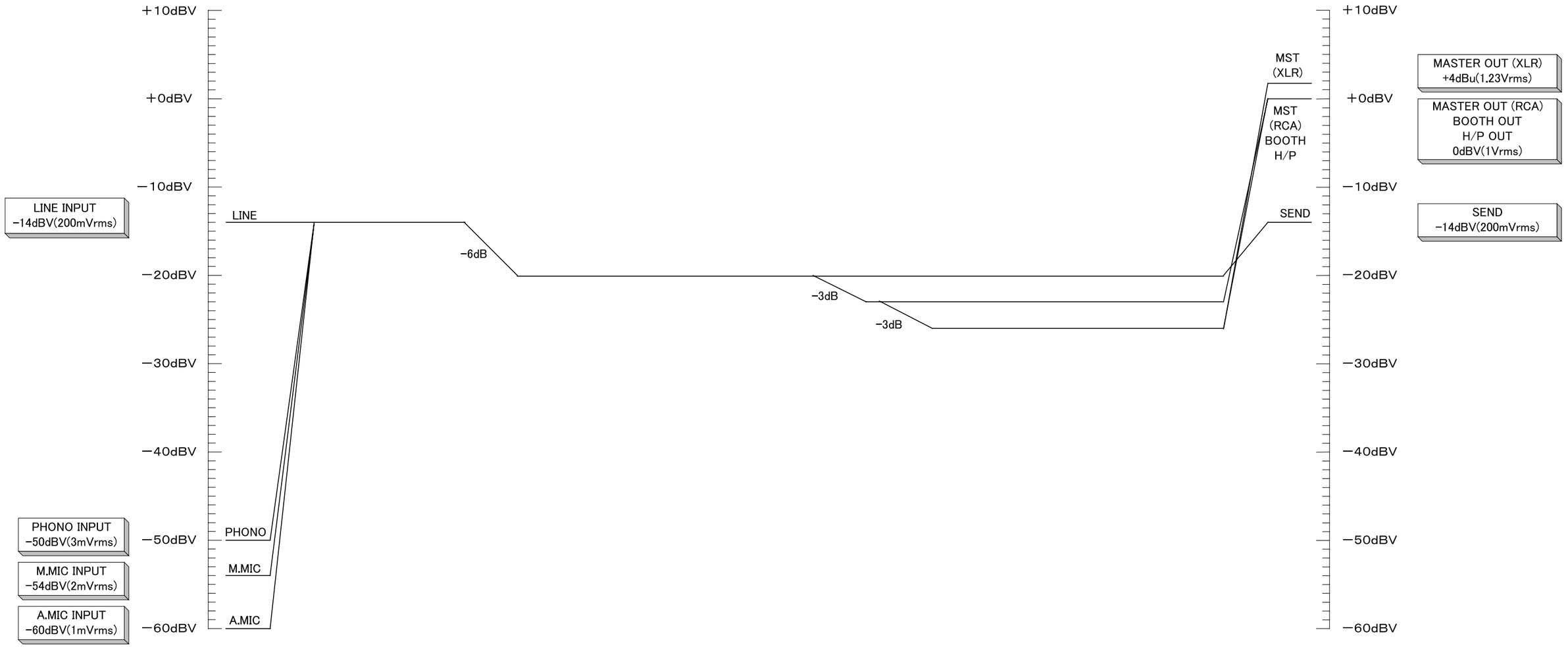
DN-X1500/DN-X1500S



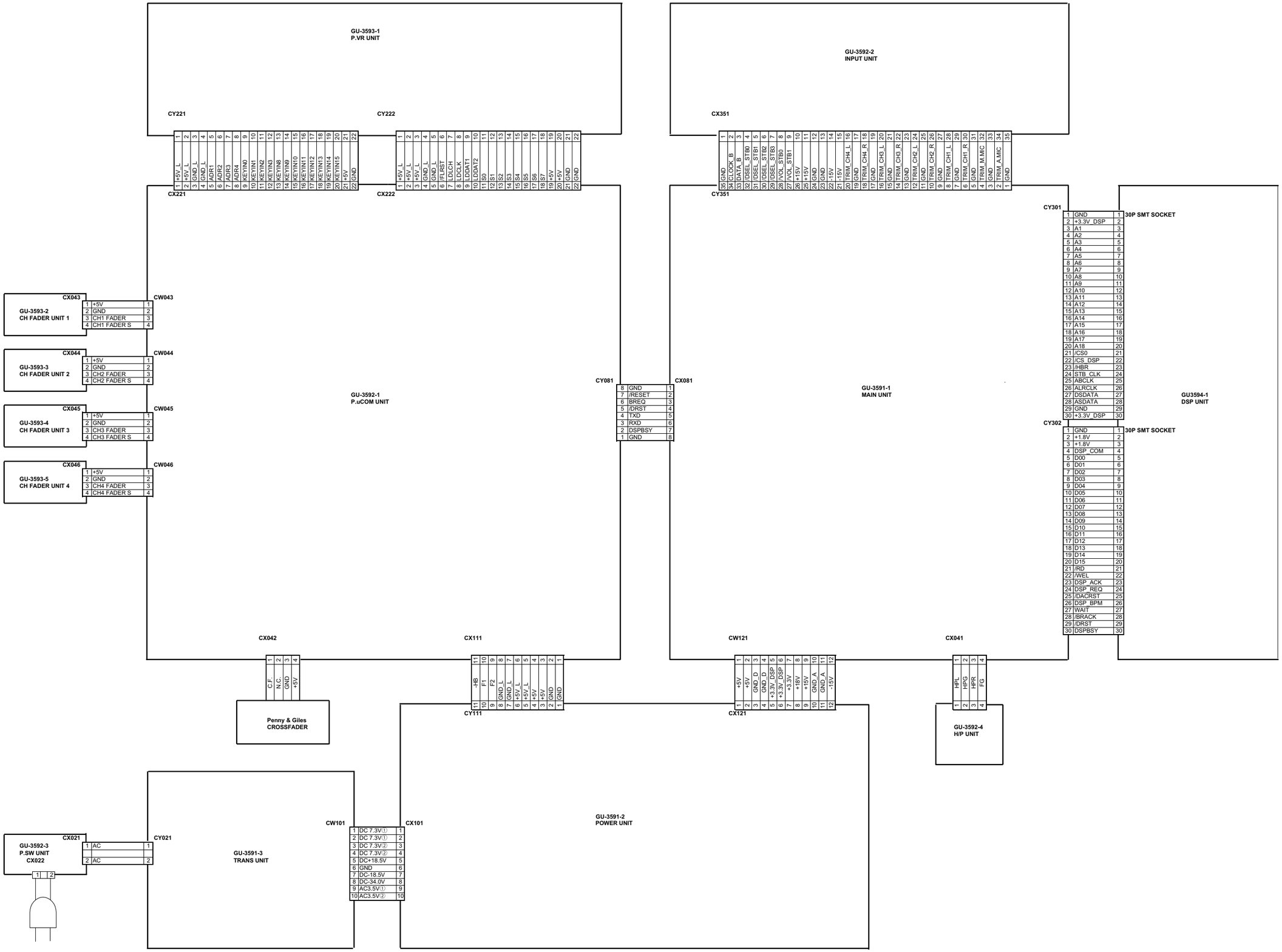
LEVEL DIAGRAM

DN-X1500/DN-X1500S





WIRING DIAGRAM



DOCUMENTS FOR WEEE (Europe model) ⚠2

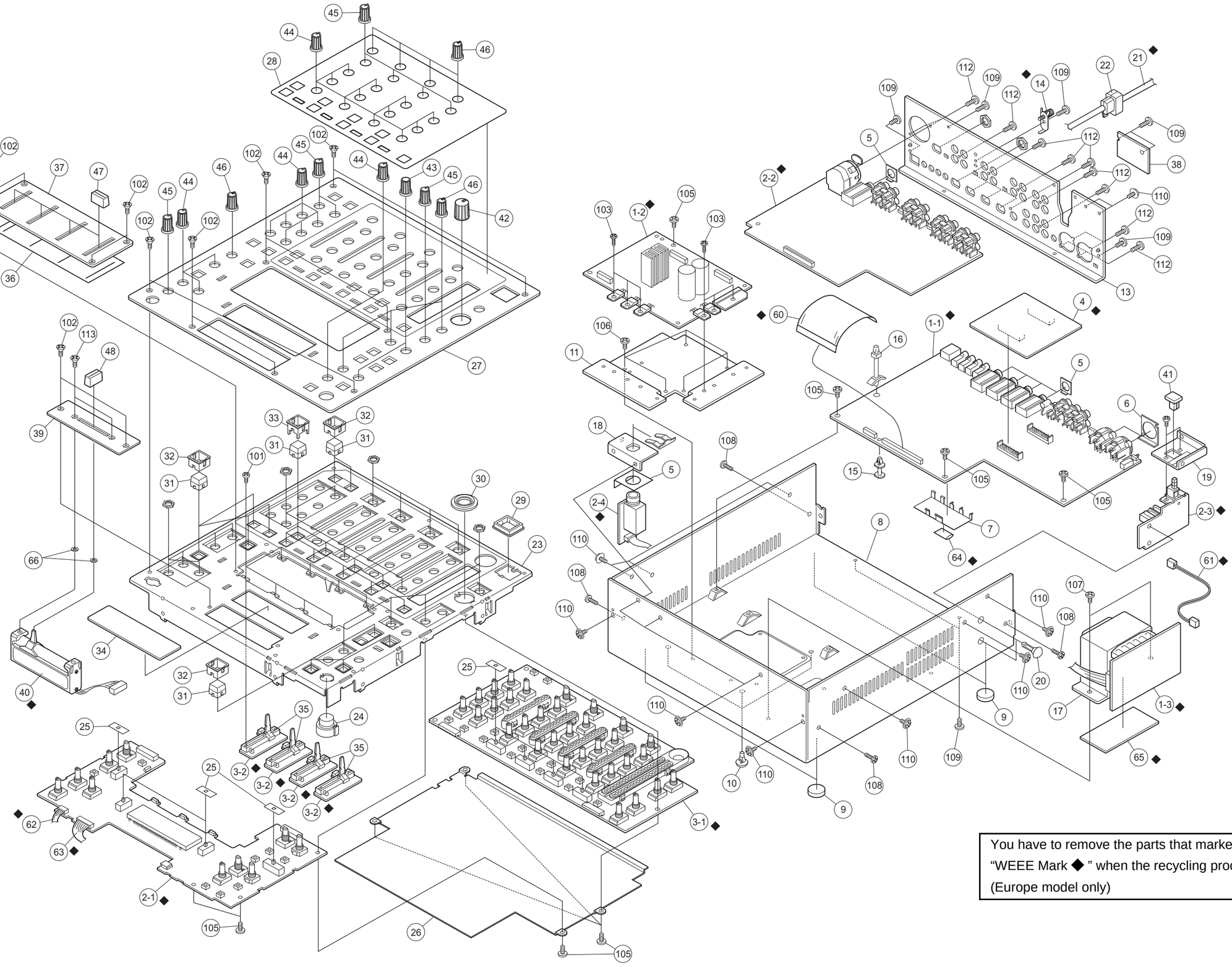
Details of Recycle parts (DN-X1500/DN-X1500S)

＊ You have to remove the parts that marked "WEEE Mark ◆ " when the recycling processing.

Ref. No.	WEEE Mark	Part Name	Material	Q'ty
1-1	◆	MAIN UNIT	Complex	
1-2	◆	POWER UNIT	Complex	
1-3	◆	TRANS UNIT	Complex	
2-1	◆	P.UCOM UNIT	Complex	
2-2	◆	INPUT UNIT	Complex	
2-3	◆	P.SW UNIT	Complex	
2-4	◆	H/P UNIT	Complex	
3-1	◆	P.VR UNIT	Complex	
3-2	◆	CH FADER UNIT 1	Complex	
3-2	◆	CH FADER UNIT 2	Complex	
3-2	◆	CH FADER UNIT 3	Complex	
3-2	◆	CH FADER UNIT 4	Complex	
4	◆	DSP P.W.B. UNIT ASS'Y	Complex	1
5		EARTH PLATE	Steel	6
6		EARTH PLATE	Steel	2
7		EARTH BRACKET	Steel	1
8		BOTTOM COVER	Steel	1
9		FOOT SHEET	Rubber	4
10		CARD SPACER (H=10)	PA66	3
11		RADIATOR	AL	1
13		BACK PANEL	Steel	1
14	◆	TERMINAL ASS	Complex	1
15		CARD SPACER (L=8)	PA66	1
16		LOCKING CARD SPACER	PA66	1
17		POWER TRANS	Complex	1
18		H/P BRACKET	Steel	1
19		P.SW.BRACKET	Steel	1
20		LOCKING CARD SPACER	PA66	2
21	◆	AC CORD W/CON.E2	Complex	1
22		CORD BUSH	PA66	1
23		SUB PANEL	Steel	1
24		TAP BUTTON	Rubber	1
25		BLIND SHEET (SW)	Leatfer	8
26		SHIELD PLATE	Steel	1
27		TOP PANEL	Steel (for DN-X1500)	1
27		TOP PANEL	AL (for DN-X1500S)	1
28		SHEET	PVC	1
29		POWER KNOB GUIDE	PMMA	1
30		KNOB RING	PMMA	1
31		BUTTON	ABS	20
32		BUTTON BASE	ABS	11
33		BUTTON BASE (2)	ABS	9
34		WINDOW	PMMA	1
36		BLIND SHEET	Leather	1
37		CH FADER PANEL	Steel (for DN-X1500)	1
37		CH FADER PLATE	AL (for DN-X1500S)	1
38		PLATE	AL	1
39		CROSSFADER PANEL	Steel (for DN-X1500)	1
39		CROSSFADER PLATE	AL (for DN-X1500S)	1
40	◆	CROSSFADER(P&G)	Complex (for DN-X1500)	1
40	◆	LFLEX FADER	Complex (for DN-X1500S)	1
41		POWER KNOB	ABS	1
42		MASTER KNOB	ABS	1
43		MODE KNOB	ABS	2
44		KNOB (MARU)	ABS	23

Ref. No.	WEEE Mark	Part Name	Material	Q'ty
45		KNOB (MARU)	ABS	8
46		ASSIGN KNOB (MARU)	ABS	8
47		CH FADER KNOB	ABS	4
48		CROSSFADER KNOB	ABS	1
60	◆	35P FFC	Complex	1
61	◆	3P VH-VH CON.CORD	Complex	1
62	◆	8P FFC (1.25)	Complex	1
63	◆	11P KR-KR RIBBON 150	Complex	1
64	◆	EMI GASKET	Complex	1
65	◆	GAP PAD	Complex	1
66		4W(S)	PVC (for DN-X1500S)	2
101		2X3 CPS	Steel	8
102		3X6 CFS-B	Steel	14
103		2.6X8 CBS-Z	Steel	6
104		3X6 CBS-Z	Steel	2
105		3X8 CBTS (S)-Z	Steel	10
106		3X6 CBTS (S)-B	Steel	5
107		4X6 CBTS (S)-Z	Steel	2
108		4X10 CBTS (S)-B	Steel	4
109		3X6 CBTS(S)-B	Steel	8
110		3X8 CUP SCREW	Steel	12
111		12 W	PVC	5
112		FIXING SCREW	Steel	13
113		3X5 CFS-B	Steel	2

Exploded view of DN-X1500/DN-X1500S unit (Europe model)

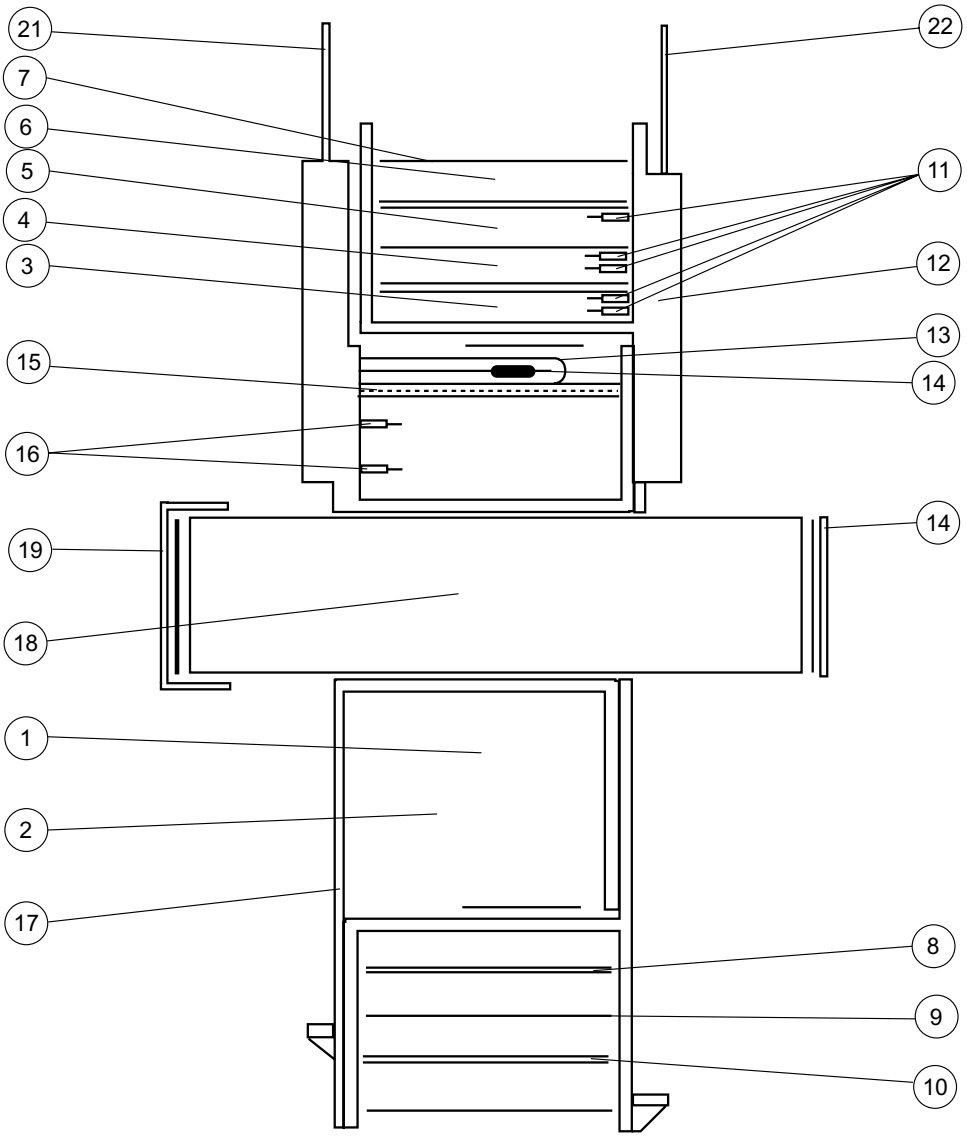


You have to remove the parts that marked "WEEE Mark ◆ " when the recycling processing. (Europe model only)

Details of Recycle parts for Power Transformer (Ref. No. 17)

Ref. No.	Material
1	Polyurethane Covered Wire / Polyestel Enameled Wire
2	
3	
4	
5	
6	
7	Polyester Tape
8	
9	
10	
11	Polyester Film/ Polyester Non-woven Insulating Tape

Ref. No.	Material
12	Polybuthylene Terephtalate
13	Polyestar Tape (Spiral Form)
14	Thermal fuse
15	Polyester combination Tape
16	Polyester Film/ Polyester Non-woven Insulating Tape
17	Polybuthyrene terephtalate
18	Silicon Steel
19	Steel
20	Steel
21	Copper Wire
22	Copper Wire



NOTE FOR SCHEMATIC DIAGRAM

1. WARNING:

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

2. CAUTION:

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

3. WARNING:

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

4. NOTICE

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

SIGNAL LINE

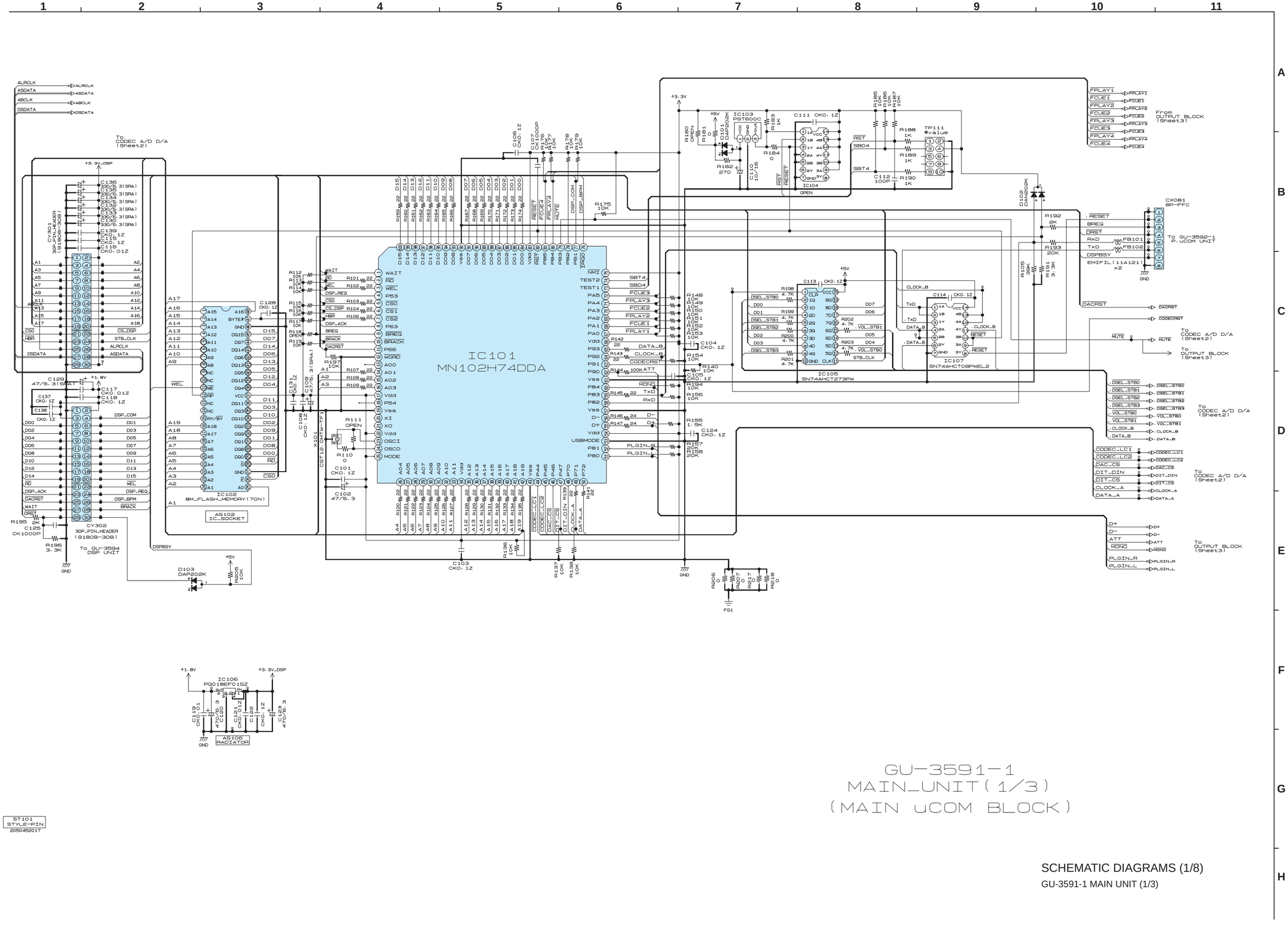
配線図について

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

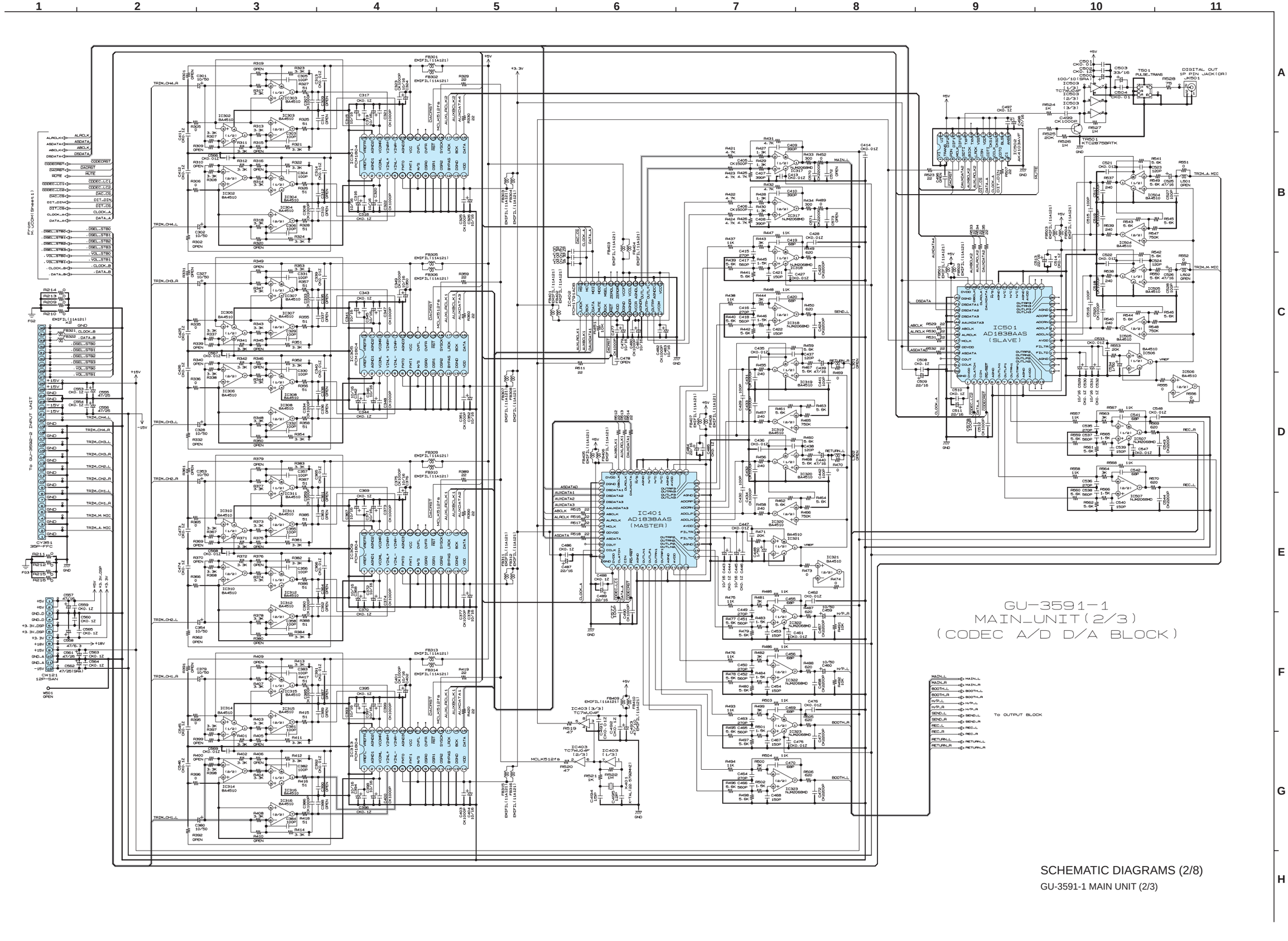
注）

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

SIGNAL LINE


IC101
MN102H74DDA
IC103
PST600C
IC104
IC105
SN74AHCT273PW
IC106
PQ018EF01SZ
IC107
SN74AHCT08PWEL2
IC102
8M_FLASH_MEMORY(70N)
CY301
30P_PIN_HEADER
(91808-308)
CY302
30P_PIN_HEADER
(91808-308)
To CODEC A/D D/A (Sheet2)
From OUTPUT BLOCK (Sheet3)
To OUTPUT BLOCK (Sheet3)
To GU-3594 DSP UNIT
To GU-3592-1 P.uCOM UNIT
ST101
STYLE-PIN
2050452017
GU-3591-1
MAIN_UNIT(1/3)
(MAIN uCOM BLOCK)

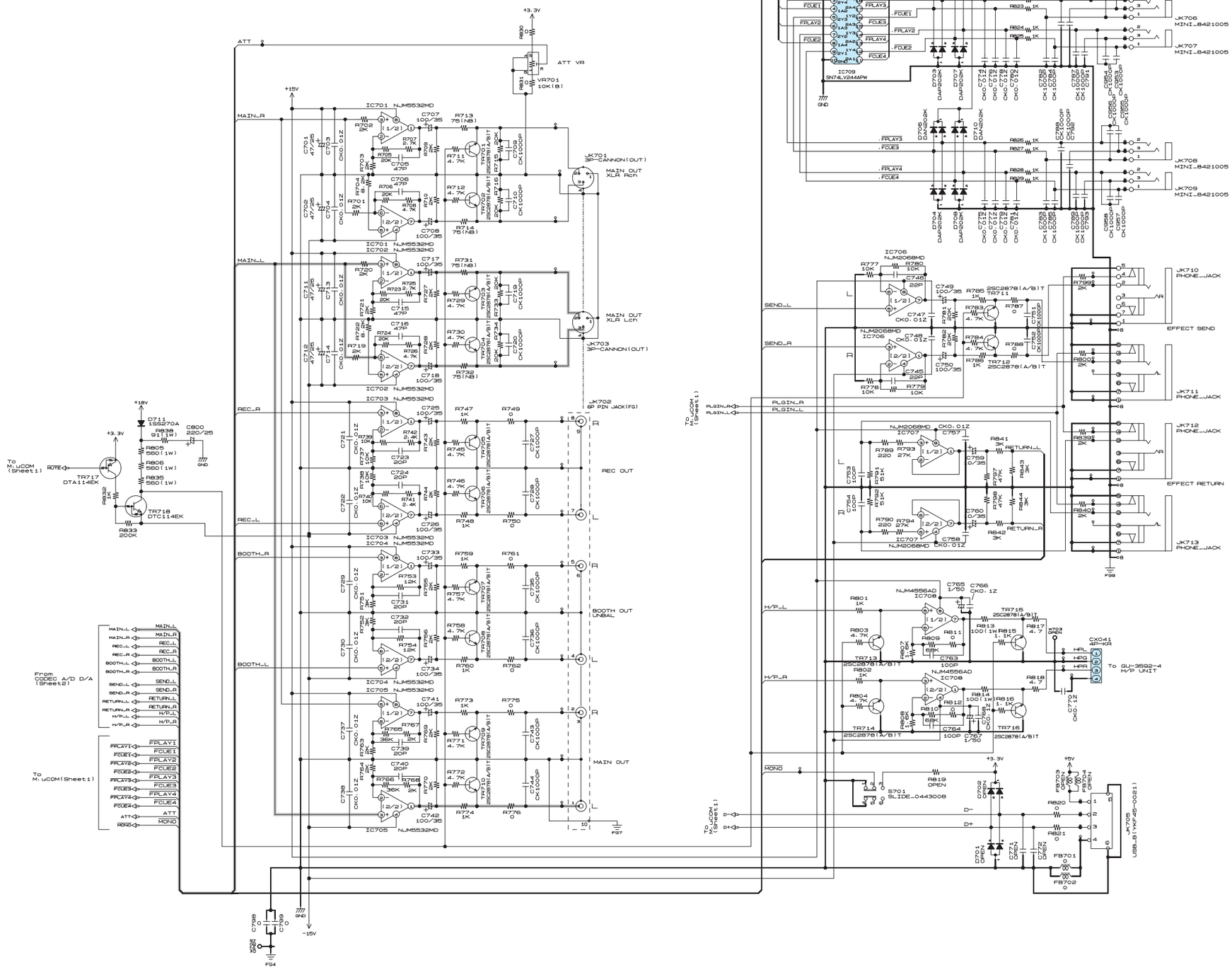
SCHEMATIC DIAGRAMS (2/8)



SCHEMATIC DIAGRAMS (2/8)

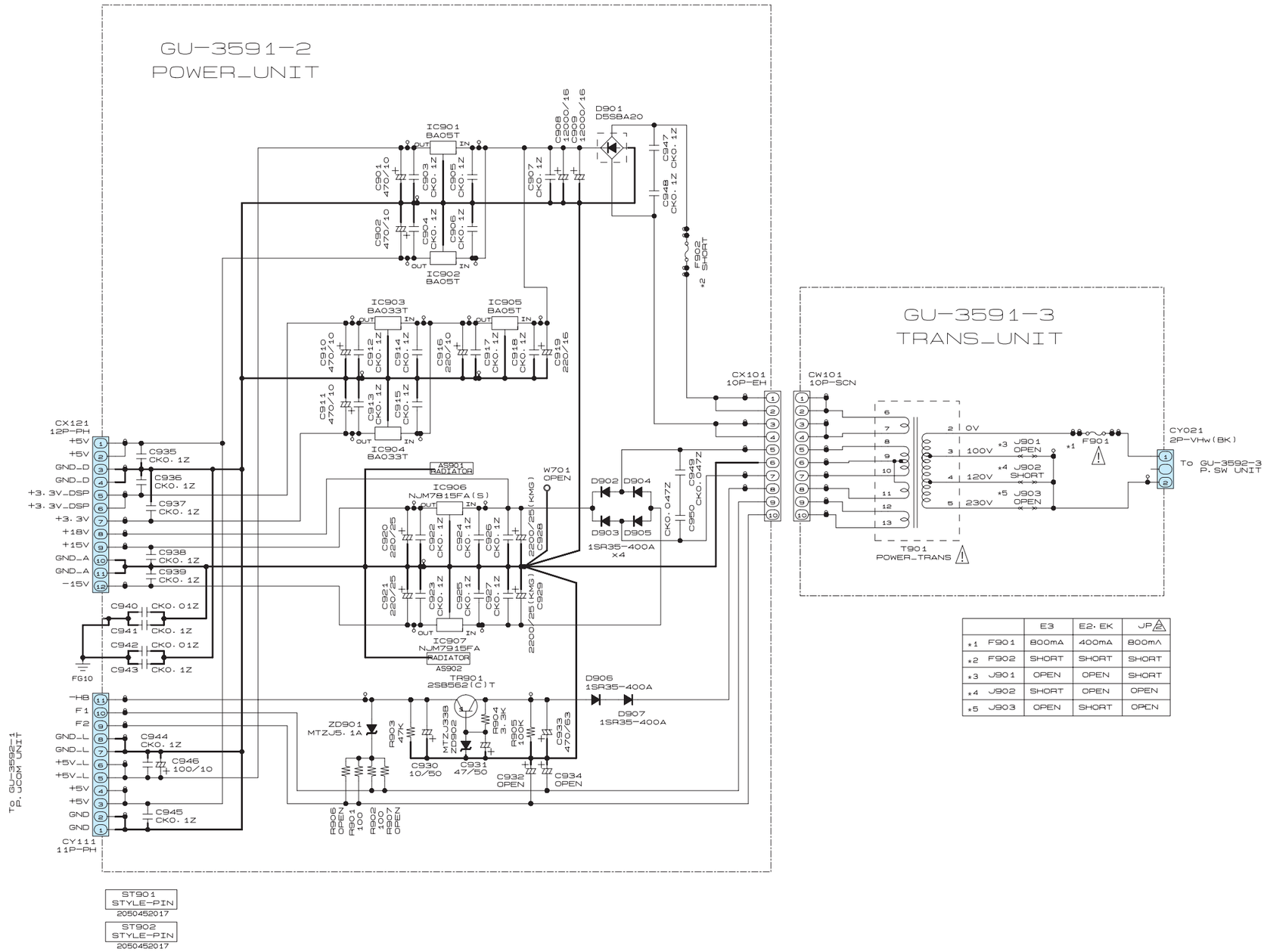
GU-3591-1 MAIN UNIT (2/3)

GU-3591-1
MAIN_UNIT(3/3)
(OUTPUT BLOCK)



SCHEMATIC DIAGRAMS (3/8)

GU-3591-1 MAIN UNIT (3/3)



		E3	E2.EK	JP
*1	F901	800mA	400mA	800mA
*2	F902	SHORT	SHORT	SHORT
*3	J901	OPEN	OPEN	SHORT
*4	J902	SHORT	OPEN	OPEN
*5	J903	OPEN	SHORT	OPEN

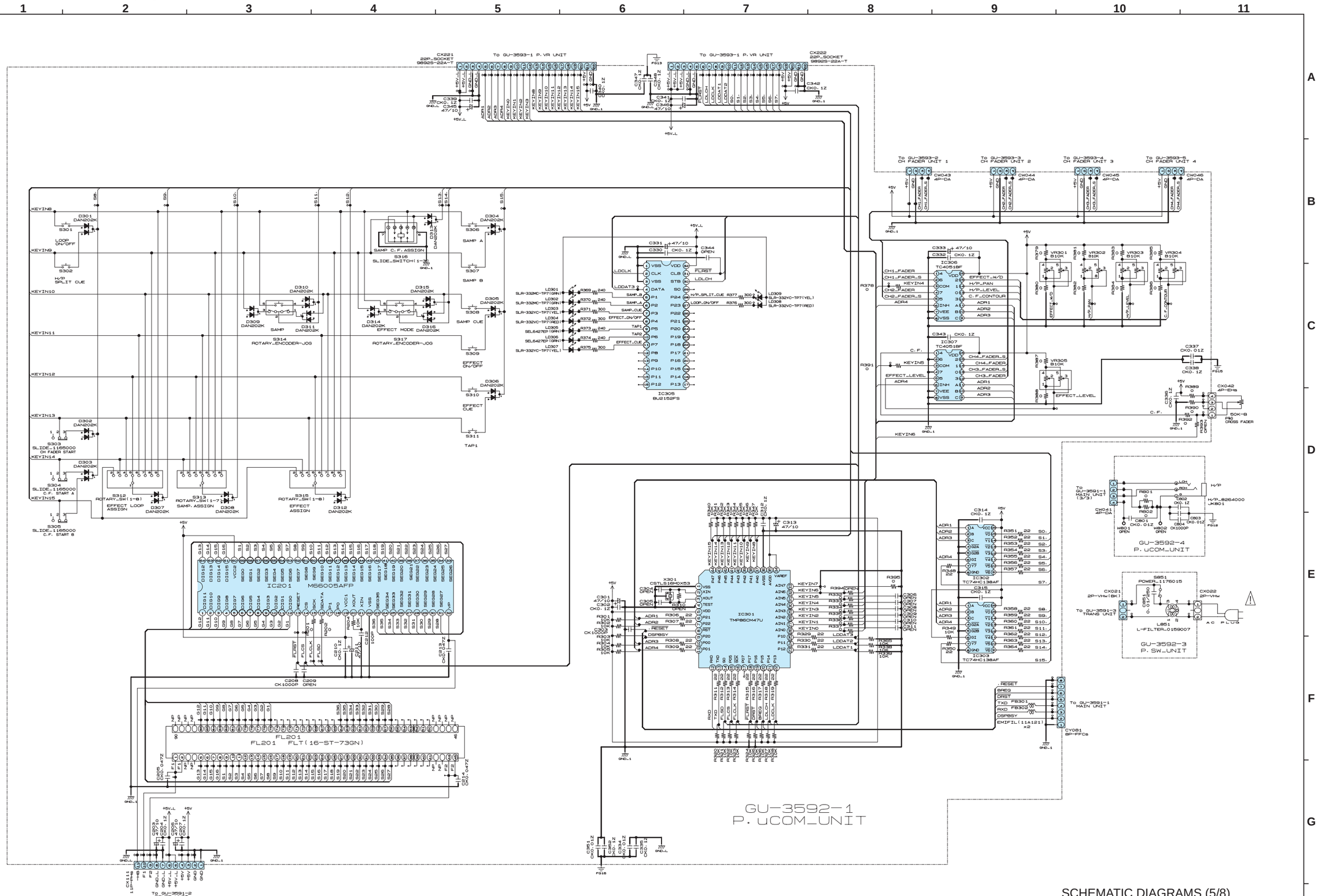
ST901 STYLE-PIN 2050452017

ST902 STYLE-PIN 2050452017

SCHEMATIC DIAGRAMS (4/8)

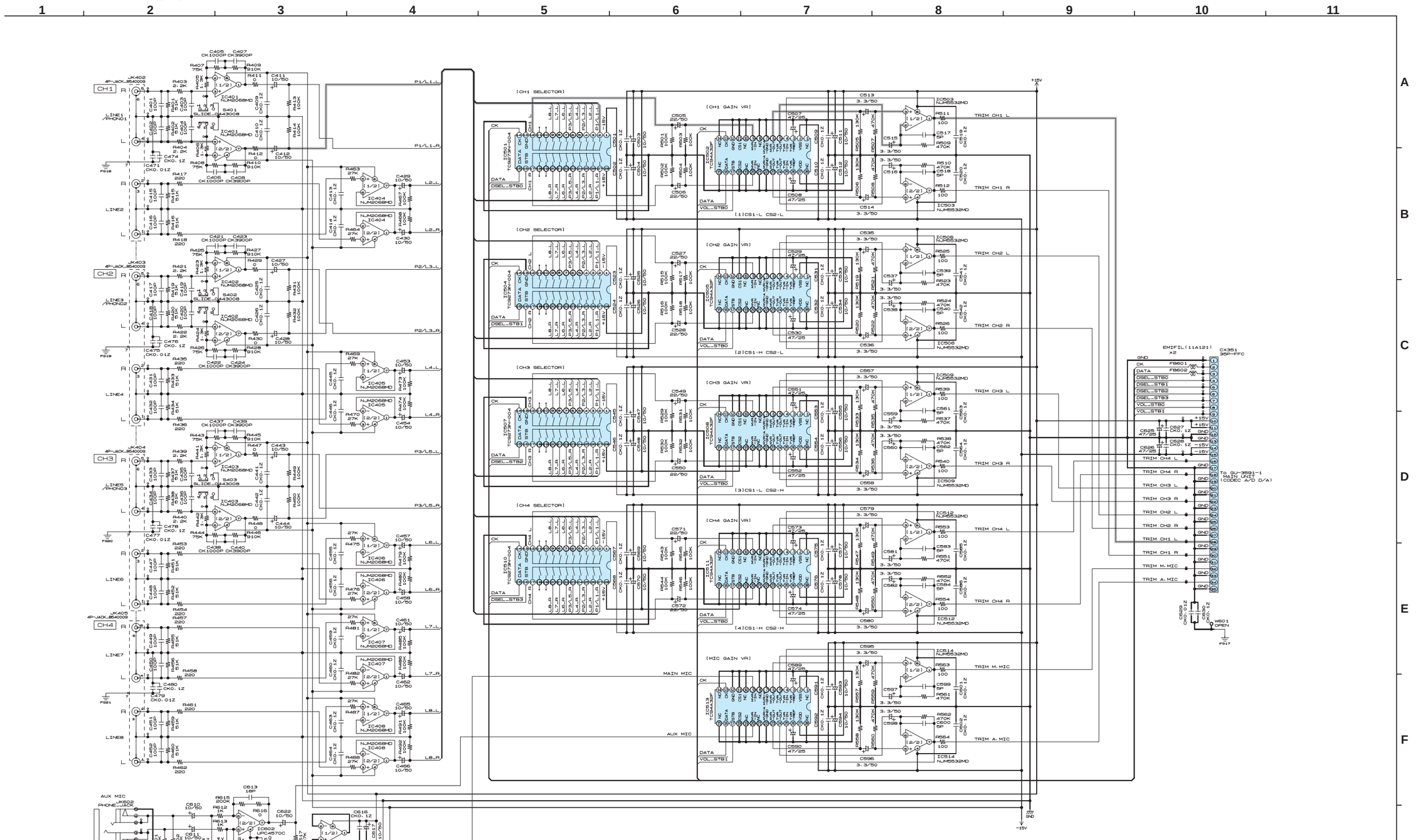
GU-3591-2 POWER UNIT
GU-3591-3 TRANS UNIT

SCHEMATIC DIAGRAMS (5/8)



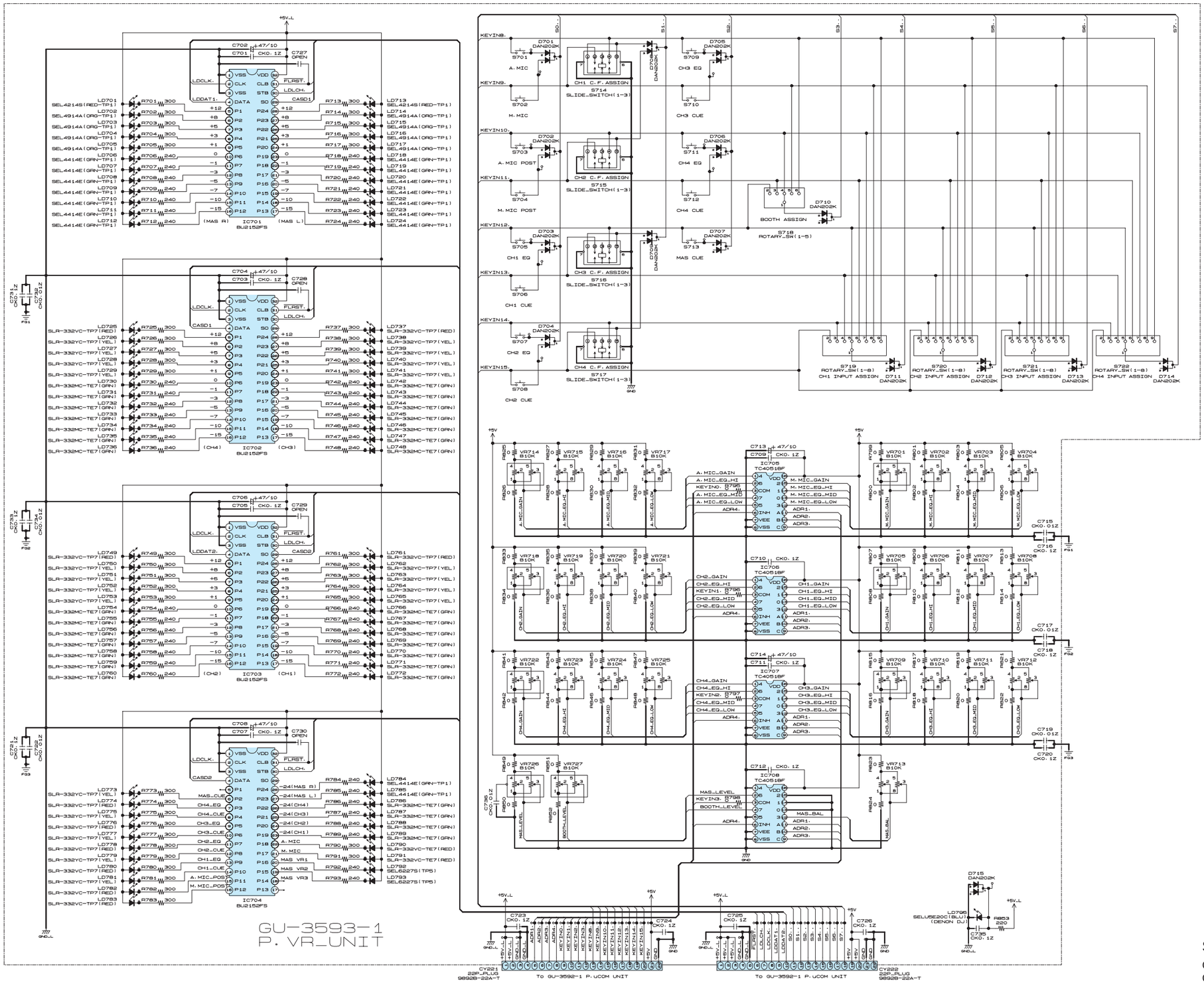
SCHEMATIC DIAGRAMS (5/8)

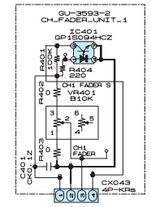
GU-3592-1 P. uCOM UNIT
GU-3592-3 P. SW UNIT
GU-3592-4 P. uCOM UNIT

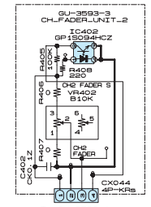


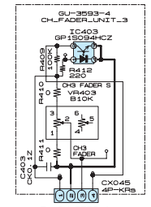
SCHEMATIC DIAGRAMS (6/8)

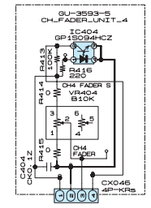
GU-3592-2 INPUT UNIT





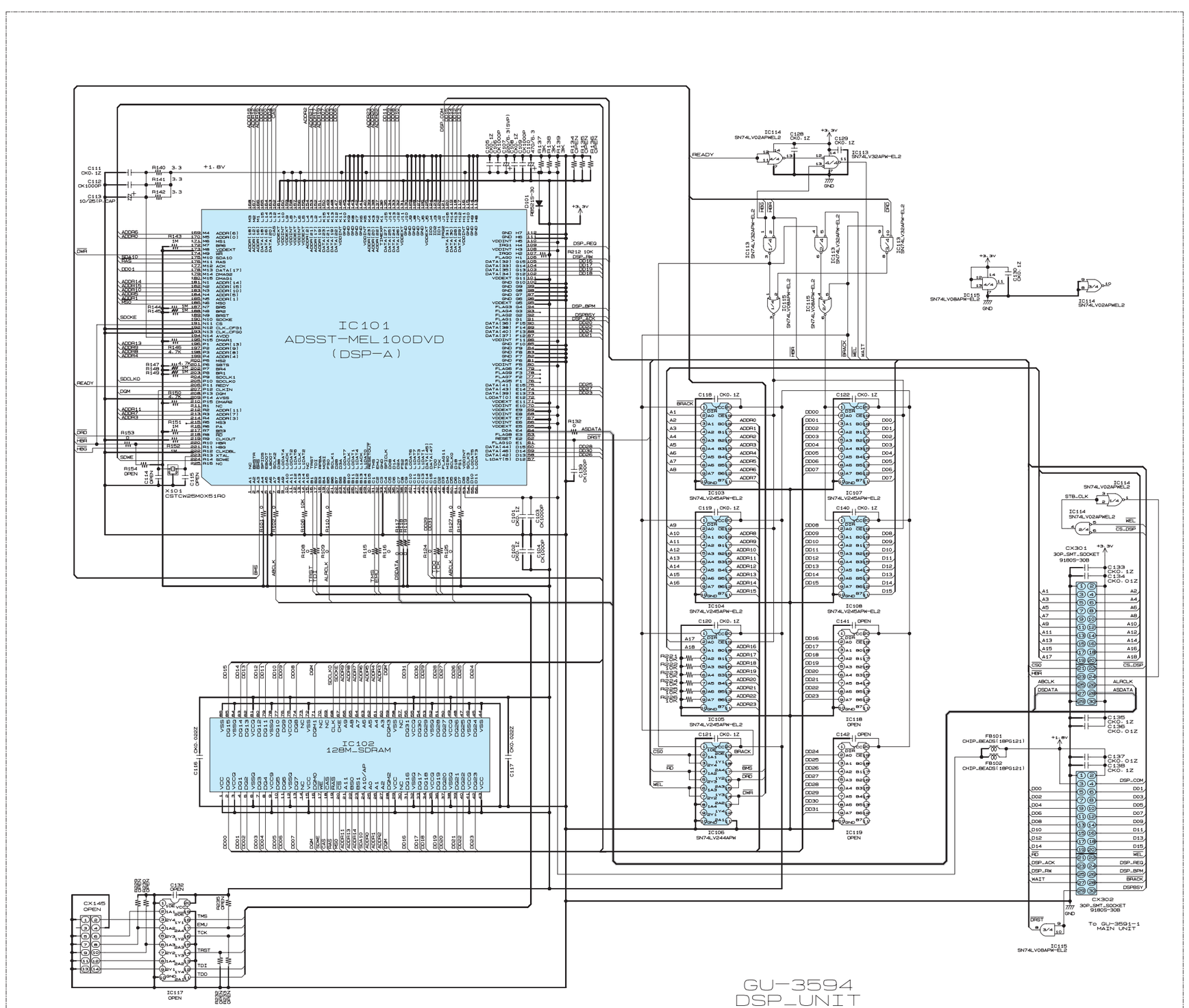






SCHEMATIC DIAGRAMS (7/8)

GU-3593-1 P. VR UNIT
GU-3593-2 CH FADER UNIT 1
GU-3593-3 CH FADER UNIT 2
GU-3593-4 CH FADER UNIT 3
GU-3593-5 CH FADER UNIT 4



SCHEMATIC DIAGRAMS (8/8)

GU-3594 DSP UNIT