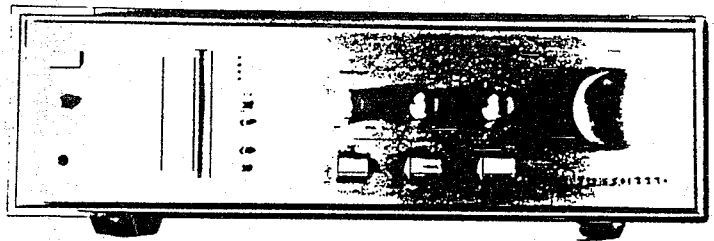




# Service Manual

## Nakamichi 1000p

Digital Audio Processor



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## 1. GENERAL

### 1.1. CAUTIONS/WARNINGS

#### (1) Product Safety Notice

Parts marked with the symbol  in the schematic diagram have critical characteristics.

Use ONLY replacement parts recommended by the manufacturer.

It is recommended that the unit be operated from a suitable DC supply or batteries during initial check-out procedures.

#### (2) Leakage Current Check/Resistance 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 milliamp, or if the resistance from the chassis to either side of the power cord is less than 240 K ohms, the unit is defective.

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

### 1.2. Destinations

USA - U.S.A.

CAN - Canada

EP - Europe

SWT - Switzerland

UK - United Kingdom

AUS - Australia

OTR - Other

JPN - Japan

### 1.3. Consumer Version/Professional Version

In the consumer version and professional version, some parts differ. Parts for consumer version are indicated as [N-1000P] in the parts list, and those for professional version are indicated as [N-1000P Pro.].

1.4. Package Ass'y and Accessory Ass'y

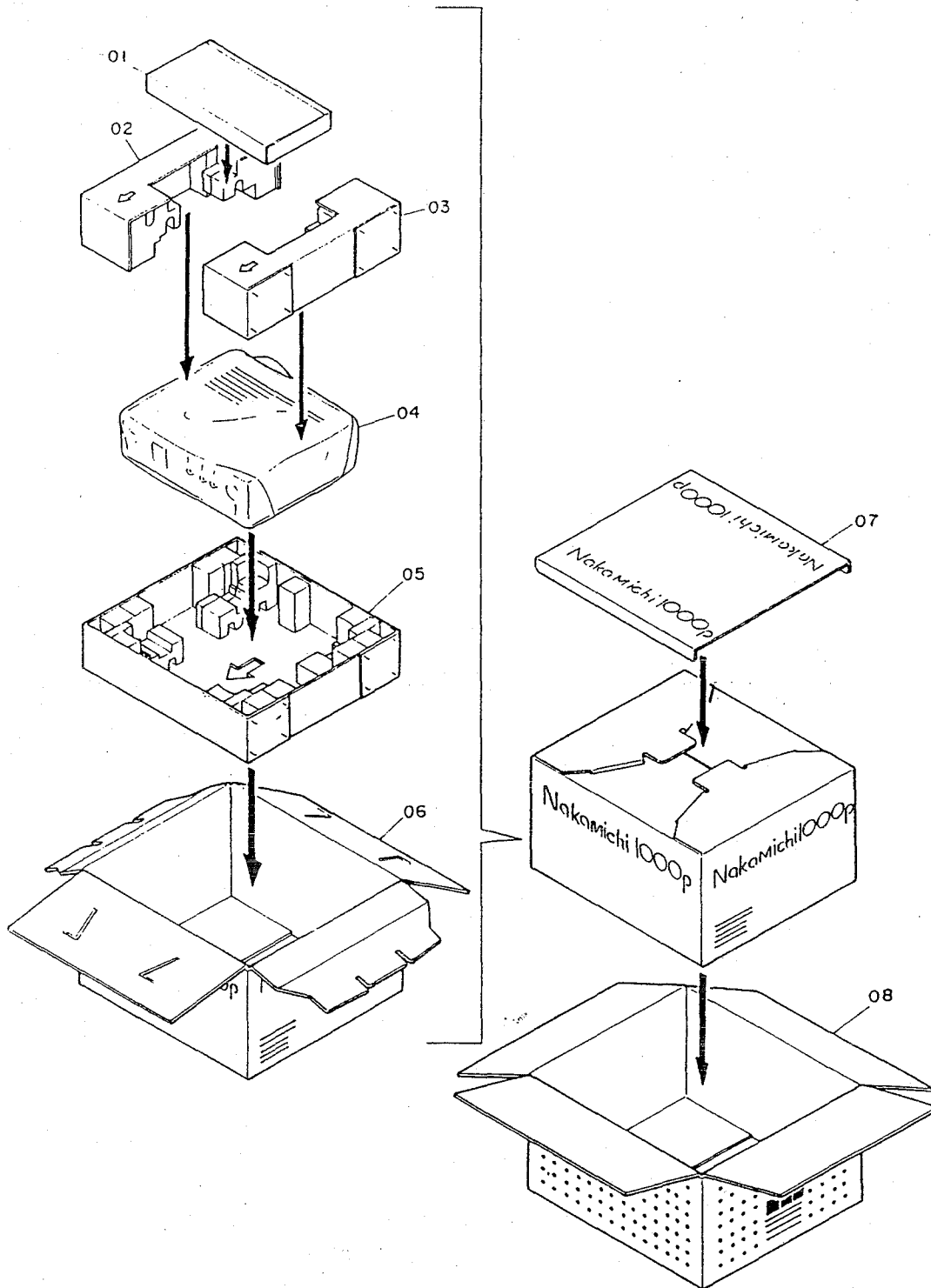


Fig. 1 Package Ass'y

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Q'ty</u>
	-	Package Ass'y	
01	-	Accessory Ass'y	1
02	OF04246A	Packing Top Left	1
03	OF04247A	Packing Top Right	1
04	OF04241B	Soft Sheet	1
05	OF04245B	Packing Bottom	1
06	OF04236A	Inner Carton	1
07	OF04229A	Top Sheet	1
08	OF04233A	Outer Carton	1

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Q'ty</u>
	-	Accessory Ass'y	1
	OF04239B	Accessory Box	1
	OD03092B	Poly Bag (For Accessory)	1
	OD04941A	Owner's Manual (English/German/French)	1
	OD04942A	Owner's Manual (Japanese)	1
	OD04936A	RCA Audio Cable (WHT)	2
	OD04997A	RCA Audio Cable (RED)	2
	OD04212A	Poly Bag (For Accessory) [N-1000P Pro.]	2
	OE03535A	M4x12 + Countersunk [N-1000P Pro.]	6
	OJ05954A	Pull-out Screw [N-1000P Pro.]	2
	HA05720A	Handle Ass'y [N-1000P Pro.]	2

## 2. REMOVAL PROCEDURES

### 2.1. Top Cover Front/Rear Ass'y

Refer to Fig. 2.1.

- (1) Loosen screws F01 (3 pcs.) and remove F02 (Top Cover Rear Ass'y).
- (2) Loosen screws F03 (2 pcs.), and slide F04 (Top Cover Front Ass'y) rearward to remove it.

### 2.2. Bottom Cover Front/Rear Ass'y

Refer to Fig. 2.2.

- (1) Loosen screws F01 (4 pcs.) and F02 (1 pce.), and remove F03 (Bottom Cover Front Ass'y).
- (2) Loosen screws F04 (4 pcs.) and F05 (1 pce.), and remove F06 (Bottom Cover Rear Ass'y).

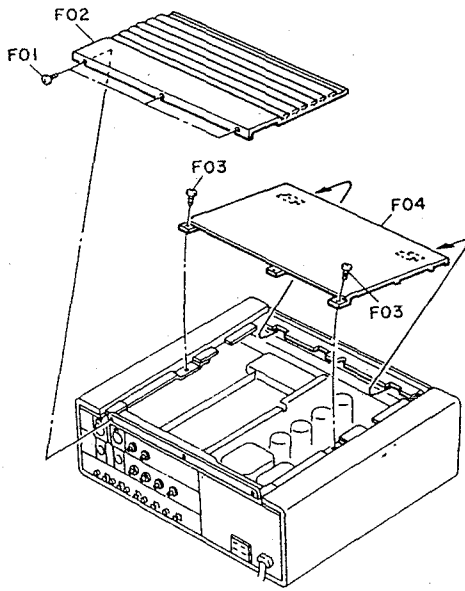


Fig. 2.1

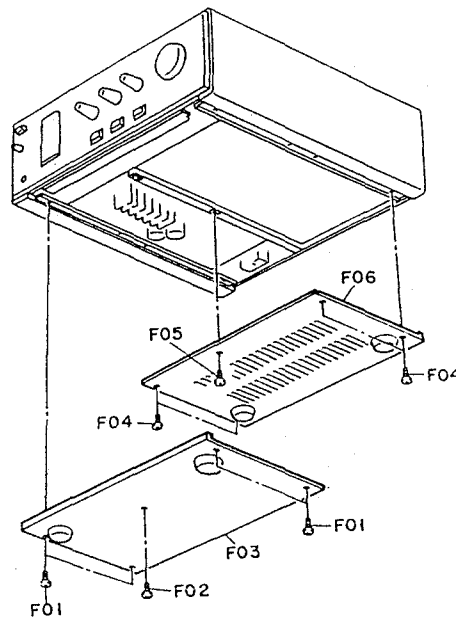


Fig. 2.2

### 2.3. Front Panel Ass'y and Master Volume Knob Ass'y

Refer to Fig. 2.3.

- (1) Remove the Top Cover Front/Rear Ass'y referring to item 2.1.
- (2) Remove the Bottom Cover Front Ass'y referring to item 2.2.
- (3) Remove screws F01 (6 pcs.) and remove F02 (Front Panel Ass'y).
- (4) Disconnect connectors of F02 (Front Panel Ass'y) from the main body.
- (5) Loosen a cup point screw F03 with a hex. wrench from the rear side of F02 (Front Panel Ass'y), and remove F04 (Master Volume Knob Ass'y).

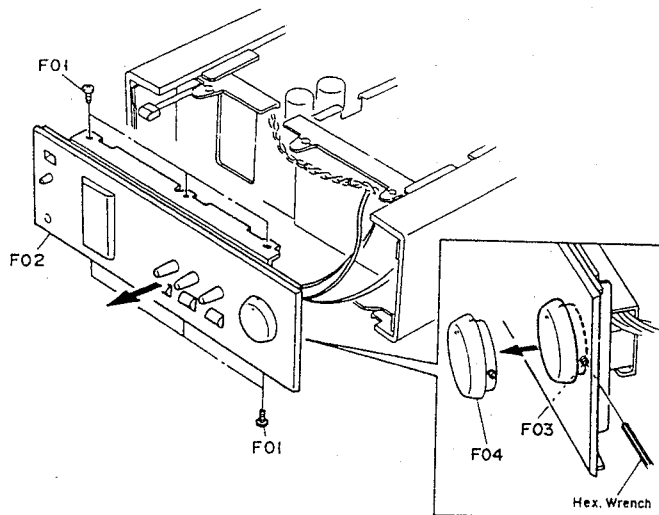


Fig. 2.3

### 2.4. Side Panel Left/Right

Refer to Fig. 2.4.

- (1) Remove the Top Cover Front/Rear Ass'y referring to item 2.1.
- (2) Remove the Bottom Cover Front/Rear Ass'y referring to item 2.2.
- (3) Loosen screws F01 (5 pcs.) and remove F02 (Side Panel Left).
- (4) Loosen screws F03 (5 pcs.) and remove F04 (Side Panel Right).

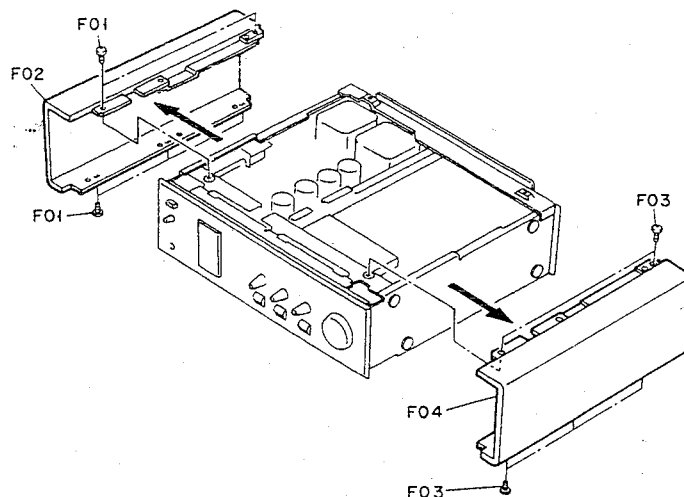


Fig. 2.4

## 2.5. P.C.B. Ass'y

Refer to Figs. 2.5.1 and 2.5.2.

- (1) Loosen screws F01 (2 pcs.) and screw them into holes A. See Fig. 2.7.1.
- (2) Hold the screw heads and pull out P.C.B. Ass'y along card rails. See Fig. 2.5.2.

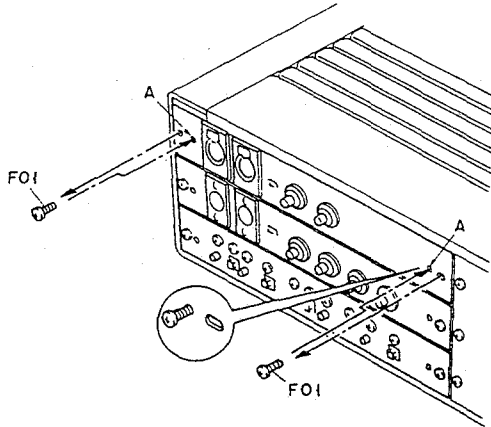


Fig. 2.5.1

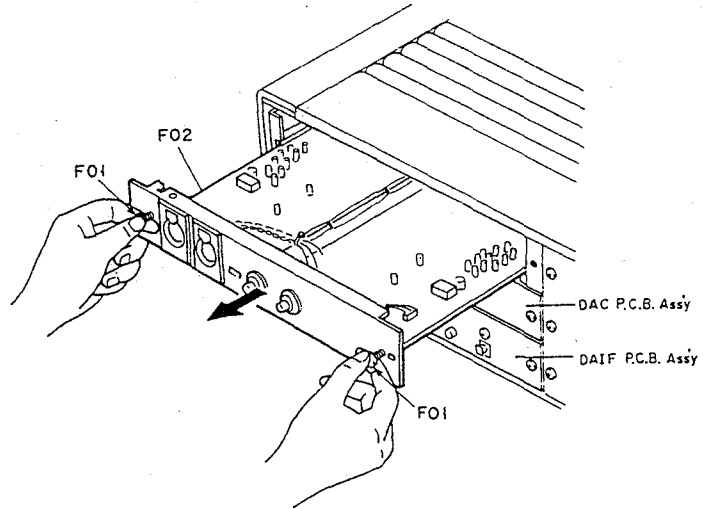


Fig. 2.5.2



### 3. ADJUSTMENTS

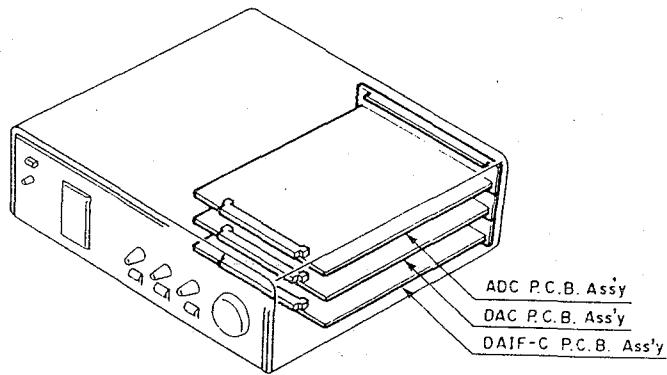


Fig. 3.1 Nakamichi 1000P (Front View)

#### 3.1. Parts Location for Electrical Adjustment

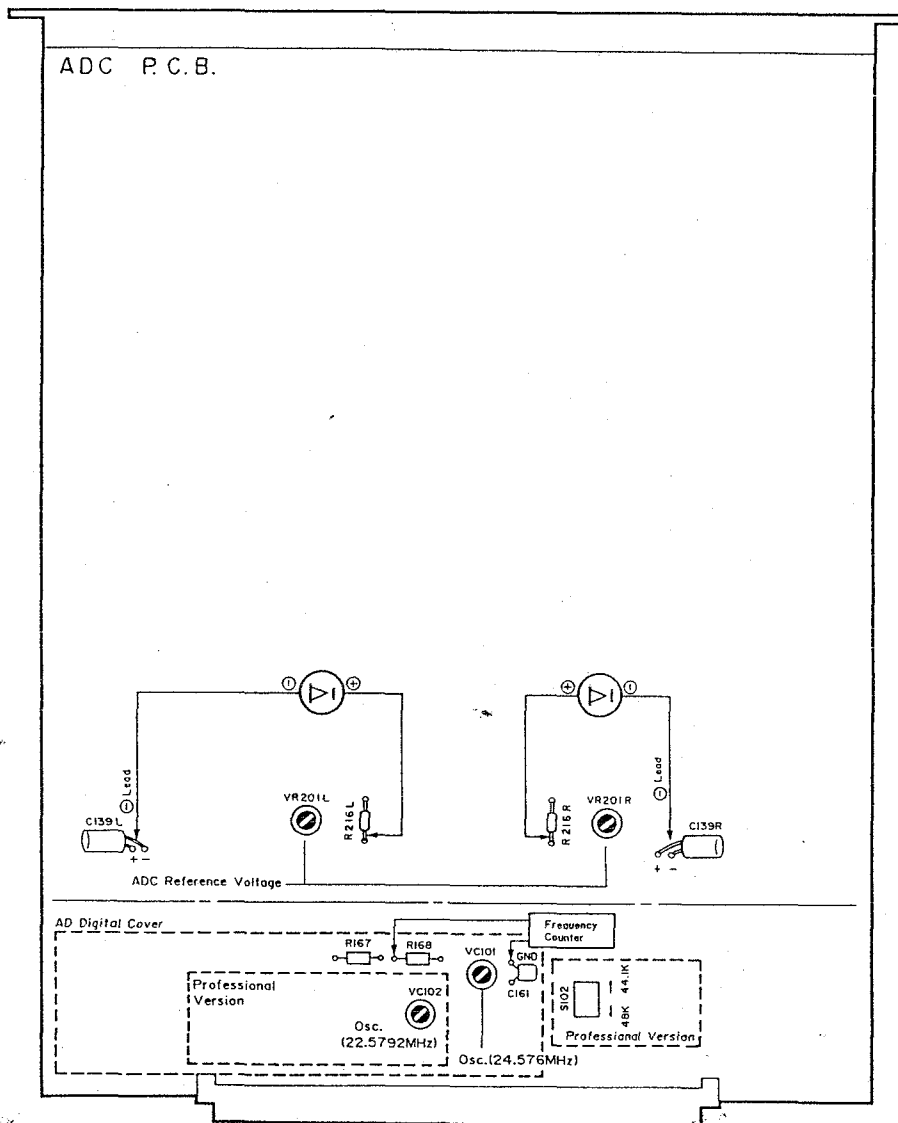


Fig. 3.2 ADC P.C.B. Ass'y

DAIF-C P.C.B.

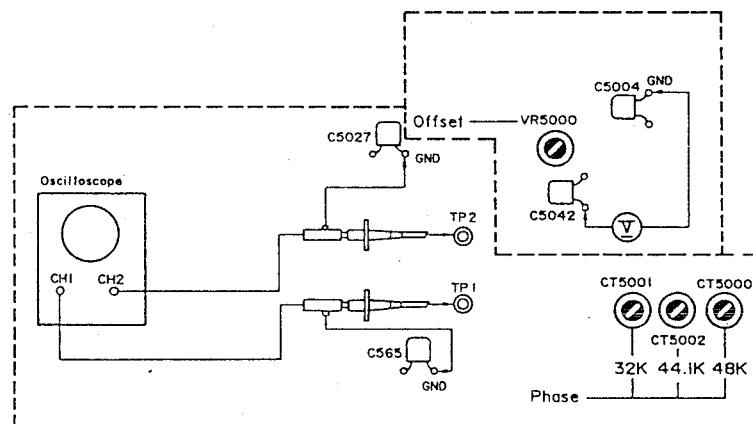


Fig. 3.3 DAIF-C P.C.B. Ass'y

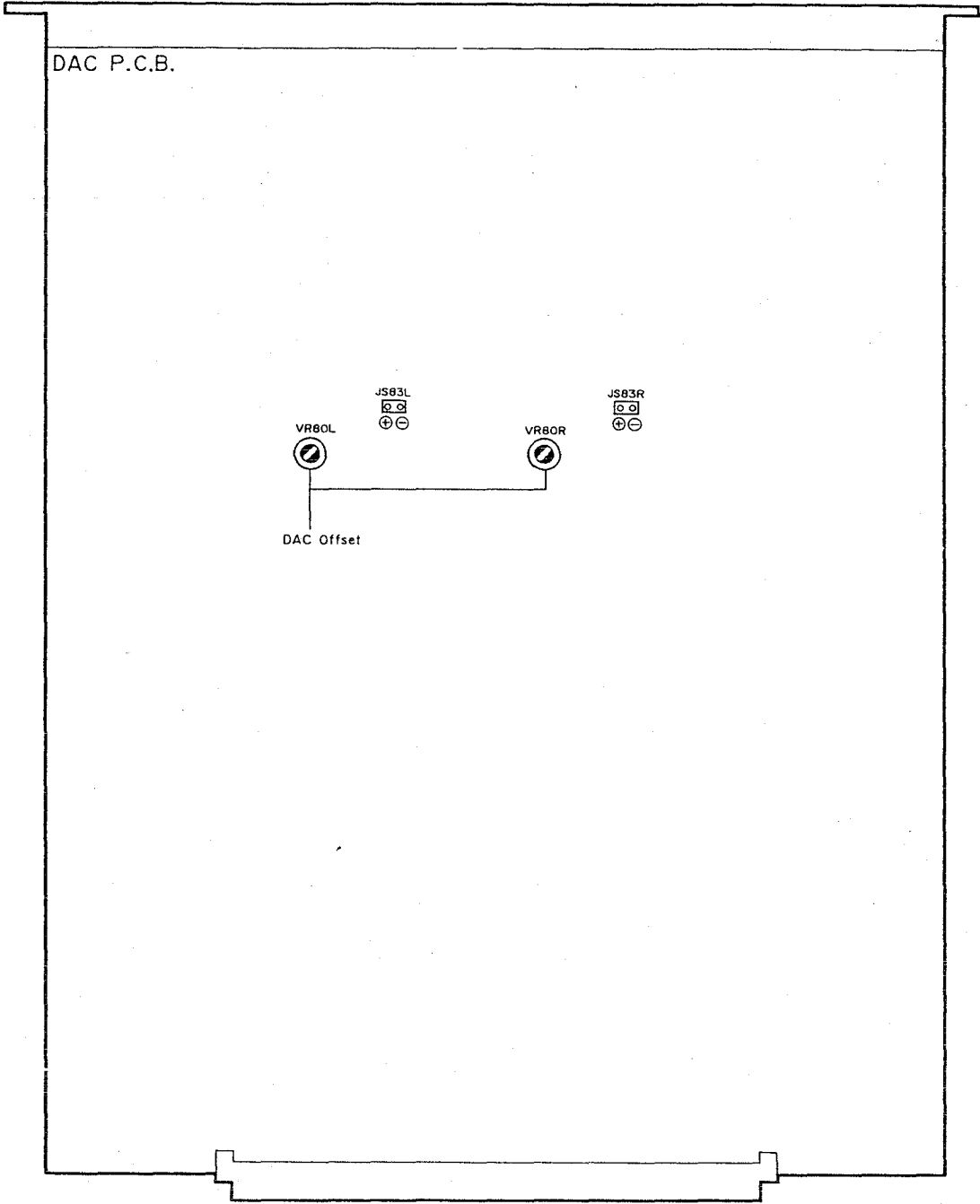
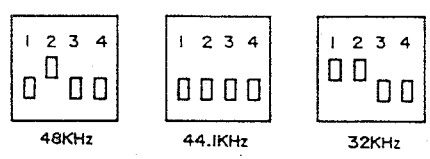
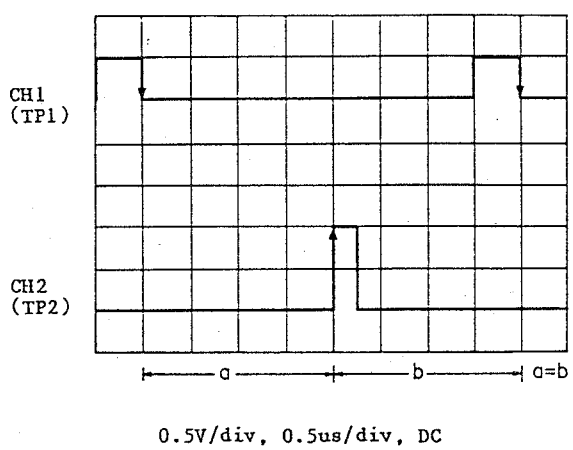


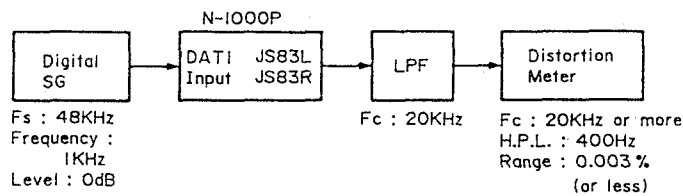
Fig. 3.4 DAC P.C.B. Ass'y

### 3.2. Electrical Adjustments

STEP	ITEM	SIGNAL SOURCE	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS
1	Preliminary Step					Turn on the power and leave the N-1000P for 2 to 3 minutes.
2	ADC Reference Voltage Adjustment (ADC P.C.B.)	None	Connect Digital (DC) Multi-meter as shown in Fig. 3.2. (ADC P.C.B.)		ADC P.C.B. VR201L VR201R	1. Adjust VR201L to obtain 4.5 V $\pm$ 0.05 V. 2. Adjust VR201R to obtain 4.5 V $\pm$ 0.05 V.
3	Oscillation Frequency Adjustment (ADC P.C.B.)	None	Frequency Counter between the intersection of R168 and R167, and GND (C161) on ADC P.C.B.		ADC P.C.B. VC101 VC102	Note: Before adjusting, remove the AD Digital Cover. Consumer Version: 1. Adjust VC101 to obtain 24.57600 MHz $\pm$ 100 Hz. Professional Version: 1. Set the switch S102 on the ADC P.C.B. to 48 kHz. 2. Adjust VC101 to obtain 24.57600 MHz $\pm$ 100 Hz. 3. Set the switch S102 on the ADC P.C.B. to 44.1 kHz. 4. Adjust VC102 to obtain 22.57920 MHz $\pm$ 100 Hz.
4	Offset Adjustment (DAIF-C P.C.B.)	None	Digital (DC) Multi-meter between C5042 and GND (C5004) on DAIF-C P.C.B.		DAIF-C P.C.B. VR5000	1. Adjust VR5000 to obtain 3.50 V.
5	Phase Adjustment (DAIF-C P.C.B.)	Digital SG Output to "DAT1 Input Optical or Coaxial"	Oscilloscope CH1: TP1 and GND (C565) CH2: TP2 and GND (C5027) on DAIF-C P.C.B.	Monitor Selector - DAT1 Source Selector - Digital DAT1 Digital Input Selector (Rear Panel) - Optical or Coaxial	DAIF-C P.C.B. CT5000 (48K) CT5001 (32K) CT5002 (44.1K)	1. Set the Digital SG as follows: Fs: 48 kHz/32 kHz/44.1 kHz Offset: 0% Optical or Coaxial Output: -18 dBm 2. Adjust the variable control of the oscilloscope so that one cycle ranges over 8 divisions on CH1 as shown left. 3. Adjust CT5000 for Fs48 kHz (CT5001 for Fs32 kHz and CT5002 for Fs44.1 kHz) so that the pulse on CH2 is positioned as shown left. 4. Set the offset of the digital SG to $\pm$ 0.1% and make sure lock is securely made, i.e., sound is heard continuously without fail while listening with headphones. Example: Digital SG Fs setting (Fs Code)



STEP	ITEM	SIGNAL SOURCE	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS
6	DAC Offset Adjustment	Digital SG Output to "DAT1 Input Optical or Coaxial"	Distortion Meter to JS83L, JS83R via LPF (See below)	Monitor Selector - DAT1 Source Selector - Digital DAT1 Digital Input Selector (Rear Panel) - Optical or Coaxial	DAC P.C.B. VR80L VR80R	1. Set the Digital SG as follows: Fs: 48 kHz Frequency: 1 kHz Level: 0 dB 2. Adjust VR80L (VR80R) to obtain minimum distortion.



### 3.3. How to Use Extension Card

The ADC P.C.B. Ass'y, DAC P.C.B. Ass'y, and DAIF-C P.C.B. Ass'y can draw by connecting an Extension Card as shown below. This Extension Card can be used for the Nakamichi 1000 Digital Audio Processor as well.

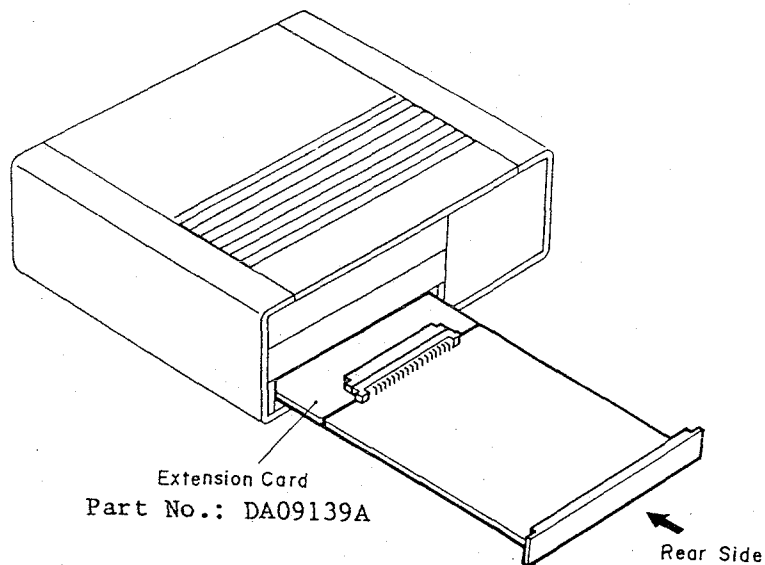


Fig. 3.5 How to Use Extension Card

## 4. MECHANISM ASS'Y AND PARTS LIST

### 4.1. Synthesis

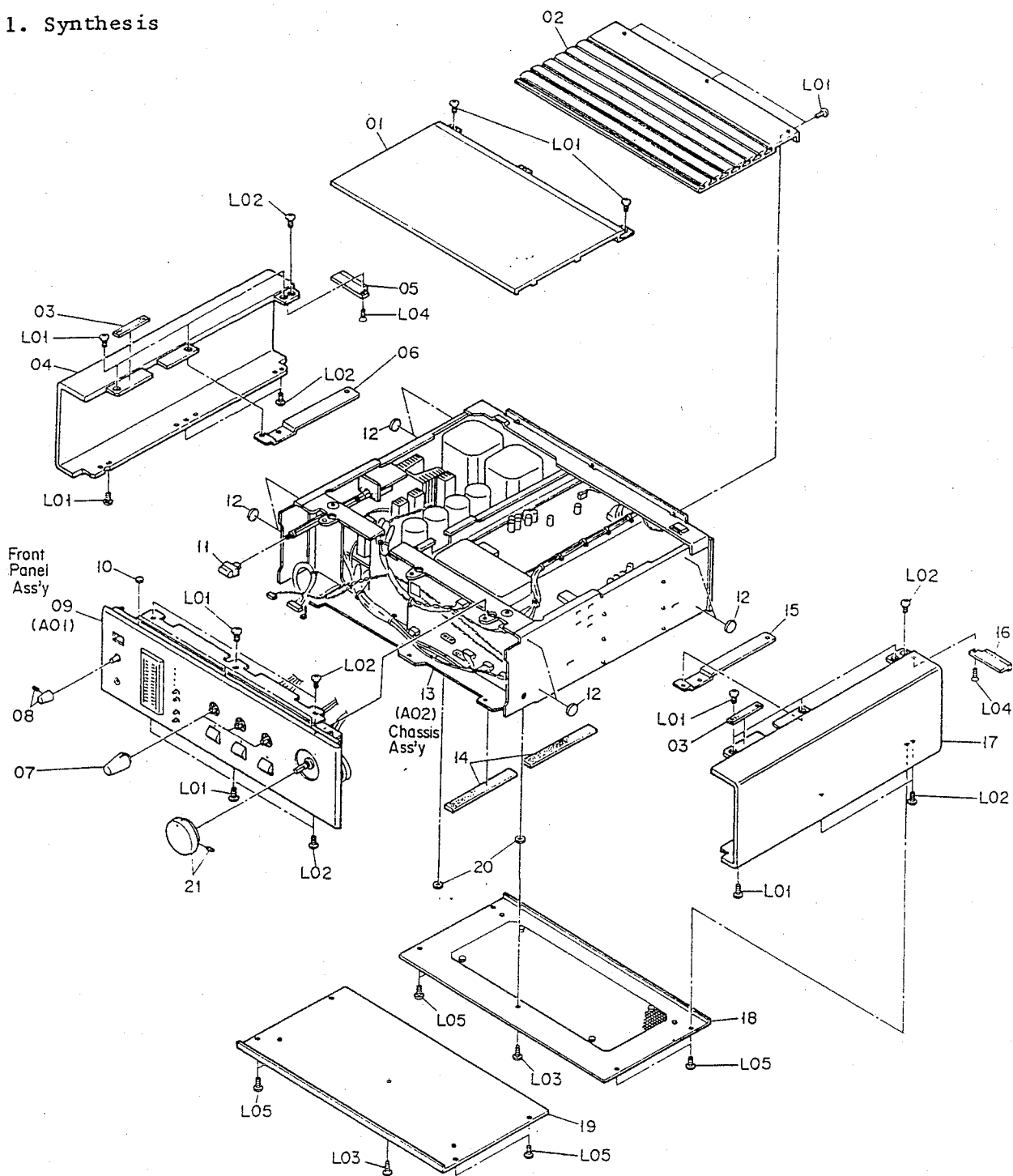


Fig. 4.1

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u> <u>Synthesis</u>	<u>Q'ty</u>
01	HA05594A	Top Cover Front Ass'y	1
02	HA05595A	Top Cover Rear Ass'y	1
03	OJ05905A	Top Cover Cushion C	2
04	OH05452B	Side Panel Left [N-1000P]	1
	OH05567B	Side Panel Left [N-1000P Pro.]	1
05	OH05541B	Rear Plate Left	1
06	OJ05773C	Top Cover Holder L	1
07	HA05585A	Level Knob Ass'y	3
08	HA05708A	Phone Knob Ass'y	1
09	HA05569A	Front Panel Ass'y	1
10	OJ05938A	Top Spacer	3
11	HA05586A	Power Button Ass'y	1
12	OJ05909A	Side Spacer	8
13	-	Chassis Ass'y	1
14	OJ05907B	Bottom Cover Cushion	2
15	OJ05772C	Top Cover Holder R	1
16	OH05478B	Rear Plate Right	1
17	OH05453B	Side Panel Right [N-1000P]	1
	OH05566B	Side Panel Right [N-1000P Pro.]	1
18	HA05596A	Bottom Cover Rear Ass'y [N-1000P]	1
	HA05700A	Bottom Cover Rear Ass'y [N-1000P Pro.]	1
19	HA05617A	Bottom Cover Front Ass'y [N-1000P]	1
	HA05701A	Bottom Cover Front Ass'y [N-1000P Pro.]	1
20	OJ05965A	Bottom Spacer	2
21	HA05584A	Master Volume Knob Ass'y	1
L01	OE03536A	M3x5 + Binding Projected	
L02	OE03522A	M3x5 + Binding	
L03	OE03526A	BT3x6 + Binding	
L04	OE00076A	M2.6x4 + Countersunk	
L05	OE03551A	M3x8 + Binding Projected	
-	OE03538A	M4x6 + Countersunk [N-1000P Pro.]	

4.2. Front Panel Ass'y (A01)

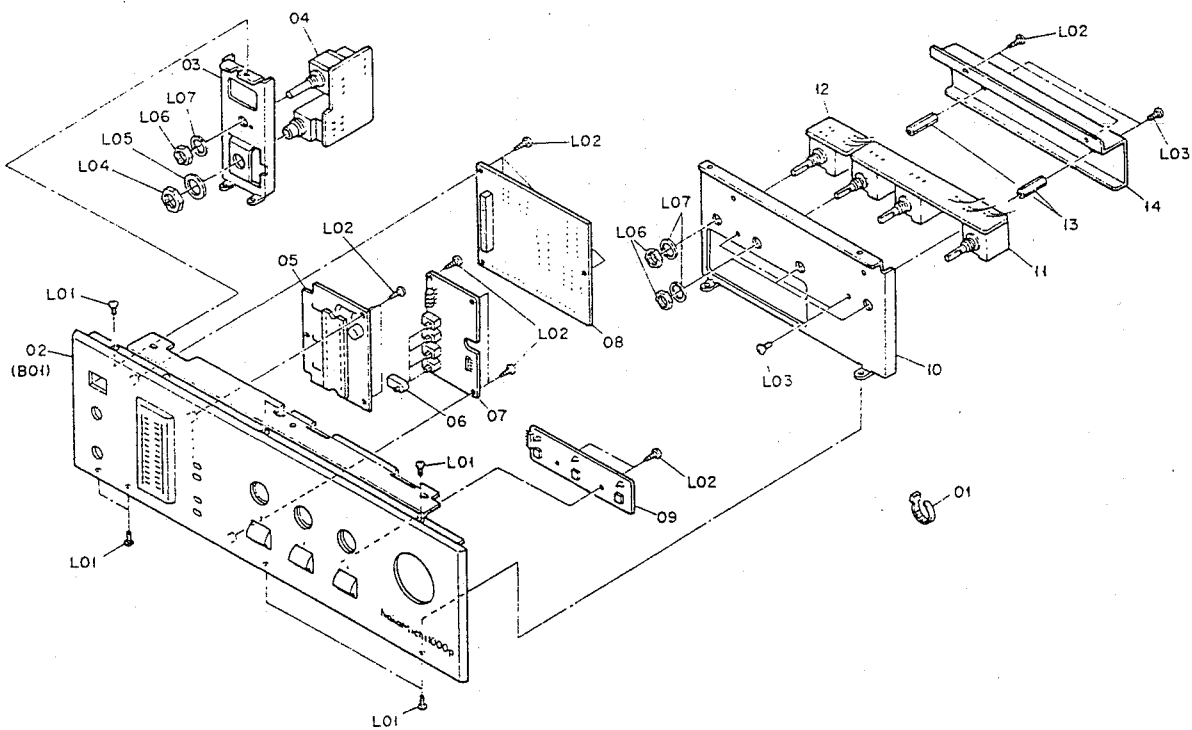


Fig. 4.2



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Q'ty</u>
A01	HA05569A	Front Panel Ass'y	1
01	OB90019A	SK Binder	5
02	HA05620A	Front Panel Sub Ass'y	1
03	OJ05774A	Headphone Holder	1
04	BA07463B	Headphone P.C.B. Ass'y	1
05	BA07468B	Display P.C.B. Ass'y	1
06	HA05597A	Slide Switch Knob Ass'y	4
07	BA07467B	Function Switch P.C.B. Ass'y	1
08	BA07469B	CPU P.C.B. Ass'y	1
09	BA07466B	Monitor Switch P.C.B. Ass'y	1
10	OJ05775B	Volume Holder	1
11	BA07561B	Input Volume P.C.B. Ass'y	1
12	BA07560B	Output Volume P.C.B. Ass'y	1
13	OJ05848A	Stud 30mm	2
14	OJ05836A	Volume Shield Cover	1
L01	OE00184A	M2.6x6 + Countersunk	
L02	OE00868A	BT3x8 + Binding	
L03	OE00896A	M3x6 + Binding	
L04	OE03524A	Nut Hex. M12	
L05	OE03525A	Washer M12	
L06	OE03375A	Nut Hex. M9	
L07	OE03376A	Washer M9	
-	OB83578B	9P H Connector Ass'y 370 (CN104)	1
-	OB83579B	10P H Connector Ass'y 350 (CN105)	1
-	OB83582B	8P H Connector Ass'y 80 (CN106)	1
-	OB83580B	12P H Connector Ass'y 330 (CN107)	1
-	OB83581B	11P H Connector Ass'y 390 (CN108)	1
-	OB83583A	4P H Connector Ass'y 60 (CN129) [1st Version]	1
-	OB83764A	5P H Connector Ass'y 60 (CN129) [2nd Version]	1

### 4.3. Chassis Ass'y (A02)

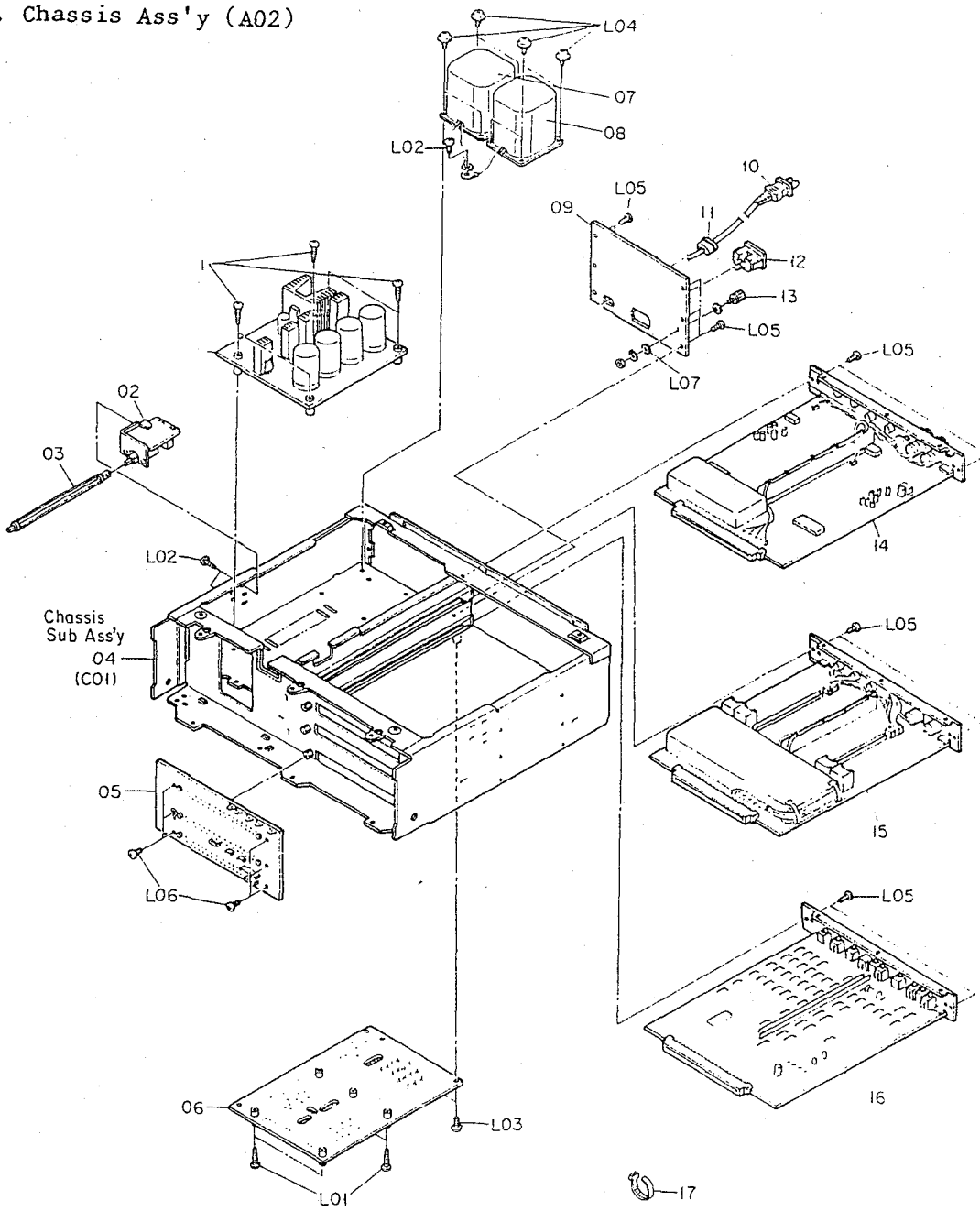
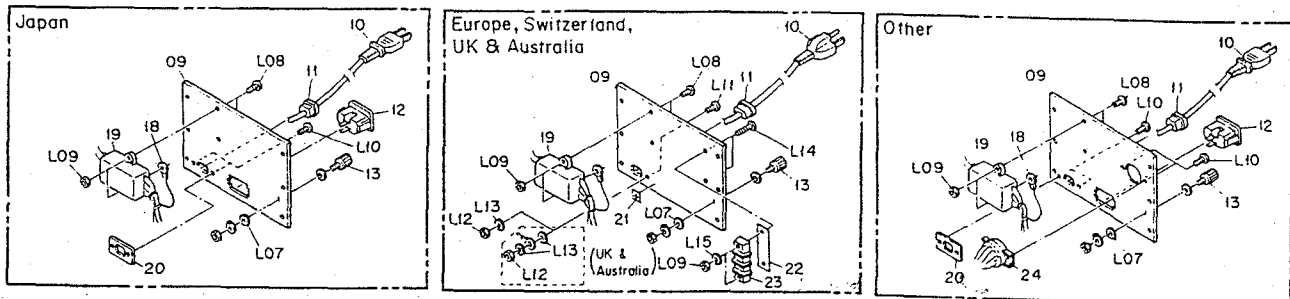


Fig. 4.3



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Q'ty</u>
A02	-	Chassis Ass'y	1
01	BA07460B	Analog Power Supply P.C.B. Ass'y	1
02	BA07462B	Power Switch P.C.B. Ass'y (USA, CAN)	1
	BA07570B	Power Switch P.C.B. Ass'y (JPN)	1
	BA07575B	Power Switch P.C.B. Ass'y (UK, OTR, AUS, EP, SWT)	1
03	OJ05781A	Power Switch Joint	1
04	-	Chassis Sub Ass'y	1
05	BA07464B	Mother P.C.B. Ass'y	1
06	BA07461B	Digital Power Supply P.C.B. Ass'y (JPN, USA, CAN)	1
	BA07618B	Digital Power Supply P.C.B. Ass'y (UK, OTR, AUS, EP, SWT)	1
07	OB50148B	Power Transformer For Digital (USA, CAN)	1
	OB50149A	Power Transformer For Digital (JPN)	1
	OB50150A	Power Transformer For Digital (UK, AUS, EP, SWT)	1
	OB50151A	Power Transformer For Digital (OTR)	1
08	OB50144B	Power Transformer For Analog (USA, CAN)	1
	OB50145A	Power Transformer For Analog (JPN)	1
	OB50146A	Power Transformer For Analog (UK, AUS, EP, SWT)	1
	OB50147A	Power Transformer For Analog (OTR)	1
09	OH05494C	Rear Panel UL (USA, CAN)	1
	OH05522D	Rear Panel (OTR)	1
	OH05544D	Rear Panel (JPN)	1
	OH05546D	Rear Panel (EP, SWT)	1
	OH05556D	Rear Panel SA (UK, AUS)	1
10	OB80124A	Power Cord (EP)	1
	OB80132B	Power Cord (SWT)	1
	OB80085A	Power Cord (OFC) (JPN, OTR)	1
	OB80131A	Power Cord (OFC) (USA, CAN)	1
	OB80133B	Power Cord (AUS)	1
	OB80134B	Power Cord (UK)	1
11	OB90157A	Cord Bushing (SR-6N-4) (UK, AUS, EP, SWT, USA, CAN)	1
	OB90186A	Cord Bushing (SR-33-1) (JPN, OTR)	1
12	OB81597A	AC Outlet 2P (USA, CAN)	1
	OB84102A	AC Outlet 2P (AC-T06SB10) (JPN, OTR)	1
13	OB81685A	Earth Terminal T5435	1
14	HA05754A	ADC P.C.B. Ass'y [N-1000P]	1
	HA05756A	ADC P.C.B. Ass'y [N-1000P Pro.] (UK, OTR, AUS, EP, SWT)	1
	HA05755A	ADC P.C.B. Ass'y [N-1000P Pro.] (JPN, USA, CAN)	1
15	HA05757A	DAC P.C.B. Ass'y [N-1000P]	1
	HA05759A	DAC P.C.B. Ass'y [N-1000P Pro.] (UK, OTR, AUS, EP, SWT)	1
	HA05758A	DAC P.C.B. Ass'y [N-1000P Pro.] (JPN, USA, CAN)	1
16	HA05568A	DAIF-C P.C.B. Ass'y [N-1000P]	1
	HA05718A	DAIF-C P.C.B. Ass'y [N-1000P Pro.]	1
17	OB90019A	Insu-Lock	60
18	OB83607A	GND Ass'y (JPN, OTR)	1
19	BA07697A	Noise Filter P.C.B. Ass'y (UK, AUS, EP, SWT, JPN, OTR)	1
20	OJ05939A	Bushing Plate (JPN, OTR)	1
21	OM03700A	Earth Mark Label (AUS, SWT)	1
22	OJ05694A	Insulator A (UK, AUS, EP, SWT)	1
23	OB81937A	Terminal (UK, AUS, EP, SWT)	1
24	OB70049A	Voltage Selector (OTR)	1
L01	OE03136A	BT3x16 + Binding	
L02	OE00857A	BT3x6 + Binding	
L03	OE00992A	M3x4 + Binding	
L04	OE03032A	BT4x8 + Pan Washer Faced (Black Chromate)	

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Q'ty</u>
L05	OE03522A	M3x5 + Binding	
L06	OE00896A	M3x6 + Binding	
L07	OE03537A	Washer 6mm Toothed Lock	
L08	OE03517A	M3x5 + Binding (UK, AUS, EP, SWT, JPN, OTR)	
L09	OE00718A	Nut Hex. M3 (UK, AUS, EP, SWT, JPN, OTR)	
L10	OE03519A	M3x6 + Binding (JPN, OTR)	
L11	OE03547A	M4x6 + Binding (UK, AUS, EP, SWT)	
L12	OE00506A	Nut Hex. M4 (UK, AUS, EP, SWT)	
L13	OE00078A	Washer 4mm Toothed Lock (UK, AUS, EP, SWT)	
L14	OE03546A	M3x14 + Binding (UK, AUS, EP, SWT)	
L15	OE00172A	Washer 3mm Toothed Lock (UK, AUS, EP, SWT)	
-	OJ05940A	Insulator Sheet	1
-	OB83602B	3P/4P H Connecotr Ass'y (CN117)	1
-	OB83603A	3P/4P H Connecotr Ass'y (CN118)	1
-	OB83592B	4P H Connecotr Ass'y (CN119)	1
-	OB83593B	6P H Connector Ass'y (CN120)	1
-	OB83594B	4P H Connector Ass'y (CN121)	1
-	OB83595B	2P H Connector Ass'y (CN122)	1
-	OB83600B	4P H Connector Ass'y (CN123)	1
-	OB83601B	8P H Connector Ass'y (CN124)	1
-	OB83597B	2P H Connector Ass'y (CN125)	1
-	OB83598B	2P H Connector Ass'y (CN126)	1
-	OB83596B	3P H Connector Ass'y (CN130)	1
-	OB83604A	4P H Connector Ass'y (CN131)	1
-	OB83605B	3P H Connector Ass'y (CN132)	1
-	OB83656B	3P H Connector Ass'y (CN401)	1
-	OB83655B	3P H Connector Ass'y (CN403)	1
-	OJ05942A	AC Outlet Spacer (USA, CAN)	1

4.4. Front Panel Sub Ass'y (B01)

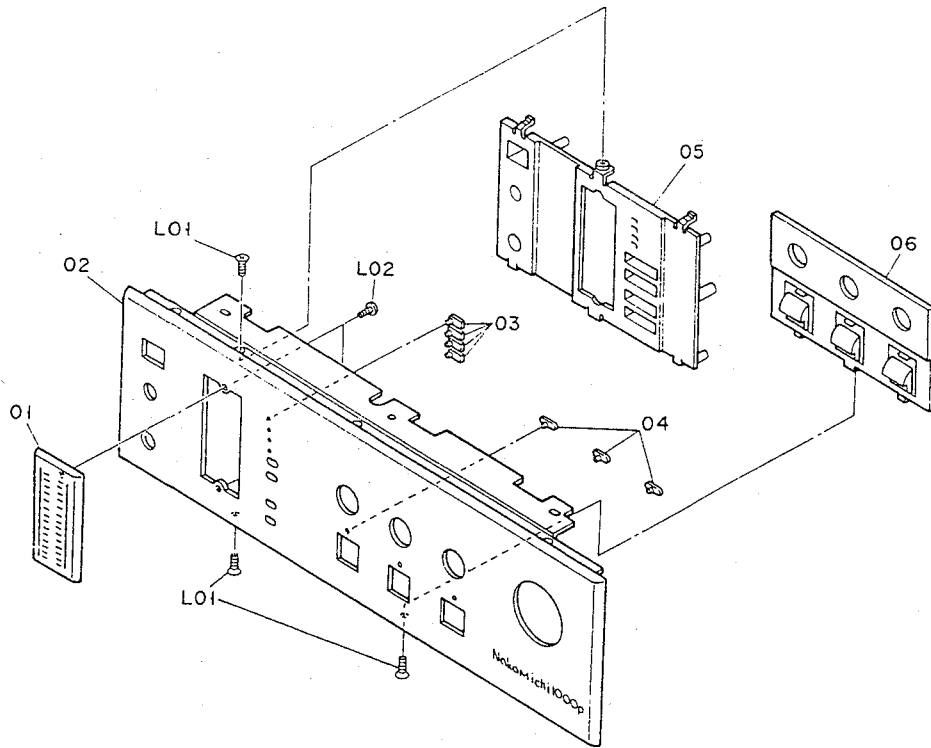


Fig. 4.4

Ref. No.	Part No.	Description	Q'ty
B01	HA05620A	Front Panel Sub Ass'y	1
01	HA05605A	Meter Panel Ass'y	1
02	OH05451D	Front Panel	1
03	OH05488A	LED Lens B	4
04	OH05487A	LED Lens A	3
05	OJ05761A	Meter Escutcheon	1
06	HA05606A	Selector Escutcheon Ass'y	1
L01	OE03473A	BT2. 6x6 + Countersunk	
L02	OE00866A	M2. 6x4 + Binding	

#### 4.5. Chassis Sub Ass'y (C01)

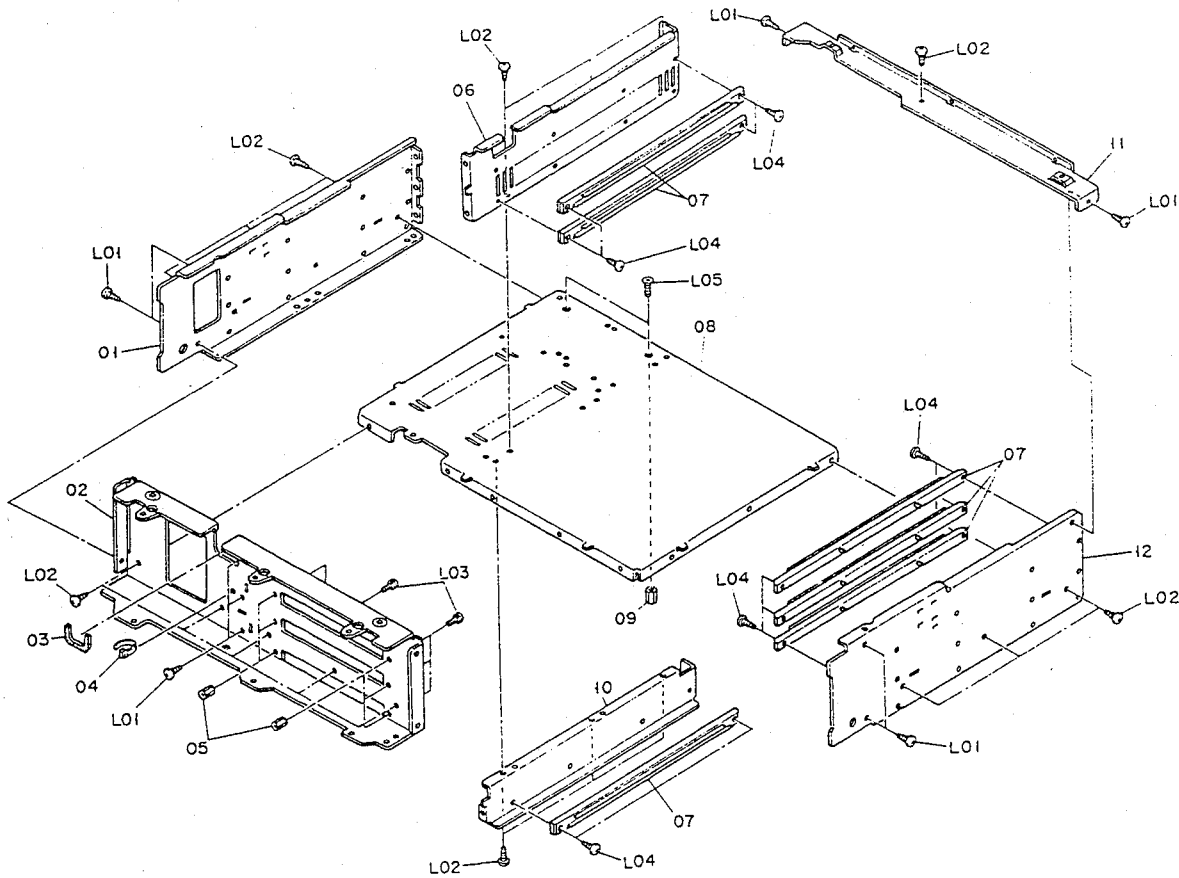


Fig. 4.5

Ref. No.	Part No.	Description	Q'ty
C01	-	Chassis Sub Ass'y	1
01	0J05766A	Side Chassis Left	1
02	0J05764C	Front Chassis	1
03	0B90417A	Free Bushing 82mm (KG-016L)	1
04	0B90398A	Insu-Lock (PLP-1.5I)	1
05	0J05793A	Stud 8.5mm	6
06	0J05768C	Center Chassis Upper	1
07	0J05776A	Card Rail	6
08	0J05832B	Main Chassis	1
09	0J05851A	Stud 7.5mm	2
10	0J05769D	Center Chassis Lower	1
11	0J05770A	Rear Angle	1
12	0J05767C	Side Chassis Right	1
L01	0E03515A	BT3x8 + Binding (Copper)	
L02	0E03366A	BT3x8 + Binding	
L03	0E00612A	M3x6 + Pan (2A)	
L04	0E00857A	BT3x6 + Binding	
L05	0E00505A	M3x6 + Countersunk	

5. MAIN IC BLOCK DIAGRAMS

(1) CXD1146Q DAIF (Digital Audio Interface)  
U524 on DAIF-C P.C.B. Ass'y

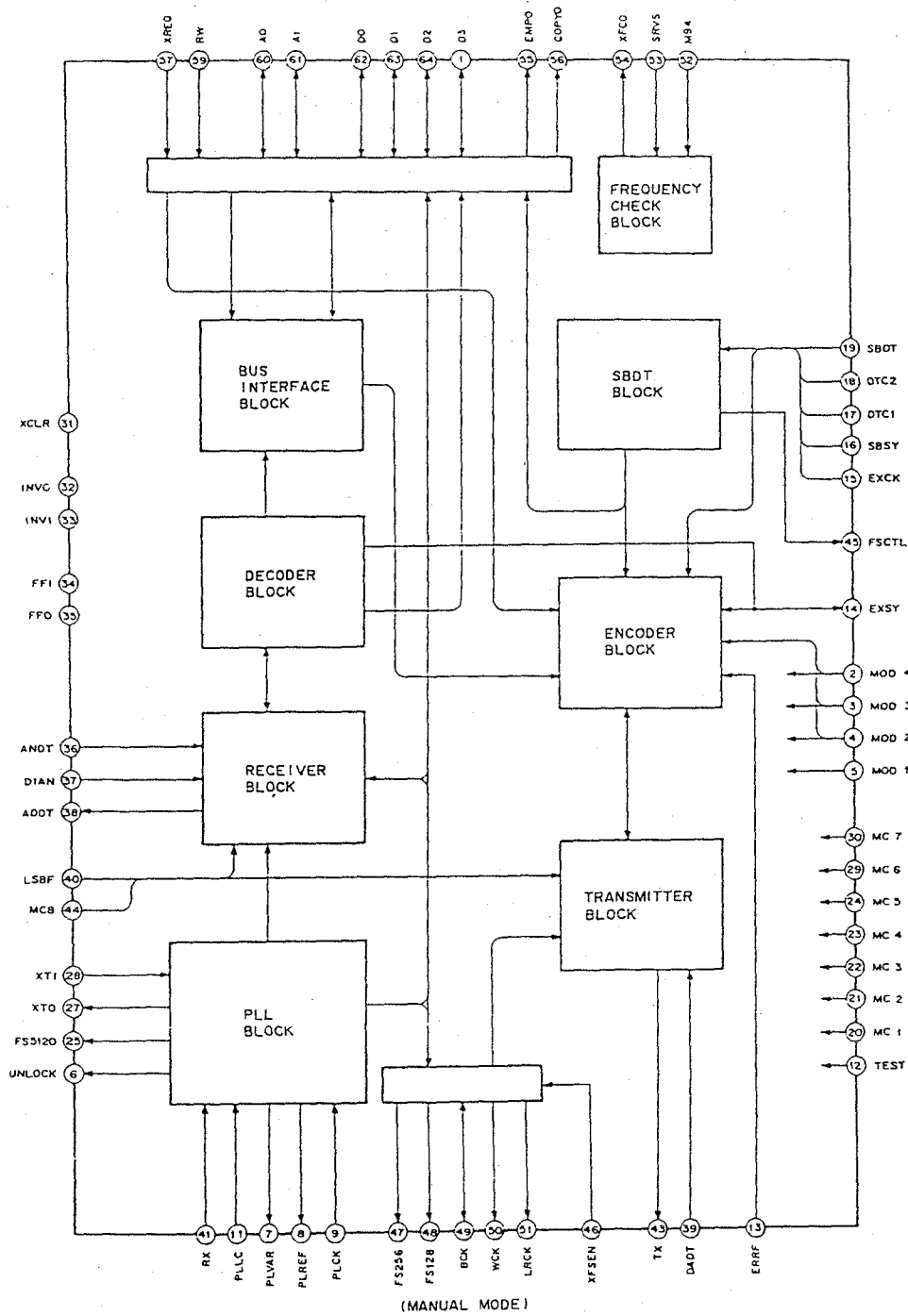


Fig. 5.1

(2) CXD1211P Digital Audio Data Transmitter  
 U514 on DAIF-C P.C.B. Ass'y

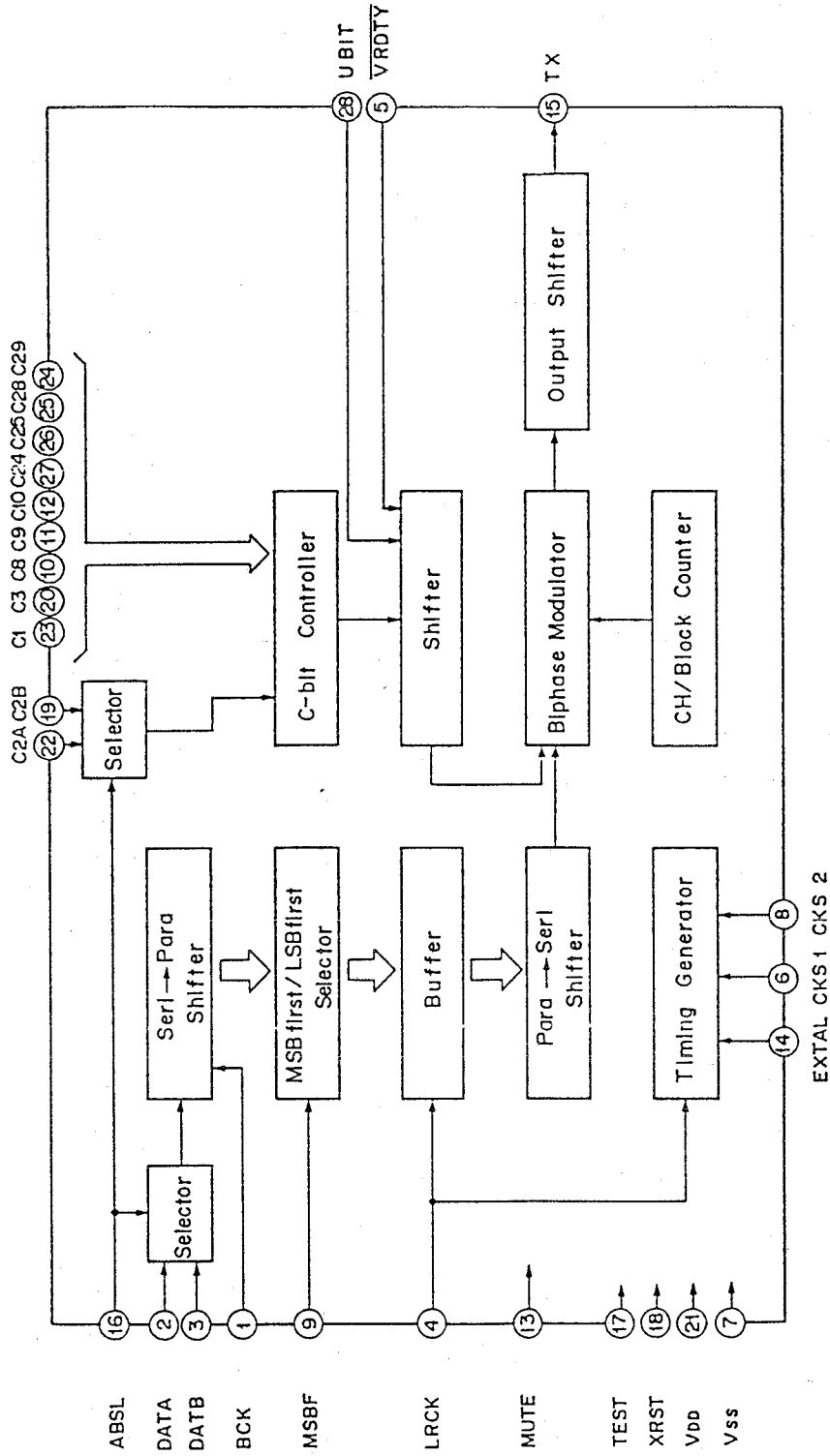


Fig. 5.2



(3) CX23065 Phase Compator (PLL)  
U531 on DAIF-C P.C.B. Ass'y

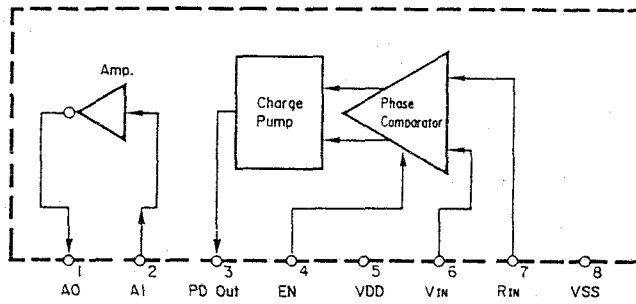


Fig. 5.3

(4) SM5803 8-Times Oversampling Digital Filter  
U801 on DAC P.C.B. Ass'y

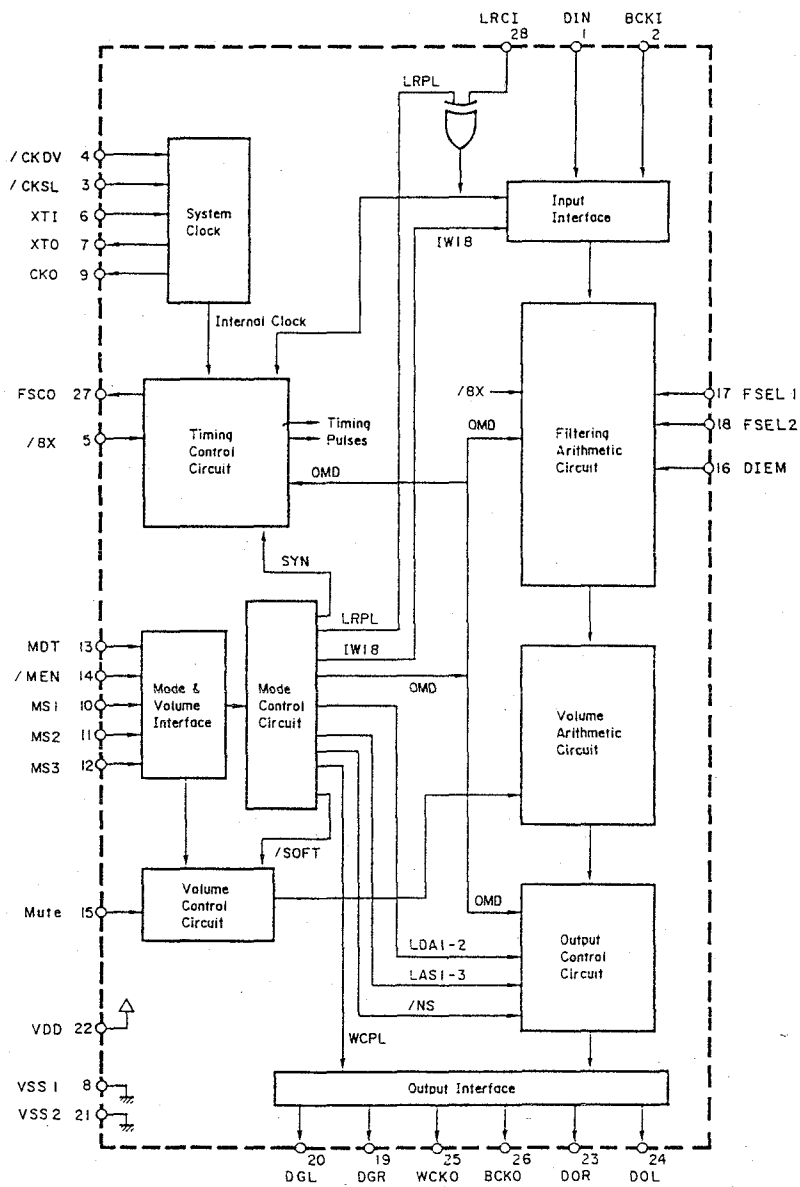


Fig. 5.4

(5) TDA1541S1 D/A Converter  
 U880L and U880R on DAC P.C.B. Ass'y

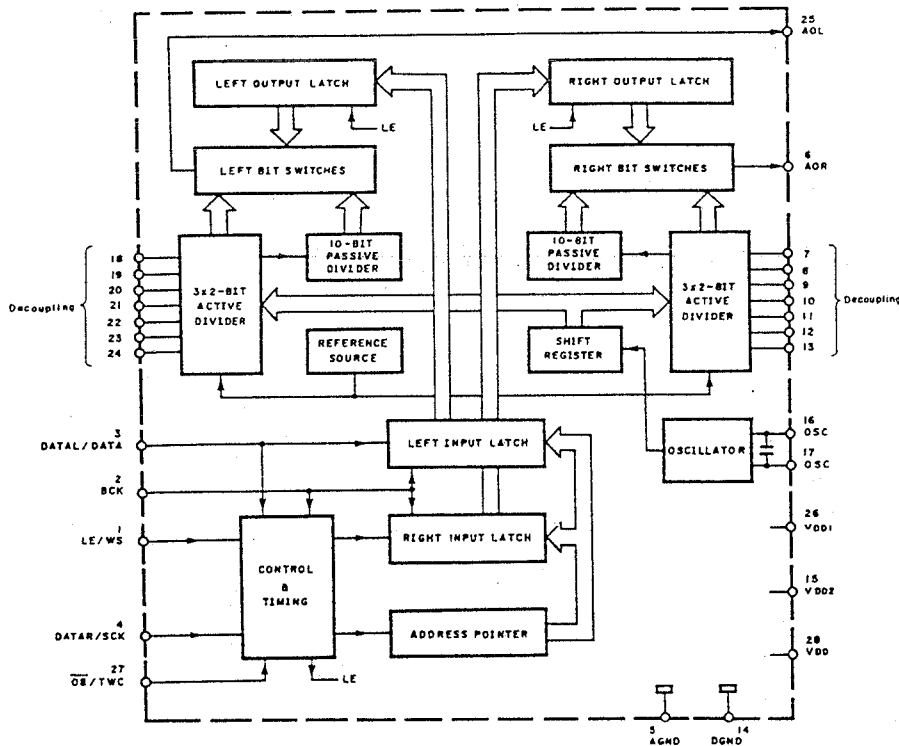


Fig. 5.5

(6) AK9201 A/D Converter  
 U105L and U105R on ADC P.C.B. Ass'y

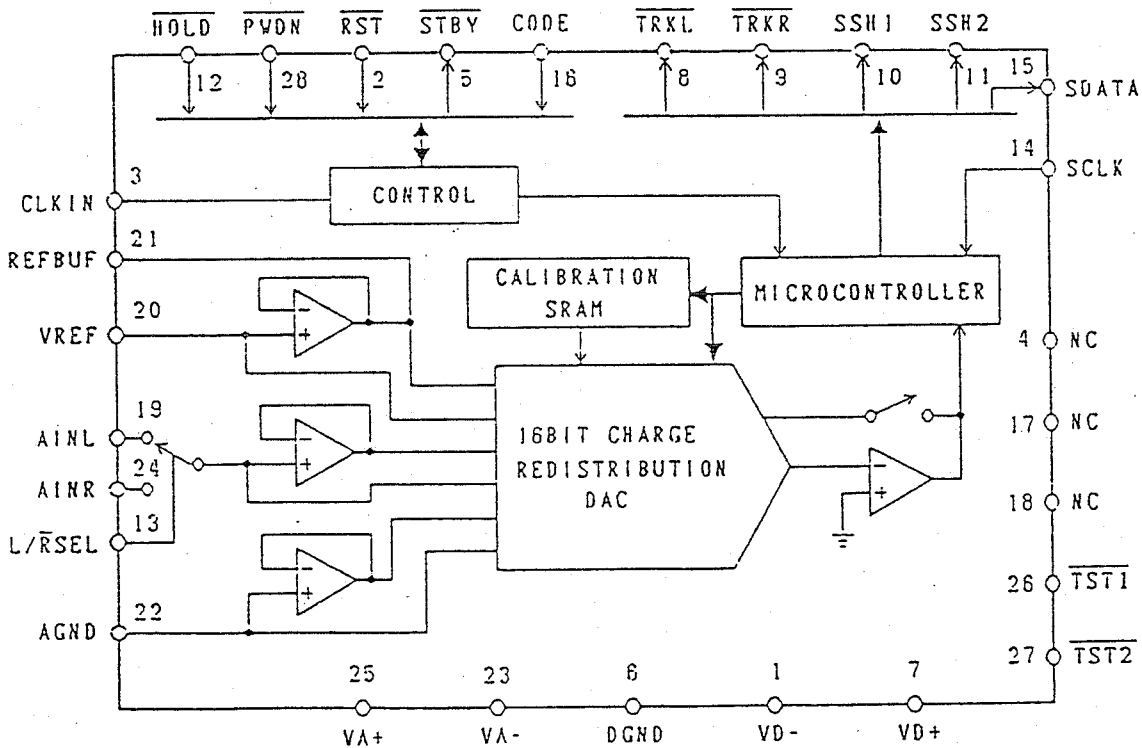


Fig. 5.6

(7) SM5805 Digital Filter (for Digital Audio Recording and Playback)  
U113 on ADC P.C.B. Ass'y

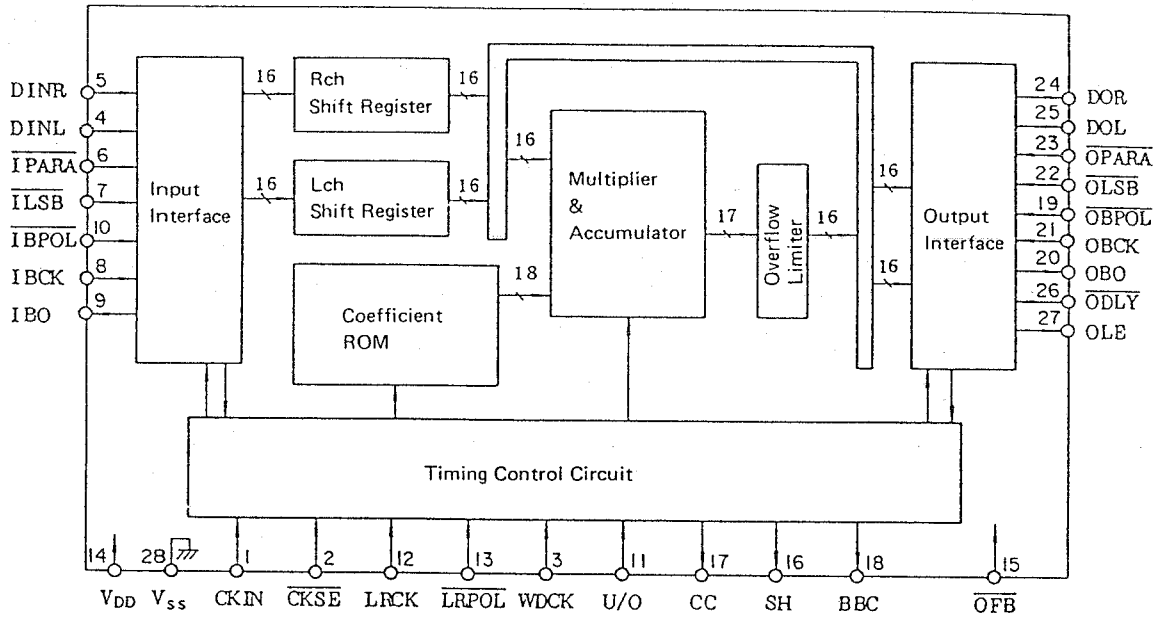


Fig. 5.7

(8) LS624 Voltage-Controlled Oscillator  
U532 on DAIF-C P.C.B. Ass'y

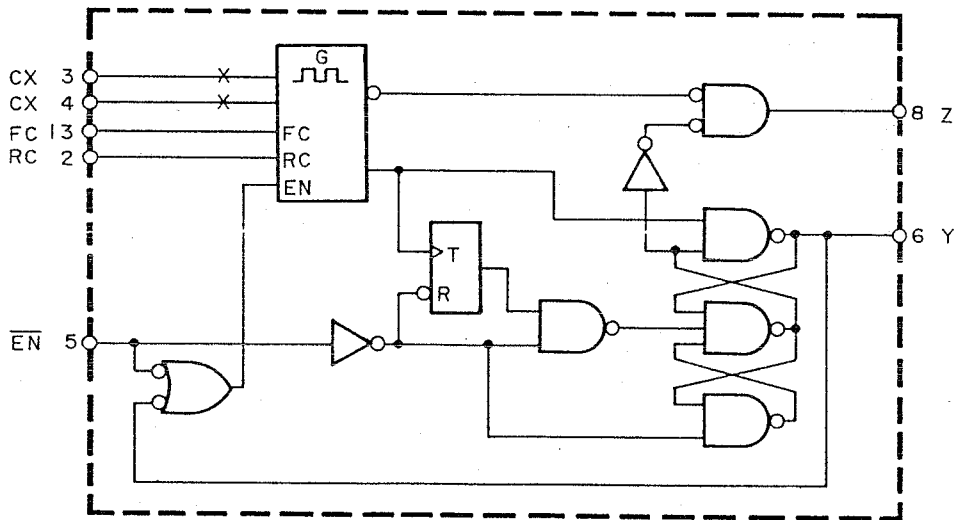


Fig. 5.8

6. BLOCK DIAGRAM

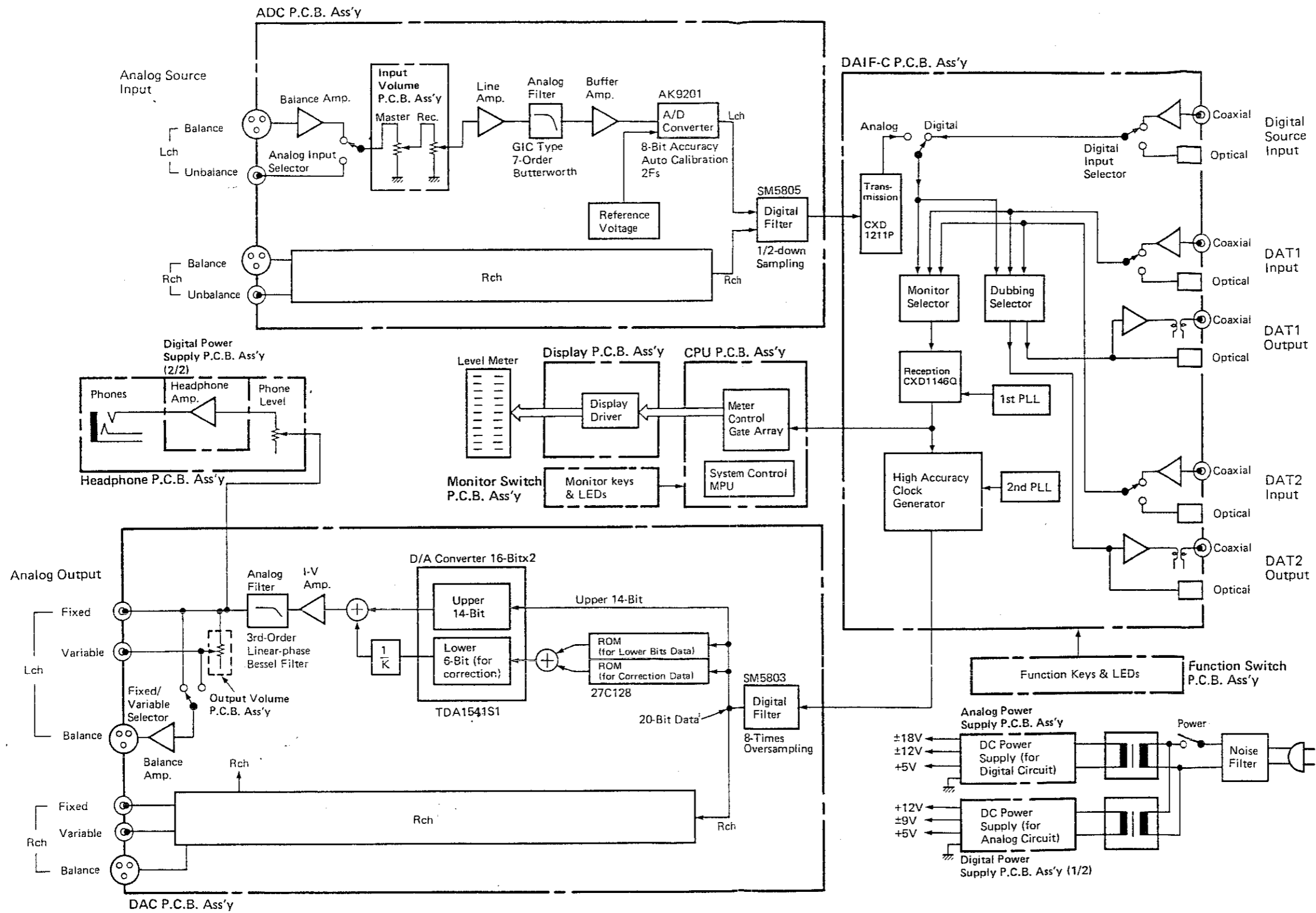


Fig. 6

## 7. ELECTRICAL PARTS LIST

Abbreviation for part name:

TR - Transistor, SID - Silicon Diode, ZD - Zener Diode, Varicap - Variable Capacitance Diode  
 RK - Carbon Resistor, RM - Metal Film Resistor, RF - Fail Safe Type Resistor, RC - Cement Resistor  
 CE - Electrolytic Capacitor, CML - Mylar Capacitor, CC - Ceramic Capacitor, CPP - PP Capacitor,  
 CMM - Metalized Mylar Capacitor, CSP - Polystyrene Capacitor, C - Mica Capacitor  
 CT - Tantalum Capacitor

### 7.1. Power Switch P.C.B. Ass'y

Ref. No.	Part No.	Description
	BA07462B	Power Switch P.C.B. Ass'y (USA, CAN)
	BA07570B	Power Switch P.C.B. Ass'y (JPN)
	BA07575B	Power Switch P.C.B. Ass'y (UK, OTR, AUS, EP, SWT)
M401	OB60665B	Power Switch P.C.B.
	OB08342A	Spark Killer ECQ-JC187C (USA, CAN)
M401	OB08363A	Spark Killer (JPN)
M401	OB90255A	Spark Killer (UK, OTR, AUS, EP, SWT)
S401	OB71006A	Power Switch SDLIPB
	OE00868A	3x8 + Binding (1)
	OE00896A	3x6 + Binding (2)
	QJ05833A	Power Switch Holder (1)
	QJ05941A	Power Insulator (1)

### 7.2. Output Volume P.C.B. Ass'y

Ref. No.	Part No.	Description
	BA07560B	Output Volume P.C.B. Ass'y
	OB60690B	Output Volume P.C.B.
VR902	OB30106A	VR 10K(A)x2
CN113	OB83588B	4P-H Connector Ass'y 300
CN115	OB83590B	4P-H Connector Ass'y 300

### 7.3. Input Volume P.C.B. Ass'y

Ref. No.	Part No.	Description
	BA07561B	Input Volume P.C.B. Ass'y
	OB60668B	Input Volume P.C.B.
VR903, 904	OB30105A	VR 50K(A)
VR905	OB30107A	VR 50K(A)x2
CN109	OB83584B	4P-H Connector Ass'y 280
CN111	OB83586B	4P-H Connector Ass'y 280

### 7.4. Monitor Switch P.C.B. Ass'y

Ref. No.	Part No.	Description
	BA07466B	Monitor Switch P.C.B. Ass'y
	OB60669B	Monitor Switch P.C.B.
ED701, 702	OB12641A	LED Umber
ED703	OB12641A	LED Umber
R709, 710	OB09661A	RK 220 1/6W J
R711	OB09661A	RK 220 1/6W J
S702, 703	OB70043A	Tact Switch
S704	OB70043A	Tact Switch
CN106	OB81042A	8P S-Post White

### 7.5. Headphone P.C.B. Ass'y

Ref. No.	Part No.	Description
	BA07463B	Headphone P.C.B. Ass'y
	OB60666B	Headphone P.C.B.
	OB10060A	TR DTA143ES
	OB10078A	TR 2SC2240 (GR)
	D901	OB06398A SID 1SS176
	VR901	OB30103A VR 50K(A)x2
	R901, 902	OB09701A RK 10K 1/6W J
	RY901	OB90361A Relay DC12V AG2323
	PJ901	OB84011A Phone Jack
	CN123	OB84031A 4P S-Post Red
	CN124	OB84032A 8P S-Post Red
	CN125	OB81036A 2P S-Post White
	CN126	OB84033A 2P S-Post Red

### 7.6. Analog Power Supply P.C.B. Ass'y

Ref. No.	Part No.	Description
	BA07460B	Analog Power Supply P.C.B. Ass'y
	OB60663C	Analog Power Supply P.C.B.
U401	OB11569A	IC STK90050
Q401	OB10014A	TR 2SA992
Q402	OB06322A	TR 2SC2002 (K, L)
Q403	OB10206A	TR 2SC2167
Q404	OB10275A	TR 2SC1845
Q405	OB06142A	TR 2SC2240 (BL)
Q406	OB10275A	TR 2SC1845
Q407	OB10050A	TR 2SA970 (BL)
Q408	OB10014A	TR 2SA992
Q409	OB06372A	TR 2SA953 (K, L)
Q410	OB10207A	TR 2SA957
Q411	OB10014A	TR 2SA992
Q412	OB06322A	TR 2SC2002 (K, L)
Q413	OB10206A	TR 2SC2167
Q414	OB10275A	TR 2SC1845
Q415	OB06142A	TR 2SC2240 (BL)
Q416	OB10275A	TR 2SC1845
Q417	OB10050A	TR 2SA970 (BL)
Q418	OB10014A	TR 2SA992
Q419	OB06372A	TR 2SA953 (K, L)
Q420	OB10207A	TR 2SA957
Q421	OB10050A	TR 2SA970 (BL)
Q422	OB06322A	TR 2SC2002 (K, L)
Q423	OB10206A	TR 2SC2167
Q424	OB06142A	TR 2SC2240 (BL)
Q425	OB10050A	TR 2SA970 (BL)
Q426	OB06142A	TR 2SC2240 (BL)
Q427	OB06372A	TR 2SA953 (K, L)
Q428	OB10207A	TR 2SA957
Q429, 430	OB10078A	TR 2SC2240 (GR)
Q431	OB06303A	TR 2SB772 (P, Q)
IP401, 402	OB11335A	ICP-N15
IP403, 404	OB11335A	ICP-N15
IP405, 406	OB11335A	ICP-N15
ZD401	OB12147A	ZD 5.1V RD5.1JSB2
ZD402	OB12650A	ZD 1.8V LTZ-MR15
ZD403	OB12147A	ZD 5.1V RD5.1JSB2
ZD404	OB12650A	ZD 1.8V LTZ-MR15
ZD405	OB12147A	ZD 5.1V RD5.1JSB2
ZD406	OB12650A	ZD 1.8V LTZ-MR15
ZD407	OB12147A	ZD 5.1V RD5.1JSB2
ZD408	OB12650A	ZD 1.8V LTZ-MR15
ZD409, 410	OB12177A	ZD 13V RD13JSB2
D401, 402	OB12102A	SID 10DF2
D403, 404	OB12102A	SID 10DF2
D405, 406	OB12634A	Varistor









7.14. DAIF-C P.C.B. Ass'y

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R236L, R	OB09418A	RM 1.58K 1/4W F {N-1000P Pro.}	C208L, R	OB41372A	CML 0.056u 63V J
R237L, R	OB09305A	RM 100K 1/4W F	C209L, R	OB40609A	CE 22u 25V (LN)
R238L, R	OB22567A	RM 100 1/4W F [N-1000P]	C210L, R	OB40609A	CE 22u 25V (LN)
R238L, R	OB05485A	RM 1K 1/4W F [N-1000P Pro.]	C211, 212	OB09937A	C 180P 50V J
R239L, R	OB22719A	RM 464 1/4W F	C214L, R	OB41989A	CSP 100P 50V J
R240L, R	OB22719A	RM 464 1/4W F	C215L, R	OB41989A	CSP 100P 50V J
R241L, R	OB22693A	RM 200 1/4W F	C216L, R	OB41989A	CSP 100P 50V J
R242L, R	OB22693A	RM 200 1/4W F	C217L, R	OB41989A	CSP 100P 50V J
R243L, R	OB09446A	RM 33.2K 1/4W F	C218L, R	OB41539A	C 22P 50V J
R244	OB09829A	RM 3.32K 1/4W F	C219L, R	OB41791A	CSP 1000P 50V J
R245	OB01682A	RK 6.8K 1/4W J	C220L, R	OB40610A	CE 10u 25V (BP)
R246L, R	OB22270A	RM 2.40K 1/4W F	C221L, R	OB41988A	CML 0.22u 63V K
R247L, R	OB22270A	RM 2.40K 1/4W F	C222L, R	OB41988A	CML 0.22u 63V K
VC101	OB42017A	C Trimmer 30P	C223L, R	OB40609A	CE 22u 25V (LN)
VC102	OB42017A	C Trimmer 30P [N-1000P Pro.]	C224L, R	OB40609A	CE 22u 25V (LN)
C101L, R	OB41764A	CPS 100P 100V J	C225	OB01272A	CE 100u 25V
C103L, R	OB41988A	CML 0.22u 63V K	C226	OB41298A	CML 0.1u 50V J
C104L, R	OB41946A	CSP 2200P 50V J	C230, 231	OB41176A	CML 0.22u 63V J
C106L, R	OB40377A	CE 100u 16V (LN)	C232, 233	OB41971A	CC 0.1u 50V Z
C107L, R	OB41539A	C 22P 50V J	C234, 235	OB41971A	CC 0.1u 50V Z
C109L, R	OB41946A	CSP 2200P 50V J	C236	OB41971A	CC 0.1u 50V Z
C111L, R	OB41988A	CML 0.22u 63V K	RY101	OB90361A	Rylay DC12V AG2323
C112L, R	OB40377A	CE 100u 16V (LN)	RY102L, R	OB90361A	Rylay DC12V AG2323
C113L, R	OB41291A	CML 0.027u 50V J	S101	OB70078A	Slide Switch 2-2
C114L, R	OB41274A	CML 1000P 50V J	S102	OB70151A	Toggle Switch [N-1000P Pro.]
C115L, R	OB41476A	CML 0.1u 50V J	CN11L	OB83570A	3P H Connector Ass'y 180
C116L, R	OB40565A	CE 100u 35V (LN)	CN11R	OB83571A	3P H Connector Ass'y 210
C117L, R	OB41990A	CSP 3900P 50V J	CN12L	OB83572A	2P H Connector Ass'y 100
C118L, R	OB41984A	CML 0.1u 63V J	CN12R	OB83573A	2P H Connector Ass'y 100
C119L, R	OB41990A	CSP 3900P 50V J	CN13L	OB83574A	2P H Connector Ass'y 330
C120L, R	OB41984A	CML 0.1u 63V J	CN13R	OB83575A	2P H Connector Ass'y 330
C121L, R	OB41990A	CSP 3900P 50V J	CN14L	OB83576A	2P H Connector Ass'y 280
C122L, R	OB41984A	CML 0.1u 63V J	CN14R	OB83577A	2P H Connector Ass'y 260
C123L, R	OB41990A	CSP 3900P 50V J		OB80219A	Bus Bar A (2)
C124L, R	OB41984A	CML 0.1u 63V J		OJ05838B	IC Cover 28P (2)
C125L, R	OB41990A	CSP 3900P 50V J		OJ05841A	Bus Bar A (1)
C126L, R	OB41984A	CML 0.1u 63V J		OJ05844D	DA. Earth Plate (1)
C127L, R	OB41990A	CSP 3900P 50V J			
C128L, R	OB41984A	CML 0.1u 63V J			
C129L, R	OB41990A	CSP 3900P 50V J			
C131L, R	OB41988A	CML 0.22u 63V K			
C133L, R	OB41985A	CSP 1800P 50V J			
C135L, R	OB41988A	CML 0.22u 63V K			
C137L, R	OB41378A	CML 0.39u 50V J			
C138L, R	OB41378A	CML 0.39u 50V J			
C139L, R	OB40638A	CE 220u 6.3V (LN)			
C140L, R	OB41476A	CML 0.1u 63V J			
C141L, R	OB40638A	CE 220u 6.3V (LN)			
C142L, R	OB41476A	CML 0.1u 63V J			
C143L, R	OB41476A	CML 0.1u 63V J			
C144L, R	OB41476A	CML 0.1u 63V J			
C145L, R	OB41476A	CML 0.1u 63V J			
C146L, R	OB40638A	CE 220u 6.3V (LN)			
C147L, R	OB40638A	CE 220u 6.3V (LN)			
C148L, R	OB40311A	CT 1u 25V			
C149L, R	OB01356A	CC 0.1u 50V Z			
C152	OB41476A	CML 0.1u 50V J			
C153	OB40567A	CE 220u 10V (LN)			
C154	OB41476A	CML 0.1u 63V J			
C155	OB40567A	CE 220u 10V (LN)			
C156	OB40566A	CE 10u 25V (LN)			
C160	OB41552A	C 39P 50V J			
C161	OB41506A	C 20P 50V J			
C162	OB41552A	C 39P 50V J			
C163	OB41506A	C 20P 50V J [N-1000P Pro.]			
C164L, R	OB40635A	CE 1000u 6.3V (LN)			
C165L, R	OB41609A	C 5P 50V D			
C166L, R	OB41609A	C 5P 50V D			
C201L, R	OB40609A	CE 22u 25V (LN)			
C202L, R	OB40609A	CE 22u 25V (LN)			
C203L, R	OB40609A	CE 22u 25V (LN)			
C204L, R	OB40609A	CE 22u 25V (LN)			
C205L, R	OB40609A	CE 22u 25V (LN)			
C206L, R	OB40609A	CE 22u 25V (LN)			
C207L, R	OB41180A	CML 1u 63V J			

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	HA05568A	DAIF-C P.C.B. Ass'y [N-1000P]	R503	OB09701A	RK 10K 1/6W J
	HA05718A	DAIF-C P.C.B. Ass'y [N-1000P Pro.]	R504	OB09701A	RK 10K 1/6W J
		- Main Part -	R505, 506	OB09701A	RK 10K 1/6W J
			R507, 508	OB09701A	RK 10K 1/6W J
			R509	OB09725A	RK 100K 1/6W J
			R510	OB22204A	RM 604 1/6W F
			R511	OB09677A	RK 1.0K 1/6W J
			R512	OB09701A	RK 10K 1/6W J
			R513	OB22204A	RM 604 1/6W F
			R514	OB09677A	RK 1.0K 1/6W J
			R515	OB25164A	RM 475 1/6W F
			R516	OB09701A	RK 10K 1/6W J
			R517	OB09650A	RK 75 1/6W J
			R518	OB09699A	RK 8.2K 1/6W J
				[N-1000P Pro.]	
			R519	OB09685A	RK 2.2K 1/6W J
			R520	OB09717A	RK 47K 1/6W J
			R521	OB09650A	RK 75 1/6W J
			R522	OB09701A	RK 10K 1/6W J
			R523	OB09650A	RK 75 1/6W J
			R524	OB09699A	RK 8.2K 1/6W J
			R525	OB09685A	RK 2.2K 1/6W J
			R526	OB09717A	RK 47K 1/6W J
			R527	OB09650A	RK 75 1/6W J
			R528	OB09701A	RK 10K 1/6W J
			R529	OB09677A	RK 1.0K 1/6W J
			R530	OB09685A	RK 2.2K 1/6W J
			R531	OB09717A	RK 47K 1/6W J
			R532	OB09650A	RK 75 1/6W J
			R533	OB09701A	RK 10K 1/6W J
			R534, 535	OB09677A	RK 1.0K 1/6W J
			R536	OB09707A	RK 18K 1/6W J
			R537	OB09719A	RK 56K 1/6W J
			R538	OB09701A	RK 10K 1/6W J
			R539	OB09691A	RK 3.9K 1/6W J
			R540	OB09681A	RK 1.5K 1/6W J
			R541, 542	OB09651A	RK 82 1/6W J
			R543, 544	OB09651A	RK 82 1/6W J
			R545, 546	OB09651A	RK 82 1/6W J
			R548, 549	OB09651A	RK 82 1/6W J
			R550, 551	OB09651A	RK 82 1/6W J
			R554, 555	OB01679A	RK 100 1/4W J
			R556	OB01679A	RK 100 1/4W J
			R562, 563	OB09701A	RK 10K 1/6W J
			R564	OB09669A	RK 470 1/6W J
			R565	OB09727A	RK 120K 1/6W J
			R5000	OB09707A	RK 18K 1/6W J
			R5001	OB09693A	RK 4.7K 1/6W J
			R5002	OB09677A	RK 1.0K 1/6W J
			R5003	OB09667A	RK 390 1/6W J
			R5004	OB09693A	RK 4.7K 1/6W J
			R5005, 5006	OB09695A	RK 5.6K 1/6W J
			R5007	OB09637A	RK 22 1/6W J
			R5008	OB09733A	RK 220K 1/6W J
			R5009	OB09669A	RK 470 1/6W J
			R5010	OB09657A	RK 150 1/6W J
			R5011	OB09701A	RK 10K 1/6W J
			R5012	OB09711A	RK 27K 1/6W J
			R5013	OB09703A	RK 12K 1/6W J
			R5014	OB09701A	RK 10K 1/6W J
			R5015	OB09715A	RK 39K 1/6W J
			R5016	OB09701A	RK 10K 1/6W J
			R5017	OB09645A	RK 47 1/6W J
			R5018	OB09725A	RK 100K 1/6W J
			R5019	OB09677A	RK 1.0K 1/6W J
			R5020, 5021	OB09695A	RK 5.6K 1/6W J
			R5022, 5023	OB09701A	RK 10K 1/6W J
			R5024, 5025	OB09701A	RK 10K 1/6W J
			R5026	OB09695A	RK 5.6K 1/6W J
			R5027, 5028	OB09693A	RK 4.7K 1/6W J
			R5029	OB09679A	RK 1.2K 1/6W J
			R5030	OB09653A	RK 100 1/6W J
			R5031	OB09701A	RK 10K 1/6W J
			R5036	OB09747A	RK 820K 1/6W J
			R5037, 5038	OB09701A	RK 10K 1/6W J
			R5039, 5040	OB09701A	RK 10K 1/6W J
			R5041	OB09695A	RK 5.6K 1/6W J
			R5042	OB09709A	RK 22K 1/6W J
			R5043	OB09741A	RK 470K 1/6W J
			R5044	OB09693A	RK 4.7K 1/6W J
			R5045	OB09701A	RK 10K 1/6W J
			R5046	OB09685A	RK 2.2K 1/6W J

Ref. No.	Part No.	Description
VC5000, 5001	OB42014A	C Trimmer 40P
VC5002	OB42014A	C Trimmer 40P
C501	OB41509A	CC 82P 50V J
C502	OB40564A	CE 100u 25V (LN)
C503	OB09290A	CC 0.01u 50V Z
C504	OB09292A	CC 0.10u 50V Z
C505	OB09817A	CE 33u 10V (LN)
C506	OB09290A	CC 0.01u 50V Z
C507	OB09292A	CC 0.10u 50V Z
C508	OB09833A	CE 4.7u 25V (LN)
C509	OB40564A	CE 100u 25V (LN)
C510	OB09290A	CC 0.01u 50V Z
C511	OB09292A	CC 0.10u 50V Z
C512	OB09817A	CE 33u 10V (LN)
C513	OB09290A	CC 0.01u 50V Z
C514	OB09292A	CC 0.10u 50V Z
C515	OB09833A	CE 4.7u 25V (LN)
C516	OB09817A	CE 33u 10V (LN)
C517	OB09290A	CC 0.01u 50V Z
C518	OB09292A	CC 0.10u 50V Z
C519	OB09833A	CE 4.7u 25V (LN)
C520	OB41957A	CC 6800P 50V Z
C521	OB40046A	CE 22u 6.3V
C522	OB41971A	CC 0.10u 50V Z
C523	OB40188A	CE 1u 50V (BP)
C524	OB05887A	CC 15P 50V K
C525	OB41971A	CC 0.10u 50V Z
C526	OB40046A	CE 22u 6.3V
C527	OB41971A	CC 0.10u 50V Z
C528	OB40046A	CE 22u 6.3V
C529	OB40582A	CE 470u 10V
C530	OB40564A	CE 100u 25V (LN)
C533, 534	OB41971A	CC 0.10u 50V Z
C535, 536	OB41971A	CC 0.10u 50V Z
C537, 538	OB41971A	CC 0.10u 50V Z
C539, 540	OB41971A	CC 0.10u 50V Z
C541, 542	OB41971A	CC 0.10u 50V Z
C543, 544	OB41971A	CC 0.10u 50V Z
C545, 546	OB41971A	CC 0.10u 50V Z
C547, 548	OB41971A	CC 0.10u 50V Z
C549, 550	OB41971A	CC 0.10u 50V Z
C551, 552	OB41971A	CC 0.10u 50V Z
C553, 554	OB41971A	CC 0.10u 50V Z
C555, 556	OB41971A	CC 0.10u 50V Z
C557, 558	OB41971A	CC 0.10u 50V Z
C559, 560	OB41971A	CC 0.10u 50V Z
C561, 562	OB41971A	CC 0.10u 50V Z
C563, 564	OB41971A	CC 0.10u 50V Z
C565, 566	OB41971A	CC 0.10u 50V Z
C567, 568	OB41971A	CC 0.10u 50V Z
C569, 570	OB41971A	CC 0.10u 50V Z
C571	OB41971A	CC 0.10u 50V Z
C572	OB40052A	CE 470u 6.3V
C573	OB09292A	CC 0.10u 50V Z
C574	OB40052A	CE 470u 6.3V
C575	OB09292A	CC 0.10u 50V Z
C576, 577	OB40052A	CE 470u 6.3V
C578	OB09292A	CC 0.10u 50V Z
C579	OB40052A	CE 470u 6.3V
C580	OB09292A	CC 0.10u 50V Z
C581	OB40052A	CE 470u 6.3V
C582	OB09292A	CC 0.10u 50V Z
C583, 584	OB40052A	CE 470u 6.3V
C587	OB40599A	CE 33u 16V
C588	OB05905A	CC 5P 50V C
C589	OB41304A	CML 0.33u 50V J
C590	OB01400A	CE 100u 16V
C5000	OB40570A	CE 47u 16V (LN)
C5001	OB41023A	CC 0.022u 25V
C5002	OB09333A	CE 4.7u 50V (LN)
C5003, 5004	OB09127A	CML 3300P 50V K
C5005	OB09221A	CE 1.5u 50V (LN)
C5006	OB40186A	CE 47u 10V (LN)
C5007	OB41023A	CC 0.022u 25V
C5008	OB41975A	CC 10P 50V D
C5009	OB40153A	CE 1u 50V (LN)
C5010, 5011	OB41023A	CC 0.022u 25V
C5012	OB41979A	CC 82P 50V J
C5013	OB41023A	CC 0.022u 25V
C5014	OB40418A	CE 330u 16V (LN)
C5015, 5016	OB41023A	CC 0.022u 25V
C5017	OB40570A	CE 47u 16V (LN)

Ref. No.	Part No.	Description
C5018	OB41023A	CC 0.022u 25V
C5019	OB41976A	CC 33P 50V J
C5020, 5021	OB41971A	CC 0.10u 50V Z
C5022	OB41971A	CC 0.10u 50V Z
C5023	OB40570A	CE 47u 16V (LN)
C5026	OB40178A	CE 0.47u 50V (LN)
C5027, 5028	OB41971A	CC 0.10u 50V Z
C5029	OB41971A	CC 0.10u 50V Z
C5030, 5031	OB41971A	CC 0.10u 50V Z
C5032, 5033	OB41971A	CC 0.10u 50V Z
C5034	OB40570A	CE 47u 16V (LN)
C5035	OB41978A	CC 68P 50V J
C5036	OB40153A	CE 1u 50V (LN)
C5037	OB41971A	CC 0.10u 50V Z
C5038	OB41708A	CC 22P 50V J
C5039	OB41975A	CC 10P 50V J
C5040	OB41708A	CC 22P 50V J
C5041	OB40570A	CE 47u 16V (LN)
C5042	OB41512A	C 10P 50V D
C5043	OB09292A	CC 0.1u 50V Z
S501, 502	OB70146A	Slide SW 2-2
S503	OB70146A	Slide SW 2-2
S504	OB70151A	Toggle Switch [N-1000P Pro.]
TP1, 2	OB81734A	Check Pin
TP3, 4	OB81734A	Check Pin
TP5, 6	OB81734A	Check Pin
TP7, 8	OB81734A	Check Pin
TP9, 10	OB81734A	Check Pin
TP511, 512	OB81734A	Check Pin
OPT501	OB10274A	Tos Link TOTX174
OPT502	OB10273A	Tos Link TORX174
OPT503	OB10274A	Tos Link TOTX174
OPT504, 505	OB10273A	Tos Link TORX174
PJ501, 502	OB81998A	1P Pin Jack
PJ503, 504	OB81998A	1P Pin Jack
PJ505	OB81998A	1P Pin Jack
	OB80219A	Bus Bar A (2)
- Miscellaneous Part -		
CN103	OB84005A	DIN Connector P100PX (1)
	OE03030A	M3x6 + Binding (Nickel) (3)
	OE03502A	Spring Washer 2.6mm (Nickel) (2)
	OE03503A	Nut Hex. 2.6mm (Nickel) (2)
	OE03523A	M2.6x10 + Pan (Nickel) (2)
	OE03526A	BT3x6 + Binding (10)
	OH05463C	DAIF Panel 101P [N-1000P] (1)
	OH05592B	DAIF Panel 102P [N-1000P Pro.] (1)
	OJ05953A	P Jack Earth Plate (5)

## 8. MOUNTING DIAGRAMS

- Notes: 1. Mounting diagram shows a dip side view of the printed circuit board.  
2. Parts list is shown in Section 7.

8.1. Power Switch P.C.B. Ass'y

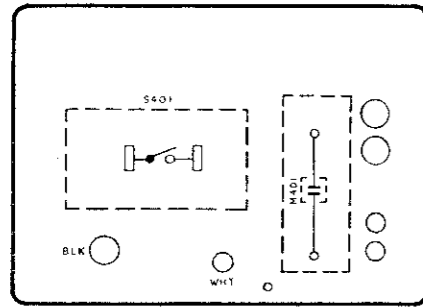


Fig. 8.1

8.2. Output Volume P.C.B. Ass'y

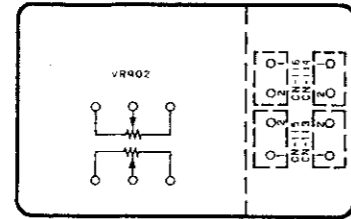


Fig. 8.2

8.3 Input Volume P.C.B. Ass'y

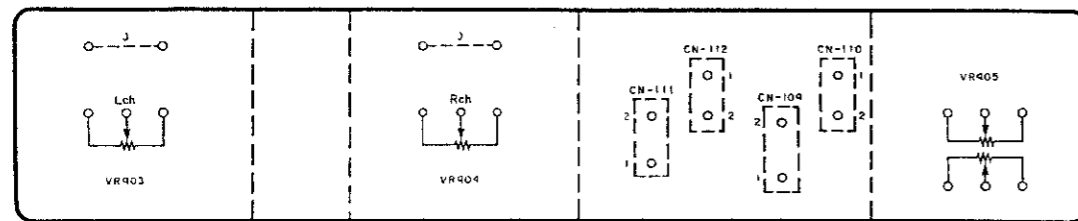


Fig. 8.3

8.4. Monitor Switch P.C.B. Ass'y

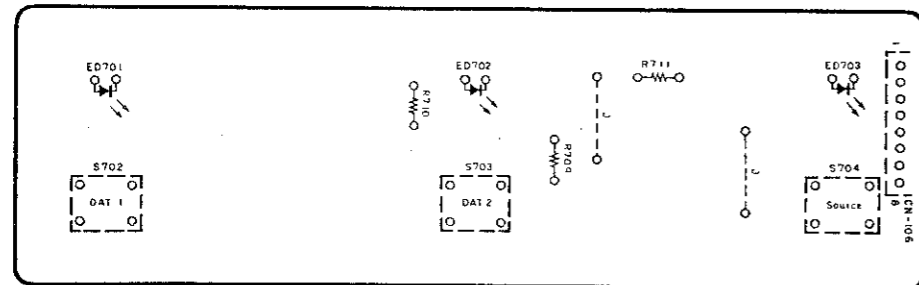


Fig. 8.4

8.5. Headphone P.C.B. Ass'y

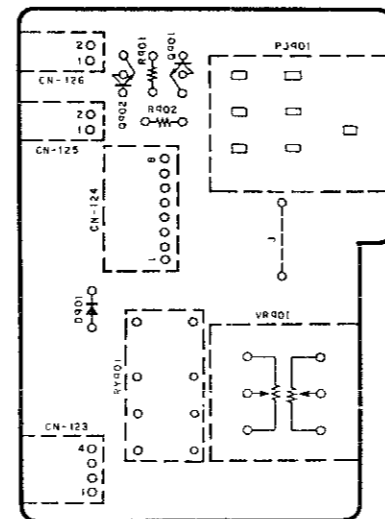


Fig. 8.5

8.6. Analog Power Supply P.C.B. Ass'y

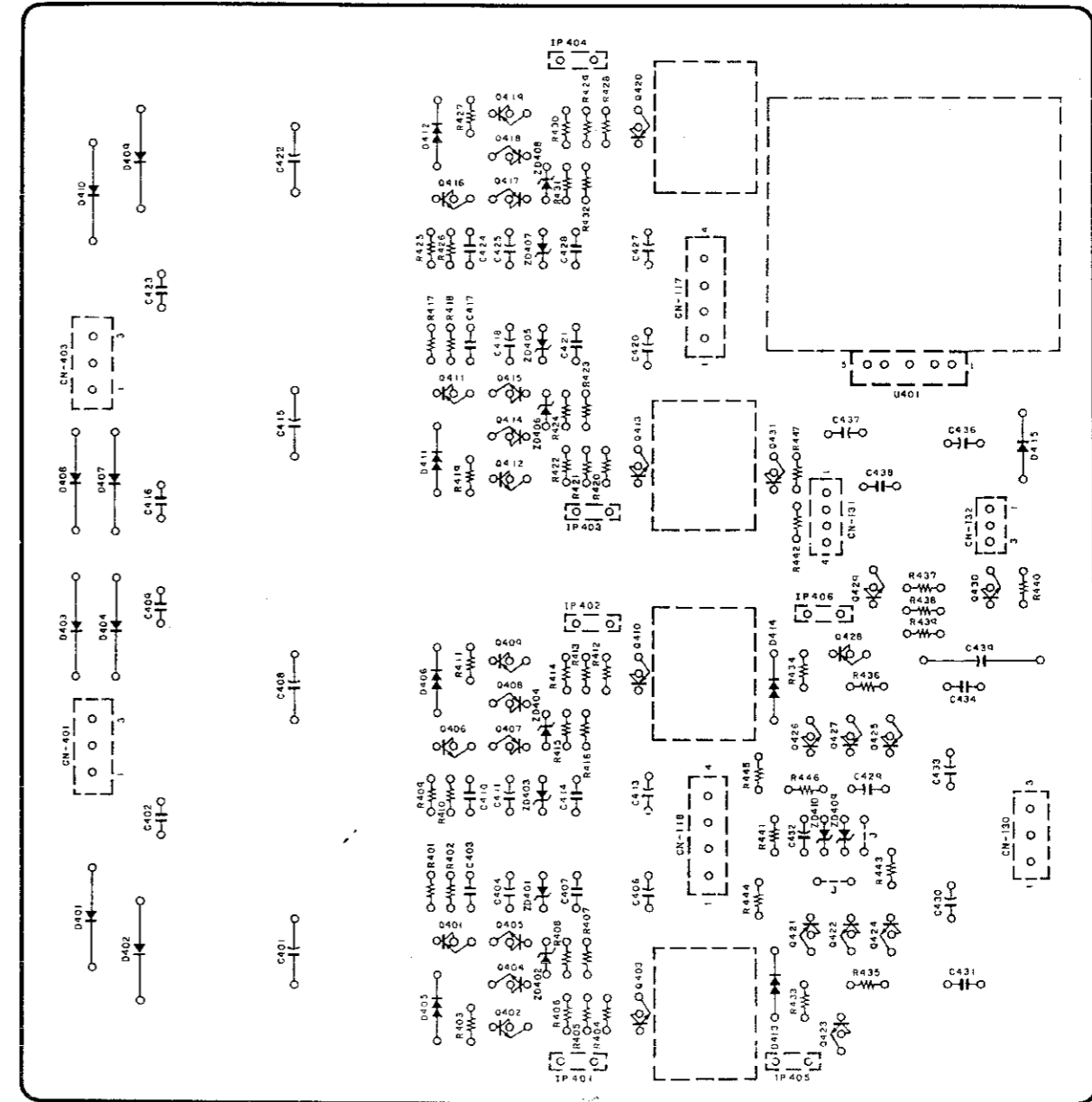


Fig. 8.6

8.7. Digital Power Supply P.C.B. Ass'y

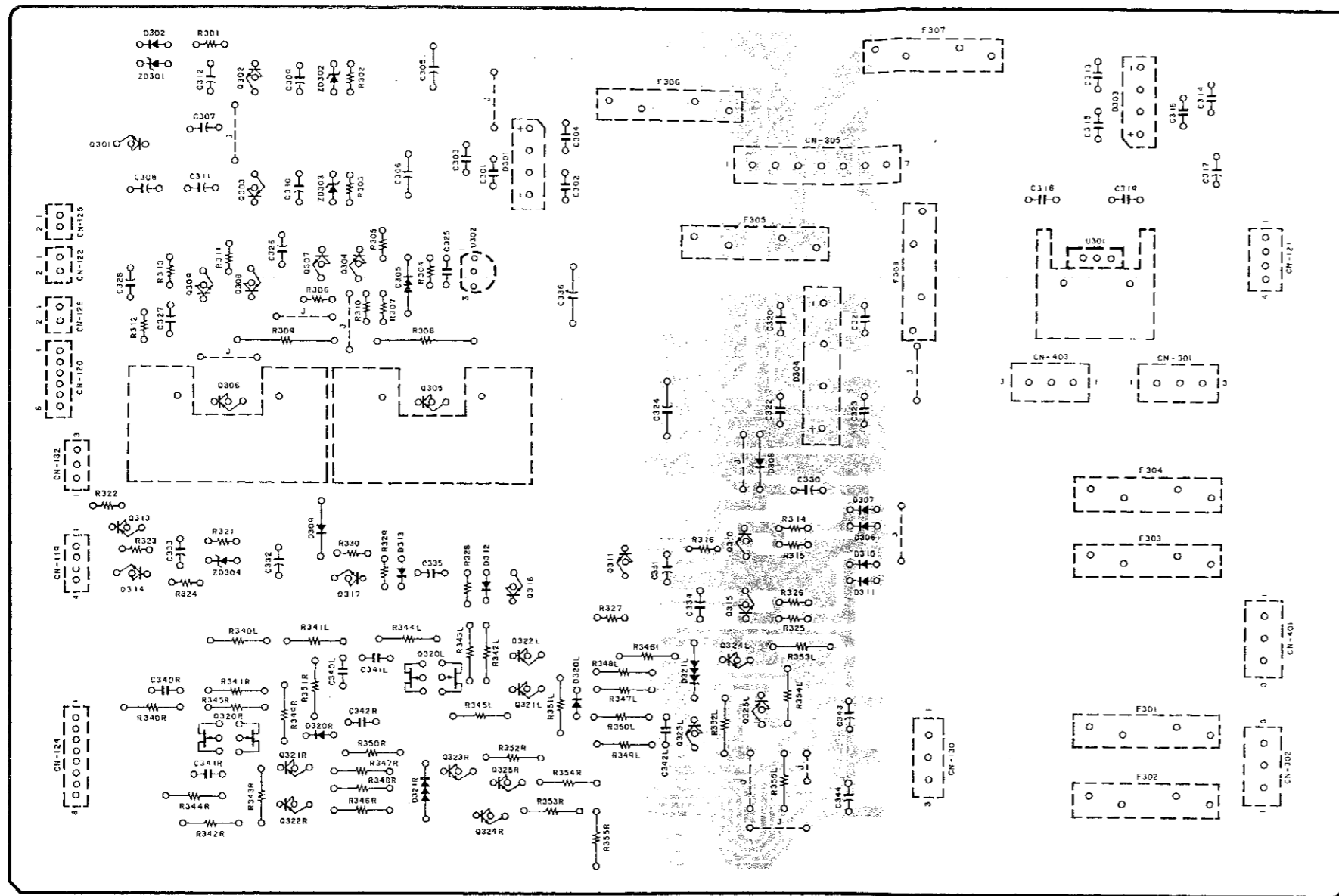


Fig. 8.7

8.8. Display P.C.B. Ass'y

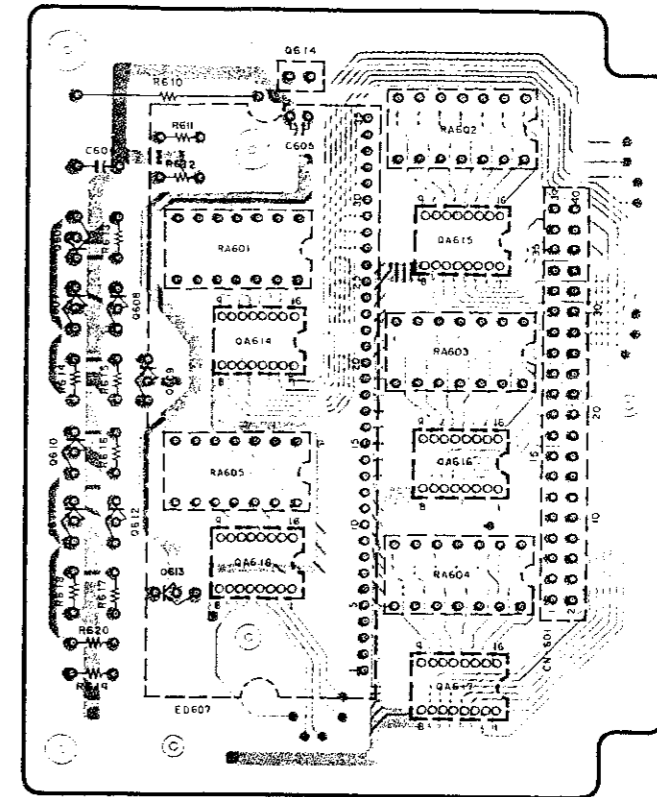


Fig. 8.8

8.9. Function Switch P.C.B. Ass'y

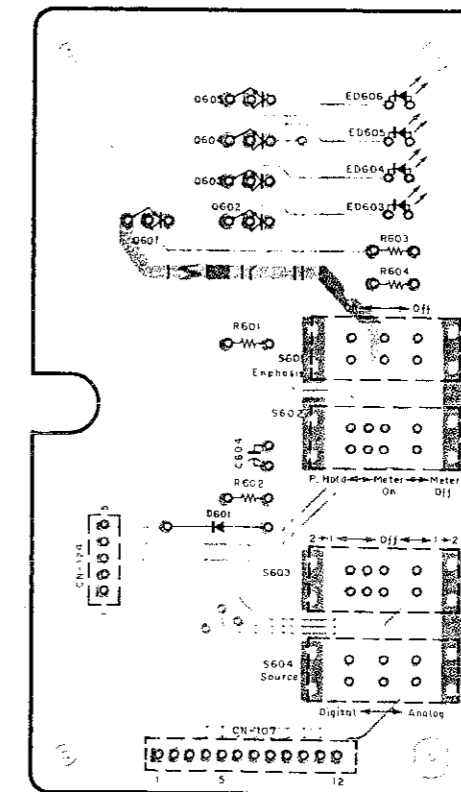
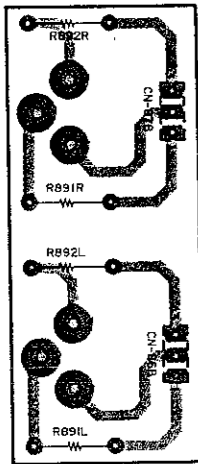
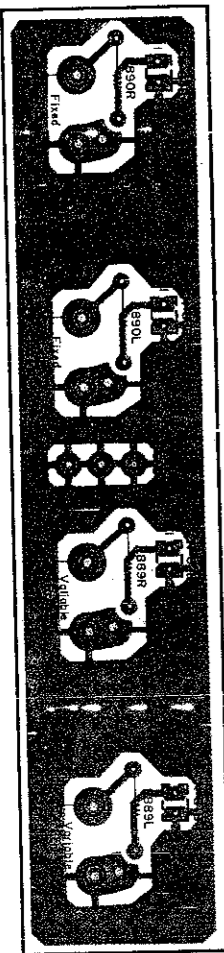


Fig. 8.9





Cannon Connector P.C.B.



Pin Jack P.C.B.

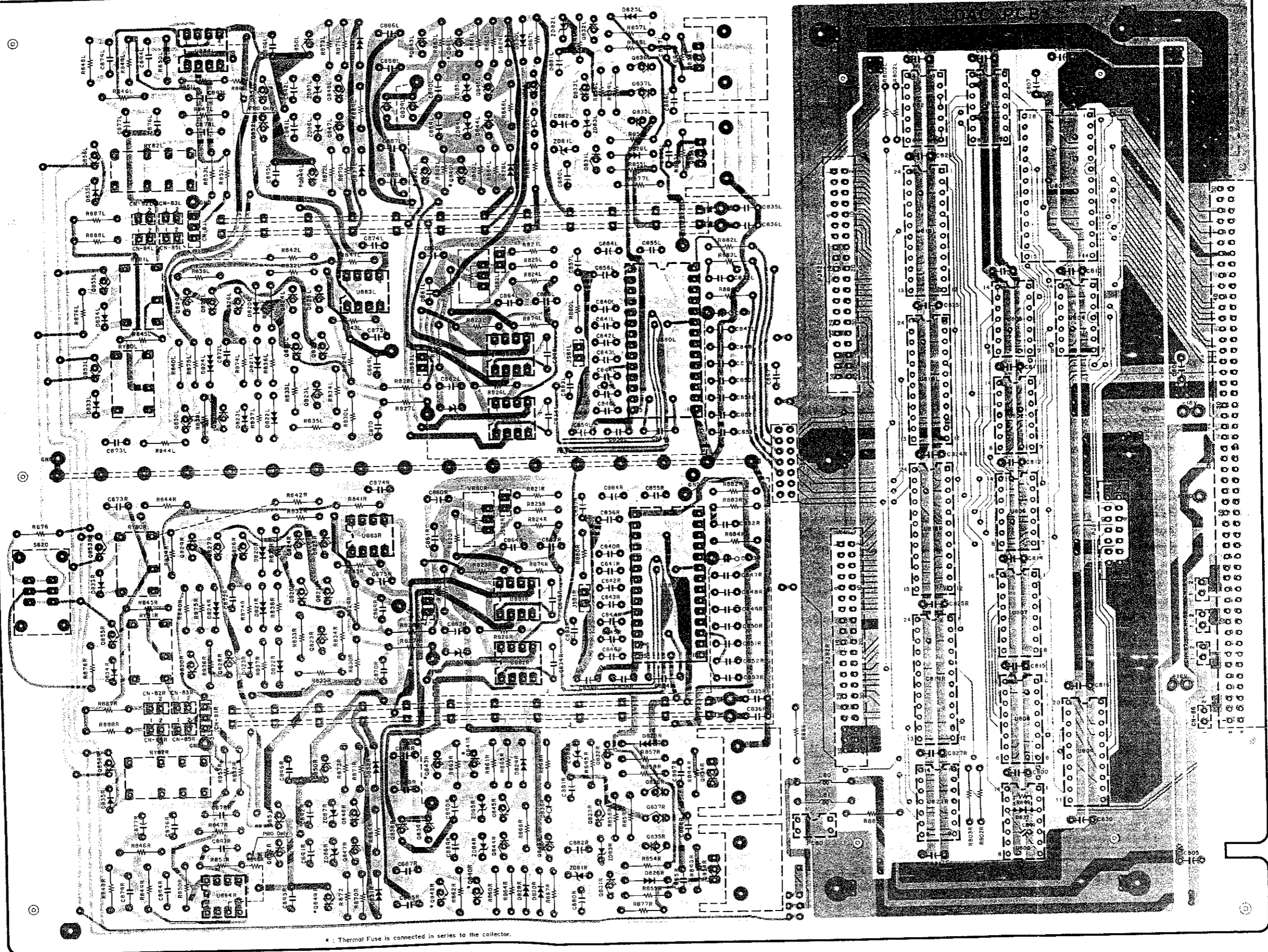


Fig. 8.12.2 DAC Main P.C.B. (DAC P.C.B. Ass'y)

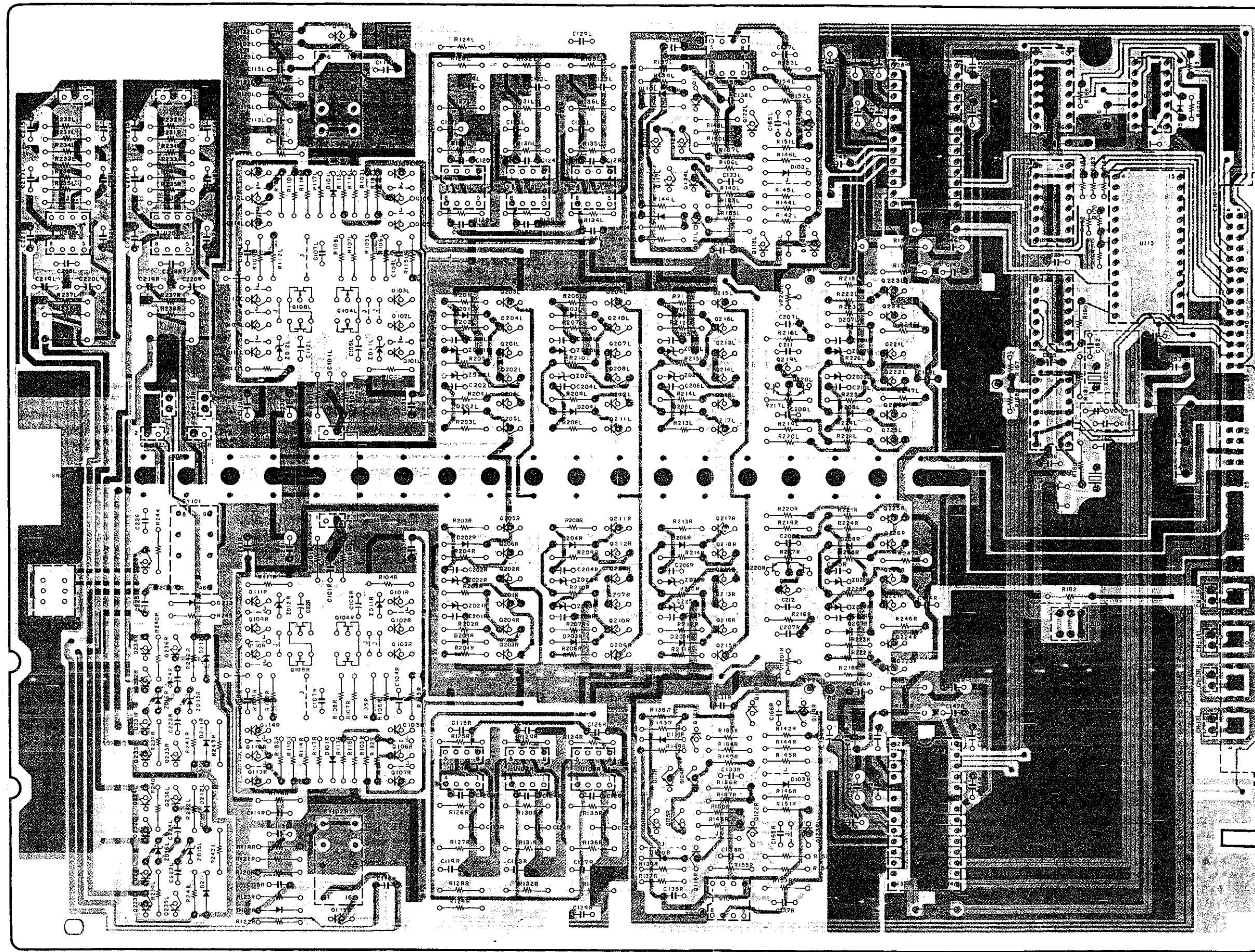


Fig. 8.13

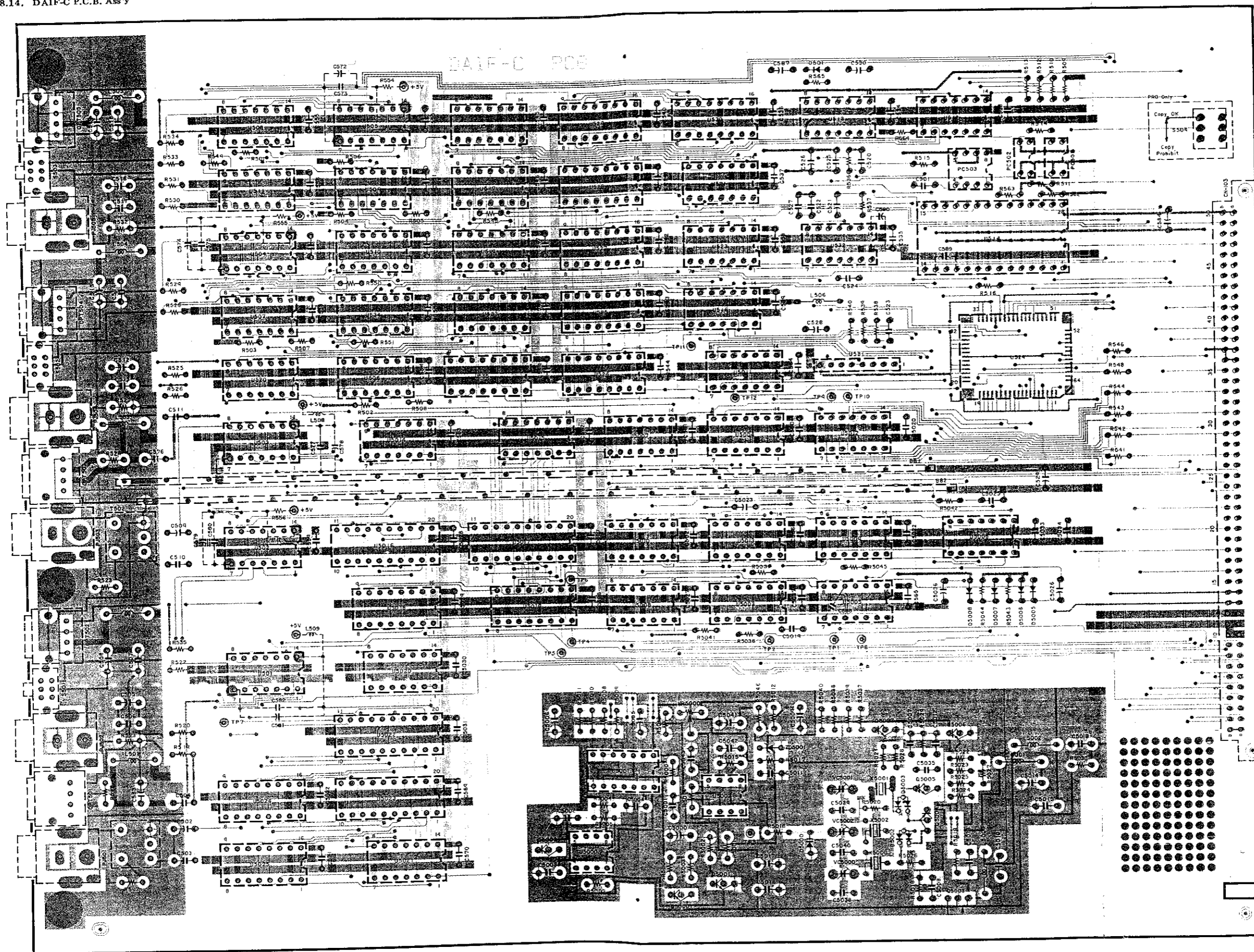


Fig. 8.14



9. SCHEMATIC DIAGRAMS

9.1. DAIF-C Section

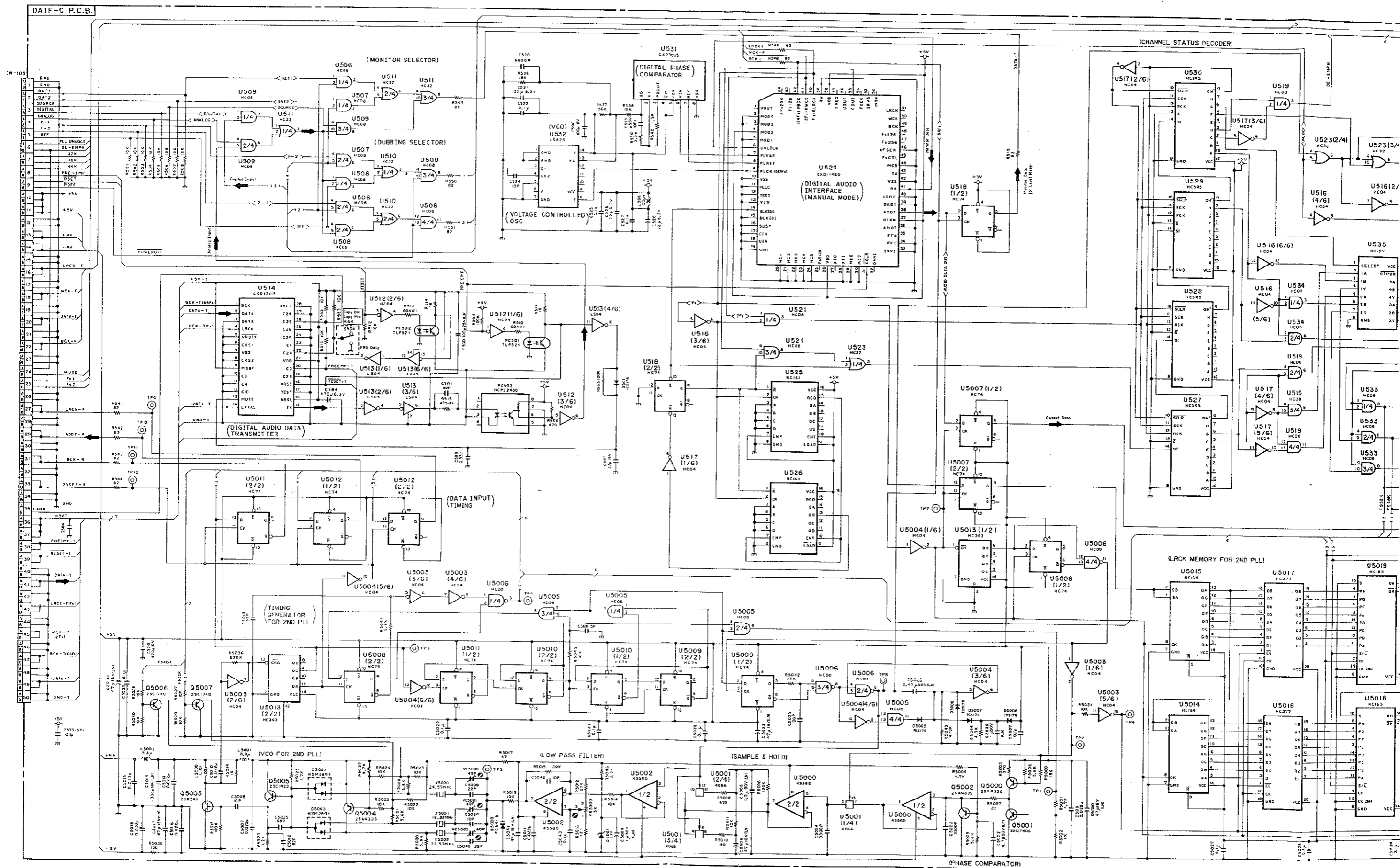


Fig. 9.1 DAIF-C Section

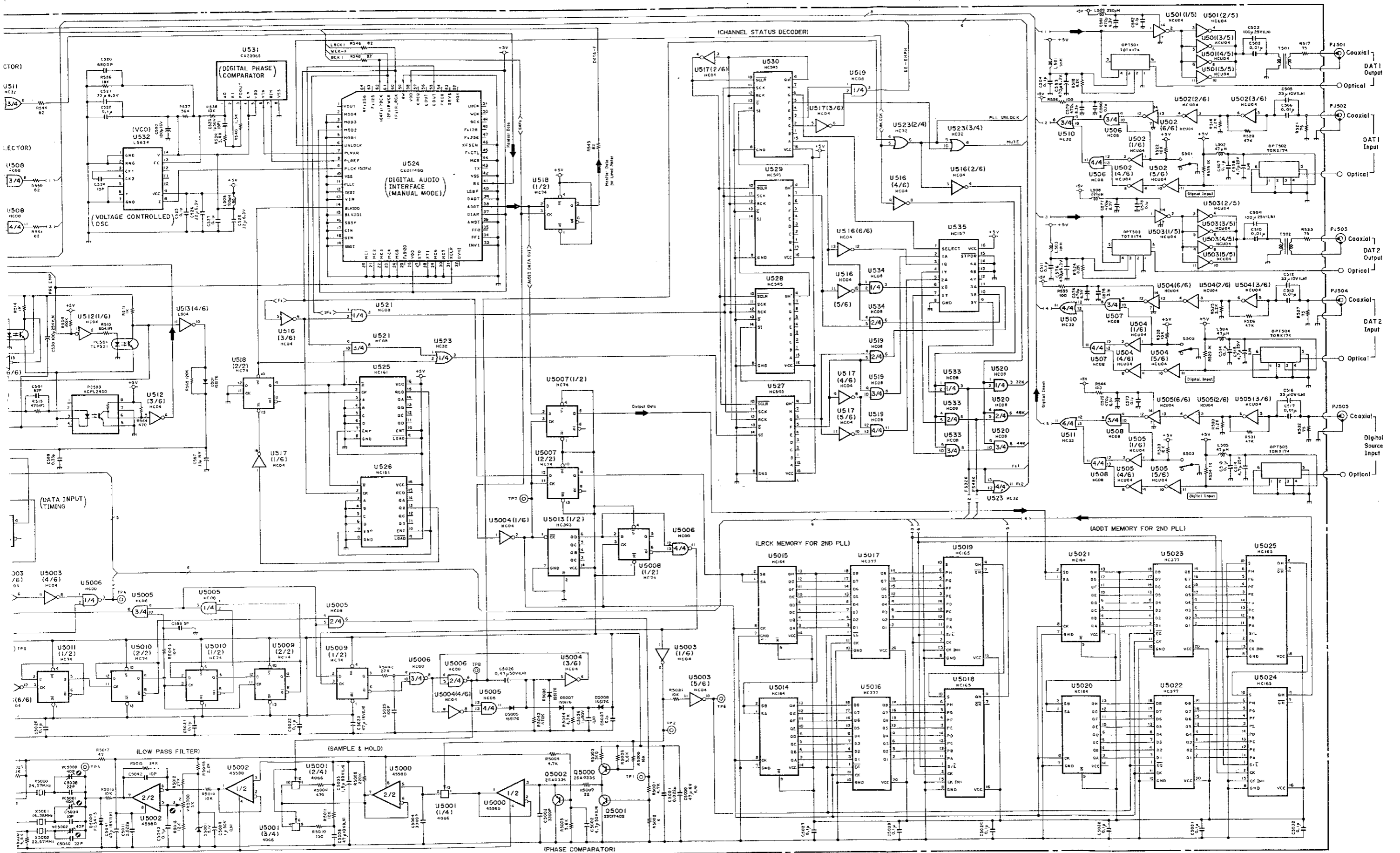
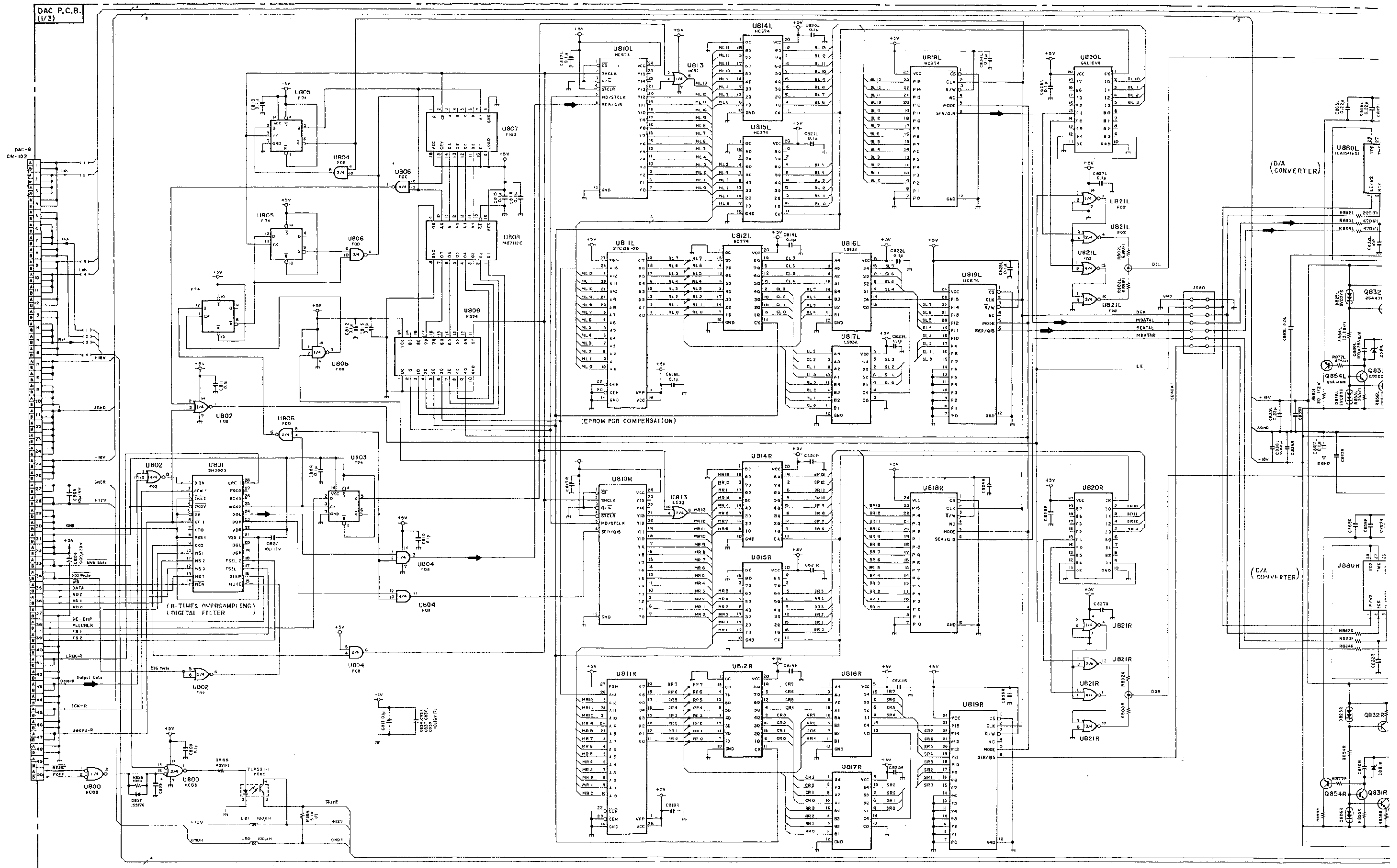


Fig. 9.1 DAIF-C Section

9.2. DAC Section



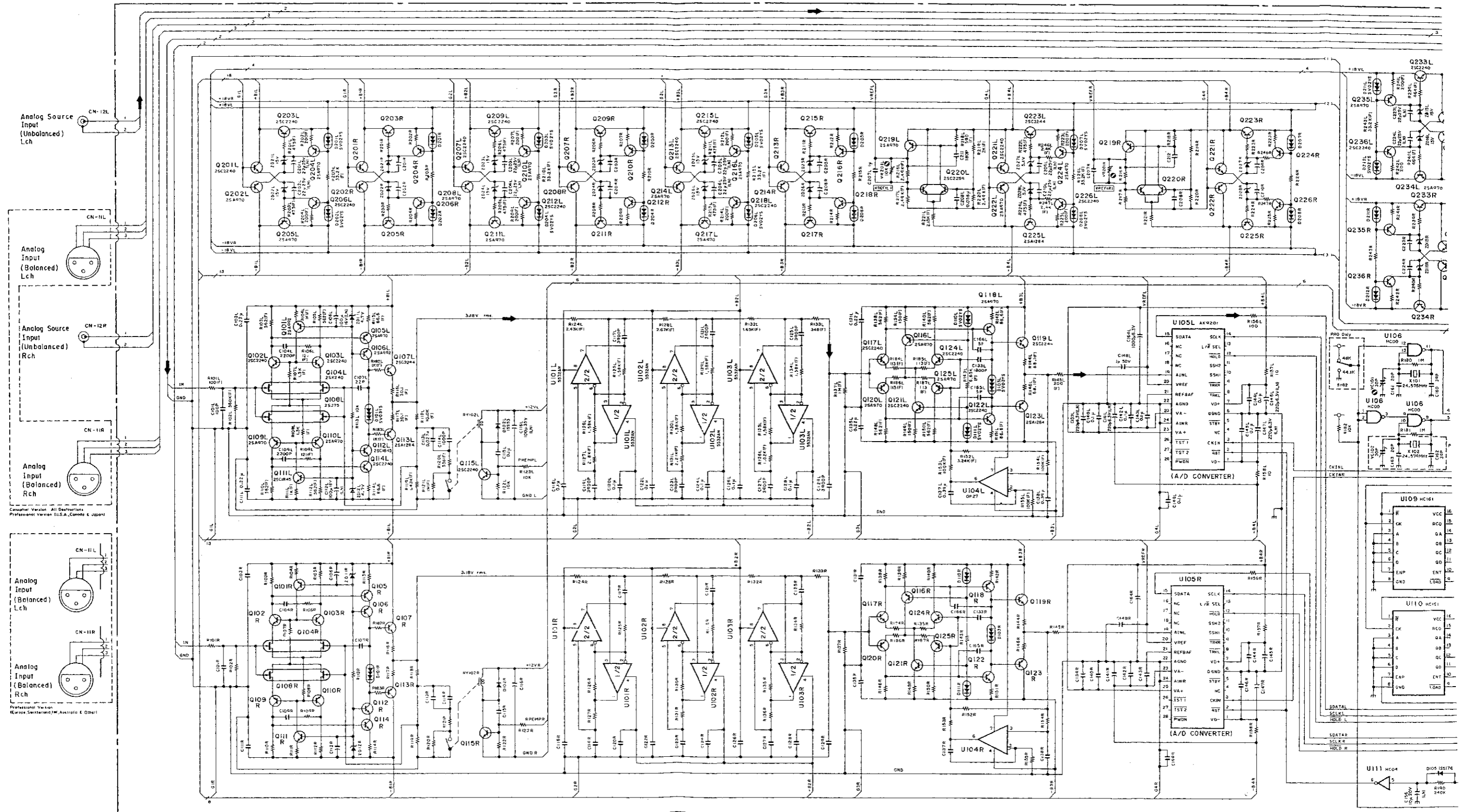


Fig. 9.3 ADC Section

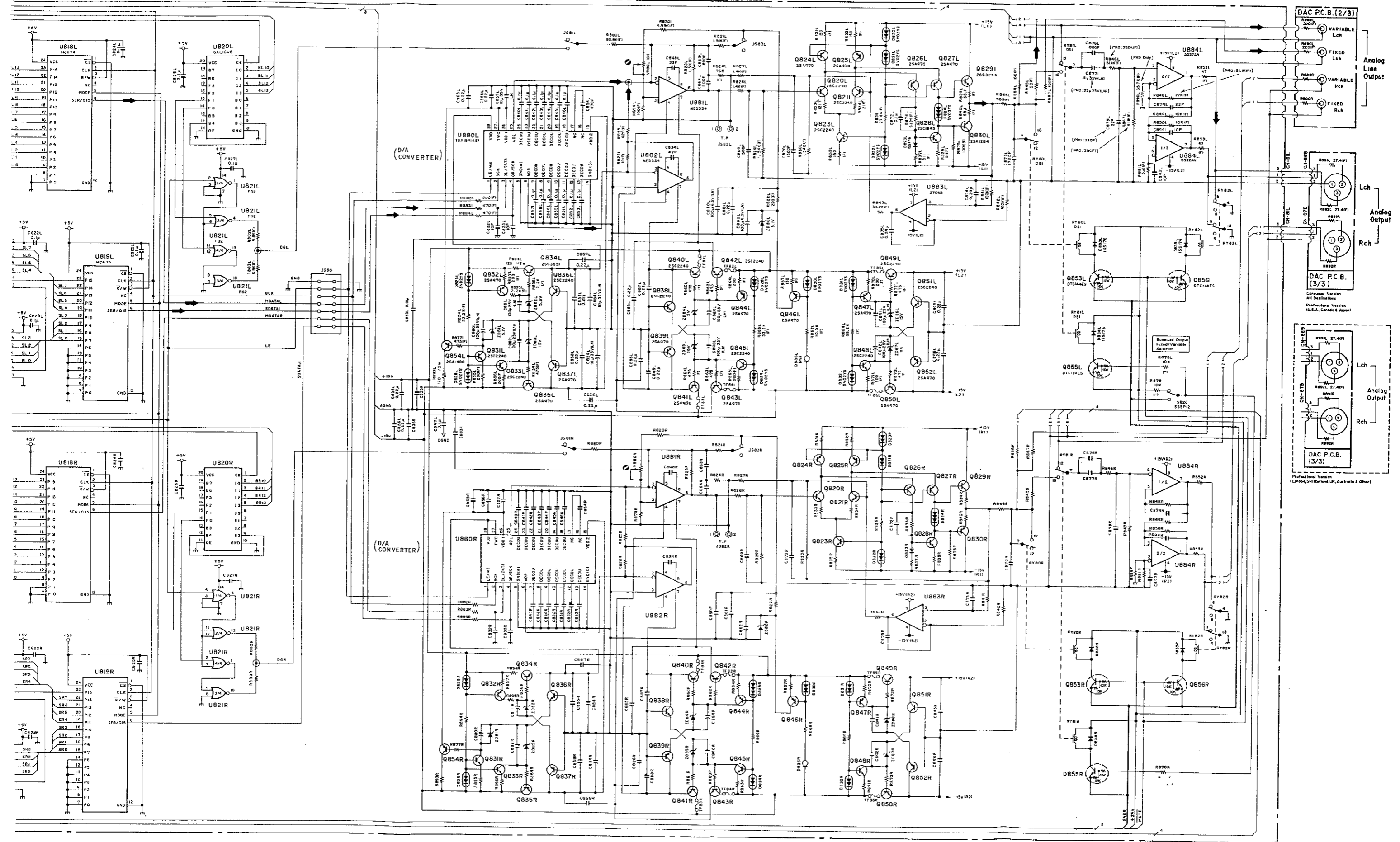


Fig. 9.2 DAC Section

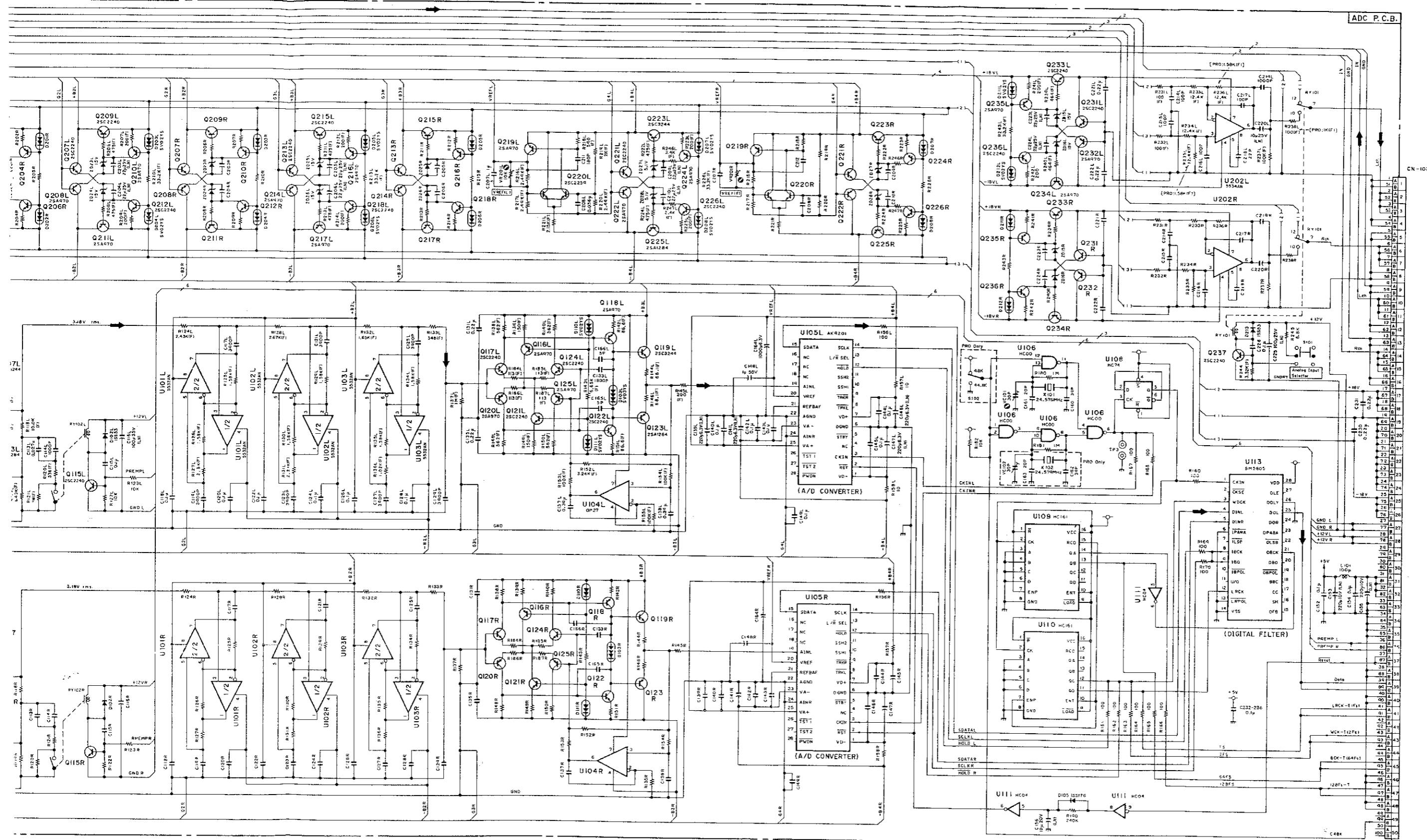


Fig. 9.3 ADC Section

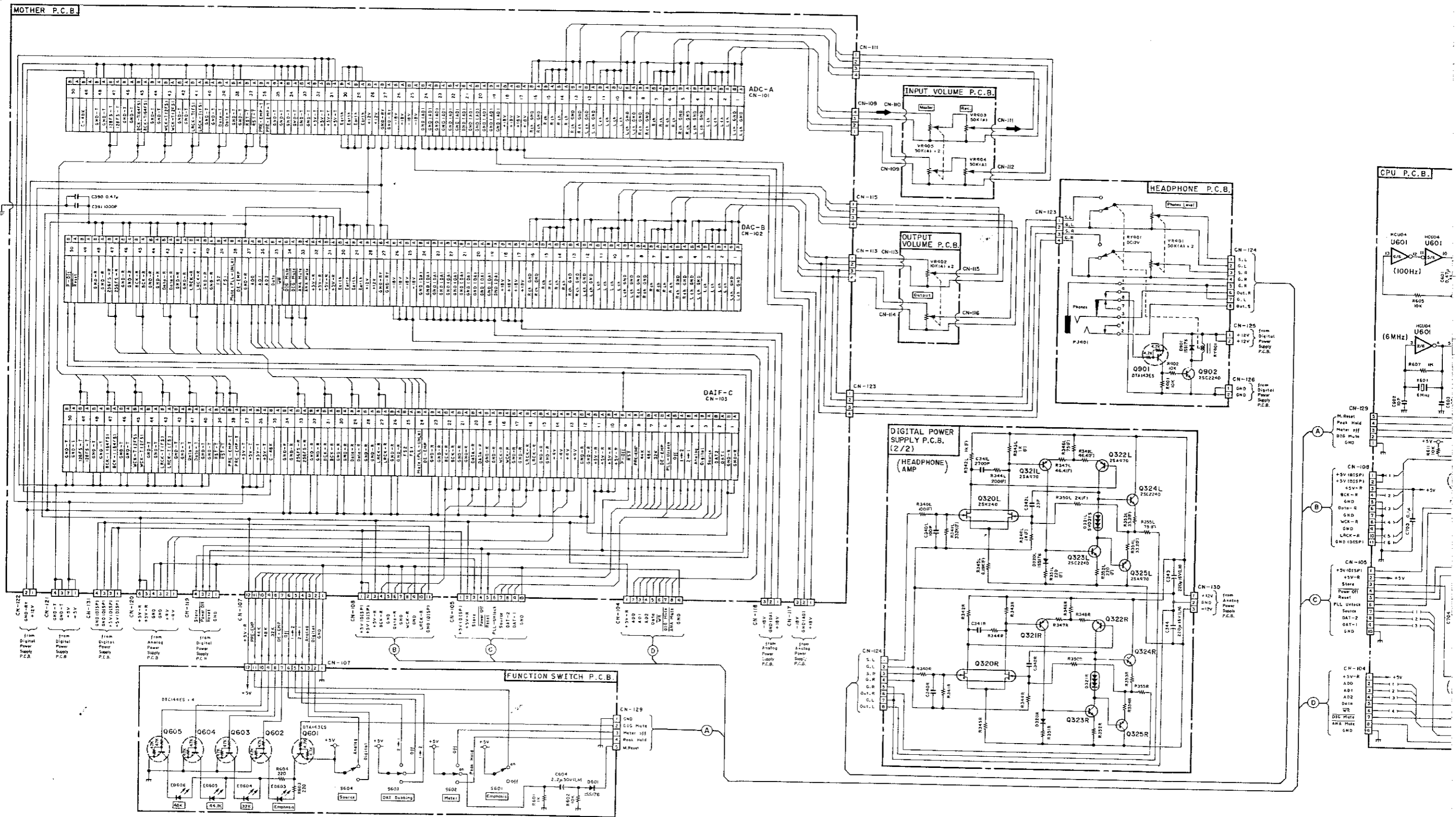


Fig. 9.4 Mother Board/CPU/Display Section

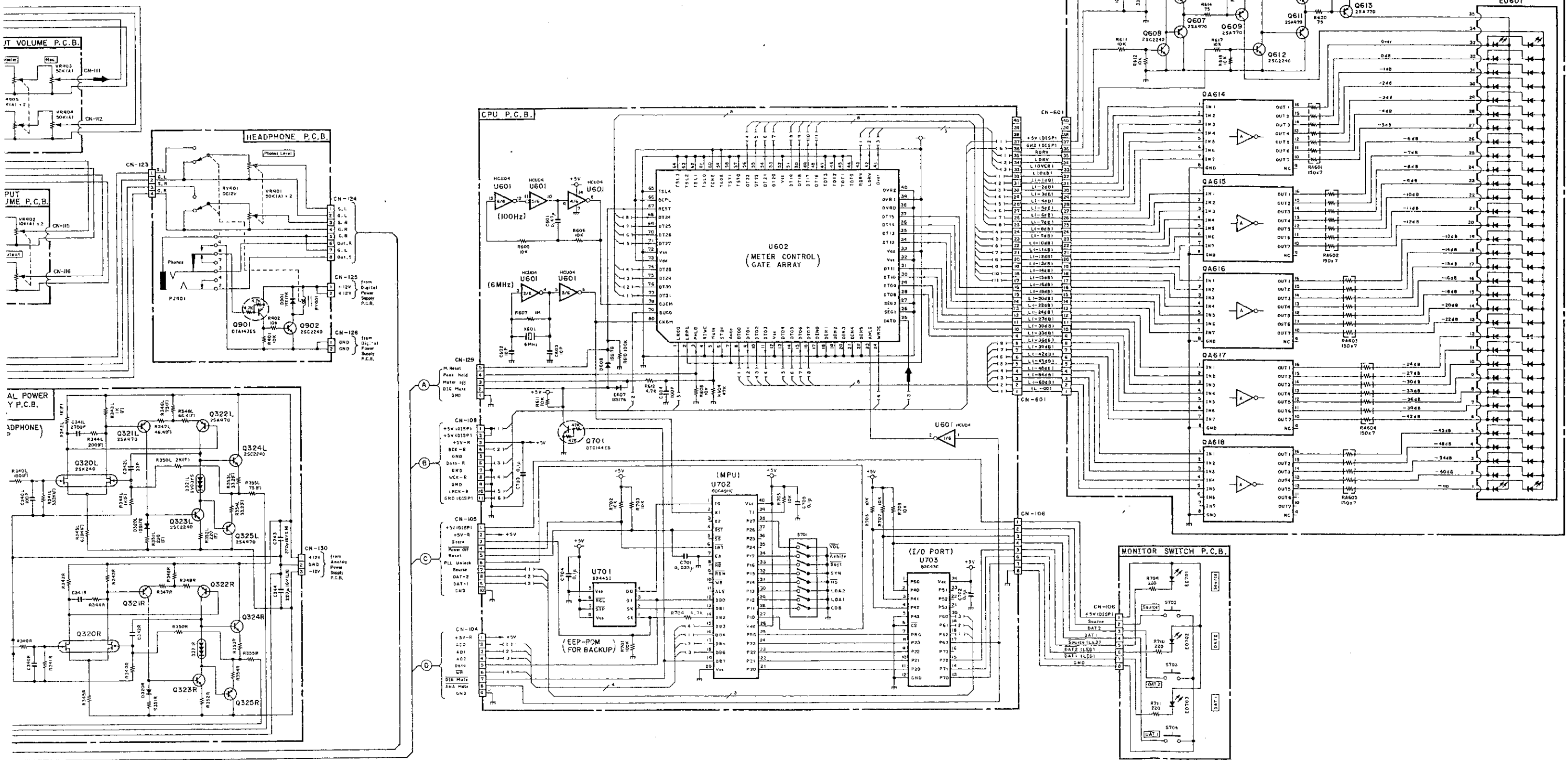
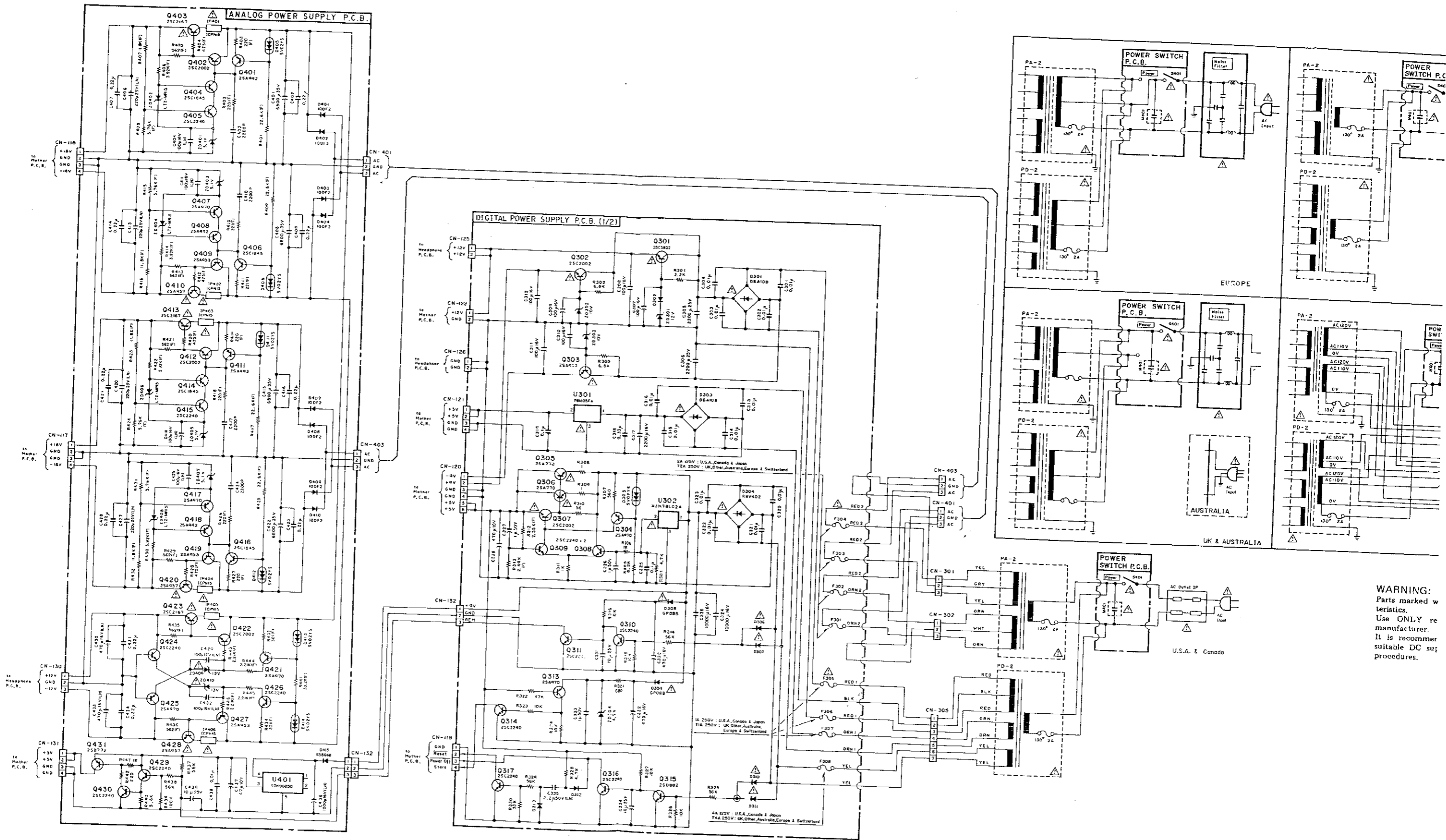


Fig. 9.4 Mother Board/CPU/Display Section

N-1000P  
MOTHER P.C.B.  
CPU P.C.B.  
DISPLAY P.C.B.





**WARNING:**  
Parts marked with  
asterisks.  
Use ONLY re  
manufacturer.  
It is recomm  
suitable DC su  
procedures.

Fig. 9.5 Power Supply Section

U.S.A. & CANADA (120V)

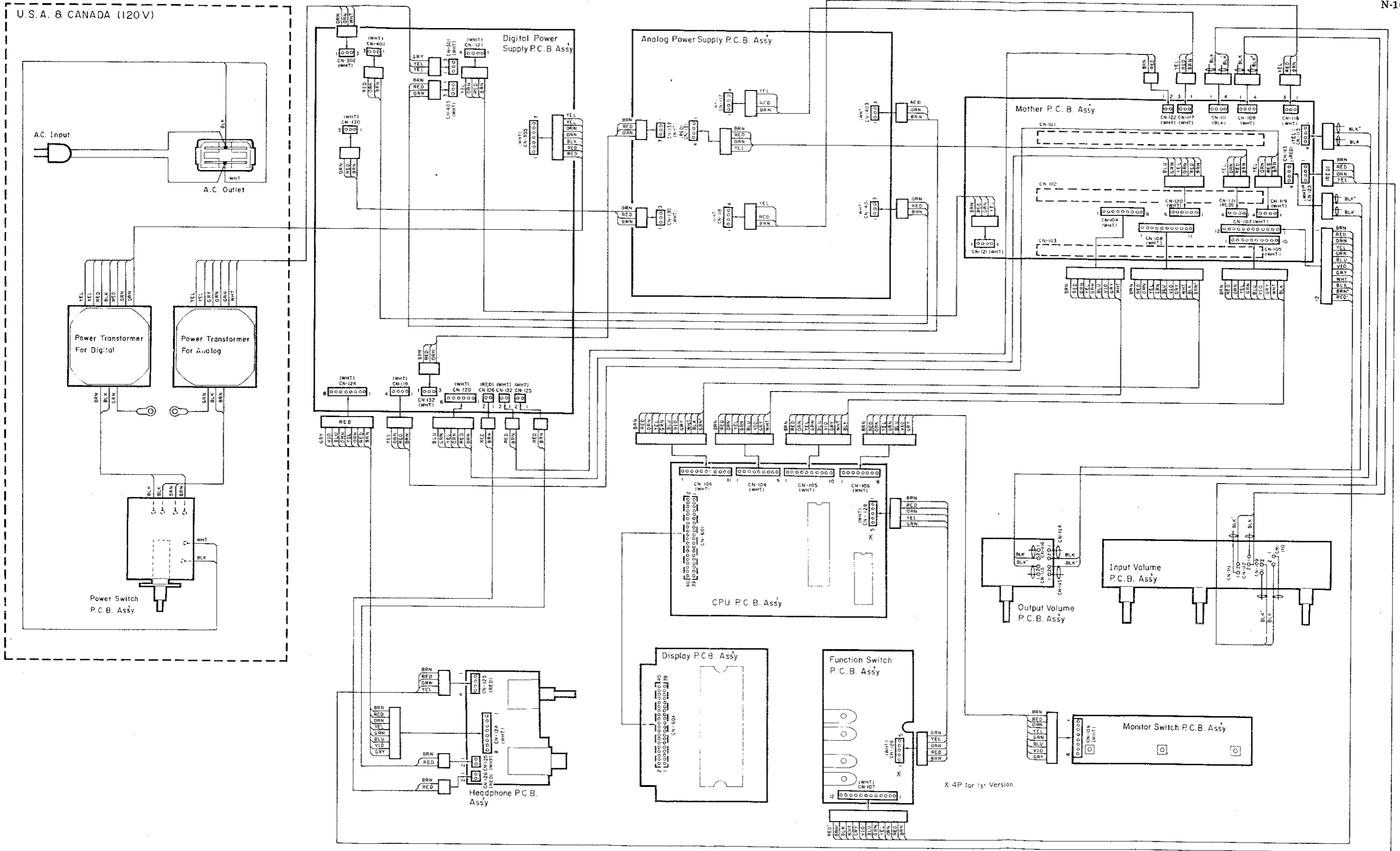
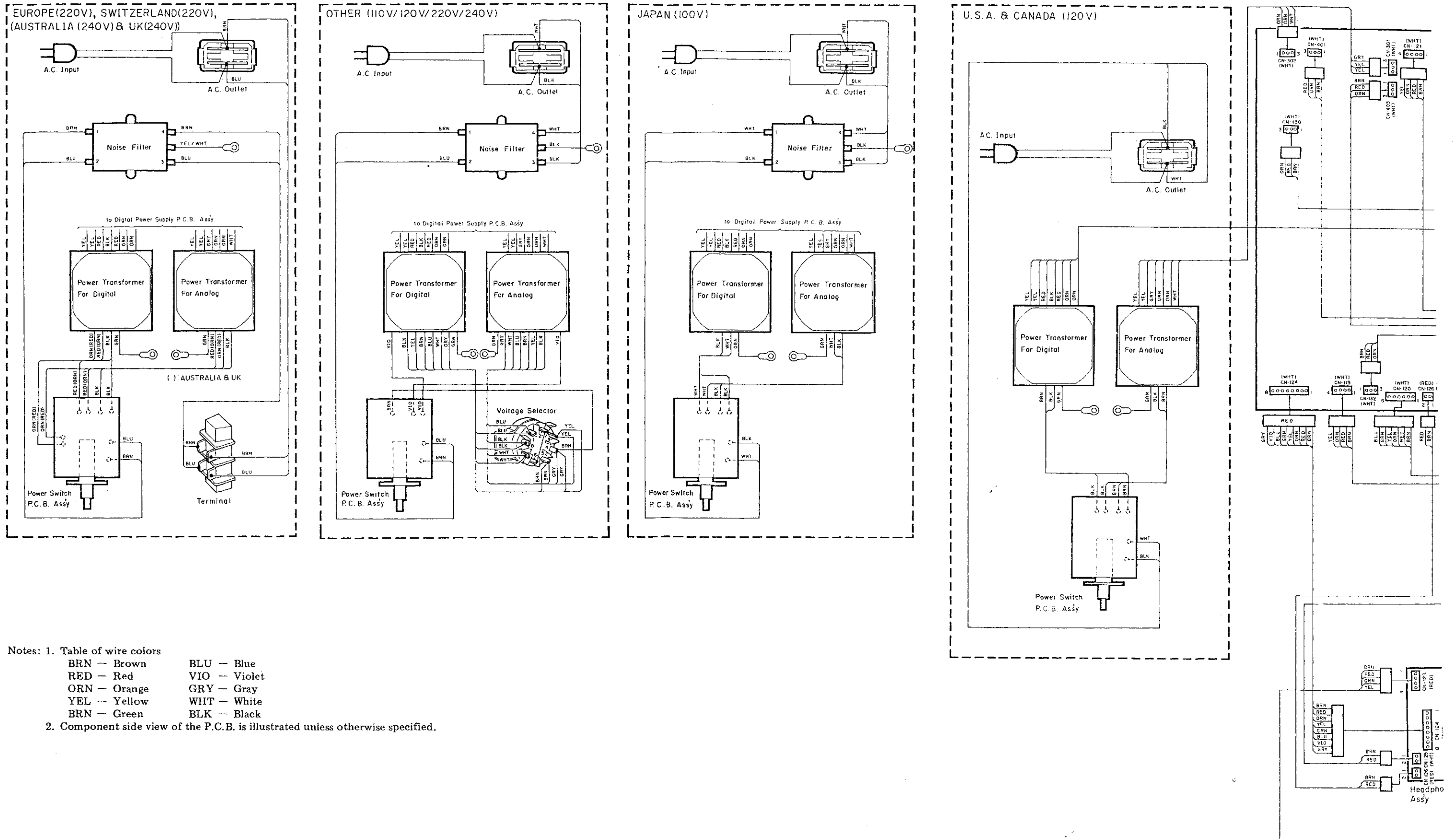


Fig. 10

10. WIRING DIAGRAM



Notes: 1. Table of wire colors

- |              |              |
|--------------|--------------|
| BRN — Brown  | BLU — Blue   |
| RED — Red    | VIO — Violet |
| ORN — Orange | GRY — Gray   |
| YEL — Yellow | WHT — White  |
| BRN — Green  | BLK — Black  |

2. Component side view of the P.C.B. is illustrated unless otherwise specified.

Fig. 10

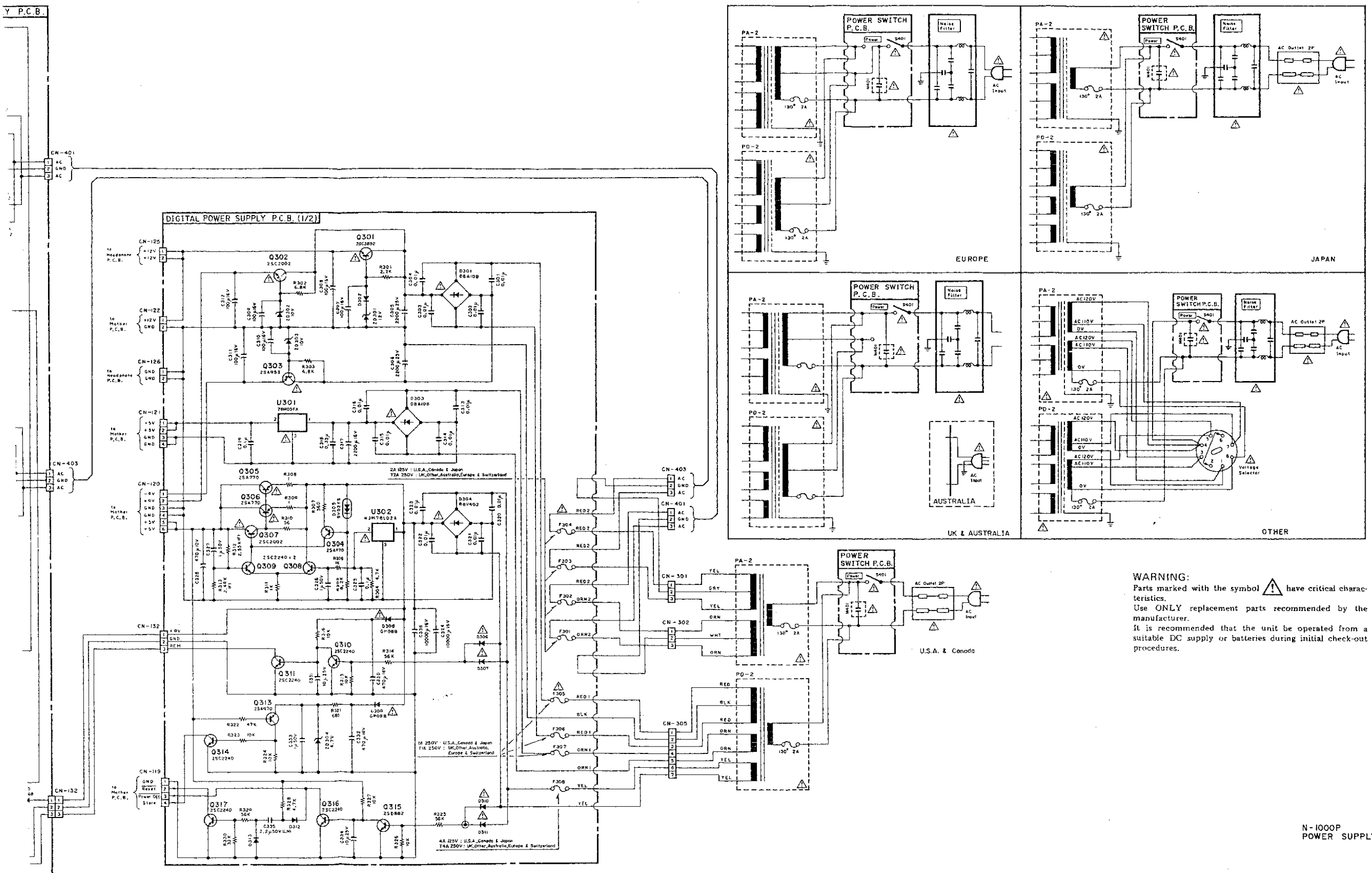


Fig. 9.5 Power Supply Section

N-1000P  
 POWER SUPPLY P.C.B.

## 11. SPECIFICATIONS

### (D/A Converter)

System	20-bit calibrated D/A converter with 20-bit 8-times oversampling digital filter
Sampling Frequencies	48/44.1/32 kHz
Frequency Response	5 — 20,000 Hz $\pm 0.5$ dB*
Signal-to-Noise Ratio	Better than 106 dB*
Dynamic Range	Better than 100 dB*
Total Harmonic Distortion	0.0005% (1 kHz)*
Total Harmonic Distortion + Noise	0.0015% (1 kHz)*
Channel Separation	Better than 106 dB*

\*: with 44.1 kHz sampling frequency

### (A/D Converter)

System	16-bit A/D converter with auto calibration and 16-bit dual oversampling digital filter
Sampling Frequency	48 kHz
Frequency Response	5 — 22,000 Hz $\pm 0.5$ dB**
Signal-to-Noise Ratio	Better than 95 dB**
Dynamic Range	Better than 95 dB**
Total Harmonic Distortion	0.001% (1 kHz)**
Total Harmonic Distortion + Noise	0.003% (1 kHz)**
Channel Separation	Better than 85 dB**

\*\* : with 48 kHz sampling frequency, after A/D and D/A conversion

### (Input/Output)

Digital Input	75-ohm coaxial/optical (switchable) $\times 3$
Digital Output	75-ohm coaxial/optical (parallel) $\times 2$
Line Input	
(Balanced)	50 mV (–18 dB, Rec Level max.)/ 40 kohms
(Unbalanced)	50 mV (–18 dB, Rec Level max.)/ 25 kohms
Line Output	
(Balanced)	Fixed: 2 V (0 dB)/100 ohms Variable: 2 V (0 dB, output Level max.)/100 ohms
(Unbalanced)	Fixed: 2 V (0 dB)/1 kohm Variable: 2 V (0 dB, Output Level max.)/1 kohm

### (General)

Headphone Output	100 mW (0 dB, Phones Level max.)/ 75 ohms
Power Requirements	120, 220, 240 or 110/120/220/240 V AC, 50/60 Hz (According to country of sale)
Power Consumption	70 W max.
Dimensions (excluding protruding parts and feet)	435 (W) $\times$ 133 (H) $\times$ 370 (D) mm 17-1/8 (W) $\times$ 5-1/4 (H) $\times$ 14-9/16 (D) inches
Approximate Weight	17.5 kg, 38 lbs. 9 oz.

- Specifications and design are subject to change for further improvement without notice.