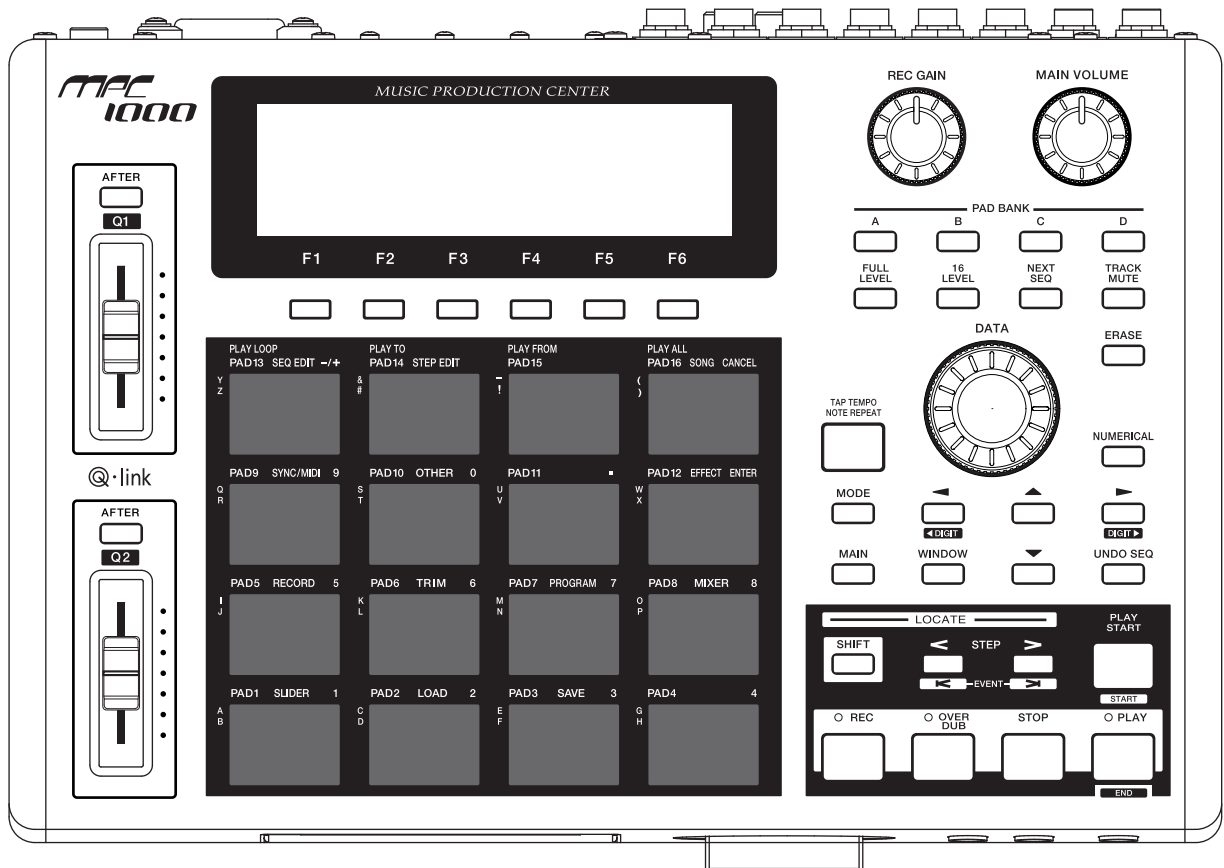



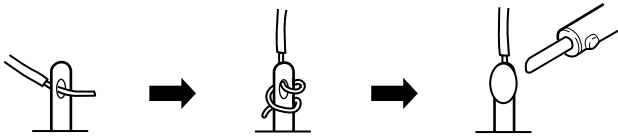
## MFC1000



**Music production Center**

# SAFETY INSTRUCTIONS

1. Parts identified by the  symbol are critical for safety. Replace them only with the parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with the specified replacements.  
Examples : Noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially :
  - 1) Wires covered with PVC tubing
  - 2) Double insulated wires
  - 3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially :
  - 1) Insulation Tape
  - 2) PVC tubing
  - 3) Spacers (insulating barriers)
  - 4) Insulation sheets for transistors
  - 5) Plastic screws for fixing micro switches
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap the ends of the wires securely around the terminals before soldering.



6. Make sure that wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Make sure that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

## SAFETY CHECK AFTER SERVICING








After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit. The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resistor of 1500 ohms paralleled with a 0.15 F capacitor, under the unit's normal working conditions.

The leakage-current should be less than 0.5 mA rms AC. The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 M ohms.

# INFORMATIONS

## SYMBOLS FOR PRIMARY DESTINATION

Unit destinations are indicated with letters as shown below.

Symbols	Principal Destinations
	U.S.A
	England
	Europe
	Japan
	Germany
	Japan
	Universal Area

## MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can.



Please leave them at an appropriate depot.

## PRECAUTIONS FOR LITHIUM BATTERY

The lithium battery may explode when incorrectly replaced. [OBSERVE THE FOLLOWING WHEN REPLACING]

Replace with the same make and type or equivalent recommended by manufacturer.

Place battery in correct polarity.

Do not short the terminals.

Do not charge battery.

Do not dispose of battery in fire.

# I. SPECIFICATIONS

General	
Display	240 x 64 dot graphic LCD w/back light
Memory card slot	Compact Flash (The size of the compact flash card the MPC1000 can handle is from 32MB to 2GB)
Dimensions (W x H x D)	330 x 75.5 x 228.2(Max 234.6)
Weight	3.45kg
Power requirement	19W
Sound generator	
Sampling rate	44.1kHz
Memory capacity	16MB standard (11.5MB for sound memory), expandable to 128MB
Recording time	136sec. (16MB, MONO), 24m28sec. (128MB, MONO)
Memory expansion slot	1 x for optional EXM128
Data format	16-bit linear
Polyphony	32
Dynamic filtering	2 x 2-pole filter per voice
Filter type	Low pass, Band pass, High pass
Preset sound memory	5MB
Number of programs	24
Effects	
Effects	2 stereo effects and Master effect
Effect type	Chorus, Flanger, Bit grunger, 4 band EQ, Compressor, Phase shifter, Tremolo, Flying pan, Reverb Master effect: 4 band EQ, Compressor
Sequencer	
Maximum events	100,000 notes
Resolution	96 parts per 1/4-note
Sequences	99
Tracks per sequence	64
MIDI output channels	32 (16 channels x 2 outputs)
Song mode	20 songs, 250 steps per song
Drum pad	16 (velocity and pressure sensitive)
Drum pad banks	4
Sync mode	MIDI clock

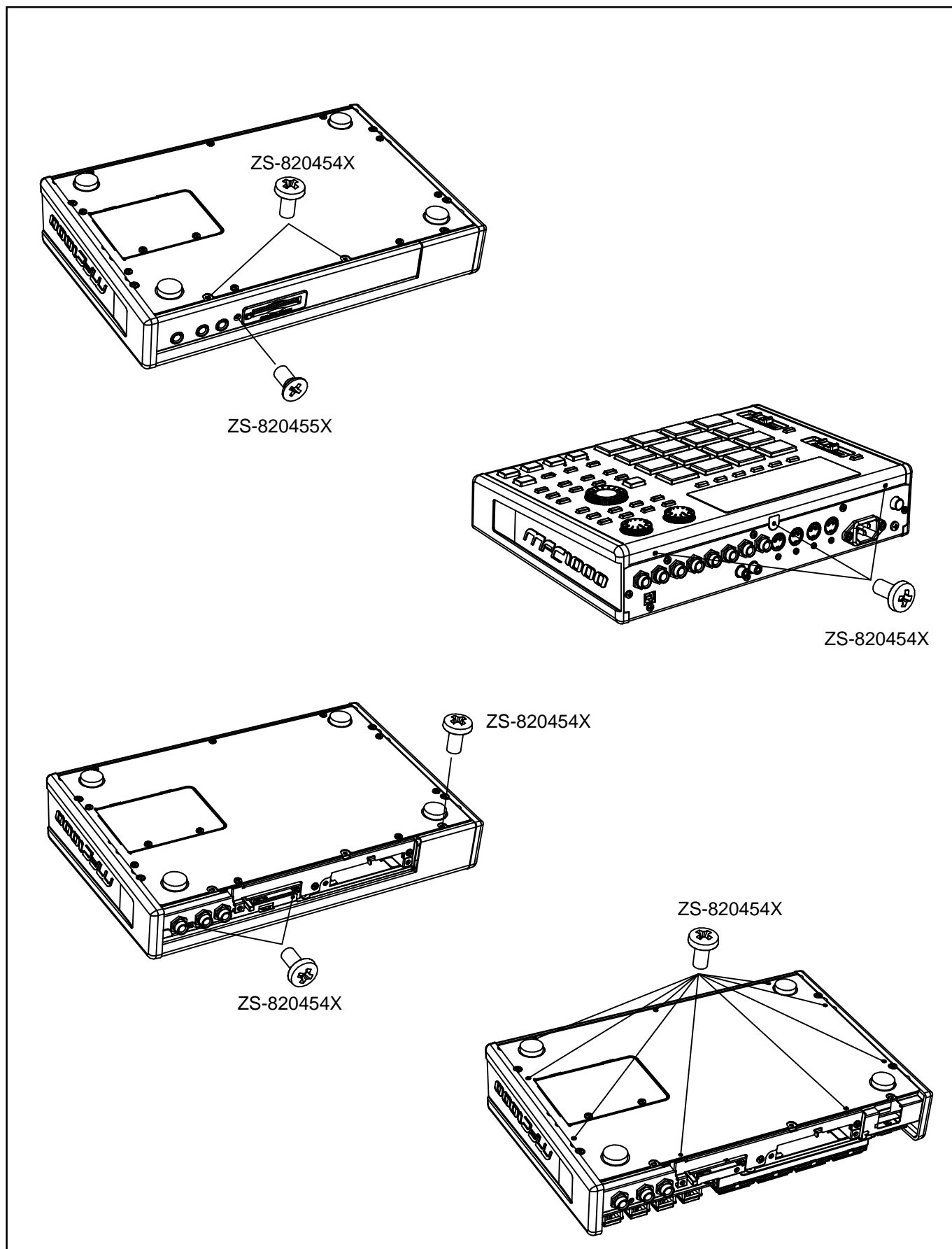
\* The specifications are subject to change without the prior notice.

Inputs / Outputs	
Record input (L and R)	1/4-inch stereo phone x 2, balanced -40dBu, input impedance 11k ohms; Max. Input level +10dBu
Digital input	RCA-pin x 1 S/PDIF
Stereo output (L and R)	1/4-inch phone x 2 unbalanced +11dBu, output impedance 1k Ohms, Max. output level +17dBu
4 individual outputs	1/4-inch phone x 4 unbalanced +11dBu, output impedance 1k Ohms, Max. output level +17dBu
Phones output	1/4-inch stereo phone x 1, 200mW / 100 ohms
Digital output	RCA-pin x 1 S/PDIF
MIDI inputs	5-pin DIN x 2
MIDI outputs	5-pin DIN x 2
USB	Slave connector x 1, USB MASS STORAGE CLASS support. (You need Windows 2000/Me/XP or later version, or MacOS 9.x/10.x or later version. )
Footswitches	1/4-inch phone x 2
Standard accessories	
Standard accessories	32MB Compact Flash card, Power cable, Operator's manual
Options	
EXM128	128MB expansion memory card
Data Compatibility (THRU Computer)	
MPC2000XL	SEQ, WAV, PGM (Most parameters of PGM file can be loaded.)
MPC4000	SEQ, WAV , PGM (DRUM program only. Only note assign and tune are loaded.)
MPC3000	No compatibility
Z4/Z8	WAV only
S5000/6000	WAV only
S1000/3000	No compatibility

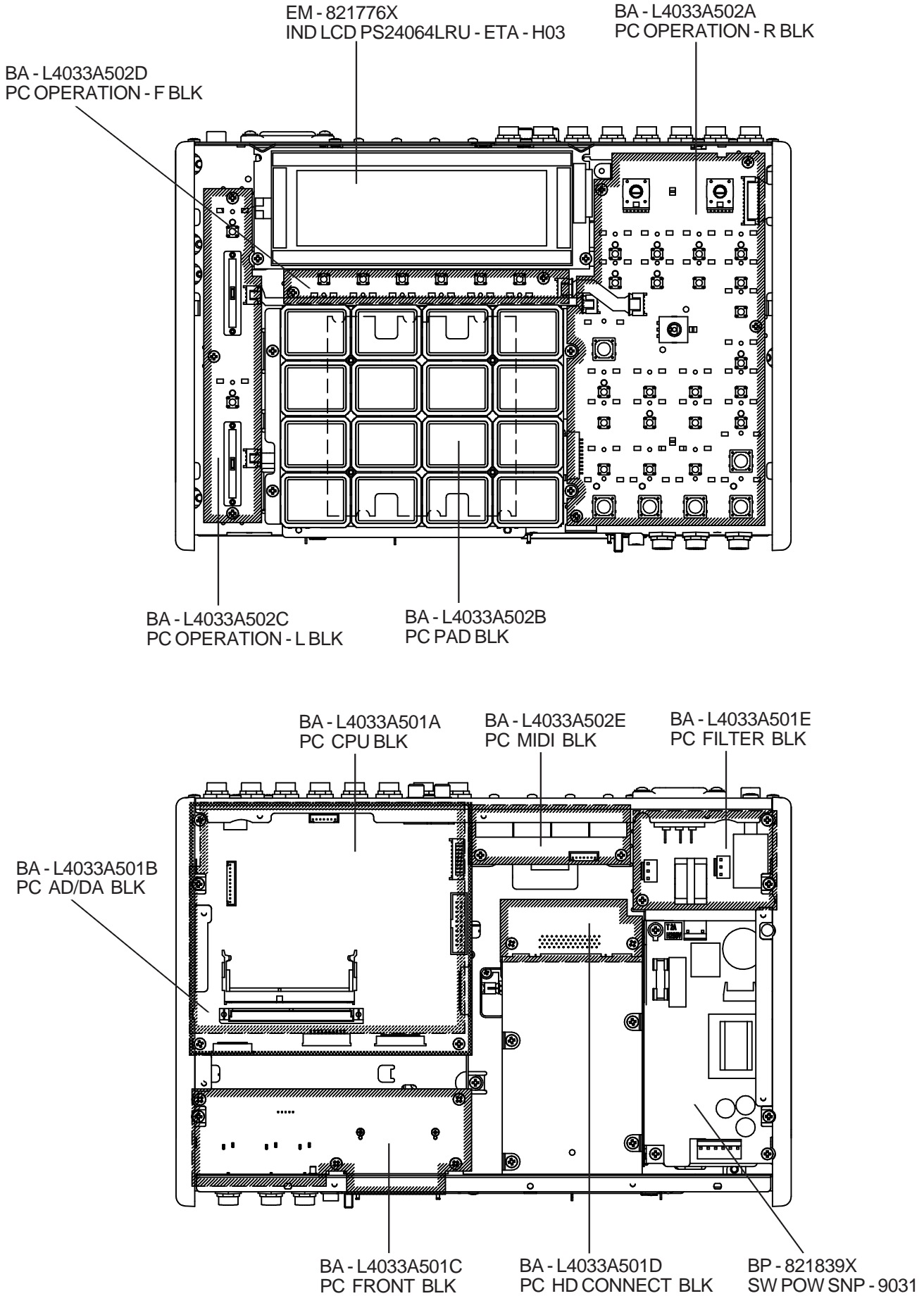
\* The specifications are subject to change without the prior notice.

## II. DISASSEMBLY

In case of trouble, etc., necessitating dismantling, please dismantle in the order shown in the illustrations. Reassemble in the reverse order.



### III. PRINCIPAL PARTS LOCATION



## IV. SUPPLEMENTARY INFORMATION

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[Update procedure]

===How to copy the OS binary file to a CF card using a MPC1000 and a computer===

Below procedure will utilize the MPC1000 as a Compact flash writer.

Required Equipment :

Compact Flash (CF), Computer with USB mass storage class support (Windows XP/ME/2000 or Mac OSX, OS9.x)

1. Copy/Download the OS data to a computer's hard disc drive and extract it's data.
2. Insert a Compact Flash card into the MPC1000.
3. Turn on the power of the MPC1000.
4. Go to Load mode, then press USB (F4).
5. Connect a USB cable between the computer and the MPC1000. (Display will change from "Status=Not Connected" to "Status=Connected")
6. The CF in the MPC1000 will be mounted as a drive on the computer.
7. Copy the OS binary file to the CF in the MPC1000.
8. Disconnect the USB cable. (MPC1000 will not accept any user input while a USB cable is connected)

Note: The OS data can also be copied to a Compact Flash card using any other Compact Flash card reader/writer. In this case it is not necessary to connect the MPC1000 to a computer.

====How to update the MPC1000====

MPC1000 is updated using a Compact Flash card containing OS data.

1. Insert a CF containing OS data into the MPC1000.
2. Turn on the power of the MPC1000 while pressing down the "Window" button.
3. To start the update process, press the "REC" button. After the update process is finished the MPC1000 will re-boot automatically.

Note: The MPC1000 can not be updated from a computer via USB directly – updating is only possible using a CF card.

====Hidden model==== ( Note: V1.06 is not supported.)

The MPC1000 has the following hidden modes, which can be accessed by certain input sequences or holding down a key while powering on the unit. Currently these modes are not supported in OS Version 1.06.

1. [Owner Name]  
Mode > Other > F3/FOOTSW > F6 > Enter owner name in the startup screen, "Owner Name" will be displayed.
2. [Initialize parameter]  
Hold down the ERASE button while powering on the unit.
3. [Memory Check]  
Hold down the PLAY button while powering on the unit.
4. [Demo mode ]  
Hold down the Bank "D" button while powering on the unit.  
In this mode "Internal memory" on the Save page can not be selected . In the startup screen "Demo" will be displayed instead of "MPC1000". Once demo mode has been activated it will remain active even if power is turned off and on again.  
To turn off the Demo mode, hold down the Bank "D" button while powering on the unit.

**[Test program]**

Test programs on the MPC1000 can be run either using a Test OS or a JIG PC Flash Rom.

**[Running the test Program using a Test OS]**

A test program can be installed on the MPC1000 by updating it with a Test OS. The Test OS must be copied to a CF card from which it will be written to the Flash ROM of the MPC1000. The installation procedure is the same as for a normal OS update. For a description of the test mode functions, refer to the "MPC1000 Test Program list".

Note: Once the Test OS is installed, the unit will always start up using the Test OS, until the regular OS is re-installed.

**[Running the test Program using a JIG PC Flash ROM MPC1K (AJ - 771312J)]**

The PC Flash ROM is used during repair for the testing jig and boot block recovery.

To access the test program on the PC Flash ROM MPC1K follow this procedure:

1. Turn off the MPC1000 and open the unit.
2. Insert the PC Flash MPC1K ROM into J110 on the CPU board.
3. Turn on the MPC1000 to start up the Test OS from the PC Flash ROM.

By Pressing Keys correspond 35 boxes change to negative.(#1)
JOG,FADER1,FADER2,input,value,displayed
Each Pad No., and input value displayed. Plural input displayed "Error"
All dot of LCD change to Black. Contrast adjusting by JOG
All LEDs light
(#2)When press Keys with LED, LED light while pressing switches. (#1 Press F8 twice = EXIT)
SDRAM simple check
SDRAM all area READ/WRITE check
CF card simple check
Type of CF card display
CF card all area READ/WRITE check
For development
Delete CF card data
HDD simple check
Type of HDD displayed
HDD all area READ/WRITE check
For development
Delete HDD data
No function
Write Test OS to Flash ROM
Data (OS/Library) transport via USB
No function
No function
AD inputting signal output to all OUTPUT.
SPDIF inputting signal output to all OUTPUT.(#3)
FULL bit signal output to all OUTPUT.
(#3)AD-L->MAIN-L,1,3 AD-R->MAIN-R,2,4
Start Loop back Test, MIDI OUT A-> MIDI IN 1, MIDI OUT B-> MIDI IN 2

F1 SIMPL	F1 P_OS
F2 FULL	F2 USB
F3 EXIT	F3 LIBC
F4 DECT	F4 LIBH
F5 SECTR	F5 EXIT
F6 BACUP	F6
F7 ERASE	
F8 EXIT	
F1 SIMPL	
F2 DECT	
F3 SECTR	
F4 BACUP	
F5 ERASE	
F6 EXIT	
"SDRAM TEST"	
"CF CARD TEST"	
"HDD TEST"	
"FLASH WRITING"	

F1 -KEY-	F1 SDRAM	
F2 -JOG-		
F3 -PAD-		
F4 -LCD-		
F5 -LED-		
F6 EXIT		
"PANEL TEST"		
"MEMORY TEST"		
F1 -AD-		
F2 SPDIF		
F3 TONE		
F4 -		
F5 -		
F6 EXIT		
F1 START		
F2 -		
F3 -		
F4 -		
F5 -		
F6 EXIT		
"AD selector" "SPDIF selector" "test tone"		
"OUTA> IN 1:OK OUTB > IN2 FAILED (Each connection result displayed)		
"FSW1 : ON FSW2 : OFF" (Foot SW status displayed)		

MPC1000 TEST OS	F1 PANEL				
	F2 MEMORY				
	F3 AUDIO				
	F4 MIDI				
	F5 F.SW				
	F6 -				
Starting Display					



# V. PARTS LIST

## ATTENTION

1. When placing an order for parts, be sure to list the Part No., Model No. and the description of each part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
2. Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in Parts List or Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

## HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs.
2. Parts not shown in the Parts List will not in principle be supplied.
3. How to read the Parts List.

### 1. PC MAIN BOARD BLK

Ref. No.	Part No.	Description
D5	ED-431276C	D SCHOT 1S30-J T05
D110	ED-431276C	D SCHOT 1S30-J T05
⋮		
⋮		
IC5	EI-811073J	ICTRC-6593
<u>IC10</u>	<u>EI-811068J</u>	IC HD74HC157FP

### 2. FINAL ASSEMBLY BLK

Ref. No.	Part No.	Description
1.	SA-349332	FOOT
2.	ZS-344754C	ST PAN30x06STL CMT
⋮		
⋮		
44.	SP-417333J	COVER TOP
45.	ZS-418385J	BT BID30X06STL BNI EATRH LOCK
46-A	EW-380905J	AC CORD 250S KP300 KS16A H B J [J]
46-B	EW-368420J1	AC CORD 200SKP30KS B AC [A]
<u>46-C</u>	<u>EW-410608J</u>	AC CORD 250 KP4819D KS31A B E [E,V]

Symbols for primary destination  
 [A] U.S.A.      [J] Japan  
 [B] England    [V] Germany  
 [E] Europe      [x1] Japan  
 [X4] Universal Area

## WARNING

INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

## AVERTISSEMENT

IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

## 1. PC BOARD BLK

Ref. No.	Part No.	Description
1	BA - L4033A020A	PC(##) MAIN BLK MPC1000
2	BA - L4033A030A	PC(##) OPERATION BLK MPC1000

PC(##) MAIN BLK CONSISTS OF FOLLOWING P.C. BOARDS.

1	BA - L4033A501A	PC CPU BLK
2	BA - L4033A501B	PC AD/DA BLK
3	BA - L4033A501C	PC FRONT BLK
4	BA - L4033A501D	PC HD CONNECT BLK
5	BA - L4033A501E	PC FILTER BLK

PC(##) OPERATION BLK CONSISTS OF FOLLOWING P.C. BOARDS.

1	BA - L4033A502A	PC OPERATION-R BLK
2	BA - L4033A502B	PC PAD BLK
3	BA - L4033A502C	PC OPERATION-L BLK
4	BA - L4033A502D	PC OPERATION-F BLK
5	BA - L4033A502E	PC MIDI BLK

## 2. PC CPU BLK

Ref. No.	Part No.	Description
D1	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D2	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D3	ED - 812338J	D ZENER C.UDZ4.7BTE-17 T08E
D4	ED - 812338J	D ZENER C.UDZ4.7BTE-17 T08E
D5	ED - 812338J	D ZENER C.UDZ4.7BTE-17 T08E
D6	ED - 812338J	D ZENER C.UDZ4.7BTE-17 T08E
IC1	EI - 821832X	IC HD6417727F160 QFTY
IC2	EI - 821835X	IC MBM29LV651UE90TN
IC3	EI - 821837X	IC GAL20V8B-15QP L4033A
IC4	EI - 821838X	IC GAL20V8B-15QP L4033B
IC5	EI - 812979J	IC HD74LVC245ATELL FPELT16E
IC6	EI - 812979J	IC HD74LVC245ATELL FPELT16E
IC7	EI - 812979J	IC HD74LVC245ATELL FPELT16E
IC8	EI - 812979J	IC HD74LVC245ATELL FPELT16E
IC9	EI - 812979J	IC HD74LVC245ATELL FPELT16E
IC10	EI - 812979J	IC HD74LVC245ATELL FPELT16E
IC11	EI - 820795X	IC HD74LVC14TELL FPELT12E
IC12	EI - 820062J	IC HD74HCT541FP FPELT24
IC13	EI - 821833X	IC HD74LVCC3245ATELL FPELT16E
IC14	EI - 821827X	IC NJU7002M FPT1T08
IC15	EI - 821836X	IC SI9706DY
IC16	EI - 821831X	IC DS1811R-10
IC17	EI - 821834X	IC HY57V641620HGT-H
IC18	EI - 821834X	IC HY57V641620HGT-H
IC19	EI - 821889X	IC HD74LV1G32ACME FPT08E
IC20	EI - 821901X	IC GAL16V8D-15QP L4033C
J1	EJ - 821236X	SOCKET CONNECTER YKF45-0020 4P
J2	EJ - 820754X	PIN J YKC21-3079 P2P
J3	EJ - 821781X	SOCKET DMM3-RS144A2B-13 144P
J101	EJ - 821888X	SOCKET 32FLZ-SM1-R-TB 32P
J102	EJ - 821842X	SOCKET 20FMZ-ST 20P
J103	EJ - 821779X	SOCKET 42FLZ-SM1-R-TB 42P
J104	EJ - 821779X	SOCKET 42FLZ-SM1-R-TB 42P
J110	EJ - 419246J	SOCKET 128A-050S2A-S14A 50P
P105	EJ - 821841X	PLUG SCP20GS3 20P
PH1	ET - 821874X	DETECTOR HCPL-0701
PH2	ET - 821874X	DETECTOR HCPL-0701
SF1	EF - 810572J	FUSE C.ICP-S2.3 50V 2.3A T08E
TR1	ET - 821788X	TR FET CHIP 2SK3065T100 T12E
TR2	ET - 821788X	TR FET CHIP 2SK3065T100 T12E
TR3	ET - 821788X	TR FET CHIP 2SK3065T100 T12E
TR4	ET - 821788X	TR FET CHIP 2SK3065T100 T12E
TR5	ET - 821788X	TR FET CHIP 2SK3065T100 T12E
TR6	ET - 821789X	TR CHIP DTB113ZKT146 T08E
TR7	ET - 821789X	TR CHIP DTB113ZKT146 T08E
TR8	ET - 821789X	TR CHIP DTB113ZKT146 T08E
TR9	ET - 821789X	TR CHIP DTB113ZKT146 T08E
X1	EI - 821787X	OSC X'TAL C.DS0751SV 13.330MHZ
X2	EI - 820989X	OSC X'TAL C.DS0751SV 48.0000MHZ

## 3. PC AD/DA BLK

Ref. No.	Part No.	Description
D7	ED - 821790X	D SCHOT. RK44 40/3.0A
D901	ED - 821790X	D SCHOT. RK44 40/3.0A
D902	ED - 812354J	D ZENER C.RB081L-20 TE25T12E
D903	ED - 812338J	D ZENER C.UDZ4.7BTE-17 T08E
IC21	EI - 821826X	IC LM2575S-ADJ
IC201	EI - 812479J	IC NJM5532M FPT1T32P
IC202	EI - 812479J	IC NJM5532M FPT1T32P

Ref. No.	Part No.	Description
IC203	EI - 812479J	IC NJM5532M FPT1T32P
IC204	EI - 812479J	IC NJM5532M FPT1T32P
IC301	EI - 812479J	IC NJM5532M FPT1T32P
IC302	EI - 812479J	IC NJM5532M FPT1T32P
IC401	EI - 812479J	IC NJM5532M FPT1T32P
IC402	EI - 812479J	IC NJM5532M FPT1T32P
IC501	EI - 812479J	IC NJM5532M FPT1T32P
IC502	EI - 812479J	IC NJM5532M FPT1T32P
IC601	EI - 821828X	IC AD1839AS QFTY
IC602	EI - 821830X	IC CS8427-CS FP
IC603	EI - 438820J	IC TC74HCU04AF FPELT16E
IC901	EI - 821826X	IC LM2575S-ADJ
J101	EJ - 821888X	SOCKET 32FLZ-SM1-R-TB 32P
J201	EJ - 821778X	PHONE J YKB22-5326 NUT 6.3
J202	EJ - 821778X	PHONE J YKB22-5326 NUT 6.3
J301	EJ - 821386X	PHONE J YKB22-5264 NUT 6.3
J302	EJ - 821386X	PHONE J YKB22-5264 NUT 6.3
J401	EJ - 821386X	PHONE J YKB22-5264 NUT 6.3
J402	EJ - 821386X	PHONE J YKB22-5264 NUT 6.3
J501	EJ - 821386X	PHONE J YKB22-5264 NUT 6.3
J502	EJ - 821386X	PHONE J YKB22-5264 NUT 6.3
L1	EO - 821758X	COIL FIX 1 PE-52627
L901	EO - 821758X	COIL FIX 1 PE-52627
L902	EO - 822001X	COIL FIX 1 LHL10NB 220K
L903	EO - 822001X	COIL FIX 1 LHL10NB 220K
R904	△ ER - 307565	R FUSE H S10 ERD2FC 1/4W 6R8J
R905	△ ER - 307565	R FUSE H S10 ERD2FC 1/4W 6R8J
T601	BT - 810651J	TRANS PULSE CIT0705S-35101TFP
TR10	ET - 428249J	TR C.2SC2412K R,S T146T08E
TR301	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR302	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR401	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR402	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR501	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR502	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR601	ET - 429898J	TR C.DTA114EKA T146T08E
TR602	ET - 430868J	TR C.DTC114EKA T146T08E
TR603	ET - 428249J	TR C.2SC2412K R,S T146T08E
TR604	ET - 428248J	TR C.2SA1037AK R,S T146T08E
TR701	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR702	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
X601	EI - 821786X	OSC X'TAL C.DS0751SV 11.2896MHZ

## 4. PC FRONT BLK

Ref. No.	Part No.	Description
IC701	EI - 812705J	IC NJM4556AL
J103	EJ - 821779X	SOCKET 42FLZ-SM1-R-TB 42P
J207	EJ - 821782X	SOCKET CFMB50MTW1NL 50P
J208	EJ - 821386X	PHONE J YKB22-5264 NUT 6.3
J209	EJ - 821386X	PHONE J YKB22-5264 NUT 6.3
J210	EJ - 821386X	PHONE J YKB22-5264 NUT 6.3
R707	△ ER - 430691J	R OMF H S12 FS 1W 101J
R708	△ ER - 430691J	R OMF H S12 FS 1W 101J

## 5. PC HD CONNECT BLK

Ref. No.	Part No.	Description
J104	EJ - 821779X	SOCKET 42FLZ-SM1-R-TB 42P
P211	EJ - 821777X	PLUG DHB-PA50-R131N 50P

## 6. PC FILTER BLK

Ref. No.	Part No.	Description
C951	△ EC - 430824J	C MMY V CUT MKP3362 683M 275AC
C952	△ EC - 427562J	C MMY V CUT MKP3362 103M 275AC
C953	△ EC - 427562J	C MMY V CUT MKP3362 103M 275AC
L901	△ EO - 427223J	COIL LF HR-24-562
SW901	△ ES - 812750J	SW PUSH SDKEC 02-1

## 7. PC OPERATION-R BLK

Ref. No.	Part No.	Description
D301	ED - 812087J	D LED L-934SRD-G RED
D302	ED - 812087J	D LED L-934SRD-G RED
D303	ED - 812086J	D LED L-934SGD GREEN
D304	ED - 813021J	D LED L-934SYD YELLOW
D305	ED - 812087J	D LED L-934SRD-G RED
D306	ED - 812086J	D LED L-934SGD GREEN
D307	ED - 812086J	D LED L-934SGD GREEN
D308	ED - 812086J	D LED L-934SGD GREEN
D309	ED - 812086J	D LED L-934SGD GREEN
D310	ED - 812086J	D LED L-934SGD GREEN
D311	ED - 812086J	D LED L-934SGD GREEN
D312	ED - 812086J	D LED L-934SGD GREEN
D313	ED - 812086J	D LED L-934SGD GREEN
J102	EJ - 821842X	SOCKET 20FMZ-ST 20P
SW101	ES - 821759X	SW R.ENCORDER SIM-026MT R66 5214
SW301	ES - 415015J	SW TACT SKQEAD
SW302	ES - 415015J	SW TACT SKQEAD
SW303	ES - 415015J	SW TACT SKQEAD
SW304	ES - 415015J	SW TACT SKQEAD
SW305	ES - 349474	SW TACT SKHHAM004A
SW306	ES - 349474	SW TACT SKHHAM004A
SW307	ES - 349474	SW TACT SKHHAM004A
SW308	ES - 415015J	SW TACT SKQEAD
SW309	ES - 349474	SW TACT SKHHAM004A
SW310	ES - 349474	SW TACT SKHHAM004A
SW311	ES - 349474	SW TACT SKHHAM004A
SW312	ES - 349474	SW TACT SKHHAM004A
SW313	ES - 349474	SW TACT SKHHAM004A
SW314	ES - 349474	SW TACT SKHHAM004A
SW315	ES - 349474	SW TACT SKHHAM004A
SW316	ES - 349474	SW TACT SKHHAM004A
SW317	ES - 415015J	SW TACT SKQEAD
SW318	ES - 349474	SW TACT SKHHAM004A
SW319	ES - 349474	SW TACT SKHHAM004A
SW320	ES - 349474	SW TACT SKHHAM004A
SW321	ES - 349474	SW TACT SKHHAM004A
SW322	ES - 349474	SW TACT SKHHAM004A
SW323	ES - 349474	SW TACT SKHHAM004A
SW324	ES - 349474	SW TACT SKHHAM004A
SW325	ES - 349474	SW TACT SKHHAM004A
SW326	ES - 349474	SW TACT SKHHAM004A
SW327	ES - 349474	SW TACT SKHHAM004A
VR301	EV - 821784X	VR ROTARY RK14K1230 L=15 C203X2 [REC GAIN]
VR302	EV - 821783X	VR ROTARY RK14K1230A1E L=15 A103X2 [MAIN VOLUME]

## 8. PC PAD BLK

Ref. No.	Part No.	Description
IC301	EI - 821829X	IC CD74HCT4051M96
IC302	EI - 821829X	IC CD74HCT4051M96

## 9. PC OPERATION-L BLK

Ref. No.	Part No.	Description
D0314	ED - 812086J	D LED L-934SGD GREEN
D0315	ED - 812086J	D LED L-934SGD GREEN
SW328	ES - 349474	SW TACT SKHHAM004A
SW329	ES - 349474	SW TACT SKHHAM004A
VR303	EV - 821785X	VRSLIDE RS3011119018 B103
VR304	EV - 821785X	VRSLIDE RS3011119018 B103

## 10. PC OPERATION-F BLK

Ref. No.	Part No.	Description
SW330	ES - 349474	SW TACT SKHHAM004A
SW331	ES - 349474	SW TACT SKHHAM004A
SW332	ES - 349474	SW TACT SKHHAM004A
SW333	ES - 349474	SW TACT SKHHAM004A
SW334	ES - 349474	SW TACT SKHHAM004A
SW335	ES - 349474	SW TACT SKHHAM004A

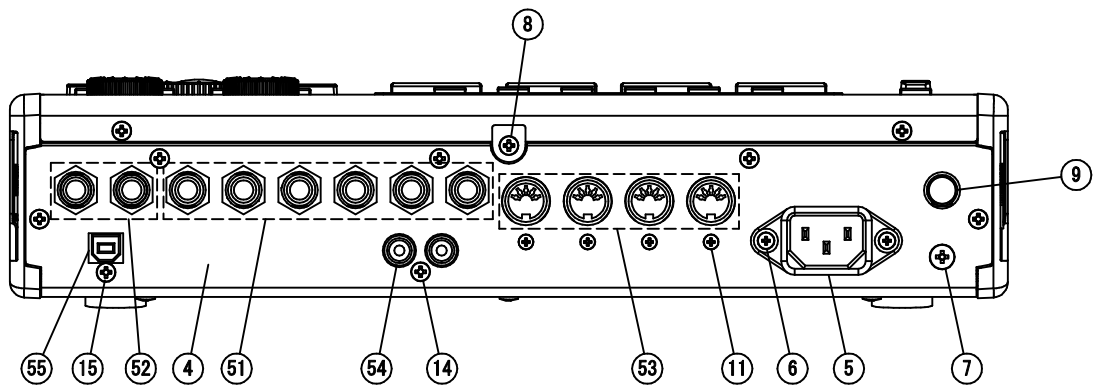
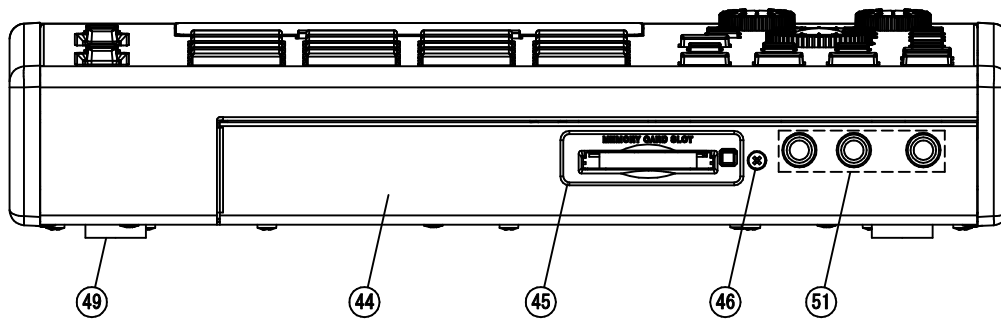
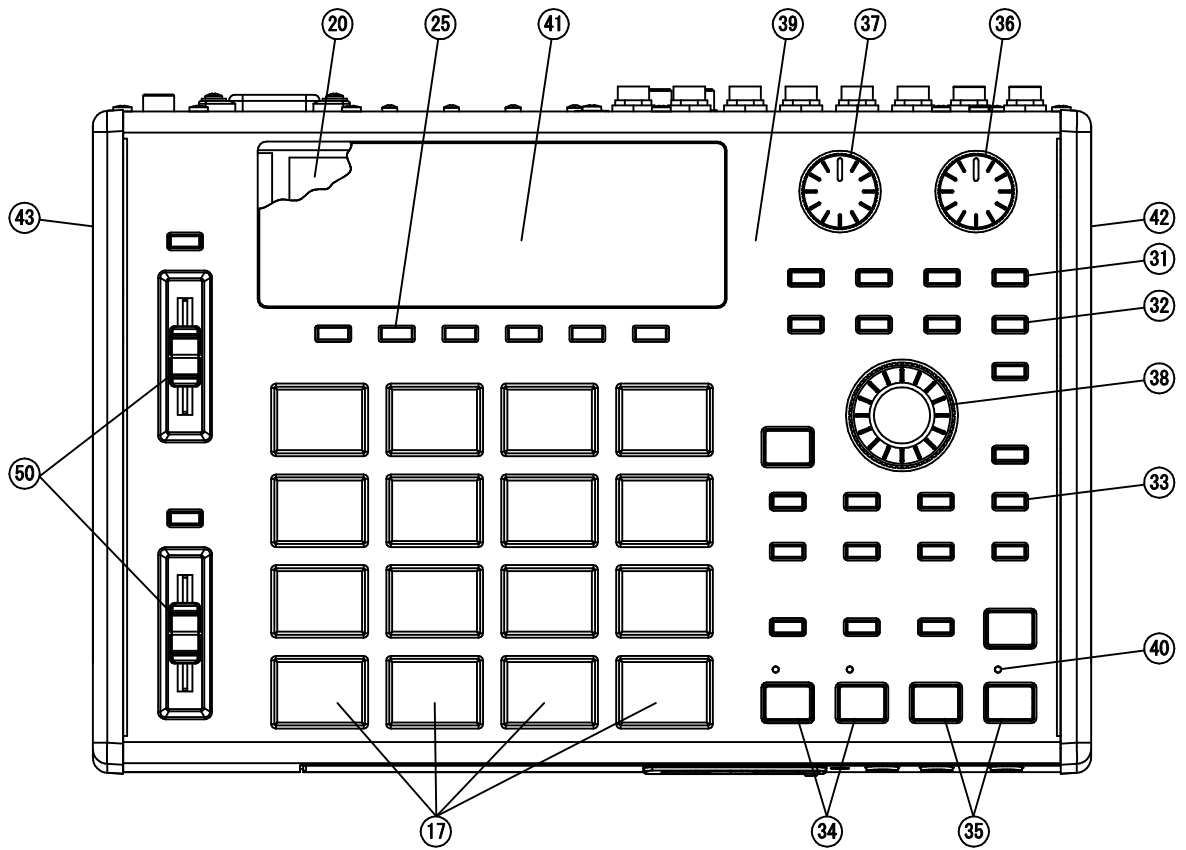
## 11. PC MIDI BLK

Ref. No.	Part No.	Description
J317	EJ - 427801J	DIN J TCS5084-45-4151 5P
J318	EJ - 427801J	DIN J TCS5084-45-4151 5P
J319	EJ - 427801J	DIN J TCS5084-45-4151 5P
J320	EJ - 427801J	DIN J TCS5084-45-4151 5P

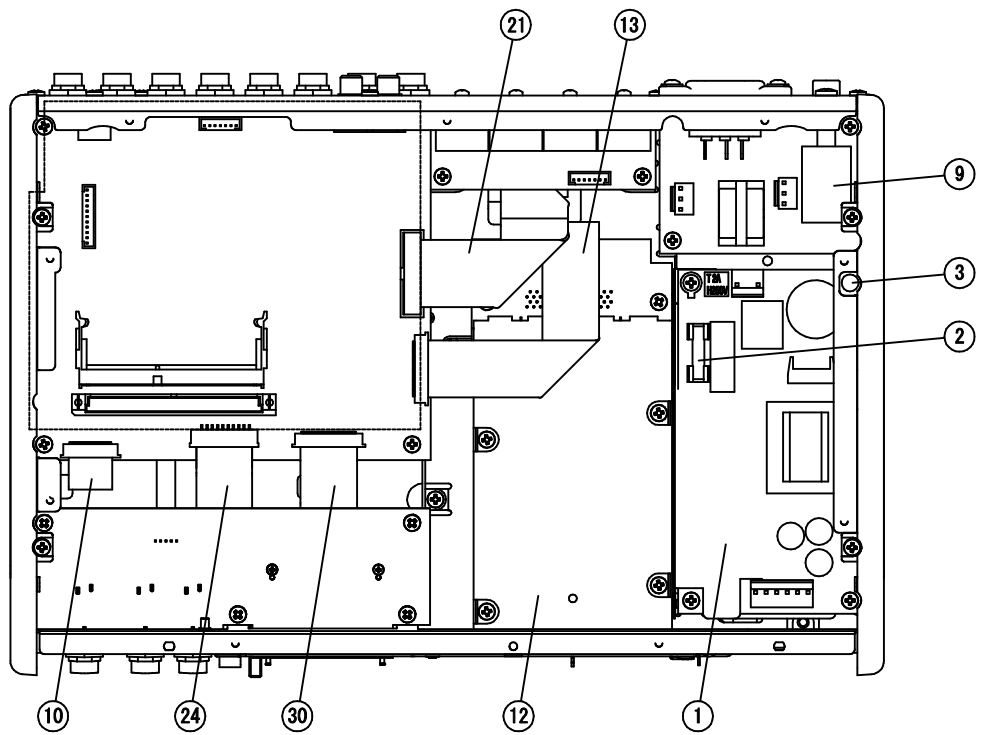
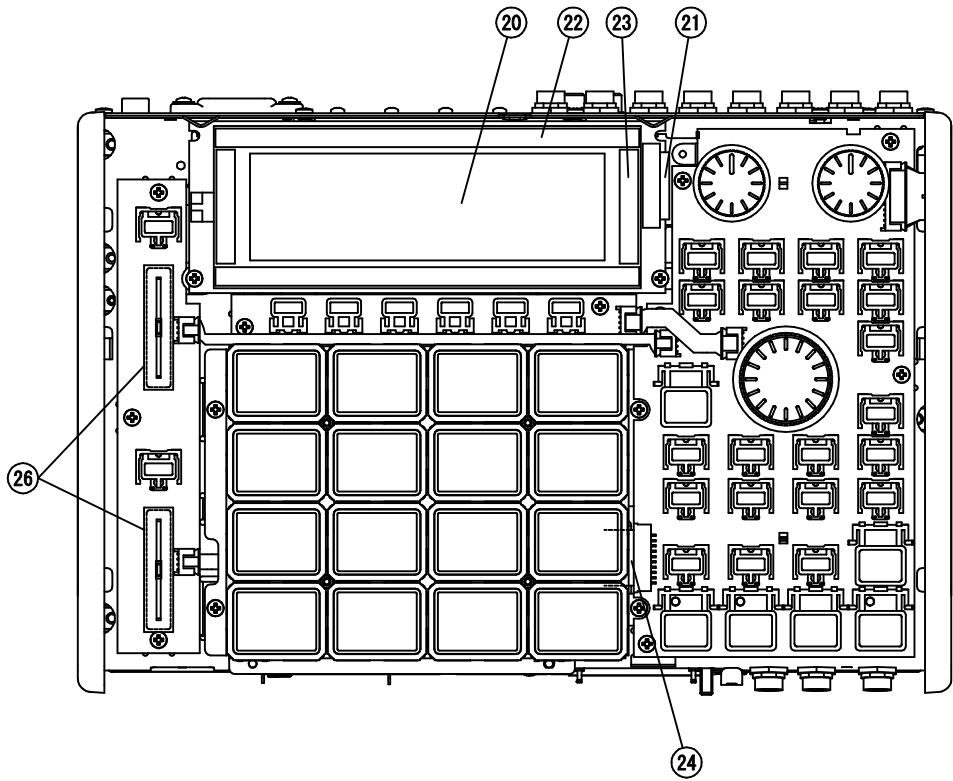
## 12. FINAL ASSEMBLY BLK

Ref. No.	Part No.	Description
1	△ BP - 821839X	SW POW SNP-9031
2	△ EF - 822002X	FUSE 181 T 250V 2A
3	ZW - 302909	RV NYL30X035 BL
4	SP - 821814X	PANEL REAR MPC1000
5	△ EJ - 358632J2	SOCKET INLET SOT-16 3P
6	ZS - 820481X	BT PAN30X08STL BZN C080
7	ZS - 411232	BID40X10STL BNI
8	ZS - 820454X	BT BID30X06STL BNI
9	SB - 810525J	BUTTON POWER
9	△ ES - 812750J	SW PUSH SDKEC 02-1
10	EW - 821886X	CORD FFC P0.50 L90 32P
11	ZS - 812478J	PAN26X06STL BNI
12	SP - 821794X	HOLDER OPTION HD
13	EW - 821775X	CORD FFC P0.50 L180 42P
14	ZS - 331182	BT BID30X08STL BNI
15	ZS - 355511	BID30X06STL BNI
16	ZS - 821572X	PAN30X04STL CMT SW
17	BA - 821854X	SENSOR PAD L4033
18	EW - 821770X	WIRE ASSY L4033 W301 2P
19	ZS - 821573X	PAN25X04STL CMT SW
20	EM - 821776X	IND LCD PS24064LRU-ETA-H03
21	EW - 821760X	WIRE ASSY L4033 W105 20P
22	SZ - 821800X	SHIELD LCD (1)
23	SZ - 821801X	SHIELD LCD (2)
24	EW - 821887X	CORD FFC P1.00 L210 20P
25	SB - 821820X	BUTTON PUSH(B)-6 [WHITE]
26	SE - 821858X	MASK SLIDE
26	EV - 821785X	VRSLIDE RS3011119018 B103
27	ZW - 618884	N20STL CMT 1
28	ZS - 608106	PAN20X06STL CMT
29	EJ - 821861X	SOCKET ACCE EJECTOR CFE250M
30	EW - 821885X	CORD FFC P0.50 L80 42P
31	SB - 821806X	BUTTON PUSH S (A) [CLEAR]
32	SB - 821807X	BUTTON PUSH S (B) [WHITE]
33	SB - 821808X	BUTTON PUSH S (C) [PURPLE]
34	SB - 430327J	BUTTON PUSH B(2) [RED]
35	SB - 821550X	BUTTON PUSH B(5) [WHITE]
36	SK - 821810X	KNOB VOLUME (A) [MAIN]
36	EV - 821783X	VR ROTARY RK14K1230A1E L=15 A103X2
37	SK - 821811X	KNOB VOLUME (B) [REC]
37	EV - 821784X	VR ROTARY RK14K1230 L=15 C203X2
38	SK - 821812X	KNOB JOG
38	ES - 821759X	SW R.ENCORDER SIM-026MT R66 5214
39	SP - 821803X	PANEL TOP MPC1000
40	SE - 810353J	LENS LED
41	SE - 821804X	WINDOW LCD
42	SP - 821815X	PANEL SIDE (R)
43	SP - 821816X	PANEL SIDE (L)
44	SE - 821805X	COVER HD
45	SP - 821819X	PANEL SLOT
46	ZS - 820455X	BT CTS30X06STL BNI
47	SP - 821798X	COVER BOTTOM
48	SP - 821799X	COVER MEMORY
49	SA - 812668J	FOOT B
50	SK - 821813X	KNOB SLIDE
50	EV - 821785X	VRSLIDE RS3011119018 B103
51	EJ - 821386X	PHONE J YKB22-5264 NUT 6.3
52	EJ - 821778X	PHONE J YKB22-5326 NUT 6.3
53	EJ - 427801J	DIN J TCS5084-45-4151 5P
54	EJ - 820754X	PIN J YKC21-3079 P2P
55	EJ - 821236X	SOCKET CONNECTER YKF45-0020 4P
56	△ EW - 380905J	AC CORD 250S KP300 KS16A H B [J]
56	△ EW - 368420J1	AC CORD200SKP30KS16 B AC [A]
56	△ EW - 403993J	AC CORD200SKP4819DKS31A B E [E,V]
56	△ EW - 419170J	AC CORD200S KP610 KS31A B [B]
57	△ EJ - 405424J	PLUG ADAPTOR KPR-25 [J]

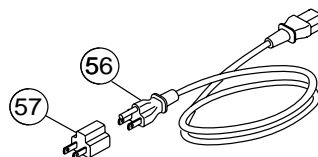
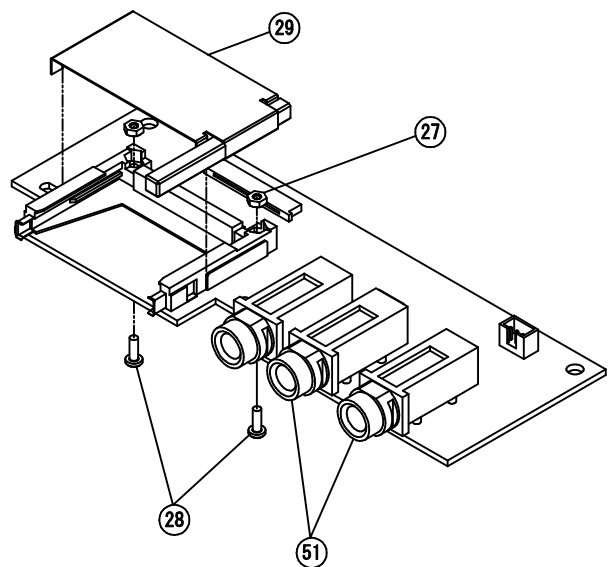
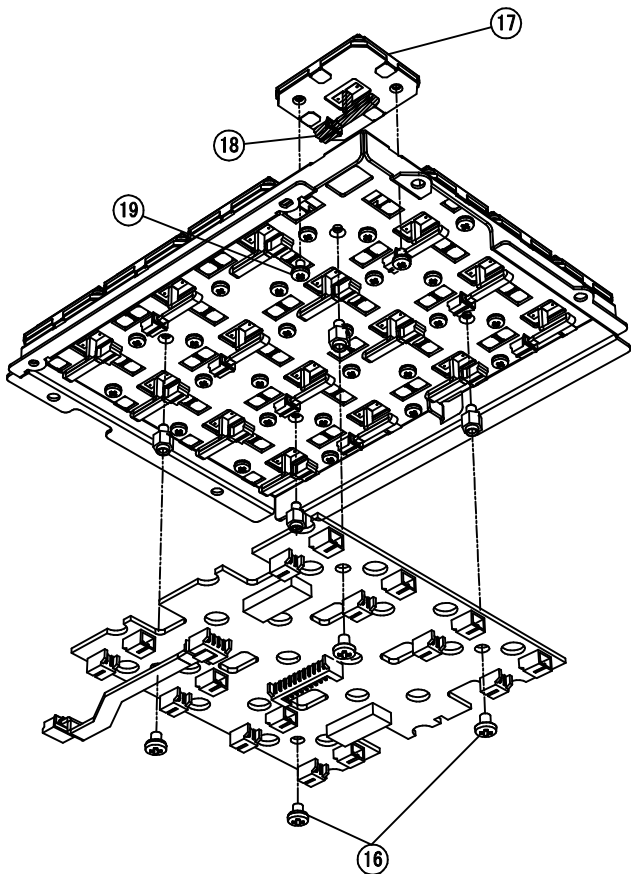
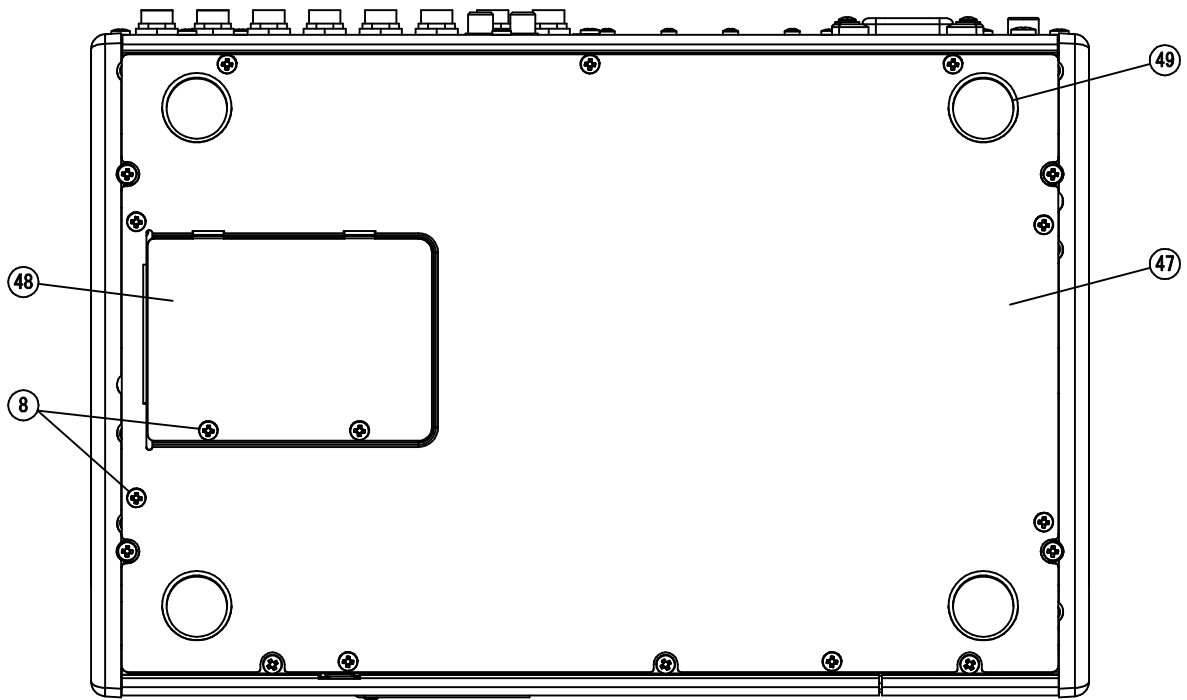
**FINAL ASSEMBLY BLOCK**



**FINAL ASSEMBLY BLOCK**

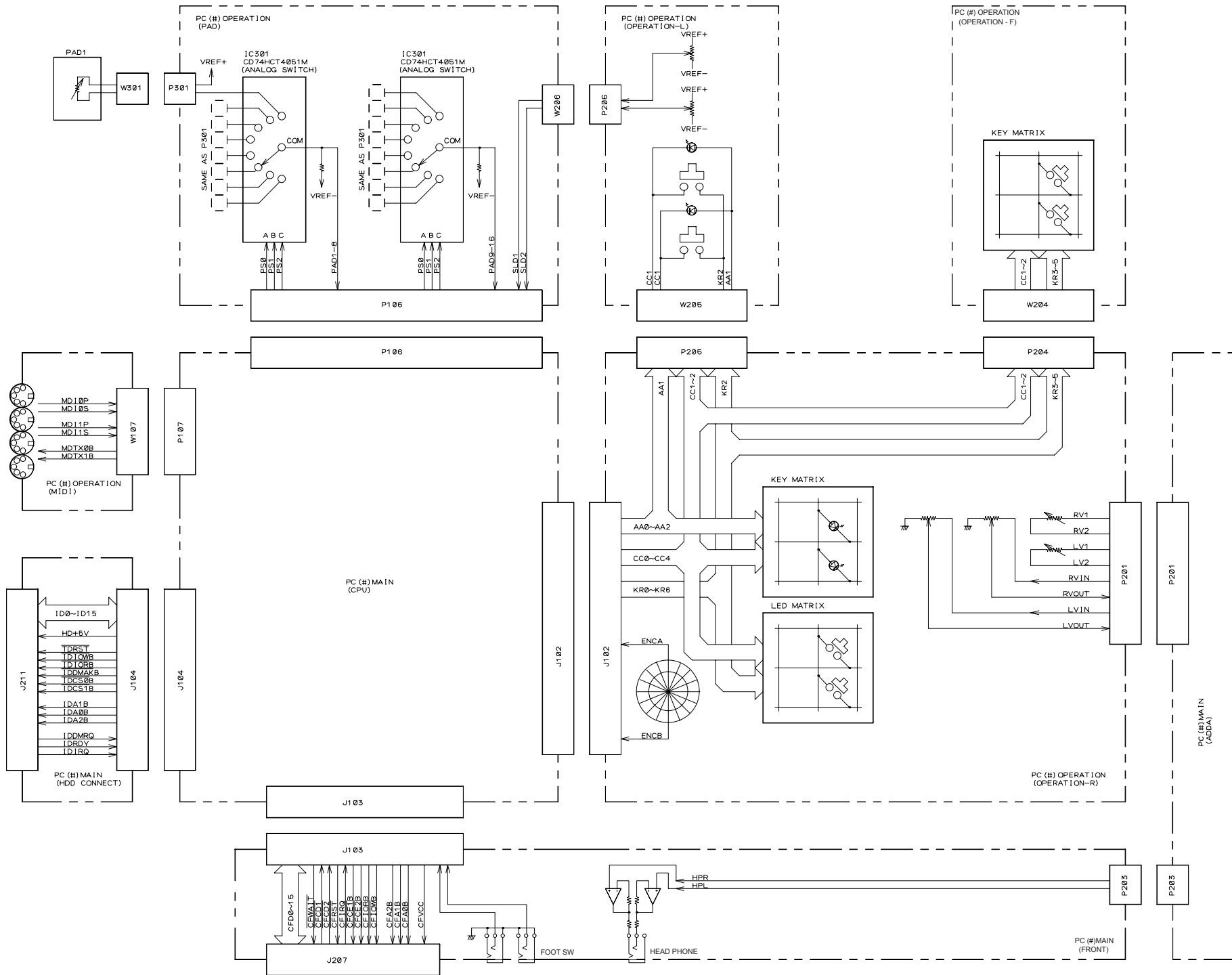


**FINAL ASSEMBLY BLOCK**

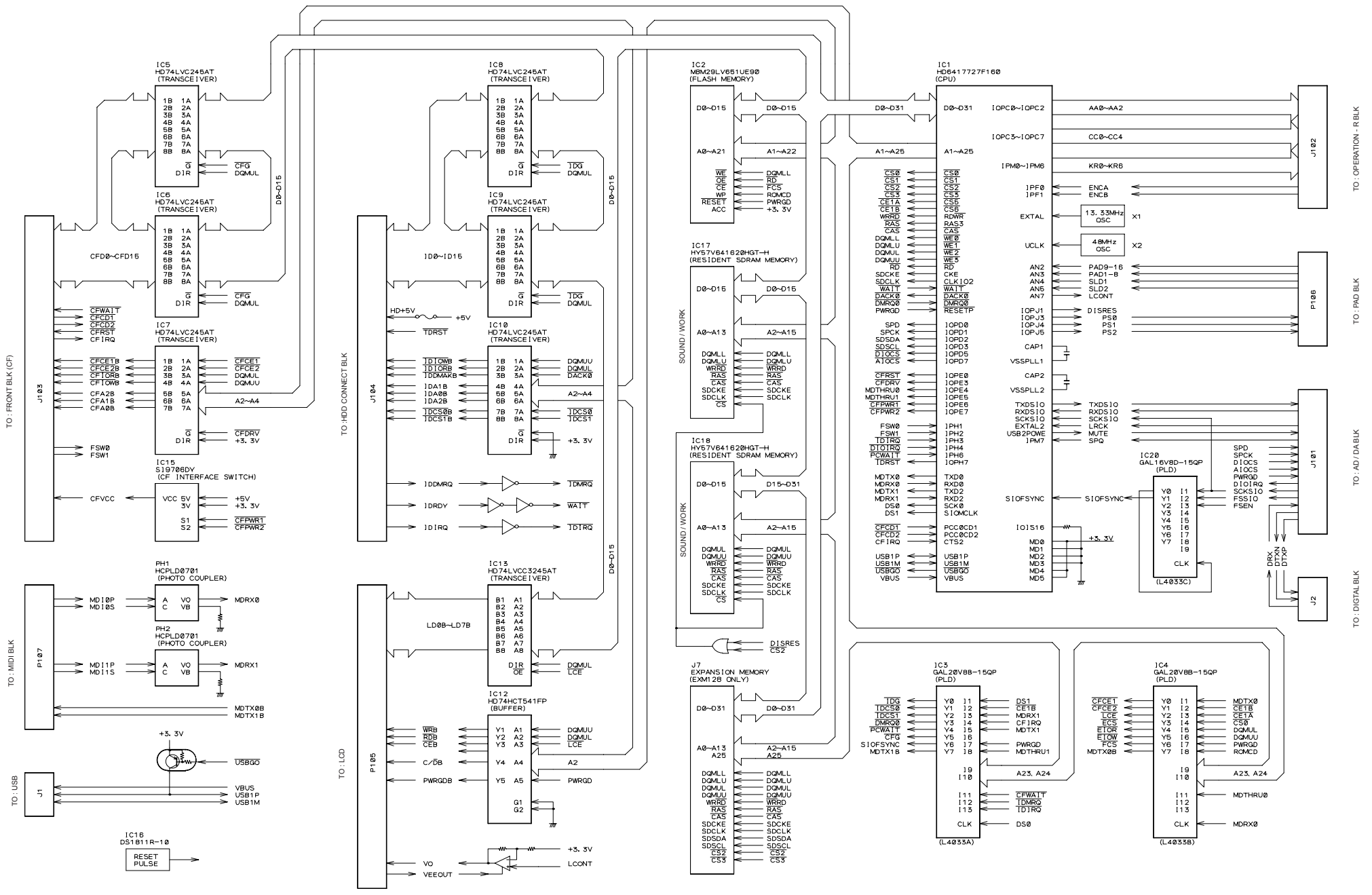


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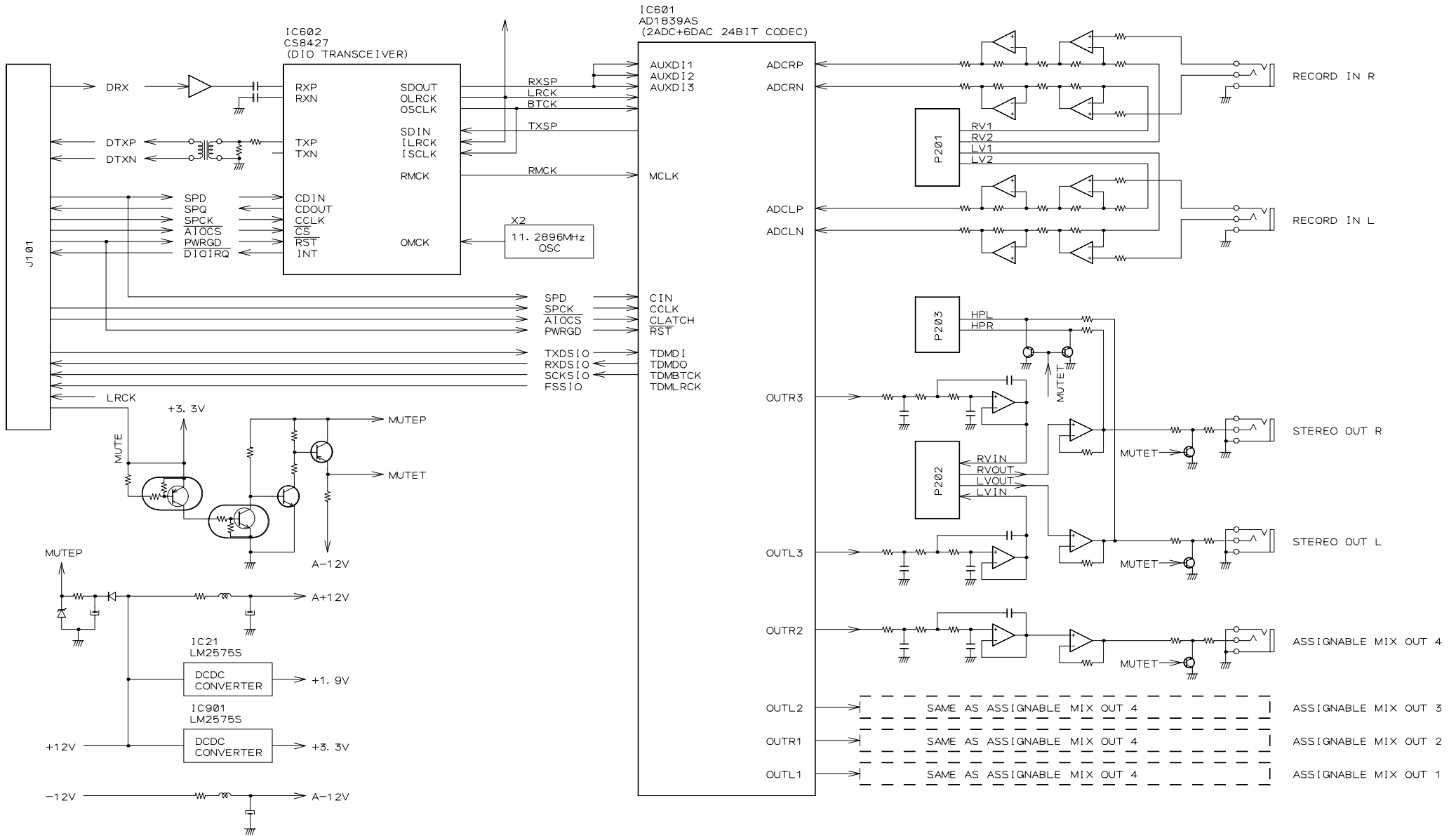


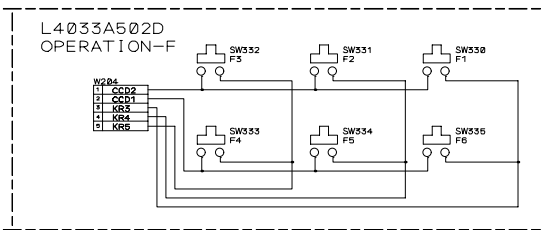
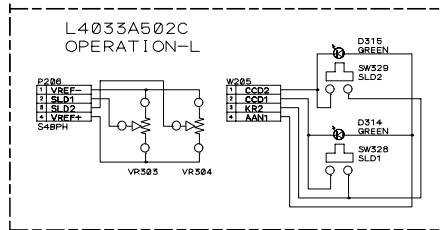
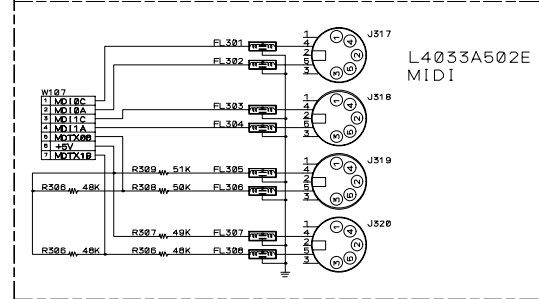
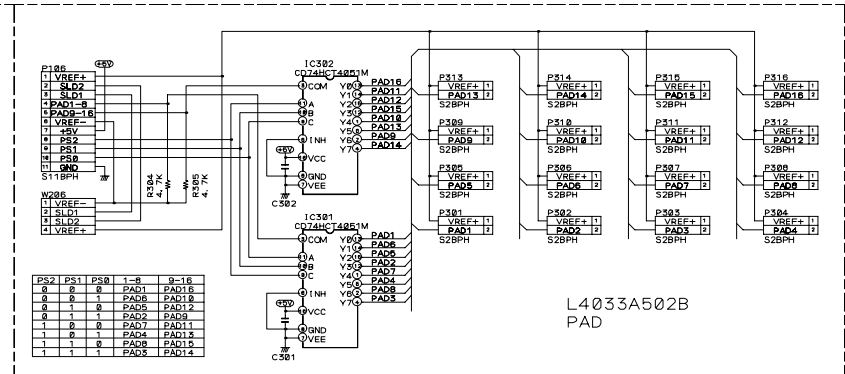
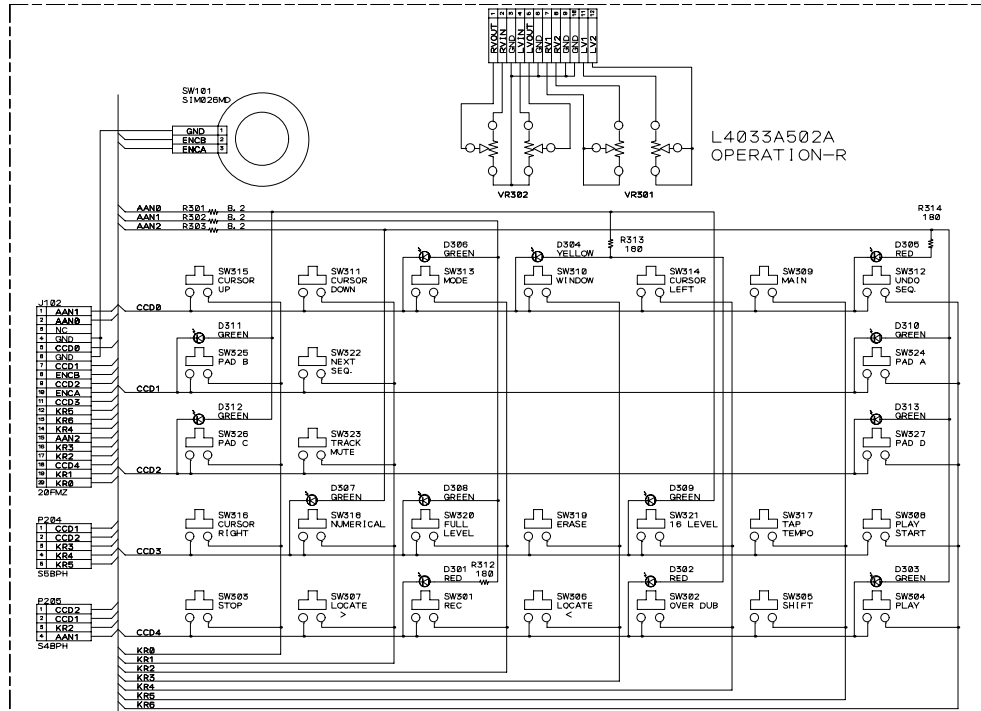
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TO: I/O BLK

TO: AD/DABLK

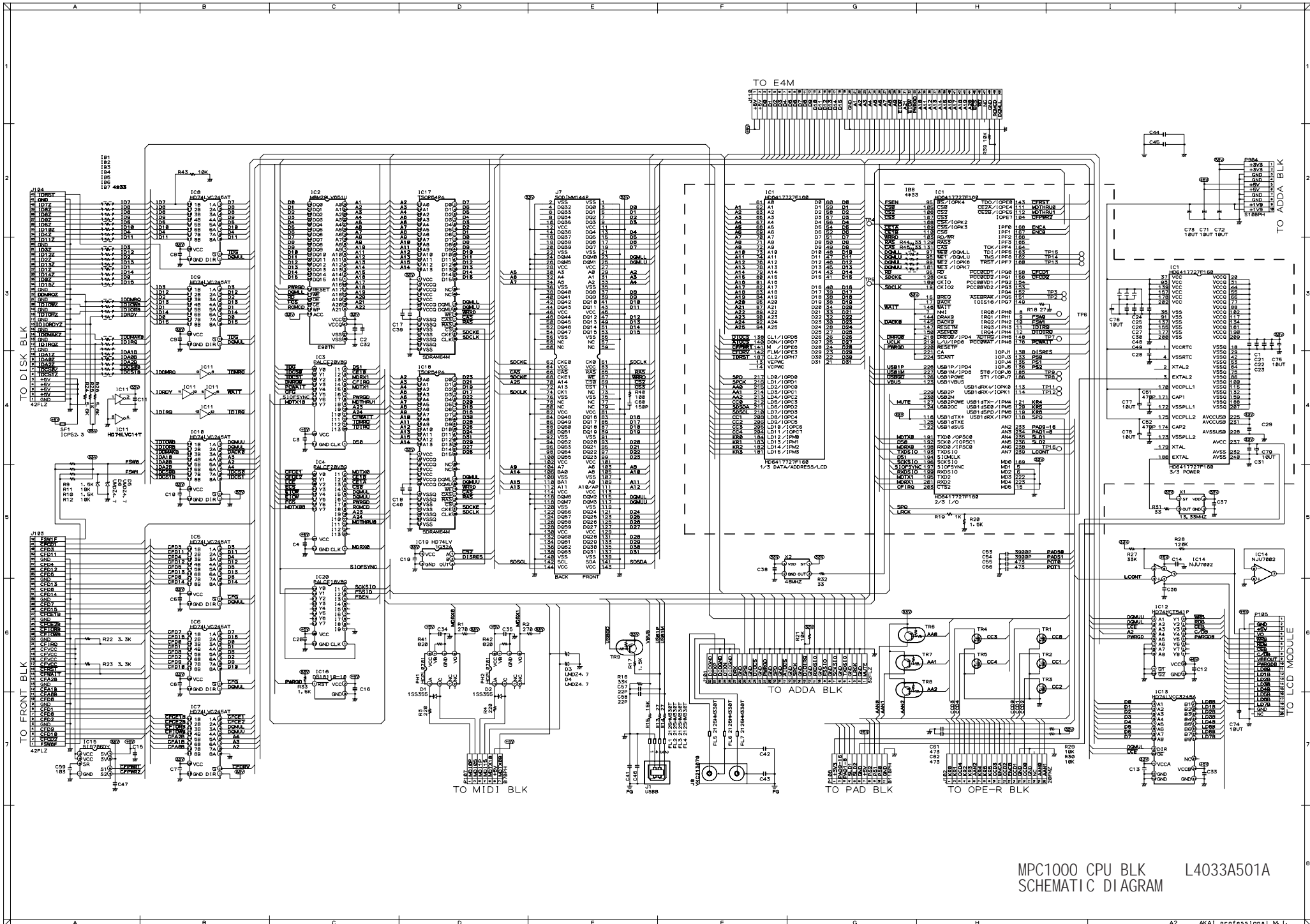
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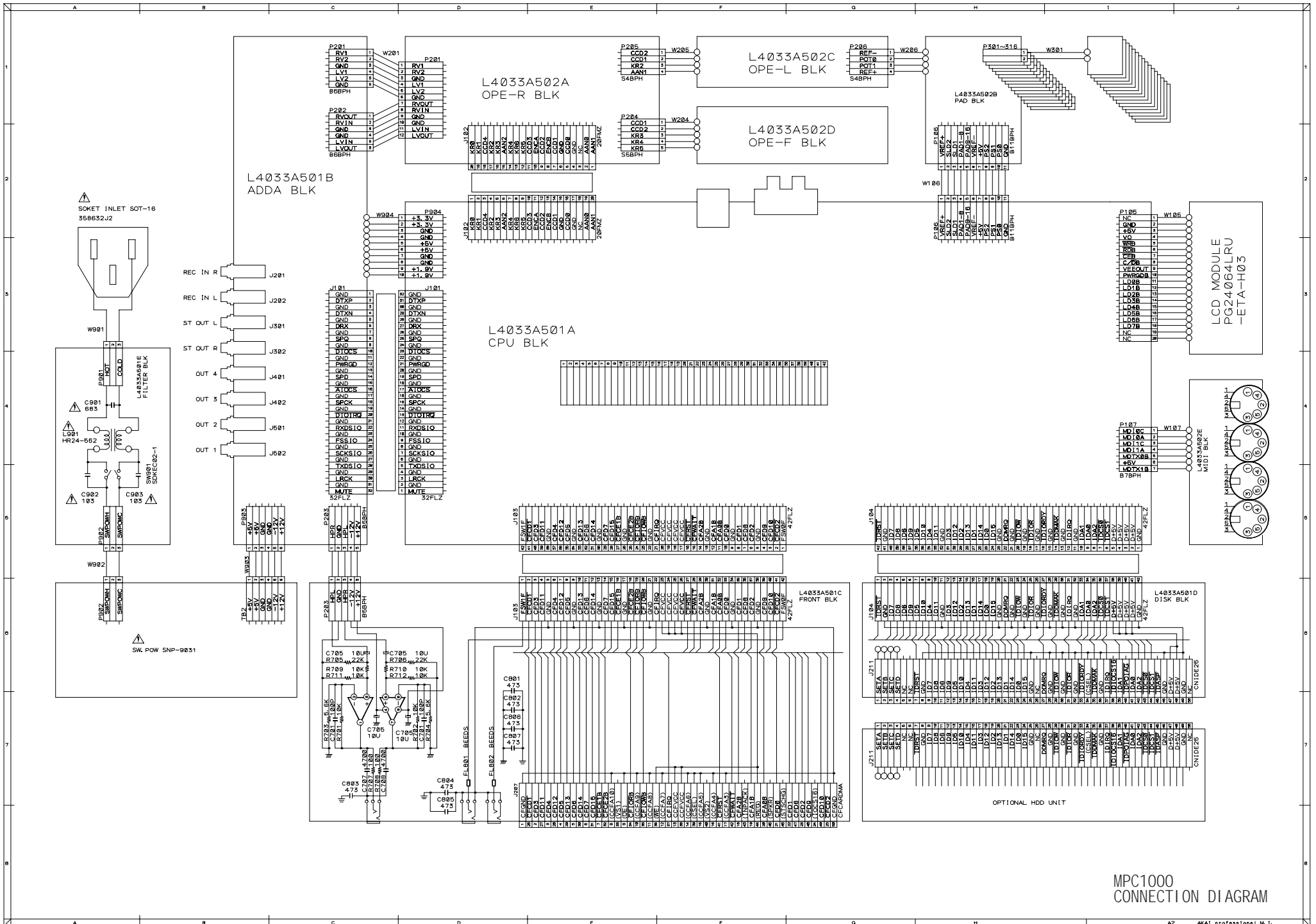


MPC1000 OPERATION-R BLK L4033A502A  
 PAD BLK L4033A502B  
 OPERATION-L BLK L4033A502C  
 OPERATION-F BLK L4033A502D  
 MIDI BLK L4033A502E

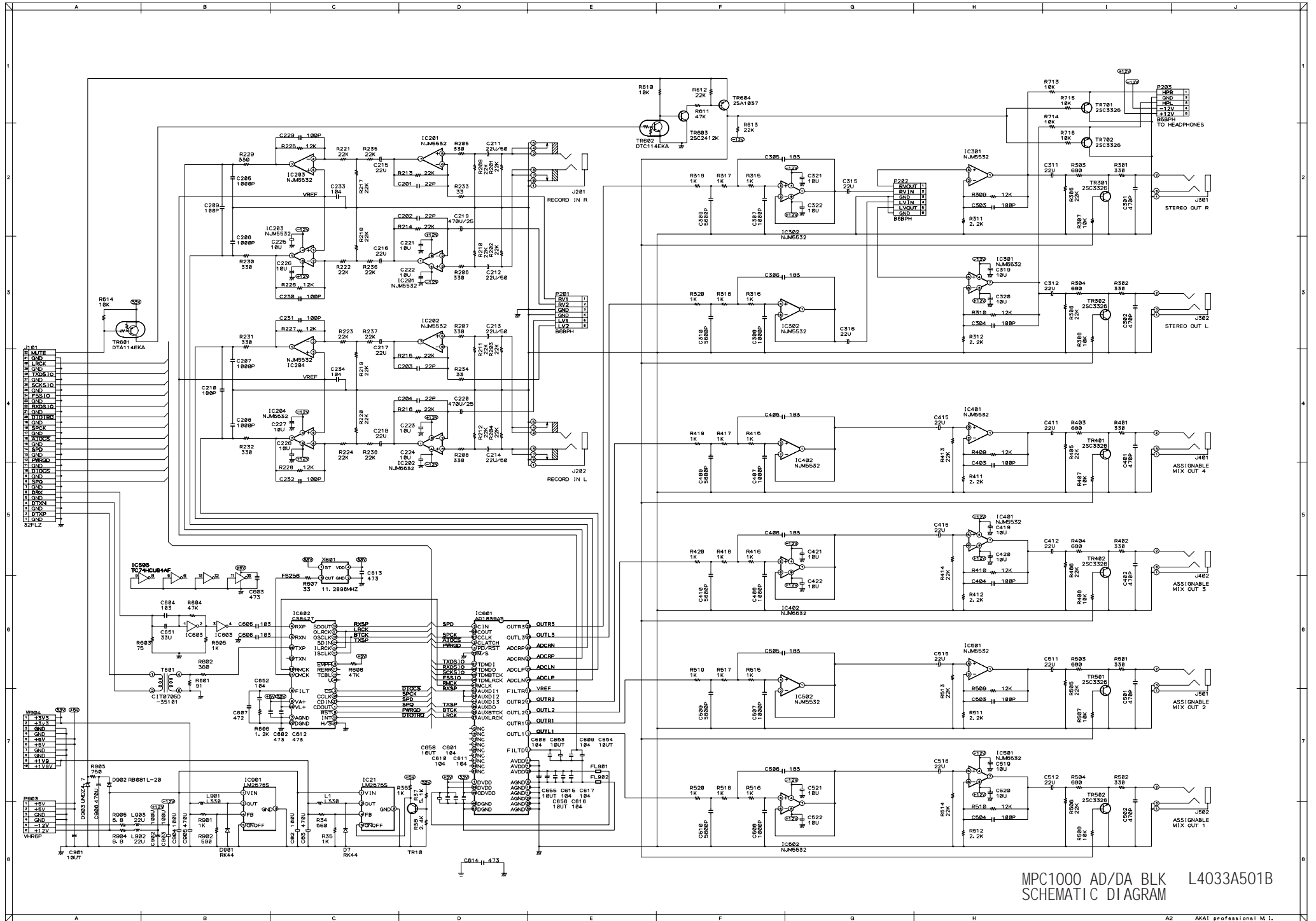
SCHEMATIC DIAGRAM



MPC1000 CPU BLK L4033A501A SCHEMATIC DIAGRAM



MPC1000  
CONNECTION DIAGRAM



MPC100 AD/DA BLK L403A501B  
SCHEMATIC DIAGRAM