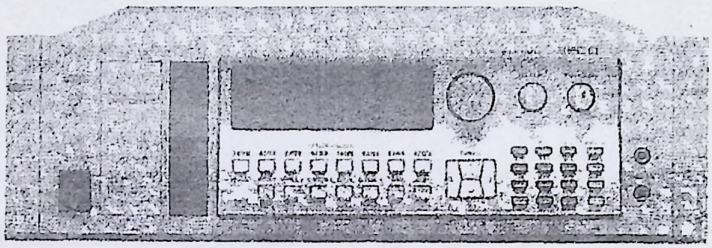
AKAI SERVICE MANUAL

S2000
S3000XL
S3200XL



Model S3200XL

MIDI STEREO DIGITAL SAMPLER

MODEL S2000

MODEL S3000XL

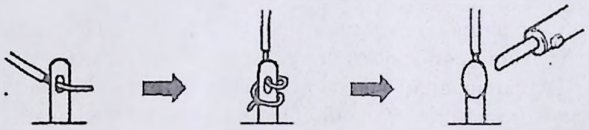
MODEL S3200XL

OPTIONAL BOARD

EB16, IB-208P

PRECAUTIONS DURING SERVICING

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: RF converters, tuner units, antenna selector switches, RF cables, 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 µF 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.

SYMBOLS FOR PRIMARY DESTINATION

Unit destinations are indicated with letters as shown below.

Symbols	Principal Destinations
A	U.S.A
B	U.K
C	Canada
E	Europe (except U.K)
J	Japan
S	Australia
V	Germany
U	Universal Area
Y*	Custom version

I. SPECIFICATIONS

1-1. Model S2000 and S3000XL

Sampling data format	16 bit linear encoding
Sampling rates	44.1 kHz (20 Hz - 20 kHz range), 22.05 kHz (20 Hz - 10 kHz range)
Sampling time	
S2000	22.28 seconds (mono/44.1 kHz), 11.14 seconds (stereo/44.1 kHz)
	44.56 seconds (mono/22.05 kHz), 22.28 seconds (stereo/22.05 kHz)
S3000XL	20.80 seconds (mono/44.1 kHz), 10.40 seconds (stereo/44.1 kHz)
	41.60 seconds (mono/22.05 kHz), 20.80 seconds (stereo/22.05 kHz)
Internal memory	2 Mbytes standard, expandable to 32 Mbytes using 72 pin SIMMs
Polyphony	32 voices
Maximum sample number	255
Maximum program number	254
Filter	Digital dynamic-low pass filter (–12 dB/octave with resonance)
Envelope genarators	2 (1 multi-stage)
L.F.O	2
Display	
S2000	Back lit 16 characters x 2 lines LCD
S3000XL	Back lit 320 characters/240 x 64 graphic LCD
Diskette drive	3.5-inch dual density drive (2HD, 2DD)
Connectors	
REC IN	1/4-inch phone jack (balanced) x 2
STEREO OUT	1/4-inch phone jack (unbalanced) x 2, 0 dBm 600 ohms
ASSIGNABLE OUTS	1/4-inch phone jack (balanced) x 8 (S2000 : IB-208P optional)
DIGITAL INPUT/OUTPUT	RCA pin jack (S2000 : IB-208P optional)
HEADPHONES	1/4 inch stereo phone jack x 1
MIDI	DIN 5P IN x 1, OUT x 1, THRU x 1
SCSI interface	25 pin D-SuB
REC GAIN volume	–6 dBm (min) ~ –44 dBm (max)
Power requirements	AC 100 V, 50/60 Hz for Japan
	AC 120 V, 60 Hz for U.S.A. and Canada
	AC 220 ~ 230 V, 50 Hz for Europe
	AC 240 V, 50 Hz for Australia
Power consumption	
S2000	35 W for Japan
	42 W for U.S.A and Canada
S3000XL	26 W for Japan
	42 W for U.S.A and Canada
Dimensions	483 (W) x 88.1 (H) x *408.8 (D) mm
	(EIA 2U size), (* S2000 : maximum 423.1 mm, S3000XL : maximum 432 mm)
Weight	
S2000	7.7 kg
S3000XL	7.1 kg

Standard accessories

AC power cable	1
Sound library disk	
S2000	1
S3000XL	2
Modular editing system disk (for Macintosh™)	1 MESA
MSF sequence disk	1
System disk (S2000 only)	1
Operator's manual	1

Optional accessories

IB-208P (8 parallel-out / Digital I/O board) (S2000 only)
EB16 (Multi effects processor board)
IB-304F (2nd LSI filter board)
FMX008 (8 Mbyte flash memory board)

* For improvement purposes, specifications and design are subject to change without notice.

1-2. Model S3200XL

Sampling data format	16 bit linear encoding
Sampling rates	44.1 kHz (20 Hz - 20 kHz range), 22.05 kHz (20 Hz - 10 kHz range)
Sampling time (unexpanded memory)	3 min 07 sec. (mono/44.1 kHz), 1 min 33 sec. (stereo/44.1 kHz) 6 min 14 sec (mono/22.05 kHz), 3 min 07 sec (stereo/22.05 kHz)
Internal memory	16 Mbytes standard, expandable to 32 Mbytes using 72 pin SIMMs
Polyphony	32 voices
Maximum sample number	255
Maximum program number	254
Filter	Digital dynamic-low pass filter (–12 dB/octave with resonance)
Envelope genarators	Digital envelope generator x 3 (2 multi-stage)
L.F.O	Multi wave Low Frequency Oscillator x 2
Display	Back lit 320 characters/240 x 64 graphic LCD
Diskette drive	3.5-inch dual density drive (2HD,2DD)
Connectors	
REC IN	XLR (balanced) x 2, 1/4-inch phone jack (balanced) x 2
STEREO OUT	XLR (balanced) x 2 (5.0 dBm/600 ohms), 1/4-inch phone jack (unbalanced) x 2 (5.0 dBm)
ASSIGNABLE OUTS	1/4-inch phone jack (unbalanced) x 8 (7.5 dBm)
HEADPHONES	1/4 inch stereo phone jack x 1
FOOTSWITCH	1/4 inch phone jack
MIDI	DIN 5P IN x 1, OUT x 1, THRU x 1
SCSI interface	25 pin D-SuB
AES/EBU digital IN/OUT	1/4-inch phone jack (balanced) x 2 and Optical input/output
SMPTE time code IN/OUT	1/4-inch phone jack (balanced) x 2
REC GAIN	HI: –56 dBm, MID: –37 dBm, LO: –15 dBm
Power requirements	AC 100 V, 50/60 Hz for Japan AC 120 V, 60 Hz for U.S.A. and Canada AC 220 ~ 230 V, 50 Hz for Europe AC 240 V, 50 Hz for Australia
Power consumption	38 W for Japan 45 W for U.S.A and Canada
Dimensions	483 (W) x 133 (H) x *410 (D) mm (EIA 3U size), (* : maximum 429 mm)
Weight	8.8 kg

Standard accessories

AC power cable	1
Sound library disk	2
SMF sequence disk	1
Modular editing system disk (for Macintosh™)	1
Operator's manual	1

Optional accessories

FMX008 (8 Mbyte flash memory board)

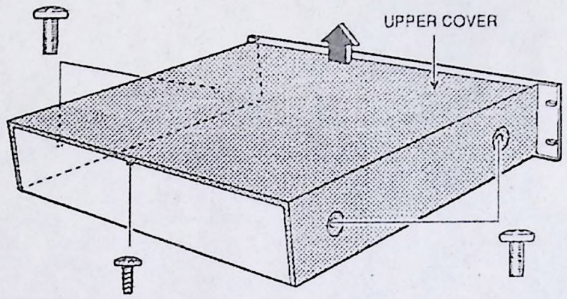
* For improvement purposes, specifications and design are subject to change without notice.

II. DISASSEMBLY

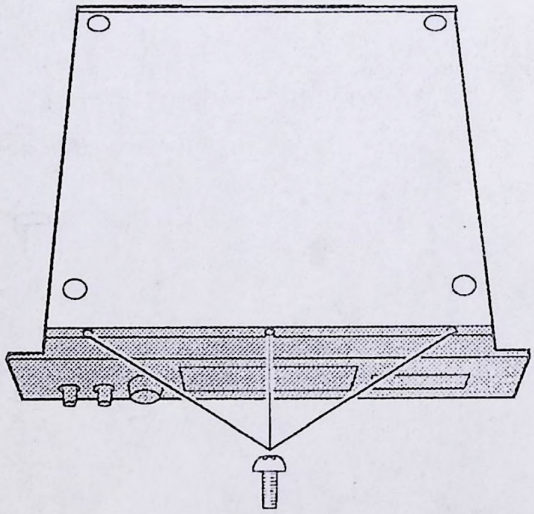
In case of trouble, etc., necessitating dismantling, please dismantle in the order shown in the illustrations.
Reassemble in the reverse order.

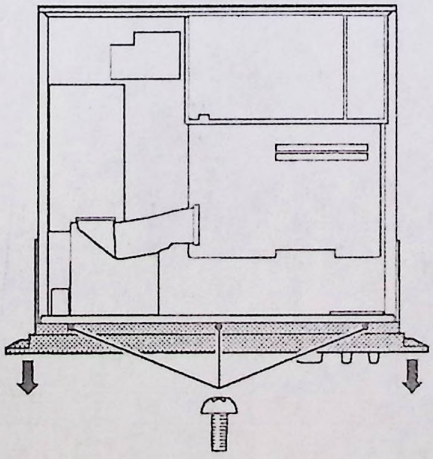
2-1. Model S2000 and S3000XL

1. Removal of the UPPER COVER



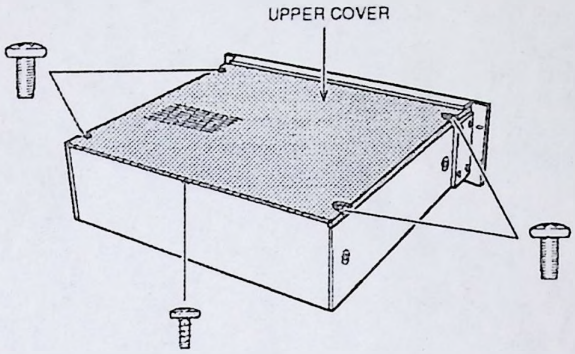
2. Removal of the FRONT PANEL BLK



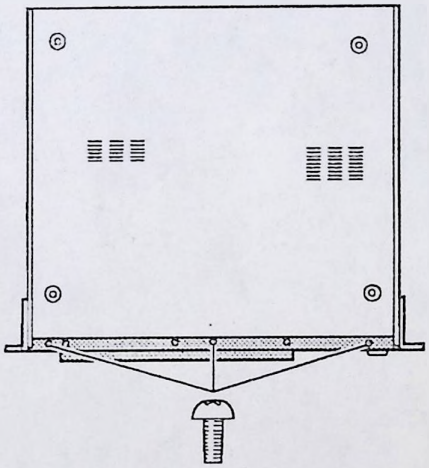


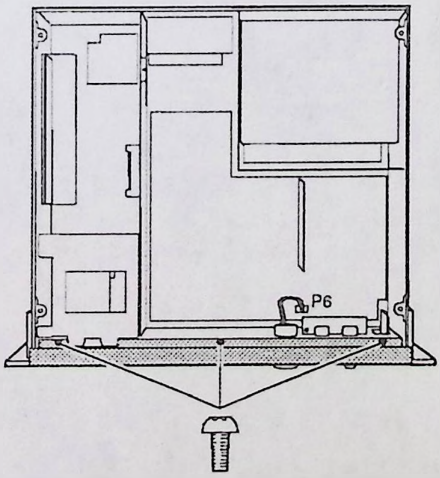
2-2. Model S3200XL

1. Removal of the UPPER COVER



2. Removal of the FRONT PANEL BLK





* Disconnect the P6 connector on the MAIN PCB before removal.

III. PRINCIPAL PARTS LOCATION

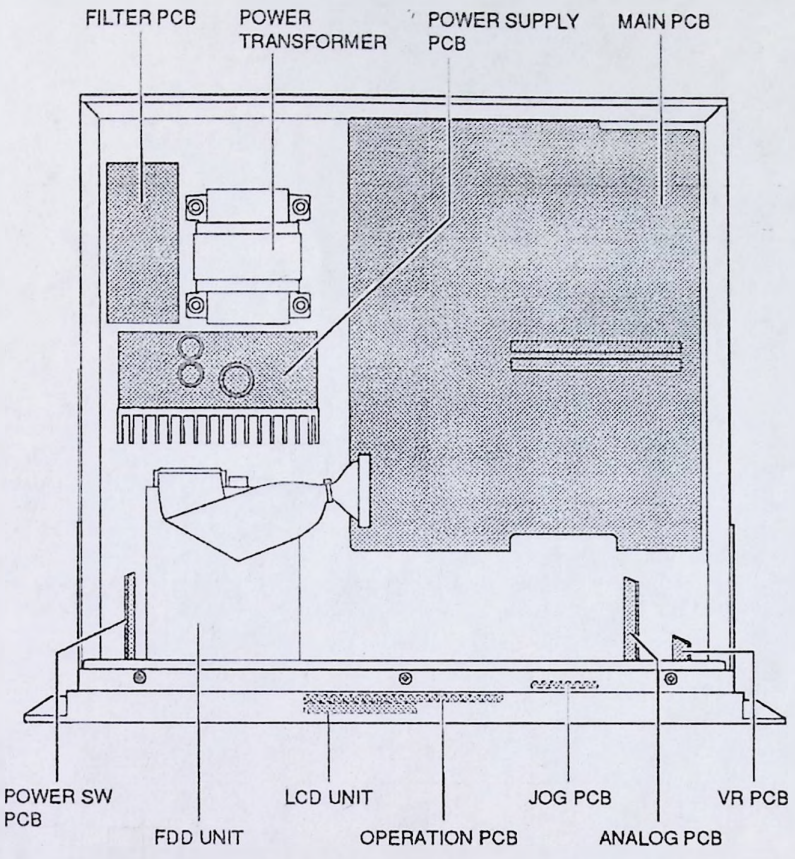


Fig. 3-1 Model S2000

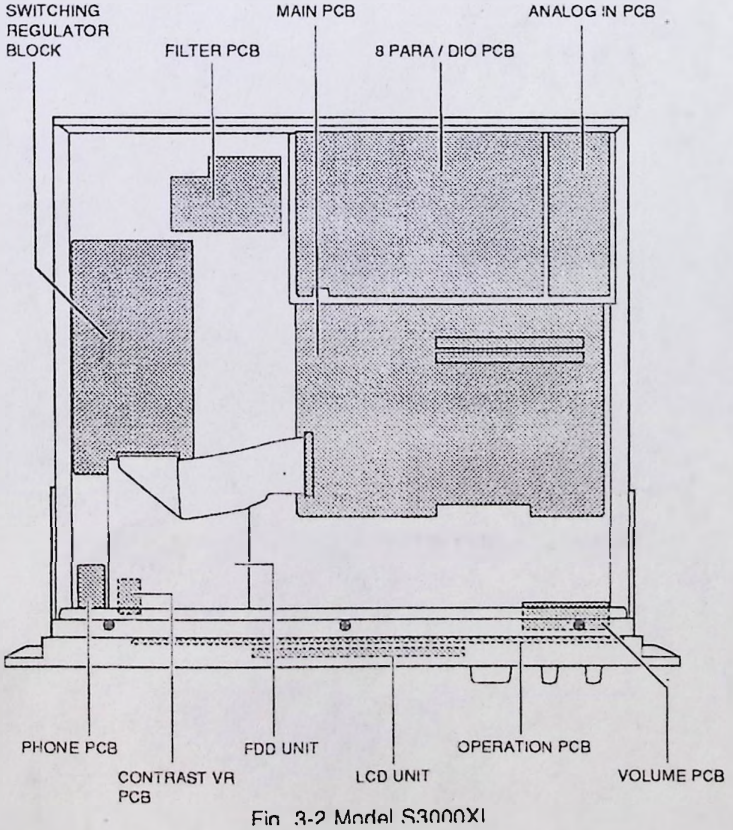


Fig. 3-2 Model S3000XI

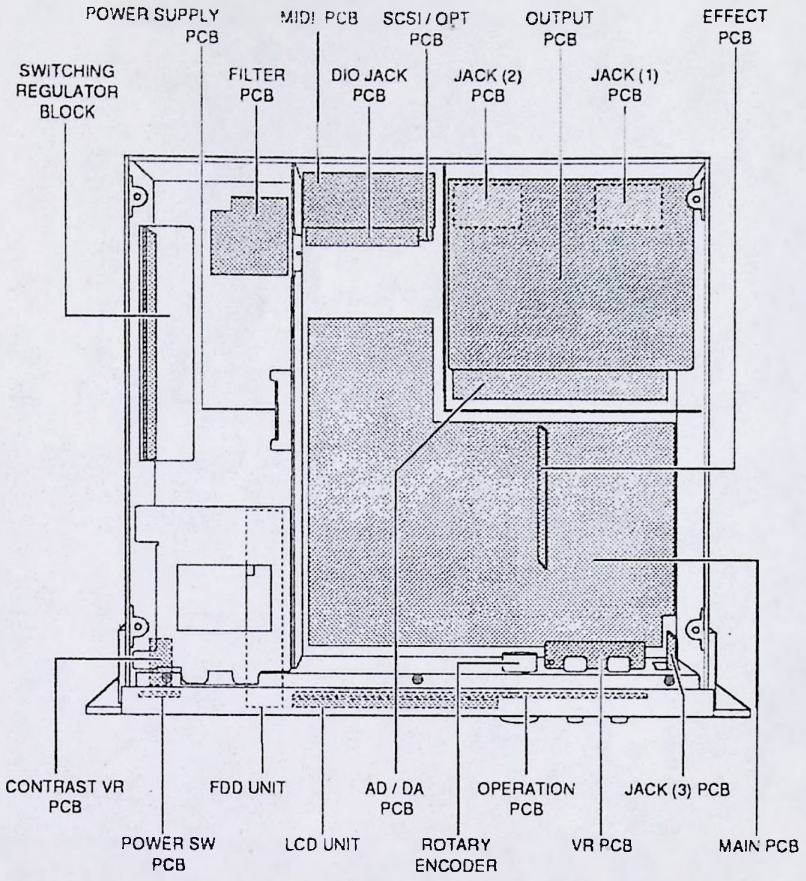


Fig. 3-3 Model S3200XL

IV. ELECTRICAL ADJUSTMENT (S3200XL ONLY)

4-1. INSTRUMENT CONNECTION

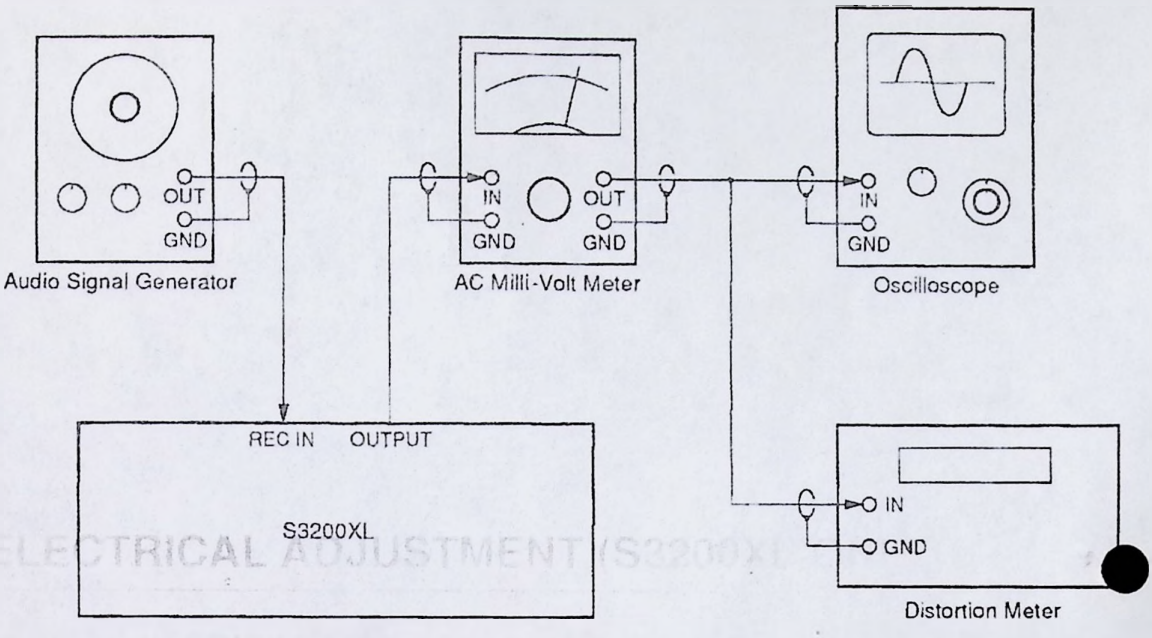


Fig. 4-1 Instrument connection

4-2. LOCATION OF THE ADJUSTMENT POINTS

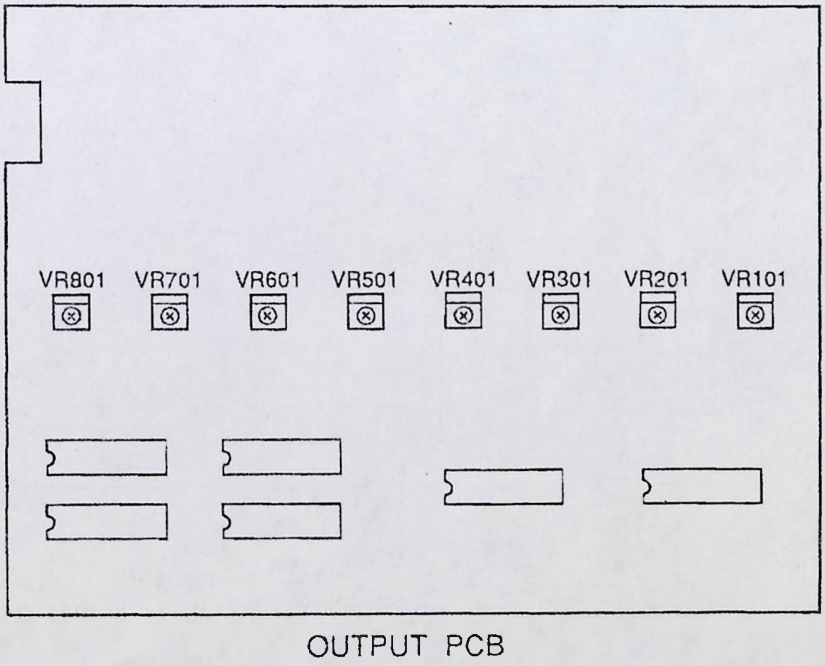


Fig. 4-2

4-3. MSB ADJUSTMENT

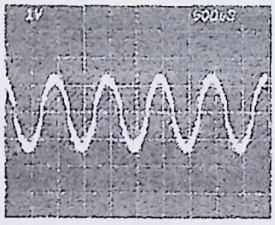
1) Connect an audio signal generator to the LEFT channel analog input and make a 1 kHz sinewave sample as follows.

   Press the "MARK/#" and "NAME" buttons simultaneously then press the "–/▷" button to set the unit to the default condition. After it is initialized, press the "EDIT SAMPLE" button. Next, use the DATA knob to select the sample "SINE", then press the "F3/C" (REC2) button. Move the cursor to "tim: 1 : 00S" then enter "1000" with the numerical buttons and then press the "ENT/PLAY" button to set the sampling time of 10 seconds. Adjust the REC LEVEL volume on the front panel so that the level meter indication on the left side of the display is slightly over –20 dBm and then press the "F8/H" (ARM) button to start sampling.

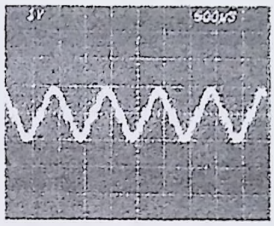
2) Connect an AC milli-volt meter to the analog output CH-1.

3) Press the "EDIT PROGRAM" button then press the "F5/E" (OUT). Move the cursor to "indiv output: OFF" position and select CH-1 by pressing the "1" numerical button. Then move the cursor to "loudness: 80" position and keep pressing the "ENT/PLAY" button to play back the sample. Adjust the output level to –60 dBm with the data knob.

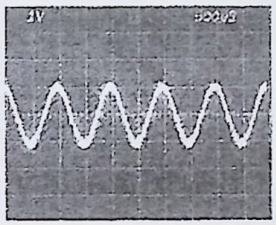
4) Adjust the VR101 (CH-1) on the OUTPUT PCB while pressing the "ENT/PLAY" button so that the waveform displayed on the oscilloscope become a smooth continuous sinewave at –60 dBm level as shown.



INCORRECT



INCORRECT



CORRECT

5) Move the cursor back to "indiv output : 1" position then select the appropriate channel from CH-2 to CH-8 with one of the numerical buttons where the meter is connected. Adjust the corresponding semi-fixed VRs the same way as in step 4).

VR101 (CH-1)	VR501 (CH-5)
VR201 (CH-2)	VR601 (CH-6)
VR301 (CH-3)	VR701 (CH-7)
VR401 (CH-4)	VR801 (CH-8)

V. SUPPLEMENTARY INFORMATION

5-1. MEMORY TEST

* This test mode is used for the inspection of the unit. To check the unit, proceed as follows.

5-1-1. Memory test for S2000 model

1) While pressing the "PAGE ∧" button, turn the power on. Keep pressing the "PAGE ∧" button until the following messages will be displayed on the LC display.

```
hardware testing
wave memory . . . .
```

2) Next, the following messages will be displayed on the LC display and the "EDIT" indicator starts flashing.

```
01MW wave memory
testing . . .
```

3) After a few seconds, "EDIT" indicator stops flashing and then "GLOBAL" indicator starts flashing.
4) The "SAVE" and "LOAD" indicators start flashing in turn in the same manner as 3).
5) If the function of the unit is normal, the following message will be displayed on the LC display. Also the "MULTI", "EFFECTS", "EDIT" and "SAVE" indicators turn on.

```
01MW wave memory
tested    okay
```

6) Turn the power off to disengage the "test mode".

5-1-2. Memory test for model S3000XL and S3200XL models

1) Press the "MARK/#" and "NAME" buttons simultaneously after the power has been turned on for 10 seconds. All eight LEDs which belong to "SINGLE/A" to "LOAD/H" buttons ("SINGLE/I" to "LOAD/P" for S3200XL model) turn on accordingly.
2) Press the "+/◁" button. The following messages will be displayed on the LC display and the value indicator will start increasing.

```
Testing Memory...
      testing   01   Mword   01
```

S3000XL

```
Testing Memory...
      testing   08   Mword   01
```

S3200XL

3) The following message will be displayed on the LC display after the display stops incrementing.

```
Testing Memory...
      testing   01   Mword   10   okay

   Press F8 to continue
```

S3000XL

```
Testing Memory...
      testing   08   Mword   80   okay

   Press F8 to continue
```

S3200XL

This means the function of the unit is operating properly. Turn the power off to terminate the test mode.

5-2. MEMORY RESET (S3000XL/S3200XL only)

To initialize all the internal memories and circuit, while the power is turned on, press the "MARK/#" and "NAME" buttons simultaneously. Then press the "–/▷" button.

VI. PARTS LIST

ATTENTION

1. When placing an order for parts, be sure to list the Part No., Model No. and the description of earch part. Otherwice, 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. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.

a) Mechanism Block

2. HEAD BASE BLOCK

Ref. No.	Part. No.	Description
1	BH-T2023A320A	HEAD BASE BLOCK
2	HP-H2206A010A	HEAD R/P PR4-8FU C
3	ZS-477876	PAN20×03STL CMT
4	ZS-536488	BID20×08STL CMT
5	ZG-402895	SP CS ANGLE ADJUST

SP (Service Parts) Classification

This number corresponds with the individual parts index number in the figure.

b) PC Board

2. MAIN PC BOARD

Ref. No.	Part. No.	Description
IC1	EI-324536	IC HD14049BP
IC2	EI-336801	IC MB8841-564M
C1A	EC-338399	C MMY V 223M 250AC [U,E,B,S]
C1B	EC-350949	C MMY V 223M 250DC [J]
C1C	EC-338397	C MMY V 223M 125AC [C,A]
X1	EI-318384	OSC X'TAL NC-18C

Symbols for primary destination
[A] : AAL (U.S.A) [S] : SAA (Australia)
[B] : BEAB (England) [U] : U/T (Universal Area)
[C] : CSA (Canada)
[E] : CEE (Europe) [V] : VDE (Germany)
[J] : JPN (Japan) [Y] : Custom

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No. listed at right of Part No.

WARNING

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

AVERTISSEMENT

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

6-1. Model S2000, IB-208P, EB16

1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref. No.	Part No.	Description
1	BB-431282J	FDD D359T5 R69-1212
2	⚠ BT-430823J1	TRANS POW L6039 J,A,E
3	ED-388539J	D LED GL-3HD43
4	⚠ ED-357038	D SILICON DBB10B 100/1.0A
5	⚠ ED-400842J	D SILICON DBF60B 100V/6.0A
6	ED-389834J	D SILICON DS135E-FB2 F12 100/1
7	ED-344280	D SILICON H GMA-01-FY2 F05
8	⚠ EF-359007	FUSE BET T 250V 1.25A [B]
9	⚠ EF-359086	FUSE BET T 250V 4.00A [B]
10	⚠ EF-358641	FUSE BET T 250V 800MA [B]
11	⚠ EF-376821	FUSE ICP-N15 50V 0.6A
12	⚠ EF-373142	FUSE ICP-N25 50V 1.0A
13	⚠ EF-373143	FUSE ICP-N38 50V 1.5A
14	⚠ EF-602550	FUSE SET T 250V 1.25A [E,V]
15	⚠ EF-690996	FUSE SET T 250V 4.00A [E,V]
16	⚠ EF-258344	FUSE SET T 250V 800MA [E,V]
17	⚠ EF-309387	FUSE TSC A 250V 1.00A [J]
18	⚠ EF-311839	FUSE TSC A 250V 1.60A [J]
19	⚠ EF-326613	FUSE TSC A 250V 5.00A [J]
20	⚠ EF-310229	FUSE TSC 125V 1.00A [A]
21	⚠ EF-308847	FUSE TSC 125V 1.60A [A]
22	⚠ EF-346139	FUSE TSC 125V 5.00A [A]
23	EH-384817J	COMP R RKC1/8B8 102J
24	EH-349374	COMP R RKC1/8B8 472J
25	EH-408860J	COMP R RKC1/8B9 111J
26	EI-427259J	IC AK5339-VP
27	EI-397343J	IC AM27C256 150DC [BLANK ROM]
28	EI-429988J	IC AV9173-01-CN8
29	EI-410414J1	IC CS8402A-CP
30	EI-389061J	IC HD74AC04P
31	EI-430678J	IC HD74AC244P
32	EI-388711J	IC HD74HC00P
33	EI-394832J	IC HD74HC123AP
34	EI-386289J	IC HD74HC138P
35	EI-386707J	IC HD74HC244P
36	EI-388712J	IC HD74HC245P
37	EI-397090J	IC HD74HC273P
38	EI-388709J	IC HD74HC32P
39	EI-393702J	IC HD74HC595P
40	EI-393696J	IC HD74HC86P
41	EI-430679J	IC HM514260AZ-8 [OLD]
42	EI-430979J	IC HM514400CZ-8 [OLD]
43	EI-413120J	IC L7A1045 L6028 DSP-A
44	EI-427564J	IC L7A1414 L6038 DFX
45	EI-379657J	IC MB89255A-P-G
46	EI-388602J	IC MB89352A-P-G
47	EI-414841J	IC MC74HCU04N
48	EI-430680J	IC M51957AL
49	EI-430681J	IC M51958AL
50	EI-353227	IC M5216L
51	EI-393325N	IC M5218AP
52	EI-348785	IC M5220L
53	EI-360043	IC M5220P
54	⚠ EI-348123	IC M5230L
55	⚠ EI-430677J	IC M5237L
56	EI-377191	IC NJM5532D-D
57	EI-413206J	IC NJM7905FA
58	EI-430668J	IC PALCE16V8Q-15PC L6039A
59	EI-430669J	IC PALCE16V8Q-15PC L6039B
60	EI-430670J	IC PALCE16V8Q-15PC L6039C
61	EI-430671J	IC PALCE16V8Q-15PC L6039D
62	EI-430673J	IC PALCE20V8Q-15PC L6039A
63	EI-430674J	IC PALCE20V8Q-15PC L6039B
64	EI-412279J1	IC PCM69AP-4
65	EI-410389J	IC PQ30RV1
66	EI-430682J	IC TC74AC257P
67	EI-377101	IC UPC7805HF
68	EI-432915J	IC UPD424260G5-70-7JF [NEW]
69	EI-432772J	IC UPD424400GS-60-9JD [NEW]
70	EI-430776J	IC UPD431000AGW-85L
71	EI-430684J	IC UPD70236AGD-16-5BB
72	EI-413121J	IC UPD72069GF-3BA
73	EI-379997J	IC YM3623B
74	EI-374176	OSC X'TAL AT-51 16.9344MHZ
75	EI-430998J	OSC X TAL HC-49/U 31.9284MHZ
76	EM-432814J	IND LCD LM162ET2
77	EQ-348929	RELAY SIG G5A-237P 2TR 12V
78	⚠ ER-200746	R FUSE H ERD2FC 1/4W 1000G
79	⚠ ES-430685J1	SW PUSH SDDF3A 02-1 [POWER SW]
80	ES-403377J	SW ROTARY ENCODER SRGPHJ [JOG VOLUME]
81	ES-430686J	SW TACT SKHQAC
82	ES-410552J	SW TACT SKHVBE T05
83	ET-379341	DETECTOR PC910X
84	ET-366753N	TR DTA114ES T05
85	⚠ ET-430675J	TR 2SB1340
86	⚠ ET-356817N	TR 2SB891 Q,R
87	⚠ ET-354083N	TR 2SD1189 Q,R
88	EV-430696J	VR ROTARY RK0971220 L20 B103X2 [MAIN VOLUME]
89	EV-430697J	VR ROTARY RK0971220 L20 C503X2 [REC GAIN VOLUME]

2. P.C. BOARD BLOCK

Ref. No.	Part No.	Description
1	BA-L6039A020A	PC MAIN BLK S2000

3. MAIN P.C. BOARD

Ref. No.	Part No.	Description
D1	ED-344280	D SILICON H GMA-01-FY2 F05
D2	ED-389834J	D SILICON DS135E-FB2 F12 100/1
D4	ED-389834J	D SILICON DS135E-FB2 F12 100/1
D11	ED-344280	D SILICON H GMA-01-FY2 F05
D12	ED-389834J	D SILICON DS135E-FB2 F12 100/1
FL1	EH-410420J	FILTER EMI DSS306-93B101MT05
FL2	EH-410420J	FILTER EMI DSS306-93B101MT05
FL3	EH-410420J	FILTER EMI DSS306-93B101MT05
FL4	EH-410420J	FILTER EMI DSS306-93B101MT05
FL5	EH-410420J	FILTER EMI DSS306-93B101MT05
FL6	EH-410420J	FILTER EMI DSS306-93B101MT05
FL8	EH-405610J	FILTER EMI DSS310H54B 222M 250
FL36	EH-410420J	FILTER EMI DSS306-93B101MT05
FL37	EH-410420J	FILTER EMI DSS306-93B101MT05
FL41	EH-410420J	FILTER EMI DSS306-93B101MT05
FL45	EH-410420J	FILTER EMI DSS306-93B101MT05
FL46	EH-410420J	FILTER EMI DSS306-93B101MT05
FR122	⚠ ER-200746	R FUSE H ERD2FC 1/4W 1000G
FR123	⚠ ER-200746	R FUSE H ERD2FC 1/4W 1000G
FS1	⚠ EF-373142	FUSE ICP-N25 50V 1.0A

Ref. No.	Part No.	Description
FS2	⚠ EF-376821	FUSE ICP-N15 50V 0.6A
FS3	⚠ EF-376821	FUSE ICP-N15 50V 0.6A
IB1	EH-349374	COMP R RKC1/8B8 472J
IB2	EH-384817J	COMP R RKC1/8B8 102J
IB3	EH-405860J	COMP R RKC1/8B9 111J
IB4	EH-408860J	COMP R RKC1/8B9 111J
IC1	EI-430684J	IC UPD70236AGD-16-5BB
IC2	EI-430690J	IC M51957AL
IC3	EI-388712J	IC HD74HC245P
IC4	EI-430668J	IC PALCE16V8Q-15PC L6039A
IC5	EI-430682J	IC TC74AC257P
IC6	EI-430682J	IC TC74AC257P
IC7	EI-388711J	IC HD74HC00P
IC8	EI-388709J	IC HD74HC32P
IC9-A	EI-432915J	IC UPD424260G5-70-7JF [NEW]
IC9-B	EI-430679J	IC HM514260AZ-8 [OLD]
IC10-A	EI-432915J	IC UPD424260G5-70-7JF [NEW]
IC10-B	EI-430679J	IC HM514260AZ-8 [OLD]
IC11	EI-386289J	IC HD74HC138P
IC12-A	EI-810024J	IC AM27C256-150DC S2000 V1.02 [PROGRAM ROM]
IC12-B	EI-397343J	IC AM27C256-150DC [BLANK ROM]
IC13	EI-379657J	IC MB89255A-P-G
IC16	EI-430669J	IC PALCE16V8Q-15PC L6039B
IC17	EI-413121J	IC UPD72069GF-3BA
IC18	EI-388602J	IC MB89352A-P-G
IC19	EI-410389J	IC PQ30RV1
IC20	EI-413120J	IC L7A1045 L6028 DSP-A
IC21	EI-429988J	IC AV9173-01-CN8
IC23	EI-430678J	IC HD74AC244P
IC24	EI-430673J	IC PALCE20V8Q-15PC L6039A
IC25	EI-430670J	IC PALCE16V8Q-15PC L6039C
IC26	EI-397090J	IC HD74HC273P
IC27	EI-393702J	IC HD74HC595P
IC28	EI-393702J	IC HD74HC595P
IC29	EI-430671J	IC PALCE16V8Q-15PC L6039D
IC30	EI-430674J	IC PALCE20V8Q-15PC L6039B
IC31-A	EI-432772J	IC UPD424400GS-60-9JD [NEW]
IC31-B	EI-430979J	IC HM514400CZ-8 [OLD]
IC32-A	EI-432772J	IC UPD424400GS-60-9JD [NEW]
IC32-B	EI-430979J	IC HM514400CZ-8 [OLD]
IC33-A	EI-432772J	IC UPD424400GS-60-9JD [NEW]
IC33-B	EI-430979J	IC HM514400CZ-8 [OLD]
IC34-A	EI-432772J	IC UPD424400GS-60-9JD [NEW]
IC34-B	EI-430979J	IC HM514400CZ-8 [OLD]
IC35	EI-389061J	IC HD74AC04P
IC41	EI-388707J	IC HD74HC244P
IC42	EI-412279J1	IC PQM69AP-4
IC43	EI-377101	IC UPC7805HF
IC44	EI-430681J	IC M51958AL
IC45	EI-360043	IC M5220P
IC46	EI-360043	IC M5220P
IC47	EI-393325N	IC M5218AP
IC48	EI-393325N	IC M5218AP
IC49	EI-353227	IC M5216L
IC50	EI-427259J	IC AK5339-VP
IC51	EI-377101	IC UPC7805HF
IC52	EI-413206J	IC NJM7905FA
IC53	EI-377101	IC UPC7805HF
J1	EJ-403478J	DIN J YKF51-5040 5P
J2	EJ-428182J	SOCKET DBLC-J25SAF-20L9 25P
J3	EJ-419240J	SOCKET FCN-235J068-G/0 68P
J5	EJ-424423J	SOCKET 6-176438-7 72P
J6	EJ-424423J	SOCKET 6-176438-7 72P

Ref. No.	Part No.	Description
J11	EJ-354105	PHONE J 2P HLJ0520-110 6.3
J12	EJ-354105	PHONE J 2P HLJ0520-110 6.3
L1	EO-345995N	COIL FIX 1 EL0606RA T05 101J
L11	EO-345990N	COIL FIX 1 EL0606RA T05 470J
PH1	ET-379341	DETECTOR PC910X
P9	EJ-429926J	PLUG 302-14TSB 14P
P10	EJ-429929J	PLUG 302-34GSB 34P
P13	EJ-429929J	PLUG 302-34GSB 34P
P19	EJ-430689J	PLUG 128A-060P3C-S14N 60P
P20	EJ-430689J	PLUG 128A-060P3C-S14N 60P
RL1	EO-348929	RELAY SIG G5A-237P 2TR 12V
R29	ER-386215J	R OMF H S12 FS 1W 220J
R130	ER-410305J	R OMF H S12 FS 1W 510J
TR11	ET-366753N	TR DTA114ES T05
VR1	EV-356323	R S-FIX H KVSF637A 0.10W 102
X1	EI-430998J	OSC X'TAL HC-49/U 31.9284MHZ

4. OPERATION P.C. BOARD

Ref. No.	Part No.	Description
D201	ED-388539J	D LED GL-3HD43
D202	ED-388539J	D LED GL-3HD43
D203	ED-388539J	D LED GL-3HD43
D204	ED-388539J	D LED GL-3HD43
D205	ED-388539J	D LED GL-3HD43
D206	ED-388539J	D LED GL-3HD43
D207	ED-388539J	D LED GL-3HD43
D208	ED-388539J	D LED GL-3HD43
D209	ED-344280	D SILICON H GMA-01-FY2 F05
D210	ED-344280	D SILICON H GMA-01-FY2 F05
D211	ED-344280	D SILICON H GMA-01-FY2 F05
D212	ED-344280	D SILICON H GMA-01-FY2 F05
D213	ED-344280	D SILICON H GMA-01-FY2 F05
D214	ED-344280	D SILICON H GMA-01-FY2 F05
D215	ED-344280	D SILICON H GMA-01-FY2 F05
D216	ED-344280	D SILICON H GMA-01-FY2 F05
D217	ED-344280	D SILICON H GMA-01-FY2 F05
D218	ED-344280	D SILICON H GMA-01-FY2 F05
D219	ED-344280	D SILICON H GMA-01-FY2 F05
D220	ED-344280	D SILICON H GMA-01-FY2 F05
D221	ED-344280	D SILICON H GMA-01-FY2 F05
D222	ED-344280	D SILICON H GMA-01-FY2 F05
D223	ED-344280	D SILICON H GMA-01-FY2 F05
SW201	ES-430686J	SW TACT SKHQAC
SW202	ES-430686J	SW TACT SKHQAC
SW203	ES-410552J	SW TACT SKHVBE T05
SW204	ES-410552J	SW TACT SKHVBE T05
SW205	ES-410552J	SW TACT SKHVBE T05
SW206	ES-410552J	SW TACT SKHVBE T05
SW207	ES-410552J	SW TACT SKHVBE T05
SW208	ES-410552J	SW TACT SKHVBE T05
SW209	ES-410552J	SW TACT SKHVBE T05
SW210	ES-410552J	SW TACT SKHVBE T05
SW211	ES-410552J	SW TACT SKHVBE T05
SW212	ES-410552J	SW TACT SKHVBE T05
SW213	ES-410552J	SW TACT SKHVBE T05
SW214	ES-410552J	SW TACT SKHVBE T05
SW215	ES-410552J	SW TACT SKHVBE T05
W201	EW-432645J	WIRE ASSY L6039-1 W201 10P
W202	EW-432646J	WIRE ASSY L6039-1 W202 9P

5. POWER SUPPLY P.C. BOARD

Ref. No.	Part No.	Description
C301	EC-379611	C EC V S10 SME 123M 10.0DC
C302	EC-410497J	C EC V CUT TWSS 222M 25.0DC
C303	EC-410497J	C EC V CUT TWSS 222M 25.0DC
C304	⚠ EC-389895J	C CE V T05 DD003 F 103Z 50DC
C305	⚠ EC-389895J	C CE V T05 DD003 F 103Z 50DC
C306	⚠ EC-389895J	C CE V T05 DD003 F 103Z 50DC
C307	⚠ EC-389895J	C CE V T05 DD003 F 103Z 50DC

Ref. No.	Part No.	Description
D301	⚠ ED-400842J	D SILICON DBF60B 100V/6.0A
D302	⚠ ED-357038	D SILICON DBB10B 100/1.0A
D303	ED-389834J	D SILICON DS135E-FB2 F12 100/1
IC301	⚠ EI-430677J	IC M5237L
IC302	⚠ EI-348123	IC M5230L
R301	ER-327710	R CB H S10 FS RDS 1/4W 151J
R304	ER-324185	R CB H S10 FS RDS 1/4W 221J
R305	ER-324185	R CB H S10 FS RDS 1/4W 221J
TR301	⚠ ET-430675J	TR 2SB1340
TR302	⚠ ET-356817N	TR 2SB891 Q,R
TR303	⚠ ET-354083N	TR 2SD1189 Q,R
1	EZ-412419J	TR ACC SILICON SHEET TC-20CG
F2-A	⚠ EF-326613	FUSE TSC A 250V 5.00A [J]
F2-B	⚠ EF-346139	FUSE TSC 125V 5.00A [A]
F2-C	⚠ EF-690996	FUSE SET T 250V 4.00A [E,V]
F2-D	⚠ EF-359086	FUSE BET T 250V 4.00A [B]
F3-A	⚠ EF-309387	FUSE TSC A 250V 1.00A [J]
F3-B	⚠ EF-310229	FUSE TSC 125V 1.00A [A]
F3-C	⚠ EF-258344	FUSE SET T 250V 800MA [E,V]
F3-D	⚠ EF-358641	FUSE BET T 250V 800MA [B]
F4-A	⚠ EF-309387	FUSE TSC A 250V 1.00A [J]
F4-B	⚠ EF-310229	FUSE TSC 125V 1.00A [A]
F4-C	⚠ EF-258344	FUSE SET T 250V 800MA [E,V]
F4-D	⚠ EF-358641	FUSE BET T 250V 800MA [B]

6. FILTER P.C. BOARD

Ref. No.	Part No.	Description
C401	⚠ EC-425606J	C MMY V CUT MMRC 683M 275AC
C402	⚠ EC-410346J	C CE V DE1110E102M 400AC
C403	⚠ EC-410346J	C CE V DE1110E102M 400AC
C404	⚠ EC-410346J	C CE V DE1110E102M 400AC
C405	⚠ EC-410346J	C CE V DE1110E102M 400AC
FL401	⚠ EO-389172J	COIL LF LF-4N 502
F1-A	⚠ EF-311839	FUSE TSC A 250V 1.60A [J]
F1-B	⚠ EF-308847	FUSE TSC 125V 1.60A [A]
F1-C	⚠ EF-602550	FUSE SET T 250V 1.25A [E,V]
F1-D	⚠ EF-359007	FUSE BET T 250V 1.25A [B]

7. ANALOG P.C. BOARD

Ref. No.	Part No.	Description
IC501	EI-360043	IC M5220P
IC502	EI-377191	IC NJM5532D-D
IC503	EI-377191	IC NJM5532D-D
J501	EJ-432660J	PHONE J 3P HTJ-06411DH 6.3
J502	EJ-432660J	PHONE J 3P HTJ-06411DH 6.3
VR501	EV-430697J	VR ROTARY RK0971220 L20 C503X2 [REC GAIN VOLUME]
W501	EW-432647J	WIRE ASSY L6039-1 W501 8P

8. VR P.C. BOARD

Ref. No.	Part No.	Description
J601	EJ-432660J	PHONE J 3P HTJ-06411DH 6.3 [PHONES]
R601	ER-430691J	R OMF H S12 FS 1W 101J
R602	ER-430691J	R OMF H S12 FS 1W 101J
VR601	EV-430696J	VR ROTARY RK0971220 L20 B103X2 [MAIN VOLUME]

9. JOG P.C. BOARD

Ref. No.	Part No.	Description
SW701	ES-403377J	SW ROTARY ENCODER SRGPHJ [JOG VOLUME]

10. POWER SW P.C. BOARD

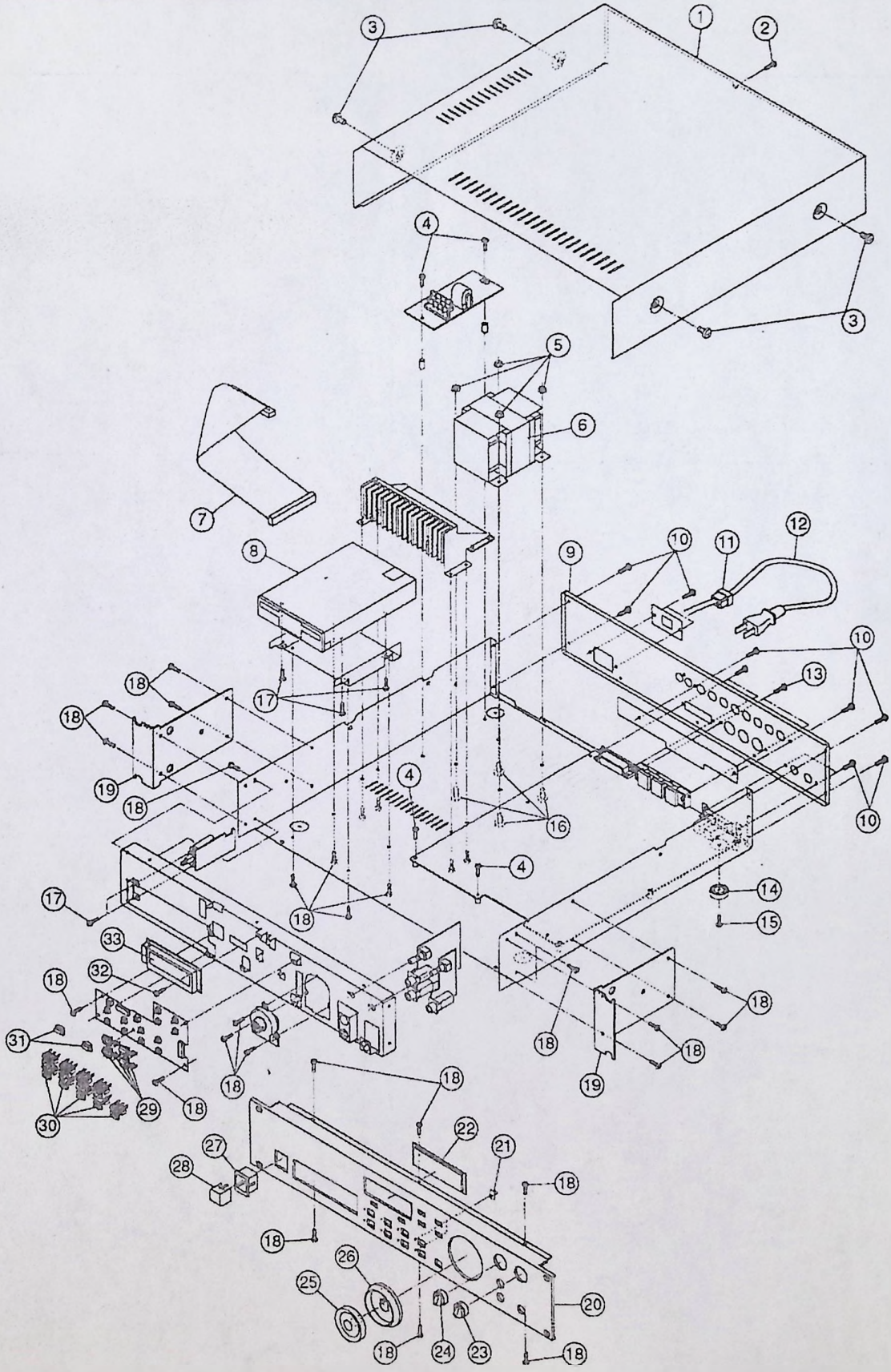
Ref. No.	Part No.	Description
C801	⚠ EC-427562J	C MMY V CUT MKP3362 103M 275AC
SW801	⚠ ES-430685J1	SW PUSH SDDF3A 02-1 [POWER SW]

11. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
1	SP-429683J1	COVER UPPER
2	ZS-418385J	BT BID30X06STL BNI EARTH LOCK
3	ZS-322570	ST BID40X08STL NI3
4	ZS-428277J	PAN30X06STL CMT POLY WAVE
5	ZW-413267	N FRANGE 40STL CMT
6	⚠ BT-430823J1	TRANS POW L6039 J,A,E
7	EW-430651J	WIRE ASSY L6039-2 W104 34P
8	BB-431282J	FDD D359T5 R69-1212
9	SP-429697J	PANEL REAR S2000
10	ZS-345272	ST BR30X06STL BNI
11	⚠ EZ-371605	BUSH CORD 2271
12-A	⚠ EW-427587J	AC CORD200 KP210VCTFKVHR3M W J [J]
12-B	⚠ EW-410481M1	AC CORD 200 SU1P SPT2 VAR-2 AC [A]
12-C	⚠ EW-408724M1	AC CORD200 SE1H03VVH2F VHR3N E [E,V,B]
13	ZS-350934	PT BR30X08STL BNI
14	SA-349332	FOOT
15	ZS-344754	ST PAN30X06STL CMT C080
16	ZS-416687	BID40X08STL CMT
17	ZS-379405N	BID30X06STL CMT (SG)
18	ZS-320906	ST BR30X06STL CMT
19	SZ-429678J	PANEL ANGLE
20	SP-429430J1	PANEL FRONT S2000
21	SE-429695J	LENS LED
22	SE-429696J	WINDOW LCD
23	SK-429688J	KNOB VOL(A) [MAIN]
24	SK-429689J	KNOB VOL(B) [REC]
25	SK-429687J	KNOB JOG
26	SK-429686J	KNOB SHUTTLE
27	SE-429691J	ESCUTCHEON POWER
28	SB-429692J	BUTTON POWER
29	SB-429685J	BUTTON PUSH(B)
30	SB-429684J	BUTTON PUSH(A)
31	SB-429694J	BUTTON FUNCTION
32	ZS-201275	ST PAN26X06STL CMT
33	EM-432814J	IND LCD LM162ET2

NOTE :
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

FINAL ASSEMBLY BLOCK



12. IB-208P (OPTIONAL P.C. BOARD)

Ref. No.	Part No.	Description
FL501	EH-410420J	FILTER EMI DSS306-93B101MT05
FL506	EH-410420J	FILTER EMI DSS306-93B101MT05
FL507	EH-410420J	FILTER EMI DSS306-93B101MT05
FL508	EH-410420J	FILTER EMI DSS306-93B101MT05
FL509	EH-410420J	FILTER EMI DSS306-93B101MT05
FL511	EH-404248J	FILTER EMI DSS310-54B 101M CUT
FL512	EH-404248J	FILTER EMI DSS310-54B 101M CUT
FS501	⚠ EF-376821	FUSE ICP-N15 50V 0.6A
FS502	⚠ EF-373143	FUSE ICP-N38 50V 1.5A
IC501	EI-388707J	IC HD74HC244P
IC502	EI-393696J	IC HD74HC86P
IC503	EI-412279J1	IC PCM69AP-4
IC504	EI-412279J1	IC PCM69AP-4
IC505	EI-412279J1	IC PCM69AP-4
IC506	EI-412279J1	IC PCM69AP-4
IC507	EI-348785	IC M5220L
IC508	EI-348785	IC M5220L
IC509	EI-348785	IC M5220L
IC510	EI-348785	IC M5220L
IC511	EI-348785	IC M5220L
IC512	EI-348785	IC M5220L
IC513	EI-348785	IC M5220L
IC514	EI-348785	IC M5220L
IC515	EI-393325N	IC M5218AP
IC516	EI-393325N	IC M5218AP
IC517	EI-393325N	IC M5218AP
IC518	EI-393325N	IC M5218AP
IC519	EI-379997J	IC YM3623B
IC521	EI-410414J1	IC CS8402A-CP
IC522	EI-377101	IC UPC7805HF
IC524	EI-414841J	IC MC74HCU04N
IC525	EI-394832J	IC HD74HC123AP
J501	EJ-364322	PHONE J 2P HLJ0520-110 W/NUT
J502	EJ-364322	PHONE J 2P HLJ0520-110 W/NUT
J503	EJ-364322	PHONE J 2P HLJ0520-110 W/NUT
J504	EJ-364322	PHONE J 2P HLJ0520-110 W/NUT
J505	EJ-364322	PHONE J 2P HLJ0520-110 W/NUT
J506	EJ-364322	PHONE J 2P HLJ0520-110 W/NUT
J507	EJ-364322	PHONE J 2P HLJ0520-110 W/NUT
J508	EJ-364322	PHONE J 2P HLJ0520-110 W/NUT
J509	EJ-430794J	PIN J YKC21-3045 2P
T501	EO-414952J	TRANS PULSE CIT0705D-35101
W501	EW-430793J	WIRE ASSY L6036-2 W501 34P
X501	EI-374176	OSC X'TAL AT-51 16.9344MHZ

13. EB16 (OPTIONAL P.C. BOARD)

Ref. No.	Part No.	Description
IC1	EI-427564J	IC L7A1414 L6038 DFX
IC2	EI-430776J	IC UPD431000AGW-85L
IC3	EI-430776J	IC UPD431000AGW-85L
IC4	EI-430776J	IC UPD431000AGW-85L
IC5	EI-430682J	IC TC74AC257P
P1	EJ-431264J	PLUG 123A-044P2B-L14A 44P

6-2. Model S3000XL

1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref. No.	Part No.	Description
1	BB-431283J	FDD D359T5 R69-1324
2	⚠ BP-397454J	SW POW PMC50E4XULA 100/200 [POWER BLOCK]
3	BT-390145J	TRANS PULSE NI05-05-5
4	ED-389834J	D SILICON DS135E-FB2 F12 100/1
5	ED-344280	D SILICON H GMA-01-FY2 F05
6	⚠ EF-376821	FUSE ICP-N15 50V 0.6A
7	⚠ EF-373142	FUSE ICP-N25 50V 1.0A
8	⚠ EF-373143	FUSE ICP-N38 50V 1.5A
9	EH-384815J	COMP R RKC1/8B12 103J
10	EH-384817J	COMP R RKC1/8B8 102J
11	EH-413158J	COMP R RKC1/8B8 471J
12	EH-349374	COMP R RKC1/8B8 472J
13	EH-408860J	COMP R RKC1/8B9 111J
14	EI-427259J	IC AK5339-VP
15	EI-427280J	IC AM27C040-150DC [BLANK ROM]
16	EI-429988J	IC AV9173-01-CN8
17	EI-427660J	IC BR6216B-10LL
18	EI-410414J1	IC CS8402A-CP
19	EI-389061J	IC HD74AC04P
20	EI-430678J	IC HD74AC244P
21	EI-388711J	IC HD74HC00P
22	EI-394832J	IC HD74HC123AP
23	EI-386289J	IC HD74HC138P
24	EI-388707J	IC HD74HC244P
25	EI-388712J	IC HD74HC245P
26	EI-397090J	IC HD74HC273P
27	EI-388709J	IC HD74HC32P
28	EI-393702J	IC HD74HC595P
29	EI-393696J	IC HD74HC86P
30	EI-430679J	IC HM514260AZ-8 [OLD]
31	EI-430979J	IC HM514400CZ-8 [OLD]
32	EI-378276	IC LC7981
33	EI-413120J	IC L7A1045 L6028 DSP-A
34	EI-379657J	IC MB89255A-P-G
35	EI-388602J	IC MB89352A-P-G
36	EI-414841J	IC MC74HCU04N
37	EI-430680J	IC M51957AL
38	EI-430681J	IC M51958AL
39	EI-353227	IC M5216L
40	EI-393325N	IC M5218AP
41	EI-348785	IC M5220L
42	EI-360043	IC M5220P
43	EI-413206J	IC NJM7905FA
44	EI-430668J	IC PALCE16V8Q-15PC L6039A
45	EI-430669J	IC PALCE16V8Q-15PC L6039B
46	EI-430670J	IC PALCE16V8Q-15PC L6039C
47	EI-430671J	IC PALCE16V8Q-15PC L6039D
48	EI-430673J	IC PALCE20V8Q-15PC L6039A
49	EI-430674J	IC PALCE20V8Q-15PC L6039B
50	EI-412279J1	IC PCM69AP-4
51	EI-410389J	IC PQ30RV1
52	EI-430682J	IC TC74AC257P
53	EI-377101	IC UPC7805HF
54	EI-432915J	IC UPD424260G5-70-7JF [NEW]
55	EI-432772J	IC UPD424400GS-60-9JD [NEW]
56	EI-430684J	IC UPD70236AGD-16-5BB
57	EI-413121J	IC UPD72069GF-3BA
58	EI-379997J	IC YM3623B
59	EI-374176	OSC X'TAL AT-51 16.9344MHZ
60	EI-396541J	OSC X'TAL HC-49/U 32.000000MHZ
61	EL-733752J	EL BACK LIGHT (C)
62	EM-418780J	IND LCD NFM243N20
63	EQ-348929	RELAY SIG G5A-237P 2TR 12V
64	⚠ ER-200972	R FUSE H S10 ERD2FC 1/4W 33R0G
65	⚠ ER-412299J	R FUSE H S12 ERQ12AJ 1/2W 3R3J
66	ES-414627J	SW ROTARY EC24B50D0 [DATA VOLUME]
67	⚠ ES-427895J	SW SEESAW EST-15992V 02-1 [POWER SW]
68	ES-411687N	SW TACT EVQ-PAE05R
69	ES-413139J	SW TACT SKHJAB
70	ES-413140J	SW TACT SKHJGS
71	ET-379341	DETECTOR PC910X
72	ET-366753N	TR DTA114ES T05
73	ET-386938N	TR DTC123ES T05
74	ET-370013	TR 2SA874 Q,R
75	EV-412275J	VR ROTARY RK0971112 L20 B502 [CONTRAST VOLUME]
76	EV-430796J	VR ROTARY RK16312A0 C503X2 [REC GAIN VOLUME]
77	EV-425557J	VR ROTARY RK16312A0 L30B103X2 [MAIN VOLUME]

2. P.C. BOARD BLOCK

Ref. No.	Part No.	Description
1	BA-L6039B020B	PC MAIN BLK S3000XL
2	BA-L6036A050A	PC ELINV BLK S300XL
3	BA-L6036A030A	PC(#) 8PARA BLK S3000XL

PC (#) 8 PARA BLK CONSISTS OF FOLLOWING P.C. BOARDS.

- 8 PARA/DIO P.C. BOARD
- ANALOG IN P.C. BOARD

3. MAIN P.C. BOARD

Ref. No.	Part No.	Description
D1	ED-344280	D SILICON H GMA-01-FY2 F05
D2	ED-389834J	D SILICON DS135E-FB2 F12 100/1
D4	ED-389834J	D SILICON DS135E-FB2 F12 100/1
D11	ED-344280	D SILICON H GMA-01-FY2 F05
D12	ED-389834J	D SILICON DS135E-FB2 F12 100/1
FL1	EH-410420J	FILTER EMI DSS306-93B101MT05
FL2	EH-410420J	FILTER EMI DSS306-93B101MT05
FL3	EH-410420J	FILTER EMI DSS306-93B101MT05
FL4	EH-410420J	FILTER EMI DSS306-93B101MT05
FL5	EH-410420J	FILTER EMI DSS306-93B101MT05
FL6	EH-410420J	FILTER EMI DSS306-93B101MT05
FL8	EH-405610J	FILTER EMI DSS310H54B 222M 250
FL36	EH-410420J	FILTER EMI DSS306-93B101MT05
FL37	EH-410420J	FILTER EMI DSS306-93B101MT05
FL41	EH-410420J	FILTER EMI DSS306-93B101MT05
FL46	EH-410420J	FILTER EMI DSS306-93B101MT05
FR14	⚠ ER-200972	R FUSE H S10 ERD2FC 1/4W 33R0G
FS1	⚠ EF-373142	FUSE ICP-N25 50V 1.0A
FS2	⚠ EF-376821	FUSE ICP-N15 50V 0.6A
FS3	⚠ EF-376821	FUSE ICP-N15 50V 0.6A
IB1	EH-349374	COMP R RKC1/8B8 472J
IB2	EH-384817J	COMP R RKC1/8B8 102J
IB3	EH-408860J	COMP R RKC1/8B9 111J
IB4	EH-408860J	COMP R RKC1/8B9 111J
IC1	EI-430684J	IC UPD70236AGD-16-5BB
IC2	EI-430680J	IC M51957AL
IC3	EI-388712J	IC HD74HC245P
IC4	EI-430668J	IC PALCE16V8Q-15PC L6039A
IC5	EI-430682J	IC TC74AC257P
IC6	EI-430682J	IC TC74AC257P
IC7	EI-388711J	IC HD74HC00P
IC8	EI-388709J	IC HD74HC32P
IC9-A	EI-432915J	IC UPD424260G5-70-7JF [NEW]
IC9-B	EI-430679J	IC HM514260AZ-8 [OLD]
IC10-A	EI-432915J	IC UPD424260G5-70-7JF [NEW]
IC10-B	EI-430679J	IC HM514260AZ-8 [OLD]
IC11	EI-386289J	IC HD74HC138P
IC12-A	EI-810021J	IC AM27C040-150DC S3000XLV1.06 [PROGRAM ROM]
IC12-B	EI-427280J	IC AM27C040-150DC [BLANK ROM]
IC13	EI-379657J	IC MB89255A-P-G
IC14	EI-378276	IC LC7981
IC15	EI-427660J	IC BR6216B-10LL
IC16	EI-430669J	IC PALCE16V8Q-15PC L6039B
IC17	EI-413121J	IC UPD72069GF-3BA
IC18	EI-388602J	IC MB89352A-P-G
IC19	EI-410389J	IC PQ30RV1
IC20	EI-413120J	IC L7A1045 L6028 DSP-A
IC21	EI-429988J	IC AV9173-01-CN8
IC23	EI-430678J	IC HD74AC244P
IC24	EI-430673J	IC PALCE20V8Q-15PC L6039A
IC25	EI-430670J	IC PALCE16V8Q-15PC L6039C
IC26	EI-397090J	IC HD74HC273P
IC27	EI-393702J	IC HD74HC595P
IC28	EI-393702J	IC HD74HC595P
IC29	EI-430671J	IC PALCE16V8Q-15PC L6039D
IC30	EI-430674J	IC PALCE20V8Q-15PC L6039B
IC31-A	EI-432772J	IC UPD424400GS-60-9JD [NEW]
IC31-B	EI-430979J	IC HM514400CZ-8 [OLD]
IC32-A	EI-432772J	IC UPD424400GS-60-9JD [NEW]
IC32-B	EI-430979J	IC HM514400CZ-8 [OLD]
IC33-A	EI-432772J	IC UPD424400GS-60-9JD [NEW]
IC33-B	EI-430979J	IC HM514400CZ-8 [OLD]
IC34-A	EI-432772J	IC UPD424400GS-60-9JD [NEW]
IC34-B	EI-430979J	IC HM514400CZ-8 [OLD]
IC35	EI-389061J	IC HD74AC04P
IC41	EI-388707J	IC HD74HC244P
IC42	EI-412279J1	IC PCM69AP-4
IC43	EI-377101	IC UPC7805HF
IC44	EI-430681J	IC M51958AL
IC45	EI-360043	IC M5220P
IC46	EI-360043	IC M5220P
IC47	EI-393325N	IC M5218AP
IC48	EI-393325N	IC M5218AP
IC49	EI-353227	IC M5216L
IC50	EI-427259J	IC AK5339-VP
IC51	EI-377101	IC UPC7805HF
IC52	EI-413206J	IC NJM7905FA
IC53	EI-377101	IC UPC7805HF
J1	EJ-403478J	DIN J YKF51-5040 5P
J2	EJ-428182J	SOCKET DBLC-J25SAF-20L9 25P
J3	EJ-419240J	SOCKET FCN-235J068-G/0 68P
J5	EJ-424423J	SOCKET 6-176438-7 72P
J6	EJ-424423J	SOCKET 6-176438-7 72P
J11	EJ-354105	PHONE J 2P HLJ0520-110 6.3
J12	EJ-354105	PHONE J 2P HLJ0520-110 6.3
L1	EO-345995N	COIL FIX 1 EL0606RA T05 101J
L11	EO-345990N	COIL FIX 1 EL0606RA T05 470J
PH1	ET-379341	DETECTOR PC910X
P11	EJ-429932J	PLUG 302-50GSB 50P
P13	EJ-429929J	PLUG 302-34GSB 34P
P19	EJ-430689J	PLUG 128A-060P3C-S14N 60P
P20	EJ-430689J	PLUG 128A-060P3C-S14N 60P
RL1	EQ-348929	RELAY SIG G5A-237P 2TR 12V
R130	ER-410305J	R OMF H S12 FS 1W 510J
TR1	ET-386938N	TR DTC123ES T05
TR2	ET-370013	TR 2SA874 Q,R
TR11	ET-366753N	TR DTA114ES T05
W101	EW-810045J	WIRE ASSY L6036-2 W101 34P
X1	EI-396541J	OSC X'TAL HC-49/U 32.000000MHZ

4. 8PARA / DIO P.C. BOARD

Ref. No.	Part No.	Description
FL501	EH-410420J	FILTER EMI DSS306-93B101MT05
FL506	EH-410420J	FILTER EMI DSS306-93B101MT05
FL507	EH-410420J	FILTER EMI DSS306-93B101MT05
FL508	EH-410420J	FILTER EMI DSS306-93B101MT05
FL509	EH-410420J	FILTER EMI DSS306-93B101MT05
FL511	EH-404248J	FILTER EMI DSS310-54B 101M CUT
FL512	EH-404248J	FILTER EMI DSS310-54B 101M CUT
FS501	⚠ EF-376821	FUSE ICP-N15 50V 0.6A
FS502	⚠ EF-373143	FUSE ICP-N38 50V 1.5A
IC501	EI-388707J	IC HD74HC244P
IC502	EI-393696J	IC HD74HC86P
IC503	EI-412279J1	IC PCM69AP-4
IC504	EI-412279J1	IC PCM69AP-4
IC505	EI-412279J1	IC PCM69AP-4
IC506	EI-412279J1	IC PCM69AP-4
IC507	EI-348785	IC M5220L

Ref. No.	Part No.	Description
IC508	EI-348785	IC M5220L
IC509	EI-348785	IC M5220L
IC510	EI-348785	IC M5220L
IC511	EI-348785	IC M5220L
IC512	EI-348785	IC M5220L
IC513	EI-348785	IC M5220L
IC514	EI-348785	IC M5220L
IC515	EI-393325N	IC M5218AP
IC516	EI-393325N	IC M5218AP
IC517	EI-393325N	IC M5218AP
IC518	EI-393325N	IC M5218AP
IC519	EI-379997J	IC YM3623B
IC521	EI-410414J1	IC CS8402A-CP
IC522	EI-377101	IC UPC7805HF
IC524	EI-414841J	IC MC74HCU04N
IC525	EI-394832J	IC HD74HC123AP
J501	EJ-364322	PHONE J 2P HLJ0520-110 W/NUT
J502	EJ-364322	PHONE J 2P HLJ0520-110 W/NUT
J503	EJ-364322	PHONE J 2P HLJ0520-110 W/NUT
J504	EJ-364322	PHONE J 2P HLJ0520-110 W/NUT
J505	EJ-364322	PHONE J 2P HLJ0520-110 W/NUT
J506	EJ-364322	PHONE J 2P HLJ0520-110 W/NUT
J507	EJ-364322	PHONE J 2P HLJ0520-110 W/NUT
J508	EJ-364322	PHONE J 2P HLJ0520-110 W/NUT
J509	EJ-430794J	PIN J YKC21-3045 2P
T501	EO-414952J	TRANS PULSE CIT0705D-35101
W501	EW-430793J	WIRE ASSY L6036-2 W501 34P
X501	EI-374176	OSC X'TAL AT-51 16.9344MHZ

5. ANALOG IN P.C. BOARD

Ref. No.	Part No.	Description
IC201	EI-360043	IC M5220P
IC202	EI-348785	IC M5220L
IC203	EI-348785	IC M5220L
J201	EJ-372275	PHONE J 3P HLJ0520-010 W/NUT 6.3
J202	EJ-372275	PHONE J 3P HLJ0520-010 W/NUT 6.3

6. FILTER P.C. BOARD

Ref. No.	Part No.	Description
C1	⚠ EC-410346J	C CE V DE1110E102M 400AC
C2	⚠ EC-410346J	C CE V DE1110E102M 400AC
C3	⚠ EC-410346J	C CE V DE1110E102M 400AC
C4	⚠ EC-410346J	C CE V DE1110E102M 400AC
C5	⚠ EC-425606J	C MMY V CUT MMRC 683M 275AC
C6	⚠ EC-427562J	C MMY V CUT MKP3362 103M 275AC
C7	⚠ EC-427562J	C MMY V CUT MKP3362 103M 275AC (B,E,V)
L1-A	⚠ EO-427837J	COIL LF LF-4D 822 (A,J)
L1-B	⚠ EO-416860J	COIL LF LF-4DA 183 (B,E,V)

7. PHONE P.C. BOARD

Ref. No.	Part No.	Description
J2	EJ-372275	PHONE J 3P HLJ0520-010 W/NUT 6.3 (PHONES)
R7	ER-430691J	R OMF H S12 FS 1W 101J
R8	ER-430691J	R OMF H S12 FS 1W 101J

8. VOLUME P.C. BOARD

Ref.No.	Part No.	Description
VR1	EV-425557J	VR ROTARY RK16312A0 L30B103X2 (MAIN VOLUME)
VR2	EV-430796J	VR ROTARY RK16312A0 C503X2 (REC GAIN VOLUME)

9. OPERATION P.C. BOARD

Ref. No.	Part No.	Description
IB1	EH-384815J	COMP R RKC1/8B12 103J
IB2	EH-413158J	COMP R RKC1/8B8 471J
SW1	ES-411687N	SW TACT EVQ-PAE05R
SW2	ES-411687N	SW TACT EVQ-PAE05R
SW3	ES-411687N	SW TACT EVQ-PAE05R
SW4	ES-411687N	SW TACT EVQ-PAE05R
SW5	ES-411687N	SW TACT EVQ-PAE05R
SW6	ES-411687N	SW TACT EVQ-PAE05R
SW7	ES-411687N	SW TACT EVQ-PAE05R
SW8	ES-411687N	SW TACT EVQ-PAE05R
SW9	ES-411687N	SW TACT EVQ-PAE05R
SW10	ES-411687N	SW TACT EVQ-PAE05R
SW11	ES-411687N	SW TACT EVQ-PAE05R
SW12	ES-411687N	SW TACT EVQ-PAE05R
SW13	ES-411687N	SW TACT EVQ-PAE05R
SW14	ES-411687N	SW TACT EVQ-PAE05R
SW15	ES-411687N	SW TACT EVQ-PAE05R
SW16	ES-411687N	SW TACT EVQ-PAE05R
SW17	ES-411687N	SW TACT EVQ-PAE05R
SW18	ES-411687N	SW TACT EVQ-PAE05R
SW19	ES-411687N	SW TACT EVQ-PAE05R
SW20	ES-411687N	SW TACT EVQ-PAE05R
SW21	ES-413139J	SW TACT SKHJAB
SW22	ES-413139J	SW TACT SKHJAB
SW23	ES-413139J	SW TACT SKHJAB
SW24	ES-413139J	SW TACT SKHJAB
SW25	ES-413139J	SW TACT SKHJAB
SW26	ES-413139J	SW TACT SKHJAB
SW27	ES-413139J	SW TACT SKHJAB
SW28	ES-413139J	SW TACT SKHJAB
SW29	ES-413140J	SW TACT SKHJGS
SW30	ES-413140J	SW TACT SKHJGS
SW31	ES-413140J	SW TACT SKHJGS
SW32	ES-413140J	SW TACT SKHJGS
SW33	ES-413140J	SW TACT SKHJGS
SW34	ES-413140J	SW TACT SKHJGS
SW35	ES-413140J	SW TACT SKHJGS
SW36	ES-413140J	SW TACT SKHJGS

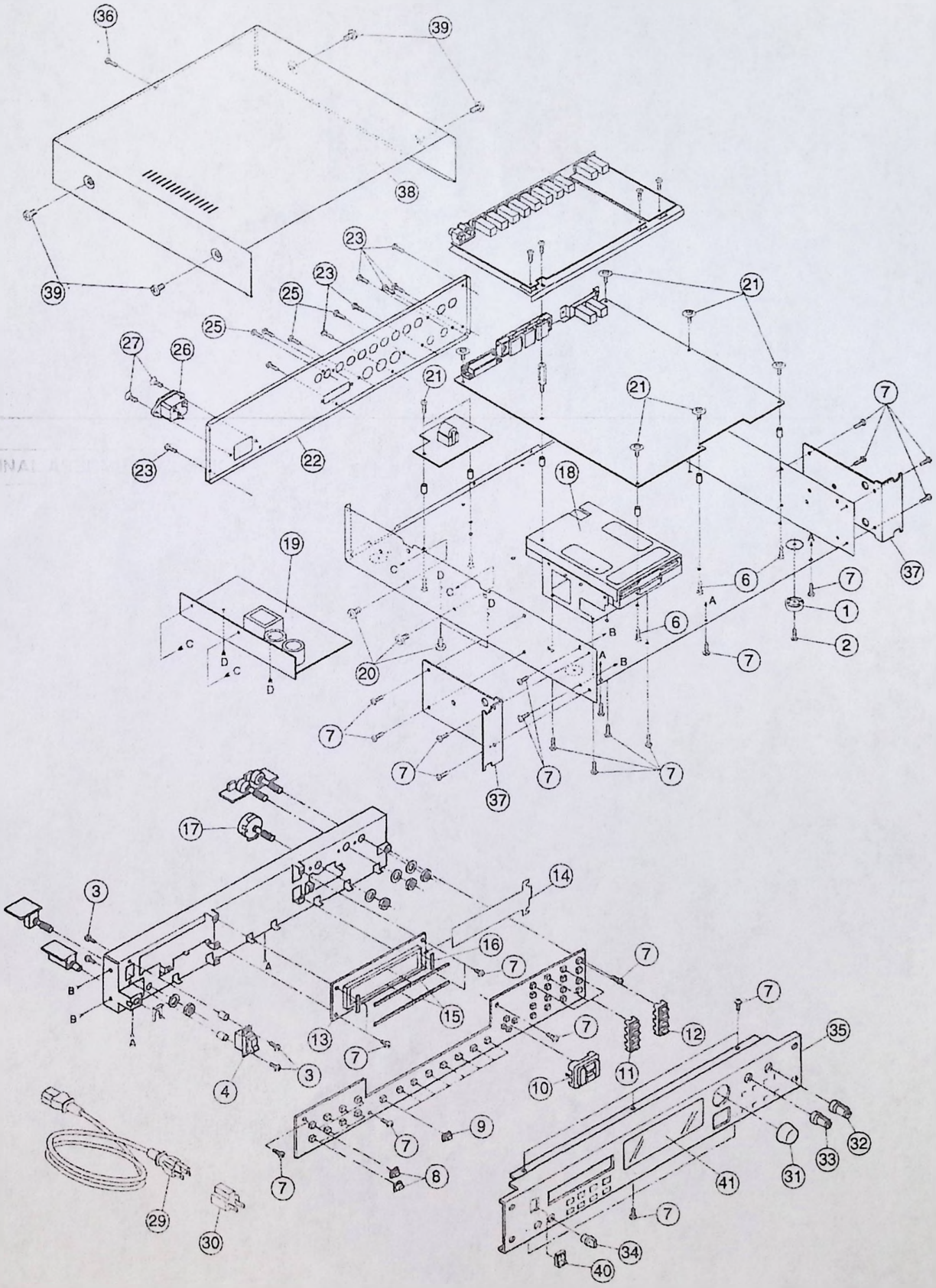
10. CONTRAST VR P.C. BOARD

Ref. No.	Part No.	Description
VR3	EV-412275J	VR ROTARY RK0971112 L20 B502 (CONTRAST VOLUME)

11. EL INV P.C. BOARD

Ref. No.	Part No.	Description
R1	⚠ ER-412299J	R FUSE H S12 ERQ12AJ 1/2W 3R3J
T1	BT-390145J	TRANS PULSE NI05-05-5

FINAL ASSEMBLY BLOCK



12. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
1	SA-349332	FOOT
2	ZS-344754	ST PAN30X06STL CMT C080
3	ZS-422076	PAN30X05STL CMT
4	⚠ ES-427895J	SW SEESAW EST-15992V 02-1 [POWER SW]
6	ZS-379405N	BID30X06STL CMT (SG)
7	ZS-320906	ST BR30X06STL CMT
8	SB-413599J	BUTTON PUSH(A)
9	SB-413600J	BUTTON PUSH(B)
10	SB-413601J1	BUTTON CURSOR
11	SB-413597J	BUTTON TENKEY(A)
12	SB-413598J	BUTTON TENKEY(B)
13	EM-418780J	IND LCD NFM243N20
14	EL-733752J	EL BACK LIGHT (C)
15	SZ-407140J	SEAL DUST C
16	SZ-407141J	SEAL DUST D
17	ES-414627J	SW ROTARY EC24B50D0 [DATA VOLUME]
18	BB-431283J	FDD D359T5 R69-1324
19	⚠ BP-397454J	SW POW PMC50E4XULA 100/200 [POWER BLOCK]
20	ZS-417150	PAN40X06STL CMT
21	ZS-428277J	PAN30X06STL CMT POLY WAVE
22	SP-430145J	PANEL REAR S3000XL
23	ZS-345272	ST BR30X06STL BNI
25	ZS-350934	PT BR30X08STL BNI
26	⚠ EJ-358632J2	SOCKET INLET SOT-16 3P
27	ZS-362534	T2CTS30X10STL BNI
29-A	⚠ EW-380905J	AC CORD 250S KP300 KS16A H B J [J]
29-B	⚠ EW-368420J1	AC CORD200SKP30KS16 BAC [A]
29-C	⚠ EW-403993J	AC CORD200SKP4819DKS31A B E [E,V]
29-D	⚠ EW-419170J	AC CORD200S KP610 KS31A B [B]
30	⚠ EJ-405424J	PLUG ADAPTOR KPR-25 [J]
31	SK-411156J	KNOB CONTROL [DATA]
32	SK-411144J	KNOB VOL PART(1) [MAIN]
33	SK-411147J	KNOB VOL PART(2) [REC]
34	SK-413636J	KNOB VOL GR [CONTRAST]
35	SP-430213J	PANEL FRONT S3000XL
36	ZS-418385J	BT BID30X06STL BNI EARTH LOCK
37	SP-413330J1	PANEL ANGLE
38	SP-415289J	COVER UPPER(MASKING)
39	ZS-357953	ST BID40X08STL NI3 EARTH LOCK
40	SE-413248J	ESCUTCHEON POWER
41	SE-413628J	WINDOW LCD(C)

NOTE :

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

6-3. Model S3200XL

1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref. No.	Part No.	Description
1	BB-431283J	FDD D359T5 R69-1324
2	⚠ BP-431265J	SW POW PMC50E1XULA [POWER BLOCK]
3	BT-390145J	TRANS PULSE NI05-05-5
4	ED-389834J	D SILICON DS135E-FB2 F12 100/1
5	ED-327057	D SILICON H DS442X
6	ED-344280	D SILICON H GMA-01-FY2 F05
7	⚠ EF-373142	FUSE ICP-N25 50V 1.0A
8	EH-355321	COMP R RKC1/8B13 103J
9	EH-384817J	COMP R RKC1/8B8 102J
10	EH-413158J	COMP R RKC1/8B8 471J
11	EH-349374	COMP R RKC1/8B8 472J
12	EH-408860J	COMP R RKC1/8B9 111J
13	EI-422329J	IC AK5328-VP
14	EI-427280J	IC AM27C040-150DC [BLANK ROM]
15	EI-429988J	IC AV9173-01-CN8
16	EI-427660J	IC BR6216B-10LL
17	EI-410414J1	IC CS8402A-CP
18	EI-389061J	IC HD74AC04P
19	EI-394832J	IC HD74HC123AP
20	EI-393695J	IC HD74HC154P
21	EI-388712J	IC HD74HC245P
22	EI-388709J	IC HD74HC32P
23	EI-427843J	IC HD74HC367P
24	EI-393702J	IC HD74HC595P
25	EI-430679J	IC HM514260AZ-8 [OLD]
26	EI-430810J	IC ICS2008V
27	EI-378276	IC LC7981
28	EI-414695J	IC L7A0986 L6029 DFL
29	EI-413120J	IC L7A1045 L6028 DSP-A
30	EI-427564J	IC L7A1414 L6038 DFX
31	EI-419090J	IC MB81C4256A-80PSZ-G
32	EI-401214J	IC MB89255B-PFS-G-BND
33	EI-388602J	IC MB89352A-P-G
34	EI-375185	IC M51953BL
35	EI-356160	IC M5216P
36	EI-360043	IC M5220P
37	EI-362588J1	IC M5238AP
38	EI-377191	IC NJM5532D-D
39	EI-336995	IC NJM78L05A
40	EI-400856J	IC NJM78M05FA
41	EI-360772	IC NJM79L05A
42	EI-400855J	IC NJM79M05FA
43	EI-430814J	IC PALCE 16V8Q-15PC L6039A
44	EI-430803J	IC PALCE 16V8Q-15PC L6038B
45	EI-430804J	IC PALCE 16V8Q-15PC L6038C
46	EI-430807J	IC PALCE 16V8Q-15PC L6038E
47	EI-430808J	IC PALCE 16V8Q-15PC L6038F
48	EI-430805J	IC PALCE 20V8Q-15PC L6038D
49	EI-386311J	IC PCM61P
50	EI-410559J	IC PCM63P-J
51	EI-410389J	IC PQ30RV1
52	EI-413131J	IC SM5840EP
53	EI-430682J	IC TC74AC257P
54	EI-360038J1	IC TC74HC02AP
55	EI-413130J	IC UPC812C
56	EI-430815J	IC UPD4217400G3-70-7JD
57	EI-432915J	IC UPD424260G5-70-7JF [NEW]
58	EI-430776J	IC UPD431000AGW-85L
59	EI-430684J	IC UPD70236AGD-16-5B8
60	EI-413121J	IC UPD72069GF-3BA
61	EI-379997J	IC YM3623B
62	EI-374176	OSC X'TAL AT-51 16.9344MHZ
63	EI-396541J	OSC X'TAL HC-49/U 32.000000MHZ
64	EJ-408862J	SOCKET OPTICAL TORX173
65	EJ-414697J	SOCKET OPTICAL TOTX173
66	EL-733752J	EL BACK LIGHT (C)
67	EM-418780J	IND LCD NFM243N20
68	EQ-348929	RELAY SIG G5A-237P 2TR 12V
69	EQ-413152J	RELAY SIG G6B-2014C-US 5V
70	⚠ ER-200972	R FUSE H S10 ERD2FC 1/4W 33R0G
71	⚠ ER-318647	R FUSE H S10 ERD2FC 1/4W 4R7J
72	⚠ ER-412299J	R FUSE H S12 ERQ12AJ 1/2W 3R3J
73	ES-379609	(SW SLIDE SSSP12 2-03-12)
74	ES-414627J	SW ROTARY EC24B50D0 [DATA VOLUME]
75	⚠ ES-413128J	SW SEESAW EST15962V [POWER SW]
76	ES-411687N	SW TACT EVQ-PAE05R
77	ES-413139J	SW TACT SKHJAB
78	ES-413140J	SW TACT SKHJGS
79	ET-378219	DETECTOR PC6N137
80	ET-386938N	TR DTC123ES T05
81	ET-349593	TR 2SA1348 F05
82	ET-370013	TR 2SA874 Q,R
83	ET-413154J	TR 2SC3918
84	ET-413151J	TR 2SD1661M
85	EV-413118J	VR ROTARY RK16312A A103X2 [REC LEVEL VOLUME]
86	EV-414633J	VR SPL RK0971112 SW B502 [CONTRAST VOLUME]

2. P.C. BOARD BLOCK

Ref. No.	Part No.	Description
1	BA-L6038A020B	PC(#) MAIN BLK S3200XL(B)
2	BA-L6028A060C	PC AD/DA BLK S3200XL
3	BA-L6028A070A	PC OUT PUT BLK S3000
4	BA-L6028A080A	PC PANEL BLK S3000 (OPERATION P.C. BOARD)
5-A	BA-L6028A020E	PC(#) FILTER BLK S3200XL(A) (A,J)
5-B	BA-L6028A020F	PC(#) FILTER BLK S3200XL(E) (E,V,B)
6	BA-L6038A030A	PC EFFECT BLK S3200XL

PC (#) MAIN BLK CONSISTS OF FOLLOWING P.C. BOARD.
- MAIN P.C. BOARD
- SCSI/OPT P.C. BOARD
- DIO JACK P.C. BOARD

PC (#) FILTER BLK CONSISTS OF FOLLOWING P.C. BOARD.
- FILTER P.C. BOARD
- POWER SUPPLY P.C. BOARD
- MIDI P.C. BOARD
- CONTRAST VR P.C. BOARD
- JACK (1) P.C. BOARD
- JACK (2) P.C. BOARD
- JACK (3) P.C. BOARD
- VR P.C. BOARD

3. MAIN P.C. BOARD

Ref. No.	Part No.	Description
D2	ED-389834J	D SILICON DS135E-FB2 F12 100/1
D3	ED-344280	D SILICON H GMA-01-FY2 F05
D4	ED-344280	D SILICON H GMA-01-FY2 F05
D5	ED-344280	D SILICON H GMA-01-FY2 F05
D6	ED-344280	D SILICON H GMA-01-FY2 F05
FL56	EH-410420J	FILTER EMI DSS306-93B101MT05
FL57	EH-410420J	FILTER EMI DSS306-93B101MT05
FL58	EH-410420J	FILTER EMI DSS306-93B101MT05
FL59	EH-410420J	FILTER EMI DSS306-93B101MT05
FL60	EH-410420J	FILTER EMI DSS306-93B101MT05
FL61	EH-410420J	FILTER EMI DSS306-93B101MT05
FL62	EH-410420J	FILTER EMI DSS306-93B101MT05
FL63	EH-410420J	FILTER EMI DSS306-93B101MT05
FL64	EH-410420J	FILTER EMI DSS306-93B101MT05
FL103	EH-405610J	FILTER EMI DSS310H54B 222M 250
FL232	EH-410420J	FILTER EMI DSS306-93B101MT05
FL403	EH-410420J	FILTER EMI DSS306-93B101MT05
FL428	EH-405610J	FILTER EMI DSS310H54B 222M 250
F3	⚠ EF-373142	FUSE ICP-N25 50V 1.0A
IB1	EH-408860J	COMP R RKC1/8B9 111J
IB2	EH-408860J	COMP R RKC1/8B9 111J
IB3	EH-384817J	COMP R RKC1/8B8 102J
IB4	EH-349374	COMP R RKC1/8B8 472J
IC1	EI-430682J	IC TC74AC257P
IC2	EI-430682J	IC TC74AC257P
IC3-A	EI-432915J	IC UPD424260G5-70-7JF (NEW)
IC3-B	EI-430679J	IC HM514260AZ-8 (OLD)
IC4	EI-375185	IC M51953BL
IC5	EI-388712J	IC HD74HC245P
IC6	EI-389061J	IC HD74AC04P
IC7-A	EI-810023J	IC AM27C040-150DC S3200XLV1.05 (PROGRAM ROM)
IC7-B	EI-427280J	IC AM27C040-150DC (BLANK ROM)
IC8-A	EI-432915J	IC UPD424260G5-70-7JF (NEW)
IC8-B	EI-430679J	IC HM514260AZ-8 (OLD)
IC9	EI-393695J	IC HD74HC154P
IC10	EI-430684J	IC UPD70236AGD-16-5BB
IC11	EI-336995	IC NJM78L05A
IC12	EI-430814J	IC PALCE 16V8Q-15PC L6038A
IC13	EI-430807J	IC PALCE 16V8Q-15PC L6038E
IC14	EI-378276	IC LC7981
IC15	EI-401214J	IC MB89255B-PFS-G-BND
IC16	EI-427660J	IC BR6216B-10LL
IC17	EI-413121J	IC UPD72069GF-3BA
IC18	EI-388602J	IC MB89352A-P-G
IC19	EI-410389J	IC PQ30RV1
IC20	EI-393702J	IC HD74HC595P
IC21	EI-393702J	IC HD74HC595P
IC22	EI-379997J	IC YM3623B
IC23	EI-429988J	IC AV9173-01-CN8
IC24	EI-410414J1	IC CS8402A-CP
IC25	EI-394832J	IC HD74HC123AP
IC26	EI-360038J1	IC TC74HC02AP
IC29	EI-427843J	IC HD74HC367P
IC30	EI-401214J	IC MB89255B-PFS-G-BND
IC31	EI-430805J	IC PALCE 20V8Q-15PC L6038D
IC32	EI-430808J	IC PALCE 16V8Q-15PC L6038F
IC37	EI-430803J	IC PALCE 16V8Q-15PC L6038B
IC38	EI-430804J	IC PALCE 16V8Q-15PC L6038C
IC39	EI-430810J	IC ICS2008V
IC40	EI-414695J	IC L7A0986 L6029 DFL
IC41	EI-419090J	IC MB81C4256A-80PSZ-G
IC42	EI-413120J	IC L7A1045 L6028 DSP-A
IC43	EI-336995	IC NJM78L05A
IC301	EI-430815J	IC UPD4217400G3-70-7JD
IC302	EI-430815J	IC UPD4217400G3-70-7JD
IC303	EI-430815J	IC UPD4217400G3-70-7JD
IC304	EI-430815J	IC UPD4217400G3-70-7JD
IC305	EI-430815J	IC UPD4217400G3-70-7JD
IC306	EI-430815J	IC UPD4217400G3-70-7JD
IC307	EI-430815J	IC UPD4217400G3-70-7JD
IC308	EI-430815J	IC UPD4217400G3-70-7JD
J7	EJ-424423J	SOCKET 6-176438-7 72P
P1	EJ-429929J	PLUG 302-34GSB 34P
P6	EJ-429928J	PLUG 302-26GSB 26P
P8	EJ-429932J	PLUG 302-50GSB 50P
P9	EJ-429931J	PLUG 302-40GSB 40P
P11	EJ-430689J	PLUG 128A-060P3C-S14N 60P
P12	EJ-430689J	PLUG 128A-060P3C-S14N 60P
P14	EJ-429929J	PLUG 302-34GSB 34P
R14	⚠ ER-200972	R FUSE H S10 ERD2FC 1/4W 33R0G
R16	⚠ ER-412299J	R FUSE H S12 ERQ12AJ 1/2W 3R3J
TR3	ET-349593	TR 2SA1348 F05
TR5	ET-386938N	TR DTC123ES T05
TR12	ET-370013	TR 2SA874 Q,R
T1	BT-390145J	TRANS PULSE NI05-05-5
X1	EI-396541J	OSC X'TAL HC-49/U 32.000000MHZ
X2	EI-374176	OSC X'TAL AT-51 16.9344MHZ

4. SCSI / OPT P.C. BOARD

Ref. No.	Part No.	Description
J2	EJ-414697J	SOCKET OPTICAL TOTX173
J3	EJ-408862J	SOCKET OPTICAL TORX173
J20	EJ-428182J	SOCKET DBLC-J25SAF-20L9 25P
L2	EO-351868	COIL FIX 1 LAP02 F05 470K
R23	⚠ ER-318647	R FUSE H S10 ERD2FC 1/4W 4R7J
W200	EW-427659J	WIRE ASSY L6038-2 W200 34P

5. DIO JACK P.C. BOARD

Ref. No.	Part No.	Description
FL7	EH-429990J	FILTER EMI STB101KBA F05
FL8	EH-429990J	FILTER EMI STB101KBA F05
FL9	EH-429990J	FILTER EMI STB101KBA F05
FL10	EH-429990J	FILTER EMI STB101KBA F05
FL11	EH-429990J	FILTER EMI STB101KBA F05
FL12	EH-429990J	FILTER EMI STB101KBA F05
FL13	EH-429990J	FILTER EMI STB101KBA F05
J4	EJ-390189J	PHONE J 3P HLJ0544-010 W/NUT
J5	EJ-390189J	PHONE J 3P HLJ0544-010 W/NUT
J9	EJ-390189J	PHONE J 3P HLJ0544-010 W/NUT
J10	EJ-430809J	PHONE J 3P HLJ0544-110 W/NUT
T2	EO-414952J	TRANS PULSE CIT0705D-35101
T3	EO-414952J	TRANS PULSE CIT0705D-35101

6. POWER SW P.C. BOARD

Ref. No.	Part No.	Description
C401	⚠EC-427562J	C MMY V CUT MKP3362 103M 275AC [E,V,B]
C402	⚠EC-427562J	C MMY V CUT MKP3362 103M 275AC

7. AD / DA P.C. BOARD

Ref. No.	Part No.	Description
D1	ED-327057	D SILICON H DS442X
D2	ED-389834J	D SILICON DS135E-FB2 F12 100/1
FL4	EH-410420J	FILTER EMI DSS306-93B101MT05
IC1	EI-360043	IC M5220P
IC2	EI-360043	IC M5220P
IC3	EI-362588J1	IC M5238AP
IC4	EI-362588J1	IC M5238AP
IC5	EI-413130J	IC UPC812C
IC6	EI-422329J	IC AK5328-VP
IC7	EI-336995	IC NJM78L05A
IC8	EI-360772	IC NJM79L05A
IC9	EI-400855J	IC NJM79M05FA
IC10	EI-400856J	IC NJM78M05FA
IC11	EI-336995	IC NJM78L05A
IC12	EI-413131J	IC SM5840EP
IC13	EI-410559J	IC PCM63P-J
IC14	EI-410559J	IC PCM63P-J
IC15	EI-377191	IC NJM5532D-D
IC16	EI-377191	IC NJM5532D-D
IC17	EI-377191	IC NJM5532D-D
IC18	EI-377191	IC NJM5532D-D
IC19	EI-360043	IC M5220P
IC20	EI-360043	IC M5220P
IC21	EI-356160	IC M5216P
J501	EJ-413136J	SOCKET RECEPTACLE XLM-3-31PCV
J502	EJ-413136J	SOCKET RECEPTACLE XLM-3-31PCV
P501	EJ-413137J	SOCKET RECEPTACLE XLM-3-32PCV
P502	EJ-413137J	SOCKET RECEPTACLE XLM-3-32PCV
RL1	EQ-348929	RELAY SIG G5A-237P 2TR 12V
RL2	EQ-348929	RELAY SIG G5A-237P 2TR 12V
RL3	EQ-348929	RELAY SIG G5A-237P 2TR 12V
R36	ER-322787	R CB H S10 FS RDS 1/4W 100J
SW1	ES-379609	(SW SLIDE SSSP12 2-03-12)
TR1	ET-413154J	TR 2SC3918
W501	EW-430819J	WIRE ASSY L6038-2 W501 40P
W502	EW-429818J	WIRE ASSY L6028-2 W502 20P

8. OUT PUT P.C. BOARD

Ref. No.	Part No.	Description
IC1	EI-413131J	IC SM5840EP
IC2	EI-413131J	IC SM5840EP
IC3	EI-413131J	IC SM5840EP
IC4	EI-413131J	IC SM5840EP
IC7	EI-400856J	IC NJM78M05FA
IC8	EI-400856J	IC NJM78M05FA
IC9	EI-400855J	IC NJM79M05FA
IC10	EI-360043	IC M5220P
IC11	EI-360043	IC M5220P
IC12	EI-360043	IC M5220P
IC13	EI-360043	IC M5220P
IC14	EI-360043	IC M5220P
IC15	EI-360043	IC M5220P
IC16	EI-360043	IC M5220P
IC17	EI-360043	IC M5220P
IC18	EI-400855J	IC NJM79M05FA
IC101	EI-386311J	IC PCM61P
IC201	EI-386311J	IC PCM61P
IC301	EI-386311J	IC PCM61P
IC401	EI-386311J	IC PCM61P
IC501	EI-386311J	IC PCM61P
IC601	EI-386311J	IC PCM61P
IC701	EI-386311J	IC PCM61P
IC801	EI-386311J	IC PCM61P
J601	EJ-354105	PHONE J 2P HLJ0520-110 6.3
J602	EJ-354105	PHONE J 2P HLJ0520-110 6.3
J603	EJ-354105	PHONE J 2P HLJ0520-110 6.3
J604	EJ-354105	PHONE J 2P HLJ0520-110 6.3
J605	EJ-354105	PHONE J 2P HLJ0520-110 6.3
J606	EJ-354105	PHONE J 2P HLJ0520-110 6.3
J607	EJ-354105	PHONE J 2P HLJ0520-110 6.3
J608	EJ-354105	PHONE J 2P HLJ0520-110 6.3
P601	EJ-429927J	PLUG 302-20GSB 20P
VR101	EV-410614J	R S-FIX H PK50HO 0.50W 10K
VR201	EV-410614J	R S-FIX H PK50HO 0.50W 10K
VR301	EV-410614J	R S-FIX H PK50HO 0.50W 10K
VR401	EV-410614J	R S-FIX H PK50HO 0.50W 10K
VR501	EV-410614J	R S-FIX H PK50HO 0.50W 10K
VR601	EV-410614J	R S-FIX H PK50HO 0.50W 10K
VR701	EV-410614J	R S-FIX H PK50HO 0.50W 10K
VR801	EV-410614J	R S-FIX H PK50HO 0.50W 10K

9. OPERATION P.C. BOARD

Ref. No.	Part No.	Description
IB1	EH-355321	COMP R RKC1/8B13 103J
IB2	EH-413158J	COMP R RKC1/8B8 471J
SW1	ES-413139J	SW TACT SKHJAB
SW2	ES-413139J	SW TACT SKHJAB
SW3	ES-413139J	SW TACT SKHJAB
SW4	ES-413139J	SW TACT SKHJAB
SW5	ES-413139J	SW TACT SKHJAB
SW6	ES-413139J	SW TACT SKHJAB
SW7	ES-413139J	SW TACT SKHJAB
SW8	ES-413139J	SW TACT SKHJAB
SW9	ES-413140J	SW TACT SKHJGS
SW10	ES-413140J	SW TACT SKHJGS
SW11	ES-413140J	SW TACT SKHJGS
SW12	ES-413140J	SW TACT SKHJGS
SW13	ES-413140J	SW TACT SKHJGS
SW14	ES-413140J	SW TACT SKHJGS
SW15	ES-413140J	SW TACT SKHJGS
SW16	ES-413140J	SW TACT SKHJGS
SW17	ES-411687N	SW TACT EVQ-PAE05R
SW18	ES-411687N	SW TACT EVQ-PAE05R
SW19	ES-411687N	SW TACT EVQ-PAE05R
SW20	ES-411687N	SW TACT EVQ-PAE05R
SW21	ES-411687N	SW TACT EVQ-PAE05R
SW22	ES-411687N	SW TACT EVQ-PAE05R
SW23	ES-411687N	SW TACT EVQ-PAE05R
SW24	ES-411687N	SW TACT EVQ-PAE05R
SW25	ES-411687N	SW TACT EVQ-PAE05R

Ref. No.	Part No.	Description
SW26	ES-411687N	SW TACT EVQ-PAE05R
SW27	ES-411687N	SW TACT EVQ-PAE05R
SW28	ES-411687N	SW TACT EVQ-PAE05R
SW29	ES-411687N	SW TACT EVQ-PAE05R
SW30	ES-411687N	SW TACT EVQ-PAE05R
SW31	ES-411687N	SW TACT EVQ-PAE05R
SW32	ES-411687N	SW TACT EVQ-PAE05R
SW33	ES-411687N	SW TACT EVQ-PAE05R
SW34	ES-411687N	SW TACT EVQ-PAE05R
SW35	ES-411687N	SW TACT EVQ-PAE05R
SW36	ES-411687N	SW TACT EVQ-PAE05R
W701	EW-429819J	WIRE ASSY L6028-2 W701 26P

10. FILTER P.C. BOARD

Ref. No.	Part No.	Description
C1	EC-425606J	C MMY V CUT MMRC 683M 275AC
C2	⚠ EC-410346J	C CE V DE1110E102M 400AC
C3	⚠ EC-410346J	C CE V DE1110E102M 400AC
C4	⚠ EC-410346J	C CE V DE1110E102M 400AC
C5	⚠ EC-410346J	C CE V DE1110E102M 400AC [E,V,B]
L1-A	⚠ EO-389172J	COIL LF LF-4N 502 [A,J]
L1-B	⚠ EO-416860J	COIL LF LF-4DA 183 [E,V,B]

11. POWER SUPPLY P.C. BOARD

Ref. No.	Part No.	Description
D7	ED-389834J	D SILICON DS135E-FB2 F12 100/1
D8	ED-389834J	D SILICON DS135E-FB2 F12 100/1
RL1	EQ-413152J	RELAY SIG G6B-2014C-US 5V
R9	ER-366065	R OMF H S12 FS 1W 470J
TR4	ET-413151J	TR 2SD1661M

12. MIDI P.C. BOARD

Ref. No.	Part No.	Description
D1	ED-344280	D SILICON H GMA-01-FY2 F05
FL1	EH-410420J	FILTER EMI DSS306-93B101MT05
FL2	EH-410420J	FILTER EMI DSS306-93B101MT05
FL3	EH-410420J	FILTER EMI DSS306-93B101MT05
FL4	EH-410420J	FILTER EMI DSS306-93B101MT05
FL5	EH-410420J	FILTER EMI DSS306-93B101MT05
FL6	EH-410420J	FILTER EMI DSS306-93B101MT05
FL7	EH-410420J	FILTER EMI DSS306-93B101MT05
IC1	EI-388709J	IC HD74HC32P
J401	EJ-403478J	DIN J YKF51-5040 5P
PH1	ET-378219	DETECTOR PC6N137

13. CONTRAST VR P.C. BOARD

Ref. No.	Part No.	Description
VR3	EV-414633J	VR SPL RK0971112 SW B502 [CONTRAST VOLUME]

14. JACK (1) P.C. BOARD

Ref. No.	Part No.	Description
J402	EJ-353031	PHONE J 3P HLJ0520-010 [INPUT L]
J403	EJ-353031	PHONE J 3P HLJ0520-010 [INPUT R]

15. JACK (2) P.C. BOARD

Ref. No.	Part No.	Description
J404	EJ-357159	PHONE J 2P HLJ0520-110 W/NUT [OUTPUT L]
J405	EJ-357159	PHONE J 2P HLJ0520-110 W/NUT [OUTPUT R]

16. JACK (3) P.C. BOARD

Ref. No.	Part No.	Description
FL1	EH-410420J	FILTER EMI DSS306-93B101MT05
FL2	EH-410420J	FILTER EMI DSS306-93B101MT05
J406	EJ-379523	PHONE J 3P HLJ4305-3080 S.NUT [FOOT SW]
J407	EJ-353031	PHONE J 3P HLJ0520-010 [PHONES]
R1	ER-430691J	R OMF H S12 FS 1W 101J
R2	ER-430691J	R OMF H S12 FS 1W 101J

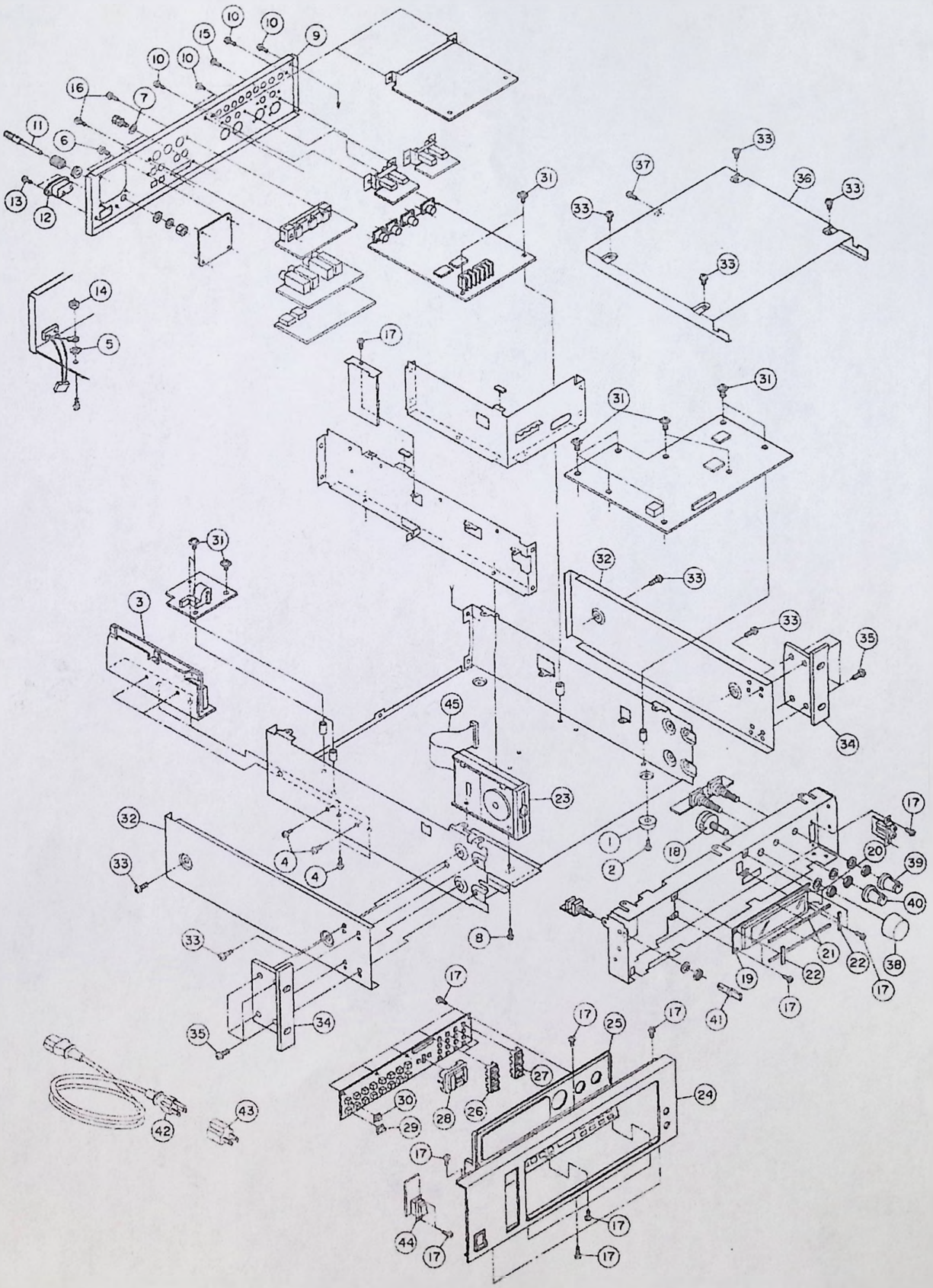
17. VR P.C. BOARD

Ref. No.	Part No.	Description
VR1	EV-413118J	VR ROTARY RK16312AA103X2 [REC LEVEL VOLUME]
VR2	EV-413118J	VR ROTARY RK16312AA103X2 [MAIN VOLUME]

18. EFFECT P.C. BOARD

Ref. No.	Part No.	Description
IC1	EI-427564J	IC L7A1414 L6038 DFX
IC2	EI-430776J	IC UPD431000AGW-85L
IC3	EI-430776J	IC UPD431000AGW-85L
IC4	EI-430776J	IC UPD431000AGW-85L
IC5	EI-430682J	IC TC74AC257P
P1	EJ-431264J	PLUG 128A-044P2B-L14A 44P

FINAL ASSEMBLY BLOCK



19. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
1	SA-349332	FOOT
2	ZS-344754	ST PAN30X06STL CMT C080
3	⚠ BP-431265J	SW POW PMC50E1XULA [POWER BLOCK]
4	ZS-417150	PAN40X06STL CMT
5	ZW-273892	TWA40STL CMT
6	ZS-341960	ST BID40X06STL BNI
7	ZW-317801	TW26
8	ZS-379405N	BID30X06STL CMT (SG)
9	SP-430148J	PANEL REAR S3200XL
10	ZS-345272	ST BR30X06STL BNI
11	EJ-376872	TERMINAL SCREW1821T098-00
12	⚠ EJ-358632J2	SOCKET INLET SOT-163P
13	ZS-336612	ST CTS30X08STL BNI
14	ZW-413267	N FRANGE 40STL CMT
15	ZS-355511	BID30X06STL BNI
16	ZS-350934	PT BR30X08STL BNI
17	ZS-320906	ST BR30X06STL CMT
18	ES-414627J	SW ROTARY EC24B50D0 [DATA VOLUME]
19	EM-418780J	IND LCD NFM243N20
20	EL-733752J	EL BACK LIGHT (C)
21	SZ-401475J1	SEAL DUST A
22	SZ-401476J1	SEAL DUST B
23	BB-431283J	FDD D359T5 R69-1324
24	BD-430229J	PANEL FRONT S3200XL PART
25	BD-427558J	PANEL OPERATION-2 PART
26	SB-413597J	BUTTON TENKEY(A)
27	SB-413598J	BUTTON TENKEY(B)
28	SB-413601J1	BUTTON CURSOR
29	SB-413599J	BUTTON PUSH(A)
30	SB-413600J	BUTTON PUSH(B)
31	ZS-428277J	PAN30X06STL CMT POLY WAVE
32	SP-413448J	COVER SIDE
33	ZS-341959	ST BID40X06STL NI3
34	GH-413441J1	HANDLE RACK
35	ZS-365316	BID40X12STL NI3
36	SP-413449J	COVER TOP
37	ZS-418385J	BT BID30X06STL BNI EARTH LOCK
38	SK-411156J	KNOB CONTROL [DATA]
39	SK-411144J	KNOB VOL PART(1) [MAIN]
40	SK-411147J	KNOB VOL PART(2) [REC]
41	SK-413636J	KNOB VOL GR [CONTRAST]
42	⚠ EW-380905J	AC CORD 250S KP300 KS16A H B J [J]
42	⚠ EW-368420J1	AC CORD200SKP30KS16 B AC [A]
42	⚠ EW-403993J	AC CORD200SKP4819DKS31A B E [E,V]
42	⚠ EW-419170J	AC CORD200S KP610 KS31A B [B]
43	⚠ EJ-405424J	PLUG ADAPTOR KPR-25 [J]
44	⚠ ES-413128J	SW SEESAW EST15962V [POWER SW]
45	EW-429820J	WIRE ASSY L6028-2 W907 34P [W907 MAIN TO FDD]

NOTE :

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

Model S2000 (IB-208, EB16)

Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
BAL6039A020A	2-1	EH404248J	12-FL511	EI413120J	3-IC20	ER200746	3-FR123
BB431282J	11-8	EH404248J	12-FL512	EI413121J	3-IC17	ER324185	5-R304
BT430823J1	11-6	EH405610J	3-FL8	EI413206J	3-IC52	ER324185	5-R305
EC379611	5-C301	EH408860J	3-IB3	EI414841J	12-IC524	ER327710	5-R301
EC389895J	5-C304	EH408860J	3-IB4	EI427259J	3-IC50	ER386215J	3-R29
EC389895J	5-C305	EH410420J	3-FL1	EI427564J	13-IC1	ER410305J	3-R130
EC389895J	5-C306	EH410420J	3-FL2	EI429988J	3-IC21	ER430691J	8-R601
EC389895J	5-C307	EH410420J	3-FL3	EI430668J	3-IC4	ER430691J	8-R602
EC410346J	6-C402	EH410420J	3-FL4	EI430669J	3-IC16	ES403377J	9-SW701
EC410346J	6-C403	EH410420J	3-FL5	EI430670J	3-IC25	ES410552J	4-SW203
EC410346J	6-C404	EH410420J	3-FL6	EI430671J	3-IC29	ES410552J	4-SW204
EC410346J	6-C405	EH410420J	3-FL36	EI430673J	3-IC24	ES410552J	4-SW205
EC410497J	5-C302	EH410420J	3-FL37	EI430674J	3-IC30	ES410552J	4-SW206
EC410497J	5-C303	EH410420J	3-FL41	EI430677J	5-IC301	ES410552J	4-SW207
EC425605J	6-C401	EH410420J	3-FL45	EI430678J	3-IC23	ES410552J	4-SW208
EC427562J	10-C801	EH410420J	3-FL46	EI430679J	3-IC9-B	ES410552J	4-SW209
ED344280	3-D1	EH410420J	12-FL501	EI430679J	3-IC10-B	ES410552J	4-SW210
ED344280	3-D11	EH410420J	12-FL506	EI430680J	3-IC2	ES410552J	4-SW211
ED344280	4-D209	EH410420J	12-FL507	EI430681J	3-IC44	ES410552J	4-SW212
ED344280	4-D210	EH410420J	12-FL508	EI430682J	3-IC5	ES410552J	4-SW213
ED344280	4-D211	EH410420J	12-FL509	EI430682J	3-IC6	ES410552J	4-SW214
ED344280	4-D212	EI348123	5-IC302	EI430682J	13-IC5	ES410552J	4-SW215
ED344280	4-D213	EI348785	12-IC507	EI430684J	3-IC1	ES430685J1	10-SW801
ED344280	4-D214	EI348785	12-IC508	EI430776J	13-IC2	ES430686J	4-SW201
ED344280	4-D215	EI348785	12-IC509	EI430776J	13-IC3	ES430686J	4-SW202
ED344280	4-D216	EI348785	12-IC510	EI430776J	13-IC4	ET354083N	5-TR303
ED344280	4-D217	EI348785	12-IC511	EI430979J	3-IC31-B	ET356817N	5-TR302
ED344280	4-D218	EI348785	12-IC512	EI430979J	3-IC32-B	ET366753N	3-TR11
ED344280	4-D219	EI348785	12-IC513	EI430979J	3-IC33-B	ET379341	3-PH1
ED344280	4-D220	EI348785	12-IC514	EI430979J	3-IC34-B	ET430675J	5-TR301
ED344280	4-D221	EI353227	3-IC49	EI430998J	3-X1	EV356323	3-VR1
ED344280	4-D222	EI360043	3-IC45	EI432772J	3-IC31-A	EV430696J	8-VR601
ED344280	4-D223	EI360043	3-IC46	EI432772J	3-IC32-A	EV430697J	7-VR501
ED357038	5-D302	EI360043	7-IC501	EI432772J	3-IC33-A	EW408724M1	11-12-C
ED388539J	4-D201	EI374176	12-X501	EI432772J	3-IC34-A	EW410481M1	11-12-B
ED388539J	4-D202	EI377101	3-IC43	EI432915J	3-IC9-A	EW427587J	11-12-A
ED388539J	4-D203	EI377101	3-IC51	EI432915J	3-IC10-A	EW430651J	11-7
ED388539J	4-D204	EI377101	3-IC53	EI810024J	3-IC12-A	EW430793J	12-W501
ED388539J	4-D205	EI377101	12-IC522	EJ354105	3-J11	EW432645J	4-W201
ED388539J	4-D206	EI377191	7-IC502	EJ354105	3-J12	EW432646J	4-W202
ED388539J	4-D207	EI377191	7-IC503	EJ364322	12-J501	EW432647J	7-W501
ED388539J	4-D208	EI379657J	3-IC13	EJ364322	12-J502	EZ371605	11-11
ED389834J	3-D2	EI379997J	12-IC519	EJ364322	12-J503	EZ412419J	5-1
ED389834J	3-D4	EI386289J	3-IC11	EJ364322	12-J504	SA349332	11-14
ED389834J	3-D12	EI388602J	3-IC18	EJ364322	12-J505	SB429684J	11-30
ED389834J	5-D303	EI388707J	3-IC41	EJ364322	12-J506	SB429685J	11-29
ED400842J	5-D301	EI388707J	12-IC501	EJ364322	12-J507	SB429692J	11-28
EF258344	5-F3-C	EI388709J	3-IC8	EJ364322	12-J508	SB429694J	11-31
EF258344	5-F4-C	EI388711J	3-IC7	EJ403478J	3-J1	SE429691J	11-27
EF308847	6-F1-B	EI388712J	3-IC3	EJ419240J	3-J3	SE429695J	11-21
EF309387	5-F3-A	EI389061J	3-IC35	EJ424423J	3-J5	SE429696J	11-22
EF309387	5-F4-A	EI393325N	3-IC47	EJ424423J	3-J6	SK429686J	11-26
EF310229	5-F3-B	EI393325N	3-IC48	EJ428182J	3-J2	SK429687J	11-25
EF310229	5-F4-B	EI393325N	12-IC515	EJ429926J	3-P9	SK429688J	11-23
EF311839	6-F1-A	EI393325N	12-IC516	EJ429929J	3-P10	SK429689J	11-24
EF326613	5-F2-A	EI393325N	12-IC517	EJ429929J	3-P13	SP429430J1	11-20
EF346139	5-F2-B	EI393325N	12-IC518	EJ430689J	3-P19	SP429683J1	11-1
EF358641	5-F3-D	EI393696J	12-IC502	EJ430689J	3-P20	SP429697J	11-9
EF358641	5-F4-D	EI393702J	3-IC27	EJ430794J	12-J509	SZ429678J	11-19
EF359007	6-F1-D	EI393702J	3-IC28	EJ431264J	13-P1	ZS201275	11-32
EF359086	5-F2-D	EI394832J	12-IC525	EJ432660J	7-J501	ZS320906	11-18
EF373142	3-FS1	EI397090J	3-IC26	EJ432660J	7-J502	ZS322570	11-3
EF373143	12-FS502	EI397343J	3-IC12-B	EJ432660J	8-J601	ZS344754	11-15
EF376821	3-FS2	EI410389J	3-IC19	EM432814J	11-33	ZS345272	11-10
EF376821	3-FS3	EI410414J1	12-IC521	EO345990N	3-L11	ZS350934	11-13
EF376821	12-FS501	EI412279J1	3-IC42	EO345995N	3-L1	ZS379405N	11-17
EF602550	6-F1-C	EI412279J1	12-IC503	EO389172J	6-FL401	ZS416687	11-16
EF690996	5-F2-C	EI412279J1	12-IC504	EO414952J	12-T501	ZS418385J	11-2
EH349374	3-IB1	EI412279J1	12-IC505	EQ348929	3-RL1	ZS428277J	11-4
EH384817J	3-IB2	EI412279J1	12-IC506	ER200746	3-FR122	ZW413267	11-5

Model S3000XL

Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
BAL6036A030A	2-3	EI388602J	3-IC18	EJ372275	5-J201	EV425557J	8-VR1
BAL6036A050A	2-2	EI388707J	3-IC41	EJ372275	5-J202	EV430795J	8-VR2
BAL6039B020B	2-1	EI388707J	4-IC501	EJ372275	7-J2	EW368420J1	12-29-B
BB431283J	12-18	EI388709J	3-IC8	EJ403478J	3-J1	EW380905J	12-29-A
BP397454J	12-19	EI388711J	3-IC7	EJ405424J	12-30	EW403993J	12-29-C
BT390145J	11-T1	EI388712J	3-IC3	EJ419240J	3-J3	EW419170J	12-29-D
EC410346J	6-C1	EI389061J	3-IC35	EJ424423J	3-J5	EW430793J	4-W501
EC410346J	6-C2	EI393325N	3-IC47	EJ424423J	3-J6	EW810045J	3-W101
EC410346J	6-C3	EI393325N	3-IC48	EJ428182J	3-J2	SA349332	12-1
EC410346J	6-C4	EI393325N	4-IC515	EJ429929J	3-P13	SB413597J	12-11
EC425606J	6-C5	EI393325N	4-IC516	EJ429932J	3-P11	SB413598J	12-12
EC427562J	6-C6	EI393325N	4-IC517	EJ430689J	3-P19	SB413599J	12-8
EC427562J	6-C7	EI393325N	4-IC518	EJ430689J	3-P20	SB413600J	12-9
ED344280	3-D1	EI393696J	4-IC502	EJ430794J	4-J509	SB413601J1	12-10
ED344280	3-D11	EI393702J	3-IC27	EL733752J	12-14	SE413248J	12-40
ED389834J	3-D2	EI393702J	3-IC28	EM418780J	12-13	SE413628J	12-41
ED389834J	3-D4	EI394832J	4-IC525	EO345990N	3-L11	SK411144J	12-32
ED389834J	3-D12	EI396541J	3-X1	EO345995N	3-L1	SK411147J	12-33
EF373142	3-FS1	EI397090J	3-IC26	EO414952J	4-T501	SK411156J	12-31
EF373143	4-FS502	EI410389J	3-IC19	EO416860J	6-L1-B	SK413636J	12-34
EF376821	3-FS2	EI410414J1	4-IC521	EO427837J	6-L1-A	SP413330J1	12-37
EF376821	3-FS3	EI412279J1	3-IC42	EQ348929	3-RL1	SP415289J	12-38
EF376821	4-FS501	EI412279J1	4-IC503	ER200972	3-FR14	SP430145J	12-22
EH349374	3-IB1	EI412279J1	4-IC504	ER410305J	3-R130	SP430213J	12-35
EH384815J	9-IB1	EI412279J1	4-IC505	ER412299J	11-R1	SZ407140J	12-15
EH384817J	3-IB2	EI412279J1	4-IC506	ER430691J	7-R7	SZ407141J	12-16
EH404248J	4-FL511	EI413120J	3-IC20	ER430691J	7-R8	ZS320906	12-7
EH404248J	4-FL512	EI413121J	3-IC17	ES411687N	9-SW1	ZS344754	12-2
EH405610J	3-FL8	EI413206J	3-IC52	ES411687N	9-SW2	ZS345272	12-23
EH408860J	3-IB3	EI414841J	4-IC524	ES411687N	9-SW3	ZS350934	12-25
EH408860J	3-IB4	EI427259J	3-IC50	ES411687N	9-SW4	ZS357953	12-39
EH410420J	3-FL1	EI427280J	3-IC12-B	ES411687N	9-SW5	ZS362534	12-27
EH410420J	3-FL2	EI427660J	3-IC15	ES411687N	9-SW6	ZS379405N	12-6
EH410420J	3-FL3	EI429988J	3-IC21	ES411687N	9-SW7	ZS417150	12-20
EH410420J	3-FL4	EI430668J	3-IC4	ES411687N	9-SW8	ZS418385J	12-36
EH410420J	3-FL5	EI430669J	3-IC16	ES411687N	9-SW9	ZS422076	12-3
EH410420J	3-FL6	EI430670J	3-IC25	ES411687N	9-SW10	ZS428277J	12-21
EH410420J	3-FL36	EI430671J	3-IC29	ES411687N	9-SW11		
EH410420J	3-FL37	EI430673J	3-IC24	ES411687N	9-SW12		
EH410420J	3-FL41	EI430674J	3-IC30	ES411687N	9-SW13		
EH410420J	3-FL46	EI430678J	3-IC23	ES411687N	9-SW14		
EH410420J	4-FL501	EI430679J	3-IC9-B	ES411687N	9-SW15		
EH410420J	4-FL506	EI430679J	3-IC10-B	ES411687N	9-SW16		
EH410420J	4-FL507	EI430680J	3-IC2	ES411687N	9-SW17		
EH410420J	4-FL508	EI430681J	3-IC44	ES411687N	9-SW18		
EH410420J	4-FL509	EI430682J	3-IC5	ES411687N	9-SW19		
EH413158J	9-IB2	EI430682J	3-IC6	ES411687N	9-SW20		
EI348785	4-IC507	EI430684J	3-IC1	ES413139J	9-SW21		
EI348785	4-IC508	EI430979J	3-IC31-B	ES413139J	9-SW22		
EI348785	4-IC509	EI430979J	3-IC32-B	ES413139J	9-SW23		
EI348785	4-IC510	EI430979J	3-IC33-B	ES413139J	9-SW24		
EI348785	4-IC511	EI430979J	3-IC34-B	ES413139J	9-SW25		
EI348785	4-IC512	EI432772J	3-IC31-A	ES413139J	9-SW26		
EI348785	4-IC513	EI432772J	3-IC32-A	ES413139J	9-SW27		
EI348785	4-IC514	EI432772J	3-IC33-A	ES413139J	9-SW28		
EI348785	5-IC202	EI432772J	3-IC34-A	ES413140J	9-SW29		
EI348785	5-IC203	EI432915J	3-IC9-A	ES413140J	9-SW30		
EI353227	3-IC49	EI432915J	3-IC10-A	ES413140J	9-SW31		
EI360043	3-IC45	EI810021J	3-IC12-A	ES413140J	9-SW32		
EI360043	3-IC46	EJ354105	3-J11	ES413140J	9-SW33		
EI360043	5-IC201	EJ354105	3-J12	ES413140J	9-SW34		
EI374176	4-X501	EJ358632J2	12-26	ES413140J	9-SW35		
EI377101	3-IC43	EJ364322	4-J501	ES413140J	9-SW36		
EI377101	3-IC51	EJ364322	4-J502	ES414627J	12-17		
EI377101	3-IC53	EJ364322	4-J503	ES427895J	12-4		
EI377101	4-IC522	EJ364322	4-J504	ET366753N	3-TR11		
EI378276	3-IC14	EJ364322	4-J505	ET370013	3-TR2		
EI379657J	3-IC13	EJ364322	4-J506	ET379341	3-PH1		
EI379997J	4-IC519	EJ364322	4-J507	ET386938N	3-TR1		
EI386289J	3-IC11	EJ364322	4-J508	EV412275J	10-VR3		

Model S3200XL

Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
BAL6028A020E	2-5-A	EI356160	7-IC21	EI430679J	3-IC3-B	EO414952J	5-T2
BAL6028A020F	2-5-B	EI360038J1	3-IC26	EI430679J	3-IC8-B	EO414952J	5-T3
BAL6028A060C	2-2	EI360043	7-IC1	EI430682J	3-IC1	EO416860J	10-L1-B
BAL6028A070A	2-3	EI360043	7-IC2	EI430682J	3-IC2	EO348929	7-RL1
BAL6028A080A	2-4	EI360043	7-IC19	EI430682J	18-IC5	EO348929	7-RL2
BAL6038A020B	2-1	EI360043	7-IC20	EI430684J	3-IC10	EO348929	7-RL3
BAL6038A030A	2-6	EI360043	8-IC10	EI430776J	18-IC2	EO413152J	11-RL1
BB431283J	19-23	EI360043	8-IC11	EI430776J	18-IC3	ER200972	3-R14
BD427558J	19-25	EI360043	8-IC12	EI430776J	18-IC4	ER318647	4-R23
BD430229J	19-24	EI360043	8-IC13	EI430803J	3-IC37	ER322787	7-R36
BP431265J	19-3	EI360043	8-IC14	EI430804J	3-IC38	ER366065	11-R9
BT390145J	3-T1	EI360043	8-IC15	EI430805J	3-IC31	ER412299J	3-R16
EC410346J	10-C2	EI360043	8-IC16	EI430807J	3-IC13	ER430691J	16-R1
EC410346J	10-C3	EI360043	8-IC17	EI430808J	3-IC32	ER430691J	16-R2
EC410346J	10-C4	EI360772	7-IC8	EI430810J	3-IC39	ES379609	7-SW1
EC410346J	10-C5	EI362568J1	7-IC3	EI430814J	3-IC12	ES411687N	9-SW17
EC425606J	10-C1	EI362568J1	7-IC4	EI430815J	3-IC301	ES411687N	9-SW18
EC427562J	6-C401	EI374176	3-X2	EI430815J	3-IC302	ES411687N	9-SW19
EC427562J	6-C402	EI375185	3-IC4	EI430815J	3-IC303	ES411687N	9-SW20
ED327057	7-D1	EI377191	7-IC15	EI430815J	3-IC304	ES411687N	9-SW21
ED344280	3-D3	EI377191	7-IC16	EI430815J	3-IC305	ES411687N	9-SW22
ED344280	3-D4	EI377191	7-IC17	EI430815J	3-IC306	ES411687N	9-SW23
ED344280	3-D5	EI377191	7-IC18	EI430815J	3-IC307	ES411687N	9-SW24
ED344280	3-D6	EI378276	3-IC14	EI430815J	3-IC308	ES411687N	9-SW25
ED344280	12-D1	EI379997J	3-IC22	EI432915J	3-IC3-A	ES411687N	9-SW26
ED389834J	3-D2	EI386311J	8-IC101	EI432915J	3-IC8-A	ES411687N	9-SW27
ED389834J	7-D2	EI386311J	8-IC201	EI810023J	3-IC7-A	ES411687N	9-SW28
ED389834J	11-D7	EI386311J	8-IC301	EJ353031	14-J402	ES411687N	9-SW29
ED389834J	11-D8	EI386311J	8-IC401	EJ353031	14-J403	ES411687N	9-SW30
EF373142	3-F3	EI386311J	8-IC501	EJ353031	16-J407	ES411687N	9-SW31
EH349374	3-IB4	EI386311J	8-IC601	EJ354105	8-J601	ES411687N	9-SW32
EH355321	9-IB1	EI386311J	8-IC701	EJ354105	8-J602	ES411687N	9-SW33
EH384817J	3-IB3	EI386311J	8-IC801	EJ354105	8-J603	ES411687N	9-SW34
EH405610J	3-FL103	EI388602J	3-IC18	EJ354105	8-J604	ES411687N	9-SW35
EH405610J	3-FL428	EI388709J	12-IC1	EJ354105	8-J605	ES411687N	9-SW36
EH408860J	3-IB1	EI388712J	3-IC5	EJ354105	8-J606	ES413128J	19-44
EH408860J	3-IB2	EI389061J	3-IC6	EJ354105	8-J607	ES413139J	9-SW1
EH410420J	3-FL56	EI393695J	3-IC9	EJ354105	8-J608	ES413139J	9-SW2
EH410420J	3-FL57	EI393702J	3-IC20	EJ357159	15-J404	ES413139J	9-SW3
EH410420J	3-FL58	EI393702J	3-IC21	EJ357159	15-J405	ES413139J	9-SW4
EH410420J	3-FL59	EI394832J	3-IC25	EJ358632J2	19-12	ES413139J	9-SW5
EH410420J	3-FL60	EI396541J	3-X1	EJ376872	19-11	ES413139J	9-SW6
EH410420J	3-FL61	EI400855J	7-IC9	EJ379523	16-J406	ES413139J	9-SW7
EH410420J	3-FL62	EI400855J	8-IC9	EJ390189J	5-J4	ES413139J	9-SW8
EH410420J	3-FL63	EI400855J	8-IC18	EJ390189J	5-J5	ES413140J	9-SW9
EH410420J	3-FL64	EI400856J	7-IC10	EJ390189J	5-J9	ES413140J	9-SW10
EH410420J	3-FL232	EI400856J	8-IC7	EJ403478J	12-J401	ES413140J	9-SW11
EH410420J	3-FL403	EI400856J	8-IC8	EJ405424J	19-43	ES413140J	9-SW12
EH410420J	7-FL4	EI401214J	3-IC15	EJ408862J	4-J3	ES413140J	9-SW13
EH410420J	12-FL1	EI401214J	3-IC30	EJ413136J	7-J501	ES413140J	9-SW14
EH410420J	12-FL2	EI410389J	3-IC19	EJ413136J	7-J502	ES413140J	9-SW15
EH410420J	12-FL3	EI410414J1	3-IC24	EJ413137J	7-P501	ES413140J	9-SW16
EH410420J	12-FL4	EI410559J	7-IC13	EJ413137J	7-P502	ES414627J	19-18
EH410420J	12-FL5	EI410559J	7-IC14	EJ414697J	4-J2	ET349593	3-TR3
EH410420J	12-FL6	EI413120J	3-IC42	EJ424423J	3-J7	ET370013	3-TR12
EH410420J	12-FL7	EI413121J	3-IC17	EJ428182J	4-J20	ET378219	12-PH1
EH410420J	16-FL1	EI413130J	7-IC5	EJ429927J	8-P601	ET386938N	3-TR5
EH410420J	16-FL2	EI413131J	7-IC12	EJ429928J	3-P6	ET413151J	11-TR4
EH413158J	9-IB2	EI413131J	8-IC1	EJ429929J	3-P1	ET413154J	7-TR1
EH429990J	5-FL7	EI413131J	8-IC2	EJ429929J	3-P14	EV410614J	8-VR101
EH429990J	5-FL8	EI413131J	8-IC3	EJ429931J	3-P9	EV410614J	8-VR201
EH429990J	5-FL9	EI413131J	8-IC4	EJ429932J	3-P8	EV410614J	8-VR301
EH429990J	5-FL10	EI414695J	3-IC40	EJ430689J	3-P11	EV410614J	8-VR401
EH429990J	5-FL11	EI419090J	3-IC41	EJ430689J	3-P12	EV410614J	8-VR501
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EH429990J	5-FL13	EI427280J	3-IC7-B	EJ431264J	18-P1	EV410614J	8-VR701
EI336995	3-IC11	EI427564J	18-IC1	EL733752J	19-20	EV410614J	8-VR801
EI336995	3-IC43	EI427660J	3-IC16	EM418780J	19-19	EV413118J	17-VR1
EI336995	7-IC7	EI427843J	3-IC29	EO351868	4-L2	EV413118J	17-VR2
EI336995	7-IC11	EI429988J	3-IC23	EO389172J	10-L1-A	EV414633J	13-VR3

Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
EW368420J1	19-42						
EW380905J	19-42						
EW403883J	19-42						
EW419170J	19-42						
EW427659J	4-W200						
EW429818J	7-W502						
EW429819J	9-W701						
EW429820J	19-45						
EW430819J	7-W501						
GH413441J1	19-34						
SA349332	19-1						
SB413597J	19-26						
SB413598J	19-27						
SB413599J	19-29						
SB413600J	19-30						
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SK411147J	19-40						
SK411156J	19-38						
SK413636J	19-41						
SP413448J	19-32						
SP413449J	19-36						
SP430148J	19-9						
SZ401475J1	19-21						
SZ401476J1	19-22						
ZS320906	19-17						
ZS336612	19-13						
ZS341859	19-33						
ZS341960	19-6						
ZS344754	19-2						
ZS345272	19-10						
ZS350934	19-16						
ZS355511	19-15						
ZS365316	19-35						
ZS379405N	19-8						
ZS417150	19-4						
ZS418385J	19-37						
ZS428277J	19-31						
ZW273892	19-5						
ZW317801	19-7						
ZW413267	19-14						

ABBREVIATIONS FOR THE SERVICE MANUAL

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
AMP (Amp)	AMPlifier	MINI	MINImum
BBD	Backet Brigade Diode	MIX	MIXer
BCD	Binary Code Decimal	MOD	MODulation / MODulator
B.DOWN	Brake DOWN	M.WHEEL	Modulation WHEEL
B.UP	Back UP	OSC	OSCillator
CE	Chip Enable	PLD	Programmable Logic Device
CH	CHannel	RAM	Random Access Memory
COMP	COMParator	RD	ReaD
CONT	CONTrol	REG	REGulator
CV	Control Voltage	RESO	RESOnance
D/A	Digital to Analogue	RL	ReLay
DIR	DIRectory	ROM	Read Only Memory
DMA	Direct Memory Access	SCSI	Small Computer System Interface
DSP	Digital Signal Processor	S/H	Sample and Hold
EG	Envelope Generator	SIMM	Single Inline Memory Module
EXT	EXTernal	SMPTE	Society of Motion Picture & Television
FREQ	FREQuency		Engineers
HPF	High Pass Filter	SW	SWitch
INH	INHibit	THRU	THRoUgh
INT	INTerrupt	TRANS	TRANSpose
INV	INVerter	U	Upper
L	Lower	VA	Voltage Analog
LAN	Local Area Network	VCA	Voltage Controlled Amplifier
LFO	Low Frequency Oscillator	VCF	Voltage Controlled Filter
MAX	MAXimum	VR	Variable Resistor
MEMO	MEMOry	V_{REF}	REFerence Voltage
MIDI	Musical Instrument Digital Interface	WR	WRite

S3000XL
S3200XL

AKAI ELECTRIC CO., LTD.
ELECTRONIC MUSICAL INSTRUMENT DIV.
12-14, 2-Chome, Higashi-Kojiya, Ohta-ku, Tokyo, Japan
SERVICE SECT. TEL:Tokyo (3745) 9621 FAX : Tokyo (3745) 9633
Printed No. 951018-A1-300 Printed Date December 10, 1995
Printed in Japan

AKAI

MODEL S2000
(IB-208P, EB16 OPTIONAL BOARD)

MODEL S3000XL
(EB16 OPTIONAL BOARD)

MODEL S3200XL

SCHEMATIC DIAGRAMS AND PC BOARDS

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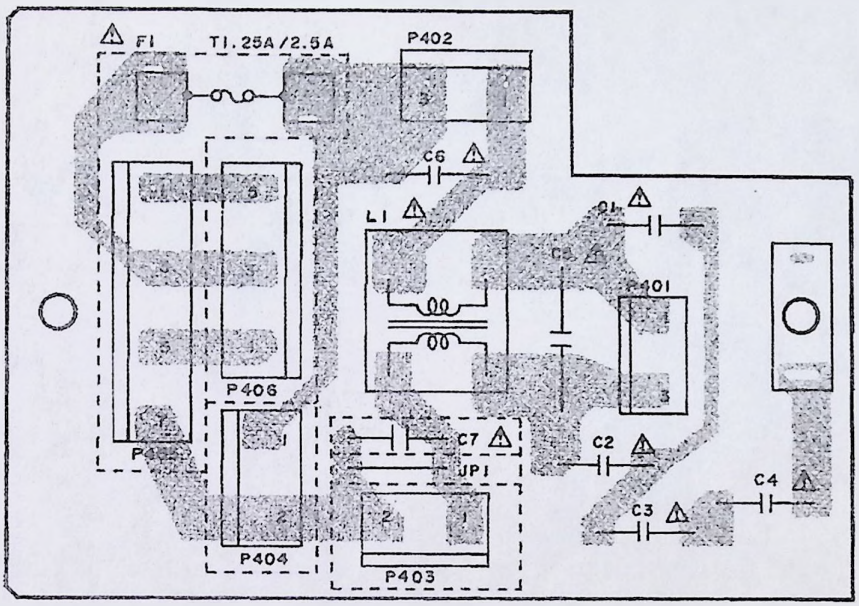
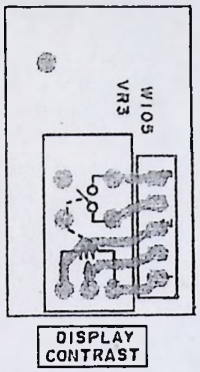


FILTER PCB L30198504A

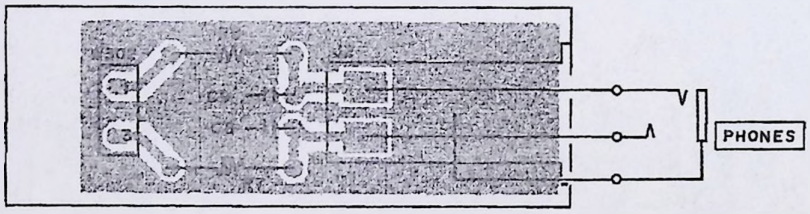
WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

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

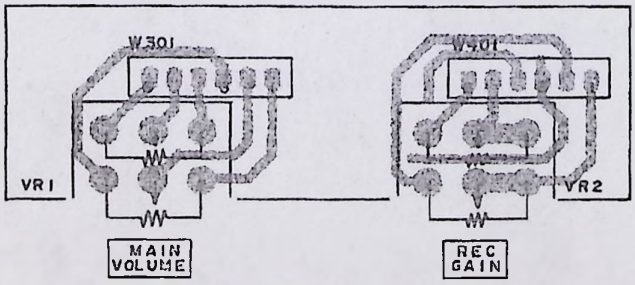
NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.



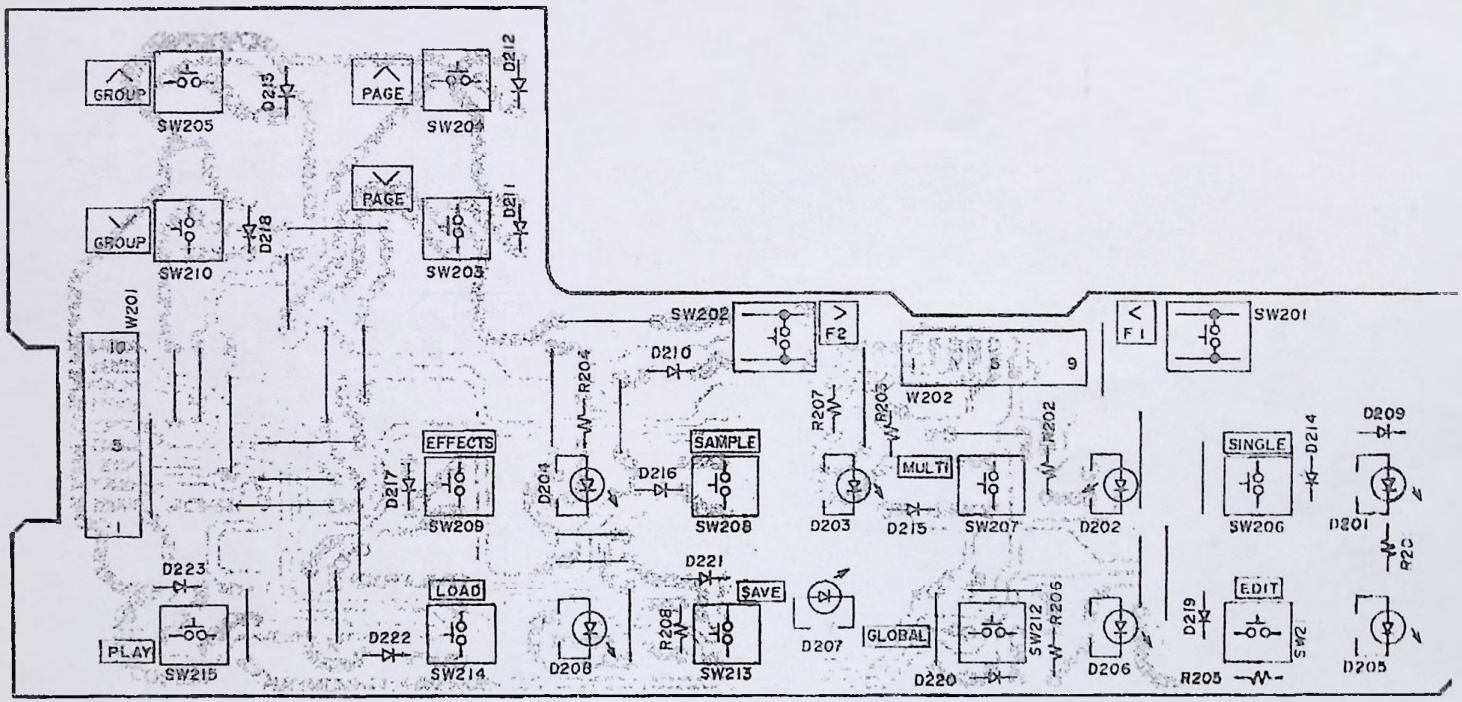
CONTRAST VR PCB
L6036A502G



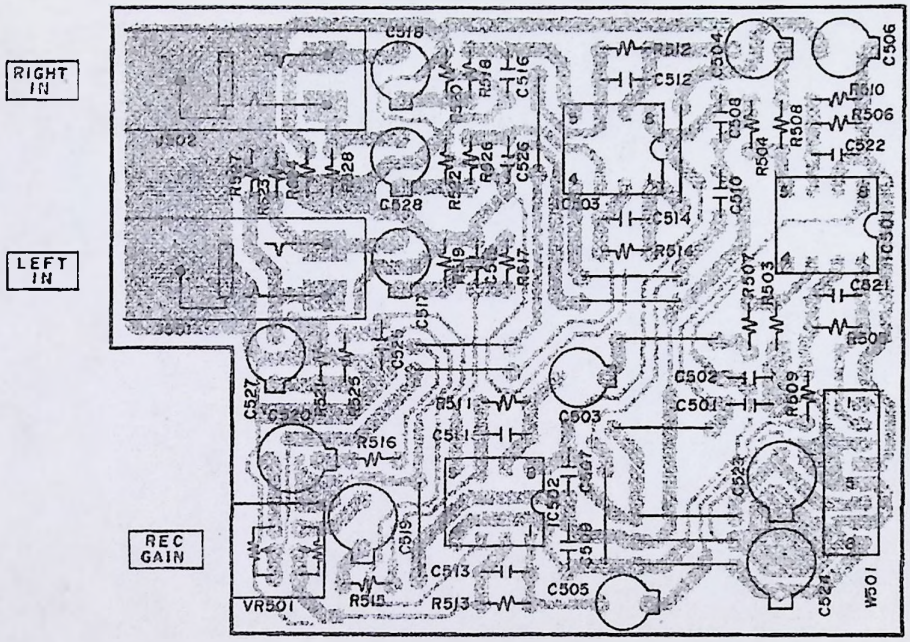
PHONE PCB L6036A502D



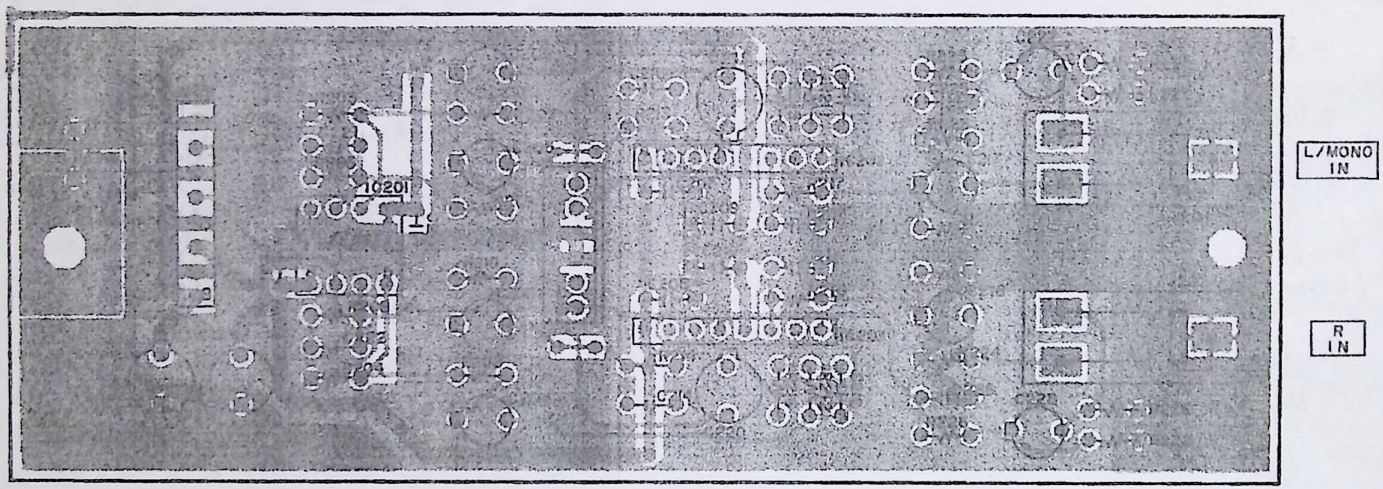
VOLUME PCB L6036A502E



OPERATION PCB L6039A503A



ANALOG PCB L6039A503D

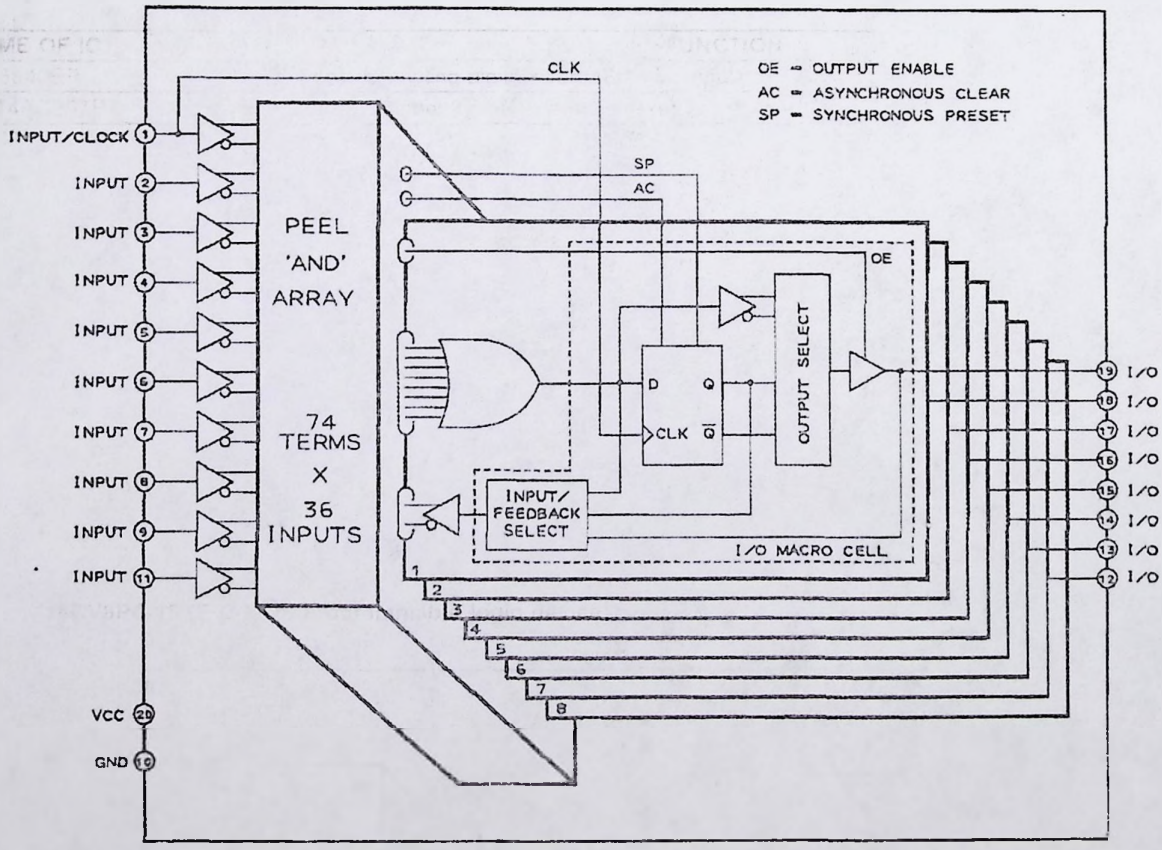


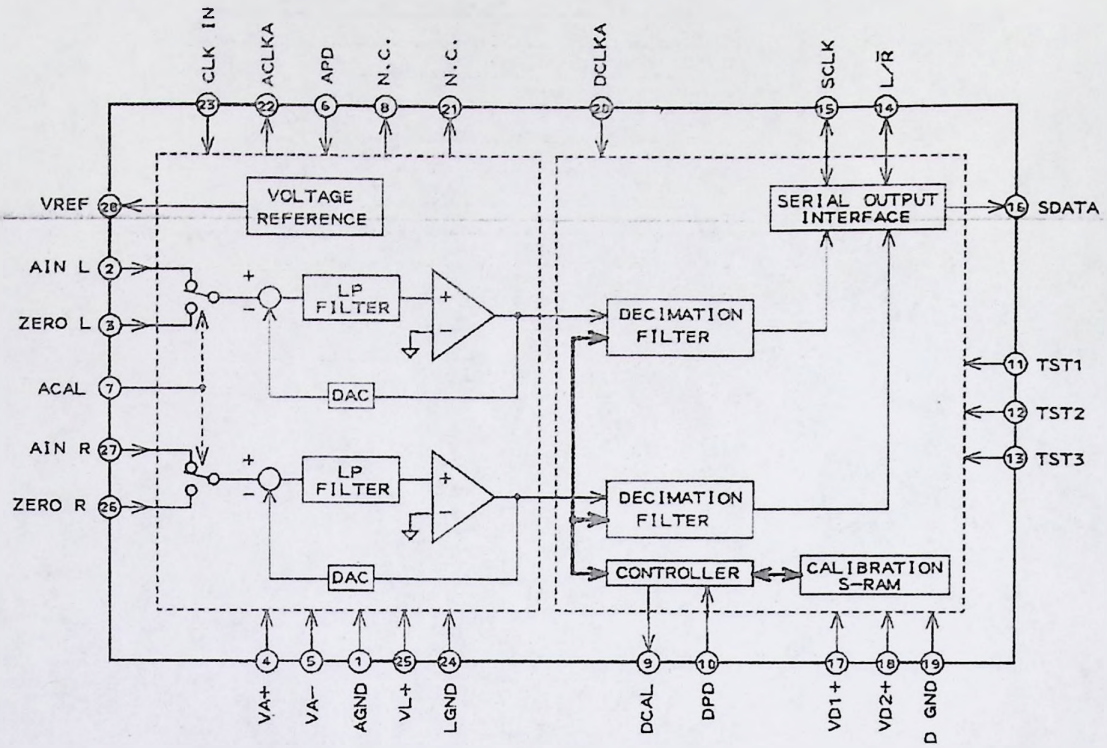
ANALOG IN PCB L6036A501B

NAME OF IC	FUNCTION
18CV8PC-15	E²C-MOS programmable logic device
AK5328-VP	18 bit dual A/D convertor with 64 fs oversampling digital filter
AK5339-VP	16 bit dual A/D convertor with 64 fs oversampling digital filter
AM27C040-150DC	4 M bit (524,288 x 8 bit) C-MOS E-P ROM
AM27C256-150DC	256 K bit (32,768 x 8 bit) C-MOS E-P ROM
AV9173-01-CN8	Generator locked PLL
BR6216B-10LL	16 K bit (2,048 x 8 bit) static RAM
CS8402-CP	Digital audio transmitter
HD74AC04P/MC74HCU04N /TC74AC04P	Hex inverters
HD74AC244P/HD74HC244P	Octal 3 state buffer
HD74HC00P	Quad 2 input NAND gate
HD74HC02P	Quad 2 input NOR gate
HD74HC32P	Quad 2 input OR gate
HD74HC86P	Quad exclusive OR gate
HD74HC123AP	Dual retriggerable monostable multivibrator
HD74HC138P	3 to 8 line decoder
HD74HC154P	4 to 16 line decoder
HD74HC245P	Octal 3 state transceiver
HD74HC273P	Octal D-FFs with clear
HD74HC367P	Hex 3 state buffer
HD74HC595P	8 bit shift registers with output latches
HM514260AZ-8	4 M bit (262,144 x 16 bit) dynamic RAM
ICS2008V	SMPTE time code receiver/generator
L7A0986 L6029 DFL	Digital filter
L7A1045 L6028 DSP-A	Digital signal processor
L7A1414 L6038 DFX	Digital filter
LC7981	LCD controller
LM2940CT-15	+15 V regulator
LM2990T-15	−15 V regulator
M51953BL	System reset pulse generator
M51957AL	System reset pulse generator
M51958AL	System reset pulse generator
M5216L	High output level OP-AMP
M5216P	High output level OP-AMP
M5218AP	Dual low noise OP-AMP
M5220L	Dual low noise voltage amplifier
M5220P	Dual low noise voltage amplifier
M5230L	Regulator (variable output)
M5237L	Regulator (variable output)
M5238AP	Dual low noise J-FET input OP-AMP
MB81C4256A-80PSZ-G	1M bit (256 K x 4 bit) D-RAM
MB89255-PFS-G-BND	Parallel data I/O interface
MB89255A-P-G	Parallel data I/O interface
MB89255B-PFS-G-BND	Parallel data I/O interface
MB89352A-P-G	SCSI protocol controller
NJM5532D-D	Low noise OP-AMP
NJM7805FA	+5 V regulator
NJM78L05A	+5 V regulator
NJM78L12A	+12 V regulator
NJM78M05FA	+5 V regulator
NJM79L05A	−5 V regulator
NJM79M05FA	−5 V regulator
PALCE16V8Q-15PC	E²C-MOS programmable logic device
PALCE20V8Q-15PC	E²C-MOS programmable logic device
PCM61P	18 bit serial input D/A convertor
PCM63P-J	20 bit serial input D/A convertor
PCM69AP-4	Dual 18 bit serial input D/A convertor
PQ30RV1	Variable regulator (2.85 V for SCSI use)

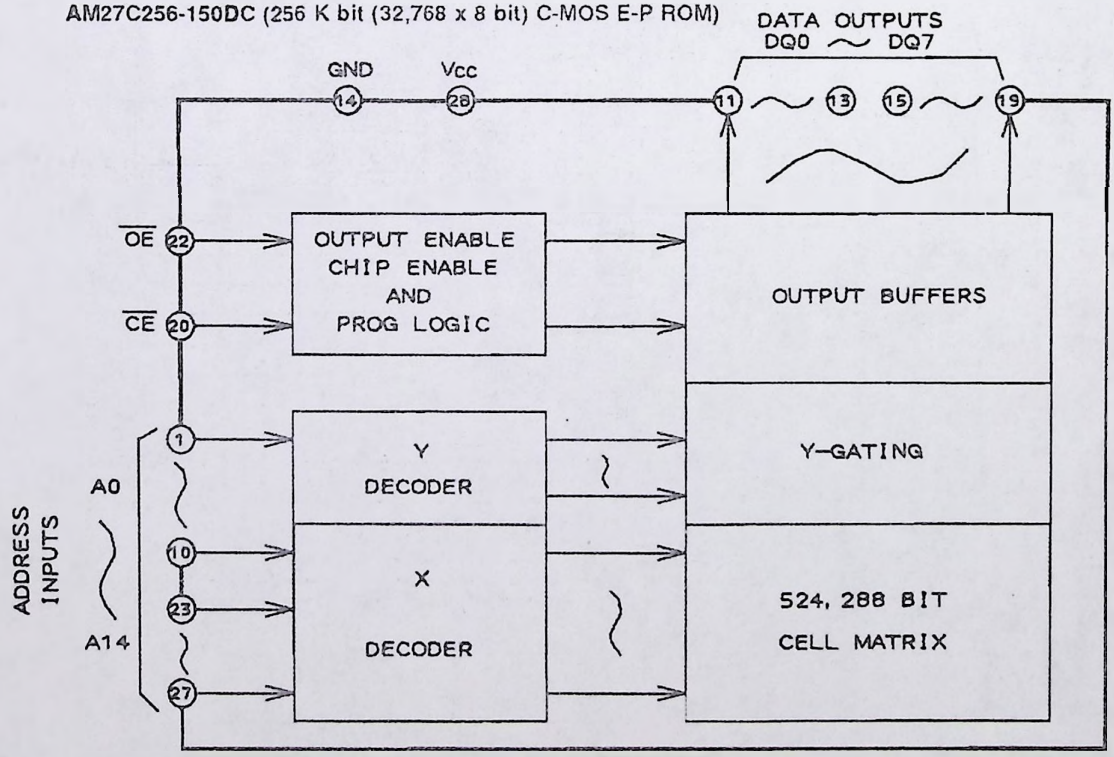
NAME OF IC	FUNCTION
SM5840EP	8 fs oversampling digital filter (16/18 bit input)
TC74AC257P	Quad 2 channel 3 state line multiplexer
μPC812C	Dual low drift J-FET input OP-AMP
μPD5200C	Dual analog switch
μPD4217400G3-70-7JD	16 M bit (4,194,304 x 4 bit) dynamic RAM
μPD42426G5-70-7JF	4 M bit (262,144 x 16 bit) dynamic RAM
μPD424400GS-60-9JD	4 M bit (1,048,576 x 4 bit) dynamic RAM
μPD431000AGW-85L	1 M bit (131,072 x 8 bit) static RAM
μPD70236AGD-16-5BB	16 bit micro processor
μPD72069GF-3BA	FDD controller
YM3623B	Receiver for digital audio interface formatted signal

18CV8PC-15 (E^2C-MOS programmable logic device)



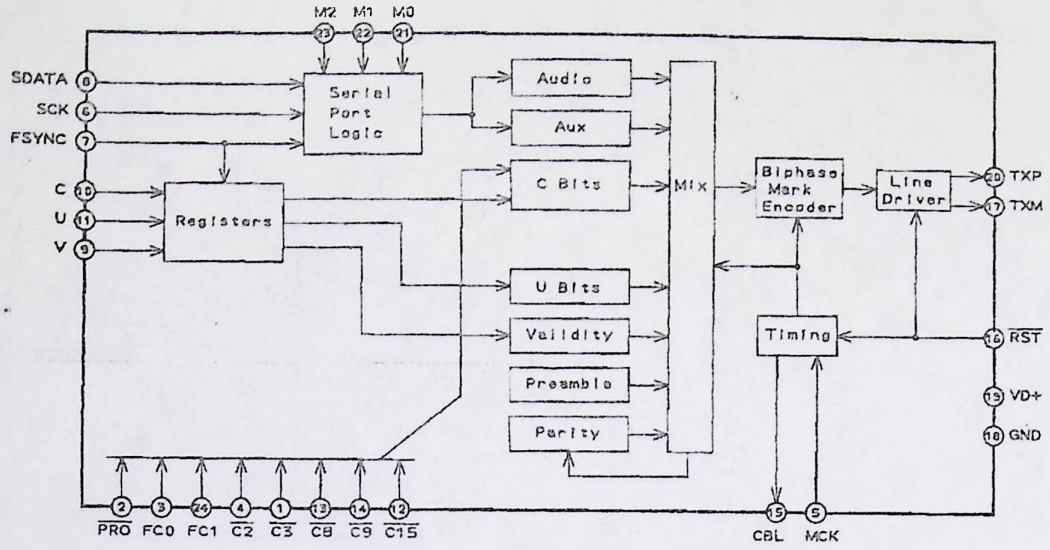


AM27C256-150DC (256 K bit (32,768 x 8 bit) C-MOS E-P ROM)



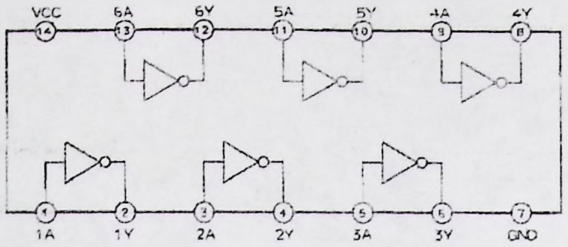
AV9173-01-CN8 (Generator locked PLL)

PIN No.	PORT NAME	I/O	FUNCTION
1	FBIN	I	Feedback input.
2	IN	I	Input for reference sync pulse.
3	GND	–	Ground.
4	FS0	I	Frequency select 0 input.
5	OE	I	Output enable.
6	CLK1	O	Clock output 1.
7	VDD	–	+5 V power supply.
8	CLK2	O	Clock output 2.

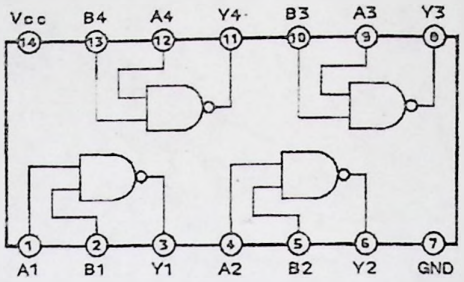


PIN No.	PORT NAME	I/O	FUNCTION
1	C7/C3	I	C7 is the inverse of channel status bit 7 (in professional mode). C3 is the inverse of channel status bit 3 (in consumer mode).
2	PRO	I	Select the professional mode (low) and consumer mode (high). C1 is the inverse of channel status bit 1 (in professional mode).
3	C1/FC0	I	FC0 and FC1 are encoded versions of channel status bits 24 and 25 (bits 0 and 1 of byte 3). When FC0 and FC1 are both high, CD mode is selected.
4	C6/C2	I	C6 is the inverse of channel status bit 6 (in professional mode). C2 is the inverse of channel status bit 2 (in consumer mode).
5	MCK	I	Master clock input pin.
6	SCK	I	Serial clock input pin.
7	FSYNC	I	Frame sync input pin.
8	SDATA	I	Audio data serial input pin.
9	V	I	Validity bit serial input port.
10	C/SBF	I	C is the channel status serial input port (in professional & consumer modes). This pin inputs the CD subcode frame clock (CD mode).
11	U	I	User bit serial input port.
12	C9/C15	I	C9 is the inverse of channel status bit 9 (in professional mode). C15 is the inverse of channel status bit 15 (in consumer mode).
13	EM1/C8	I	Emphasis 0,1 (in professional mode, EM0 and EM1 encode channel status bits 2,3 and 4).
14	EM0/C9		C8 and C9 are inverse of channel status bits 8 and 9. In professional and consumer modes, the channel status block output is high
15	CBL/SBC	O	for the first four bytes of channel status. In CD mode, this pin outputs the subcode bit clock.
16	RST	I	Master reset pin.
17	TXN	O	RS422 compatible differential line driver.
18	GND	–	Ground pin.
19	VD+	–	Positive side of the power supply pin.
20	TXP	O	RS422 compatible differential line driver.
21 - 23	M0 to M2	I	Serial port mode select pins. (Select the format of F SYNC and the sample edge of SCK with respect to SDATA.)
24	CRE/FC1	I	If CRE is high, the channel status local sample address and reliability flag are internally generated (in professional mode). FC0 and FC1 are encoded versions of channel status bits 24 and 25 (bits 0 and 1 of byte 3). When FC0 and FC1 are both high, CD mode is selected.

HD74AC04P/MC74HCU04N/TC74AC04P (Hex inverters)



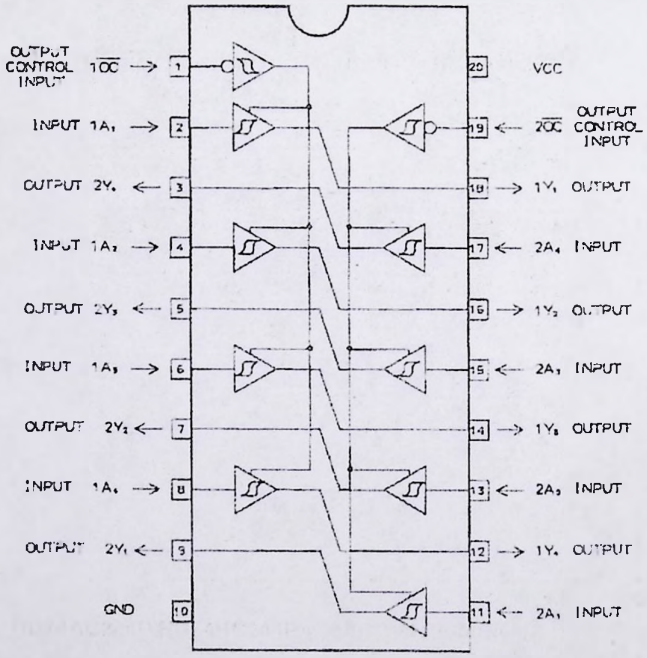
HD74HC00P (Quad 2 input NAND gate)



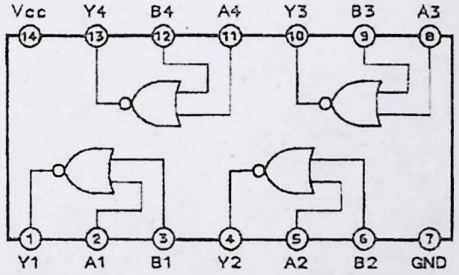
TRUTH TABLE

INPUTS		OUTPUTS
A	B	Y
L	L	H
L	H	H
H	L	H
H	H	L

HD74AC244P/HD74HC244P (Octal 3 state buffer)



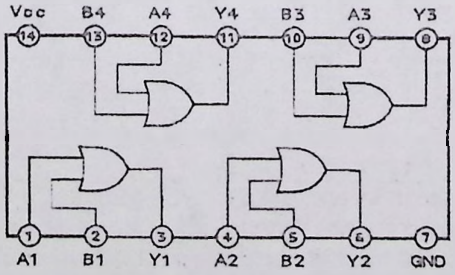
HD74HC02P (Quad 2 input NOR gate)



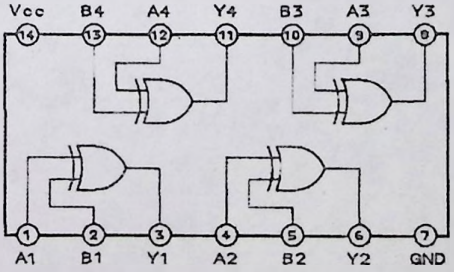
TRUTH TABLE

INPUTS		OUTPUTS
A	B	Y
L	L	H
L	H	L
H	L	L
H	H	L

HD74HC32P (Quad 2 input OR gate)

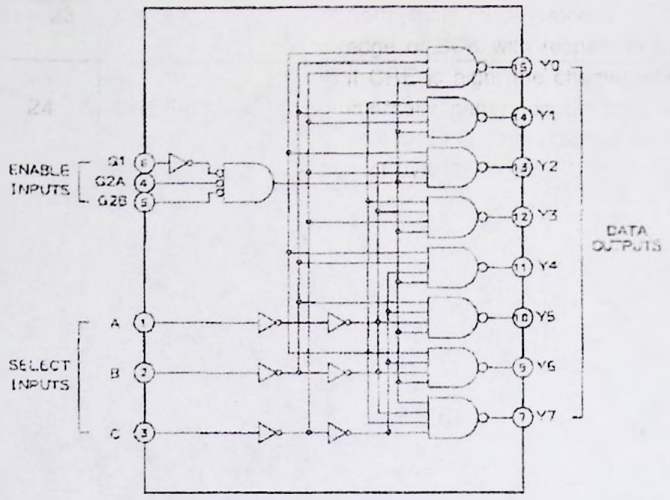


HD74HC86P (Quad exclusive OR gate)



TRUTH TABLE

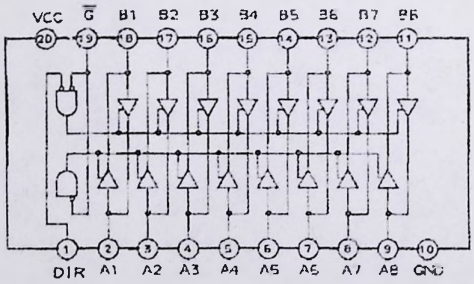
INPUTS		OUTPUTS
A	B	Y
L	L	L
L	H	H
H	L	H
H	H	L



TRUTH TABLE

INPUTS					OUTPUTS							
ENABLE		SELECT										
G1	G2	C	B	A	Y0	Y1	Y2	Y3	Y4	Y5	Y6	Y7
X	H	X	X	X	H	H	H	H	H	H	H	H
L	H	X	X	X	H	H	H	H	H	H	H	H
H	L	L	L	L	L	H	H	H	H	H	H	H
H	L	L	L	H	H	L	H	H	H	H	H	H
X	H	X	X	X	H	H	L	H	H	H	H	H
H	L	L	H	L	H	H	H	L	H	H	H	H
H	L	L	H	H	H	H	H	H	L	H	H	H
H	L	H	L	L	H	H	H	H	H	L	H	H
H	L	H	H	L	H	H	H	H	H	H	L	H
H	L	H	H	H	H	H	H	H	H	H	H	L

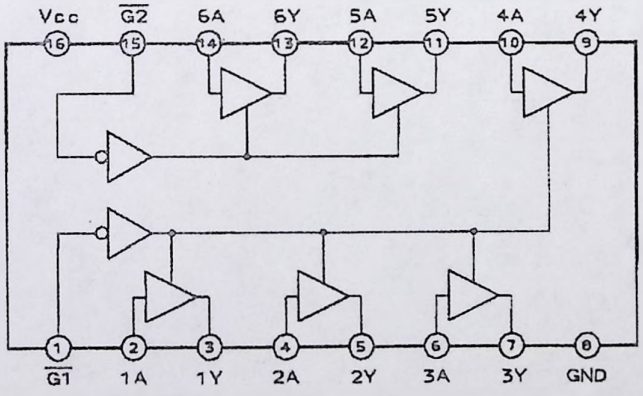
HD74HC245P (Octal 3 state transceiver)



FUNCTION TABLE

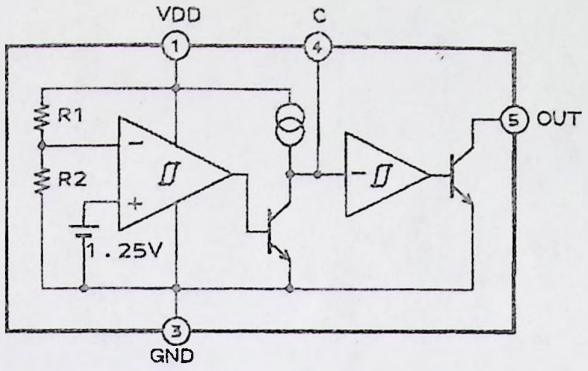
CONTROL INPUTS		OPERATION
G	DIR	
L	L	B DATA TO A BUS
L	H	A DATA TO B BUS
H	X	ISOLATION

HD74HC367P (Hex 3-state bus buffers)

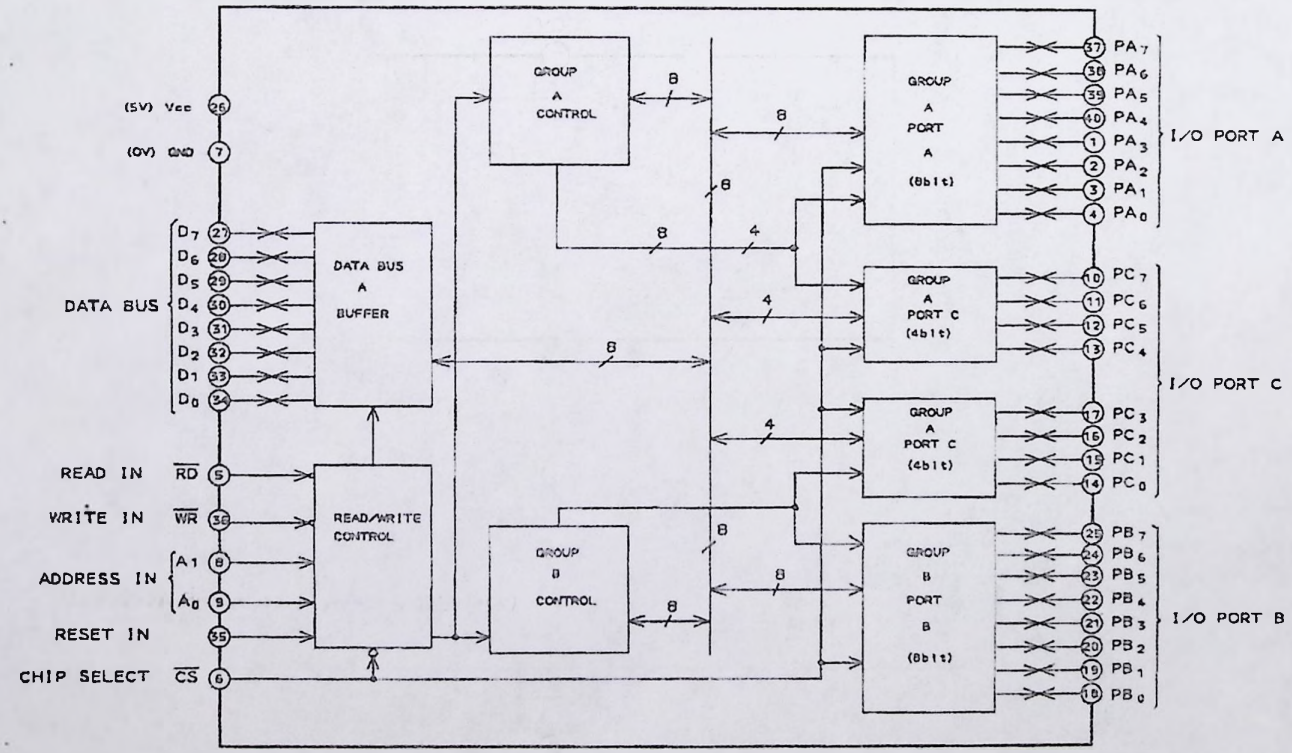


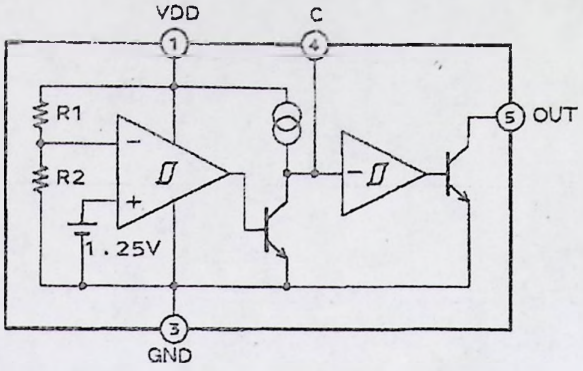
PIN No.	PORT NAME	I/O	FUNCTION
1,15,25,30,31,44 60,61,71,81,90,91 100,111,120	Vdd	–	+5 V power supply pin.
2	LSIGN	I	Chip select input.
3~5	CA3~CA1	I	Host CPU address bus.
6,16,27,35,45,54 62,75,88,106,110	Vss	–	To be grounded.
7~14,17~24	C15~C0	I/O	Host CPU, DMA data bus.
26	DMARQF	O	DMA request output (High active).
28	DMAKFN	I	DMA acknowledge input (low active).
29	TEST	I	To be used for function test.
32	IOGN	I	Host CPU, DMA read input (low active).
33	IOWN	I	Host CPU, DMA write input (low active).
34	RST	I	System reset signal input (low active).
36	RDYFN	O	Host CPU read/write ready output (low active)
37	ROUT	O	Serial data output for D/A converter
38	LOUT	O	Serial data output for D/A converter and digital audio transmitter.
39	LRWDKN	O	DAC word clock output for left-mix and right-mix.
40	123WDKN	O	DAC word clock output for individual 2 and 3.
41	101WDKN	O	DAC word clock output for individual 0 and 1.
42	BTCK	O	Data catch clock output for DAC and digital audio transmitter.
43	DAWDK	O	Word clock output for digital audio transmitter.
46~53,63~70 72~74,76~80	A23~A0	O	Address outputs for the wave memory (RAM/ROM).
55	ZTN	I	test pin for tri-state test. (Connect to Vdd in normal condition.)
56~59	TA0~TA3	I	Input pin for the function test. (Connect to the Vss in normal condition.)
82	CASN	O	Column address strobe output for the wave memory (RAM) (low active).
83	RASN	O	Row address strobe output for the wave memory (RAM) (low active).
84	MEMWGN	O	Output enable out for the wave memory. (low active)
85	WRAMWN	O	Read/write output for the wave memory. (low active)
86	ROMWGN	O	Chip enable output for the wave memory (ROM). (low active)
87	TEST OUT	O	Output pin for parametric test. (Open in normal condition.)
89	TG	I	Input pin for the function test.
92~99,101~105 112~114	W0-W15	I/O	Data bus for the wave memory.
107	CLK	I	System clock input (768 times of the sampling-rate).
108	U0IN	I	Serial data input for the second LSI.
109	U1IN		
115	U0OUT	O	Serial data output for the second LSI.
116	U1OUT		
117	USYNC	O	Sync signal output for the second LSI.
118	RSTON	O	System reset output for the second LSI.
119	T0B1	O	System clock output for the second LSI.

MB1953BL (Reset pulse generator)

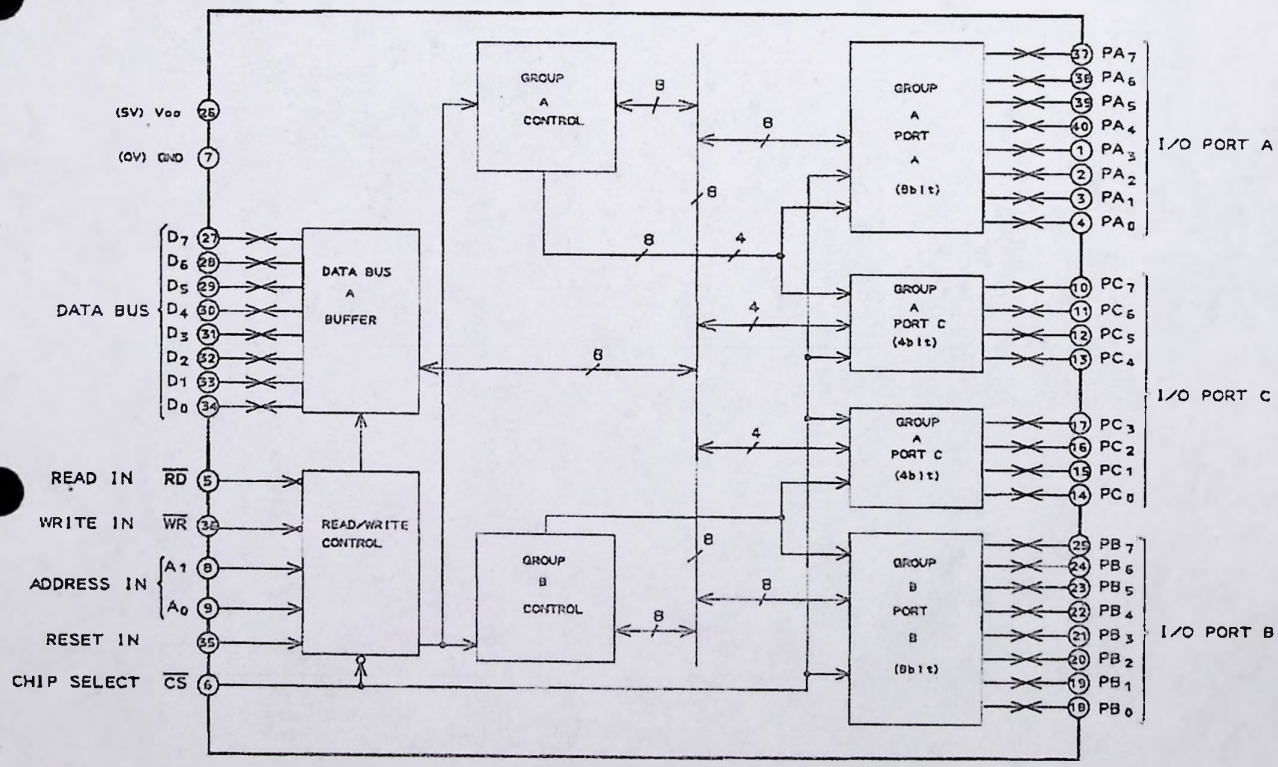


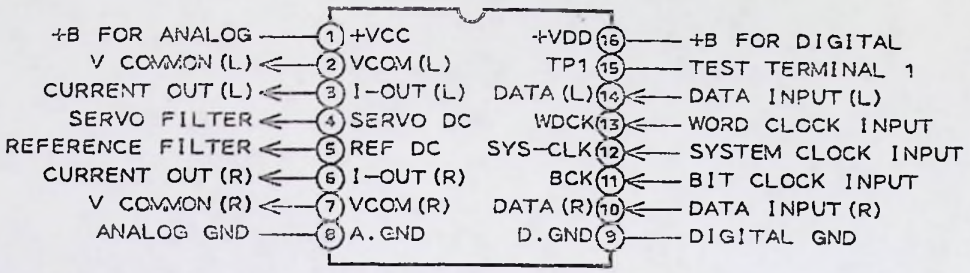
MB89255A-P-G (Parallel data I/O interface)





MB89255A-P-G (Parallel data I/O interface)





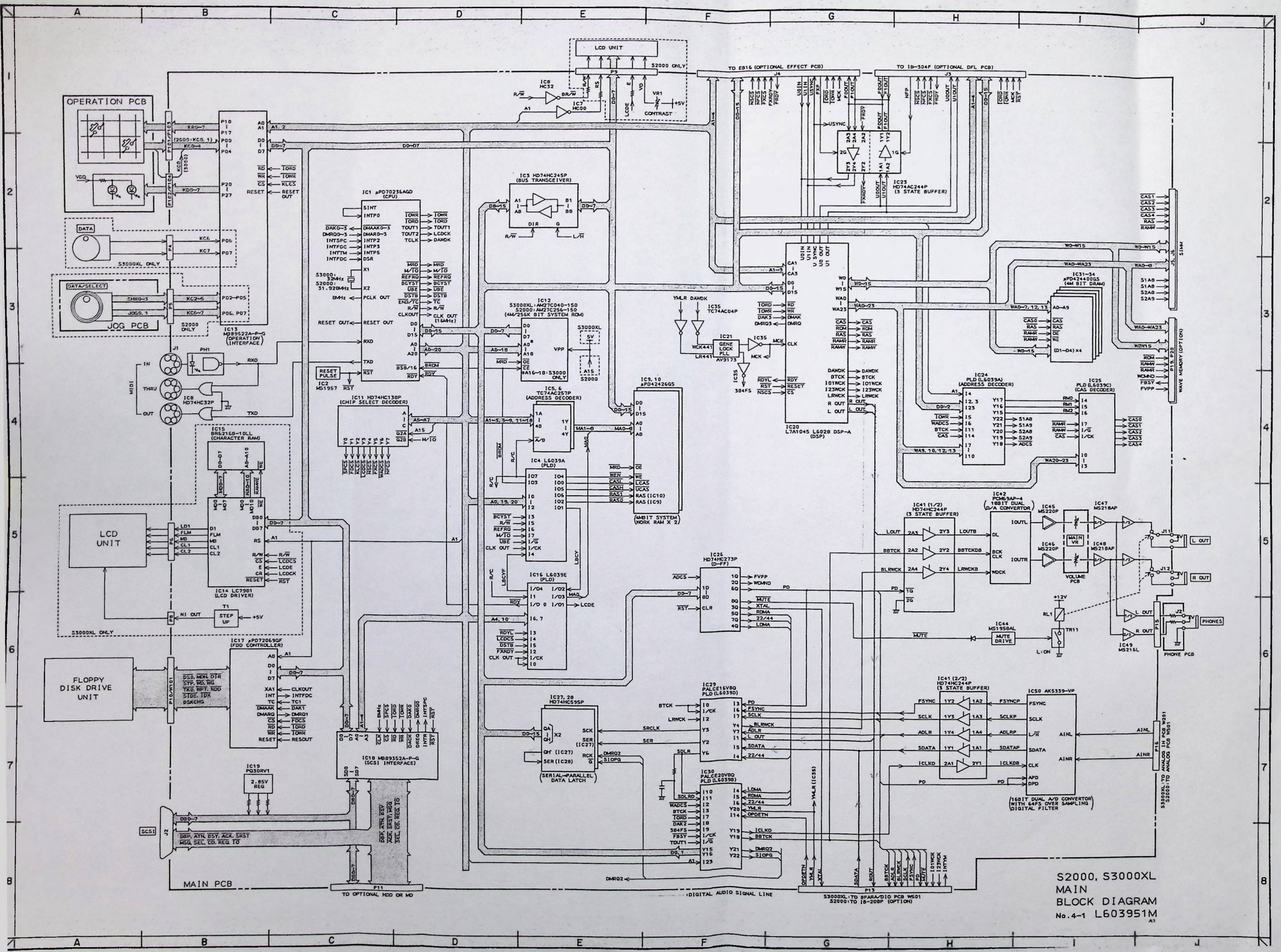
YM3623B (Receiver for digital audio interface formatted signal)

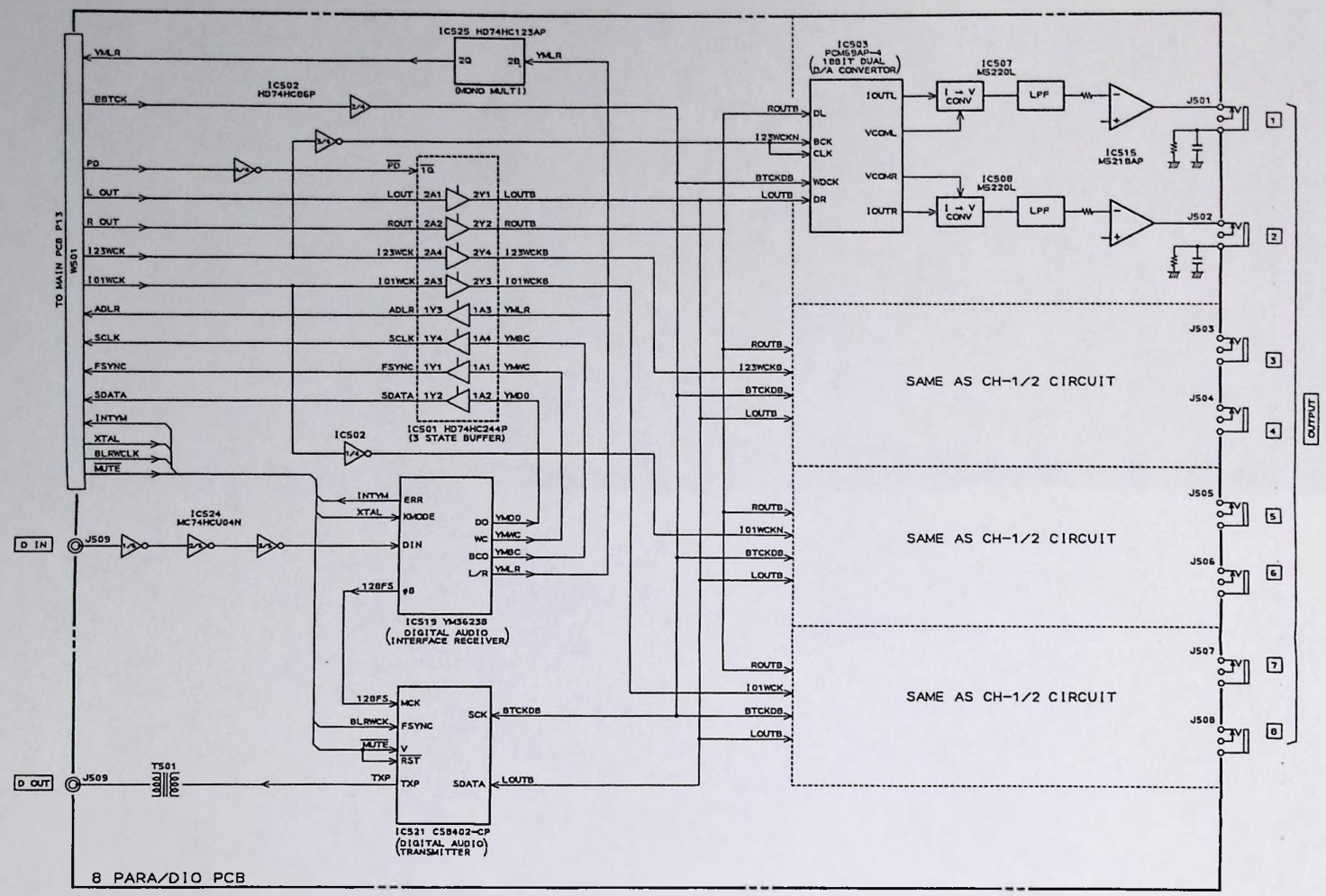
PIN No.	PORT NAME	I/O	FUNCTION
1	Vdd1	–	+5 V power supply pin for system.
2	ADJ	I	VCO oscillating frequency adjusting pin.
3	VCO	I/O	Capacitor connecting pin for the VCO circuit.
4	Vss2	–	Ground pin for the VCO circuit.
5	XO	O	Crystal connecting pin.
6	XI	I	
7	$\overline{\text{KMODE}}$	I	H : PLL circuit will operate when DIN pin receives input signal. System uses crystal oscillator when DIN pin has no input signal. L : System uses crystal oscillator whichever DIN pin receives signal or not.
8	ΦA	O	16.9344 MHz output (when the crystal oscillator is used). Output frequency varies according to the DIN input when the PLL circuit is operating.
9	ΦB	O	1/3 frequency of the ΦA (when the crystal oscillator is used). Output frequency varies according to the DIN input when the PLL circuit is operating.
10,11	$\overline{\text{T1}}$,$\overline{\text{T2}}$	I	Internal circuit check pins.
12	BCO	O	Timing clock for the output signal from DO pin.
13	$\overline{\text{SYNC}}$	O	Synchronization signal.
14	Vss1	O	Ground pin for system.
15	L/$\overline{\text{R}}$	O	Identification signal between L-ch and R-ch. (H : L-ch, L : R-ch)
16	DEF	O	H indicates that the input data is emphasised. L indicates that the input data is not emphasised.
17	DO	O	16 bit data output.
18	WC	O	This pin indicates that the output data is being output from the DO pin.
19	DIGR	O	signal out for R-ch deglitching.
20	DIGL	O	signal out for L-ch deglitching.
21	ERR	O	H indicates parity error or crystal oscillator is operating. L indicates there is no error.
22	SEL	I	
23	S1	O	Refer to the "NOTE"
24	S2	O	
25	SCK	O	Clock out for subcode output.
26	SSYNC	O	Signal for subcode.
27	SDO	O	Subcode data output pin.
28	DIN	I	Data input pin.

*NOTE : Relations between the SEL, S1 and S2

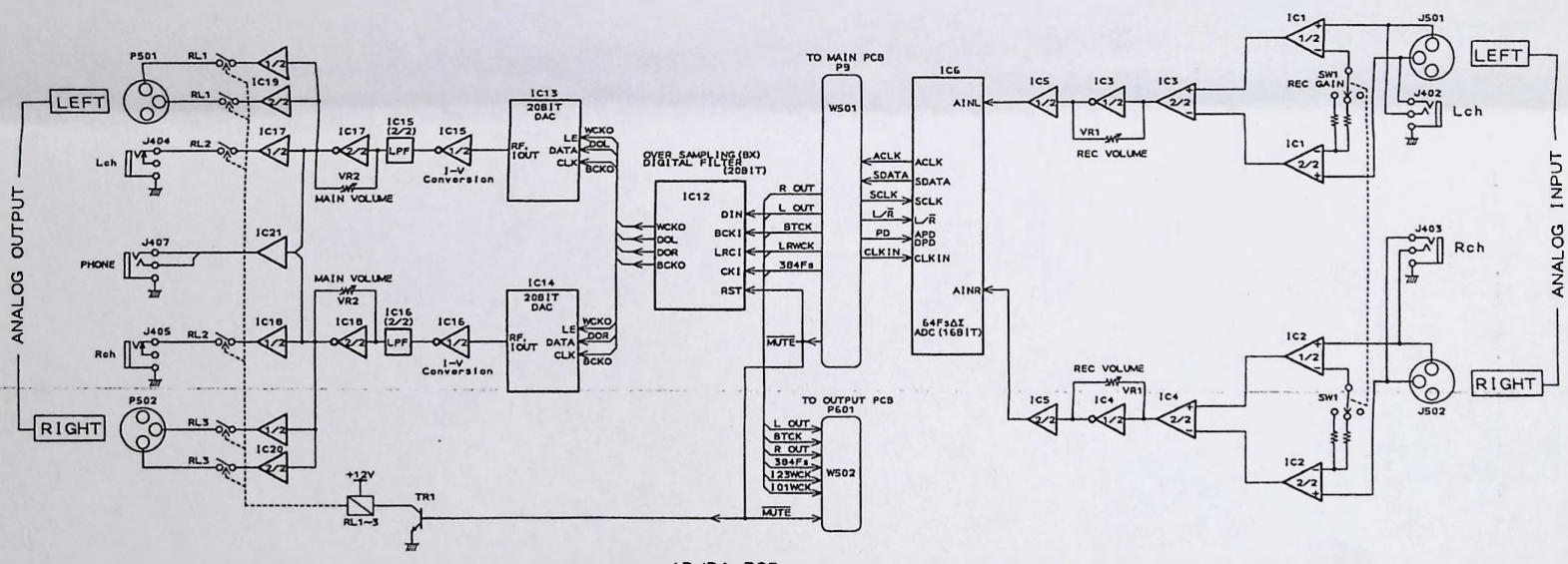
INPUT	OUTPUT		OUTPUT	
SEL	S1	Function	S2	Function
L	L	Copy prohibited	L	CD (except DAT)
	H	Copy possible	H	DAT
H	L		L	The sampling frequency of the DIN signal is 44.1 kHz
	L		H	48 kHz
	H		H	32 kHz
	H		L	–

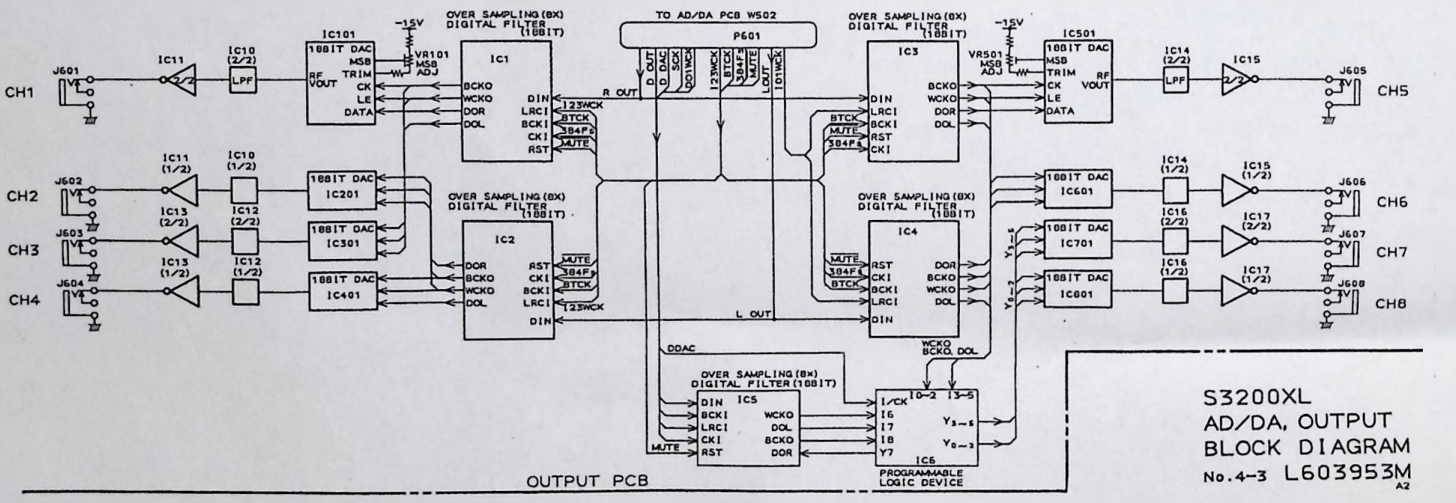
PIN No.	PORT NAME	I/O	FUNCTION
1,3,15,17,19 25,28,29,44, 52~54,64,66, 77,79,84,88,	NC	–	No Connection.
2,6,9,12,37,40 61,81,92,95,98	GND3	–	Ground 3
4,5,7,100	EM0~3	O	Enable Motor.
8	DIR	O	Direction.
10	STEP	O	Step.
11	WDATA	O	Write data.
13	WE	O	Write Enable.
14	ENIDX	I	Enable Index.
16	VDD2	–	+5 V.
18,20	CGP1,2	O	Charge Pump.
21	GND2	–	Ground 2.
22,23	LPF1,2	O	Low Pass Filter.
24	TRK0	I	Track 0.
26	WPRT	I	Write Protected.
27	RDATA	I	Read Data.
30	READY	I	Ready.
31	2SIDE	I	Two Side.
32	FLT	I	Fault.
33	ENPCS	I	Enable Pre-Compensation.
34	ACTL	I	Active Level.
35	MSEL	I	Mode Select.
36	SIDE	O	Side Select.
38	FLTR	O	Fault Reset.
39	HDLD	O	Head Load.
41	LCT	O	Low Current.
42,43	VDD1	–	+5 V.
45	RESET	I	Reset.
46	$\overline{RD}$	I	Read.
47	$\overline{WR}$	I	Write.
48	$\overline{ENRW}$	I	Enable Read, Write.
49	RSEL	I	Registers Select.
50	CS	I	Chip Select.
51	A0	I	Address 0.
55,56,85,89,90	GND1	–	Ground 1.
57~60 62,63,65,67	D0~D7	I/O	Data Bus.
68	DMARQ	O	DMA Request.
69	$\overline{DMAAK}$	I	DMA Acknowledge.
70	TC	I	Terminal Count.
71	INT	O	Interrupt Request.
72	FMT	I	Format.
73~75	DR0~DR2	I	Data Rate.
76	INDEX	I	Index.
78,80	PCS0,PCS1	I	Pre-Compensation.
82,83	XA1,XA2	–	Crystal A connecting terminals.
86,87	XB1,XB2	–	Crystal B connecting terminals.
91,93	DEN0,DEN1	O	Density.
94,96,97,99	DS0~DS3	O	Drive Select.


LCD UNIT
S2000 ONLY
TO EB16 (OPTIONAL EFFECT PCB)
TO IB-304F (OPTIONAL DFL PCB)
OPERATION PCB
DATA
S3000XL ONLY
DATA/SELECT
JOG PCB
S2000 ONLY
IC13 MB89522A-P-G (OPERATION INTERFACE)
IC1 μPD70236AGD (CPU)
IC3 HD74HC245P (BUS TRANSCEIVER)
IC23 HD74AC244P (3 STATE BUFFER)
IC12 S3000XL: AM27C040-150 S2000: AM27C256-150 (4M/256K BIT SYSTEM ROM)
IC11 HD74HC138P (CHIP SELECT DECODER)
IC5, 6 TC74AC257P (ADDRESS DECODER)
IC9, 10 μPD42426GS (4MBIT SYSTEM WORK RAM X 2)
IC4 L6039A (PLD)
IC16 L6039E (PLD)
IC15 BR6216B-10LL (CHARACTER RAM)
IC14 LC7981 (LCD DRIVER)
IC17 μPD72069GF (FDD CONTROLLER)
IC18 MB89352A-P-G (SCSI INTERFACE)
IC19 PQ30RV1 2.85V REG
IC35 TC74AC04P
IC21 GENE LOCK PLL AV9173
IC20 L7A1045 L6028 DSP-A (DSP)
IC31-34 μPD42440DGS (4M BIT DRAM)
IC24 PLD (L6039A) (ADDRESS DECODER)
IC25 PLD (L6039C) (CAS DECODER)
IC41 (1/2) HD74HC244P (3 STATE BUFFER)
IC42 PCM69AP-4 18BIT DUAL D/A CONVERTOR
IC45 MS220P
IC46 MS220P
IC47 MS218AP
IC48 MS218AP
IC49 MS216L
IC44 MS195BAL MUTE DRIVE
VOLUME PCB
PHONE PCB
IC41 (2/2) HD74HC244P (3 STATE BUFFER)
IC50 AK5339-VP (16BIT DUAL A/D CONVERTOR WITH 64FS OVER SAMPLING DIGITAL FILTER)
IC26 HD74HC273P (D-FF)
IC27, 28 HD74HC595P (SERIAL-PARALLEL DATA LATCH)
IC29 PALCE16V8Q PLD (L6039D)
IC30 PALCE20V8Q PLD (L6039B)
WAVE MEMORY (OPTION)
FLOPPY DISK DRIVE UNIT
MAIN PCB
TO OPTIONAL HDD OR MO
DIGITAL AUDIO SIGNAL LINE
S3000XL: TO 8PARA/DIO PCB W501
S2000: TO 18-20BP (OPTION)
S3000XL: TO ANALOG PCB W501
S2000: TO ANALOG PCB W501
S2000, S3000XL
MAIN
BLOCK DIAGRAM
No.4-1 L603951M

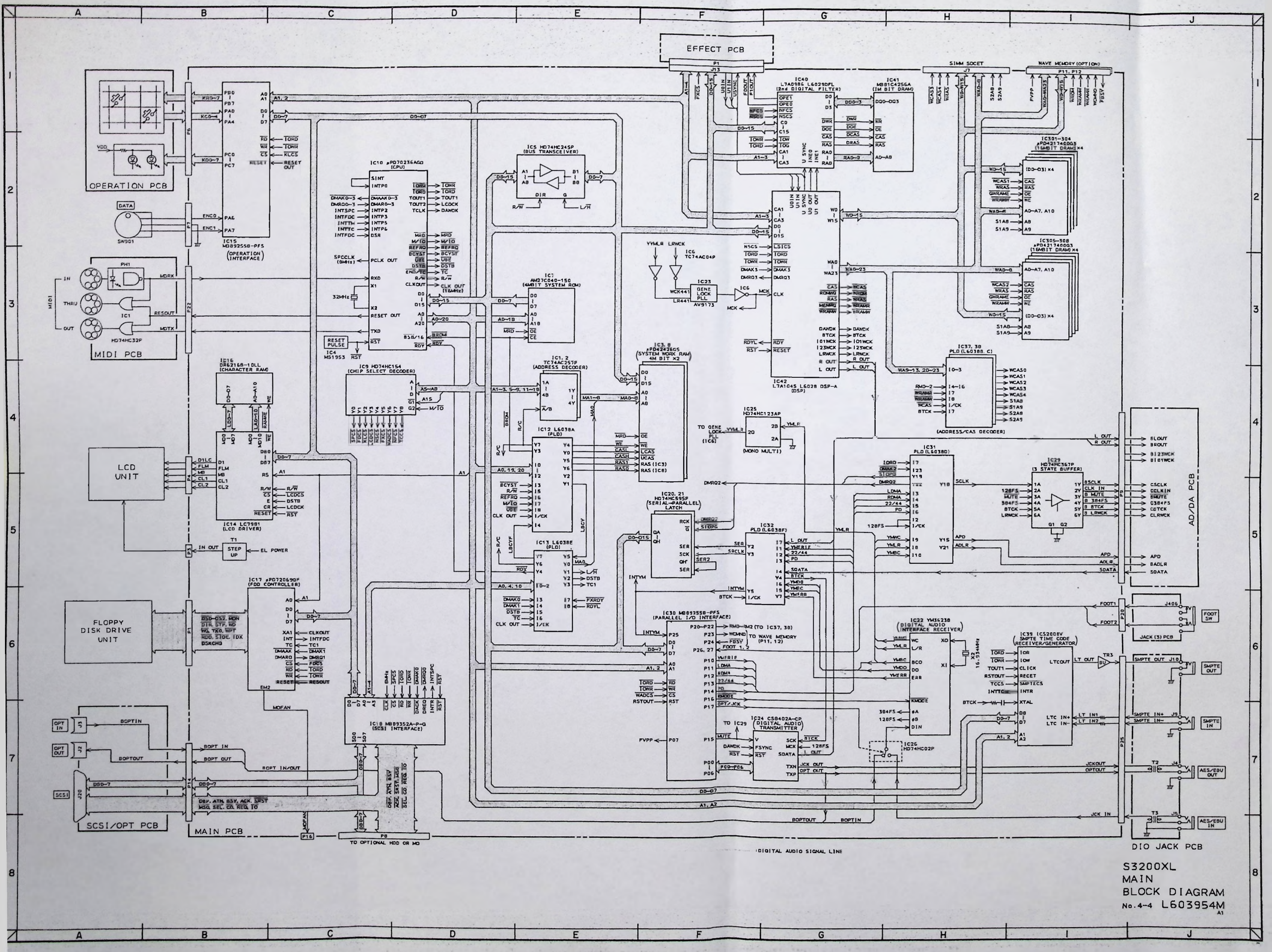


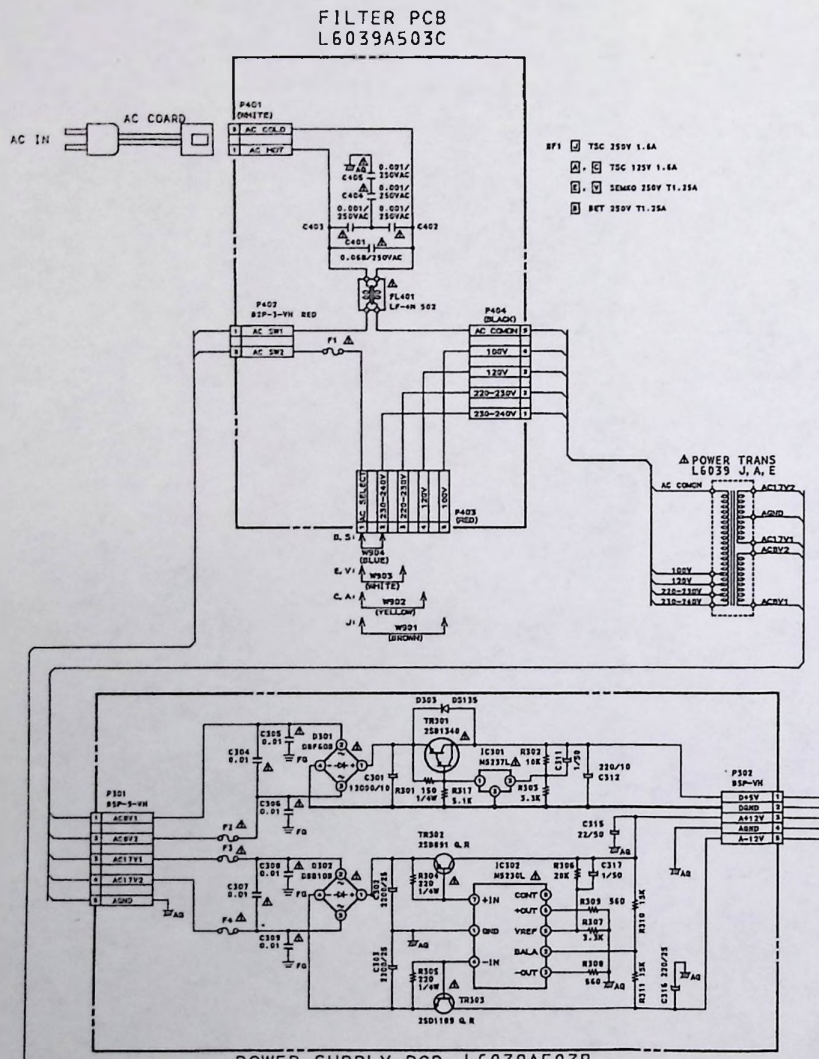
S3000XL
8 PARA/DIO (IB-208P)
BLOCK DIAGRAM
No.4-2 L603952M
A2





S3200XL
AD/DA, OUTPUT
BLOCK DIAGRAM
No.4-3 L603953M
A2


EFFECT PCB
P1
J13
SIMM SOCET
J7
WAVE MEMORY (OPTION)
P11, P12
OPERATION PCB
DATA
SW901
MIDI PCB
IN
THRU
OUT
PH1
IC1
MD74HC32P
IC15
MD892558-PFS
(OPERATION INTERFACE)
IC10 μPD70236AGD
(CPU)
32MHz
IC4
MS1953
RESET PULSE
IC5 MD74HC245P
(BUS TRANSCEIVER)
IC6
TC74AC04P
IC23
GENE LOCK PLL
AV9173
LR441
WCK441
IC7
AM27C040-150
(4MBIT SYSTEM ROM)
IC9 MD74HC154
(CHIP SELECT DECODER)
IC16
DR6216B-10LL
(CHARACTER RAM)
IC1, 2
TC74AC257P
(ADDRESS DECODER)
IC3, 8
μPD424260S
(SYSTEM WORK RAM)
4M BIT ×2
IC12 L6038A
(PLD)
IC13 L6038E
(PLD)
IC20, 21
MD74HC595P
(SERIAL-PARALLEL)
LATCH
IC32
PLD (L6038F)
IC40
L7A0986 L6029DFL
(2nd DIGITAL FILTER)
IC41
MB81C4256A
(1M BIT DRAM)
IC42
L7A1045 L6028 DSP-A
(DSP)
IC301-304
μPD421740003
(16MBIT DRAM) ×4
IC305-308
μPD421740003
(16MBIT DRAM) ×4
IC37, 38
PLD (L6038B, C)
(ADDRESS/CAS DECODER)
IC25
MD74HC123AP
(MONO MULTI)
TO GENE LOCK PLL (IC6)
IC31
PLD (L6038D)
IC29
MD74HC367P
(3 STATE BUFFER)
IC22 YM3623B
(DIGITAL AUDIO INTERFACE RECEIVER)
IC39 ICS2008V
SMPTE TIME CODE
RECEIVER/GENERATOR
IC24 CS8402A-CP
(DIGITAL AUDIO TRANSMITTER)
IC26
MD74HC02P
IC30 MB89352A-P-G
(SCSI INTERFACE)
IC17 μPD72069GF
(FDD CONTROLLER)
IC14 LC7981
(LCD DRIVER)
LCD UNIT
FLOPPY DISK DRIVE UNIT
T1
STEP UP
EL POWER
SCSI/OPT PCB
MAIN PCB
AD/DA PCB
DIO JACK PCB
FOOT SW
SMPTE OUT
SMPTE IN
AES/EBU OUT
AES/EBU IN
TO OPTIONAL HDD OR MO
DIGITAL AUDIO SIGNAL LINE
S3200XL
MAIN
BLOCK DIAGRAM
No.4-4 L603954M
A1

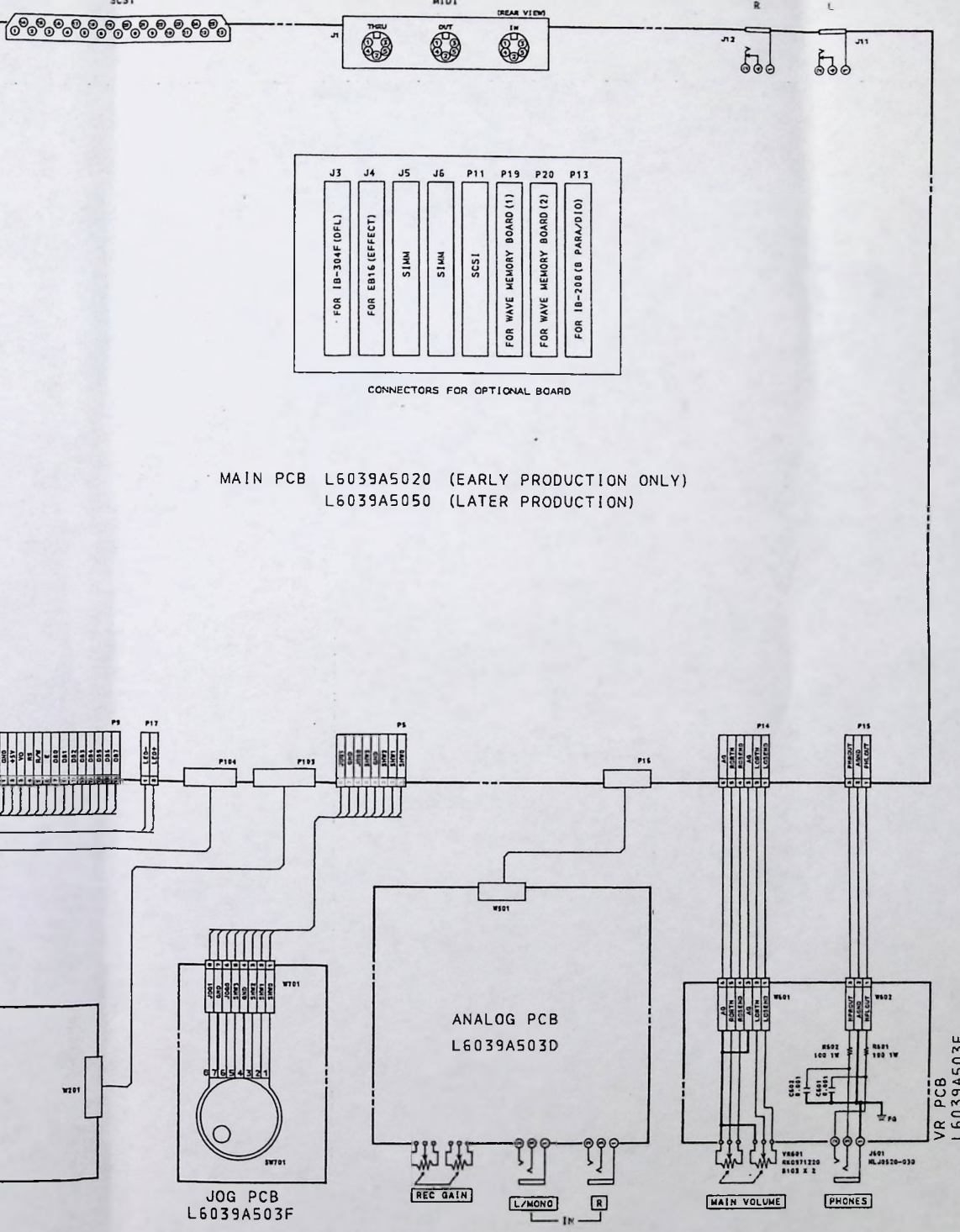


	J	A, C	E, V, B
F1	250V 1.6A	125V 1.6A	250V T1.25A
F2	250V 5A	125V 5A	250V T4A
F3	250V 1A	125V 1A	250V T800mA
F4	250V 1A	125V 1A	250V T800mA

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMENGED 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

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W(J)
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV

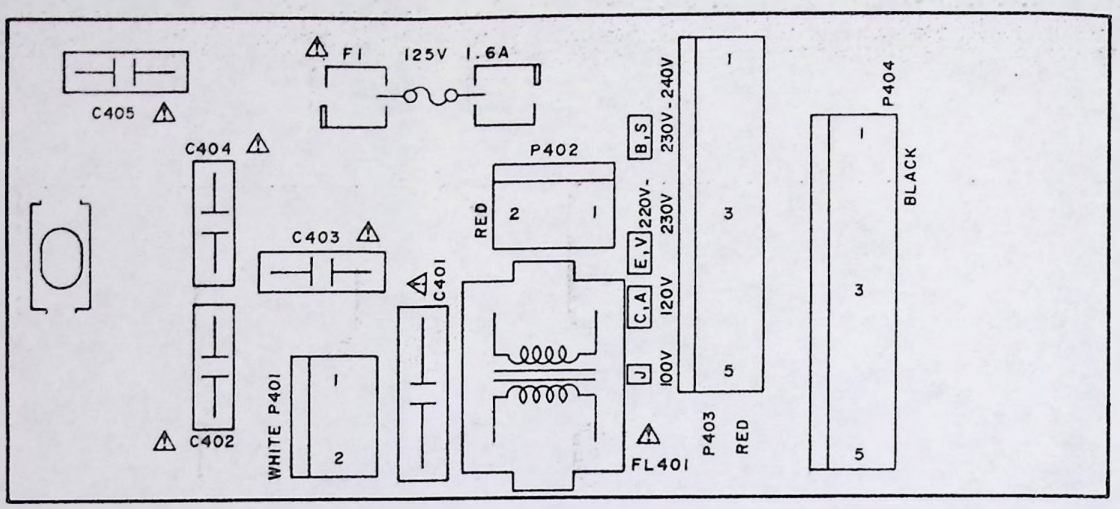


J3 FOR IB-304F(DFL)
J4 FOR EB16(EFFECT)
J5 SIMM
J6 SIMM
P11 SCSI
P19 FOR WAVE MEMORY BOARD(1)
P20 FOR WAVE MEMORY BOARD(2)
P13 FOR IB-208(8 PARA/DIO)

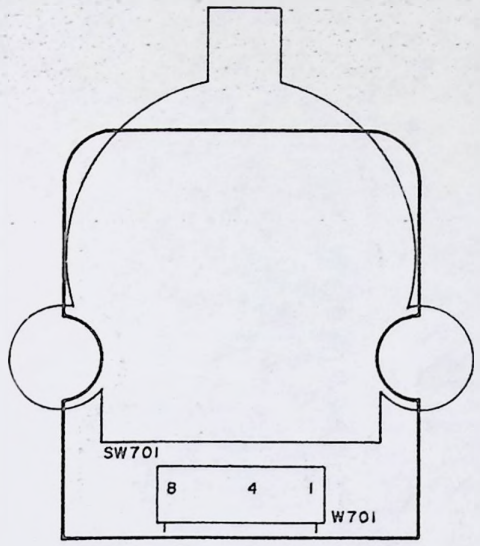
CONNECTORS FOR OPTIONAL BOARD

MAIN PCB L6039A5020 (EARLY PRODUCTION ONLY)
L6039A5050 (LATER PRODUCTION)

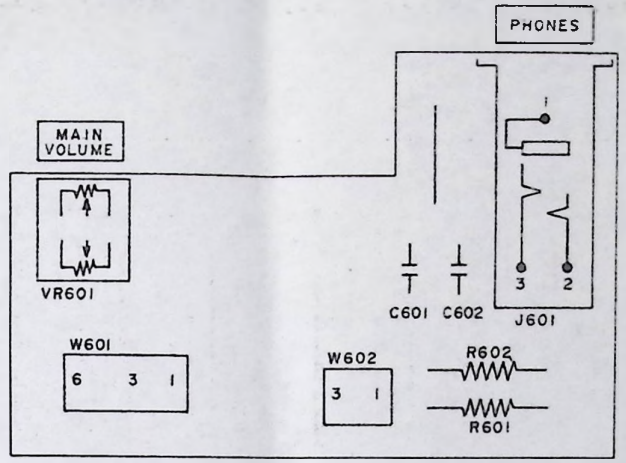
S2000
CONNECTION DIAGRAM
NO.18-1 L603901M
A1



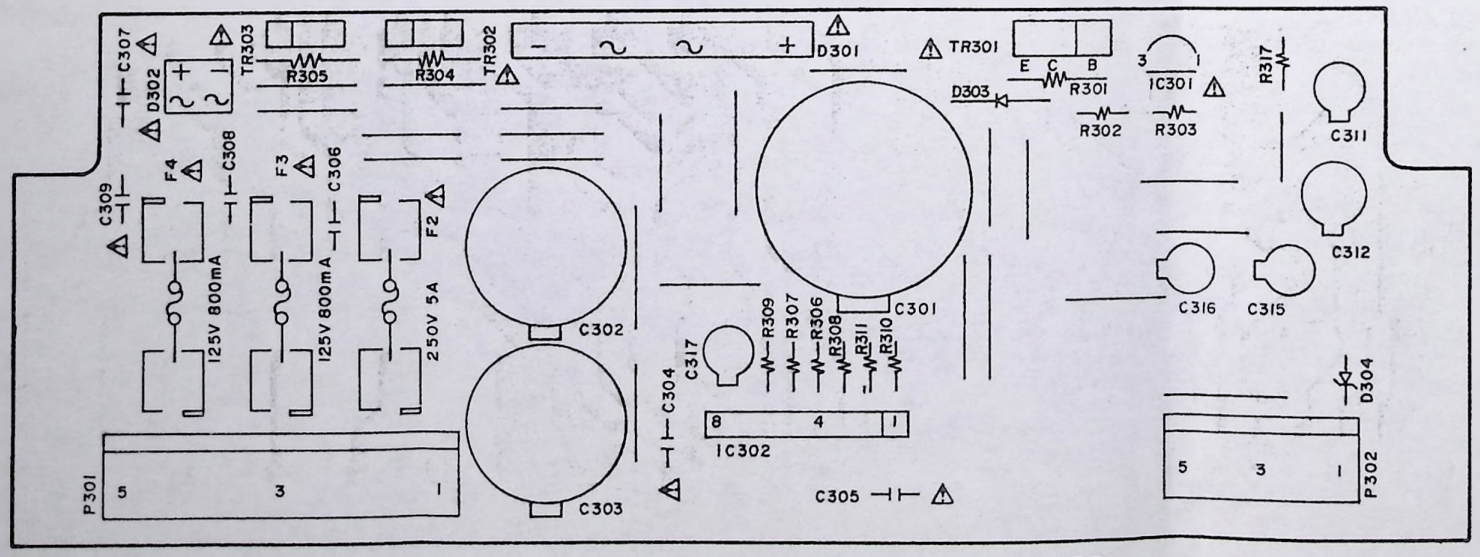
FILTER PCB L6039A503C



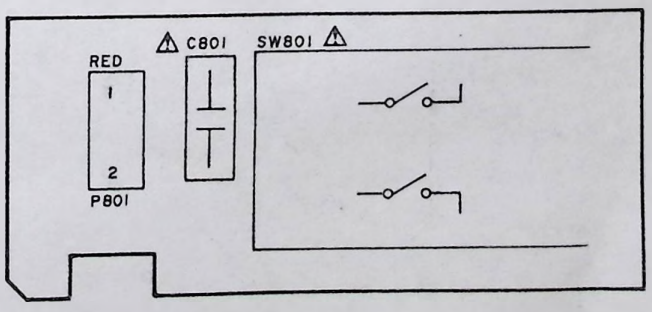
JOG PCB
L6039A503F



VR PCB L6039A503E



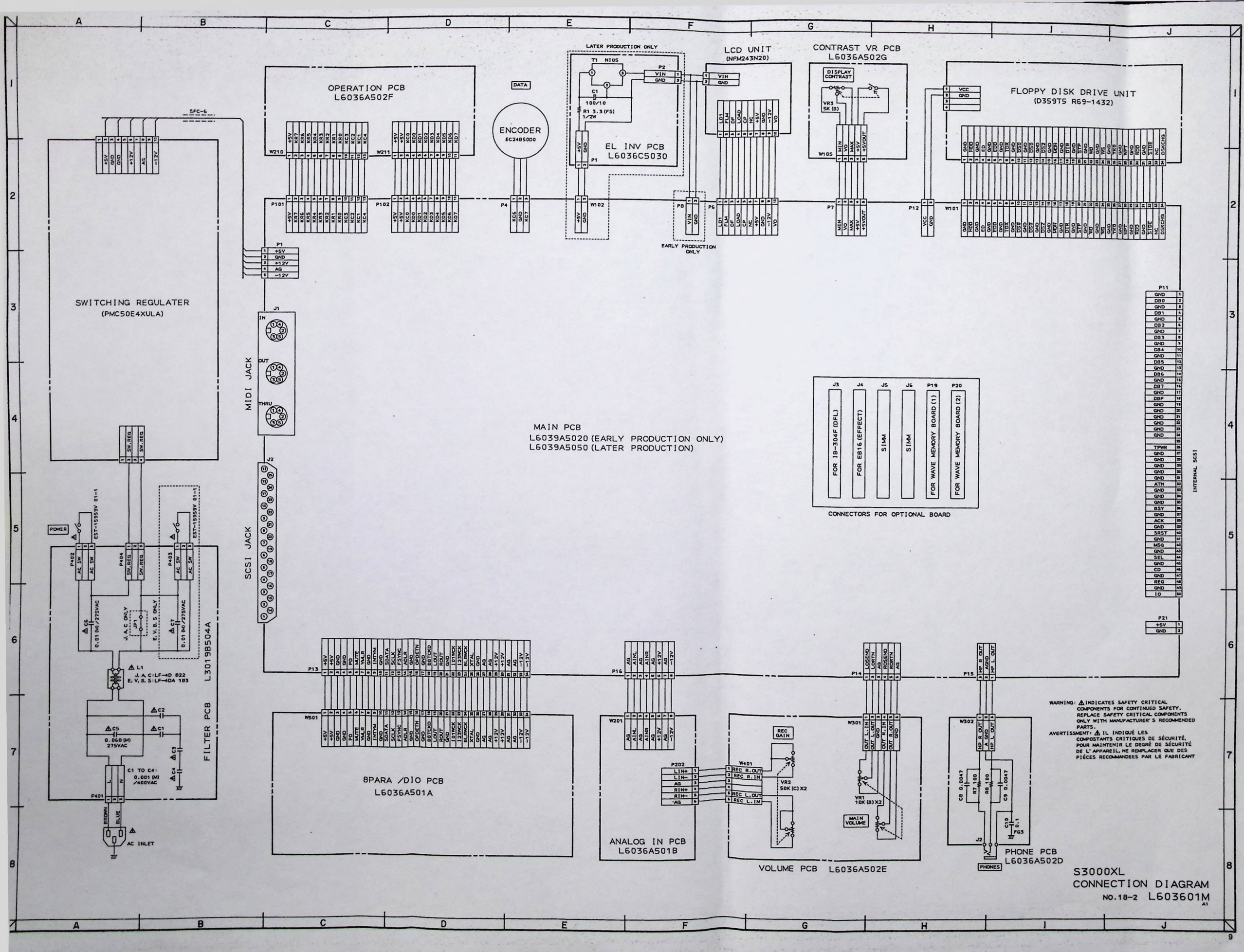
POWER SUPPLY PCB L6039A503B



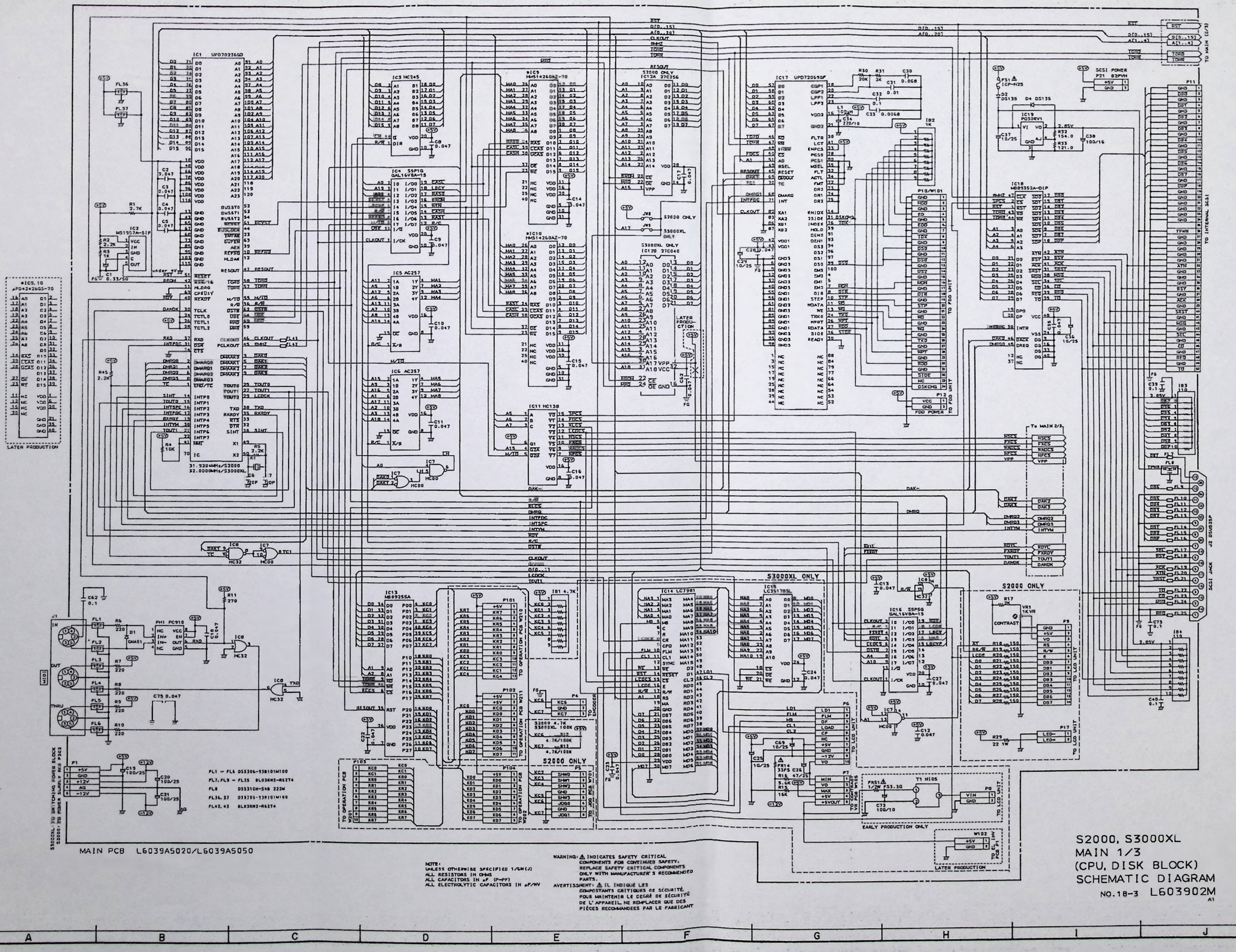
POWER SW PCB L6039A503G

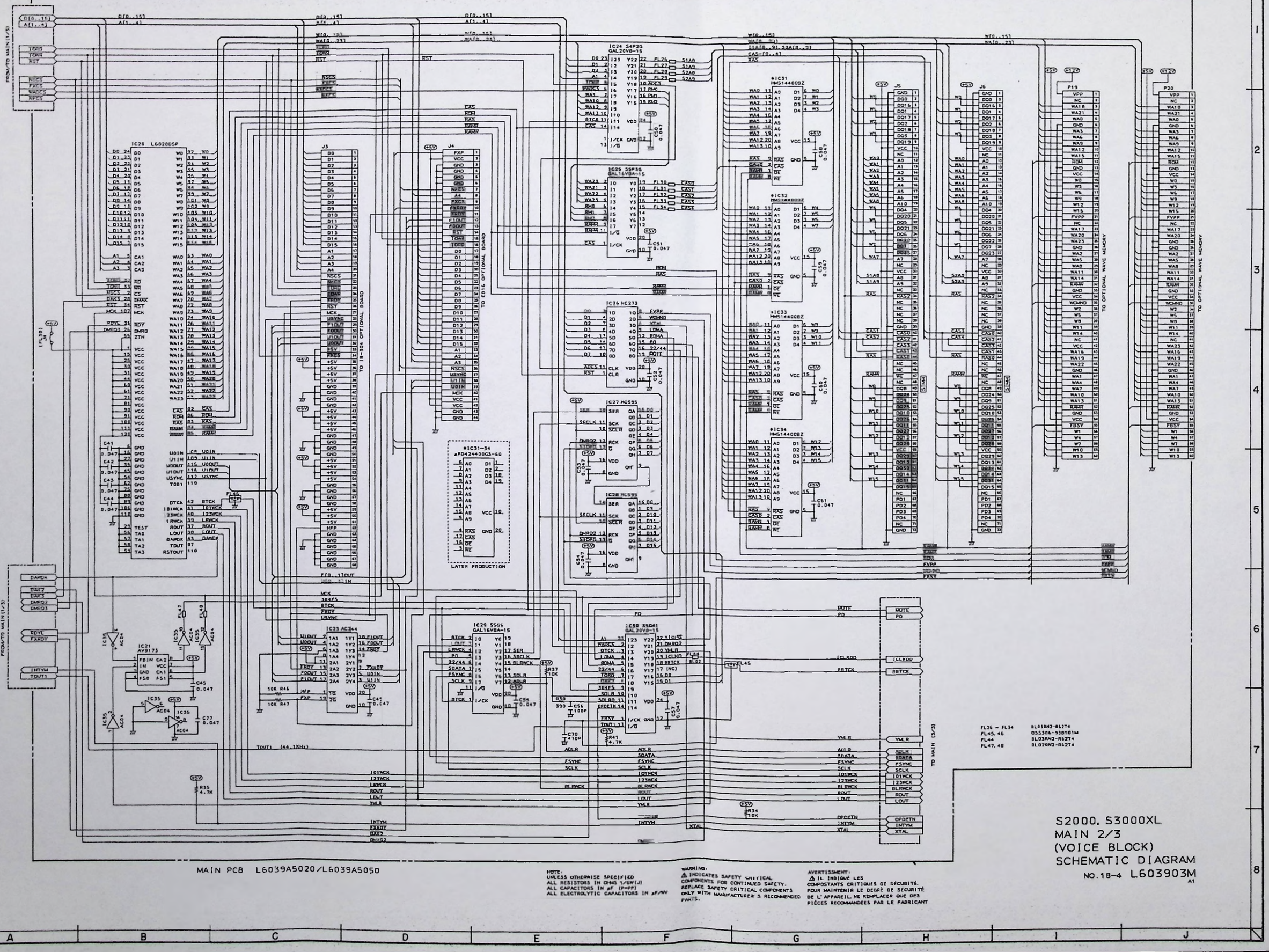
WARNING ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
RECOMMENDED PARTS

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



S3000XL
CONNECTION DIAGRAM
NO.18-2 L603601M
A1

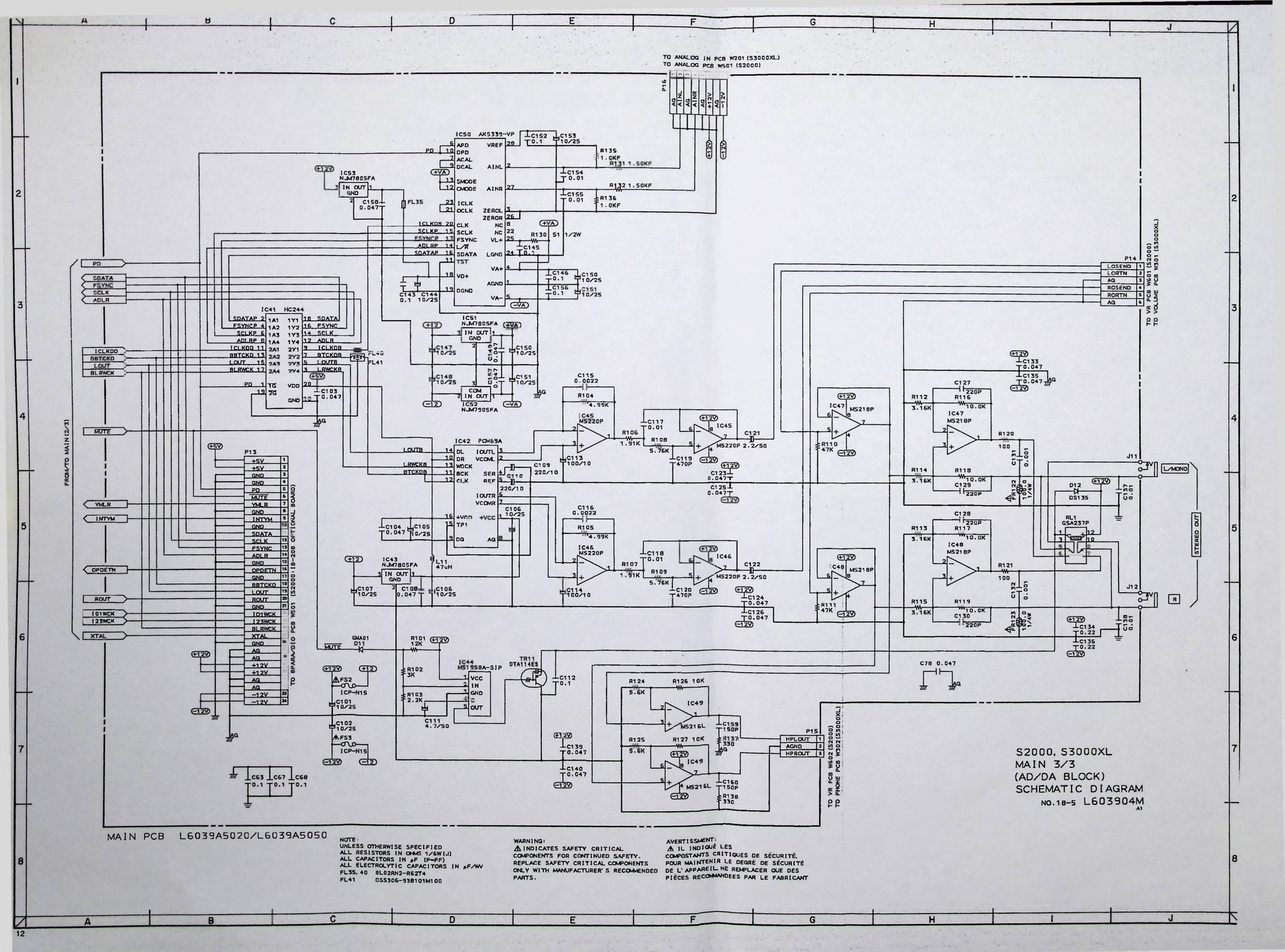

IC1 UPD70236GD
IC2 MS1957A-51P
IC3 HC245
IC4 55P10
IC5 AC257
IC6 AC257
IC7 HC00
IC8 HC32
IC9 HM514260AZ-70
IC10 HM514260AZ-70
IC11 HC139
IC12A 27C256
IC12B 27C040
IC13 MB89255A
IC14 LC7981
IC15 LC35178SL
IC16 SSP5G GAL16V8A-15
IC17 UPD720593GF
IC18 MB89352A-01P
IC19 PQ30RV1
S2000 ONLY
S3000XL ONLY
LATER PRODUCTION
EARLY PRODUCTION ONLY
TO FDD UNIT
TO LCD UNIT
TO OPERATION PCB
TO ENCODER
TO MAIN 2/3
TO INTERNAL SCSI
SCSI JACK
FDD POWER
SCSI POWER
MAIN PCB L6039A5020/L6039A5050
S2000, S3000XL
MAIN 1/3
(CPU, DISK BLOCK)
SCHEMATIC DIAGRAM
NO.18-3 L603902M
A1



NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W (J)
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV

WARNING:
⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

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



NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W(J)
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV
FL35, 40 BL02RN2-R62T4
FL41 DSS306-93B101M100

WARNING:
⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSMENT:
⚠ IL INDIQUÉ LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

PRINCIPAL PARTS LOCATION

CONNECTORs

J1	A3,4
J2	A4,5
J3	F2,3
J4	F1,2
J5	D2
J6	D2
J11	A1
J12	A2
P1	C2,3
P4	F3
P5	F3
P6	E4
P7	E5
P8	D,E5
P9	F5
P10	F5
P11	A,B5
P12	E5
P13	C3
P14	F1
P15	F1
P16	F1
P17	F4
P19	D1,2
P20	E1,2
P21	B5
P101	F3,4
P102	F4
P103	F4
P104	F4,5

FUSE RESISTORs/FUSEs

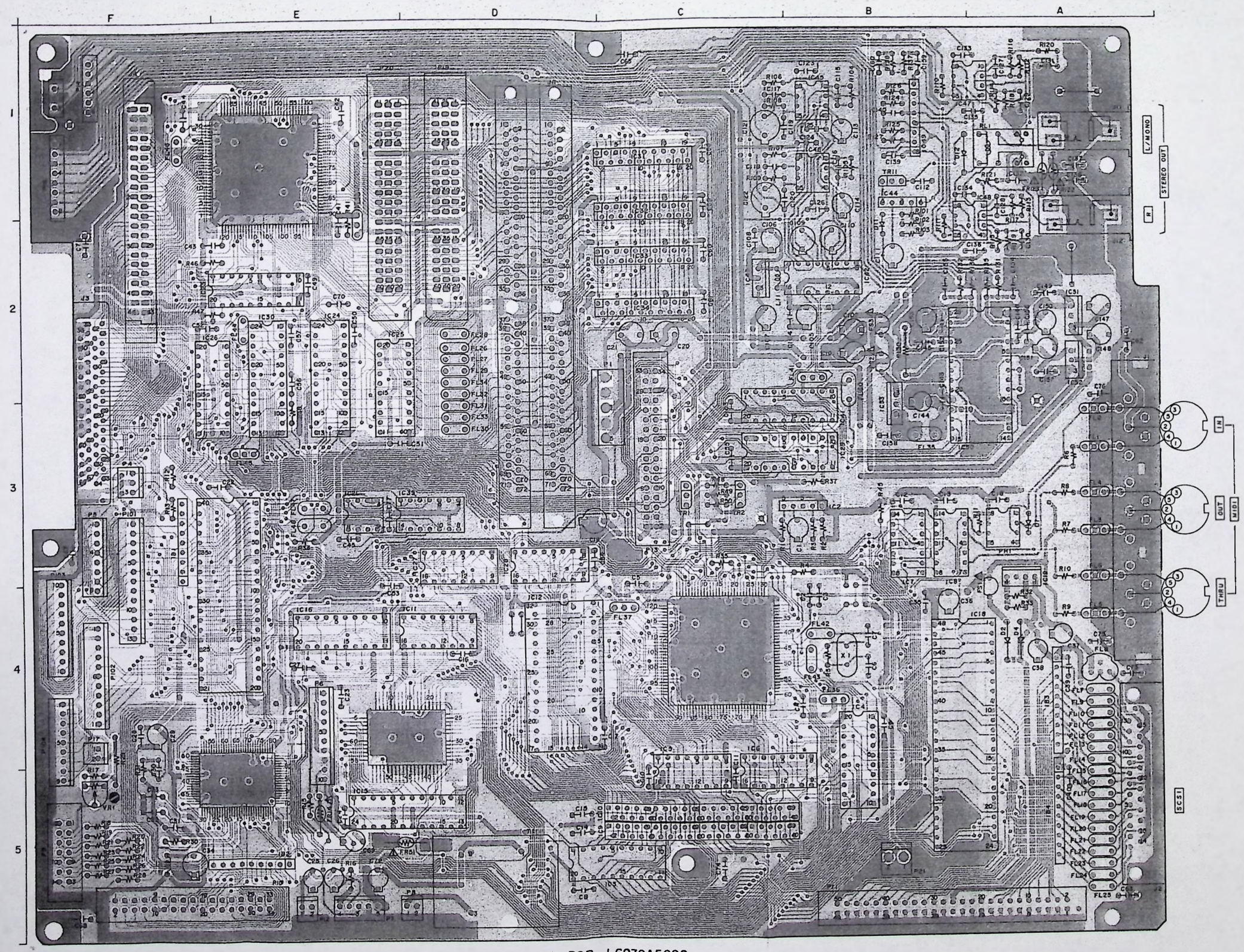
FR14	E5
FR51	E5
FR122	A1
FR123	A1
FS1	A4
FS2	B2
FS3	B2

ICs

IC1	C4
IC2	B3
IC3	C,D5
IC4	B4,5
IC5	C5
IC6	B,C5
IC7	B3
IC8	B3
IC9	C5
IC10	C5
IC11	D4
IC12	D4
IC13	E3,4
IC14	D,E4
IC15	D,E5
IC16	E4
IC17	E,F5
IC18	B4,5
IC19	A4
IC20	E1
IC21	E3
IC23	E2
IC24	E2,3
IC25	E2,3
IC26	F2,3
IC27	D3
IC28	D3
IC29	B,C3
IC30	E2,3
IC31	C1
IC32	C1,2
IC33	C2
IC34	C2
IC35	D3
IC41	B,C3
IC42	B2
IC43	C2
IC44	B2
IC45	B1
IC46	B1
IC47	A,B1
IC48	A,B2
IC49	B1
IC50	A,B2,3
IC51	A2
IC52	A2
IC53	B3

TRANSISTORs

TR1	C3
TR2	C3
TR11	B1



MAIN PCB L6039A5020

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 DEGRE DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

PRINCIPAL PARTS LOCATION

CONNECTORs

J1	A3,4
J2	A4,5
J3	F2,3
J4	F1,2
J5	D2
J6	D2
J11	A1
J12	A2
P1	C2,3
P4	F3
P5	F3
P6	E4
P7	E5
P9	F5
P10	F5
P11	A,B5
P12	E5
P13	C3
P14	F1
P15	F1
P16	F1
P17	F4
P19	D1,2
P20	E1,2
P21	B5
P101	F3,4
P102	F4
P103	F4
P104	F4,5

WIRE

W102	D,E5

FUSE RESISTORs/FUSEs

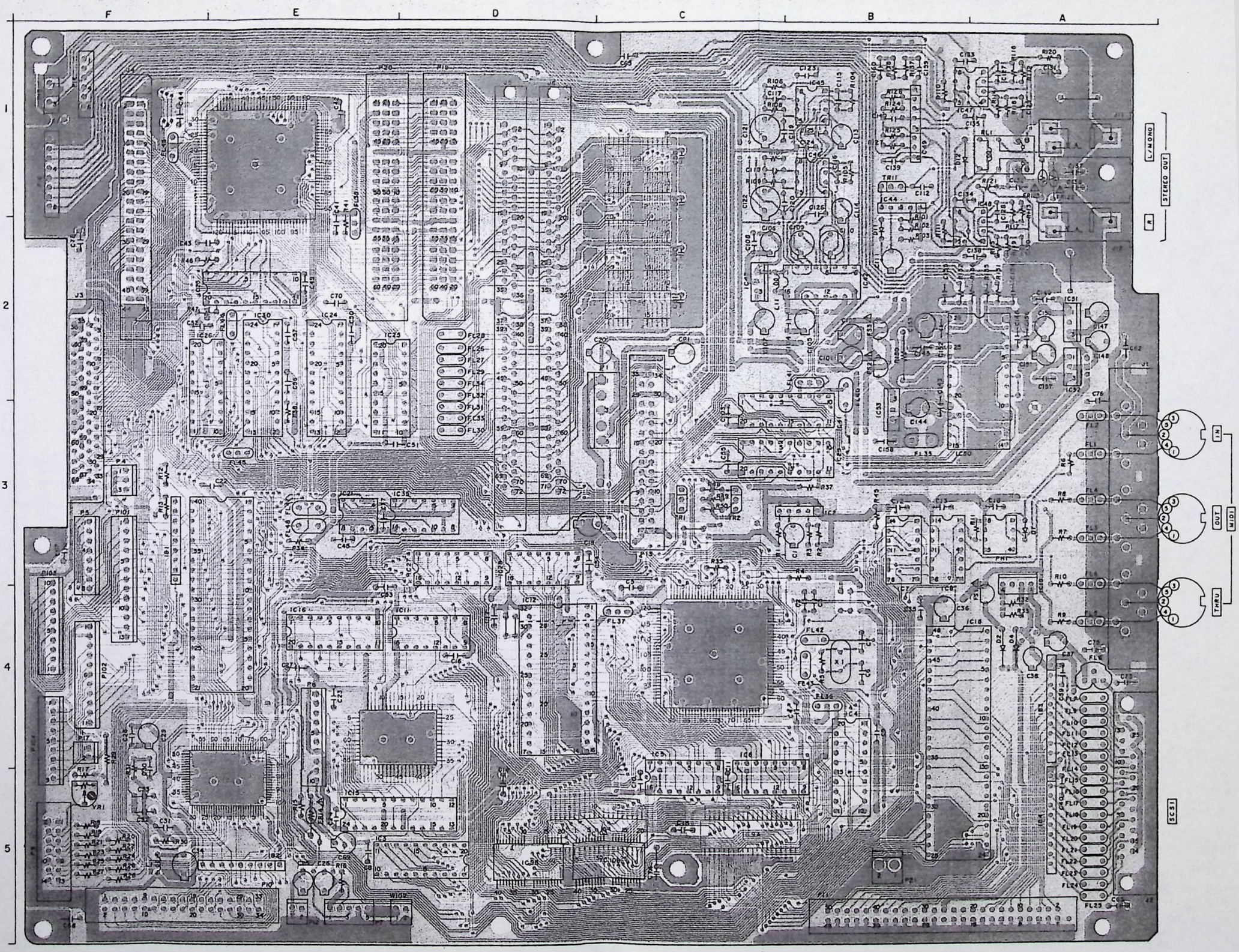
FR14	E5
FR122	A1
FR123	A1
FS1	A4
FS2	B2
FS3	B2

ICs

IC1	C4
IC2	B3
IC3	E5
IC4	B4,5
IC5	C5
IC6	B,C5
IC7	B3
IC8	B3
IC9A	C5
IC9B	D5
IC10A	D5
IC10B	D5
IC11	D4
IC12	D4
IC13	E3,4
IC14	D,E4
IC15	D,E5
IC16	E4
IC17	E,F5
IC18	B4,5
IC19	A4
IC20	E1
IC21	E3
IC23	E2
IC24	E2,3
IC25	E2,3
IC26	F2,3
IC27	D3
IC28	D3
IC29	B,C3
IC30	E2,3
IC31	C1
IC32	C1,2
IC33	C2
IC34	C2
IC35	D3
IC41	B,C3
IC42	B2
IC43	C2
IC44	B2
IC45	B1
IC46	B1
IC47	A,B1
IC48	A,B2
IC49	B1
IC50	A,B2,3
IC51	A2
IC52	A2
IC53	B3

TRANSISTORs

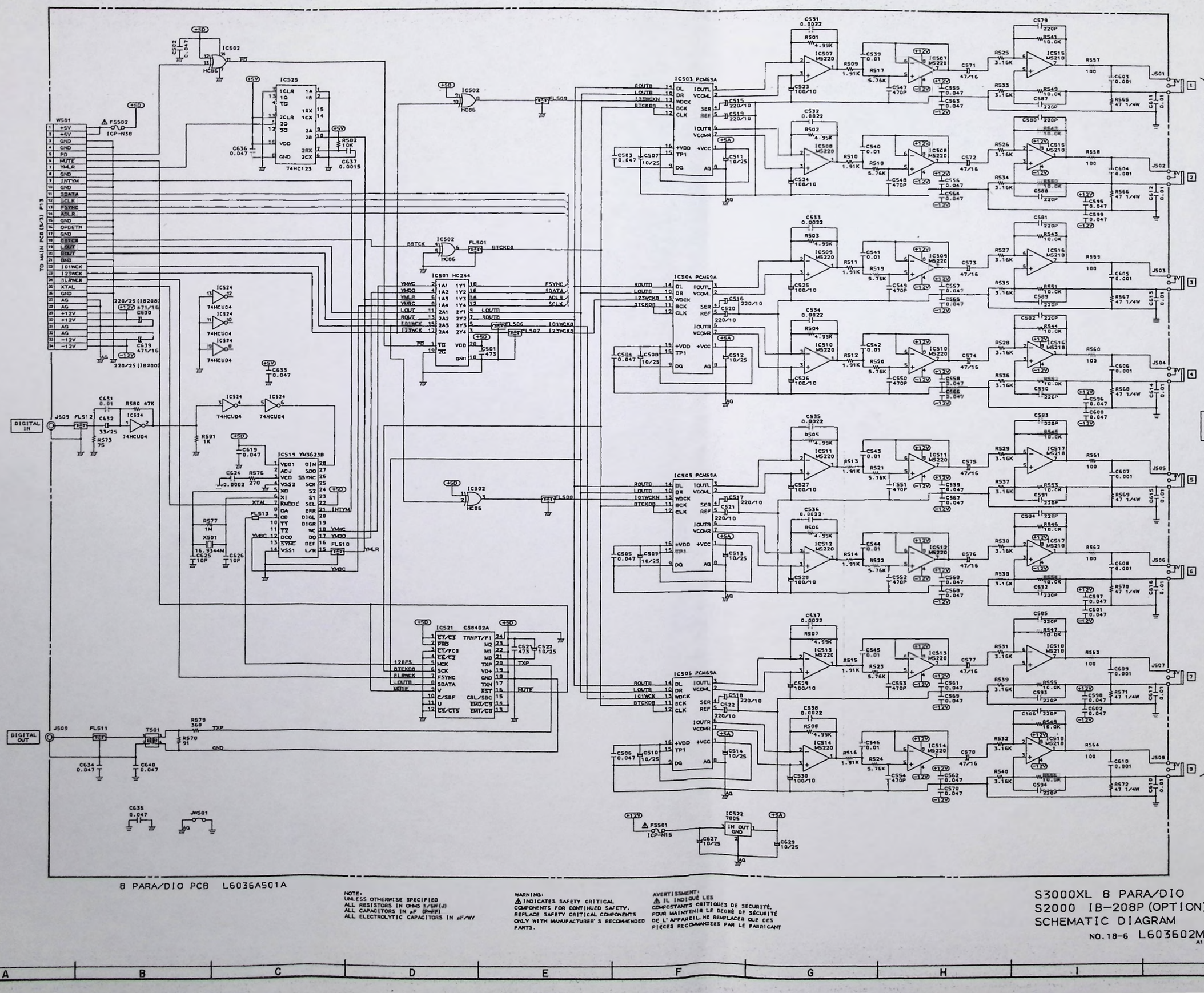
TR1	C3
TR2	C3
TR11	B1

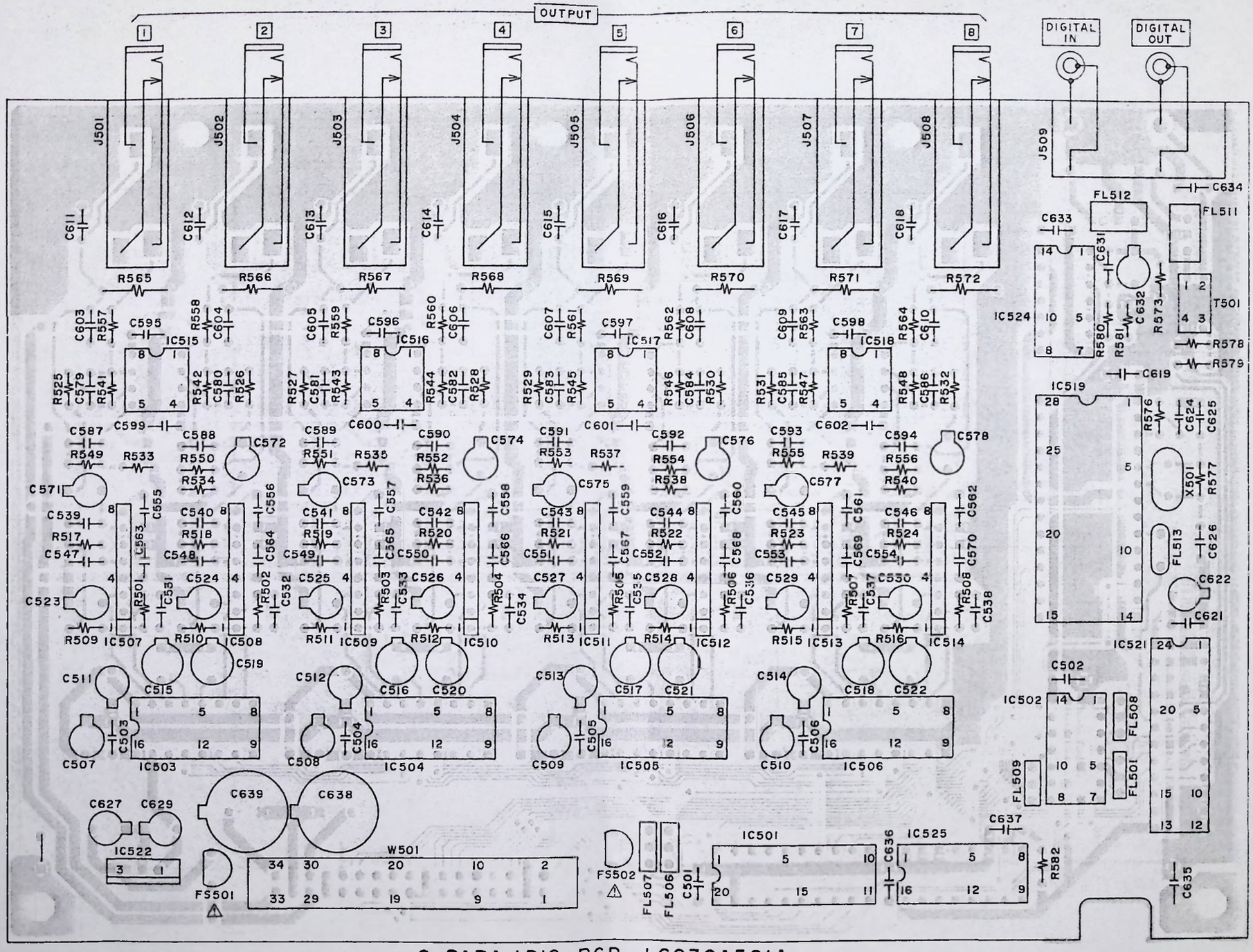


MAIN PCB L6039A5050

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

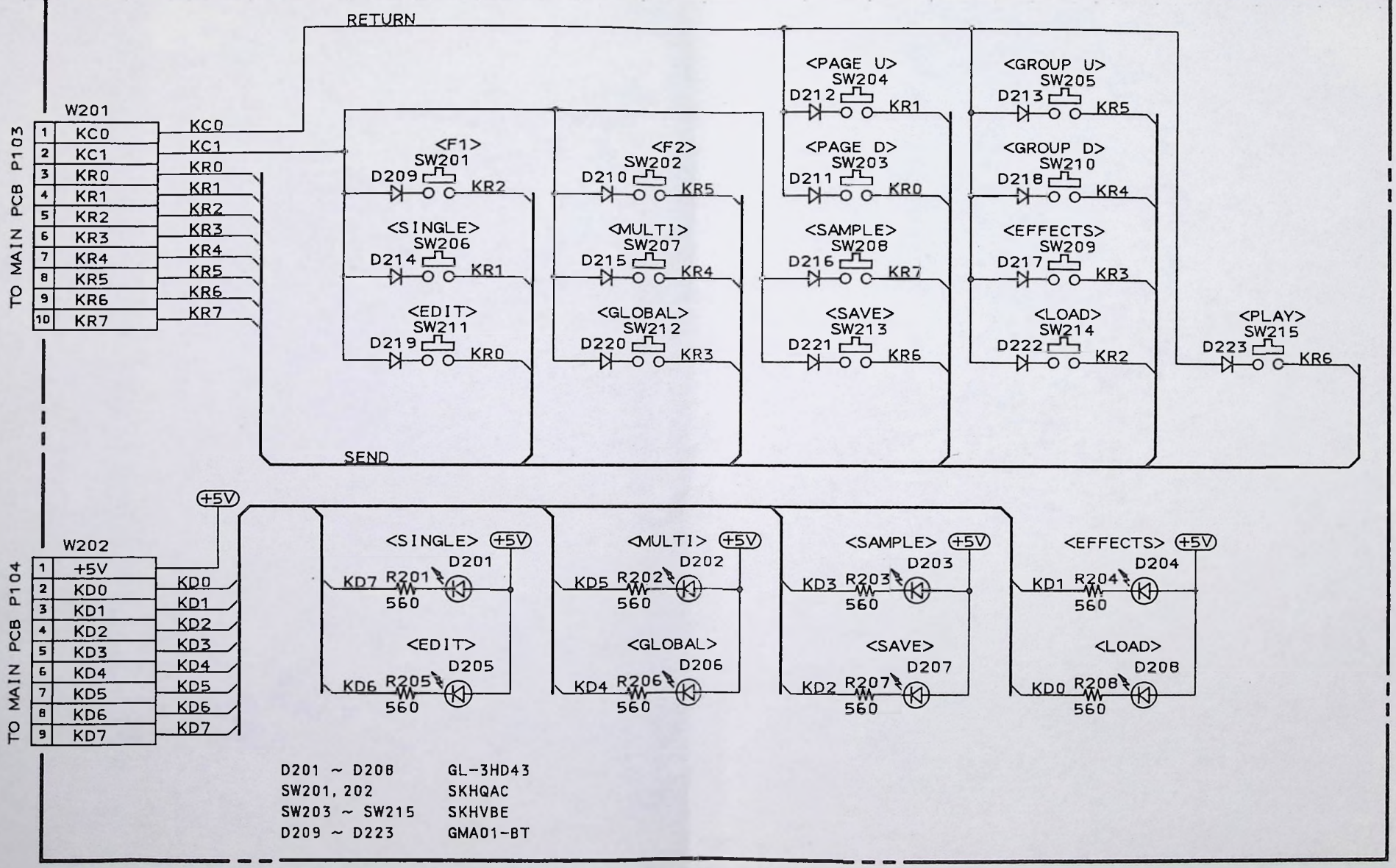

8 PARA/DIO PCB L6036A501A
NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/8W(J)
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/W
WARNING:
⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.
AVERTISSEMENT:
⚠ IL INDIQUÉ LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT
S3000XL 8 PARA/DIO
S2000 IB-208P (OPTION)
SCHEMATIC DIAGRAM
NO.18-6 L603602M
A1



8 PARA/DIO PCB L6036A501A

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 SECURITE POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER QUE DES PIECES RECOMMANDEES PAR LE FABRICANT

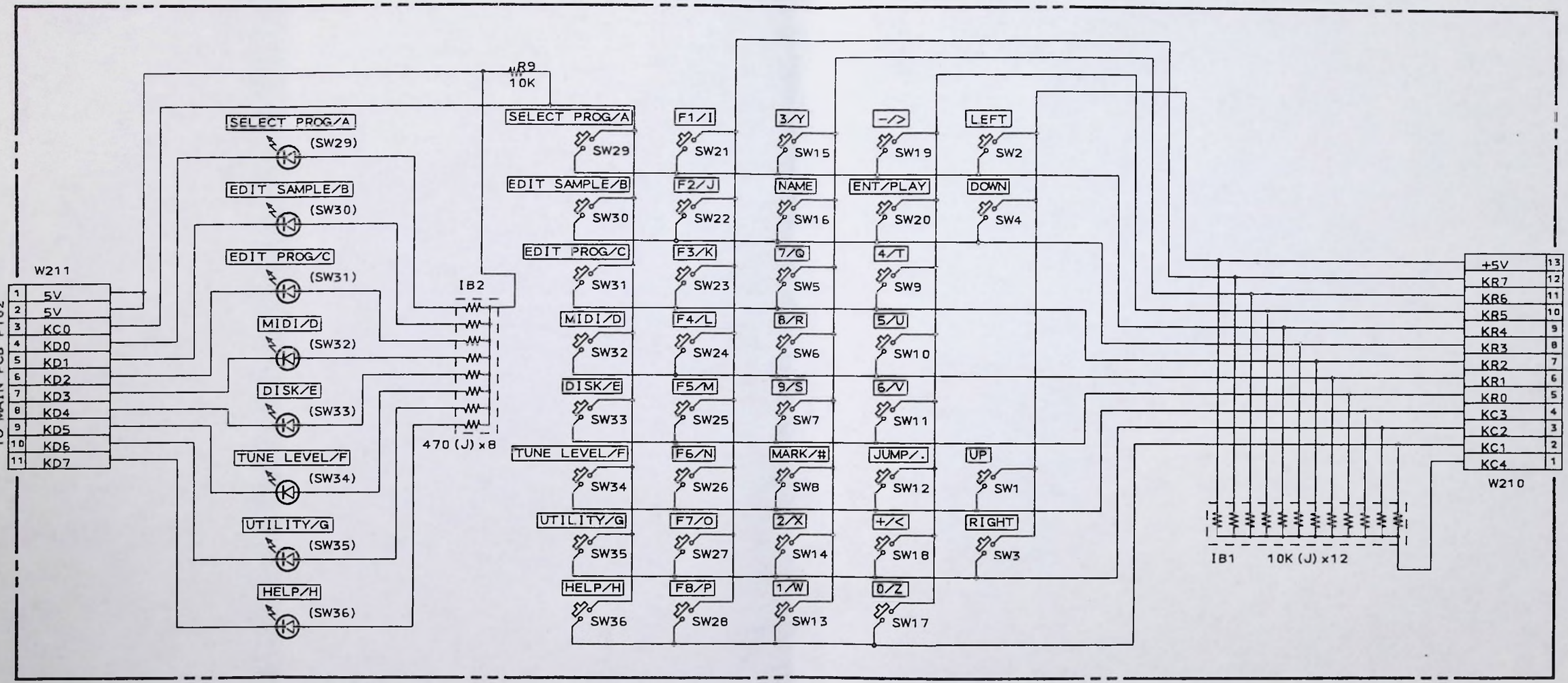


D201 ~ D208 GL-3HD43
SW201, 202 SKHQAC
SW203 ~ SW215 SKHVBE
D209 ~ D223 GMA01-BT

OPERATION PCB L6039A503A

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W(J)
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV

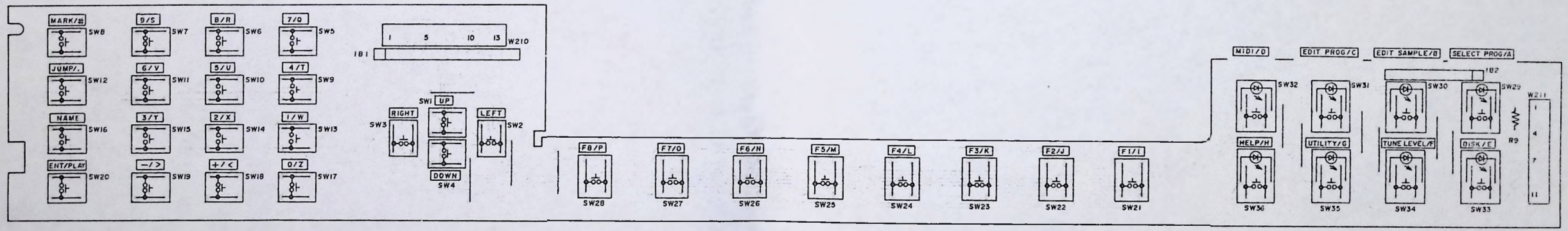
S2000
OPERATION
SCHEMATIC DIAGRAM
NO.18-7 L603905M
A3



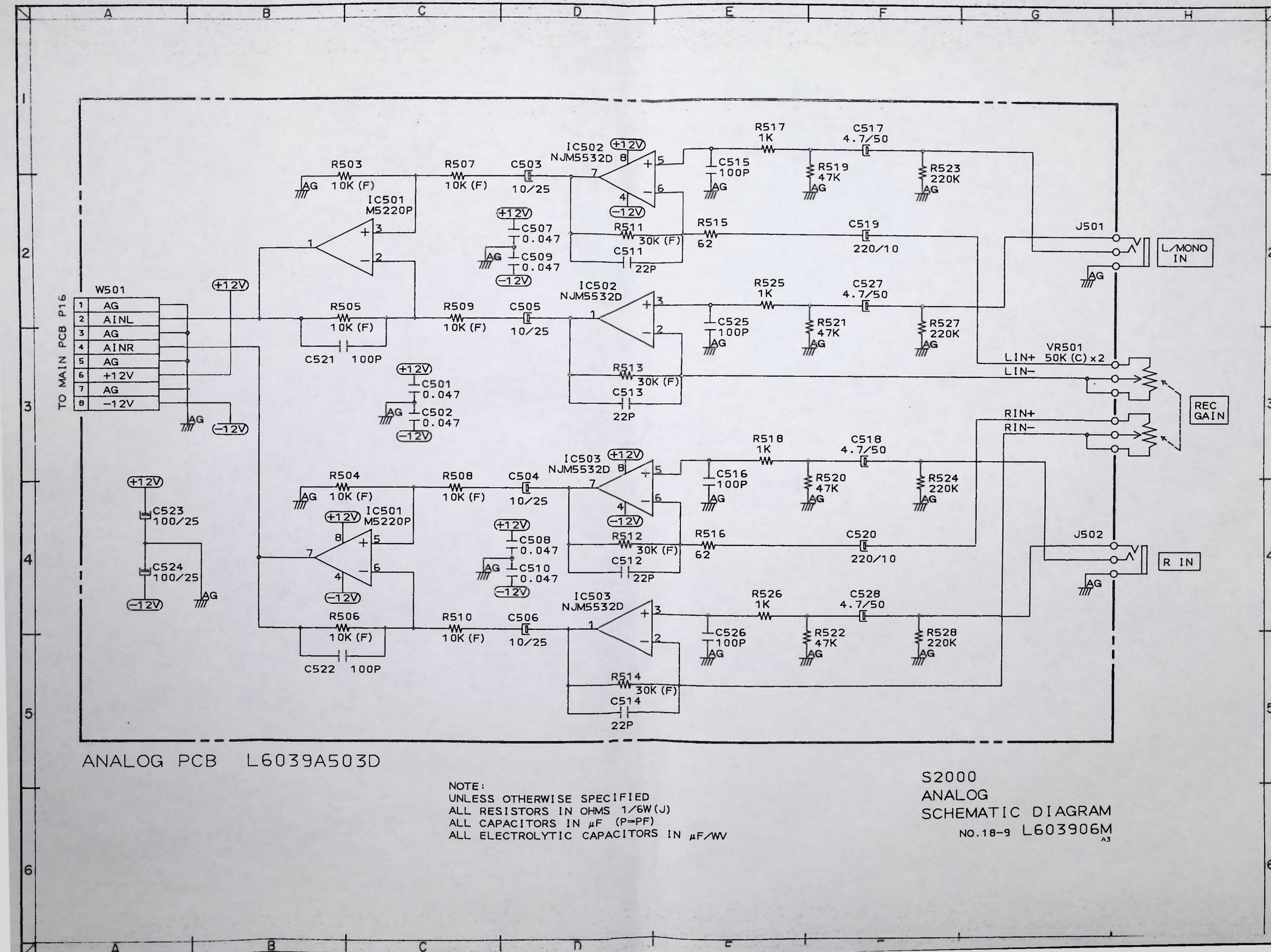
OPERATION PCB L6036A502F

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV

S3000XL
OPERATION
SCHEMATIC DIAGRAM
NO.18-8 L603604M
A3



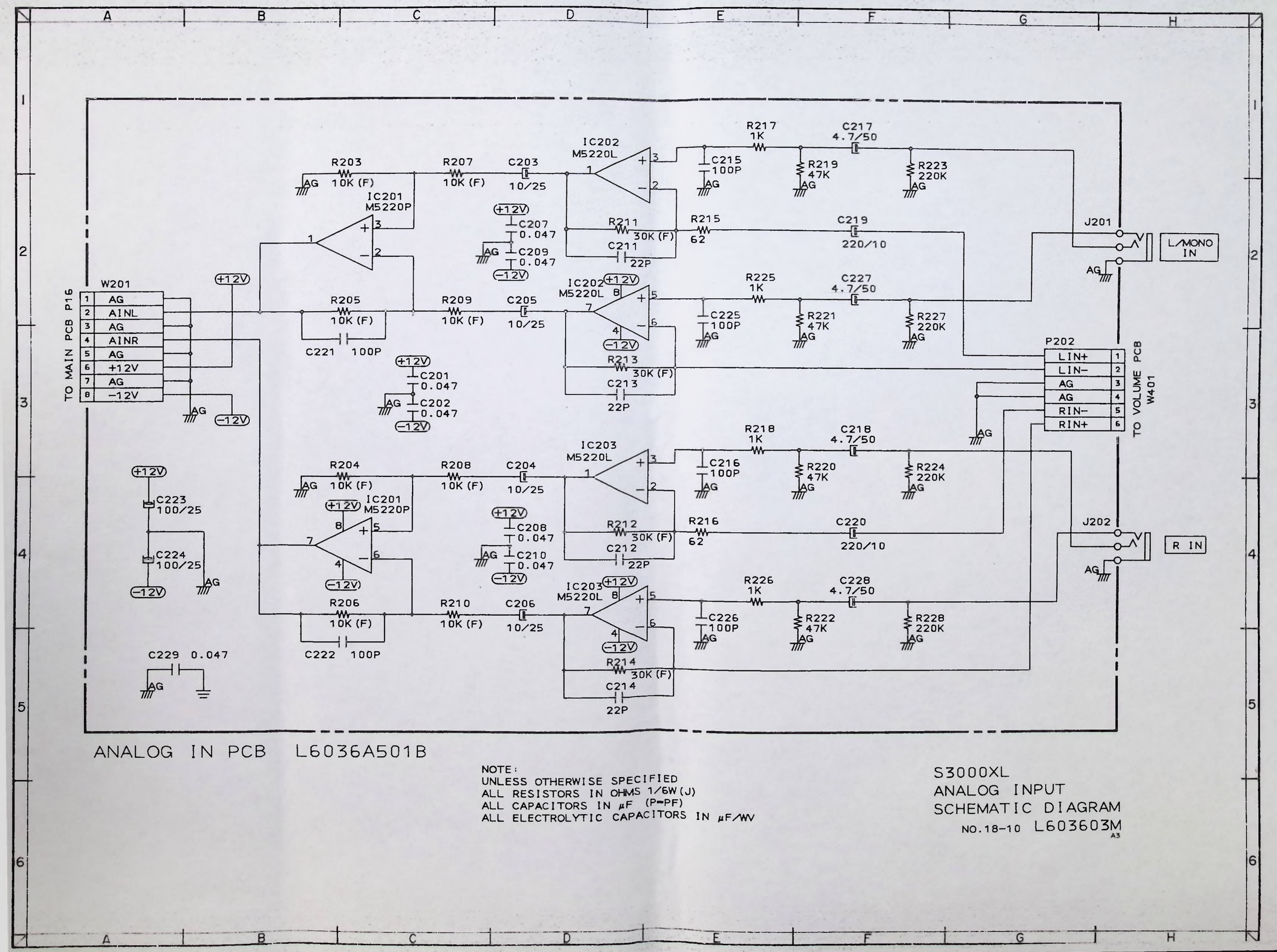
OPERATION PCB L6036A502F



ANALOG PCB L6039A503D

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W(J)
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV

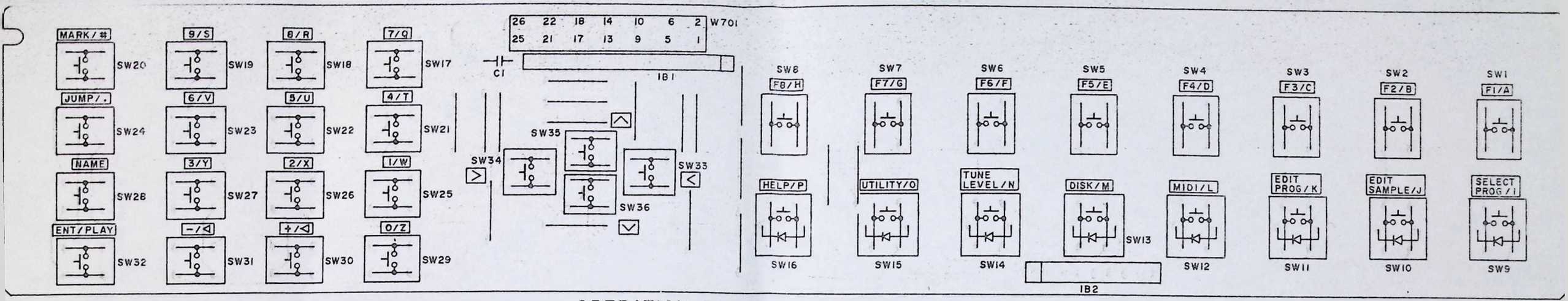
S2000
ANALOG
SCHEMATIC DIAGRAM
NO.18-9 L603906M
A3



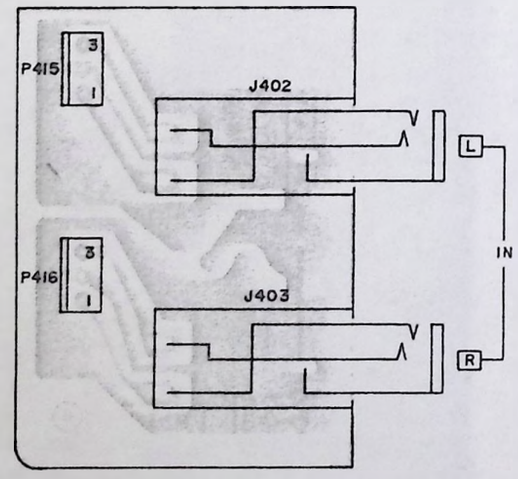
ANALOG IN PCB L6036A501B

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W(J)
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV

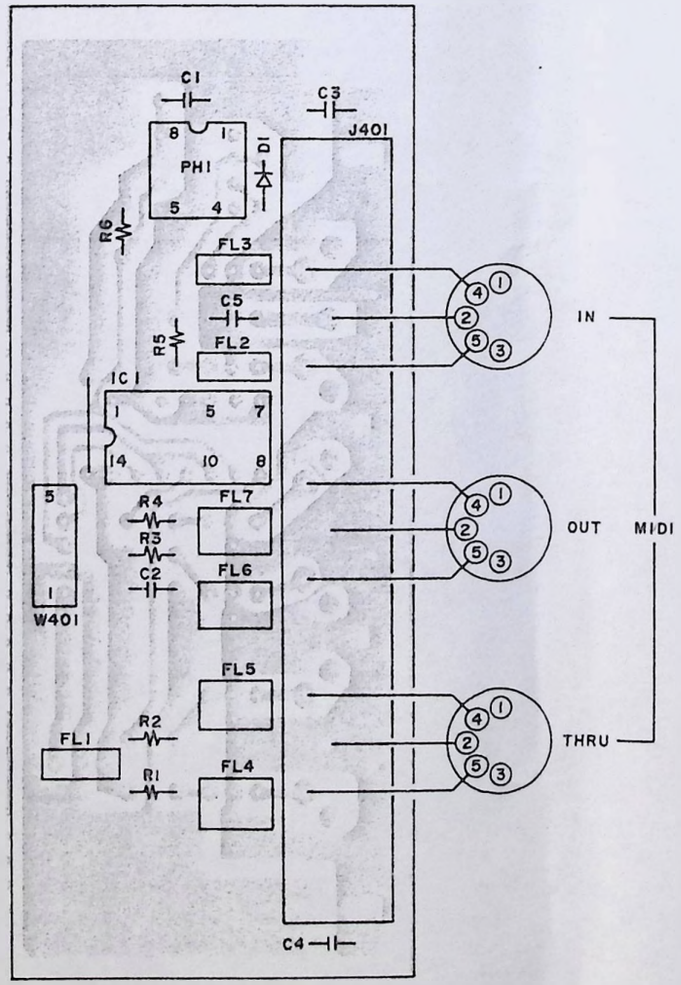
S3000XL
ANALOG INPUT
SCHEMATIC DIAGRAM
NO.18-10 L603603M
A3



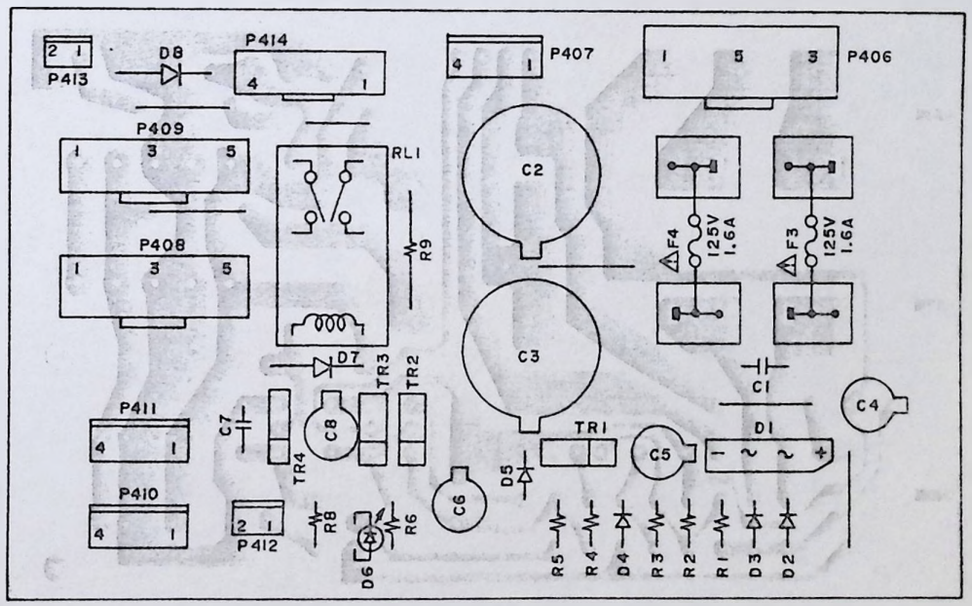
OPERATION PCB L6028A5070



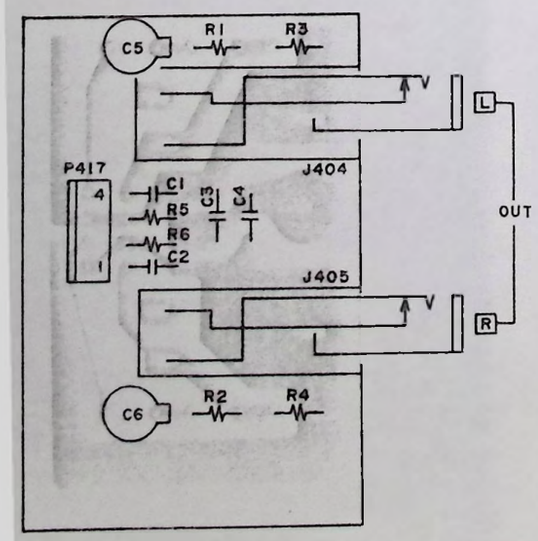
JACK(1) PCB L6028B504E(J1)



MIDI PCB L6028B504C(J1)



POWER SUPPLY PCB L6028B504B(J1)

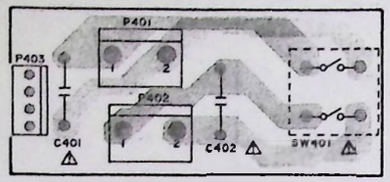


JACK(2) PCB L6028B504F(J1)

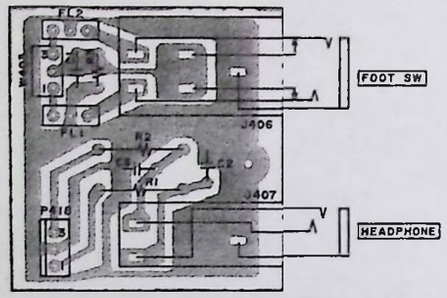
WARNING ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SECURITE POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL. NE REMPLACER QUE DES PIECES RECOMMANDEES PAR LE FABRICANT

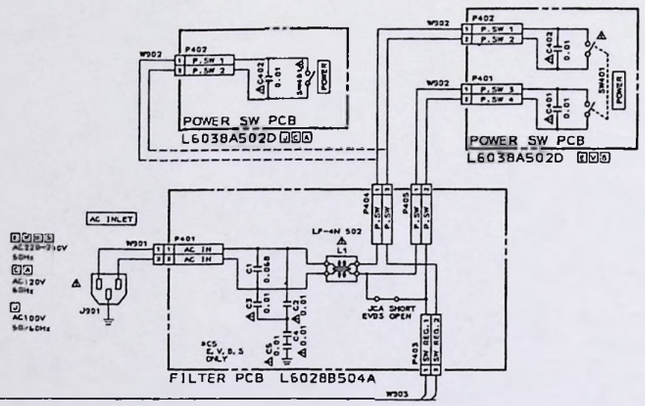
NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.

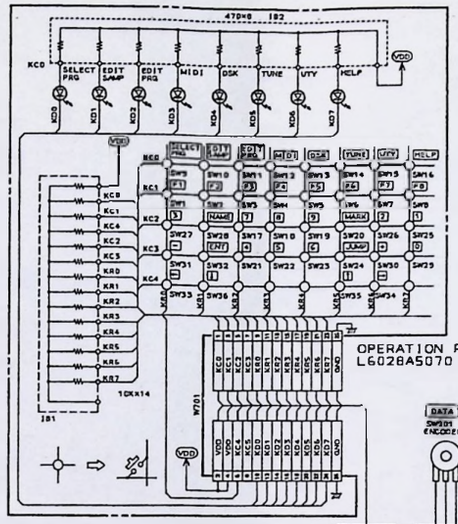


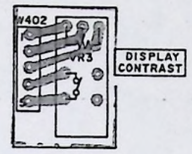
POWER SW PCB L6038A502D



JACK(3) PCB L6028B504G(J1)



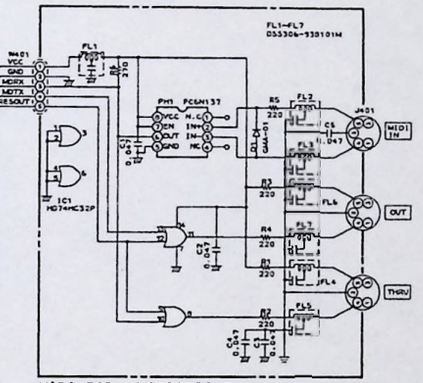


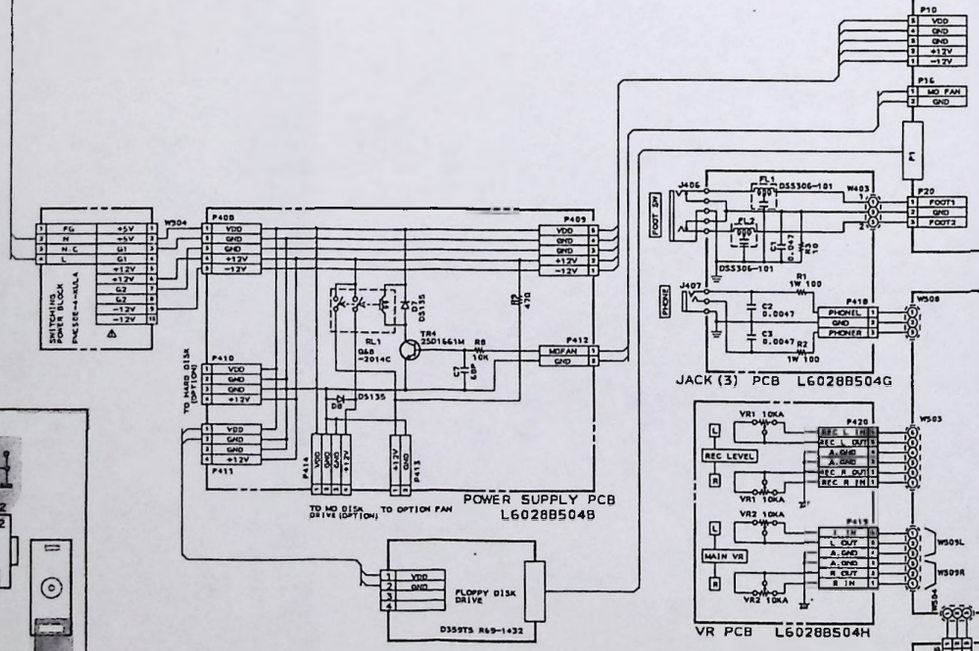


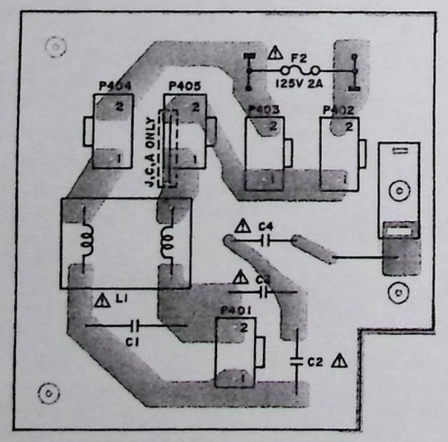
CONTRAST VR PCB
L6028B504D(J1)

CONTRAST VR PCB
L6028B504D

LCD UNIT
NFM243N20

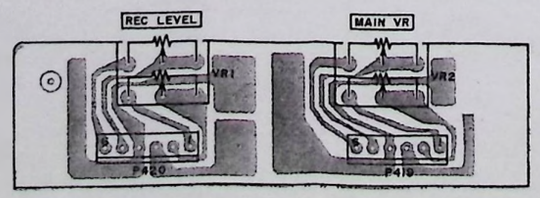






FILTER PCB L6028B504A(J1)

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.

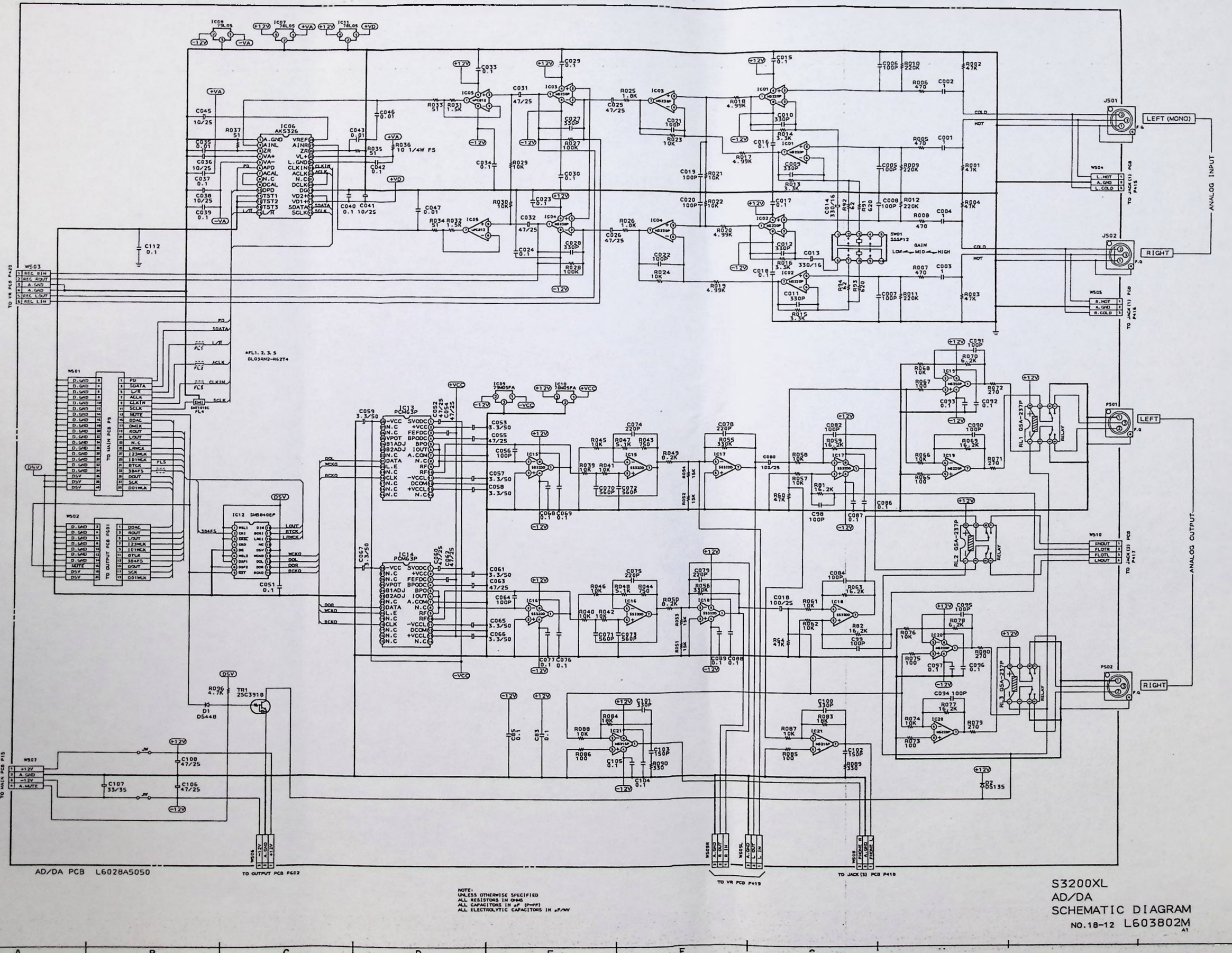


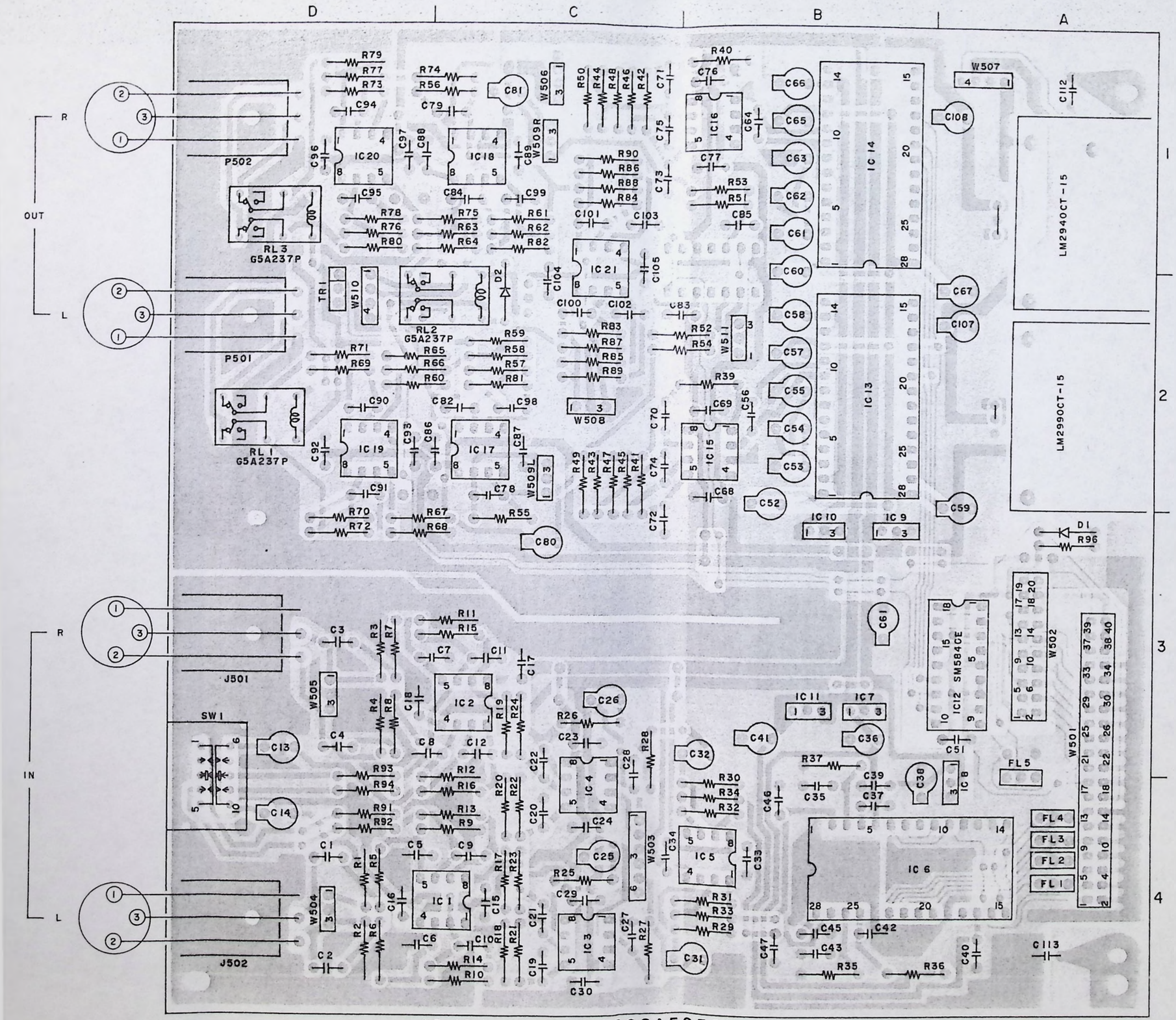
VR PCB L6028B504H(J1)

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/W

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.
AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSTANTS CRITIQUES DE SÉCURITÉ, POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

S3200XL
CONNECTION DIAGRAM
NO.18-11 L603801M
A1


LEFT (MONO)
RIGHT
LEFT
RIGHT
ANALOG INPUT
ANALOG OUTPUT
TO VR PCB P420
TO MAIN PCB P15
TO OUTPUT PCB P601
TO JACK(1) PCB P415
TO JACK(2) PCB P417
TO JACK(3) PCB P418
TO VR PCB P419
AD/DA PCB L6028A5050
S3200XL
AD/DA
SCHEMATIC DIAGRAM
NO.18-12 L603802M
NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN uF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN uF/W



AD/DA PCB L6028A5050(J1)

PRINCIPAL PARTS LOCATION

ICs

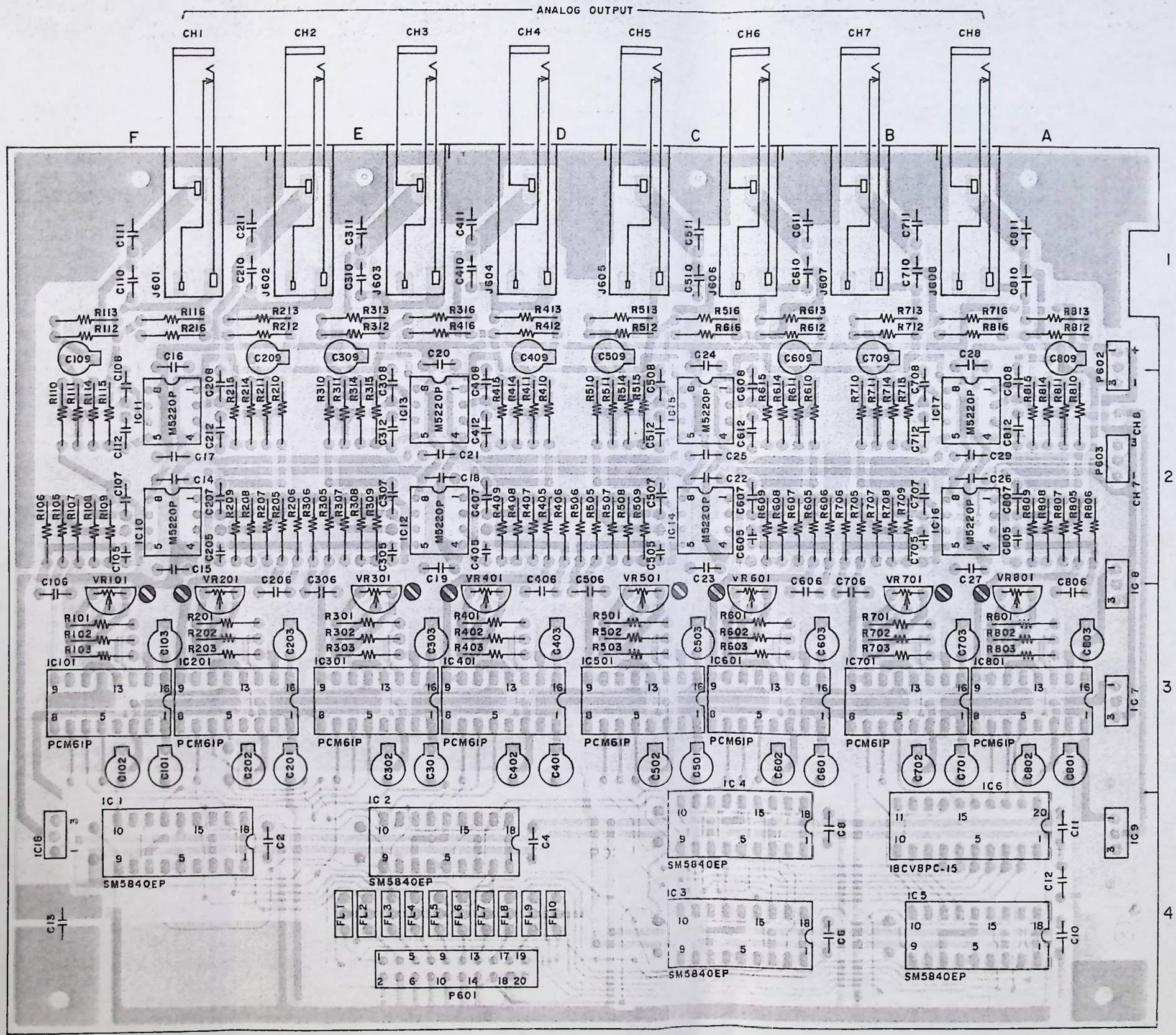
IC1	C4
IC2	C3
IC3	C4
IC4	C3,4
IC5	B4
IC6	A,B4
IC7	B3
IC8	A3,4
IC9	B3
IC10	B3
IC11	B3
IC12	A3
IC13	B2
IC14	B1
IC15	B2
IC16	B1
IC17	C2
IC18	C1
IC19	D2
IC20	D1
IC21	C1,2

TRANSISTOR

TR1	D2

CONNECTORs

W501	A3,4
W502	A3
W503	C4
W504	D4
W505	D3
W506	C1
W507	A1
W508	C2
W509(L)	C2
W509(R)	C1
W510	D2
W511	B2



OUTPUT PCB L6028B5060(J1)

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION

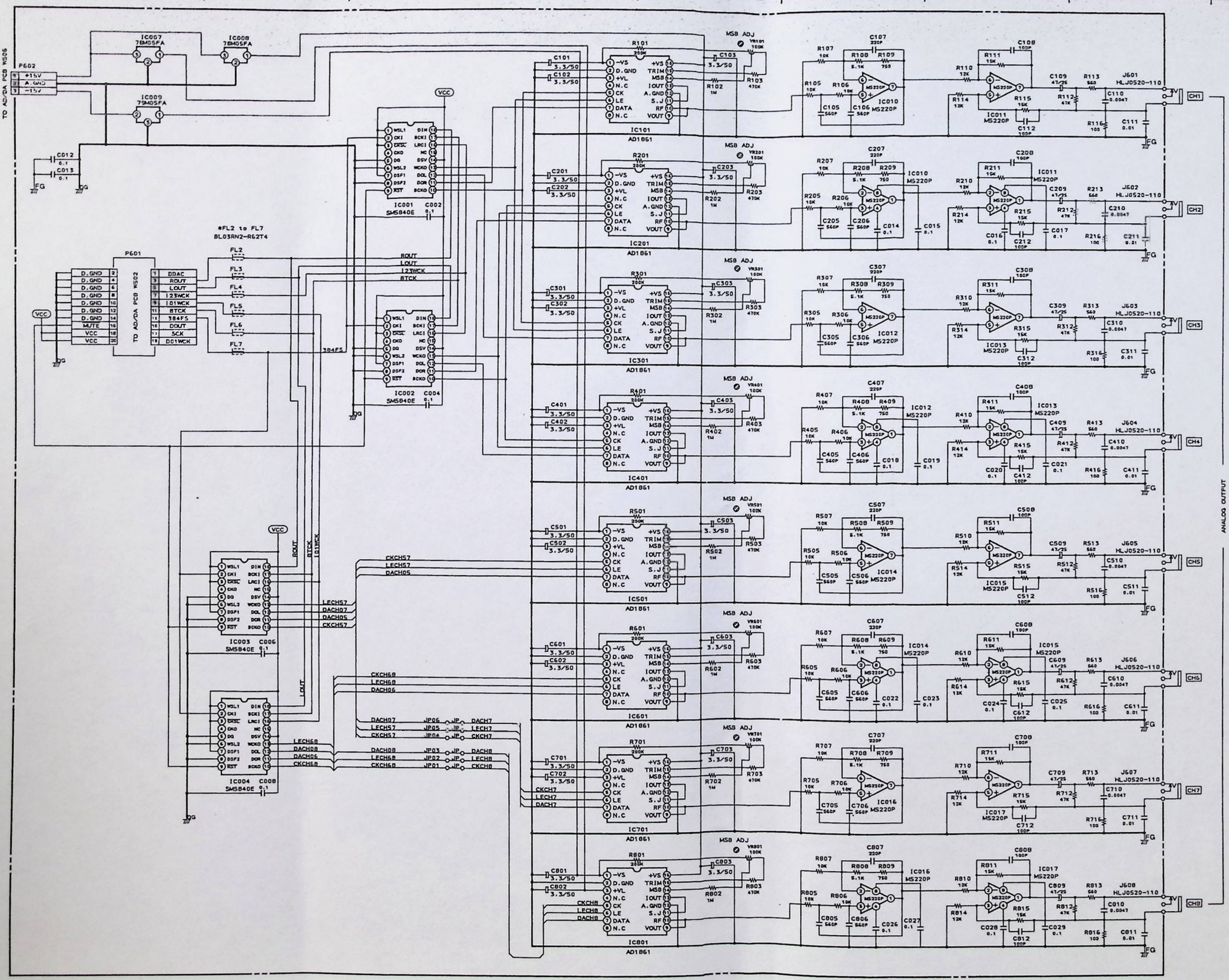
PRINCIPAL PARTS LOCATION

ICs

IC1	F4
IC2	D,E4
IC3	C4
IC4	C4
IC7	A3
IC8	A2,3
IC9	A4
IC10	F2
IC11	F2
IC12	D,E2
IC13	D,E2
IC14	C2
IC15	C2
IC16	A2
IC17	A2
IC18	F4
IC101	F3
IC201	F3
IC301	E3
IC401	D3
IC501	C3
IC601	B,C3
IC701	B3
IC801	A3

CONNECTORs

P601	D,E4
P602	A1,2
P603	A2

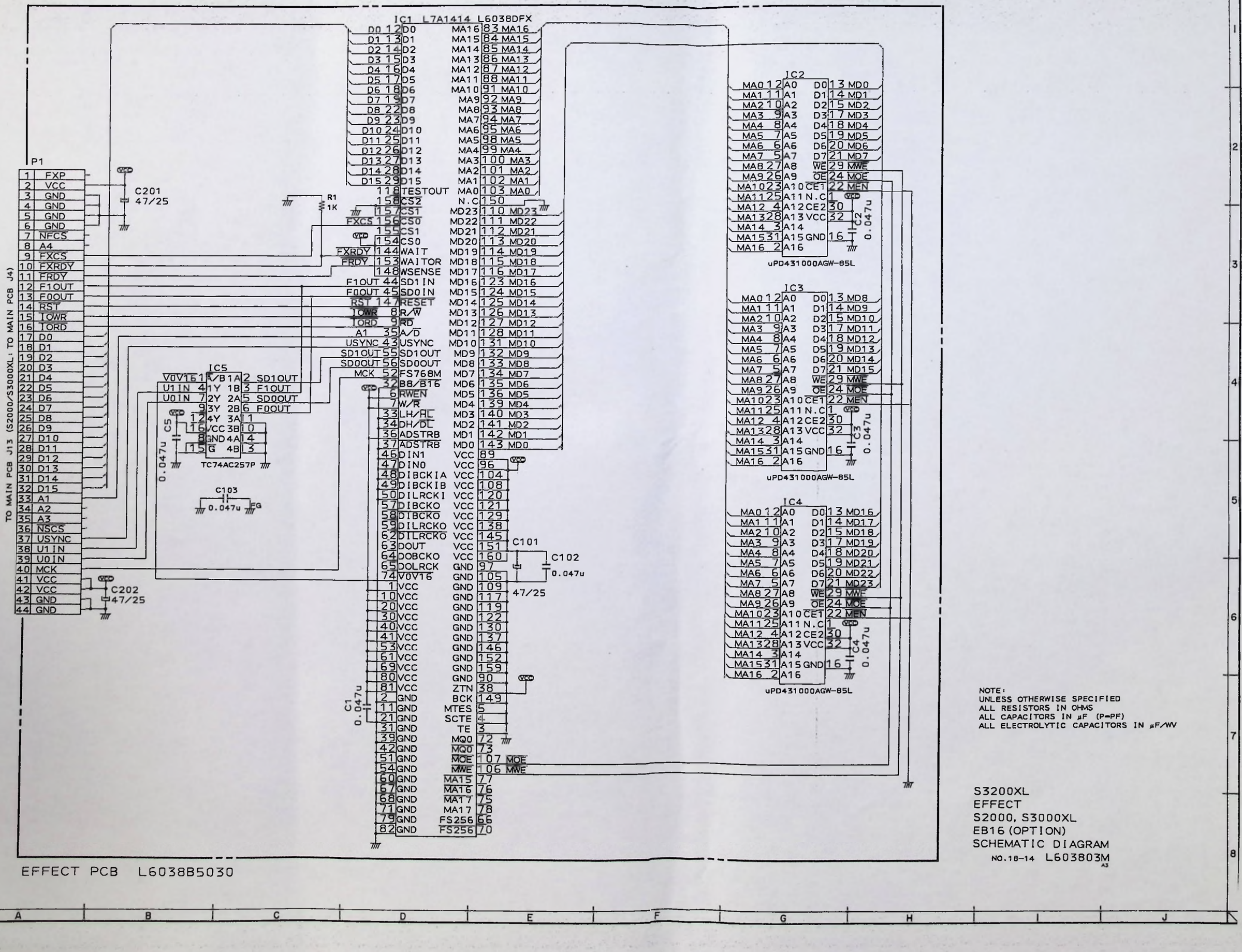


OUTPUT PCB L6028B5060

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV

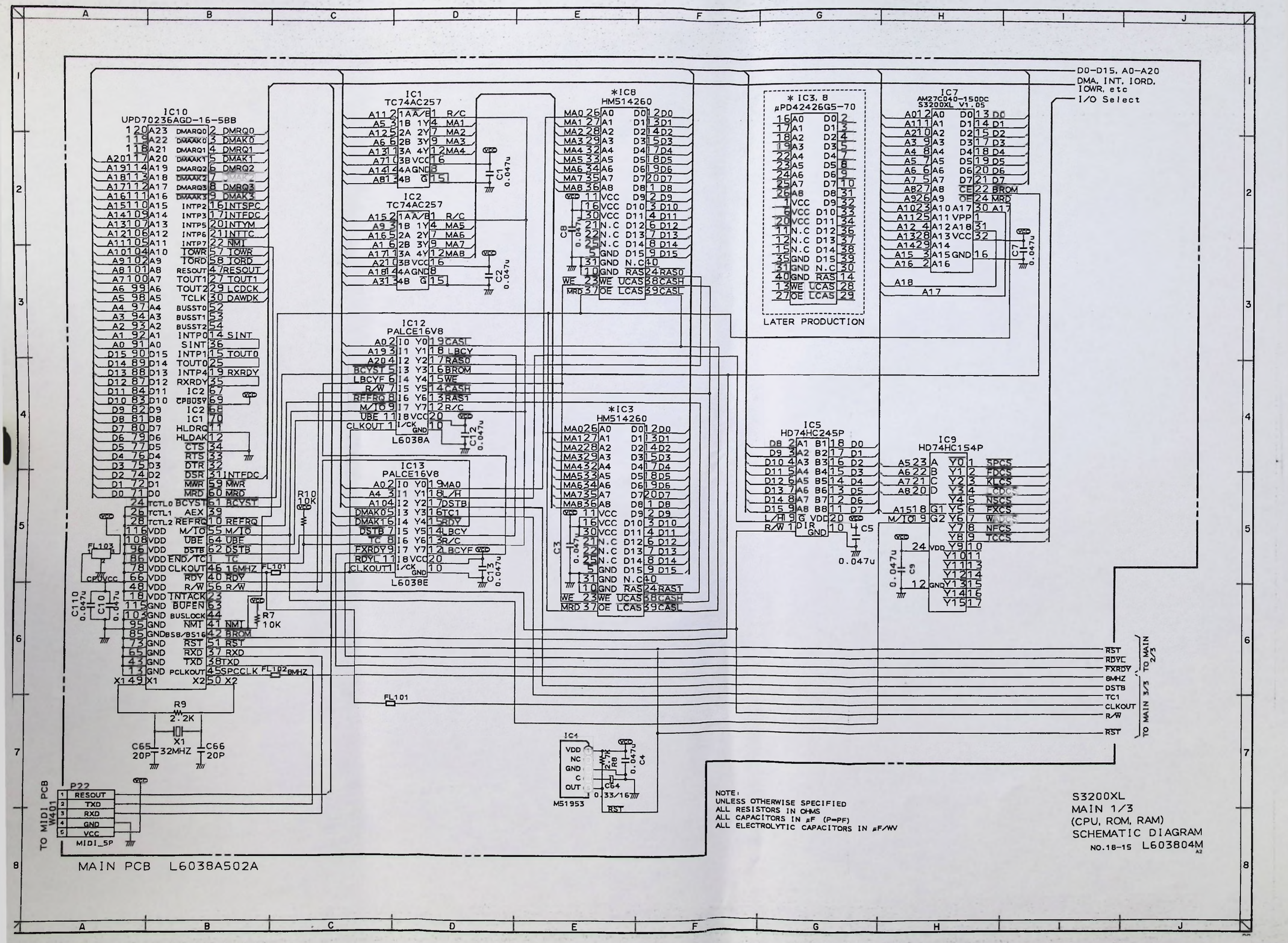
S3200XL
OUTPUT
SCHEMATIC DIAGRAM

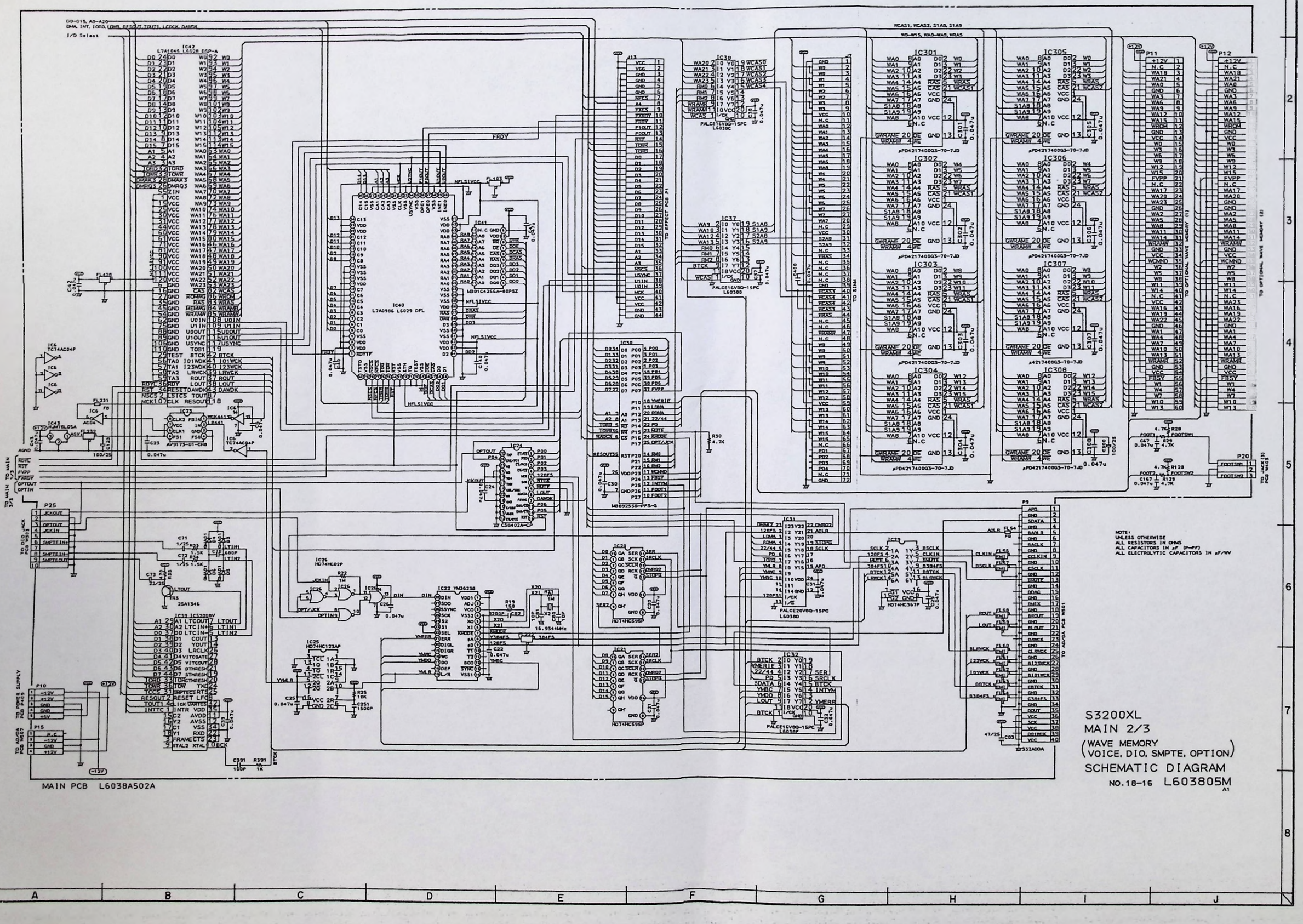
NO.18-13 L602803M A1

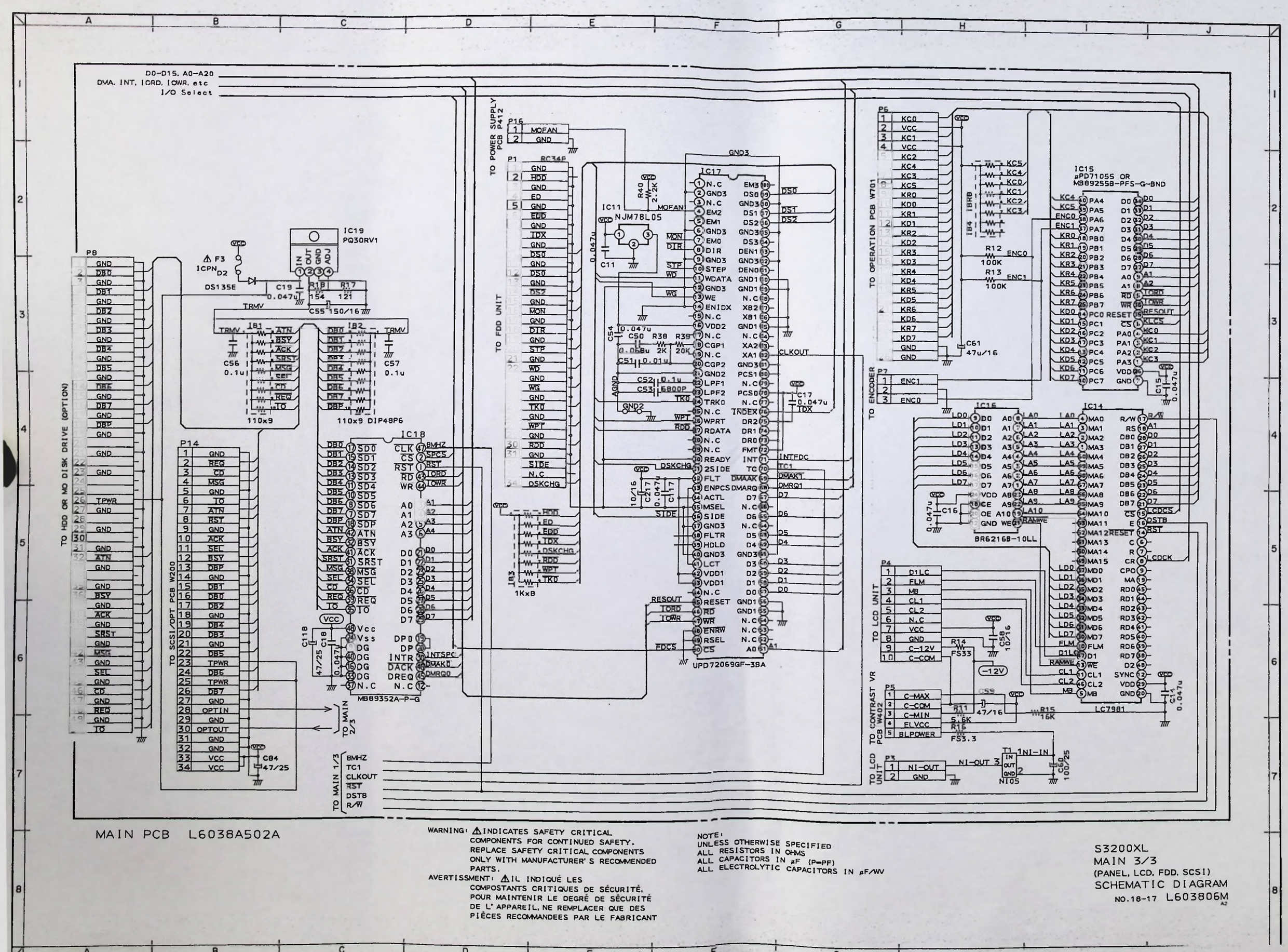


NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV

S3200XL
EFFECT
S2000, S3000XL
EB16 (OPTION)
SCHEMATIC DIAGRAM
NO.18-14 L603803M
A3


IC10
UPD70236AGD-16-5BB
IC1
TC74AC257
IC2
TC74AC257
IC12
PALCE16V8
L6038A
IC13
PALCE16V8
L6038E
*IC8
HM514260
*IC3
HM514260
* IC3, 8
μPD42426G5-70
LATER PRODUCTION
IC7
AM27C040-150DC
S3200XL V1.05
IC5
HD74HC245P
IC9
HD74HC154P
IC4
MS1953
D0-D15, A0-A20
DMA, INT, IORD,
IOWR, etc
I/O Select
FL101
FL102 8MHZ
FL103
X1
32MHZ
P22
TO MIDI PCB
W401
MIDI_5P
TO MAIN 2/3
TO MAIN 3/3
RST
RDYL
FXRDY
8MHZ
DSTB
TC1
CLKOUT
R/W
NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV
S3200XL
MAIN 1/3
(CPU, ROM, RAM)
SCHEMATIC DIAGRAM
NO.18-15 L603804M
A2
MAIN PCB L6038A502A


MAIN PCB L6038A502A
S3200XL
MAIN 2/3
(WAVE MEMORY
(VOICE, DIO, SMPTE, OPTION)
SCHEMATIC DIAGRAM
NO.18-16 L603805M
A1
NOTE:
UNLESS OTHERWISE
ALL RESISTORS IN OHMS
ALL CAPACITORS IN uF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN uF/WV
TO OPTIONAL WAVE MEMORY (1)
TO OPTIONAL WAVE MEMORY (2)
TO MAIN PCB W501
TO DIO JACK PCB W503
TO POWER SUPPLY PCB P400
TO AD/DA PCB W601
TO SIM
TO MAIN S/3
IC40 L7A0906 L6029 DFL
IC42 L7A1045 L6028 DSP-A
IC30 IC52008V
IC22 YM3623B
IC38
IC37
IC39
IC301
IC302
IC303
IC304
IC305
IC306
IC307
IC308
P11
P12
P9
P10
P15
P20
P25


D0-D15, A0-A20
DMA, INT, IORD, IOWR, etc
I/O Select
TO POWER SUPPLY PCB P412
TO FDD UNIT
TO OPERATION PCB W701
TO ENCODER
TO HDD OR MO DISK DRIVE (OPTION)
TO SCSI/OPT PCB W200
TO LCD UNIT
TO CONTRAST VR PCB W402
TO MAIN 2/3
TO MAIN 1/3
P8
P14
P16
P1
P6
P7
P4
P5
P3
IC11 NJM78L05
IC15 μPD71055 OR M5892558-PFS-G-BND
IC16 BR6216B-10LL
IC17 UPD72069GF-3BA
IC18 M5892352A-P-G
IC19 PQ30RV1
LC7981
NI05
MAIN PCB L6038A502A
WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.
AVERTISSMENT: ⚠IL INDIQUÉ LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L' APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT
NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV
S3200XL
MAIN 3/3
(PANEL, LCD, FDD, SCSI)
SCHEMATIC DIAGRAM
NO.18-17 L603806M
A2

PRINCIPAL PARTS LOCATION

ICs

IC1	D4	IC16	A5	IC37	B3	P7	D5
IC2	D,E4	IC17	A4	IC38	B2	P8	A1,2
IC3	E4	IC18	A1,2	IC39	A3	P9	E,F1
IC4	C5	IC19	B1	IC40	E3	P10	B4
IC5	E4	IC20	E4	IC41	E3	P11	C3
IC6	D3	IC21	E4	IC42	C,D3	P12	C3
IC7	D4	IC22	F3	IC43	C3	P14	A,B1
IC8	E4	IC23	D3	IC301	B1	P15	B4
IC9	C,D4	IC24	F4	IC302	B2	P16	A3
IC10	C,D5	IC25	F3	IC303	B3	P20	F5
IC11	A4	IC26	B2	IC304	B3	P22	B1
IC12	D,E4	IC29	E3	IC305	B2	P25	B2
IC13	D,E4,5	IC30	E,F5	IC306	B2		
IC14	B5	IC31	F3	IC307	B3		
IC15	E,F5	IC32	F4	IC308	B3		

TRANSISTOR

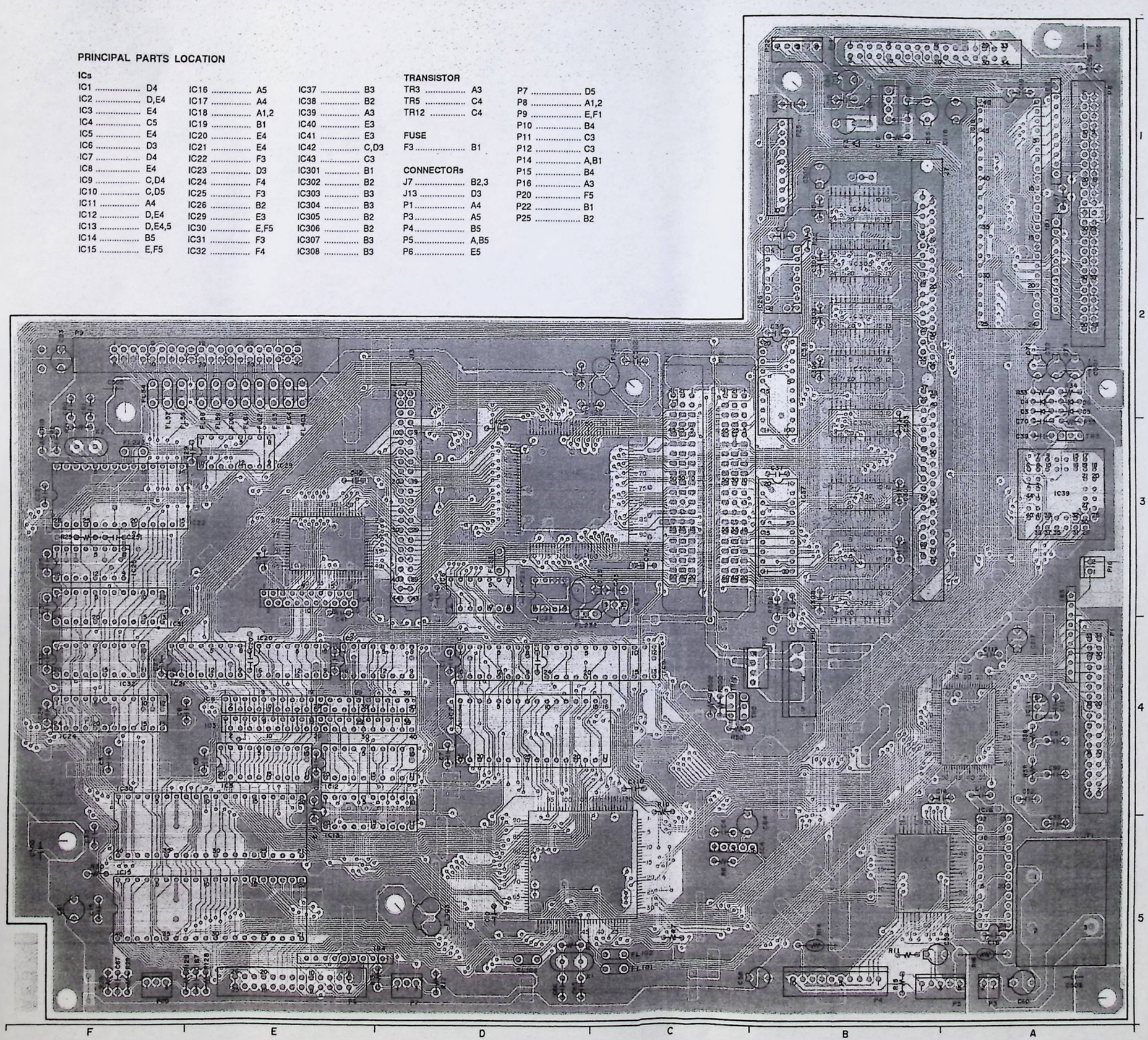
TR3	A3
TR5	C4
TR12	C4

FUSE

F3	B1

CONNECTORs

J7	B2,3
J13	D3
P1	A4
P3	A5
P4	B5
P5	A,B5
P6	E5



MAIN PCB L6038A502A

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

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.

PRINCIPAL PARTS LOCATION

ICs

IC1	D4	IC16	A5	IC37	B3	J7	B2,3
IC2	D,E4	IC17	A4	IC38	B2	J13	D3
IC3	D,E5	IC18	A1,2	IC39	A3	P1	A4
IC4	C5	IC19	B1	IC40	E3	P3	A5
IC5	E4	IC20	E4	IC41	E3	P4	B5
IC6	D3	IC21	E4	IC42	C,D3	P5	A,B5
IC7	D4	IC22	F3	IC43	C3	P6	E5
IC8	E5	IC23	D3	IC301	B1	P7	D5
IC9	C,D4	IC24	F4	IC302	B2	P8	A1,2
IC10	C,D5	IC25	F3	IC303	B3	P9	E,F1
IC11	A4	IC26	B2	IC304	B3	P10	B4
IC12	D,E4	IC29	E3	IC305	B2	P11	C3
IC13	D,E4	IC30	F4,5	IC306	B2	P12	C3
IC14	B5	IC31	F3	IC307	B3	P14	A,B1
IC15	F5	IC32	F4	IC308	B3	P15	B4

CONNECTORs

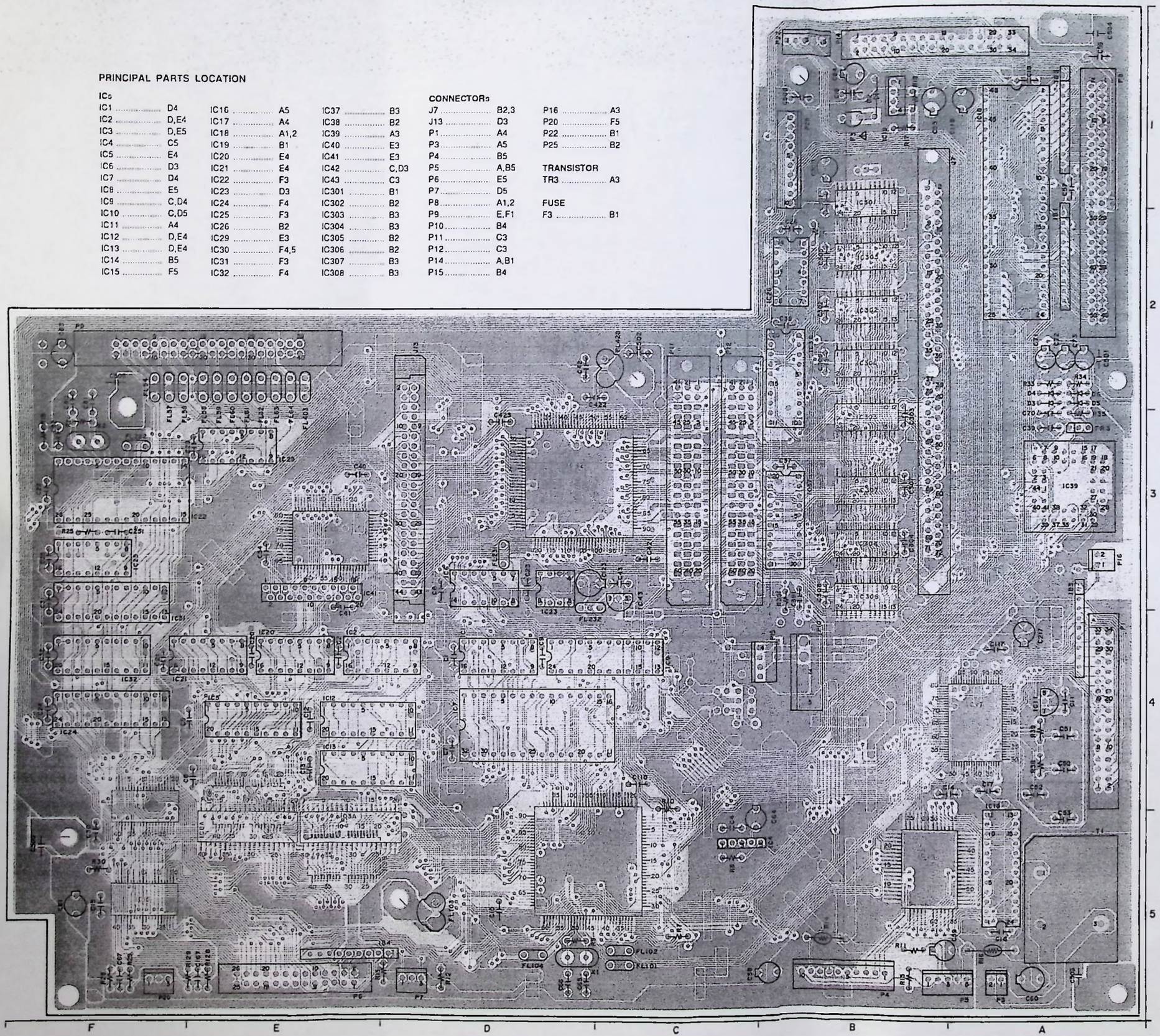
P16	A3
P20	F5
P22	B1
P25	B2

TRANSISTOR

TR3	A3

FUSE

F3	B1

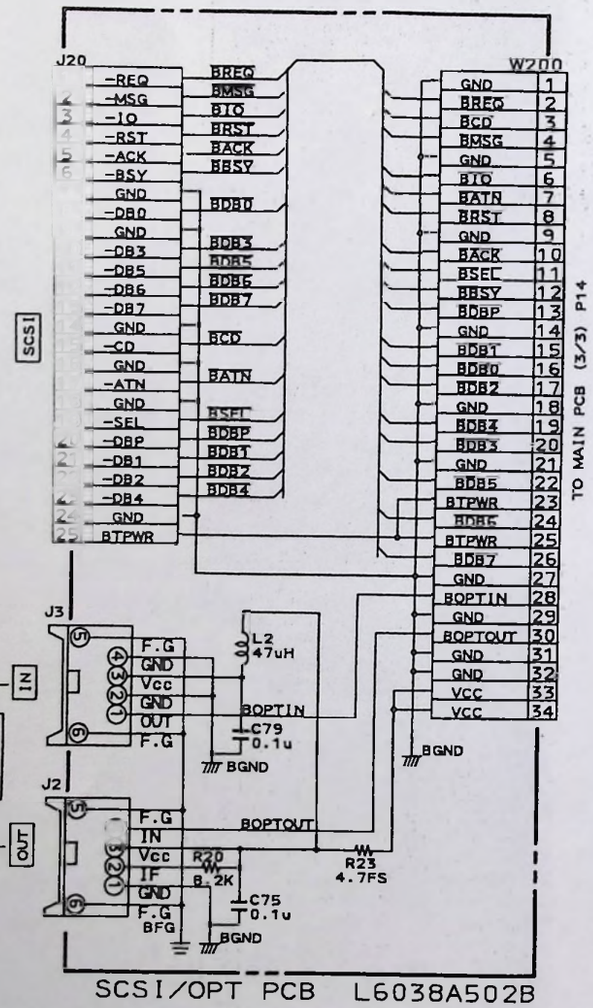


MAIN PCB L6038A502A(J1)

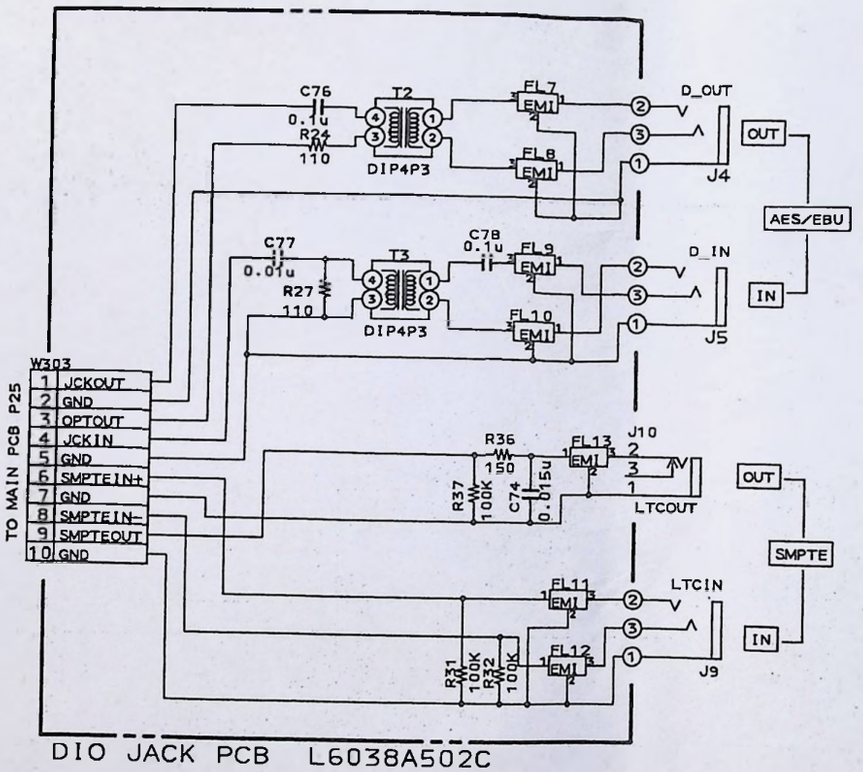
NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.

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

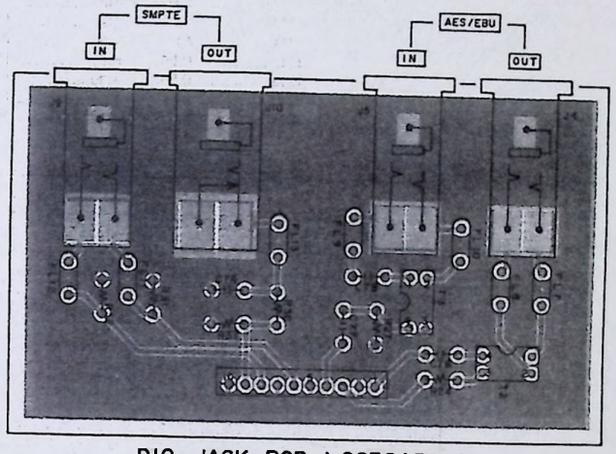
AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT



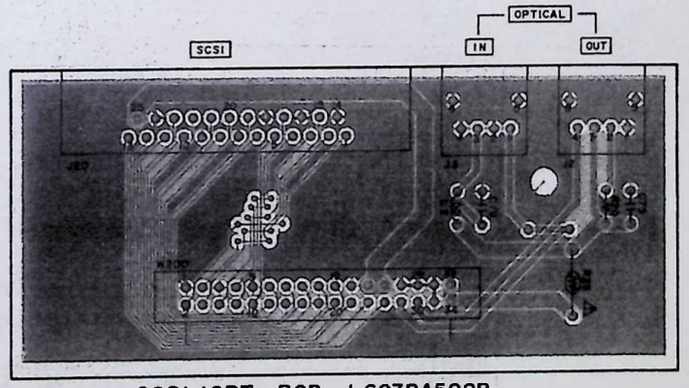
SCSI/OPT PCB L6038A502B



DIO JACK PCB L6038A502C



DIO JACK PCB L6038A502C



SCSI/OPT PCB L6038A502B

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

S3200XL
CONNECTOR & JACK
SCHEMATIC DIAGRAMS
NO.18-18 L603807M
A3