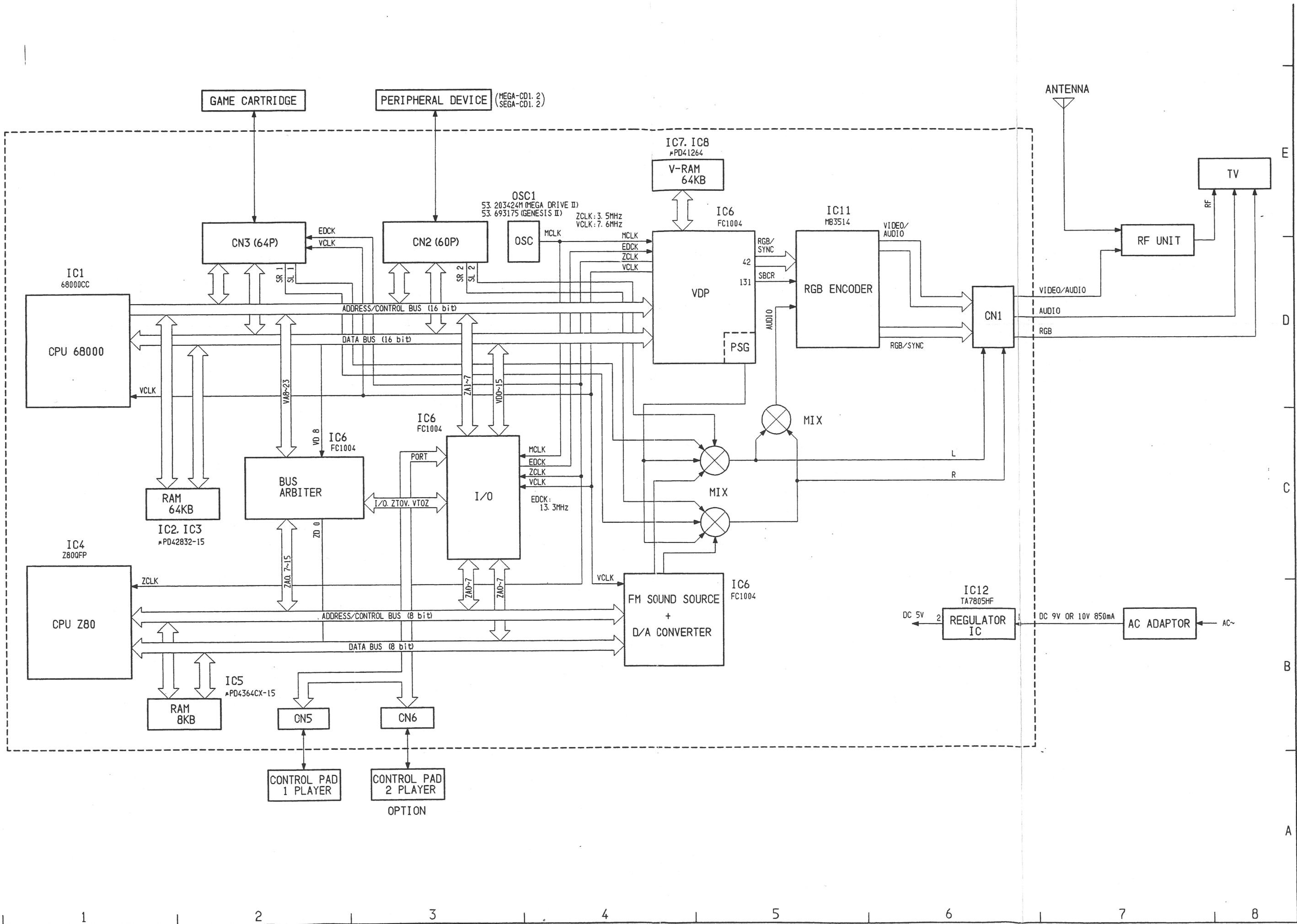
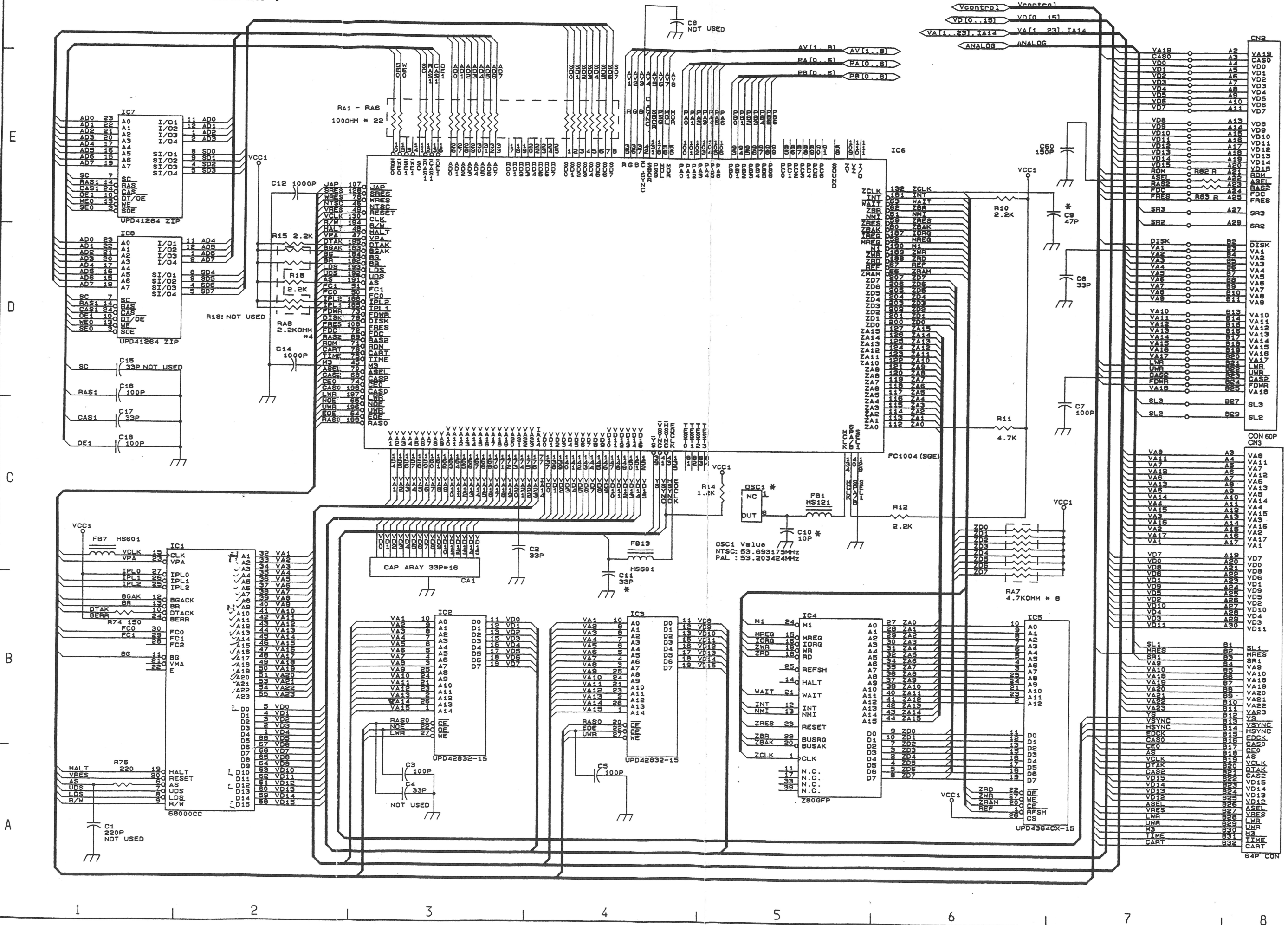


4. BLOCK DIAGRAM

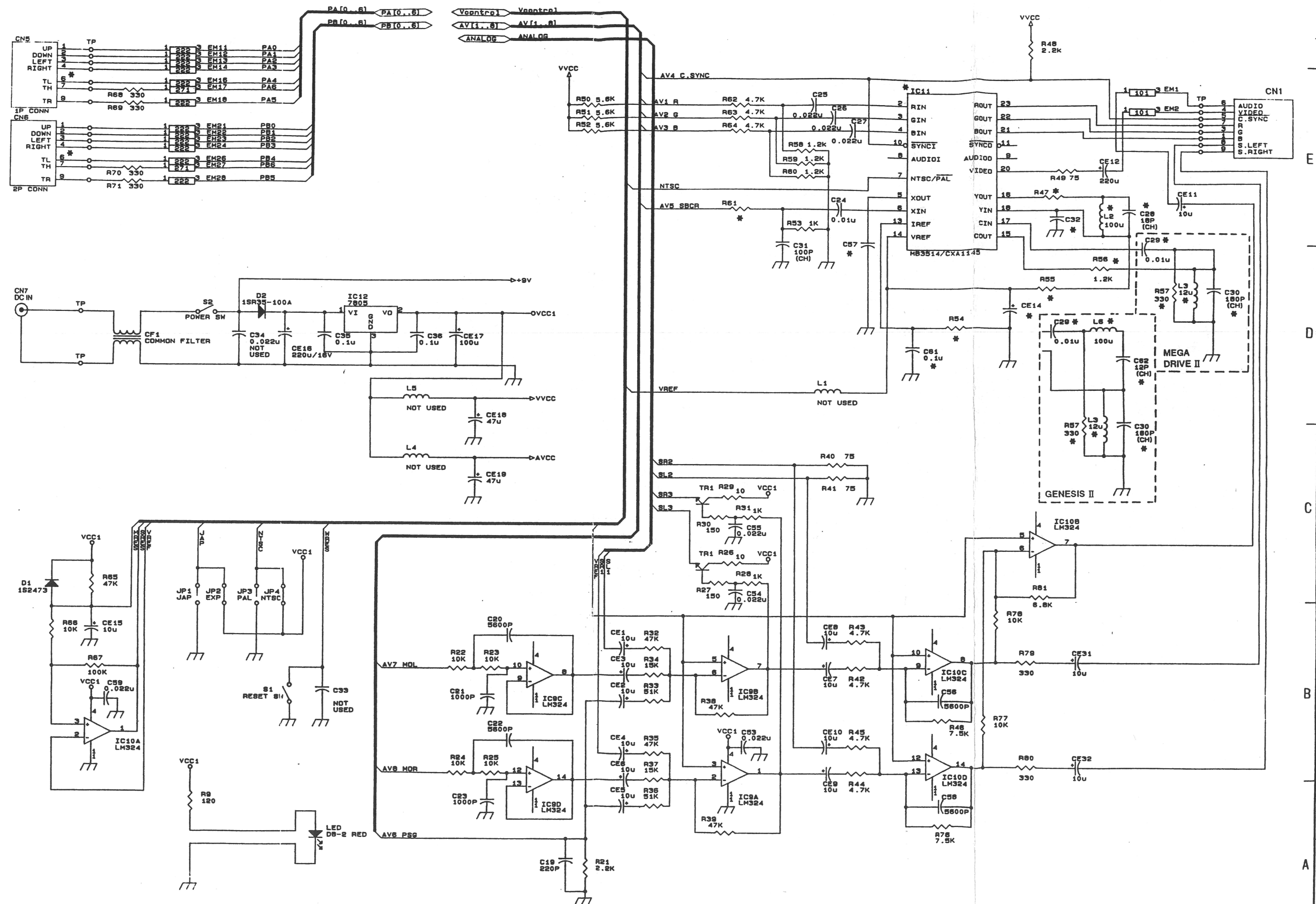


5. SCHEMATIC DIAGRAMS

5-1. SCHEMATIC DIAGRAM-1

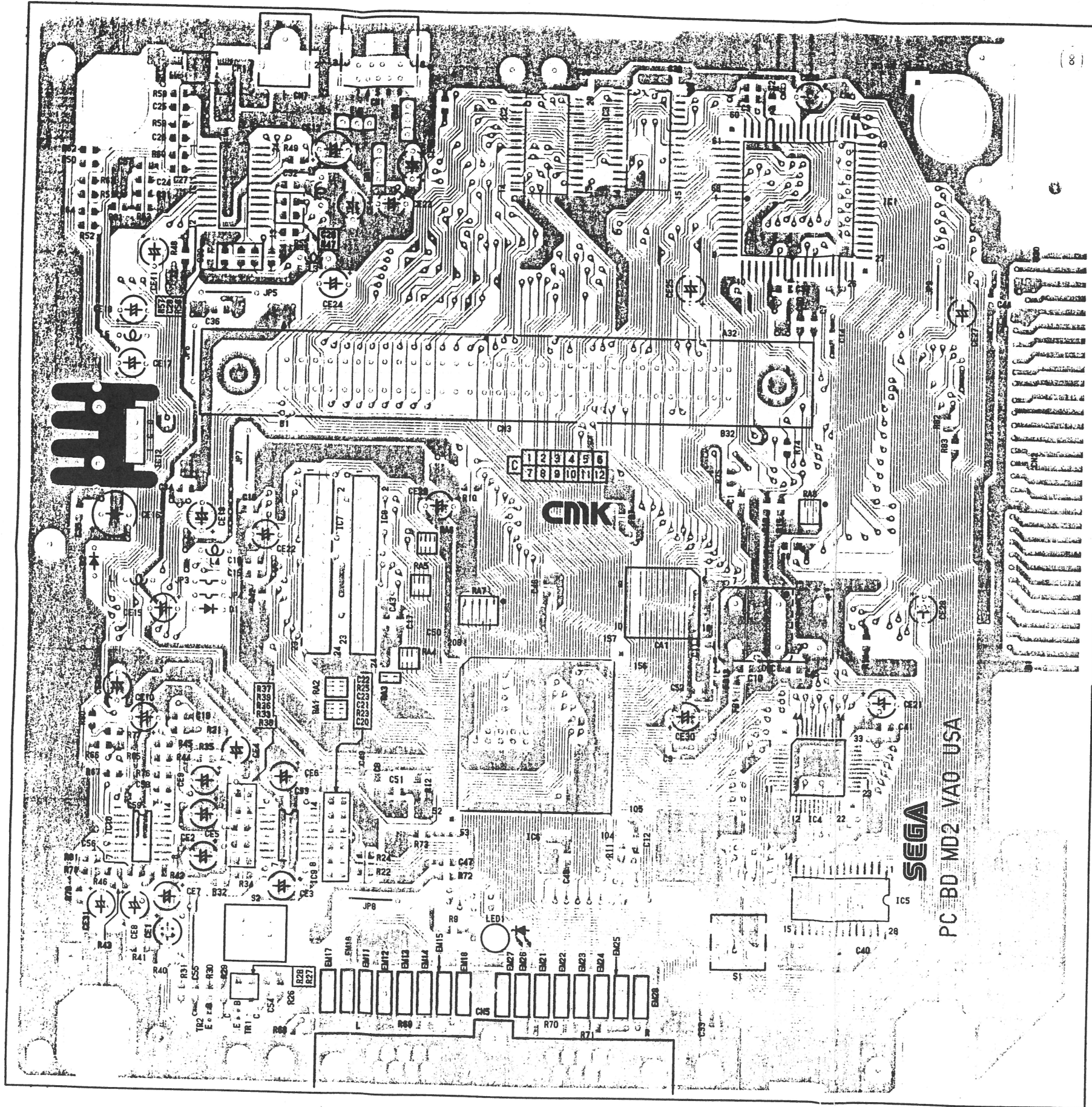


5-4. SCHEMATIC DIAGRAM-4



6. CIRCUIT BOARD DIAGRAMS

6-1. MAIN CIRCUIT BOARD (Top View) —For GENESIS II—



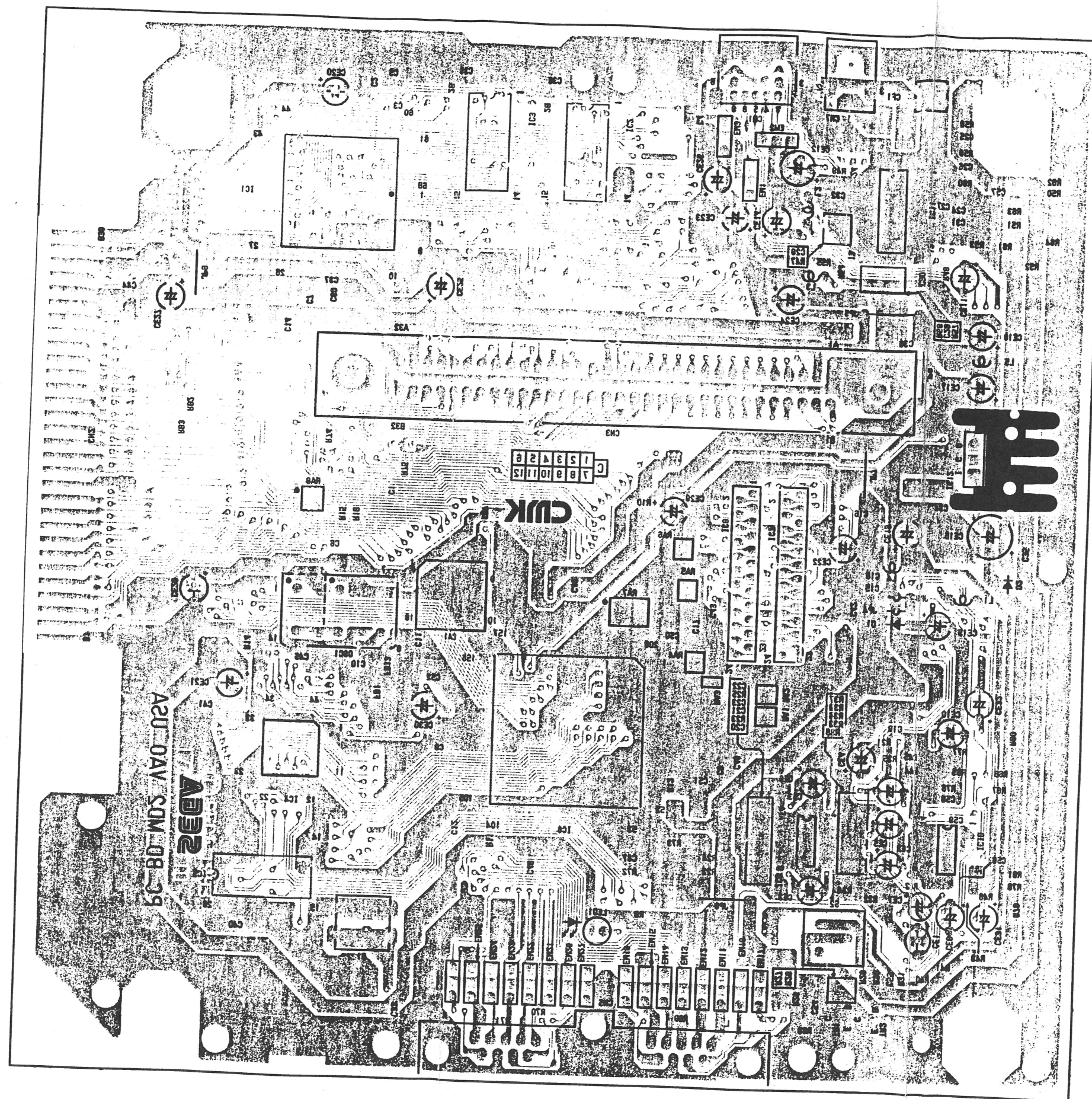
* DIFFERENCE TABLE

CIRCUIT No.	GENESIS II		
	TYPE-F	TYPE-S	TYPE-SM
L2	○	○	×
L3	○	○	×
L6	×	×	×
C9	×	×	×
C10	×	×	×
C11	×	×	×
C28	○	○	×
C29	○	○	×
C30	○	○	×
C32	○	○	×
C57	○	×	×
C61	×	×	×
C62	×	×	×
R47	○	○	×
R54	×	○	○
R55	○	○	×
R56	○	○	×
R57	○	○	×

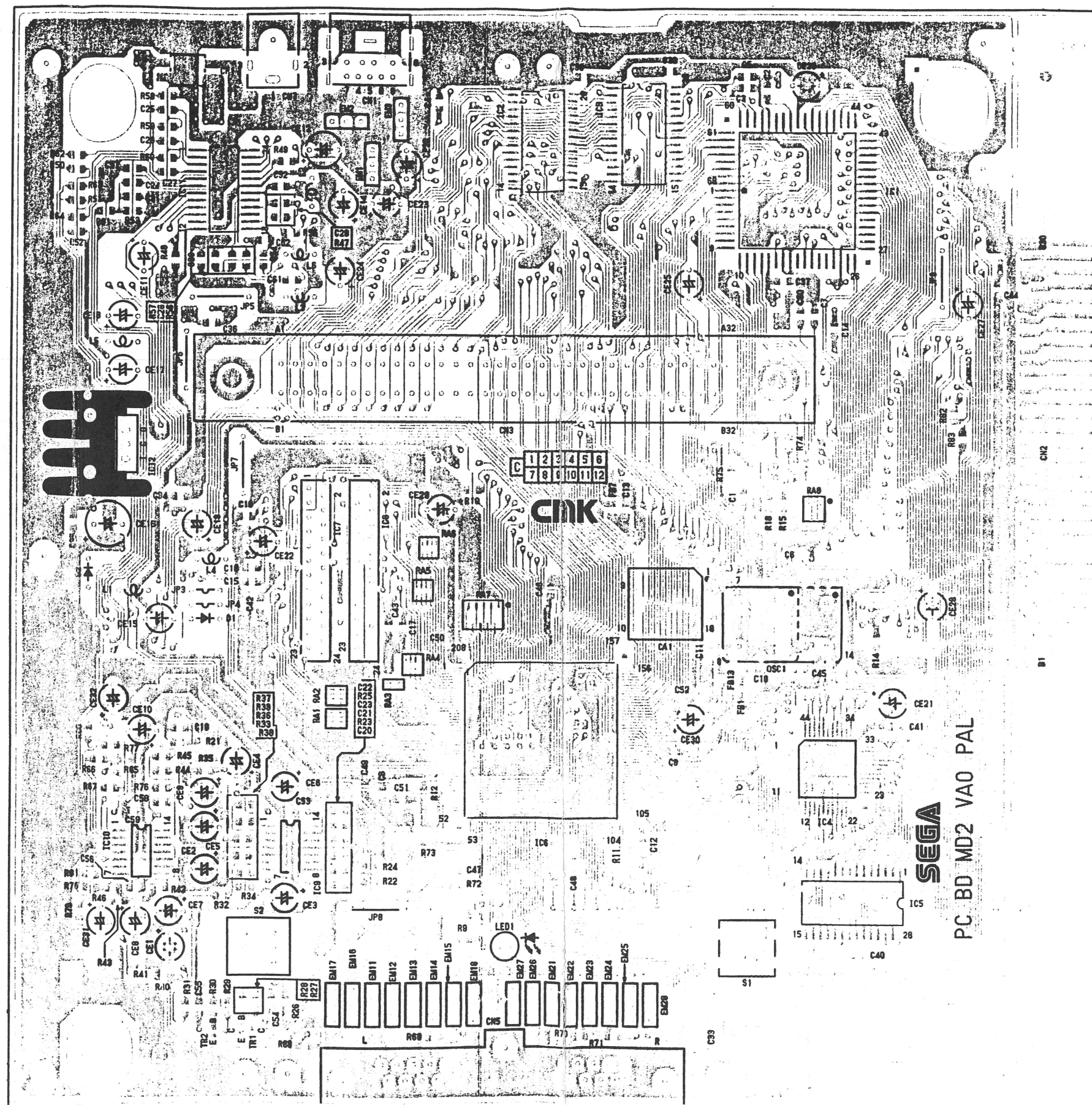
X : NOT MOUNTED

○ : MOUNTED

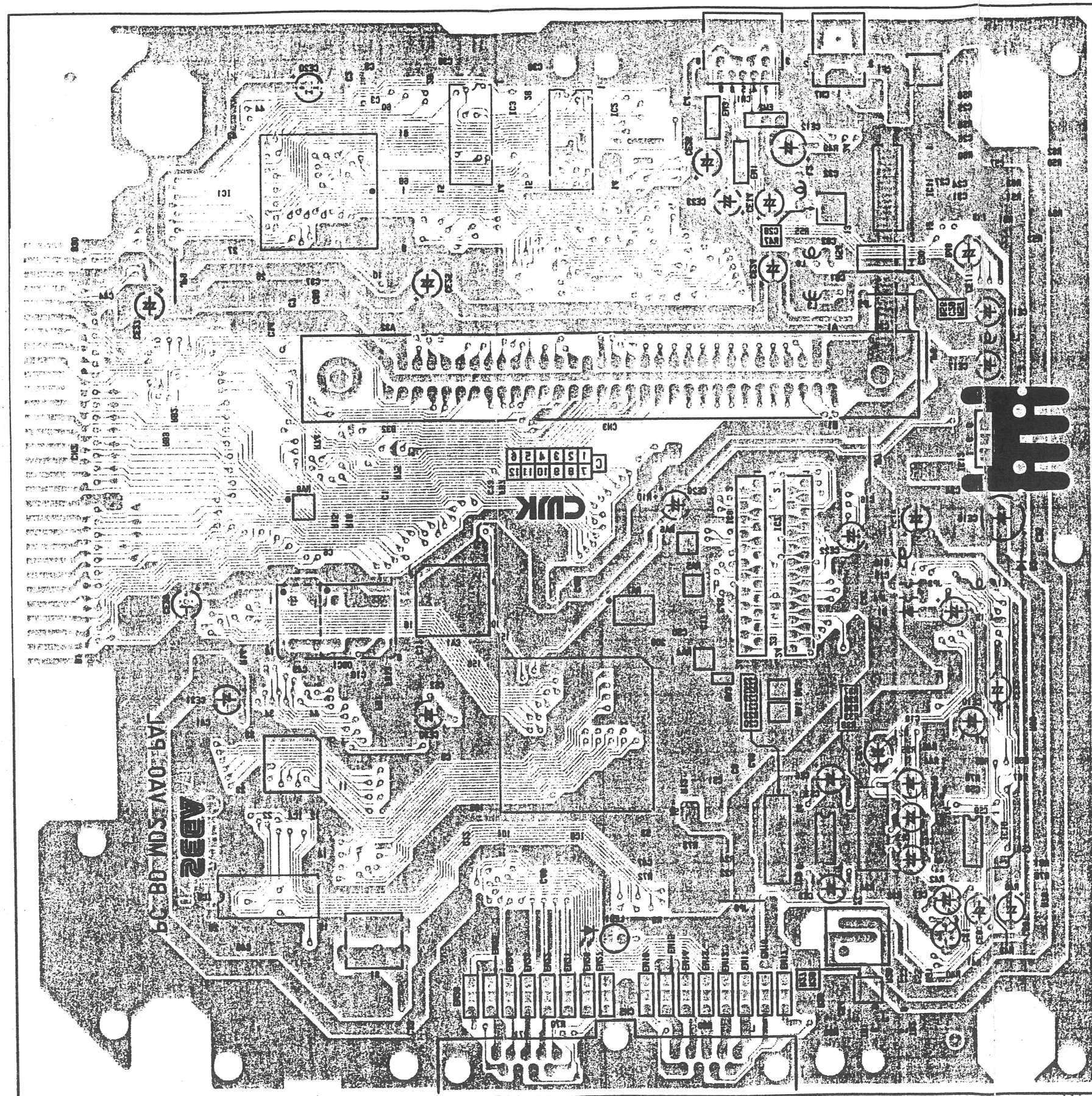
6-2. MAIN CIRCUIT BOARD (Bottom View) —For GENESIS II—



6-3. MAIN CIRCUIT BOARD (Top View) —For MEGA DRIVE II —



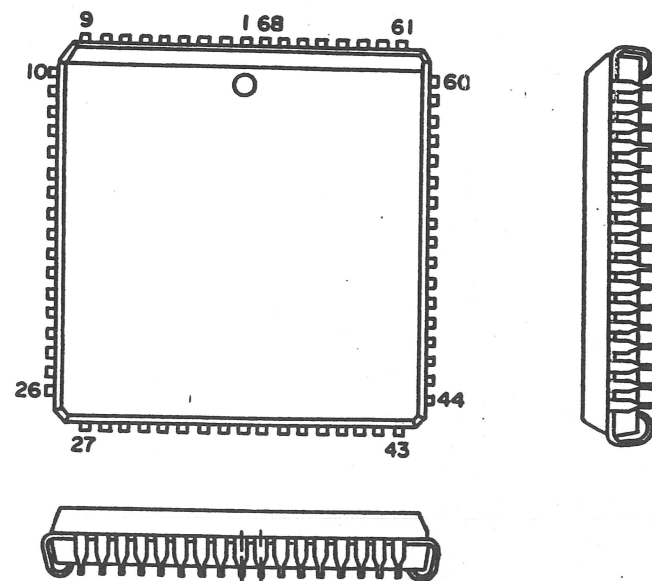
6-4. MAIN CIRCUIT BOARD (Bottom View) —For MEGA DRIVE II —



7. PARTS SPECIFICATION

IC1 IC HD68HC000CP8
Parts No. : 315-0685-A
■ Outside View

IC MC68HC000FN8
Parts No. : 315-0686-A



■ Description

Pin No.	Name	I/O	Function
1	N/C	—	N/C
2	\overline{DTACK}	I	Data Transfer Acknowledge.
3	\overline{BGACK}	I	Bus Grant Acknowledge.
4	\overline{BR}	I	Bus Request.
5	CLK	I	Clock.
6	\overline{HALT}	I/O	Halt.
7	VMA	O	Valid Memory Address.
8	E	O	Enable.
9	\overline{BERR}	I	Bus Error.
10	N/C	—	N/C
11	FC ₂	O	Function Code Output 2.
12	FC ₀	O	Function Code Output 0.
13	A ₁	O	Address Bus 1.
14	A ₃	O	Address Bus 3.
15	A ₄	O	Address Bus 4.
16	A ₆	O	Address Bus 6.
17	A ₇	O	Address Bus 7.
18	A ₉	O	Address Bus 9.
19	N/C	—	N/C
20	A ₁₄	O	Address Bus 14.

Pin No.	Name	I/O	Function
21	A ₁₆	O	Address Bus 16.
22	A ₁₇	O	Address Bus 17.
23	A ₁₉	O	Address Bus 19.
24	A ₂₀	O	Address Bus 20.
25	A ₂₁	O	Address Bus 21.
26	A ₂₂	O	Address Bus 22.
27	D ₁₅	I/O	Data bus 15.
28	D ₁₂	I/O	Data bus 12.
29	D ₁₀	I/O	Data bus 10.
30	D ₈	I/O	Data bus 8.
31	D ₇	I/O	Data bus 7.
32	D ₅	I/O	Data bus 5.
33	D ₄	I/O	Data bus 4.
34	D ₂	I/O	Data bus 2.
35	D ₁	I/O	Data bus 1.
36	\overline{AS}	O	Address Strobe.
37	\overline{LDS}	O	Lower Data Strobe.
38	\overline{BG}	O	Bus Grant.
39	V _{CC}	I	Power Input.
40	V _{SS}	I	GND.

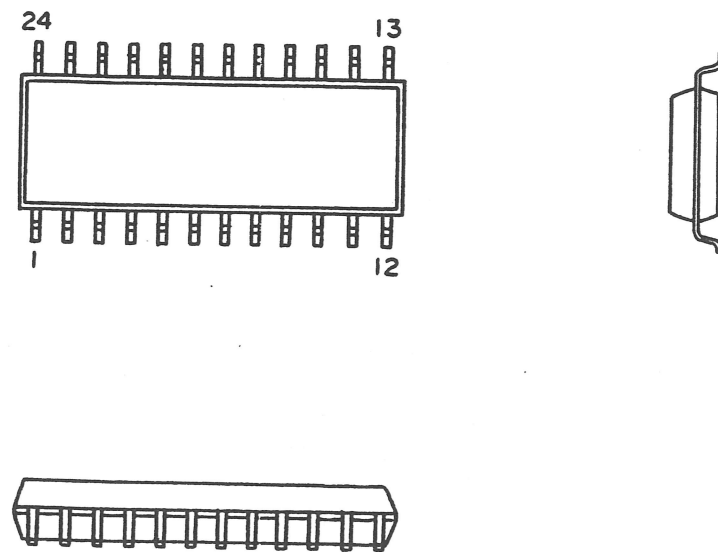
Pin No.	Name	I/O	Function
41	\overline{RES}	I/O	Reset
42	\overline{VPA}	I	Valid Peripheral Address.
43	\overline{IPL}_2	I	Interrupt Priority Level 2.
44	\overline{IPL}_0	I	Interrupt Priority Level 0.
45	FC ₁	O	Function Code Output 1.
46	N/C	—	N/C
47	A ₂	O	Address Bus 2.
48	A ₅	O	Address Bus 5.
49	A ₈	O	Address Bus 8.
50	A ₁₀	O	Address Bus 10.
51	A ₁₁	O	Address Bus 11.
52	A ₁₂	O	Address Bus 12.
53	A ₁₅	O	Address Bus 15.
54	A ₁₈	O	Address Bus 18.
55	V _{CC}	I	Power Input.
56	V _{SS}	I	GND.
57	A ₂₃	O	Address Bus 23.
58	D ₁₄	I/O	Data bus 14.
59	D ₁₁	I/O	Data bus 11.
60	D ₉	I/O	Data bus 9.
61	D ₆	I/O	Data bus 6.
62	D ₃	I/O	Data bus 3.
63	D ₀	I/O	Data bus 0.
64	\overline{UDS}	O	Upper Data Strobe.
65	R/ \overline{W}	O	Read/Write.
66	\overline{IPL}_1	I	Interrupt Priority Level 1.
67	A ₁₃	O	Address Bus 13.
68	D ₁₃	I/O	Data Bus 13.

IC11 IC MB3514PF-G-BND-EF
Parts No. : 313-5232-A

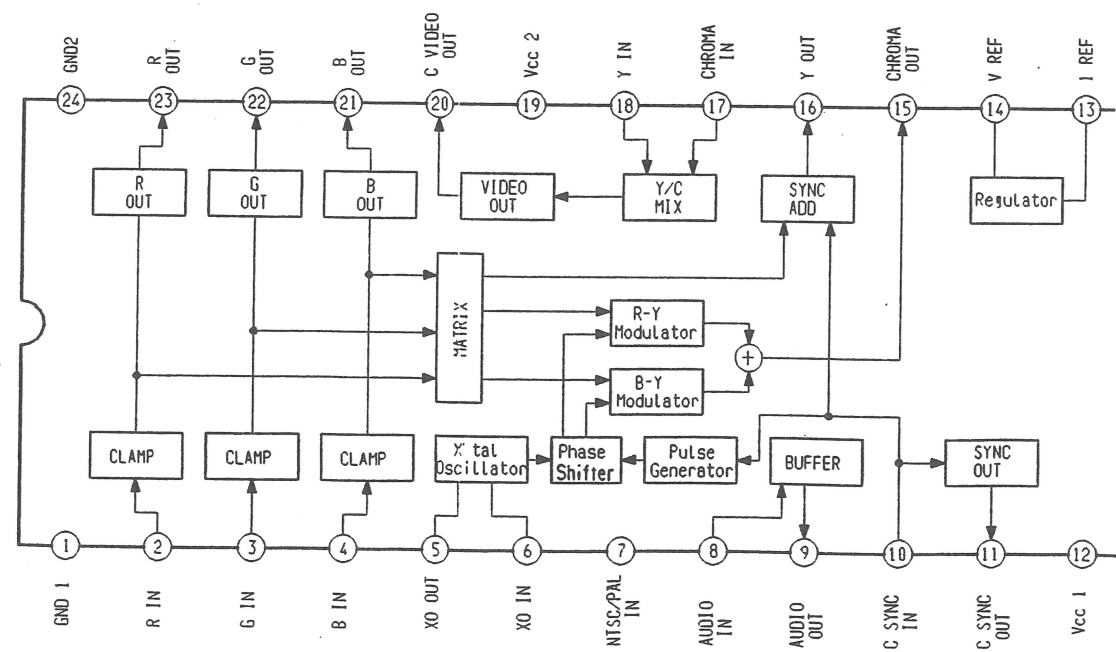
IC CXA1145M-T6
Parts No. : 313-5213-A

IC KA2195D
Parts No. : 313-5236-A

■ Outside View



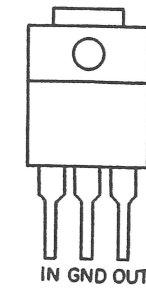
■ Pin Layout



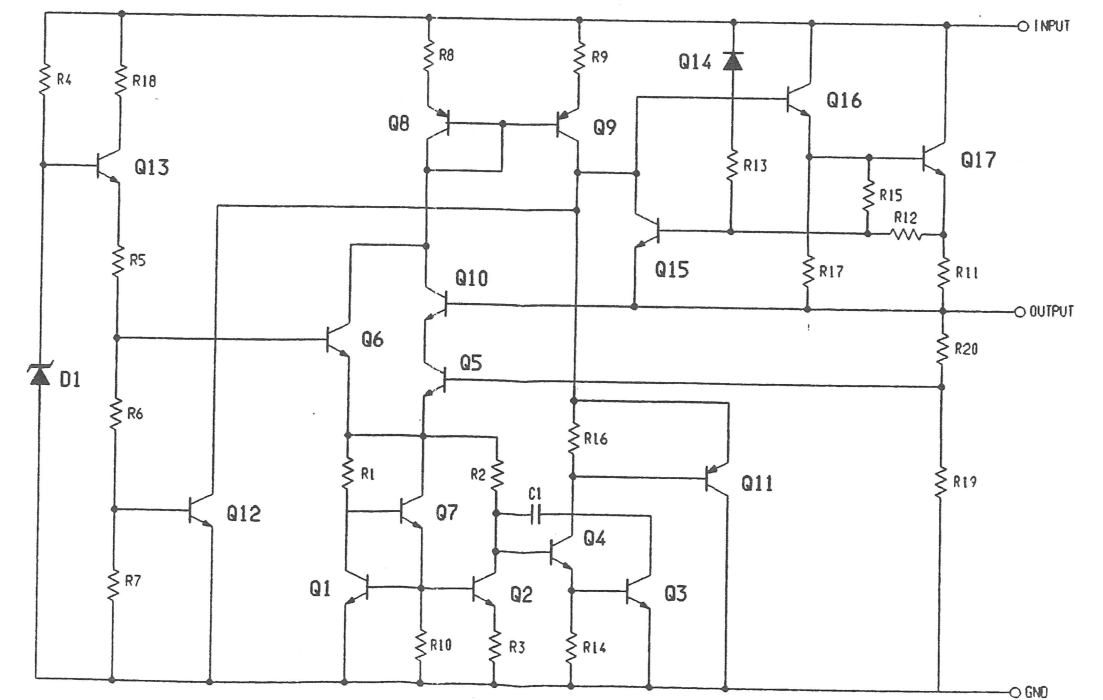
IC12 IC UPC7805HF
Parts No. : 313-5214

IC TA7805S
Parts No. : 313-5230

■ Outside View

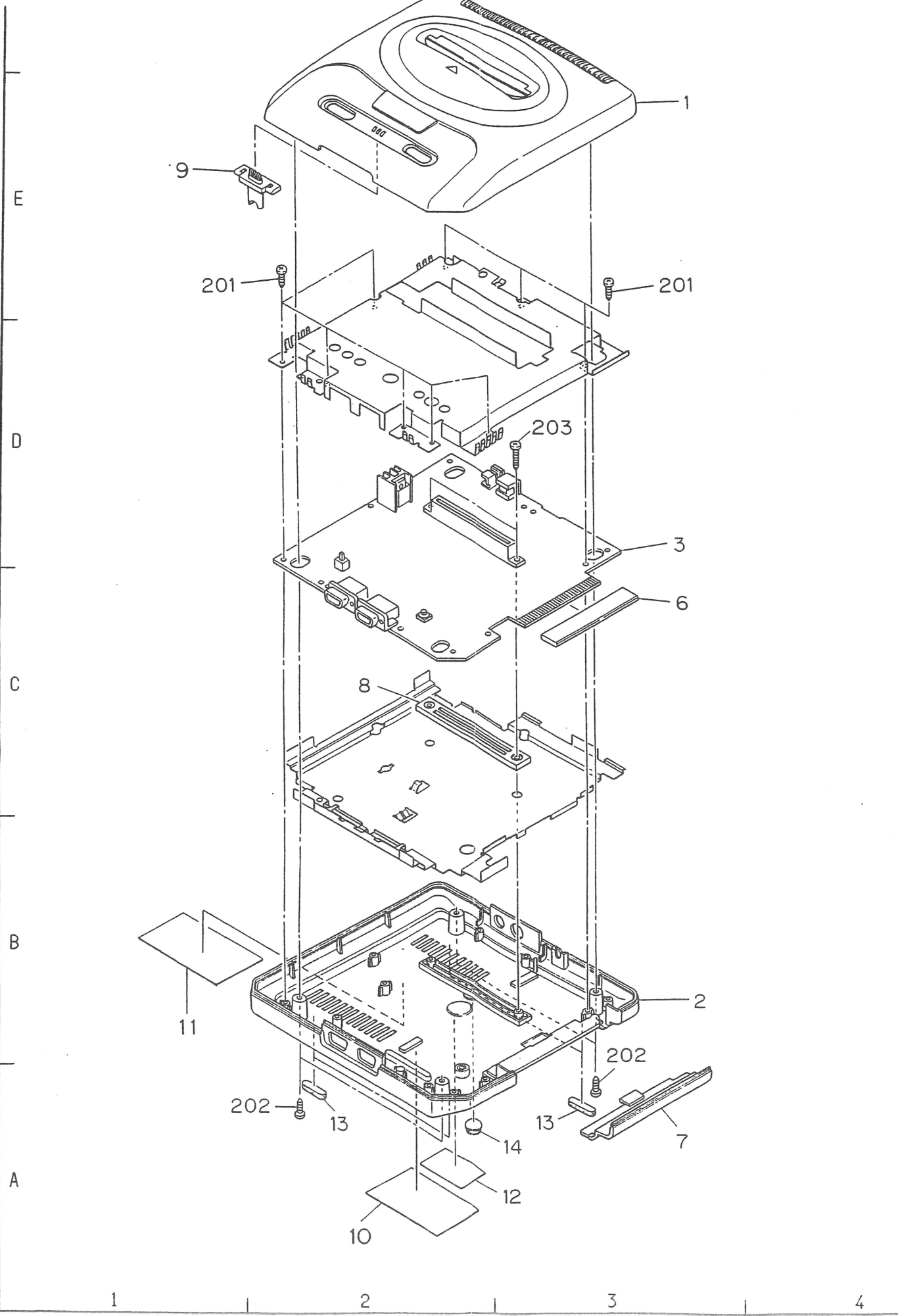


■ Equivalent Block Diagram



8. EXPLODED VIEW & PARTS LIST

8-1. EXPLODED VIEW



8-2. MECHANICAL PARTS LIST

Notes: NTSC → GENESIS II
PAL, RGB → MEGA DRIVE II

Ref. No.	Parts No.	Description	Q'TY	Remarks
1	610-5479	ASSY TOP CASE GENESIS2 USA	1	NTSC
1	610-5480	ASSY TOP CASE MD2 EUR	1	PAL,RGB
2	253-6592	BOTTOM CASE MD2 EXPORT	1	
3	837-9602-S	IC BD MD2 VA0S USA (CBA)	1	NTSC-S
3	837-9602-F	IC BD MD2 VA0F USA (CBA)	1	NTSC-F
3	837-9602-SM	IC BD MD2 VA0SM USA (CBA)	1	NTSC-SM
3	837-9603	IC BD MD2 VA0 EUR (CBA)	1	PAL,RGB
6	253-6298	60P CARD EDGE COVER	1	
7	253-6504	LID MD2	1	
8	253-6599	64P COVER MD2 EXPORT	1	
9	253-6598	LED LENS MD2 EXPORT	1	
10	670-0248	SEAL CUSTOMER SERVICE	1	NTSC
11	670-3128	LABEL FCC & SMITH MK-1630 USA	1	NTSC
12	670-3129	LABEL SER. NO. MK-1630 USA	1	NTSC
12	670-3130	LABEL SER NO. MD2 MULTI	1	PAL,RGB
13	601-6973	RUBBER FOOT MD2	4	
14	601-6974	RUBBER FOOT SJ-5012 BLACK	1	
201	012-P00308	TAP SCR PH 3 × 8	9	
202	012-P00310	TAP SCR PH 3 × 10	4	
203	012-P00316-0B	TAP SCR PH BLK 3 × 16	2	