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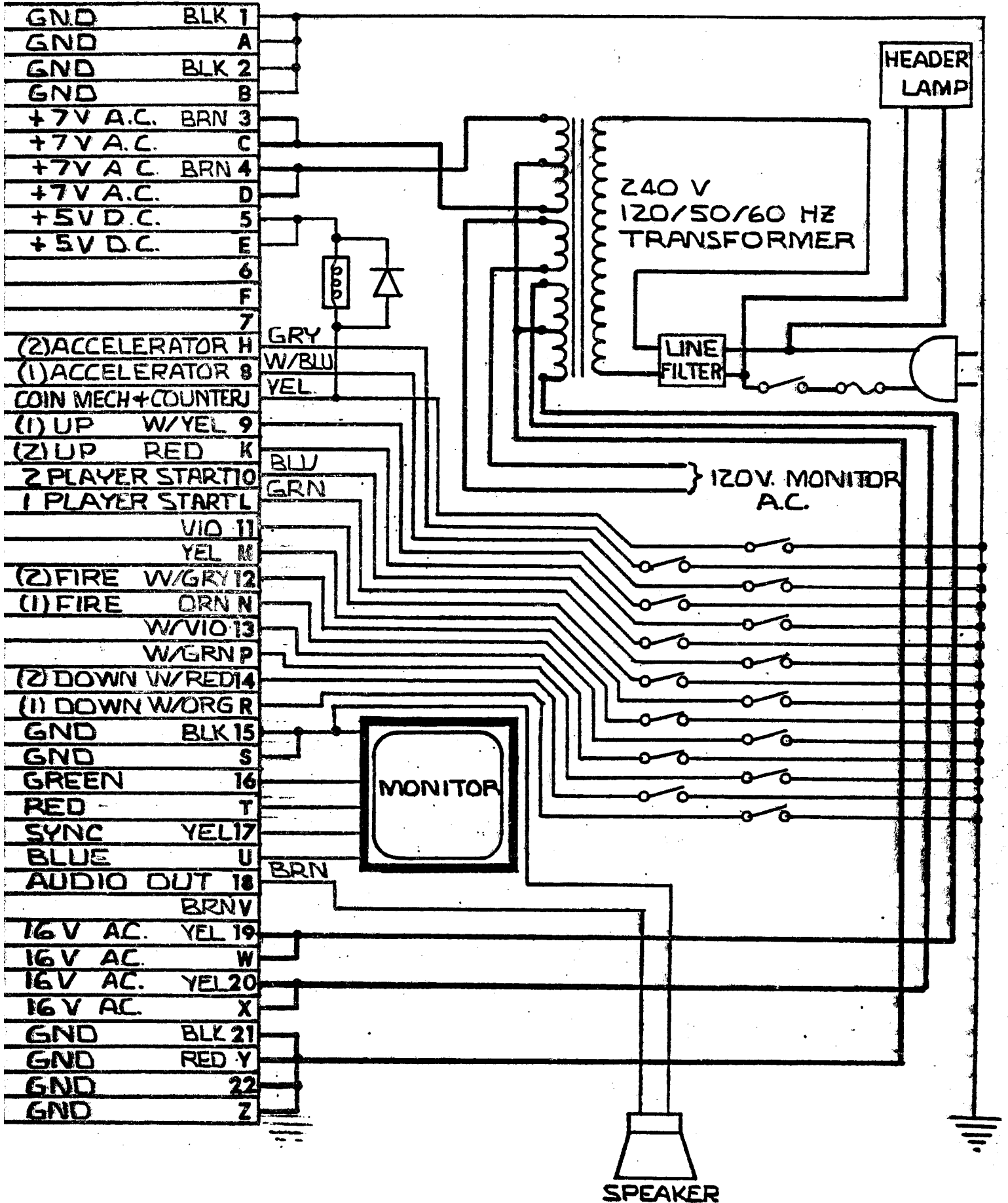


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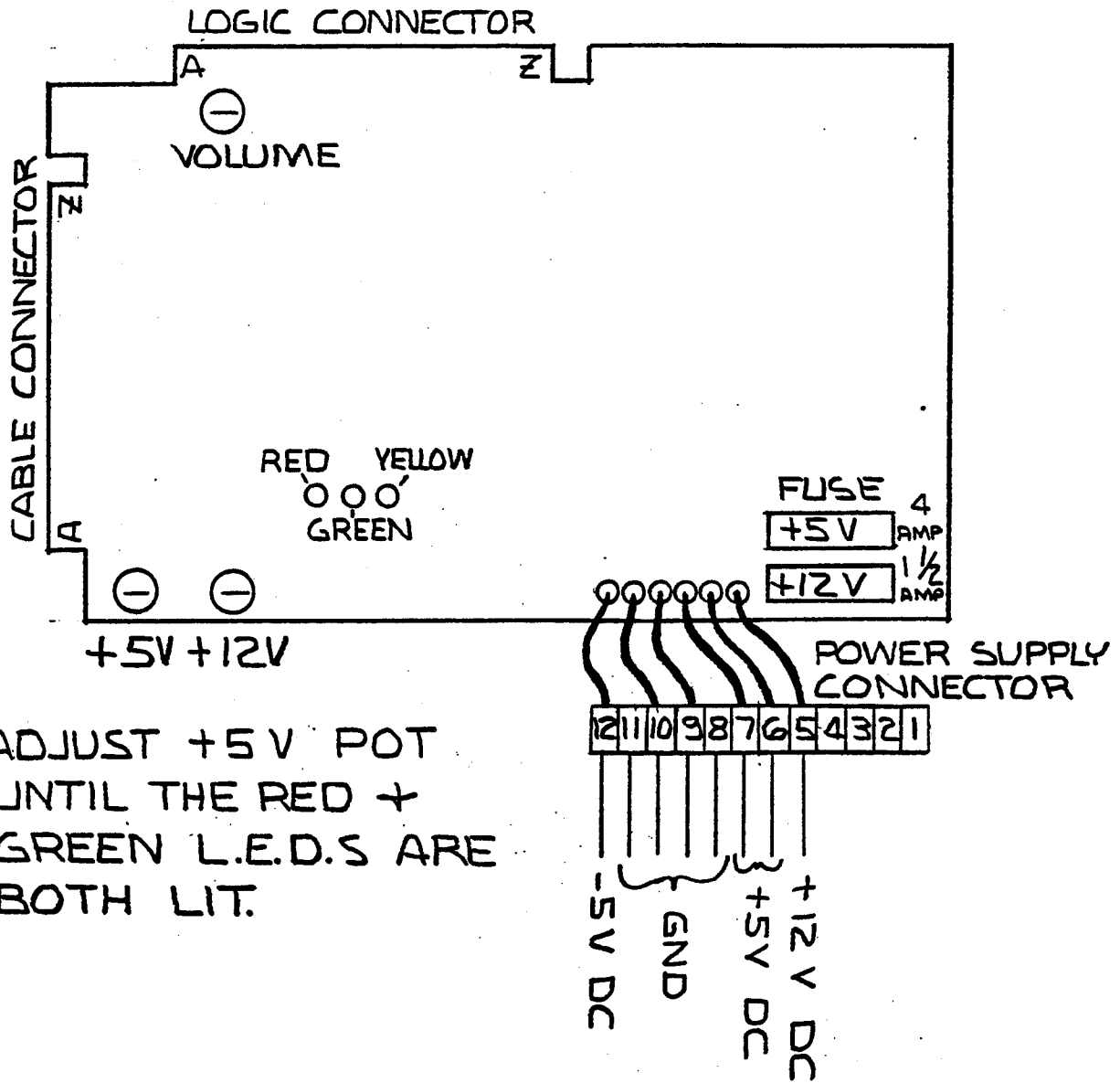


FLIPPERSPILL.COM

LOOPING WIRING DIAGRAM



LOOPING POWER SUPPLY ADJUSTMENTS



ADJUST +5V POT
UNTIL THE RED +
GREEN L.E.D.S ARE
BOTH LIT.

LOGIC BOARD CONNECTIONS

Components Side

Solder Side

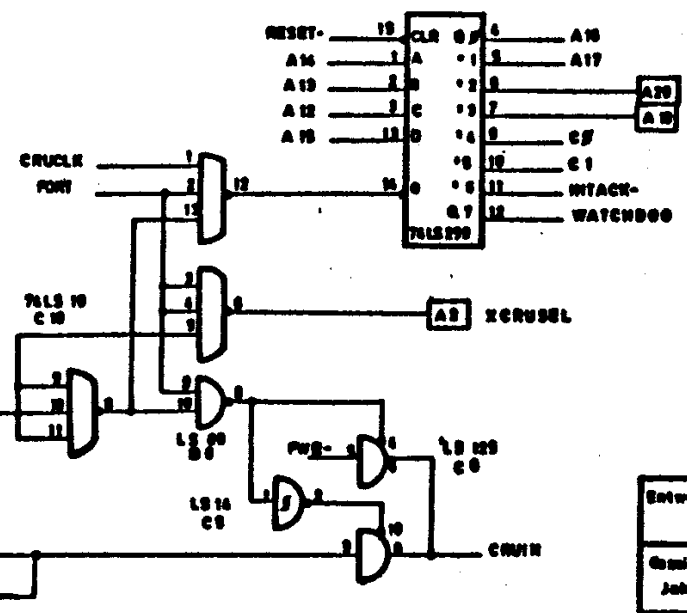
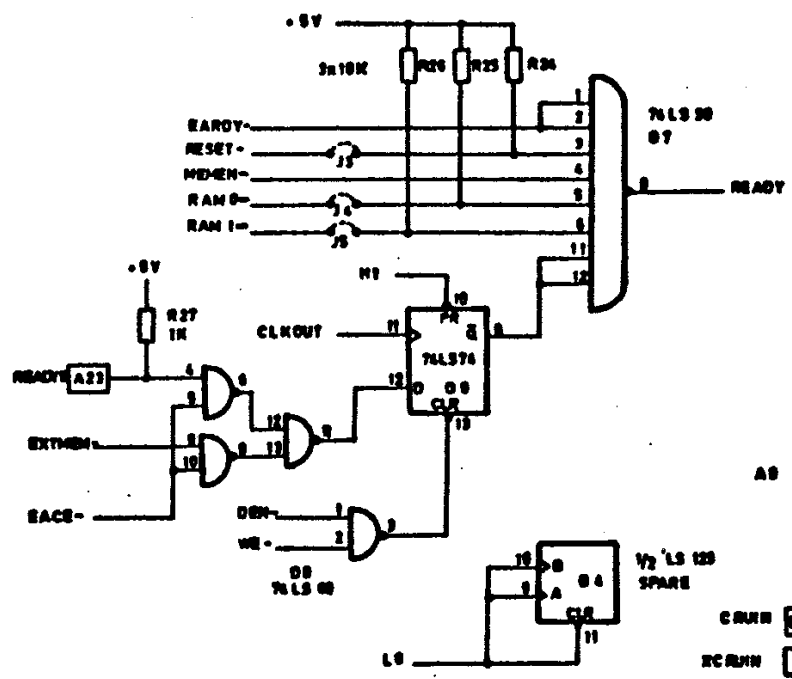
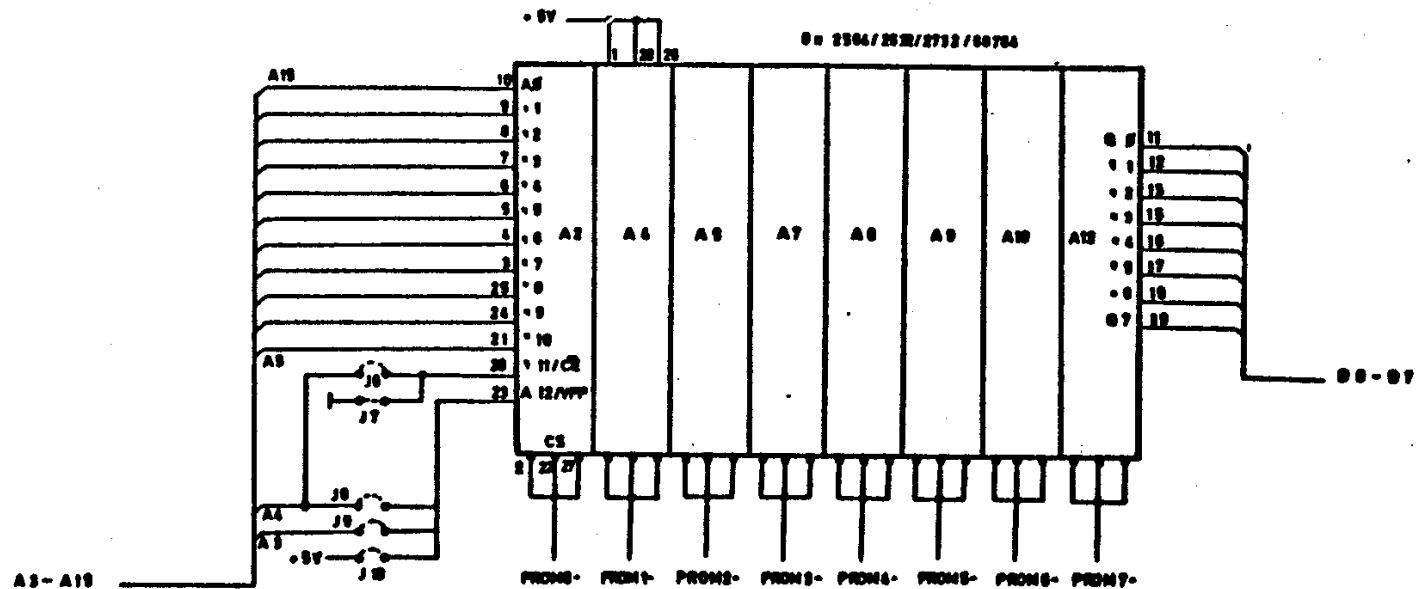
1 Red
 2 Sync.
 3 Pot 1
 4 GND Pot - Video GND
 5 1 Player Fast
 6 Coin (programmable)
 7 One Player
 8 1 Player Up
 9
 10 2 Player Fast
 11
 12 2 Player Down
 13
 14
 15
 16
 17 GND
 18
 19
 20 GND
 21
 22

1 Green
 2 Blue
 3 Pot 2
 4 Audio 1
 5 Two Player
 6 Coin 1/1
 7 1 Player Fire
 8 1 Player Down
 9
 10
 11 2 Player Fire
 12 2 Player Up
 13
 14
 15
 16
 17 GND
 18 GND
 19
 20 Audio 2
 21
 22

SWITCH SETTINGS

Coin 1 Coin 2

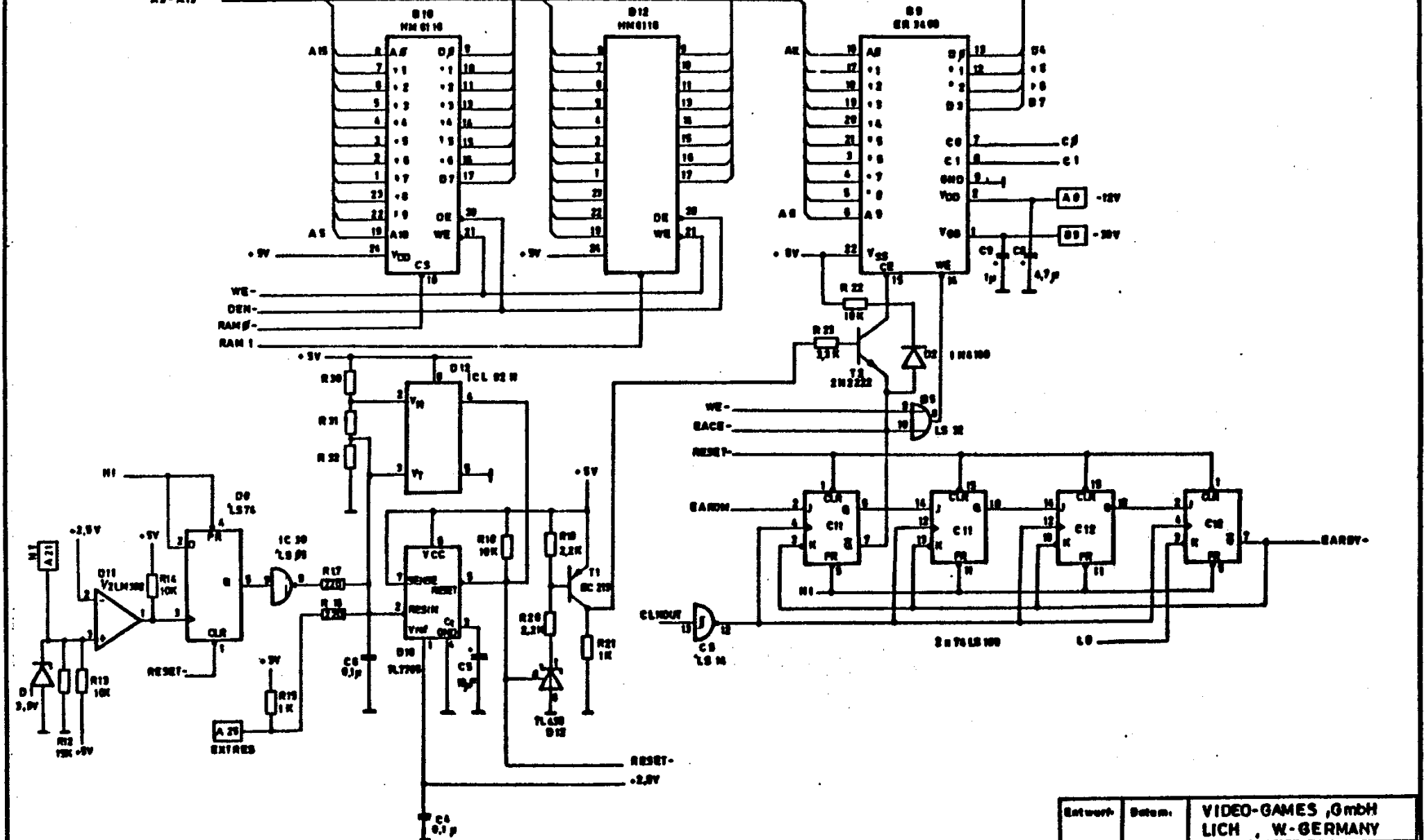
1	2	3	4	5	6	7	8	Functions
							OFF	1 Credit/Coin
							ON	2 Coins/Credit
				OFF	OFF	OFF		7 Credits/Coin
				OFF	OFF	ON		6 Credits/Coin
				OFF	ON	OFF		5 Credits/Coin
				OFF	ON	ON		4 Credits/Coin
				ON	OFF	OFF		3 Credits/Coin
				ON	OFF	ON		2 Credits/Coin
				ON	ON	OFF		1 Credit/Coin
				ON	ON	ON		10 Credits/Coin
		OFF						5 Jets/PLayer
		ON						3 Jets/Player



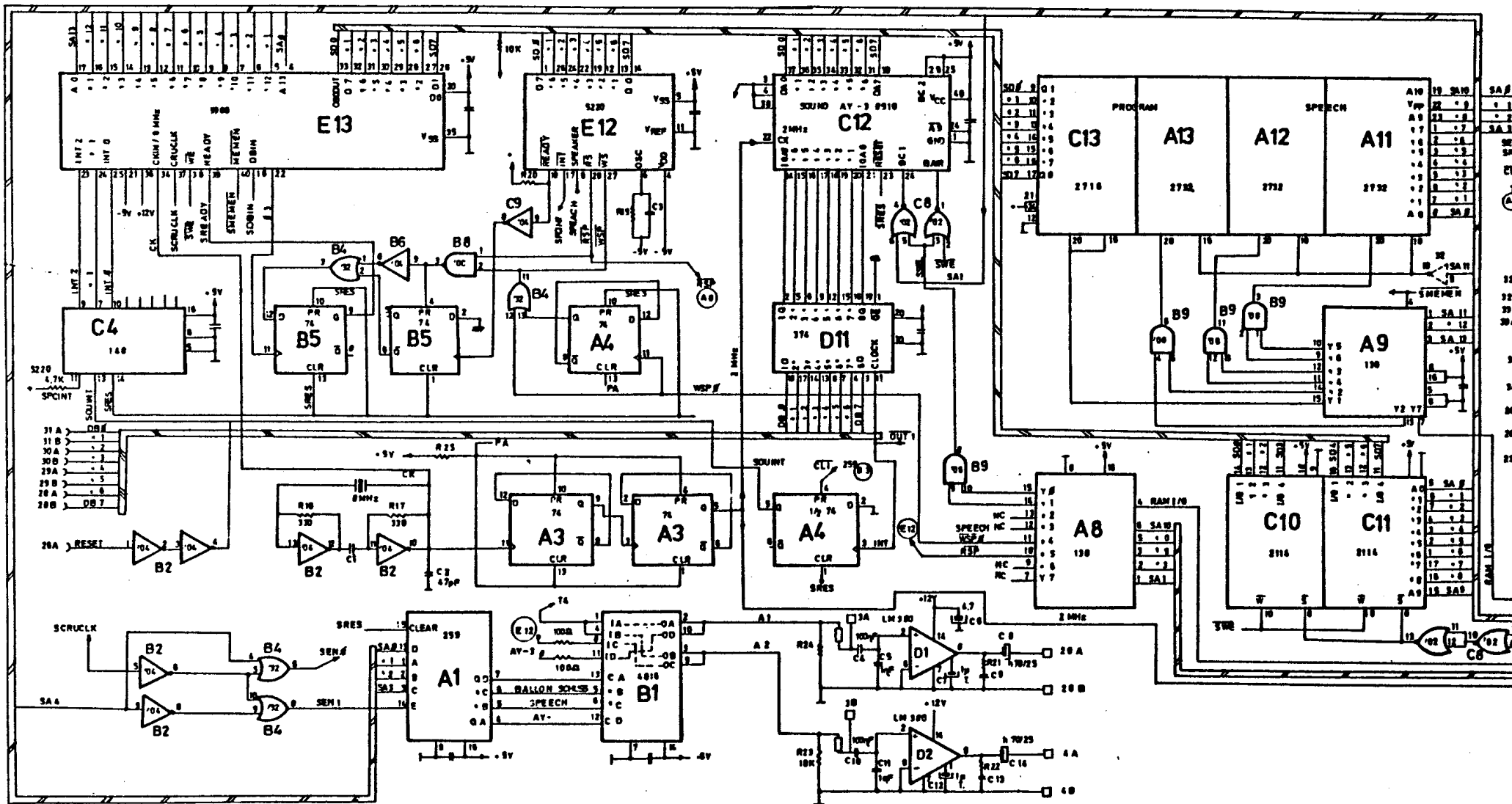
Netzwerk:	Datum:	VIDEO-GAMES, GmbH LICH, W.-GERMANY		
Gezeichnet:	Datum:	Bezeichnung: CPU-BOARD 9985 PL-Nr.: 1110-X		
Geprüft:	Datum:	Doc.-Nr.:	Rev.:	Blatt:
			1/25.82/Ja	3 von 3

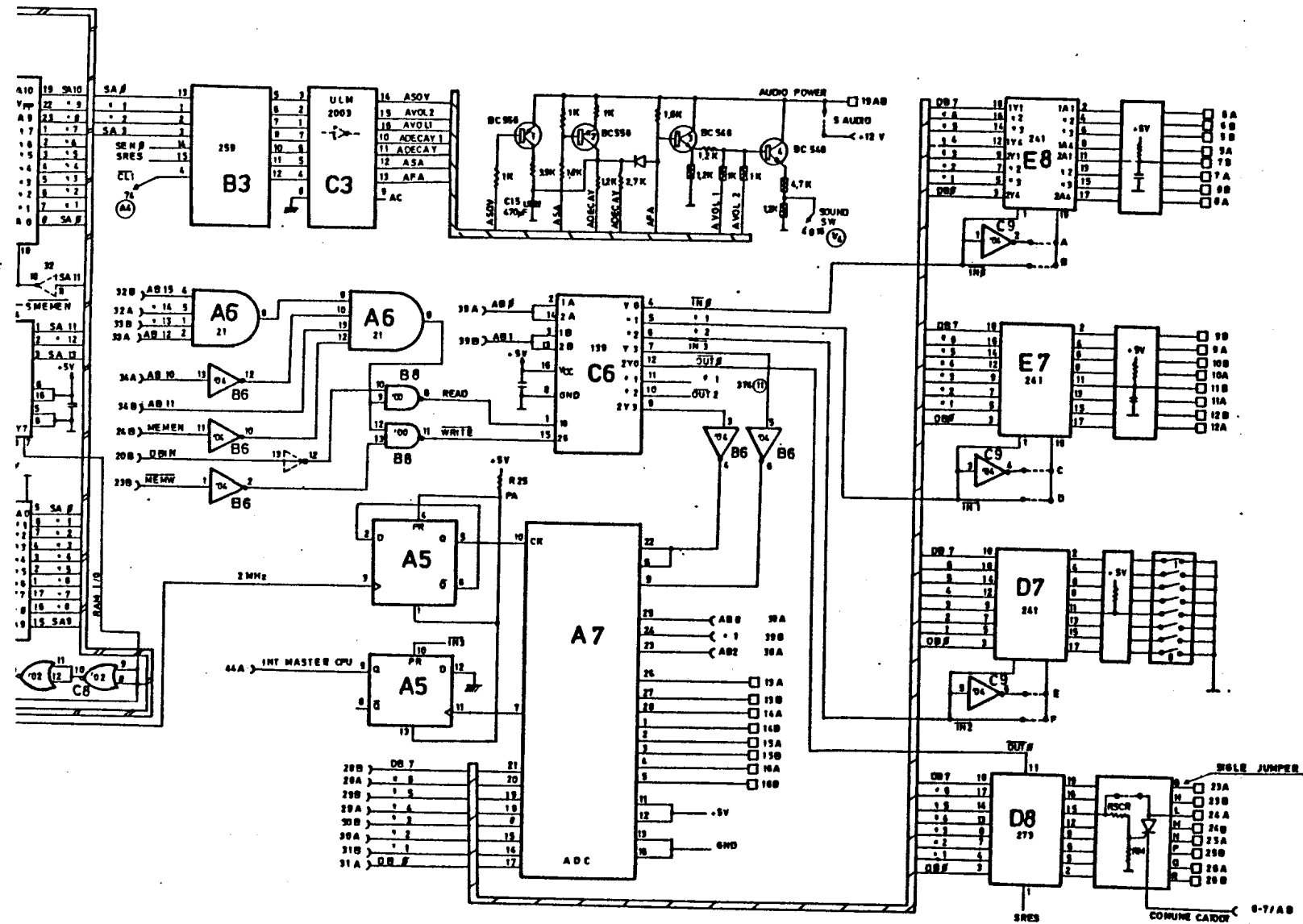
08-07

AS-A15

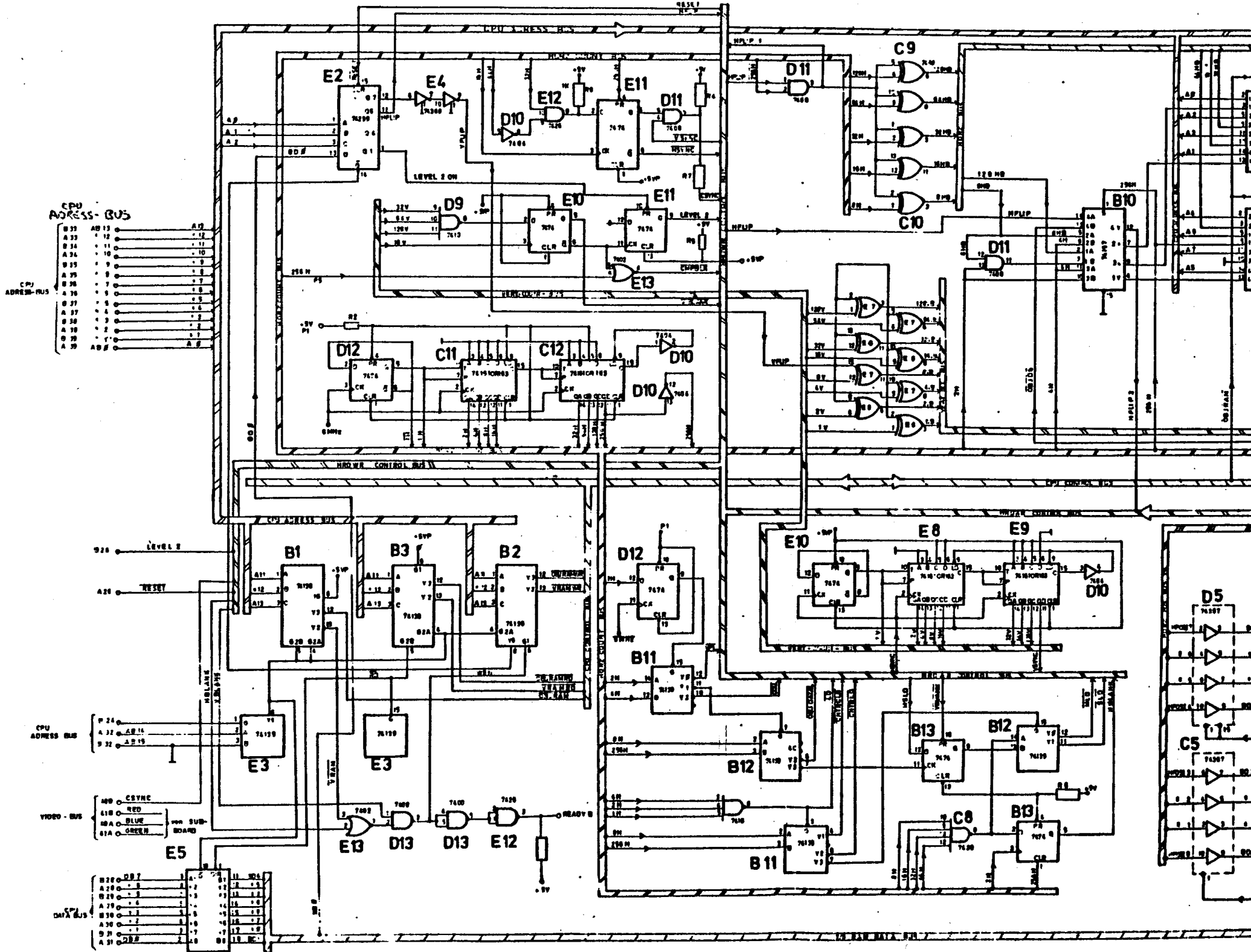


Entwurf:	Datum:	VIDEO-GAMES ,GmbH LICH , W-GERMANY		
Gemacht: Jahrb:	Datum: März 88	Bezeichnung: CPU-BOARD-9995 PL-NR. 1110-X		
Geprüft:	Datum:	Gez. Nr.:	Rev. 1.1/2.02/2	Blatt: 2 von 2





Entwurf:	Datum:	VIDEO-GAMES, GmbH LICH, W.-GERMANY		
Gezeichnet:	Datum:	Bezeichnung		
Jakob	März 82	I/O-SPEECH-SOUND-BOARD		
Geprüft:	Datum:	Doc.-Nr.:	Rev.:	Blatt:
			1322.9.02/1a	



CPU ADDRESS-BUS

0 31	A0 13	A0
0 30	A 12	A 12
0 29	A 11	A 11
0 28	A 10	A 10
0 27	A 9	A 9
0 26	A 8	A 8
0 25	A 7	A 7
0 24	A 6	A 6
0 23	A 5	A 5
0 22	A 4	A 4
0 21	A 3	A 3
0 20	A 2	A 2
0 19	A 1	A 1
0 18	A 0	A 0

CPU ADDRESS BUS

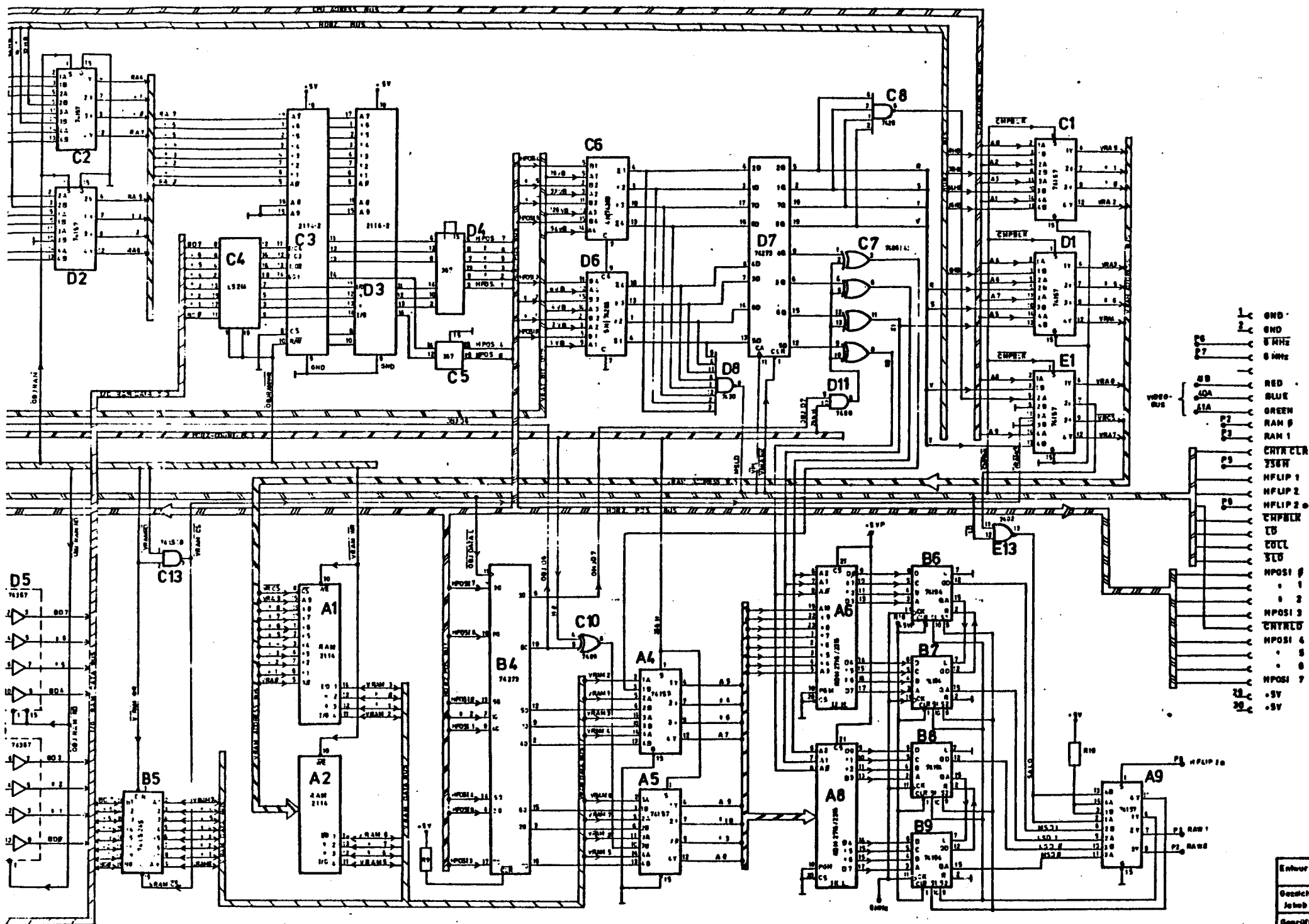
P 24	A 24	A 24
A 32	A 32	A 32
S 32	A 32	A 32

VIDEO-BUS

400	CSYNC	CSUB-BOARD
410	RED	CSUB-BOARD
420	BLUE	CSUB-BOARD
430	GREEN	CSUB-BOARD

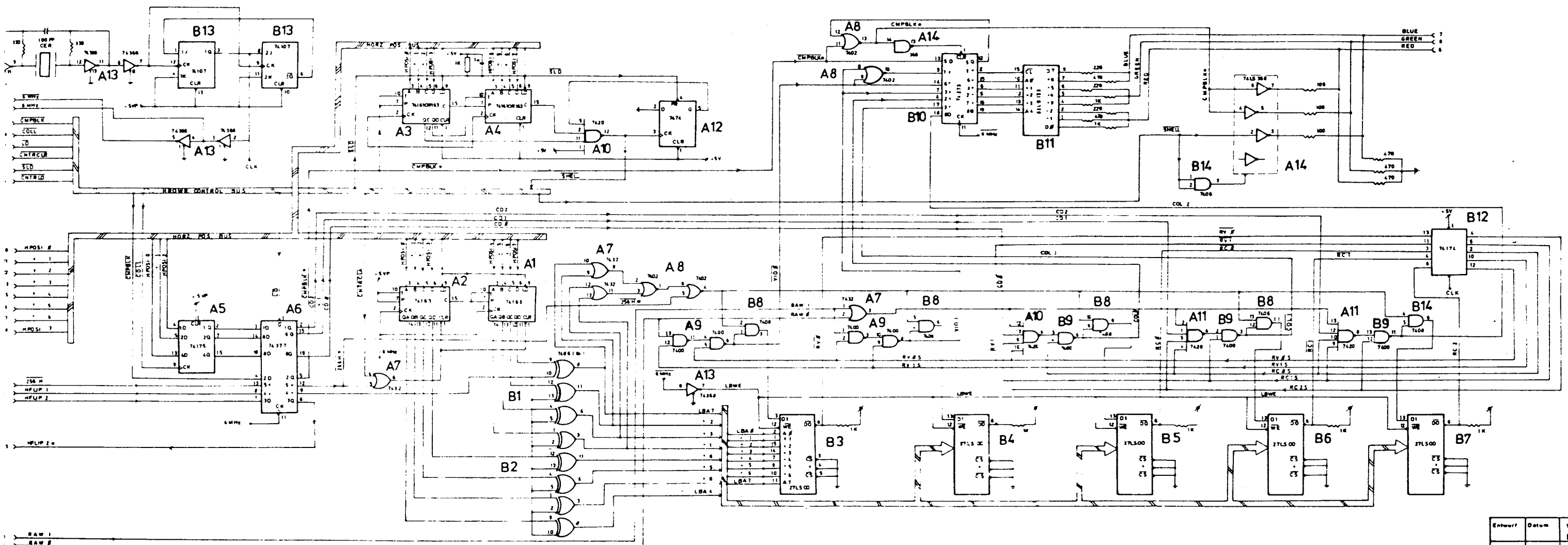
DATA BUS

B 20	D 21	D 21
A 20	D 20	D 20
B 21	D 21	D 21
A 21	D 20	D 20
B 30	D 31	D 31
A 30	D 30	D 30
B 31	D 31	D 31
A 31	D 30	D 30



- 1 GND
- 2 GND
- 3 5 MHz
- 4 0 MHz
- 5 RED
- 6 BLUE
- 7 GREEN
- 8 RAM 1
- 9 RAM 1
- 10 CTRN CLR
- 11 ZSRW
- 12 HFLIP 1
- 13 HFLIP 2
- 14 HFLIP 2
- 15 TRPBLK
- 16 COLC
- 17 STG
- 18 HPOSI 0
- 19 1
- 20 HPOSI 2
- 21 CTRNLED
- 22 HPOSI 4
- 23 5
- 24 HPOSI 6
- 25 HPOSI 7
- 26 +5V
- 27 -5V

Entwurf:
 Gezeichnet:
 Jobob
 Geprüft:
 And.



Entwurf	Datum	VIDEO-GAMES Gm
Gesichtl.	Datum	LICH. W-GERMANY
Jahrb.	Monat	Bezeichnung
Geprüft	Datum	7474-001-R 115
		Rev. 1
		1/22 3 82/74

