

01-SEP-82 14:32

P A R T S L I S T

SHEET A1 OF A3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-MD-5014716-0-0	5014716	ETCHED CIRCUIT BOARD	1	
2	2		1000006-00	10.0 MMF 100V 5% 200 PPM	1	C15
3	3		1000021-00	220.0 MMF 100V 5% 200 PPM	2	C14, C16
4	4		1000025-00	560.0MMF 100V 5% 200 PPM	2	C9, C11
5	5		1000042-00	1000.0 MMF 100V 5% 200 PPM	8	C12, C13, C17 THRU C22
6	6		1001739-00	27.0 MMF 100V 5% 200 PPM	1	C10
7	7		1005306-00	6.8 MFD 35V 10% S. TANT	8	C1 THRU C8
8	8		1012784-00	.047 MFD 50V -20 +80 CER	32	C23 THRU C54
9	9		1100114-00	D664 QS/75 PCB PIV = 25V SP	6	D18 THRU D23
10	10		1103340-00	IN 4736A VZ = 6.8 5% 1W	1	D16
11	11		1105796-00	IN 4004 PIV = 400 I=1A	1	D15
12	12		1109943-00	IN 4733A VZ = 5.1 5% 1W	1	D17
13	13		1114136-01	LED 5.6 MA 5V	14	D1 THRU D14
14	14		1209838-00	SOCKET 16 PIN	1	E68
15	15		1209941-02	HEADER 100 40POS RT ANGLE	2	J1, J2
16	16		1210209-00	SW, TQG, SPDT, .01A @ 6V, ON, ON	1	S1
17	17		1211164-00	SW, DIP 1P 1A 4 POS	1	E34
18	18		1211164-04	SW, DIP 1P 1A 8 POS	2	E60, E69
19	19		1211164-06	SW, DIP 1P 1A 10 POS	1	E102
20	20		1215006-06	SOCKET 24 PIN IC LOW PROFILE	4	XE27 THRU XE30
21	21		1215006-08	SOCKET 40 PIN IC LOW PROFILE	1	XE98
22	22		1300005-01	R NETWORK 13-1K 5.0% 14 PIN	1	E59
23	23		1300005-03	R NETWORK 13-10K 5.0% 14 PIN	1	E101
24	24		1300229-00	100.0 .25W 5.0% CC	1	R12
25	25		1300309-00	390.0 .25W 5.0% CC	2	R9, R21
26	26		1300365-00	1.0K .25W 5.0% CC	24	R4 THRU R8, R10, R11, R13 THRU R18, R22, R31, R32, R52 THRU R58.
27	27					R29, R33, R43, R45 THRU R51, R59
28	28		1300447-00	4.7K .25W 5.0% CC	11	R27
29	29		1300479-00	10.0K .25W 5.0% CC	1	R20, R23, R24, R28, R30
30	30		1301322-00	180.0 .25W 5.0% CC	5	

REVISION HISTORY		BASIC PART NO:		DRN:	C. ROLINSON	DATE:	11-JUN-82	D I G I T A L			
ENG	ECO HISTORY	REV	SECTION A OF A	CHK'D:	D. KNOX	DATE:	11-JUN-82	TITLE PARTS LIST			
	INITIAL	C	SECTION VARIATION INDEX					M7190			
			[A] 00								
			[B]								
			[C]	DES ENG:	R. STARKEY	DATE:	11-JUN-82				
			[D]								
			[E]								
			[F]	RESP. ENG.:	R. STARKEY	DATE:	11-JUN-82	DOCUMENT NUMBER			
			[H]								
			[J]					SIZE	CODE	NUMBER	REV
			[K]	MFG. ENG.:	A. WILLIAMS	DATE:	11-JUN-82	K	PL	M7190-0-0	C
			[L]								
			[M]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER		FILE NAME		EDIT #	
			[N]	D-UA-M7190-0-0		B-DD-M7190-0		KPLM7190		4	
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PARTS LIST

SHEET A2 OF A3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	30		1301424-00	680.0 .25W 5.0% CC	1	R25
32	31		1301695-00	47.0 .50W 5.0% CC	2	R1, R2
33	32		1301808-00	22.0K .25W 5.0% CC	9	R34, R36 THRU R42, R44
34	33		1302177-00	47.0K .25W 5.0% CC	1	R26
35	34		1302465-00	18.0K .25W 5.0% CC	1	R19
36	35		1310881-03	100.0 .25W 5.0% FUSE	1	R35
37	36		1316395-02	R NETWORK 9-1.0K 2% 10 PIN SIP	1	R3
38	37		1812396-05	XTAL 6.144 MHZ	1	Y1
39	38		1909705-00	DEC 8881 NAND GATE-QUAD	1	E89
40	39		1910091-00	DEC 7437 AND GATE-QUAD	1	E106
41	40		1911116-00	DEC 8837 RECEIVER, BUS, HEX	1	E78
42	41		1911469-00	DEC 8640 RECEIVER, BUS, QUAD	1	E112
43	42		1912395-00	8136 COMPARATOR - 6 BIT UNIFIED	3	E88, E99, E100
44	43		1912799-00	74LS00 NAND GATE-QUAD	5	E37, E50, E70, E96, E113
45	44		1912801-00	74LS02 NOR-GATE-QUAD	2	E44, E115
46	45		1912803-00	74LS04 INVERTER GATE-HEX	3	E80, E103, E118
47	46		1912805-00	74LS08 AND GATE-QUAD	4	E36, E47, E87, E111
48	47		1912811-00	74LS21 AND GATE-DUAL	2	E39, E95
49	48		1912815-00	74LS30 NAND GATE-SINGLE	1	E38
50	49		1912816-00	74LS32 OR GATE-QUAD 2IN	1	E22
51	50		1912817-00	74LS37 NAND GATE-QUAD	1	E54
52	51		1912824-00	74LS74 FF-D DUAL, EDGE TRIG	6	E42, E45, E46, E104, E114, E116
53	52		1912837-00	74LS123 ONE SHOT-DUAL	3	E35, E92, E117
54	53		1912842-00	74LS138 DECODER-THREE INPUT	1	E9
55	54		1912843-00	74LS139 DECODER, 2 OF 4 (DUAL)	1	E86
56	55		1912844-00	74LS151 MUX 1 OF 8	2	E76, E90
57	56		1912847-00	74LS157 MUX 1 OF 2 (QUAD)	1	E10
58	57		1912849-00	74LS161 MUX 1 OF 2 (QUAD)	1	E91
59	58		1912853-00	74LS175 FF-D QUAD	2	E71, E81
60	59		1912868-00	74LS299 SHIFT REG. 8-BIT	1	E53
61	60		1913040-00	DC005 TRANSCEIVER 4 BIT	4	E51, E52, E61, E62
62	61		1914083-00	8542 REGISTER, I/O-QUAD, TRI-STA	2	E63, E64
63	62		1914213-00	81LS97 BUFFER GATE-OCTAL	5	E43, E72, E73, E82, E83
64	63		1914214-00	74LS374 FF-D OCTAL EDGE TRIG	3	E67, E93, E94
65	64		1914438-00	DC013 UNIBUS INTERRUPT	2	E109, E110
66	65		1914451-00	74LS393 COUNTER, BINARY, 4 BIT	1	E105
67	66		1915219-00	74LS373 FF-D OCTAL TRANSPARENT	2	E31, E97
68	67		1915415-00	9636 DRIVER, DUAL, EIA RS-423	3	E11, E12, E25
69	68		1915416-00	9637 RECEIVER, DUAL, RS-422/3	3	E23, E24, E26
70	69		1915417-00	9638 DRIVER, DUAL, EIA RS-422	1	E33
71	70		1916079-00	8253-5 TIMER, PROGRAMMABLE	1	E21
72	71		1916139-00	74LS126A DRIVER, BUS, QUAD	1	E107
73	72		1920433-01	8286 BUS TRANSCEIVER	1	E108
74	73		1920545-01	8273-4 HDLC CONTROLLER	1	E40
75	74		2120070-01	8237-5 DMA CONTROLLER	1	E41
76	75		2111188-02	DEC 3341-2 64X4 FIFO MEMORY	10	E48, E49, E55, E56, E65, E66, E74, E75
77						E84, E85
78	76		2113894-02	8255A-5 PROGRAMMABLE INTERFACE	2	E57, E58

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							M7190		K	PL	M7190-0-0	C

QTY PER VARIATION
REFERENCE DESIGNATOR

PARTS LIST

DESCRIPTION

PART NUMBER

LINE ITEM DOCUMENT NUMBER

2114-2 RAM, 1024X4, STATIC	16	E1 THRU E8, E13 THRU E20
UP 8BIT NMOS	1	E98
32 X 8, TTL, PROM A	1	E79
32 X 8, TTL, PROM B	1	E77
32 X 8, TTL, PROM C	1	E32
2048 X 8, TTL, EPROM 0	1	E30
2048 X 8, TTL, EPROM 1	1	E29
2046 X 8, TTL, EPROM 2	1	E28
2048 X 8, TTL, EPROM 3	1	E27
PLUG PRIORITY #5	1	E68
EYELET	12	
WIRE LINK	4	W3, W4, W5, W6
HANDLE, MODULE, HEX TWO EJECTORS	1	

79	2114212-00
80	2114963-00
81	23314A1-00
82	23315A1-00
83	23316A1-00
84	23289E2-00
85	23290E2-00
86	23291E2-00
87	23292E2-00
88	5408778
89	9000024-01
90	9009185-00
91	1216988-02

D	I	G	I	T	A	L	TITLE	M7190	SECTION A OF A	SIZE CODE	DOCUMENT NUMBER	REV
										K	PL	C
											M7190-0-0	

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POWER AND GROUND TABLE FOR IC's					
	GND	+5V	+V	-11V	-12
STD 14 PIN	7	14	-	-	-
STD 16 PIN	8	16	-	-	-
STD 18 PIN	9	18	-	-	-
STD 20 PIN	10	20	-	-	-
STD 24 PIN	12	24	-	-	-
STD 28 PIN	14	28	-	-	-
STD 40 PIN	20	40	-	-	-
3341	8	16	-	-	1
9636	4	-	8	5	-
9637	4	1	-	-	-
9638	4	1	-	-	-
8237	20	31	-	-	-
8255A	7	26	-	-	-

SIGNAL NAMES HAVE THE FOLLOWING FORMAT

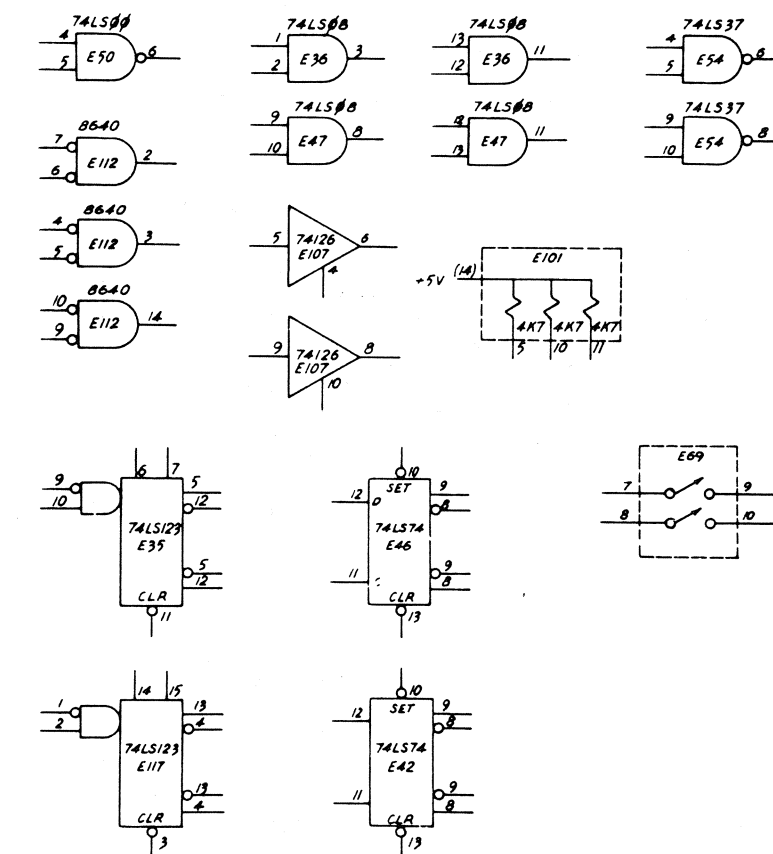
① Sx NAME H
Sx NAME L
② xxx NAME H
xxx NAME L
WHERE
Sx IS A SHEET NUMBER WHERE SIGNAL ORIGINATES
xxx IS A BACKPLANE SLOT AND A PIN DESIGNATOR
EXAMPLE AA2 = SECTION A PIN A2
CT1 = SECTION C PIN T1
"NAME" IS THE SIGNAL MNEMONIC
H OR L IS THE LEVEL FOR THE SIGNALS TRUE OR LOGICAL ONE VALUE H = HIGH, L = LOW

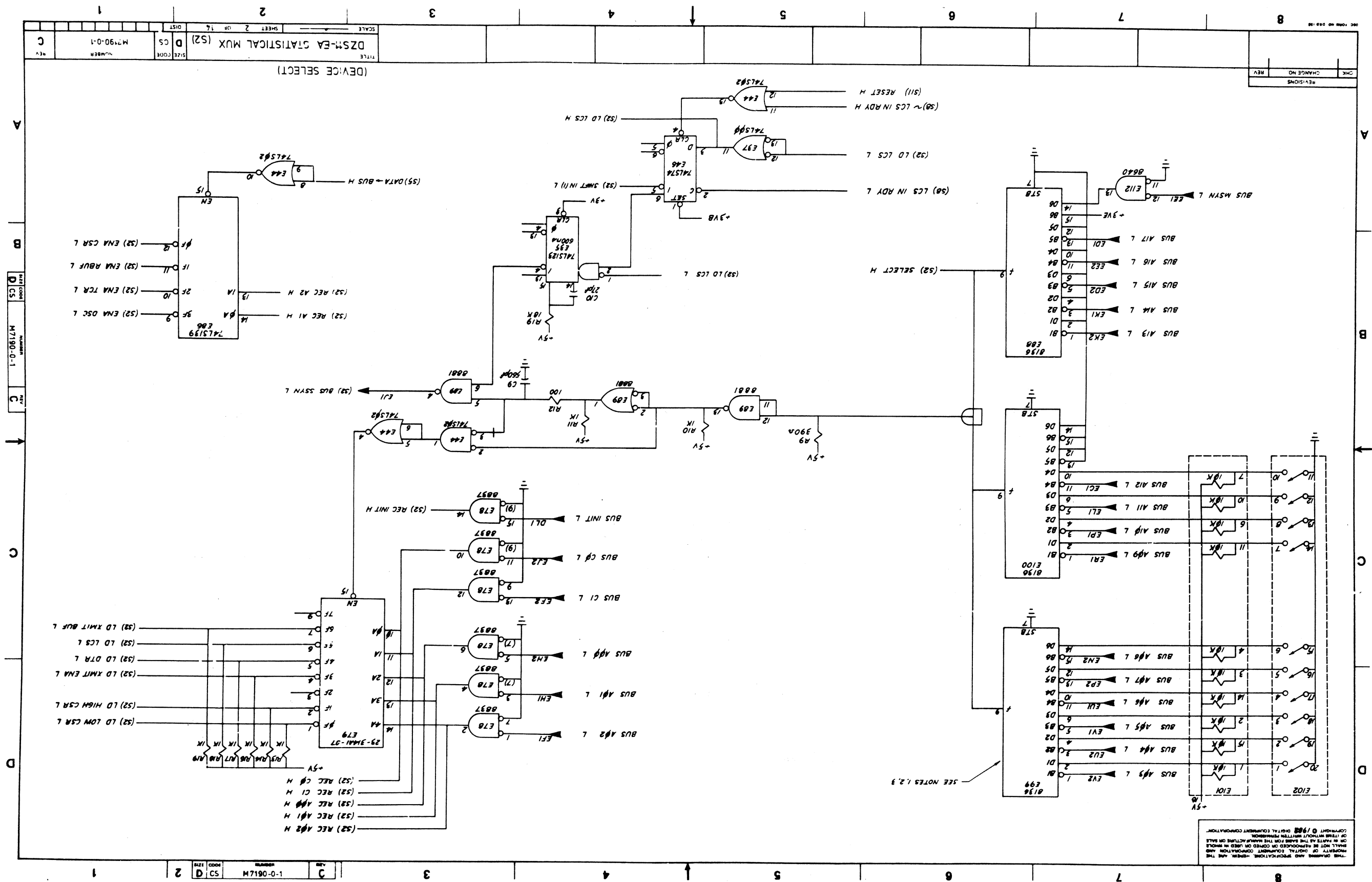
MNEMONICS USED BY THIS PRINT SET

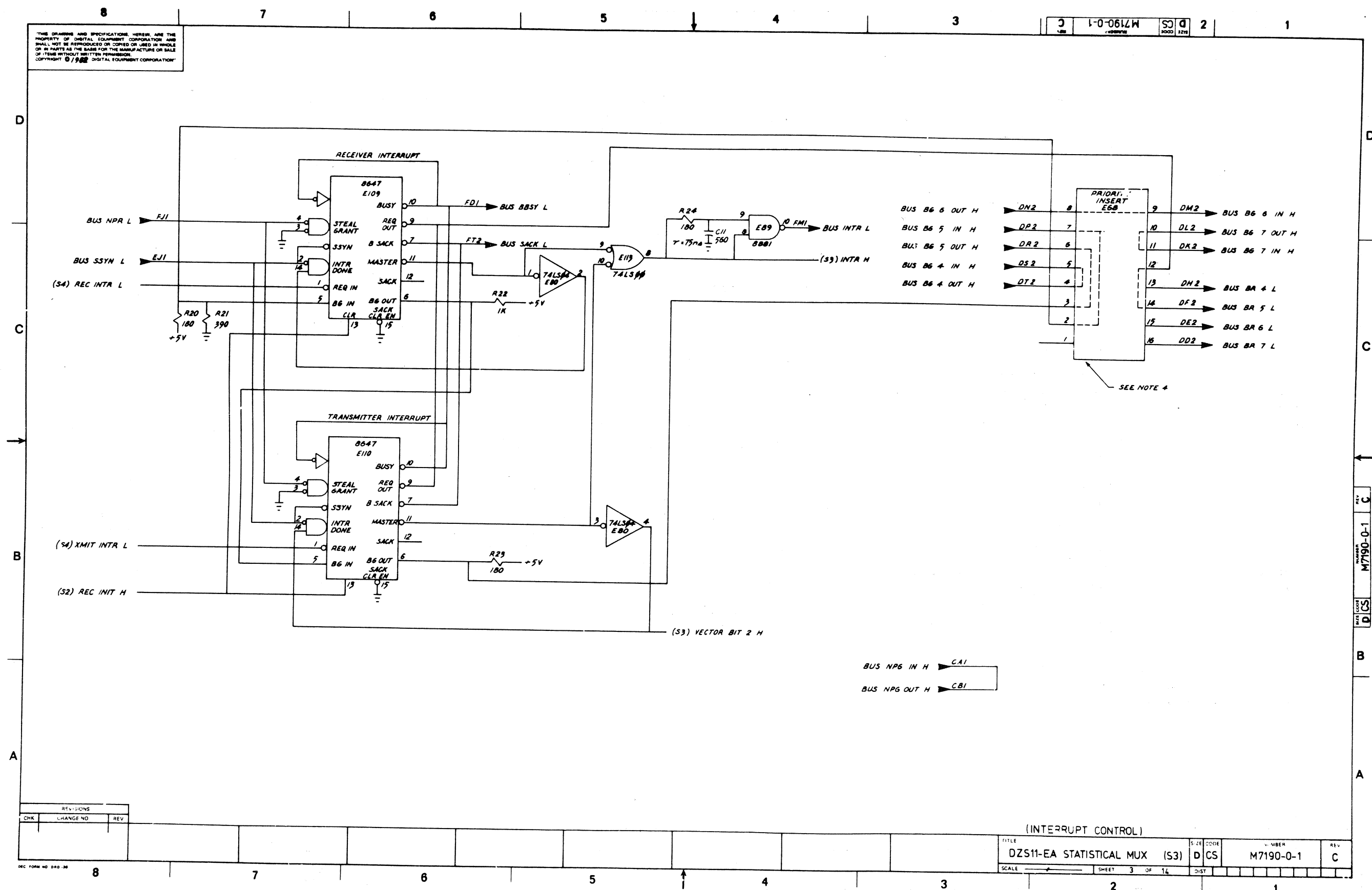
A = MICROCONTROLLER ADDRESS BUS
AENA = MICROCONTROLLER ADDRESS ENABLE
BAD = MICROCONTROLLER BUFFERED ADDRESS DATA BUS
BALE = MICROCONTROLLER BUFFERED ADDRESS LATCH
BR = BUS REQUEST
BRD = MICROCONTROLLER BUFFERED READ
BUF = BUFFER
BUS = UNIBUS
BWR = MICROCONTROLLER BUFFERED READ
COMM = COMMUNICATION
CSR = CONTROL AND STATUS REGISTER
DMA = DIRECT MEMORY ACCESS
DSC = DATA SET CONTROL
DTR = DATA TERMINAL READY
ENA = ENABLE
EXT = EXTERNAL
HOLDA = HOLD ACKNOWLEDGE
HOLD = DMA REQUEST
INIT = INITIALISE
INTA = INTERRUPT REQUEST ACKNOWLEDGE
INTA = INTERRUPT
IOM = MICROCONTROLLER MEMORY PAGE SELECT
LCS = LINE CONTROL AND STATUS
LD = LOAD
LINE = UNIBUS TRANSMIT ENABLE
M = MASTER
MAINT = MAINTENANCE
MEM = MICROCONTROLLER MEMORY
MICRO = MICROCONTROLLER
PIE = PROGRAMMABLE INTERFACE ELEMENT
RBUF = RECEIVER BUFFER
RD = MICROCONTROLLER READ
RDY = READY
REC = RECEIVER
REQ = REQUEST
SEL = SELECT
SW = SWITCH
TCR = TRANSMIT CONTROL REGISTER
TS BUS = TRI STATE BUS
WR = MICROCONTROLLER WRITE
XMIT = TRANSMIT

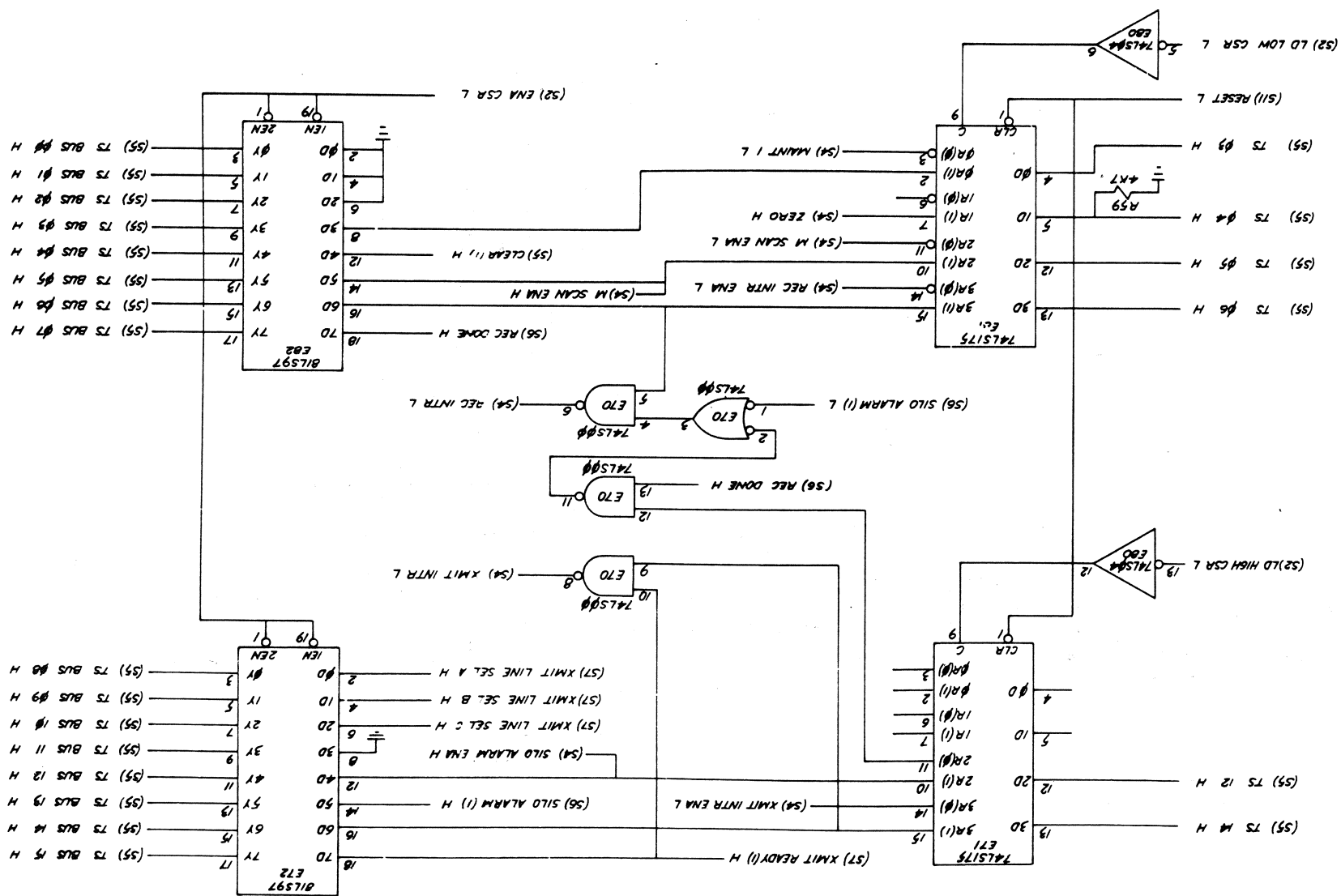
SEE NOTES SHEET 14

THE FOLLOWING SYMBOLS INDICATE SPARE LOGIC AND CIRCUIT ELEMENTS

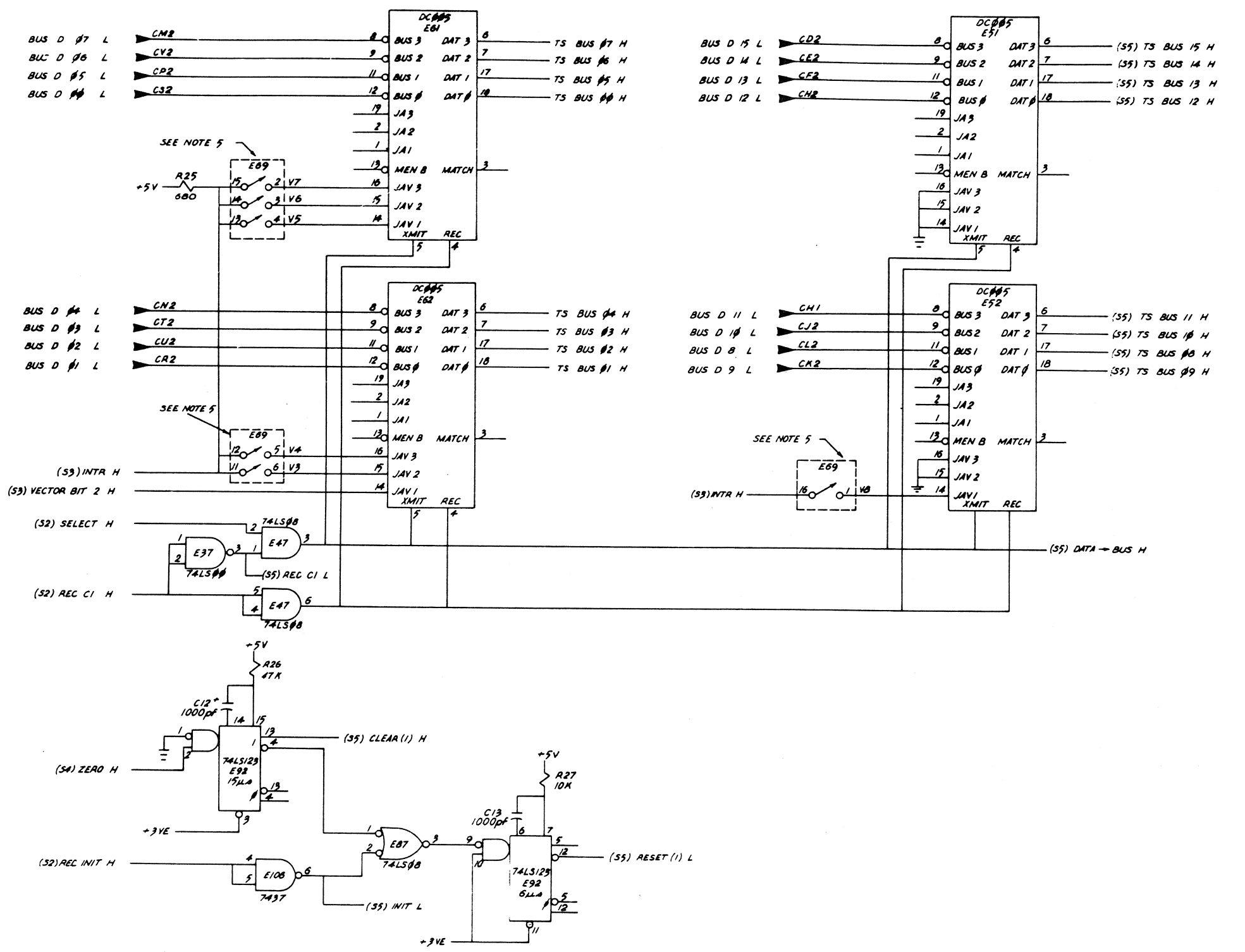








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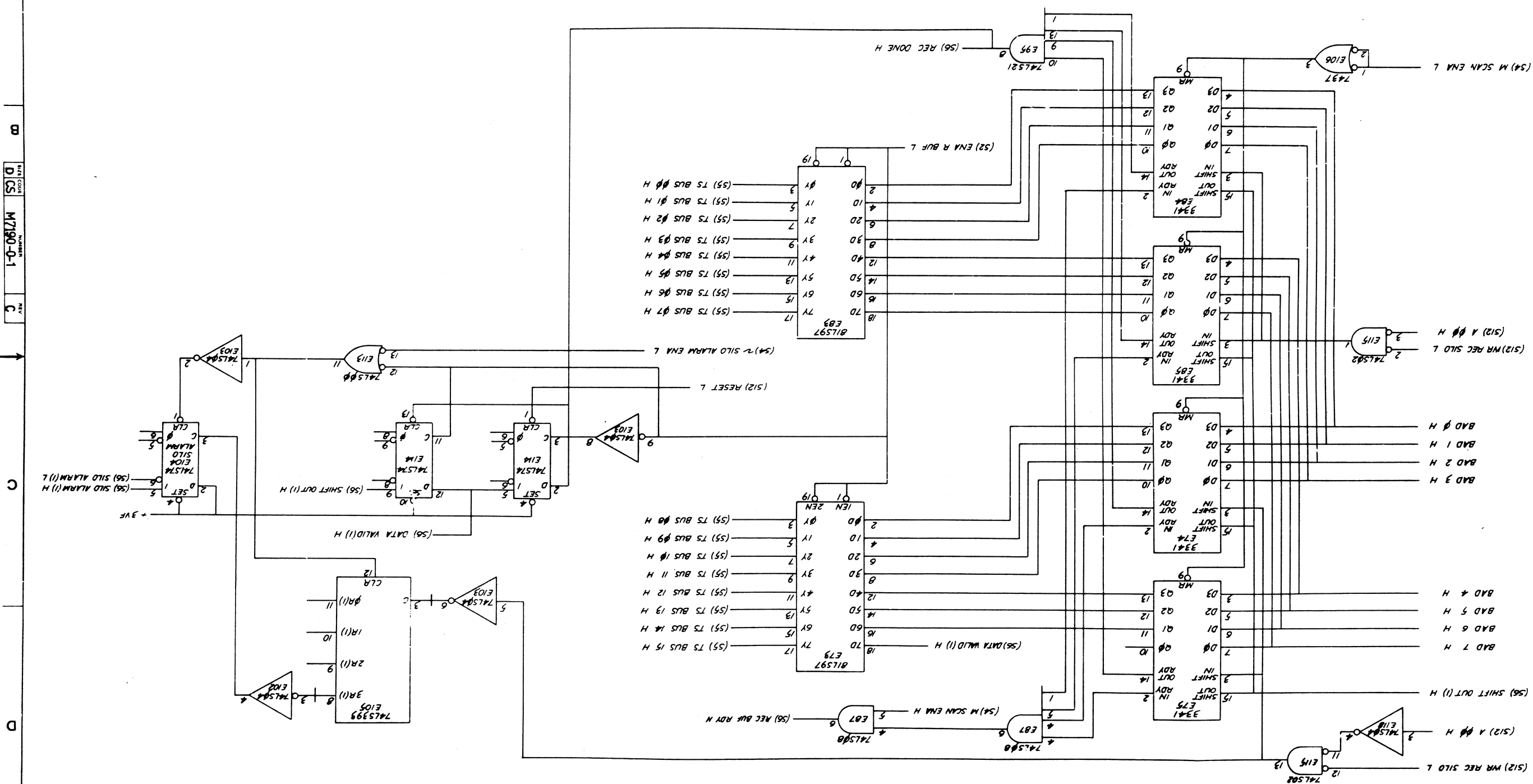
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CHK	1	1
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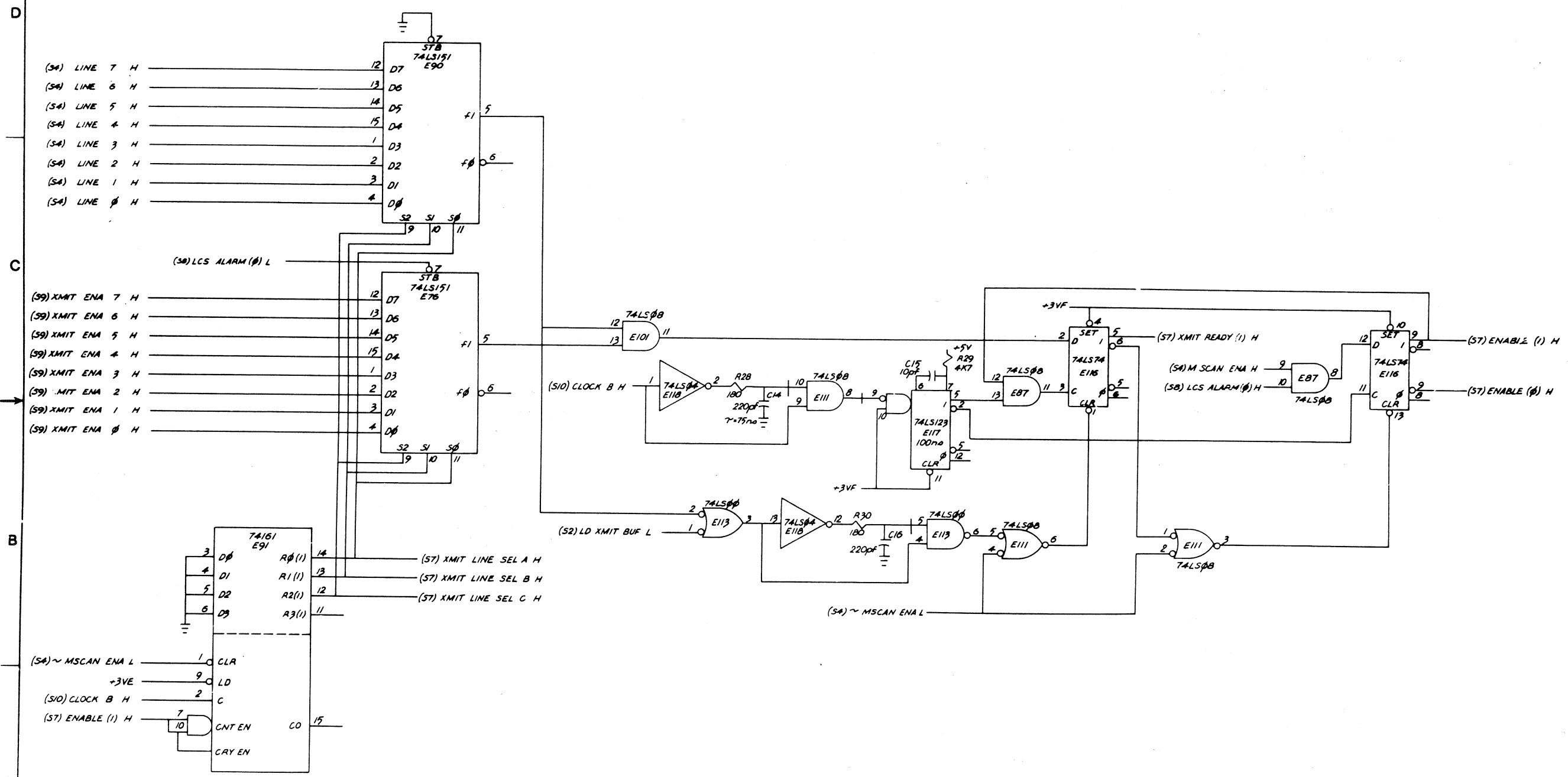
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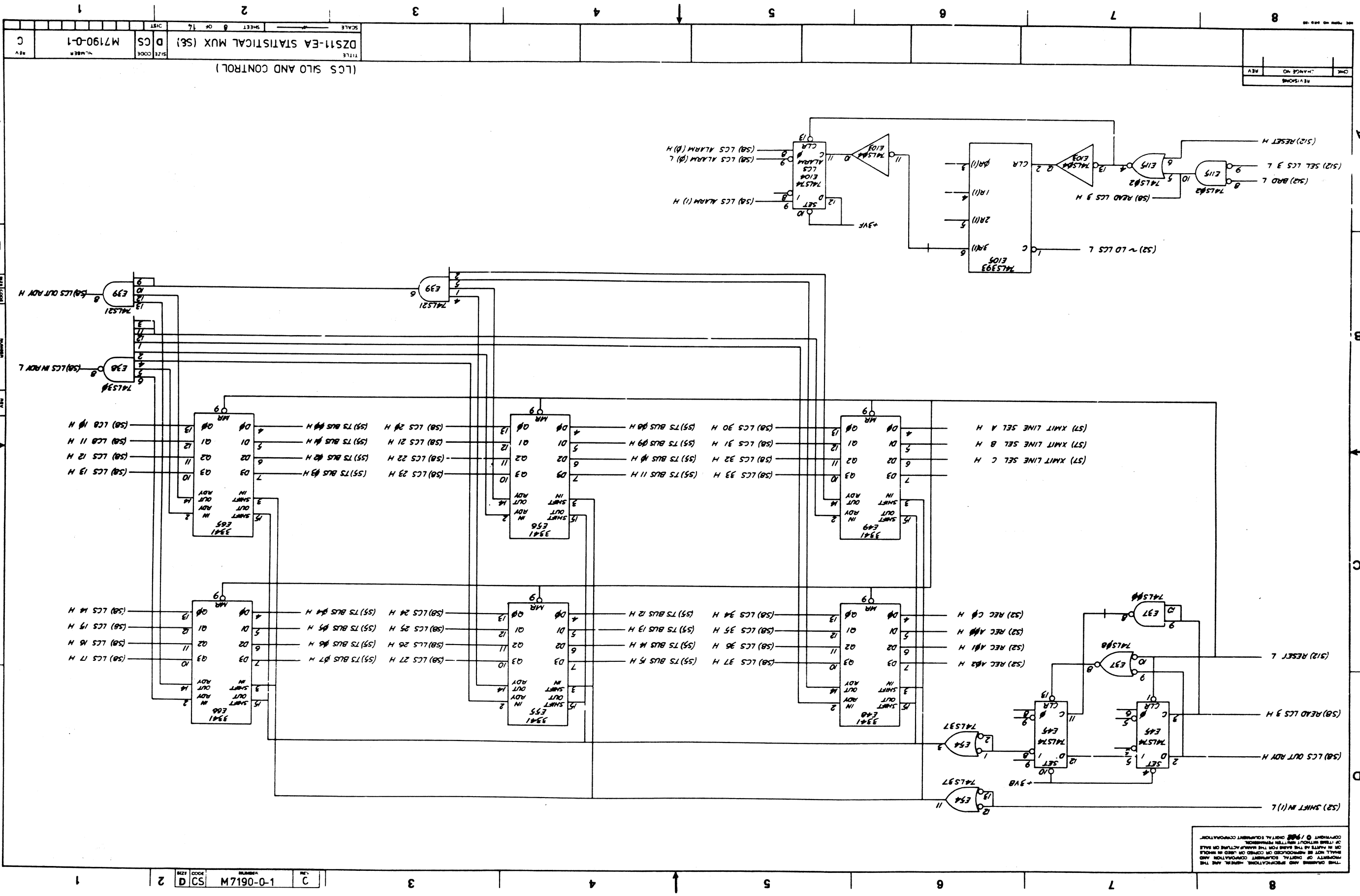
TITLE	DZS11-EA STATISTICAL MUX (S5)	SIZE CODE	D CS	NUMBER	M7190-0-1	REV	C
SCALE		SHEET	5	OF	14	DIST.	



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