INTERFACE CONNECTOR

J1

1	DTR 0	11
2	CAR 0	
3	DTR 1	
4	CAR 1	11
5	DTR 2	12
6	CAR 2	
7	DTR 3	
8	CAR 3	12
9	DTR 4	13
10	CAR 4	
11	DTR 5	
12	CAR 5	13
13	DTR 6	14
14	CAR 6	
15	DTR 7	
16	CAR 7	14
17	0V	11
18	0V	
19	TRANS 0	
20	RING 0	
21	REC 0	
22	0V	
23	TRANS 1	
24	RING 1	
25	REC 1	
26	0V	11
27	TRANS 2	12
28	RING 2	
29	REC 2	
30	0V	
31	TRANS 3	
32	RING 3	
33	REC 3	
34	0V	12
35	TRANS 4	13
36	RING 4	13
37	REC 4	13
38	0V (+5V)	11
39	TRANS 5	13
40	RING 5	13
41	REC 5	13
42	0V (+5V)	11
43	TRANS 6	14
44	RING 6	14
45	REC 6	14
46	0V (+5V)	11
47	TRANS 7	14
48	RING 7	
49	REC 7	
50	0V	14

INTERFACE CONNECTOR

J2

1	DTR 8	A
2	CAR 8	
3	DTR 9	15
4	CAR 9	
5	DTR 10	16
6	CAR 10	
7	DTR 11	
8	CAR 11	16
9	DTR 12	17
10	CAR 12	
11	DTR 13	
12	CAR 13	17
13	DTR 14	18
14	CAR 14	
15	DTR 15	
16	CAR 15	18
17	0V	15
18	0V	
19	TRANS 8	
20	RING 8	
21	REC 8	
22	0V	
23	TRANS 9	
24	RING 9	
25	REC 9	
26	0V	15
27	TRANS 10	16
28	RING 10	
29	REC 10	
30	0V	
31	TRANS 11	
32	RING 11	
33	REC 11	
34	0V	16
35	TRANS 12	17
36	RING 12	17
37	REC 12	17
38	0V (-15V)	11
39	TRANS 13	17
40	RING 13	17
41	REC 13	17
42	0V (+5V)	11
43	TRANS 14	18
44	RING 14	18
45	REC 14	18
46	0V (+5V)	11
47	TRANS 15	18
48	RING 15	
49	REC 15	
50	0V	18

TEST CONNECTORS

J3

1	0V	7
2	DB00 H	
3	DB01 H	
4	DB02 H	
5	DB03 H	
6	DB04 H	
7	DB05 H	
8	DB06 H	
9	DB07 H	
10	0V	
11		
12		
13		
14		
15		
16		
17	0V	
18	EX TEST H	
19	0V	
20	SPARE	2

J4

1	0V	4
2	0V (EX UPRO L)	
3	0V	
4	SPARE	
5	0V	
6	EX STOP H	
7	0V	
8	EX CLOCK L	
9	0V	
10	EX RESET L	
11	0V	4
12	EX PROM EN L	5
13	0V	5
14	0V	4
15	PA10 H	3
16	PA09 H	
17	PA08 H	
18	PA07 H	
19	PA06 H	
20	PA05 H	
21	PA04 H	
22	PA03 H	
23	PA02 H	
24	PA01 H	
25	PA00 H	
26	0V	3

EDGE CONNECTORS

FRONT A		BACK
AA1	AA2 +5V	
AB1	AB2	
AC1	AC2 0V	
AD1	AD2	
AE1	AE2	
AF1	AF2	
AH1	AH2	
AJ1	AJ2	
AK1	AK2	
AL1	AL2	
AM1	AM2	
AN1	AN2	
AP1	AP2	
AR1	AR2	
AS1	AS2	
AT1 0V	AT2	
AU1	AU2	
AV1	AV2	

FRONT B		BACK
BA1	BA2 +5V	
BB1	BB2	
BC1	BC2 0V	
BD1	BD2	
BE1	BE2	
BF1	BF2	
BH1	BH2	
BJ1	BJ2	
BK1	BK2	
BL1	BL2	
BM1	BM2	
BN1	BN2	
BP1	BP2	
BR1	BR2	
BS1	BS2	
BT1 0V	BT2	
BU1	BU2	
BV1	BV2	

FRONT C			BACK
CA1 Bus NPG IN H	7	CA2 +5V	
CB1 Bus NPG OUT H	7	CB2	
CC1 Bus PAL	8	CC2 0V	
CD1		CD2 Bus DI5 L	2
CE1		CE2 Bus DI4 L	
CF1		CF2 Bus DI3 L	
CH1 Bus DI1 L	7	CH2 Bus DI2 L	
CJ1		CJ2 Bus DI0 L	
CK1		CK2 Bus DO9 L	
CL1		CL2 Bus DO8 L	
CM1		CM2 Bus DO7 L	
CN1 Bus DCLO L	8	CN2 Bus DO6 L	
CP1		CP2 Bus DO5 L	
CR1		CR2 Bus DO1 L	
CS1 Bus PB L	8	CS2 Bus DO0 L	
CT1 0V		CT2 Bus DC3 L	
CU1 +15V		CU2 Bus DO2 L	
CV1 Bus ACLO L	8	CV2 Bus DO6 L	2

FRONT D		BACK
DA1	DA2 +5V	
DB1	DB2	
DC1	DC2 0V	
DD1	DD2	
DE1	DE2	
DF1	DF2 Bus BR 5 L	7
DH1	DH2 Bus BR 4 L	8
DJ1	DJ2	
DK1	DK2 BG 7 IN H	8
DL1 Bus WAIT L	8 DL2 BG 7 OUT H	
DM1	DM2 BG 6 IN H	
DN1	DN2 BG 6 OUT H	8
DP1	DP2 BG 5 IN H	7
DR1	DR2 BG 5 OUT H	7
DS1	DS2 BG 4 IN H	8
DT1 0V	DT2 BG 4 OUT H	8
DU1	DU2	
DV1	DV2	

FRONT E		BACK
EA1	EA2 +5V	
EB1	EB2	
EC1 Bus A12 L	9 EC2 0V	
ED1 Bus A17 L	9 ED2 Bus A15 L	9
EE1 Bus MAPEN L	7 EE2 Bus A16 L	
EF1 Bus A22 L	9 EF2 Bus C1 L	
EH1 Bus A21 L	9 EH2 Bus A20 L	
EJ1 Bus MAPEN L	7 EJ2 Bus C0 L	
EK1 Bus A18 L	9 EK2 Bus A13 L	9
EL1 Bus A11 L	9 EL2	
EM1	EM2	
EN1	EN2 Bus A08 L	9
EP1 Bus A10 L	9 EP2 Bus A07 L	9
ER1 Bus A09 L	9 ER2	
ES1	ES2	
ET1 0V	ET2	
EU1 Bus A06 L	9 EU2 Bus A04 L	9
EV1 Bus A05 L	9 EV2 Bus A03 L	9

FRONT F		BACK
FA1	FA2 +5V	
FB1	FB2 -15V	
FC1	FC2 0V	
FD1 Bus BBSY L	7 FD2	
FE1	FE2	
FF1	FF2	
FH1	FH2	
FJ1 Bus NPR L	7 FJ2	
FK1	FK2	
FL1	FL2	
FM1 Bus WTR L	7 FM2	
FN1	FN2	
FP1	FP2	
FR1	FR2	
FS1	FS2	
FT1 0V	FT2 Bus HALT L	7
FU1	FU2	
FV1	FV2	

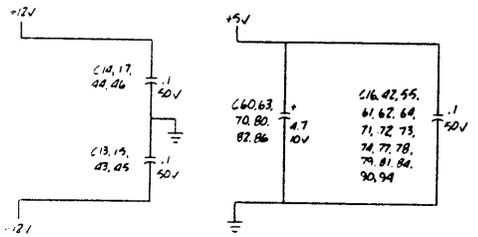
NOTES: UNLESS OTHERWISE SPECIFIED
1. CAPACITANCE VALUES ARE IN MICROFARADS.
2. RESISTANCE VALUES ARE IN OHMS, 1/4W, ±5%

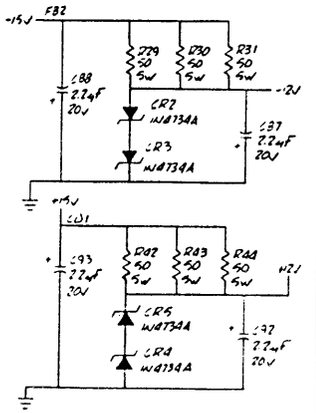
REFERENCE DESIGNATION	GATES USED PER TOTAL	PART NUMBER
U11	2/4	7438
U47	2/6	74L00
U52	3/4	74L00
U53	3/4	74L00
U56	2/4	74L32
U71	3/4	74L00
U77	2/3	74L10
U81	3/4	74LS132
U85	1/2	74LS74
U90	5/6	74L04
U90	3/6	74L04
U108	3/4	74L02
U118	3/4	74L08
U125	5/6	74L00
U128	2/4	74L08
U129	2/3	74L10
U130	3/4	7438
U134	3/4	7438
U136	3/4	74L32
U144	3/6	5537

UNIT REFERENCE DESIGNATION USED	
CAPACITOR	C94
CONNECTOR	J4
DIODE	CR5
INTEGRATED CIRCUIT	U157
RESISTOR	R44
RESISTOR MODULE	RM35
SWITCH	SW4

JUMPER LOCATIONS	
A, B	A

SWITCH LOCATIONS	
SW1	3
SW2	3
SW3	9
SW4	9





REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	J	ECO # 0737 INITIAL RELEASE	3 MAR 83	

SHEET 19	BAUD RATE GENERATOR
SHEETS 11-18	CHANNEL 0 THRU CHANNEL 15
SHEET 10	BREAK CONTROL REGISTER / LINE DATA REGISTER CIRCUITRY
SHEET 9	VECTOR INTERRUPT ADDRESS CODE / ADDRESS DECODE DRIVE
SHEET 8	INIT CONTROL
SHEET 7	NPR CONTROL / BUS ARBITRATION
SHEET 6	BUFFER ADDRESS REGISTER / BUFFER
SHEET 5	CONTROL MEMORY
SHEET 4	CLOCKING / 25.6 US TIMER
SHEET 3	TEST MUX
SHEET 2	AMUX / ALU / DMUX / CONTROL DATA REGISTER

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: FRACTIONS DECIMAL 3 PLACES .X ± .01 .XX ± .005 .XXX ± .010 ANGLES ± 1°

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MATERIAL | FINISH

DRAWN / PLOTT 13 MAR 83
CHECKED
ENGINEER
APPROVED
APPROVED

NEXT ASSY | USED ON
APPLICATION

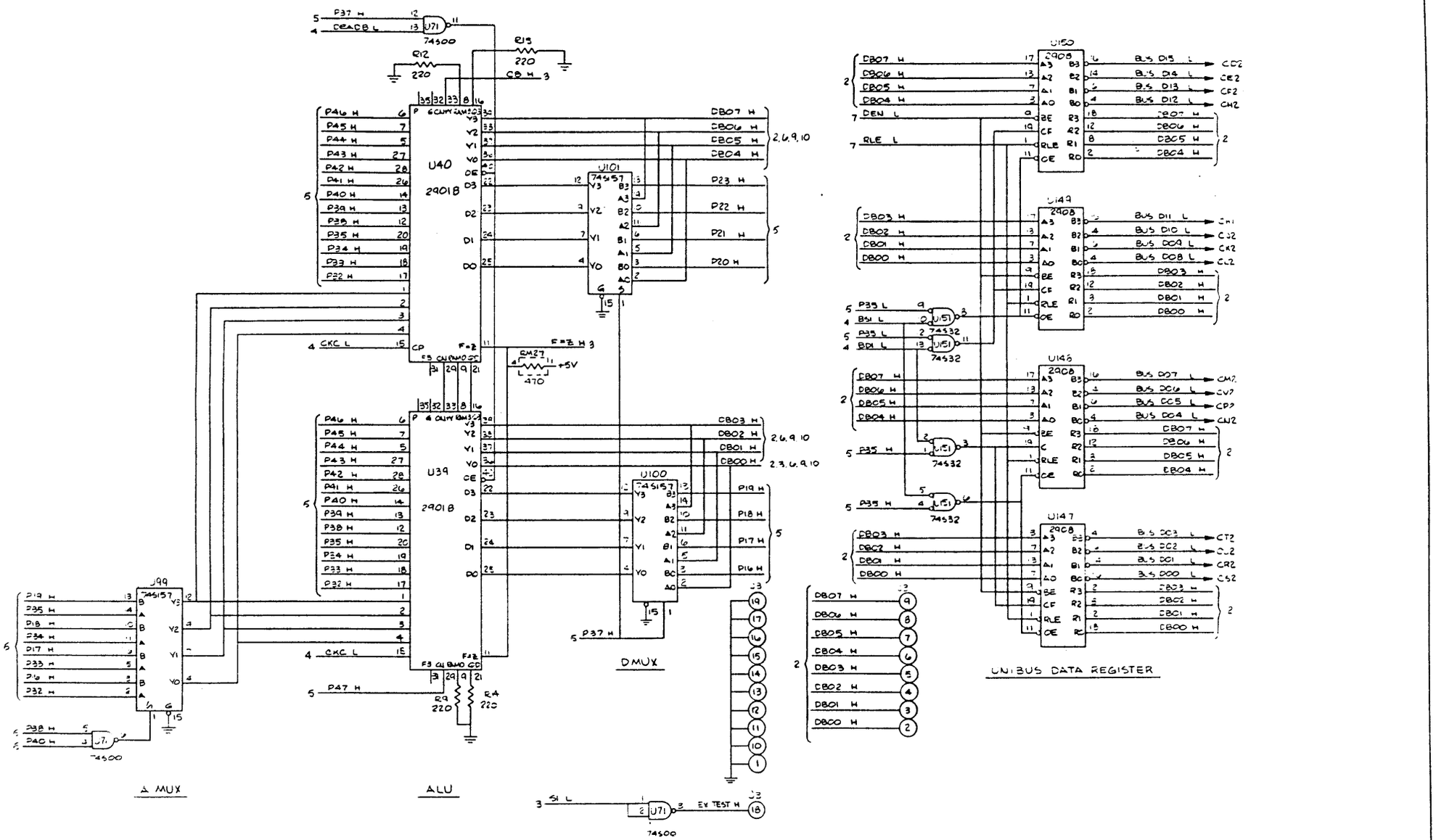
DO NOT SCALE DRAWING

EMULEX CORPORATION
COSTA MESA, CALIF.

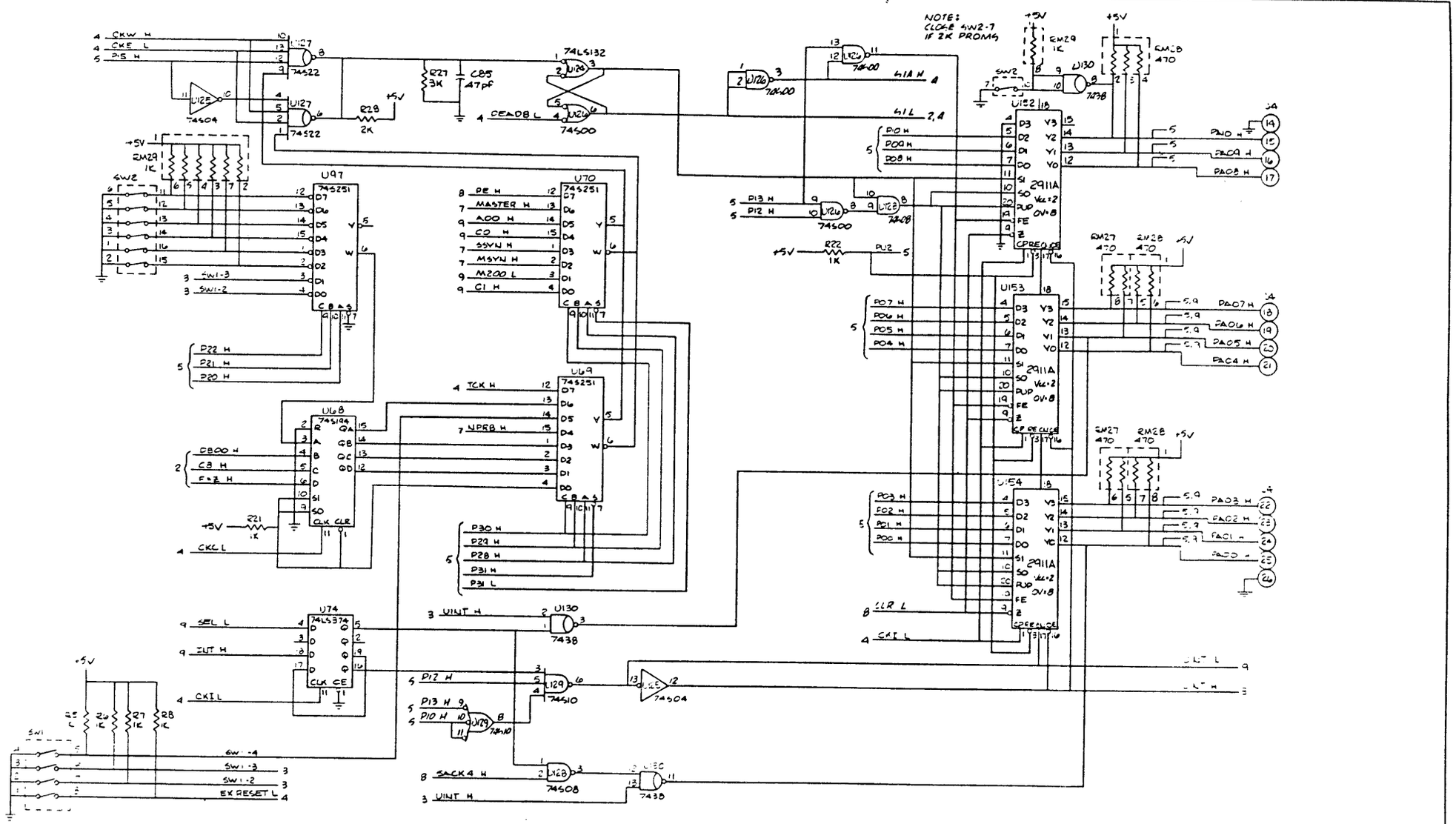
TITLE SCHEMATIC DIAGRAM - CU21
COMMUNICATIONS CONTROLLER

SIZE D | CODE IDENT NO | DRAWING NO CU21C005 | REV

SCALE 1/1 | SIZE E | PO# ORDER NO | SHEET 1 OF 19

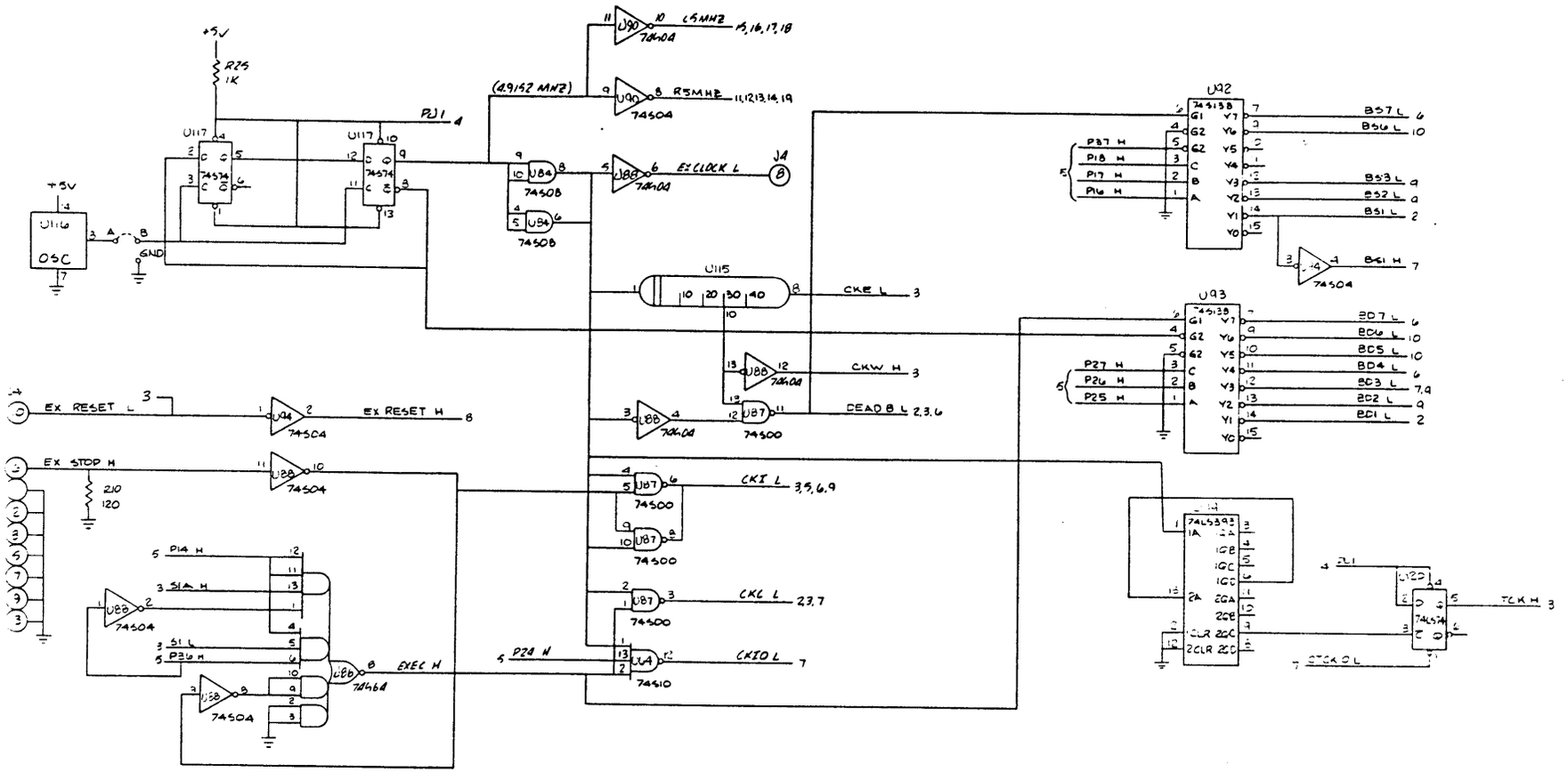


SIZE	CODE IDENT NO	DRAWING NO	REV
D		2021106G05	
SCALE NONE		SHEET 2 OF 19	



TEST MUX

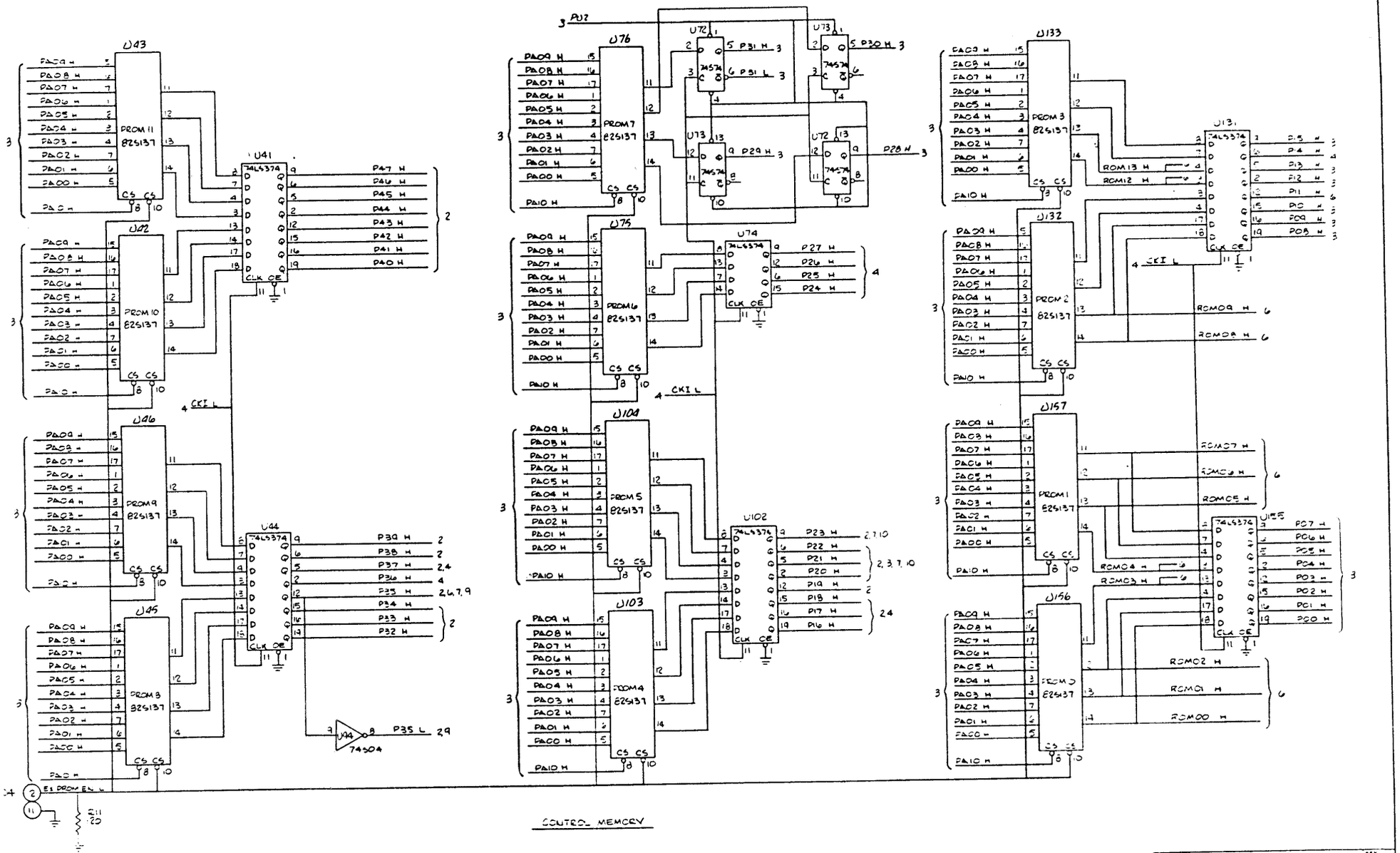
SIZE	CODE IDENT NO	DRAWING NO	REV
D		1021106-05	A
SCALE NONE	FOR ORDER NO	SHEET 5 OF 14	

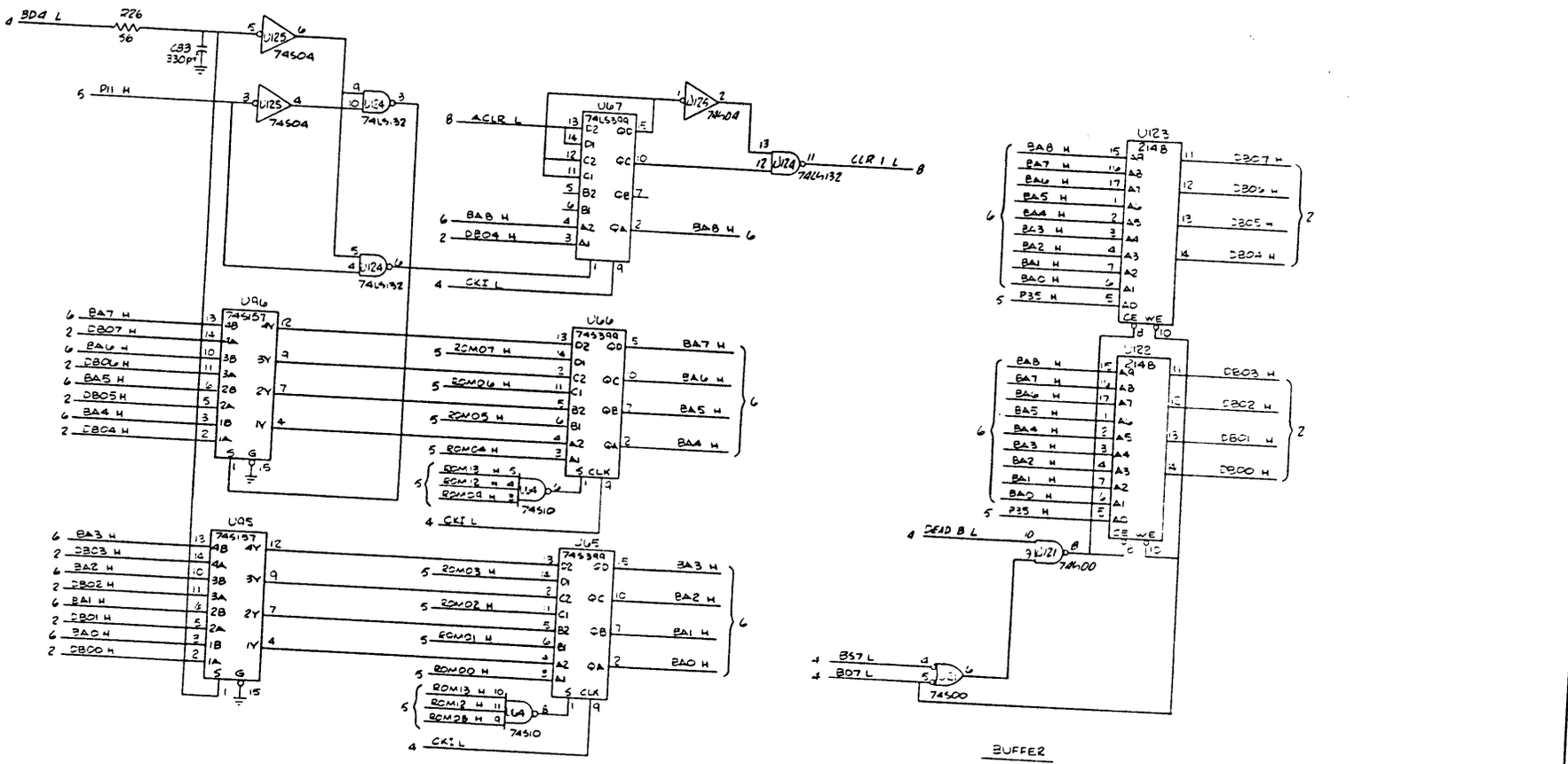


CLOCKING

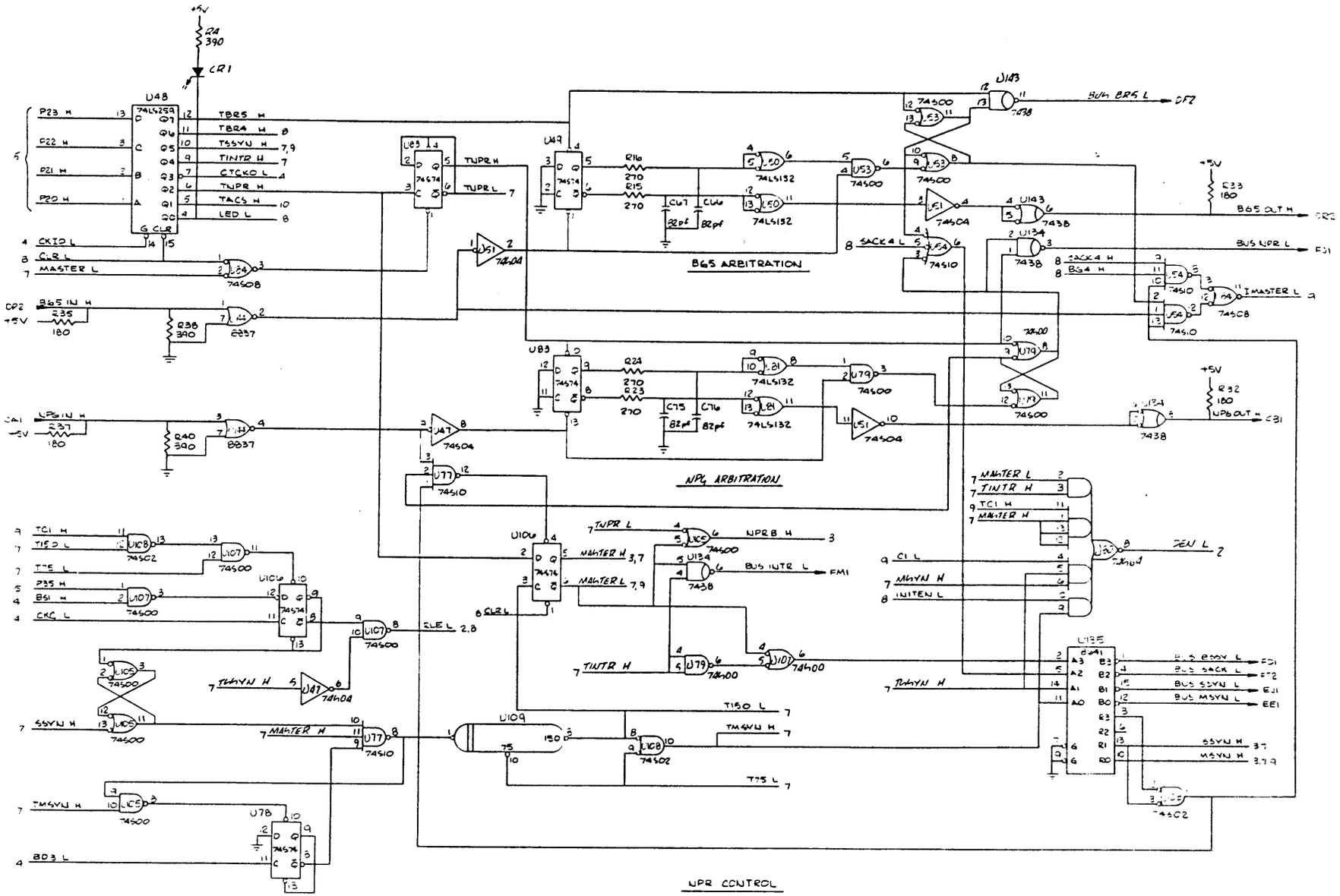
25.6 US TIMER

SIZE	CODE IDENT NO	DRAWING NO	REV
D		108 0005	B
SCALE 1/CLK	WORK ORDER NO	SHEET 4 OF 9	

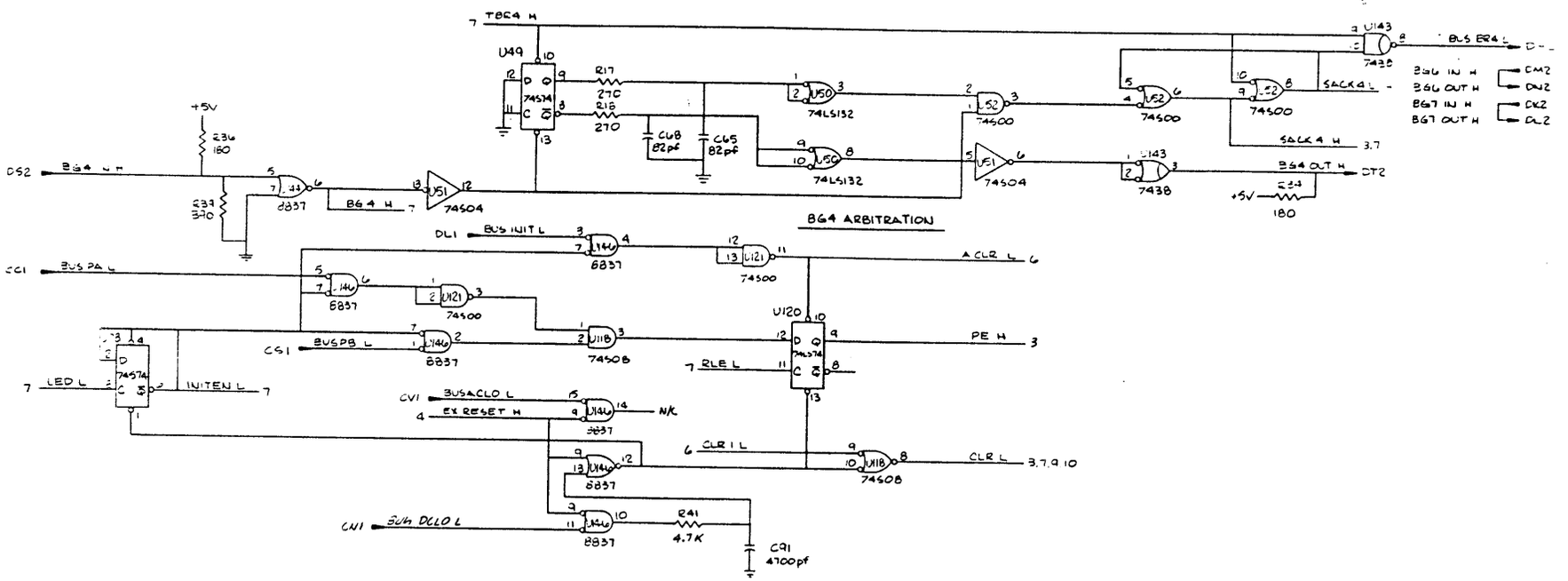

U43
PROM 11
826137
U42
PROM 10
826137
U46
PROM 9
826137
U45
PROM 8
826137
U41
74LS374
U44
74LS374
U44
74S04
P35 L
U76
PROM 7
826137
U75
PROM 6
826137
U104
PROM 5
826137
U103
PROM 4
826137
U74
74LS374
U102
74LS374
U72
74S74
U73
74S74
U133
PROM 3
826137
U132
PROM 2
826137
U157
PROM 1
826137
U156
PROM 0
826137
U131
74LS374
U155
74LS374
CKI L
E1 PROM EN L
5.11
2.0
CONTROL MEMORY
SIZE D
CODE IDENT NO
DRAWING NO
SCALE NONE
SHEET 5 OF 142



SIZE	CODE IDENT NO	DRAWING NO	REV
D		6021106-05	
SCALE NONE	WORK ORDER NO	SHEET 7 OF 7	



SIZE	CODE IDENT NO	DRAWING NO	REV
D		2021160-05	H
SCALE NONE	WORK ORDER NO	SHEET — OF 19	



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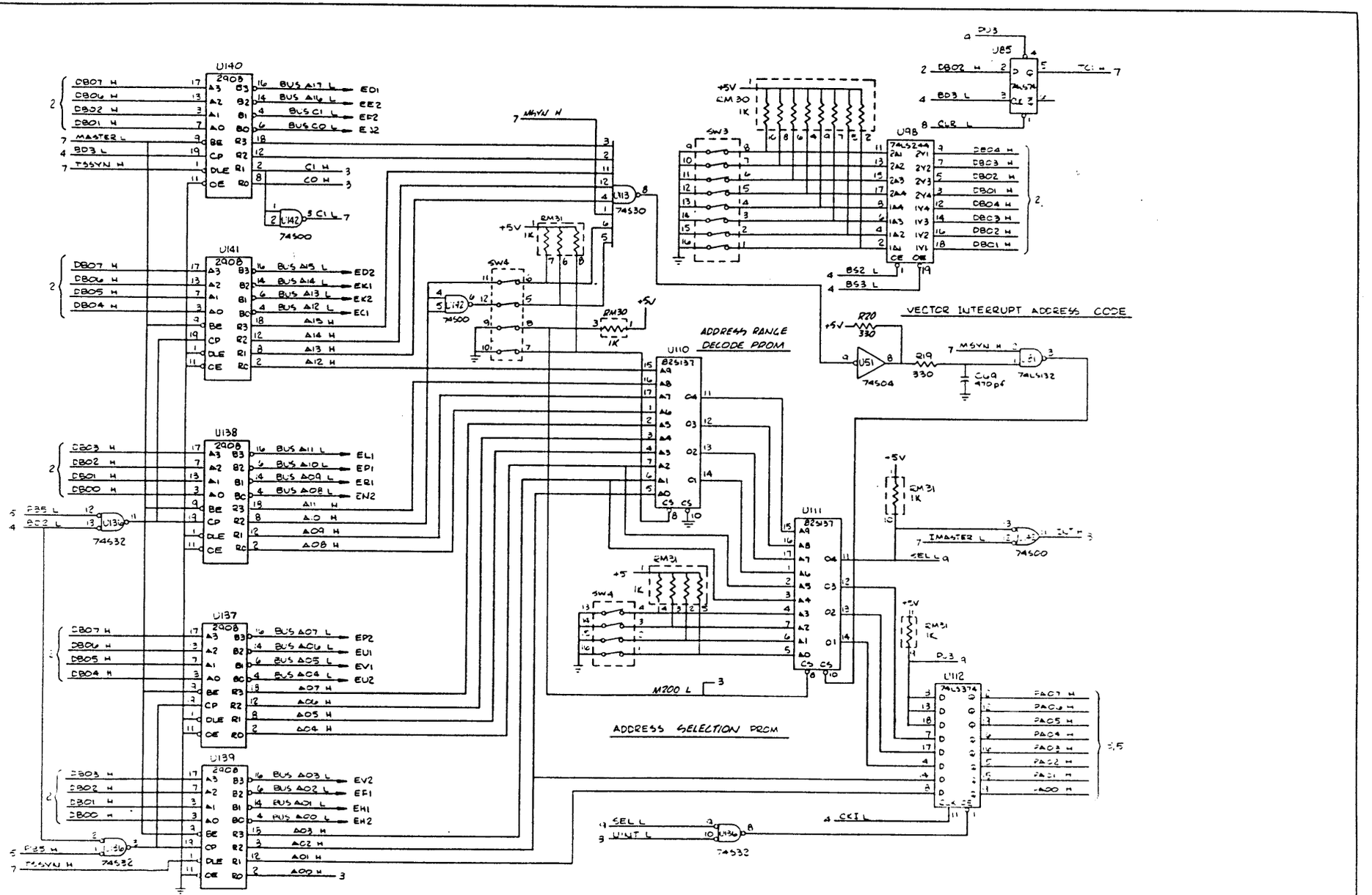
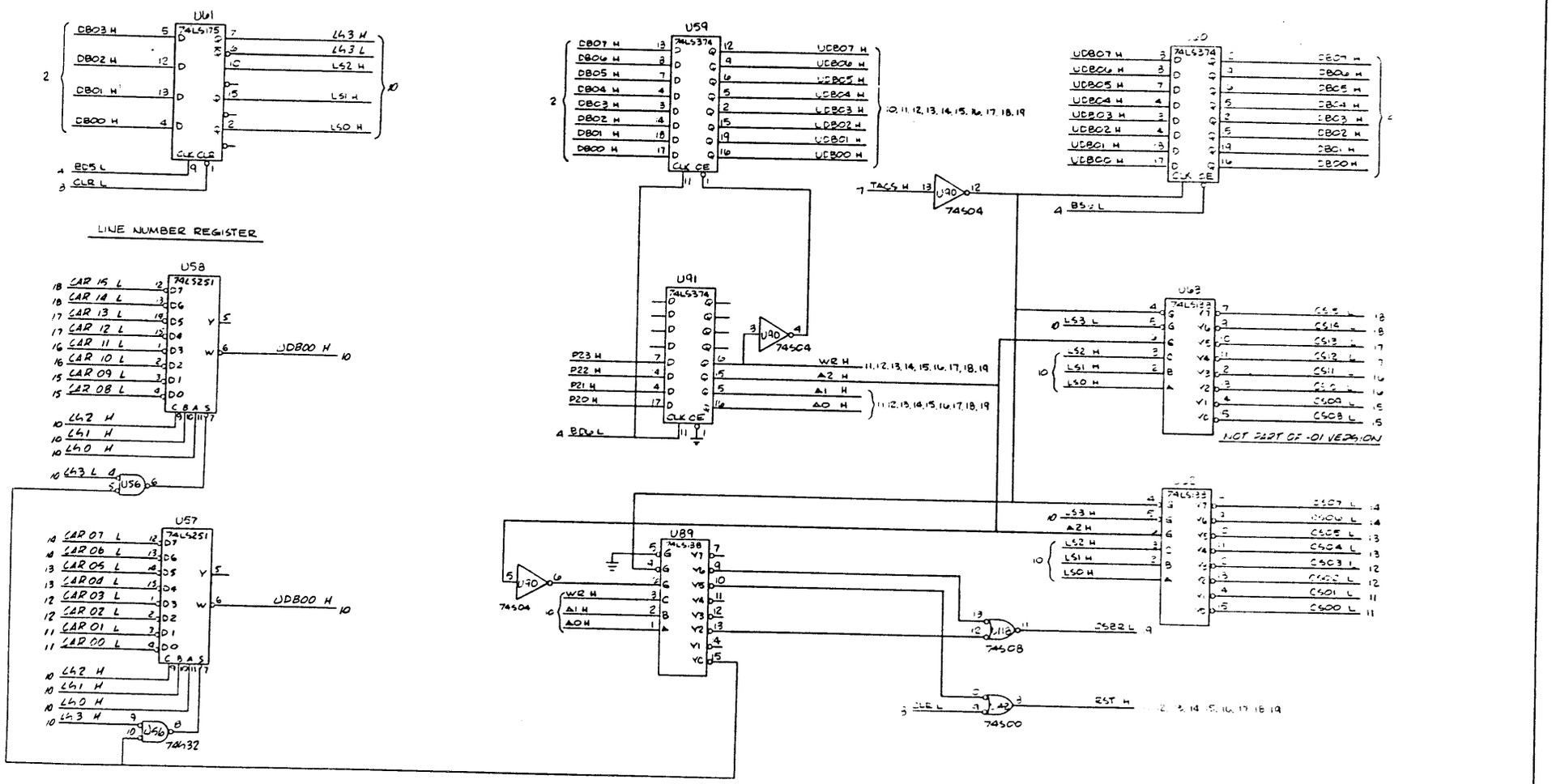
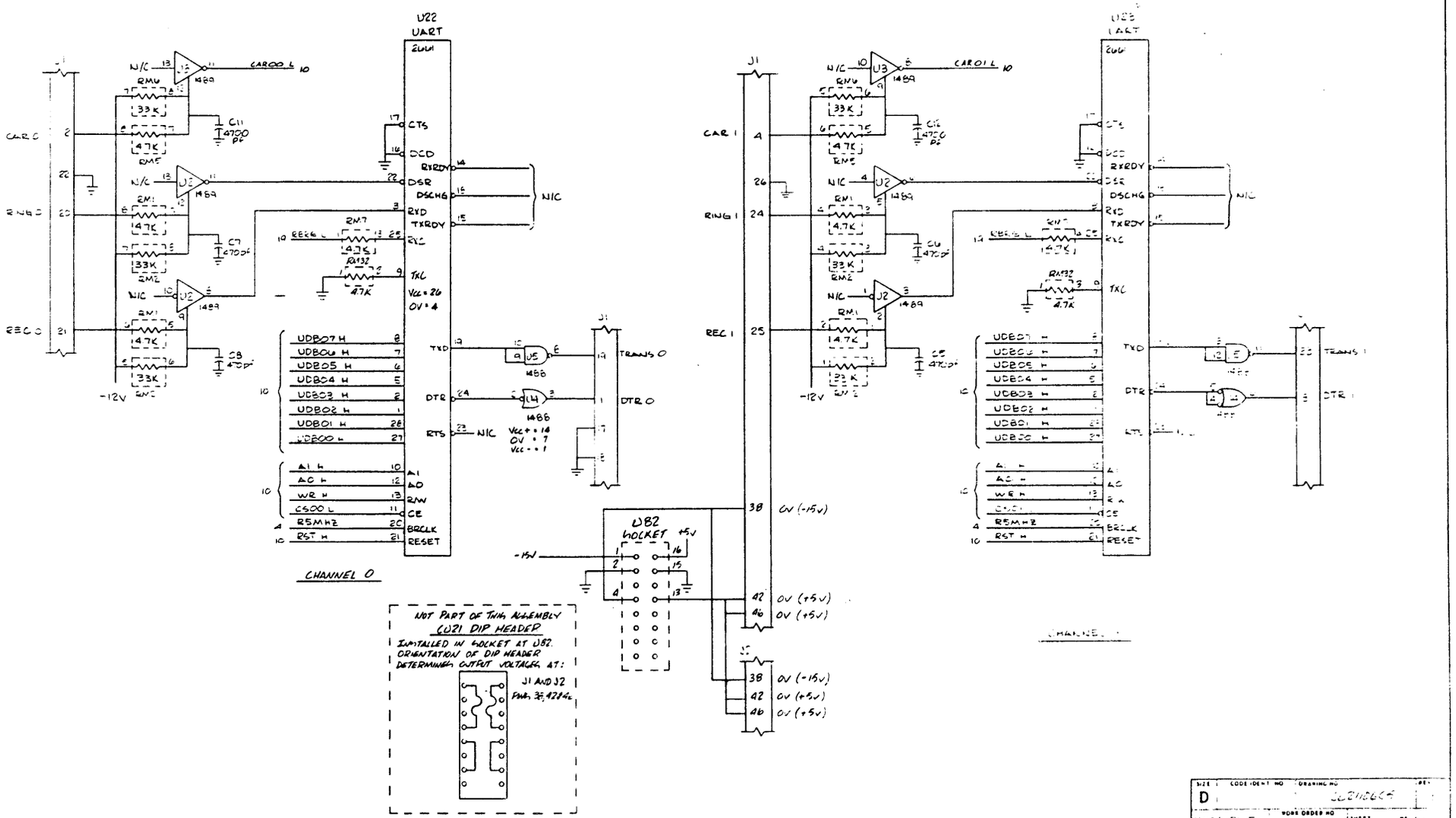
D		502110605	
SCALE NONE		SHEET 8 OF 1	

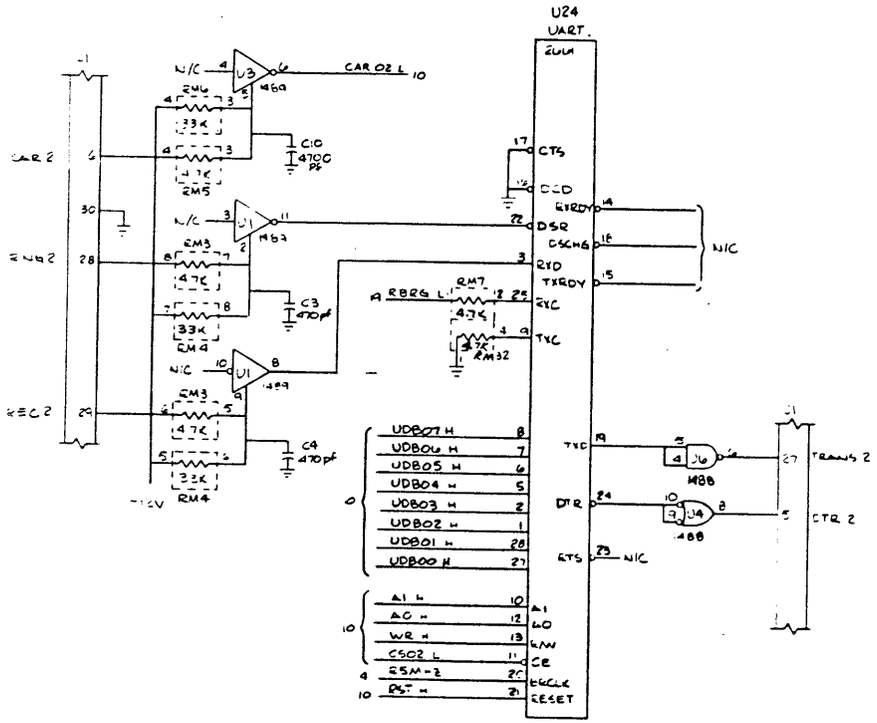


SIZE	CODE IDENT NO	DRAWING NO	REV
D		1270605	E
SCALE NONE	WORK ORDER NO	SHEET 1 OF 1	

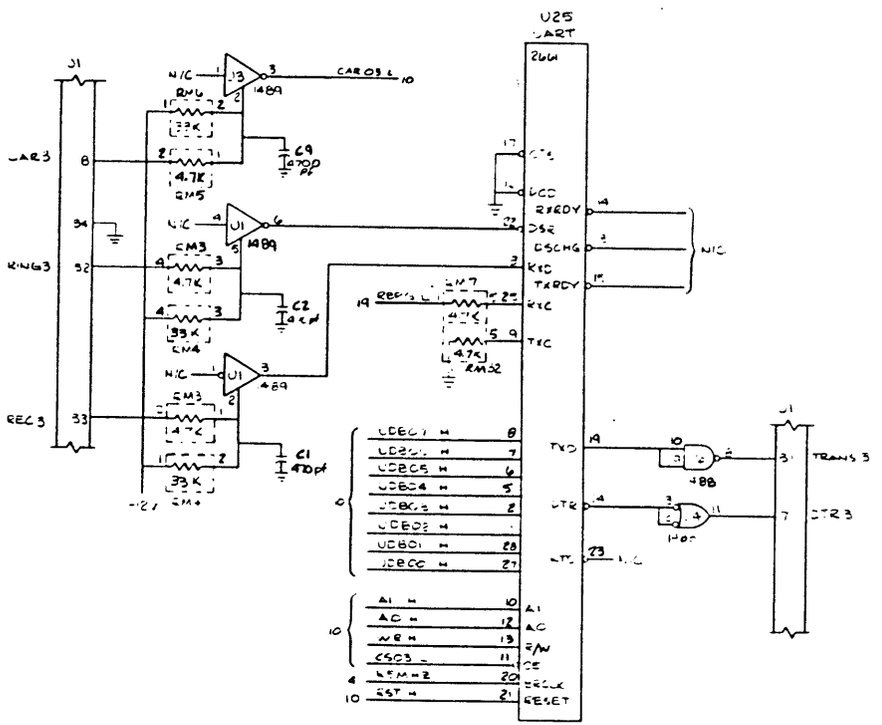


SIZE	CODE IDENT NO	DRAWING NO	REV
D		1E10605	
SCALE	WORK ORDER NO	SHEET	OF


U22
UART
2661
CTS
DCD
DSR
DSCHG
RXD
TXRDY
RXC
TXC
Vcc = 26
0V = 4
TXD
DTR
RTS
UDB07 H
UDB06 H
UDB05 H
UDB04 H
UDB03 H
UDB02 H
UDB01 H
UDB00 H
A1 H
A0 H
WR H
CS00 L
RSMHZ
RST H
A1
A0
R/W
CE
BRCLK
RESET
RXRDY
CAR00 L
CAR01 L
CAR 0
CAR 1
RING 0
RING 1
REC 0
REC 1
J1
J2
J3
U82
SOCKET
+5V
-5V
0V (-15V)
0V (+5V)
TRANS 0
DTR 0
TRANS 1
DTR 1
1488
1489
N/C
-12V
CHANNEL 0
CHANNEL 1
NOT PART OF THIS ASSEMBLY
(021 DIP HEADER
INSTALLED IN SOCKET AT U82.
ORIENTATION OF DIP HEADER
DETERMINES OUTPUT VOLTAGES AT:
J1 AND J2
PINS 38, 42 & 46

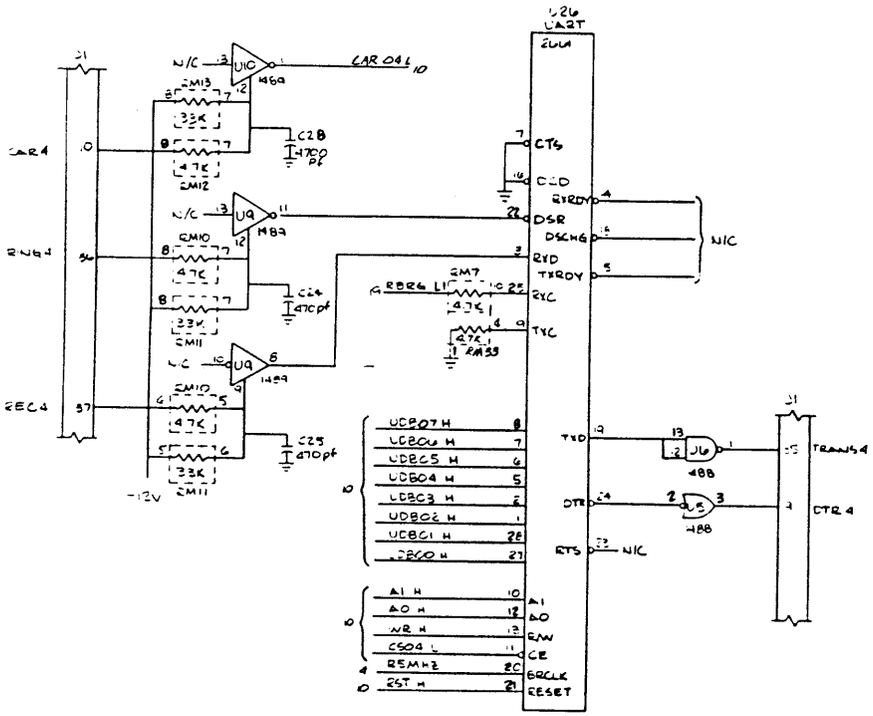


CHANNEL 2

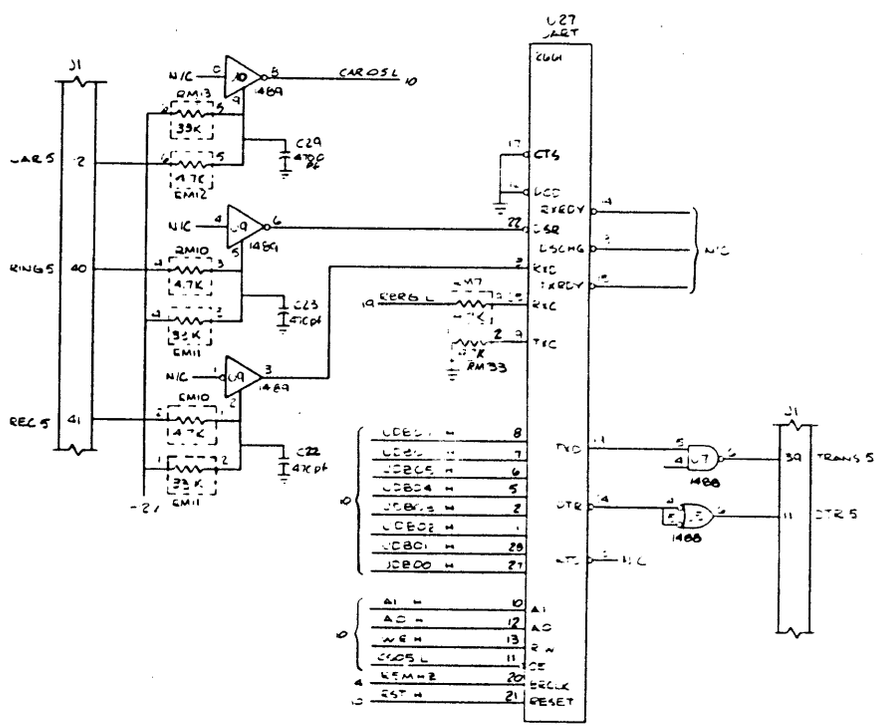


CHANNEL 3

SIZE	CODE IDENT NO	DRAWING NO	REV
D		[illegible]	B
SCALE NONE	PURCHASE ORDER NO	SHEET [illegible] OF [illegible]	

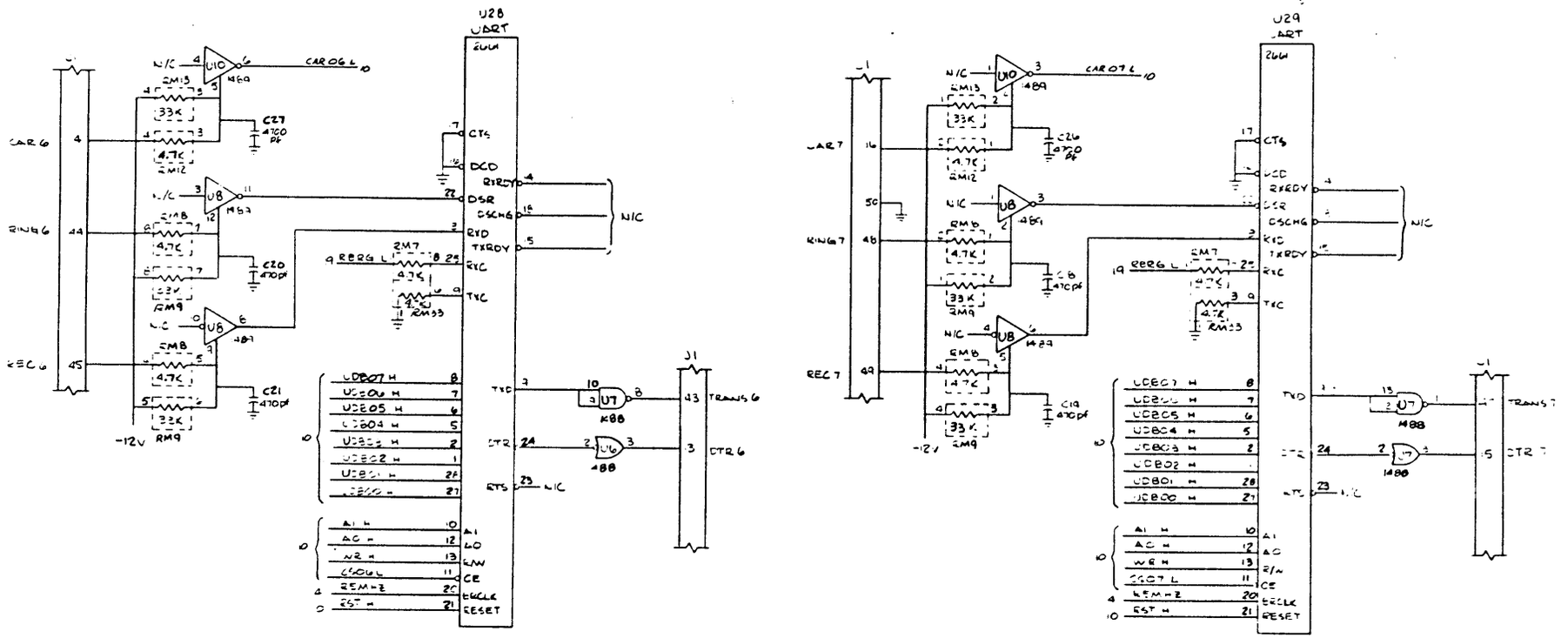


CHANNEL 4

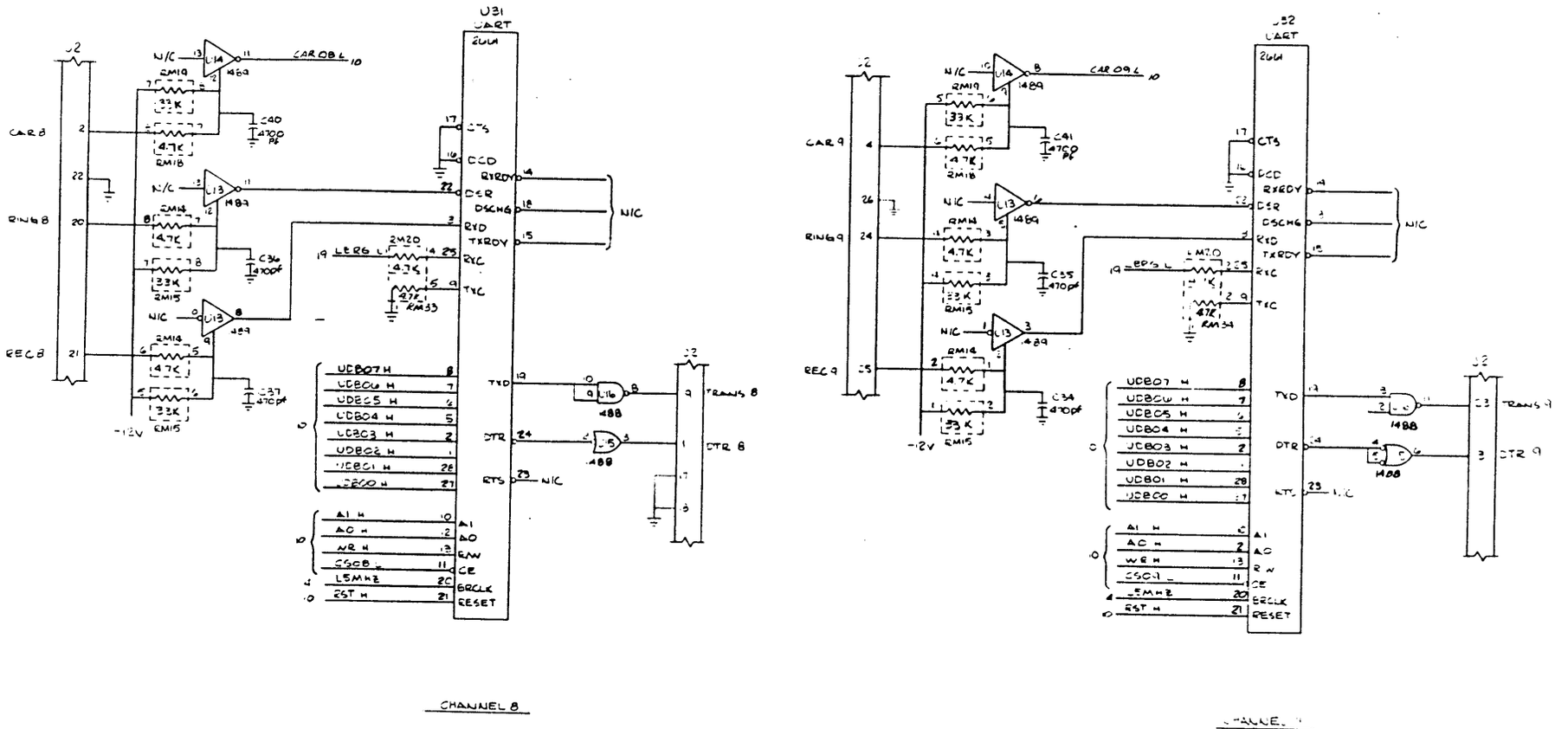


CHANNEL 5

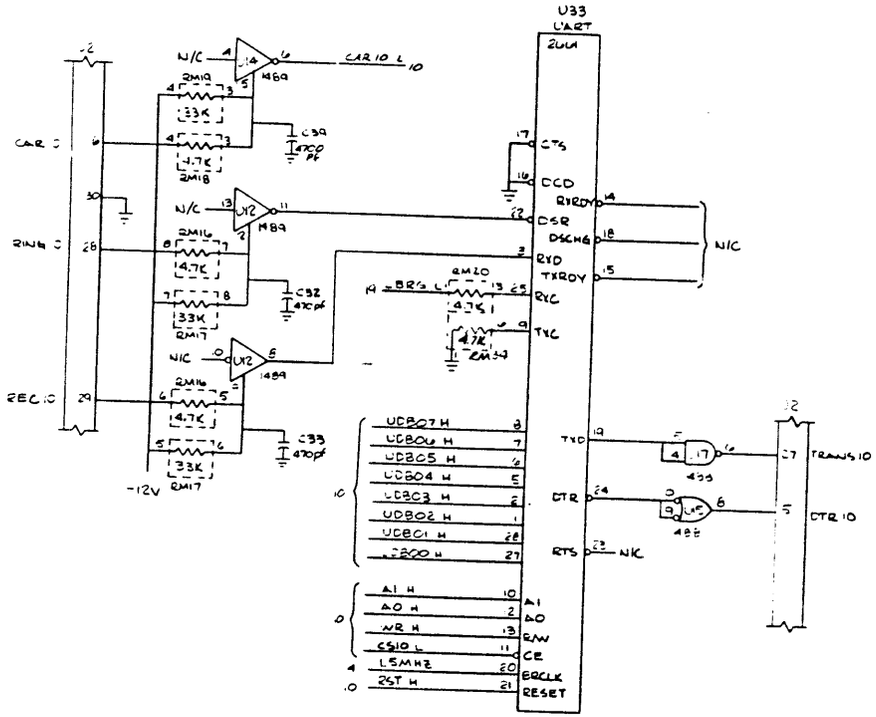
SIZE	CODE IDENT NO	DRAWING NO	REV
D		CC211CGC5	E
SCALE NONE	WORK ORDER NO	SHEET 3 OF 9	

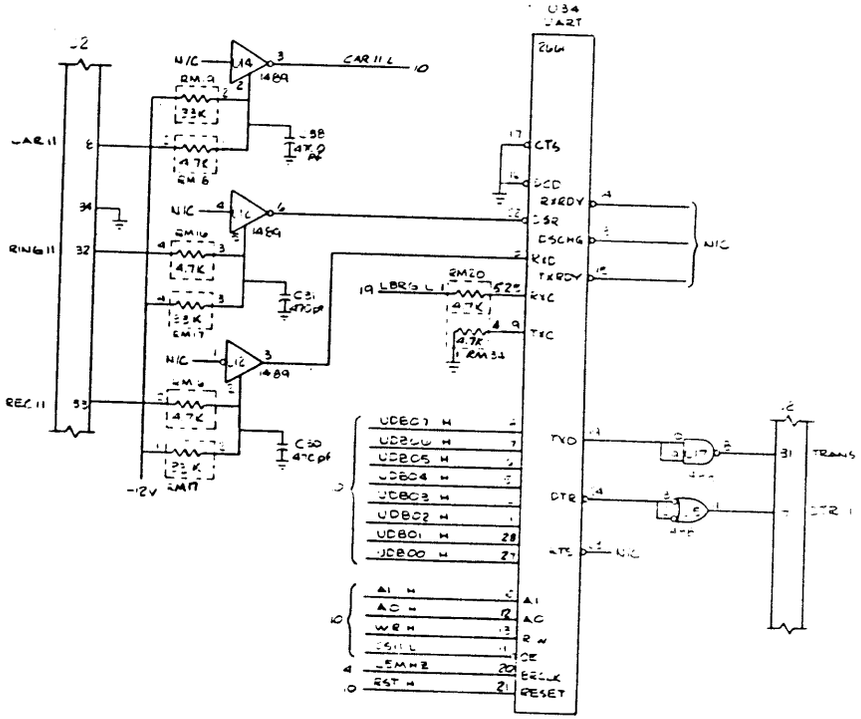


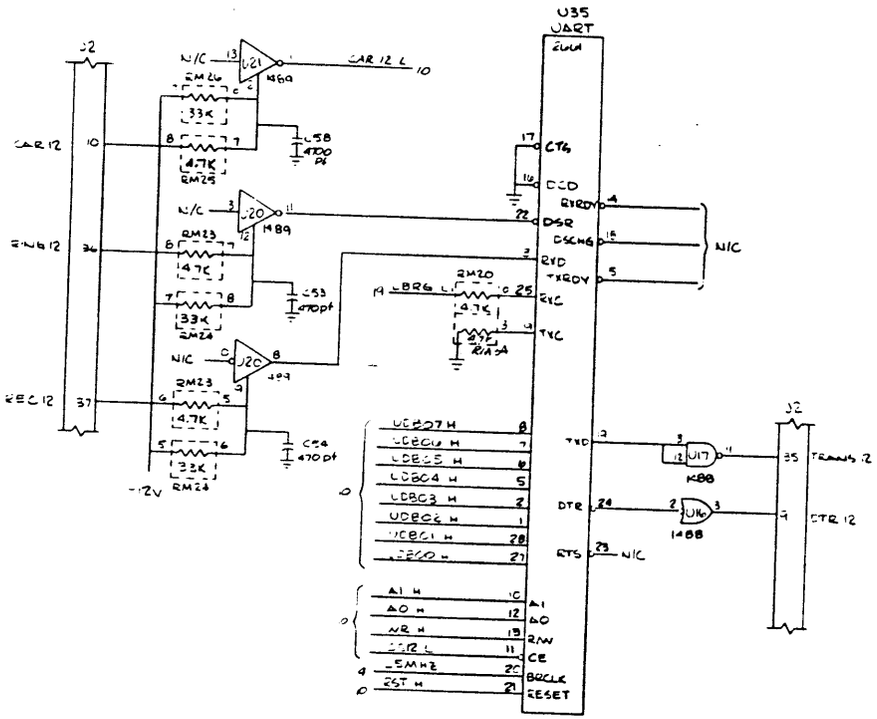
SIZE	CODE IDENT NO	DRAWING NO	REV
D		CC211C665	
SCALE NONE		WORK ORDER NO	SHEET 4 OF 11



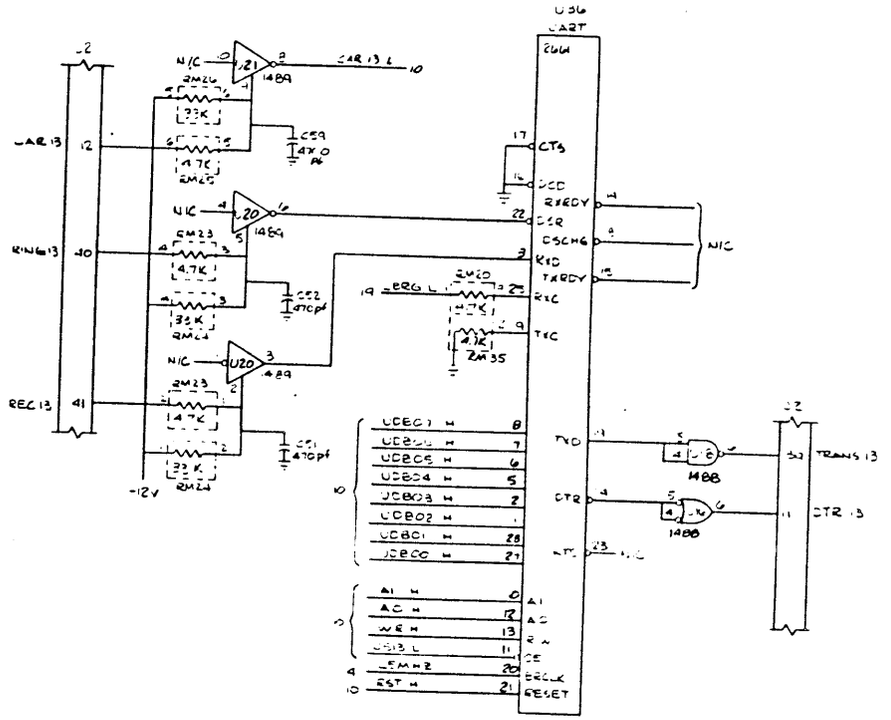
SIZE	CODE IDENT NO	DRAWING NO	REV
D		CC211C605	E
SCALE NONE		PO# ORDER NO	SHEET 5 OF 19


U33
UART
2661
J2
CAR 10 L
RING 10
REC 10
-12V
TRANS 10
DTR 10
N/C
CHANNEL 10


U34
UART
2661
J2
CAR 11 L
RING 11
REC 11
-12V
N/C
CHANNEL 11

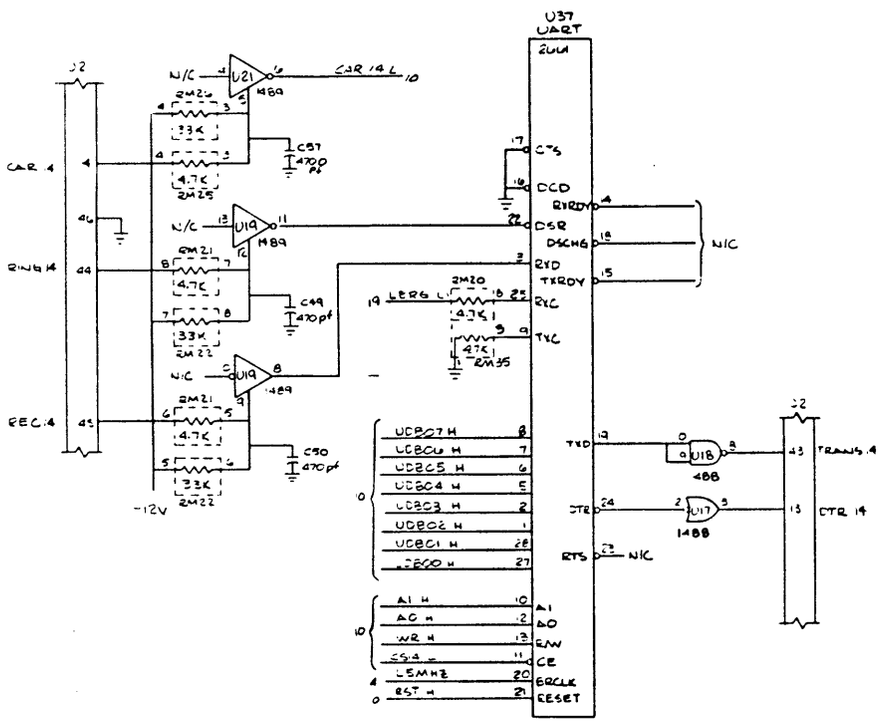


CHANNEL 12



CHANNEL 13

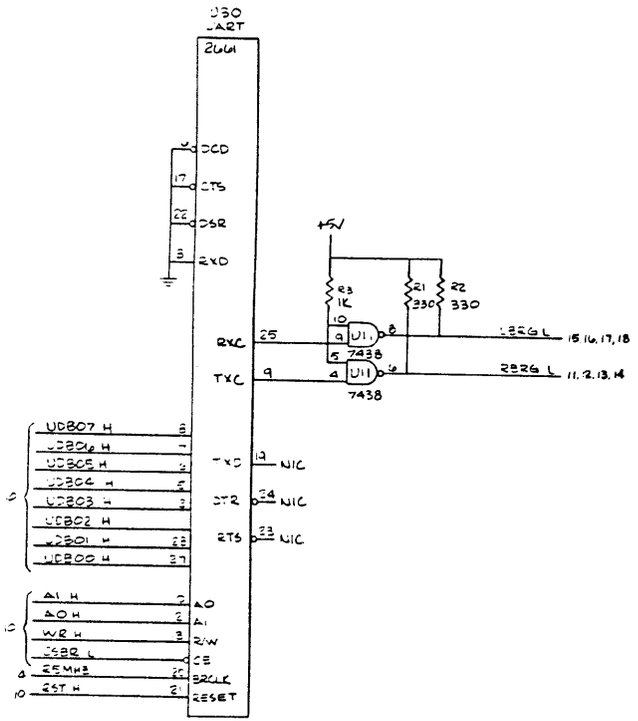
SIZE	CODE IDENT NO	DRAWING NO	REV.
D		CU211C605	B
SCALE NONE	WORK ORDER NO	SHEET 7 OF 5	



CHANAEL A

CHANAEL B

SIZE	CODE IDENT NO	DRAWING NO	REV
D		21C605	
SCALE NONE		SHEET 12 OF 19	



BAUD RATE GENERATOR

SIZE	CODE IDENT NO	DRAWING NO	REV
D		1021-8604	P
SCALE NONE		PO OR ORDER NO	SHEET 12 OF 17