

DICENTRA SCHEMATICS

Miscellaneous Board

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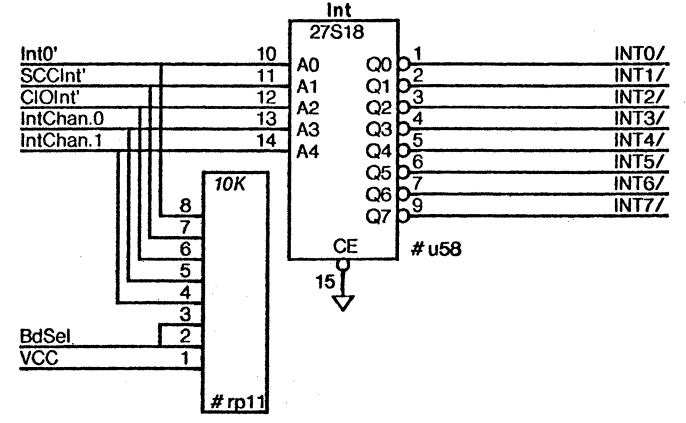
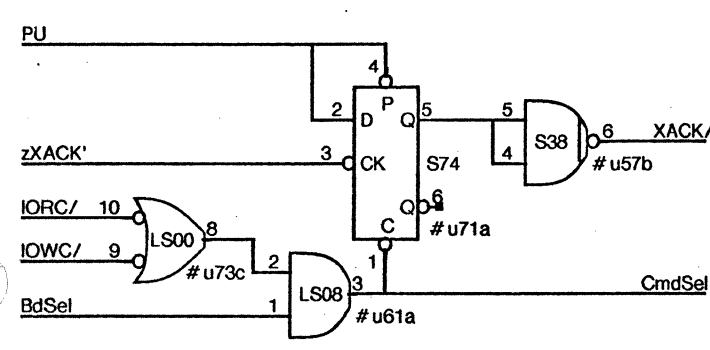
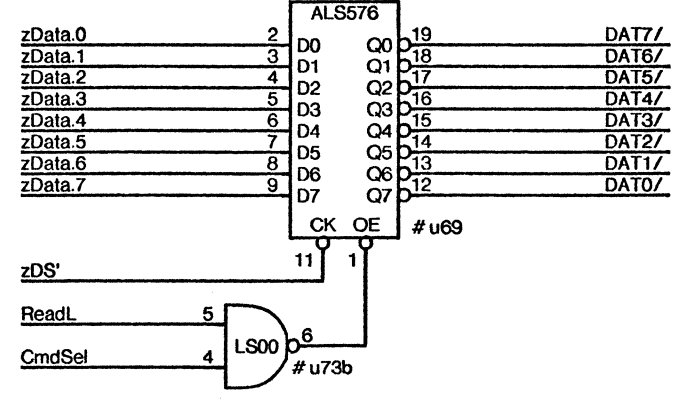
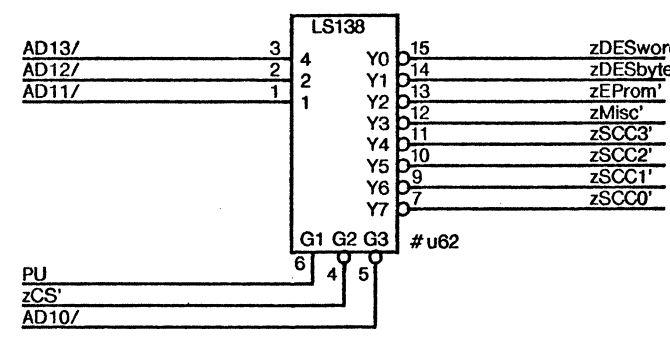
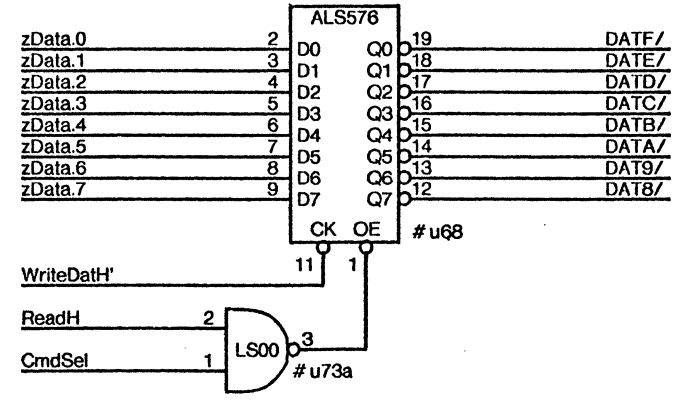
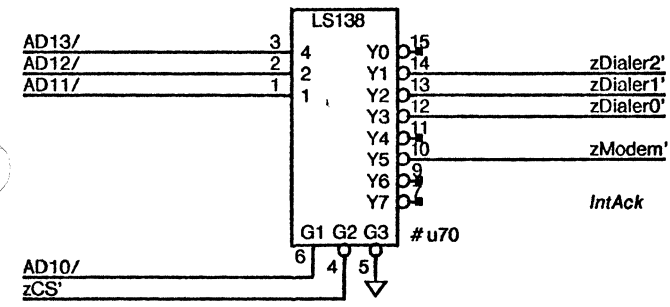
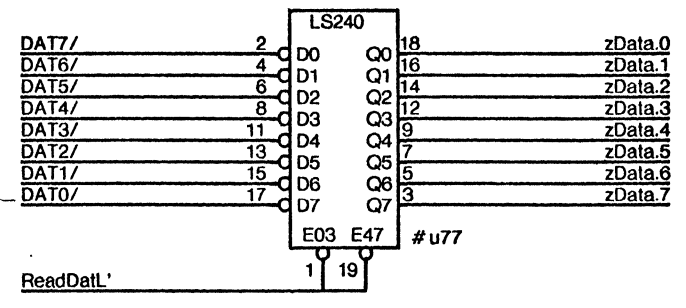
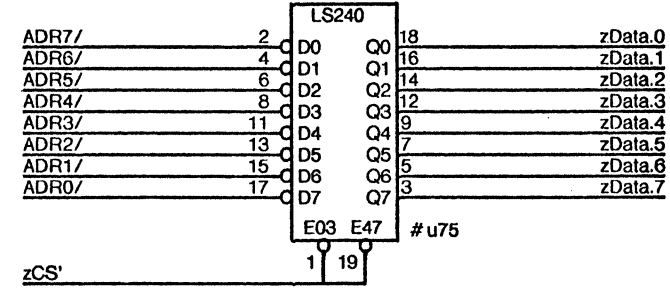
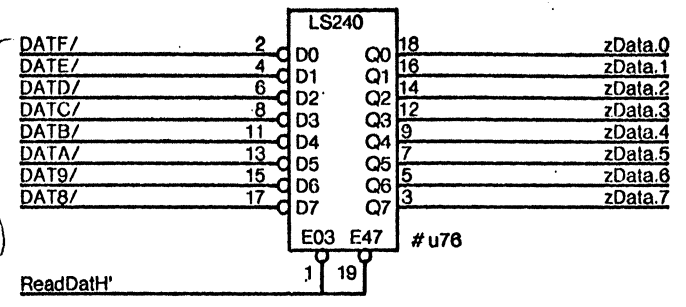
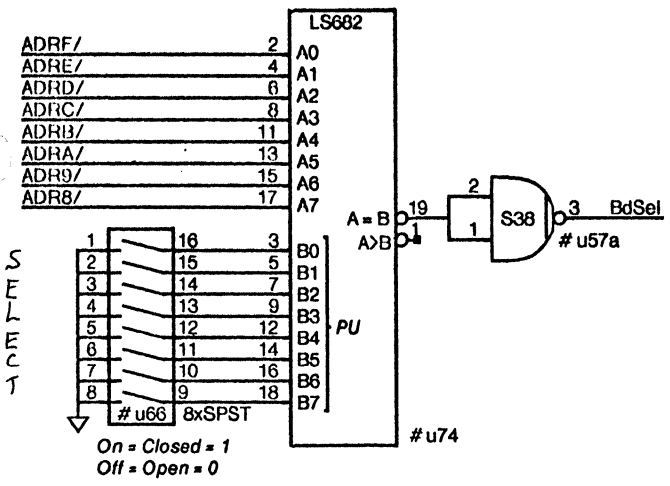
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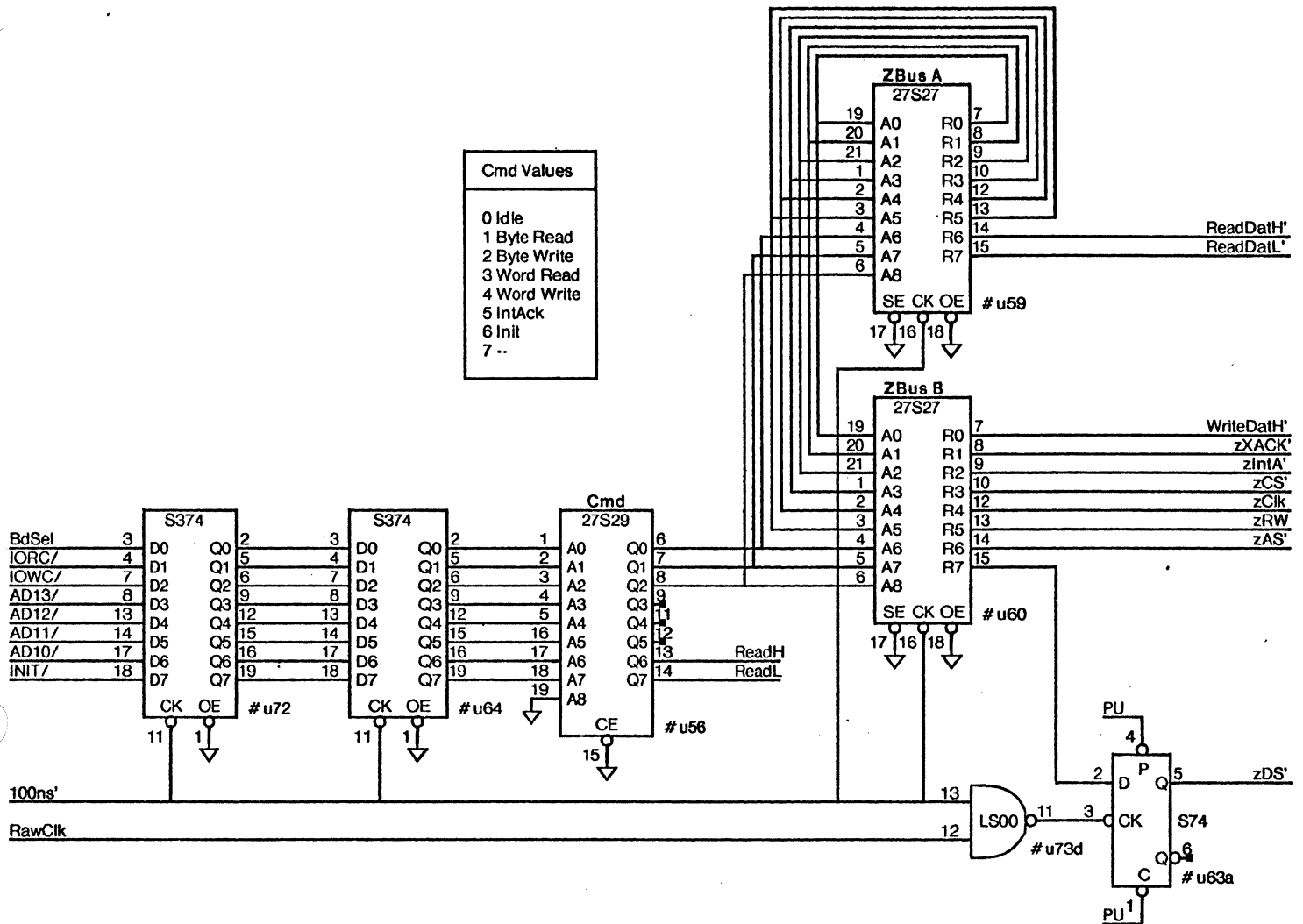
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8: Dicentra.lb8
A: Dicentra.Analyze
Y: 712

All files are kept on [Indigo]<Dicentra>

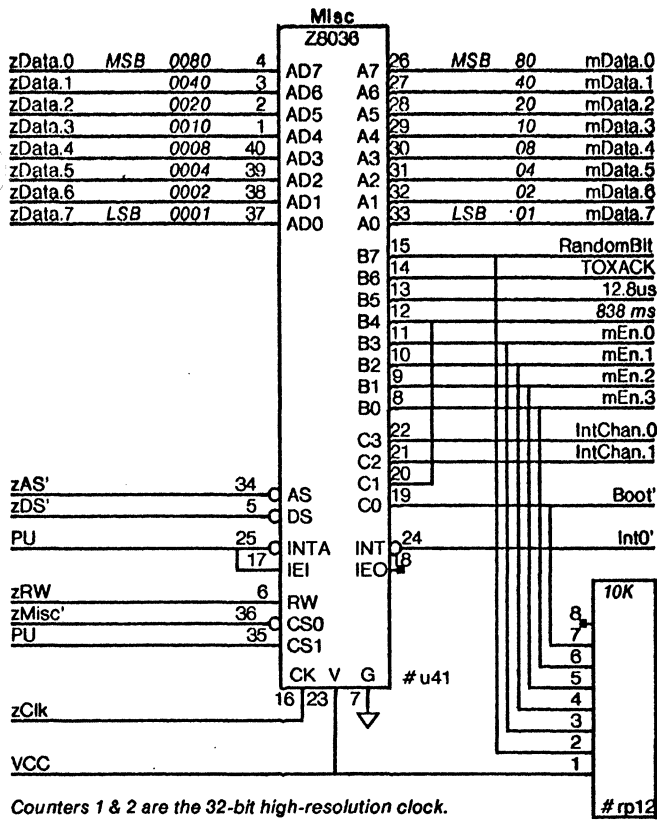
XEROX PARC	Project Dicentra	Reference Title Page	File DMisc-Rev-D.sil	Designer Boggs, Murray	Rev D	Date 3/29/85	Page 00
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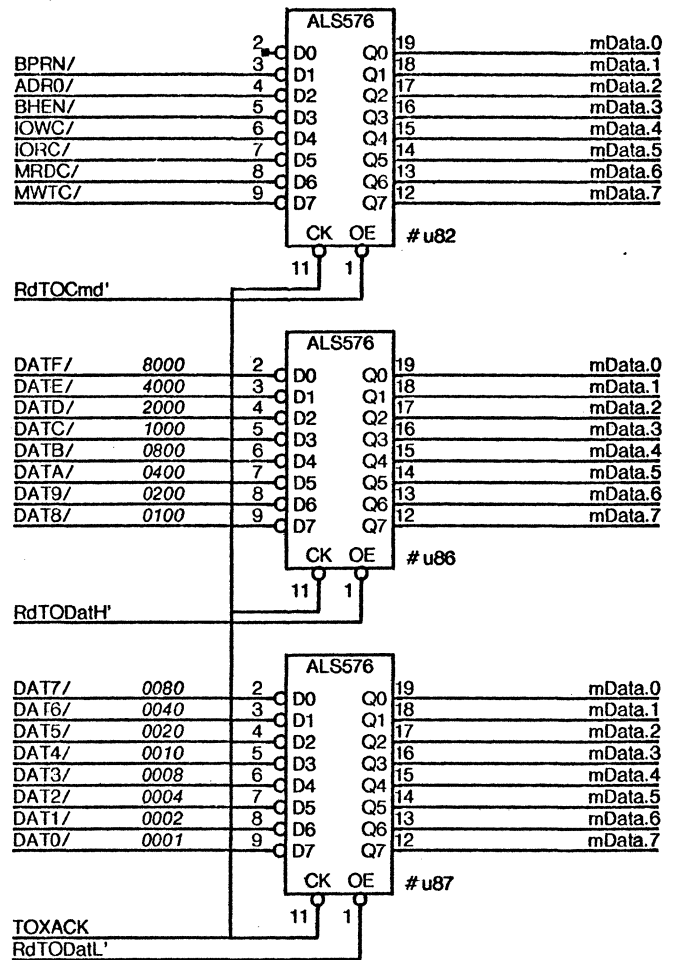
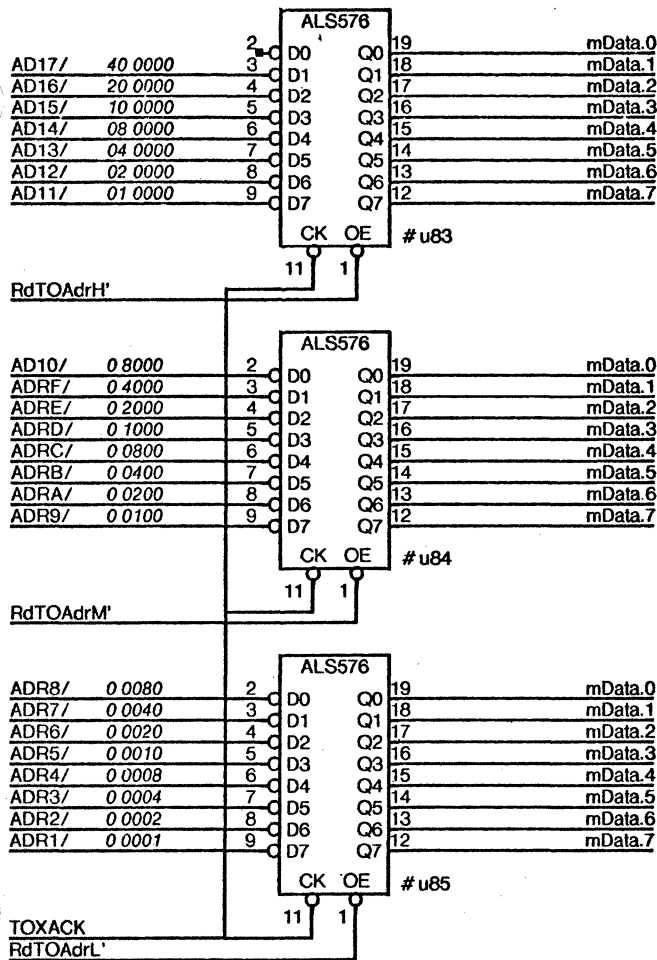
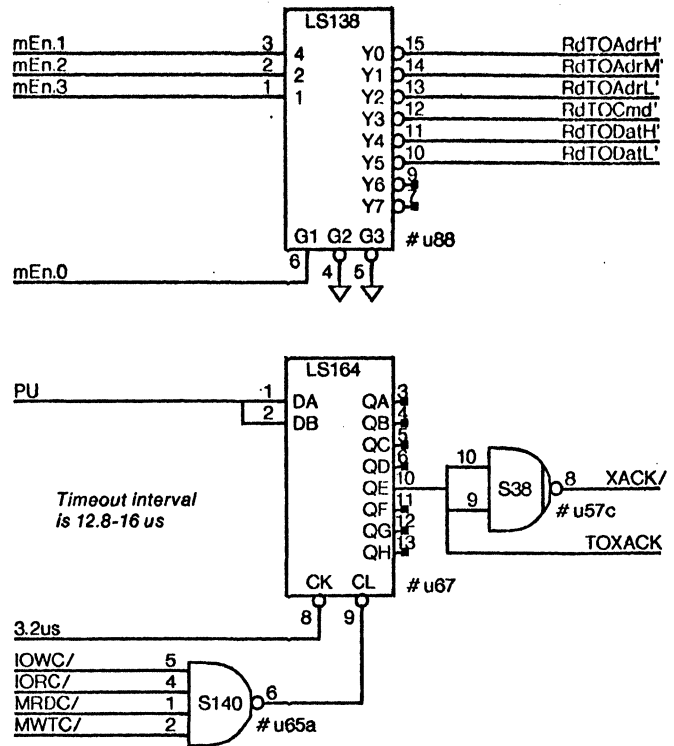


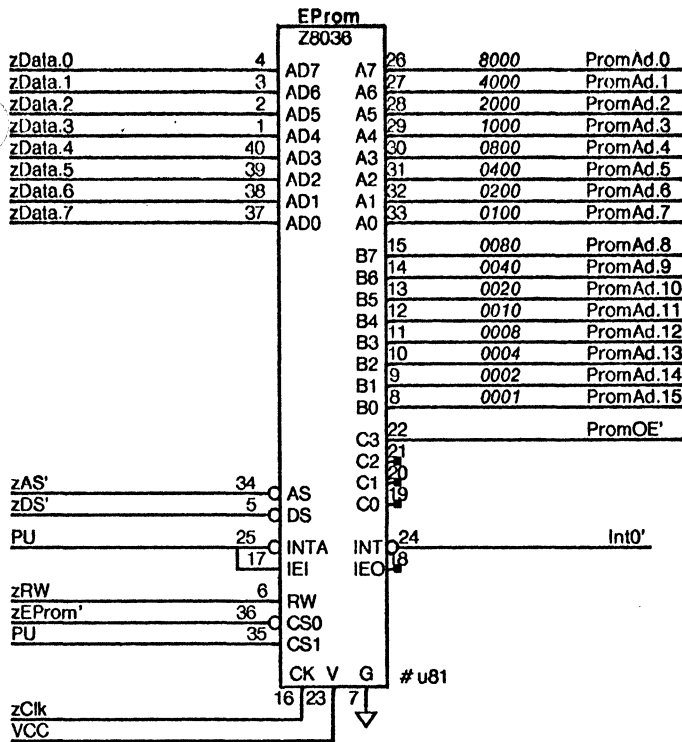
AD10 = 0			AD10 = 1		
AD11-13	ZBus device	Wd Adr	AD11-13	ZBus device	Wd Adr
0	IntAck	01000	0	SCC0	09000
1	—	—	1	SCC1	19000
2	Modem	21000	2	SCC2	29000
3	—	—	3	SCC3	39000
4	Dialer0	41000	4	Misc	49000
5	Dialer1	51000	5	EProm	59000
6	Dialer2	61000	6	DES byte	69000
7	—	—	7	DES word	79000

Word Addresses above are for normal switch settings.
 See DMisc16.sil for timing and state diagrams.
 Writing IntAck or referencing a nonexistent ZBus device
 causes a Multibus timeout.

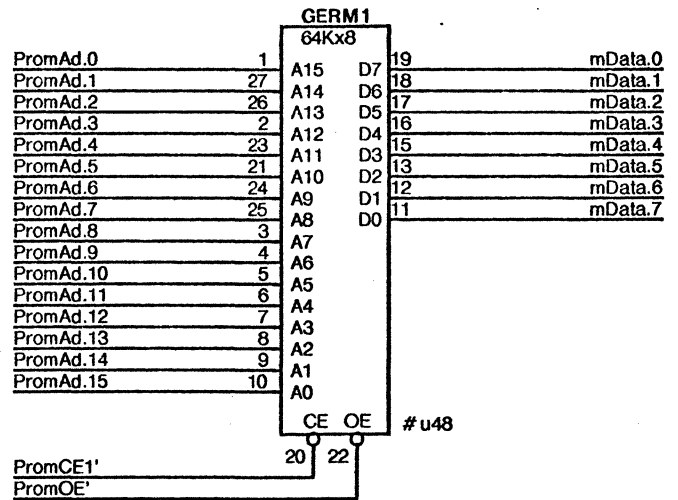
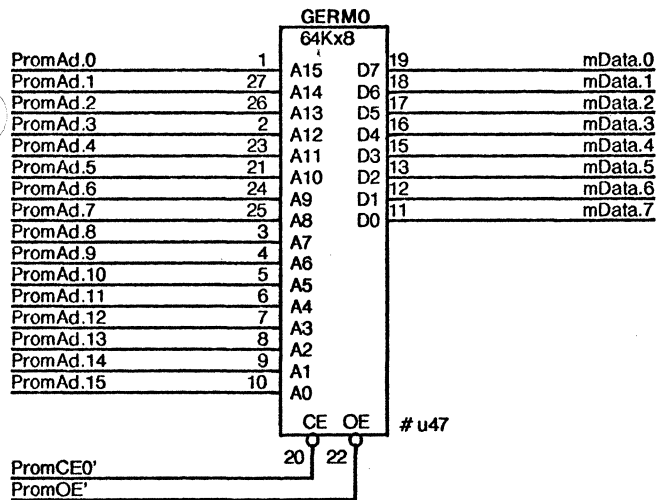
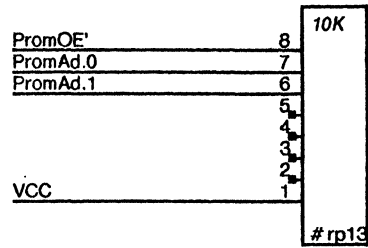
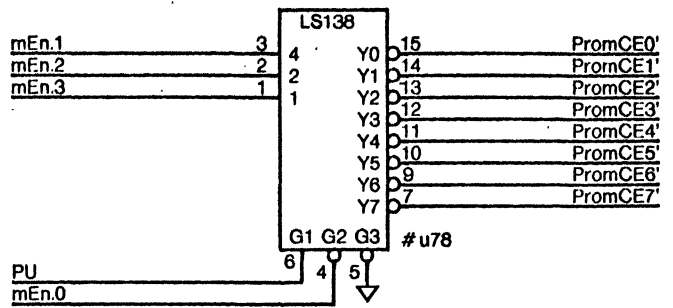


Counters 1 & 2 are the 32-bit high-resolution clock.
Counters 1 & 3 are the watchdog timer.



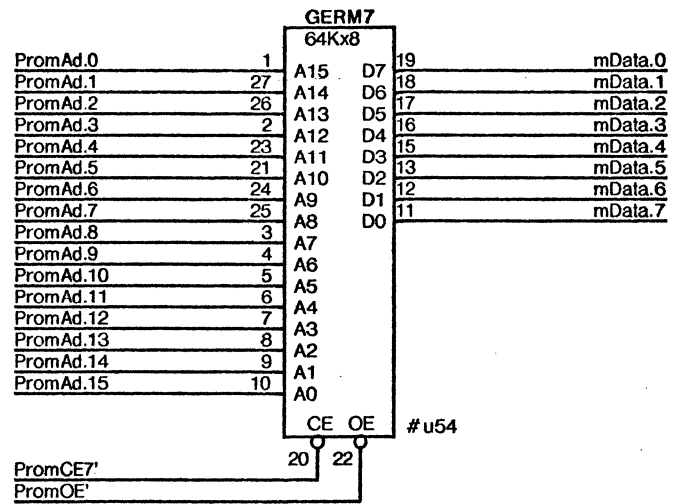
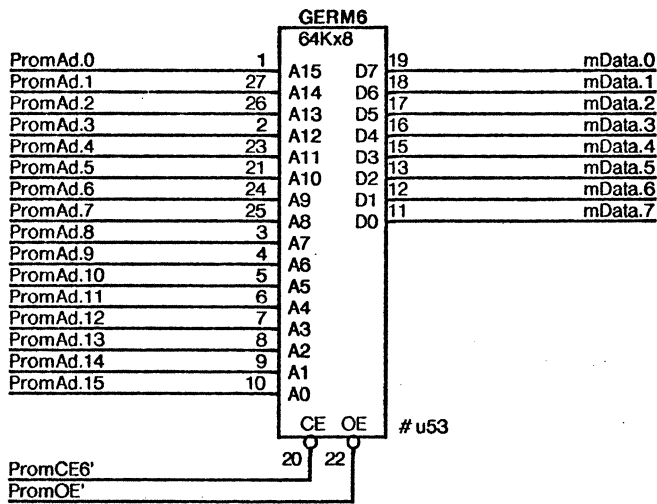
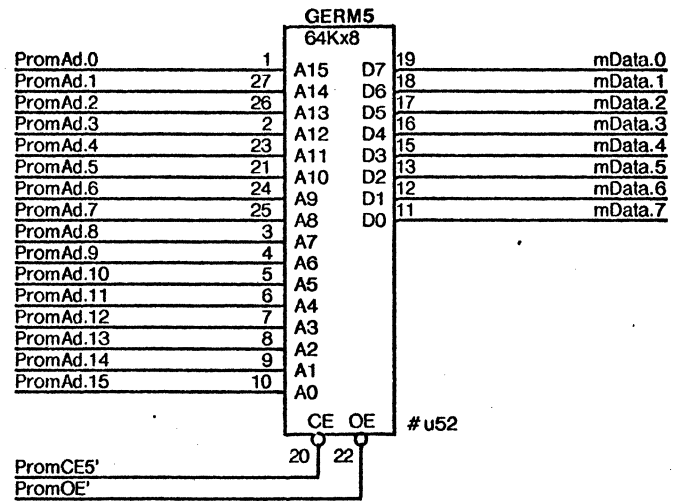
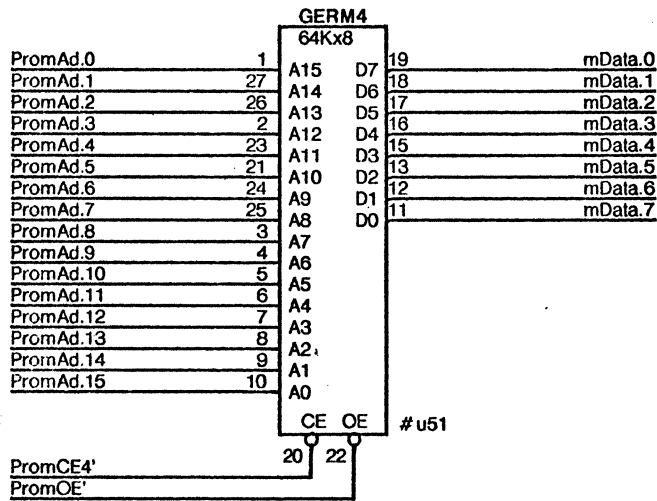
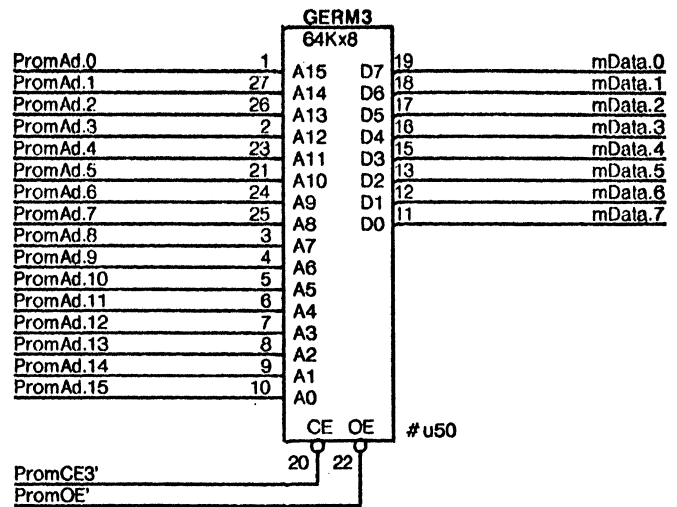
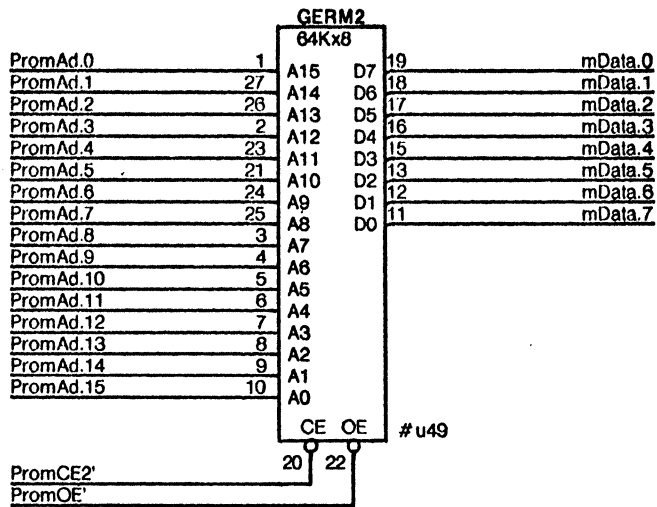


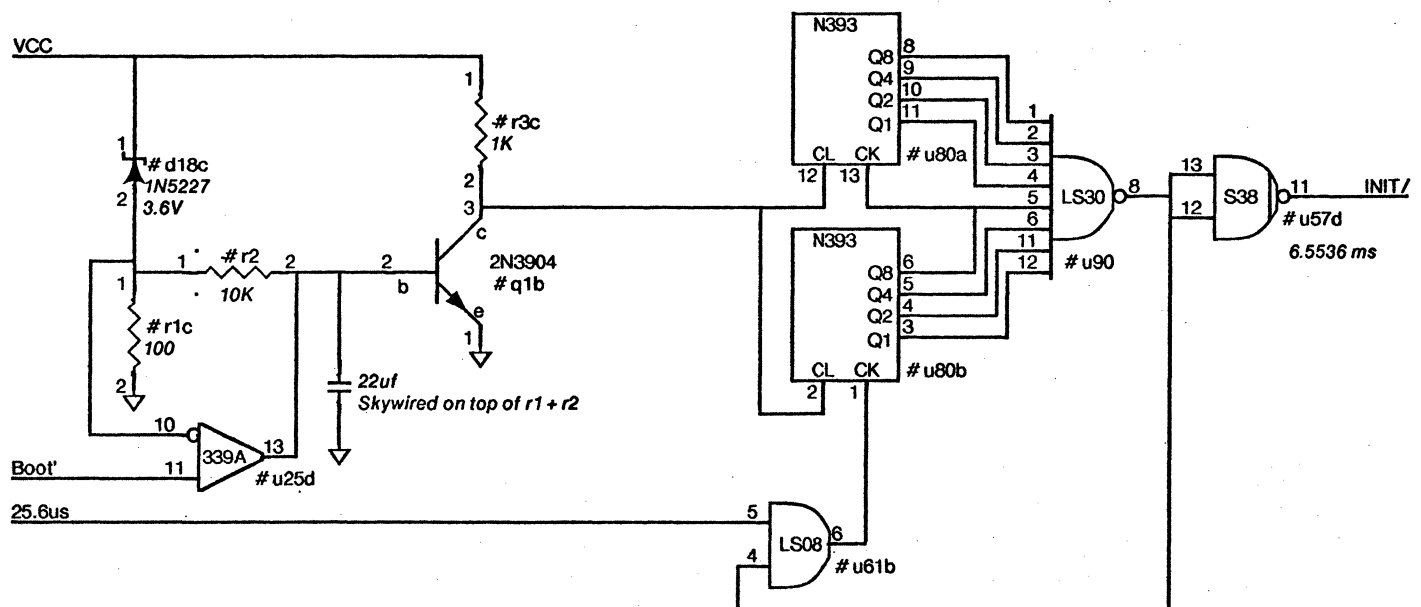
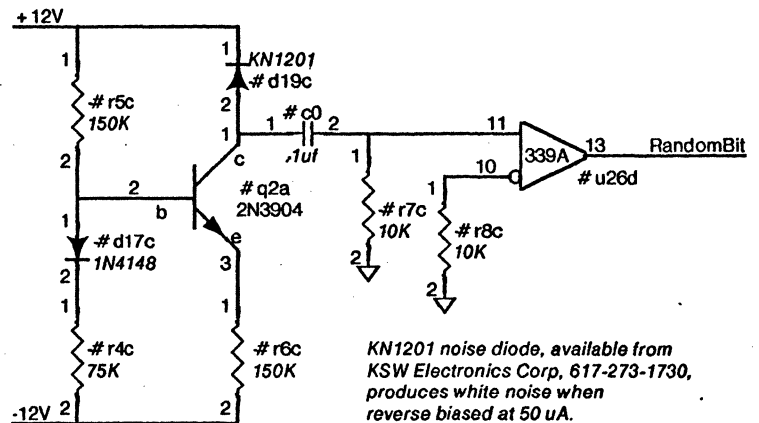
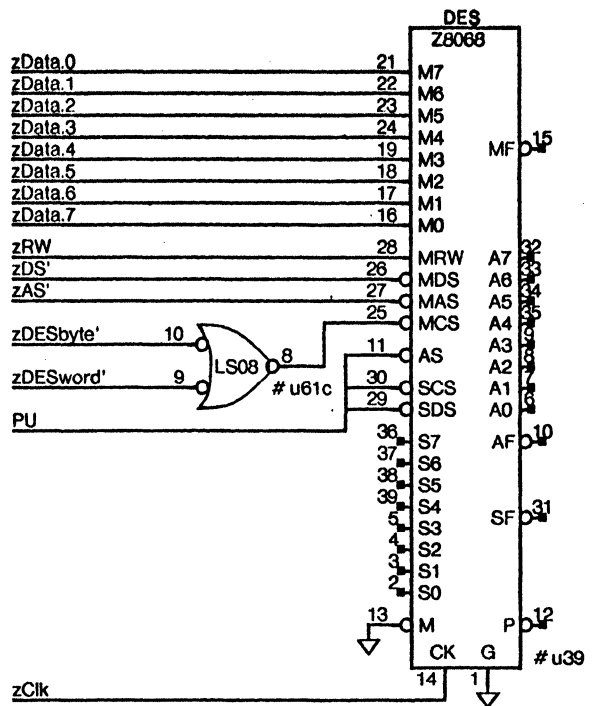
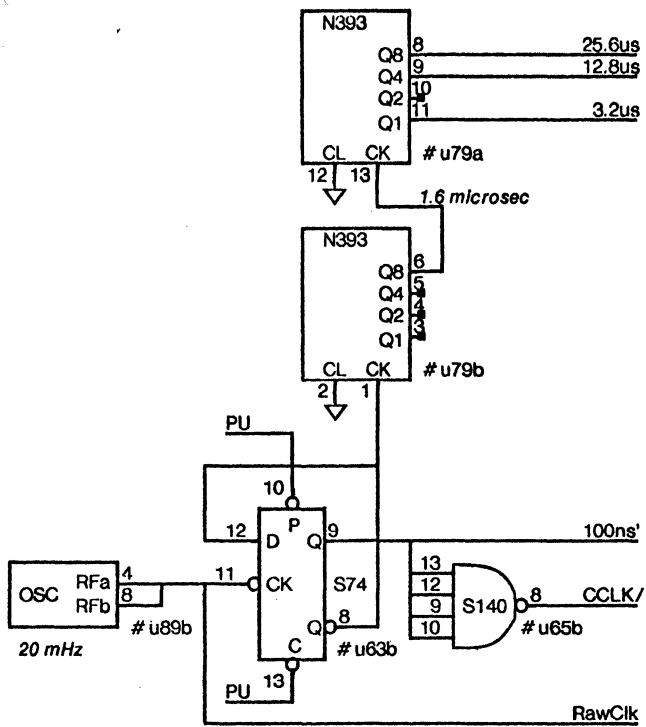
The process clock is in here.

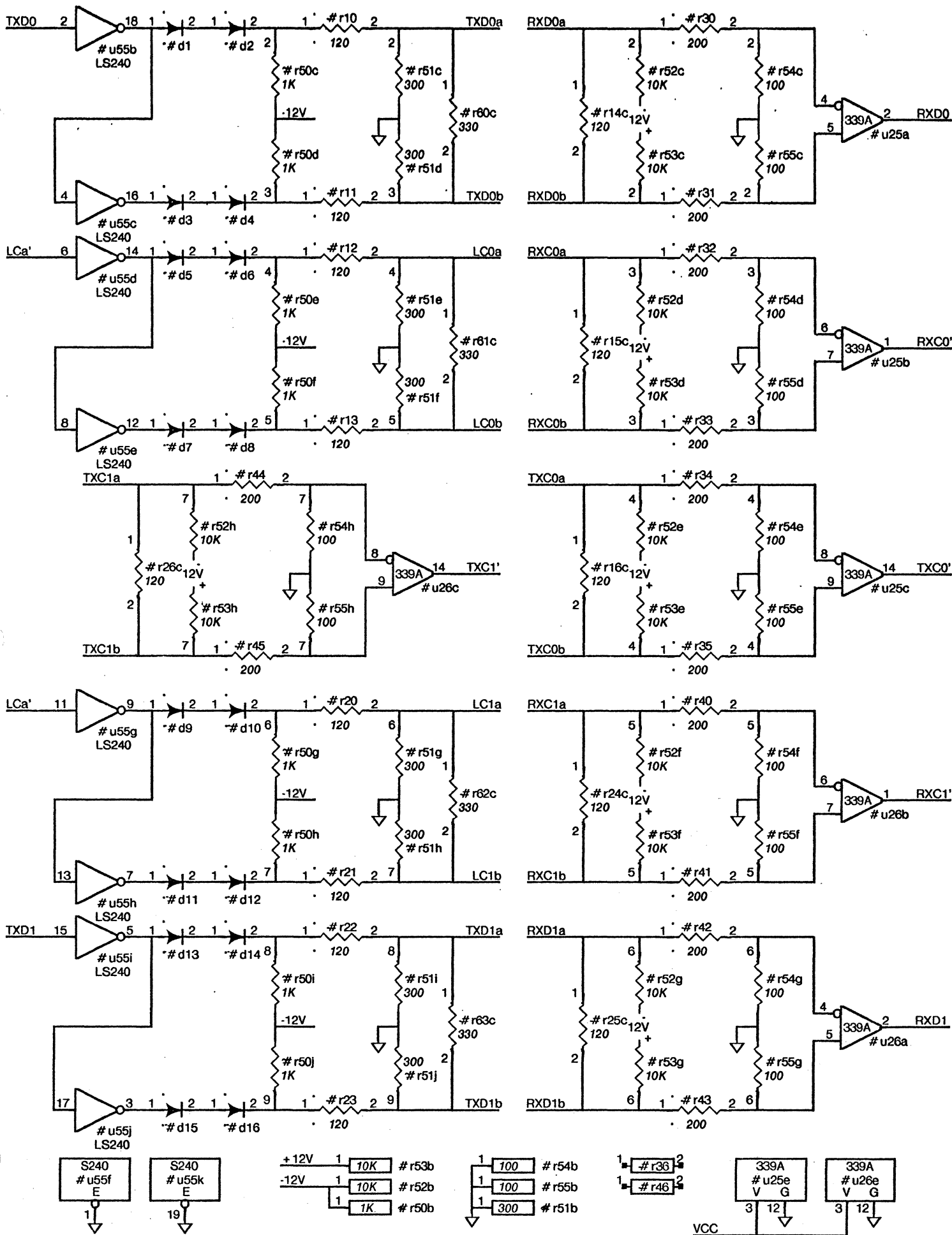


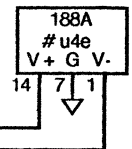
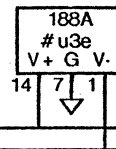
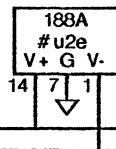
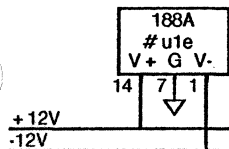
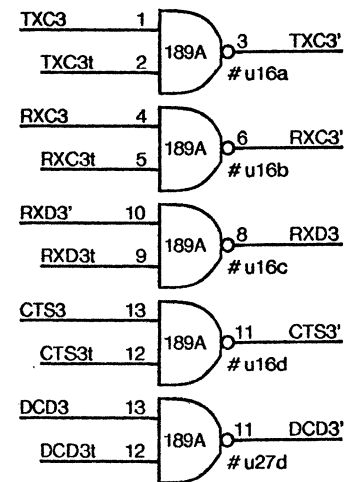
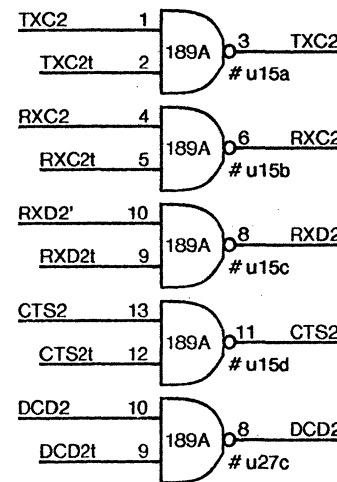
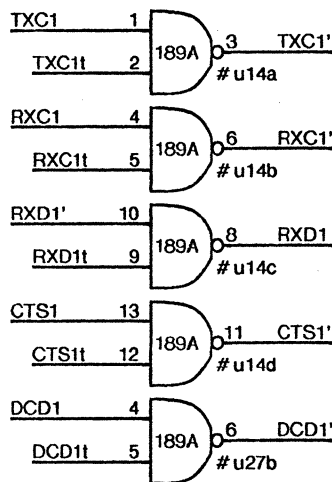
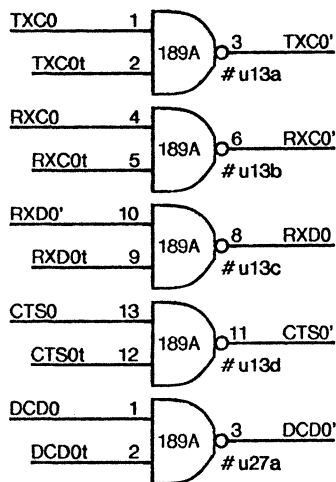
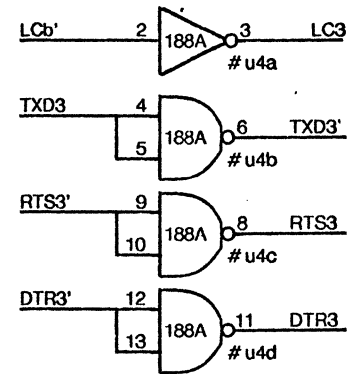
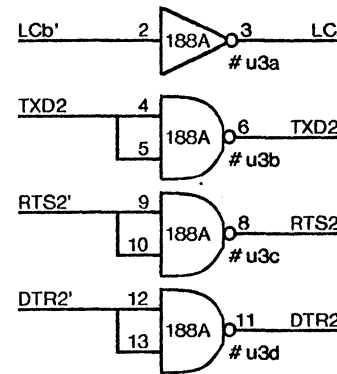
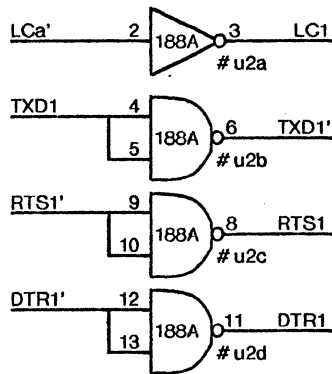
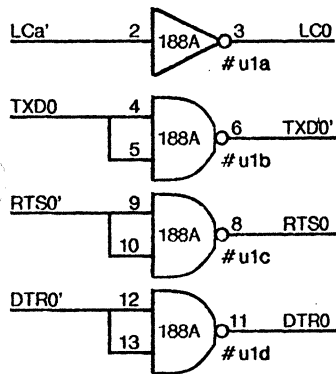
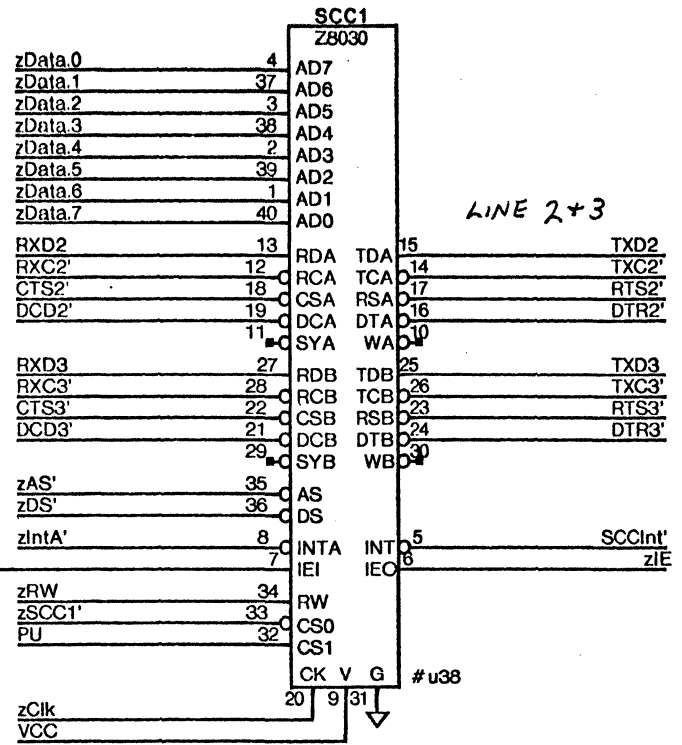
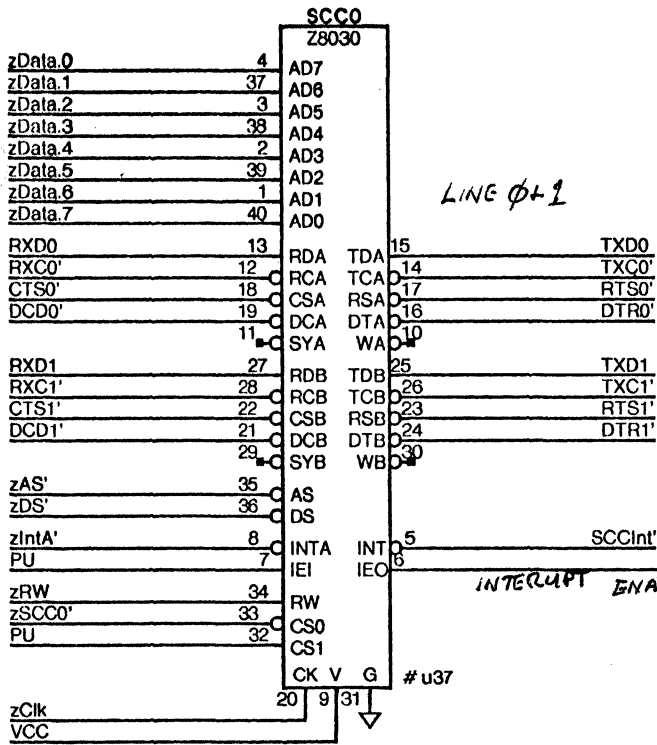
Pin	PromAd	27512	27256	27128	2764	2816
1	0	A15	VPP	VPP	VPP	
27	1	A14	A14	PGM'	PGM'	
26	2	A13	A13	A13	n.c.	VCC
2	3	A12	A12	A12	A12	
23	4	A11	A11	A11	A11	PGM'

VPP & PGM' must be high except when writing an EEPROM.
To write an EEPROM, hold PromOE' high and pulse low the starred signal.

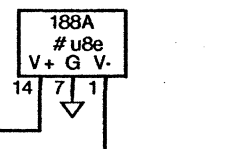
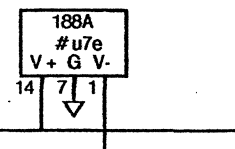
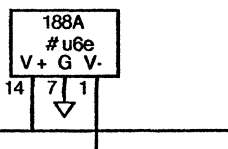
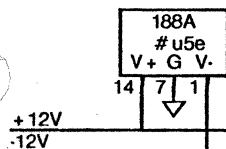
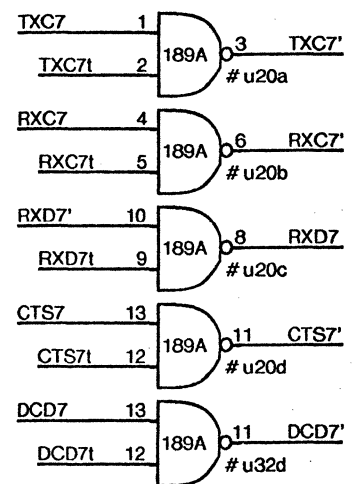
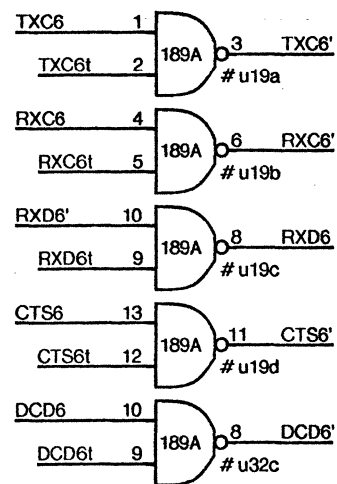
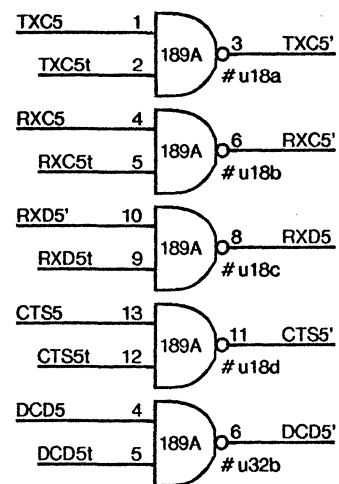
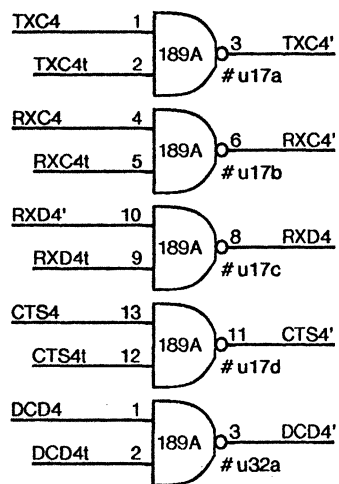
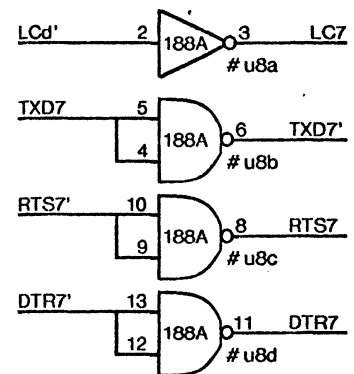
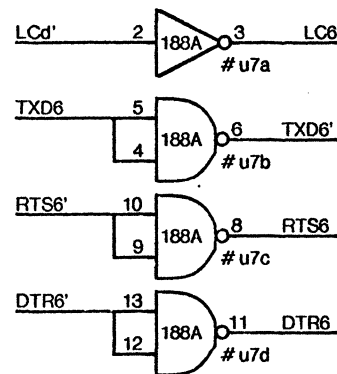
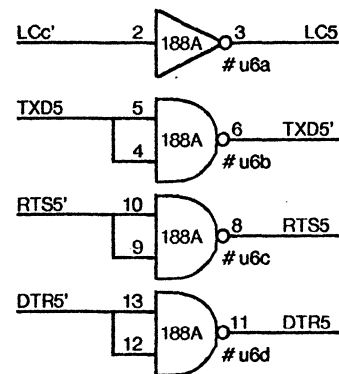
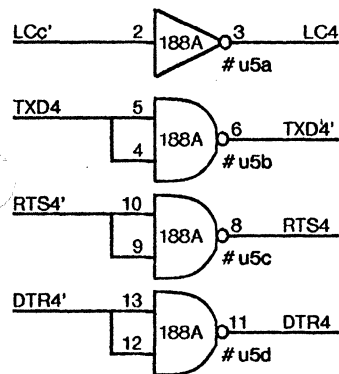
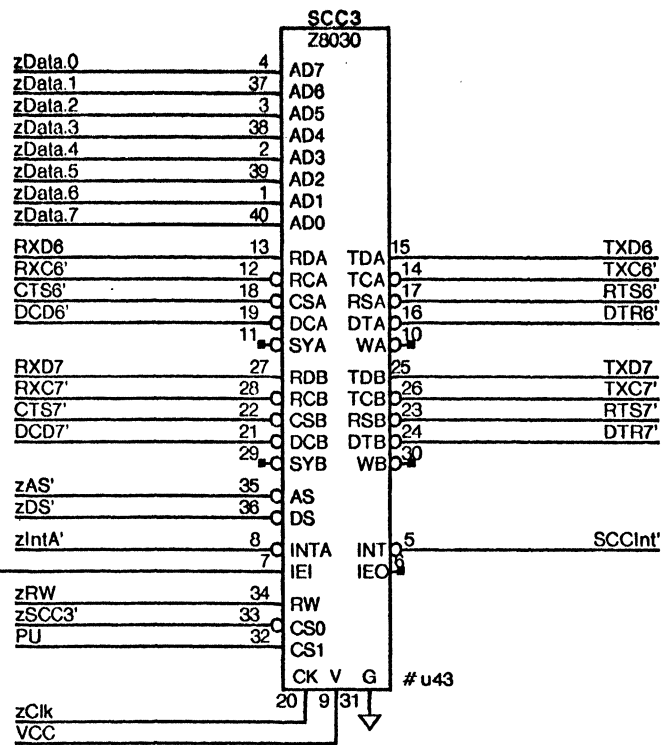
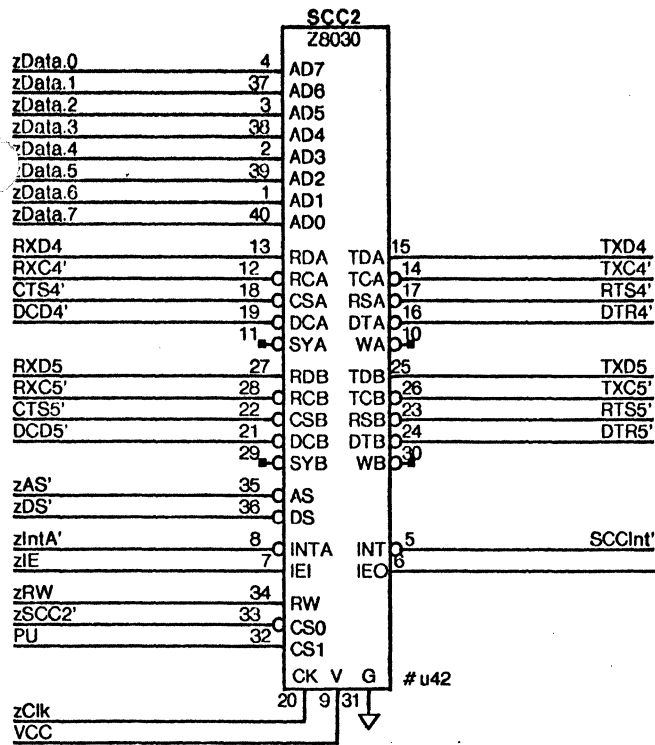




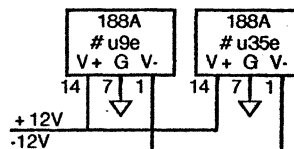
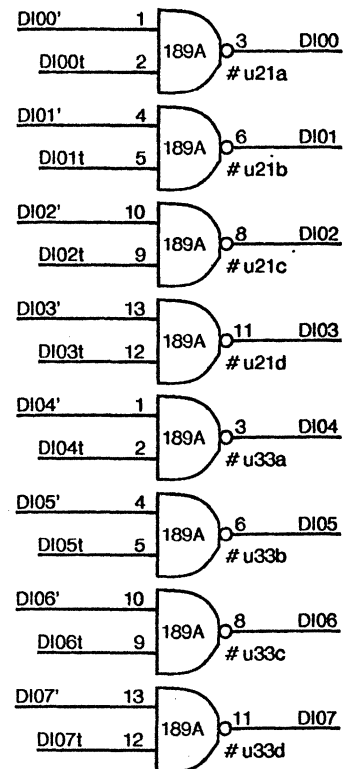
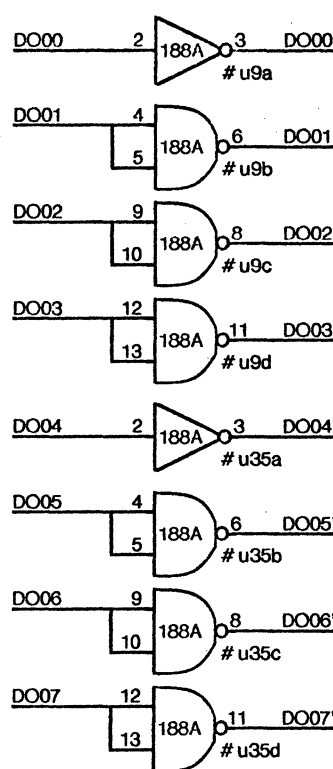
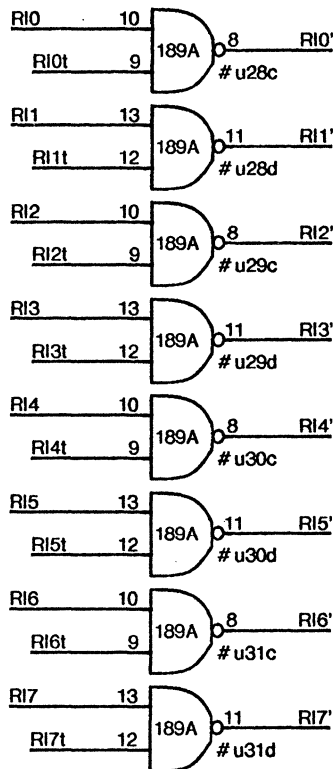
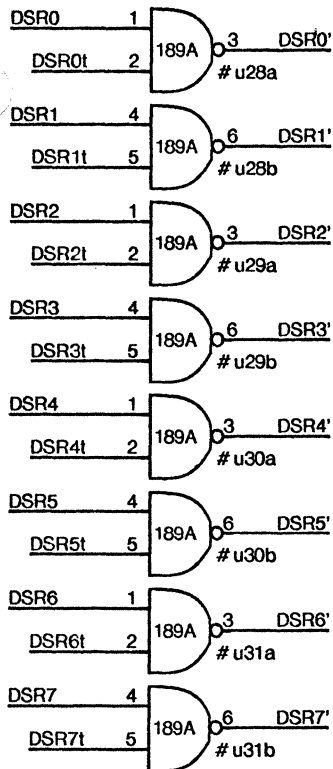
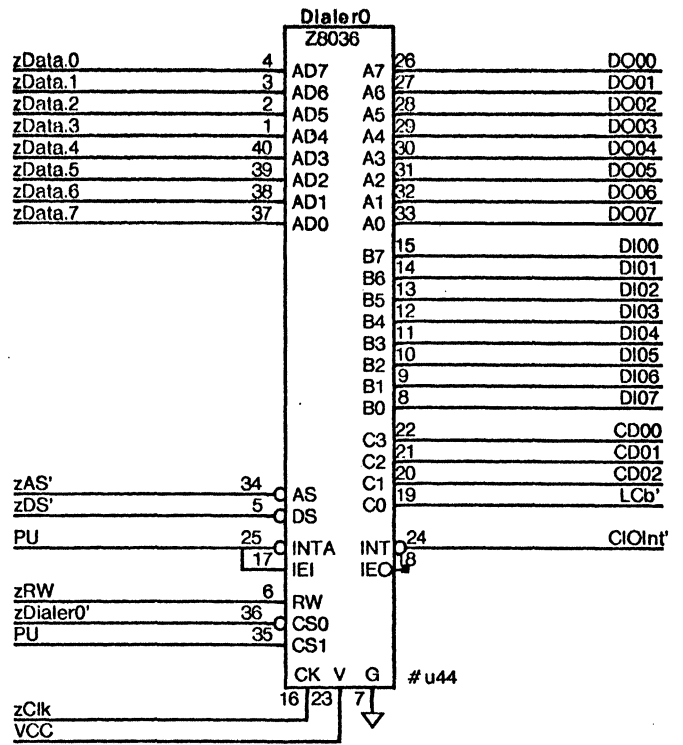
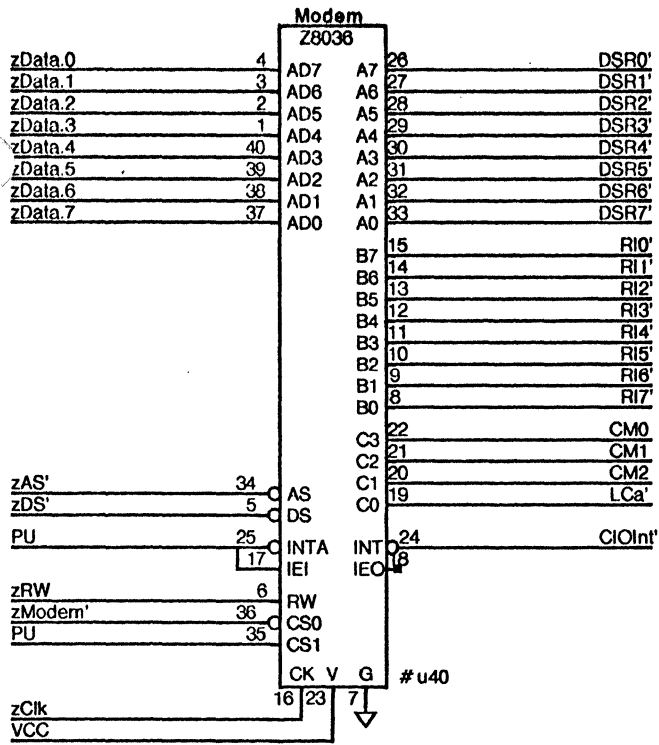


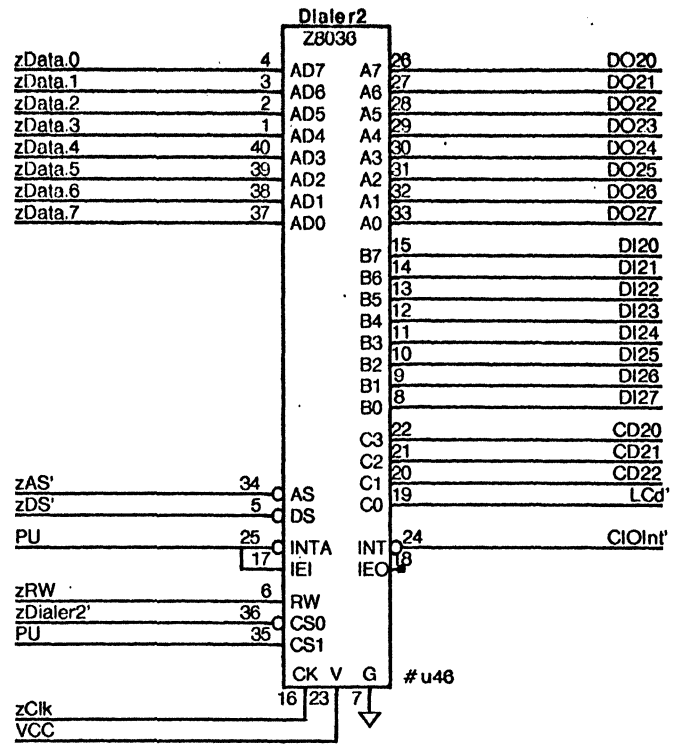
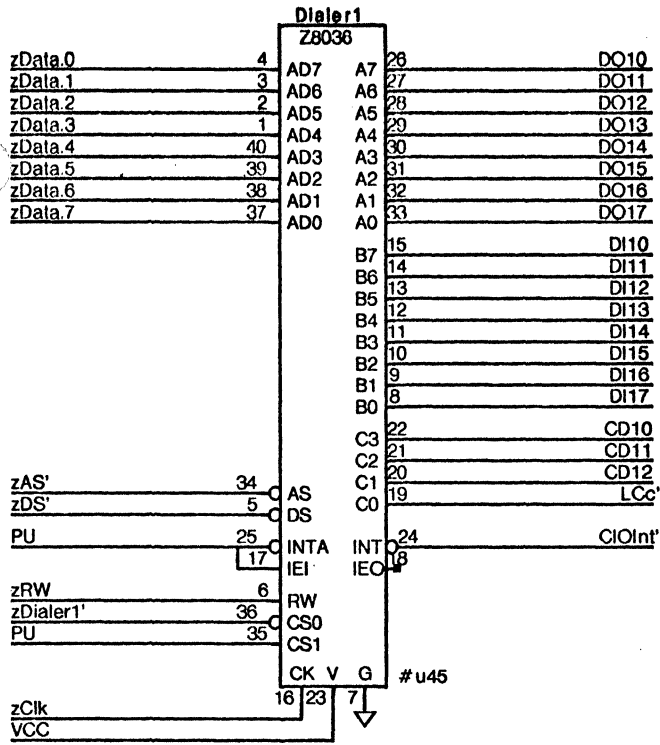


SEE NOTE PAGE 12 FOR CODEX TYPE MODEMS



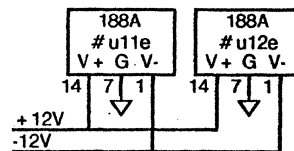
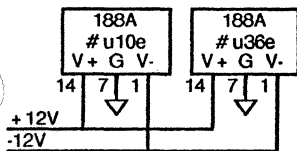
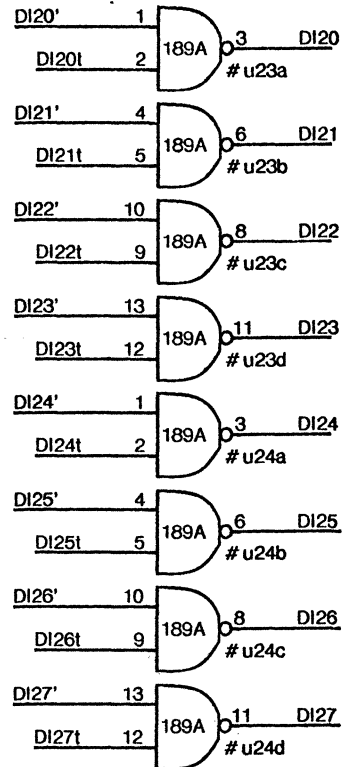
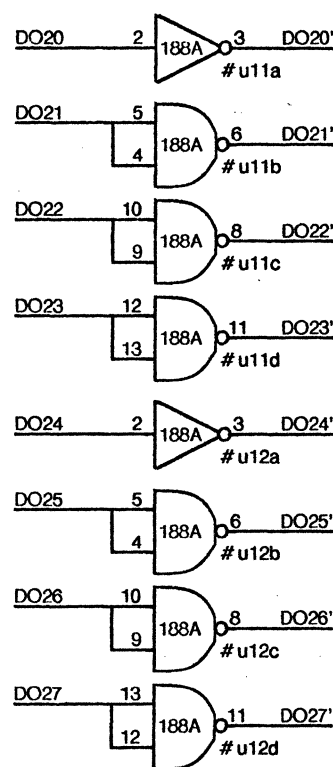
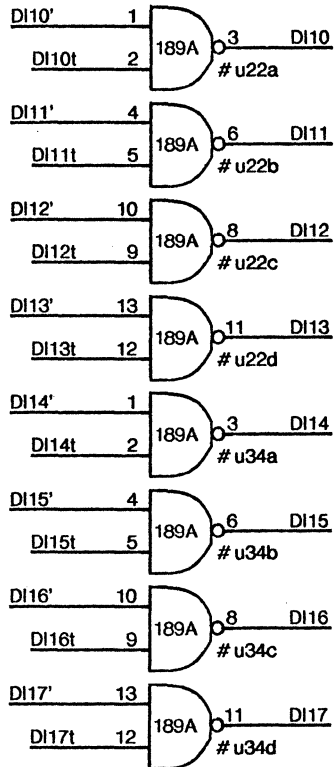
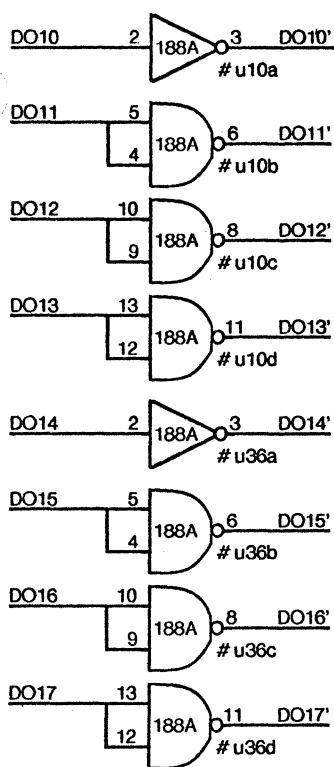
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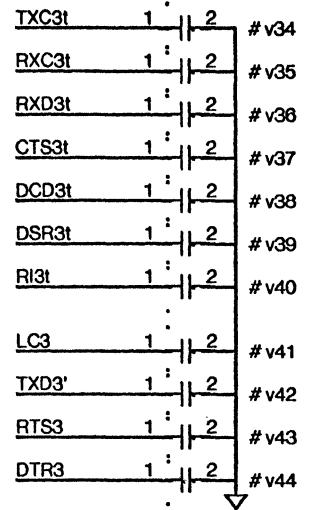
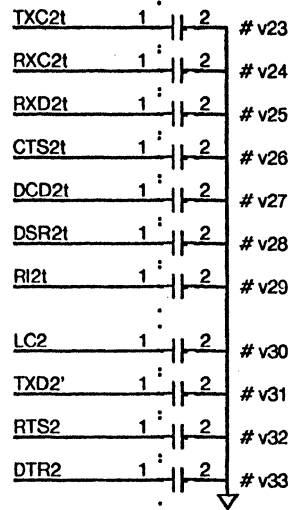
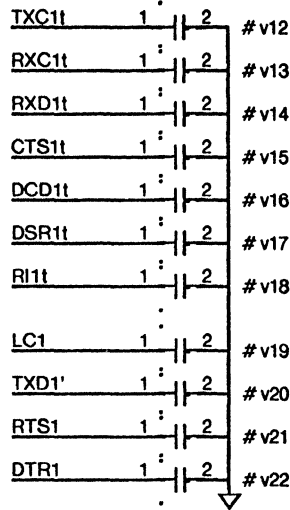
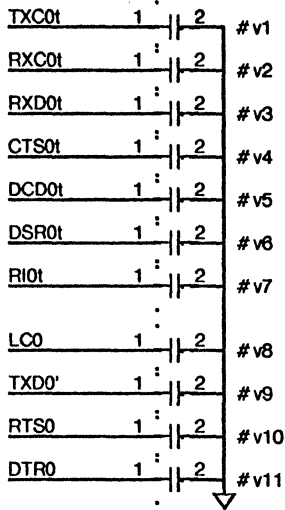
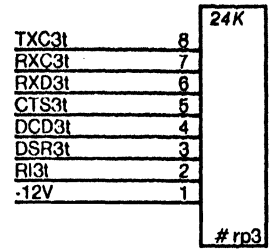
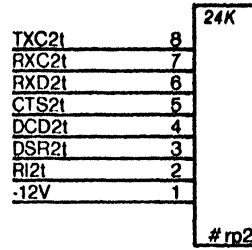
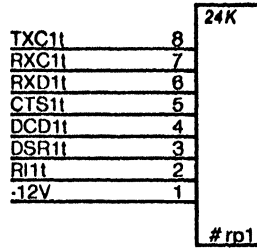
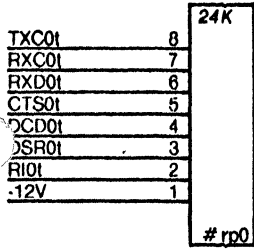




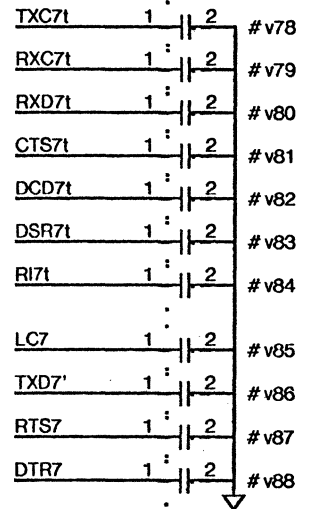
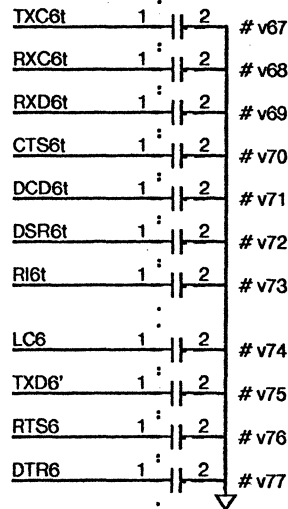
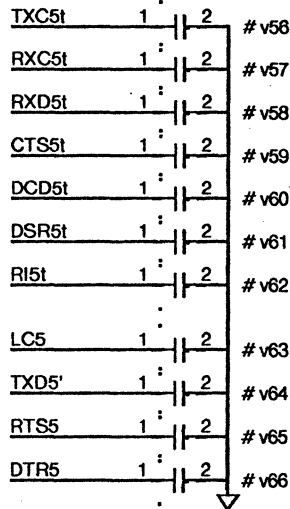
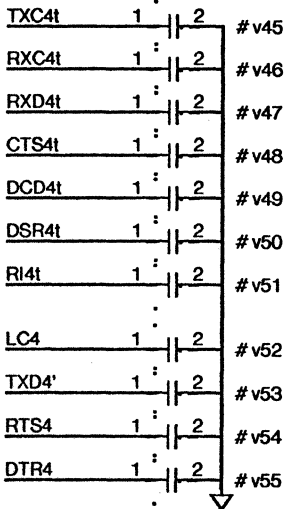
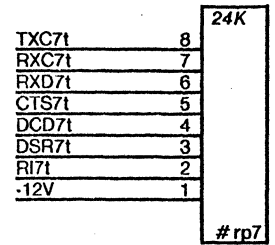
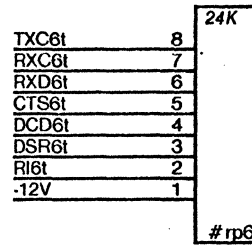
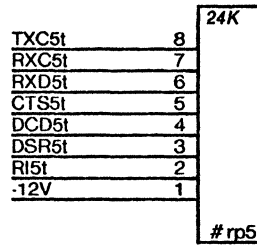
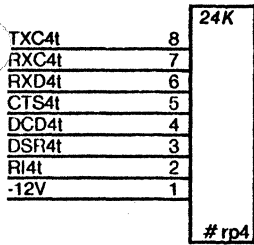
NB: On the initial artwork, pins 12 and 13 were reversed on u22, u23, u24, and u34.
Boards marked Rev DA have pins 5 and 6 swapped too.

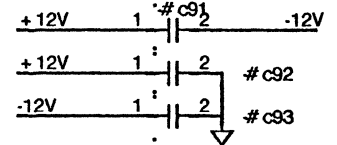
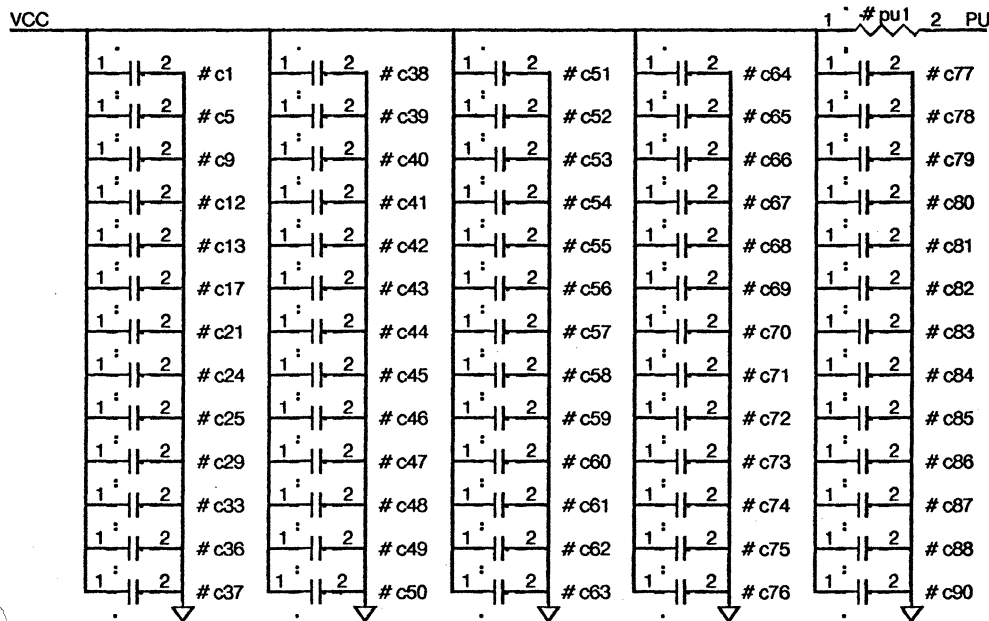
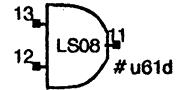
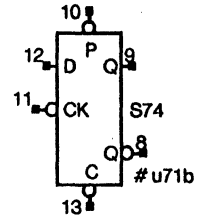
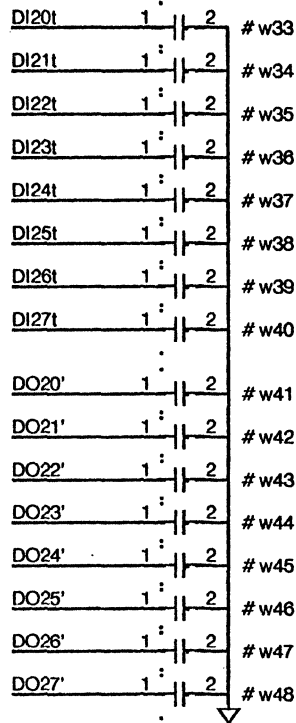
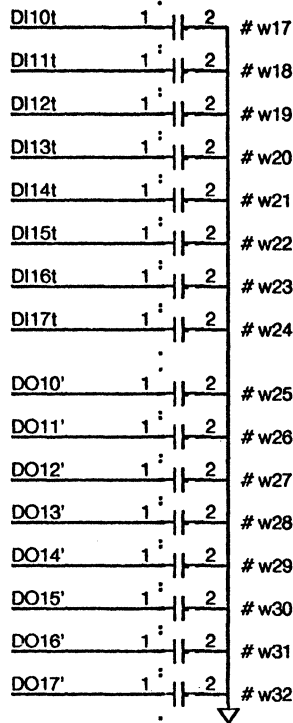
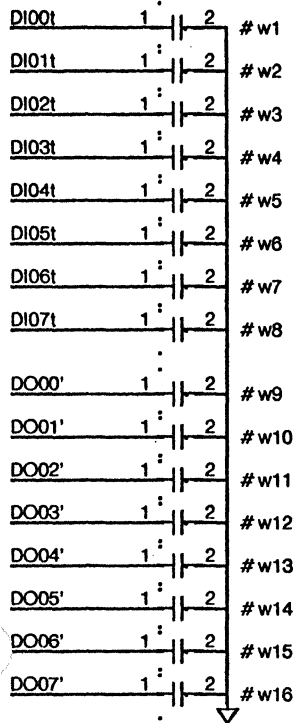
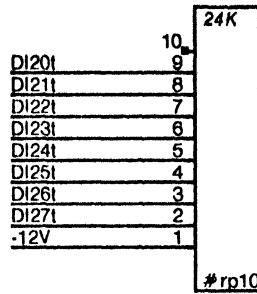
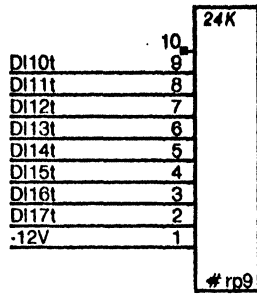
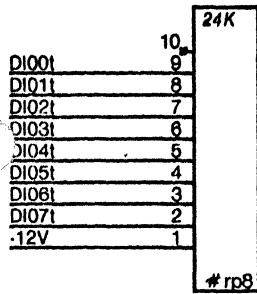
This page shows them the way they should be.





24K SIPs would match the DLion, but they are hard to get. 22K gives a 4V threshold. That works for most gear. Codex 9600 series modems are the only known problem. Unfortunately, Xerox has a lot of them. Yank the SIP if you are interfacing to one.





GND	101	GND	102
VCC	103	VCC	104
VCC	105	VCC	106
+12V	107	+12V	108
GND	111	GND	112

BPRN/	115	INIT/	114
		BPRO/	116
MRDC/	119	MWTC/	120
IORC/	121	IOWC/	122
XACK/	123		

BHEN/	127	AD10/	128
		AD11/	130
CCLK/	131	AD12/	132
		AD13/	134

INT6/	135	INT7/	136
INT4/	137	INT5/	138
INT2/	139	INT3/	140
INT0/	141	INT1/	142

ADRE/	143	ADRF/	144
ADRC/	145	ADRD/	146
ADRA/	147	ADRB/	148
ADR8/	149	ADR9/	150
ADR6/	151	ADR7/	152
ADR4/	153	ADR5/	154
ADR2/	155	ADR3/	156
ADR0/	157	ADR1/	158

DATE/	159	DATF/	160
DATC/	161	DATD/	162
DATA/	163	DATB/	164
DAT8/	165	DAT9/	166
DAT6/	167	DAT7/	168
DAT4/	169	DAT5/	170
DAT2/	171	DAT3/	172
DAT0/	173	DAT1/	174

GND	175	GND	176
-12V	179	-12V	180
VCC	181	VCC	182
VCC	183	VCC	184
GND	185	GND	186

Component side P1 Solder side

AD16/	255	AD17/	256
AD14/	257	AD15/	258

Component side P2 Solder side

LC3	301	GND	302
CTS3	303	RTS3	304
DCD3	305	DTR3	306
TXC3	307	TXD3'	308
RXC3	309	RXD3'	310
RI3	311	DSR3	312
LC2	313	GND	314
CTS2	315	RTS2	316
DCD2	317	DTR2	318
TXC2	319	TXD2'	320
RXC2	321	RXD2'	322
RI2	323	DSR2	324
LC1	325	GND	326
CTS1	327	RTS1	328
DCD1	329	DTR1	330
TXC1	331	TXD1'	332
RXC1	333	RXD1'	334
RI1	335	DSR1	336
LC0	337	GND	338
CTS0	339	RTS0	340
DCD0	341	DTR0	342
TXC0	343	TXD0'	344
RXC0	345	RXD0'	346
RI0	347	DSR0	348
GND	349	GND	350

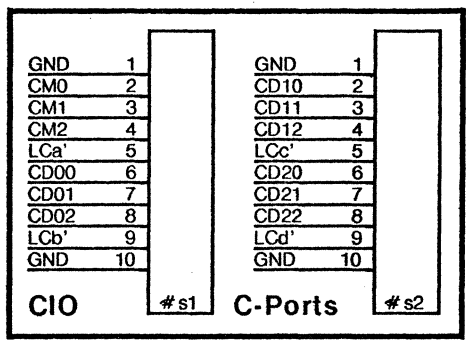
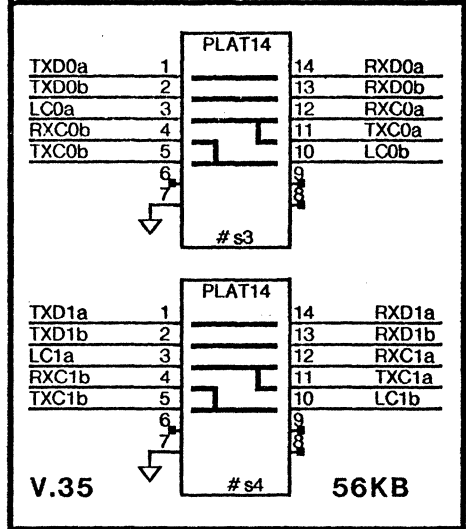
Component side J1 Solder side

DI20'	501	GND	502
DI21'	503	DO20'	504
DI22'	505	DO21'	506
DI23'	507	DO22'	508
DI24'	509	DO23'	510
DI25'	511	DO24'	512
DI26'	513	DO25'	514
DI27'	515	DO26'	516
DI10'	517	DO27'	518
DI11'	519	DO10'	520
DI12'	521	DO11'	522
DI13'	523	DO12'	524
DI14'	525	DO13'	526
DI15'	527	DO14'	528
DI16'	529	DO15'	530
DI17'	531	DO16'	532
DI00'	533	DO17'	534
DI01'	535	DO00'	536
DI02'	537	DO01'	538
DI03'	539	DO02'	540
DI04'	541	DO03'	542
DI05'	543	DO04'	544
DI06'	545	DO05'	546
DI07'	547	DO06'	548
GND	549	DO07'	550

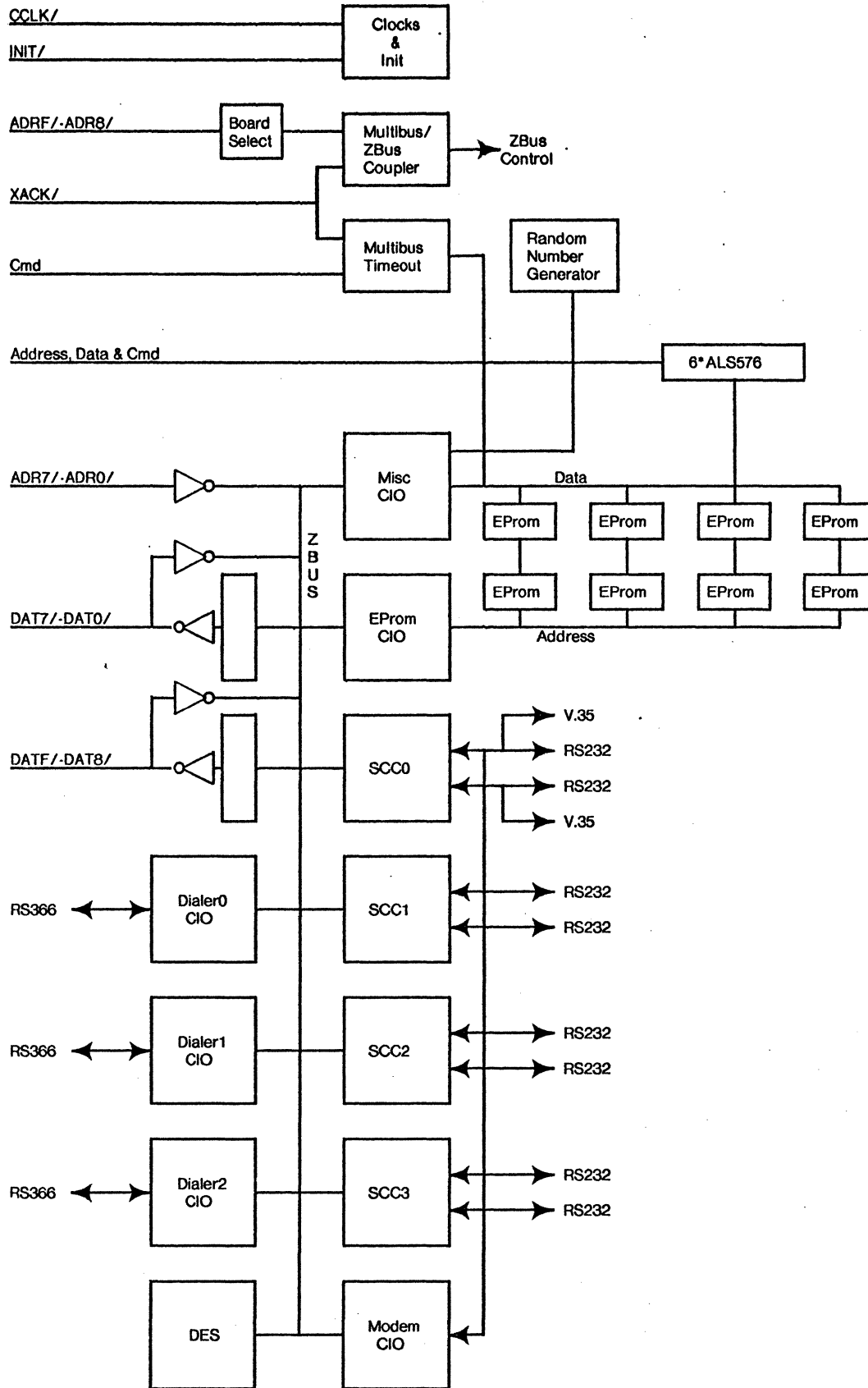
Component side J3 Solder side

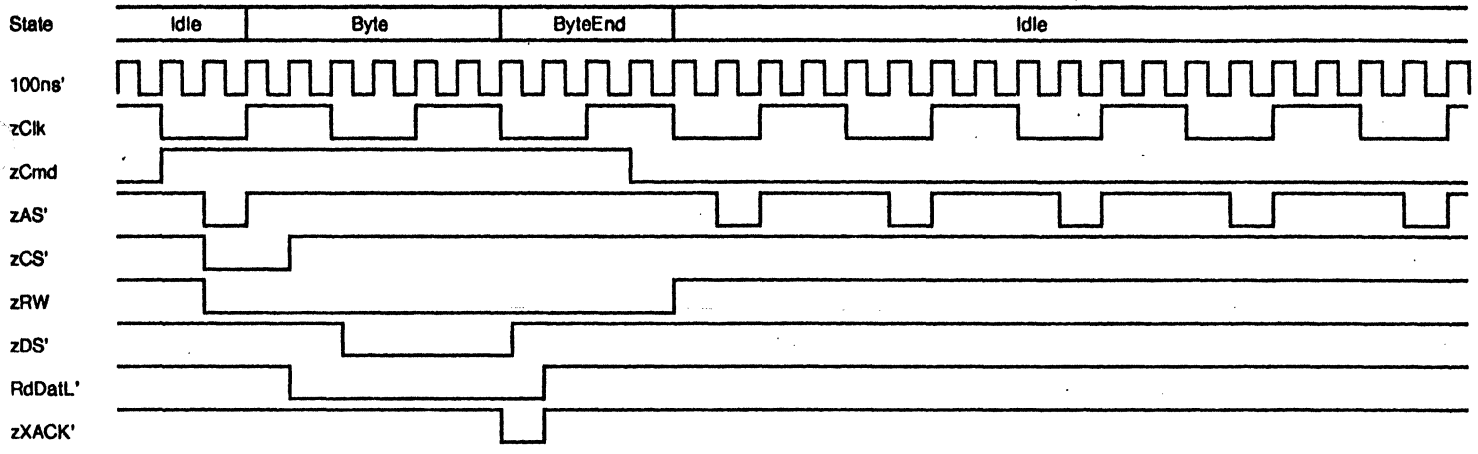
LC7	401	GND	402
CTS7	403	RTS7	404
DCD7	405	DTR7	406
TXC7	407	TXD7'	408
RXC7	409	RXD7'	410
RI7	411	DSR7	412
LC6	413	GND	414
CTS6	415	RTS6	416
DCD6	417	DTR6	418
TXC6	419	TXD6'	420
RXC6	421	RXD6'	422
RI6	423	DSR6	424
LC5	425	GND	426
CTS5	427	RTS5	428
DCD5	429	DTR5	430
TXC5	431	TXD5'	432
RXC5	433	RXD5'	434
RI5	435	DSR5	436
LC4	437	GND	438
CTS4	439	RTS4	440
DCD4	441	DTR4	442
TXC4	443	TXD4'	444
RXC4	445	RXD4'	446
RI4	447	DSR4	448
GND	449	GND	450

Component side J2 Solder side

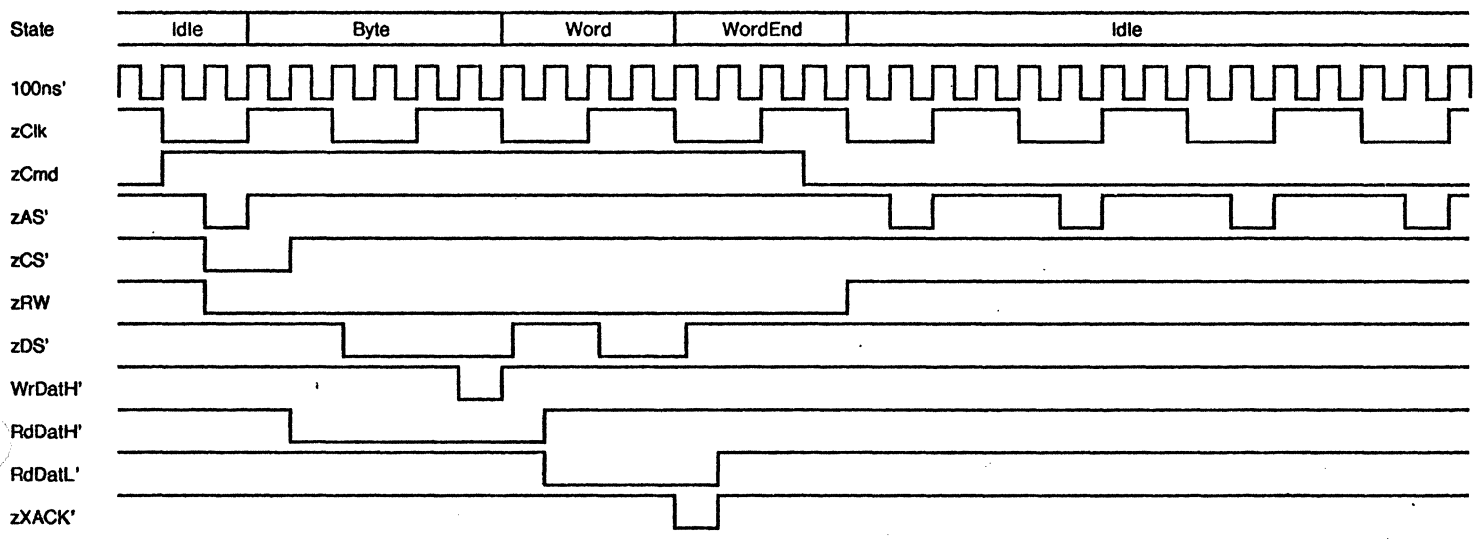


NB: The pin numbers on J1, J2, and J3 correspond to the Multibus specs. The numbers on the 3M connectors are top/bottom reversed. The numbers on the StitchWeld boards are top/bottom reversed.

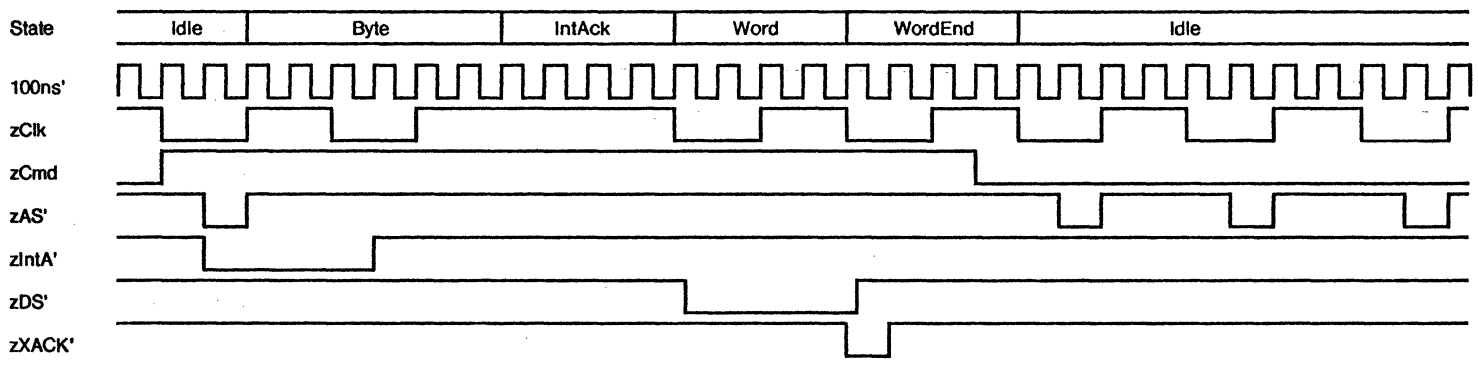




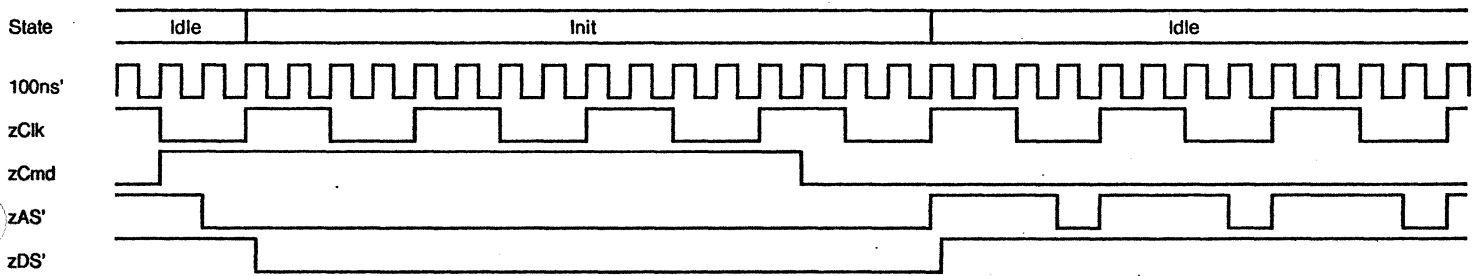
Byte Read or Write



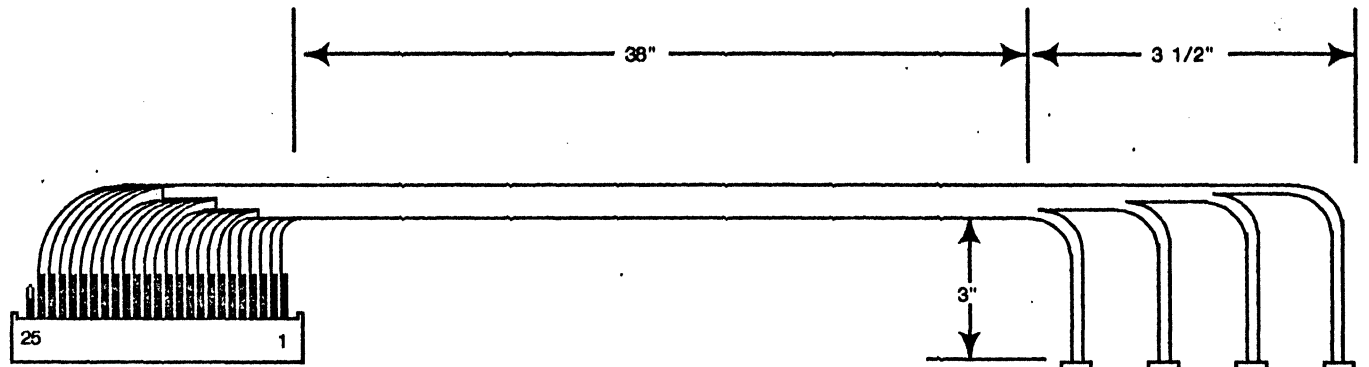
Word Read or Write



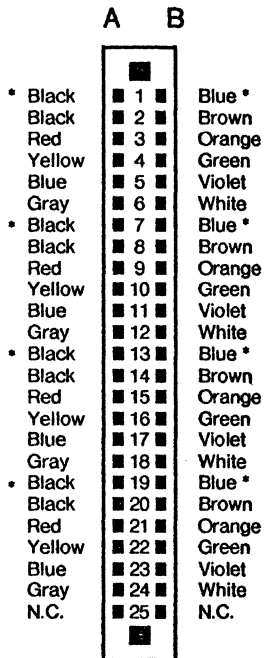
IntAck



Init



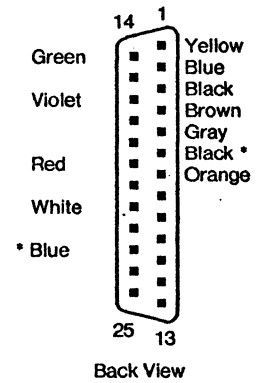
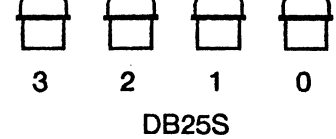
VIKING 3VN25/9JN12



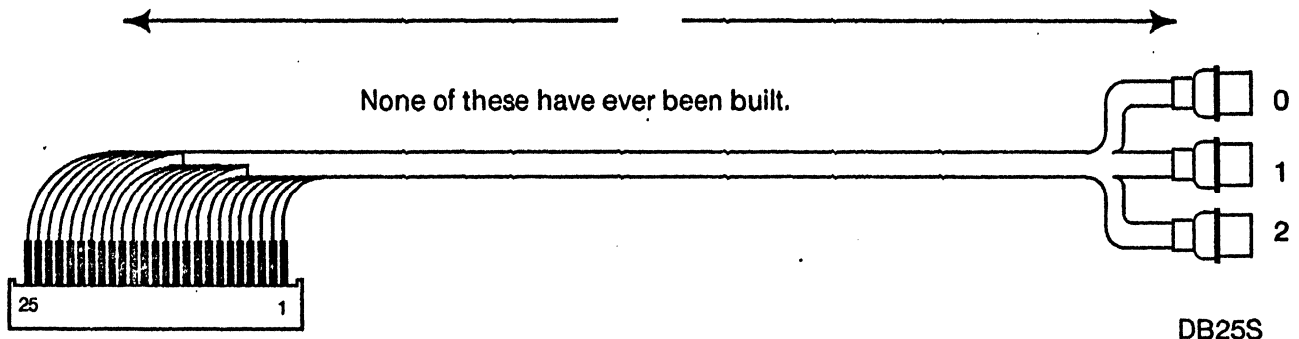
RS232 Loopback Plug

DB25P	Signals
2 to 3	TXD to RXD
24 to 15 & 17	LC to TXC & RXC
4 to 5	RTS to CTS
6 to 20	DSR to DTR

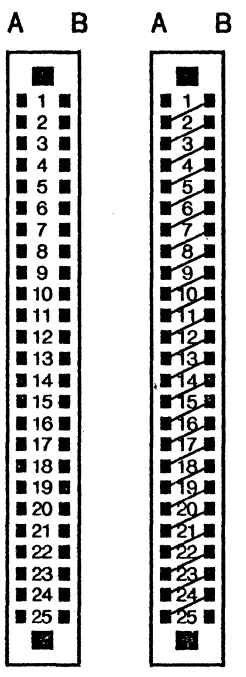
Board	Viking	Color	DB25	Signal
2	A1	Black	3-7	GND
1	B1	Blue	3-24	LC3
4	A2	Black	3-4	RTS3
3	B2	Brown	3-5	CTS3
6	A3	Red	3-20	DTR3
5	B3	Orange	3-8	DCD3
8	A4	Yellow	3-2	TXD3
7	B4	Green	3-15	TXC3
10	A5	Blue	3-3	RXD3
9	B5	Violet	3-17	RXC3
12	A6	Gray	3-6	DSR3
11	B6	White	3-22	RI3
14	A7	Black	2-7	GND
13	B7	Blue	2-24	LC2
16	A8	Black	2-4	RTS2
15	B8	Brown	2-5	CTS2
18	A9	Red	2-20	DTR2
17	B9	Orange	2-8	DCD2
20	A10	Yellow	2-2	TXD2
19	B10	Green	2-15	TXC2
22	A11	Blue	2-3	RXD2
21	B11	Violet	2-17	RXC2
24	A12	Gray	2-6	DSR2
23	B12	White	2-22	RI2
26	A13	Black	1-7	GND
25	B13	Blue	1-24	LC1
28	A14	Black	1-4	RTS1
27	B14	Brown	1-5	CTS1
30	A15	Red	1-20	DTR1
29	B15	Orange	1-8	DCD1
32	A16	Yellow	1-2	TXD1
31	B16	Green	1-15	TXC1
34	A17	Blue	1-3	RXD1
33	B17	Violet	1-17	RXC1
36	A18	Gray	1-6	DSR1
35	B18	White	1-22	RI1
38	A19	Black	0-7	GND
37	B19	Blue	0-24	LC0
40	A20	Black	0-4	RTS0
39	B20	Brown	0-5	CTS0
42	A21	Red	0-20	DTR0
41	B21	Orange	0-8	DCD0
44	A22	Yellow	0-2	TXD0
43	B22	Green	0-15	TXC0
46	A23	Blue	0-3	RXD0
45	B23	Violet	0-17	RXC0
48	A24	Gray	0-6	DSR0
47	B24	White	0-22	RI0
50	A25	—	—	GND
49	B25	—	—	GND



All wires are 26 ga. stranded
 * = > twisted pair

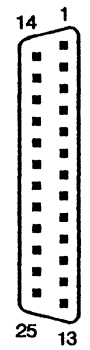


VIKING 3VN25/9JN12



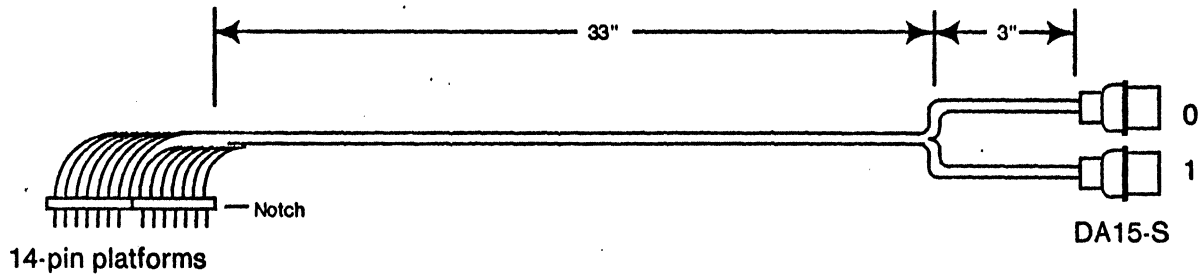
Testing Plug

Board	Viking	Color	DB25	Signal
2	A1			GND
1	B1			DI20'
4	A2			DO20'
3	B2			DI21'
6	A3			DO21'
5	B3			DI22'
8	A4			DO22'
7	B4			DI23'
10	A5			DO23'
9	B5			DI24'
12	A6			DO24'
11	B6			DI25'
14	A7			DO25'
13	B7			DI28'
16	A8			DO26'
15	B8			DI27'
18	A9			DO27'
17	B9			DI10'
20	A10			DO10'
19	B10			DI11'
22	A11			DO11'
21	B11			DI12'
24	A12			DO12'
23	B12			DI13'
26	A13			DO13'
25	B13			DI14'
28	A14			DO14'
27	B14			DI15'
30	A15			DO15
29	B15			DI16'
32	A16			DO16'
31	B16			DI17'
34	A17			DO17'
33	B17			DI00'
36	A18			DO00'
35	B18			DI01'
38	A19			DO01'
37	B19			DI02'
40	A20			DO02'
39	B20			DI03'
42	A21			DO03'
41	B21			DI04'
44	A22			DO04'
43	B22			DI05'
46	A23			DO05'
45	B23			DI06'
48	A24			DO06'
47	B24			DI07'
50	A25			DO07'
49	B25			GND



Back View

All wires are 26 ga. stranded

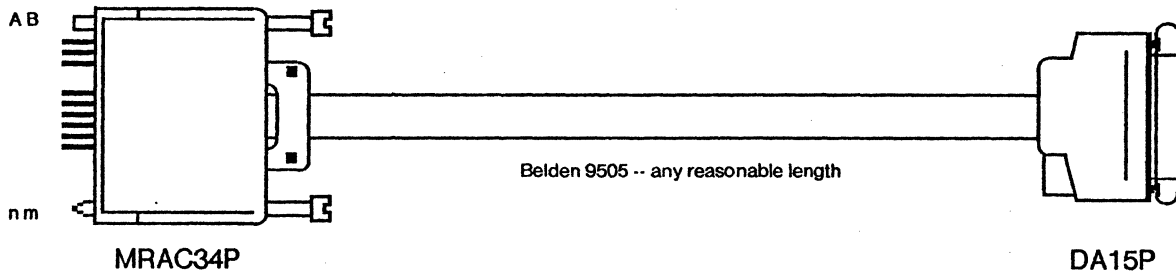


DIP	DA15	Signal
7	9	GND
1	15	TXDa
2	14	TXDb
14	8	RXDa
13	7	RXDb
11	5	TXCa
5	11	TXCb
12	6	RXCa
4	12	RXCb
3	13	LCa
10	4	LCb

Internal Cable

DIP	MRAC34S	DA15P	Signals
1 to 14	P to R	15 to 8	TXDa to RXDa
2 to 13	S to T	14 to 7	TXDb to RXDb
3 to 11 & 12	U to Y & V	13 to 5 & 6	LCa to TXCa & RXCa
10 to 5 & 4	W to a & X	4 to 11 & 12	LCb to TXCb & RXCb

Loopback Plugs

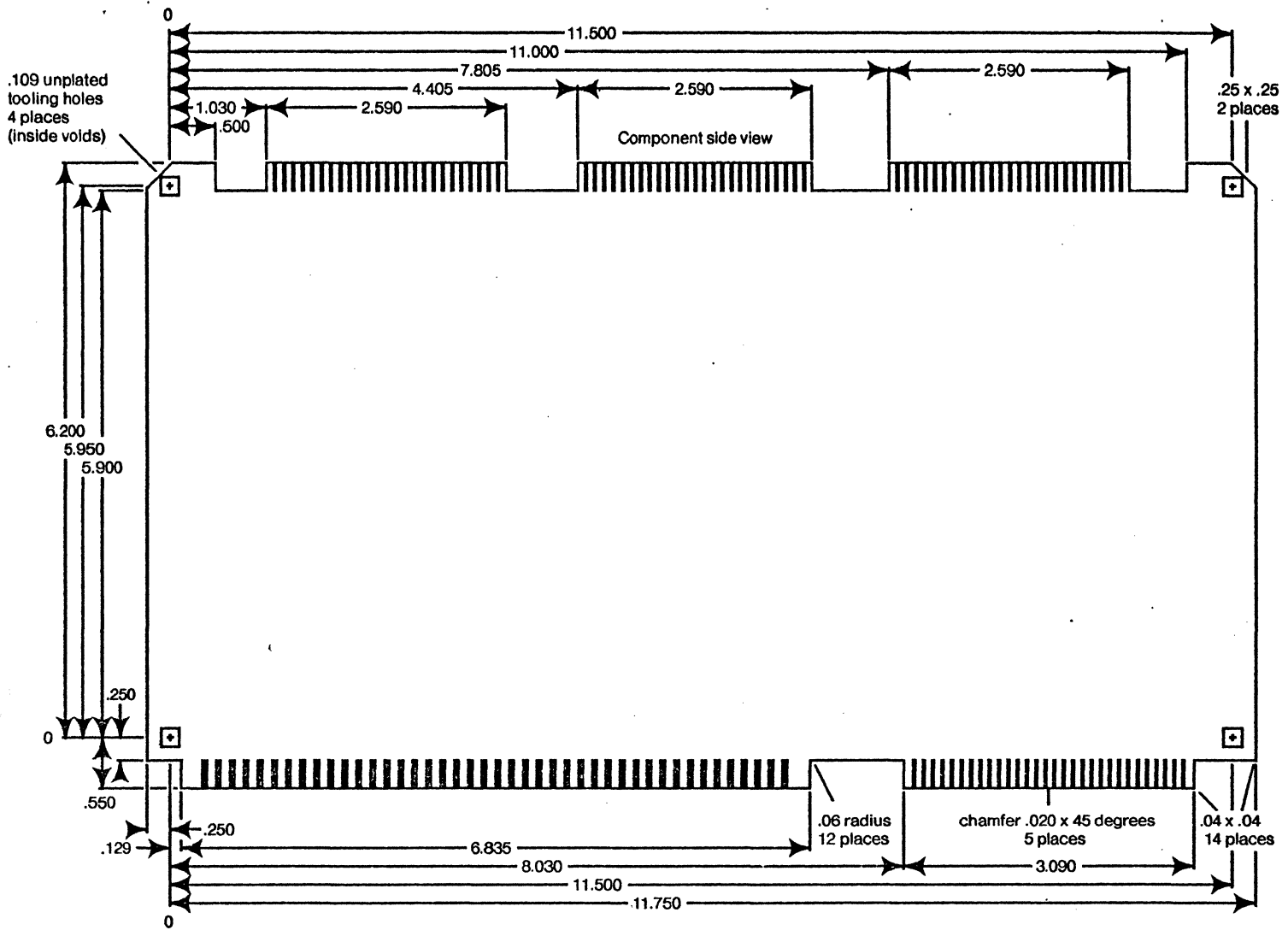


MRAC34	Color	DA15	Signal
B	Drain	9	GND
P	Red	15	TXDa
S	Black	14	TXDb
R	Yellow	8	RXDa
T	Black	7	RXDb
Y	Green	5	TXCa
a	Black	11	TXCb
V	Blue	6	RXCa
X	Black	12	RXCb
U	White	13	LCa
W	Black	4	LCb
C	↔	—	RTS
D	↔	—	CTS
E	↔	—	DSR
H	↔	—	DTR

External Cable

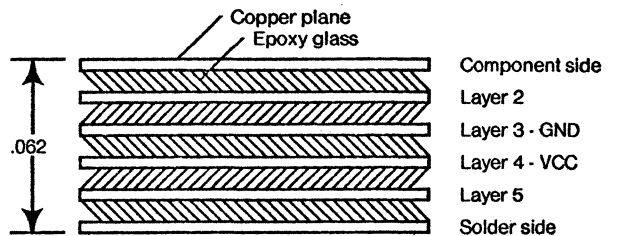
Qty	Manufacturer	Part Number	Description	Location
1	AMD	27S18	Prom 32*8 OC	U58
2	AMD	27S27	Prom 512*8	U59, U60
1	AMD	27S29	Prom 512*8	U56
2	Xicor	2816	EEProm 2K*8	
3	AMD	2764	EProm 8K*8	
1	TI	74LS00	IC	U73
1	TI	74LS08	IC	U61
1	TI	74LS30	IC	U90
1	TI	74S38	IC	U57
2	TI	74S74	IC	U63, U71
4	TI	74LS138	IC	U62, U70, U78, U88
1	TI	74S140	IC	U65
1	TI	74LS164	IC	U67
4	TI	74LS240	IC	U55, U75-U77
2	TI	74LS374	IC	U64, U72
2	TI	74393	IC	U79, U80
8	TI	74ALS576	IC	U68, U69, U82-U87
1	TI	74LS682	IC	U74
14	TI	75188	IC	U1-U12, U35, U36
20	TI	75189A	IC	U13-U24, U27-U34
4	Zilog	Z8030	IC - SCC	U37, U38, U42, U43
6	Zilog	Z8036	IC - CIO	U40, U41, U44-U46, U81
1	AMD	Z8068	IC - DES	U39
2	National	LM339A	IC	U25, U26
1	Motorola	K1115A	20Mhz oscillator	U89
2	Motorola	2N3904	NPN Transistor	Q1, Q2
17	Motorola	1N4148	Si Diode	D1-D17
1	Motorola	1N5227	Zener diode, 3.6V	D18
1	KSW Elect.	KN1201	Noise diode	D19

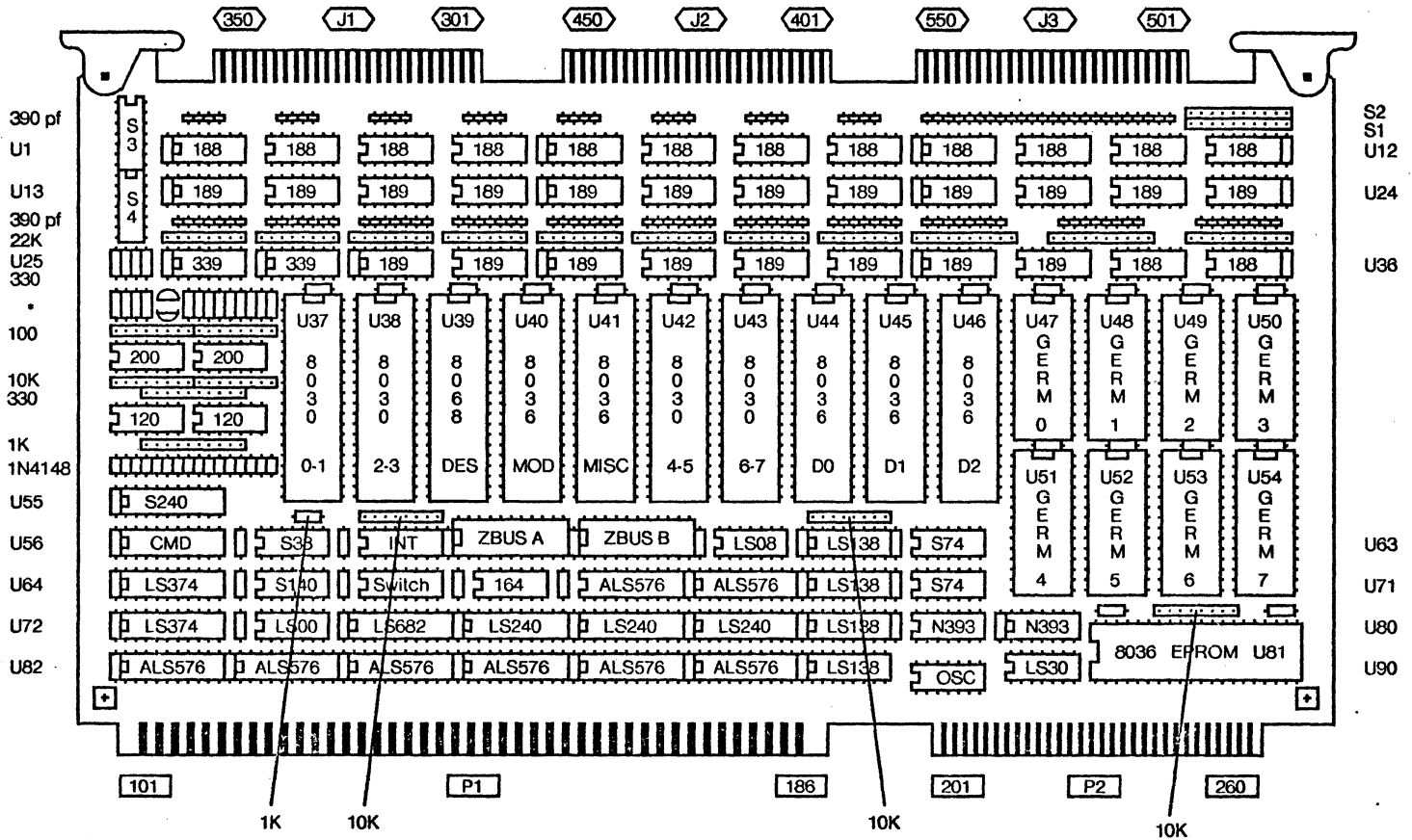
Qty	Manufacturer	Part Number	Description	Location
				For each clump of 4 RS232 lines
1	Viking	3VN25/9JN12	Connector	2 per board
4	Cannon	DBC25S	Connector	
4	Cannon	D53018	Slide lock posts	
48	Cannon	030-1953-000	Crimp socket	
				For each clump of 3 RS366 dialers
1	Viking	3VN25/9JN12	Connector	1 per board
3	Cannon	DBC25S	Connector	
3	Cannon	D53018	Slide lock posts	
50	Cannon	030-1953-000	Crimp socket	
				For each V.35 internal cable - 2 lines
2	Augat	614-CG11	14 pin platform	1 per board
2	Cannon	DAC15S	Connector	
2	Cannon	D53018	Slide lock posts	
22	Cannon	030-1953-000	Crimp socket	
				For each V.35 external cable
1	Winchester	MRAC34PJTDH	Connector	
15	Winchester	100-2020P	Crimp pin	
1	Cannon	DAC15P	Connector	
11	Cannon	030-1952-000	Crimp pin	
2	Cannon	DA19678-1	DA15 straight hood	
2	Cannon	DA51220-1	DA15 slide lock	
	Belden	9505	5 pair cable	



NOTES

- ① All dimensions are in inches; drawing is not to scale.
X.XXX is $\pm .005$; X.XX is $\pm .01$.
- ② Except as noted, this printed board shall be made in accordance with IPC-ML-910 Class II.
- ③ Acceptability of the finished board will be judged in accordance with IPC-A-600.
- ④ Base material: 1 oz Cu on FR4 in accordance with IPC-L-130.
- ⑤ Bonding agent: prepreg B-stage in accordance with IPC-L-110.
- ⑥ Solder mask: green epoxy in accordance with IPC-SM-840.
- ⑦ Silk screen: none
- ⑧ Plating: .000050 Au over .000200 Ni on contact fingers.
.0003 Sn-Pb over .0010 Cu in holes and on traces.
- ⑨ Holes: 4 unplated holes, finished diameter .109.
many unplated holes, finished diameter .031.
- ⑩ Pads: .050 components, connectors, and feedthrus.
- ⑪ Conductors: .010 wide, .010 spacing.





* see SCI arrangement plot.

Proms		
U56	27S29	Cmd
U58	27S18	Int
U59	27S27	ZBusA
U60	27S27	ZBusB

Socket S3, S4, Osc, Proms, Germs
 Odd pins are on the component side
 Even pins are on the solder side.
 NB: The pin numbers for J1, J2, and J3 correspond to the Multibus specs.
 The numbers on the 3M connectors are top/bottom reversed.
 The numbers on the StitchWeld boards are top/bottom reversed.

Rework:
 Swap pins 12-13 on U22, U23, U24, and U34
 Swap pins 5-6 on U22, U23, U24, and U34 on boards marked Rev-DA

Normal Switches:
 Bar is closed, on, 1

```
// DMisc-Proms.bcp1 -- Dicentra Miscellaneous board Proms
// Last modified January 18, 1984 8:56 PM by Boggs

// To make a new .MB file:
//   Edit this file; then FTP it to the "Dicentra Proms" disk
//   type "BCPL DMiscProms.bcp1" to compile it
//   type "BLDR DMiscProms" to load it
//   type "DMiscProms" to run it and produce DMiscProms.mb

external [ Ws; OpenFile; Puts; Closes; Allocate; Free; sysZone ]

static [ memory; mbFile ]

structure String [ length byte; char+1,1 byte ]

manifest [ high = 1; low = 0 ]

//-----
let DMiscProms() be
//-----
[
  mbFile = OpenFile("DMisc-Proms.mb")

  DoMemory("Cmd", 512, 8, Cmd)
  DoMemory("Int", 32, 8, Int)
  DoMemory("ZBus", 512, 24, ZBus)

  Puts(mbFile, 0) //0 = end of file
  Closes(mbFile)
]

//-----
and DoMemory(name, nAddr, nData, Proc) be
//-----
// nAddr is number of addresses
// nData is number of output bits
[
  Ws("N"); Ws(name)

  Puts(mbFile, 4) //4 = define memory
  memory = memory + 1
  Puts(mbFile, memory)
  Puts(mbFile, nData)
  if name>>String.length gr 1 then
    for i = 1 to name>>String.length-1 by 2 do
      Puts(mbFile, name>>String.char+i lshift 8 + name>>String.char+(i+1))
  Puts(mbFile, (name>>String.length & 1) eq 0?
    name>>String.char+(name>>String.length) lshift 8)

  Puts(mbFile, 2) //2 = set current memory
  Puts(mbFile, memory)
  Puts(mbFile, 0) //location counter

  let data = Allocate(sysZone, (nData+15)/16)
  for addr = 0 to nAddr-1 do
    [
      Puts(mbFile, 1) //1 = memory contents
      Puts(mbFile, 0) //source line number
      Proc(addr, data)
      for i = 0 to (nData+15)/16 -1 do Puts(mbFile, data!i)
    ]
  Free(sysZone, data)
]
```

```

-----
//-----
and Cmd(addr, data) be
//-----
[
manifest // zCmd values
[
noCmd = 0
byteRead = 1
byteWrite = 2
wordRead = 3
wordWrite = 4
intAck = 5
init = 6
]

structure Addr:
[
blank bit 7
BdSel bit
IORC bit //low true
IOWC bit //low true
Adr bit 4 //low true
INIT bit //low true
blank bit
]

structure Data:
[
zCmd bit 3
blank bit 3
ReadHigh bit
ReadLow bit
blank bit 8
]

let BdSel = addr<<Addr.BdSel eq high
let IORC = addr<<Addr.IORC eq low
let IOWC = addr<<Addr.IOWC eq low
let Adr = addr<<Addr.Adr xor 17b
let INIT = addr<<Addr.INIT eq low

let zCmd = noCmd
let ReadHigh = IORC & BdSel & Adr eq 16
let ReadLow = IORC & BdSel

if (IORC % IOWC) & BdSel then zCmd = selecton Adr into
[
case 0: IORC? intAck, noCmd //IntAck
case 1: IORC? byteRead, byteWrite //SCC0
case 2: noCmd //Spare
case 3: IORC? byteRead, byteWrite //SCC1
case 4: IORC? byteRead, byteWrite //Modem
case 5: IORC? byteRead, byteWrite //SCC2
case 6: noCmd //Spare
case 7: IORC? byteRead, byteWrite //SCC3
case 8: IORC? byteRead, byteWrite //Dialer0
case 9: IORC? byteRead, byteWrite //Misc
case 10: IORC? byteRead, byteWrite //Dialer1
case 11: IORC? byteRead, byteWrite //EProm
case 12: IORC? byteRead, byteWrite //Dialer2
case 13: IORC? byteRead, byteWrite //DESByte
case 14: noCmd //Spare
case 15: IORC? wordRead, wordWrite //DESWord
]
if INIT then zCmd = init //overrides everything

data>>Data.zCmd = zCmd
data>>Data.ReadHigh = ReadHigh? high, low
data>>Data.ReadLow = ReadLow? high, low
]

```

```
//-----  
and Int(addr, data) be  
//-----  
// This needs work before it is suitable for multiple Misc boards.  
// IntChan bits are currently ignored.  
[  
  structure Addr:  
  [  
    blank bit 11  
    Int0 bit           //low true  
    SCCInt bit        //low true  
    CIOInt bit        //low true  
    IntChan bit 2  
  ]  
  
  structure Data:  
  [  
    IntOut0 bit       //low true  
    IntOut1 bit       //low true  
    IntOut2 bit       //low true  
    IntOut3 bit       //low true  
    IntOut4 bit       //low true  
    IntOut5 bit       //low true  
    IntOut6 bit       //low true  
    IntOut7 bit       //low true  
    blank bit 8  
  ]  
  
  let Int0 = addr<<Addr.Int0 eq low  
  let SCCInt = addr<<Addr.SCCInt eq low  
  let CIOInt = addr<<Addr.CIOInt eq low  
  let IntChan = addr<<Addr.IntChan  
  
  data>>Data.IntOut0 = Int0? low, high  
  data>>Data.IntOut1 = high  
  data>>Data.IntOut2 = high  
  data>>Data.IntOut3 = high  
  data>>Data.IntOut4 = SCCInt? low, high  
  data>>Data.IntOut5 = high  
  data>>Data.IntOut6 = high  
  data>>Data.IntOut7 = CIOInt? low, high  
]
```

```

-----
and ZBus(addr, data) be
-----
[
manifest
[
// zCmd values
noCmd = 0
byteRead = 1
byteWrite = 2
wordRead = 3
wordWrite = 4
intAck = 5
init = 6

// FSM states; 12 free: 52-63.
idle0 = 0; idle1 = 1; idle2 = 2; idle3 = 3
init0 = 4; init1 = 5; init2 = 6; init3 = 7
byte0 = 8; byte1 = 9; byte2 = 10; byte3 = 11; byte4 = 12; byte5 = 13
byteEnd = 14; byteEnd0 = 15; byteEnd1 = 16; byteEnd2 = 17; byteEnd3 = 18
intAck0 = 19; intAck1 = 20; intAck2 = 21; intAck3 = 22
word0 = 23; word1 = 24; word2 = 25; word3 = 26
wordEnd = 27; wordEnd0 = 28; wordEnd1 = 29; wordEnd2 = 30; wordEnd3 = 31

// 20 dally states implies 5 zClk cycles.
// The sixth + 200 ns is in the idle loop and the AS part of the next ref.
dallyFirst = 32; dallyLast = dallyFirst+19
]

structure Addr:
[
blank bit 7
CurState bit 6
zCmd bit 3
]

structure Data:
[
NextState bit 6
ReadDatH bit //low true
ReadDatL bit //low true
WriteDatH bit //low true
zXACK bit //low true
zIntA bit //low true
zCS bit //low true
zClk bit //voltage
zRW bit //voltage
zAS bit //low true
zDS bit //low true
]

let CurState = addr<<Addr.CurState
let zCmd = addr<<Addr.zCmd

let NextState = CurState
let ReadDatH, ReadDatL, WriteDatH = false, false, false
let zXACK, zIntA, zClk = false, false, nil
let zCS, zAS, zDS = false, false, false
let zRW = zCmd eq byteWrite % zCmd eq wordWrite? low, high

```

```
switchon CurState into
[
  case idle0:
  [
    zC1k = high
    NextState = idle1
  endcase
  ]
  case idle1:
  [
    zC1k = high
    NextState = idle2
  endcase
  ]
  case idle2:
  [
    zC1k = low
    NextState = idle3
  endcase
  ]
  case idle3:
  [
    zC1k = low
    zAS = true
    switchon zCmd into
    [
      case noCmd: [ NextState = idle0; endcase ]
      case intAck: zIntA = true
      case byteRead: case byteWrite:
      case wordRead: case wordWrite:
      [
        zCS = true
        NextState = byte0
      endcase
      ]
      case init: [ NextState = init0; endcase ]
      default: docase noCmd
    ]
  endcase
  ]
endcase
]
```

```
case init0:
  [
    zClk = high
    zAS, zDS = true, true
    NextState = init1
  ]
endcase
case init1:
  [
    zClk = high
    zAS, zDS = true, true
    NextState = init2
  ]
endcase
case init2:
  [
    zClk = low
    zAS, zDS = true, true
    NextState = init3
  ]
endcase
case init3:
  [
    zClk = low
    zAS, zDS = true, true
    NextState = zCmd eq init? init0, idle0
  ]
endcase
]
```

```
case byte0:
[
zClk = high
zCS = true
if zCmd eq intAck then zIntA = true
NextState = byte1
endcase
]
case byte1:
[
zClk = high
if zCmd eq intAck then zIntA = true
if zCmd eq byteWrite then ReadDatL = true
if zCmd eq wordWrite then ReadDatH = true
NextState = byte2
endcase
]
case byte2:
[
zClk = low
if zCmd ne intAck then zDS = true
if zCmd eq intAck then zIntA = true
if zCmd eq byteWrite then ReadDatL = true
if zCmd eq wordWrite then ReadDatH = true
NextState = byte3
endcase
]
case byte3:
[
zClk = low
if zCmd ne intAck then zDS = true
if zCmd eq byteWrite then ReadDatL = true
if zCmd eq wordWrite then ReadDatH = true
NextState = byte4
endcase
]
case byte4:
[
zClk = high
if zCmd ne intAck then zDS = true
if zCmd eq byteWrite then ReadDatL = true
if zCmd eq wordWrite then ReadDatH = true
NextState = byte5
endcase
]
case byte5:
[
zClk = high
if zCmd ne intAck then zDS = true
if zCmd eq byteWrite then ReadDatL = true
if zCmd eq wordWrite then ReadDatH = true
if zCmd eq wordRead then WriteDatH = true
NextState = (zCmd eq wordRead % zCmd eq wordWrite)? word0, (zCmd eq intAck? intAck0, byteEnd)
endcase
]
]
```



```
case byteEnd:
  [
    zClk = low
    zXACK = true
    if zCmd eq byteWrite then ReadDatL = true
    NextState = byteEnd1
  endcase
]
case byteEnd0:
  [
    zClk = low
    NextState = zCmd eq noCmd? dallyFirst+1, byteEnd1
  endcase
]
case byteEnd1:
  [
    zClk = low
    zAS = true
    NextState = zCmd eq noCmd? dallyFirst+2, byteEnd2
  endcase
]
case byteEnd2:
  [
    zClk = high
    NextState = zCmd eq noCmd? dallyFirst+3, byteEnd3
  endcase
]
case byteEnd3:
  [
    zClk = high
    NextState = (zCmd eq noCmd % zCmd eq init)? dallyFirst, byteEnd0
  endcase
]

case dallyFirst to dallyLast: //dallyFirst is state 100000 binary
  [
    zClk = (CurState & 2) eq 2? high, low
    zAS = (CurState & 3) eq 1
    NextState = CurState eq dallyLast? idle2, CurState+1
  endcase
]
```

```
case intAck0:
  [
    zC1k = low
    NextState = intAck1
  endcase
]
case intAck1:
  [
    zC1k = low
    NextState = intAck2
  endcase
]
case intAck2:
  [
    zC1k = high
    NextState = intAck3
  endcase
]
case intAck3:
  [
    zC1k = high
    NextState = word0
  endcase
]
```

```
case word0:
  [
    zC1k = low
    if zCmd eq intAck then zDS = true
    if zCmd eq wordWrite then ReadDatH = true
    NextState = word1
  endcase
]
case word1:
  [
    zC1k = low
    if zCmd eq intAck then zDS = true
    if zCmd eq wordWrite then ReadDatL = true
    NextState = word2
  endcase
]
case word2:
  [
    zC1k = high
    zDS = true
    if zCmd eq wordWrite then ReadDatL = true
    NextState = word3
  endcase
]
case word3:
  [
    zC1k = high
    zDS = true
    if zCmd eq wordWrite then ReadDatL = true
    NextState = zCmd eq intAck? byteEnd, wordEnd
  endcase
]
```

```
case wordEnd:
[
zC1k = low
zXACK = true
if zCmd eq wordWrite then ReadDatL = true
NextState = wordEnd1
endcase
]
case wordEnd0:
[
zC1k = low
NextState = zCmd eq noCmd? idle3, wordEnd1
endcase
]
case wordEnd1:
[
zC1k = low
zAS = true
NextState = zCmd eq noCmd? idle0, wordEnd2
endcase
]
case wordEnd2:
[
zC1k = high
NextState = zCmd eq noCmd? idle1, wordEnd3
endcase
]
case wordEnd3:
[
zC1k = high
NextState = (zCmd eq noCmd % zCmd eq init)? idle2, wordEnd0
endcase
]

default: NextState = idle0
]

data>>Data.NextState = NextState
data>>Data.ReadDatH = ReadDatH? low, high
data>>Data.ReadDatL = ReadDatL? low, high
data>>Data.WriteDatH = WriteDatH? low, high
data>>Data.zXACK = zXACK? low, high
data>>Data.zIntA = zIntA? low, high
data>>Data.zCS = zCS? low, high
data>>Data.zC1k = zC1k
data>>Data.zRW = zRW
data>>Data.zAS = zAS? low, high
data>>Data.zDS = zDS? low, high
]
```

Page Numbers: Yes First Page: 1
Columns: 2 Edge Margin: .8" Between Columns: .0"

Heading:
DMisc-Rev-D.ps
COMPONENTS:

#:	1	3	4	7	12
--:	6	7	12	13	
188A:	8	9	10	11	
189A:	8	9	10	11	
27S16:	1				
27S27:	2				
27S29:	2				
2N3904:	6				
339A:	6	7			
64Kx8:	4	5			
8xSPST:	1				
ALS676:	1	3			
LS00:	1	2			
LS08:	1	6	13		
LS138:	1	3	4		
LS164:	3				
LS240:	1				
LS30:	6				
LS682:	1				
N393:	6				
OSC:	6				
PLAT14:	14				
S140:	3	6			
S240:	7				
S374:	2				
S38:	1	3	6		
S74:	1	2	6	13	
Z8030:	8	9			
Z8036:	3	4	10	11	
Z8068:	6				
--:	7	13	14		

SIGNAL NAMES:

++:	1(1)	2(1)	3(1)	4(1)	5(1)	6(1)
	7(1)	8(1)	9(1)	10(1)	11(1)	12(1)
	13(1)	14(1)				
+12V:	6(1)	7(1)	8(1)	9(1)	10(1)	11(2)
	13(2)	14(2)				
-12V:	6(1)	7(1)	8(1)	9(1)	10(1)	11(2)
	12(8)	13(6)	14(2)			
100ns':	2(1)	6(1)				
12.8us:	3(1)	6(1)				
25.6us:	6(2)					
3.2us:	3(1)	6(1)				
AD10/:	1(2)	2(1)	3(1)	14(1)		
AD11/:	1(2)	2(1)	3(1)	14(1)		
AD12/:	1(2)	2(1)	3(1)	14(1)		
AD13/:	1(2)	2(1)	3(1)	14(1)		
AD14/:	3(1)	14(1)				
AD15/:	3(1)	14(1)				
AD16/:	3(1)	14(1)				
AD17/:	3(1)	14(1)				
ADRO/:	1(1)	3(1)	14(1)			
ADR1/:	1(1)	3(1)	14(1)			
ADR2/:	1(1)	3(1)	14(1)			
ADR3/:	1(1)	3(1)	14(1)			
ADR4/:	1(1)	3(1)	14(1)			
ADR6/:	1(1)	3(1)	14(1)			
ADR6/:	1(1)	3(1)	14(1)			
ADR7/:	1(1)	3(1)	14(1)			
ADR8/:	1(1)	3(1)	14(1)			
ADR9/:	1(1)	3(1)	14(1)			
ADRA/:	1(1)	3(1)	14(1)			
ADRB/:	1(1)	3(1)	14(1)			
ADRC/:	1(1)	3(1)	14(1)			
ADRD/:	1(1)	3(1)	14(1)			
ADRE/:	1(1)	3(1)	14(1)			
ADRF/:	1(1)	3(1)	14(1)			
BdSel:	1(3)	2(1)				
BHEN/:	3(1)	14(1)				
Boot':	3(1)	6(1)				
BPRN/:	3(1)	14(1)				
CCLK/:	6(1)	14(1)				
CD00:	10(1)	14(1)				
CD01:	10(1)	14(1)				
CD02:	10(1)	14(1)				
CD10:	11(1)	14(1)				
CD11:	11(1)	14(1)				
CD12:	11(1)	14(1)				
CD20:	11(1)	14(1)				
CD21:	11(1)	14(1)				
CD22:	11(1)	14(1)				
CIOInt':	1(1)	10(2)	11(2)			
CNO:	10(1)	14(1)				
CM1:	10(1)	14(1)				
CM2:	10(1)	14(1)				
CmdSel:	1(3)					
CTS0:	8(1)	14(1)				
CTS0':	8(2)					
CTS0t:	8(1)	12(2)				
CTS1:	8(1)	14(1)				
CTS1':	8(2)					
CTS1t:	8(1)	12(2)				

CTS2:	8(1)	14(1)	
CTS2':	8(2)		
CTS2t:	8(1)	12(2)	
CTS3:	8(1)	14(1)	
CTS3':	8(2)		
CTS3t:	8(1)	12(2)	
CTS4:	9(1)	14(1)	
CTS4':	9(2)		
CTS4t:	9(1)	12(2)	
CTS5:	9(1)	14(1)	
CTS5':	9(2)		
CTS5t:	9(1)	12(2)	
CTS6:	9(1)	14(1)	
CTS6':	9(2)		
CTS6t:	9(1)	12(2)	
CTS7:	9(1)	14(1)	
CTS7':	9(2)		
CTS7t:	9(1)	12(2)	
DAT0/:	1(2)	3(1)	14(1)
DAT1/:	1(2)	3(1)	14(1)
DAT2/:	1(2)	3(1)	14(1)
DAT3/:	1(2)	3(1)	14(1)
DAT4/:	1(2)	3(1)	14(1)
DAT5/:	1(2)	3(1)	14(1)
DAT6/:	1(2)	3(1)	14(1)
DAT7/:	1(2)	3(1)	14(1)
DAT8/:	1(2)	3(1)	14(1)
DAT9/:	1(2)	3(1)	14(1)
DAT0/:	1(2)	3(1)	14(1)
DATB/:	1(2)	3(1)	14(1)
DATC/:	1(2)	3(1)	14(1)
DATD/:	1(2)	3(1)	14(1)
DATE/:	1(2)	3(1)	14(1)
DATF/:	1(2)	3(1)	14(1)
DCD0:	8(1)	14(1)	
DCD0':	8(2)		
DCD0t:	8(1)	12(2)	
DCD1:	8(1)	14(1)	
DCD1':	8(2)		
DCD1t:	8(1)	12(2)	
DCD2:	8(1)	14(1)	
DCD2':	8(2)		
DCD2t:	8(1)	12(2)	
DCD3:	8(1)	14(1)	
DCD3':	8(2)		
DCD3t:	8(1)	12(2)	
DCD4:	9(1)	14(1)	
DCD4':	9(2)		
DCD4t:	9(1)	12(2)	
DCD5:	9(1)	14(1)	
DCD5':	9(2)		
DCD5t:	9(1)	12(2)	
DCD6:	9(1)	14(1)	
DCD6':	9(2)		
DCD6t:	9(1)	12(2)	
DCD7:	9(1)	14(1)	
DCD7':	9(2)		
DCD7t:	9(1)	12(2)	
DI00:	10(2)		
DI00':	10(1)	14(1)	
DI00t:	10(1)	13(2)	
DI01:	10(2)		
DI01':	10(1)	14(1)	
DI01t:	10(1)	13(2)	
DI02:	10(2)		
DI02':	10(1)	14(1)	
DI02t:	10(1)	13(2)	
DI03:	10(2)		
DI03':	10(1)	14(1)	
DI03t:	10(1)	13(2)	
DI04:	10(2)		
DI04':	10(1)	14(1)	
DI04t:	10(1)	13(2)	
DI05:	10(2)		
DI05':	10(1)	14(1)	
DI05t:	10(1)	13(2)	
DI06:	10(2)		
DI06':	10(1)	14(1)	
DI06t:	10(1)	13(2)	
DI07:	10(2)		
DI07':	10(1)	14(1)	
DI07t:	10(1)	13(2)	
DI10:	11(2)		
DI10':	11(1)	14(1)	
DI10t:	11(1)	13(2)	
DI11:	11(2)		
DI11':	11(1)	14(1)	
DI11t:	11(1)	13(2)	
DI12:	11(2)		
DI12':	11(1)	14(1)	
DI12t:	11(1)	13(2)	
DI13:	11(2)		
DI13':	11(1)	14(1)	
DI13t:	11(1)	13(2)	
DI14:	11(2)		
DI14':	11(1)	14(1)	
DI14t:	11(1)	13(2)	
DI15:	11(2)		
DI15':	11(1)	14(1)	
DI15t:	11(1)	13(2)	
DI16:	11(2)		

0I16':	11(1)	14(1)
0I16t:	11(1)	13(2)
0I17:	11(2)	
0I17':	11(1)	14(1)
0I17t:	11(1)	13(2)
0I20:	11(2)	
0I20':	11(1)	14(1)
0I20t:	11(1)	13(2)
0I21:	11(2)	
0I21':	11(1)	14(1)
0I21t:	11(1)	13(2)
0I22:	11(2)	
0I22':	11(1)	14(1)
0I22t:	11(1)	13(2)
0I23:	11(2)	
0I23':	11(1)	14(1)
0I23t:	11(1)	13(2)
0I24:	11(2)	
0I24':	11(1)	14(1)
0I24t:	11(1)	13(2)
0I26:	11(2)	
0I26':	11(1)	14(1)
0I26t:	11(1)	13(2)
0I27:	11(2)	
0I27':	11(1)	14(1)
0I27t:	11(1)	13(2)
0000:	10(2)	
0000':	10(1)	13(1) 14(1)
0001:	10(2)	
0001':	10(1)	13(1) 14(1)
0002:	10(2)	
0002':	10(1)	13(1) 14(1)
0003:	10(2)	
0003':	10(1)	13(1) 14(1)
0004:	10(2)	
0004':	10(1)	13(1) 14(1)
0005:	10(2)	
0005':	10(1)	13(1) 14(1)
0006:	10(2)	
0006':	10(1)	13(1) 14(1)
0007:	10(2)	
0007':	10(1)	13(1) 14(1)
0010:	11(2)	
0010':	11(1)	13(1) 14(1)
0011:	11(2)	
0011':	11(1)	13(1) 14(1)
0012:	11(2)	
0012':	11(1)	13(1) 14(1)
0013:	11(2)	
0013':	11(1)	13(1) 14(1)
0014:	11(2)	
0014':	11(1)	13(1) 14(1)
0015:	11(2)	
0015':	11(1)	13(1) 14(1)
0016:	11(2)	
0016':	11(1)	13(1) 14(1)
0017:	11(2)	
0017':	11(1)	13(1) 14(1)
0020:	11(2)	
0020':	11(1)	13(1) 14(1)
0021:	11(2)	
0021':	11(1)	13(1) 14(1)
0022:	11(2)	
0022':	11(1)	13(1) 14(1)
0023:	11(2)	
0023':	11(1)	13(1) 14(1)
0024:	11(2)	
0024':	11(1)	13(1) 14(1)
0025:	11(2)	
0025':	11(1)	13(1) 14(1)
0026:	11(2)	
0026':	11(1)	13(1) 14(1)
0027:	11(2)	
0027':	11(1)	13(1) 14(1)
DSR0:	10(1)	14(1)
DSR0':	10(2)	
DSR0t:	10(1)	12(2)
DSR1:	10(1)	14(1)
DSR1':	10(2)	
DSR1t:	10(1)	12(2)
DSR2:	10(1)	14(1)
DSR2':	10(2)	
DSR2t:	10(1)	12(2)
DSR3:	10(1)	14(1)
DSR3':	10(2)	
DSR3t:	10(1)	12(2)
DSR4:	10(1)	14(1)
DSR4':	10(2)	
DSR4t:	10(1)	12(2)
DSR5:	10(1)	14(1)
DSR5':	10(2)	
DSR5t:	10(1)	12(2)
DSR6:	10(1)	14(1)
DSR6':	10(2)	
DSR6t:	10(1)	12(2)
DSR7:	10(1)	14(1)
DSR7':	10(2)	
DSR7t:	10(1)	12(2)

DTR0:	8(1)	12(1)	14(1)			
DTR0':	8(2)					
DTR1:	8(1)	12(1)	14(1)			
DTR1':	8(2)					
DTR2:	8(1)	12(1)	14(1)			
DTR2':	8(2)					
DTR3:	8(1)	12(1)	14(1)			
DTR3':	8(2)					
DTR4:	9(1)	12(1)	14(1)			
DTR4':	9(2)					
DTR5:	9(1)	12(1)	14(1)			
DTR6:	9(2)					
DTR6':	9(1)	12(1)	14(1)			
DTR7:	9(2)					
DTR7':	9(1)	12(1)	14(1)			
GND:	14(26)					
Gnd:	1(1)	2(1)	3(1)	4(1)	5(1)	6(1)
	7(1)	8(1)	9(1)	10(1)	11(1)	12(1)
	13(1)	14(1)				
INIT/:	2(1)	8(1)	14(1)			
Int0':	1(1)	3(1)	4(1)			
INT0/:	1(1)	14(1)				
INT1/:	1(1)	14(1)				
INT2/:	1(1)	14(1)				
INT3/:	1(1)	14(1)				
INT4/:	1(1)	14(1)				
INT5/:	1(1)	14(1)				
INT6/:	1(1)	14(1)				
INT7/:	1(1)	14(1)				
IntChan.0:	1(1)	3(1)				
IntChan.1:	1(1)	3(1)				
IORC/:	1(1)	2(1)	3(2)	14(1)		
IOWC/:	1(1)	2(1)	3(2)	14(1)		
LC0:	8(1)	12(1)	14(1)			
LC0a:	7(1)	14(1)				
LC0b:	7(1)	14(1)				
LC1:	8(1)	12(1)	14(1)			
LC1a:	7(1)	14(1)				
LC1b:	7(1)	14(1)				
LC2:	8(1)	12(1)	14(1)			
LC3:	8(1)	12(1)	14(1)			
LC4:	9(1)	12(1)	14(1)			
LC5:	9(1)	12(1)	14(1)			
LC6:	9(1)	12(1)	14(1)			
LC7:	9(1)	12(1)	14(1)			
LCa':	7(2)	8(2)	10(1)	14(1)		
LCb':	8(2)	10(1)	14(1)			
LCc':	9(2)	11(1)	14(1)			
LCd':	9(2)	11(1)	14(1)			
mData.0:	3(7)	4(2)	5(6)			
mData.1:	3(7)	4(2)	5(6)			
mData.2:	3(7)	4(2)	5(6)			
mData.3:	3(7)	4(2)	5(6)			
mData.4:	3(7)	4(2)	5(6)			
mData.5:	3(7)	4(2)	5(6)			
mData.6:	3(7)	4(2)	5(6)			
mData.7:	3(7)	4(2)	5(6)			
mEn.0:	3(2)	4(1)				
mEn.1:	3(2)	4(1)				
mEn.2:	3(2)	4(1)				
mEn.3:	3(2)	4(1)				
MRDC/:	3(2)	14(1)				
MWTC/:	3(2)	14(1)				
PromAd.0:	4(4)	5(6)				
PromAd.1:	4(4)	5(6)				
PromAd.10:	4(3)	5(6)				
PromAd.11:	4(3)	5(6)				
PromAd.12:	4(3)	5(6)				
PromAd.13:	4(3)	5(6)				
PromAd.14:	4(3)	5(6)				
PromAd.15:	4(3)	5(6)				
PromAd.2:	4(3)	5(6)				
PromAd.3:	4(3)	5(6)				
PromAd.4:	4(3)	5(6)				
PromAd.5:	4(3)	5(6)				
PromAd.6:	4(3)	5(6)				
PromAd.7:	4(3)	5(6)				
PromAd.8:	4(3)	5(6)				
PromAd.9:	4(3)	5(6)				
PromCE0':	4(2)					
PromCE1':	4(2)					
PromCE2':	4(1)	5(1)				
PromCE3':	4(1)	5(1)				
PromCE4':	4(1)	5(1)				
PromCE5':	4(1)	5(1)				
PromCE6':	4(1)	5(1)				
PromCE7':	4(1)	5(1)				
PromOE':	4(4)	5(6)				
PU:	1(2)	2(2)	3(3)	4(3)	6(3)	8(3)
	9(2)	10(4)	11(4)	13(1)		
RandomBit:	3(1)	6(1)				
RawCk:	2(1)	6(1)				
RdTOAdrH':	3(2)					
RdTOAdrL':	3(2)					
RdTOAdrM':	3(2)					
RdTOCmd':	3(2)					
RdTODatH':	3(2)					
RdTODatL':	3(2)					
ReadDatH':	1(1)	2(1)				
ReadDatL':	1(1)	2(1)				

ReadH:	1(1)	2(1)	
ReadL:	1(1)	2(1)	
RI0:	10(1)	14(1)	
RI0':	10(2)		
RI0t:	10(1)	12(2)	
RI1:	10(1)	14(1)	
RI1':	10(2)		
RI1t:	10(1)	12(2)	
RI2:	10(1)	14(1)	
RI2':	10(2)		
RI2t:	10(1)	12(2)	
RI3:	10(1)	14(1)	
RI3':	10(2)		
RI3t:	10(1)	12(2)	
RI4:	10(1)	14(1)	
RI4':	10(2)		
RI4t:	10(1)	12(2)	
RI6:	10(1)	14(1)	
RI5':	10(2)		
RI6t:	10(1)	12(2)	
RI6:	10(1)	14(1)	
RI6':	10(2)		
RI6t:	10(1)	12(2)	
RI7:	10(1)	14(1)	
RI7':	10(2)		
RI7t:	10(1)	12(2)	
RTS0:	8(1)	12(1)	14(1)
RTS0':	8(2)		
RTS1:	8(1)	12(1)	14(1)
RTS1':	8(2)		
RTS2:	8(1)	12(1)	14(1)
RTS2':	8(2)		
RTS3:	8(1)	12(1)	14(1)
RTS3':	8(2)		
RTS4:	9(1)	12(1)	14(1)
RTS4':	9(2)		
RTS5:	9(1)	12(1)	14(1)
RTS5':	9(2)		
RTS6:	9(1)	12(1)	14(1)
RTS6':	9(2)		
RTS7:	9(1)	12(1)	14(1)
RTS7':	9(2)		
RXC0:	8(1)	14(1)	
RXC0':	7(1)	8(2)	
RXC0a:	7(1)	14(1)	
RXC0b:	7(1)	14(1)	
RXC0t:	8(1)	12(2)	
RXC1:	8(1)	14(1)	
RXC1':	7(1)	8(2)	
RXC1a:	7(1)	14(1)	
RXC1b:	7(1)	14(1)	
RXC1t:	8(1)	12(2)	
RXC2:	8(1)	14(1)	
RXC2':	8(2)		
RXC2t:	8(1)	12(2)	
RXC3:	8(1)	14(1)	
RXC3':	8(2)		
RXC3t:	8(1)	12(2)	
RXC4:	9(1)	14(1)	
RXC4':	9(2)		
RXC4t:	9(1)	12(2)	
RXC5:	9(1)	14(1)	
RXC5':	9(2)		
RXC5t:	9(1)	12(2)	
RXC6:	9(1)	14(1)	
RXC6':	9(2)		
RXC6t:	9(1)	12(2)	
RXC7:	9(1)	14(1)	
RXC7':	9(2)		
RXC7t:	9(1)	12(2)	
RXD0:	7(1)	8(2)	
RXD0':	8(1)	14(1)	
RXD0a:	7(1)	14(1)	
RXD0b:	7(1)	14(1)	
RXD0t:	8(1)	12(2)	
RXD1:	7(1)	8(2)	
RXD1':	8(1)	14(1)	
RXD1a:	7(1)	14(1)	
RXD1b:	7(1)	14(1)	
RXD1t:	8(1)	12(2)	
RXD2:	8(2)		
RXD2':	8(1)	14(1)	
RXD2t:	8(1)	12(2)	
RXD3:	8(2)		
RXD3':	8(1)	14(1)	
RXD3t:	8(1)	12(2)	
RXD4:	9(2)		
RXD4':	9(1)	14(1)	
RXD4t:	9(1)	12(2)	
RXD5:	9(2)		
RXD5':	9(1)	14(1)	
RXD5t:	9(1)	12(2)	
RXD6:	9(2)		
RXD6':	9(1)	14(1)	
RXD6t:	9(1)	12(2)	
RXD7:	9(2)		
RXD7':	9(1)	14(1)	
RXD7t:	9(1)	12(2)	
SCCInt':	1(1)	8(2)	9(2)
TOXACK:	3(4)		
TXCO:	8(1)	14(1)	

TXC0':	7(1)	8(2)				
TXC0a:	7(1)	14(1)				
TXC0b:	7(1)	14(1)				
TXC0t:	8(1)	12(2)				
TXC1:	8(1)	14(1)				
TXC1':	7(1)	8(2)				
TXC1a:	7(1)	14(1)				
TXC1b:	7(1)	14(1)				
TXC1t:	8(1)	12(2)				
TXC2:	8(1)	14(1)				
TXC2':	8(2)					
TXC2t:	8(1)	12(2)				
TXC3:	8(1)	14(1)				
TXC3':	8(2)					
TXC3t:	8(1)	12(2)				
TXC4:	9(1)	14(1)				
TXC4':	9(2)					
TXC4t:	9(1)	12(2)				
TXC5:	9(1)	14(1)				
TXC5':	9(2)					
TXC5t:	9(1)	12(2)				
TXC6:	9(1)	14(1)				
TXC6':	9(2)					
TXC6t:	9(1)	12(2)				
TXC7:	9(1)	14(1)				
TXC7':	9(2)					
TXC7t:	9(1)	12(2)				
TXD0:	7(1)	8(2)				
TXD0':	8(1)	12(1)	14(1)			
TXD0a:	7(1)	14(1)				
TXD0b:	7(1)	14(1)				
TXD1:	7(1)	8(2)				
TXD1':	8(1)	12(1)	14(1)			
TXD1a:	7(1)	14(1)				
TXD1b:	7(1)	14(1)				
TXD2:	8(2)					
TXD2':	8(1)	12(1)	14(1)			
TXD3:	8(2)					
TXD3':	8(1)	12(1)	14(1)			
TXD4:	9(2)					
TXD4':	9(1)	12(1)	14(1)			
TXD6:	9(2)					
TXD6':	9(1)	12(1)	14(1)			
TXD7:	9(2)					
TXD7':	9(1)	12(1)	14(1)			
VCC:	1(1)	3(1)	4(2)	6(1)	7(1)	8(2)
	9(2)	10(2)	11(2)	13(1)	14(8)	
WriteDatH':	1(1)	2(1)				
XACK/:	1(1)	3(1)	14(1)			
zAS':	2(1)	3(1)	4(1)	6(1)	8(2)	9(2)
	10(2)	11(2)				
zC1k:	2(1)	3(1)	4(1)	6(1)	8(2)	9(2)
	10(2)	11(2)				
zCS':	1(3)	2(1)				
zData.0:	1(5)	3(1)	4(1)	6(1)	8(2)	9(2)
	10(2)	11(2)				
zData.1:	1(5)	3(1)	4(1)	6(1)	8(2)	9(2)
	10(2)	11(2)				
zData.2:	1(5)	3(1)	4(1)	6(1)	8(2)	9(2)
	10(2)	11(2)				
zData.3:	1(5)	3(1)	4(1)	6(1)	8(2)	9(2)
	10(2)	11(2)				
zData.4:	1(5)	3(1)	4(1)	6(1)	8(2)	9(2)
	10(2)	11(2)				
zData.5:	1(5)	3(1)	4(1)	6(1)	8(2)	9(2)
	10(2)	11(2)				
zData.6:	1(5)	3(1)	4(1)	6(1)	8(2)	9(2)
	10(2)	11(2)				
zData.7:	1(5)	3(1)	4(1)	6(1)	8(2)	9(2)
	10(2)	11(2)				
zDESbyte':	1(1)	6(1)				
zDESword':	1(1)	6(1)				
zDialer0':	1(1)	10(1)				
zDialer1':	1(1)	11(1)				
zDialer2':	1(1)	11(1)				
zDS':	1(1)	2(1)	3(1)	4(1)	6(1)	8(2)
	9(2)	10(2)	11(2)			
zEProm':	1(1)	4(1)				
zIE:	8(1)	9(1)				
zIntA':	2(1)	8(2)	9(2)			
zMisc':	1(1)	3(1)				
zModem':	1(1)	10(1)				
zRW:	2(1)	3(1)	4(1)	6(1)	8(2)	9(2)
	10(2)	11(2)				
zSCC0':	1(1)	8(1)				
zSCC1':	1(1)	8(1)				
zSCC2':	1(1)	9(1)				
zSCC3':	1(1)	9(1)				
zXACK':	1(1)	2(1)				

-/2/J:

#c0	#c1	#c12	#c13	#c17	#c21	#c24	#c25
#c29	#c33	#c36	#c37	#c38	#c39	#c40	#c41
#c42	#c43	#c44	#c45	#c46	#c47	#c48	#c49
#c5	#c50	#c51	#c52	#c53	#c54	#c55	#c56
#c57	#c58	#c59	#c60	#c61	#c62	#c63	#c64
#c65	#c66	#c67	#c68	#c69	#c70	#c71	#c72
#c73	#c74	#c75	#c76	#c77	#c78	#c79	#c80
#c81	#c82	#c83	#c84	#c85	#c86	#c87	#c88
#c9	#c90	#c91	#c92	#c93	#d1	#d10	#d11
#d12	#d13	#d14	#d15	#d16	#d17	#d18	#d19
#d2	#d3	#d4	#d5	#d6	#d7	#d8	#d9
#pu1	#r1	#r10	#r11	#r12	#r13	#r14	#r15
#r16	#r2	#r20	#r21	#r22	#r23	#r24	#r25
#r26	#r3	#r30	#r31	#r32	#r33	#r34	#r35
#r36	#r4	#r40	#r41	#r42	#r43	#r44	#r45
#r46	#r5	#r6	#r60	#r61	#r62	#r63	#r7
#r8	#v1	#v10	#v11	#v12	#v13	#v14	#v15
#v16	#v17	#v18	#v19	#v2	#v20	#v21	#v22
#v23	#v24	#v25	#v26	#v27	#v28	#v29	#v3
#v30	#v31	#v32	#v33	#v34	#v35	#v36	#v37
#v38	#v39	#v4	#v40	#v41	#v42	#v43	#v44
#v45	#v46	#v47	#v48	#v49	#v5	#v50	#v51
#v52	#v53	#v54	#v55	#v56	#v57	#v58	#v59
#v6	#v60	#v61	#v62	#v63	#v64	#v65	#v66
#v67	#v68	#v69	#v7	#v70	#v71	#v72	#v73
#v74	#v75	#v76	#v77	#v78	#v79	#v8	#v80
#v81	#v82	#v83	#v84	#v85	#v86	#v87	#v88
#v9	#w1	#w10	#w11	#w12	#w13	#w14	#w15
#w16	#w17	#w18	#w19	#w2	#w20	#w21	#w22
#w23	#w24	#w25	#w26	#w27	#w28	#w29	#w3
#w30	#w31	#w32	#w33	#w34	#w35	#w36	#w37
#w38	#w39	#w4	#w40	#w41	#w42	#w43	#w44
#w45	#w46	#w47	#w48	#w5	#w6	#w7	#w8
#w9							

10SIP/10/J1W:

#r50	#r51	#rp10	#rp8	#rp9	#s1	#s2
------	------	-------	------	------	-----	-----

2N3904/3/J1W:

#q1	#q2
-----	-----

64Kx8/28/N6W:

#u47	#u48	#u49	#u50	#u51	#u52	#u53	#u54
------	------	------	------	------	------	------	------

74393/14/N:

#u79	#u80
------	------

74ALS576/20/N:

#u68	#u69	#u82	#u83	#u84	#u85	#u86	#u87
------	------	------	------	------	------	------	------

74LS00/14/N:

#u73

74LS08/14/N:

#u61

74LS138/16/N:

#u62	#u70	#u78	#u88
------	------	------	------

74LS164/14/N:

#u67

74LS240/20/N:

#u75	#u76	#u77
------	------	------

74LS30/14/N:

#u90

74LS682/20/N:

#u74

74S140/14/N:

#u65

74S240/20/N:

#u55

74S374/20/N:

#u64	#u72
------	------

74S38/14/N:

#u57

74S74/14/N:

#u63 #u71

75188/14/J:

#u1 #u10 #u11 #u12 #u2 #u3 #u35 #u36
#u4 #u5 #u6 #u7 #u8 #u9

75189/14/N:

#u13 #u14 #u15 #u16 #u17 #u18 #u19 #u20
#u21 #u22 #u23 #u24 #u27 #u28 #u29 #u30
#u31 #u32 #u33 #u34

8SIP/8/J1W:

#r52 #r53 #r54 #r55 #rp0 #rp1 #rp11 #rp12
#rp13 #rp2 #rp3 #rp4 #rp5 #rp6 #rp7

8xSPST/16/J:

#u68

AMD27S18/16/N:

#u68

AMD27S27/22/N4W:

#u69 #u60

AMD27S29/20/N:

#u68

AmZ8030/40/J6W:

#u37 #u38 #u42 #u43

AmZ8036/40/J6W:

#u40 #u41 #u44 #u45 #u46 #u81

AmZ8068/40/N6W:

#u39

LM339A/14/J:

#u25 #u26

OSCILLATOR/14/N:

#u89

PLAT14/14/J:

#s3 #s4

Universa1

```

;File=DMisc-Rev-D.s11 Rev-D Date=10/16/84 Page=00 Reference MARKED BUILT
;File=DMisc01.s11 Rev-D Date=2/20/84 Page=01 MARKED BUILT
;File=DMisc02.s11 Rev-D Date=10/16/84 Page=02 MARKED BUILT
;File=DMisc03.s11 Rev-D Date=12/12/83 Page=03 MARKED BUILT
;File=DMisc04.s11 Rev-D Date=2/20/84 Page=04 MARKED BUILT
;File=DMisc06.s11 Rev-D Date=10/31/83 Page=06 MARKED BUILT
;File=DMisc08.s11 Rev-D Date=10/16/84 Page=06 MARKED BUILT
;File=DMisc07.s11 Rev-D Date=12/12/83 Page=07 MARKED BUILT
;File=DMisc08.s11 Rev-D Date=10/31/83 Page=08 MARKED BUILT
;File=DMisc09.s11 Rev-D Date=10/31/83 Page=09 MARKED BUILT
;File=DMisc10.s11 Rev-D Date=10/31/83 Page=10 MARKED BUILT
;File=DMisc11.s11 Rev-D Date=10/16/84 Page=11 MARKED BUILT
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;File=DMisc13.s11 Rev-D Date=12/12/83 Page=13 MARKED BUILT
;File=DMisc14.s11 Rev-D Date=10/16/84 Page=14 MARKED BUILT
;File=DMisc16.s11 Rev-D Date=2/20/84 Page=15 Reference MARKED BUILT
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;File=DMisc23.s11 Rev-D Date=10/16/84 Page=23 Reference MARKED BUILT
; Implicitly generated wiring ...

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#r44: (-/2/J) ;
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#r46: (-/2/J) ; 1,2
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#r52: (8SIP/8/J1W) ; 8
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#rp11: (8SIP/8/J1W) ;
#rp12: (8SIP/8/J1W) ; 8
#rp13: (8SIP/8/J1W) ; 2,3,4,5
#rp2: (8SIP/8/J1W) ;
#rp3: (8SIP/8/J1W) ;
#rp4: (8SIP/8/J1W) ;
#rp5: (8SIP/8/J1W) ;
#rp6: (8SIP/8/J1W) ;
#rp7: (8SIP/8/J1W) ;
#rp8: (10SIP/10/J1W) ; 10
#rp9: (10SIP/10/J1W) ; 10
#s1: (10SIP/10/J1W) ;
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#s3: (PLAT14/14/J) ; 6,8,9
#s4: (PLAT14/14/J) ; 6,8,9
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#u36: (75188/14/J) ;
#u37: (AmZ8030/40/J6W) ; 10,11,29,30
#u38: (AmZ8030/40/J6W) ; 10,11,29,30
#u39: (AmZ8068/40/N6W) ; 2,3,4,5,6,7,8,9,10,12,15,31,32,33,34,35,36,37,38,39
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#u45: (AmZ8036/40/J6W) ; 18
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#u47: (64Kx8/28/N6W) ;
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#u53: (64Kx8/28/N6W) ;
#u54: (64Kx8/28/N6W) ;
#u55: (74S240/20/N) ;
#u56: (AMD27S29/20/N) ; 9,11,12
#u57: (74S38/14/N) ;
#u58: (AMD27S18/16/N) ;
#u59: (AMD27S27/22/N4W) ;
#u6: (75188/14/J) ;
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#u61: (74LS08/14/N) ; 11,12,13
#u62: (74LS138/16/N) ;
#u63: (74S74/14/N) ; 6
#u64: (74S374/20/N) ;
#u65: (74S140/14/N) ; 3,11
#u66: (8xSPST/16/J) ;
#u67: (74LS164/14/N) ; 3,4,5,6,11,12,13
#u68: (74ALS576/20/N) ;
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#u7: (75188/14/J) ;
#u70: (74LS138/16/N) ; 7,9,11,15
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#u72: (74S374/20/N) ;
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#u89: (OSCILLATOR/14/N) ; 1,2,3,5,6,9,10,11,12,13
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#u90: (74LS30/14/N) ; 9,10,13
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CALIBRATE: <1> ; INSTALL welder nose, board wiring side up ...

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+12V: <61> {1848}			
#r5.11 {68,144}	#d19.11 {132,144}	#u2.141 {108,224}	#u1.141 {172,224}
#u3.141 {244,224}	#u4.141 {292,224}	#u6.141 {308,224}	#u5.141 {372,224}
#u7.141 {444,224}	#u8.141 {492,224}	#c92.11 {492,316}	#c91.11 {524,316}
#u36.141 {524,224}	#u10.141 {816,224}	#u36.141 {800,224}	#u12.141 {752,224}
#r53.11 {728,144}	#u11.141 {736,224}	#u9.141 {640,224}	E108 {432,0}
E107 {428,0}			
-12V: <62> {2320}			
#rp10.11 {40,316}	#rp9.11 {36,316}	#rp8.11 {32,316}	E180 {208,4}
E179 {204,4}	#r6.20 {128,144}	#r4.20 {112,144}	#u2.11 {96,224}
#u1.11 {160,224}	#u3.11 {232,224}	#u4.11 {280,224}	#u6.11 {296,224}
#u5.11 {360,224}	#u7.11 {432,224}	#u8.11 {480,224}	#u36.11 {512,224}
#u9.11 {528,224}	#u11.11 {724,224}	#r52.11 {724,144}	#r50.11 {708,144}
#u12.11 {740,224}	#u36.11 {788,224}	#u10.11 {804,224}	#rp0.11 {864,224}
#rp1.11 {868,224}	#rp2.11 {872,224}	#rp3.11 {876,224}	#rp7.11 {880,224}
#rp6.11 {884,224}	#rp5.11 {888,224}	#rp4.11 {892,224}	#c93.11 {608,316}
#c91.20 {636,316}			
100ns': <66> {324}			
#u65.131 {360,68}	#u65.121 {360,72}	#u65.101 {360,80}	#u65.91 {360,84}
#u64.111 {312,100}	#u72.111 {296,100}	#u63.90 {280,84}	#u60.161 {264,88}
#u69.161 {244,88}	#u73.131 {108,68}		
12.8us: <667> {408}			
#u79.90 {840,84}	#u41.130 {460,112}		
26.6us: <619> {684}			
#u61.51 {164,80}	#u79.80 {840,88}		
3.2us: <692> {508}			
#u79.110 {840,76}	#u67.81 {344,88}		
AD10/: <271> {476}			
#u84.21 {380,68}	#u72.171 {296,76}	#u62.51 {112,80}	#u70.61 {48,84}
E128 {0,4}			
AD11/: <259> {448}			
#u83.91 {364,96}	#u72.141 {296,88}	#u62.11 {112,64}	#u70.11 {48,64}
E130 {8,4}			
AD12/: <258> {436}			
#u83.81 {364,92}	#u72.131 {296,92}	#u62.21 {112,68}	#u70.21 {48,68}
E132 {16,4}			
AD13/: <257> {432}			
#u83.71 {364,88}	#u72.81 {284,92}	#u62.31 {112,72}	#u70.31 {48,72}
E134 {24,4}			
AD14/: <580> {436}			
E257 {4,8}	#u83.61 {384,84}		
AD15/: <575> {428}			
E258 {8,8}	#u83.51 {364,80}		
AD16/: <464> {216}			
E255 {608,4}	#u83.41 {364,76}		
AD17/: <576> {428}			
E256 {0,8}	#u83.31 {364,72}		
ADRO/: <390> {544}			
#u82.41 {444,76}	E157 {116,4}	#u75.171 {44,76}	
ADR1/: <403> {520}			
#u85.91 {396,96}	#u75.151 {44,84}	E158 {120,4}	
ADR2/: <399> {504}			
#u85.81 {396,92}	#u75.131 {44,92}	E155 {108,4}	
ADR3/: <416> {528}			
#u85.71 {396,88}	#u75.111 {44,100}	E156 {112,4}	
ADR4/: <404> {528}			
#u85.61 {396,84}	#u75.81 {32,92}	E153 {100,4}	
ADR5/: <401> {520}			
#u85.51 {396,80}	E154 {104,4}	#u75.61 {32,84}	
ADR6/: <375> {496}			
#u85.41 {396,76}	#u75.41 {32,76}	E151 {92,4}	
ADR7/: <370> {496}			
#u85.31 {396,72}	E152 {96,4}	#u75.21 {32,68}	
ADR8/: <371> {504}			
#u85.21 {396,68}	E149 {84,4}	#u74.171 {28,76}	
ADR9/: <384> {504}			
#u84.91 {380,96}	#u74.151 {28,84}	E150 {88,4}	
ADRA/: <380> {488}			

#u84.81 {380,92}	#u74.131 {28,92}	E147 {76,4}	
ADRB/: <393> (512) #u84.71 {380,88}	#u74.111 {28,100}	E148 {80,4}	
ADRC/: <385> (512) #u84.81 {380,84}	#u74.81 {18,92}	E146 {68,4}	
ADRD/: <381> (504) #u84.51 {380,80}	#u74.61 {16,84}	E148 {72,4}	
ADRE/: <355> (480) #u84.41 {380,76}	#u74.41 {16,76}	E143 {60,4}	
ADRF/: <351> (480) #u84.31 {380,72}	#u74.21 {16,68}	E144 {64,4}	
BdSel: <53> (172) #u72.31 {284,72} #u67.3o {128,72}	#u61.11 {164,64}	#rp11.21 {160,68}	#rp11.31 {160,72}
BHEN/: <387> (144) E127 {508,0}	#u82.51 {444,80}		
Boot': <317> (556) #rp12.71 {504,88}	#u41.19o {460,136}	#u25.111 {16,156}	
BPRN/: <33> (92) #u82.31 {444,72}	E115 {460,0}	E118 {464,0}	
CCLK/: <577> (432) E131 {12,4}	#u65.8o {360,88}		
CD00: <294> (80) #s1.61 {544,336}	#u44.22o {584,296}		
CD01: <293> (80) #s1.71 {544,340}	#u44.21o {584,300}		
CD02: <244> (60) #s1.81 {544,344}	#u44.20o {560,300}		
CD10: <538> (344) #s2.21 {540,320}	#u45.22o {860,296}		
CD11: <637> (344) #s2.31 {540,324}	#u45.21o {860,300}		
CD12: <527> (324) #s2.41 {540,328}	#u45.20o {836,300}		
CD20: <452> (204) #s2.61 {540,336}	#u46.22o {704,296}		
CD21: <451> (204) #s2.71 {540,340}	#u46.21o {704,300}		
CD22: <433> (184) #s2.81 {540,344}	#u46.20o {680,300}		
CI0Int': <68> (912) #u45.24o {860,288} #rp11.61 {160,84}	#u46.24o {704,288} #u58.121 {156,80}	#u40.24o {612,288}	#u44.24o {584,288}
CM0: <312> (92) #s1.21 {544,320}	#u40.22o {612,296}		
CM1: <311> (92) #s1.31 {544,324}	#u40.21o {612,300}		
CM2: <275> (72) #s1.41 {544,328}	#u40.20o {588,300}		
CmdSel: <72> (140) #u71.11 {212,64}	#u61.3o {164,72}	#u73.41 {96,76}	#u73.11 {96,64}
CTSO: <558> (380) C339 {332,40}	#u13.131 {140,228}		
CTSO': <310> (92) #u13.11o {140,236}	#u37.181 {176,292}		
CTSOt: <417> (896) #rp0.51 {864,240}	#u13.121 {140,232}	#v4.11 {48,304}	
CTS1: <544> (348) C327 {284,40}	#u14.131 {124,228}		
CTS1': <378> (136) #u14.11o {124,236}	#u37.221 {200,296}		
CTS1t: <528> (880) #rp1.51 {868,240}	#v15.11 {608,304}	#u14.121 {124,232}	
CTS2: <459> (212) C315 {236,40}	#u15.131 {260,228}		
CTS2': <346> (112) #u15.11o {260,236}	#u38.181 {204,292}		
CTS2t: <435> (748)			

#rp2.61 {872,240}	#v26.11 {762,304}	#u16.121 {260,232}	
CTS3: <603> (276) C303 {188,40}	#u16.131 {276,228}		
CTS3': <337> (108) #u16.11o {278,236}	#u38.221 {228,296}		
CTS3t: <448> (744) #rp3.61 {876,240}	#v37.11 {400,308}	#u16.121 {276,232}	
CTS4: <623> (320) C439 {220,44}	#u17.131 {366,228}		
CTS4': <286> (78) #u17.11o {366,236}	#u42.181 {378,292}		
CTS4t: <602> (812) #rp4.61 {892,240}	#u17.121 {366,232}	#v48.11 {180,304}	
CTS6: <646> (362) C427 {172,44}	#u18.131 {340,228}		
CTS6': <368> (120) #u18.11o {340,236}	#u42.221 {400,296}		
CTS6t: <477> (684) #rp6.61 {888,240}	#v69.11 {496,304}	#u18.121 {340,232}	
CTS6: <694> (520) C416 {124,44}	#u19.131 {460,228}		
CTS6': <348> (112) #u19.11o {460,236}	#u43.181 {404,292}		
CTS6t: <301> (618) #u19.121 {460,232}	#rp6.61 {884,240}	#v70.11 {864,304}	
CTS7: <608> (584) C403 {76,44}	#u20.131 {476,228}		
CTS7': <338> (108) #u20.11o {476,236}	#u43.221 {428,296}		
CTS7t: <496> (676) #rp7.61 {880,240}	#u20.121 {476,232}	#v81.11 {288,308}	
DAT0/: <212> (324) #u87.91 {412,96}	#u69.12o {208,96}	#u77.171 {192,76}	E173 {180,4}
DAT1/: <149> (316) #u87.81 {412,92}	#u69.13o {208,92}	#u77.161 {192,84}	E174 {184,4}
DAT2/: <139> (332) #u87.71 {412,88}	#u69.14o {208,88}	#u77.131 {192,92}	E171 {172,4}
DAT3/: <200> (348) #u87.61 {412,84}	#u69.15o {208,84}	#u77.111 {192,100}	E172 {176,4}
DAT4/: <218> (348) #u87.61 {412,80}	#u69.16o {208,80}	#u77.81 {180,92}	E169 {164,4}
DAT5/: <213> (332) #u87.41 {412,76}	#u69.17o {208,76}	#u77.61 {180,84}	E170 {168,4}
DAT6/: <199> (332) #u87.31 {412,72}	#u69.18o {208,72}	#u77.41 {180,76}	E167 {166,4}
DAT7/: <176> (316) #u87.21 {412,68}	#u69.19o {208,68}	#u77.21 {180,68}	E168 {160,4}
DAT8/: <216> (516) #u86.91 {428,96}	#u68.12o {92,96}	#u76.171 {76,76}	E165 {148,4}
DAT9/: <150> (516) #u86.81 {428,92}	#u68.13o {92,92}	#u76.151 {76,84}	E166 {162,4}
DATA/: <143> (508) #u86.71 {428,88}	#u68.14o {92,88}	#u76.131 {76,92}	E163 {140,4}
DATB/: <202> (528) #u76.111 {76,100}	#u68.15o {92,84}	E164 {144,4}	#u86.61 {428,84}
DATC/: <219> (532) #u86.61 {428,80}	#u68.16o {92,80}	#u76.81 {64,92}	E161 {132,4}
DATD/: <216> (516) #u76.61 {64,84}	#u68.17o {92,76}	E162 {136,4}	#u86.41 {428,76}
DATE/: <201> (500) #u86.31 {428,72}	#u68.18o {92,72}	#u76.41 {64,76}	E159 {124,4}
DATF/: <186> (492) #u86.21 {428,68}	#u68.19o {92,68}	#u76.21 {64,68}	E160 {128,4}
DCD0: <557> (380) C341 {340,40}	#u27.11 {144,224}		
DCD0': <318> (96) #u27.3o {144,232}	#u37.191 {176,296}		

DCD0t: <439> (816) #rp0.4i {864,236}	#u27.2i {144,228}	#v5.1i {32,304}
DCD1: <538> (344) C329 {292,40}	#u27.4i {144,236}	
DCD1': <347> (112) #u27.6o {144,244}	#u37.21i {200,300}	
DCD1t: <519> (866) #rp1.4i {868,236}	#v16.1i {624,304}	#u27.5i {144,240}
DCD2: <509> (288) C317 {244,40}	#u27.10i {156,240}	
DCD2': <319> (96) #u27.8o {156,248}	#u38.19i {204,296}	
DCD2t: <454> (844) #rp2.4i {872,236}	#v27.1i {736,304}	#u27.9i {156,244}
DCD3: <475> (228) C305 {196,40}	#u27.13i {156,228}	
DCD3': <377> (138) #u27.11o {168,236}	#u38.21i {228,300}	
DCD3t: <533> (868) #rp3.4i {876,236}	#v38.1i {416,308}	#u27.12i {156,232}
DCD4: <494> (264) C441 {228,44}	#u32.1i {312,224}	
DCD4': <368> (128) #u32.3o {312,232}	#u42.19i {376,296}	
DCD4t: <483> (832) #rp4.4i {892,236}	#u32.2i {312,228}	#v49.1i {144,304}
DCD5: <525> (324) C429 {180,44}	#u32.4i {312,236}	
DCD5': <388> (144) #u32.6o {312,244}	#u42.21i {400,300}	
DCD5t: <497> (708) #rp5.4i {888,236}	#v60.1i {512,304}	#u32.5i {312,240}
DCD6: <562> (388) C417 {132,44}	#u32.10i {324,240}	
DCD6': <369> (128) #u32.8o {324,248}	#u43.19i {404,296}	
DCD6t: <336> (672) #u32.9i {324,244}	#rp6.4i {884,236}	#v71.1i {848,304}
DCD7: <572> (424) C405 {84,44}	#u32.13i {324,228}	
DCD7': <421> (168) #u32.11o {324,236}	#u43.21i {428,300}	
DCD7t: <325> (656) #rp7.4i {880,236}	#u32.12i {324,232}	#v82.1i {304,308}
DI00: <254> (64) #u21.3o {544,232}	#u44.15o {560,280}	
DI00': <614> (636) C533 {84,48}	#u21.1i {544,224}	
DI00t: <443> (632) #rp8.9i {32,348}	#w1.1i {432,312}	#u21.2i {544,228}
DI01: <227> (48) #u21.6o {544,244}	#u44.14o {560,276}	
DI01': <615> (640) C535 {92,48}	#u21.4i {544,236}	
DI01t: <447> (616) #rp8.8i {32,344}	#w2.1i {416,312}	#u21.5i {544,240}
DI02: <161> (28) #u21.8o {556,248}	#u44.13o {560,272}	
DI02': <616> (648) C537 {100,48}	#u21.10i {556,240}	
DI02t: <426> (620) #rp8.7i {32,340}	#w3.1i {448,312}	#u21.9i {556,244}
DI03: <208> (36) #u21.11o {556,236}	#u44.12o {560,268}	
DI03': <613> (628) C539 {108,48}	#u21.13i {556,228}	
DI03t: <405> (628) #rp8.6i {32,336}	#w4.1i {480,312}	#u21.12i {556,232}

DI04: <321> (96) #u33.3o {496,232}	#u44.11o {560,264}	
DI04': <602> (568) C541 {116,48}	#u33.11 {496,224}	
DI04t: <356> (568) #rp8.6i {32,332}	#w5.11 {464,312}	#u33.21 {496,228}
DI05: <295> (80) #u33.8o {496,244}	#u44.10o {560,260}	
DI05': <803> (560) C543 {124,48}	#u33.41 {496,236}	
DI05t: <334> (816) #rp8.4i {32,328}	#w6.11 {528,312}	#u33.6i {496,240}
DI06: <245> (60) #u33.8o {508,248}	#u44.9o {560,256}	
DI06': <605> (568) C546 {132,48}	#u33.10i {508,240}	
DI06t: <297> (556) #rp8.3i {32,324}	#w7.11 {496,312}	#u33.9i {508,244}
DI07: <269> (68) #u33.11o {508,236}	#u44.8o {560,262}	
DI07': <599> (548) C547 {140,48}	#u33.13i {508,228}	
DI07t: <302> (572) #rp8.2i {32,320}	#w8.11 {512,312}	#u33.12i {508,232}
DI10: <256> (64) #u22.3o {820,232}	#u45.15o {836,280}	
DI10': <634> (976) C517 {20,48}	#u22.11 {820,224}	
DI10t: <422> (904) #u22.21 {820,228}	#w17.11 {736,312}	#rp9.9i {36,348}
DI11: <228> (48) #u22.6o {820,244}	#u45.14o {836,276}	
DI11': <635> (980) C519 {28,48}	#u22.4i {820,236}	
DI11t: <386> (888) #u22.5i {820,240}	#w18.11 {752,312}	#rp9.8i {36,344}
DI12: <162> (28) #u22.8o {832,248}	#u45.13o {836,272}	
DI12': <636> (988) C521 {36,48}	#u22.10i {832,240}	
DI12t: <430> (892) #u22.9i {832,244}	#w19.11 {720,312}	#rp9.7i {36,340}
DI13: <209> (36) #u22.11o {832,236}	#u45.12o {836,268}	
DI13': <633> (968) C523 {44,48}	#u22.13i {832,228}	
DI13t: <474> (900) #u22.12i {832,232}	#w20.11 {688,312}	#rp9.6i {36,336}
DI14: <323> (96) #u34.3o {772,232}	#u45.11o {836,264}	
DI14': <627> (896) C525 {52,48}	#u34.1i {772,224}	
DI14t: <402> (840) #u34.2i {772,228}	#w21.11 {704,312}	#rp9.5i {36,332}
DI15: <296> (80) #u34.6o {772,244}	#u45.10o {836,260}	
DI15': <628> (900) C527 {60,48}	#u34.4i {772,236}	
DI15t: <453> (824) #u34.5i {772,240}	#w22.11 {640,312}	#rp9.4i {36,328}
DI16: <247> (60) #u34.8o {784,248}	#u45.9o {836,256}	
DI16': <629> (908) C529 {68,48}	#u34.10i {784,240}	
DI16t: <429> (828) #u34.9i {784,244}	#w23.11 {672,312}	#rp9.3i {36,324}
DI17: <270> (68)		

#u34.11o {784,236}	#u46.8o {836,252}	
DI17': <626> (892) C631 {76,48}	#u34.12i {784,232}	
DI17t: <483> (840) #u34.13i {784,228}	#w24.1i {656,312}	#rp9.2i {36,320}
DI20: <289> (78) #u23.3o {708,232}	#u46.16o {680,280}	
DI20': <670> (420) C501 {468,44}	#u23.1i {708,224}	
DI20t: <411> (940) #rp10.9i {40,348}	#w33.1i {784,312}	#u23.2i {708,228}
DI21: <246> (60) #u23.6o {708,244}	#u46.14o {680,276}	
DI21': <673> (424) C503 {476,44}	#u23.4i {708,236}	
DI21t: <376> (892) #rp10.8i {40,344}	#w34.1i {768,312}	#u23.5i {708,240}
DI22: <265> (64) #u23.8o {720,248}	#u46.13o {680,272}	
DI22': <678> (432) C505 {484,44}	#u23.10i {720,240}	
DI22t: <394> (924) #rp10.7i {40,340}	#u23.9i {720,244}	#w35.1i {800,312}
DI23: <278> (72) #u23.11o {720,236}	#u46.12o {680,268}	
DI23': <668> (412) C507 {492,44}	#u23.13i {720,228}	
DI23t: <441> (976) #rp10.6i {40,336}	#u23.12i {720,232}	#w36.1i {832,312}
DI24: <341> (108) #u24.3o {756,232}	#u46.11o {680,264}	
DI24': <581> (436) C509 {500,44}	#u24.1i {756,224}	
DI24t: <392> (940) #rp10.5i {40,332}	#w37.1i {816,312}	#u24.2i {756,228}
DI25: <313> (92) #u24.6o {756,244}	#u46.10o {680,260}	
DI25': <584> (440) C511 {508,44}	#u24.4i {756,236}	
DI25t: <445> (1000) #rp10.4i {40,328}	#u24.5i {756,240}	#w38.1i {880,312}
DI26: <322> (96) #u24.8o {768,248}	#u46.9o {680,256}	
DI26': <631> (966) C513 {4,48}	#u24.10i {768,240}	
DI26t: <395> (966) #rp10.3i {40,324}	#u24.9i {768,244}	#w39.1i {848,312}
DI27: <332> (104) #u24.11o {768,236}	#u46.8o {680,252}	
DI27': <630> (936) C515 {12,48}	#u24.13i {768,228}	
DI27t: <427> (992) #rp10.2i {40,320}	#u24.12i {768,232}	#w40.1i {864,312}
DMisc01.sil+1: <146> (24) #u73.3o {96,72}	#u68.1i {80,64}	
DMisc01.sil+10: <195> (32) #u74.12i {28,96}	#u66.12o {12,80}	
DMisc01.sil+11: <110> (20) #u74.14i {28,88}	#u66.11o {12,84}	
DMisc01.sil+12: <147> (24) #u74.16i {28,80}	#u66.10o {12,88}	
DMisc01.sil+13: <203> (36) #u74.18i {28,72}	#u66.9o {12,92}	
DMisc01.sil+2: <43> (104) #u74.19o {28,68}	#u57.2i {128,68}	#u57.1i {128,64}
DMisc01.sil+3: <357> (120) #u73.6o {96,84}	#u69.1i {196,64}	

DMisc01.s11+4: <283> (76)
 #u61.21 {164,88} #u73.8o {108,88}

DMisc01.s11+6: <30> (88)
 #u71.6o {212,80} #u67.6i {128,80} #u57.4i {128,76}

DMisc01.s11+6: <70> (12)
 #u74.3i {16,72} #u66.16o {12,64}

DMisc01.s11+7: <76> (18)
 #u74.6i {16,80} #u66.15o {12,68}

DMisc01.s11+8: <111> (20)
 #u74.7i {16,88} #u66.14o {12,72}

DMisc01.s11+9: <148> (24)
 #u74.9i {16,96} #u66.13o {12,76}

DMisc02.s11+1: <129> (48)
 #u60.19i {264,76} #u59.19i {244,76} #u59.7o {228,88}

DMisc02.s11+10: <130> (52)
 #u59.3i {228,72} #u60.3i {248,72} #u59.13o {244,100}

DMisc02.s11+11: <412> (184)
 #u63.3i {268,72} #u73.11o {108,76}

DMisc02.s11+12: <124> (20)
 #u56.18i {328,72} #u64.19o {312,68}

DMisc02.s11+13: <123> (20)
 #u56.17i {328,76} #u64.16o {312,80}

DMisc02.s11+14: <122> (20)
 #u56.16i {328,80} #u64.15o {312,84}

DMisc02.s11+15: <121> (20)
 #u56.5i {316,80} #u64.12o {312,96}

DMisc02.s11+16: <204> (36)
 #u56.4i {316,76} #u64.9o {300,96}

DMisc02.s11+17: <154> (28)
 #u56.3i {316,72} #u64.6o {300,84}

DMisc02.s11+18: <153> (28)
 #u56.2i {316,68} #u64.5o {300,80}

DMisc02.s11+19: <120> (20)
 #u56.1i {316,64} #u64.2o {300,68}

DMisc02.s11+2: <132> (56)
 #u60.20i {264,72} #u59.20i {244,72} #u59.8o {228,92}

DMisc02.s11+20: <119> (20)
 #u64.3i {300,72} #u72.2o {284,68}

DMisc02.s11+21: <118> (20)
 #u64.4i {300,76} #u72.5o {284,80}

DMisc02.s11+22: <117> (20)
 #u64.7i {300,88} #u72.6o {284,84}

DMisc02.s11+23: <116> (20)
 #u64.8i {300,92} #u72.9o {284,96}

DMisc02.s11+24: <115> (20)
 #u64.13i {312,92} #u72.12o {296,96}

DMisc02.s11+25: <114> (20)
 #u64.14i {312,88} #u72.15o {296,84}

DMisc02.s11+26: <113> (20)
 #u64.17i {312,76} #u72.16o {296,80}

DMisc02.s11+27: <112> (20)
 #u64.18i {312,72} #u72.19o {296,68}

DMisc02.s11+3: <134> (64)
 #u60.21i {264,68} #u59.21i {244,68} #u59.9o {228,96}

DMisc02.s11+4: <131> (56)
 #u60.1i {248,64} #u59.1i {228,64} #u59.10o {228,100}

DMisc02.s11+5: <133> (60)
 #u59.2i {228,68} #u60.2i {248,68} #u59.12o {244,104}

DMisc02.s11+6: <137> (96)
 #u59.5i {228,80} #u60.5i {248,80} #u56.7o {316,88}

DMisc02.s11+7: <136> (96)
 #u59.4i {228,76} #u60.4i {248,76} #u56.6o {316,84}

DMisc02.s11+8: <135> (96)
 #u59.6i {228,84} #u60.6i {248,84} #u56.8o {316,92}

DMisc02.s11+9: <152> (28)
 #u63.2i {268,68} #u60.15o {264,92}

DMisc03.s11+1: <3> (4)
 #u65.6o {348,84} #u67.9i {344,84}

DMisc03.s11+2: <196> (32)
 #u41.20o {460,140} #u41.12o {460,108}

DMisc06.s11+1: <101> (572)
 #u79.11 {828,64} #u63.12i {280,72} #u63.8o {280,88}

DMisc06.s11+10: <156> (28)
 #u80.3o {796,72} #u90.12i {824,72}

DMisc06.s11+11: <155> (28)
 #u79.6o {828,84} #u79.13i {840,88}

DMisc06.s11+12: <107> (984)
 #d18.2o {904,64} #r1.1i {876,64} #r2.1i {880,64} #u25.10i {16,160}

DMisc06.s11+13: <104> (952)
 #r3.2o {866,64} #u80.12i {808,72} #u80.2i {796,88} #q1.3i {0,152}

DMisc06.s11+14: <617> (652)
 #u61.6o {164,84} #u80.1i {796,64}

DMisc06.s11+15: <106> (956)
 #r2.2o {872,64} #u25.13o {16,148} #q1.2i {0,148}

DMisc06.s11+16: <8> (24)
 #q2.2i {64,148} #r5.2o {80,144} #d17.1i {84,144}

DMisc06.s11+17: <4> (4)
 #r4.1i {100,144} #d17.2o {96,144}

DMisc06.s11+18: <239> (60)
 #r6.1i {116,144} #q2.3i {64,152}

DMisc06.s11+19: <78> (96)
 #d19.2o {144,144} #q2.1i {64,144} #c0.1i {48,144}

DMisc06.s11+2: <69> (704)
 #u57.13i {140,68} #u57.12i {140,72} #u61.4i {164,76} #u90.8o {824,88}

DMisc06.s11+20: <217> (128)
 #c0.2o {60,144} #r7.1i {148,144} #u26.11i {176,156}

DMisc06.s11+21: <484> (248)
 #u61.8o {176,88} #u39.25i {44,204}

DMisc06.s11+22: <125> (20)
 #r8.1i {180,144} #u26.10i {176,160}

DMisc06.s11+3: <6> (4)
 #u90.4i {812,76} #u80.11o {808,76}

DMisc06.s11+4: <71> (12)
 #u90.3i {812,72} #u80.10o {808,80}

DMisc06.s11+6: <127> (20)
 #u90.2i {812,68} #u80.9o {808,84}

DMisc06.s11+6: <158> (28)
 #u90.1i {812,64} #u80.8o {808,88}

DMisc06.s11+7: <76> (36)
 #u80.13i {808,68} #u90.5i {812,80} #u80.6o {796,84}

DMisc06.s11+8: <126> (20)
 #u80.5o {796,80} #u90.6i {812,84}

DMisc06.s11+9: <157> (28)
 #u80.4o {796,76} #u90.11i {824,76}

DMisc07.s11+1: <57> (456)
 #d2.2o {256,144} #r10.1i {260,144} #r50.2i {708,148}

DMisc07.s11+10: <232> (584)
 #r55.7i {716,168} #r45.2o {688,144} #u26.9i {176,164}

DMisc07.s11+11: <100> (524)
 #u55.18o {704,152} #u55.4i {692,156} #d1.1i {196,144}

DMisc07.s11+12: <82> (332)
 #u55.14o {704,168} #u55.8i {692,172} #d5.1i {404,144}

DMisc07.s11+13: <81> (320)
 #d9.1i {420,144} #u55.9o {692,176} #u55.13i {704,172}

DMisc07.s11+14: <79> (96)
 #d13.1i {628,144} #u55.5o {692,160} #u55.17i {704,156}

DMisc07.s11+15: <220> (748)
 #u26.9i {16,164} #r55.4i {716,156} #r35.2o {744,144}

DMisc07.s11+16: <233> (768)
 #r34.2o {760,144} #r54.4i {720,156} #u26.8i {16,168}

DMisc07.s11+17: <335> (664)
 #r40.2o {808,144} #r54.5i {720,160} #u26.6i {164,164}

DMisc07.s11+18: <366> (684)
 #u26.7i {164,168} #r55.5i {716,160} #r41.2o {824,144}

DMisc07.s11+19: <391> (700)

#u28.6i {184,180}	#r55.6i {718,184}	#r43.2o {840,144}
DMisc07.s11+2: <214> (478)	#r50.3i {708,182}	#r11.1i {278,144}
#r50.3i {708,182}	#d4.2o {240,144}	
DMisc07.s11+20: <408> (720)	#r42.2o {868,144}	#r54.8i {720,184}
#r42.2o {868,144}	#u26.4i {184,168}	
DMisc07.s11+21: <440> (920)	#r32.2o {904,144}	#r54.3i {720,182}
#r32.2o {904,144}	#u26.6i {4,184}	
DMisc07.s11+22: <283> (792)	#r55.3i {718,182}	#u26.7i {4,188}
#r55.3i {718,182}	#r33.2o {12,224}	
DMisc07.s11+23: <308> (812)	#r55.2i {718,148}	#u26.5i {4,180}
#r55.2i {718,148}	#r31.2o {28,224}	
DMisc07.s11+24: <344> (832)	#r30.2o {44,224}	#u26.4i {4,168}
#r30.2o {44,224}	#r54.2i {720,148}	
DMisc07.s11+25: <208> (38)	#d2.1i {244,144}	#d1.2o {208,144}
#d2.1i {244,144}		
DMisc07.s11+26: <7> (4)	#d4.1i {228,144}	#d3.2o {224,144}
#d4.1i {228,144}		
DMisc07.s11+27: <593> (508)	#d3.1i {212,144}	#u55.18o {704,160}
#d3.1i {212,144}		
DMisc07.s11+28: <543> (348)	#d7.1i {388,144}	#u55.12o {704,178}
#d7.1i {388,144}		
DMisc07.s11+29: <160> (28)	#d8.1i {372,144}	#d7.2o {400,144}
#d8.1i {372,144}		
DMisc07.s11+3: <250> (400)	#r13.1i {324,144}	#d8.2o {384,144}
#r13.1i {324,144}	#r60.6i {708,160}	
DMisc07.s11+30: <241> (60)	#d6.1i {356,144}	#d6.2o {416,144}
#d6.1i {356,144}		
DMisc07.s11+31: <205> (36)	#d10.1i {468,144}	#d9.2o {432,144}
#d10.1i {468,144}		
DMisc07.s11+32: <8> (4)	#d12.1i {452,144}	#d11.2o {448,144}
#d12.1i {452,144}		
DMisc07.s11+33: <504> (280)	#d11.1i {436,144}	#u55.7o {692,168}
#d11.1i {436,144}		
DMisc07.s11+34: <303> (88)	#d15.1i {612,144}	#u55.3o {692,162}
#d15.1i {612,144}		
DMisc07.s11+35: <159> (28)	#d16.1i {596,144}	#d15.2o {624,144}
#d16.1i {596,144}		
DMisc07.s11+36: <240> (60)	#d14.1i {580,144}	#d13.2o {640,144}
#d14.1i {580,144}		
DMisc07.s11+4: <184> (380)	#r12.1i {340,144}	#d6.2o {368,144}
#r12.1i {340,144}	#r50.4i {708,156}	
DMisc07.s11+5: <54> (248)	#d10.2o {480,144}	#r20.1i {484,144}
#d10.2o {480,144}	#r50.6i {708,164}	
DMisc07.s11+6: <211> (268)	#r50.7i {708,168}	#r21.1i {500,144}
#r50.7i {708,168}	#d12.2o {464,144}	
DMisc07.s11+7: <248> (192)	#r23.1i {548,144}	#d16.2o {608,144}
#r23.1i {548,144}	#r50.9i {708,176}	
DMisc07.s11+8: <164> (172)	#r22.1i {564,144}	#d14.2o {592,144}
#r22.1i {564,144}	#r50.8i {708,172}	
DMisc07.s11+9: <282> (592)	#r54.7i {720,168}	#r44.2o {672,144}
#r54.7i {720,168}	#u26.8i {176,168}	
DMisc08.s11+1: <197> (32)	#u38.7i {204,248}	#u37.6o {176,244}
#u38.7i {204,248}		
DMisc09.s11+1: <198> (32)	#u43.7i {404,248}	#u42.6o {376,244}
#u43.7i {404,248}		
D000: <340> (108)	#u9.2i {528,228}	#u44.26o {584,280}
#u9.2i {528,228}		
D000': <372> (744)	#w9.1i {576,312}	#u9.3o {528,232}
#w9.1i {576,312}	C536 {96,48}	
D001: <37> (96)	#u44.27o {584,276}	#u9.5i {528,240}
#u44.27o {584,276}	#u9.4i {528,236}	
D001': <328> (720)	#w10.1i {560,312}	#u9.6o {528,244}
#w10.1i {560,312}	C538 {104,48}	
D002: <22> (76)	#u9.10i {540,240}	#u9.9i {540,244}
#u9.10i {540,240}	#u44.28o {584,272}	
D002': <272> (696)	#w11.1i {544,312}	#u9.8o {540,248}
#w11.1i {544,312}	C540 {112,48}	

D003: <28> (84)	#u9.131 {540,228}	#u9.121 {540,232}	#u44.29o {584,268}
D003': <547> (788)	#u9.11o {540,236}	#w12.11 {268,316}	C542 {120,48}
D004: <339> (108)	#u36.21 {512,228}	#u44.30o {584,264}	
D004': <541> (736)	#u36.3o {512,232}	#w13.11 {252,316}	C544 {128,48}
D005: <36> (96)	#u44.31o {584,260}	#u36.51 {512,240}	#u36.41 {512,238}
D005': <532> (716)	#u36.8o {512,244}	#w14.11 {204,316}	C546 {136,48}
D006: <23> (76)	#u36.10i {524,240}	#u36.91 {524,244}	#u44.32o {584,266}
D006': <539> (716)	#u36.8o {524,248}	#w15.11 {220,316}	C548 {144,48}
D007: <27> (84)	#u36.13i {524,228}	#u36.12i {524,232}	#u44.33o {584,262}
D007': <546> (720)	#u36.11o {524,236}	#w16.11 {236,316}	C550 {152,48}
D010: <343> (108)	#u10.2i {804,228}	#u46.26o {860,280}	
D010': <516> (1116)	#u10.3o {804,232}	#w25.11 {592,312}	C520 {32,48}
D011: <40> (96)	#u10.4i {804,236}	#u10.5i {804,240}	#u46.27o {860,276}
D011': <500> (1096)	#u10.6o {804,244}	#w26.11 {608,312}	C522 {40,48}
D012: <25> (76)	#u46.28o {860,272}	#u10.91 {816,244}	#u10.10i {816,240}
D012': <491> (1096)	#u10.8o {816,248}	#w27.11 {624,312}	C524 {48,48}
D013: <29> (84)	#u46.29o {860,268}	#u10.12i {816,232}	#u10.13i {816,228}
D013': <535> (1108)	#u10.11o {816,236}	#w28.11 {124,316}	C526 {56,48}
D014: <342> (108)	#u36.21 {788,228}	#u46.30o {860,264}	
D014': <542> (1076)	#u36.3o {788,232}	#w29.11 {140,316}	C528 {64,48}
D015: <38> (96)	#u36.4i {788,236}	#u36.51 {788,240}	#u46.31o {860,260}
D015': <560> (1056)	#u36.6o {788,244}	#w30.11 {188,316}	C530 {72,48}
D016: <24> (76)	#u46.32o {860,266}	#u36.91 {800,244}	#u36.10i {800,240}
D016': <551> (1056)	#u36.8o {800,248}	#w31.11 {172,316}	C532 {80,48}
D017: <28> (84)	#u46.33o {860,262}	#u36.12i {800,232}	#u36.13i {800,228}
D017': <534> (1060)	#u36.11o {800,236}	#w32.11 {156,316}	C534 {88,48}
D020: <278> (72)	#u11.2i {724,228}	#u46.26o {704,280}	
D020': <579> (1168)	#w41.11 {16,316}	C504 {480,44}	#u11.3o {724,232}
D021: <16> (60)	#u11.4i {724,236}	#u11.5i {724,240}	#u46.27o {704,276}
D021': <582> (1196)	#w42.11 {0,316}	C506 {488,44}	#u11.6o {724,244}
D022: <17> (64)	#u46.28o {704,272}	#u11.91 {736,244}	#u11.10i {736,240}
D022': <470> (668)	#w43.11 {896,312}	#u11.8o {736,248}	C508 {496,44}
D023: <21> (72)	#u11.13i {736,228}	#u11.12i {736,232}	#u46.29o {704,268}
D023': <574> (1092)	#w44.11 {108,316}	C510 {504,44}	#u11.11o {736,236}

DO24: <277> (72)
 #u12.21 {740,228} #u46.30o {704,264}

DO24*: <662> (1092)
 #u12.3o {740,232} #w46.11 {92,316} C512 {0,48}

DO25: <14> (60)
 #u12.41 {740,236} #u12.51 {740,240} #u46.31o {704,260}

DO25': <618> (1072)
 #u12.6o {740,244} #w46.11 {44,316} C514 {8,48}

DO28: <16> (84)
 #u46.32o {704,256} #u12.91 {752,244} #u12.101 {752,240}

DO26': <520> (1072)
 #u12.8o {752,248} #w47.11 {60,316} C516 {16,48}

DO27: <20> (72)
 #u46.33o {704,252} #u12.121 {752,232} #u12.131 {752,228}

DO27': <524> (1076)
 #u12.11o {752,236} #w48.11 {76,316} C518 {24,48}

DSR0: <686> (464)
 C348 {368,40} #u28.11 {648,224}

DSR0': <300> (84)
 #u28.3o {648,232} #u40.28o {612,280}

DSR0t: <468> (848)
 #rp0.31 {864,232} #u28.21 {648,228} #v6.11 {96,304}

DSR1: <695> (524)
 C336 {320,40} #u28.41 {648,236}

DSR1': <268> (68)
 #u28.6o {648,244} #u40.27o {612,276}

DSR1t: <398> (380)
 #rp1.31 {868,232} #u28.51 {648,240} #v17.11 {560,304}

DSR2: <598> (544)
 C324 {272,40} #u29.11 {632,224}

DSR2': <243> (60)
 #u29.3o {632,232} #u40.28o {612,272}

DSR2t: <389> (388)
 #rp2.31 {872,232} #v28.11 {800,304} #u29.21 {632,228}

DSR3: <610> (604)
 C312 {224,40} #u29.41 {632,236}

DSR3': <222> (44)
 #u29.6o {632,244} #u40.29o {612,268}

DSR3t: <488> (600)
 #rp3.31 {876,232} #u29.51 {632,240} #v39.11 {352,308}

DSR4: <697> (540)
 C448 {256,44} #u30.11 {616,224}

DSR4': <207> (36)
 #u30.3o {616,232} #u40.30o {612,264}

DSR4t: <506> (652)
 #rp4.31 {892,232} #u30.21 {616,228} #v50.11 {320,304}

DSR5: <609> (600)
 C436 {208,44} #u30.41 {616,236}

DSR5': <128> (20)
 #u30.6o {616,244} #u40.31o {612,260}

DSR5t: <505> (624)
 #rp5.31 {888,232} #u30.51 {616,240} #v61.11 {336,304}

DSR6: <620> (684)
 C424 {160,44} #u31.11 {664,224}

DSR6': <288> (76)
 #u31.3o {664,232} #u40.32o {612,256}

DSR6t: <472> (856)
 #rp6.31 {884,232} #u31.21 {664,228} #v72.11 {112,308}

DSR7: <623> (744)
 C412 {112,44} #u31.41 {664,236}

DSR7': <242> (60)
 #u31.6o {664,244} #u40.33o {612,252}

DSR7t: <471> (828)
 #rp7.31 {880,232} #u31.51 {664,240} #v83.11 {128,308}

DTR0: <280> (440)
 #v11.11 {176,304} #u1.11o {172,236} C342 {344,40}

DTR0': <11> (60)

#u1.131 {172,228}	#u1.121 {172,232}	#u37.16o {176,284}	
DTR1: <659> (824)			
#v2.21 {480,304}	#u2.11o {108,236}	C330 {296,40}	
DTR1': <60> (152)			
#u2.131 {108,228}	#u2.121 {108,232}	#u37.24o {200,288}	
DTR2: <449> (904)			
#v33.11 {880,304}	#u3.11o {244,236}	C318 {248,40}	
DTR2': <34> (96)			
#u3.131 {244,228}	#u3.121 {244,232}	#u38.16o {204,284}	
DTR3: <315> (380)			
#v44.11 {272,308}	#u4.11o {292,236}	C306 {200,40}	
DTR3': <48> (124)			
#u4.131 {292,228}	#u4.121 {292,232}	#u38.24o {228,288}	
DTR4: <434> (468)			
#u6.11o {372,236}	#v55.11 {256,304}	C442 {232,44}	
DTR4': <13> (60)			
#u42.16o {376,284}	#u5.121 {372,232}	#u5.131 {372,228}	
DTR5: <408> (476)			
#v66.11 {400,304}	#u6.11o {308,236}	C430 {184,44}	
DTR5': <62> (152)			
#u42.24o {400,288}	#u6.121 {308,232}	#u6.131 {308,228}	
DTR6: <548> (820)			
#u7.11o {444,236}	#v77.11 {48,308}	C418 {136,44}	
DTR6': <35> (96)			
#u43.16o {404,284}	#u7.121 {444,232}	#u7.131 {444,228}	
DTR7: <653> (740)			
#u8.11o {492,236}	#v88.11 {192,308}	C406 {88,44}	
DTR7': <47> (124)			
#u43.24o {428,288}	#u8.121 {492,232}	#u8.131 {492,228}	
GND: <2> (-24240)			
#u22.71 {820,248}	#u34.71 {772,248}	#u24.71 {766,248}	#u23.71 {708,248}
#u31.71 {664,248}	#u28.71 {648,248}	#u29.71 {632,248}	#u30.71 {616,248}
#u21.71 {544,248}	#u33.71 {496,248}	#u20.71 {464,248}	#u19.71 {448,248}
#u17.71 {344,248}	#u18.71 {328,248}	#u32.71 {312,248}	#u16.71 {264,248}
#u15.71 {248,248}	#u27.71 {144,248}	#u13.71 {128,248}	#u14.71 {112,248}
#u55.101 {692,180}	#u39.201 {20,220}	#u79.71 {828,88}	#u90.71 {812,88}
#u80.71 {796,88}	#u89.71 {780,88}	#u53.141 {752,116}	#u54.141 {724,116}
#u52.141 {696,116}	#u50.141 {668,116}	#u51.141 {640,116}	#u49.141 {612,116}
#u78.81 {592,92}	#u48.141 {536,116}	#u47.141 {508,116}	#u88.81 {488,92}
#u82.101 {444,100}	#u86.101 {428,100}	#u87.101 {412,100}	#u85.101 {396,100}
#u84.101 {380,100}	#u83.101 {364,100}	#u65.71 {348,88}	#u67.71 {332,88}
#u56.101 {316,100}	#u64.101 {300,100}	#u72.101 {284,100}	#u63.71 {268,88}
#u60.111 {248,104}	#u59.111 {228,104}	#u71.71 {212,88}	#u69.101 {196,100}
#u77.101 {180,100}	#u61.71 {164,88}	#u58.81 {144,92}	#u57.71 {128,88}
#u62.81 {112,92}	#u73.71 {96,88}	#u68.101 {80,100}	#u76.101 {64,100}
#u70.81 {48,92}	#u75.101 {32,100}	#u74.101 {16,100}	#s4.71 {564,340}
#s3.71 {548,340}	#s1.11 {544,316}	#s2.11 {540,316}	#s1.101 {544,352}
#s2.101 {540,352}	C549 {148,48}	C414 {120,44}	C350 {376,40}
C449 {260,44}	C450 {264,44}	C426 {168,44}	C402 {72,44}
C438 {216,44}	C302 {184,40}	C314 {232,40}	C326 {280,40}
C502 {472,44}	C349 {372,40}	C338 {328,40}	E185 {228,4}
E186 {232,4}	E176 {192,4}	E175 {188,4}	E112 {448,0}
E111 {444,0}	E102 {408,0}	E101 {404,0}	#c92.2o {504,316}
#c93.2o {620,316}	#c77.2o {296,316}	#c78.2o {376,316}	#c79.2o {392,316}
#c80.2o {312,316}	#c81.2o {328,316}	#c82.2o {360,316}	#c83.2o {344,316}
#c84.2o {424,316}	#c85.2o {440,316}	#c86.2o {456,316}	#c87.2o {472,316}
#c88.2o {488,316}	#c90.2o {408,316}	#w1.2o {444,312}	#w2.2o {428,312}
#w3.2o {460,312}	#w4.2o {492,312}	#w5.2o {476,312}	#w6.2o {540,312}
#w7.2o {508,312}	#w8.2o {524,312}	#w9.2o {588,312}	#w10.2o {572,312}
#w11.2o {556,312}	#w12.2o {280,316}	#w13.2o {264,316}	#w14.2o {216,316}
#w15.2o {232,316}	#w16.2o {248,316}	#w17.2o {748,312}	#w18.2o {764,312}
#w19.2o {732,312}	#w20.2o {700,312}	#w21.2o {716,312}	#w22.2o {652,312}
#w23.2o {684,312}	#w24.2o {668,312}	#w25.2o {604,312}	#w26.2o {620,312}
#w27.2o {636,312}	#w28.2o {136,316}	#w29.2o {152,316}	#w30.2o {200,316}
#w31.2o {184,316}	#w32.2o {168,316}	#w33.2o {796,312}	#w34.2o {780,312}
#w35.2o {812,312}	#w36.2o {844,312}	#w37.2o {828,312}	#w38.2o {892,312}
#w39.2o {860,312}	#w40.2o {876,312}	#w41.2o {28,316}	#w42.2o {12,316}
#w43.2o {908,312}	#w44.2o {120,316}	#w46.2o {104,316}	#w46.2o {56,316}
#w47.2o {72,316}	#w48.2o {88,316}	#c64.2o {412,312}	#c65.2o {892,308}
#c66.2o {876,308}	#c67.2o {44,312}	#c68.2o {28,312}	#c69.2o {908,308}
#c70.2o {12,312}	#c71.2o {780,308}	#c72.2o {796,308}	#c73.2o {828,308}
#c74.2o {812,308}	#c75.2o {860,308}	#c76.2o {844,308}	#c51.2o {396,312}
#c52.2o {732,308}	#c53.2o {764,308}	#c54.2o {748,308}	#c55.2o {668,308}
#c56.2o {364,312}	#c57.2o {700,308}	#c58.2o {684,308}	#c59.2o {108,312}
#c60.2o {124,312}	#c61.2o {716,308}	#c62.2o {76,312}	#c63.2o {60,312}
#c38.2o {380,312}	#c39.2o {348,312}	#c40.2o {492,308}	#c41.2o {508,308}
#c42.2o {540,308}	#c43.2o {524,308}	#c44.2o {604,308}	#c45.2o {588,308}
#c46.2o {556,308}	#c47.2o {572,308}	#c48.2o {652,308}	#c49.2o {636,308}
#c50.2o {620,308}	#c1.2o {140,312}	#c5.2o {156,312}	#c9.2o {188,312}
#c12.2o {172,312}	#c13.2o {236,312}	#c17.2o {204,312}	#c21.2o {220,312}
#c24.2o {332,312}	#c25.2o {316,312}	#c29.2o {284,312}	#c33.2o {300,312}
#c36.2o {252,312}	#c37.2o {268,312}	#v1.2o {12,304}	#v2.2o {908,224}
#v3.2o {28,304}	#v4.2o {60,304}	#v5.2o {44,304}	#v6.2o {108,304}
#v7.2o {76,304}	#v8.2o {92,304}	#v9.2o {236,304}	#v10.2o {220,304}
#v11.2o {188,304}	#v12.2o {668,304}	#v13.2o {684,304}	#v14.2o {652,304}
#v15.2o {620,304}	#v16.2o {636,304}	#v17.2o {572,304}	#v18.2o {604,304}

#v19.2o {588,304}	#v20.2o {444,304}	#v21.2o {480,304}	#v22.2o {492,304}
#v23.2o {716,304}	#v24.2o {700,304}	#v25.2o {732,304}	#v26.2o {764,304}
#v27.2o {748,304}	#v28.2o {812,304}	#v29.2o {780,304}	#v30.2o {798,304}
#v31.2o {28,308}	#v32.2o {12,308}	#v33.2o {892,304}	#v34.2o {460,308}
#v35.2o {476,308}	#v36.2o {444,308}	#v37.2o {412,308}	#v38.2o {428,308}
#v39.2o {364,308}	#v40.2o {396,308}	#v41.2o {380,308}	#v42.2o {236,308}
#v43.2o {252,308}	#v44.2o {284,308}	#v78.2o {268,308}	#v79.2o {348,308}
#v80.2o {332,308}	#v81.2o {300,308}	#v82.2o {316,308}	#v83.2o {140,308}
#v84.2o {156,308}	#v85.2o {188,308}	#v86.2o {172,308}	#v87.2o {220,308}
#v88.2o {204,308}	#v67.2o {908,304}	#v68.2o {828,304}	#v69.2o {844,304}
#v70.2o {876,304}	#v71.2o {860,304}	#v72.2o {124,308}	#v73.2o {108,308}
#v74.2o {76,308}	#v75.2o {92,308}	#v76.2o {44,308}	#v77.2o {60,308}
#v56.2o {476,304}	#v57.2o {668,304}	#v58.2o {640,304}	#v59.2o {608,304}
#v60.2o {624,304}	#v61.2o {348,304}	#v62.2o {364,304}	#v63.2o {396,304}
#v64.2o {380,304}	#v65.2o {428,304}	#v66.2o {412,304}	#v46.2o {204,304}
#v46.2o {124,304}	#v47.2o {140,304}	#v48.2o {172,304}	#v49.2o {168,304}
#v50.2o {332,304}	#v51.2o {316,304}	#v52.2o {284,304}	#v53.2o {300,304}
#v64.2o {262,304}	#v55.2o {268,304}	#u10.7i {804,248}	#u36.7i {788,248}
#u11.7i {724,248}	#u12.7i {740,248}	#u45.7i {836,248}	#u46.7i {880,248}
#u40.7i {588,248}	#u9.7i {628,248}	#u36.7i {612,248}	#u44.7i {660,248}
#u5.7i {360,248}	#u6.7i {296,248}	#u7.7i {432,248}	#u8.7i {480,248}
#u43.31i {428,260}	#u42.31i {400,260}	#u1.7i {160,248}	#u2.7i {96,248}
#u3.7i {232,248}	#u4.7i {280,248}	#u38.31i {228,260}	#u37.31i {200,260}
#r54.1i {720,144}	#r55.1i {716,144}	#r51.1i {712,144}	#u26.12i {176,152}
#u26.12i {16,162}	#u55.19i {704,148}	#u55.1i {692,144}	#u39.13i {20,192}
#u39.1i {20,144}	#r8.2o {192,144}	#r7.2o {160,144}	#q1.1i {0,144}
#r1.2o {888,64}	#u79.2i {828,68}	#u79.12i {840,72}	#u78.5i {592,80}
#u81.7i {564,88}	#u88.5i {488,80}	#u88.4i {488,76}	#u41.7i {460,88}
#u56.16i {328,84}	#u64.1i {300,64}	#u56.19i {328,68}	#u72.1i {284,64}
#u60.17i {264,84}	#u60.18i {264,80}	#u59.17i {244,84}	#u59.18i {244,80}
#u58.15i {156,68}	#u70.5i {48,80}	#u66.1i {0,64}	#u66.2i {0,68}
#u66.3i {0,72}	#u66.4i {0,76}	#u66.5i {0,80}	#u66.6i {0,84}
#u66.7i {0,88}	#u66.8i {0,92}		
INIT/: <407> (392)			
#u57.11o {140,76}	#u72.18i {296,72}	E114 {456,0}	
Int0/: <67> (472)			
#u58.10i {156,88}	#rp11.8i {160,92}	#u41.24o {484,128}	#u81.24o {588,128}
INT0/: <397> (152)			
E141 {52,4}	#u58.1o {144,64}		
INT1/: <396> (152)			
E142 {56,4}	#u58.2o {144,68}		
INT2/: <420> (168)			
E139 {44,4}	#u58.3o {144,72}		
INT3/: <419> (168)			
E140 {48,4}	#u58.4o {144,76}		
INT4/: <432> (184)			
E137 {36,4}	#u58.5o {144,80}		
INT5/: <431> (184)			
E138 {40,4}	#u58.6o {144,84}		
INT6/: <446> (200)			
E135 {28,4}	#u58.7o {144,88}		
INT7/: <468> (212)			
E136 {32,4}	#u58.9o {156,92}		
IntChan.0: <64> (388)			
#u58.13i {156,76}	#rp11.5i {160,80}	#u41.22o {484,136}	
IntChan.1: <65> (396)			
#u58.14i {156,72}	#rp11.4i {160,76}	#u41.21o {484,140}	
IORC/: <260> (480)			
#u73.10i {108,80}	#u72.4i {284,76}	#u65.4i {348,76}	#u82.7i {444,88}
E121 {484,0}			
IOWC/: <281> (480)			
#u73.9i {108,84}	#u72.7i {284,88}	#u65.5i {348,80}	#u82.6i {444,84}
E122 {488,0}			
LC0: <400> (508)			
#v8.1i {80,304}	#u1.3o {160,232}	C337 {324,40}	
LC0a: <225> (748)			
#r61.1i {308,144}	#r12.2o {352,144}	#r51.4i {712,156}	#s3.3i {548,324}
LC0b: <102> (732)			
#r61.2o {320,144}	#r13.2o {336,144}	#r51.5i {712,160}	#s3.10o {560,332}
LC1: <556> (924)			
#v19.1i {576,304}	#u2.3o {96,232}	C325 {276,40}	
LC1a: <142> (484)			
#s4.3i {564,324}	#r20.2o {496,144}	#r62.1i {516,144}	#r51.6i {712,164}
LC1b: <98> (476)			
#s4.10o {576,332}	#r21.2o {512,144}	#r62.2o {528,144}	#r51.7i {712,168}
LC2: <444> (820)			
#v30.1i {784,304}	#u3.3o {232,232}	C313 {228,40}	
LC3: <414> (456)			
#v41.1i {368,308}	#u4.3o {280,232}	C301 {180,40}	

LC4: <410> (480) #u6.3o {360,232}	#v62.11 {272,304}	C437 {212,44}	
LC5: <409> (480) #v63.11 {384,304}	#u6.3o {298,232}	C426 {164,44}	
LC6: <521> (760) #u7.3o {432,232}	#v74.11 {64,308}	C413 {116,44}	
LC7: <565> (752) #u8.3o {480,232}	#v85.11 {176,308}	C401 {68,44}	
LCa': <187> (892) #u2.21 {96,228} #u66.11i {704,180}	#u1.21 {160,228} #u66.61 {692,164}	#s1.51 {544,332}	#u40.19o {588,296}
LCb': <230> (464) #u3.21 {232,228}	#u4.21 {280,228}	#u44.19o {560,296}	#s1.91 {544,348}
LCc': <262> (680) #u45.19o {836,296}	#s2.51 {540,332}	#u5.21 {360,228}	#u6.21 {296,228}
LCd': <229> (420) #u46.19o {680,296}	#s2.91 {540,348}	#u8.21 {480,228}	#u7.21 {432,228}
mData.0: <97> (472) #u83.19o {376,68} #u86.19o {440,68} #u48.19o {560,100} #u52.19o {720,100}	#u84.19o {392,68} #u82.19o {456,68} #u49.19o {636,100} #u64.19o {748,100}	#u85.19o {408,68} #u41.26o {484,120} #u51.19o {664,100} #u53.19o {776,100}	#u87.19o {424,68} #u47.19o {532,100} #u60.19o {692,100}
mData.1: <95> (456) #u83.18o {376,72} #u86.18o {440,72} #u48.18o {560,104} #u52.18o {720,104}	#u84.18o {392,72} #u82.18o {456,72} #u49.18o {636,104} #u64.18o {748,104}	#u85.18o {408,72} #u41.27o {484,116} #u51.18o {664,104} #u53.18o {776,104}	#u87.18o {424,72} #u47.18o {532,104} #u50.18o {692,104}
mData.2: <93> (440) #u83.17o {376,76} #u86.17o {440,76} #u48.17o {560,108} #u52.17o {720,108}	#u84.17o {392,76} #u82.17o {456,76} #u49.17o {636,108} #u64.17o {748,108}	#u85.17o {408,76} #u41.28o {484,112} #u51.17o {664,108} #u53.17o {776,108}	#u87.17o {424,76} #u47.17o {532,108} #u50.17o {692,108}
mData.3: <92> (432) #u83.16o {376,80} #u86.16o {440,80} #u48.16o {560,112} #u52.16o {720,112}	#u84.16o {392,80} #u82.16o {456,80} #u49.16o {636,112} #u64.16o {748,112}	#u85.16o {408,80} #u41.29o {484,108} #u51.16o {664,112} #u53.16o {776,112}	#u87.16o {424,80} #u47.16o {532,112} #u50.16o {692,112}
mData.4: <91> (432) #u83.15o {376,84} #u86.15o {440,84} #u48.15o {560,116} #u52.15o {720,116}	#u84.15o {392,84} #u82.15o {456,84} #u49.15o {636,116} #u64.15o {748,116}	#u85.15o {408,84} #u41.30o {484,104} #u51.15o {664,116} #u53.15o {776,116}	#u87.15o {424,84} #u47.15o {532,116} #u50.15o {692,116}
mData.5: <88> (400) #u83.14o {376,88} #u86.14o {440,88} #u48.13o {536,112} #u62.13o {696,112}	#u84.14o {392,88} #u82.14o {456,88} #u49.13o {612,112} #u54.13o {724,112}	#u85.14o {408,88} #u41.31o {484,100} #u51.13o {640,112} #u53.13o {762,112}	#u87.14o {424,88} #u47.13o {508,112} #u50.13o {668,112}
mData.6: <86> (392) #u83.13o {376,92} #u86.13o {440,92} #u48.12o {536,108} #u52.12o {696,108}	#u84.13o {392,92} #u82.13o {456,92} #u49.12o {612,108} #u54.12o {724,108}	#u85.13o {408,92} #u41.32o {484,96} #u51.12o {640,108} #u53.12o {762,108}	#u87.13o {424,92} #u47.12o {508,108} #u50.12o {668,108}
mData.7: <85> (392) #u83.12o {376,96} #u86.12o {440,96} #u48.11o {536,104} #u52.11o {696,104}	#u84.12o {392,96} #u82.12o {456,96} #u49.11o {612,104} #u54.11o {724,104}	#u85.12o {408,96} #u41.33o {484,92} #u51.11o {640,104} #u53.11o {762,104}	#u87.12o {424,96} #u47.11o {508,104} #u50.11o {668,104}
mEn.0: <163> (168) #u41.11o {460,104}	#u88.61 {488,84}	#rp12.31 {504,72}	#u78.41 {592,76}
mEn.1: <138> (168) #u41.10o {460,100}	#u88.31 {488,72}	#rp12.41 {504,76}	#u78.31 {592,72}
mEn.2: <165> (184) #u41.9o {460,96}	#u88.21 {488,68}	#rp12.51 {504,80}	#u78.21 {592,68}
mEn.3: <210> (192) #u41.8o {460,92}	#rp12.61 {504,84}	#u88.11 {488,64}	#u78.11 {592,64}
MRDC/: <362> (248) #u65.11i {348,64}	#u82.81 {444,92}	E119 {476,0}	
MWTC/: <363> (256) #u65.21 {348,68}	#u82.91 {444,96}	E120 {480,0}	
PromAd.0: <181> (356) #u53.11i {752,64} #u51.11i {640,64} #u48.11i {536,64}	#u54.11i {724,64} #u49.11i {612,64} #u47.11i {508,64}	#u52.11i {696,64} #rp13.71 {608,88}	#u50.11i {668,64} #u81.26o {588,120}
PromAd.1: <183> (380) #u47.27i {532,68} #u49.27i {636,68} #u54.27i {748,68}	#u48.27i {660,68} #u51.27i {664,68} #u53.27i {776,68}	#rp13.61 {608,84} #u50.27i {692,68}	#u81.27o {588,116} #u52.27i {720,68}

PromAd.10: <176> (332)			
#u81.13o {564,112}	#u48.6i {536,80}	#u47.6i {508,80}	#u49.6i {612,80}
#u51.6i {640,80}	#u50.6i {668,80}	#u52.6i {696,80}	#u54.6i {724,80}
#u53.6i {762,80}			
PromAd.11: <174> (292)			
#u47.8i {508,84}	#u48.6i {536,84}	#u81.12o {564,108}	#u49.6i {612,84}
#u51.8i {640,84}	#u50.6i {668,84}	#u52.6i {696,84}	#u54.6i {724,84}
#u53.6i {762,84}			
PromAd.12: <170> (276)			
#u47.7i {508,88}	#u48.7i {536,88}	#u81.11o {564,104}	#u49.7i {612,88}
#u51.7i {640,88}	#u50.7i {668,88}	#u52.7i {696,88}	#u54.7i {724,88}
#u53.7i {762,88}			
PromAd.13: <188> (260)			
#u47.8i {508,92}	#u48.8i {536,92}	#u81.10o {564,100}	#u49.8i {612,92}
#u51.8i {640,92}	#u50.8i {668,92}	#u52.8i {696,92}	#u54.8i {724,92}
#u53.8i {762,92}			
PromAd.14: <166> (244)			
#u47.9i {508,96}	#u48.9i {536,96}	#u81.9o {564,96}	#u49.9i {612,96}
#u51.9i {640,96}	#u50.9i {668,96}	#u52.9i {696,96}	#u54.9i {724,96}
#u53.9i {762,96}			
PromAd.15: <167> (260)			
#u53.10i {752,100}	#u54.10i {724,100}	#u52.10i {696,100}	#u50.10i {668,100}
#u51.10i {640,100}	#u49.10i {612,100}	#u81.8o {564,92}	#u48.10i {636,100}
#u47.10i {508,100}			
PromAd.2: <178> (340)			
#u81.28o {588,112}	#u47.26i {532,72}	#u48.26i {560,72}	#u49.26i {636,72}
#u51.26i {664,72}	#u50.26i {692,72}	#u52.26i {720,72}	#u54.26i {748,72}
#u53.26i {776,72}			
PromAd.3: <182> (364)			
#u81.29o {588,108}	#u48.2i {536,68}	#u47.2i {508,68}	#u49.2i {612,68}
#u51.2i {640,68}	#u50.2i {668,68}	#u52.2i {696,68}	#u54.2i {724,68}
#u53.2i {762,68}			
PromAd.4: <173> (284)			
#u47.23i {532,84}	#u48.23i {560,84}	#u81.30o {588,104}	#u49.23i {636,84}
#u51.23i {664,84}	#u50.23i {692,84}	#u52.23i {720,84}	#u54.23i {748,84}
#u53.23i {776,84}			
PromAd.5: <169> (260)			
#u47.21i {532,92}	#u48.21i {560,92}	#u81.31o {588,100}	#u49.21i {636,92}
#u51.21i {664,92}	#u50.21i {692,92}	#u52.21i {720,92}	#u54.21i {748,92}
#u53.21i {776,92}			
PromAd.6: <172> (276)			
#u47.24i {532,80}	#u48.24i {560,80}	#u81.32o {588,96}	#u49.24i {636,80}
#u51.24i {664,80}	#u50.24i {692,80}	#u52.24i {720,80}	#u54.24i {748,80}
#u53.24i {776,80}			
PromAd.7: <171> (276)			
#u47.25i {532,76}	#u48.25i {560,76}	#u81.33o {588,92}	#u49.25i {636,76}
#u51.25i {664,76}	#u50.25i {692,76}	#u52.25i {720,76}	#u54.25i {748,76}
#u53.25i {776,76}			
PromAd.8: <180> (348)			
#u81.15o {564,120}	#u48.3i {536,72}	#u47.3i {508,72}	#u49.3i {612,72}
#u51.3i {640,72}	#u50.3i {668,72}	#u52.3i {696,72}	#u54.3i {724,72}
#u53.3i {762,72}			
PromAd.9: <179> (340)			
#u81.14o {564,116}	#u48.4i {536,76}	#u47.4i {508,76}	#u49.4i {612,76}
#u51.4i {640,76}	#u50.4i {668,76}	#u52.4i {696,76}	#u54.4i {724,76}
#u53.4i {762,76}			
PromCE0': <326> (100)			
#u47.20i {532,96}	#u78.15o {604,68}		
PromCE1': <265> (68)			
#u48.20i {560,96}	#u78.14o {604,72}		
PromCE2': <231> (52)			
#u49.20i {636,96}	#u78.13o {604,76}		
PromCE3': <329> (104)			
#u50.20i {692,96}	#u78.12o {604,80}		
PromCE4': <274> (72)			
#u51.20i {664,96}	#u78.11o {604,84}		
PromCE5': <361> (124)			
#u52.20i {720,96}	#u78.10o {604,88}		
PromCE6': <424> (176)			
#u53.20i {776,96}	#u78.9o {604,92}		
PromCE7': <413> (164)			
#u54.20i {748,96}	#u78.7o {592,88}		
PromOE': <177> (340)			
#u53.22i {776,88}	#u54.22i {748,88}	#u52.22i {720,88}	#u50.22i {692,88}
#u51.22i {664,88}	#u49.22i {636,88}	#rp13.8i {608,92}	#u81.22o {588,136}
#u48.22i {560,88}	#u47.22i {532,88}		
PU: <63> (3116)			

#u40.36i {612,244}	#u40.17i {588,288}	#u44.17i {560,288}	#u46.26i {704,284}
#u45.17i {836,288}	#u45.26i {860,284}	#u45.36i {860,244}	#u46.36i {704,244}
#u46.17i {680,288}	#u40.26i {612,284}	#u44.26i {584,284}	#u44.36i {684,244}
#u81.26i {588,124}	#u81.36i {688,84}	#u78.6i {692,84}	#u41.36i {484,84}
#u67.2i {332,68}	#u67.1i {332,64}	#u63.13i {280,68}	#u63.10i {280,80}
#u63.4i {268,76}	#u71.4i {212,76}	#u62.6i {112,84}	#u39.30i {44,184}
#u39.29i {44,188}	#u39.11i {20,184}	#u71.2i {212,68}	#u63.1i {268,64}
#u81.17i {684,128}	#u41.26i {484,124}	#u41.17i {480,128}	#u43.32i {428,266}
#u42.32i {400,266}	#u38.32i {228,266}	#u37.32i {200,266}	#u37.7i {176,248}
#pu1.2o {92,312}			
RandomBit: <324> (408)			
#rp12.2i {504,68}	#u41.16o {460,120}	#u26.13o {176,148}	
RawC1k: <161> (700)			
#u89.8o {792,88}	#u89.4o {780,76}	#u63.11i {280,76}	#u73.12i {108,72}
RdTOAdrH': <382> (140)			
#u83.1i {364,64}	#u88.16o {500,68}		
RdTOAdrL': <353> (118)			
#u88.13o {500,76}	#u86.1i {396,64}		
RdTOAdrM': <367> (128)			
#u88.14o {500,72}	#u84.1i {380,64}		
RdTOCmd': <273> (72)			
#u88.12o {500,80}	#u82.1i {444,64}		
RdTODatH': <309> (92)			
#u88.11o {500,84}	#u86.1i {428,64}		
RdTODatL': <345> (112)			
#u88.10o {500,88}	#u87.1i {412,64}		
ReadDatH': <80> (212)			
#u76.1i {64,64}	#u76.19i {76,68}	#u59.14o {244,96}	
ReadDatL': <77> (92)			
#u77.1i {180,64}	#u77.19i {192,68}	#u59.15o {244,92}	
ReadH: <490> (266)			
#u66.13o {328,92}	#u73.2i {96,68}		
ReadL: <480> (240)			
#u56.14o {328,88}	#u73.6i {96,80}		
RI0: <590> (496)			
C347 {364,40}	#u28.10i {660,240}		
RI0': <331> (104)			
#u28.8o {660,248}	#u40.15o {588,280}		
RI0t: <469> (876)			
#rp0.2i {864,228}	#u28.9i {660,244}	#v7.1i {64,304}	
RI1: <696> (532)			
C335 {316,40}	#u28.13i {660,228}		
RI1': <349> (112)			
#u28.11o {660,236}	#u40.14o {588,276}		
RI1t: <383> (352)			
#rp1.2i {868,228}	#u28.12i {660,232}	#v18.1i {592,304}	
RI2: <607> (576)			
C323 {268,40}	#u29.10i {644,240}		
RI2': <292> (80)			
#u29.8o {644,248}	#u40.13o {588,272}		
RI2t: <428> (364)			
#rp2.2i {872,228}	#v29.1i {768,304}	#u29.9i {644,244}	
RI3: <612> (612)			
C311 {220,40}	#u29.13i {644,228}		
RI3': <307> (88)			
#u29.11o {644,236}	#u40.12o {588,268}		
RI3t: <479> (572)			
#rp3.2i {876,228}	#u29.12i {644,232}	#v40.1i {384,308}	
RI4: <606> (572)			
C447 {252,44}	#u30.10i {628,240}		
RI4': <236> (66)			
#u30.8o {628,248}	#u40.11o {588,264}		
RI4t: <507> (664)			
#rp4.2i {892,228}	#u30.9i {628,244}	#v51.1i {304,304}	
RI5: <611> (608)			
C435 {204,44}	#u30.13i {628,228}		
RI5': <253> (64)			
#u30.11o {628,236}	#u40.10o {588,260}		
RI5t: <495> (612)			
#rp5.2i {888,228}	#u30.12i {628,232}	#v62.1i {352,304}	

RI6: <822> (718) C423 {166,44}	#u31.10i {876,240}		
RI6': <320> (98) #u31.8o {876,248}	#u40.9o {588,258}		
RI6t: <473> (888) #rp6.2i {884,228}	#u31.9i {876,244}	#v73.1i {96,308}	
RI7: <824> (752) C411 {108,44}	#u31.13i {876,228}		
RI7': <330> (104) #u40.8o {588,262}	#u31.11o {876,236}		
RI7t: <457> (816) #rp7.2i {880,228}	#u31.12i {876,232}	#v84.1i {144,308}	
RTS0: <316> (464) #v10.1i {208,304}	#u1.8o {172,248}	C340 {336,40}	
RTS0': <9> (52) #u1.10i {172,240}	#u1.9i {172,244}	#u37.17o {176,288}	
RTS1: <563> (784) #v21.1i {448,304}	#u2.8o {108,248}	C328 {288,40}	
RTS1': <48> (144) #u2.10i {108,240}	#u2.9i {108,244}	#u37.23o {200,292}	
RTS2: <460> (516) #v32.1i {0,308}	#u3.8o {244,248}	C316 {240,40}	
RTS2': <31> (88) #u3.10i {244,240}	#u3.9i {244,244}	#u38.17o {204,288}	
RTS3: <350> (420) #v43.1i {240,308}	#u4.8o {292,248}	C304 {192,40}	
RTS3': <44> (116) #u4.10i {292,240}	#u4.9i {292,244}	#u38.23o {228,292}	
RTS4: <438> (464) #u5.8o {372,248}	#v54.1i {240,304}	C440 {224,44}	
RTS4': <10> (52) #u42.17o {376,288}	#u5.9i {372,244}	#u5.10i {372,240}	
RTS5: <416> (500) #v65.1i {416,304}	#u6.8o {308,248}	C428 {176,44}	
RTS5': <49> (144) #u42.23o {400,292}	#u6.9i {308,244}	#u6.10i {308,240}	
RTS6: <550> (832) #u7.8o {444,248}	#v76.1i {32,308}	C416 {128,44}	
RTS6': <32> (88) #u43.17o {404,288}	#u7.9i {444,244}	#u7.10i {444,240}	
RTS7: <540> (736) #u8.8o {492,248}	#v87.1i {208,308}	C404 {80,44}	
RTS7': <45> (116) #u43.23o {428,292}	#u8.9i {492,244}	#u8.10i {492,240}	
RXC0: <571> (424) C345 {356,40}	#u13.4i {128,236}		
RXC0': <279> (296) #u37.12i {176,268}	#u13.6o {128,244}	#u25.1o {4,144}	
RXC0a: <99> (512) #r32.1i {892,144}	#r15.1i {876,144}	#r52.3i {724,152}	#s3.12o {560,324}
RXC0b: <423> (1176) #r33.1i {0,224}	#s3.4i {548,328}	#r53.3i {728,152}	#r15.2o {888,144}
RXC0t: <237> (800) #u13.5i {128,240}	#rp0.7i {864,248}	#v2.1i {896,224}	
RXC1: <564> (392) C333 {308,40}	#u14.4i {112,236}		
RXC1': <354> (268) #u37.28i {200,272}	#u14.6o {112,244}	#u26.1o {164,144}	
RXC1a: <89> (400) #r40.1i {796,144}	#r24.1i {780,144}	#r52.5i {724,160}	#s4.12o {576,324}
RXC1b: <141> (432) #r41.1i {812,144}	#r24.2o {792,144}	#r53.5i {728,160}	#s4.4i {564,328}
RXC1t: <489> (876) #rp1.7i {868,248}	#v13.1i {672,304}	#u14.5i {112,240}	
RXC2: <456> (208) C321 {260,40}	#u15.4i {248,236}		
RXC2': <266> (68) #u15.6o {248,244}	#u38.12i {204,268}		

RXC2t: <481> (744) #rp2.7i {872,248}	#v24.1i {688,304}	#u15.5i {248,240}	
RXC3: <485> (248) C309 {212,40}	#u16.4i {264,236}		
RXC3': <251> (64) #u16.6o {264,244}	#u38.28i {228,272}		
RXC3t: <501> (740) #rp3.7i {876,248}	#v35.1i {464,308}	#u16.5i {264,240}	
RXC4: <514> (292) C445 {244,44}	#u17.4i {344,236}		
RXC4': <235> (56) #u17.6o {344,244}	#u42.12i {376,268}		
RXC4t: <516> (852) #rp4.7i {892,248}	#u17.5i {344,240}	#v46.1i {112,304}	
RXC5: <526> (324) C433 {196,44}	#u18.4i {328,236}		
RXC5': <327> (100) #u18.6o {328,244}	#u42.28i {400,272}		
RXC5t: <508> (680) #rp5.7i {888,248}	#v57.1i {544,304}	#u18.5i {328,240}	
RXC6: <589> (492) C421 {148,44}	#u19.4i {448,236}		
RXC6': <267> (68) #u19.6o {448,244}	#u43.12i {404,268}		
RXC6t: <365> (556) #rp6.7i {884,248}	#v68.1i {816,304}	#u19.5i {448,240}	
RXC7: <601> (556) C409 {100,44}	#u20.4i {464,236}		
RXC7': <252> (64) #u20.6o {464,244}	#u43.28i {428,272}		
RXC7t: <442> (620) #rp7.7i {880,248}	#u20.5i {464,240}	#v79.1i {336,308}	
RXD0: <249> (296) #u25.2o {4,148}	#u13.8o {140,248}	#u37.13i {176,272}	
RXD0': <569> (420) C346 {360,40}	#u13.10i {140,240}		
RXD0a: <105> (952) #r30.1i {32,224}	#r14.1i {48,224}	#s3.14o {560,316}	#r52.2i {724,148}
RXD0b: <226> (980) #r31.1i {16,224}	#r14.2o {60,224}	#s3.13o {560,320}	#r53.2i {728,148}
RXD0t: <436> (908) #rp0.6i {864,244}	#u13.9i {140,244}	#v3.1i {16,304}	
RXD1: <333> (244) #u26.2o {164,148}	#u14.8o {124,248}	#u37.27i {200,276}	
RXD1': <561> (388) C334 {312,40}	#u14.10i {124,240}		
RXD1a: <96> (456) #r25.1i {860,144}	#r42.1i {844,144}	#r52.6i {724,164}	#s4.14o {576,316}
RXD1b: <224> (472) #r25.2o {872,144}	#r43.1i {828,144}	#r53.6i {728,164}	#s4.13o {576,320}
RXD1t: <513> (864) #rp1.6i {868,244}	#v14.1i {640,304}	#u14.9i {124,244}	
RXD2: <290> (80) #u15.8o {260,248}	#u38.13i {204,272}		
RXD2': <450> (204) C322 {264,40}	#u16.10i {260,240}		
RXD2t: <462> (732) #rp2.6i {872,244}	#v25.1i {720,304}	#u15.9i {260,244}	
RXD3: <284> (76) #u16.8o {276,248}	#u38.27i {228,276}		
RXD3': <492> (260) C310 {216,40}	#u16.10i {276,240}		
RXD3t: <466> (728) #rp3.6i {876,244}	#v36.1i {432,308}	#u16.9i {276,244}	
RXD4: <221> (44) #u42.13i {376,272}	#u17.8o {356,248}		
RXD4': <517> (304)			

C448 {248,44}	#u17.10i {356,240}		
RXD4t: <512> (824)			
#rp4.6i {892,244}	#u17.9i {356,244}	#v47.1i {128,304}	
RXD5: <305> (88)			
#u18.8o {340,248}	#u42.27i {400,276}		
RXD5': <531> (336)			
C434 {200,44}	#u18.10i {340,240}		
RXD5t: <486> (688)			
#rp5.6i {888,244}	#v68.1i {528,304}	#u18.9i {340,244}	
RXD6: <291> (80)			
#u43.13i {404,272}	#u19.8o {460,248}		
RXD6': <591> (504)			
C422 {152,44}	#u19.10i {480,240}		
RXD6t: <352> (536)			
#u19.9i {460,244}	#rp8.6i {884,244}	#v69.1i {832,304}	
RXD7: <286> (78)			
#u20.8o {476,248}	#u43.27i {428,276}		
RXD7': <604> (568)			
C410 {104,44}	#u20.10i {476,240}		
RXD7t: <466> (624)			
#rp7.6i {880,244}	#u20.9i {476,244}	#v80.1i {320,308}	
SCCInt': <66> (404)			
#u43.5o {404,240}	#u42.5o {376,240}	#u38.5o {204,240}	#u37.5o {176,240}
#rp11.7i {160,88}	#u58.11i {156,84}		
TOXACK: <56> (360)			
#u57.9i {140,84}	#u57.10i {140,80}	#u67.10o {344,80}	#u83.11i {376,100}
#u84.11i {392,100}	#u85.11i {408,100}	#u87.11i {424,100}	#u86.11i {440,100}
#u82.11i {456,100}	#u41.14o {460,116}		
TXC0: <566> (404)			
C343 {348,40}	#u13.1i {128,224}		
TXC0': <314> (292)			
#u37.14o {176,276}	#u13.3o {128,232}	#u25.14o {16,144}	
TXC0a: <84> (388)			
#r16.1i {784,144}	#r34.1i {748,144}	#r52.4i {724,156}	#s3.11o {560,328}
TXC0b: <90> (416)			
#r16.2o {776,144}	#r35.1i {732,144}	#r63.4i {728,156}	#s3.5i {548,332}
TXC0t: <455> (964)			
#rp0.8i {864,252}	#u13.2i {128,228}	#v1.1i {0,304}	
TXC1: <554> (372)			
C331 {300,40}	#u14.1i {112,224}		
TXC1': <379> (288)			
#u37.26o {200,280}	#u14.3o {112,232}	#u26.14o {176,144}	
TXC1a: <83> (356)			
#r52.7i {724,168}	#r44.1i {660,144}	#r26.1i {644,144}	#s4.11o {576,328}
TXC1b: <140> (376)			
#r53.7i {728,168}	#r45.1i {676,144}	#r26.2o {656,144}	#s4.5i {564,332}
TXC1t: <499> (884)			
#rp1.8i {868,252}	#v12.1i {656,304}	#u14.2i {112,228}	
TXC2: <437> (188)			
C319 {252,40}	#u15.1i {248,224}		
TXC2': <304> (88)			
#u15.3o {248,232}	#u38.14o {204,276}		
TXC2t: <467> (752)			
#rp2.8i {872,252}	#v23.1i {704,304}	#u15.2i {248,228}	
TXC3: <482> (244)			
C307 {204,40}	#u16.1i {264,224}		
TXC3': <298> (84)			
#u16.3o {264,232}	#u38.26o {228,280}		
TXC3t: <498> (748)			
#rp3.8i {876,252}	#v34.1i {448,308}	#u16.2i {264,228}	
TXC4: <510> (288)			
C443 {236,44}	#u17.1i {344,224}		
TXC4': <287> (76)			
#u17.3o {344,232}	#u42.14o {376,276}		
TXC4t: <478> (800)			
#rp4.8i {892,252}	#u17.2i {344,228}	#v45.1i {192,304}	
TXC5: <522> (320)			
C431 {188,44}	#u18.1i {328,224}		

TXC6': <359> (120) #u18.3o {328,232}	#u42.26o {400,280}		
TXC6t: <481> (888) #rp6.8i {888,252}	#v58.1i {464,304}	#u18.2i {328,228}	
TXC6: <588> (488) C419 {140,44}	#u19.1i {448,224}		
TXC6': <306> (88) #u19.3o {448,232}	#u43.14o {404,276}		
TXC6t: <281> (524) #u19.2i {448,228}	#rp6.8i {884,252}	#v67.1i {896,304}	
TXC7: <800> (552) C407 {92,44}	#u20.1i {484,224}		
TXC7': <299> (84) #u20.3o {464,232}	#u43.26o {428,280}		
TXC7t: <511> (728) #rp7.8i {880,252}	#u20.2i {464,228}	#v78.1i {256,308}	
TXD0: <58> (680) #u55.2i {692,148}	#u1.4i {160,236}	#u1.5i {160,240}	#u37.15o {176,280}
TXD0': <384> (516) #u1.6o {160,244}	#v9.1i {224,304}	C344 {352,40}	
TXD0a: <144> (776) #r10.2o {272,144}	#r60.1i {292,144}	#r51.2i {712,148}	#s3.1i {548,316}
TXD0b: <103> (764) #r11.2o {288,144}	#r60.2o {304,144}	#r51.3i {712,152}	#s3.2i {548,320}
TXD1: <60> (776) #u2.4i {96,236}	#u2.5i {96,240}	#u37.25o {200,284}	#u55.15i {704,164}
TXD1': <565> (788) #u2.6o {96,244}	#v20.1i {432,304}	C332 {304,40}	
TXD1a: <223> (412) #r51.8i {712,172}	#r22.2o {576,144}	#r63.1i {532,144}	#s4.1i {564,316}
TXD1b: <87> (396) #r51.9i {712,176}	#r23.2o {560,144}	#r63.2o {544,144}	#s4.2i {564,320}
TXD2: <18> (72) #u3.4i {232,236}	#u3.5i {232,240}	#u38.15o {204,280}	
TXD2': <476> (508) #v31.1i {16,308}	#u3.6o {232,244}	C320 {256,40}	
TXD3: <41> (100) #u38.25o {228,284}	#u4.5i {280,240}	#u4.4i {280,236}	
TXD3': <360> (396) #v42.1i {224,308}	#u4.6o {280,244}	C308 {208,40}	
TXD4: <12> (60) #u5.4i {360,236}	#u5.5i {360,240}	#u42.15o {376,280}	
TXD4': <374> (440) #u5.6o {360,244}	#v53.1i {288,304}	C444 {240,44}	
TXD5: <51> (152) #u6.4i {296,236}	#u6.5i {296,240}	#u42.25o {400,284}	
TXD5': <373> (436) #v64.1i {368,304}	#u6.6o {296,244}	C432 {192,44}	
TXD6: <19> (72) #u7.4i {432,236}	#u7.5i {432,240}	#u43.15o {404,280}	
TXD6': <530> (744) #u7.6o {432,244}	#v75.1i {80,308}	C420 {144,44}	
TXD7: <42> (100) #u8.4i {480,236}	#u8.5i {480,240}	#u43.25o {428,284}	
TXD7': <529> (712) #u8.6o {480,244}	#v86.1i {160,308}	C408 {96,44}	
VCC: <39> (18272)			
#u22.14i {832,224}	#u34.14i {784,224}	#u24.14i {768,224}	#u23.14i {720,224}
#u31.14i {676,224}	#u28.14i {660,224}	#u29.14i {644,224}	#u30.14i {628,224}
#u21.14i {556,224}	#u33.14i {508,224}	#u20.14i {476,224}	#u19.14i {460,224}
#u17.14i {356,224}	#u18.14i {340,224}	#u32.14i {324,224}	#u16.14i {276,224}
#u15.14i {260,224}	#u27.14i {156,224}	#u13.14i {140,224}	#u14.14i {124,224}
#u55.20i {704,144}	#u39.40i {44,144}	#u79.14i {840,64}	#u90.14i {824,64}
#u80.14i {808,64}	#u89.14i {792,64}	#u53.28i {776,64}	#u54.28i {748,64}
#u52.28i {720,64}	#u50.28i {692,64}	#u51.28i {664,64}	#u49.28i {636,64}
#u78.16i {604,64}	#u48.28i {560,64}	#u47.28i {532,64}	#u88.16i {500,64}
#u82.20i {456,64}	#u86.20i {440,64}	#u87.20i {424,64}	#u85.20i {408,64}
#u84.20i {392,64}	#u83.20i {376,64}	#u65.14i {360,64}	#u67.14i {344,64}
#u56.20i {328,64}	#u64.20i {312,64}	#u72.20i {296,64}	#u63.14i {280,64}
#u60.22i {264,64}	#u59.22i {244,64}	#u71.14i {224,64}	#u69.20i {208,64}
#u77.20i {192,64}	#u61.14i {176,64}	#u58.16i {156,64}	#u57.14i {140,64}
#u62.16i {124,64}	#u73.14i {108,64}	#u68.20i {92,64}	#u76.20i {76,64}
#u70.16i {60,64}	#u75.20i {44,64}	#u74.20i {28,64}	E184 {224,4}

E182 {216,4}	E181 {212,4}	E183 {220,4}	E105 {420,0}
E108 {424,0}	E104 {416,0}	E103 {412,0}	#pu1.11 {80,312}
#c37.11 {266,312}	#c36.11 {240,312}	#c33.11 {288,312}	#c29.11 {272,312}
#c25.11 {304,312}	#c24.11 {320,312}	#c21.11 {208,312}	#c17.11 {192,312}
#c13.11 {224,312}	#c12.11 {160,312}	#c9.11 {176,312}	#c5.11 {144,312}
#c1.11 {128,312}	#c50.11 {608,308}	#c49.11 {824,308}	#c48.11 {640,308}
#c47.11 {560,308}	#c46.11 {644,308}	#c45.11 {576,308}	#c44.11 {592,308}
#c43.11 {512,308}	#c42.11 {528,308}	#c41.11 {496,308}	#c40.11 {480,308}
#c39.11 {336,312}	#c38.11 {368,312}	#c63.11 {48,312}	#c62.11 {64,312}
#c61.11 {704,308}	#c60.11 {112,312}	#c59.11 {96,312}	#c58.11 {672,308}
#c57.11 {688,308}	#c56.11 {352,312}	#c55.11 {656,308}	#c54.11 {736,308}
#c53.11 {752,308}	#c52.11 {720,308}	#c51.11 {384,312}	#c76.11 {832,308}
#c75.11 {848,308}	#c74.11 {800,308}	#c73.11 {816,308}	#c72.11 {784,308}
#c71.11 {768,308}	#c70.11 {0,312}	#c69.11 {896,308}	#c68.11 {16,312}
#c67.11 {32,312}	#c68.11 {864,308}	#c65.11 {880,308}	#c64.11 {400,312}
#c90.11 {396,316}	#c88.11 {476,316}	#c87.11 {480,316}	#c86.11 {444,316}
#c85.11 {428,316}	#c84.11 {412,316}	#c83.11 {332,316}	#c82.11 {348,316}
#c81.11 {316,316}	#c80.11 {300,316}	#c79.11 {380,316}	#c78.11 {364,316}
#c77.11 {284,316}	#u45.231 {860,292}	#u46.231 {704,292}	#u40.231 {612,292}
#u44.231 {584,292}	#u43.91 {404,266}	#u42.91 {376,266}	#u38.91 {204,266}
#u37.91 {176,266}	#u26.31 {164,162}	#u25.31 {4,162}	#r3.11 {844,64}
#u18.11 {892,64}	#rp13.11 {608,64}	#u81.231 {588,132}	#rp12.11 {604,64}
#u41.231 {484,132}	#rp11.11 {160,64}		
WriteDatH': <418> {188}	#u88.111 {92,100}		
#u60.70 {248,88}			
XACK/: <94> {466}	#u57.80 {140,88}	E123 {492,0}	
#u57.60 {128,84}			
ZAS': <190> {1692}			
#u39.271 {44,196}	#u37.351 {200,244}	#u38.351 {228,244}	#u60.140 {264,96}
#u42.351 {400,244}	#u43.351 {428,244}	#u44.341 {584,248}	#u81.341 {588,88}
#u41.341 {484,88}	#u40.341 {612,248}	#u46.341 {704,248}	#u45.341 {860,248}
zClk: <188> {1584}			
#u39.141 {20,196}	#u37.201 {176,300}	#u38.201 {204,300}	#u42.201 {376,300}
#u43.201 {404,300}	#u60.120 {264,104}	#u41.161 {460,124}	#u81.161 {564,124}
#u44.161 {560,284}	#u40.161 {588,284}	#u46.161 {680,284}	#u45.161 {836,284}
zCS': <73> {262}			
#u75.11 {32,64}	#u75.191 {44,68}	#u70.41 {48,76}	#u62.41 {112,76}
#u60.100 {248,100}			
zData.0: <69> {1504}			
#u77.180 {192,72}	#u69.21 {196,68}	#u68.21 {80,68}	#u76.180 {76,72}
#u75.180 {44,72}	#u39.211 {44,220}	#u37.41 {176,236}	#u38.41 {204,236}
#u43.41 {404,236}	#u42.41 {376,236}	#u41.41 {460,76}	#u81.41 {564,76}
#u44.41 {560,236}	#u40.41 {588,236}	#u46.41 {680,236}	#u45.41 {836,236}
zData.1: <74> {1640}			
#u39.221 {44,216}	#u75.160 {44,80}	#u76.160 {76,80}	#u68.31 {80,72}
#u69.31 {196,72}	#u77.160 {192,80}	#u37.371 {200,236}	#u38.371 {228,236}
#u42.371 {400,236}	#u43.371 {428,236}	#u44.31 {560,232}	#u81.31 {564,72}
#u41.31 {460,72}	#u40.31 {588,232}	#u46.31 {680,232}	#u45.31 {836,232}
zData.2: <109> {1728}			
#u41.21 {460,68}	#u77.140 {192,88}	#u69.41 {196,76}	#u68.41 {80,76}
#u76.140 {76,88}	#u75.140 {44,88}	#u39.231 {44,212}	#u37.31 {176,232}
#u38.31 {204,232}	#u42.31 {376,232}	#u43.31 {404,232}	#u44.21 {560,228}
#u81.21 {564,68}	#u40.21 {588,228}	#u46.21 {680,228}	#u45.21 {836,228}
zData.3: <145> {1616}			
#u39.241 {44,208}	#u75.120 {44,96}	#u76.120 {76,96}	#u68.51 {80,80}
#u69.51 {196,80}	#u77.120 {192,96}	#u37.381 {200,232}	#u38.381 {228,232}
#u42.381 {400,232}	#u43.381 {428,232}	#u44.11 {560,224}	#u81.11 {564,64}
#u41.11 {460,64}	#u40.11 {588,224}	#u46.11 {680,224}	#u45.11 {836,224}
zData.4: <191> {1712}			
#u39.191 {20,216}	#u75.90 {32,96}	#u76.90 {64,96}	#u68.61 {80,84}
#u77.90 {180,96}	#u69.61 {196,84}	#u37.21 {176,228}	#u38.21 {204,228}
#u42.21 {376,228}	#u43.21 {404,228}	#u44.401 {584,224}	#u81.401 {588,64}
#u41.401 {484,64}	#u40.401 {612,224}	#u46.401 {704,224}	#u45.401 {860,224}
zData.5: <108> {1632}			
#u39.181 {20,212}	#u75.70 {32,88}	#u76.70 {64,88}	#u68.71 {80,88}
#u77.70 {180,88}	#u69.71 {196,88}	#u37.391 {200,228}	#u38.391 {228,228}
#u42.391 {400,228}	#u43.391 {428,228}	#u44.391 {584,228}	#u81.391 {588,68}
#u41.391 {484,68}	#u40.391 {612,228}	#u46.391 {704,228}	#u45.391 {860,228}
zData.6: <194> {1900}			
#u37.11 {176,224}	#u38.11 {204,224}	#u69.81 {196,92}	#u77.50 {180,80}
#u68.81 {80,92}	#u76.50 {64,80}	#u75.50 {32,80}	#u39.171 {20,208}
#u42.11 {376,224}	#u43.11 {404,224}	#u44.381 {584,232}	#u81.381 {588,72}
#u41.381 {484,72}	#u40.381 {612,232}	#u46.381 {704,232}	#u45.381 {860,232}
zData.7: <193> {1744}			
#u39.161 {20,204}	#u75.30 {32,72}	#u76.30 {64,72}	#u68.91 {80,96}
#u69.91 {196,96}	#u77.30 {180,72}	#u37.401 {200,224}	#u38.401 {228,224}
#u42.401 {400,224}	#u43.401 {428,224}	#u44.371 {584,236}	#u81.371 {588,76}
#u41.371 {484,76}	#u40.371 {612,236}	#u46.371 {704,236}	#u45.371 {860,236}
zDESbyte': <238> {60}			
#u61.101 {176,80}	#u62.140 {124,72}		
zDESword': <264> {68}			
#u61.91 {176,84}	#u62.150 {124,68}		
zDialer0': <618> {684}			
#u44.361 {584,240}	#u70.120 {60,80}		

zDialer1': <632> (984)
 #u45.38i {860,240} #u70.13o {80,76}

zDialer2': <825> (812)
 #u46.38i {704,240} #u70.14o {80,72}

zDS': <192> (1736)
 #u45.5i {836,240} #u48.5i {680,240} #u40.5i {588,240} #u41.5i {460,80}
 #u81.5i {564,80} #u44.5i {560,240} #u43.36i {428,240} #u42.36i {400,240}
 #u38.38i {228,240} #u37.36i {200,240} #u69.11i {208,100} #u63.5o {268,80}
 #u39.28i {44,200}

zEProm': <586> (468)
 #u81.38i {588,80} #u62.13o {124,78}

zIE: <425> (176)
 #u42.7i {376,248} #u38.6o {204,244}

zIntA': <186> (466)
 #u60.9o {248,96} #u37.8i {176,252} #u38.8i {204,252} #u42.8i {376,252}
 #u43.8i {404,252}

zMisc': <549> (360)
 #u41.36i {484,80} #u62.12o {124,80}

zModem': <821> (704)
 #u40.38i {612,240} #u70.10o {60,88}

zRW: <189> (1676)
 #u39.28i {44,192} #u37.34i {200,248} #u38.34i {228,248} #u60.13o {264,100}
 #u42.34i {400,248} #u43.34i {428,248} #u44.6i {560,244} #u81.6i {564,84}
 #u41.6i {460,84} #u40.6i {588,244} #u46.6i {680,244} #u45.6i {836,244}

zSCC0': <487> (252)
 #u37.33i {200,252} #u62.7o {112,88}

zSCC1': <493> (264)
 #u38.33i {228,252} #u62.9o {124,92}

zSCC2': <583> (440)
 #u42.33i {400,252} #u62.10o {124,88}

zSCC3': <587> (472)
 #u43.33i {428,252} #u62.11o {124,84}

zXACK': <234> (56)
 #u60.8o {248,92} #u71.3i {212,72}