

**MT-80Z
(FOX)
SCHEMATIC
and
BOM**

80-01-0254
11/85



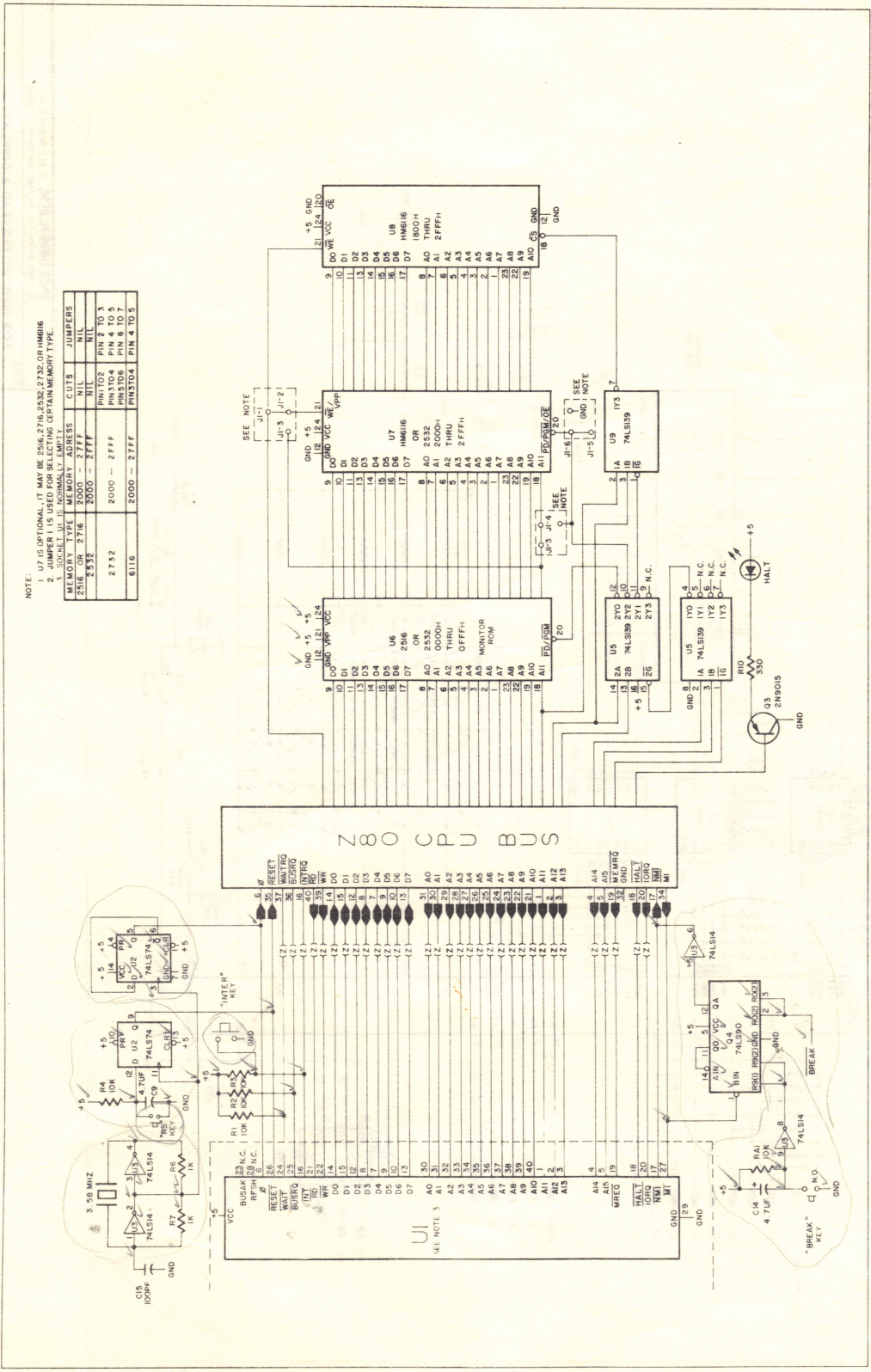
E&L Instruments
An Interplex Electronics Company
70 Fulton Terrace, P.O. Box 1942
New Haven, Connecticut 06509
(203) 624-3103 • TWX 710 465-1227

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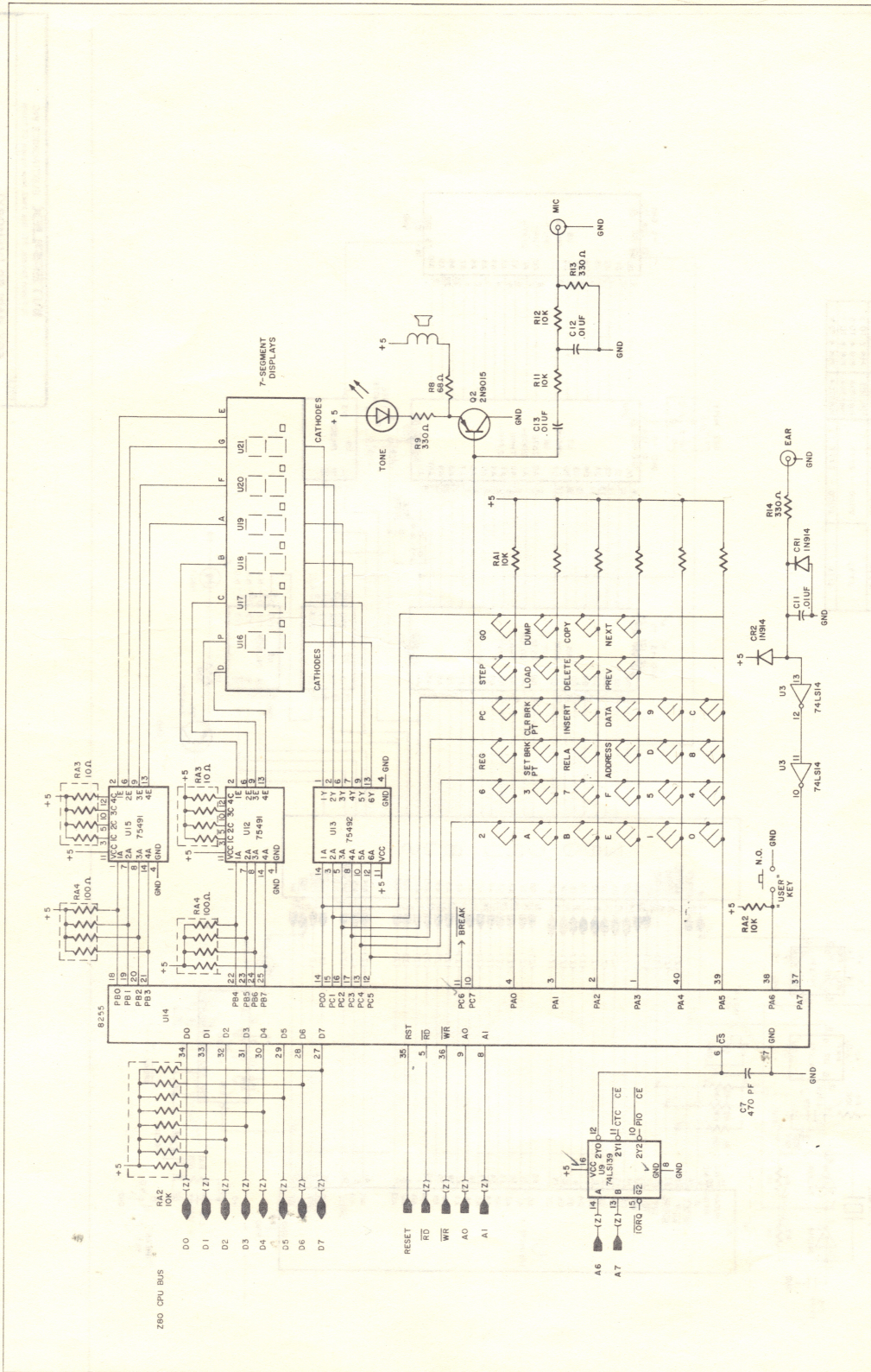
Schematic	Fox Main Bd (Memory)	Pg. 1
Schematic	Fox Main Bd (Keypad & Display)	Pg. 2
Schematic	Fox Main Bd (CTC) (PIO)	Pg. 3
Schematic	Fox Expansion Bd (Z80 & Buffer)	Pg. 4
Schematic	Fox Expansion Bd (I/O)	Pg. 5
Schematics	Fox Expansion Bd (Power Supply W/Regulated Power Adapters)	Pg. 6
	Fox Expansion Bd (Power Supply W/Heatsink & Unregulated Power Adapters)	Pg. 6
BOM	115 Volt	Pg. 7
BOM	230 Volt	Pg. 9

NOTE: U1 IS OPTIONAL. IT MAY BE 2716, 2716, 2716, 2716, 2716, 2716
 2. JUMPER IS USED FOR SELECTING CERTAIN MEMORY TYPE.
 3. SOCKET U1 IS NORMALLY EMPTY.

MEMORY TYPE	MEMORY ADDRESS	CUTS	JUMPERS
2716	2000 - 2FFF	PH1T02	NIL
2732	2000 - 2FFF	PH1T02	PIN 2 TO 3
2732	2000 - 2FFF	PH1T04	PIN 4 TO 5
6116	2000 - 2FFF	PH1T04	PIN 4 TO 5



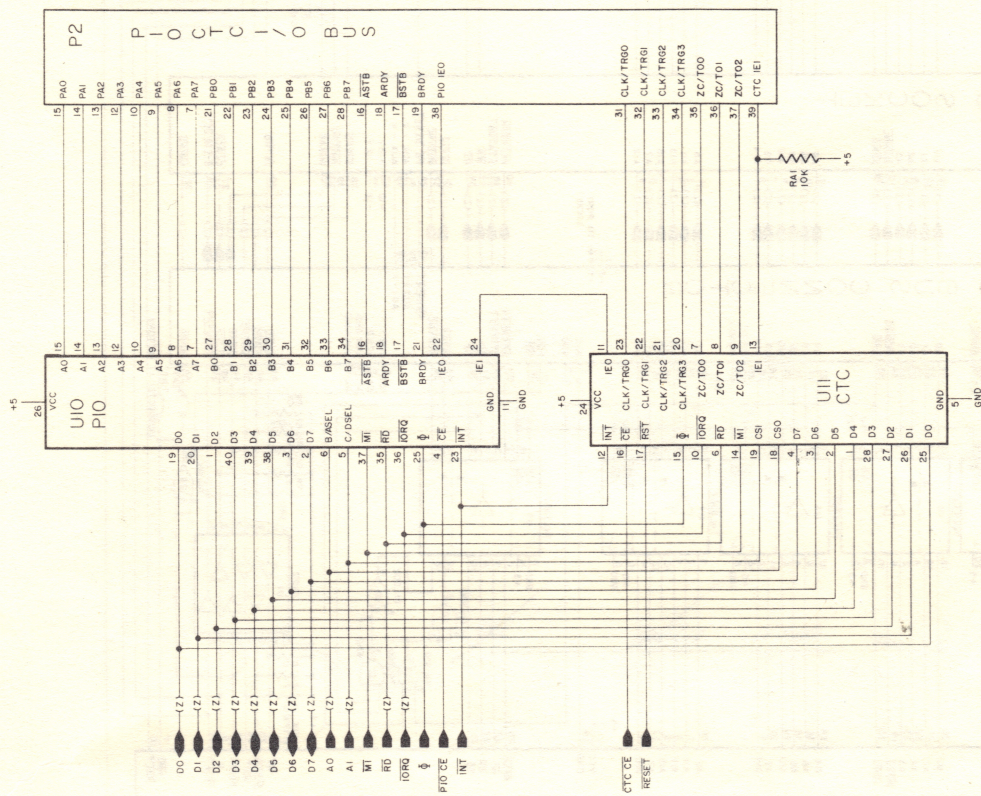
INTERPLEX ELECTRONICS INC. 70 Fulton Terrace, P.O. Box 1942, New Haven, CT 06509			
TITLE: FOX MAIN BD (MEMORY)			
MODEL USED: MT-80Z	DATE: 8/82	PART NO: 00-06-0006	REV: B
SCALE:	DRAWN: TL	CHECK: MV	SHI. I. OF 3 SHTS



12 3 4 5 6
12 3 4 5 6
12 3 4 5 6
12 3 4 5 6
12 3 4 5 6
12 3 4 5 6

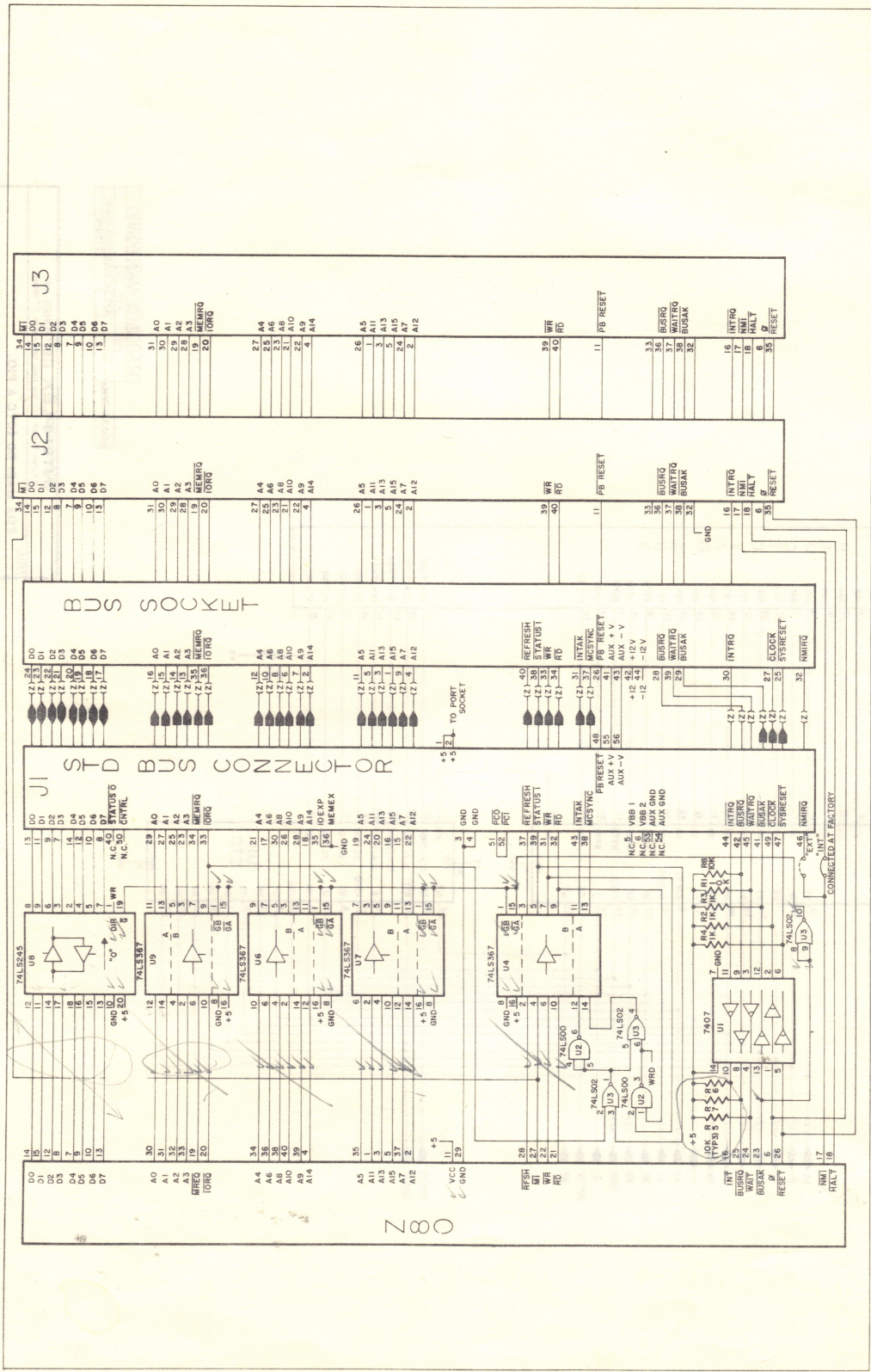
12 3 4 5 6
12 3 4 5 6
12 3 4 5 6
12 3 4 5 6
12 3 4 5 6
12 3 4 5 6

TITLE		INTEPLEX ELECTRONICS, INC.	
		70 Fulton Terrace, P.O. Box 1942, New Haven, CT 06509	
PART NO.		FOX MAIN BD (KEYPAD & DISPLAY)	
DATE	8/82	REV.	B
APP.	MV	SHIT	2 OF 6 SHITS
DRWEN.	TL	SCALE	MT-80Z
CLK.K.D.	MV		



MT-80Z FOX MAIN BOARD	
FOX	REV 12-5-85 (10-0-10)
BOM 3-41-0080	DATE

INTERPLEX ELECTRONICS, INC.		70 Fulton Terrace, PO Box 1942, New Haven, CT 06509	
TITLE: FOX MAIN BD (CTC & PIO)			
MODEL USED ON:	MT-80Z	DATE:	8/82
SCALE:		DRAWN:	TL
		CHECKED:	MV
		APP:	MV
		PART NO.:	08-06-0086
		REV:	B
		SHT. OF:	3 SHTS

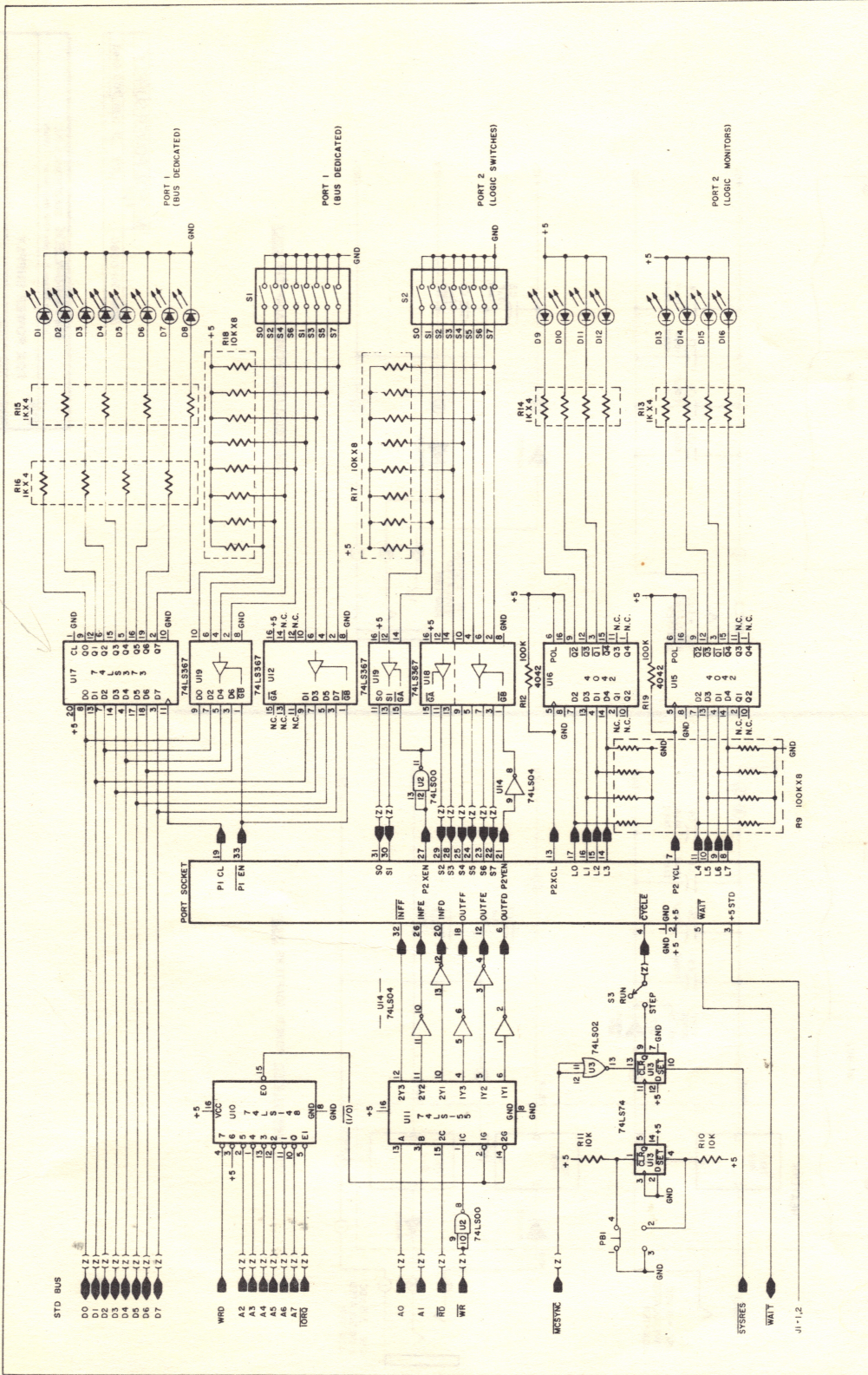


INTERPLEX ELECTRONICS, INC.
 70 Faber, Wrentham, P.O. Box 1942, New Haven, CT 06509

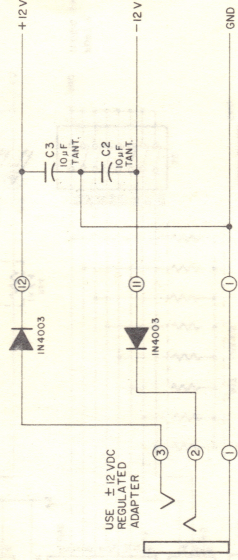
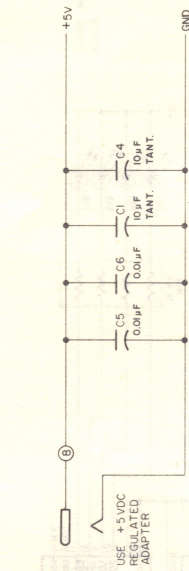
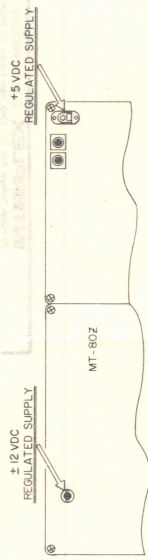
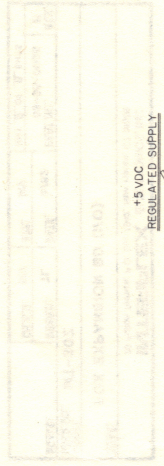
TITLE: FOX EXPANSION BD (Z80 & BUFFER)

DATE: 8/82
 DRAWN: TL
 CHECKD: MV
 APP: MV
 PART NO.: 08-06-0085
 REV: B
 SHEET: 4 OF 8 SHITS

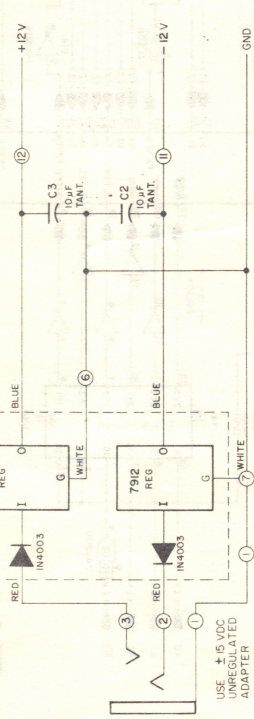
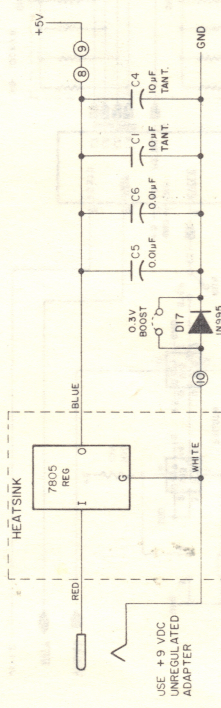
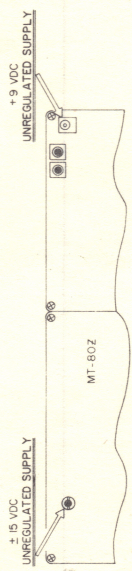
Trig. pin 37 (2-80)



TITLE		INTERPLEX ELECTRONICS, INC.	
70 Fulton Terrace, P.O. Box 1942, New Haven, CT 06509			
MODEL	MT-80Z	DATE	8/82
USED/OL.		DRAWN	TL
SCALE		CHECKED	MV
		APP.	MV
		SHT. # OF	2 SHTS
		PART. NO.	05-05-0085
		REV.	B



USE REGULATED POWER ADAPTERS ONLY



USE UNREGULATED POWER ADAPTERS ONLY

MT-80Z POWER SUPPLY	
BOM 341-0080	EXP. 8-7-85 700-0140
FOX	

INTERPLEX ELECTRONICS INC. 70 Fulton Terrace, P.O. Box 1942, New Haven, CT 06509			
TITLE FOX POWER SUPPLY			
MODEL USED ON MT-80Z	DRAWN. TL	DATE 8/82	PART NO. 05-06-0086
SCALE	CHK'D. MV	APP. MV	REV. B
			SHT. 2 OF 2 SHTS

BOM # 341-0080 THE FOX---MT-80Z

LINE	COMPONENT	DESCRIPTION	QTY	LVL
1	17-01-0007	BOM REV H		1
2	05-03-0213	FOX EXPNSN BD ASSY	1	1
3	95-01-0211	FOX EXPNSN PC BD R/C	1	2
4	44-01-0074	SN74LS00	1	2
5	44-01-0091	SN74LS155	1	2
6	44-01-0097	74LS367	7	2
7	44-01-0059	RCA CD4042AE	2	2
8	44-01-0262	SN74LS148	1	2
9	44-01-0263	SN74LS245	1	2
10	44-01-0087	SN74LS74	1	2
11	44-01-0075	SN74LS02	1	2
12	44-01-0275	74LS373	1	2
13	44-01-0200	SN7407	1	2
14	44-01-0076	SN74LS04	1	2
15	- - 1			1
16	- - 1			1
17	- - 1			1
18	37-01-1025	CCRES 1/4W 1K OHM 5%	3	2
19	37-01-1035	CCRES 1/4W 10K OHM 5%	7	2
20	37-01-1045	CCRES 1/4W 100K OHM 5%	2	2
21	37-08-0002	10K COM SIP 9RES	2	2
22	37-08-0003	100K COM SIP 9 RES	1	2
23	37-08-0001	1K SERIES SIP 4RES	4	2
24	- - 1			1
25	- - 1			1
26	- - 1			1
27	- - 1			1
28	- - 1			1
29	08-02-0020	10UF TAN CAP 20V 1.5"	4	2
30	08-04-0103	CER CAP .01 MFD. 50V	3	2
31	- - 1			1
32	- - 1			1
33	- - 1			1
34	- - 1			1
35	10-01-4003	IN4003 DIODE	2	2
36	- - 1			1
37	10-02-0018	MINI RED LED 100 CENT*	16	2
38	77-01-0167	FOX SK10/IF 44 SKT LBL	1	2
39	77-01-0168	FOX IF33 SKT LBL	1	2
40	40-09-0001	8 POSN DIP SWITCH	2	2
41	02-03-0001	SK10-PL UNIV SKT NEW	1	2
42	02-03-0018	SK-50 IF-33 HF SKT R/-	1	2
43	02-03-0021	SK10 HALF/IF44 R/A	1	2
44	20-03-0091	SULLINS ETA28DRJ1 CONN	1	2
45	20-03-0095	LSI-11 CONN KEY	1	1
46	84-05-0005	4-40X1/2" FLHD SCREW	11	2
47	- - 1			1
48	85-02-0013	#4 SPLIT LW 1/32	11	2
49	86-03-0004	4-40X3/16" HEXNUT SMAL	11	2

BOM # 341-0080 THE FOX---MT-80Z

LINE	COMPONENT	DESCRIPTION	QTY	LVL
50	20-02-0014	14 PIN DIP SKT STD.	5	2
51	20-02-0004	16 PIN DIP SKT STD	11	2
52	20-02-0009	20PIN DIP SKT COM STD	2	2
53	20-02-0040	40 PIN DIP SKT COM STD	1	2
54	77-01-0170	FOX SPKR/BD LBL	2	2
55	34-01-0012	20 COND FLEX CABLE 2LG	2	2
56	40-03-0024	SPST PWR SWITCH ALCO	1	2
57	40-04-0027	SPDT PB SW (SHAWDOW)	1	2
58	- - 1			1
59	20-03-0120	3.5MM PHONE JACK 3COND	1	2
60	20-03-0123	DC JCK 2.5 PIN DJ-001F	1	2
61	20-03-0124	DC FML PLUG 2.5MM CNTR	1	2
62	66-00-0157	DC JACK MOD / MPF-1B	1	2
63	66-00-0158	DC PLUG MOD 531-0009	1	2
64	- - 1			1
65	- - 1			1
66	05-03-0208	HOUSING ASSY FOX	1	1
67	94-03-0089	FOX CASE PFC	1	2
68	84-01-0004	6-19X1/2 PLSTTE BLK	8	2
69	81-01-0129	FX KYPD RTNR PLTE R/A	1	2
70	81-02-0129	FINISH FOR 6190017	1	2
71	77-01-0172	E&L ADDRS & LOGO W/B	1	2
72	77-01-0166	FOX PACKAGE LABEL	1	2
73	73-01-0021	MPROF MOD B - 5V ADPTR	1	2
74	92-01-0009	RBBR BMPRS SMITH #2451	4	2
75	77-01-0179	ADAPTER WARNING LABEL	2	2
76	66-00-0153	WARNING LBL ATTACHMENT		2
77	85-01-0034	#4 FLAT NYLON WASHER	2	2
78	- - 1			1
79	80-01-0254	MT-80Z SCHEM & BOM R/-	1	1
80	80-01-0236	FOX USER MANUAL R/B	1	1

06/26/84

INTERPLEX ELECTRONICS, INC.
BILL OF MATERIAL LISTING

PAGE 1

BOM # 341-0081 THE FOX--MT-80Z-230V

LINE	COMPONENT	DESCRIPTION	QTY	LVL
1	17-01-0002	BOM REV C		1
2	57-01-0034	SAME AS 341-0080	1	1
3	41-01-0038	ADPTR +5 REG 1A 230V	1	2

BOM # 041-0081 THE FOX--MT-801-520A

LINE	COMPONENT	DESCRIPTION	QTY	LVL
1	45-01-0005	BOM REV 1	1	1
2	21-01-002A	PAK AS 241-000B	1	1
3	41-01-003B	ADPTR AS PRT 1A 520A	1	2

