FIELD MAINTENANCE PRINT SET

TABLE OF CONTENTS

B-TC-6300Y-0-DBU	6300Y PEDESTAL MOUNT MICRO VAX II (TC)
B-DD-6300Y-0-DBU	6300Y PEDESTAL MOUNT MICRO VAX II (DD ONLY)
K-PL-6300Y-0-DBP	6300Y PEDESTAL MOUNT MICRO VAX II (PL)
B-DD-7022385-0-DBU	MICRO VAX II ASSY (DD ONLY)
K-PL-7022385-0-DBP	MICRO VAX II ASSY (PL)
D-UA-7022385-0-DBU	MICRO VAX II ASSY
K-PL-7021860-0-DBP	MICRO CHASSIS ASSY (PL)
D-AD-7021860-0-DBU	MICRO CHASSIS ASSY
E-IC-7021860-0-DBU2	SYSTEM CABLE INTERCONNECT
E-BD-7021860-0-DBU3	SYSTEM SIGNAL INTERCONNECT
D-AD-7019985-0-DBU	CHASSIS ASSY
K-PL-7019985-0-DBP	CHASSIS ASSY (PL)
B-DD-5415633-0	BA23 SIGNAL DISTRIBUTION PANEL (DD ONLY)
K-PL-5415633-0-DBP	BA23 SIGNAL DISTRIBUTION PANEL (PL)
E-UA-5415633-0-0	BA23 SIGNAL DISTRIBUTION PANEL
D-CS-5415633-0-1	BA23 SIGNAL DISTRIBUTION PANEL
B-DD-H9278-A	8 SLOT BACKPLANE (DD ONLY)
K-PL-H9278-A-DBP	8 SLOT BACKPLANE (PL)
E-UA-H9278-A-0	8 SLOT BACKPLANE
E-CS-H9278-A-1	8 SLOT BACKPLANE

UNIT VARIATIONS COVERED BY THIS PRINT SET
6300Y-A2
6300Y-A3
6300Y-B2
6300Y-B3
6300Y-C2
6300Y-C3
6300Y-D2
6300Y-D3

6300Y

FIELD MAINTENANCE PRINT SET

DIGITAL EQUIPMENT CORPORATION

PRINT SET PART NUMBER MP-02065-01
REV A1

FILE NAME: TC-6300Y-0-DBUA

REVISION HISTORY		
REV.	ECO NUMBER	DATE
A	INITIAL	

DRN. D. RICHARD	DATE 1 JAN 85	
CHK'D D. HEALY	DATE 8 MAR 85	
DES. ENG. J. NICHOLS	DATE 8 MAR 85	
RESP. ENG. J. NICHOLS	DATE 8 MAR 85	
FIELD SERVICE G. LIDINGTON	DATE 8 MAR 85	
TOP DOC: B-DD-6300Y-0-DBU		

TITLE: 6300Y PEDESTAL MOUNT MICRO VAX II

SIZE	CODE	NUMBER	REV.
B	TC	6300Y-0-DBU	A

SHEET 1 OF 2

SIZE	CODE	NUMBER	REV.
B	TC	6300Y-0-DBU	A

TABLE OF CONTENTS CONTINUED

B-DD-M7606-0	MICRO VAX II CPU (DD ONLY)
D-UA-M7606-0-0	MICRO VAX II CPU MODULE
K-PL-M7606-0-DBP	MICRO VAX II CPU MODULE (PL)
K-BD-M7606-0-1	MICRO VAX II CPU MODULE
D-CS-M7606-0-1	MICRO VAX II CPU MODULE
B-DD-M8639-0	RD/RX CONTROLLER BD. (DD ONLY)
K-PL-M8639-0-DBP	RD/RX CONTROLLER BD. (PL)
D-UA-M8639-0-0	RD/RX CONTROLLER BD.
D-CS-M8639-0-1	RD/RX CONTROLLER BD.
B-DD-M9047-0	GRANT CONT (DD ONLY)
D-UA-M9047-0-0	GRANT CONT
D-CS-M9047-0-1	GRANT CONT
D-AD-7022007-0-0	CONTROL PANEL ASSY
K-PL-7022007-0-DBP	CONTROl PANEL ASSY (PL)
B-DD-5416458-0-0	BA23 FRONT PANEL
D-UA-5416458-0-0	BA23 FRONT PANEL
K-PL-5416458-0-DBP	BA23 FRONT PANEL (PL)
D-CS-5416458-0-1	BA23 FRONT PANEL
B-DD-5416744-0-0	FUNCTION SEL/SLU CONSOLE CONN
D-UA-5416744-0-0	FUNCTION SEL/SLU CONSOLE CONN
K-PL-5416744-0-DBP	FUNCTION SEL/SLU CONSOLE CONN (PL)
D-CS-5416744-0-1	FUNCTION SEL/SLU CONSOLE CONN
K-PL-KA630-0-DBP	MICRO VAX CPU OPTION (PL)
B-DD-H3263-0-0	MICRO VAX CONFIGURATION CONN
D-UA-H3263-0-0	MICRO VAX CONFIGURATION CONN
K-PL-H3263-0-DBP	MICRO VAX CONFIGURATION CONN (PL)
D-CS-H3263-0-1	MICRO VAX CONFIGURATION CONN
B-DD-M7607-0-0	1MB MEMORY EXP
D-UA-M7607-0-0	1MB MEMORY EXP
K-PL-M7607-0-DBP	1MB MEMORY EXP (PL)
D-CS-M7607-0-1	1MB MEMORY EXP
B-DD-M7608-0-0	2MB MEMORY EXP
D-UA-M7608-0-0	2MB MEMORY EXP
K-PL-M7608-0-DBP	2MB MEMORY EXP (PL)
D-CS-M7608-0-1	2MB MEMORY EXP
A-PS-3021749-0-0	H7864-A P.S. (REV 20)
C-IA-7020449-0-DBU	CABLE, FAN
K-PL-7020449-0-DBP	CABLE, FAN (PL)
D-IA-7020435-0-DBU	CABLE, D. C. POWER DRIVE
K-PL-7020435-0-DBP	CABLE, D. C. POWER DRIVE
D-IA-7020450-0-DBU	CABLE, D. C. POWER BACKPLANE
K-PL-7020450-0-DBP	CABLE, D. C. POWER BACKPLANE (PL)
D-IA-7020451-0-DBU	CABLE, FRONT PANEL TO BACKPLANE
K-PL-7020451-0-DBP	CABLE, FRONT PANAL TO BACKPLANE (PL)
D-IA-BC02D-0-DBU	50 COND SIGNAL (BC02D)
K-PL-BC02D-0-DBP	50 COND SIGNAL (BC02D) (PL)
A-PS-1700712-0-0	CABLE ASSY, 20 PIN
A-PS-1700624-0-0	CABLE, CONSOLE BACKPLANE (10 PIN)
A-PS-1700716-0-0	CABLE ASSY MEM BUSING

TITLE:	SHEET 2 OF 2	SIZE	CODE	NUMBER	REV.
6300Y PEDESTAL MOUNT MICRO VAX II		B	TC	6300Y-0-DBU	A

DRAWING DIRECTORY

UNIT VARIATIONS

VAR	TITLE
630QY-A2	MICRO VAX II PEDESTAL 1 MB FP 120V
630QY-A3	MICRO VAX II PEDESTAL 1 MB FP 240V
630QY-B2	MICRO VAX II PEDESTAL 1 MB NO FP 120V
630QY-B3	MICRO VAX II PEDESTAL 1 MB NO FP 240V
630QY-C2	MICRO VAX II PEDESTAL 256 KB FP 120V
630QY-C3	MICRO VAX II PEDESTAL 256 KB FP 240V
630QY-D2	MICRO VAX II PEDESTAL 256 KB NO FP 120V
630QY-D3	MICRO VAX II PEDESTAL 256 KB NO FP 240V

FILE NAME: DD-630QY-0-DBUA

REVISIONS

REV.	CHANGE NO.	CHK
A	INITIAL	

USED ON OPTION/MODEL

SHEET 1 OF 3

		DATE
DRN.	D. RICHARD	12-12-84
CHK'D	D. HEALY	03-08-85
PROJ. ENG.	J. NICHOLS	03-08-85
PROD.	K. WORTMAN	03-08-85

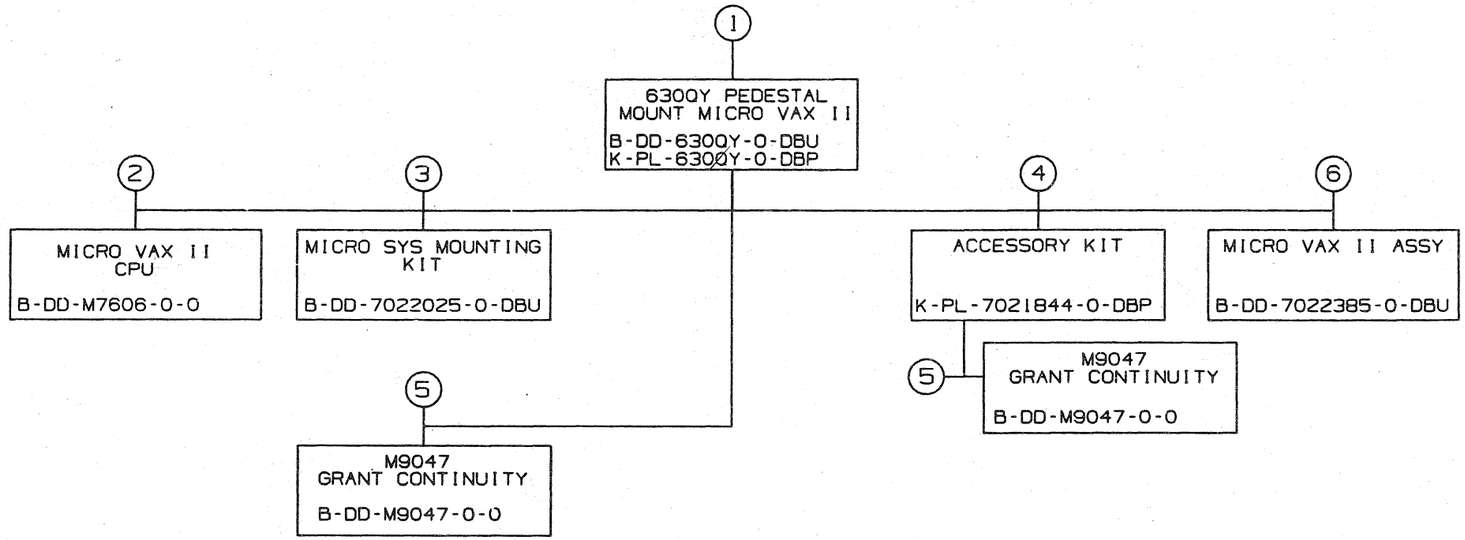
TOP DOC. B-DD-630QY-0-DBU

TITLE: 630QY PEDESTAL MOUNT MICRO VAX II

digital

SIZE	CODE	NUMBER	REV.
B	DD	630QY-0-DBU	A

DIST.



TITLE:	SHEET	SIZE	CODE	NUMBER	REV.
6300Y PEDESTAL MOUNT MICRO VAX II	2 OF 3	B	DD	6300Y-0-DBU	A

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MP-02065-01	6300Y PEDESTAL MOUNT MICRO VAX II (MP)	—
	B-TC-6300Y-0-DBU	6300Y PEDESTAL MOUNT MICRO VAX II (TC)	—
	K-PL-6300Y-0-DBP	6300Y PEDESTAL MOUNT MICRO VAX II (PL)	E/M
	A-PS-1700083-0-0	PWR CORD TERM 3-14 SJT 125	E/M
	D-MD-7429910-0-DBU	MEDALLION MICRO VAX II	M
	A-PS-3617880-0-0	LABLE, FCC	M
	A-PS-3617674-0-0	LABEL, SERIAL	M
	A-PS-3617905-0-0	LABEL, WARNING,EQUIP RATING	M
2	B-DD-M7606-0-0	MICRO VAX II CPU	E/M
3	B-DD-7022025-0-DBU	MICRO SYSTEM MTG KIT	M
4	K-PL-7021844-0-DBP	ACCESSORIES KIT	M
	B-MD-7427012-0-DBU	FOOT	M
	D-MD-7428501-0-DBU	STRIP, FILLER	M
	A-PS-1700313-0-0	CABLE ASSY, BC22 W/CONN 10'	M
	C-IA-7427720-0-DBU	PLATE CONN, 40/50 PIN	M
	K-PL-7427720-0-DBP	PLATE CONN, 40/50 PIN (PL)	M
	A-PS-3621549-0-0	LABEL, CONTROL PANEL, MICRO PDP-11	M
	A-PS-3622092-0-0	LABEL, LCP5 CONFIGURATION	M
	A-PS-3622091-0-0	LABEL, LCP5 COUNTRY DOCUMENTATION	M
	A-PS-1700301-0-0	CABLE ASSY 10' LG (BCC08-10)	M
	A-PS-3623314-0-0	CABLE, CPU	M
5	B-DD-M9047-0-0	GRANT CONTINUITY CARD	E/M
6	B-DD-7022385-0-DBU	MICRO VAX II ASSY	E/M

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

digital

TITLE:	SHEET	SIZE	CODE	NUMBER	REV.
6300Y PEDESTAL MOUNT MICRO VAX II	3 OF 3	B	DD	6300Y-0-DBU	A

DRB 108A

AUTOMATED BY PRTLST.5R(55) — P A R T S L I S T —

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION A2 A1	A3 A1	B2 A1	B3 A1	C2 A1	C3 A1	D2 A1	D3 A1
					VARIATION REVISIO LEVEL:								
1	1	B-DD-M7606-0-0	M7606-AA		MICROVAX II W/1MB,FP,INCLUDES TI	1	1	-	-	-	-	-	-
2	2	B-DD-M7606-0-0	M7606-BA		M7606-AA W/NO FP (CPU,1MB) = M76	-	-	1	1	-	-	-	-
3	3	B-DD-M7606-0-0	M7606-CA		M7606-AA W/256KB MEM (CPU,256KB,	-	-	-	-	1	1	-	-
4	4	B-DD-M7606-0-0	M7606-DA		M7606-AA W/256KB MEM,NO FP = M76	-	-	-	-	-	-	1	1
5	5	A-PS-1700083-0-0	1700083-02	K	PWR CORD,TERM 3-14 SJT 125	1	-	1	-	1	-	1	-
6	6	A-PS-1700083-0-0	1700083-01	K	PWR CORD,TERM 3-14 SJT 250	-	1	-	1	-	1	-	1
7	7	D-AD-7022025-0-DBU	7022025-02		MICRO SYSTEM MOUNTING KIT	1	1	1	1	1	1	1	1
8	8	B-DD-7022385-0-DBU	7022385-01		MICRO VAXII ASSY.	1	1	1	1	1	1	1	1
9	9	K-PL-7021884-0-DBP	7021844-04		ACCESSORY KIT	1	1	1	1	1	1	1	1
10	10	SEE NOTE 1	7429910-04	A	MEDALLION,MICROVAX II	1	1	1	1	1	1	1	1
11	11	SEE NOTE 1	1220113-01	B	SPRING,COMPRESSION .3000DX .380	1	1	1	1	1	1	1	1
12	12	A-PS-3617880-0-0	3617880-02		LABEL,FCC,CLASS A,PROCESSOR	1	-	1	-	1	-	1	-
13	13	A-PS-3617674-0-0	3617674-14		LABEL,SERIAL & POWER,UNIVERSAL W	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
14	14	A-PS-3617674-0-0	3617674-20	A	LABEL,SERIAL/POWER,W/UL & CSA MA	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
15	15	A-PS-3617674-0-0	3617674-22	A	LABEL,SERIAL/POWER,W/UL & CSA MA	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
16	16	A-PS-3617905-0-0	3617905-16	A	LABEL,WARNING EQUIP. RATING,100-	1	-	1	-	1	-	1	-
17	17	A-PS-3617905-0-0	3617905-17	A	LABEL,WARNING EQUIP. RATING,220-	-	1	-	1	-	1	-	1
18	18	A-PS-1700198-0-0	1700198-00	B	PWR CORD,TERM 3-18 250	-	REF	-	REF	-	REF	-	REF
19	19	A-PS-1700199-0-0	1700199-00	A	PWR CORD,TERM 3 250	-	REF	-	REF	-	REF	-	REF
20	20	A-PS-1700209-0-0	1700209-00	A	PWR CORD,TERM 3- .75MM 5A 250	-	REF	-	REF	-	REF	-	REF
21	21	A-PS-1700210-0-0	1700210-01	A	PWR CORD,TERM 3- .75MM 250V 6	-	REF	-	REF	-	REF	-	REF
22	22	A-PS-1700310-0-0	1700310-01	A	PWR CORD,TERM 3- .75MM 250	-	REF	-	REF	-	REF	-	REF
23	23	A-PS-1700364-0-0	1700364-01	A	PWR CORD,TERM 3- .75MM 250V	-	REF	-	REF	-	REF	-	REF
24	24	B-DD-M9047-0-0	M9047-00		QBUS GRANT CONTINUITY,1ST USED I	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R

25 NOTE: 1:FOR INSTALLATION OF MEDALLION & SPRING REF. D-UA-7022385-0-DBU

REVISION HISTORY			BASIC PART NO: 630QY				
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: D. RICHARD	DATE: 21-DEC-84	D I G I T A L	
---	INITIAL	A	SECTION.VARIATION INDEX [A]A2,A3,B2,B3,C2,C3, D2,D3	CHK'D: D. HEALY	DATE: 08-MAR-85	TITLE PARTS LIST 630QY PEDESTAL MOUNT MICRO VAX II	
			[B]	DES.ENG: J. NICHOLS	DATE: 08-MAR-85	DOCUMENT NUMBER	
			[C]			SIZE / CODE / NUMBER / REV	
			[D]	RESP.ENG.: J. NICHOLS	DATE: 08-MAR-85	K / PL / 630QY-0-DBP / A	
			[E]	MFG.ENG.: K. WORTMAN	DATE: 08-MAR-85	RELEASE DATE: 08-MAR-85	
			[F]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER: B-DD-630QY-0-DBU	FILE NAME: ML824A.PLS	EDIT # 28

DRAWING DIRECTORY

UNIT VARIATIONS

VAR	TITLE
7022385-01	MICRO VAX II ASSY

FILE NAME: DD7022385-0-DBUA

REVISIONS		
REV.	CHANGE NO.	INITIAL
A		
CHK		

USED ON OPTION/MODEL

SHEET 1 OF 4

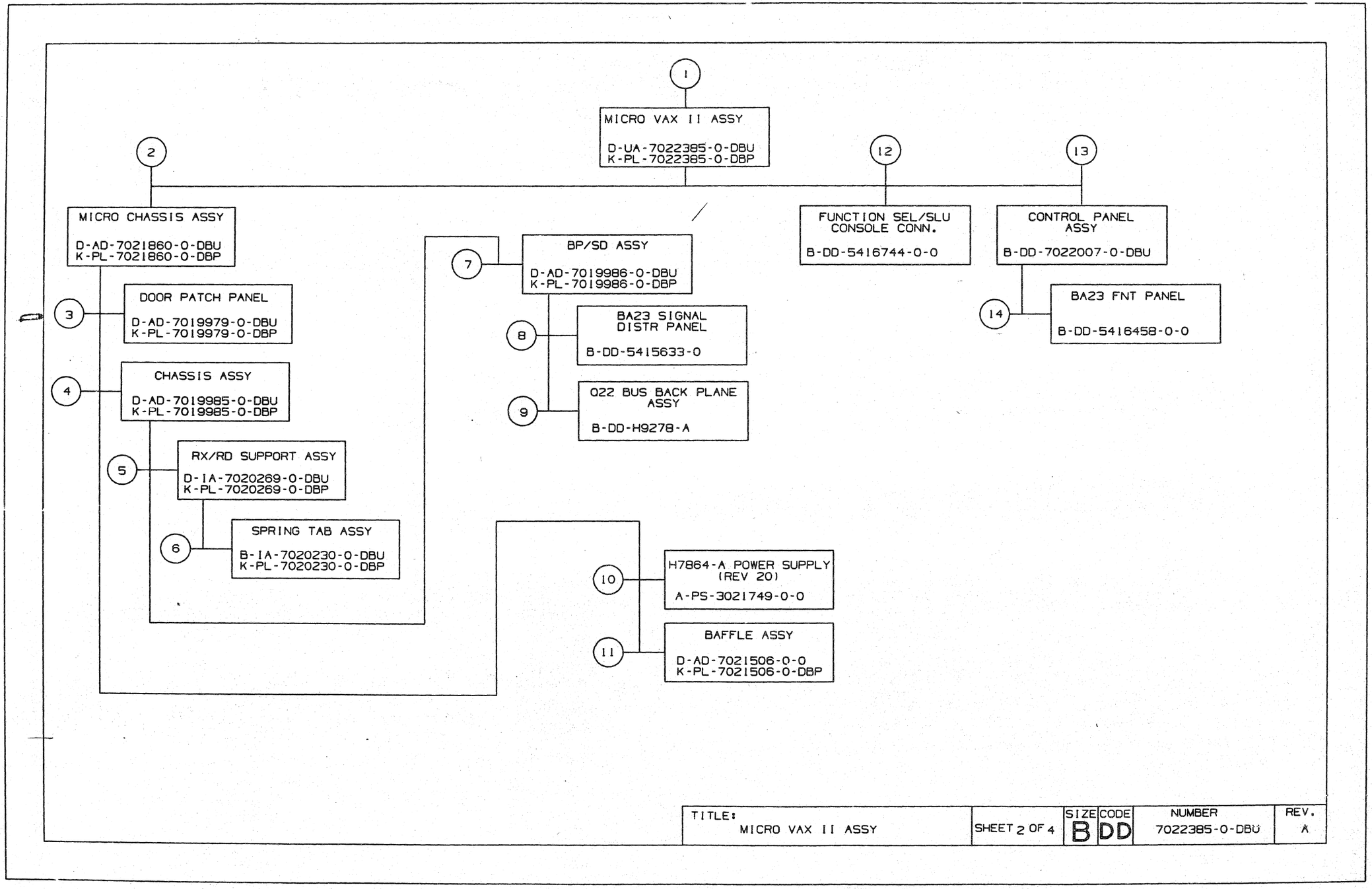
DRN. D. RICHARD	DATE 28DEC84	
CHK'D D. HEALY	DATE 26FEB85	
PROJ. ENG. J. MCMULLIN	DATE 26FEB85	
PROD. K. WORTMAN	DATE 26FEB85	
TOP DOC. B-DD-7022385-0-DBU		

TITLE: MICRO VAX II ASSY

digital

SIZE	CODE	NUMBER	REV.
B	DD	7022385-0-DBU	A

DIST.



TITLE:	SHEET	SIZE	CODE	NUMBER	REV.
MICRO VAX II ASSY	2 OF 4	B	DD	7022385-0-DBU	A

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	D-UA-7022385-0-DBU	MICRO VAX II ASSY	E/M
	K-PL-7022385-0-DBP	MICRO VAX II ASSY (PL)	E/M
	A-PS-1700712-0-0	CABLE ASSY, 20 PIN	E/M
	A-PS-1700624-0-0	CABLE, CONSOLE BACKPLANE (10 PIN)	E/M
2	D-AD-7021860-0-DBU	MICRO CHASSIS ASSY	E/M
	K-PL-7021860-0-DBP	MICRO CHASSIS ASSY (PL)	E/M
	E-BD-7021860-0-DBU3	SYSTEM SIGNAL INTERCONNECT	E
	E-IC-7021860-0-DBU2	SYSTEM CABLE INTERCONNECT	E
	C-IA-7020449-0-DBU	CABLE, FAN	E/M
	K-PL-7020449-0-DBP	CABLE, FAN (PL)	E/M
	D-IA-7020435-0-DBU	CABLE, D.C. POWER DRIVE	E/M
	K-PL-7020435-0-DBP	CABLE, D.C. POWER DRIVE (PL)	E/M
	D-IA-7020450-0-DBU	CABLE, D.C. POWER BACKPLANE	E/M
	K-PL-7020450-0-DBP	CABLE, D.C. POWER BACKPLANE (PL)	E/M
	D-MD-7427751-0-DBU	COVER, LOGIC	M
	K-PL-7427751-0-DBP	COVER, LOGIC (PL)	M
	C-MD-7427574-0-DBU	PLATE, COVER	M
	C-MD-7428683-0-DBU	PLATE, CONNECTOR BLANK	M
	D-MD-7427564-0-DBU	COVER, RX/RD	M
	K-PL-7427564-0-DBP	COVER, RX/RD (PL)	M
3	D-AD-7019979-0-DBU	DOOR, PATCH PANEL	M
	K-PL-7019979-0-DBP	DOOR, PATCH PANEL (PL)	M
	E-IA-7427547-0-DBU	BRKT, PATCH PANEL	M
	K-PL-7427547-0-DBP	BRKT, PATCH PANEL (PL)	M
	C-IA-7427546-0-DBU	BRKT, ADAPTER PATCH PANEL	M
	K-PL-7427546-0-DBP	BRKT, ADAPTER PATCH PANEL (PL)	M
4	D-AD-7019985-0-DBU	CHASSIS ASSY	E/M
	K-PL-7019985-0-DBP	CHASSIS ASSY (PL)	E/M
	E-IA-7427541-0-DBU	CHASSIS	M
	K-PL-7427541-0-DBP	CHASSIS (PL)	M
	E-IA-7427553-0-DBU	PARTITION	M
	K-PL-7427553-0-DBP	PARTITION (PL)	M
	D-IA-7427545-0-DBU	COVER, LOGIC FIXED	M
	K-PL-7427545-0-DBP	COVER, LOGIC FIXED (PL)	M
	C-MD-7427542-0-DBU	PLATE, EJECTOR	M
	E-MD-7427555-0-DBU	GUIDE, CARD	M
	D-IA-7020451-0-DBU	CABLE, FRONT PANEL TO BACKPLANE	E/M
	K-PL-7020451-0-DBP	CABLE, FRONT PANEL TO BACKPLANE (PL)	E/M
	D-IA-7427552-0-DBP	SUPPORT CHASSIS FRONT	M
	K-PL-7427552-0-DBP	SUPPORT CHASSIS FRONT (PL)	M
	D-IA-BC02D-0-0	50 COND SIGNAL (BC02D)	E/M
	K-PL-BC02D-0-DBP	50 COND SIGNAL (BC02D) (PL)	E/M
	A-PS-1212907-0-0	CABLE ASSY, NYLON, 6" LG, CRIMPED	E/M
5	D-IA-7020269-0-DBU	RX/RD SUPPORT ASSY	M
	K-PL-7020269-0-DBP	RX/RD SUPPORT ASSY (PL)	M
	E-IA-7427563-0-DBU	BRACKET, RX/RD SUPPORT	M
	K-PL-7427563-0-DBP	BRACKET, RX/RD SUPPORT (PL)	M
	D-MD-7427554-0-DBU	HALF SLIDE	M
	D-MD-7425653-0-DBU	GUIDE, SLIDE	M
	B-MD-7427544-0-DBU	DOOR ACCESS	M

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

digital

TITLE: MICRO VAX II ASSY

SHEET 3 OF 4 | SIZE B | CODE DD | NUMBER 7022385-0-DBU | REV. A

DRB 108A

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
6	B-IA-7020230-0-DBU	ASSY, SPRING TAB	M
	K-PL-7020230-0-DBU	ASSY, SPRING TAB (PL)	M
	B-MD-7427217-0-DBU	TAB, SPRING	M
	B-MD-7427749-0-DBU	BRACKET, SPRING TAB	M
7	D-AD-7019986-0-DBU	BP/SD ASSY	M
	K-PL-7019986-0-DBU	BP/SD ASSY (PL)	M
	D-MD-7427551-0-DBU	BRACKET, DISTRIBUTION	M
8	B-DD-5415633-0	BA23 SIGNAL DISTRIBUTION PANEL	E/M
9	B-DD-H9278-A	8 SLOT BACKPLANE, H9278-A	E/M
10	A-PS-3021749-0-0	H7864-A POWER SUPPLY (REV 20)	E/M
11	D-AD-7021506-0-DBU	BAFFLE ASSY	M
	K-PL-7021506-0-DBP	BAFFLE ASSY (PL)	M
	D-MD-7429643-0-DBU	BAFFLE	M
12	B-DD-5416744-0-0	FUNCTION SEL/SLU CONSOLE CONN	E/M
13	B-DD-7022007-0-DBU	CONTROL PANEL ASSY	E/M
14	B-DD-5416458-0-0	BA23 FNT PANEL	E/M

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

digital

TITLE: MICRO VAX II ASSY

SHEET 4 OF 4 | SIZE B | CODE DD | NUMBER 7022385-0-DBU | REV. A

DRB 108A

AUTOMATED BY PRTLST.5R(55) — P A R T S L I S T — SHEET A1 OF A1

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION 01
					VARIATION REVISION LEVEL:	A1
1	1	D-AD-7021860-0-DBU	7021860-02		MICRO VAX CHASSIS ASSY	1
2	2	B-DD-7022007-0-DBU	7022007-01		CONTROL PANEL ASSY.	1
3	3	B-DD-5416744-0-0	5416744-01		FUNCTION SEL/SLU CONSOLE CONNECT	1
4	4	A-PS-1700624-0-0	1700624-01	A	CABLE,CONSOLE BACKPLANE	1
5	5	A-PS-1700712-0-0	1700712-02	A	CABLE ASSY,20PIN	1
6	6	A-PS-9009636-0-0	9009636-00	-	CLAMP, CABLE, FOR FLAT CABLE	3
7	7	A-PS-9008264-0-0	9008264-00		MOUNT, CABLE TIE, ADHESIVE BACKE	1
8	8	A-PS-9007031-0-0	9007031-00		TIE,CABLE BUNDL.DIA 0- 3/4"=101	1
9	9	A-PS-9010174-0-0	9010174-00	C	SCREW,SEMS PAN PHIL 6-	4

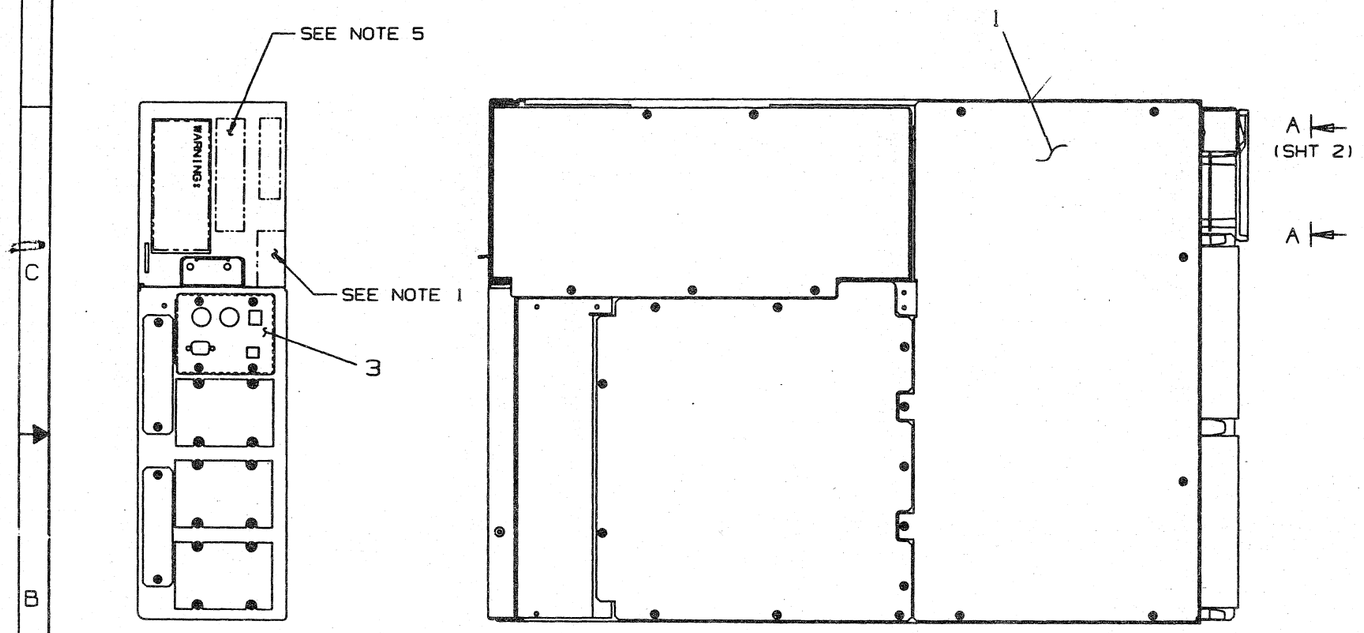
REVISION HISTORY			BASIC PART NO: 7022385			
ENG	ECO NUMBER	REV	SECTION A OF A			
---	INITIAL	A	SECTION.VARIATION INDEX [A]01 [B] [C] [D] [E] [F]	DRN: D. RICHARD	DATE: 28-DEC-84	D I G I T A L
				CHK'D: D. HEALY	DATE: 20-FEB-85	TITLE PARTS LIST MICRO VAX II ASSY
				DES.ENG: J. MCMULLIN	DATE: 20-FEB-85	DOCUMENT NUMBER
				RESP.ENG.: J. MCMULLIN	DATE: 20-FEB-85	SIZE K / CODE PL / NUMBER 7022385-0-DBP / REV A
				MFG.ENG.: K. WORTMAN	DATE: 20-FEB-85	RELEASE DATE: 21-FEB-85
				ASSEMBLY NUMBER: D-UA-7022385-0-DBU	TOP DOCUMENT NUMBER: B-DD-7022385-0-DBU	FILE NAME: ML798A.PLS / EDIT # 16

LEGEND

PART NO.	REV	VARIATION
7022385-01	A1	AS SHOWN

NOTES:

1. THIS AREA FOR MANUFACTURING PROCESS STAMPS.
2. FOR MODULE UTILIZATION NOTES REFER TO SHT 3.
3. MEDALLIAN SHOWN FOR REF ONLY INSTALLED AT OPTION LEVEL.
4. M7606-XX SHOWN FOR REF ONLY IT IS INSTALLED AT OPTION LEVEL.
5. 3717674-XX SERIAL LABEL SHOWN FOR REF ONLY INSTALLED AT OPTION LEVEL.



LAYER #6: FORMAT LAYER (SHT 3)
LAYER #5: WORK LAYER (SHT 3)
LAYER #4: FORMAT LAYER (SHT 2)
LAYER #3: WORK LAYER (SHT 2)
LAYER #2: FORMAT LAYER (SHT 1)
LAYER #1: WORK LAYER (SHT 1)
PLOT SCALE: .50
SYSTEM #: 20
PROGRAM VERSION: UGRAF D4.1
FILE NAME: 7022385-0-DBUA
TITLE: MICRO VAX II ASSY

PLOT AT .50

CAUTION: OFF SHEET PARTS LIST EXISTS
SEE K-PL-7022385-0-DBP
(ML798)

REVISIONS		
REV.	CHANGE NO.	INITIAL
A		

FIRST HIGHER ASS'Y: D-UA-6300Y-0-DBP
QUANTITY & VARIATION

DESCRIPTION | DRAWING NO. | PART NO. | ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)

INCHES TOLERANCES: .X± 0.1; .XX± 0.02; .XXX± 0.005
ANGLES ±30' 30"
APPLICABLE DIMENSION RANGE (UNLESS SPEC)
SURFACE QUALITY (MICROINCHES)
DIMENSION RANGE IN INCHES: OVER 0 TO 0.3; OVER 0.3 TO 1.0; OVER 1.0 TO 4.0; OVER 4.0 TO 12.0; OVER 12.0 TO 40.0; OVER 40.0 TO 80.0
±.XXX: ±.02, ±.05, ±.10
±.004, ±.008, ±.012, ±.016, ±.024, ±.04

THIRD ANGLE PROJECTION

DRN	D. RICHARD	DATE 2 JAN 85
CHK'D	D. HEALY	DATE 20 FEB 85
DES. ENG.	J. McMULLIN	DATE 20 FEB 85
PROJ. ENG.	J. McMULLIN	DATE 20 FEB 85
MFG. ENG.	K. WORTMAN	DATE 20 FEB 85
TOP DOC.	8-DO-7022385-0-DBU	

DO NOT SCALE DRAWING
REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL: SEE PARTS LIST
FINISH: NONE

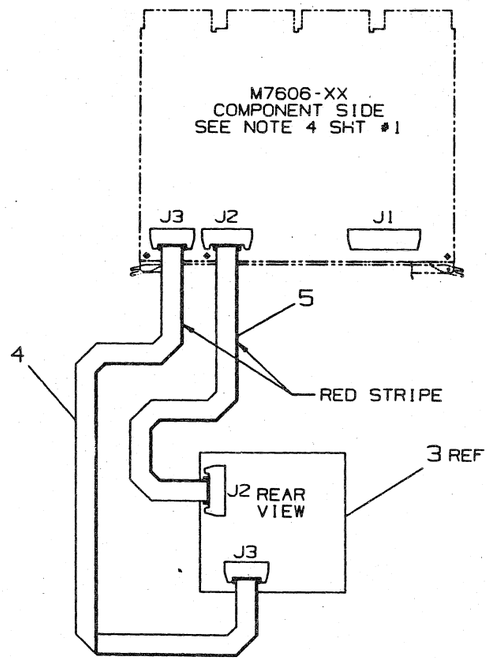
TITLE: MICRO VAX II ASSY

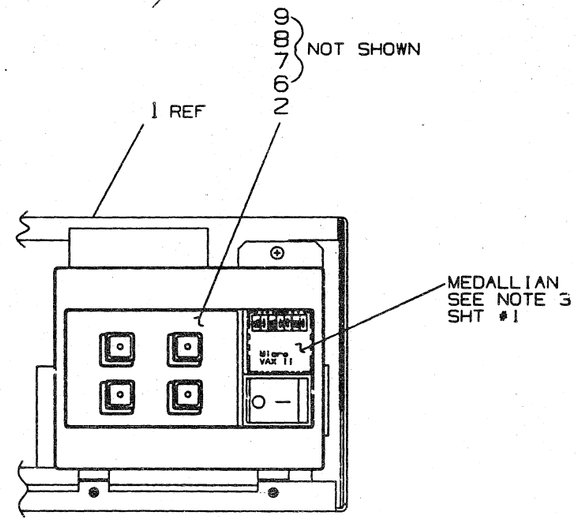
DOCUMENT NUMBER: SIZE D | CODE UA | NUMBER 7022385-0-DBU | REV. A
SCALE 1/2 | SHEET 1 OF 3

DUA 7022385-0-DBU REV A

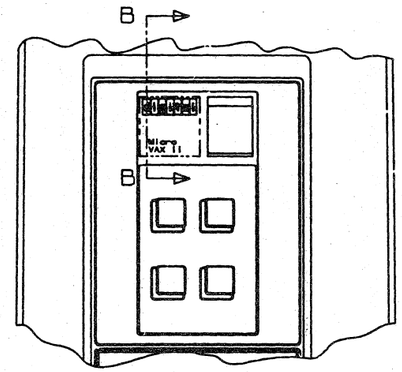
CABLE LEGEND

ITEM NO.	FROM		TO		REMARKS
	CONN	ON	CONN	ON	
5	J2	M7606-XX	J2	ITEM 3	(1700712-02, A 20 PIN CABLE)
4	J3	M7606-XX	J3	ITEM 3	(1700624-01, A 10 PIN CABLE)

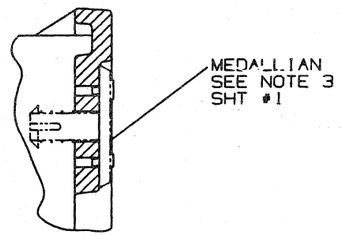




VIEW A-A
SHOWING MEDALLION ORIENTATION
FOR RACK MOUNTED SYSTEMS



VIEW A-A
SHOWING MEDALLION ORIENTATION
PEDESTAL MOUNTED SYSTEMS



SECTION B-B
SCALE 2:1

PLOT AT .50

REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV
MICRO VAX II ASSY	D	UA	7022385-0-DBU	A
SCALE 1/2	SHEET 2 OF 3		DIST	

SEE NOTES 1, 2 AND 3 THIS SHT

	A-B	C-D
1	Q-BUS (1)	CD
2	Q-BUS (2)	CD
3	Q-BUS (3)	CD
4	Q-BUS (4)	Q-BUS (5)
5	Q-BUS (6)	Q-BUS (7)
6	Q-BUS (8)	Q-BUS (9)
7	Q-BUS (10)	Q-BUS (11)
8	Q-BUS (12)	Q-BUS (13)
	XZ1 XZ2 XZ3 XZ4	

SEE NOTE 4 THIS SHT

THE MODULE UTILIZATION FOR THE FIRST SLOT IS AS FOLLOWS:

M7606-AA, BA, CA OR DA

POSSIBLE MODULE UTILIZATIONS FOR SLOTS 2 AND 3 ARE AS FOLLOWS (SEE NOTES 5, 6,7 AND 8 THIS SHT):

M7608-AA OR M7608-BA		
DUAL HEIGHT OPTION	M7607-AA OR EMPTY	
M9047	EMPTY	M7607-AA OR EMPTY
QUAD HEIGHT OPTION		

POSSIBLE MODULE UTILIZATION FOR SLOTS 4-8 ARE AS FOLLOWS (SEE NOTES 7 AND 8 THIS SHT):

QUAD HEIGHT OPTION		
DUAL HEIGHT OPTION	DUAL HEIGHT OPTION	
DUAL HEIGHT OPTION	M9047	EMPTY
M9047	EMPTY	DUAL HEIGHT OPTION

A B C D

NOTES:

1. BACKPLANE VIEWS ARE FROM THE MODULE SIDE
2. THE AB ROWS OF SLOTS 1-8 AND THE CD ROWS OF SLOTS 4-8 ARE EACH LABELED "Q-BUS" BECAUSE THEY ARE INTERCONNECTED PER THE Q-BUS SPECIFICATION. THE NUMBER IN PARENTHESIS SHOWS THE PATH OF INTERRUPT AND DMA GRANT CONTINUITY; INCREASING VALUE DENOTES DECREASING PRIORITY.
3. THE CD ROWS OF SLOTS 1-3 ARE LABELED "CD" BECAUSE THEY ARE CONNECTED PER THE "CD INTERCONNECT" SPECIFICATION. THIS INTERCONNECT CONNECTS SELECTED SIDE TWO PINS OF A GIVEN SLOT TO SIDE ONE PINS OF THE NEXT SLOT.
4. THE BACKPLANE INCLUDES FOUR RESISTOR PACKS IN LOCATIONS XZ1, XZ2, XZ3 AND XZ4. THESE RESISTOR PACKS PROVIDE AN ADDITIONAL 120 OHMS OF TERMINATION TO THE Q22-BUS LINES.
5. THE SYSTEM MAY CONTAIN UP TO TWO MS630 MEMORY MODULES, LOCATED IN SLOTS 2 AND 3 (A SINGLE MS630 MODULE MUST BE LOCATEDIN SLOT 2). A QUAD HEIGHT MS630 (M7608-AA OR M7608-BA) FILLS THE ENTIRE SLOT. A DUAL HEIGHT MS630 (M7607-AA) OCCUPIES THE CD ROWS ONLY.
6. IF SLOTS 2 AND 3 (OR SLOT 3) ARE NOT USED FOR MS630 MEMORY MODULE(S), AND ARE NOT REQUIRED FOR Q-BUS OPTIONS, THEN RESERVE THEM (IT) FOR FUTURE MEMORY MODULE EXPANSION WITH M9047 GRANT CONTINUITY CARD(S).IN ROW A.
7. QUAD HEIGHT Q-BUS OPTIONS MAY BE ADDED TO ANY OPEN SLOTS, AND DUAL HEIGHT Q-BUS OPTIONS MAY BE ADDED TO ANY OPEN "Q-BUS" HALF SLOTS. ALL UNUSED "Q-BUS" HALF SLOTS WHICH PRECEED THE LAST OPTION MUST CONTAIN GRANT CONTINUITY MODULES (M9047) TO PASS GRANTS TO MODULES OF A LOWER PRIORITY. UNUSED "CD" HALF SLOTS ARE LEFT VACANT. (NOTES 2 AND 3 IDENTIFY THE "Q-BUS" AND "CD" HALF SLOTS).
8. FOR MORE INFORMATION ON BACKPLANE SLOT ASSIGNMENTS, REFER TO THE SYSTEM TECHNICAL MANUAL.

PLOT AT .50

REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV
MICRO VAX II ASSY	D	UA	7022385-0-DBU	A
SCALE 1/2	SHEET 3 OF 3		DIST	

AUTOMATED BY PRTLST.5R(55) — P A R T S L I S T — SHEET A1 OF A1

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION 01	02
					VARIATION REVISION LEVEL:	B1	A1
1	1	D-AD-7019985-0-DBU	7019985-00		CHASSIS ASSY.	1	-
2	2		H7864-A		5V 36A,+12V 6A MAX (230W TOTAL),	1	1
3	3	C-IA-7020449-0-DBU	7020449-0D		CABLE, FAN	1	1
4	4	D-IA-7020435-0-DBU	7020435-1K		CABLE, DC POWER DRIVE	1	1
5	5	D-IA-7020450-0-DBU	7020450-01		CABLE, D.C. POWER BACKPLANE	1	1
6	6	D-IA-7427751-0-DBU	7427751-01		COVER,LOGIC	1	1
7	7	K-PL-MSV22-P-DBP	MSV11-PL		*** THIS ITEM IS NOT USED ***	-	-
8	8	D-AD-7021506-0-DBU	7021506-01		BAFFLE ASSY.	1	1
9	9	C-AD-7021150-0-DBU	7021150-01		*** THIS ITEM IS NOT USED ***	-	-
10	10	A-PS-9000049-0-0	9000049-01		SCREW,SEMS PAN PHIL 6-	44	24
11	11	C-MD-7427574-0-DBU	7427574-01		PLATE,COVER	3	-
12	12	D-AD-7019979-0-DBU	7019979-00		DOOR, PATCH PANEL	1	-
13	13	C-MD-7428683-0-DBU	7428683-01		PLATE,CONNECTOR BLANK	2	-
14	14	C-IA-7018448-0-0	7018448-00		*** THIS ITEM IS NOT USED ***	-	-
15	15	A-PS-9009991-0-0	9009991-00		NUT,HEX EXT TOOTH LCKWSHR 6-32	2	-
16	16	A-PS-9006659-0-0	9006659-00		WASHER,FLAT S/PAS	2	-
17	17	K-PL-RX50-M-DBP	RX50 -M		RX50-AA + 17-00285-02 CABLE FOR	REF	REF
18	18	K-PL-RD51-M-DBP	RD51 -M		RD51-A + 17-00282 AND 17-00286 C	REF	REF
19	19	K-PL-RD52-M-DBP	RD52 -M		RD52-A + 17-00282 AND 17-00286 C	REF	REF
20	20	K-PL-RQDS1-M-DBP	RQDX1-M		*** THIS ITEM IS NOT USED ***	-	-
21	21	D-UA-M7135-0-0	M7135-00		*** THIS ITEM IS NOT USED ***	-	-
22	22	D-UA-M7136-0-0	M7136-00		*** THIS ITEM IS NOT USED ***	-	-
23	23	D-UA-M7135-0-0	M7135-YA		*** THIS ITEM IS NOT USED ***	-	-
24	24	D-MD-7427564-0-DBU	7427564-01		COVER,RX/RD	1	1
25	25	D-IA-1700563-0-DBU	1700563-01		*** THIS ITEM IS NOT USED ***	-	-
26	26	D-IA-7011411-0-0	7011411-1C		*** THIS ITEM IS NOT USED ***	-	-
27	27	A-PS-3020444-0-0	3020444-01		*** THIS ITEM IS NOT USED ***	-	-
28	28	D-AD-7019985-0-DBU	7019985-01		CHASSIS	-	1
29	29		9010174-01		SCREW,SEMS PAN PHIL 8-	-	4
30	30		7019986-00		BP/SD ASSY.	-	1

REVISION HISTORY

ENG	ECO NUMBER	REV
---	INITIAL	A
RE	7021860-ML001	B
PH	7021860-ML002	C
RE	7021860-TW003	D
RL	7021860-TW004	E

BASIC PART NO: 7021860

SECTION A OF A

SECTION.VARIATION INDEX

[A]01,02

[B]

[C]

[D]

[E]

[F]

DRN: T. COTE	DATE: 13-JAN-84	D I G I T A L
CHK'D: R. KIZINA	DATE: 27-FEB-84	TITLE PARTS LIST MICRO CHASSIS ASSY
DES.ENG: L. KIZINA	DATE: 27-FEB-84	DOCUMENT NUMBER
RESP.ENG.: P. SCHNORR	DATE: 27-FEB-84	SIZE: K / CODE: PL / NUMBER: 7021860-0-DBP / REV: E
MFG.ENG.: D. FOSSI	DATE: 27-FEB-84	RELEASE DATE: 24-APR-85
ASSEMBLY NUMBER: D-AD-7021860-0-DBU	TOP DOCUMENT NUMBER: D-AD-7021860-0-DBU	FILE NAME: Z8900E.PLS / EDIT #: 3

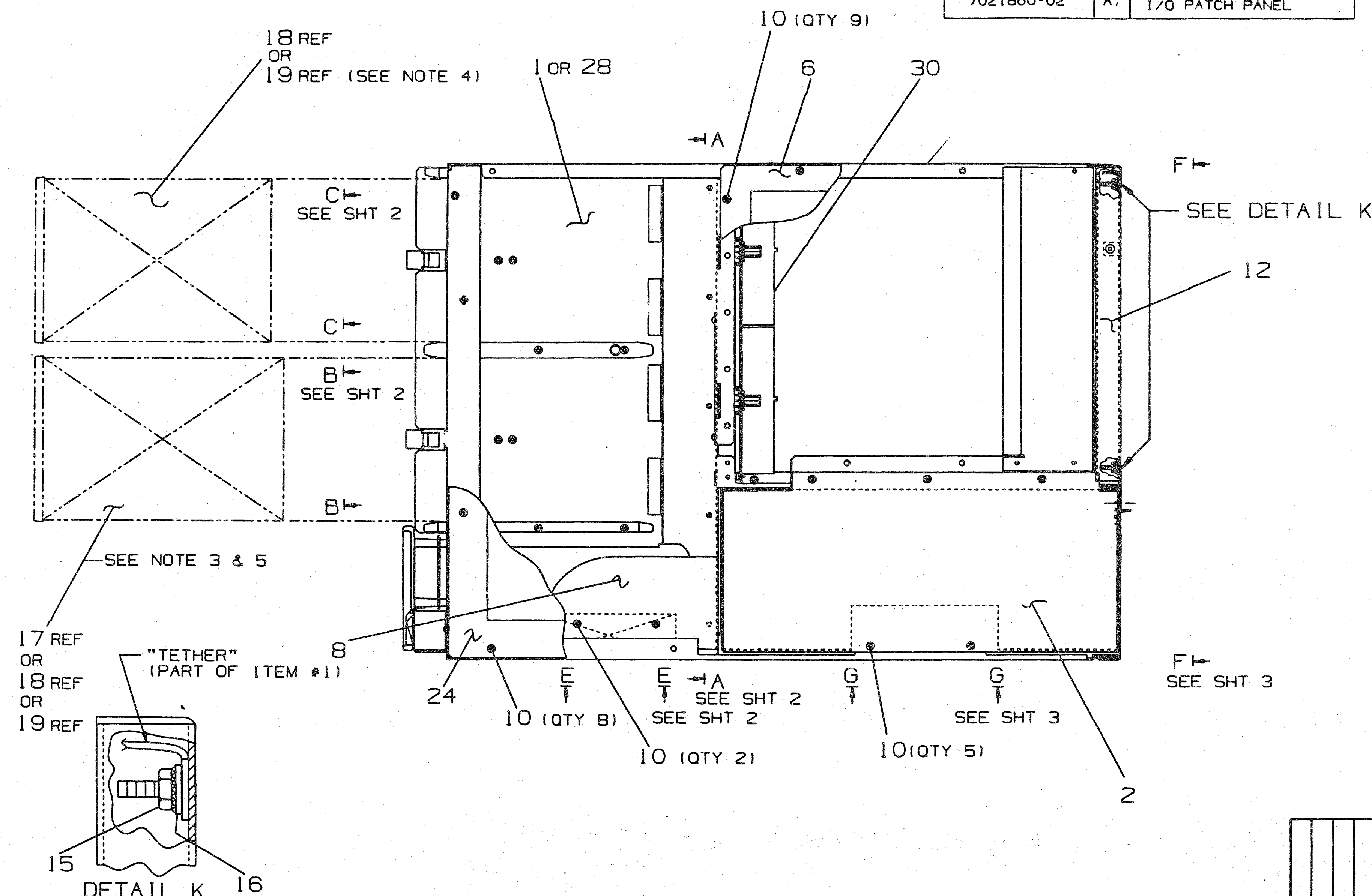
D AD 7021860-0-DBU E

LEGEND

PART NO	REV	VARIATION
7021860-01	B1	AS SHOWN
7021860-02	A1	NO FRONT PANEL OR I/O PATCH PANEL

NOTES:

1. J1 IS LOCATED ON BACKPLANE (H9278-A) NOT TO BE CONFUSED WITH J1 FOR FIXED DISK 1.
2. CABLE FOR FAN IS PART OF H7864 POWER SUPPLY
3. REFER TO VIEW C-C FOR ITEMS 18 OR 19 IN THIS LOCATION.
4. THIS IS FIXED DISK 0.
5. THIS IS FIXED DISK 1 OR RX50.
6. SEE NEXT HIGHER ASSY FOR DETAILS OF THIS PANEL.
7. CABLE FROM RQDX1 TO DIST. PANEL (BC02D-1D).



VARIATION -01 ONLY

LAYER #5: WORK LAYER (SHT 3)
LAYER #4: FORMAT LAYER (SHT 2 & 3)
LAYER #3: WORK LAYER (SHT 2)
LAYER #2: FORMAT LAYER (SHT 1)
LAYER #1: WORK LAYER (SHT 1)
PLOT SCALE: .50
SYSTEM #: 20
PROGRAM VERSION: UGRAF D4.1
FILE NAME: 7021860-0-DBUE

CAUTION: OFF SHEET PARTS LIST EXISTS REFER TO K-PL-7021860-0-DBP (Z8900)

REVISIONS

CHK	CHANGE NO.	REV.
	INITIAL	A
S.AZEVEDO R.EVANS	7021860-ML001 19JUL84	B
R.GUTHRIE PAUL HERBERT	7021860-ML002 8 NOV 84	C
RK K. GAGNON R. EVANS	7021860 TW003 20 FEB 85	D
TM A.HAYNES R.LEWIS	7021860-TW004 5-APR-85	E

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)

INCHES TOLERANCES	ANGLES ±0° 30'	APPLICABLE DIMENSION RANGE (CHECK ONE)	OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
.X: ± .1	SURFACE QUALITY	☐	±.02		±.03	±.05	±.10	
.XX: ± .02		☐	±.004	±.008	±.012	±.018	±.024	±.04
.XXX: ± .005	MICROINCHES	☐						

QUANTITY & VARIATION

FIRST HIGHER ASS'Y B-DO-6100M-0

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL SEE PARTS LIST

FINISH NONE

		DATE
DRN	T. COTE	16 FEB 84
CHK'D	R. KIZINA	27 FEB 84
DES. ENG.	R. KIZINA	27 FEB 84
RESP. ENG.	P. SCHNORR	27 FEB 84
MFG. ENG.	D. FOSSI	27 FEB 84
TOP DOC.	D-AD-7021860-0-DBU	

TITLE digital

MICRO CHASSIS ASSY

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV.
D	AD	7021860-0-DBU	E

SCALE 1/2 SHT 1 OF 3

TW

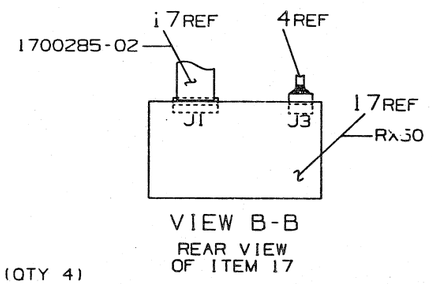
D AD 7021860-0-DBU E

CABLE LEGEND

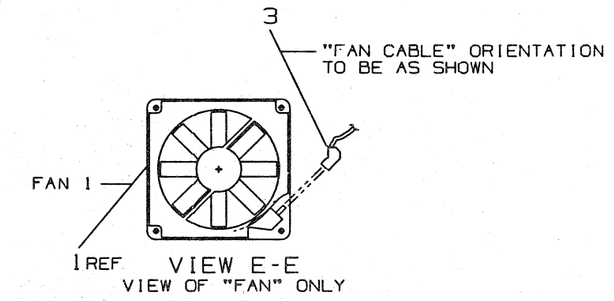
WITH ITEM	FROM CONN	FROM WITH	TO CONN	TO WITH	REMARKS (SEE VIEW A-A)
3	J10	ITEM 27	FAN 1	ITEM 1	SEE VIEW E-E
4	J8	ITEM 27	J3	ITEM 17	
			J3	ITEM 18 OR 19	
5	J9	ITEM 27	J1	ITEM 1	SEE NOTE 1
17	J6	ITEM 1	J1	ITEM 17	REMOVABLE DISK 1 & 2
OR 18 19	J2	ITEM 1	J2	ITEM 18 OR 19	FIXED DISK 0
OR 18 19	J7	ITEM 1	J1	ITEM 18 OR 19	FIXED DISK 0
4	J8	ITEM 27	J3	ITEM 1	WHEN NO DRIVE IN VIEW B-B
4	J8	ITEM 27	J4	ITEM 1	WHEN NO DRIVE IN VIEW C-C

CABLE LEGEND CONT.

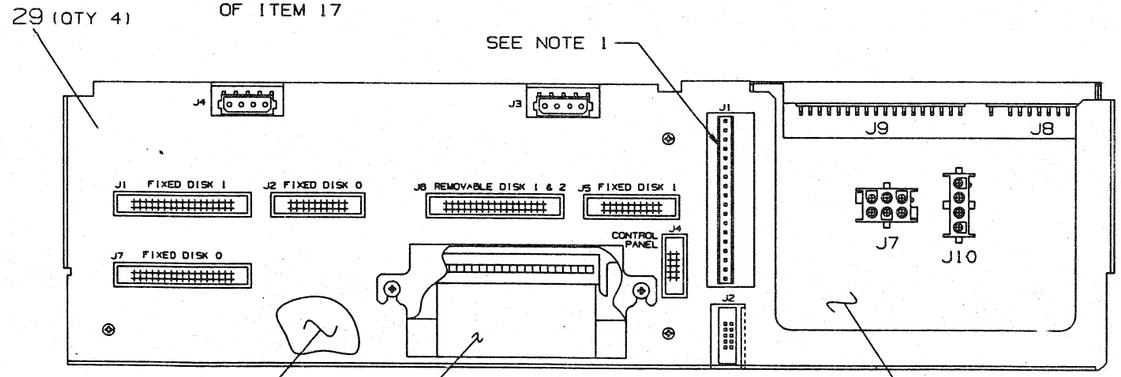
WITH ITEM	FROM CONN	FROM WITH	TO CONN	TO WITH	REMARKS
OR 18 19	J1	ITEM 1	J1	ITEM 18 OR 19	FIXED DISK 1
OR 18 19	J5	ITEM 1	J2	ITEM 18 OR 19	FIXED DISK 1



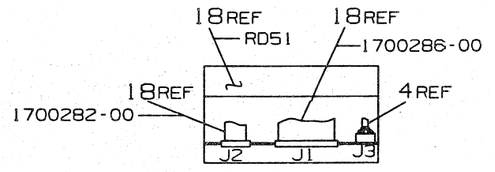
VIEW B-B
REAR VIEW OF ITEM 17



VIEW E-E
VIEW OF "FAN" ONLY



VIEW A-A

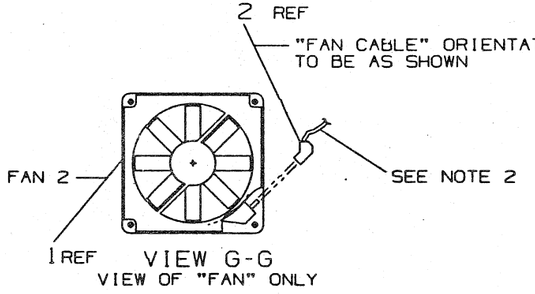


VIEW C-C
REAR VIEW OF ITEM 18 OR 19

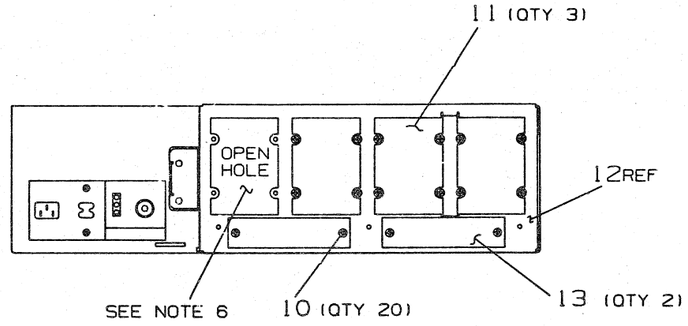
REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV
MICRO CHASSIS ASSY	D	AD	7021860-0-DBU	E
SCALE 1/2 SHEET 2 OF 3	DIST			

TW



VIEW G-G
VIEW OF "FAN" ONLY



VIEW F-F
VARIATION -01 ONLY

REVISIONS		
CHK	CHANGE NO	REV

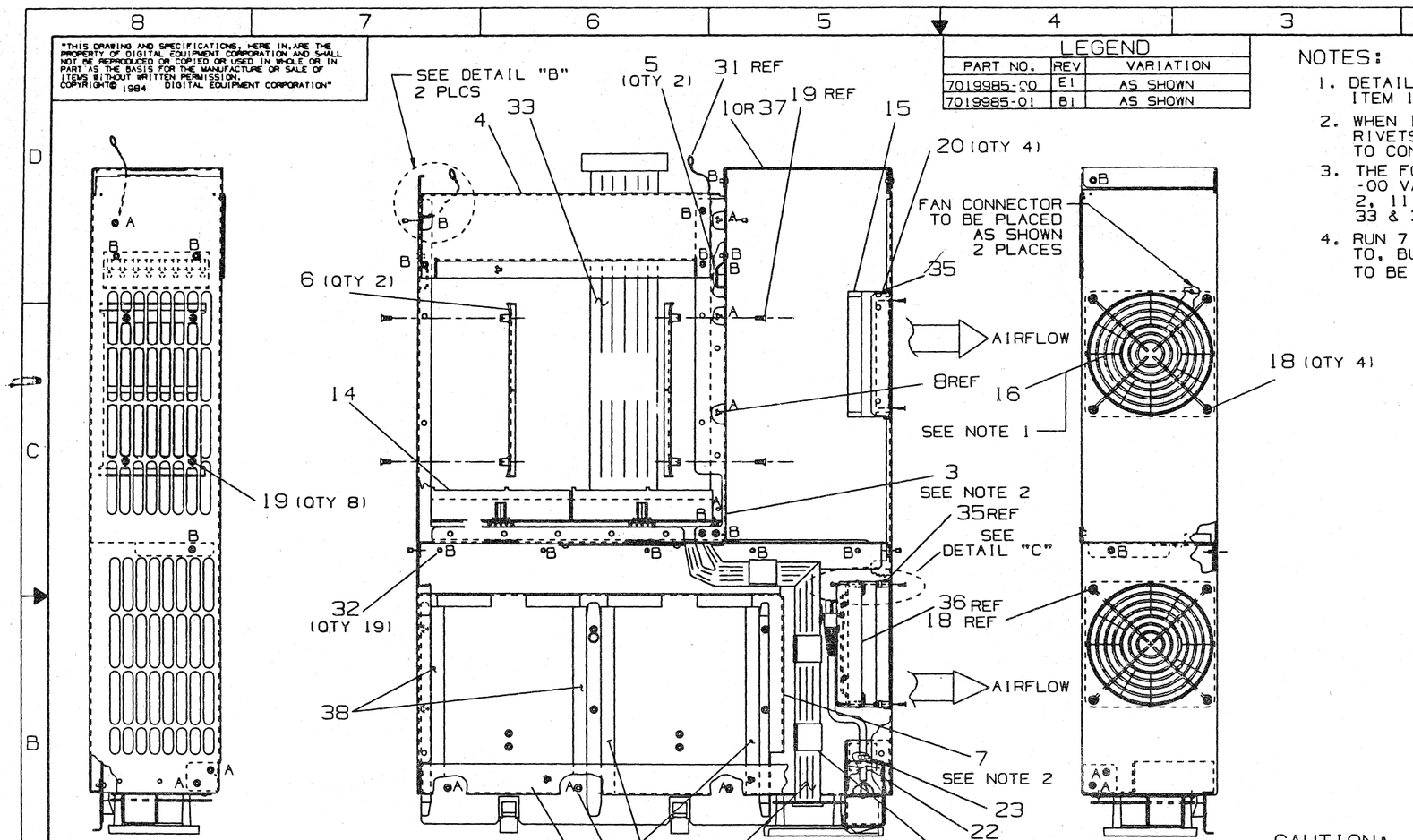
TITLE	SIZE	CODE	NUMBER	REV
MICRO VAX CHASSIS ASSY	D	AD	7021860-0-DBU	E
SCALE 1/2 SHEET 3 OF 3	DIST			

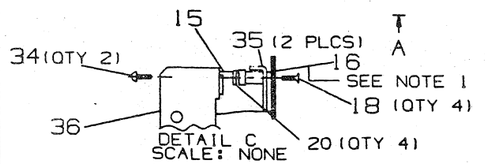
TW 1

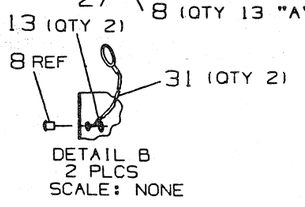
LEGEND		
PART NO.	REV	VARIATION
7019985-00	E1	AS SHOWN
7019985-01	B1	AS SHOWN

NOTES:

1. DETAIL C SHOWS CORRECT INSTALLATION OF ITEM 16 (2 PLACES).
2. WHEN INSTALLING ITEMS 3 & 7 INSTALL RIVETS (ITEM 8) IN "A" HOLES FIRST TO CONTROL PROPER ALIGNMENT.
3. THE FOLLOWING ITEMS ARE USED ON THE -00 VARIATION: 2, 11, 14, 21, 22, 23, 25, 28, 33 & 37
4. RUN 7 INCH STRIP OF TAPE PARALLEL TO, BUT NOT UNDER RAILS. END OFTAPE TO BE FLUSH WITH CUTOUTS.







CAUTION: OFF SHEET PARTS LIST EXISTS. REFER TO K-PL-7019985-0-DBP.

REVISIONS			
CHK	CHANGE NO.	REV.	
	INITIAL	A	
	7019985-ML001	B	
S CORMIER	5 JUL 83		
G MILLER	7019985-ML002A	C	
SM GILCHER	16 NOV 83		
G MILLER	7019985-ML003	D	
S.AXELVOOD	07APR84		
N.CAPUTO	7019985-ML004	E	
R.GUTHRIE	7 NOV 84		
G.MILLER	7019985-ML005	F	
R.GUTHRIE	28 NOV 84		
K.LEWIS			

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)

INCHES TOLERANCES	ANGLES ±0° 30'	SURFACE QUALITY	APPLICABLE DIMENSION RANGE (OVER)	DIMENSION RANGE IN INCHES: 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
.X± ± .1			DECIMAL ONLY	±.02	±.03	±.08	±.10	
.XX± ± .02			FRACTIONAL	±.004	±.008	±.012	±.016	±.024	±.04
.XXX± ± .005		63 MICROINCHES						

QUANTITY & VARIATION

FIRST HIGHER ASSY

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL SEE PARTS LIST

FINISH NONE

DRN	LISA REED	DATE 12/20/82
CHK'D	WALLY COLSON	DATE 4/11/83
DES. ENG.	BOB SYLVESTER	DATE 3/15/83
RESP. ENG.	GERRY MILLER	DATE 3/15/83
MFG. ENG.	MITCH LIVINGSTON	DATE 3/15/83
TOP DOC.	B-DD-11C23-0	

TITLE: CHASSIS ASSY

digital

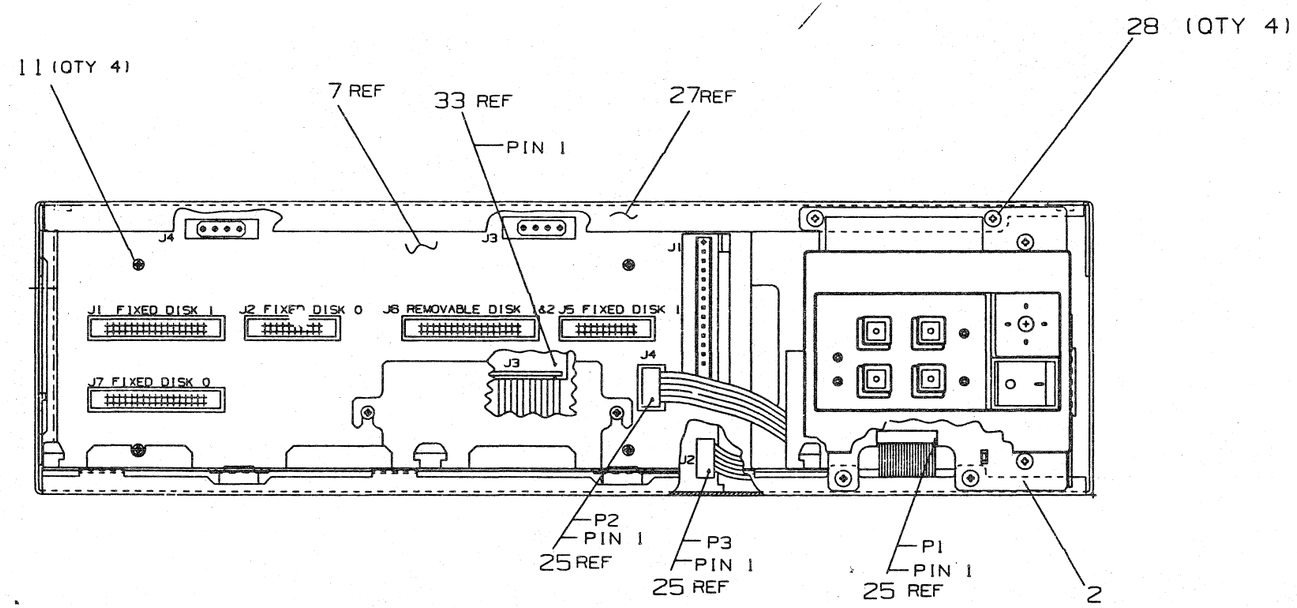
DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV.
D	AD	7019985-0-DBU	F

SCALE 1/2 SHEET 1 OF 2

MATERIAL CODE AD 7019985-0-DBU REV. F

CABLE LEGEND

ITEM NO.	FROM CONN.	FROM WITH	TO CONN.	TO WITH	REMARKS
25	J1-11	ITEM 2	J2	ITEM 14	BACK PLANE
			J4	ITEM 14	DIST. BRD.
33	J3	ITEM 14 DIST. BRD.	——	——	FREE END



VIEW: A-A
SCALE: 1/1

REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV
CHASSIS ASSY	D	AD	7019985-0-DBU	F
SCALE 1/2	SHEET 2 OF 2		DIST	

AUTOMATED BY PRTLST.4Q(47) — P A R T S L I S T —

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION 00	01
					VARIATION REVISION LEVEL:	E1	B1
1	1	E-IA-7427541-0-DBU	7427541-01		CHASSIS	REF	1
2	2	D-AD-7020695-0-DBU	7020695-01		PLATE, CONTROL PANEL ASSY	1	-
3	3	E-IA-7427553-0-DBU	7427553-01		PARTITION	REF	1
4	4	D-IA-7427545-0-DBU	7427545-01		COVER, LOGIC FIXED	REF	1
5	5	C-MD-7427542-0-DBU	7427542-01		PLATE,EJECTOR	REF	2
6	6	E-MD-7427555-0-DBU	7427555-01		GUIDE,CARD	REF	2
7	7	D-IA-7020269-0-DBU	7020269-00		RX/RD SUPPORT ASSY.	REF	1
8	8		9008521-00		RIVET,BLIND FLUSH 0.125DX0.337	REF	13
9	9		9010109-00		*** THIS ITEM IS NOT USED ***	-	-
10	10		9008416-00		*** THIS ITEM IS NOT USED ***	-	-
11	11		9010174-01		SCREW,SEMS PAN PHIL 8-	4	-
12	12		9009626-00		*** THIS ITEM IS NOT USED ***	-	-
13	13		9006659-00		WASHER,FLAT S/PAS	REF	2
14	14	D-AD-7019986-0-DBU	7019986-00		BP/SD ASSY.	1	-
15	15		1217556-01		FAN,TUBE AXIAL 4.5" 105CFM 12V	REF	2
16	16		1210263-01		GUARD,FINGER 4.125 X 4.125 NO OF	REF	2
17	17		9008055-00		*** THIS ITEM IS NOT USED ***	-	-
18	18		9006026-02		SCREW,MACH FLAT PHIL 6-	REF	8
19	19		1221007-01		SCREW,TAP FLAT PHIL THD CT 6-	REF	8
20	20		9009165-00		CLIP, FAN MOUNTING (12-05033 FAN	REF	8
21	21		9009636-00		CLAMP, CABLE, FOR FLAT CABLE	3	-
22	22		9008264-00		MOUNT, CABLE TIE, ADHESIVE BACKE	1	-
23	23		9007031-00		TIE,CABLE BUNDL.DIA 0- 3/4"=101	1	-
24	24		1212907-00		*** THIS ITEM IS NOT USED ***	-	-
25	25		7020451-1C		CABLE, FRONT PANEL TO BACKPLANE	1	-
26	26		BC06L-1C		*** THIS ITEM IS NOT USED ***	-	-
27	27	D-IA-7427552-0-DBU	7427552-01		SUPPORT CHASSIS FRONT	REF	1
28	28		9010174-00		SCREW,SEMS PAN PHIL 6-	4	-
29	29		1210263-00		*** THIS ITEM IS NOT USED ***	-	-
30	30		9000030-28		*** THIS ITEM IS NOT USED ***	-	-

REVISION HISTORY

ENG	ECO NUMBER	REV	SECTION A OF A
---	INITIAL	A	SECTION.VARIATION INDEX
GM	7019985-ML001	B	[A]00,01
GM	7019985-ML002	C	
NC	7019985-ML003	D	[B]
GM	7019985-ML004	E	
RL	7019985-ML005	F	[C]
			[D]
			[E]
			[F]

BASIC PART NO: 7019985

DRN: D. ROBINSON	DATE: 27-SEP-82	D I G I T A L
CHK'D: W. COLSON	DATE: 8-APR-83	TITLE PARTS LIST CHASSIS ASSY
DES.ENG: R. SYLVESTER	DATE: 7-APR-83	DOCUMENT NUMBER: SIZE K, CODE PL, NUMBER 7019985-0-DBP, REV F
RESP.ENG.: G. MILLER	DATE: 7-APR-83	
MFG.ENG.: M. LIVINGSTON	DATE: 7-APR-83	RELEASE DATE: 12-DEC-84
ASSEMBLY NUMBER: D-AD-7019985-0-DBU	TOP DOCUMENT NUMBER: #B-DD-11C23-0	FILE NAME: Z5433F.PLS, EDIT # 12

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION 00	01
					VARIATION REVISION LEVEL:	E1	B1
31	31		1212907-01		CABLE ASSY,NYLON,6"LG,CRIMPED	REF	2
32	32		9009054-00		RIVET,BLIND DOME 0.125DX0.337	REF	19
33	33		BC02D-1D		16" 50-COND SHIELDED SIGNAL 3M C	1	-
34	34		9006025-01		SCREW,MACH PAN PHIL 6-	REF	2
35	35		7429645-01		SPACER,FAN	REF	2
36	36		7429789-01		BRACKET,FAN BAFFLE	REF	1
37	37		7019985-01		CHASSIS	1	-
38	38		1213823-00		TAPE,TEF-FBG ADH .75 WDX .22	A/R	A/R

DIGITAL	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
	CHASSIS ASSY		K	PL	7019985-0-DBP	F

SIZE	CODE	NUMBER	REV.
B	DD	5415633-0-0	A

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS
		5415633-00	BA23 SIGNAL DISTRIBUTION PANEL	A1
E-UA-5415633-0-0	1		BA23 SIGNAL DISTRIBUTION PANEL	A
D-CS-5415633-0-1	1		BA23 SIGNAL DISTRIBUTION PANEL	A
K-PL-5415633-0-DBP	1		BA23 SIGNAL DISTRIBUTION PANEL	A
K-PC-5415633-0-DBI			P.C. DESIGN DATA BASE	C
		5015632-00	ETCHED CIRCUIT BOARD	C1
B-DD-5015632-0-0	1		DRAWING DIRECTORY	A

NOTES:

REVISIONS		
REV.	A	
CHG NO.	INIT	
DATE	12/82	

digital

USED ON OPTION/MODEL			
		DRN. PEG LENNON	13DEC82
		CHK'D DICK BARRIERE	16DEC82
		ENG. AL DELUCA	16DEC82
		PROD M. LIVINGSTON	16DEC82

TITLE: BA23 SIGNAL DISTRIBUTION PANEL

SIZE	CODE	NUMBER	REV.
B	DD	5415633-0-0	A

SHEET 1 OF 1

DRB 126

ML1

AUTOMATED BY PRTLST.4Q(50)

P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-MD-5015632-0-0	5015632-00	CIRCUIT DRILL AND ETCH	1	
2	2		1214886-00	PCB,HEADER 20POS(2X10).100CC	2	J2,J5
3	3		1214886-03	PCB,HEADER 10POS(2XØ5).100CC	1	J4
4	4		1214886-02	PCB,HEADER 34POS (2X17).100CC	3	J1,J6,J7
5	5		1216832-03	PCB,HEADER 50POS(2X25).100CC 90D	1	J3

REVISION HISTORY

ENG	ECO NUMBER	REV
---	INITIAL	A

BASIC PART NO: 5415633

SECTION A OF A

SECTION.VARIATION INDEX
[A] 00
[B]
[C]
[D]
[E]
[F]
[H]
[J]
[K]
[L]
[M]
[N]

DRN:	BOB BARILONE	DATE: 15-OCT-82
CHK'D:	DICK BARRIERE	DATE: 15-OCT-82
DES.ENG:	DICK MILLER	DATE: 15-OCT-82
RESP.ENG.:	A. DELUCA	DATE: 15-OCT-82
MFG.ENG.:	M. LIVINGSTON	DATE: 15-OCT-82

ASSEMBLY NUMBER: E-UA-5415633-0-0

TOP DOCUMENT NUMBER: B-DD-5415633-0-0

D I G I T A L

TITLE: PARTS LIST

BA23 SIGNAL DIST. PANEL

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV
K	PL	5415633-0-DBP	A

FILE NAME: Z4897A.PLS

EDIT # 5

J1 Fixed Disk 1
J2 Fixed Disk 0
J3 RQDX3
J4 Front Panel
J5 Fixed Disk 1
J6 Removable Disk 182
J7 Fixed Disk 0

SIZE D | CODE CS | NUMBER 5415633-Ø-1 | REV A

J3 — J6 — J1 — J7

J3	J6	J1	J7	
1	34	22	22	READY (L)
2	33	21	21	
3	32	14	14	HEAD SEL Ø (L) (Side 1 (H))
4	31	13	13	
5	30	15	15	
6	29			READ DATA (L)
7	3	3	3	
8	4	4	4	UNUSED (UNUSED)
9	26	10	10	HEAD SEL 2 (L)
10	25	9	9	TRACKØØ (L)
11	24	6	6	
12	23	5	5	WRT GATE (L)
13	22	8	8	
14	21	7	7	SEEK CPLT (L)
15	20	24	24	
16	19	23	23	STEP (L)
17	18	34	34	
18	17	33	33	DIRECTION (L)
19	16	11	11	
20	15	12	12	WRT FAULT (L)
21	14	30	30	
22	13	29	29	DRV SEL3 (L)
23	12	28	28	
24	11	27	27	DRV SEL2 (L)
25	10	26	26	
26	9	25	25	DRV SEL1 (L)
27	8	20	20	
28	7	19	19	INDEX (L)
29	6	32	32	
30	5	31	31	DRV SEL4 (L)
31	2	2	2	
32	1	1	1	REDUC WRTI (L) (High/Norm Density (H))
33	28	18	18	
34	27	17	17	HEAD SEL 1 (L)

J2 — J5

J2	J5	
3	3	RESERVED
4	4	
5	5	SPARE
6	6	
8	8	
9	9	SPARE
10	10	SPARE
11	11	
12	12	
15	15	
16	16	
19	19	
20	20	
7	7	

J3 — J2

J3	J2	
37	1	DRV SLØ ACK (L)
2		
36	17	MFM RD DATØ (H)
35	18	MFM RD DATØ (L)
34	13	MFM WRT DTØ (H)
33	14	MFM WRT DTØ (L)

J5

J5	
1	DRV SL1 ACK (L)
2	
18	MFM RD DAT1 (L)
17	MFM RD DAT1 (H)
14	MFM WRT DT1 (L)
13	MFM WRT DT1 (H)

J4

J4	
8	RX3 WPT LED (L)
7	RX2 WPT LED (L)
6	RD1 WRT PRO (L)
2	RDØ WRT PRO (L)
4	RX1 WPT LED (L)
1	RDØ RDY (H)
3	RXØ WPT LED (L)
5	RD1 RDY (H)

REVISION HISTORY | REV. | ECO NUMBER | DATE

DRD 102E

DRWN J. Vincent	DATE 20 DEC. 82	TITLE digital	A
CHK'D	DATE 1-12-83	SIGNAL DISTRIBUTION BOARD	
DES ENG.	DATE 2/10/83		
RESP ENG.	DATE 2/15/83	DOCUMENT NUMBER	
MFG ENG. (A.D)	DATE 2/15/83	SIZE D CODE CS NUMBER 5415633-Ø-1 REV A	
NEXT HIGHER DOC		SCALE — SHEET 1 OF 1	

ML02

SIZE	CODE	NUMBER	REV.
B	DD	H9278-A	B

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS
		H9278-A-0	8 SLOT BACKPLANE	A A
E-UA-H9278-A-0	1		8 SLOT BACKPLANE	A A
E-CS-H9278-A-1	1		8 SLOT BACKPLANE	A A
K-PL-H9278-A-DBP	1		8 SLOT BACKPLANE	A A
K-PC-H9278-A-DBJ			P.C. DESIGN DATA BASE	C C
		5015964	ETCH CIRCUIT BOARD	C C
D-MD-5015964-0-0	2		CIRCUIT DRILL & ETCH BOARD	A A
D-EC-5015964-0-0	2		ETCH CUT DRAWING	A A
K-SP-H9278-A-DBF	14		ENGINEERING SPEC	A

NOTES:

REVISIONS	REV.	CHG NO.	DATE
	B	H9278-A-M001	15-JUN-83

digital

USED ON OPTION/MODEL

DRN.	R. RHOADES	11JAN83
CHK'D		1-12-83
ENG		3/29/83
PROD.	M. LIVINGSTON (GLK)	4/29/83

TITLE: 8 SLOT BACKPLANE

SIZE	CODE	NUMBER	REV.
B	DD	H9278-A	B

SHEET 1 OF 1

DRB 128

AUTOMATED BY PRTLST.4Q(50)

P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION A	REFERENCE DESIGNATOR
1	1	D-MD-5015964-0-0	5015964-00	CIRCUIT DRILL & ETCH	1	
2	2		1211342-04	MATE-N-LOK 04PIN(1X04).200CC HDR	2	J3,J4
3	3		1214886-03	PCB,HEADER 10POS(2X05).100CC	1	J2
4	4		1215699-07	PCB,HEADER 18POS(1X18).156CC STR	1	J1
5	5		1217535-05	SKT,IC 13PIN SIP TIN SOLD	4	XZ1-XZ4
6	6		1318110-00	R NETWORK 11-330 11-680 13PIN	4	Z1-Z4
7	7		7417041-00	288 PIN CONNECTOR	4	J5-J8
8	8		9000033-12	SPACER,THREADED HEX ALUM 8-3	4	
9	9		9006120-06	SCREW, FILL POZI 8-	8	
10	10		9006035-01	SCREW,MACH PAN PHIL 8-	4	
11	11		9009246-00	SPACER,THREADED HEX ALUM 8-3	4	
12	12		7411881-01	DECAL	1	

REVISION HISTORY

ENG	ECO NUMBER	REV
---	INITIAL	A

BASIC PART NO: H9278

SECTION A OF A

SECTION.VARIATION INDEX
[A] A
[B]
[C]
[D]
[E]
[F]
[H]
[J]
[K]
[L]
[M]
[N]

DRN:	RITA BUREAU	DATE: 16-NOV-82
CHK'D:	RON RHOADES	DATE: 25-JAN-83
DES.ENG:	TOM PITMAN	DATE: 25-JAN-83
RESP.ENG.:	AL DELUCA	DATE: 25-JAN-83
MFG.ENG.:	M. LIVINGSTON	DATE: 25-JAN-83

ASSEMBLY NUMBER: D-UA-H9278-A-0

TOP DOCUMENT NUMBER: B-DD-H9278-A-0

D I G I T A L

TITLE PARTS LIST

8 SLOT BACKPLANE, H9278-A

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV
K	PL	H9278-A-DBP	A

FILE NAME: Z5865A.PLS

EDIT # 11

NOTES: 1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. ALL DIMENSIONS TO BE CHECKED ON SITE BEFORE ANY WORK OR SHOP DRAWINGS ARE PREPARED.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
4. ALL WORK TO BE IN ACCORDANCE WITH THE RELEVANT CODES OF PRACTICE AND REGULATIONS.
5. ALL DIMENSIONS ARE TO BE CHECKED ON SITE BEFORE ANY WORK OR SHOP DRAWINGS ARE PREPARED.
6. ALL DIMENSIONS ARE TO BE CHECKED ON SITE BEFORE ANY WORK OR SHOP DRAWINGS ARE PREPARED.
7. ALL DIMENSIONS ARE TO BE CHECKED ON SITE BEFORE ANY WORK OR SHOP DRAWINGS ARE PREPARED.
8. ALL DIMENSIONS ARE TO BE CHECKED ON SITE BEFORE ANY WORK OR SHOP DRAWINGS ARE PREPARED.
9. ALL DIMENSIONS ARE TO BE CHECKED ON SITE BEFORE ANY WORK OR SHOP DRAWINGS ARE PREPARED.
10. ALL DIMENSIONS ARE TO BE CHECKED ON SITE BEFORE ANY WORK OR SHOP DRAWINGS ARE PREPARED.
11. ALL DIMENSIONS ARE TO BE CHECKED ON SITE BEFORE ANY WORK OR SHOP DRAWINGS ARE PREPARED.
12. ALL DIMENSIONS ARE TO BE CHECKED ON SITE BEFORE ANY WORK OR SHOP DRAWINGS ARE PREPARED.

CHK	CHANGE NO	REV

STEP 1 = 7 RISERS STEP THIS
REPEAT 4 = 4 RISERS STEP THIS

46 REF

J8 J7 J6 J5

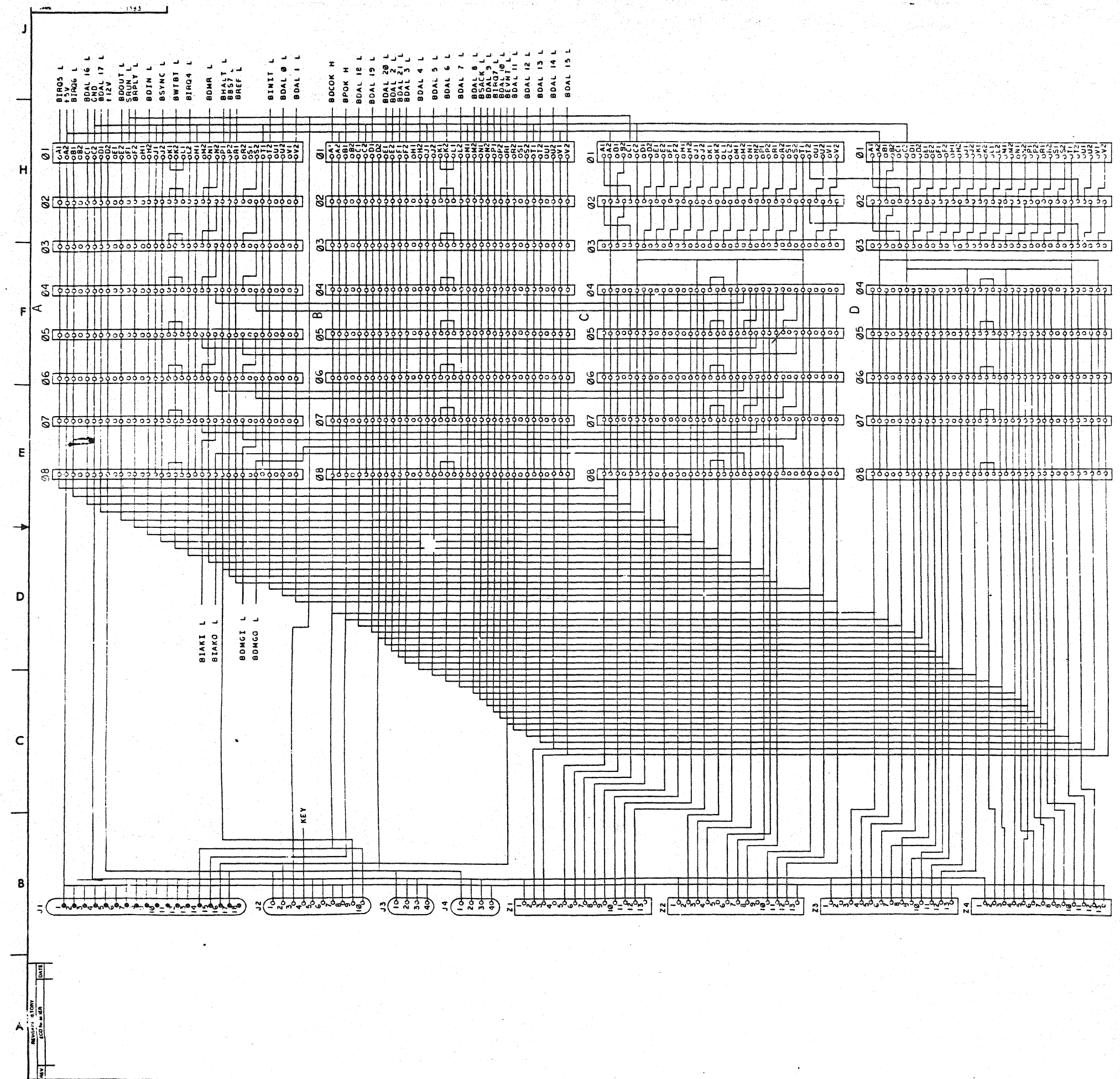
KZ1/L3 KZ2/L2 KZ1/L1

10.7 REF.

A A

SECTION A - A
(TYP 2 PLACES)

6 QTY 4
5 QTY 4
11 QTY 4
10 QTY 4
8 QTY 4
9 REF
11 REF
9 QTY 8
12 FABRIC
1
2
3
4
5
6
7
8
9
10
11
12



DESCRIPTION	DRAWING NO	PART NO	ITEM NO
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)			

INCHES TOLERANCES	ANGLES ±0°30'	APPLICABLE DIMENSION RANGE	DIMENSION RANGE IN INCHES					
			OVER 0 TO 12	OVER 12 TO 40	OVER 40 TO 120	OVER 120 TO 400	OVER 400 TO 800	OVER 800 TO 1600
X ± .1	SURFACE QUALITY	(CHECK ONE)		± .02	± .03	± .06	± .12	
XX ± .02	✓							
XXX ± .005	MICROINCHES		± .004	± .008	± .012	± .015	± .024	± .06

QUANTITY & VARIATION: 1000

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL

FINISH

	NAME	DATE
DRW	Ron Zinsser	3/29/83
CHK	[illegible]	3/29/83
DES ENG	[illegible]	[illegible]
PROP ENG	[illegible]	[illegible]
MFG ENG	M. Livingston	3/29/83

TOP DOC. NO. 8-00-H9279-A-0

TITLE: H9278-A 8 SLOT BACKPLANE

DOCUMENT NUMBER: SIZE E | CODE CS | NUMBER H9278-A-1 | REV A

SCALE 1=1

SIZE CODE CS H9278-A-1 REV A

REVISION HISTORY

REV	DESCRIPTION	DATE
	ECO No. M 685	

SIZE	CODE	NUMBER	REV
B	DD	M7606-0-0	C

DRAWING NO.	NO OF SHTS	PART NO.	DESCRIPTION	REVISIONS																	
		M7606	KA630	B1	C1	D1															
D-UA-M7606-0-0	1		KA630 UNIT ASSEMBLY	A	A	B															
K-PL-M7606-0-DBP	2		KA630 PARTS LIST	A	A	C															
K-PC-M7606-0-DBJ	1		P.C. DESIGN DATA BASE	E	E	E															
		5016523-01	ETCHED CIRCUIT BOARD	E1	E1	E1															
B-DD-5016523-0-0	1		DRAWING DIRECTORY	A	A	A															
B-CS-M7606-0-1	1		M7606 DRAWING DIRECTORY	-	B	B															
B-CS-M7606-0-2	1		MICROVAX II SYSTEM	-	B	B															
B-CS-M7606-0-3	1		KA630-UVAX ON Q22 BUS	-	B	B															
B-CS-M7606-0-4	1		UVAX & FPU	-	B	B															
B-CS-M7606-0-5	1		UVAX & FPU PINOUTS	-	-	-															
B-CS-M7606-0-6	1		ADDRESS LATCH/LOCAL MEMORY DECODE	-	B	B															
B-CS-M7606-0-7	1		MEMORY SUBSYSTEM	-	B	B															
B-CS-M7606-0-8	1		Q22 BUS INTERFACE GATE ARRAY	-	B	B															
B-CS-M7606-0-9	1		Q22 BUS INTERFACE GATE ARRAY	-	B	B															
B-CS-M7606-0-10	1		DC380 PAD ASSIGNMENT TOP VIEW LL5320 IN 144 PIN GRID ARRAY	-	B	B															
B-CS-M7506-0-11	1		REFRESH LOGIC/COUNTER	-	B	B															
B-CS-M7606-0-12	1		DIVIDE BY 12	-	B	B															
B-CS-M7606-0-13	1		SYNCHRONOUS 3 BIT COUNTER	-	B	B															

NOTES:

REVISION HISTORY																					
REV	A	B	C																		
ECO NO.	INIT	ML001	ML002																		
DATE	5/84	5/85	6/85																		

digital

DRN. D.DROZD	DATE 5/17/84	TITLE KA630	
CHK'D E.LANDRY	DATE 5/17/84	DOCUMENT NUMBER	
DES. ENG B.MASKAS	DATE 5/17/84	SIZE B / CODE DD / NUMBER M7606-0-0	REV C
RESP ENG B.MASKAS	DATE 5/17/84		
MFG. ENG B.SCHULTE	DATE 9/24/84	SHEET 1 OF 4	

SIZE	CODE	NUMBER	REV
B	DD	M7606-0-0	C

DRAWING NO.	NO OF SHTS	PART NO.	DESCRIPTION	REVISIONS																		
B-CS-M7606-0-14	1		VECTOR HACK	-	B	B																
B-CS-M7606-0-15	1		INVERTING MUX LOGIC	-	B	B																
B-CS-M7606-0-16	1		4 to 1 MUX	-	B	B																
B-CS-M7606-0-17	1		Q-BUS SUPPORT LOGIC	-	B	B																
B-CS-M7606-0-18	1		BLK MD CTR LOGIC	-	B	B																
B-CS-M7606-0-19	1		TOGGLE FLOP	-	B	B																
B-CS-M7606-0-20	1		Q-BUS SUPPORT LOGIC	-	B	B																
B-CS-M7606-0-21	1		Q-BUS SUPPORT LOGIC	-	B	B																
B-CS-M7606-0-22	1		Q-BUS SUPPORT LOGIC	-	B	B																
B-CS-M7606-0-23	1		Q-BUS SUPPORT LOGIC	-	B	B																
B-CS-M7606-0-24	1		POWER BUFFER MACRO	-	B	B																
B-CS-M7606-0-25	1		BIDIRECT BUFFER	-	B	B																
B-CS-M7606-0-26	1		MUX LOGIC	-	B	B																
B-CS-M7606-0-27	1		TRANSLATION MAP GROUP	-	B	B																
B-CS-M7606-0-28	1		KA630 Q-BUS INTERFACE	-	B	B																
B-CS-M7606-0-29	1		UVAX INTERFACE GATE ARRAY	-	B	B																
B-CS-M7606-0-30	1		DC379 PAD ASSIGNMENT TOP VIEW LL5320 IN 144 PIN GRID ARRAY	-	B	B																
B-CS-M7606-0-31	1		UVAX INTERFACE GATE ARRAY DATA PATH		B	B																
B-CS-M7606-0-32	1		UVDAL I/O BUFFERS, ADDR LATCHES	-	B	B																

NOTES:

REVISION HISTORY																						
REV.	A	B	C																			
ECO NO.	INIT	ML001	ML002																			
DATE	5/84	5/85	6/85																			

digital

DRN. D.DROZD	DATE 5/17/84	TITLE KA630
CHK'D E.LANDRY	DATE 5/17/84	DOCUMENT NUMBER
DES. ENG. B.MASKAS	DATE 5/17/84	SIZE B / CODE DD / NUMBER M7606-0-0 / REV C
RESP. ENG B.MASKAS	DATE 5/17/84	SHEET 2 OF 4
MFG. ENG B.SCHULTE	DATE 9/24/84	

SIZE	CODE	NUMBER	REV
B	DD	M7606-0-0	C

DRAWING NO.	NO OF SHTS	PART NO.	DESCRIPTION	REVISIONS
B-CS-M7606-0-33	1		ADDRESS DECODER	- B B
B-CS-M7606-0-34	1		EXCEPTIONS AND INTERRUPTS	- B B
B-CS-M7606-0-35	1		UVAX INPUTS AND I/O PINS	- B B
B-CS-M7606-0-36	1		BOOT/DIAG REG., MEM ERR ADDR REG.	- B B
B-CS-M7606-0-37	1		EPR BUS, X DAL BUS	- B B
B-CS-M7606-0-38	1		INTERNAL DATA BUSES	- B B
B-CS-M7606-0-39	1		MISC. CONTROL STROBES	- B B
B-CS-M7606-0-40	1		RESET COUNTER, POWER UP/DOWN CNTRL	- B B
B-CS-M7606-0-41	1		MEMOR SYSTEM ERROR REGISTER	- B B
B-CS-M7606-0-42	1		TIME OF YEAR (TOY) CLOCK	- B B
B-CS-M7606-0-43	1		CONSOLE SERIAL LINE INTERFACE	- B B
B-CS-M7606-0-44	1		LEDS AND CONFIGURATION CONNECTOR	- B B
B-CS-M7606-0-45	1		DECOUPLING CAPACITORS	- B B
B-CS-M7606-0-46	1		KA630 STATE MACHINES	- B B
B-CS-M7606-0-47	1		UVAX CYCLE CONTROLLER	- B B
B-CS-M7606-0-48	1		MEMORY SEQUENCER	- B B
B-CS-M7606-0-49	1		MEMORY SEQUENCER SUPPORT	- B B
B-CS-M7606-0-50	1		Q22 BUS STATE MACHINES	- B B
B-CS-M7606-0-51	1		KA630 MEMORY ARBITER LISTING	- -

NOTES:

REVISION HISTORY				
REV.	A	B	C	
ECO NO.	INIT	ML001	ML002	
DATE	5/84	5/85	6/85	

digital

DRN. D.DROZD	DATE 5/17/84	TITLE KA630	
CHK'D E.LANDRY	DATE 5/17/84	DOCUMENT NUMBER	
DES. ENG. B.MASKAS	DATE 5/17/84	SIZE B / CODE DD / NUMBER M7606-0-0	REV C
RESP. ENG. B.MASKAS	DATE 5/17/84		
MFG. ENG. B.SCHULTE	DATE 9/24/84	SHEET 3 OF 4	

SIZE	CODE	NUMBER	REV
B	DD	M7606-0-0	C

DRAWING NO.	NO OF SHTS	PART NO.	DESCRIPTION	REVISIONS																			
B-CS-M7606-0-52	1		KA630 MEMORY SYSTEM ARBITER STATE FLOW DIAGRAMS	-	B	B																	
B-CS-M7606-0-53	1		KA630 MEMORY SYSTEM ARBITER STATE FLOW DIAGRAMS	-	B	B																	
B-CS-M7606-0-54	1		KA630 LOCAL I/O CONTROL MACHINE	-	/																		
			UL TESTING	-	-	-																	
B-CS-M7606-0-55	1		KA630 LOCAL I/O BUS CONTROL	-	B	B																	
B-CS-M7606-0-56	1		KA630 Q-BUS ARBITRATION CONTROL MACHINE LISTING	-	-	-																	
B-CS-M7606-0-57	1		Q-BUS ARBITRATION CONTROLLER DETAILED CONTROL FLOW DIAGRAM	-	B	B																	
B-CS-M7606-0-58	1		Q22 BUS MASTER CONTROL MACHINE LISTING	-	-																		
B-CS-M7606-0-59	1		Q22 BUS MASTER CONTROL MACHINE FLOW DIAGRAM	-	B	B																	
B-CS-M7606-0-60	1		Q22 BUS SLAVE CONTROL MACHINE LISTING	-	-	-																	
B-CS-M7606-0-61	1		Q22 BUS SLAVE CONTROL MACHINE FLOW DIAGRAM	-	B	B																	
B-CS-M7606-0-62	1		Q22 BUS SLAVE CONTROL MACHINE FLOW DIAGRAM	-	B	B																	
B-CS-M7606-0-63	1		IKXL RAS DECODE FROM (ETS) LISTING	-	-	-																	
B-CS-M7606-0-64	1		PALASM LISTING FOR PALISLSA DEVICES	-	-	-																	
B-CS-M7606-0-65	1		MNEMONIC DICTORY	-	-	-																	
	-																						
K-DO-M7606-0-0	24		M7606 CROSS REF LIST	-	A	A																	

NOTES:

REVISION HISTORY																							
REV.	A	B	C																				
ECO NO.	INIT	ML001	ML002																				
DATE	5/84	5/85	6/85																				

digital

DRN. D.DROZD	DATE 5/17/84	TITLE KA630	
CHK'D E.LANDRY	DATE 5/17/84		
DES. ENG B.MASKAS	DATE 5/17/84	DOCUMENT NUMBER	
RESP ENG B.MASKAS	DATE 5/17/84	SIZE B / CODE DD / NUMBER M7606-0-0	REV C
MFG. ENG B.SCHULTE	DATE 9/24/84	SHEET 4 OF 4	

REWORK INSTRUCTIONS

1. COMPONENT DELETES.

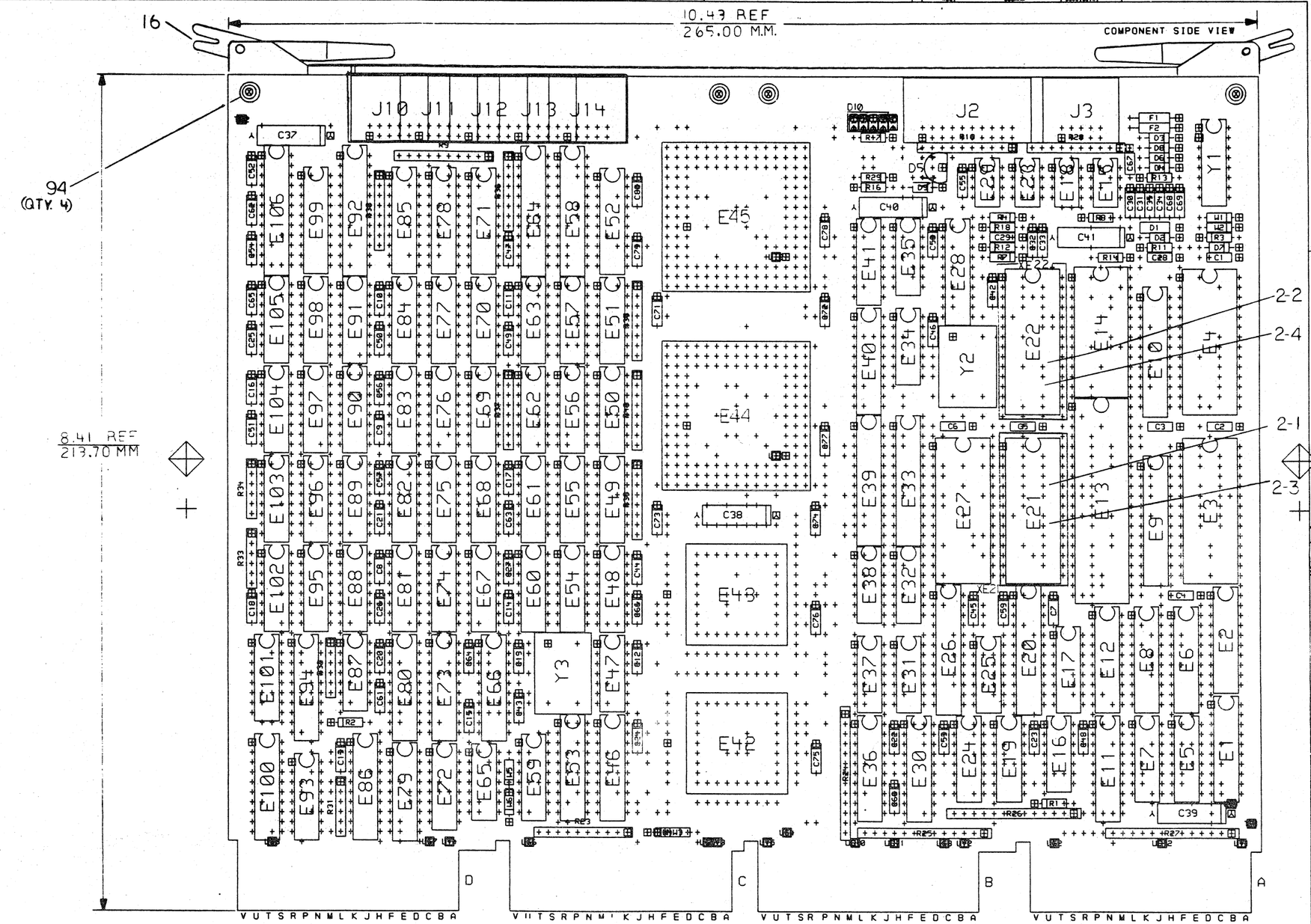
2-1 DELETE E21 P/N 23035E6-00

2-2 DELETE E22 P/N 23034E6-00

2. COMPONENT ADDS.

2-3 DELETE E21 P/N 23063E6-00

2-4 DELETE E22 P/N 23062E6-00



NOTES: 1. W1 NOT INSTALLED

STEP ℄	↑ Y AXIS ____	STEP ___	TIMES
REPEAT	→ X AXIS ____	STEP ___	TIMES

CHK	CHANGE NO	REV

ETCH REV. E1

SIGNATURES	DATE
DRN.	
CHK'D.	
MECH.ENG.	
PROJ.ENG.	
PROD.	
SCALE 2:1	
SHT. 1 OF 1	
NEXT HIGHER ASSY. B-DD-M7606-0-0	

digital

TITLE KA630-A,B,C,D

SIZE	CODE	NUMBER	REV
D	UA	M7606-0-0	3

1 MS# 275262

AUTOMATED BY PRTLST.5R(55) — P A R T S L I S T — SHEET A1 OF A3

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION AA D1	AC D1	AH D1	BA D1	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:					
1	1	D-MD-5016523-0-0	5016523-01		CIRCUIT DRILL & ETCH	1	1	1	1	
2	2		1010279-01		.47 MFD 25V 20% CER	6	6	6	6	C30-C35
3	3		1012784-00		.047 MFD 50V +80-20% CER	7	7	7	7	C28,C1-C6
4	4		1013466-05		56.0 MMF 50V 5% CER	1	1	1	1	C67
5	5		1013466-07		220.0 MMF 50V 5% CER	1	1	1	1	C29
6	6		1014265-02		.33 MFD 50V +80-20% CER	58	58	58	58	C7-C27,C42-C66,C68,C69,C71-C80
7	7		1017472-00		10 MFD 35V +75-10% AL EL	3	3	3	3	C39-C41
8	8		1020446-05		22 MFD 16V +50-10% AL EL	2	2	2	2	C37,C38
9	9		1100114-00		PIV= 25 IO=135 MA	1	1	1	1	D9
10	10		1105275-00		PIV= 60 IO=300 MA -15NS	3	3	3	3	D2,D4,D3
11	11		1109977-00		VZ= 4.3 5% 1N749A	1	1	1	1	D1
12	12		1114117-00		PIV= 40 IO= 75 A - 4NS	3	3	3	3	D6-D8
13	13		1114136-02		LED 6.7MA 5V .2MCD GREEN	1	1	1	1	D14
14	14		1120964-01		LED ASSY 4 RED 5V 8MA	1	1	1	1	D10
15	15		1210929-02		FUSE, SUB-MINI 1.000A, 125V, A	2	2	2	2	F1,F2
16	16		1213113-03		HANDLE,MODULE	1	1	1	1	
17	17		1213506-04		PCB HEADER 09PIN(2X05).100CC 90D	1	1	1	1	J3
18	18		1213506-10		PCB HEADER 20PIN(2X10).100CC 90D	1	1	1	1	J2
19	19		1213506-13		PCB HEADER 50PIN(2X25).100CC 90D	1	1	1	1	J1
20	20		1215006-07		SKT,IC 28PIN DIP TIN SOLD	2	2	2	2	XE21,XE22
21	21		1300202-00		47.0 .25 W 5.0 % CF	3	3	3	3	R1,R2,R29
22	22		1300365-00		1.0 K .25 W 5.0 % CF	1	1	1	1	R3
23	23		1300447-00		4.70 K .25 W 5.0 % CF	1	1	1	1	R8
24	24		1300479-00		10.0 K .25 W 5.0 % CF	2	2	2	2	R11,R12
25	25		1301808-00		22.0 K .25 W 5.0 % CF	1	1	1	1	R4
26	26		1302388-00		2.0 K .25 W 5.0 % CF	1	1	1	1	R14
27	27		1302466-00		100.0 K .25 W 5.0 % CF	1	1	1	1	R16
28	28		1304837-00		24.0 K .25 W 5.0 % CF	1	1	1	1	R7
29	29		1314637-00		R NETWORK 3-22 1.0 % 6PIN	4	4	4	4	R31-R34
30	30		1316334-02		R NETWORK 9-10K 2.0 % 10PIN	2	2	2	2	R10,R23

REVISION HISTORY			BASIC PART NO: M7606
ENG	ECO NUMBER	REV	SECTION A OF C
---	INITIAL	A	SECTION.VARIATION INDEX
BM	M7606-ML001	B	[A] AA,AC,AH,BA
BM	M7606-ML002	C	[B] BC,BH,CA,CC
			[C] CH,DA,DC,DH
			[D]
			[E]
			[F]
			[H]
			[J]
			[K]
			[L]
			[M]
			[N]

DRN: RONALD RHOADES	DATE: 01-FEB-84	D I G I T A L	
CHK'D: DAVID DROZD	DATE: 17-MAY-84	TITLE PARTS LIST MAYFLOWER KA630	
DES.ENG: BARRY MASKAS	DATE: 22-MAY-84	DOCUMENT NUMBER	
RESP.ENG.: BARRY MASKAS	DATE: 8-AUG-84	SIZE: K	CODE: PL — NUMBER: M7606-0-DBP — REV: C
MFG.ENG.: BILL SCHULTE	DATE: 22-MAY-84	RELEASE DATE: 19-JUN-85	
ASSEMBLY NUMBER: D-UA-M7606-0-0	TOP DOCUMENT NUMBER: B-DD-M7606-0-0	FILE NAME: Z8847C.PLS	EDIT #: 37

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION AA D1	AC D1	AH D1	BA D1	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:					
31	31		1316395-02		R NETWORK 9-1.0K 2.0 % 10PIN	1	1	1	1	R9
32	32		1317404-00		249.0 .25 W 1.0 % RN55D-F10	1	1	1	1	R13
33	33		1317558-01		R NETWORK 4-27 5.0 % 8PIN	2	2	2	2	R39,R40
34	34		1318110-00		R NETWORK 11-330 11-680 13PIN	4	4	4	4	R24-R27
35	35		1319610-01		750.0 K .25 W .10% RN55E-B 2	1	1	1	1	R17
36	36		1319645-01		487.0 K .25 W .10% RN55E-B 2	1	1	1	1	R18
37	37		1321144-01		R NETWORK 5-220 2.0% 10PIN	1	1	1	1	R28
38	38		1321218-01		R NETWORK 4-39 +-10HM 8PIN	4	4	4	4	R35-R38
39	39		1811660-05		*** THIS ITEM IS NOT USED ***	-	-	-	-	
40	40		1811660-62		OSCILLATOR,XTAL 614.4 KHZ	1	1	1	1	Y2
41	41		1814057-00		OSCILLATOR, XTAL 40.000 MHZ	1	1	1	1	Y3
42	42		1818800-00		OSCILLATOR,XTAL 32.768KHZ	1	1	1	1	Y1
43	43		1911469-B0		8640 BURNED-IN RECEIVER,B	1	1	1	1	E16
44	44		1912803-B0		LS04 BURNED-IN INVERTER G	1	1	1	1	E25
45	45		1913471-B0		LS367 BURNED-IN DRIVER,BUS	1	1	1	1	E41
46	46		1914140-01		LM 211P COMPARATOR,VOLTAGE	1	1	1	1	E29
47	47		1914987-00		8641-2 TRANSCEIVER,UNIBUS,QU	4	4	4	4	E5,E7,E19,E24
48	48		1915193-B0		LS244 BURNED-IN DRIVER,LIN	1	1	1	1	E28
49	49		1915219-B0		LS373 BURNED-IN FF-O OCTAL	1	1	1	1	E1
50	50		1915415-B0		9636 BURNED-IN DRIVER,DUA	1	1	1	1	E23
51	51		1916028-B1		9643 BURNED-IN DRIVER,TTL	1	1	1	1	E15
52	52		1918868-B0		LS26 NAND GATE,2-IN,HIGH	1	1	1	1	E35
53	53		1919015-00		DC 021 BUS TRANSCEIVER,20PI	3	3	3	3	E11,E30,E36
54	54		1919542-B1		9639 RECEIVER,LINE,DUAL,P	1	1	1	1	E18
55	55		1919684-01		LM 385B2 PREC VOLT REF. 1.23	1	1	1	1	D5
56	56		1920441-B1		74F245 TRANSCEIVER,BI-DIREC	4	4	4	4	E52,E71,E85,E99
57	57		1920442-B1		74F374 FF-D,OCTAL,TRI-STATE	2	2	2	2	E8,E12
58	58		1920853-B1		LS646 BUS TRANSCEIVER/REGI	2	2	2	2	E9,E10
59	59		1921008-B1		74F240 BUFFER/LINE DRIVER,O	2	2	2	2	E80,E94
60	60		1921010-B1		74F373 OCTAL TRANSPARENT LA	5	5	5	5	E2,E6,E46,E53,E73
61	61		1921305-B1		74F00 NAND GATE,QUAD,2-IN,	1	1	1	1	E47
62	62		1921306-B1		74F02 NOR GATE,QUAD,2-IN,B	1	1	1	1	E38
63	63		1921307-B1		74F04 HEX INVERTER,BURNED	2	2	2	2	E32,E87
64	64		1921312-B1		74F32 OR GATE,QUAD,2-IN,BU	2	2	2	2	E37,E65
65	65		1921314-B1		74F74 FF-D,DUAL,BURNED-IN	2	2	2	2	E31,E34
66	66		1921321-B1		74F158 MUX,QUAD,2-IN,BURNED	3	3	3	3	E72,E93,E101
67	67		1921323-B1		74F174 FF-D,HEX,BURNED-IN	2	2	2	2	E17,E59
68	68		1921417-B1		74F521 COMPARATOR,IDENTITY,	1	1	1	1	E66
69	69		1922871-01		TRANSCEIVER,PARITY B	4	4	4	4	E58,E64,E92,E106
70	70		1923679-B1		74F537 DECODER/DEMUX,1-OF-1	1	1	1	1	E100
71	71		2117312-00		UART DL-11 SOFTWARE	1	1	1	1	E13
72	72		2118467-02		*** THIS ITEM IS NOT USED ***	-	-	-	-	
73	73		2118472-02		*** THIS ITEM IS NOT USED ***	-	-	-	-	
74	74		2118795-00		146818 CLOCK/CALENDAR/RAM	1	1	1	1	E14
75	75		2120887-01		DC 333 MICROVAX,32BIT 68PIN	1	1	1	1	E43
76	76		2121384-02		RAM 8KX8,STATIC 150	2	2	2	2	E3,E4
77	77		2121413-02		41256 RAM 256KX1,DYNAMIC 1	-	-	36	-	E48-E51,E54-E57,E60-E63,E67-E70,
								CONT		E74-E77,E81-E84,E88-E91,E95-E98,

DIGITAL	TITLE: MAYFLOWER KA630	SECTION A OF C	SIZE: K	CODE: PL	DOCUMENT NUMBER: M7606-0-DBP	REV: C

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION AA D1	AC D1	AH D1	BA D1	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:					
								CONT		E102-E105
78	78		2121415-02		81256-15 RAM 256KX1,DYNAMIC 1	-	36	-	-	E48-E51,E54-E57,E60-E63,E67-E70,
								CONT		E74-E77,E81-E84,E88-E91,E95-E98,
								CONT		E102-E105
79	79		2122797-01		DC 337 MICROVAX FLOATING PO	1	1	1	-	E42
80	80		2123389-01		GATE ARRAY,3200 GATE	1	1	1	1	E45
81	81		2123413-01		DC379 CMOS GATE ARRAY,144PGA,320	1	1	1	1	E44
82	82		23007L3-00		L3-01	1	1	1	1	E39
83	83		23008L3-00		L3-01 FPLS	1	1	1	1	E20
84	84		23009L3-00		L3-01	1	1	1	1	E26
85	85		23010L3-00		L3-01	1	1	1	1	E33
86	86		23018E6-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	
87	87		23019E6-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	
88	88		23036L1-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	
89	89		23115F2-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	
90	90		23169J5-00		J5-03 PAL,LOGIC	1	1	1	1	E40
91	91		23170J5-00		J5-03 PAL,LOGIC	1	1	1	1	E78
92	92		23171J5-00		J5-03 PAL,LOGIC	1	1	1	1	E86
93	93		23E42F1-00		F1-05	1	1	1	1	E79
94	94		9000024-01		EYELET,ROLLED 0.1210DX0.192	4	4	4	4	
95	95		9009185-00		JUMPER, WIRE, INSULATED, BLACK B	3	3	3	3	W2,W4,W5
96	96		9907004-06		CARTON,DIE CUT,B,200PSI W/ARTWOR	1	1	1	1	
97	97		9907025-06		BAG,ANTISTATIC BUBBLE	1	1	1	1	
98	98		9907092-04		BAG,TRANSLUCENT,ESD PROTECTIVE	1	1	1	1	
99	99		23034E6-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	
100	100		23035E6-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	
101	101		23053L1-00		L1-01	1	1	1	1	E27
102	102		23062E6-00		E6-02 U	1	1	1	1	E22
103	103		23063E6-00		E6-02 U	1	1	1	1	E21

104 NOTE: M7606-AA IS THE PRIMARY VARIATION OF THE KA630 CPU.
105 NOTE: M7606-AC IS THE MODULE USING FUJITSU 256K RAMS.
106 NOTE: M7606-AH IS THE MODULE USING NEC 256K RAMS.
107 NOTE: M7606-BA IS THE AA VERSION WITHOUT FLOATING POINT.
108 NOTE: M7606-BC IS THE MODULE USING FUJITSU 256K RAMS.
109 NOTE: M7606-BH IS THE MODULE USING NEC 256K RAMS.
110 NOTE: M7606-CA IS THE AA VERSION USING 64K RAMS
111 NOTE: M7606-CC IS THE MODULE USING FUJITSU 64K RAMS.
112 NOTE: M7606-CH IS THE MODULE USING NEC 64K RAMS.
113 NOTE: M7606-DA IS THE CA VERSION WITHOUT FLOATING POINT.
114 NOTE: M7606-DC IS THE MODULE USING FUJITSU 64K RAMS.
115 NOTE: M7606-DH IS THE MODULE USING NEC 64K RAMS.

DIGITAL	TITLE	SECTION A OF C	SIZE	CODE	DOCUMENT NUMBER	REV
	MAYFLOWER KA630		K	PL	M7606-0-DBP	C

AUTOMATED BY PRTLST.5R(55) — P A R T S L I S T —

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	VARIATION REVISION LEVEL.	QTY PER VARIATION BC D1	BH D1	CA D1	CC D1	REFERENCE DESIGNATOR
1	1	D-MD-5016523-0-0	5016523-01		CIRCUIT DRILL & ETCH		1	1	1	1	
2	2		1010279-01		.47 MFD 25V 20%	CER	6	6	6	6	C30-C35
3	3		1012784-00		.047 MFD 50V +80-20%	CER	7	7	7	7	C28,C1-C6
4	4		1013466-05		56.0 MMF 50V 5%	CER	1	1	1	1	C67
5	5		1013466-07		220.0 MMF 50V 5%	CER	1	1	1	1	C29
6	6		1014265-02		.33 MFD 50V +80-20%	CER	58	58	58	58	C7-C27,C42-C66,C68,C69,C71-C80
7	7		1017472-00		10 MFD 35V +75-10%	AL EL	3	3	3	3	C39-C41
8	8		1020446-05		22 MFD 16V +50-10%	AL EL	2	2	2	2	C37,C38
9	9		1100114-00		PIV= 25 IO=135 MA		1	1	1	1	D9
10	10		1105275-00		PIV= 60 IO=300 MA -15NS		3	3	3	3	D2,D4,D3
11	11		1109977-00		VZ= 4.3 5% 1N749A		1	1	1	1	D1
12	12		1114117-00		PIV= 40 IO= 75/ A - 4NS		3	3	3	3	D6-D8
13	13		1114136-02		LED 6.7MA 5V .2MCD	GREEN	1	1	1	1	D14
14	14		1120964-01		LED ASSY 4 RED 5V 8MA		1	1	1	1	D10
15	15		1210929-02		FUSE, SUB-MINI 1.000A, 125V, A		2	2	2	2	F1,F2
16	16		1213113-03		HANDLE,MODULE		1	1	1	1	
17	17		1213506-04		PCB HEADER 09PIN(2X05).100CC 90D		1	1	1	1	J3
18	18		1213506-10		PCB HEADER 20PIN(2X10).100CC 90D		1	1	1	1	J2
19	19		1213506-13		PCB HEADER 50PIN(2X25).100CC 90D		1	1	1	1	J1
20	20		1215006-07		SKT,IC 28PIN DIP TIN	SOLD	2	2	2	2	XE21,XE22
21	21		1300202-00		47.0 .25 W 5.0 %	CF	3	3	3	3	R1,R2,R29
22	22		1300365-00		1.0 K .25 W 5.0 %	CF	1	1	1	1	R3
23	23		1300447-00		4.70 K .25 W 5.0 %	CF	1	1	1	1	R8
24	24		1300479-00		10.0 K .25 W 5.0 %	CF	2	2	2	2	R11,R12
25	25		1301808-00		22.0 K .25 W 5.0 %	CF	1	1	1	1	R4
26	26		1302388-00		2.0 K .25 W 5.0 %	CF	1	1	1	1	R14
27	27		1302466-00		100.0 K .25 W 5.0 %	CF	1	1	1	1	R16
28	28		1304837-00		24.0 K .25 W 5.0 %	CF	1	1	1	1	R7
29	29		1314637-00		R NETWORK 3-22 1.0 %	6PIN	4	4	4	4	R31-R34
30	30		1316334-02		R NETWORK 9-10K 2.0 %	10PIN	2	2	2	2	R10,R23

REVISION HISTORY			BASIC PART NO: M7606			
ENG	ECO NUMBER	REV	SECTION B OF C			
---	INITIAL	A	SECTION.VARIATION INDEX	DRN: RONALD RHOADES	DATE: 01-FEB-84	D I G I T A L
BM	M7606-ML001	B	[A] AA,AC,AH,BA	CHK'D: DAVID DROZD	DATE: 17-MAY-84	TITLE PARTS LIST MAYFLOWER KA630
BM	M7606-ML002	C	[B] BC,BH,CA,CC	DES.ENG: BARRY MASKAS	DATE: 22-MAY-84	DOCUMENT NUMBER
			[C] CH,DA,DC,DH			SIZE: K CODE: PL NUMBER: M7606-0-DBP REV: C
			[D]	RESP.ENG.: BARRY MASKAS	DATE: 8-AUG-84	
			[E]			
			[F]	MFG.ENG.: BILL SCHULTE	DATE: 22-MAY-84	RELEASE DATE: 19-JUN-85
			[H]			
			[J]	ASSEMBLY NUMBER: D-UA-M7606-0-0	TOP DOCUMENT NUMBER: B-DD-M7606-0-0	FILE NAME: Z8847C.PLS
			[K]			EDIT #: 37
			[L]			
			[M]			
			[N]			

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION BC D1	BH D1	CA D1	CC D1	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:					
31	31		1316395-02		R NETWORK 9-1.0K 2.0 % 10PIN	1	1	1	1	R9
32	32		1317404-00		249.0 .25 W 1.0 % RN55D-F10	1	1	1	1	R13
33	33		1317558-01		R NETWORK 4-27 5.0 % 8PIN	2	2	2	2	R39,R40
34	34		1318110-00		R NETWORK 11-330 11-680 13PIN	4	4	4	4	R24-R27
35	35		1319610-01		750.0 K .25 W .10% RN55E-B 2	1	1	1	1	R17
36	36		1319645-01		487.0 K .25 W .10% RN55E-B 2	1	1	1	1	R18
37	37		1321144-01		R NETWORK 5-220 2.0% 10PIN	1	1	1	1	R28
38	38		1321218-01		R NETWORK 4-39 +-10HM 8PIN	4	4	4	4	R35-R38
39	39		1811660-05		OSCILLATOR, XTAL 33.330 MHZ	-	-	1	1	Y3
40	40		1811660-62		OSCILLATOR,XTAL 614.4 KHZ	1	1	1	1	Y2
41	41		1814057-00		OSCILLATOR, XTAL 40.000 MHZ	1	1	-	-	Y3
42	42		1818800-00		OSCILLATOR,XTAL 32.768KHZ	1	1	1	1	Y1
43	43		1911469-B0		8640 BURNED-IN RECEIVER,B	1	1	1	1	E16
44	44		1912803-B0		LS04 BURNED-IN INVERTER G	1	1	1	1	E25
45	45		1913471-B0		LS367 BURNED-IN DRIVER,BUS	1	1	1	1	E41
46	46		1914140-01		LM 211P COMPARATOR,VOLTAGE	1	1	1	1	E29
47	47		1914987-00		8641-2 TRANSCEIVER,UNIBUS,QU	4	4	4	4	E5,E7,E19,E24
48	48		1915193-B0		LS244 BURNED-IN DRIVER,LIN	1	1	1	1	E28
49	49		1915219-B0		LS373 BURNED-IN FF-D OCTAL	1	1	1	1	E1
50	50		1915415-B0		9636 BURNED-IN DRIVER,DUA	1	1	1	1	E23
51	51		1916028-B1		9643 BURNED-IN DRIVER,TTL	1	1	1	1	E15
52	52		1918868-B0		LS26 NAND GATE,2-IN,HIGH	1	1	1	1	E35
53	53		1919015-00	DC	021 BUS TRANSCEIVER,20PI	3	3	3	3	E11,E30,E36
54	54		1919542-B1		9639 RECEIVER,LINE,DUAL,P	1	1	1	1	E18
55	55		1919684-01	LM	385B2 PREC VOLT REF. 1.23	1	1	1	1	D5
56	56		1920441-B1		74F245 TRANSCEIVER,BI-DIREC	4	4	4	4	E52,E71,E85,E99
57	57		1920442-B1		74F374 FF-D,OCTAL,TRI-STATE	2	2	2	2	E8,E12
58	58		1920853-B1		LS646 BUS TRANSCEIVER/REGI	2	2	2	2	E9,E10
59	59		1921008-B1		74F240 BUFFER/LINE DRIVER,O	2	2	2	2	E80,E94
60	60		1921010-B1		74F373 OCTAL TRANSPARENT LA	5	5	5	5	E2,E6,E46,E53,E73
61	61		1921305-B1		74F00 NAND GATE,QUAD,2-IN,	1	1	1	1	E47
62	62		1921306-B1		74F02 NOR GATE,QUAD,2-IN,B	1	1	1	1	E38
63	63		1921307-B1		74F04 HEX INVERTER,BURNED	2	2	2	2	E32,E87
64	64		1921312-B1		74F32 OR GATE,QUAD,2-IN,BU	2	2	2	2	E37,E65
65	65		1921314-B1		74F74 FF-D,DUAL,BURNED-IN	2	2	2	2	E31,E34
66	66		1921321-B1		74F158 MUX,QUAD,2-IN,BURNED	3	3	3	3	E72,E93,E101
67	67		1921323-B1		74F174 FF-D,HEX,BURNED-IN	2	2	2	2	E17,E59
68	68		1921417-B1		74F521 COMPARATOR,IDENTITY,	1	1	1	1	E66
69	69		1922871-01		TRANSCEIVER,PARITY B	4	4	4	4	E58,E64,E92,E106
70	70		1923679-B1		74F537 DECODER/DEMUX,1-OF-1	1	1	1	1	E100
71	71		2117312-00		UART DL-11 SOFTWARE	1	1	1	1	E13
72	72		2118467-02		8264-15 RAM 64K X1,150NS 1	-	-	-	36	E48-E51,E54-E57,E60-E63,E67-E70,
								CONT	CONT	E74-E77,E81-E84,E88-E91,E95-E98,
										E102-E105
73	73		2118472-02	***	THIS ITEM IS NOT USED ***	-	-	-	-	
74	74		2118795-00		146818 CLOCK/CALENDAR/RAM	1	1	1	1	E14
75	75		2120887-01	DC	333 MICROVAX,32BIT 68PIN	1	1	1	1	E43
76	76		2121384-02		RAM 8KX8,STATIC 150	2	2	2	2	E3,E4

DIGITAL	TITLE: MAYFLOWER KA630	SECTION B OF C	SIZE: K	CODE: PL	DOCUMENT NUMBER: M7606-0-DBP	REV: C

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	VARIATION REVISION LEVEL:	QTY PER VARIATION BC D1	BH D1	CA D1	CC D1	REFERENCE DESIGNATOR
77	77		2121413-02		41256 RAM 256KX1,DYNAMIC	1	-	36	-	-	E48-E51,E54-E57,E60-E63,E67-E70,
									CONT	CONT	E74-E77,E81-E84,E88-E91,E95-E98,
									CONT	CONT	E102-E105
78	78		2121415-02		81256-15 RAM 256KX1,DYNAMIC	1	36	-	-	-	E48-E51,E54-E57,E60-E63,E67-E70,
									CONT	CONT	E74-E77,E81-E84,E88-E91,E95-E98,
									CONT	CONT	E102-E105
79	79		2122797-01		DC 337 MICROVAX FLOATING PO		-	-	1	1	E42
80	80		2123389-01		GATE ARRAY,3200 GATE		1	1	1	1	E45
81	81		2123413-01		DC379 CMOS GATE ARRAY,144PGA,320		1	1	1	1	E44
82	82		23007L3-00		L3-01		1	1	1	1	E39
83	83		23008L3-00		L3-01 FPLS		1	1	1	1	E20
84	84		23009L3-00		L3-01		1	1	1	1	E26
85	85		23010L3-00		L3-01		1	1	1	1	E33
86	86		23018E6-00		*** THIS ITEM IS NOT USED ***		-	-	-	-	
87	87		23019E6-00		*** THIS ITEM IS NOT USED ***		-	-	-	-	
88	88		23036L1-00		*** THIS ITEM IS NOT USED ***		-	-	-	-	
89	89		23115F2-00		F2-03		-	-	1	1	E79
90	90		23169J5-00		J5-03 PAL,LOGIC		1	1	1	1	E40
91	91		23170J5-00		J5-03 PAL,LOGIC		1	1	1	1	E78
92	92		23171J5-00		J5-03 PAL,LOGIC		1	1	1	1	E86
93	93		23E42F1-00		F1-05		1	1	-	-	E79
94	94		9000024-01		EYELET,ROLLED 0.1210DX0.192		4	4	4	4	
95	95		9009185-00		JUMPER, WIRE, INSULATED, BLACK B		3	3	-	-	W2,W4,W5
	CONT						-	-	3	3	W2,W3,W6
96	96		9907004-06		CARTON,DIE CUT,B,200PSI W/ARTWOR		1	1	1	1	
97	97		9907025-06		BAG,ANTISTATIC BUBBLE		1	1	1	1	
98	98		9907092-04		BAG,TRANSLUCENT,ESD PROTECTIVE		1	1	1	1	
99	99		23034E6-00		*** THIS ITEM IS NOT USED ***		-	-	-	-	
100	100		23035E6-00		*** THIS ITEM IS NOT USED ***		-	-	-	-	
101	101		23053L1-00		L1-01		1	1	1	1	E27
102	102		23062E6-00		E6-02	U	1	1	1	1	E22
103	103		23063E6-00		E6-02	U	1	1	1	1	E21

104 NOTE: M7606-AA IS THE PRIMARY VARIATION OF THE KA630 CPU.
105 NOTE: M7606-AC IS THE MODULE USING FUJITSU 256K RAMS.
106 NOTE: M7606-AH IS THE MODULE USING NEC 256K RAMS.
107 NOTE: M7606-BA IS THE AA VERSION WITHOUT FLOATING POINT.
108 NOTE: M7606-BC IS THE MODULE USING FUJITSU 256K RAMS.
109 NOTE: M7606-BH IS THE MODULE USING NEC 256K RAMS.
110 NOTE: M7606-CA IS THE AA VERSION USING 64K RAMS
111 NOTE: M7606-CC IS THE MODULE USING FUJITSU 64K RAMS.
112 NOTE: M7606-CH IS THE MODULE USING NEC 64K RAMS.
113 NOTE: M7606-DA IS THE CA VERSION WITHOUT FLOATING POINT.
114 NOTE: M7606-DC IS THE MODULE USING FUJITSU 64K RAMS.

LINE ITEM	TOP DOCUMENT	MIN PART NUMBER	REV	DESCRIPTION	QTY PER VARIATION BC	BH	CA	CC	REFERENCE DESIGNATOR
				VARIATION REVISION LEVEL:	D1	D1	D1	D1	

115 NOTE: M7606-DH IS THE MODULE USING NEC 64K RAMS.

AUTOMATED BY PRTLST.5R(55) — P A R T S L I S T — SHEET C1 OF C3

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY CH D1	QTY DA D1	QTY DC D1	QTY DH D1	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:					
1	1	D-MD-5016523-0-0	5016523-01		CIRCUIT DRILL & ETCH	1	1	1	1	
2	2		1010279-01		.47 MFD 25V 20% CER	6	6	6	6	C30-C35
3	3		1012784-00		.047 MFD 50V +80-20% CER	7	7	7	7	C28,C1-C6
4	4		1013466-05		56.0 MMF 50V 5% CER	1	1	1	1	C67
5	5		1013466-07		220.0 MMF 50V 5% CER	1	1	1	1	C29
6	6		1014265-02		.33 MFD 50V +80-20% CER	58	58	58	58	C7-C27,C42-C66,C68,C69,C71-C80
7	7		1017472-00		10 MFD 35V +75-10% AL EL	3	3	3	3	C39-C41
8	8		1020446-05		22 MFD 16V +50-10% AL EL	2	2	2	2	C37,C38
9	9		1100114-00		PIV= 25 IO=135 MA	1	1	1	1	D9
10	10		1105275-00		PIV= 60 IO=300 MA -15NS	3	3	3	3	D2,D4,D3
11	11		1109977-00		VZ= 4.3 5% 1N749A	1	1	1	1	D1
12	12		1114117-00		PIV= 40 IO= 75 A - 4NS	3	3	3	3	D6-D8
13	13		1114136-02		LED 6.7MA 5V .2MCD GREEN	1	1	1	1	D14
14	14		1120964-01		LED ASSY 4 RED 5V 8MA	1	1	1	1	D10
15	15		1210929-02		FUSE, SUB-MINI 1.000A, 125V, A	2	2	2	2	F1,F2
16	16		1213113-03		HANDLE,MODULE	1	1	1	1	
17	17		1213506-04		PCB HEADER 09PIN(2X05).100CC 90D	1	1	1	1	J3
18	18		1213506-10		PCB HEADER 20PIN(2X10).100CC 90D	1	1	1	1	J2
19	19		1213506-13		PCB HEADER 50PIN(2X25).100CC 90D	1	1	1	1	J1
20	20		1215006-07		SKT,IC 28PIN DIP TIN SOLD	2	2	2	2	XE21,XE22
21	21		1300202-00		47.0 .25 W 5.0 % CF	3	3	3	3	R1,R2,R29
22	22		1300365-00		1.0 K .25 W 5.0 % CF	1	1	1	1	R3
23	23		1300447-00		4.70 K .25 W 5.0 % CF	1	1	1	1	R8
24	24		1300479-00		10.0 K .25 W 5.0 % CF	2	2	2	2	R11,R12
25	25		1301808-00		22.0 K .25 W 5.0 % CF	1	1	1	1	R4
26	26		1302388-00		2.0 K .25 W 5.0 % CF	1	1	1	1	R14
27	27		1302466-00		100.0 K .25 W 5.0 % CF	1	1	1	1	R16
28	28		1304837-00		24.0 K .25 W 5.0 % CF	1	1	1	1	R7
29	29		1314637-00		R NETWORK 3-22 1.0 % 6PIN	4	4	4	4	R31-R34
30	30		1316334-02		R NETWORK 9-10K 2.0 % 10PIN	2	2	2	2	R10,R23

REVISION HISTORY

ENG	ECO NUMBER	REV
---	INITIAL	A
BM	M7606-ML001	B
BM	M7606-ML002	C

BASIC PART NO: M7606

SECTION C OF C

SECTION.VARIATION INDEX
[A] AA,AC,AH,BA
[B] BC,BH,CA,CC
[C] CH,DA,DC,DH
[D]
[E]
[F]
[H]
[J]
[K]
[L]
[M]
[N]

DRN: RONALD RHOADES	DATE: 01-FEB-84	D I G I T A L
CHK'D: DAVID DROZD	DATE: 17-MAY-84	TITLE PARTS LIST MAYFLOWER KA630
DES.ENG: BARRY MASKAS	DATE: 22-MAY-84	DOCUMENT NUMBER
RESP.ENG.: BARRY MASKAS	DATE: 8-AUG-84	SIZE: K · CODE: PL · NUMBER: M7606-0-DBP · REV: C
MFG.ENG.: BILL SCHULTE	DATE: 22-MAY-84	RELEASE DATE: 19-JUN-85
ASSEMBLY NUMBER: D-UA-M7606-0-0	TOP DOCUMENT NUMBER: B-DD-M7606-0-0	FILE NAME: Z8847C.PLS · EDIT #: 37

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION CH D1	DA D1	DC D1	DH D1	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:					
31	31		1316395-02		R NETWORK 9-1.0K 2.0 % 10PIN	1	1	1	1	R9
32	32		1317404-00		249.0 .25 W 1.0 % RN55D-F10	1	1	1	1	R13
33	33		1317558-01		R NETWORK 4-27 5.0 % 8PIN	2	2	2	2	R39,R40
34	34		1318110-00		R NETWORK 11-330 11-680 13PIN	4	4	4	4	R24-R27
35	35		1319610-01		750.0 K .25 W .10% RN55E-B 2	1	1	1	1	R17
36	36		1319645-01		487.0 K .25 W .10% RN55E-B 2	1	1	1	1	R18
37	37		1321144-01		R NETWORK 5-220 2.0% 10PIN	1	1	1	1	R28
38	38		1321218-01		R NETWORK 4-39 +-10HM 8PIN	4	4	4	4	R35-R38
39	39		1811660-05		OSCILLATOR, XTAL 33.330 MHZ	1	1	1	1	Y3
40	40		1811660-62		OSCILLATOR,XTAL 614.4 KHZ	1	1	1	1	Y2
41	41		1814057-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	
42	42		1818800-00		OSCILLATOR,XTAL 32.768KHZ	1	1	1	1	Y1
43	43		1911469-B0		8640 BURNED-IN RECEIVER,B	1	1	1	1	E16
44	44		1912803-B0		LS04 BURNED-IN INVERTER G	1	1	1	1	E25
45	45		1913471-B0		LS367 BURNED-IN DRIVER,BUS	1	1	1	1	E41
46	46		1914140-01		LM 211P COMPARATOR,VOLTAGE	1	1	1	1	E29
47	47		1914987-00		8641-2 TRANSCEIVER,UNIBUS,QU	4	4	4	4	E5,E7,E19,E24
48	48		1915193-B0		LS244 BURNED-IN DRIVER,LIN	1	1	1	1	E28
49	49		1915219-B0		LS373 BURNED-IN FF-D OCTAL	1	1	1	1	E1
50	50		1915415-B0		9636 BURNED-IN DRIVER,DUA	1	1	1	1	E23
51	51		1916028-B1		9643 BURNED-IN DRIVER,TTL	1	1	1	1	E15
52	52		1918868-B0		LS26 NAND GATE,2-IN,HIGH	1	1	1	1	E35
53	53		1919015-00		DC 021 BUS TRANSCEIVER,20PI	3	3	3	3	E11,E30,E36
54	54		1919542-B1		9639 RECEIVER,LINE,DUAL,P	1	1	1	1	E18
55	55		1919684-01		LM 385B2 PREC VOLT REF. 1.23	1	1	1	1	D5
56	56		1920441-B1		74F245 TRANSCEIVER,BI-DIREC	4	4	4	4	E52,E71,E85,E99
57	57		1920442-B1		74F374 FF-D,OCTAL,TRI-STATE	2	2	2	2	E8,E12
58	58		1920853-B1		LS646 BUS TRANSCEIVER/REGI	2	2	2	2	E9,E10
59	59		1921008-B1		74F240 BUFFER/LINE DRIVER,O	2	2	2	2	E80,E94
60	60		1921010-B1		74F373 OCTAL TRANSPARENT LA	5	5	5	5	E2,E6,E46,E53,E73
61	61		1921305-B1		74F00 NAND GATE,QUAD,2-IN,	1	1	1	1	E47
62	62		1921306-B1		74F02 NOR GATE,QUAD,2-IN,B	1	1	1	1	E38
63	63		1921307-B1		74F04 HEX INVERTER,BURNED	2	2	2	2	E32,E87
64	64		1921312-B1		74F32 OR GATE,QUAD,2-IN,BU	2	2	2	2	E37,E65
65	65		1921314-B1		74F74 FF-D,DUAL,BURNED-IN	2	2	2	2	E31,E34
66	66		1921321-B1		74F158 MUX,QUAD,2-IN,BURNED	3	3	3	3	E72,E93,E101
67	67		1921323-B1		74F174 FF-D,HEX,BURNED-IN	2	2	2	2	E17,E59
68	68		1921417-B1		74F521 COMPARATOR,IDENTITY,	1	1	1	1	E66
69	69		1922871-01		TRANSCEIVER,PARITY B	4	4	4	4	E58,E64,E92,E106
70	70		1923679-B1		74F537 DECODER/DEMUX,1-OF-1	1	1	1	1	E100
71	71		2117312-00		UART DL-11 SOFTWARE	1	1	1	1	E13
72	72		2118467-02		8264-15 RAM 64K X1,150NS 1	-	-	36 CONT	- CONT	E48-E51,E54-E57,E60-E63,E67-E70, E74-E77,E81-E84,E88-E91,E95-E98, E102-E105
73	73		2118472-02		4164-3 MOS RAM 64K X1,150	36	-	- CONT	36 CONT	E48-E51,E54-E57,E60-E63,E67-E70, E74-E77,E81-E84,E88-E91,E95-E98, E102-E105
74	74		2118795-00		146818 CLOCK/CALENDAR/RAM	1	1	1	1	E14

DIGITAL	TITLE	SECTION C OF C	SIZE	CODE	DOCUMENT NUMBER	REV
	MAYFLOWER KA630		K	PL	M7606-0-DBP	C

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION CH D1	DA D1	DC D1	DH D1	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:					
75	75		2120887-01		DC 333 MICROVAX,32BIT 68PIN	1	1	1	1	E43
76	76		2121384-02		RAM 8KX8,STATIC 150	2	2	2	2	E3,E4
77	77		2121413-02		*** THIS ITEM IS NOT USED ***	-	-	-	-	
78	78		2121415-02		*** THIS ITEM IS NOT USED ***	-	-	-	-	
79	79		2122797-01		DC 337 MICROVAX FLOATING PO	1	-	-	-	E42
80	80		2123389-01		GATE ARRAY,3200 GATE	1	1	1	1	E45
81	81		2123413-01		DC379 CMOS GATE ARRAY,144PGA,320	1	1	1	1	E44
82	82		23007L3-00		L3-01	1	1	1	1	E39
83	83		23008L3-00		L3-01 FPLS	1	1	1	1	E20
84	84		23009L3-00		L3-01	1	1	1	1	E26
85	85		23010L3-00		L3-01	1	1	1	1	E33
86	86		23018E6-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	
87	87		23019E6-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	
88	88		23036L1-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	
89	89		23115F2-00		F2-03	1	1	1	1	E79
90	90		23169J5-00		J5-03 PAL,LOGIC	1	1	1	1	E40
91	91		23170J5-00		J5-03 PAL,LOGIC	1	1	1	1	E78
92	92		23171J5-00		J5-03 PAL,LOGIC	1	1	1	1	E86
93	93		23E42F1-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	
94	94		9000024-01		EYELET,ROLLED 0.1210DX0.192	4	4	4	4	
95	95		9009185-00		JUMPER, WIRE, INSULATED, BLACK B	3	3	3	3	W2,W3,W6
96	96		9907004-06		CARTON,DIE CUT,B,200PSI W/ARTWOR	1	1	1	1	
97	97		9907025-06		BAG,ANTISTATIC BUBBLE	1	1	1	1	
98	98		9907092-04		BAG,TRANSLUCENT,ESD PROTECTIVE	1	1	1	1	
99	99		23034E6-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	
100	100		23035E6-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	
101	101		23053L1-00		L1-01	1	1	1	1	E27
102	102		23062E6-00	U	E6-02	1	1	1	1	E22
103	103		23063E6-00	U	E6-02	1	1	1	1	E21

104 NOTE: M7606-AA IS THE PRIMARY VARIATION OF THE KA630 CPU.
105 NOTE: M7606-AC IS THE MODULE USING FUJITSU 256K RAMS.
106 NOTE: M7606-AH IS THE MODULE USING NEC 256K RAMS.
107 NOTE: M7606-BA IS THE AA VERSION WITHOUT FLOATING POINT.
108 NOTE: M7606-BC IS THE MODULE USING FUJITSU 256K RAMS.
109 NOTE: M7606-BH IS THE MODULE USING NEC 256K RAMS.
110 NOTE: M7606-CA IS THE AA VERSION USING 64K RAMS
111 NOTE: M7606-CC IS THE MODULE USING FUJITSU 64K RAMS.
112 NOTE: M7606-CH IS THE MODULE USING NEC 64K RAMS.
113 NOTE: M7606-DA IS THE CA VERSION WITHOUT FLOATING POINT.
114 NOTE: M7606-DC IS THE MODULE USING FUJITSU 64K RAMS.
115 NOTE: M7606-DH IS THE MODULE USING NEC 64K RAMS.

DIGITAL	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
	MAYFLOWER KA630	C OF C	K	PL	M7606-0-DBP	C

KA630-AA,-AB,-AC,-AD (M7606) DRAWING DIRECTORY

DATA PATH

0 MICROVAX II SYSTEM

1 KA630 - uVAX on Q22 Bus

1.1 uVAX & FPU

1.1.1 uVAX & FPU PINOUTS

1.2 ADDRESS LATCH/LOCAL MEMORY DECODE

1.3 Memory Subsystem

1.4 Q22 Bus Interface Gate Array

1.4.1-1.4.2, 1.4.1.1-1.4.1.9

1.5 Translation Map Group

1.6 KA630 QBUS INTERFACE

1.7 uVAX Interface Gate Array

1.7.1-1.7.2, 1.7.2.1-1.7.2.10

1.8 TOY CLOCK

1.9 Console Serial Line Interface

1.10 LEDS and Configuration Connector

1.11 Decoupling Capacitors

CONTROL

2 KA630 State Machines

2.1 uVAX Cycle Controller

2.1.1 MEMORY SEQUENCER

2.1.2 MEMORY SEQUENCER SUPPORT

2.2 Q22 BUS STATE MACHINES

MISC.

3 KA630 MEMORY ARBITER LISTING

3.1-3.2 KA630 MEMORY ARBITER FLOW DIAGRAM

4 KA630 LOCAL I/O CONTROL MACHINE LISTING

4.1 KA630 LOCAL I/O CONTROL MACHINE FLOW DIAGRAM

5 Q22 BUS ARBITRATION CONTROL MACHINE LISTING

5.1 Q22 BUS ARBITRATION CONTROL MACHINE FLOW DIAGRAM

6 Q22 BUS MASTER CONTROL MACHINE LISTING

6.1 Q22 BUS MASTER CONTROL MACHINE FLOW DIAGRAM

7 Q22 BUS SLAVE CONTROL MACHINE LISTING

7.1-7.2 Q22 BUS SLAVE CONTROL MACHINE FLOW DIAGRAM

8 1KX4 RAS DECODE PROM (E79) LISTING

9 PALASM LISTINGS FOR PAL16L8A DEVICES

10 MNEMONIC DICTIONARY

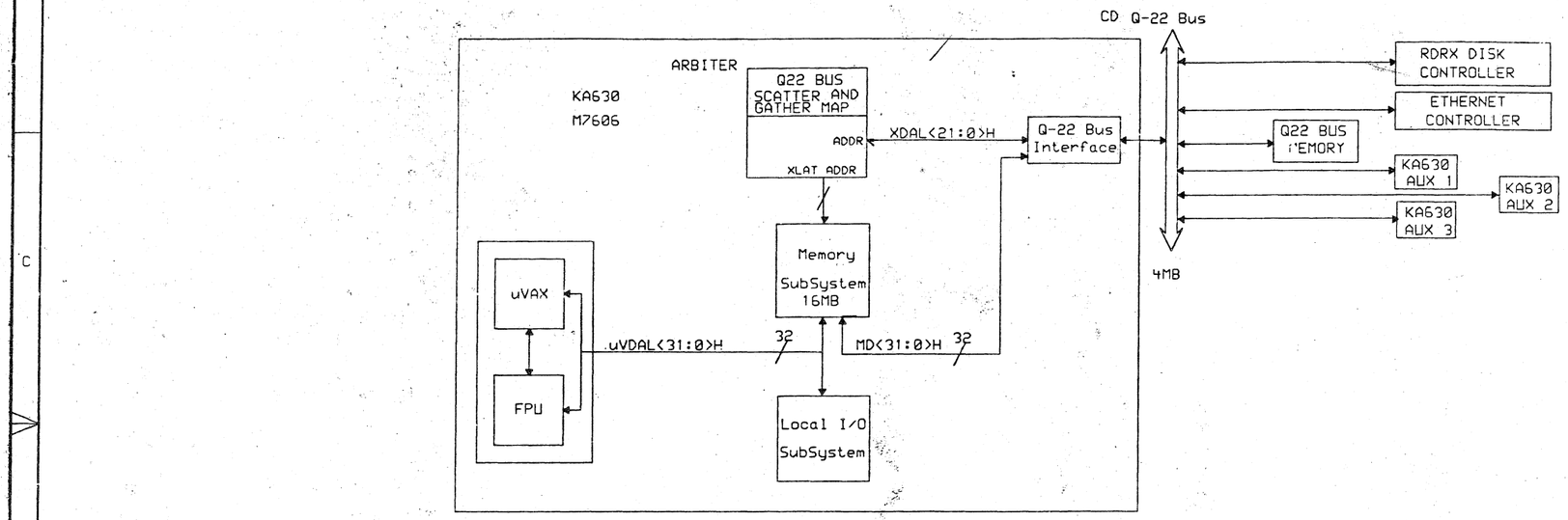
DRAWING
TITLE=DIRECTORY
ABBREV=DIRECT
CIRCUIT←TYPE=DOCUMENTATION
LAST←MODIFIED=Sun Dec 9 16:50:34 1984

DEFINE
X←FIRST=0
X←STEP=SIZE

REVISION
CHK CHANGE NO REV
M7606M1000 B
JOE MC MULLIN

DRN. MASKAS & McNamara DATE 18-DEC-84
CHK'D MASKAS & McNamara DATE 18-DEC-84
USRA:
FIRST USED ON OPTION/MODEL:
END MASKAS & McNamara DATE 18-DEC-84
BOARD LOCATION:
TOP DOCUMENT NUMBER:

TITLE: M7606 DRAWING DIRECTORY
SIZE D CODE CS NUMBER M7606 -0 -1 REV. B



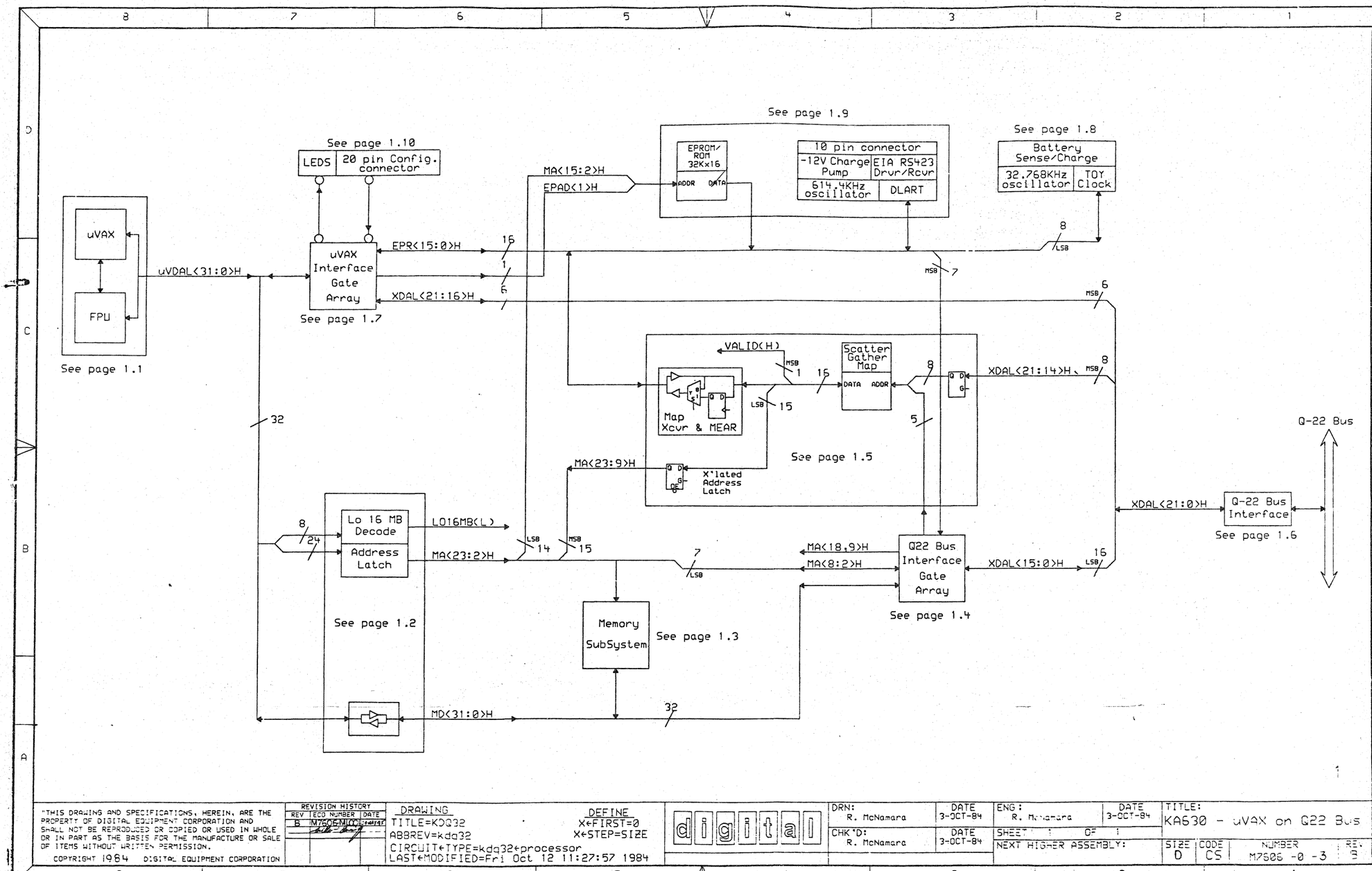
REVISION HISTORY		
REV	ECO NUMBER	DATE
B	M7606	27-APR-84

DRAWING
TITLE=KASYSTEM
ABBREV=kasystem
CIRCUIT=TYPE=kdq32=processor
LAST=MODIFIED=Sun Oct 7 18:10:51 1984

DEFINE
X=FIRST=0
X=STEP=SIZE

digital

DRN: BARRY MASKAS	DATE 27-APR-84	ENG: BARRY MASKAS	DATE 27-APR-84	TITLE: MICROVAX II SYSTEM
CHK'D: BARRY MASKAS	DATE 27-APR-84	SHEET 1 OF 1		
		NEXT HIGHER ASSEMBLY:		SIZE D CODE CS NUMBER M7606 -0 -2 REV B



REVISION HISTORY		
REV	ECO NUMBER	DATE
B	M7605M100	

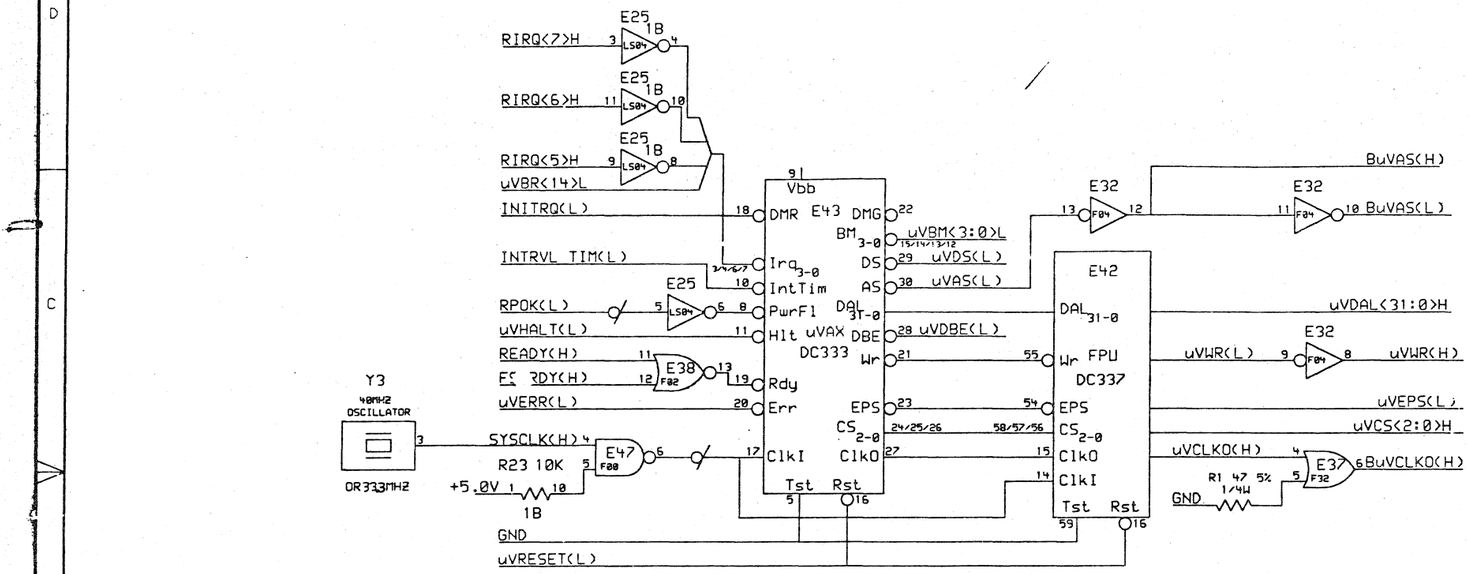
DRAWING
TITLE=KDQ32
ABBREV=kdq32
CIRCUIT←TYPE=kdq32←processor
LAST←MODIFIED=Fri Oct 12 11:27:57 1984

DEFINE
X←FIRST=0
X←STEP=SIZE

DRN: R. McNamara	DATE 3-OCT-84	ENG: R. McNamara	DATE 3-OCT-84
CHK'D: R. McNamara	DATE 3-OCT-84	SHEET 1 OF 1	
		NEXT HIGHER ASSEMBLY:	

TITLE: KA630 - uVAX on Q22 Bus

SIZE	CODE	NUMBER	REV
D	CS	M7605 -0 -3	B



uVAS(L) CYCLES

uVCS<2:0>H uVWR(L)

LHH	H	interrupt acknowledge (IAK)
HLL	H	read (I - stream)
HLH	H	read (lock)
HHx	H	read (D - stream)
HLH	L	write (unlock)
HHH	L	write (D - stream)

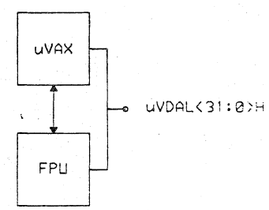
x => don't care

uVEPS(L) CYCLES

uVCS<2:0>H uVWR(L)

HLH	H	read data
HHH	H	read response (uVCS<2> pulled low by responder)
HLL	L	write command (fpu)
HLH	L	write data
HHL	L	write command (non-fpu)

1.1



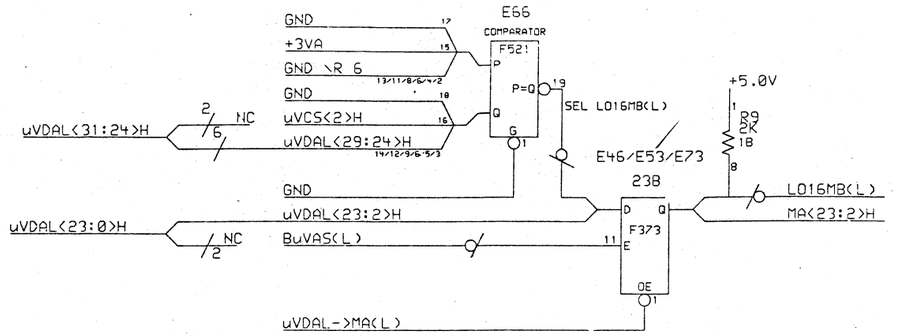
REVISION HISTORY		
REV	ECO NUMBER	DATE
B	M7526 M7001	5-MAR-85

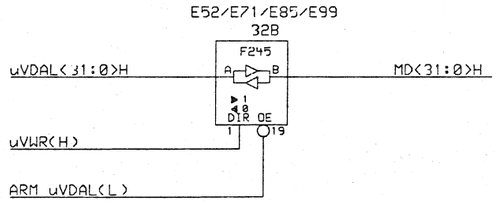
DRAWING
TITLE=UVAX
ABBREV=UVAX←FPU
CIRCUIT←TYPE=uVAX/FPU
LAST←MODIFIED=Fri Nov 9 18:39:57 1984

DEFINE
X←FIRST=0
X←STEP=SIZE

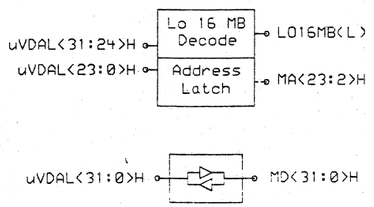
digital

DRN: BARRY MASKAS	DATE 3-OCT-84	ENG: BARRY MASKAS	DATE 3-OCT-84	TITLE: uVAX & FPU
CHK'D: BARRY MASKAS	DATE 3-OCT-84	SHEET 1 OF 1		
		NEXT HIGHER ASSEMBLY:		SIZE D | CODE CS | NUMBER M7526 -2 -1 | REV B





1.2



REVISION HISTORY		
REV	ECO NUMBER	DATE
A	M7605M.001	

DRAWING
TITLE=ADDR LATCH
ABBREV=ADLATCH
CIRCUIT-TYPE=ADDR-LATCH
LAST-MODIFIED=Sat Oct 20 18:19:02 1984

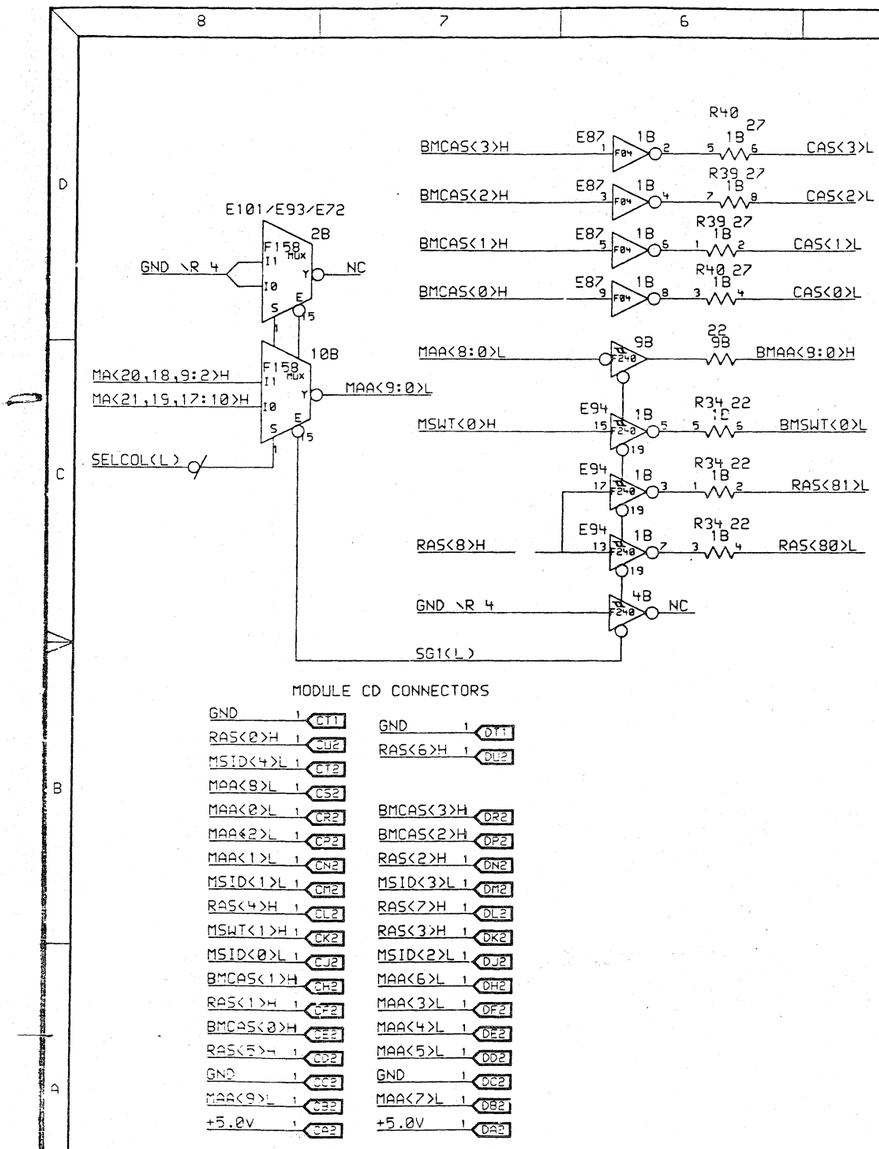
DEFINE
X-FIRST=0
X-STEP=SIZE

DRN: BARRY MASKAS	DATE 3-OCT-84	ENG: BARRY MASKAS	DATE 3-OCT-84
CHK: BARRY MASKAS	DATE 3-OCT-84	SHEET 1 OF	

TITLE: ADDRESS LATCH/ LOCAL MEMORY DECODE

NEXT HIGHER ASSEMBLY:

SIZE	CODE	NUMBER	REV
D	CS	M7605 -0 -6	B



REVISION HISTORY

REV	ECO NUMBER	DATE
B	M7506-MICO	

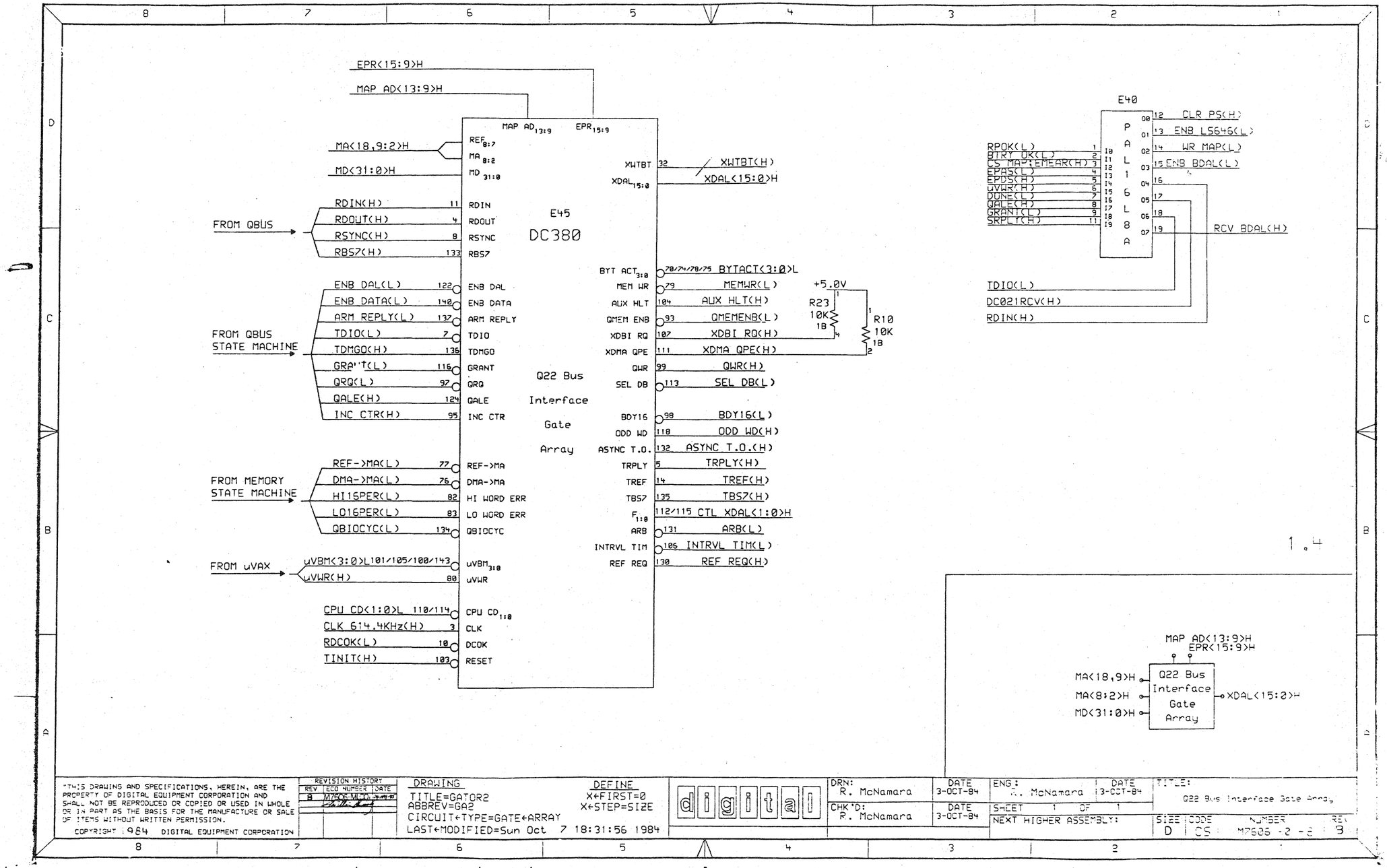
DRAWING
TITLE=MEM
ABBREV=MEM
CIRCUIT=TYPE=MEMEORY
LAST=MODIFIED=Mon Oct 29 09:26:41 1984

DEFINE
X=FIRST=0
X=STEP=SIZE

DRN: BARRY MASKAS	DATE 3-OCT-84	ENG: BARRY MASKAS
CHK'D: BARRY MASKAS	DATE 3-OCT-84	SHEET 1 OF 1
		NEXT HIGHER ASSEMBLY:

TITLE: Memory SubSystem

SIZE	CODE	NUMBER	REV
D	CS	M7505-YJ-7	B



REVISION HISTORY		
REV	ECO NUMBER	DATE
B	M7605-M0001	[illegible]

DRAWING
TITLE=GATOR2
ABBREV=GA2
CIRCUIT←TYPE=GATE←ARRAY
LAST←MODIFIED=Sun Oct 7 18:31:56 1984

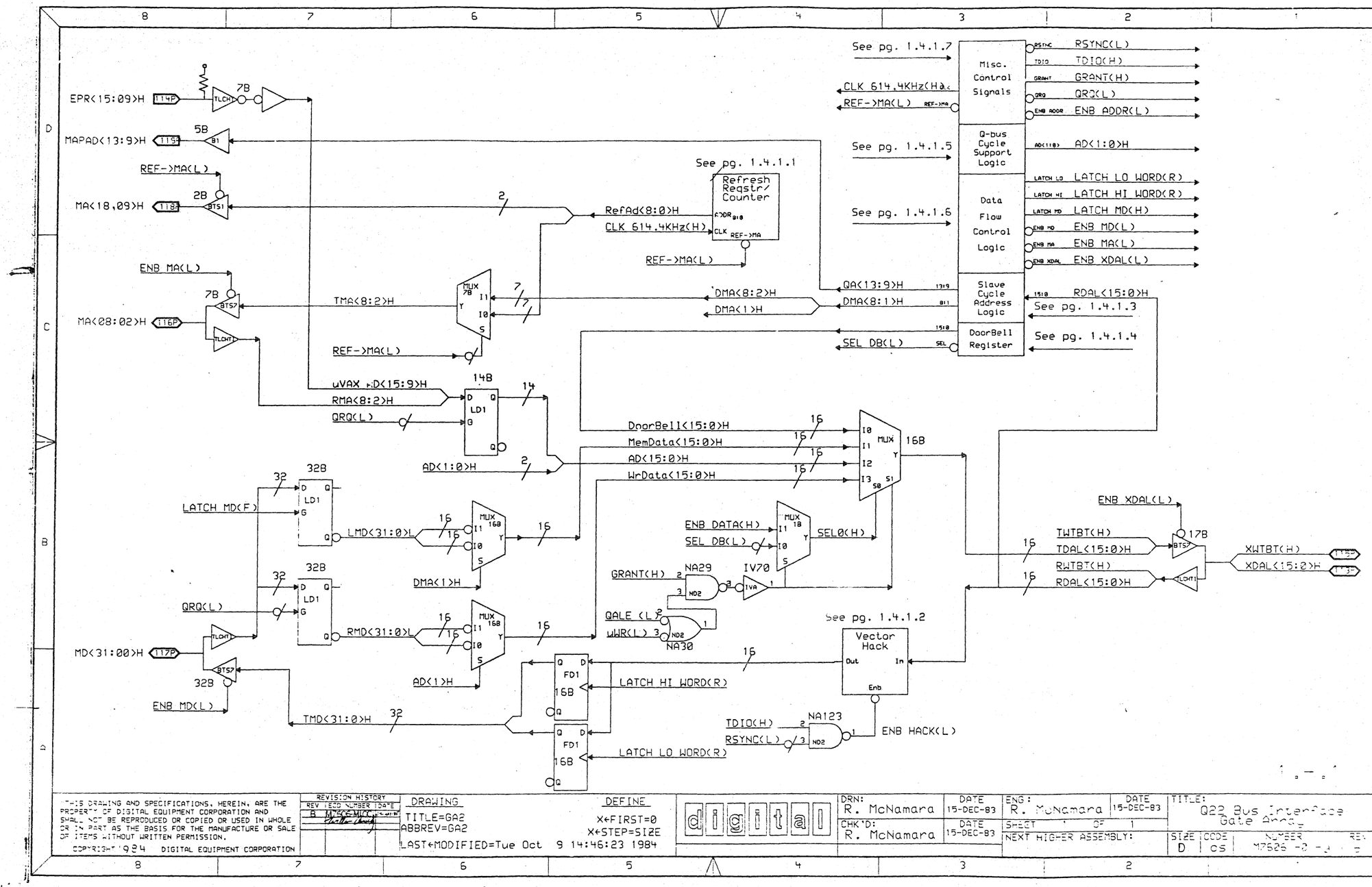
DEFINE
X←FIRST=0
X←STEP=SIZE

digital

DRN: R. McNamara	DATE 3-OCT-84	ENG: R. McNamara	DATE 3-OCT-84
CHK'D: R. McNamara	DATE 3-OCT-84	SHEET 1 OF 1	
		NEXT HIGHER ASSEMBLY:	

TITLE: Q22 Bus Interface Gate Array

SIZE	CODE	NUMBER	REV
D	CS	M7605-0-0	B



REVISION HISTORY
REV | ECO NUMBER | DATE
B | M7526-MICRO | 15-DEC-83

DRAWING
TITLE=GA2
ABBREV=GA2
LAST←MODIFIED=Tue Oct 9 14:46:23 1984

DEFINE
X←FIRST=0
X←STEP=SIZE

DRN: R. McNamara	DATE 15-DEC-83	ENG: R. McNamara	DATE 15-DEC-83
CHK'D: R. McNamara	DATE 15-DEC-83	SHEET 1 OF 1	
		NEXT HIGHER ASSEMBLY:	

TITLE: Q22 Bus Interface Gate Array

SIZE	CODE	NUMBER	REV
D	05	M7526 -0 -J	B

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
Q	72 vss	68 MD25	64 MD21	62 MD15	61 MD11	57 MD5	56 MD1	53 MD29	51 MD26	50 MD22	47 MD16	44 MD12	42 MD6	39 MD0	36 vss	Q
P	75 BYT ACT0	71 MD27	67 MD23	65 MD17	62 MD13	59 MD7	58 MD3	52 MD31	48 MD28	46 MD24	43 MD18	40 MD14	38 MD8	35 MD2	32 XWTBT	P
N	78 BYT ACT1	74 BYT ACT2	70 BYT ACT3	69 MD19	66 vss	60 MD9	55 vss	54 vdd	49 MD30	45 vss	41 MD20	37 vdd	34 MD10	31 MD4	28 XDAL15	N
M	80 UVLWR	76 DMA->MA	73 vdd										33 XDAL12	29 XDAL13	27 XDAL14	M
L	83 LO WORD ERR	79 MEM WR	77 REF->MA		stand off						stand off		30 vss	26 XDAL10	25 XDAL11	L
K	86 REF8	82 HI WORD ERR	81 vss										24 XDAL7	23 XDAL8	21 XDAL9	K
J	87 MA7	84 MA8	85 REF7										19 vss	22 XDAL5	20 XDAL6	J
H	89 MA5	88 MA6	90 vdd										18 vdd	16 XDAL3	17 XDAL4	H
G	92 MA3	94 MA4	91 vss										13 XDAL0	12 XDAL1	15 XDAL2	G
F	93 QMEM ENB	95 INC CTR	96 MA2		stand off								9 vss	10 DCOK	14 TREF	F
E	97 QRQ	98 BDY16	102 vss								stand off		5 DOREPLY	7 TDIO	11 RDIN	E
D	99 QWR	101 UVBM3	105 UVBM2								extra pin		1 vdd	4 RDOUT	8 RSTNC	D
C	100 UVBM1	103 RESET	106 INTRVL TIM	109 vdd	113 SEL DB	117 vss	121 EPR13	126 vdd	127 vss	132 ASNYC T.O	138 vss	141 MAP AD10	142 MAP AD13	2 MAP AD12	6 MAP AD11	C
B	104 AUX HLT	107 XDBI RQ	110 CPU CD1	112 F1	115 F0	118 ODD WD	120 EPR9	124 QALE	130 REF REQ	131 ARB	134 QBIOCYC	137 TRPLY	139 MAP AD9	143 UVBM0	3 CLK 614.4KHZ	B
A	108 vss	111 XDMA QPE	114 CPU CD0	116 GRANT	119 EPR10	122 ENB ADDR	123 EPR11	125 EPR12	128 EPR14	129 EPR15	133 RBS7	135 TBS7	136 TDMGO	140 ENB DATA	144 vss	A
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

Footprint
Side 1 View
LSI5320
144 pin grid

DC380

Q22 BUS
Interface
Gate Array

1.4.2

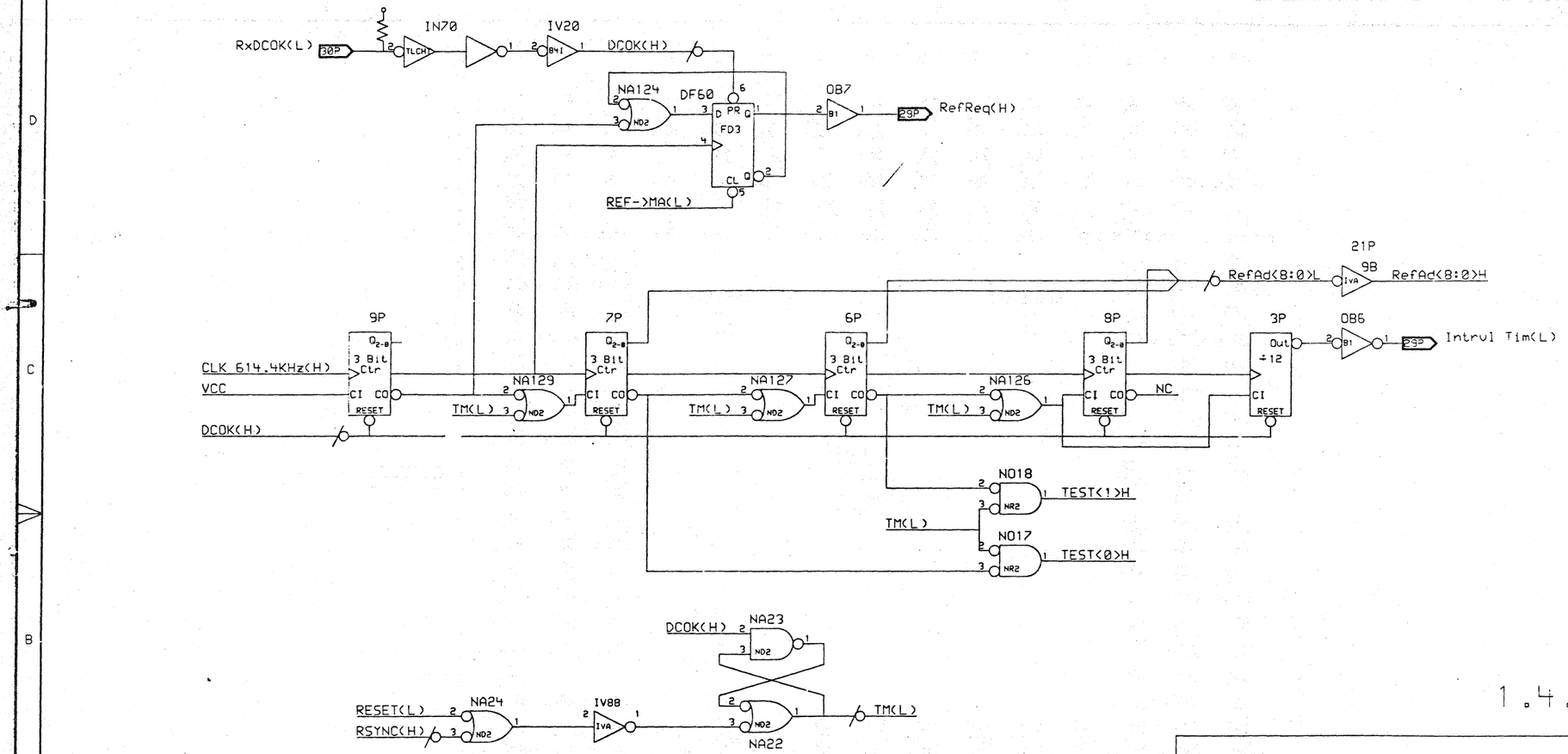
REVISION HISTORY		
REV	ECO NUMBER	DATE
B	M7605M.001	

digital

DRN: R. McNamara	DATE 18-MAY-84	ENG: R. McNamara	DATE 18-MAY-84
CHK'D: R. McNamara	DATE 18-MAY-84	NEXT HIGHER ASSEMBLY:	SHEET 1 OF 1

TITLE: DC380 PAD ASSIGNMENT TOP VIEW
LSI5320 IN 144 PIN GRID ARRAY

SIZE	CODE	NUMBER	REV
D	CS	M7605 -2 -10	B



1.4.1.1

REVISION HISTORY		
REV	ECO NUMBER	DATE
B	M7526-11 CO	

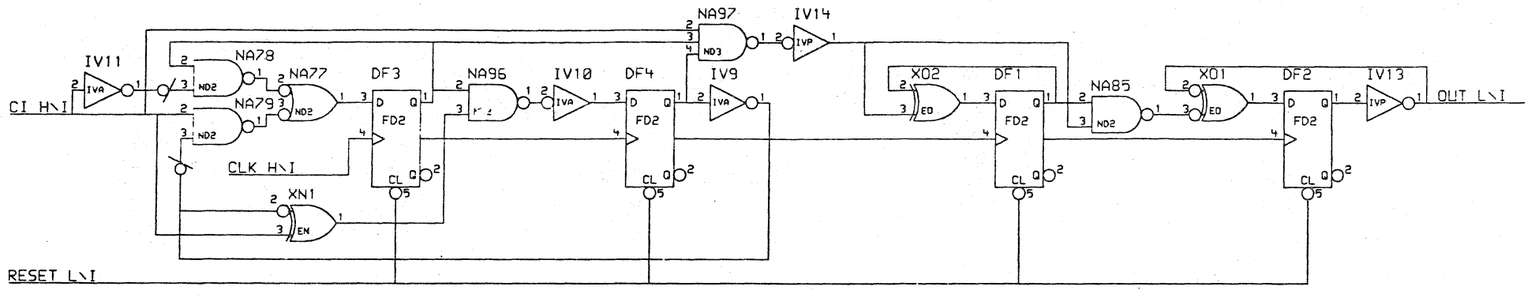
DRAWING
LAST←MODIFIED=Wed Oct 10 19:06:07 1984

digital

DRN: R. McNamara	DATE 13-NOV-83	ENG: R. McNamara	DATE 13-NOV-83
CHK'D: R. McNamara	DATE 13-NOV-83	SHEET 1 OF 1	
		NEXT HIGHER ASSEMBLY:	

TITLE: REFRESH LOGIC/COUNTER

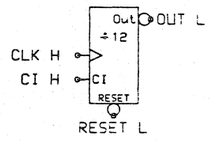
SIZE	CODE	NUMBER	REV
D	05	M7525 -0 -11	B



DIVIDE BY 3

DIVIDE BY 4

1.4.1.1.1



REVISION HISTORY		
REV	ECO NUMBER	DATE
B	INITIAL RELEASE	13-NOV-83

DRAWING
TITLE=DIV BY 12
ABBREV=DIV12
LAST←MODIFIED=NOT WRITTEN

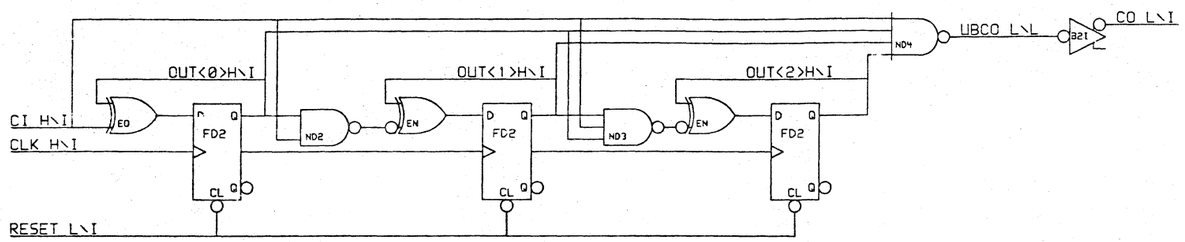
DEFINE
X←FIRST=0
X←STEP=SIZE

digital

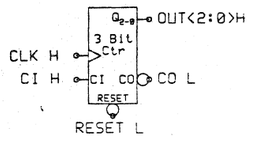
DRN: R. McNamara	DATE 13-NOV-83	ENG: R. McNamara	DATE 13-NOV-83
CHK'D: R. McNamara	DATE 13-NOV-83	SHEET 1 OF 1	
		NEXT HIGHER ASSEMBLY:	

TITLE: Divide By 12

SIZE	CODE	NUMBER	REV
D	05	M7605-0-12	B



1.4.1.1.2



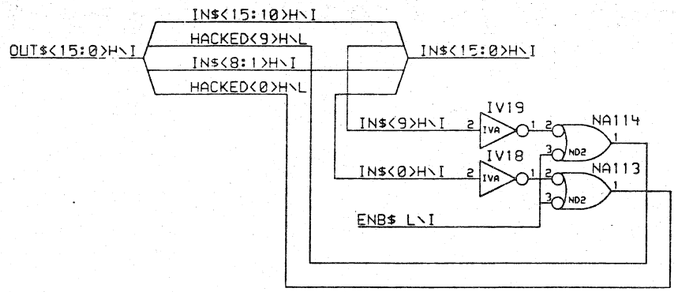
REVISION HISTORY		
REV	ECO NUMBER	DATE
B	M7605 MLO124 MD-87	

DRAWING
TITLE=3 BIT CTR
ABBREV=3BCTR
CIRCUIT←TYPE=3BITCTR
LAST←MODIFIED=Sat Oct 20 18:47:47 1984

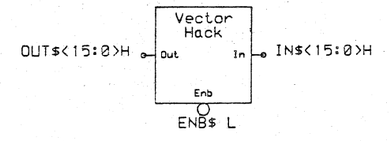
DEFINE
X←FIRST=0
X←STEP=SIZE

digital

DRN: R. McNamara	DATE 6-NOV-83	ENG: R. McNamara	DATE 6-NOV-83	TITLE: Synchronous 3 Bit Counter	
CHK'D: R. McNamara	DATE 6-NOV-83	SHEET 1 OF 1			
		NEXT HIGHER ASSEMBLY:		SIZE: D	CODE: CS
				NUMBER: M7605 -0 -3	REV: B



1.4.1.2



REVISION HISTORY

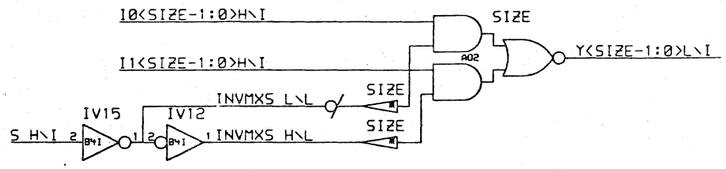
REV	ECO NUMBER	DATE
B	M7525 CSMILCO	[illegible]

DRAWING
TITLE=VECTOR HACK
ABBREV=VCTRHCK
LAST←MODIFIED=Wed Oct 10 19:16:56 1984

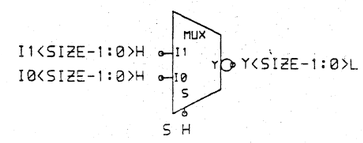
DEFINE
X←FIRST=0
X←STEP=SIZE

digital

DRN: R. McNamara	DATE 9-NOV-83	ENG: R. McNamara	DATE 9-NOV-83	TITLE: Vector Hack
CHK'D: R. McNamara	DATE 9-NOV-83	SHEET 1 OF 1		
		NEXT HIGHER ASSEMBLY:		SIZE D / CODE CS / NUMBER M7525 -0 -4 / REV B



1.4.1.2A



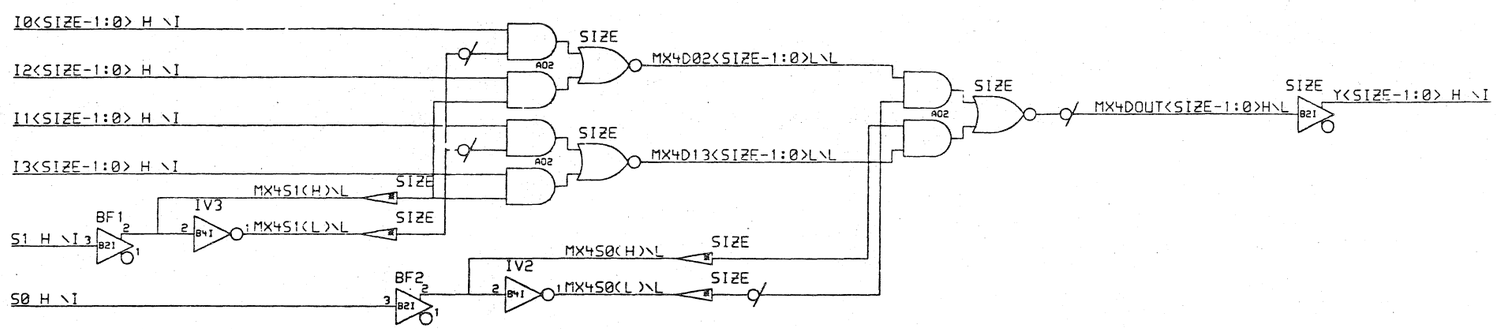
REVISION HISTORY		
REV	ECO NUMBER	DATE
B	M7526 MCO	MAY-84

DRAWING
TITLE=INV MUX
ABBREV=INVMX
LAST←MODIFIED=Wed Oct 10 19:20:46 1984

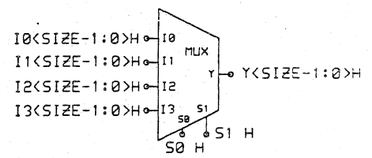
DEFINE
X←FIRST=0
X←STEP=SIZE

digital

DRN: R. McNamara	DATE 23-Jan-84	ENG: R. McNamara	DATE 23-Jan-84	TITLE: Inverting MUX Logic	
CHK'D: R. McNamara	DATE 23-Jan-84	SHEET 1 OF 1			
		NEXT HIGHER ASSEMBLY:		SIZE: D	CODE: CS
				NUMBER: M7526 -0 -5	REV: B



1.4.1.2B



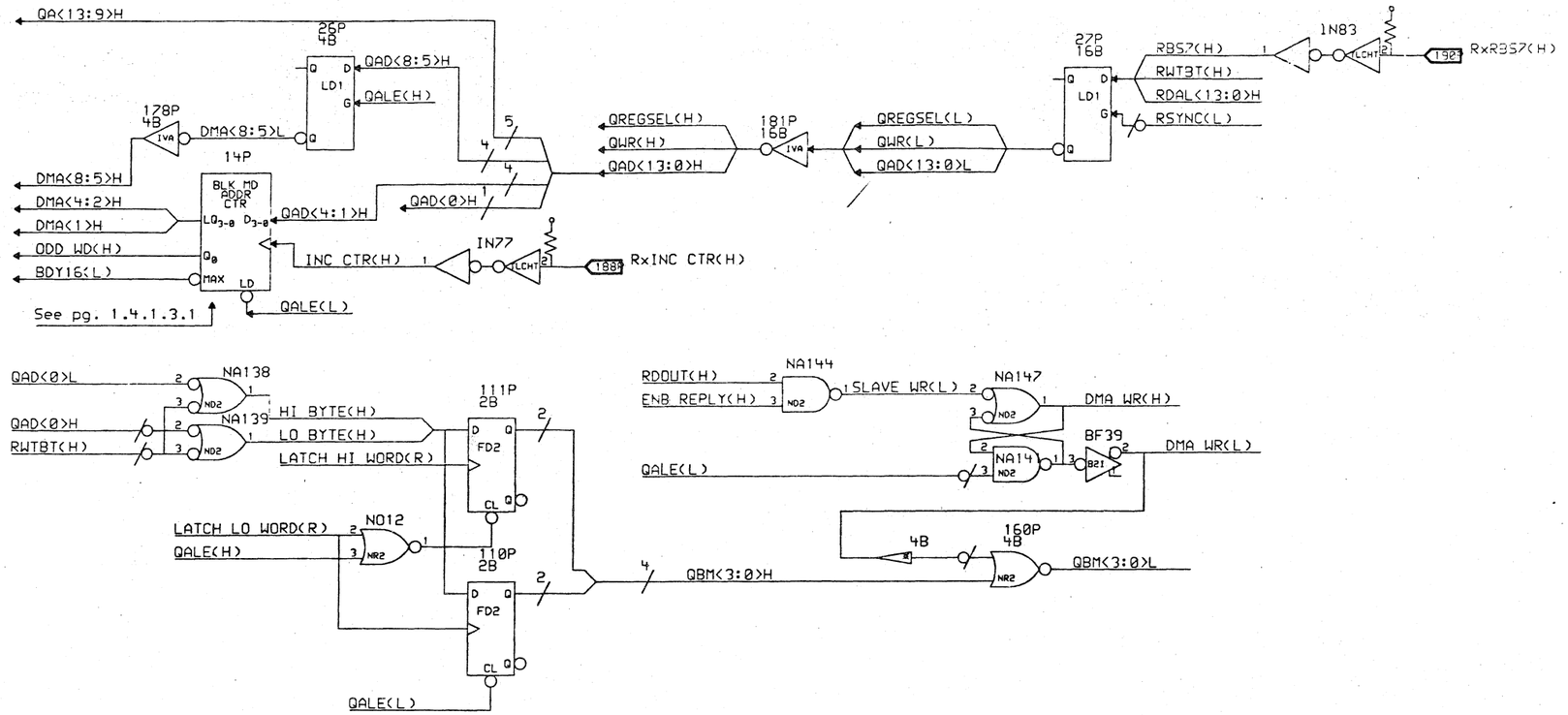
REVISION HISTORY			
REV	ECO NUMBER	DATE	
B	M7525 -0 -16	10-JAN-84	

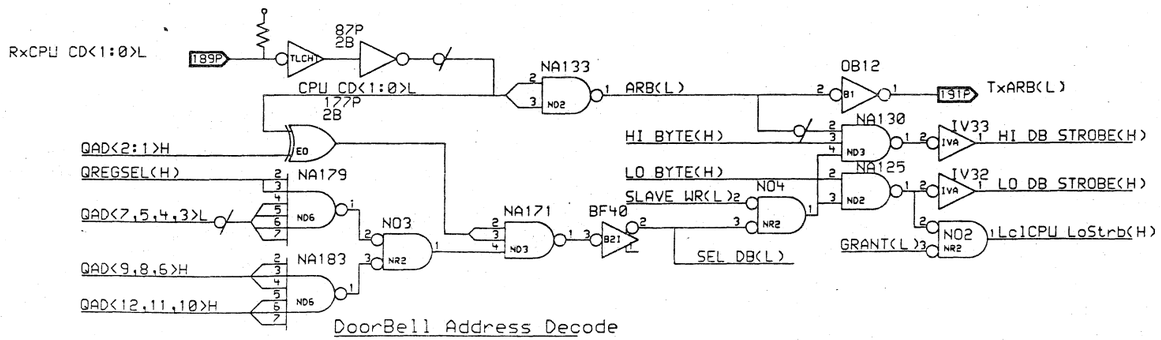
DRAWING
TITLE=4MUX
ABBREV=4MX
LAST←MODIFIED=Wed Oct 10 19:23:47 1984

DEFINE
X←FIRST=0
X←STEP=SIZE

digital

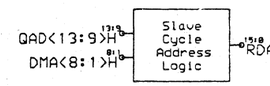
DRN: R. McNamara	DATE 10-JAN-84	ENG: R. McNamara	DATE 10-JAN-84	TITLE: 4 to 1 MUX	
CHK'D: R. McNamara	DATE 10-JAN-84	SHEET 1 OF 1			
		NEXT HIGHER ASSEMBLY:		SIZE D	CODE CS
				NUMBER M7525 -0 -16	REV B





DoorBell Address Decode

1.4.1.3

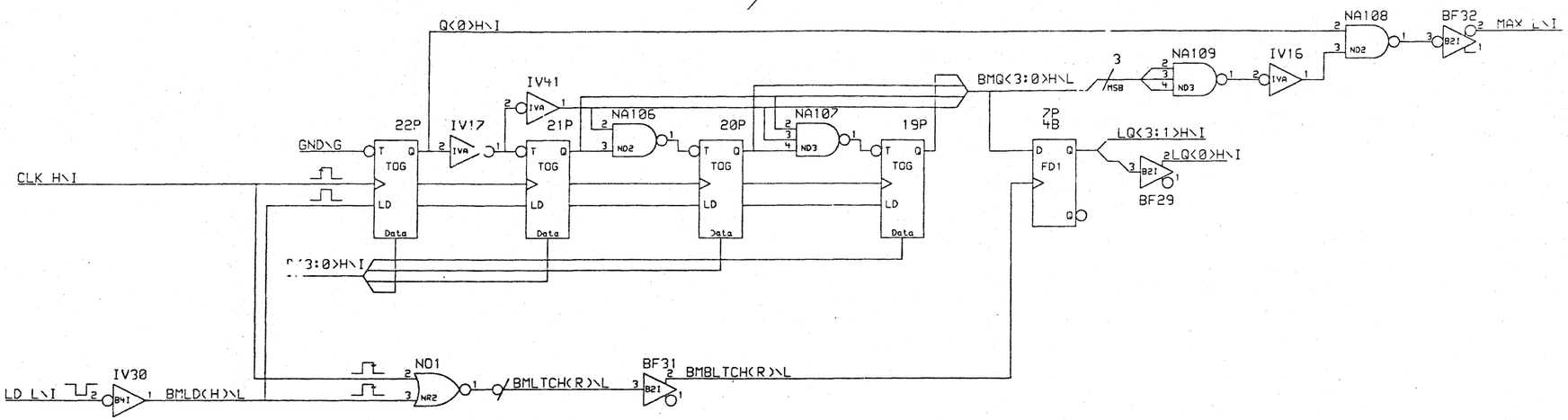


REVISION HISTORY		
REV	ECO NUMBER	DATE
B	M7505 [illegible]	[illegible]

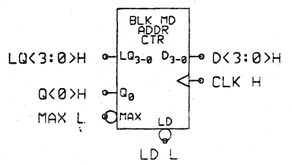
DRAWING
LAST←MODIFIED=Wed Oct 10 19:32:56 1984

digital

DRN: R. McNamara	DATE 16-NOV-83	ENG: R. McNamara	DATE 16-NOV-83	TITLE: Q-bus Support Logic	
CHK'D: R. McNamara	DATE 16-NOV-83	SHEET 1 OF 1			
		NEXT HIGHER ASSEMBLY:		SIZE D	CODE 05
				NUMBER M7505 -2 -17	REV B



1.4.1.3.1



REVISION HISTORY		
REV	ECO NUMBER	DATE
B	"7624-M021	24-AUG-83

DRAWING
TITLE=BLK MD CTR
ABBREV=BMCTR
CIRCUIT+TYPE=BLKMDCTR
LAST+MODIFIED=Wed Oct 10 19:28:01 1984

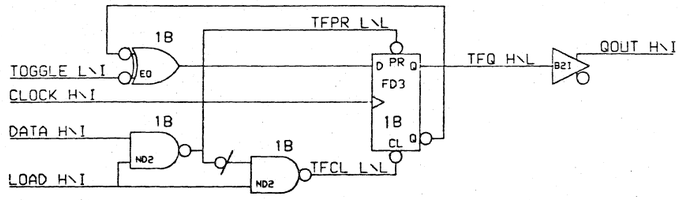
DEFINE
X+FIRST=0
X+STEP=SIZE

digital

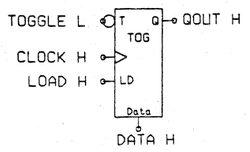
DRN: R. McNamara	DATE 6-NOV-83	ENG: R. McNamara	DATE 6-NOV-83
CHK'D: R. McNamara	DATE 6-NOV-83	SHEET 1 OF 1	
		NEXT HIGHER ASSEMBLY:	

TITLE: BLK MD CTR LOGIC

SIZE	CODE	NUMBER	REV
D	05	M7525-0-18	F



1.4.1.3.1.1



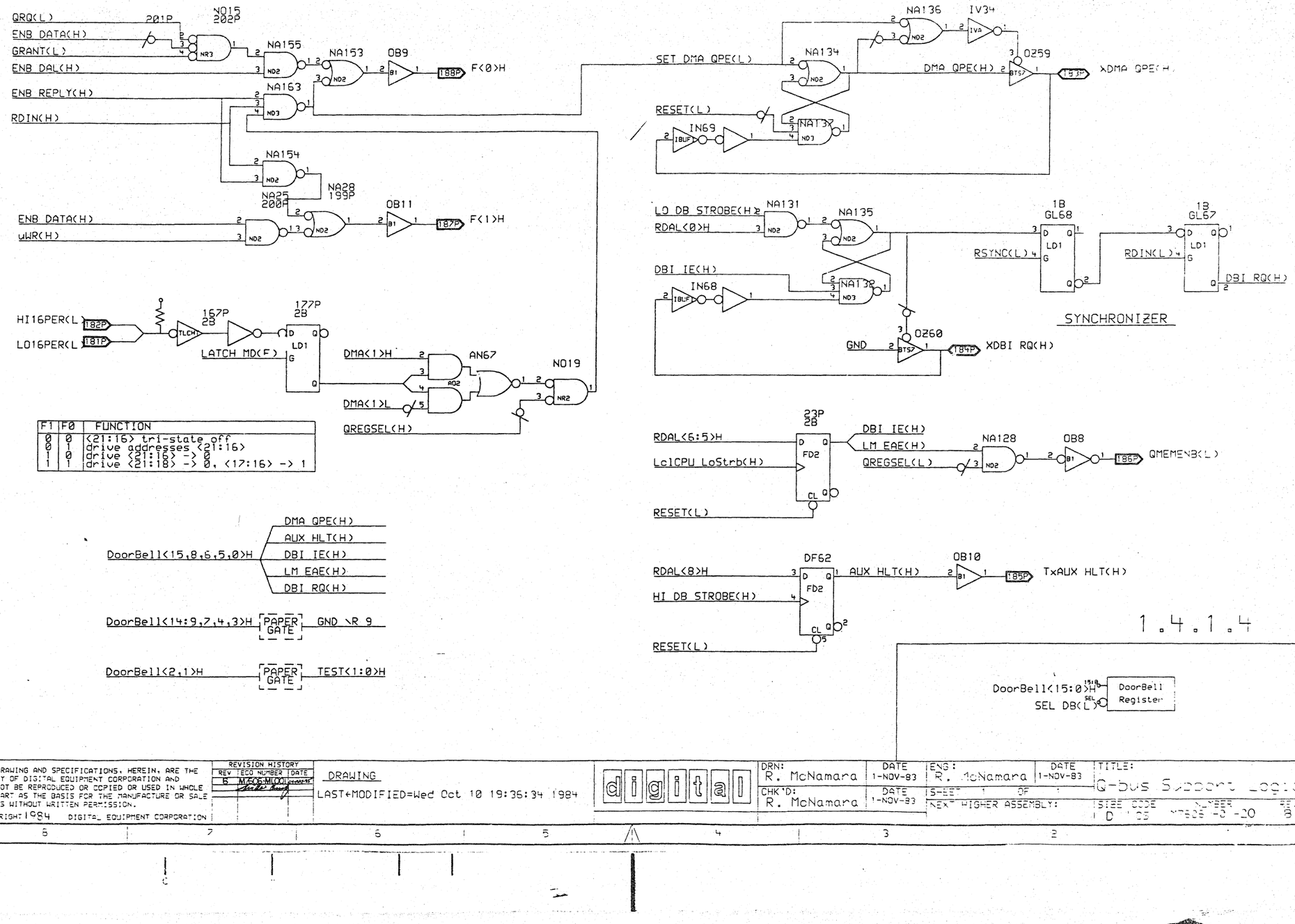
REVISION HISTORY		
REV	ECO NUMBER	DATE
A	M726-M001	14-MAR-84

DRAWING
TITLE=TOG
ABBREV=TOG
LAST←MODIFIED=Wed Oct 10 19:57:28 1984

DEFINE
X←FIRST=2
X←STEP=SIZE

digital

DRN: R. McNamara	DATE 6-NOV-83	ENG. R. McNamara	DATE 6-NOV-83	TITLE: TOGGLE FLOP
CHK'D: R. McNamara	DATE 6-NOV-83	SHEET 1 OF 1		
		NEXT HIGHER ASSEMBLY:		SIZE D CODE 25 NUMBER M726-MD-M19 REV. A



REVISION HISTORY

REV	ECO NUMBER	DATE
B	M4005-M1001	27-MAR-84

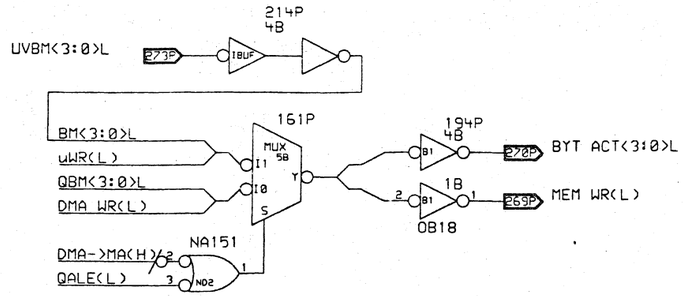
DRAWING

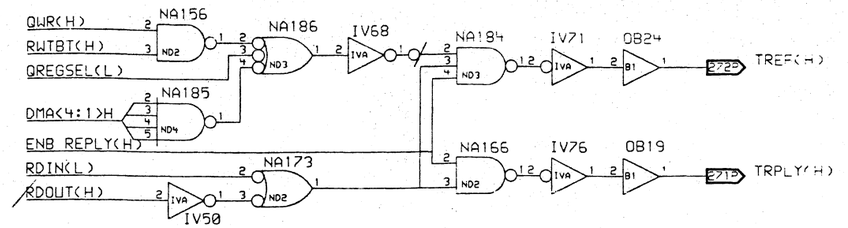
LAST←MODIFIED=Wed Oct 10 19:36:34 1984

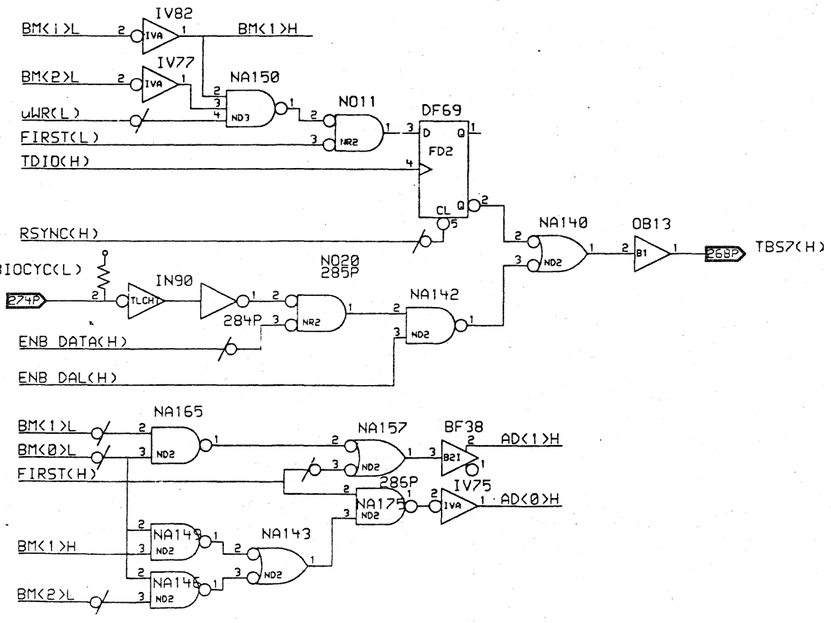
DRN: R. McNamara	DATE 1-NOV-83	ENG: R. McNamara	DATE 1-NOV-83
CHK'D: R. McNamara	DATE 1-NOV-83	SHEET 1 OF	
NEXT HIGHER ASSEMBLY:		SIZE CODE D	NUMBER M7605-0-20

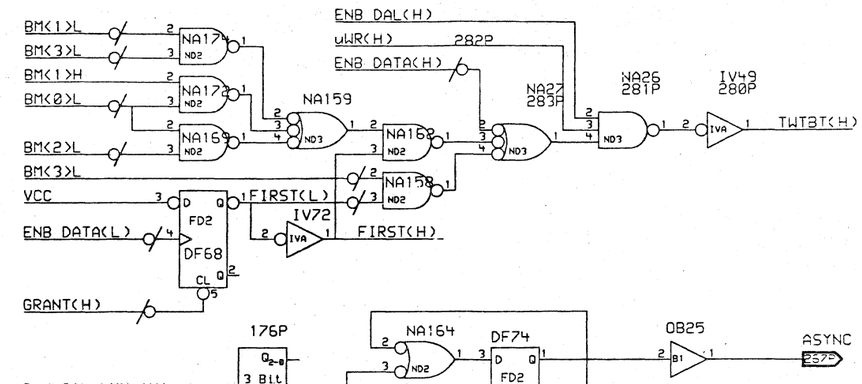
TITLE: G-Bus Support Logic

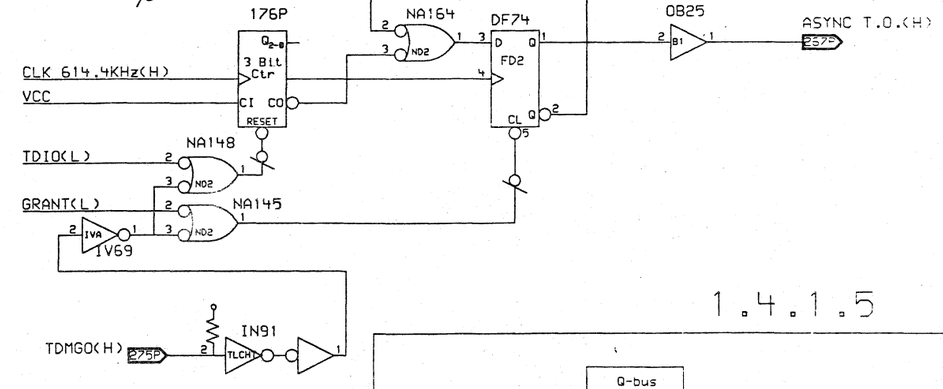
REV B











1.4.1.5

Q-bus Cycle Support Logic

AD<1:0>H

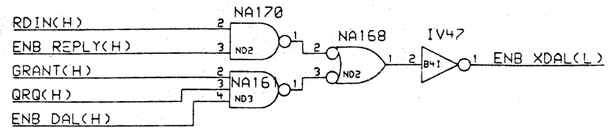
REVISION HISTORY		
REV	ECO NUMBER	DATE
B	M7500 M100	

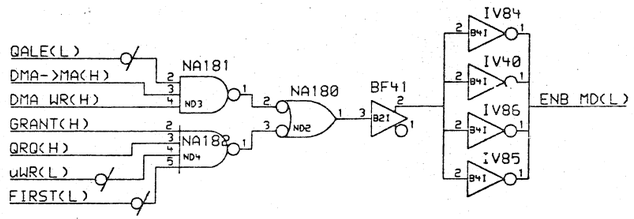
DRAWING

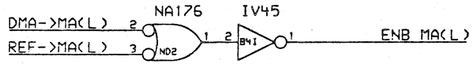
LAST MODIFIED=Wed Oct 10 19:53:46 1984

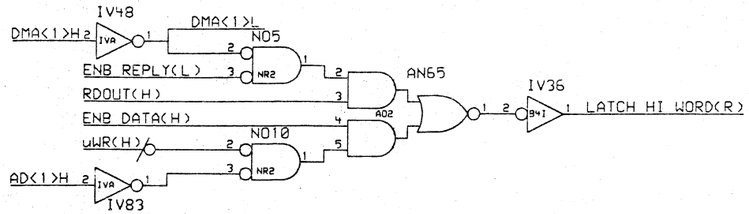
digital

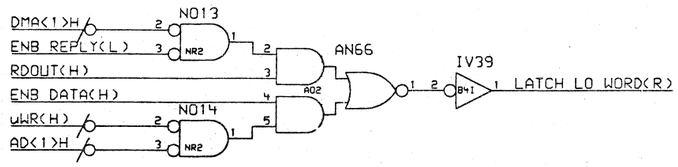
DRN: R. McNamara	DATE 21-OCT-83	ENG: R. McNamara	DATE 21-OCT-83	TITLE: Q-BUS SUPPORT LOGIC	
CHK'D: R. McNamara	DATE 21-OCT-83	SHEET 1 OF 1			
NEXT HIGHER ASSEMBLY:				SIZE D	CODE CS
				NUMBER M7500 -0 -21	REV B



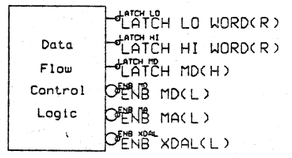








1.4.1.6

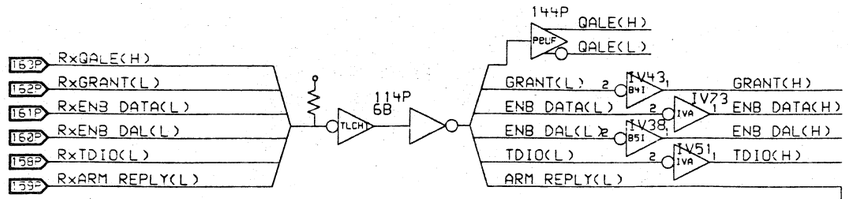


REVISION HISTORY		
REV	ECO NUMBER	DATE
B	M7605,M7606	04-APR-84

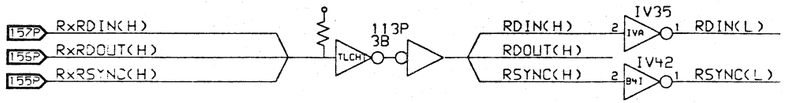
DRAWING

LAST←MODIFIED=Wed Oct 10 19:45:31 1984

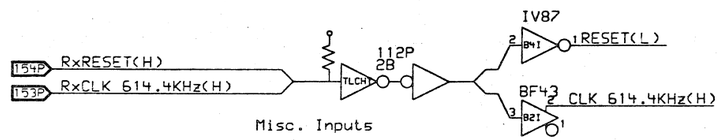
DRN: R. McNamara	DATE 09-NOV-83	ENG: R. McNamara	DATE 09-NOV-83	TITLE: Q-Bus Support Logic	
CHK'D: R. McNamara	DATE 09-NOV-83	SHEET 1 OF 1			
		NEXT HIGHER ASSEMBLY:		SIZE D	CODE DS
				NUMBER M7605 -0 -22	REV B



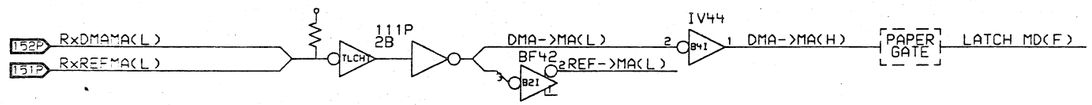
Inputs from Q-bus State Machines



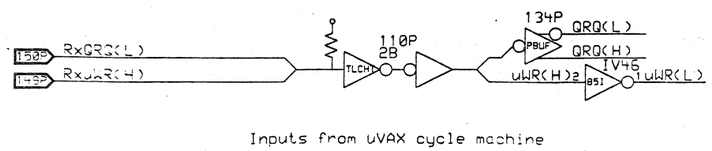
Q-bus Control Signal Inputs



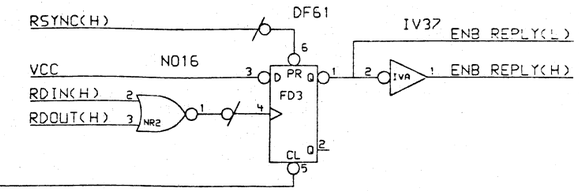
Misc. Inputs

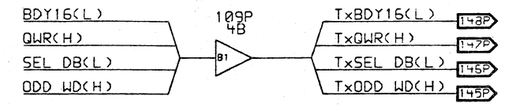


Inputs from Main Memory Controller



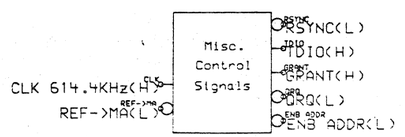
Inputs from uVAX cycle machine





Outputs to Q-bus State Machines

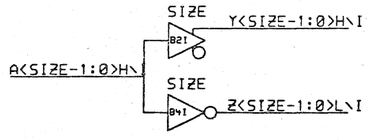
1.4.1.7



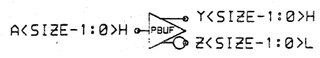
REVISION HISTORY		
REV	ECO NUMBER	DATE
B	M7625-M100	11-NOV-83

DRAWING
LAST MODIFIED=Wed Oct 12 19:49:41 1984

DRN: R. McNamara	DATE 11-NOV-83	ENG: R. McNamara	DATE 11-NOV-83	TITLE: Q-bus Support Logic	
CHK'D: R. McNamara	DATE 11-NOV-83	SHEET 1 OF 1			
		NEXT HIGHER ASSEMBLY:		SIZE D	CODE 05	NUMBER M7625-0-23	REV B



1.4.1.7.1



REVISION HISTORY		
REV	ECO NUMBER	DATE
B	MAS-6 MOD	27-MAY-83

DRAWING
TITLE=PBUF
ABBREV=PBUF
LAST←MODIFIED=Wed Oct 10 20:01:17 1984

DEFINE
X←FIRST=0
X←STEP=SIZE

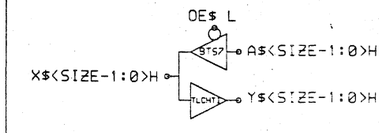
digital

DRN: R. McNamara	DATE 11-JAN-84	ENG: R. McNamara	DATE 11-JAN-84
CHK'D: R. McNamara	DATE 11-JAN-84	SHEET 1 OF 1	
		NEXT HIGHER ASSEMBLY:	

TITLE: Power Buffer Macro

SIZE	CODE	NUMBER	REV
D	CS	M7826 -0 -24	B

1.4.1.8

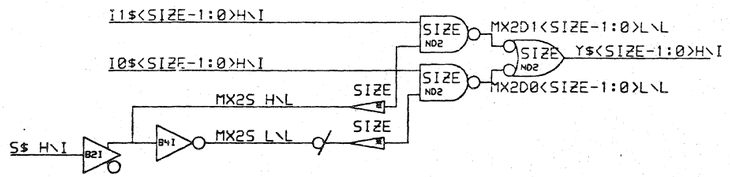


REVISION HISTORY		
REV	ECO NUMBER	DATE
B	M7526M00	

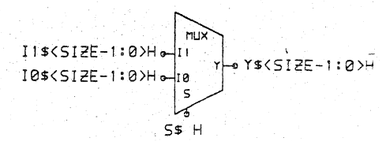
DRAWING
TITLE=BIDIRECT
ABBREV=BI
LAST←MODIFIED=Wed Oct 10 20:06:46 1984

DEFINE
X←FIRST=0
X←STEP=SIZE

DRN: R. McNamara	DATE 11-NOV-83	ENG: R. McNamara	DATE 11-NOV-83	TITLE: BIDIRECT BUFFER	
CHK'D: R. McNamara	DATE 11-NOV-83	SHEET 1 OF 1			
		NEXT HIGHER ASSEMBLY:		SIZE D	CODE CS
				NUMBER M7526 -0 -25	REV B



1.4.1.9



REVISION HISTORY		
REV	ECO NUMBER	DATE
A	MOVED MUX16	

DRAWING
TITLE=MUX16
ABBREV=MX16
LAST←MODIFIED=Wed Oct 10 20:09:42 1984

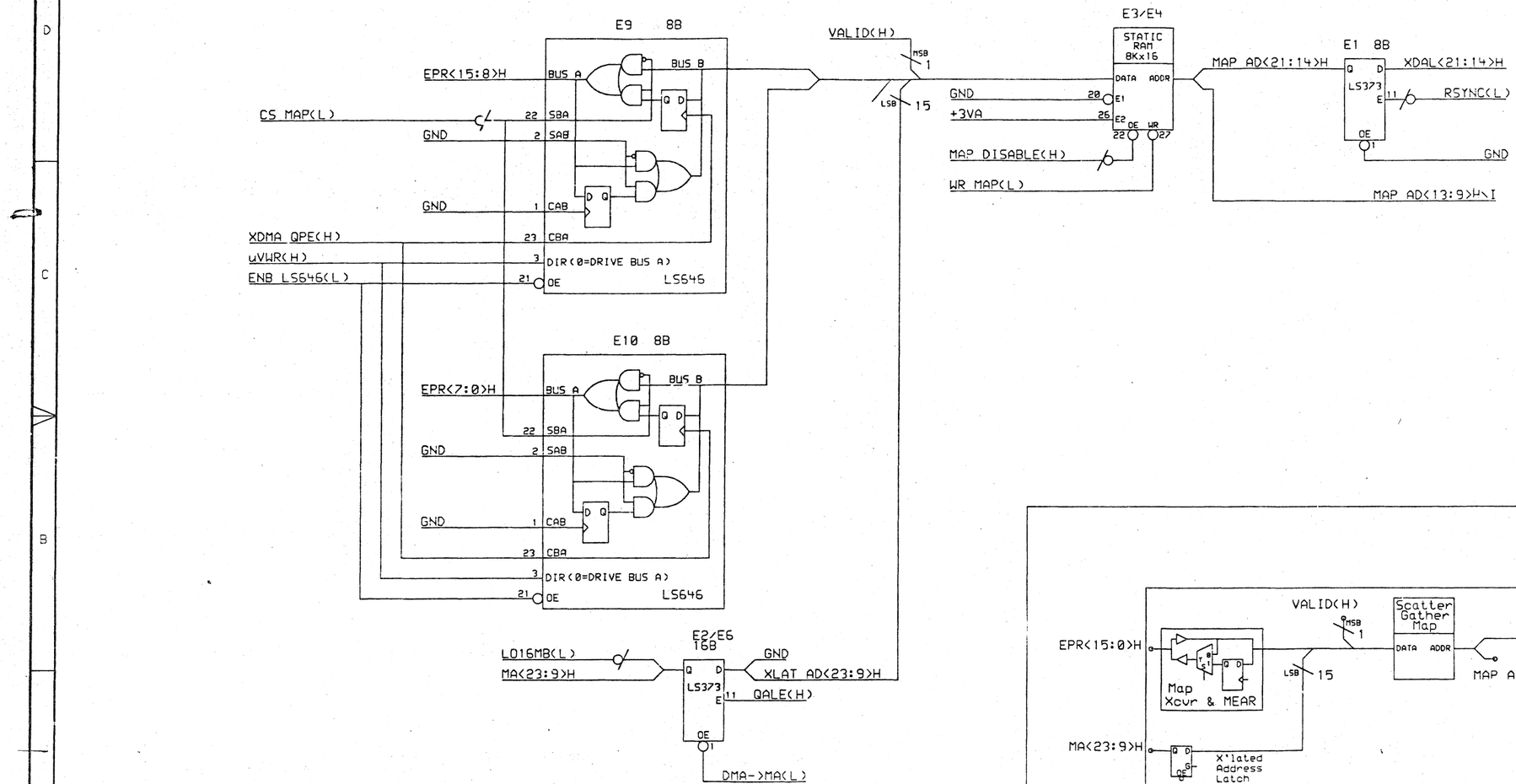
DEFINE
X←FIRST=0
X←STEP=SIZE

digital

DRN: R. McNamara	DATE 8-NOV-83	ENG: R. McNamara	DATE 8-NOV-83
CHK'D: R. McNamara	DATE 8-NOV-83	SHEET 1 OF 1	
		NEXT HIGHER ASSEMBLY:	

TITLE: MUX LOGIC

SIZE D | CODE 05 | NUMBER M7525 -2 -26 | REV E



1.5

REVISION HISTORY
REV | ECO NUMBER | DATE
3 MAP&MAOE1 7-MAR-84

DRAWING
TITLE=MAP GROUP
ABBREV=MAP
CIRCUIT=TYPE=TRANS=MAP
LAST=MODIFIED=Sun Oct 7 18:33:49 1984

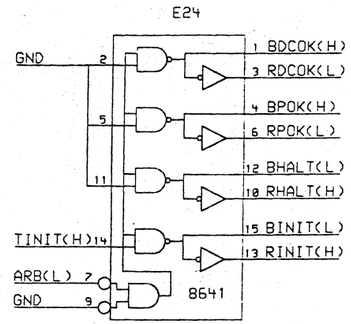
DEFINE
X=FIRST=0
X=STEP=SIZE

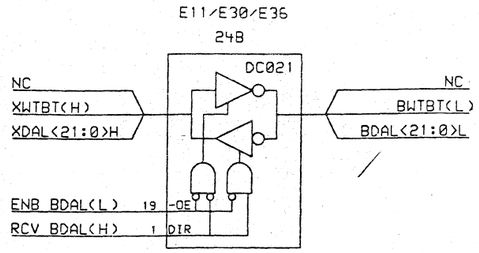
digital

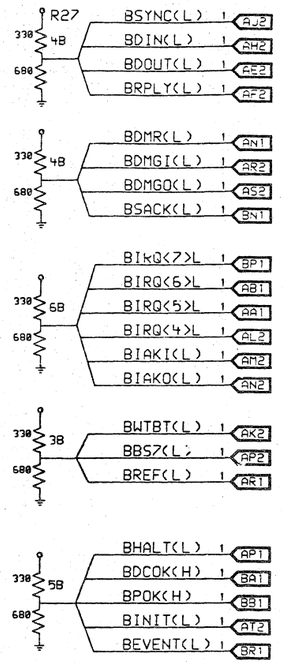
DRN: R. McNamara	DATE 3-OCT-84	ENG: R. McNamara	DATE 3-OCT-84
CHK'D: R. McNamara	DATE 3-OCT-84	SHEET 1 OF 1	
		NEXT HIGHER ASSEMBLY:	

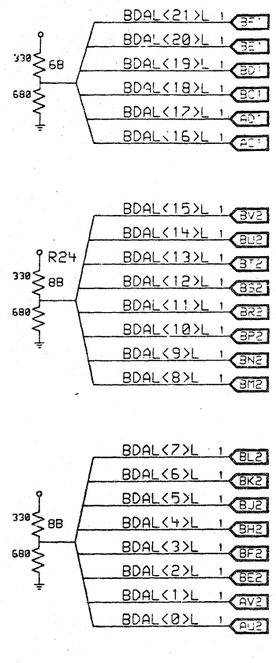
TITLE: Translation Map Group

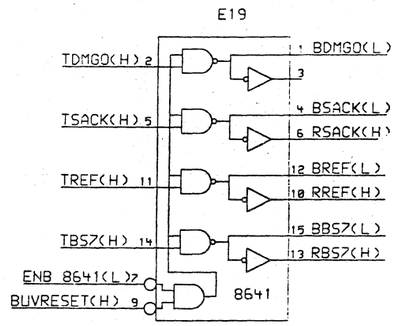
SIZE	CODE	NUMBER	REV
D	CS	M7605-0-27	B

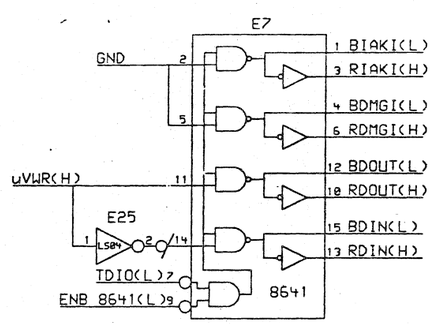


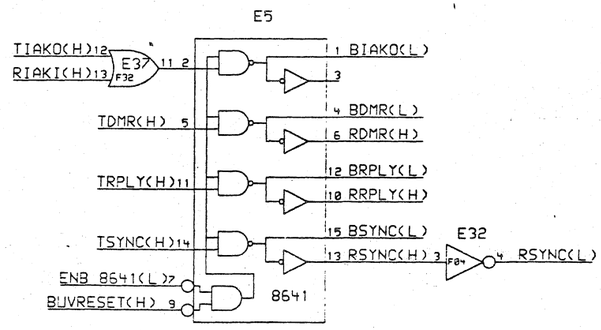


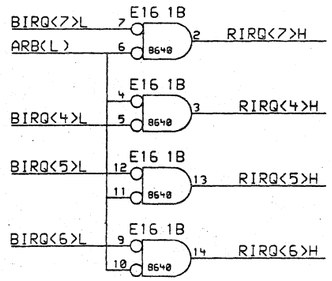


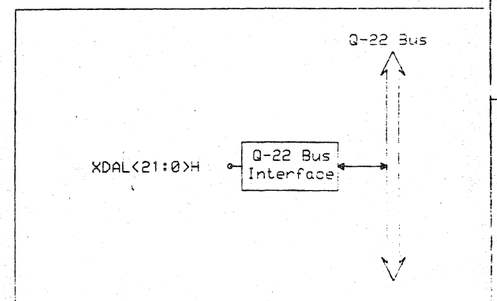












REVISION HISTORY

REV	ECO NUMBER	DATE
B	M7505 M7011	[illegible]

DRAWING
TITLE=QBUS
ABBREV=QBUS
CIRCUIT=TYPE=QBUS=INTERFACE
LAST=MODIFIED=Fri Oct 12 14:31:20 1984

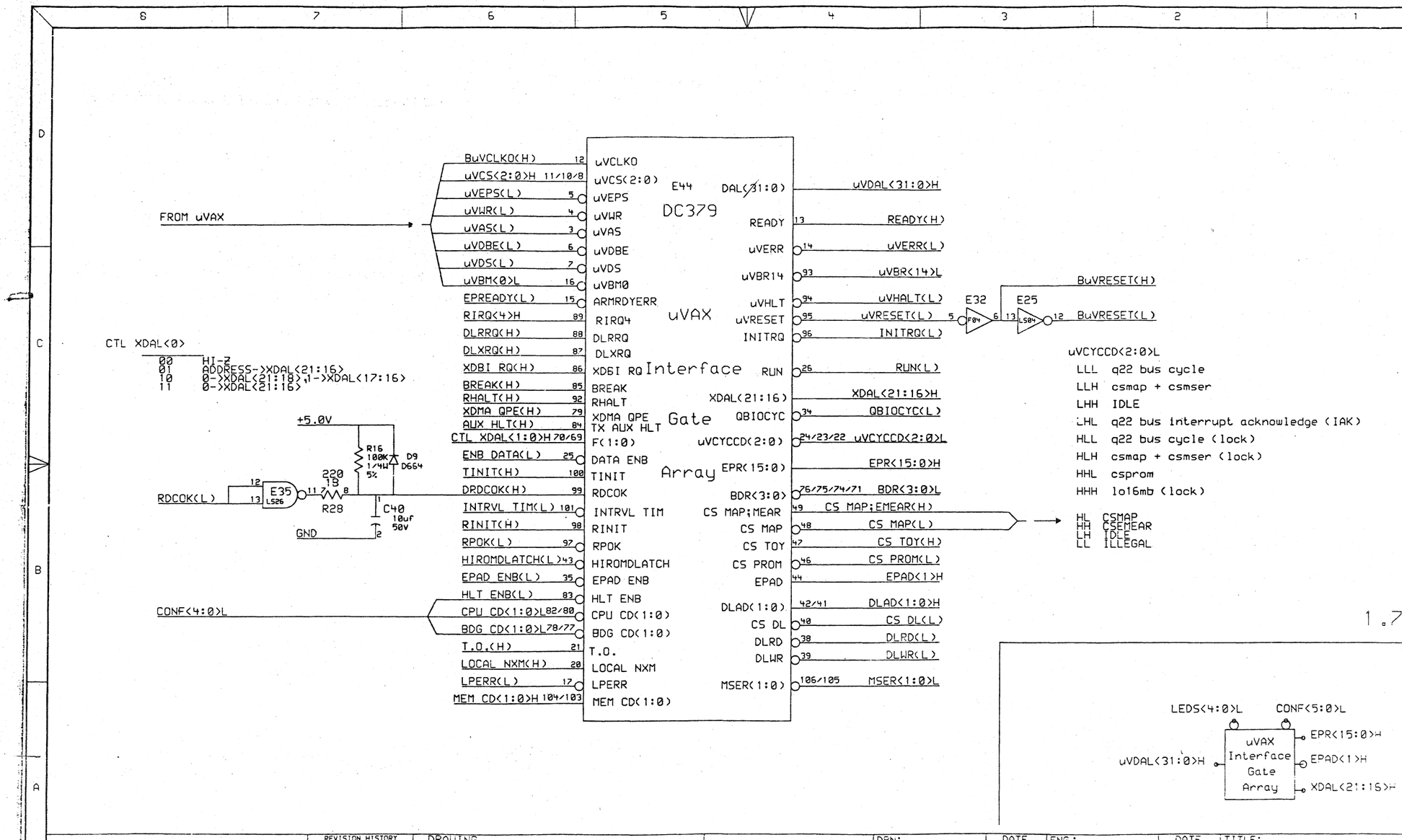
DEFINE
X=FIRST=0
X=STEP=SIZE

digital

DRN: R. McNamara	DATE 3-OCT-84	ENG: R. McNamara	DATE 3-OCT-84
CHK'D: R. McNamara	DATE 3-OCT-84	SHEET 1 OF 1	
		NEXT HIGHER ASSEMBLY:	

TITLE: KA630 QBUS INTERFACE

SIZE	CODE	NUMBER	REV
D	CS	M7505 -0 -28	B



REVISION HISTORY

REV	ECO NUMBER	DATE
B	MAS-M-0100	[illegible]

DRAWING
TITLE=GATOR1
ABBREV=GATOR1
CIRCUIT←TYPE=GATE←ARRAY
LAST←MODIFIED=Mon Oct 29 09:35:21 1984

DEFINE
X←FIRST=0
X←STEP=SIZE

digital

DRN: BARRY MASKAS	DATE 3-OCT-84	ENG: BARRY MASKAS	DATE 3-OCT-84
CHK'D: BARRY MASKAS	DATE 3-OCT-84	SHEET 1 OF 1	
		NEXT HIGHER ASSEMBLY:	

TITLE: uVAX Interface Gate Array

SIZE	CODE	NUMBER	REV.
D	CS	M7585 -2 -29	B

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
Q	72 vss	68 EPR0	64 EPR3	63 EPR4	61 EPR6	57 EPR10	56 EPR11	53 EPR12	51 EPR14	50 EPR15	47 CSTOY	44 EPAD1	42 DLAD1	39 DLWR	36 vss	Q
P	75 BDR2	71 BDR0	67 EPR1	65 EPR2	62 EPR5	59 EPR8	58 EPR9	52 EPR13	48 CSMAP	46 CSPROM	43	40 CSDL	38 DLRD	35 EPADENB	32 XD20	P
N	78 BDGCD1	74 BDR1	70 CTL XDAL 1	69 CTL XDAL 0	66 NC	60 EPR7	55 vss	54 vdd	49	45 vss	41 DLAD0	37 vdd	34 QBIOCYC	31 XD19	28 XD17	N
M	80 CPUCD0	76 BDR3	73 vdd										33 XD21	29 XD18	27 XD16	M
L	83 HLTENB	79 XDMA QPE	77 BDG_D0										30 vss	26 RUN	25 ENBDATA	L
K	86 XDBIRQ	82 CPUCD1	81 vss										24 uVCYCD2	23 UVCYCCD1	21 T.O.	K
J	87 DLXRQ	84 TXAUXHLT	85 BREAK										19 vss	22 uVCYCCD0	20 LOCALNXM	J
H	89 RIRQ4	88 DLRRQ	90 vdd										18 vdd	16 uVBM0	17 LPERR	H
G	92 RHALT	94 uVHALT	91 vss										13 READY	12 BuVCLKO	15 ARMRDYERR	G
F	93 uVBR14	95 UVRESET	96 INITRQ										9 vss	10 uVCS1	14 uVERR	F
E	97 RPOK	98 RINIT	102 vss										5 uVEPS	7 uVDS	11 uVCS2	E
D	99 DCOK	101 INTRVL TIM	105 MSER0										1 vdd	4 uVWR	8 uVCS0	D
C	100 TINIT	103 MEMCD0	106 MSER1	109 vdd	113 uVDAL4	117 vss	121 uVDALJ1	126 vdd	127 vss	132 uVDAL20	138 vss	141 uVDAL28	142 uVDAL29	2 uVDAL31	6 uVDBE	C
B	104 MEMCD1	107 uVDAL0	110 uVDAL1	112 uVDAL3	115 uVDAL6	118 uVDAL8	120 uVDALJ0	124 uVDALJ4	130 uVDALJ8	131 uVDALJ9	134 uVDAL22	137 uVDAL25	139 uVDAL26	143 uVDAL30	3 uVAS	B
A	108 vss	111 uVDAL2	114 uVDAL5	116 uVDAL7	119 uVDAL9	122 uVDALJ2	123 uVDALJ3	125 uVDALJ5	128 uVDALJ6	129 uVDALJ7	133 uVDAL21	135 uVDAL23	136 uVDAL24	140 uVDAL27	144 vss	A
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

stand off

stand off

stand off

stand off

extra pin

HIROMDLATCH

CSMAP;EMEAR

Footprint

Side 1/top view

LSI5320

144 pin grid

DC379

MICROVAX Interface

Gate array

REVISION HISTORY		
REV	ECO NUMBER	DATE
B	M7505M0001	

DRAWING
TITLE=galpads
LAST←MODIFIED=Mon Oct 29 11:47:47 1984

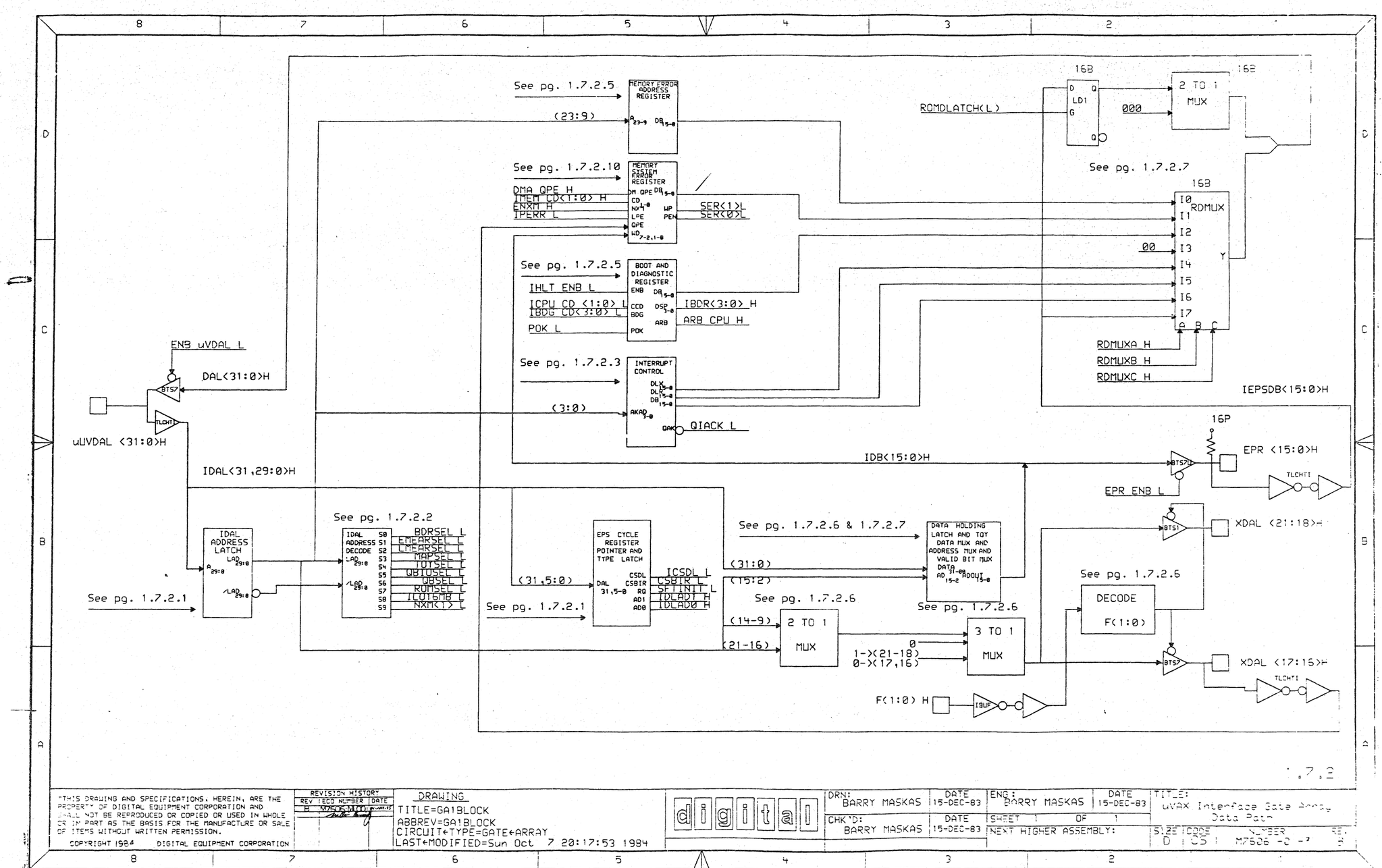
DEFINE
X←FIRST=0
X←STEP=SIZE

digital

DRN: BARRY MASKAS	DATE	ENG: BARRY MASKAS	DATE 15-DEC-83
CHK'D: BARRY MASKAS	DATE	SHEET 1 OF 1	
		NEXT HIGHER ASSEMBLY:	

TITLE: DC379 PAD ASSIGNMENT TOP VIEW
LL5320 IN 144 PIN GRID ARRAY

SIZE	CODE	NUMBER	REV
D	CS	M7505 -0 -30	B



1.7.2

REVISION HISTORY

REV	ECO NUMBER	DATE
E	M7506-0110	07-MAY-84

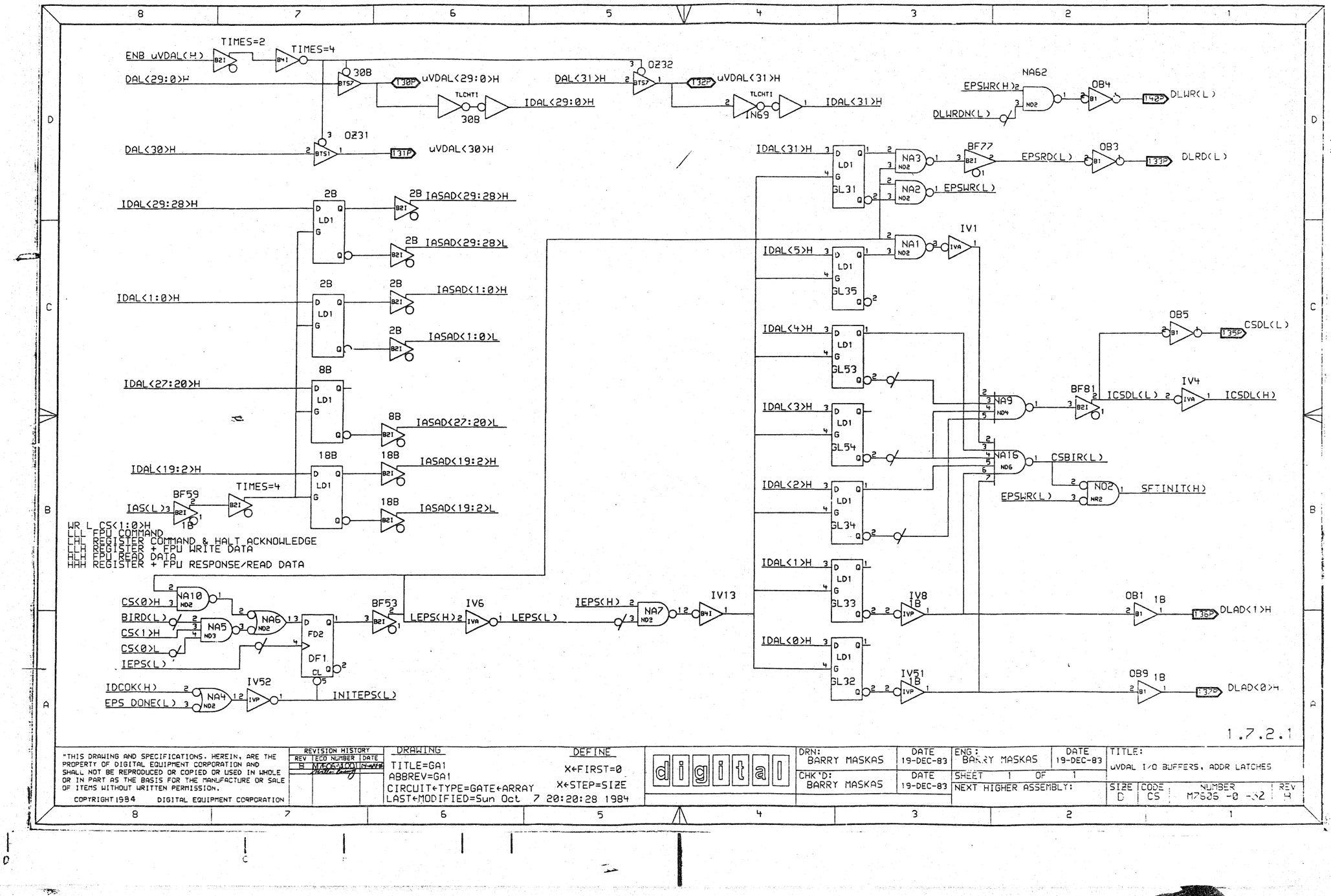
DRAWING
TITLE=GA1BLOCK
ABBREV=GA1BLOCK
CIRCUIT←TYPE=GATE←ARRAY
LAST←MODIFIED=Sun Oct 7 20:17:53 1984

digital

DRN: BARRY MASKAS	DATE 15-DEC-83	ENG: BARRY MASKAS	DATE 15-DEC-83
CHK'D: BARRY MASKAS	DATE 15-DEC-83	SHEET 1 OF 1	NEXT HIGHER ASSEMBLY:

TITLE: uVAX Interface Gate Array Data Path

SIZE	CODE	NUMBER	REV
D	CS	M7506-0 -?	E



1.7.2.1

REVISION HISTORY		
REV	ECO NUMBER	DATE
B	MAC0300	04-NOV

DRAWING
TITLE=GA1
ABBREV=GA1
CIRCUIT←TYPE=GATE←ARRAY
LAST←MODIFIED=Sun Oct 7 20:20:28 1984

DEFINE
X←FIRST=0
X←STEP=SIZE

digital

DRN: BARRY MASKAS	DATE 19-DEC-83	ENG: BARRY MASKAS	DATE 19-DEC-83	TITLE: uVDAL I/O BUFFERS, ADDR LATCHES
CHK'D: BARRY MASKAS	DATE 19-DEC-83	SHEET 1 OF 1		
		NEXT HIGHER ASSEMBLY:		SIZE D | CODE CS | NUMBER M7525 -0 -X2 | REV B

uVCYCCD<2:0>L
LLL Q22 BUS CYCLE
LLH CSMAP + CSMSER
LHH IDLE
LHL Q22 BUS IAK
HLL Q22 BUS CYCLE LOCK
HLH CSMAP + CSMSER LOCK
HHL CSPROM
HHH LO16MB LOCK

NA92 ND6 ILO16MB(L)
IASAD<29>L IASAD<28>L IASAD<27>L IASAD<25>L IASAD<26>L IASAD<24>L

NA100 ND8 QBRAMSEL(L)
IASAD<29>H IASAD<28>H IASAD<27>L IASAD<25>L IASAD<26>L IASAD<24>L IASAD<23>L IASAD<22>L

NA142 ND6 IV50 B41
IASAD<29>H IASAD<28>H IASAD<27>L IASAD<25>L IASAD<26>L IASAD<24>L

NA122 ND4 IV49 B51
IASAD<23>L IASAD<22>L IASAD<21>L IASAD<20>L

NA189 ND6 IV106 B41
IASAD<18>L IASAD<17>L IASAD<16>L IASAD<15>L IASAD<14>L IASAD<13>L

NA134 ND4 IV103 IVA
IASAD<18>L IASAD<17>L IASAD<16>L IASAD<15>H

NA183 ND6 IV85 IVA
IASAD<18>L IASAD<17>H IASAD<16>H IASAD<15>H IASAD<14>L IASAD<13>L

NA135 ND6 IV108 B41
IASAD<12>L IASAD<11>L IASAD<10>L IASAD<9>L IASAD<8>L IASAD<7>L

NA129 ND6 IV101 IVA
IASAD<2>L IASAD<1>H IASAD<6>L IASAD<5>L IASAD<4>L IASAD<3>L

NA124 ND6 IV100 IVA
IASAD<6>L IASAD<5>L IASAD<4>L IASAD<3>H IASAD<19>H BIWR(L)

NA191 ND6 IV98 IVA
IASAD<19>H IASAD<6>L IASAD<5>L IASAD<4>L IASAD<3>L IASAD<2>H

NA128 ND4 IV102 IVA
IASAD<19>L IASAD<18>H IASAD<17>L BIWR(L)

NA48 ND6 BF165 B21 BDRSEL(L)
ENBPATH(H)

NO9 NR2 IV37 IVA RMSERSEL(L)
ENBPATH(L2)

NA29 ND6 NA121 ND2 MSERSEL(H)
BIWR(L)

NA207 ND6 BF99 B21 WMSERSEL(L)
BIRD(L)

NA186 ND6 LMEARSEL(L)
IASAD<2>L

NA120 ND2 MEARSEL(H)

NA25 ND6 EMEARSEL(L)
IASAD<2>H

NA22 ND4 BF159 B21 MAPSEL(L)
IASAD<19>H

BF175 B21 MAPSEL(H)

NA190 ND6 BF160 B21 TOYSEL(L)
IASAD<19>H
VDD

IV114 IVA TOYSEL(H)

NA184 ND4 QBIOSEL(L)
IASAD<19>L

NA11 ND3 BF182 B21 ROMSEL(L)
IASAD<16>L

NA80 ND2 HLTROMSEL(L)

0000 0000 - 00FF FFFF ILO16MB
2000 0000 - 2000 1FFF QBIOSEL
2004 0000 - 2004 FFFF HLTROMSEL
2005 0000 - 2005 FFFF ROMSEL
2000 0000 + 2000 0003 BDRSEL
2008 0004 - 2008 0007 MSERSEL
2008 0009 - 2008 000B LMEARSEL
2008 000C - 2008 000F EMEARSEL
2008 0010 - 2008 0017 MAPSEL
2008 0020 - 2008 0027 TOYSEL
3000 0000 - 303F FFFF QBRAMSEL

NA182 ND4 IV20 IVP OB26 B1 151P uVCYCCD<0>L
QBRAMSEL(L) QIACK(L)

NA188 ND4 IV19 IVP OB27 B1 193P uVCYCCD<1>L
QBRAMSEL(L)

NA147 ND4 NA187 ND2 OB25 B1 182P uVCYCCD<2>L
BIWR(L) CS<0>H CS<2>H CS<1>L LOCK(L)

BF164 B21 OB15 B1 180P QBIOCYC(L)

NA28 ND2 IV36 IVA QBSEL(H) QBSEL(L)
QBRAMSEL(L)

IL016MB(L) ROMSEL(L) TOYSEL(L) BDRSEL(L) MEARSEL(L) MSERSEL(L) MAPSEL(L) QBSEL(L)
NA208 ND8 IV94 IVA MEARSEL(H) IV95 IVA MSERSEL(H)
BIDS(L) ENBPATH(L) NO54 NR3 NXM<1>H

IEPRDY(L) NO35 NR2 NXM<0>H
EXTNXM(L)
NA76 ND3 NA87 ND2 IV28 IVA
NA141 ND2 ILO16MB(L) QBSEL(L)
ENXM(H) ENBPATH(H) TIMEMSP(H)
QBTO(H) QIACK(L) QBSEL(L)
NA137 ND2 NA99 ND2

1.7.2.2

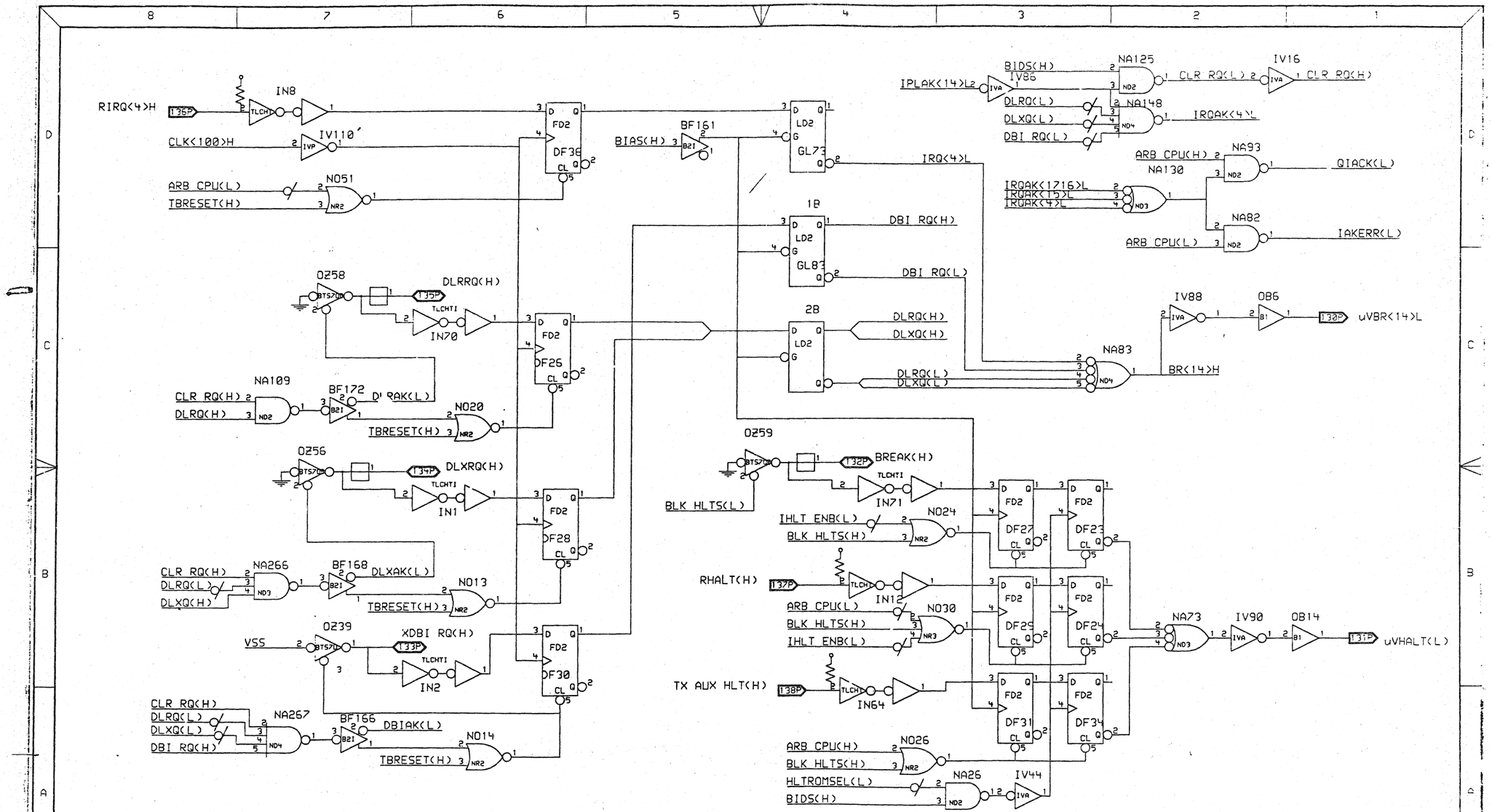
REVISION HISTORY
REV | ECO NUMBER | DATE
B | M7500-MLO0x-xB | [illegible]

DRAWING
TITLE=GA1
ABBREV=GA1
CIRCUIT=TYPE=GATE=ARRAY
LAST=MODIFIED=Sun Oct 7 16:34:28 1984

digital

DRN: BARRY MASKAS	DATE 19-DEC-83	ENG: BARRY MASKAS / DATE 19-DEC-83
CHK'D: BARRY MASKAS	DATE 19-DEC-83	SHEET 1 OF 1
NEXT HIGHER ASSEMBLY:		SIZE D / CODE CS / NUMBER M7500 -0 -33 / REV E

TITLE: ADDRESS DECODER

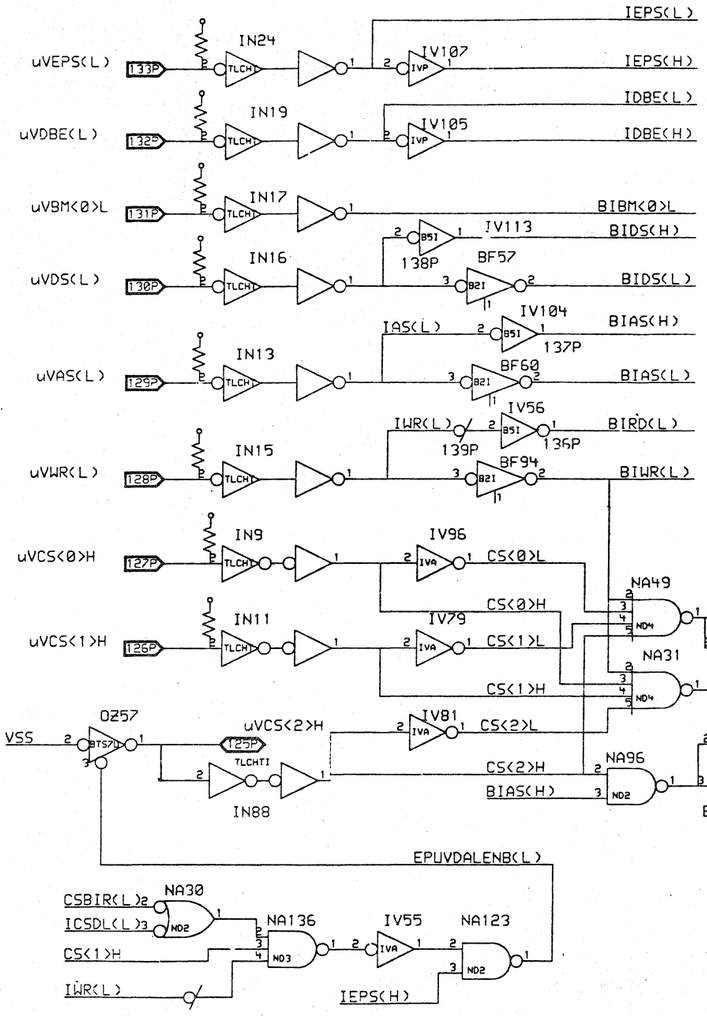


REVISION HISTORY		
REV	ECO NUMBER	DATE
B	M7506-ALOO1	[illegible]

DRAWING
TITLE=GA1
ABBREV=GA1
CIRCUIT←TYPE=GATE←ARRAY
LAST←MODIFIED=Sun Oct 7 16:40:03 1984

digital

DRN: BARRY MASKAS	DATE 18-DEC-83	ENG: BARRY MASKAS	DATE 18-DEC-83	TITLE: EXCEPTIONS AND INTERRUPTS
CHK'D: BARRY MASKAS	DATE 18-DEC-83	SHEET 1 OF 1		
		NEXT HIGHER ASSEMBLY:	SIZE D / CODE CS	NUMBER M7506 -0 -3[illegible] / REV [illegible]



IWR L CS<2:0>H

HLHH INTERRUPT ACKNOWLEDGE
HHLL READ (I-STREAM/PREFETCH)
HHLH READ (LOCK)
HHHL READ (D-STREAM)
HHHH READ (D-STREAM)
LHLH WRITE UNLOCK

1.7.2.4

REVISION HISTORY

REV	ECO NUMBER	DATE
A	M7626-4100	04-NOV-83

DRAWING
TITLE=GA1
ABBREV=GA1
CIRCUIT=TYPE=GATE=ARRAY
LAST=MODIFIED=Sat Oct 20 18:44:09 1984

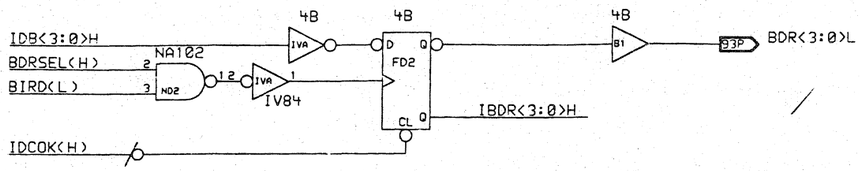
digital

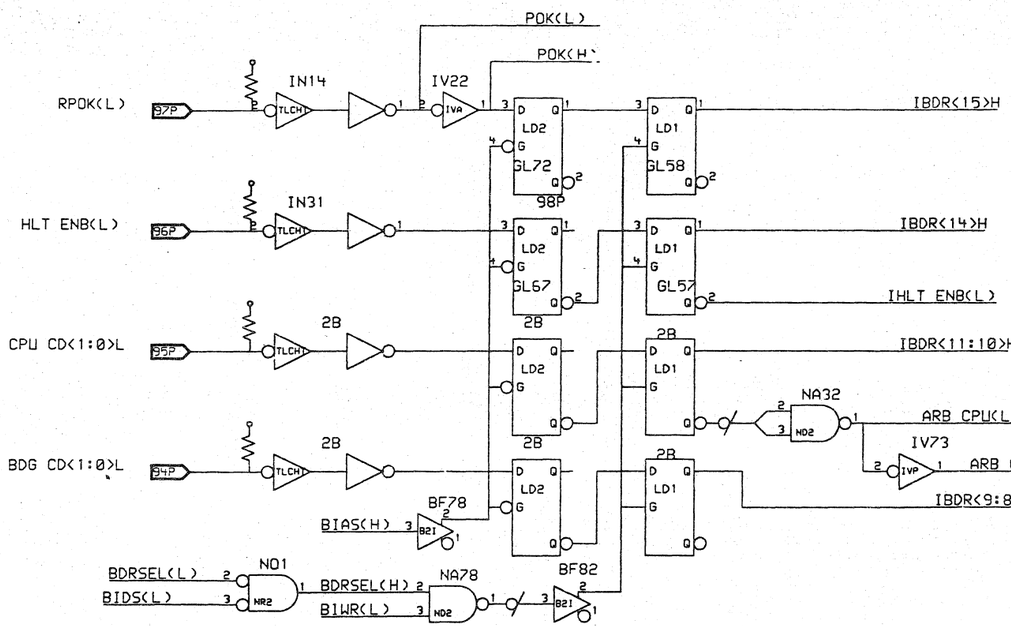
DRN: BARRY MASKAS	DATE 19-DEC-83	ENG: BARRY MASKAS	DATE 19-DEC-83
CHK'D: BARRY MASKAS	DATE 19-DEC-83	SHEET 1 OF 1	
		NEXT HIGHER ASSEMBLY:	

TITLE: uVAX INPUTS AND I/O PINS

SIZE	CODE	NUMBER	REV
D	CS	M7626 -0 -35	E

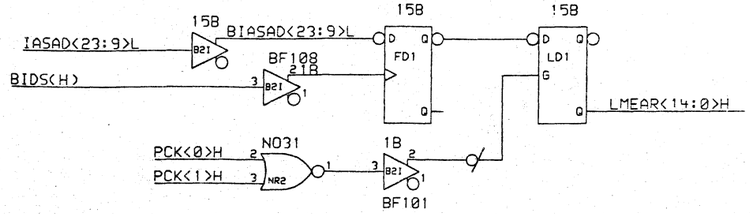
BOOT AND DIAGNOSTIC REGISTER





00 ARBITOR
01 AUX CPU 1
10 AUX CPU 2
11 AUX CPU 3

MEMORY ERROR ADDRESS REGISTER



1.7.2.5

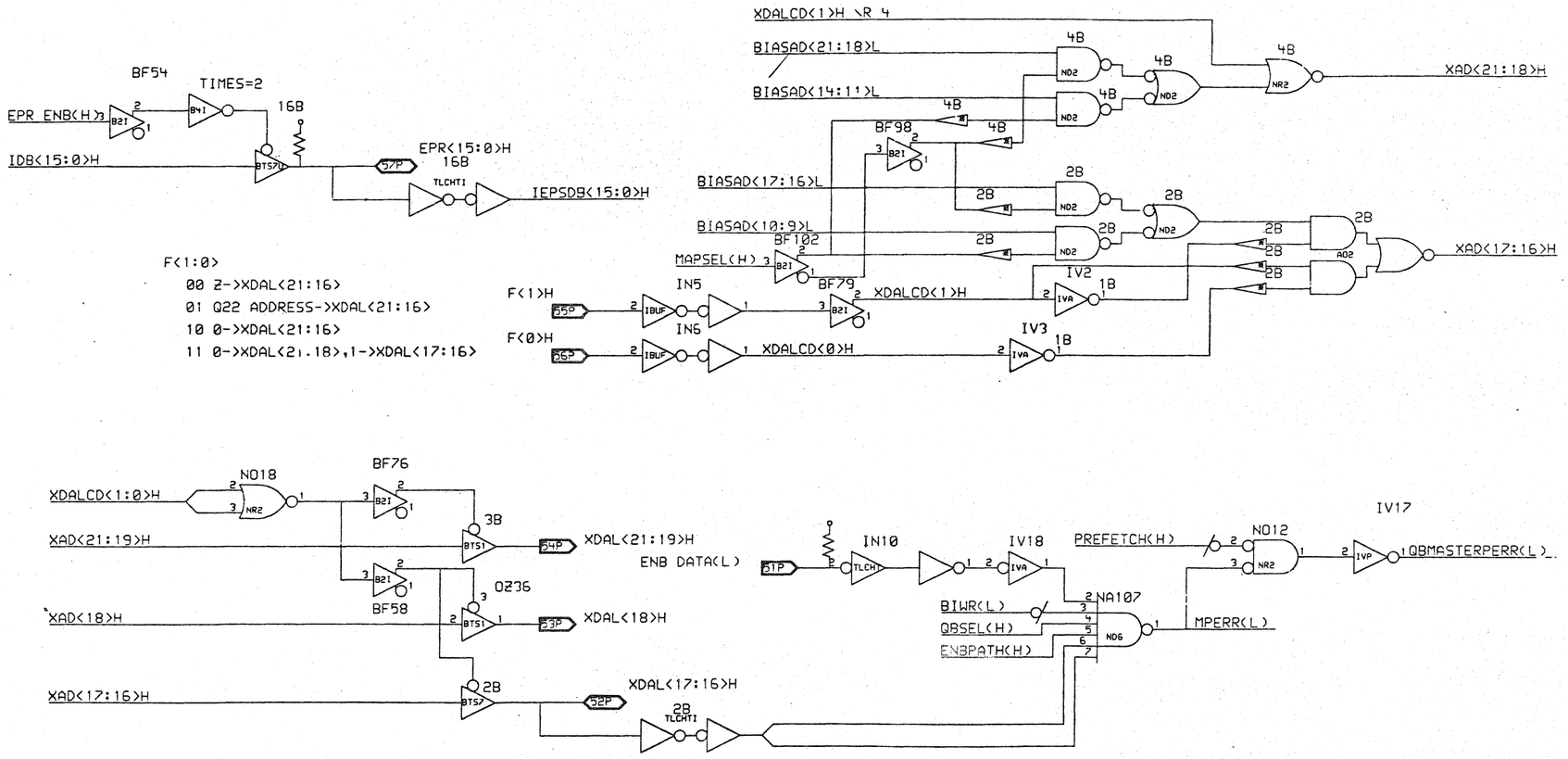
REVISION HISTORY

REV	ECO NUMBER	DATE
A	[illegible]	[illegible]

DRAWING
TITLE=GA1
ABBREV=GA1
CIRCUIT=TYPE=GATE=ARRAY
LAST=MODIFIED=Sun Oct 7 16:53:31 1984

digital

DRN: BARRY MASKAS	DATE 18-DEC-83	ENG: BARRY MASKAS	DATE 18-DEC-83	TITLE: BOOT/DIAG REG., MEM ERR ADDR REG.	
CHK'D: BARRY MASKAS	DATE 18-DEC-83	SHEET 1 OF 1			
		NEXT HIGHER ASSEMBLY:		SIZE D / CODE CS / NUMBER M7605 -0 -36	REV B



1.7.2.5

REVISION HISTORY		
REV	ECO NUMBER	DATE
A	M7506-ML-001	09-MAY-84

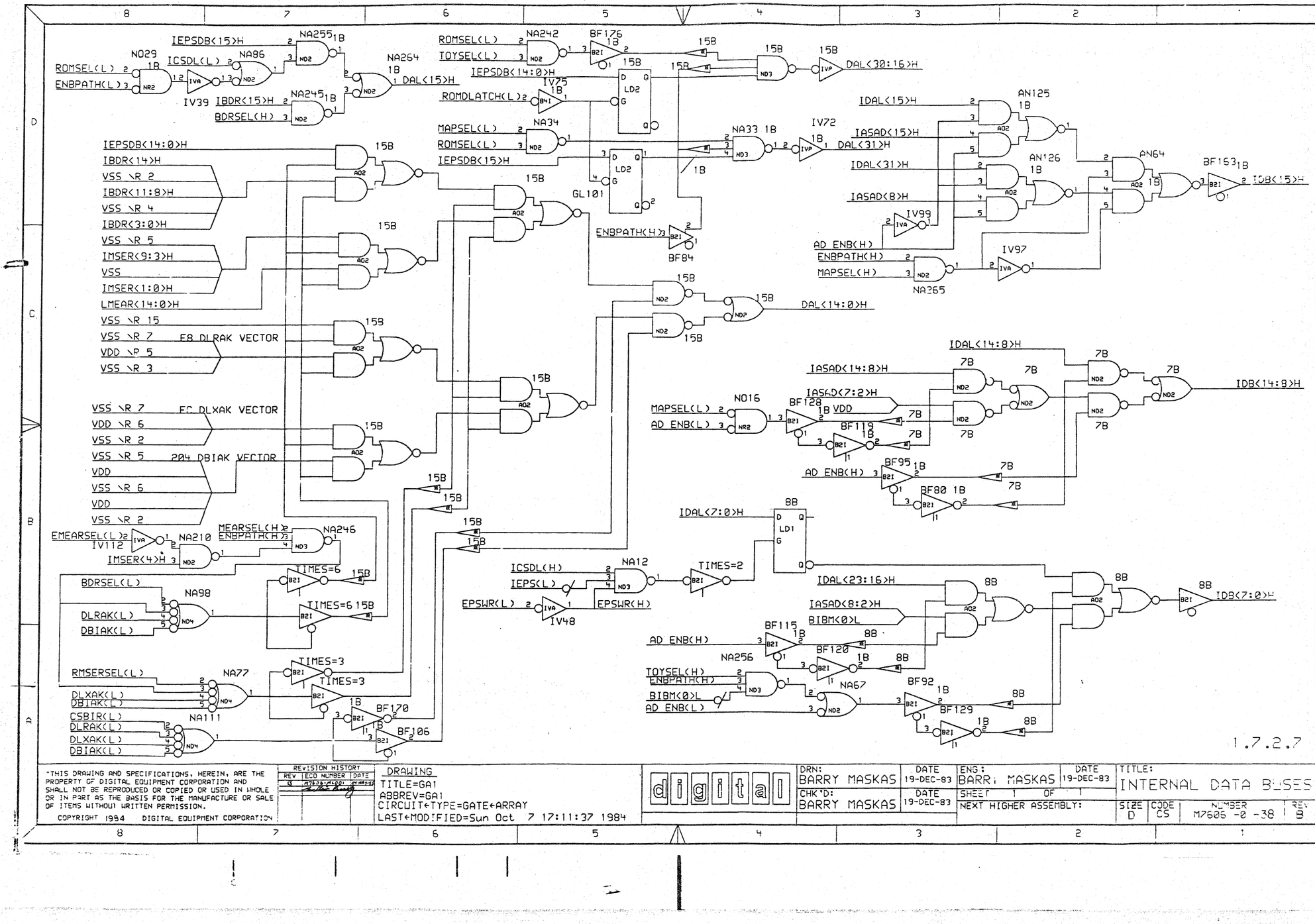
DRAWING
TITLE=GA1
ABBREV=GA1
CIRCUIT=TYPE=GATE=ARRAY
LAST=MODIFIED=NOT WRITTEN

digital

DRN: BARRY MASKAS	DATE 19-DEC-83	ENG: BARRY MASKAS	DATE 19-DEC-83
CHK'D: BARRY MASKAS	DATE 19-DEC-83	SHEET 1 OF 1	
		NEXT HIGHER ASSEMBLY:	

TITLE: EPR BUS, XDAL BUS

SIZE	CODE	NUMBER	REV
D	CS	M7506 -0 -77	E

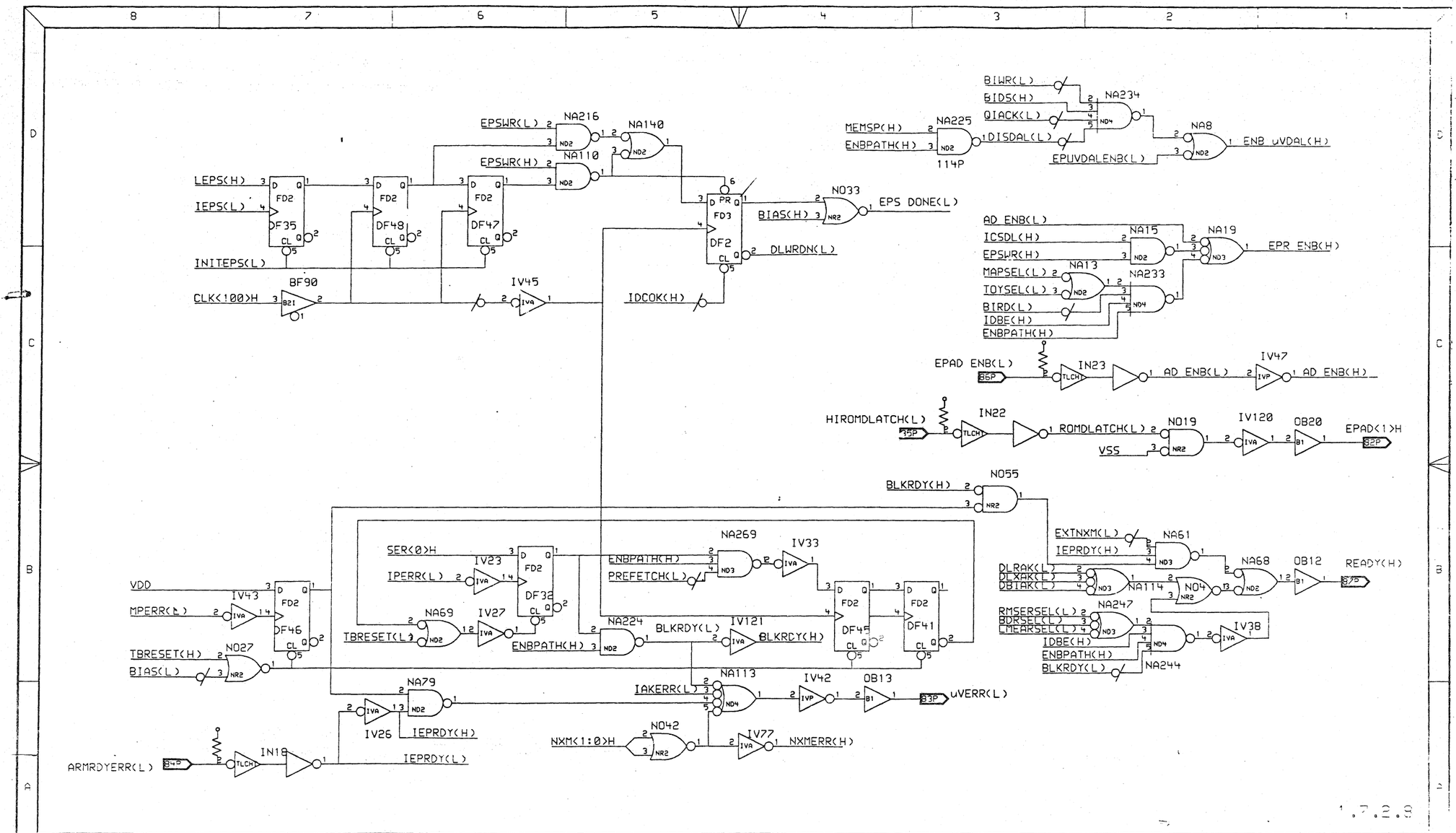


REVISION HISTORY		
REV	ECO NUMBER	DATE
B	M7605-ALG01	07-MAY-85

DRAWING
TITLE=GA1
ABBREV=GA1
CIRCUIT←TYPE=GATE←ARRAY
LAST←MODIFIED=Sun Oct 7 17:11:37 1984

digital

DRN: BARRY MASKAS	DATE 19-DEC-83	ENG: BARRY MASKAS	DATE 19-DEC-83	TITLE: INTERNAL DATA BUSES
CHK'D: BARRY MASKAS	DATE 19-DEC-83	SHEET 1 OF 1		
		NEXT HIGHER ASSEMBLY:	SIZE D / CODE CS	NUMBER M7605 -0 -38 / REV B



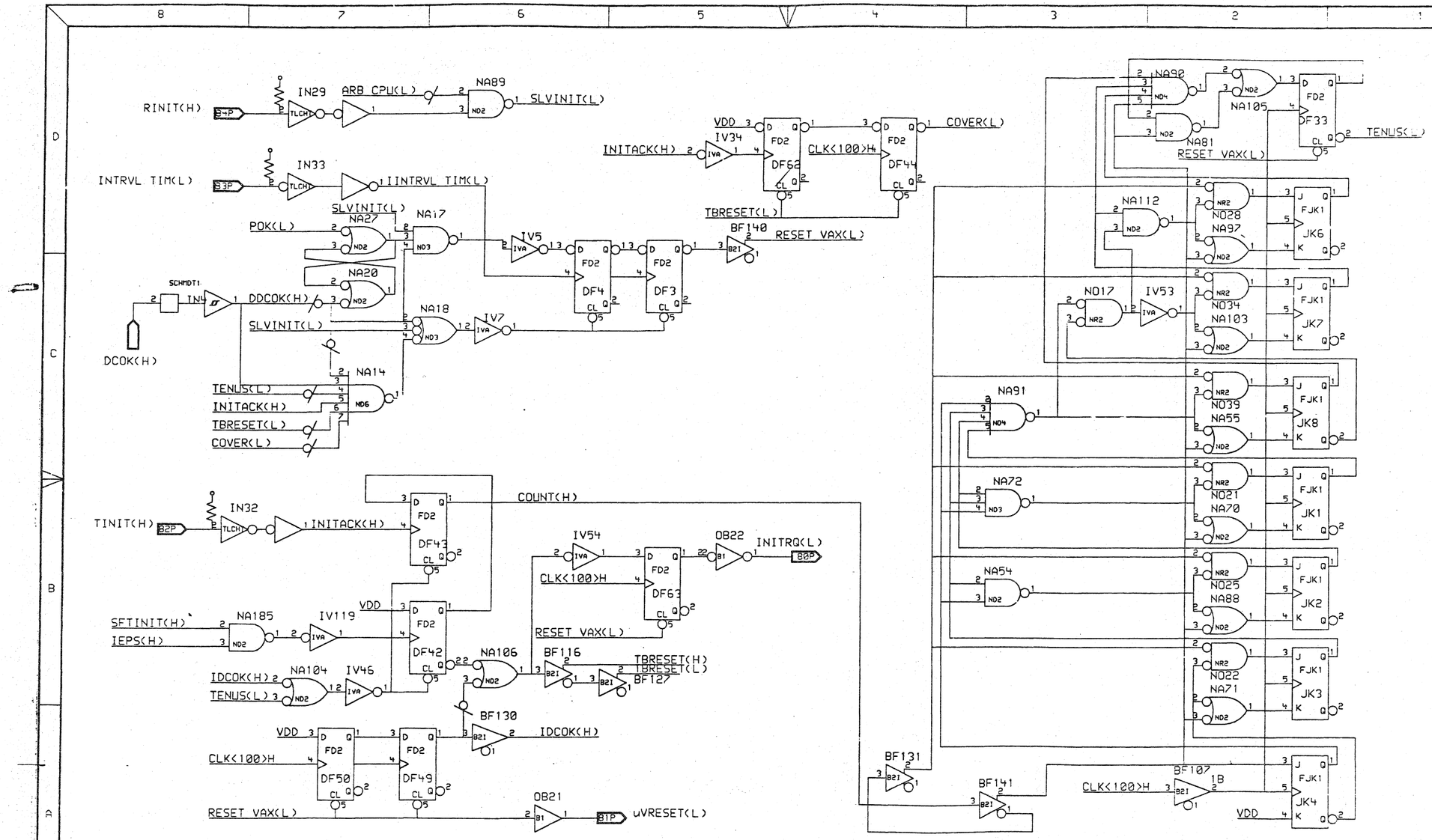
1.7.2.9

REVISION HISTORY		
REV	ECO NUMBER	DATE
G	M7609-A001	04-AUG-83

DRAWING
TITLE=GA1
ABBREV=GA1
CIRCUIT=TYPE=GATE=ARRAY
LAST=MODIFIED=Sun Oct 7 17:15:18 1984

digital

DRN: BARRY MASKAS	DATE 19-DEC-83	ENG: BARRY MASKAS	DATE 19-DEC-83	TITLE: MISC. CONTROL STROBES
CHK'D: BARRY MASKAS	DATE 19-DEC-83	SHEET 1 OF 1		
		NEXT HIGHER ASSEMBLY:		SIZE D CODE 05 NUMBER M7525-2-69 REV B



1.7.2.9

REVISION HISTORY

REV	ECO NUMBER	DATE
B	17405-ALOU	19-DEC-83

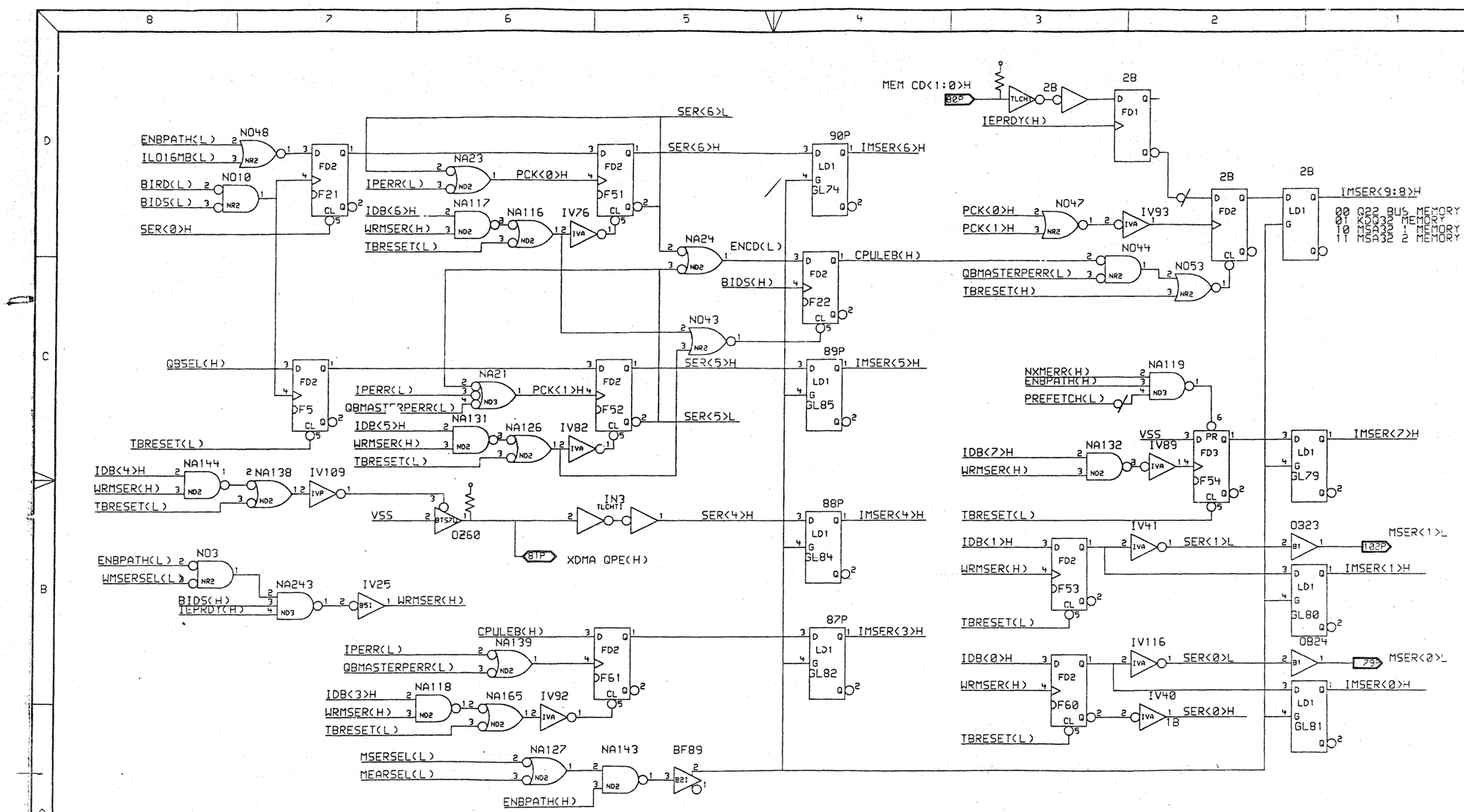
DRAWING
TITLE=GA1
ABBREV=GA1
CIRCUIT=TYPE=GATE=ARRAY
LAST=MODIFIED=Sun Oct 7 17:19:49 1984

digital

DRN: BARRY MASKAS	DATE 19-DEC-83	ENG: BARRY MASKAS	DATE 19-DEC-83
CHK'D: BARRY MASKAS	DATE 19-DEC-83	SHEET 1 OF 1	
		NEXT HIGHER ASSEMBLY:	

TITLE: RESET COUNTER, POWER UP/DOWN CNTRL

SIZE	CODE	NUMBER	REV
D	CS	M7605 -0 -10	B



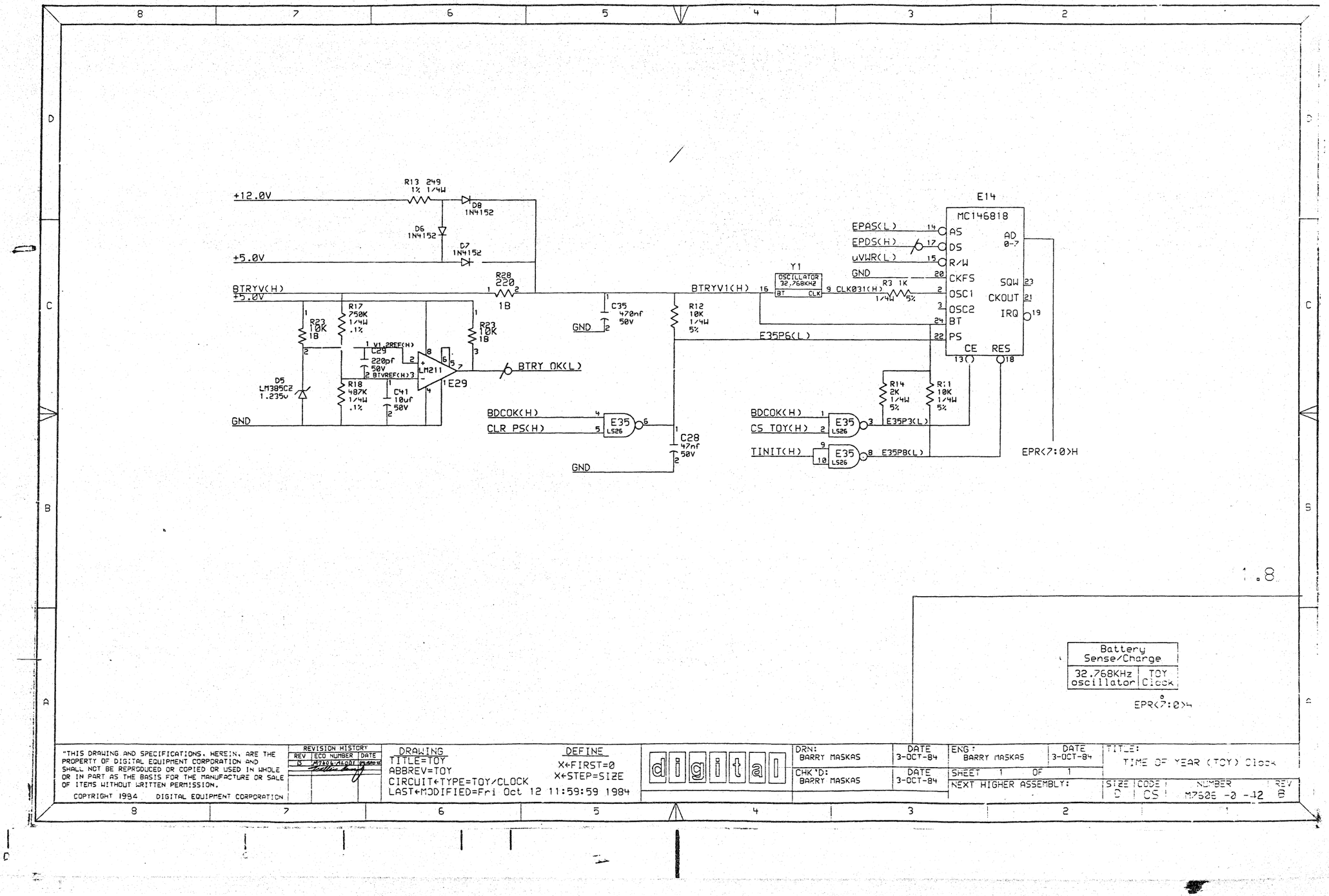
1.7.2.12

REVISION HISTORY		
REV	ECO NUMBER	DATE
A	47509 M7501 alignment	

DRAWING
TITLE=GA1
ABBREV=GA1
CIRCUIT+TYPE=GATE+ARRAY
LAST+MODIFIED=Sun Oct 7 17:24:40 1984

digital

DRN: BARRY MASKAS	DATE 19-DEC-83	ENG: BARRY MASKAS	DATE 19-DEC-83	TITLE: MEMORY SYSTEM ERROR REGISTER	
CHK'D: BARRY MASKAS	DATE 19-DEC-83	SHEET 1 OF 1			
		NEXT HIGHER ASSEMBLY:		SIZE D / CODE CS / NUMBER M7505 -0 -1 / REV E	



1.8

Battery Sense/Charge

32.768KHz oscillator	TOY Clock

EPR<7:0>H

REVISION HISTORY

REV	ECO NUMBER	DATE
B	M780 ENGR	

DRAWING
TITLE=TOY
ABBREV=TOY
CIRCUIT←TYPE=TOY/CLOCK
LAST←MODIFIED=Fri Oct 12 11:59:59 1984

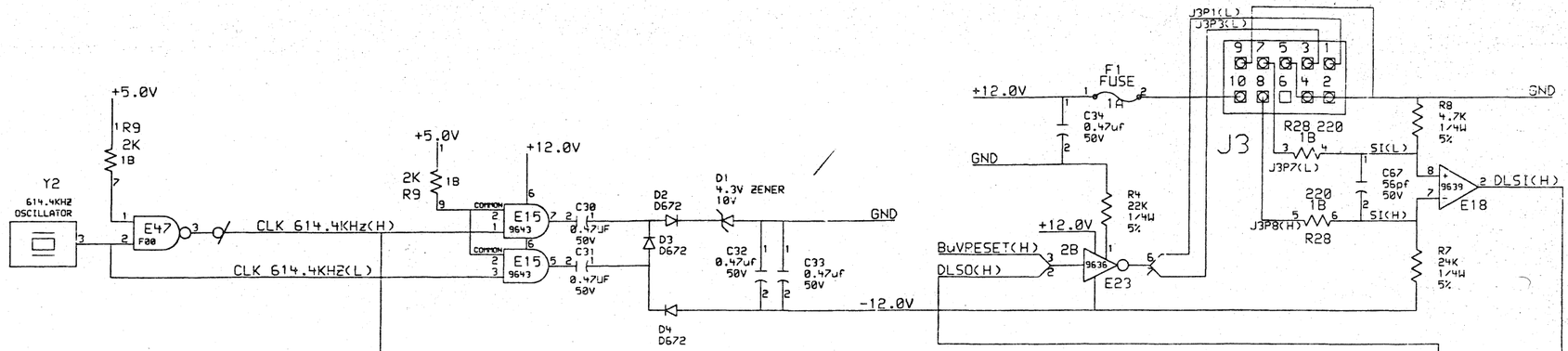
DEFINE
X←FIRST=0
X←STEP=SIZE

digital

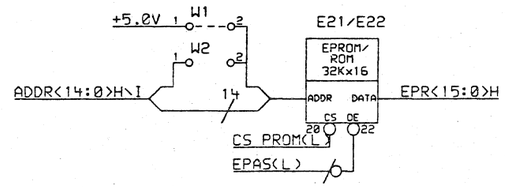
DRN: BARRY MASKAS	DATE 3-OCT-84	ENG: BARRY MASKAS	DATE 3-OCT-84
CHK'D: BARRY MASKAS	DATE 3-OCT-84	SHEET 1 OF 1	
		NEXT HIGHER ASSEMBLY:	

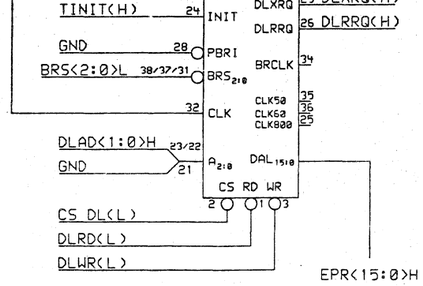
TITLE: TIME OF YEAR (TOY) Clock

SIZE	CODE	NUMBER	REV
D	CS	M7505 -0 -12	B

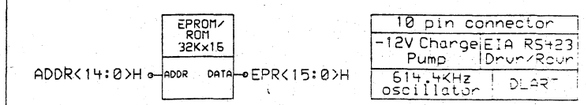


NOTE:
W1 is normally installed (for 2764 & 27128 EPROM's)
W2 is to be installed for 27256 EPROM's.





1.5



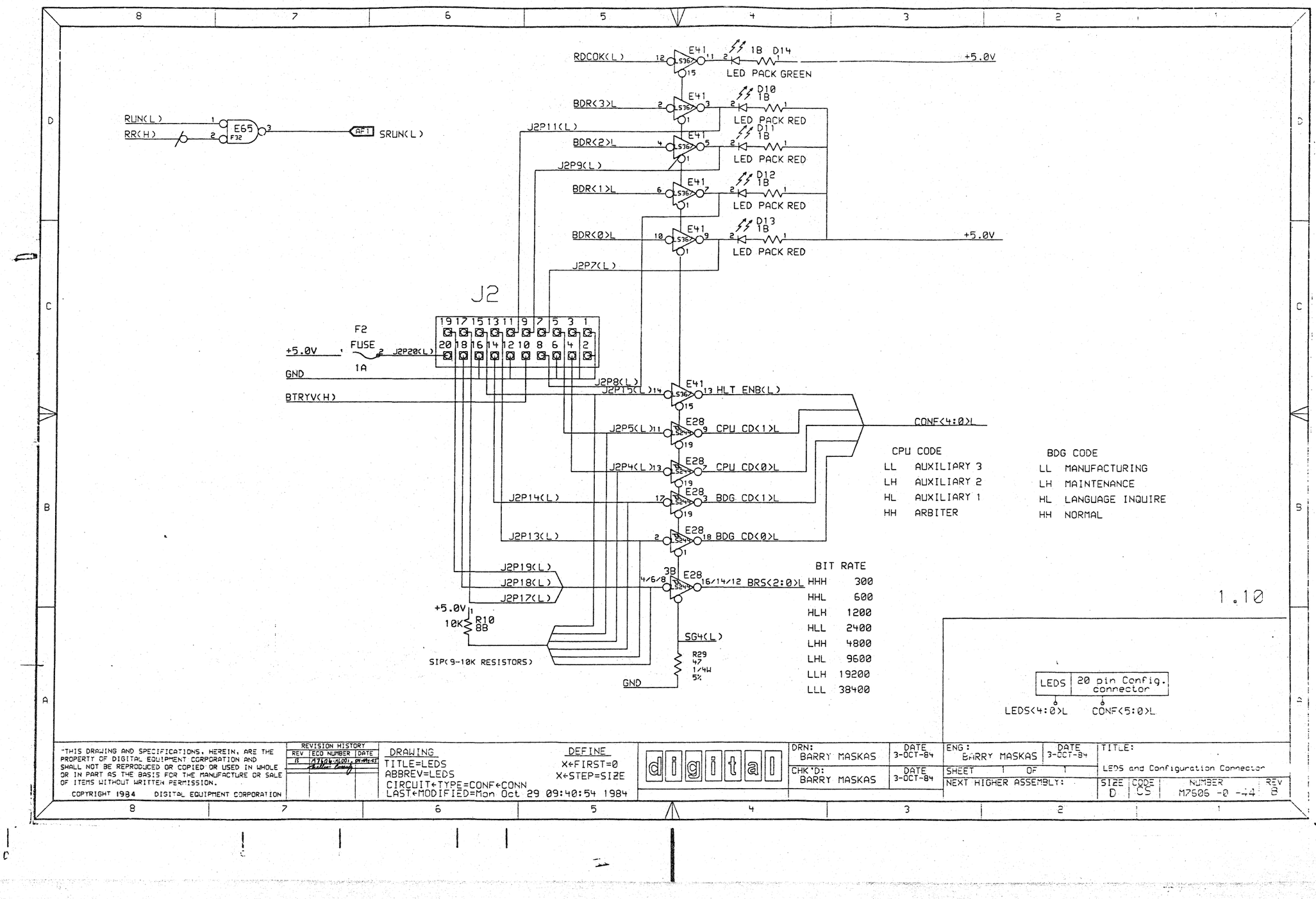
REVISION HISTORY		
REV	ECO NUMBER	DATE
A	27402,AL001	24-MAY-84

DRAWING
TITLE=COMM
ABBREV=COMM
CIRCUIT←TYPE=SERIAL←I/O
LAST←MODIFIED=Fri Oct 12 14:27:55 1984

DEFINE
X←FIRST=0
X←STEP=SIZE

digital

DRN: BARRY MASKAS	DATE 3-OCT-84	ENG: BARRY MASKAS	DATE 3-OCT-84	TITLE: Console Serial Line Interface
CHK'D: BARRY MASKAS	DATE 3-OCT-84	SHEET 1 OF 1		
		NEXT HIGHER ASSEMBLY:	SIZE D / CODE CS / NUMBER M7526-0-43 / REV B	



REVISION HISTORY		
REV	ECO NUMBER	DATE
B	A7606-0001, 04-Mar-85	

DRAWING
TITLE=LEDS
ABBREV=LEDS
CIRCUIT←TYPE=CONF←CONN
LAST←MODIFIED=Mon Oct 29 09:40:54 1984

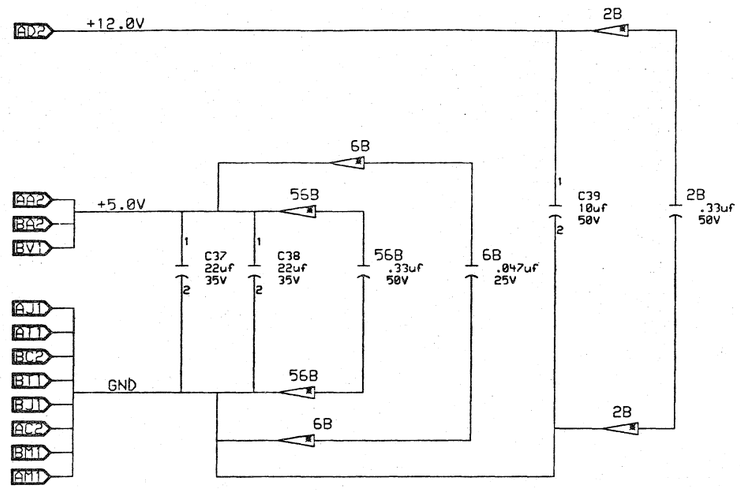
DEFINE
X←FIRST=0
X←STEP=SIZE

digital

DRN: BARRY MASKAS	DATE 3-OCT-84	
CHK'D: BARRY MASKAS	DATE 3-OCT-84	
ENG: BARRY MASKAS	DATE 3-OCT-84	
SHEET 1 OF 1		
NEXT HIGHER ASSEMBLY:		

TITLE: LEDS and Configuration Connector

SIZE	CODE	NUMBER	REV
D	CS	M7505 -0 -44	B



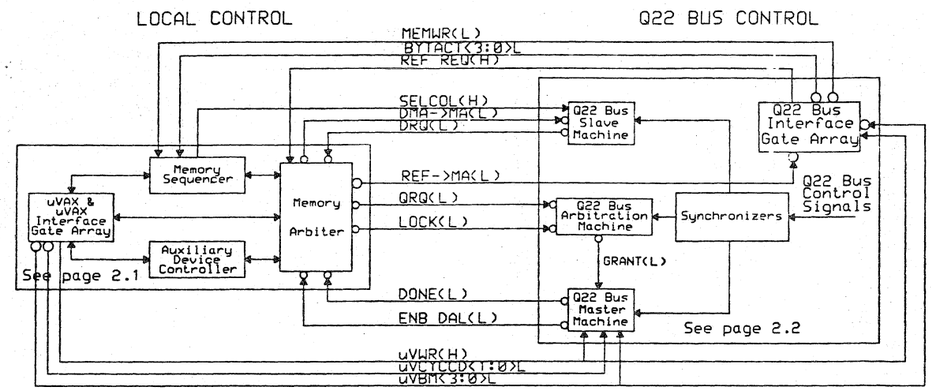
REVISION HISTORY		
REV	ECO NUMBER	DATE
A	[illegible]	[illegible]

DRAWING

TITLE=KDQ32

LAST←MODIFIED=Sun Oct 7 20:49:41 1984

DRN: BARRY MASKAS	DATE 3-OCT-84	ENG: BARRY MASKAS	DATE 3-OCT-84	TITLE: Decoupling Capacitors	
CHK'D: BARRY MASKAS	DATE 3-OCT-84	SHEET 1 OF 1			
		NEXT HIGHER ASSEMBLY:		SIZE D / CODE CS / NUMBER M7525-2-5 / REV B	



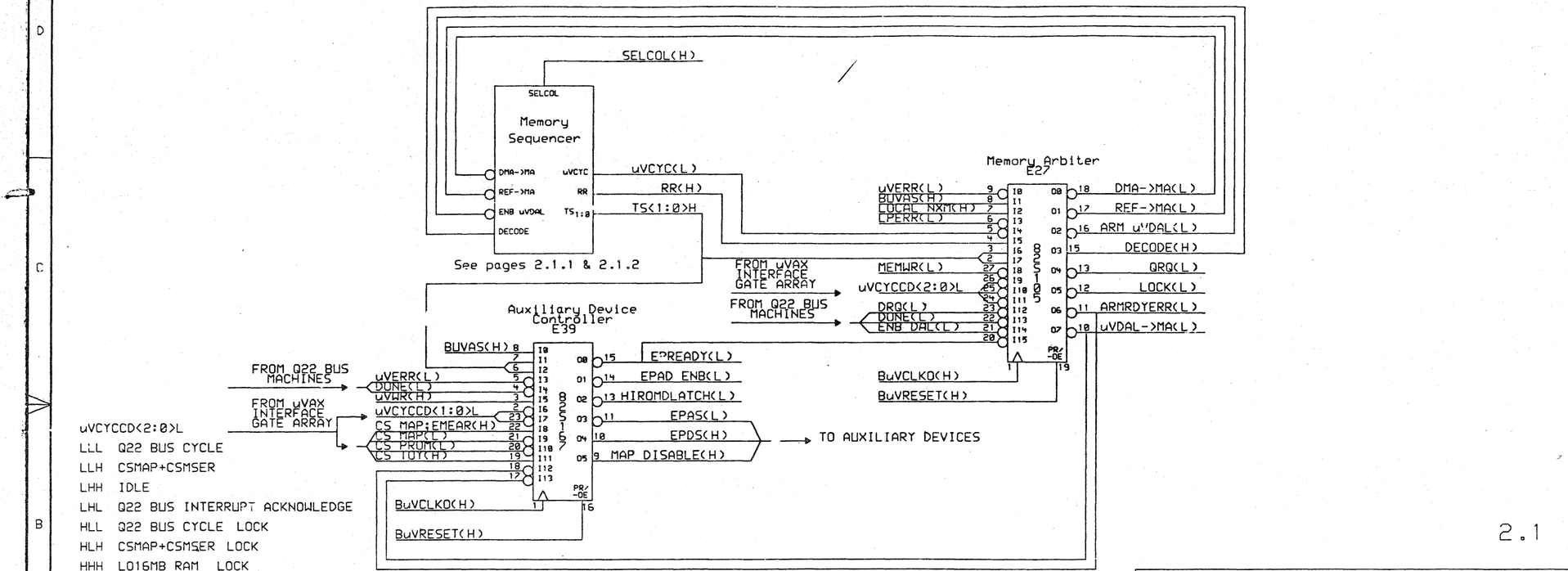
REVISION HISTORY		
REV	ECO NUMBER	DATE
B	[illegible]	[illegible]

DRAWING

TITLE=CTLBLOCK
ABBREV=ctl
CIRCUIT←TYPE=CONTROL
LAST←MODIFIED=Mon Oct 29 09:44:18 1984

digital

DRN: BARRY MASKAS	DATE 8-DEC-83	ENG: BARRY MASKAS	DATE 8-DEC-83	TITLE: KA630 State Machines	
CHK'D: R. MCNAMARA	DATE 8-DEC-83	SHEET 1 OF 1			
		NEXT HIGHER ASSEMBLY:		SIZE D	CODE CS	NUMBER M7606 -2	REV B



REVISION HISTORY		
REV	ECO NUMBER	DATE
B	ATG0-ML001	14-MAY-85

DRAWING
TITLE=uVAX MACHINE
ABBREV=uVMach
CIRCUIT=TYPE=control
LAST=MODIFIED=Sun Oct 7 18:51:31 1984

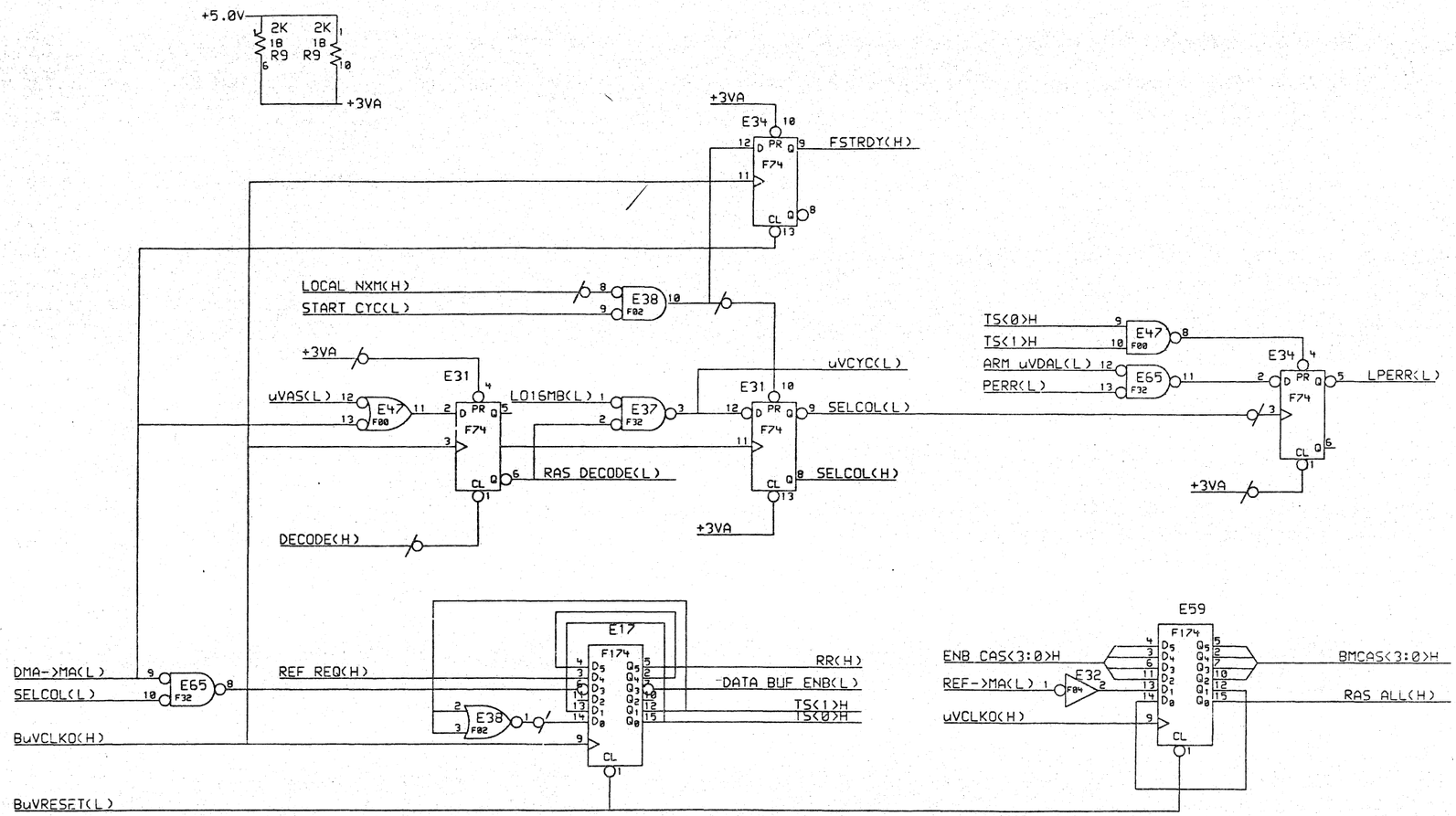
DEFINE
X=FIRST=0
X=STEP=SIZE

digital

DRN: BARRY MASKAS	DATE 3-OCT-84	ENG: BARRY MASKAS	DATE 3-OCT-84
CHK'D: BARRY MASKAS	DATE 3-OCT-84	SHEET 1 OF 1	
		NEXT HIGHER ASSEMBLY:	

TITLE: uVAX Cycle Controller

SIZE	CODE	NUMBER	REV
D	CS	M7505 -0 -47	B



TS(1:0) STATE TABLE (uVAX Microcycle Counter)

	s	ns	
T4	00	01	first uVAX CLKO after /BuVRESET
T1	01	11	
T2	11	10	
T3	10	00	

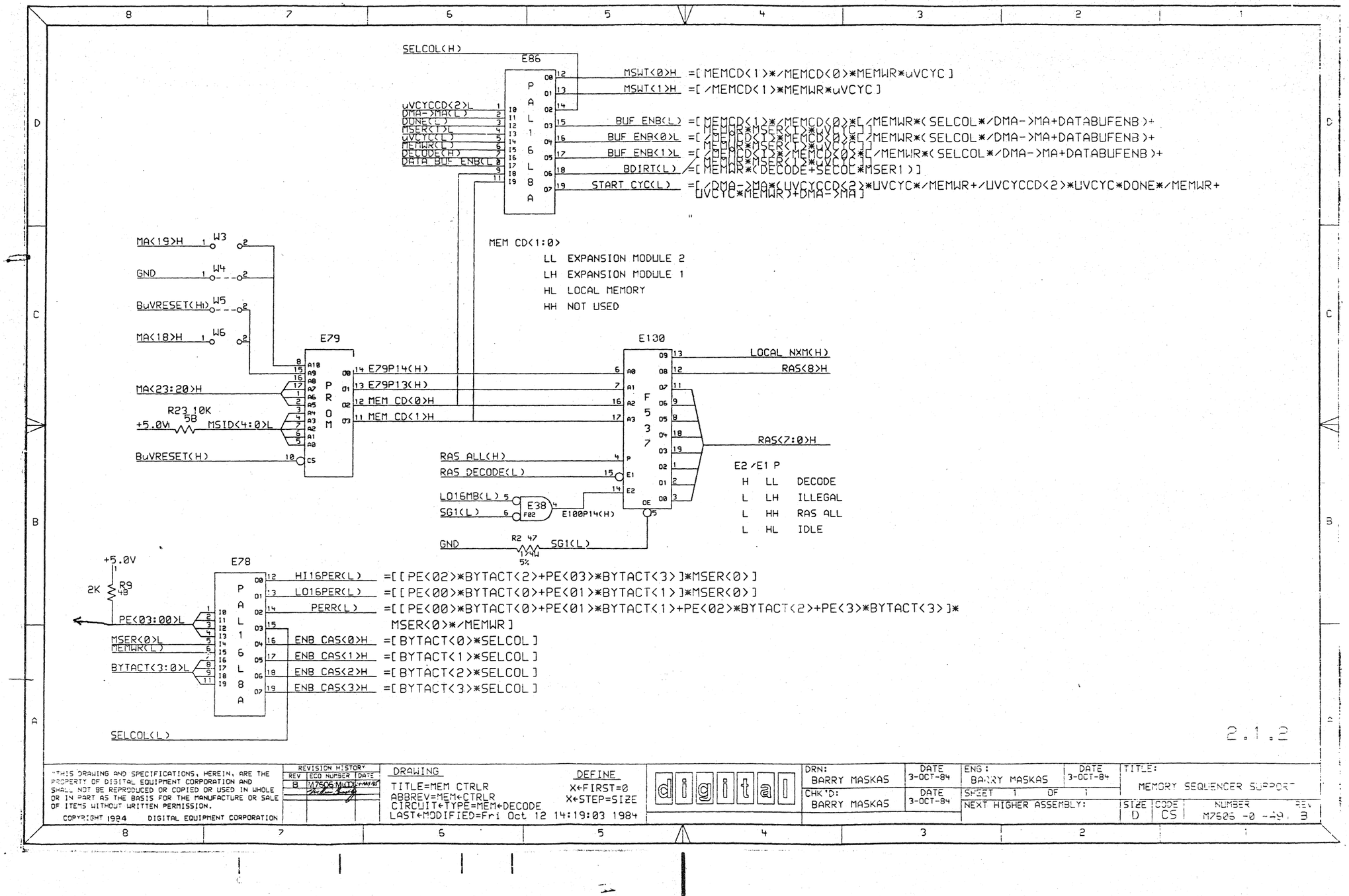
2.1.1

REVISION HISTORY		
REV	ECO NUMBER	DATE
A	M7505-MACRO-0001	

DRAWING
TITLE=MEM CTRLR
ABBREV=MEMCTRL
CIRCUIT←TYPE=MEM←CTRL
LAST←MODIFIED=Fri Oct 12 14:23:21 1984

digital

DRN: BARRY MASKAS	DATE 18-DEC-83	ENG: BARRY MASKAS	DATE 18-DEC-83	TITLE: MEMORY SEQUENCER
CHK'D: BARRY MASKAS	DATE 18-DEC-83	SHEET 1 OF 1		
		NEXT HIGHER ASSEMBLY:		SIZE D · CODE CS · NUMBER M7505 -0 -48 · REV B

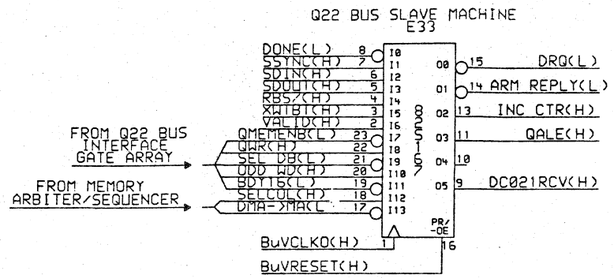


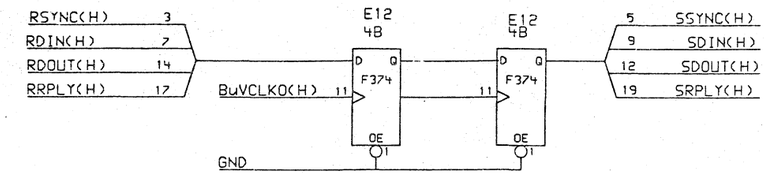
REVISION HISTORY		
REV	ECO NUMBER	DATE
B	M7505 MLO	4-MAY-84

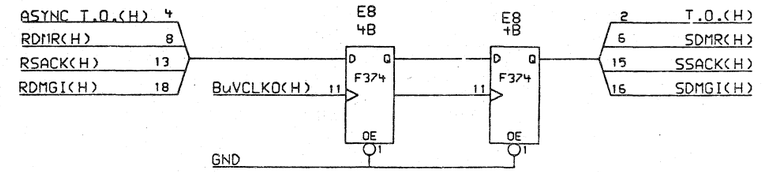
DRAWING
TITLE=MEM CTRLR
ABBREV=MEM<CTRLR
CIRCUIT<TYPE=MEM<DECODE
LAST<MODIFIED=Fri Oct 12 14:19:03 1984

DEFINE
X<FIRST=0
X<STEP=SIZE

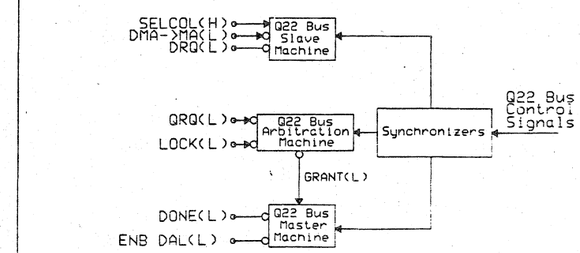
DRN: BARRY MASKAS	DATE 3-OCT-84	ENG: BARRY MASKAS	DATE 3-OCT-84	TITLE: MEMORY SEQUENCER SUPPORT		
CHK'D: BARRY MASKAS	DATE 3-OCT-84	SHEET 1 OF 1				
		NEXT HIGHER ASSEMBLY:		SIZE D	CODE CS	NUMBER M7525 -0 -29 REV B







2.2



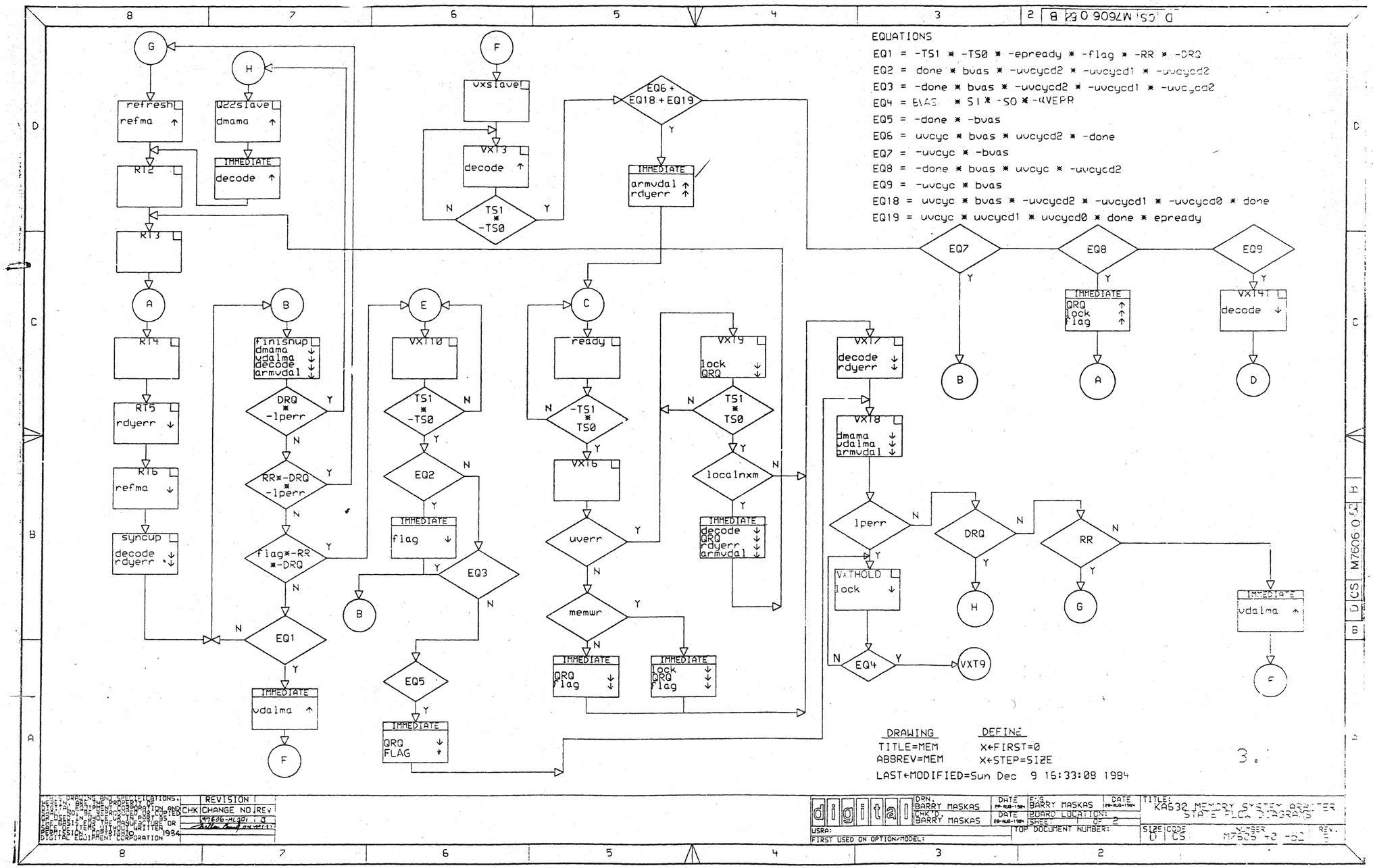
REVISION HISTORY		
REV	ECO NUMBER	DATE
A	ATHOLL-007	4-MAY-84

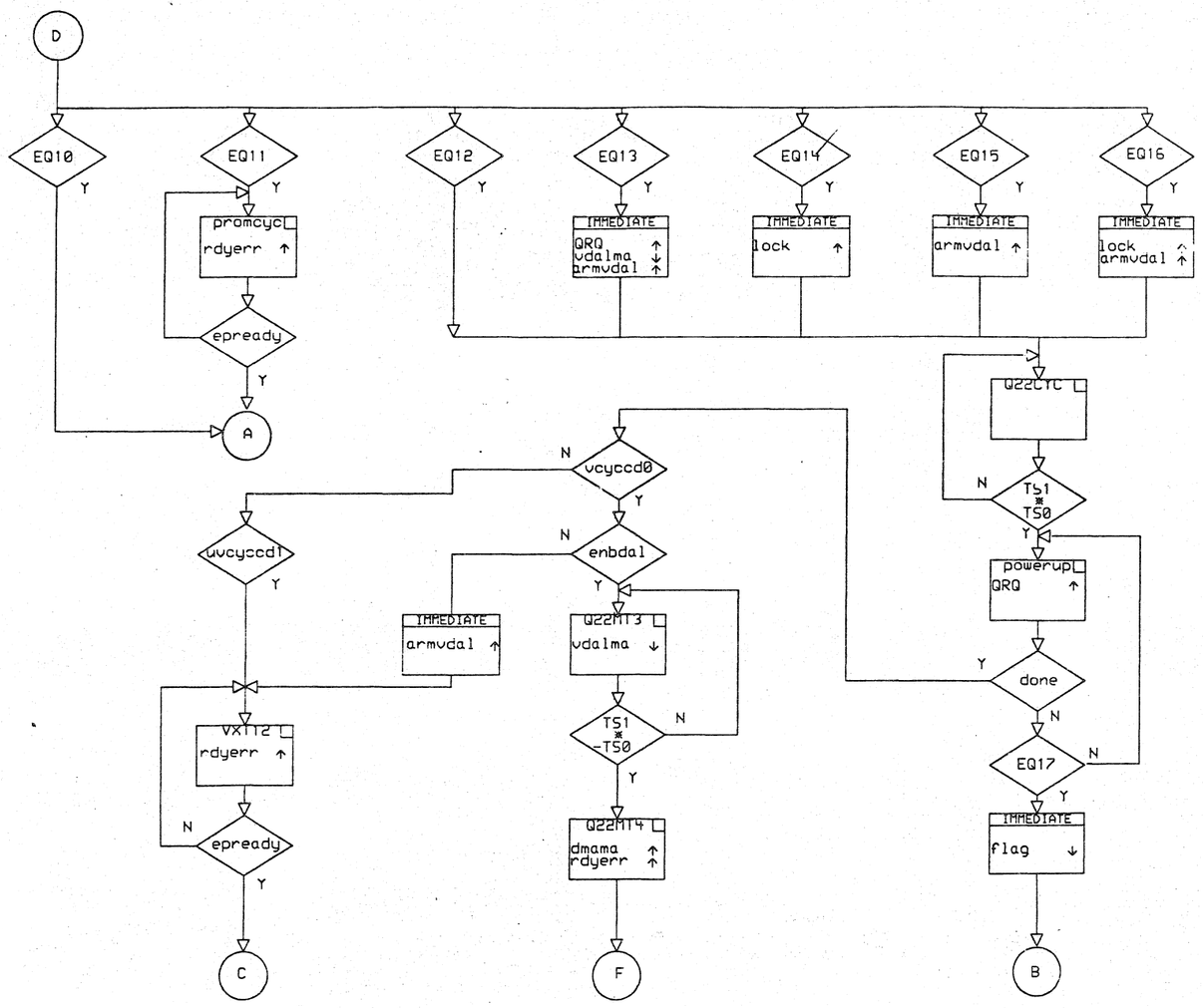
DRAWING
TITLE=QBUS MACHINE
ABBREV=QCTRL
CIRCUIT-TYPE=QBUS-CNTRL
LAST-MODIFIED=Fri Oct 12 12:21:22 1984

DEFINE
X-FIRST=0
X-STEP=512E

digital

DRN: R. McNamara	DATE 3-OCT-84	ENG: R. McNamara	DATE 3-OCT-84	TITLE: Q22 BUS STATE MACHINES	
CHK'D: R. McNamara	DATE 3-OCT-84	SHEET 1 OF 1			
		NEXT HIGHER ASSEMBLY:		SIZE D / CODE CS / NUMBER M7505 -0 -50 / REV B	


G
H
F
refresh
refma
Q22slave
dmama
IMMEDIATE
decode
RT2
RT3
A
RT4
RT5
rdyerr
RT6
refma
syncup
decode
rdyerr
B
finishup
dmama
vdalma
decode
armvdal
DRQ * -lperr
RR*-DRQ *-lperr
flag*-RR *-DRQ
EQ1
IMMEDIATE
vdalma
F
vxslave
VXT3
decode
TS1 * -TS0
EQ6 + EQ18 + EQ19
IMMEDIATE
armvdal
rdyerr
E
VXT10
TS1 * -TS0
EQ2
IMMEDIATE
flag
EQ3
B
EQ5
IMMEDIATE
QRQ
FLAG
C
ready
-TS1 * TS0
VXT6
uverr
memwr
IMMEDIATE
QRQ
flag
IMMEDIATE
lock
QRQ
flag
VXT9
lock
QRQ
TS1 * TS0
localnxm
IMMEDIATE
decode
QRQ
rdyerr
armvdal
VXT7
decode
rdyerr
VXT8
dmama
vdalma
armvdal
lperr
DRQ
RR
VXTHOLD
lock
EQ4
VXT9
H
G
IMMEDIATE
vdalma
F
EQUATIONS
EQ1 = -TS1 * -TS0 * -epready * -flag * -RR * -DRQ
EQ2 = done * bvas * -uvcycd2 * -uvcycd1 * -uvcycd0
EQ3 = -done * bvas * -uvcycd2 * -uvcycd1 * -uvcycd0
EQ4 = BVAS * S1 * -S0 * -UVERR
EQ5 = -done * -bvas
EQ6 = uvcyc * bvas * uvcycd2 * -done
EQ7 = -uvcyc * -bvas
EQ8 = -done * bvas * uvcyc * -uvcycd2
EQ9 = -uvcyc * bvas
EQ18 = uvcyc * bvas * -uvcycd2 * -uvcycd1 * -uvcycd0 * done
EQ19 = uvcyc * uvcycd1 * uvcycd0 * done * epready
EQ7
EQ8
EQ9
IMMEDIATE
QRQ
lock
flag
VXT4
decode
B
A
D
DRAWING
TITLE=MEM
ABSREV=MEM
DEFINE
X←FIRST=0
X←STEP=SIZE
LAST←MODIFIED=Sun Dec 9 15:33:08 1984
3.
REVISION
CHK
CHANGE NO
REV
M7606-ML001
A
DRN. BARRY MASKAS
DES. BARRY MASKAS
CHK'D BARRY MASKAS
USRA:
FIRST USED ON OPTION/MODEL:
TOP DOCUMENT NUMBER:
BOARD LOCATION:
SHEET 6 OF 2
TITLE: KA630 MEMORY SYSTEM ARBITER STATE FLOW DIAGRAMS
SIZE D
CODE
NUMBER CS M7606-2 -02
REV. F
D CS M7606 02 F



EQUATIONS

EQ10 = -uvcyc * -uvcycd1 * -uvcycd0

EQ11 = -uvcyc * -uvcycd2 * -uvcycd1 * uvcycd0

EQ12 = -uvcyc * uvcycd2 * uvcycd1 * -uvcycd0

EQ13 = -uvcyc * uvcycd2 * -uvcycd1 * uvcycd0

EQ14 = -uvcyc * -uvcycd2 * uvcycd1 * -uvcycd0

EQ15 = -uvcyc * uvcycd2 * uvcycd1 * uvcycd0

EQ16 = -uvcyc * -uvcycd2 * uvcycd1 * uvcycd0

EQ17 = DRQ + TS1 * -TS0 * RR

3.2

DRAWING

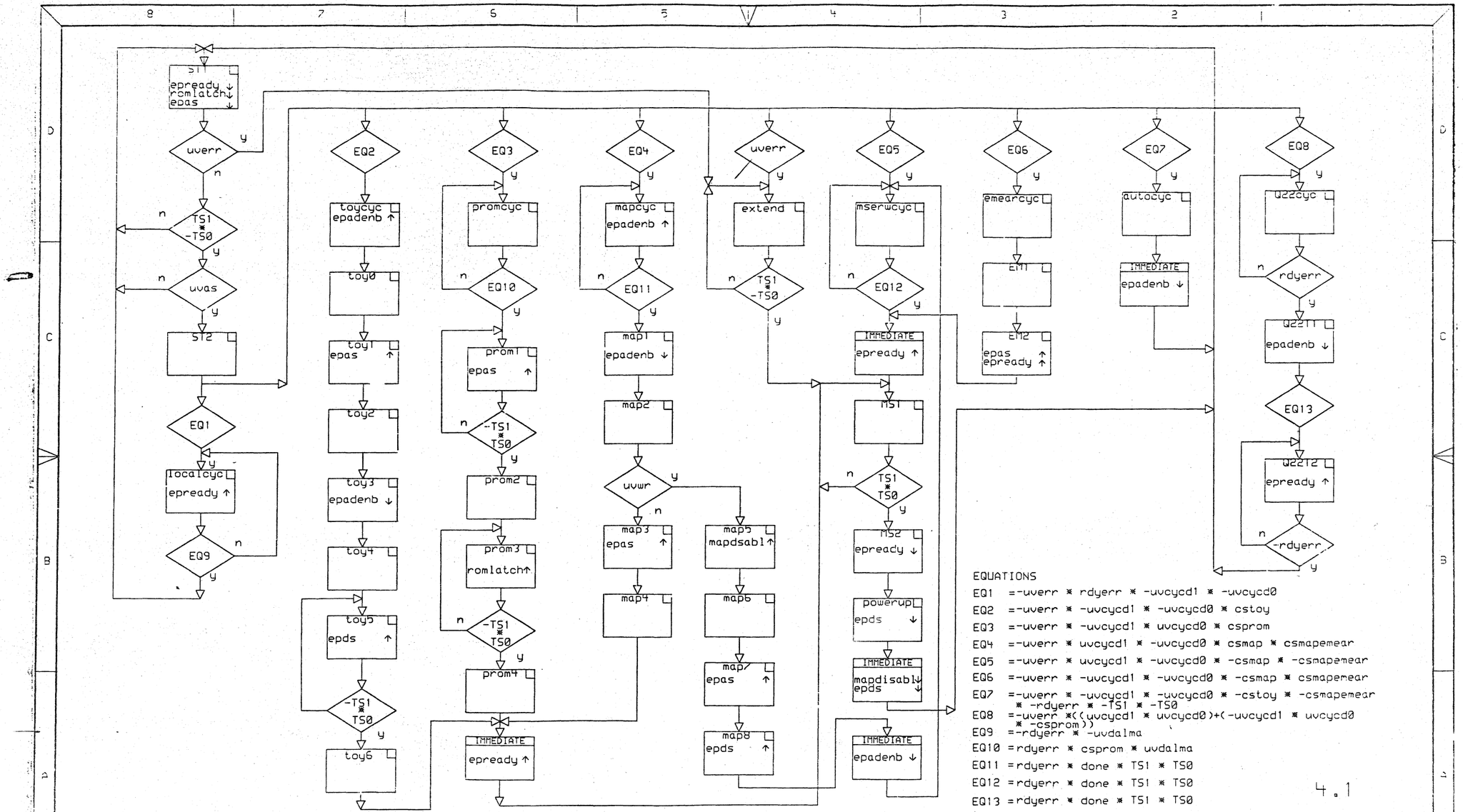
NAME=MEM
ABBREV=MEM
LAST←MODIFIED=Sun Dec 9 16:40:59 1984

REVISION		
CHK	CHANGE NO	REV
M7606 M401		A

digital	DRN BARRY MASKAS	DATE	TITLE: KA630 MEMORY SYSTEM ARBITER STATE FLOW DIAGRAMS
	CHK'D BARRY MASKAS	DATE	BOARD LOCATION:
	USRA:		SHEET 2 OF 2
	FIRST USED ON OPTION/MODEL:		TOP DOCUMENT NUMBER:

SIZE	CODE	NUMBER	REV
D	CS	M7505 -0 -53	B

M7606-0-53 B 2



EQUATIONS

EQ1 =-uverr * rdyerr * -uvcycd1 * -uvcycd0

EQ2 =-uverr * -uvcycd1 * -uvcycd0 * cstoy

EQ3 =-uverr * -uvcycd1 * uvcycd0 * csprom

EQ4 =-uverr * uvcycd1 * -uvcycd0 * csmap * csmapemear

EQ5 =-uverr * uvcycd1 * -uvcycd0 * -csmap * -csmapemear

EQ6 =-uverr * -uvcycd1 * -uvcycd0 * -csmap * csmapemear

EQ7 =-uverr * -uvcycd1 * -uvcycd0 * -cstoy * -csmapemear
* -rdyerr * -TS1 * -TS0

EQ8 =-uverr *((uvcycd1 * uvcycd0)+(-uvcycd1 * uvcycd0
* -csprom))

EQ9 =-rdyerr * -uvdalma

EQ10 =rdyerr * csprom * uvdalma

EQ11 =rdyerr * done * TS1 * TS0

EQ12 =rdyerr * done * TS1 * TS0

EQ13 =rdyerr * done * TS1 * TS0

4.1

REVISION HISTORY		
REV	ECO NUMBER	DATE
A	M7606-46001	19-MAY-84

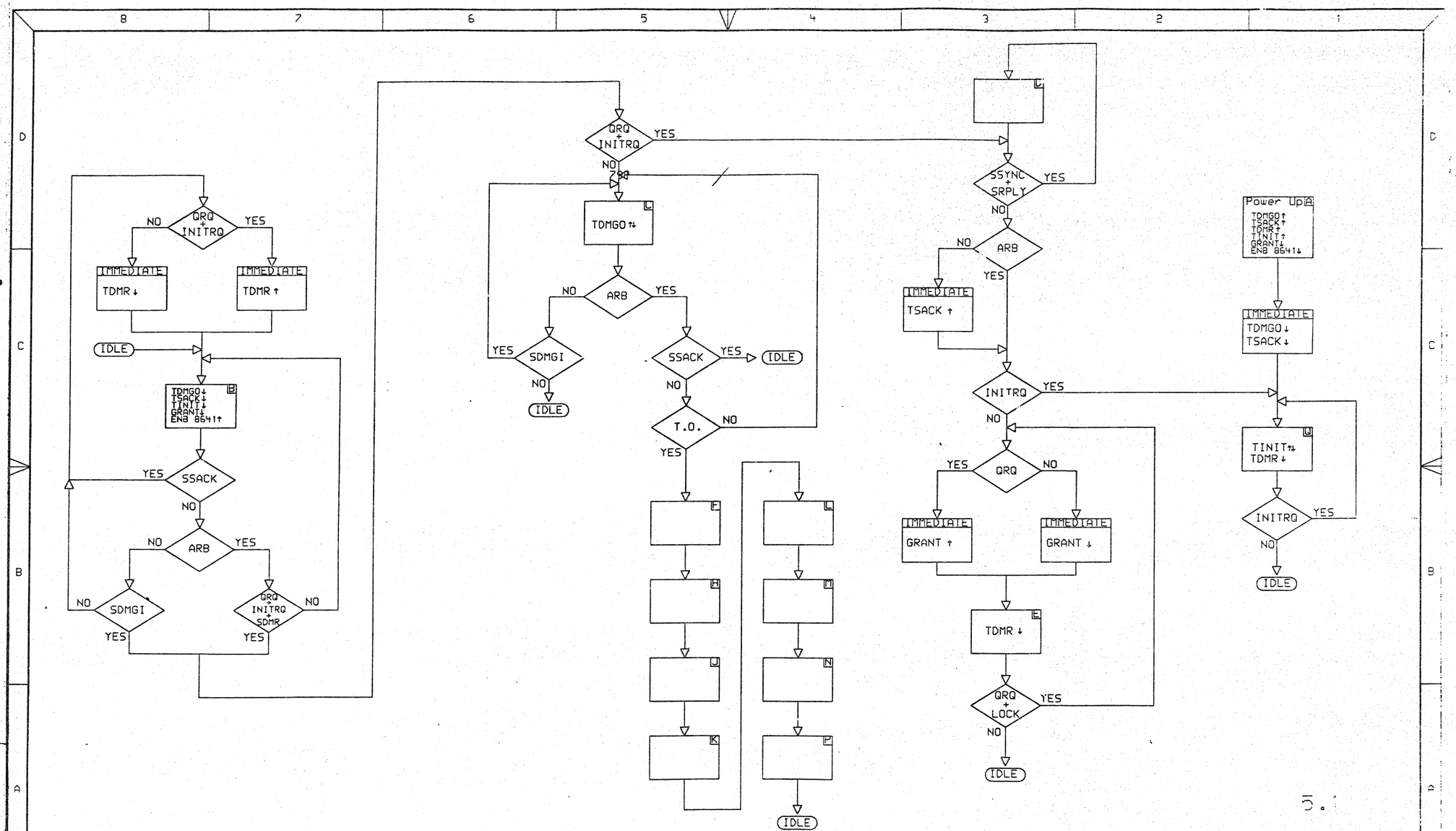
DRAWING
TITLE=EPR
ABBREV=EPR

DEFINE
X←FIRST=0
X←STEP=SIZE

LAST←MODIFIED=Mon Oct 22 15:14:12 1984

digital

DRN: BARRY MASKAS	DATE 28-AUG-1984	ENG: BARRY MASKAS	DATE 28-AUG-1984	TITLE: KA630 LOCAL I/O BUS CONTROL STATE MACHINE
CHK'D: BARRY MASKAS	DATE 28-AUG-1984	SHEET 1 OF 1		
		NEXT HIGHER ASSEMBLY:		SIZE D | CODE CS | NUMBER M7606 -0 -55 | REV E



"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.

REVISION HISTORY		
REV	ECO NUMBER	DATE
B	AYB63-M0001	6-Jul-84

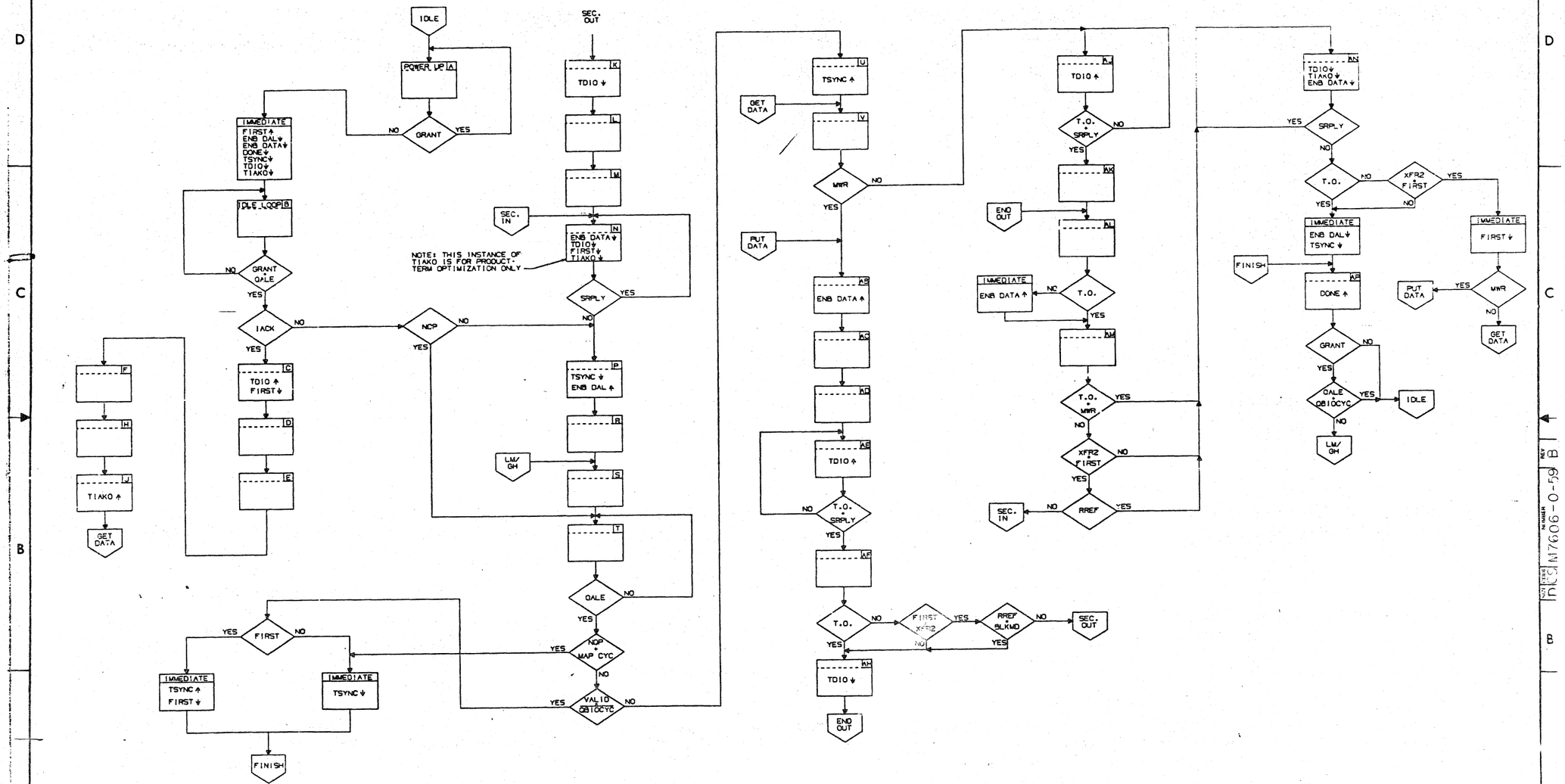
DRAWING
TITLE=ARB
ABBREV=arb
LAST←MODIFIED=Mon Oct 22 15:04:38 1984

DEFINE
X←FIRST=0
X←STEP=SIZE

digital

DRN: R. McNamara	DATE 6-Jul-84	ENG: R. McNamara	DATE 6-Jul-84
CHK'D: R. McNamara	DATE 6-Jul-84	SHEET 1 OF 1	
NEXT HIGHER ASSEMBLY:		SIZE D / CODE CS / NUMBER M7525 -2 -57 / REV B	

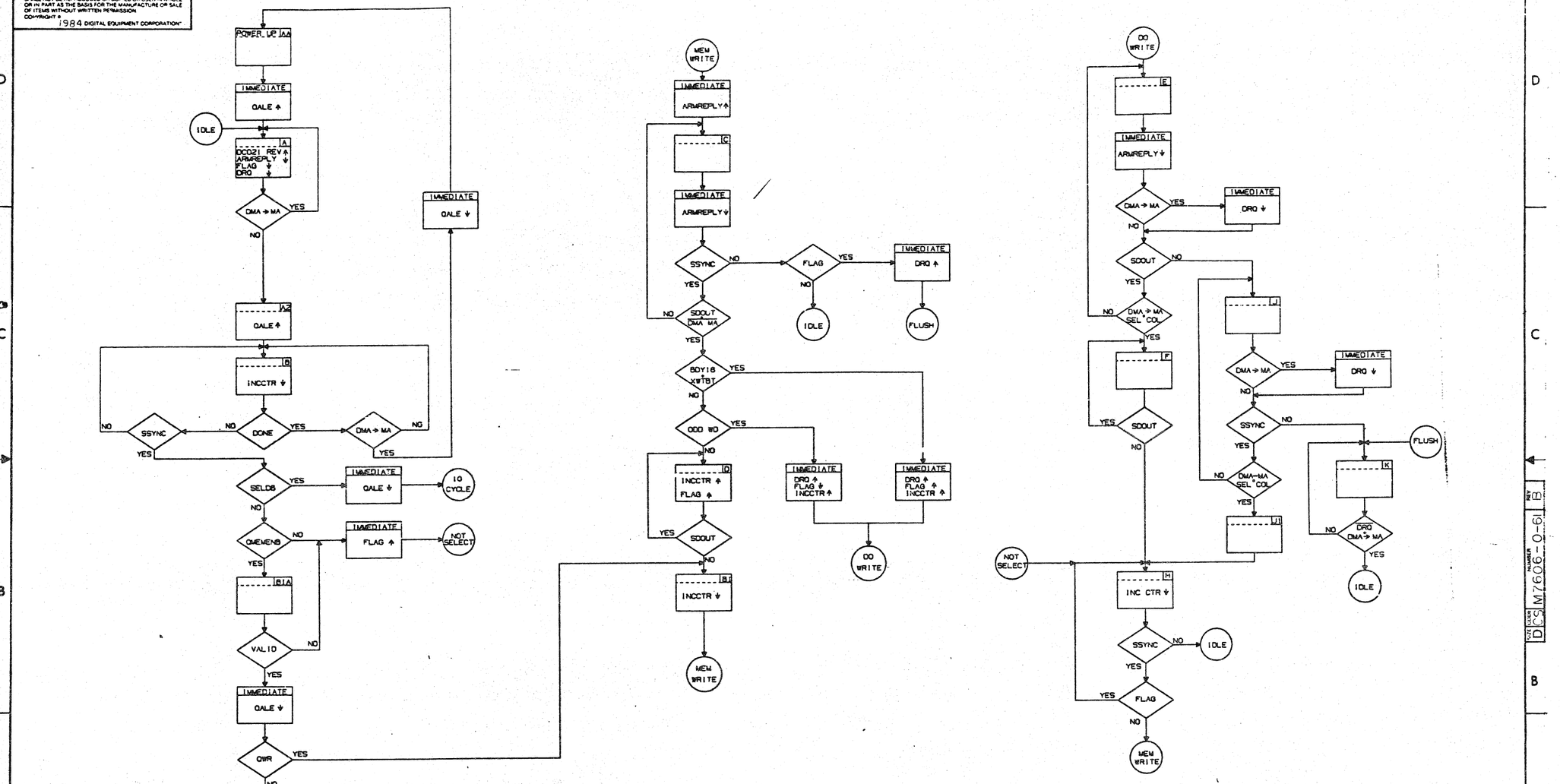
TITLE: QBUS ARBITRATION CONTROLLER
DETAILED CONTROL FLOW DIAGRAM



REVISION HISTORY		
DATE	SCO NUMBER	REV
[illegible]		A

TITLE	DOCUMENT NUMBER		
Q22 BUS MASTER CONTROL MACHINE FLOW DIAGRAM	SIZE D	CODE CS	NUMBER M7606-0-59 Rev B
	SCALE	SHEET 1 OF	

DCS M7606-0-59 B



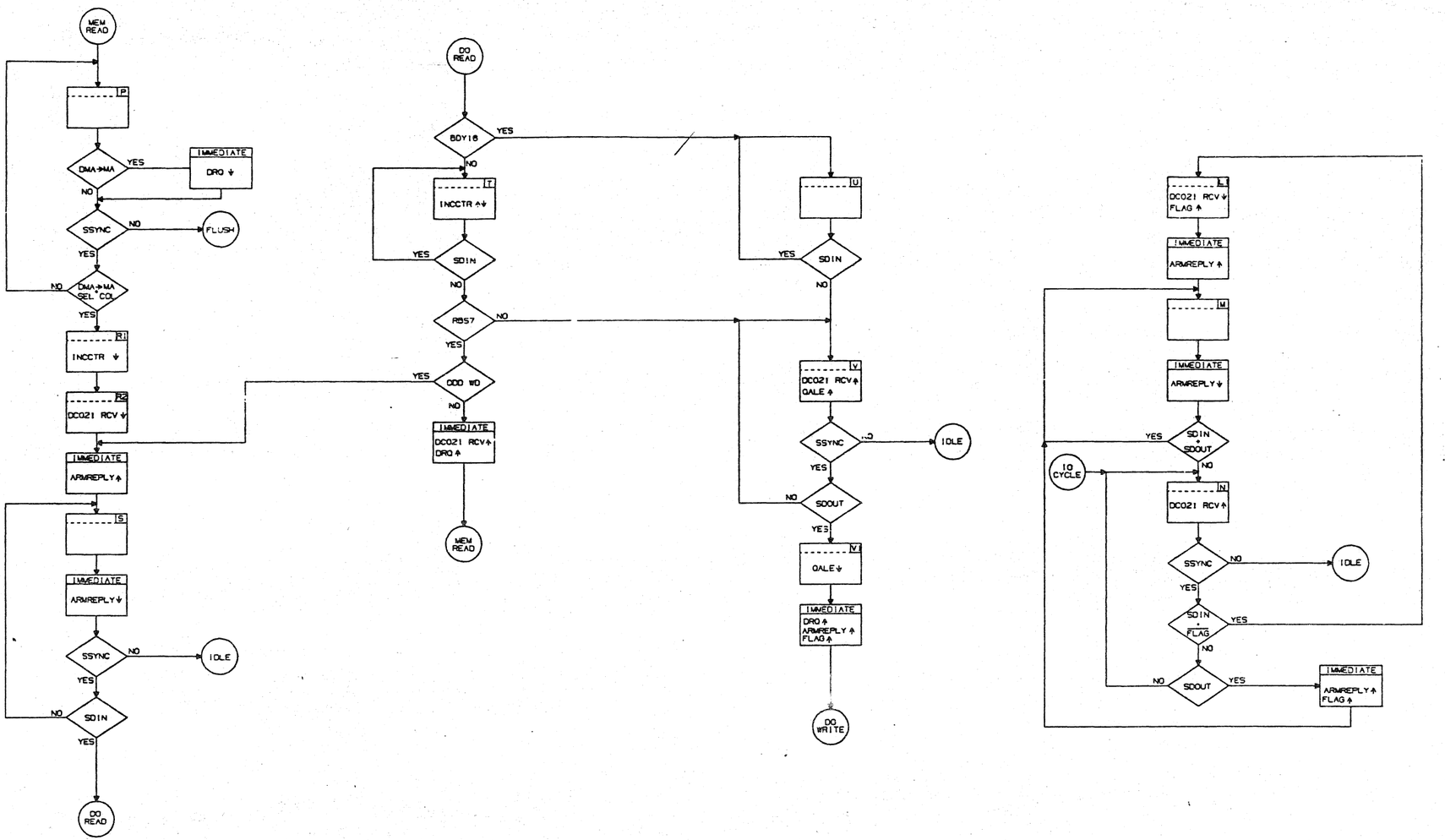
REVISION HISTORY		
DATE	ECO NUMBER	REV.

DRD 138A

TITLE: Q22 BUS SLAVE CONTROL MACHINE FLOW DIAGRAM

DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV
D	DCS	M7606-0-61	B

SCALE 1/1 SHEET 1 OF 1



REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE: Q22 BUS SLAVE CONTROL MACHINE FLOW DIAGRAM

DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV
D	DCS	M7606-0-62	B
SCALE 1/1		SHEET 1 OF 1	

DRD 138A

DCSM7606-0-62 REV B

SIZE	CODE	NUMBER	REV
B	DD	M8639-0-0	H

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS																	
		M8639-00	PART REVISION	A1	B1	C1	—	—	—	—											
		M8639-YA	PART REVISION	—	—	—	A1	—	—	B1											
		M8639-YB	PART REVISION	—	—	—	—	A1	B1	C1											
D-UA-M8639-0-0			UNIT ASSEMBLY	A	A	A	A	—	—	—											
D-UA-M8639-2-1			UNIT ASSEMBLY	—	—	—	—	A	B	C											
D-CS-M8639-0-1			CIRCUIT SCHEMATIC	A	B	C	D	—	—	—											
D-CS-M8639-2-1			CIRCUIT SCHEMATIC	—	—	—	—	A	B	B											
K-PC-M8639-0-DBJ			PC DESIGN DATA BASE	E1	E1	E	E	F	F	F											
K-PL-M8639-0-DBP			PARTS LIST	A	B	C	D	E	F	H											
B-DD-5015649-0-0			DRAWING DIRECTORY	A	A	A	A	B	B	B											
		5015649-01	ETCHED CIRCUIT BOARD	E1	E1	E1	E1	—	—	—											
		5015649-02	ETCHED CIRCUIT BOARD	—	—	—	—	A1	A1	A1											

NOTES:

REVISION HISTORY																					
REV.	A	B	C	D	E	F	H														
ECO NO.	INIT	ML001	ML002	ML003	ML005	ML006	TW007														
DATE							6-85														

digital

DRN D.GERRY	DATE 6-85	TITLE RDRX CONTROLLER BOARD	
CHK'D T.MCCULLOUGH	DATE 6-85	DOCUMENT NUMBER	
DES. ENG R.HULTMAN	DATE 6-85	SIZE B / CODE DD / NUMBER M8639-0-0	REV. H
RESP. ENG R.HULTMAN	DATE 6-85		
MFG. ENG. N.COLLADO	DATE 6-85	SHEET 1 OF 1	

DRB 126C
EN-01242-16-REVA(396)

AUTOMATED BY PRTLST.4Q(50) — P A R T S L I S T — SHEET A1 OF A4

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION 00 C1	YA B1	YB C1	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:				
1	1	D-MD-5015649-0-0	5015649-00		CIRCUIT DRILL AND ETCH	1	1	-	
2	2		1000011-00		47.0 MMF 100V 5%200PPM MICA	1	1	1	C27
3	3		1001631-00		390.0 MMF 100V 5%200PPM MICA	1	1	1	C34
4	4		1013466-06		100.0 MMF 50V 5% CER	1	1	1	C43
5	5		1013466-31		15.0 MMF 50V 5% CER	1	1	1	C42
6	6		1014265-00		.22 MFD 50V +80-20% CER	32	32	32	C1-C4,C6-C11,C13-C18,C20-C26,
								CONT	C28-C33,C35,C44,C45
7	7		1017472-00		10 MFD 35V +75-10% AL EL	5	5	5	C5,C12,C19,C36,C37
8	8		1021174-07		.022 MFD 50V 10% CER	1	1	1	C39
9	9		1021174-05		.0015 MFD 100V 10% CER	1	1	1	C41
10	10		1021174-08		.22 MFD 50V 10% CER	1	1	1	C38
11	11		1021174-06		.015 MFD 50V 10% CER	1	1	1	C40
12	12		1103041-00		PIV= 8 IO= 50 MA	6	6	6	D1-D6
13	13		1112689-00		LED .8MCD@16MA VF=5V	4	4	4	D7-D10
14	14		1212385-00		SKT,IC 40PIN DIP GOLD SOLD	1	1	1	XE65
15	15		1213113-01		HANDLE,MODULE,	1	1	1	
16	16		1215006-04		SKT,IC 20PIN DIP TIN SOLD	10	10	10	XE18-XE20,XE33,XE52,XE54,
								CONT	XE68-XE70,XE77
17	17		1215006-07		SKT,IC 28PIN DIP TIN SOLD	2	2	2	XE105,XE106
18	18		1209941-07		PCB,HEADER 50PIN(2X25).100CC 90D	1	1	1	J1
19	19		1216862-04		PCB,HEADER 16POS(2X08).100CC STR	1	1	1	J2
20	20		1216862-05		PCP,HEADER 30POS(2X15) STR	1	1	1	J3
21	21		1218783-00		JUMPER 02POS(1X02).100CC	5	5	-	JA3,JA5,JA6,JA10,JA12
			CONT			-	-	7	JA3,JA5,JA6,JA10,JA12,JB4,JB5
22	22		1219911-01		SKT,IC 24PIN DIP	10	10	10	XE22-XE28,XE48,XE49,XE108
23	23		1300229-00		100.0 .25 W 5.0 % CF	12	12	-	R1-R8,R10,R15,R16,R18
			CONT			-	-	13	R1-R8,R10,R15,R16,R18,R49
24	24		1300316-00		470.0 .25 W 5.0 % CF	5	5	5	R29,R30,R36,R42,R44
25	25		1300365-00		1.0 K .25 W 5.0 % CF	4	4	4	R9,R12-R14
26	26		1301322-00		180.0 .25 W 5.0 % CF	4	4	4	R26,R27,R33,R35

REVISION HISTORY

ENG	ECO NUMBER	REV
	INITIAL	A
RH	M8639-ML001	B
DM	M8639-ML002	C
RM	M8639-ML003	D
RM	M8639-ML005	E
RM	M8639-ML006	F
RE	M8639-TW007	H

BASIC PART NO: M8639

SECTION A OF A

SECTION.VARIATION INDEX
[A] 00,YA,YB
[B]
[C]
[D]
[E]
[F]
[H]
[J]
[K]
[L]
[M]
[N]

DRN: RITA BUREAU — DATE: 12-MAY-83

CHK'D: DAVE ZOPF — DATE: 09-MAY-83

DES.ENG: RICH HULTMAN — DATE: 09-MAY-83

RESP.ENG.: RICH HULTMAN — DATE: 09-MAY-83

MFG.ENG.: N. COLLADO — DATE: 18-MAY-83

ASSEMBLY NUMBER: D-UA-M8639-0-0

TOP DOCUMENT NUMBER: B-DD-M8639-0-0

D I G I T A L

TITLE PARTS LIST
RDRX CONTROLLER BD.

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV
K	PL	M8639-0-DBP	H

RELEASE DATE: 10-SEP-85

FILE NAME: Z5314H.PLS

EDIT # 15

AUTOMATED BY PRTLST.4Q(50) — P A R T S L I S T — SHEET A2 OF A4

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION 00	YA	YB	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:	C1	B1	C1	
27	27		1301775-00		820.0 .25 W 5.0 % CF	2	2	2	R23,R31
28	28		1301972-00		270.0 .25 W 5.0 % CF	4	4	4	R24,R25,R32,R34
29	29		1302377-00		*** THIS ITEM IS NOT USED ***	-	-	-	
30	30		1303047-00		464.0 .25 W 1.0 % RN55D-F10	1	1	1	R37
31	31		1303114-00		1.0 K .25 W 1.0 % RN55D-F10	2	2	2	R11,R40
32	32		1303312-00		10.0 K .25 W 1.0 % RN55D-F10	2	2	2	R38,R46
33	33		1311003-01		R NETWORK 14-180 14-390 16PIN	1	1	1	E15
34	34		1311003-02		R NETWORK 14-330 14-680 16PIN	1	1	1	E1
35	35		1311594-00		30.10 K .25 W 1.0 % RN55D-F10	1	1	1	R47
36	36		1312989-00		17.80 K .25 W 1.0 % RN55D-F10	1	1	1	R41
37	37		1313153-00		28.0 K .25 W 1.0 % RN55D-F10	1	1	1	R39
38	38		1313596-00		20.0 K .25 W 1.0 % RN55D-F10	1	1	1	R48
39	39		1316395-00		R NETWORK 9-4.7K 2.0 % 10PIN	1	1	1	R17
40	40		1316842-00		6.34 K .25 W 1.0 % RN55D-F10	2	2	2	R43,R45
41	41		1321767-01		R NETWORK 7-150 2.0 % 8PIN	1	1	1	R21
42	42		1321380-01		R NETWORK 9-470 2.0 % 10PIN	1	1	1	R22
43	43		1512971-00		*** THIS ITEM IS NOT USED ***	-	-	-	
44	44		1517999-00		3906 PNP 900MW ARRAY 14PIN	1	1	1	E118
45	45		1602723-02		270 UH 5% 260MA	1	1	-	L1
46	46		1616653-00		DELAY= 50NS,10TAPS WITH TTLBU	2	2	2	E85,E101
47	47		1621100-01		DELAY= 48 NS 14PIN SIP	2	2	2	E121,E122
48	48		1811660-01		OSCILLATOR, XTAL 10.000 MHZ	1	1	1	E75
49	49		1811660-36		OSCILLATOR, XTAL 7.500 MHZ	1	1	1	E89
50	50		1909928-00		7416 INVERTER GATE-HEX 1I	1	1	1	E41
51	51		1910534-00		74S04 INVERTER GATE-HEX 1I	2	2	2	E74,E84
52	52		1910542-00		74S64 A-O-I GATE 4-2-3-2	3	3	3	E96,E110,E115
53	53		1910544-00		74S74 FF-D DUAL,EDGE TRIGG	3	3	3	E109,E114,E116
54	54		1910545-00		74S112 FF-JK DUAL,EDGE TRIG	1	1	1	E117
55	55		1910548-00		74S157 MUX 1 OF 2 (QUAD)	1	1	1	E111
56	56		1910956-00		74S151 MUX 1 OF 8	1	1	1	E102
57	57		1910957-00		74S175 FF-D QUAD COMMON CLO	1	1	1	E103
58	58		1911402-00		10105 OR/NOR GATE,2-3-2	1	1	1	E119
59	59		1911416-00		10131 FF, DUAL D MSTR/SLAV	1	1	1	E123
60	60		1911579-00		/REPLACED BY 19-14987-00	3	3	3	E2,E4,E16
61	61		1912648-00		LS251 MUX 8 INPUT,TRI-STA	3	3	3	E5,E6,E21
62	62		1912697-00		LS174 FF-D HEX W/CLEAR	2	2	2	E55,E104
63	63		1912730-00		DC 003 INTERRUPT,2 CIRCUIT	1	1	1	E3
64	64		1912799-00		LS00 NAND-GATE-QUAD 2IN,P	1	1	1	E72
65	65		1912801-00		LS02 NOR-GATE-QUAD 2IN	1	1	1	E87
66	66		1912803-00		LS04 INVERTER GATE,HEX	1	1	-	E58
67	67		1912815-00		LS30 NAND GATE-SINGLE 8IN	1	1	1	E100
68	68		1912820-00		LS51 A-O-I GATE 2-WIDE 2I	1	1	1	E81
69	69		1912824-00		LS74 FF-D DUAL,EDGE TRIGG	3	3	-	E17,E71,E94
			CONT			-	-	2	E17,E71
70	70		1912834-00		LS112 FF-JK,DUAL,EDGE TRIG	1	1	1	E7
71	71		1912842-00		LS138 DECODER-THREE INPUT,	2	2	2	E92,E93
72	72		1912844-00		LS151 MUX 1 OF 8 & DATA	1	1	1	E39
73	73		1912845-00		LS153 MUX 1 OF 4 (DUAL)	1	1	1	E98

	TITLE		SIZE	CODE	DOCUMENT NUMBER	REV
D I G I T A L	RDRX CONTROLLER BD.	SECTION A OF A	K	PL	M8639-0-DBP	H

AUTOMATED BY PRTLST.4Q(50)

P A R T S L I S T

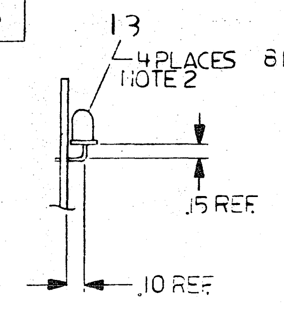
LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	VARIATION REVISION LEVEL:	QTY PER VARIATION 00 C1	YA B1	YB C1	REFERENCE DESIGNATOR
74	74		1912848-00		LS158	MUX 1 OF 2 (QUAD)	1	1	1	E76
75	75		1912849-00		LS161	COUNTER,SYNCHR,4BIT	1	1	1	E83
76	76		1912850-00		LS164	SHIFT REG. 8BIT SERI	2	2	-	E9,E112
			CONT				-	-	1	E9
77	77		1912853-00		LS175	FF-D QUAD	2	2	2	E67,E80
78	78		1912863-00		LS273	FF-D OCTAL W/CLEAR	3	3	3	E14,E29,E30
79	79		1913040-00	DC	005	TRANSCEIVER 4BIT	4	4	4	E43,E44,E56,E57
80	80		1913414-00		LS14	INVERTER GATE-HEX SC	1	1	1	E8
81	81		1913474-00		9401	GENERATOR/CHECKER CR	1	1	1	E82
82	82		1913777-00		LS240	DRIVER,LINE,OCTAL,TR	3	3	-	E13,E62,E95
			CONT				-	-	4	E13,E62,E95,E58
83	83		1913839-00		LS165	SHIFT REG.,8BIT	1	1	1	E11
84	84		1914214-00		LS374	FF-D OCTAL EDGE TRIG	8	8	8	E10,E12,E34,E36,E37,E45,E46,E59
85	85		1915123-03		26LS32-3	RECEIVER,LINE RS232	1	1	1	E38
86	86		1915193-00		LS244	DRIVER,LINE,OCTAL,TR	1	1	1	E66
87	87		1915218-00		LS245	TRANSCEIVER,BUS,OCTA	3	3	3	E35,E47,E61
88	88		1915219-00		LS373	FF-D OCTAL-TRANSPARE	1	1	1	E53
89	89		1915234-00		LS390	COUNTER,DECADE,DUAL,	1	1	1	E97
90	90		1915417-00		9638	DRIVER,DUAL,EIA RS-	1	1	1	E42
91	91		1916581-00		347	OP AMP,QUAD,JFET	1	1	1	E124
92	92		1919015-00	DC	021	BUS TRANSCEIVER,20PI	1	1	1	E32
93	93		1920895-01		LS626	OSCILLATOR,DUAL,VOLT	1	1	1	E107
94	94		1920945-01		2942	PROGRAMMABLE TIMER/C	4	4	4	E50,E51,E63,E64
95	95		1921008-01		74F240	BUFFER/LINE DRIVER,I	2	2	2	E31,E40
96	96		1921314-01		74F74	FF-D,DUAL,POS.,EDGE	2	2	-	E73,E86
			CONT				-	-	5	E73,E86,E94,E125,E126
97	97		1921419-01		10H102	NOR GATE,QUAD 2IN	1	1	1	E120
98	98		1921425-01		LS292	DIVIDER/TIMER,PROG.	2	2	2	E99,E113
99	99		1921518-01		LS163	SYNCHRONOUS COUNTER,	4	4	4	E60,E88,E90,E91
100	100		2117311-01		T-11	MICROPROCESSOR W/LSI-	1	1	1	E65
101	101		2117872-02			RAM 2KX8 I/O MUXD 12	2	2	-	E78,E79
102	102		23040K4-00		K4-01		1	1	1	E18
103	103		23041K4-00		K4-01		1	1	1	E33
104	104		23074K3-00		K3-01	PAL REG	1	1	-	E68
105	105		23075K3-00		K3-01	PAL,REG	1	1	1	E69
106	106		23097J5-00		J5-01	PAL,LOGIC	1	1	1	E19
107	107		23098J5-00		J5-01	PAL,LOGIC DRIV	1	1	-	E20
108	108		23099J5-00		J5-01	PAL,LOGIC	1	1	1	E52
109	109		23100J5-00		J5-01	PAL,LOGIC	1	1	1	E54
110	110		23101J5-00		J5-01	PAL,LOGIC	1	1	1	E70
111	111		23102J5-00		J5-01	PAL,LOGIC	1	1	1	E77
112	112		23105D2-00		D2-02		1	1	1	E108
113	113		23238E4-00		*** THIS ITEM IS NOT USED ***		-	-	-	
114	114		23239E4-00		*** THIS ITEM IS NOT USED ***		-	-	-	
115	115		23193F3-00		F3-04		1	1	-	E22
116	116		23194F3-00		F3-04		1	1	-	E23
117	117		23195F3-00		F3-04		1	1	-	E24
118	118		23196F3-00		F3-04		1	1	-	E25

	TITLE		SIZE	CODE	DOCUMENT NUMBER	REV
D I G I T A L	RDRX CONTROLLER BD.	SECTION A OF A	K	PL	M8639-0-DBP	H

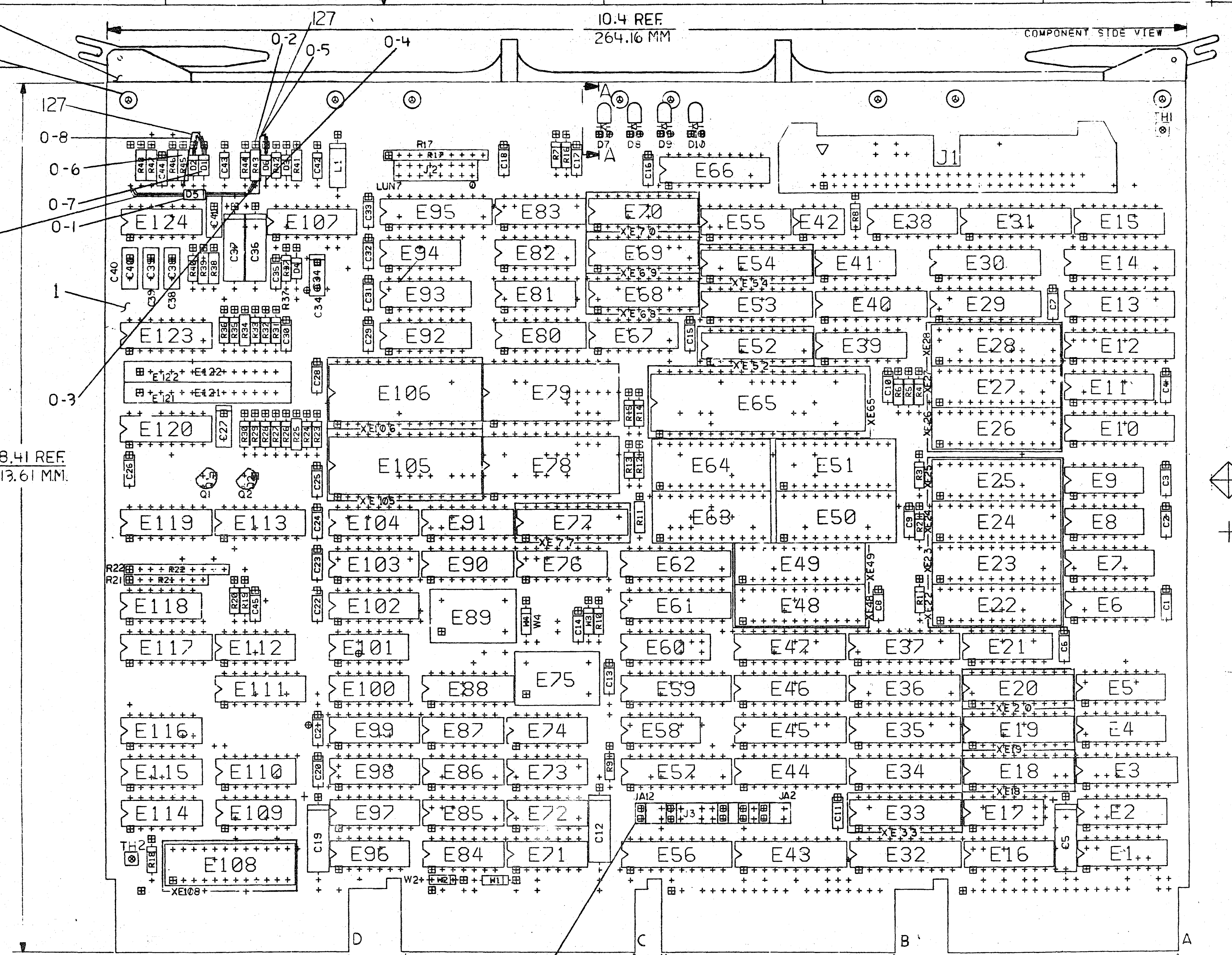
AUTOMATED BY PRTLST.4Q(50) — P A R T S L I S T — SHEET A4 OF A4

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION 00 C1	YA B1	YB C1	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:				
119	119		23197F3-00		F3-04	1	1	-	E26
120	120		23198F3-00		F3-04	1	1	-	E27
121	121		23199F3-00		F3-04	1	1	-	E28
122	122		23200F3-00		F3-04	1	1	-	E48
123	123		23201F3-00		F3-04	1	1	-	E49
124	124		9000024-01		EYELET,ROLLED 0.1210DX0.192	8	8	8	
125	125		9009185-00		JUMPER, WIRE, INSULATED, BLACK B	4	4	4	W1-W4
126	126		9107256-00		TUBING,TEFLON .027ID	A/R	A/R	-	
127	127		9105740-55		WIRE(WRAP) 30AWG KYNAR UL14	A/R	A/R	-	
128	128		1312928-00		51.0 .25 W 5.0 % CF	3	3	3	R19,R20,R28
129	129		1509525-00		2N 3906 PNP 310MW SI 40100 Y	2	2	2	Q1,Q2
130	130		23264E4-00		E4-06,E4-07 ROM	1	-	-	E106
131	131		23265E4-00		E4-06,E4-07 ROM	1	-	-	E105
132	132		23173E5-00		E5-02,E5-03 U	-	1	1	E105
133	133		23172E5-00		E5-02,E5-03 U	-	1	1	E106
134	134		5015649-02		CIRCUIT DRILL AND ETCH	-	-	1	
135	135		1216862-06		PCB,HEADER 02POS(2X01).100CC STR	-	-	2	J4,J5
136	136		1909929-00		7417 BUFFER GATE-HEX 1INP	-	-	1	E127
137	137		1912536-01		7805 VOLT REG,FIX +5V	-	-	1	Z1
138	138		2121384-02		RAM 8KX8,STATIC 150	-	-	2	E78,E79
139	139		23100K3-00		*** THIS ITEM IS NOT USED ***	-	-	-	
140	140		9006010-01		SCREW,MACH PAN PHIL 4-	-	-	1	
141	141		9009990-00		NUT,HEX EXT TOOTH LCKWSHR 4-40	-	-	1	
142	142		23103J5-00		*** THIS ITEM IS NOT USED ***	-	-	-	
143	143		23224F3-00		F3-04	-	-	1	E22
144	144		23225F3-00		F3-04	-	-	1	E23
145	145		23226F3-00		F3-04	-	-	1	E24
146	146		23227F3-00		F3-04	-	-	1	E25
147	147		23228F3-00		F3-04	-	-	1	E26
148	148		23229F3-00		F3-04	-	-	1	E27
149	149		23230F3-00		F3-04	-	-	1	E28
150	150		23231F3-00		F3-04	-	-	1	E48
151	151		23232F3-00		F3-04	-	-	1	E49
152	152		23115K3-00		K3-01 PAL,REG	-	-	1	E68
153	153		23207J5-00		J5-01 PAL,LOGIC	-	-	1	E20
154	154		1922480-B1		74F164 SERIAL IN PARALLEL O	-	-	1	E112

DIGITAL	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
	RDRX CONTROLLER BD.	A OF A	K	PL	M8639-0-DBP	H



VIEW A - A



REWORK INSTRUCTIONS
(SEE NOTE 4)

- 0-1 SOLDER ANODE OF D5 TO BOTTOM PTH FOR D5 USE TUBING ITEM#126 ON D5 LEADS (SEE NOTE 3)
- 0-2 SOLDER TOP LEAD OF R43 TO TOP PTH FOR R43
- 0-3 SOLDER CATHODE OF D5 TO BOTTOM LEAD OF R43 USE TUBING ITEM#126 ON LEAD (SEE NOTE 3)
- 0-4 SOLDER ANODE OF D6 TO BOTTOM PTH FOR D6
- 0-5 SOLDER JUMPER FROM D5, R43 CONNECTION TO CATHODE OF D6 USE TUBING ITEM#126 ON D6 LEAD
- 0-6 SOLDER TOP LEAD OF R45 TO PTH FOR R45
- 0-7 SOLDER ANODES OF D1 AND D2 TO THEIR PTH'S SOLDER CATHODES OF D1 AND D2 TOGETHER USE TUBING ITEM # 126 ON LEADS
- 0-8 SOLDER JUMPER FROM BOTTOM LEAD OF R45 TO CATHODES OF D1 AND D2 USE TUBING ITEM# 126 ON BOTTOM LEAD OF R45

NOTES:
1. JUMPER ITEM 21 TO BE INSERTED AT J3 LOCATIONS JA3, JA5, JA6, JA10, JA12.
2. MOUNT LEDS D7-D10 AS SHOWN.
3. LEADS OF D5 MUST BE OF EQUAL LENGTH
4. LEAD LENGTHS ARE CRITICAL AND SHALL BE KEPT AS SHORT AS POSSIBLE.

STEP & REPEAT	↑ Y AXIS ____ STEP ____ TIMES
	→ X AXIS ____ STEP ____ TIMES

CHK	CHANGE NO	REV

ETCH REV. E1

SIGNATURES		DATE
DRN.	[signature]	[illegible]
CHK'D.	[signature]	[illegible]
MECH. ENG.	[signature]	16 Mar 83
PROJ. ENG.	[signature]	[illegible]
PROD.	[signature]	[illegible]
SCALE 1:1		
SHT. 1 OF 1		
NEXT HIGHER ASSY.	S-DI M8639-0-0	

digital

TITLE RDRX CONTROLLER

SIZE	CODE	NUMBER	REV
D	UA	M8639-0-0	A

ML3 1 WO# 275178

D UA M8639-0-0 A

SIZE D | CODE CS | M8639-0-1 | REV -

+5V
R33 180
R32 270
R31 820
R34 270
R35 180
+3V
47.5NS
E122
10H102 E120
10105 E119
MPQ3906 E118
R PACK R21 150
R19 51
(10MRAWOSC L)
1.4 10MRAWOSC H
74LS151 E39
STB
D7 D6 D5 D4 D3 D2 D1 D0
S2 S1 S0
F1 F0
74F74 E86
1C2 INITDVDR L
8B7 FLPYRDDAT H
8C7 WINYIRDAT H
8C7 WINYORDAT H
3B3 WRTGATE H
8B5 SELFLOPY H
8B5 SELWINCH 1 H
10131 E123
R PACK R22 470
C26 .22µF
R26 180
R25 270
R92 470
R PAC R22 470
C27 47PF
R36 470
R30 470
Q1 DEC3906
Q2 DEC3906
R28 51
R27 180
R24 270
R23 820
4C2 RSTTIMER H
+12V
C35 .22µF
C37 10µF
NOTE: ▽ SIGNIFIES A SINGLE RETURN PATH BACK TO SPG. NO OTHER GROUND RETURN CURRENTS ARE TO FLOW INTO THIS PATH.
C41 .0015µF
R37 464 - 1%
C39 .022 µF
R42 470
D6 FD777
D5 FD777
R43 6.34K 1%
LF347 E124
C40 .015µF
R40 1K-1%
C38 .22UF
R42 470
D3 FD777
D4 FD777
1A1 PMPUP L
R41 17.8K 1%
R39 28.1K 1%
NOTE: PC GUARD AROUND TRACE. REMOVE GND PLANE UNDERNEATH TRACE
C43 100PF
R46 10K-1%
R38 10K 1%
D1 FD777
D2 FD777
1B1 PMPDWN L
NOTE: GND PLANE REMOVED UNDERNEATH TRACE FOR THIS APPLICATION
R44 470
R45 6.34K 1%
L1 270UH ±5%
C12 10µF
C31 .22µF
C33 .22µF
C36 10µF
R48 20K-1%
R47 30.1K-1%
5V REF
C42 15PF
C34 390PF
74LS626 E107
E1 FC1 1CX1 1CX2 E2 FC2 2CX1 2CX2 AV AG
Y1 Z1 Y2 Z2
8B5 SELFLOPY L
8B5 SELFLOPY H
(20MHZVCO L)
(1MHZVCO L)
(1MHZVCO H)
(20MHZVCO H)
74S157 E111
A0 B0 A1 B1 A2 B2 A3 B3 S0 STB
F0 F1 F2 F3
10MRAWOSC H
1C3 DLQRDDATA H
2A4 RDDATA H
74LS04 E58
1A5 DLQRDDATA H
6D6 CONTRCLK H
2B8 SERLSRCLK H
2A8
STB1 STB0 74LS153 E98
1D7 INITDVDR L
74LS02 E87
74LS390 E97
DA1 DA2 DB1 DB2 CLR1 CLR2
RA1 RA2 RA3 RA4 RB1 RB2 RB3 RB4
74S74 E116
74S112 E117 ÷2
74S112 E117 ÷4
2B4 AWINDOW H
2A4 BWINDOW H
1B8 PMPUP L
74S64 E115
74S04 E74

REVISION HISTORY			
DATE	ECO NUMBER	REV.	
16-Jun-83	M8639-ML001	B	R. HULTMAN
4-Jan-84	M8639-ML002	C	
16-Jun-84	M8639 ML003	D	D. MILLER

DRW	DATE 5-30-83	TITLE digital
CHK'D	DATE 6-7-83	RDRX CONTROLLER BOARD
DES. ENG.	DATE 1-14-83	
RESP. ENG.	DATE 6-14-83	DOCUMENT NUMBER
MFG. ENG. Wayne Peat	DATE 6-10-83	SIZE D | CODE CS | NUMBER M8639-0-1 | REV -
NEXT HIGHER DOC B-DD-M8639-0-0		SCALE | SHEET 1 OF 3

DRD 102E

74LS74 E71 — 3D3 W/RBUFFLG H — +3V
74LS04 E58
74LS175 E67 — 3B2 RQCHKWORD H, 3B2 RQCRCPSET H, 3B2 RQADRMARK H, 3B2 RQLASTWRD H, 3B2 LDBYTECTL H — RQCW H, RQPSET H, RQADM H, RQLSTWD H
74LS175 E80 — 2B7 SELCHKWRD L, 2B8 ENCRCPSET H
2B6 CRCDOUT H — 74LS51 E81 — 2A5 UPSTRMNRZ L
2C2 OVFL H — 74S04 E84 — 2B4 OVFL L
6D3 DAL0 H, 6D3 DAL1 H, 6D3 DAL2 H, 6D3 DAL3 H, 6D3 DAL4 H, 6D3 DAL5 H, 6D3 DAL6 H, 6D3 DAL7 H
74S04 E84 — 2C4 Z2 H
2C6 SLOADPISO L
74LS164 E9 — (SIPOQA H) … (SIPOQH H) — 2A4 NRZRDDATA H, +3V
74LS374 E10 — 3B4 ENSIPO L
74LS374 E12 — 3B7 LDPISOBUF H — (PISOQA H) … (PISOQH H)
SER SHIFT LD — 74LS165 E11 — 2B7 NRZOUT H
+5V — 5NS TAP E85
(LOAD REGS L)
74LS164 E112 — 6D6 BCLR H — 2D4 OVFL H (750NS H) (500NS H) (375NS H) (250NS H) (125NS H)
74S151 E102 — 8A5 WRTDATA H
885 SELFLOPY H — 2C6 CLRSRLSR — 2C4 Z1 L — 74S04 E84 — 2B4 Z1H
+5V — 5NS/TAP E101 — 2A7 MFMWRT H
16L8 E70 — (SERCLK H), (BITCNTR=8 H), (CENTER L), (BNDRY L), (SVD L), (SVC L), (SVB L), (SVA L) — 2A7 LOADREGS H, 2C3 CLRS RLSR L, 2D2 SLOADPISO L
16R4 E69 — 3B2 REQWRITE H, 3B2 REQREAD H, 4D4 RESETCTL L, 2A5 ADRMRKFND H, 1C1 SERLSRCLK H
74LS161 E83 — +3V — 74LS51 E81
74S04 E74
74S64 E96 — 2D1 Z2 H, 2B3 Z1 L, 2A7 MFMWRT H, 2D4 OVFL L, 2B2 Z1 H
74S64 E110 — 2A7 MFMWRT H, 2D1 Z2 H, +3V, 2D4 OVFL L, 2B2 Z1 H
(CLRSERLSR H) — 74S04 E84
R16 100
(EN BLCENTR L), (EN BLBNDRY L)
74LS02 E87 — 2D6 ENCRCPSET H, 885 SELPRECM 0 H, 885 SELPRECM 1 H, 885 SELFLOPY H
16R4 E68 — 2A1 MUXSELC L, 2A1 MUXSELB L, 2A1 MUXSELA L
9401 E82 — 2D1 NRZOUT H, 2D6 SELCHKWRD L, +3V — 2D6 CRCDOUT H, 1C1 SERLSRCLK H, 3D3 CRCERROR H
27S25 E108 — 1B3 BWINDOW H, 8C2 DIAGMODE H, 2D5 UPSTRMNRZ L
16L8 E20 — 2B8 ADRMRKFND H — 2D5 NRZRDDATA H
74S74 E109 — 1B3 AWINDOW H — 1B4 RDDATA H, 1B3 BWINDOW H
74S74 E114
74S175 E103 — 2A7 MUXSELA L, 2A7 MUXSELB L, 2A7 MUXSELC L — (ANRZDAT H), (BNRZDAT H)
74S04 E74 — 2C4 MFMWRT H, 2C6 LOADREGS H

REVISION HISTORY

DATE	ECO NUMBER	REV.

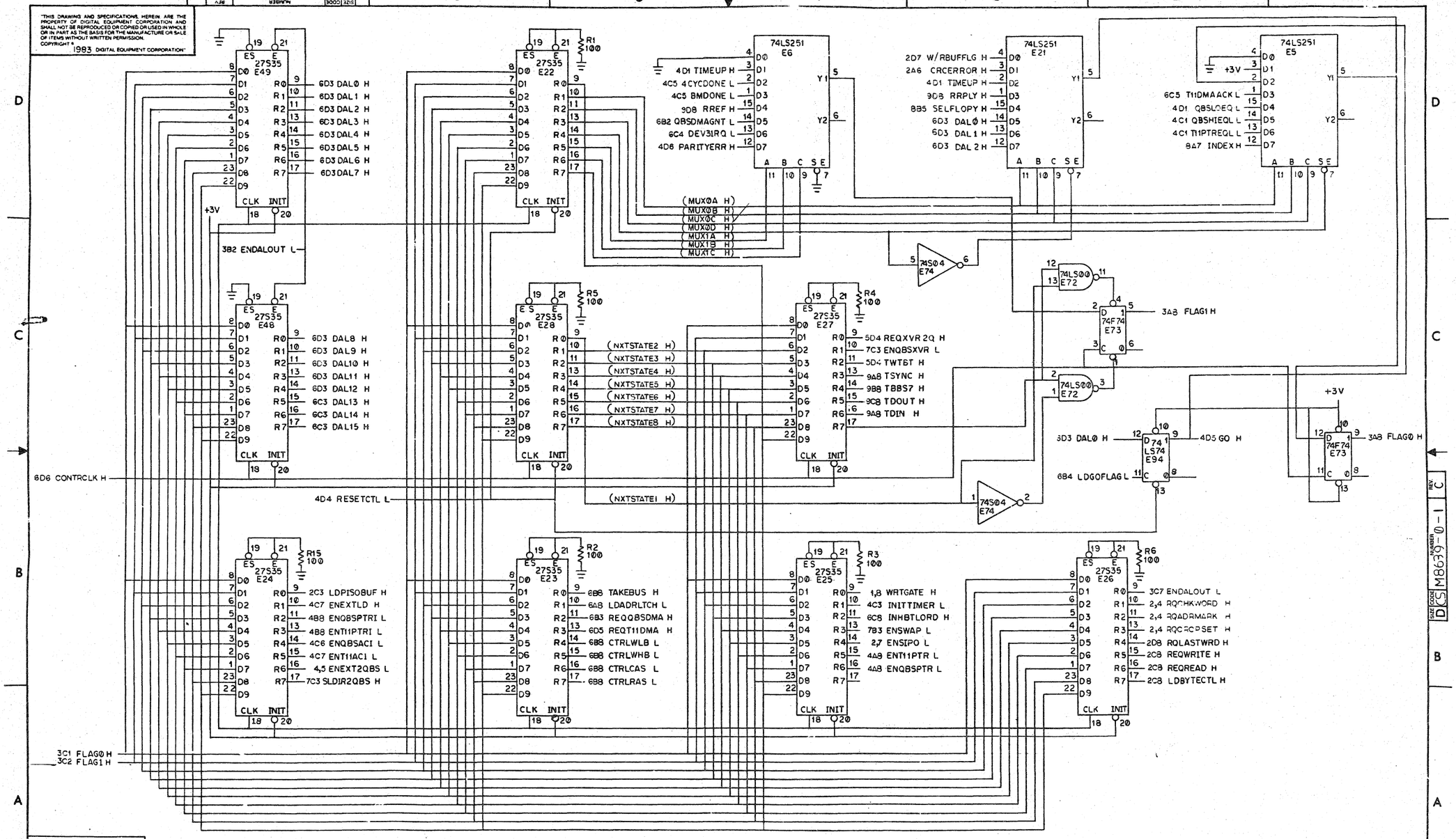
DRD 138A

TITLE: RDRX CONTROLLER BOARD

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV.
D	CS	M8639-0-1	D

SCALE — SHEET 2 OF 9



REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE RDRX CONTROLLER BOARD

DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV
D	CS	M8639-0-1	C

SCALE — SHEET 3 OF 9

DRD 138A

+3V
9A8 TDIN H
5C3 XQDAL16 H
5C3 XQDAL17 H
74LS112 E7
74LS00 E72
74LS04 E58
3D5 PARITYERR H
6B5 RSTPTYFLG L
74LS292 E99
6D6 BCLR H
74LS02 E87
2,3 RESETCTL L
3C2 GO H
6D6 T11CLOCK H
74LS174 E104
74LS292 E113
9D6 RPOK L
3,8 TIMEUP H
1D3 10MRAWOSC H
6B4 LDTIMER L
6B4 CLRTIMER L
3B4 INITTIMER L
1C6 RSTTIMER H
+5V
R13 1K
R12 1K
R14 1K
3D2 OBSLOEQL L
3,4 TMPTREQL L
3D2 QBSHIEQL L
16R6 E33
16R6 E18
387 ENEXTLD H
986 RINIT H
387 ENEXT2QBS L
5C3 XQDAL16 H
5C3 XQDAL17 H
5C3 XQDAL18 H
5C3 XQDAL19 H
5C3 XQDAL20 H
5C3 XQDAL21 H
9C6 RDMR H
5C2 RINIT L
4C1 T11PTREQL L
3B4 ENQBSPTR L
3D5 4CYCDONE L
3D5 BMDONE L
2942 E50
2942 E51
2942 E63
2942 E64
387 ENT11ACI L
387 ENQBSACI L
6D6 CONTRCLK H
387 ENQBSPTRI L
387 ENT11PTRI L
3B2 RQCRCPSET H
3B2 RQADRMARK H
3B2 RQCHKWORD H
3B4 ENQBSPTR L
3B4 ENT11PTR L
6D3 DAL7 H
6D3 DAL6 H
6D3 DAL5 H
6D3 DAL4 H
6D3 DAL3 H
6D3 DAL2 H
6D3 DAL1 H
6D3 DAL0 H
6C3 DAL15 H
6C3 DAL14 H
6C3 DAL13 H
6C3 DAL12 H
6D3 DAL11 H
6D3 DAL10 H
6D3 DAL9 H
6D3 DAL8 H

REVISION HISTORY		
DATE	ECO NUMBER	REV.

DRD 138A

TITLE RDRX CONTROLLER BOARD

DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV
D	CS	M8639-0-1	D
SCALE		SHEET 1 OF 9	

8 7 6 5 4 3 2 1
D C B A

D CS M8639-0-1 D

SIZE D | CODE DCS | NUMBER M8639-0-1 | REV D

74LS374 E34: 6D3 DAL0 H … 6D3 DAL7 H → XQDAL0 H … XQDAL7 H
74LS374 E37: XQDAL0 H … XQDAL7 H → 6D3 DAL0 H … 6D3 DAL7 H
74LS374 E39: 6D3 DAL8 H … 6C3 DAL15 H → XQDAL8 H … XQDAL15 H
74LS374 E36: XQDAL8 H … XQDAL15 H → 6D3 DAL8 H … 6D3 DAL15 H
74LS374 E45: 6D3 DAL0 H … 6D3 DAL7 H → 5,7 XQDAL0 H … 5,7 XQDAL7 H
74LS374 E46: 6D3 DAL8 H … 6C3 DAL15 H → 5,7 XQDAL8 H … 5,7 XQDAL15 H
74S04 E84
XMIT RCV DC005 E56: 5A7 XQDAL15 H, 5B7 XQDAL11 H, 5B7 XQDAL12 H, 5B7 XQDAL13 H, PIOADRDET H, +5V (W12, W11) → 8A2 BDAL15 L BV2, 8A2 BDAL11 L BR2, 8A2 BDAL12 L BS2, 6B1 REQVECTOR H, 8A2 BDAL13 L BT3
XMIT RCV DC005 E57: 5A7 XQDAL14 H, 5B7 XQDAL8 H, 5B7 XQDAL9 H, 5B7 XQDAL10 H (W10, W9, W8) → 8A2 BDAL14 L BU2, 8A2 BDAL08 L BM2, 8A2 BDAL09 L BN2, 8A2 BDAL10 L BP2
XMIT RCV DC005 E44: 5B7 XQDAL1 H, 5B7 XQDAL5 H, 5B7 XQDAL6 H, 5B7 XQDAL7 H (W7, W6, W5) → 8A3 BDAL01 L AV2, 8A2 BDAL05 L BJ2, 8A2 BDAL06 L BK2, 8A2 BDAL07 L BL2
XMIT RCV DC005 E43: 5B7 XQDAL0 H, 5B7 XQDAL2 H, 5B7 XQDAL3 H, 5B7 XQDAL4 H (W4, W3, W2) → 8A3 BDAL00 L AU2, 8A2 BDAL02 L BE2, 8A2 BDAL03 L BF2, 8A2 BDAL04 L BH2
MEN
16L8 E19: 3B7 ENEXT2QBS L; 9A6 RDIN H, 9C6 RDOUT, 3C4 REQXVR2Q H, 3C4 TWTBT H, 6B1 RSYNC H, 6B4 REQVECTOR H → 6C6 PIOIPWRT L, 6D6 PIOIPRD L, 5A8 ENSARD L, 5,6 PIOSAWRT L, 9D8 TRPLY H
DC21 E32: 8C3 BDAL16 L, 8C3 BDAL17 L, 8C2 BDAL18 L, 8C2 BDAL19 L, 8C2 BDAL20 L, 8C2 BDAL21 L, 8A3 BWTBT L → 4C6 XQDAL16 H … 4C6 XQDAL21 H
74LS74 E17: +3V, 5B7 XQDAL1 H → 6C6 PIOIPWRT L; +3V, 9A6 RSYNC H, 5C2 RINIT L → 6D6 PIOIPRD L
74LS112 E7: +3V, 6C4 INIT+IPWT L → 3B7 ENEXT2QBS L
74LS14 E8: 9B6 RBBS7 H → 6B4 LDVECTOR L
6B5 ENPIOSA L; 5D3 PIOSAWRT L; 5D3 ENSARD L; 6B4 LDPIOSA L
R9 1K

REVISION HISTORY		
DATE	ECO NUMBER	REV.

DRD 138A

TITLE RDRX CONTROLLER BOARD

DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV
D	CS	M8639-0-1	D
SCALE		SHEET 5 OF 9	

REV C
NUMBER 1-0-0-6639-M
SIZE CODE D

74LS240 E62
DA1 DA2 DA3 DA4 DB1 DB2 DB3 DB4 EN-A EN-B
YA1 YA2 YA3 YA4 YB1 YB2 YB3 YB4
2,4 BCLR H
8C7 BCLR L
1,3,4 CONTRCLK H
4D6 T11CLOCK H
6D3 DAL0 L
6D3 DAL8 L
6D3 DAL11 L
6C3 DAL14 L

+5V W4 7.5MHZ E89
+5V W3 10.2MZ E75
+3V
R10 100

16L8 E54
3B5 REQT11DMA H
6B5 DIAGINTR L
5D3 PIOSAWRT L
5D3 PIOIPRD L
6D3 DAL11 H
6D3 DAL10 H
6D3 DAL 9 H

74LS373 E53
DMR L 32
CP3 L 33
CP2 L 34
CP1 L 35
CP0 L 36
PF L

DCT11-AA E65
DAL0 H
DAL1 H
DAL2 H
DAL3 H
DAL4 H
DAL5 H
DAL6 H
DAL7 H
DAL8 H
DAL9 H
DAL10 H
DAL11 H
DAL12 H
DAL13 H
DAL14 H
DAL15 H
RDY
PUP
XTLI
BCLK
SEL0 6C5 SEL0 H
SEL1 6C5 SEL1 H
PI
WLB 6B8 T11WLB L
WHB 6B8 T11WHB L
CAS 6B8 T11CAS L
RAS 6C8 T11RAS L
COUT 6A2 COUT H
VCC
GND
XTLO
BGND
+5V R11 1K 1%

16L8 E77
6B7 MEMADR 2 H
6B7 MEMADR 3 H
6B7 MEMADR 4 H
(ENCSRS L)
7B5 WRTLOBYTE L
7B7 WRTHIBYTE L
7B5 ENLORAMOE L
7B7 ENHIRAMOE L
7B7 ENRAM L
7C8 MEMRD L
7C8 ENROM L
3B4 INHBTLORD H

74LS30 E100
6B3 MEMADR15 H
6B3 MEMADR14 H
6B3 MEMADR13 H
6B5 MEMADR12 H
6B5 MEMADR11 H
6B5 MEMADR10 H
6B5 MEMADR 9 H
6B6 MEMADR 8 H

16L8 E52
9D6 RPOK L
5D3 PIOPWRT L
6D3 DAL8 H
6C3 SEL0 H
6C3 SEL1 H
9B6 RINIT H
3D5 DEV3IRQ L
5B4 INIT+ LPWT L
3D2 T11DMAACK L

74LS158 E76
6C3 T11RAS L
3B5 CTRLRAS L
6C3 T11CAS L
3B5 CTRLCAS L
6C3 T11WHB L
3B5 CTRLWHB L
6C3 T11WLB L
3J5 CTRLWLB L
3B5 TAKEBUS H
6A8 RAS H

74LS138 E92
SEL A SEL B SELC
6D5 DIAGINTR L
8C3 LDSYSDISP L
4D7 RSTPTYFLG L
5C7 ENPIOSA L
8C8 ENDRVSTAT L
7A7 ENBLLUN L

74LS138 E93
8C7 LDDRVSEL L
6A6 LDDRVCTR L
3B2 LDGOFLAG L
5A8 LDPIOSA L
5C8 LDVECTOR L
(INTQBUS L)
4D4 LDTIMER L
4C3 CLRTIMER L

16L8 E20
9C6 RDMGI H
3B5 REQQBSDMA H
9A6 RSYNC H
9D8 RRPLY H
9B6 RINIT H
3D5 QBSDMAGNT L
9B8 TSACK H
9B8 TDMR H
9C6 TDMGO H

74LS163 E91
6D3 DAL1 H
6D3 DAL2 H
6D3 DAL3 H
6D3 DAL4 H
3B5 LDADRLTCH H
6C7 RAS H
6,7 MEMADR1 H
6,7 MEMADR2 H
6,7 MEMADR3 H
6,7 MEMADR4 H

74LS163 E90
6D3 DAL5 H
6D3 DAL6 H
6D3 DAL7 H
DAL8 H
6,7 MEMADR5 H
6,7 MEMADR6 H
6,7 MEMADR7 H
6,7 MEMADR8 H

74LS163 E60
6D3 DAL9 H
6D3 DAL10 H
6D3 DAL11 H
6D3 DAL12 H
6,7 MEMADR9 H
6,7 MEMADR10 H
6,7 MEMADR11 H
6,7 MEMADR12 H

74LS163 E88
6C3 DAL13 H
6C3 DAL14 H
6C3 DAL15 H
6,7 MEMADR13 H
6,7 MEMADR14 H
6,7 MEMADR15 H

DC003 E3
8A3 BIAKI L
BIAKI
BINIT
BDIN
RQSTB
ENA DAT
ENB DAT
ENA
CLK
ENA ST
BIRQ 8 AL2 3A3 BIRQ4 L
BIAKO 6 AN2 3A3 BIAKO L
INITO
VECTOR 5D4 REQVECTOR H
VEC RQST
ENB ST
ENB
CLK
6C3 COUT H
+5V E1 330 680

74F74 E66

9A6 RDIN H
74LS24 E59

REVISION HISTORY
DATE | ECO NUMBER | REV.

TITLE RDRX CONTROLLER BOARD
DOCUMENT NUMBER
SIZE D | CODE CS | NUMBER M6639-0-1 | REV D
SCALE | SHEET 3 OF 9

DRD 138A

SIZE D | CODE CS | NUMBER M8639-0-1 | REV C

6B7 MEMADR1 H
6B7 MEMADR2 H
6B7 MEMADR3 H
6B7 MEMADR4 H
6B6 MEMADR5 H
6B6 MEMADR6 H
6B6 MEMADR7 H
6B6 MEMADR8 H
6B5 MEMADR9 H
6B5 MEMADR10 H
6B5 MEMADR11 H
6B5 MEMADR12 H
6B3 MEMADR13 H
6B3 MEMADR14 H

27128 E105 — +5V — A0–A13, VPP, O0–O7, GND, CE PGM OE
27128 E106 — +5V — A0–A13, VPP, O0–O7, GND, CE PGM OE

6C7 ENROM L
+3V
6C7 MEMRD L

4016-12 E78 — A0–A10, D0–D7, CS WE OE
4016-12 E79 — A0–A10, D0–D7, CS WE OE

6C7 ENRAM L
6C7 WRTHIBYTE L
6C7 ENHIRAMOE L
6C7 WRTLOBYTE L
6C7 ENLORAMOE L

+5V
R17 SIP 4.7K
9 8 7 6

74LS240 E95 — DB4–DB1, DA4–DA3, DA2–DA1, YB4–YB1, YA4–YA1, EN-A, EN-B

LUN0 L
LUN1 L
LUN2 L
LUN3 L
LUN4 L
LUN5 L
LUN6 L
LUN7 L
2 3 4 5
+5V
R17 SIP 4.7K
6D5 ENBLLUN L

5B7 XQDAL0 H
5B7 XQDAL1 H
5B7 XQDAL2 H
5B7 XQDAL3 H
5B7 XQDAL4 H
5B7 XQDAL5 H
5B7 XQDAL6 H
5B7 XQDAL7 H
5B7 XQDAL8 H
5B7 XQDAL9 H
5B7 XQDAL10 H
5B7 XQDAL11 H
5A7 XQDAL12 H
5A7 XQDAL13 H
5A7 XQDAL14 H
5A7 XQDAL15 H

74LS245 E35 — B1–B8, A1–A8, DIR, ENB
74LS245 E61 — B1–B8, A1–A8, DIR, ENB
3A7 SLDIR2QBS H
3C4 ENQBSXVR L

74LS245 E47 — B1–B8, A1–A8, DIR, ENB
3B4 ENSIPO L
3B4 ENSWAP L

6D3 DAL0 H
6D3 DAL1 H
6D3 DAL2 H
6D3 DAL3 H
6D3 DAL4 H
6D3 DAL5 H
6D3 DAL6 H
6D3 DAL7 H
6D3 DAL8 H
6D3 DAL9 H
6D3 DAL10 H
6D3 DAL11 H
6D3 DAL12 H
6C3 DAL13 H
6C3 DAL14 H
6C3 DAL15 H

REVISION HISTORY		
DATE	ECO NUMBER	REV.

DRD 138A

TITLE RDRX CONTROLLER BOARD

DOCUMENT NUMBER
SIZE D | CODE CS | NUMBER M8639-0-1 | REV D
SCALE | SHEET 7 OF 13

SIZE D CODE CS NUMBER M8639-0-1 REV J

6D3 DAL0 H
6D3 DAL1 H
6D3 DAL2 H
6D3 DAL3 H
6D3 DAL4 H
6D3 DAL5 H
6D3 DAL6 H
6D3 DAL7 H
6D3 DAL8 H
6D3 DAL9 H
6D3 DAL10 H
6D3 DAL11 H
6D3 DAL12 H
6C3 DAL13 H
6C3 DAL14 H
6C3 DAL15 H

+5V — R18 100 — +3V

+5V — C5 C19 C29 10 µF — C1-C4, C6-C11, C13-C19, C20-C25, C26, C30, C32, C45 22UF

8C4 RD0WRTPRO L
8C4 RD1WRTPRO L
8C4 RD0RDY H
8C4 RD1RDY H
74LS244 E66 (DB1–DB4 → YB1–YB4, G2)
6B5 ENDRVSTAT L

74LS273 E14 (D1–D8 → R1–R8, CLK, CLR)
6C4 LDDRVSEL L
6D6 BCLR L

7416 E41 ×6 (open collector)
RX2WPTLED L
RX3WPTLED L
8C8 RD0WPTPRO L
8C8 RD1WPTPRO L
8C8 RD0RDY H
8C8 RD1RDY H

74LS174 E55 (D1–D6 → R1–R6, CLK, CLR)
6B5 LDSYSDISP L
6D6 BCLR L
2A5 DIAGMODE H

74LS244 E66 (DA1–DA4 → YA1–YA4, G1)
FIELD SERVICE LED'S +5V
LSB — D7 — D8 — D9 — D10 — MSB

J1

MFMRDDAT1 L
MFMRDDAT1 H
MFMRDDAT0 L
MFMRDDAT0 H
R7 100 — 26LS32 E38 — 1C8 WIN1RDAT H
R6 100 — 26LS32 E38 — 1C8 WIN0RDAT H

74LS273 E30 (D1–D8 → R1–R8, CLK, CLR)
SPARESEL H
1C8 SELWINCH1 H
1B6 SELFLOPY L

74F240 E31 (DB1–DB4 → YB1–YB4, DA1–DA4 → YA1–YA4, G1, G2)
DRVSEL1 L
DRVSEL2 L
DRVSEL3 L
DRVSEL4 L
RXMOTORON L
RX0WPTLED L
RX1WPTLED L

74S04 E74 — 1,2,3 SELFLOPY H

READDATA L
DVSLOACK L
DRVSLIACK L
SEEKCPLT L
READY L
WRTFAULT L
TRACK00 L
INDEX L
+5V — 220 / 330 ×8 — E15
74LS14 E8 — 1D8 FLPYRDDAT H
74LS14 E8 — 3D1 INDEX H
4D1 TIMEUP H

74LS273 E29 (D1–D8 → R1–R8, CLK, CLR)
2B8 SELPRECM0 H
2B3 SELPRECM1 H
3B3 WRTGATE H
8B4 LDDRVCTRL L

74F240 E40 (DB3, DB4, DA1–DA3, DA4, DB2, DB1 → YB3, YB4, YA1–YA3, YA4, YB2, YB1, G1, G2)
HEADSEL0 L
HEADSEL1 L
HEADSEL2 L
STEP L
DIRECTION L
REDUCWRT L
WRTGATE L
RXWRTDATA L

74LS240 E13 (DB1–DB4 → YB1–YB4, DA1–DA4 → YA1–YA4, G1, G2)

+5V — R17 4.7K — 1Ω

DRVBUSOE L

+5V — 9638 E42 — MFMWRTDT0 H, MFMWRTDT0 L
+5V — 9638 E42 — MFMWRTDT1 H, MFMWRTDT1 L
2C1 WRTDATA H

A		B		C		D	
AA1		BA1		CA1		DA1	
AB1		BB1	(BDCOK H) 6D2	CB1		DB1	
AC1	5C4 BDAL16 L	BC1	5C4 BDAL18 L	CC1		DC1	
AD1	5C4 BDAL17 L	BD1	5C4 BDAL19 L	CD1		DD1	
AE1	SPARE	BE1	5C4 BDAL20 L	CE1		DE1	
AF1	SPARE	BF1	5C4 BDAL21 L	CF1		DF1	
AH1	SPARE	BH1		CH1		DH1	
AJ1		BJ1		CJ1		DJ1	
AK1	SPARE	BK1		CK1		DK1	
AL1	SPARE	BL1		CL1		DL1	
AM1		BM1		CM1		DM1	
AN1	6C2 BDMR L	BN1	6C2 BSACK L	CN1		DN1	
AP1		BP1		CP1		DP1	
AR1	6D2 BREF L	BR1		CR1		DR1	
AS1	SPARE	BS1		CS1		DS1	
AT1		BT1		CT1		DT1	
AU1	SPARE	BU1		CU1		DU1	
AV1	SPARE	BV1	+5V	CV1		DV1	SPARE
AA2	+5V	BA2	+5V	CA2	+5V	DA2	+5V
AB2	SPARE	BB2	SPARE	CB2		DB2	
AC2		BC2		CC2		DC2	
AD2	+12V	BD2	+12V	CD2		DD3	
AE2	6D2 BDOUT L	BE2	5A4 BDAL02 L	CE2		DE2	
AF2	6D2 BRPLY L	BF2	5A4 BDAL03	CF2		DF2	
AH2	6B2 BDIN L	BH2	5A4 BDAL04 L	CH2		DH2	
AJ2	6B2 BSYNC L	BJ2	5B4 BDAL05 L	CJ2		DJ2	
AK2	5C4 BWTBT L	BK2	5B4 BDAL06 L	CK2		DK2	
AL2	6B1 BIRQ4 L	BL2	5B4 BDAL07 L	CL2		DL2	
AM2	6B2 BIAKI L	BM2	5C4 BDAL08 L	CM2	(CBIAKI L) W1	CM2	
AN2	6B1 BIAKO L	BN2	5C4 BDAL09 L	CN2	(CBIAKO L)	DN2	
AP2	6B2 BBS7 L	BP2	5C4 BDAL10 L	CP2	(CBDMGI L) W2	DP2	
AR2	6C2 BDMGI L	BR2	5D4 BDAL11 L	CR2	(CBDMGO L)	DR2	
AS2	6C2 BDMGO L	BS2	5D4 BDAL12 L	CS2		DS2	
AT2	6C1 BINIT L	BT2	5D4 BDAL13 L	CT2		DT2	
AU2	5A4 BDAL00 L	BU2	5C4 BDAL14 L	CU2		DU2	
AV2	5B4 BDAL01 L	BV2	5D4 BDAL15 L	CV2		DV2	

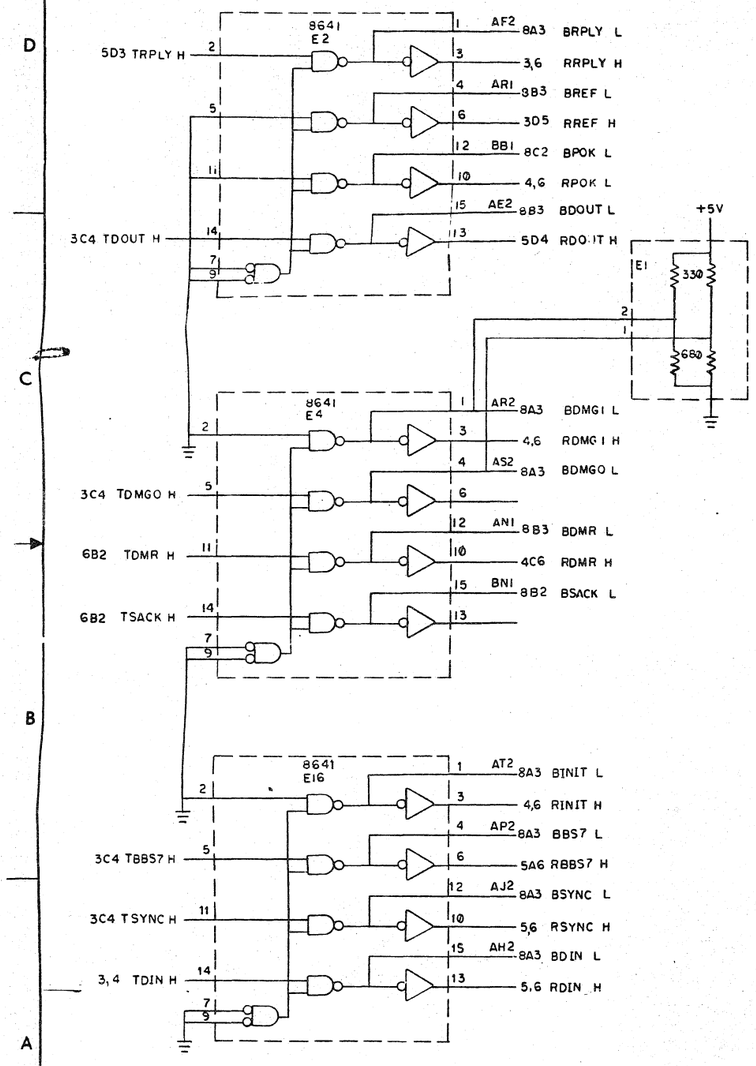
REVISION HISTORY

DATE	ECO NUMBER	REV

DRD 138A

TITLE RDRX CONTROLLER BOARD

DOCUMENT NUMBER: SIZE D, CODE CS, NUMBER M8639-0-1, REV. J
SCALE — SHEET 9 OF 9



REVISION HISTORY		
DATE	ECO NUMBER	REV.

DRD 138A

TITLE: RDRX CONTROLLER BOARD

DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV
D	CS	M8639-0-1	D
SCALE		SHEET 9	OF 9

SIZE	CODE	NUMBER	REV
B	DD	M9047-0-0	B

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS
		M9047-0D	GRANT CONTINUITY	A1 B1
D-UA-M9047-0-0	1		GRANT CONTINUITY UNIT ASSEMBLY	A B
D-CS-M9047-0-1	1		GRANT CONTINUITY SCHEMATIC	A A
K-PL-M9047-0-DBP	1		GRANT CONTINUITY PARTS LIST	A B
K-PC-M9047-0-DBT			P.C. DESIGN DATA BASE	A B
		5016679-01	ETCHED CIRCUIT BOARD	A1 B1
B-DD-5016679-0-0			DRAWING DIRECTORY	A B

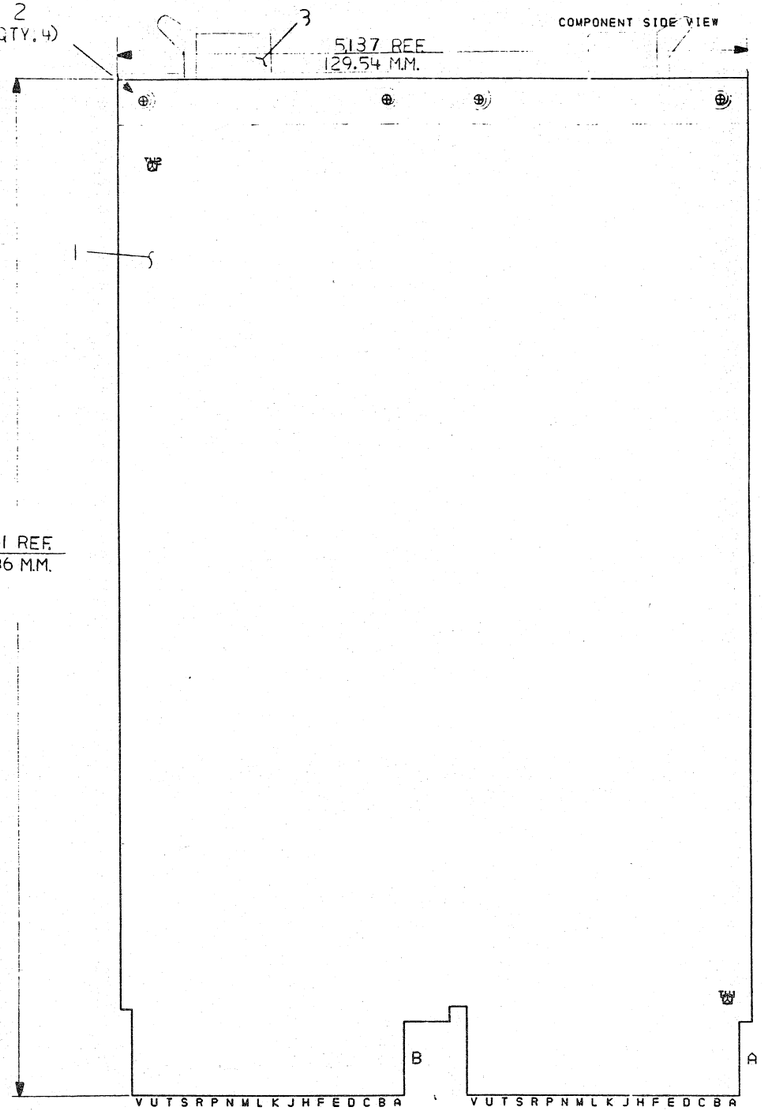
NOTES:

REVISION HISTORY			
REV.	A	B	
ECO NO.	INIT	ML001	
DATE	11/84	5/85	

digital

DRN. BARRY CORMIER	DATE 11/9/84	TITLE GRANT CONTINUITY	
CHK'D J.CUNNINGHAM	DATE 11/9/84	DOCUMENT NUMBER	
DES. ENG. R.LEAZER	DATE 11/14/84	SIZE B / CODE DD / NUMBER M9047-0-0	REV. B
RESP. ENG. R.LEAZER	DATE 11/14/84		
MFG. ENG. A. BROOKS	DATE 11/14/84	SHEET 1 OF 1	

DRB 126C
EN-01242-16-REVA(396)



NOTES:

STEP E	↑ Y AXIS	STEP	TIMES
REPEAT	→ X AXIS	STEP	TIMES

CHK	CHANGE NO	REV
	M9047-M-0001	B

ETCH REV. B1-P2

SIGNATURES	DATE
DRN. E. LANDRY	4-28-85
CHK'D. R. Lemley	4-29-85
MECH. ENG. [illegible]	5/10-85
PROJ. ENG. [illegible]	5/10-85
PROD. [illegible]	5-10-85

digital

TITLE GRANT CONTINUITY

SIZE	CODE	NUMBER	REV.
D	UA	M9047-0-0	B

SCALE 2/1
SHT. 1 OF 1
NEXT HIGHER ASSY. B-DD-M9047-0-0

1 MS# 275466

SIZE D | CODE CS | NUMBER M9047-0-1 | REV A

AM2

AN2

AR2

AS2

REVISION HISTORY

REV	ECO NUMBER	DATE

SHEET 1 OF 1

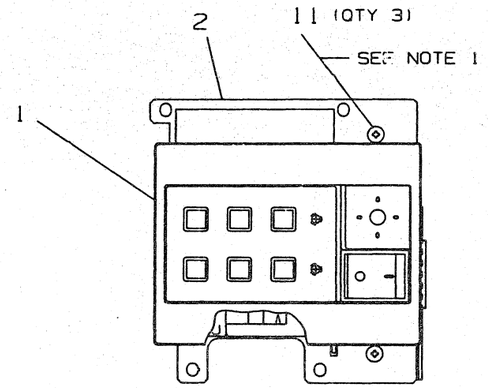
DRN David Daly	DATE 2-26-85	TITLE digital
CHK Ed Landry	DATE 2-27-85	GRANT CONTINUITY
DES ENGR Barry Markie	DATE 2-27-85	DOCUMENT NUMBER
RESP ENGR Barry Markie	DATE 2-27-85	SIZE D CODE CS NUMBER M9047-0-1 REV A
TECH PUBS Joe Marullo	DATE 2-27-85	SCALE SHEET 1 OF 1
NEXT HIGHER DOC B-DD-M9047-0-0		

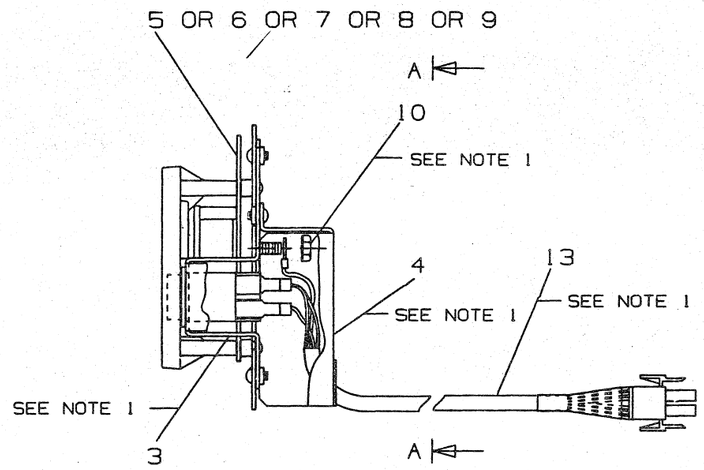
LEGEND

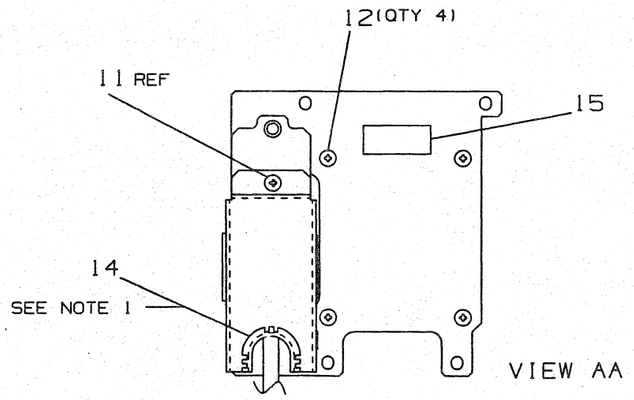
PART NO.	REV	VARIATION	PART NO.	REV	VARIATION
7022007-01	A1	5416458-01 + CABLE	7022007-06	A1	5416458-01, NO CABLE
7022007-02	A1	5416458-02 + CABLE	7022007-07	A1	5416458-02, NO CABLE
7022007-03	A1	5416458-03 + CABLE	7022007-08	A1	5416458-03, NO CABLE
7022007-04	A1	5416458-04 + CABLE	7022007-09	A1	5416458-04, NO CABLE
7022007-05	A1	5416458-05 + CABLE	7022007-10	A1	5416458-05, NO CABLE

NOTES:

1. ITEMS 3,4,10,11,13,14 ARE NOT USED ON VARIATIONS -06 THRU -10
2. REFER TO 7022007-0-DBF FOR MORE INFORMATION







FILENAME: 7022007-0-DBIJA

CAUTION: OFF SHEET PARTS LISTS EXISTS
REFER TO K-PL-7022007-0-DBP
(Z9980)

REVISIONS			
DR	CHANGE NO.	REV.	
CHK	INITIAL	A	

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)

INCHES TOLERANCES	ANGLES ±0° 30'	APPLICABLE DIMENSION RANGE (CHECK ONE)	DIMENSION RANGE IN INCHES					
			OVER 0.0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
.X ± .1	SURFACE QUALITY	☐	±.02	±.03	±.05	±.10		
.XX ± .02		☐	±.004	±.008	±.012	±.016	±.024	±.04
.XXX ± .005	MICROINCHES	☐						

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL: SEE PARTS LIST

FINISH

DRN M. CONNELL	DATE 6-JUN-84	
CHK'D D. HEALY	DATE 6-DEC-84	
DES. ENG. E. REDNER	DATE 6-JUN-84	
RESP. ENG. E. REDNER	DATE 6-JUN-84	
MFG. ENG. R. BELIVEAU	DATE 6-DEC-84	
TOP DOC. D-AD-7022007-0-0		

TITLE: CONTROL PANEL ASSY

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV.
D	AD	7022007-0-DBU	A

SCALE 1/1 SHEET 1 OF 1

7022007-0-DBU REV A

AUTOMATED BY PRTLST.5R(55) — P A R T S L I S T — SHEET A1 OF A1

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION 01	02	03	04	05	06	07	08	09	10
					VARIATION REVISION LEVEL:	A1	A1	A1	A1	A1	A1	A1	A1	A1	A1
1	1	E-MD-7430282-0-DBU	7430282-01	A	PANEL,CONTROL	1	1	1	1	1	1	1	1	1	1
2	2	C-IA-7428657-0-DBU	7428657-01		PLATE, CONTROL PANEL	1	1	1	1	1	1	1	1	1	1
3	3	D-IA-7427565-0-DBU	7427565-01	-	BRACKET,AC SWITCH	1	1	1	1	1	-	-	-	-	-
4	4	C-MD-7428424-0-DBU	7428424-01		SHIELD,AC BRACKET	1	1	1	1	1	-	-	-	-	-
5	5	B-DD-5416458-0-0	5416458-01		BA23 FRONT PANEL	1	-	-	-	-	1	-	-	-	-
6	6	B-DD-5416458-0-0	5416458-02		BA23 FRONT PANEL W 2 RD,HALT & R	-	1	-	-	-	-	1	-	-	-
7	7	B-DD-5416458-0-0	5416458-03		BA23 FRONT PANEL WITH 2 RD,NO HA	-	-	1	-	-	-	-	1	-	-
8	8	B-DD-5416458-0-0	5416458-04		BA23 FRONT PANELWITH 1 RD,NO HAL	-	-	-	1	-	-	-	-	1	-
9	9	B-DD-5416458-0-0	5416458-05		BA23 FRONT PANEL WITH DC OK ONLY	-	-	-	-	1	-	-	-	-	1
10	10		9006565-00	C	NUT,HEX EXT TOOTH LCKWSHR 10-32	1	1	1	1	1	-	-	-	-	-
11	11		90'0155-00	A	SCREW,SEMS PAN PHIL 6-	3	3	3	3	3	-	-	-	-	-
12	12		9009800-00	E	SCREW,TAP PAN PHIL THD RL 6-	4	4	4	4	4	4	4	4	4	4
13	13	D-IA-7020434-0-DBU	7020434-01		CABLE, AC ON/OFF POWER	1	1	1	1	1	-	-	-	-	-
14	14		9007035-00	B	GROMMET,CATERPILLAR POLYAMIDE	A/R	A/R	A/R	A/R	A/R	-	-	-	-	-
15	15		9009255-04	A	LABEL,P/N,REV,MFG	1	1	1	1	1	1	1	1	1	1
16	16		9905016-07	F	CARTON,DIE CUT W/FOAM,B	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R

REVISION HISTORY		
ENG	ECO NUMBER	REV
---	INITIAL	A

BASIC PART NO: 7022007

SECTION A OF A

SECTION.VARIATION INDEX
[A]01,02,03,04,05,06,
07,08,09,10
[B]
[C]
[D]
[E]
[F]

DRN: M. CONNELL	DATE: 04-DEC-84	D I G I T A L
CHK'D: D. HEALY	DATE: 06-DEC-84	TITLE PARTS LIST CONTROL PANEL ASSY
DES.ENG: E. REDNER	DATE: 04-DEC-84	DOCUMENT NUMBER: SIZE K, CODE PL, NUMBER 7022007-0-DBP, REV A
RESP.ENG.: E. REDNER	DATE: 04-DEC-84	
MFG.ENG.: R. BELIVEAU	DATE: 04-DEC-84	RELEASE DATE: 07-DEC-84
ASSEMBLY NUMBER: D-AD-7022007-0-DBU	TOP DOCUMENT NUMBER: K-PL-7022007-0-DBP	FILE NAME: Z9980A.PLS — EDIT # 5

SIZE	CODE	NUMBER	REV
B	DD	5416458-0-0	B

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS																		
		5416458-01	PART REVISION	A1	A2																	
D-UA-5416458-0-0	1		BA23 FRONT PANEL	A	B																	
D-CS-5416458-0-1	1		BA23 FRONT PANEL	A	A																	
K-PL-5416458-0-DBP	3		BA23 FRONT PANEL	A	B																	
K-PC-5416458-0-DBA			PC DESIGN DATA BASE	A	A																	
		5016457-01	ETCHED CIRCUIT BOARD	C1	C1																	
B-DD-5016457-0-0	1		DRAWING DIRECTORY	A	A																	

NOTES:

REVISION HISTORY			
REV.	A	B	
ECO NO.	INIT	TWOOI	
DATE	4-84	12-84	

digital

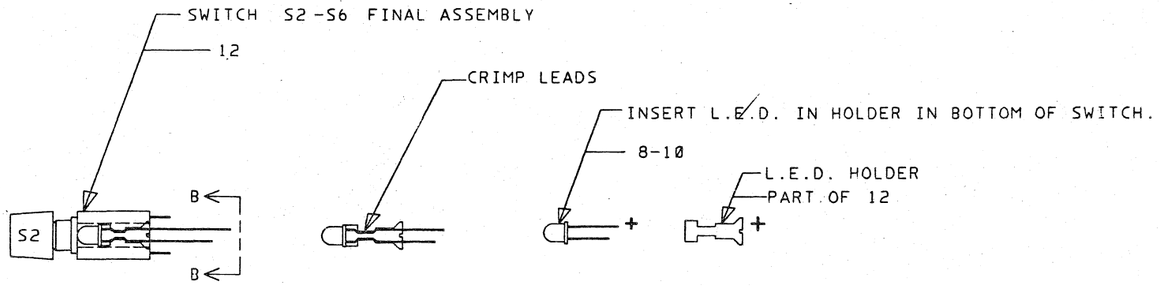
DRN. P. LENNON	DATE 04-10-84	TITLE: BA23 FRONT PANEL	
CHK'D R. BARRIERE	DATE 04-10-84	DOCUMENT NUMBER	
DES. ENG. D. MILLER	DATE 04-10-84	SIZE B / CODE DD / NUMBER 5416458-0-0	REV. B
RESP. ENG. A. DELUCA	DATE 04-10-84		
MFG. ENG. R BELIVEAU	DATE 04-10-84	SHEET 1 OF 1	

DRB 126C
EN-01242-16-REVA(396)

TW

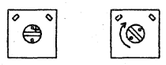
NOTE:

1. POINT OF MFG. LABEL (36-23593-01) APPLIED TO SIDE 2.



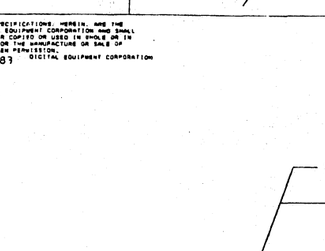
DETAIL A

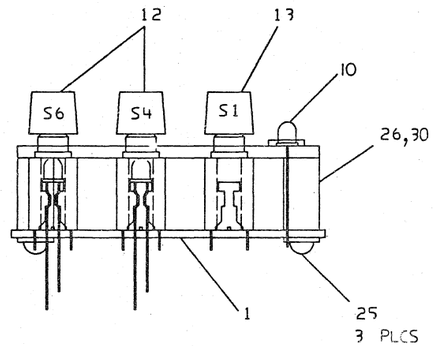
NOT TO SCALE



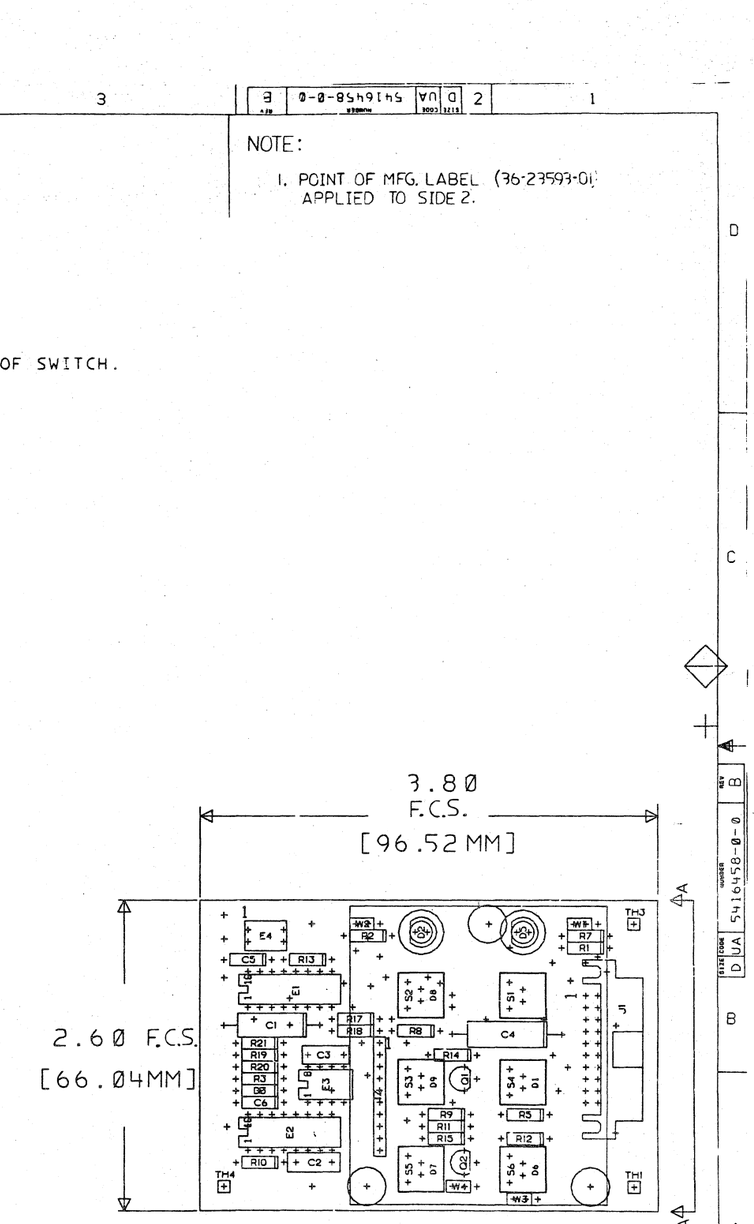
VIEW B-B

INSTALL LED AND HOLDER IN SWITCH AND TURN 1/4 TURN CLOCKWISE.





VIEW A-A



NOTES:
1. W1 & W2 INSTALLED AS SHOWN FOR ALL VARIATIONS
2. R7 NOT INSTALLED
3. ITEM 25 INSTALLED 12 PLACES IN HOLE SYMBOL

STEP E	↑ Y AXIS ____ STEP ____ TIMES	
REPEAT	→ X AXIS ____ STEP ____ TIMES	

CHK	CHANGE NO	REV
TW	5416458-TW1	B
D.MILLER	A moved parts per ECO	

ETCH REV. C1

SIGNATURES	DATE
DRN. RAYMOND S SELBY	1-25-84
CHK'D.	
MECH. ENG.	
PROJ. ENG.	
PROD.	7/6/84
SCALE 1 2 - 1	
SHT. 1 OF 1	
TOP DOC. NO. 8-DD-5416458-0-0	

digital

TITLE BA23 FRONT PANEL

SIZE	CODE	NUMBER	REV
D	UA	5416458-0-0	B

TW 1 MS# 182483C

AUTOMATED BY PRTLST.40(50) — P A R T S L I S T — SHEET A1 OF A2

LINE	ITEM	TOP DOCUMENT	PART NUMBER	REV	DESCRIPTION	QTY PER VARIATION 01	02 A2	03 A2	04 A2	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:					
1	1	D-MD-5016457-0-0	5016457-01		CIRCUIT DRILL AND ETCH	1	1	1	1	
2	2		1000021-00		220.0 MMF 100V 5%200PPM MICA	1	1	-	-	C2
3	3		1005636-00		22 MFD 6V 10% S.TANT	1	1	-	-	C1
4	4		1012784-00		.047 MFD 50V +80-20% CER	2	2	2	2	C5,C6
5	5		1012312-01		.47 MFD 50V +80-20% CER	1	1	-	-	C3
6	6		1017472-00		10 MFD 35V +75-10% AL EL	1	1	1	1	C4
7	7		1100114-00		PIV= 25 IO=135 MA	1	1	-	-	D3
8	8		1119827-01		LED,SUPERBRIGHT,RED T1 PKG	1	1	-	-	D8
9	9		1121248-02		AMBER LED T1 12MCD 1"LEADS	3	-	-	-	D1,D2,D5
			CONT			-	2	2	-	D7,D9
			CONT			-	-	-	1	D9
10	10		1121248-01		GREEN LED T1 4MCD 1"LEADS	3	-	-	-	D9,D7,D6
			CONT			-	4	-	-	D1,D2,D5,D6
			CONT			-	-	3	-	D1,D5,D6
			CONT			-	-	-	2	D1,D5
11	11		1217310-07		SW,DIP 2POS/1PST 5VDC100MA S	1	1	-	-	E4
12	12		1218945-08		SW,PB,LT 1PST MAINTAINED .25A	3	-	-	-	S2,S3,S6
			CONT			-	5	-	-	S2-S6
			CONT			-	-	4	-	S3-S6
			CONT			-	-	-	2	S3,S4
13	13		1218945-00		SW,PB,LT 1PST NO-MOMENTARY .25A	1	1	-	-	S1
14	14		1219039-01		PCB,HEADER 20PIN .100CC 90D	1	1	1	1	J1
15	15		1300250-00		150.0 .25 W 5.0 % CF	6	6	-	-	R1,R2,R5,R9,R11,R12
			CONT			-	-	5	-	R1,R5,R9,R11,R12
			CONT			-	-	-	3	R1,R5,R9
16	16		1300479-00		10.0 K .25 W 5.0 % CF	4	4	-	-	R17,R19-R21
17	17		1300271-00		220.0 .25 W 5.0 % CF	1	1	-	-	R8
18	18		1302388-00		2.0 K .25 W 5.0 % CF	2	-	-	-	R13,R14
			CONT			-	3	3	-	R13,R14,R15
19	19		1302466-00		100.0 K .25 W 5.0 % CF	1	1	-	-	R18

REVISION HISTORY		
ENG	ECO NUMBER	REV
DM	INITIAL	A
DM	5416458-TW001	B

BASIC PART NO: 5416458

SECTION A OF B

SECTION.VARIATION INDEX
- [A] 01,02,03,04
- [B] 05
- [C]
- [D]
- [E]
- [F]
- [H]
- [J]
- [K]
- [L]
- [M]
- [N]

DRN: RAY SELBY	DATE: 28-OCT-83	D I G I T A L
CHK'D: DICK BARRIERE	DATE: 1-NOV-83	TITLE PARTS LIST BA23 FRONT PANEL
DES.ENG: DICK MILLER	DATE: 28-OCT-83	DOCUMENT NUMBER
RESP.ENG.: AL DELUCA	DATE: 28-OCT-83	SIZE: K / CODE: PL / NUMBER: 5416458-0-DBP / REV: B
MFG.ENG.: R. BELIVEAU	DATE: 25-APR-84	RELEASE DATE: 22-JAN-85
ASSEMBLY NUMBER: D-UA-5416458-0-0	TOP DOCUMENT NUMBER: B-DD-5416458-0-0	FILE NAME: Z8352B.PLS / EDIT #: 12

AUTOMATED BY PRTLST.4Q(50)

P A R T S L I S T

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION 01	02 A2	03 A2	04 A2	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:					
20	20		1302514-00		39.0 K .25 W 5.0 % CF	2	2	-	-	R3,R10
21	21		1911579-00		8641 TRANSCEIVER,BUS,QUA	1	1	1	1	E1
22	22		1914156-01		LM 393AN VOLT COMPARATOR,DUA	1	1	-	-	E3
23	23		1912858-00		LS221 ONE SHOT-DUAL,SCHMIT	1	1	-	-	E2
24	24		1503409-01		DEC6534B PNP 310MW SI 40 90 P	1	-	-	1	Q1
			CONT			-	2	2	-	Q1,Q2
25	25		9009800-07		SCREW,TAP PAN PHIL THD RL 4-	3	3	3	3	
26	26		7430283-01		SUPPORT,LED,6 SWITCHES	1	1	1	1	
27	27		1316334-00		R NETWORK 9-2K 2.0 % 10PIN	1	1	1	1	Z1
28	28		1218783-00		JUMPER 02POS(1X02).100CC	4	4	4	4	W1-W4
29	29		9009149-00		PIN,STAKNG 0.0250DX0.345LG SQUAR	12	12	12	12	
30	30		7430283-02		SUPPORT,LED,4 SWITCHES,2 LEDS	1	-	-	-	
31	31		3623593-01		LABEL,BLANK,PAPER,PIN FEED	1	1	1	1	
32	32		9905016-07		CARTON,DIE CUT W/FOAM,B	A/R	A/R	A/R	A/R	
33	33		9907512-01		LAMINATE,POLYU 1.2PCF	A/R	A/R	A/R	A/R	

D I G I T A L	TITLE BA23 FRONT PANEL	SECTION A OF B	SIZE	CODE	DOCUMENT NUMBER	REV
			K	PL	5416458-0-DBP	B

AUTOMATED BY PRTLST.4Q(50) — P A R T S L I S T — SHEET B1 OF B2

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION 05 / A2	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:		
1	1	D-MD-5016457-0-0	5016457-01		CIRCUIT DRILL AND ETCH	1	
2	2		1000021-00		*** THIS ITEM IS NOT USED ***	-	
3	3		1005636-00		*** THIS ITEM IS NOT USED ***	-	
4	4		1012784-00		.047 MFD 50V +80-20% CER	2	C5,C6
5	5		1012312-01		*** THIS ITEM IS NOT USED ***	-	
6	6		1017472-00		10 MFD 35V +75-10% AL EL	1	C4
7	7		1100114-00		*** THIS ITEM IS NOT USED ***	-	
8	8		1119827-01		*** THIS ITEM IS NOT USED ***	-	
9	9		1121248-02		*** THIS ITEM IS NOT USED ***	-	
10	10		1121248-01		GREEN LED T1 4MCD 1"LEADS	1	D5
11	11		1217310-07		*** THIS ITEM IS NOT USED ***	-	
12	12		1218945-08		*** THIS ITEM IS NOT USED ***	-	
13	13		1218945-00		*** THIS ITEM IS NOT USED ***	-	
14	14		1219039-01		PCB,HEADER 20PIN .100CC 90D	1	J1
15	15		1300250-00		150.0 .25 W 5.0 % CF	1	R1
16	16		1300479-00		*** THIS ITEM IS NOT USED ***	-	
17	17		1300271-00		*** THIS ITEM IS NOT USED ***	-	
18	18		1302388-00		2.0 K .25 W 5.0 % CF	1	R13
19	19		1302466-00		*** THIS ITEM IS NOT USED ***	-	
20	20		1302514-00		*** THIS ITEM IS NOT USED ***	-	
21	21		1911579-00		8641 TRANSCEIVER,BUS,QUA	1	E1
22	22		1914156-01		*** THIS ITEM IS NOT USED ***	-	
23	23		1912858-00		*** THIS ITEM IS NOT USED ***	-	
24	24		1503409-01		*** THIS ITEM IS NOT USED ***	-	
25	25		9009800-07		SCREW,TAP PAN PHIL THD RL 4-	3	
26	26		7430283-01		SUPPORT,LED,6 SWITCHES	1	
27	27		1316334-00		R NETWORK 9-2K 2.0 % 10PIN	1	Z1
28	28		1218783-00		JUMPER 02POS(1X02).100CC	4	W1-W4
29	29		9009149-00		PIN,STAKNG 0.0250DX0.345LG SQUAR	12	
30	30		7430283-02		*** THIS ITEM IS NOT USED ***	-	

REVISION HISTORY			BASIC PART NO: 5416458
ENG	ECO NUMBER	REV	SECTION B OF B
DM	INITIAL	A	SECTION.VARIATION INDEX
DM	5416458-TW001	B	[A] 01,02,03,04
			[B] 05
			[C]
			[D]
			[E]
			[F]
			[H]
			[J]
			[K]
			[L]
			[M]
			[N]

DRN: RAY SELBY	DATE: 28-OCT-83	D I G I T A L	
CHK'D: DICK BARRIERE	DATE: 1-NOV-83	TITLE PARTS LIST BA23 FRONT PANEL	
DES.ENG: DICK MILLER	DATE: 28-OCT-83	DOCUMENT NUMBER	
		SIZE / CODE / NUMBER	REV
RESP.ENG.: AL DELUCA	DATE: 28-OCT-83	K / PL / 5416458-0-DBP	B
MFG.ENG.: R. BELIVEAU	DATE: 25-APR-84	RELEASE DATE: 22-JAN-85	
ASSEMBLY NUMBER: D-UA-5416458-0-0	TOP DOCUMENT NUMBER: B-DD-5416458-0-0	FILE NAME: Z8352B.PLS	EDIT # 12

AUTOMATED BY PRTLST.4Q(50)

P A R T S L I S T

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION 05	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:	A2	
31	31		3623593-01		LABEL,BLANK,PAPER,PIN FEED	1	
32	32		9905016-07		CARTON,DIE CUT W/FOAM,B	A/R	
33	33		9907512-01		LAMINATE,POLYU 1.2PCF	A/R	

	TITLE		SIZE	CODE	DOCUMENT NUMBER	REV
D I G I T A L	BA23 FRONT PANEL	SECTION B OF B	K	PL	5416458-0-DBP	B

SIZE D | CODE CS | NUMBER 5416453-0-1 | REV A

TP2 TP1 TP3

J1

+12V

+5V

RDØ READY
Ø1,Ø2,Ø3,Ø4
VARIATIONS

RDØ RDY H

S RUN L

B HALT L

Rx2 WPT LED L

Rx3 WPT LED L

RDI RDY H

Rx1 WPT LED L

R13 2K

Z1 2K

R14 2K

Q1 6534

D1

R5 150

S4

R17 10K

R18 100K

R19 10K

R20 10K

C3 .47UF

393 E3

R21 10K

S1 RESTART

8641 E1

R8 220

D8

S2 HALT ENABLE
Ø1 & Ø2 VARIATIONS

Ø2,Ø3 VARIATIONS

Ø1,Ø2,Ø3 VARIATIONS

D6

Q2 6534

R15 2K

R11 150

S6 RDI READY

W4

+5V

C4 10UF

C5 .Ø47UF

C6 .Ø47UF

R10 39K

C2 22PF

74LS221 E2

R3 39K

D3 D664

C1 22UF

R2 150

D2 RUN

Ø1,Ø2 VARIATIONS

DC OK

D5

W1

W2

R7 150

R1 150

B D.C OK H

RD WRT PROT

Ø1,Ø2,Ø3,Ø4 VARIATIONS

R9 150

D9

S3

RDØ WRT PROT L

B EVENT

E4

S1

S2

Ø1,Ø2 VARIATIONS RESTART ENABLE

B EVENT L

RDI WRT PROT

Ø1,Ø2,Ø3 VARIATIONS

R12 150

D7

S5

Ø2,Ø3 VARIATIONS

W3

RDI WRT PROT L

RXD WPT LED L

REVISION HISTORY | REV. | ECO NUMBER | DATE

DRD 102E

DRN	G. Angelo	DATE	5 Dec 83
CHK'D		DATE	
DES ENG		DATE	7/1/84
RESP ENG		DATE	7/1/84
MFG ENG		DATE	7/01/84
NEXT HIGHER DOC	B-DD-5416458-0		

TITLE: digital
B423
FRONT PANEL

DOCUMENT NUMBER: SIZE D | CODE CS | NUMBER 5416458-C-1 | REV A

SCALE — | SHEET 1 OF 1

DATE CODE D CS | NUMBER 5416458-C-1 | REV A

SIZE	CODE	NUMBER	REV
B	DD	5416744-0-0	B

DRAWING NO.	NO OF SHTS.	PART NO.	DESCRIPTION	REVISIONS																	
		5416744-01	FUNCTION SEL/SLU BOARD	A1	A1																
D-UA-5416744-0-0	1		FUNCTION SEL/SLU UNIT ASSEMBLY	A	B																
K-CS-5416744-0-1	1		FUNCTION SEL/SLU CIRCUIT SCHEMATIC	A	A																
K-PL-5416744-0-DBP	1		FUNCTION SEL/SLU PARTS LIST	A	A																
K-PC-5416744-0-DBJ			P.C. DESIGN DATA BASE	A	A																
		5016743-01	ETCHED CIRCUIT BOARD	A1	A1																
B-DD-5016743-0-0	1		DRAWING DIRECTORY	A	A																
K-CS-5416744-0-DBV			VALID DATA BASE	A	A																

NOTES:

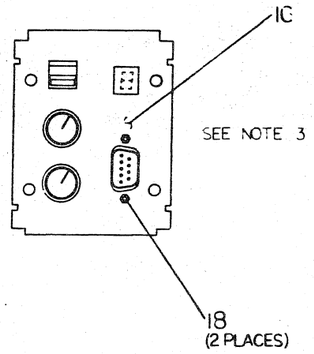
REVISION HISTORY																					
DATE	1/85	5-85																			
ECO NO.	INIT	TW001																			
REV.	A	B																			

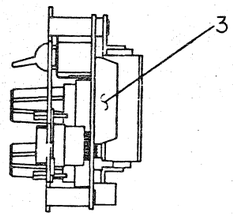
digital

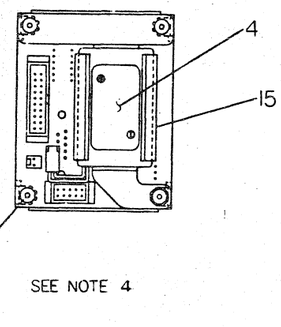
DRN. D.DROZD	DATE 1/31/85	TITLE FUNCTION SEL/SLU
CHK'D J.CUNNINGHAM	DATE 1/31/85	
DES. ENG. M. deMARE	DATE 1/31/85	DOCUMENT NUMBER
RESP. ENG M. deMARE	DATE 1/31/85	SIZE B / CODE DD / NUMBER 5416744-0-0 / REV. B
MFG. ENG. S. [illegible]	DATE 1/31/85	SHEET 1 OF 1

DRB 126C
EN-01242-16-REVA(396)

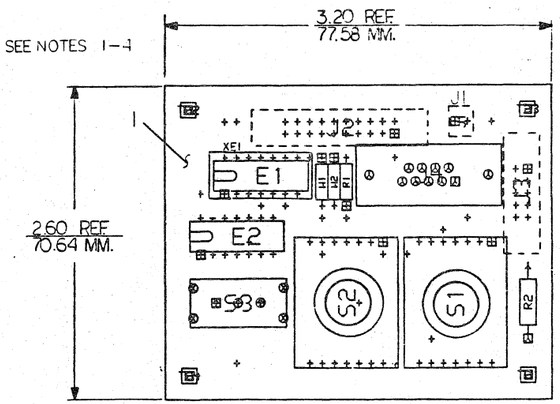
TW







SEE NOTES 1-4



NOTES:
1. W1 W2 ARE NOT INSTALLED.
2. J1, J2 AND J3 ARE MOUNTED ON SIDE 2.
3. MOUNT J4 TO ITEM 16 WITH ITEM 18 BEFORE SOLDERING INTO ITEM 1.
4. TEST PANEL IN TESTER AFTER COMPLETING NOTE 3 AND BEFORE ASSEMBLY OF ITEMS 1,15,&16 WITH ITEM 17.

STEP E	↑ Y AXIS	STEP ___ TIMES
REPEAT	→ X AXIS	STEP ___ TIMES

CHK	CHANGE NO	REV
	5416744-TW1	B
	D.DERRY 24-MAY-85	
	N.DEMARE	

ETCH REV. A1

SIGNATURES	DATE
DRN. DAVID DROZD	
CHK'D.	
MECH.ENG.	
PROJ.ENG.	
PROD.	
SCALE 2/1	
SHT. OF	
NEXT HIGHER ASSY. B-DD-5416744-0-0	

digital

TITLE FUNCTION SEL / SLU

SIZE	CODE	NUMBER	REV
D	UA	5416744-0-0	D

1 MS# 275400

AUTOMATED BY PRTLST.5R(55) — P A R T S L I S T — SHEET A1 -OF A1

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION 01	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:	A1	
1	1	D-MD-5016743-0-0	5016743-01		CIRCUIT DRILL AND ETCH	1	
2	2		1216565-02		SKT,IC 14PIN DIP TIN ELEV	1	XE1
3	3		1217727-00		PCB,HEADER 20POS(1X20).100CC STR	1	J2
4	4		1219245-01		BATTERY,3CELL 3.75V .18MA NICAD	1	
5	5		1219251-00		PCB HEADER 02PIN(1X02).100CC STR	1	J1
6	6		1219573-05		CONN,D SUB 9PIN ASSY STR	1	J4
7	7		1219952-08		PCB HEADER 09PIN(2X05).100CC STR	1	J3
8	8		1223262-01		SW,ROT 1P08POS	1	S1
9	9		1223263-02		SW,ROT 2P03POS	1	S2
10	10		1223646-01		SW,RKR SPDT ON-OFF-ON	1	S3
11	11		1300229-00		100.0 .25 W 5.0 % CF	1	R1
12	12		1300354-00		750.0 .50 W 5.0 % CF	1	R2
13	13		1912803-00		LS04 INVERTER GATE,HEX	1	E2
14	14		1916921-00		HEXADECIMAL DISPLAY W/DECODER	1	E1
15	15		7430801-01		HOLDER,BATTERY	1	
16	16		7431737-01		PLATE,CONNECTOR	1	
17	17		9008181-01		SCREW,TAP PAN PHIL 6-	4	
18	18		9008451-01		SCREW LOCK,STANDOFF ONLY .060TH	2	

REVISION HISTORY			BASIC PART NO: 5416744				
ENG	ECO NUMBER	REV	SECTION A OF A				
---	INITIAL	A	SECTION.VARIATION INDEX [A] 01 [B] [C] [D] [E] [F] [H] [J] [K] [L] [M] [N]	DRN: E. LANDRY	DATE: 01-JUN-84	D I G I T A L	
				CHK'D: D. DROZD	DATE: 01-JUN-84	TITLE PARTS LIST FUNCTION SEL/SLU MODULE	
				DES.ENG: M. DEMARE	DATE: 12-OCT-84	DOCUMENT NUMBER	
				RESP.ENG.: M. DEMARE	DATE: 12-OCT-84	SIZE: K / CODE: PL / NUMBER: 5416744-0-DBP / REV: A	
				MFG.ENG.: S. WASH	DATE: 12 NOV 84	RELEASE DATE: 27-FEB-85	
				ASSEMBLY NUMBER: D-UA-5416744-0-0	TOP DOCUMENT NUMBER: D-UA-5416744-0-0P	FILE NAME: ML769A.PLS	EDIT #: 34

FROM M7606 J2 PIN	TO FS&SLU J2 PIN		FROM M7606 J2 PIN	TO FS&SLU J2 PIN	
1	20	GND	11	10	DSPL<3>L
2	19	GND	12	9	GND
3	18	GND	13	8	BDG CD<0>L
4	17	CPU CD<0>L	14	7	BDG CD<1>L
5	16	CPU CD<1>L	15	6	HLT ENB L
6	15	GND	16	5	GND
7	14	DSPL<0>L	17	4	BRS<0>L
8	13	DSPL<1>L	18	3	BRS<1>L
9	12	DSPL<2>L	19	2	BRS<2>L
10	11	BTRYU H	20	1	+5.0VF = VCC

FROM M7606

J2

VCC 1 2 BRS<2>L
BRS<1>L 3 4 BRS<0>L
GND 5 6 HLT ENB L
BDG CD<1>L 7 8 BDG CD<0>L
9 10 DSPL<3>L
BTRYU H 11 12 DSPL<2>L
DSPL<1>L 13 14 DSPL<0>L
GND 15 16 CPU CD<1>L
CPU CD<0>L 17 18
19 20

C1

J1

1
2

S1

BRS<2:0>L
0 HHH 300 BAUD
1 HHL 600
2 HLH 1200
3 HLL 2400
4 LHH 4800
5 LHL 9600
6 LLH 19200
7 LLL 38400

BC8 BC4 BC2 BC1

BRS<2>L BRS<1>L BRS<0>L

GND

Baud Switch

to Console terminal

FROM M7606 J3 PIN	TO FS&SLU J3 PIN	
1	10	BUVRESET(L)
2	9	GND
3	8	SLU OUT L
4	7	GND
5	6	KEY
3	5	KEY
7	4	SLU IN H
8	3	SLU IN L
9	2	GND
10	1	+12.0VF

DSPL<3>L DSPL<2>L DSPL<1>L DSPL<0>L

E2 BDSPL<3>H
E2 BDSPL<2>H
E2 BDSPL<1>H
E2 BDSPL<0>H

XE1

TIL311 HEXI-DECIMAL DISPLAY

D<3:0>
IE
DE
LDP
RDP

GND

S3 Halt Enable

GND HLT ENB L

CPU CD<1>L
CPU CD<0>L
W2 W1
GND

CPU CD<1:0>L

W2	W1	FUNCTION
R	R	NORMAL
R	I	AUXILIARY 1
I	R	AUXILIARY 2
I	I	AUXILIARY 3

I=INSERTED
R=REMOVED

BDG CD<1:0>L
0 HH NORMAL
1 HL LANGUAGE INQUIRY
2 LH SLU LOOPBACK TEST

S2

BDG CD<0>L
BDG CD<1>L
SLU INP L
SLU OUT L

Mode Switch

SLU OUT L
SLU INP L
GND
CHASSIS GND
J4
SLU IN L
R1 100 1/4W
J3
R2 750 ohms 1/2W
+12.0VF

REVISION HISTORY		
REV	ECO NUMBER	DATE

DRAWING
TITLE=FUNCT SEL/SLU
ABBREV=FSSLU
LAST_MODIFIED=Thu Jan 31 17:20:33 1985

DEFINE
X_FIRST=0
X_STEP=SIZE

digital

DRN: Malcolm de Mars	DATE 20-SEP-84	ENG: Malcolm de Mars	DATE 20-SEP-84
CHK'D: Dave Drozd	DATE 20-SEP-84	SHEET 1 OF 1	

NEXT HIGHER ASSEMBLY: B-DD-5416744-0-0

TITLE: Function Selection & SLU Module (FS&SLU) for M7606(KA630)

SIZE	CODE	NUMBER	REV
K	CS	5416744-0-1	A

AUTOMATED BY PRTLST.5R(55)

P A R T S L I S T

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION AA	AB	AC	AD
					VARIATION REVISION LEVEL:	A1	A1	A1	A1
1	1	B-DD-M7606-0-0	M7606-AA		MICROVAX II W/1MB,FP,INCLUDES TI	1	-	-	-
2	2	B-DD-M7606-0-0	M7606-BA		M7606-AA W/NO FP (CPU,1MB) = M76	-	1	-	-
3	3	B-DD-M7606-0-0	M7606-CA		M7606-AA W/256KB MEM (CPU,256KB,	-	-	1	-
4	4	B-DD-M7606-0-0	M7606-DA		M7606-AA W/256KB MEM,NO FP = M76	-	-	-	1
5	5	B-DD-H3263-0-0	H3263-00		KA630 CONFIGURATION CONNECTOR &	1	1	1	1
6	6	A-PA-3700847-0-0	3700847-02		PKG OPTION KIT MS630/KA630	1	1	1	1
7	7	A-PA-3700847-0-0	3700847-03		PKG OPTION KIT MS630/KA630	A/R	A/R	A/R	A/R

REVISION HISTORY			BASIC PART NO: KA630			
ENG	ECO NUMBER	REV	SECTION A OF A			
---	INITIAL	A	SECTION.VARIATION INDEX [A]AA,AB,AC,AD	DRN: D. RICHARD	DATE: 26-OCT-84	D I G I T A L
			[B]	CHK'D: D. HEALY	DATE: 14-FEB-85	TITLE PARTS LIST MICROVAX CPU MODULE
			[C]	DES.ENG: B. MCNAMARA	DATE: 14-FEB-85	DOCUMENT NUMBER SIZE: K, CODE: PL, NUMBER: KA630-0-DBP, REV: A
			[D]	RESP.ENG.: B. MCNAMARA	DATE: 14-FEB-85	
			[E]	MFG.ENG.: K. WORTMAN	DATE: 14-FEB-85	RELEASE DATE: 14-FEB-85
			[F]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER: K-PL-KA630-0-DBP	FILE NAME: ML556A.PLS, EDIT #: 10

SIZE	CODE	NUMBER	REV
B	DD	H3263-0-0	A

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS
		H3263-00	KA630 CNF	A1
D-UA-H3263-0-0	1		KA630-CNF UNIT ASSEMBLY	A
K-CS-H3263-0-1	1		KA630-CNF SCHEMATIC	A
K-PL-H3263-0-DBP	1		KA630-CNF PARTS LIST	A
K-PC-H3263-0-DBJ			P.C. DESIGN DATA BASE	A
		5016698-01	ETCHED CIRCUIT BOARD	A1
B-DD-5016698-0-0			DRAWING DIRECTORY	A
K-CS-H3263-0-DBV			VALID DATA BASE	A

NOTES:

REVISION HISTORY		
REV.	ECO NO.	DATE
A	INIT	1/85

digital

DRN. B.CORMIER	DATE 1/28/85	TITLE KA630-CNF	
CHK'D E.LANDRY	DATE 1/28/85	DOCUMENT NUMBER	
DES. ENG. B.MASKAS	DATE 1-Feb-85	SIZE B / CODE DD / NUMBER H3263-0-0	REV. A
RESP. ENG. R.MCNAMARA	DATE 1-Feb-85		
MFG. ENG. KEITH WORTMAN	DATE 1-Feb-85	SHEET 1 OF 1	

DRB 126C
EN-01242-16-REVA(396)

REV	DUA	H3263-0-0
A	D	

250FCS
6350MM

150FCS
3810MM.

NOTES:

CHK	CHANGE NO	REV

STEP E	↑ Y AXIS	STEP	TIMES
REPEAT	→ X AXIS	STEP	TIMES

ETCH REV. A1

SIGNATURES	DATE
DRN. RONALD RHOADES	
CHK'D.	
MECH.ENG. B. MASKAS	1-Feb-85
PROJ.ENG. B. MASKAS	1-Feb-85
PROD. KEITH WEATMAN	1-Feb-85

digital

TITLE KA630-CNF

SCALE	SIZE	CODE	NUMBER	REV
2:1	D	UA	H3263-0-0	A

SHT. 1 OF 1

NEXT HIGHER ASSY. B-DD-H3263-0-0

MS# 275370

AUTOMATED BY PRTLST.5R(55)

P A R T S L I S T

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:	A1	
1	1	D-MD-5016698-0-0	5016698-01		CIRCUIT DRILL AND ETCH BOARD	1	
2	2		1215563-05		CONN,P+S 14POS(2X07).100CC	1	J2
3	3		1215563-06		CONN,P+S 24POS(2X12).100CC	1	J3
4	4		1217310-00		SW,DIP 10POS/1PST 5VDC100MA S	1	SW1
5	5		1214434-02		PCB,HEADER 02PIN(1X02).100CC 90D	1	J4
6	6		1213506-04		PCB HEADER 09PIN(2X05).100CC 90D	1	J1
7	7		1300365-00		1.0 K .25 W 5.0 % CF	1	R1

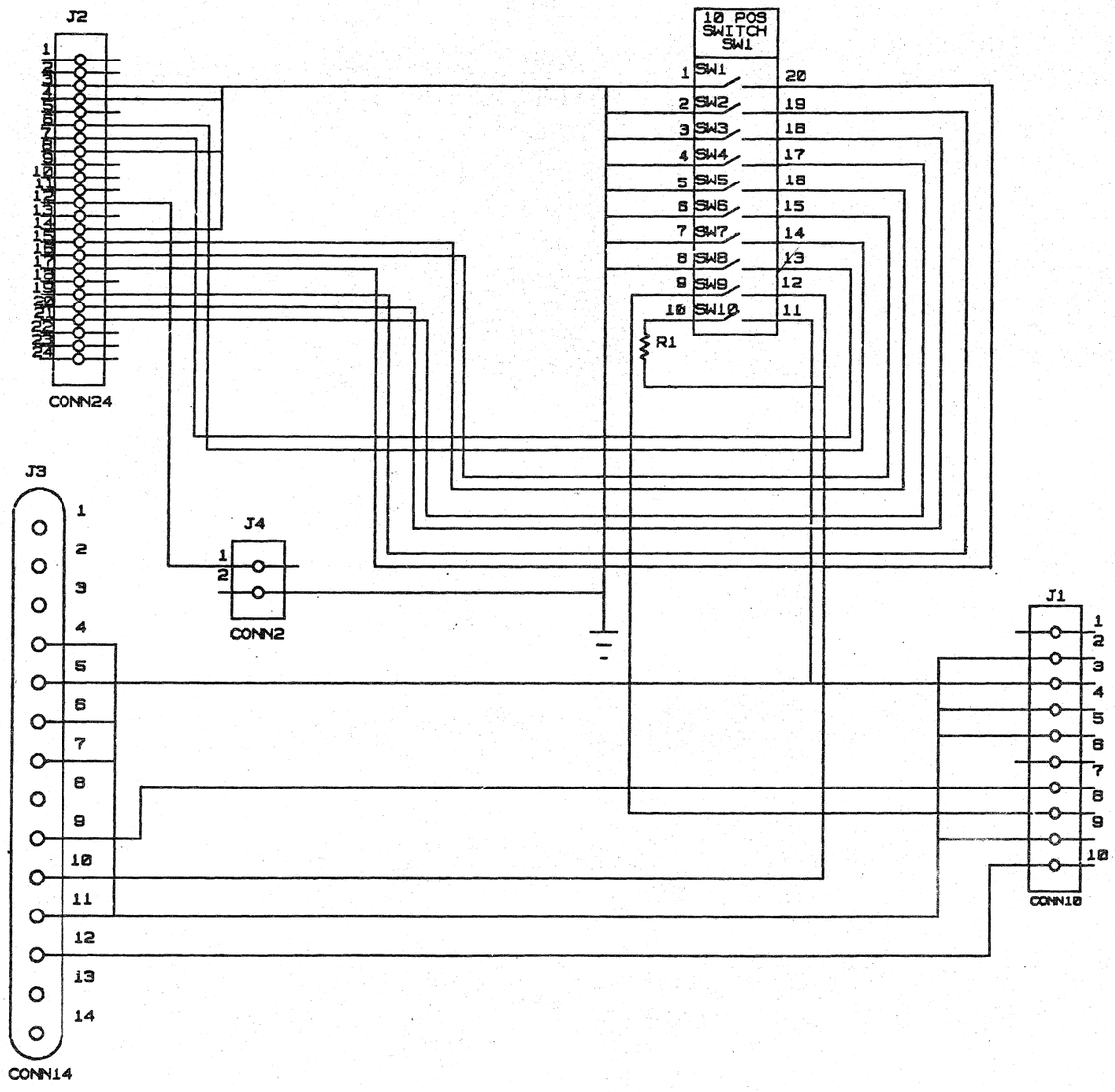
REVISION HISTORY			
ENG	ECO NUMBER	REV	
---	INITIAL.	A	

BASIC PART NO: H3263

SECTION A OF A

SECTION.VARIATION INDEX
[A] 00
[B]
[C]
[D]
[E]
[F]
[H]
[J]
[K]
[L]
[M]
[N]

DRN: RONALD RHOADES	DATE: 08-NOV-84	D I G I T A L
CHK'D: B. CORMIER	DATE: 3-DEC-84	TITLE PARTS LIST KA630-CNF
DES.ENG: B. MASKAS	DATE: 3-DEC-84	DOCUMENT NUMBER
RESP.ENG.: B. MASKAS	DATE: 5-MAR-85	SIZE K / CODE PL / NUMBER H3263-0-DBP / REV A
MFG.ENG.: K. WORKMAN	DATE: 5-MAR-85	RELEASE DATE: 05-MAR-85
ASSEMBLY NUMBER: D-UA-H3263-0-0	TOP DOCUMENT NUMBER: B-DD-H3263-0-0	FILE NAME: ML547A.PLS / EDIT # 7



S1-1

ON HALT ENABLE

OFF HALT ENABLE

S1-4	S1-3	S1-2	BAUD
OFF	OFF	OFF	300
OFF	OFF	ON	600
OFF	ON	OFF	1200
OFF	ON	ON	2400
ON	OFF	OFF	4800
ON	OFF	ON	9600
ON	ON	OFF	19200
ON	ON	ON	38400

S1-6	S1-5	
OFF	OFF	NORMAL
OFF	ON	LANGUAGE INQUIRY
ON	OFF	MAINTENCE
ON	ON	MANUFACTURING

S1-8	S1-7	
OFF	OFF	ARBITER
OFF	ON	AUXILIARY 1
ON	OFF	AUXILIARY 2
ON	ON	AUXILIARY 3

S1-10	S1-9	
OFF	OFF	SEND ONLY
OFF	ON	NORMAL
ON	OFF	MAINTENCE
ON	ON	ILLEGAL

DEFINE

X_FIRST=0

X_STEP=SIZE

DRAWING

TITLE=XKA630

ABBREV=XKA630

LAST_MODIFIED=Wed Mar 8 10:30:14 1985

REVISION		
CHK	CHANGE NO.	REV

digital

DRN R BUREAU DATE 12-6-84

CHK B. MASKAS DATE 12-12-84

ENG B. MASKAS DATE 12-13-84

BOARD LOCATION:

SCALE 1/1

TITLE: KA630 CNF

USED:

FIRST USED ON OPTION/MODEL:

TOP DOCUMENT NUMBER: 8-CD-H3263-0-0

SIZE	CODE	NUMBER	REV.
K	CS	H3263-0-DBV	A

SIZE	CODE	NUMBER	REV
B	DD	M7607-0-0	A

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS
		M7607-AA	MS630-A	A1
D-UA-M7607-0-0	1		MS630-A UNIT ASSEMBLY	A
K-CS-M7607-0-0	1		MS630-A SCHEMATIC	A
K-PL-M7607-0-DBP	1		MS630-A PARTS LIST	A
K-PC-M7607-0-DBJ			P.C. DESIGN DATA BASE	C
		5016498-01	ETCHED CIRCUIT BOARD	C1
B-DD-5016498-0-0	1		DRAWING DIRECTORY	A
K-CS-M7607-0-DBV			VALID SCHEMATIC DATA BASE	A

NOTES:

REVISION HISTORY		
REV.	ECO NO.	DATE
A	INIT	8/84

digital

DRN.	D.DROZD	DATE	6/6/84
CHK'D	E.LANDRY	DATE	6/6/84
DES. ENG.	R.LEAZER	DATE	6/6/84
RESP. ENG.	R.LEAZER	DATE	6/6/84
MFG. ENG.	A. BROOKS	DATE	9/7/84

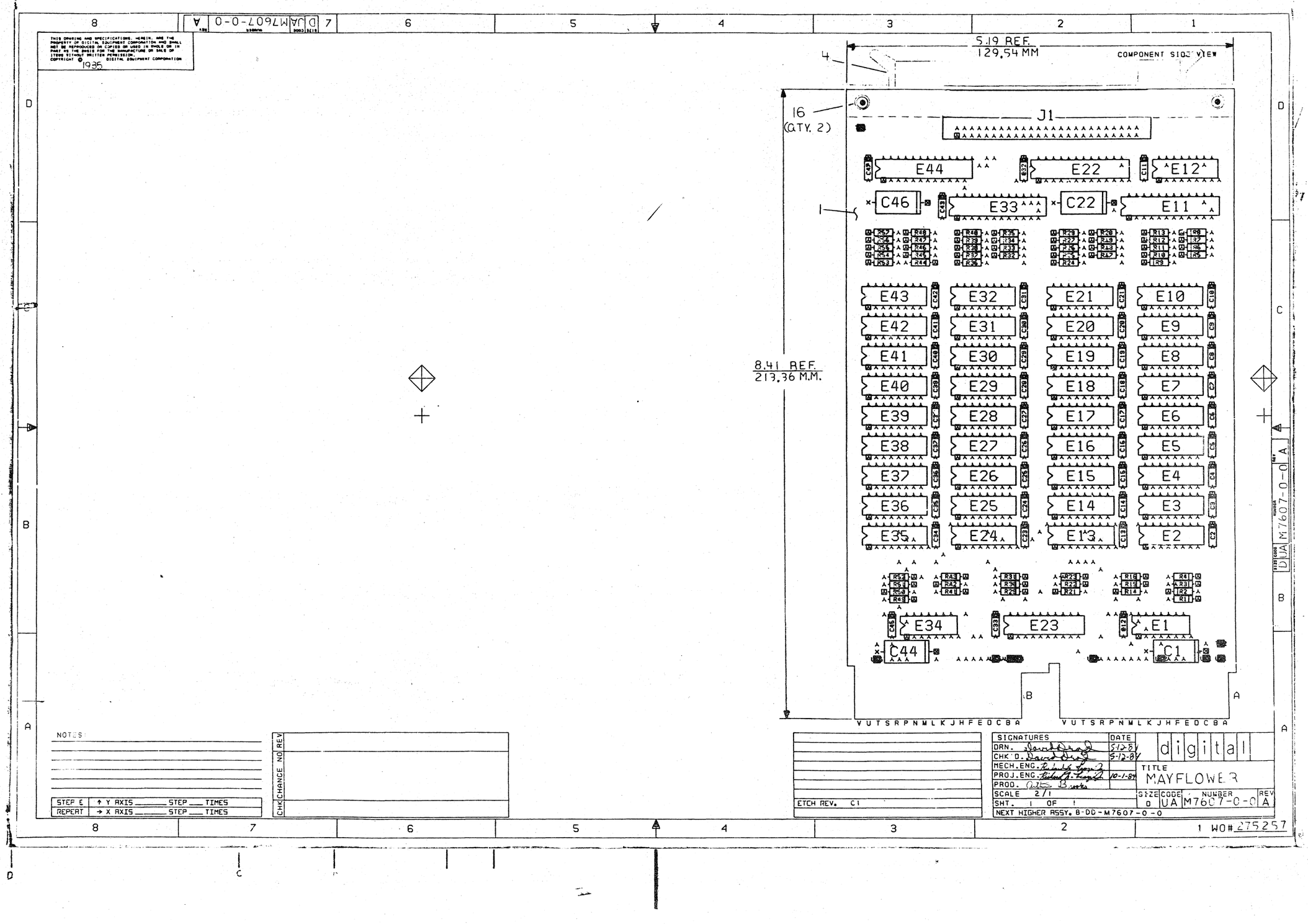
TITLE: MS630-A

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV.
B	DD	M7607-0-0	A

SHEET 1 OF 1

DRB 126C
EN-01242-16-REVA(396)



NOTES:

CHK	CHANGE NO.	REV

STEP & REPEAT	↑ Y AXIS _____ STEP ___ TIMES	
	→ X AXIS _____ STEP ___ TIMES	

ETCH REV. C1

SIGNATURES	DATE
DRN.	5-12-84
CHK'D.	5-12-84
MECH.ENG.	
PROJ.ENG.	10-1-84
PROD.	
SCALE 2/1	
SHT. 1 OF 1	
NEXT HIGHER ASSY. B-DD-M7607-0-0	

digital

TITLE
MAYFLOWER

SIZE	CODE	NUMBER	REV
D	UA	M7607-0-0	A

WO# 275257

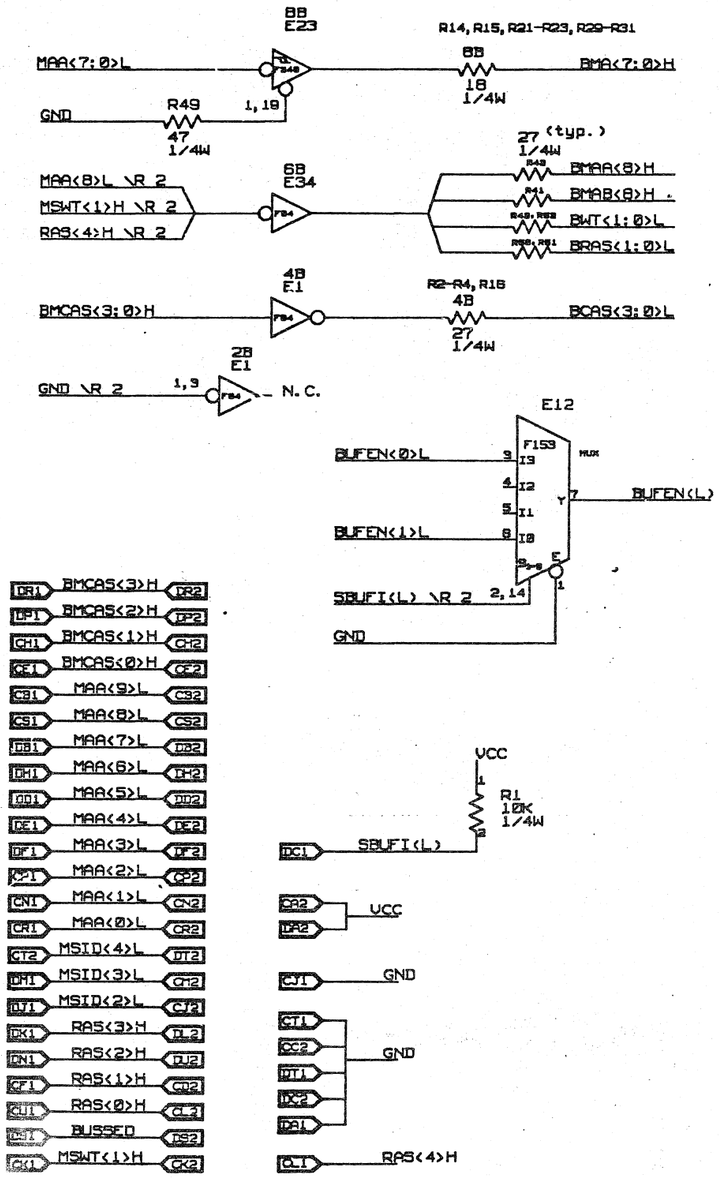
D UA M7607-0-0 A

AUTOMATED BY PRTLST.4Q(50) — P A R T S L I S T —

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION AA A1	AC A1	AH A1	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:				
1	1	D-MD-5016498-0-0	5016498-01		CIRCUIT DRILL AND ETCH BJARD	1	1	1	
2	2		1014265-02		.33 MFD 50V +80-20% CER	43	43	43	C2-C21,C23-C43,C45,C47
3	3		1017472-00		10 MFD 35V +75-10% AL EL	4	4	4	C1,C22,C44,C46
4	4		1213543-01		HANDLE,UNIBUS MODULE,MAGENTA	1	1	1	
5	5		1214094-03		PCB,HEADER 50PIN(2X25).100CC	1	1	1	J1
6	6		1300202-00		47.0 .25 W 5.0 % CF	38	38	38	R5-R13,R17-R20,R24-R28,R32-R40,
								CONT	R44-R49,R53-R57
7	7		1300479-00		10.0 K .25 W 5.0 % CF	1	1	1	R1
8	8		1301522-00		27.0 .25 W 5.0 % CF	10	10	10	R2-R4,R16,R41-R43,R50-R52
9	9		1302124-00		18.0 .25 W 5.0 % CF	8	8	8	R14,R15,R21-R23,R29-R31
10	10		1921008-01		74F240 BUFFER/LINE DRIVER,I	1	1	1	E23
11	11		1921307-01		74F04 HEX INVERTER	2	2	2	E1,E34
12	12		1921319-01		74F153 MUX,DUAL,4-IN	1	1	1	E12
13	13		1922871-01		TRANSCEIVER,PARITY B	4	4	4	E11,E22,E33,E44
14	14		2121413-02		41256 RAM 256KX1,DYNAMIC 1	-	-	36	E2-E10,E13-E21,E24-E32,E35-E43
15	15		2121415-02		81256-15 RAM 256KX1,DYNAMIC 1	-	36	-	E2-E10,E13-E21,E24-E32,E35-E43
16	16		9000024-01		EYELET,ROLLED 0.1210DX0.192	2	2	2	

17 NOTE: M7607-AA IS THE PRIMARY VARIATION OF THE 1MB MEMORY WITH NO RAMS INDICATED.
18 NOTE: M7607-AC IS THE 1MB MEMORY WITH FUJITSU 256K RAMS.
19 NOTE: M7607-AH IS THE 1MB MEMORY WITH NEC RAMS.

REVISION HISTORY			BASIC PART NO: M7607				
ENG	ECO NUMBER	REV	SECTION A OF A				
---	INITIAL	A	SECTION.VARIATION INDEX [A] AA,AC,AH [B] [C] [D] [E] [F] [H] [J] [K] [L] [M] [N]	DRN: RITA BUREAU	DATE: 19-DEC-83	D I G I T A L	
				CHK'D: DAVID DROZD	DATE: 19-APR-84	TITLE PARTS LIST MS630-A	
				DES.ENG: RICK LEAZER	DATE: 14-MAY-84	DOCUMENT NUMBER	
				RESP.ENG.: RICK LEAZER	DATE: 14-MAY-84	SIZE K / CODE PL / NUMBER M7607-0-DBP / REV A	
				MFG.ENG.: ART BROOKS	DATE: 7-JUN-84	RELEASE DATE: 05-MAR-85	
				ASSEMBLY NUMBER: D-UA-M7607-A-0	TOP DOCUMENT NUMBER: B-DD-M7607-A-0	FILE NAME: Z8782A.PLS	EDIT # 11



REVISION HISTORY

REV	ECO NUMBER	DATE

DRAWING
TITLE=MS630A
ABBREV=MS630A
CIRCUIT_TYPE=MEMORY
LAST_MODIFIED=Thu Mar 28 11:50:40 1985

DEFINE
X_FIRST=0
X_STEP=SIZE

digital

DRN: Rick Leazer	DATE 28-JUN-84	ENG: Rick Leazer	DATE 28-JUN-84	TITLE: MAYFLOWER 1MBYTE MEMORY	
CHK'D: Dave Drozd	DATE 5-JUL-84	SHEET 1 OF 1			
		NEXT HIGHER ASSEMBLY: MS630-A	SIZE K	CODE CS	NUMBER M7507-0-0 REV A

SIZE	CODE	NUMBER	REV
B	DD	M7608-0-0	B

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS																	
		M7608-AA	MS630-B	A1	B1	B1															
D-UA-M7608-0-0	1		MS630-B UNIT ASSEMBLY	A	-	B															
K-CS-M7608-0-1	12		MS630-B SCHEMATIC	A	B	B															
K-PL-M7608-0-DBP	1		MS630-B PARTS LIST	A	B	B															
K-PC-M7608-0-DBJ			P.C. DESIGN DATA BASE	D	D	E															
		5016495-01	ETCHED CIRCUIT BOARD	D2	D2	E1															
B-DD-5016495-0-0	1		DRAWING DIRECTORY	A	B	B															
K-CS-M7608-0-DBV			MS630-B VALID SCHEMATIC DATABASE	A	B	B															
D-UA-M7608-0-1	1		MS630-B UNIT ASSEMBLY	-	-	A															

NOTES:

REVISION HISTORY				
REV.	A	B		
ECO NO.	INIT	0001 REWORK VERSION	0001 NEW LAYOUT	
DATE	8/84	2/85	2/85	

digital

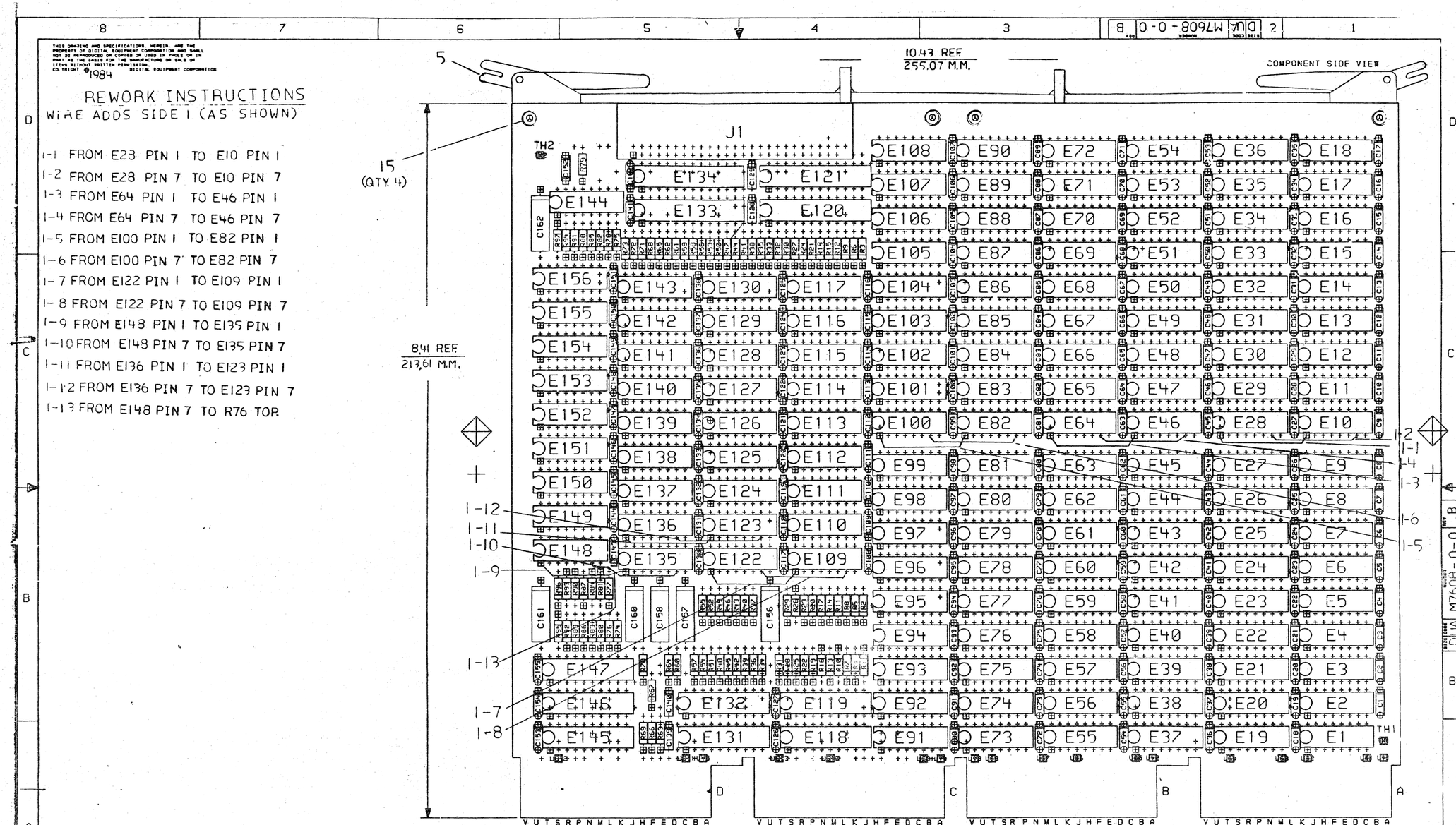
DRN. D.DROZD	DATE 6/6/84	TITLE MS630-B
CHK'D E.LANDRY	DATE 6/6/84	DOCUMENT NUMBER
DES. ENG. M.deMARE	DATE 6/6/84	SIZE B / CODE DD / NUMBER M7608-0-0 / REV. B
RESP. ENG. M.deMARE	DATE 6/6/84	SHEET 1 OF 1
MFG. ENG. A.BROOKS	DATE 12/3/84	

DRB 126C
EN-01242-16-REVA(396)

REWORK INSTRUCTIONS

WIRE ADDS SIDE 1 (AS SHOWN)

1-1 FROM E23 PIN 1 TO E10 PIN 1
1-2 FROM E28 PIN 7 TO E10 PIN 7
1-3 FROM E64 PIN 1 TO E46 PIN 1
1-4 FROM E64 PIN 7 TO E46 PIN 7
1-5 FROM E100 PIN 1 TO E82 PIN 1
1-6 FROM E100 PIN 7 TO E82 PIN 7
1-7 FROM E122 PIN 1 TO E109 PIN 1
1-8 FROM E122 PIN 7 TO E109 PIN 7
1-9 FROM E148 PIN 1 TO E135 PIN 1
1-10 FROM E148 PIN 7 TO E135 PIN 7
1-11 FROM E136 PIN 1 TO E123 PIN 1
1-12 FROM E136 PIN 7 TO E123 PIN 7
1-13 FROM E148 PIN 7 TO R76 TOP



NOTES:

STEP E	↑ Y AXIS ____ STEP ___ TIMES
REPEAT	→ X AXIS ____ STEP ___ TIMES

CHK	CHANGE NO	REV
	B	

ETCH REV. D2

SIGNATURES	DATE
DRN. B.E CASSIDY	
CHK'D.	
MECH. ENG.	
PROJ. ENG.	
PROD.	

digital

TITLE: MS630-B

SCALE 2:1 | SIZE D | CODE UA | NUMBER M7608-0-0 | REV B

SHT. 1 OF 1

NEXT HIGHER ASSY. B-DD-M7608-0-0

1 MS#275255

AUTOMATED BY PRTLST.5R(55) — P A R T S L I S T — SHEET A1 OF A2

LINE	ITEM	TOP DOCUMENT	PART NUMBER	REV	DESCRIPTION	QTY PER VARIATION AA B1	AC B1	AH B1	BA B1	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:					
1	1	D-MD-5016495-0-0	5016495-01		CIRCUIT DRILL AND ETCH	1	1	1	1	
2	2		1014265-02		.33 MFD 50V +80-20% CER	79	79	79	-	C36-C71,C108-C125.C128-C152
			CONT			-	-	-	155	C1-C155
3	3		1016549-00		47 MFD 10V +50-10% AL EL	2	2	2	2	C157,C160
4	4		1017472-00		10 MFD 35V +75-10% AL EL	4	4	4	4	C156,C158,C161,C162
5	5		1213113-03		HANDLE,MODULE	1	1	1	1	
6	6		1214094-03		PCB,HEADER 50PIN(2X25).100CC	1	1	1	1	J1
7	7		1300197-00		33.0 .25 W 5.0 % CF	28	28	28	-	R20,R36,R37,R39,R40,R42,R43,R45,
								CONT		R46,R48,R49,R51,R52,R54,R55,R57,
								CONT		R60,R64,R66,R67,R70,R74,R76,R80,
								CONT		R83,R86,R89,R92
			CONT			-	-	-	45	R1,R2,R5,R8,R11,R14,R17,R20,R23,
								CONT		R34,R36,R37,R39,R40,R42,R43,R45,
								CONT		R46,R48,R49,R51,R52,R54,R55,R57,
								CONT		R60,R63,R64,R66,R67,R70,R74,R76,
								CONT		R77,R80,R81,R83,R84,R86,R87,R89,
								CONT		R90,R92,R93,R96
8	8		1300202-00		47.0 .25 W 5.0 % CF	39	39	39	-	R3,R6,R9,R12,R15,R18,R21,R24,
								CONT		R26,R27,R29,R30,R32,R33,R35,R38,
								CONT		R41,R44,R47,R50,R53,R56,R58,R59,
								CONT		R61,R62,R65,R68,R71,R72,R73,R75,
								CONT		R78,R79,R82,R85,R88,R91,R94
			CONT			-	-	-	40	R3,R6,R9,R12,R15,R18,R21,R24,
								CONT		R26,R27,R29,R30,R32,R33,R35,R38,
								CONT		R41,R44,R47,R50,R53,R56,R58,R59,
								CONT		R61,R62,R65,R68,R71,R72,R73,R75,
								CONT		R78,R79,R82,R85,R88,R91,R94,R95
9	9		1301969-00		22.0 .25 W 5.0 % CF	-	-	-	11	R4,R7,R10,R13,R16,R19,R22,R25,
								CONT		R28,R31,R69
10	10		1302177-00		47.0 K .25 W 5.0 % CF	1	1	1	1	R97

REVISION HISTORY			BASIC PART NO: M7608			
ENG	ECO NUMBER	REV	SECTION A OF B			
---	INITIAL	A	SECTION.VARIATION INDEX	DRN: E. LANDRY	DATE: 08-AUG-84	D I G I T A L
MD	M7608-ML001	B	[A] AA,AC,AH,BA	CHK'D: D. DROZD	DATE: 08-AUG-84	TITLE PARTS LIST MS630-B MEMORY ARRAY
			[B] BC,BH	DES.ENG: M. DEMARE	DATE: 08-AUG-84	DOCUMENT NUMBER: SIZE K, CODE PL, NUMBER M7608-0-DBP, REV B
			[C]	RESP.ENG.: M. DEMARE	DATE: 08-AUG-84	
			[D]	MFG.ENG.: M. DEMARE	DATE: 08-AUG-84	RELEASE DATE: 08-MAR-85
			[E]	ASSEMBLY NUMBER: D-UA-M7608-0-00	TOP DOCUMENT NUMBER: B-DD-M7608-0-00	FILE NAME: Z8777B.PLS
			[F]			EDIT # 17
			[H]			
			[J]			
			[K]			
			[L]			
			[M]			
			[N]			

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION AA B1	AC B1	AH B1	BA B1	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:					
11	11		1921008-01		74F240 BUFFER/LINE DRIVER,I	5	5	5	-	E131,E132,E145-E147
			CONT			-	-	-	7	E118,E119,E131,E132,E145-E147
12	12		1921319-01		74F153 MUX,DUAL,4-IN	1	1	1	1	E144
13	13		1922871-01		TRANSCEIVER,PARITY B	4	4	4	4	E120,E121,E133,E134
14	14		2121413-02		41256 RAM 256KX1,DYNAMIC 1	-	-	72	-	E37-E72,E109-E117,E122-E130,
									CONT	E135-E143,E148-E156
15	15		2121415-02		81256-15 RAM 256KX1,DYNAMIC 1	-	72	-	-	E37-E72,E109-E117,E122-E130,
									CONT	E135-E143,E148-E156
16	16		2122421-02		*** THIS ITEM IS NOT USED ***	-	-	-	-	
17	17		9000024-01		EYELET,ROLLED 0.1210DX0.192	4	4	4	4	
18	18		9105740-55		WIRE(WRAP) 30AWG KYNAR UL14	A/R	A/R	A/R	A/R	

19 NOTE: M7608-AA IS THE PRIMARY VARIATION OF THE 2MB MEMORY WITH NO RAMS INDICATED.
20 NOTE: M7608-AC IS THE 2MB MEMORY WITH FUJISTSU 256K RAMS.
21 NOTE: M7608-AH IS THE 2MB MEMORY WITH NEC 256K RAMS.
22 NOTE: M7608-BA IS THE PRIMARY VARIATION OF THE 4 MB MEMORY MODULE WITH NO RAMS INDICATED.
23 NOTE: M7608-BC IS THE 4MB MEMORY WITH FUJISTSU 256K RAMS.
24 NOTE: M7608-BH IS THE 4MB MEMORY WITH NEC 256K RAMS.

D I G I T A L	TITLE MS630-B MEMORY ARRAY	SECTION A OF B	SIZE K	CODE PL	DOCUMENT NUMBER M7608-0-DBP	REV B

AUTOMATED BY PRTLST.5R(55) — P A R T S L I S T — SHEET B1 OF B2

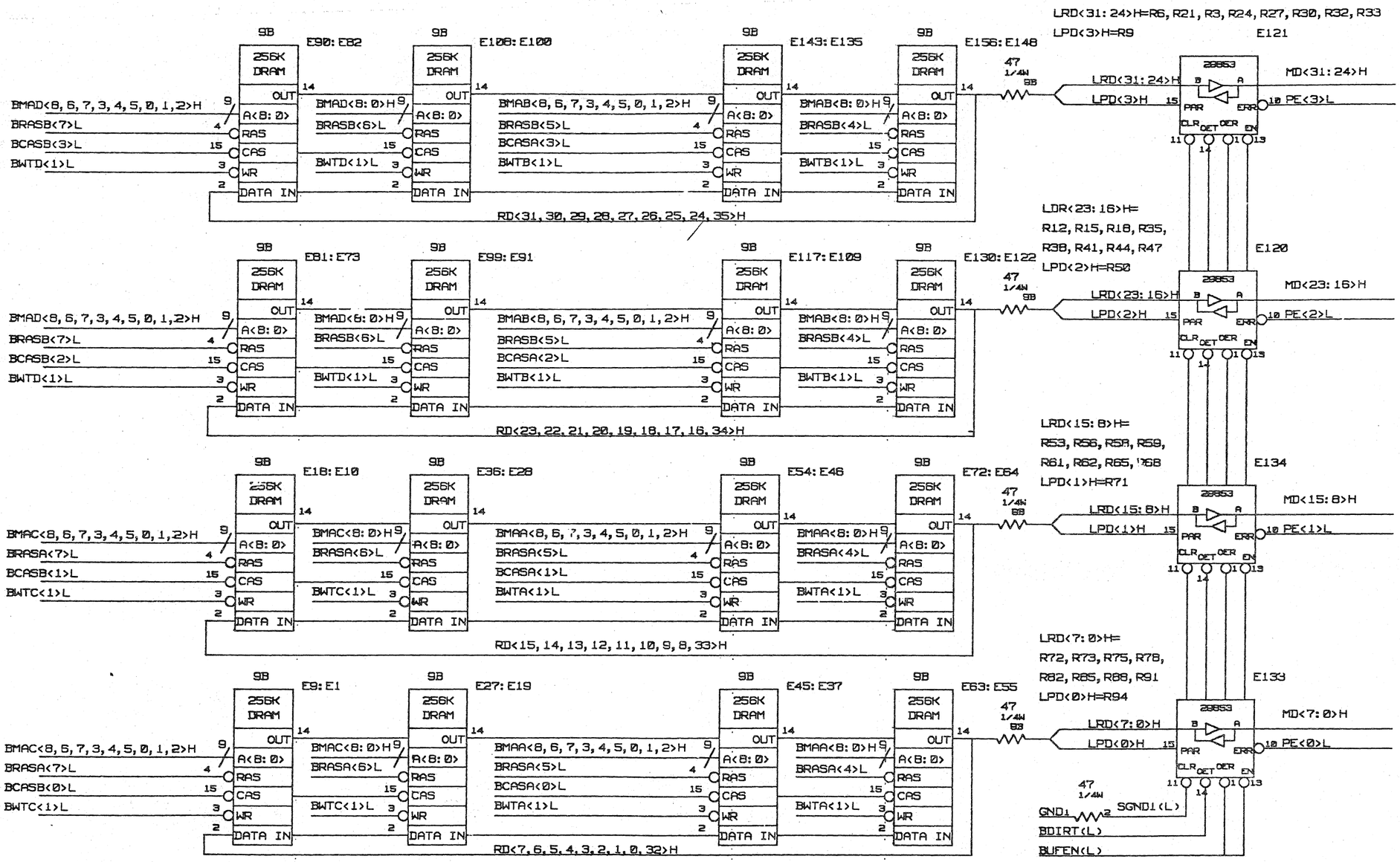
LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION BC B1	QTY PER VARIATION BH B1	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:			
1	1	D-MD-5016495-0-0	5016495-01		CIRCUIT DRILL AND ETCH	1	1	
2	2		1014265-02		.33 MFD 50V +80-20% CER	155	155	C1-C155
3	3		1016549-00		47 MFD 10V +50-10% AL EL	2	2	C157,C160
4	4		1017472-00		10 MFD 35V +75-10% AL EL	4	4	C156,C158,C161,C162
5	5		1213113-03		HANDLE,MODULE	1	1	
6	6		1214094-03		PCB,HEADER 50PIN(2X25).100CC	1	1	J1
7	7		1300197-00		33.0 .25 W 5.0 % CF	45	45	R1,R2,R5,R8,R11,R14,R17,R20,R23,
								CONT R34,R36,R37,R39,R40,R42,R43,R45,
								CONT R46,R48,R49,R51,R52,R54,R55,R57,
								CONT R60,R63,R64,R66,R67,R70,R74,R76,
								CONT R77,R80,R81,R83,R84,R86,R87,R89,
								CONT R90,R92,R93,R96
8	8		1300202-00		47.0 .25 W 5.0 % CF	40	40	R3,R6,R9,R12,R15,R18,R21,R24,
								CONT R26,R27,R29,R30,R32,R33,R35,R38,
								CONT R41,R44,R47,R50,R53,R56,R58,R59,
								CONT R61,R62,R65,R68,R71,R72,R73,R75,
								CONT R78,R79,R82,R85,R88,R91,R94,R95
9	9		1301969-00		22.0 .25 W 5.0 % CF	11	11	R4,R7,R10,R13,R16,R19,R22,R25,
								CONT R28,R31,R69
10	10		1302177-00		47.0 K .25 W 5.0 % CF	1	1	R97
11	11		1921008-01		74F240 BUFFER/LINE DRIVER,I	7	7	E118,E119,E131,E132,E145-E147
12	12		1921319-01		74F153 MUX,DUAL,4-IN	1	1	E144
13	13		1922871-01		TRANSCEIVER,PARITY B	4	4	E120,E121,E133,E134
14	14		2121413-02		41256 RAM 256KX1,DYNAMIC 1	-	144	E1-E117,E122-E130,E135-E143,
								CONT E148-E156
15	15		2121415-02		81256-15 RAM 256KX1,DYNAMIC 1	144	-	E1-E117,E122-E130,E135-E143,
								CONT E148-E156
16	16		2122421-02		*** THIS ITEM IS NOT USED ***	-	-	
17	17		9000024-01		EYELET,ROLLED 0.1210DX0.192	4	4	
18	18		9105740-55		WIRE(WRAP) 30AWG KYNAR UL14	A/R	A/R	

REVISION HISTORY			BASIC PART NO: M7608				
ENG	ECO NUMBER	REV	SECTION B OF B				
---	INITIAL	A	SECTION.VARIATION INDEX	DRN: E. LANDRY	DATE: 08-AUG-84	D I G I T A L	
MD	M7608-ML001	B	[A] AA,AC,AH,BA	CHK'D: D. DROZD	DATE: 08-AUG-84	TITLE PARTS LIST MS630-B MEMORY ARRAY	
			[B] BC,BH				
			[C]	DES.ENG: M. DEMARE	DATE: 08-AUG-84	DOCUMENT NUMBER	
			[D]			SIZE / CODE / NUMBER	REV
			[E]				
			[F]	RESP.ENG.: M. DEMARE	DATE: 08-AUG-84	K / PL / M7608-0-DBP	B
			[H]				
			[J]				
			[K]	MFG.ENG.: M. DEMARE	DATE: 08-AUG-84	RELEASE DATE: 08-MAR-85	
			[L]				
			[M]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #
			[N]	D-UA-M7608-0-00	B-DD-M7608-0-00	Z8777B.PLS	17

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION BC	QTY PER VARIATION BH	REFERENCE DESIGNATOR
				VARIATION REVISION LEVEL:	B1	B1	

19 NOTE: M7608-AA IS THE PRIMARY VARIATION OF THE 2MB MEMORY WITH NO RAMS INDICATED.
20 NOTE: M7608-AC IS THE 2MB MEMORY WITH FUJISTSU 256K RAMS.
21 NOTE: M7608-AH IS THE 2MB MEMORY WITH NEC 256K RAMS.
22 NOTE: M7608-BA IS THE PRIMARY VARIATION OF THE 4 MB MEMORY MODULE WITH NO RAMS INDICATED.
23 NOTE: M7608-BC IS THE 4MB MEMORY WITH FUJISTSU 256K RAMS.
24 NOTE: M7608-BH IS THE 4MB MEMORY WITH NEC 256K RAMS.

DIGITAL	TITLE: MS630-B MEMORY ARRAY	SECTION B OF B	SIZE: K	CODE: PL	DOCUMENT NUMBER: M7608-0-DBP	REV: B



NOTE:

RAM E1 through E36 and E73 through E108 are not present in the 2 Megabyte Module

REVISION HISTORY		
REV	ECO NUMBER	DATE

DEFINE
X_FIRST=0
X_STEP=SIZE

DRAWING
TITLE=MS630B
ABBREV=MSA

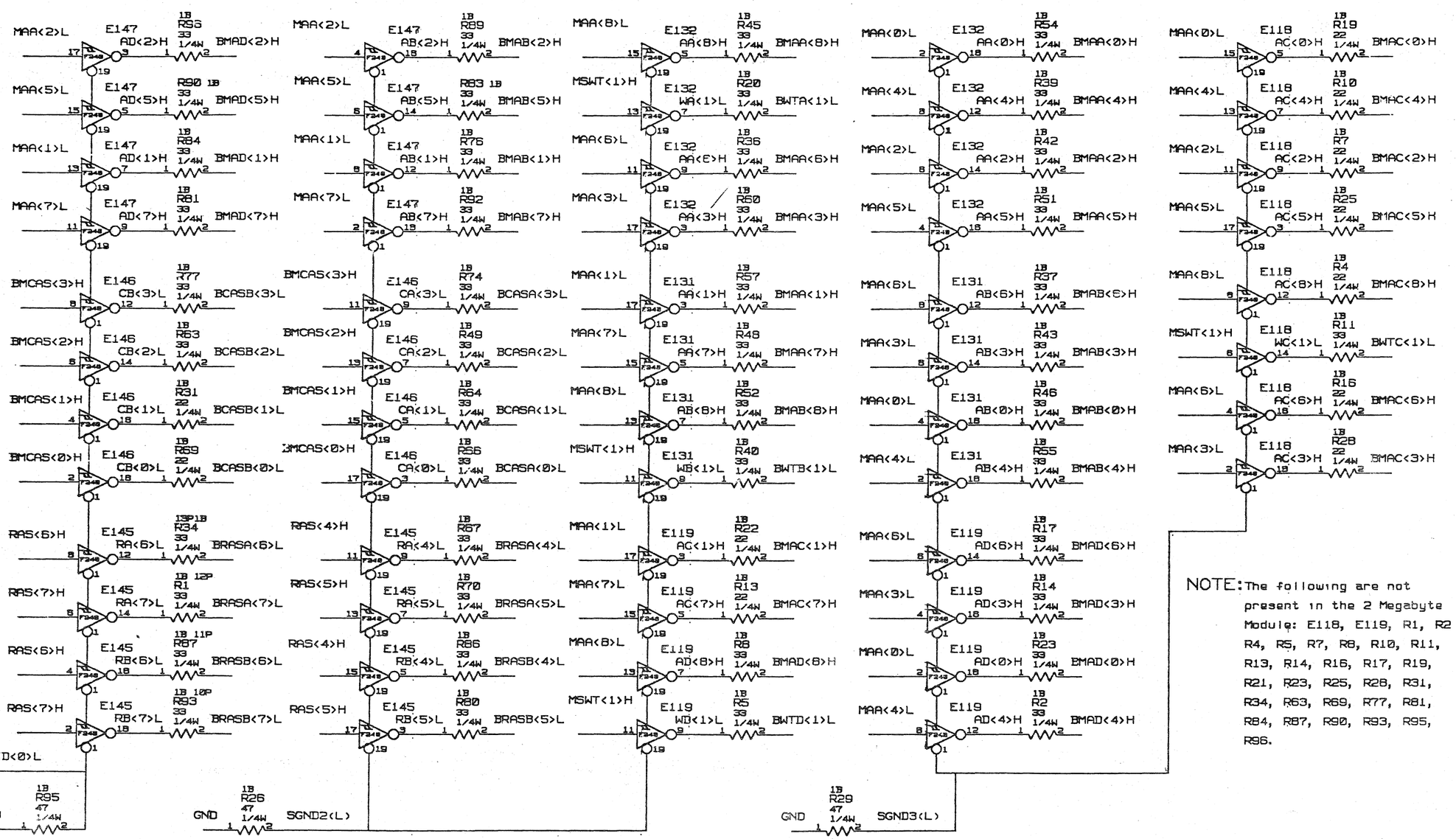
LAST_MODIFIED=Thu Mar 14 16:18:25 1985

digital

DRN: Malcolm de Mare	DATE 23-OCT-84	ENG: Malcolm de Mare	DATE 19-SEPT-84
CHK'D: Dave Drozd	DATE 23-OCT-84	SHEET 1 OF 12	
NEXT HIGHER ASSEMBLY: B-DD-M7608-0-0			

TITLE: MS630-B

SIZE	CODE	NUMBER	REV
K	CS	M7608-0-1	B



NOTE: The following are not present in the 2 Megabyte Module: E118, E119, R1, R2 R4, R5, R7, R8, R10, R11, R13, R14, R16, R17, R19, R21, R23, R25, R28, R31, R34, R63, R69, R77, R81, R84, R87, R90, R93, R95, R96.

REVISION HISTORY		
REV	ECO NUMBER	DATE

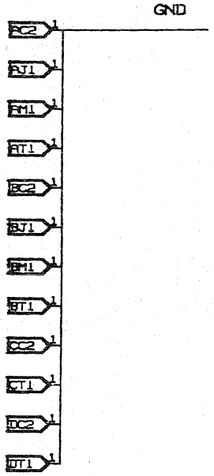
DRAWING

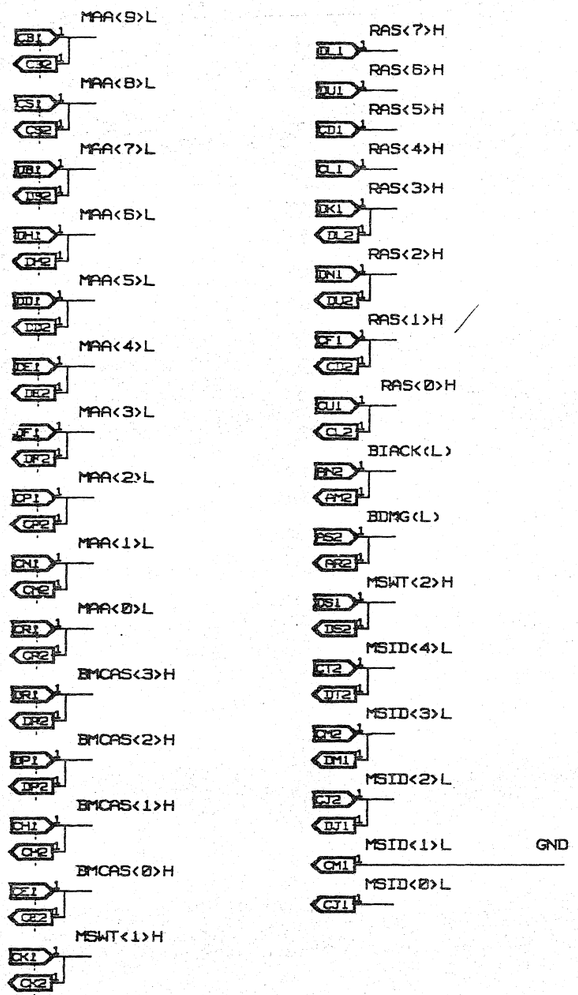
LAST_MODIFIED=Thu Mar 14 16:20:00 1985

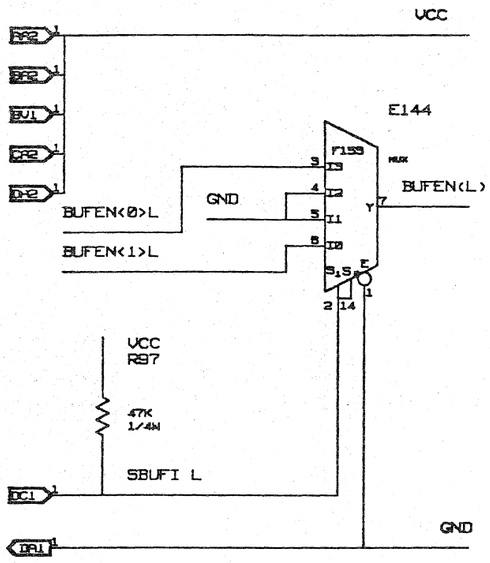
digital

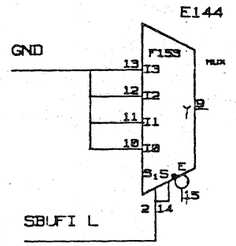
DRN: Malcolm de mare	DATE 23-OCT-84	ENG: Malcolm de Mare	DATE 20-SEP-84
CHK'D: Dave Drozd	DATE 23-OCT-84	SHEET 2 OF 12	
		NEXT HIGHER ASSEMBLY: B-DD-M7608-0-0	SIZE K / CODE CS / NUMBER M7608-0-1 / REV B

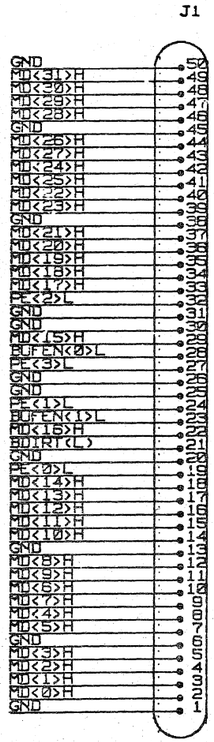
TITLE: MS630-B











VCC	155B	C155-C1
GND		.33uF 35V
VCC	4B	C182, C181, C158, C156
GND		33uF 35V
VCC	2B	C160, C157
GND		47UF 10V

NOTE: C1 through C36 and C73 through C108 are not present on the 2 Megabyte Module.

REVISION HISTORY		
REV	ECO NUMBER	DATE

DRAWING

LAST_MODIFIED=Thu Mar 14 16:21:40 1985

digital

DRN: Malcolm de Mare	DATE 23-OCT-84	ENG: Malcolm de Mare	DATE 20-SEP-84	TITLE: MS630-B	
CHK'D: Dave Drozd	DATE 23-OCT-84	SHEET 3 OF 12			
		NEXT HIGHER ASSEMBLY: B-DD-M7608-0-0		SIZE K / CODE CS / NUMBER M7608-0-1	REV B

SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN
AA0	E132	18	AD2	R96	1	BCASAL2	E117	15	BCASBL1	E29	15	BMAA0	E40	6	BMAA1	E62	7
AA0	R54	1	AD3	E119	16	BCASAL2	E122	15	BCASBL1	E30	15	BMAA0	E41	6	BMAA1	E63	7
AA1	E131	3	AD3	R14	1	BCASAL2	E123	15	BCASBL1	E31	15	BMAA0	E42	6	BMAA1	E64	7
AA1	R57	1	AD4	E119	12	BCASAL2	E124	15	BCASBL1	E32	15	BMAA0	E43	6	BMAA1	E65	7
AA2	E132	14	AD4	R2	1	BCASAL2	E125	15	BCASBL1	E33	15	BMAA0	E44	6	BMAA1	E66	7
AA2	R42	1	AD5	E147	5	BCASAL2	E126	15	BCASBL1	E34	15	BMAA0	E45	6	BMAA1	E67	7
AA3	E132	3	AD5	R90	1	BCASAL2	E127	15	BCASBL1	E35	15	BMAA0	E46	6	BMAA1	E68	7
AA3	R60	1	AD6	E119	14	BCASAL2	E128	15	BCASBL1	E36	15	BMAA0	E47	6	BMAA1	E69	7
AA4	E132	12	AD6	R17	1	BCASAL2	E129	15	BCASBL1	R31	2	BMAA0	E48	6	BMAA1	E70	7
AA4	R39	1	AD7	E147	9	BCASAL2	E130	15	BCASBL2	E73	15	BMAA0	E49	6	BMAA1	E71	7
AA5	E132	16	AD7	R81	1	BCASAL2	R49	2	BCASBL2	E74	15	BMAA0	E50	6	BMAA1	E72	7
AA5	R51	1	AD8	E119	7	BCASAL3	E135	15	BCASBL2	E75	15	BMAA0	E51	6	BMAA1	R57	2
AA6	E132	9	AD8	R8	1	BCASAL3	E136	15	BCASBL2	E76	15	BMAA0	E52	6	BMAA2	E37	5
AA6	R36	1	BCASAL0	E37	15	BCASAL3	E137	15	BCASBL2	E77	15	BMAA0	E53	6	BMAA2	E38	5
AA7	E131	5	BCASAL0	E38	15	BCASAL3	E138	15	BCASBL2	E78	15	BMAA0	E54	6	BMAA2	E39	5
AA7	R46	1	BCASAL0	E39	15	BCASAL3	E139	15	BCASBL2	E79	15	BMAA0	E55	5	BMAA2	E40	5
AA8	E132	5	BCASAL0	E40	15	BCASAL3	E140	15	BCASBL2	E80	15	BMAA0	E56	5	BMAA2	E41	5
AA8	R45	1	BCASAL0	E41	15	BCASAL3	E141	15	BCASBL2	E81	15	BMAA0	E57	5	BMAA2	E42	5
AB0	E131	16	BCASAL0	E42	15	BCASAL3	E142	15	BCASBL2	E91	15	BMAA0	E58	5	BMAA2	E43	5
AB0	R48	1	BCASAL0	E43	15	BCASAL3	E143	15	BCASBL2	E92	15	BMAA0	E59	5	BMAA2	E44	5
AB1	E147	12	BCASAL0	E44	15	BCASAL3	E148	15	BCASBL2	E93	15	BMAA0	E60	5	BMAA2	E45	5
AB1	R76	1	BCASAL0	E45	15	BCASAL3	E149	15	BCASBL2	E94	15	BMAA0	E61	5	BMAA2	E46	5
AB2	E147	16	BCASAL0	E55	15	BCASAL3	E150	15	BCASBL2	E95	15	BMAA0	E62	5	BMAA2	E47	5
AB2	R89	1	BCASAL0	E56	15	BCASAL3	E151	15	BCASBL2	E96	15	BMAA0	E63	5	BMAA2	E48	5
AB3	E131	14	BCASAL0	E57	15	BCASAL3	E152	15	BCASBL2	E97	15	BMAA0	E64	5	BMAA2	E49	5
AB3	R43	1	BCASAL0	E58	15	BCASAL3	E153	15	BCASBL2	E98	15	BMAA0	E65	5	BMAA2	E50	5
AB4	E131	18	BCASAL0	E59	15	BCASAL3	E154	15	BCASBL2	E99	15	BMAA0	E66	5	BMAA2	E51	5
AB4	R55	1	BCASAL0	E60	15	BCASAL3	E155	15	BCASBL2	R83	2	BMAA0	E67	5	BMAA2	E52	5
AB5	E147	14	BCASAL0	E61	15	BCASAL3	E156	15	BCASBL3	E100	15	BMAA0	E68	5	BMAA2	E53	5
AB5	R83	1	BCASAL0	E62	15	BCASAL3	R74	2	BCASBL3	E101	15	BMAA0	E69	5	BMAA2	E54	5
AB6	E131	12	BCASAL0	E63	15	BCASBL0	E1	15	BCASBL3	E102	15	BMAA0	E70	5	BMAA2	E55	6
AB6	R37	1	BCASAL0	R66	2	BCASBL0	E19	15	BCASBL3	E103	15	BMAA0	E71	5	BMAA2	E56	6
AB7	E147	18	BCASAL1	E46	15	BCASBL0	E2	15	BCASBL3	E104	15	BMAA0	E72	5	BMAA2	E57	6
AB7	R92	1	BCASAL1	E47	15	BCASBL0	E20	15	BCASBL3	E105	15	BMAA0	R54	2	BMAA2	E58	6
AB8	E131	7	BCASAL1	E48	15	BCASBL0	E21	15	BCASBL3	E106	15	BMAA1	E37	7	BMAA2	E59	6
AB8	R52	1	BCASAL1	E49	15	BCASBL0	E22	15	BCASBL3	E107	15	BMAA1	E38	7	BMAA2	E60	6
AC0	E118	5	BCASAL1	E50	15	BCASBL0	E23	15	BCASBL3	E108	15	BMAA1	E39	7	BMAA2	E61	6
AC0	R19	1	BCASAL1	E51	15	BCASBL0	E24	15	BCASBL3	E82	15	BMAA1	E40	7	BMAA2	E62	6
AC1	E119	3	BCASAL1	E52	15	BCASBL0	E25	15	BCASBL3	E83	15	BMAA1	E41	7	BMAA2	E63	6
AC1	R22	1	BCASAL1	E53	15	BCASBL0	E26	15	BCASBL3	E84	15	BMAA1	E42	7	BMAA2	E64	6
AC2	E118	9	BCASAL1	E54	15	BCASBL0	E27	15	BCASBL3	E85	15	BMAA1	E43	7	BMAA2	E65	6
AC2	R7	1	BCASAL1	E64	15	BCASBL0	E3	15	BCASBL3	E86	15	BMAA1	E44	7	BMAA2	E66	6
AC3	E118	18	BCASAL1	E65	15	BCASBL0	E4	15	BCASBL3	E87	15	BMAA1	E45	7	BMAA2	E67	6
AC3	R28	1	BCASAL1	E66	15	BCASBL0	E5	15	BCASBL3	E88	15	BMAA1	E46	7	BMAA2	E68	6
AC4	E118	7	BCASAL1	E67	15	BCASBL0	E6	15	BCASBL3	E89	15	BMAA1	E47	7	BMAA2	E69	6
AC4	R10	1	BCASAL1	E68	15	BCASBL0	E7	15	BCASBL3	E90	15	BMAA1	E48	7	BMAA2	E70	6
AC5	E118	3	BCASAL1	E69	15	BCASBL0	E8	15	BCASBL3	R77	2	BMAA1	E49	7	BMAA2	E71	6
AC5	R25	1	BCASAL1	E70	15	BCASBL0	E9	15	BDIRTL	E120	14	BMAA1	E50	7	BMAA2	E72	6
AC6	E118	16	BCASAL1	E71	15	BCASBL0	R69	2	BDIRTL	E121	14	BMAA1	E51	7	BMAA2	R42	2
AC6	R16	1	BCASAL1	E72	15	BCASBL1	E10	15	BDIRTL	E133	14	BMAA1	E52	7	BMAA3	E37	10
AC7	E119	5	BCASAL1	R64	2	BCASBL1	E11	15	BDIRTL	E134	14	BMAA1	E53	7	BMAA3	E38	10
AC7	R13	1	BCASAL2	E109	15	BCASBL1	E12	15	BDIRTL	J1	21	BMAA1	E54	7	BMAA3	E39	10
AC8	E118	12	BCASAL2	E110	15	BCASBL1	E13	15	BDMGL	AR2	1	BMAA1	E55	7	BMAA3	E40	10
AC8	R4	1	BCASAL2	E111	15	BCASBL1	E14	15	BDMGL	AS2	1	BMAA1	E56	7	BMAA3	E41	10
AD0	E119	18	BCASAL2	E112	15	BCASBL1	E15	15	BIACKL	AM2	1	BMAA1	E57	7	BMAA3	E42	10
AD0	R23	1	BCASAL2	E113	15	BCASBL1	E16	15	BIACKL	AN2	1	BMAA1	E58	7	BMAA3	E43	10
AD1	E147	7	BCASAL2	E114	15	BCASBL1	E17	15	BMAA0	E37	6	BMAA1	E59	7	BMAA3	E44	10
AD1	R84	1	BCASAL2	E115	15	BCASBL1	E18	15	BMAA0	E38	6	BMAA1	E60	7	BMAA3	E45	10
AD2	E147	3	BCASAL2	E116	15	BCASBL1	E28	15	BMAA0	E39	6	BMAA1	E61	7	BMAA3	E46	10

REVISION HISTORY		
REV	ECO NUMBER	DATE

DRAWING

LAST_MODIFIED=Thu Mar 14 16:22:38 1985

digital

DRN: Malcolm de Mare	DATE 23-OCT-84	ENG: Malcolm de Mare	DATE 20-SEP-84
CHK'D: Dave Drozd	DATE 23-OCT-84	SHEET 4 OF 12	
		NEXT HIGHER ASSEMBLY: B-DD-M7608-0-0	

TITLE: M5630-B

SIZE	CODE	NUMBER	REV
K	CS	M7608-0-1	B

SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN
BMAA3	E47	10	BMAA4	E69	11	BMAA6	E54	9
BMAA3	E48	10	BMAA4	E70	11	BMAA6	E55	13
BMAA3	E45	10	BMAA4	E71	11	BMAA6	E56	13
BMAA3	E50	10	BMAA4	E72	11	BMAA6	E57	13
BMAA3	E51	10	BMAA4	R39	2	BMAA6	E58	13
BMAA3	E52	10	BMAA5	E37	12	BMAA6	E59	13
BMAA3	E53	10	BMAA5	E38	12	BMAA6	E60	13
BMAA3	E54	10	BMAA5	E39	12	BMAA6	E61	13
BMAA3	E55	12	BMAA5	E40	12	BMAA6	E62	13
BMAA3	E56	12	BMAA5	E41	12	BMAA6	E63	13
BMAA3	E57	12	BMAA5	E42	12	BMAA6	E64	13
BMAA3	E58	12	BMAA5	E43	12	BMAA6	E65	13
BMAA3	E59	12	BMAA5	E44	12	BMAA6	E66	13
BMAA3	E60	12	BMAA5	E45	12	BMAA6	E67	13
BMAA3	E61	12	BMAA5	E46	12	BMAA6	E68	13
BMAA3	E62	12	BMAA5	E47	12	BMAA6	E69	13
BMAA3	E63	12	BMAA5	E48	12	BMAA6	E70	13
BMAA3	E64	12	BMAA5	E49	12	BMAA6	E71	13
BMAA3	E65	12	BMAA5	E50	12	BMAA6	E72	13
BMAA3	E66	12	BMAA5	E51	12	BMAA6	R36	2
BMAA3	E67	12	BMAA5	E52	12	BMAA7	E37	13
BMAA3	E68	12	BMAA5	E53	12	BMAA7	E38	13
BMAA3	E69	12	BMAA5	E54	12	BMAA7	E39	13
BMAA3	E70	12	BMAA5	E55	10	BMAA7	E40	13
BMAA3	E71	12	BMAA5	E56	10	BMAA7	E41	13
BMAA3	E72	12	BMAA5	E57	10	BMAA7	E42	13
BMAA3	R60	2	BMAA5	E58	10	BMAA7	E43	13
BMAA4	E37	11	BMAA5	E59	10	BMAA7	E44	13
BMAA4	E38	11	BMAA5	E60	10	BMAA7	E45	13
BMAA4	E39	11	BMAA5	E61	10	BMAA7	E46	13
BMAA4	E40	11	BMAA5	E62	10	BMAA7	E47	13
BMAA4	E41	11	BMAA5	E63	10	BMAA7	E48	13
BMAA4	E42	11	BMAA5	E64	10	BMAA7	E49	13
BMAA4	E43	11	BMAA5	E65	10	BMAA7	E50	13
BMAA4	E44	11	BMAA5	E66	10	BMAA7	E51	13
BMAA4	E45	11	BMAA5	E67	10	BMAA7	E52	13
BMAA4	E46	11	BMAA5	E68	10	BMAA7	E53	13
BMAA4	E47	11	BMAA5	E69	10	BMAA7	E54	13
BMAA4	E48	11	BMAA5	E70	10	BMAA7	E55	9
BMAA4	E49	11	BMAA5	E71	10	BMAA7	E56	9
BMAA4	E50	11	BMAA5	E72	10	BMAA7	E57	9
BMAA4	E51	11	BMAA5	R51	2	BMAA7	E58	9
BMAA4	E52	11	BMAA6	E37	9	BMAA7	E59	9
BMAA4	E53	11	BMAA6	E38	9	BMAA7	E60	9
BMAA4	E54	11	BMAA6	E39	9	BMAA7	E61	9
BMAA4	E55	11	BMAA6	E40	9	BMAA7	E62	9
BMAA4	E56	11	BMAA6	E41	9	BMAA7	E63	9
BMAA4	E57	11	BMAA6	E42	9	BMAA7	E64	9
BMAA4	E58	11	BMAA6	E43	9	BMAA7	E65	9
BMAA4	E59	11	BMAA6	E44	9	BMAA7	E66	9
BMAA4	E60	11	BMAA6	E45	9	BMAA7	E67	9
BMAA4	E61	11	BMAA6	E46	9	BMAA7	E68	9
BMAA4	E62	11	BMAA6	E47	9	BMAA7	E69	9
BMAA4	E63	11	BMAA6	E48	9	BMAA7	E70	9
BMAA4	E64	11	BMAA6	E49	9	BMAA7	E71	9
BMAA4	E65	11	BMAA6	E50	9	BMAA7	E72	9
BMAA4	E66	11	BMAA6	E51	9	BMAA7	R48	2
BMAA4	E67	11	BMAA6	E52	9	BMAA8	E37	7
BMAA4	E68	11	BMAA6	E53	9	BMAA8	E38	1

SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN
BMAA8	E39	1	BMAB0	E141	6	BMAB2	E122	6
BMAA8	E40	1	BMAB0	E142	6	BMAB2	E123	6
BMAA8	E41	1	BMAB0	E143	6	BMAB2	E124	6
BMAA8	E42	1	BMAB0	E148	5	BMAB2	E125	6
BMAA8	E43	1	BMAB0	E149	5	BMAB2	E126	6
BMAA8	E44	1	BMAB0	E150	5	BMAB2	E127	6
BMAA8	E45	1	BMAB0	E151	5	BMAB2	E128	6
BMAA8	E46	1	BMAB0	E152	5	BMAB2	E129	6
BMAA8	E47	1	BMAB0	E153	5	BMAB2	E130	6
BMAA8	E48	1	BMAB0	E154	5	BMAB2	E135	5
BMAA8	E49	1	BMAB0	E155	5	BMAB2	E136	5
BMAA8	E50	1	BMAB0	E156	5	BMAB2	E137	5
BMAA8	E51	1	BMAB0	R46	2	BMAB2	E138	5
BMAA8	E52	1	BMAB1	E109	7	BMAB2	E139	5
BMAA8	E53	1	BMAB1	E110	7	BMAB2	E140	5
BMAA8	E54	1	BMAB1	E111	7	BMAB2	E141	5
BMAA8	E55	1	BMAB1	E112	7	BMAB2	E142	5
BMAA8	E56	1	BMAB1	E113	7	BMAB2	E143	5
BMAA8	E57	1	BMAB1	E114	7	BMAB2	E148	6
BMAA8	E58	1	BMAB1	E115	7	BMAB2	E149	6
BMAA8	E59	1	BMAB1	E116	7	BMAB2	E150	6
BMAA8	E60	1	BMAB1	E117	7	BMAB2	E151	6
BMAA8	E61	1	BMAB1	E122	7	BMAB2	E152	6
BMAA8	E62	1	BMAB1	E123	7	BMAB2	E153	6
BMAA8	E63	1	BMAB1	E124	7	BMAB2	E154	6
BMAA8	E64	1	BMAB1	E125	7	BMAB2	E155	6
BMAA8	E65	1	BMAB1	E126	7	BMAB2	E156	6
BMAA8	E66	1	BMAB1	E127	7	BMAB2	R89	2
BMAA8	E67	1	BMAB1	E128	7	BMAB3	E109	10
BMAA8	E68	1	BMAB1	E129	7	BMAB3	E110	10
BMAA8	E69	1	BMAB1	E130	7	BMAB3	E111	10
BMAA8	E70	1	BMAB1	E135	7	BMAB3	E112	10
BMAA8	E71	1	BMAB1	E136	7	BMAB3	E113	10
BMAA8	E72	1	BMAB1	E137	7	BMAB3	E114	10
BMAA8	R45	2	BMAB1	E138	7	BMAB3	E115	10
BMAB0	E109	6	BMAB1	E139	7	BMAB3	E116	10
BMAB0	E110	6	BMAB1	E140	7	BMAB3	E117	10
BMAB0	E111	6	BMAB1	E141	7	BMAB3	E122	12
BMAB0	E112	6	BMAB1	E142	7	BMAB3	E123	12
BMAB0	E113	6	BMAB1	E143	7	BMAB3	E124	12
BMAB0	E114	6	BMAB1	E148	7	BMAB3	E125	12
BMAB0	E115	6	BMAB1	E149	7	BMAB3	E126	12
BMAB0	E116	6	BMAB1	E150	7	BMAB3	E127	12
BMAB0	E117	6	BMAB1	E151	7	BMAB3	E128	12
BMAB0	E122	5	BMAB1	E152	7	BMAB3	E129	12
BMAB0	E123	5	BMAB1	E153	7	BMAB3	E130	12
BMAB0	E124	5	BMAB1	E154	7	BMAB3	E135	10
BMAB0	E125	5	BMAB1	E155	7	BMAB3	E136	10
BMAB0	E126	5	BMAB1	E156	7	BMAB3	E137	10
BMAB0	E127	5	BMAB1	R76	2	BMAB3	E138	10
BMAB0	E128	5	BMAB2	E109	5	BMAB3	E139	10
BMAB0	E129	5	BMAB2	E110	5	BMAB3	E140	10
BMAB0	E130	5	BMAB2	E111	5	BMAB3	E141	10
BMAB0	E135	6	BMAB2	E112	5	BMAB3	E142	10
BMAB0	E136	6	BMAB2	E113	5	BMAB3	E143	10
BMAB0	E137	6	BMAB2	E114	5	BMAB3	E148	12
BMAB0	E138	6	BMAB2	E115	5	BMAB3	E149	12
BMAB0	E139	6	BMAB2	E116	5	BMAB3	E150	12
BMAB0	E140	6	BMAB2	E117	5	BMAB3	E151	12

REVISION HISTORY		
REV	ECO NUMBER	DATE

DRAWING

LAST_MODIFIED=Thu Mar 14 16:23:17 1985

digital

DRN: Malcolm de Mare	DATE 23-OCT-84	ENG: Malcolm de Mare	DATE 20-SEP-84
CHK'D: Dave Drozd	DATE 23-OCT-84	SHEET 5 OF 12	
		NEXT HIGHER ASSEMBLY: B-DD-M7608-0-0	

TITLE: MS630-B

SIZE	CODE	NUMBER	REV
K	CS	M7608-0-1	B

SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN
BMAB3	E152	12	BMAB5	E129	10	BMAB7	E110	13	BMAB8	E140	1	BMAC1	E17	7	BMAC2	E4	5
BMAB3	E153	12	BMAB5	E130	10	BMAB7	E111	13	BMAB8	E141	1	BMAC1	E18	7	BMAC2	E5	5
BMAB3	E154	12	BMAB5	E135	12	BMAB7	E112	13	BMAB8	E142	1	BMAC1	E19	7	BMAC2	E6	5
BMAB3	E155	12	BMAB5	E136	12	BMAB7	E113	13	BMAB8	E143	1	BMAC1	E2	7	BMAC2	E7	5
BMAB3	E156	12	BMAB5	E137	12	BMAB7	E114	13	BMAB8	E148	1	BMAC1	E20	7	BMAC2	E8	5
BMAB3	R43	2	BMAB5	E138	12	BMAB7	E115	13	BMAB8	E149	1	BMAC1	E21	7	BMAC2	E9	5
BMAB4	E109	11	BMAB5	E139	12	BMAB7	E116	13	BMAB8	E150	1	BMAC1	E22	7	BMAC2	R7	2
BMAB4	E110	11	BMAB5	E140	12	BMAB7	E117	13	BMAB8	E151	1	BMAC1	E23	7	BMAC3	E1	10
BMAB4	E111	11	BMAB5	E141	12	BMAB7	E122	9	BMAB8	E152	1	BMAC1	E24	7	BMAC3	E10	10
BMAB4	E112	11	BMAB5	E142	12	BMAB7	E123	9	BMAB8	E153	1	BMAC1	E25	7	BMAC3	E11	10
BMAB4	E113	11	BMAB5	E143	12	BMAB7	E124	9	BMAB8	E154	1	BMAC1	E26	7	BMAC3	E12	10
BMAB4	E114	11	BMAB5	E148	10	BMAB7	E125	9	BMAB8	E155	1	BMAC1	E27	7	BMAC3	E13	10
BMAB4	E115	11	BMAB5	E149	10	BMAB7	E126	9	BMAB8	E156	1	BMAC1	E28	7	BMAC3	E14	10
BMAB4	E116	11	BMAB5	E150	10	BMAB7	E127	9	BMAB8	R52	2	BMAC1	E29	7	BMAC3	E15	10
BMAB4	E117	11	BMAB5	E151	10	BMAB7	E128	9	BMAC0	E1	6	BMAC1	E3	7	BMAC3	E16	10
BMAB4	E122	11	BMAB5	E152	10	BMAB7	E129	9	BMAC0	E10	6	BMAC1	E30	7	BMAC3	E17	10
BMAB4	E123	11	BMAB5	E153	10	BMAB7	E130	9	BMAC0	E11	6	BMAC1	E31	7	BMAC3	E18	10
BMAB4	E124	11	BMAB5	E154	10	BMAB7	E135	13	BMAC0	E12	6	BMAC1	E32	7	BMAC3	E19	12
BMAB4	E125	11	BMAB5	E155	10	BMAB7	E136	13	BMAC0	E13	6	BMAC1	E33	7	BMAC3	E2	10
BMAB4	E126	11	BMAB5	E156	10	BMAB7	E137	13	BMAC0	E14	6	BMAC1	E34	7	BMAC3	E20	12
BMAB4	E127	11	BMAB5	R83	2	BMAB7	E138	13	BMAC0	E15	6	BMAC1	E35	7	BMAC3	E21	12
BMAB4	E128	11	BMAB6	E109	9	BMAB7	E139	13	BMAC0	E16	6	BMAC1	E36	7	BMAC3	E22	12
BMAB4	E129	11	BMAB6	E110	9	BMAB7	E140	13	BMAC0	E17	6	BMAC1	E4	7	BMAC3	E23	12
BMAB4	E130	11	BMAB6	E111	9	BMAB7	E141	13	BMAC0	E18	6	BMAC1	E5	7	BMAC3	E24	12
BMAB4	E135	11	BMAB6	E112	9	BMAB7	E142	13	BMAC0	E19	5	BMAC1	E6	7	BMAC3	E25	12
BMAB4	E136	11	BMAB6	E113	9	BMAB7	E143	13	BMAC0	E2	6	BMAC1	E7	7	BMAC3	E26	12
BMAB4	E137	11	BMAB6	E114	9	BMAB7	E148	9	BMAC0	E20	5	BMAC1	E8	7	BMAC3	E27	12
BMAB4	E138	11	BMAB6	E115	9	BMAB7	E149	9	BMAC0	E21	5	BMAC1	E9	7	BMAC3	E28	12
BMAB4	E139	11	BMAB6	E116	9	BMAB7	E150	9	BMAC0	E22	5	BMAC1	R22	2	BMAC3	E29	12
BMAB4	E140	11	BMAB6	E117	9	BMAB7	E151	9	BMAC0	E23	5	BMAC2	E1	5	BMAC3	E3	10
BMAB4	E141	11	BMAB6	E122	13	BMAB7	E152	9	BMAC0	E24	5	BMAC2	E10	5	BMAC3	E30	12
BMAB4	E142	11	BMAB6	E123	13	BMAB7	E153	9	BMAC0	E25	5	BMAC2	E11	5	BMAC3	E31	12
BMAB4	E143	11	BMAB6	E124	13	BMAB7	E154	9	BMAC0	E26	5	BMAC2	E12	5	BMAC3	E32	12
BMAB4	E148	11	BMAB6	E125	13	BMAB7	E155	9	BMAC0	E27	5	BMAC2	E13	5	BMAC3	E33	12
BMAB4	E149	11	BMAB6	E126	13	BMAB7	E156	9	BMAC0	E28	5	BMAC2	E14	5	BMAC3	E34	12
BMAB4	E150	11	BMAB6	E127	13	BMAB7	R82	2	BMAC0	E29	5	BMAC2	E15	5	BMAC3	E35	12
BMAB4	E151	11	BMAB6	E128	13	BMAB8	E109	1	BMAC0	E3	6	BMAC2	E16	5	BMAC3	E36	12
BMAB4	E152	11	BMAB6	E129	13	BMAB8	E110	1	BMAC0	E30	5	BMAC2	E17	5	BMAC3	E4	10
BMAB4	E153	11	BMAB6	E130	13	BMAB8	E111	1	BMAC0	E31	5	BMAC2	E18	5	BMAC3	E5	10
BMAB4	E154	11	BMAB6	E135	9	BMAB8	E112	1	BMAC0	E32	5	BMAC2	E19	6	BMAC3	E6	10
BMAB4	E155	11	BMAB6	E136	9	BMAB8	E113	1	BMAC0	E33	5	BMAC2	E2	5	BMAC3	E7	10
BMAB4	E156	11	BMAB6	E137	9	BMAB8	E114	1	BMAC0	E34	5	BMAC2	E20	6	BMAC3	E8	10
BMAB4	R55	2	BMAB6	E138	9	BMAB8	E115	1	BMAC0	E35	5	BMAC2	E21	6	BMAC3	E9	10
BMAB5	E109	12	BMAB6	E139	9	BMAB8	E116	1	BMAC0	E36	5	BMAC2	E22	6	BMAC3	R28	2
BMAB5	E110	12	BMAB6	E140	9	BMAB8	E117	1	BMAC0	E4	6	BMAC2	E23	6	BMAC4	E1	11
BMAB5	E111	12	BMAB6	E141	9	BMAB8	E122	1	BMAC0	E5	6	BMAC2	E24	6	BMAC4	E10	11
BMAB5	E112	12	BMAB6	E142	9	BMAB8	E123	1	BMAC0	E6	6	BMAC2	E25	6	BMAC4	E11	11
BMAB5	E113	12	BMAB6	E143	9	BMAB8	E124	1	BMAC0	E7	6	BMAC2	E26	6	BMAC4	E12	11
BMAB5	E114	12	BMAB6	E148	13	BMAB8	E125	1	BMAC0	E8	6	BMAC2	E27	6	BMAC4	E13	11
BMAB5	E115	12	BMAB6	E149	13	BMAB8	E126	1	BMAC0	E9	6	BMAC2	E28	6	BMAC4	E14	11
BMAB5	E116	12	BMAB6	E150	13	BMAB8	E127	1	BMAC0	R19	2	BMAC2	E29	6	BMAC4	E15	11
BMAB5	E117	12	BMAB6	E151	13	BMAB8	E128	1	BMAC1	E1	7	BMAC2	E3	5	BMAC4	E16	11
BMAB5	E122	10	BMAB6	E152	13	BMAB8	E129	1	BMAC1	E10	7	BMAC2	E30	6	BMAC4	E17	11
BMAB5	E123	10	BMAB6	E153	13	BMAB8	E130	1	BMAC1	E11	7	BMAC2	E31	6	BMAC4	E18	11
BMAB5	E124	10	BMAB6	E154	13	BMAB8	E135	1	BMAC1	E12	7	BMAC2	E32	6	BMAC4	E19	11
BMAB5	E125	10	BMAB6	E155	13	BMAB8	E136	1	BMAC1	E13	7	BMAC2	E33	6	BMAC4	E2	11
BMAB5	E126	10	BMAB6	E156	13	BMAB8	E137	1	BMAC1	E14	7	BMAC2	E34	6	BMAC4	E20	11
BMAB5	E127	10	BMAB6	R37	2	BMAB8	E138	1	BMAC1	E15	7	BMAC2	E35	6	BMAC4	E21	11
BMAB5	E128	10	BMAB7	E109	13	BMAB8	E139	1	BMAC1	E16	7	BMAC2	E36	6	BMAC4	E22	11

REVISION HISTORY		
REV	ECO NUMBER	DATE

DRAWING

LAST_MODIFIED=Tue Mar 18 17:46:05 1986

digital

DRN: Malcolm de Mare	DATE 23-OCT-84	ENG: Malcolm de Mare	DATE 20-SEP-84
CHK'D: Dave Drozd	DATE 23-OCT-84	SHEET 6 OF 12	
		NEXT HIGHER ASSEMBLY: B-DD-M7608-0-0	

TITLE: MS630-B

SIZE	CODE	NUMBER	REV
K	CS	M7608-0-1	B

SIGNAL	PART	PIN
BMAC4	E23	11
BMAC4	E24	11
BMAC4	E25	11
BMAC4	E26	11
BMAC4	E27	11
BMAC4	E28	11
BMAC4	E29	11
BMAC4	E3	11
BMAC4	E30	11
BMAC4	E31	11
BMAC4	E32	11
BMAC4	E33	11
BMAC4	E34	11
BMAC4	E35	11
BMAC4	E36	11
BMAC4	E4	11
BMAC4	E5	11
BMAC4	E6	11
BMAC4	E7	11
BMAC4	E8	11
BMAC4	E9	11
BMAC4	R10	2
BMAC5	E1	12
BMAC5	E10	12
BMAC5	E11	12
BMAC5	E12	12
BMAC5	E13	12
BMAC5	E14	12
BMAC5	E15	12
BMAC5	E16	12
BMAC5	E17	12
BMAC5	E18	12
BMAC5	E19	10
BMAC5	E2	12
BMAC5	E20	10
BMAC5	E21	10
BMAC5	E22	10
BMAC5	E23	10
BMAC5	E24	10
BMAC5	E25	10
BMAC5	E26	10
BMAC5	E27	10
BMAC5	E28	10
BMAC5	E29	10
BMAC5	E3	12
BMAC5	E30	10
BMAC5	E31	10
BMAC5	E32	10
BMAC5	E33	10
BMAC5	E34	10
BMAC5	E35	10
BMAC5	E36	10
BMAC5	E4	12
BMAC5	E5	12
BMAC5	E6	12
BMAC5	E7	12
BMAC5	E8	12
BMAC5	E9	12
BMAC5	R25	2

SIGNAL	PART	PIN
BMAC6	E1	9
BMAC6	E10	9
BMAC6	E11	9
BMAC6	E12	9
BMAC6	E13	9
BMAC6	E14	9
BMAC6	E15	9
BMAC6	E16	9
BMAC6	E17	9
BMAC6	E18	9
BMAC6	E19	13
BMAC6	E2	9
BMAC6	E20	13
BMAC6	E21	13
BMAC6	E22	13
BMAC6	E23	13
BMAC6	E24	13
BMAC6	E25	13
BMAC6	E26	13
BMAC6	E27	13
BMAC6	E28	13
BMAC6	E29	13
BMAC6	E3	9
BMAC6	E30	13
BMAC6	E31	13
BMAC6	E32	13
BMAC6	E33	13
BMAC6	E34	13
BMAC6	E35	13
BMAC6	E36	13
BMAC6	E4	9
BMAC6	E5	9
BMAC6	E6	9
BMAC6	E7	9
BMAC6	E8	9
BMAC6	E9	9
BMAC6	R16	2
BMAC7	E1	13
BMAC7	E10	13
BMAC7	E11	13
BMAC7	E12	13
BMAC7	E13	13
BMAC7	E14	13
BMAC7	E15	13
BMAC7	E16	13
BMAC7	E17	13
BMAC7	E18	13
BMAC7	E19	9
BMAC7	E2	13
BMAC7	E20	9
BMAC7	E21	9
BMAC7	E22	9
BMAC7	E23	9
BMAC7	E24	9
BMAC7	E25	9
BMAC7	E26	9
BMAC7	E27	9
BMAC7	E28	9
BMAC7	E29	9

SIGNAL	PART	PIN
BMAC7	E3	13
BMAC7	E30	9
BMAC7	E31	9
BMAC7	E32	9
BMAC7	E33	9
BMAC7	E34	9
BMAC7	E35	9
BMAC7	E36	9
BMAC7	E4	13
BMAC7	E5	13
BMAC7	E6	13
BMAC7	E7	13
BMAC7	E8	13
BMAC7	E9	13
BMAC7	R13	2
BMAC8	E1	1
BMAC8	E10	1
BMAC8	E11	1
BMAC8	E12	1
BMAC8	E13	1
BMAC8	E14	1
BMAC8	E15	1
BMAC8	E16	1
BMAC8	E17	1
BMAC8	E18	1
BMAC8	E19	1
BMAC8	E2	1
BMAC8	E20	1
BMAC8	E21	1
BMAC8	E22	1
BMAC8	E23	1
BMAC8	E24	1
BMAC8	E25	1
BMAC8	E26	1
BMAC8	E27	1
BMAC8	E28	1
BMAC8	E29	1
BMAC8	E3	1
BMAC8	E30	1
BMAC8	E31	1
BMAC8	E32	1
BMAC8	E33	1
BMAC8	E34	1
BMAC8	E35	1
BMAC8	E36	1
BMAC8	E4	1
BMAC8	E5	1
BMAC8	E6	1
BMAC8	E7	1
BMAC8	E8	1
BMAC8	E9	1
BMAC8	R4	2
BMAD0	E100	5
BMAD0	E101	5
BMAD0	E102	5
BMAD0	E103	5
BMAD0	E104	5
BMAD0	E105	5
BMAD0	E106	5

SIGNAL	PART	PIN
BMAD0	E107	5
BMAD0	E108	5
BMAD0	E73	6
BMAD0	E74	6
BMAD0	E75	6
BMAD0	E76	6
BMAD0	E77	6
BMAD0	E78	6
BMAD0	E79	6
BMAD0	E80	6
BMAD0	E81	6
BMAD0	E82	
BMAD0	E83	6
BMAD0	E84	6
BMAD0	E85	6
BMAD0	E86	6
BMAD0	E87	6
BMAD0	E88	6
BMAD0	E89	6
BMAD0	E90	6
BMAD0	E91	5
BMAD0	E92	5
BMAD0	E93	5
BMAD0	E94	5
BMAD0	E95	5
BMAD0	E96	5
BMAD0	E97	5
BMAD0	E98	5
BMAD0	E99	5
BMAD0	R23	2
BMAD1	E100	7
BMAD1	E101	7
BMAD1	E102	7
BMAD1	E103	7
BMAD1	E104	7
BMAD1	E105	7
BMAD1	E106	7
BMAD1	E107	7
BMAD1	E108	7
BMAD1	E73	7
BMAD1	E74	7
BMAD1	E75	7
BMAD1	E76	7
BMAD1	E77	7
BMAD1	E78	7
BMAD1	E79	7
BMAD1	E80	7
BMAD1	E81	7
BMAD1	E82	7
BMAD1	E83	7
BMAD1	E84	7
BMAD1	E85	7
BMAD1	E86	7
BMAD1	E87	7
BMAD1	E88	7
BMAD1	E89	7
BMAD1	E90	7
BMAD1	E91	7
BMAD1	E92	7

SIGNAL	PART	PIN
BMAD1	E93	7
BMAD1	E94	7
BMAD1	E95	7
BMAD1	E96	7
BMAD1	E97	7
BMAD1	E98	7
BMAD1	E99	7
BMAD1	R84	2
BMAD2	E100	6
BMAD2	E101	6
BMAD2	E102	6
BMAD2	E103	6
BMAD2	E104	6
BMAD2	E105	6
BMAD2	E106	6
BMAD2	E107	6
BMAD2	E108	6
BMAD2	E73	5
BMAD2	E74	5
BMAD2	E75	5
BMAD2	E76	5
BMAD2	E77	5
BMAD2	E78	5
BMAD2	E79	5
BMAD2	E80	5
BMAD2	E81	5
BMAD2	E82	5
BMAD2	E83	5
BMAD2	E84	5
BMAD2	E85	5
BMAD2	E86	5
BMAD2	E87	5
BMAD2	E88	5
BMAD2	E89	5
BMAD2	E90	5
BMAD2	E91	6
BMAD2	E92	6
BMAD2	E93	6
BMAD2	E94	6
BMAD2	E95	6
BMAD2	E96	6
BMAD2	E97	6
BMAD2	E98	6
BMAD2	E99	6
BMAD2	R96	2
BMAD3	E100	12
BMAD3	E101	12
BMAD3	E102	12
BMAD3	E103	12
BMAD3	E104	12
BMAD3	E105	12
BMAD3	E106	12
BMAD3	E107	12
BMAD3	E108	12
BMAD3	E73	10
BMAD3	E74	10
BMAD3	E75	10
BMAD3	E76	10
BMAD3	E77	10

SIGNAL	PART	PIN
BMAD3	E78	10
BMAD3	E79	10
BMAD3	E80	10
BMAD3	E81	10
BMAD3	E82	10
BMAD3	E83	10
BMAD3	E84	10
BMAD3	E85	10
BMAD3	E86	10
BMAD3	E87	10
BMAD3	E88	10
BMAD3	E89	10
BMAD3	E90	10
BMAD3	E91	12
BMAD3	E92	12
BMAD3	E93	12
BMAD3	E94	12
BMAD3	E95	12
BMAD3	E96	12
BMAD3	E97	12
BMAD3	E98	12
BMAD3	E99	12
BMAD3	R14	2
BMAD4	E100	11
BMAD4	E101	11
BMAD4	E102	11
BMAD4	E103	11
BMAD4	E104	11
BMAD4	E105	11
BMAD4	E106	11
BMAD4	E107	11
BMAD4	E108	11
BMAD4	E73	11
BMAD4	E74	11
BMAD4	E75	11
BMAD4	E76	11
BMAD4	E77	11
BMAD4	E78	11
BMAD4	E79	11
BMAD4	E80	11
BMAD4	E81	11
BMAD4	E82	11
BMAD4	E83	11
BMAD4	E84	11
BMAD4	E85	11
BMAD4	E86	11
BMAD4	E87	11
BMAD4	E88	11
BMAD4	E89	11
BMAD4	E90	11
BMAD4	E91	11
BMAD4	E92	11
BMAD4	E93	11
BMAD4	E94	11
BMAD4	E95	11
BMAD4	E96	11
BMAD4	E97	11
BMAD4	E98	11
BMAD4	E99	11

REVISION HISTORY		
REV	ECO NUMBER	DATE

DRAWING

LAST_MODIFIED=Thu Mar 14 16:24:25 1985

digital

DRN: Malcolm de Mare	DATE 29-OCT-84	ENG: Malcolm de Mare	DATE 20-SEP-84
CHK'D: Dave Drozd	DATE 29-OCT-84	SHEET 7 OF 12	
		NEXT HIGHER ASSEMBLY: B-DD-M7608-0-0	

TITLE: MS630-B

SIZE	CODE	NUMBER	REV
K	CS	M7608-0-1	B

SIGNAL	PART	PIN
BMAD4	R2	2
BMAD5	E100	10
BMAD5	E101	10
BMAD5	E102	10
BMAD5	E103	10
BMAD5	E104	10
BMAD5	E105	10
BMAD5	E106	10
BMAD5	E107	10
BMAD5	E108	10
BMAD5	E73	12
BMAD5	E74	12
BMAD5	E75	12
BMAD5	E76	12
BMAD5	E77	12
BMAD5	E78	12
BMAD5	E79	12
BMAD5	E80	12
BMAD5	E81	12
BMAD5	E82	12
BMAD5	E83	12
BMAD5	E84	12
BMAD5	E85	12
BMAD5	E86	12
BMAD5	E87	12
BMAD5	E88	12
BMAD5	E89	12
BMAD5	E90	12
BMAD5	E91	10
BMAD5	E92	10
BMAD5	E93	10
BMAD5	E94	10
BMAD5	E95	10
BMAD5	E96	10
BMAD5	E97	10
BMAD5	E98	10
BMAD5	E99	10
BMAD5	R90	2
BMAD6	E100	13
BMAD6	E101	13
BMAD6	E102	13
BMAD6	E103	13
BMAD6	E104	13
BMAD6	E105	13
BMAD6	E106	13
BMAD6	E107	13
BMAD6	E108	13
BMAD6	E73	9
BMAD6	E74	9
BMAD6	E75	9
BMAD6	E76	9
BMAD6	E77	9
BMAD6	E78	9
BMAD6	E79	9
BMAD6	E80	9
BMAD6	E81	9
BMAD6	E82	9
BMAD6	E83	9
BMAD6	E84	9

SIGNAL	PART	PIN
BMAD6	E85	9
BMAD6	E86	9
BMAD6	E87	9
BMAD6	E88	9
BMAD6	E89	9
BMAD6	E90	9
BMAD6	E91	13
BMAD6	E92	13
BMAD6	E93	13
BMAD6	E94	13
BMAD6	E95	13
BMAD6	E96	13
BMAD6	E97	13
BMAD6	E98	13
BMAD6	E99	13
BMAD6	R17	2
BMAD7	E100	9
BMAD7	E101	9
BMAD7	E102	9
BMAD7	E103	9
BMAD7	E104	9
BMAD7	E105	9
BMAD7	E106	9
BMAD7	E107	9
BMAD7	E108	9
BMAD7	E73	13
BMAD7	E74	13
BMAD7	E75	13
BMAD7	E76	13
BMAD7	E77	13
BMAD7	E78	13
BMAD7	E79	13
BMAD7	E80	13
BMAD7	E81	13
BMAD7	E82	13
BMAD7	E83	13
BMAD7	E84	13
BMAD7	E85	13
BMAD7	E86	13
BMAD7	E87	13
BMAD7	E88	13
BMAD7	E89	13
BMAD7	E90	13
BMAD7	E91	9
BMAD7	E92	9
BMAD7	E93	9
BMAD7	E94	9
BMAD7	E95	9
BMAD7	E96	9
BMAD7	E97	9
BMAD7	E98	9
BMAD7	E99	9
BMAD7	R81	2
BMAD8	E100	1
BMAD8	E101	1
BMAD8	E102	1
BMAD8	E103	1
BMAD8	E104	1
BMAD8	E105	1

SIGNAL	PART	PIN
BMAD8	E106	1
BMAD8	E107	1
BMAD8	E108	1
BMAD8	E73	1
BMAD8	E74	1
BMAD8	E75	1
BMAD8	E76	1
BMAD8	E77	1
BMAD8	E78	1
BMAD8	E79	1
BMAD8	E80	1
BMAD8	E81	1
BMAD8	E82	1
BMAD8	E83	1
BMAD8	E84	1
BMAD8	E85	1
BMAD8	E86	1
BMAD8	E87	1
BMAD8	E88	1
BMAD8	E89	1
BMAD8	E90	1
BMAD8	E91	1
BMAD8	E92	1
BMAD8	E93	1
BMAD8	E94	1
BMAD8	E95	1
BMAD8	E96	1
BMAD8	E97	1
BMAD8	E98	1
BMAD8	E99	1
BMAD8	R8	2
BMCAS0	CE1	1
BMCAS0	CE2	1
BMCAS0	E146	17
BMCAS0	E146	2
BMCAS1	CH1	1
BMCAS1	CH2	1
BMCAS1	E146	15
BMCAS1	E146	4
BMCAS2	DP1	1
BMCAS2	DP2	1
BMCAS2	E146	13
BMCAS2	E146	6
BMCAS3	DR1	1
BMCAS3	DR2	1
BMCAS3	E146	11
BMCAS3	E146	8
BRASAL4	E55	4
BRASAL4	E56	4
BRASAL4	E57	4
BRASAL4	E58	4
BRASAL4	E59	4
BRASAL4	E60	4
BRASAL4	E61	4
BRASAL4	E62	4
BRASAL4	E63	4
BRASAL4	E64	4
BRASAL4	E65	4
BRASAL4	E66	4

SIGNAL	PART	PIN
BRASAL4	E67	4
BRASAL4	E68	4
BRASAL4	E69	4
BRASAL4	E70	4
BRASAL4	E71	4
BRASAL4	E72	4
BRASAL4	R67	2
BRASAL5	E37	4
BRASAL5	E38	4
BRASAL5	E39	4
BRASAL5	E40	4
BRASAL5	E41	4
BRASAL5	E42	4
BRASAL5	E43	4
BRASAL5	E44	4
BRASAL5	E45	4
BRASAL5	E46	4
BRASAL5	E47	4
BRASAL5	E48	4
BRASAL5	E49	4
BRASAL5	E50	4
BRASAL5	E51	4
BRASAL5	E52	4
BRASAL5	E53	4
BRASAL5	E54	4
BRASAL5	R70	2
BRASAL6	E19	4
BRASAL6	E20	4
BRASAL6	E21	4
BRASAL6	E22	4
BRASAL6	E23	4
BRASAL6	E24	4
BRASAL6	E25	4
BRASAL6	E26	4
BRASAL6	E27	4
BRASAL6	E28	4
BRASAL6	E29	4
BRASAL6	E30	4
BRASAL6	E31	4
BRASAL6	E32	4
BRASAL6	E33	4
BRASAL6	E34	4
BRASAL6	E35	4
BRASAL6	E36	4
BRASAL6	R34	2
BRASAL7	E1	4
BRASAL7	E10	4
BRASAL7	E11	4
BRASAL7	E12	4
BRASAL7	E13	4
BRASAL7	E14	4
BRASAL7	E15	4
BRASAL7	E16	4
BRASAL7	E17	4
BRASAL7	E18	4
BRASAL7	E2	4
BRASAL7	E3	4
BRASAL7	E4	4
BRASAL7	E5	4

SIGNAL	PART	PIN
BRASAL7	E6	4
BRASAL7	E7	4
BRASAL7	E8	4
BRASAL7	E9	4
BRASAL7	R1	2
BRASBL4	E122	4
BRASBL4	E123	4
BRASBL4	E124	4
BRASBL4	E125	4
BRASBL4	E126	4
BRASBL4	E127	4
BRASBL4	E128	4
BRASBL4	E129	4
BRASBL4	E130	4
BRASBL4	E148	4
BRASBL4	E149	4
BRASBL4	E150	4
BRASBL4	E151	4
BRASBL4	E152	4
BRASBL4	E153	4
BRASBL4	E154	4
BRASBL4	E155	4
BRASBL4	E158	4
BRASBL4	R86	2
BRASBL5	E109	4
BRASBL5	E110	4
BRASBL5	E111	4
BRASBL5	E112	4
BRASBL5	E113	4
BRASBL5	E114	4
BRASBL5	E115	4
BRASBL5	E116	4
BRASBL5	E117	4
BRASBL5	E135	4
BRASBL5	E136	4
BRASBL5	E137	4
BRASBL5	E138	4
BRASBL5	E139	4
BRASBL5	E140	4
BRASBL5	E141	4
BRASBL5	E142	4
BRASBL5	E143	4
BRASBL5	R80	2
BRASBL6	E100	4
BRASBL6	E101	4
BRASBL6	E102	4
BRASBL6	E103	4
BRASBL6	E104	4
BRASBL6	E105	4
BRASBL6	E106	4
BRASBL6	E107	4
BRASBL6	E108	4
BRASBL6	E91	4
BRASBL6	E92	4
BRASBL6	E93	4
BRASBL6	E94	4
BRASBL6	E95	4
BRASBL6	E96	4
BRASBL6	E97	4

SIGNAL	PART	PIN
BRASBL6	E98	4
BRASBL6	E99	4
BRASBL6	R87	2
BRASBL7	E73	4
BRASBL7	E74	4
BRASBL7	E75	4
BRASBL7	E76	4
BRASBL7	E77	4
BRASBL7	E78	4
BRASBL7	E79	4
BRASBL7	E80	4
BRASBL7	E81	4
BRASBL7	E82	4
BRASBL7	E83	4
BRASBL7	E84	4
BRASBL7	E85	4
BRASBL7	E86	4
BRASBL7	E87	4
BRASBL7	E88	4
BRASBL7	E89	4
BRASBL7	E90	4
BRASBL7	R93	2
BUFENL	E120	1
BUFENL	E120	13
BUFENL	E121	1
BUFENL	E121	13
BUFENL	E133	1
BUFENL	E133	13
BUFENL	E134	1
BUFENL	E134	13
BUFENL	E144	7
BUFENL0	E144	3
BUFENL0	J1	28
BUFENL1	E144	6
BUFENL1	J1	23
BWTAL1	E37	3
BWTAL1	E38	3
BWTAL1	E39	3
BWTAL1	E40	3
BWTAL1	E41	3
BWTAL1	E42	3
BWTAL1	E43	3
BWTAL1	E44	3
BWTAL1	E45	3
BWTAL1	E46	3
BWTAL1	E47	3
BWTAL1	E48	3
BWTAL1	E49	3
BWTAL1	E50	3
BWTAL1	E51	3
BWTAL1	E52	3
BWTAL1	E53	3
BWTAL1	E54	3
BWTAL1	E55	3
BWTAL1	E56	3
BWTAL1	E57	3
BWTAL1	E58	3
BWTAL1	E59	3
BWTAL1	E60	3

REVISION HISTORY		
REV	ECO NUMBER	DATE

DRAWING

LAST_MODIFIED=Thu Mar 14 16:25:04 1985

digital

DRN: Malcolm de Mare	DATE 29-OCT-84	ENG: Malcolm de Mare	DATE 28-SEP-84
CHK'D: Dave Drozd	DATE 29-OCT-84	SHEET 8 OF 12	
		NEXT HIGHER ASSEMBLY: B-DD-M7608-0-0	

TITLE: MS630-B

SIZE	CODE	NUMBER	REV
K	CS	M7608-0-1	B

SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN
BWTAL1	E61	3	BWTCL1	E18	3	BWTDL1	E95	3	GND	C125	2	GND	C33	2	GND	C87	2
BWTAL1	E62	3	BWTCL1	E19	3	BWTDL1	E96	3	GND	C126	2	GND	C34	2	GND	C88	2
BWTAL1	E63	3	BWTCL1	E2	3	BWTDL1	E97	3	GND	C127	2	GND	C35	2	GND	C89	2
BWTAL1	E64	3	BWTCL1	E20	3	BWTDL1	E98	3	GND	C128	2	GND	C36	2	GND	C9	2
BWTAL1	E65	3	BWTCL1	E21	3	BWTDL1	E99	3	GND	C129	2	GND	C37	2	GND	C90	2
BWTAL1	E66	3	BWTCL1	E22	3	BWTDL1	R5	2	GND	C13	2	GND	C38	2	GND	C91	2
BWTAL1	E67	3	BWTCL1	E23	3	CAL0	E146	3	GND	C130	2	GND	C39	2	GND	C92	2
BWTAL1	E68	3	BWTCL1	E24	3	CAL0	R66	1	GND	C131	2	GND	C4	2	GND	C93	2
BWTAL1	E69	3	BWTCL1	E25	3	CAL1	E146	5	GND	C132	2	GND	C40	2	GND	C94	2
BWTAL1	E70	3	BWTCL1	E26	3	CAL1	R64	1	GND	C133	2	GND	C41	2	GND	C95	2
BWTAL1	E71	3	BWTCL1	E27	3	CAL2	E146	7	GND	C134	2	GND	C42	2	GND	C96	2
BWTAL1	E72	3	BWTCL1	E28	3	CAL2	R49	1	GND	C135	2	GND	C43	2	GND	C97	2
BWTAL1	R20	2	BWTCL1	E29	3	CAL3	E146	9	GND	C136	2	GND	C44	2	GND	C98	2
BWTBL1	E109	3	BWTCL1	E3	3	CAL3	R74	1	GND	C137	2	GND	C45	2	GND	C99	2
BWTBL1	E110	3	BWTCL1	E30	3	CBL0	E146	18	GND	C138	2	GND	C46	2	GND	CC2	1
BWTBL1	E111	3	BWTCL1	E31	3	CBL0	R69	1	GND	C139	2	GND	C47	2	GND	CM1	1
BWTBL1	E112	3	BWTCL1	E32	3	CBL1	E146	16	GND	C14	2	GND	C48	2	GND	CT1	1
BWTBL1	E113	3	BWTCL1	E33	3	CBL1	R31	1	GND	C140	2	GND	C49	2	GND	DA1	1
BWTBL1	E114	3	BWTCL1	E34	3	CBL2	E146	14	GND	C141	2	GND	C5	2	GND	DC2	1
BWTBL1	E115	3	BWTCL1	E35	3	CBL2	R63	1	GND	C142	2	GND	C50	2	GND	DT1	1
BWTBL1	E116	3	BWTCL1	E36	3	CBL3	E146	12	GND	C143	2	GND	C51	2	GND	E1	14
BWTBL1	E117	3	BWTCL1	E4	3	CBL3	R77	1	GND	C144	2	GND	C52	2	GND	E10	14
BWTBL1	E122	3	BWTCL1	E5	3	GND	AC2	1	GND	C145	2	GND	C53	2	GND	E100	14
BWTBL1	E123	3	BWTCL1	E6	3	GND	AJ1	1	GND	C146	2	GND	C54	2	GND	E101	14
BWTBL1	E124	3	BWTCL1	E7	3	GND	AM1	1	GND	C147	2	GND	C55	2	GND	E102	14
BWTBL1	E125	3	BWTCL1	E8	3	GND	AT1	1	GND	C148	2	GND	C56	2	GND	E103	14
BWTBL1	E126	3	BWTCL1	E9	3	GND	BC2	1	GND	C149	2	GND	C57	2	GND	E104	14
BWTBL1	E127	3	BWTCL1	R11	2	GND	BJ1	1	GND	C15	2	GND	C58	2	GND	E105	14
BWTBL1	E128	3	BWTDL1	E100	3	GND	BM1	1	GND	C150	2	GND	C59	2	GND	E106	14
BWTBL1	E129	3	BWTDL1	E101	3	GND	BT1	1	GND	C151	2	GND	C6	2	GND	E107	14
BWTBL1	E130	3	BWTDL1	E102	3	GND	C1	2	GND	C152	2	GND	C60	2	GND	E108	14
BWTBL1	E135	3	BWTDL1	E103	3	GND	C10	2	GND	C153	2	GND	C61	2	GND	E109	14
BWTBL1	E136	3	BWTDL1	E104	3	GND	C100	2	GND	C154	2	GND	C62	2	GND	E11	14
BWTBL1	E137	3	BWTDL1	E105	3	GND	C101	2	GND	C155	2	GND	C63	2	GND	E110	14
BWTBL1	E138	3	BWTDL1	E106	3	GND	C102	2	GND	C156	2	GND	C64	2	GND	E111	14
BWTBL1	E139	3	BWTDL1	E107	3	GND	C103	2	GND	C157	2	GND	C65	2	GND	E112	14
BWTBL1	E140	3	BWTDL1	E108	3	GND	C104	2	GND	C158	2	GND	C66	2	GND	E113	14
BWTBL1	E141	3	BWTDL1	E73	3	GND	C105	2	GND	C16	2	GND	C67	2	GND	E114	14
BWTBL1	E142	3	BWTDL1	E74	3	GND	C106	2	GND	C160	2	GND	C68	2	GND	E115	14
BWTBL1	E143	3	BWTDL1	E75	3	GND	C107	2	GND	C161	2	GND	C69	2	GND	E116	14
BWTBL1	E148	3	BWTDL1	E76	3	GND	C108	2	GND	C162	2	GND	C7	2	GND	E117	14
BWTBL1	E149	3	BWTDL1	E77	3	GND	C109	2	GND	C17	2	GND	C70	2	GND	E118	10
BWTBL1	E150	3	BWTDL1	E78	3	GND	C11	2	GND	C18	2	GND	C71	2	GND	E119	10
BWTBL1	E151	3	BWTDL1	E79	3	GND	C110	2	GND	C19	2	GND	C72	2	GND	E12	14
BWTBL1	E152	3	BWTDL1	E80	3	GND	C111	2	GND	C2	2	GND	C73	2	GND	E120	12
BWTBL1	E153	3	BWTDL1	E81	3	GND	C112	2	GND	C20	2	GND	C74	2	GND	E121	12
BWTBL1	E154	3	BWTDL1	E82	3	GND	C113	2	GND	C21	2	GND	C75	2	GND	E122	14
BWTBL1	E155	3	BWTDL1	E83	3	GND	C114	2	GND	C22	2	GND	C76	2	GND	E123	14
BWTBL1	E156	3	BWTDL1	E84	3	GND	C115	2	GND	C23	2	GND	C77	2	GND	E124	14
BWTBL1	R40	2	BWTDL1	E85	3	GND	C116	2	GND	C24	2	GND	C78	2	GND	E125	14
BWTCL1	E1	3	BWTDL1	E86	3	GND	C117	2	GND	C25	2	GND	C79	2	GND	E126	14
BWTCL1	E10	3	BWTDL1	E87	3	GND	C118	2	GND	C26	2	GND	C8	2	GND	E127	14
BWTCL1	E11	3	BWTDL1	E88	3	GND	C119	2	GND	C27	2	GND	C80	2	GND	E128	14
BWTCL1	E12	3	BWTDL1	E89	3	GND	C12	2	GND	C28	2	GND	C81	2	GND	E129	14
BWTCL1	E13	3	BWTDL1	E90	3	GND	C120	2	GND	C29	2	GND	C82	2	GND	E13	14
BWTCL1	E14	3	BWTDL1	E91	3	GND	C121	2	GND	C3	2	GND	C83	2	GND	E130	14
BWTCL1	E15	3	BWTDL1	E92	3	GND	C122	2	GND	C30	2	GND	C84	2	GND	E131	10
BWTCL1	E16	3	BWTDL1	E93	3	GND	C123	2	GND	C31	2	GND	C85	2	GND	E132	10
BWTCL1	E17	3	BWTDL1	E94	3	GND	C124	2	GND	C32	2	GND	C86	2	GND	E133	12

REVISION HISTORY		
REV	ECO NUMBER	DATE

DRAWING

LAST_MODIFIED=Thu Mar 14 18:25:44 1985

digital

DRN: Malcolm de Mare	DATE 23-OCT-84	ENG: Malcolm de Mare	DATE 28-SEP-84
CHK'D: Dave Drozd	DATE 23-OCT-84	SHEET 9 OF 12	
NEXT HIGHER ASSEMBLY: B-DD-M7608-0-0			

TITLE: MS630-B

SIZE	CODE	NUMBER	REV
K	CS	M7608-0-1	B

SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN
GND	E134	12	GND	E40	14	GND	E94	14	LRD22	E120	17	MAAL4	DE2	1	MD21	E120	7
GND	E135	14	GND	E41	14	GND	E95	14	LRD22	R15	2	MAAL4	E118	13	MD21	J1	37
GND	E136	14	GND	E42	14	GND	E96	14	LRD23	E120	16	MAAL4	E119	8	MD22	E120	8
GND	E137	14	GND	E43	14	GND	E97	14	LRD23	R12	2	MAAL4	E131	2	MD22	J1	40
GND	E138	14	GND	E44	14	GND	E98	14	LRD24	E121	23	MAAL4	E132	6	MD23	E120	9
GND	E139	14	GND	E45	14	GND	E99	14	LRD24	R33	2	MAAL5	DD1	1	MD23	J1	39
GND	E14	14	GND	E46	14	GND	J1	1	LRD25	E121	22	MAAL5	DD2	1	MD24	E121	2
GND	E140	14	GND	E47	14	GND	J1	13	LRD25	R32	2	MAAL5	E118	17	MD24	J1	42
GND	E141	14	GND	E48	14	GND	J1	20	LRD26	E121	21	MAAL5	E132	4	MD25	E121	3
GND	E142	14	GND	E49	14	GND	J1	25	LRD26	R30	2	MAAL5	E147	15	MD25	J1	41
GND	E143	14	GND	E5	14	GND	J1	26	LRD27	E121	20	MAAL5	E147	6	MD26	E121	4
GND	E144	1	GND	E50	14	GND	J1	30	LRD27	R27	2	MAAL6	DH1	1	MD26	J1	44
GND	E144	10	GND	E51	14	GND	J1	31	LRD28	E121	19	MAAL6	DH2	1	MD27	E121	5
GND	E144	11	GND	E52	14	GND	J1	38	LRD28	R24	2	MAAL6	E118	4	MD27	J1	43
GND	E144	12	GND	E53	14	GND	J1	45	LRD29	E121	18	MAAL6	E119	6	MD28	E121	6
GND	E144	13	GND	E54	14	GND	J1	50	LRD29	R3	2	MAAL6	E131	8	MD28	J1	46
GND	E144	4	GND	E55	14	GND	J1	6	LRD3	E133	20	MAAL6	E132	11	MD29	E121	7
GND	E144	5	GND	E56	14	GND	R26	1	LRD3	R62	2	MAAL7	DB1	1	MD29	J1	47
GND	E144	8	GND	E57	14	GND	R29	1	LRD30	E121	17	MAAL7	DB2	1	MD3	E133	5
GND	E145	10	GND	E58	14	GND	R79	1	LRD30	R21	2	MAAL7	E119	15	MD3	J1	5
GND	E146	10	GND	E59	14	GND	R95	1	LRD31	E121	16	MAAL7	E131	15	MD30	E121	8
GND	E147	10	GND	E6	14	LPD0	E133	15	LRD31	R6	2	MAAL7	E147	11	MD30	J1	48
GND	E148	14	GND	E60	14	LPD0	R94	2	LRD4	E133	19	MAAL7	E147	2	MD31	E121	9
GND	E149	14	GND	E61	14	LPD1	E134	15	LRD4	R78	2	MAAL8	CS1	1	MD31	J1	49
GND	E15	14	GND	E62	14	LPD1	R71	2	LRD5	E133	18	MAAL8	CS2	1	MD4	E133	6
GND	E150	14	GND	E63	14	LPD2	E120	15	LRD5	R75	2	MAAL8	E118	8	MD4	J1	8
GND	E151	14	GND	E64	14	LPD2	R50	2	LRD6	E133	17	MAAL8	E119	13	MD5	E133	7
GND	E152	14	GND	E65	14	LPD3	E121	15	LRD6	R73	2	MAAL8	E131	13	MD5	J1	7
GND	E153	14	GND	E66	14	LPD3	R9	2	LRD7	E133	16	MAAL8	E132	15	MD6	E133	8
GND	E154	14	GND	E67	14	LRD0	E133	23	LRD7	R72	2	MAAL9	CB1	1	MD6	J1	10
GND	E155	14	GND	E68	14	LRD0	R91	2	LRD8	E134	23	MAAL9	CB2	1	MD7	E133	9
GND	E156	14	GND	E69	14	LRD1	E133	22	LRD8	R68	2	MD0	E133	2	MD7	J1	9
GND	E16	14	GND	E7	14	LRD1	R88	2	LRD9	E134	22	MD0	J1	2	MD8	E134	2
GND	E17	14	GND	E70	14	LRD10	E134	21	LRD9	R65	2	MD1	E133	3	MD8	J1	12
GND	E18	14	GND	E71	14	LRD10	R62	2	MAAL0	CR1	1	MD1	J1	3	MD9	E134	3
GND	E19	14	GND	E72	14	LRD11	E134	20	MAAL0	CR2	1	MD10	E134	4	MD9	J1	11
GND	E2	14	GND	E73	14	LRD11	R61	2	MAAL0	E118	15	MD10	J1	14	MSIDL0	CJ1	1
GND	E20	14	GND	E74	14	LRD12	E134	19	MAAL0	E119	2	MD11	E134	5	MSIDL0	E145	1
GND	E21	14	GND	E75	14	LRD12	R59	2	MAAL0	E131	4	MD11	J1	15	MSIDL0	E146	1
GND	E22	14	GND	E76	14	LRD13	E134	18	MAAL0	E132	2	MD12	E134	6	MSIDL0	E147	19
GND	E23	14	GND	E77	14	LRD13	R58	2	MAAL1	CN1	1	MD12	J1	16	MSIDL0	R95	2
GND	E24	14	GND	E78	14	LRD14	E134	17	MAAL1	CN2	1	MD13	E134	7	MSIDL2	CJ2	1
GND	E25	14	GND	E79	14	LRD14	R56	2	MAAL1	E119	17	MD13	J1	17	MSIDL2	DJ1	1
GND	E26	14	GND	E8	14	LRD15	E134	16	MAAL1	E131	17	MD14	E134	8	MSIDL3	CM2	1
GND	E27	14	GND	E80	14	LRD15	R53	2	MAAL1	E147	13	MD14	J1	18	MSIDL3	DM1	1
GND	E28	14	GND	E81	14	LRD16	E120	23	MAAL1	E147	8	MD15	E134	9	MSIDL4	CT2	1
GND	E29	14	GND	E82	14	LRD16	R47	2	MAAL2	CP1	1	MD15	J1	29	MSIDL4	DT2	1
GND	E3	14	GND	E83	14	LRD17	E120	22	MAAL2	CP2	1	MD16	E120	2	MSWT1	CK1	1
GND	E30	14	GND	E84	14	LRD17	R44	2	MAAL2	E118	11	MD16	J1	22	MSWT1	CK2	1
GND	E31	14	GND	E85	14	LRD18	E120	21	MAAL2	E132	8	MD17	E120	3	MSWT1	E118	6
GND	E32	14	GND	E86	14	LRD18	R41	2	MAAL2	E147	17	MD17	J1	33	MSWT1	E119	11
GND	E33	14	GND	E87	14	LRD19	E120	20	MAAL2	E147	4	MD18	E120	4	MSWT1	E131	11
GND	E34	14	GND	E88	14	LRD19	R38	2	MAAL3	DF1	1	MD18	J1	34	MSWT1	E132	13
GND	E35	14	GND	E89	14	LRD2	E133	21	MAAL3	DF2	1	MD19	E120	5	MSWT2	DS1	1
GND	E36	14	GND	E9	14	LRD2	R85	2	MAAL3	E118	2	MD19	J1	35	MSWT2	DS2	1
GND	E37	14	GND	E90	14	LRD20	E120	19	MAAL3	E119	4	MD2	E133	4	PEL0	E133	10
GND	E38	14	GND	E91	14	LRD20	R35	2	MAAL3	E131	6	MD2	J1	4	PEL0	J1	19
GND	E39	14	GND	E92	14	LRD21	E120	18	MAAL3	E132	17	MD20	E120	6	PEL1	E134	10
GND	E4	14	GND	E93	14	LRD21	R18	2	MAAL4	DE1	1	MD20	J1	36	PEL1	J1	24

REVISION HISTORY		
REV	ECO NUMBER	DATE

DRAWING

LAST_MODIFIED=Thu Mar 14 15:26:18 1985

digital

DRN: Malcolm de Mare	DATE 23-OCT-84	ENG: Malcolm de Mare	DATE 20-SEP-84
CHK'D: Dave Drozd	DATE 23-OCT-84	SHEET 10 OF 12	
		NEXT HIGHER ASSEMBLY: B-DD-M7608-0-0	

TITLE: MS630-B

SIZE	CODE	NUMBER	REV
K	CS	M7608-0-1	B

SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN
PEL2	E120	10	RD10	E15	2	RD16	E98	14	RD22	E123	14	RD28	E85	2	RD34	E130	2
PEL2	J1	32	RD10	E33	14	RD16	E98	2	RD22	E123	2	RD28	R24	1	RD34	E81	14
PEL3	E121	10	RD10	E33	2	RD16	R47	1	RD22	E74	14	RD29	E102	14	RD34	E81	2
PEL3	J1	27	RD10	E51	14	RD17	E115	14	RD22	E74	2	RD29	E102	2	RD34	E99	14
RAL4	E145	9	RD10	E51	2	RD17	E115	2	RD22	E92	14	RD29	E137	14	RD34	E99	2
RAL4	R67	1	RD10	E69	14	RD17	E128	14	RD22	E92	2	RD29	E137	2	RD34	R50	1
RAL5	E145	7	RD10	E69	2	RD17	E128	2	RD22	R15	1	RD29	E150	14	RD35	E108	14
RAL5	R70	1	RD10	R62	1	RD17	E79	14	RD23	E109	14	RD29	E150	2	RD35	E108	2
RAL6	E145	12	RD11	E14	14	RD17	E79	2	RD23	E109	2	RD29	E84	14	RD35	E143	14
RAL6	R34	1	RD11	E14	2	RD17	E97	14	RD23	E122	14	RD29	E84	2	RD35	E143	2
RAL7	E145	14	RD11	E32	14	RD17	E97	2	RD23	E122	2	RD29	R3	1	RD35	E156	14
RAL7	R1	1	RD11	E32	2	RD17	R44	1	RD23	E73	14	RD3	E23	14	RD35	E156	2
RAS0	CL2	1	RD11	E50	14	RD18	E114	14	RD23	E73	2	RD3	E23	2	RD35	E90	14
RAS0	CU1	1	RD11	E50	2	RD18	E114	2	RD23	E91	14	RD3	E41	14	RD35	E90	2
RAS1	CD2	1	RD11	E68	14	RD18	E127	14	RD23	E91	2	RD3	E41	2	RD35	R9	1
RAS1	CF1	1	RD11	E68	2	RD18	E127	2	RD23	R12	1	RD3	E5	14	RD4	E22	14
RAS2	DN1	1	RD11	R61	1	RD18	E78	14	RD24	E107	14	RD3	E5	2	RD4	E22	2
RAS2	DU2	1	RD12	E13	14	RD18	E78	2	RD24	E107	2	RD3	E59	14	RD4	E4	14
RAS3	DK1	1	RD12	E13	2	RD18	E96	14	RD24	E142	14	RD3	E59	2	RD4	E4	2
RAS3	DL2	1	RD12	F31	14	RD18	E96	2	RD24	E142	2	RD3	R82	1	RD4	E40	14
RAS4	CL1	1	RD12	J31	2	RD18	R41	1	RD24	E155	14	RD30	E101	14	RD4	E40	2
RAS4	E145	11	RD12	E49	14	RD19	E113	14	RD24	E155	2	RD30	E101	2	RD4	E58	14
RAS4	E145	15	RD12	E49	2	RD19	E113	2	RD24	E89	14	RD30	E136	14	RD4	E58	2
RAS5	CD1	1	RD12	E67	14	RD19	E126	14	RD24	E89	2	RD30	E136	2	RD4	R78	1
RAS5	E145	13	RD12	E67	2	RD19	E126	2	RD24	R33	1	RD30	E149	14	RD5	E21	14
RAS5	E145	17	RD12	R59	1	RD19	E77	14	RD25	E106	14	RD30	E149	2	RD5	E21	2
RAS6	DU1	1	RD13	E12	14	RD19	E77	2	RD25	E106	2	RD30	E83	14	RD5	E3	14
RAS6	E145	4	RD13	E12	2	RD19	E95	14	RD25	E141	14	RD30	E83	2	RD5	E3	2
RAS6	E145	8	RD13	E30	14	RD19	E95	2	RD25	E141	2	RD30	R21	1	RD5	E39	14
RAS7	DL1	1	RD13	E30	2	RD19	R38	1	RD25	E154	14	RD31	E100	14	RD5	E39	2
RAS7	E145	2	RD13	E48	14	RD2	E24	14	RD25	E154	2	RD31	E100	2	RD5	E57	14
RAS7	E145	6	RD13	E48	2	RD2	E24	2	RD25	E88	14	RD31	E135	14	RD5	E57	2
RBL4	E145	5	RD13	E66	14	RD2	E42	14	RD25	E88	2	RD31	E135	2	RD5	R75	1
RBL4	R66	1	RD13	E66	2	RD2	E42	2	RD25	R32	1	RD31	E148	14	RD6	E2	14
RBL5	E145	3	RD13	R58	1	RD2	E6	14	RD26	E105	14	RD31	E148	2	RD6	E2	2
RBL5	R80	1	RD14	E11	14	RD2	E8	2	RD26	E105	2	RD31	E82	14	RD6	E20	14
RBL6	E145	16	RD14	E11	2	RD2	E30	14	RD26	E140	14	RD31	E82	2	RD6	E20	2
RBL6	R87	1	RD14	E29	14	RD2	E60	2	RD26	E140	2	RD31	R6	1	RD6	E38	14
RBL7	E145	18	RD14	E29	2	RD2	R85	1	RD26	E153	14	RD32	E27	14	RD6	E38	2
RBL7	R93	1	RD14	E47	14	RD20	E112	14	RD26	E153	2	RD32	E27	2	RD6	E56	14
RD0	E26	14	RD14	E47	2	RD20	E112	2	RD26	E87	14	RD32	E45	14	RD6	E56	2
RD0	E26	2	RD14	E65	14	RD20	E125	14	RD26	E87	2	RD32	E45	2	RD6	R73	1
RD0	E44	14	RD14	E65	2	RD20	E125	2	RD26	R30	1	RD32	E63	14	RD7	E1	14
RD0	E44	2	RD14	R56	1	RD20	E76	14	RD27	E104	14	RD32	E63	2	RD7	E1	2
RD0	E62	14	RD15	E10	14	RD20	E76	2	RD27	E104	2	RD32	E9	14	RD7	E19	14
RD0	E62	2	RD15	E10	2	RD20	E94	14	RD27	E139	14	RD32	E9	2	RD7	E19	2
RD0	E8	14	RD15	E28	14	RD20	E94	2	RD27	E139	2	RD32	R94	1	RD7	E37	14
RD0	E8	2	RD15	E28	2	RD20	R35	1	RD27	E152	14	RD33	E18	14	RD7	E37	2
RD0	R91	1	RD15	E46	14	RD21	E111	14	RD27	E152	2	RD33	E18	2	RD7	E55	14
RD1	E25	14	RD15	E46	2	RD21	E111	2	RD27	E86	14	RD33	E36	14	RD7	E55	2
RD1	E25	2	RD15	E64	14	RD21	E124	14	RD27	E86	2	RD33	E36	2	RD7	R72	1
RD1	E43	14	RD15	E64	2	RD21	E124	2	RD27	R27	1	RD33	E54	14	RD8	E17	14
RD1	E43	2	RD15	R53	1	RD21	E75	14	RD28	E103	14	RD33	E54	2	RD8	E17	2
RD1	E61	14	RD16	E116	14	RD21	E75	2	RD28	E103	2	RD33	E72	14	RD8	E35	14
RD1	E61	2	RD16	E116	2	RD21	E93	14	RD28	E138	14	RD33	E72	2	RD8	E35	2
RD1	E7	14	RD16	E129	14	RD21	E93	2	RD28	E138	2	RD33	R71	1	RD8	E53	14
RD1	E7	2	RD16	E129	2	RD21	R18	1	RD28	E151	14	RD34	E117	14	RD8	E53	2
RD1	R88	1	RD16	E80	14	RD22	E110	14	RD28	E151	2	RD34	E117	2	RD8	E71	14
RD10	E15	14	RD16	E80	2	RD22	E110	2	RD28	E85	14	RD34	E130	14	RD8	E71	2

REVISION HISTORY

REV	ECO NUMBER	DATE

DRAWING

LAST_MODIFIED=Thu Mar 14 16:26:53 1985

digital

DRN: Malcolm de Mare	DATE 23-OCT-84	ENG: Malcolm de Mare	DATE 20-SEP-84
CHK'D: Dave Drozd	DATE 23-OCT-84	SHEET 11 OF 12	
		NEXT HIGHER ASSEMBLY: B-DD-M7608-0-0	

TITLE: M5630-B

SIZE	CODE	NUMBER	REV
K	CS	M7608-0-1	B

SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN	SIGNAL	PART	PIN
RD8	R68	1	VCC	C120	1	VCC	C29	1	VCC	C82	1	VCC	E133	24	VCC	E46	8
RD9	E16	14	VCC	C121	1	VCC	C3	1	VCC	C83	1	VCC	E134	24	VCC	E47	8
RD9	E16	2	VCC	C122	1	VCC	C30	1	VCC	C84	1	VCC	E135	8	VCC	E48	8
RD9	E34	14	VCC	C123	1	VCC	C31	1	VCC	C85	1	VCC	E136	8	VCC	E49	8
RD9	E34	2	VCC	C124	1	VCC	C32	1	VCC	C86	1	VCC	E137	8	VCC	E5	8
RD9	E52	14	VCC	C125	1	VCC	C33	1	VCC	C87	1	VCC	E138	8	VCC	E50	8
RD9	E52	2	VCC	C126	1	VCC	C34	1	VCC	C88	1	VCC	E139	8	VCC	E51	8
RD9	E70	14	VCC	C127	1	VCC	C35	1	VCC	C89	1	VCC	E14	8	VCC	E52	8
RD9	E70	2	VCC	C128	1	VCC	C36	1	VCC	C9	1	VCC	E140	8	VCC	E53	8
RD9	R65	1	VCC	C129	1	VCC	C37	1	VCC	C90	1	VCC	E141	8	VCC	E54	8
SBUFIL	DC1	1	VCC	C13	1	VCC	C38	1	VCC	C91	1	VCC	E142	8	VCC	E55	8
SBUFIL	E144	14	VCC	C130	1	VCC	C39	1	VCC	C92	1	VCC	E143	8	VCC	E56	8
SBUFIL	E144	2	VCC	C131	1	VCC	C4	1	VCC	C93	1	VCC	E144	16	VCC	E57	8
SBUFIL	R97	2	VCC	C132	1	VCC	C40	1	VCC	C94	1	VCC	E145	20	VCC	E58	8
SGND1L	E120	11	VCC	C133	1	VCC	C41	1	VCC	C95	1	VCC	E146	20	VCC	E59	8
SGND1L	E121	11	VCC	C134	1	VCC	C42	1	VCC	C96	1	VCC	E147	20	VCC	E6	8
SGND1L	E133	11	VCC	C135	1	VCC	C43	1	VCC	C97	1	VCC	E148	8	VCC	E60	8
SGND1L	E134	11	VCC	C136	1	VCC	C44	1	VCC	C98	1	VCC	E149	8	VCC	E61	8
SGND1L	R79	2	VCC	C137	1	VCC	C45	1	VCC	C99	1	VCC	E15	8	VCC	E62	8
SGND2L	E119	19	VCC	C138	1	VCC	C46	1	VCC	CA2	1	VCC	E150	8	VCC	E63	8
SGND2L	E131	19	VCC	C139	1	VCC	C47	1	VCC	DA2	1	VCC	E151	8	VCC	E64	8
SGND2L	E132	19	VCC	C14	1	VCC	C48	1	VCC	E1	8	VCC	E152	8	VCC	E65	8
SGND2L	E145	19	VCC	C140	1	VCC	C49	1	VCC	E10	8	VCC	E153	8	VCC	E66	8
SGND2	E146	19	VCC	C141	1	VCC	C5	1	VCC	E100	8	VCC	E154	8	VCC	E67	8
SGND2L	E147	1	VCC	C142	1	VCC	C50	1	VCC	E101	8	VCC	E155	8	VCC	E68	8
SGND2L	R26	2	VCC	C143	1	VCC	C51	1	VCC	E102	8	VCC	E156	8	VCC	E69	8
SGND3L	E118	1	VCC	C144	1	VCC	C52	1	VCC	E103	8	VCC	E16	8	VCC	E7	8
SGND3L	E118	19	VCC	C145	1	VCC	C53	1	VCC	E104	8	VCC	E17	8	VCC	E70	8
SGND3L	E119	1	VCC	C146	1	VCC	C54	1	VCC	E105	8	VCC	E18	8	VCC	E71	8
SGND3L	E131	1	VCC	C147	1	VCC	C55	1	VCC	E106	8	VCC	E19	8	VCC	E72	8
SGND3L	E132	1	VCC	C148	1	VCC	C56	1	VCC	E107	8	VCC	E2	8	VCC	E73	8
SGND3L	R29	2	VCC	C149	1	VCC	C57	1	VCC	E108	8	VCC	E20	8	VCC	E74	8
VCC	AA2	1	VCC	C15	1	VCC	C58	1	VCC	E109	8	VCC	E21	8	VCC	E75	8
VCC	BA2	1	VCC	C150	1	VCC	C59	1	VCC	E11	8	VCC	E22	8	VCC	E76	8
VCC	BV1	1	VCC	C151	1	VCC	C6	1	VCC	E110	8	VCC	E23	8	VCC	E77	8
VCC	C1	1	VCC	C152	1	VCC	C60	1	VCC	E111	8	VCC	E24	8	VCC	E78	8
VCC	C10	1	VCC	C153	1	VCC	C61	1	VCC	F112	8	VCC	E25	8	VCC	E79	8
VCC	C100	1	VCC	C154	1	VCC	C62	1	VCC	E113	8	VCC	E26	8	VCC	E8	8
VCC	C101	1	VCC	C155	1	VCC	C63	1	VCC	E114	8	VCC	E27	8	VCC	E80	8
VCC	C102	1	VCC	C156	1	VCC	C64	1	VCC	E115	8	VCC	E28	8	VCC	E81	8
VCC	C103	1	VCC	C157	1	VCC	C65	1	VCC	E116	8	VCC	E29	8	VCC	E82	8
VCC	C104	1	VCC	C158	1	VCC	C66	1	VCC	E117	8	VCC	E3	8	VCC	E83	8
VCC	C105	1	VCC	C16	1	VCC	C67	1	VCC	E118	20	VCC	E30	8	VCC	E84	8
VCC	C106	1	VCC	C160	1	VCC	C68	1	VCC	E119	20	VCC	E31	8	VCC	E85	8
VCC	C107	1	VCC	C161	1	VCC	C69	1	VCC	E12	8	VCC	E32	8	VCC	E86	8
VCC	C108	1	VCC	C162	1	VCC	C7	1	VCC	E120	24	VCC	E33	8	VCC	E87	8
VCC	C109	1	VCC	C17	1	VCC	C70	1	VCC	E121	24	VCC	E34	8	VCC	E88	8
VCC	C11	1	VCC	C18	1	VCC	C71	1	VCC	E122	8	VCC	E35	8	VCC	E89	8
VCC	C110	1	VCC	C19	1	VCC	C72	1	VCC	E123	8	VCC	E36	8	VCC	E9	8
VCC	C111	1	VCC	C2	1	VCC	C73	1	VCC	E124	8	VCC	E37	8	VCC	E90	8
VCC	C112	1	VCC	C20	1	VCC	C74	1	VCC	E125	8	VCC	E38	8	VCC	E91	8
VCC	C113	1	VCC	C21	1	VCC	C75	1	VCC	E126	8	VCC	E39	8	VCC	E92	8
VCC	C114	1	VCC	C22	1	VCC	C76	1	VCC	E127	8	VCC	E4	8	VCC	E93	8
VCC	C115	1	VCC	C23	1	VCC	C77	1	VCC	E128	8	VCC	E40	8	VCC	E94	8
VCC	C116	1	VCC	C24	1	VCC	C78	1	VCC	E129	8	VCC	E41	8	VCC	E95	8
VCC	C117	1	VCC	C25	1	VCC	C79	1	VCC	E13	8	VCC	E42	8	VCC	E96	8
VCC	C118	1	VCC	C26	1	VCC	C8	1	VCC	E130	8	VCC	E43	8	VCC	E97	8
VCC	C119	1	VCC	C27	1	VCC	C80	1	VCC	E131	20	VCC	E44	8	VCC	E98	8
VCC	C12	1	VCC	C28	1	VCC	C81	1	VCC	E132	20	VCC	E45	8	VCC	E99	8
															VCC	R97	1

REVISION HISTORY		
REV	ECO NUMBER	DATE

DRAWING

LAST_MODIFIED=Thu Mar 14 16:28:13 1985

digital

DRN: Malcolm de Mare	DATE 23-OCT-84	ENG: Malcolm de Mare	DATE 20-SEP-84
CHK'D: Dave Drozd	DATE 23-OCT-84	SHEET 12 OF 12	

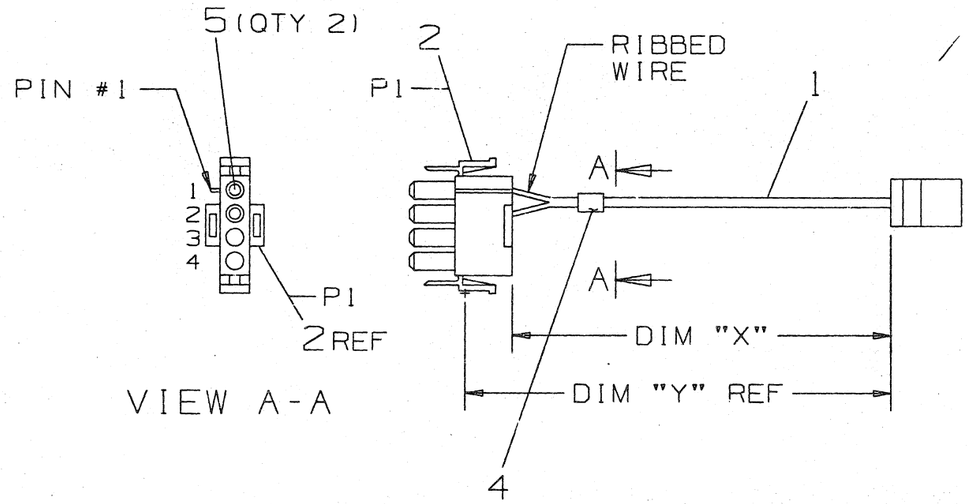
TITLE: MS630-B

NEXT HIGHER ASSEMBLY: B-DD-M7608-0-0

SIZE	CODE	NUMBER	REV
K	CS	M7608-0-1	B

WIRE TABLE

ITEM NO.	DESCRIPTION		FROM		TO		REMARKS
	AWG	COLOR	CONN	WITH	CONN	WITH	
1	18	BLK	——	——	P1-1	1	RIBBED WIRE
	18	BLK	——	——	P1-2	3	



LEGEND

NUMBER	DIM"X"VARIATION	DIM"Y"(PRECUT)REF
7020449-0D	4.25 IN ±.25 IN	4.75 IN ±.25 IN

CAUTION: OFF SHEET PARTS LIST EXISTS
REFER TO K-PL-7020449-0-DBP

REVISIONS			
REV.	CHANGE NO.		CHK
A	INITIAL		
B	7020449-ML001		S AZEVEDO
	16JAN84		R. MILLER

FIRST HIGHER ASS'Y

QUANTITY & VARIATION

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)

INCHES TOLERANCES	ANGLES ±0° 30'	APPLICABLE DIMENSION RANGE (CHECK ONE)	DIMENSION RANGE IN INCHES					
			OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 60.0
.X= ± .1	SURFACE QUALITY	☐		±.02	±.03	±.05	±.10	
.XX= ± .02		☐	±.004	±.008	±.012	±.016	±.024	±.04
.XXX= ± .005	MICROINCHES	☐						

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL
SEE PARTS LIST

FINISH
NONE

DRN	M DUGGAN	DATE 15 DEC 82
CHK'D	D MILLER	DATE 4 FEB 83
DES. ENG.	D MILLER	DATE 4 FEB 83
RESP. ENG.	A DELUCA	DATE 4 FEB 83
MFG. ENG.	M LIVINGSTON	DATE 4 FEB 83
TOP DOC.		

TITLE

digital

CABLE, FAN

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV.
C	1A	7020449-0-DBU	B

SCALE NONE SHEET 1 OF 1

SIZE C | CODE 1A | NUMBER 7020449-0-DBU | REV. B

AUTOMATED BY PRTLST.4Q(50)

P A R T S L I S T

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION OD
					VARIATION REVISION LEVEL:	
1	1		1210283-00		PWR CORD,TERM 2-18 SPT 300	1
2	2		1212167-01		MATE-N-LOK 04SKT(1X04).250CC HSG	1
3	3		1212169-02		*** THIS ITEM IS NOT USED ***	-
4	4		9009255-01		LABEL, POWER SUPPLY, 2-7/8" LG X	1
5	5		1212169-00		MATE-N-LOK 01PIN 20-14AWG .0850D	1

REVISION HISTORY			BASIC PART NO: 7020449			
ENG	ECO NUMBER	REV	SECTION A OF A			
	INITIAL	A	SECTION.VARIATION INDEX	DRN: M. DUGGAN	DATE: 17-DEC-82	D I G I T A L
DM	7020449-ML001	B	[A]OD	CHK'D: D. MILLER	DATE: 4-FEB-83	TITLE PARTS LIST CABLE, FAN
			[B]	DES.ENG: D. MILLER	DATE: 4-FEB-83	DOCUMENT NUMBER: SIZE K, CODE PL, NUMBER 7020449-0-DBP, REV B
			[C]	RESP.ENG.: A. DELUCA	DATE: 4-FEB-83	
			[D]	MFG.ENG.: M. LIVINGSTON	DATE: 4-FEB-83	RELEASE DATE: 22-FEB-84
			[E]	ASSEMBLY NUMBER: C-IA-7020449-0-DBU	TOP DOCUMENT NUMBER:	FILE NAME: Z6198B.PLS
			[F]			EDIT # 10

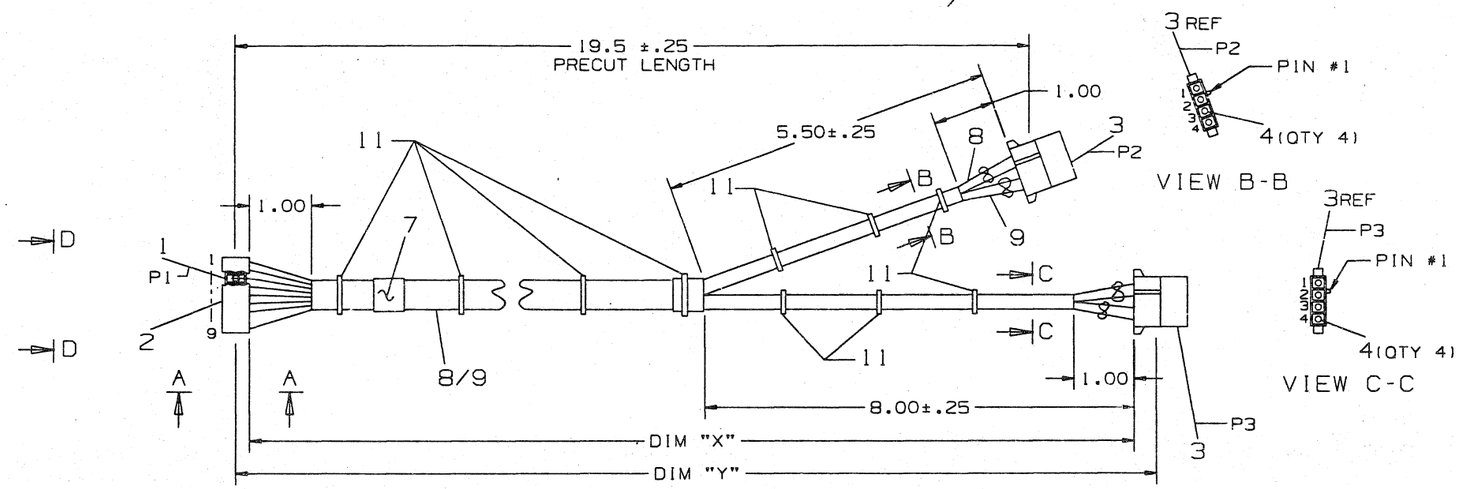
WIRE TABLE

ITEM NO.	DESCRIPTION AWG	COLOR	FROM CONN	FROM WITH	TO CONN	TO WITH	REMARKS
5	18 TWP	ORN	P1-5	——	P2-1	4	
		BLK	P1-7	——	P2-2	4	
	18 TWP	RED	P1-3	——	P2-4	4	
		BLK	P1-1	——	P2-3	4	
	18 TWP	ORN	P1-6	——	P3-1	4	
		BLK	P1-9	——	P3-2	4	
	18 TWP	RED	P1-4	——	P3-4	4	
		BLK	P1-2	——	P3-3	4	

LEGEND

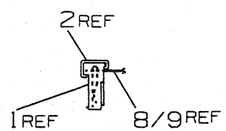
NUMBER	DIM X VARIATION	DIM Y (PRECUT)
7020435-1K	1 FT-9 IN±.5 IN	1 FT-10 IN±.25 IN

NOTES:
1. PLACE TIE WRAPS (ITEM #11) EVERY 3 INCHES ON CABLE.

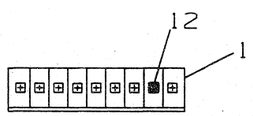


VIEW B-B

VIEW C-C



VIEW A-A



VIEW D-D
SCALE 2/1

CAUTION: OFF SHEET PARTS LIST EXISTS
REFER TO K-PL-7020435-0-DBP

REVISIONS			
O'K	CHANGE NO.	REV.	
	INITIAL	A	
	7020435-ML001	B	S. TRUDEAU 30/APR/83
	RICHARD MILLER		
	7020435-ML002	C	S. AZEVEDO 16JAN84
	R. MILLER		

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)

INCHES TOLERANCES	ANGLES ±0° 30'	SURFACE QUALITY MICROINCHES	APPLICABLE DIMENSION RANGE (CHECK ONE)	DIMENSION RANGE IN INCHES: OVER 0 TO 0.2	OVER 0.2 TO 1.0	OVER 1.0 TO 3.0	OVER 3.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
.X± ± .1			□		±.02	±.03	±.05	±.10	
.XX± ± .02			□	±.004	±.008	±.012	±.018	±.024	±.04
.XXX± ± .005			□						

FIRST HIGHER ASS'Y

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL
SEE PARTS LIST

FINISH
NONE

DRN	M DUGGAN	DATE 16 DEC 82
CHK'D	D MILLER	DATE 4 FEB 83
DES. ENG.	D MILLER	DATE 4 FEB 83
RESP. ENG.	A DELUCA	DATE 4 FEB 83
MFG. ENG.	M LIVINGSTON	DATE 4 FEB 83
TOP DOC.		

TITLE
digital
CABLE, DC
POWER DRIVE

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV.
D	IA	7020435-0-DBU	C

SCALE NONE SHEET 1 OF 1

D IA 7020435-0-DBU C

AUTOMATED BY PRTLST.4Q(50)

P A R T S L I S T

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION 1K
					VARIATION REVISION LEVEL:	
1	1		1216651-14		CONN,IDC 09SKT(1X09).156CC	1
2	2		1216650-02		CONN,IDC 9POS STANDARD COVER	1
3	3		1210821-04		MATE-N-LOK 04SKT(1X04) HSG	2
4	4		1209379-00		MATE-N-LOK 01SKT 20-14AWG .0820D	8
5	5		1700394-01		*** THIS ITEM IS NOT USED ***	-
6	6		9009507-00		*** THIS ITEM IS NOT USED ***	-
7	7		9009255-01		LABEL, POWER SUPPLY, 2-7/8" LG X	1
8	8		9107430-02		WIRE,TWP 18AWG(19/30)IPVC 150V	A/R
9	9		9107430-03		WIRE,TWP 18AWG(19/30)IPVC 150V	A/R
10	10		1219389-02		*** THIS ITEM IS NOT USED ***	-
11	11		9007031-00		TIE,CABLE BUNDL.DIA 0- 3/4"=101	8
12	12		1215588-00		CONN,P+S KEYING PLUG USE W 12	1

REVISION HISTORY		
ENG	ECO NUMBER	REV
	INITIAL	A
RM	7020435-ML001	B
RM	7020435-ML002	C

BASIC PART NO: 7020435

SECTION A OF A

SECTION.VARIATION INDEX

[A]1K

[B]

[C]

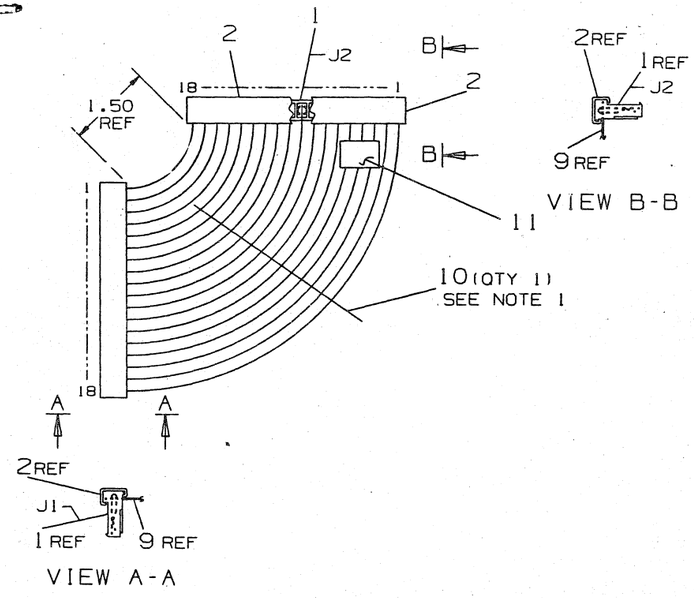
[D]

[E]

[F]

DRN: M. DUGGAN	DATE: 20-DEC-82	D I G I T A L
CHK'D: D. MILLER	DATE: 4-FEB-83	TITLE PARTS LIST CABLE, DC POWER DRIVE
DES.ENG: D. MILLER	DATE: 4-FEB-83	DOCUMENT NUMBER
RESP.ENG.: A. DELUCA	DATE: 4-FEB-83	SIZE: K / CODE: PL / NUMBER: 7020435-0-DBP / REV: C
MFG.ENG.: M. LIVINGSTON	DATE: 4-FEB-83	RELEASE DATE: 22-FEB-84
ASSEMBLY NUMBER: D-IA-7020435-0-DBU	TOP DOCUMENT NUMBER:	FILE NAME: Z5983C.PLS / EDIT #: 11

LEGEND		
PART NO.	REV	VARIATION
7020450-01	C1	AS SHOWN
7020450-02	A1	SEE WIRE TABLE



ITEM NO.	DESCRIPTION AWG	COLOR	FROM CONN	WITH	TO CONN	WITH	-01 WIRE LENGTH (±.12)	-02 WIRE LENGTH (±.12)
3	18	RED	J1-1	——	J2-18	——	2.19	2.19
3			J1-2	——	J2-17	——	2.31	2.31
3			J1-3	——	J2-16	——	2.50	2.50
3			J1-4	——	J2-15	——	2.56	2.56
3			J1-5	——	J2-14	——	2.88	2.88
3		RED	J1-6	——	J2-13	——	3.06	3.06
4		BLK	J1-7	——	J2-12	——	3.19	3.19
4			J1-8	——	J2-11	——	3.37	3.37
4			J1-9	——	J2-10	——	3.63	3.63
4			J1-10	——	J2-9	——	4.06	4.06
4			J1-11	——	J2-8	——	4.31	4.31
4			J1-12	——	J2-7	——	4.81	4.81
4		BLK	J1-13	——	J2-6	——	5.06	5.06
5		BLU	J1-14	——	J2-5	——	5.31	5.31
6		VIO	J1-15	——	J2-4	——	5.44	5.44
7		WHT	J1-16	——	J2-3	——	6.00	——
8		ORN	J1-17	——	J2-2	——	6.19	6.19
9	18	YEL	J1-18	——	J2-1	——	6.31	6.31

NOTES:
1. THE TIE WRAP, ITEM 10, SHOULD BE AROUND WIRES J1-5 THRU J1-10 ONLY.

CAUTION: OFF SHEET PARTS LIST EXISTS
REFER TO K-PL-7020450-0-DBP

REVISIONS			
CHK	CHANGE NO.	REV.	
	INITIAL	A	
	7020450-ML001	B	P.DUDLEY 18 AUG 83
			A.DELUCA 2 AUG 83
	7020450-ML002	C	S.AZEVEDO 30APR84
			A.DELUCA

	DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 1141

INCHES TOLERANCES	ANGLES ±0° 30'	APPLICABLE DIMENSION RANGE (CHECK ONE)	DIMENSION RANGE IN INCHES: OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 3.6	OVER 3.6 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
.X± ± .1	SURFACE QUALITY	□		±.02	±.03	±.05	±.10	
.XX± ± .02		□						
.XXX± ± .005	MICROINCHES	□	±.004	±.008	±.012	±.016	±.024	±.04

FIRST HIGHER ASS'Y

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL SEE PARTS LIST

FINISH NONE

DRN	M DUGGAN	DATE 13 DEC 82
CHK'D	D MILLER	DATE 4 FEB 83
DES. ENG.	D MILLER	DATE 4 FEB 83
RESP. ENG.	A DELUCA	DATE 4 FEB 83
MFG. ENG.	M LIVINGSTON	DATE 4 FEB 83
TOP DOC.		

TITLE: digital
CABLE, DC
POWER BACKPLANE

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV.
D	1A	7020450-0-DBU	C

SCALE NONE SHEET 1 OF 1

C 7020450-0-DBU 1A D 2
REV. C
NUMBER 7020450-0-DBU
SIZE D CODE 1A
B

AUTOMATED BY PRTLST.4Q(50) — P A R T S L I S T — SHEET A1 OF A1

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION 01	02
					VARIATION REVISION LEVEL:		A1
1	1		1216651-12		CONN,TOC 18SKT(1X18).156CC	2	2
2	2		1216650-03		CONN,IDC 18POS STANDARD COVER	2	2
3	3		9107786-22		WIRE, 18AWG(19/30)IPVC 300V1	A/R	A/R
4	4		9107786-00		WIRE, 18AWG(19/30)IPVC 300V1	A/R	A/R
5	5		9107786-66		WIRE, 18AWG(19/30)IPVC 300V1	A/R	A/R
5	6		9107786-77		WIRE, 18AWG(19/30)IPVC 300V1	A/R	A/R
7	7		9107786-99		WIRE, 18AWG(19/30)IPVC 300V1	A/R	-
8	8		9107786-33		WIRE, 18AWG(19/30)IPVC 300V1	A/R	A/R
9	9		9107786-44		WIRE, 18AWG(19/30)IPVC 300V1	A/R	A/R
10	10		9007031-00		TIE,CABLE BUNDL.DIA 0- 3/4"=101	1	1
11	11		9009255-01		LABEL, POWER SUPPLY, 2-7/8" LG X	1	1

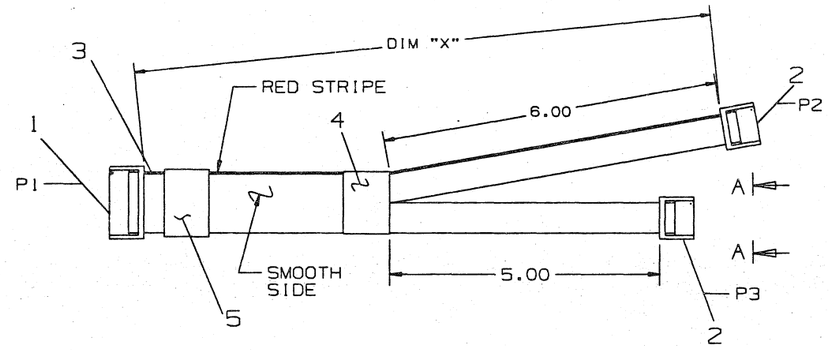
REVISION HISTORY			BASIC PART NO: 7020450				
ENG	ECO NUMBER	REV	SECTION A OF A				
---	INITIAL	A	SECTION.VARIATION INDEX	DRN: M. DUGGAN	DATE: 16-DEC-82	D I G I T A L	
AD	7020450-ML001	B	[A]01,02	CHK'D: D. MILLER	DATE: 4-FEB-83	TITLE PARTS LIST CABLE, DC POWER BACKPLANE	
AD	7020450-ML002	C	[B]	DES.ENG: D. MILLER	DATE: 4-FEB-83	DOCUMENT NUMBER	
			[C]			SIZE / CODE / NUMBER	REV
			[D]	RESP.ENG.: A. DELUCA	DATE: 4-FEB-83	K / PL / 7020450-0-DBP	C
			[E]	MFG.ENG.: M. LIVINGSTON	DATE: 4-FEB-83	RELEASE DATE: 27-APR-84	
			[F]	ASSEMBLY NUMBER: D-IA-7020450-0-DBU	TOP DOCUMENT NUMBER:	FILE NAME: Z6199C.PLS	EDIT # 3

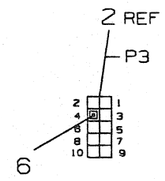
WIRE TABLE

ITEM NO.	DESCRIPTION AWG	COLOR	FROM CONN	FROM WITH	TO CONN	TO WITH	REMARKS
3	30	—	P1-1	1	P2-1	2	
	30	—	P1-2	1	P2-2	2	
	30	—	P1-3	1	P2-3	2	
	30	—	P1-4	1	P2-4	2	
	30	—	P1-5	1	P2-5	2	
	30	—	P1-6	1	P2-6	2	
	30	—	P1-7	1	P2 7	2	
	30	—	P1-8	1	P2-8	2	
	30	—	P1-9	1	P2-9	2	
	30	—	P1-10	1	P2-10	2	
	30	—	P1-11	1	P3-1	2	
	30	—	P1-12	1	P3-2	2	
	30	—	P1-13	1	P3-3	2	
	30	—	P1-14	1	P3-4	2	
	30	—	P1-15	1	P3-5	2	
	30	—	P1-16	1	P3-6	2	
	30	—	P1-17	1	P3-7	2	
	30	—	P1-18	1	P3-8	2	
	30	—	P1-19	1	P3-9	2	
	30	—	P1-20	1	P3-10	2	

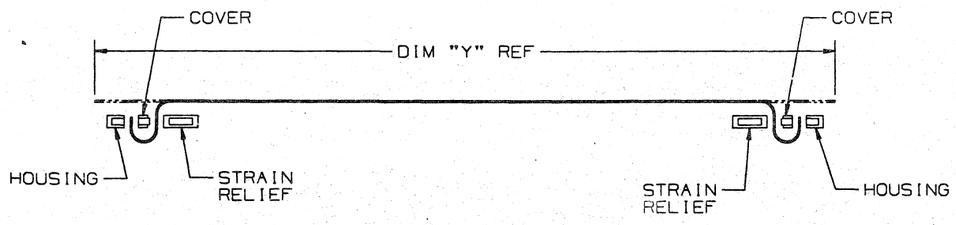
LEGEND

NUMBER	DIM X VARIATION	DIM Y (PRECUT)
7020451-1C	1 FT-3 IN ±.25 IN	1 FT-4 IN ±.25 IN





VIEW A-A
SCALE: NONE



CAUTION: OFF SHEET PARTS LIST EXISTS
REFER TO K-PL-7020451-0-DBP

REVISIONS			
CHK	CHANGE NO.	REV.	
	INITIAL	A	
	7020451-ML001	B	
	S AZEVEDO 17JAN84		
	R. MILLER		

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)

INCHES TOLERANCES	ANGLES ±0° 30'	APPLICABLE DIMENSION RANGE (CHECK ONE)	DIMENSION RANGE IN INCHES: OVER 0 TO 0.2	OVER 0.2 TO 1.0	OVER 1.0 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
.X ± .1	SURFACE QUALITY	□		±.02	±.03	±.05	±.10	
.XX ± .02		□						
.XXX ± .005	MICROINCHES	□	±.004	±.008	±.012	±.016	±.024	±.04

FIRST HIGHER ASS'Y

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL: SEE PARTS LIST

FINISH: NONE

DRN	M DUGGAN	DATE 16 DEC 82
CHK'D	D MILLER	DATE 4 FEB 83
DES. ENG.	D MILLER	DATE 4 FEB 83
RESP. ENG.	A DELUCA	DATE 4 FEB 83
MFG. ENG.	M LIVINGSTON	DATE 4 FEB 83
TOP DOC.		

TITLE: CABLE, FRONT PANEL TO BACK PLANE

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV.
D	1A	7020451-0-DBU	B

SCALE NONE SHEET 1 OF 1

D 1A 7020451-0-DBU B

AUTOMATED BY PRTLST.4Q(50)

P A R T S L I S T

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION 1C
					VARIATION REVISION LEVEL:	
1	1		1211206-03		CONN,IDC 20SKT(2X10).100CC GOL	1
2	2		1211206-02		CONN,IDC 10SKT(2X05).100CC GOL	2
3	3		9107747-00		CABLE,RIBBON BOND 20COND 30AWG	A/R
4	4		9009507-00		TAPE,VINYL ADH .75 WDX .00	A/R
5	5		9009255-01		LABEL, POWER SUPPLY, 2-7/8" LG X	1
6	6		1216967-00		CARD EDGE PLUG,POLARIZING PLAST	1

REVISION HISTORY

ENG	ECO NUMBER	REV
DM	INITIAL	A
	7020451-ML001	B

BASIC PART NO: 7020451

SECTION A OF A

SECTION.VARIATION INDEX
[A]1C
[B]
[C]
[D]
[E]
[F]

DRN: M. DUGGAN — DATE: 17-DEC-82

CHK'D: D. MILLER — DATE: 4-FEB-83

DES.ENG: D. MILLER — DATE: 4-FEB-83

RESP.ENG.: A. DELUCA — DATE: 4-FEB-83

MFG.ENG.: M. LIVINGSTON — DATE: 4-FEB-83

ASSEMBLY NUMBER: D-IA-7020451-0-DBU

TOP DOCUMENT NUMBER:

D I G I T A L

TITLE: PARTS LIST
CABLE, FRONT PANEL TO BACKPLANE

DOCUMENT NUMBER SIZE	CODE	NUMBER	REV
K	PL	7020451-0-DBP	B

RELEASE DATE: 22-FEB-84

FILE NAME: Z6200B.PLS

EDIT #: 12

LEGEND, CONT.

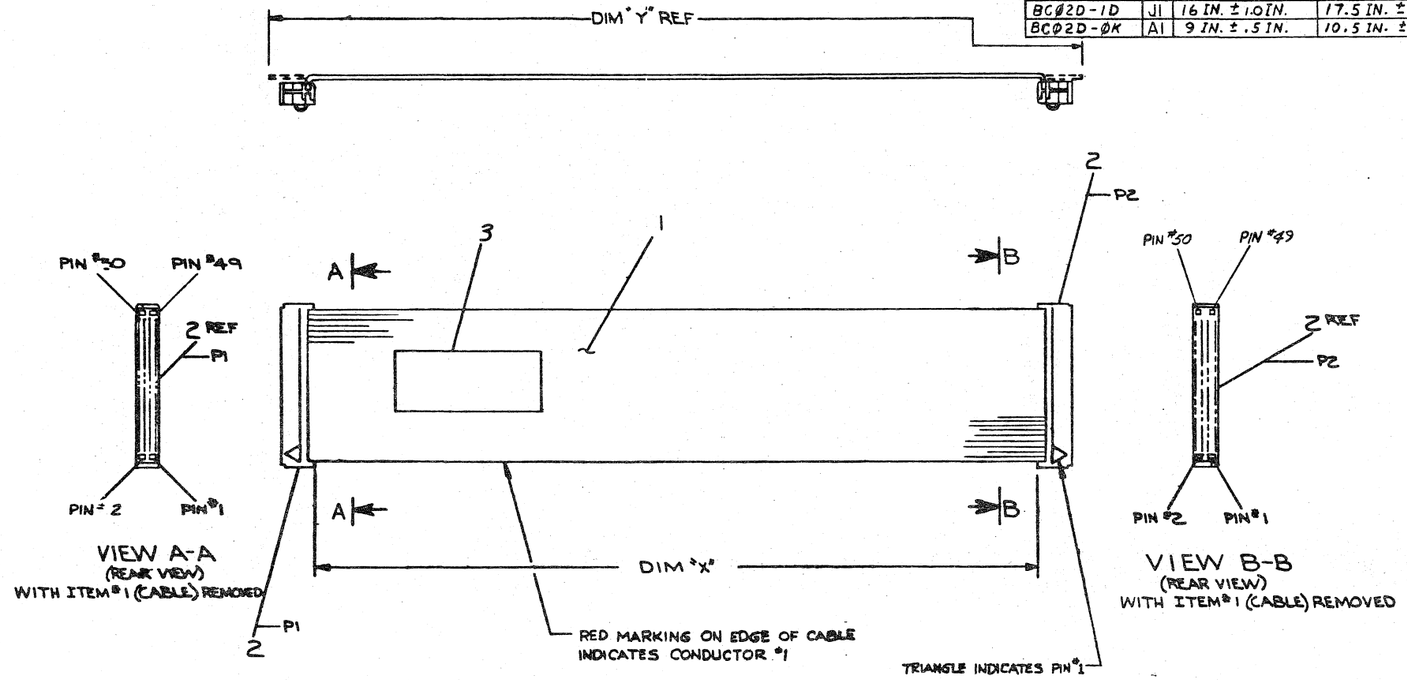
NUMBER	PART REV	DIM X VARIATION	DIM Y PRECUT (REF)
BC20D-04	A1	4FT ±1 IN.	4 FT 1.5 IN. ±1 IN.

LEGEND

NUMBER	PART REV	DIM 'X' VARIATION	DIM 'Y' PRECUT (REF)
BCØ2D-Ø1	J1	12 IN. ±1.0 IN.	13.5 IN ± 1.0 IN
BCØ2D-1B	J1	14 IN. ±1.0 IN.	15.5 IN. ± 1.0 IN.
BCØ2D-ØF	J1	6 IN. ±.5 IN	7.5 IN ± .5 IN
BCØ2D-Ø3	J1	3 FT. ± 1 IN.	3 FT, 1.5 IN ± 1 IN
BCØ2D-1Ø	J1	10 FT. ± 3 IN.	10 FT., 1.5 IN ± 3 IN
BCØ2D-Ø5	J1	5 FT ± 2 IN.	5 FT., 1.5 IN ± 2 IN
BCØ2D-Ø2	J1	2 FT ± 1.0 IN	2 FT, 1.5 IN ± 1.0 IN
BCØ2D-1D	J1	16 IN. ± 1.0 IN.	17.5 IN. ± 1.0 IN.
BCØ2D-ØK	A1	9 IN. ± .5 IN.	10.5 IN. ± .5 IN.

NOTES:

1. CONNECTORS P1 AND P2 ARE TO BE WIRED POINT-TO-POINT (P1-1 TO P2-1, P1-2 TO P2-2, ETC).



CAUTION: OFF SHEET PARTS LIST EXISTS.
REFER TO K-PL-BCØ2D-Ø-DBP.

REVISIONS			
ECO#	CHANGE NO.	REV.	
	FPP8-A-ML0023	D	
	BCØ2D-ML0004	E	
	BCØ2D-ML0005	F	
	BCØ2D-ML0006	H	
	BCØ2D-ML0007	J	
	BCØ2D-TW008	K	

DRAWN	HAROLD GULLISON 31-DEC-81
CHECKED	D. GILLEY 31 MAR 82
ENGINEER	A. BOUDWAY 13 JULY 83
PROJECT ENGINEER	R. MILLER 23 AUG 83
PRODUCT ENGINEER	W. KERCHNER 26 JAN 84
QUALITY ASSURANCE	D. GERRY 8-AUG-85
MANUFACTURING	E. REDNER

	DESCRIPTION	DWG./PART NO.	ITEM NO.
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
QUANTITY & VARIATION	ANGLES ±0° 30' / PLACE OF ACCURACY (CHECK ONE) / NOMINAL DIMENSION RANGE INCHES: OVER 0 TO 0.2; OVER 0.2 TO 1.2; OVER 1.2 TO 4.0; OVER 4.0 TO 12.0; OVER 12.0 TO 40.0; OVER 40.0 TO 80.0		
	SURFACE QUALITY IN MICROINCHES — MEDIUM ✓	±.008	±.008	±.012	±.016	±.035	±.04
	PRECISION	±.012	±.016	±.025	±.04	±.070	±.08

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL	SEE PARTS LIST	
FINISH	—	
DRN. M. CHOINIERE	9-JAN-84	
CHK'D KERCHNER	9-APR-84	
ENG. KERCHNER	9-APR-84	
PROJ. ENGINEER	9-APR-84	
PROD. R. ALLEN	26-APR-84	
NEXT HIGHER ASSY.	D-IA-FPP8-A-Ø	
SCALE	NONE	
SHEET	OF 1	

FIRST USED ON: FPP8-A

TITLE: 50 CONDUCTOR SIGNAL CABLE (BCØ2D)

SIZE	CODE	NUMBER	REV.
D	IA	BCØ2D-Ø-Ø	K

DIST.

AUTOMATED BY PRTLST.3P(44) P A R T S L I S T SHEET A1 OF A1

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION 01	1B	OF	03	10	05	02	1D	OK	04
					VARIATION REVISION LEVEL:	J1	J1	J1	J1	J1	J1	J1	J1	A1	A1
1	1	SEE NOTE	9107747-04		CABLE,RIBBON BOND 50COND 30AWG	14	16	8	38	122	62	26	18	11	50
2	2		1211664-00		CONN,IDC 50POS(1X25).100CC GOL	2	2	2	2	2	2	2	2	2	2
3	3		3616073-00		LABEL,ID W/COPY VERTICAL	1	1	1	1	1	1	1	1	1	1

4 NOTE: QUANTITY OF ITEMS 1 IS GIVEN IN INCHES

REVISION HISTORY			BASIC PART NO: BC02D
ENG	ECO NUMBER	REV	SECTION A OF A
HC	FPP8-A-ML003	D	SECTION.VARIATION INDEX
DG	BC02D-ML004	E	[A]01,1B,OF,03,10,05,
AB	BC02D-ML005	F	02,1D,OK,04
RM	BC02D-ML006	H	[B]
WK	BC02D-ML007	J	
ER	BC02D-TW008	K	[C]
			[D]
			[E]
			[F]

DRN: M. CHOINERE	DATE: 6-JAN-76	D I G I T A L
CHK'D: W. KERCHNER	DATE: 9-APR-76	TITLE PARTS LIST 50 COND. SIGNAL (BC02D)
DES.ENG: W. KERCHNER	DATE: 9-APR-76	DOCUMENT NUMBER
RESP.ENG.: W. KERCHNER	DATE: 9-APR-76	SIZE: K; CODE: PL; NUMBER: BC02D-0-DBP; REV: K
MFG.ENG.: R. ALLEN	DATE: 28-APR-76	RELEASE DATE: 10-SEP-85
ASSEMBLY NUMBER: D-IA-BC02D-0-0	TOP DOCUMENT NUMBER: D-UA-FPP8-A-0	FILE NAME: Z3423K.PLS; EDIT #: 3