digital

MGIO

Engineering Drawings

Digital Equipment Corporation

digital EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

SEQUENCE	
DRAWING DIRECTORY	B-DD-MG1Ø-Ø
MEMORY CYCLE FLOW	D-FD-MG1Ø-Ø-MCFØ
MEMORY CYCLE FLOW	D-FD-MG1Ø-Ø-MCF1
MEMORY CYCLE FLOW	D-FD-MG1Ø-Ø-MCF2
INSTRUCTION SHEET	D-BS-MG1Ø-Ø-ISØ
INSTRUCTION SHEET	D-BS-MG1Ø-Ø-IS1
INTERCONNECTION BLOCK DIAGRAM	D-BD-MG1Ø-Ø-IBDØ
INTERCONNECTION BLOCK DIAGRAM	D-BD-MG1Ø-Ø-IBD1
MG1Ø TIMING DIAGRAM	D-TD-MG1Ø-Ø-TD1
MG1Ø TIMING DIAGRAM	D-TD-MG1Ø-Ø-TD2
DATA BITS Ø-7	D-BS-MG1Ø-Ø-DBØ
DATA BITS 8-15	D-BS-MG1Ø-Ø-DB1
DATA BITS 16-23	D-BS-MG1Ø-Ø-DB2
DATA BITS 24-31	D-BS-MG1Ø-Ø-DB3
DATA BITS 32-PAR	D-BS-MG1Ø-Ø-DB4
ADDRESS BITS 21-28	D-BS-MG1Ø-Ø-ABØ
ADDRESS BITS 29-33,WRRQ,RDRQ	D-BS-MG1Ø-Ø-AB1
PORT REQUEST LOGIC Ø-3	D-BS-MG1Ø-Ø-PRØ
PORT REQUEST LOGIC 4-7	D-BS-MG1Ø-Ø-PR1
CHECK LOGIC	D-BS-MG1Ø-Ø-CHK
CØ CYCLE TIMING	D-BS-MG1Ø-Ø-ØCØ
CØ CYCLE TIMING	D-BS-MG1Ø-Ø-ØC1
CØ CYCLE TIMING	D-BS-MG1Ø-Ø-ØC2
CØ CYCLE TIMING	D-BS-MG1Ø-Ø-ØC3
C1 CYCLE TIMING	D-BS-MG1Ø-Ø-1CØ
C1 CYCLE TIMING	D-BS-MG1Ø-Ø-1C1
C1 CYCLE TIMING	D-BS-MG1Ø-Ø-1C2
C1 CYCLE TIMING	D-BS-MG1Ø-Ø-1C3
CØ PRIORITY CONTROL	D-BS-MG1Ø-Ø-ØPCØ
CØ PRIORITY CONTROL	D-BS-MG1Ø-Ø-ØPC1
CØ PRIORITY CONTROL	D-BS-MG1Ø-Ø-ØPC2
CØ PRIORITY CONTROL	D-BS-MG1Ø-Ø-ØPC3
C1 PRIORITY CONTROL	D-BS-MG1Ø-Ø-1PCØ
C1 PRIORITY CONTROL	D-BS-MG1Ø-Ø-1PC1
C1 PRIORITY CONTROL	D-BS-MG1Ø-Ø-1PC2
C1 PRIORITY CONTROL	D-BS-MG1Ø-Ø-1PC3
INTERNAL CABLES & JUMPERS	D-BS-MG1Ø-Ø-CBLØ
INTERNAL CABLES & JUMPERS	D-BS-MG1Ø-Ø-CBL1
INTERNAL CABLES & JUMPERS	D-BS-MG1Ø-Ø-CBL2
CØ STACK TIMING	D-BS-MG1Ø-Ø-ØSTØ
CØ STACK TIMING	D-BS-MG1Ø-Ø-ØST1
CØ STACK TIMING	D-BS-MG1Ø-Ø-ØST2
C1 STACK TIMING	D-BS-MG1Ø-Ø-1STØ
C1 STACK TIMING	D-BS-MG1Ø-Ø-1ST1

SEQUENCE	
C1 STACK TIMING	D-BS-MG1Ø-Ø-1ST2
16K X-Y DRIVE (SHEET 2)	D-CS-G235-Ø-1
16K X-Y DRIVE (SHEET 3)	D-CS-G235-Ø-1
16K X-Y DRIVE (G235)	D-BS-MG1Ø-Ø-DRØ
16K X-Y DRIVE (G235)	D-BS-MG1Ø-Ø-DR1
16K X-Y DRIVE (G235)	D-BS-MG1Ø-Ø-DR2
STACK BOARD (SHEET 1)	D-CS-H217-Ø-1
STACK MODULE (H217B)	D-BS-MG1Ø-Ø-STØ
STACK MODULE (H217B)	D-BS-MG1Ø-Ø-ST1
STACK MODULE (H217B)	D-BS-MG1Ø-Ø-ST2
16K SENSE/INHIBIT (SHEET 2)	D-CS-G114-Ø-1
16K SENSE/INHIBIT (SHEET 3)	D-CS-G114-Ø-1
16K SENSE/INHIBIT (G114)	D-BS-MG1Ø-Ø-SIØ
16K SENSE/INHIBIT (G114)	D-BS-MG1Ø-Ø-SI1
16K SENSE/INHIBIT (G114)	D-BS-MG1Ø-Ø-SI2
16K SENSE/INHIBIT (G114)	D-BS-MG1Ø-Ø-SI3
16K SENSE/INHIBIT (G114)	D-BS-MG1Ø-Ø-SI4
16K SENSE/INHIBIT (G114)	D-BS-MG1Ø-Ø-SI5
16K SENSE/INHIBIT (G114)	D-BS-MG1Ø-Ø-SI6
16K X-Y DRIVE (G235)	D-BS-MG1Ø-Ø-DR1Ø
16K X-Y DRIVE (G235)	D-BS-MG1Ø-Ø-DR11
16K X-Y DRIVE (G235)	D-BS-MG1Ø-Ø-DR12
STACK MODULE (H217B)	D-BS-MG1Ø-Ø-ST1Ø
STACK MODULE (H217B)	D-BS-MG1Ø-Ø-ST11
STACK MODULE (H217B)	D-BS-MG1Ø-Ø-ST12
16K SENSE/INHIBIT (G114)	D-BS-MG1Ø-Ø-SI1Ø
16K SENSE/INHIBIT (G114)	D-BS-MG1Ø-Ø-SI11
16K SENSE/INHIBIT (G114)	D-BS-MG1Ø-Ø-SI12
16K SENSE/INHIBIT (G114)	D-BS-MG1Ø-Ø-SI13
16K SENSE/INHIBIT (G114)	D-BS-MG1Ø-Ø-SI14
16K SENSE/INHIBIT (G114)	D-BS-MG1Ø-Ø-SI15
16K SENSE/INHIBIT (G114)	D-BS-MG1Ø-Ø-SI16
MODULE UTILIZATION	D-MU-MG1Ø-Ø-MUAF
MODULE UTILIZATION	D-MU-MG1Ø-Ø-MUHL
CABLE SET	D-AD-7010995-0-0
PARITY CHECK	D-CS-M8588-Ø-CHKØ
PARITY CHECK	D-CS-M8588-Ø-CHK1
PARITY CHECK	D-CS-M8588-Ø-CHK2
ADDRESS RECEIVER	D-CS-M8591-Ø-ADRØ
ADDRESS RECEIVER	D-CS-M8591-Ø-ADR1
ADDRESS RECEIVER	D-CS-M8591-Ø-ADR2
POWER AND GROUND	D-CS-M8591-Ø-ADR3
MG1Ø PORT ADDRESS	D-CS-M8592-Ø-PADØ
MG1Ø PORT ADDRESS	D-CS-M8592-Ø-PAD1

THIS IS PRINT SET

UNIT VARIATIONS

VAR	TITLE	PRINT SET
MG1Ø-A	CORE MEMORY 32K	X
MG1Ø-E	32K EXPANSION	
MG1Ø-G	MG1Ø-A PLUG MG1Ø-E, 64K	X
MG1Ø-H	CORE MEMORY 128K	X

REVISIONS		
DATE	CHG. NO.	REV
1-76	MG10-00003	A
6-76	MG10-00004	B
5-77	MG1Ø-00009	C
11-77	MG10-MR00	D

USED ON OPTION/MODEL

SHEET 1 OF 14

DRN. W. Hamlin	DATE 6/11/75	TITLE: CORE MEMORY (MG1Ø)
CHK'D. P. LaBlanc	DATE 6-10-75	
PROJ ENG. D J Chen	DATE 6-10-75	
PROD. J Archer	DATE 6-10-75	SIZE B / CODE DD / NUMBER MG1Ø-Ø / REV D
FIELD SERV. R K Clearwater	DATE 6-10-75	DIST

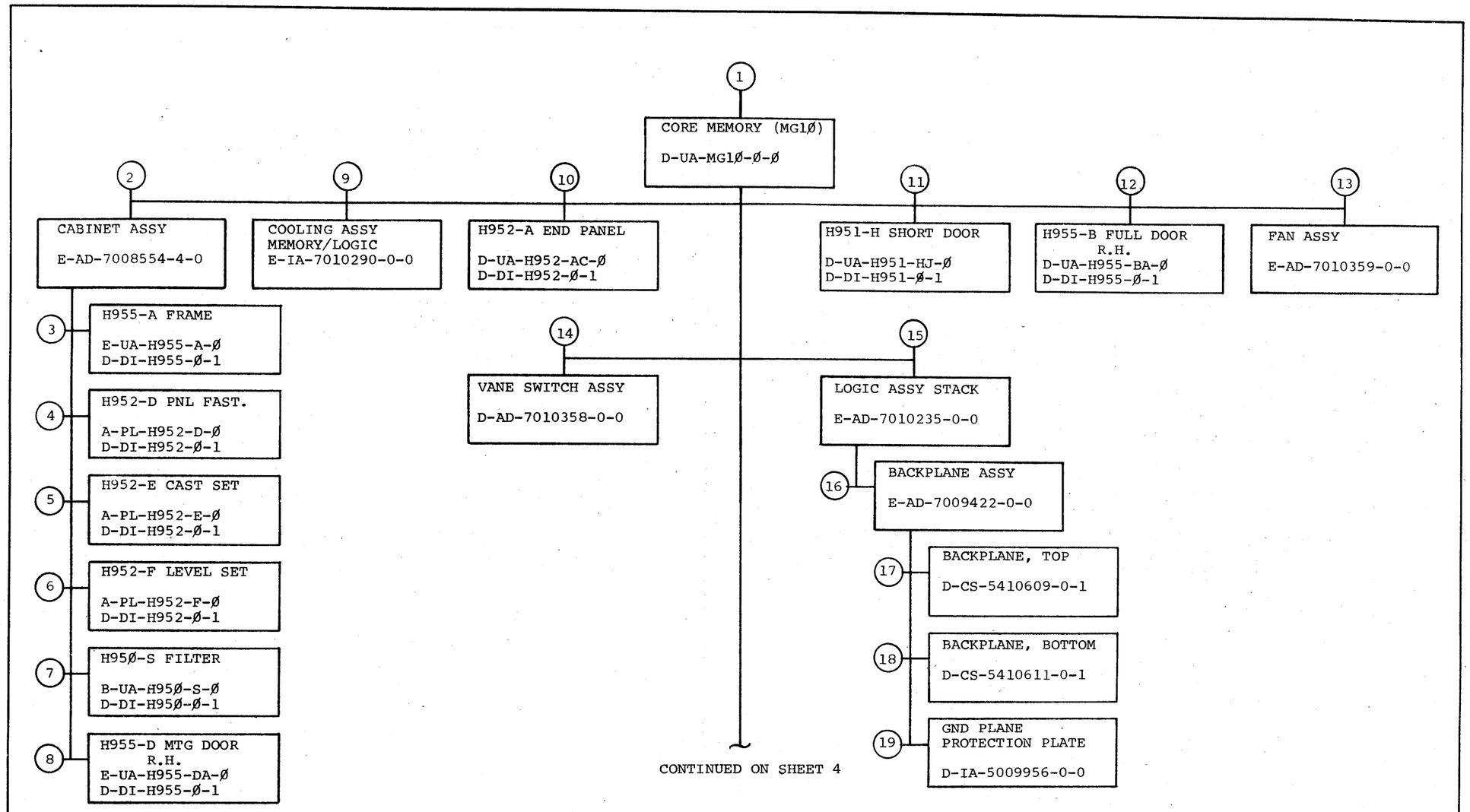
DEC 15-13231-1081-2-1A-R122

DRB 106

	SEQUENCE
MG1Ø PORT ADDRESS	D-CS-M8592-Ø-PAD2
MG1Ø PORT ADDRESS	D-CS-M8592-Ø-PAD3
MG1Ø DATA REGISTER	D-CS-M8593-Ø-DRØ
MG1Ø DATA REGISTER	D-CS-M8593-Ø-DR1
MG1Ø DATA REGISTER	D-CS-M8593-Ø-DR2
MG1Ø ADDRESS REGISTER	D-CS-M8593-YA-ARØ
MG1Ø ADDRESS REGISTER	D-CS-M8593-YA-AR1
MG1Ø ADDRESS REGISTER	D-CS-M8593-YA-AR2
MG1Ø DATA TRANSCEIVER	D-CS-M8594-Ø-DATØ
MG1Ø DATA TRANSCEIVER	D-CS-M8594-Ø-DAT1
MG1Ø DATA TRANSCEIVER	D-CS-M8594-Ø-DAT2
JUMPER CARD	D-CS-G728-YA-1
FLEXPRINT CABLE CONNECTOR	B-CS-M9Ø1-Ø-1
KI-1Ø INDICATOR DRIVER	C-CS-M947-Ø-1
KI-1Ø INDICATOR BOARD	C-CS-M948-Ø-1
SBUS TERMINATOR	D-CS-M9ØØ5-Ø-TRN1
CABLE CONNECTOR	D-CS-M9Ø11-Ø-1
MEM BUS INTERFACE	D-IC-MG1Ø-Ø-MB1
AC-DC POWER WIRING	D-IC-MG1Ø-Ø-PW
WIRED ASSY (CONTROL)	K-WL-MG1Ø-Ø-CONT
WIRED ASSY (STACK)	K-WL-MG1Ø-Ø-STK
SWITCH PLATE ASSY (SHTS 1,2)	D-UA-5411446-0-0
MG1Ø SWITCH BOARD	D-CS-5411446-0-1
ACCESSORY LIST	A-PL-MG1Ø-Ø-ACL
H742Ø POWER SUPPLY	D-CS-H742Ø-Ø-1
H742Ø POWER SUPPLY	E-UA-H742Ø-Ø-Ø
H742Ø POWER SUPPLY (P.L.)	A-PL-H742Ø-Ø-Ø
POWER LINE MONITOR	D-CS-5411086-Ø-1
~~POWER CONTROL BOARD~~	~~E-IA-5409730-0-0~~
H744 POWER SUPPLY	D-CS-H744-Ø-1
H744 POWER SUPPLY	E-UA-H744-Ø-Ø
H754 POWER SUPPLY	E-CS-H754-Ø-1
+15V REGULATOR	D-CS-5411207-0-1
H77Ø POWER SUPPLY	E-UA-H77Ø-Ø-Ø
H77Ø POWER SUPPLY (P.L.)	A-PL-H77Ø-Ø-Ø
+15V REGULATOR	D-UA-5411207-0-0
857 POWER CONTROL	B-DD-857-0
857 POWER CONTROL (P.L.)	A-PL-857-0-0
CORE MEMORY MG1Ø	D-UA-MG1Ø-Ø-Ø
CORE MEMORY (P.L.)	A-PL-MG1Ø-Ø-Ø
COOLING ASSY	E-IA-7010290-0-0
FAN ASSY	E-AD-7010359-0-0
VANE SWITCH ASSY	D-AD-7010358-0-0
INDICATOR PANEL ASSY	E-AD-7006671-0-0
MC1Ø-G ADD. PORT OPTION	A-SP-MC1Ø-G-AAP
ACCEPTANCE TEST MEMORY SYSTEMS	A-SP-PDP1Ø-Ø-MEMS
EXTERNAL COMPONENTS LIST	B-CP-MGIØ-Ø-EC

	SEQUENCE
MFG. SET	
CHECKOUT PROCEDURE	A-SP-MG1Ø-Ø-CP
ON-LINE CHECKOUT PROCEDURE	A-SP-MG1Ø-Ø-OCP

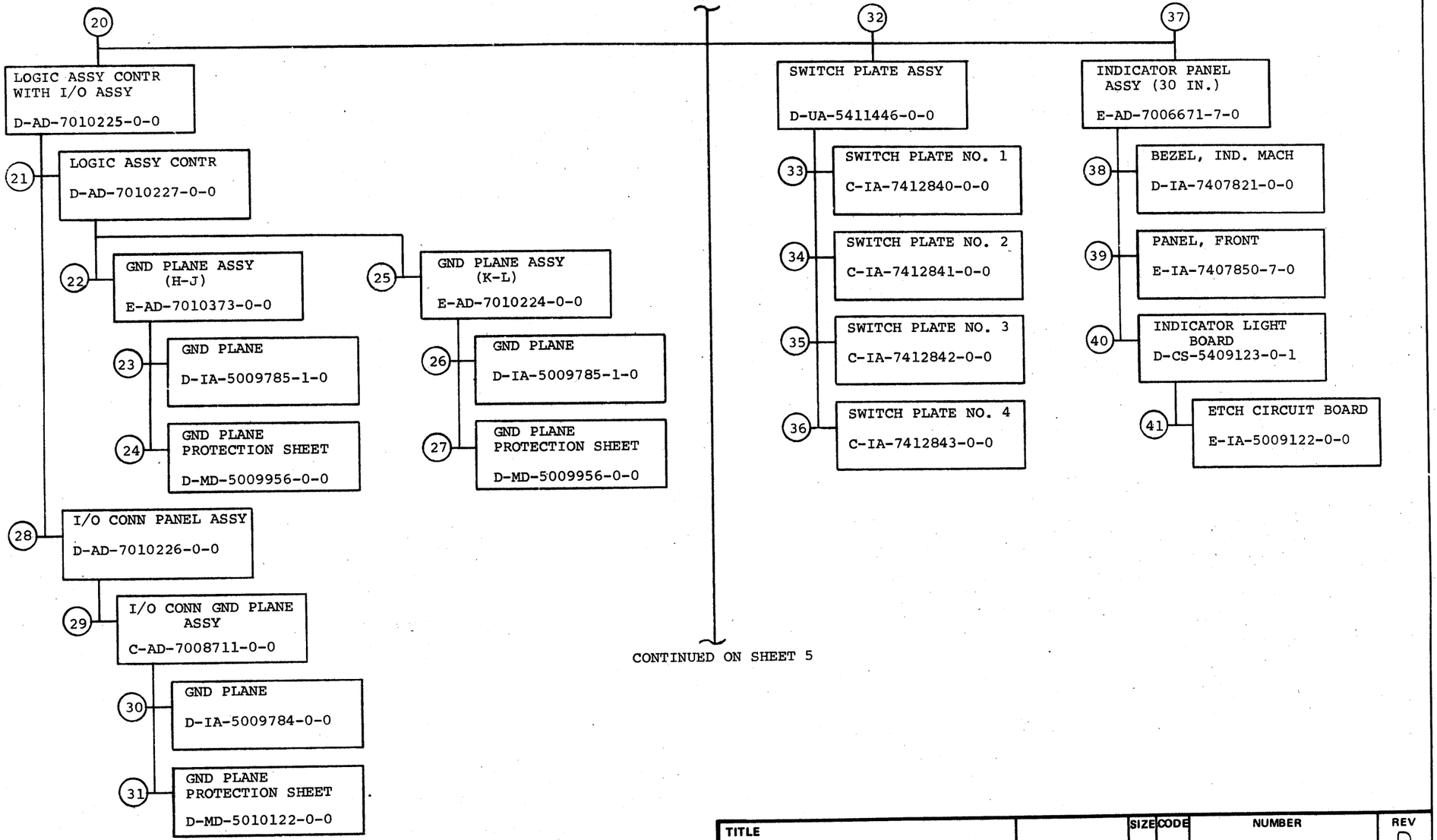
TITLE		SIZE	CODE	NUMBER	REV
CORE MEMORY (MG1Ø)	SHEET 2 OF 14	B	DD	MG1Ø-Ø	D



CONTINUED ON SHEET 4

TITLE		SIZE	CODE	NUMBER	REV
CORE MEMORY (MG1Ø)	SHEET 3 OF 14	B	DD	MG1Ø-Ø	D

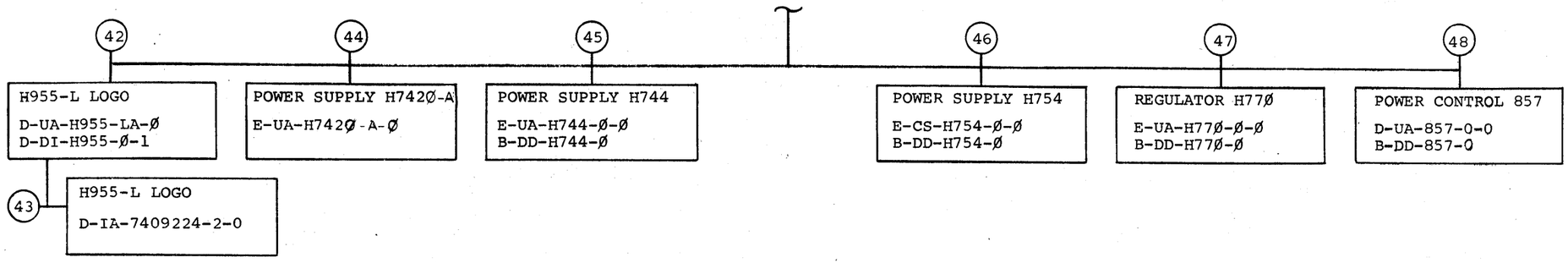
CONTINUED FROM SHEET 3



CONTINUED ON SHEET 5

TITLE		SIZE	CODE	NUMBER	REV
CORE MEMORY (MG1Ø)	SHEET 4 OF 14	B	DD	MG1Ø-Ø	D

CONTINUED FROM SHEET 4



TITLE		SIZE	CODE	NUMBER	REV
CORE MEMORY (MG1Ø)	SHEET 5 OF 14	B	DD	MG1Ø-Ø	D

CUSTOMER PRINT SET				MFG. SET	ELECTRICAL						OPTION NO./FILE DATE
					FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION		
X					1	D-FD-MG1Ø-Ø-MCFØ	#	1	MEMORY CYCLE FLOW		
X						D-FD-MG1Ø-Ø-MCF1	#	1	MEMORY CYCLE FLOW		
X						D-FD-MG1Ø-Ø-MCF2	#	1	MEMORY CYCLE FLOW		
X						D-BS-MG1Ø-Ø-ISØ	#	1	INSTRUCTION SHEET Ø		
X						D-BS-MG1Ø-Ø-IS1	#	1	INSTRUCTION SHEET 1		
X						D-BD-MG1Ø-Ø-IBDØ	#	1	INTERCONNECTION BLOCK DIAGRAM		
X						D-BD-MG1Ø-Ø-IBD1	#	1	INTERCONNECTION BLOCK DIAGRAM		
X						D-TD-MG1Ø-Ø-TD1	#	1	MG1Ø TIMING DIAGRAM		
X						D-TD-MG1Ø-Ø-TD2	#	1	MG1Ø TIMING DIAGRAM		
X						D-BS-MG1Ø-Ø-DBØ	#	1	DATA BITS Ø-7		
X						D-BS-MG1Ø-Ø-DB1	#	1	DATA BITS 8-15		
X						D-BS-MG1Ø-Ø-DB2	#	1	DATA BITS 16-23		
X						D-BS-MG1Ø-Ø-DB3	#	1	DATA BITS 24-31		
X						D-BS-MG1Ø-Ø-DB4	#	1	DATA BITS 32-PAR		
X						D-BS-MG1Ø-Ø-ABØ	#	1	ADDRESS BITS 21-28		
X						D-BS-MG1Ø-Ø-AB1	#	1	ADDRESS BITS 29-33,WR RQ,RD RQ		
X						D-BS-MG1Ø-Ø-PRØ	#	1	PORT REQUEST LOGIC Ø-3		
X						D-BS-MG1Ø-Ø-PR1	#	1	PORT REQUEST LOGIC 4-7		
X						D-BS-MG1Ø-Ø-CHK	#	1	CHECK LOGIC		
X						D-BS-MG1Ø-Ø-ØCØ	#	1	CØ CYCLE TIMING		
X						D-BS-MG1Ø-Ø-ØC1	#	1	CØ CYCLE TIMING		
X						D-BS-MG1Ø-Ø-ØC2	#	1	CØ CYCLE TIMING		
X						D-BS-MG1Ø-Ø-ØC3	#	1	CØ CYCLE TIMING		
X						D-BS-MG1Ø-Ø-1CØ	#	1	C1 CYCLE TIMING		
X						D-BS-MG1Ø-Ø-1C1	#	1	C1 CYCLE TIMING		
X						D-BS-MG1Ø-Ø-1C2	#	1	C1 CYCLE TIMING		
X						D-BS-MG1Ø-Ø-1C3	#	1	C1 CYCLE TIMING		
X						D-BS-MG1Ø-Ø-ØPCØ	#	1	CØ PRIORITY CONTROL		
X						D-BS-MG1Ø-Ø-ØPC1	#	1	CØ PRIORITY CONTROL		
X						D-BS-MG1Ø-Ø-ØPC2	#	1	CØ PRIORITY CONTROL		
X						D-BS-MG1Ø-Ø-ØPC3	#	1	CØ PRIORITY CONTROL		
X						D-BS-MG1Ø-Ø-1PCØ	#	1	C1 PRIORITY CONTROL		
X						D-BS-MG1Ø-Ø-1PC1	#	1	C1 PRIORITY CONTROL		
X						D-BS-MG1Ø-Ø-1PC2	#	1	C1 PRIORITY CONTROL		
X						D-BS-MG1Ø-Ø-1PC3	#	1	C1 PRIORITY CONTROL		
X						D-BS-MG1Ø-Ø-CBLØ	#	1	INTERNAL CABLES AND JUMPERS		
X						D-BS-MG1Ø-Ø-CBL1	#	1	INTERNAL CABLES AND JUMPERS		
X						D-BS-MG1Ø-Ø-CBL2	#	1	INTERNAL CABLES AND JUMPERS		
X						D-BS-MG1Ø-Ø-ØSTØ	#	1	CØ STACK TIMING		
X						D-BS-MG1Ø-Ø-ØST1	#	1	CØ STACK TIMING		
X						D-BS-MG1Ø-Ø-ØST2	#	1	CØ STACK TIMING		
X						D-BS-MG1Ø-Ø-1STØ	#	1	C1 STACK TIMING		
X						D-BS-MG1Ø-Ø-1ST1	#	1	C1 STACK TIMING		
X						D-BS-MG1Ø-Ø-1ST2	#	1	C1 STACK TIMING		

CUSTOMER PRINT SET				MFG. SET	ELECTRICAL					OPTION NO./FILE DATE
					FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	
X						D-CS-G235-Ø-1	#	1	16K X-Y DRIVE (SHEET 2)	
X						D-CS-G235-Ø-1	#	1	16K X-Y DRIVE (SHEET 3)	
X						D-BS-MG1Ø-Ø-DRØ	#	1	16K X-Y DRIVE (G235)	
X						D-BS-MG1Ø-Ø-DR1	#	1	16K X-Y DRIVE (G235)	
X						D-BS-MG1Ø-Ø-DR2	#	1	16K X-Y DRIVE (G235)	
X						D-CS-H217-Ø-1	#	1	STACK BOARD (SHEET 1)	
X						D-BS-MG1Ø-Ø-STØ	#	1	STACK MODULE (H217B)	
X						D-BS-MG1Ø-Ø-ST1	#	1	STACK MODULE (H217B)	
X						D-BS-MG1Ø-Ø-ST2	#	1	STACK MODULE (H217B)	
X						D-CS-G114-Ø-1	#	1	16K SENSE/INHIBIT (SHEET 2)	
X						D-CS-G114-Ø-1	#	1	16K SENSE/INHIBIT (SHEET 3)	
X						D-BS-MG1Ø-Ø-SIØ	#	1	16K SENSE/INHIBIT (G114)	
X						D-BS-MG1Ø-Ø-SI1	#	1	16K SENSE/INHIBIT (G114)	
X						D-BS-MG1Ø-Ø-SI2	#	1	16K SENSE/INHIBIT (G114)	
X						D-BS-MG1Ø-Ø-SI3	#	1	16K SENSE/INHIBIT (G114)	
X						D-BS-MG1Ø-Ø-SI4	#	1	16K SENSE/INHIBIT (G114)	
X						D-BS-MG1Ø-Ø-SI5	#	1	16K SENSE/INHIBIT (G114)	
X						D-BS-MG1Ø-Ø-SI6	#	1	16K SENSE/INHIBIT (G114)	
X						D-BS-MG1Ø-Ø-DR1Ø	#	1	16K X-Y DRIVE (G235)	
X						D-BS-MG1Ø-Ø-DR11	#	1	16K X-Y DRIVE (G235)	
X						D-BS-MG1Ø-Ø-DR12	#	1	16K X-Y DRIVE (G235)	
X						D-BS-MG1Ø-Ø-ST1Ø	#	1	STACK MODULE (H217B)	
X						D-BS-MG1Ø-Ø-ST11	#	1	STACK MODULE (H217B)	
X						D-BS-MG1Ø-Ø-ST12	#	1	STACK MODULE (H217B)	
X						D-BS-MG1Ø-Ø-SI1Ø	#	1	16K SENSE/INHIBIT (G114)	
X						D-BS-MG1Ø-Ø-SI11	#	1	16K SENSE/INHIBIT (G114)	
X						D-BS-MG1Ø-Ø-SI12	#	1	16K SENSE/INHIBIT (G114)	
X						D-BS-MG1Ø-Ø-SI13	#	1	16K SENSE/INHIBIT (G114)	
X						D-BS-MG1Ø-Ø-SI14	#	1	16K SENSE/INHIBIT (G114)	
X						D-BS-MG1Ø-Ø-SI15	#	1	16K SENSE/INHIBIT (G114)	
X						D-BS-MG1Ø-Ø-SI16	#	1	16K SENSE/INHIBIT (G114)	
X						D-MU-MG1Ø-Ø-MUAF	#	1	MODULE UTILIZATION	
X						D-MU-MG1Ø-Ø-MUHL	#	1	MODULE UTILIZATION	
X						D-CS-M8588-Ø-CHKØ	#	1	PARITY CHECK	
X						D-CS-M8588-Ø-CHK1	#	1	PARITY CHECK	
X						D-CS-M8588-Ø-CHK2	#	1	PARITY CHECK	
X						D-CS-M8591-Ø-ADRØ	#	1	ADDRESS RECEIVER	
X						D-CS-M8591-Ø-ADR1	#	1	ADDRESS RECEIVER	
X						D-CS-M8591-Ø-ADR2	#	1	ADDRESS RECEIVER	
X						D-CS-M8591-Ø-ADR3	#	1	POWER AND GROUND	
X						D-CS-M8592-Ø-PADØ	#	1	MG1Ø PORT ADDRESS	
X						D-CS-M8592-Ø-PAD1	#	1	MG1Ø PORT ADDRESS	
X						D-CS-M8592-Ø-PAD2	#	1	MG1Ø PORT ADDRESS	
X						D-CS-M8592-Ø-PAD3	#	1	MG1Ø PORT ADDRESS	

CUSTOMER PRINT SET CODES

X = PRINT OF DOCUMENT INCLUDED IN PRINT SET
C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT
S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED

TITLE		SIZE	CODE	NUMBER	REV
CORE MEMORY (MG1Ø)	SHEET 6 OF 14	B	DD	MG1Ø-Ø	D

DRB 108

DEC 16-(325)-1062-2B-R972

CUSTOMER PRINT SET					ELECTRICAL						CUSTOMER PRINT SET					ELECTRICAL					
				MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE					MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
X					1	D-CS-M8593-Ø-DRØ	#	1	MG1Ø DATA REGISTER		X					45	D-CS-H744-Ø-1	#	1	CIRCUIT SCHEMATIC H744	
X						D-CS-M8593-Ø-DR1	#	1	MG1Ø DATA REGISTER											
X						D-CS-M8593-Ø-DR2	#	1	MG1Ø DATA REGISTER											
X						D-CS-M8593-YA-ARØ	#	1	MG1Ø ADDRESS REGISTER											
X						D-CS-M8593-YA-AR1	#	1	MG1Ø ADDRESS REGISTER											
X						D-CS-M8593-YA-AR2	#	1	MG1Ø ADDRESS REGISTER											
X						D-CS-M8594-Ø-DATØ	#	1	MG1Ø DATA TRANSCEIVER											
X						D-CS-M8594-Ø-DAT1	#	1	MG1Ø DATA TRANSCEIVER											
X						D-CS-M8594-Ø-DAT2	#	1	MG1Ø DATA TRANSCEIVER											
X						D-CS-G728-YA-1	#	1	JUMPER CARD		X					46	E-CS-H754-Ø-1	#	2	CIRCUIT SCHEMATIC H754	
X						B-CS-M9Ø1-Ø-1	#	1	FLEXPRINT CABLE CONNECTOR											
X						C-CS-M947-Ø-1	#	1	KI-1Ø INDICATOR DRIVER											
X						C-CS-M948-Ø-1	#	1	KI-1Ø INDICATOR BOARD											
X						D-CS-M9ØØ5-Ø-TRN1	#	1	SBUS TERMINATOR											
X						D-CS-M9Ø11-Ø-1	#	1	CABLE CONNECTOR											
X						D-IC-MG1Ø-Ø-MB1	#	1	MEM BUS INTERFACE											
X						D-IC-MG1Ø-Ø-PW	#	4	AC-DC POWER WIRING MG1Ø											
X						A-PL-MG1Ø-Ø ACL	#	1	ACCESSORY LIST											
X						K-WL-MG1Ø-Ø-CONT	#	1	WIRED ASSY (CONTROL)		X					47	D-CS-H77Ø-Ø-1	#	1	CIRCUIT SCHEMATIC H77Ø	
X						K-WL-MG1Ø-Ø-STK	#	1	WIRED ASSY (STACK)											
X						D-CS-5411086-Ø-1	#	4	POWER LINE MONITOR											
X						A-SP-MC1Ø-G-AAP	#	3	MC1Ø-G ADD. PORT OPTION											
X						A-SP-PDP1Ø-Ø-MEMS	#	2	ACCEPTANCE TEST MEMORY SYSTEM											
						A-WT-7010225-0	#	1	A-WT-REVISION STATUS											
						A-WT-7010235-0	#	1	A-WT-REVISION STATUS											
						D-IA-7413405-0-0	#	1	PANEL FILLER H742Ø											
						D-SP-7012997-0-0	#	5	I.E.C. 435 SAFETY REGULATIONS		C					48	B-DD-857-0	#	2	857 POWER CONTROL	
						B-CP-MG1Ø-Ø-EC	#	1	EXTERNAL COMPONENTS LIST								C-AD-7013988-0-0			POWER CORD ASSY	
X					32	D-UA-5411446-0-0	#	2	SWITCH PLATE ASSY (SHTS 1,2)								A-DC-3612675 -0-0			CAUTION DECAL	
X						D-CS-5411446-0-1	#	1	MG1Ø SWITCH BOARD											
															X		A-SP-MG1Ø-Ø-CP	#	39	CHECKOUT PROCEDURE	
															X		A-SP-MG1Ø-Ø-OCP	#	9	ON-LINE CHECKOUT PROCEDURE	
X					44	D-CS-H742Ø-Ø-1	#	1	CIRCUIT SCHEMATIC H742Ø											

CUSTOMER PRINT SET CODES

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TITLE: CORE MEMORY (MG1Ø)

SHEET 7 OF 14 | SIZE: B | CODE: DD | NUMBER: MG1Ø-Ø | REV: D

DRB 108

DEC 16-(325)-1062-2B-R972

CUSTOMER PRINT SET	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
			MECHANICAL				
X		1	D-UA-MG1Ø-Ø-Ø	#	3	CORE MEMORY	
X			A-PL-MG1Ø-Ø-Ø	#	5	CORE MEMORY (P.L.)	
			C-IA-7415246-Ø-Ø	#	1	SUPPORT, PWR SUPPLY, RIGHT	
			C-MD-7410840-0-0	#	1	SUPPORT, PWR SUPPLY, LEFT	
			C-MD-7412652-0-0	#	1	SPACER COVER	
			D-IA-7412844-0-0	#	1	SUPPORT, SWITCH PLATE	
			D-MD-7412816-0-0	#	1	BAR, SUPPORT, I/O CONN PLATE	
X			D-AD-7010995-0-0	#	1	CABLE SET	
			D-IA-7010805-0-0	#	1	A/C WIRING HARNESS #1	
			D-IA-7010806-0-0	#	1	A/C WIRING HARNESS #2	
			J-IA-7010807-0-0	#	1	D/C HARNESS	
			D-MD-7409582-0-0	#	1	PANEL FILLER, REAR MTG DOOR	
			C-IA-7409870-0-0	#	1	SHIPPING BRKT (IND PANEL)	
			B-DC-7413649-0-0	#	1	NAME PLATE DECAL (MG1Ø)	
			C-IA-7008288-0-0	#	1	REMOTE TURN ON CABLE	
			A-DC-7412561-0-0	#	1	CAUTION LABEL (PWR INTERLOCK)	
		2	E-AD-7008554-4-0	#	4	CABINET ASSY	
			C-PL-7008554-4-0	#	1	CABINET ASSY (P.L.)	
			D-IA-7409181-0-0	#	1	CHANNEL, INDICATOR CABLE	
			D-IA-7409268-0-0	#	2	CABLE SUPPORT	
			D-PS-1210568-0-0	#	9	SKID (1 BAY)	

CUSTOMER PRINT SET	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
			MECHANICAL				
		3	E-UA-H955-A-Ø	#	4	H955-A FRAME	
			D-DI-H955-Ø-1	#	1	H955 DWG INDEX LIST	
		4	A-PL-H952-D-Ø	#	1	H952-D PANEL FASTENER (P.L.)	
			D-DI-H952-Ø-1	#	1	H952 DWG INDEX LIST	
		5	A-PL-H952-E-Ø	#	1	H952-E CASTER SET (P.L.)	
			D-DI-H952-Ø-1	#	1	H952 DWG INDEX LIST	
		6	A-PL-H952-F-Ø	#	1	H952-F LEVELER SET	
			D-DI-H952-Ø-1	#	1	H952 DWG INDEX LIST	

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TITLE: CORE MEMORY (MG1Ø)

SHEET 8 OF 14

SIZE	CODE	NUMBER	REV
B	DD	MG1Ø-Ø	D

DRB 108

DEC 16-(325)-1062-2B-R972

CUSTOMER PRINT SET	MFG. SET	MECHANICAL FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
		7	B-UA-H95Ø-S-Ø	#	1	H95Ø-S FILTER	
			D-DI-H95Ø-Ø-1	#	1	H95Ø DWG INDEX LIST	
		8	E-UA-H955-DA-Ø	#	1	H955-D EQUIP MTG DOOR R.H.	
			A-PL-H955-DA-Ø	#	2	H955-D EQUIP MTG DOOR R.H.(PL)	
			D-DI-H955-Ø-1	#	1	H955 DWG INDEX LIST	
X		9	E-IA-7010290-0-0	#	1	COOLING ASSY MEMORY/LOGIC	
			E-AD-7010228-0-0	#	1	CHASSIS WELD., COOLING ASSY	
			D-MD-7412654-0-0	#	1	DOOR, LEFT	
			D-MD-7512655-0-0	#	1	DOOR, RIGHT	
			E-IA-7411807-0-0	#	1	BRACKET, MICROSWITCH	
			D-IA-7010360-1-0	#	1	CENTER SUPPORT ASSY, TOP	
			D-IA-7010360-2-0	#	1	CENTER SUPPORT ASSY, BOTTOM	

CUSTOMER PRINT SET	MFG SET	MECHANICAL FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
		10	D-UA-H952-AC-Ø	#	2	H952-A END PANEL	
			A-PL-H952-AC-Ø	#	1	H952-A END PANEL (P.L.)	
			D-DI-H952-Ø-1	#	1	H952 DWG INDEX LIST	
		11	D-UA-H951-HJ-Ø	#	4	H951-H SHORT DOOR ASSY	
			A-PL-H951-HJ-Ø	#	1	H951-H SHORT DOOR ASSY (P.L.)	
			D-DI-H951-Ø-1	#	1	H951 DWG INDEX LIST	
		12	D-UA-H955-BA-Ø	#	2	H955-B 30" FULL DOOR R.H.	
			A-PL-H955-BA-Ø	#	1	H955-B 30" FULL DOOR R.H.(PL)	
			D-DI-H955-Ø-1	#	1	H955 DWG INDEX LIST	
X		13	E-AD-7010359-0-0	#	1	FAN ASSY	
			E-IA-7410929-0-0	#	1	FAN HSG, 4 FANS	

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TITLE		SIZE	CODE	NUMBER	REV
CORE MEMORY (MG1Ø)	SHEET 9 OF 14	B	DD	MG1Ø-Ø	D

DRB 108

DEC 16-(325)-1062-2B-R972

CUSTOMER PRINT SET				MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
						MECHANICAL				
X					14	D-AD-7010358-0-0	#	1	VANE SWITCH ASSY	
						D-MD-7412817-0-0	#	1	BRACKET, SWITCH	
					15	E-AD-7010235-0-0	#	1	LOGIC ASSY STACK	
						D-MD-7412000-0-0	#	1	BAR, BACKPLANE, TOP & BOTTOM	
					16	E-AD-7009422-0-0	#	1	BACKPLANE ASSY	
						C-MD-7411947-0-0	#	1	BAR, BACKPLANE	
						D-MD-7411611-0-0	#	1	BAR, LOGIC FRAME (CASTING)	
						C-MD-7411399-1-0	#	1	SPACER, BACKPLANE	
					17	D-CS-5410609-0-1	#		BACKPLANE (TOP)	
						5010608	#	-	ETCHED CIRCUIT BOARD	
						K-CO-5410609-0-4	#	-	X-Y COORDINATE HOLE LOC.	
						D-AH-5410609-0-5	#	1	ASSY DRILLING HOLE LAYOUT	
						B-MH-5410609-0-6	#	1	MODULE HISTORY DWG	

CUSTOMER PRINT SET				MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
						MECHANICAL				
						FIXTURE DWG REF.				
						E-MD-9605685-0-0	#	1	FIXTURE MTG BLOCK & BAR	
					18	D-CS-5410611-0-1	#		BACKPLANE (BOTTOM)	
						5010610	#	-	ETCHED CIRCUIT BOARD	
						K-CO-5410611-0-4	#	-	X-Y COORDINATE HOLE LOC.	
						D-AH-5410611-0-5	#	1	ASSY DRILLING HOLE LAYOUT	
						B-MH-5410611-0-6	#	1	MODULE HISTORY DWG	
					19	D-IA-5009956-0-0	#	1	GND PLANE PROTECTION SHEET	
						D-SS-5009956-0-1	#	1	SILK SCREEN	
					20	D-AD-7010225-0-0	#	1	LOGIC ASSY CONTR/I/O ASSY	

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TITLE		SIZE	CODE	NUMBER	REV
CORE MEMORY (MG1Ø)	SHEET 10 OF 14	B	DD	MG1Ø-Ø	D

CUSTOMER PRINT SET					MECHANICAL						
				MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
					21	D-AD-7010227-0-0	#	1	LOGIC ASSY CONTROL	
						D-MD-7410502-2-0	#	1	BAR, LOGIC FRAME, TOP	
						C-MD-7412553-0-0	#	1	BAR, LOGIC FRAME, SIDE	
						D-MD-7410502-1-0	#	1	BAR, LOGIC FRAME, BOTTOM	
						A-DC-5309970-0-0	#	1	DECAL	
					22	E-AD-7010373-0-0	#	1	GROUND PLANE ASSY (H-J)	
						C-MD-7408967-2-0	#	1	STRIP INSULATOR	
						D-MD-7410501-0-0	#	1	BAR, MTG LOGIC	
					23	D-IA-5009785-1-0	#	2	GROUND PLANE	
						D-SS-5009785-0-1	#	1	SILK SCREEN	
					24	D-IA-5009956-0-0	#	1	GND PLANE PROTECTION SHEET	
						D-SS-5009956-0-1	#	1	SILK SCREEN	

CUSTOMER PRINT SET					MECHANICAL					
				MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
					25	E-AD-7010224-0-0	#	1	GROUND PLANE ASSY (K-L)	
						C-MD-7408967-2-0	#	1	STRIP INSULATOR	
						D-MD-7410501-0-0	#	1	BAR, MTG LOGIC	
					26	D-IA-5009785-1-0	#	2	GROUND PLANE	
						D-SS-5009785-0-1	#	1	SILK SCREEN	
					27	D-IA-5009956-0-0	#	1	GND PLANE PROTECTION SHEET	
						D-SS-5009956-0-1	#	1	SILK SCREEN	
					28	D-AD-7010226-0-0	#	1	I/O CONN PANEL ASSY	
						E-IA-7412551-0-0	#	1	I/O CONN PANEL	
						A-DC-7409872-1	#	1	DECAL	

CUSTOMER PRINT SET CODES		TITLE		SIZE	CODE	NUMBER	REV
	X = PRINT OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED	CORE MEMORY (MG1Ø)	SHEET 11 OF 14	B	DD	MG1Ø-Ø	D

DRB 108

DEC 16-(325)-1062-2B-R972

CUSTOMER PRINT SET	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
			FIXTURE DWG REF.				
			E-IA-9606304-0-0	#	1	I/O CONN LOCATING FIXTURE	
			J-IA-9606305-0-0	#	1	WIRE WRAP PALLET	
		29	C-AD-7008711-0-0	#	1	I/O CONN GND PLANE ASSY	
			A-SP-MG1Ø-Ø-PSB	#	6	PROCESS SHEET	
			FIXTURE DWG REF.				
			E-AD-9305449-0-0	#	1	OVEN FIXTURE I/O CONN	
			E-IA-9606304-0-0	#	1	I/O CONN GND LOC PLATE	
			B-MD-9305448-0-0	#	1	PIN GND PLANE LOC	
		30	D-IA-5009784-0-0	#		GROUND PLANE	
			A-SP-7665161-0-0	#		PROCESS SPEC	

CUSTOMER PRINT SET	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
		31	D-MD-5010122-0-0	#	2	GND PLANE PROTECTION SHEET	
			D-SS-5010122-0-1	#	1	SILK SCREEN	
		32	D-UA-5411446-0-0	#	5	SWITCH PLATE ASSY	
		33	C-IA-7412840-0-0	#	1	SWITCH PLATE NO. 1	
			A-SS-7412840-0-1	#	1	SILK SCREEN	
		34	C-IA-7412841-0-0	#	1	SWITCH PLATE NO. 2	
			A-SS-7412841-0-1	#	1	SILK SCREEN	

MECHANICAL

CUSTOMER PRINT SET CODES

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TITLE: CORE MEMORY (MG1Ø)

SHEET 12 OF 14 | SIZE: B | CODE: DD | NUMBER: MG1Ø-Ø | REV: D

DPB 108

DEC 16-(325)-1062-2B-R972

MECHANICAL

CUSTOMER PRINT SET	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
		35	C-IA-7412842-0-0	#	1	SWITCH PLATE NO. 3	
			A-SS-7412842-0-1	#	1	SILK SCREEN	
		36	C-IA-7412843-0-0	#		SWITCH PLATE NO. 4	
			A-SS-7412843-0-1	#		SILK SCREEN	
X		37	E-AD-7006671-7-0	#	1	INDICATOR PANEL ASSY 30 IN.	
			A-PL-7006671-7-0	#	2	INDICATOR PANEL ASSY (P.L.)	
			E-IA-7407810-0-0	#	1	PLATE, BEZEL MTG #1	
			C-MD-7407807-0-0	#	1	SLIDE	
			C-MD-7407820-1-0	#	1	SUPPORT SLIDE	
			E-MD-7408029-0-0	#	1	SUPPORT 30 IN. INDICATOR	
			B-IA-7407822-0-0	#	1	BRKT LOCKING	
			A-DC-7409408-0-0	#	1	DECAL "LAMP TEST" WHT/CLR	
			A-II-7006671-0-4	#	1	INSPECTION PROCEDURE	

MECHANICAL

CUSTOMER PRINT SET	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
		38	D-IA-7407821-0-0	#	1	BEZEL, IND. MACH	
			A-PL-7407821-0-0	#	1	BEZEL, IND. MACH (P.L.)	
			B-MD-7408028-0-0	#	1	HINGE, IND. BEZEL	
		39	E-IA-7407850-7-0	#	1	PANEL FRONT	
			D-SS-7407850-0-9	#	1	SILK SCREEN FRONT (WHT)	
			D-SS-7407850-0-10	#	1	SILK SCREEN REAR (BLK)	
		40	D-CS-5409123-0-1	#	1	INDICATOR LIGHT BOARD	
			K-CO-5409123-0-4	#	1	X-Y HOLE LOCATIONS	
			D-MH-5409123-0-6	#	1	MODULE ECO HISTORY	
		41	E-IA-5009122-0-0	#	1	ETCH CIRCUIT BOARD	
			PC-5009122-0-1	#	1	PRINTED CIRCUIT LAYOUT	

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TITLE: CORE MEMORY (MG1Ø)

SHEET 13 OF 14 | SIZE: B | CODE: DD | NUMBER: MG1Ø-Ø | REV: D

DRB 108

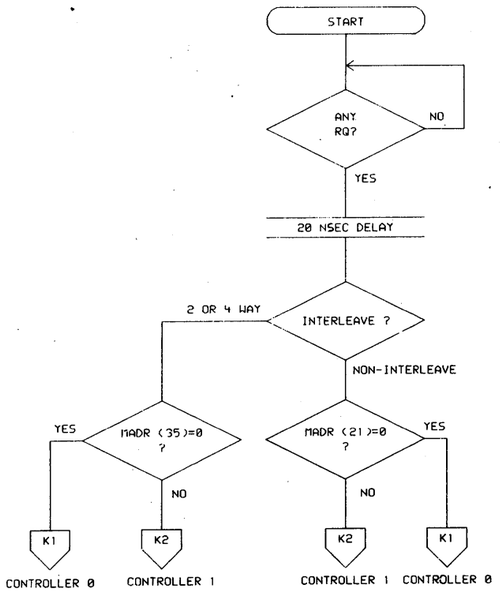
DEC 16-(325)-1062-2B-R972

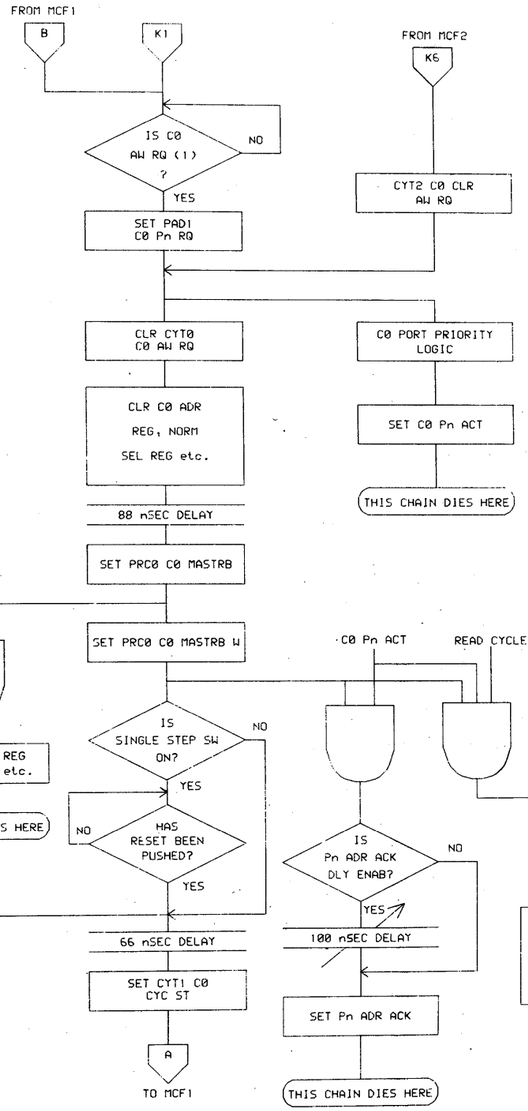
CUSTOMER PRINT SET						MECHANICAL							CUSTOMER PRINT SET						MECHANICAL					
				MFG.	SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE						MFG	SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
						42	D-UA-H955-LA-Ø	#	1	H955-L LOGO			X						46	E-CS-H754-Ø-1	#	2	PWR SUPPLY H754	
							A-PL-H955-LA-Ø	#	1	H955-L LOGO (P.L.)										B-DD-H754-Ø	#	3	DWG DIRECTORY	
							D-DI-H955-Ø-1	#	1	H955 DWG INDEX LIST										A-SP-H754-Ø-8	#	3	MFG SPEC	
						43	D-IA-7409224-2-0	#	1	H955-L LOGO			X						47	E-UA-H77Ø-Ø-Ø	#	1	REGULATOR H77Ø	
							A-PL-7409224-2-0	#	1	H955-L LOGO (P.L.)			X							A-PL-H77Ø-Ø-Ø	#	1	REGULATOR H77Ø (P.L.)	
							C-SS-7409224-0-2	#	1	SILK SCREEN			X							D-UA-5411207-0-0	#	2	+15V REGULATOR	
																				B-DD-H77Ø-Ø	#	2	DWG DIRECTORY	
																				A-SP-H77Ø-Ø-1	#	4	MFG SPEC	
X						44	E-UA-H742Ø-A-Ø	#	2	PWR SUPPLY H742Ø-A (115V AC)														
X							A-PL-H742Ø-A-Ø	#	2	PWR SUPPLY H742Ø-A(115V AC)(PL)														
																			48	D-UA-857-0-0	#	3	POWER CONTROL 857	
																				B-DD-857-0	#	3	DWG DIRECTORY	
													X							A-PL-857-0-0	#	4	POWER CONTROL 857 (P.L.)	
X						45	E-UA-H744-Ø-Ø	#	1	PWR SUPPLY H744														
							B-DD-H744-Ø	#	2	DWG DIRECTORY														
							A-SP-H744-Ø-8	#	2	MFG SPEC														

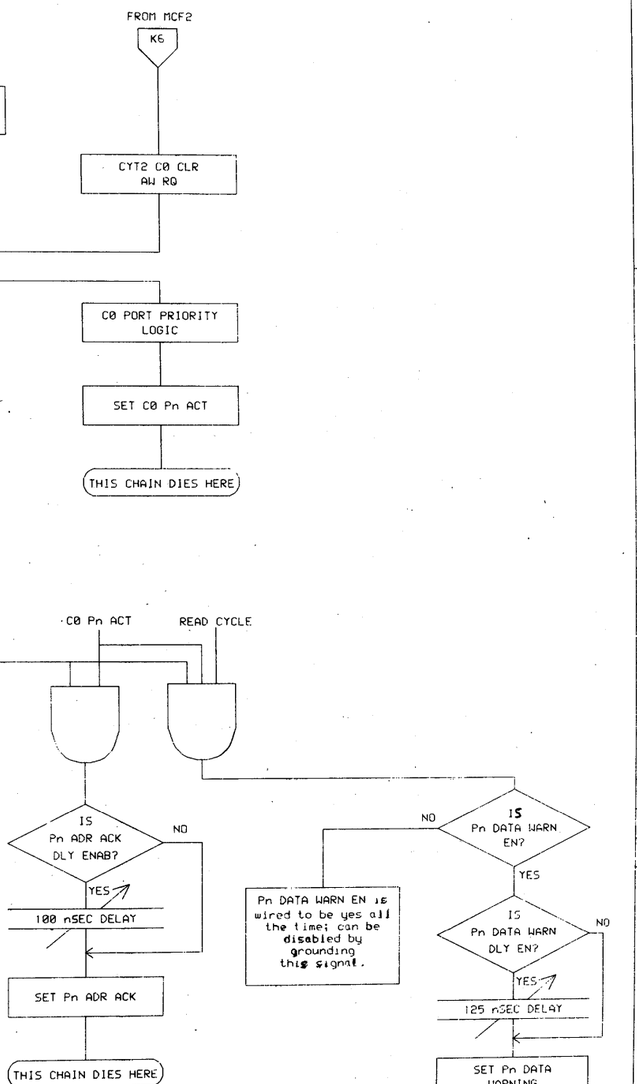
CUSTOMER PRINT SET CODES	X = PRINT OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED	TITLE	SHEET	SIZE	CODE	NUMBER	REV
		CORE MEMORY (MGlØ)	14 OF 14	B	DD	MGlØ-Ø	D

DRB 108

DEC 16-(325)-1062-2B-R972







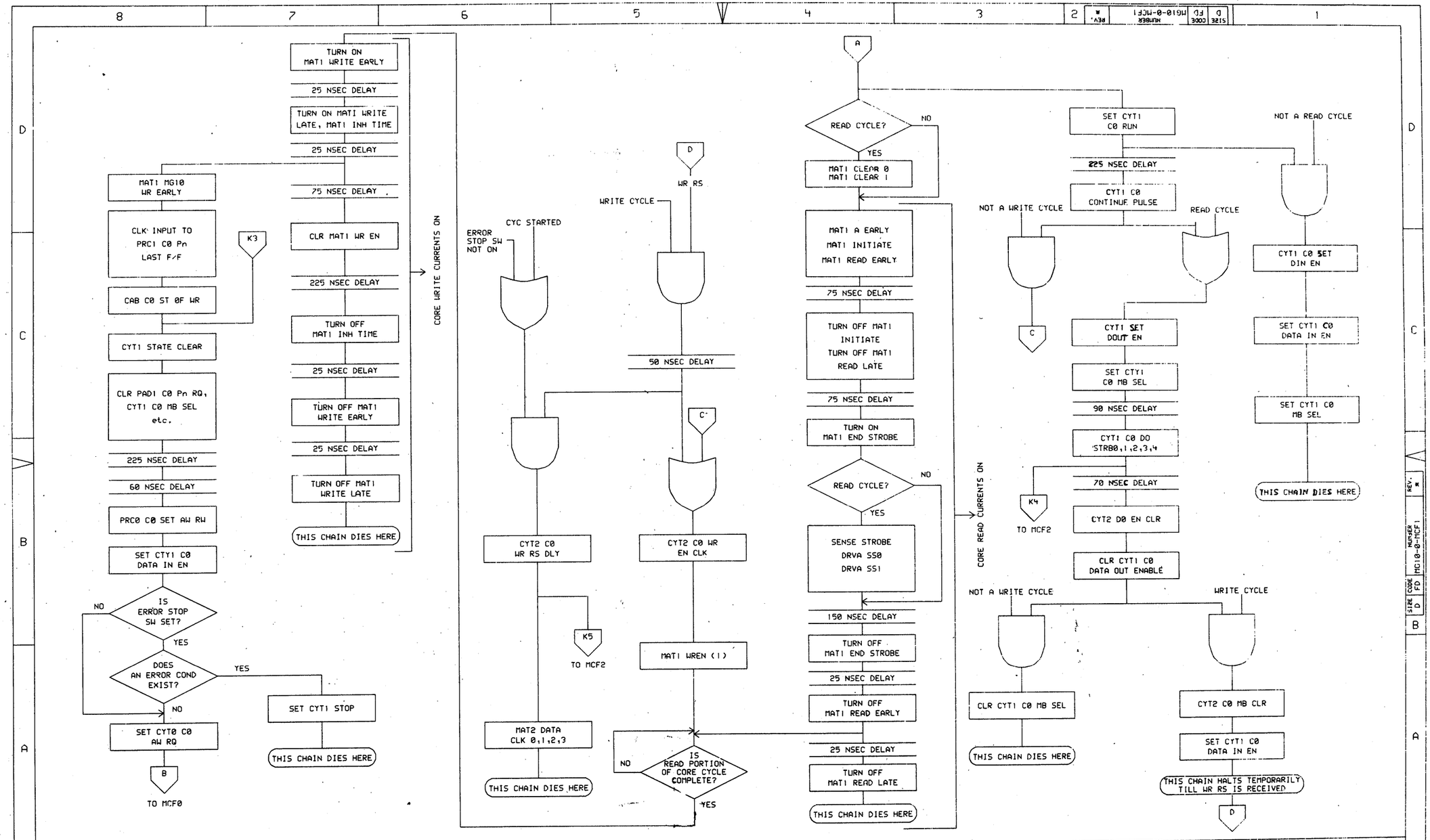
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. W. Hamlyn DATE 5-1-75
CHK D. [illegible] DATE 5/9/75
ENG. J. Chen DATE 5-15-75
BOARD LOCATION:
SHEET 1 OF 1
MCF0(4,22) 14-MAY-75 10:30
NEXT HIGHER ASSEMBLY: B-DD-MG10-0
FIRST USED ON OPTION/MODEL: MG10

TITLE. MEMORY CYCLE FLOW

SIZE	CODE	NUMBER	REV.
D	FD	MG10-0-MCF0	*



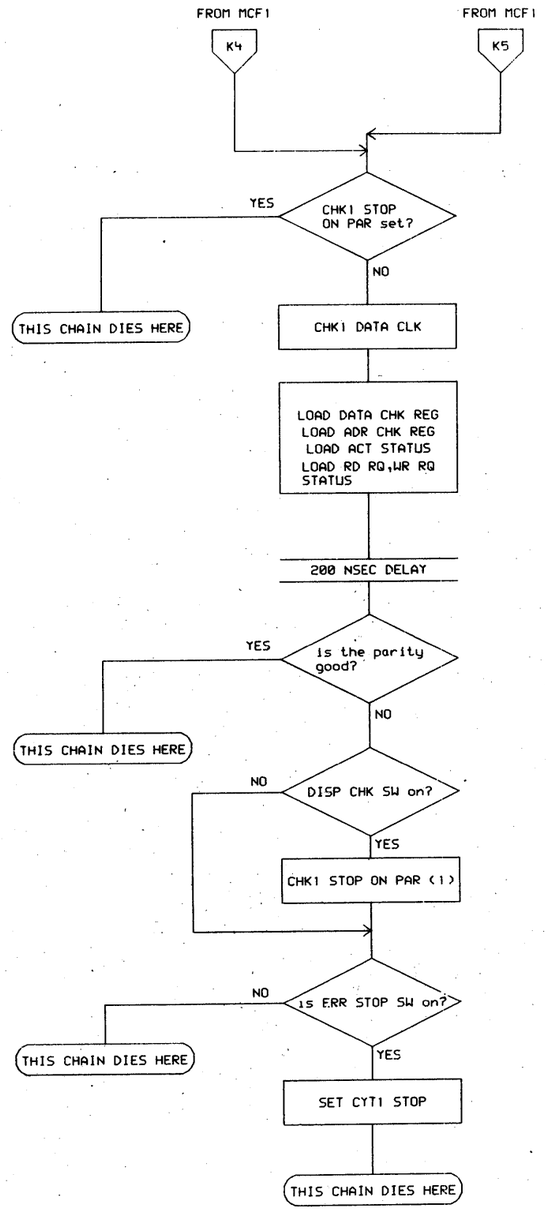
REVISIONS		
CHK	CHANGE NO.	REV

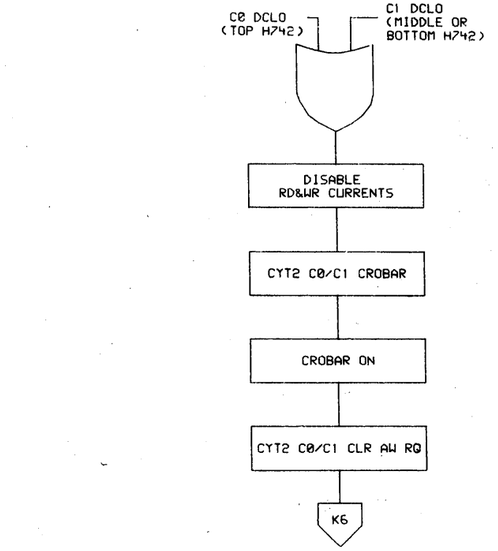
digital

DRN. W. Hamlin DATE 5/9/75
CHK D. Dd DATE 5/9/75
ENG. J. J. Chin DATE 5-16-75
BOARD LOCATION:
SHEET 1 OF 1
MCF1[4,22] 14-MAY-75 10:37
FIRST USED ON OPTION/MODEL: MG10
NEXT HIGHER ASSEMBLY: B-DD-MG10-0

TITLE: MEMORY CYCLE FLOW

SIZE	CODE	NUMBER	REV.
D	FD	MG10-0-MCF1	*





REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN W. Hamblin DATE 5/7/1975
CHK'D [illegible] DATE 5/19/75
MCF2[4,22] 14-MAY-75 11:06
FIRST USED ON OPTION/MODEL: MG10

ENG. D. J. Chen DATE 5-16-75
BOAR LOCATION:
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-MG10-0

TITLE: MEMORY CYCLE FLOW

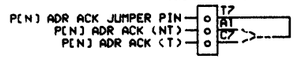
SIZE	CODE	NUMBER	REV.
D	FD	MG10-0-MCF2	*

SIZE	CODE	NUMBER	REV.
D	FD	MG10-0-MCF2	*

		WIRE	FROM	TO	USE
NOTE 1.	REQUEST CYCLE JUMPER SELECTION	JUMPER	T7	A4	FOR KA TYPE BUS OR MA10-TA TESTER
		JUMPER	T7	B5	FOR KI,KL TYPE BUS ON WHICH THE MG10 IS NOT THE FASTEST * MEMORY ON THAT BUS
		JUMPER	T7	A5	FOR KI,KL TYPE BUS ON WHICH THE MG10 IS THE FASTEST MEMORY ON THAT BUS * FASTEST MEMORY IS DEFINED AS THE FASTEST TIME FROM REQ CYC TO RD RS ASSUMING THE MEMORY WAS IDLE
NOTE 2.	ADR ACK JUMPER SELECTION	JUMPER	T7	A1	FOR KA, KL TYPE BUS OR MA10-TA TESTER
		JUMPER	T7	C7	FOR KI TYPE BUS

QUICKLATCH CONNECTOR ROW M (UPPER ROW)

QUICKLATCH CONNECTOR ROW N (LOWER ROW)



NOTE 3. DATA WARNING DELAYED AND ADR ACK (T) DELAYED

NOTE 3A. FOR KA TYPE MEMORY BUSES

DATA WARNING IS NOT USED ON KA TYPE MEMORY BUSES AND MUST BE DISABLED.

NOTE 3B. FOR KI TYPE MEMORY BUSES

WHEN ONLY MG10 MEMORIES ARE CONNECTED ONTO A KI TYPE MEMORY BUS,DATA WARNING IS SENT UNDELAYED TO THE BUS.

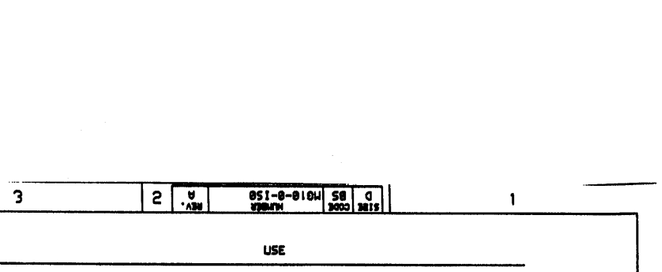
WHEN MG10 MEMORIES ARE CONNECTED ONTO A KI TYPE MEMORY BUS ON WHICH OTHER MEMORIES OF USUALLY DIFFERENT SPEEDS ARE ALSO ATTACHED,DATA WARNING MUST BE DELAYED IN THE SLOWER MEMORIES SUCH THAT THE TIME FROM DATA WARNING DELAYED TO RD RS IS EXACTLY T1. T1 IS DEFINED AS THE TIME FROM DATA WARNING TO RD RS IN THE FASTEST MEMORY AND IN THIS FASTEST MEMORY DATA WARNING IS USUALLY SENT UNDELAYED.

ADR ACK (T) MUST ALSO BE DELAYED FOR THE THIRD FASTEST MEMORY SUCH THAT THE TIME FROM ADR ACK (T) DELAYED TO RD RS IS EXACTLY T2. T2 IS DEFINED AS THE TIME FROM ADR ACK (T) UNDELAYED TO RD RS IN THE SECOND FASTEST MEMORY.

P(N) DATA WARN IS USUALLY ENABLED BY P(N) DATA WARN EN H BEING HELD HIGH ON THE M8591 ADDRESS RECEIVER MODULE OF THE PORT IN QUESTION. FOR KA TYPE MEMORY BUSES,P(N) DATA WARN IS DISABLED BY GROUNDING THE FOLLOWING PINS:

L39E2	FOR	PORT 0
L32E2	FOR	PORT 1
L38E2	FOR	PORT 2
L31E2	FOR	PORT 3
L37E2	FOR	PORT 4
L30E2	FOR	PORT 5
L36E2	FOR	PORT 6
L29E2	FOR	PORT 7

→ REFER TO DWG NO. D-CS-M8591-0-ADR2



P(N) DATA WARN IS USUALLY NOT DELAYED BY P(N) DATA WARN DLY EN L BEING HELD HIGH ON THE M8591 ADDRESS RECEIVER MODULE OF THE PORT IN QUESTION. TO DELAY P(N) DATA WARN,THE FOLLOWING PINS ARE GROUNDED:

L39U2	FOR	PORT 0
L32U2	FOR	PORT 1
L38U2	FOR	PORT 2
L31U2	FOR	PORT 3
L37U2	FOR	PORT 4
L30U2	FOR	PORT 5
L36U2	FOR	PORT 6
L29U2	FOR	PORT 7

→ REFER TO DWG NO. D-CS-M8591-0-ADR2

ADJUST THE HIGHER OF THE TWO VARIABLE DELAYS LOCATED ON THE M8591 TO OBTAIN T1.

REVISIONS		
CHK	CHANGE NO.	REV
J.F.	MG10-00005	A
R.Bryant 15 Nov 76		
D.CHIN		
11-18-76		

digital

DRN: T. Landry 11-APR-76 11:34
CHK: [illegible]
ISO_DRAW_1.127
FIRST USED ON OPTION/MODEL: MG10

DATE 11-NOV-76 | ENG. J.J. Chin | DATE 11-12-76
DATE | BOARD LOCATION:
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-MG10-0

TITLE: INSTRUCTION SHEET 0

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-IS0	A

NOTE 3B. (CONTINUED)

USE

P[N] ADR ACK (T) IS USUALLY NOT DELAYED BY P[N] ADR ACK DLY EN L BEING HELD HIGH ON THE M8591 ADDRESS RECEIVER MODULE OF THE PORT IN QUESTION. TO DELAY P[N] ADR ACK (T),THE FOLLOWING PINS ARE GROUNDED:

L39S1	FOR	PORT 0
L32S1	FOR	PORT 1
L38S1	FOR	PORT 2
L31S1	FOR	PORT 3
L37S1	FOR	PORT 4
L30S1	FOR	PORT 5
L36S1	FOR	PORT 6
L29S1	FOR	PORT 7

→ REFER TO DWG.NO D-CS-M8591-0-ADR2

ADJUST THE LOWER OF THE TWO VARIABLE DELAYS LOCATED ON THE M8591 TO OBTAIN T2.

NOTE 3C. FOR KL TYPE MEMORY BUSES

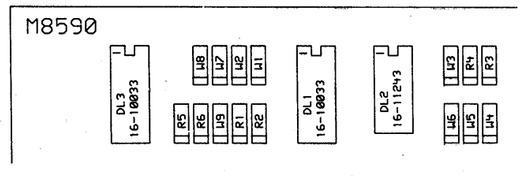
DATA WARNING AND ADR ACK (T) ARE ADJUSTED AS DESCRIBED FOR KI TYPE MEMORY BUSES EXCEPT T1 IS ADJUSTED FOR 250 ±5 NANOSECONDS.

NOTE 4. DELAY CHECK PROCEDURE WHEN REPLACING M8590

SET UP

DO REPEATED READ CYCLES AT A REPETITION RATE NO FASTER THAN EVERY TWO MICROSECONDS

NOTE 4A. FOR CONTROL 0
SYNC INTERNAL NEGATIVE WITH CH. 1 ON CYT0 C0 AW RQ H ON H28M2 AND CH. 2 ON PRC0 C0 MA STRBW H ON L33H2.
MEASURE FROM FALLING EDGE OF CH. 1 TO RISING EDGE OF CH. 2.
DELAY IS DETERMINED BY SELECTION OF ONE OF THREE JUMPERS W1,W2,W3.
W2 SHOULD BE THE SELECTED JUMPER. TYPICAL DELAY IS 88 NANOSECONDS. IF DELAY IS LESS THAN 85 NANOSECONDS, SELECT JUMPER W1 INSTEAD. IF DELAY IS GREATER THAN 95 NANOSECONDS,SELECT JUMPER W3 INSTEAD.



NOTE 4B. FOR CONTROL 1
SYNC INTERNAL NEGATIVE WITH CH. 1 ON CYT0 C1 AW RQ H ON H29M2 AND CH. 2 ON PRC0 C1 MA STRBW H ON L34H2.
MEASURE FROM FALLING EDGE OF CH. 1 TO RISING EDGE OF CH. 2.
DELAY IS DETERMINED BY SELECTION OF ONE OF THREE JUMPERS W1,W2,W3.
W2 SHOULD BE THE SELECTED JUMPER. TYPICAL DELAY IS 88 NANOSECONDS. IF DELAY IS LESS THAN 85 NANOSECONDS, SELECT JUMPER W1 INSTEAD. IF DELAY IS GREATER THAN 95 NANOSECONDS,SELECT JUMPER W3 INSTEAD.

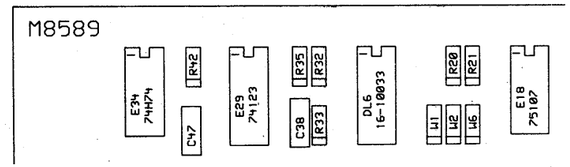
SAME

NOTE 5. DELAY CHECK PROCEDURE WHEN REPLACING M8589

NOTE 5A. FOR CONTROL 0
SYNC INTERNAL POSITIVE WITH CH. 1 ON PRC0 C0 MA STRBW H, J28E2 AND CH. 2 ON CYT1 C0 CAB CYC START H, J28K2. DELAY IS DETERMINED BY SELECTION OF ONE OF THREE JUMPERS W1,W2,W6. W2 SHOULD BE THE SELECTED JUMPER. MEASURE FROM RISING EDGE OF CH. 1 TO RISING EDGE OF CH. 2. DELAY SHOULD BE TYPICALLY 64 NANOSECONDS. IF DELAY IS LESS THAN 60 NANOSECONDS, SELECT JUMPER W1 INSTEAD. IF DELAY IS GREATER THAN 70 NANOSECONDS,SELECT JUMPER W6 INSTEAD.

MOVE CH. 1 TO CYT0 C0 M01 SEL H,J28M2 AS SHOWN ON PRINT CYT0 OF THE M8589 LOCATED IN HJ28. MEASURE FROM RISING EDGE OF CH. 1 TO RISING EDGE OF CH. 2. DELAY SHOULD BE EQUAL TO OR GREATER THAN 26 NANOSECONDS. IF LESS,SELECT JUMPER GIVING NEXT LONGER DELAY.

SAME



NOTE 5B. FOR CONTROL 1
SYNC INTERNAL POSITIVE WITH CH. 1 ON PRC0 C1 MA STRBW H, J29E2 AND CH. 2 ON CYT1 C1 CAB CYC START H, J29K2. DELAY IS DETERMINED BY SELECTION OF ONE OF THREE JUMPERS W1,W2,W6. W2 SHOULD BE THE SELECTED JUMPER. MEASURE FROM RISING EDGE OF CH. 1 TO RISING EDGE OF CH. 2. DELAY SHOULD BE TYPICALLY 64 NANOSECONDS. IF DELAY IS LESS THAN 60 NANOSECONDS, SELECT JUMPER W1 INSTEAD. IF DELAY IS GREATER THAN 70 NANOSECONDS,SELECT JUMPER W6 INSTEAD.

MOVE CH. 1 TO CYT0 C1 M01 SEL H,J29M2 AS SHOWN ON PRINT CYT0 OF THE M8589 LOCATED IN HJ29. MEASURE FROM RISING EDGE OF CH. 1 TO RISING EDGE OF CH. 2. DELAY SHOULD BE EQUAL TO OR GREATER THAN 26 NANOSECONDS. IF LESS,SELECT JUMPER GIVING NEXT LONGER DELAY.

SAME

REVISIONS

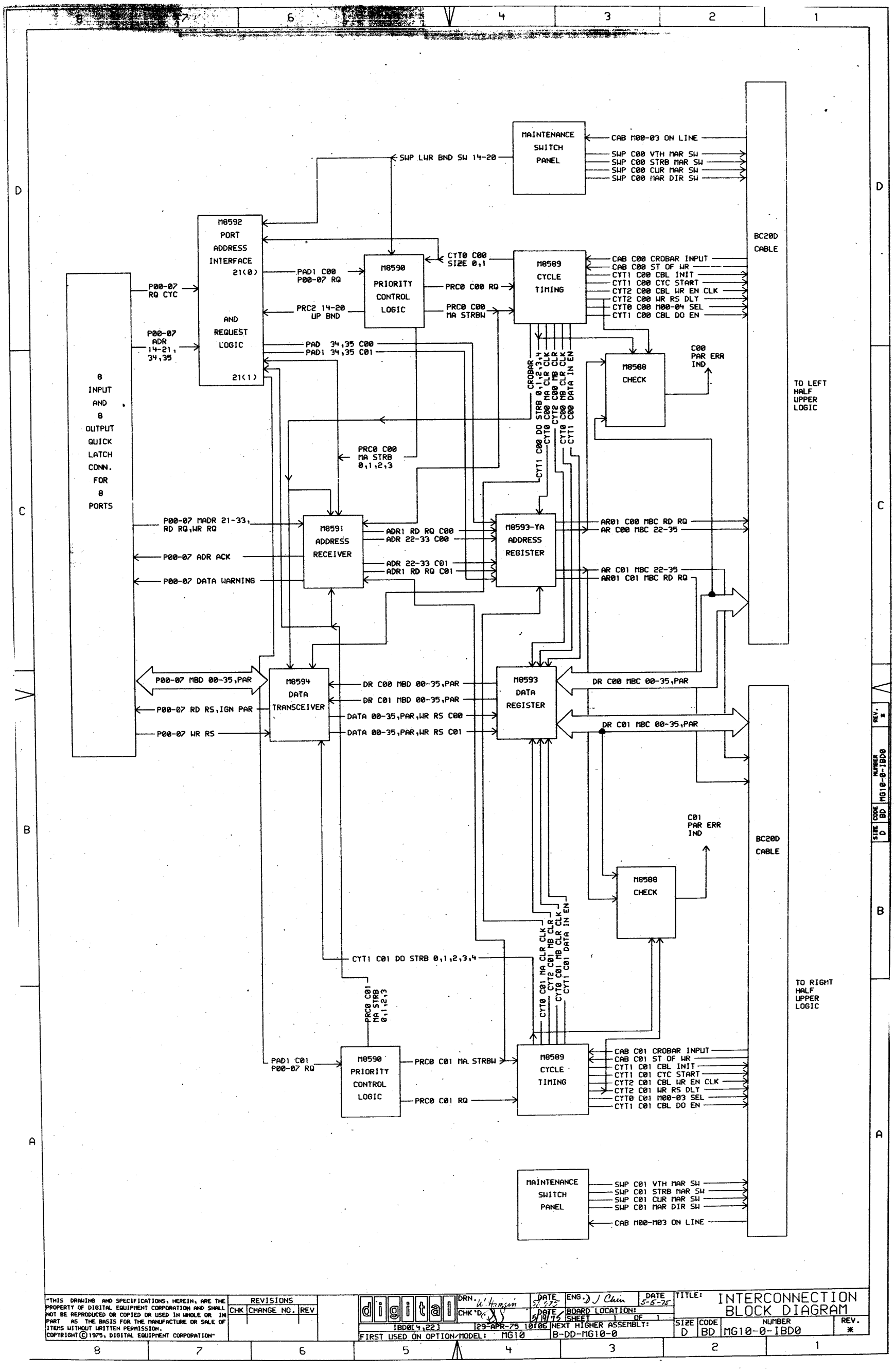
CHK	CHANGE NO.	REV

digital

DRN. W. Franklin DATE 5/14/75 ENG. D.J Chin DATE 5-2-75
CHK'D [illegible] DATE 5/14/75 BOARD LOCATION:
SHEET 1 OF 1
IS1[4,137] 30-APR-75 08:42 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MG10 B-DD-MG10-0

TITLE: INSTRUCTION SHEET 1

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-IS1	*



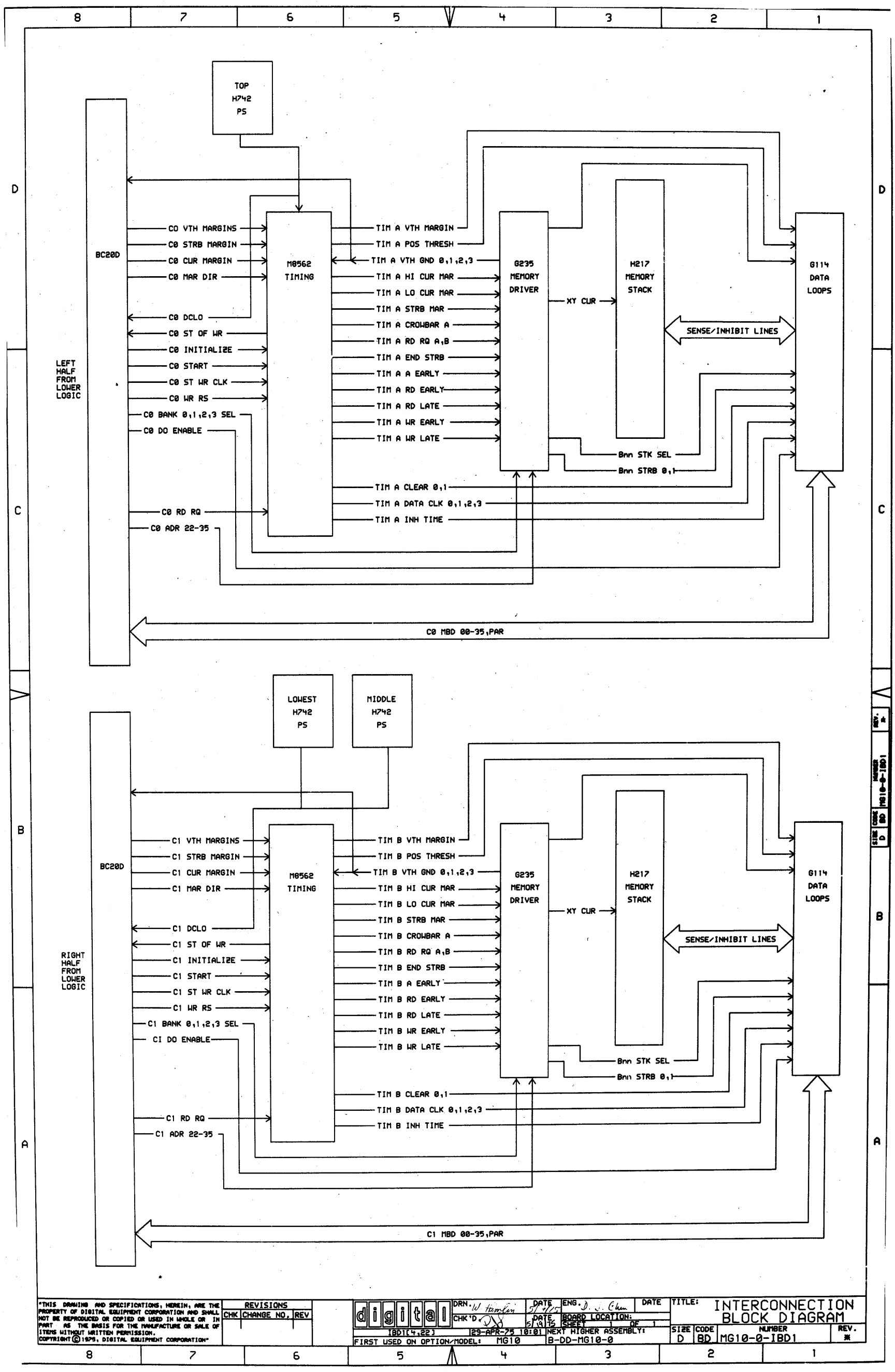
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. W. Hamzin DATE 5.19.75 ENG. J. Chin DATE 5-5-75
CHK D. [illegible] DATE 5/19/75 BOARD LOCATION:
IBD0[4,22] 29-APR-75 10:06 SHEET 1 OF 1
FIRST USED ON OPTION/MODEL: MG10 NEXT HIGHER ASSEMBLY: B-DD-MG10-0

TITLE: INTERCONNECTION BLOCK DIAGRAM

SIZE	CODE	NUMBER	REV.
D	BD	MG10-0-IBD0	*



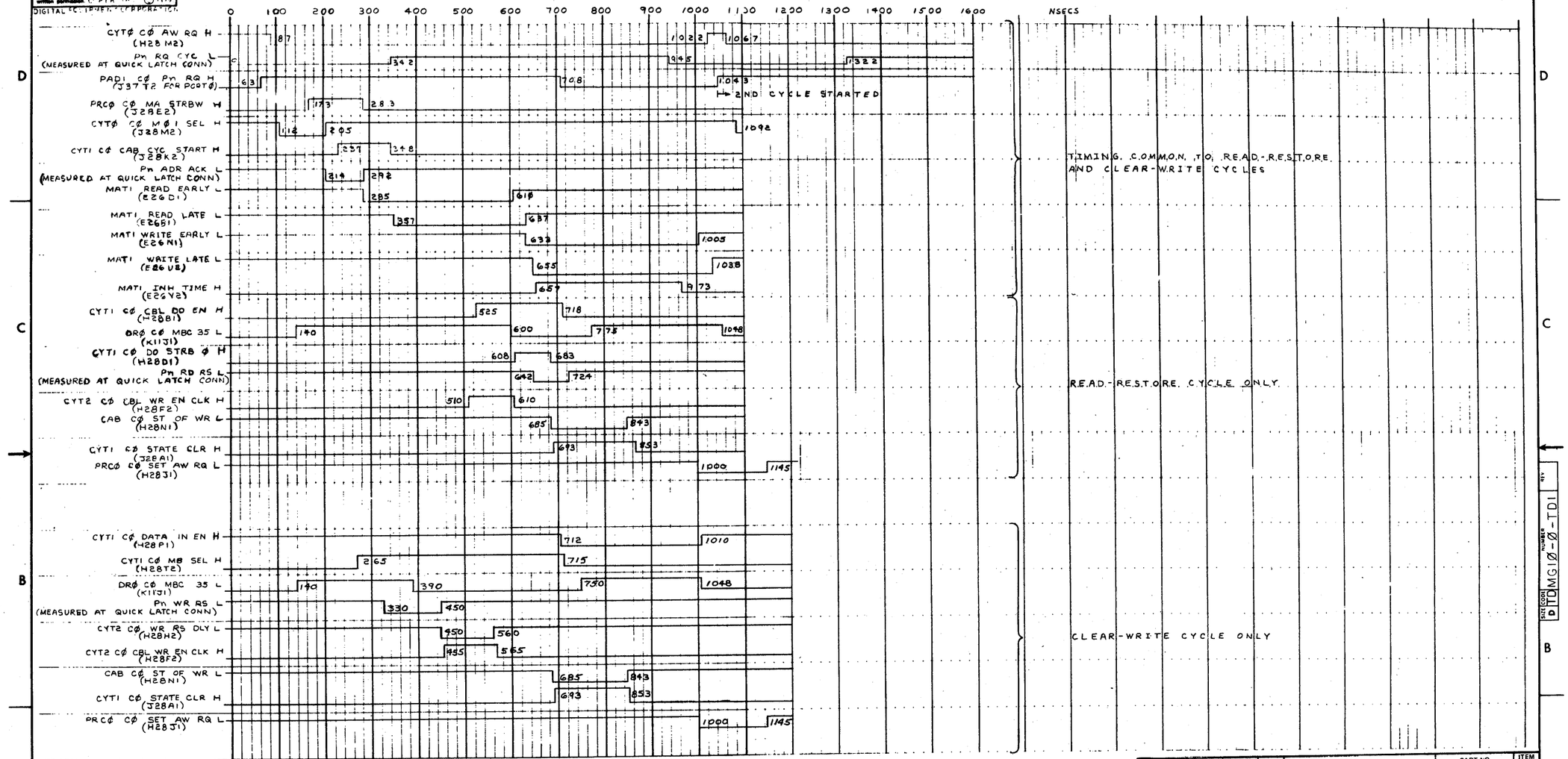
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. W Hamilton DATE 5/14/75
CHK'D [illegible] DATE 5/19/75
ENG. D. J. Chen DATE
BOARD LOCATION:
SHEET 1 OF 1
IBDI[4,22] 29-APR-75 10:01
NEXT HIGHER ASSEMBLY: B-DD-MG10-0
FIRST USED ON OPTION/MODEL: MG10

TITLE: INTERCONNECTION BLOCK DIAGRAM

SIZE	CODE	NUMBER	REV.
D	BD	MG10-0-IBD1	*



REVISIONS	REV.	CHANGE NO.	CHK

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
MGIØ		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES
DECIMALS .XXX ± .005 .XX ± .02 .X ± .1 ANGLES ± 0° 30'
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓
MATERIAL
FINISH

DRN E. Wilson DATE 3/5/75
CHK'D: DATE
ENG. D J Clin DATE 3-21-75
PROJ. ENG. D J Clin DATE 3-21-75
PROD. DATE 3-21-75

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE
MGIØ
TIMING DIAGRAM

NEXT HIGHER ASSY. B-DD-MGIØ-Ø
SIZE D CODE TD NUMBER MGIØ-Ø-TDI REV.
SCALE NONE
SHEET 1 OF 1
DIST.

DEC FORM NO. DRD 172

DIGITAL EQUIPMENT CORPORATION

0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 NSECS

CYTØ CØ AW RQ H (H28M2)
Pn RQ CYC L (MEASURED AT QUICK LATCH CONN)
PA01 CØ Pn RQ H (J37T2 FOR PORT Ø)
PRCØ CØ MA STRBW H (J28E2)
CYTØ CØ MØ1 SEL H (J28M2)
CYT1 CØ CAB CYC START H (J28K2)
Pn ADR ACK L (MEASURED AT QUICK LATCH CONN)
MAT1 READ EARLY L (E26D1)
MAT1 READ LATE L (E26E1)
MAT1 WRITE EARLY L (F26N1)
MAT1 WRITE LATE L (E26U2)
MAT1 INH TIME H (B26V2)
CYT1 CØ CBL DO EN H (H28B1)
DPØ CØ INBC 35 L (K11J1)
CYT1 CØ DO STRB Ø H (H28D1)
Pn RD RS L (MEASURED AT QUICK LATCH CONN)
CYT1 CØ DATA IN EN H (H28P1)
CYT1 CØ MB SEL H (H28T2)
CYT2 CØ WR RS DLY L (H28H2)
CYT2 CØ CBL WR EN CLK H (H28F2)
CAB CØ ST OF WR L (H28N1)
CYT1 CØ STATE CLR H (J28A1)
PRCØ CØ SET AW RQ L (H28J1)

87 342 1525
63 1220
173 288
112 205
239 348
214 292
285 1610
357 637
1140 1510
1160 1540
1160 1485
528 718
140 400 775 1015 1260 1565
608 683
692 724
1220 1520
505 1220
1070 1182
1080 1190
1190 1350
1200 1360
1510 1655

READ-MODIFY-WRITE CYCLE

REVISIONS	REV.	CHANGE NO.	CHK

DEC FORM NO. DRD 122

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
MGIØ		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES

DECIMALS	ANGLES
.XXX ± .005	± 0° 30'
.XX ± .02	
.X ± .1	

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL

FINISH

DRN	L Nilson	DATE 3/6/75
CHK'D	J Miranda	DATE 3/14/75
ENG	DJ Chen	DATE 3-21-75
PROJ ENG	DJ Chen	DATE 3-21-75
PROD	J Arthur	DATE 3-21-75

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE
MGIØ
TIMING DIAGRAM

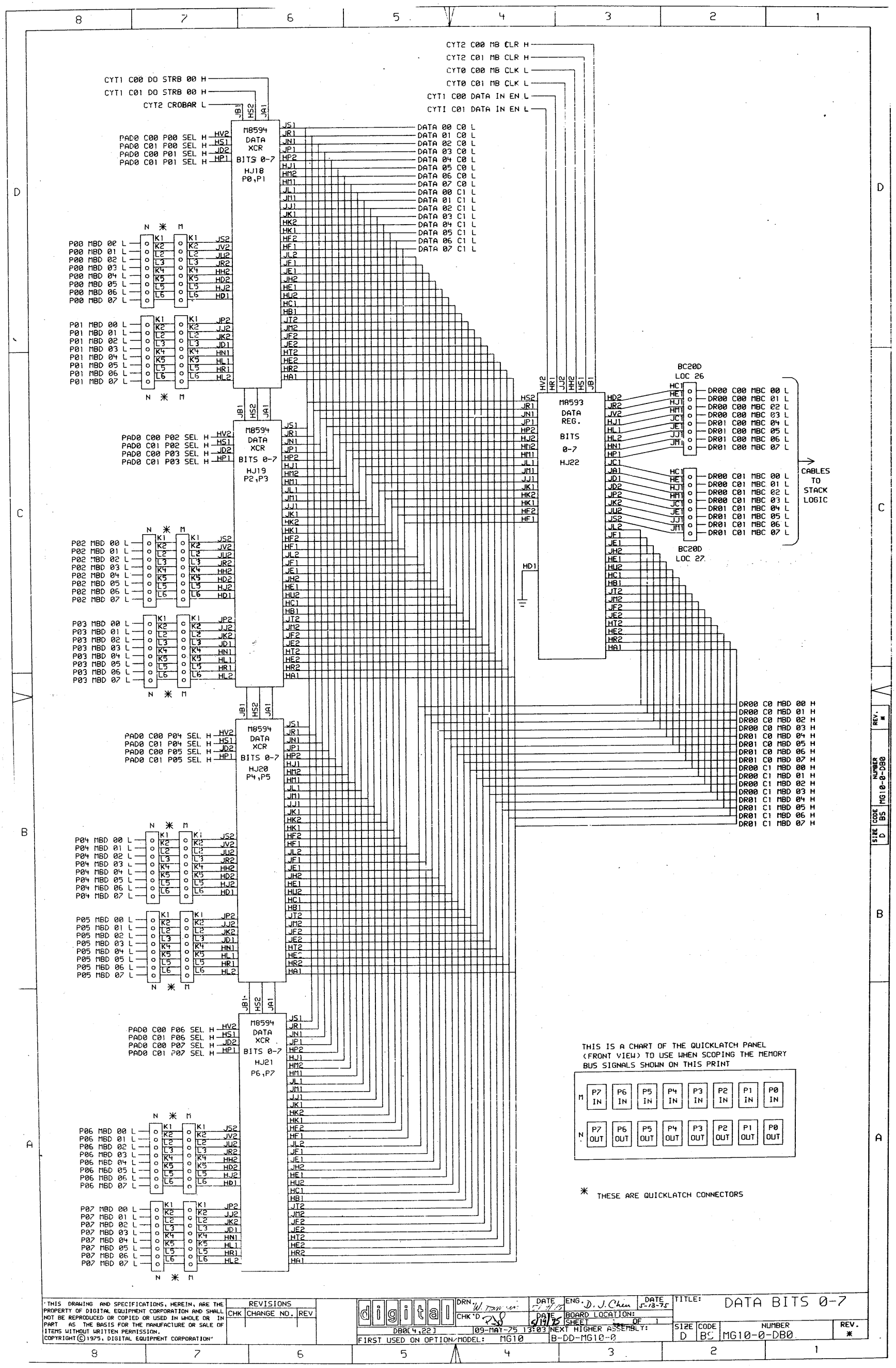
NEXT HIGHER ASSY.
B-DD-MGIØ-Ø

SCALE NONE
SHEET 1 OF 1

SIZE	CODE	NUMBER	REV.
D	TD	MGIØ-Ø-TD2	

DIST.

SIZE D TD MGIØ-Ø-TD2 REV



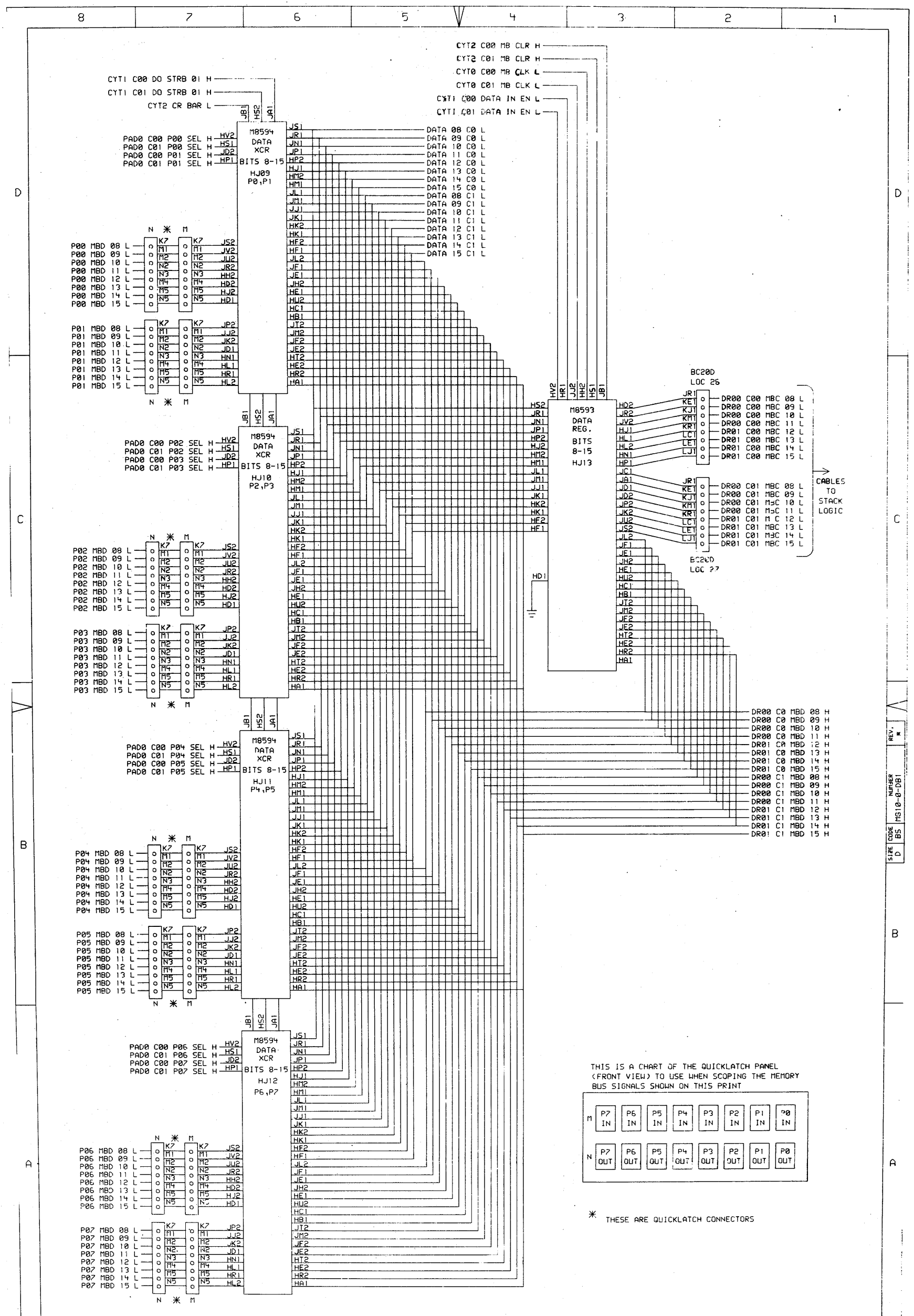
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. W. Tapscott DATE 5-14-75 ENG. D. J. Chen DATE 5-13-75
CHK 'D R.B DATE 5/14/75 BOARD LOCATION:
DB0[4,22] 09-MAY-75 13:03 SHEET 1 OF 1
FIRST USED ON OPTION/MODEL: MG10 NEXT HIGHER ASSEMBLY: B-DD-MG10-0

TITLE: DATA BITS 0-7

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-DB0	*



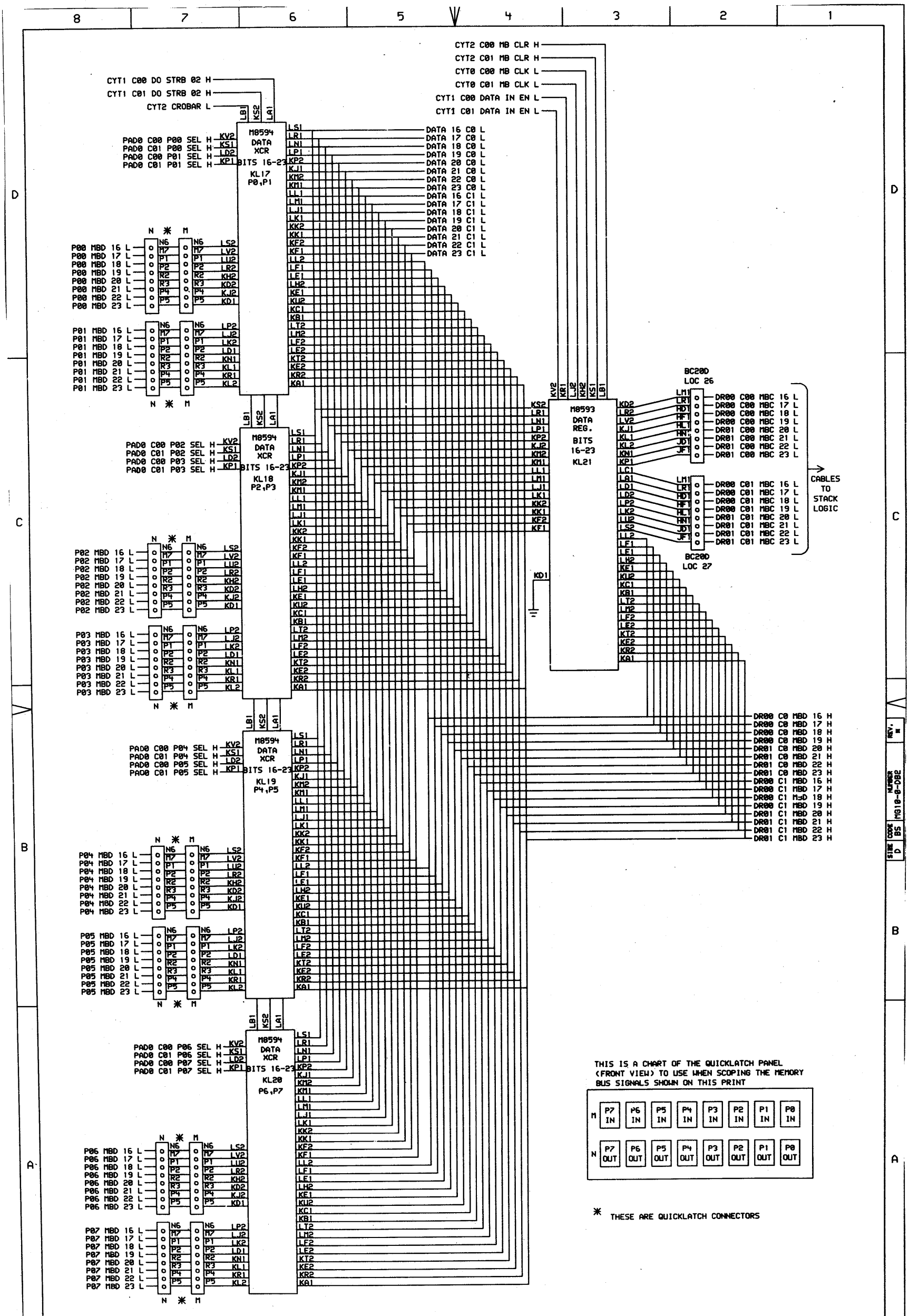
REVISIONS		
CHK	CHANGE NO.	REV

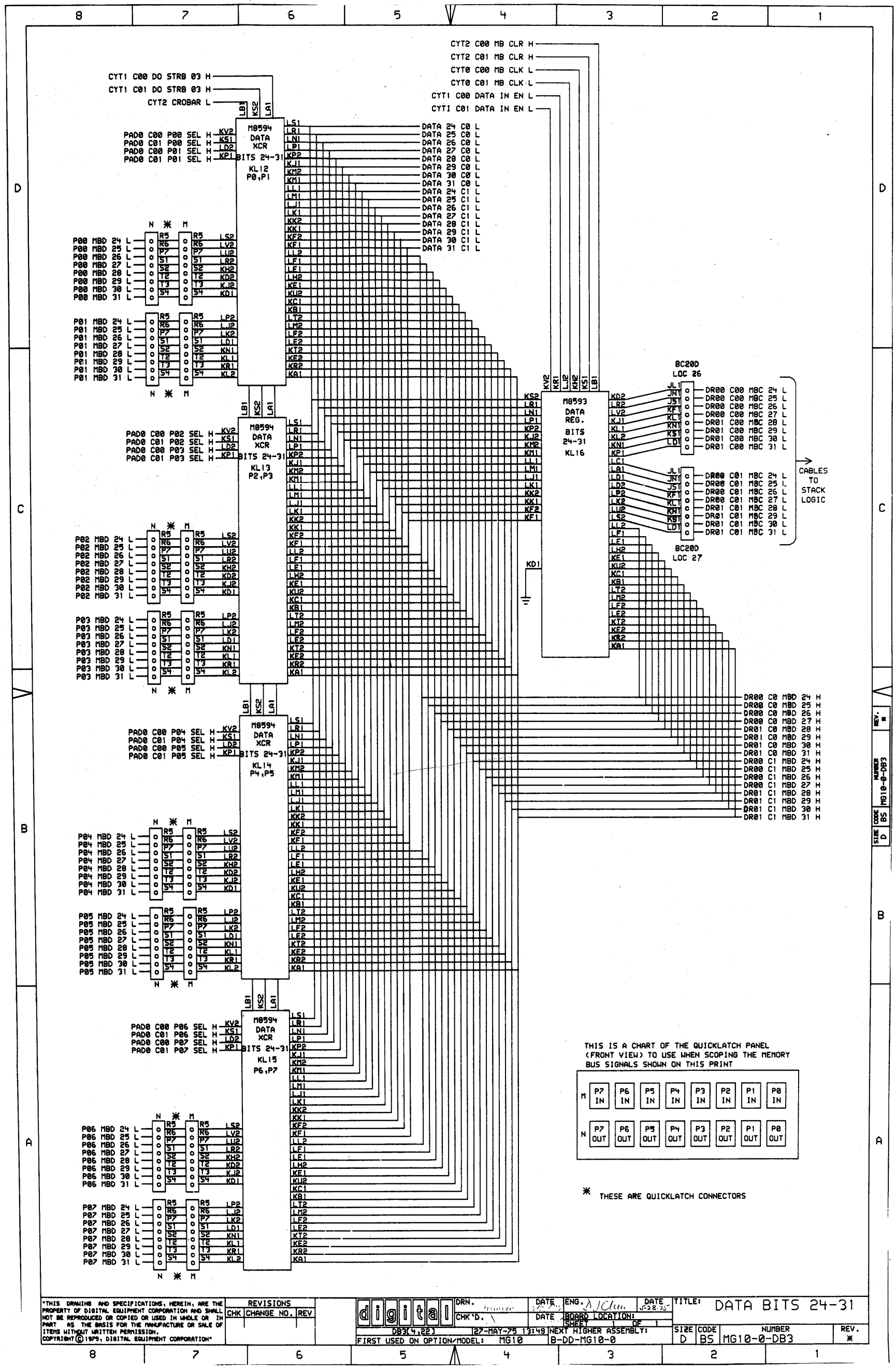
digital

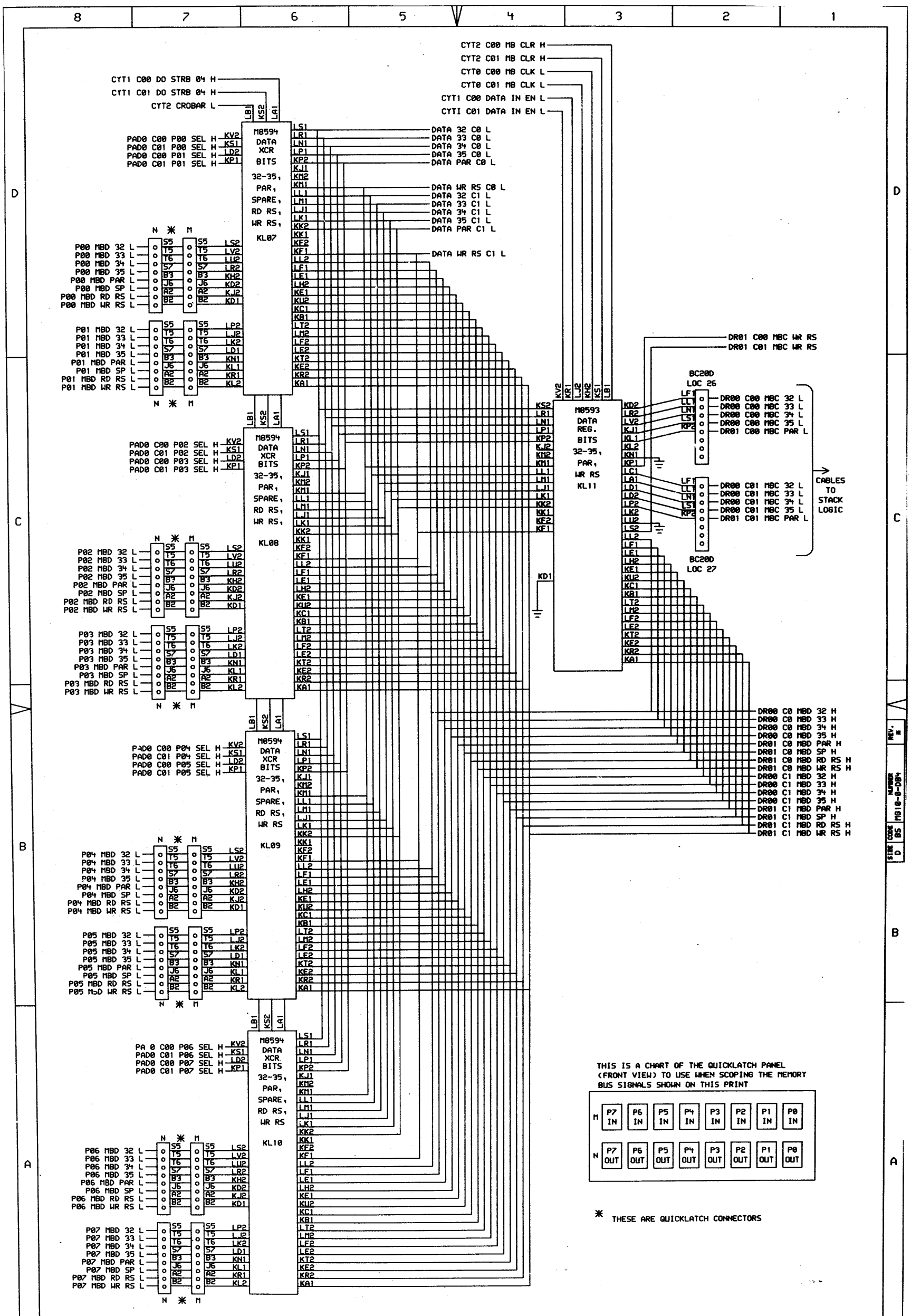
DRN. W. Hamren DATE 5/19/75
CHK D. DATE 5/19/75
ENG. D. J. Chen DATE 5-15-75
BOARD LOCATION:
SHEET 1 OF 1
DB[4,22] 09-M Y-75 09:11
FIRST USED ON OPTION/MODEL: MG10
NEXT HIGHER ASSEMBLY: B-DD-MG10-0

TITLE: DATA BITS 8-15

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-DB1	*


CYT1 C00 DO STRB 02 H
CYT1 C01 DO STRB 02 H
CYT2 CROBAR L
CYT2 C00 MB CLR H
CYT2 C01 MB CLR H
CYT0 C00 MB CLK L
CYT0 C01 MB CLK L
CYT1 C00 DATA IN EN L
CYT1 C01 DATA IN EN L
M8594 DATA XCR BITS 16-23 KL17 P0,P1
M8594 DATA XCR BITS 16-23 KL18 P2,P3
M8594 DATA XCR BITS 16-23 KL19 P4,P5
M8594 DATA XCR BITS 16-23 KL20 P6,P7
M8593 DATA REG. BITS 16-23 KL21
BC20D LOC 26
BC20D LOC 27
CABLES TO STACK LOGIC
THIS IS A CHART OF THE QUICKLATCH PANEL (FRONT VIEW) TO USE WHEN SCOPING THE MEMORY BUS SIGNALS SHOWN ON THIS PRINT
THESE ARE QUICKLATCH CONNECTORS
"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.
COPYRIGHT © 1975, DIGITAL EQUIPMENT CORPORATION"
REVISIONS
CHK CHANGE NO. REV
DRN. W. Hamlin
CHK'D.
ENG. D J Clem
BOARD LOCATION:
SHEET 1 OF 1
D82[4,22] 27-MAY-75 13:49
FIRST USED ON OPTION/MODEL: MG10
NEXT HIGHER ASSEMBLY: B-DD-MG10-0
TITLE: DATA BITS 16-23
SIZE D
CODE BS
NUMBER MG10-0-DB2
REV. *


CYT1 C00 DO STRB 03 H
CYT1 C01 DO STRB 03 H
CYT2 CROBAR L
CYT2 C00 MB CLR H
CYT2 C01 MB CLR H
CYT0 C00 MB CLK L
CYT0 C01 MB CLK L
CYT1 C00 DATA IN EN L
CYTI C01 DATA IN EN L
M8594 DATA XCR BITS 24-31 KL12 P0,P1
M8594 DATA XCR BITS 24-31 KL13 P2,P3
M8594 DATA XCR BITS 24-31 KL14 P4,P5
M8594 DATA XCR BITS 24-31 KL15 P6,P7
M8593 DATA REG. BITS 24-31 KL16
BC20D LOC 26
BC20D LOC 27
CABLES TO STACK LOGIC
THIS IS A CHART OF THE QUICKLATCH PANEL (FRONT VIEW) TO USE WHEN SCOPING THE MEMORY BUS SIGNALS SHOWN ON THIS PRINT
THESE ARE QUICKLATCH CONNECTORS
"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.
COPYRIGHT © 1979, DIGITAL EQUIPMENT CORPORATION"
REVISIONS
CHK CHANGE NO. REV
digital
DRN.
CHK'D.
ENG.
DATE
BOARD LOCATION:
SHEET 1 OF 1
DB3[4,22] 27-MAY-75 13:49
NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MG10
B-DD-MG10-0
TITLE: DATA BITS 24-31
SIZE D
CODE BS
NUMBER MG10-0-DB3
REV. *



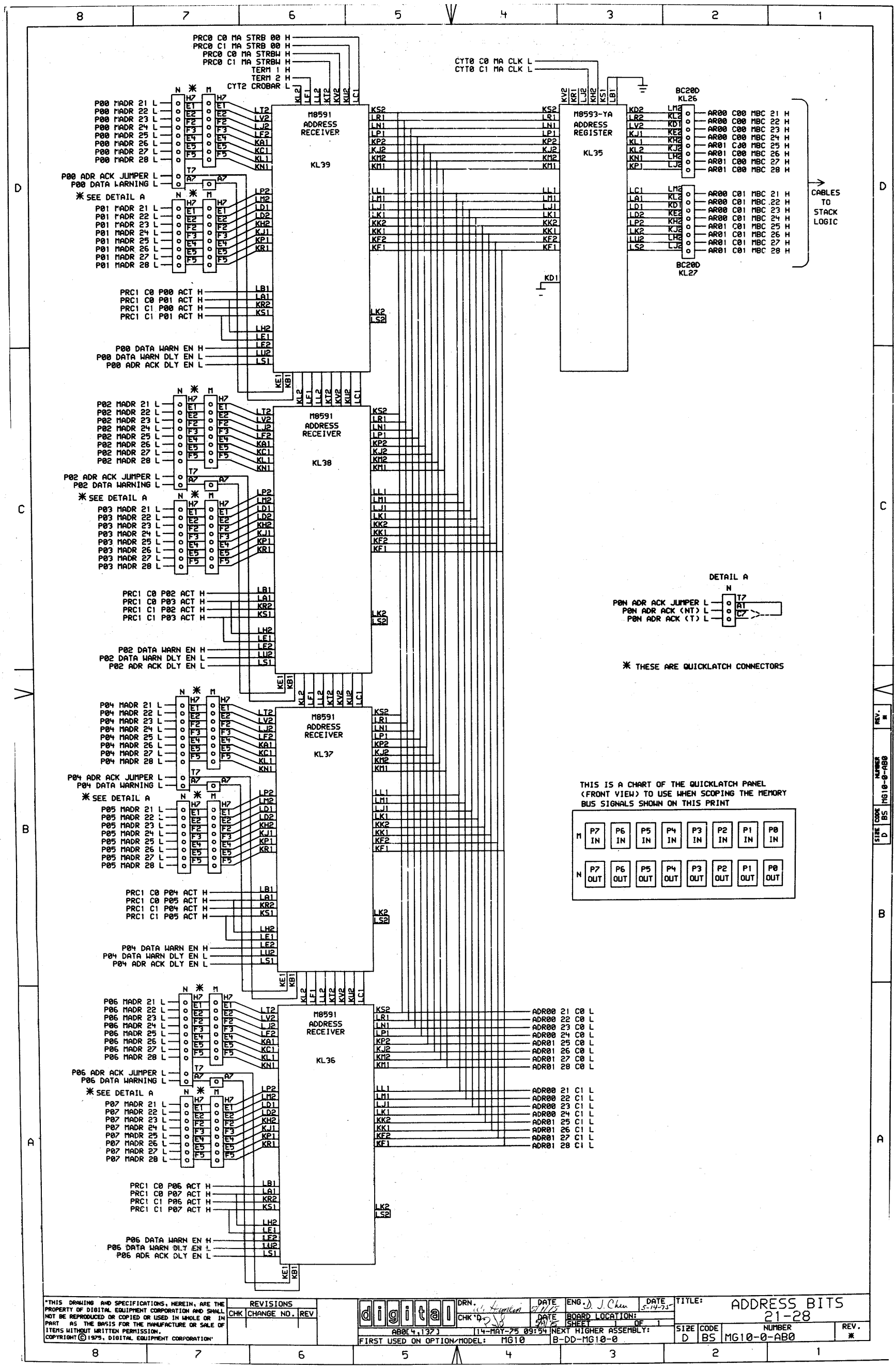
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. | DATE | ENG. D. J Chen | DATE 5-14-75
CHK'D. | DATE 5/19/75 | BOARD LOCATION:
DB4[4,22] | 09-MAY-75 10:14 | SHEET 1 OF 1
FIRST USED ON OPTION/MODEL: MG10 | NEXT HIGHER ASSEMBLY: B-DD-MG10-0

TITLE: DATA BITS 32-PAR

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-DB4	*



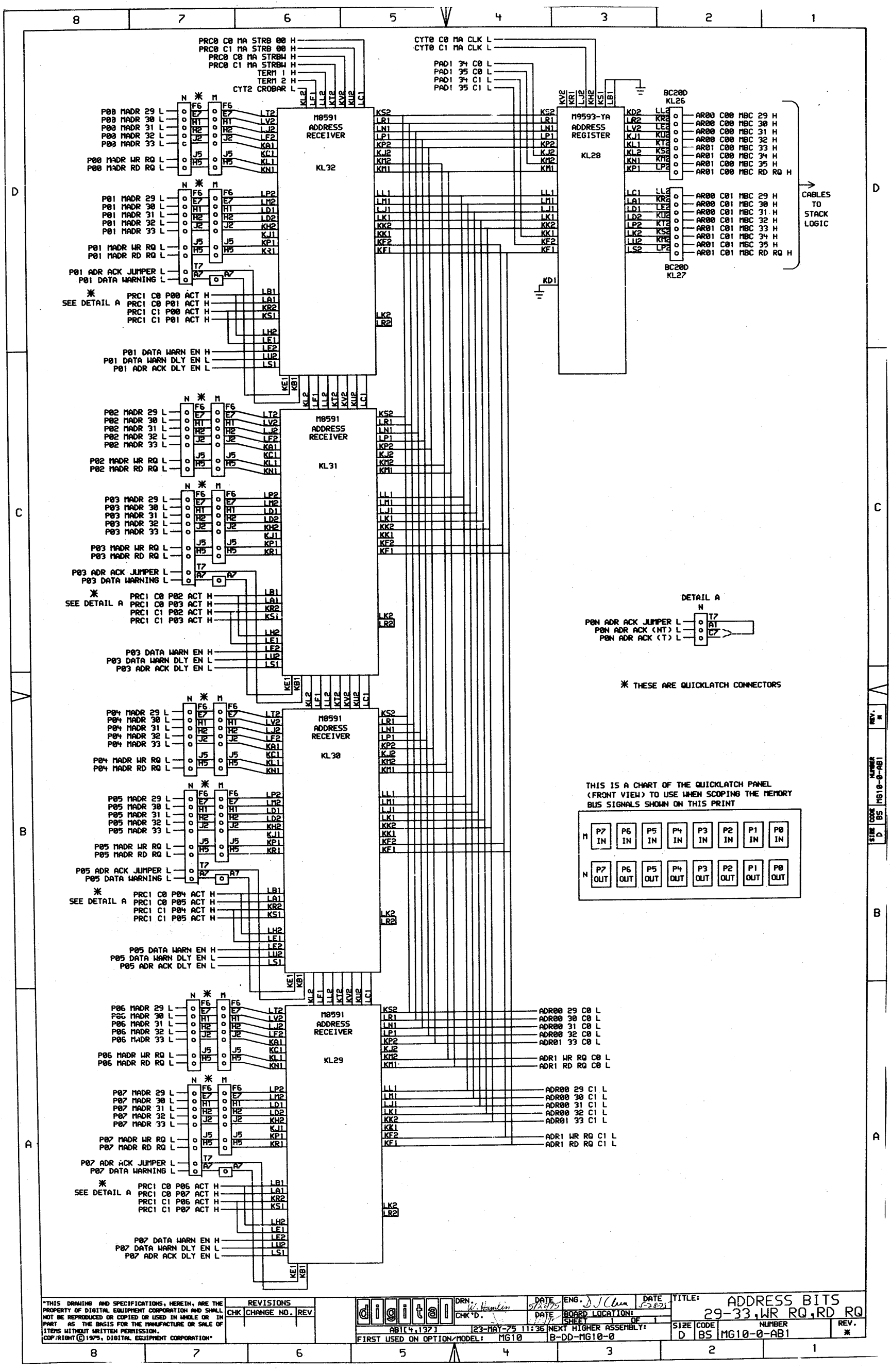
REVISIONS

CHK	CHANGE NO.	REV

DRN.	DATE 5/11/75	ENG. D. J. Chen	DATE 5-14-75
CHK	DATE 5/11/75	BOARD LOCATION:	
AB0[4,137]	14-MAY-75 09:54	SHEET 1 OF 1	
FIRST USED ON OPTION/MODEL: MG10		NEXT HIGHER ASSEMBLY: B-DD-MG10-0	

TITLE: ADDRESS BITS 21-28

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-AB0	*



REVISIONS

CHK	CHANGE NO.	REV

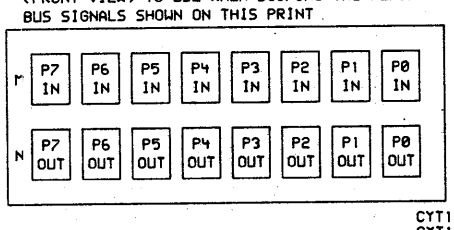
digital

DRN. W. Hamlin DATE 5/28/75
CHK'D. DATE
ENG. D J Clem DATE 5-28-75
BOARD LOCATION:
SHEET 1 OF 1
AB1[4,137] 23-MAY-75 11:36
FIRST USED ON OPTION/MODEL: MG10
NEXT HIGHER ASSEMBLY: B-DD-MG10-0

TITLE: ADDRESS BITS 29-33,WR RQ,RD RQ

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-AB1	*

THIS IS A CHART OF THE QUICKLATCH PANEL
(FRONT VIEW) TO USE WHEN SCOPING THE MEMORY
BUS SIGNALS SHOWN ON THIS PRINT



✳THESE ARE QUICKLATCH CONNECTORS

CYT1 C00 MB SEL H
CYT1 C01 MB SEL H
CAB 32K SENSE L
PC 34 INTL SW H
PC 35 INTL SW H
CYT0 C00 SIZE 0 H
CYT0 C00 SIZE 1 H
PRC0 C00 MA STRB 01 H
PRC0 C01 MA STRB 01 H
CYT0 C00 AW RQ H
CYT0 C01 AW RQ H
CYT1 C00 STATE CLEAR L
CYT1 C01 STATE CLEAR L
PRC2 14 UP BND L
PRC2 15 UP BND L
PRC2 16 UP BND L
PRC2 17 UP BND L
PRC2 18 UP BND L
PRC2 19 UP BND L
PRC2 20 UP BND L
PC LWR BND SW 14 H
PC LWR BND SW 15 H
PC LWR BND SW 16 H
PC LWR BND SW 17 H
PC LWR BND SW 18 H
PC LWR BND SW 19 H
PC LWR BND SW 20 H

HS1 HE2 HR2 HK2 HJ1 HJ2 HL2 HP2 HN1 HR1 HB1 HA1 HD2 HD1 JR2 JV2 HS2 JD2 JJ2 JM2 JA1 JB1 HV2 JF2 JP2 JE1 JD1

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PORT ADDRESS
INTERFACE
HJ37

JU2 PAD1 C00 P00 RQ L
JT2 PAD1 C00 P00 RQ H
JN1 PAD1 C01 P00 RQ L
JP1 PAD1 C01 P00 RQ H
JC1 PAD0 C00 P00 SEL H
JE2 PAD0 C01 P00 SEL H
JK1 PAD1 34 C00 L
JH2 PAD1 34 C01 L
JL1 PAD1 35 C00 L
JF1 PAD1 35 C01 L
JS2 PAD2 C00 NORM SEL 0 L
JM1 PAD2 C01 NORM SEL 0 L
JS1 PAD2 C00 NORM SEL 1 L
JJ1 PAD2 C01 NORM SEL 1 L

N ✳ M
P00 MADR 14 L — C4 — HE1
P00 MADR 15 L — C5 — HC1
P00 MADR 16 L — D5 — HF2
P00 MADR 17 L — D6 — HF1
P00 MADR 18 L — B6 — HP1
P00 MADR 19 L — C1 — HM2
P00 MADR 20 L — D2 — HL1
P00 MADR 21 L — H7 — HK1
P00 MADR 34 L — J3 — HU2
P00 MADR 35 L — H4 — HT2
T7 — HH2
P00 RQ CYC FAST L — A5
P00 RQ CYC SLOW L — B5
P00 RQ CYC IMM L — A4
✳ (SEE D-BS-MG10-IS0)

PC P00 SEL KA SW L — HM1
CHK P00 SEL SW H — JK2
PRC1 C00 P00 ACT H — JR1
PRC1 C01 P00 ACT H — JL2

PRC0 C00 MA STRB 01 H
PRC0 C01 MA STRB 01 H

HS1 HE2 HR2 HK2 HJ1 HJ2 HL2 HP2 HN1 HR1 HB1 HA1 HD2 HD1 JR2 JV2 HS2 JD2 JJ2 JM2 JA1 JB1 HV2 JF2 JP2 JE1 JD1

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PORT ADDRESS
INTERFACE
HJ36

JU2 PAD1 C00 P01 RQ L
JT2 PAD1 C00 P01 RQ H
JN1 PAD1 C01 P01 RQ L
JP1 PAD1 C01 P01 RQ H
JC1 PAD0 C00 P01 SEL H
JE2 PAD0 C01 P01 SEL H
JK1
JH2
JL1
JF1
JS2
JM1
JS1
JJ1

N ✳ M
P01 MADR 14 L — C4 — HE1
P01 MADR 15 L — C5 — HC1
P01 MADR 16 L — D5 — HF2
P01 MADR 17 L — D6 — HF1
P01 MADR 18 L — B6 — HP1
P01 MADR 19 L — C1 — HM2
P01 MADR 20 L — D2 — HL1
P01 MADR 21 L — H7 — HK1
P01 MADR 34 L — J3 — HU2
P01 MADR 35 L — H4 — HT2
T7 — HH2
P01 RQ CYC FAST L — A5
P01 RQ CYC SLOW L — B5
P01 RQ CYC IMM L — A4
✳ (SEE D-BS-MG10-IS0)

PC P01 SEL KA SW L — HM1
CHK P01 SEL SW H — JK2
PRC1 C00 P01 ACT H — JR1
PRC1 C01 P01 ACT H — JL2

PRC0 C00 MA STRB 01 H
PRC0 C01 MA STRB 01 H

HS1 HE2 HR2 HK2 HJ1 HJ2 HL2 HP2 HN1 HR1 HB1 HA1 HD2 HD1 JR2 JV2 HS2 JD2 JJ2 JM2 JA1 JB1 HV2 JF2 JP2 JE1 JD1

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PORT ADDRESS
INTERFACE
HJ35

JU2 PAD1 C00 P02 RQ L
JT2 PAD1 C00 P02 RQ H
JN1 PAD1 C01 P02 RQ L
JP1 PAD1 C01 P02 RQ H
JC1 PAD0 C00 P02 SEL H
JE2 PAD0 C01 P02 SEL H
JK1
JH2
JL1
JF1
JS2
JM1
JS1
JJ1

N ✳ M
P02 MADR 14 L — C4 — HE1
P02 MADR 15 L — C5 — HC1
P02 MADR 16 L — D5 — HF2
P02 MADR 17 L — D6 — HF1
P02 MADR 18 L — B6 — HP1
P02 MADR 19 L — C1 — HM2
P02 MADR 20 L — D2 — HL1
P02 MADR 21 L — H7 — HK1
P02 MADR 34 L — J3 — HU2
P02 MADR 35 L — H4 — HT2
T7 — HH2
P02 RQ CYC FAST L — A5
P02 RQ CYC SLOW L — B5
P02 RQ CYC IMM L — A4
✳ (SEE D-BS-MG10-IS0)

PC P02 SEL KA SW L — HM1
CHK P02 SEL SW H — JK2
PRC1 C00 P02 ACT H — JR1
PRC1 C01 P02 ACT H — JL2

PRC0 C00 MA STRB 02 H
PRC0 C01 MA STRB 02 H

HS1 HE2 HR2 HK2 HJ1 HJ2 HL2 HP2 HN1 HR1 HB1 HA1 HD2 HD1 JR2 JV2 HS2 JD2 JJ2 JM2 JA1 JB1 HV2 JF2 JP2 JE1 JD1

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PORT ADDRESS
INTERFACE
HJ34

JU2 PAD1 C00 P03 RQ L
JT2 PAD1 C00 P03 RQ H
JN1 PAD1 C01 P03 RQ L
JP1 PAD1 C01 P03 RQ H
JC1 PAD0 C00 P03 SEL H
JE2 PAD0 C01 P03 SEL H
JK1
JH2
JL1
JF1
JS2
JM1
JS1
JJ1

N ✳ M
P03 MADR 14 L — C4 — HE1
P03 MADR 15 L — C5 — HC1
P03 MADR 16 L — D5 — HF2
P03 MADR 17 L — D6 — HF1
P03 MADR 18 L — B6 — HP1
P03 MADR 19 L — C1 — HM2
P03 MADR 20 L — D2 — HL1
P03 MADR 21 L — H7 — HK1
P03 MADR 34 L — J3 — HU2
P03 MADR 35 L — H4 — HT2
T7 — HH2
P03 RQ CYC FAST L — A5
P03 RQ CYC SLOW L — B5
P03 RQ CYC IMM L — A4
✳ (SEE D-BS-MG10-IS0)

PC P03 SEL KA SW L — HM1
CHK P03 SEL SW H — JK2
PRC1 C00 P03 ACT H — JR1
PRC1 C01 P03 ACT H — JL2

REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. W. Tomisaki DATE 5/7/75
CHK D. DATE 5/9/75
ENG. J. J. Chiu DATE 5-14-75
BOARD LOCATION:
SHEET 1 OF 1
PR0[4,137] 09-MAY-75 12:56
NEXT HIGHER ASSEMBLY: B-DD-MG10-0
FIRST USED ON OPTION/MODEL: MG10

TITLE: PORT REQUEST LOGIC 0-3

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-PR0	✳

THIS IS A CHART OF THE QUICKLATCH PANEL
(FRONT VIEW) TO USE WHEN SCOPING THE MEMORY
BUS SIGNALS SHOWN ON THIS PRINT

M	P7 IN	P6 IN	P5 IN	P4 IN	P3 IN	P2 IN	P1 IN	P0 IN
N	P7 OUT	P6 OUT	P5 OUT	P4 OUT	P3 OUT	P2 OUT	P1 OUT	P0 OUT

* THESE ARE QUICKLATCH CONNECTORS

CYT1 C00 MB SEL H
CYT1 C01 MB SEL H
CAB 32K SENSE L
PC 34 INTL SW H
PC 35 INTL SW H
CYT0 C00 SIZE 0 H
CYT0 C00 SIZE 1 H
PRC0 C00 MA STRB 02 H
PRC0 C01 MA STRB 02 H
CYT0 C00 AW RQ H
CYT0 C01 AW RQ H
CYT1 C00 STATE CLEAR L
CYT1 C01 STATE CLEAR L
PRC2 14 UP BND L
PRC2 15 UP BND L
PRC2 16 UP BND L
PRC2 17 UP BND L
PRC2 18 UP BND L
PRC2 19 UP BND L
PRC2 20 UP BND L
PC LWR BND SW 14 H
PC LWR BND SW 15 H
PC LWR BND SW 16 H
PC LWR BND SW 17 H
PC LWR BND SW 18 H
PC LWR BND SW 19 H
PC LWR BND SW 20 H

HS1 HE2 HR2 HK2 HJ1 HJ2 HL2 HP2 HN1 HR1 HB1 HA1 HD2 HD1 JR2 JV2 HS2 JD2 JJ2 JM2 JA1 JB1 HV2 JF2 JP2 JE1 JD1

M8592
PORT ADDRESS
INTERFACE

HJ33

P04 MADR 14 L
P04 MADR 15 L
P04 MADR 16 L
P04 MADR 17 L
P04 MADR 18 L
P04 MADR 19 L
P04 MADR 20 L
P04 MADR 21 L
P04 MADR 34 L
P04 MADR 35 L
P04 RQ CYC FAST L
P04 RQ CYC SLOW L
P04 RQ CYC IMM L
(SEE D-BS-MG10-0-IS0)

PC P04 SEL KA SW L — HM1
CHK P04 SEL SW H — JK2
PRC1 C00 P04 ACT H — JR1
PRC1 C01 P04 ACT H — JL2

JU2 PAD1 C00 P04 RQ L
JT2 PAD1 C00 P04 RQ H
JN1 PAD1 C01 P04 RQ L
JP1 PAD1 C01 P04 RQ H
JC1 PAD0 C00 P04 SEL H
JE2 PAD0 C01 P04 SEL H
JK1 PAD1 34 C00 L
JH2 PAD1 34 C01 L
JL1 PAD1 35 C00 L
JF1 PAD1 35 C01 L
JS2 PAD2 C00 NORM SEL 0 L
JM1 PAD2 C01 NORM SEL 0 L
JS1 PAD2 C00 NORM SEL 1 L
JJ1 PAD2 C01 NORM SEL 1 L

PRC0 C00 MA STRB 02 H
PRC0 C01 MA STRB 02 H

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PORT ADDRESS
INTERFACE

HJ32

P05 MADR 14 L
P05 MADR 15 L
P05 MADR 16 L
P05 MADR 17 L
P05 MADR 18 L
P05 MADR 19 L
P05 MADR 20 L
P05 MADR 21 L
P05 MADR 34 L
P05 MADR 35 L
P05 RQ CYC FAST L
P05 RQ CYC SLOW L
P05 RQ CYC IMM L
(SEE D-BS-MG10-0-IS0)

PC P05 SEL KA SW L — HM1
CHK P05 SEL SW H — JK2
PRC1 C00 P05 ACT H — JR1
PRC1 C01 P05 ACT H — JL2

JU2 PAD1 C00 P05 RQ L
JT2 PAD1 C00 P05 RQ H
JN1 PAD1 C01 P05 RQ L
JP1 PAD1 C01 P05 RQ H
JC1 PAD0 C00 P05 SEL H
JE2 PAD0 C01 P05 SEL H
JK1
JH2
JL1
JF1
JS2
JM1
JS1
JJ1

PRC0 C00 MA STRB 03 H
PRC0 C01 MA STRB 03 H

M8592
PORT ADDRESS
INTERFACE

HJ31

P06 MADR 14 L
P06 MADR 15 L
P06 MADR 16 L
P06 MADR 17 L
P06 MADR 18 L
P06 MADR 19 L
P06 MADR 20 L
P06 MADR 21 L
P06 MADR 34 L
P06 MADR 35 L
P06 RQ CYC FAST L
P06 RQ CYC SLOW L
P06 RQ CYC IMM L
(SEE D-BS-MG10-0-IS0)

PC P06 SEL KA SW L — HM1
CHK P06 SEL SW H — JK2
PRC1 C00 P06 ACT H — JR1
PRC1 C01 P06 ACT H — JL2

JU2 PAD1 C00 P06 RQ L
JT2 PAD1 C00 P06 RQ H
JN1 PAD1 C01 P06 RQ L
JP1 PAD1 C01 P06 RQ H
JC1 PAD0 C00 P06 SEL H
JE2 PAD0 C01 P06 SEL H
JK1
JH2
JL1
JF1
JS2
JM1
JS1
JJ1

PRC0 C00 MA STRB 03 H
PRC0 C01 MA STRB 03 H

M8592
PORT ADDRESS
INTERFACE

HJ30

P07 MADR 14 L
P07 MADR 15 L
P07 MADR 16 L
P07 MADR 17 L
P07 MADR 18 L
P07 MADR 19 L
P07 MADR 20 L
P07 MADR 21 L
P07 MADR 34 L
P07 MADR 35 L
P07 RQ CYC FAST L
P07 RQ CYC SLOW L
P07 RQ CYC IMM L
(SEE D-BS-MG10-0-IS0)

PC P07 SEL KA SW L — HM1
CHK P07 SEL SW H — JK2
PRC1 C00 P07 ACT H — JR1
PRC1 C01 P07 ACT H — JL2

JU2 PAD1 C00 P07 RQ L
JT2 PAD1 C00 P07 RQ H
JN1 PAD1 C01 P07 RQ L
JP1 PAD1 C01 P07 RQ H
JC1 PAD0 C00 P07 SEL H
JE2 PAD0 C01 P07 SEL H
JK1
JH2
JL1
JF1
JS2
JM1
JS1
JJ1

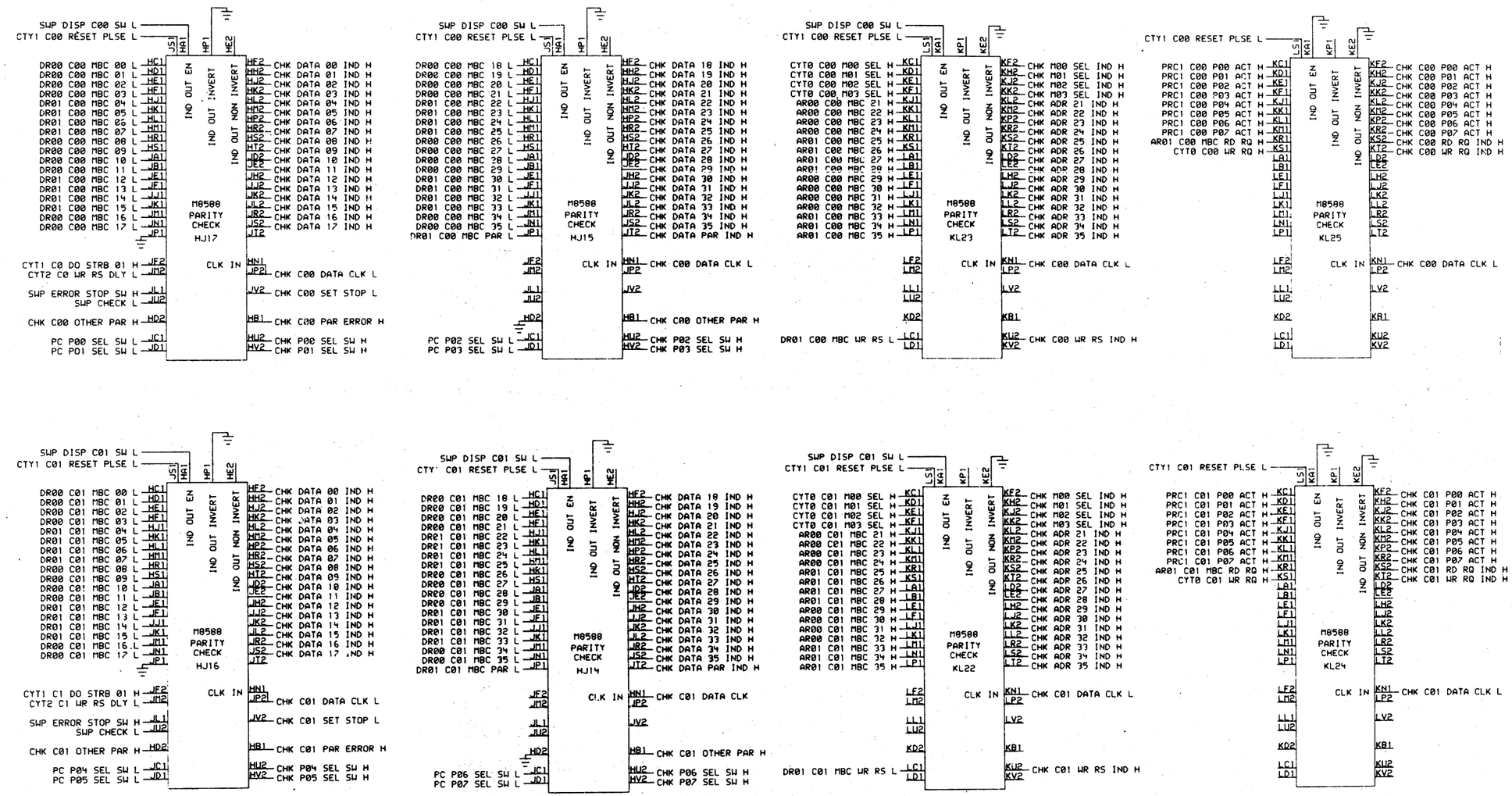
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. K. Hamagami — DATE 5-14-75
CHK'D. RJS — DATE 5/14/75
ENG. D. J. Chin — DATE 5-14-75
BOARD LOCATION:
SHEET 1 OF 1
PR1[4,132] 09-MAY-75 13:00
NEXT HIGHER ASSEMBLY: B-DD-MG10-0
FIRST USED ON OPTION/MODEL: MG10

TITLE: PORT REQUEST LOGIC 4-7

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-PR1	*



NOTE:

ALL PINS WITH NO
SIGNAL NAMES
ARE UNUSED

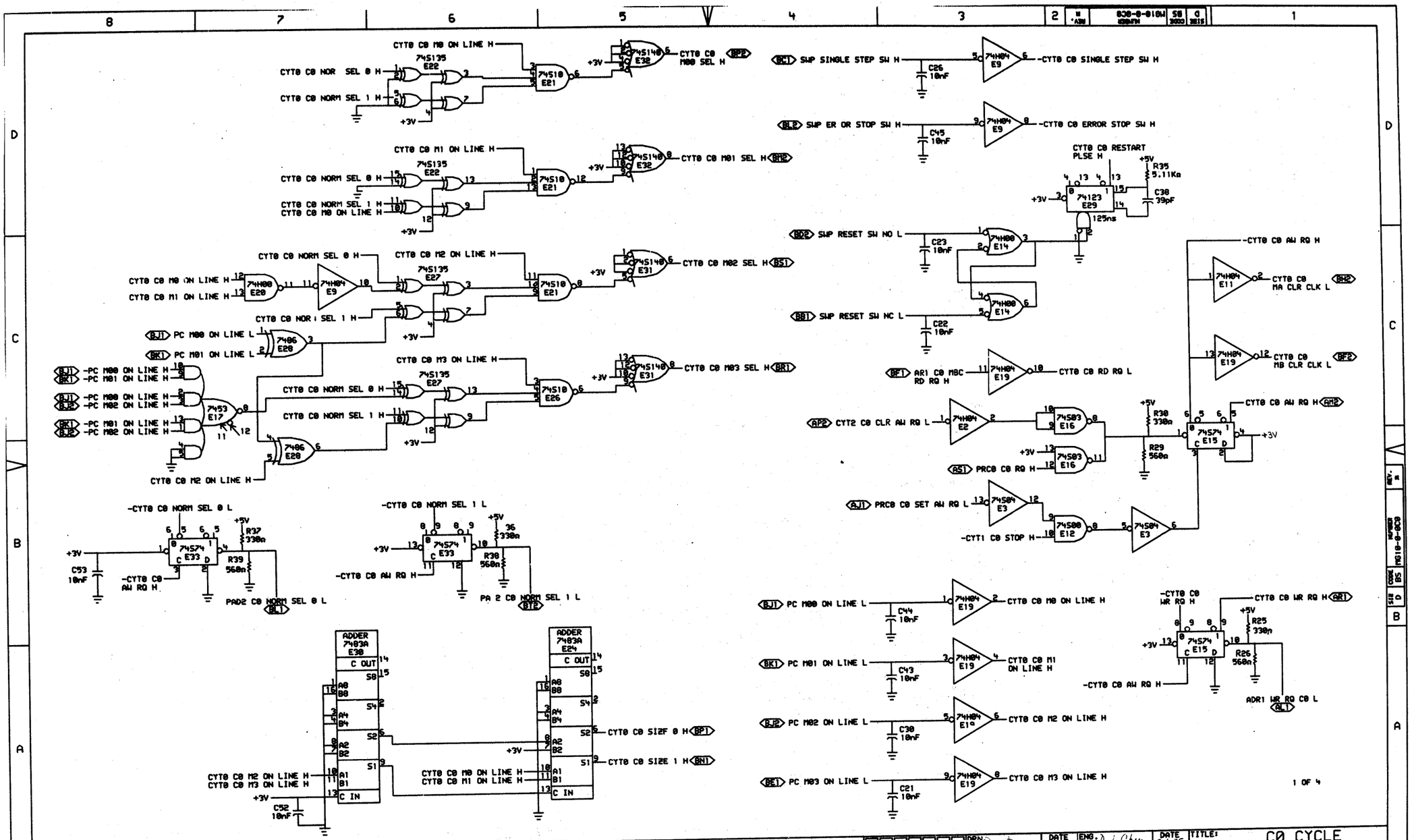
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN: M. Ingram 5/9/75
CHK'D: [illegible] 5/9/75
ENG: D. J. Chen 5-6-75
BOARD LOCATION:
SHEET 1 OF 1
CHK(4,22) 25-APR-75 08:41
FIRST USED ON OPTION/MODEL: MG10
NEXT HIGHER ASSEMBLY: B-DD-MG10-0

TITLE: CHECK LOGIC

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-CHK	*



REVISIONS		
CHK	CHANGE NO.	REV

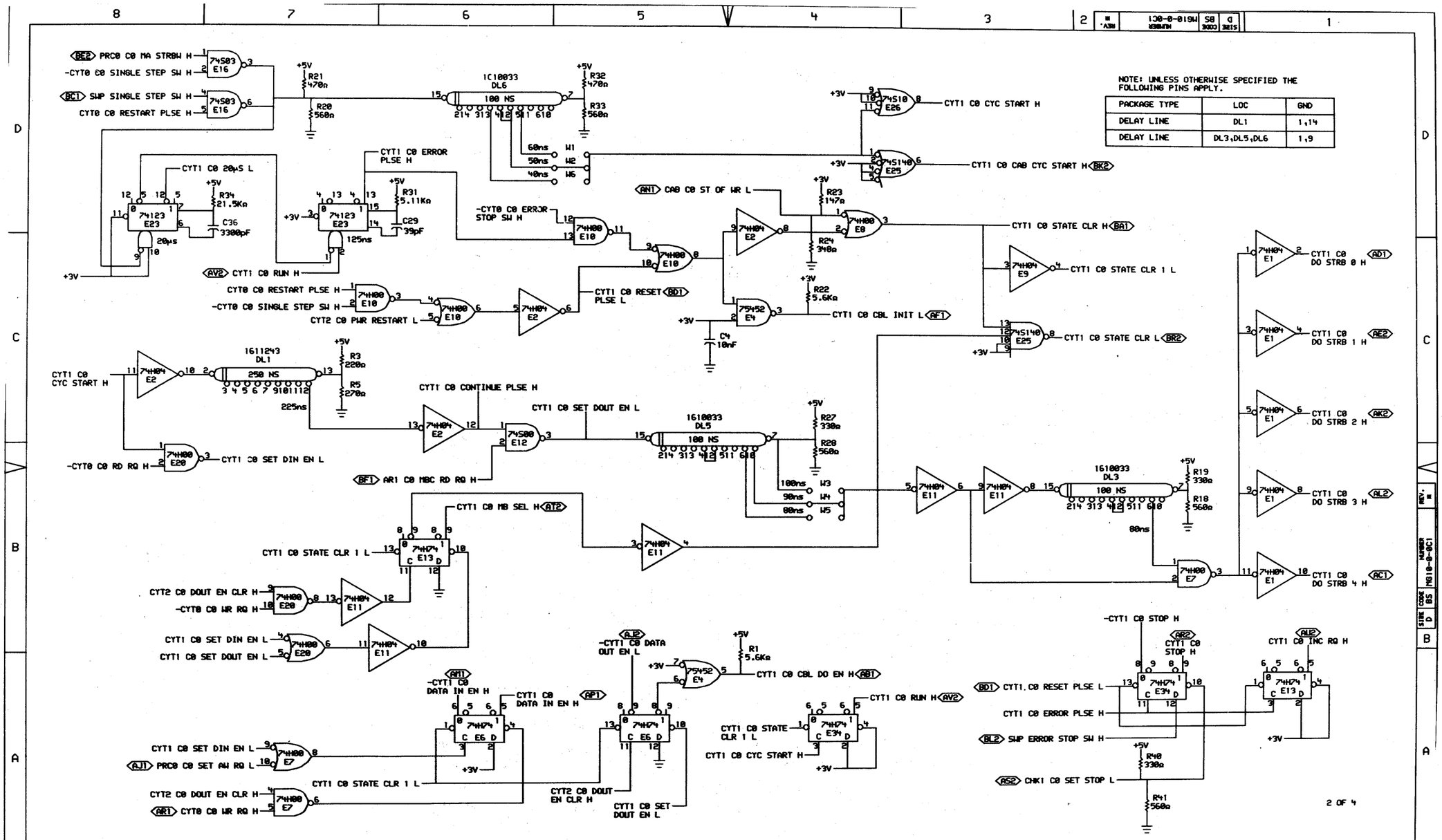
digital

DRN. [illegible] DATE 5-6-75
CHK D. [illegible] DATE 5/6/75 ENG. D.J. Chen DATE 5-6-75
BOARD LOCATION: DE 1
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-MG10-0
FIRST USED ON OPTION/MODEL: MG10

BCBK4.13? 23-A-R-75 11:45

TITLE: C0 CYCLE TIMING

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-0C0	#



REVISIONS

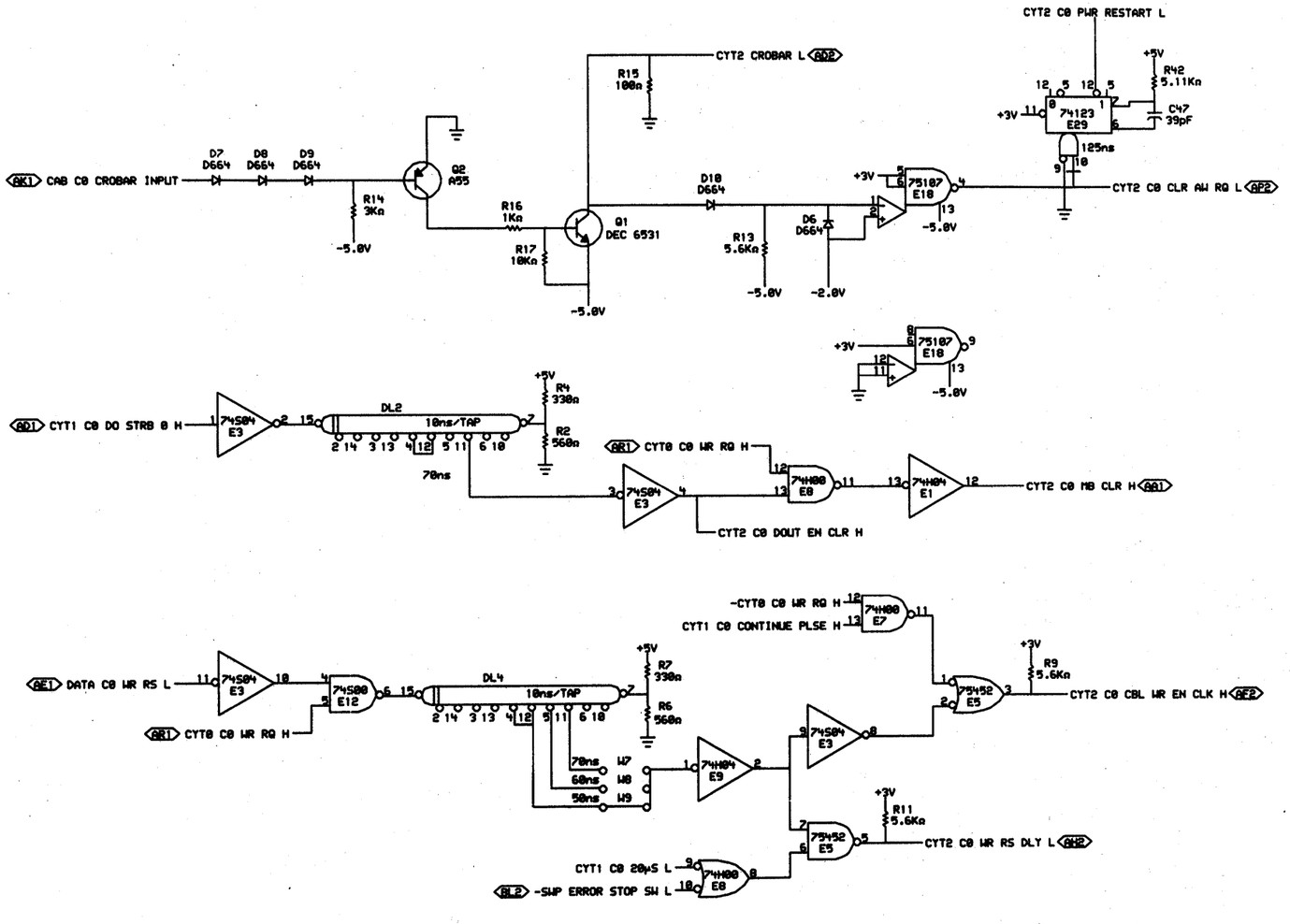
CHK	CHANGE NO.	REV

digital

DRN. W. Hanson DATE 5/27/75
CHK "DC" DATE 5-27-75
ENG. J. Chen DATE 5-23-75
BOARD LOCATION: SHEET 1 OF 1
6C1(4,13?) 22-MAY-75 07:20 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MG10 B-DD-MG10-0

TITLE: C0 CYCLE TIMING

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-0C1	*



NOTE: UNLESS OTHERWISE SPECIFIED THE FOLLOWING PINS APPLY.

PACKAGE TYPE	LOC	GND
DELAY LINE	DL2,DL4	1,9

3 OF 4

REVISIONS		
CHK	CHANGE NO.	REV
AAA	MG12-MR0111	A
	30-NOV-77	
L BALES		

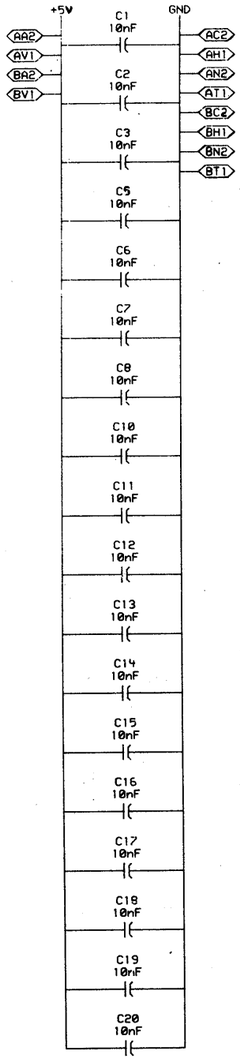
digital

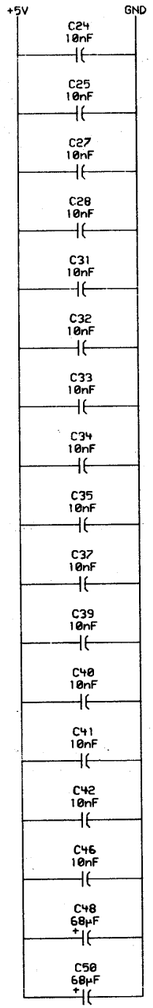
DRW. L. Bales 31-AUG-77
CHK. [illegible] 31-AUG-77
0C2.DRW;4.257 31-AUG-77 12:19
FIRST USED ON OPTION/MODEL: MG10

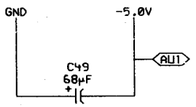
ENG. L. Bales 9/1/77
BOARD LOCATIONS:
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-MG10-0

TITLE: C0 CYCLE TIMING

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-0C2	A







THE FOLLOWING ARE CONNECTOR PINS
WHICH ARE NOT CONNECTED TO ETCH
ON THIS MODULE:

AB2	BB2
	BM1
	BS2
	BU1
	BU2
	BV2

4 OF 4

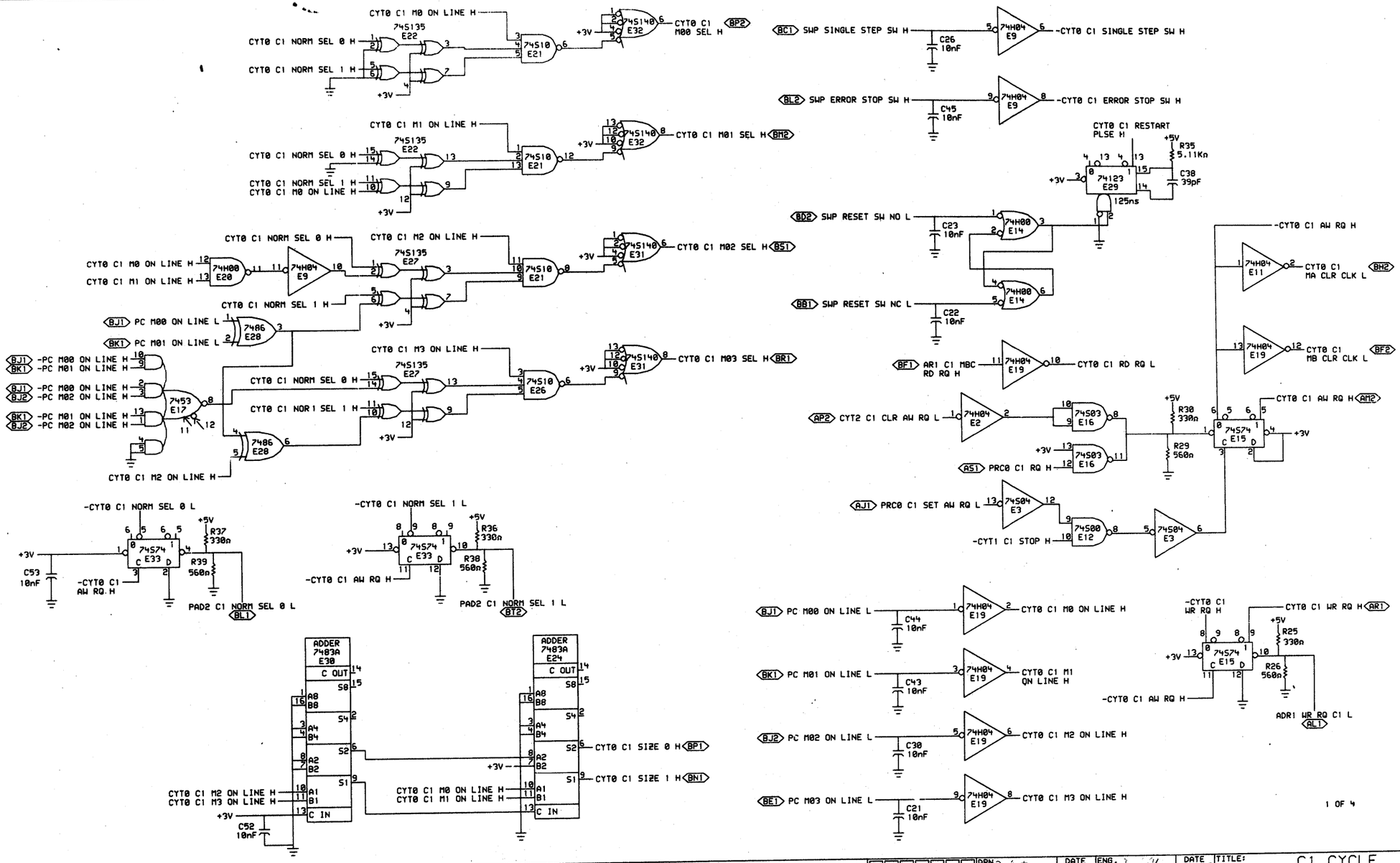
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. R. DeCosta DATE 5/13/75
CHK. D. Chin DATE 5/19/75
ENG. D. J. Chin DATE 5-6-75
BOARD LOCATION:
SHEET 1 OF 1
0C3[4,137] 21-APR-75 18:59
NEXT HIGHER ASSEMBLY: B-DD-MG10-0
FIRST USED ON OPTION/MODEL: MG10

TITLE: C0 CYCLE TIMING

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-0C3	*



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REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN: [illegible] DATE: 5/1/75 ENG. [illegible] DATE: 5-2-75
CHK [illegible] DATE: 5/15/75 BOARD LOCATIONS:
1C0[4,137] 23-APR-75 13:59 SHEET 1 OF 1
FIRST USED ON OPTION/MODEL: MG10 NEXT HIGHER ASSEMBLY: B-DD-MG10-0

TITLE: C1 CYCLE TIMING

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-1C0	*

NOTE: UNLESS OTHERWISE SPECIFIED THE FOLLOWING PINS APPLY.

PACKAGE TYPE	LOC	GND
DELAY LINE	DL1	1,14
DELAY LINE	DL3,DL5,DL6	1,9

BE2 PRC0 C1 MA STRBW H
-CYT0 C1 SINGLE STEP SW H
BC1 SWP SINGLE STEP SW H
CYT0 C1 RESTART PLSE H
74S03 E16
74S03 E16
+5V R21 470Ω
R20 560Ω
1610033 DL6 100 NS 214 313 412 511 610
+5V R32 470Ω
R33 560Ω
60ns W1
50ns W2
40ns W6
CYT1 C1 20µS L
74123 E23
+5V R34 21.5KΩ
C36 3300pF
20µs
+3V
CYT1 C1 ERROR PLSE H
74123 E23
+5V R31 5.11KΩ
C29 39pF
125ns
AV2 CYT1 C1 RUN H
-CYT0 C1 ERROR STOP SW H
74H00 E10
74H00 E10
CYT0 C1 RESTART PLSE H
-CYT0 C1 SINGLE STEP SW H
CYT2 C1 PWR RESTART L
74H00 E10
74H00 E10
74H04 E2
CYT1 C1 RESET PLSE L BD1
AN1 CAB C1 ST OF WR L
74H04 E2
+3V R23 147Ω
74H00 E8
R24 348Ω
CYT1 C1 STATE CLR H BA1
+3V R22 5.6KΩ
75452 E4
CYT1 C1 CBL INIT L AF1
+3V C4 10nF
74H04 E9
CYT1 C1 STATE CLR 1 L
74S140 E25
CYT1 C1 STATE CLR L BR2
+3V
+3V
74S10 E26
CYT1 C1 CYC START H
+3V
74S140 E25
CYT1 C1 CAB CYC START H BK2
74H04 E1
CYT1 C1 DO STRB 0 H AD1
74H04 E1
CYT1 C1 DO STRB 1 H AE2
74H04 E1
CYT1 C1 DO STRB 2 H AK2
74H04 E1
CYT1 C1 DO STRB 3 H AL2
74H04 E1
CYT1 C1 DO STRB 4 H AC1
74H00 E7
1611243 DL1 250 NS 3 4 5 6 7 9 10 11 12
+5V R3 220Ω
R5 270Ω
225ns
CYT1 C1 CYC START H
74H04 E2
CYT1 C1 CONTINUE PLSE H
74H04 E2
CYT1 C1 SET DOUT EN L
74S00 E12
1610033 DL5 100 NS 214 313 412 511 610
+5V R27 330Ω
R28 560Ω
100ns W3
90ns W4
80ns W5
74H00 E20
CYT1 C1 SET DIN EN L
-CYT0 C1 RD RQ H
BF1 AR1 C1 MBC RD RQ H
CYT1 C1 MB SEL H AT2
74H04 E11
74H04 E11
1610033 DL3 100 NS 214 313 412 511 610
+5V R19 330Ω
R18 560Ω
80ns
74H00 E7
CYT1 C1 STATE CLR 1 L
74H74 E13
CYT2 C1 DOUT EN CLR H
-CYT0 C1 WR RQ H
74H00 E20
74H04 E11
CYT1 C1 SET DIN EN L
CYT1 C1 SET DOUT EN L
74H00 E20
74H04 E11
AJ2 -CYT1 C1 DATA OUT EN L
+3V
75452 E4
+5V R1 5.6KΩ
CYT1 C1 CBL DO EN H AB1
AH1 -CYT1 C1 DATA IN EN H
CYT1 C1 DATA IN EN H AP1
74H74 E6
74H74 E6
CYT1 C1 SET DIN EN L
AJ1 PRC0 C1 SET AW RQ L
74H00 E7
CYT1 C1 STATE CLR 1 L
CYT2 C1 DOUT EN CLR H
AR1 CYT0 C1 WR RQ H
74H00 E7
CYT2 C1 DOUT EN CLR H
CYT1 C1 SET DOUT EN L
CYT1 C1 RUN H AV2
CYT1 C1 STATE CLR 1 L
74H74 E34
CYT1 C1 CYC START H
+3V
-CYT1 C1 STOP H
AR2 CYT1 C1 STOP H
AU2 CYT1 C1 INC RQ H
BD1 CYT1 C1 RESET PLSE L
CYT1 C1 ERROR PLSE H
BL2 SWP ERROR STOP SW H
74H74 E34
74H74 E13
+5V R40 330Ω
AS2 CHK1 C1 SET STOP L
R41 560Ω
+3V
2 OF 4

REVISIONS

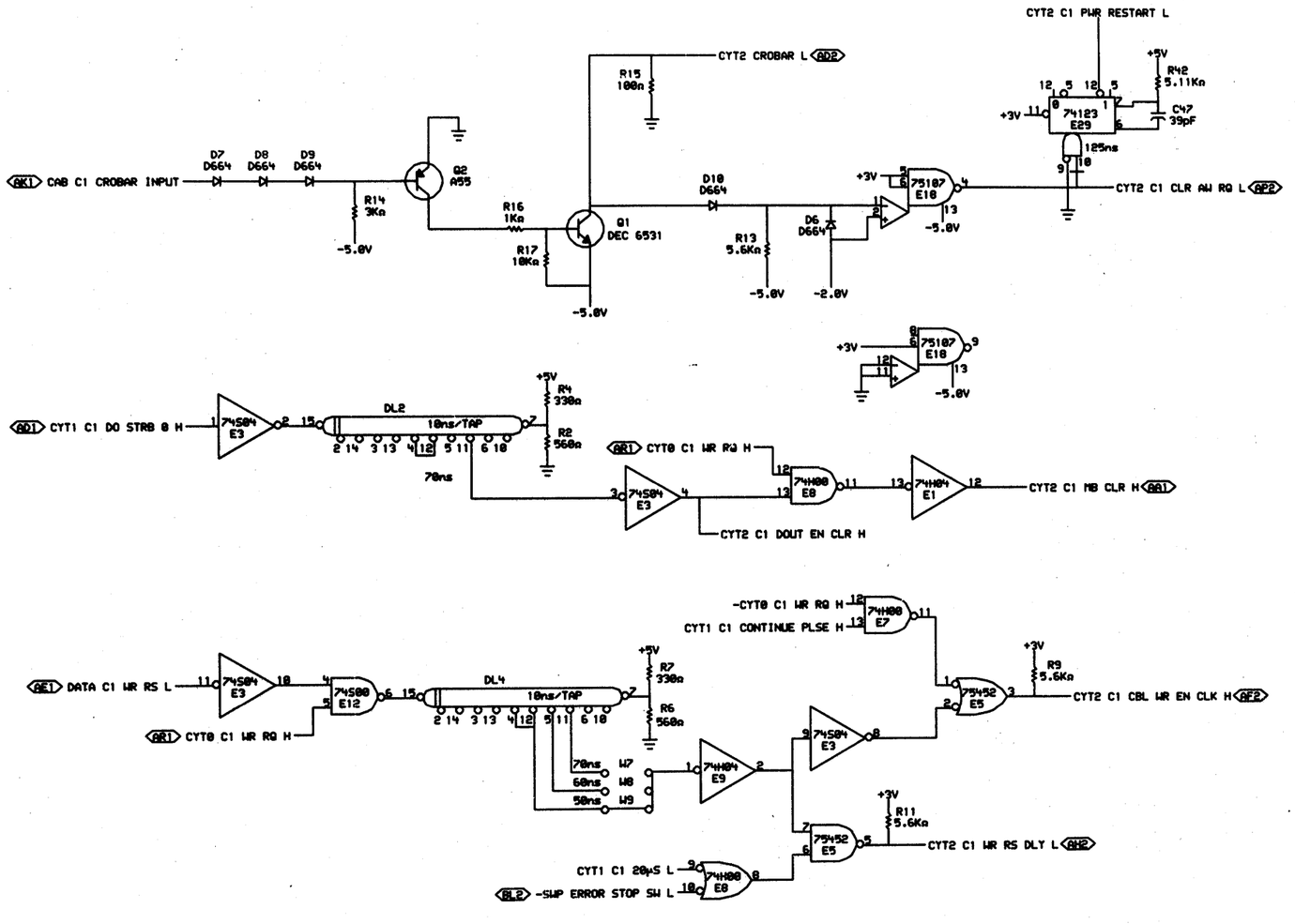
CHK	CHANGE NO.	REV

digital

DRN. W. Hamblen DATE 5/23/75
CHK D. DATE 5/27/75
ENG. D.J. Chin DATE 5-23-75
BOARD LOCATION:
SHEET 1 OF 1
IC[4,137] 22-MAY-75 07:38
NEXT HIGHER ASSEMBLY: B-DD-MG10-0
FIRST USED ON OPTION/MODEL: MG10

TITLE: C1 CYCLE TIMING

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-1C1	*



NOTE: UNLESS OTHERWISE SPECIFIED THE FOLLOWING PINS APPLY.

PACKAGE TYPE	LOC	GND
DELAY LINE	DL2,DL4	1,9

3 OF 4

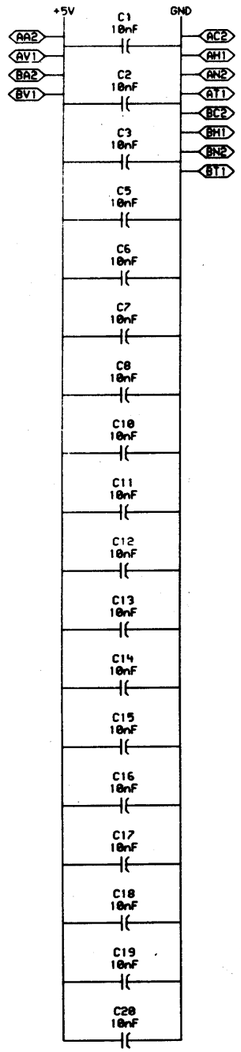
REVISIONS		
CHK	CHANGE NO.	REV
MAA	MG10-MR011	A
	30-AUG-77	
	SALES	

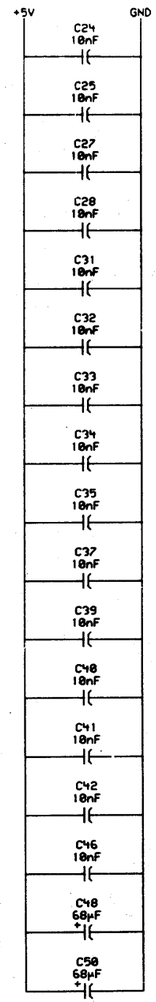
digital

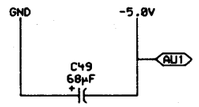
DRN. [illegible] DATE 31-AUG-77
ENG. [illegible] DATE 9/1/77
CHK [illegible] DATE 9/9/77
BOARD LOCATION:
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-MG10-0
FIRST USED ON OPTION/MODEL: MG10
C2.DRW[4,207] 31-AUG-77 12:24

TITLE: C1 CYCLE TIMING

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-1C2	A







THE FOLLOWING ARE CONNECTOR PINS
WHICH ARE NOT CONNECTED TO ETCH
ON THIS MODULE:

AB2	BB2
	BM1
	BS2
	BU1
	BU2
	BV2

4 OF 4

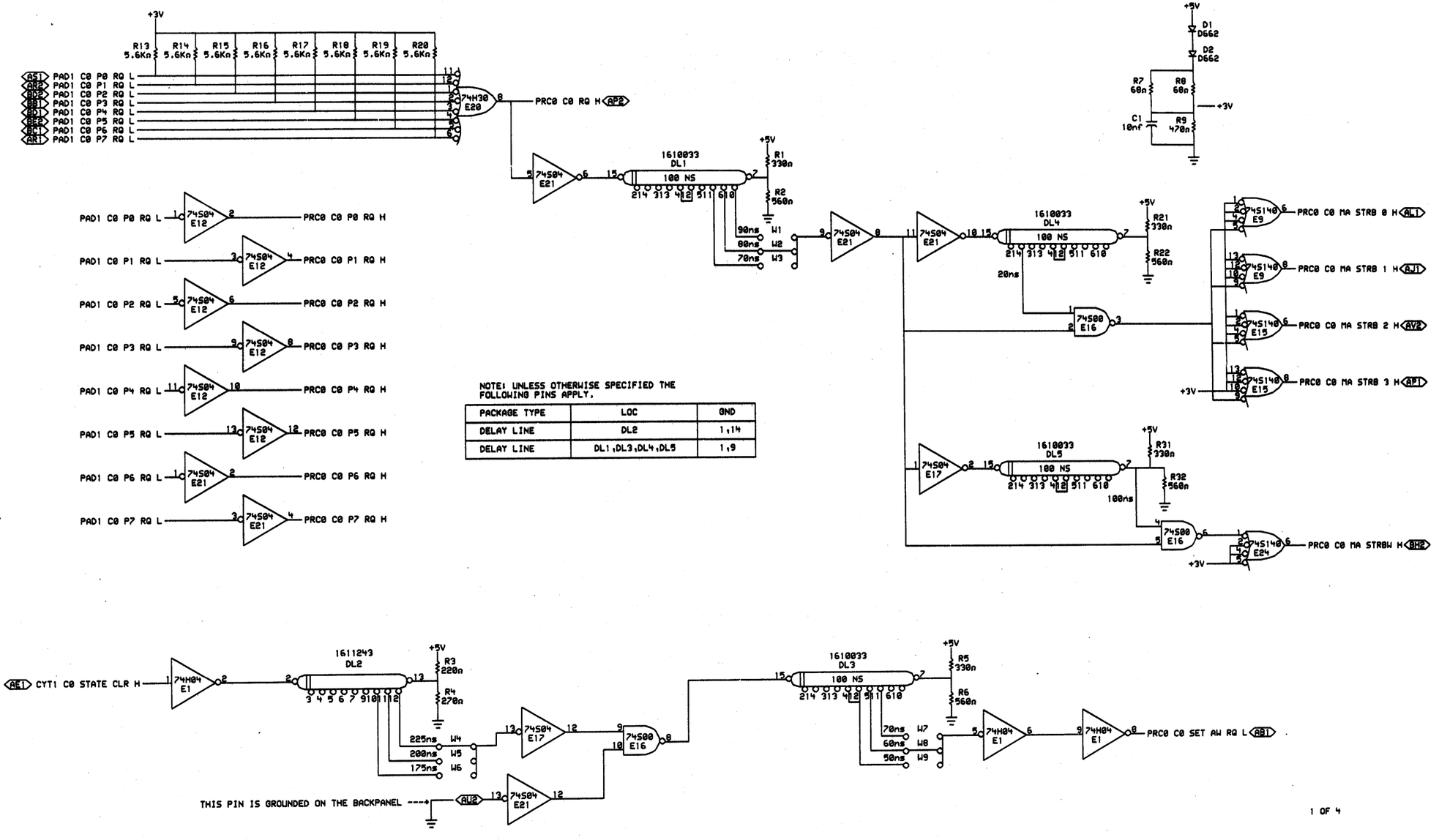
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. | DATE | ENG. J. V. Chin | DATE 5-5-75
CHK D. [illegible] | DATE 6/9/75 | BOARD LOCATION: | SHEET 1 OF 1
1C2(4,13?) 21-APR-75 10:59 | NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MG10 | B-DD-MG10-0

TITLE: C1 CYCLE TIMING

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-1C3	*



1 OF 4

REVISIONS

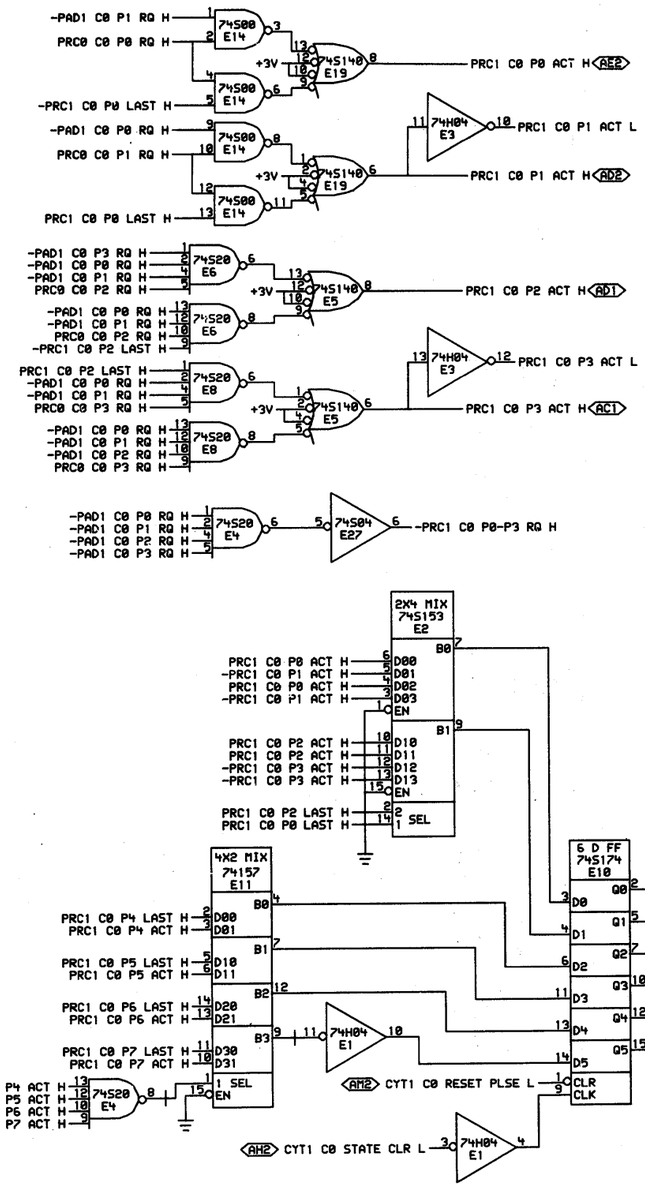
CHK	CHANGE NO.	REV

digital

DRN. RJ DATE 5/9/75
CHK'D DATE 5/9/75
ENG. D. J. Chin DATE 5-6-75
0PC0(4,1327) 22-APR-75 15:27
BOARD LOCATION:
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-MG10-0
FIRST USED ON OPTION/MODEL: MG10

TITLE: C0 PRIORITY CONTROL

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-0PC0	*



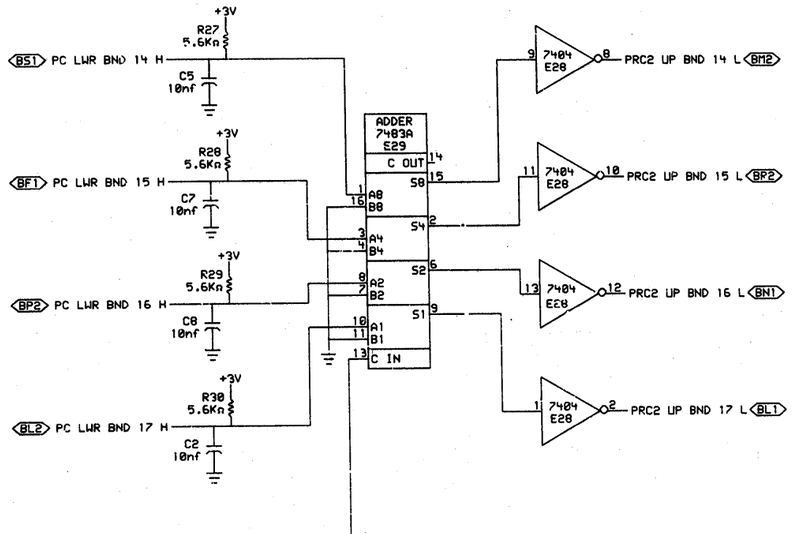
REVISIONS		
CHK	CHANGE NO.	REV

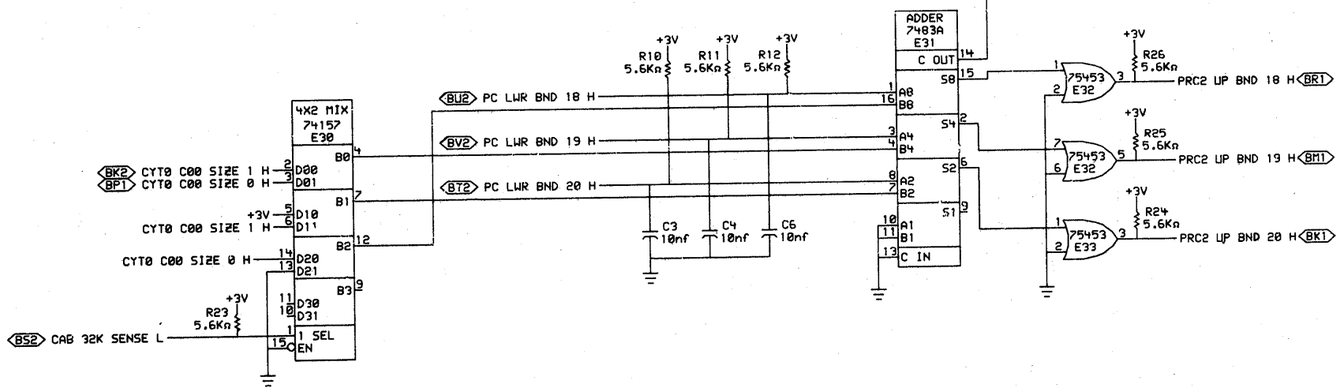
digital

DRN. W. Hampsten DATE 5/23/75
CHK'D DATE 5/23/75
ENG. D. J. Chun DATE 5-23-75
BOARD LOCATION:
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-MG10-0
FIRST USED ON OPTION/MODEL: MG10
0PC1[4,132] 22-MAY-75 10:24

TITLE: C0 PRIORITY CONTROL

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-0PC1	*





3 OF 4

REVISIONS

CHK	CHANGE NO.	REV

digital

DRN. DCK'D | DATE | ENG. D J Chin | DATE 5-6-75 | BOARD LOCATIONS: 5/17D | SHEET 1 OF 1

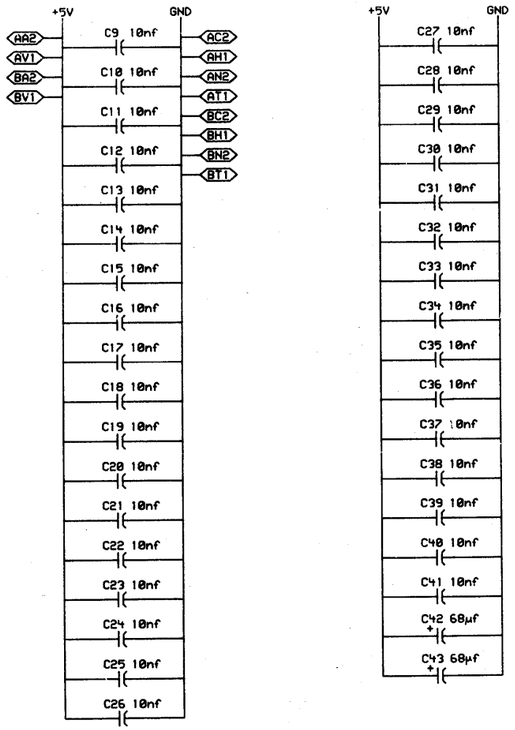
0PC2[4,137] 23-APR-75 15:30

FIRST USED ON OPTION/MODEL: MG10

NEXT HIGHER ASSEMBLY: B-DD-MG10-0

TITLE: C0 PRIORITY CONTROL

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-0PC2	*



4 OF 4

REVISIONS		
CHK	CHANGE NO.	REV

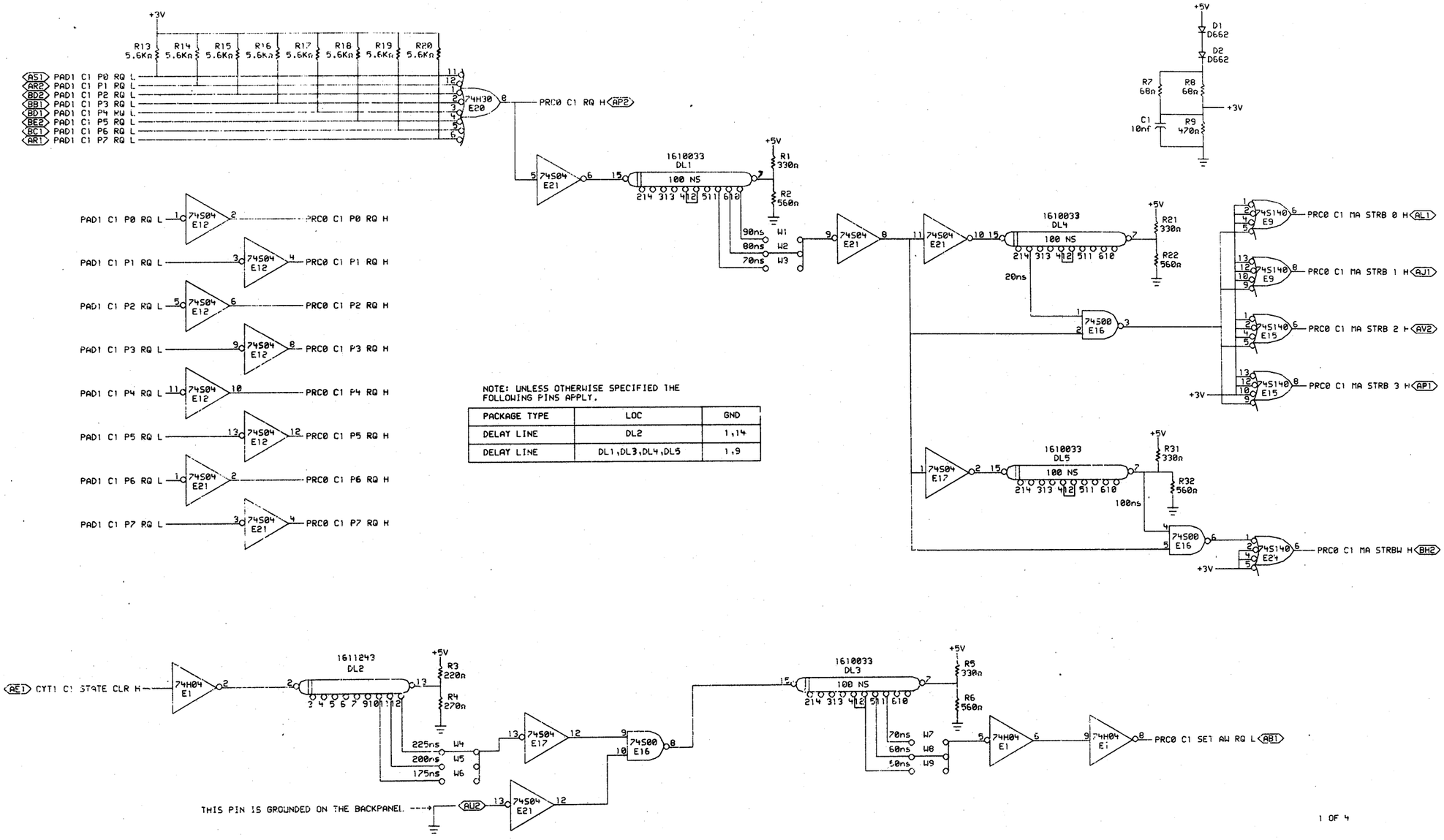
digital

DRN. R. DeLoy
CHK'D
DATE 5/9/75
ENG. D. J. Chin
DATE 5-16-75
BOARD LOCATION:
SHEET 1 OF 1
0PC3[4,137] 09-MAY-75 13:07
NEXT HIGHER ASSEMBLY: B-DD-MG10-0
FIRST USED ON OPTION/MODEL: MG10

TITLE: C0 PRIORITY CONTROL

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-0PC3	*

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-0PC3	*



1 OF 4

REVISIONS

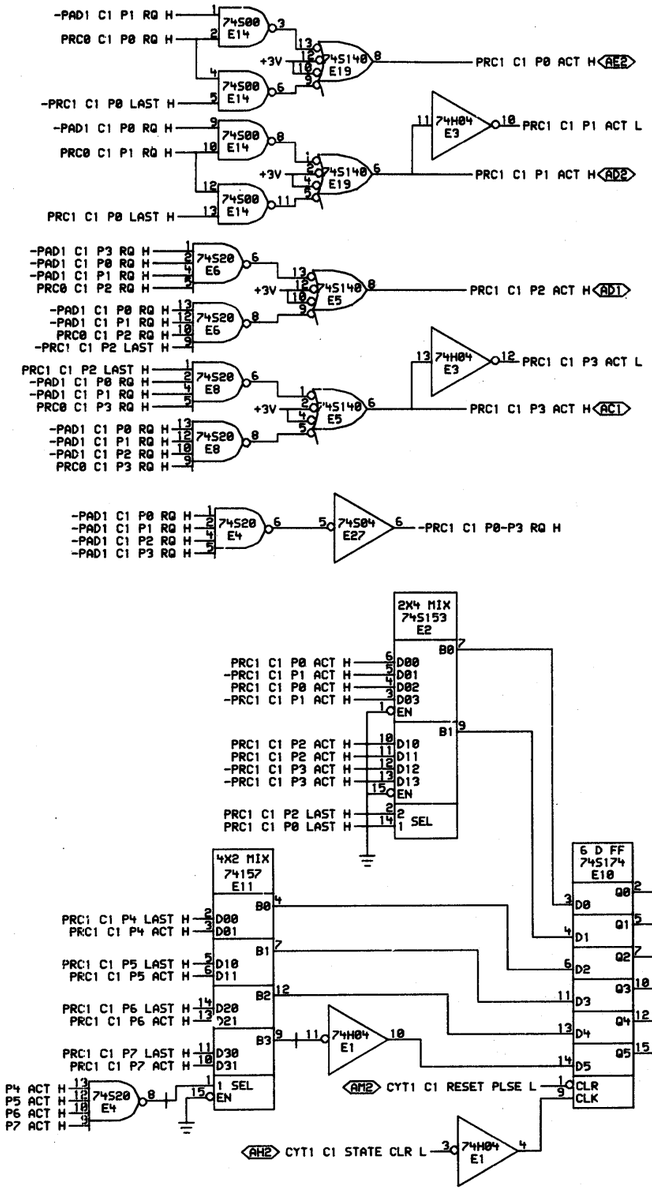
CHK	CHANGE NO.	REV

digital

DRN. | DATE 5/1/75 | ENG. D. J. Chen | DATE 5-6-75
CHK D | DATE 5/9/75 | BOARD LOCATION: | SHEET 1 OF 1
19C0L4,1371 | 23-APR-75 15:34 | NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MG10 | B-DD-MG10-0

TITLE: C1 PRIORITY CONTROL

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-1PC0	*



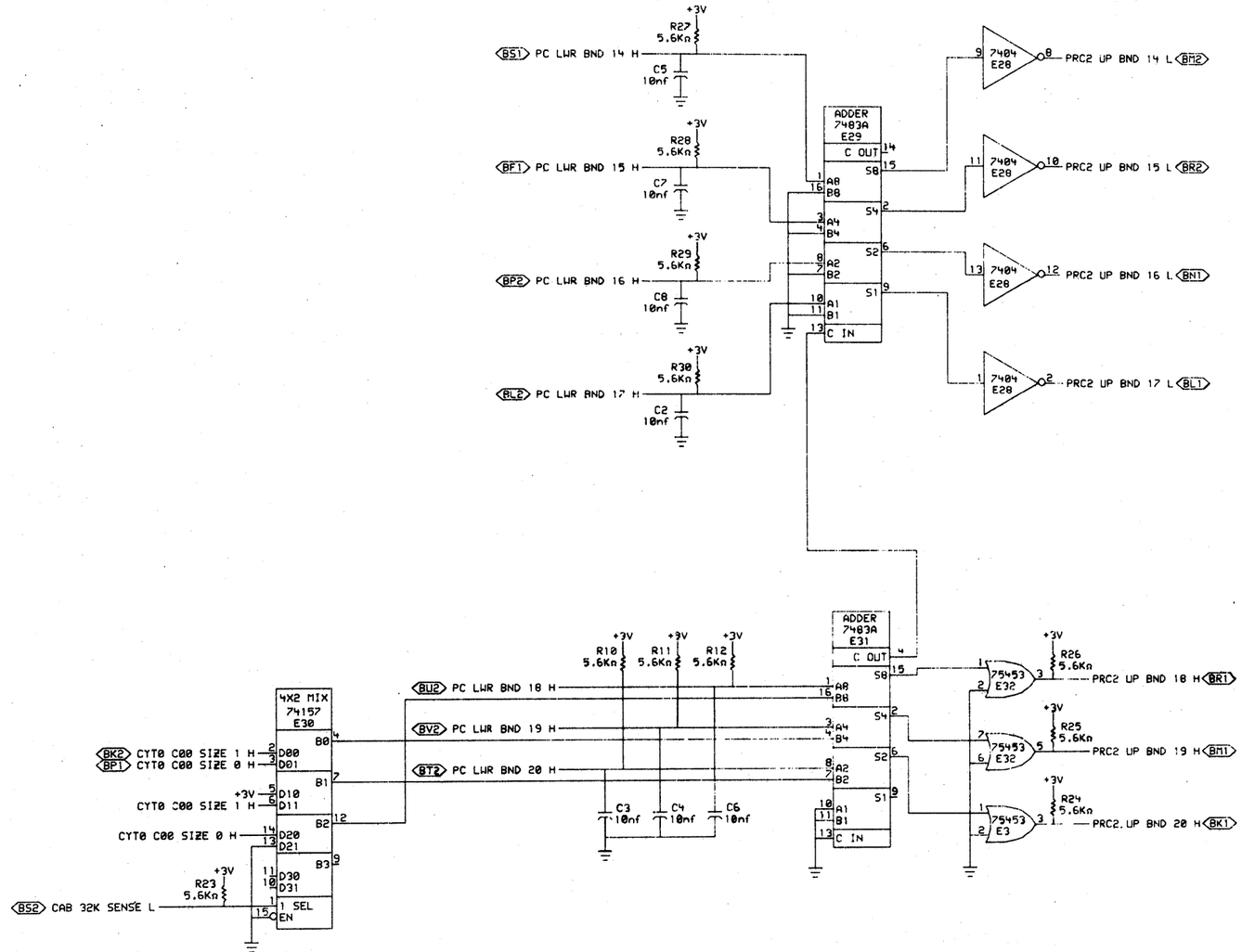
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. J. Hamann DATE 5/23/75
CHK'D. DATE
ENG. D. J. Chen DATE 5-23-75
BOARD LOCATION:
SHEET 1 OF 1
1PC1[4,137] 22-MAY-75 10:28
NEXT HIGHER ASSEMBLY: B-DD-MG10-0
FIRST USED ON OPTION/MODEL: MG10

TITLE: C1 PRIORITY CONTROL

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-1PC1	*



3 OF 4

REVISIONS

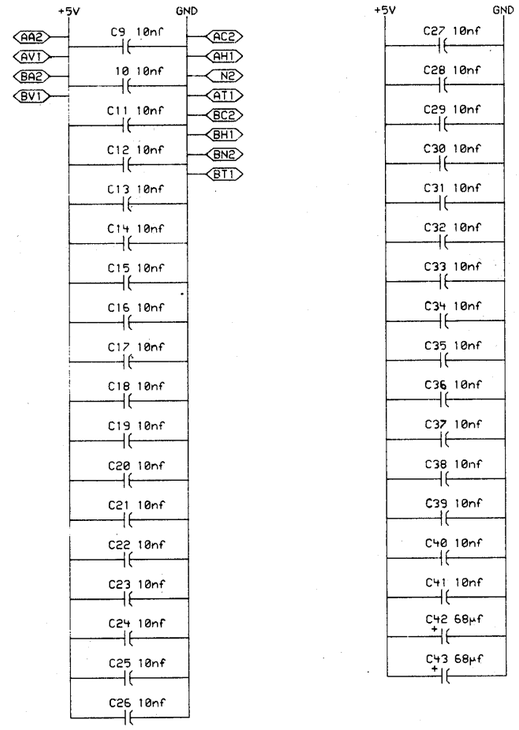
CHK	CHANGE NO.	REV

digital

DRN. C
CHK D.
DATE
ENG. D. J. Chan DATE 5-6-75
DATE
BOARD LOCATION:
SHEET 1 OF 1
1PC2[4,132] 23-APR-75 15:38
NEXT HIGHER ASSEMBLY: B-DD-MG10-0
FIRST USED ON OPTION/MODEL: MG10

TITLE: C1 PRIORITY CONTROL

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-1PC2	*



4 OF 4

REVISIONS		
CHK	CHANGE NO.	REV

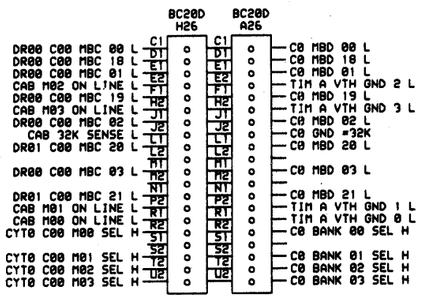
digital

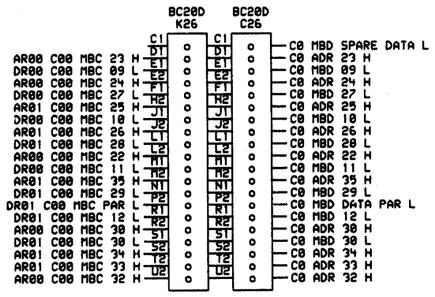
DRN. K. DeVoire DATE 5/7/75
CHK D. Hall DATE 5/8/75
ENG. D. Chan DATE 5-14-75
BOARD LOCATION:
SHEET 1 OF 1
1PC3[4,137] 09-MAY-75 13:08
FIRST USED ON OPTION/MODEL: MG10
NEXT HIGHER ASSEMBLY: B-DD-MG10-0

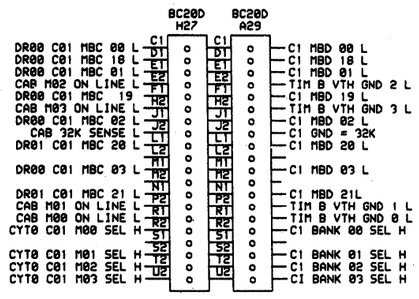
TITLE: C1 PRIORITY CONTROL

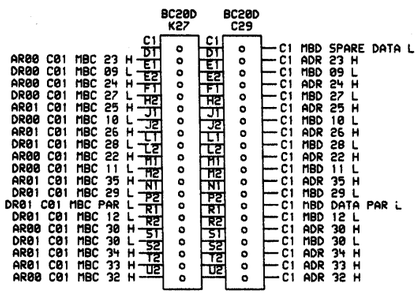
SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-1PC3	*

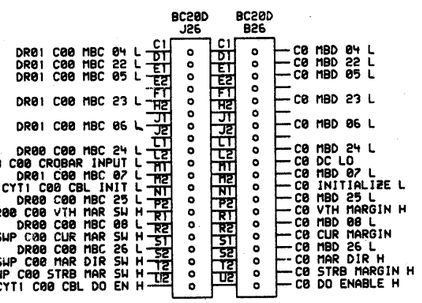
SIZE D | CODE BS | NUMBER MG10-0-1PC3 | REV. *

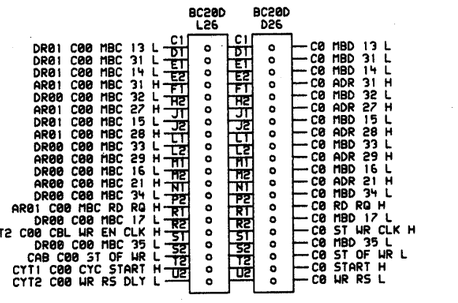


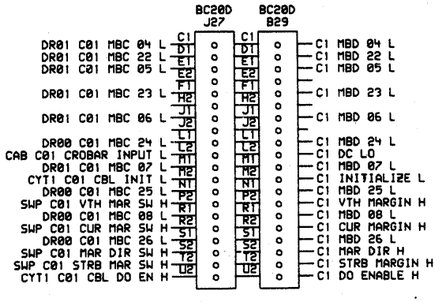


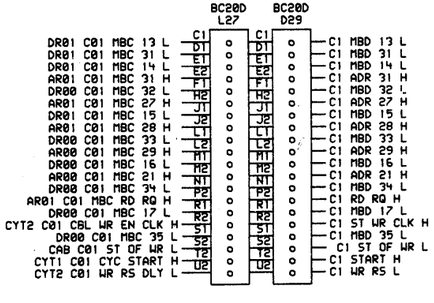












CABLES FROM CONTROL LOGIC

TO STACK LOGIC

REVISIONS		
CHK	CHANGE NO.	REV

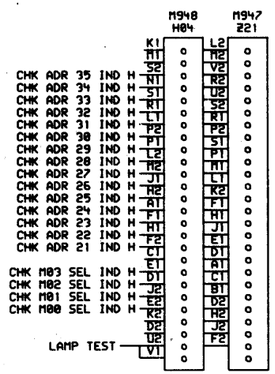
digital — DRN. HL — DATE 5/13/75 — ENG. D. J. Chu — DATE 5-2-75 — CHK. — DATE 5/13/75

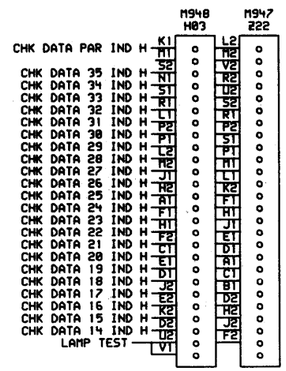
CBL04.22) 29-APR-75 09:26 — BOARD LOCATION: — SHEET 1 OF 1

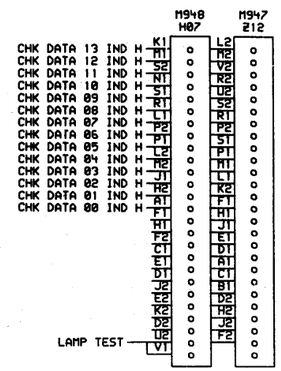
FIRST USED ON OPTION/MODEL: MG10 — NEXT HIGHER ASSEMBLY: B-DD-MG10-0

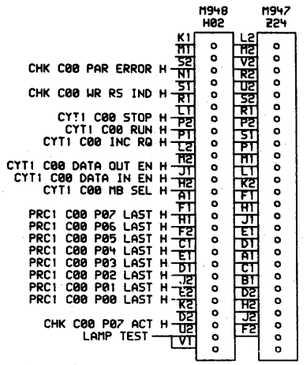
TITLE: INTERNAL CABLES AND JUMPERS

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-CBL0	*

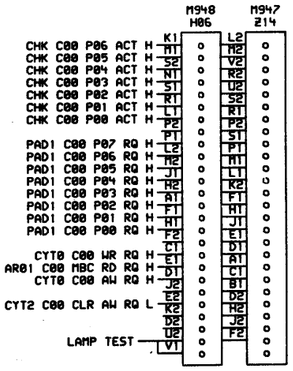


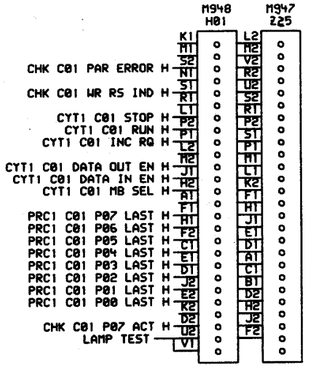


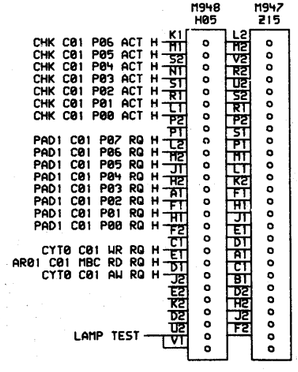




CABLES FROM CONTROL LOGIC
TO INDICATOR PANEL







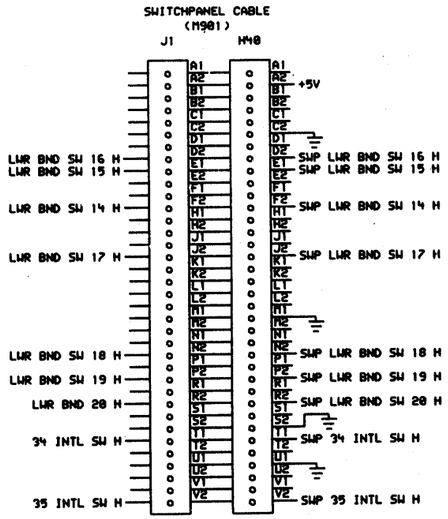
REVISIONS

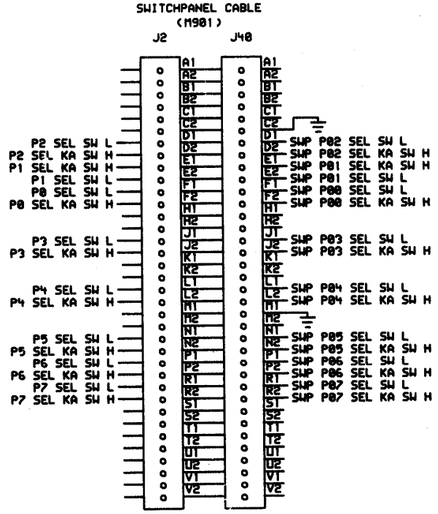
CHK	CHANGE NO.	REV

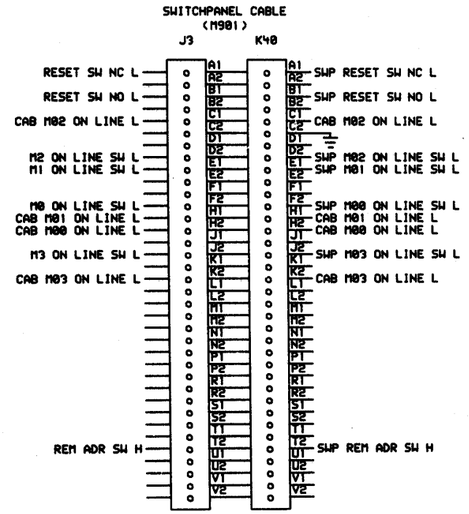
DRN.
CHK'D:
DATE
ENG.
DATE 5-2-75
DATE/BOARD LOCATION:
5/1/75 SHEET 1 OF 1
CBLI(4,22) 24-APR-75 10:53 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MG10 B-DD-MG10-0

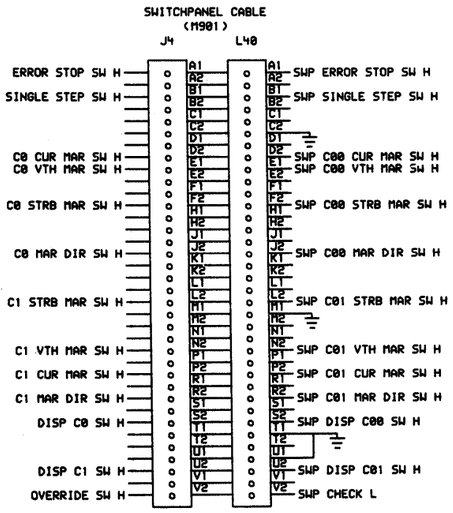
TITLE: INTERNAL CABLES AND JUMPERS

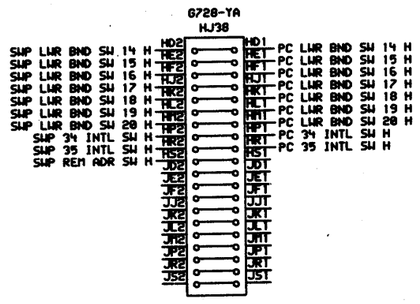
SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-CBL1	*

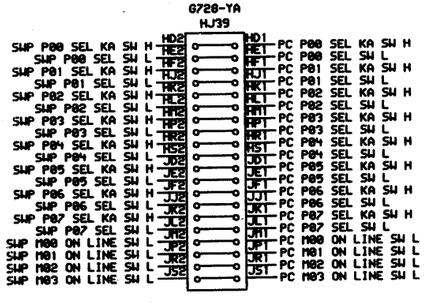












CABLES FROM
SWITCH PANEL
TO CONTROL LOGIC

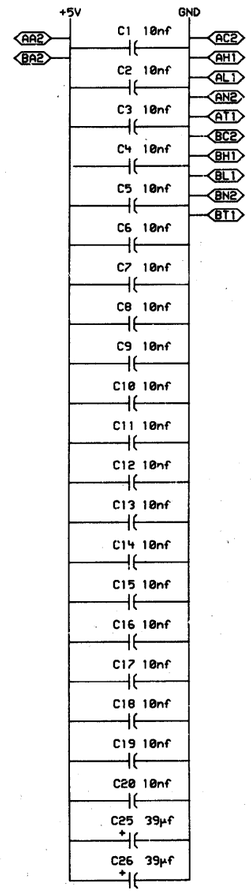
REVISIONS		
CHK	CHANGE NO.	REV

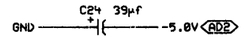
digital

DRN. K. Davidson DATE 5-2-75
CHK'D [illegible] DATE 5/9/75
ENG. D J Chin DATE 5-2-75
BOARD LOCATION:
SHEET 1 OF 1
CBL2(4.22) 25-APR-75 03:52
NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MG10 B-DD-MG10-0

TITLE: INTERNAL CABLES AND JUMPERS

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-CBL2	*





1 OF 3

REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. | DATE 5/19/75 | ENG. D. J. Chen | DATE 5-6-75 | CHK 'D' | DATE 5/19/75

0ST0[4,137] 21-APR-75 10:59

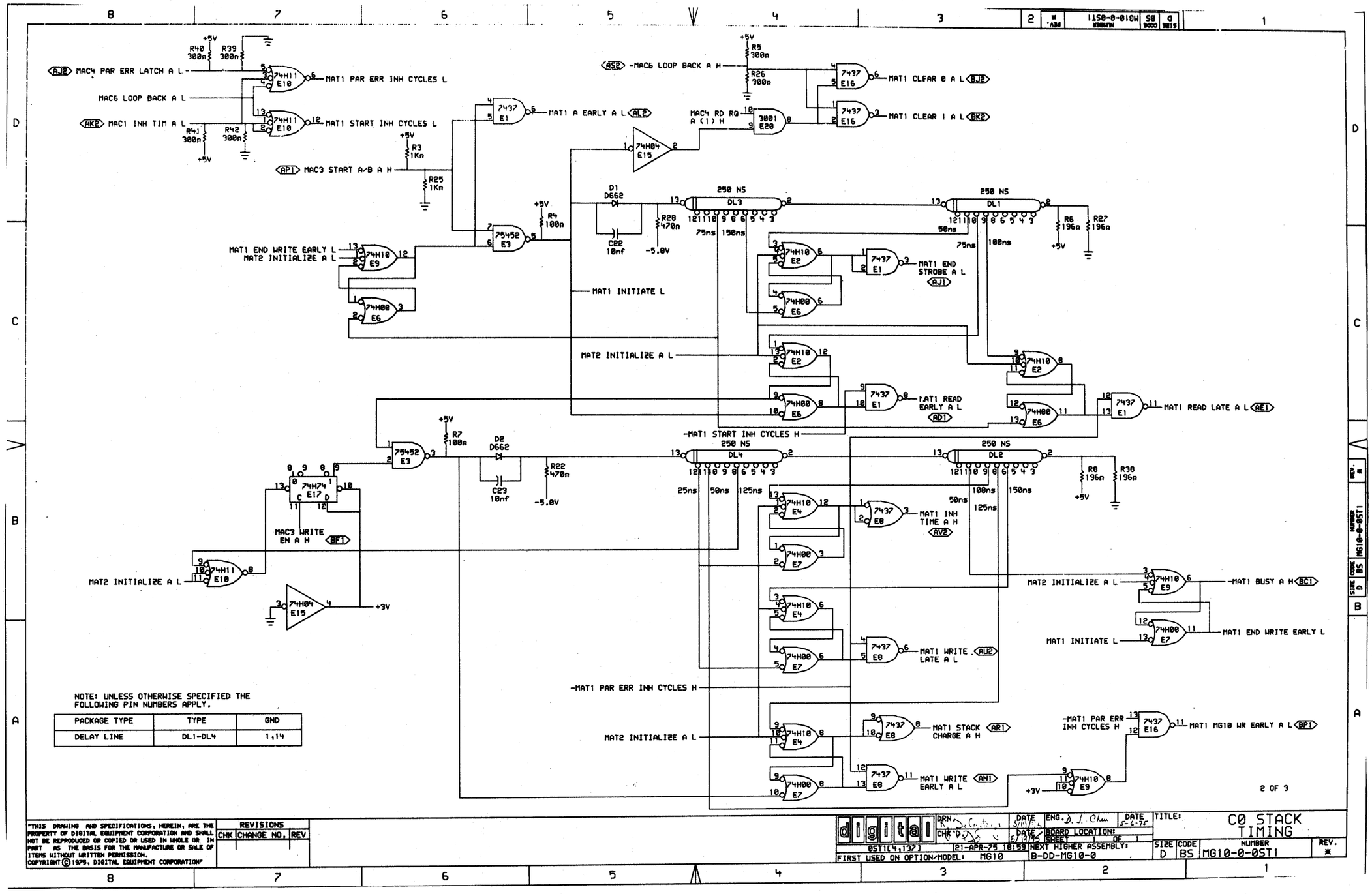
BOARD LOCATION: | SHEET 1 OF 1 | NEXT HIGHER ASSEMBLY: B-DD-MG10 -0

FIRST USED ON OPTION/MODEL: MG10

TITLE: C0 STACK TIMING

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-0ST0	*

SIZE D | CODE BS | NUMBER MG10-0-0ST0 | REV. *



NOTE: UNLESS OTHERWISE SPECIFIED THE FOLLOWING PIN NUMBERS APPLY.

PACKAGE TYPE	TYPE	GND
DELAY LINE	DL1-DL4	1,14

2 OF 3

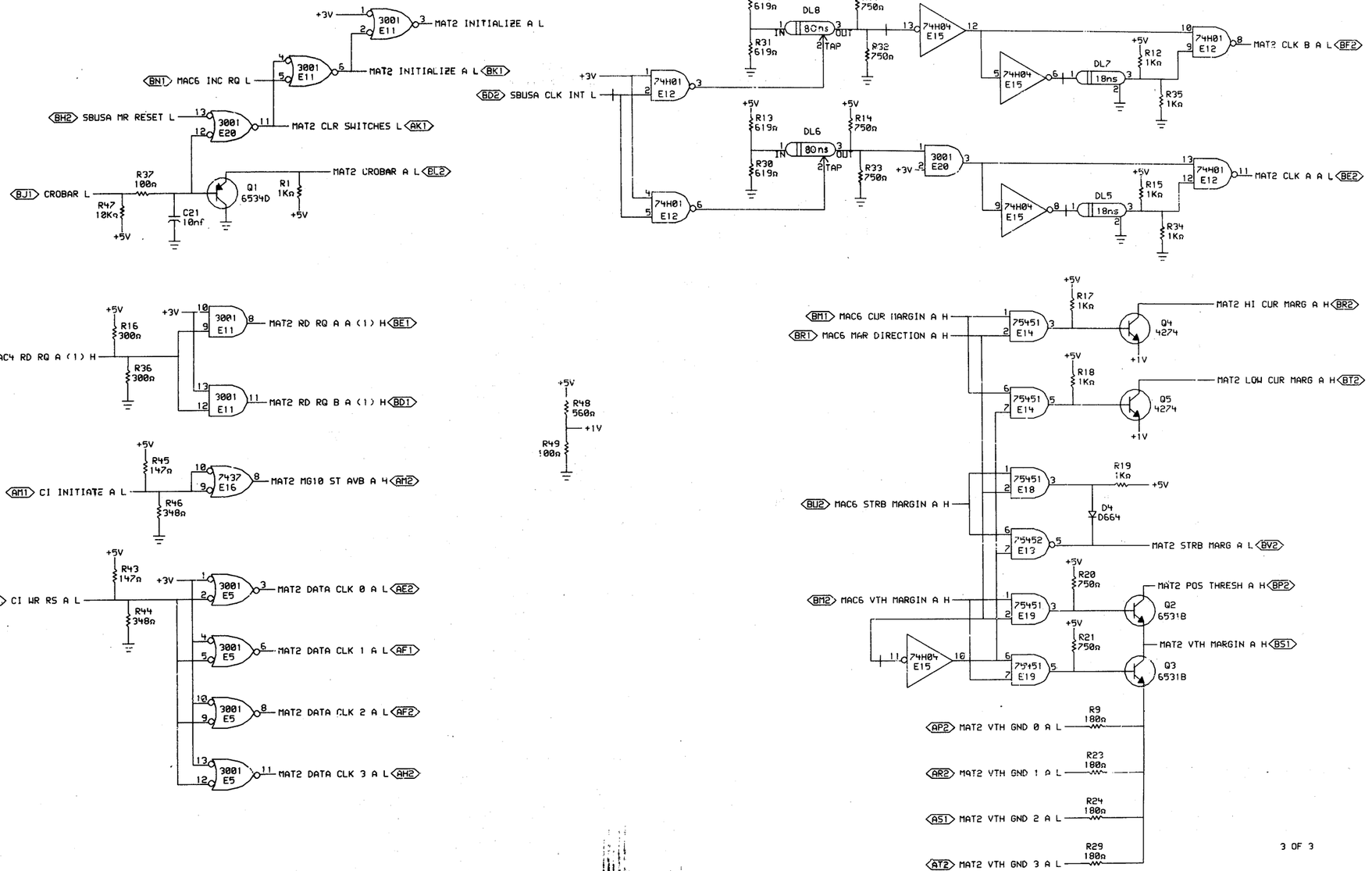
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. | DATE 5/6/75
CHK'D | DATE 5/6/75
ENG. D. J. Chen | DATE 5-6-75
0ST1(4,132) 21-APR-75 18:59
BOARD LOCATION:
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-MG10-0
FIRST USED ON OPTION/MODEL: MG10

TITLE: C0 STACK TIMING

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-0ST1	*



3 OF 3

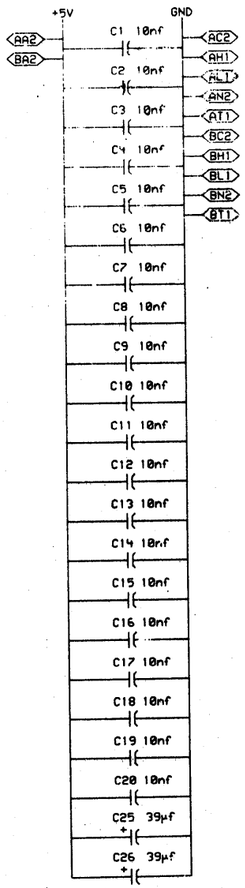
REVISIONS		
CHK	CHANGE NO.	REV

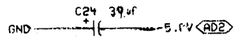
digital	DRN. W. Hamblin	DATE 6/4/75	ENG. J. Cline
	CHK'D.	DATE 6/4/75	BOARD LOCATION:
			SHEET 1 OF 1

05T2[4,13,7] 04-JUN-75 09:22 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MG10 B-DD-MG10-0

TITLE: C0 STACK TIMING

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-0ST2	*





1 OF 3

REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. | DATE | ENG. | DATE | CHK | DATE

1ST0[4,137] 21-APR-75 18:59

FIRST USED ON OPTION/MODEL: MG10

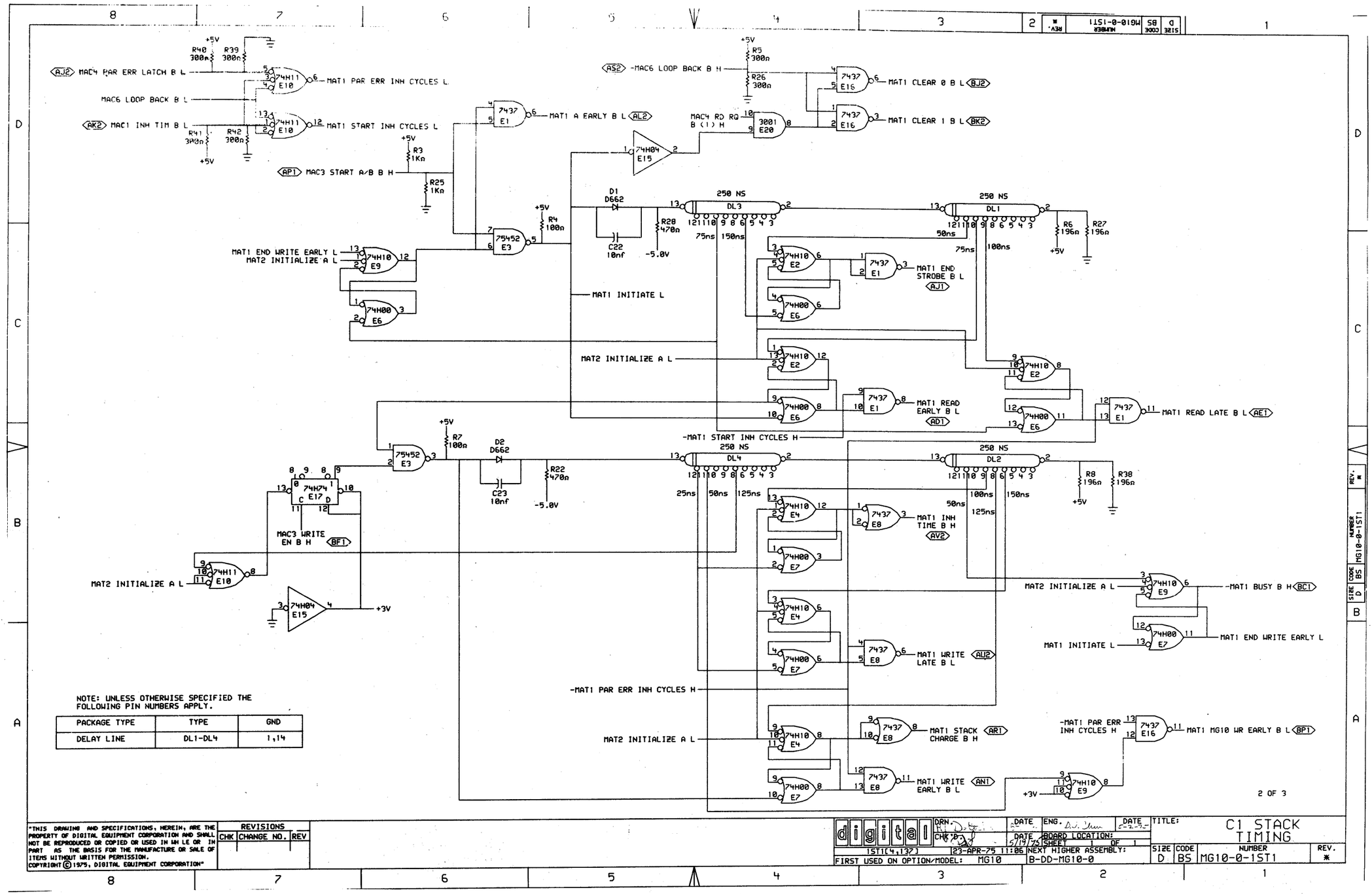
BOARD LOCATION:

SHEET 1 OF 1

NEXT HIGHER ASSEMBLY: B-DD-MG10 -0

TITLE: C1 STACK TIMING

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-1ST0	*



NOTE: UNLESS OTHERWISE SPECIFIED THE FOLLOWING PIN NUMBERS APPLY.

PACKAGE TYPE	TYPE	GND
DELAY LINE	DL1-DL4	1,14

2 OF 3

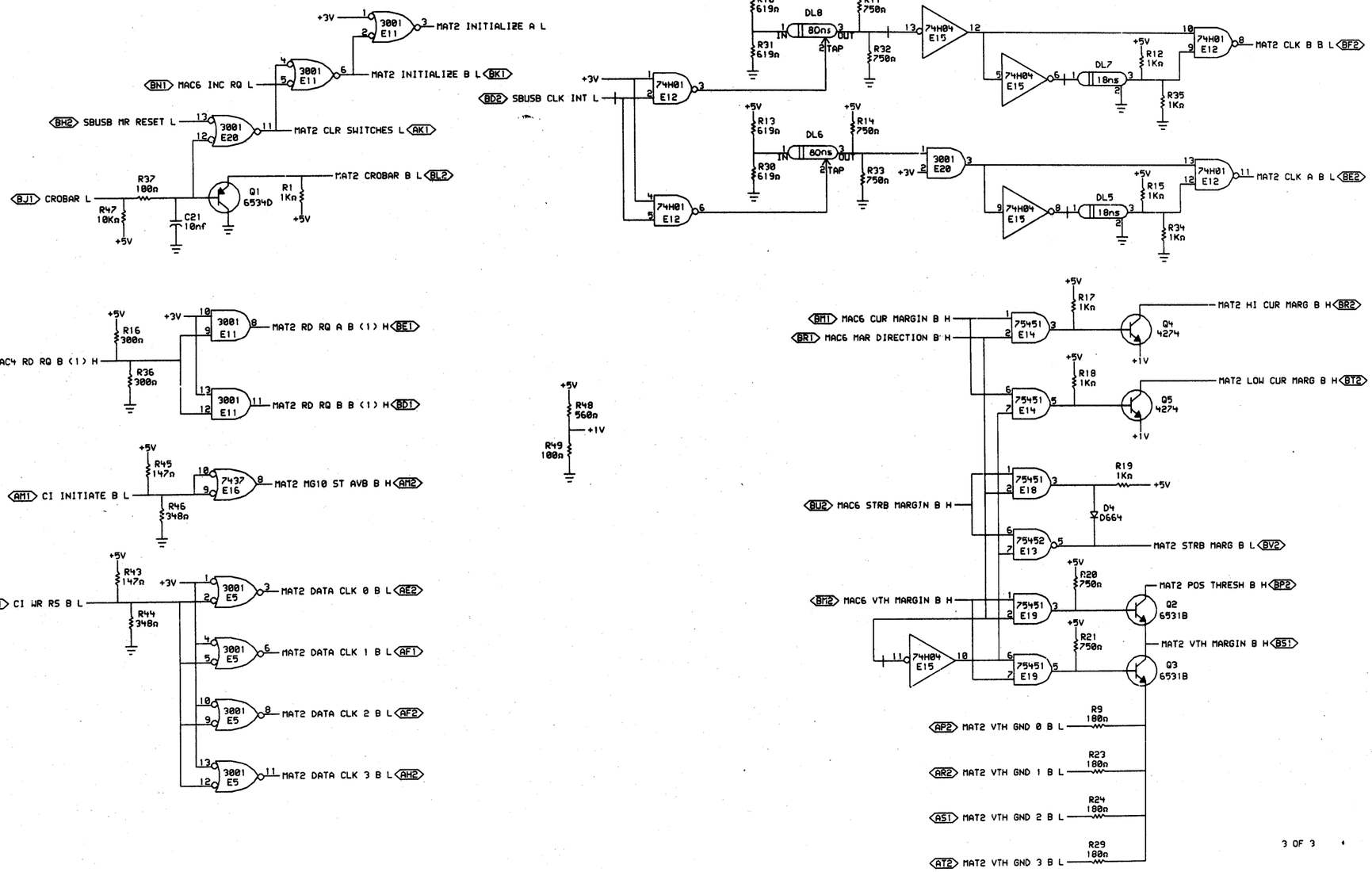
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. D.F. DATE 5/19/75
CHK D.D. DATE 5/19/75
ENG. D.J. Thom DATE 5-7-75
1STIC4,137] 23-APR-75 11:06
BOARD LOCATION:
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MG10 B-DD-MG10-0

TITLE: C1 STACK TIMING

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-1ST1	*



3 OF 3

REVISIONS

CHK	CHANGE NO.	REV

digital

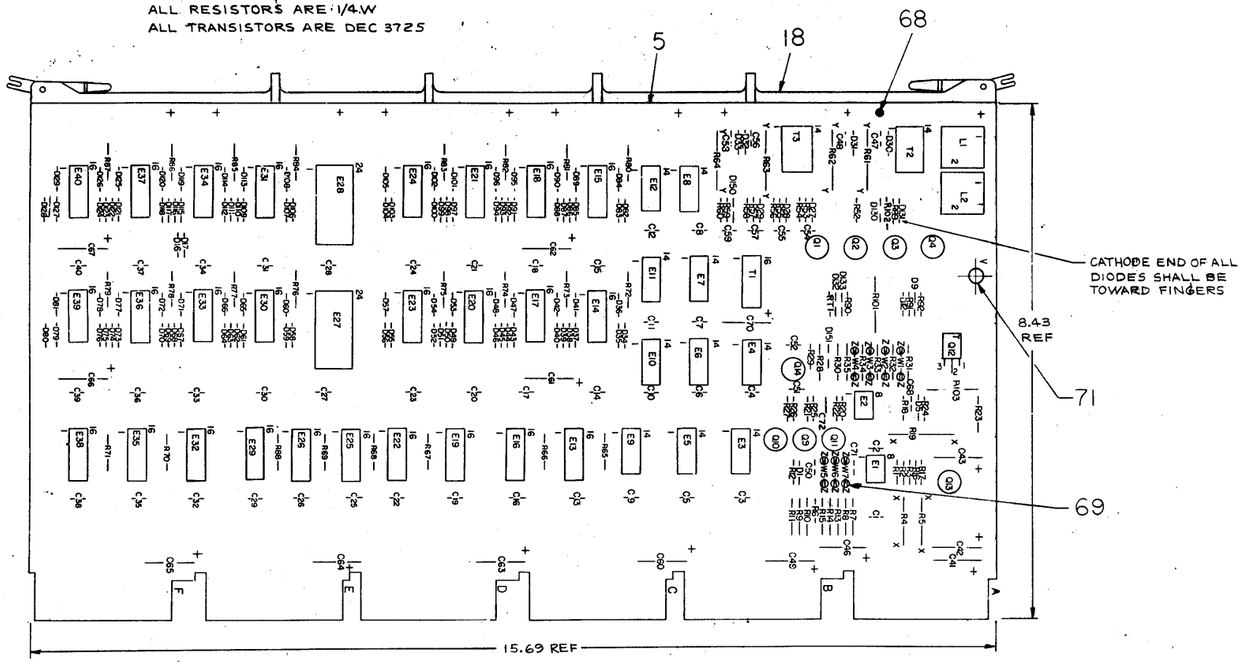
DRN. J. Hamlin — DATE 3/7/75
CHK'D. — DATE 6/17/75
ENG. D J Chen — DATE 6-9-75
BOARD LOCATION:
SHEET 1 OF 1
1ST2(4.137) 04-JUN-75 09:22
NEXT HIGHER ASSEMBLY: B-DD-MG10-0
FIRST USED ON OPTION/MODEL: MG10

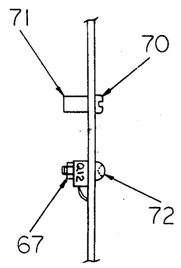
TITLE: C1 STACK TIMING

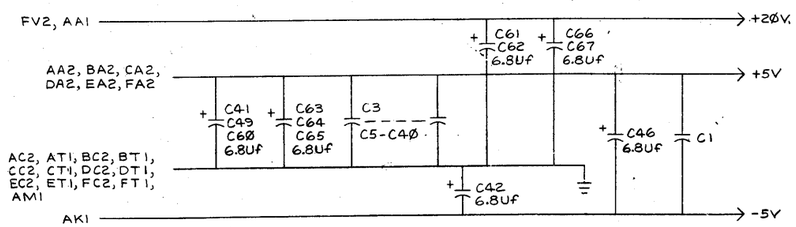
SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-1ST2	*

NOTES:

1. * INDICATES NOT USED ON MFII-U & MFII-UP (2 PLACES).
2. ** INDICATES NOT USED ON MFII-U & MFII-UP, BUT ARE TIED TO UNUSED TERMINATORS ON THE G114 MODULE, WHICH FORCES THEM TO +3V (5 PLACES).
3. 2 THERMISTOR LOCATED ON H217 STACK MODULE, 1 ON G235
4. UNLESS OTHERWISE INDICATED;
   ALL DIODES ARE D6.72
   ALL CAPACITORS ARE .01 UF
   ALL RESISTORS ARE 1/4 W
   ALL TRANSISTORS ARE DEC 3725







IC TYPE	GND	+ 5V	+20V
74121	7	—	—
741	—	—	—
75325	—	9	16
7442	8	16	—
74154	12	24	—

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE

IC PIN LOCATIONS

DRAWING 40-522 16699

DEC FORM NO. DRD-135A

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

FIRST USED ON OPTION MODEL: MF11-U & MF11-UP

ETCH BOARD REV: D

REV	CHANGE NO.	DEC NO.	EIA NO.
CHK		DEC NO.	EIA NO.

SEMICONDUCTOR CONVERSION CHART

		DATE
DRN.		4-4-73
CHK'D. MACHAND		4-6-73
ENG.		4/4/73
PROJ. ENG.		4/4/73
PROD.		4/4/73

NEXT HIGHER ASSY

SCALE

SHEET 2 OF 6

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: 16K X-Y DRIVE

SIZE D | CODE CS | NUMBER G235-Ø-1 | REV. P

DIST.

SIZE D | CODE CS | NUMBER G235-Ø-1 | REV P

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	E6	ICDEC 74H04	1909931	62
1	E10	ICDEC 74H10	1909057	63
2	E7.E11	ICDEC 74H40	1905586	64
24	E13-E18,E20-E26,E29-E31, E33-E40	IC DEC 75325	1910960	65
2	E9.E12	ICDEC 74H50	1909060	66
1		KEPNUT 4-40	9006557	67
12		EYELET HANDLE	9006732	68
14		SPLIT LUGS	9006735	69
1		SCREW NYLON 8-32	9008212-1	70
1		STAND OFF 1/4 X 3/8	9008213	71
1		SCREW (PHILLIPS PAN HEAD)4-40 X 5/16	9006010-1	72
1	R31	RES 19.6K 1/8W 1%	1309419	73
AR	W1-W7	WIRE #22 AWG (SOLID)	9107560-1	74
1	R91,	RES 180Ω 1/4W 5%	1301322	75
1	D133	DIODE ZENER 1N752A 5.6V 1%	1102808-1	76
1	R92	RES 150Ω 1/4W 5%	1300250	77
2	C47, C56	CAP. .022UF 50V	1011683	78
1	RT1	THERMISTER 300Ω 2%	1309785	79
1	R102	RES 330Ω 1/4W 5%	1300295	80
1	Q11	TRANS. DEC 4258	1505321	81
1	E3	I.C. DEC 74H20	1905635	82
1	R7	RES. 9.09K 1/8W 1%	1304855	83
1	R103	RES. 75Ω 1W 5%	1305281	84
A/R		WIRE #30	9105740-55	85

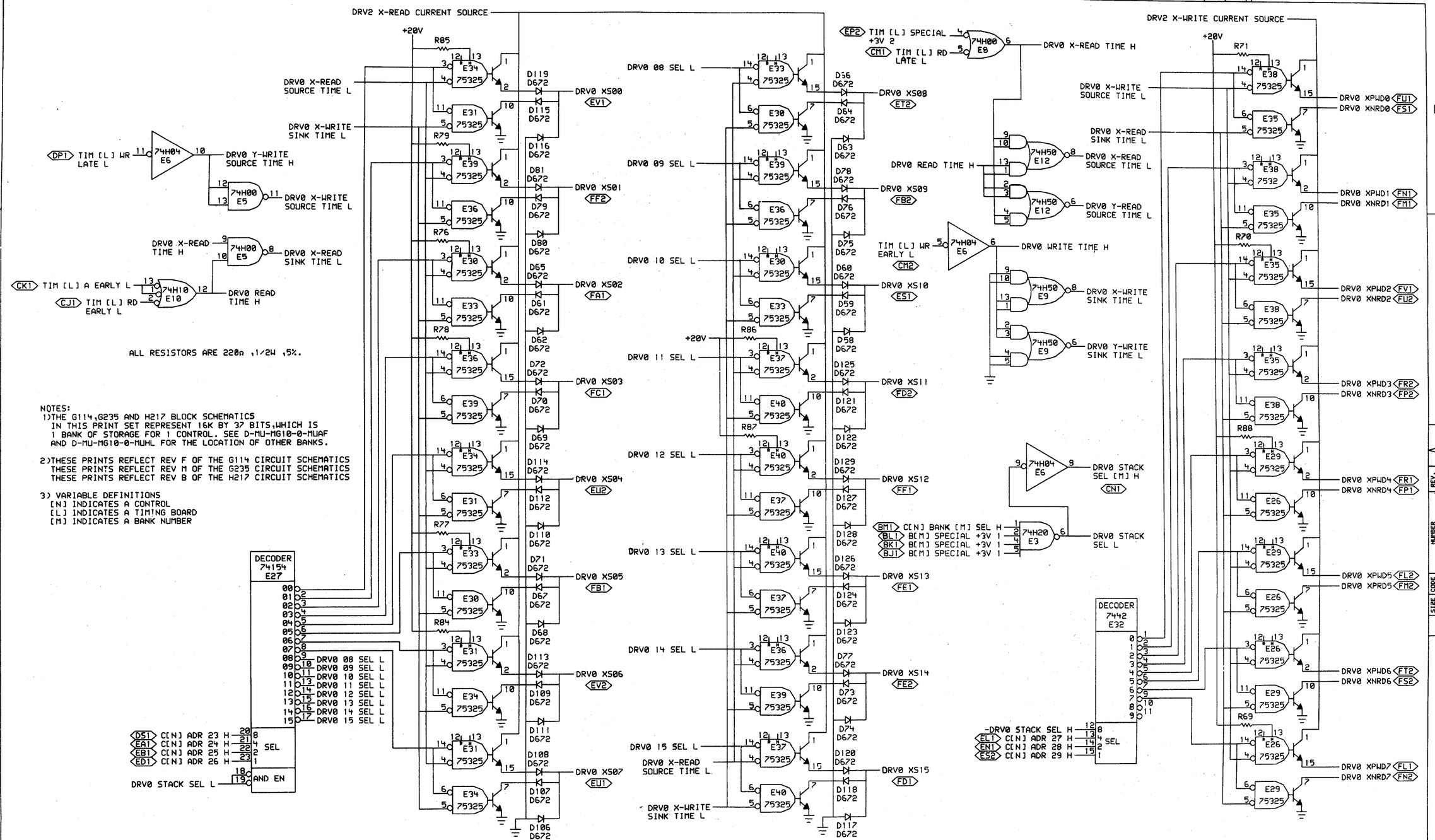
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
REF		X-Y- COORDINATE HOLE LOCATION	K-CO-G235-0-4	2
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-G235-0-5	3
REF		ECO MODULE HISTORY	B-MH-G235-0-6	4
1		ETCHED CIRCUIT BD.	5010145	5
1	C71	CAP 47 PF 100V 5% D.M.	1000011	6
46	C1-C40, C48, C50, C52, C58, C68, C72	CAP .01UF 50V 20%	1001610	7
4	C59, C54, C55, C57	CAP .005 UF 100V 20% DISC	1001765	8
1	C51	CAP 18 PF 100V 5% D.M.	1002608	9
1	C43,	CAP 47 UF 20V 10% S. TANT	1004814	10
13	C41, C42, C46, C49, C60-C67, C70	CAP 6.8UF 35V 10% S. TANT	1005306	11
1	D1	DIODE ZENER 1N753A 6.2V ± 1%	1102421-1	12
109	D8, D12, D17, D27-D130, D132, D150	DIODE D872	1105275	13
1	D16	DIODE ZENER 1N5248B 18V ± 10%	1110766	14
1	D5	DIODE ZENER 1N749A 4.3V ± 5%	1109977	15
1	D131,	DIODE ZENER 1N754A 6.8V ± 5%	1109991	16
1	D151	DIODE ZENER 1N750A 4.7V ± 5%	1100124	17
1		HANDLE ASSY	1210711-2	18
2	R18, R24	RES 100 1/4W 5%	1300229	19
12	R69-R71, R76-R79, R84-R88	RES 220 1/2W 5%	1300274	20
1	R101	RES 220 2W 10%	1300278	21
12	R85-R88, R72-R75, R80-R83	RES 270 1/2W 5%	1300285	22
2	R21, R27	RES 470 1/4W 5%	1300316	23
2	R3, R16,	RES 1K 1/4W 5%	1300385	24
1	R23	RES 1K 1/2W 5%	1300264	25
1	R2	RES 4.7K 1/4W 5%	1300447	26
1	R17	RES 10 1/4W 5%	1301317	27
1	R89	RES 82Ω 1/4W 5%	1301477	28
4	R61-R64	RES 10Ω 2W 10%	1300172	29
1	R22	RES 22K 1/4W 5%	1301808	30
1	R12	RES 270 1/4W 5%	1301972	31
4	R54, R56, R58, R60	RES 18 1/4W 5%	1302124	32
4	R53, R55, R57, R59	RES 75 1/4W 5%	1302379	33
4	R25, R26, R52, R20	RES 2K 1/4W 5%	1302388	34
2	R1, R6	RES 470K 1/4W 5%	1302398	35
1	R29	RES 120K 1/4W 5%	1300539	36
2	R32, R8	RES 10K 1/8W 1%	1302886	37
2	R28, R30	RES 14.7K 1/8W 1%	1302941	38
1	R9	RES 287 1/8W 1%	1305124	39
1	R10	RES 196 1/8W 1%	1302956	40
1	R35	RES 3.16K 1/8W 1%	1303045	41
1	R34	RES 34.8K 1/8W 1%	1303156	42
1	R14,	RES 243K 1/8W 1%	1304843	43
1	R11	RES 2.61K 1/8W 1%	1303303	44
2	R15, R33,	RES 68.1K 1/8W 1%	1305252	45
1	R13	RES 121K 1/8W 1%	1305255	46
2	R4, R5	RES .25 3W 1%	1310219	47
1	R19	RES .08 5W 3%	1310983	48
1	R90	RES 56Ω 1/4W 5%	1302902	49
1	Q14	TRANS DEC 2904A	1501913	50
1	Q13	TRANS DEC 6534B	1503409-1	51
1	Q12	TRANS DEC 4920	1509605	52
6	Q1-Q4, Q9, Q10	TRANS DEC 3725	1510959	53
1	T1	PULSE TRANSFORMER (DIP)	1609651	54
2	T2, T3	SATURATING THANSFORMER-XY	1610962	55
2	L1, L2	CHOKE 400 UH	1610963	56
2	E27, E28	IC DEC 74154	1909701	57
2	E19, E32	IC DEC 7442	1910046	58
1	E4	IC DEC 74121	1910230	59
2	E1, E2	IC DEC 741	1910298	60
2	E5, E8	ICDEC 74H00	1909056	61

REVISIONS		
CHK	CHANGE NO	REV

TITLE: 16K X-Y DRIVE
SIZE: D | CODE: CS | NUMBER: G2350-1 | REV:
SCALE: -/-/- | SHEET 3 OF 6 | DIST.

SIZE CODE DCS G235-0-1 NUMBER P

1-0-9836 DCS 1005 1215 2



REVISIONS		
CHK	CHANGE NO.	REV

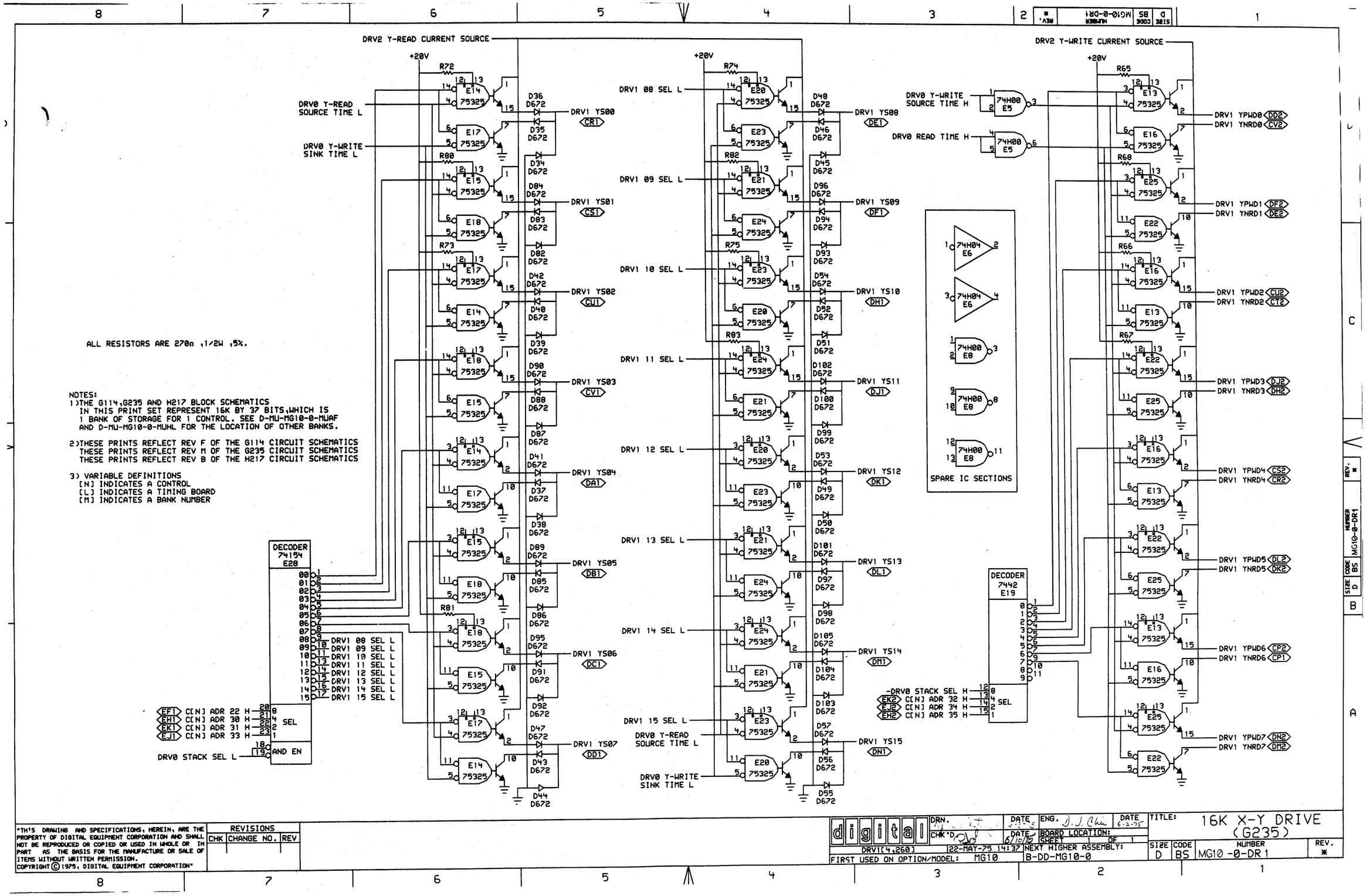
digital

DRV0[4,260] 29-MAY-75 13:44
FIRST USED ON OPTION/MODEL: MG10

DRN R. D. T. DATE 6-5-75
CHK D. J. DATE 6-12-75
ENG. D. J. Chen DATE 6-2-75
BOARD LOCATION:
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-MG10-0

TITLE: 16K X-Y DRIVE (G235)

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-DR0	*



ALL RESISTORS ARE 270Ω ,1/2W ,5%.

NOTES:
1>THE G114,G235 AND H217 BLOCK SCHEMATICS
IN THIS PRINT SET REPRESENT 16K BY 37 BITS,WHICH IS
1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MU-MG10-0-MUAF
AND D-MU-MG10-0-MUHL FOR THE LOCATION OF OTHER BANKS.

2>THESE PRINTS REFLECT REV F OF THE G114 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV M OF THE G235 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV B OF THE H217 CIRCUIT SCHEMATICS

3) VARIABLE DEFINITIONS
[N] INDICATES A CONTROL
[L] INDICATES A TIMING BOARD
[M] INDICATES A BANK NUMBER

REVISIONS		
CHK	CHANGE NO.	REV

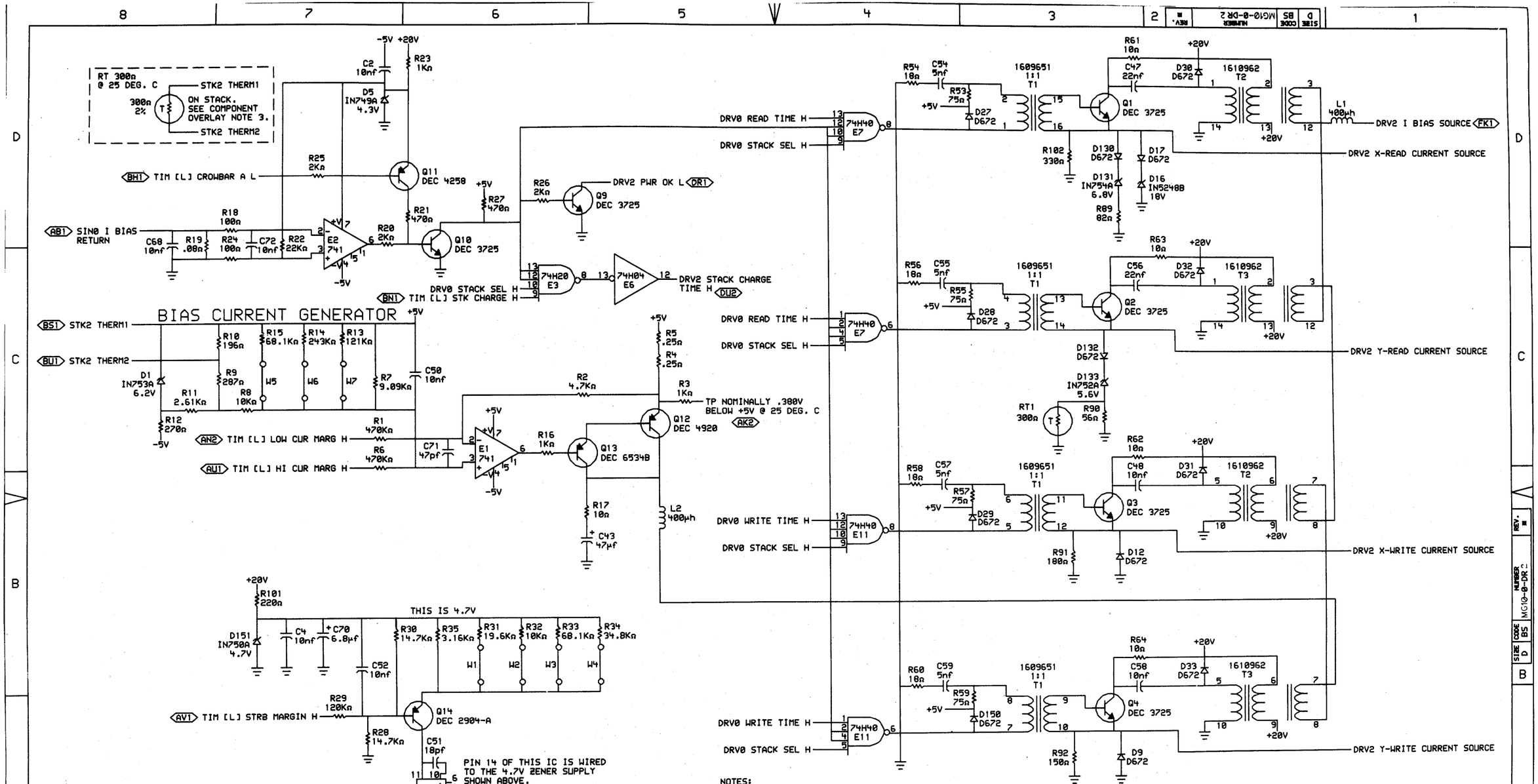
digital

DRV1[4,250] 22-MAY-75 14:37

DRN.	DATE 5-22-75	ENG. D.J. Chin	DATE 6-3-75
CHK'D	DATE 6/12/75	BOARD LOCATION:	
		SHEET 1 OF 1	
FIRST USED ON OPTION/MODEL: MG10		NEXT HIGHER ASSEMBLY: B-DD-MG10-0	

TITLE: 16K X-Y DRIVE (G235)

SIZE	CODE	NUMBER	REV.
D	BS	MG10 -0-DR 1	*



REVISIONS

CHK	CHANGE NO.	REV

DRN.	DATE 6-3-75	ENG. D. J. Chin	DATE 6-3-75
CHK'D	DATE 6/10/75	BOARD LOCATION:	SHEET 1 OF 1
DRV2[4,260]	29-MAY-75 11:10	NEXT HIGHER ASSEMBLY:	B-DD-MG10-0
FIRST USED ON OPTION/MODEL:	MG10		

TITLE: 16K X-Y DRIVE (G235)

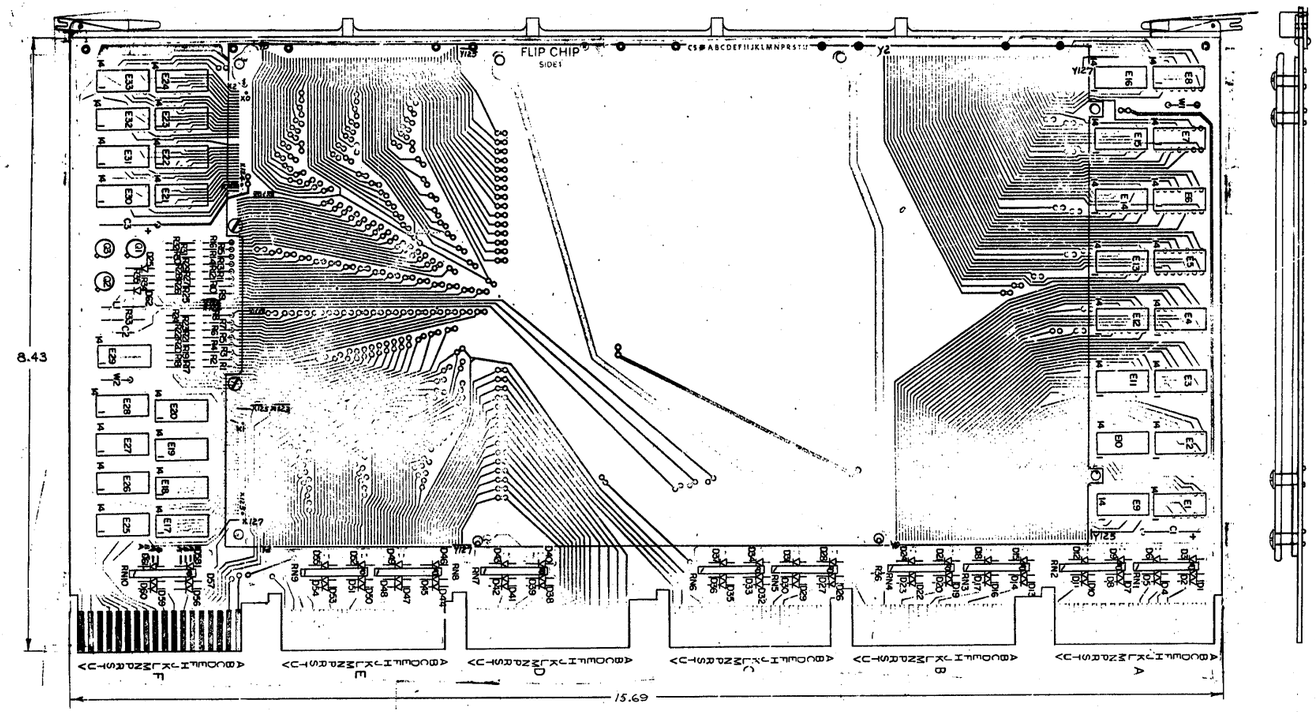
SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-DR2	*

NOTES:

7. [illegible] THRU X127 ○—— & ——○ Y8 THRU Y127 ○—— INDICATES MAGNET WIRE TERMINATION (SOLDERED TO PRINTED CIRCUIT PAD).
2. FOR ASSEMBLY INFORMATION & PART NO'S. OF ITEMS NOT CALLED OUT ON THIS DRAWING REFER TO E-AD-9305680-0-0 (MEMORY STACK ASSY).

LEGEND

NUMBER	DEC PURCHASE SPEC.	DEC PART NO.	STACK CONFIGUREATION
9305680-1		H217-A	16K X 20
9305680-2		H217-B	16K X 19
9305680-3		H217-C	16K X 18
9305680-4		H217-D	16K X 16



QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
		MEMORY STACK ASSY	9305680	24
3		TRANSIPADS	9007200	23
2	W1, W2	WIRE, BUS #22 AWG	9107560-1	22
				21
				20
				19
1	R36	RES 300 2% THERMAL DISC	1303785	18
1	L1	CHOKE 100 uh 10%	16 10662	17
3	Q1, Q2, Q3	TRANSISTOR DEC 3734	15 10062	16
32	R1 THRU R32	RES. 220, 1/4W, 5%	13 00271	15
2	R34, R35	RES. 68, 1/4W 5%	13 00219	14
1	R33	RES. 39, 1/2W 5%	13 02336	13
10	RN1 THRU RN10	RES NETWORK 2-5K, 1-1K	13 10964	12
1	E29	IC DEC. 741140	19 05586	11
32	E1 THRU E28, E30 THRU E33	IC DEC. 2501 (16 DIODE)	19 10010	10
62	D1 THRU D62	DIODE D672	11 05275	9
2	C1, C3	CAP. 6.8 uF. 35V 10% S.TANT	10 05306	8
1	C2	CAP. .01 uF 50V 20%	10 01610-00	7
				6
				5
				4
				3
REF		X-Y COORDINATE HOLE LOCATION	K-CO-H217-0-4	2
1		ETCH CKT. BOARD (G647)	5010023	1

PARTS LIST

DEC 2501	N/A	N/A
IC TYPE	GND	+ 5V

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE

IC PIN LOCATIONS

DEC NO.	EIA NO.	DEC NO.	EIA NO.
		DEC 3734	NONE
		D672	IN3653

SEMICONDUCTOR CONVERSION CHART

FIRST USED ON OPTION MODEL: MF11-U/UP

ETCH BOARD REV: E

NEXT HIGHER ASSY

REV	DESCRIPTION	DATE	CHK
A	D. SMELSER H217-0000 4 C	8/21	
B	D. SMELSER H217-00003	5/2/73	
C	ECO 3 Shop	5/2/73	

	NAME	DATE
DRN		7-1-72
CHKD		8/10/72
ENG		11/8/73
PROJ. ENG.		11/8/73
MFGR		11/8/73

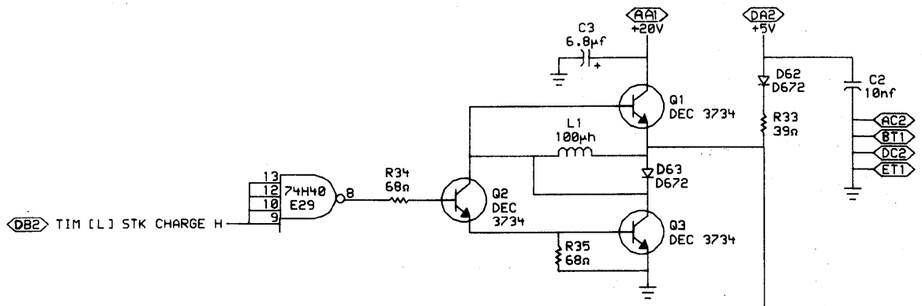
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: STACK BOARD

SIZE/CODE: D/CS | NUMBER: H217-0-1 | REV: E

SCALE | SHEET 1 OF 3 | DIST.

DEC FORM NO. DRD-128A

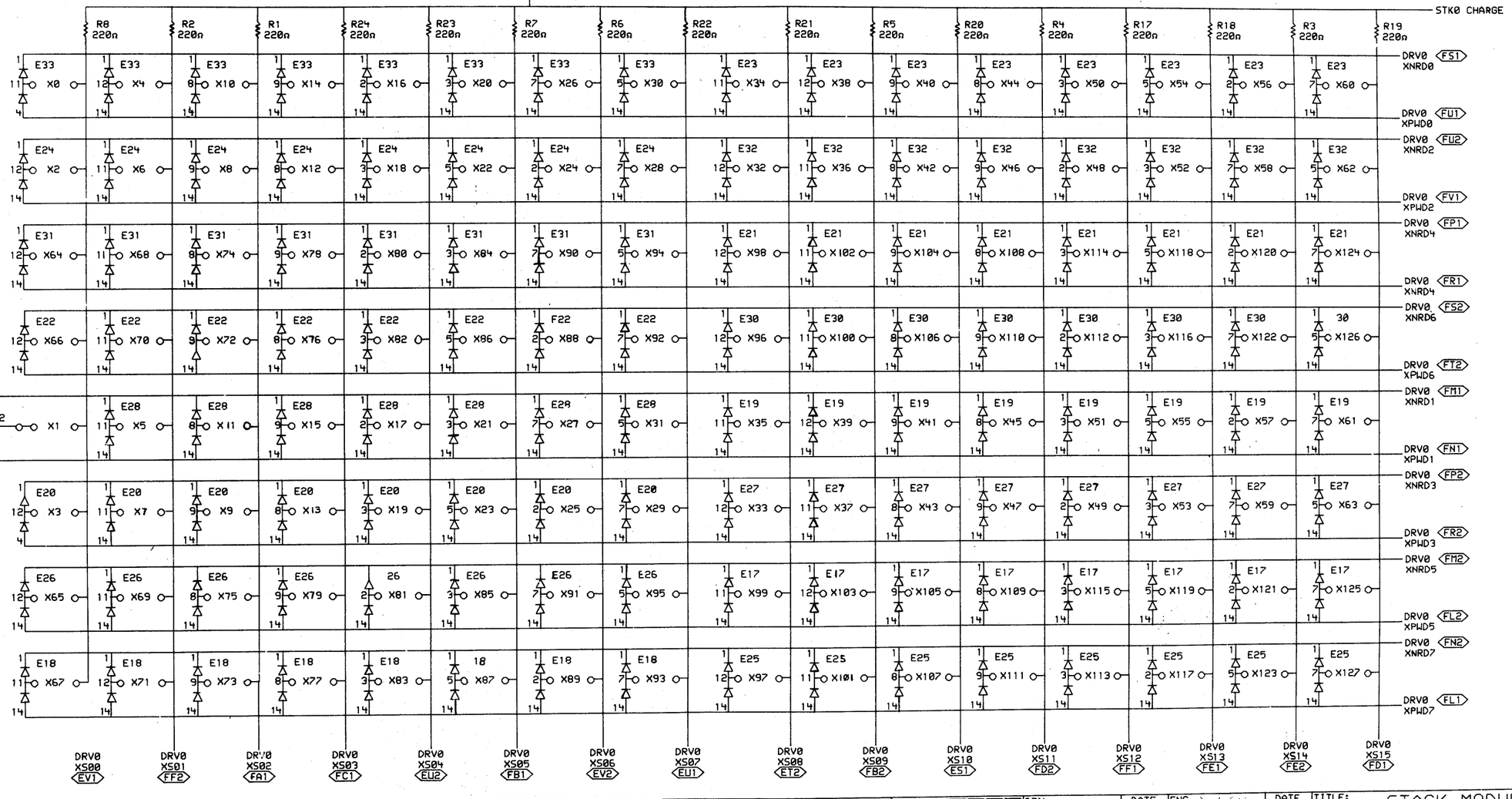


NOTES:
1)THE G114,G235 AND H217 BLOCK SCHEMATICS
IN THIS PRINT SET REPRESENT 16K BY 37 BITS,WHICH IS
1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MU-MG10-0-MUAF
AND D-MU-MG10-0-MUHL FOR THE LOCATION OF OTHER BANKS.

2)THESE PRINTS REFLECT REV F OF THE G114 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV M OF THE G235 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV B OF THE H217 CIRCUIT SCHEMATICS

3) VARIABLE DEFINITIONS
[N] INDICATES A CONTROL
[L] INDICATES A TIMING BOARD
[M] INDICATES A BANK NUMBER

X AXIS



NOTE: JUMPER W2
IS A CURRENT LOOP
FOR TEST USE ONLY.

REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. L. Hampton DATE 6/3/75 ENG. D. J. Chin DATE 6-3-75
CHK'D DATE 6/6/75 BOARD LOCATION:
STK0L4,260] 29-MAY-75 13:16 SHEET 1 OF 1
FIRST USED ON OPTION/MODEL: MG10 NEXT HIGHER ASSEMBLY: B-DD-MG10-0

TITLE: STACK MODULE (H217B)

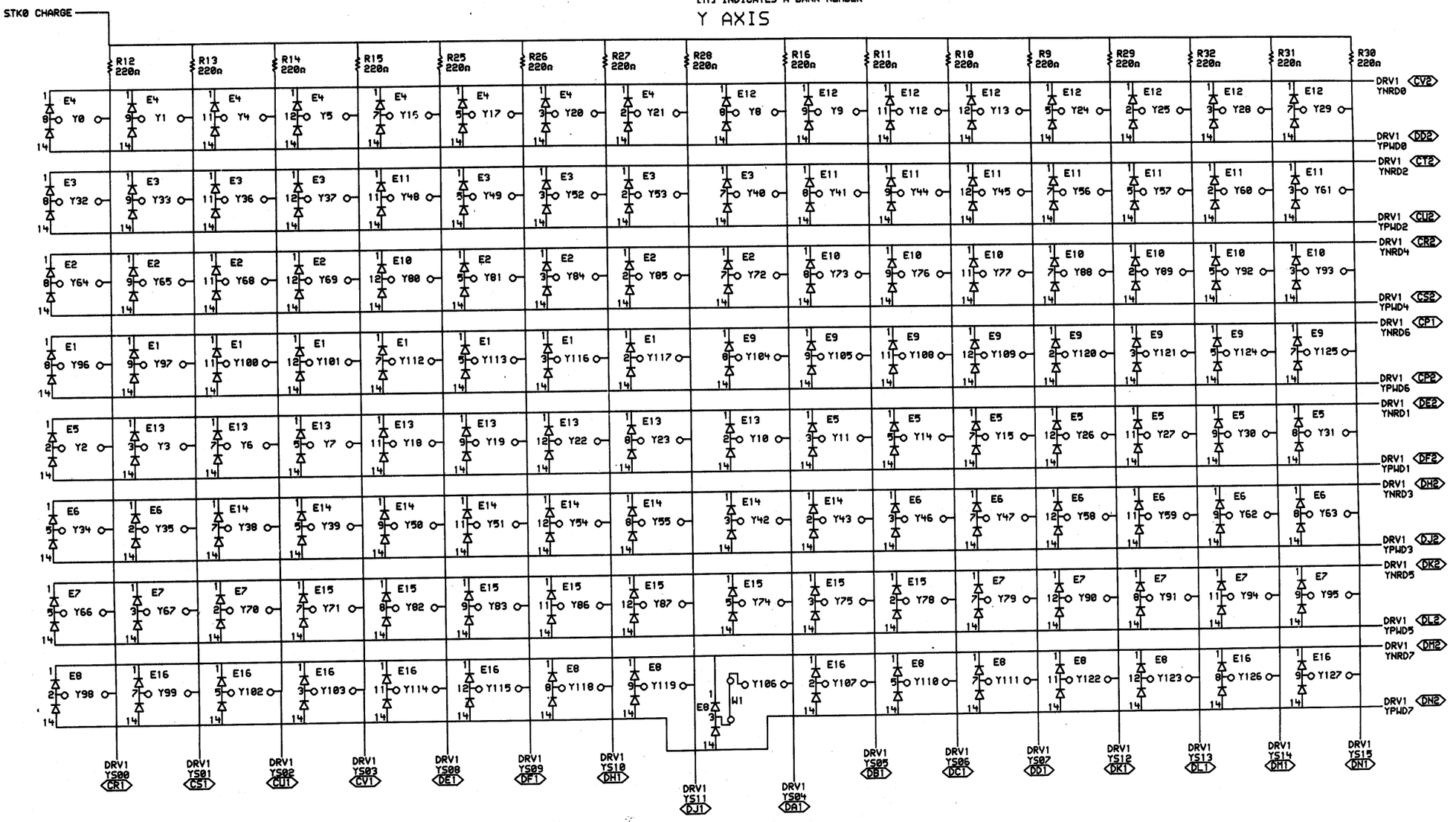
SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-ST0	*

NOTES!
1)THE G114,G235 AND H217 BLOCK SCHEMATICS
IN THIS PRINT SET REPRESENT 16K BY 37 BITS,WHICH IS
1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MU-MG10-0-MUAF
AND D-MU-MG10-0-MUHL FOR THE LOCATION OF OTHER BANKS.

2)THESE PRINTS REFLECT REV F OF THE G114 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV M OF THE G235 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV B OF THE H217 CIRCUIT SCHEMATICS

3) VARIABLE DEFINITIONS
[N] INDICATES A CONTROL
[L] INDICATES A TIMING BOARD
[M] INDICATES A BANK NUMBER

Y AXIS



NOTE: JUMPER W1 IS A CURRENT LOOP FOR TEST USE ONLY.

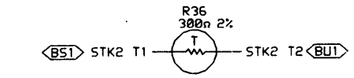
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. W. Hamlin DATE 6/3/75
CHK'D DATE 6/10/75
ENG. D. J. Chu DATE 6-3-75
BOARD LOCATION:
SHEET OF
STK[4,260] 29-MAY-75 13:21
NEXT HIGHER ASSEMBLY: B-DD- IG10-0
FIRST USED ON OPTION/MODEL: MG10

TITLE: STACK MODULE (H217B)

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-ST1	*

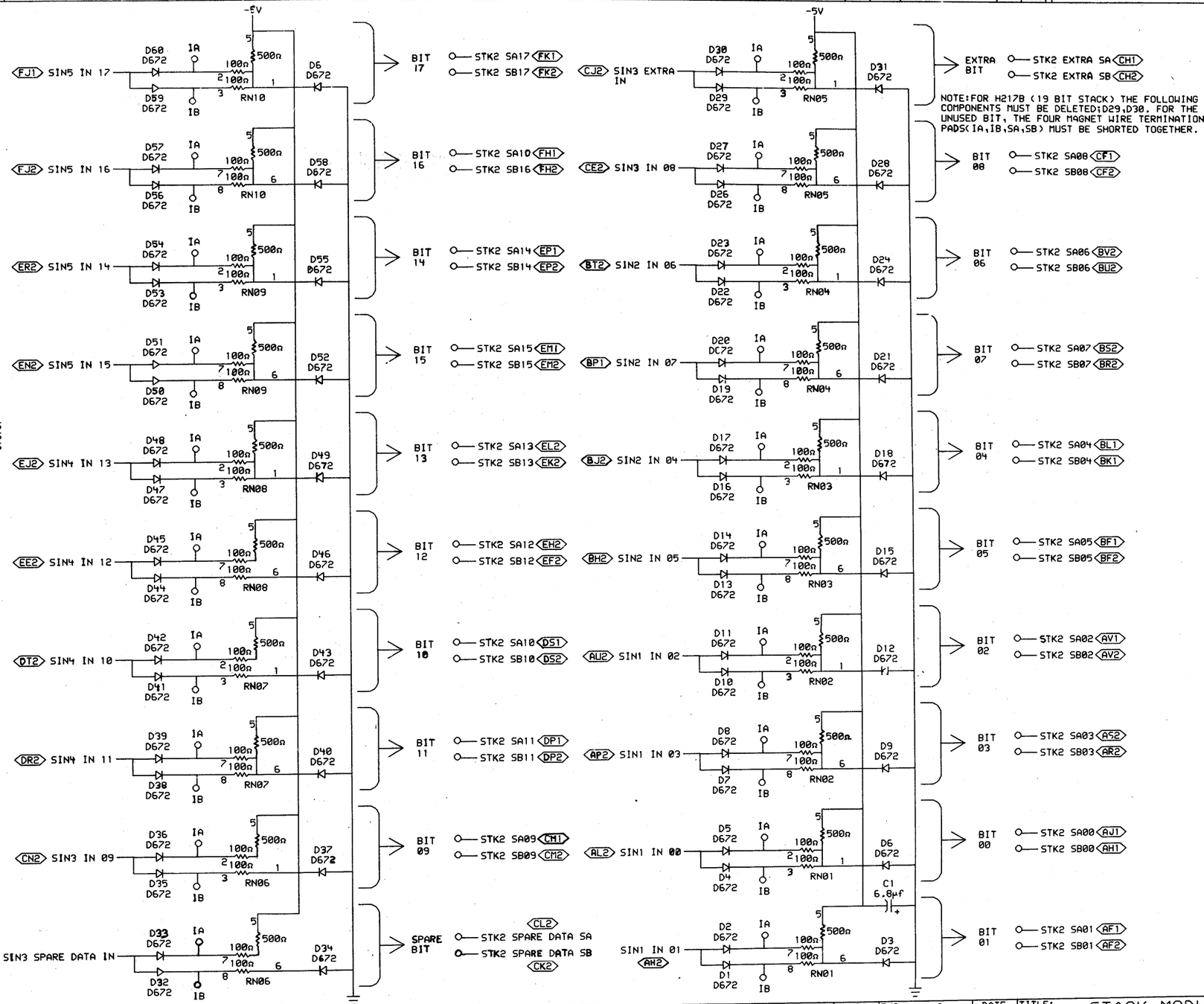


NOTE: THERMISTOR FOR TEMPERATURE COMPENSATION.

NOTES:
1) THE G114, G235 AND H217 BLOCK SCHEMATICS IN THIS PRINT SET REPRESENT 16K BY 37 BITS, WHICH IS 1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MU-MG10-0-MUAF AND D-MU-MG10-0-MUHL FOR THE LOCATION OF OTHER BANKS.

2) THESE PRINTS REFLECT REV F OF THE G114 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV M OF THE G235 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV B OF THE H217 CIRCUIT SCHEMATICS

3) VARIABLE DEFINITIONS
[N] INDICATES A CONTROL
[L] INDICATES A TIMING BOARD
[M] INDICATES A BANK NUMBER



REVISIONS		
CHK	CHANGE NO.	REV

digital

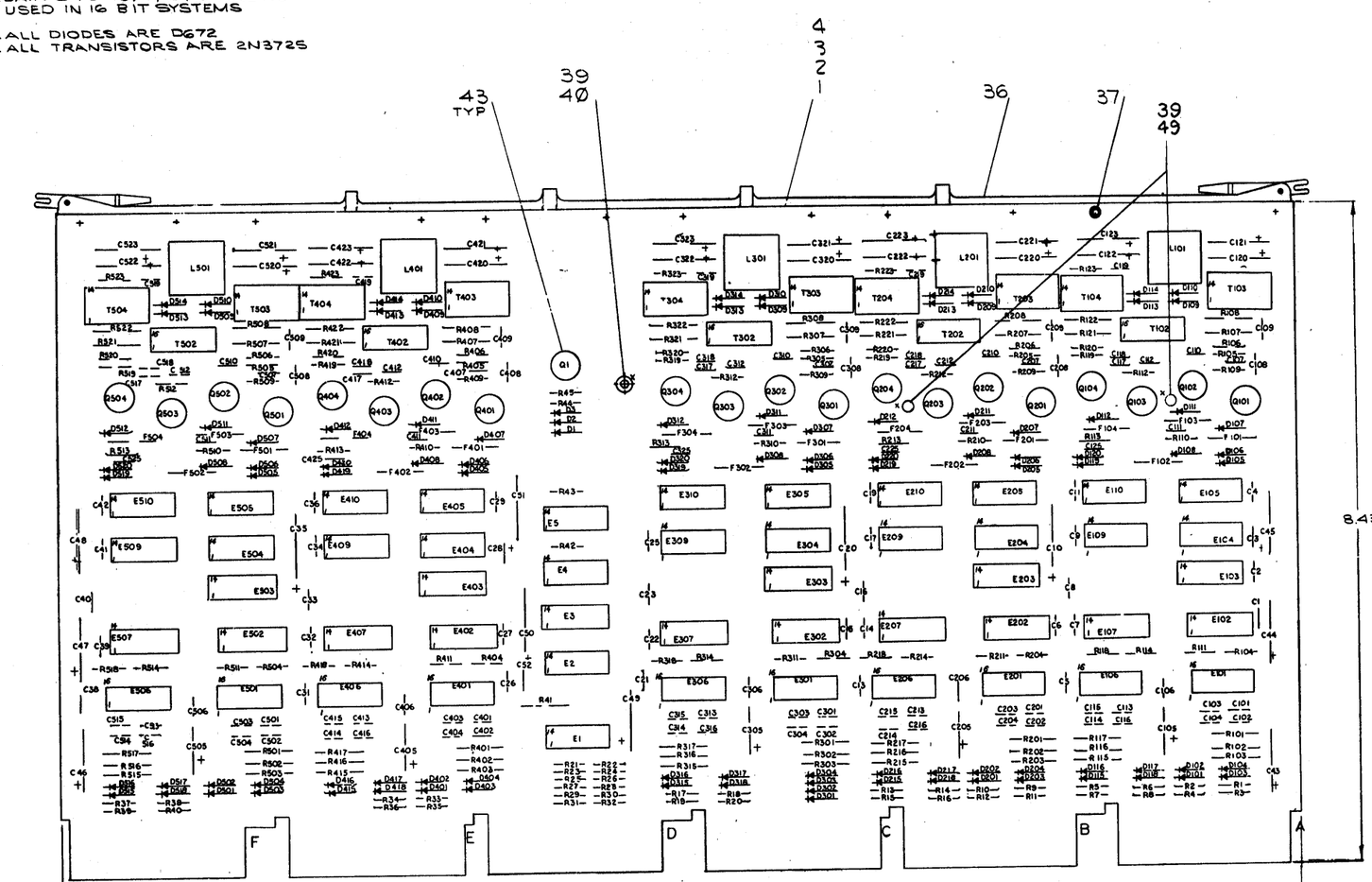
DRN. W. Hinman DATE 6/3/75 ENG. D. J. Chin DATE 6-3-75
CHK'D. DATE 6/10/75 BOARD LOCATION:
SHEET 1 OF 1
STK2[4,260] 29-MAY-75 14:12 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MG10 B-DD-MG10-0

TITLE: STACK MODULE (H217B)

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-ST2	*

NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL RESISTORS ARE IN OHMS 1/4W
2. ALL CAPACITANCE IS IN MICROFARADS
3. DATA BITS 17 & 18 ARE NOT USED IN 18 BIT SYSTEMS
4. DATA BIT 18 IS NOT USED IN 19 BIT SYSTEMS
5. DATA BITS 16,17,18 & 19 ARE NOT USED IN 16 BIT SYSTEMS
6. ALL DIODES ARE DG72
7. ALL TRANSISTORS ARE 2N3725



IC DEC 7380	1	8	–
IC DEC 8640	1	8	–
IC DEC 7528	9	16	8
IC TYPE	GND	+5V	-5V

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE

IC PIN LOCATIONS

DRAWING 40-522 16599

DEC FORM NO DRD 135A

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

FIRST USED ON OPTION MODEL: MF 11-U & MF 11-UP

ETCH BOARD REV: C

REV	CHANGE NO.	CHK	DEC NO.	EIA NO.

REVISIONS

SEMICONDUCTOR CONVERSION CHART

DRN		DATE 4-3-73
CHK'D		DATE 4/16/73
ENG		DATE 4/16/73
PROJ ENG		DATE 4/16/73
PROD		DATE 4/13/73

NEXT HIGHER ASSY

SCALE

SHEET 2 OF 9

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: 16K SENSE/INHIBIT

SIZE D | CODE CS | NUMBER G114-0-1 | REV. F

DIST.

SIZE D | CODE CS | NUMBER G114-0-1 | REV. F

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1			ETCHED CIRCUIT BOARD	5010478	1
REF			X-Y COORDINATE HOLE LOCATION	K-CO-G114-0-4	2
REF			ASSY/DRILLING HOLE LAYOUT	D-AH-G114-0-5	3
REF			MODULE ECO HISTORY	B-MH-G114-0-6	4
55	C1 THRU C9, C11, C13 THRU C17 C19, C21, C22, C23, C25 THRU C29, C31, C32, C33, C34, C36 C38 THRU C42, C52, C104, C106 C108, C114, C204, C206, C208, C214, C304, C306, C308, C314 C404, C406, C408, C414, C504 C506, C508, C514	CAP. 01UF 50V. 20% CER	1001610	5
29	C10 C20, C35, C120 THRU C123, C220 THRU C223, C320 THRU C323 C420 THRU C423, C520 THRU C523, C44, C45, C47 C48, C50, C51	CAP 6.8UF 35V. 10% TANT	1005306	6
30	C101, C103, C113, C115, C201, C203 C213, C215, C301, C303, C313 C315, C401, C403, C413 C415, C501, C503, C513, C515 C102, C116, C202, C216, C302 C316, C402, C416, C502, C516	CAP 82 PF 100V. 5% D.M.	1000015	7
5	C105, C205, C305, C405, C505	CAP 3.9 UF 10V, ±10% TANT	1000064	8
3	C43, C46 & C49	CAP 39 UF 10V ±10% TANT	1000076	9
20	C107, C111, C112, C125, C207, C211, C212, C225, C307, C311, C312, C325, C407, C411, C412 C425, C507, C511, C512, C525	CAP 560 PF, 100V. 5% D.M.	1000025	10
20	C109, C110, C117, C118, C209 C210, C217, C218, C309, C310 C317, C318, C409, C410, C417 C418, C509, C510, C517, C518	CAP .005UF/100V. 20%, DISC	1001765	11
5	C119, C219, C319, C419, C519	CAP .22 UF 50V +80% -20% CER	1010274-0	12
103	D1, D2, D3, D101 THRU D120 D201 THRU D220, D301 THRU D320, D401 THRU D420 D501 THRU D520	DIODE D672	1105295	13
20	R1, R3, R5, R7, R9, R11, R13, R15 R17, R19, R21, R23, R25, R27 R29, R31, R33 R35, R37, R39	RES. 180, 1/4W. 5%	1301322	14
1	R41	RES. 196, 1/8W, 1% MF	1302956	15
20	R2, R4, R6, R8, R10, R12, R14, R16 R18, R20, R22, R24, R26, R28, R30 R32, R34, R36, R38, R40	RES. 390, 1/4W, 5%	1300309	16
2	R42, R43	RES. 330, 1/4W, 5%	1300295	17
1	R44	RES. 4.7K, 1/4W, 5%	1300447	18
20	R101, R102, R116, R117, R201, R202 R216, R217, R301, R302, R316 R317, R401, R402, R416, R417 R501, R502, R516, R517	RES. 19.6, 1/8W, 1% MF	1303110	19
10	R103, R115, R203, R215, R303 R315, R403, R415, R503, R515	RES. 1K 1/8W 1% MF	1303114	20
20	R104, R111, R114, R118, R204 R211, R214, R218, R304, R311 R314, R318, R404, R411, R414 R418, R504, R511, R514, R518	RES. 1K, 1/4W, 5%	1300365	21
20	R109, R110, R112, R113, R209, R210, R212, R213, R309, R310 R312, R313, R409, R410, R412, R413, R503, R510, R512, R513	RES 100 1/4W 5%	1300229	22
20	R105, R106, R113, R120, R205, R206, R213, R220, R305, R306 R313, R320, R405, R406, R419 R420, R505, R506, R519, R520	RES 5.1 1/4W 5%	1309422	23
1	R45	RES 470 1/4W 5%	1300316	24
5	R123, R223, R323, R423, R523	RES 150 1/4W 5%	1300250	25
20	R107, R108, R121, R122, R207, R208, R221, R222, R307, R308 R321, R322, R407, R408, R421 R422, R507, R508, R521, R522	RES 56 1/2W 5%	1309995	26
21	Q1, Q101 THRU Q104, Q201 THRU Q204, Q301 THRU Q304, Q401 THRU Q404 Q501 THRU Q504	TRANS 2N3725 (TO5)	1510959	27
10	T103, T104, T203, T204, T303 T304, T403, T404, T503, T504	TRANSFORMER SATURATING INHIBIT	1610961	28
5	T102, T202, T302, T402, T502	TRANSFORMER, PULSE (DIP)	1609996	29
A/R		24 AWG WIRE	9107470	45
21		TRANSIPAD	9007201	43
5	E102, E202, E302, E402 E502	IC DEC 8640	1911469	42
5	E103, E203, E303, E403 E503	I.C. DEC 74H04	1909931	41
20	F101 THRU F104, F201 THRU F204, F301 THRU F304 F401 THRU F404, F501 THRU F504	FUSE PICOFUSE 3/4A	1210929-3	38
12		EYELET GS-4-7	9006732	37
3		SCREW, NYLON 6/32 X 1/4 LG	9009041-1	40
3		STANDOFF 1/4 X 3/8 #6-32 THRU	9008213	39
10	E104, E109, E204, E209, E304 E309, E404, E409, E504, E509	IC DEC 74H74	1909667	34
5	L101, L201, L301, L401, L501	CHOKE 400 UH	1610963	35
1		HANDLE ASS'Y	12107/1-2	36
10	E107, E207, E307 E407 E507	IC DEC 8881	1909705	33
14	E2 THRU E5, E105, E110, E205, E210, E305, E310, E405, E410 E505, E510	IC DEC 74H40	1905586	31
10	E101, E106, E201, E206 E301, E306, E401, E406, E501, E506	IC DEC 7528 SENSE AMP	1910687	32
1	E1	IC DEC 74H00	1909056	30

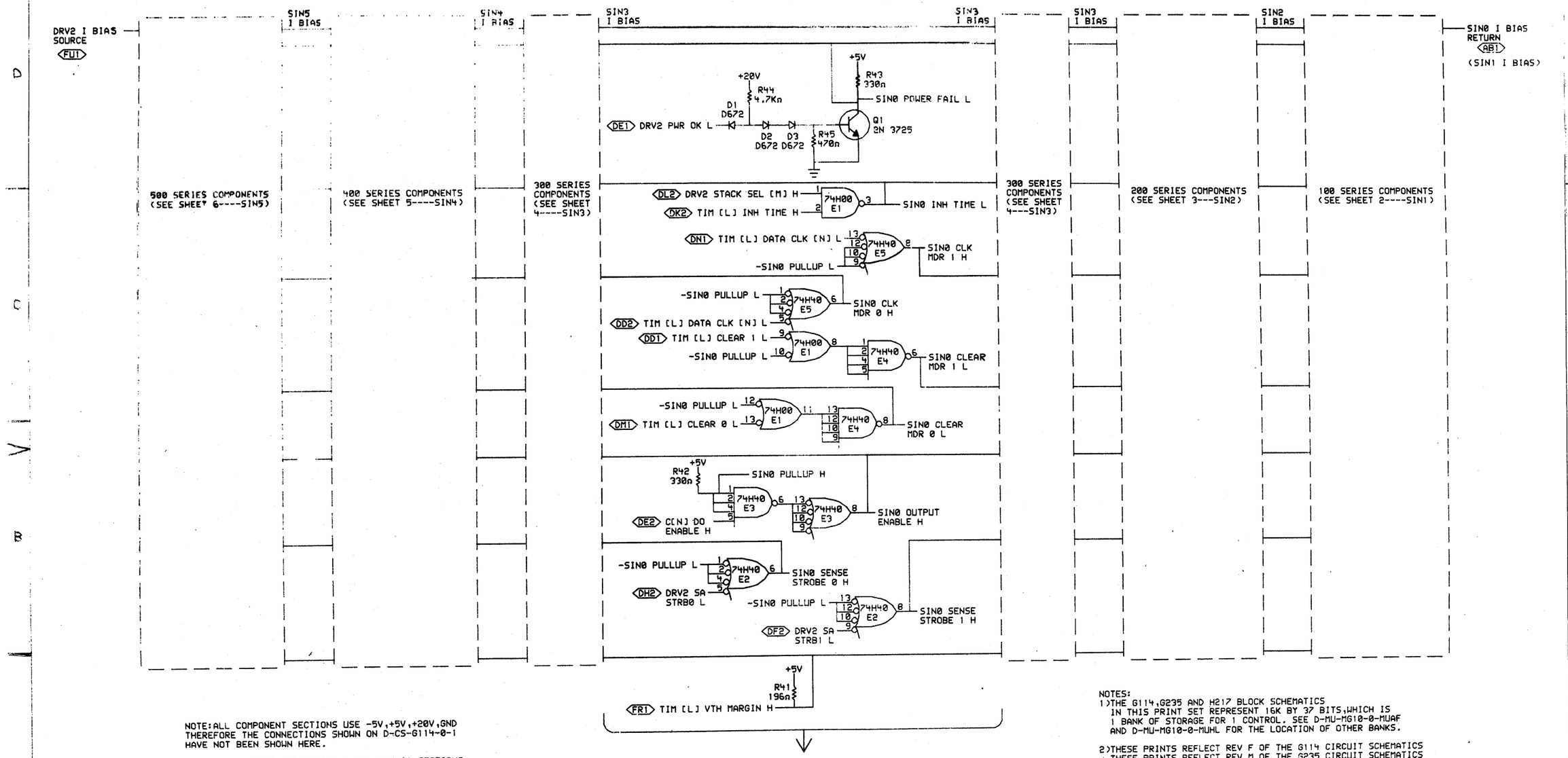
PARTS LIST

REVISIONS

CHK	CHANGE NO	REV.

TITLE	SIZE	CODE	NUMBER	REV.
16K SENSE/INHIBIT	D	CS	G114 Ø-1	F
SCALE	SHEET 3 OF 9	DIST.		

DCS G114-Ø-1



NOTE:ALL COMPONENT SECTIONS USE -5V,+5V,+20V,GND THEREFORE THE CONNECTIONS SHOWN ON D-CS-G114-0-1 HAVE NOT BEEN SHOWN HERE.

TERMINATORS,CAPACITORS AND SPARE IC SECTIONS SHOWN ON D-CS-G114-0-1 AND OTHER SHEETS OF THE MODULE SCHEMATIC HAVE BEEN PUT ON SHEET 7 OF 7 OF THIS PRINT SET.

THIS IS THE SIN0 PRINT. THE REST OF THIS DRAWING IS A BLOCK DIAGRAM OF THE OTHER SHEETS.

NOTES:
1)THE G114,G235 AND H217 BLOCK SCHEMATICS IN THIS PRINT SET REPRESENT 16K BY 37 BITS,WHICH IS 1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MU-MG10-0-MUAF AND D-MU-MG10-0-MUHL FOR THE LOCATION OF OTHER BANKS.

2)THESE PRINTS REFLECT REV F OF THE G114 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV M OF THE G235 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV B OF THE H217 CIRCUIT SCHEMATICS

3) VARIABLE DEFINITIONS
[N] INDICATES A CONTROL
[L] INDICATES A TIMING BOARD
[M] INDICATES A BANK NUMBER

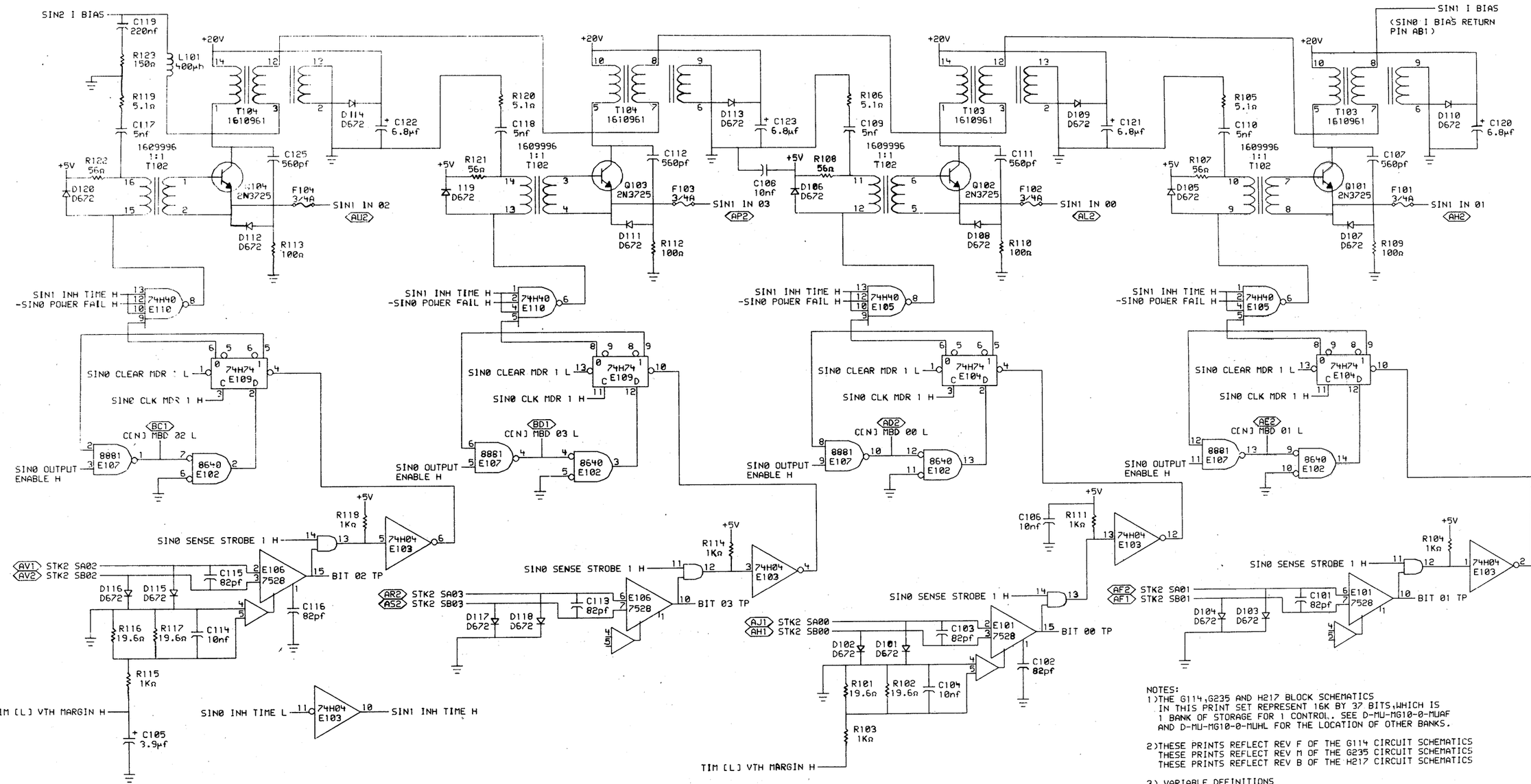
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. | DATE | ENG. J. J Chin | DATE 6-3-75
CHK D [illegible] | DATE 6/19/75 | BOARD LOCATION:
SIN0[4,260] | 29-MAY-75 13:54 | NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MG10 | B-DD-MG10-0 | SHEET 1 OF 1

TITLE: 16K SENSE/INHIBIT (G114)

SIZE D | CODE BS | NUMBER MG10-0-SI0 | REV. *



NOTES:
1)THE G114,G235 AND H217 BLOCK SCHEMATICS
IN THIS PRINT SET REPRESENT 16K BY 37 BITS,WHICH IS
1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MU-MG10-0-MUAF
AND D-MU-MG10-0-MUHL FOR THE LOCATION OF OTHER BANKS.

2)THESE PRINTS REFLECT REV F OF THE G114 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV M OF THE G235 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV B OF THE H217 CIRCUIT SCHEMATICS

3) VARIABLE DEFINITIONS
[N] INDICATES A CONTROL
[L] INDICATES A TIMING BOARD
[M] INDICATES A BANK NUMBER

REVISIONS		
CHK	CHANGE NO.	REV

digital

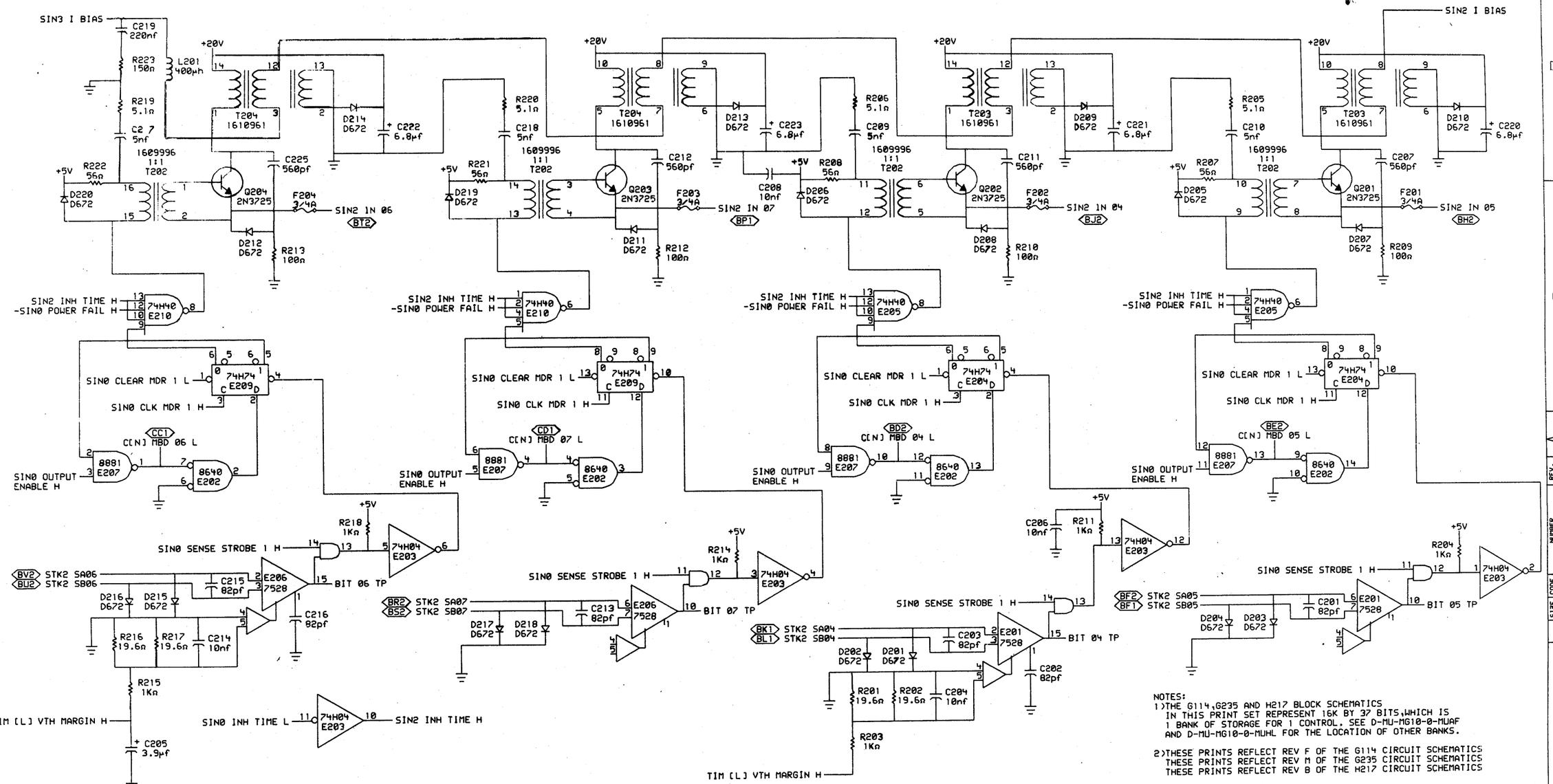
SIN1[4,260] 22-MAY-75 15:11 FIRST USED ON OPTION/MODEL: MG10

DRN. DATE
CHK 'D DATE 6/10/75

ENG. J. Chin DATE 6-2-75
BOARD LOCATION:
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-MG10-0

TITLE: 16K SENSE/INHIBIT (G114)

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-SI1	*



NOTES:
1) THE G114, G235 AND H217 BLOCK SCHEMATICS IN THIS PRINT SET REPRESENT 16K BY 37 BITS, WHICH IS 1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MU-MG10-0-MUAF AND D-MU-MG10-0-MUHL FOR THE LOCATION OF OTHER BANKS.

2) THESE PRINTS REFLECT REV F OF THE G114 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV M OF THE G235 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV B OF THE H217 CIRCUIT SCHEMATICS

3) VARIABLE DEFINITIONS
[N] INDICATES A CONTROL
[L] INDICATES A TIMING BOARD
[M] INDICATES A BANK NUMBER

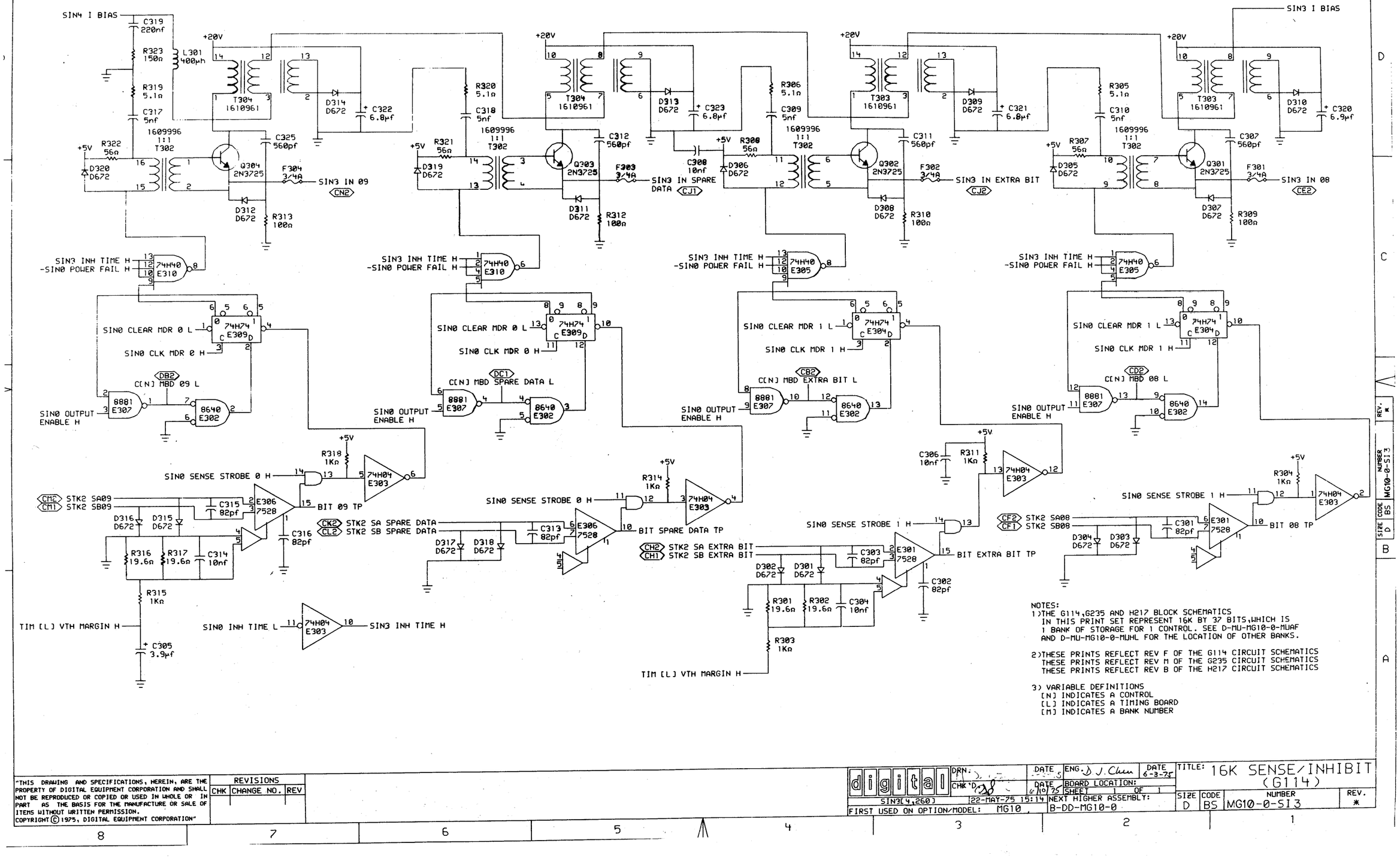
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN [illegible] DATE 6-2-75 ENG. D. J. Chin DATE 6-2-75
CHK D. [illegible] DATE 10/75 BOARD LOCATION:
SIN[24,260] 22-MAY-75 15:13 SHEET 1 OF 1
FIRST USED ON OPTION/MODEL: MG10, NEXT HIGHER ASSEMBLY: B-DD-MG10-0

TITLE: 16K SENSE/INHIBIT (G114)

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-SI2	*



NOTES:
1)THE G114,G235 AND H217 BLOCK SCHEMATICS
IN THIS PRINT SET REPRESENT 16K BY 32 BITS,WHICH IS
1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MU-MG10-0-MUAF
AND D-MU-MG10-0-MUHL FOR THE LOCATION OF OTHER BANKS.

2)THESE PRINTS REFLECT REV F OF THE G114 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV M OF THE G235 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV B OF THE H217 CIRCUIT SCHEMATICS

3) VARIABLE DEFINITIONS
[N] INDICATES A CONTROL
[L] INDICATES A TIMING BOARD
[M] INDICATES A BANK NUMBER

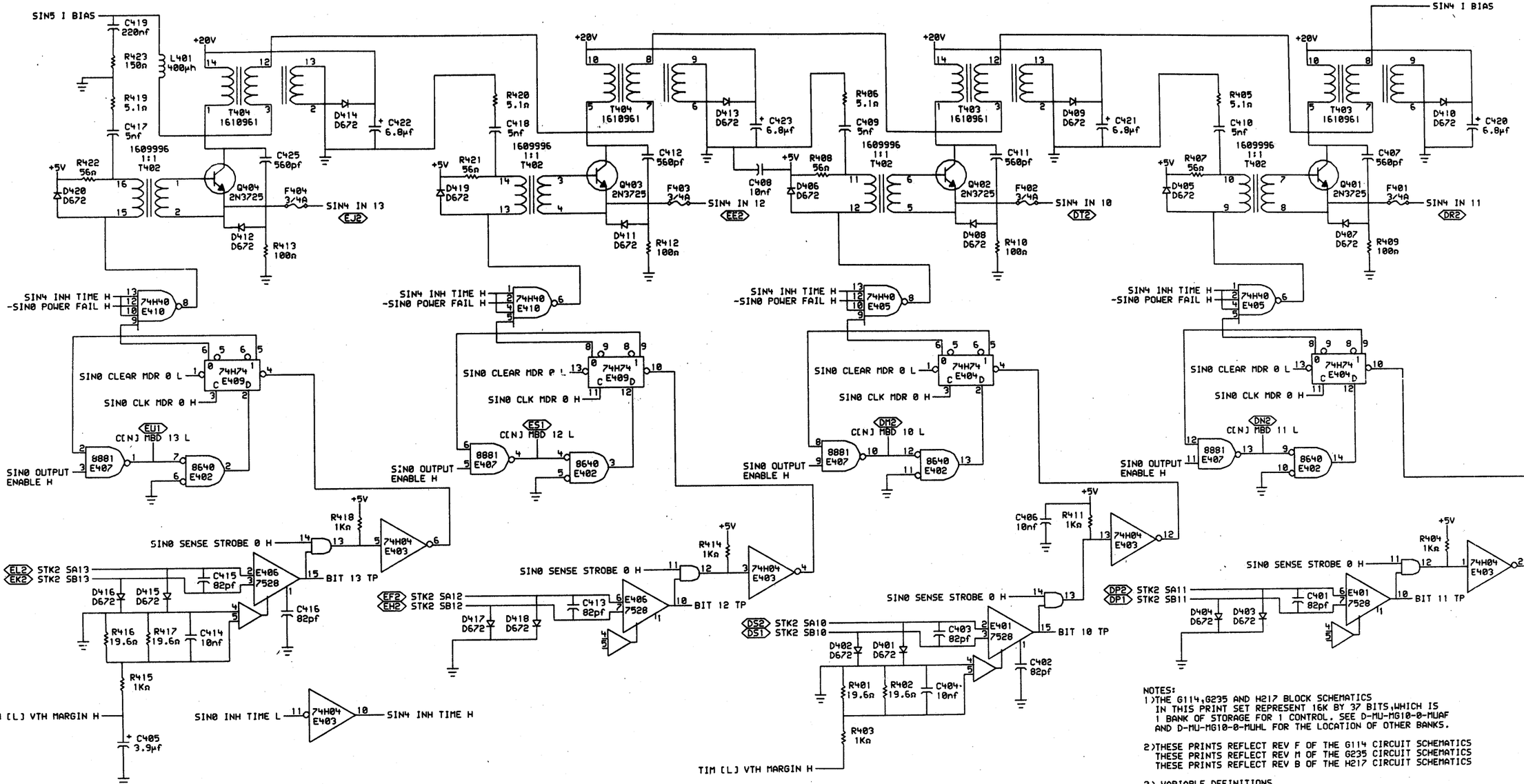
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN: | DATE | ENG. D. J. Chen | DATE 6-3-75
CHK D. [illegible] | DATE 6/10/75 | BOARD LOCATION:
SIN3[4,260] | 22-MAY-75 15:14 | SHEET 1 OF 1 | NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MG10 | B-DD-MG10-0

TITLE: 16K SENSE/INHIBIT (G114)

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-SI3	*



NOTES:
1) THE G114, G235 AND H217 BLOCK SCHEMATICS IN THIS PRINT SET REPRESENT 16K BY 37 BITS, WHICH IS 1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MU-MG10-0-MUAF AND D-MU-MG10-0-MUHL FOR THE LOCATION OF OTHER BANKS.

2) THESE PRINTS REFLECT REV F OF THE G114 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV M OF THE G235 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV B OF THE H217 CIRCUIT SCHEMATICS

3) VARIABLE DEFINITIONS
[N] INDICATES A CONTROL
[L] INDICATES A TIMING BOARD
[M] INDICATES A BANK NUMBER

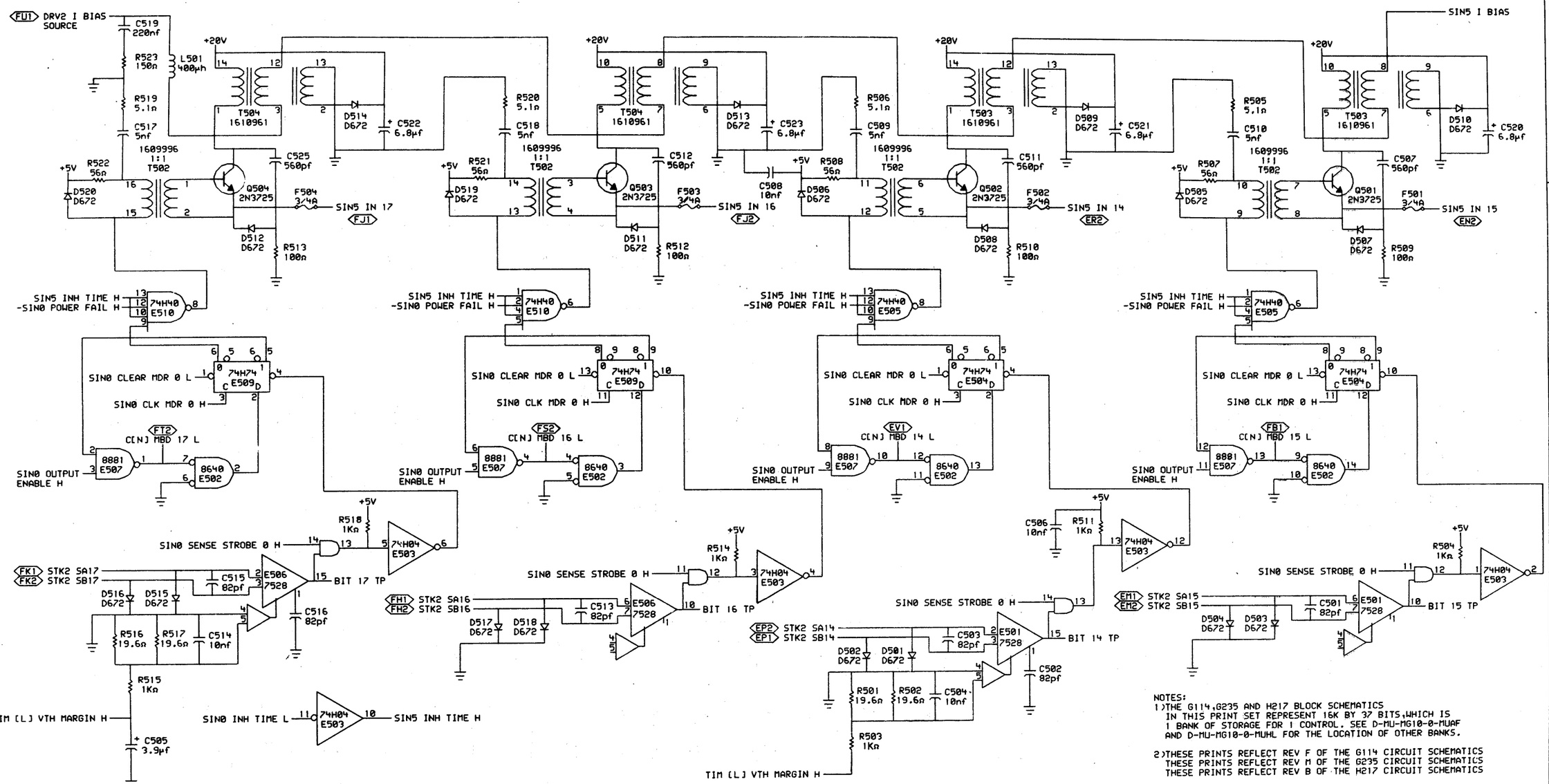
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. | DATE | ENG. D. J. Chen | DATE 6-3-75
CHK D | DATE 6/10/75 | BOARD LOCATION: | SHEET 1 OF 1
SIN[4,260] | 22-MAY-75 15:17 | NEXT HIGHER ASSEMBLY: B-DD-MG10-0
FIRST USED ON OPTION/MODEL: MG10

TITLE: 16K SENSE/INHIBIT (G114)

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-SI4	*



NOTES:
1) THE G114,G235 AND H217 BLOCK SCHEMATICS IN THIS PRINT SET REPRESENT 16K BY 37 BITS,WHICH IS 1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MU-MG10-0-MUAF AND D-MU-MG10-0-MUHL FOR THE LOCATION OF OTHER BANKS.

2) THESE PRINTS REFLECT REV F OF THE G114 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV M OF THE G235 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV B OF THE H217 CIRCUIT SCHEMATICS

3) VARIABLE DEFINITIONS
[N] INDICATES A CONTROL
[L] INDICATES A TIMING BOARD
[M] INDICATES A BANK NUMBER

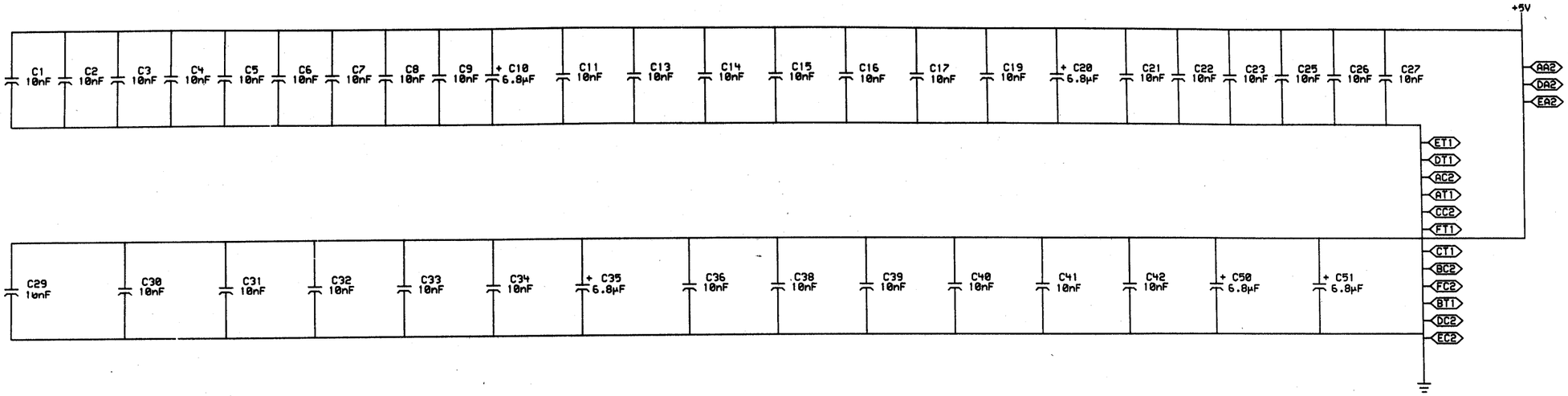
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. W. Hamlin DATE 6/3/75
CHK'D DATE 6/10/75
ENG. D. J. Chen DATE 6-3-75
BOARD LOCATION:
SHEET 1 OF 1
SIN5[4,260] 22-MAY-75 15:18
FIRST USED ON OPTION/MODEL: MG10
NEXT HIGHER ASSEMBLY: B-DD-MG10-0

TITLE: 16K SENSE/INHIBIT (G114)

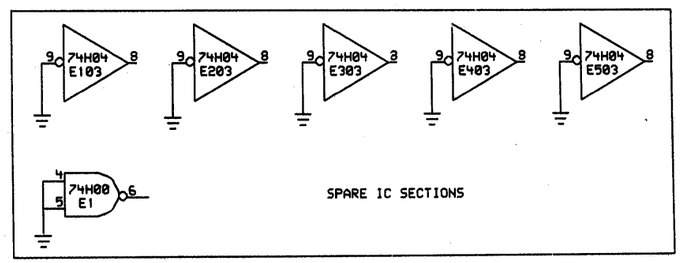
SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-SI5	*

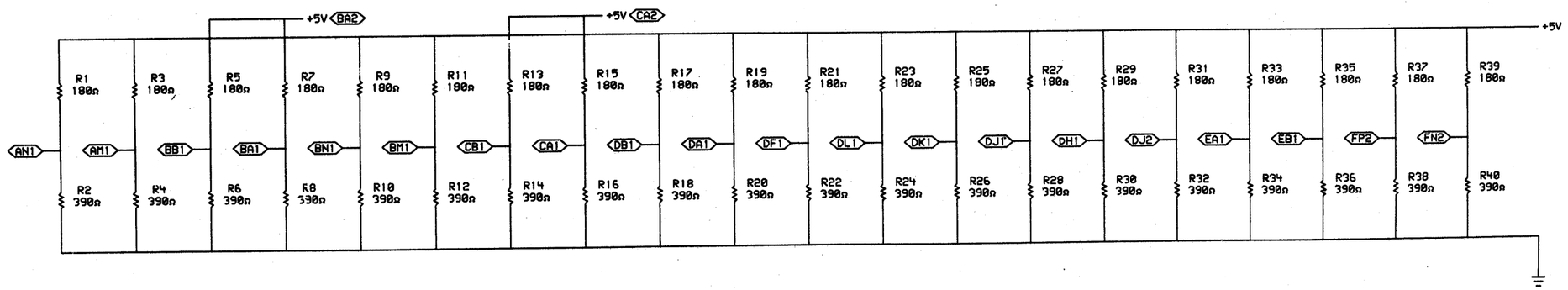


NOTES:
1)THE G114,G235 AND H217 BLOCK SCHEMATICS
IN THIS PRINT SET REPRESENT 16K BY 37 BITS,WHICH IS
1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MU-MG10-0-MUAF
AND D-MU-MG10-0-MUHL FOR THE LOCATION OF OTHER BANKS.

2)THESE PRINTS REFLECT REV F OF THE G114 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV M OF THE G235 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV B OF THE H217 CIRCUIT SCHEMATICS

3) VARIABLE DEFINITIONS
[N] INDICATES A CONTROL
[L] INDICATES A TIMING BOARD
[M] INDICATES A BANK NUMBER





REVISIONS		
CHK	CHANGE NO.	REV

digital — SIN[64,260]

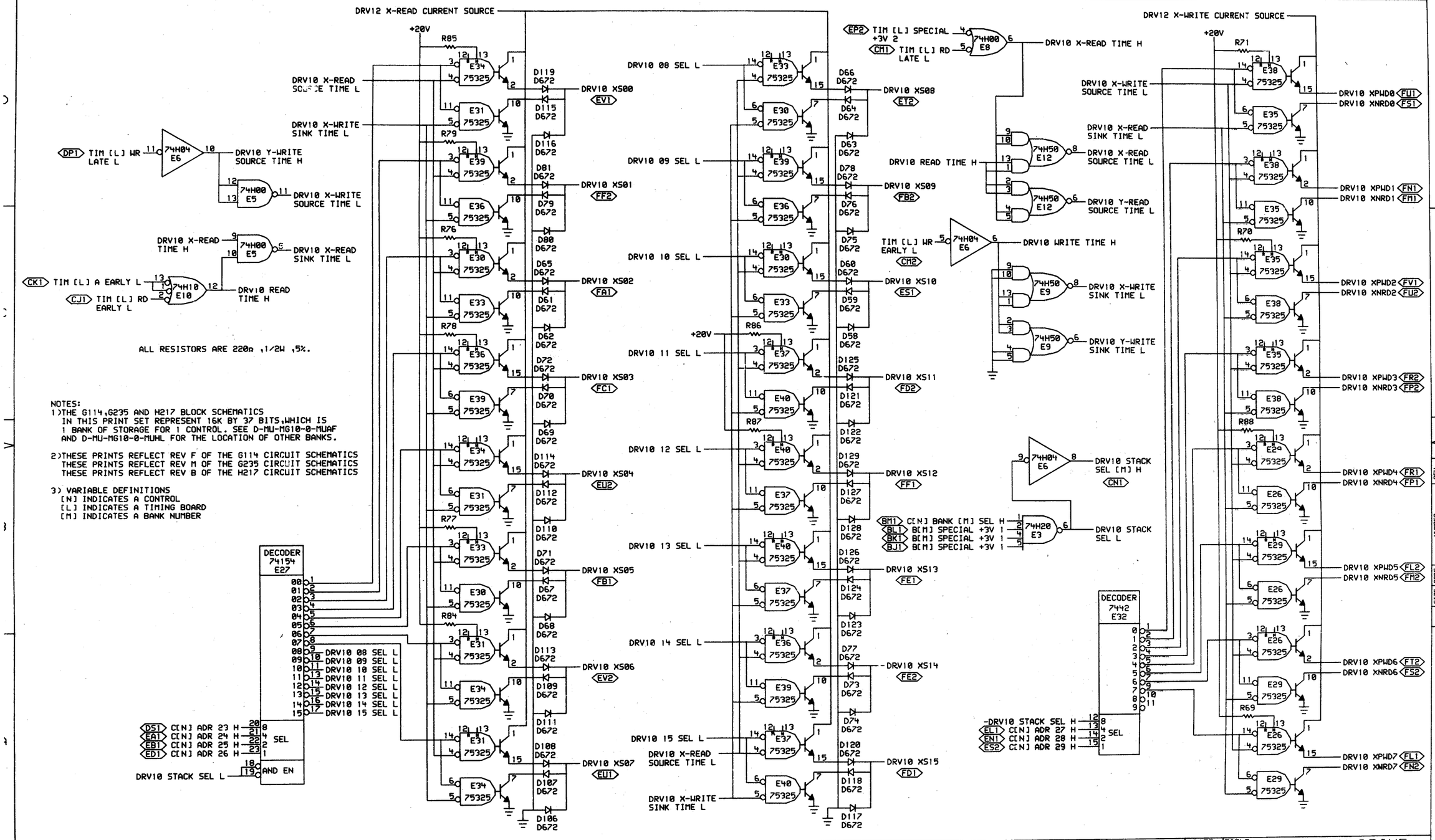
DRN W. Hamlin 6/3/75 | ENG. D. J. Chen 6-3-75 | CHK D. [illegible] 6/10/75 | 29-MAY-75 13:30

FIRST USED ON OPTION/MODEL: MG10 | NEXT HIGHER ASSEMBLY: B-DD-MG10-0 | BOARD LOCATION: SHEET 1 OF 1

TITLE: 16K SENSE/INHIBIT (G114)

SIZE D | CODE BS | NUMBER MG10-0-SI6 | REV. M

SIZE D | CODE BS | NUMBER MG10-0-SI6 | REV. M



REVISIONS		
CHK	CHANGE NO.	REV

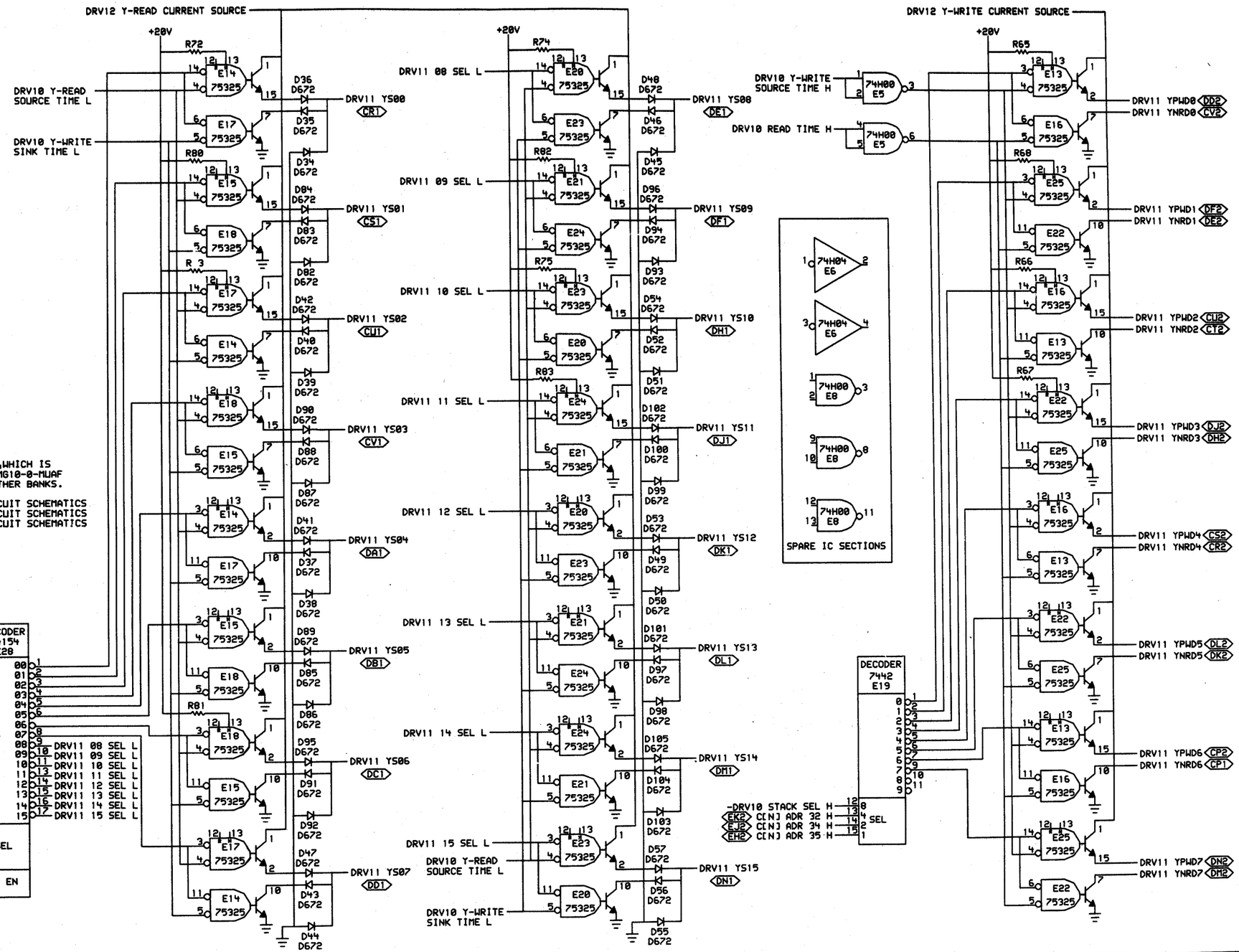
digital

DRV10[4,250] 29-MAY-75 13:42
FIRST USED ON OPTION/MODEL: MG10 .

DRN. DATE
CHK DATE 6/10/75
ENG. J Clair DATE 6-5-75
BOARD LOCATION:
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-MG10-0

TITLE: 16K X-Y DRIVE (G235)

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-DR10	*



ALL RESISTORS ARE 270Ω ,1/2W ,5%.

NOTES:
1)THE G114,G235 AND H217 BLOCK SCHEMATICS
IN THIS PRINT SET REPRESENT 16K BY 37 BITS,WHICH IS
1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MU-MG10-0-MUAF
AND D-MU-MG10-0-MUHL FOR THE LOCATION OF OTHER BANKS.

2)THESE PRINTS REFLECT REV F OF THE G114 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV M OF THE G235 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV B OF THE H217 CIRCUIT SCHEMATICS

3) VARIABLE DEFINITIONS
[N] INDICATES A CONTROL
[L] INDICATES A TIMING BOARD
[M] INDICATES A BANK NUMBER

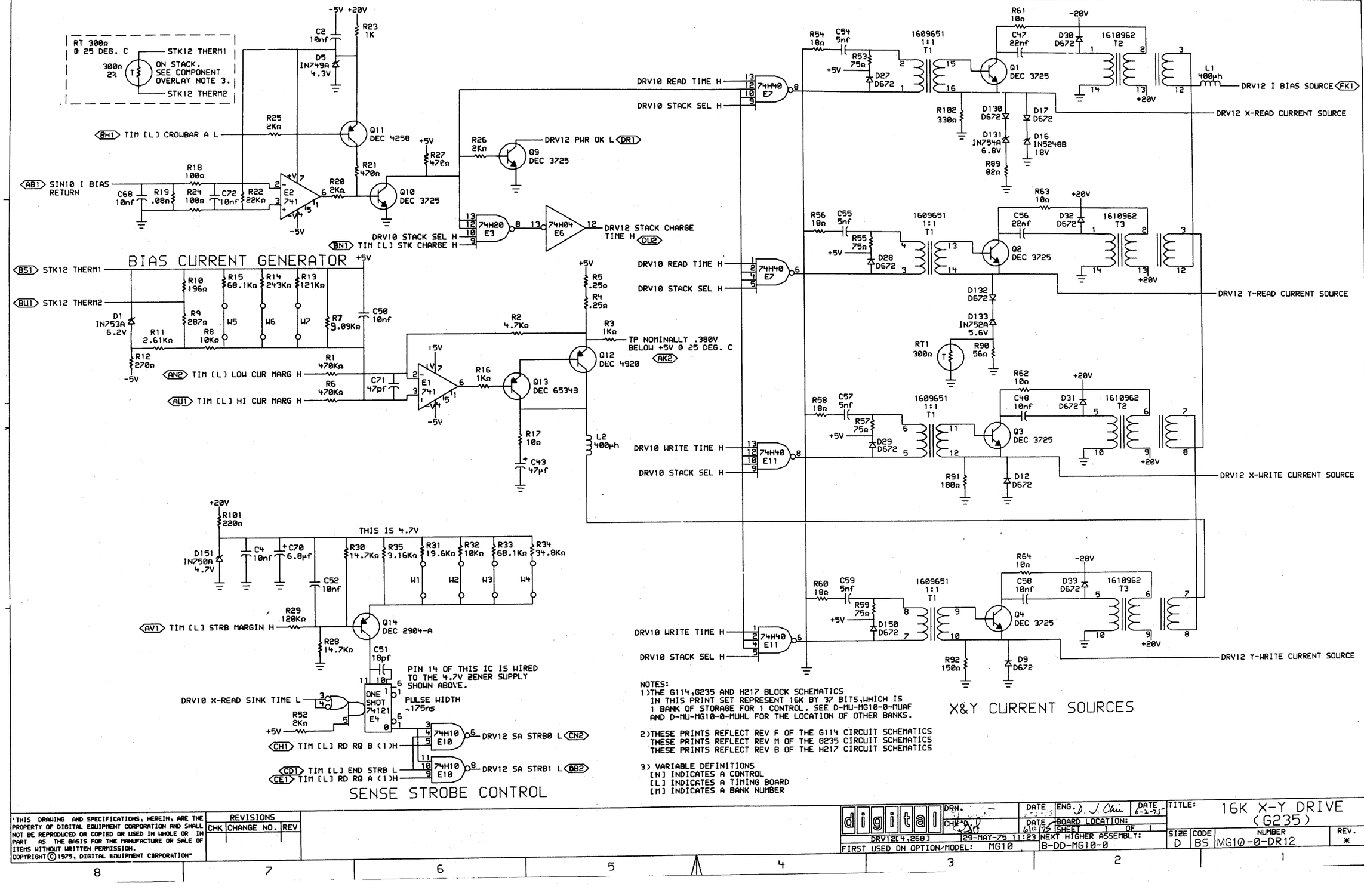
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. DATE 6-2-75 ENG. D. J. Chin DATE 6-2-75
CHK'D DATE 6/2/75 BOARD LOCATION:
DRV11(4,260) 22-MAY-75 14:43 SHEET 1 OF 1
FIRST USED ON OPTION/MODEL: MG10 NEXT HIGHER ASSEMBLY: B-DD-MG10-0

TITLE: 16K X-Y DRIVE (G235)

SIZE	CODE	NUMBER	REV.
D	BS	MGIØ-Ø-DR11	*



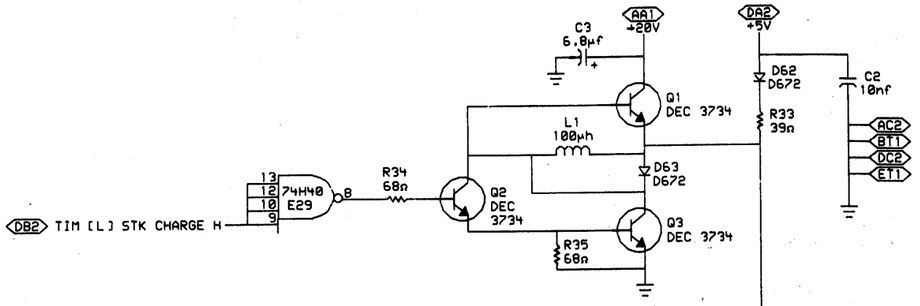
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. | DATE | ENG. D. J. Chin | DATE 6-2-75
CHK | DATE 6/10/75 | BOARD LOCATION:
DRV12[4,260] | 29-MAY-75 11:23 | SHEET 1 OF 1 | NEXT HIGHER ASSEMBLY: B-DD-MG10-0
FIRST USED ON OPTION/MODEL: MG10

TITLE: 16K X-Y DRIVE (G235)

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-DR12	*

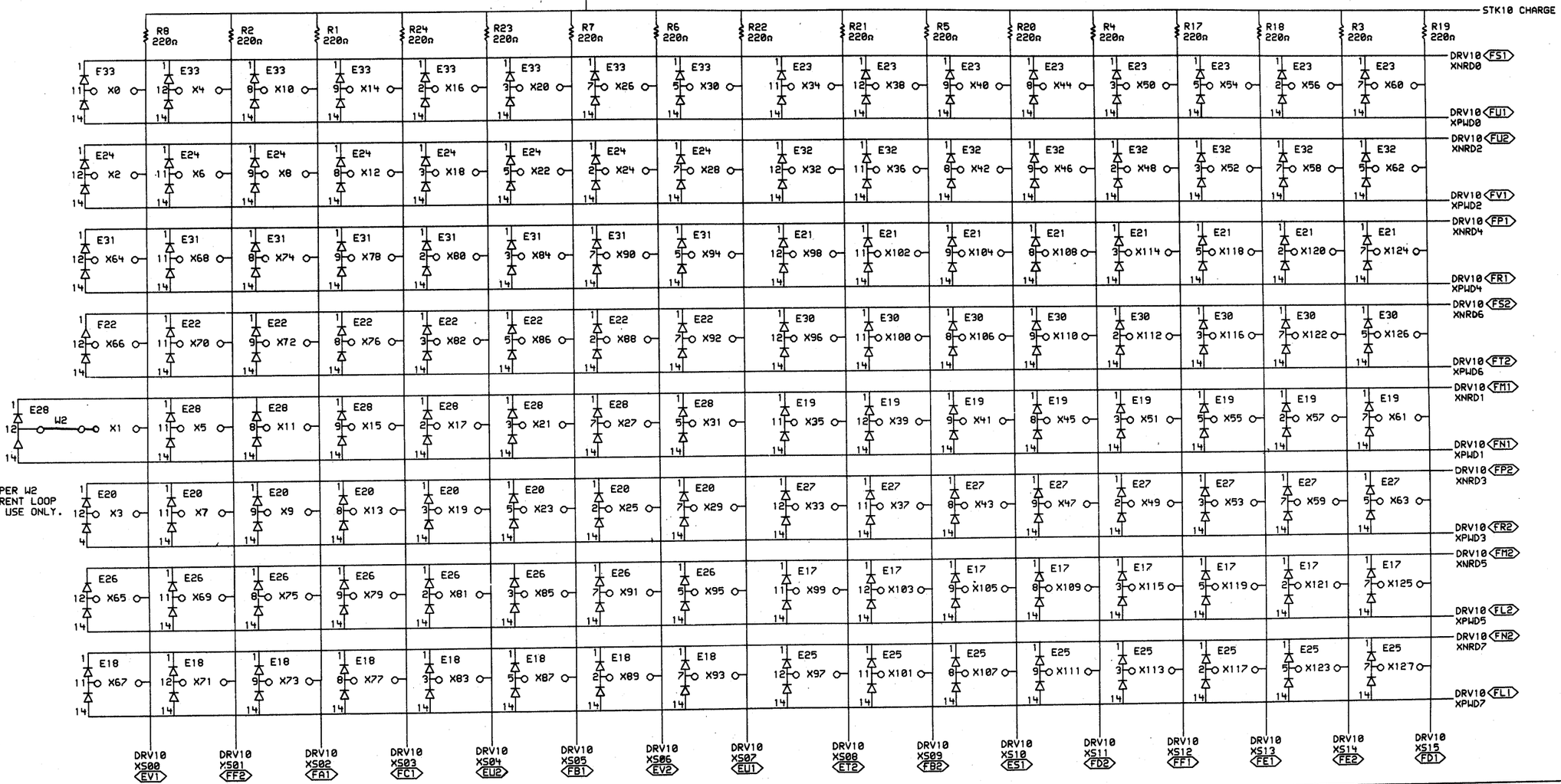


NOTES:
1)THE G114,G235 AND H217 BLOCK SCHEMATICS
IN THIS PRINT SET REPRESENT 16K BY 37 BITS,WHICH IS
1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MU-MG10-0-MUAF
AND D-MU-MG10-0-MUHL FOR THE LOCATION OF OTHER BANKS.

2)THESE PRINTS REFLECT REV F OF THE G114 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV M OF THE G235 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV B OF THE H217 CIRCUIT SCHEMATICS

3) VARIABLE DEFINITIONS
[N] INDICATES A CONTROL
[L] INDICATES A TIMING BOARD
[M] INDICATES A BANK NUMBER

X AXIS



NOTE: JUMPER W2 IS A CURRENT LOOP FOR TEST USE ONLY.

REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN W. Hamlin DATE 6/3/75
CHK'D DATE 6/6/75
ENG. D. J. Clem DATE 6-3-75
BOARD LOCATION:
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-MG10-0
STK10[4,260] 29-MAY-75 13:17
FIRST USED ON OPTION/MODEL: MG10

TITLE: STACK MODULE (H217B)

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-ST10	*

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

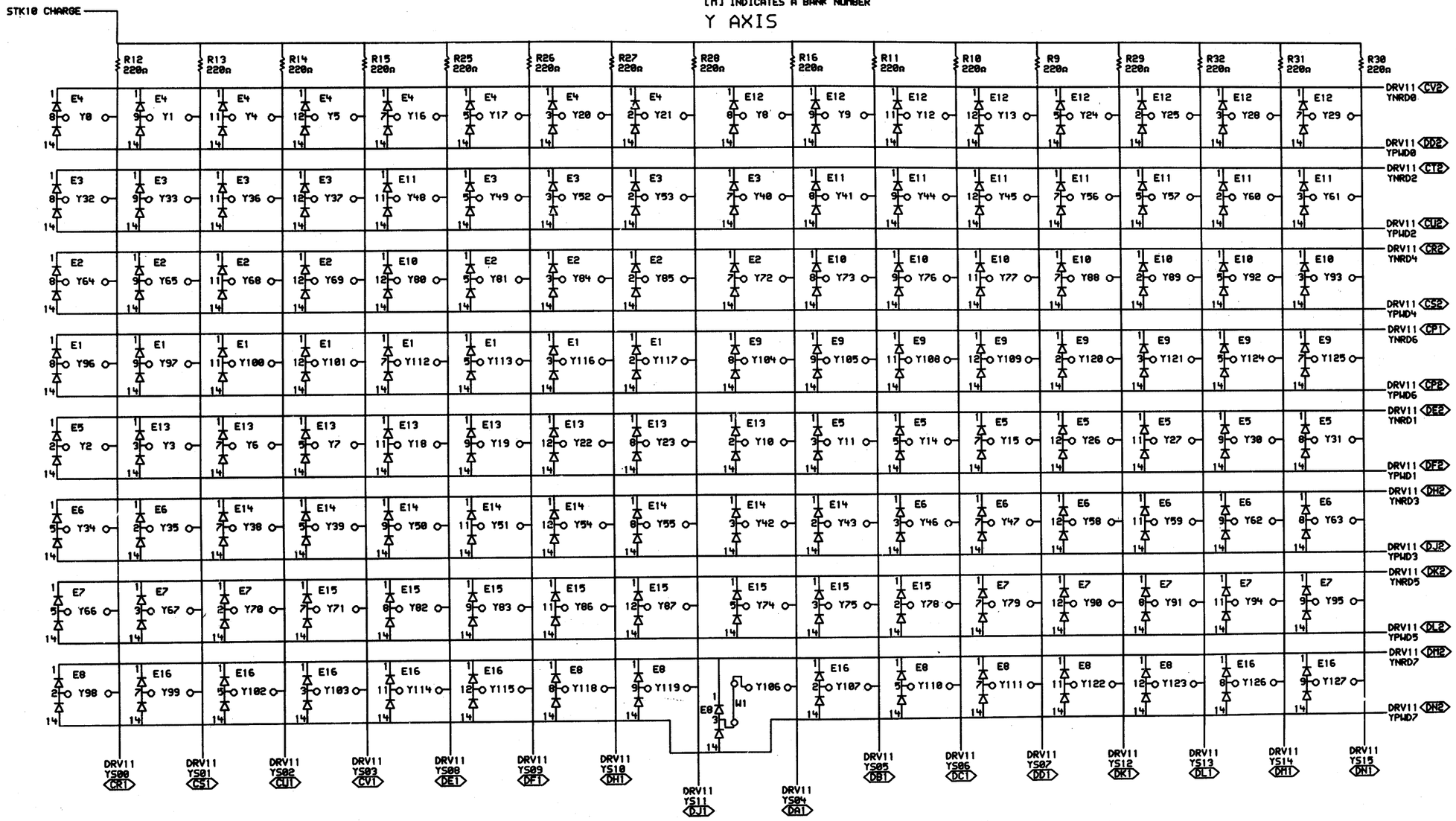
NOTES:
1)THE G114,G235 AND H217 BLOCK SCHEMATICS
IN THIS PRINT SET REPRESENT 16K BY 37 BITS,WHICH IS
1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MU-MG10-0-MUAF
AND D-MU-MG10-0-MUML FOR THE LOCATION OF OTHER BANKS.

2)THESE PRINTS REFLECT REV F OF THE G114 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV M OF THE G235 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV B OF THE H217 CIRCUIT SCHEMATICS

3) VARIABLE DEFINITIONS
[N] INDICATES A CONTROL
[L] INDICATES A TIMING BOARD
[M] INDICATES A BANK NUMBER

STK10 CHARGE

Y AXIS



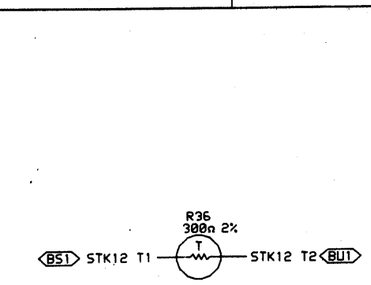
NOTE: JUMPER W1 IS A CURRENT LOOP FOR TEST USE ONLY.

REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. W. Hamlin — DATE 6/3/75
CHK'D — DATE 6/10/75
ENG. D. J. Chen — DATE 6-3-75
BOARD LOCATION:
SHEET OF
NEXT HIGHER ASSEMBLY: B-DD-MG10-0
STK11(4,250) 29-MAY-75 13:22
FIRST USED ON OPTION/MODEL: MG10

TITLE: STACK MODULE (H217B)
SIZE D | CODE BS | NUMBER MG10-0-ST11 | REV. M

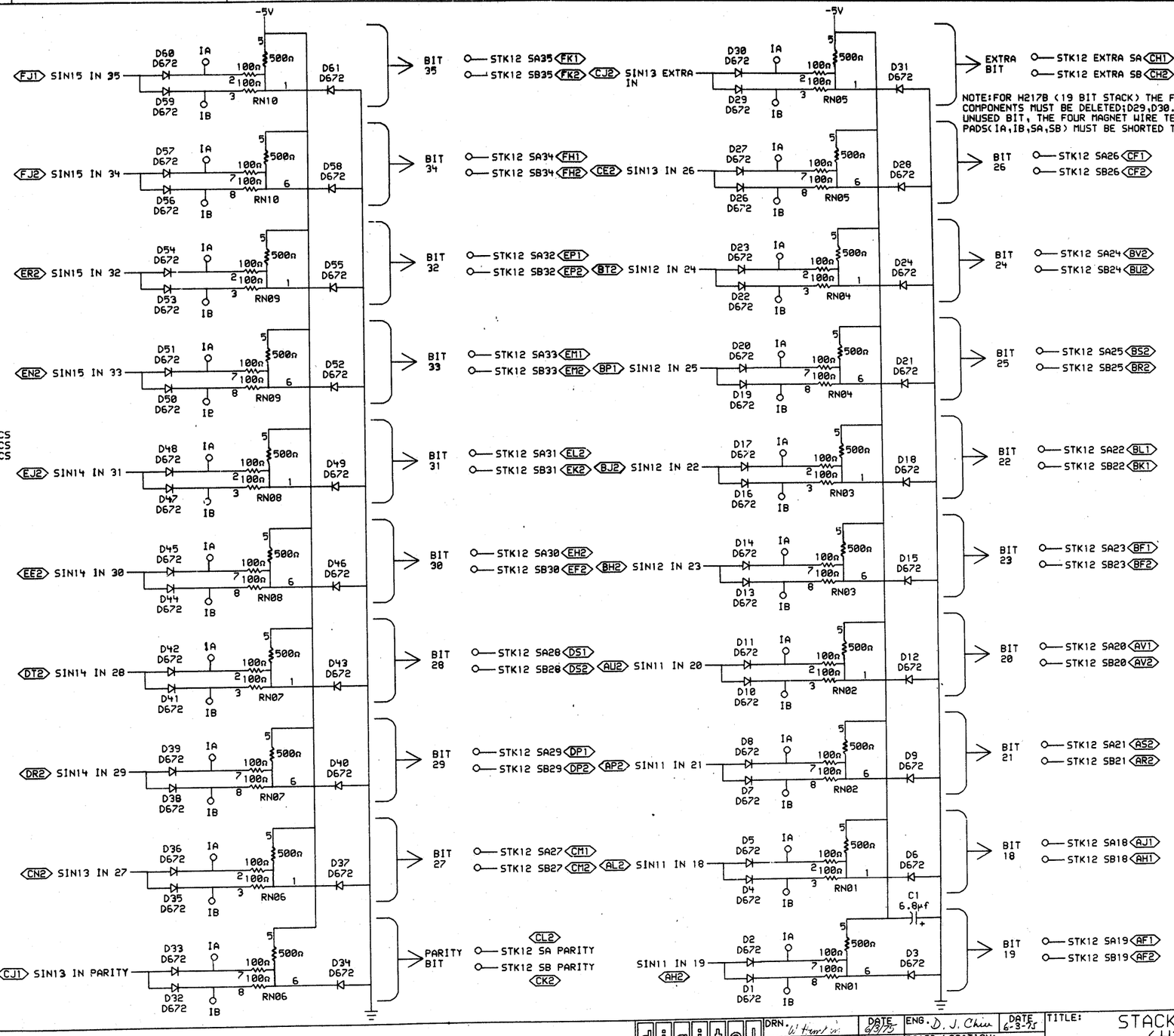


NOTE: THERMISTOR FOR TEMPERATURE COMPENSATION.

NOTES:
1) THE G114, G235 AND H217 BLOCK SCHEMATICS IN THIS PRINT SET REPRESENT 16K BY 37 BITS, WHICH IS 1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MU-MG10-0-MUAF AND D-MU-MG10-0-MUHL FOR THE LOCATION OF OTHER BANKS.

2) THESE PRINTS REFLECT REV F OF THE G114 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV M OF THE G235 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV B OF THE H217 CIRCUIT SCHEMATICS

3) VARIABLE DEFINITIONS
[N] INDICATES A CONTROL
[L] INDICATES A TIMING BOARD
[M] INDICATES A BANK NUMBER



NOTE: FOR H217B (19 BIT STACK) THE FOLLOWING COMPONENTS MUST BE DELETED; D29, D30. FOR THE UNUSED BIT, THE FOUR MAGNET WIRE TERMINATION PADS (IA, IB, SA, SB) MUST BE SHORTED TOGETHER.

REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. W. Hamilton DATE 6/3/75
CHK'D. [illegible] DATE 6/6/75
ENG. D. J. Chin DATE 6-3-75
BOARD LOCATION:
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-MG10-0
STK12[4,260] 29-MAY-75 14:08
FIRST USED ON OPTION/MODEL: MG10

TITLE: STACK MODULE (H217B)

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-ST12	*

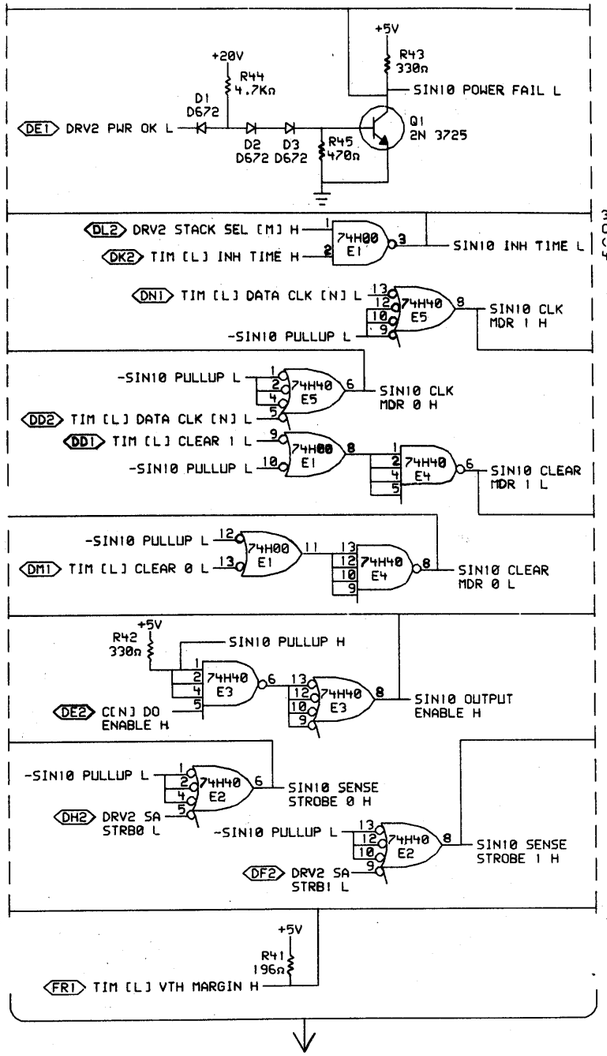
DRV2 I BIAS SOURCE
FU1

SIN15 I BIAS
SIN14 I BIAS
SIN13 I BIAS
SIN13 I BIAS
SIN12 I BIAS
SIN10 I BIAS RETURN
AB1
(SIN11 I BIAS)

500 SERIES COMPON ENTS (SEE SHEET 6----SIN15)

400 SERIES COMPON ENTS (SEE SHEET 5----SIN14)

300 SERIES COMPON ENTS (SEE SHEET 4----SIN13)



200 SERIES COMPON ENTS (SEE SHEET 3---SIN12)

100 SERIES COMPON ENTS (SEE SHEET 2----SIN11)

NOTE: ALL COMPONENT SECTIONS USE -5V, +5V, +20V, GND THEREFORE THE CONNECTIONS SHOWN ON D-CS-G114-0-1 HAVE NOT BEEN SHOWN HERE.

TERMINATORS, CAPACITORS AND SPARE IC SECTIONS SHOWN ON D-CS-G114-0-1 AND OTHER SHEETS OF THE MODULE SCHEMATIC HAVE BEEN PUT ON SHEET 7 OF 7 OF THIS PRINT SET.

THIS IS THE SIN10 PRINT. THE REST OF THIS DRAWING IS A BLOCK DIAGRAM OF THE OTHER SHEETS.

NOTES:
1) THE G114, G235 AND H217 BLOCK SCHEMATICS IN THIS PRINT SET REPRESENT 16K BY 37 BITS, WHICH IS 1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MU-MG10-0-MUAF AND D-MU-MG10-0-MUHL FOR THE LOCATION OF OTHER BANKS.

2) THESE PRINTS REFLECT REV F OF THE G114 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV M OF THE G235 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV B OF THE H217 CIRCUIT SCHEMATICS

3) VARIABLE DEFINITIONS
[N] INDICATES A CONTROL
[L] INDICATES A TIMING BOARD
[M] INDICATES A BANK NUMBER

REVISIONS		
CHK	CHANGE NO.	REV

digital

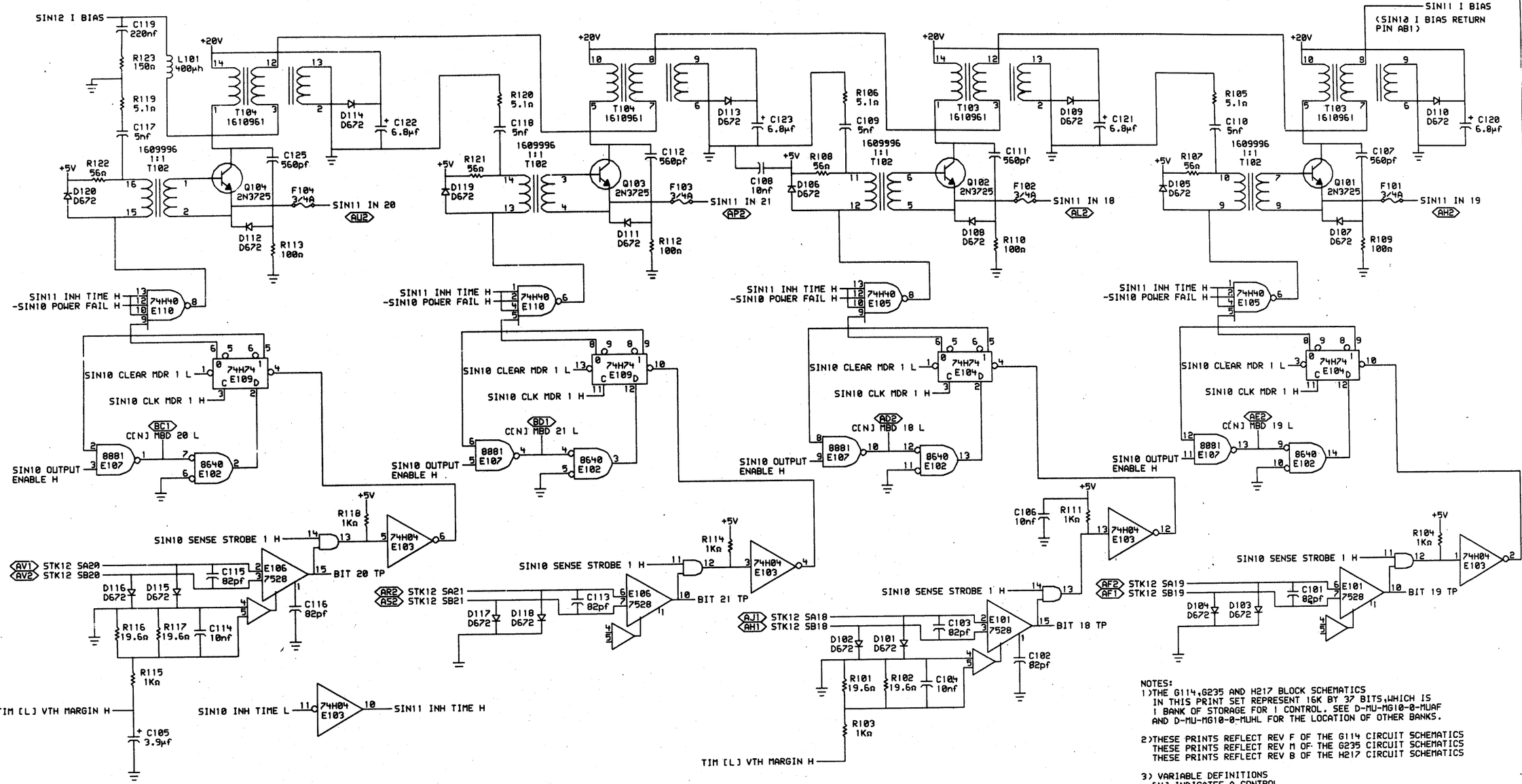
SIN10[4,260] 29-MAY-75 13:56
FIRST USED ON OPTION/MODEL: MG10

DRN W. Hamlin DATE 6/3/75
CHK'D DATE 6/10/75
ENG. D.J. Chen DATE 6-3-75
BOARD LOCATION:
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-MG10-0

TITLE: 16K SENSE/INHIBIT (G114)

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-SI10	*

8 7 6 5 4 3 2 1



NOTES:
1) THE G114, G235 AND H217 BLOCK SCHEMATICS IN THIS PRINT SET REPRESENT 16K BY 37 BITS, WHICH IS 1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MU-MG10-0-MUAF AND D-MU-MG10-0-MUHL FOR THE LOCATION OF OTHER BANKS.

2) THESE PRINTS REFLECT REV F OF THE G114 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV M OF THE G235 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV B OF THE H217 CIRCUIT SCHEMATICS

3) VARIABLE DEFINITIONS
[N] INDICATES A CONTROL
[L] INDICATES A TIMING BOARD
[M] INDICATES A BANK NUMBER

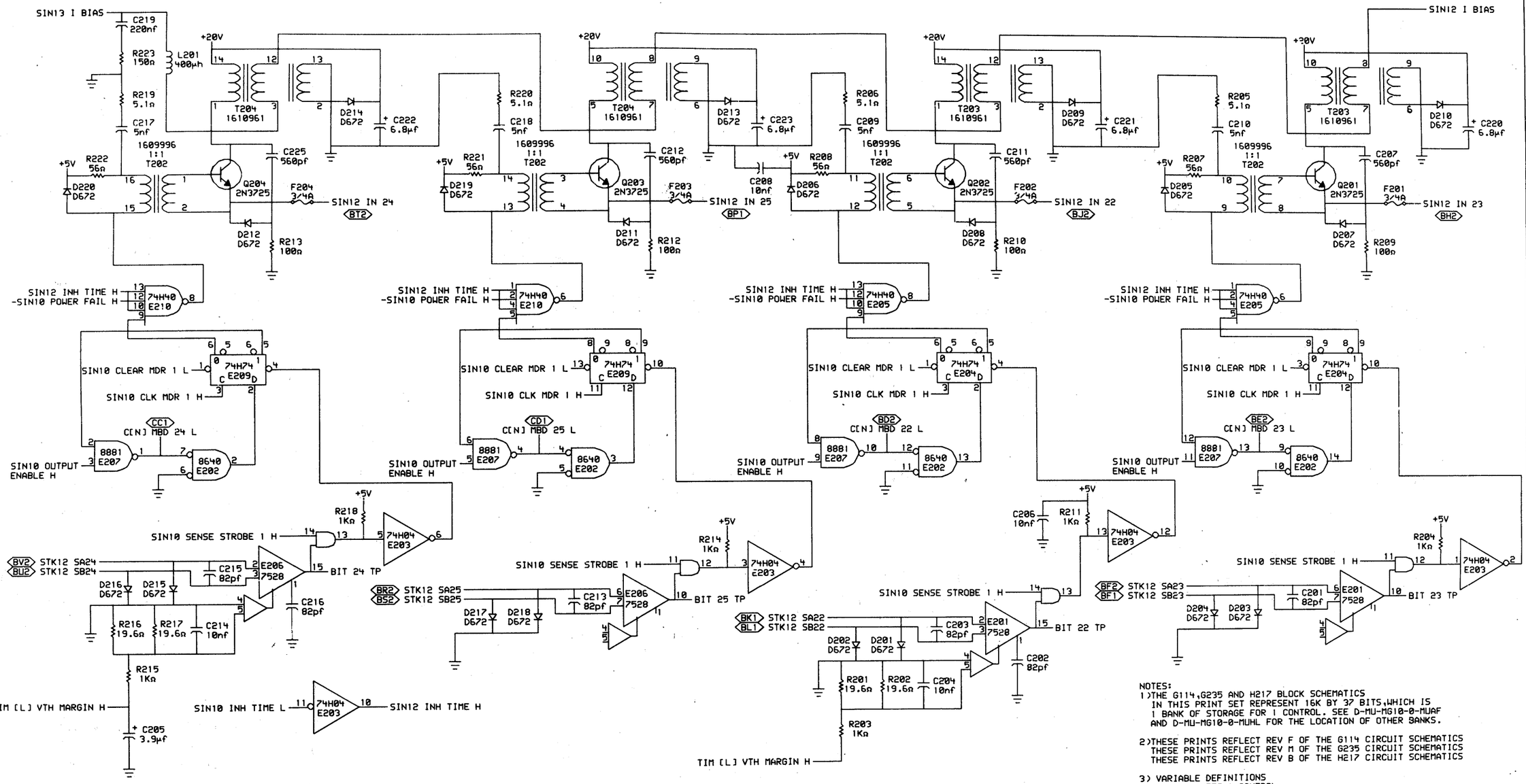
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. W. Hamilton DATE 6/3/75
CHK'D DATE 6/13/75
ENG. D. J. Chen DATE 6-3-75
BOARD LOCATION:
SHEET 1 OF 1
SIN11[4,260] 22-MAY-75 15:22
FIRST USED ON OPTION/MODEL: MG10
NEXT HIGHER ASSEMBLY: B-DD-MG10-0

TITLE: 16K SENSE/INHIBIT (G114)

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-SI11	*



NOTES:
1)THE G114,G235 AND H217 BLOCK SCHEMATICS IN THIS PRINT SET REPRESENT 16K BY 37 BITS,WHICH IS 1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MU-MG10-0-MUAF AND D-MU-MG10-0-MUHL FOR THE LOCATION OF OTHER BANKS.

2)THESE PRINTS REFLECT REV F OF THE G114 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV M OF THE G235 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV B OF THE H217 CIRCUIT SCHEMATICS

3) VARIABLE DEFINITIONS
[N] INDICATES A CONTROL
[L] INDICATES A TIMING BOARD
[M] INDICATES A BANK NUMBER

REVISIONS		
CHK	CHANGE NO.	REV

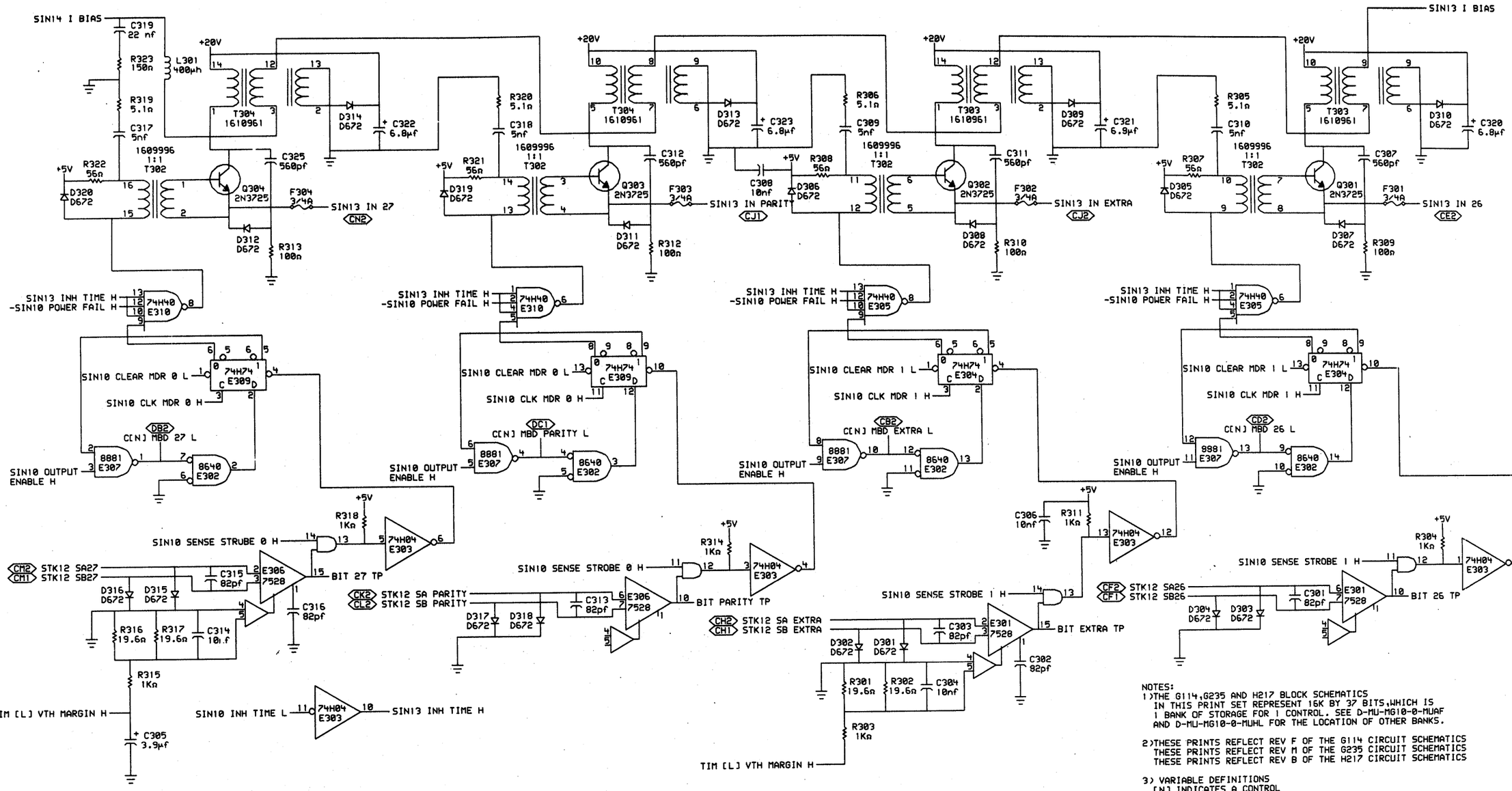
digital

DRN. W. Hamblin DATE 6/27/75
CHK'D. DATE 6/10/75
ENG. D. J. Chen DATE 6-3-75
BOARD LOCATION:
SHEET 1 OF 1
SIN12[4,260] 22-MAY-75 15:23
NEXT HIGHER ASSEMBLY. B-DD-MG10-0
FIRST USED ON OPTION/MODEL: MG10.

TITLE: 16K SENSE/INHIBIT (G114)

SIZE	CODE	NUMBER	REV.
D	BS	MGIØ-0-SI12	*

REV. * | NUMBER MG10-0-SI12 | SIZE D CODE BS



NOTES:
1>THE G114,G235 AND H217 BLOCK SCHEMATICS IN THIS PRINT SET REPRESENT 16K BY 37 BITS,WHICH IS 1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MU-MG10-0-MUAF AND D-MU-MG10-0-MUHL FOR THE LOCATION OF OTHER BANKS.

2>THESE PRINTS REFLECT REV F OF THE G114 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV M OF THE G235 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV B OF THE H217 CIRCUIT SCHEMATICS

3) VARIABLE DEFINITIONS
[N] INDICATES A CONTROL
[L] INDICATES A TIMING BOARD
[M] INDICATES A BANK NUMBER

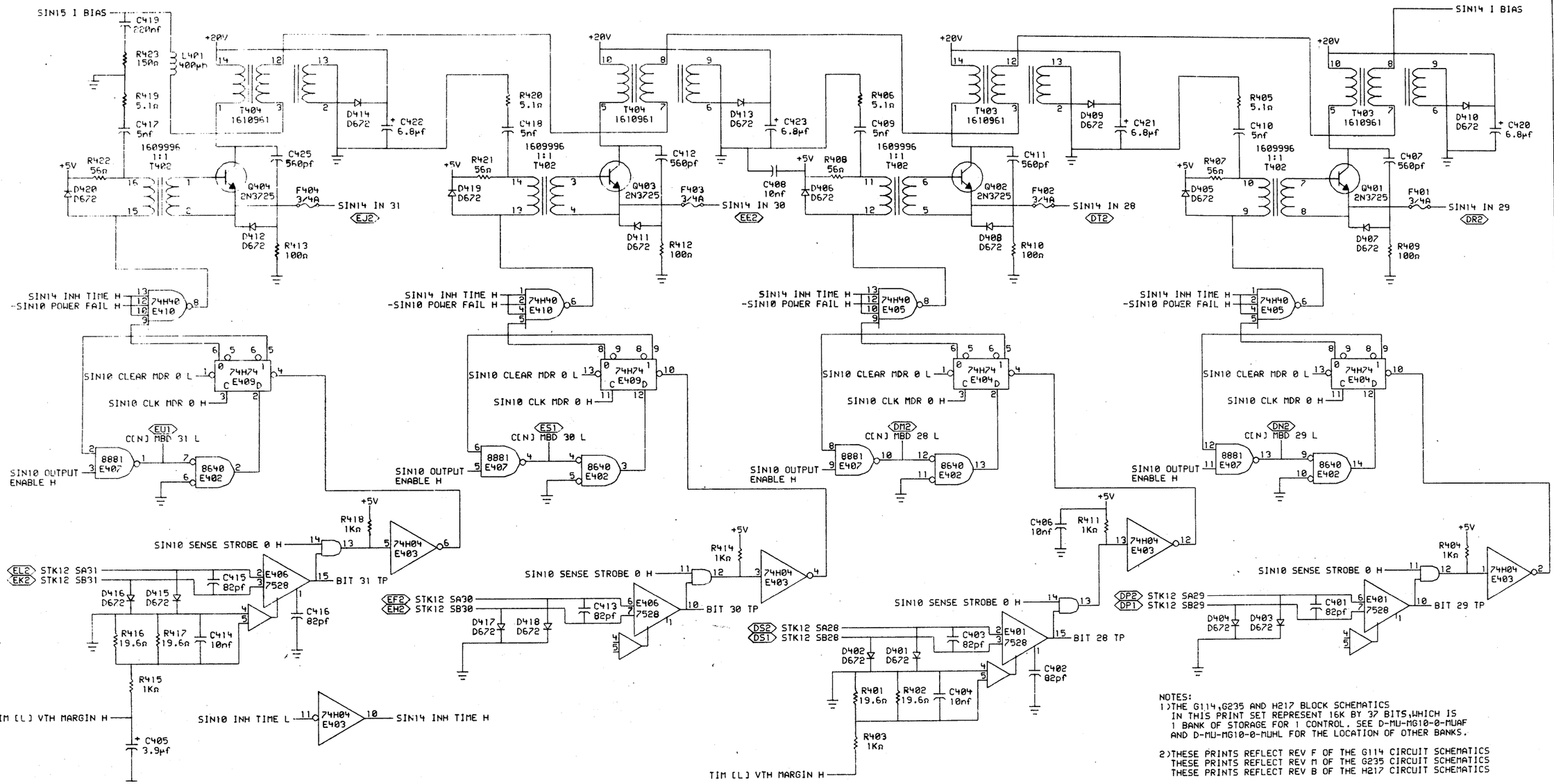
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. W. Hamlin DATE 6/3/75
CHK'D DATE 6/10/75
ENG. D. J. Clem DATE 6-3-75
BOARD LOCATION:
SHEET 1 OF 1
SIN13[4,260] 22-MAY-75 15:24
NEXT HIGHER ASSEMBLY: B-DD-MG10-0
FIRST USED ON OPTION/MODEL: MG10

TITLE: 16K SENSE/INHIBIT (G114)

SIZE D | CODE BS | NUMBER MG10-0-SI13 | REV. *



NOTES:
1) THE G114, G235 AND H217 BLOCK SCHEMATICS IN THIS PRINT SET REPRESENT 16K BY 37 BITS, WHICH IS 1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MU-MG10-0-MUAF AND D-MU-MG10-0-MUHL FOR THE LOCATION OF OTHER BANKS.

2) THESE PRINTS REFLECT REV F OF THE G114 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV M OF THE G235 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV B OF THE H217 CIRCUIT SCHEMATICS

3) VARIABLE DEFINITIONS
[N] INDICATES A CONTROL
[L] INDICATES A TIMING BOARD
[M] INDICATES A BANK NUMBER

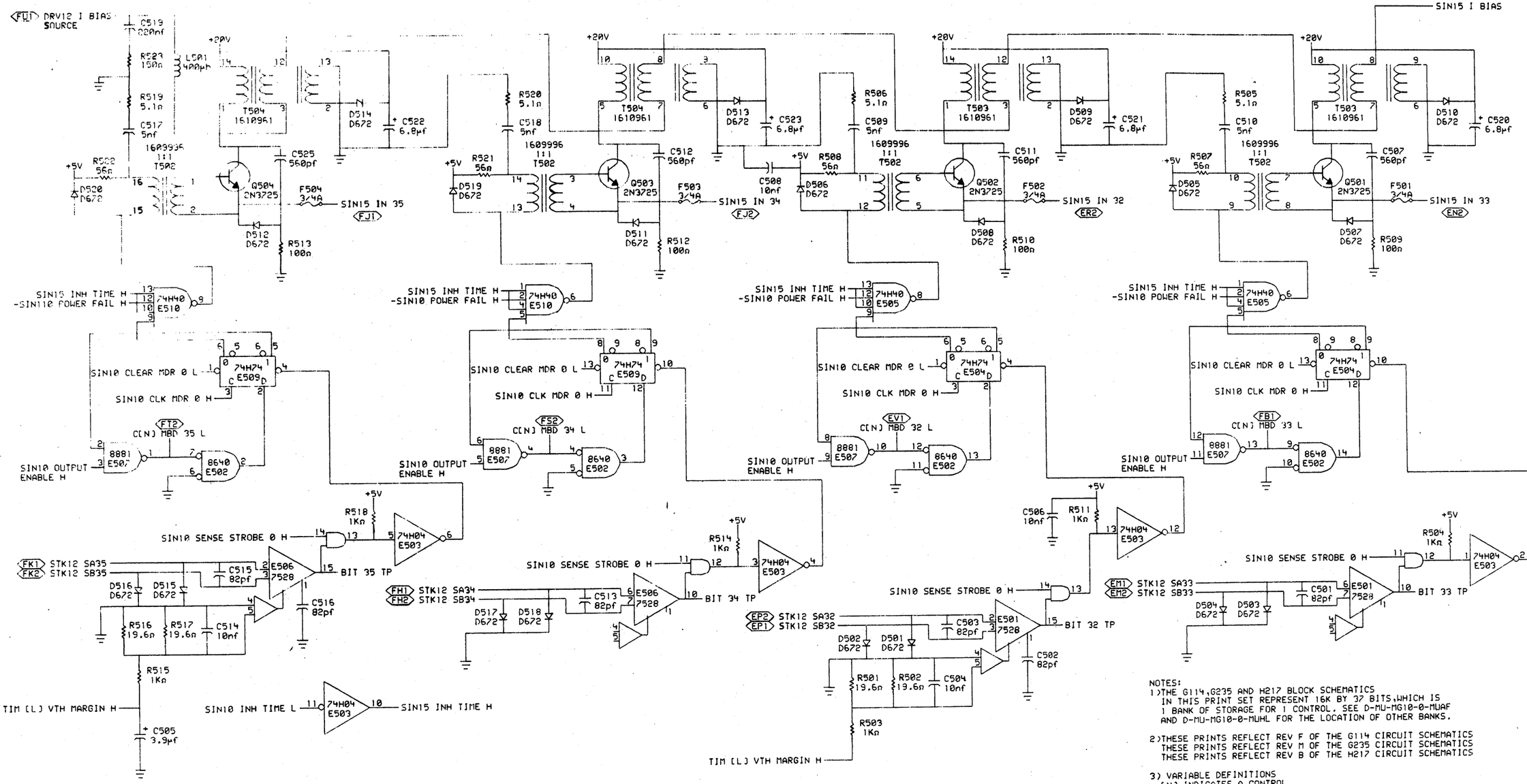
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. W. Hamlin DATE 6/3/75 ENG. D. J. Chu DATE 6-3-75
CHK D. J. C DATE 6/10/75 BOARD LOCATION:
SHEET 1 OF 1
SIN14[4,260] 22-MAY-75 15:27 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MG10 B-DD-MG10-0

TITLE: 16K SENSE/INHIBIT (G114)

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-SI14	*



NOTES:
1)THE G114,G235 AND H217 BLOCK SCHEMATICS
IN THIS PRINT SET REPRESENT 16K BY 37 BITS,WHICH IS
1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MU-MG10-0-MUAF
AND D-MU-MG10-0-MUHL FOR THE LOCATION OF OTHER BANKS.

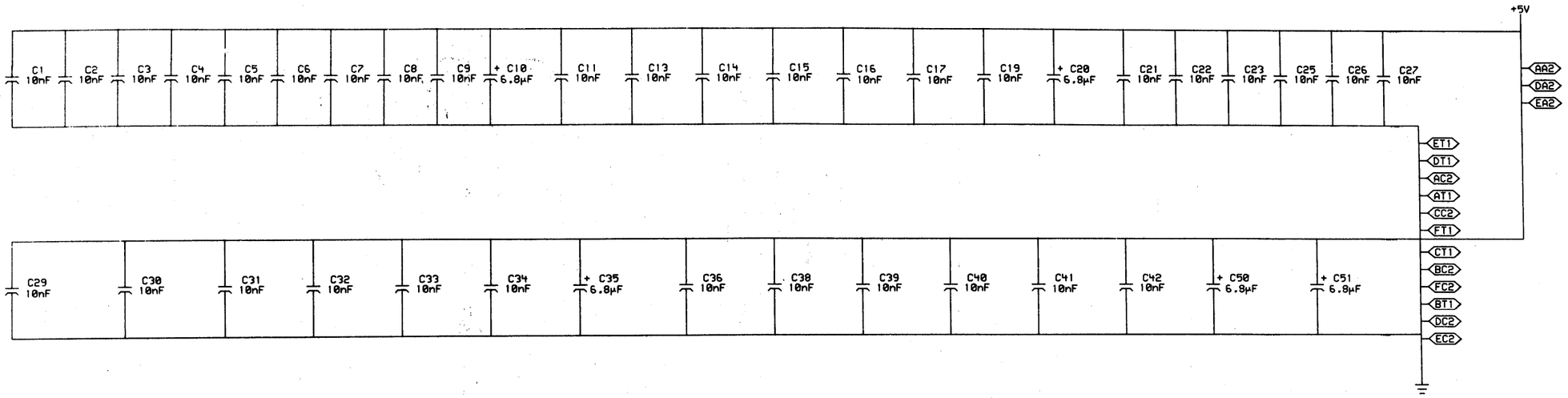
2)THESE PRINTS REFLECT REV F OF THE G114 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV M OF THE G235 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV B OF THE H217 CIRCUIT SCHEMATICS

3) VARIABLE DEFINITIONS
(N) INDICATES A CONTROL
(L) INDICATES A TIMING BOARD
(M) INDICATES A BANK NUMBER

REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN. W. Hamlin	DATE 6/3/75	ENG. D.J. Chin	DATE 6-3-75	TITLE: 16K SENSE/INHIBIT (G114)
SIN15[4,260]	CHK D.	DATE 6/10/75	BOARD LOCATION:		
22-MAY-75 15:31			SHEET 1 OF 1		
FIRST USED ON OPTION/MODEL: MG10			NEXT HIGHER ASSEMBLY: B-DD-MG10-0		SIZE D · CODE BS · NUMBER MG10-0-SI15 · REV. *

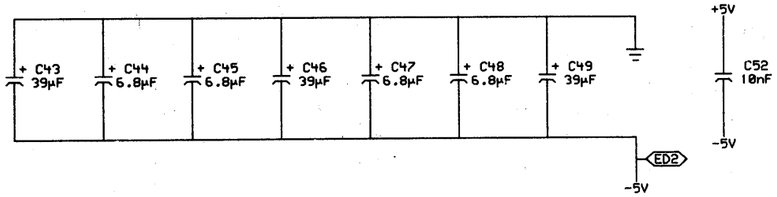
SIZE D · CODE BS · NUMBER MG10-0-SI15 · REV. *

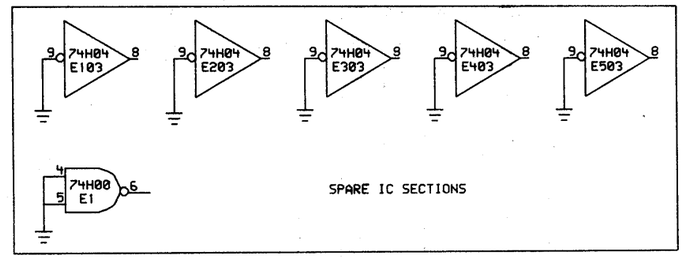


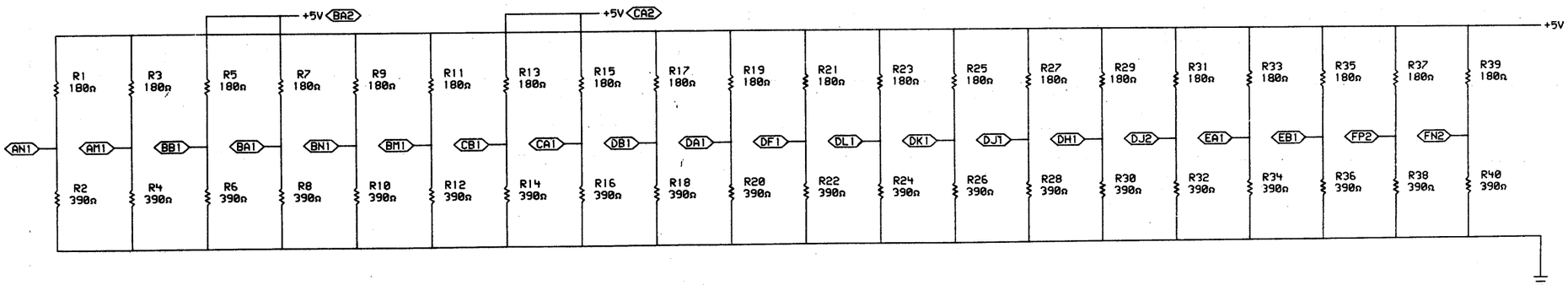
NOTES:
1)THE G114,G235 AND H217 BLOCK SCHEMATICS
IN THIS PRINT SET REPRESENT 16K BY 37 BITS,WHICH IS
1 BANK OF STORAGE FOR 1 CONTROL. SEE D-MU-MG10-0-MUAF
AND D-MU-MG10-0-MUHL FOR THE LOCATION OF OTHER BANKS.

2)THESE PRINTS REFLECT REV F OF THE G114 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV M OF THE G235 CIRCUIT SCHEMATICS
THESE PRINTS REFLECT REV B OF THE H217 CIRCUIT SCHEMATICS

3) VARIABLE DEFINITIONS
[N] INDICATES A CONTROL
[L] INDICATES A TIMING BOARD
[M] INDICATES A BANK NUMBER







REVISIONS		
CHK	CHANGE NO.	REV

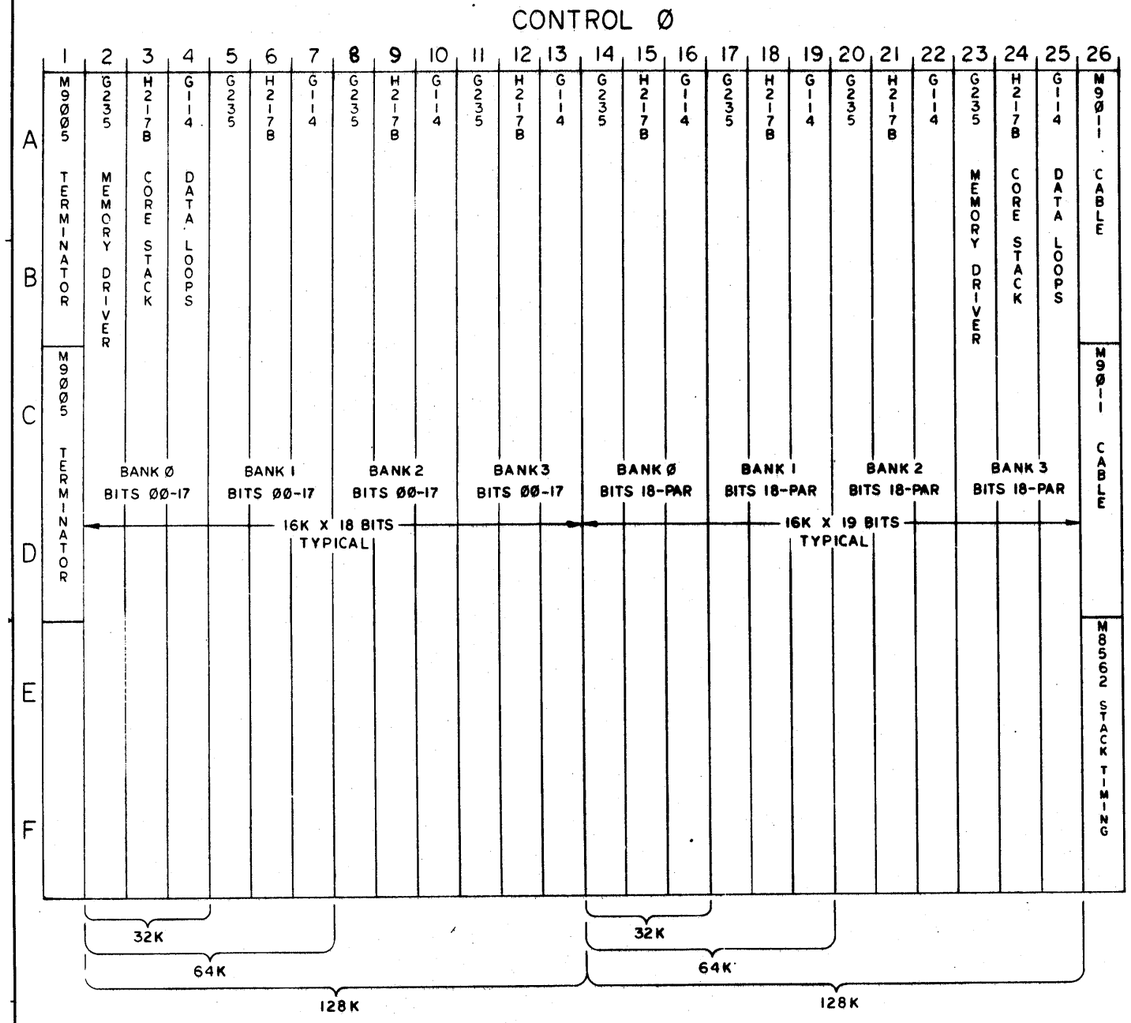
digital

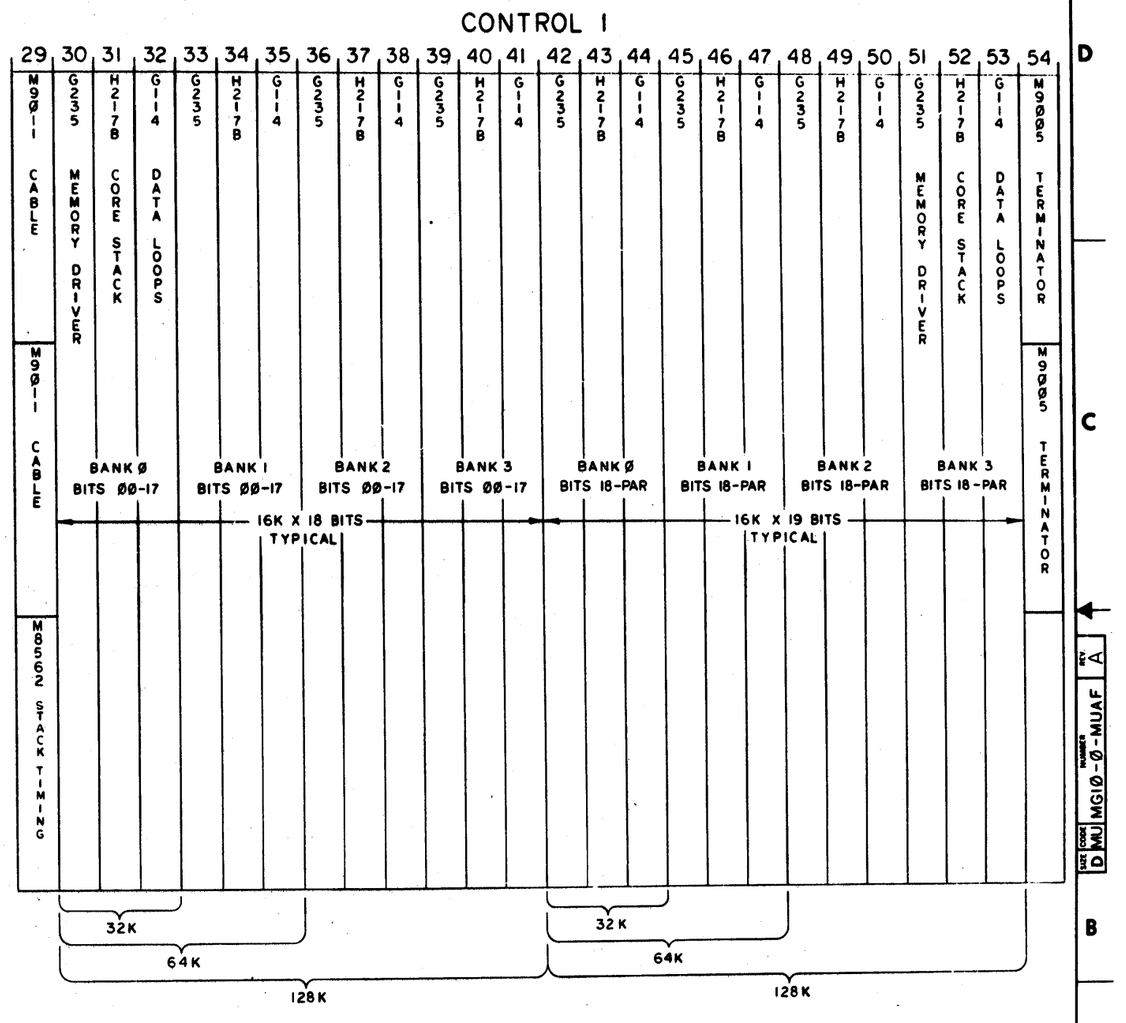
DRN. W. Hamilton DATE 6/3/75
CHK'D. DATE 6/10/75
ENG. D. J. Chin DATE 6-3-75
BOARD LOCATION:
SHEET 1 OF 1
SIN16[4,260] 29-MAY-75 13:32
FIRST USED ON OPTION/MODEL: MG10
NEXT HIGHER ASSEMBLY: B-DD-MG10-0

TITLE: 16K SENSE/INHIBIT (G114)

SIZE	CODE	NUMBER	REV.
D	BS	MG10-0-SI16	*

SIZE D CODE BS NUMBER MG10-0-SI16 REV. *





REVISIONS			
CHK	CHANGE NO.	REV.	
JC	MGIØ-00005	A	
R. Brown 10 NOV 76			
D. CHIN			

DRN		2/13/75
CHK'D		3/10/75
ENG.	D J Chin	3-17-75
PROJ. ENG.	D J Chin	3-17-75
PROD.		3-21-75
NEXT HIGHER ASSY.		
B-DD-MGIØ-Ø		
SCALE	—	
SHEET	1 OF 1	

FIRST USED ON: MGIØ

digital

TITLE: MODULE UTILIZATION

SIZE	CODE	NUMBER	REV.
D	MU	MGIØ-Ø-MUAF	A

DIST.

DEC FORM NO. DRD 102-D

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
H	M9408	M9408	M9408 IND	M9408 CABLES	M9408	M9408	M9408		M8594 DATA XCVR P0, P1 BITS 08-15	M8594 DATA XCVR P2, P3 BITS 08-15	M8594 DATA XCVR P4, P5 BITS 08-15	M8594 DATA XCVR P6, P7 BITS 08-15	M8593 DATA REG MB BITS 08-15	M8588 PARITY CHECK C1 DATA BITS 18-PAR	M8588 PARITY CHECK C0 DATA BITS 18-PAR	M8588 PARITY CHECK C1 DATA BITS 00-17	M8588 PARITY CHECK C0 DATA BITS 00-17	M8594 DATA XCVR P0, P1 BITS 00-07	M8594 DATA XCVR P2, P3 BITS 00-07	M8594 DATA XCVR P4, P5 BITS 00-07	M8594 DATA XCVR P6, P7 BITS 00-07	M8593 DATA REG MB BITS 00-07	M9005 TERMI-NATOR			M9011 C0 CABLE BC20D	M9011 C1 CABLE BC20D	M8589 C0 CYCLE TIMING	M8589 C1 CYCLE TIMING	M8592 P7 ADDR INTER-FACE	M8592 P6 ADDR INTER-FACE	M8592 P5 ADDR INTER-FACE	M8592 P4 ADDR INTER-FACE	M8592 P3 ADDR INTER-FACE	M8592 P2 ADDR INTER-FACE	M8592 P1 ADDR INTER-FACE	M8592 P0 ADDR INTER-FACE	G728-YA JUMP BOARD	G728-YA JUMP BOARD	M901 SW PANEL CABLE
J																																								M901 SW PANEL CABLE
K							M8594 DATA XCVR P0, P1 BITS 32-PAR, IGN PAR, RD RS, WR RS	M8594 DATA XCVR P2, P3 BITS 32-PAR, IGN PAR, RD RS, WR RS	M8594 DATA XCVR P4, P5 BITS 32-PAR, IGN PAR, RD RS, WR RS	M8594 DATA XCVR P6, P7 BITS 32-PAR, IGN PAR, RD RS, WR RS	M8593 DATA REG MB BITS 32-PAR, WR RS DISP	M8594 DATA XCVR P0, P1 BITS 24-31	M8594 DATA XCVR P2, P3 BITS 24-31	M8594 DATA XCVR P4, P5 BITS 24-31	M8594 DATA XCVR P6, P7 BITS 24-31	M8593 DATA REG MB BITS 24-31	M8594 DATA XCVR P0, P1 BITS 16-23	M8594 DATA XCVR P2, P3 BITS 16-23	M8594 DATA XCVR P4, P5 BITS 16-23	M8594 DATA XCVR P6, P7 BITS 16-23	M8593 DATA REG MB BITS 16-23	M8588 PARITY CHECK C1 M00-03 SEL. ADDR BITS 21-35	M8588 PARITY CHECK C0 M00-03 SEL. ADDR BITS 21-35	M8588 PARITY CHECK C1 P0-P7 ACT RD RQ, WR RQ	M8588 PARITY CHECK C0 P0-P7 ACT RD RQ, WR RQ	M9011 C0 CABLE BC20D	M9011 C1 CABLE BC20D	M8593-YA ADDR REG MA BITS 29-35, RD RQ	M8591 ADDR RCVR P6, P7 BITS 29-33, RD RQ, WR RQ	M8591 ADDR RCVR P4, P5 BITS 29-33, RD RQ, WR RQ	M8591 ADDR RCVR P2, P3 BITS 29-33, RD RQ, WR RQ	M8591 ADDR RCVR P0, P1 BITS 29-33, RD RQ, WR RQ	M8590 C0 PRIOR CONT	M8590 C1 PRIOR CONT	M8593-YA ADDR REG MA BITS 21-28	M8591 ADDR RCVR P6, P7 BITS 21-28	M8591 ADDR RCVR P4, P5 BITS 21-28	M8591 ADDR RCVR P2, P3 BITS 21-28	M8591 ADDR RCVR P0, P1 BITS 21-28	M8591 ADDR RCVR P0, P1 BITS 21-28	M901 SW PANEL CABLE
L																																								M901 SW PANEL CABLE

REVISIONS	REV.
CHANGE NO.	
CHK	

DRN. J. Mrozek	2/19/75	FIRST USED ON MGIØ
CHK'D		TITLE MODULE UTILIZATION
ENG.		
PROJ. ENG.		
PROD.	3-21-75	
NEXT HIGHER ASSY. B-DD-MGIØ-Ø		SIZE D CODE MU NUMBER MGIØ-Ø-MUHL REV.
SCALE —		DIST.
SHEET 1 OF 1		

DEC FORM NO. DRD 10:0

SIZE D CODE MU NUMBER MGIØ-Ø-MUHL REV

ITEM NO	MARK END	CONN. TYPE	TC	CONN TYPE	MARK END	DWG/PART NO
1	Z12	M947		M948	HØ7	7008405-05
2	Z13	↕		↕	HØ6	↕ -04
2	Z14				HØ5	-04
3	Z21				HØ4	-5F
3	Z22				HØ3	-5F
3	Z24	↓		↓	HØ2	↓ -5F
3	Z25	M947		M948	HØ1	7008405-5F
4	AB2G	M9Ø11		M9Ø11	HJ2G	BC2ØD
4	CD2G	↕		↕	KL2G	BC2ØD
4	AB29				HJ27	BC2ØD
4	CD29	M9Ø11		M9Ø11	KL27	BC2ØD
5	SW PNL J1	M9Ø1		M9Ø1	H4Ø	7006111-1
5	SW PNL J2	↕		↕	J4Ø	↕
5	SW PNL J3				K4Ø	
5	SW PNL J4	M9Ø1		M9Ø1	L4Ø	7006111-1

Z21
Z22
Z23
Z24
Z25

Z11
Z12
Z13
Z14
Z15

INDICATOR PANEL (REAR)

QTY	DESCRIPTION	DWG./PART NO.	ITEM NO.
4	PDP12 LOGIC CABLES (M9Ø1-M9Ø1)	D-IA-7006111-1-0	5
4	BC2ØD CABLE ASSY (M9Ø11-M9Ø11)	D-UA-BC2ØD-Ø-0	4
4	INDICATOR CABLE (M947-M948)	D-IA-7008405-5F-0	3
2	INDICATOR CABLE (M947-M948)	D-IA-7008405-04-0	2
1	INDICATOR CABLE (M947-M948)	D-IA-7008405-05-0	1

MGIØ

QUANTITY & VARIATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS 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 ☐	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.025	±.04	±.063	±0.1

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

DRN. E. Pouliot 3 NOV. 1

CHK'D [illegible] 3-11-75

ENG. [illegible] 3-11-75

PROJ. ENG. [illegible] 3-11-75

PROD. [illegible] 3-11-75

NEXT HIGHER ASSY.

D-UA-MGIØ-1-1

SCALE —

SHEET 1 OF 1

FIRST USED ON MGIØ

digital

TITLE CABLE SET (MGIØ)

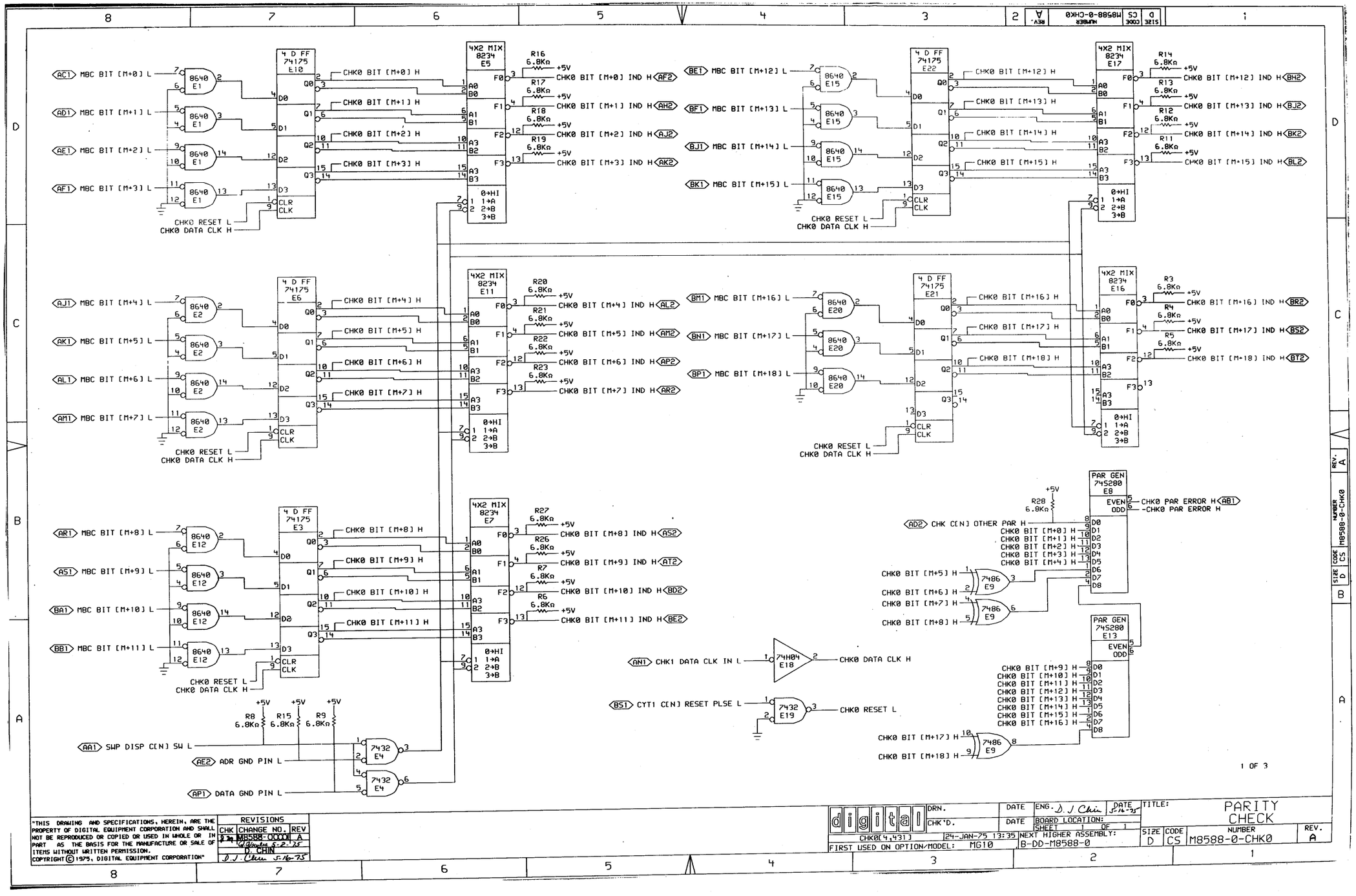
SIZE D | CODE AD | NUMBER 7010995-0-0 | REV.

DIST.

REVISIONS | REV. | CHANGE NO. | CHK

DEC FORM NO. DRD 100-C

REV. | SIZE D | CODE AD | NUMBER 7010995-C-0



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COPYRIGHT © 1975, DIGITAL EQUIPMENT CORPORATION"

REVISIONS		
CHK	CHANGE NO.	REV
D. CHIN	M8588-00001	A
D.J. Chin 5-16-75		

digital

DRN.	DATE	ENG. D.J. Chin	DATE 5-16-75
CHK'D.	DATE	BOARD LOCATION:	
CHK0[4,431]	24-JAN-75 13:35	SHEET 1 OF 1	NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MG10		B-DD-M8588-0	

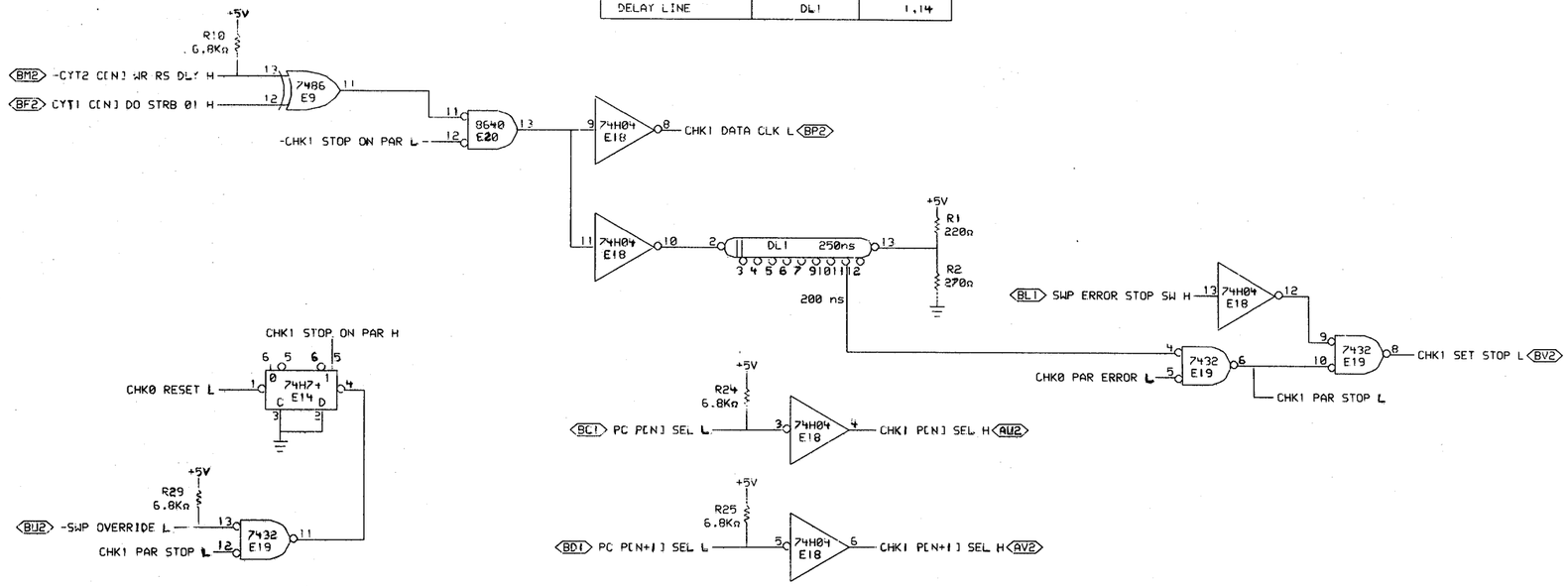
TITLE: PARITY CHECK

SIZE	CODE	NUMBER	REV.
D	CS	M8588-0-CHK0	A

1

NOTE: UNLESS OTHERWISE SPECIFIED THE FOLLOWING PINS APPLY.

PACKAGE TYPE	LOC	GND
DELAY LINE	DL1	1,14



2 OF 3

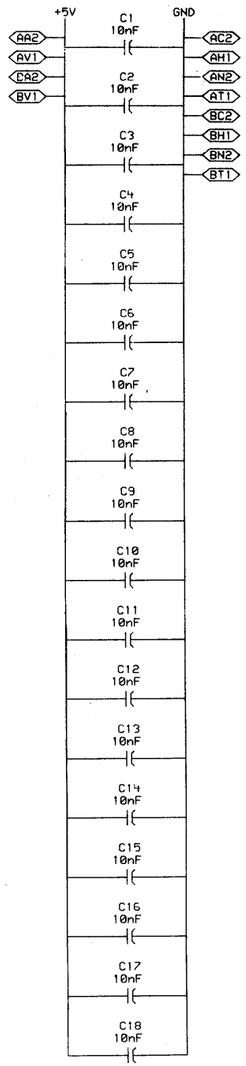
REVISIONS		
CHK	CHANGE NO.	REV

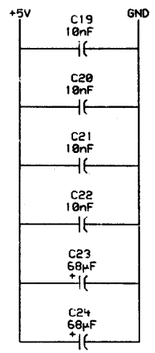
digital

DRN. W. Hanking 11/31/75
CHK'D [illegible]
ENG D.J.Chin 1-31-75
BOARD LOCATION:
SHEET 1 OF 1
CHK1[4,260] 24-JAN-75 14:41
NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MG10 B-DD-M8588-0

TITLE: PARITY CHECK

SIZE	CODE	NUMBER	REV.
D	CS	M8588-0-CHK1	





THE FOLLOWING ARE CONNECTOR PINS WHICH ARE NOT CONNECTED TO ETCH ON THIS MODULE:

AB2	BB2	
AU1	BR1	
	BU1	

3 OF 3

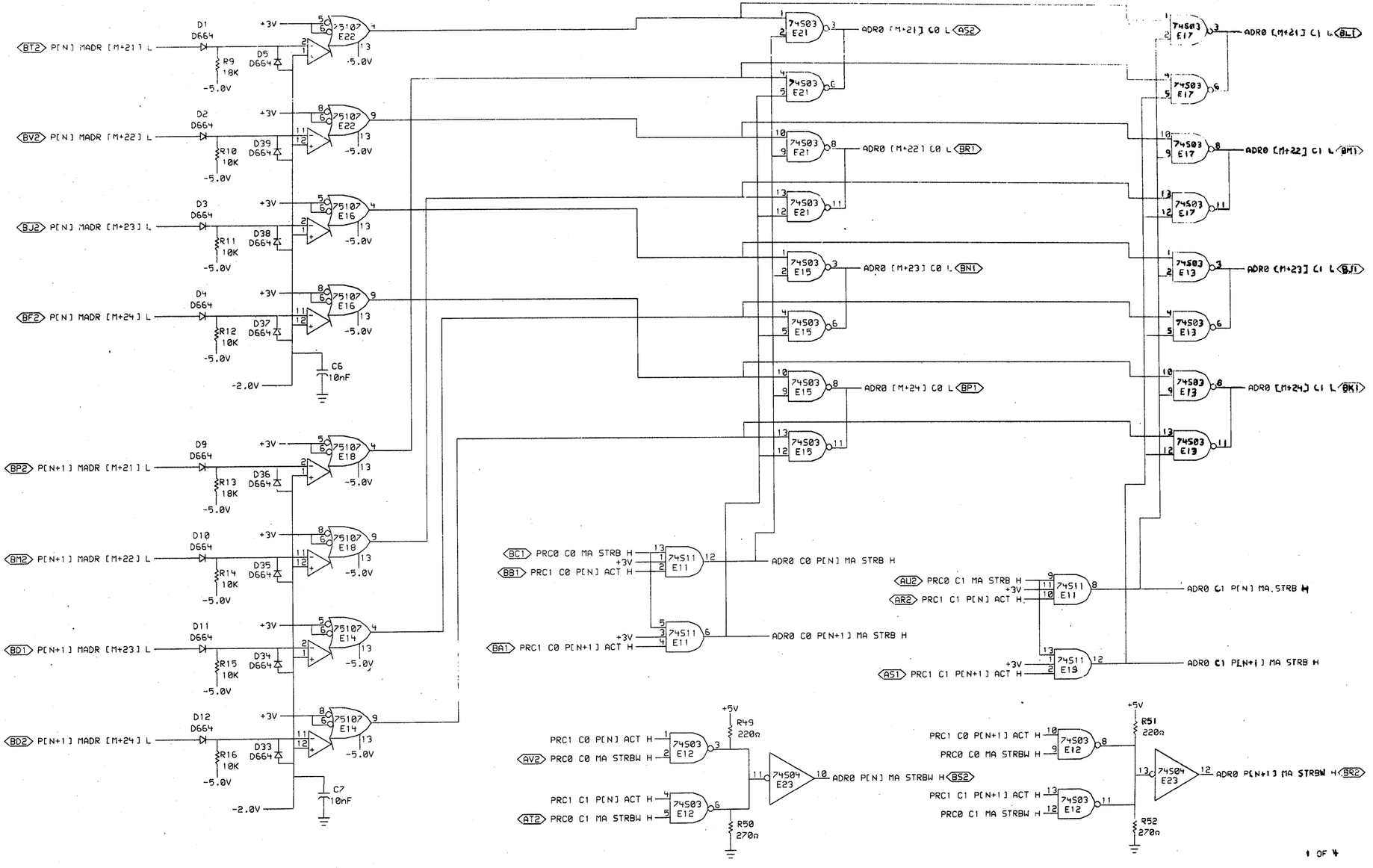
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN W. Hamlin DATE 1/31/75
CHK D. [illegible] DATE 1-31-75
ENG. [illegible] DATE 1-31-75
BOARD LOCATION:
SHEET 1 OF 1
NEXT H.GHER ASSEMBLY: B-DD-M8588-0
CHK2(4,260) 24-JAN-75 14:53
FIRST USED ON OPTION/MODEL: MG10

TITLE: PARITY CHECK

SIZE	CODE	NUMBER	REV.
D	CS	M8588-0-CHK2	



1 OF 4

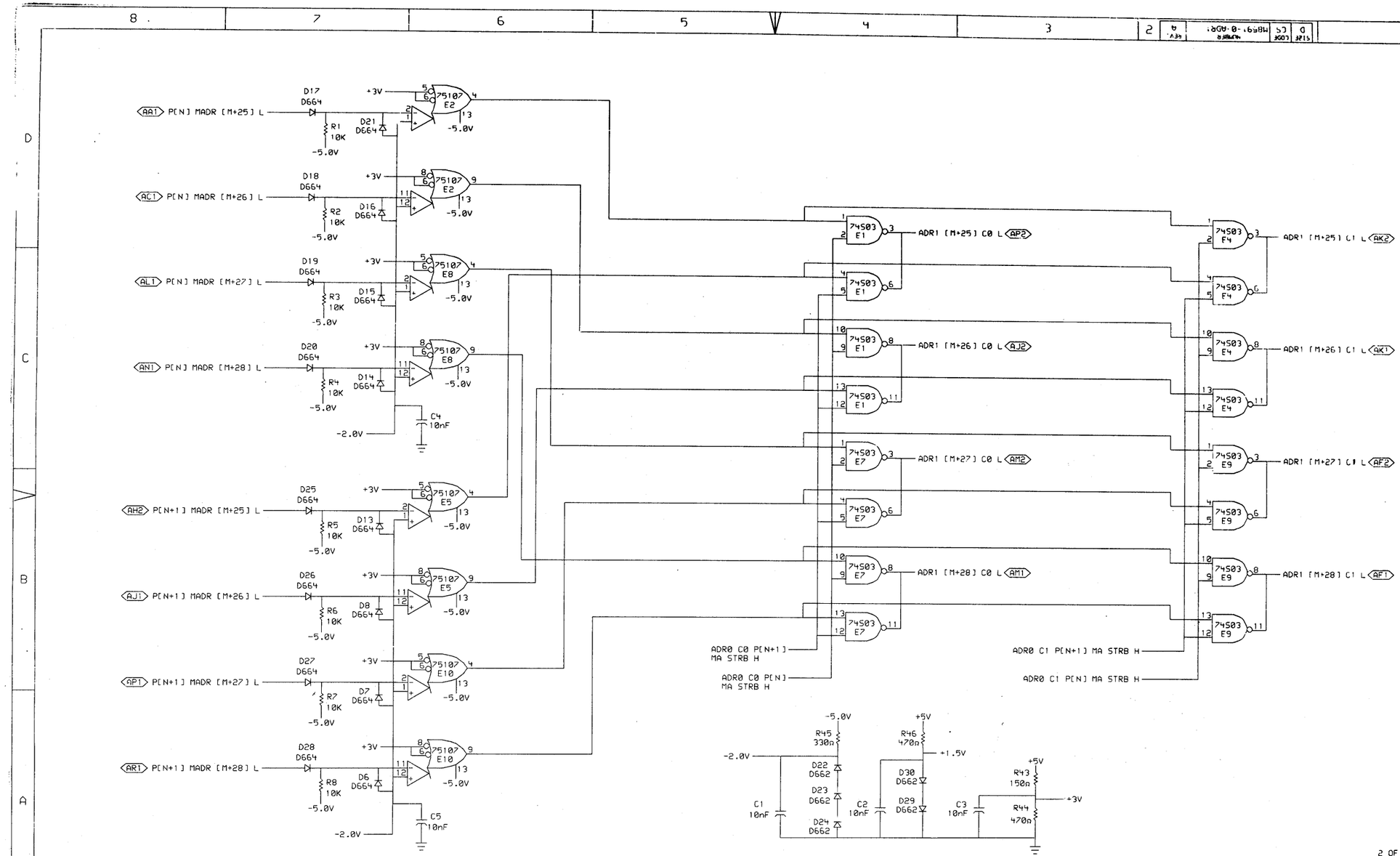
REVISIONS		
CHK	CHANGE NO.	REV
E.R.	MB591-00001	A
E.Reynolds 5-16-75		
D.CHIN		
D.J. Chin 5-16-75		

digital

DRN: W. Hamlin	DATE 3/1/75	ENG.	DATE
CHK'D: W. Hamlin	DATE 3/1/75	BOARD LOCATION:	
ADR0[4:260]	19-MAR-75 11:51	SHEET 1 OF 1	
FIRST USED ON OPTION/MODEL: MG10		NEXT HIGHER ASSEMBLY: B-DD-M8591-0	

TITLE: ADDRESS RECEIVER

SIZE	CODE	NUMBER	REV.
D	CS	M8591-0-ADR0	A



2 OF 4

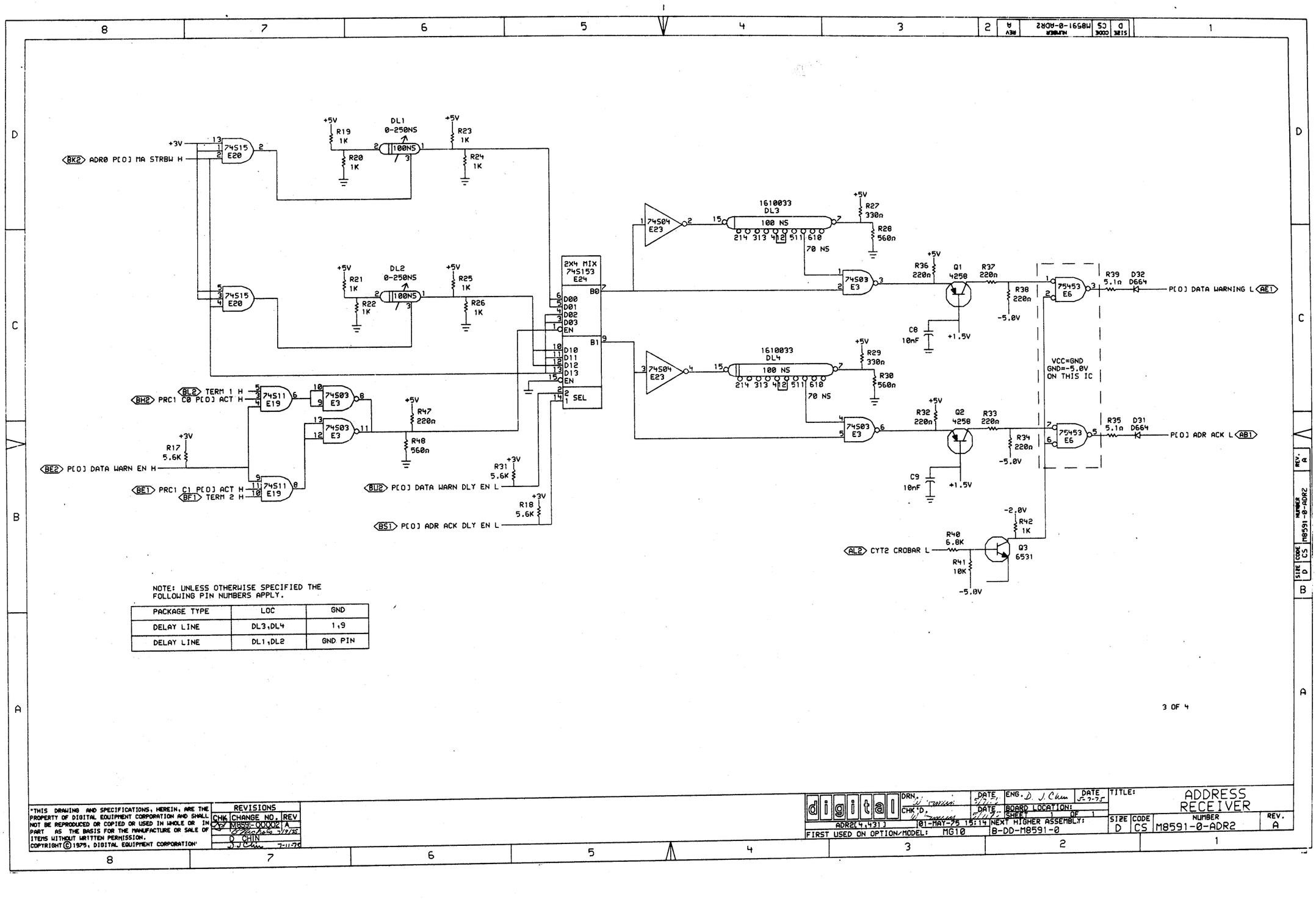
REVISIONS		
CHK	CHANGE NO.	REV
EC M8591-00001		A
E. Remmers 5-16-75		
D. CHIN		
D. J. Chin 5-16-75		

digital

DRN. W. Hamelin DATE 3/11/75 ENG. D. J. Chin DATE 3-14-75
CHK'D. W. Hamelin DATE 3/14/75 BOARD LOCATION:
SHEET 1 OF 1
ADR1[4,260] 19-MAR-75 11:51 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MG10 . B-DD-M8591-0

TITLE: ADDRESS RECEIVER

SIZE	CODE	NUMBER	REV.
D	CS	M8591-0-ADR1	A



NOTE: UNLESS OTHERWISE SPECIFIED THE FOLLOWING PIN NUMBERS APPLY.

PACKAGE TYPE	LOC	GND
DELAY LINE	DL3,DL4	1,9
DELAY LINE	DL1,DL2	GND PIN

3 OF 4

REVISIONS

CHK	CHANGE NO.	REV
	M8591-00002	A
D CHIN		
D J Chin 7-11-75		

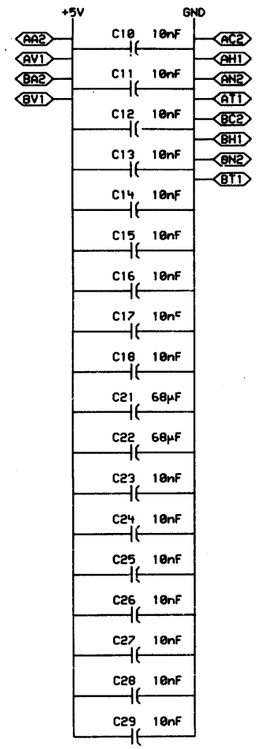
digital

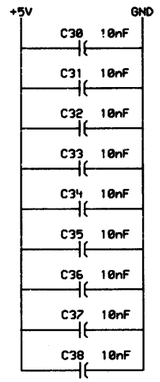
DRN. J. Tarsisi
CHK'D. W. Tarsisi
ADR2[4,431] 01-MAY-75 15:14
FIRST USED ON OPTION/MODEL: MG10

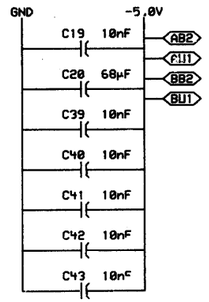
DATE 5-7-75
ENG. D. J. Chin DATE 5-7-75
DATE
BOARD LOCATION:
SHEET 1 OF 1
NEXT HIGHER ASSEMBLY: B-DD-M8591-0

TITLE: ADDRESS RECEIVER

SIZE	CODE	NUMBER	REV.
D	CS	M8591-0-ADR2	A







4 OF 4

REVISIONS

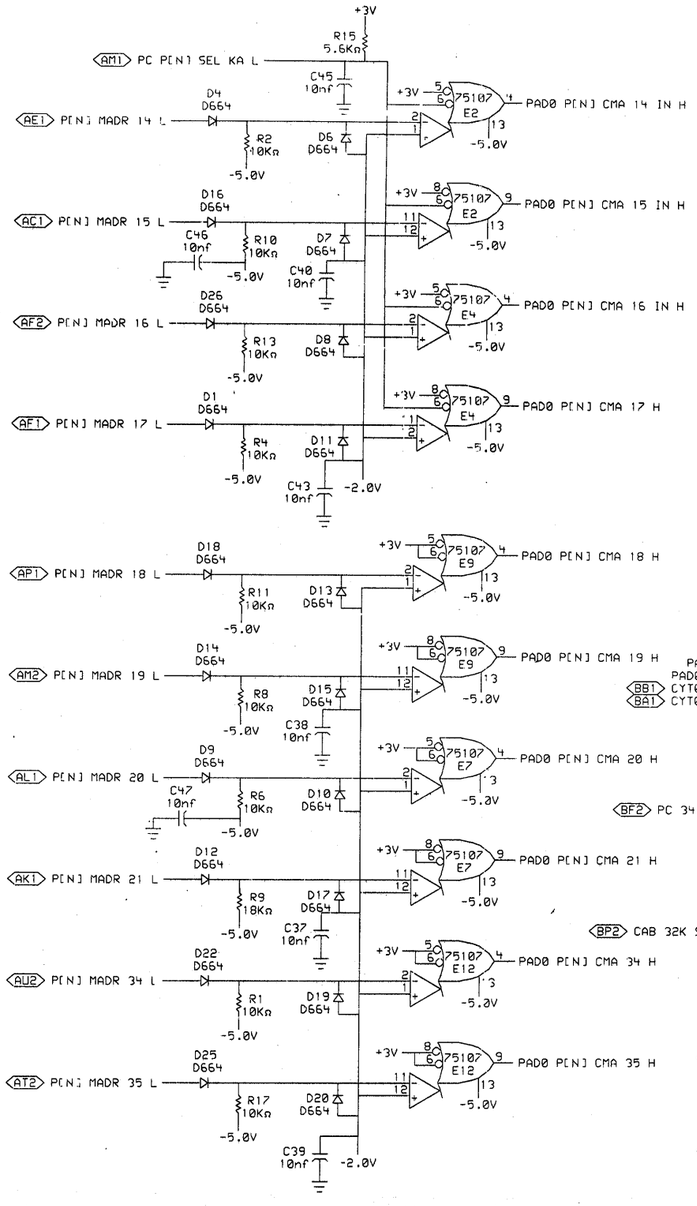
CHK	CHANGE NO.	REV

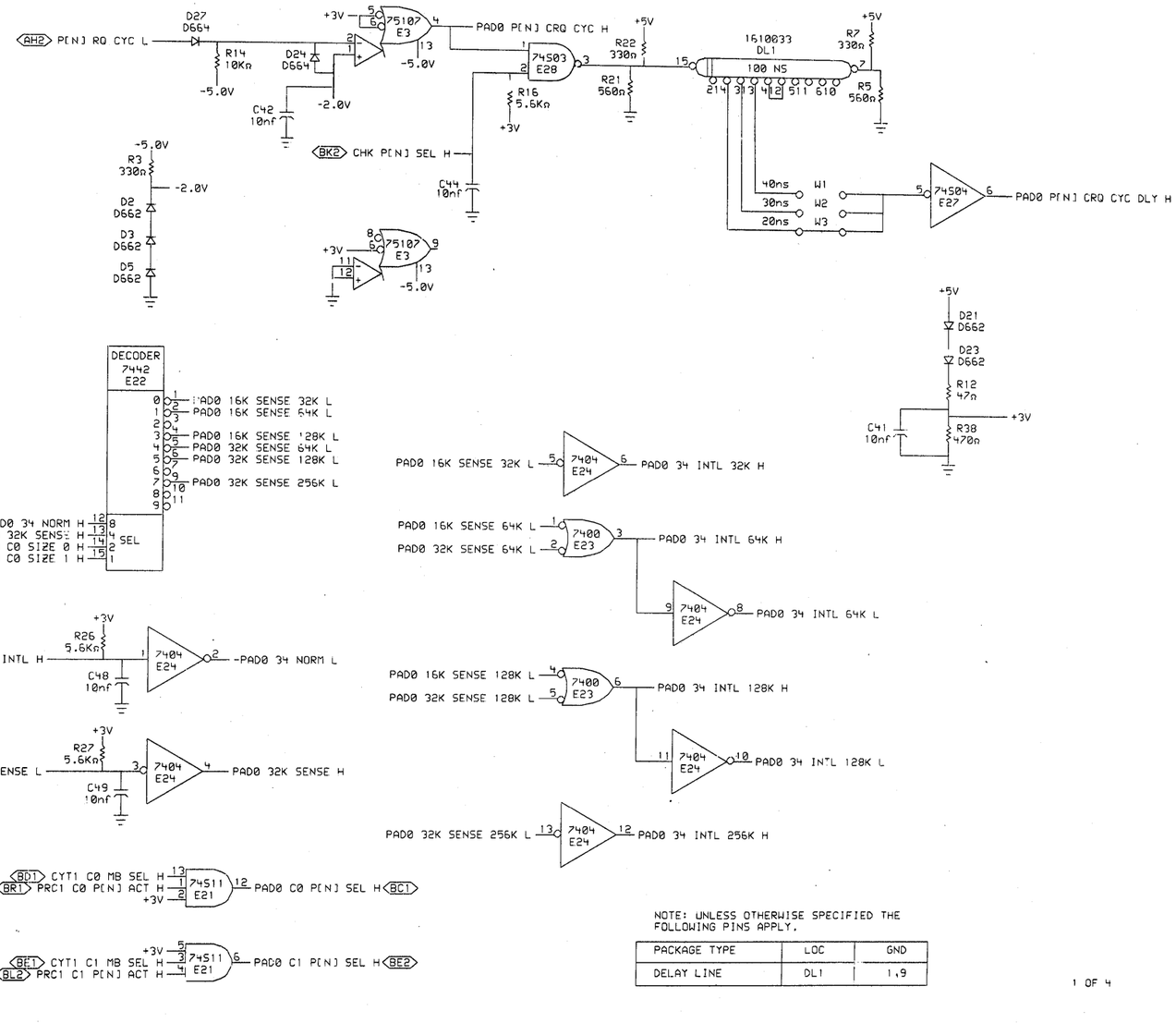
digital

DRN. DATE
CHK'D. DATE
ENG. DATE
BOARD LOCATION:
SHEET 1 OF 1
ADR3(4,268) 21-NOV-74 09:37
NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MG10 A-DD-M8591-0

TITLE: M8591
POWER AND GND

SIZE	CODE	NUMBER	REV.
D	CS	M8591-0-ADR3	





NOTE: UNLESS OTHERWISE SPECIFIED THE FOLLOWING PINS APPLY.

PACKAGE TYPE	LOC	GND
DELAY LINE	DL1	1,9

1 OF 4

REVISIONS

CHK	CHANGE NO.	REV
D. CHIN	M8592-00001	A

D. CHIN 5-26-75
D.J. Allen 5-16-75

digital

DRN.	DATE	ENG.	DATE	TITLE: MG10 PORT ADDRESS
CHK'D.	DATE	BOARD LOCATION: SHEET 1 OF 1		

PAD0[4,262] 19-MAR-75 11:45
FIRST USED ON OPTION/MODEL: MG10
NEXT HIGHER ASSEMBLY: 8-DD-M8592-0

SIZE	CODE	NUMBER	REV.
D	CS	M8592-0-PAD0	A

PAD0 P[N] CMA 17 H
-PAD0 32K SENSE 256K H
PAD0 34 INTL 256K H
PAD0 P[N] CMA 34 H
74S00 E18
74S00 E18
74S00 F19
PAD1 P[N] CMA 17 IN H

PAD0 P[N] CMA 18 H
-PAD0 34 INTL 128K H
PAD0 34 INTL 128K H
PAD0 P[N] CMA 34 H
74S00 E18
74S00 E14
PAD1 P[N] CMA 18 IN H

PAD0 P[N] CMA 19 H
-PAD0 34 INTL 64K H
PAD0 34 INTL 64K H
PAD0 P[N] CMA 34 H
74S00 E14
74S00 E17
74S00 E14
PAD1 P[N] CMA 19 IN H

PAD0 P[N] CMA 20 H
-PAD0 16K SENSE 32K H
PAD0 P[N] CMA 34 H
PAD0 34 INTL 32K H
74S00 E17
74S00 E17
PAD1 P[N] CMA 20 IN H

PAD0 34 NORM H
PAD0 P[N] CMA 34 H
74S03 E28
+5V
R18 330Ω
R19 470Ω
74S04 E27

PAD0 P[N] CMA 17 H
PAD0 34 INTL 256K H
PAD0 P[N] CMA 18 H
PAD0 34 INTL 128K H
PAD0 P[N] CMA 19 H
PAD0 34 INTL 64K H
PAD0 P[N] CMA 20 H
PAD0 34 INTL 32K H
+3V
74S65 E19

2X4 MIX 74S153 E16
74S04 E27
PAD1 C1 P[N] RQ DATA L
PAD1 C1 P[N] RQ DATA H
PAD0 P[N] CMA 21 H
PAD0 P[N] CMA 35 H
PAD0 P[N] CMA 20 H
PAD0 P[N] CMA 35 H
D00 D01 D02 D03 EN
PAD0 P[N] CMA 35 H
PAD0 P[N] CMA 21 H
PAD0 P[N] CMA 35 H
PAD0 P[N] CMA 20 H
D10 D11 D12 D13 EN
PAD0 32K SENSE H
PC 35 INTL H
B0 B1 SEL
C50 10nF
R28 5.6K
+3V

COMPARE 74S85 E6
GND
IN A>B OUT
IN A=B OUT
IN A<B OUT
PAD0 P[N] CMA 14 IN H
PAD0 P[N] CMA 15 IN H
PAD0 P[N] CMA 16 IN H
PAD1 P[N] CMA 17 IN H
A0 A1 A2 A3
B0 B1 B2 B3
PC P[N] SEL KA L
<AD1> PRC2 14 UP BND L
<AD2> PRC2 15 UP BND L
<AA1> PRC2 16 UP BND L
<AB1> PRC2 17 UP BND L
7400 E1

COMPARE 74S85 E9
+3V
GND
PAD0 P[N] CMA 14 IN H
PAD0 P[N] CMA 15 IN H
PAD0 P[N] CMA 16 IN H
PAD1 P[N] CMA 17 IN H
<AL2> PC LWR BND 14 H
<AJ2> PC LWR BND 15 H
<AJ1> PC LWR BND 16 H
<AK2> PC LWR BND 17 H
C51 10nF
C52 10nF
C53 10nF
C54 10nF

COMPARE 74S85 E13
PAD1 P[N] CMA 18 IN H
PAD1 P[N] CMA 19 IN H
PAD1 P[N] CMA 20 IN H
<AR1> PRC2 19 UP BND H
<AN1> PRC2 19 UP BND H
<AP2> PRC2 20 UP BND H
GND

COMPARE 74S85 E15
+3V
GND
PAD1 P[N] CMA 18 IN H
PAD1 P[N] CMA 19 IN H
PAD1 P[N] CMA 20 IN H
<AR2> PC LWR BND 18 H
<AE2> PC LWR BND 19 H
<AS1> PC LWR BND 20 H
C56 10nF
C55 10nF
C57 10nF

74S03 E25
<BK1> PAD1 34 C0 L
<BL1> PAD1 35 C0 L
<BH2> PAD1 34 C1 L
<BF1> PAD1 35 C1 L

<BM2> PRC0 C0 MA STRB H
PRC1 C0 P[N] ACT H
<BJ2> PRC0 C1 MA STRB H
PRC1 C1 P[N] ACT H
R25 5.6K
R24 5.6K
74S11 E26

+5V
R20 220Ω
R23 680Ω
PAD0 P[N] CRQ CYC DLY H
PAD0 P[N] CRQ CYC H
74S15 E20
PAD1 P[N] RQ H
<BD2> CYT0 C0 AW RQ H

-PAD1 C1 P[N] RQ DATA H
74S74 E30
PAD1 C0 P[N] RQ L <JU2>
PAD1 C0 P[N] RQ H <BT2>
<BV2> CYT1 C0 STATE CLR L

PAD0 P[N] CRQ CYC DLY H
PAD0 P[N] CRQ CYC H
74S15 E11
+5V
R29 220Ω
R30 680Ω
<AS2> CYT0 C1 AW RQ H
PAD1 C1 P[N] RQ DATA H
PAD1 C1 P[N] RQ L <BN1>
PAD1 C1 P[N] RQ H <BP1>
<BR2> CYT1 C1 STATE CLR L

2 OF 4

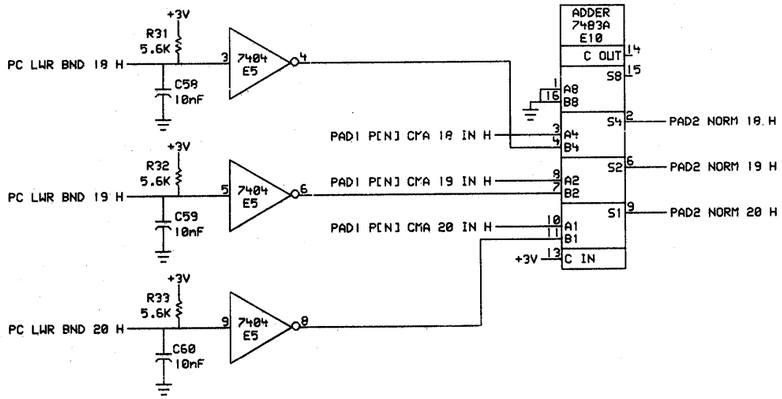
REVISIONS		
CHK	CHANGE NO.	REV

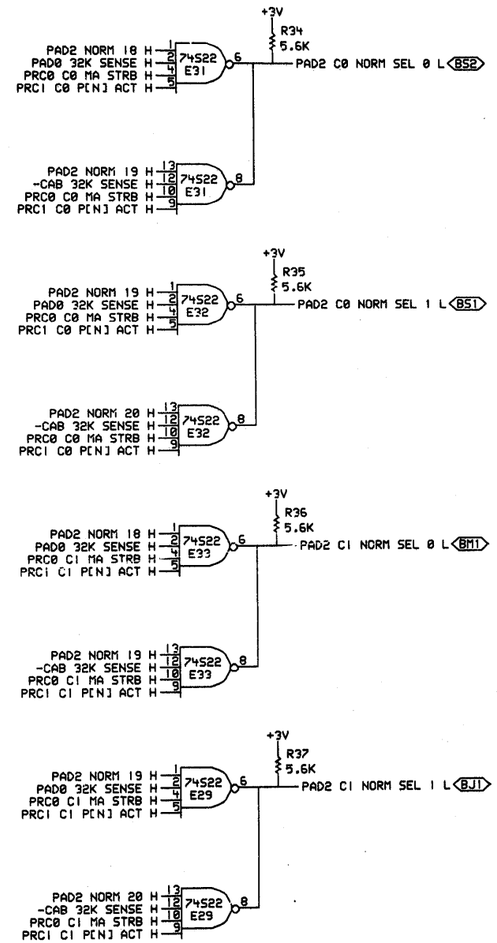
digital

DRN | DATE | ENG. | DATE
CHK'D. | DATE | BOARD LOCATION:
SHEET 1 OF 1
PAD1[4,260] 02-DEC-74 14:02 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MG10 B-DD-M8592-0

TITLE: MG10 PORT ADDRESS

SIZE	CODE	NUMBER	REV.
D	CS	M8592-0-PAD1	





3 OF 4

REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. | DATE 12/4/74 | ENG. | DATE 12/4/74 | CHK'D. | DATE 12/4/74

PAD2[4,260] 02-DEC-74 14:04

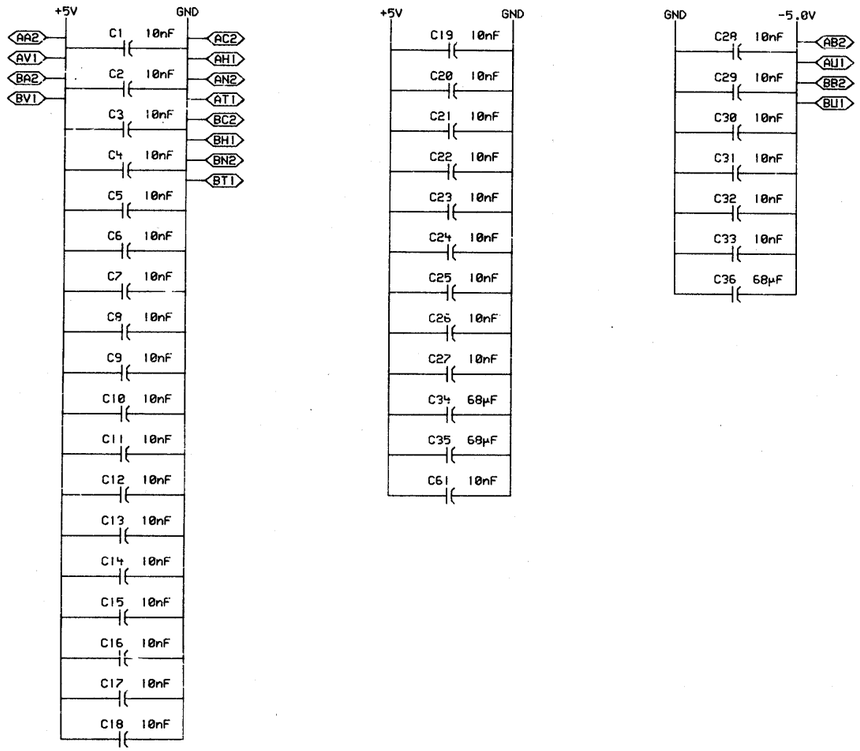
FIRST USED ON OPTION/MODEL: MG10

BOARD LOCATION: SHEET 1 OF 1

NEXT HIGHER ASSEMBLY: B-DD-M8592-0

TITLE: MG10 PORT ADDRESS

SIZE	CODE	NUMBER	REV.
D	CS	M8592-0-PAD2	



4 OF 4

REVISIONS		
CHK	CHANGE NO.	REV

digital

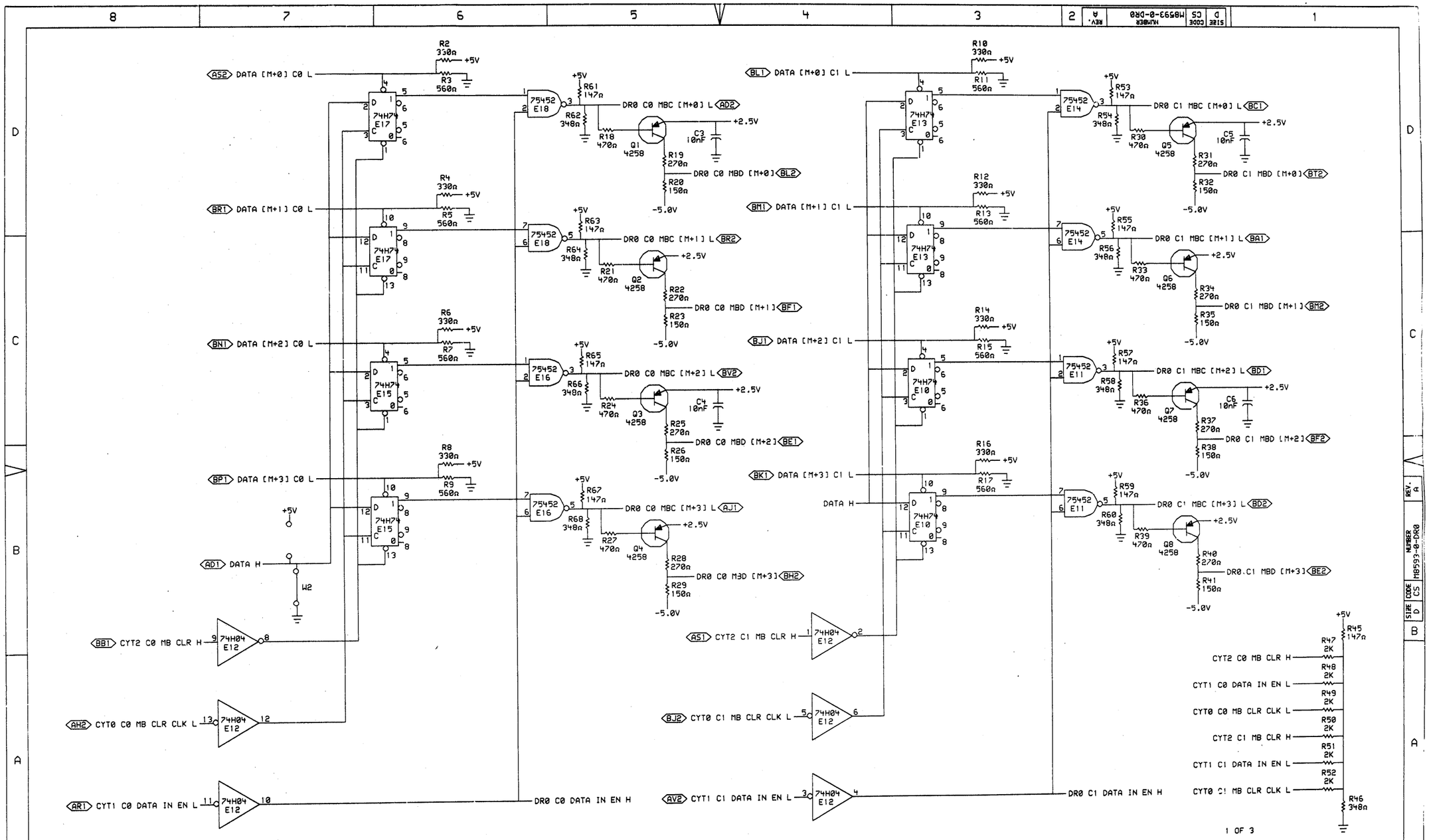
DRN. | DATE 2/14/74 | ENG. | DATE 2/14/74 | TITLE: MG10 PORT ADDRESS

CHK'D. | DATE | BOARD LOCATION:

PAD3[4,260] | 02-DEC-74 14:04 | SHEET 1 OF 1 | NEXT HIGHER ASSEMBLY:

FIRST USED ON OPTION/MODEL: MG10 | B-DD-M8592-0

SIZE	CODE	NUMBER	REV.
D	CS	M8592-0-PAD3	



REVISIONS		
CHK	CHANGE NO.	REV
	M8593-00001	A
D. CHIN		

digital

DRN Warren Gaulin 3/10/75 | ENG Pat Sullivan 3/10/75 | CHK D. Chin 3/10/75

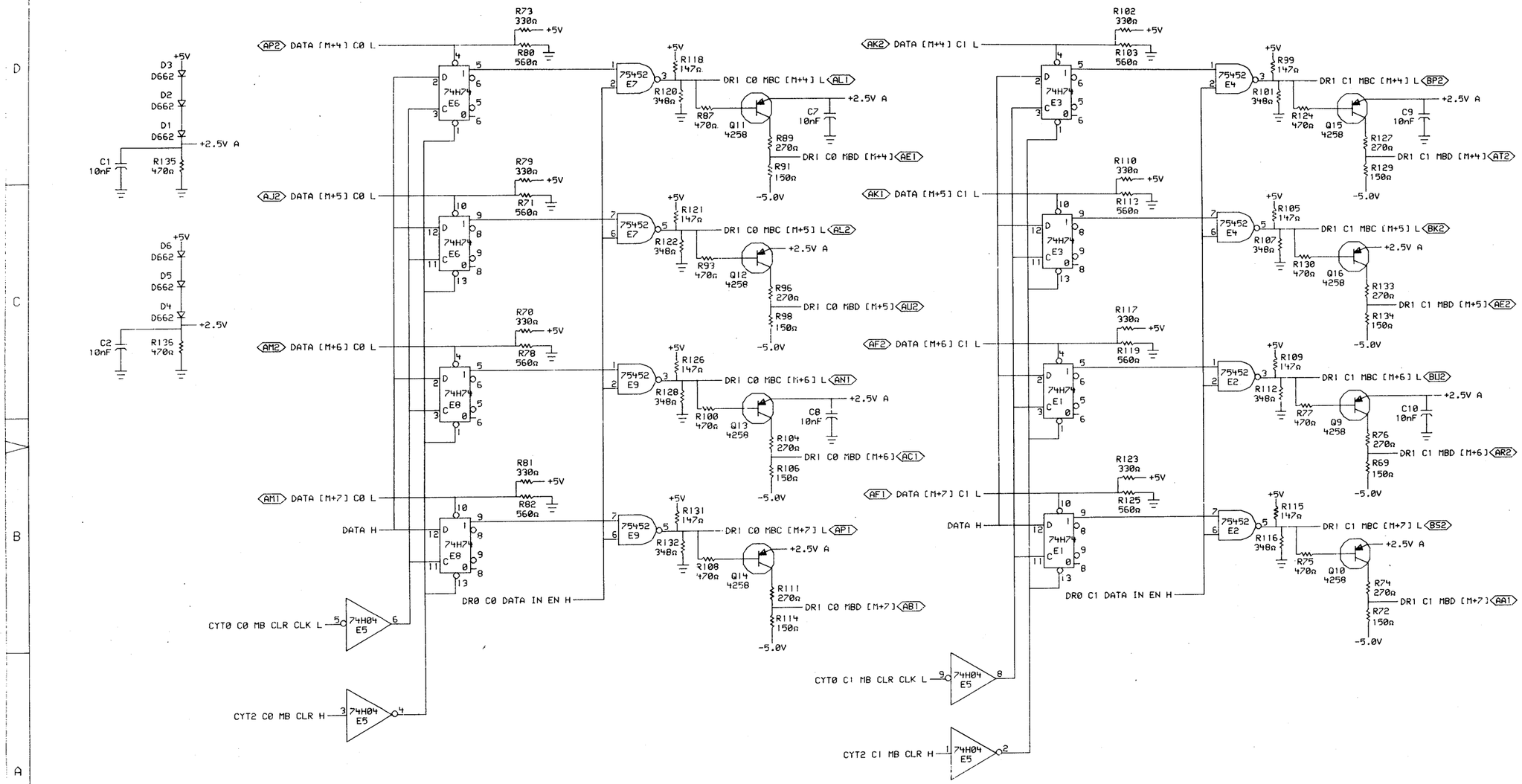
DR0[4,260] 10-MAR-75 09:20 | BOARD LOCATION: | SHEET 1 OF 1

FIRST USED ON OPTION/MODEL: MG10 | NEXT HIGHER ASSEMBLY: B-DD-M8593-0

TITLE: MG10 DATA REGISTER

SIZE	CODE	NUMBER	REV.
D	CS	M8593-0-DR0	A

REV. A | NUMBER M8593-0-DR0 | CODE CS | SIZE D

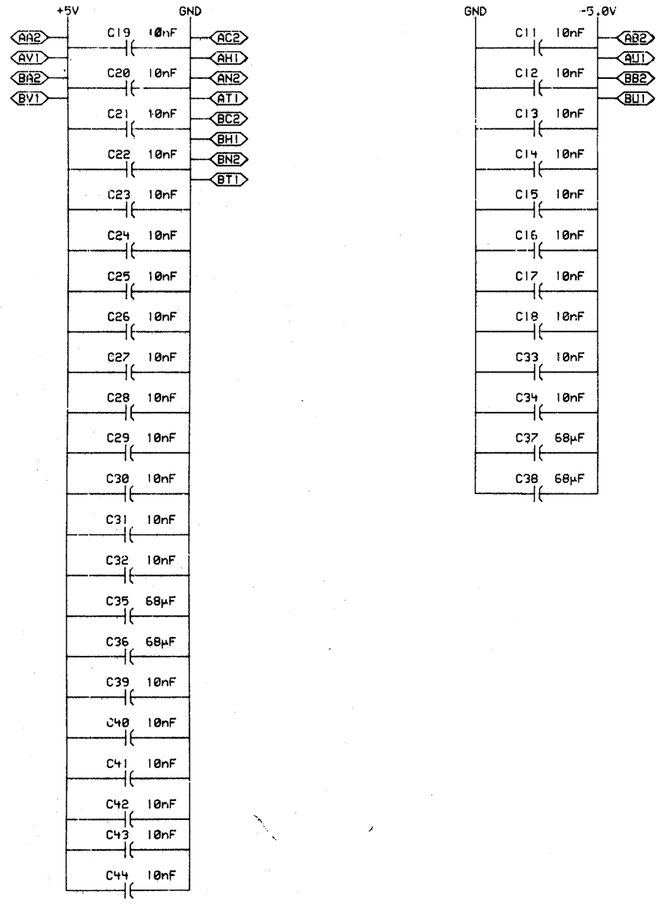


REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. | DATE | ENG. | DATE | TITLE: MG10 DATA REGISTER
CHK'D. | DATE | BOARD LOCATION: | SHEET 1 OF 1
DR1[4,260] | 02-DEC-74 10:58 | NEXT HIGHER ASSEMBLY: B-DD-M8593-0
FIRST USED ON OPTION/MODEL: MG10

SIZE	CODE	NUMBER	REV.
D	CS	M8593-0-DR1	



3 OF 3

REVISIONS

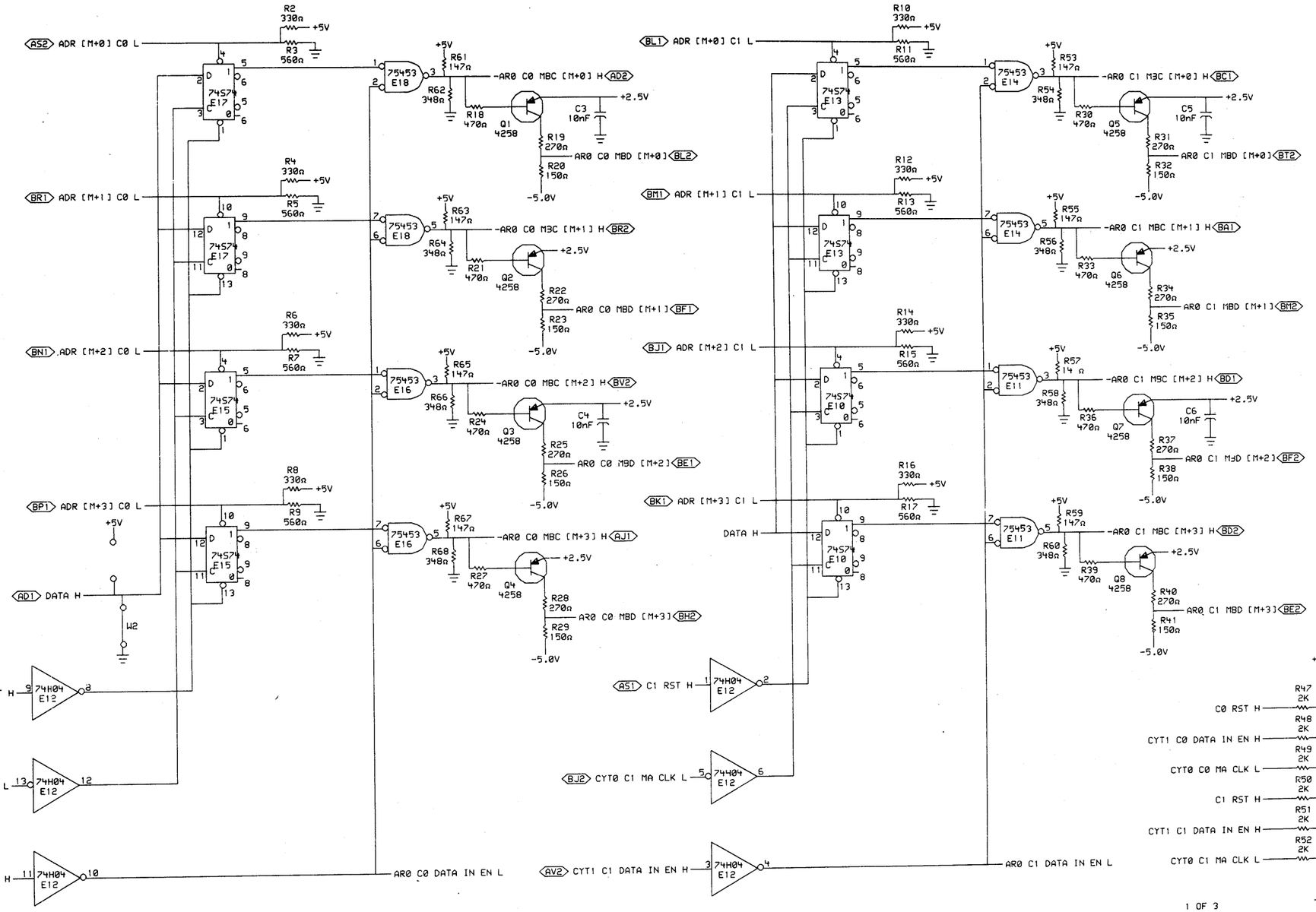
CHK	CHANGE NO.	REV

digital

DRN. [illegible] DATE 12/17/74 ENG. [illegible] DATE 12-17-74
CHK'D. [illegible] DATE -/-/- BOARD LOCATION:
SHEET 1 OF 1
DR2[4,260] 02-DEC-74 11:03 NEXT HIGHER ASSEMBLY: B-DD-M8593-0
FIRST USED ON OPTION/MODEL: MG10

TITLE: MG10 DATA REGISTER

SIZE	CODE	NUMBER	REV.
D	CS	M8593-0-DR2	



REVISIONS

CHK	CHANGE NO.	REV
	M8593YA-XXXX	A

digital

DRN James Rankin 3/10/75 | ENG Pat Sullivan 3/10/75 | DATE 6/19/75

CHK [illegible] DATE | BOARD LOCATION:

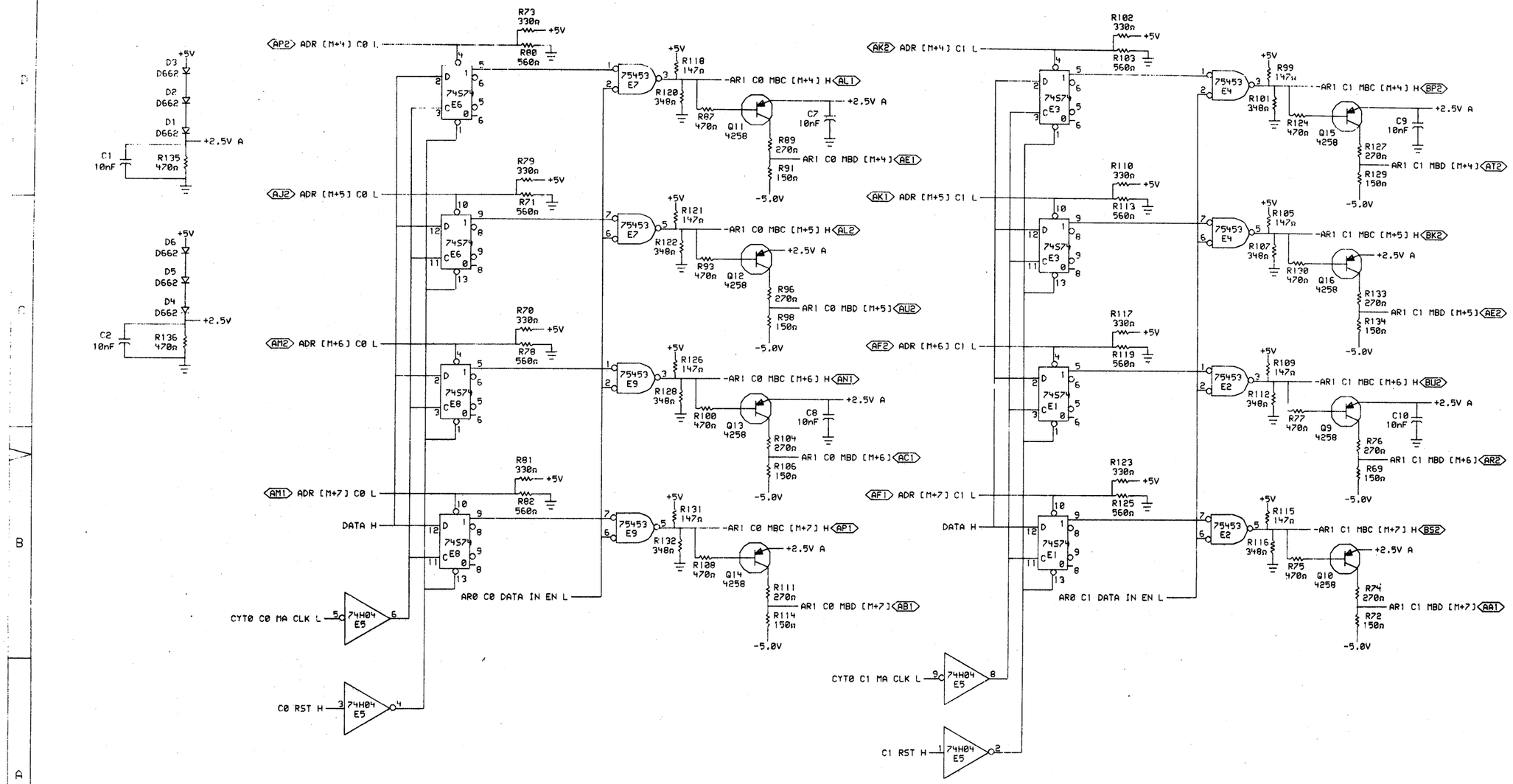
SHEET 1 OF 1

AR0[4,260] 10-MAR-75 09:26 | NEXT HIGHER ASSEMBLY:

FIRST USED ON OPTION/MODEL: MG10 | B-DD-M8593YA-0

TITLE: MG10 ADDRESS REGISTER

SIZE	CODE	NUMBER	REV.
D	CS	M8593-YA-AR0	A



2 OF 3

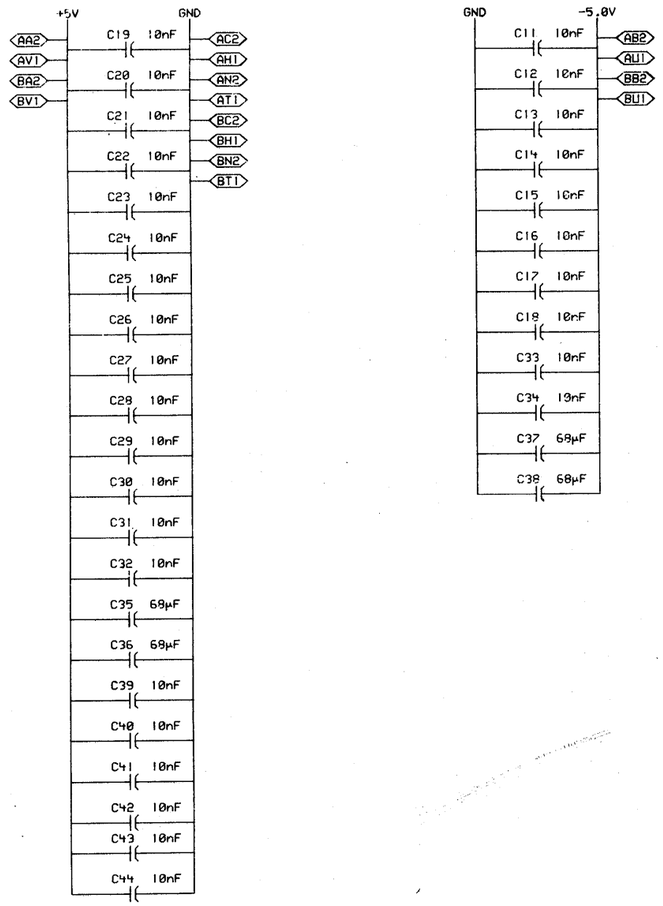
REVISIONS		
CHK	CHANGE NO.	REV

digital

DRN. AR[4,260] DATE 03-DEC-74 10:34 ENG. DATE
CHK'D. DATE BOARD LOCATION: SHEET 1 OF 1
FIRST USED ON OPTION/MODEL: MG10 NEXT HIGHER ASSEMBLY: B-DD-M8593-YA

TITLE: MG10 ADDRESS REGISTER

SIZE	CODE	NUMBER	REV.
D	CS	M8593-YA-AR1	



3 OF 3

REVISIONS		
CHK	CHANGE NO.	REV

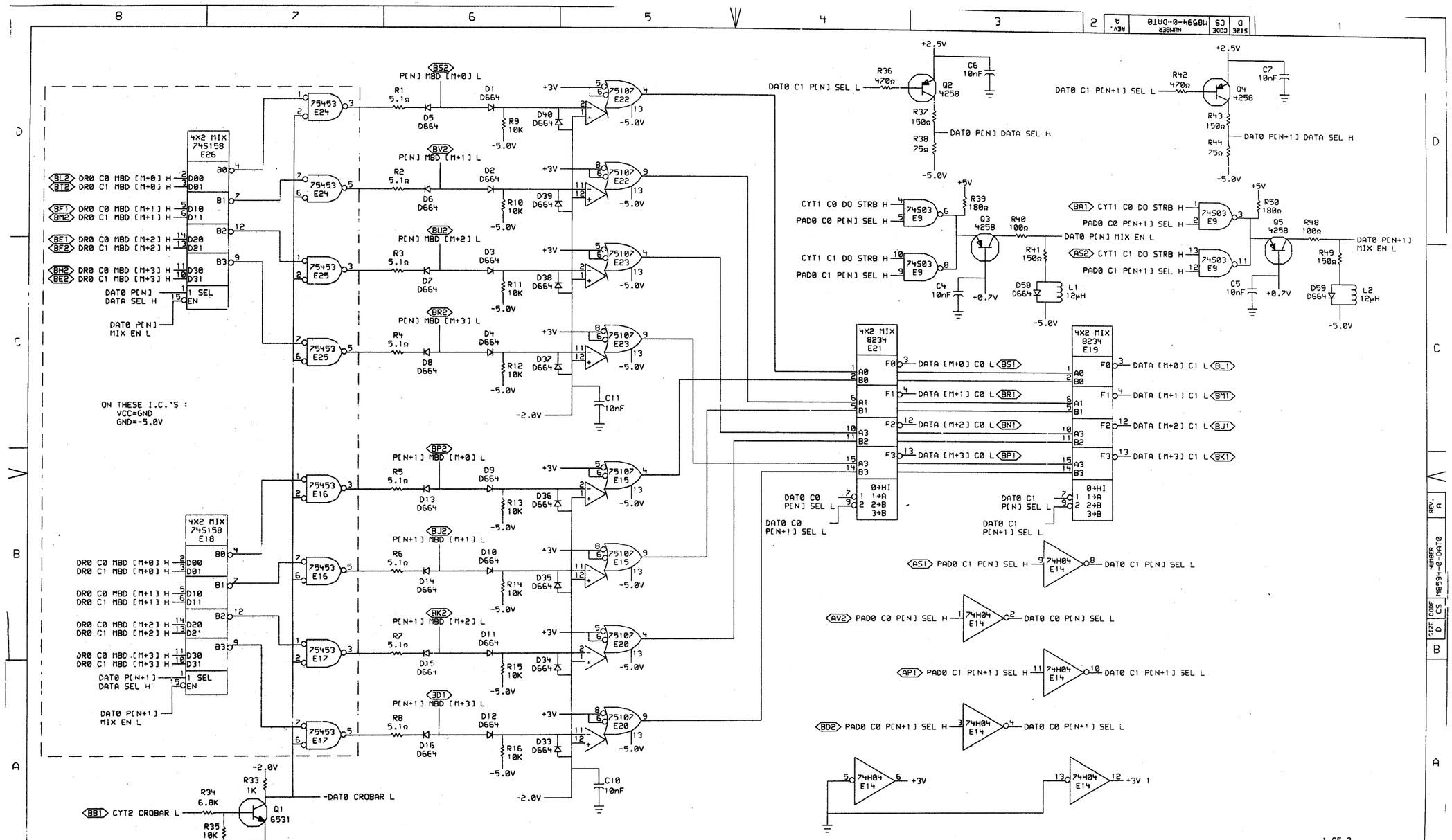
digital

DRN. | DATE 12/31/74 | ENG | DATE 12-18-74
CHK | DATE 2/1/74 | BOARD LOCATION: | SHEET 1 OF 1

AR2[4,260] 03-DEC-74 10:34 | NEXT HIGHER ASSEMBLY: B-DD-M8593-YA
FIRST USED ON OPTION/MODEL: MG10

TITLE: MG10 ADDRESS REGISTER

SIZE	CODE	NUMBER	REV.
D	CS	M8593-YA-AR2	



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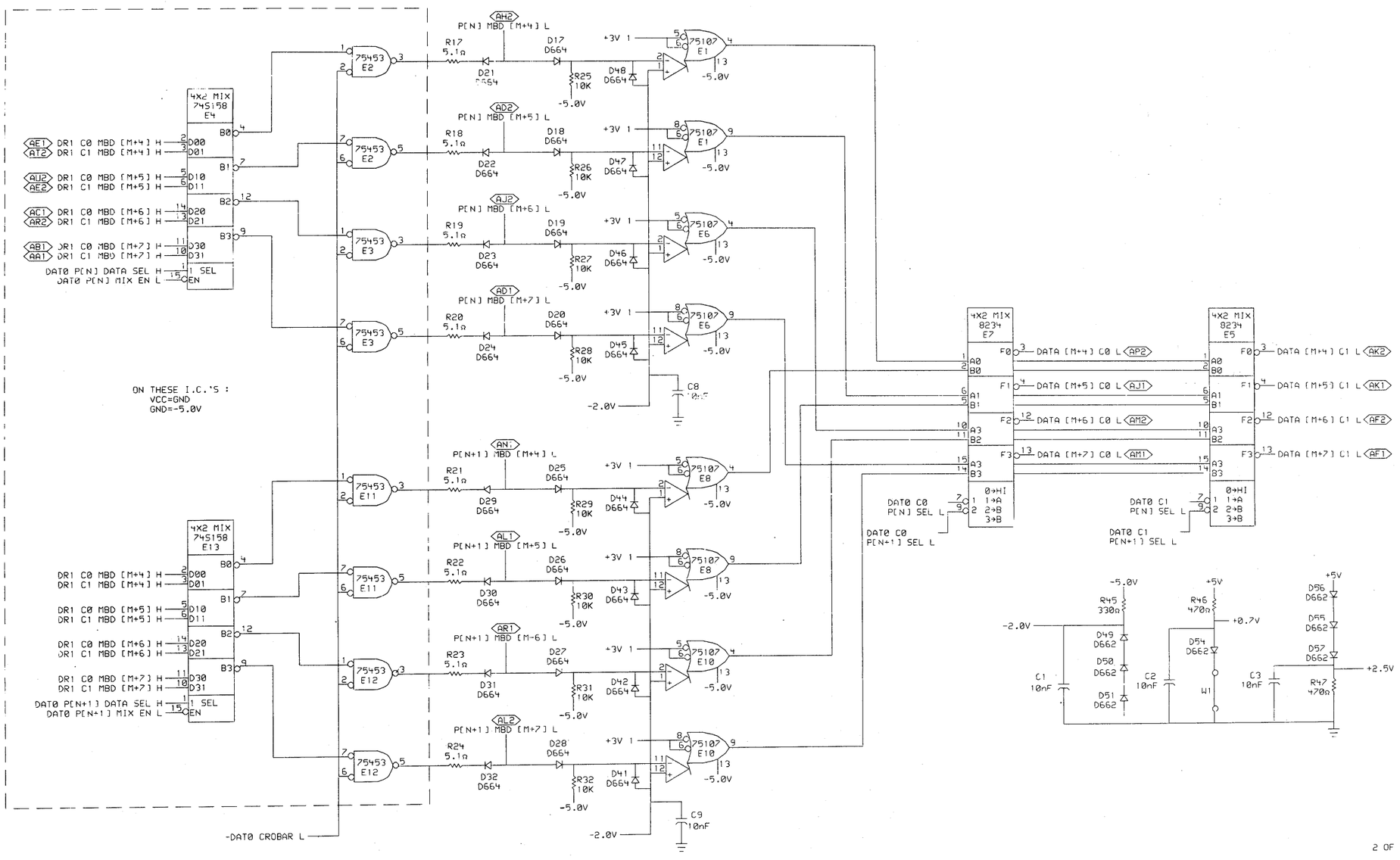
REVISIONS		
CHK	CHANGE NO.	REV
J. Chinn 5-19-75	M8594-00001	A
D. CHIN		
D. J. Chinn 5-16-75		

digital

DRN. W. Hamlin	DATE 3/17/75	ENG. D.J. Chinn	DATE 3-17-75
CHK'D. W. Hamlin	DATE 3/18/75	BOARD LOCATION:	
DAT0[4,260]	19-MAR-75 11:48	SHEET 1 OF 1	
FIRST USED ON OPTION/MODEL: MG10		NEXT HIGHER ASSEMBLY: B-DD-M8594-0	

TITLE: MG10 DATA TRANSCEIVER

SIZE	CODE	NUMBER	REV.
D	CS	M8594-0-DAT0	A



2 OF 3

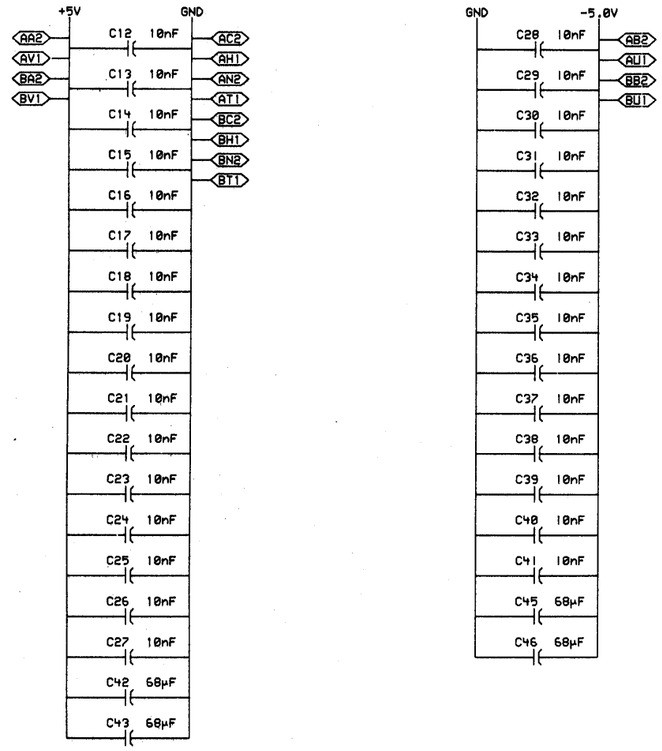
REVISIONS		
CHK	CHANGE NO.	REV
RH	M8594-00001	A
	S. Kazim 5-13-75	
	D.C-HIN	
	DJ Chan 5-16-75	

digital

DRN. W. Hamman DATE 3/14/75 ENG. DATE
CHK'D W. Hamlin DATE 3/14/75 BOARD LOCATION:
SHEET 1 OF 1
DAT[4,260] 19-MAR-75 11:49 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MG10 B-DD-M8594-0

TITLE: MG10 DATA TRANSCEIVER

SIZE	CODE	NUMBER	REV.
D	CS	M8594-0-DAT1	A



3 OF 3

REVISIONS		
CHK	CHANGE NO.	REV

digital

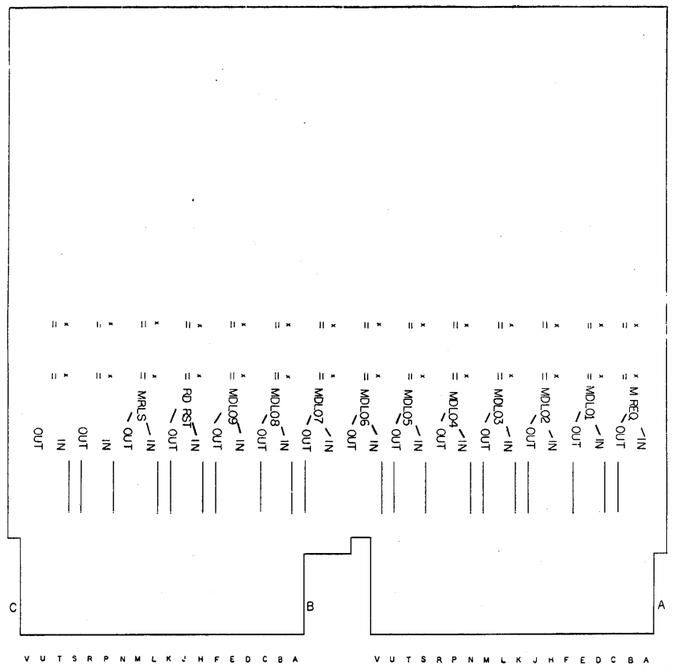
DRN. [illegible] DATE 12/3/74
CHK D. [illegible] DATE [illegible]
ENG. [illegible] DATE 12-13-74
BOARD LOCATION:
SHEET 1 OF 1
DAT2C4,2603 03-DEC-74 10:43
NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: MG10 B-DD-M8594-0

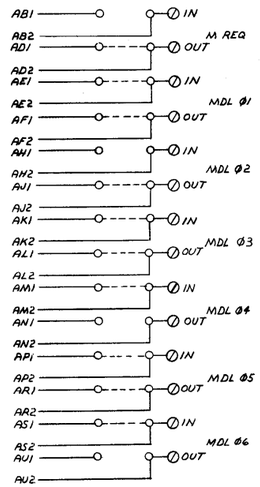
TITLE: MG10 DATA TRANSCEIVER

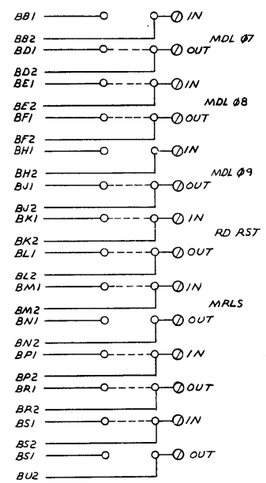
SIZE	CODE	NUMBER	REV.
D	CS	M8594-0-DAT2	

SIZE D | CODE CS | NUMBER M8594-0-DAT2 | REV.

NOTES:







UNLESS OTHERWISE INDICATED
o--o INDICATES JUMPERS
Ⓘ INDICATES SPLIT LUGS

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
2		HANDLE, FLIP CHIP - GREEN	1202258	8
20		JUMPERS	9107560-01	7
28		SPLIT LUGS	9006735	6
.4		EYELETS "GS4-7 E.B. STIMPSON	9006732	5
1		ETCHED CKT. BD.	5008725	4
		ASSY) DRILLING HOLE LAY OUT	D-AH-G728-YA-5	3
		X-Y COORDINATE HOLE LOCATION	K-CO-G728-0-4	2
		MODULE HISTORY	B-MH-G728-YA-6	1

PARTS LIST

FIRST USED ON OPTION MODEL

ETCH BOARD REV. A

IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE		
IC PIN LOCATIONS		

SEMICONDUCTOR CONVERSION CHART

DEC NO.	EIA NO.	DEC NO.	EIA NO.

ORIGINATED G728YA-00001
CHK
REVISIONS: # REV. CHANGE NO.

DRN. D Chaoon DATE 2-28-75
CHK'D. A Gilbert DATE 2-28-75
ENG. D J Clin DATE 3-6-75
PROJ. ENG. D J Clin DATE 3-6-75
PROD. DATE
NEXT HIGHER ASSY
SCALE
SHEET 1 OF 1

digital

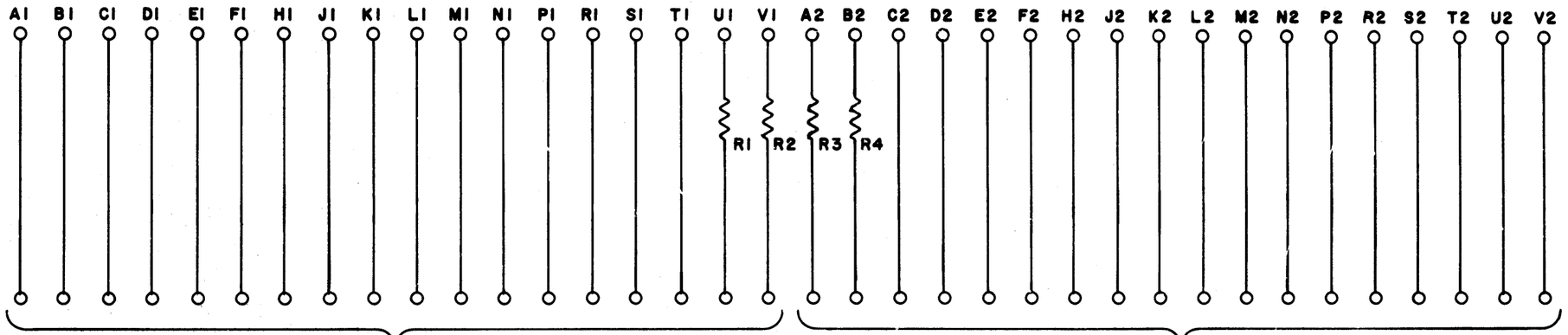
TITLE JUMPER CARD G728YA

SIZE D | CODE CS | NUMBER G728-YA-1 | REV. *

DIST.

DEC FORM NO. 080 139.8

SIZE	CODE	NUMBER	REV.
B	CS	M901-0-1	D



REFERENCE DESIGNATION	DESCRIPTION	PART NO.

PARTS LIST

REVISIONS			
REV.	C	D	
CHG NO.	00001	00002	
CHK			

DRN.	M. Waller	DATE 8-14-68
CHK'D		DATE 8-19-68
ENG.		DATE 11/5/68
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE FLEXPRINT CABLE CONNECTOR M901

SIZE	CODE	NUMBER	REV
B	CS	M901-0-1	D

PRINTED CIRCUIT REV. B C

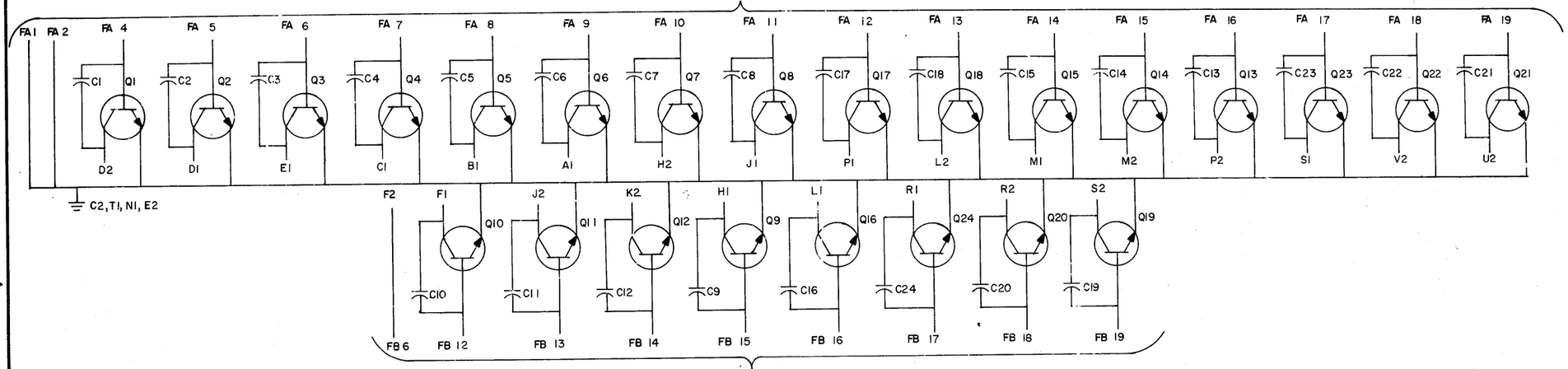
5

DIST. 324 434 435

PINK

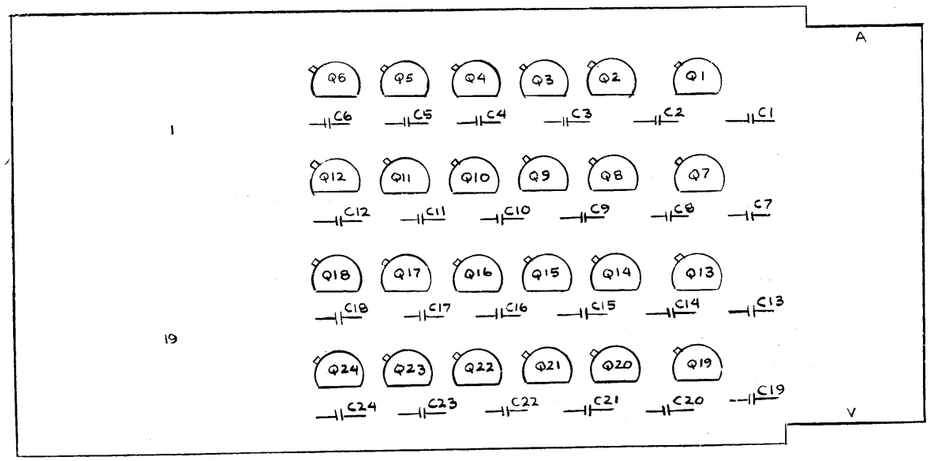
DEC FORM NO.
DRB 102

FA = ETCH SIDE OF M947; COMPONENT SIDE OF M948



FB = COMPONENT SIDE OF M947; ETCH SIDE OF M948

UNLESS OTHERWISE INDICATED:
CAPACITORS ARE 470PF, 100V, ±5%
TRANSISTORS ARE DEC6531B



PARTS LIST

ITEM NO.	DEC PART NO.	DESCRIPTION	QTY
6	1509338	TRANSISTOR DEC 6531B	24
5	1000024	CAP. 470 PF 100V 5%	24
4	5009370	ETCHED CKT. BOARD	1
3	B-NH-M947-0-6	MODULE ECO HISTORY	
2	C-AH-M947-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M947-0-4	X-Y COORDINATE HOLE LOACTION	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC6531B	MPS6531		

REVISIONS			
CHK	CHG NO.	REV.	

DRN. NANCY MOORE DATE 5/18/70
CHK'D DATE 8-24-71
ENG. P Sullivan DATE 8-24-71
PROD. DATE

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE KI-10 INDICATOR DRIVER M947

SIZE	CODE	NUMBER	REV.
C	CS	M947-0-1	B

PRINTED CIRCUIT REV. C

SIZE C | CODE CS | NUMBER M947-0-1 | REV. B

DEC FORM NO. DRC 102

M5794-P2

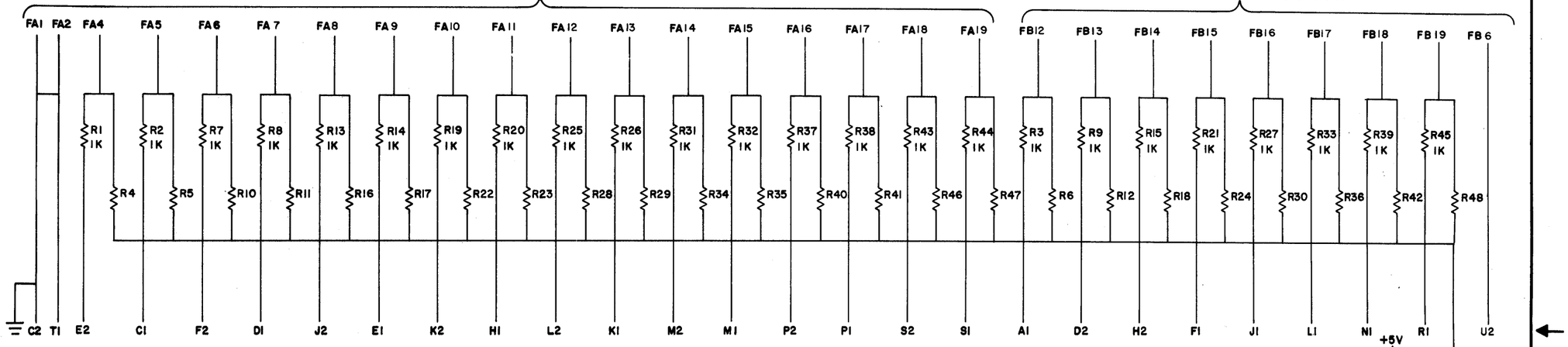
Print - Blue

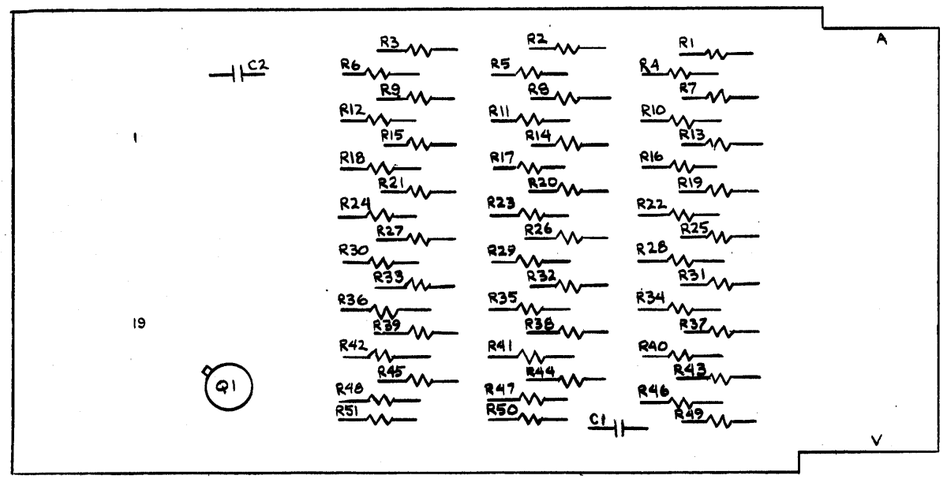
MR

LIMITED RELEASE

FA=COMPONENT SIDE OF M948;
ETCH SIDE OF M947

FB= ETCH SIDE OF M948;
COMPONENT SIDE OF M947





UNLESS OTHERWISE INDICATED:
RESISTORS ARE 3.3K, 1/4W, 5%
CAPACITORS ARE .01 UF, 100V, 20%

ITEM NO.	DEC PART NO.	DESCRIPTION	QTY
10	1503409-00	TRANSISTOR DEC 6534D	1
9	1300439	RES. 3.3K ¼W 5%	26
8	1300365	RES. 1K ¼W 5%	24
7	1300229	RES. 100 ¼W 5%	1
6	1009678	CAP. .047 UF 16V 50 -20%	1
5	1001610	CAP. .01 UF 100V 20% DISC	1
4	5009449	ETCHED CKT. BOARD	1
3	B-MH-M948-0-6	MODULE ECO HISTORY	
2	C-AH-M948-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M948-0-4	X-Y COORDINATE HOLE LOCATION	

PARTS LIST

REVISIONS

CHK	CHG NO.	REV.
MR	5001	B

DRN. S. Cooper	DATE	5/14/70
CHK'D	DATE	8-24-71
ENG. P Sullivan	DATE	9-24-71
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC6534D	MPS6534		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: KI10 INDICATOR BOARD

SIZE	CODE	NUMBER	REV
C	CS	M948-0-1	B

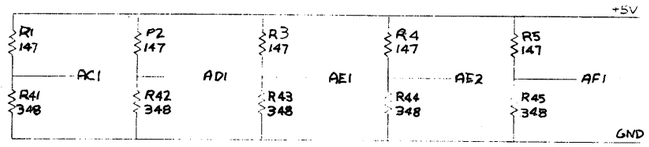
PRINTED CIRCUIT REV. B

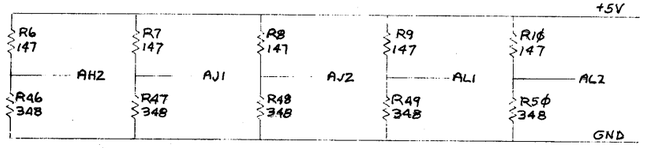
SIZE C CODE CS NUMBER M948-0-1 REV. B

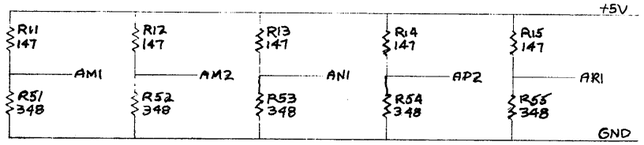
DEC FORM NO. 15705-D2

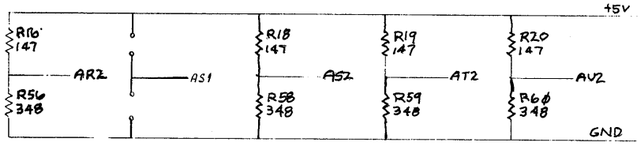
MR Print Blue

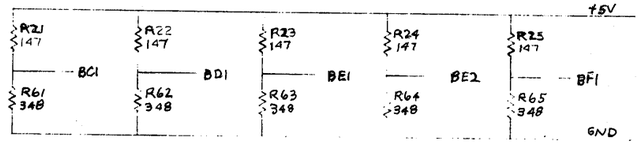
NOTE: ALL RESISTOR VALUES ARE IN OHMS, UNLESS OTHERWISE SPECIFIED.

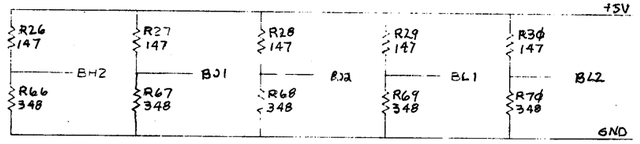


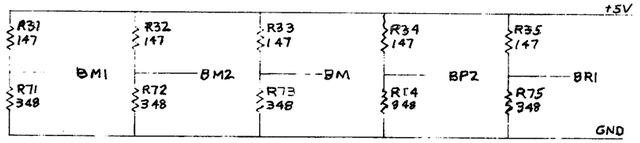


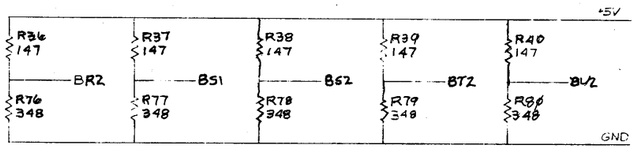


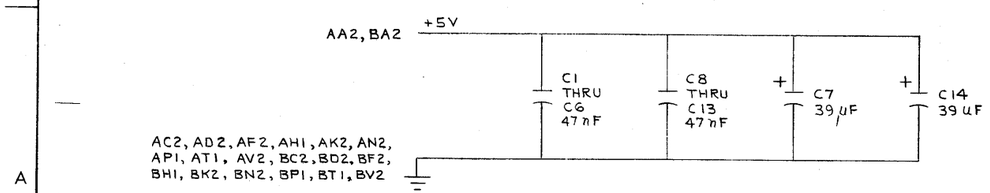












REVISIONS		
CHK	CHANGE NO.	REV.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
MG10		PARTS LIST		

DIMENSIONAL TOLERANCE
DIMENSIONS ARE MILLIMETERS / INCHES
UNLESS OTHERWISE SPECIFIED

MILLIMETERS	INCHES	ANGLES
XXX = ±0,10	.XXX = ±.005	±0° 30'
XX = ±0,5	.XX = ±.02	
X = ±2,	.X = ±.1	

THIRD ANGLE PROJECTION
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓
MATERIAL —
FINISH —

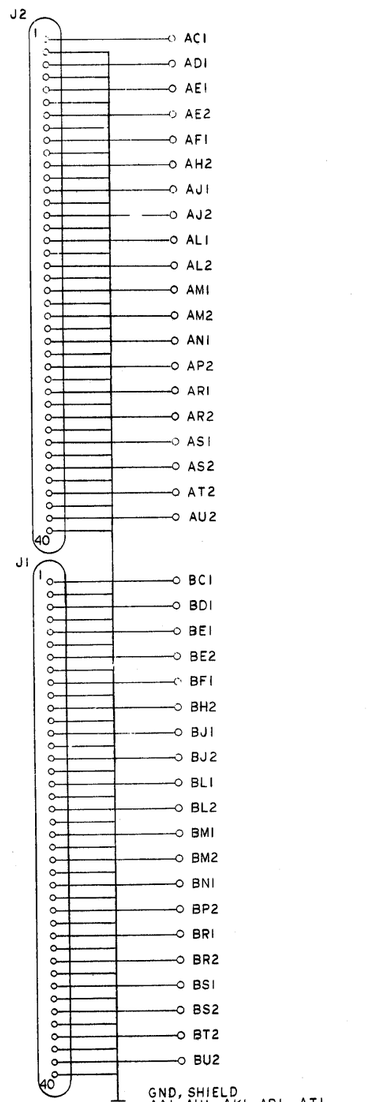
DRN. [signature] DATE 11/7/74
CHK'D. [signature] DATE 11/7/74
ENG. W. Hamblin DATE 11-14-74
PROJ. ENG. [signature] DATE 11-14-74
PROD. [signature] DATE 11/19/74
NEXT HIGHER ASSY. B-DD-M9005-0

digital

TITLE: SBUS TERMINATOR

SIZE	CODE	NUMBER	REV.
D	CS	M9005-0-TRN1	

SCALE NONE
SHEET 1 OF 1
DIST.

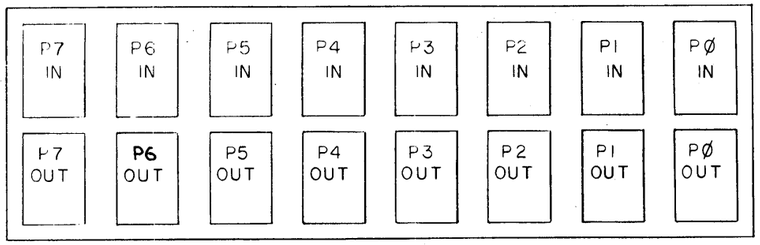


REVISIONS	REV.	CHANGE NO.	CHK.

DEC FORM NO. DRD 102-D

DRN. S. Mierwa	1-31-75	FIRST USED ON MG1Ø
CHK'D	2-5-75	digital
ENG. D J Chin	2-5-75	TITLE
PROJ. ENG. D J Chin	2-5-75	CABLE CONNECTOR
PROD. M. Taylor	2-5-75	
NEXT HIGHER ASSY.		
B-DD-M9Ø11-Ø		SIZE D · CODE CS · NUMBER M9Ø11-Ø-1 · REV.
SCALE —		DIST.
SHEET 1 OF 1		

SIZE	CODE	NUMBER	REV.
D	CS	M9Ø11-Ø-1	



ROW M

FRONT VIEW

ROW N

WIRE LIST
SOCKET REFERENCE

PØØ	41	42	43	44
PØ1	36	37	38	39
PØ2	30	31	32	33
PØ3	25	26	27	28
PØ4	19	20	21	22
PØ5	14	15	16	17
PØ6	8	9	10	11
PØ7	3	4	5	6

ROWS
M,N

MEM BUS SIGNAL *	PRODUCTION CONN PIN +		MEM BUS SIGNAL *	PRODUCTION CONN PIN +	
PN ADR ACK(NT) L	A1	(B1)	PN MBD ØØ L	K1	(L1)
PN RD RS L	A2	(B1)	PN MBD Ø1 L	K2	(L1)
PN WR RS L	B2	(A3)	PN MBD Ø2 L	L2	(K3)
PN MBD PAR L	B3	(A3)	PN MBD Ø3 L	L3	(K3)
PN RQ CYC IMM L	A4	(B4)	PN MBD Ø4 L	K4	(L4)
PN RQ CYC FAST L	A5	(B4)	PN MBD Ø5 L	K5	(L4)
PN RQ CYC SLOW L	B5	(A6)	PN MBD Ø6 L	L5	(K6)
PN MADR 18 (1) L	B6	(A6)	PN MBD Ø7 L	L6	(K6)
PN DATA WARNING L	A7	(B7)	PN MBD Ø8 L	K7	(L7)
PN MADR 19 (1) L	C1	(D1)	PN MBD Ø9 L	M1	(N1)
PN SPARE	C2	(D1)	PN MBD 10 L	M2	(N1)
PN MADR 2Ø (1) L	D2	(C3)	PN MBD 11 L	N2	(M3)
PN MB1 SEQ REQ L	D3	(C3)	PN MBD 12 L	N3	(M3)
PN MADR 14 (1) L	C4	(D4)	PN MBD 13 L	M4	(N4)
PN MADR 15 (1) L	C5	(D4)	PN MBD 14 L	M5	(N4)
PN MADR 16 (1) L	D5	(C6)	PN MBD 15 L	N5	(M6)
PN MADR 17 (1) L	D6	(C6)	PN MBD 16 L	N6	(M6)
PN ADR ACK (T) L	C7	(B7)	PN MBD 17 L	M7	(L7)
PN MADR 22 (1) L	E1	(F1)	PN MBD 18 L	P1	(R1)
PN MADR 23 (1) L	E2	(F1)	PN MBD 19 L	P2	(R1)
PN MADR 24 (1) L	F2	(E3)	PN MBD 2Ø L	R2	(P3)
PN MADR 25 (1) L	F3	(E3)	PN MBD 21 L	R3	(P3)
PN MADR 26 (1) L	E4	(F4)	PN MBD 22 L	P4	(R4)
PN MADR 27 (1) L	E5	(F4)	PN MBD 23 L	P5	(R4)
PN MADR 28 (1) L	F5	(E6)	PN MBD 24 L	R5	(P6)
PN MADR 29 (1) L	F6	(E6)	PN MBD 25 L	R6	(P6)
PN MADR 3Ø (1) L	E7	(F7)	PN MBD 26 L	P7	(R7)
PN MADR 31 (1) L	H1	(J1)	PN MBD 27 L	S1	(T1)
PN MADR 32 (1) L	H2	(J1)	PN MBD 28 L	S2	(T1)
PN MADR 33 (1) L	J2	(H3)	PN MBD 29 L	T2	(S3)
PN MADR 34 (1) L	J3	(H3)	PN MBD 3Ø L	T3	(S3)
PN MADR 35 (1) L	H4	(J4)	PN MBD 31 L	S4	(T4)
PN MADR RD RQ (1) L	H5	(J4)	PN MBD 32 L	S5	(T4)
PN MADR WR RQ (1) L	J5	(H6)	PN MBD 33 L	T5	(S6)
PN IGN PAR PULSE L	J6	(H6)	PN MBD 34 L	T6	(S6)
PN MADR 21 (1) L	H7	(F7)	PN MBD 35 L	S7	(R7)

NOTE: +PINS IN PARENTHESES ARE THE ASSOCIATED QUICKLATCH COAX GROUND PINS.
*THESE SIGNAL Ø AND −3 VOLTS.

1	2	3	4	5	6	7
+ A	+	+	+	+	+	+ A
B +	+	+	+	+	+	B +
+ C	+	+	+	+	+	+ C
D +	+	+	+	+	+	D +
+ E	+	+	+	+	+	+ E
F +	+	+	+	+	+	F +
+ H	+	+	+	+	+	+ H
J +	+	+	+	+	+	J +
+ K	+	+	+	+	+	+ K
L +	+	+	+	+	+	L +
+ M	+	+	+	+	+	+ M
N +	+	+	+	+	+	N +
+ P	+	+	+	+	+	+ P
R +	+	+	+	+	+	R +
+ S	+	+	+	+	+	+ S
T +	+	+	+	+	+	T +

IN

1	2	3	4	5	6	7
+ A	+	+	+	+	+	+ A
B +	+	+	+	+	+	B +
+ C	+	+	+	+	+	+ C
D +	+	+	+	+	+	D +
+ E	+	+	+	+	+	+ E
F +	+	+	+	+	+	F +
+ H	+	+	+	+	+	+ H
J +	+	+	+	+	+	J +
+ K	+	+	+	+	+	+ K
L +	+	+	+	+	+	L +
+ M	+	+	+	+	+	+ M
N +	+	+	+	+	+	N +
+ P	+	+	+	+	+	+ P
R +	+	+	+	+	+	R +
+ S	+	+	+	+	+	+ S
T +	+	+	+	+	+	T +

OUT

WIRING SIDE VIEW
QUICKLATCH CONNECTORS

REVISIONS	CHANGE NO.	CHK.
		REV.

DESCRIPTION	DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		

ANGLES ±0° 30'	CLASS 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 ☐	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.025	±.04	±.063	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL

FINISH

DRN. E DeVries	3/3/75	FIRST USED ON MG1Ø
CHK'D J Smith	3/7/75	
ENG. DJ Allen	3-21-75	
PROJ. ENG. DJ Allen	3-21-75	
PROD. J Anthony	3-21-75	
NEXT HIGHER ASSY.		
B-DD-MG12-Ø		
SCALE		
SHEET 1 OF 1		

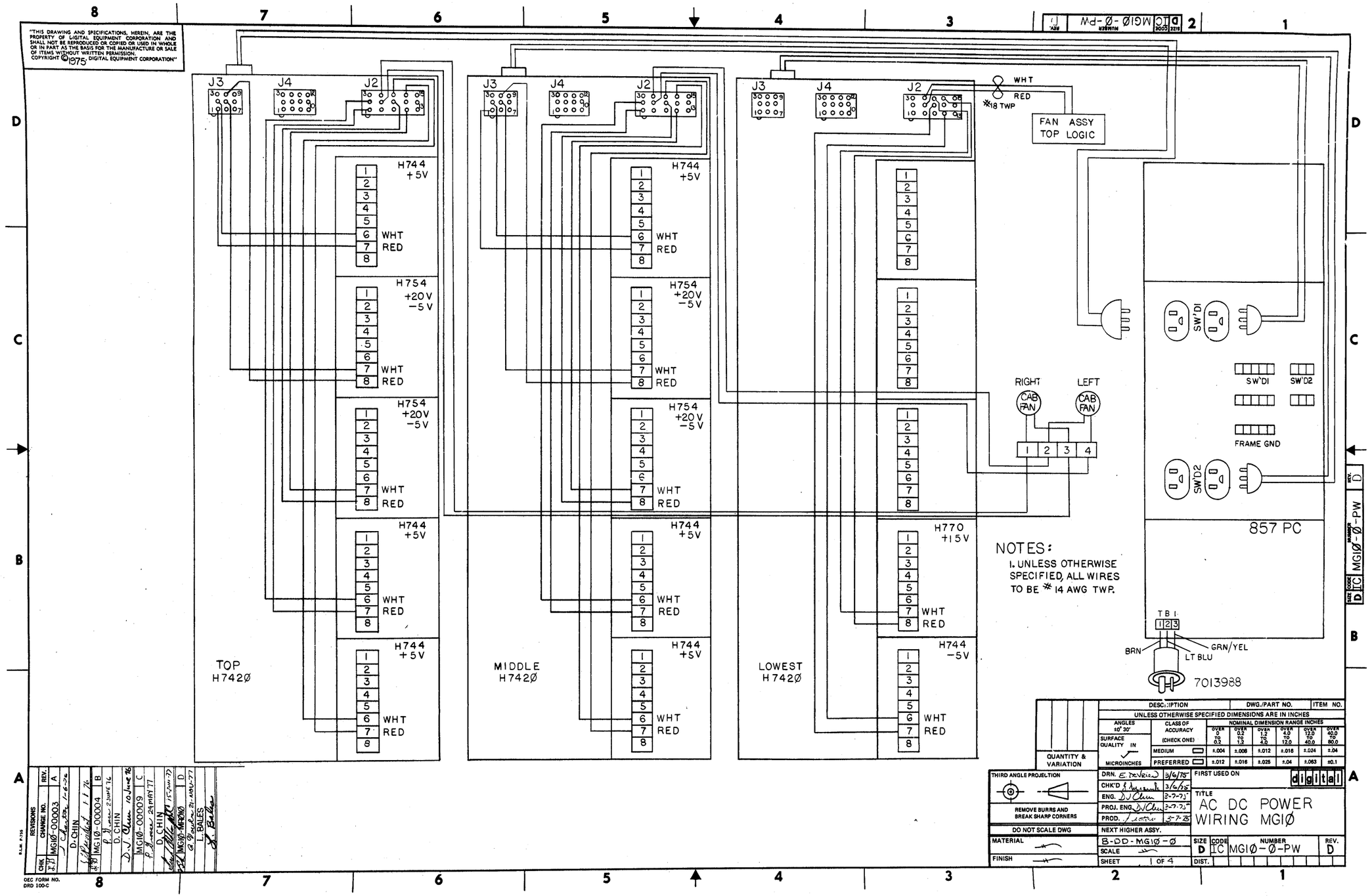
digital

TITLE
MEM BUS
INTERFACE

SIZE	CODE	NUMBER	REV.
D	IC	MGIØ-Ø-MBI	

DIST.

DEC FORM NO. DRD 100-C



NOTES:
1. UNLESS OTHERWISE SPECIFIED, ALL WIRES TO BE * 14 AWG TWP.

REVISIONS			
CHK	CHANGE NO.	REV.	
J. Chin 1-16-76	MGIØ-00003	A	
D-CHIN			
J.K. Rexford 1 1 76	MGIØ-00004	B	
P. Y. Lewis 2 JUNE 76			
D. CHIN			
D.J. Chin 10 June 76	MGIØ-00009	C	
P. Y. Lewis 24 MAY 77			
D. CHIN			
Larry Miller 15 Jun 77	MGIØ-MG000	D	
G. Poulos 21 NOV 77			
L. BALES			
L. Bales			

DESCRIPTION	DWG./PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES					
SURFACE QUALITY IN MICROINCHES		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
	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.025	±.04	±.063	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

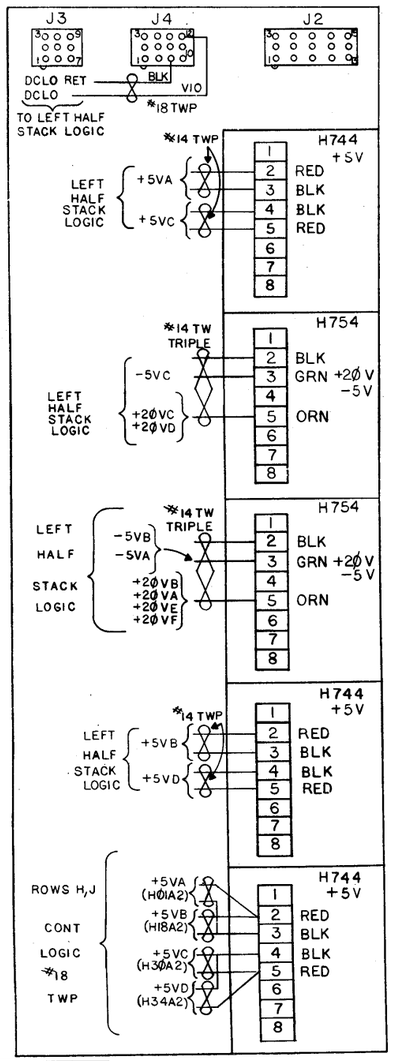
MATERIAL

FINISH

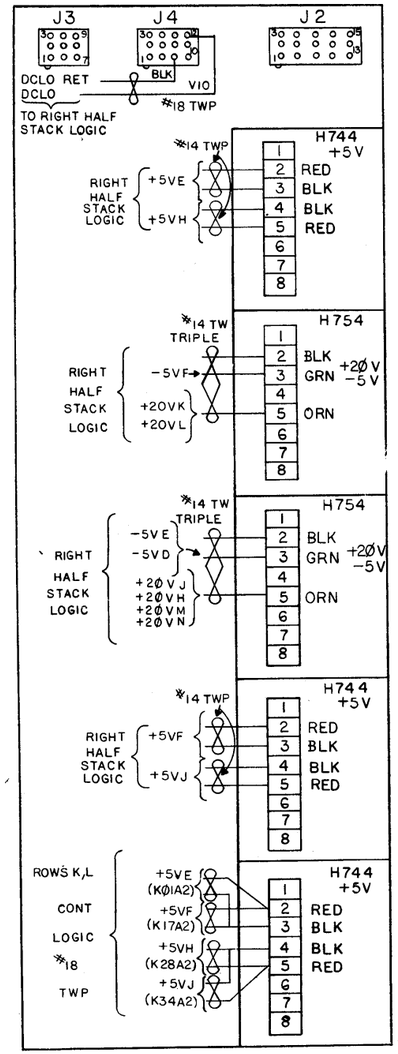
DRN. E. DeVeau	3/6/75	FIRST USED ON digital
CHK'D J. Rexford	3/6/75	
ENG. D.J. Chin	3-7-75	TITLE AC DC POWER WIRING MGIØ
PROJ. ENG. D.J. Chin	3-7-75	
PROD. J. Keeler	3-7-75	
NEXT HIGHER ASSY.		
B-DD-MGIØ-Ø		SIZE D CODE IC NUMBER MGIØ-Ø-PW REV. D
SCALE		
SHEET 1 OF 4		DIST.

OEC FORM NO. DRD 100-C

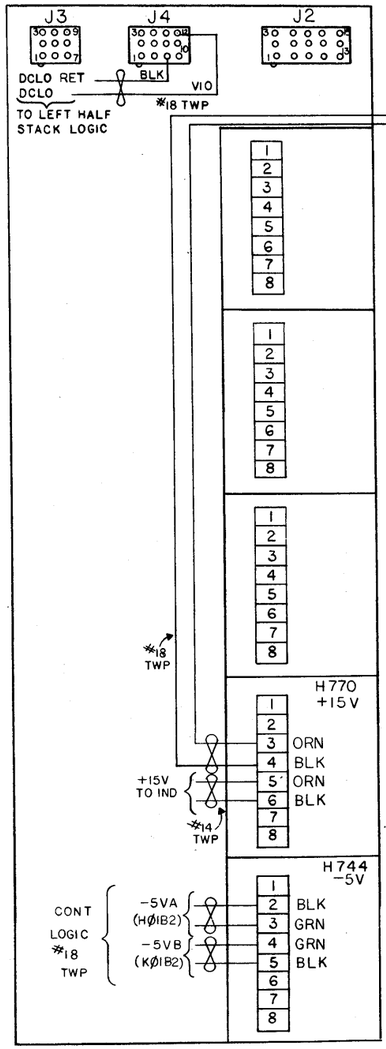
TOP H742Ø



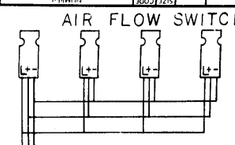
MIDDLE H742Ø

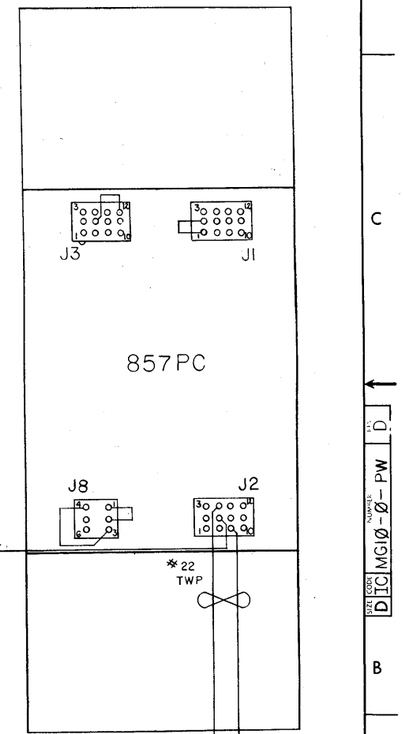


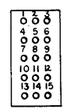
LOWEST H742Ø



AIR FLOW SWITCHES







WIRING SIDE

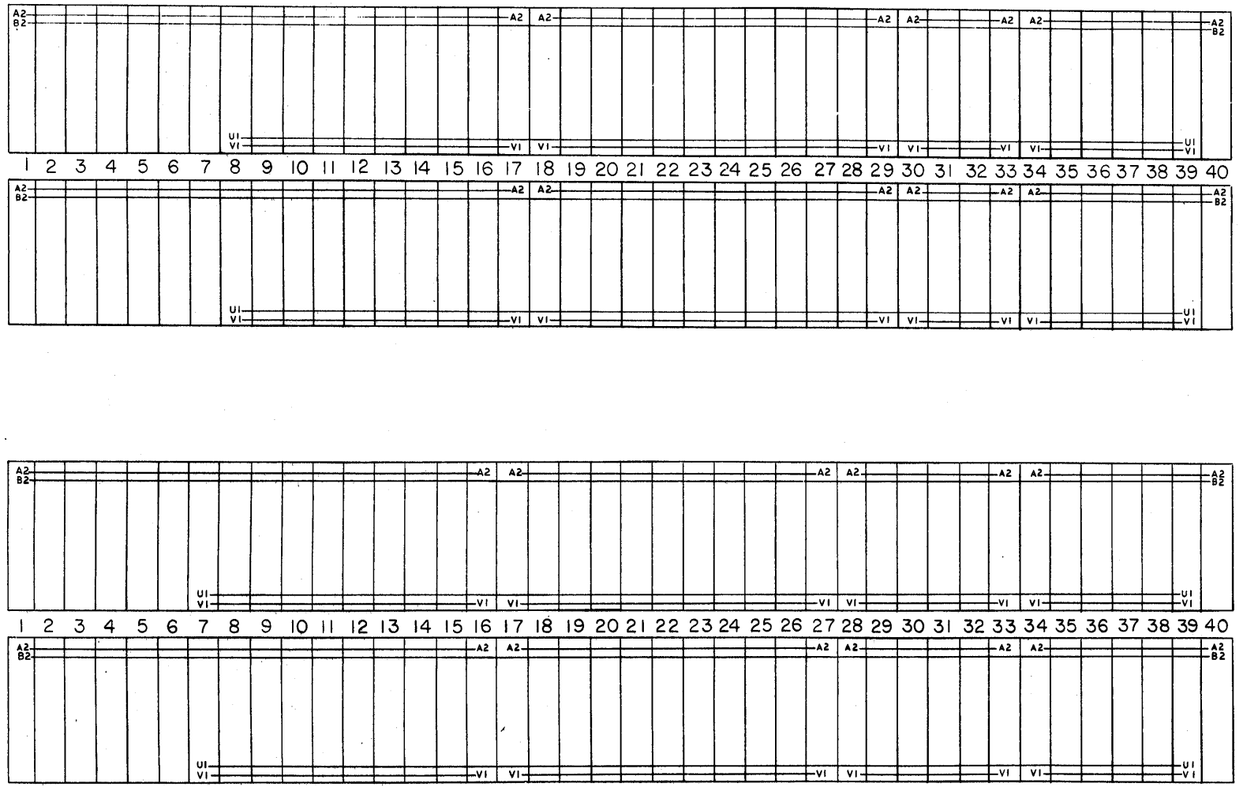
REF:
JUMPER ON J1, J3 AND J8 (857) TO BE 18 AWG BRN

LOGIC DOOR SWITCH

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
AC – DC POWER WIRING MGIØ	D	IC	MGIØ-Ø-PW	D
SCALE	SHEET 2 OF 4	DIST.		

DEC FORM 140 DRD 137

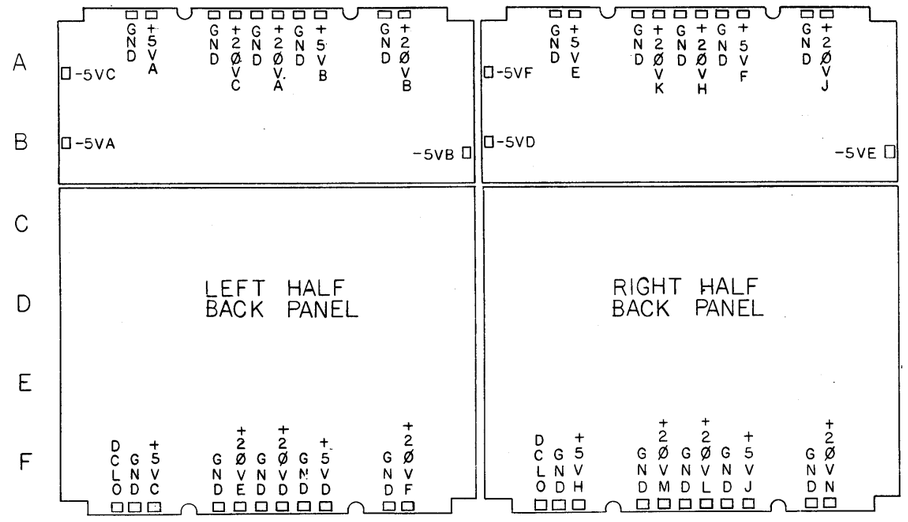


WIRE TABLE

ITEM NO.	DESCRIPTION AWG	DESCRIPTION COLOR	FROM CONN	FROM WITH	TO CONN	TO WITH	SIGNAL
	24	RED	HØ8A2	—	HØ8V1	—	+5VA
	↑	↑	JØ8A2	—	JØ8V1	—	+5VA
			HØ9V1	—	JØ9A2	—	+5VA
			H2ØA2	—	H2ØV1	—	+5VB
			J2ØA2	—	J2ØV1	—	+5VB
			H21V1	—	J21A2	—	+5VB
			H31A2	—	H31V1	—	+5VC
			J31A2	—	J31V1	—	+5VC
			H32V1	—	J32A2	—	+5VC
			H36A2	—	H36V1	—	+5VD
			J36A2	—	J36V1	—	+5VD
			H37V1	—	J37A2	—	+5VD
			KØ7A2	—	KØ7V1	—	+5VE
			LØ7A2	—	LØ7V1	—	+5VE
			KØ8V1	—	LØ8A2	—	+5VE
			K19A2	—	K19V1	—	+5VF
			L19A2	—	L19V1	—	+5VF
			K2ØV1	—	L2ØA2	—	+5VF
			K3ØA2	—	K3ØV1	—	+5VH
			L3ØA2	—	L3ØV1	—	+5VH
			K31V1	—	L31A2	—	+5VH
		↓	K36A2	—	K36V1	—	+5VJ
			L36A2	—	L36V1	—	+5VJ
		RED	K37V1	—	L37A2	—	+5VJ
		GRN	HØ8B2	—	HØ8U1	—	-5VA
		↑	JØ8B2	—	JØ8U1	—	-5VA
			HØ9U1	—	JØ9B2	—	-5VA
			H2ØB2	—	H2ØU1	—	-5VA
			J2ØB2	—	J2ØU1	—	-5VA
			H21U1	—	J21B2	—	-5VA
			H31B2	—	H31U1	—	-5VA
			J31B2	—	J31U1	—	-5VA
			H32U1	—	J32B2	—	-5VA
			H36B2	—	H36U1	—	-5VA
			J36B2	—	J36U1	—	-5VA
			H37U1	—	J37B2	—	-5VA
			KØ7B2	—	KØ7U1	—	-5VB
			LØ7B2	—	LØ7U1	—	-5VB
			KØ8U1	—	LØ8B2	—	-5VB
			K19B2	—	K19U1	—	-5VB
			L19B2	—	L19U1	—	-5VB
			K2ØU1	—	L2ØB2	—	-5VB
			K3ØB2	—	K3ØU1	—	-5VB
			L3ØB2	—	L3ØU1	—	-5VB
			K31U1	—	L31B2	—	-5VB
		↓	K36B2	—	K36U1	—	-5VB
		↓	L36B2	—	L36U1	—	-5VB
	24	GRN	K37U1	—	L37B2	—	-5VB

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
AC DC POWER WIRING MGIØ	D	IC	MGIØ-Ø-PW	D
SCALE — SHEET 3 OF 4	DIST.			



COLOR KEY:
-5V = GREEN
+5V = RED
+2ØV = ORANGE
DCLO = VIOLET

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
AC DC POWER WIRING MGIØ	D	IC	MGIØ-Ø-PW	D
SCALE	SHEET 4 OF 4	DIST.		

DEC FORM NO. DRD 137

DIGITAL EQUIPMENT CORPORATION

NOTE:

1. LIST OF PAPER TAPE FILES USED

MG1ØPL-NCB
MG1ØNG-NCB
MGTHNC-B1
MGTHTP-B1
MGTHTP-B2
MGTHTP-B12

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
MG1Ø		PARTS LIST		

REVISIONS	CHANGE NO.	CHK
F	MG1Ø-00002	
H	MG1Ø-00005	

DRN. Phil Reed DATE 1/15/75
CHK'D. J. Misiuk DATE 2/27/75
ENG. Kathy Walsh DATE 2/28/75
PROJ. ENG. D.J. Clem DATE 2-28-75
PROD. J. Arthur DATE 5/21/75
NEXT HIGHER ASSEMBLY D-AD-7010225-0-0
SCALE —/—
SHEET 1 OF 1

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE
WIRED ASSY
(CONTROL)

SIZE	CODE	NUMBER	REV.
K	WL	MG1Ø-Ø-CONT	H

DIST.

DEC FORM NO. DRB 109

NOTE:

1. LIST OF PAPER TAPE FILES USED

MGSTK-NCC

MGSTK-TPC

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
MG1Ø		PARTS LIST		

REVISIONS	CHANGE NO.	CHK
C	MG1Ø-00005	SC

DRN. PHIL REED	DATE 1/15/75	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D.	DATE 2/27/75	
ENG. Kathy Walsh	DATE 2/28/75	
PROJ. ENG.	DATE 2-28-75	
PROD.	DATE 5/21/75	
NEXT HIGHER ASSEMBLY: E-AD-7010235-0-0		
SCALE		
SHEET 1 OF 1		

TITLE: WIRED ASSY (STACK)

SIZE	CODE	NUMBER	REV.
K	WL	MG1Ø-Ø-STK	C

DIST.

DEC FORM NO. DRB 109

NOTES:

1. FOR DRAWING DIRECTORY, REFER TO: B-DD-5411446-0
2. CONN BLOCKS J1 THRU J4 ARE TO BE MOUNTED .25 ±.02 OFF ETCH SIDE (SIDE 2) OF ETCH BOARD ITEM NO. 1
3. SWITCHES ARE NOT TRI COMPATABLE
4. USE MOUNTING HARDWARE SUPPLIED WITH S1 THRU S35
5. INSTALL S35 SO THAT THE MOMENTARY POSITION IS DOWN

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1		ETCHED CIRCUIT BOARD	5008546	1
19	S1 THRU S7,S18 THRU S21, S23 THRU S30	TOGGLE SWITCH, DPDT	1209592	2
7	S8,S9,S22,S31 THRU S34	TOGGLE SWITCH, SPDT	1209590	3
8	S10 THRU S17	TOGGLE SWITCH, DPDT	1209593	4
1	S35	TOGGLE SWITCH, SPDT	1209591	5
4	J1 THRU J4	CONN BLOCK, 36 PIN	B-IA-7407466-0-0	6
4	C1 THRU C4	CAP., 10nf, 100V DISC	1001610-01	7
1		SWITCH PLATE NO. 1	C-IA-7412840-0-0	8
1		SWITCH PLATE NO. 2	C-IA-7412841-0-0	9
1		SWITCH PLATE NO. 3	C-IA-7412842-0-0	10
1		SWITCH PLATE NO. 4	C-IA-7412843-0-0	11
35		WASHER, NYLON, .250 X .375 X .03	9006712	12
1		LABEL, SELF-STICK, ADH BACK	9009255	13

PARTS LIST

FIRST USED ON OPTION MODEL: MGIØ

ETCH BOARD REV.

IC TYPE	GND	+5V

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE

IC PIN LOCATIONS

REVISIONS	CHANGE NO.	REV.

DEC NO.	EIA NO.	DEC NO.	EIA NO.

SEMICONDUCTOR CONVERSION CHART

DRN. J. Meirink DATE 10/26/74
CHKD. L. Cox DATE 1-6-75
ENG. J. Hamlin DATE 1/6/75
PROJ. ENG. D.J. Clair DATE 1/6/75
PROD. P. Reed DATE 12-1-75
NEXT HIGHER ASSY B-DD-5411446-0
SCALE NONE
SHEET 1 OF 5

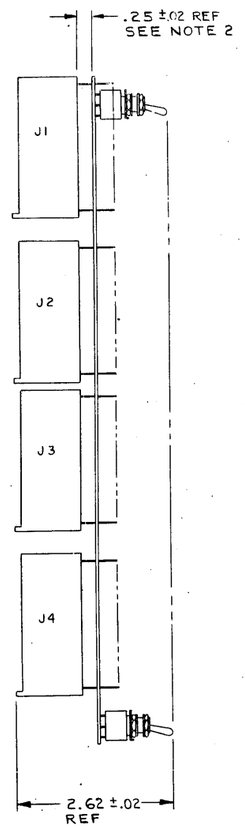
digital

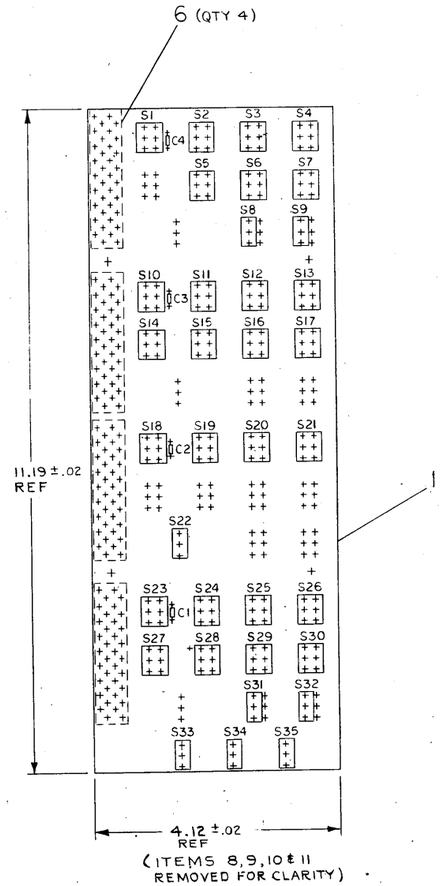
TITLE: SWITCH PLATE ASSY

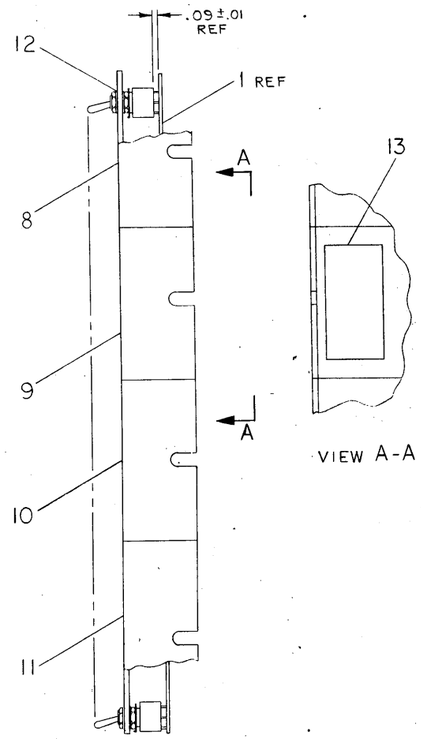
SIZE D | CODE UA | NUMBER 5411446-0-0 | REV.

DIST.

DEC FORM NO. 202 155.0





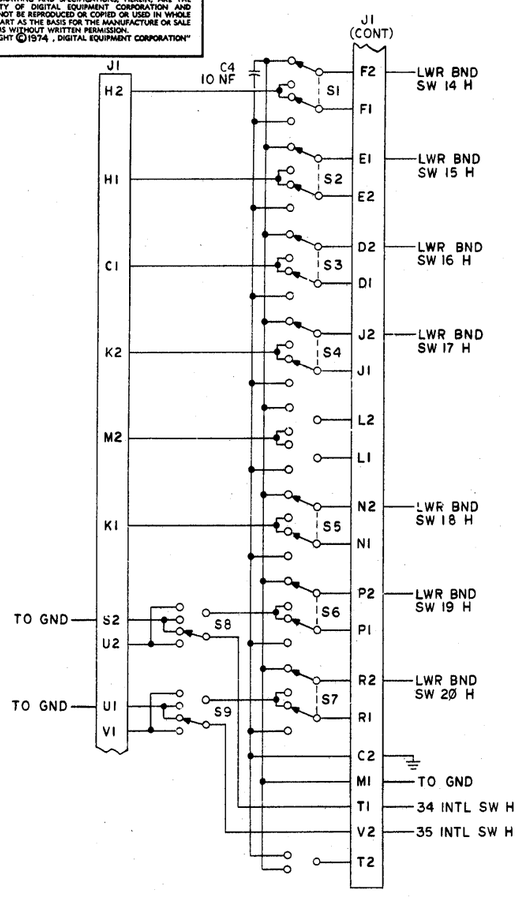


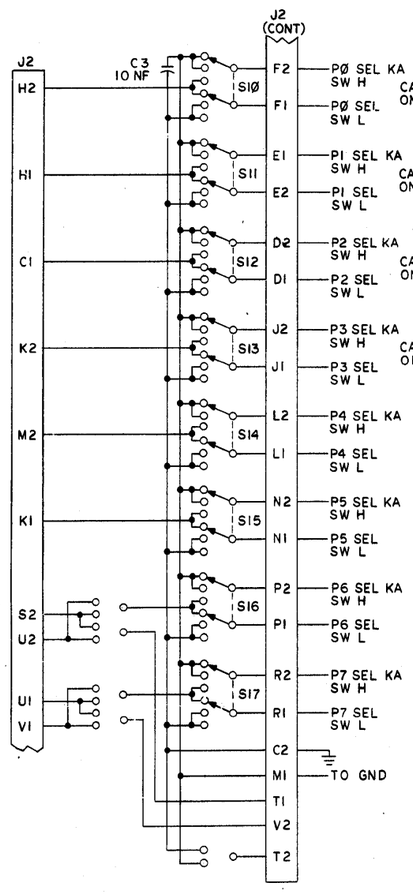
SIDE 1

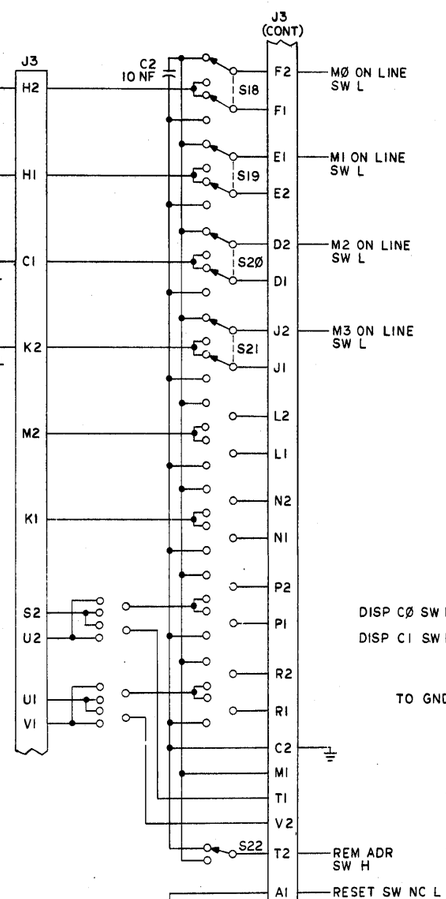
REVISIONS		
CHK	CHANGE NO.	REV.

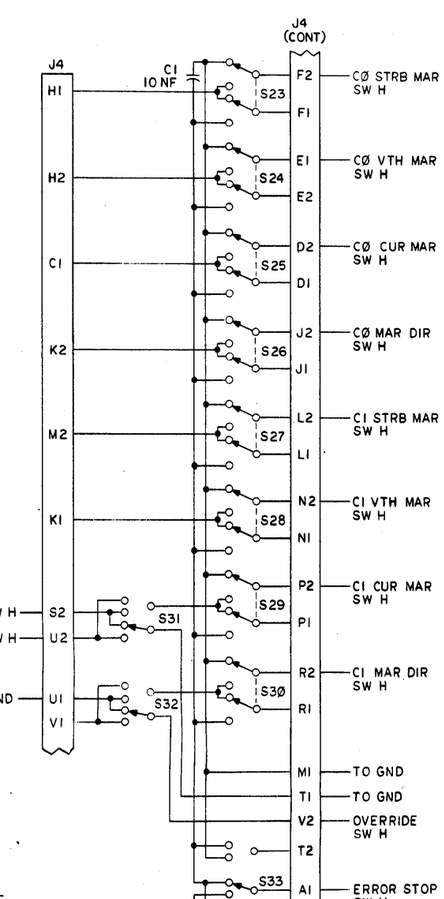
TITLE	SIZE	CODE	NUMBER	REV.
SWITCH PLATE ASSY	D	UA	5411446-0-0	
SCALE 1/1 SHEET 2 OF 5	DIST.			

DEC FORM 10
DRD 137









SWITCH POSITION - TYP

UNLESS OTHERWISE INDICATED:
S1 THRU S7, S18 THRU S21, S23 THRU S30 ARE DPDT (ON-NONE-ON)
S10 THRU S17 ARE DPDT (ON-ON-ON)
S8, S9, S22, S31, S32, S33, S34 ARE SPDT (ON-NONE-ON)
S35 IS SPDT (MOMENTARY CONTACT) (NONE-ON-(ON))

CAPACITORS ARE 100V, 20 %

FOR PARTS LIST REFER TO D UA-5411446-0-0

REVISIONS	REV.	CHANGE NO.	CHK

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
MGIØ	PARTS LIST			

DIMENSIONAL TOLERANCE
DIMENSIONS ARE MILLIMETERS / INCHES UNLESS OTHERWISE SPECIFIED

MILLIMETERS	INCHES	ANGLES
X.XX ±0.10	.XXX ±.005	±0° 30'
X.X ±0.5	.XX ±.02	
X ±2.	.X ±.1	

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL —

FINISH —

NEXT HIGHER ASSY. D-UA-5411446-0-0

SCALE —

SHEET 1 OF 1

	NAME	DATE
DRN.	J. Mc Intosh	12/13/74
CHKD.	K. DeLeo	1-6-75
ENG.	J. Hamlin	1/6/75
PROJ. ENG.	D.J. Lum	1/6/75
PROD.	J. Kiely	1-6-75

digital

TITLE
MGIØ SWITCH BOARD

SIZE	CODE	NUMBER	REV.
D	CS	5411446-0-1	

DIST.

DEC FORM NO. DRD 100-B

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY J. MISIUK	CHECKED D J Chin	SECTION
DATE 2/26/75	DATE 2-28-75	
ENG D J Chin	PROD J Auther	ISSUED SECT.
DATE 2-28-75	DATE 3/7/75	

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION: KA1Ø MEM BUS	KI1Ø MEM BUS	#PER MC1Ø-G**
1	EK-MG1Ø -MM-ØØ1	MG1Ø CORE MEMORY MAINTENANCE MANUAL	1	1	
2	B-DD-MG1Ø-Ø	MG1Ø DRAWING SET	1	1	
3	K-WL-MG1Ø-Ø-CONT	MG1Ø WIRE LIST NAM SORT (WRP)	1	1	
4	K-WL-MG1Ø-Ø-CONT	MG1Ø WIRE LIST PIN SORT (PIN)	1	1	
5	K-WL-MG1Ø-Ø-STK	MG1Ø WIRE LIST NAM SORT (WRP)	1	1	
6	K-WL-MG1Ø-Ø-STK	MG1Ø WIRE LIST PIN SORT (PIN)	1	1	
7	BC1ØJ-X *	AMP QUICK-LATCH TO CAJOLET	2		2
8	BC1ØK-X *	AMP QUICK-LATCH EACH END		2	2
9	7008288-X *	REMOTE TURN-ON	1	1	
10	7010789	GROUND CABLE (#4 AWG WITH 90-8888 LUGS)	1	1	
11	H95ØS	FILTER, FAN HOUSING	1	1	
12	MAINDEC-1Ø-DCMMA-Ø-PH/D	SIMPLE MEMORY DATA TEST	1	1	
13	MAINDEC-1Ø-DCMMB-Ø-PH/D	SIMPLE MEMORY ADDRESS TEST	1	1	
14	MAINDEC-1Ø-DCMMC-Ø-PH/D	FAST AC DIAGNOSTIC	1	1	
15	MAINDEC-1Ø-DCMMD-Ø-PH/D	MEMORY DIAGNOSTIC	1	1	
16	MAINDEC-1Ø-DCMME-Ø-PH/D	BLT/MEMORY EXERCISER TEST	1	1	
17	MAINDEC-1Ø-DCMMF-Ø-PH/D	FLOATING ZERO/ONE MEMORY DIAGNOSTIC	1	1	
18	MAINDEC-1Ø-DAKFA-Ø-PH/D	INSTRUCTION TIMING TEST	1		
19	MAINDEC-1Ø-DBKFB-Ø-PH/D	INSTRUCTION TIMING TEST		1	
	*STANDARD LENGTHS WILL BE 10 FEET UNLESS OTHERWISE SPECIFIED				
	**CABLE TYPE REQ'D DEPENDS ON SYSTEM CONFIGURATION				

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
ACCESSORY LIST (MG1Ø)	B-DD-MG1Ø-Ø	A	PL	MG1Ø-Ø-ACL	A	MG1Ø - 00001
	SHEET 1 OF 2	DIST.				

DEC FORM DEC 16-(325)-1031-N870
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY J. MISIUK	CHECKED D.J.CHIN	SECTION
DATE 2-26-75	DATE 2-28-75	
ENG D.J.CHIN	PROD J. AUTHER	ISSUED SECT.
DATE 2-28-75	DATE 3-7-75	

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION: KAIØ MEM BUS	KAIØ MEM BUS	#PER MCIØ-G
20	H866	TERMINATORS	2	2	2
21	915	3 INCH PATCHBOARDS	16	16	16
22	915	8 INCH PATCHBOARDS	16	16	16

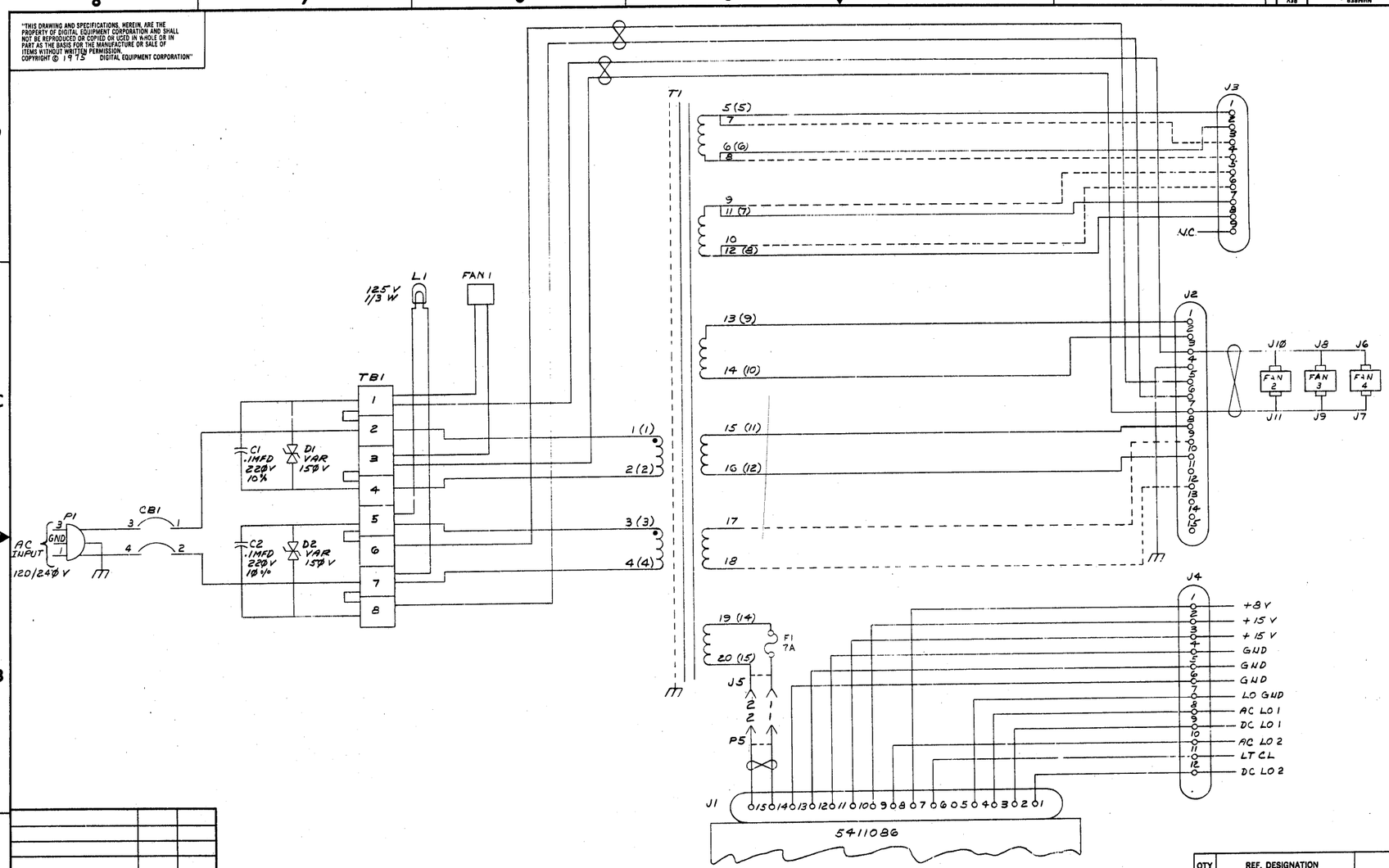
TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
ACCESSORY LIST (MGIØ)	B-DD-MGIØ-0	A	PL	MGIØ-Ø-ACL	A	
	SHEET 2 OF 2	DIST.				

DEC FORM DEC 16-(325)-1031-N870
DRA 110

NOTES:
1. DOTTED LINES INDICATED WINDINGS OMITTED IN E AND F VERSIONS.
2.

VERSION	TB1 JUMPERS	CB1
A	2+6, 4+8	20 A
B	4+6	15
E	2+6, 4+8	20
F	4+6	15

3. NUMBERS IN ( ) INDICATE KFORMER LEAD NUMBERS ON E&F VERSION.
4. ~~O RING TERMINAL CONNECTIONS.~~
~~MAST TAB CONNECTIONS.~~



IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE		
IC PIN LOCATIONS		

REV.	CHANGE NO.	CHK	REVISIONS
A	H7420-0001		4. Added 6-20-75 F. LOTA

DEC NO.	EIA NO.	DEC NO.	EIA NO.

SEMICONDUCTOR CONVERSION CHART

FIRST USED ON OPTION MODEL: H742Ø

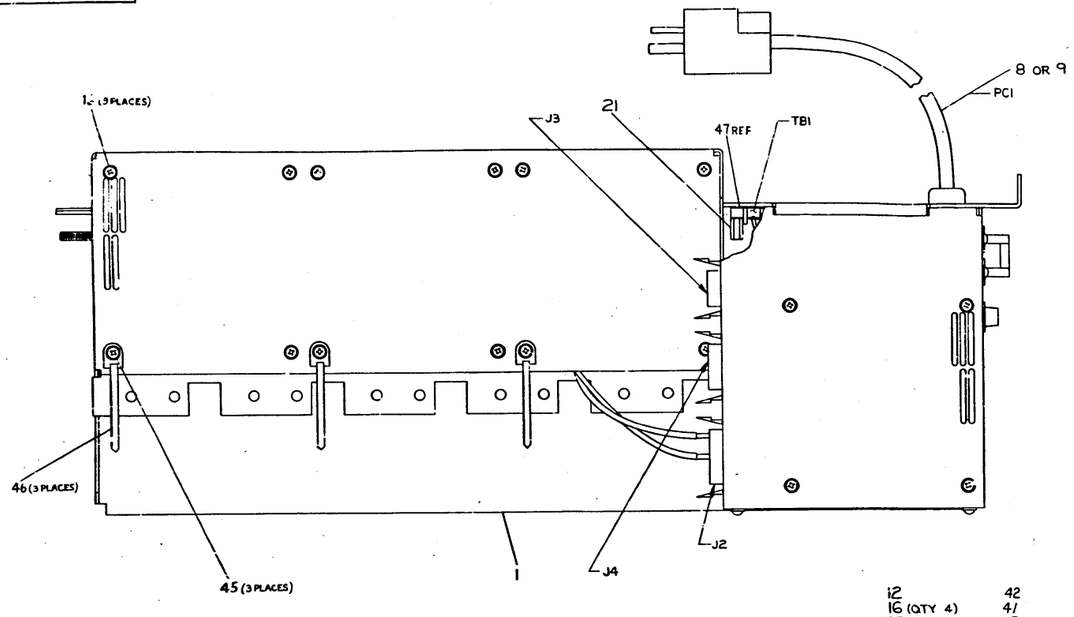
QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

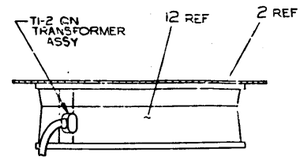
PARTS LIST

DRN. Thurier	DATE 1-17-75	digital
CHKD. Nagashima	DATE 1-22-75	
ENG. [illegible]	DATE 2/12/75	TITLE WIRING DIAGRAM
PROJ. ENG. [illegible]	DATE 2/12/75	
PROD. [illegible]	DATE 2/24/75	
NEXT HIGHER ASSY		SIZE D CODE CS NUMBER H7420-Ø-1 REV. A
SCALE		DIST.
SHEET 1 OF 1		

DEC FORM NO. DRD 139.0

SIZE D CODE CS NUMBER H7420-Ø-1 REV. A

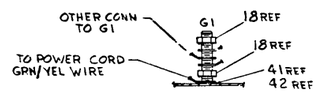




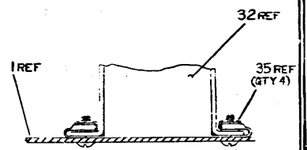
SECTION D-D
SCALE: NONE

NOTES:

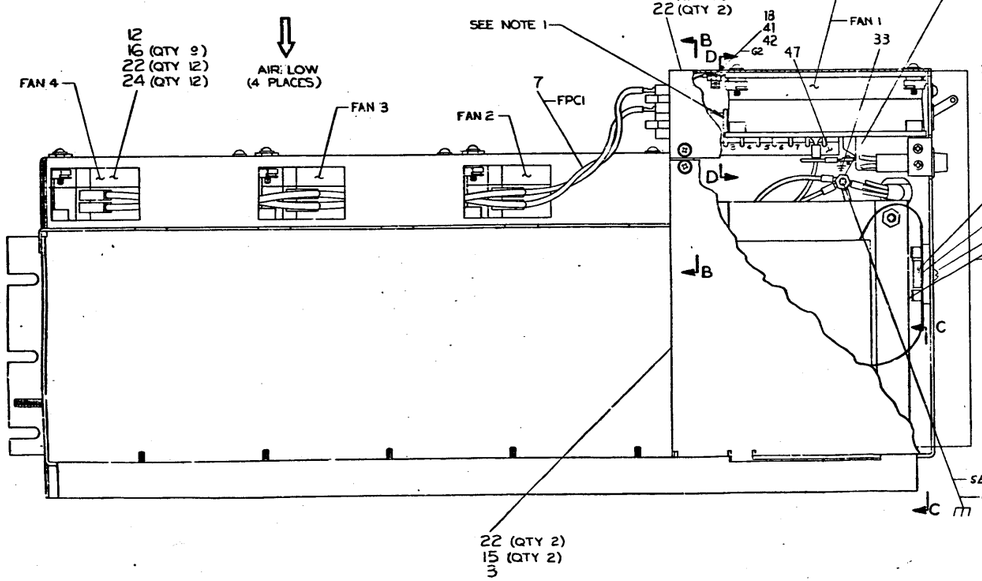
1. AFTER TERMINAL BLOCK (PART OF TRANSFORMER ASSEMBLY) IS MOUNTED TO CHASSIS, CAPACITOR AND VARISTOR SHOULD BE BENT FORWARD TO ALLOW CLEARANCE FOR COVER.
2. ~~REV D AND EARLIER TRANSFORMERS DO NOT HAVE THIS WIRE. H7421 ONLY~~
3. FILLER PANELS (D-IA-7413405-0-0) MAY BE USED IN UNFILLED REGULATOR SLOTS (REF).
4. CABLE TIE MOUNTS TO BE MOUNTED AFTER TRANSFORMER ASSEMBLY IS INSTALLED.
5. ~~H7420 -A+B ONLY~~
6. ~~H7420 -E+F ONLY~~
7. REMOVE PAINT MASK, APPLY CONDUCTIVE GREASE ITEM 42, PLACE ITEM 41 8-32 EXT TOOTH WASHER NEXT TO CHASSIS BEFORE INSTALLING REMAINING HARDWARE. DO THIS AT G1 AND G2. MAKE SAFTEY GROUND CONNECTIONS PER DETAIL B.

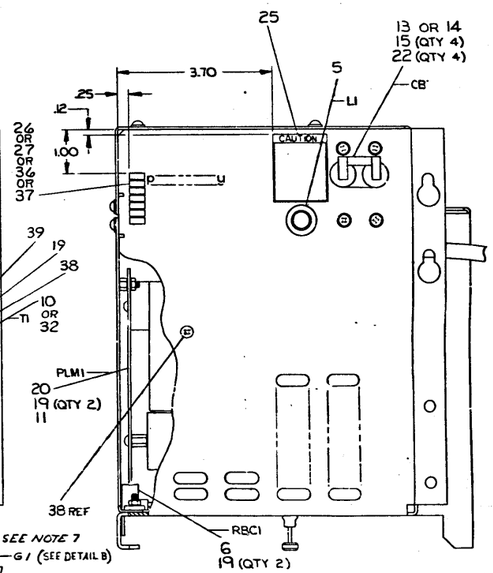


DETAIL B
SCALE: NONE



SECTION C-C
SCALE: NONE





FIRST USED ON OPTION MODEL	H7420	FOR PARTS LIST REFER TO A-P-H7420-0-0	
DIMENSIONAL TOLERANCE	DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED	QTY. / DESCRIPTION / PART NO. / ITEM NO.	PARTS LIST
		DRN. / CHK'D. / ENG. / PROJ. ENG. / PROD. / NEXT HIGHER ASSY	DATE
THIRD ANGLE PROJECTION	REMOVE ALL BURRS AND SHARP CORNERS	MATERIAL / FINISH	SCALE / SHEET
digital	TITLE: H7420 POWER SUPPLY	SIZE: E / CODE: 04 / NUMBER: H7420-0-0 / REV: H	

8 7 6 5 4 2 1

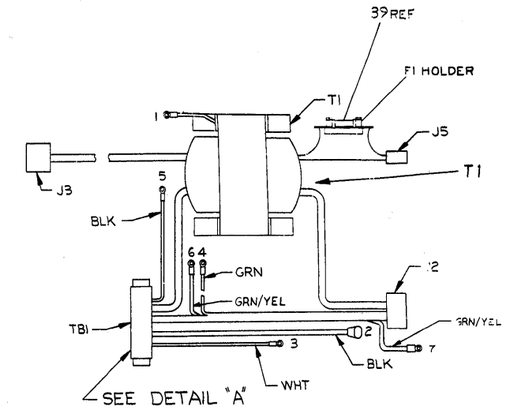
DO NOT SCALE DRAWING

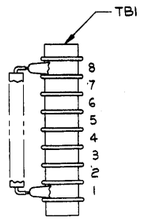
WIRE TABLE

ITEM NO	DESCRIPTION AWG	DESCRIPTION COLOR	FROM CONNECTION	TO CONNECTION	REMARKS
10	++	++	T1-J5	RBC1-P5	
	14	GRN	T1-1	G1	SEE NOTE 2&7
	++	BLK	T1-2	FAN1-1 & 2	
	14	WHT	T1-3	CB1-1	
	14	GRN	T1-4	G1	SEE NOTE 7
10	14	BLK	T1-5	CB1-2	
5	22	BLK	L1-1	TB1-5	
5	22	BLK	L1-2	TB1-7	
7	18	RED	FPC1-J6	FAN 4-1	
		WHT	FPC1-J7	FAN 4-2	
		RED	FPC1-J8	FAN 3-1	
		WHT	FPC1-J9	FAN 3-2	
		RED	FPC1-J10	FAN 2-1	
		WHT	FPC1-J11	FAN 2-2	
		RED	FPC1-1	J2-3	
7	18	WHT	FPC1-2	J2-7	
8/9	14	BRN	PC1-1	CB1-4	
8/9	14	GRN/YEL	PC1-2	G1	SEE NOTE 7
8/9	14	BLU	PC1-3	CB1-3	
11	++	++	PLM1	RBC1-J1	
10	14	GRN/YEL	T1-6	G1	SEE NOTE 7
10	14	GRN/YEL	T1-7	G2	SEE NOTE 7

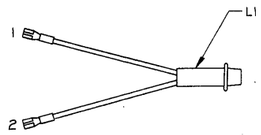
JUMPER TABLE

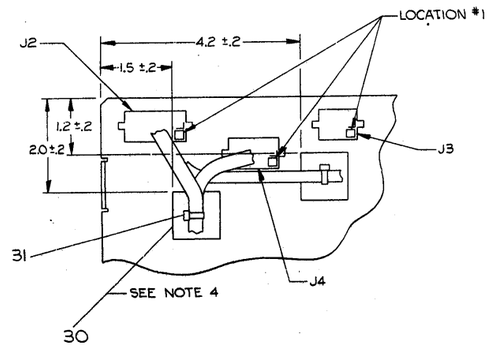
ITEM NO	DESCRIPTION AWG	DESCRIPTION COLOR	FROM CONNECTION	FROM WITH	TO CONNECTION	TO WITH	VARIATION
29	14	BLK	TB1-2		TB1-6		H7420E & A
29	14	BLK	TB1-4		TB1-8		
29	14	BLK	TB1-4		TB1-6		H7420F & B



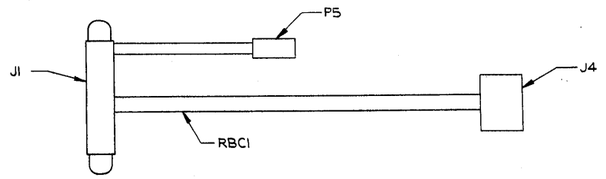


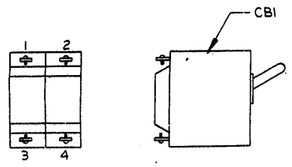
DETAIL "A"
SCALE: NONE

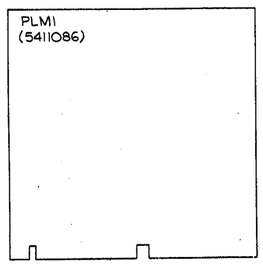


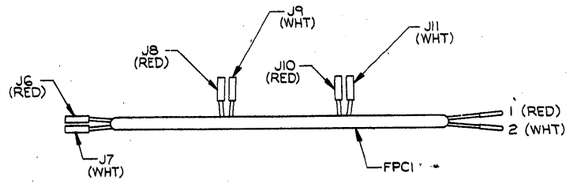


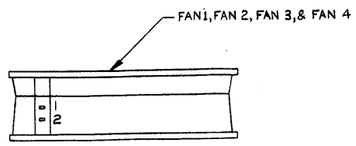
SECTION B-B
SCALE: NONE

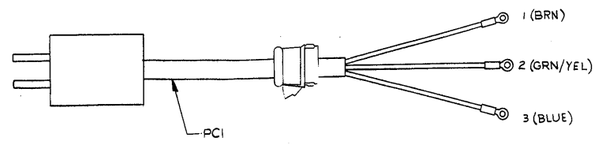












REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV
H7420 POWER SUPPLY	E	UA	H7420-0-0	H
SCALE NONE SHEET 2 OF 2	DIST.			

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY R. THELLEN	CHECKED P. CAPPABIANCA	SECTION 1
DATE 1/17/75	DATE 2/3/75	
ENG R. WOLF	PROD J. BORENSTEIN	ISSUED SECT. 1
DATE 2/3/75	DATE 2/3/75	

ITEM NO	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION H7420-A	H7420-B	H7420-H
1	E-IA-7010501-0-0	CHASSIS (H742Ø)	1	1	1
2	D-MD-7412459-0-0	COVER, CONTROL BOX	1	1	1
3	D-IA-7412461-0-0	BRKT, P.C. BOARD MTG.	1	1	1
~~4~~	~~C-IA-7413125-0-0~~	~~PLATE, ADAPTER (H742Ø)~~	~~-~~	~~-~~	
5	C-IA-7010730-0-0	POWER INDICATOR ASSEMBLY	1	1	1
6	D-IA-7010729-0-0	CABLE, REGULATOR BOARD	1	1	1
7	D-IA-7010728-0-0	CABLE, FAN POWER	1	1	1
8	C-IA-7010727-1-0	POWER CORD ASSY (120V)	1	-	-
9	C-IA-7010727-2-0	POWER CORD ASSY (240V)	-	1	-
10	C-IA-7010727-5-0	POWER CORD ASSY (120V)	-	-	1
11	D-CS-5411086-0-1	POWER LINE MONITOR	1	1	1
12	1209403-01	FAN	4	4	4
~~13~~	~~1210191-06~~	~~CIRCUIT BREAKER (20A)~~	~~1~~	~~-~~	
~~14~~	~~1210191-03~~	~~CIRCUIT BREAKER (15A)~~	~~-~~	~~1~~	
15	9006020-01	SCR, PHL PAN HAD #6-32 x .25	8	8	8
16	9006025-01	SCR, PHL PAN HD #6-32 x .62	13	13	13
~~17~~	~~9006565-00~~	~~NUT, KEP #10-32~~	~~-~~	~~-~~	
18	9006563-00	NUT, KEP #8-32	3	3	3
19	9008185-00	NUT, KEP #6-32	5	5	5
20	9006840-00	SPACER, #6-32 x .19	2	2	2
21	9006851-00	SPACER, #6-32 x .50	2	2	2
22	9006633-00	WASHER, INT. TOOTH LOCK #6	24	24	24

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
POWER SUPPLY H742Ø	E-UA-H742Ø-Ø-Ø	A	PL	H742Ø-Ø-Ø	H	H7420-00007
	SHEET 1 OF 3	DIST.				

DEC FORM DEC 16 (325) 1031 N870
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY R. THELLEN	CHECKED P. CAPPABIANCA	SECTION 1
DATE 1/17/75	DATE 2/3/75	
ENG R. WOLF	PROD J. BORENSTEIN	ISSUED SECT. 1
DATE 2/3/75	DATE 2/3/75	

ITEM NO	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION H742Ø-A	H742Ø-B	H742Ø-H
~~23~~	~~9008509-00~~	~~RELIEF, STRAIN~~	~~1~~	~~1~~	
24	9009165-00	CLIP, FAN MOUNTING	16	16	16
25	A-DC-7413184-0-0	POWER SUPPLY DECAL (H742Ø)	1	1	1
26	7420763-0-0	POWER SUPPLY DECAL (H742ØH)	-	-	1
~~27~~	~~A-DC-7413185-0-0~~	~~POWER SUPPLY DECAL (H742ØF)~~	~~-~~	~~-~~	
~~28~~	~~9007969-00~~	~~TERMINAL, QUICK CONNECT~~	~~4~~	~~2~~	
29	7014353	JUMPER	2	1	2
30	9008264-00	MOUNT, CABLE TIE, ADHESIVE	2	2	2
31	9007880-00	TIE, CABLE	2	2	2
32	D-IA-7011211-0-0	TRANSFORMER ASSY	1	1	1
33	3612680-01	SAFETY GROUND DECAL	1	1	1
34	9006074-3	SCR, PH. HD. TRUSS 10x32x5/8	4	4	4
35	9006586	TINNERMAN SPEED NUT 10-32	4	4	4
36	A-DC-7413966-0-0	POWER SUPPLY DECAL (H742ØA)	1	-	-
37	A-DC-7413967-0-0	POWER SUPPLY DECAL (H742ØB)	-	1	-
38	9006021-1	SCR. PAN HD. 6-32x5/16	1	1	1
39	9007224	FUSE 7 AMP SLOW BLOW	1	1	1
~~40~~	~~9009768-01~~	~~RELIEF, STRAIN~~	~~1~~	~~1~~	
41	9008072	8-32 WASHER EXT. TOOTH	1	1	1
42	4901173-01	CONDUCTIVE GREASE	A/R	A/R	A/R
43	1212124-01	CIRCUIT BREAKER (20A)SCREW TERM	1	-	1
44	1212124-02	CIRCUIT BREAKER (15A)SCREW TERM	-	1	-

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
POWER SUPPLY H742Ø	E-UA-H742Ø-Ø-Ø	A	PL	H742Ø-Ø-Ø	H	
	SHEET 2 OF 3	DIST.				

DEC FORM DEC 16 (325) 1031 N870
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY R. THELLEN	CHECKED P.CAPPABIANCA	SECTION
DATE 17-JAN-75	DATE 3-FEB-75	1
ENG R. WOLF	PROD J. BORENSTEIN	ISSUED SECT.
DATE 3-FEB-75	DATE 3-FEB-75	1

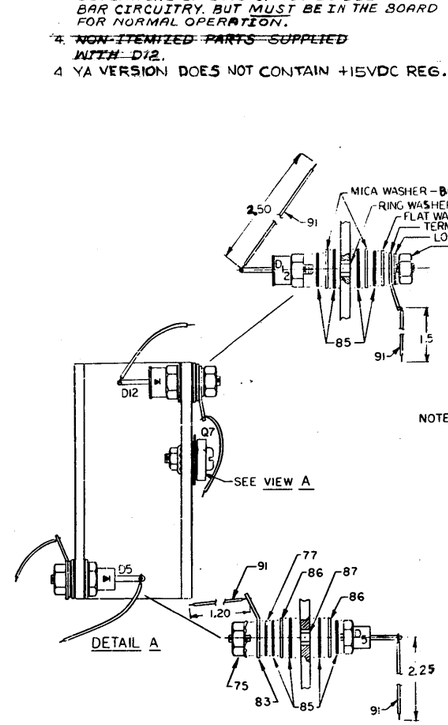
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION H7420-A	H7420-B	H7420-H
45	9006026-1	SCR PH PAN HD #6-32 x 3/4	3	3	3
46	9007033	TIE CABLE	3	3	3
47	9006933	BLOCK, TERM MARKER STRIP	1	1	1

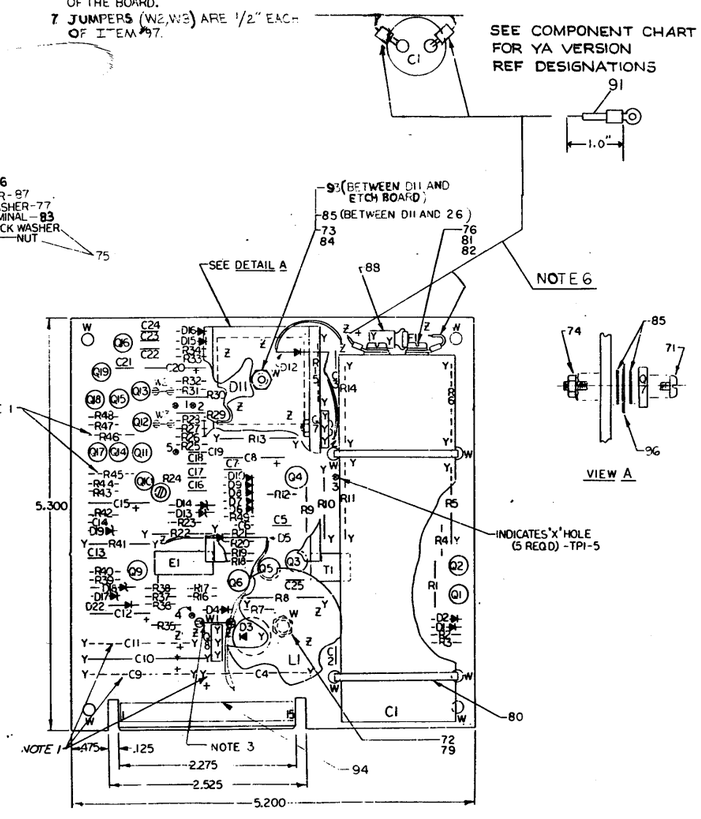
TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
POWER SUPPLY H742Ø	E-UA-H742Ø-Ø-Ø	A	PL	H742Ø-Ø-Ø	H	
	SHEET 3 OF 3	DIST.				

DEC FORM DEC 16 (325) 1031 N870
DRA 110

NOTES:

1. ~~R45,R46,C4,C9,&C11 ARE NOT USED ON BASIC 5411086 BUT ARE RESERVED FOR PLANNED FUTURE MODULE VARIATIONS.~~
2. ** TOTAL +15V AND +8V CURRENT NOT TO EXCEED 4.0 AMPERES.
3. W1 (TEST JUMPER) MAYBE TEMPORARILY REMOVED WHILE TROUBLE-SHOOTING TO DETERMINE IF LOSS OF 15V IS DUE TO CROW-BAR CIRCUITRY. BUT MUST BE IN THE BOARD FOR NORMAL OPERATION.
4. ~~NON ITEMIZED PARTS SUPPLIED WITH D12.~~
4. YA VERSION DOES NOT CONTAIN +15VDC REG.
5. A) FOR STANDARD VERSION USE SHEETS 1,2,3,&4 OF THIS DWG.
   B) FOR YA VERSION USE SHEETS 1,2,&3 OF THIS DWG.
6. WIRES MUST NOT EXTEND BEYOND THE DIMENSIONS OF THE BOARD.
7. JUMPERS (W2,W3) ARE 1/2" EACH OF ITEM 97.





REF	REF				
REF	REF		X-Y COORDINATE HOLE LOCATION	K-CO-5411086-0-A	1
REF	REF		ASSY/DRILLING HOLE LAYOUT	D-AH-5411086-0-5	2
REF	REF		MODULE ECO HISTORY	B-MH-5411086-0-6	3
1	1		ETCHED CIRCUIT BOARD	5011085	4
0	1	C2	CAPACITOR 56PF 100V 5%	1000012	5
4	4	C16,C17,C18,C21	CAPACITOR 330PF 100V 5%	1000023	6
3	5	C3,C13,C19,C22,C23	CAPACITOR .01uf 100V 20%	1001610-01	7
1	3	C8,C12,C15	CAPACITOR 2.2uf 35V 10%	1002431	8
2	2	C6,C25	CAPACITOR 18PF 100V 5%	1002608	9
1	1	C20	CAPACITOR 1.5uf 35V 10%	1009725	10
4	4	C5,C7,C14,C24	CAPACITOR .22uf 50V -20%+80%	1010274-01	11
0	1	C10	CAPACITOR 500uf 25V -10%+75%	1010509-01	12
1	1	C1	CAPACITOR 8400uf 50V -10%+75%	1010851	13
1	2	D2,D19	DIODE IN748A	1100122	14
0	1	D5	DIODE IN2970B	1100134	15
0	1	D3	DIODE MR1033B	1103341	16
7	8	D1,D6,D7,D8,D9,D15,D16,D22	DIODE D672	1105275	17
1	2	D10,D17	DIODE IN4744	1105648	18
0	1	D4	DIODE IN4004	1105796	19
0	1	D12	DIODE IN3880	1109440	20
0	1	D18	DIODE IN967A	1110068	21
~~2~~	~~2~~	~~D26,D21~~	~~DIODE MV5054-1 (LIGHT EMITTING)~~	~~1110324~~	~~22~~
1	1	D11	DIODE BRIDGE 200V 2A	1110714	23
2	2	D13,D14	DIODE ITT2429	1110925	24
0	1	F1	FUSE PICO 5A	1205747	25
0	1		HEAT SINK	1211986	26
0	1	R23	RESISTOR 47 1/4W 5%	1300202	27
0	2	R7,R40	RESISTOR 100 1/4W 5%	1300229	28
0	1	R41	RESISTOR 100 1W 5%	1300232	29
1	3	R4,R12,R49	RESISTOR 220 1/4W 5%	1300271	30
0	1	R14	RESISTOR 220 2W 10%	1300278	31
0	1	R11	RESISTOR 680 2W 5%	1300348	32
2	2	R18,R20	RESISTOR 1K 1/4W 5%	1300365	33
0	1	R1	RESISTOR 1.5K 1/2W 5%	1300391	34
0	1	R19	RESISTOR 2.2K 1W 10%	1300420	35
1	1	R15.	RESISTOR 3.3K 1W 10%	1300437	36
0	1	R3	RESISTOR 3.3K 1/4W 5%	1300439	37
2	2	R43,R47	RESISTOR 10K 1/4W 5%	1300479	39
0	1	R37	RESISTOR 10 1/4W 5%	1301317	39
2	3	R2,R44,R48	RESISTOR 750 1/4W 5%	1301401	40
0	1	R38	RESISTOR 680 1/4W 5%	1301424	41
0	1	R16	RESISTOR 22K 1/4W 5%	1301808	42
1	1	R13	RESISTOR 1K 2W 5%	1301952	43
0	1	R9	RESISTOR 27 1 2W 5%	1302253	44
2	2	R19,R21	RESISTOR 30K 1/4W 5%	1302394	45
0	1	R36	RESISTOR 511 1 4W 1%	1302411	46
0	1	R39	RESISTOR 909 1 4W 1%	1302685	47
1	1	R25	RESISTOR 3.16K 1/4W 1%	1303C45	48
1	1	R8	RESISTOR 470 2W 5%	1303062	49
1	2	R17,R28	RESISTOR 1K 1 4W 1%	1303114	50
1	1	R31	RESISTOR 2.61K 1/4W 1%	1303303	51
0	1	R42	RESISTOR 10K 1/4W 1%	1303312	52
2	2	R33,R34	RESISTOR 5.11K 1/4W 1%	1304854	53
1	1	R30	RESISTOR 9.09K 1/4W 1%	1304855	54
YA	QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

COMPONENT CHART - YA VERSION		
3	C19,C22,C23	7
1	C8	8
1	D19	14
7	D6,D7,D8,D9,D15,D16,D22	17
1	D10	18
1	R49	30
2	R44,R48	40
1	R28	50
4	Q3,Q5,Q10,Q19	63
4	Q11,Q12,Q13,Q16	66
QTY	REF. DESIGNATION	ITEM

IC TYPE	GND	+5V

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE

IC PIN LOCATIONS

REV.	CHANGE NO.	DESCRIPTION	DATE	APPROVED
C	5411086-00001	ORIGINATED	2-6-74	[illegible]
D	5411086-00002		3-11-74	Terrell Boren
E	5411086-00003		4-19-74	Terrell Boren
F	5411086-00004		5-10-74	Terrell Boren
G	5411086-00005		5-10-74	Terrell Boren
H	5411086-00006		5-28-74	Terrell Boren
J	5411086-00007		6-11-74	Terrell Boren
K	5411086-00008		7-17-74	Terrell Boren
L	5411086-00009		7-26-74	Terrell Boren

FIRST USED ON OPTION MODEL

ETCH BOARD REV. D

DEC NO.	EIA NO.	DEC NO.	EIA NO.

SEMICONDUCTOR CONVERSION CHART

DRN. J. Wenrich DATE 10-9-74
CHK'D. [illegible] DATE 10-[illegible]-74
ENG. Terrell Boren DATE 10/25/74
PROJ. ENG. Terrell Boren DATE 10/25/74
PROD. R. Peterson DATE 11/4/74
NEXT HIGHER ASSY
SCALE —
SHEET 1 OF 4

digital

TITLE PWR. LINE MONITOR/15V REG.

SIZE D | CODE CS | NUMBER 5411086-0-1 | REV. L

DIST.

DEC FORM NO. 080 1258

NOTES:

YA	QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO.
1	1	R29	RESISTOR 3.48K 1/4W 1%	1305114	55
1	1	R28	RESISTOR 5.62K 1/4W 1%	1305128	56
1	1	R27	RESISTOR 4.99K 1/4W 1%	1305324	57
0	1	R35	RESISTOR 24.9K 1/4W 1%	1305405	58
0	1	R24	RESISTOR 200 20% 62PR	1309150-10	59
1	1	R32	RESISTOR 18.2K 1/4W 1%	1309412	60
0	2	R5,R6	RESISTOR .2 5W 5% WW	1309884	61
0	1	Q7	TRANSISTOR MJE3055	1510555	62
4	6	Q2,Q3,Q5,Q6,Q18,Q19	TRANSISTOR MPSA05	1510705	63
0	2	Q4,Q9	TRANSISTOR MPS A55	1510706	64
0	1	Q8	TRANSISTOR 2N 4441	1505867	65
4	5	Q1,Q11,Q12,Q13,Q16	TRANSISTOR 2N 4250	1509142	66
4	4	Q14,Q15,Q17,Q18	TRANSISTOR 2N 5433	1511686	67
0	1	L1	INDUCTOR, 500 uh	1611868	68
1	1	T1	TRANSFORMER	1612026	69
0	1	E1	I.C. DEC 723	1910415	70
0	1		SCREW, PHM #4-40 X 7/16 LG.	9008012-1	71
0	1		SCREW. PHM #8-32 X 1/4 LG.	9008020-1	72
0	1		SCREW, PHM #6-32 X 7/8 LG.	9006027-1	73
0	1		KEP NUT #4-40	9008557	74
0	2		KEP NUT #10-32	9008585	75
2	2		WASHER, ITTLKWR #10	9006635	76
0	2		WASHER. FLAT	9006646	77
0	2	(W1)	SPLIT LUG	9006735	78
0	1		SPACER, 1/4AF X 1/2	9006861	79
4	4		CABLE TIE	9007880	80
2	2		TERMINAL	9007930	81
2	2		SCREW. PHM #10-32 X 1/4 LG.	9008007-1	82
0	2		TERMINAL	9008150	83
0	1		KEP NUT #6-32	9008185	84
0	A/R		COMPOUND. THERMAL JOINT	9009258	85
0	4		WASHER, THERMA FILM	9008424	86
0	2		WASHER. RING	9008440	87
0	1		FUSE HOLDER	9009141	88
1	1	R22	RESISTOR, 390, 2W 10%	1301880	89
0	1	W1	JUMPER	9009185	90
2	112		WIRE #18 STRANDED BLK	9107360-0-C	91
REF	REF		MODULE TEST PROCEDURE	A-SP-11/45-TA-2	92
1	1		WASHER, RING	9006713	93
1	1		.010 INCH SHIM	7413721-0-0	94
REF	REF		ENG. SPEC AND TEST PROC.	A-SP-5411086-0-3	95
0	1		INSULATOR, THERMA FILM	9009597	96
3/8	A/R	W2,W3	WIRE #22 BUS	9107560-01	97

FIRST USED ON OPTION MODEL

PARTS LIST

ETCH BOARD REV D

IC TYPE	GND	+ 5V

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE

IC PIN LOCATIONS

REV	CHANGE NO	CHK	DEC NO.	EIA NO.	DEC NO.	EIA NO.

REVISIONS

SEMICONDUCTOR CONVERSION CHART

DRN. J. Vincent DATE 10-9-74
CHK'D. DATE 10/21/74
ENG. Newell Boss DATE 10/21/74
PROJ. ENG. Newell Boss DATE 10/21/74
PROD. R.K. Eden DATE 11/4/74
NEXT HIGHER ASSY
SCALE
SHEET 2 OF 4.

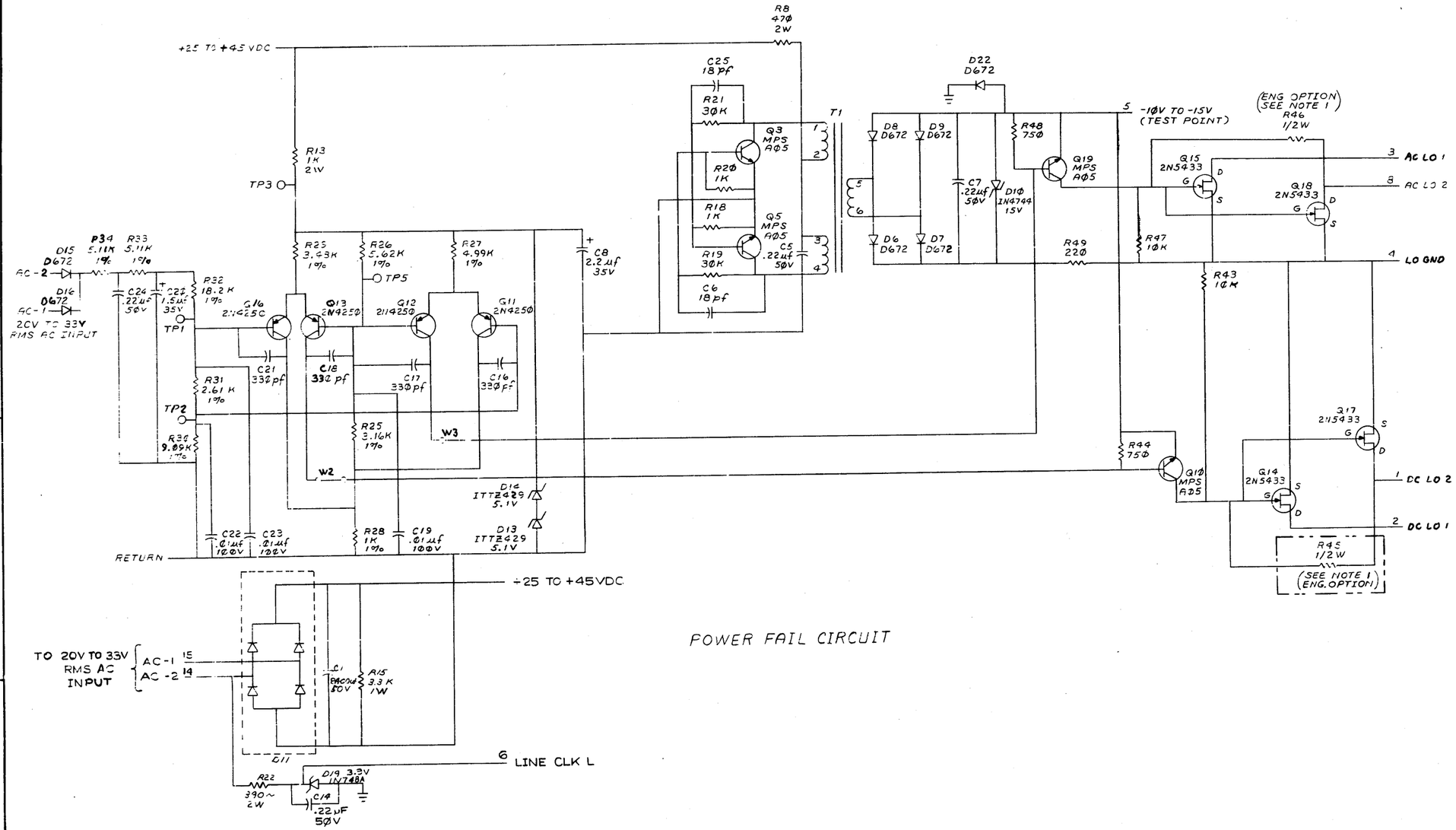
digital EQUIPMENT CORPORATION

TITLE PWR. LINE MONITOR/15V REG.

SIZE D | CODE DCS | NUMBER 5411086-0-1 | REV. L

DIST.

DCS 5411086-0-1 L



POWER FAIL CIRCUIT

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
PWR. LINE MONITOR/15V REG.	D	CS	5411086-0-1	L
SCALE —	SHEET 3 OF 4	DIST.		

+25 TO +45 VDC

F1

25 - 45 VDC

L1 500uH

C3 .01uf

R14 220 2W, 10%

D12 IN3880

Q7 MJE 3055

R9 27 1/2W

Q4 MPS A55

R12 220

R8 2.2K 1W, 10%

R11 680 2W

TP4

+15V

4.28V

D4 IN4004

R35 24.9K 1%

D3 MR1033B

D5 IN2970A 6.8V

9 +15VDC ± 5% @ 4A MAX (SEE NOTE 2)

7 +8VDC ± 10% @ 1A MAX (SEE NOTE 2)

R91 100 1W

C12 2.2uf 35V

D17 IN4794 15V ± 12%

1/2 723C E1

REF

R36 511 1%

P24 200 4.28V

R17 1M 1%

P39 900 1%

C15 2.7uf 35V

R16 22K 1%

1/2 723C E1

COMP

R23 47

G6 MPS A05

R7 100

D1 D672

C2 56pf

R2 750

D2 IN748A 3.9V

R3 3.3K

Q1 2N4250

R1 1.5K 1/2W

R42 10K 1%

W1 (SEE NOTE 3)

R38 680

R37 10

G9 MPS A55

Q8 2N4441

C13 .01uf

R40 100

D18 1N1967A 18V

C10 500uf 25V

C4 50uf 50V

C9 50uf 50V

C11 50uf 50V

SEE NOTE #1

11 GND
12 GND
13 GND

Q2 MPS A05

R4 220

R6 .2 5W

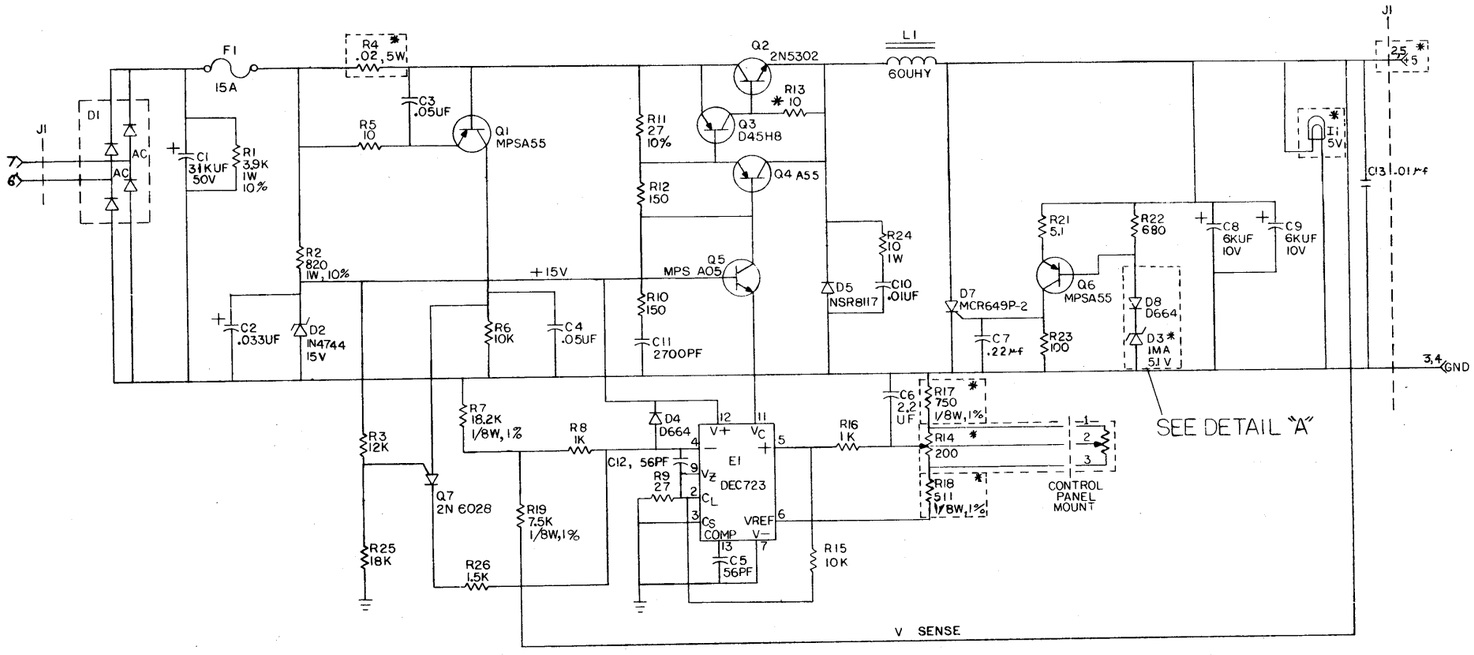
R5 .2 5W

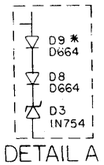
RETURN

15V REGULATOR
(SEE NOTE #4)

REVISIONS:
CHK | CHANGE NO. | REV

TITLE	SIZE	CODE	NUMBER	REV.
PWR. LINE MONITOR/15V REG.	D	CS	5411086-0-1	L
SCALE —	SHEET 1 OF 4		DIST.	





DETAIL A
FOR YA VARIATION ONLY

*FUSIBLE RESISTOR

[*] FOR YA VARIATION COMPONENT VALUES ARE AS FOLLOWS:
R4 - .06 5W
R14 - 1K 10 TURN
R17 - 300 1/8W 1%
R19 - 150 1/4W 5%
D3 - IN754
I1 - 15V
J1-2,5 - +20-8.0V

* D9 - D664 ADDED FOR YA VARIATION ONLY

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
		PARTS LIST		

ETCH BOARD REV F H

DEC NO.	EIA NO.
IN964A	SAME
D664	IN3606
MCR649P-2	
IN751A	SAME
IN4744	SAME
NSR8117	
2N6028	

SEMICONDUCTOR CONVERSION CHART

DEC NO.	EIA NO.
MPSA55	
2N5302	
D45H8	
MPSA05	

NEXT HIGHER ASSY

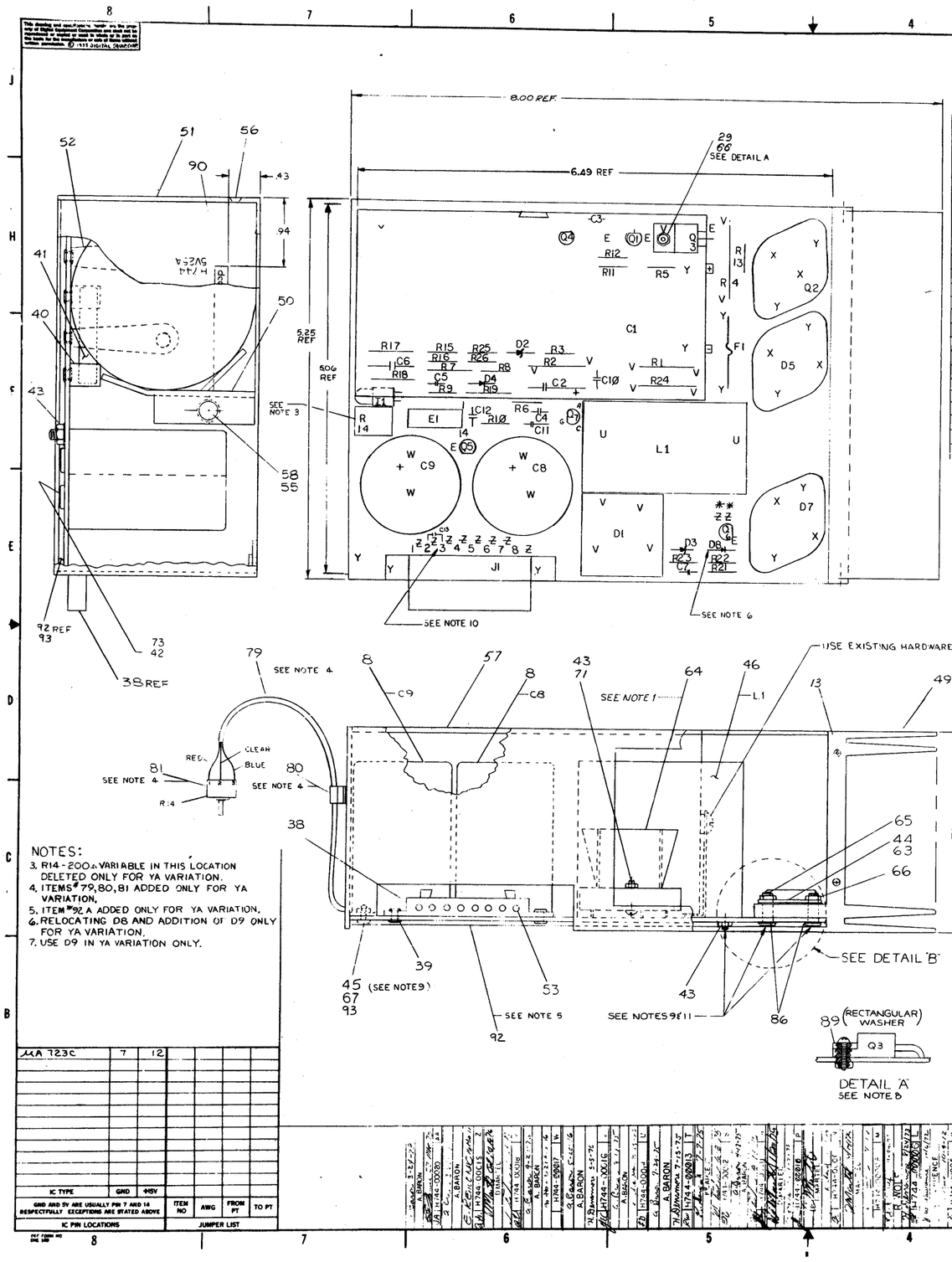
DRN. Roger V. Desjardins DATE 11-2-71
CHK'D. Warren Hacker DATE 1-3-72
ENG. DATE 1/24/72
PROJ. MGR. DATE 1/27/72
PROG. DATE 1/27/72
SCALE
SHEET 1 OF 1

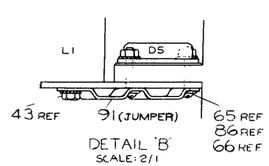
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: 5V REGULATOR

SIZE D | CODE CS | NUMBER H744-0-1 | REV Y
DIST.

REV	CHANGE NO.	CHK	DESCRIPTION	DRAWN	DATE
Y	H744-00018		A. BARON	A. BARON	6-30-76
W	H744-00016		A. BARON	A. BARON	5-4-76
V	H744-00015		A. BARON	A. BARON	5-28-76
U	H744-00014		A. BARON	A. BARON	2-3-76
T	H744-00013		A. BARON	A. BARON	9-18-75
S	H744-00012		A. BARON	A. BARON	9-4-75
R	H744-00011		A. BARON	A. BARON	8-14-75
P	H744-00010		D. MARTEL	D. MARTEL	1-7-75
N	H744-00009		D. MARTEL	D. MARTEL	11-15-74
M	H744-00008		D. MARTEL	D. MARTEL	9-11-74
L	H744-00006		R. WOLF	R. WOLF	8-26-73
K	H744-00005		G. POTTER	G. POTTER	8-3-73
J	H744-00004		G. POTTER	G. POTTER	5-11-72
H	H744-00003		G. POTTER	G. POTTER	2-22-72
F	H744-00002		G. POTTER	G. POTTER	1-14-72
E	H744-00001		G. POTTER	G. POTTER	1-14-72





DETAIL 'B'
SCALE: 2/1

DETAIL 'A'
SEE NOTE 8

NOTES:
3. R14 - 200Ω VARIABLE IN THIS LOCATION DELETED ONLY FOR YA VARIATION.
4. ITEMS #79,80,81 ADDED ONLY FOR YA VARIATION.
5. ITEM #92 A ADDED ONLY FOR YA VARIATION.
6. RELOCATING D8 AND ADDITION OF D9 ONLY FOR YA VARIATION.
7. USE D9 IN YA VARIATION ONLY.

NOTES:
1. APPLY ITEM #63 (COMPOUND) BETWEEN TRANSISTOR (Q2), DIODES (D5, D7) AND ITEM #44 (WASHER) ALSO BETWEEN ITEM #44 (WASHER) AND HEAT SINK (ITEM #49). ALSO APPLY ITEM #63 (COMPOUND) BETWEEN ITEM #9 (DIODE BRIDGE) AND ITEM #64 (HEAT SINK BRIDGE).

NOTES CONT:

NOTE 8:
(1) Q3 SCREW HEAD SHOULD BE ON TOP OF FLAT RECTANGULAR WASHER AS SHOWN. APPLY 6 INCH LBS. OF TORQUE WHEN SECURING Q3 TO CKT. BOARD BEFORE SOLDERING.

NOTE 9: TORQUE APPLICATION
(1) APPLY 12 INCH LBS. OF TORQUE TO THE SCREWHEAD OF #4 HARDWARE EXCEPT Q3.
(2) APPLY 16 INCH LBS. OF TORQUE TO #6 HARDWARE ON L1.
(3) APPLY 16 INCH LBS. OF TORQUE TO ALL #6 AND #10 HARDWARE EXCEPT ON L1.
(4) ALL HARDWARE TO BE TORQUED BEFORE SOLDERING.

NOTE 10
INSERT C13 INTO ETCH PAD HOLES CONNECTED TO J1 TERMINALS, 2-3.

NOTE 11:
MIN TORQUE REQUIRED FOR QC INSPECTION:
8 INCH LBS FOR #4 HARDWARE;
12 INCH LBS FOR #6 AND #10 HARDWARE

*SEE NOTE 7

QTY	QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	1	R22	RES 680 1/4W 5%	1301424	69
1	1		PACKING INSTRUCTIONS	API 3700074-0-0	70
1	1		SCR, PHL PAN HD #6-32 x 5/8 LG	9006025-1	71
1	Ø	I1	15 VOLT LAMP	1209169	72
4	4		LOCKWASHER #10 INT	9006035	73
A/R	A/R		PERMABOND 101 CEMENT	9009157	74
A/R	A/R		TFE TUBING	9107302-11	75
A/R	A/R		TFE TUBING	9107278-11	76
1	1	Q4	TRANSISTOR 2N4235	1510555	77
A/R	A/R		SHRINK SLEEVING	9107452-09	78
1	Ø	(2 IN)	WIRE, MICRODOT	1700014	79
1	Ø		CLAMP, CABLE	9007079	80
1	Ø	R14	POT, 10 TURN, 1KΩ	1309532-04	81
1	Ø	R17	RES, 300Ω 1/4W 5%	1301425	82
1	Ø	R18	RES, 150Ω 1/4W 5%	1300250	83
1	Ø	R4	RES, Ø6Ω 5W 3%	1310876-02	84
1	Ø	D3	DIODE ZENER 1N754	1109991	85
6	6	-	WASHER, INT TOOTH #4	9006632	86
1	1	C7	CAP .22μF 50V	1010274	87
1	1	R13	RES 10 1/4W 5% FUSIBLE	1312496	88
1	1	-	WASHER, RECTANGULAR	9009769	89
1	1	-	DECAL (H744)	ADC7416945-1-0	90
1	1	-	JUMPER	1214074	91
1	Ø	-	COVER, BOTTOM	7419952	92
2	Ø	-	WASHER, FIBER	9008848	93

744-7A	744-8B	QTY	QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	1			I1	5 VOLT LAMP	12-09219-1	68
2	2				L WASHER #4	9006632	67
7	7				NUT KEPS #4-40	9006597	66
6	6				SCR PHL PAN HD #4-40 x 3/16 LG	9008033-1	65
1	1				HEAT SINK BRIDGE	1210907	64
A/R	A/R				COMPOUND THERMAL JOINT	9008268	63
1	1			R26	RESISTOR 1.5K 1/4W 5%	1300381	62
1	1			R19	RESISTOR 7.5K 1/8W 1%	1305322	61
1	1			R5	RESISTOR 1ΕΚ 1/4W 5%	1300488	60
1	1			Q7	TRANSISTOR, UNIJUNCTION 2N6028	1510877	59
1	1				SCR, PHL PAN HD #6-32 x 1/4 LG	9006020-1	58
1	1				COVER	E-MD-5309720-03	57
1	1				SCR, PHL FLT HD #6-32 x 3/16 LG	9008220-2	56
1	1				WASHER, LOCK #6	9006633	55
1	1				SCR, PHL FLT HD #6-32 x 1/4 LG	9006020-2	54
1	1				CONTACT FEMALE	1209456	53
2	2				STRAP, CAPACITOR	C-MD-5309759-04	52
1	1				BRACKET, REGULATOR	D-IA-5309756-01	51
1	1				HOLDER, CAPACITOR 2.5	C-IA-12388-0-0	50
1	1				HEAT SINK REGULATOR	D-PS-1210737-0-0	49
2	2			C5, C12	CAP 56 PF	1000012	48
1	1			R24	RESISTOR 10 1W	1300171	47
1	1			L1	REACTOR 60 MHY MMC4347	1610850	46
2	2				SCR, PHL PAN HD #4-40 1/4 LG	9008301-1	45
3	3				WASHER, INSULATOR	9006721	44
3	3				NUT, KEPS #6-32	9008185	43
4	4				SCR #10-32 x 31 SLOTTED PAN HD	9009659-01	42
1	1			F1	FUSE 15 AMP	1213237-01	41
2	2				FUSE CLIP	9007203	40
6	6				EYELET GS-4-5	9009000	39
1	1			J1	MATE-N-LOK CONN, 8 PIN	1209340	38
1	1			E1	INTEGRATED CIRCUIT DEC 723C	1910415	37
1	1			Q5	TRANSISTOR A05	1510705	36
1	1			Q3	TRANSISTOR D45H8	1510708-1	35
3	3			Q1, Q6, Q4	TRANSISTOR MPSA55 MOT	1510706	34
1	1			Q2	TRANSISTOR 2N6302	1510196	33
Ø	1			R14	RES VARIABLE 200	1310852	32
1	1			R21	RES 5.1 1/4W 5%	1309422	31
1	1			R23	RES 100 1/4W 5%	1300229	30
1	1				SCR, PPH #4-40 x 3/8	9006011-1	29
1	1			R11	RES 27 1/4W 10%	1301420	28
Ø	1			R17	RES 750 1/8W 1%	1302955	27
1	1			R9	RES 27 1/4W 5%	1301522	26
1	1			D7	RES 18.2K 1/8W 1%	1309412	25
2	2			R8, R16	RES 1K 1/4W 5%	1300365	24
Ø	1			R18	RES 511 1/8W 1%	1302411	23
1	1			R25	RES 18K 1/4W 5%	1302465	22
2	2			R6, R15	RES 10K 1/4W 5%	1300479	21
Ø	1			R4	RES .02 5W 3%	1310876	20
1	1			R2	RES 820 1W 10%	1300358	19
1	1			R1	RES 3.9K 1W 10%	1302927	18
1	1			R5	RES 10 1/4W 5%	1301317	17
2	2			R12, R10	RES 150 1/4W 5%	1300250	16
Ø	1			D3	DIODE ZENER 1 MA. 5.1V	1110925	15
1	1			D7	SCR MCR 6499-2	1109465	14
4	4				SCR, PFH #4 x 5/16 LG SELF TAP	9009142	13
1	1			D5	DIODE PWR NSP 8117	1110715	12
3	2			D4, D8 D9*	DIODE PWR D664	1100114	11
1	1			D2	DIODE ZENER IN4744	11C5648	10
1	1			D1	DIODE BRIDGE	1110714	9
2	2			C8, C9	CAP 6K μF 10V	1010704	8
1	1			C1	CAP 31 K μF 50V	1010858	7
2	2			C4, C3	CAP .033 μF 25V	1001774	6
1	1			C2	CAP .033 μF 100V 10%	1000050	5
1	1			C11	CAP 2700PF 100V 5% DM	1001637	4
2	2			C10, C13	CAP .01 μF 100V 20% DISC	1001610	3
1	1			C6	CAP 2.2 μF, 20V, 10%	1002627	2
1	1				ETCHED CIRCUIT BOARD	5009725	1
					ASSY, DRILLING HOLE LAYOUT	D-AH-H744-B-5	REF
					X-Y COORDINATE HOLE LOCATION	K-CO-H744-Ø-4	REF
					MODULE ECO HISTORY	D-MH-H744-Ø-6	REF
					CIRCUIT SCHEMATIC	D-S-H744-Ø-1	REF

PARTS LIST

IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTFULLY. EXCEPTIONS ARE STATED ABOVE		

IC PIN LOCATIONS

ITEM NO	AWG	FROM PT	TO PT

JUMPER LIST

μA 723C	7	12

DEC NO.	EIA NO.	DEC NO.	EIA NO.
2N697	1N3606		
1N4739			

SEMICONDUCTOR CONVERSION CHART

FIRST USED ON OPT/MOD D-UA-H742A-Ø-Ø

ETCH BOARD REV H

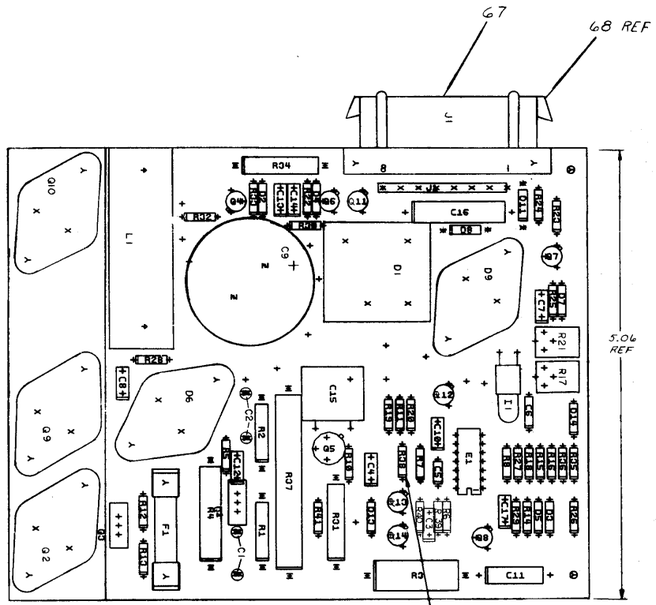
DRN	DATE
R. WEBB	7/11/73
CHK'D	DATE
[illegible]	7-24-73
PROJ. ENGR	DATE
[illegible]	7-24-73
MFG	DATE
[illegible]	7-24-73

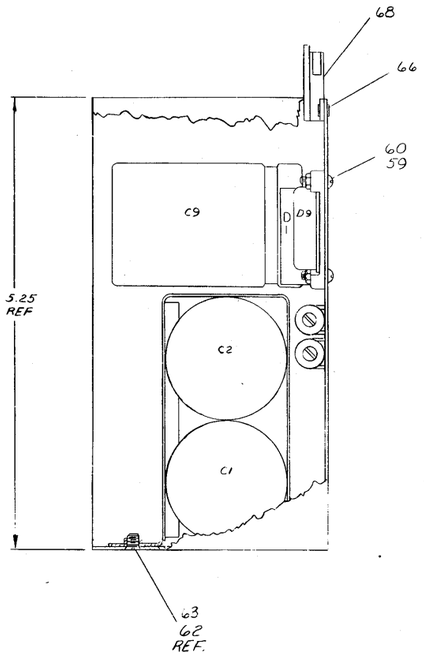
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: 5V REGULATOR

SCALE 2/1 SHEET 1 OF 1

CODE IDENT NO. 24355 NUMBER E UA H744-Ø-Ø REV. AA DIST.





NOTES:

1. APPLY ITEM # 71 (COMPOUND) ON BOTH SIDES OF ITEM #72 (INSULATOR WASHER) FOR Q2, Q9, Q10. ALSO APPLY BETWEEN ITEM # 11 (DIODE BRIDGE G1). AND ITEM # 42 (HEAT SINK, BRIDGE RECT.)
2. UNLESS OTHERWISE INDICATED: RESISTORS ARE 1/4 W, 5%. CAPACITORS ARE 100V, ±5%.
3. ADD INSULATION (9107256-11) TO BOTH LEADS OF R38 TO AVOID SHORT TO ETCH.
4. APPLY ITEM #71 (COMPOUND) ON BOTH SIDES OF ITEM #94 (MICA WASHER) FOR D6.

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1		WASHER, MICA	9009863	94
1	C7	CAP .22 uF 50V	1010274	93
1	Q1	TRANSISTOR 2N4920-1	1509605-1	92
1	R13	RES 27Ω 1/4W 5% FUSIBLE	1312490-01	91
AR		INSULATION	9107256-11	90
1	R39	RES 220 1/4W 5%	1300271	89
1	R37	RES. 1.1 10W 1%	1309108	88
1	R38	RES.1K 1% THERMISTOR	1310071	87
1	C16	CAP. 100uF 25V	1002781	86
1	Q10	TRANSISTOR MJ900	1510712	85
1	Q9	TRANSISTOR MJ3000	1511349	84
1	C13	CAP. 100 PF 100V ±5% DM	1000416	83
				82
2	Q1, Q14	TRANSISTOR MPS A03	1510705	81
1	D2	DIODE D003	1100100	80
2	(UNDER Q1 ETC)	TRANSIPAD	9007200	79
1	R31	RES .15Ω 2W 10%	1310147	78
2	C14, C17	CAP. 1000 MF 100V 75% DM	1000002	77
1	R22	RES 383 Ω 1/8W 1%	1305123	76
2	R35, R8	RES 1.78K 1/8W 1%	1302612	75
1	R11	RES 15K 1/2W 5%	1300496	74
1	R20	RES 470Ω 1/4W 5%	1300316	73
				72
3		WASHER INSULATOR	9006721	71
AR		COMPOUND, THERMAL	9008268	70
AR		WIRE, #18AWG, STRD, 1 PVC INS (BLK)	9107360-00	69
AR		WIRE #18AWG, STRD, 1 PVC INS (RED)	9107360-22	68
1	J1	MATE-N-LOCK CONN 8 PIN	1209348	68
8		PIN, SOCKET, MATE-N-LOCK	1209406	67
4		EYELET (S-4-)	9008732	66
1		HEAT SINK, BRIDGE RECTIFIER	1210907	65
1		SCR. PHL PAN HD 6-32 X ⅜	9000024-1	64
5		KEPS NUT 6-32 SS	9008185	63
2		SCR PHL FLAT HD 6-32 X 5/16	9000021-2	62
6		~~SCR PHL FLAT HD 4-40 X 1/4~~	9000059-2	61
6		SCR PHL PAN HD 4-40 X 3/8	9000011-1	60
10		KEPS NUT 4-40	9008257	59
8		SCR PHL PAN HD 4-40 X ¼	9000013-1	58
4		TERMINAL SOLDERLESS, #10	9007930	57
1		~~COVER, COMP~~	~~C-MD-5300758-0-0~~	56
1		1.5 CAP. BRKT	C-1A-5300758-0-0	55
1		HEAT SINK, REGULATOR	D-PS-1210737-0-0	54
1		BRACKET, REG	D-1A-5300758-4-0	53
4		SPLIT LUG	9008735	52
1	Q8	TRANSISTOR 2N6028	15-10877	51
2		FUSE CLIP	9007203	50
1	F1	FUSE 10 AMP	4.213.237-00	49
1	L1	REACTOR 170 MHY	15-10963	48
1	E1	INTEGRATED CIRCUIT 723	19-10415	47
6	Q1,Q6,Q11,Q12, Q13	TRANSISTOR MPS A55	15-10706	46
4		SCR PHL FLAT HD #4-40 SELF TAPPING	9008142-02	45
1	D5	TRANSISTOR DEC2500	15-03209	44
1	Q2	TRANSISTOR 2N6038	15-10963	43
1	Q3	TRANSISTOR 2N6491	1513704	42
2	R17 R21	RES VARIABLE 200Ω ±20% POT	13-10852	41
2	R23, R36	RES 5.1 1/2 W 5%	13-03422	40
1	R18	RES 257 1/8W 1%	1304857	39
				38
2	R14, R5	RES ½W 5% 27	13-01522	37
	R10	RES 150 ½W 5%	13-00250	36
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-H754-0-5	35
2	R7, R40	RES. 2K 1/4W 5%	1302368	34
2	R6, R19	RES 12K ½W 5%	13-00488	33
6	R15, R25, R30, R24, R35, R41	RES 100 ½W 5%	13-00228	32
1	R12	RES 68 Ω 1/4W 5% FUSIBLE	1312496-02	31
				30
1	R27	RES 10K, ⅛W 1%	1303312	29
1	R32	RES 39K 1/8W 5%	13-00444	28
1	R16,	RES 287Ω 1/8W 1%	13-05124	27
1	R29	RES. 10K ½W 5%	13-02465	26
1	C11	CAP. 2.2 uF 35V 10% S. TANT	10-02431	25
1	R4	RES 5W 31.03 Ω	1310876-1	24
1	R3	RES 1.5K 5W 5%	13-01897	23
1	R34	RES .47 2W 5%	13-05258	22
1	R26	RES 1.5K ½W 5%	13-00391	21
2	R1, R2	RES 3.3K 1W 10%	13-02927	20
1	R28	RES 10Ω, 1/4W, 5%	1301317	19
2	D11, D8	DIODE IN5624	1110420	18
				17
1	D14	DIODE 752A ZENER	1102808	16
1	D9	DIODE MCR 648 P-2	11-03465	15
1	D7	DIODE IN3070, 24V	11-10856	14
1	D6	DIODE, 20 AMP FAST REC	11-10715	13
1	D3	DIODE IN4744 ZENER, 15V	11-09648	12
1	D1	DIODE MDS 3514	11-10714	11
3	D5, D13 D4	DIODE D664	11-00114	10
1	C15	CAP .1UF 100V 20% DISC	1000030	9
1	C9	CAP 2.2M UF 30V 6% AL. EL.	10-10859	8
4	C3, C8, C4, C12,	CAP .01UF 50V 20% DISC.	10-01610-01	7
1	C6	CAP 2700PF 100V 5% DM	10-01637	6
1	C5	CAP 56PF 100V 5% DM	10-00912	5
1	I1	LAMP 28V, 40 MA	12-11239	4
1	C12	CAP .05UF 25V DISC	10-01774	3
2	C1, C2	CAP 5.85KUF 50V 53% AL.EL.	10-11363	2
1		ETCHED CIRCUIT BOARD	5010531	1
		MODULE ECO HISTORY	B-MH-H754-0-6	REF
		X-Y COORDINATE HOLE LOCATION	K-CO-H754-0-4	REF

PARTS LIST

ETCH BOARD REV J

D664 IN3606

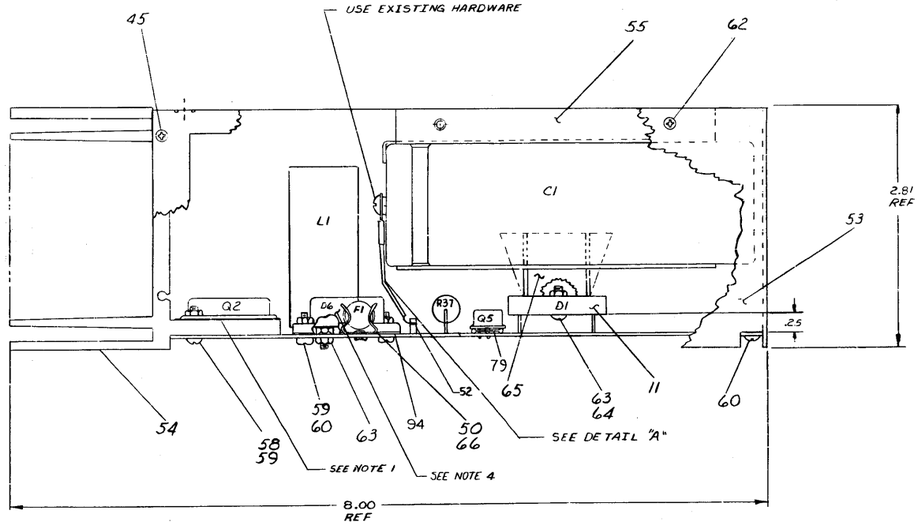
	DATE
DRN V. Bianchi	5-9-72
CHKD J. Hall	5-12-72
ENG. [illegible]	5-22-72
PROJ. ENG. [illegible]	5-22-72
PROJ. LDR. [illegible]	5-22-72
NEXT HIGHER ASSY	

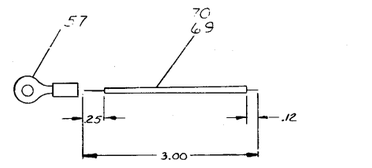
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: + 20 VOLT REGULATOR

SIZE/CODE E | NUMBER CS H754-0-1 | REV. U

SCALE 1 = 1 | SHEET 1 OF 2 | DIST.





DETAIL "A"
SCALE : NONE
RED WIRE GOES TO POSITIVE TERMINAL
BLK WIRE GOES TO NEGATIVE TERMINAL

DELETED COMPONENTS	
RESISTORS	R9
DIODES	D10, D12

IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE		

IC PIN LOCATIONS

ITEM NO.	AWG	FROM PT	TO PT

JUMPER LIST

DEC NO.	ECN NO.	DEC NO.	ECN NO.

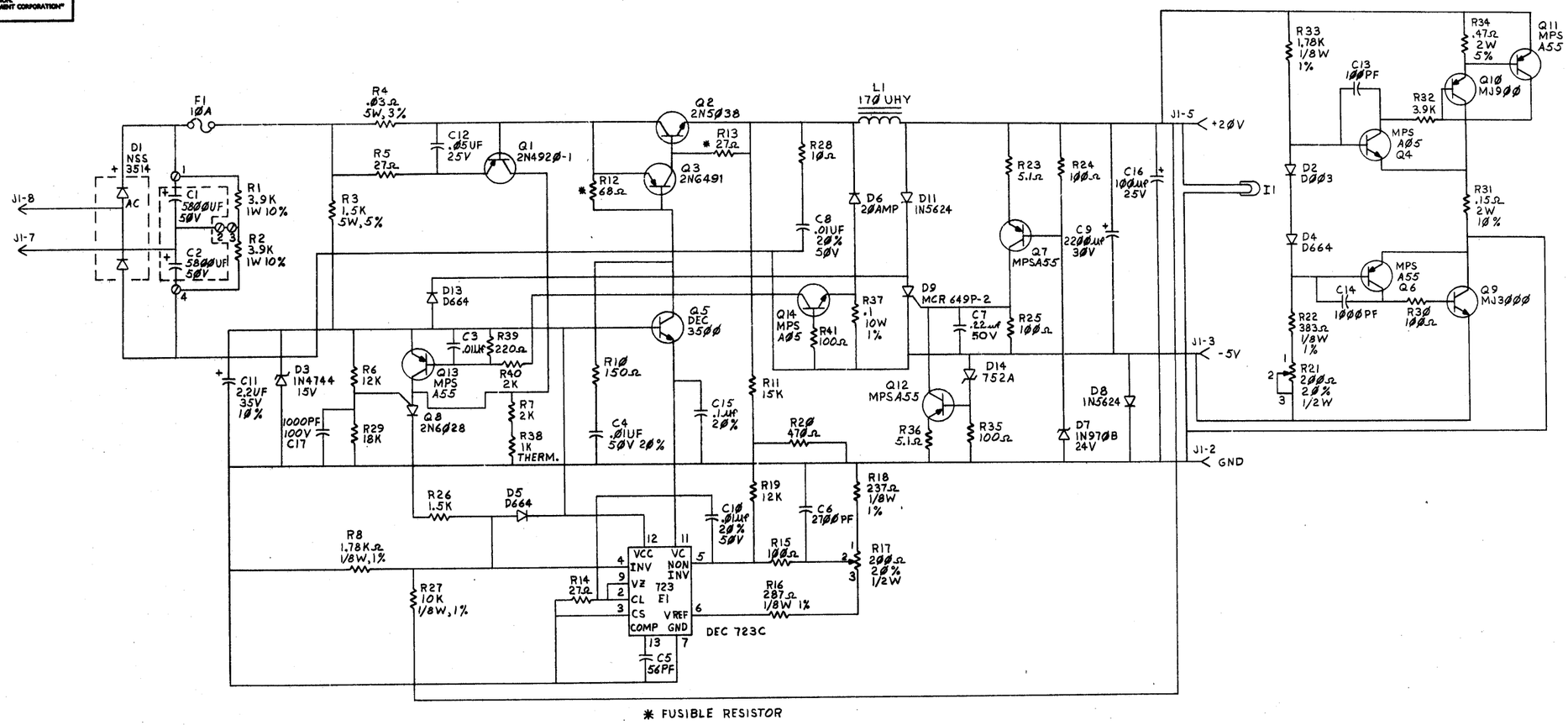
SEMICONDUCTOR CONVERSION CHART

REV	CHANGE NO.	
B	1754-00001	CHKD
C	1754-00002	ENG
D	1754-00003	PROJ ENG
E	1754-00004	PROJ LDR
F	1754-00005	
G	1754-00006	
H	1754-00007	
J	1754-00008	
K	1754-00009	
L	1754-00010	
M	1754-00011	
N	1754-00012	
P	1754-00013	
R	1754-00014	
S	1754-00015	
T	1754-00016	
U	1754-00017	

REVISIONS

DEC FORM NO. DNE 106

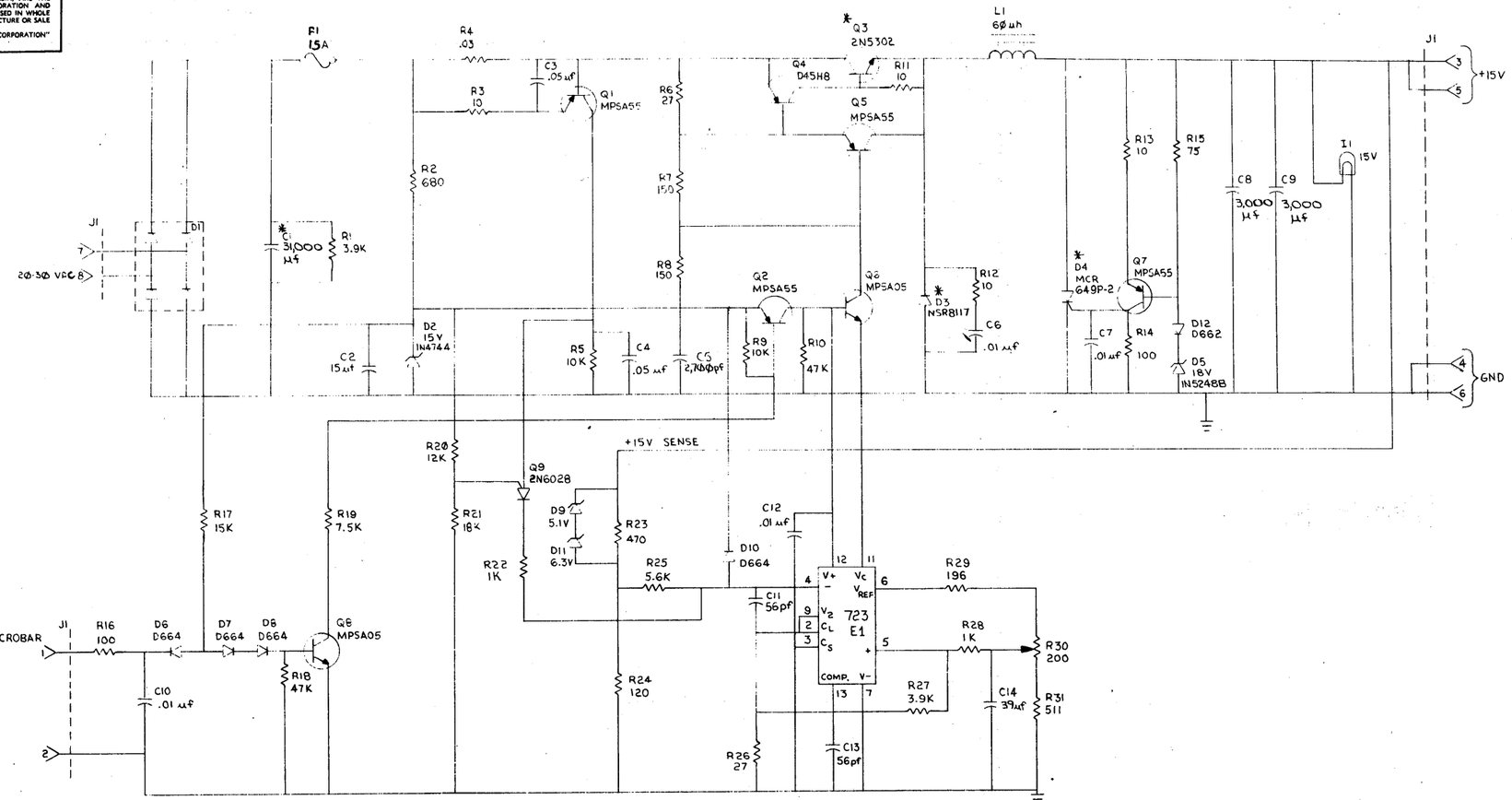
8 7 6 5 4 3 2 1



* FUSIBLE RESISTOR

DRN M. BISSONNETTE	6-29-72	FIRST USED ON H754	digital
CHK'D R. VOWLES	12-17-72	TITLE +20 VOLT REGULATOR	
ENG. R. BURTON	5-7-73		
PROJ. ENG. R. BURTON	5-7-73		
PROD. L. BAPTISTE	5-9-73		
NEXT HIGHER ASSY.		SIZE D CODE CS NUMBER H754-0-1 REV. U	
SCALE			
SHEET 2 OF 2		DIST.	

USED ON H754-0-1 REV. U



NOTE:
* INDICATES COMPONENTS (C1, Q3, D3, D4) INSTALLED AT NEXT LEVEL ASSY (E-UA-H77Ø-Ø-Ø).

REVISIONS	REV.	CHANGE NO.	CHK

DEC FORM NO. DRD 102-C

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
KLIØ		PARTS LIST		

DIMENSIONAL TOLERANCE
DIMENSIONS ARE MILLIMETERS / INCHES
UNLESS OTHERWISE SPECIFIED

MILLIMETERS	INCHES	ANGLES
X.XX = ±0.10	.XXX = ±.005	±0° 30'
X.X = ±0.5	.XX = ±.02	
X = ±2.	.X = ±.1	

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL

FINISH

		DATE
DRN.	K. Ramsche	10/14/74
CHK'D.	R. Dietz	10/14/74
ENG.	Ron Johnson	10/31/74
PROJ. ENG.	Ron Johnson	10/31/74
PROD.	P. Rezek	10/31/74

NEXT HIGHER ASSY. E-UA-H77Ø-Ø-Ø

SCALE

SHEET 1 OF 1

digital

TITLE
+15V REGULATOR

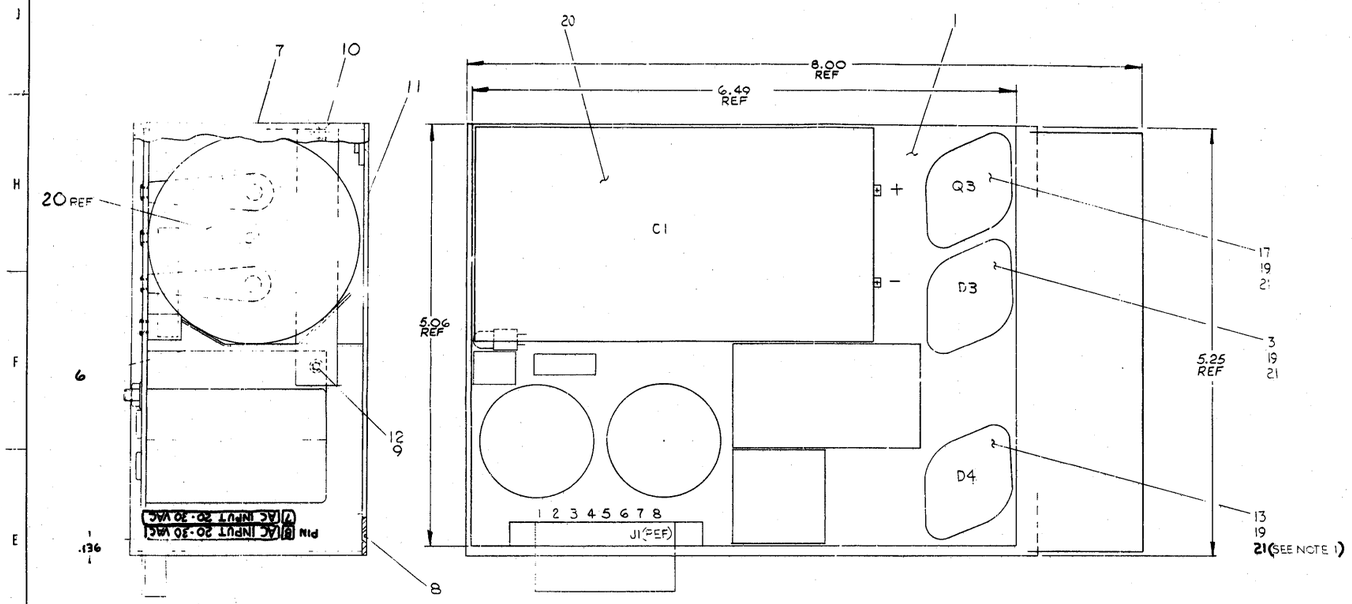
SIZE	CODE	NUMBER	REV.
D	CS	5411207-0-1	

DIST.

DATA CODE DCS NUMBER 5411207-0-1 REV.

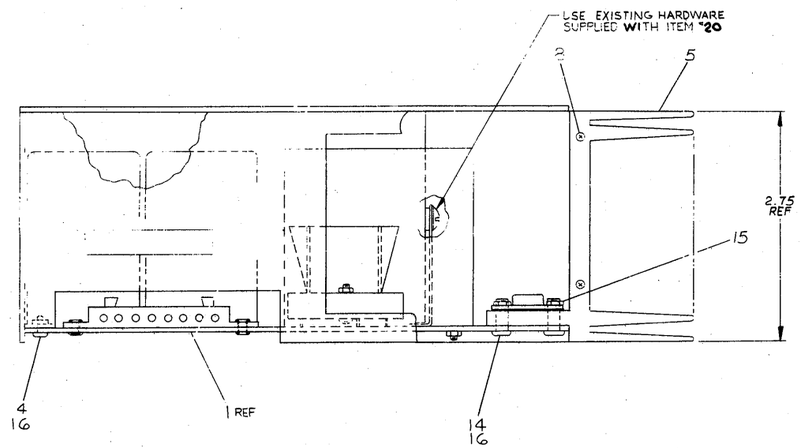
DO NOT SCALE DRAWING

NOTES:
1. APPLY ITEM "21 THERMAL COMPOUND TO BOTH SIDES OF ITEM "19 WASHERS USED WITH ITEM "17 TRANSISTOR ITEM "13 DIODE AND ITEM "3 DIODE.
2. HAND SOLDER D4 D3 & C3 AFTER ASSY TO HEAT SINK : BOARD (ITEM 1)



23

24



CAUTION - OFF SHEET PARTS LIST EXISTS A-PL-H77Ø-Ø-Ø

FIRST USED ON OPTION/MODEL: XL13	QTY.	DESCRIPTION	PART NO.	ITEM NO.
		PARTS LIST		

DIMENSIONAL TOLERANCE — DIMENSIONS ARE MILLIMETERS / INCHES — UNLESS OTHERWISE SPECIFIED

MILLIMETERS	INCHES	ANGLES
X.XX ±0.10	XXX ±.006	90° 30'
X.X ±0.5	XX ±.02	
X ±1.	X ±.1	

THIRD ANGLE PROJECTION — REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL: SEE PARTS LIST — FINISH

DRN. [illegible] DATE 3-20-76
CHK'D. DATE
ENG. DATE
PROJ. ENG. DATE
PROD. DATE
NEXT HIGHER ASSY. E-UA-H77Ø-Ø-Ø
SCALE NONE
SHEET OF

digital

+15V REGULATOR

SIZE E CODE 00081 NUMBER UA H77Ø-Ø-Ø REV. C
DIST.

REV. C
ASSEMBLY NO. UA H77Ø-Ø-Ø
MFR CODE 00081
B

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY V. Souza	CHECKED V. Souza	SECTION
DATE 8/28/74	DATE 8/30/74	
ENG	PROD	ISSUED SECT.
DATE	DATE 9-16-74	

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
1	D-CS-5411207-0-1	+15V REGULATOR	REF
~~2~~	~~9009142-2~~	~~SCR, PHL FL HD #4-40 x .31, SELF TAPPING~~	~~4~~
3	1110715	DIODE NFR8117	1
4	9008301-1	SCR, PHL PAN HD #4-40 x .25	2
5	D-PS-1210737-0-0	HEAT SINK REGULATOR	1
6	C-IA 7412388 -0-0	HOLDER, CAPACITOR 2.5	1
7	D-IA-5309756-09	BRACKET, REGULATOR	1
8	9006010-2	SCR, PHL FLT HD #4-40 X .31	8
9	9006633	WASHER, LOCK #6	1
10	9006020-2	SCR, PHL FLT HD #6-32 x .25	1
11	C-MD-5309760-0-0	COVER	1
12	9006020-1	SCR, PHL PAN HD #6-32 x .25	1
13	1109465	DIODE MCR649P-2	1
14	9008033-1	SCR, PHL PAN HD #4-40 x .56	6
15	9006557	NUT, KEPS #4-40	6
16	9006632	WASHER, INT TOOTH #4	8
17	1510196	TRANSISTOR 2N5302	1
18	A-PI-3700074-0-0	PACKAGING INSTRUCTIONS	1
19	9006721	INSULATOR, WASHER	3
20	1010858	CAP 31,000 uf 50V	1
21	9008268	H.S. COMPOUND	1oz
22	D-UA-5411207-0-0	+15V REGULATOR	1

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
+15V REGULATOR	E-UA-H77Ø-Ø-Ø	A	PL	H77Ø-Ø-Ø	C	H77Ø-00003
	SHEET 1 OF 2	DIST.				

DEC FORM DEC 16 (325) 1031 N870
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY V. SOUZA	CHECKED V. SOUZA	SECTION
DATE 8-23-74	DATE 8-30-74	
ENG R. MELANSON	PROD D. REGEK	ISSUED SECT.
DATE 9-6-74	DATE 9-16-74	

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
23	A DC 7416945-0-7	DECAL (H770)	1
24	9009254	MANUFACTURING I.D. LABEL	1

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
+15V REGULATOR	E UA H77Ø-Ø Ø	A	PL	H77Ø-Ø-Ø	C	
	SHEET 2 OF 2	DIST.				

DEC FORM DEC 16 (325) 1031 N870
DRA 110

NOTES:

1. FOR DRAWING DIRECTORY REFER TO B DD 5411207 0
2. COMPONENTS (C1,Q3,D3,D4) INSTALLED AT NEXT LEVEL ASSY (E UA H770 0 0)

QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
1	E1	IC DEC 723	1910415	55
1 OZ		COMPOUND THERMAL JOINT	9006268	56
1		SCR PHL HD PAN #6-32 X .62	9006025-1	57
3		NUT KEP #6-32	9008185	58
1		SCR PHL HD PAN #4-40 X .31	9006010-1	59
1		NUT KEP #4-40	9006557	60
REF		CAP 31,000 µF 50V	1010658	

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1		ETCH CIRCUIT BOARD	50112206	1
REF	Q3	TRANSISTOR 2N5302	1510196	2
REF	D3	DIODE NFR8117	1110715	3
REF	D4	DIODE MCR649P-2	1109465	4
2	C11 C13	CAP 56pf 100V	1000012	5
1	C14	CAP 39µF 10V ±0 %	1000076	6
4	C6,C7 C10,C12	CAP 10nF 100V 20%	1001610-00	7
1	C5	CAP 2,700pf 100V 5%	1001637	8
2	C3 C4	CAP .05uf 25V	1001774	9
1	C2	CAP 15uf 20V 10%	1004812	10
2	C8 C9	CAP 3,000 µf 25V	1010703	11
2		FUSE CLIP	9007203	12
1	D12	DIODE D662	1100113	13
4	D6 D7,D8,D10	DIODE D664	1100114	14
1	D2	DIODE IN4744 15V ZENER	1105648	15
2		STRAP CAPACITOR	C-MD-5309759-0 0	16
1	D9	DIODE 5 1V 2% ZENER	1110713	17
1	D1	DIODE BRIDGE	1110714	18
1	F1	FUSE 15A, 32V	9007226	19
1	D5	DIODE IN5248B 15V 5% ZENER	1110736	20
1	D11	DIODE D674 6 3V 2% ZENER	1110986	21
1	J1	CONN 8 PIN MATE N LOCK	1209340-00	22
1	I1	LAMP 15V	1209169	23
1		HEAT SINK BRIDGE	1210907	24
8		PIN, CONNECTOR	1209456	25
1	R12	RES 10,1W 5%	1300171	26
2	R14,R16	RES 100,¼W.5%	1300229	27
1	R24	RES 120,¼W.5%	1300247	28
2	R7 R8	RES 150,¼W.5%	1300250	29
1	R23	RES 470 ¼W.5%	1300316	30
1	R2	RES 680,1W.10%	1300346	31
2	R22,R28	RES 1K,¼W 5%	1300365	32
1	R27	RES 3 9K ¼W,5%	1300444	33
1	R20	RES 12K,¼W,5%	1300488	34
1	R17	RES 15K.¼W,5%	1300496	35
2	R5,R9	RES 10K,¼W.5%	1300479	36
3	R3 R11,R13	RES 10. ¼W.5%	1301317	37
1	R19	RES 7.5K,¼W,5%	1301422	38
2	R6,R26	RES 27. ¼W.5%	1301522	39
2	R10,R18	RES 47K.¼W.5%	1302177	40
1	R15	RES 75. ¼W 5%	1302379	41
1	R31	RES 511.¼W.1%	1302411	42
1	R1	RES 3 9K,1W.10%	1302927	43
1	R29	RES 196.¼W.1%	1302956	44
1	R21	RES 18K,¼W.5%	1302465	45
1	R30	RES 200,POT 20%	1310852	46
1	R4	RES 03 5W,3%	1310876-1	47
1	R25	RES 5 6K.¼W,5%	1301874	48
6		EYELET	9006732	49
2	Q6,Q8	TRANSISTOR MPSA05	1510705	50
4	Q1,Q2,Q5,Q7	TRANSISTOR MPSA55	1510706	51
1	Q4	TRANSISTOR D45H8	1510708-0	52
1	Q9	TRANSISTOR 2N6028	1510877	53
1	L1	INDUCTOR 60uh	1610850	54

IC TYPE	GND	+ 5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE		

IC PIN LOCATIONS

DEC NO.	EIA NO.	DEC NO.	EIA NO.

SEMICONDUCTOR CONVERSION CHART

FIRST USED ON OPTION MODEL: H770

PARTS LIST

ETCH BOARD REV

CHK	CHANGE NO.	REV
	REVISIONS	

DRN		DATE 5-15-74
CHKD		DATE 9-13-74
ENG		DATE 9-16-74
PROJ. ENG.		DATE 9-16-74
PROD		DATE 10-10-74

NEXT HIGHER ASSY: E-UA-H770-0-0

SCALE: NONE

SHEET 1 OF 2

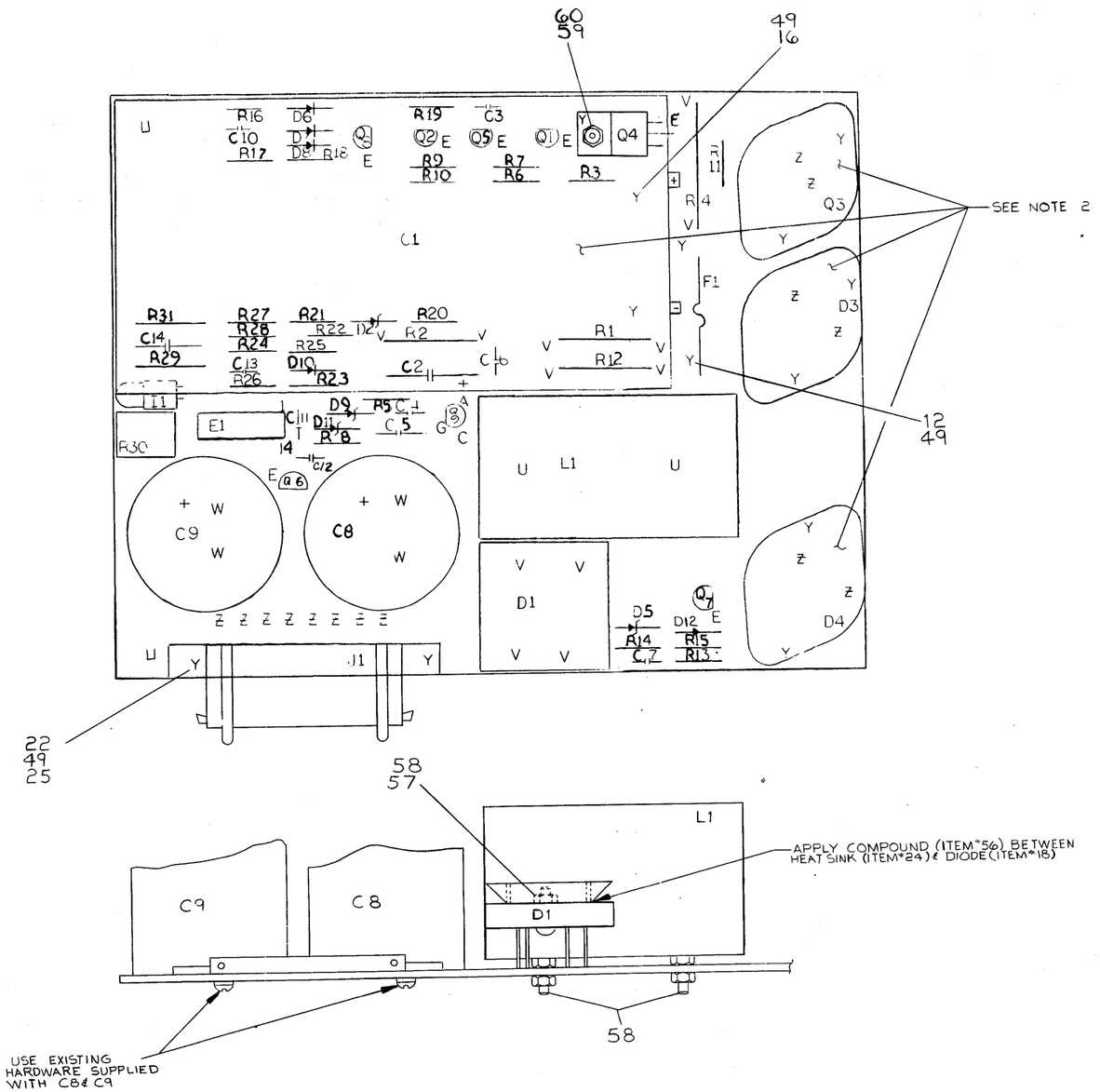
digital EQUIPMENT CORPORATION

TITLE: +15V REGULATOR

SIZE: D | CODE | NUMBER: DUA5411207-0-0 | REV.

DIST.

DUA5411207-0-1



REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV
+15V REGULATOR	D	UA	5411207-0-0	
SCALE 2/1 SHEET 2 OF 2	DIST			

D UA 5411207-0-0 2

D UA 5411207-0-0 B

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

SEQUENCE	
Drawing Directory	B-DD-857-Ø
Sys Diagram & Notes	D-AR-858-Ø-SDN
857/858 P.C. Flow #1	D-FD-858-Ø-FL1
" " Flow #2	D-FD-858-Ø-FL2
" " Flow #3	D-FD-858-Ø-FL3
857 P.C. (AC Line)	D-CS-857-Ø-ACL
" " (Remote Cont.)	D-CS-857-Ø-RC
" " (Temp Sensors)	D-CS-857-Ø-TMP
858 A.P.C. (Line & Temp Sens.)	D-CS-858-Ø-LTS
858 A.P.C. (Restart)	D-CS-858-Ø-RES
Module Utilization	D-MU-857-Ø-MUAD
Module Utilization	D-MU-858-Ø-MUAB
Wired Assy 857 P.C.	C-AD-7ØØ8893-Ø-Ø
Wire List (857)	K-WL-857-Ø-WL
Wired Assy 858 Aux P.C.	C-AD-7ØØ8895-Ø-Ø
Wire List (858)	K-WL-858-Ø-WL

SEQUENCE	
MFG SET	
857 Power Control	D-UA-857-Ø-Ø
857 Power Control (PL)	A-PL-857-Ø-Ø
Transformer Assy	D-AD-7ØØ8875-Ø-Ø
857 Test Procedure	C-SP-857-Ø-3
857 Tester	C-CS-857-Ø-2

NOTE: The Mfg. set for the 858 Aux. Power Control is documented on B-DD-858-Ø

THIS IS PRINT SET

UNIT VARIATIONS		PRINT SET TYPE
VARIATION	TITLE	

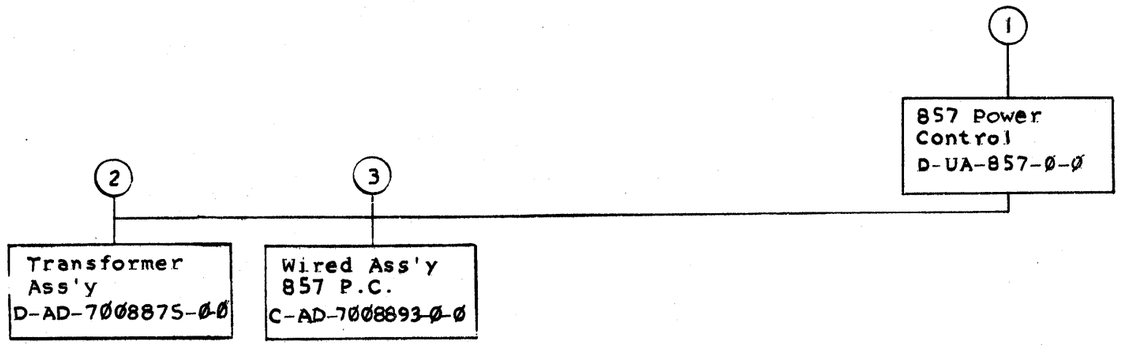
REVISIONS			
DATE	CHG. NO.	REV	
9-72	857-1	A	Allan Kent 10 oct 72
11-72	858-1	B	Beasley 11-21-72
			A. KENT Allan Kent 21 Nov 72
	857-2	C	Beasley 12-12-72
			A. KENT Allan Kent 8 Jan 72
	857-3	D	E. Allain 8-31-73
			A. KENT Allan Kent 13 Sept 73
	857-4	E	S. Chartier 1-2-73
			DREW L. Drew Weeks
	857-5	F	J. Chartier 7-2-74
			SCHWARTZ M. Schwartz 2/18/74
	857-6	H	S. Chartier 10-8-74
			SCHWARTZ M. Schwartz 10/11/74
	857-7	J	D. M. 7-7-77
	857-8	K	Allan Kent 19 Aug 77
	857-MR009	L	F. Hollis 4-12-78
			L. BALES L. Bales 6-21-78

USED ON OPTION/MODEL

DRN.	DATE 4/28/72	TITLE: 857 POWER CONTROL
CHK'D R. D. Noad	DATE 5/19/72	
PROJ ENG. Allan Kent	DATE 23 May 72	
PROD.	DATE 23 May 72	SIZE B · CODE DD · NUMBER 857-0 · REV L
FIELD SERV.	DATE 5/30/72	
SHEET 1 OF 3.		DIST G

DRB 106

DEC 16—(325)—1062—1—N871



TITLE		SIZE	CODE	NUMBER	REV
857 POWER CONTROL	SHEET 2 OF 3	B	DD	857 - 0	L

MR

ELECTRICAL

CUSTOMER PRINT SET 857-Ø	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
X		1	D-AR-858-Ø-SDN	#	1	System Diagram & Notes	858
X			D-FD-858-Ø-FL1	#	1	857/858 Power Control Flow #1	
X			D-FD-858-Ø-FL2	#	1	" " " Flow #2	
X			D-FD-858-Ø-FL3	#	1	" " " Flow #3	
X			D-CS-857-Ø-ACL	B	1	857 P.C. (AC Line)	
X			D-CS-857-Ø-RC	*	1	" " (Remote Control)	
X			D-CS-857-Ø-TMP	A	1	" " (Temp Sensors)	
X			D-CS-858-Ø-LTS	#	1	858 Aux. P.C. (Line & Temp Sens.)	858
X			D-CS-858-Ø-RES	#	1	" " " (Restart)	858
X			D-MU-857-Ø-MUAD	B	1	Module Utilization	
X			D-MU-858-Ø-MUAB	#	1	Module Utilization	858
X			K-WL-857-Ø-WL	A	-	Wire List 857	
X			K-WL-858-Ø-WL	#	-	Wire LIst 858	858
	X		C-SP-857-Ø-3	A	3	Test Procedure	
	X		C-CS-857-Ø-2	*	2	857 Tester	
	X	2	D-AD-7ØØ8875-Ø-ØC		2	Transformer Ass'y	
X		3	C-AD-7ØØ8893-Ø-ØA		1	Wired Ass'y 857 P.C.	

MECHANICAL

CUSTOMER PRINT SET 857-Ø	MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
X		1	D-UA-857-Ø-Ø	E	4	857 Power Control	
X			A-PL-857-Ø-Ø	E	4	857 Power Control PL	
			E-IA-74Ø9611-Ø-Ø	B	1	Chassis	
			D-IA-74Ø9619-Ø-Ø		1	Housing, Capacitor	
			C-IA-74Ø9607-Ø-Ø		1	Cover, Power Cont.	
			D-IA-74Ø9626-Ø-Ø		1	Brkt., Conn.	
			C-MD-74Ø9621-Ø-Ø		1	Hinge, Cover	
			C-MD-74Ø9614-Ø-Ø		1	Outlet, Plate	
			D-MD-74Ø9615-Ø-Ø		1	Cover	
			C-MD-74Ø9620-Ø-Ø		1	Plate, End	
			E-AD-7ØØ8874-Ø-Ø		1	Switch Cable Ass'y	
			E-IA-7ØØ8881-Ø-Ø		1	Wire Harness 857 P.C.	
			A-DC-74Ø9692-Ø-Ø	A	1	Decals, 857 Power Cont.	
			D-IA-7411468-Ø-Ø		1	JUMPER PLUGS FOR 857 PWR. CONT.	
			D-IA-7418783-0-0	A	1	BRACKET CONTRACTOR	
		2	D-AD-7ØØ8875-Ø-Ø	#	2	Transformer Ass'y	
			C-IA-74Ø96Ø6-Ø-Ø		1	Switch Mtg. Plate	
			B-MD-74Ø97Ø4-1-Ø		1	Sw. Rot. #PA1Ø15 Rework	
		3	C-AD-7ØØ8893-Ø-Ø	A	1	Wired Ass'y 857 Power Cont	
			B-MD-74Ø96Ø9-Ø-Ø		1	Conn Mtg. Bar	

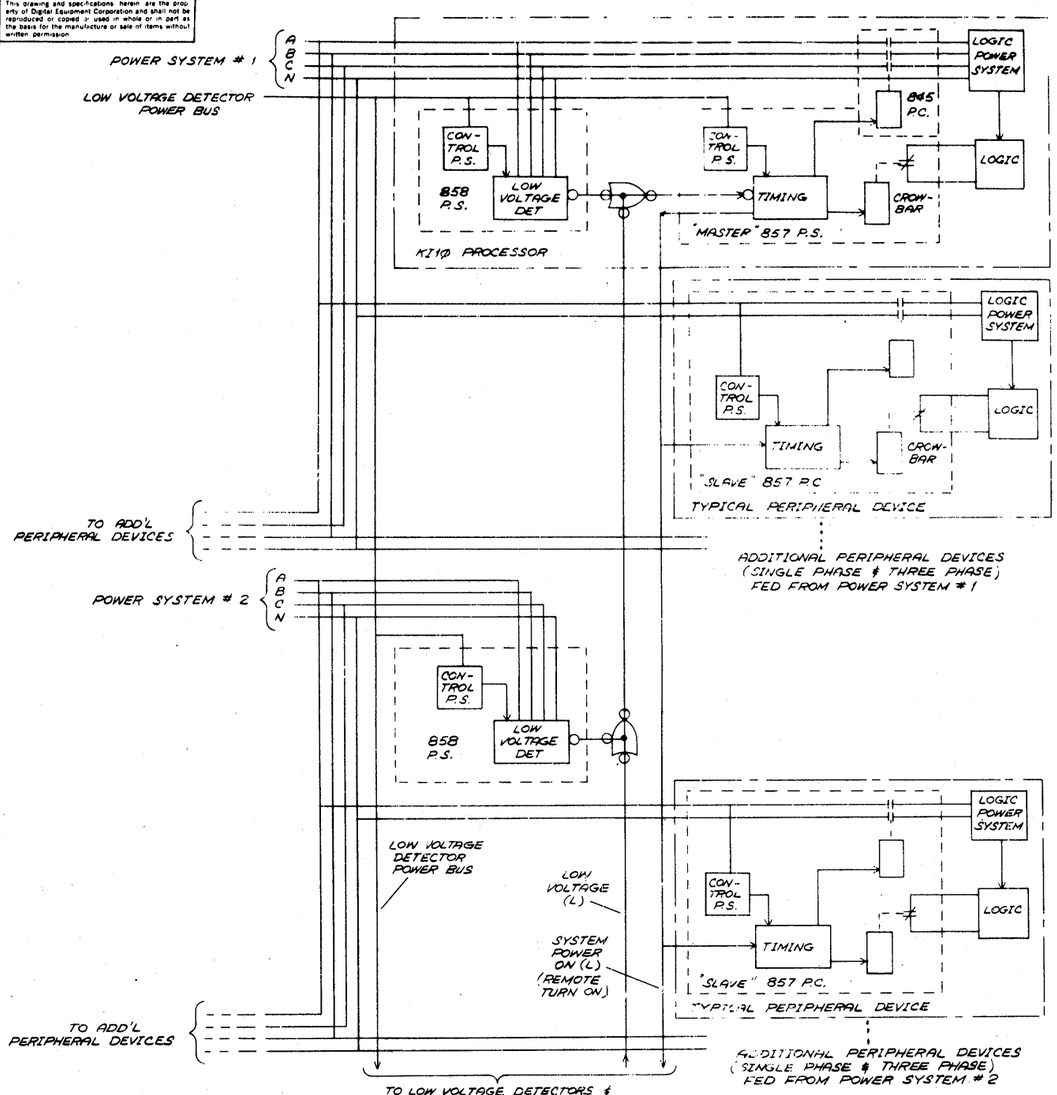
TITLE	SHEET	SIZE	CODE	NUMBER	REV
857 POWER CONTROL	3 OF 3	B	DD	857-0	L

DRB 108

DEC - 16- (325)-1062-2A-R272

6

MR



NOTES:

1. THE LOGIC POWER SUPPLY SYSTEM MUST BE UP AND ALL RESULTANT LOGIC TRANSIENTS WHICH AFFECT CRITICAL OPERATIONS MUST HAVE DIED OUT IN 3 SEC MAX (BEFORE CROWBAR RELEASE) AFTER AC POWER IS APPLIED (AT LOW OR HIGH LINE WHICHEVER IS WORSE; AND WITH MINIMUM OR MAXIMUM LOAD WHICHEVER IS WORSE).

2. THE LOGIC POWER SUPPLY SYSTEM MUST BE DOWN (SUCH THAT CRITICAL CIRCUITS CANNOT AFFECT BUSES, ETC.) WITHIN 7 SEC MAX OF REMOVAL OF AC POWER AS A GLITCH IN CROWBAR MAY OCCUR AT THIS TIME DUE TO THE 857 POWER SUPPLY GOING OUT OF SPEC.

3. WHEN MULTIPLE 858'S ARE USED FOR MULTIPLE (>3) PHASE MONITORING, THE AC LINE SUPPLY (FOR CONTROL POWER) OF ALL 858'S AND THE RELATED 857 MUST BE THE SAME PHASE OF ONE OF THE POWER MAINS SYSTEMS (I.E. ALL 858'S & 857 ARE WIRED IN PARALLEL). IF AN 858 MUST MONITOR A DIFFERENT VOLTAGE THAN THAT OF THE CONTROL POWER AC BUS, IT MUST BE MODIFIED BY REMOVING THE CONTROL POWER AC BUS FROM S2 DECK 4 COMMON & PERMANENTLY WIRING IT TO THE APPROPRIATE TAP OF T4.

4. (WHEN MULTIPLE 858'S ARE USED) IN MULTIPROCESSOR SYSTEMS (WHERE A MASTER CONTROL PANEL IS USED), AN ADDITIONAL 857 IS REQUIRED IN THE MASTER CONTROL PANEL. THIS 857 RECEIVES THE OUTPUT OF ALL 858 LOW VOLTAGE DETECTORS.

5. THE POWER CONTROL WHICH GENERATES SYSTEM POWER ON (REMOTE TURN ON) MUST HAVE SAME CONTROL POWER SUPPLY AC MAINS BUS AS LOW VOLTAGE DETECTORS. FURTHER WHEN THIS BUS FAILS, THE 857 POWER MUST GO DOWN (I.E. THE WS19 10# DELAY MUST BE TRIGGERED NOT LATER THAN 1.5s MAX AFTER THE EARLIEST 858 POWER SUPPLY GOES DOWN. (WHEN THE 858 POWER SUPPLY GOES DOWN, LOW VOLTAGE GOES FALSE.) THE ALTERNATIVE IS TO FIX LOW VOLTAGE SIGNAL SO THAT POWER SUPPLY DOWN APPEARS AS LOW VOLTAGE TRUE.

REVISIONS		
REV	CHANGE NO	CHK

DRAWING 40-522 15B0

DEC FORM NO. DRD 102-B

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO	ITEM NO.
KI10		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES

DECIMALS	ANGLES
XXX ± .005	± 0° 30'
XX ± .02	
X ± .1	

REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY ✓

MATERIAL

FINISH

DRN. E. Hopkins	DATE	4/6/72
CHK'D Allan Kent	DATE	17 May 72
ENG. Allan Kent	DATE	17 May 72
PROJ. ENG. Allan Kent	DATE	17 May 72
PROD. [illegible]	DATE	23/5/72

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE: SYSTEM DIAGRAM & NOTES

NEXT HIGHER ASSY: B-DD-857-Ø

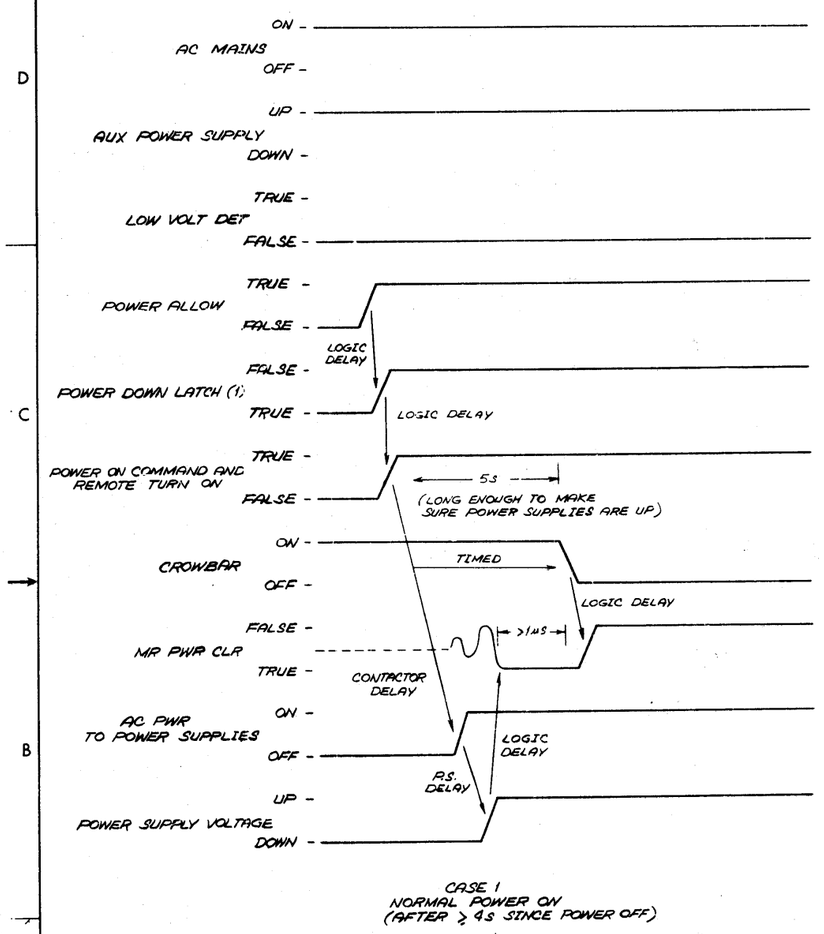
SCALE: ~

SHEET 1 OF 1

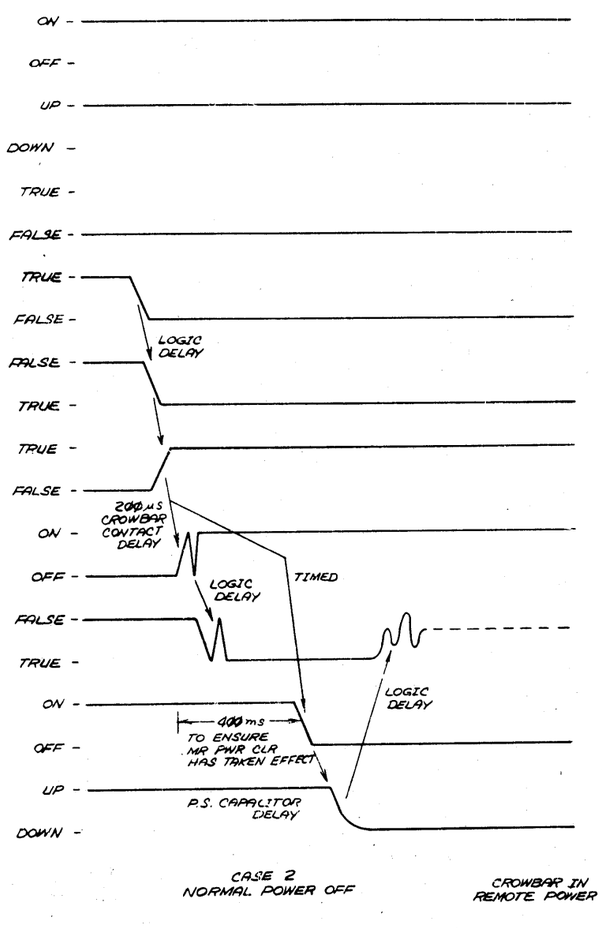
SIZE	CODE	NUMBER	REV
D	AR	858 - Ø - SDN	

DIST

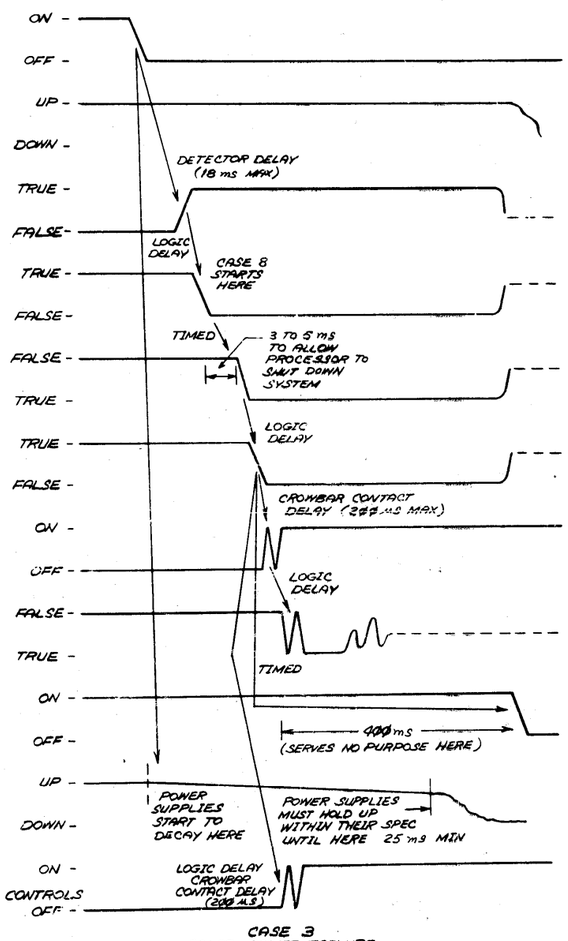
SIZE	CODE	NUMBER	REV
D	AR	857 - Ø - SDN	



CASE 1
NORMAL POWER ON
(AFTER ≥ 4s SINCE POWER OFF)



CASE 2
NORMAL POWER OFF



CROWBAR IN REMOTE POWER CONTROLS

CASE 3
SOLID POWER FAILURE

REVISIONS		
REV	CHANGE NO	CHK

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
KI10		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES
TOLERANCES

DECIMALS	ANGLES
XXX ± .005 XX ± .02 X ± .1	± 0° 30'

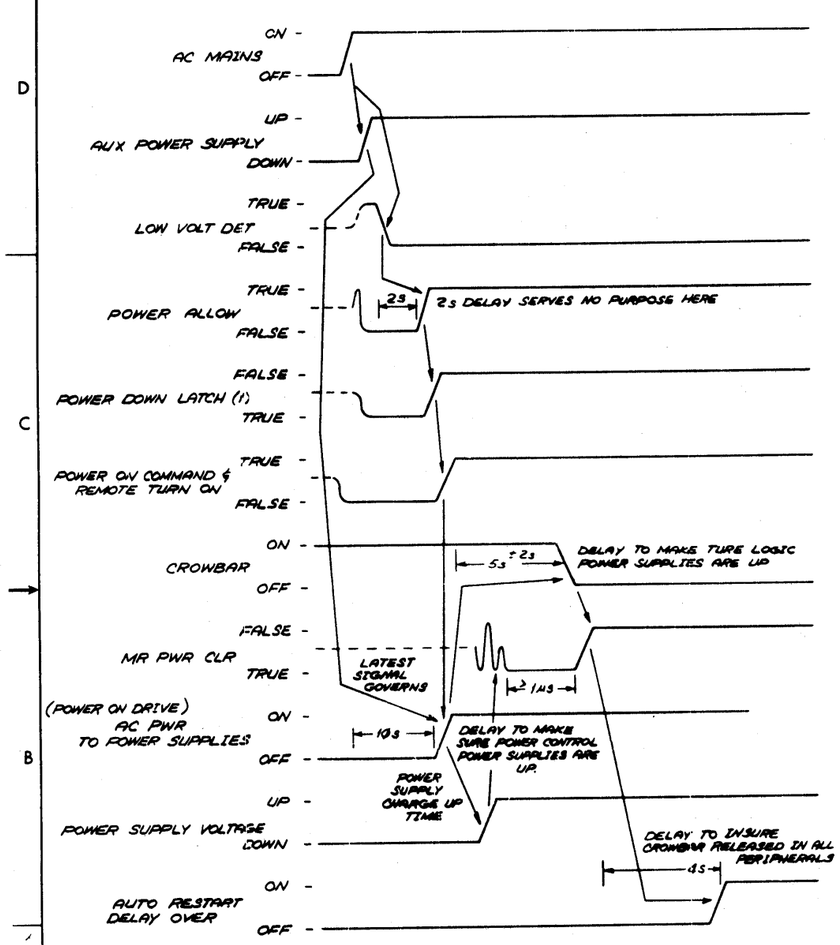
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL

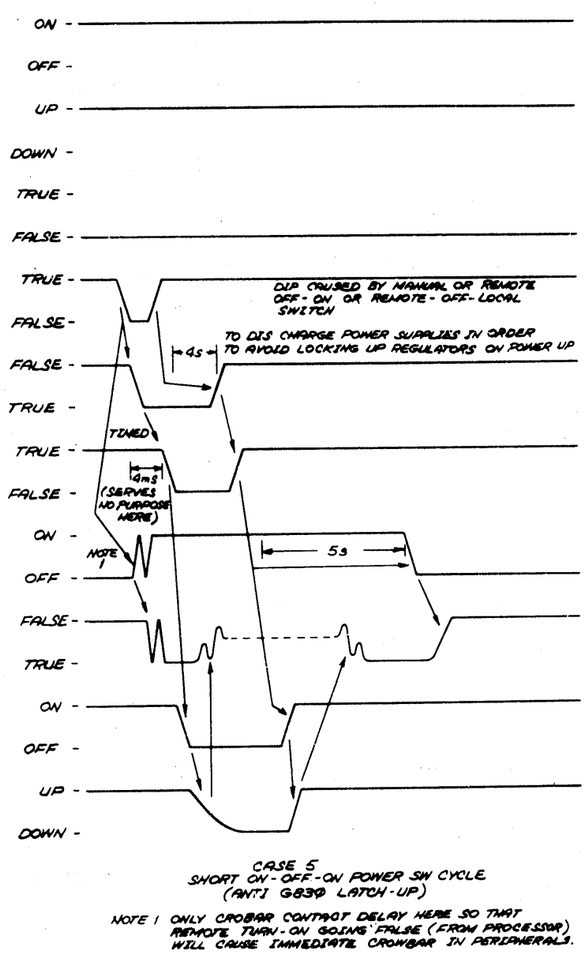
FINISH

DRN W. Stephenson	DATE 4/6/72	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
CHK'D Allen Kent	DATE 23 May 72	
ENG Allen Kent	DATE 23 May 72	TITLE 857/858 POWER CONTROL FLOW 1
PROJ ENG Allen Kent	DATE 23 May 72	
PROD	DATE 6/13/72	
NEXT HIGHER ASSY B-DD-857-Ø		SIZE D CODE FD NUMBER 858-Ø-FL1 REV
SCALE ~		
SHEET 1 OF 1		DIST

BRUNING 40-522 15840
DEC FORM NO
DRD 102-B

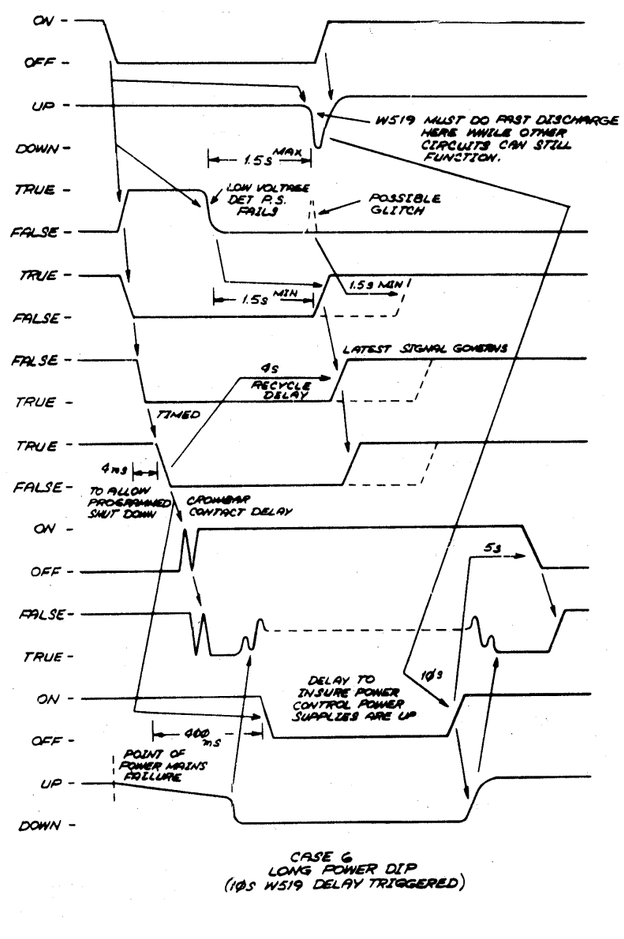


CASE 4
SOLID POWER RETURN
(AFTER ⅞ 30s FAILURE)



CASE 5
SHORT ON-OFF-ON POWER SW CYCLE
(ANT.) G830 LATCH-UP)

NOTE 1 ONLY CROBAR CONTACT DELAY HERE SO THAT REMOTE TURN-ON GOING FALSE (FROM PROCESSOR) WILL CAUSE IMMEDIATE CROWBAR IN PERIPHERALS.



CASE 6
LONG POWER DIP
(10s W519 DELAY TRIGGERED)

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
KI10		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES
TOLERANCES
DECIMALS: XXX ± .005, XX ± .02, X ± .1
ANGLES: ± 0° 30'
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓
MATERIAL
FINISH

DRWN	M Matheson	DATE 30/1/78
CHK'D	Allan Kent	DATE 2/2/78
ENG	Allan Kent	DATE 2/2/78
PROJ ENG	Allan Kent	DATE 2/2/78
PROD		DATE 2/2/78

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE: 857/858 POWER CONTROL FLOW #2

NEXT HIGHER ASSY: B-DD-857-0

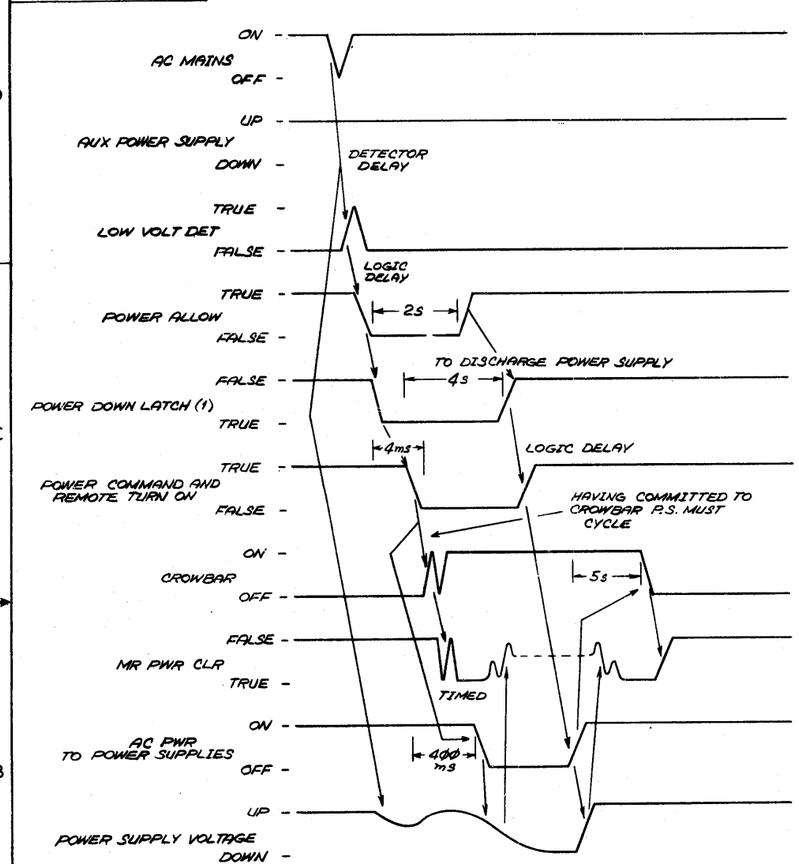
SIZE	CODE	NUMBER	REV
D	FD	858-0-FL2	

SCALE: None
SHEET 1 OF 1
DIST

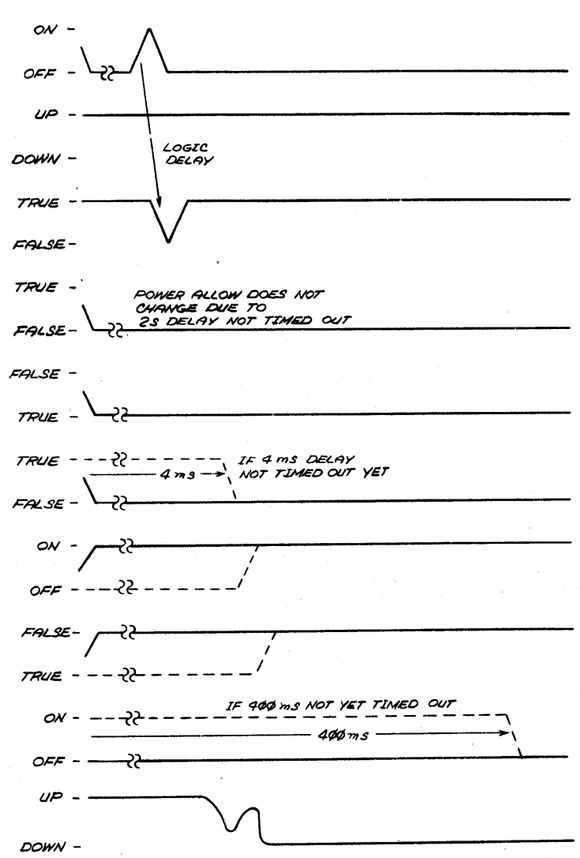
REVISIONS	REV	CHANGE NO	CHK

BRUNING 40-322 15M40
DEC FORM NO DRD 102-B

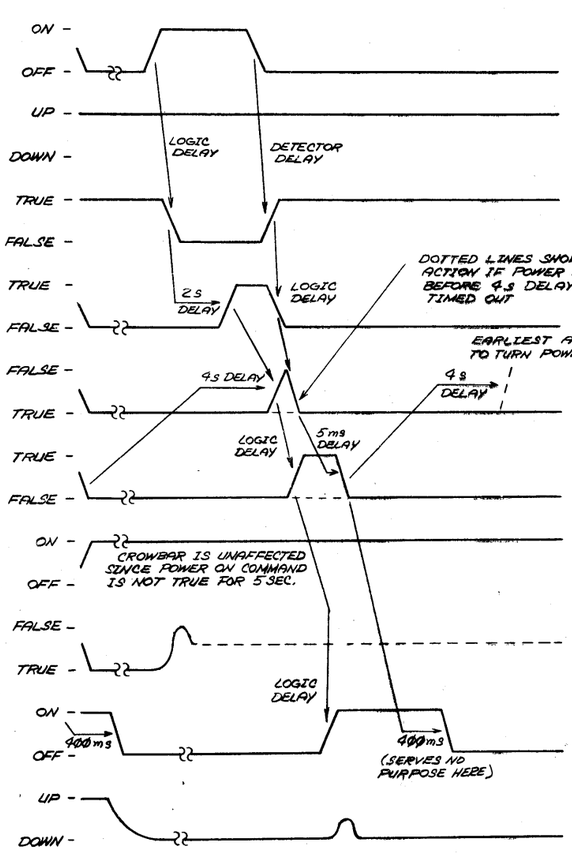
D FD 858-0-FL2



CASE 7
SHORT POWER DIP (DETECTED)
(10g WS19 DELAY NOT TRIGGERED)
(PWR FAIL = LOW VOLT ALARM V HI TEMP V INTERLOCK)



CASE 8
SHORT PULSE IN POWER (OTHERWISE DEAD)
PULSE ≤ 2s



CASE 9
LONGER PULSE IN PWR
PULSE ≥ 2s ; BUT P.S. RECYCLE DELAY NOT OVER
(ASSUMES AUX PWR SUPPLY HOLDS UP LONGER THAN P.S. RECYCLE DELAY)

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
KI10		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES

DECIMALS	ANGLES
.XXX ± .005 .XX ± .02 X ± .1	± 0° 30'

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL

FINISH

DRN. W. Hardiman	DATE 22 Feb 72	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
CHK'D Allan Kent	DATE 23 Feb 72	TITLE 857/858 POWER CONTROL FLOW # 3
ENG. Allan Kent	DATE 23 Feb 72	
PROJ. ENG. Allan Kent	DATE 23 Feb 72	
PROD. [illegible]	DATE 2 Mar 72	
NEXT HIGHER ASSY. B-DD-857-0		SIZE D CODE FD NUMBER 858 - 0 - FL3 REV.
SCALE ½		
SHEET OF		DIST.

REVISIONS		
REV	CHANGE NO	CHK

BRUNING 40-522 1960
DIF FORM NO DRD 102-B

SIZE D CODE FD NUMBER 858 - 0 - FL3 REV

8 7 6 5 4 3 2 1

FROM 845 UNSW'D IN KI10
FROM AC LINE CORD IN PERIPHERAL
TB1
LINE 1
LINE 2 OR NEUTRAL
FRAME GROUND
RED #14
WHT #14
CROWBAR (TO LOGIC)
POWER ON DRIVE
CB1 30A
RED 15
BLK
03 S1A (DECK 1)
R3 150 KΩ 1W
C3A 2xØ.1uF 440 V AC
C3B
J4-13
J4-14
GRN
BRN
W023 C04
K138 B06
W023 D06
VIO
J3-6
CROWBAR RELEASED (TO 858 AUX POWER CONTROL)
L1 FERRITE TUBE
L2 FERRITE TUBE
10Ω 2W R1
10Ω 2W R2
F1 15 AMP
F2 15 AMP
F3 2 AMP
F4 15 AMP
C4A 2xØ.1uF 440V AC
C4B
BRASS
SILVER
PLUG 1
PLUG 2
C5A 2xØ.1uF 440 VAC
C5B
SWITCHED POWER 1
SWITCHED POWER 2
SWITCHED POWER 3
N.C.
BLK
RED
WHT
FRAME GROUND
K1 & 2ND POWER TABS ARE UNUSED IN KI10
UNLESS OTHERWISE NOTED: ALL RESISTORS ARE ±5% ¼ W
NUMBERS SHOWN WITH RELAY (K1) INDICATE WIRE HARNESS NUMBERS
( ) INDICATES "JA" TERMINAL NUMBERS.
K1
ROWAN 2160-8-320-ABA-22-X4000
ARROW-HART ACC-320-UM-80
W519 ** B08
5000 µS MAX RLS
≈5.3 RLS
≈10 s RLS
≈0.4 s
~CROWBAR RELEASE
CROWBAR RELEASE
~857 ÷5
POWER REQUEST
POWER ON COMMAND
W023 B04
GRY
J3-3
TO 858 AUX POWER CONTROL
J3-2
YEL
RECYCLE DELAY 4 SEC
K383 C08
C6 .39 µF ±10% 16V
R4 150 K ±5% ¼W
≈5 ms
POWER ALLOW
POWER DOWN LATCH
K372
K113 D07
~POWER ALLOW
D3, D2 GE (USA) 6RS7205P4B4 THYRECTOR
K1. ROWAN CONTACTOR 2299-EB-320ABA-11 (WITH 2999-51 DEB COIL)
K1 GENERAL ELECTRIC CR161FC013AHA
"120V BLK"
"120V RED"
SEE NOTE #
WIRE SPLICE
INSTALL WHEN USED AS STANDALONE POWER CONTROL
J8-1
J8-3
J8-2
J8-4
TO 845 "CONSOLE SWITCH" TERMINALS IN KI10
30 µs APPROX.
KG14 * AB02
TEST POINT PIN AB
POWER OK
POWER ON DRIVE
K13B B05
POWER OK (857)
W023 B04
J3-7
(NOT USED)
MAINS SUPPLY TURN ON
K731 D02
K732 C03
CURRENT SHARING BUS
C1 .16F 20V
+5
J3-8
J3-10
D1 DIODE ASSY
T1
BLU 240V
GRN 200V
YEL 200V
ORN 115V
RED 100V
SID
(DECK 4)
VIO
WHT
GRY
N/C
BRN
P/O T1
C2 6.5 mF 25V
+15
J1-8
J8-5
J8-6
GRN
BLU
KG14 AB02
AUX CONTACT
J2-4
J2-3
~TEMP 1 OK
~TEMP 2 OK
~TEMP 3 OK
~TEMP 4 OK
~TEMP 5 OK
~TEMP 6 OK
~REG STACK 3 OK
~AUX TEMP OK
KØØ3 B07
KØØ7 B07
FROM 858 AUX P.C.
J3-9
1.8K R12
W023 D04
K113 C06
OVERTEMP LATCH
~POWER REQUEST
~POWER OK
KØØ3 D05

NOTE: * KG14 MUST BE ETCH REV D AND CIRCUIT SCHEMATIC REV F OR LATER (MASTER CLOCK APPROX 30 µs INSTEAD OF APPROX 200 µs).

** W519 MUST BE REV E OR BEYOND

*** TAB BROKEN ON EACH SIDE OF DUPLEX OUTLET.

NOTE
ALL SIGNAL NAMES ON THIS SHEET CONNECTED TO LOW ASSERTIO. DESIGNATION CIRCLES "O" ARE AS IF SUFFIXED WITH "L". ALL SIGNAL NAMES ON THIS SHEET NOT CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES ARE AS IF SUFFIXED WITH "H"

REVISIONS			
CHK	CHANGE NO.	REV	
Y.K.	857 00002	A	Donnelly 12-13-72 A. KENT
Allen Kent	857-00008	B	P. Krause 21 Jun 73 A. KENT
Allen Kent	857-MR009	C	29 MAR 78 L BALES

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
KI10		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES
DECIMALS .XXX ± .005, .XX ± .02, .X ± .1
ANGLES ±0° 30'
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓
PARTS LIST A-PL-857-Ø-Ø
FINISH

DRN. A. Stephenson 1/1/71
CHK'D. Allen Kent 28 May 72
ENG. Allen Kent 28 May 72
PROJ. ENG. Allen Kent 28 May 72
PROG. 28 May 72
NEXT HIGHER ASSY. B-DD-857-Ø
SCALE ~
SHEET 1 OF 1

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE
857
POWER CONTROL
(AC LINE)

SIZE	CODE	NUMBER	REV.
D	CS	857-Ø-ACL	C

DIST.

DEC FORM NO DRD 102-B

mr

FRONT VIEW

BACK VIEW

F D E C A B

S3 REMOTE / OFF / LOCAL

W023 A04

K138 B05

A B WHT YEL C D REMOTE Ø

D WHT E F YEL E LOCAL 1

BLK C

B D 1 · E F Ø · H J Ø · K L 1

POWER SW ON (1) D E

REMOTE (1) F H

LOCAL (1)

K026 D06 J

K113 C07 J B D

INSTALL WHEN USED IN PERIPHERAL

FROM dc DRIVER IN 858 (IN KIIØ SINGLE PROCESSOR SYSTEMS) J3-12

J3-5 BLU BUS POWER REQUEST

W023 B04 F H

W023 C04 V J2-2

SYSTEM POWER ON (L)

DEC POWER CONTROL BUS 1 2 3 J5 J6 J7 BLU WHT BLK L K W023 B04

EXT KØØ3

~ EMERG SHUTDOWN

K138 B05 N M

W023 D04 N BLU J3-1 POWER REQUEST M GRN J3-11

VOLTAGE LOW DELAY (Ø) F H

K113 C06 B D E J

K113 D07 V R POWER ALLOW T U S

KØØ3 D05 F H J E

W023 C04 U WHT J2-1

EXT KØØ3

TYPICAL ON n ADDITIONAL DEC POWER CONTROL BUSES WHEN CONTROL BY >1 BUS IS REQUIRED (EXTERNAL)

OVERRIDE OVERTEMP LATCH (Ø) R S

~ CKT BRKR TRIPPED T U

~ DOOR OPEN M N

KØ26 D06 V

K113 C07 P K L

UNLESS OTHERWISE NOTED:
ALL RESISTORS ARE ±5% 1/4 W CARBON COMPOSITION.
ALL CAPACITORS ARE ±10% 20V DC TANTALUM.

K303 D08 R S R S Ø VOLTAGE LOW DELAY 2 SEC T U

V 15µF C7 R5 220K

+5V R6 1.8K

LOW VOLTAGE J3-4 WHT V V K138 B06 U

W023 D04

DØ8E

DØ8K

K683 AB03 AD AB AF AE AJ AH AL AK AN AM AR AP AT AS AV AU

W023 B04 M GRN I1 N BLU I3 P YEL I2 R RED I4

W023 D04 F GRN J1-4 H BLU J1-5 P YEL J1-6 S RED J1-7 ORN J1-8 +15

OVERTEMP

OVERTEMP LATCH (1)

DOOR OPEN

CKT BRKR TRIPPED

DOOR OPEN

CRT BRKR TRIPPED

POWER SWITCH ON

TO EXT LAMPS WHEN PROVIDED

OVERRIDE CAUSES POWER SWITCH LAMP TO FLASH WHEN POWER SWITCH IS ON

K K L L Ø OFF TIME 280 ms M N

P 2.2µF C8 R7 180K

OVERRIDE K303 D08

D E D E Ø ON TIME 220 ms F H

J 2.2µF C9 R8 150K

POWER SW ON (1)

NOTE
ALL SIGNAL NAMES ON THIS SHEET CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES "O" ARE AS IF SUFFIXED WITH "L". ALL SIGNAL NAMES ON THIS SHEET NOT CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES ARE AS IF SUFFIXED WITH "H".

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES
DECIMALS .XXX ± .005 .XX ± .02 .X ± .1 ANGLES ±0° 30'
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓
MATERIAL
FINISH

DRN M. Hopkinson DATE 4/23/72
CHK Allen Kent DATE 23 May 72
ENG Allen Kent DATE 23 May 72
PROJ. ENG. Allen Kent DATE 23 May 72
PROG DATE 5/21/72

NEXT HIGHER ASSY. B-DD-857-Ø
SCALE ~ SHEET 1 OF 1

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE 857 POWER CONTROL (REMOTE CONTROL)

SIZE D CODE CS NUMBER 857 - Ø - RC REV.
DIST.

REVISIONS REV. CHANGE NO CHK

BRUNING 40-522 1580 DEC FORM NO DRD 102-B

TYPICAL OF AUX. CONTACTS ON UP TO 32 EXT CKT BRKR'S

J2-8 ORN — W023 DØ4 — +5 — B06A 1.8K R10 H — K138 B06 J — CKT BRKR TRIPPED

CKT BRKR #n TRIPPED

+5 — B06A 1.8K R11 — K138 B06 K → L — OVERRIDE

S2 OVERRIDE SW: NO ON, NC OFF, C BLK — BLU — J — K BLK — W023 AØ4

EXT POWER SW: NO, C, NC

J1-1 GRN — JUMPER IF NO PWR SW — J1-2 BLK — W023 BØ4 C

J1-3 RED — W023 DØ4 D, E

K138 BØ6: B → D, E → F

D → 1 POWER SW ON

F → Ø

SERIES CHAIN OF EXT N.C. DOOR SW'S

+5 — A03A 1.8K R9 A03L

J2-6 BLU — L — DOOR OPEN (H)

J2-7 BLK — C — W023 DØ4

+15V — J2-5 YEL — W023 DØ2 T — +5 C07A 470 R13 B07T — REG STACKS OK (H)

TYPICAL OF 1 OR MORE EXTERNAL AIRFLOW/ HEAT SENSORS

EXTERNAL THERMISTORS

CHARACTERISTICS: 1K Ω @ 25°C (77°F) 360 Ω @ 50°C (122°F)

K522 YA A06 — +3.5

J4-1 WHT — D — TEMP 1 OK

J4-2 BLK — C

K522 YA A07

J4-3 WHT — F — TEMP 2 OK

J4-6 BLK — E

K522 YA A07

J4-4 WHT — J — TEMP 3 OK

J4-5 BLK — H

K522 YA A08

J4-7 WHT — L — TEMP 4 OK

J4-8 BLK — K

K522 YA A08

J4-9 WHT — N — TEMP 5 OK

J4-12 BLK — M

J4-10 WHT — R — TEMP 6 OK

J4-11 BLK — P

TO OVER TEMP LATCH

W023 CØ4

K522 YA — INPUT PIN S — INPUT PIN U

ARROW IS DIRECTION TO DECREASE TRIP POINT TEMPERATURE.

ADJUST K522 YA SO THAT 360 Ω RESISTOR CAUSES LOW OUTPUT (OVER TEMP LIGHT ON); 390 Ω RESISTOR CAUSES HIGH OUTPUT (OVER TEMP LIGHT OFF).

NOTE
ALL SIGNAL NAMES ON THIS SHEET CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES "O" ARE AS IF SUFFIXED WITH "L". ALL SIGNAL NAMES ON THIS SHEET NOT CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES ARE AS IF SUFFIXED WITH "H".

REVISIONS	CHK	CHANGE NO	REV
		857-00002	A
		Docs 1 of 1	2-13-72
		A. KENT	
		Mfg. Rel.	8 Jan. 73

DRAWING 40-522 1940

DEC FORM NO DRD 102-B

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES

DECIMALS	ANGLES
.XXX ± .005	±0° 30'
.XX ± .02	
.X ± .1	

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL

FINISH •

DRN. [illegible] DATE 7-27-72
CHK'D Allen Kent DATE 27-Nov-72
ENG. Allen Kent DATE 27-Nov-72
PROJ. ENG. Allen Kent DATE 27-Nov-72
PROD. [illegible] DATE 7-28-72

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE 857 POWER CONTROL (TEMP SENSORS)

NEXT HIGHER ASSY. B-DD-857-Ø

SCALE ~

SHEET 1 OF 1

SIZE DCS CODE NUMBER 857-Ø-TMP REV. A

DIST.

S2 DECK 4 — BLU 240V, GRN 220V, YEL 200V, ORN 115V, RED 100V — T4

FROM B57 UNSW TABS — RED, WHT — BRN — T P/O T4

VIO, WHT U, GRY C, WHT V, VIO — OPTIONAL K731 B04 — E, D, A, S

D1 MDA 980-1

ORN — C3 6500 µF 25V — 200Ω 5% 7W — +15

BLU — C2 6500 µF 25V — 200Ω 5% 1W — -15

TO W509

CHARACTERISTICS: 1KΩ @ 25°C (77°F); 360Ω @ 50°C (122°F)

J3-8 — RED — +5V

J3-10 — BLK — .16 F 20V C1

240V, 220V, 200V, 120V, 115V, 100V — CW

DECK 3 — GRY 240V, VIO 220V, BLU 200V, ORN 120V, RED 115V, BRN 100V — T3

PHASE A — RED — NEUTRAL — 3 x BLK OR WHT — WHT — BLK — T P/O T3

DECK 2 — GRY 240V, VIO 220V, BLU 200V, ORN 120V, RED 115V, BRN 100V — T2

PHASE B — ORN — BLK — T P/O T2

DECK 1 — GRY 240V, VIO 220V, BLU 200V, ORN 120V, RED 115V, BRN 100V — T1

PHASE C — YEL — BLK — T P/O T1

FROM B45 UNSW'D TABS OR MONITORED 3 PHASE LINE

+15, -15 — P, T — LOW VOLT DET — GRN, YEL, GRN — D, E

LOW VOLT DET — GRN, YEL, GRN — M, N

LOW VOLT DET — GRN, YEL, GRN — J, K

W509 A08 — V

K113 A07 — B, D, E, H, J

W023 A03 — N — WHT — J3-4 TO B57

LOW VOLTAGE

FROM 857 P.C.

POWER REQUEST J3-1 — BLU — K

POWER DOWN LATCH (1) J3-2 — YEL — L

POWER ON COMMAND J3-3 — GRY — M

W023 A03 — D — WHT — TO PROCESSOR J1-1

K113 A05 — B, D, E, F, H, J

POWER DOWN ALARM

K003 A06 — F, H, J, E

K652 AB01 — AF, AH

BLU — J3-12 TO B57 — SYSTEM POWER ON

ON N.O. — OFF N.C. — S1 — PROCESSOR BY PASS

BLK, BLK

EXTERNAL THERMISTORS

T — J2-1 — WHT — J2-2 — BLK

W023 B05 — C, D

K522YA B06 — +3.5, S, D, E, U, C

TEMP 7 OK

T — J2-3 — WHT — J2-6 — BLK

W023 B05 — E, F

K522YA B07 — +3.5, U, K, L, P, R

TEMP 8 OK

T — J2-4 — WHT — J2-5 — BLK

W023 B05 — H, J

K522YA B08 — +3.5, S, D, E, U, C

TEMP 9 OK

T — J2-7 — WHT — J2-8 — BLK

W023 B05 — K, L

K522YA B09 — +3.5, U, K, L, P, R

TEMP 10 OK

T — J2-9 — WHT — J2-12 — BLK

W023 B05 — M, N

K522YA B10 — +3.5, S, D, E, U, C

TEMP 11 OK

T — J2-10 — WHT — J2-11 — BLK

W023 B05 — P, R

K522YA B11 — +3.5, U, K, L, P, R

TEMP 12 OK

K522 YA — INPUT PIN S — INPUT PIN U

ARROW IS DIRECTION TO DECREASE TRIP POINT TEMPERATURE

ADJUST K522YA 90 THAT 360Ω RESISTOR CAUSES LOW OUTPUT (OVER TEMP LIGHT ON); 390Ω RESISTOR CAUSES HIGH OUTPUT (OVER TEMP LIGHT OFF).

NOTE
ALL SIGNAL NAMES ON THIS SHEET CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES "O" ARE AS IF SUFFIXED WITH "L". ALL SIGNAL NAMES ON THIS SHEET NOT CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES ARE AS IF SUFFIXED WITH "H".

REVISIONS			
REV	CHANGE NO	CHK	
A	B58-00001		

KENT

DEC FORM NO DRD 103-B

FIRST USED ON OPTION/MODEL: KI1Ø	QTY.	DESCRIPTION	PART NO. / ITEM NO.
		PARTS LIST	

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES
DECIMALS: .XXX = .005, .XX = .02, .X = .1 — ANGLES: ±0° 30'
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓
MATERIAL
FINISH

DRN	D. Stephenson	DATE 11/9/72
CHK'D.	Allen Kent	DATE 23 Nov 72
ENG.	Allen Kent	DATE 23 Nov 72
PROJ. ENG.	Allen Kent	DATE 23 Nov 72
PROD.	[illegible]	DATE 24 Nov 72

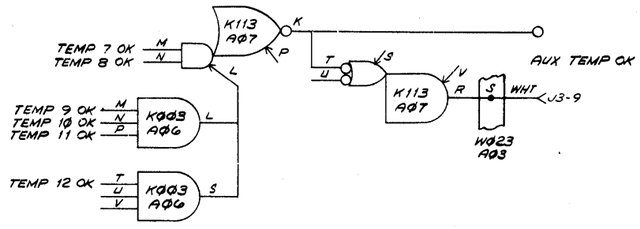
NEXT HIGHER ASSY. B-DD-857-Ø
SCALE
SHEET 1 OF 1

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE: 858 AUX POWER CONTROL (LINE & TEMP SENSING)

SIZE	CODE	NUMBER	REV.
D	CS	858 - Ø - LTS	A

DIST



UNLESS OTHERWISE NOTED:
ALL RESISTORS ARE ±5%
1/4 W CARBON COMPOSITION

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
KI1Ø		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES
DECIMALS: .XXX = .005, .XX = .02, .X = .1 — ANGLES: ±0° 30'
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓
MATERIAL
FINISH

DRN. W. Stephenson DATE 1/27/72
CHK'D. Allen Kent DATE 2/16/72
ENG. Allen Kent DATE 2/16/72
PROJ. ENG. Allen Kent DATE 2/16/72
PROD. Chris Allen DATE 2/17/72

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE: 858 AUX POWER CONTROL (RESTART)

NEXT HIGHER ASSY. B-DD-857-Ø
SCALE NONE
SHEET 1 OF 1

SIZE	CODE	NUMBER	REV.
D	CS	858 - Ø - RES	

DIST.

REVISIONS: REV. | CHANGE NO | CHK

DEC FORM NO 1ORD 102-B

SIZE D CODE CS NUMBER 858 - Ø - RES REV

CABLE TO EXTERNAL INDICATOR & CONTROL PANEL (WHEN USED)

PIN	SIGNAL	INPUT OUTPUT
J1-1	POWER SW N.O.	INPUT
2	POWER SW COM (GND)	—
3	POWER SW N.C	INPUT
4	OVERTEMP LMP L	OUTPUT
5	DOOR OPEN LMP L	OUTPUT
6	CKT BRKR TRIPPED LMP L	OUTPUT
7	POWER SW ON LAMP L	OUTPUT
8	+15V	OUTPUT
9	SPARE	
10	SPARE	
11	SPARE	
12	SPARE	

USE 7411468-1 WHEN NO POWER SWITCH USED

CABLE TO DC WIRING HARNESS

	PIN	SIGNAL	INPUT OUTPUT
*	J2-1	EMERG SHUTDOWN EXP	INPUT
*	2	BUS POWER REQUEST EXP	INPUT
	3	GROUND	—
	4	AUX CONTACT IN H	INPUT
	5	REG STACKS OK H	INPUT
	6	DOOR OPEN H	INPUT
	7	DOOR OPEN RET (GND)	—
	8	CKT BRKR TRIPPED L	INPUT
	9	SPARE	
	10	SPARE	
	11	SPARE	
	12	SPARE	

* THESE PINS ARE USED ONLY TO EXPAND CONTROL FROM MULTPLE POWER CONTROL BUSES. (SPECIAL SYSTEMS)

CABLE TO 858 (K110) JUMPER PLUG (PERIPHERALS)

	PIN	SIGNAL	INPUT OUTPUT
	J3-1	POWER REQUEST H	OUTPUT
	2	POWER DOWN LATCH (1) H	OUTPUT
	3	POWER ON COMMAND H	OUTPUT
	4	LOW VOLTAGE L	INPUT
*	5	BUS POWER REQUEST L	OUTPUT
	6	CROWBAR RELEASED H	OUTPUT
	7	POWER OK (857) H	OUTPUT
	8	+5V	OUTPUT
	9	~ AUX TEMP OK L	INPUT
	10	GROUND	—
	11	POWER REQUEST L	OUTPUT
*	12	SYSTEM POWER ON L	I/O

* THESE PINS ARE JUMPERED TOGETHER WHEN NO 858 IS USED OR WHEN THE K110 IS NOT THE SYSTEM MASTER CONTROL. (7411468-2)

THERMISTOR CABLE

PIN	SIGNAL
J4-1	THERMISTOR 1
2	1 RET
3	2
4	3
5	3 RET
6	2 RET
7	4
8	4 RET
9	5
10	6
11	6 RET
12	THERMISTOR 5 RET
13	CROWBAR +
14	CROWBAR −
15	SPARE

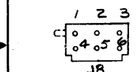
DEC POWER CONTROL BUS

PIN	SIGNAL
J5-1	SYSTEM POWER ON L
2	EMERG SHUTDOWN L
3	GROUND

J5, J6, & J7 ARE WIRED IN PARALLEL

AC CONTACTOR CONTROL (CAUTION HIGH VOLTAGE)

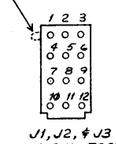
PIN	SIGNAL	K110 USAGE	PERIPHERAL USAGE
J8-1	LINE 1 (AC) THRU CKT BRKR	—	← JUMPERS ENABLE 857 CONTROL (7411468-3)
2	POWER ON TRIAC (IN)	TO 845 "CONSOLE SW"	
3	857 CONTACTOR COIL	—	
4	POWER ON TRIAC (OUT)	TO 845 "CONSOLE SW"	
5	AUX CONTACT TRIAC (IN)	—	
6	AUX CONTACT TRIAC (OUT)	—	



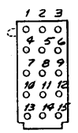
J8 MATING FACE VIEW OF FEMALE CONNECTOR

J5, J6, & J7 MATING FACE VIEW OF FEMALE CONNECTOR

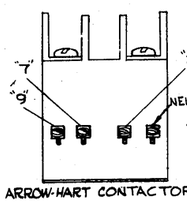
LOCATING RIDGE ON WIRING SIDE (TYP)



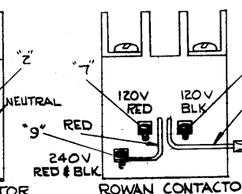
J1, J2, & J3 MATING FACE VIEW OF FEMALE CONNECTOR



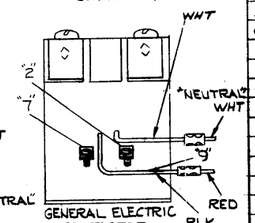
J4 MATING FACE VIEW OF FEMALE CONNECTOR



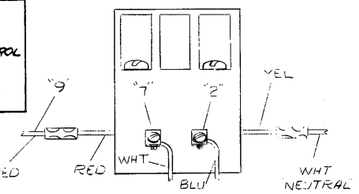
ARROW-HART CONTACTOR



ROWAN CONTACTOR 2200-EB-320-ABA-11 WITH 51 DEB COIL



GENERAL ELECTRIC CONTACTOR



ROWAN CONTACTOR 2160-B-320-ABA-22-X4000

S3	SWITCH, TOGGLE C+K 7211	1209593
S2	SWITCH, TOGGLE MICRO SWITCH 6ATI-T2	1201168
S1	SWITCH PAIOI5 REWORKED	7409704-1
R3	RESISTOR 130KΩ, 1W	1305604
D2, D3	THYRECTOR GE 6R520SP484	1100106
D1	RECTIFIER 12A #MDA980-1	1110168
T1	TRANSFORMER 12.6V, 15V	1610443
I1-I4	LAMP, IND 18V T-1-3/4	1210628
I1-I4	IND SOCKET MARCO OAK #59-52380-41-25	1210584
C3, C4, C5	CAPACITOR 2X0.1μF 1000VDC	1202153
R1, R2	RESISTOR 10Ω, 2W, 10%	1300172
C2	CAPACITOR 6500μF 25V	1009493
C1	CAPACITOR 160000μF 20V	1004874
I5	LAMP 1020-C55, 125V RED LENS INDUS. DEV	1201280
CB1	CIRCUIT BREAKER 30A	1201219
L1, L2	FERITE TUBE #56-261-30-3B	1605147
K1	CONTACTOR 30A 2P DER/PAR-OR 115E-61	1209406-3
TB1	END SECTION #530 BUCHANAN	1209158-2
TB1	TERM BLOCK #529 3SEC BUCHANAN	1209158-1
REF DES	DESCRIPTION	PART NO.

	1	2	3	4	5	6	7	8
		K614	K683	W023		K522YA	K522YA	K522YA
			OVER-TEMP LAMPS	REMOTE OFF LOCAL OVERRIDE		TEMP 1 OK	TEMP 3 OK	TEMP 5 OK
		CONTACTOR DRIVE	DOOR OPEN LAMPS			TEMP 2 OK	TEMP 4 OK	TEMP 6 OK
A	K614 OVERHANG			W023	K138	K138	K003	W519**
		AUX CONTACT	CKT BRKR TRIPPED LAMPS	J1 J2 J3 LAMPS	REMOTE	POWER SW ON	OVER-TEMP	CROWBAR & TIMING
					LOCAL	CKT BRKR TEST		
						OVER-RIDE		
B			POWER SWITCH LAMPS		POWER REQUEST	CROWBAR RLS		
						POWER ALLOW	LATCH SET	
					POWER OK	LOW VOLTAGE		
		K732		W023		K713	K113	K303
	K732 OVER HANG			THERM-ISTOR AMPL TO J4 ALSO J2		POWER ALLOW	POWER REQUEST	SHUT-DOWN DELAY
C			+5V 2A SLAVE REG			OVER-TEMP LATCH	POWER ALLOW	RECYCLE DELAY
		K731		W023	K003	K026	K113	K303
	K731 OVER HANG	+5V 1A REG		J2 J1 J3	POWER REQUEST	POWER REQUEST	POWER DOWN LATCH	POWER SWITCH LAMP
D					OVER-TEMP LATCH CLR			
						POWER ALLOW		LOW VOLTAGE OFF DELAY

K614	K732	K731	K138	K003	K026	K113	K303	K372
								SHUT-DOWN DELAY

NOTE: * K614 MUST BE ETCH REV D AND CIRCUIT SCHEMATIC REV F OR LATER.
** W519 MUST BE ETCH REV E OR ABOVE

→ UP LEFT HAND MTG (K110)
← UP RIGHT HAND MTG (PERIPERALS)

BUS PINS A & C IN EACH MODULE ROW

REVISIONS			
REV	CHANGE NO	CHK	
A	61		

DEC FORM NO DRD 102-B

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
K110		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES
DECIMALS: .XXX ± .005, .XX ± .02, .X ± .1 — ANGLES: ±0° 30'
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓
MATERIAL
FINISH

DRN. W. Stephenson	DATE 11/3/72	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
CHK'D. Allan Kent	DATE 23 May 72	
ENG. Allan Kent	DATE 23 May 72	
PROJ. ENG. Allan Kent	DATE 23 May 72	
PROD.	DATE 5/23/72	

TITLE: MODULE UTILIZATION

NEXT HIGHER ASSY. B-DD-857-Ø
SCALE ~
SHEET 1 OF 1

SIZE	CODE	NUMBER	REV.
D	MU	857 - Ø - MUAD	b

DIST.

SIZE D MU 857-Ø-MUAD REV B

SIZE CODE D MU NUMBER 857-Ø-MUAD REV F

CABLE TO PROCESSOR LOGIC

PIN	SIGNAL	INPUT OUTPUT
J1-1	POWER DOWN ALARM(L)	OUTPUT
2	RESTART (1) L	OUTPUT
3	RESTART CLR H	INPUT
4	RESTART SET H	INPUT
5	GROUND	—
6	SPARE	—

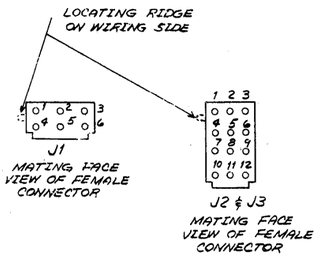
THERMISTOR CABLE

PIN	SIGNAL	
J2-1	THERMISTOR 7	
2		7 RET
3		8
4		9
5		9 RET
6		8 RET
7		10
8		10 RET
9		11
10		12
11		12 RET
12	THERMISTOR 11 RET	

857
858 JUMPER CABLE

	PIN	SIGNAL	INPUT OUTPUT
	J3-1	POWER REQUEST H	INPUT
	2	POWER DOWN LATCH (1) H	INPUT
	3	POWER ON COMMAND	INPUT
	4	LOW VOLTAGE L	OUTPUT
	5	(BUS POWER REQUEST L)	(ONLY IN 857)
	6	CROWBAR RELEASED H	INPUT
	7	POWER OK (857) L	INPUT
	8	+5V	INPUT
	9	AUX TEMP OK H	OUTPUT
	10	GROUND	—
	11	∿POWER REQUEST H	INPUT
*	12	SYSTEM POWER ON L	OUTPUT

* THIS PIN IS NOT USED IN MULTIPROCESSOR SYSTEMS WITH A MASTER SYSTEM CONTROL PANEL.



	1	2	3	4	5	6	7	8
A	K652		W023	K026	K113	K003	K113	W509
	SYSTEM POWER ON		J1 & J3 CONNECTIONS	RESTART PULSE	POWER DOWN ALARM	POWER DOWN ALARM	LOW VOLTAGE	LOW VOLT DET PHASE A
				STRETCHER CLR	RESTART P.S. CLR	AUX TEMP	AUX TEMP	PHASE B
				RESTART P.S. SET	RESTART P.S. SET	OK	OK	PHASE C
B		X	K271	K731	W023	K522YA	K522YA	K522YA
		K271 OVERHANG * NOTE	RESTART	+5V REG.	THERMISTORS AMPL TO J2	TEMP 7 OK	TEMP 9 OK	TEMP 11 OK
						TEMP 8 OK	TEMP 10 OK	TEMP 12 OK

K652 OVERHANG

BUS PIN ROWS A & C IN BOTH MODULE ROWS

NOTE * K271 MUST BE REMOVED BEFORE INSTALLING K731 FOR USE WITHOUT AN ASSOCIATED 857 POWER CONTROL

REF. DES.	DESCRIPTION	PART NO
T4	TRANSF. 12.6V, 15V	1610443
T1, T2, T3	TRANSF. PRECISION 12V	1610618
S2	SWITCH ROTARY 3 PB 10 POS REINFORCED	7409704-1
S1	SWITCH TOGGLE 12ATT1-T2	1201168
D1	RECT. 12A 400V MDA 980-1	1110168
C2, C3	CAP. 6,500 MF 25V	1009493
C1	CAP. 160,000 MF 20V	1004874

FIRST USED ON OPTION/MODEL: KI10

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES

DECIMALS	ANGLES
.XXX = .005 .XX = .02 .X = .1	±0° 30'

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL

FINISH

		DATE
DRN	W Stephenson	9/1/72
CHKD	Allan Kent	9/1/72
ENG	Allan Kent	9/1/72
PROJ. ENG	Allan Kent	9/1/72
PROD		

NEXT HIGHER ASSY: B-DD-857-Ø

SCALE: ~

SHEET 1 OF 1

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE: MODULE UTILIZATION

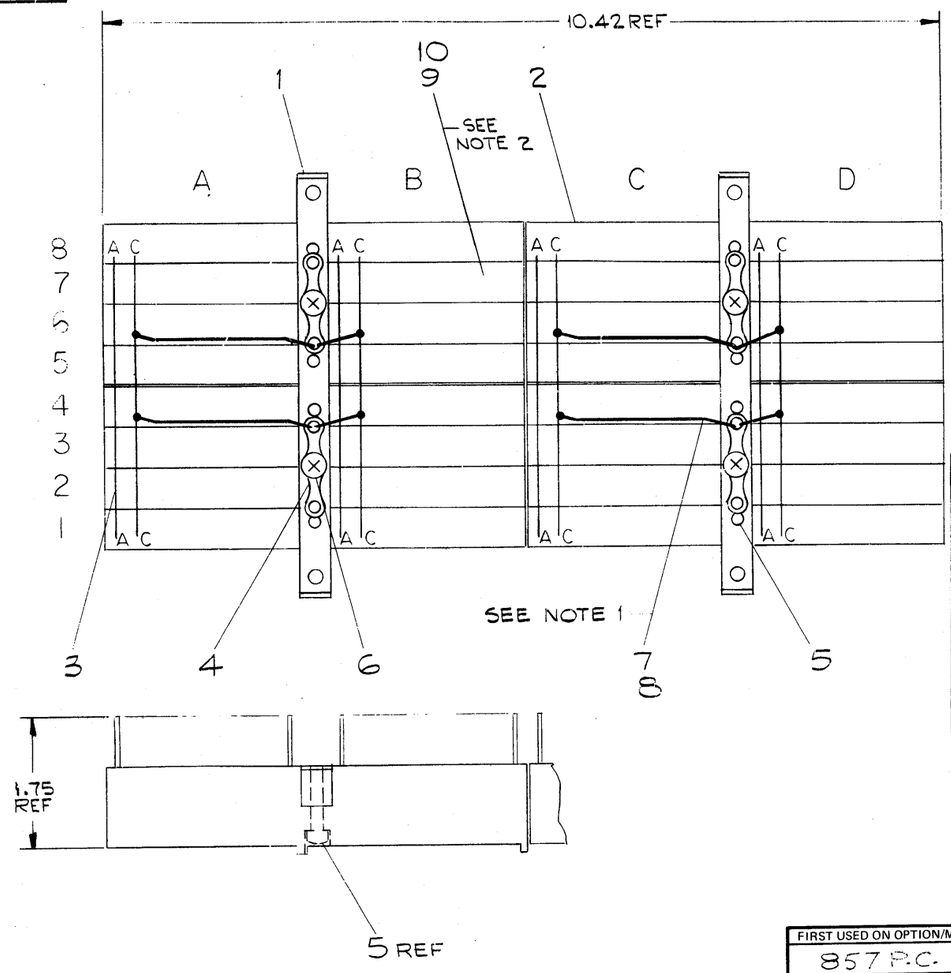
SIZE: D | CODE: MU | NUMBER: 858-Ø-MUAB | REV:

DIST:

REVISIONS: REV | CHANGE NO | CHK

FORM NO. DRD 102-B

SIZE CODE D MU | NUMBER 858-Ø-MUAB | REV



NOTES:
1. CONNECTIONS ON ITEMS 3 & 7 TO BE LOCATED AT MINIMUM PRACTICAL HEIGHT ABOVE BLOCKS.
2. USE YEL WIRE ITEM #9 FOR NUMERICALLY CONTROLLED WRAPPING (GARDNER DENVER AND NC HAND WRAP) USE BLU WIRE ITEM #10 FOR UNAIDED HANDWRAP (GARDNER DENVER REWORK, AWT REWORK ETC).

R13	1	RES 470 1/4 W 10% CC	7404646	18
	REF	WIRE LIST		X
C8,C9	2	CAP, 2.2 μF, ±10% 20VDC	7405962	17
C7	1	CAP, 15 μF, ±10% 20VDC	7409712	16
C6	1	CAP, 39 μF, ±10% 10VDC	7405963	15
R5	1	RES 220K 1/4W 5% CC	7409711	14
R7	1	RES 180K 1/4 10% CC	7409710	13
R4,R8	2	RES 150K, 1/4W 5% CC	7406519	12
R6 R9-R12	5	RES 1.8K 1/4W 5% CC	7409709	11
	A/R	#24 AWG SOLID KYNAR INS BLU	9107586-66	10
	A/R	#24 AWG SOLID KYNAR INSYEL	9107586-44	9
	A/R	#22 TJBING WHT	9107265-09	8
	A/R	#22 AWG BUSS WIRE	9107560-01	7
	4	SCR, PHL HD TAPITE #8-32×3/8 LG	9006418	6
	8	SCR, FIL HD POSIDRIVE #8-32×5/8 LG	9006120	5
	4	GRD LUG SHAKEPROOF 2116-08-00	9007597	4
	A/R	CHAIN, VOLTAGE	1202188	3
	4	144 PIN CONN BLOCK #H800-W	1202244	2
DESG.	2	CONN MTG BAR	B-MD-7409609-0-0	1

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
857 P.C.		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES
DECIMALS: .XXX = .005, .XX = .02, .X = .1 — ANGLES: ±0° 30'
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓
MATERIAL —
FINISH —

		DATE
DRN.		
CHK'D.		5/14/72
ENG.		
PROJ. ENG.	Allen Kent	23 May 72
PROD.		

NEXT HIGHER ASSY. D-UA-857-0-0
SCALE 1/1
SHEET 1 OF 2

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE
WIRED ASSY
857 POWER CONTROL

SIZE	CODE	NUMBER	REV.
C	AD	7008893-0-0	A

DIST.

REVISIONS			
CHK	CHANGE NO.		REV.
	857-0000.2	12-2-72 A. KENT	A
Allen Kent	Allen Kent 8 Jan '72		

DEC FORM NO. DRC 1001-A

EXTERNAL COMPONENTS

ITEM NO.	DESCRIPTION	FROM CONNECTION	TO CONNECTION	REMARKS
11	RESISTOR	AØ3A	AØ3L	1.8K±5% 1/4W
11	↕	BØ6A	BØ6H	↕
11	↕	BØ6A	BØ6K	↕
11	↕	BØ6V	CØ6A	↕
11	↕	BØ7U	CØ6A	1.8K± 5% 1/4W
18	RESISTOR	BØ7T	CØ7A	470 ± 10% 1/4W
12	RESISTOR	CØ7C	CØ8P	150K±5% 1/4W
12	RESISTOR	DØ8C	DØ8J	150K±5% 1/4W
13	RESISTOR	DØ7C	DØ8P	180K±5% 1/4W
14	RESISTOR	DØ7C	DØ8V	220K±5% 1/4W
15	CAPACITOR	CØ7C	CØ8P +	39µF±10% 10V
16	CAPACITOR	DØ6C	DØ8V +	15µF±10% 20V
17	CAPACITOR	DØ6C	DØ8P +	2.2µF±10% 20V
17	CAPACITOR	DØ7C	DØ8J +	2.2µF±10% 20V

NOTE: LAST LETTER SHOWN IN CONN. CHART DESIGNATES PIN LTR ON 144 PIN BLOCK.

ALL RES.& CAP. ARE SUPPLIED WITH INSULATION & TERMIPOINTS.

REVISIONS: REV. | CHANGE NO. | CHK

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
857 P.C.	PARTS LIST			

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES

DECIMALS	ANGLES
.XXX = .005 .XX = .02 .X = .1	±0° 30′

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL —/—/—

FINISH —/—/—

		DATE
DRN.	[signature]	23MAR72
CHK'D.	[signature]	5/19/72
ENG.	[signature]	5/?/72
PROJ. ENG.	Allan Kent	23 May 72
PROD.	[signature]	5/23/72

NEXT HIGHER ASSY. D-UA-857-0-0

SCALE

SHEET 2 OF 2

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE WIRED ASSY 857 POWER CONTROL

SIZE	CODE	NUMBER	REV.
C	AD	7008893-0-0	-

DIST. C

SIZE C CODE AD NUMBER 7008893-0-0 REV. A

REV.	NUMBER	SIZE	CODE
A	857-Ø-WL	K	WL

REVISIONS	REV.	CHK	CHANGE NO.
	A	ØM	857-00003

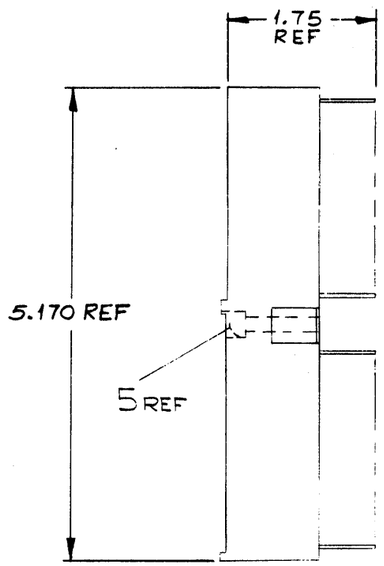
E. ALLain 8-31-73
A. KENT
Allan Kent 13 Sept 73

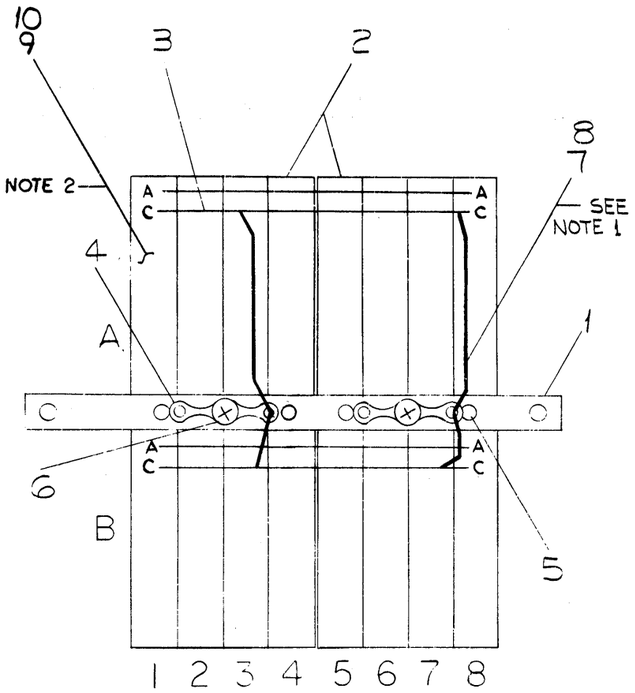
DEC FORM NO. DRB 109

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
KIIØ		PARTS LIST		

DRN. W. Hoyt	DATE 4-28-72	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D Allan Kent	DATE 26 May 72	
ENG. Allan Kent	DATE 26 May 72	TITLE WIRE LIST 857 PWR CONT.
PROJ. ENG. Allan Kent	DATE 26 May '72	
PROD.	DATE 5/31/72	
NEXT HIGHER ASSEMBLY B-DD-857-0		SIZE K CODE WL NUMBER 857-Ø-WL REV. A
SCALE		
SHEET 1 OF 1		DIST.

NOTES:
1. CONNECTIONS ON ITEM 3 & 7 TO BE LOCATED AT MINIMUM PRACTICAL HEIGHT ABOVE BLOCKS.
2. USE YEL WIRE ITEM #9 FOR NUMERICALLY CONTROLLED WRAPPING (GARDNER DENVER AND NC HANDWRAP) USE BLU WIRE ITEM #10 FOR UNAIDED HAND WRAP (GARDNER DENVER REWORK, AWT REWORK ETC.)





EXTERNAL COMPONENTS

ITEM NO	DESCRIPTION	FROM CONNECTION	TO CONNECTION	REMARKS
11	RESISTOR	AØ4C	AØ4N	WITH INS TERMI POINTS
11	RESISTOR	AØ4S	BØ4C	WITH INS TERMI POINTS
12	RESISTOR	AØ8P	AØ8C	WITH INS TERMI POINTS
12	RESISTOR	AØ8T	BØ8C	WITH INS TERMI POINTS

QTY.	DESCRIPTION	PART NO.	ITEM NO.
2	RES 200 2W 5%	7410679	12
REF	WIRE LIST		X
2	RES 1K 1/4W 5%	7405969	11
A/R	#24 AWG SOLID KYNAR INS (BLU)	9107586-66	10
A/R	#24 AWG SOLID KYNAR INS (YEL)	9107586-44	9
A/R	#22 TUBING WHT	9107265-09	8
A/R	#22 AWG BUS WIRE	9107460-01	7
2	SCR, PHL HD TAPTITE #8-32 x 3/8 LG.	9006418	6
4	SCR, FIL HD POSIDRIVE #8-32 x 5/8	9006120	5
2	GND LUG SHAKEPROOF 2116-08-00	9007597	4
A/R	CHAIN VOLTAGE	1202188	3
2	144 PIN CONN BLOCK H800-W	1202244	2
1	CONN MTG BAR	B-MD-74096320-0	1

FIRST USED ON OPTION/MODEL: 858 P.C.

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES

DECIMALS	ANGLES
.XXX .005 .XX .02 .X .1	±0° 30'

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL —

FINISH —

		DATE
DRN.	W. Hovey	3-27-72
CHK'D.	[illegible]	5/11/72
ENG.	M. Hyde	5/22/72
PROJ. ENG.	Allan Kent	23 May 72
PROD.	—	DATE

NEXT HIGHER ASSY. D-UA-858-0-0

SCALE 1/1

SHEET 1 OF 1

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE: WIRED ASSY 858 POWER CONTROL

SIZE	CODE	NUMBER	REV.
C	AD	7008895-0-0	A

DIST.

REVISIONS			
CHK	CHANGE NO.	REV.	
KB	858-00001	A	Trans 11-3-72
	KENT		Allan Kent 21 Nov 72

DEC FORM NO. DRC 100-A

REV.	NUMBER	SIZE	CODE
	858-Ø-WL	K	WL

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
KIIØ		PARTS LIST		

DRN. W. Hardy	DATE 4-28-72	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D. Allan Kent	DATE 26 Nov 72	
ENG. Allan Kent	DATE 26 Nov 72	TITLE WIRE LIST 858 AUX POWER CONT.
PROJ. ENG. Allan Kent	DATE 26 Nov 72	
PROD. [illegible]	DATE [illegible]	
NEXT HIGHER ASSEMBLY B-DD-858-Ø		SIZE K / CODE WL / NUMBER 858-Ø-WL / REV.
SCALE 4		DIST.
SHEET 1 OF 1		

REVISIONS | REV. | CHANGE NO. | CHK

DEC FORM NO. DRB 109

MR

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY D.SIREEN DATE 3/8/72	CHECKED D.HEALY DATE 3/30/72	SECTION 1
ENG [signature] DATE 5/22/72	PROD [signature] DATE 5/23/72	ISSUED SECT. 1

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY/VARIATION
1	E-IA-7409611-0-0	CHASSIS	1
2	D-IA-7409619-0-0	HOUSING, CAPACITOR	1
3	C-IA-7409607-0-0	COVER, PWR CONTROL	1
4	D-IA-7409626-0-0	BRKT., CONN.	1
5	C-MD-7409621-0-0	HINGE, COVER	1
6	C-MD-7409614-0-0	OUTLET, PLATE	1
7	D-MD-7409615-0-0	COVER	1
8	C-MD-7409620-0-0	PLATE, END	1
9	1209158-0	TERMINAL BLOCK 3 SEC #529 BUCHANAN	3
10	1209158-1	END SECTION #530 BUCHANAN	1
11	D-AD-7008875-0-0	TRANSFORMER ASSY	1
12	E-AD-7008874-0-0	SWITCH CABLE ASSY	1
13	E-IA-7008881-0-0	WIRE HARNESS 857 P.C.	1
14	1209406-03	CONTACTOR 30A. 2P SER/PAR OR USE -01	1
15	1605147	FERRITE TUBE #56-261-30-3B	2
16	1201219	CIRCUIT BREAKER 30A	1
17	1201280	LAMP #1020-C55 125V RED LENS INDUS DEV	1
18	1004874	CAPACITOR 160,000 20V	1
19	1009493	CAPACITOR 6,500 25V	1
20	1300172	RESISTOR 10Ω 2W 10%	2
21	1002153	CAPACITOR 2X .01 UF 1000 VDC	3
22	1210584	IND SOCKET #59-52380-41-25 MARCO OAK	4

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
857 POWER CONTROL	D-UA-857-0-0	A	PL	857-0-0	F	857 MR009
	SHEET 1 OF 5	DIST.	G			

DEC FORM NO.
DRA 110

MR

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY D. SIREEN DATE 3/10/72	CHECKED D. HEALY DATE 3/30/72	SECTION 1
ENG [signature] DATE 5/22/72	PROD [signature] DATE 5/23/72	ISSUED SECT. 1

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY/VARIATION
23	9007231	BUSH. JUNC. TERM DC-202 (RED) HEYMAN	8
24	9007235	BUSH. JUNC. TERM DC-202 (WHT) HEYMAN	8
25	9007239	TERMINAL INSERT #T-202-D HEYMAN	21
26	1205351	RECEPTICAL DEL #10103 115V 15A A.H.	2
27	C-AD-7008893-0-0	WIRED ASSY 857 POWER CONTROL	1
28	1210628-0-0	LAMP, INDICATOR 18V T-1-3/4 (CM370)	4
29	9007013	GROMMET (GEN. CEMENT #1041)	1
30	A-PS-3610267-0-0	STICKER, (DANGER HIGH VOLTAGE)	1
31	9007917-0	CONN. ARK-LESS #50902 (RED)	11
32	1209379-0-0	MATE-N-LOCK PIN 20-14 AWG	7
33	9007237	BUSH JUNC TERM DC-202 BLK HEYMAN	5
34	9006458	POP RIVET 1/8 DIA #AD4262 USMC	3
35	9007928-0	CONN ARK-LESS#50364 (BLU)	3
36	9107278-02	TUBING #18 AWG (RED)	A/R
37	9007930-0	CONN ARK-LES #50360-1 (RED)	5
38	9107440-29	#14 AWG WIRE RED/WHT TWP	A/R
39	9107370-99	#14 AWG WIRE STRD INS (WHT)	A/R
40	9107370-22	#14 AWG WIRE STRD INS (RED)	A/R
41	9107360-33	#18 AWG WIRE STRD INS (ORN)	A/R
42	9107360-00	#18 AWG WIRE STRD INS (BLK)	A/R
43	9107360-22	#18 AWG WIRE STRD INS (RED)	A/R
44	9107360-11	#18 AWG WIRE STRD INS (BRN)	A/R

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
857 POWER CONTROL	~~D-UA-857-0-0~~	A	PL	857-0-0	F	
	SHEET 2 OF 5	DIST.	G			

DEC FORM NO.
DRA 110

MR

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY D. SIREEN DATE 3/10/72	CHECKED D. HEALY DATE 3/30/72	SECTION 1
ENG DATE 5/22/72	PROD DATE 5/23/72	ISSUED SECT. 1

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY/VARIATION
45	9107430-56	#18 AWG WIRE GRN/BLU TWP	A/R
46	9107430-11	#18 AWG WIRE BRN/BRN TWP	A/R
47	9007776	FASTON TAB #61349-1 AMP	2
48	9008892	TAB DBL FASTON W/#10 HOLE	2
49	D-MU-857-Ø-MUAD	MODULE UTILIZATION	REF
50	9008104	DOT FASTENER #48192 3/8HOLE	1
51	1209351-6	CONN 6-PIN MATE-N-LOK	1
52	9007880	TIE WRAP #SST-1.5M PANDUIT	A/R
53	9107278-09	TUBING 18AWG (WHT)	A/R
54	9006041-1	SCR. PHL HD PAN #8-32 X .75LG.	4
55	9006037-1	SCR. PHL HD PAN #8-32 X .38 LG.	6
56	9006021-1	SCR. PHL HD PAN #6-32 X .31 LG.	26
57	9006023-1	SCR. PHL HD PAN #6-32 X .44 LG.	2
58	C-DC-7409692-0-0	DECALS, 857 POWER CONTROL	1
59	9006022-1	SCR. PHL PAN HD #6-32 X .38 LG.	4
60	9006633	WASHER, LKG INT TOOTH #6	24
61	9006634	WASHER, LKG INT TOOTH #8	6
62	9006560	NUT KEPS #6-32	19
63	9006563	NUT KEPS #8-32	4
64	9006712	WASHER, NYLON 3/8 O.D. X 1/4I.D. X 1/32 THK	2
65	9008091	WIRE SPLICE#34203 ARK-LES	3
66	9107360-99	#18 AWG WIRE STRD INS (WHT)	A/R

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
857 POWER CONTROL	D-UA-857-0-0	A	PL	857-0-0	F	
	SHEET 3 OF 5	DIST.	G			

DEC FORM NO.
DRA 110

MR

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY D. SIREEN DATE 3/10/72	CHECKED D. HEALY DATE 3/30/72	SECTION 1
ENG DATE 5/22/72	PROD DATE 5/23/72	ISSUED SECT. 1

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY/VARIATION
~~67~~	~~9107370-00~~	~~#14 AWG STRD INS (BLK)~~	~~A/R~~
68	K614	QUAD INSULATED AC SWITCH (NOTE 1)	1
69	K683	8 LAMP DRIVERS	1
70	K522YA	DUAL SENSOR CONVERTER	3
71	K138	8 INVERTERS	2
72	KØØ3	TRIPLE EXPANDER	2
73	W519	TIMING & CROWBAR	1
74	K113	TRIPLE INVERTER GATE	3
75	KØ3	TRIPLE TIMER (ONE SHOT)	2
76	K731	+5V REGULATOR & CONTROL	1
77	K732	+5V AUX REGULATOR	1
78	KØ26	TRIPLE AND/OR EXPANDER	1
79	K372	CLOCK CONTROL	1
80	9007834	TAPE #4032 1/2 WIDE 3M CO.	A/R
81	7411468-1	JUMPER PLUG FOR 857 POWER CONTROL (P1)	1
82	7411468-2	JUMPER PLUG FOR 857 POWER CONTROL (P3)	1
83	7411468-3	JUMPER PLUG FOR 857 POWER CONTROL (P8)	1
84	9008442	CABLE CLAMP	1
85	1211204	RECEPTICAL G.E.#40921 230V 15A.	*
86	9007926-01	CONN RING TERM #10 AWG YEL	11
87	9007920	CONN ARKLESS YELLOW	11
88	9007969	CONN ARKLESS #14 AWG (BLUE)	16

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
857 POWER CONTROL	D-UA-857-0-0	A	PL	857-0-0	F	
	SHEET 4 OF 5	DIST.	G			

DEC FORM NO.16-1031
DRA 110

MR

M.R

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

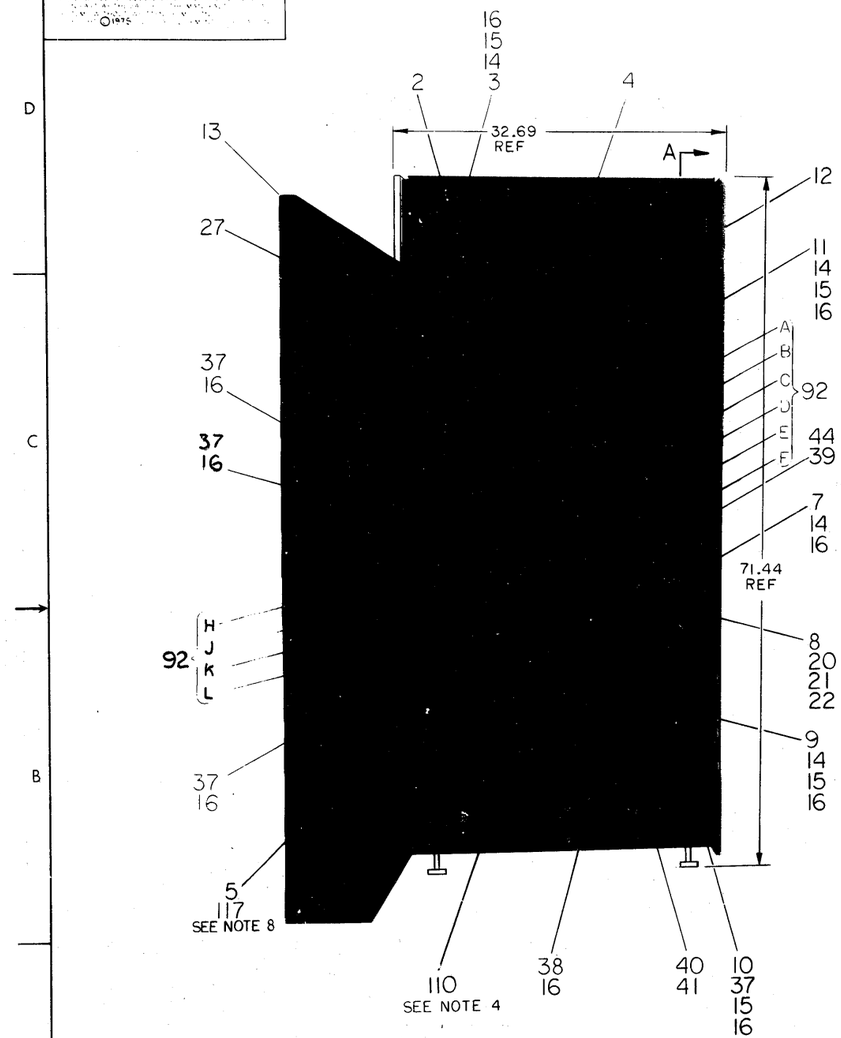
MADE BY D. SIREEN	CHECKED D. HEALY	SECTION
DATE 3/10/72	DATE 3/30/72	1
ENG D. NEVALA	PROD R. HESSELTINE	ISSUED SECT.
DATE 3/10/72	DATE 3/30/72	1

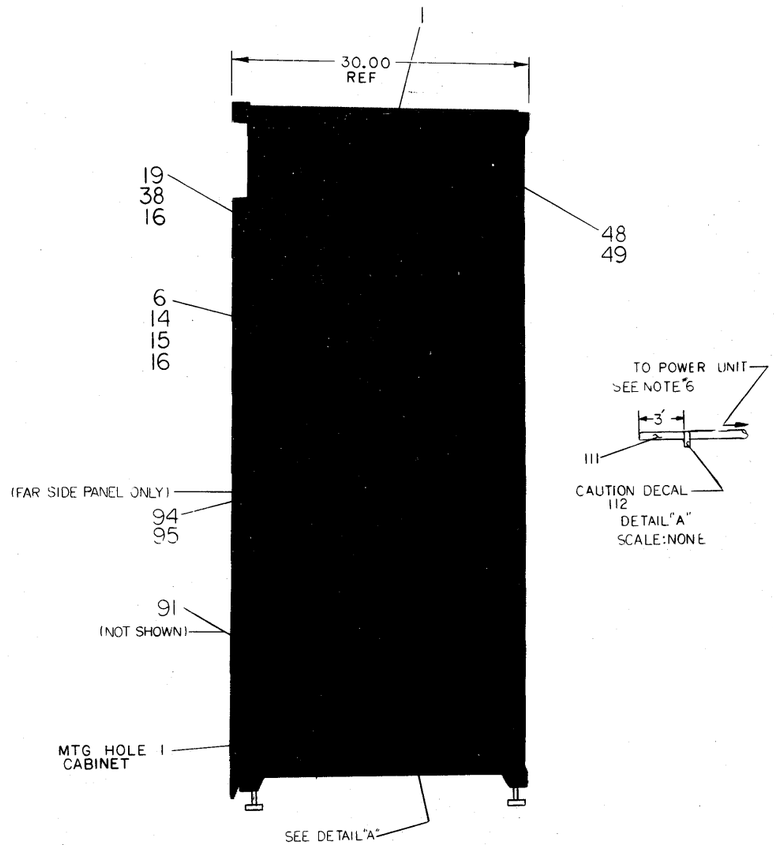
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
89	A-DC-7418808-0-0	DECAL WARNING	2
90	A-DC-7417418-0-0	DECAL (NOT FOR EXTERNAL LOADS)	1
91	A-DC-7418806-1	DECAL F1 15 AMP 250 VOLT	1
92	A-DC-7418807-1	DECAL F2 15 AMP 250 VOLT	1
93	1214185	FUSE 15 AMP 250 VOLT	3
94	1214186	FUSE HOLDER	3
95	9107390-99	#10 AWG WIRE INS STD (WHT)	A/R
96	9107390-22	#10 AWG WIRE INS STD (RED)	A/R
97	9006024-01	SCR PHL HD PAN 6-32 x 1/2	10
98	9006793	SPACER 3/16," 6-32	4
99	D-IA-7418783-0-0	CONTACTOR BRKT MTG	1
100	9006074-03	SCR PHL TRUSS HD #10-32 X 5/8	2
101	9007651	WASHER, LKG EXT TOOTH #10	2
102	9007242	FUSE HOLDER 20 AMP HKP	1
103	9008292	WASHER INTERNAL TOOTH	1
104	9007216	FUSE 2 AMP SLO-BLOW	1
105	A-DC-7418890-0-0	DECAL F3 2 AMP 250 VOLT	1
106	A-DC-7420393-0-0	DECAL F4 15 AMP 250 VOLT	1
107	9007193	DOUBLE FAST-ON CONNECTOR	2
108	9107777-54	WIRE #14 AWG GRN/YEL	A/R
109	9107779-54	WIRE #10 AWG GRN/YEL	A/R
	NOTE 1: K614 MUST BE	ETCH REV D & CS REV F OR LATER	

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
857 POWER CONTROL	D-UA-857-Ø-Ø	A	PL	857-Ø-Ø	F	
	SHEET 5 OF 5	DIST.				

DEC FORM DEC 16 (325) 1031 N870
DRA 110

M.R





NOTES:

1. FOR DRAWING DIRECTORY LIST REFER TO B-DD-MG10-0.
2. FOR ASSY INSTRUCTIONS REFER TO D-OC-H950-0-0, D-OC-H951-0-0, D-OC-H952-0-0, D-OC-H955-0-0.
3. FOR AC-DC WIRING REFER TO D-IC-MG10-0-PW.
4. USE ITEM NO. 110 FOR JUMPER SELECTIONS AS INDICATED ON INSTRUCTION SHEETS MG10-0-IS0 AND MG10-0-IS1.
5. REMOVE CORD CAP ON POWER CORD ASSY ITEM 111 FROM ALL 50 HZ UNITS AFTER FINAL ASSEMBLY AND TEST.
6. ATTACH CAUTION DECAL (ITEM #112) 3FT FROM THE PLUG END OF POWER CORD (ITEM #111) WRAP DECAL AROUND CORD AND STICK ADHESIVE TO ITSELF
7. CONNECT GROUND STRAPS (ITEM 113) FROM H742Ø GND. STUDS TO HOLES #62, 44, AND 26 WITH ITEMS #14, 16, AND 114.
8. ADD EXTERNAL COMPONENTS PER B-CP-MG10-0-EC (ITEM 117).
9. INSTALL KIT PER ITEM 116 WHEN I.E.C. 435 REQUIREMENTS MUST BE MET.
10. WHEN USING THREE H742Ø POWER SUPPLIES PLUG THE MIDDLE H742Ø INTO THE SWITCHED 2 OUTLET ON THE B57 POWER CONTROL.
11. CONNECT GROUND STRAP (ITEM 118) FROM HOLE #28 ON CAB TO HOLE #28 ON DOOR USING ITEMS 14, 16 AND 114.

ECO	ITEM/Mod No.	REV.	
EP	MG10-00001	A	2/11/76 A. KNOX
#21	MG10-00002	B	1-6-76 D.CHIN
#31	MG10-00004	C	1-8-76 P. Bryce 2 JUNE 76 D. CHIN
DC	MG10-00007	D	10 JUNE 76 P. Bryce 2 MAR 77 D. CHIN
#31	MG10-00009	E	11 MAR 77 P. Bryce 24 MAY 77 D. CHIN
#21	MG10-MR010	F	15 JUN 77 G. Wacek 21 NOV 77 L. BALES

SEC FORM NO. DAD 107-C

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
MG10		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES
TOLERANCES
DECIMALS .xxx ± .005, .xx ± .02, .x ± .1
ANGLES ± 0 30'
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ▽

MATERIAL —
FINISH —

		DATE
DRN.	J. Hrusak	2/25/75
CHK'D	J. Hrusak	2/26/75
ENG		3/4/75
PROJ. ENG	D. Chin	3/5/73
PROG		3/5/75

NEXT HIGHER ASSY. B-DD-MG10-0
SCALE NONE
SHEET 1 OF 3

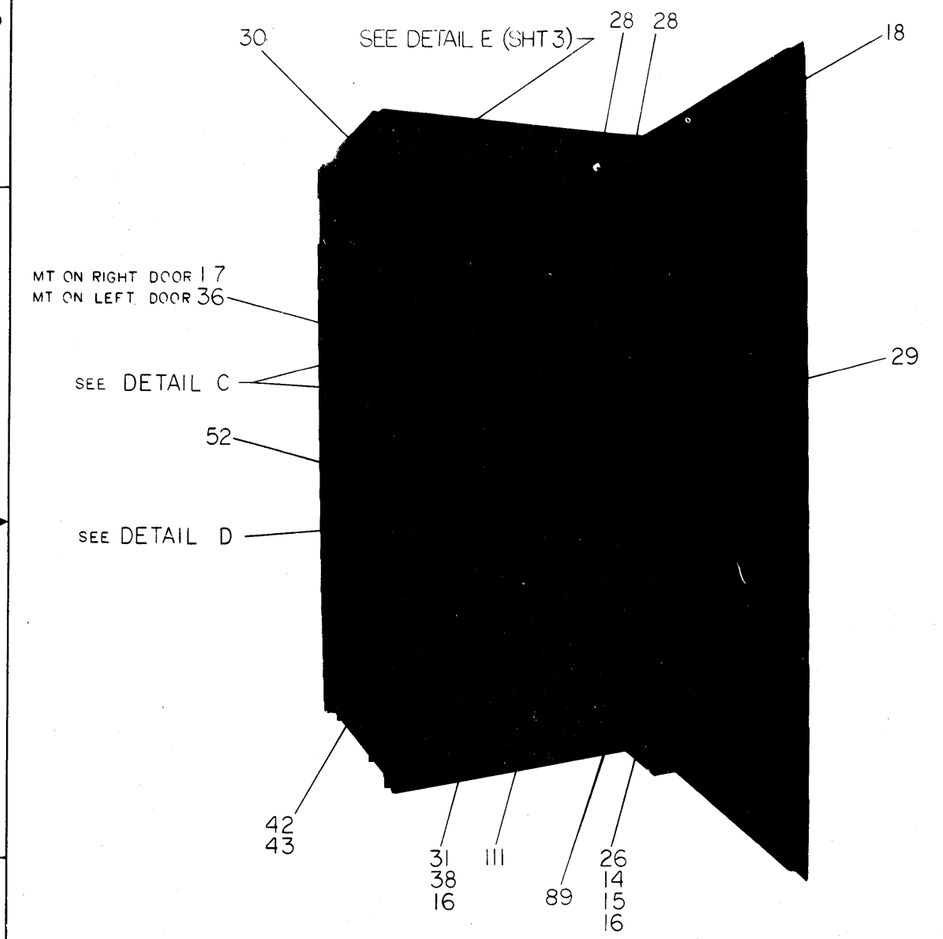
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

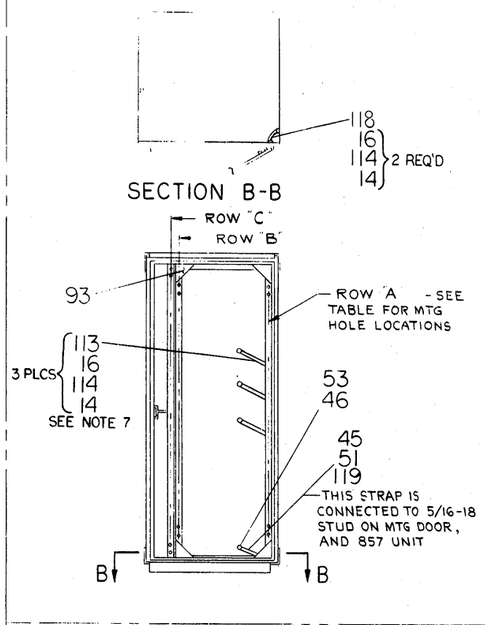
TITLE
CORE MEMORY
(MG10)

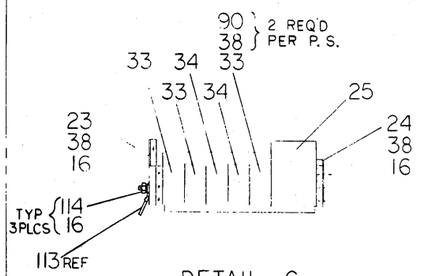
SIZE	CODE	NUMBER	REV.
D	UA	MG10-0-0	F

DIST

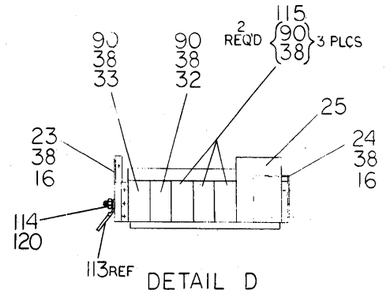
LOC D UA MG10-0-0 F



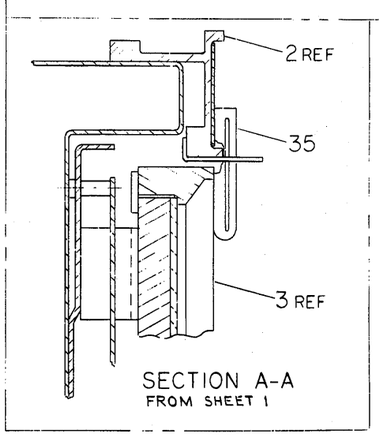




DETAIL C



DETAIL D



SECTION A-A
FROM SHEET 1

LOCATION OF SPEED NUTS ITEM 15		
FRONT OF CABINETS TYP RIGHT AND LEFT SIDES		
1, 3, 17, 30, 33, 42, 54, 63, 77, 86, 90, 95(RT. ONLY), 100, 103, 107		
REAR MOUNTING DOOR HOLE LOCATIONS		
ROW "C"	ROW "B"	ROW "A"
44, 50, 55, 57, 62, 68 **73, 75, 80, 86, 91, 93**	3*, 16*	3*, 16*, 44, 53*, 56, 62, 71*, 74, 80, 89*, 93

* DENOTES HOLES WITH SPEED NUTS

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
MGIØ	PARTS LIST			

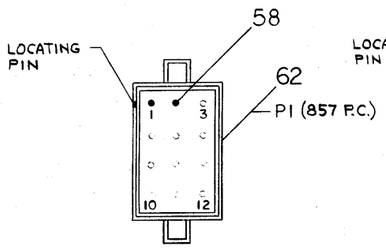
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES
TOLERANCES
DECIMALS: .xxx ± .005, .xx = .02, .x = .1 — ANGLES: ±0° 30'
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY 1
MATERIAL
FINISH

DRN. J. Murnik	DATE 2/25/75	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
CHK'D. J. Murnik	DATE 2/26/75	
ENG.	DATE 3/5/75	
PROJ. ENG. D. J. Elson	DATE 3-5-75	TITLE: CORE MEMORY (MGIØ)
PROD.	DATE 3-5-75	
NEXT HIGHER ASSY. B-DD-MGIØ-Ø		SIZE D, CODE UA, NUMBER MGIØ-Ø-Ø, REV. F
SCALE NONE		
SHEET 2 OF 3		DIST.

DUA MGIØ-Ø-Ø F

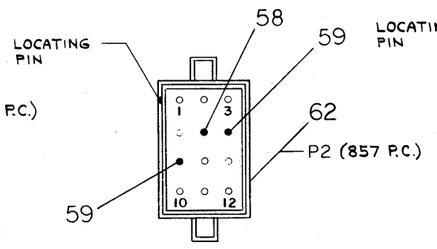
WIRE TABLE

ITEM NO.	DESCRIPTION AWG	COLOR	FROM CONNECTION	FROM TERM	TO CONNECTION	TO TERM	REMARKS
54	18	BRN	P1-1 (857 P.C.)	58	P1-2 (857 P.C.)	58	
54	18	BRN	P3-5 (857 P.C.)	58	P3-12 (857 P.C.)	58	
54	18	BRN	P8-1 (857 P.C.)	58	P8-2 (857 P.C.)	58	
54	18	BRN	P8-3 (857 P.C.)	58	P8-4 (857 P.C.)	58	
55	18	YEL	P2-5 (857 P.C.)	58	P1-3 (VANE SW)	58	
56	18	RED	P2-5 (H742 P.S.)	58	P1-2 (FAN CONN.)	58	LOWEST H742 (15 PIN CONN.)
56	TWP	WHT	P2-6 (H742 P.S.)	58	P1-1 (FAN CONN.)	58	
57	22	BLU	P2-6 (857 P.C.)	59	J1-2	64	
57	TWP	BLK	P2-7 (857 P.C.)	59	J1-1	64	



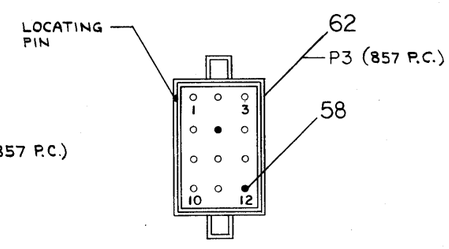
REAR VIEW

PIN INSERTION SIDE
SCALE: NONE



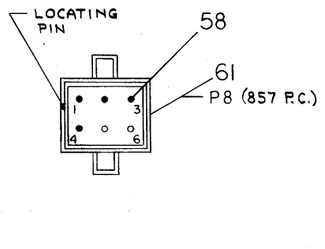
REAR VIEW

PIN INSERTION SIDE
SCALE: NONE



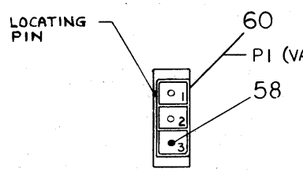
REAR VIEW

PIN INSERTION SIDE
SCALE: NONE



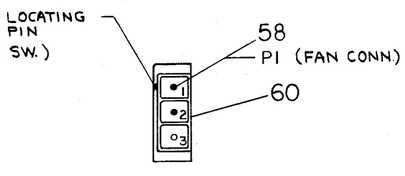
REAR VIEW

PIN INSERTION SIDE
SCALE: NONE



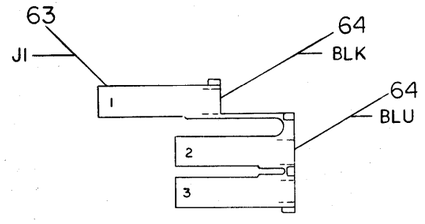
REAR VIEW

PIN INSERTION SIDE
SCALE: NONE



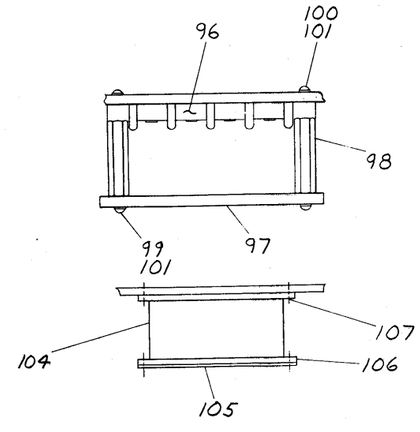
REAR VIEW

PIN INSERTION SIDE
SCALE: NONE



CONNECTOR
(LOGIC DOOR MIN. SW.)
SCALE: NONE

DETAIL E



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
CORE MEMORY (MGIØ)	D	UA	MGIØ-Ø-Ø	F
SCALE NONE	SHEET 3 OF 3		DIST.	

DEC FORM 12
DRD 137

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY J. MISIUK	CHECKED	SECTION
DATE	DATE	
ENG	PROD	ISSUED SECT.
DATE	DATE	

ITEM NO	DWG NO. / PART NO.	DESCRIPTION	QUANTITY VARIATION												
			MG1Ø-A	MG1Ø-G	MG1Ø-H	MC1Ø-G	MG1Ø-E *								
1	E-AD-7008554-4-0	CABINET ASSY	1	1	1										
2	D-UA-H955-LA-Ø	H955-L LOGO (BLANK BLU)	1	1	1										
3	E-AD-7006671-7-0	INDICATOR PNL ASSY 30 IN	1	1	1										
4	E-AD-7010235-0-0	LOGIC ASSY STACK	1	1	1										
5	D-AD-7010225-0-0	LOGIC ASSY CONTROL WITH I/O ASSY	1	1	1										
6	E-IA-7010290-0-0	COOLING ASSY, MEMORY/LOGIC	1	1	1										
7	D-IA-7412844-0-0	SUPPORT, SWITCH PLATE	1	1	1										
8	D-UA-5411446-0-0	SWITCH PLATE ASSY	1	1	1										
9	C-MD-7412682-0-0	SPACER COVER	1	1	1										
10	D-MD-7412816-0-0	BAR SUPPORT, I/O CONN PLATE	1	1	1										
11	D-MD-7413001-0-0	FILLER PANEL	1	1	1										
12	D-UA-H952-AC-Ø	END PANEL (H952-A)	2	2	2										
13	D-UA-H951-BB-Ø	SHORT DOOR ASSY	1	1	1										
14	9006074-3	SCREW PHL TRUSS HD #10-32 X .62 LG SST	41	41	41										
15	9007786	SPEED NUT #C31758-1032-27 TINNERMAN	35	36	36										
16	9007651	WASH, EXT TOOTH LOCK #10	102	102	102										
17	B-DC-7413649-0-0	NAME PLATE DECAL (MG1Ø)	1	1	1										
18	D-UA-H955-BA-Ø	30 IN FULL DOOR R.H. (H955-B)	1	1	1										
19	E-AD-7010359-0-0	FAN ASSY	1	1	1										
20	9006023-1	SCREW PHL PAN HD #6-32 X .44 SST	4	4	4										
21	9006633	WASH, INT TOOTH LOCK #6	4	4	4										
22	9006653	WASH, FLAT #6	4	4	4										

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
CORE MEMORY (MG1Ø)	D-UA-MG1Ø-Ø-Ø	A	PL	MG1Ø-Ø-Ø	F	MG10-MR010
	SHEET 1 OF 7	DIST.				

DEC FORM DEC 16 (325) 1031 N870
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY J. MISIUK	CHECKED	SECTION
DATE	DATE	
ENG	PROD	ISSUED SECT.
DATE	DATE 3-5-75	

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION												
			MG1Ø-A	MG1Ø-G	MG1Ø-H	MC1Ø-G	MG1Ø-E *								
23	C-MD-7410940-0-0	SUPPORT POWER SUPPLY LEFT	3	3	3										
24	C-IA-7415246-0-0	SUPPORT POWER SUPPLY RIGHT	3	3	3										
25	E-UA-H742Ø-A-Ø	POWER SUPPLY H742Ø-A (115V AC 60 HZ)	3	3	3										
26	D-UA-857-0-0	857 POWER CONTROL	1	1	1										
27	J-IA-7010807-0-0	D.C. HARNESS	1	1	1										
28	D-IA-7010805-0-0	A.C. WIRING HARNESS ASSY #1	2	2	2										
29	D-IA-7010806-0-0	A.C. WIRING HARNESS ASSY #2	1	1	1										
30	D-AD-7010995-0-0	CABLE SET	1	1	1										
31	D-AD-7010358-0-0	VANE SWITCH ASSY	1	1	1										
32	E-UA-H77Ø-Ø-Ø	REGULATOR H77Ø	1	1	1										
33	E-UA-H744-Ø-Ø	POWER SUPPLY H744	7	7	7										
34	E-UA-H754-Ø-Ø	POWER SUPPLY H754	4	4	4										
35	C-IA-7409870-0-0	SHIPPING BRKT. (IND. PANEL)	1	1	1										
36	A-DC-7412561-0-0	POWER INTERLOCK DECAL	1	1	1										
37	9006075-1	SCREW, PHL HD PAN #10-32 X .75 SST	14	14	14										
38	9006071-1	SCREW, PHL HD PAN #10-32 X .38 SST	74	74	74										
39	9006120-6	SCREW, PHL HD FIL #8-32 X .62 POSI-DRIVE	2	2	2										
40	9006037-1	SCREW, PHL HD PAN #8-32 X .38 SST	3	3	3										
41	9006634	WASH, INT. TOOTH LOCK #8	3	3	3										
42	1210755	SWITCH, LEVER ACTUATED	1	1	1										
43	9006557	NUT, KEPS #4-40	2	2	2										
44	9006795	SPACER, AL. .25 AF x .13 LG #10 HOLE	4	4	4										

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
CORE MEMORY (MG1Ø)	D-UA-MG1Ø-Ø-Ø	A	PL	MG1Ø-Ø-Ø	F	
	SHEET 2 OF 7	DIST.				

DEC FORM DEC 16-(325)-1031-N870
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY J. MISIUK | CHECKED | SECTION
DATE 2/25/75 | DATE 3/3/75 |
ENG | PROD | ISSUED SECT.
DATE 3/3/75 | DATE 3-5-75 |

ITEM NO	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION MG10-A	MG10-G	MG10-H	MC10-G	MG10-E *
45	9006568	NUT KEPS 5/16-18 SST	1	1	1		
46	9006241-9	SCREW HEX HD CAP 1/4-20 X .50 SST	1	1	1		
~~47~~	~~7005128~~	~~POWER CORD 25 FT (115V, 60HZ)~~	~~1~~	~~1~~	~~1~~		
48	9008264	MOUNT, CABLE TIE, ADH. BACK	10	10	10		
49	9007880	TIE, CABLE, SST 1.5M	40	40	40		
~~50~~	~~1211126~~	~~GROUND STRAP 20 IN. JANCO~~	~~1~~	~~1~~	~~1~~		
51	9008887	GROUND STRAP 10 IN. JANCO	1	1	1		
52	A-DC-7413650-0-0	OPTION DECAL (MG10)	1	1	1		
53	9006724	WASH, EXT TOOTH LOCK 1/4	1	1	1		
54	9107360-11	WIRE, #18 AWG BRN	AR	AR	AR		
55	9107360-44	WIRE, #18 AWG YEL	AR	AR	AR		
56	9107430-29	WIRE, #18 TWP WHT/RED	AR	AR	AR		
57	9107420-06	WIRE, #22 TWP BLU/BLK	AR	AR	AR		
58	1209378-00	PIN, TERMINAL CONTACT	14	14	14		
59	1209378-03	PIN, TERMINAL CONTACT	2	2	2		
60	1209351-03	CONN, HSG, 3 PIN	2	2	2		
61	1209351-06	CONN, HSG, 6 PIN	1	1	1		
62	1209351-12	CONN, HSG, 12 PIN	3	3	3		
63	1700022	CONN, MINIATURE SWITCH	1	1	1		
64	9007647	TERM, QUICK CONN, FEMALE	2	2	2		
65	9007867	MOUNT, CABLE TIE	36	36	36		
66	9107240	WRAP, CABLE, .25 O.D. VINYL	AR	AR	AR		

TITLE: CORE MEMORY (MG10) | ASSY NO. D-UA-MG10-0-0 | SHEET 3 OF 7 | SIZE A | CODE PL | NUMBER MG10-0-0 | REV. F | ECO NO | DIST

DEC FORM DEC 16 (325) 1031 N870
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY J. MISIUK | CHECKED | SECTION
DATE 2/25/75 | DATE 3/3/75 |
ENG | PROD | ISSUED SECT.
DATE 3/3/75 | DATE 3-5-75 |

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION MG10-A	MG10-G	MG10-H	MC10-G	MG10-E *
67	9007079	CLAMP, CABLE, 1/8	1	1	1		
68	9007081	CLAMP, CABLE, 1/4	2	2	2		
69	9007083	CLAMP, CABLE, 3/8	2	2	2		
70	9007084	CLAMP, CABLE, 7/16	4	4	4		
71	9007085	CLAMP, CABLE, 1/2	2	2	2		
72	9007087	CLAMP, CABLE, 5/8	3	3	3		
73	9007088	CLAMP, CABLE, 11/16	4	4	4		
74	9007032	TIE, CABLE, SST-2M	50	50	50		
75	G114	DATA LOOPS	4	8	16		4
76	G235	MEMORY DRIVER	4	8	16		4
77	G728-YA	JUMPER BOARD	2	2	2		
78	H217B	CORE STACK	4	8	16		4
79	M8562	TIMING	2	2	2		
80	M8588	PARITY CHECK	8	8	8		
81	M8589	CYCLE TIMING	2	2	2		
82	M8590	PRIORITY CONTROL	2	2	2		
83	M8591	ADDRESS RECEIVER				2	
84	M8592	ADDRESS INTERFACE				2	
85	M8593	DATA REGISTER	5	5	5		
86	M8593-YA	ADDRESS REGISTER	2	2	2		
87	M8594	DATA TRANSCIEVER				5	
88	M9005	TERMINATOR	5	5	5		

TITLE: CORE MEMORY (MG10) | ASSY NO. D-UA-MC10-0-0 | SHEET 4 OF 7 | SIZE A | CODE PL | NUMBER MG10-0-0 | REV. F | ECO NO | DIST

DEC FORM DEC 16 (325) 1031 N870
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY J. MISIUK	CHECKED	SECTION
DATE 2/25/75	DATE	
ENG	PROD	ISSUED SECT.
DATE 3/3/75	DATE	

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY VARIATION MG1Ø-A	MG1Ø-G	MG1Ø-M	MC1Ø-G	MG1Ø-E *
89	5310919	WARNING STICKER	1	1	1		
90	9006635	WASH, INT TOOTH LOCK # 10	24	24	24		
91	7413875	UL PANEL	1	1	1		
92	7406371	DECAL (WHITE ON CLEAR)	A/R	A/R	A/R		
93	3612450	IDENTIFICATION MARKER	1	1	1		
94	9007035	GROMMET	A/R	A/R	A/R		
95	9007594	ADHESIVE	A/R	A/R	A/R		
	* MG1Ø-E IS AN EXPANSION FOR MG1Ø-G AND MG1Ø-A						
REF	D-IA-BC1ØJ-Ø-Ø	I/O BUS CABLE ASSY (BC1ØJ)	X	X	X		
REF	D-UA-BC1ØK-Ø-Ø	CABLE ASSY (BC1ØK)	X	X	X		
REF	D-UA-H866-Ø-Ø	MEM. BUS TERM. H866	X	X	X		
REF	A-AL-MG1Ø-Ø-ACL	ACCESSORY LIST (MG1Ø)	X	X	X		
REF	D-IC-MG1Ø-Ø-PW	AC-DC POWER WIRING	X	X	X		
REF	D-MU-MG1Ø-Ø-MUAF	MODULE UTILIZATION	X	X	X		
REF	D-MU-MG1Ø-Ø-MUHL	MODULE UTILIZATION	X	X	X		

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV	ECO NO.
CORE MEMORY (MG1Ø)	D-UA-MG1Ø-Ø-Ø	A	PL	MG1Ø-Ø-Ø	F	
	SHEET 5 OF 7	DIST.				

DEC FORM DEC 16 (325) 1031 N870
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY J. MISIUK	CHECKED J MISIUK	SECTION
DATE 2/25/75	DATE 3/3/75	
ENG D. J. Chin	PROD R.O'BRIAN	ISSUED SECT.
DATE 11/5/75	DATE 3/5/75	

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION MG1Ø-A	MG1Ø-G	MG1Ø-H	MC1Ø-G	MG1Ø-E
96	9Ø-Ø69Ø2	TERMINAL STRIP	1	1	1		
97	B-MD-74Ø4721-Ø-Ø	PROTECTION COVER, 541	1	1	1		
98	9Ø-Ø6851	SPACER, HEX THREADED #6-32 X ½ LG	4	4	4		
99	9Ø-Ø6Ø21-1	SCR PHL PAN HD #6-32 X .31 LG	4	4	4		
1ØØ	9Ø-Ø6Ø25-1	SCR PHL PAN HD #6-32 X .62 LG	4	4	4		
1Ø1	9Ø-Ø6633	WASH, INT TOOTH LOCK #6	8	8	8		
1Ø2	91-Ø737Ø-22	#14 STRANDED INSULATED WIRE, RED	A/R	A/R	A/R		
1Ø3	91-Ø737Ø-99	#14 STRANDED INSULATED WIRE, WHITE	A/R	A/R	A/R		
1Ø4	12-Ø4826	FAN, CLZL CARAVEL (115VAC)	2	2	2		
1Ø5	12-Ø9175	FINGER GUARD	2	2	2		
1Ø6	9Ø-Ø6Ø24-3	SCR PHL TRUSS HD 6-32 X ½ LG	16	16	16		
1Ø7	9Ø-Ø656Ø	NUT KEP 6-32	16	16	16		
1Ø8	9Ø-Ø7927-ØØ	TERMINAL RING	8	8	8		
1Ø9	12-Ø9378-ØØ	TERMINAL PIN CONTACT	4	4	4		
11Ø	ØØ915-Ø3	JUMPER	24	24	24		
111	C-AD-7013988	POWER CORD ASSEMBLY	1	1	1		
112	A-DC-3612675-0-0	CAUTION DECAL	1	1	1		
113	1213756-12	STRAP, GROUND	3	3	3		
114	9006565-00	NUT, KEP 10-32	8	8	8		
115	D-IA-7413405-0-0	PANEL, FILLER H742Ø	3	3	3		
116	D-SP-7012997-0-0	I.E.C. 435 SAFETY REGULATIONS	REF	REF	REF		
117	B-CP-MGIØ-0-EC	EXTERNAL COMPONENTS LIST	1	1	1		

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
CORE MEMORY (MGIØ)	D-UA-MGIØ-Ø-Ø	A	PL	MG1Ø-Ø-Ø	F	
	SHEET 6 OF 7	DIST.				

DEC FORM DEC 16-(325)-1031-N870
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

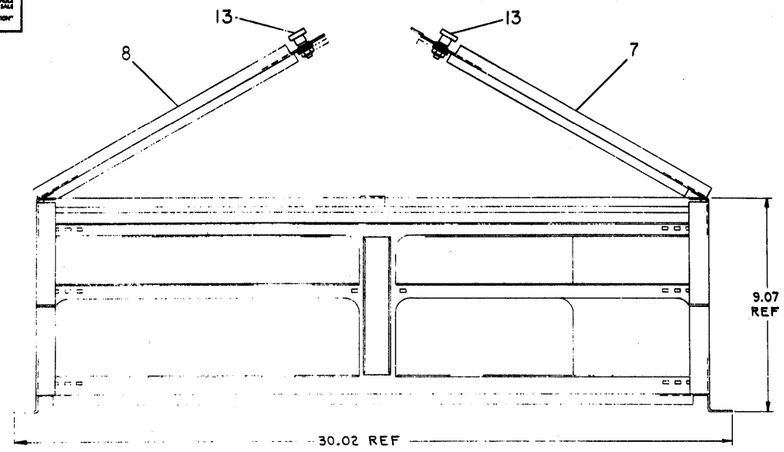
PARTS LIST

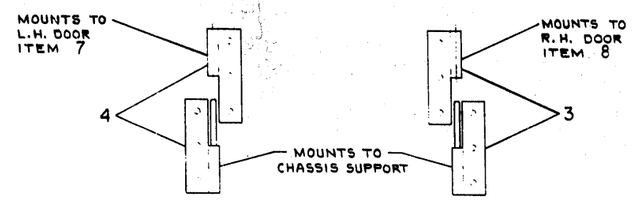
MADE BY J. MISIUK DATE 2/25/75	CHECKED J. MISIUK DATE 3/3/75	SECTION
ENG D.J. CHIN DATE 11/5/75	PROD R. O'BRIAN DATE 3/5/75	ISSUED SECT.

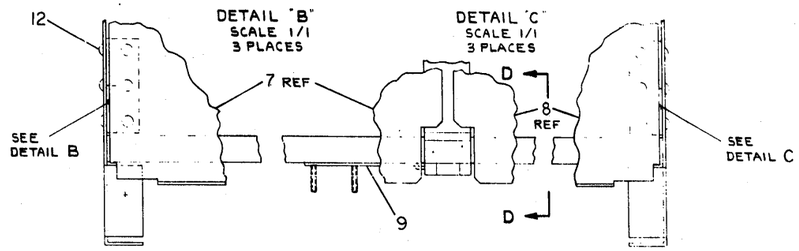
ITEM NO	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION										
			MG10-A	MG10-G	MG10-H	MG10-G	MG10-E*						
118	1213756-07	STRAP, GROUND 7IN	1	1	1								
119	9007959	WASHER, LOCK EXT TOOTH	1	1	1								
120	3613272	LABEL, GROUND SYMBOL	3	3	3								

TITLE CORE MEMORY (MG10)	ASSY NO. D-UA-MG10-0-0 SHEET 7 OF 7	SIZE A	CODE PL	NUMBER MG10-0-0 DIST.	REV. F	ECO NO.

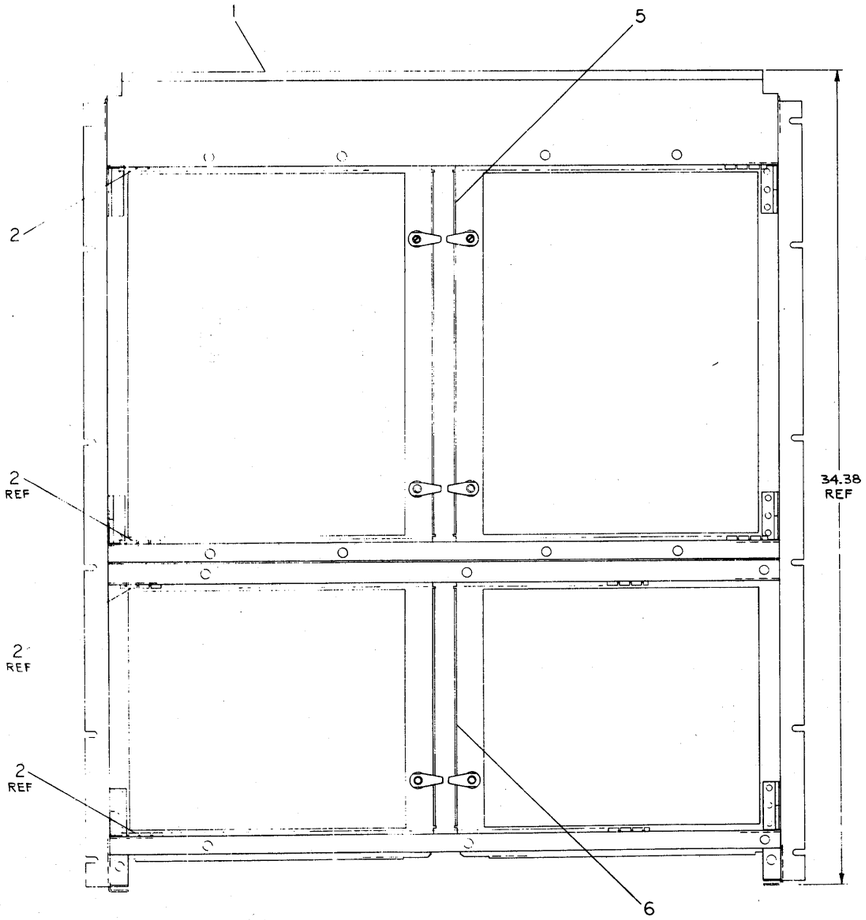
DEC FORM DEC 16 (325)-1031-N870
DRA 110

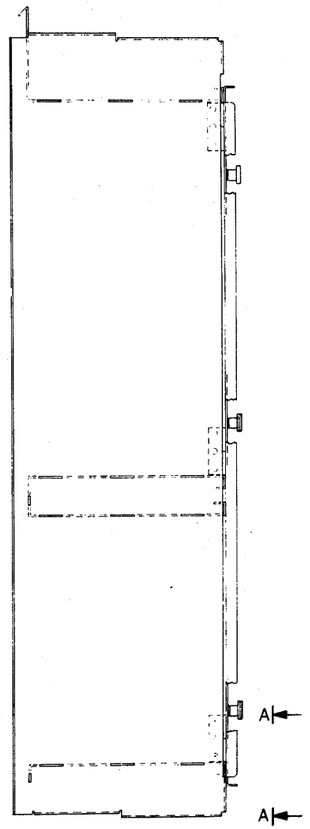


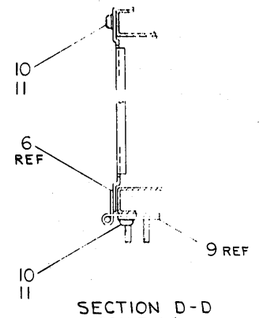




VIEW A-A
SCALE 1/1







SECTION D-D
SCALE 1/1
ITEM 8 NOT SHOWN

QTY.	DESCRIPTION	PART NO.	ITEM NO.
6	LATCH	12 2067	13
36	POP RIVET .12 DIA	3006458	12
6	WASHER, LOCK INT TOOTH #6	3006633	11
6	SCR, PHL PAN HD 6-32 x 5/16	3006021-1	10
1	BRACKET, MICROSWITCH	3-1A-7411807-0-0	9
1	DOOR, RIGHT	D-MD-7412655-0-0	8
1	DOOR, LEFT	D-MD-7412654-0-0	7
1	CENTER SUPPORT ASSY	D-1A-7010350-2-0	6
1	CENTER SUPPORT ASSY	D-1A-7010360-1-0	5
3	HINGE, RIGHT	1212027-0-1	4
3	HINGE, LEFT	1212027-0-0	3
100	CARD GUIDE	D-PS-1211360-0-0	2
1	CHASSIS WELD COOLASSY	E-AD-7010228-0-0	1

PARTS LIST

FIRST USED ON OPTION/MODEL: MG 10

DIMENSIONAL TOLERANCE
DIMENSIONS ARE INCHES
UNLESS OTHERWISE SPECIFIED
MILLIMETERS: X ±0.18, XX ±0.13
INCHES: XXX ±.005, XX ±.02, X ±.1
ANGLES: ±0° 30'
THIRD ANGLE PROJECTION
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓
MATERIAL
FINISH

DRN. J. Amaro 9/4/74
ENGR. C. Prosser 11/7/74
CHK.
APPD. FOR
MFG. D. Gleason 2.27.75

digital

TITLE: COOLING ASSY

NEXT HIGHER ASSY. D-UA-MG10-0-0
SIZE E CODE 1A NUMBER 7010290-0-0 REV.
SCALE 1/2 SHEET 1 OF 1

CHANGE NO. REVISIONS REV.

7010290-0-0

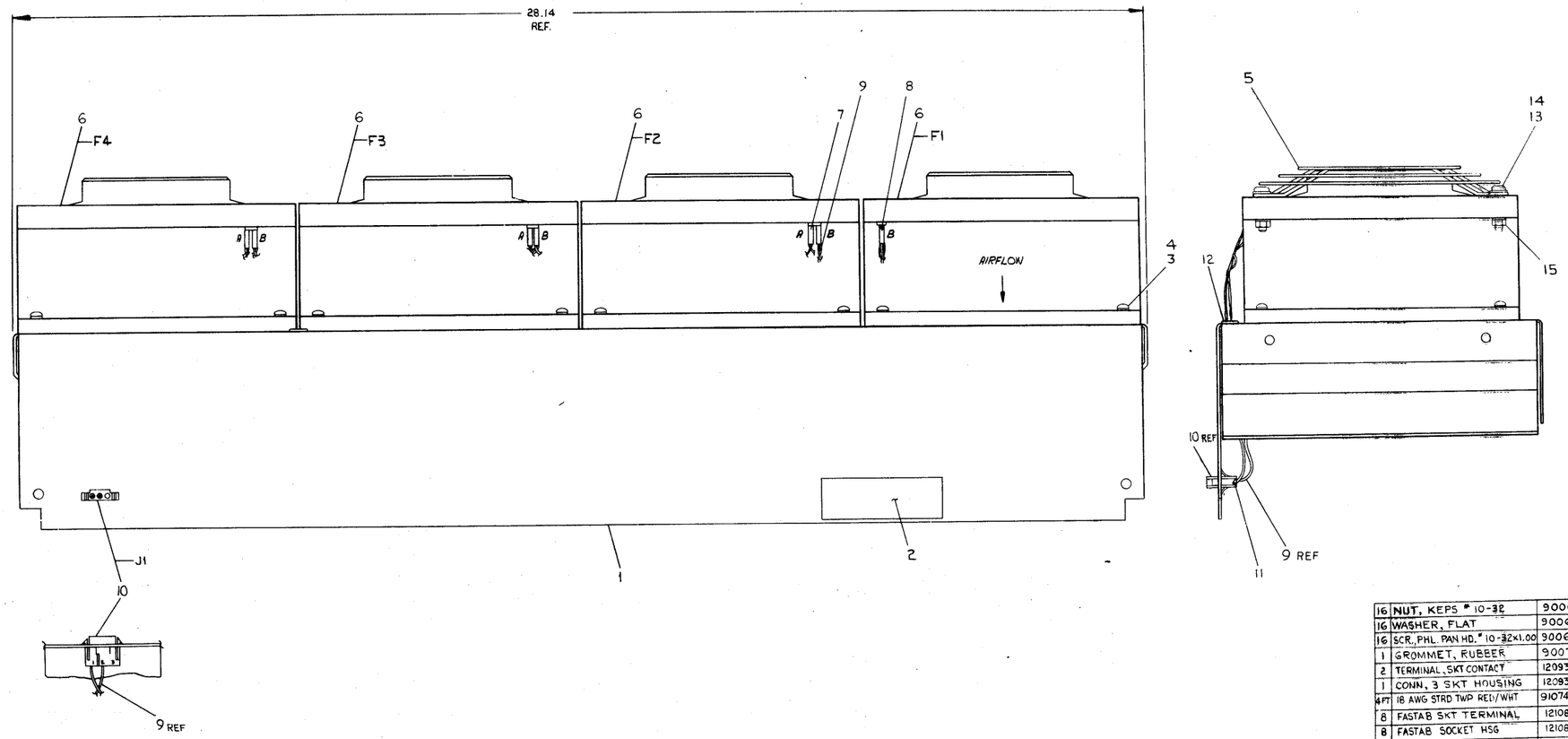
DO NOT SCALE DRAWING

WIRE TABLE

ITEM NO.	DESCRIPTION AWG	COLOR	FROM CONNECTION	WITH	TO CONNECTION	WITH	REMARKS
9	#18	RED	F4-A	7+8	J1-2	11	
					F3-A	7+8	
		RED	F2-A	7+8	F1-A	7+8	
		WHT	F2-b	7+8	F1-B	7+8	
					F3-B	7+8	
9	#18	WHT	F4-B	7+8	J1-1	11	

#18 TWP

NOTES:



QTY.	DESCRIPTION	PART NO.	ITEM NO.
16	NUT, KEPS #10-32	9006565	15
16	WASHER, FLAT	9006664	14
16	SCR, PHL PAN HD. #10-32x1.00	9006077-1	13
1	GROMMET, RUBBER	9007013	12
2	TERMINAL, SKT CONTACT	1209379-00	11
1	CONN, 3 SKT HOUSING	1209350-03	10
4FT	18 AWG STRD TWP RED/WHT	9107430-29	9
8	FASTAB SKT TERMINAL	1210820-04	8
8	FASTAB SOCKET HSG	1210820-01	7
4	FAN, (115) VAC	1211747	6
4	FINGER GUARD	1212066	5
16	WASHER, INT TOOTH LOCK #8	9006634	4
16	SCR, PHL. PAN HD #8-32 x .62	9006040-1	3
1	LABEL, ADH BACKED	9009255	2
1	FAN HOUSING, 4 FANS	E-IA-7410929-0-0	1

PARTS LIST

FIRST USED ON OPTION/MODEL: MG10

TOLERANCES DECIMAL
.XXX = ± .005
.XX = ± .02
.X = ± .1

UNLESS OTHERWISE SPECIFIED
DIMENSIONS IN INCHES
TOLERANCES
FRACTIONAL ± 1/64
ANGULAR ± 1°
FINISH MAXIMUM QUALITY 63 MICRO INCHES AREAS SHOWN CLEANED

MATERIAL: SEE PARTS LIST
FINISH

	NAME	DATE
DRN	[illegible]	8-11-76
CHKD	[illegible]	8/12/76
ENGR	[illegible]	8/12/76
MFG APP	[illegible]	8/12/76
MGR	[illegible]	8/16/76

NEXT HIGH ASSY: D-UA-MG10-0-0

SCALE 1/1
SHEET 1 OF 1

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: FAN ASSY

SIZE E | NUMBER AD7010359-0-0 | REV

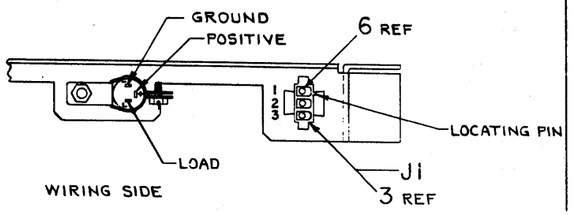
DIST.

AD 7010359-0-0 B

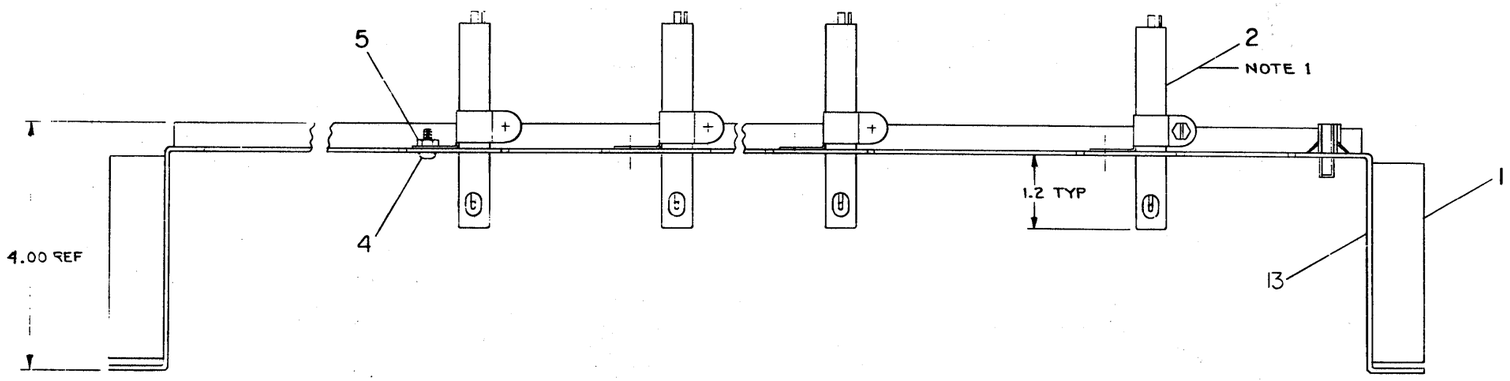
ZONE	REVISIONS	REV.
	ORIGINAL RELEASE	

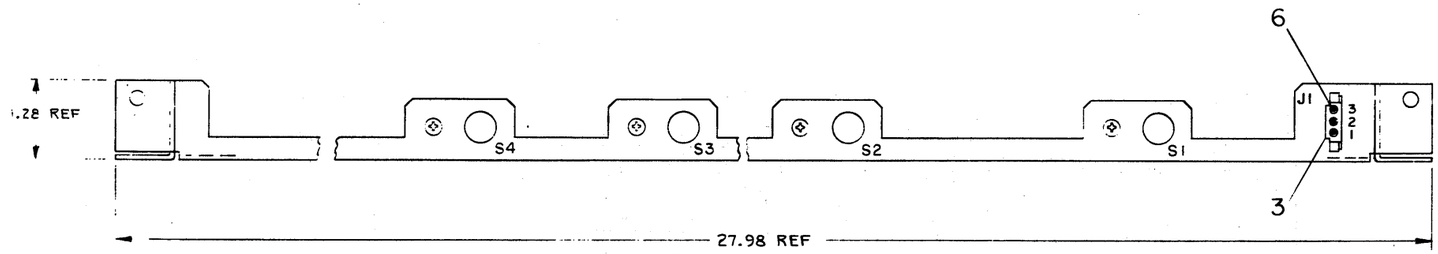
WIRE TABLE

ITEM NO.	DESCRIPTION AWG	DESCRIPTION COLOR	FROM CONNECTION	FROM TERM	TO CONNECTION	TO TERM
11	22	BLK	S4-G	7&8	S3-G	7&8
↕	↕	↕	S2-G	7&8	S1-G	↕
11		BLK	J1-1	6		
1C		CRN	S4-P	7&8	S3-P	
↕	↕	↕	S2-P	7&8	S1-P	
10		CRN	J1-2	6		
9		YEL	S4-L	7&8	S3-L	
↕	↕	↕	S2-L	7&8	S1-L	7&8
9	22	YEL	J1-3	6		



NOTES:
1. USE EXISTING HARDWARE SUPPLIED WITH ITEM 2.
2. LOCATE CABLE TIES (ITEM 12) TO SECURE WIRE RUNS TO BRACKET.





ITEM NO.	DESCRIPTION	PART NO.	QTY.
1	LABEL, ADHESIVE BACKING	9009255-00	13
6	CABLE TIES 3.75 x .094	9007031	12
4 FT	WIRE, 22 AWG BLK	9107350-00	11
4 FT	WIRE, 22 AWG ORN	9107350-33	10
4 FT	WIRE, 22 AWG YEL	9107350-44	9
12	TERMINAL, QUICK CONNECT	9009137-00	8
12	SHRINKABLE TUBING RED	9107305-02	7
3	TERMINAL, PIN CONTACT	1209379-03	6
4	NUT, KEP 6-32	9006560	5
4	SCR, PH. PAN HD. 6-32 X .38	9006022-1	4
1	HOUSING, SOCKET 3 SKT	1209350-03	3
4	SW., SOLID STATE VANE	1210756	2
1	BRACKET, SWITCH	D-MD-7412817-0-0	1

PARTS LIST

REVISIONS			
CHK	CHANGE NO.	REV.	
[illegible]	7010358	A	27 Dec 74

FIRST USED ON OPTION/MODEL: MGIØ

DIMENSIONAL TOLERANCE
DIMENSIONS ARE MILLIMETERS / INCHES UNLESS OTHERWISE SPECIFIED

MILLIMETERS	INCHES	ANGLES
X.XX ±0.10	.XXX ±.005	45° 20'
X.X ±0.25	.XX ±.02	
X ±0.5	X ±.1	

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓
MATERIAL —
FINISH —

	NAME	DATE
DRN	[illegible]	11/18/74
CHK'D.	[illegible]	11-19-74
ENGR	[illegible]	12/3/74
PROJ. ENGR	[illegible]	12-17-74
PROG	[illegible]	1-7-75

NEXT HIGHER ASSY. D-UA-MGIØ-0-0
SCALE 1/1
SHEET 1 OF 1

digital

TITLE: VANE SWITCH ASSY

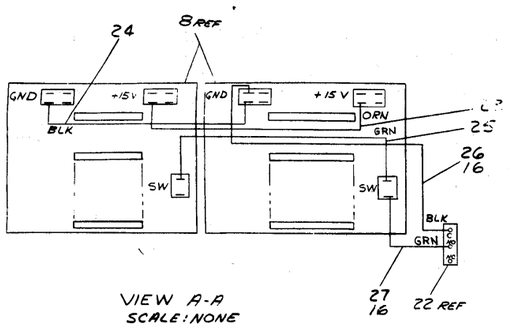
SIZE	CODE	NUMBER	REV.
D	AD	7010358-0-0	A

DIST.

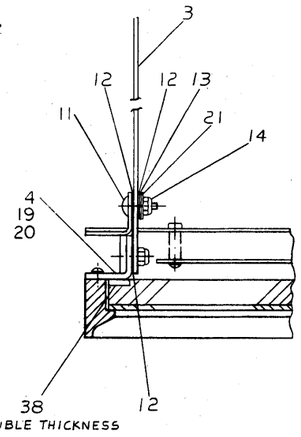
DRAWING NUMBER D AD 7010358-0-0 REV A

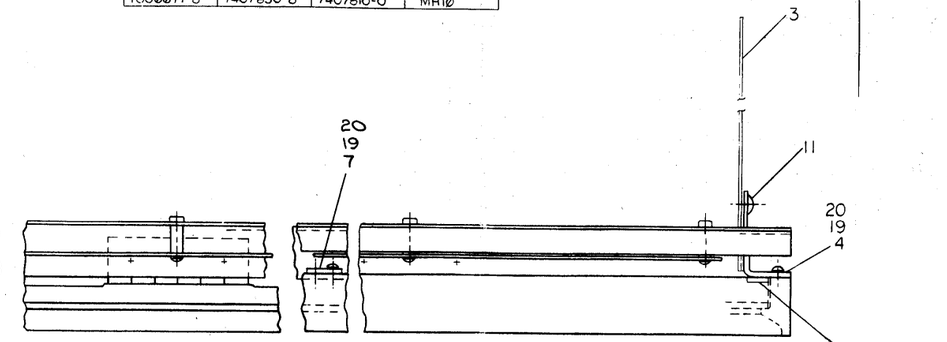
LEGEND			
NUMBER	PNL, FRONT (BLK SCREEN)	PLATE, BEZEL MTG	OPTION
7006671-1	7407850-1	7407810-0	KII0 (BAY 1)
7006671-2	7407850-2	7407810-0	KII0 (BAY 2)
7006671-3	7407850-3	7407810-0	KII0 (BAY 3)
7006671-4	7407850-4	7407810-0	DLI0
7006671-5	7407850-5	7407810-0	R810
7006671-6	7407850-6	7407810-0	MFI0
7006671-7	7407850-7	7407810-0	MGI0
7006671-8	7407850-8	7407810-0	MHI0

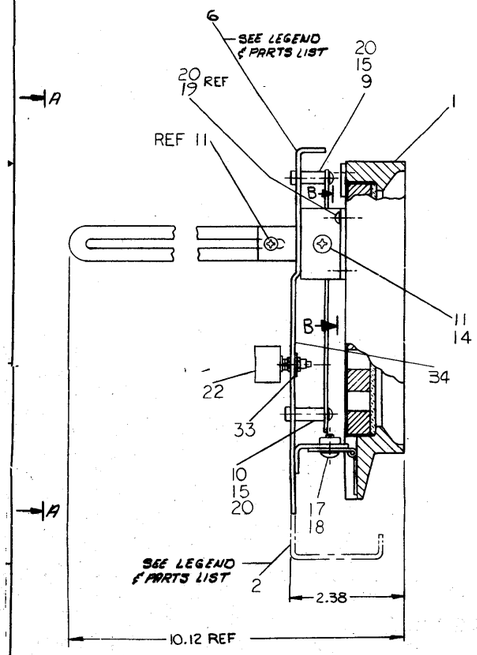
NOTES:
1. INSPECT PER A II-7006671-0-4.

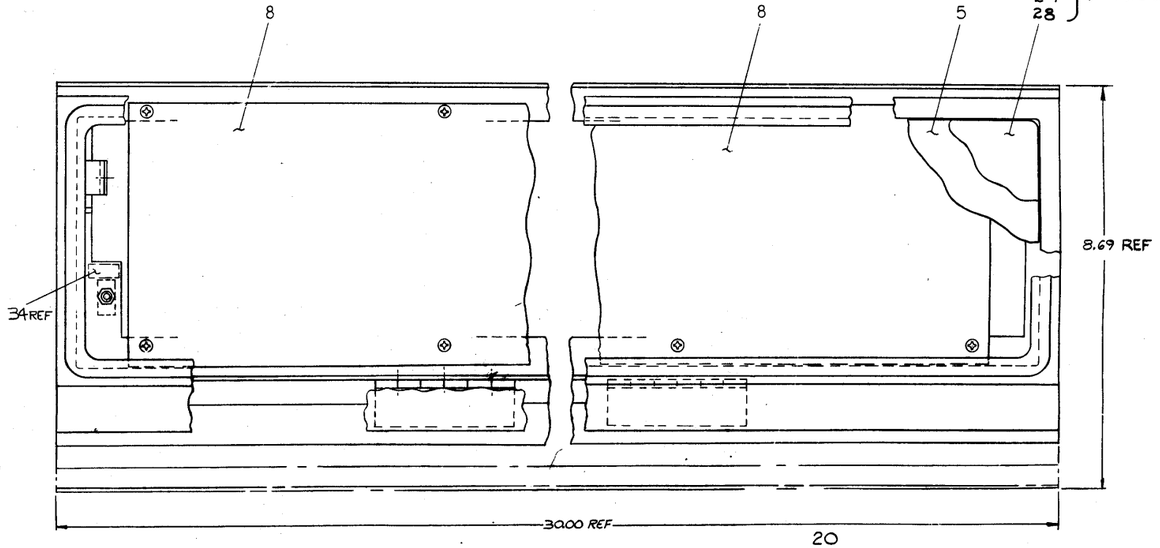


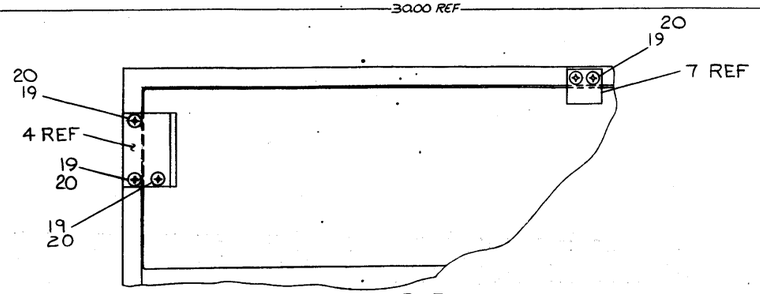
VIEW A-A
SCALE: NONE











VIEW B-B

REVISIONS					
CHK	CHANGE NO.	REV			
TW	K110 - 00017	A			
TW	10/25/71	B			
TW	10/28/71	C			
TW	11/4/71	D			
TW	11/18/71	E			
TW	12/2/71	F			
TW	12/9/71	G			
TW	12/16/71	H			
TW	12/23/71	J			
TW	1/6/72	K			
TW	1/13/72	L			
TW	1/20/72	M			
TW	1/27/72	N			
TW	2/3/72	P			
TW	2/10/72	R			
TW	2/17/72	S			
TW	2/24/72	T			
TW	3/2/72	U			
TW	3/9/72	V			
TW	3/16/72	W			
TW	3/23/72	X			
TW	3/30/72	Y			
TW	4/6/72	Z			
TW	4/13/72	AA			
TW	4/20/72	AB			
TW	4/27/72	AC			
TW	5/4/72	AD			

DEC FORM NO. DRE 100

DRAWN	A. KENT	10/28/71
TRACED		
DESIGNED	A. KENT	10/28/71
CHECKED	S. WESTON	11/4/71
ENGR APPD	W. HAMILTON	11/16/71
MFG APPD	J. McELROY	11/16/71

TOLERANCES	
DECIMALS	
.XXX = ±.005	
.XX = ±.02	
.X = ±.1	

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
KII0		PARTS LIST		

MATERIAL		
FINISH		
ENGR	P. Milano	2-2-70
MFG		2-18-70
QUAL		2/19/70
PROJ ENGR		2/19/70
PROD		2/20/70
FIRST USED ON	D-UA-KII0-0-0	
SCALE	1/1	
SHEET	OF	

digital EQUIPMENT CORPORATION

TITLE: INDICATOR PANEL ASSY (30 IN)

SIZE/CODE: E | AD | NUMBER: 7006671-0-0 | REV: E

DIST:

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 4/3/75

TITLE MC1Ø-G ADDITIONAL ACCESS PORT OPTION

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	ECO CHANGE	00005	D.CHIN	11-76		11-76

ENG	APPD	SIZE	CODE	NUMBER	REV
4-17-75	4-17-75	A	SP	MCIØ-G-AAP	A

DEC FORM NO. DRA 107

ENGINEERING SPECIFICATION — CONTINUATION SHEET

TITLE MC1Ø-G ADDITIONAL ACCESS PORT OPTION

I. SCOPE

The MC1Ø-G is an option that provides two (2) additional access ports to MG1Ø memories in which all available ports are not utilized.

II. REQUIREMENTS

The MC1Ø-G option consists of the following:

5 M8594 Data Transceiver
2 M8592 Port Address Interface
2 M8591 ADR Receiver
2 BC1ØJ-XX or BC1ØK-XX cables (dependent on system configuration, XX is specified at 1Ø Ft. unless otherwise specified.

III. DRAWINGS

A MC1Ø-G drawing set consists of the following MG1Ø drawings.

D-BS-MG1Ø-Ø-DBØ	Data Bits Ø-7
D-BS-MG1Ø-Ø-DB1	Data Bits 8-15
D-BS-MG1Ø-Ø-DB2	Data Bits 16-23
D-BS-MG1Ø-Ø-DB3	Data Bits 24-31
D-BS-MG1Ø-Ø-DB4	Data Bits 32-PAR
D-BS-MG1Ø-Ø-ABØ	Address Bits 21-28
D-BS-MG1Ø-Ø-AB1	Address Bits 29-33 WR RQ, RD RQ
D-BS-MG1Ø-Ø-PRØ	Port Request Logic Ø-3
D-BS-MG1Ø-Ø-PR1	Port Request Logic 4-7
D-MU-MG1Ø-Ø-MUAF	Module Utilization
D-MU-MG1Ø-Ø-MUHL	Module Utilization
D-IC-MG1Ø-Ø-MBI	Memory Bus Interface
D-CS-M8594-Ø-DATØ	MG1Ø Data Transeiver
D-CS-M8594-Ø-DAT1	MG1Ø Data Transceiver
D-CS-M8592-Ø PADØ	MG1Ø Port Address
D-CS-M8592-Ø-PAD1	MG1Ø Port Address
D-CS-M8592-Ø-PAD2	MG1Ø Port Address
D-CS-M8591-Ø-ADRØ	MG1Ø Address Receiver
D-CS-M8591-Ø-ADR1	MG1Ø Address Receiver
D-CS-M8591-Ø-ADR2	MG1Ø Address Receiver

SIZE	CODE	NUMBER	REV
A	SP	MCIØ-G-AAP	A

DEC FORM NO DEC 16-(381)-1022-N370
DRA 108

IV. MODULE LOCATION

Module Type	Locations PØ	P1	P2	P3	P4	P5	P6	P7	Drawing
M8594	HJ18		HJ19		HJ20		HJ21		Data Bits Ø-7, D-BS-MG1Ø-Ø-DBØ
M8594	HJ09		HJ10		HJ11		HJ12		Data Bits 8-15, D-BS-MG1Ø-Ø-DB1
M8594	KL17		KL18		KL19		KL20		Data Bits 16-23, D-BS-MG1Ø-Ø-DB2
M8594	KL12		KL13		KL14		KL15		Data Bits 24-31, D-BS-MG1Ø-Ø-DB3
M8594	KL07		KL08		KL09		KL10		Data Bits 32-PAR, D-BS-MG1Ø-Ø-DB4
M8592	HJ37		HJ35		HJ33		HJ31		Port Request Logic, D-BS-MG1Ø-Ø-PRØ
M8592		HJ36		HJ34		HJ32		HJ30	Port Request Logic, D-BS-MG1Ø-Ø-PR1
M8591	KL39		KL38		KL37		KL36		Address Bits 21-28, D-BS-MG1Ø-Ø-ABØ
M8591	KL32		KL31		KL30		KL29		Address Bits 29-33, D-BS-MG1Ø-Ø-AB1

V. DIAGNOSTIC TEST

Run diagnostic MAINDEC-1Ø-DDMMD with switches 8, 9, 18, 20, 22, 25, 26 on for two (2) passes. No errors are acceptable.

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 14 AUG 72

TITLE THE ACCEPTANCE TEST MEMORY SYSTEMS

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	ECO CHANGE	00006	D.CHIN	5-5-75		
B	ECO CHANGE	00007	J.PROVIDENT	11 OCT 76	J. Provident	18 OCT 76
C	ECO CHANGE	00005	D.CHIN	11-76	[illegible]	11-76

ENG	APPD	SIZE	CODE	NUMBER	REV
P Sullivan	[illegible] 11 Aug 72	A	SP	PDP10-0-MEMS	C

DEC FORM NO. DRA 107

ENGINEERING SPECIFICATION [redacted] CONTINUATION SHEET

TITLE THE ACCEPTANCE TEST MEMORY SYSTEM

A. Applicability

This test is applicable to the following memory units:

MA10
MB10
MD10
ME10
MF10
MG10
MH10

B. Hardware Test

1. Run MAIN DEC-10-DDQCB. DDQCB is a memory port interaction test. It provides a way of checking for multiport interference problems. The program runs in EXECT MODE only and with EXECT DDT to provide operator/program communication. No errors are acceptable.

2. Run the memory pattern exerciser MAINDEC-10-DIMMD with switches 8, 9, 18, 20, 22, 25, 26 on for 12 hours. This program exercises the worst case patterns throughout all of memory. No errors are acceptable.

3. The appropriate processor tests provide memory/processor speed verification and are not repeated here.

C. Software Integration

The software acceptance tests thoroughly exercise all aspects of memory system operation and further tests are not required.

	SIZE	CODE	NUMBER	REV
	A	SP	PDP10-0-MEMS	C

DEC FORM NO EN-01022-16-N370-'381)
DRA 108

ITEM	TERM. VALUE	FROM PIN	POL	TO PIN	POL	SIGNAL NAME
1	1K OHMS	H28P2		H28A2		CYT CØ CLR AW RQL

REVISIONS		
CHK	CHANGE NO.	REV.
-	MGIØ-MRØIØ	-
	ORIGINATED	

DRB 100A

1	TERMINATOR, 1K, 3ØAWG	7407749	1
	DESCRIPTION	DWG./PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS 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 ☐	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.025	±.04	±.063	±0.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL

FINISH

DRN. G. Ugarte	21-NOV-77	
CHK'D [illegible]	28 NOV 77	
ENG. L. Bolla	21-DEC-77	
PROJ. ENG. L. Bolla	21-DEC-77	
PROD. K. Przybylowicz	28-DEC-77	
NEXT HIGHER ASSY.		
D-UA-MGIØ-Ø-Ø		
SCALE		
SHEET 1 OF 1		

FIRST USED ON
MGIØ

digital

TITLE
EXTERNAL COMPONENTS LIST

SIZE	CODE	NUMBER	REV.
B	CP	MGIØ-Ø-EC	

DIST.