ENGINEERING DRAWINGS

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VT55

Field Maintenance Print Set

Digital Equipment Corporation

digital

FIELD MAINTENANCE PRINT SET

TABLE OF CONTENTS

UNIT VARIATIONS COVERED BY THIS PRINT SET
VT55-EA
VT55-EB
VT55-EC
VT55-EE
VT55-EF
VT55-EH
VT55-HA
VT55-HB
VT55-HC
VT55-FA
VT55-FB
VT55-FC
VT55-FE
VT55-FF
VT55-FH
VT55-JA
VT55-JB
VT55-JC

VT55
Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.: MPØØØ98

REVISIONS		
REV.	CHG. NO.	DATE
A	VT55-5	1-NOV

USED ON OPTION/MODEL
VT55

SHEET 1 OF 1

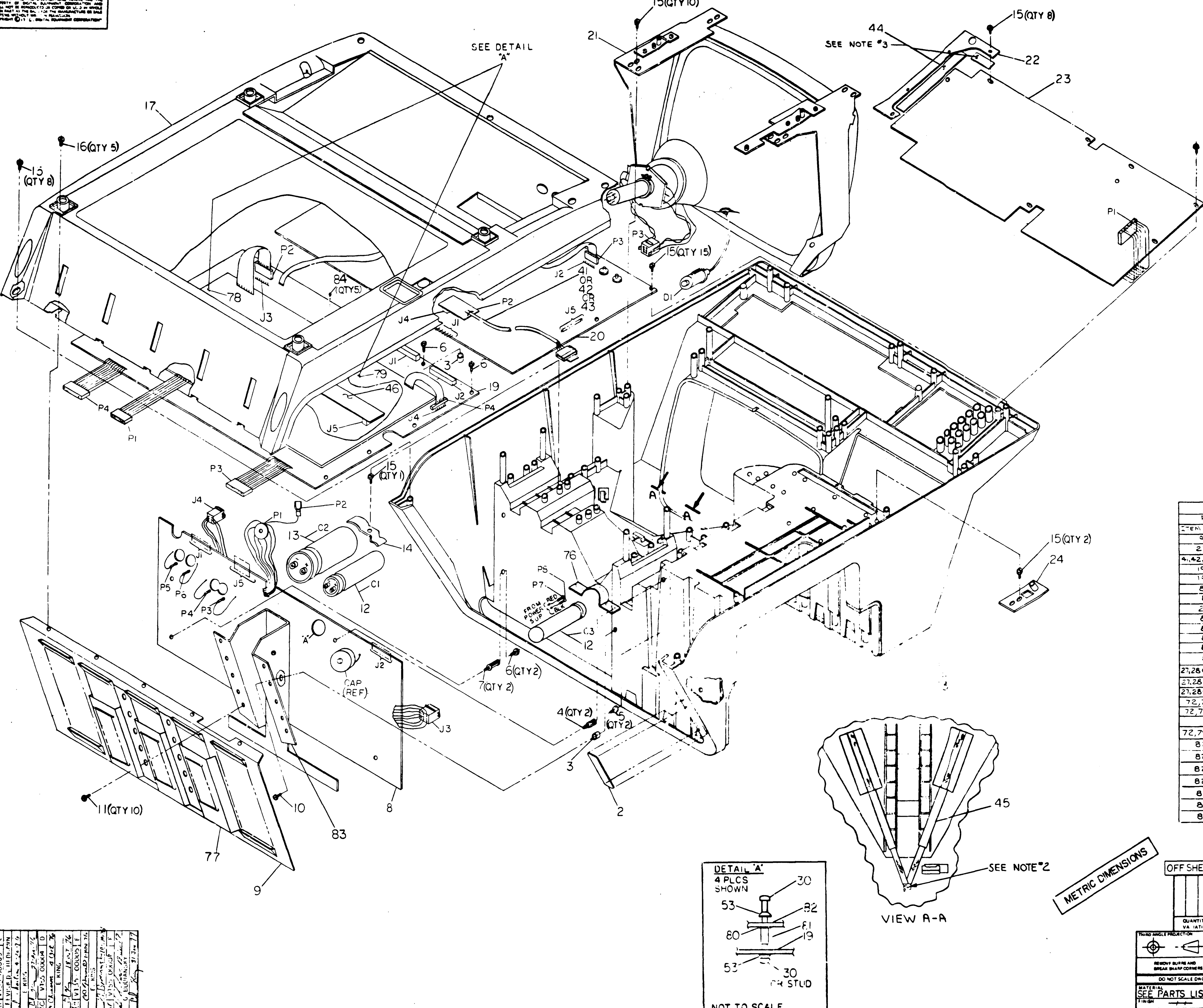
DRN.	DATE
CHK'D	DATE
PROJ. ENG.	DATE 24 MAR 76
FIELD SERV.	DATE

digital

TITLE: UNIT ASSEMBLY VT55

SIZE	CODE	NUMBER	REV.
B	TC	VT55-Ø-4	A

DIST.



NOTES:

1. FOR DRAWING DIRECTORY REFER TO B-DD-VT55-Ø
2. MOUNT TO SHELL WITH NUT, SCREW, AND WASHER SUPPLIED WITH CRT GROUNDING ASSY. (ITEM#45).
3. USE DOUBLE COATED TAPE (ITEM#44) BETWEEN MTG BRACKET KYBD RIGHT (ITEM#22) AND KEYBOARD VT51/VT5Ø H (ITEM#23)
4. ITEM #45 TO BE ORIENTED EXACTLY AS SHOWN.
5. REMOVE ONE PLASTIC TAB ON VT55 EB, EC, EF, EH, HB, AND HC MODELS AS SHOWN
6. ITEM 7 MAY BE REPLACED WITH [illegible] REQUIRED FOR 115V 60 HZ AND ITEM 6 MAY BE REPLACED BY A [illegible] A/R.

LEGEND	
NUMBER	VARIATION
VT55-EA	CURRENT LOOP 115V 60HZ
VT55-EB	CURRENT LOOP 220/240V, 50/60 HZ
VT55-EC	CURRENT LOOP 100/127V, 50/60 HZ
VT55-EE	EIA 115V, 60HZ
VT55-EF	EIA 220/240V, 50/60HZ
VT55-EH	EIA 100/127V, 50/60 HZ
VT55-HA	283B PLUG 115V, 60HZ
VT55-HB	283B PLUG 220/240V, 50/60 HZ
VT55-HC	283B PLUG 100/127V 50/60HZ
VT55-FA	COPIER, CURRENT LOOP 115V, 60HZ
VT55-FB	COPIER, CURRENT LOOP 220/240V, 50 HZ
VT55-FC	COPIER, CURRENT LOOP 100/127V, 50 [illegible]
VT55-FE	COPIER, EIA 115V, 60HZ
VT55-FF	COPIER, EIA 220/240V, 50 [illegible]
VT55-FH	COPIER, EIA 100/127V, 50 [illegible]
VT55-JA	COPIER, 283B PLUG 115V, 60HZ
VT55-JB	COPIER, 283B PLUG 220/240V, 50 [illegible]
VT55-JC	COPIER, 283B PLUG 100/127V, 50 [illegible]

WIRE TABLE				
FROM		TO		REMARKS
ITEM NO.	CONN	ITEM NO.	CONN	
9	J1	20	J1	ALL VARIATIONS
23	P1	20	J5	
41, 42, 43	P2	20	J4	
19	P4	8	J1	
19	P3	8	J2	
8	P1	21	CRT	
8	J4	21	P3	
21	D1	8	HOLE "A"	
8	P5	13	C2 -	
8	P6	3	C2 +	
8	P4	12	C1 -	
8	P3	12	C1 +	ALL VARIATIONS
8	J3	36, 37, 38	J1	NON-COPIER ONLY
27, 28 OR 29	J	19	J2	COPIER ONLY
27, 28 OR 29	GND	30 CRT	GND	
27, 28 OR 29	P1	48, 49 OR 50	J1	
72, 74 OR 75	P2	48, 49 OR 50	J2	
72, 74 OR 75	J1	8	J3	COPIER ONLY
72, 74 OR 75	GND LUG	48, 49 OR 50	GND	COPIER ONLY
82	P1	8	J5	ALL VARIATIONS
82	P2	19	J3	
82	P3	20	J2	
82	P4	19	J4	
8	P2	45	GND	
8	P8	12	C3 -	
8	P7	12	C3 +	ALL VARIATIONS

OFF SHEET PARTS LIST REFER TO C-PL-VT55-Ø-Ø

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FINISH

NEXT USED ON: VT5Ø

B-DD-VT55-Ø

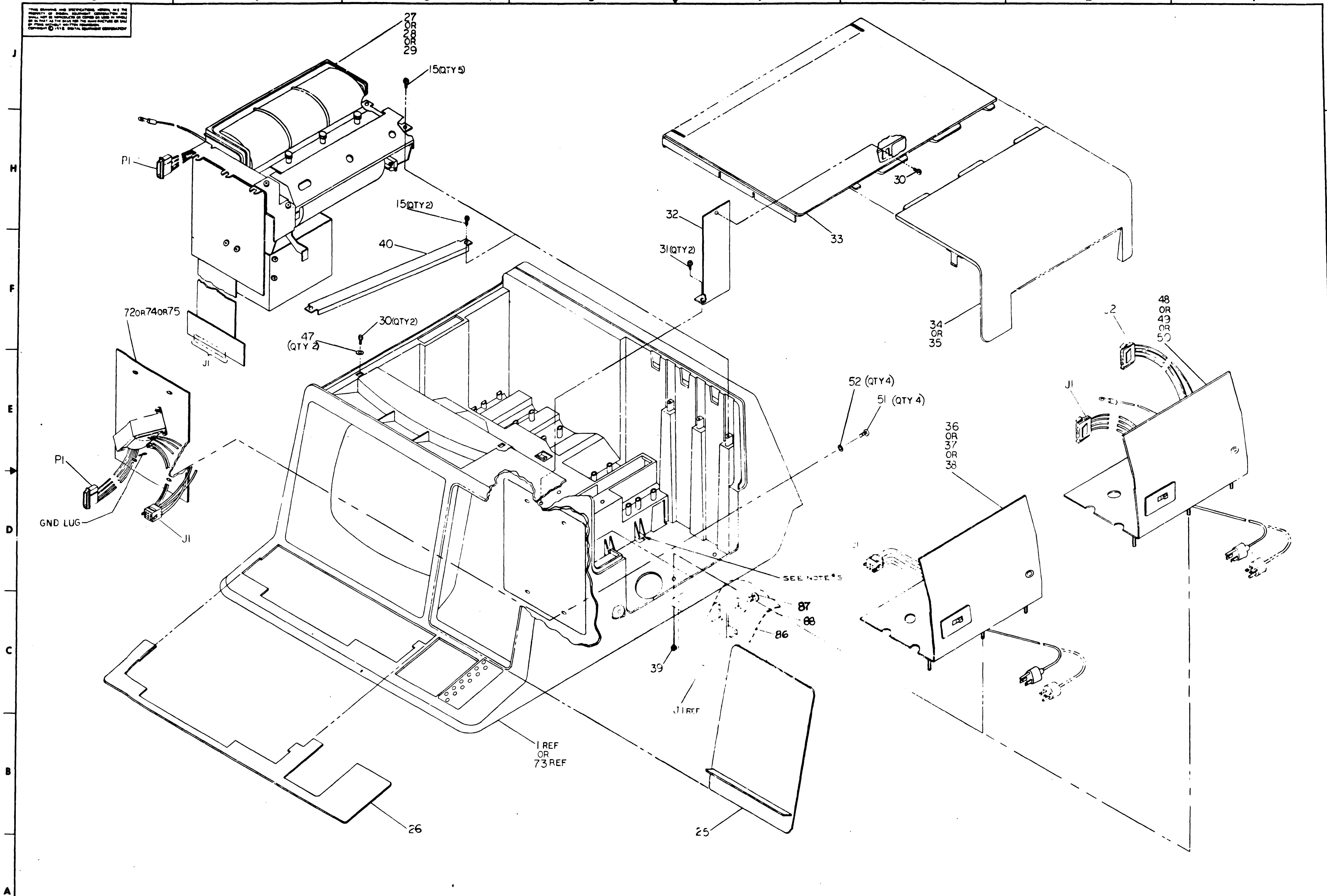
digital

TITLE: UNIT ASSEMBLY VT55

SIZE: D | CODE: UA | NUMBER: VT55-Ø-Ø

SCALE NONE | SHEET 1 OF 2

D UA VT55-Ø-Ø



UNIT ASSEMBLY VT55

SCALE NONE SHEET 2 OF 2

UA VT55-Ø-Ø

ITEM NO.	PART NO.	DESCRIPTION	VT55-EA	VT55-EB	VT55-EC	VT55-EE	VT55-EF	VT55-EH	VT55-HA	VT55-HB	VT55-HC	VT55-FA	VT55-FB	VT55-FC	VT55-FE	VT55-FF	VT55-FH	VT55-JA	VT55-JB	VT55-JC
1	E-MD-7411540-0-0	SHELL VT5Ø	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-
2	9008141-04	LABEL, ALUMINUM, ADHESIVE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	9009672-00	SPACER, PLASTIC, .75 I.D. X .31 LG	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
4	9009670-00	STANDOFF, PLASTIC, SNAP-IN .250 LG	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5	9009680-01	SHWH, TH'D ROLLING SCREW #6 X .31	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
6	9009680-04	SHWH, TH'D ROLLING SCREW #6 X .50	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
7	9009670-01	STANDOFF, PLASTIC, SNAP-IN .625 LG	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
8	D-CS-5411450-0-1	MONITOR, POWER SUPPLY VT55	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	D-IA-7412866-0-0	HEAT SINK	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	9009679-02	SHWH, TH'D ROLLING SCREW #8 X .75	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	9009683-01	HWH, BLACK PASSIVATED SCREW #8 X .38	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
12	1012412-0-0	CAP. 6000 MFD. 4Ø VDC G% AL EL	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
13	1012065-0-0	CAP. 23,000 UF 2ØV +75% -10% AL EL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	2-MD-7414797-0-0	CLAMP, CAPACITOR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	9009681-01	SHWH, TH'D ROLLING SCREW #10 X .62	48	48	48	48	48	48	48	48	48	51	51	51	51	51	51	51	51	51
16	9009682-01	SHWH, TH'D #8-32 X .38	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
17	Ø-AD-7010858-01	BASE ASSEMBLY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	A-SP-3700184-0-0	PACKAGING INSTRUCTIONS W/O COPIER	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-
19	D-CS-5411745-0-1	DATA PATH, MEMORY AND DECODERS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	D-CS-5411743-2-1	ROM UART AND TIMING	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	Ø-AD-7010859-0-0	CRT ASSEMBLY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	2-MD-7413327-0-0	MTG BRACKET KYBD RIGHT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	D-CS-5411170-4-1	KEYBOARD VT51/VT5Ø H	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	C-IA-7413326-0-0	BRKT PC BD TO SHELL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	D-MD-7413103-0-0	COVER, CASSETTE OPENING	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	1-IA-7413432-0-0	BEZEL, KEYBOARD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	Ø-UA-7010068-0-0	COPIER ASSEMBLY 115V/6ØHZ	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	-	-
28	Ø-UA-7010068-1-0	COPIER ASSEMBLY 1ØØV/127V, 5ØHZ	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1
29	Ø-UA-7010068-2-0	COPIER ASSEMBLY 22ØV/24ØV, 5ØHZ	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	-
30	9006038-01	S.P.P.H. MACHINE SCREW #8-32 X .44	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
31	9009681-00	SHWH HI-LO SCREW #10 X .50	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
32	C-IA-7413332-0-0	BLANK COVER, HOLDDOWN BAR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
33	1-AD-7010846-0-0	COVER BLANK FIXED ASSEMBLY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34	1-MD-7412574-0-0	COPIER COVER (VT5Ø)	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1
35	1-MD-7412574-1-0	COPIER COVER (VT5Ø)	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-
36	E-AD-7010773-1-0	TRANSFORMER ASSY (115V,6ØHZ)	1	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-
37	E-AD-7010773-2-0	TRANSFORMER ASSY (22ØV/24ØV,5Ø/6ØHZ)	-	1	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-
38	E-AD-7010773-3-0	TRANSFORMER ASSY (1ØØV/127V)	-	-	1	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-
39	9006563-00	KEPNUT #8-32	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
40	C-MD-7413400-0-0	BRACKET, COPIER WELL	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-
41	1-IA-BN52A-7F	VT52 EIA CARD AND CABLE ASSEMBLY	-	-	-	1	1	1	-	-	-	-	-	-	1	1	1	-	-	-
42	1-IA-BN52B-7F	2Ø MA. ADAPTER ASSY	1	1	1	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-
43	1-IA-BN52C-7F	CURRENT LOOP TO 283B PLUG	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-	1	1	1
			115V, 6ØHZ	22ØV/24ØV 5Ø/6ØHZ	1ØØV/127V 5Ø/6ØHZ	115V, 6ØHZ	22ØV/24ØV 5Ø/6ØHZ	1ØØV/127V 5ØHZ	115V, 6ØHZ	22ØV/24ØV 5Ø/6ØHZ	1ØØV/127V 5Ø/6ØHZ	115V, 6ØHZ	22ØV/24ØV 5ØHZ	1ØØV/127V 5ØHZ	115V, 6ØHZ	22ØV/24ØV 5ØHZ	1ØØV/127V 5ØHZ	115V, 6ØHZ	22ØV/24ØV 5ØHZ	1ØØV/127V 5ØHZ

REVISIONS

CHK	CHANGE NO.	REV.
EB	VT55-00003 REVISIED & REDRAWN J. Charles 4-21-76 E. KING Ed King 27-Apr-76	C
SC	VT55-00004 D. Chiasson 4 Oct. 76 E. KING Ed King 18 OcT. 76	D
JC	VT55-00005 R. Hamel 1-Nov-76 E. KING D. Budiansky 16 Nov 76	E
KH	VT55-00007 W. Fisher 31 Jan 77 G. BUDIANSKY Ed King 31 JAN 77	F

DEC FORM NO.
DRC 110 A

DRN. J. Fornagiel	11 MAR 76	FIRST USED ON VT55
CHK'D Bill Haas	15 MAR 76	digital
ENG. [illegible]	24 Mar 76	TITLE UNIT ASSY VT55
PROJ. ENG. Ed King	24 MAR 76	
PROD. [illegible]	24 MAR 76	
NEXT HIGHER ASSY. Ø-UA-VT55-Ø-Ø		SIZE C · CODE PL · NUMBER VT55-Ø-Ø · REV. F
SCALE —		DIST.
SHEET 1 OF 3		

ITEM NO.	PART NO.	DESCRIPTION	VT55-EA	VT55-EB	VT55-EC	VT55-EE	VT55-EF	VT55-EH	VT55-HA	VT55-HB	VT55-HC	VT55-FA	VT55-FB	VT55-FC	VT55-FE	VT55-FF	VT55-FH	VT55-JA	VT55-JB	VT55-JC
44	9009344-00	DOUBLE COATED TAPE .50W	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
45	1-IA-7011197-0-0	CRT, GROUNDING ASSEMBLY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
46	D-CS-5411815-0-1	8K CHAR, GENERATOR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
47	9006666-00	WASHER, FLAT .500 X .187 I.D. X .032 THK	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
48	1-AD-7012143-0-0	SIDE PLATE ASSEMBLY (115V,60HZ)	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	-	-
49	1-AD-7012143-1-0	SIDE PLATE ASSEMBLY (220V/240V,50/60HZ)	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	-
50	1-AD-7012143-2-0	SIDE PLATE ASSEMBLY (100V/127V,50HZ)	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1
51	9006073-03	SCR., PH TRUSS HD #10-32 X .50	-	-	-	-	-	-	-	-	-	4	4	4	4	4	4	4	4	4
52	9006668-00	WASHER, FLAT .625 X .200 I.D. X .032 THK	-	-	-	-	-	-	-	-	-	4	4	4	4	4	4	4	4	4
53	9009671-00	WASHER #8 METAL WITH GASKET	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
54	A-PL-VT55-EA-5	SHIPPING LIST (W/O COPIER)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55	A-PL-VT55-EB-5	SHIPPING LIST (W/O COPIER)	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56	A-PL-VT55-EC-5	SHIPPING LIST (W/O COPIER)	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57	A-PL-VT55-EE-5	SHIPPING LIST (W/O COPIER)	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58	A-PL-VT55-EF-5	SHIPPING LIST (W/O COPIER)	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
59	A-PL-VT55-EH-5	SHIPPING LIST (W/O COPIER)	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
60	A-PL-VT55-HA-5	SHIPPING LIST (W/O COPIER)	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
61	A-PL-VT55-HB-5	SHIPPING LIST (W/O COPIER)	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
62	A-PL-VT55-HC-5	SHIPPING LIST (W/O COPIER)	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
63	A-PL-VT55-FA-5	SHIPPING LIST (W/COPIER)	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
64	A-PL-VT55-FB-5	SHIPPING LIST (W/COPIER)	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
65	A-PL-VT55-FC-5	SHIPPING LIST (W/COPIER)	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
66	A-PL-VT55-FE-5	SHIPPING LIST (W/COPIER)	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
67	A-PL-VT55-FF-5	SHIPPING LIST (W/COPIER)	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
68	A-PL-VT55-FH-5	SHIPPING LIST (W/COPIER)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
69	A-PL-VT55-JA-5	SHIPPING LIST (W/COPIER)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
70	A-PL-VT55-JB-5	SHIPPING LIST (W/COPIER)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
71	A-PL-VT55-JC-5	SHIPPING LIST (W/COPIER)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
72	D-IA-7012032-0-0	XFORMER PLATE ASSY (115V,60HZ)	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	-	-
73	2-MD-7414866-0-0	SHELL, REWORKED	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1
74	D-IA-7012030-0-0	XFORMER PLATE ASSY (220V/240V,50/60HZ)	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	-
75	D-IA-7012030-1-0	XFORMER PLATE ASSY (100V/127V,50.60HZ)	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1
76	1212678	PERFORATED PLASTIC STRAP 6MM X 125MM	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
77	D-MD-7413410-0-0	HEAT SHIELD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
78	A-SP-3700184-1-0	PACKAGING INSTRUCTIONS WITH COPIER	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	[illegible]	1
~~79~~	~~9006047-01~~	~~SCREW, PAN HEAD #8-32 X 2~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~
80	9006713	WASHER, NYLON .437 O.D.	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
81	9007869	SPACER, 1"	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
82	E-CS-M7024-0-1	VT55 GRAPHING CONTROL MODULE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
83	9008268	THERMAL COMPOUND	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
84	9006041-01	SCREW, MACHINE #8-32 X3/4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
~~85~~	~~C-MD-7416412-0-0~~	~~SHIELD, EMI~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~
86	2-MD-7417609-0-0	CLIP CABLE CONNECTOR	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	[illegible]	[illegible]
			115V,60HZ	220V/240V 50/60HZ	100V/127V 50/60HZ	115V/60HZ	220V/240V 50/60HZ	100V/127V 50HZ	115V,60HZ	220V/240V 50/60HZ	100V/127V 50/60HZ	115V,60HZ	220V/240V 50HZ	100V/127V 50HZ	115V,60HZ	220V/240V 50HZ	100V/127V 50HZ	115V,60HZ	220V/240V 50HZ	100V/127V 50HZ

REVISIONS	
REV.	
CHANGE NO.	
CHK	

DRN.	[illegible]	11MAR76	FIRST USED ON VT55
CHK'D	[illegible]	15MAR76	digital
ENG.	[illegible]	24MAR76	TITLE UNIT ASSY VT55
PROJ. ENG.	[illegible]	24MAR76	
PROD.	[illegible]	24MAR76	
NEXT HIGHER ASSY.	0-UA-VT55-0-0		SIZE C · CODE PL · NUMBER VT55-0-0 · REV. F
SCALE	—		DIST.
SHEET 2 OF 3			

SIZE C CODE PL NUMBER VT55-0-0 REV. F

DEC FORM NO. DRC 110 A

ITEM NO.	PART. NO.	DESCRIPTION	VT55-EA	VT55-EB	VT55-EC	VT55-EE	VT55-EF	VT55-EH	VT55-HA	VT55-HB	VT55-HC	VT55-FA	VT55-FB	VT55-FC	VT55-FE	VT55-FF	VT55-FH	VT55-JA	VT55-JB	VT55-JC
87	9000007-01	SCREW NYLON 10-32 x 5/16 LONG	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1
88	9006664	WASHER FLAT .437 x .218 I.D. x .062 THK	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1
			115V,60HZ	220V/240V 50/60HZ	100V/127V 50/60HZ	115V/60HZ	220V/240V 50/60HZ	100V/127V 50HZ	115V,60HZ	220V/240V 50/60HZ	100V/127V 50/60HZ	115V,60HZ	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

REVISIONS: REV. | CHANGE NO. | CHK

DRN. R. HOVEY	3/11/76
CHK'D R. HOVEY	3/15/76
ENG. G. BUDIANSKY	3/24/76
PROJ. ENG. E. KING	3/24/76
PROD. D. GROUT	3/24/76
NEXT HIGHER ASSY. Ø-UA-VT55-Ø-Ø	
SCALE	
SHEET 3 OF 3	

FIRST USED ON VT55

digital

TITLE
UNIT ASSY
VT55

SIZE	CODE	NUMBER	REV.
C	PL	VT55-Ø-Ø	F

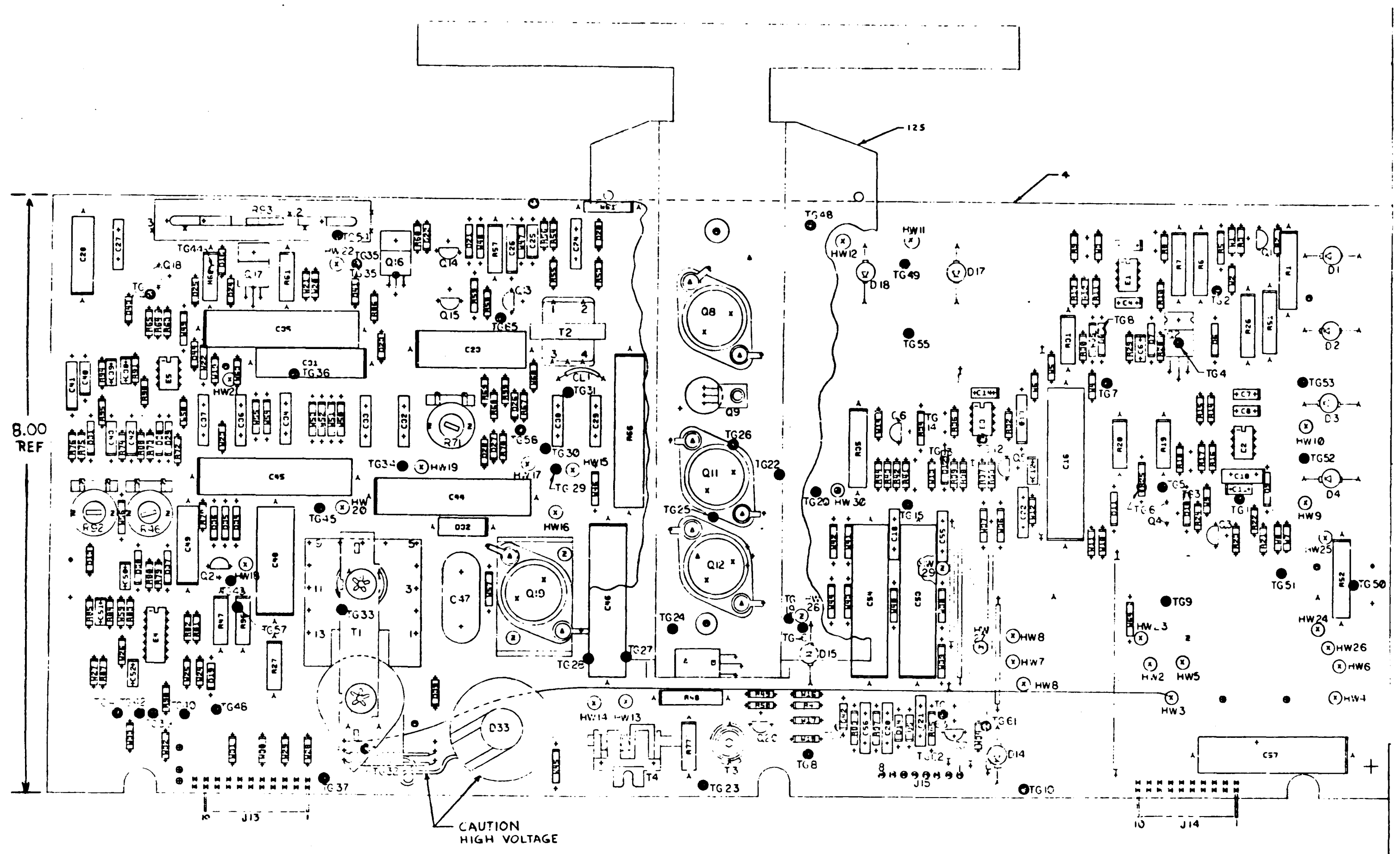
DIST.

SIZE C CODE PL NUMBER VT55-Ø-Ø REV. F

DEC FORM NO. DRC 110 A

CONN	PIN	NAME
J13	1	+5
	2	GND
	3	SYNC H
	4	GND
	5	HORIZ
	6	GND
	7	VIDEO H
	8	GND
	9	VERT H
	10	+15
J13	11	UNUSED
J14	1	UNUSED
	2	-12
	3	-5
	4	+5 SENSE
	5	+5
	6	+5
	7	GND SENSE
	8	GND
	9	GND
J14	10	GND
J15	1	+5
	2	+5
	3	+5
	4	-5
	5	-12
	6	GND
	7	GND
J15	8	ZL

NOTES:
1. THERE IS NO ETCH TO D33, CONNECTIONS ARE HARD WIRED
2. ETCH AND PUNCH/DRILL FOR TØ-5 AND TØ-220. VT50 ALLOWANCE
3. CURRENT LOOP 4 INCH LENGTH *22 AWG WIRE
4. ETCH BUT DO NOT INSERT. VT50 ALLOWANCE
5. (5) MUST BE CONNECTED TO A SINGLE GND POINT
6. NOT ON BOARD
7. FOR C13, PROVIDE FOR ALTERNATE 47ØØ pf DM CAPACITOR FOR VT50



SEE OFF SHEET PARTS LIST

IC TYPE	GND	+5V	-12	+15
DEC 741			4	7
DEC LM301			4	7

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

IC PIN LOCATIONS

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

FIRST USED ON OPTION MODEL: VT55

ETCH BOARD REV. F

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

SEMICONDUCTOR CONVERSION CHART

REVISIONS — REV. L — CHANGE NO. 5411450-00005 — E.D. KING

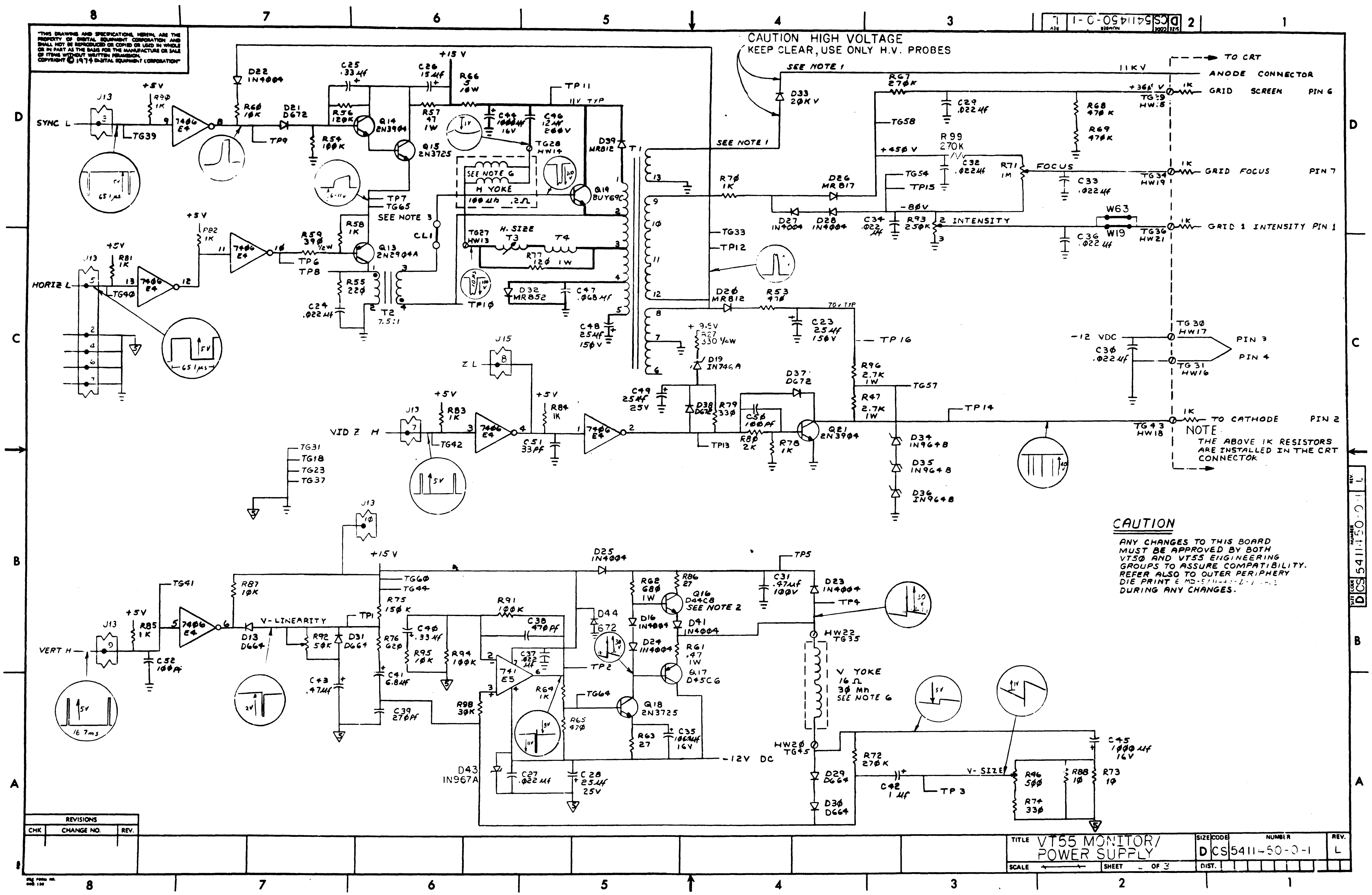
DRN. VINCENT — DATE 1-30-75
CHK'D. — DATE 3-1-77
ENG. R. JOHNSON — DATE 3-4-75
PROJ. ENG. E. KING — DATE 3-22-75
PROD. — DATE 3-22-75
NEXT HIGHER ASSY
SCALE —
SHEET 1 OF 3

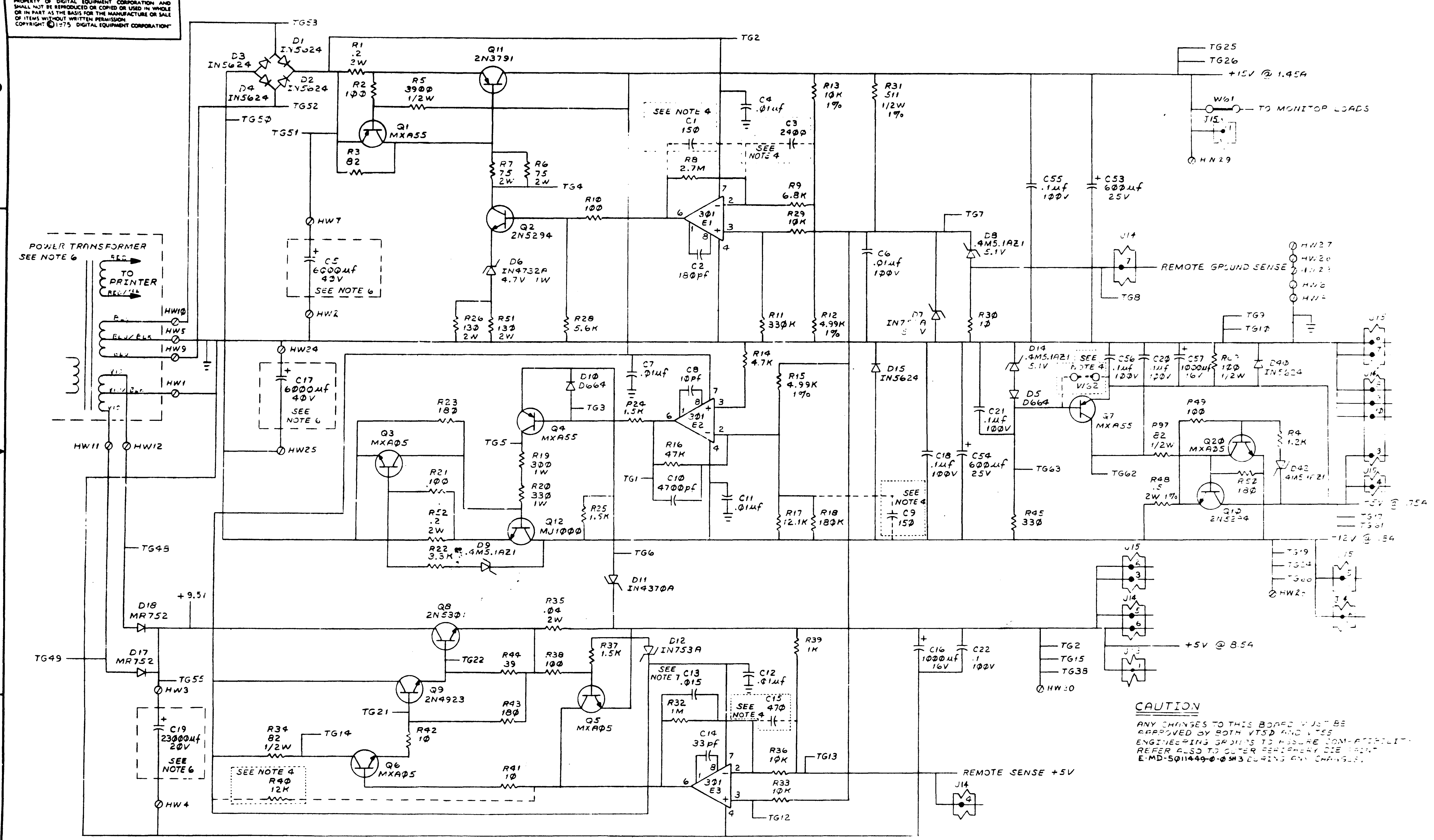
digital

TITLE VT55 MONITOR/ POWER SUPPLY

SIZE D — CODE CS — NUMBER 5411450-0-1 — REV. L

DIST.


CAUTION HIGH VOLTAGE
KEEP CLEAR, USE ONLY H.V. PROBES
SEE NOTE 1
TO CRT
ANODE CONNECTOR
GRID SCREEN PIN 6
GRID FOCUS PIN 7
GRID 1 INTENSITY PIN 1
PIN 3
PIN 4
TO CATHODE PIN 2
NOTE
THE ABOVE 1K RESISTORS ARE INSTALLED IN THE CRT CONNECTOR
CAUTION
ANY CHANGES TO THIS BOARD MUST BE APPROVED BY BOTH VT50 AND VT55 ENGINEERING GROUPS TO ASSURE COMPATIBILITY. REFER ALSO TO OUTER PERIPHERY DIE PRINT
DURING ANY CHANGES.
SYNC L
HORIZ L
VID Z H
VERT H
H YOKE
H. SIZE
V YOKE
V-LINEARITY
V-SIZE
FOCUS
INTENSITY
REVISIONS
CHK
CHANGE NO.
REV.
TITLE VT55 MONITOR/ POWER SUPPLY
SIZE D
CODE CS
NUMBER 5411-50-0-1
REV. L
SHEET _ OF 3



CAUTION

ANY CHANGES TO THIS BOARD MUST BE APPROVED BY BOTH VT50 AND VT55 ENGINEERING GROUPS TO INSURE COMPATIBILITY. REFER ALSO TO OTHER PERIPHERAL DIE PRINT E-MD-5011449-0-0 SH3 DURING ANY CHANGES.

REVISIONS		
CHK	CHANGE NO	REV

TITLE VT55 MONITOR/ POWER SUPPLY

SIZE D | CODE CS | SHEET 3 OF 3

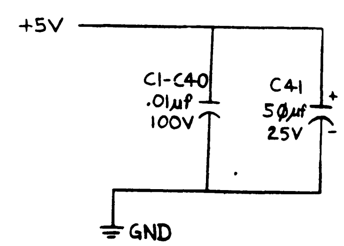
DEC FORM NO. DRD 138

NOTES:

1. COMPONENTS NOT TO BE INSERTED: R8, R9.
2. FOR VT51 (VARIATION -2/-3) E29 THRU E45 WILL BE DELETED. JUMPER WIRES W6 THRU W1Ø WILL BE DELETED AND JUMPER WIRES W1 THRU W5 WILL BE INSERTED.

LEGEND

NUMBER	VARIATION
5411745-0	BASIC VT52
5411745-1	HEAT CYCLED, SYSTEM TESTED 5411745-0
5411745-2	BASIC VT51
5411745-3	HEAT CYCLED, SYSTEM TESTED 5411745-2



7442	8	16
74155	8	16
74150	12	24
74193	8	16
7485	8	16
74157	8	16
2102	9	10
IC TYPE	GND	+5V

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

IC PIN LOCATIONS

REVISIONS

REV.	CHANGE NO.	CHK
J	5411745-PN009	
H	5411745-PN008	
F	[illegible]	
E	5411745-PN005	
D	5411745-00004	

J. DESUK
J. DESUK
REVISED & REDRAWN
9 JUN 76
4-AUG-78
11-21-77

SEE B-PL-5411745-0-0

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

FIRST USED ON OPTION MODEL: VT51/VT52

ETCH BOARD REV. B

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

SEMICONDUCTOR CONVERSION CHART

DRN.	T. MISITANO	DATE 7-14-75
CHK'D.	R. PUCCI	DATE 7-20-75
ENG.	T. MISITANO	DATE 9-24-75
PROJ. E.	M. MORGANSTERN	DATE 9-24-75
PROD.	R. PUCCI	DATE 9-24-75

NEXT HIGHER ASSY

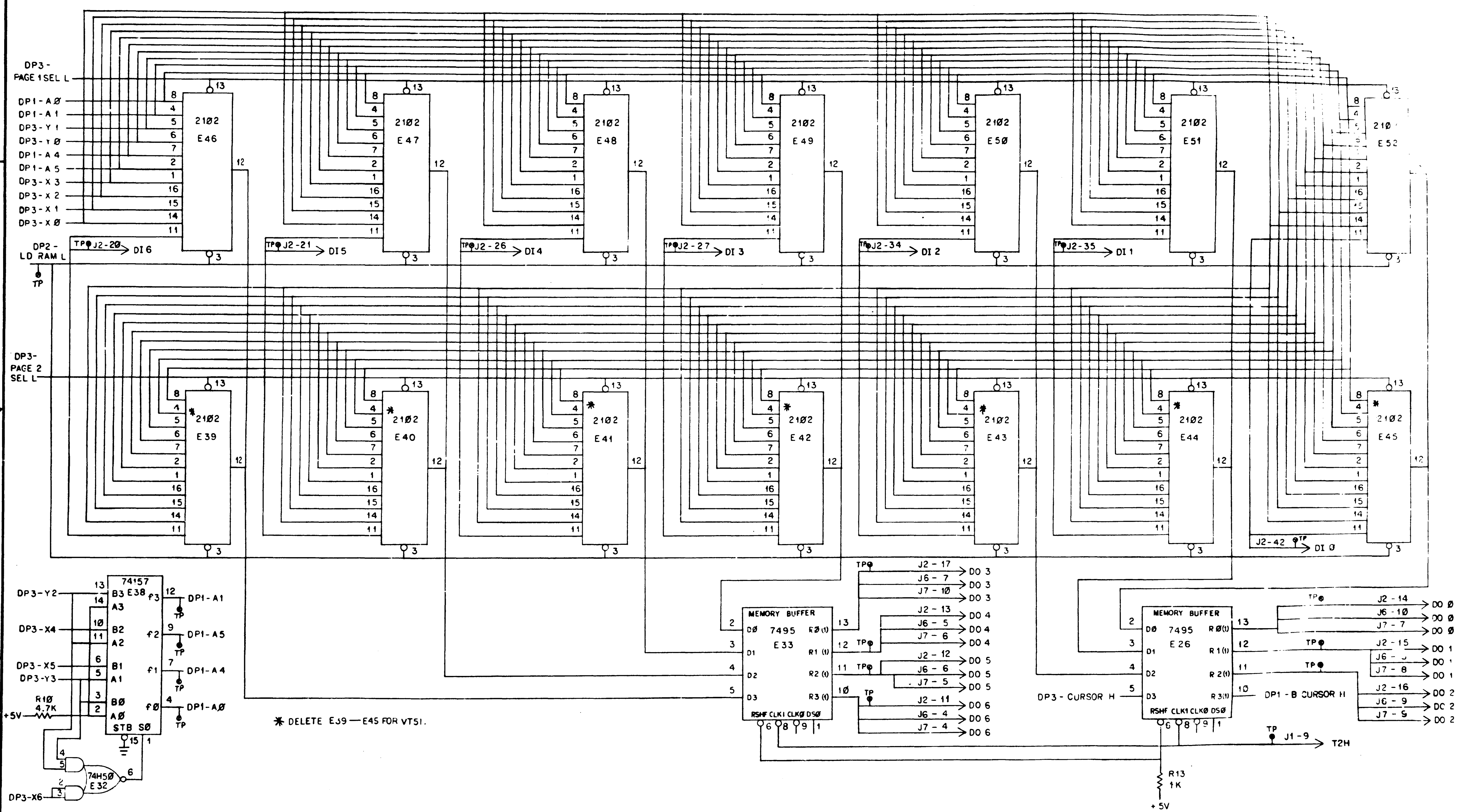
SCALE —/— SHEET 1 OF 5

digital

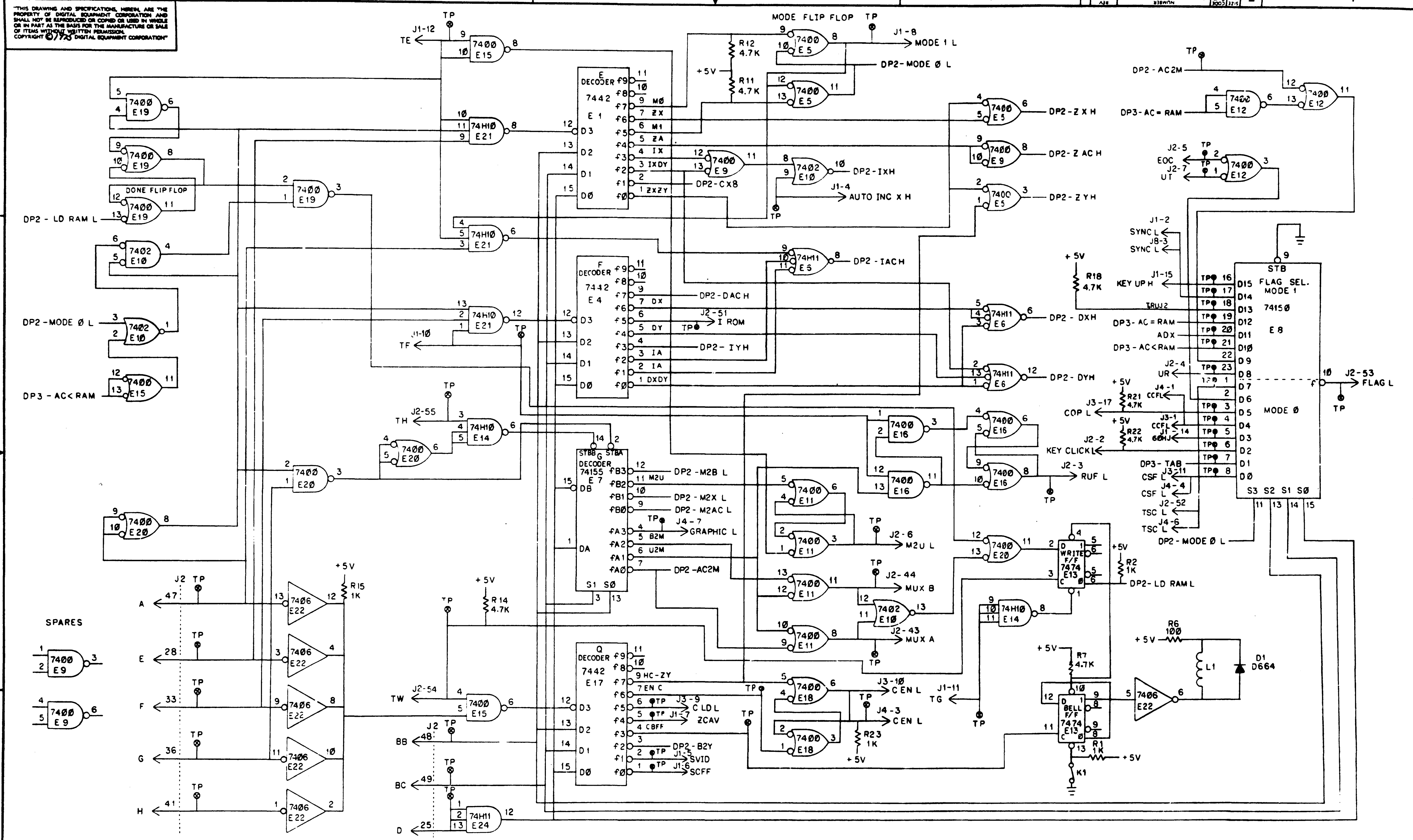
TITLE: DATA PATH, MEMORY AND DECODERS

SIZE D CODE CS NUMBER 5411745-Ø-1 REV. J

DIST.



TITLE (DP1)	SIZE	CODE	NUMBER	REV.
DATA PATHS, MEMORY AND DECODERS	D	CS	5411745-Ø-1	J
SCALE	SHEET 2 OF 5	DIST.		

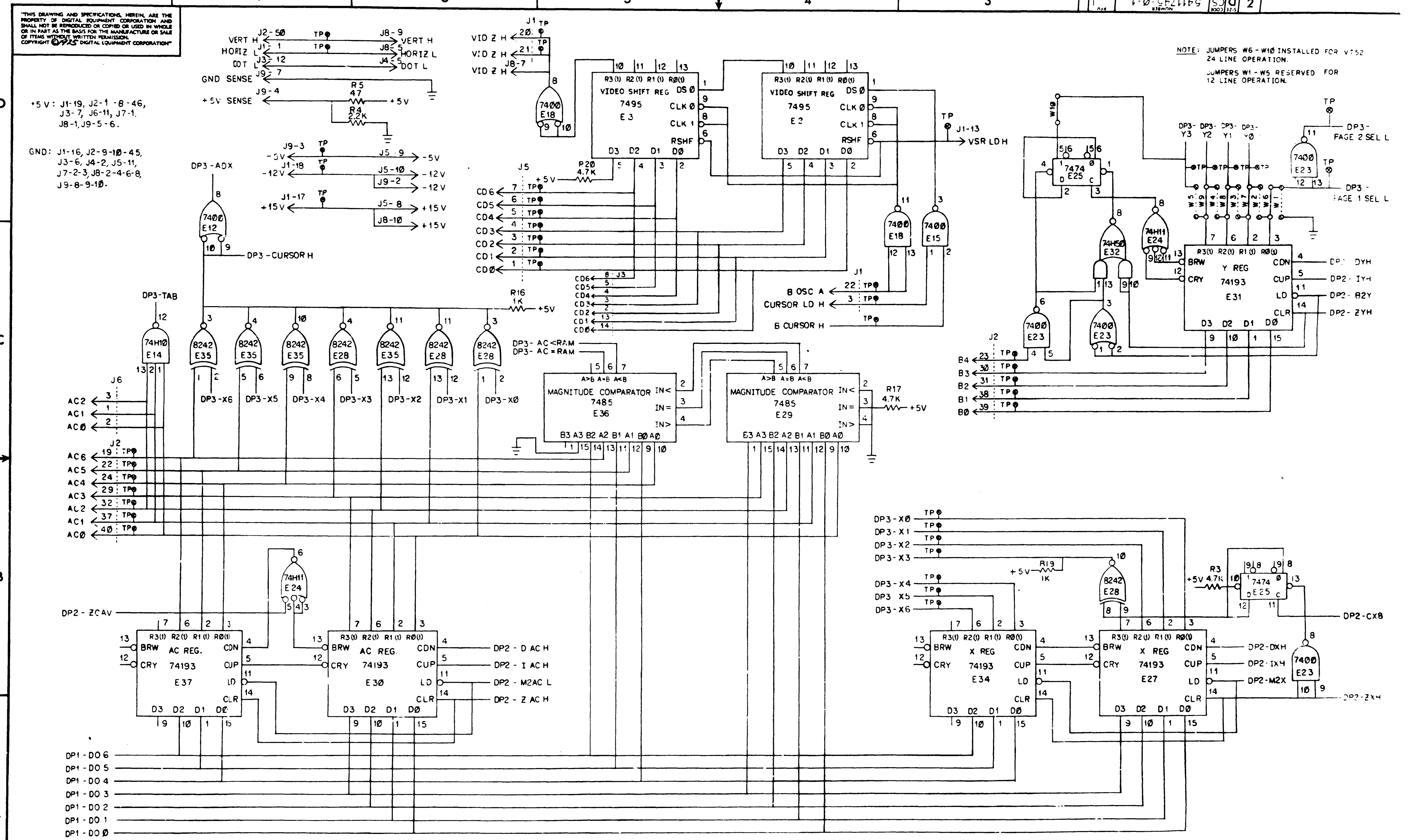


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE DATA PATHS, MEMORY AND DECODERS (DP2)

SIZE D CODE CS NUMBER 5411745-0-1 REV. J

SCALE — SHEET 3 OF 5



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: DATA PATHS, MEMORY AND DECODERS (DP3)

SIZE: D | CODE: CS | NUMBER: 5411745-0-1 | REV: J

SCALE: —/— | SHEET 4 OF 5

WIRE TABLE

ITEM NO	DESCRIPTION AWG	COLOR	FROM CONNECTION	TO CONNECTION
40	22	BLK	———	J9-1
		BRN	———	2
		RED	———	3
		ORN	———	4
		YEL	———	5
		GRN	———	6
		BLU	———	7
		VIO	———	8
		GRY	———	9
40		WHT	———	J9-10
40		BLK	———	J8-1
		BRN	———	2
		RED	———	3
		ORN	———	4
		YEL	———	5
		GRN	———	6
		BLU	———	7
		VIO	———	8
		GRY	———	9
40	22	WHT	———	J8-10

J1 RUT CONN.
1 HORIZ L
2 SYNC L
3 CURSOR LD H
4 AUTO INC X H
5 SVID
6 SCFF
7 ZCAV
8 MODE I L
9 T2H
10 TF
11 TG
12 TE
13 VSR LD H
14 6ØHJ
15 KEY UP H
16 GND
17 +15V
18 -12V
19 +5V
20 VID Z H
21 VID Z H
22 B OSC A

J2 RUT CONN.
1 +5V
2 KEY CLK L
3 RUF L
4 UR
5 UT
6 M2U L
7 EOC
8 +5V
9 GND
10 GND
11 DO6
12 DO5
13 DO4
14 DOØ
15 DO1
16 DO2
17 DO3
18 M2B L
19 AC6
20 DI6
21 DI5
22 AC5
23 B4
24 AC4
25 D
26 DI4
27 DI3
28 E
29 AC3
30 B3
31 B2
32 AC 2
33 F
34 DI 2
35 DI1
36 G
37 AC1
38 B1
39 BØ
40 ACØ
41 H
42 DIØ
43 MUX A
44 MUX B
45 GND
46 +5V
47 A
48 BB
49 BC
50 VERT H
51 I ROM
52 TSC L
53 FLAG L
54 TW
55 TH

J3 COPIER-CONN.
1 CCFL
2 CD2
3 CD3
4 CD4
5 CD5
6 GND
7 +5V
8 CD6
9 C LD L
10 C EN L
11 CSFL
12 DOT L
13 CD1
14 CDØ
15 ——
16 ——
17 COPL
18 ——
19 ——
20 ——

J4 GRAPHICS-CONN.
1 CCFL
2 GND
3 C ENL
4 CSFL
5 DOTL
6 TSC L
7 GRAPHIC L

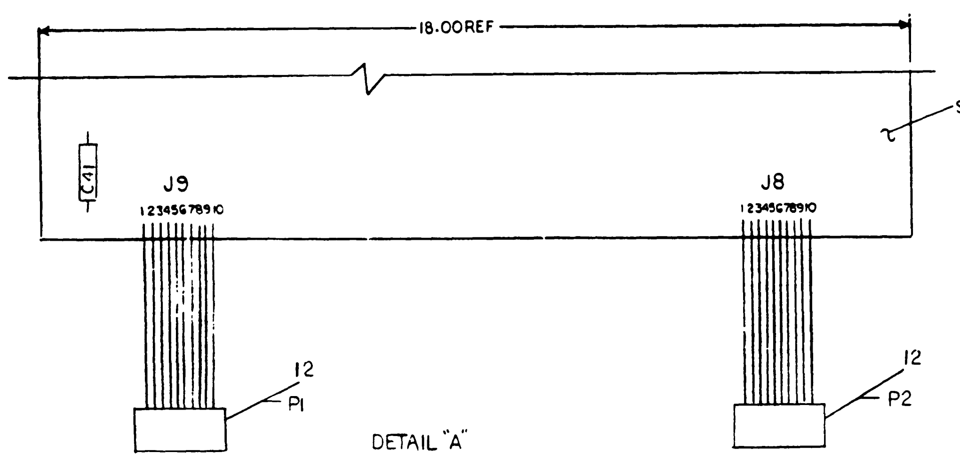
J5 CHAR.GEN.CONN.
1 CDØ
2 CD1
3 CD2
4 CD3
5 CD4
6 CD5
7 CD6
8 +15V
9 -5V
10 -12V
11 GND

J6 CHAR.GEN.CONN.
1 AC1
2 ACØ
3 AC2
4 DO6
5 DO4
6 DO5
7 DO3
8 DO1
9 DO2
10 DOØ
11 +5V

J7 GRAPHICS-CONN.
1 +5V
2 GND
3 GND
4 DO6
5 DO5
6 DO4
7 DOØ
8 DO1
9 DO2
10 DO3

J8 MONITOR-CONN.
1 +5V
2 GND
3 SYNC L
4 GND
5 HORIZ L
6 GND
7 VID Z H
8 GND
9 VERT H
10 +15V

J9 POWER CONN.
1
2 -12V
3 -5V
4 +5V SENSE
5 +5V
6 +5V
7 GND SENSE
8 GND
9 GND
10 GND



DETAIL "A"
SCALE: NONE

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE DATA PATHS MEMORY AND DECODERS

SIZE	CODE	NUMBER	REV.
D	CS	5411745-0-1	J

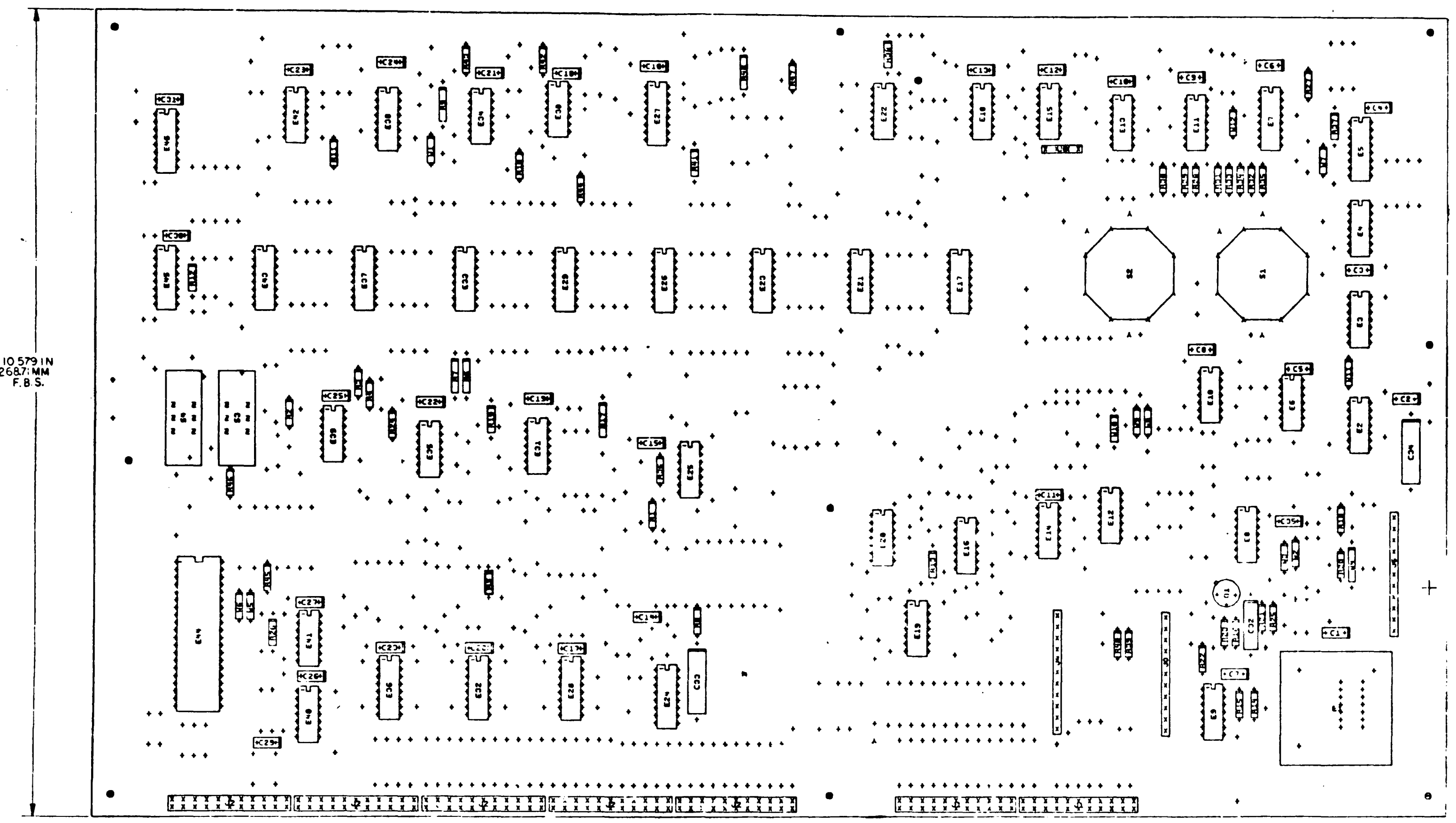
SCALE —/— SHEET 5 OF 5
DIST.

D CS 5411743-0-1 REV L

NOTES:

1. COMPONENTS NOT TO BE INSERTED: R28-R35, R39, R40, R42-R44
2. OPTIONAL JUMPERS: W1-W12

10.579 IN
268.71 MM
F.B.S.



J1 DATA PATH CONN.
1 HORIZ L
2 SYNC L
3 CURSOR LD H
4 AUTO INC X H
5 SVID
6 SCFF
7 ZCAV
8 MODE I L
9 T2H
10 TF
11 TG
12 TE
13 VSR LD H
14 60HJ
15 KEY UP H
16 GND
17 +15V
18 -12V
19 +5V
20 VID Z H
21 VID Z H
22 B OSC A

J2 DATA PATH CONN.	
1 +5V	29 AC 3
2 KEY CLICK L	30 B3
3 RUF L	31 B2
4 UR	32 AC 2
5 UT	33 F
6 MTU L	34 DI 2
7 EOC	35 [illegible]
8 +5V	36 [illegible]
9 GND	37 AC [illegible]
10 GND	38 [illegible]
11 DO 6	39 B[illegible]
12 DO 5	40 AC 0
13 DO 4	41 H
14 DO 0	42 DI 0
15 DO 1	43 MUX A
16 DO 2	44 MUX B
17 DO 3	45 GND
18 [illegible] L	46 +5V
19 [illegible]	47 A
20 [illegible]	48 BB
21 DI 5	49 B[illegible]
22 AC 5	50 VERT H
23 B4	51 [illegible] ROM
24 AC 4	52 TSC L
25 D	53 FLAG L
26 DI 4	54 TW
27 DI 3	55 TH
28 E	

J3 DOT X-FER CONN
1 —
2 —
3 —
4 —
5 —
6 VID Z H
7 VID Z H
8 GND
9 [illegible] L
10 INIT H
11 [illegible] H

J4 [illegible] CONN
1 +5V
2 -12V
3 +15V
4 GND
5 REC DATA H
6 —
7 TRANS DATA L
8 —
9 —
10 —
11 —

J5 KEYBOARD CONN.
1 [illegible] KEY
2 BRK KEY L
3 AC 0
4 AC 1
5 AC 2
6 AC 3
7 AC 4
8 AC 5
9 GND
10 KEY UP H
11 +5V

x disagrees w. KBD dwgs

J6 [illegible] CONN
1 GND
2 H FLY H
3 EN CYCLE
4 INIT L

not shown

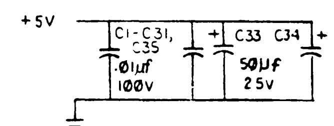
LEGEND

VARIATION	DESCRIPTION
5411743-00	VT52 COPIER ROMS
5411743-01	HEAT AND SYSTEM TESTED 5411743-00
5411743-02	VT55 BASIC
5411743-03	HEAT AND SYSTEM TESTED 5411743-02
5411743-04	VT52 BASIC, PRINTER ROMS
5411743-05	HEAT AND SYSTEM TESTED 5411743-04
5411743-06	VT51 BASIC
5411743-07	HEAT AND SYSTEM TESTED 5411743-06

JUMPER WIRE TABLE

	VT 52	VT 51	VT 55
W1	OUT	IN	OUT
W2	OUT	IN	OUT
W3	IN	OUT	IN
W4	IN	OUT	IN

SEE OFF SHEET PARTS LIST



1402	3	1
6306A	8	16
74153	8	16
7490	10	5
7493	10	5
74161	8	16
IC TYPE	GND	+5V

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

IC PIN LOCATIONS

REVISIONS

REV.	CHANGE NO.		
*	ORIGINATED		
A	5411743-00001	M MORGANSTERN	13 JAN 76
B	5411743-00002	M MORGANSTERN, S. CHLYPAWKA	3-12-76
C	5411743-00003	REVISED & REDRAWN, M MORGANSTERN	4-21-76, RFO 5-11-76
D	5411743-00004	M. MORGANSTERN	6-17-76
E	5411743-00005	J. CARTER 18 JAN 77	7-13-7[illegible]
F	5411743-PN006	M. WHITTLESEY	2-Feb-77, 23 FEB 77
H	5411743-PN007	M. WHITTLESEY	2-MAR-77, 4 APR 77
K	5411743-PN008A	J. DESUK	28-JUL-77, 19 OCT 77
L	5411743-PN009	J. BITTO	18 AUG 78, 22 AUG 78

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

SEMICONDUCTOR CONVERSION CHART

FIRST USED ON OPTION MODEL: VT52

ETCH BOARD REV. D

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

DRN.	TOM MISITANO	DATE 4-16-75
CHK'D.	R. PUCCI	DATE 9-22-75
ENG.	TOM MISITANO	DATE 9-22-75
PROJ. ENG.	M. MORGANSTERN	DATE 9-22-75
PROD.	R. PUCCI	DATE 9-24-75

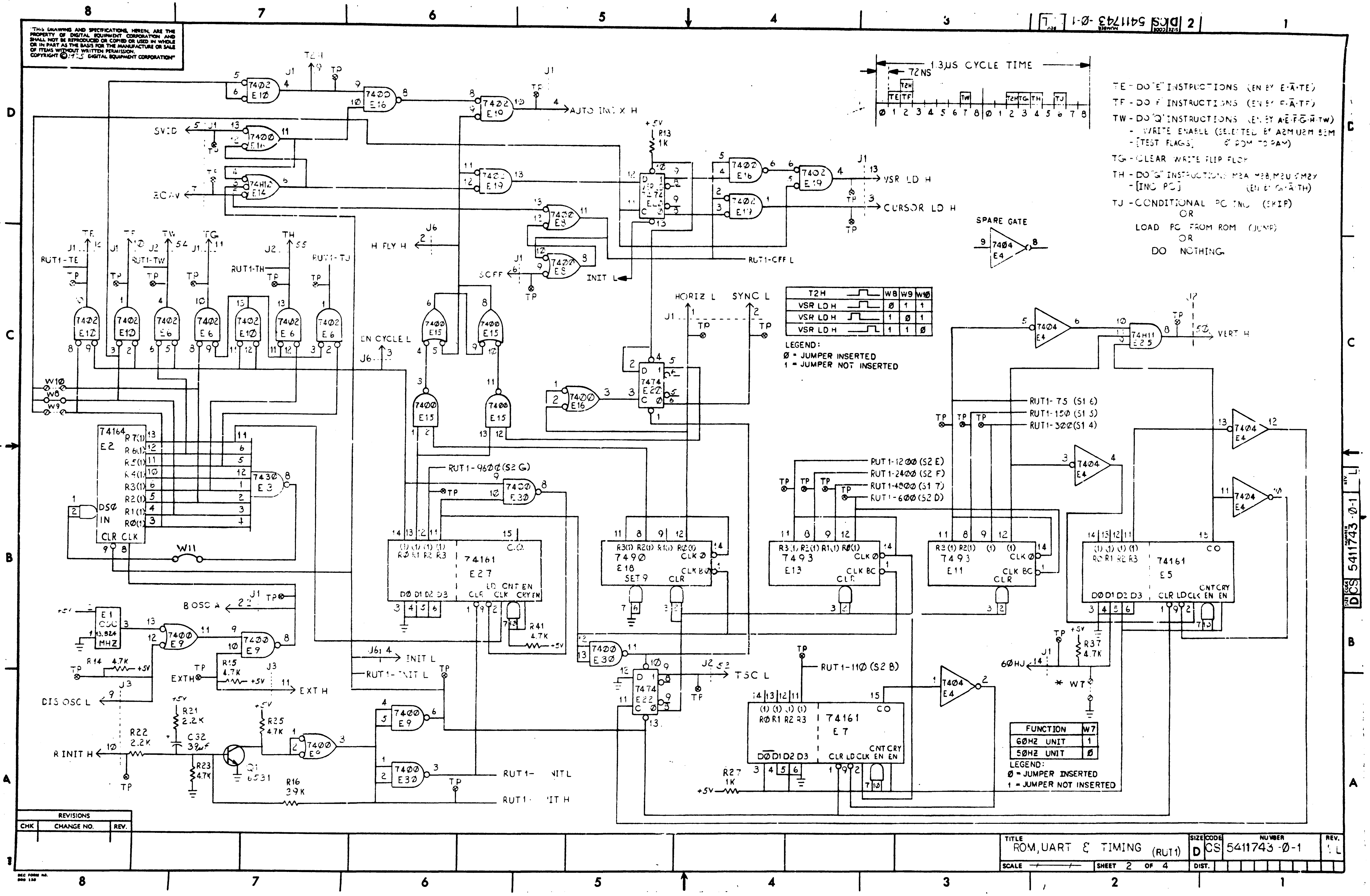
NEXT HIGHER ASSY
SCALE
SHEET 1 OF 4

digital

TITLE ROM, UART AND TIMING

SIZE D CODE CS NUMBER 5411743-0-1 REV. L

DIST.



		W8	W9	W1Ø
T2H				
VSR LD H		Ø	1	1
VSR LD H		1	Ø	1
VSR LD H		1	1	Ø

FUNCTION	W7
6ØHZ UNIT	1
5ØHZ UNIT	Ø

LEGEND:
Ø = JUMPER INSERTED
1 = JUMPER NOT INSERTED

TITLE: ROM, UART & TIMING (RUT1)

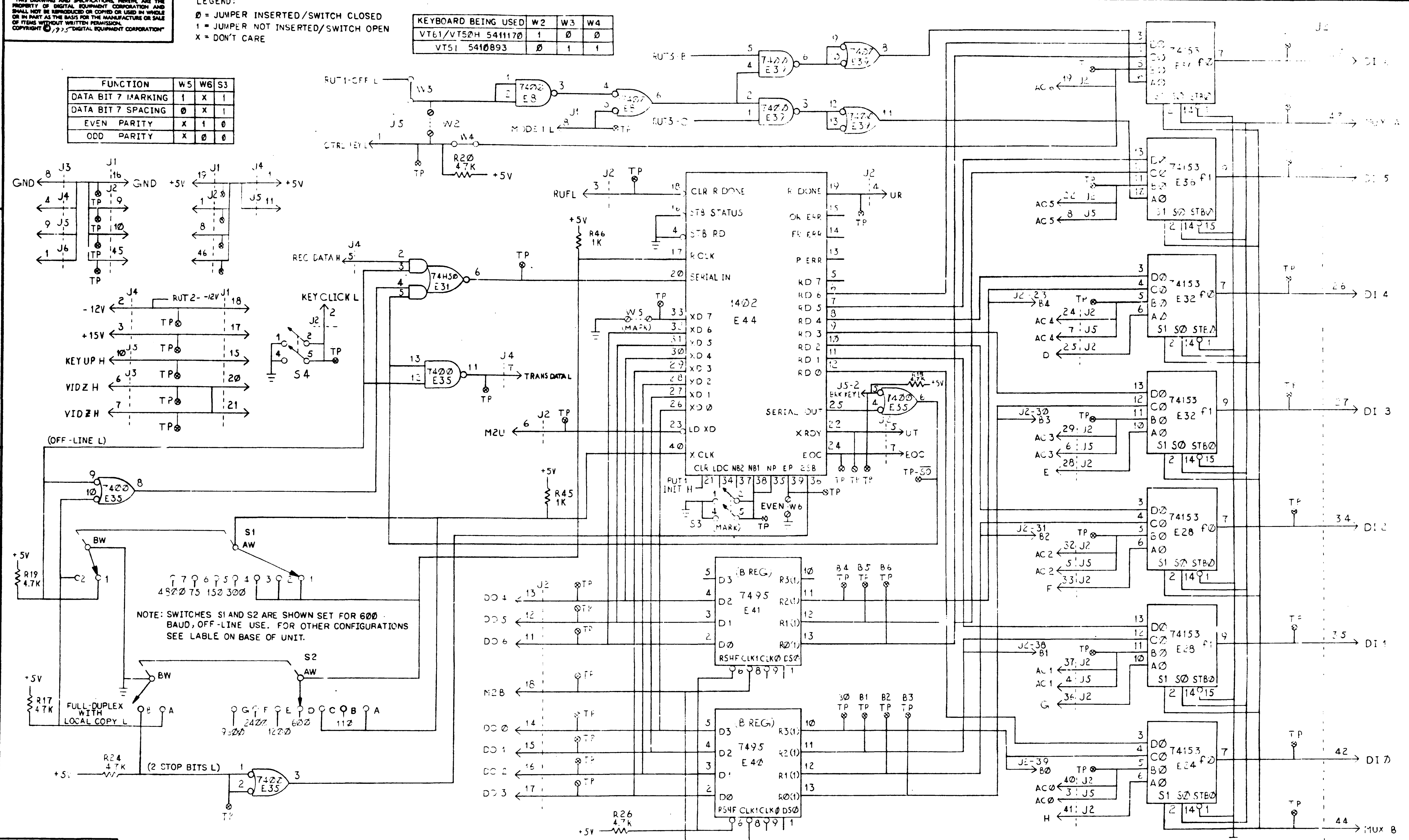
SIZE D — CODE CS — NUMBER 5411743-Ø-1 — REV. L

SHEET 2 OF 4

LEGEND:
Ø = JUMPER INSERTED/SWITCH CLOSED
1 = JUMPER NOT INSERTED/SWITCH OPEN
X = DON'T CARE

KEYBOARD BEING USED	W2	W3	W4
VT61/VT52H 5411170	1	Ø	Ø
VT51 5410893	Ø	1	1

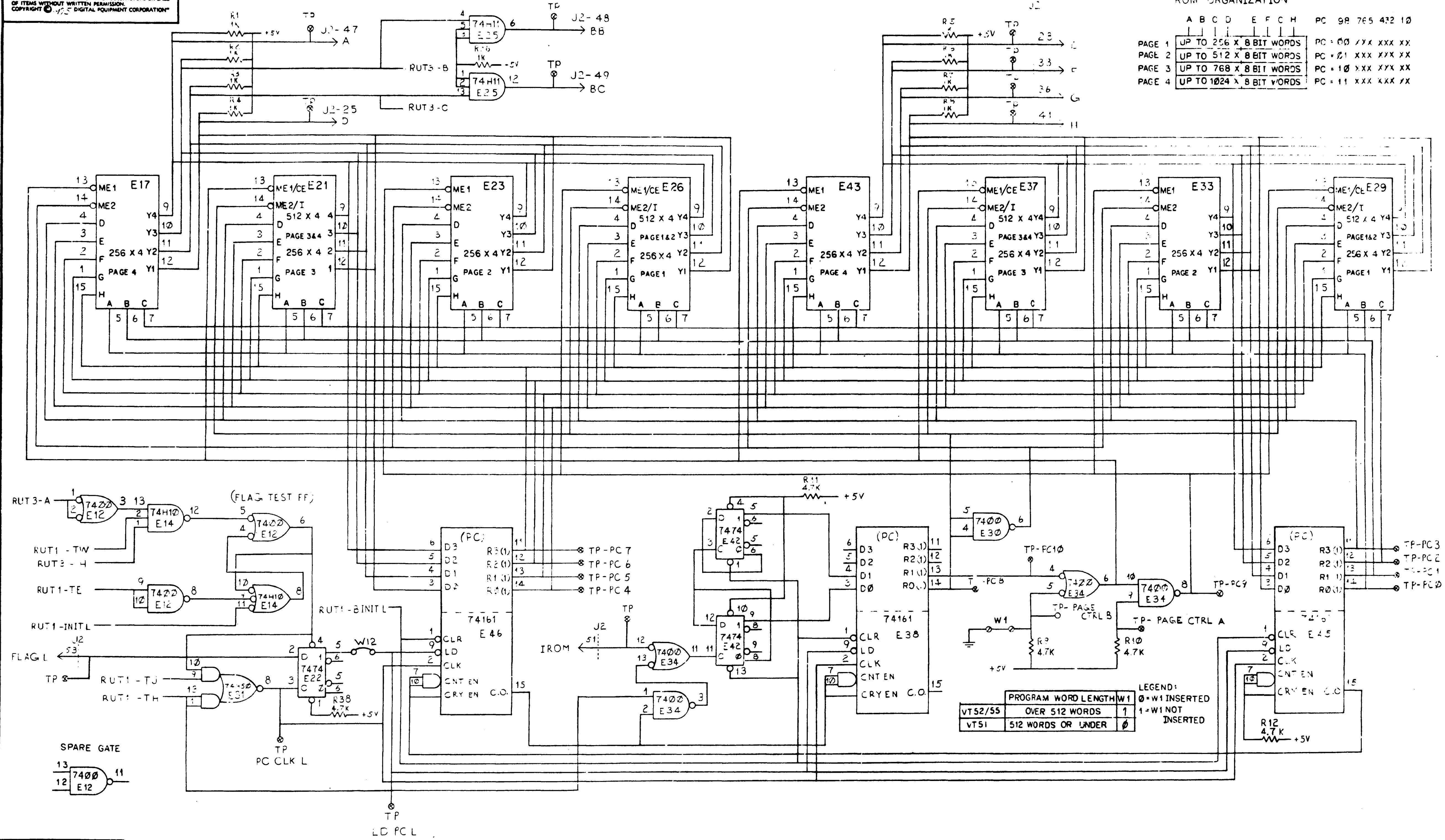
FUNCTION	W5	W6	S3
DATA BIT 7 MARKING	1	X	1
DATA BIT 7 SPACING	Ø	X	1
EVEN PARITY	X	1	Ø
ODD PARITY	X	Ø	Ø



NOTE: SWITCHES S1 AND S2 ARE SHOWN SET FOR 600 BAUD, OFF-LINE USE. FOR OTHER CONFIGURATIONS SEE LABLE ON BASE OF UNIT.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: ROM, UART & TIMING (RUT2)
SIZE: D CODE: CS NUMBER: 5411743-Ø-1 REV. L
SCALE — SHEET 3 OF 4



ROM ORGANIZATION

	A B C D	E F G H	PC 98 765 432 10
PAGE 1	UP TO 256 X	8 BIT WORDS	PC = 00 XXX XXX XX
PAGE 2	UP TO 512 X	8 BIT WORDS	PC = 01 XXX XXX XX
PAGE 3	UP TO 768 X	8 BIT WORDS	PC = 10 XXX XXX XX
PAGE 4	UP TO 1024 X	8 BIT WORDS	PC = 11 XXX XXX XX

	PROGRAM WORD LENGTH	W1
VT52/55	OVER 512 WORDS	1
VT51	512 WORDS OR UNDER	0

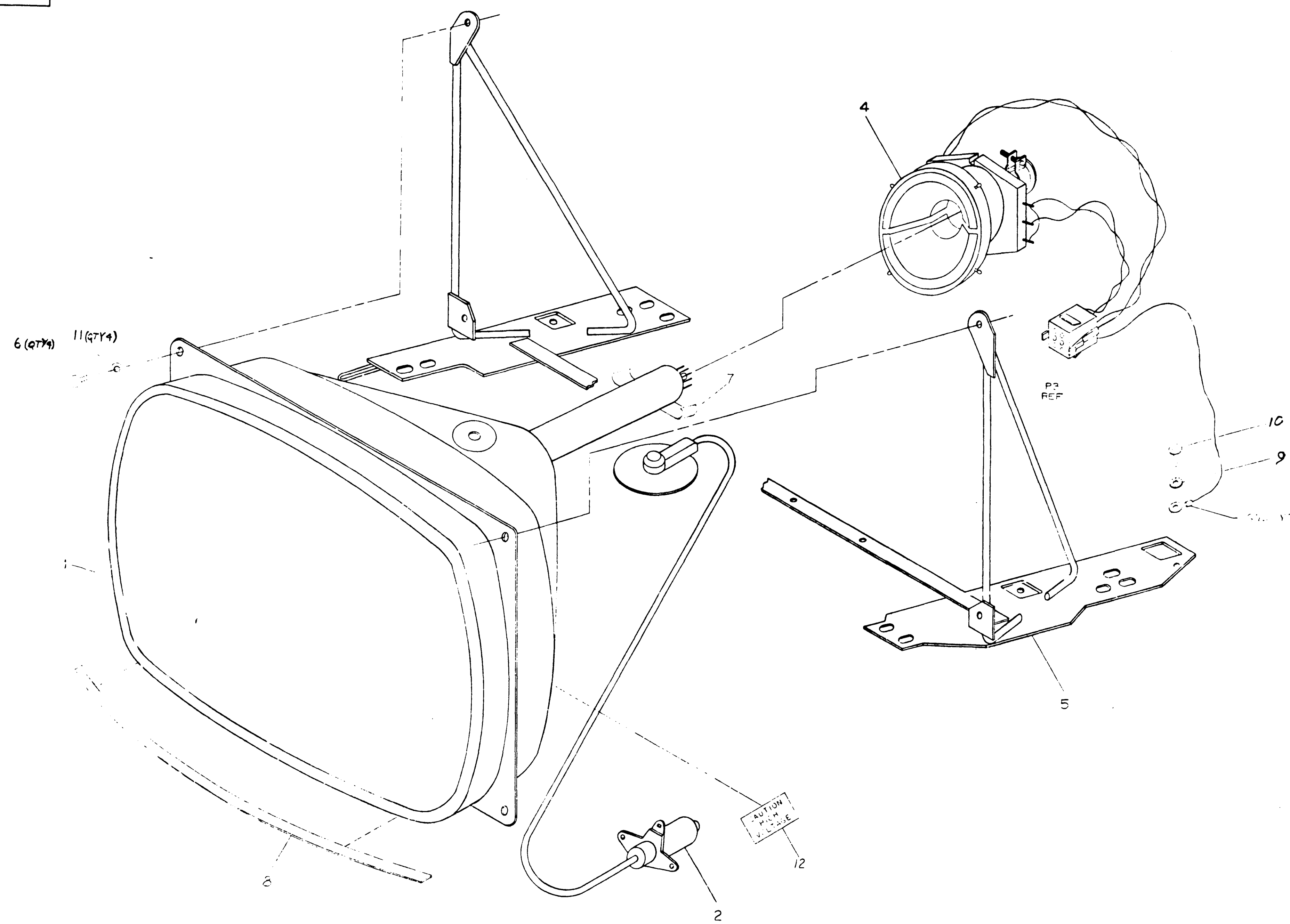
LEGEND:
0 = W1 INSERTED
1 = W1 NOT INSERTED

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: ROM, UART & TIMING (RUT3)

SIZE: D | CODE: CS | NUMBER: 5411743-0-1 | REV.: L

SCALE — | SHEET 4 OF 4 | DIST.



METRIC DIMENSIONS

QTY	DESCRIPTION	DIG PART NO.	ITEM
1	DECAL HIGH VOLTAGE	[illegible]	12
4	[illegible]	[illegible]6	11
1	[illegible]	[illegible]	10
[illegible]	[illegible]	[illegible]	9
A/R	TAPE, GREEN	[illegible]337	8
A/R	TAPE, GRAY [illegible]	[illegible]339	7
4	[illegible]	[illegible]-3	6
1	WIREFORM, CRT	[illegible]	5
1	ASSEMBLY, YOKE	[illegible]	4
~~4~~	~~SCREW [illegible]~~	~~[illegible]~~	~~3~~
1	[illegible] HIGH VOLTAGE	[illegible]53	2
1	TUBE, CATHODE RAY	[illegible]	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FINISH: —

NEXT HIGHER ASSY: [illegible]VT50-0-0

SCALE: —

SHEET 1 OF 1

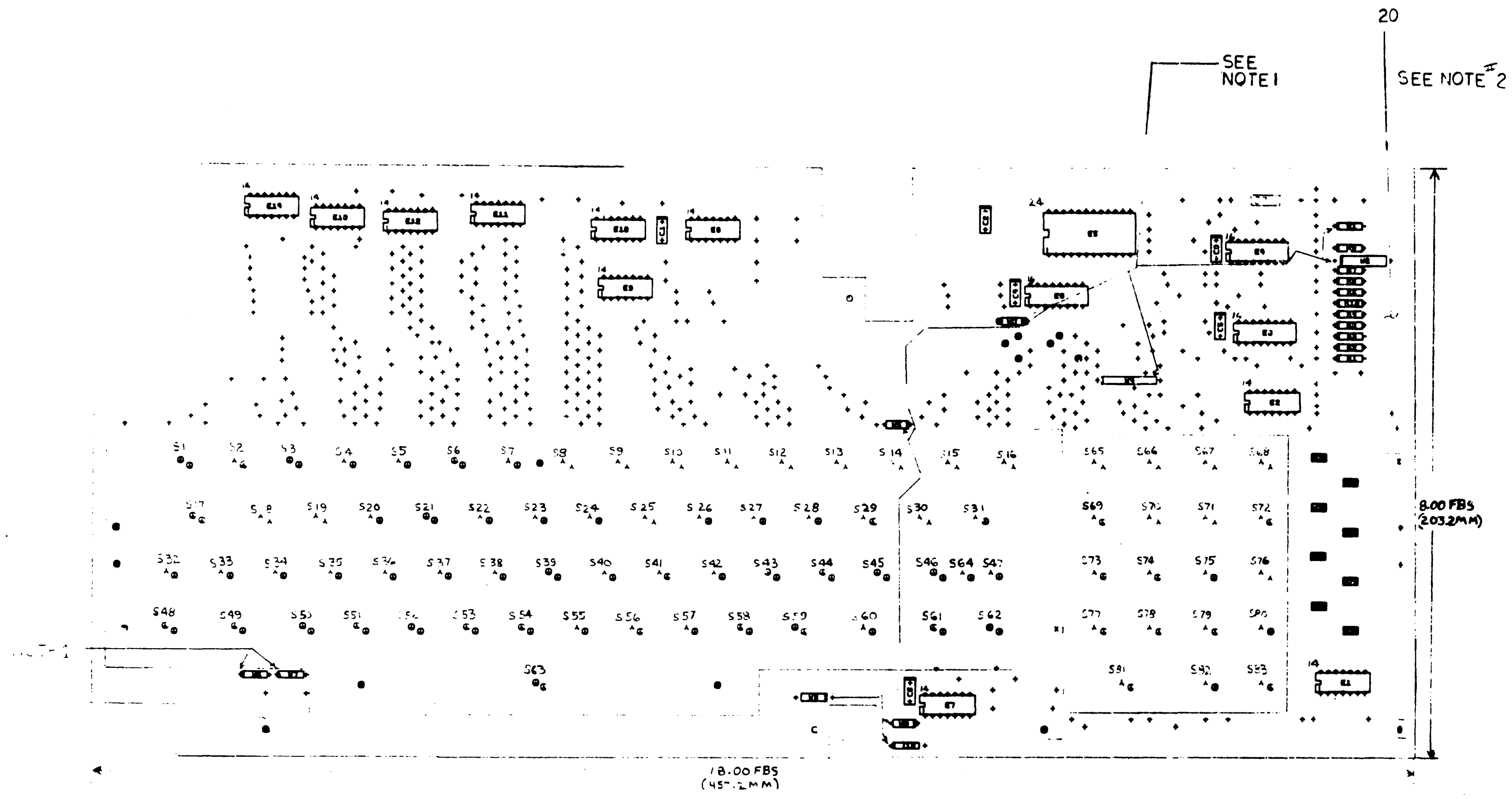
FIRST USED ON: VT50

TITLE: ASSEMBLY, CRT

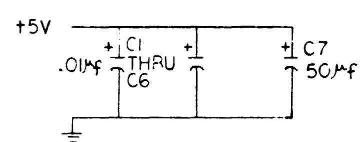
SIZE: D | CODE: A-D | NUMBER: 7010859-0-0 | REV: D

NOTES:

1. OPTIONAL JUMPERS: SEE SHEET 2 FOR CONFIGURATION TABLE.
2. SEE SHEET 3 OF 5 FOR WIRING TABLE.
3. SEE SHEETS 4 & 5 FOR VARIATION KEYCAP PLACEMENT.
4. NOTE THAT THE B.C.M. FOR ALL VARIATIONS OF THIS BOARD MAY REQUIRE UPDATING ON ANY ECO.



VARIATION EXPLANATION	
VARIATION	COMMENT
5411170 - 0	VT61
5411170 - 1	HEAT CYCLED, SYSTEM TESTED 5411170-0
5411170 - 2	BASIC VT50H
5411170 - 3	HEAT CYCLED, SYSTEM TESTED 5411170-2
5411170 - 4	VT52
5411170 - 5	HEAT CYCLED, SYSTEM TESTED 5411170-4
5411170 - 6	VT61T
5411170 - 7	HEAT CYCLED, SYSTEM TESTED 5411170-6
5411170 - 8	VT52-W
5411170 - 9	HEAT CYCLED, SYSTEM TESTED 5411170-8
5411170 - 10	VT62
5411170 - 11	HEAT CYCLED, SYSTEM TESTED 5411170-10
5411170 - 12	VT52 - N
5411170 - 13	HEAT CYCLED, SYSTEM TESTED 5411170-12



IC TYPE	GND	+5V
DEC IC 7442	8	16
DEC IC 74175	8	16
DEC IC 74150	12	24

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

IC PIN LOCATIONS

SEE OFF SHEET PARTS LIST

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

FIRST USED ON OPTION MODEL: VT61/VT50

ETCH BOARD REV. D

REV.	CHANGE NO.	CHK
M	5411170-PN010	J. DESUK, 21 MAR 78 / 6 FEB 78
L	5411170-PN009	E. BRUCKERT
K	5411170-00008	J. DESUK, 6-27-77

REVISIONS

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

SEMICONDUCTOR CONVERSION CHART

DRN. DATE 6-27-77
CHK'D. DATE 5 JUL 77
ENG. DATE 25-10-77
PROJ. ENG. DATE 25-10-77
PROD. DATE

NEXT HIGHER ASSY Ø-UA-VT5Ø-Ø-Ø

SCALE
SHEET 1 OF 5

digital

TITLE KEYBOARD VT61/VT5ØH

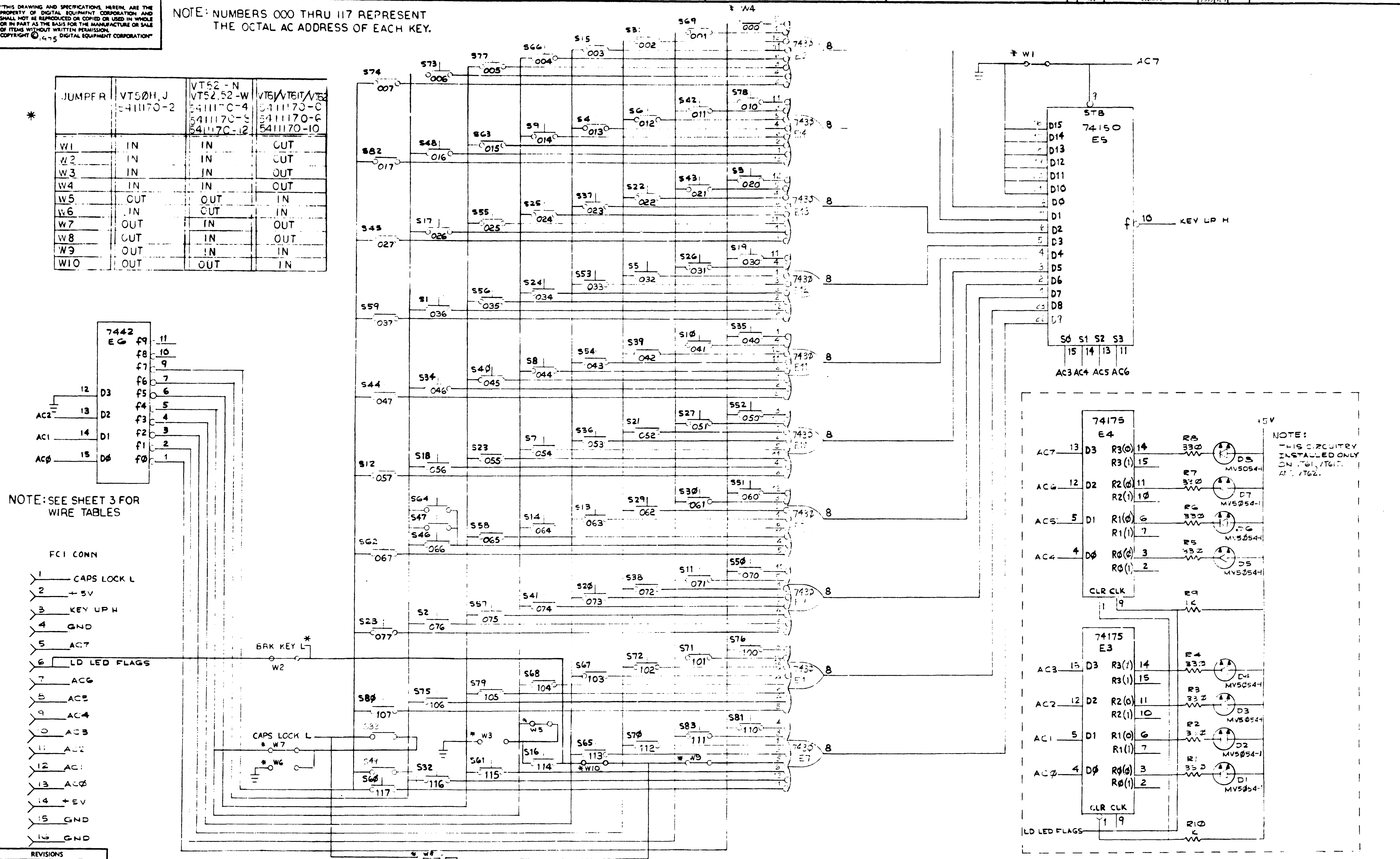
SIZE D CODE CS NUMBER 5411170-0-1 REV. M

DIST.

NOTE: NUMBERS 000 THRU 117 REPRESENT THE OCTAL AC ADDRESS OF EACH KEY.

*

JUMPER	VT50H, J 5411170-2	VT52-N VT52, 52-W 5411170-4 5411170-9 5411170-12	VT61/VT61T/VT62 5411170-0 5411170-6 5411170-10
W1	IN	IN	OUT
W2	IN	IN	OUT
W3	IN	IN	OUT
W4	IN	IN	OUT
W5	OUT	OUT	IN
W6	IN	OUT	IN
W7	OUT	IN	OUT
W8	OUT	IN	OUT
W9	OUT	IN	IN
W10	OUT	OUT	IN



NOTE: SEE SHEET 3 FOR WIRE TABLES

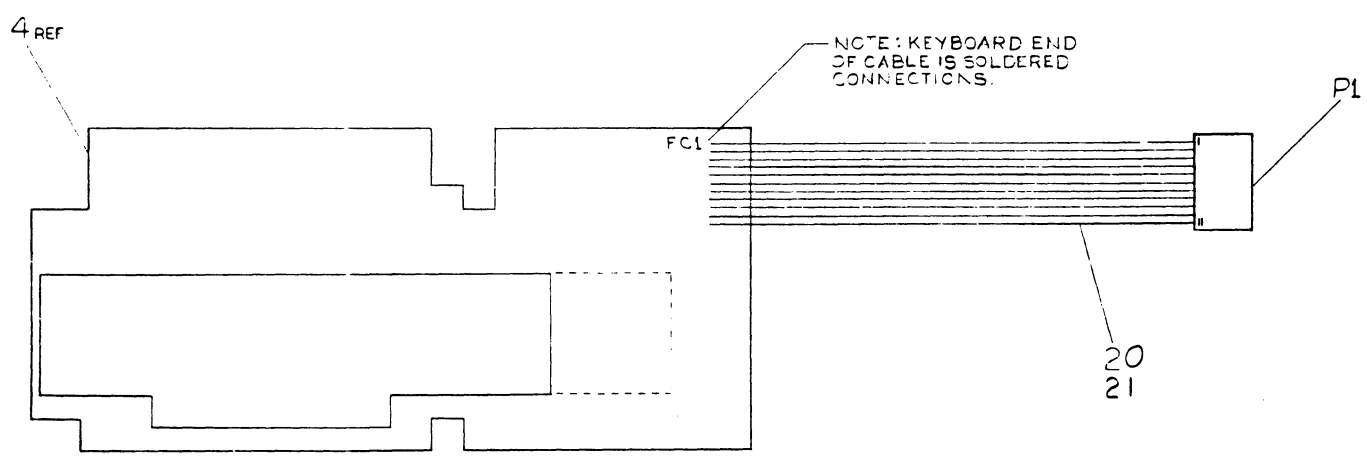
TITLE	SIZE	CODE	NUMBER	REV.
KEYBOARD VT61/VT50H	D	CS	5411170-0-1	
SCALE —	SHEET 2 OF 5	DIST.		

WIRE TABLE (5411170-2,4,8,12)

ITEM NO.	DESCRIPTION AWG	DESCRIPTION COLOR	FROM CONNECTION	TO CONNECTION	REMARKS
21	*22	BLK	P1-1	FC1-2	+5V
▲	▲	BRN	P1-2	FC1-3	KEY UP H
		RED	P1-3	FC1-4	GND
		ORN	P1-4	FC1-8	AC5
		YEL	P1-5	FC1-9	AC4
		GRN	P1-6	FC1-10	AC3
		BLU	P1-7	FC1-11	AC2
		VIO	P1-8	FC1-12	AC1
		GRY	P1-9	FC1-13	AC0
▼	▼	WHT	P1-10	FC1-6	BRK KEY
21	*22	BLU	P1-11	FC1-7	AC6

WIRE TABLE (5411170-0,6,10)

ITEM NO.	DESCRIPTION AWG	DESCRIPTION COLOR	FROM CONNECTION	TO CONNECTION	REMARKS
22	22	BLK	P1-1	FC1-1	CAPS LOGIC
▲	▲	BRN	P1-2	FC1-2	+5V
		RED	P1-3	FC1-3	KEYUP
		ORN	P1-4	FC1-4	GND
		YEL	P1-5	FC1-5	AC7
		GRN	P1-6	FC1-6	LO LED FLAGS
		BLU	P1-7	FC1-7	AC6
		VIO	P1-8	FC1-8	AC5
		GRY	P1-9	FC1-9	AC4
		WHT	P1-10	FC1-10	AC3
		WHT/BLK	P1-11	FC1-11	AC2
		WHT/BRN	P1-12	FC1-12	AC1
		WHT/RED	P1-13	FC1-13	AC0
		WHT/ORN	P1-14	FC1-14	+5V
▼	▼	WHT/YEL	P1-15	FC1-15	GND
22	22	WHT/GRN	P1-16	FC1-16	GND



INCH

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. | CHK'D | ENG. | PROJ. ENG. | PROD.

NEXT HIGHER ASSY.

SCALE —

SHEET 3 OF 5

FIRST USED ON VT50H / VT61

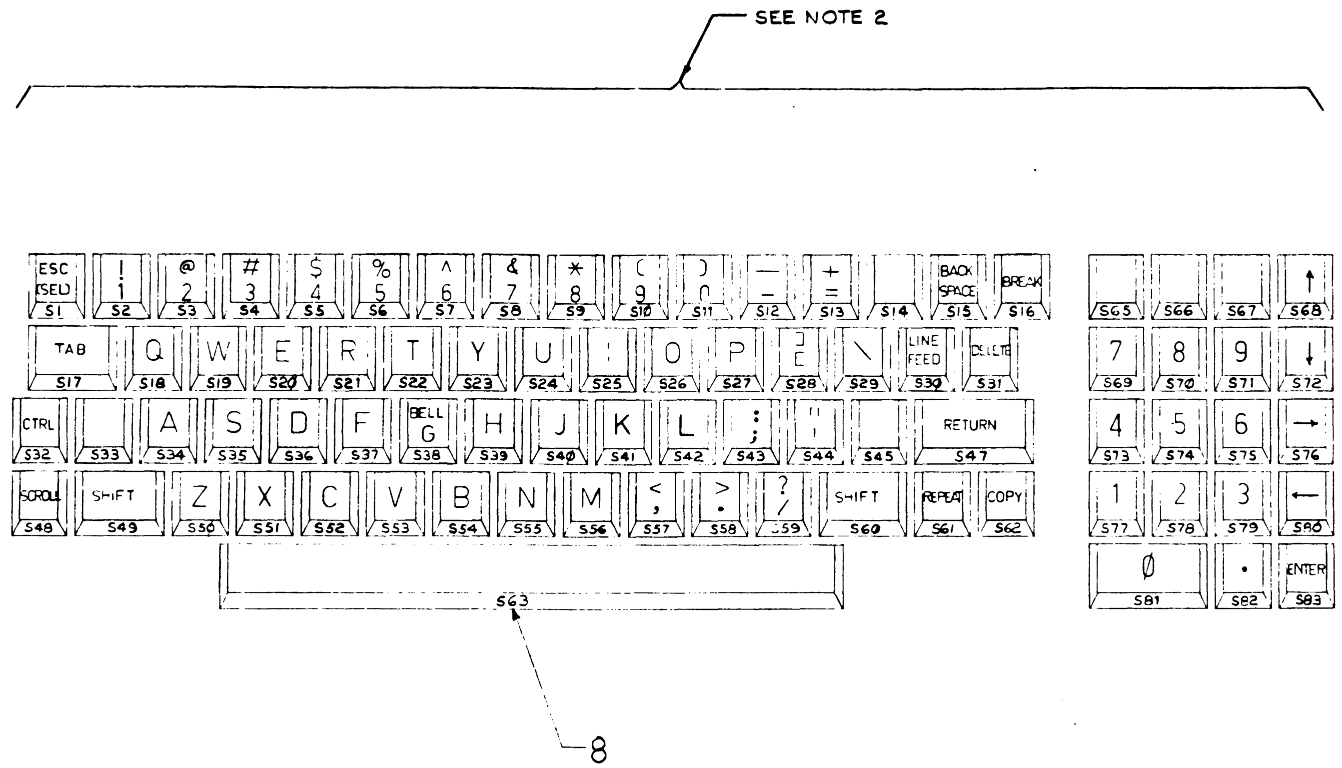
digital

TITLE KEYBOARD VT61/VT50H (CABLE CONN)

SIZE D | CODE CS | NUMBER 5411170-0-1 | REV.

DIST.

NOTES:
1. THE KEYCAP PLACEMENT ON THIS SHEET REPRESENTS THE VT50H, VT61 PLACEMENT. TO FIND KEYCAP LOCATIONS FOR OTHER VARIATIONS MATCH THE SWITCH NUMBERS (EXAMPLE S3) ON EACH KEYCAP ON THIS SHEET WITH THE CORRESPONDING SWITCH NUMBER FOR THE DESIRED VARIATION ON SHEET 5.
2. SEE PARTS LIST FOR ITEM NUMBERS FOR DESIRED VARIATIONS.



SEE VARIATIONS ON NEXT SHEET

DRN.	
CHK'D	
ENG.	
PROJ. ENG.	
PROD	
NEXT HIGHER ASSY.	
SCALE NONE	
SHEET 4 OF 5	

FIRST USED ON VT50H/VT61

digital

TITLE KEYBOARD VT61/VT50H (KEYCAP VARIATIONS)

SIZE	CODE	NUMBER	REV.
D	CS	5411170-0-1	M

DIST.

COLOR GUIDE
NUMBER : GRAY
1 : RED
2 : BLUE
3 : WHITE
4 : GOLD
5 : GRAY, LIGHT

NOTE: 1) LEGEND ON LOWER PORTION OF BOX ARE ON THE FRONT FACE OF THE KEY.
2) LEGEND ON SIDE IS ON SIDE OF KEY.

KEYCAP PLACEMENT

SWITCH NUMBER

VARIATION	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19	S20	S21
5411170-0 (VT62)	ESC SEL	! 1 F1	@ 2 F2	# 3 F3	$ 4 F4	% 5 F5	^ 6 F6	& 7 F7	* 8 F8	(9 F9	) 0 F10	— -	+ =	~ \	BACK SPACE	BREAK	TAB	Q Home	W End Tx	E CEmph	R Cl Jus
5411170-2 (VT52H)	ESC (SEL)	. 1	@ 2	# 3	$ 4	% 5	^ 6	& 7	* 8	(9	) 0	— -	+ =		BACK SPACE	BREAK	TAB	Q	W	E	R
5411170-4 (VT52)	ESC (SEL)	! 1	@ 2	# 3	$ 4	% 5	^ 6	& 7	* 8	(9	) 0	— -	+ =	~ \	BACK SPACE	BREAK	TAB	Q	W	E	R
5411170-6 (VT61)	ESC (SEL)	! 1 F1	@ 2 F2	# 3 F3	$ 4 F4	% 5 F5	^ 6 F6	& 7 F7	* 8 F8	(9 F9	) 0 F10	— -	+ =	~ \	BACK SPACE		TAB	Q Begin Text	W End Text	E Block Start	R
5411170-8 (VT52-W)	ESC (SEL)	! 1	@ 2	# 3	$ 4	% 5	^ 6	& 7	* 8	(9	) 0	— - PRINT HYPH	+ = ALBRV	HALT	[illegible]	BREAK	TAB ENTER	Q UPPER SHIFT	W	E	R RULER
5411170-10 (VT62)	SELECT DESELECT	! 1	@ 2	# 3	$ 4	% 5	^ 6	& 7	* 8	(9	) 0	— -	+ =	~ \	HOME ERASE [illegible] DISP	CLEAR	ERASE [illegible]	Q	W	E	R
5411170-12 (VT52-N)	ESC SEL	! 1	@ 2	# 3	$ 4	% 5	^ 6	& 7	* 8	(9	) 0	— -	+ =	~ \	BACK SPACE	BREAK	TAB	Q	W	E	R

VARIATION	S22	S23	S24	S25	S26	S27	S28	S29	S30	S31	S32	S33	S34	S35	S36	S37	S38	S39	S40	S41	S42
5411170-0 (VT62)	T Cmd	Y A Pr	U HI S	I Insert	O	P	[	| \ Canc	LINE FEED	DELETE	CTRL	CAPS LOCK	A Para	[illegible]	[illegible]	[illegible]	HELP Fetch	H PrtSc	J PrtLn	[illegible]	-
5411170-2 (VT52H)	T	Y	U	I	O	P	] [	\	LINE FEED	DELETE	CTRL		A		D	=	HELP	H	J	K	L
5411170-4 (VT52)	T	Y	U	I	O	P	] [	| \	LINE FEED	DELETE	CTRL	CAPS LOCK	A		[illegible]		HELP G	H	J	K	L
5411170-6 (VT61)	T Cmd	Y	U	I Insert	O	P	] [	\ Reset	LINE FEED	DELETE	CTRL	CAPS LOCK	A Para	S Delete	D [illegible]	= Insln	[illegible]	H	J	K	-
5411170-8 (VT52-W)	T [illegible]	Y	U	I	O	P PAGE MARKER	] [	\ DATE STMP	[illegible]	[illegible] SUB LINE	CTRL	CAPS LOCK	A [illegible]	[illegible]	([illegible] KEY	F FILE [illegible]	[illegible] FMT	H	J	K	L
5411170-10 (VT62)	T	Y	U	I	O	P	] [	| \	DELETE FIELD	ERASE CHAR	DELETE CHAR	CAPS LOCK	A	S	D	F	G	H	J	K	L
5411170-12 (VT52-N)	T	Y	U	I	O	P	] [	\	[illegible]	[illegible] CHAR DEL	CTRL	CAPS LOCK	A	S	D	F	HELP	—	[illegible]	[illegible]	-

SWITCH NUMBER (CONT.)

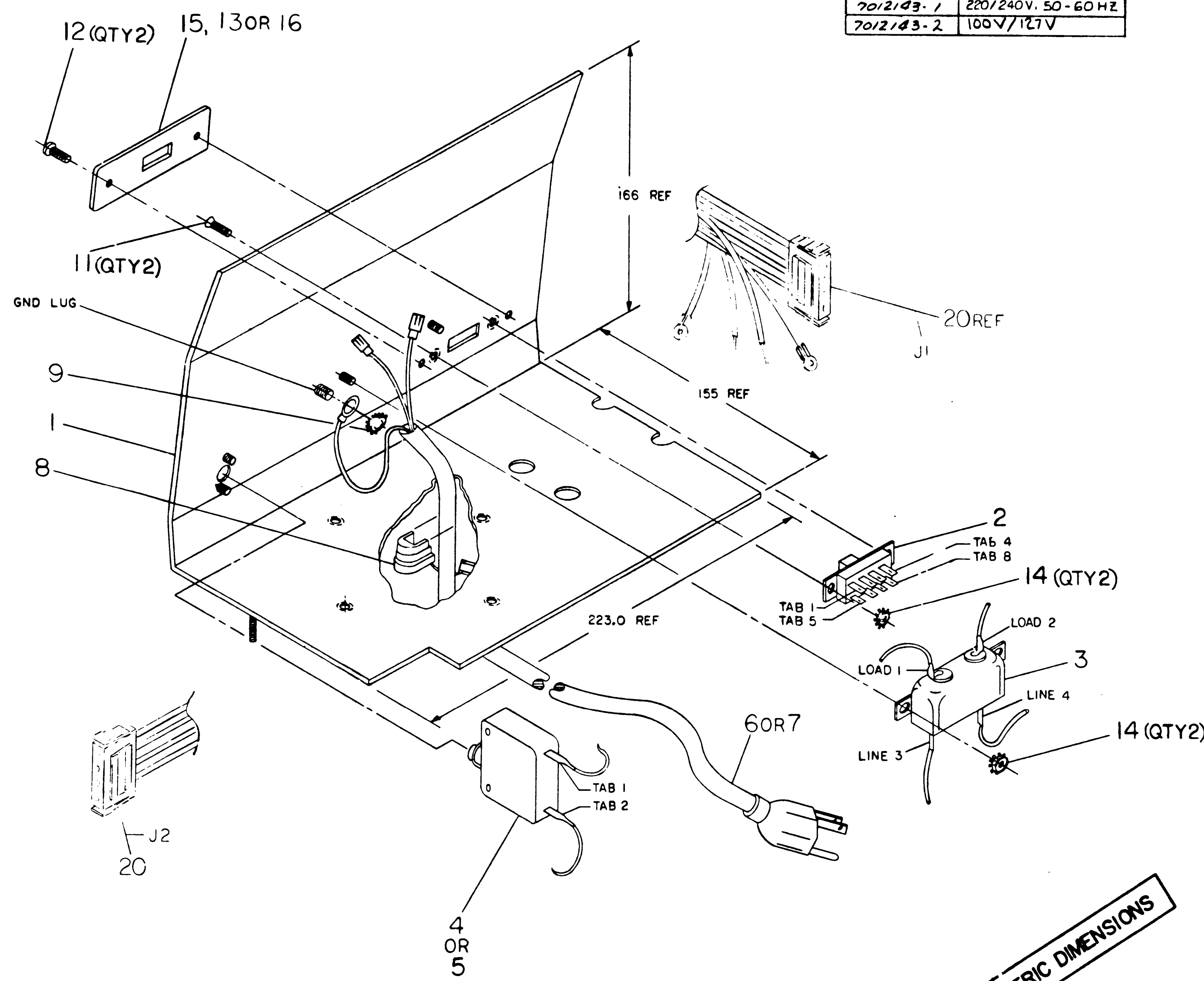
VARIATION	S43	S44	S45	S46	S47	S48	S49	S50	S51	S52	S53	S54	S55	S56	S57	S58	S59	S60	S61	S62
5411170-0	: ;	" '	} {		RETURN	SCROLL	SHIFT	Z erEOS	X erEOL	C Ruler	V Tx Jus	B XmLn	N Xm Dat	M Xm Msg	< ,	> .	? /	SHIFT	REPEAT	COPY
5411170-2	: ;	" '			RETURN	SCROLL	SHIFT	Z	X	C	V	B	N	M	< ,	> .	? /	SHIFT	REPEAT	COPY
5411170-4	: ;	" '	} {		RETURN	SCROLL	SHIFT	Z	X	C	V	B	N	M	< ,	> .	? /	SHIFT	REPEAT	COPY
5411170-6	: ;	" '	} {		RETURN		SHIFT	Z erEOS	X erEOL	C	V Word Wrap	B	N XmDat	M	< ,	> .	? /	SHIFT	REPEAT	COPY
5411170-8 (VT52-W)	: ;	" ' REPLC	} { [illegible]		RETURN [illegible]	SCROLL	SHIFT	Z	X	C CENTER	V VIEW	B ROT [illegible]	N NEW PAGE	M MENU	< , [illegible]	> . [illegible]	? / [illegible]	SHIFT	REPEAT	[illegible]
5411170-10 (VT62)	: ;	" '	} {		NEXT FIELD	INSERT MODE	SHIFT	Z	X	C	/	B	N	M	< ,	> .	? /	SHIFT	REPEAT	PF45
5411170-12 (VT52-N)	: ;		} {		RETURN	SCROLL	SHIFT	Z	Y	C	V	E	N	M	< ,	> .	? /	SHIFT	REPEAT	COPY

VARIATION	S63	S64	S65	S66	S67	S68	S69	S70	S71	S72	S73	S74	S75	S76	S77	S78	S79	S80	S81	S82	S83
5411170-0	SPACE BAR		FCN	BKFLD	FWFLD	↑	7 F1	8 F2	9 Home	↓	4 F3	5 F4	6 I/R	→	1 Tx Jus	2 Xm Mr	3 Cmd	←	Ø Delete Char	. CE mode	ENTER Xm Dat
5411170-2	SPACE BAR					↑	7	8	9	↓	4	5	6	→	1	2	3	←	Ø	.	ENTER
5411170-4	SPACE BAR					↑	7	8	9	↓	4	5	6	→	1	2	3	←	Ø	.	ENTER
5411170-6	SPACE BAR		BACK FIELD Done	WORD WRAP Move	BLOCK START Block End	MAKE ROOM	DELETE LINE	PREV PAGE First Page	XMIT FIELD Cr Tif Check	NEXT PAGE Last Page	DELETE WORD	BEGIN TEXT	↑ Top Line	END TEXT	DELETE CHAR	← Begin Line	↓ Bottom Line	→ End Line	EXECUTE Dir	CMD Reset	FCN
5411170-8 (VT52-W)	(SPACE BAR)			PAGE FFLD	SWAP FFLD	DEL CHAR ↑	SENT 7	TAB 8	UNDER LINE 9	LEFT WORD ↓	WORD 4	PARA 5	FOLD 6	CUT →	BACK UP	LINE	[illegible]	PASTE ←	ADVANCE 0	SEL .	<> ENTER
5411170-10 (VT62)	SPACE BAR		←	BACK FIELD	FWD FIELD	→	7 ABORT	8 PF5	9 PF1	STOP RESEND PF44	4 PF4	5 PF5	6 PF6	CLOSE PF44	/ PF1	2 PF2	3 PF3	AFF RW PF42	O PFO	. PF10	ENTER PF41
5411170-12 (VT52-N)	SPACE BAR			BACK FIELD	ADV FIELD	HOME FLAG FIELD	7 BT	8 BT	9 BT	EOS EOL CLEAR	4 BT	5 BT	6 BT	[illegible]	1 BT	2 BT	3 BT	[illegible]	0 BACK [illegible]	.	ENTER [illegible] FORMAT

REVISIONS		
CHK	CHANGE NO	REV

TITLE: KEYBOARD, VT61/VT62H (KEYCAP PLACEMENT)
SIZE: D CODE: CS NUMBER: 5411170-0-1 REV: M
SCALE SHEET OF
DEC FORM NO. DRD 135

LEGEND	
NUMBER	VARIATION
7012143-0	115V, 60 HZ
7012143-1	220/240V, 50-60 HZ
7012143-2	100V/127V



METRIC DIMENSIONS

WIRE TABLE

FROM					TO	
ITEM	AWG	COLOR	CONN	WITH	CONN	WITH
19	18	BLK	S1-3	SOLD. 17	CB-2	10
19	18	BLK	CB-1	10	FL LOAD1	10
18	18	WHT	S1-7	SOLD. 17	FL LOAD2	10
6 OR 7	18	WHT OR BLU	—	—	FL LINE3	—
6 OR 7	18	BLK OR BRN	—	—	FL LINE4	—
6 OR 7	18	GRN OR GRN/YEL	—	—	GNDLUG	9
20	18	BLK	—	—	S1-4	SOLD 17
20	18	WHT	—	—	S1-8	SOLD 17
20	18	GRN	—	—	GNDLUG	9

7012143-2	7012143-1	7012143-0	DESCRIPTION	DWG/PART NO.	ITEM NO.
—	—	1	CABLE PRIMARY POWER	D-IA 70118[illegible]	20
A/R	A/R	A/R	WIRE #18AWG [illegible]	[illegible]-00	19
A/R	A/R	A/R	WIRE #18AWG WHT	9107350-99	18
A/R	A/R	A/R	TUBING, SHRINKABLE WHT	9107254-09	17
	—	—	PLATE VT55 100V 127V	C-MD-7413917-2	16
—	—	1	PLATE, VT55 [illegible]V	C-MD-741[illegible]-1	15
4	4	4	NUT, 4-40, KEP	9006557	14
—	1	—	PLATE VT55 220-240V	C-MD-7413917-3	13
2	2	2	SCREW, 8-32X.250 BUTTON HD	9009744	12
2	2	2	SCREW, 4-40X.312 FLATHEAD	9006010-02	11
4	4	4	SOLDERLESS CONN.	9007970	10
1	1	1	NUT, 10-32, KEP	9006565	9
1	1	1	RELIEF, CABLE STRAIN	9008492-02	8
—	1	—	CORD POWER, 220/240	C-IA-7011019-1	7
1	—	1	CORD POWER, 115V	C-IA-7011019-0	6
—	1	—	BREAKER CIRCUIT	1210242-02	5
1	—	1	BREAKER CIRCUIT	1210242-03	4
1	1	1	FILTER	1212377-00	3
1	1	1	SWITCH	1211997	2
1	1	1	PLATE, MTG TRANSFORMER	D-IA-7412850-0-0	1
QUANTITY & VARIATION					

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FINISH: —

DRN. JF [illegible] 11-14-75
CHK'D [illegible] 11-25-75
ENG. [illegible] 11-25-75
PROD. ENG. [illegible] 11-25-75
PROD. R. Powers 11-25-75

NEXT HIGHER ASSY: J-UA-VT55-0-0

SCALE: NONE

SHEET 1 OF 1

FIRST USED ON: VT55

TITLE: SIDE PLATE ASSY

SIZE: 1 | CODE: AD | NUMBER: 7012143-0-0 | REV: B

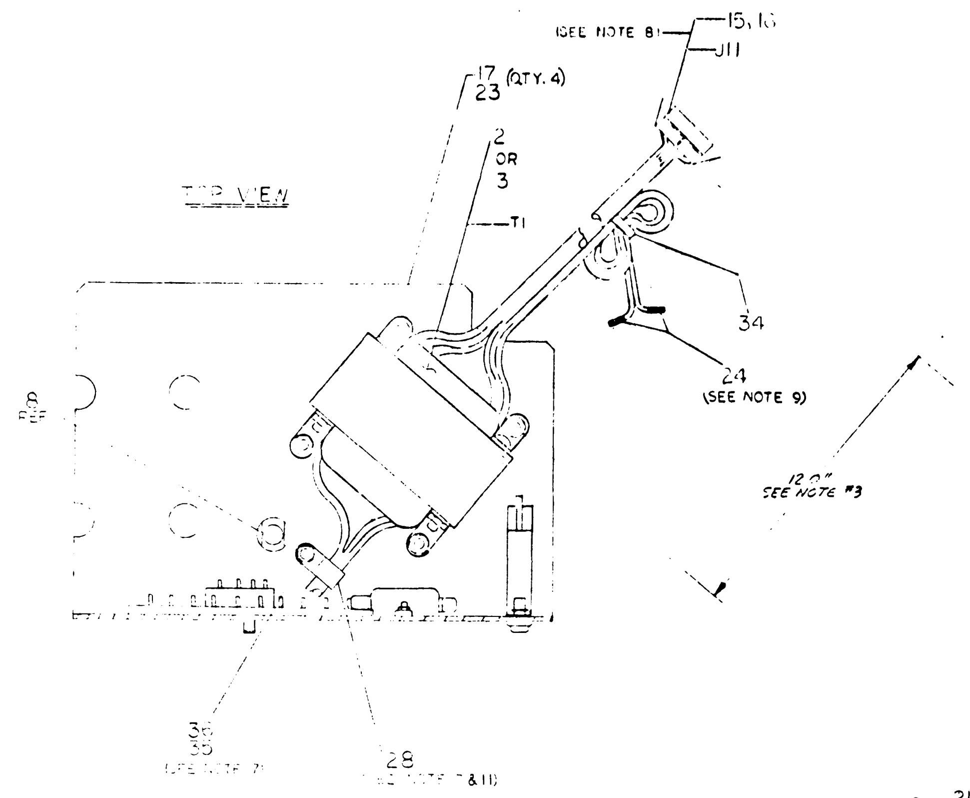
REVISIONS

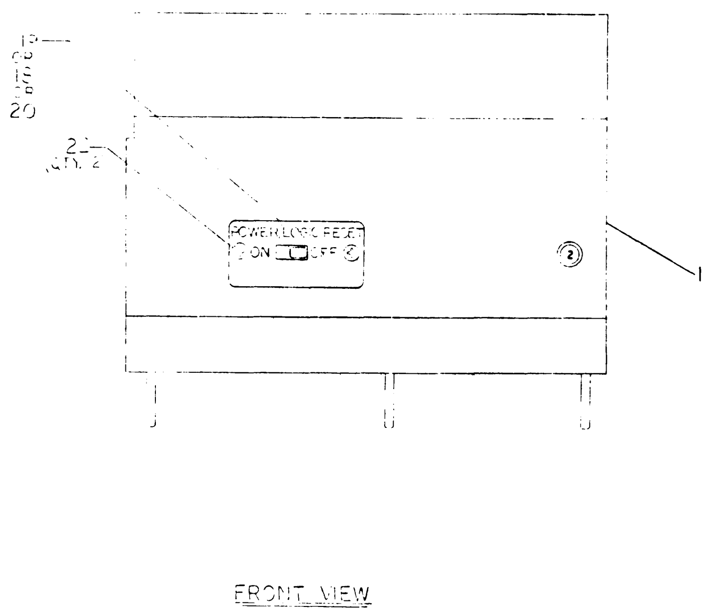
REV.	CHANGE NO.	CHK	
A	7012143 00001	E KING	[illegible] 11-20-76
B	7012143 00002	E KING	[illegible] 24-3-76

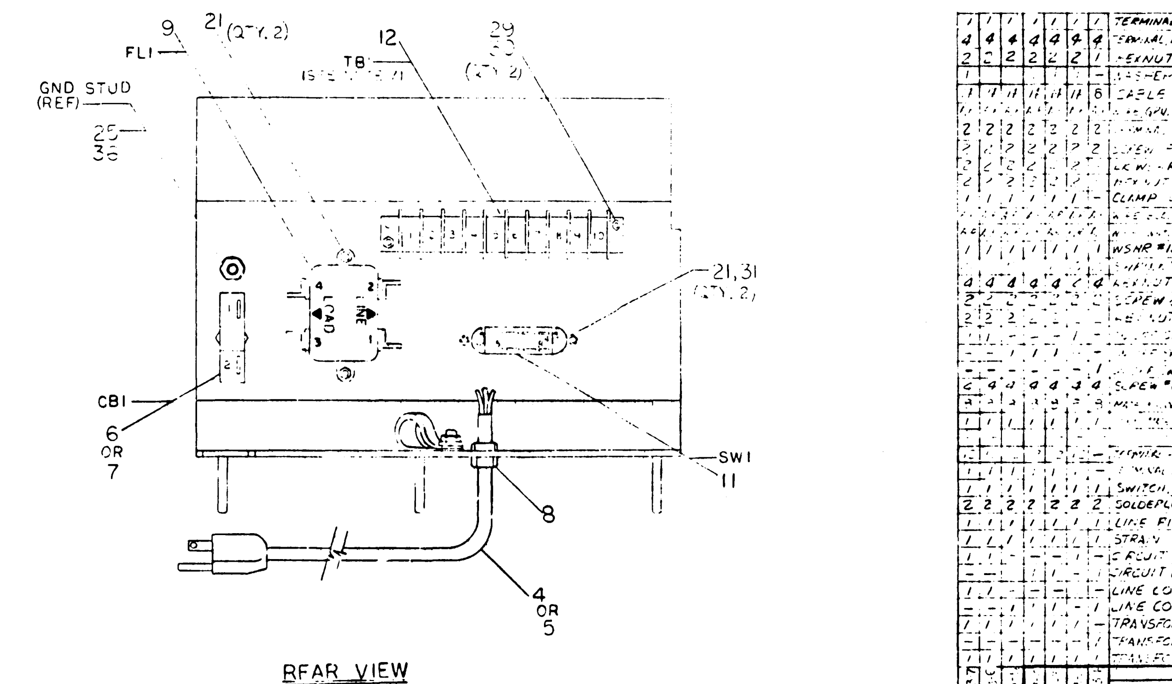
1 AD 7012143-0-0 B

NOTES:

1. SEE SHEET #2 FOR WIRING DATA.
2. -4, -5, -6, AND -7 VARIATIONS MAY BE FIELD IMPLEMENTED.
3. CUT LEADS TO 12.0 ± 1", AFTER TWISTING.
4. WIRE LENGTH TO BE 2[illegible].0" ± 1".
5. ITEM #31 CABLE TIES, USED BETWEEN J11 & T1 [illegible] GRN [illegible] WIRE [illegible]. BETWEEN T1 & SW1 AS REQ.
6. ALL PIN NO'S. SHOWN ARE FOR REF ONLY.
7. ITEM NOT USED ON 7010773-1 ([illegible] ASSY).
8. TWIST VIOLET AND VIOLET-BLACK WIRES TOGETHER. TWIST BLUE AND BLUE-BLACK WIRES TOGETHER BEFORE APPLYING CABLE TIES AND CONNECTING TO J11.
9. TERMINATE ENDS OF RED AND RED-YELLOW WIRES [illegible] PIECES OF SHRINK TUBING, ITEM #24, TWIST TOGETHER AND SECURE WITH A CABLE TIE, ITEM #31.
10. THE 3, 4, 5 VARIATION WILL BE IMPLEMENTED FROM THE -2 VARIATION. REPLACE ITEM #5 WITH ITEM #4 AND REPLACE ITEM 20 WITH ITEM #19.
11. ALL PRIMARY WIRES FROM T1 ROUTE THROUGH ITEM 28 ON VARIATIONS -2 THRU -7.
12. BRADY MARKERS MUST BE ADJUSTED ON TRANS WIRES AFTER TRIMMING FOR ALL ASSY'S EXCEPT 7010773-1 ([illegible] ASSY).







7010773-7	[illegible]	7010773-[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	DESCRIPTION	DOCUMENT NO.	ITEM NO
1	1	1	1	1	1	1	TERMINAL, RING TONGUE INS.	9007930-01	38
4	4	4	4	4	4	4	TERMINAL, FEM SIDE FEED	9005[illegible]-00	37
2	2	2	2	2	2	1	HEXNUT #10-32 (KEPS)	9006565	36
1						–	WASHER, FLAT [illegible]	[illegible]	[illegible]
11	11	11	11	11	11	6	CABLE TIES [illegible]	[illegible]007031	34
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] GRN. STRND. [illegible] AWG	[illegible]	[illegible]
2	2	2	2	2	2	2	[illegible]	[illegible]	[illegible]
2	2	2	2	2	2	2	SCREW [illegible] #4-40 x [illegible]	9[illegible]6011-2	31
2	2	2	2	[illegible]	2		LK WASHER #[illegible]	[illegible]06388	30
2	[illegible]	2	[illegible]	[illegible]	2		HEXNUT #[illegible]-[illegible]	9006556	[illegible]
1	1	1	1	1	1	–	CLAMP CABLE [illegible]	9007083	29
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] AWG.	[illegible]	27
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] AWG.	[illegible]	[illegible]
1	1	1	1	1	1	1	WSHR #10 EXT TOOTH	[illegible]	25
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	SHRINK TUBING [illegible] DIA x [illegible]	9[illegible]-[illegible]4-09	24
4	4	4	4	4	4	4	HEXNUT #8-32 (KEPS)	9006568	[illegible]
2	2	2	2	2	2	2	SCREW 8-3[illegible] x .25 LG BLK	[illegible]	22
2	2	2	[illegible]	[illegible]		–	HEXNUT #4-40 (KEPS)	9006557	21
[illegible]	1	–	–	–	1	–	[illegible] PLATE [illegible]-240V	[illegible]-3	20
–	–	1	1	1	–	–	[illegible] PLATE [illegible]	[illegible]-2	19
–	–	–	–	–	–	1	[illegible] PLATE 115V	[illegible]-1	18
4	4	4	4	4	4	4	SCREW #8-32 x .50 LG	90[illegible]39-2	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]	1209379-01	6
1	1	1	1	1	1	1	[illegible]	1209350-09	15
									4
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	–	TERMINAL [illegible] INSUL.	9007929-01	13
1	1	1	[illegible]	1	[illegible]	–	TERMINAL BLOCK, [illegible] TERMINAL	90069.3	12
1	1	1	1	1	1	1	SWITCH, [illegible] DPTT	1211997	11
2	2	2	2	2	2	2	SOLDERLESS CONN.	9007970	10
1	1	1	1	1	1	1	LINE FILTER	1212003	9
1	1	1	1	1	1	1	STRAIN RELIEF	9008492-00	8
1	1	–	–	–	1	–	CIRCUIT BRKR 1AMP	1210242-01	7
–	–	1	1	–	–	1	CIRCUIT BRKR 2AMP	1210242	6
1	1	–	–	–	–	–	LINE CORD (240V)	1700043	5
–	–	1	1	1	–	1	LINE CORD (115V)	1700015-09	4
1	1	1	1	1	1	–	TRANSFORMER 240V/50HZ	[illegible]	3
–	–	–	–	–	–	1	TRANSFORMER 115V/60HZ	[illegible]	2
1	1	1	1	1	1	1	TRANSFORMER MTG. PLATE	E-IA [illegible]-0-0	[illegible]

QUANTITY & VARIATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

FIRST USED ON: [illegible]

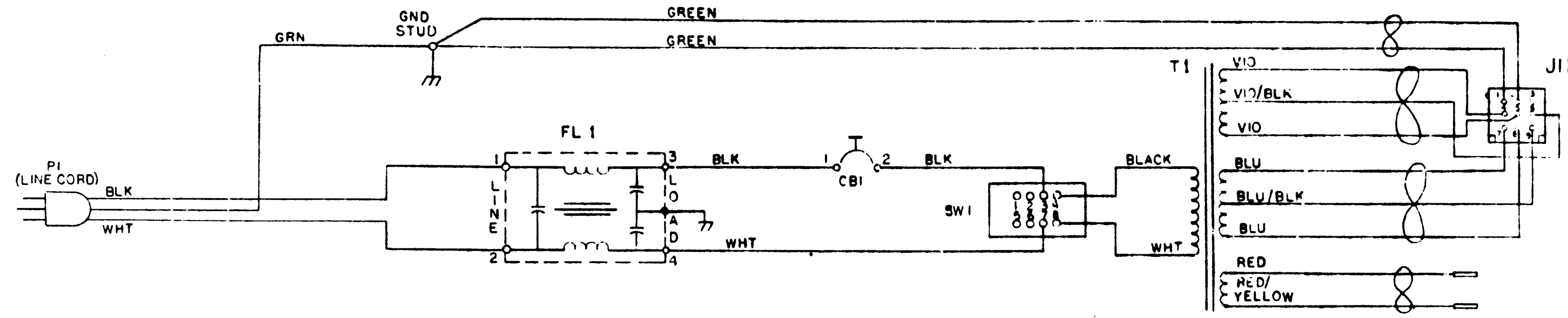
TITLE: TRANSFORMER MTG. PLATE ASSY.

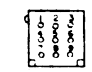
SIZE: E | CODE: AD | NUMBER: 7010773-0-0 | REV: [illegible]

SCALE: 1/1

WIRING DIAGRAM 7010773-1 ONLY

115V/60HZ



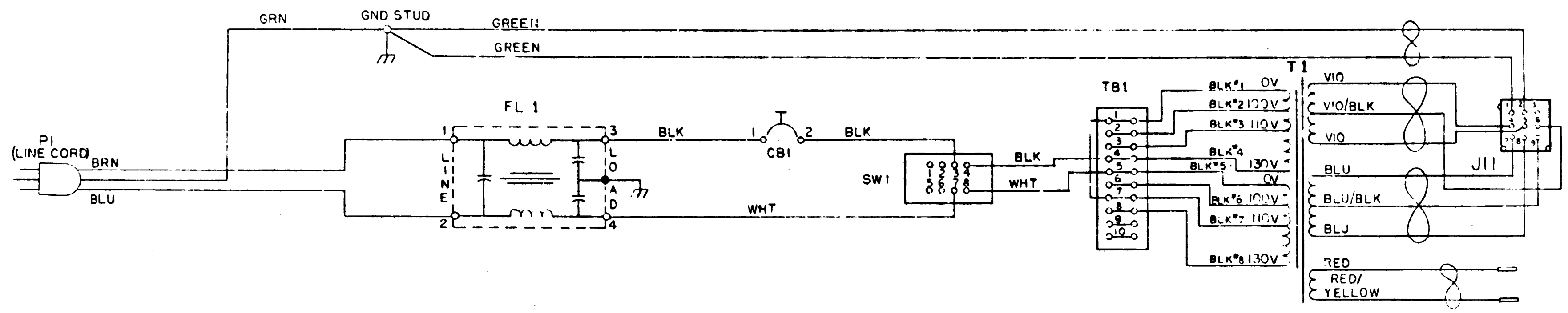


J11 FRONT VIEW

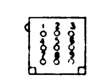
WIRE TABLE — USE WITH 7010773-1 ONLY							
ITEM	FROM		WITH ITEM	TO		WITH ITEM	REMARKS
	REF DES	COLOR		REF DES	ITEM		
4	P1	GRN	—	GNDSTUD	—	38	
4	P1	BLK	—	FL1-1	9	10	
4	P1	WHT	—	FL1-2	9	10	
33	GNDSTUD	[illegible]	32	J11-1	15	15	SEE NOTE 4
27	FL1-3	BLK	37,24	CB1-1	6	[illegible]	
26	FL1-4	WHT	37,24	SW1-7	11	[illegible]	
27	CB1-2	BLK	[illegible]	SW1-3	11	[illegible]	
2	T1	BLK	—	SW1-4	11	[illegible]	
2	T1	WHT	—	SW1-8	11	[illegible]	
2	T1	BLU	—	J11-7	15	16	SEE NOTE [illegible]
		BLU/BLK	—	J11-3			
		BLU	—	J11-8			
		VIO	—	J11-5			
		VIO/BLK	—	J11-6			
		VIO	—	J11-1	15	6	SEE NOTE [illegible]
		RED	—		—	[illegible]	SEE NOTE 9
2	T1	RED/YEL	—			[illegible]	SEE NOTE 9
33	GNDSTUD	GRN	32	J11-2	15	6	SEE NOTE 4

WIRING DIAGRAM 7010773-2 ONLY

240V/50HZ
60 HZ

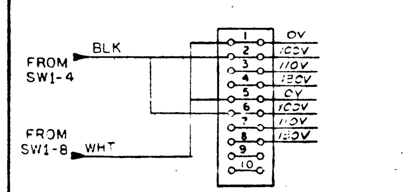


WIRE TABLE-USE WITH 7010773-2 ONLY							
ITEM	FROM		WITH ITEM	TO		WITH ITEM	REMARKS
	REF DES	COLOR		REF DES	ITEM		
5	P1	GRN/YEL	—	GNDSTUD	—	38	
5	P1	BRN	—	FL1-1	9	10	
5	P1	BLU	—	FL1-2	9	10	
33	GNDSTUD	GRN	32	J11-1	15	16	SEE NOTE 4
27	FL1-3	BLK	37,24	CB1-1	7	[illegible]	
26	FL1-4	WHT	37,24	SW1-7	11	SOLD.24	
27	CB1-2	BLK	37,24	SW1-3	11	SOLD.24	
27	SW1-4	BLK	SOLD.24	TB1-4	12	13	
33	GNDSTUD	GRN	32	J11-2	15	16	SEE NOTE 4
27	TB1-1	BLK	13	TB1-7	12	13	
26	SW1-8	WHT	SOLD.24	TB1-5	12	13	
3	T1	BLK#1	—	TB1-1	12	13	
		#2	—	TB1-2			
		#3	—	TB1-3			
		#4	—	TB1-4			
		#5	—	TB1-5			
		#6	—	TB1-6			
		#7	—	TB1-7			
		BLK#8	—	TB1-8	12	13	
		BLU	—	J11-7	15	16	SEE NOTE 3,8
		BLU/BLK	—	J11-3			
		BLU	—	J11-8			
		VIO	—	J11-5			
		VIO/BLK	—	J11-6			
		VIO	—	J11-4	15	16	SEE NOTE 3,8
		RED	—	—	—	24	SEE NOTE 9
3	T1	RED/YEL	—	—	—	24	SEE NOTE 9



J11 FRONT VIEW

WIRING DIAGRAM 7010773-3
SAME AS -2 EXCEPT TB1 AS SHOWN

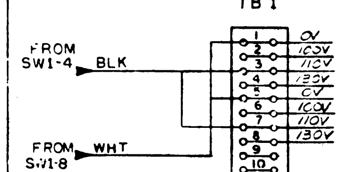


JUMPER	FROM	TO
BLACK	TB1-2	TB1-6
WHITE	TB1-5	TB1-1

100V/50HZ
60HZ

SEE NOTE 10

WIRING DIAGRAM 7010773-4
SAME AS -2 EXCEPT TB1 AS SHOWN

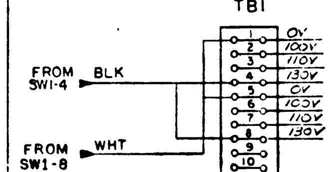


JUMPER	FROM	TO
BLACK	TB1-3	TB1-7
WHITE	TB1-5	TB1-1

110V/50HZ
60HZ

SEE NOTES 2,10

WIRING DIAGRAM 7010773-5
SAME AS -2 EXCEPT TB1 AS SHOWN

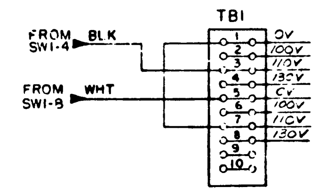


JUMPER	FROM	TO
BLACK	TB1-4	TB1-8
WHITE	TB1-5	TB1-1

130V/50HZ
60HZ

SEE NOTES 2,10

WIRING DIAGRAM 7010773-6
SAME AS -2 EXCEPT TB1 AS SHOWN

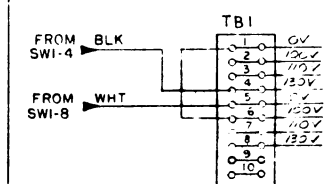


JUMPER	FROM	TO
BLACK	TB1-7	TB1-1

220V/50HZ
60HZ

SEE NOTE 2

WIRING DIAGRAM 7010773-7
SAME AS -2 EXCEPT TB1 AS SHOWN



JUMPER	FROM	TO
BLACK	TB1-1	TB1-6

230V/50HZ
60HZ

SEE NOTE 2

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE TRANSFORMER MTG. PLATE ASSY.

SIZE E | CODE AD | NUMBER 7010773-0-C | REV. A

SCALE NONE | SHEET 2 OF 2

WIRE TABLE

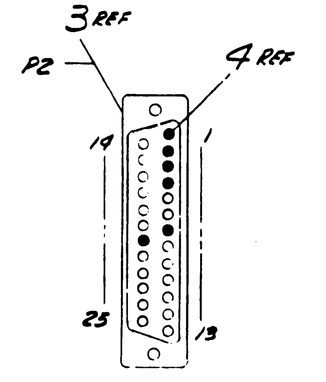
ITEM NO	AWG	COLOR	FROM CONNECTION	FROM WITH	TO CONNECTION	TO WITH
1	24	GRN	P2-H1	SOLDER	P1-1	4/CRIMP
		BLU	P2-H2		P1-2	
		RED	P2-H3		P1-3	
		WHT	P2-H4		P1-4	
		BLK	P2-H5		P1-7	
1	24	ORN	P2-H6	SOLDER	P1-20	4/CRIMP

LEGEND

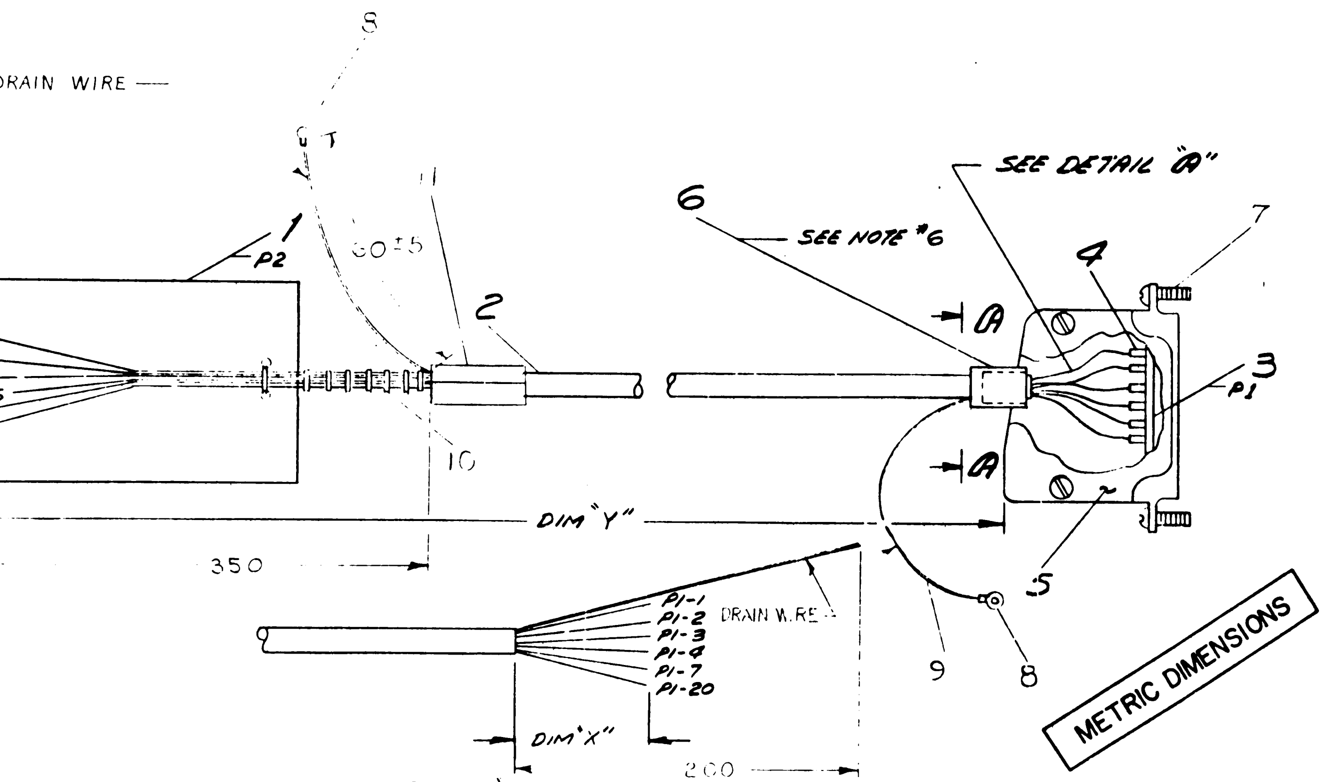
NUMBER	VARIATION DIM "X"	VARIATION DIM "Y"
BN52A-7F	25MM ± 10MM	7600MM ± 50MM

NOTES:

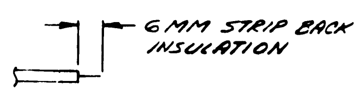
1. ALTERNATE PARTS FOR ITEMS 3, 4 AND 5 ARE 1205885 HOUSING 1203886 FOR THE CONNECTOR.
2. ALTERNATE CABLE NO. IS 9101578
3. ALL WIRES ARE SOLDERED ON SIDE 2 OF ITEM #1
4. CRIMPING TOOL IS MS 3198 1 OR AMPHENOL NO. 357-100 WITH NO. 357-300-2 CONTACT LOCATOR.
5. BN52A-7F IS A 25 FOOT CABLE ASSY.
6. USE 2 LENGTHS OF 9107685-09 (ITEM #6) TUBING OVER END OF CABLE WHEN USING ALTERNATE CONNECTOR. 25.4 MM AND 31.75MM LONG.
7. ALTERNATE METHOD OF TERMINATING SHIELD IS TO REPLACE RING TERMINAL 1214628 WITH RING TERMINAL 9007928 AND USE SHIELD ITSELF IN PLACE OF DRAIN WIRE. TUBING 9[illegible] IS NOT USED.



VIEW A-A
WITH HOOD REMOVED
SCALE: NONE
(REAR VIEW)



DETAIL "A"
SCALE: NONE



DETAIL - B
TYP ALL WIRE ENDS

METRIC DIMENSIONS

QTY	DESCRIPTION	DWG/PART NO.	ITEM NO.
1	SLEEVE, CABLE	3-MD-7419728-0-0	11
8	TIE WRAP	9007031	10
A/R	SLEEVE TWT	9107256-00	9
2	RING, TONGUE, TERMINAL	1214628-00	8
2	SCREW AND RETAINER	1210493-51	7
A/R	SHRINKABLE TUBING	9107685-09	6
1	HOOD STRAIN RELIEF	1210493-50	5
6	MALE PIN	1210493-[illegible]	4
1	SHELL AND INSERT	1210493-51	3
A/R	CABLE 6 CONDUCTOR	[illegible]733 0-0	2
1	EIA CARD	5411948-1-0	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS

ANGLES ±0° 30'

SURFACE QUALITY IN MICROINCHES

CLASS OF ACCURACY (CHECK ONE)	OVER 1 TO 5	OVER 5 TO 10	OVER 10 TO 100	OVER 100 TO 300	OVER 300 TO 1000	OVER 1000 TO 2000
MEDIUM	±0.1	±0.2	±0.3	±0.4	±0.8	±1.0
PREFERRED	±0.03	±0.4	±0.6	±1.0	±1.6	±2.5

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FINISH

DRN / CHK'D / ENG / PROJ ENG / PROD

NEXT HIGHER ASSY: Ø-UA-VT52-Ø-Ø

SCALE: NONE

SHEET 1 OF 1

FIRST USED ON: VT52

digital

TITLE: VT52 EIA CARD AND CABLE ASSEMBLY

SIZE	CODE	NUMBER	REV.
1	IA	BN52A-Ø-Ø	H

DIST

REVISIONS

DEC FORM NO. DA1 150

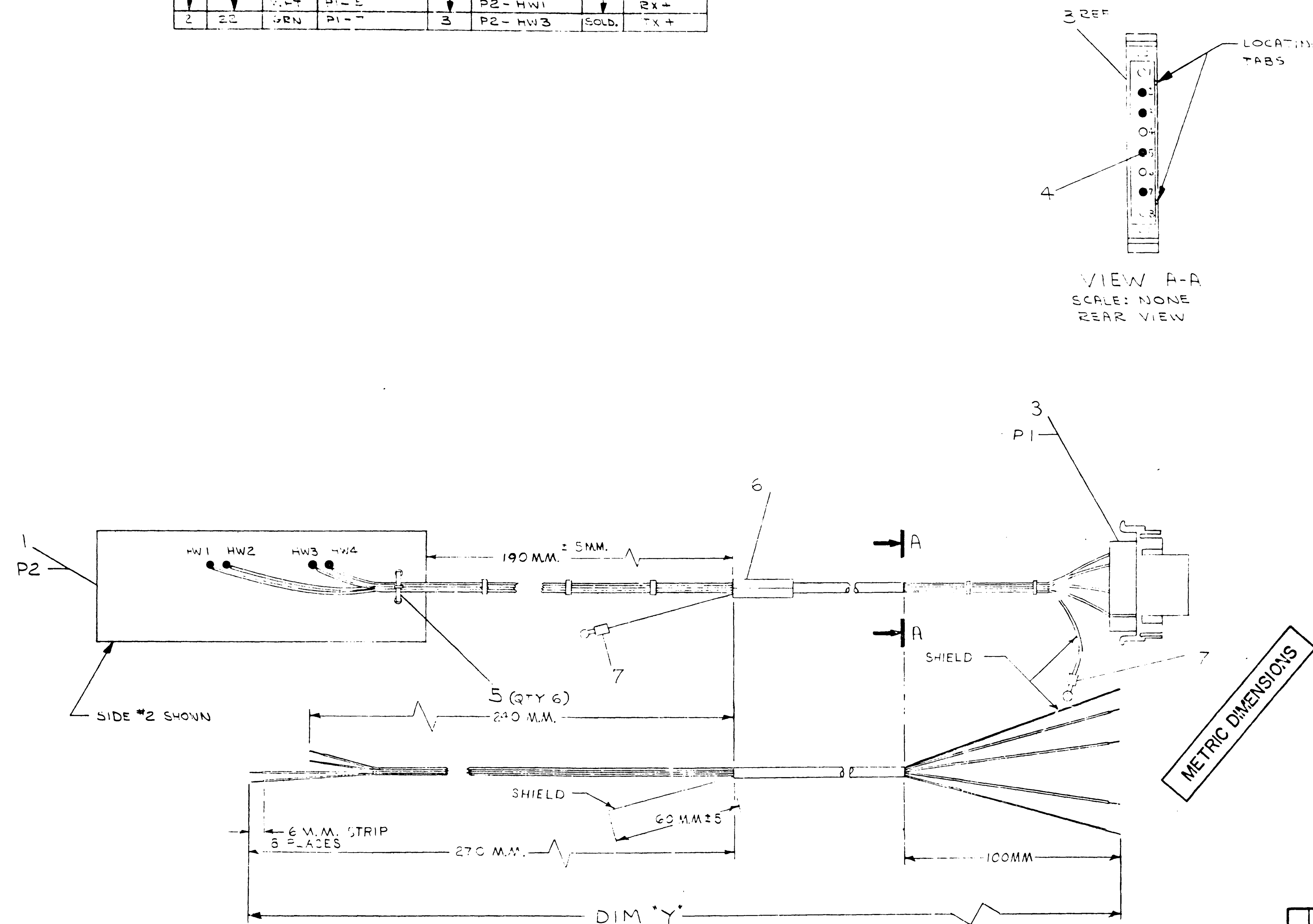
WIRE TABLE

ITEM NO.	DESCRIPTION AWG	DESCRIPTION COLOR	FROM CONNECTION	FROM WITH	TO CONNECTION	TO WITH	SIGNAL NAME
2	22	BLK	P1-2	3	P2-HW2	SOLD.	RX-
↕	↕	RED	P1-3	↕	P2-HW4	↕	TX-
↕	↕	WHT	P1-5	↕	P2-HW1	↕	RX+
2	22	GRN	P1-7	3	P2-HW3	SOLD.	TX+

LEGEND

NUMBER	DIM "Y" (WIRE CUT)(REF)
[illegible]	[illegible]
[illegible]	[illegible]

NOTE



BN52B-7F	BN52B-04	DESCRIPTION	DWG. PART NO.	ITEM NO.
2	2	TERMINAL, RING TONGUE	[illegible]007928	7
1	1	SLEEVE, CABLE	3-[illegible]	6
6	6	TIE WRAP	9007031	5
4	4	TERMINAL, PIN CONTACT	1209373-03	4
1	1	CONN. PANEL MOUNT, 8 PIN	[illegible]09340-01	3
A/R	A/R	CABLE, 4 COND. #22 RNC-STD	[illegible]	2
1	1	20MA ADAPTER CARD	D-CS-E4[illegible]-0-[illegible]	[illegible]

QUANTITY & VARIATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	OVER 1 TO 5	OVER 5 TO 30	OVER 30 TO 100	OVER 100 TO 300	OVER 300 TO 1000	OVER 1000 TO 2000
SURFACE QUALITY IN MICROINCHES	MEDIUM	±0.1	±0.2	±0.3	±0.4	±0.5	±1.0
	PREFERRED	±0.3	±0.4	±0.6	±1.0	±1.6	±2.5

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FINISH

DRN. [illegible]	[illegible]	FIRST USED ON [illegible]
CHK'D [illegible]	7-3-[illegible]	
ENG. [illegible]	[illegible]	TITLE: 20 MA. ADAPTER ASSY
PROJ ENG. [illegible]	[illegible]	
PROD. [illegible]	[illegible]	
NEXT HIGHER ASSY.		
D-UA-V152-0-0		SIZE 1 · CODE IA · NUMBER BN52B-0-2 · REV [illegible]
SCALE 1/1		
SHEET OF		DIST.

digital

REVISIONS

REV	CHANGE NO.	
A	[illegible] 00001	[illegible]
B	[illegible]-PN007	[illegible]
C	[illegible]	[illegible]
D	V152 [illegible]	J. BESUK [illegible]

WIRE TABLE

ITEM NO	DESCRIPTION AWG	COLOR	FROM CONNECTION	FROM WITH	TO CONNECTION	TO WITH	SIGNAL NAME
2	22	BLK	P1-Y	*	P2-HW2	SOL	RX-
		RED	P1-R	*	P2-HW4		TX-
		WHT	P1-BK	*	P2-HW1		RX +
2	22	GRN	P1-GN	*	P2-HW3	SOL	TX +

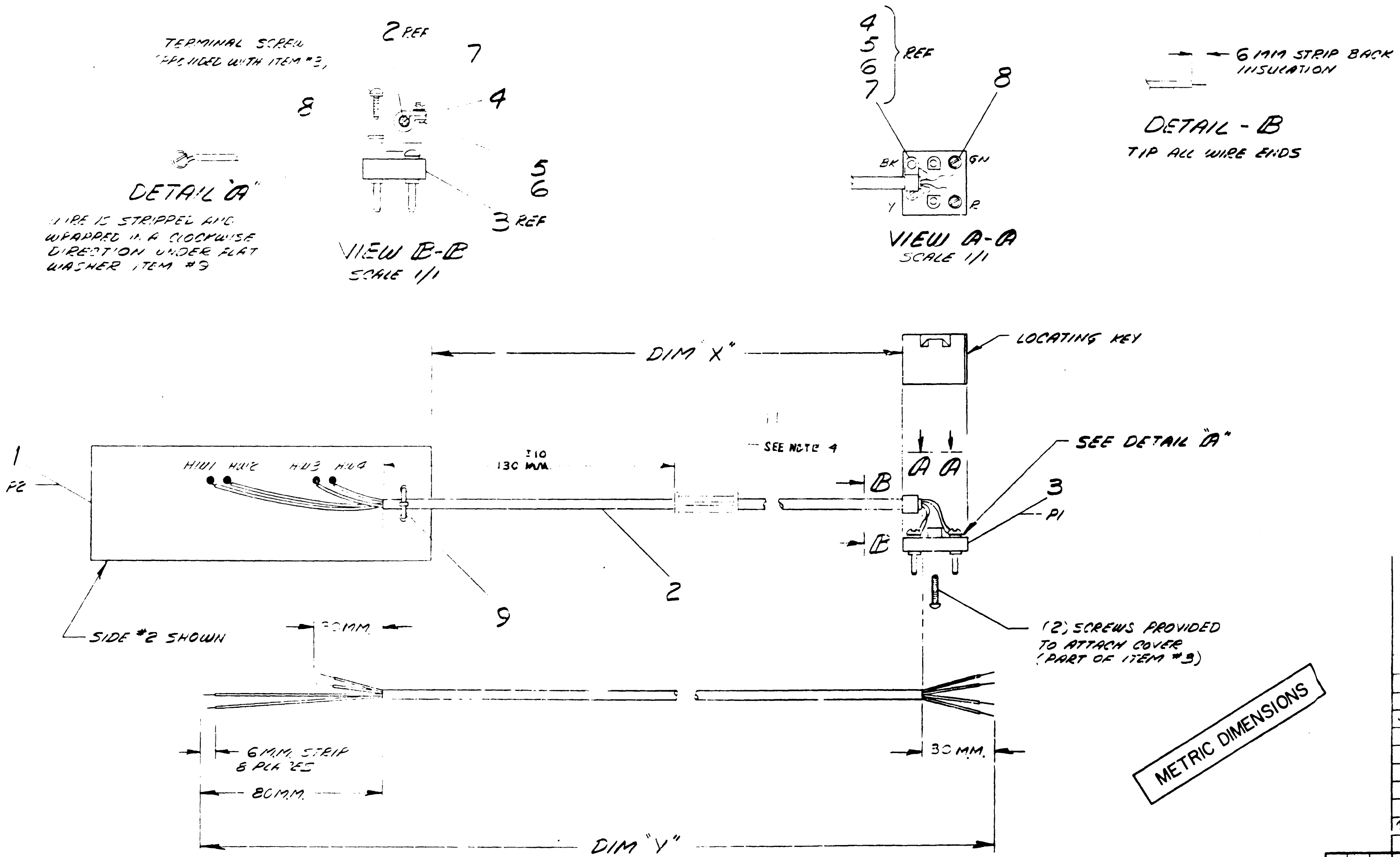
* SEE NOTE #3

LEGEND

NUMBER	DIM Y" INFLATION	DIM Y" PRE-CUT (REF)
BN52C-29	3.9 M	4.0 M
BN52C-7F	7.5 M	7.6 M

NOTES:

1. DISCARD SMALL SCREW SUPPLIED WITH PLUG (ITEM #3)
2. ATTACH CONN. (ITEM #10) TO CABLE WITH ONE (1) CABLE TIE (ITEM #9) DO NOT REMOVE CONN. FROM [illegible].
3. ATTACH WIRES INDICATED BY *, [illegible] TO ITEM #3, USING ITEM #8 AND [illegible] SUPPLIED WITH ITEM #3.
4. ASSEMBLE SPACER [illegible] CABLE TO ITEM #1.



QTY	DESCRIPTION	DWG/PART NO.	ITEM NO.
1	SPACER, CABLE	[illegible]	
1	CONN. TELEPHONE (JACK)	1205857-02	10
1	TIE WRAP	9007031	9
4	WASHER, FLAT #4	9008172	8
1	NUT, NYLON #4-40	90079 2	7
1	SCR. NYLON BIND. HD. #4-40 x .38	9006-01-4	6
1	WASHER, FLAT NYLON #4	9006706	5
1	CABLE CLAMP .12	9007079	4
1	CONN. TELEPHONE (PLUG	1205357-01	3
A/2	CABLE, 4 COND. #22 AWG.	9107736	2
1	20 MA ADAPTER CARD	D-CS-5411739-0-1	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	OVER 1 TO 5	OVER 5 TO 30	OVER 30 TO 100	OVER 100 TO 300	OVER 300 TO 1000	OVER 1000 TO 2000
SURFACE QUALITY IN MICROINCHES	MEDIUM	±0.1	±0.2	±0.3	±0.4	±0.6	±1.0
	PREFERRED	±0.3	±0.4	±0.6	±1.0	±1.6	±2.5

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FINISH: —

DRN: 8/7/73

CHK'D

ENG.

PROJ ENG.

PROD

NEXT HIGHER ASSY: B-UA-VT52-0-0

SCALE: 1/1

SHEET 1 OF 1

FIRST USED ON: VT52

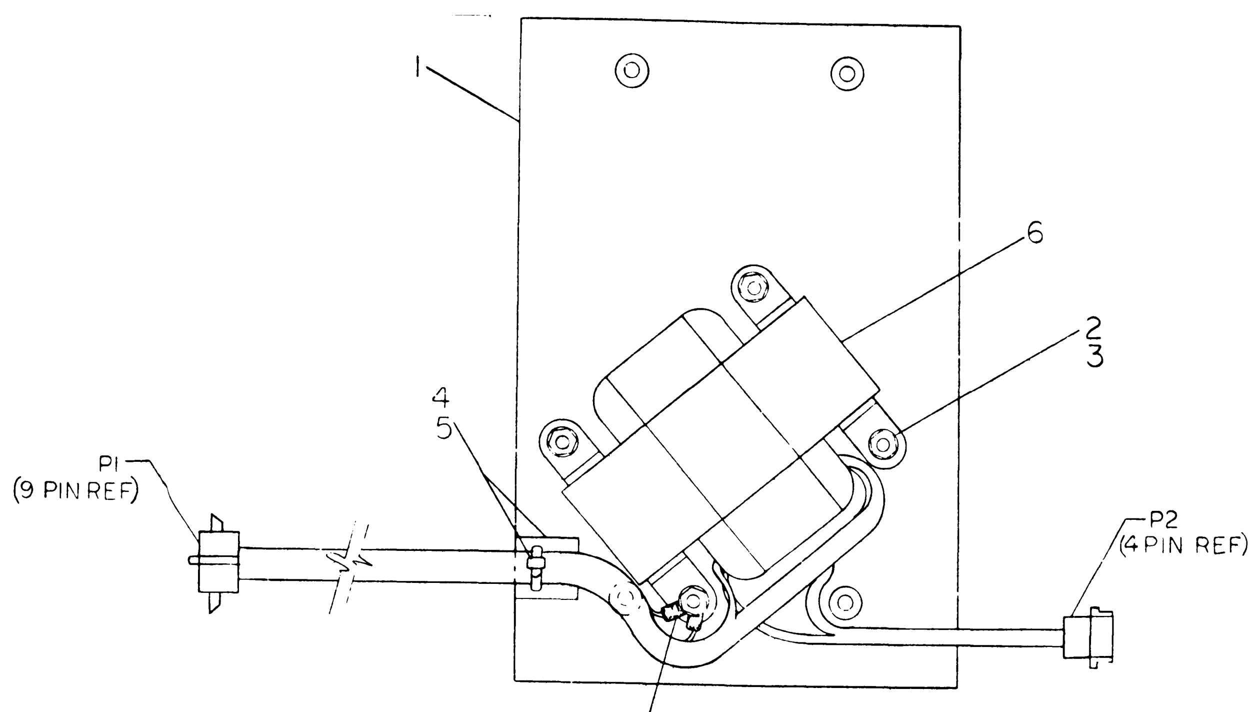
digital

TITLE: CURRENT LOOP TO 283B PLUG

SIZE: 1 | CODE: IA | NUMBER: BN52C-0-0 | REV: [illegible]

DIST

NOTES: 1 THE TWO RING TONGUE TERMINALS ATTACHED TO GREEN WIRES, CONNECTED TO P1, ARE PLACED OVER THE MOUNTING STUD FOR THE TRANSFORMER AND ITEMS 2 AND 3 ARE TIGHTENED DOWN OVER THEM.



QTY	DESCRIPTION	DWG/PART NO.	ITEM NO.
1	TRANSFORMER HARNESS	D-IA-7012031-0-0	6
1	TIE MOUNT	9008264-00	5
1	CABLE TIE	9007032	4
4	NUT #8-32	9006563-00	3
4	WASHER, FLAT #8 HOLE	9006653-00	2
1	PLATE, TRANS. MTG.	2-IA-7415039-0-0	1

7012032-0

QUANTITY & VARIATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'

SURFACE QUALITY IN MICROINCHES

CLASS OF ACCURACY (CHECK ONE)	OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
MEDIUM	±.004	±.008	±.012	±.016	±.024	±.04
PREFERRED	±.012	±.018	±.025	±.04	±.063	±.1

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL —
FINISH —

DRN.	TM	30 OCT 75
CHK'D		11-25-75
ENG.		11-25-75
PROJ. ENG.		11-25-75
PROD	P. Powers	11-25-75

NEXT HIGHER ASSY. J-UA-VT55-0-0

SCALE NONE

SHEET 1 OF 1

FIRST USED ON VT55

digital

TITLE
XFORMER PLATE ASSY. (120V, 60HZ)

SIZE D CODE IA NUMBER 7012032-0-0 REV.

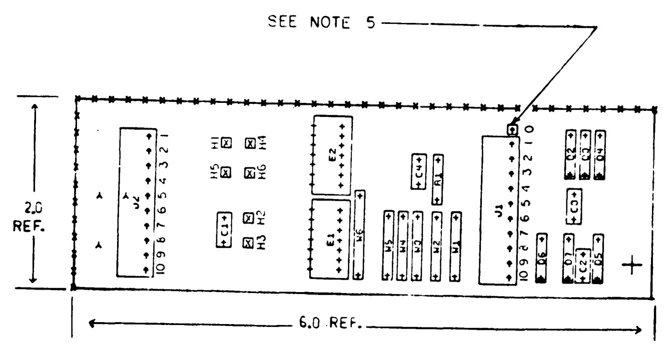
DIST.

REVISIONS | CHK | CHANGE NO. | REV.

DEC FORM NO. DRD 100-C

NOTES:

1. THIS CIRCUIT IS REPEATED 12 TIMES ON A 8" X 13" CIRCUIT BOARD
2. ALL DIODES ARE D664
3. MARK = -12V = LOGIC 1
   SPACE = +12V = LOGIC Ø
4. PLACEMENT OF COMPONENTS IS DEPENDANT ON DEC DRAWING #5410932 (VT50) AND #5411743 (VT52) FOR MOUNTING AND CLEARANCE
5. WHEN BUILDING THE DASH "0" VARIATION THE EXTRA HOLE ON CONN. J1 IS AS SHOWN BELOW



5411448-1 VT52	5411448-0 VT50				
1	–	J1	HEADER, 11 POSITION	1212519-04	14
6	6	H1-H6	EYELET GS4-3	90-07836	13
A/R	A/R	W1-W6	JUMPER	91-07560-1	12
1	1	E1	MC 1489L EIA RECEIVER	19-10323	11
1	1	E2	MC 1488L EIA DRIVER	19-10322	10
1	1	R1	RES 2.2K 1/4W 5% C.C.	13-00117	9
–	2	J1, 2	CONN AMP CIS TOP ENTRY 10 PIN	12 11982	8
6	6	D2-D7	DIODE D664	11-00114	7
3	3	C2,3,4	CAP .01UF 100V 20% DISC	10-01610-01	6
1	1	C1	CAP 470PF 100V D.M.	10-00024	5
1	1		ETCHED CIRCUIT BOARD	5011447	4
REF	REF		MODULE HISTORY LIST	B-MH-5411448-0-6	3
REF	REF		ASSY/DRILLING HOLE LAYOUT	D-AH-5411448-0-5	2
REF	REF		X-Y COORDINATE HOLE LOC.	K-CO-5411449-0-4	1
QTY	QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

FIRST USED ON OPTION MODEL: VT50

ETCH BOARD REV. D

DEC 1488 L	7	14	1
IC TYPE	GND	+11.5V	-10.5V

DEC 1488 L	7
IC TYPE	GND
	+5V

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

IC PIN LOCATIONS

REV.	CHANGE NO.				
B	5411448-00001	John Carter 1-28-76	M. WHITTLESEY	R. Pucci 2-3-76	
C	5411448 – 00002	5-3-76	R. PUCCI	R. Pucci 11-1-76	
D	5411448 – PN0003	6-JAN-77	M. WHITTLESEY	11-30-77	
L	5411448 - PN0004		J. BITTO	11-OCT-77	

REVISIONS

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

SEMICONDUCTOR CONVERSION CHART

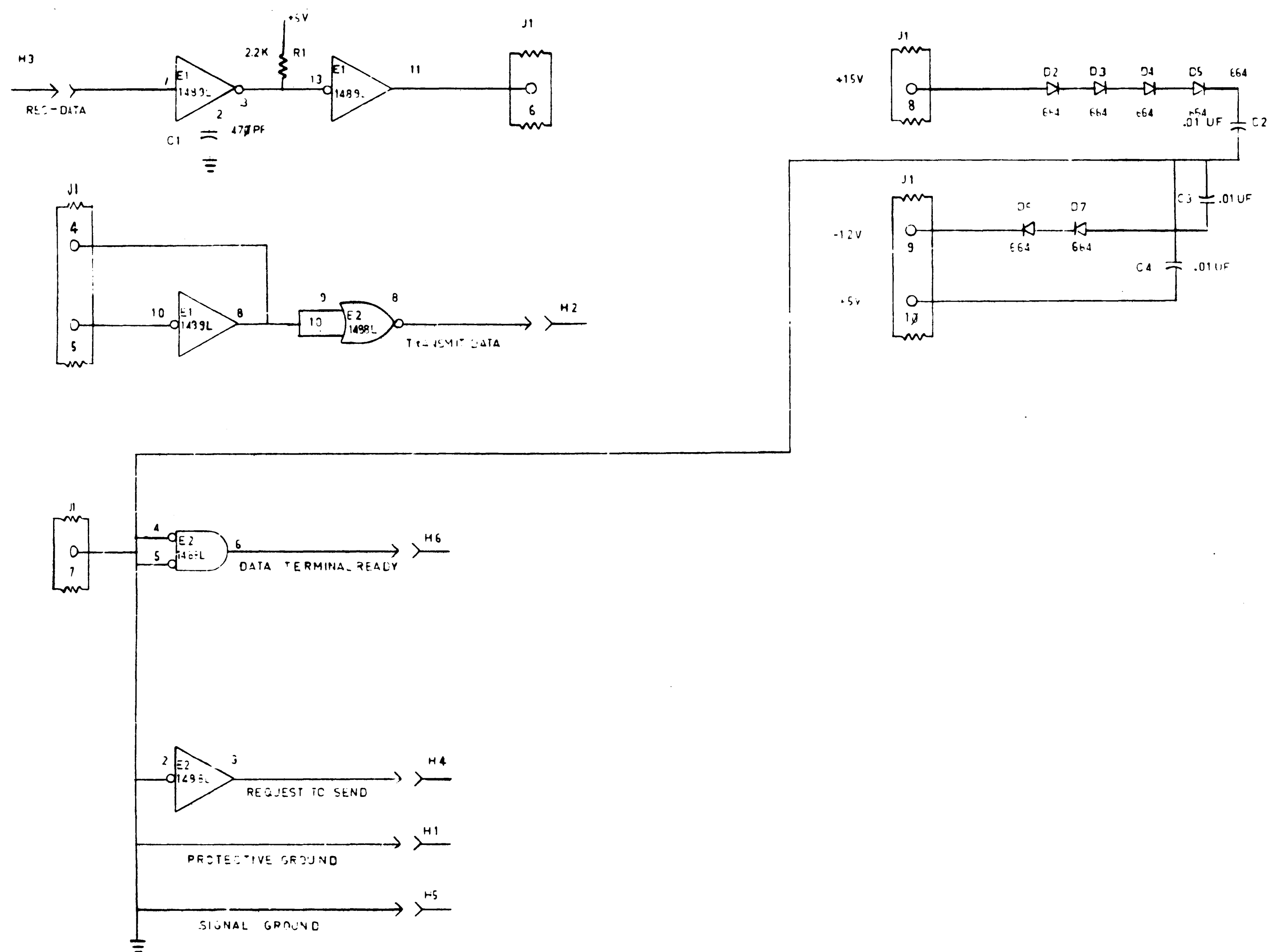
DRN. R. Pucci DATE 12-20-74
CHK'D. DATE 1-6-75
ENG. DATE 1-6-75
PROJ. ENG. DATE 1-6-75
PROD. DATE 1-6-75
NEXT HIGHER ASSY D-UA-BN50A-Ø-Ø
SCALE NONE
SHEET 1 OF 2

digital

TITLE VT5Ø EIA ADAPTER

SIZE	CODE	NUMBER	REV.
D	CS	5411448-Ø1	E

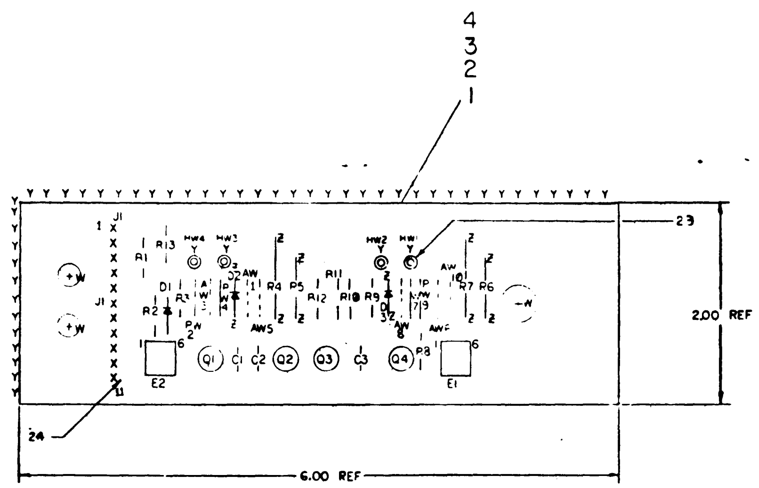
DIST.



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	VT50 EIA ADAPTER CARD	SIZE D	CODE CS	NUMBER 5411448-0-1	REV. F
SCALE	SHEET 2 OF 2	DIST.			

NOTES:



QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
REF		X-Y COORDINATE HOLE LOCATION	K-CO-5411759-0-4	1
REF		ASSY/DRILLING HOLE LAYOUT	E-AH-5411759-0-5	2
REF		MODULE ECO HISTORY	B-MH-5411759-0-6	3
1		ETCHED CIRCUIT BOARD	5011758	4
2	C1, C2	CAP. 270PF 100V DM	1000022	5
1	C3	CAP. .01MF 100V DISC	1001610-01	6
1	R9	RES. 33 1/4W 5%	1300197	7
1	R1	RES. 150 1/4W 5%	1300250	8
1	R8	RES. 220 1/4W 5%	1300271	9
1	R3	RES. 390 1/4W 5%	1300303	10
1	R11	RES. 750 1/4W 5%	1301101	11
2	R12, R13	RES. 7.5K 1/4W 5%	1301622	12
1	R2	RES. 68K 1/4W 5%	1301327	13
1	R10	RES. 120K 1/4W 5%	1300539	14
2	R5, R6	RES. 180 1/2W 5%	1300260	15
2	R4, R7	RES. 470 1W 5%	1300319	16
1	D1	DIODE MCL1301 (1MA @ 10-80V)	1105610	17
2	D2, D3	DIODE 1N4004	1105796	18
1	Q1	TRANS. SILICON, A55 PNP	1510706	19
1	Q2	TRANS. SILICON, A05 NPN	1510705	20
2	Q3, Q4	TRANS. DEC 6531B NPN	1509338	21
2	E1, E2	PHOTO OPTIC COUPLER	1911998	22
4	~~HW1 – HW4~~	EYELET, FLANGED	9007836	23
.355	J1	HEADER, 11 POSITION	1212513-04	24
AR	PW2, PW4, PW7, PW9	WIRE, BUSS #22AWG	9107560-01	25

PARTS LIST

IC TYPE	GND	+5V

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

IC PIN LOCATIONS

REV.	CHANGE NO.	ORIGINATED / ENTERED
*	ORIGINATED	
A	5411759-00001	M. MORGANSTERN 2-17-76
B	5411759-PI-002	M WHITTLESEY 12-JAN-77, BR-ED KING 2 MAR 77

REVISIONS

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

SEMICONDUCTOR CONVERSION CHART

FIRST USED ON OPTION MODEL: VT52

ETCH BOARD REV.: B

DRN. Silvia DATE 6-11-75
CHK'D DATE 8-27-75
ENG. DATE 8/29/75
PROJ. ENG. DATE 8/29/75
PROD. DATE 8/29/75

NEXT HIGHER ASSY: 1-IA-BN52B-0-0

SCALE: —

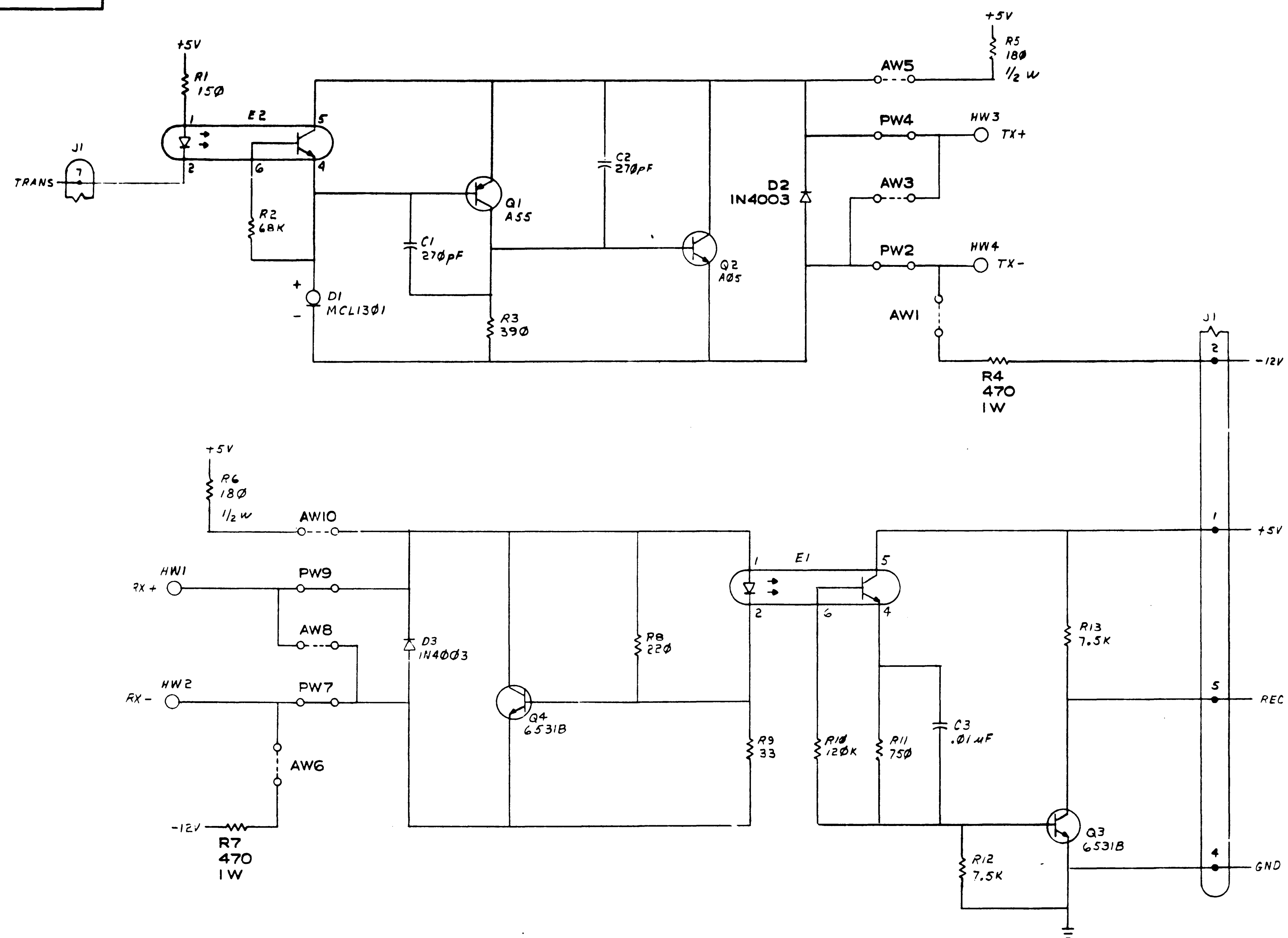
SHEET 1 OF 2

digital

TITLE: 20 MA ADAPTER CARD

SIZE: D CODE: CS NUMBER: 5411759-0-1 REV. B

DIST.



NOTES :

1. HW = EYELETS FOR HARDWIRING POINTS
2. AW JUMPERS ARE OPTIONAL JUMPERS
3. TO CONVERT FROM PASSIVE TO ACTIVE MODE , DELETE JUMPERS PW2 , PW4 , PW7 ¢ PW9 .
   ADD JUMPERS AW1 , AW3 , AW5 , AW6 , AW8 ¢ AW10 .

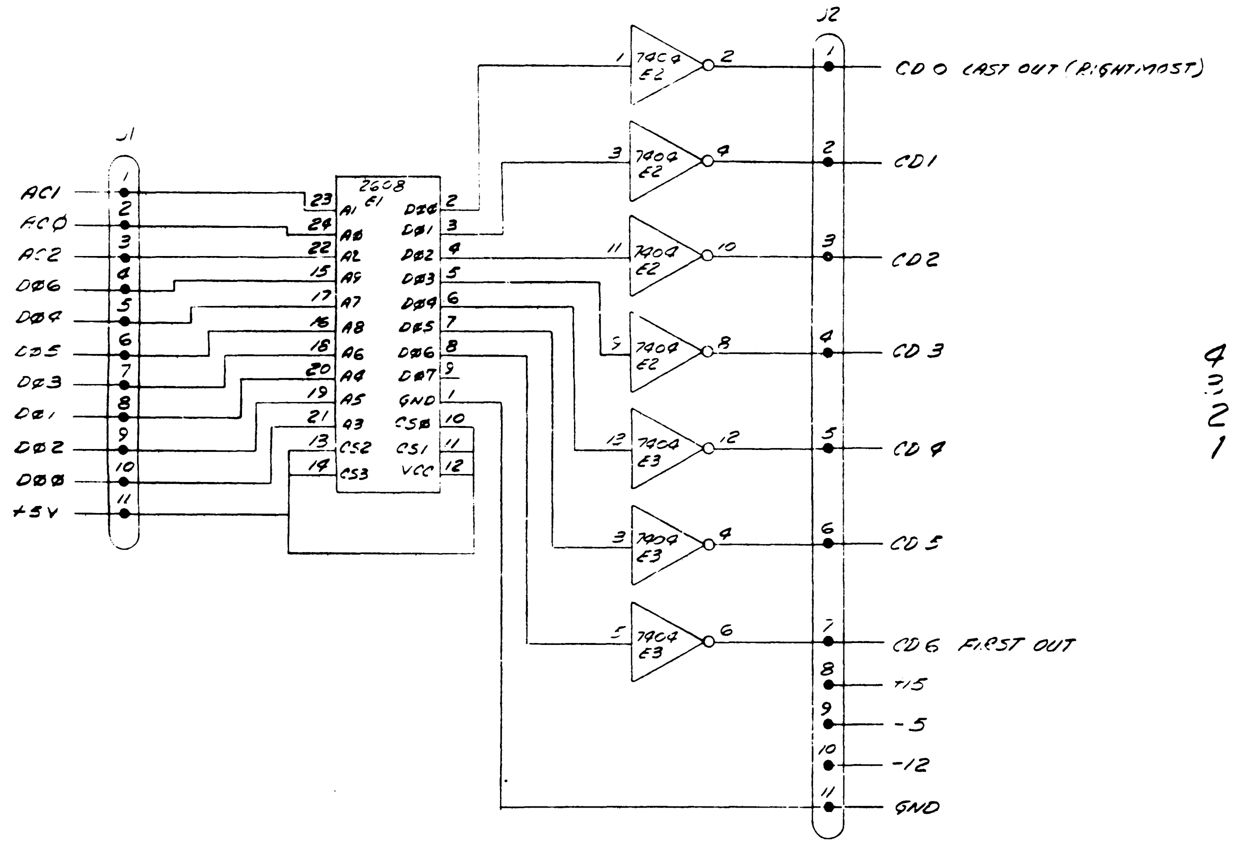
REVISIONS		
CHK	CHANGE NO.	REV.

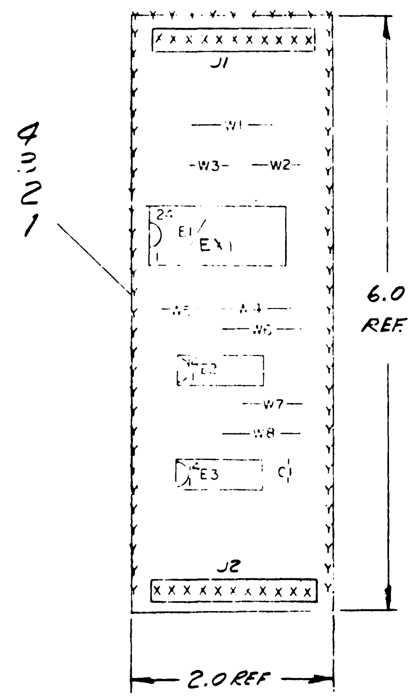
TITLE	SIZE	CODE	NUMBER	REV.
20MA ADAPTER CARD	D	CS	5411759-0-1	B
SCALE —	SHEET 2 OF 2	DIST.		

D CS 5411759-0-1 B

NOTES:

1. JUMPERS W3, W5 ON .4 CENTERS
   JUMPERS W2, W7 ON .6 CENTERS
   JUMPERS W1, W4, W6, W8 ON .8 CENTERS





QTY		REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
REF	REF		1-1 COORDINATE HOLE LOCATION	K-CO-5411815-0-4	1
REF	REF		ASSY/DRILLING HOLE LAYOUT	E-AH-5411815-0-5	2
REF	REF		MODULE ECO HISTORY	B-MH-541 5-0-6	3
1	1		ETCHED CIRCUIT BOARD	5011819	4
1	1	C1	CAP. .01MF 100V 20% DISC	1001610-01	5
2	2	E2, E3	I.C. DEC 7404	1909686	6
—	1	E1	I.C. DEC 2608	2300284	7
A/R	A/R	W1 THRU W8	JUMPER	9107780-01	8
A/R	A/R	J1, J2	HEADER, 11 POSITION	1218519	9
1	—	EX1	SOCKET, IC 24 PIN	1209693-00	10
5411815-YA	5411815-0-0				

PARTS LIST

FIRST USED ON OPTION MODEL: VT52

ETCH BOARD REV. A

IC TYPE	GND	+5V
2608	1	12

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.

REVISIONS: 5411815 PN002 B — M. WHITTLESEY; ORIGINATED

digital

TITLE: 8K CHARACTER GENERATOR

NEXT HIGHER ASSY: D-UA-VT52-0-0

SCALE: NONE

SHEET 1 OF 1

SIZE D CODE CS NUMBER 5411815-Ø-1 REV. D

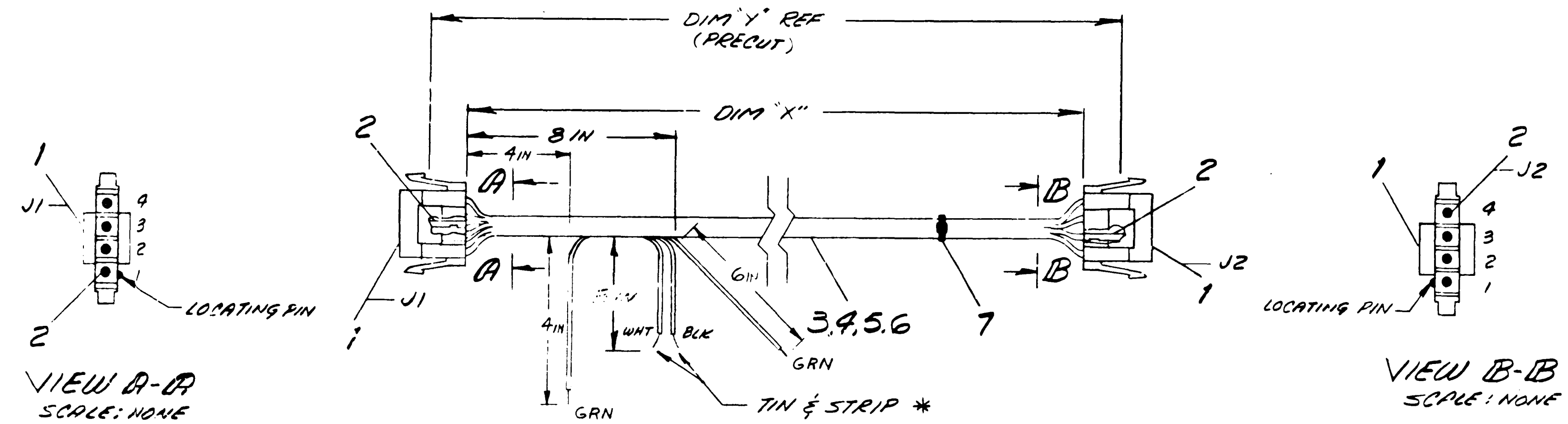
LEGEND

NUMBER	VARIATION	
	DIM "X"	DIM "Y" REF
7011867-1	16 IN. ± 1 IN.	17 IN. ± 1 IN.

WIRE TABLE

ITEM NO	DESCRIPTION AWG	DESCRIPTION COLOR	FROM CONNECTION	FROM WITH	TO CONNECTION	TO WITH
3	#18	RED	J1-4	#2	J2-4	#2
6	#18	RED/YEL	J1-3	#2	J2-3	#2
4	#18	BLK	J1-2	#2	J2-2	#2
4	#18	BLK			—	*
5	#18	WHT	J1-1	#2	J2-1	#2
5	#18	WHT			—	*
8	#18	GRN	GROUND	9	GROUND	9

* INDICATES TIN & STRIP



2	TERMINAL, RING TONGUE #10	9007930-01	9
A/R	WIRE, #18AWG GRN	9107360-55	8
A/R	TIE WRAP	9007031-00	7
A/R	WIRE, #18 AWG RED/YEL	9107410-20	6
A/R	WIRE #18 AWG WHT	9107360-99	5
A/R	WIRE #18 AWG BLK	9107360-00	4
A/R	WIRE #18 AWG RED	9107360-22	3
8	SOCKET, TERMINAL	1209379-00	2
2	SOCKET, HOUSING	1203350-04	1
QUANTITY & VARIATION	DESCRIPTION	DWG/PART NO	ITEM NO

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN MICROINCHES	MEDIUM	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED	±.012	±.016	±.025	±.04	±.063	±.1

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FINISH: —

DRN: 9/11/75
CHK'D: 10/13/75
ENG
PROJ ENG
PROD D. Andrews 12/19/75
NEXT HIGHER ASSY: Ø-UA-VT52-0-0
SCALE: NONE
SHEET 1 OF 1

FIRST USED ON: VT52

digital

TITLE: CABLE, PRIMARY POWER

SIZE: D CODE: IA NUMBER: 7011867-0-0 REV.

DIST

REVISIONS | CHG NO. | REV.

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

SEQUENCE SEQUENCE

THIS IS PRINT SET

UNIT VARIATIONS		PRINT SET
VAR	TITLE	
M7Ø24	GRAPHING CONTROL MODULE	

REVISIONS

REV	CHG. NO.	DATE
A	M7024-00001	10-75
B	M7024-00002	NOV-75
D	M7024-[illegible]	12-16-7[illegible]
E	M7Ø24-[illegible]	2-10-7[illegible]
F	M70[illegible]4-ØØØØ5	[illegible]
H	M7Ø24-00005	9/2[illegible]
J	M7024-0000[illegible]	1-77
K	M7024-PN008	8-77
L	M7024-PN009	10-77
M	M7024-PN010	1-78

USED ON OPTION/MODEL	
VT55	

SHEET 1 OF 2

		DATE
DRN.	E DeVries	6-26-75
CHK'D.	[illegible]	6/26/75
PROJ. ENG.	[illegible]	6-25-75
PROD.	[illegible]	6-25-75
FIELD SERV.		

TITLE GRAPHING CONTROL MODULE

SIZE	CODE	NUMBER	REV
B	DD	M7Ø24-Ø	M

DIST

REVISION CONTROL SHEET

CUSTOMER PRINT SET	MFG SET	DRAWING NO	NO OF SHT	DESCRIPTION	OPTION NO/FILE DATE	ORIG	00001	00002	00003	00003A	00004	00005	00006	0006A	00007	PN0008	PN0009	PN010
	X	D-UA-M7Ø24-Ø-Ø	5	GRAPHING CONTROL MODULE		-	B	C	D	D	E	F	H	H	J	K	L	M
	X	D-CS-M7Ø24-Ø-1	10	M7Ø24 GRAPHING CONTROL MODULE		-	B	C	D	D	E	F	H	H	J	K	L	M
		K-CO-M7Ø24-Ø-4	1	X-Y COORDINATE HOLE LOCATION		B	B	B	B	B	B	C	D	D	D	D	D	D
		E-AH-M7Ø24-Ø-5	2	ASSY/DRILLING HOLE LAYOUT		A	B	C	D	D	E	F	H	H	J	K	L	M
		B-MH-M7Ø24-Ø-6	1	MODULE ECO HISTORY		-	A	B	C	D	E	F	H	J	K	L	M	N
		5011366	-	ETCH CIRCUIT BOARD		B	B	B	B	B	B	B	D	D	D	D	D	D

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
GRAPHING CONTROL MODULE	SHEET 2 OF 2	B	DD	M7Ø24-Ø	M

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NOTES:

1. FOR DRAWING DIRECTORY REFER TO B DD M7024-0

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	NO.
4	E47,E49 E60,E61	I C. DEC 74174	1910852	50
5	E50,E56 E69 E99 E101	I C. DEC 7474	1905547	51
3	E65 E69 E60	I C. DEC 7400	1905575	52
6	E67 E75 E85 E93,E95 E96	I C DEC 74H74	1909667	53
2	E89 E92	I C DEC 4044	1911039	54
2	E99 E102	I C DEC 4024	1911038	55
3	E70,E82,E91	I C DEC 8242	1909712	56
1	E76	I C DEC 7410	1905576	57
1	E77	I C. DEC 74S175	1910957	58
2	E64 E97	I C DEC 74H20	1905635	59
1	E100	I C DEC 74161	1910650	60
~~[illegible]~~		~~[illegible]~~	~~[illegible]~~	61
~~A/R~~		~~[illegible]~~	~~[illegible]~~	62
9		TRANSIPAD	9007201	63
2	P17,P18	GRAPHING CONTROL CABLE #1	D IA 7010769 0 0	64
1	P15	GRAPHING CONTROL CABLE #1	D IA 7010769 1 0	65
1	P16	GRAPHING CONTROL CABLE #2	D IA 7010769 1 0	66
2?		SPLIT LUG	90-06735	67
2	W1,W2	JUMPER WHT.	90-09185	68
4	C125,C127 C129,C131	CAP 180 PF 100V	1000020-00	69
1	C144	CAP 390 PF, 100V	1001631-00	70
1	R201	RES 47 Ω 1/4W 5%	1300202	71
2	C145,C147	CAP .01 uf 100V DISC	1000610-01	72
2	C146, C148	CAP 10 uf 20V ±10%	1004913	73

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	NO.
1		ETCHED CIRCUIT BOARD	5011398	1
105	C1-C103 C142, C143	CAP .01uf 100V	1001610-01	2
14	C108 THRU C120, C141	CAP 15uf 20V	1004912	3
2	C121 C140	CAP 1uf 35V	1001778	4
4	C126,C128,C130 C132	CAP 100pf 100V	1000015	5
1	C133	CAP. 15uf 35V	1002180	6
1	C135	CAP 560pf 100V	1000025	7
2	C134 C137	CAP 39pf 100V	1000010	8
1	C136	CAP 330pf 100V	1000023	9
1	C124	CAP .033uf 100V	1000050	10
1	C138	CAP 15pf	1002427	11
1	C139	CAP 470pf	1000024	12
12	D1 THRU D8,D10,D12,D14 D16	DIODE D664	1100114	13
4	D9,D11 D13 D15	DIODE IN749A	1109977	14
1	D17	DIODE IN752A	1102809	15
77	R1 THRU R76, R202	RES 2 2K 5% 1/4W	1300417	16
9	R77,R79 THRU R81 R83 R84 R86 R87 R131	RES 33 5% 1/4W	1300197	17
25	R85 R89 THRU R111	RES 1K 5% 1/4W	1300385	18
10	R112 THRU R118, R126 R133 R200	RES 4 7K 5% 1/4W	1300447	19
1	R119	RES 10K 10% 3/4W POT	1309143 10	20
2	R120 R121	RES 1 8K 5% 1/4W	1300??9	21
1	R130	RES 220 5% 1/4W	1300271	22
2	R122 R123	RES 100 5% 1/4W	1300229	23
1	R124	RES 10K 5% 1/4W	1300479	24
3	R13, R78,R82	RES. 470 5% 1/4W	1300319	25
6	Q1,Q2, Q15 THRU Q18	TRANS 2N4258	1509147	26
4	Q3 THRU Q6	TRANS DEC 2904	1501742	27
5	Q7 THRU Q10,Q19	TRANS DEC 2219	1501881	28
4	Q11 THRU Q14	TRANS DEC 3009B	1503100	29
~~4~~	~~Q15 THRU Q18~~	~~TRANS DEC [illegible]~~	~~[illegible]~~	~~30~~
9	E1 E26 E33 E35,E55 E59 E74 E90	I C DEC 7402	~~[illegible]~~	30
4	E2 E14 E23 E54	I C DEC 7401	1909004	31
8	E3,E4 E11 THRU E13 E15 E22 E23	I C DEC 8235	1905?90	32
10	E6 THRU E10 E16 THRU E20	I C DEC 1402	1904?5	33
3	E5 E58 E79	I C DEC 74H04	1910205	34
5	E21 E24 E25 E27 E28	I C DEC 74S158	1909911	35
3	E43 E44 E81	I C DEC 74H58	1910549	37
2	E48 E51	I C DEC 74123	1903062	
7	E40 E41,E62,E71 E72 E83, E94	I C DEC 74193	1910436	38
2	E32 E42	I C DEC 74S157	1910019	39
2	E34 E37	I C DEC 7417	1910548	40
4	E30 E31 E33,E39	I C. DEC 7485	1909929	41
1	E73	I.C DEC 7442	1910224	42
1	E53	I.C. DEC 74175	1910048	43
3	E39 E57,E86	I C DEC 74?9	1910851	44
1	E52	I C DEC 3108	1910155	45
2	E63 E84	I C DEC 3106	1910819 2	46
5	E45,E78,E86 THRU E88	I C. DEC 74H10	1909057	47
1	E49	I C DEC 74H08	1909058	48
		I C DEC 7404	1909644	49

PARTS LIST

FIRST USED ON OPTION MODEL: VT55

IC TYPE	GND	+5V

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

IC PIN LOCATIONS

REVISIONS: M — M7024-PN010; L — E. KING, M7024-EC009; K — J. DESUK, M7024-PN0008; J — E. KING, M7024-00007; H — E. KING, M7024-00006, 4-APR-76; E — E. KING, M7024-00004; D — E. KING, M7024-00003; C — E. KING; B — M7024

SEMICONDUCTOR CONVERSION CHART

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

DR: E. DeVirro 6-23-75

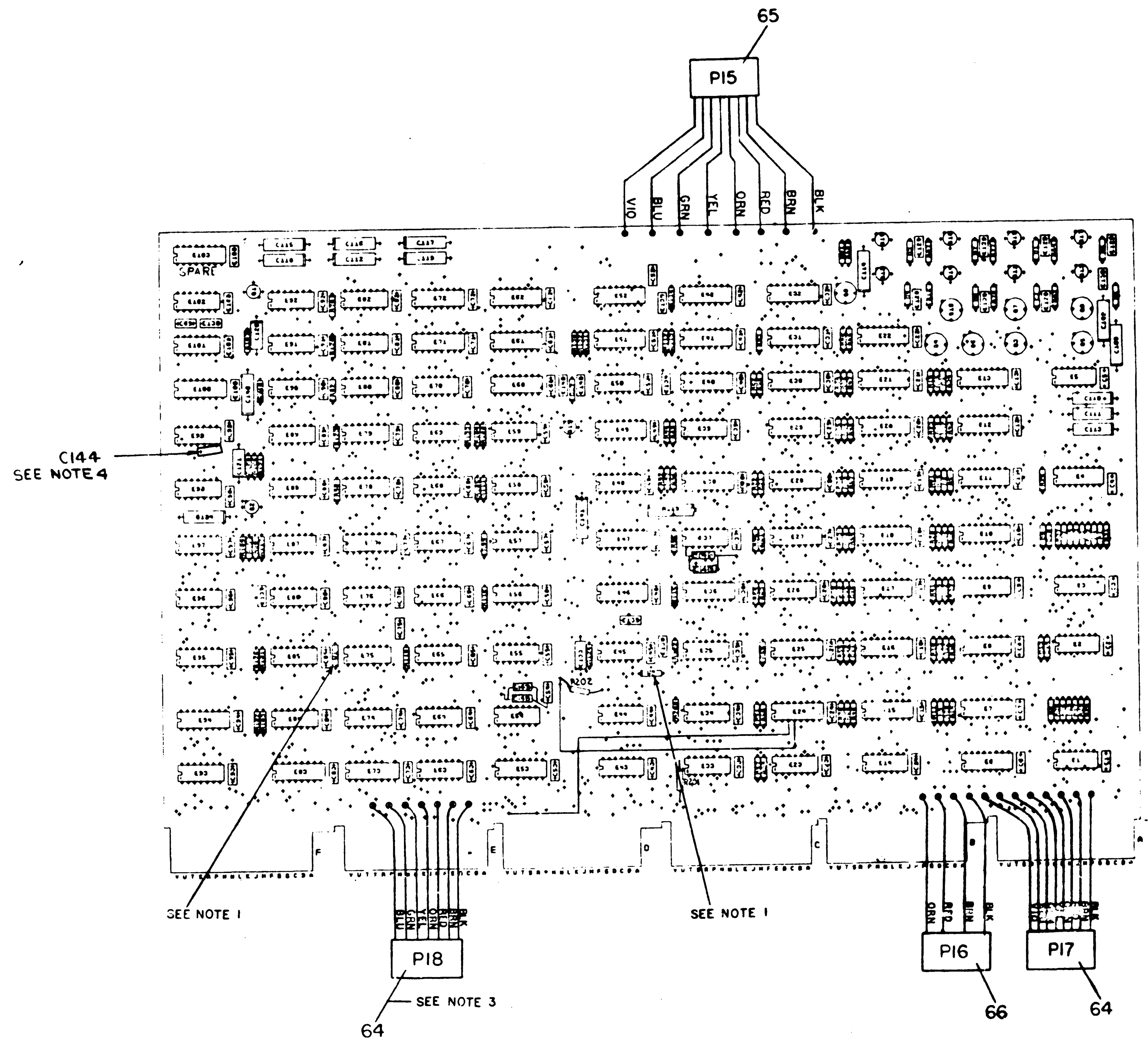
digital

GRAPHING CONTROL MODULE

D UA M7024-0-0

NOTES

1. W1 & W2 ARE INSERTED FOR 5Ø HZ OPERATION AND REMOVED FOR 6ØHZ OPERATIONS. BOARDS ARE ALWAYS ASSEMBLED WITH W1 & W2 INSERTED.
2. PLACE TRANSIPADS ITEM 63 UNDER Q3 THRU Q1Ø & Q19.
3. CUT VIOLET WIRE AT PLUG ON P18.
4. DRILL HOLE ABOVE GND ETCH AS SHOWN SH 3 MOUNT CAP C144 THRU THIS HOLE AND FEED THRU WHICH CONNECTS TO PIN 3 OF E99. SOLDER CAP AT FEED THRU AND FOLD OTHER LEAD OVER TO GND ETCH ON PIN 7 OF E99. SOLDER THIS CONTACT AND TRIM LEADS.



SIGNAL TABLE

CONN	COLOR	SIGNAL NAME
P15	BLK	+5V
	BRN	+5V
	RED	+15V
	ORN	-5V
	YEL	-12V
	GRN	GND
	BLU	GND
P15	VIO	GC1Ø-Z L
P17	BLK	GND
	BRN	DP1-DØ6
	RED	DP1-DØ5
	ORN	DP1-DØ4
	YEL	DP1-DØØ
	GRN	DP1-DØ1
	BLU	DP1-DØ2
P17	VIO	DP1-DØ3
P16	BLK	GND
P16	BRN	RUT1-H FLY H
P16	RED	RUT1-ENCYCLE L
P16	ORN	RUT1-B INIT L
P18	BLK	DP2-CCF L
	BRN	GND
	RED	DP2-CEN L
	ORN	DP2-CSF L
	YEL	GC1Ø-DOT L
	GRN	RUT1-TSC L
P18	BLU	DP2-GRAPHIC L

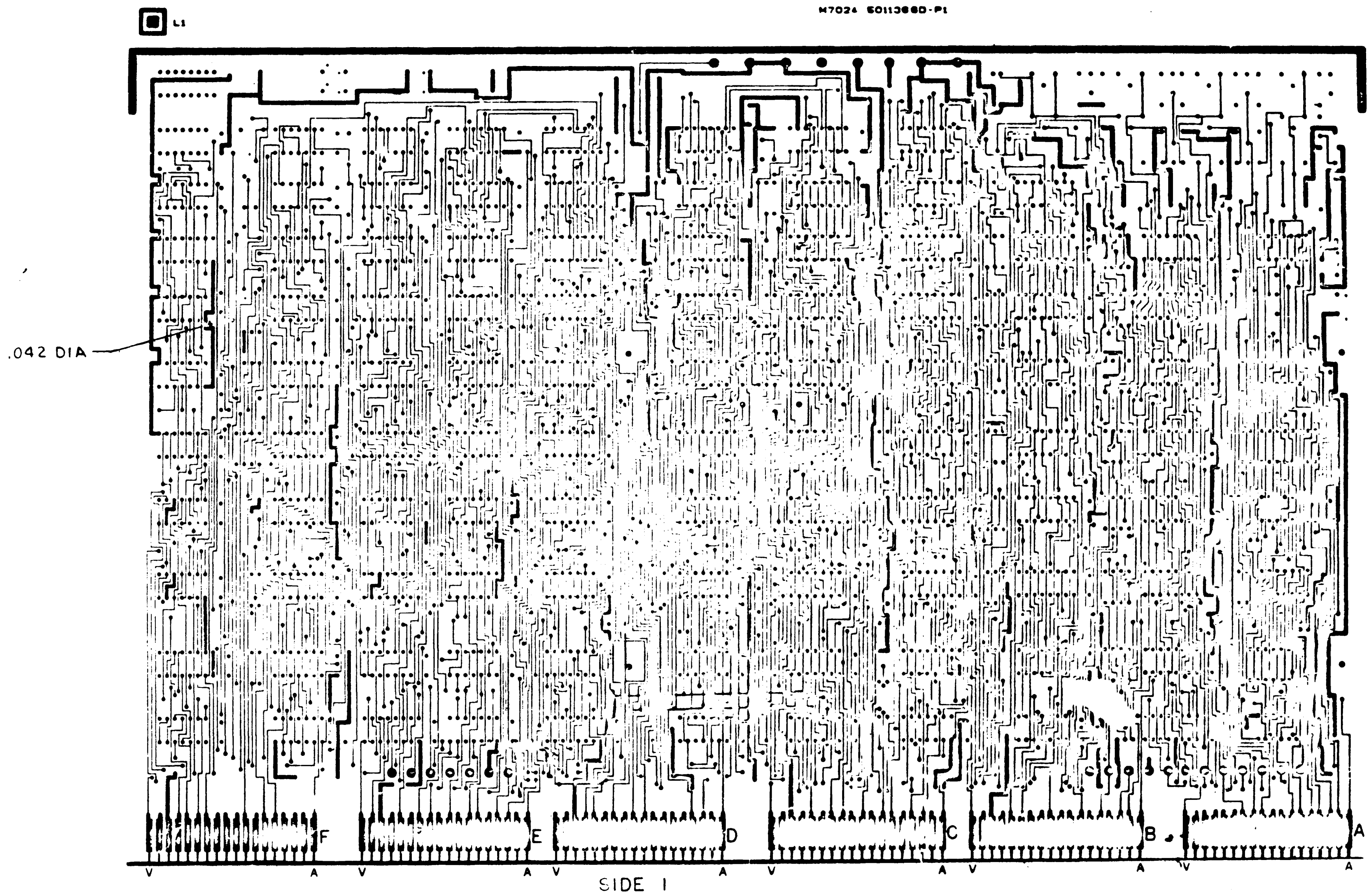
REVISIONS		
CHK	CHANGE NO	REV

TITLE: GRAPHING CONTROL MODULE

SIZE: D | CODE: UA | NUMBER: M7Ø24 - Ø - Ø | REV: M

SCALE: — | SHEET 2 OF 5

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



D
C
B
A

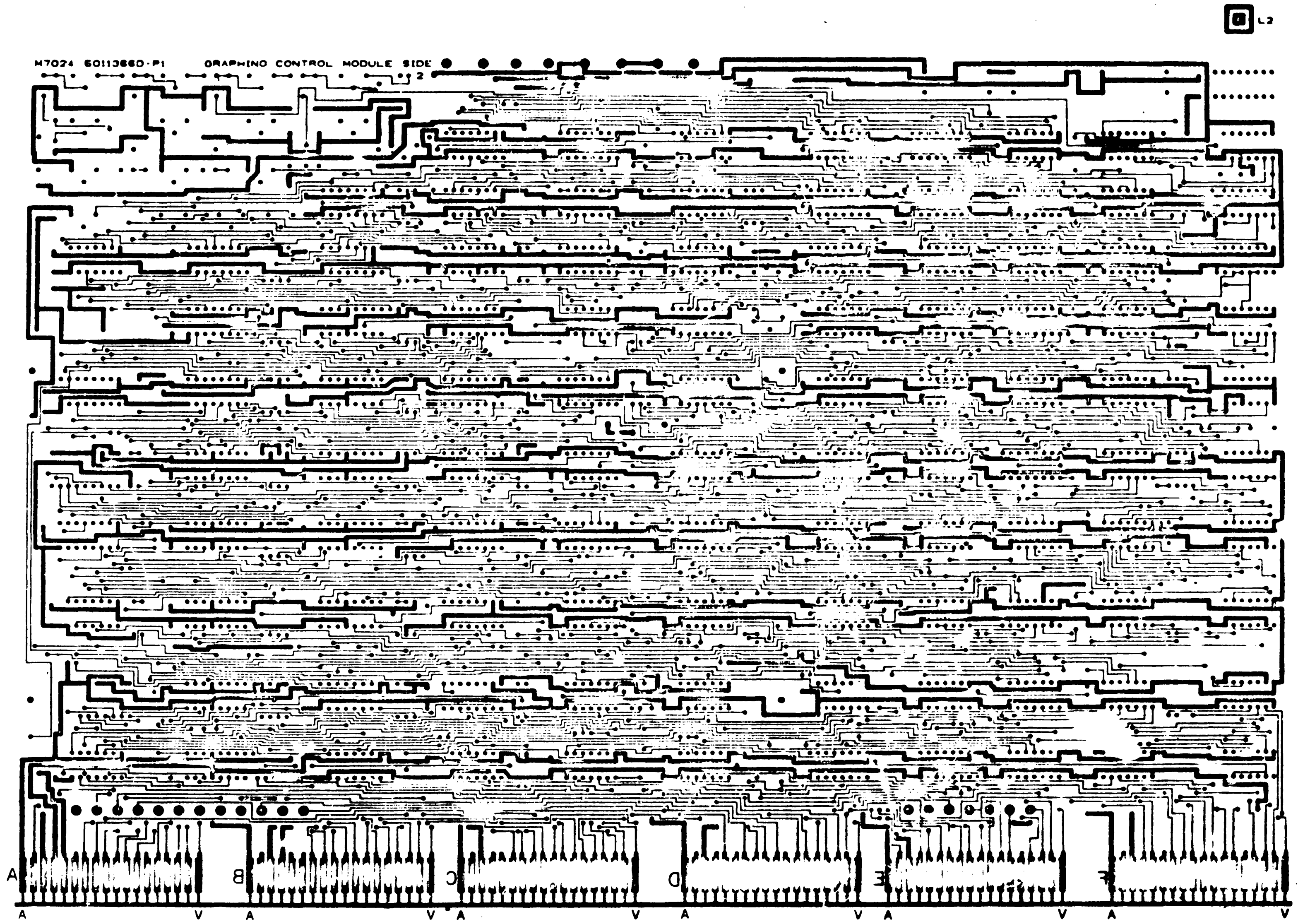
REVISIONS		
CHK	CHANGE NO.	REV

TITLE	SIZE	CODE	NUMBER	REV.
GRAPHING CONTROL MODULE	D	UA	M7024-0-0	M
SCALE —	SHEET 3 OF 5	DIST		

D UA M7024-0-0 M

8	7	6	5	4	3	2	1

D



SIDE 2

C

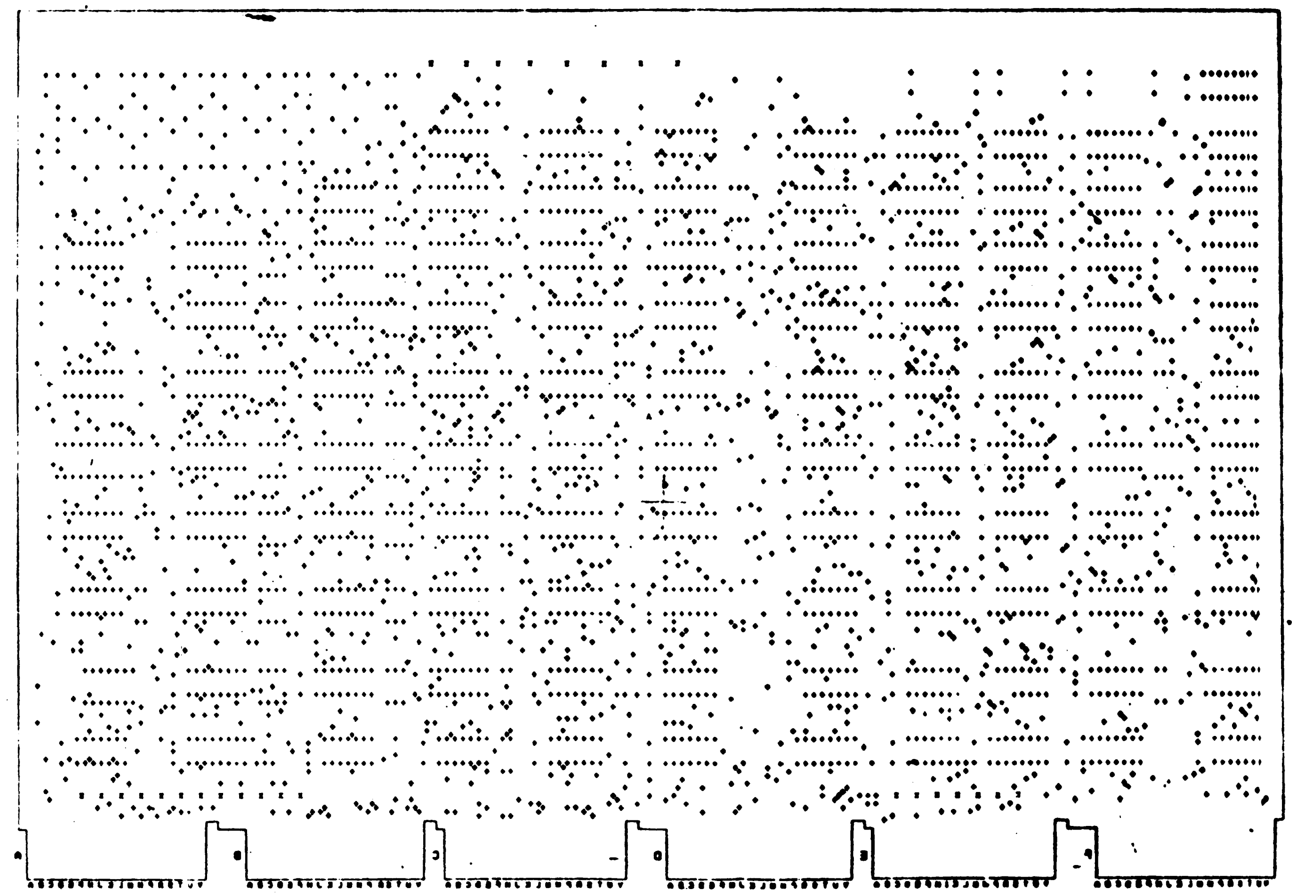
B

A

REVISIONS		
CHK	CHANGE NO	REV

TITLE	GRAPHING CONTROL MODULE
SIZE	D
CODE	UA
NUMBER	M7Ø24 - Ø - Ø
REV	M
SCALE	—
SHEET	4 OF 5
DIST	

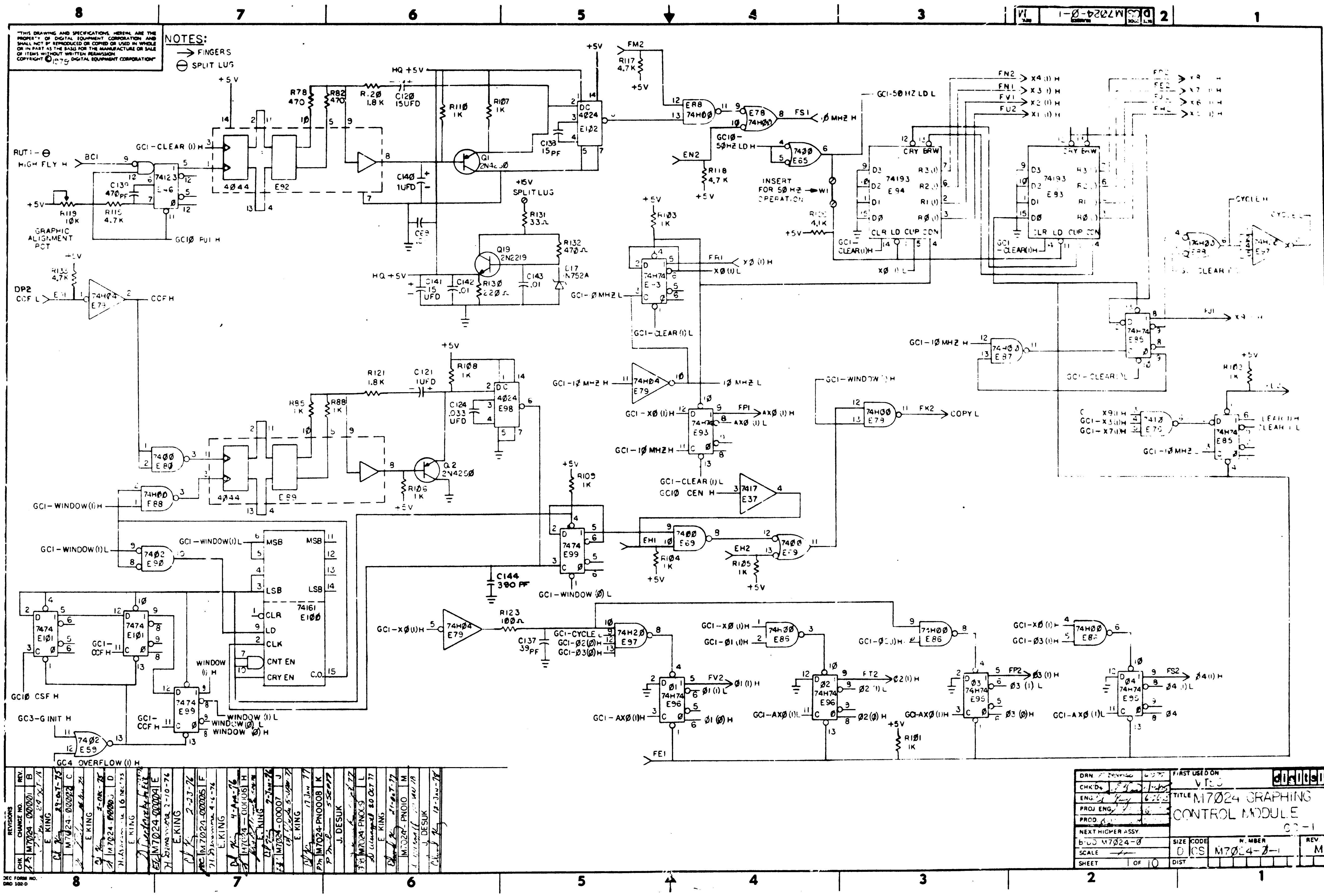
D UA M7Ø24 - Ø - Ø M



SIDE 2

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	GRAPHING CONTROL MODULE
SIZE	D
CODE	UA
NUMBER	M7Ø24 - Ø - Ø
REV.	M
SCALE	—
SHEET	5 OF 5
DIST.	



NOTES:
FINGERS
SPLIT LUG
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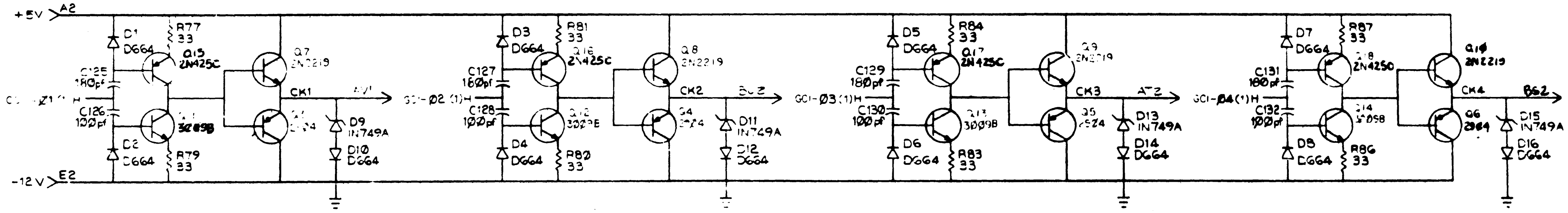
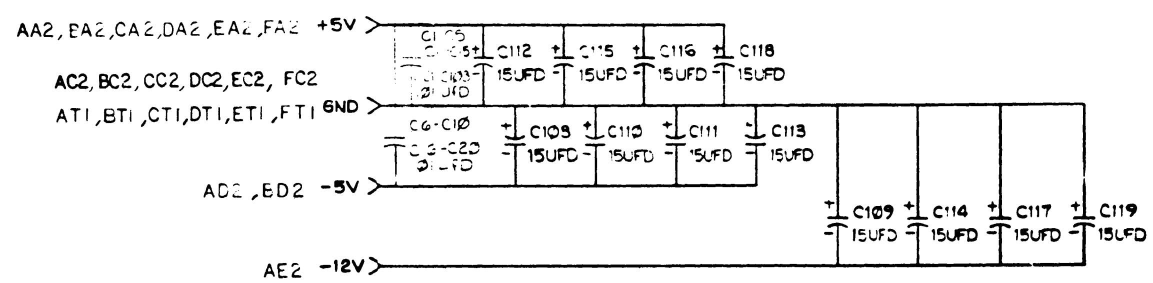
FIRST USED ON
VT55
TITLE M7024 GRAPHING CONTROL MODULE
GC-1
NEXT HIGHER ASSY
B-UD M7024-0
SIZE D
CODE CS
NUMBER M7024-0-1
REV M
SHEET OF 10
DRN.
CHK'D.
ENG.
PROJ ENG.
PROD.
SCALE
DIST
digital





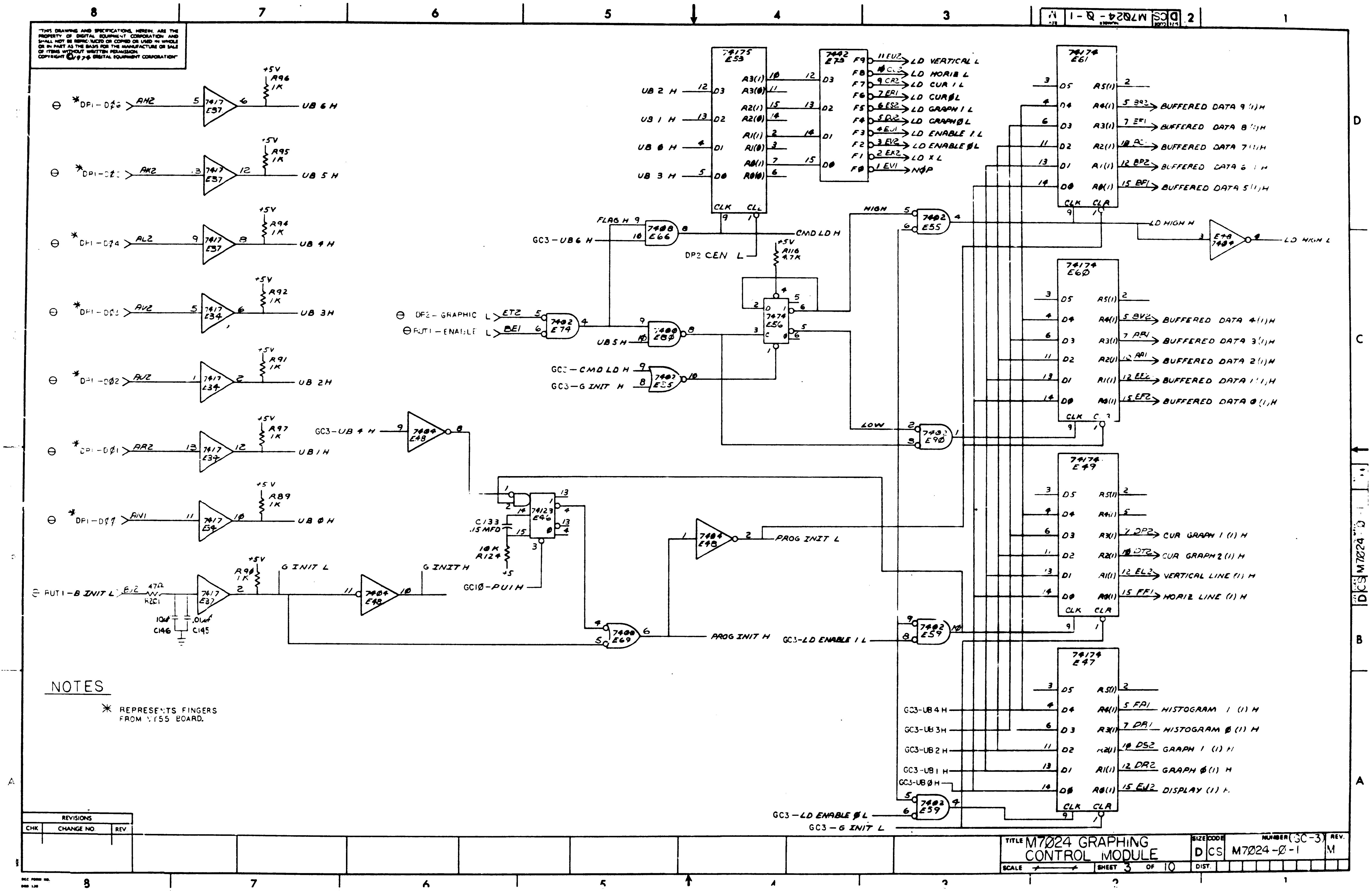
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE M7024 GRAPHING CONTROL MODULE

SIZE	CODE	NUMBER	REV.
D	CS	M7024-Ø-1 GC-2	M

SCALE — SHEET 2 OF 10

DIST.



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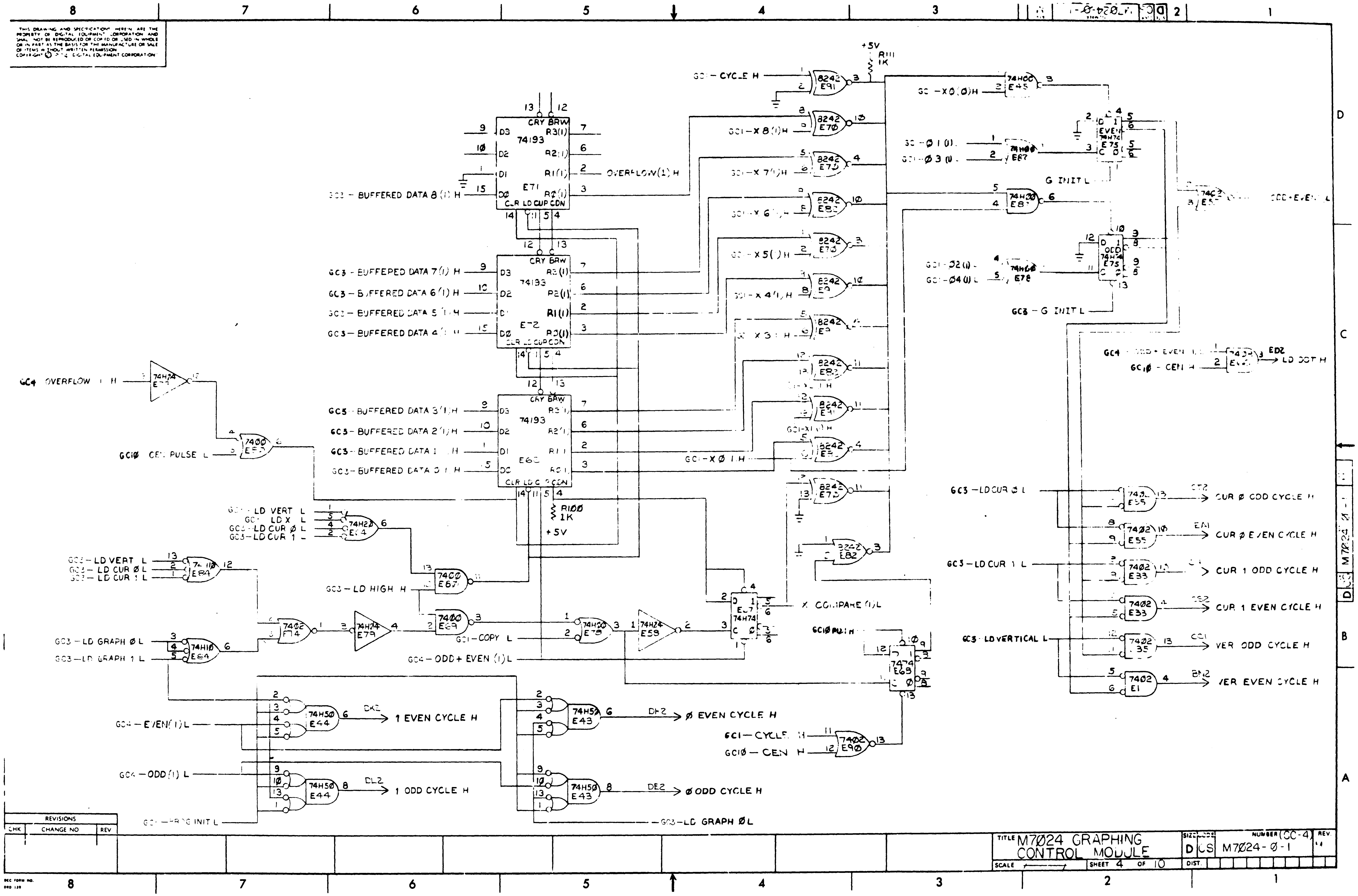
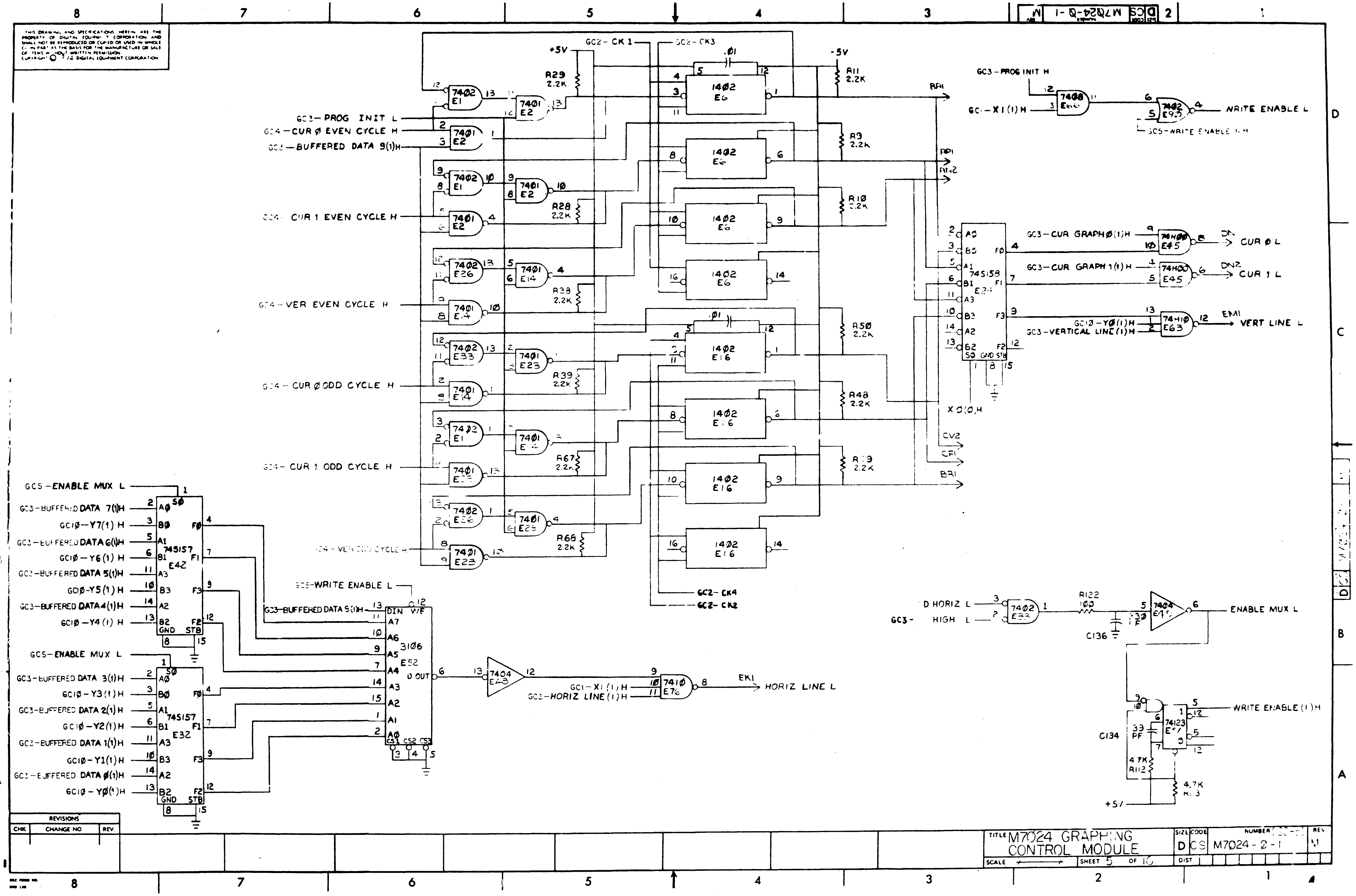
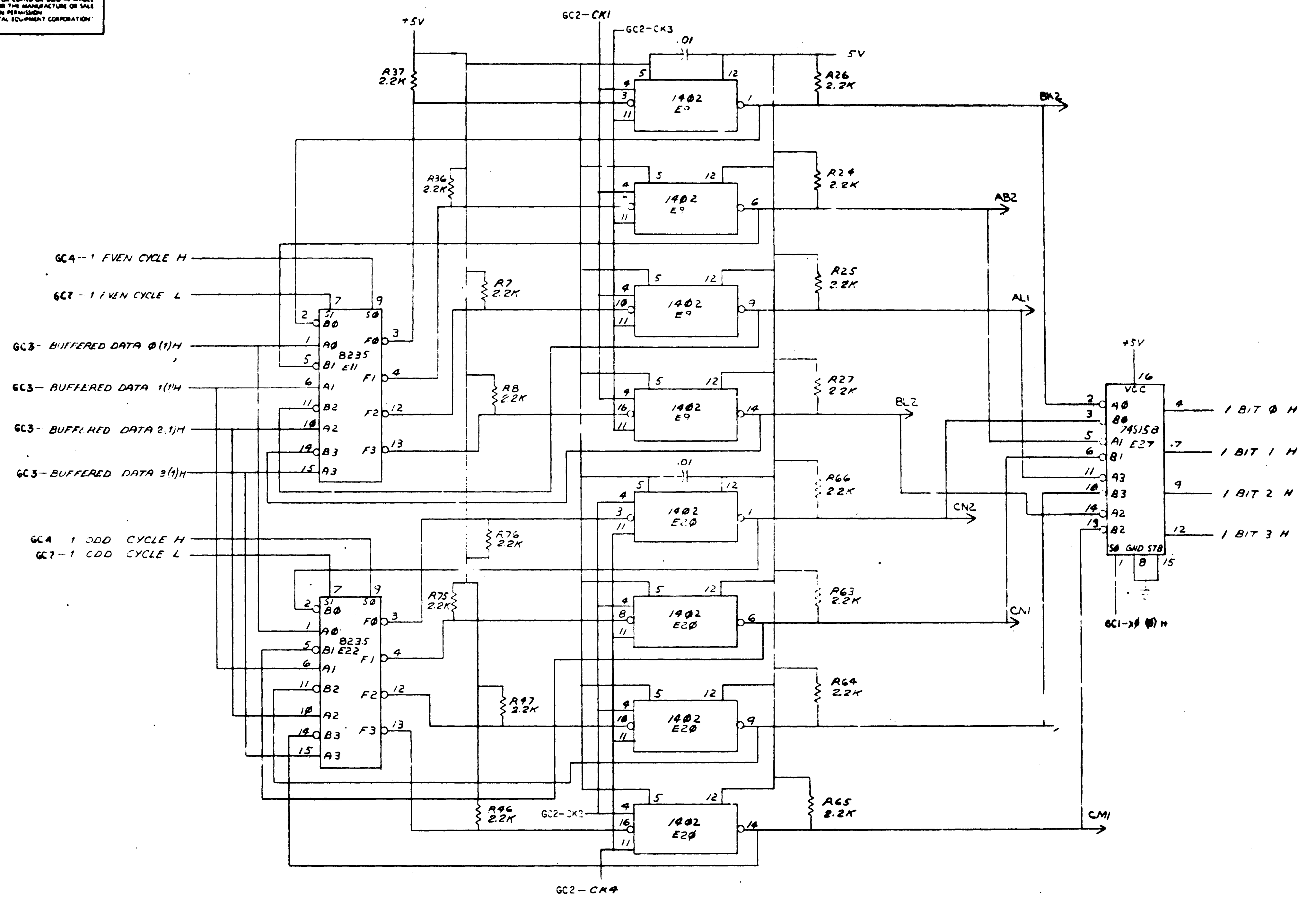
DCS M7024-0-1
UB 6 H
UB 5 H
UB 4 H
UB 3H
UB 2H
UB 1 H
UB 0 H
+5V
7417
E37
E34
7404
E48
7402
E74
E55
E90
E59
7400
E66
E69
7474
E56
74123
E46
74175
E53
7442
E73
74174
E61
E60
E49
E47
DP2-GRAPHIC L
FUT1-ENABLE L
FLAG H
GC3-UB6 H
UB5 H
GC3-CMD LD H
GC3-G INIT H
GC3-UB 4 H
CMD LD H
DP2 CEN L
HIGH
LOW
LD HIGH H
LD HIGH L
FUT1-B INIT L
G INIT L
G INIT H
GC10-PU1 H
PROG INIT L
PROG INIT H
GC3-LD ENABLE 1 L
GC3-LD ENABLE 0 L
GC3-G INIT L
LD VERTICAL L
LD HORIZ L
LD CUR 1 L
LD CUR0 L
LD GRAPH 1 L
LD GRAPH0 L
LD ENABLE 1 L
LD ENABLE 0 L
LD X L
NOP
BUFFERED DATA 9 (1) H
BUFFERED DATA 8 (1) H
BUFFERED DATA 7 (1) H
BUFFERED DATA 6 (1) H
BUFFERED DATA 5 (1) H
BUFFERED DATA 4 (1) H
BUFFERED DATA 3 (1) H
BUFFERED DATA 2 (1) H
BUFFERED DATA 1 (1) H
BUFFERED DATA 0 (1) H
CUR GRAPH 1 (1) H
CUR GRAPH 2 (1) H
VERTICAL LINE (1) H
HORIZ LINE (1) H
HISTOGRAM 1 (1) H
HISTOGRAM 0 (1) H
GRAPH 1 (1) H
GRAPH 0 (1) H
DISPLAY (1) H
GC3-UB 4 H
GC3-UB 3 H
GC3-UB 2 H
GC3-UB 1 H
GC3-UB 0 H
NOTES
* REPRESENTS FINGERS FROM VT55 BOARD.
REVISIONS
CHK
CHANGE NO.
REV
TITLE M7024 GRAPHING CONTROL MODULE
SIZE D
CODE CS
NUMBER M7024-0-1
REV. M
SCALE
SHEET 3 OF 10
DIST.


M7024 GRAPHING CONTROL MODULE
SHEET 4 OF 10
D CS M7024-0-1
GC4 OVERFLOW
GC10 CEN PULSE L
OVERFLOW(1) H
GC3 - BUFFERED DATA 8 (1) H
GC3 - BUFFERED DATA 7 (1) H
GC3 - BUFFERED DATA 6 (1) H
GC3 - BUFFERED DATA 5 (1) H
GC3 - BUFFERED DATA 4 (1) H
GC3 - BUFFERED DATA 3 (1) H
GC3 - BUFFERED DATA 2 (1) H
GC3 - BUFFERED DATA 1 (1) H
GC3 - BUFFERED DATA 0 (1) H
GC3 - LD HIGH H
GC1 - COPY L
GC4 - ODD + EVEN (1) L
X COMPARE (1) L
GC3 - LD GRAPH 0 L
GC3 - LD GRAPH 1 L
GC4 - EVEN (1) L
GC4 - ODD (1) L
1 EVEN CYCLE H
1 ODD CYCLE H
0 EVEN CYCLE H
0 ODD CYCLE H
GC1 - CYCLE H
GC10 - CEN H
G INIT L
GC8 - G INIT L
ODD + EVEN L
LD DOT H
GC3 - LD CUR 0 L
GC3 - LD CUR 1 L
GC3 - LD VERTICAL L
CUR 0 ODD CYCLE H
CUR 0 EVEN CYCLE H
CUR 1 ODD CYCLE H
CUR 1 EVEN CYCLE H
VER ODD CYCLE H
VER EVEN CYCLE H
REVISIONS



M7024-Q-1
GC2-CK 1
GC2-CK3
GC3-PROG INIT L
GC4-CUR Ø EVEN CYCLE H
GC3-BUFFERED DATA 9(1)H
CUR 1 EVEN CYCLE H
VER EVEN CYCLE H
CUR Ø ODD CYCLE H
CUR 1 ODD CYCLE H
GC5-ENABLE MUX L
GC3-PROG INIT H
GC1-X1(1)H
WRITE ENABLE L
GC5-WRITE ENABLE L
GC3-CUR GRAPHØ(1)H
CUR Ø L
GC3-CUR GRAPH 1(1)H
CUR 1 L
GC3-VERTICAL LINE(1)H
VERT LINE L
GC2-CK4
GC2-CK2
HORIZ LINE L
GC3-HORIZ LINE(1)H
ENABLE MUX L
WRITE ENABLE(1)H
74S157
74S158
3106
1402
7402
7401
7404
7410
74123
REVISIONS
CHK
CHANGE NO
REV
TITLE M7024 GRAPHING CONTROL MODULE
SIZE D
CODE CS
NUMBER M7024-2-1
SHEET 5 OF 10

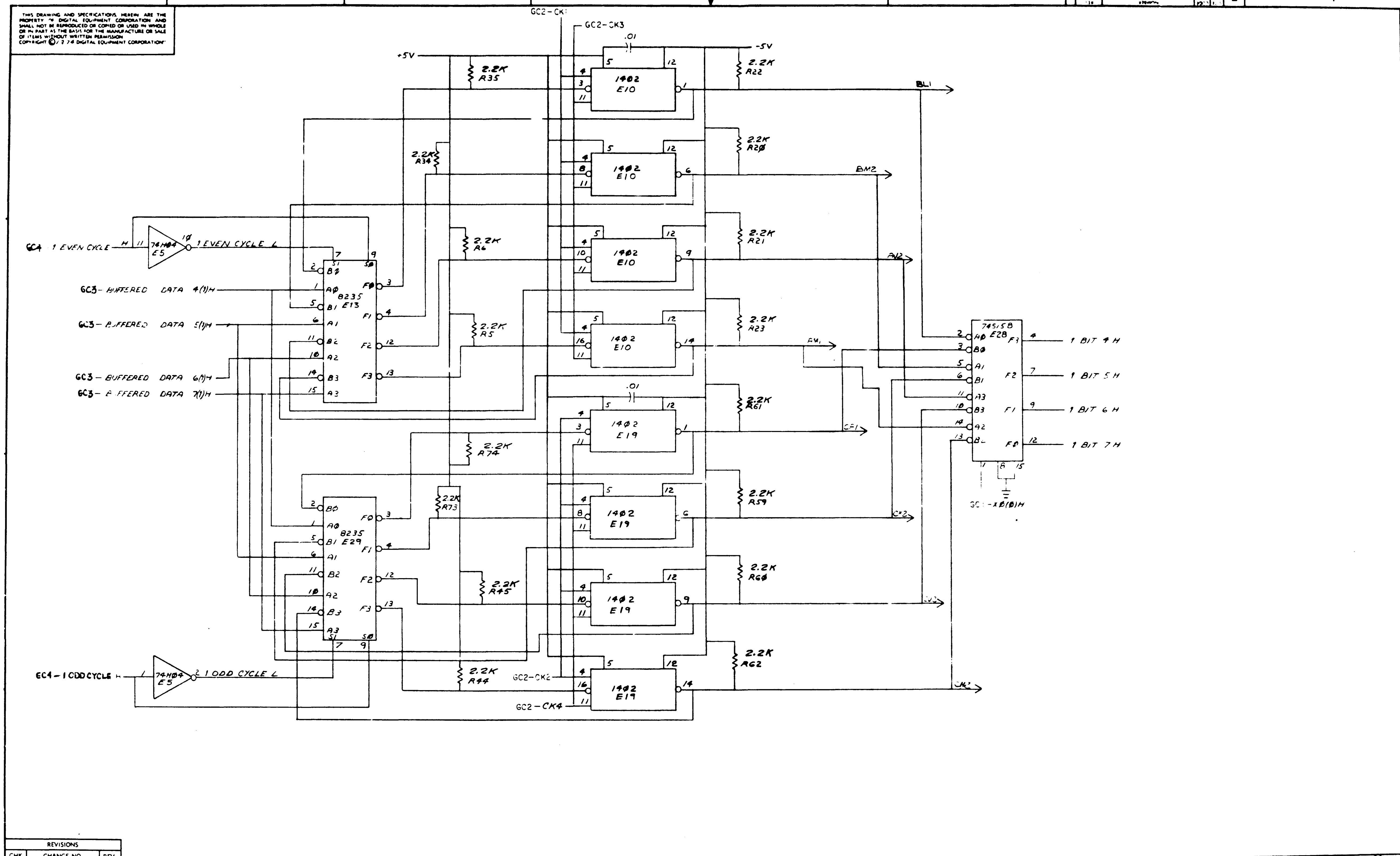


REVISIONS		
CHK	CHANGE NO	REV

TITLE M7Ø24 GRAPHING CONTROL MODULE

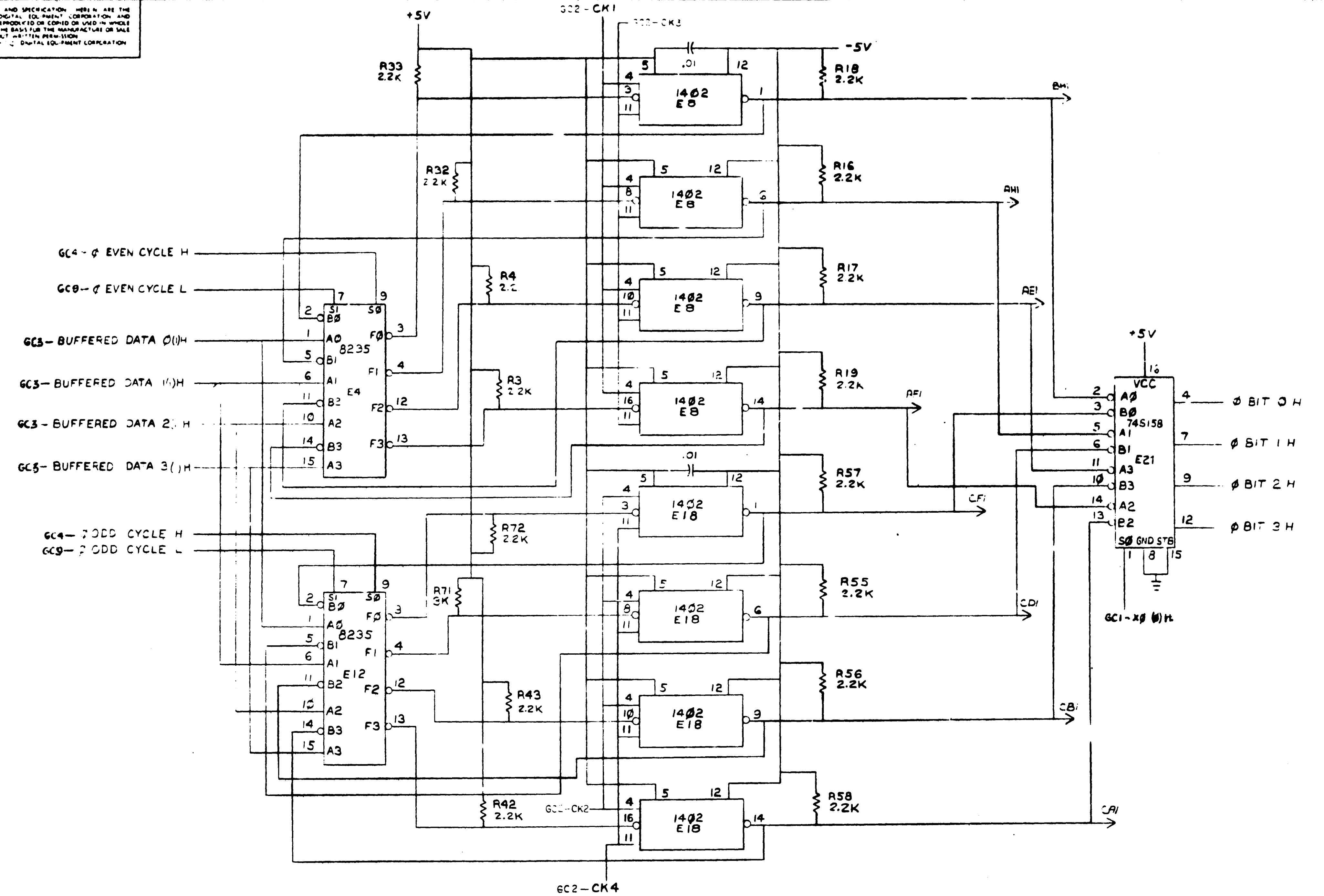
SIZE D | CODE CS | NUMBER (GC-3) M7Ø24-Ø-1 | REV. M

SCALE | SHEET 6 OF 10



TITLE	SIZE	CODE	NUMBER	REV
M7024 GRAPHING CONTROL MODULE	D	CS	M7024-Ø-1	

SHEET 7 OF 10



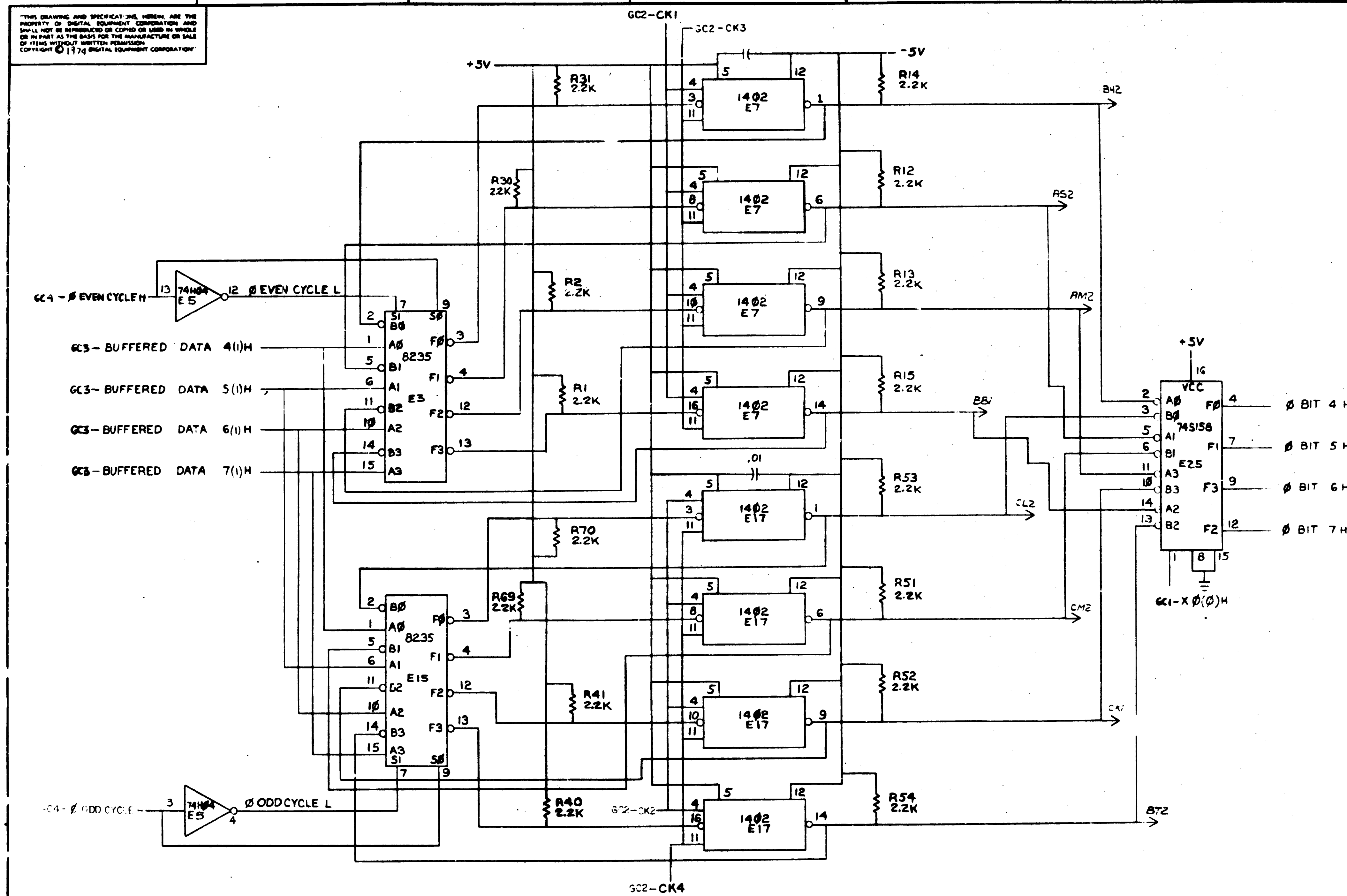
REVISIONS		
CHK	CHANGE NO	REV

TITLE M7024 GRAPHING CONTROL MODULE

SIZE D CODE CS NUMBER M7024-0-1 REV M

SCALE — SHEET 8 OF 8

DEC FORM NO DRD 130

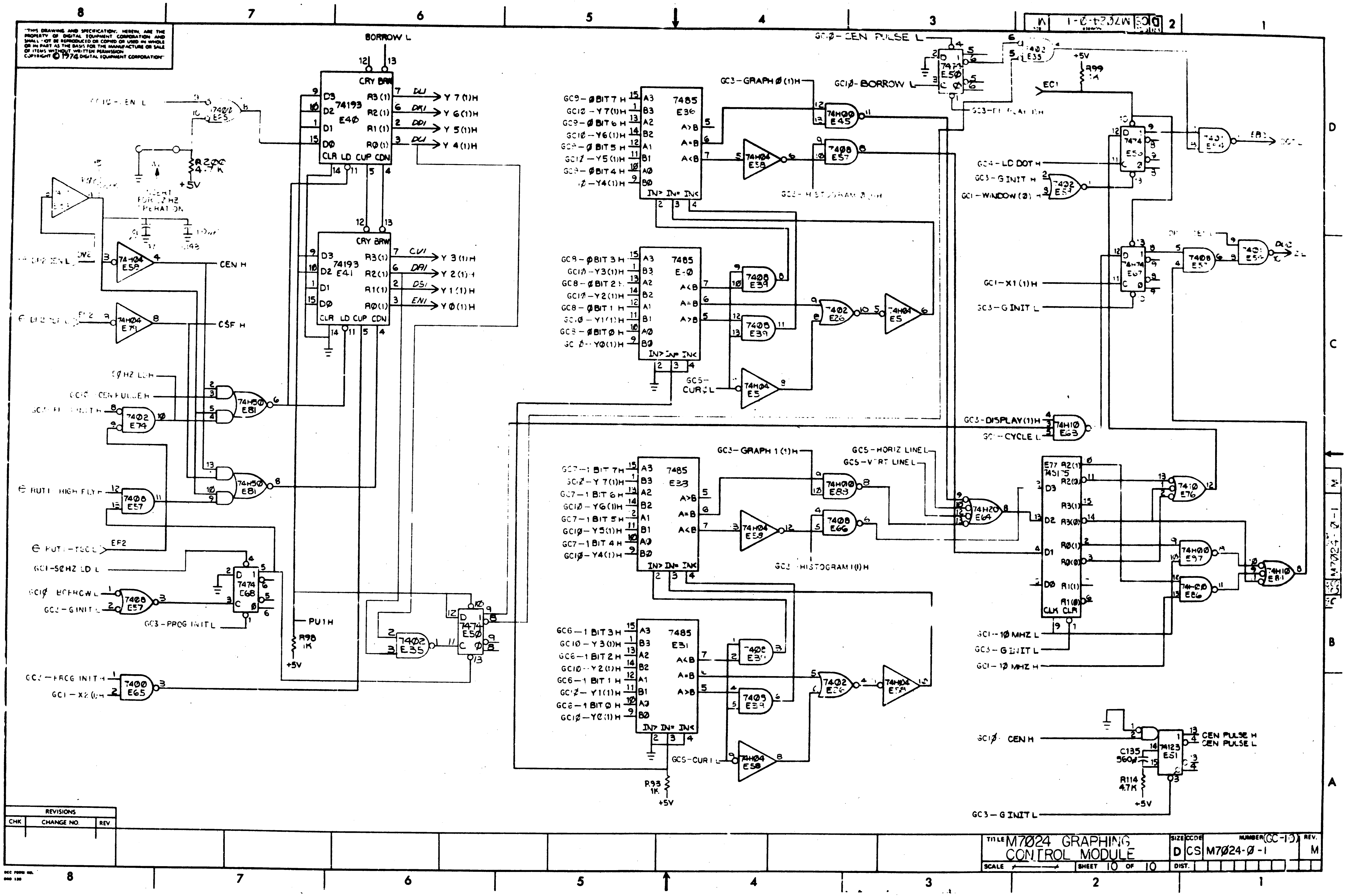


REVISIONS		
CHK	CHANGE NO	REV

TITLE M7Ø24 GRAPHING CONTROL MODULE

SIZE D | CODE CS | NUMBER M7Ø24-Ø-1 | REV. M

SCALE — SHEET 9 OF 10



TITLE M7024 GRAPHING CONTROL MODULE

SIZE D | CODE CS | NUMBER M7024-Ø-1 (GC-10) | REV. M

SHEET 10 OF 10

digital

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