

FIELD MAINTENANCE PRINT SET

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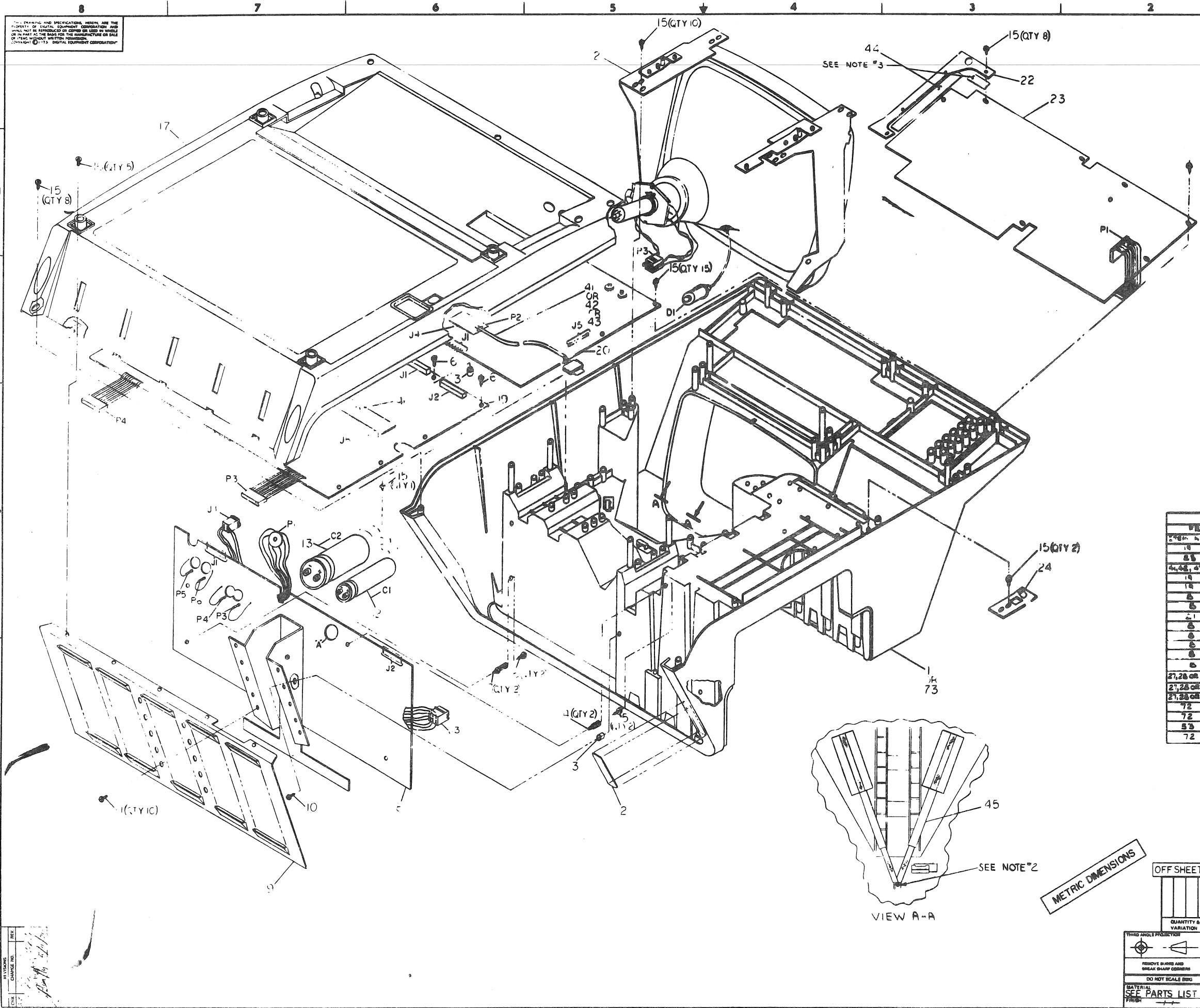
VT52 PRINT
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ROM UART AND TIMING
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KEYBOARD VT51/VT50 II
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TRANSFORMER ASSY
VT52 EIA CARD AND
CABLE ASSEMBLY
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CURRENT LOOP TO 283B
PLUG
TRANSFORMER ASSEMBLY
CABLE, EXTENSION
SHIPPING LIST
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20 MA, CURRENT LOOP
8K CHARACTER GENERATOR
CABLE, PRIMARY POWER

VT52-AA
VT52-AB
VT52-AC
VT52-AE
VT52-AF
VT52-AH
VT52-CA
VT52-CB
VT52-CC

Digital Equipment Corporation

MPØØØ35

DRB 124

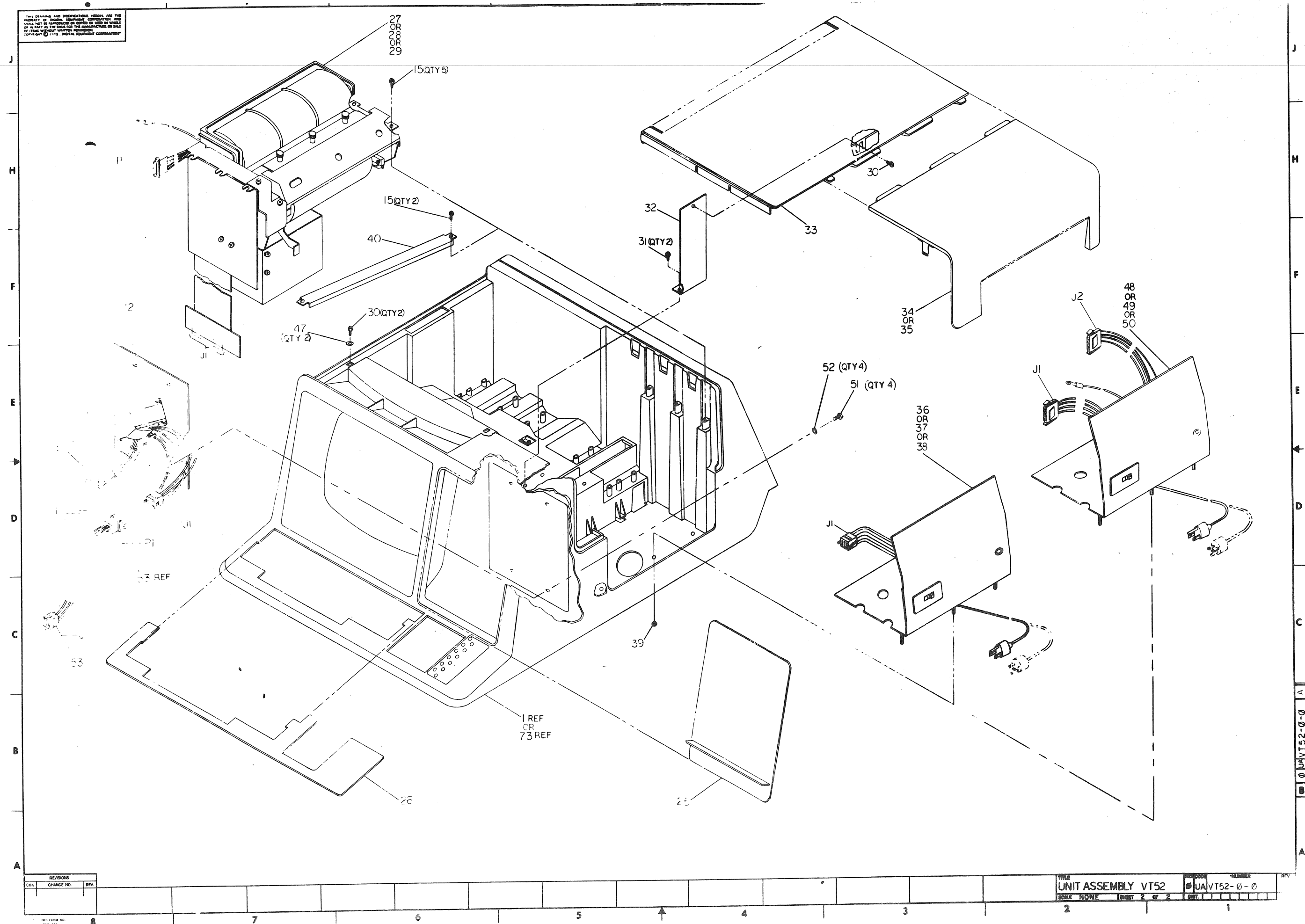


- NOTES:
1. FOR DRAWING DIRECTORY REFER TO B-DD-VT52-0
 2. MOUNT TO SHELL WITH NUT, SCREW, AND WASHER SUPPLIED WITH CRT GROUNDING ASSY. (ITEM#45).
 3. USE DOUBLE COATED TAPE (ITEM#) BETWEEN MTK REARLET KEYBD RIGHT (ITEM#22) AND KEYBOARD VT51/VT50H (ITEM#23)

LEGEND	
NUMBER	DESCRIPTION
VT52-AH	RIGHT LOOP 115V 60 HZ
VT52-AB	CURRENT LOOP 800/800V, 50/60 HZ
VT52-AC	CURRENT LOOP 100/100V, 50/60 HZ
VT52-AD	8 1/2" 115V, 60 HZ
VT52-AE	8 1/2" 200/200V, 50/60 HZ
VT52-AF	8 1/2" 100/100V, 50/60 HZ
VT52-AG	2000 AHS 170V, 60 HZ
VT52-AH	2000 AHS 200/200V, 50/60 HZ
VT52-AI	2000 AHS 100/100V, 50/60 HZ
VT52-AJ	2000 AHS 100/100V, 50/60 HZ
VT52-AK	2000 AHS 100/100V, 50/60 HZ
VT52-AL	2000 AHS 100/100V, 50/60 HZ
VT52-AM	2000 AHS 100/100V, 50/60 HZ
VT52-AN	2000 AHS 100/100V, 50/60 HZ
VT52-AO	2000 AHS 100/100V, 50/60 HZ
VT52-AP	2000 AHS 100/100V, 50/60 HZ
VT52-AQ	2000 AHS 100/100V, 50/60 HZ
VT52-AR	2000 AHS 100/100V, 50/60 HZ
VT52-AS	2000 AHS 100/100V, 50/60 HZ
VT52-AT	2000 AHS 100/100V, 50/60 HZ
VT52-AU	2000 AHS 100/100V, 50/60 HZ
VT52-AV	2000 AHS 100/100V, 50/60 HZ
VT52-AW	2000 AHS 100/100V, 50/60 HZ
VT52-AX	2000 AHS 100/100V, 50/60 HZ
VT52-AY	2000 AHS 100/100V, 50/60 HZ
VT52-AZ	2000 AHS 100/100V, 50/60 HZ

WIRE TABLE				
ITEM NO.	CONN	ITEM NO.	CONN	REMARK
18	J1	25	J1	ALL 1"
25	P1	26	J2	
4, 25, 26	P2	27	J4	
19	P4	28	J1	
18	P3	29	J2	
2	P1	21	CRT	
5	J4	21	P3	
21	21	5	MOE "A"	
5	P5	15	C2-	
5	P6	3	C2+	
5	P4	18	C1-	
5	P3	18	C1+	
5	J3	36, 57, 58	J1	ALL WIRE
27, 28, 29	J1	19	J2	454-CC
27, 28, 29	OND	36 CRT	OND	CONV
27, 28, 29	P1	48, 49, 50	J1	250V
72	P2	48, 49, 50	J2	
72	J1	53	P1	
53	J1	6	J3	
72	OND	48, 49, 50	OND	LOWEST ONLY
	L48			

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REVISIONS		
CHK	CHANGE NO.	REV

TITLE		PART NUMBER	
UNIT ASSEMBLY VT52		☒ UA	VT52-6-0
SCALE NONE	SHEET 2 OF 2	REV.	

TITLE		PART NUMBER	
UNIT ASSEMBLY VT52		☒ UA	VT52-6-0
SCALE NONE	SHEET 2 OF 2	REV.	

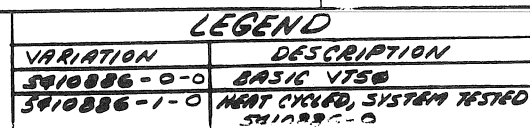
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ITEM NO.	PART NO.	DESCRIPTION	VT52	VT51	VT50	VT49	VT48	VT47	VT46	VT45	VT44	VT43	VT42	VT41	VT40	VT39	VT38	VT37	VT36	VT35	VT34	VT33	VT32	VT31	VT30	VT29	VT28	VT27	VT26	VT25	VT24	VT23	VT22	VT21	VT20	VT19	VT18	VT17	VT16	VT15	VT14	VT13	VT12	VT11	VT10	VT9	VT8	VT7	VT6	VT5	VT4	VT3	VT2	VT1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
1	E-MD-7411540-0-0	SHELL VT50	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

REVISIONS		REV.	CHANGE NO.	VT52-00002
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DRN. K. DAVIS	10/17/75	FIRST USED ON	
CHK'D SDR	10/17/75	TITLE	UNIT ASSY
ENG. M. J. JONES	10/17/75	VT52	
PROJ. ENG. M. J. JONES	10/17/75		
PROD. M. J. JONES	10/17/75		
NEXT HIGHER ASSY.			
B-DD-VT52-0	SIZE	CODE	NUMBER
SCALE	C	PL	VT52-0-0
SHEET 1 OF 2	DIST.		REV. A

1. THERE IS NO ETCH BETWEEN T1 AND D33
2. ETCH & PUNCH/DRILL FOR T05 AND T0220
3. ~~CURRENT LOOP 1/8 INCH LENGTH 22 AWG WIRE~~
4. ~~NO NEED FOR 1/8 INCH SPACER~~
5.  MUST BE CONNECTED TO A POINT GROUND
6. ECO*5 IS IMPLEMENTED ONLY ON BOARDS WHERE FOCUSING IS A PROBLEM.



DCS	410836-01	T
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Mr. Morgan	15-15-75
W. H. LESEY	
5-10-86-0001	N
W. H. LESEY	
5-10-86-0002	D
W. H. LESEY	
5-10-86-0003	B
W. H. LESEY	
5-10-86-0004	C
W. H. LESEY	
5-10-86-0005	D
W. H. LESEY	
5-10-86-0006	D
W. H. LESEY	
5-10-86-0007	D
W. H. LESEY	
5-10-86-0008	D
W. H. LESEY	
5-10-86-0009	D
W. H. LESEY	
5-10-86-0010	D
W. H. LESEY	
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W. H. LESEY	
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5-10-86-0072	D
W. H. LESEY	

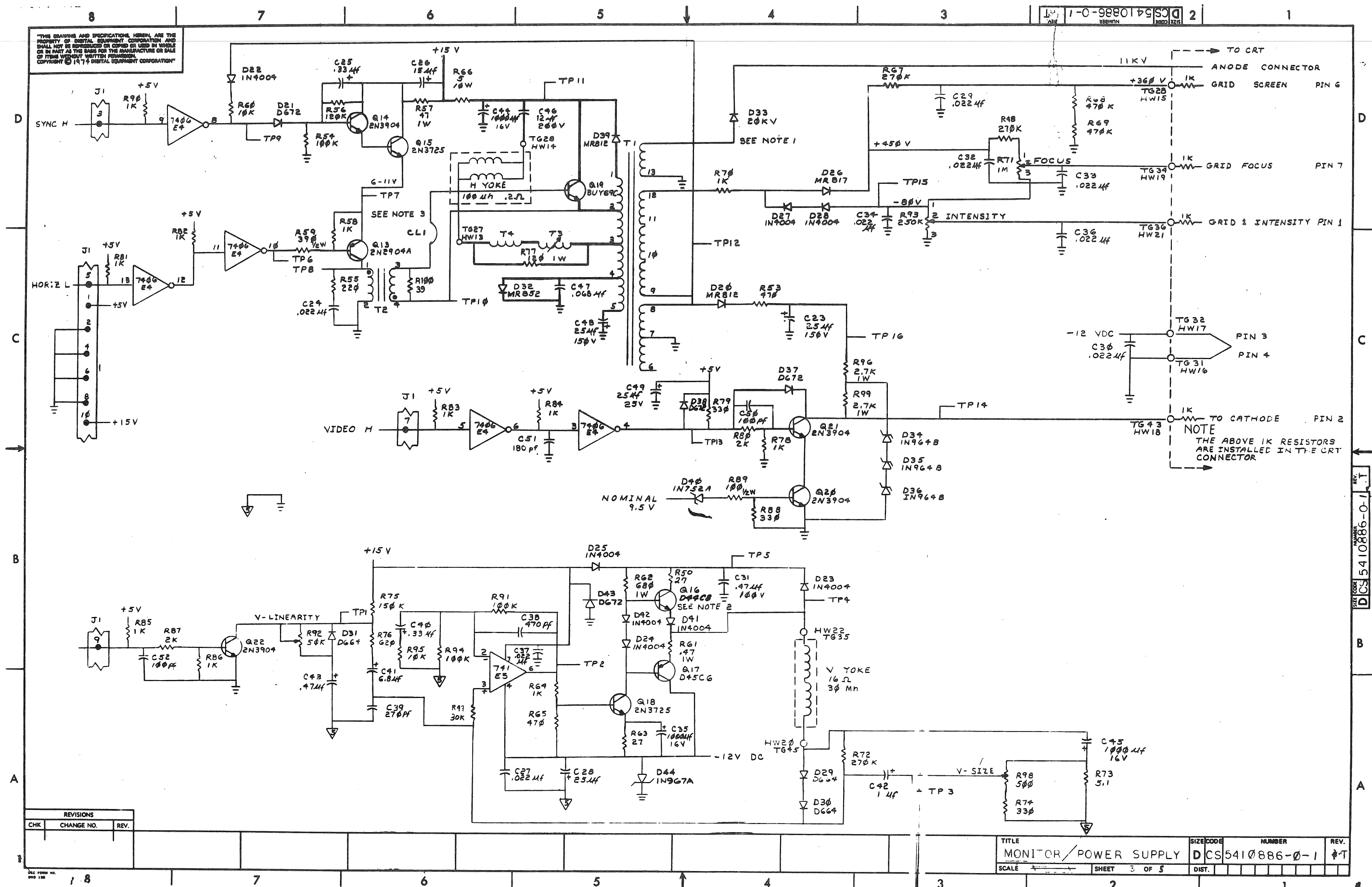
FIRST USED ON OPTION MODEL		QTY		REF. DESIGNATION		DESCRIPTION		PART NO.		REV.	
VT50		ETCH BOARD REV		D		PARTS LIST					
						DRN		DATE		digital EQUIPMENT CORPORATION WILMINGTON, MASSACHUSETTS	
						CHK'D		DATE		TITLE MONITOR POWER SUPPLY	
						ENG		DATE			
						PROJ. ENG		DATE			
						PROD.		DATE			
						NEXT HIGHER ASSY					
DEC NO		EIA NO		DEC NO		EIA NO		SIZE/CODE		NUMBER	
								D/C		5410820-0-1	
SEMICONDUCTOR CONVERSION CHART						SCALE		NONE		REV.	
						SHEET		OF 5		DIST	

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REVISIONS				REVISIONS				REVISIONS				REVISIONS			
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.	CHK
EV	5410886-00012	P		5410886-00013	R	EV	5410886-00014	S		5410886-00015	T				
J. Davis 21 April 76				R. Parker 9 June 76				G. Parker 25 JUN 76				J. Parker 28 Sep 76			
M. WHITTLESEY				M. WHITTLESEY				M. WHITTLESEY				M. WHITTLESEY			
K. Parker 5-16-76				K. Parker 6-16-76				K. Parker 7-8-76				M. Parker 10-18-76			

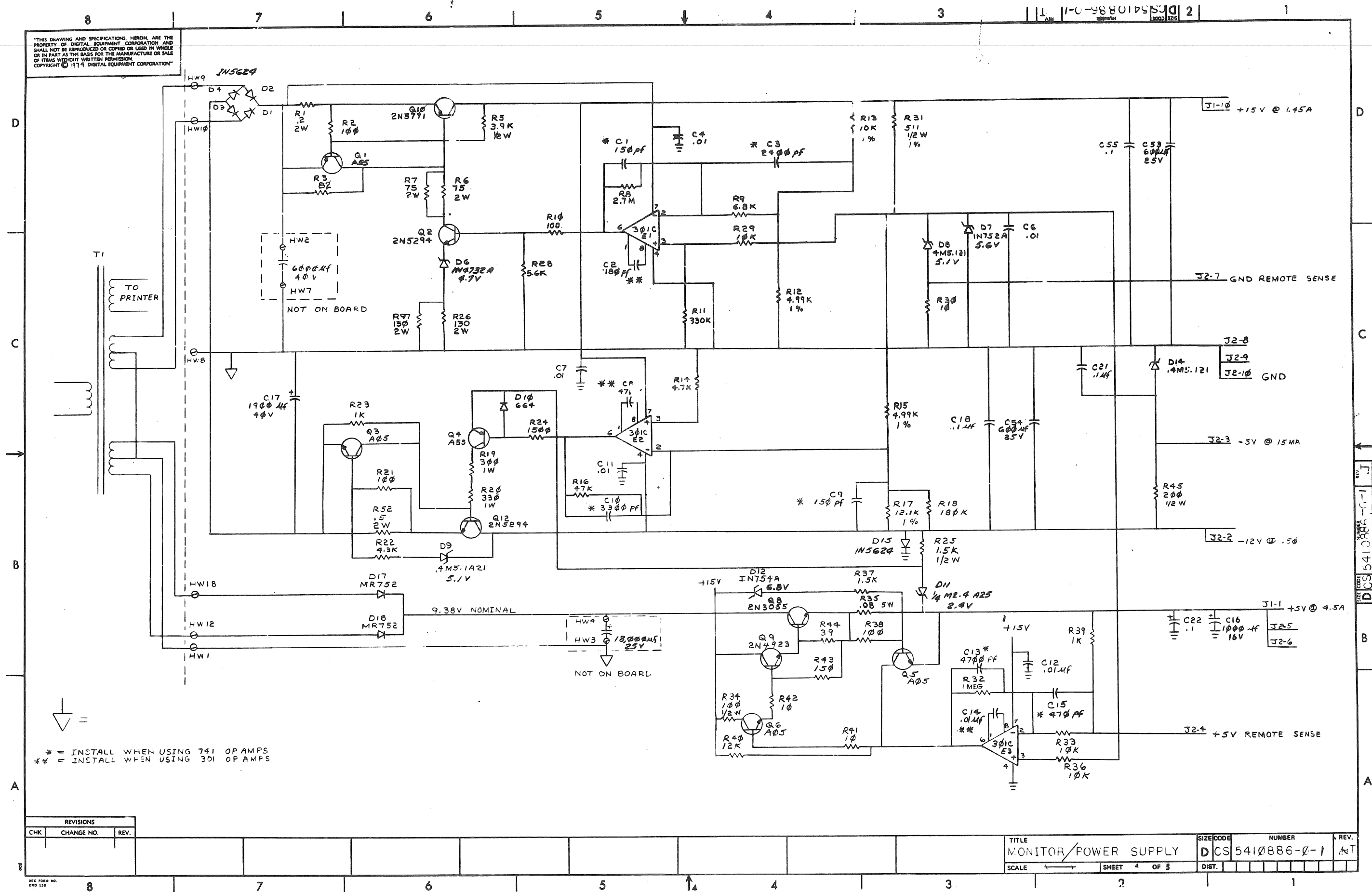
QTY	REF	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.	QTY	REF	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	T1	TRANS AT 2072 (FLY BACK XFMR)	16-11886	116	1	R76	RES. 620 1/4W 5%	1303178	55		
1	T2	TRANS DRIVER XFMR U9737 (7.5:1)	16-11887	117	13	R3723, 90, 50, 81, 84, 84, 70, 82, 78, 83, 85, 86	RES. 1K 1/4W 5%	1300365	56		
1	T4	TRANS AT 4072 (LINEARITY COIL)	16-11889	118	2	R80, 87	RES. 2K 1/4W 5%	1302388	57		
1	T3	TRANS U9934 (SIZE COIL)	16-11890	119	5	R29, 33, 38, 60, 95	RES. 10K 1/4W 5%	1300479	58		
1		CRT CORR. (WITH 4) 1K 1/2W RES.	1212127	120	3	R94, 91, 54	RES. 100K 1/4W 5%	1302466	59		
1	E4	IC DEC 7400	1910741	121	1	R56	RES. 120K 1/4W 5%	1300539	60		
1	E5	IC DEC 741 OP-AMP	1910298	122	1	R75	RES. 150K 1/4W 5%	1302396	61		
3	E1, E2, E3	IC DEC LM301C	1910282	123	2	R68, R69	RES. 470K 1/4W 5%	1302398	62		
20		F PINS	980-9807	124	1	R62	RES. 680 1W 5%	1300346	63		
1		HEAT SPREADER	7412849	125	2	R72, 87, R48	RES. 270K 1/4W 10%	1301310	64		
22	W01-W022	TERMINAL, SOLDERLESS, CRIMP	9009746	126	2	R53, 85	RES. 470 1/4W 5%	1300316	65		
97	W01-W03, W06-W06, W09, W59, W80	JUMPERS & #22 WIRE	9107560-1	127	1	R77	RES. 120 1W 5%	1301838	66		
1		SCR, PHL HD PAN #6-32x.37 LG	9006022-1	128	2	R34, 89	RES. 100 1/2W 5%	1300228	67		
4		TERMINAL RING TONGUE (RED)	9007930	129	2	R98, 99	RES. 2.7K 1W 10%	1309023	68		
W/A		WIRE #18 AWG STRD (BLK)	9107360-00	130	1	R1	RES. .2 3W 3% W/W	1311604	69		
W/A		WIRE #18 AWG STRD (RED)	9107360-22	131	1	R35	RES. .08 5W 3% W/W	1311603	70		
1		NUT, KEPS #6-32	9008185	132	4	R2, 21, 38, 10	RES. 100 1/4W 5%	1300229	71		
1		HARNESS CRT	2-1A-70120%-0-0	133	2	R97, R26	RES. 130, 2W 5%	1304832	72		
1		HARNESS YOKE	1-1A-7011187-00	134	1	R32	RES. 1 MEG 1/4W 5%	1309595	73		
1		HARNESS POWER SUPPLY	1-1A-7011186-00	135	1	R0	RES. 6.8K 1/4W 5%	1301423	74		
6		SCR, PPH #2-56 X 1/2" LG	9006005-1	136	1	R11	RES. 330K 1/4W 5%	1302091	75		
8		NUT, #2-36	9006555	137	1	R13	RES. 10K 1/8W 1%	1303312	76		
2		INSULATOR, SILICONE RUBBER	12132071-02	138	2	R12, 15	RES. 4.98K 1/8W 1%	1305324	77		
2		INSULATOR, SILICONE RUBBER	12132071-06	139	1	R31	RES. 511 3/4W 1%	1300324	78		
W/A		COMPOUND, THERMAL	9008268	140	1	R52	RES. 0.5 3W 3%	1311811	79		
9		WASHER, #2 INT TOOTH	9006631	141	1	R18	RES. 47K 1/4W 5%	1302177	80		
W/A (6MM)		TUBING, TEPHLON, 12 AWG	9107301-10	142	1	R14	RES. 4.7K 1/4W 5%	1300447	81		
2		WASHER, FLAT, SS	9008877	143	1	R17	RES. 12.1K 1/8W 1%	1303313	82		
8		SCR, PPH #2-56 X 7/16" LG	9006004-1	144	1	R45	RES. 200 1/2W 5%	1302381	83		
3	T05 TRANS. 3.0ORS	TRANSIPADS	9008206	145	1	R5	RES. 3.9K 1/2W 5%	1300443	84		
					2	R22	RES. 4.3K 1/4W 5%	1302389	85		
					2	R37, 24	RES. 1.5K 1/4W 5%	1300391	86		
					1	R40	RES. 12K 1/4W 5%	1300488	87		
					2	R8, 7	RES. 75 2W 5%	1303099	88		
					1	R8	RES. 2.7M 1/4W 5%	1309680	89		
					3	R30, 42, 41	RES. 10 1/4W 5%	1301317	90		
					1	R3	RES. 82 1/4W 5%	1301477	91		
					1	R43	RES. 150 1/4W 5%	1300250	92		
					2	R44, R100	RES. 30 1/4W 5%	1302377	93		
					1	R18	RES. 100K 1/4W 5%	1302387	94		
					1	R19	RES. 300 1W 5%	1300282	95		
					1	R25	RES. 1.5K 1/2W 5%	1300394	96		
					1	R20	RES. 330 1W 5%	1300287	97		
					1	R98	RES. 500 POT BLUE	13-11883-00	98		
					1	R71	RES. 1 MEG POT CLEAR	13-11883-02	99		
					1	R92	RES. 90K POT RED	13-11883-01	100		
					1	R33	RES. 250K	13-11844	101		
					1	R86	RES. 5.1K, 10%, 10W	13-11842	102		
					1	R49	RES. 30K 1/4W 5%	13-02394	103		
					1	Q17	TRANS. D48C8	1510414	104		
					2	Q13, 18	TRANS. 2N3720	1510959	105		
					1	Q13	TRANS. 2N2904A	1501913	106		
					4	Q14, 20, 21, 22	TRANS. 2N3904	1500524	107		
					1	Q10	TRANS. 2N3771	1509281	108		
					2	Q1, 4	TRANS. M1AAB6	1510706	109		
					2	Q2, 12	TRANS. 2N5284	1510977	110		
					3	Q5, 6, 3	TRANS. M1AAB6	1510706	111		
					1	Q8	TRANS. 2N3905	1500810	112		
					1	Q9	TRANS. 2N4823	1500804	113		
					1	Q16	TRANS. D44C8	1510421	114		
					1	Q19	TRANS. D478C8	15-11882	115		

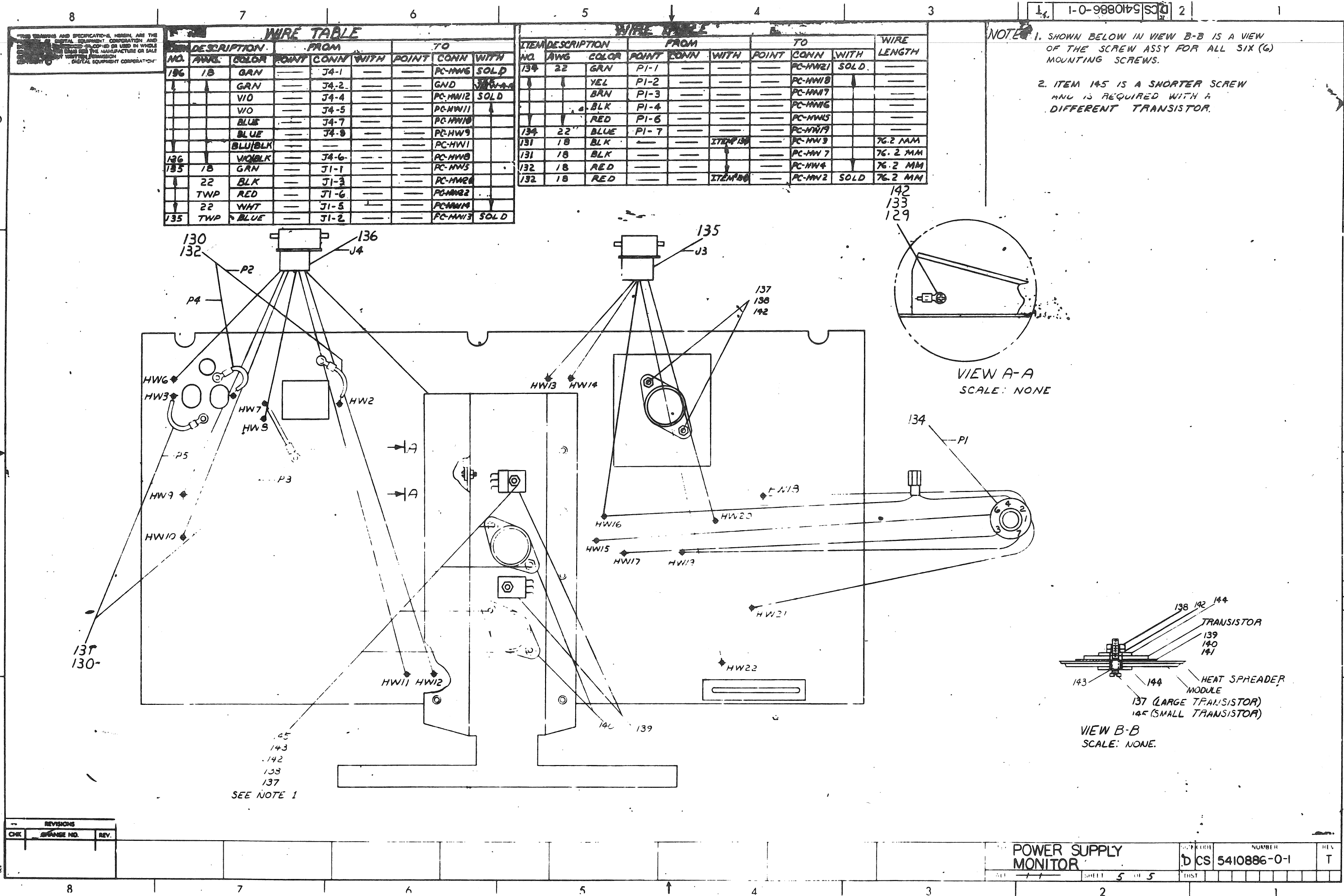
TITLE	MONITOR POWER SUPPLY	SIZE CODE	D	CS	5410886-0-1	REV.	FT
SCALE		SHEET	2	OF	5	DIST.	



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE MONITOR / POWER SUPPLY		SIZE CODE D CS	NUMBER 5410886-0-1		REV. 1-T
SCALE 1" = 1" (1:1)	SHEET 3	OF 5	DIST.		





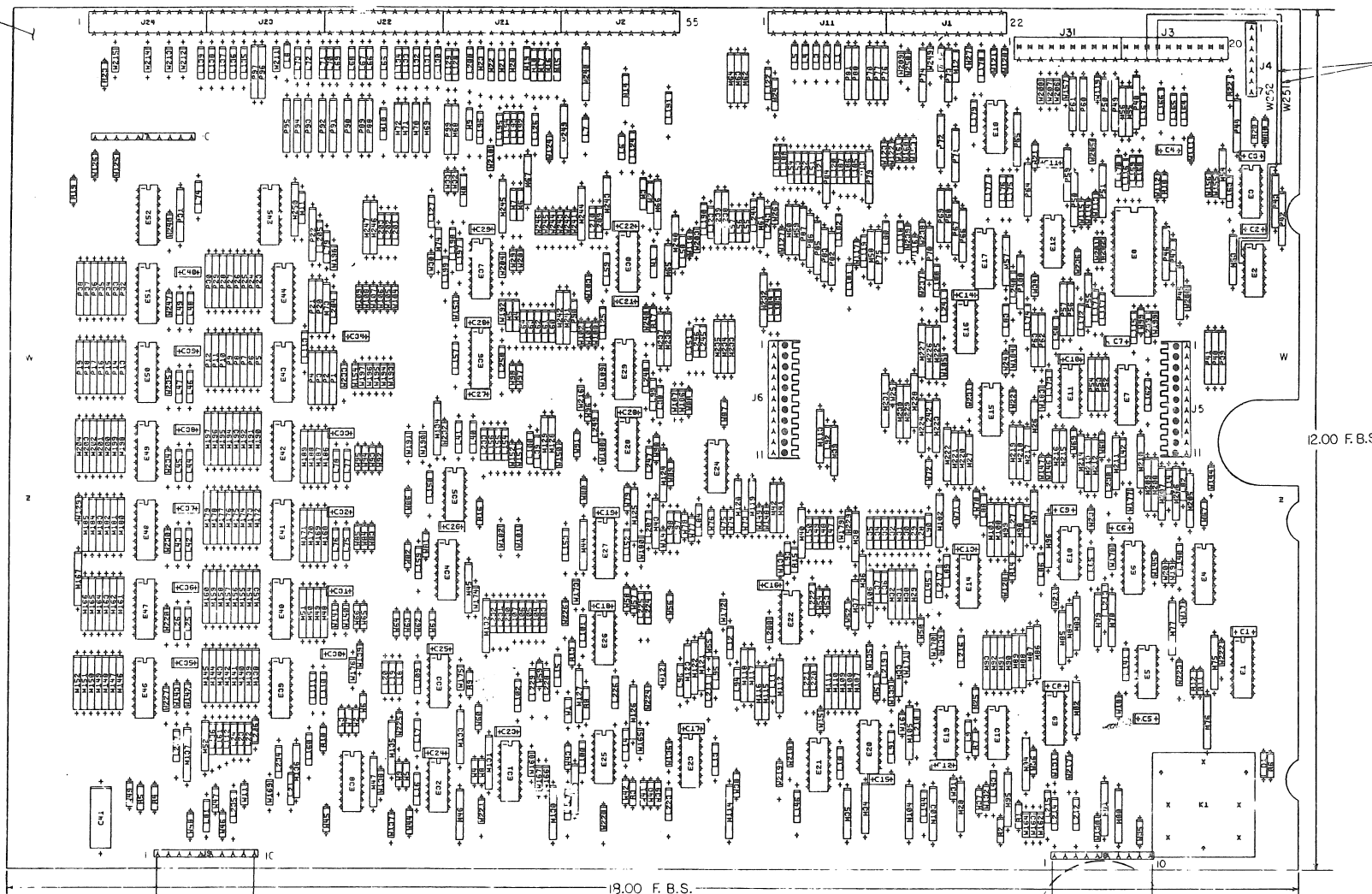
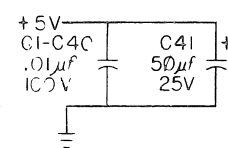
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NOTES:

- COMPONENTS NOT TO BE INSERTED: R8, R9.
- FOR VT51 (VARIATION -2/-3) E29 THRU E45 WILL BE DELETED. JUMPER WIRES W6 THRU W10 WILL BE DELETED AND JUMPER WIRES W1 THRU W5 WILL BE INSERTED.
- FOR UNITS WITH COPIER INSERT W251 & W252

LEGEND

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



SEE DETAIL A
SHEET 5 OF 5

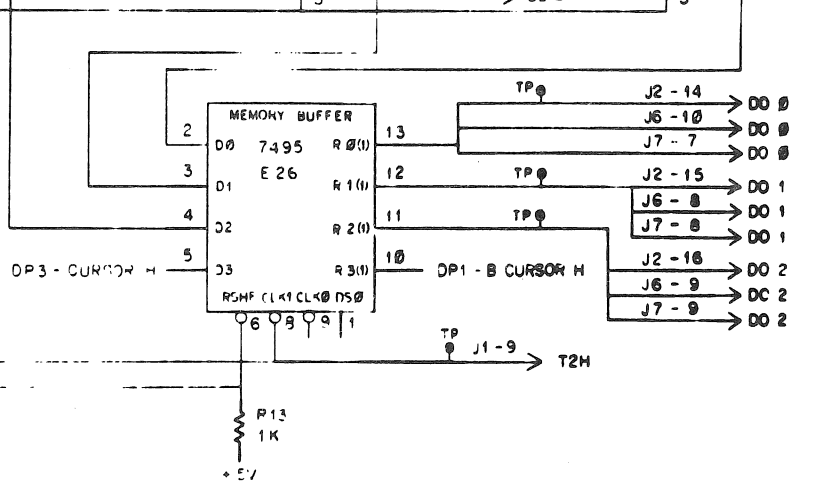
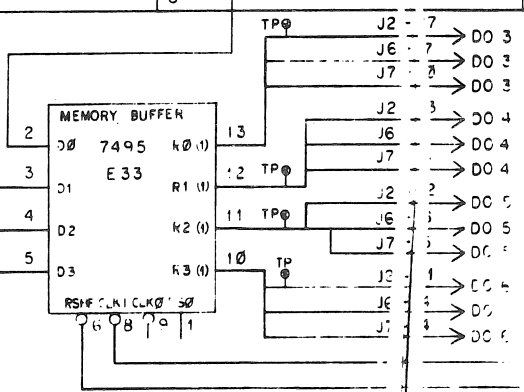
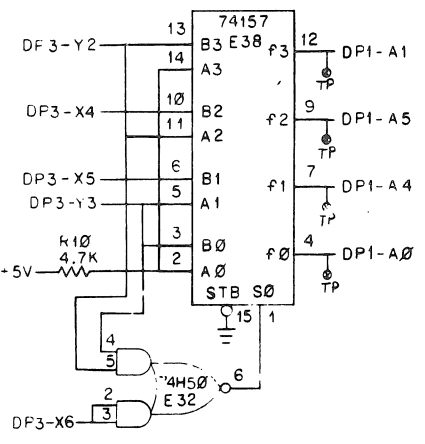
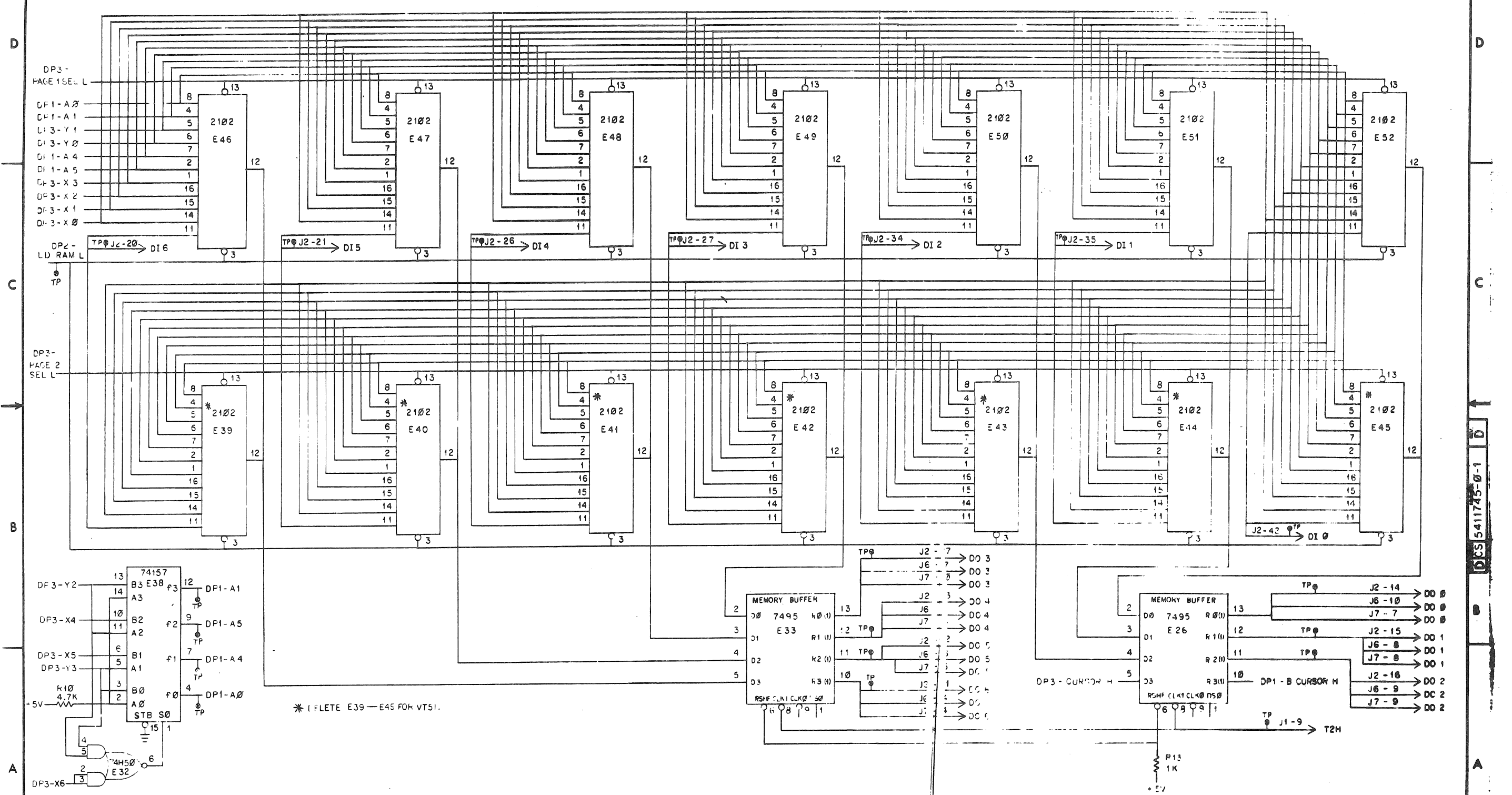
SEE B-PL-5411745-0-0

IC TYPE	GND	+5V
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		

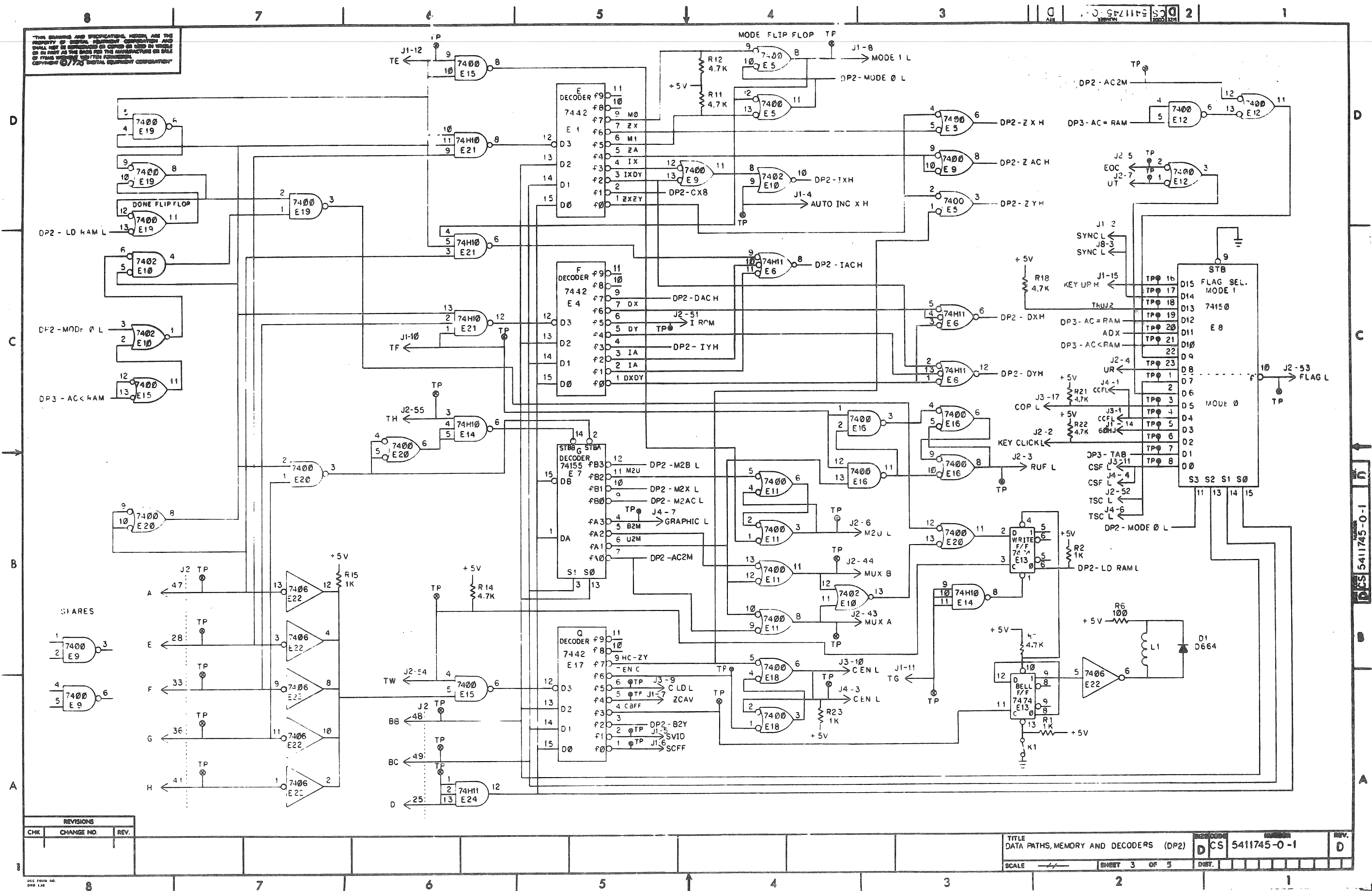
QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
FIRST USED ON OPTION MODEL				
VT51/VT52				
ETCH BOARD REV. A				
DRN. T. MISITANO DATE 7-14-75				
CHK'D. R. PUCCI DATE 7-20-75				
ENG. T. MISITANO DATE 9-24-75				
PROJ. ENG. M. MORGANSTERN DATE 9-24-75				
PROD. R. PUCCI DATE 9-24-75				
NEXT HIGHER ASSY				
TITLE				
DATA PATH, MEMORY AND DECODERS				
SIZE	CODE	NUMBER	REV.	
D	CS	5411745-0-1	D	
SEMICONDUCTOR CONVERSION CHART				
DEC. NO.	EIA NO.	DEC. NO.	EIA NO.	
SCALE 1 OF 5				
SHEET 1 OF 5				

digital

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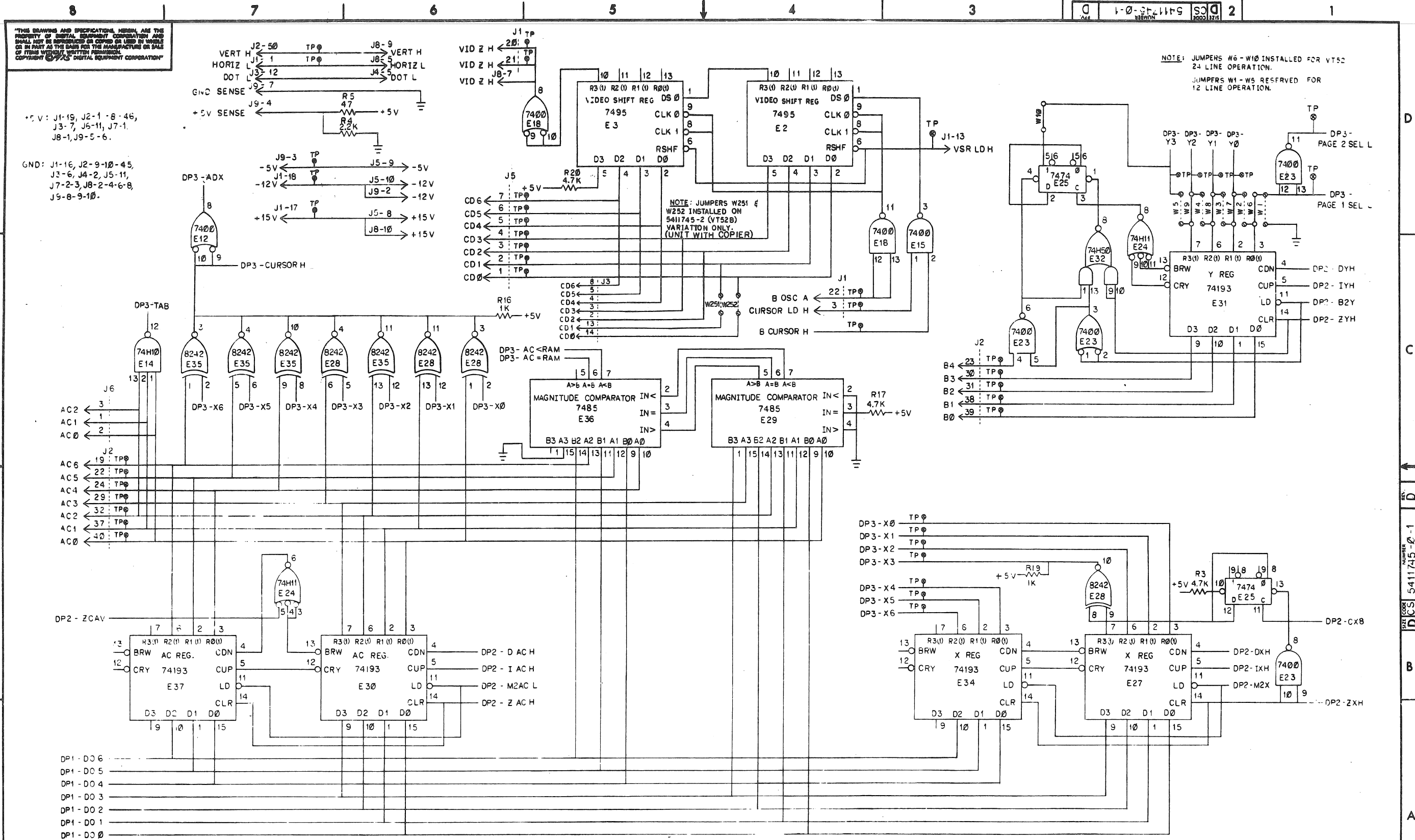
REVISIONS		
CHK	CHANGE NO.	REV.



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+5V: J1-19, J2-1-8-46,
J3-7, J6-11, J7-1,
J8-1, J9-5-6.

GND: J1-16, J2-9-10-45,
J3-6, J4-2, J5-11,
J7-2-3, J8-2-4-6-8,
J9-8-9-10.

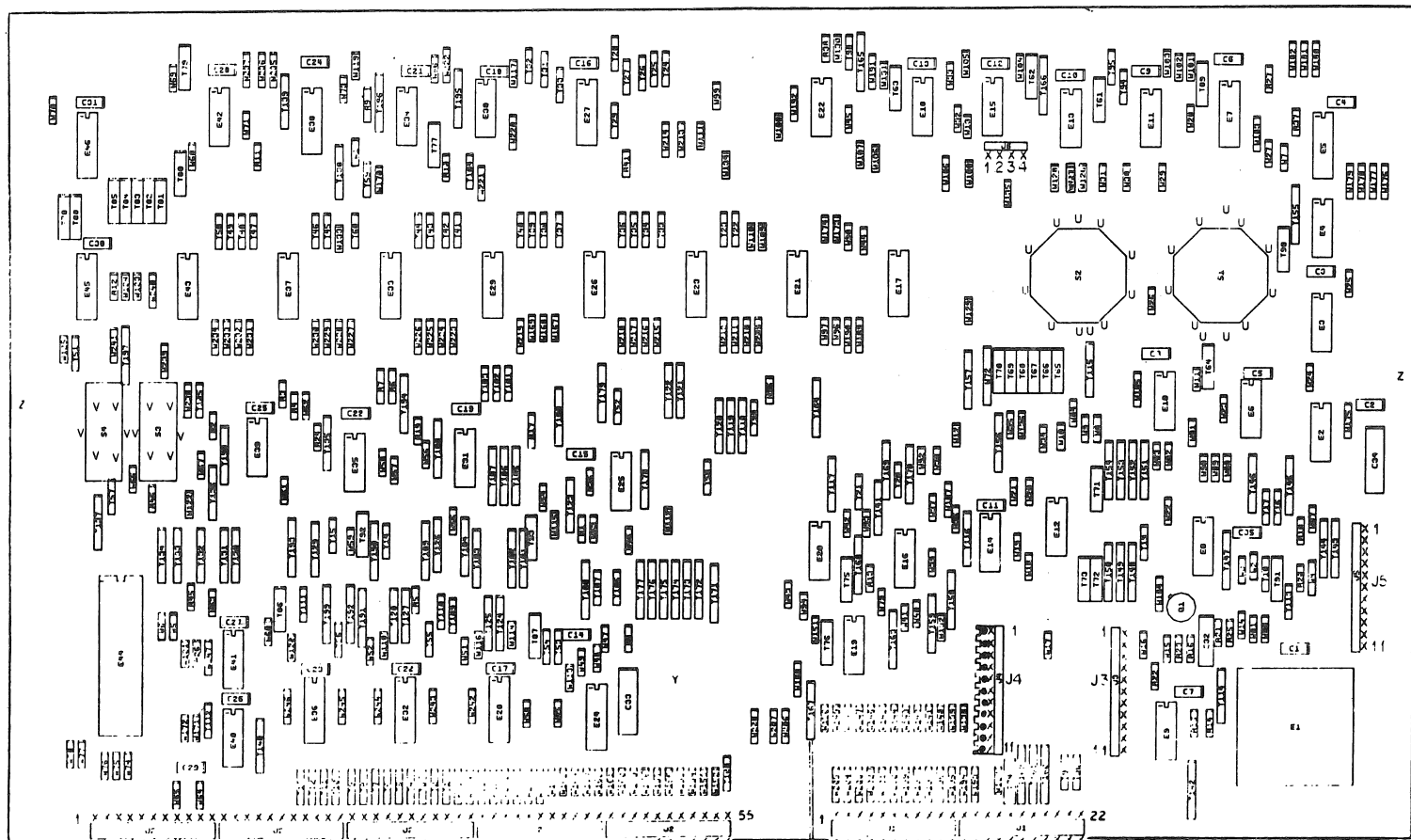


REVISIONS		
CHK	CHANGE NO.	REV.

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NOTES:

- COMPONENTS NOT TO BE INSERTED:
R28-R35, R39, R40, R42-R44, R47, R48
- OPTIONAL JUMPER WIRE: W1-W10.



DATA PATH CONN	
1	HORIZ L
2	SYNCL
3	CURSOR LDH
4	AUTO INCLX H
5	SVID
6	SCFF
7	ZCAV
8	MODE IL
9	T2H
10	TF
11	TC
12	VSR LDH
13	G0HJ
14	KEY UP H
15	GND
16	+15V
17	+5V
18	VIDNH
19	VIDNH
20	VIDNH
21	VIDNH
22	B OSC A

DATA PATH CONN	
1	+5V
2	KEY CLICK L
3	REF L
4	URF L
5	UT
6	MTU L
7	ECC L
8	GND
9	GND
10	GND
11	DO6
12	DO5
13	DO4
14	DO3
15	DO1
16	DO0
17	DO0
18	AC6
19	AC6
20	AC6
21	AC6
22	AC6

DOT X-OR CONN	
1	100V
2	100V
3	100V
4	100V
5	100V
6	100V
7	100V
8	100V
9	100V
10	100V
11	100V
12	100V
13	100V
14	100V
15	100V
16	100V
17	100V
18	100V
19	100V
20	100V
21	100V
22	100V

KEYBOARD CONN	
1	RELAY
2	RELAY
3	RELAY
4	RELAY
5	RELAY
6	RELAY
7	RELAY
8	RELAY
9	RELAY
10	RELAY
11	RELAY
12	RELAY
13	RELAY
14	RELAY
15	RELAY
16	RELAY
17	RELAY
18	RELAY
19	RELAY
20	RELAY
21	RELAY
22	RELAY

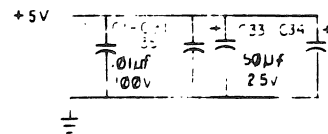
LEGEND

VARIATION	DESCRIPTION
5411743-00	VT52 PRINTER ROMS
5411743-01	HEAT AND TEMPERATURE SENSORS
5411743-02	VT55 BOARD
5411743-03	HEAT AND TEMPERATURE SENSORS 5411743-02
5411743-04	VT55 BOARD PRINTER ROMS
5411743-05	HEAT AND TEMPERATURE SENSORS 5411743-04
5411743-06	VT55 BOARD
5411743-07	HEAT AND TEMPERATURE SENSORS 5411743-06

JUMPER WIRE TABLE

W1	W2	W3	W4
OUT	OUT	OUT	OUT
IN	IN	IN	IN
OUT	OUT	OUT	OUT
IN	IN	IN	IN

SEE OFF SHEET PARTS LIST



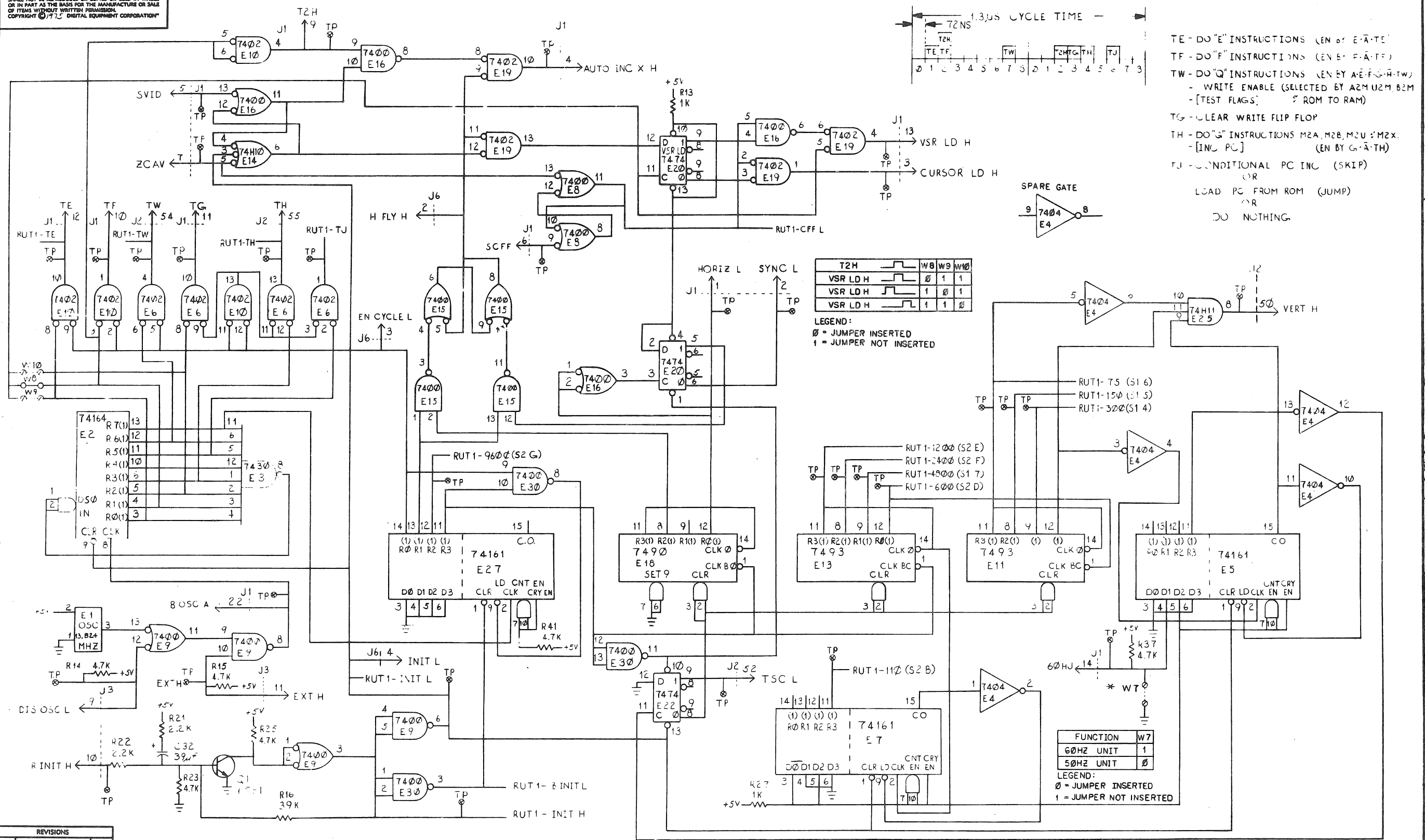
IC TYPE	GND	+5V
1402	3	1
6306A	8	16
74153	8	16
7490	10	5
7493	10	5
74161	8	16
IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.		
IC PIN LOCATIONS		

REV.	CHANGE NO.	REV.
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
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42	42	42
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45	45	45
46	46	46
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92	92	92
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95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
FIRST USED ON OPTION MODEL				
VT52				
ETCH BOARD REV. B				
PARTS LIST				
DRN. TOP MISTANO DATE 4-16-75				
CHKD. H. PUCCI DATE 4-22-75				
ENG. TOM MISTANO DATE 4-22-75				
PROJ. ENG. M. MORGANSTERN DATE 4-22-75				
PROD. R. PUCCI DATE 4-22-75				
NEXT HIGHER ASSY				
SCALE 1 OF 4				
SEMICONDUCTOR CONVERSION CHART				
DEC NO.	EIA NO.	DEC NO.	EIA NO.	REV.
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	11
12	12	12	12	12
13	13	13	13	13
14	14	14	14	14
15	15	15	15	15
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18	18	18	18	18
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95	95	95	95	95
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97	97	97	97	97
98	98	98	98	98
99	99	99	99	99
100	100	100	100	100

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1-0-5411743-002



TE - DO "E" INSTRUCTIONS (EN BY E-A-TE)
TF - DO "F" INSTRUCTIONS (EN BY F-A-TF)
TW - DO "Q" INSTRUCTIONS (EN BY A-E-F-G-H-TW)
- WRITE ENABLE (SELECTED BY A2M U2M B2M)
- [TEST FLAGS] ROM TO RAM
TG - CLEAR WRITE FLIP FLOP
TH - DO "G" INSTRUCTIONS M2A, M2B, M2U, M2X.
- [INC PC] (EN BY G-A-TH)
TJ - CONDITIONAL PC INC (SKIP)
OR
LOAD PC FROM ROM (JUMP)
OR
DO NOTHING

T2H	W8	W9	W10
VSR LD H	0	1	1
VSR LD H	1	0	1
VSR LD H	1	1	0

LEGEND:
0 = JUMPER INSERTED
1 = JUMPER NOT INSERTED

FUNCTION	W7
60HZ UNIT	1
50HZ UNIT	0

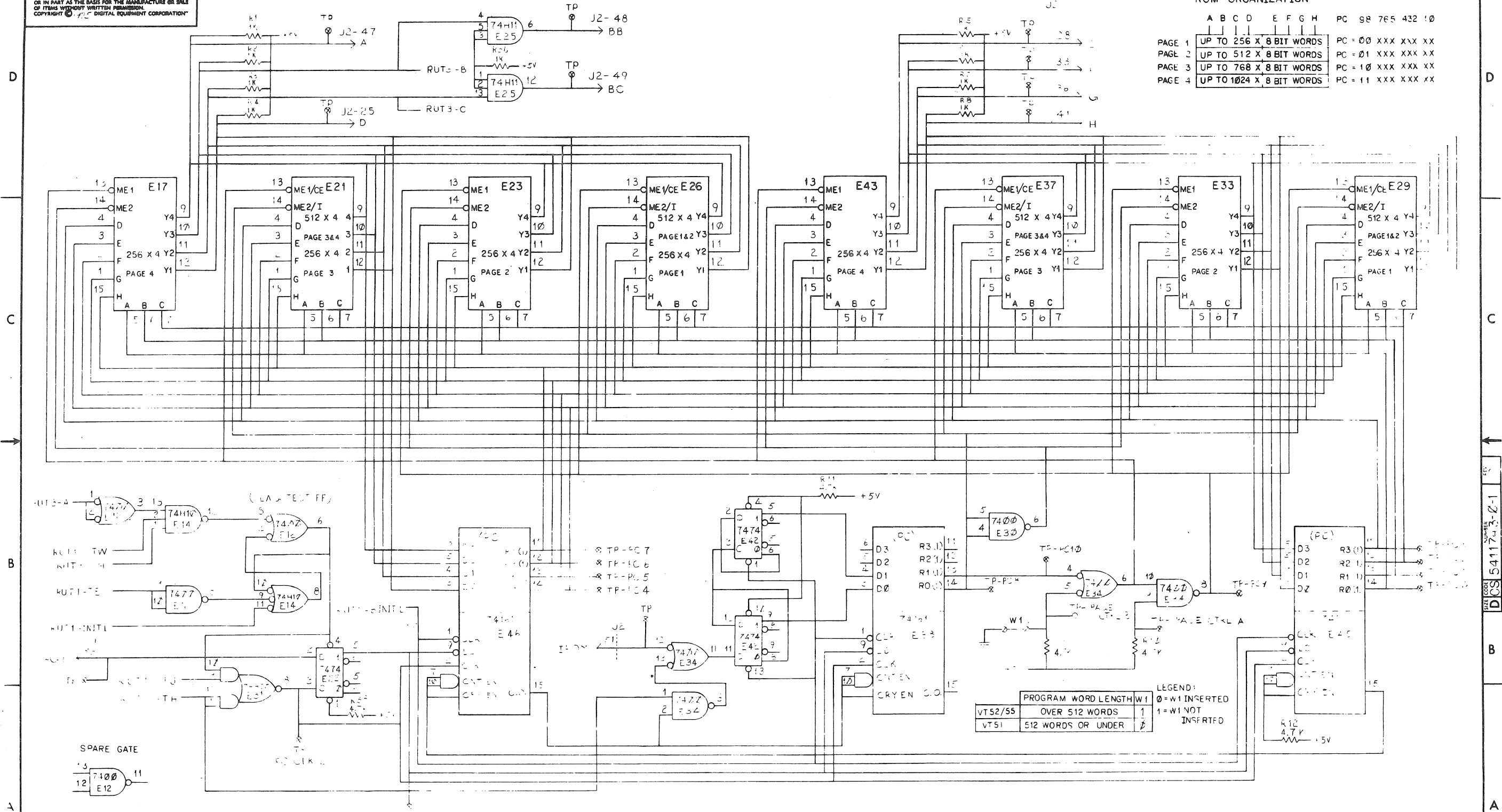
LEGEND:
0 = JUMPER INSERTED
1 = JUMPER NOT INSERTED

REVISIONS		
CHK	CHANGE NO.	REV.

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ROM ORGANIZATION

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



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER	REV.
ROM, UART & TIMING		D	CS	5411743-0-1	D
SCALE		SHEET	4 OF 4	DIST.	

REVISED		CHARGE NO.	REV.
VT50	00012	A	
REVISED & REDRAWN			
5. GEORGE 25 JAN 75			
R. DOANE			
R. DOANE			
70100659-0001 B			
f. 8 MAR 21 1975			
R. STRARD			

REVISED		CHARGE NO.	REV.
VT50	00012	A	
REVISED & REDRAWN			
5. GEORGE 25 JAN 75			
R. DOANE			
R. DOANE			
70100659-0001 B			
f. 8 MAR 21 1975			
R. STRARD			



1	DECAL, HIGH VOLTAGE	3610267	12
1	LOCKWASHER, INT. THX	9006463	11
4	SCREW, MACH. "6-32	9006022-1	10
1	LOCKWASHER, EXT. THX	9007643	9
MA	TAPE, GREEN	90078.7	8
MA	TAPE, GRAY, DUL	9007339	7
4	SCREW, TRUSS NUT, MACH	9006307-3	6
1	WIREFORM, CRT	1-2A-7A15B19-0-0	5
1	ASSEMBLY, YONE	2A-7A10090-0-0	4
4	SCREW, TRUSS NUT, MACH	9006307-3	3
REF	CONN, HIGH VOLTAGE		2
1	TUBE, CATHODE RAY	1211901	1

STATION	SUBSTATION	ITEM NO.																								
USE THE OTHERS SPECIFIED BELOW ARE IN WALLMOUNTS																										
AREA OF ELECTRICAL SYSTEM	CLASS OF ASSEMBLY (CHECK ONE)	WALL MOUNTS																								
CITY & COUNTY	GENERAL ☐	<table border="1"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr> <tr> <td>100</td><td>200</td><td>300</td><td>400</td><td>500</td><td>600</td><td>700</td><td>800</td><td>900</td><td>1000</td><td>1100</td><td>1200</td></tr> </table>	1	2	3	4	5	6	7	8	9	10	11	12	100	200	300	400	500	600	700	800	900	1000	1100	1200
	1	2	3	4	5	6	7	8	9	10	11	12														
100	200	300	400	500	600	700	800	900	1000	1100	1200															
PREFERRED ☒	<table border="1"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr> <tr> <td>10.1</td><td>10.2</td><td>10.3</td><td>10.4</td><td>10.5</td><td>10.6</td><td>10.7</td><td>10.8</td><td>10.9</td><td>10.10</td><td>10.11</td><td>10.12</td></tr> </table>	1	2	3	4	5	6	7	8	9	10	11	12	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	10.10	10.11	10.12	
1	2	3	4	5	6	7	8	9	10	11	12															
10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	10.10	10.11	10.12															
SUBSTATION NAME - 2-7		FIRST USED ON																								
CITY & COUNTY		VT50																								

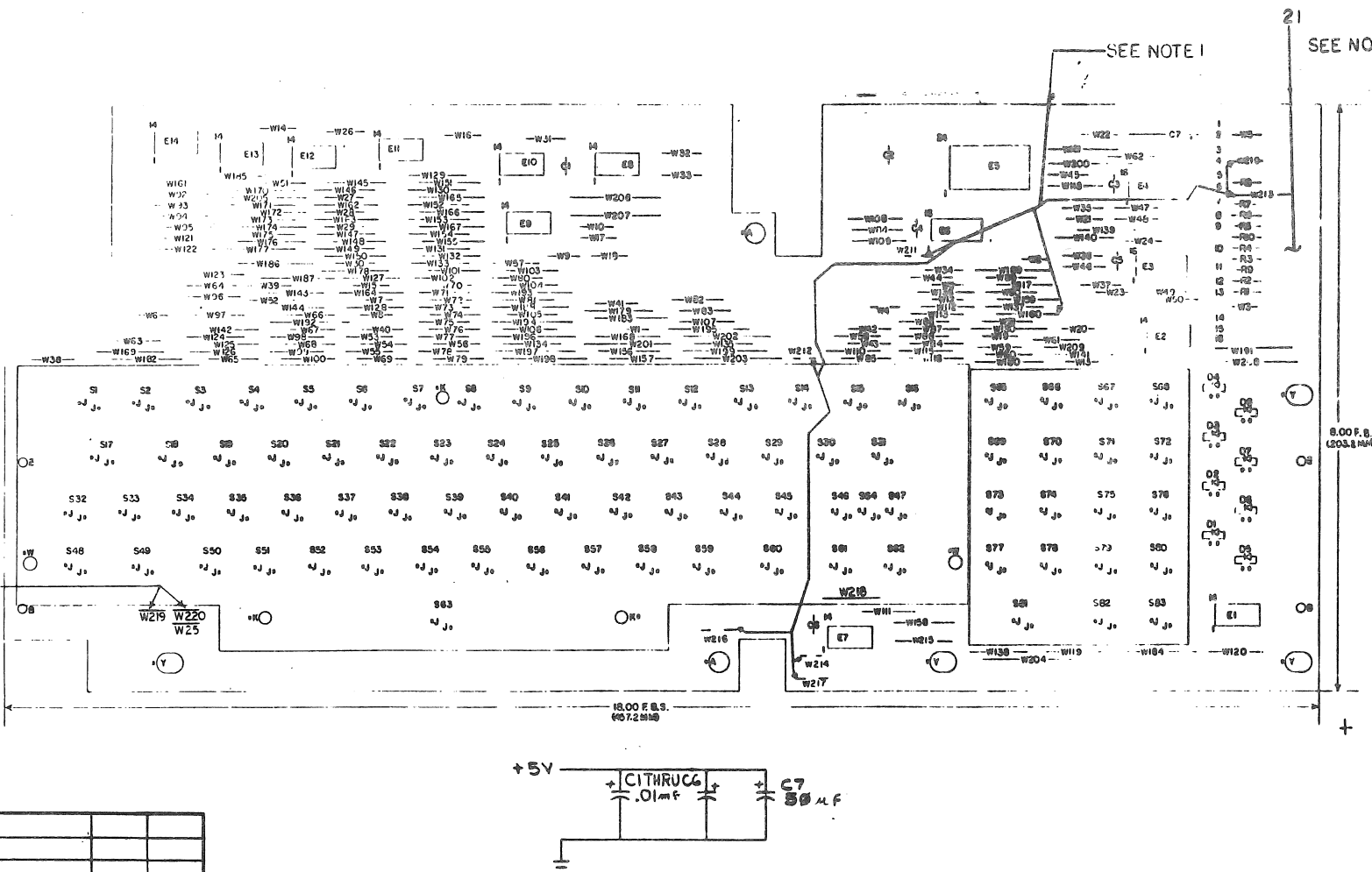
ISSN	R GIRARD	E-13-75	TITLE	
PUBL. DATE	APR 1975	E-3-75		
PUBD.	D. DEVINS	E-12-75		ASSEMBLY, CR
NEXT NUMBER ASSY.				
B-UA-VT50-6-0			SIZE	CODE
SCALE				NUMBER
			AD	7010859-C

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.
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NOTES:

1. OPTIONAL JUMPERS: SEE SHEET 2 FOR CONFIGURATION TABLE.
2. SEE SHEET 3 OF 5 FOR WIRE TABLE.
3. SEE SHEETS 4&5 FOR VARIATION KEYCAP PLACEMENT.
4. NOTE THAT THE BOM FOR ALL VARIATIONS (-0THRU-6) 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 VT50 H
5411170-3	HEAT CYCLED, SYSTEM-TESTED 5411170-2
5411170-4	VT52
5411170-5	HEAT CYCLED, SYSTEM-TESTED 5411170-4
5411170-6	VT761
5411170-7	HEAT CYCLED, SYSTEM-TESTED 5411170-6
5411170-8	VT52-W
5411170-9	HEAT CYCLED, SYS. TESTED 5411170-8



5411170-8	5411170-5	5411170-4	5411170-2	5411170-0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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IC TYPE	QTY	LOC.
DEC IC 7442	8	16
DEC IC 74175	8	16
DEC IC 74150	12	24
IC TYPE	QTY	LOC.
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.		
IC PIN LOCATIONS		

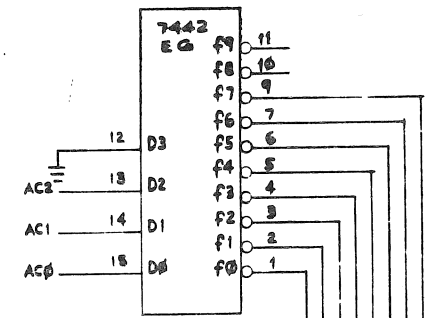
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PARTS LIST		SEMICONDUCTOR CONVERSION CHART	
DEC NO.	EIA NO.	DEC NO.	EIA NO.
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5411170-0-4	5411170-0-4	5411170-0-4	5411170-0-4
5411170-0-5	5411170-0-5	5411170-0-5	5411170-0-5
5411170-0-6	5411170-0-6	5411170-0-6	5411170-0-6
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5411170-0-75	5411170-0-75	5411170-0-75	5411170-0-75
5411170-0-76	5411170-0-76	5411170-0-76	5411170-0-76
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5411170-0-97	5411170-0-97	5411170-0-97	5411170-0-97
5411170-0-98	5411170-0-98	5411170-0-98	5411170-0-98
5411170-0-99	5411170-0-99	5411170-0-99	5411170-0-99
5411170-0-100	5411170-0-100	5411170-0-100	5411170-0-100

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

JUMPER	VT50H, J 5411170-2	VT52, 52-W 5411170-4 5411170-8	VT61/VT61 5411170-0 5411170-6
W16Q	IN	IN	OUT
W21Q	IN	IN	OUT
W211	IN	IN	OUT
W212	OUT	OUT	IN
W213	IN	IN	OUT
W214	OUT	IN	OUT
W216	OUT	IN	OUT
W217	OUT	OUT	IN
W219	IN	OUT	IN
W220	OUT	IN	OUT



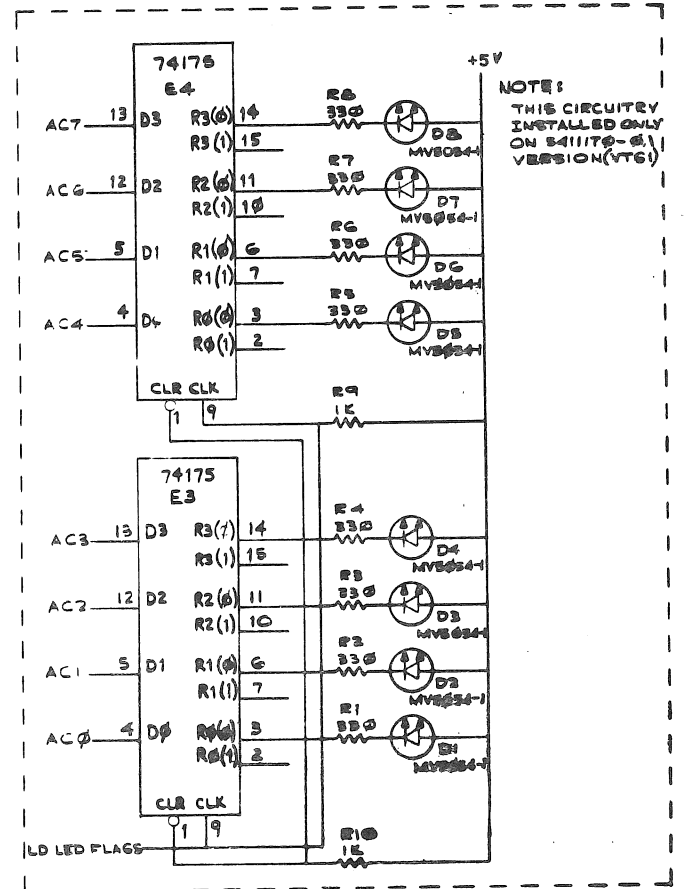
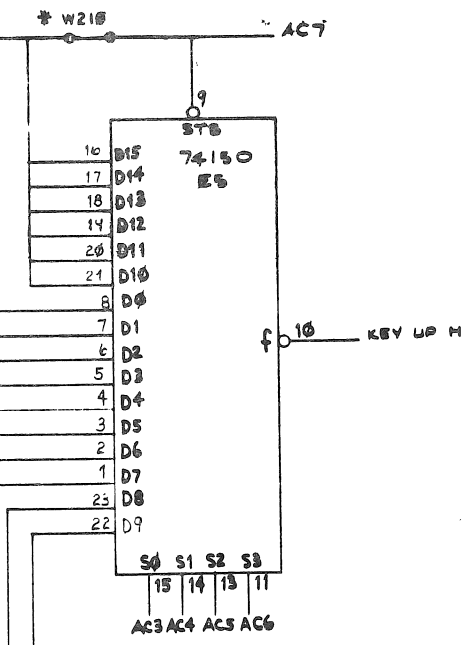
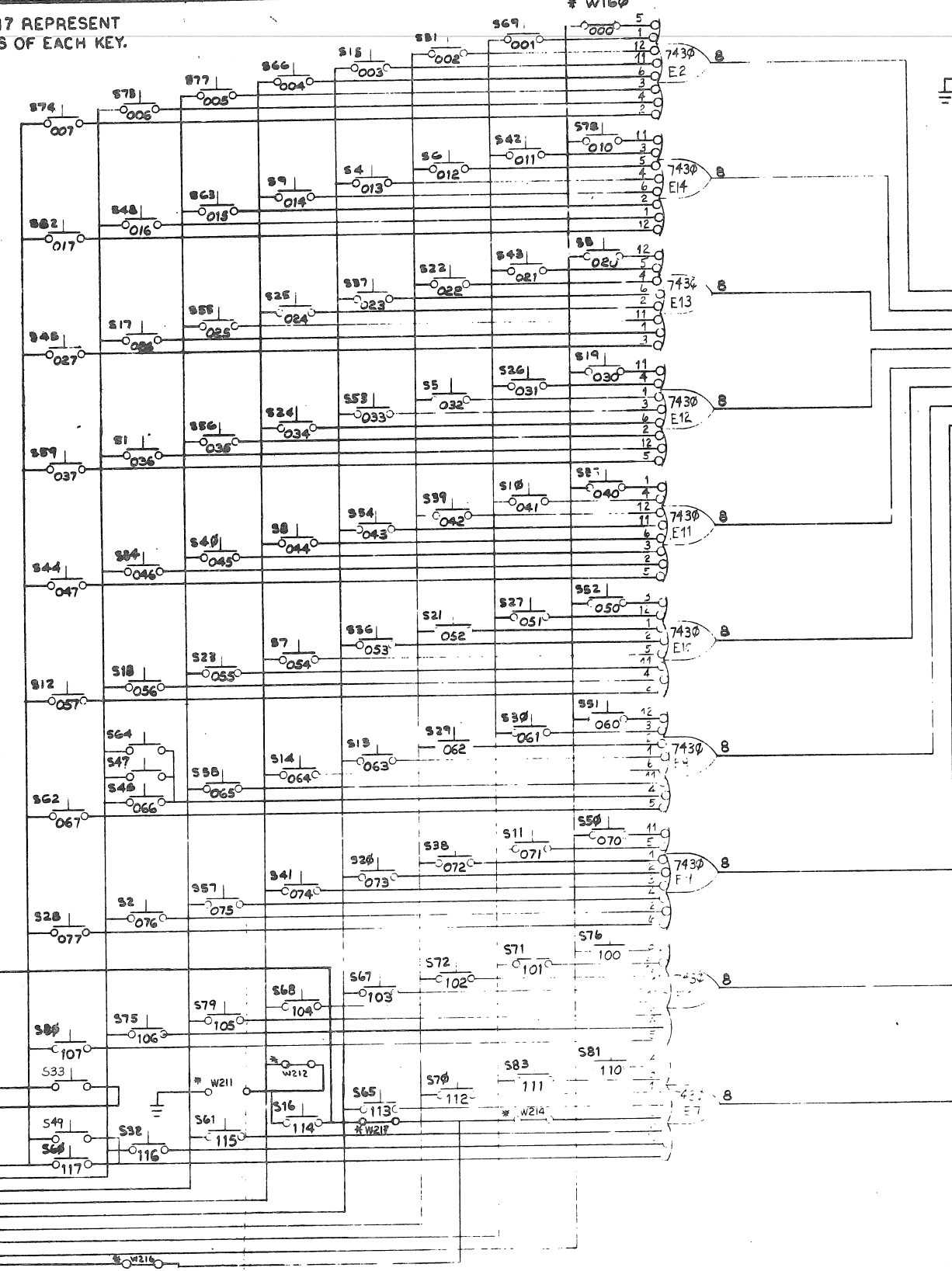
NOTE: SEE SHEET 3 FOR WIRE TABLES

FCI CONN

- 1 CAPS LOCK L
- 2 +5V
- 3 KEY UP H
- 4 GND
- 5 ACT
- 6 LD LED FLAGS
- 7 AC6
- 8 AC5
- 9 AC4
- 10 AC3
- 11 AC2
- 12 AC1
- 13 AC0
- 14 +5V
- 15 GND
- 16 GND

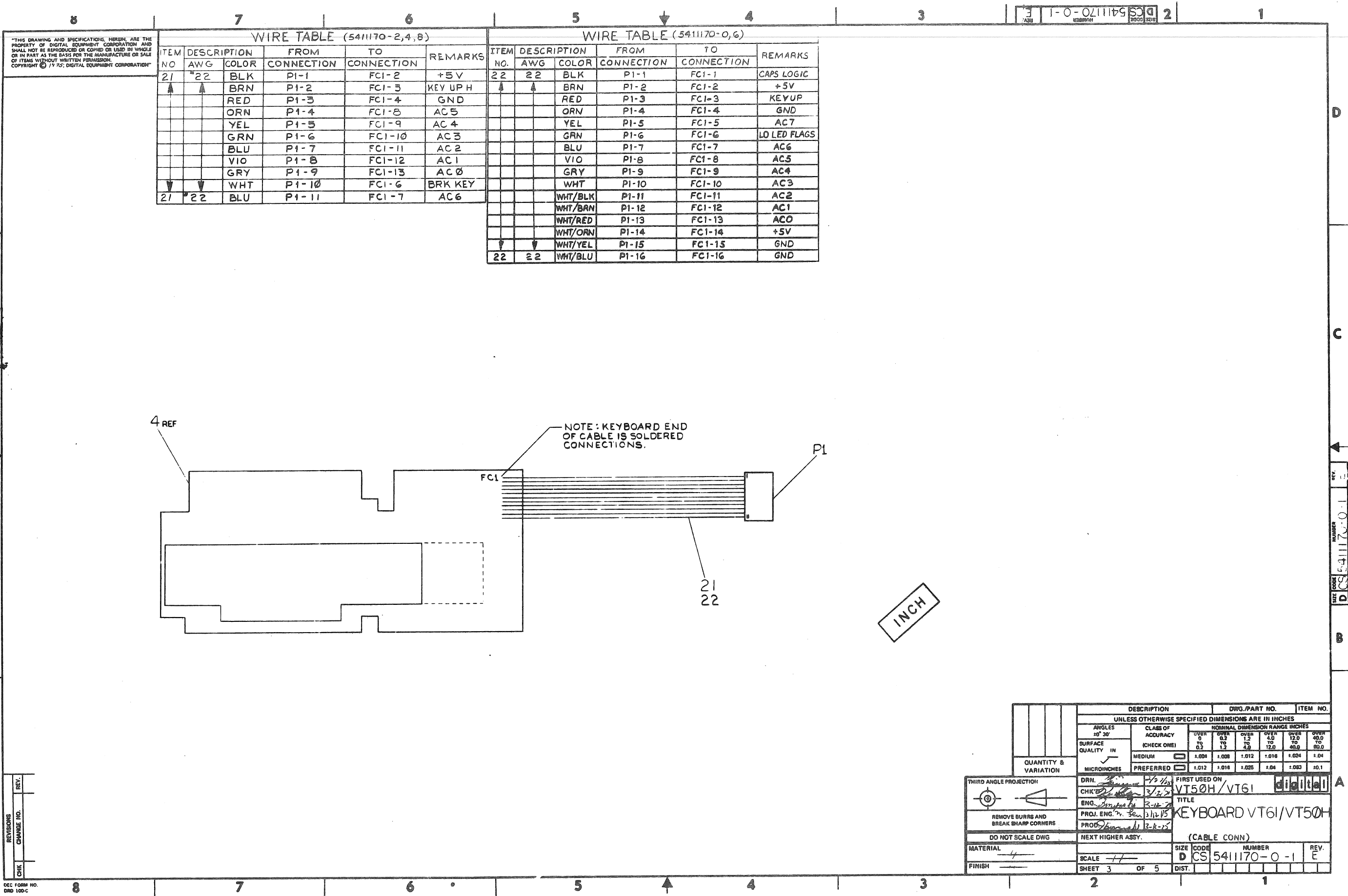
BRK KEY L
W213

CAPS LOCK L
W220
W219



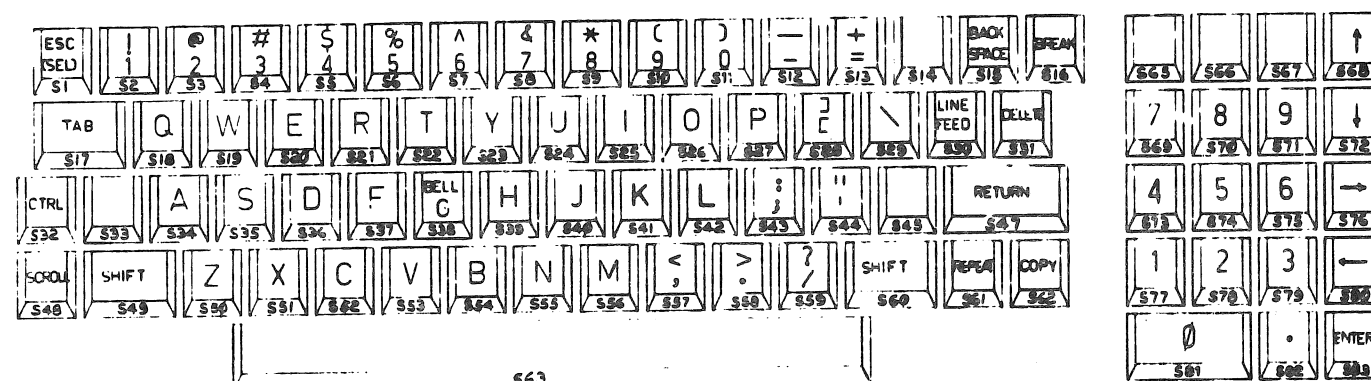
NOTE: THIS CIRCUITRY INSTALLED ONLY ON 5411170-6, 1 VERSION (VT61)

CHK	CHANGE NO.	REV.



NOTES:

1. THE KEYCAP PLACEMENT ON THIS SHEET REPRESENTS THE VT50H, VT50J PLACEMENT. TO FIND KEYCAP LOCATIONS FOR OTHER VARIATIONS MATCH THE SWITCH NUMBER (EXAMPLE S9) 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.



ORNL	3-1-75	VT 50 H/ VT 61
CHK'D	3-5-75	TITLE
ENG.	3-1-75	KEYBOARD VT61/VT50
PROD. ENG.	3-1-75	(KEYCAP WANTED HERE)
PROD.	3-1-75	
NEXT HIGHER ASBY.		
SCALE	NONE	
DRAWN	OF 8	

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COLOR GUIDE
NO NUMBER : GRAY
1 : RED
2 : BLUE
3 : WHITE
4 : GOLD

NOTE: 1) LEGENDS IN LOWER PORTION OF BOX ARE ON THE FRONT FACE OF THE KEY.
2) LEGEND ON SIDE IS UNSIDE 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	S22	S23	S24	S25	S26	S27	S28	S29	S30	S31	S32	S33	S34	S35	S36	S37	S38	S39	S40	S41	S42	
5411170-0 (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	BREAK	TAB	Q	W	E	R	T	Y	U	I	O	P	~	LINE FEED	DELETE	CTRL	CAPS LOCK	A	S	D	F	BELL G	H	J	K	L		
5411170-2 (VT50H)	ESC (SEL)	1	2	3	4	5	6	7	8	9	0	-	=	~	BACK SPACE	BREAK	TAB	Q	W	E	R	T	Y	U	I	O	P	~	LINE FEED	DELETE	CTRL	CAPS LOCK	A		D	F	BELL G	H	J	K	L		
5411170-4 (VT52)	ESC (SEL)	1	2	3	4	5	6	7	8	9	0	-	=	~	BACK SPACE	BREAK	TAB	Q	W	E	R	T	Y	U	I	O	P	~	LINE FEED	DELETE	CTRL	CAPS LOCK	A		D	F	BELL G	H	J	K	L		
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	BREAK	TAB	Q	W	E	R	T	Y	U	I	O	P	~	LINE FEED	DELETE	CTRL	CAPS LOCK	A	S	D	F	BELL G	H	J	K	L		
5411170-8 (VT52-W)	ESC (SEL)	1	2	3	4	5	6	7	8	9	0	-	=	~	BACK SPACE	BREAK	TAB	Q	W	E	R	T	Y	U	I	O	P	~	LINE FEED	DELETE	CTRL	CAPS LOCK	A	S	D	F	BELL G	H	J	K	L		
												PRINT HOLD	ARROW HALT		ENTER FULL	BREAK	TAB	Q	W	E	R	T	Y	U	I	O	P	~	LINE FEED	DELETE	CTRL	CAPS LOCK	A	S	D	F	BELL G	H	J	K	L		

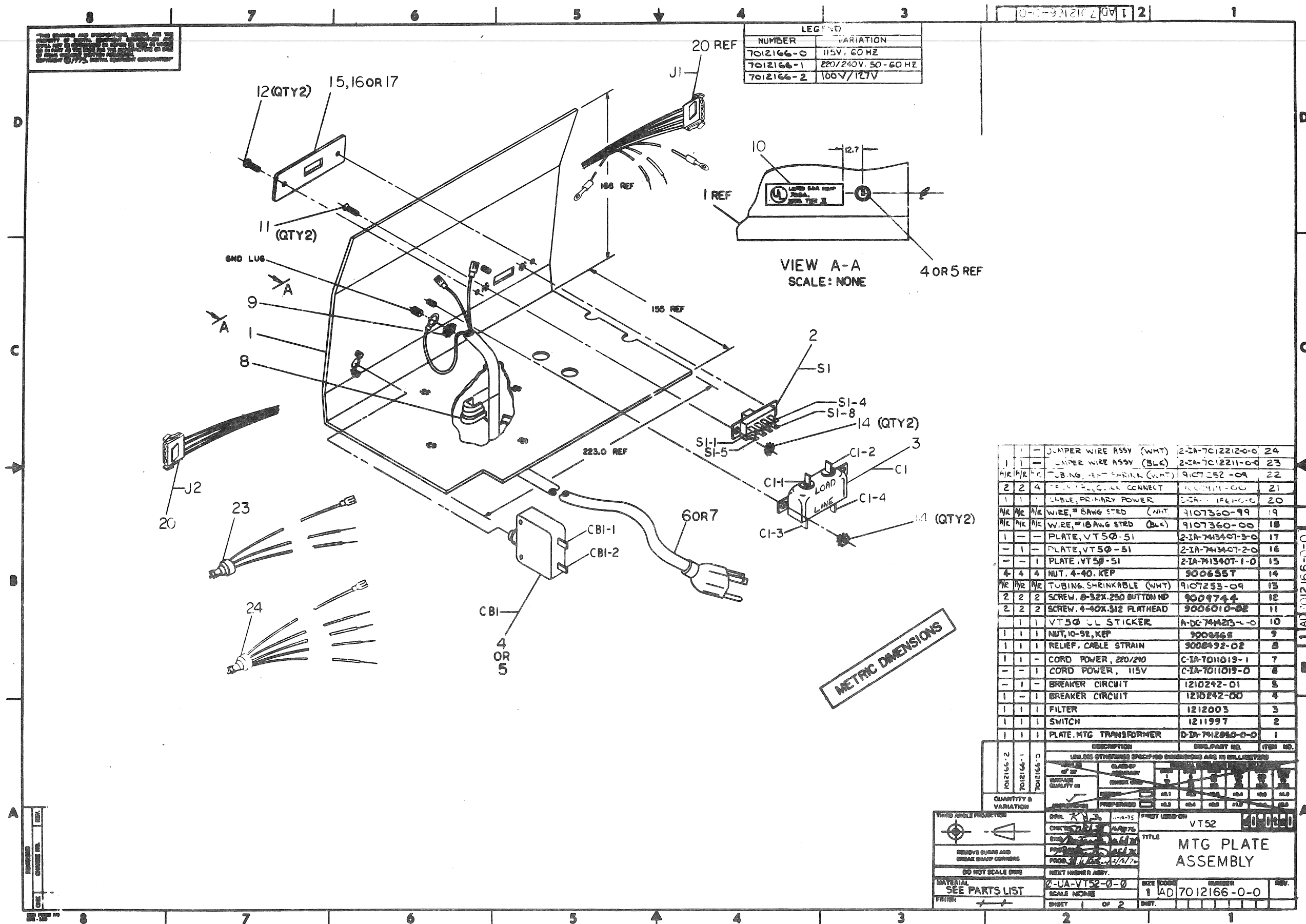
SWITCH NUMBER (CONT.)

VARIAION	S43	S44	S45	S46	S47	S48	S49	S50	S51	S52	S53	S54	S55	S56	S57	S58	S59	S60	S61	S62	S63	S64	S65	S66	S67	S68	S69	S70	S71	S72	S73	S74	S75	S76	S77	S78	S79	S80	S81	S82	S83
5411170-0	:	:	:	:	RETURN	SCROLL	SHIFT	Z	X	C	V	B	N	M	<	>	?	SHIFT	REPEAT	CO-Y	SPACE BAR	ECM	BACK FIELD	FWFLD	↑	7	8	9	↓	4	5	6	→	1	2	3	←	0	•	ENTER	
5411170-2	:	:	:	:	RETURN	SCROLL	SHIFT	Z	X	C	V	B	N	M	<	>	?	SHIFT	REPEAT	CO-Y	SPACE BAR	ECM	BACK FIELD	FWFLD	↑	7	8	9	↓	4	5	6	→	1	2	3	←	0	•	ENTER	
5411170-4	:	:	:	:	RETURN	SCROLL	SHIFT	Z	X	C	V	B	N	M	<	>	?	SHIFT	REPEAT	CO-Y	SPACE BAR	ECM	BACK FIELD	FWFLD	↑	7	8	9	↓	4	5	6	→	1	2	3	←	0	•	ENTER	
5411170-6	:	:	:	:	RETURN	SCROLL	SHIFT	Z	X	C	V	B	N	M	<	>	?	SHIFT	REPEAT	CO-Y	SPACE BAR	ECM	BACK FIELD	FWFLD	↑	7	8	9	↓	4	5	6	→	1	2	3	←	0	•	ENTER	
5411170-8 (VT52-W)	:	:	:	:	RETURN	SCROLL	SHIFT	Z	X	C	V	B	N	M	<	>	?	SHIFT	REPEAT	CO-Y	SPACE BAR	ECM	BACK FIELD	FWFLD	↑	7	8	9	↓	4	5	6	→	1	2	3	←	0	•	ENTER	

REVISIONS		
CHK	CHANGE NO.	REV.

DEC FORM NO. 010 130

TITLE: KEYBOARD, VT61/VT50H
(KEYCAP PLACEMENT)
SCALE: 1:1
D E C S 5411170-0-1
REV. E



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115V, 60 HZ

WIRE TABLE							
ITEM NO	DESCRIPTION		FROM		TO		LENGTH
	AWG	COLOR	CONNECTION	WITH	CONNECTION	WITH	
18	18	BLK	CB1-1	21#22	CI-1	21#22	241.3 MM
18	18	BLK	CB1-2	21#22	SI-1	20#13	530.2 MM
20		BLK			SI-2	20#13	
		WHT			SI-6	20#13	
		GRN					
6		GRN			GND LUG	9	
		WHT			CI-3	20#22	
		BLK			CI-4	20#22	
19	18	WHT	SI-5	20#13	CI-2	21#22	203.2 MM

220/240 V, 50/60 HZ
100/127V, 50/60 HZ

WIRE TABLE							
ITEM NO	DESCRIPTION		FROM		TO		LENGTH
	AWG	COLOR	CONNECTION	WITH	CONNECTION	WITH	
18	18	BLK	CB1-1	21#22	CI-1	21#22	241.3 MM
23		BLK	POINT 2		CB1-2	20#13	
		BLK	POINT 1		SI-2	20#13	
		BLK	POINT 3		SI-3	20#13	
24		WHT	POINT 3		CI-2	20#22	
		WHT	POINT 1		SI-5	20#13	
		WHT	POINT 2		SI-6		
		WHT	POINT 4		SI-7		
		WHT	POINT 5		SI-8		
20		BLK			SI-1		
		WHT			SI-4	20#13	
		GRN			GROUND LUG	9	
7		GRN/YEL					
		BLU			CI-3	20#22	
18	18	BRN			CI-4	20#22	

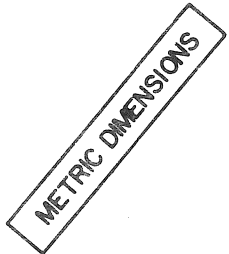
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE
MTG PLATE ASSEMBLY 1 AD 7012166-0-0
SCALE 2 OF 2

REVISIONS		
CHK#	CHANGE NO.	REV.
	VT50-00012	A
	07/14/2012 21-ADIV-72	
	R DOANE	
	R 2012 0 1475	
	IMVT50-00015	B
	J. GAZDAR 2007-12-76	
	WJ J. HAZEN	
	BAY M. HAZEN 3-18-76	
	70100661-00001	C
	D. GAZDAR 6-14-72	
	R GIRARD	
	R 2012 0 1476	

THIRD ANGLE PROJECTION	DRN. <i>John A. Hargrave</i> 9-3-75	FIRST USED ON	VT 50	10-00-0
	CHK'D <i>W. J. [illegible]</i>	TITLE	TRANSFORMER ASSY	
REMOVE BURRS AND BREAK SHARP CORNERS	ENGR. <i>W. J. [illegible]</i>			
	PROL. ENG. <i>W. J. [illegible]</i>			
	PROP. IN <i>W. J. [illegible]</i> 6/25/75			
DO NOT SCALE DWG	NEXT HIGHER ASSY.	SIZE	CODE	NUMBER
	Ø - UA - VT50 - Ø - Ø	1	AD	7010861-0-0
MATERIAL	SCALE NONE			REV. C
SEE PARTS LIST	SHEET 1 OF 2			
FINISH				

		DESCRIPTION		DWG./PART NO.		ITEM NO.	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS					
		NORMAL DIMENSION RANGE (MILLIMETERS)					
		TOLERANCE		OVER	UNDER	OVER	UNDER
		1/16" 3/32"		0.00	0.00	0.00	0.00
		1/32" 1/16"		0.00	0.00	0.00	0.00
		1/16" 1/8"		0.00	0.00	0.00	0.00
		1/8" 3/16"		0.00	0.00	0.00	0.00
		3/16" 1/4"		0.00	0.00	0.00	0.00
		1/4" 5/16"		0.00	0.00	0.00	0.00
		5/16" 3/4"		0.00	0.00	0.00	0.00
		3/4" 1"		0.00	0.00	0.00	0.00
		1" 1 1/4"		0.00	0.00	0.00	0.00
		1 1/4" 1 1/2"		0.00	0.00	0.00	0.00
		1 1/2" 1 3/4"		0.00	0.00	0.00	0.00
		1 3/4" 2"		0.00	0.00	0.00	0.00
		2" 2 1/4"		0.00	0.00	0.00	0.00
		2 1/4" 2 1/2"		0.00	0.00	0.00	0.00
		2 1/2" 2 3/4"		0.00	0.00	0.00	0.00
		2 3/4" 3"		0.00	0.00	0.00	0.00
		3" 3 1/4"		0.00	0.00	0.00	0.00
		3 1/4" 3 1/2"		0.00	0.00	0.00	0.00
		3 1/2" 3 3/4"		0.00	0.00	0.00	0.00
		3 3/4" 4"		0.00	0.00	0.00	0.00
		4" 4 1/4"		0.00	0.00	0.00	0.00
		4 1/4" 4 1/2"		0.00	0.00	0.00	0.00
		4 1/2" 4 3/4"		0.00	0.00	0.00	0.00
		4 3/4" 5"		0.00	0.00	0.00	0.00
		5" 5 1/4"		0.00	0.00	0.00	0.00
		5 1/4" 5 1/2"		0.00	0.00	0.00	0.00
		5 1/2" 5 3/4"		0.00	0.00	0.00	0.00
		5 3/4" 6"		0.00	0.00	0.00	0.00
		6" 6 1/4"		0.00	0.00	0.00	0.00
		6 1/4" 6 1/2"		0.00	0.00	0.00	0.00
		6 1/2" 6 3/4"		0.00	0.00	0.00	0.00
		6 3/4" 7"		0.00	0.00	0.00	0.00
		7" 7 1/4"		0.00	0.00	0.00	0.00
		7 1/4" 7 1/2"		0.00	0.00	0.00	0.00
		7 1/2" 7 3/4"		0.00	0.00	0.00	0.00
		7 3/4" 8"		0.00	0.00	0.00	0.00
		8" 8 1/4"		0.00	0.00	0.00	0.00
		8 1/4" 8 1/2"		0.00	0.00	0.00	0.00
		8 1/2" 8 3/4"		0.00	0.00	0.00	0.00
		8 3/4" 9"		0.00	0.00	0.00	0.00
		9" 9 1/4"		0.00	0.00	0.00	0.00
		9 1/4" 9 1/2"		0.00	0.00	0.00	0.00
		9 1/2" 9 3/4"		0.00	0.00	0.00	0.00
		9 3/4" 10"		0.00	0.00	0.00	0.00
		10" 10 1/4"		0.00	0.00	0.00	0.00
		10 1/4" 10 1/2"		0.00	0.00	0.00	0.00
		10 1/2" 10 3/4"		0.00	0.00	0.00	0.00
		10 3/4" 11"		0.00	0.00	0.00	0.00
		11" 11 1/4"		0.00	0.00	0.00	0.00
		11 1/4" 11 1/2"		0.00	0.00	0.00	0.00
		11 1/2" 11 3/4"		0.00	0.00	0.00	0.00
		11 3/4" 12"		0.00	0.00	0.00	0.00
		12" 12 1/4"		0.00	0.00	0.00	0.00
		12 1/4" 12 1/2"		0.00	0.00	0.00	0.00
		12 1/2" 12 3/4"		0.00	0.00	0.00	0.00
		12 3/4" 13"		0.00	0.00	0.00	0.00
		13" 13 1/4"		0.00	0.00	0.00	0.00
		13 1/4" 13 1/2"		0.00	0.00	0.00	0.00
		13 1/2" 13 3/4"		0.00	0.00	0.00	0.00
		13 3/4" 14"		0.00	0.00	0.00	0.00
		14" 14 1/4"		0.00	0.00	0.00	0.00
		14 1/4" 14 1/2"		0.00	0.00	0.00	0.00
		14 1/2" 14 3/4"		0.00	0.00	0.00	0.00
		14 3/4" 15"		0.00	0.00	0.00	0.00
		15" 15 1/4"		0.00	0.00	0.00	0.00
		15 1/4" 15 1/2"		0.00	0.00	0.00	0.00
		15 1/2" 15 3/4"		0.00	0.00	0.00	0.00
		15 3/4" 16"		0.00	0.00	0.00	0.00
		16" 16 1/4"		0.00	0.00	0.00	0.00
		16 1/4" 16 1/2"		0.00	0.00	0.00	0.00
		16 1/2" 16 3/4"		0.00	0.00	0.00	0.00
		16 3/4" 17"		0.00	0.00	0.00	0.00
		17" 17 1/4"		0.00	0.00	0.00	0.00
		17 1/4" 17 1/2"		0.00	0.00	0.00	0.00
		17 1/2" 17 3/4"		0.00	0.00	0.00	0.00
		17 3/4" 18"		0.00	0.00	0.00	0.00
		18" 18 1/4"		0.00	0.00	0.00	0.00
		18 1/4" 18 1/2"		0.00	0.00	0.00	0.00
		18 1/2" 18 3/4"		0.00	0.00	0.00	0.00
		18 3/4" 19"		0.00	0.00	0.00	0.00
		19" 19 1/4"		0.00	0.00	0.00	0.00
		19 1/4" 19 1/2"		0.00	0.00	0.00	0.00
		19 1/2" 19 3/4"		0.00	0.00	0.00	0.00
		19 3/4" 20"		0.00	0.00	0.00	0.00
		20" 20 1/4"		0.00	0.00	0.00	0.00
		20 1/4" 20 1/2"		0.00	0.00	0.00	0.00
		20 1/2" 20 3/4"		0.00	0.00	0.00	0.00
		20 3/4" 21"		0.00	0.00	0.00	0.00
		21" 21 1/4"		0.00	0.00	0.00	0.00
		21 1/4" 21 1/2"		0.00	0.00	0.00	0.00
		21 1/2" 21 3/4"		0.00	0.00	0.00	0.00
		21 3/4" 22"		0.00	0.00	0.00	0.00
		22" 22 1/4"		0.00	0.00	0.00	0.00
		22 1/4" 22 1/2"		0.00	0.00	0.00	0.00
		22 1/2" 22 3/4"		0.00	0.00	0.00	0.00
		22 3/4" 23"		0.00	0.00	0.00	0.00
		23" 23 1/4"		0.00	0.00	0.00	0.00
		23 1/4" 23 1/2"		0.00	0.00	0.00	0.00
		23 1/2" 23 3/4"		0.00	0.00	0.00	0.00
		23 3/4" 24"		0.00	0.00	0.00	0.00
		24" 24 1/4"		0.00	0.00	0.00	0.00
		24 1/4" 24 1/2"		0.00	0.00	0.00	0.00
		24 1/2" 24 3/4"		0.00	0.00	0.00	0.00
		24 3/4" 25"		0.00	0.00	0.00	0.00
		25" 25 1/4"		0.00	0.00	0.00	0.00
		25 1/4" 25 1/2"		0.00	0.00	0.00	0.00
		25 1/2" 25 3/4"		0.00	0.00	0.00	0.00
		25 3/4" 26"		0.00	0.00	0.00	0.00
		26" 26 1/4"		0.00	0.00	0.00	0.00
		26 1/4" 26 1/2"		0.00	0.00	0.00	0.00
		26 1/2" 26 3/4"		0.00	0.00	0.00	0.00
		26 3/4" 27"		0.00	0.00	0.00	0.00
		27" 27 1/4"		0.00	0.00	0.00	0.00
		27 1/4" 27 1/2"		0.00	0.00	0.00	0.00
		27 1/2" 27 3/4"		0.00	0.00	0.00	0.00
		27 3/4" 28"		0.00	0.00	0.00	0.00
		28" 28 1/4"		0.00	0.00	0.00	0.00
		28 1/4" 28 1/2"		0.00	0.00	0.00	0.00
		28 1/2" 28 3/4"		0.00	0.00	0.00	0.00
		28 3/4" 29"		0.00	0.00	0.00	0.00
		29" 29 1/4"		0.00	0.00	0.00	0.00
		29 1/4" 29 1/2"		0.00	0.00	0.00	0.00
		29 1/2" 29 3/4"		0.00	0.00	0.00	0.00
		29 3/4" 30"		0.00	0.00	0.00	0.00
		30" 30 1/4"		0.00	0.00	0.00	0.00
		30 1/4" 30 1/2"		0.00	0.00	0.00	0.00
		30 1/2" 30 3/4"		0.00	0.00	0.00	0.00
		30 3/4" 31"		0.00	0.00	0.00	0.00
		31" 31 1/4"		0.00	0.00	0.00	0.00
		31 1/4" 31 1/2"		0.00	0.00	0.00	0.00
		31 1/2" 31 3/4"		0.00	0.00	0.00	0.00
		31 3/4" 32"		0.00	0.00	0.00	0.00
		32" 32 1/4"		0.00	0.00	0.00	0.00
		32 1/4" 32 1/2"		0.00	0.00	0.00	0.00
		32 1/2" 32 3/4"		0.00	0.00	0.00	0.00
		32 3/4" 33"		0.00	0.00	0.00	0.00
		33" 33 1/4"		0.00	0.00	0.00	0.00
		33 1/4" 33 1/2"		0.00	0.00	0.00	0.00
		33 1/2" 33 3/4"		0.00	0.00	0.00	0.00
		33 3/4" 34"		0.00	0.00	0.00	0.00
		34" 34 1/4"		0.00	0.00	0.00	0.00
		34 1/4" 34 1/2"		0.00	0.00	0.00	0.00
		34 1/2" 34 3/4"		0.00	0.00	0.00	0.00
		34 3/4" 35"		0.00	0.00	0.00	0.00
		35" 35 1/4"		0.00	0.00	0.00	0.00
		35 1/4" 35 1/2"		0.00	0.00	0.00	0.00
		35 1/2" 35 3/4"		0.00	0.00	0.00	0.00
		35 3/4" 36"		0.00	0.00	0.00	0.00
		36" 36 1/4"		0.00	0.00	0.00	0.00
		36 1/4" 36 1/2"		0.00	0.00	0.00	0.00
		36 1/2" 36 3/4"		0.00	0.00	0.00	0.00
		36 3/4" 37"		0.00	0.00	0.00	0.00
		37" 37 1/4"		0.00	0.00	0.00	0.00
		37 1/4" 37 1/2"		0.00	0.00	0.00	0.00
		37 1/2" 37 3/4"		0.00	0.00	0.00	0.00
		37 3/4" 38"		0.00	0.00	0.00	0.00
		38" 38 1/4"		0.00	0.00	0.00	0.00
		38 1/4" 38 1/2"		0.00	0.00	0.00	0.00
		38 1/2" 38 3/4"		0.00	0.00	0.00	0.00
		38 3/4" 39"		0.00	0.00	0.00	0.00
		39" 39 1/4"		0.00	0.00	0.00	0.00
		39 1/4" 39 1/2"		0.00	0.00	0.00	0.00
		39 1/2" 39 3/4"		0.00	0.00	0.00	0.00
		39 3/4" 40"		0.00	0.00	0.00	0.00
		40" 40 1/4"		0.00	0.00	0.00	0.00
		40 1/4" 40 1/2"		0.00	0.00	0.00	0.00
		40 1/2" 40 3/4"		0.00	0.00	0.00	0.00
		40 3/4" 41"		0.00	0.00	0.00	0.00
		41" 41 1/4"		0.00	0.00	0.00	0.00
		41 1/4" 41 1/2"		0.00	0.00	0.00	0.00
		41 1/2" 41 3/4"		0.00	0.00	0.00	0.00
		41 3/4" 42"		0.00	0.00	0.00	0.00
		42" 42 1/4"		0.00	0.00	0.00	0.00
		42 1/4" 42 1/2"		0.00	0.00	0.00	0.00
		42 1/2" 42 3/4"		0.00	0.00	0.00	0.00
		42 3/4" 43"		0.00	0.00	0.00	0.00
		43" 43 1/4"		0.00	0.00	0.00	0.00
		43 1/4" 43 1/2"		0.00	0.00	0.00	0.00
		43 1/2" 43 3/4"		0.00	0.00	0.00	0.00
		43 3/4" 44"		0.00	0.00	0.00	0.00
		44" 44 1/4"		0.00	0.00	0.00	0.00
		44 1/4" 44 1/2"		0.00	0.00	0.00	0.00
		44 1/2" 44 3/4"		0.00	0.00	0.00	0.00
		44 3/4" 45"		0.00	0.00	0.00	0.00



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0-0-1980102

115 VOLTS
60 HZ

WIRE TABLE									
ITEM NO.	DESCRIPTION		FROM			TO			SIGNAL
	AWG	COLOR	POINT	CONNECTION	WITH	POINT	CONNECTION	WITH	
18	—	—	—	P1	—	—	—	—	
1	—	—	1	—	—	—	SI-5	—	
—	—	—	2	—	—	—	SI-7	—	
—	—	—	3	—	—	—	—	—	NOT USED
—	—	—	4	—	—	—	—	—	NOT USED
1A	BLK	13	FL LOAD 1	17	18	CB-1	17		
14	BLK	14	SI-2	—	17	CB-2	17		
14	WHT	15	SI-6	—	16	FL LOAD 2	17		
1P	GRN	19	—	—	—	GND	—		
1A	GRN	20	—	—	—	GND	—		
1A	WHT	—	—	—	—	FL LINE 3	17		
1A	FLK	—	—	—	—	FL LINE 4	17		
1A	GRN	—	—	—	—	GND	—		

100/127 VOLTS
220/240 VOLTS
50-60 HZ

WIRE TABLE									
ITEM NO.	DESCRIPTION		FROM			TO			SIGNAL
	AWG	COLOR	POINT	CONNECTION	WITH	POINT	CONNECTION	WITH	
18	—	—	—	P1	—	—	—	—	
16	BLK	1	—	—	—	SI-1	—		
18	GRN	2	—	—	—	GND	—		
1A	GRN	3	—	—	—	GND	—		
14	BLK	12	—	—	—	CB-2	17		
18	BLK	17	CB-1	15	1A	FL LOAD 1	17		
14	WHT	19	—	—	—	FL LOAD 2	17		
18	BLK	13	—	—	—	SI-2	—		
18	BLK	14	—	—	—	SI-3	—		
18	WHT	15	—	—	—	SI-5	—		
1A	WHT	16	—	—	—	SI-6	—		
1A	BLK/WHT	22	—	—	—	SI-4	—		
18	WHT	24	—	—	—	SI-7	—		
18	WHT	25	—	—	—	SI-8	—		
16	RED/YEL	26	—	—	—	—	—		NOT USED
16	RED/YEL	27	—	—	—	—	—		NOT USED
18	BRN	—	—	—	—	FL LINE 4	17		
18	BLU	—	—	—	—	FL LINE 3	17		
18	GRN/YEL	—	—	—	—	GND	9		

REV	DATE	BY

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WIRE TABLE

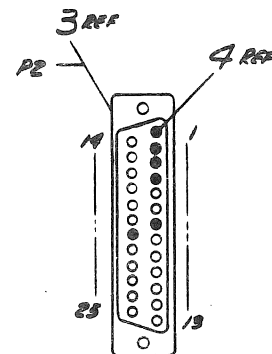
ITEM NO	DESCRIPTION	COLOR	FROM		TO	
			CONNECTION	WITH	CONNECTION	WITH
1	20	GRN	P2-H1	SOLDER	P1-1	VOLTA
		BLU	P2-H2		P1-2	
		RED	P2-H3		P1-3	
		WHT	P2-H4		P1-4	
		BLK	P2-H5		P1-7	
1	20	GRN	P2-H6	SOLDER	P1-20	VOLTA

LEGEND

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

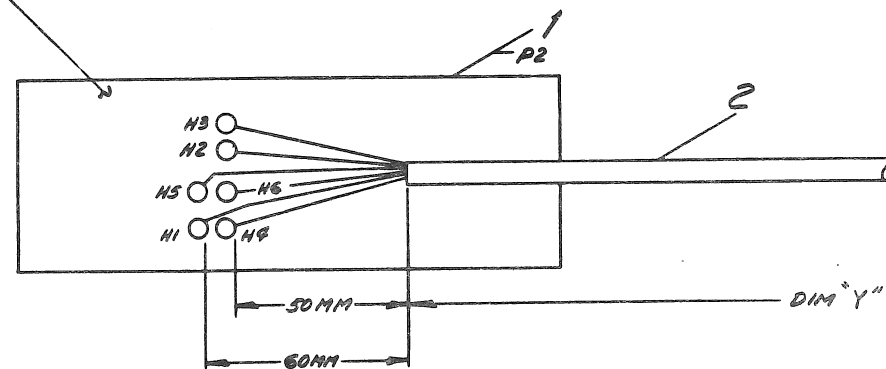
NOTES:

1. ALTERNATE PARTS FOR ITEMS 3, 4 AND 5 ARE 1205385 HOOD MMU 1205396 EIA THE CONNECTOR.
2. ALTERNATE CABLE NO. IS 1107378
3. ALL WIRES ARE SOLDERED ON SIDE 2 OF ITEM #1
4. CRIMPING TOOL IS MS 3138 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 3107695-09 ITEM #6. TUBING OVER END OF CABLE WHEN USING ALTERNATE CONNECTOR 25.4 MM AND 31.75 MM LONG.

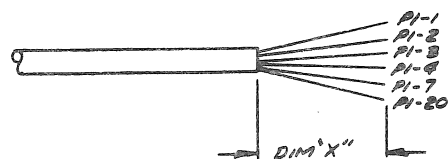


VIEW A-A
WITH HOOD REMOVED
SCALE: NONE
(REAR VIEW)

SIDE 2 SHOWN



DETAIL - B
TYP ALL WIRE ENDS



DETAIL 'A'
SCALE: NONE

SEE DETAIL 'A'

SEE NOTE #6

METRIC DIMENSIONS

ITEM NO	DESCRIPTION	QTY	ITEM NO
1	SHRINKABLE TUBING	1	6
1	HOOD STRAIN RELIEF	1	5
6	MALE PIN	1	4
1	SHELL AND INSERT	1	3
1	CABLE 6 CONDUCTOR	1	2
1	EIA CARD	1	1

DESCRIPTION DWG/PART NO. ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS

ANGLES CLASS OF ACCURACY NOMINAL DIMENSION RANGE MILLIMETER

0-30 TO 5 5 10 30 100 300 1000

SURFACE QUALITY IN (CHECK ONE) 1 5 10 30 100 300 1000

MEDIUM 0.1 0.2 0.3 0.4 0.6 1.0 1.6 2.5

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

SCALE 1:1

SHEET 1 OF 1

DIST.

DATE 11/1/75

BY 11/1/75

CHK'D 11/1/75

ENG 11/1/75

PROD 11/1/75

NEXT HIGHER ASSY.

0-1A-VT52-0-0

SCALE NONE

SHEET 1 OF 1

DIST.

1 1A BN52A-0-0

6

5

4

3

2

1

1

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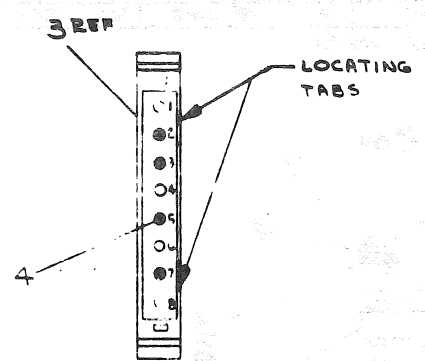
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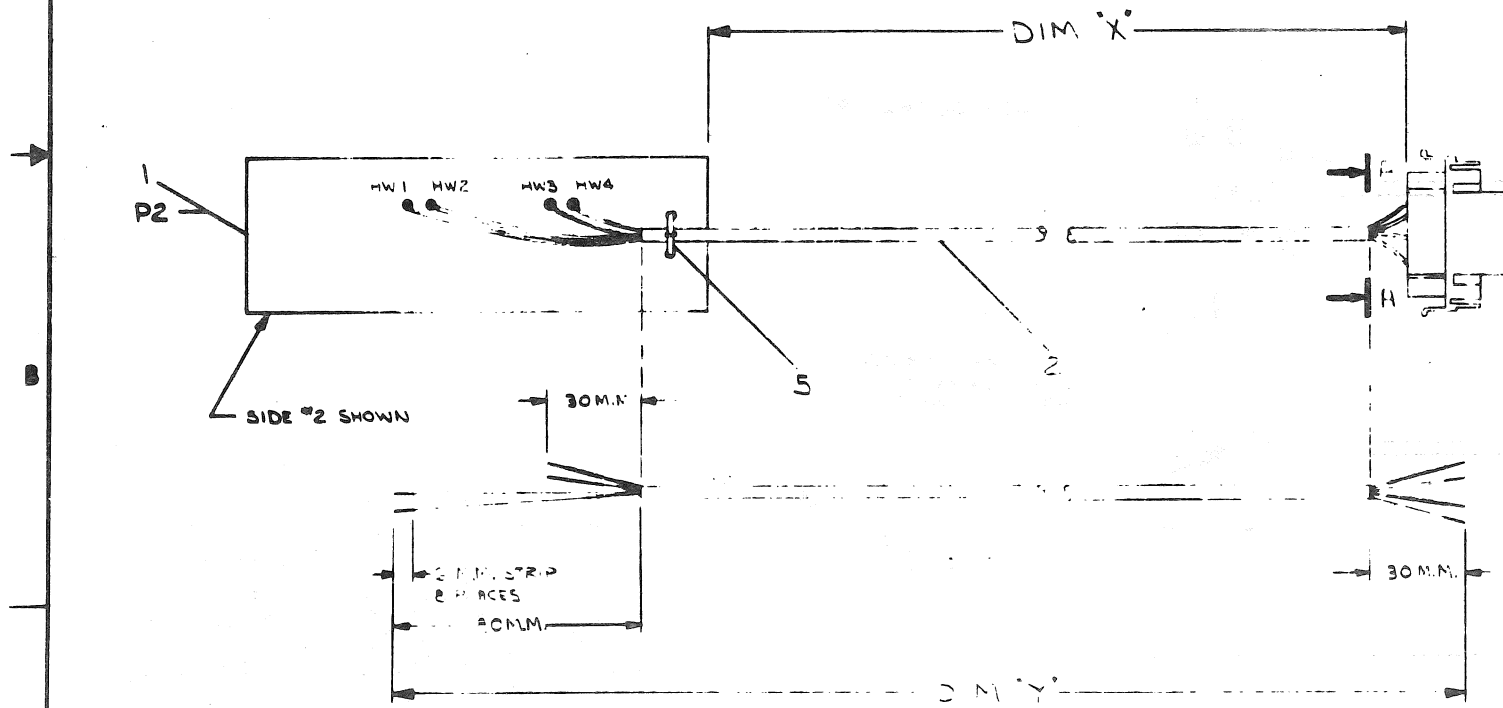
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WIRE TABLE							
ITEM NO.	AWG	COLOR	FROM CONNECTION	WITH	TO CONNECTION	WITH	SIGNAL NAME
2	22	BLK	P1-2	3	P2-HW2	SOLD.	RX-
4	22	RED	P1-3	4	P2-HW4	↓	TX-
4	22	WHT	P1-5	4	P2-HW1	↓	RX+
2	22	GRN	P1-7	3	P2-HW3	SOLD.	TX+

LEGEND		
NUMBER	DIM "X" VARIATION	DIM "Y" PRE-CUT (REF)
BN52B-04	3.9 M.	4.0 M.
BN52B-7F	7.5 M.	7.6 M.



VIEW A-A
SCALE: NONE
REAR VIEW



METRIC DIMENSIONS

1	1	TIE WRAP	9007031	5
4	4	TERMINAL, PIN CONTACT	1209378-03	4
1	1	CONN. PANEL MOUNT, 8 PIN	1209340-01	3
1	1	CABLE, 4 COND. #22 AWG STD	9107706	2
1	1	20 MA ADAPTER CARD	D-58-5411759-01	1

QUANTITY & VARIATION		DESCRIPTION		DWG. PART NO.		ITEM NO.	
BN52B-04		BN52B-04		BN52B-04		BN52B-04	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS		CLASS OF ACCURACY		SURFACE QUALITY IN		MICROINCHES	
ASSEMBLY		CLASS OF ACCURACY		SURFACE QUALITY IN		MICROINCHES	
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CLASS OF ACCURACY		SURFACE QUALITY IN		MICROINCHES		MICROINCHES	
CLASS OF ACCURACY		SURFACE QUALITY IN		MICROINCHES		MICROINCHES	
CLASS OF ACCURACY		SURFACE QUALITY IN		MICROINCHES		MICROINCHES	
CLASS OF ACCURACY							

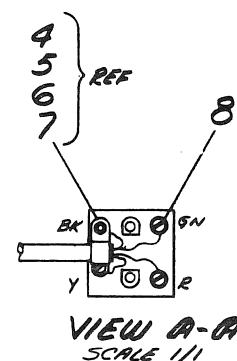
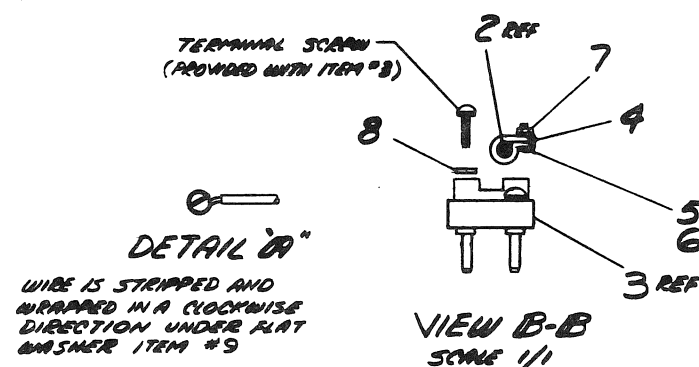
WIRE NO	DESCRIPTION		FROM		TO		SIGNAL
	AWG	COLOR	CONNECTION	WITH	CONNECTION	WITH	NAME
2	22	BLK	PI-Y	*	PE-NW2	SOL	RX-
1	1	RED	PI-R	*	PE-NW3	1	TX-
1	1	WHT	PI-BK	*	PE-NW1	1	RX +
2	22	GRN	PI-BN	*	PE-NW3	SOL	TX +

* SEE NOTE #3

LEGEND		
NUMBER	DWT X VARIATION	DWT Y RES-CUT (REF)
BWS2C-09	3.9 M	9.0 M
BWS2C-7F	7.3 M	2.6 M

NOTES:

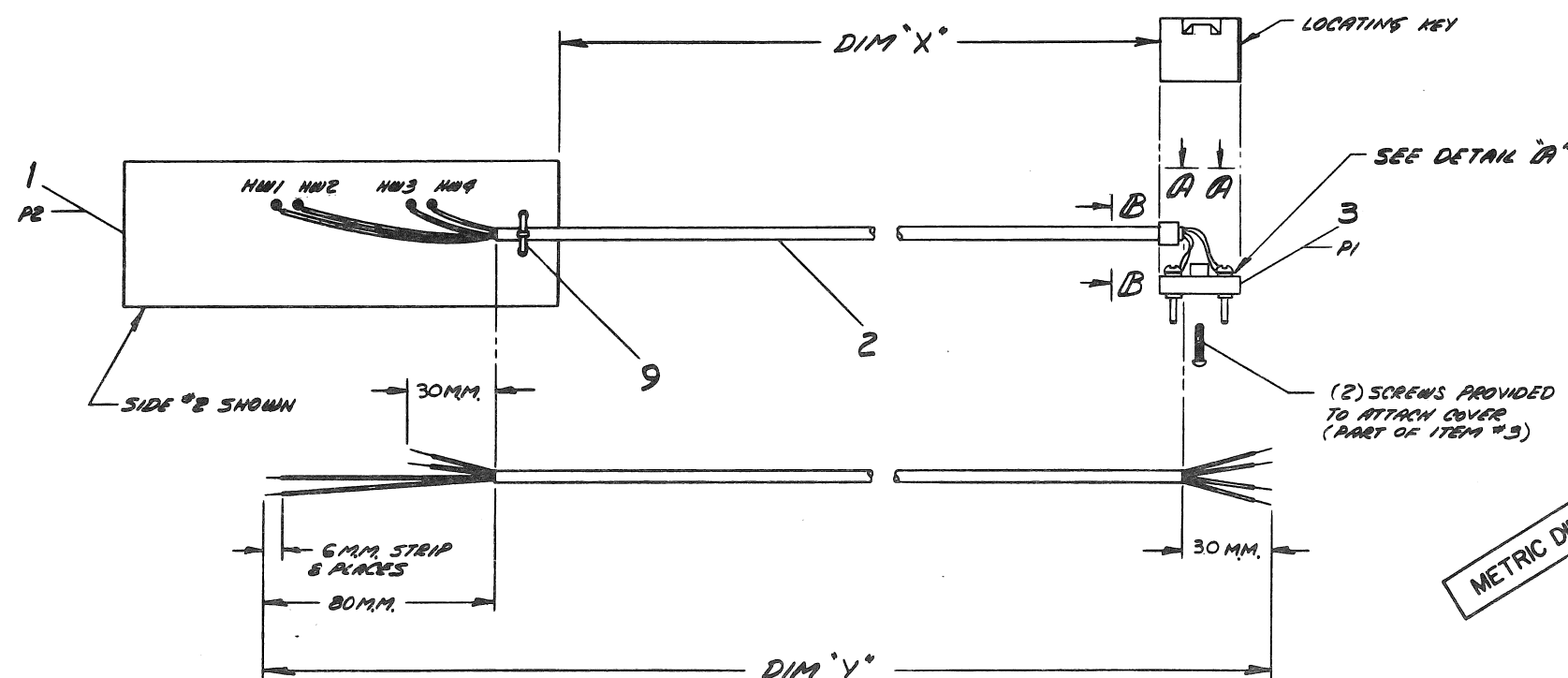
1. DISCARD SMALL SCREW SUPPLIED WITH
RUE (ITEM #3)
2. ATTACH CABLE (ITEM #10) TO CABLE
WITH ONE (1) CABLE TIE (ITEM #9)
DO NOT REMOVE CABLE ARM BKT.
3. ATTACH WIRES INDICATED BY (A) RETURN
TO ITEM #3, USING ITEM #8 AND SCREWS
SUPPLIED WITH ITEM #3.



6 MM STRIP BACK INSULATION

DETAIL - B

TYP ALL WIRE ENDS

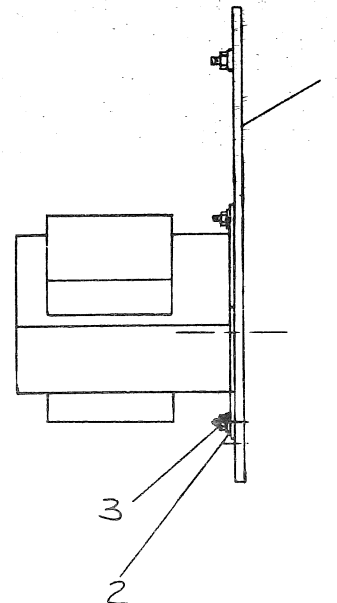
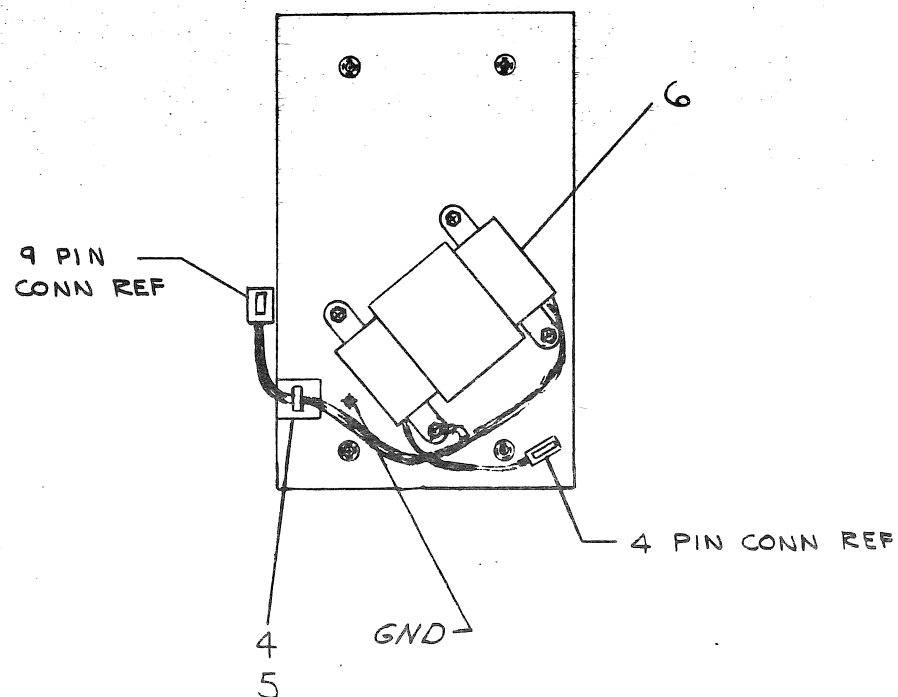


METRIC DIMENSIONS

1	CONN. TELEPHONE (JACK)	1205857-02	10
1	TIE WRAP	9007031	9
4	WASHER, FLAT #4	9008172	8
1	NUT, NYLON #F-40	9007992	7
1	SCR. NYLON BARR. NR #4 - NYL. 58	9006401-4	6
1	WASHER, FLAT NYLON #4	9006706	5
1	CABLE CLAMP .12	9007079	4
1	CONN. TELEPHONE (PLUG)	1205857-01	3
4	CABLE, 4 CONDUCTOR	9107706	2
1	20 MA ADAPTER CABLE	9107706-01	1

DESCRIPTION		UNL PART NO.		ITEM NO.																									
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS																													
ANGLES 10° 20°		<table><tr><th colspan="2">CLASS OF ACCURACY (CHECK ONE)</th><th colspan="6">DIMENSIONAL CODES</th></tr><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr><tr><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr></table>				CLASS OF ACCURACY (CHECK ONE)		DIMENSIONAL CODES						1	2	3	4	5	6	7	8	☐	☐	☐	☐	☐	☐	☐	☐
CLASS OF ACCURACY (CHECK ONE)		DIMENSIONAL CODES																											
1	2	3	4	5	6	7	8																						
☐	☐	☐	☐	☐	☐	☐	☐																						
SURFACE QUALITY		<table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr><tr><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr></table>				1	2	3	4	5	6	☐	☐	☐	☐	☐	☐												
1	2	3	4	5	6																								
☐	☐	☐	☐	☐	☐																								
FINISHING		<table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr><tr><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr></table>				1	2	3	4	5	6	☐	☐	☐	☐	☐	☐												
1	2	3	4	5	6																								
☐	☐	☐	☐	☐	☐																								
DRAWN BY		FIRST USED ON		DATE																									
CHECKED BY		TITLE		DATE																									
ENGINEER		CURRENT LOOP TO																											
PROJ. ENG.		283B PLUG																											
PROD. DRAWING		NEXT HIGHER ASSY.																											
SCALE		SIZE		REV																									
SHEET		1		A																									

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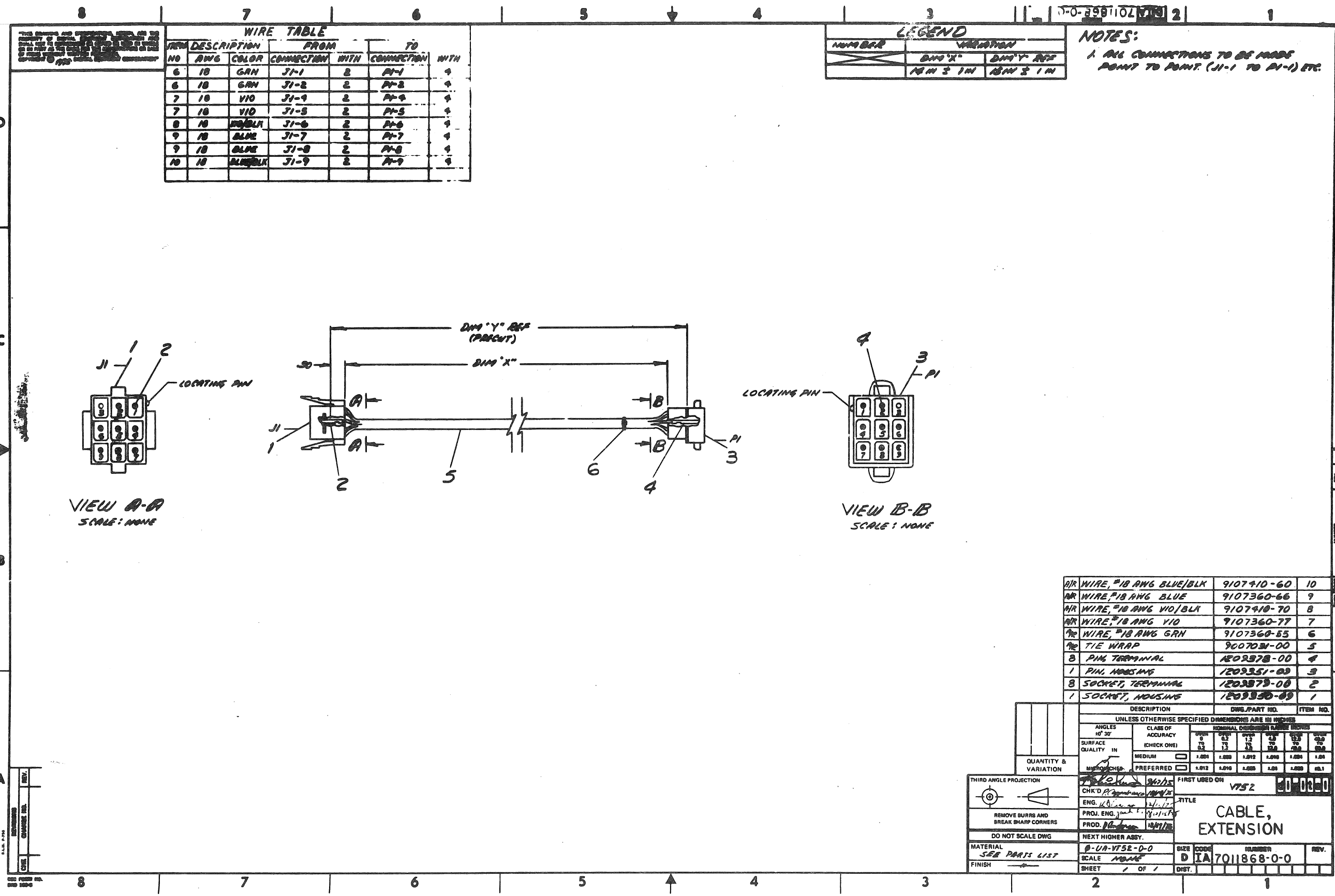
METRIC DIMENSIONS

1	HARNESS, TRANSFORMER	1-IA-7012161-0-0	6
1	TIE MOUNT	90 08264-00	5
1	CABLE TIE	90 07032-00	4
4	NUT, #8-32 KEP	90 06563-00	3
4	WASHER, FLAT	90 06660-00	2
1	PLATE, MTG, TRANS.	2-IA-7414867-0-0	1

		DESCRIPTION		DWG./PART NO.		ITEM NO.			
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS							
		ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE MILLIMETER					
				OVER 1 TO 5	OVER 5 TO 20	OVER 20 TO 100	OVER 100 TO 250	OVER 250 TO 1000	
QUANTITY & VARIATION		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

THIRD ANGLE PROJECTION	DRN. <i>P.C. Goodhue</i> 9-10-75	FIRST USED ON	VT50	digital
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D <i>P.S.C.</i> 10/10/75	TITLE	TRANSFORMER ASSEMBLY	
DO NOT SCALE DWG	PROJ. ENG. <i>Yeast</i> 12/19/75	PROD. <i>DO-Long</i> 12/19/75	SIZE	CODE
MATERIAL <i>SEE PARTS LIST</i>	0-UA-VT52-0-0	SCALE	2	AD 7011852-0-0
FINISH	SHEET 1 OF 1	DIST.		

REVISIONS	REV.
CHANGE NO.	
CHK	



WIRE TABLE						
WIRE DESCRIPTION		FROM		TO		
NO	AWG	COLOR	CONNECTION	WITH	CONNECTION	WITH
6	18	GRN	J1-1	2	P1-1	4
6	18	GRN	J1-2	2	P1-2	4
7	18	VIO	J1-3	2	P1-3	4
7	18	VIO	J1-5	2	P1-5	4
8	18	GRN/BLK	J1-6	2	P1-6	4
9	18	BLU	J1-7	2	P1-7	4
9	18	BLU	J1-8	2	P1-8	4
10	18	BLU/BLK	J1-9	2	P1-9	4

LEGEND		
NUMBER	VARIATION	
	DIM "X"	DIM "Y" REF
	1/8 IN ± 1 IN	1/8 IN ± 1 IN

NOTES:
1. ALL CONNECTIONS TO BE MADE POINT TO POINT (J1-1 TO P1-1) ETC.

WIRE, #18 AWG BLUE/BLK	9107410-60	10
WIRE, #18 AWG BLUE	9107360-66	9
WIRE, #18 AWG VIO/BLK	9107410-70	8
WIRE, #18 AWG VIO	9107360-77	7
WIRE, #18 AWG GRN	9107360-55	6
TIE WRAP	9007034-00	5
PIN, TERMINAL	1209378-00	4
PIN, HOUSING	1209351-00	3
SOCKET, TERMINAL	1209379-00	2
SOCKET, HOUSING	1209350-00	1

QUANTITY & VARIATION		DESCRIPTION		DWG/PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES					
ANGLES 45° 30°		CLASS OF ACCURACY (CHECK ONE)		NORMAL DIMENSIONS RANGE INCHES	
SURFACE QUALITY IN		MEDIUM		0.001	0.002
MATERIAL		PREFERRED		0.001	0.002
FINISH		THIRD ANGLE PROJECTION		FIRST USED ON	
REMOVE BURRS AND BREAK SHARP CORNERS		CHK'D P. [Signature]		TITLE	
DO NOT SCALE DWG		ENG. [Signature]		CABLE, EXTENSION	
NEXT HIGHER ASSY.		PROD. [Signature]		SIZE CODE	
MATERIAL		0-0A-VT52-0-0		NUMBER	
SCALE		SCALE NONE		DIA 7011868-0-0	
SHEET		SHEET 1 OF 1		REV.	

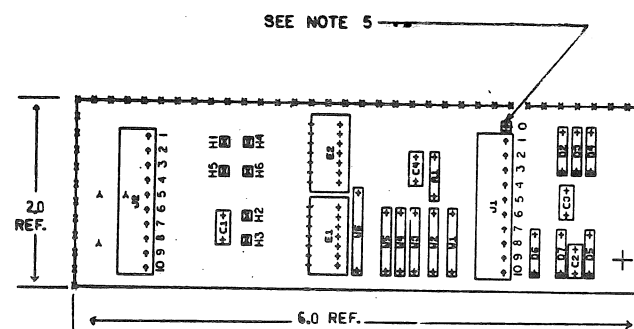
			QTY / VARIATION															
ITEM NO.	PART NO.	DESCRIPTION	VT52-AA	VT52-AB	VT52-AC	VT52-AD	VT52-AE	VT52-AF	VT52-AG	VT52-AH	VT52-AA	VT52-AB	VT52-AC	VT52-AD	VT52-AE	VT52-AF	VT52-AG	VT52-AH
1	B-MD-7411940-0-0	SHELL VT52	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	9009641-01	LABEL, ALUMINUM, ADHESIVE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	9009672-00	SPACER, PLASTIC	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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
5	9009680-01	SEW, TH'D ROLLING SCREW #6X.31	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
6	9009680-04	SEW, TH'D ROLLING SCREW #6X.50	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
7	9009679-01	STANDOFF, PLASTIC, SNAP-IN .625 LG	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
8	D-CS-5410896-0-1	MONITOR POWER SUPPLY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	D-IA-7412066-0-0	HEAT SINK	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	9009679-02	SEW, TH'D ROLLING SCREW #6X .75	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	9009672-01	SEW, TH'D ROLLING SCREW #6X .30	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
12	1010185-0-0	CAP. 6000 MFD. 45 VDC 20% AL EL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	1011643-0-0	CAP. 10,000 UF 25VDC 20% AL EL	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
15	9009681-01	SEW, TH'D ROLLING SCREW #10X .62	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
16	9009682-01	SEW, TH'D #8-32 X .30	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
17	B-AD-7010850-01	BASE ASSEMBLY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	A-SP-3700184-0-0	PACKAGING INSTRUCTIONS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	D-CS-5411745-0-1	DATA PATH, MEMORY AND DECODES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	D-CS-5411743-0-1	ROM UART AND TIMING	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	B-AD-7010859-0-0	CRT ASSEMBLY	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
23	D-CS-5411170-0-1	KEYBOARD VT51/VT50 H	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
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
26	1-IA-7413432-0-0	BEZEL, KEYBOARD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	B-UA-7010068-0-0	COPIER ASSEMBLY 115V/60 HZ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	B-UA-7010068-1-0	COPIER ASSEMBLY 100/127V, 50/60 HZ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	B-UA-7010068-2-0	COPIER ASSEMBLY 220/240V, 50/60 HZ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9006038-02	P.F.H. MACHINE SCREW #8-32 X .44	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
31	9009681-00	SEW HI-LO SCREW #10 X .50	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
32	C-IA-7413332-0-0	BLANK COVER, HOLDOWN BAR	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
34	1-MD-7412574-0-0	COPIER COVER (VT50)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	1-MD-7412574-1-0	COPIER COVER (VT50)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36	1-AD-7010861-0-0	TRANSFORMER ASSY (115V 60 HZ)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	1-AD-7010861-1-0	TRANSFORMER ASSY (220/240V, 50/60 HZ)	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	1-AD-7010861-2-0	TRANSFORMER ASSY (100V/127V)	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9006563-00	KEPNUT #8-32	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	1	1	1	1	1	1	1
41	1-IA-BN52A-7F	VT52 EIA CARD AND CABLE ASSEMBLY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	1-IA-BN52B-7F	20 MA. ADAPTER ASSY	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
43	1-IA-BN52C-7F	CURRENT LOOP TO 283B PLUG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

REV.	1
CHANGE NO.	VT52-00002
CHK	21
DATE	12/11/76
BY	J. BEATTY

DRN. K. DAVIS	10/17/75	FIRST USED ON	20-0000
CHK'D	S. D. R. 10/16/75	TITLE	UNIT ASSY
ENG	M. J. 10/16/75	VT52	
PROJ. EN	M. J. 10/16/75		
PROD.	M. J. 10/16/75		
NEXT HIGHER ASSY.			
B-DD-VT52-0	SIZE	CODE	NUMBER
SCALE	C	PL	VT52-0-0
SHEET 1 OF 2	DIST.		

NOTES:

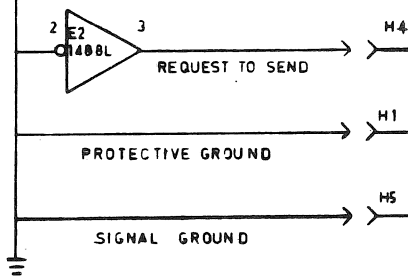
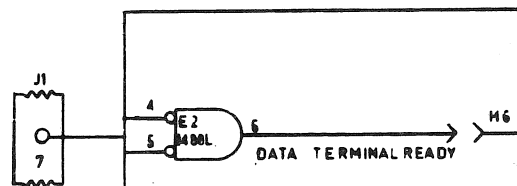
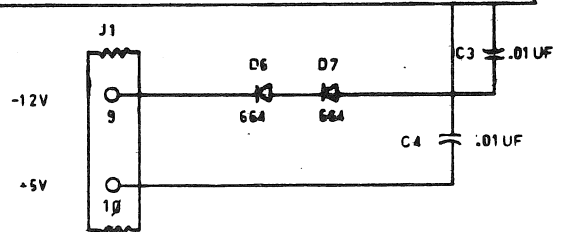
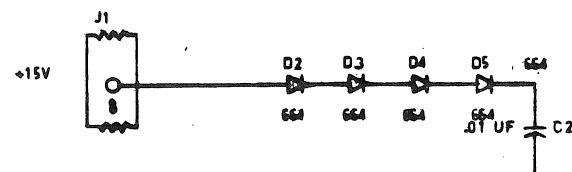
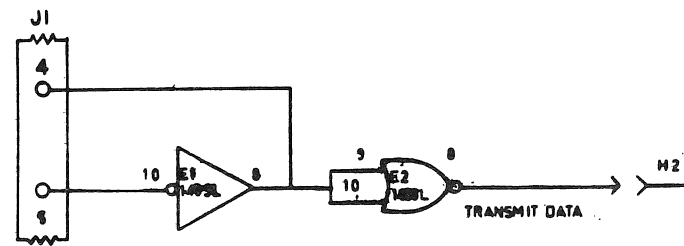
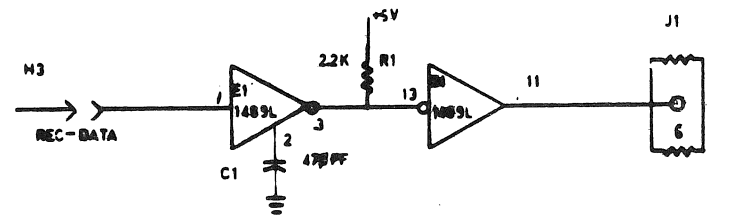
1. THIS CIRCUIT IS REPEATED 12 TIMES ON A $8" \times 16"$ CIRCUIT BOARD
2. ALL DIODES ARE D664
3. MARK = $-15V$ = LOGIC 1
SPACE = $+15V$ = LOGIC 0
4. PLACEMENT OF COMPONENTS IS DEPENDANT ON DEC
DRAWING 45410906, FOR MOUNTING AND CLEARANCE
5. WHEN BUILDING THE DASH "O" VARIATION
THE EXTRA HOLE ON CONN. J1 IS
AS SHOWN BELOW

[illegible]

VT52	VT50
5411448-1	5411448-0
1	-
6	6
6	6
1	1
1	1
1	1
-	2
6	6
3	3
1	1
1	1
REF REF	
REF REF	
REF REF	
QTY QTY	

[illegible]

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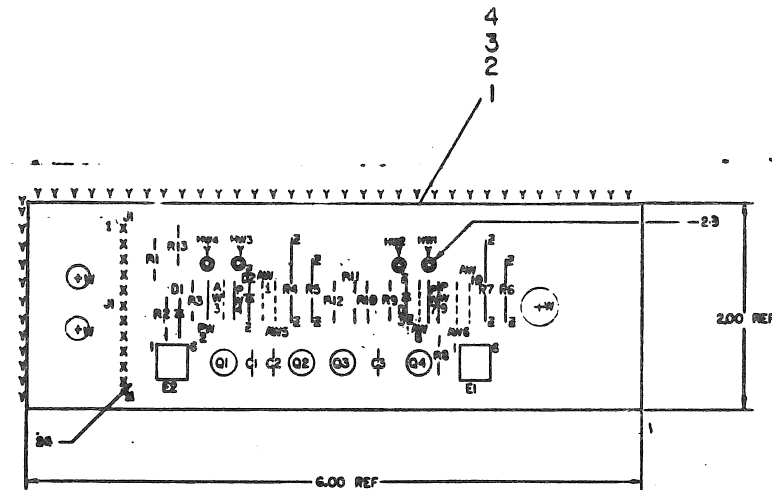


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
VT50 EJA ADAPTER CARD		D	CS 5411448-0-L	C
SCALE		SHEET 2 OF 2		DIST.

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NOTES:



REF		X-Y COORDINATE HOLE LOCATION	KCO-5411755-0-4	1
REF		ASSY/DRILLING HOLE LAYOUT	E-A-5411755-0-5	2
REF		MODULE ECO HISTORY	B-MH-5411755-0-6	3
1		ETCHED CIRCUIT BOARD	5411755	4
2	C1, C2	CAP. 270PF 100V DM	1000022	5
1	C3	CAP. .01uF 100V DISC	1001210-01	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%	1300305	10
1	R11	RES. 750 1/4W 5%	1300301	11
2	R12, R13	RES. 7.5K 1/4W 5%	1300323	12
1	R2	RES. 68K 1/4W 5%	1300327	13
1	R10	RES. 120K 1/4W 5%	1300339	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 @ .5-85V)	1100531	17
2	D2, D3	DIODE 1N4004	1105736	18
1	Q1	TRANS. SILICON, A55 PNP	1510706	19
1	Q2	TRANS. SILICON, A05 NPN	1510705	20
2	Q3, Q4	TRANS. DEC 6531B NPN	1509339	21
2	E1, E2	PHOTO OPTIC COUPLER	1911918	22
4	HEX - NUTS	EYELET, FLANGED	900730	23
355	J1	HEADER, 11 POSITION	1225104	24
AR	PW2, PW4, PW7, PW9	WIRE, BUSS #22AWG	9107560-01	25

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV. B				
DRN. Silvio DATE 6-11-75				
CHKD. DATE 6-29-75				
ENG. DATE 7-1-75				
PROJ. ENG. DATE 8/29/75				
REV. DATE 8/24/75				
NEXT HIGHER ASSY				
I-1A-BN52B-0-0				
SCALE 1 OF 2				
SHEET 1 OF 2				
TITLE 20 MA ADAPTER CARD				
SIZE CODE NUMBER REV.				
DCS 5411755-0-1 A				

11 Morgan/EPD 11 Nov 76	M. MORGAN/STERN	2-17-76	A	5411755-00001	#	REV.
ORIGINATED						CHG
CHANGE NO.						REV.
REVISIONS						

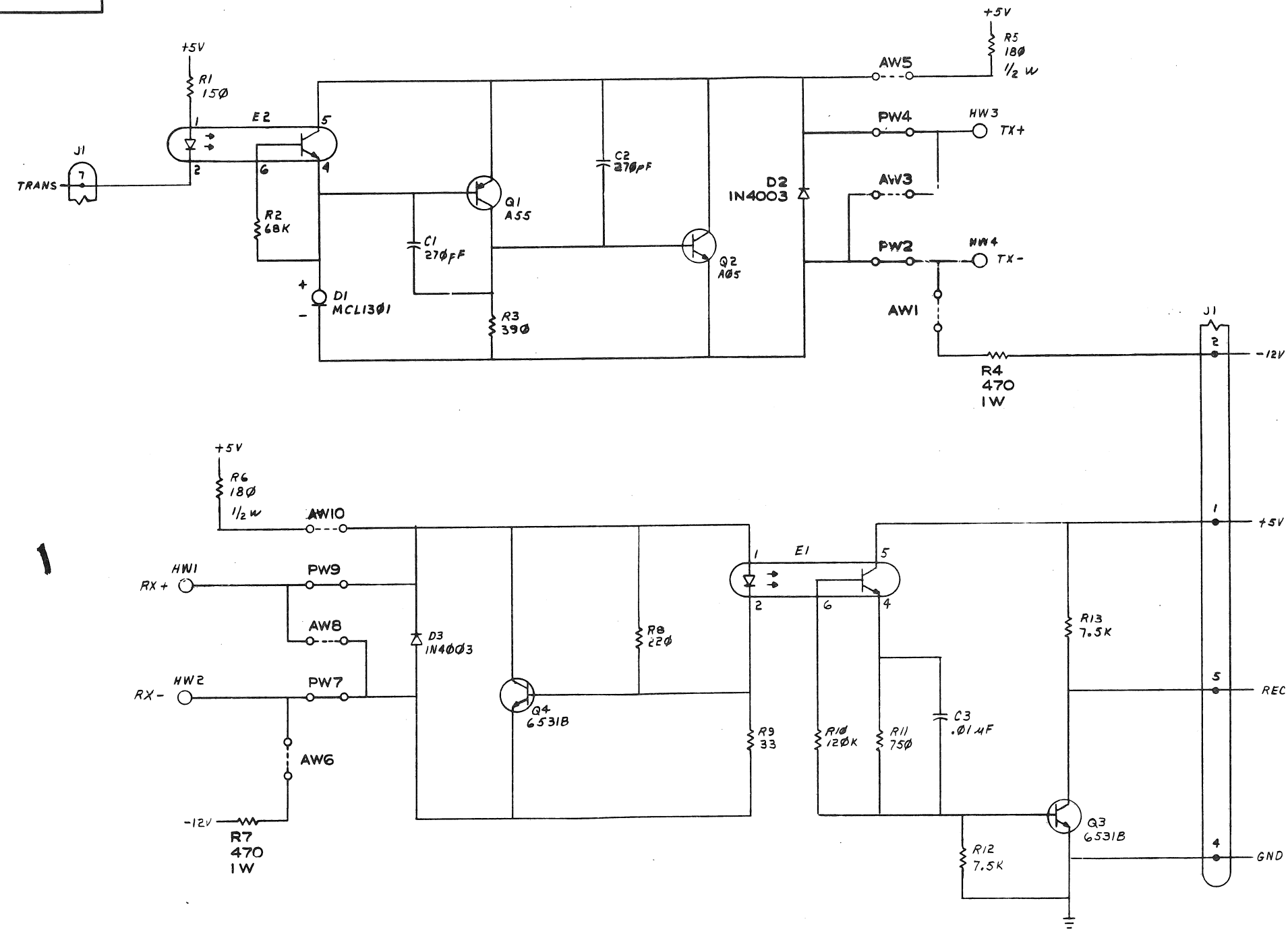
FIRST USED ON OPTION MODEL
VT52

SEMICONDUCTOR CONVERSION CHART

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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.

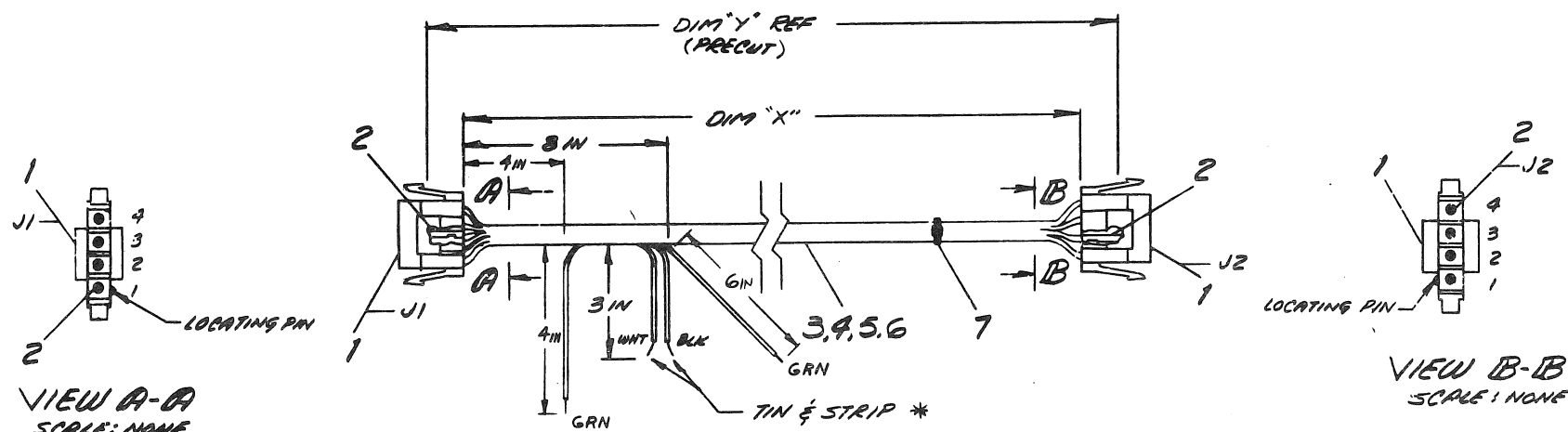
TITLE		DCS 5411759-0-1		REV.
20MA ADAPTER CARD		A		
SCALE		SHEET 2 OF 2		

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LEGEND		
NUMBER	VARIATION	
	DIM "X"	DIM "Y" REF
7011867-1	16 IN. $\pm$ 1 IN.	17 IN. $\pm$ 1 IN.

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

* INDICATES TIN & STRIP



2	TERMINAL, RING TONGUE	9007930-01	9
NR	WIRE, #18 AWG GRN	9107360-55	8
NR	TIE WRAP	9007031-00	7
NR	WIRE, #18 AWG RED/YEL	9107410-29	6
NR	WIRE #18 AWG WHT	9107360-99	5
NR	WIRE #18 AWG BLK	9107360-00	4
NR	WIRE #18 AWG RED	9107360-22	3
8	SOCKET, TERMINAL	1209379-00	2
2	SOCKET, HOUSING	1209350-00	1

QUANTITY & VARIATION	DESCRIPTION	DWG./PART NO.	ITEM NO.
THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
REMOVE BURRS AND BREAK SHARP CORNERS	ANGLES 10° 30°	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES
DO NOT SCALE DWG	SURFACE QUALITY IN	MEDIUM	OVER 0 TO 0.2
MATERIAL SEE PARTS LIST	MICROINCHES	PREFERRED	OVER 0.2 TO 0.4
FINISH			OVER 0.4 TO 0.6
			OVER 0.6 TO 0.8
			OVER 0.8 TO 1.0
			OVER 1.0 TO 1.2
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