

ENGINEERING DIAGRAMS SET

HP 250 COMPUTER SYSTEM

PRINTING HISTORY

New editions incorporate all update material since the previous edition. Update packages, which are issued between editions, contain additional and replacement pages to be merged into the manual by the customer. The date on the title page and back cover changes only when a new edition is published. If minor corrections and updates are incorporated, the manual is reprinted but neither the date on the title page and back cover nor the edition change.

First Edition June 1982

NOTICE

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1.0 INTRODUCTION

The Engineering Diagrams Set covers all CSY-made replaceable parts and test connectors used in the HP 250. They provide information for the following purposes:

- a. training in system concepts
- b. assembly and disassembly
- c. parts identification and location
- d. signal tracing between subsystems in the system.

The diagrams set is designed for use by maintenance personnel who have attended the HP 250 Account CE Course. A thorough understanding of the information presented in this course is assumed and is essential to use this material.

The diagrams in this set are direct reproductions of selected HP 250 manufacturing drawings and schematics. This procedure results in greater accuracy, faster response, and lower cost. The key is that both the factory and the field work from the same data base. The book is kept up-to-date via subscription service.

2.0 ORGANIZATION AND INDEX

The diagrams are arranged numerically using the Manufacturing Specifications drawing numbers. The index is sorted numerically by drawing number. Those drawings changed from the previous index (of last update package) have an "X" in the "Chg" column.

3.0 DRAWING NUMBER/INDEX EXPLANATIONS

A drawing number looks like this:

B-	45000-67916-1	1/2	D
Original size of drawing		Sheet X of Y	Revision level of drawing
	Sub-drawing number and revision level of assembly		

Original size of the drawing -- this is needed to find the drawing in the Manufacturing Specifications files.

Sub-drawing number and revision level of assembly -- these two facts are combined in one two-digit number: sub-drawing 1 is numbered 1, 11, 21, 31, etc. as the assembly is revised; sub-drawing 6 is numbered 6,16, 26, and so forth.

Sheet X of Y -- A drawing number can consist of several sheets.

Revision level of drawing -- this letter corresponds to the last letter used in the revision note box in the upper right-hand corner of the drawing.

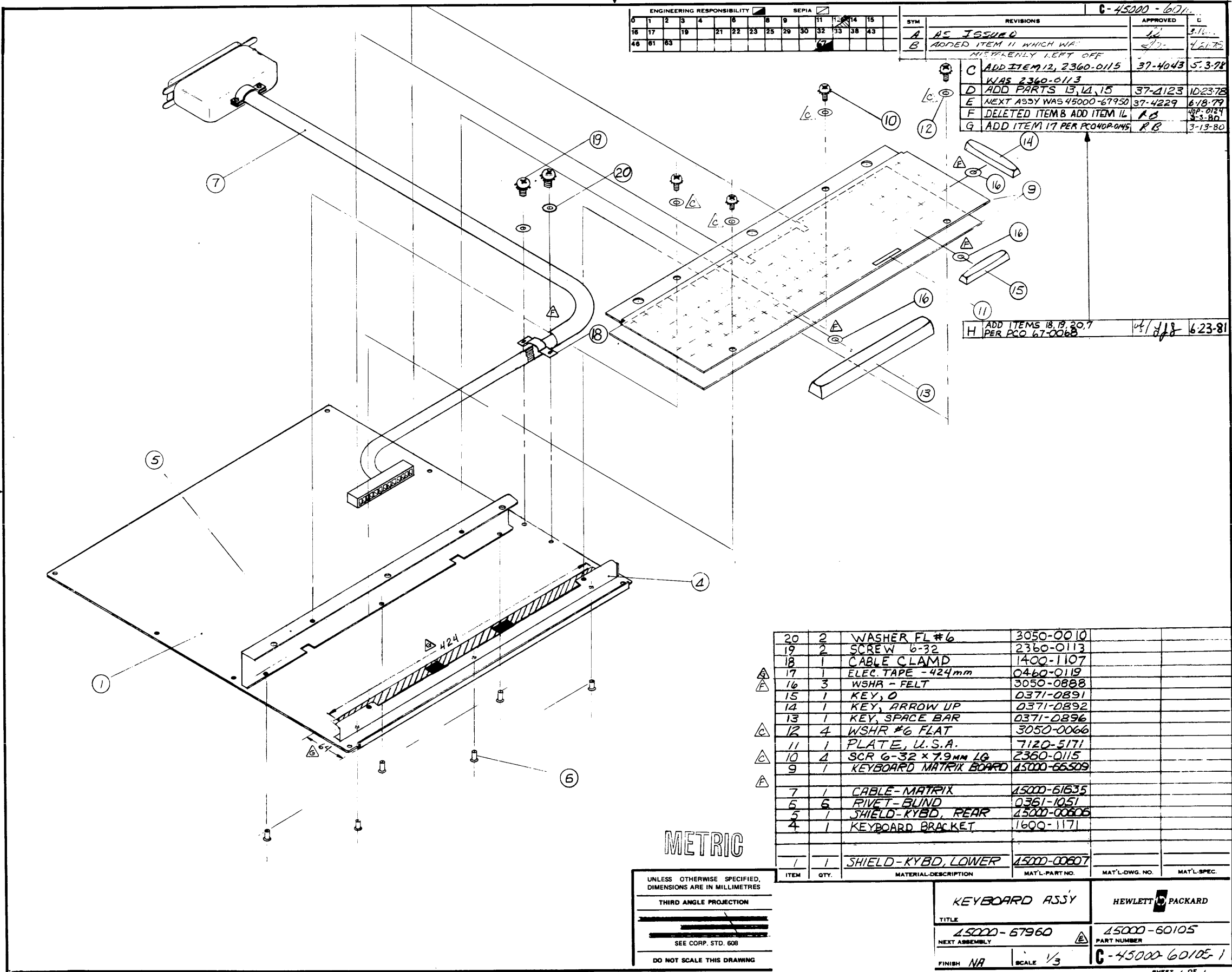
Via update packages through the subscription service, subscribers receive all significant revisions of each diagram. Gaps occur in this sequence to skip drawing versions covering such things as product revisions not shipped, minor manufacturing corrections, etc.

INDEX SORTED BY DRAWING NUMBER

Title	Drawing Number	Pg Rev Chg	Title	Drawing Number	Pg Rev Chg
Keyboard Assy.	C- 45000-60105-1	H	Keyboard Logic P.C. Assembly	F- 45000-66508-41	B
Cable, Keyboard	C- 45000-61601-1	H	Keyboard Logic PC Board	D- 45000-66508-46	B
Cable, Assembly CRT	B- 45000-61605-1	1/2 G	Keyboard P.C. Assembly	F- 45000-66509-31	B
Cable, Assembly CRT	B- 45000-61605-1	2/2 G	Power Supply Assembly	F- 45000-66511-21	C
Cable, Speaker CRT	B- 45000-61607-1	B	Power Supply	D- 45000-66511-26	B
Cable - Intensity CRT	B- 45000-61608-1	B	Soft Key Board Assembly Drawing	D- 45000-66512-1	D
Cable, ON-OFF	B- 45000-61614-1	E	64 K-Byte Assembly	F- 45000-66513-1	C
Cable Display	C- 45000-61616-1	C	64K-byte Memory Board	D- 45000-66513-6	B
Cable, 24V DC Internal	B- 45000-61617-1	E	64K-Byte Memory Bd. Timing Diagram	C- 45000-66513-9	1/2 A
Cable, 24V DC External	B- 45000-61618-1	C	SAM 32K Memory Bd. Block Diagram	C- 45000-66513-9	2/2 A
Cable LED	B- 45000-61625-1	B	Block Switch Reg. Instruction Map	C- 45000-66514-9	1/4 A
Cable AC Power	B- 45000-61626-1	B	Block Switch Bd. Timing Signals	C- 45000-66514-9	2/4 A
Cable, Floppy AC	B- 45000-61630-1	B	SAM Block Switch Block Diagram	C- 45000-66514-9	3/4 A
Cable, Floppy DC	B- 45000-61631-1	D	Write Protect Circuitry Diagram	C- 45000-66514-9	4/4 A
Cable, AC Power Fans	B- 45000-61632-1	C	Block Switch Assembly	F- 45000-66514 11	B
Cable, DC Power Floppys	B- 45000-61633-1	A	Block Switch Key and Instruction Decode	D- 45000-66514-16	1/2 A
Cable - Keyboard Matrix	D- 45000-61635-1	A	Block Switch Board Write Protect Circuit	D- 45000-66514-16	2/2 A
Cable, Power Supply	B- 45000-61639-1	C	Ref Locator (AC/DC power to floppy)	B- 45000-66515-1	A
Cable, Floppy Controller	C- 45000-61640-1	E	Assembly 32 K-Byte P.C.	F- 45000-66523-1	A
Cable, 9895 DC	B- 45000-61641-1	A	32K-byte Memory Board Schematic	D- 45000-66523-6	B
Cable, 9895 Controller	C- 45000-61642-1	B	Ref Locator (Xformer box PCA)	B- 45000-66528-1	A
Wire Set - Primary Power	B- 45000-61644-1	A	Transformer Box BD Schematic	B- 45000-66528-6	A
CRT Socket Cable	B- 45000-61645-1	A	PC Assembly Transformer Box	D- 45000-66529-1	A
P.C. Assembly (CRT)	F- 45000-66501-11	E	Transformer Box BD Schematic	B- 45000-66529-6	A
CRT Deflection Board	D- 45000-66501-16	B	Assembly 128 K Memory	F- 45000-66533-1	A
PCA - Mother	D- 45000-66504-16	A	128K-byte Memory	D- 45000-66533-6	B
SAM Processor BD Block Diagram	C- 45000-66505-29	1/2 A	CRT Deflection	D- 45000-66562-6	B
Motherboard and ROM Timing Diagram	C- 45000-66505-29	2/2 A	Processor Board Assy.	F- 45000-66565-21	A
Display P.C. Board Assembly	F- 45000-66506-21	B	Processor Board Schematics	D- 45000-66565-26	A
IDA Bus Interface	C- 45000-66506-26	1/5 A	RS232LC Connector Panel	D- 45000-66566-6	B
Seq. Addr. Scan Logic Select Switches	C- 45000-66506-26	2/5 A	250 CRT Assembly	D- 45000-67905-1	E
Read/Write Refresh Memory	C- 45000-66506-26	3/5 A	Tub Assembly	D- 45000-67916-1	1/2 D
Video Character Generator	C- 45000-66506-26	4/5 A	Tub Assembly	D- 45000-67916-1	2/2 A
Timing Signal Generator	C- 45000-66506-26	5/5 A	Main XFMR Set	C- 45000-68816-1	A
Digital Display Electronics Block Dia.	D- 45000-66506-29	A	Keyboard Matrix Service Cable	C- 45000-68835-1	A
SAM HP-IB Interface Block Diagram	D- 45000-66507-46	1/5 A	SAM Primary Wiring	B- 45000-90312-1	D
SAM HP-IB Interface Data Channel	D- 45000-66507-46	2/5 A	Structure "250" CSB	D- 45000-99999-1	C
SAM HP-IB Interface Control Logic	D- 45000-66507-46	3/5 A	Structure "250" CSB (BGD)	D- 45000-99999-1	C
SAM HP-IB Interface Control Machines	D- 45000-66507-46	4/5 A	Cable Assy. DC Power	B- 45012-61600-1	A
SAM HP-IB Interface ASM Chart	D- 45000-66507-46	5/5 A	Cable Assy. Fan Power	B- 45012-61601-1	A

INDEX SORTED BY DRAWING NUMBER

Title	Drawing Number	Pg Rev Chg	Title	Drawing Number	Pg Rev Chg
Cable Assembly AC Power	C- 45012-61602-1	A	Top & Keyboard Assy. Orig. Tub	D- 45250-90002-2	2/5 A
Wire Set - Power Supply	B- 45012-61608-1	A	Mainframe Assembly Orig. Tub	D- 45250-90002-3	3/5 A
Power Supply Assembly	D- 45012-66521-1	1/2 E	Mainframe Assembly Orig. Tub	D- 45250-90002-4	4/5 A
Power Supply Assembly	D- 45012-66521-1	2/2 A	Transformer Box Assembly	D- 45250-90002-5	5/5 A
Power Supply Schematic	C- 45012-66521-6	E	HP 250 Table Top/Leg Installation Dwg.	D- 45250-90003-1	A
Transformer Assy.	B- 45012-67902-1	A	System Floppy 45250K	D- 45250-90004-1	A
12M-byte Disc Final Assembly	D- 45012-90001-1	C	U.S. Primary Power Assembly Wiring	B- 45251-61211-2	C
12M-byte Disc Final Assembly	D- 45012-90001-2	A	Primary & Secondary Conn. PCA	D- 45259-66504-6	A
12M-byte Disc Final Assembly	D- 45012-90001-3	A	45259 Mainframe Power Supply Module	D- 45259-90000-1	B
Fan Cover 120V - US	D- 45090-64101-1	B	45259 Mainframe Card Cage Module	D- 45259-90000-2	A
Fan Cover 220V - European	D- 45090-64102-1	D	45259 Mainframe Final Assembly	D- 45259-90000-3	C
Stand Assembly	D- 45090-67905-1	1/2 A	45259 Mainframe Configuration & Clean-Up	D- 45259-90000-4	A
Stand Assembly	D- 45090-67905-1	2/2 A	Floppy Disc Assembly	D- 45273-90001-1	A
Modem Cable (Asynchronous)	C- 45111-61601-1	E	Deflection Yoke	C- 9100-4079-1	B
Current Loop Cable (Asynchronous)	C- 45112-61602-1	D	Power Transformer 475 VA	C- 9100-4149-1	1/2 B
Direct Connection Cable (Asynchronous)	C- 45113-61603-1	D	Power Transformer 475 VA	C- 9100-4149-1	2/2 A
Cable, Async	C- 45120-61600-1	B			
Functional Block Diagram (Asynch)	C- 45120-66550-9	A			
PCB Assembly Async Data	F- 45120-66550-11	C			
Schematic Proc. & Memory (Async)	D- 45120-66550-16	1/3 B			
Schem. UARTs & RS232C Data Comm. (Async)	D- 45120-66550-16	2/3 B			
Schem. Timing & Control Comm. (Async)	D- 45120-66550-16	3/3 B			
Cycle Steal Timing Diagram (Asynch)	C- 45120-66550-19	1/2 A			
RAM & ACIA Timing Diagrams (Asynch)	C- 45120-66550-19	2/2 A			
Ref. Locator (Async Connector Panel)	B- 45120-66551-2	A			
RS-232C Conn. Panel (Asynch)	D- 45120-66551-6	A			
Cable Sync Connector (Synchronous)	C- 45122-61600-1	A			
Synchronous Direct Connect Cable	C- 45122-61601-1	B			
Modem/ACU Cable	C- 45122-61602-1	A			
Self-Test Hood Auto Calling	B- 45122-62101-1	B			
Self-Test Hood Async/Sync	B- 45122-62102-1	B			
Assembly Data Sync Board	F- 45122-66560-1	D			
Schematic MC-5 and Memory (Synch)	D- 45122-66560-6	1/3 B			
Schematic HP250 Interface (Synch)	D- 45122-66560-6	2/3 B			
Schematic DMA, Timer, and Data (Synch)	D- 45122-66560-6	3/3 B			
Functional Block Diagram (Synch)	D- 45122-66560-9	A			
RS232C Synchronous Interface Panel	D- 45122-66561-6	A			
Mainframe, Standard	D- 45250-90001-1	1/2 G			
Mainframe, Standard	D- 45250-90001-1	2/2 A			
250 System Assy. Orig. Tub	D- 45250-90002-1	1/5 A			



ENGINEERING RESPONSIBILITY												SEPIA																																																																																								
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

REVISIONS		APPROVED	
SYM	REVISIONS	APPROVED	C
A	AS ISSUED		
B	ADDED ITEM 11 WHICH WAS MISTAKENLY LEFT OFF		
C	ADD ITEM 12, 2360-0115 WAS 2360-0113	37-4043	5.3.78
D	ADD PARTS 13, 14, 15	37-4123	10.23.78
E	NEXT ASSY WAS 45000-67950	37-4229	6.18.79
F	DELETED ITEM B ADD ITEM 14	R.B.	4.3.80
G	ADD ITEM 17 PER PC040P-045	R.B.	3.13.80
H	ADD ITEMS 18, 19, 20, 7 PER PC0 67-0068		6.23.81

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
20	2	WASHER FL #6	3050-0010		
19	2	SCREW 6-32	2360-0113		
18	1	CABLE CLAMP	1400-1107		
17	1	ELEC TAPE - 424mm	0460-0119		
16	3	WSHR - FELT	3050-0888		
15	1	KEY, O	0371-0891		
14	1	KEY, ARROW UP	0371-0892		
13	1	KEY, SPACE BAR	0371-0896		
12	4	WSHR #6 FLAT	3050-0066		
11	1	PLATE, U.S.A.	7120-5171		
10	4	SCR 6-32 x 7.9mm LG	2360-0115		
9	1	KEYBOARD MATRIX BOARD	45000-65509		
7	1	CABLE-MATRIX	45000-61635		
6	6	RIVET-BLIND	0361-1051		
5	1	SHIELD-KYBD, REAR	45000-00606		
4	1	KEYBOARD BRACKET	1600-1171		
1	1	SHIELD-KYBD, LOWER	45000-00807		

METRIC

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

SEE CORP. STD. 608

DO NOT SCALE THIS DRAWING

KEYBOARD ASSY		HEWLETT PACKARD	
TITLE	45000-67960	PART NUMBER	45000-60105
NEXT ASSEMBLY		PART NUMBER	
FINISH	NA	SCALE	1/3
		C-45000-60105-1	

ENGINEERING RESPONSIBILITY														REVISIONS		APPROVED			
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	REV	DATE	APPROVED	DATE
																A	AS ISSUED	BS	1-28-72
																B	REACTIVELY OBSOLETE BY PC 437-4023		12-5-78
																C	NEXT ASSY WAS 45000-67906		6-19-79
																D	1900 WAS 2000		8-24-79
																E	CONN #2, PIN 5 GOES TO CONN #3, PIN 39 NOT 37	TL/SL	8-24-79
																F	(REDRAW DRG) CHNG NOTE 2-ADD NOTE 8,9	WS/AA	10-1-80

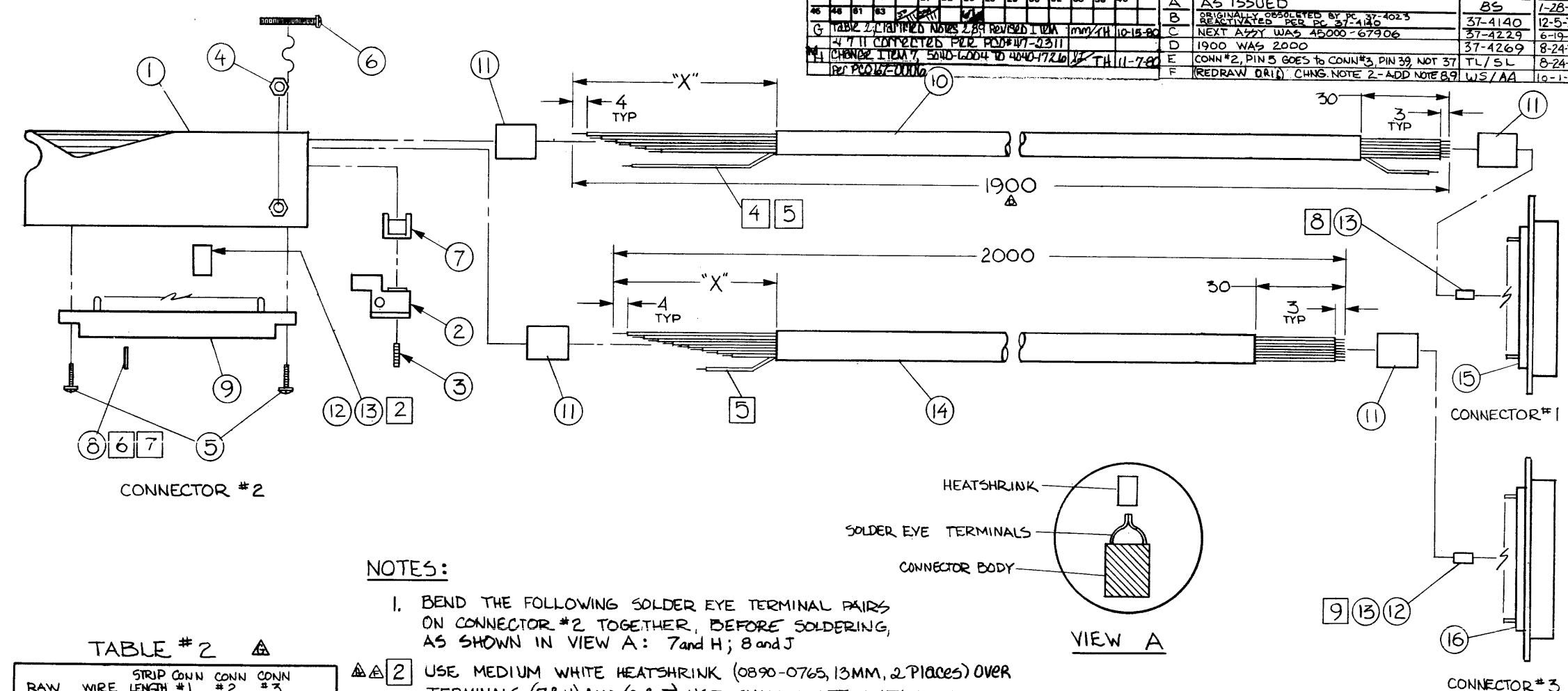
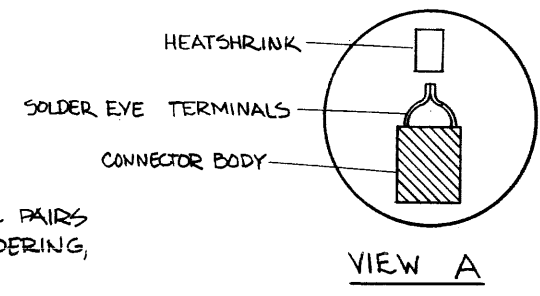


TABLE # 2

RAW CABLE	WIRE COLOR	LENGTH *X*	STRIP CONN			SIGNAL
			#1 PIN*	#2 PIN*	#3 PIN*	
8120-1950	VIO	70	1	1	-	S7
	BLU	70	20	A	-	S6
	GRN	65	3	2	-	S5
	YEL	65	22	B	-	S4
	ORN	60	5	3	-	S3
	RED	60	24	C	-	S2
	BRN	55	7	4	-	S1
	BLK	55	26	D	-	S0
	WHT/BLK	50	9	5	-	GRD
	SHIELD	50	13	5	-	GRD
	GRA	50	28	E	-	SPKR
	WHT	45	11	6	-	+12V
	GRA	50	-	F	1	-12V
	BLK	50	-	7	26	GRD
8120-2599	WHT/RED	50	-	8	3	+5V
	WHT/BLU	45	-	9	5	SRING
	WHT/GRN	45	-	K	7	3RD
	WHT/BRN	45	-	10	41	PHI 1
	WHT/ORN	45	-	L	9	PHI 3
	WHT/BLK	40	-	11	11	GRD
	SHIELD	40	-	M	17&18	GRD
	YEL	40	-	12	13	A-PHI
	WHT/YEL	40	-	N	15	A4-PHI
	BRN	35	-	13	29	A1
	RED	35	-	P	31	A2
	ORN	30	-	14	33	A3
	GRN	30	-	R	35	A5
	BLU	25	-	15	37	A6
VIO	25	-	3	39	A7	

NOTES:

- BEND THE FOLLOWING SOLDER EYE TERMINAL PAIRS ON CONNECTOR #2 TOGETHER, BEFORE SOLDERING, AS SHOWN IN VIEW A: 7 and H; 8 and J
- USE MEDIUM WHITE HEATSHRINK (0890-0765, 13MM, 2 PLACES) OVER TERMINALS (7&H) AND (8&J). USE SMALL, WHITE HEATSHRINK (0890-0100) OVER ALL OTHER TERMINALS.
- CLIP EXTRA WIRE (WHT/BRN) ON CABLE 8120-1950 ONLY. DO NOT CLIP WHT/BRN ON 8120-2599.
- FORM SHIELD INTO DRAIN WIRE.
- COVER DRAIN WIRE W/ SMALL HEATSHRINK (0890-0100)
- PUT POLARIZING KEY (8) IN SLOT BETWEEN PINS 6 & 7.
- USE ALPHA GLUE (0470-0010) TO HOLD ITEM (8) IN CONNECTOR #2.
- USE HEATSHRINK (0890-0100, 10MM EACH) ON ALL CONN #1 LEADS
- USE MEDIUM, WHITE HEATSHRINK (0890-0765, 10MM, 2 PLACES) OVER TERMINALS (26&27) AND (17&18). USE SMALL, WHITE HEATSHRINK (0890-0100, 10MM, EACH) OVER ALL OTHER TERMINALS.



ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
16	1	CONNECTOR, 50 PIN	1251-0087		
15	1	CONNECTOR, 36 PIN	1251-0085		
14	2000mm	CABLE, 15-#26, 1#18	8120-2599		
13	600mm	HEATSHRINK	0890-0100		
12	46mm	HEATSHRINK	0890-0765		
11	60mm	HEATSHRINK	0890-0708		
10	1900mm	CABLE-12-#26	8120-1950		
9	1	CONNECTOR, 2x15	1251-0159		
8	1	POLARIZING KEY	1251-1115		
7	1	CLAMP, SMALL	4040-1726		
6	1	SCREW, #4-40	2200-0091		
5	2	SCREW, SELF-TAPPING	0624-0098		
4	1	NUT: #4-40 .188 AF	2200-0002		
3	1	SET SCREW	3030-0143		
2	1	MOUNTING BLOCK	5040-6072		
1	1	HOOD CONNECTOR	5040-6086		

DO NOT SCALE THIS DRAWING

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS TOLERANCES .XX ± .02 .XXX ± .005

SEE CORP. STD. 608

DRAWN BY: _____ DATE: _____

ENGINEER: _____

RELEASE TO PRD: _____

SUPERSEDES DWG: _____

TITLE: CABLE, KEYBOARD

45000-67916

NEXT ASSEMBLY: _____

FINISH: _____

SCALE: NONE

HEWLETT-PACKARD

45000-61601-1

PART NUMBER

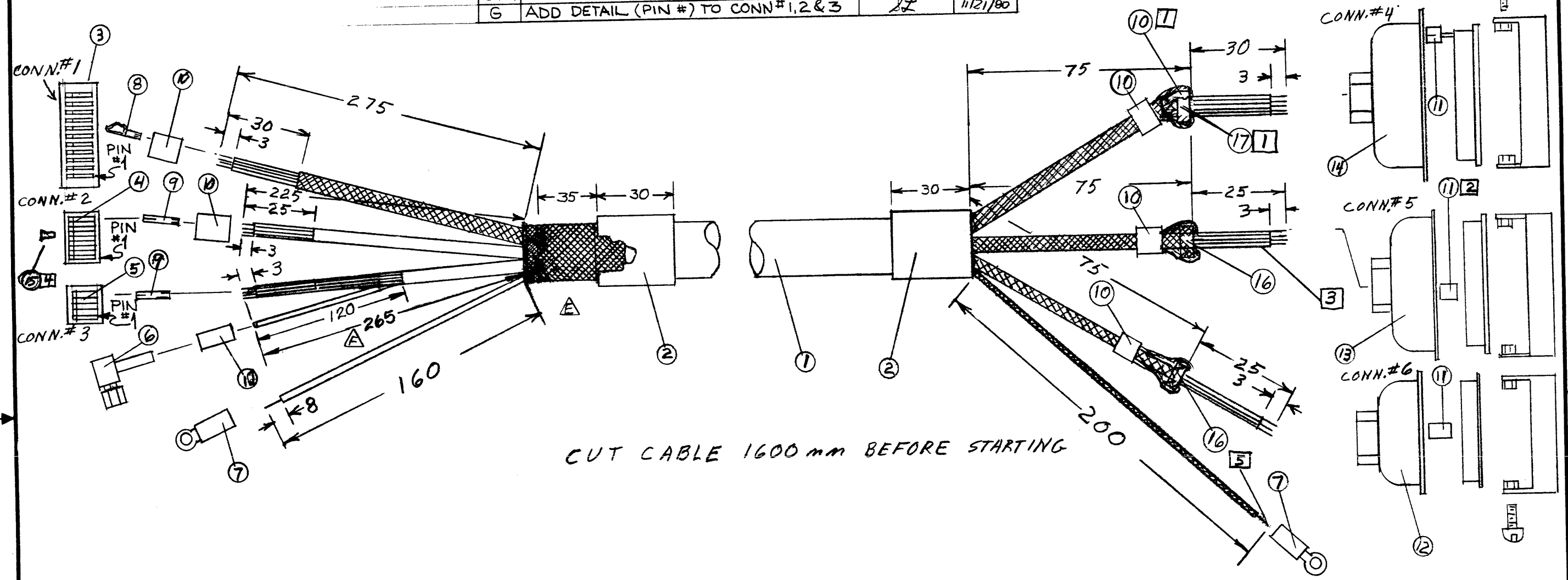
C-45000-61601-1

ENGINEERING RESPONSIBILITY														SEPIA		
0	1	2	3	4	6	8	9	11	12	14	15					
16	17		19		21	22	23	25	29	30	32	33	38	43		
45	46	61	63													

B-45000-61605-1

SYM	REVISIONS	APPROVED	DATE
D	REDRAWN	37-4267	8-21-79
E	DELETE ITEM 18	37-4305	9-28-79
F	265 WAS 225, ADDED 120 DIM PER PC040P-0131	RB	3-7-80

SYM	REVISIONS	APPROVED	DATE
G	ADD DETAIL (PIN #) TO CONN #1, 2 & 3	RB	11/21/80



CUT CABLE 1600 mm BEFORE STARTING

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
 XX.X ± 0.2 mm or ± 0.1 mm
 STRIKE OUT ONE XX AND ONE XX.X
 SEE CORP. STD. 608

DO NOT SCALE THIS DRAWING

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
DRAWN BY		DATE		TITLE	
ENGINEER		RELEASE BY/PRD.		SUPERSEDES DWG.	
CABLE, ASSY		45000-67905		HEWLETT PACKARD	
CRT		NEXT ASSEMBLY		PART NUMBER	
FINISH		SCALE		B-45000-61605-1	
		NONE		SHEET 1 OF 2	

ENGINEERING RESPONSIBILITY												SEPIA			
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47

B-45000-61605-1

SYM	REVISIONS	APPROVED	DATE
D	REDRAWN	37-4267	8-21-79
E	DELETE ITEM 18, P/N 0460-1418	37-4305	9-28-79
F	CHANGES PG 1 PER PCD 40P-0131	R.B.	3-7-80
G	ADD DETAIL (PIN#) TO CONN #1, 2 & 3	J.S.	11/21/80

CONN.#	PIN#	COLOR	SIGNAL	CONN.#	PIN#	COLOR	SIGNAL
1	1	VIO	57	4	1	VIO	57
	2	BLU	56		3	GRN	55
	3	GRN	55		5	ORN	53
	4	YEL	54		7	BRN	51
	5	ORN	53		9	WHT/BLK	GRD
	6	RED	52		11	WHT	+12V
	7	BRN	51		13	SHIELD	GRD
	8	BLK	50		20	BLU	56
	9	GRA	SPKR		22	YEL	54
	10	WHT	+12V		24	RED	52
	11	WHT/BLK	GRD		26	BLK	50
					28	GRA	SPKR
2	1	WHT/ORN	V-REG	5	1	WHT/BLU	-12V
	3	BLU	V-SENS		3	ORN	+5V
	6	BRN	GRD		5	YEL	+12V
	7	WHT/BRN	GRD		8	BLU	V-SENS
	8	WHT/BLU	-12V		12	WHT/ORN	V-REG
	9	YEL	+12V		14	BRN	GRD
	10	ORN	+5V		16	WHT/BRN	GRD
					18	SHIELD	GRD
3	1	WHT(W/RED)	GRD	6	1	COAX, CORE	VIDEO
	2	RED	VER. DRV		3	BLU	HR. DRV.
	3	WHT(W/BLU)	GRD		5	RED	VER. DRV.
	4	BLU	HR. DRV		8	COAX, SHIELD	GRD
					10	WHT(W/BLU)	GRD
					12	WHT(W/RED)	GRD
					14	CABLE SHIELD	GRD

NOTE.

- CONN.#4 PLACE METAL SLEEVE #0362-0249 OVER SHIELDING TO DIM. INDICATED. PLACE HEATSHRINK #0890-0708 OVER SLEEVE & SHRINK. FOLD SHIELD BACK OVER SLEEVE & SECURE WITH HEATSHRINK ON CONN.#5. USE METAL SLEEVE #0362-0309 & REPEAT ABOVE ON CONN.#6. PLACE HEATSHRINK, METAL SLEEVE #0362-0309 & CONN. HOUSING OVER SHIELDING & MAKE SOLDER CONNECTIONS BEFORE REPEATING SHIELD TERMINATION
- ON CONNECTORS 4, 5 & 6 PLACE HEATSHRINK #0890-0100 OVER SOLDER CONNECTIONS
- PLACE HEATSHRINK #0890-0100 OVER DRAIN WIRES TO CONN. 4, 5 & 6

ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
17	1	SLEEVE, METAL	0362-0249		
16	2	SLEEVE, METAL	0362-0309		
15	2	PIN, POLARIZING	1251-3808		
14	1	CONNECTOR, 36 PIN	1251-0084		
13	1	CONNECTOR, 24 PIN	1251-0293		
12	1	CONNECTOR, 14 PIN	1251-0142		
11	90mm	HEATSHRINK	0890-0100		
10	160mm	HEATSHRINK	0890-0708		
9	11	RECEPTACLE, CRIMP	1251-4182		
8	11	TERMINAL, CRIMP	1251-3073		
7	2	TERMINAL, RING, CRIMP	0362-0097		
6	1	CONNECTOR, COAX	1250-0825		
5	1	HOUSING, CONN., 5 POS	1251-5043		
4	1	HOUSING, CONN., 10 POS	1251-4565		
3	1	HOUSING, CONN., 11 POS	1251-5125		
2	60mm	HEATSHRINK	0890-1040		
1	1600mm	CABLE	8120-2814		

NOTES: (CONT)

- PLACE ITEMS 15 IN POS 2 & 5 OF CONN.# 2
- PULL SHIELD BACK & STRIP 5mm OF INSULATION FROM GRN/YEL WIRE PULL SHIELD BACK OUT & SECURE SHIELD & CONDUCTOR IN ITEM 7

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

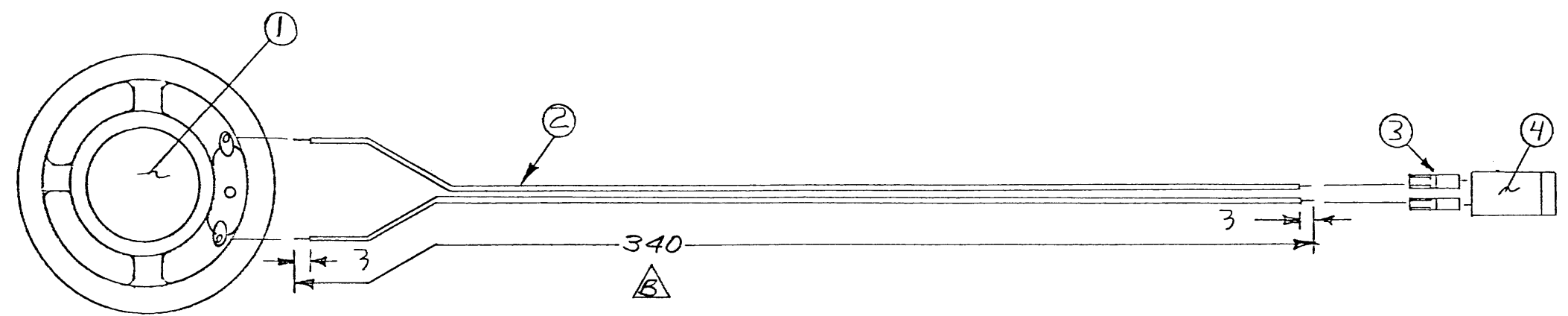
TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
 XX.X ± 0.2 mm or ± 0.1 mm
 STRIKE OUT ONE XX AND ONE XX.X
 SEE CORP. STD. 608

DO NOT SCALE THIS DRAWING

DRAWN BY	DATE	CABLE, ASSY CRT	HEWLETT PACKARD
ENGINEER			
RELEASE TO PROD.		45000-67905	PART NUMBER
SUPERSEDES DWG.		NONE	B-45000-61605-1
		SCALE	

ENGINEERING RESPONSIBILITY <input checked="" type="checkbox"/>												SEPIA <input checked="" type="checkbox"/>			
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
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48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79

SYM		REVISIONS	APPROVED	DATE
A	AS ISSUED		RS	1-28-78
B	DIM. 340 WAS 200		37-4085	7-24-78



4	1	HOUSING, CONN., 2 PIN	1251-4145		
3	2	TERMINAL, CRIMP	1251-3073		
2	2	WIRE, GRA, 24AWG, 340MM	8150-D295	$\triangle B$	
1	1	SPEAKER, ϕ 50MM	9160-D229		
ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

TOLERANCES: XX \pm 0.5 mm ϕ \pm 0.4 mm
 XX.X \pm 0.2 mm ϕ \pm 0.1 mm
 STRIKE OUT ONE XX AND ONE XX.X
 SEE CORP. STD. 608

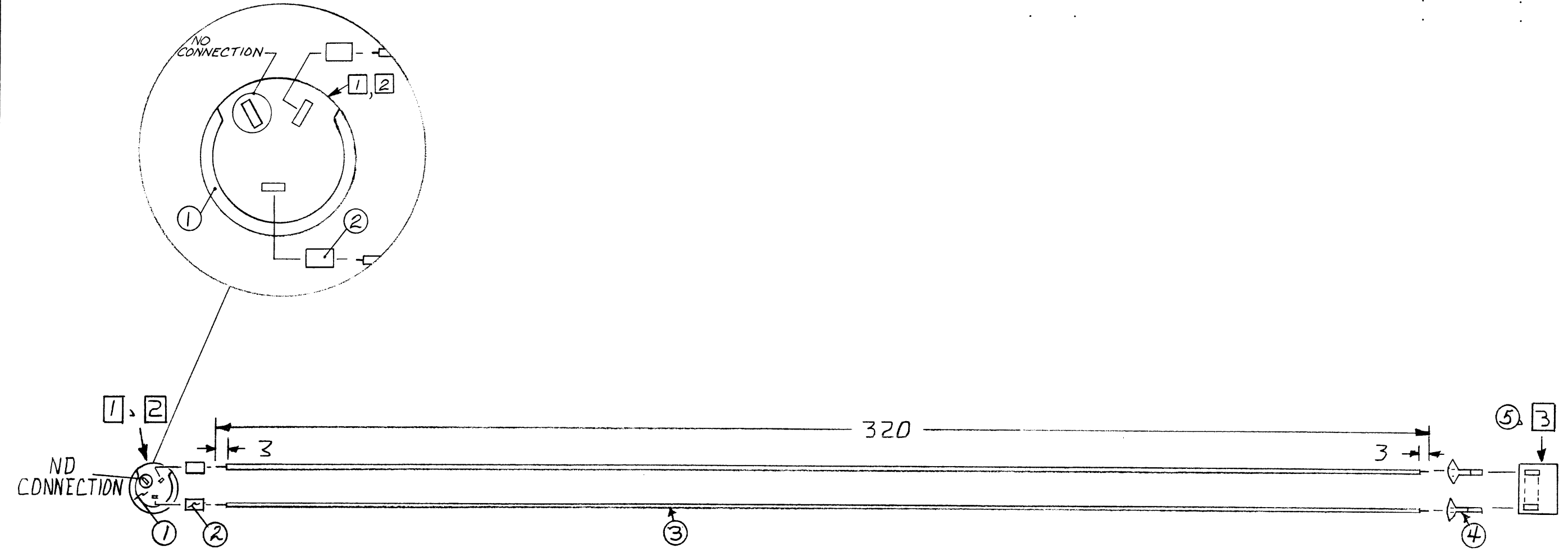
DO NOT SCALE THIS DRAWING

DRAWN BY	DATE	TITLE CABLE, SPEAKER CRT	HEWLETT PACKARD
ENGINEER		NEXT ASSEMBLY 45000-67905	PART NUMBER 45000-61607
RELEASE TO PROD.		FINISH	SCALE NONE
SUPERSEDES DWG.			B-45000-61607-1

ENGINEERING RESPONSIBILITY												SEPIA				
0	1	2	3	4	6	8	9	11	12	14	15					
16	17	19	21	22	23	25	29	30	32	33	38	43				
45	46	61	63			67										

B-45000-61608-1

SYM	REVISIONS	APPROVED	DATE
A	AS ISSUED	RS	1-28-78
B	ADDED ENLARGED DETAIL FOR CLARIFICATION	ZDA	5-2-78



- NOTES:
- 1 USE HEATSHRINK OVER ALL TERMINALS.
 - 2 MAKE CONNECTION TO TWO TERMINALS AS SHOWN IN DRAWING.
 - 3 WIRES TO BE INSERTED IN PINS 1 & 3.

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
5	1	HOUSING, 3 PIN	1251-4389		
4	2	SOCKET PIN	1251-4182		
3	2	WIRE, ORN, 24AWG, 320MM	8150-0300		
2	3	HEATSHRINK, SM, 5MM	0800-0100		
1	1	RESISTOR, VARIABLE	2100-1832		

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm ~~or ± 0.4 mm~~
 XX.X ± 0.2 mm ~~or ± 0.1 mm~~

STRIKE OUT ONE XX AND ONE XX.X
SEE CORP. STD. 608

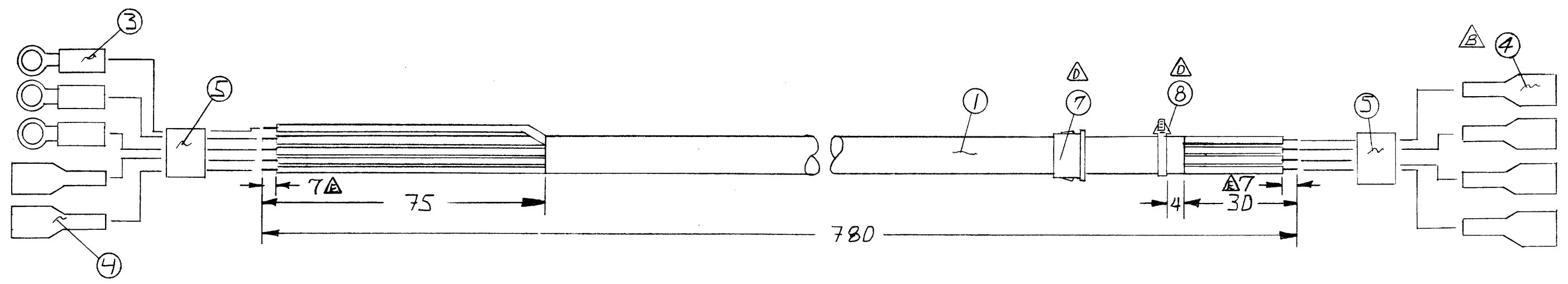
DO NOT SCALE THIS DRAWING

DRAWN BY	DATE	CABLE - INTENSITY CRT	HEWLETT PACKARD
ENGINEER			
RELEASE TO PROD.		45000-67905	45000-61608
SUPERSEDES DWG.		NONE	B-45000-61608-1
		FINISH	SCALE

ENGINEERING RESPONSIBILITY												SEPIA			
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47

B-45000-61614-1

SYM	REVISIONS	APPROVED	DATE
A	AS ISSUED	RA	1-28-78
B	0362-0531 WAS QTY 2. DELETED ITEM 2	37-4056 FOR	6-5-78
C	0890-0273 WAS 0890-0307	37-4066	6-16-78
D	ADDED ITEM 7, 8, AND NOTE 3.	37-4224	5-23-79
E	CHANGE ITEM 0362-0531 TO 0362-0467	47-2316	
"	CHANGE STRIP LENGTHS FROM 4mm TO 7mm	JW/RA	11-7-80



- NOTES:
- 1) COVER DRAIN w/ ITEM #6. FABRICATE DRAIN FROM SHIELD.
 - 2) PUT ITEMS #4 ON GRA & WHT/RED I GRA.
PUT ITEMS #3 ON WHT/BRN I GRA, WHT I GRA AND SHIELD.

△ 3) PLACE TIE WRAP SECURELY ON OUTER JACKET. SHRINK THE HEATSHRINK OVER THE TIE WRAP. PLACE ITEM 7 AS CLOSE TO TIE WRAP AS POSSIBLE.

METRIC

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
8	1	TIE WRAP	1400-0249		
7	1	BUSHING	0340-0871		
6	75mm	HEATSHRINK	0890-0100		
5	07FT	HEATSHRINK	0890-0273	△	
4	6	TERMINAL, SPADES CRIMP	0362-0467	△	
3	3	TERMINAL, RING, CRIMP	0362-0319	△	
1	780mm	CABLE, 4 COND, #18	8120-1624		

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

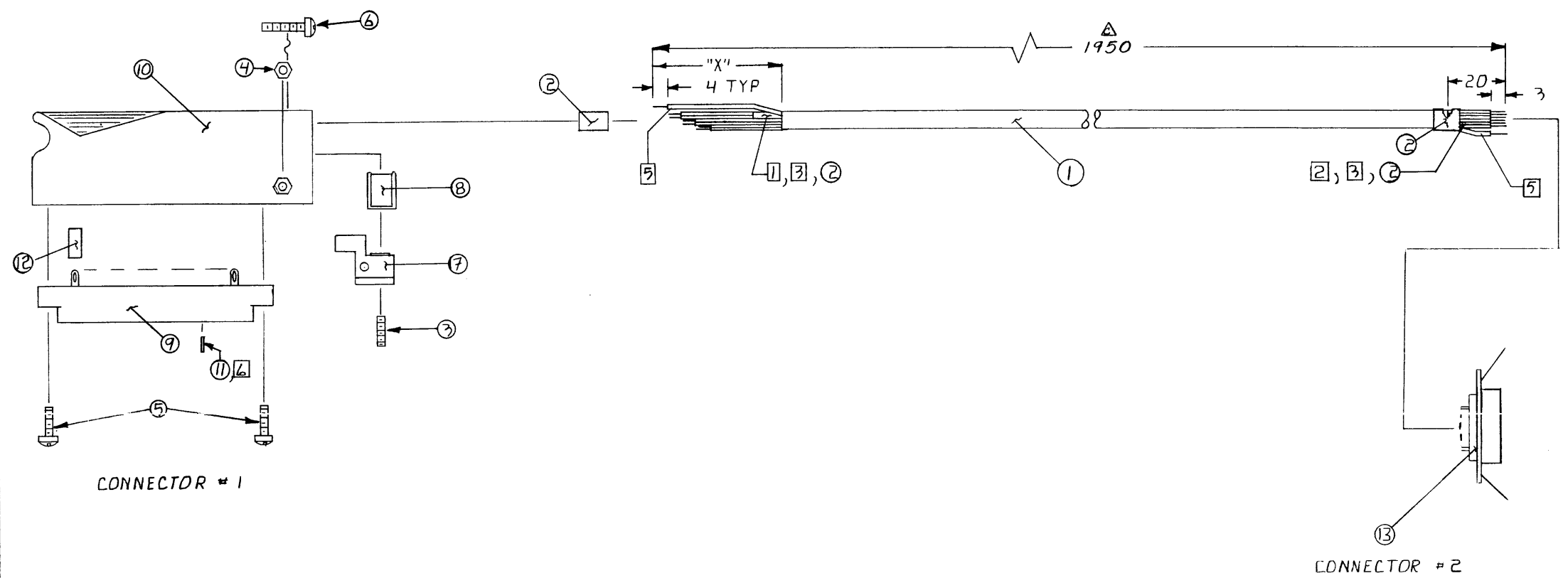
TOLERANCES: XX.X ± .01

DO NOT SCALE THIS DRAWING

DRAWN BY	DATE	CABLE, ON-OFF	HEWLETT PACKARD
ENGINEER			
RELEASE TO PROD.		45251-61211	45000-61614
SUPERSEDES DWG.		NONE	B-45000-61614-1

ENGINEERING RESPONSIBILITY															SEPIA																																			
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50

C-45000-61616-1		APPROVED	DATE
SYM	REVISIONS		
A	AS ISSUED	AL	1-28-78
B	NEXT ASSY WAS 45000-67906	37-4229	6-8-79
C	1950 WAS 2100		



- NOTES:
- 1 STRIP COAX SHIELD AWAY FROM COAX CORE FOR 35mm.
 - 2 STRIP COAX SHIELD AWAY FROM COAX CORE FOR 15mm.
 - 3 REINFORCE BOTH CORE AND SHIELD w/ ITEM 12 (0890-0100). REINFORCE SEPARATION POINT w/ ITEM 2 (0890-0765).
 4. USE ITEM 12 OVER TERMINALS ON BOTH CONNECTORS.
 5. COVER DRAIN WIRE w/ SMALL WHITE HEATSHRINK. MAKE DRAIN FROM SHIELD.
 6. PUT POLARIZING KEY BETWEEN PINS L & M.

TABLE # 3

RAW CABLE	WIRE COLOR	STRIP LNG "X"	CONN #1 PIN	CONN #2 PIN	SIGNAL
8120-2600	CAB. SHIELD	45	1	14	GRD
	COAX CORE	40	B	1	VIDEO
	COAX SHIELD	40	2	8	GRD
	BLU	35	D	3	WDR. DRV
	WHT & BLK	35	4	10	GRD
	RED	25	F	5	VER. DRV
	WHT & RED	25	6	12	GRD

METRIC

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES
 THIRD ANGLE PROJECTION
 TOLERANCES: XX ± 0.5 mm
 XX.X ± 0.2 mm
 STRIKE OUT ONE XX AND ONE XX.X SEE CORP. STD. 608
 DO NOT SCALE THIS DRAWING

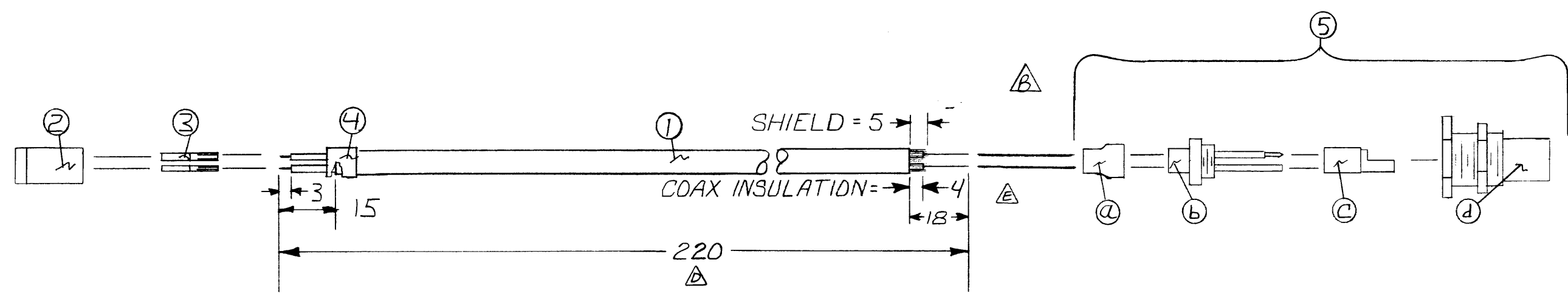
ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L. PART NO.	MAT'L. DWG. NO.	MAT'L. SPEC.
13	1	CONNECTOR, 14 PIN	1251-0143		
12	1	200mm HEATSHRINK	0890-0700		
11	1	POLARIZING KEY	1251-1115		
10	1	HOOD, STRAIN RELIEF	5040-6086		
9	1	CONNECTOR, 2x15	1251-0159		
8	1	CLAMP, CABLE	5040-6003		
7	1	MOUNTING BLOCK	5040-6072		
6	1	SCREW, #4-40	2200-0091		
5	2	SCREW, SELF-TAPPING	0624-0098		
4	1	NUT, #4-40	2260-0002		
3	1	SETSCREW	3030-0143		
2	1	50mm HEATSHRINK	0890-0765		
1	1	1950mm CABLE, 2 TW. PAIR & COAX	8120-2600		

CABLE, DISPLAY		HEWLETT PACKARD	
TITLE		PART NUMBER	
45000-67916		45000-61616	
NEXT ASSEMBLY		PART NUMBER	
NONE		C-45000-61616-1	
FINISH		SCALE	
		NONE	

ENGINEERING RESPONSIBILITY												SEPIA			
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47

B-45000-61617-1

SYM	REVISIONS	APPROVED	DATE
A	AS ISSUED	<i>[Signature]</i>	1-28-78
B	ITEM 4 WAS 15mm, ADDED NOTE 7	37-4136	11-27-78
C	NEXT ASSY WAS 45000-67906	37-4229	6-8-79
D	220 WAS 260	37-4268	8-21-79
E	ITEM 3 WAS 1251-3073; ITEM 4 WAS 0890-0708; 15mm WAS 30mm, ADDED WIRE GAUGE	A B	3-10-80



ASSEMBLY NOTES:

TO ASSEMBLE ITEM 5:

1. STRIP CABLE INSULATION BACK 18mm. CUT SHIELD TO 5mm LENGTH AND UNBRAID. STRIP COAX INSULATION TO 4mm.
2. SLIP CRIMP RING (a) ONTO CABLE - SMALL END FIRST.
3. PUSH WIRES INTO PIN ASSY (b) AND SOLDER THRU SMALL HOLES IN SIDE OF PINS.
4. PUSH INSULATOR (c) ONTO PINS, LEAVING MALE PIN EXPOSED.
5. SCREW RETAINER HOUSING (d) ONTO PIN ASSY.
6. PUSH BRAID OVER SHOULDER OF PIN ASSY. MOVE CRIMP RING OVER SHOULDER AND CRIMP USING CRIMP FIXTURE #11971-84.
7. USE 15mm OF HEATSHRINK ONE END OF CABLE.

METRIC

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm ~~or ± 0.4 mm~~
 XX.X ± 0.2 mm ~~or ± 0.1 mm~~
 STRIKE OUT ONE XX AND ONE XX.X
 SEE CORP. STD. 608

DO NOT SCALE THIS DRAWING

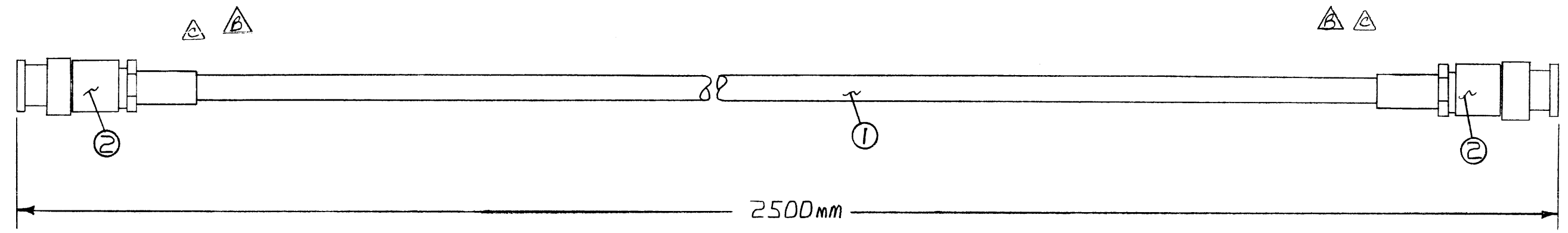
ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
5	1	BULK HEAD JACK, BNC	1250-1608		
4	15mm	HEATSHRINK	0890-0103		
3	2	TERMINAL CRIMP	1251-0670		
2	1	CONNECTOR, 2POS	1251-4145		
1	220mm	CABLE, RG108H/U	8120-2696		20 AWG

DRAWN BY	DATE	TITLE CABLE, 24V DC INTERNAL	HEWLETT PACKARD
ENGINEER		45000-67916	PART NUMBER
RELEASE TO PRD.		NEXT ASSEMBLY	B-45000-61617-1
SUPERSEDES DWG.		FINISH	SCALE NONE

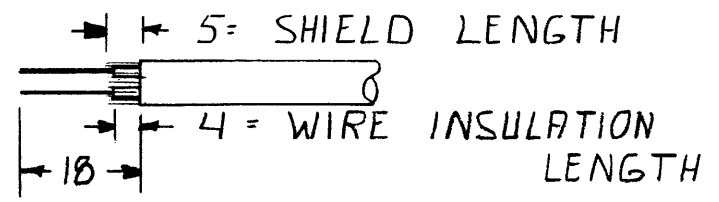
ENGINEERING RESPONSIBILITY													SEPIA																								
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15																						
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45								
46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80			

B-45000-61618-1

SYM	REVISIONS	APPROVED	DATE
A	AS ISSUED	RS	1-28-78
B	ADD HEATSHRINK-ITEM 3, ADD NOTE 2	37-4136	11-27-78
C	DELETE ITEM 3 & NOTE 2 PER PC40P-0142	AB	3-11-80



NOTE:
1. TO INSTALL CONNECTORS STRIP WIRE LENGTH AS SHOWN BELDW:



METRIC

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
XX.X ± 0.2 mm or ± 0.1 mm
STRIKE OUT ONE XX AND ONE XX.X
SEE CORP. STD. 608

DO NOT SCALE THIS DRAWING

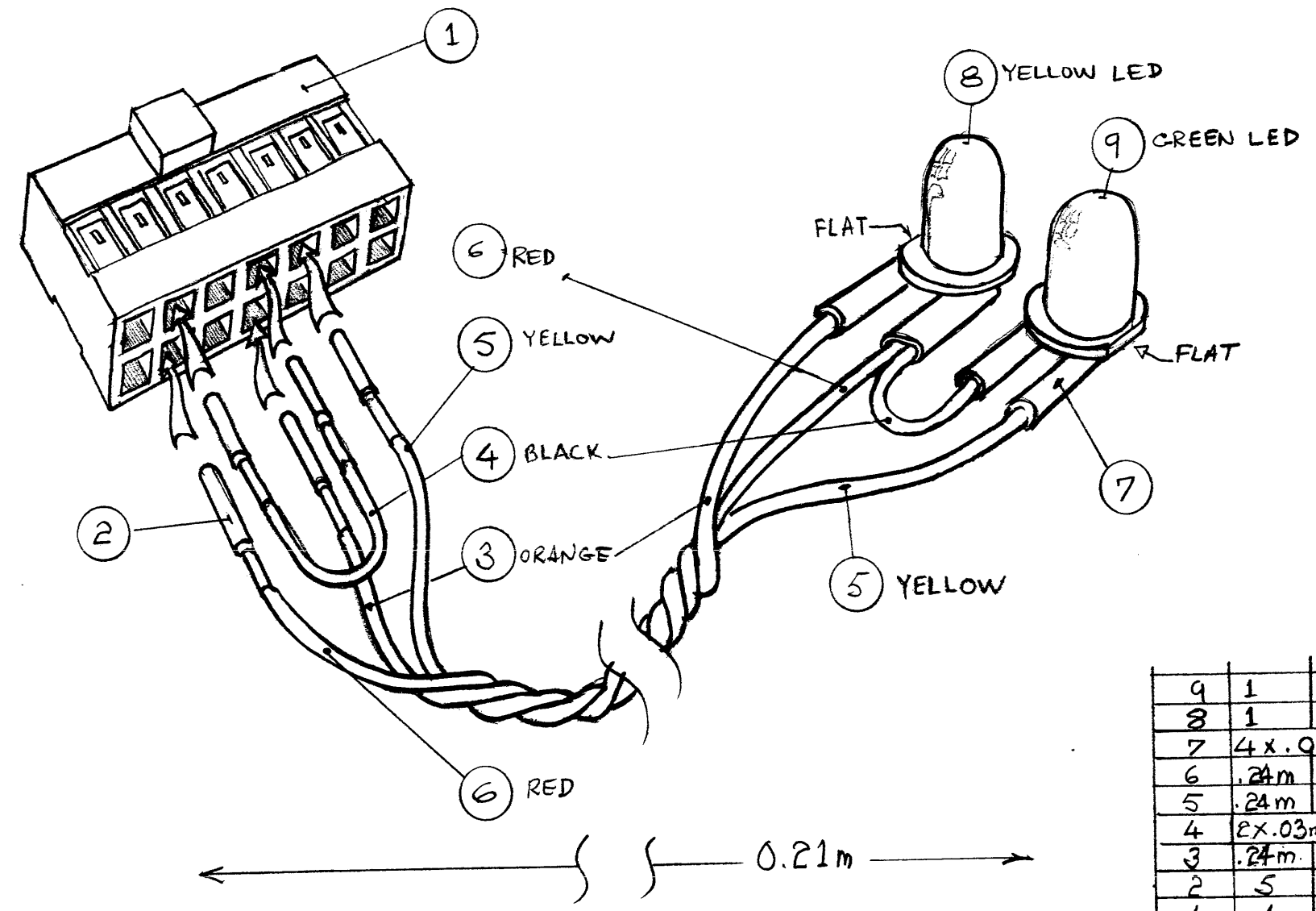
ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
2	2	CONNECTOR, TWIN BNC	1250-1609		
1	2500	mm CABLE, RG108AU	8120-2696		

DRAWN BY	DATE	TITLE	HEWLETT PACKARD
ENGINEER		CABLE, 24V DC EXTERNAL	
RELEASE TO PROD.		45251A	PART NUMBER
SUPERSEDES DWG.		NONE	B-45000-61618-1

ENGINEERING RESPONSIBILITY												SEPIA			
0	1	2	3	4	6	8	9	11	12	14	15				
16	17	19	21	22	23	25	29	30	32	33	38	43			
45	46	61	63												

B-45000-61625-1

SYM	REVISIONS	APPROVED	DATE
A	AS ISSUED	RS	5-14-79
B	NEXT ASSY WAS 45000-67904	37-4229	6-18-79



9	1	LED - GREEN	1990-0523
8	1	LED - YELLOW	1990-0524
7	4 x .015m	SHRINK TUBING	0290-0100
6	.24m	WIRE 24 AWG - RED	8150-0301
5	.24m	WIRE 24 AWG - YELLOW	8150-0299
4	2 x .03m	WIRE 24 AWG - BLACK	8150-0303
3	.24m	WIRE 24 AWG - ORANGE	8150-0300
2	5	CONTACT - FEMALE	1251-4182
1	1	14 POSITION HOUSING	1251-6019

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

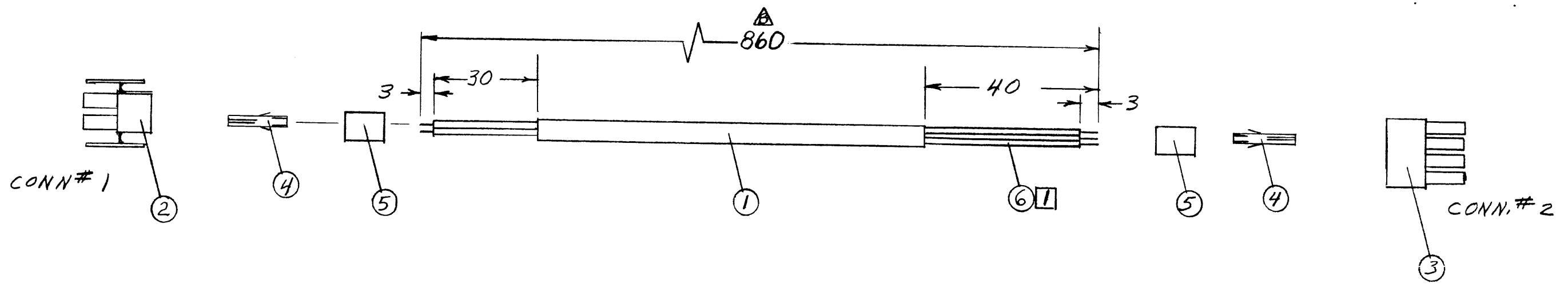
~~TOLEANCES: XX ± 0.5 mm or ± 0.4 mm
XX.X ± 0.2 mm or ± 0.1 mm
STRIKE OUT ONE XX AND ONE XX.X
SEE CORP. STD. 608~~

DO NOT SCALE THIS DRAWING

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
DRAWN BY		DATE		CABLE - L.E.D	
ENGINEER		TITLE		HEWLETT PACKARD	
RELEASE TO PROD.		NEXT ASSEMBLY 45250A		PART NUMBER	
SUPERSEDES DWG.		FINISH / SCALE /		B-45000-61625-1	

ENGINEERING RESPONSIBILITY													SEPIA																																																																																						
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99

B-45000-61626-1		APPROVED	DATE
SYM	REVISIONS		
A	AS ISSUED	RS	6/28/79
B	860 WAS 1000.0	37-4271	8/24/79



① TWIST SHIELD TOGETHER AND APPLY HEATSHRINK #0890-0100

CONN. #1	COLOR	PIN #
	BRN	1
	BLU	2
CONN. #2	BRN	1
		2
	BLU	3
	SHIELD	4

GRN/YEL IS NOT USED

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
6	1	HEATSHRINK (27mm)	0890-0100		
5	2	HEATSHRINK (10mm)	0890-0103		
4	5	TERMINAL. SOCKET, CRIMP	1251-3911		
3	1	PLUG UNIV. 4 CIR	1251-3836		
2	1	PLUG UNIV. 2 CIR	1251-4782		
1	1	CABLE 3 COND. (860mm)	8120-2664		22 AWG

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
 XX.X ± 0.2 mm or ± 0.1 mm
 STRIKE OUT ONE XX AND ONE XX.X
 SEE CORP. STD. 608

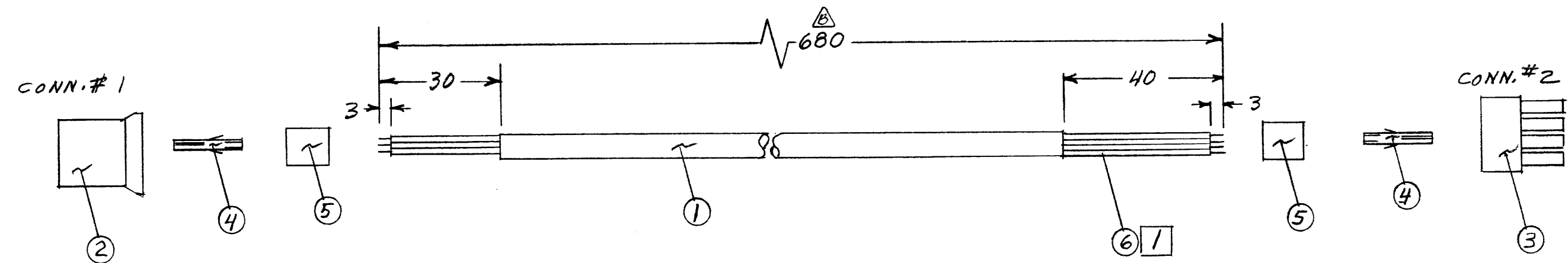
DO NOT SCALE THIS DRAWING

CABLE AC POWER		HEWLETT PACKARD
TITLE		
45000-67916		PART NUMBER
NEXT ASSEMBLY		B-45000-61626-1
FINISH	SCALE	
	NONE	

ENGINEERING RESPONSIBILITY												SEPIA			
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60

REVISIONS		APPROVED	DATE
SYM	DESCRIPTION		
A	AS ISSUED	<i>[Signature]</i>	6/29/79
B	680 WAS 500	37-4272	8-24-79

B-45000-61630-1



1 USE BRAIDED SHIELD WIRE FOR DRAIN COVER WITH HEATSHRINK #0890-0100

CONN#	COLOR	PIN
CONN#1	BRN	1
	GRN/YEL	2
	BLU	3
CONN#2	BRN	1
	GRN/YEL	2
	BLU	3
	SHIELD	4

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
6	1	HEATSHRINK, WHT 37mm	0890-0100		
5	2	HEATSHRINK, 15mm	0890-0103		
4	7	TERMINAL, SOCKET, CRIMP	1251-3911		
3	1	PLUG, UNIV, 4 CIR	1251-3836		
2	1	PLUG, UNIV, 3 CIR	1251-3913		
1	1	CABLE, 3 COND. 680 mm	8120-2664		22 AWG

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
 XX.X ± 0.2 mm or ± 0.1 mm
 STRIKE OUT ONE XX AND ONE XX.X
 SEE CORP. STD. 608

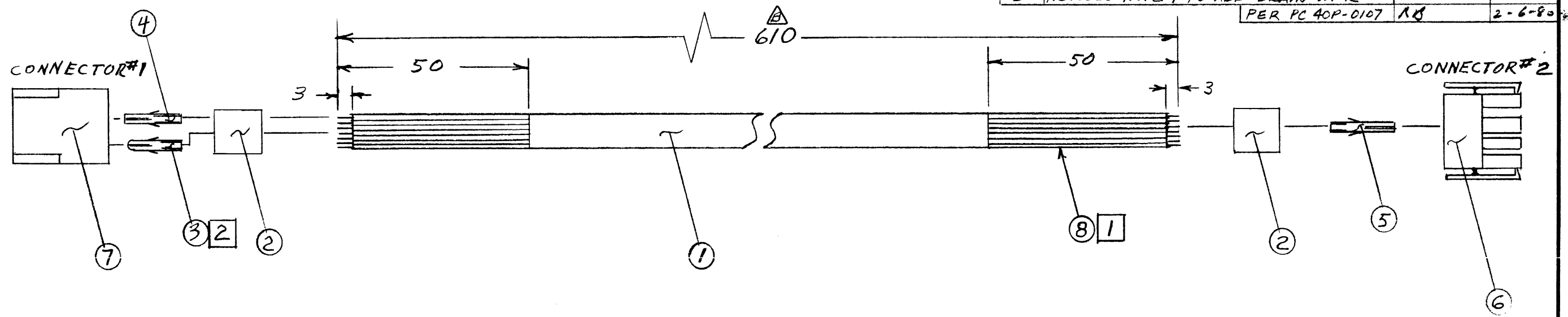
DO NOT SCALE THIS DRAWING

CABLE, FLOPPY A C		HEWLETT PACKARD
TITLE		
45000-67960		PART NUMBER B-45000-61630-1
NEXT ASSEMBLY		
FINISH	NONE	SCALE
SCALE		

ENGINEERING RESPONSIBILITY												SEPIA			
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47

B-45000-61631-1

SYM	REVISIONS	APPROVED	DATE
A	AS ISSUED	AS	6/29/79
B	610 WAS 450	37-4273	8-24-79
C	ITEM 4 WAS 1251-2599, ITEM 3 WAS 1251-2600, ITEM 2 WAS 0890-0765	40P-0028	11-14-79
D	REVISED NOTE 1 TO ADD DRAIN WIRE PER PC 40P-0107	AS	2-6-80



- △ 1 COVER DRAIN WIRE WITH HEATSHRINK # 0890-0100
- 2 USE PIN TERM. # 1251-2599 ON ORN WIRE CONN#1 ONLY

CONN#1	COLOR	PIN	VOLT
	BLU	2	-5
	RED	3	+24
	ORN	4	+5
	BLK	5	GRD
Y	BLK/WHT	6	GRD
CONN#2			
	BLK	1	GRD
	BLK/WHT	2	GRD
	ORN	3	+5
	RED	4	+24
	BLU	5	-5
Y	WHT	6	DRAIN

ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
8	1	HEATSHRINK 47mm (WHITE)	0890-0100		
7	1	HOUSING, CONN. 6 CIR	1251-0692		
6	1	HOUSING, CONN. 6 CIR	1251-3817		
5	6	TERMINAL, SOCKET, CRIMP	1251-3911		
4	4	TERMINAL, SOCKET, CRIMP	1251-2600		
3	1	TERMINAL, PIN, CRIMP	1251-2599		
2	2	HEATSHRINK, MED, 20MM	0890-0708		
1	1	CABLE, 5 COND, 610 MM	8120-2622		18 AWG

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
 XX.X ± 0.2 mm or ± 0.1 mm
 STRIKE OUT ONE XX AND ONE XX.X
 SEE CORP. STD. 608

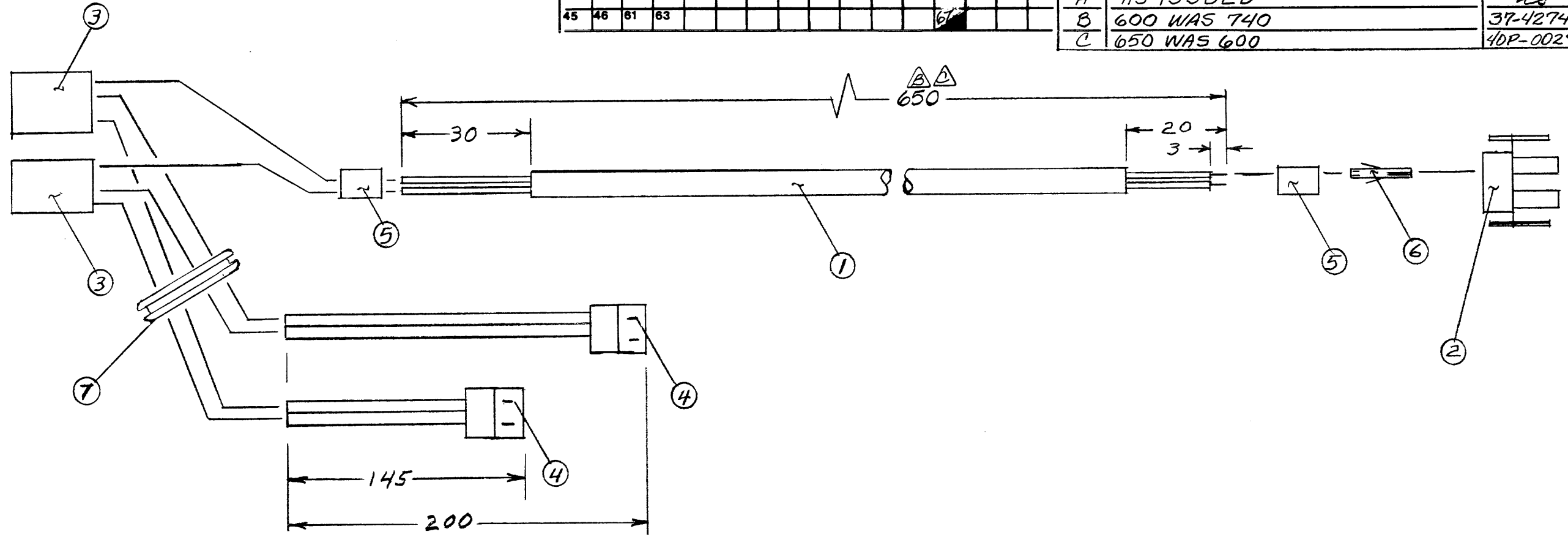
DO NOT SCALE THIS DRAWING

CABLE, FLOPPY DC		HEWLETT PACKARD
TITLE	45000-67960	PART NUMBER
NEXT ASSEMBLY	SCALE NONE	B-45000-61631-1
FINISH		

ENGINEERING RESPONSIBILITY												SEPIA															
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15												
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71

B-45000-61632-1

SYM	REVISIONS	APPROVED	DATE
		A	AS ISSUED
B	600 WAS 740	37-4274	8-24-79
C	650 WAS 600	40P-0029	11-14-79



1. TERMINATE ONE WIRE FROM ITEM 1 & 4 IN EACH OF ITEM 3 AS SHOWN DO NOT STRIP INSULATION FROM THESE WIRES.

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
7	1	GROMMET	0400-0010		
6	2	TERMINAL SOCKET CRIMP	1251-3911		
5	2	HEAT SHRINK 10mm LG.	0890-0708		
4	2	CONNECTOR, FAN	8120-1478		
3	2	CONNECTOR, SCOTCHLOCK	0362-0599		
2	1	PLUG, UNIV. 2 CIR	1251-4782		
1	650mm	CABLE, 2 COND. 20AWG	8120-1480		

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
 XX.X ± 0.2 mm or ± 0.1 mm
 STRIKE OUT ONE XX AND ONE XX.X
 SEE CORP. STD. 608

DO NOT SCALE THIS DRAWING

CABLE, AC POWER FANS

TITLE

45000-67916

NEXT ASSEMBLY

FINISH

SCALE NONE

HEWLETT PACKARD

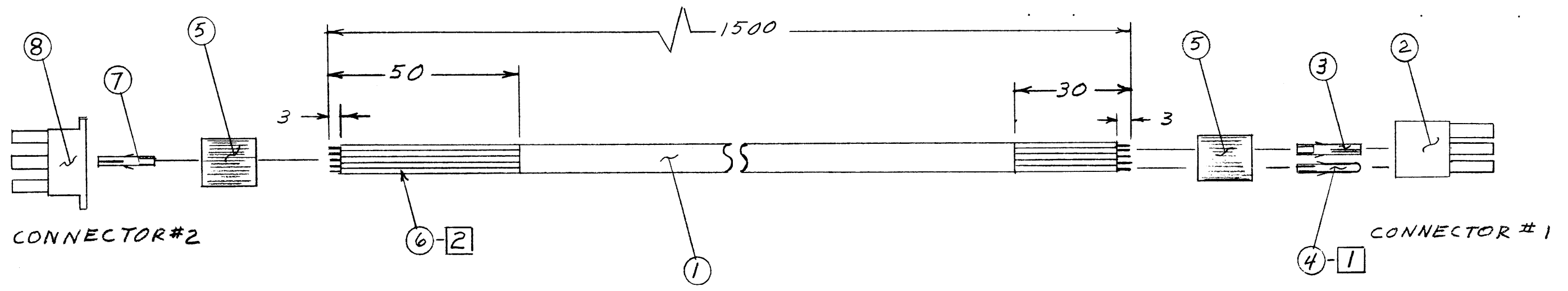
PART NUMBER

B-45000-61632-1

ENGINEERING RESPONSIBILITY <input checked="" type="checkbox"/>												SEPIA <input checked="" type="checkbox"/>				
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16	17	19	21	22	23	25	29	30	32	33	38	43				
45	46	61	63							67						

SYM		REVISIONS		APPROVED	DATE
A		AS ISSUED		<i>[Signature]</i>	6/28/79

B-45000-61633-1



NOTES:

- [1] PIN TERMINAL #1251-2599 IS CRIMPED TO RED WIRE ONLY
ALL OTHER WIRES ON CONN. 1 USE SOCKET TERM. #1251-2600
ALL WIRES IN CONN. 2 USE SOCKET TERM. #1251-3911
- [2] USE WHITE HEATSHRINK #0890-0100 OVER DRAIN WIRE

CONN #1	COLOR	PIN #	VOLTS
↓	ORN	1	+5
	BLK	2	GRD
	RED	3	+24
	ORN	4	+5
	BLK	5	GRD
	BLK/WHT	6	GRD
	ORN	7	+5
	BLK	8	GRD
	BLU	9	-5
CONN #2			
↓	BLU	1	-5
	BLK	2	GRD
	ORN	3	+5
	BLK	5	GRD
	ORN	6	+5
	RED	7	+24
	BLK	8	GRD
	ORN	9	+5
	BLK/WHT	11	GRD
	---	12	DRAIN

ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
8	1	PLUG, UNIV. 12 CIR	1251-4202		
7	10	TERMINAL SOCKET, CRIMP	1251-3911		
6	1	HEATSHRINK, 4.7mm LONG	0890-0100		
5	2	HEATSHRINK, 15mm LONG	0890-0708		
4	1	TERMINAL PIN, CRIMP	1251-2599		
3	8	TERMINAL SOCKET, CRIMP	1251-2600		
2	1	HOUSING, CONN, 9 PIN	1251-2495		
1	1500mm	CABLE, 9 COND, 18 AWG	8120-2567		

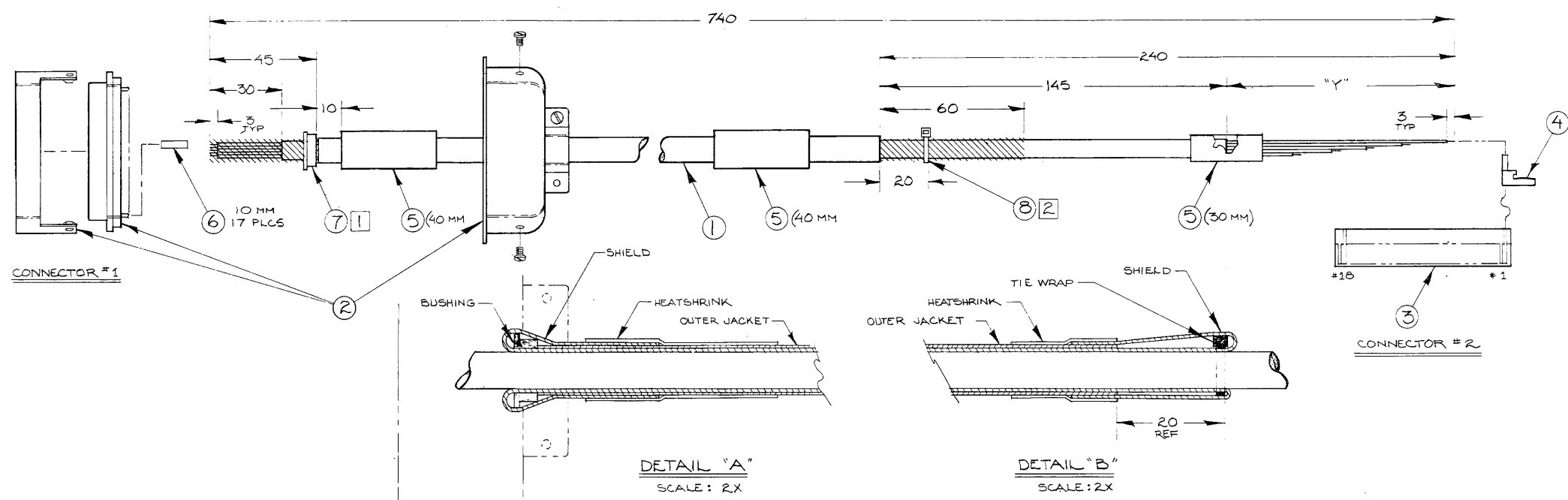
UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
XX.X ± 0.2 mm or ± 0.1 mm
STRIKE OUT ONE XX AND ONE XX.X
SEE CORP. STD. 608

DO NOT SCALE THIS DRAWING

CABLE, DC POWER FLOPPYS		HEWLETT PACKARD	
TITLE		PART NUMBER	
45000-67916		B-45000-61633-1	
NEXT ASSEMBLY		SCALE	
FINISH		NONE	



CONNECTOR #1			CONNECTOR #2			
PIN #	COLOR	SIGNAL	PIN #	COLOR	SIGNAL	
1	GRA	-12V	1	BRN	95	A1
3	WHT/RED	+5V	2	YEL	95	A4 PH1
5	WHT	SRIN'	3	WHT/BLK	90	GRD
7	WHT/GRN	SRO	4	WHT/YEL	90	A2 PH1
9	WHT/ORN	PHI 3	5	ORN	85	A3
11	WHT/BLK	GRD	6	RED	80	A2
13	YEL	A4 PH1	7	WHT/BRN	80	PHI 1
15	WHT/YEL	A4 PH1	8	WHT/ORN	75	PHI 3
17-18	SHIELD	GRD	9	WHT	70	SRIN'
26-27	BLK	GRD	10	GRN	65	A5
29	BRN	A1	11	BLU	60	A6
31	RED	A2	12	WHT/GRN	55	SRO
33	ORN	A3	13	VIO	50	A7
35	GRN	A5	14	WHT/RED	45	+5V
37	BLU	A6	16	BLK	35	GRD
39	VIO	A7	18	GRA	25	-12V
41	WHT/BRN	PHI 1				

NOTES:

- 1 REMOVE 45 MM OF OUTER JACKET. PLACE BUSHING OVER THE SHIELD AGAINST THE END OF THE OUTER JACKET. FOLD SHIELD BACK OVER BUSHING (SEE DETAIL "A") AND OUTER JACKET. COVER END OF SHIELD WITH HEATSHRINK. MAKE SURE ENOUGH BARE SHIELD IS EXPOSED FOR ITEM 2 TO CLAMP ONTO.
- 2 REMOVE 240 MM OF OUTER JACKET, CUT SHIELD TO BE 60MM LONGER THAN OUTER JACKET. PLACE TIEWRAP ON TOP OF SHIELD 20MM FROM END OF OUTER JACKET. FOLD SHIELD BACK OVER TIE WRAP (SEE DETAIL B) AND OUTER JACKET. COVER END OF SHIELD WITH HEATSHRINK TO END OF OUTER JACKET.

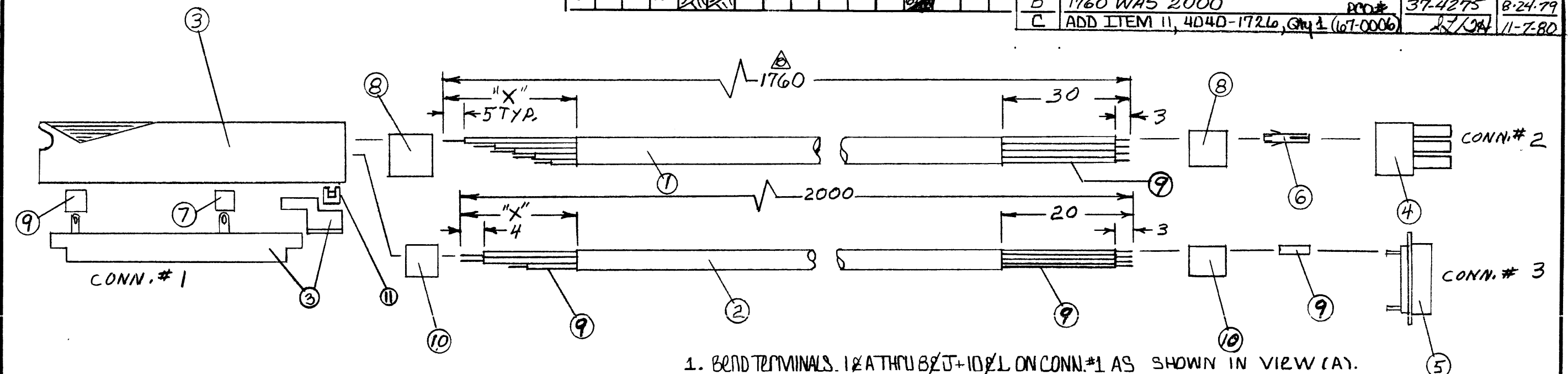
ITEM	QTY	MATERIAL DESCRIPTION	MATL PART NO	MATL LONG NO	MATL SPEC
8	1	TIE WRAP	400-0249		
7	1	BUSHING .375 ID	0340-087		
6	170MM	HEATSHRINK	0890-0100		
5	10MM	HEATSHRINK	0890-0273		
4	16	TERMINAL, CONN EDGE	1251-4995		
3	1	HOUSING, CONN EDGE	1251-4996		
2	1	CONNECTOR, 50 PIN	1251-0086		
1	740MM	CABLE	8120-2813		

METRIC

DO NOT SCALE THIS DRAWING	CABLE - KYBD MATRIX		
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES .X ± .01 MM. SEE CORP STD. 608	45000-60105	45000-61635	
	FINISH	SCALE FULL	D-45000-61635-1

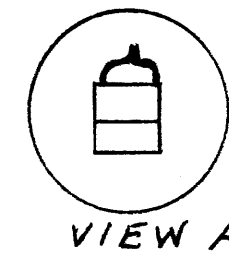
ENGINEERING RESPONSIBILITY												SEPIA			
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16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47

B-45000 - 61639-1		APPROVED	DATE
SYM	REVISIONS		
A	AS ISSUED	<i>[Signature]</i>	6/28/79
B	1760 WAS 2000	37-4275	8-24-79
C	ADD ITEM 11, 4040-1726, Qty 1 (67-0006)	<i>[Signature]</i>	11-7-80



1. BEND TERMINALS. 1/2" AT THRU 8/2" + 10/2" L ON CONN.#1 AS SHOWN IN VIEW (A).
2. USE WHITE HEATSHRINK #0890-0100 ON L THRU S AND 15 CONN.#1
USE WHITE HEATSHRINK #0890-0765 ON 1/2" AT THRU 8/2" CONN.#1
3. CLIP WHT/YEL WIRE ON CABLE 8120-2663 AS SHORT AS POSSIBLE.
4. COVER DRAIN WIRE WITH WHITE HEATSHRINK #0890-0100. (MAKE DRAIN FROM SHIELD IF NECC.)
5. USE ITEM 11 RATHER THAN THE CABLE CLAMPS SUPPLIED WITH THE 5060-8339 KIT. RETURN THE EXTRA CABLE CLAMPS TO STOCK.

8120-X DIM	CONN#1	SIGNAL	8120	CONN#2		
2619	PIN#		2619	PIN#		
COLOR			COLOR			
GRN	20	1-A	24V-AC	YEL	1	18V-AC
GRN	20	2-B	24V-AC	GRN	2	24V-AC
WHT/GRN	25	3-C	24V-AC	GRN	3	24V-AC
WHT/GRN	30	4-D	24V-AC	VIO	4	46V-AC
YEL	35	5-E	18V-AC	SHIELD	5	GRD
YEL	40	6-F	18V-AC	VIO	6	46V-AC
VIO	55	8-J	46V-AC	WHT/GRN	7	24V-AC
VIO	60	10-L	46V-AC	WHT/GRN	8	24V-AC
			YEL	9		18V-AC
			CONN#3			
8120-2663			8120-2663	PIN#		
WHT/ORN	20	N	V-REG	WHT/BLU	1	-12V
BLU	20	R	V.SENS	ORN	3	+5V
WHT/BLU	20	T	-12V	YEL	5	+12V
YEL	25	U	+12V	BLU	8	V.SENS
ORN	25	V	+5V	WHT/ORN	12	V.REG
BRN	30	W	GRD	BRN	14	GRD
WHT/GRN	30	19	GRD	WHT/BRN	16	GRD
SHIELD	30	19	GRD	SHIELD	18	GRD



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
 XX.X ± 0.2 mm or ± 0.1 mm
 STRIKE OUT ONE XX AND ONE XX.X
 SEE CORP. STD. 608

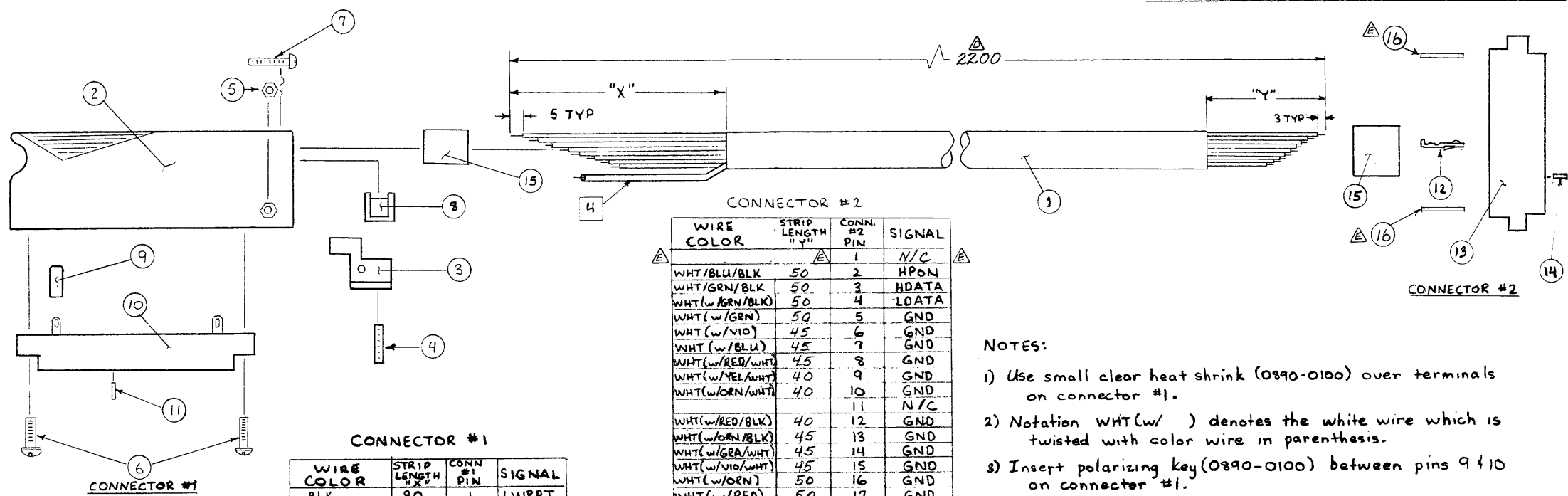
DO NOT SCALE THIS DRAWING

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
11	1	SMALL CABLE CLAMP	4040-1726		
10	40mm	HEATSHRINK	0890-0103		
9	170mm	HEATSHRINK WHITE	0890-0100		
8	40mm	HEATSHRINK	0890-0708		
7	170mm	HEATSHRINK	0890-0765		
6	9	TERMINAL, SOCKET CRIMP	1251-3911		
5	1	CONN. 24 PIN	1251-0292		
4	1	PLUG UNIV. 9 CIR	1251-4752		
3	1	KIT CONNECTOR	5060-8339		
2	2000mm	CABLE 8-#26	8120-2663		
1	1760mm	CABLE 8-#18	8120-2619		

CABLE, POWER SUPPLY		HEWLETT PACKARD	
TITLE		PART NUMBER	
45000-67916		B-45000-61639-1	
NEXT ASSEMBLY		SCALE	
NONE		NONE	
FINISH		SHEET 1 OF 1	

ENGINEERING RESPONSIBILITY															SEPIA																															
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46

C-45000-61640-1		APPROVED	DATE
SYM	REVISIONS		
A	AS ISSUED	37-4211	5-14-79
B	NEXT ASSY WAS 45000-67906	37-4229	6-8-79
C	TEST-GOZO WAS T-26772 LEFT IN ERROR	37-4276	8-8-79
D	2200 WAS 1750	37-4276	8-24-79
E	ADD ITEM 16, INCREASE STRIP LENGTH	RK	5-1-81
- ON CONNECTOR END #2 PER PCO 40P-0206			



CONNECTOR #1

WIRE COLOR	STRIP LENGTH "X"	CONN #1 PIN	SIGNAL
BLK	80	1	LWRPT
BRN	80	2	HREDY
RED	75	3	LSPIN
ORN	75	4	LINDX
YEL	70	5	LDRLK
GRN	65	6	STPHA
BLU	60	7	LWRITON
VIO	55	8	STPHB
GRA	50	9	HHED1
WHT/YEL	50	10	LIDCT
WHT/RED/BLK	45	11	HDSL1
WHT/ORN/BLK	45	12	HDSL0
WHT(W/RED/BLK)	40	13	GND
WHT(W/ORN/BLK)	35	13	GND
DRAIN	30	13	GND
		14	N/C
WHT(W/GRN/BLK)	25	15	LDATA
WHT/BLU/BLK	80	A	HPON
WHT/VIO	80	B	LTRK0
WHT(W/BLK)	75	C	GND
WHT(W/BLU/BLK)	75	C	GND
WHT(W/VIO/WHT)	75	C	GND
WHT/GRA	75	D	HRSPIN
WHT(W/BRN)	70	E	GND
WHT(W/RED)	70	E	GND
WHT(W/GRN/WHT)	70	E	GND
WHT/RED	65	F	LSTEN
WHT(W/YEL)	60	H	GND
WHT(W/ORN)	60	H	GND
WHT(W/RED/WHT)	60	H	GND
WHT/ORN	55	J	LDSL1
WHT(W/GRN)	50	K	GND
WHT(W/BLU)	50	K	GND
WHT(W/ORN/WHT)	50	K	GND
		L	N/C
WHT(W/VIO)	45	M	GND
WHT(W/GRA)	45	M	GND
WHT/GRN	45	N	HPOR
WHT(W/YEL/WHT)	35	P	GND
WHT(W/GRN/WHT)	35	P	GND
		R	N/C
WHT/GRN/BLK	25	S	HDATA

CONNECTOR #2

WIRE COLOR	STRIP LENGTH "Y"	CONN #2 PIN	SIGNAL
WHT/BLU/BLK	50	1	N/C
WHT/GRN/BLK	50	2	HPON
WHT(W/GRN/BLK)	50	3	HDATA
WHT(W/GRN)	50	4	LOATA
WHT(W/VIO)	45	5	GND
WHT(W/BLU)	45	6	GND
WHT(W/RED/WHT)	45	7	GND
WHT(W/YEL/WHT)	40	8	GND
WHT(W/ORN/WHT)	40	9	GND
		10	GND
		11	N/C
WHT(W/RED/BLK)	40	12	GND
WHT(W/ORN/BLK)	45	13	GND
WHT(W/GRA/WHT)	45	14	GND
WHT(W/VIO/WHT)	45	15	GND
WHT(W/ORN)	50	16	GND
WHT(W/RED)	50	17	GND
		18	N/C
		19	N/C
WHT(W/BRN)	55	20	GND
WHT(W/BLK)	55	21	GND
		22	N/C
		23	N/C
		24	N/C
		25	N/C
WHT/GRN	50	B	HPOR
GRA	50	C	HHED1
YEL	50	D	LDRLK
GRN	50	E	STPHA
VIO	45	F	STPHB
BLU	45	H	LWRITON
WHT/RED	45	J	LSTEN
WHT/YEL	40	K	LIDCT
WHT/ORN	40	L	LDSL1
		M	N/C
WHT/RED/BLK	40	N	HDSL1
WHT/ORN/BLK	45	P	HDSL0
WHT/GRA	45	R	HRSPIN
WHT/VIO	45	S	LTRK0
ORN	50	T	LINDX
RED	50	U	LSPIN
		V	N/C
		W	N/C
BRN	55	X	HREDY
BLK	55	Y	LWRPT
		Z	N/C
		AA	N/C
		BB	N/C
		CC	N/C

- NOTES:**
- 1) Use small clear heat shrink (0890-0100) over terminals on connector #1.
 - 2) Notation WHT(w/) denotes the white wire which is twisted with color wire in parenthesis.
 - 3) Insert polarizing key (0890-0100) between pins 9 & 10 on connector #1.
 - 4) Insert polarizing key (1251-4024) between pins 18 & 19 on connector #2.
 - 5) Cover drain wire on connector #1 with heat shrink (0890-0100). Clip drain wire on connector #2 end.
 - 6) Clip extra wires in connector #1 (WHT/BRN/BLK; WHT/BLK; WHT/YEL/BLK; WHT/BLU; WHT/BRN; and white wires twisted with them).
 - 7) Clip extra wires in connector #2 (same as for #1 plus WHT(W/GRA), WHT(W/YEL), WHT(W/BLU/BLK), AND WHT(W/GRN/WHT).

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-QWG. NO.	MAT'L-SPEC.
16	2	LATCHING KEY	1251-6780		
15	2	HEATSHRINK, .10 FT LONG	0890-0273		
14	1	POLARIZING KEY	1251-4024		
13	1	CONNECTOR HOUSING	1251-6020		
12	36	CONTACT-CRIMP	1251-9882		
11	1	POLARIZING KEY	1251-1115		
10	1	CONNECTOR, 2x15 PC EDGE	1251-0159		
9	27	HEATSHRINK - 10mm LG.	0890-0100		
8	1	CLAMP, SMALL	5040-6004		
7	1	SCREW, #4-40, 14.3mm	2200-0091		
6	2	SCREW, SELF TAPPING	0624-0098		
5	1	NUT #4-40	2260-0002		
4	1	SET SCREW	3030-0143		
3	1	MOUNTING BLOCK	5040-6072		
2	1	HOOD-CONNECTOR	5040-6086		
1	1	CABLE-24TW, Pr. 26 AWG	9120-2665		

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
 XX.X ± 0.2 mm or ± 0.1 mm
 STRIKE OUT ONE XX AND ONE XX.X
 SEE CORP. STD. 608

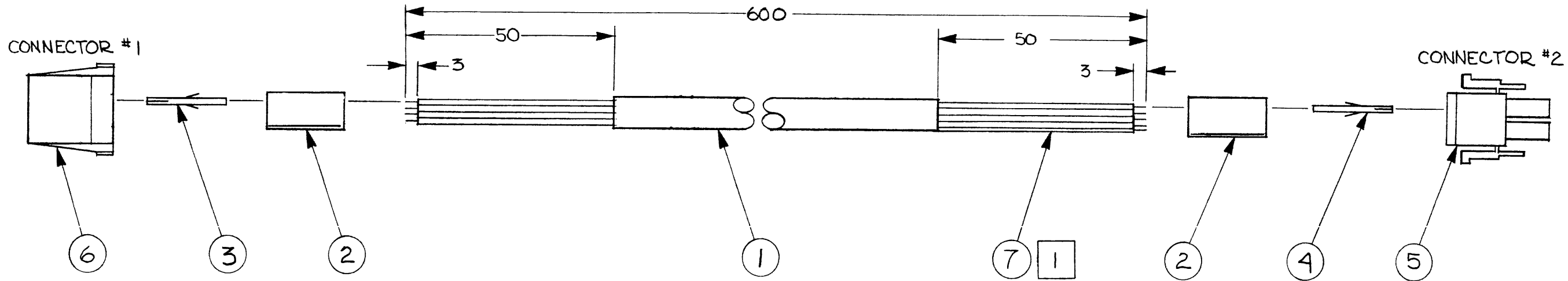
DO NOT SCALE THIS DRAWING

CABLE, FLOPPY CONTROLLER		HEWLETT PACKARD	
TITLE	45000-67916	PART NUMBER	45000-61640
NEXT ASSEMBLY	NONE	PART NUMBER	C-45000-61640-1
FINISH	SCALE	SHEET 1 OF 1	

ENGINEERING RESPONSIBILITY												SEPIA					
0	1	2	3	4	6	8	9	11	12	14	15						
16	17	19		21	22	23	25	29	30	32	33	38	43				
45	46	61	63	64													

SYM		REVISIONS	APPROVED	DATE
A		AS ISSUED	LB/MCM	10-4-80

B-45000-61641-1



NOTE :

1 COVER DRAIN WIRE WITH HEATSHRINK #0890-0100

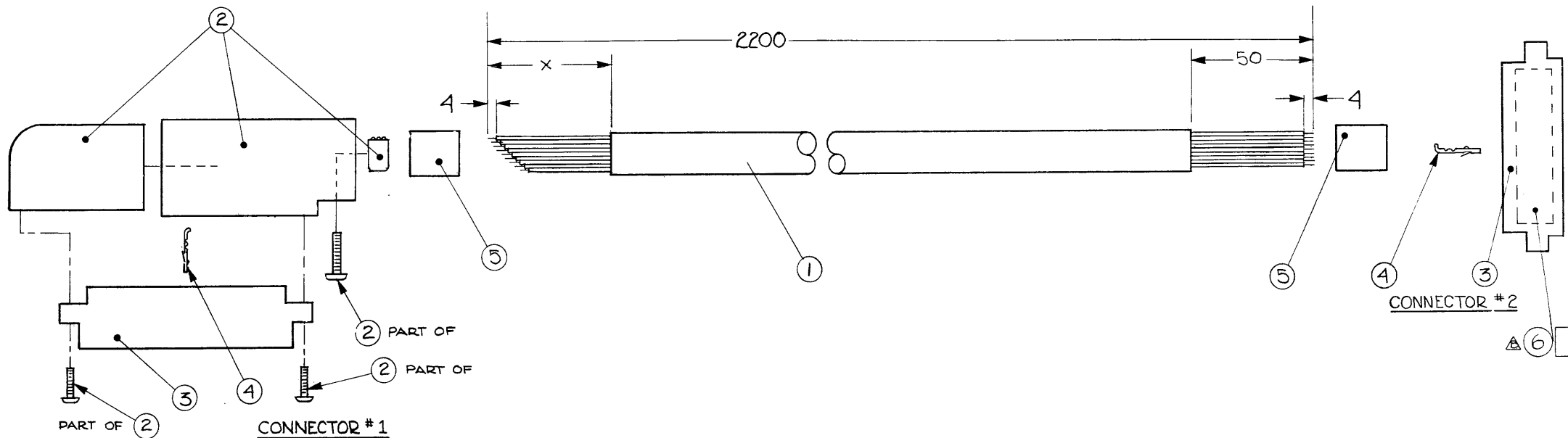
CONN #1	COLOR	PIN	VOLT
	RED/WHT	1	+24
	BLUE	5	+5
	BLK/WHT	2	GRD
	GRN	6	
CONN #2			
	BLK/WHT	1	GRD
	GRN	2	GRD
	BLUE	3	+5
	RED/WHT	4	+24
	WHT	6	DRAIN

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
7	1	HEATSHRINK 50 MM (WHITE)	0890-0100		
6	1	HOUSING, CONN, 6 CIR	1251-4407		
5	1	HOUSING, CONN, 6 CIR	1251-3817		
4	5	CONNECTOR CONTACT, CRIMP	1251-3911		
3	4	CONNECTOR CONTACT, CRIMP	1251-4999		
2	2	HEATSHRINK, 20 MM (WHITE)	0890-0708		
1	1	CABLE, SHLD -4 COND 600 MM	8120-2381		18 AWG

DO NOT SCALE THIS DRAWING
 UNLESS OTHERWISE SPECIFIED,
 DIMENSIONS ARE IN INCHES.
 TOLERANCES .XX ± .02 .XXX ± .005
 SEE CORP. STD. 608

CABLE, 9895 DC.		HEWLETT PACKARD	
TITLE		PART NUMBER	
45250 A		B-45000-61641-1	
NEXT ASSEMBLY		SCALE	
FINISH		FULL	

ENGINEERING RESPONSIBILITY															SEPIA															C-45000 - 61642 - 1																			
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	SYM	REVISIONS	APPROVED	DATE
																														AS ISSUED		LB/MCM		10-4-80															
																														A		B																	



WIRE COLOR	PIN #	SIGNAL	STRIP LENGTH-X
BLK	1	GND	105 mm
WHT/BLK	A	WR CURRENT	105 mm
BRN	3	GND	103 mm
WHT/BRN	B	NC	103 mm
RED	5	GND	101 mm
WHT/RED	C	NC	101 mm
ORG	7	GND	99 mm
WHT/ORG	D	NC	99 mm
YEL	9	GND	97 mm
WHT/YEL	E	TWO SIDED	97 mm
GRN	11	GND	95 mm
WHT/GRN	F	DISK CHANGE	95 mm
BLU	13	GND	93 mm
WHT/BLU	H	HEAD SELECT	93 mm
VIO	15	GND	91 mm
WHT/VIO	J	IN USE	91 mm
GRAY	17	GND	89 mm
WHT/GRAY	K	HEAD LOAD	89 mm
WHT	19	GND	87 mm
WHT(BLK/BRN)	L	INDEX	87 mm
WHT(BRN/RED)	21	GND	85 mm
WHT(BLK/RED)	M	READY	85 mm
WHT(BRN/ORG)	23	GND	83 mm
WHT(BLK/ORG)	N	SECTOR	83 mm
WHT(BRN/YEL)	25	GND	81 mm
WHT(BLK/YEL)	P	DRIVE SELECT 1	81 mm
WHT(BRN/GRN)	27	GND	79 mm
WHT(BLK/GRN)	R	DRIVE SELECT 2	79 mm
WHT(BRN/BLU)	29	GND	77 mm
WHT(BLK/BLU)	S	DRIVE SELECT 3	77 mm
WHT(BRN/VIO)	31	GND	75 mm
WHT(BLK/VIO)	T	DRIVE SELECT 4	75 mm
WHT(BRN/GRY)	33	GND	73 mm
WHT(BLK/GRY)	U	DIRECTION SELECT	73 mm
WHT(RED/YEL)	35	GND	71 mm
WHT(ORG/YEL)	V	STEP	71 mm
WHT(RED/GRN)	37	GND	69 mm
WHT(ORG/GRN)	W	WRITE DATA	69 mm

WIRE COLOR	PIN #	SIGNAL	STRIP LENGTH-X
WHT(RED/BLU)	39	GND	67 mm
WHT(ORG/BLU)	X	WRITE GATE	67 mm
WHT(RED/VIO)	41	GND	65 mm
WHT(ORG/VIO)	Y	TRACK 00	65 mm
WHT(RED/GRAY)	43	GND	63 mm
WHT(ORG/GRAY)	Z	WRITE PROTECT	63 mm
WHT(YEL/BLU)	45	GND	61 mm
WHT(GRN/BLU)	a	READ DATA	61 mm
WHT(YEL/VIO)	47	GND	59 mm
WHT(GRN/VIO)	b	SEPARATED DATA	59 mm
WHT(YEL/GRY)	49	GND	57 mm
WHT(GRN/GRY)	c	SEPARATED CLOCK	57 mm

NOTES:

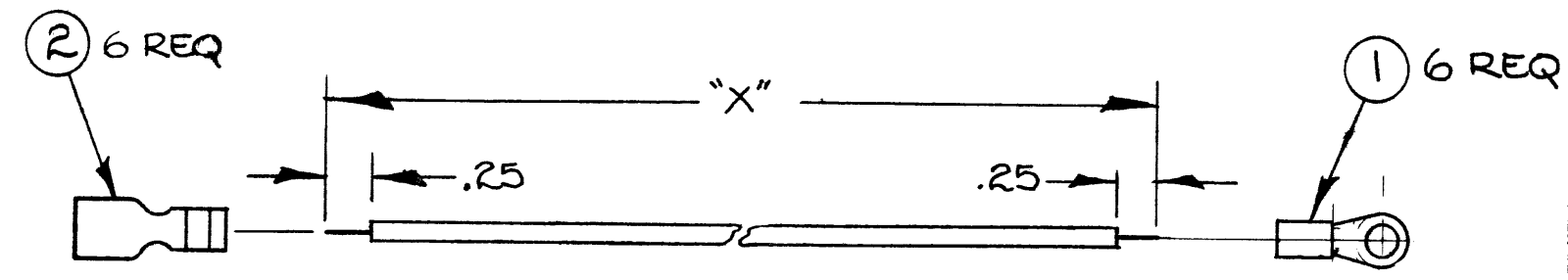
1 ATTACH ITEM 6 TO CONNECTOR ON THE SIDE DESIGNATED 1 THRU 25.

ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L. PART NO.	MAT'L. DWG. NO.	MAT'L. SPEC.
6	1	HEATSHRINK - 25 mm LONG	0890-0273		
4	100	CONNECTOR CONTACT-CRIMP	1251-3882		
3	2	CONNECTOR HOUSING	1251-6020		
2	1	HOOD-CONNECTOR	1251-6971		
1	1	CABLE, SHIELDED-25 Tw Pr-2200mm	8120-2524		26 AWG

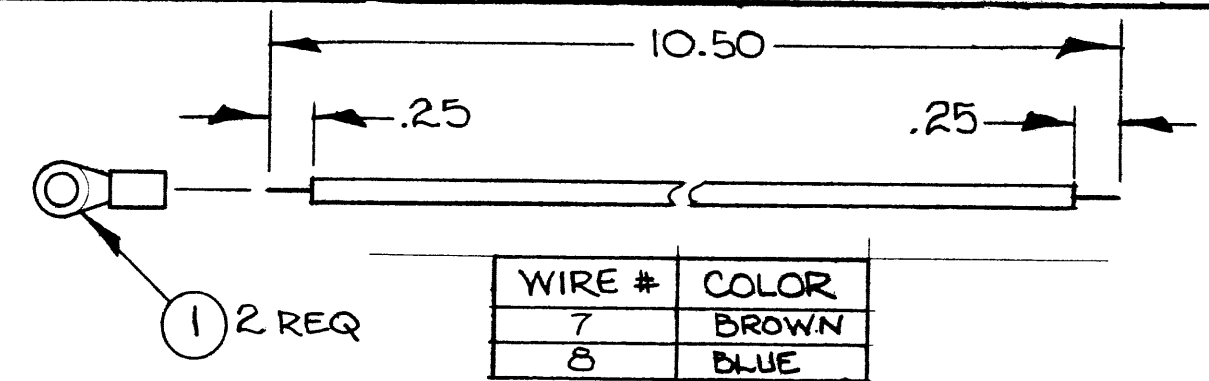
DO NOT SCALE THIS DRAWING	CABLE - 9895 CONTROLLER	HEWLETT PACKARD
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS TOLERANCES .XX ± 0.4 mm XX.0 ± 0.1 mm SEE CORP. STD. 006		45000 - 61642
	NEXT ASSEMBLY	PART NUMBER
	FINISH	C-45000-61642-1
	SCALE	SHEET OF

ENGINEERING RESPONSIBILITY													SYM		REVISIONS		APPROVED		DATE	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	A	AS ISSUED	JK/	JK/	1-22-8
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47					
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63					

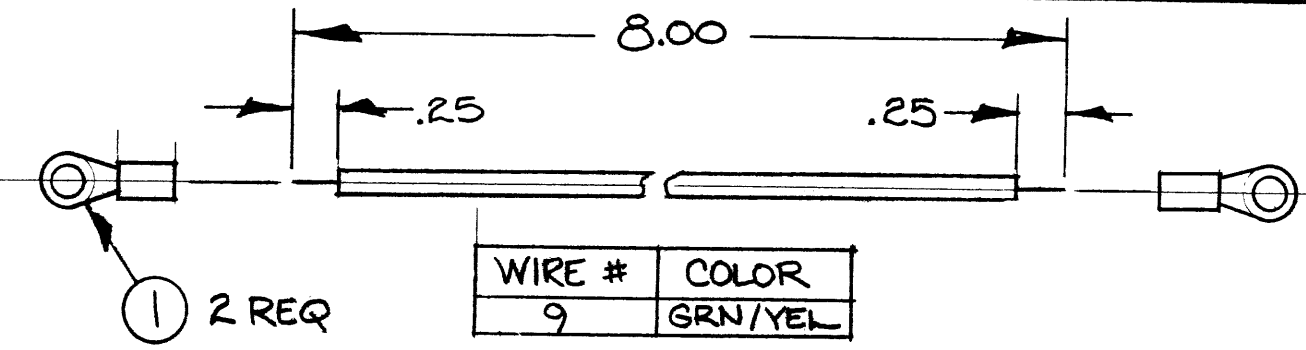
B-45000-6164H -
 APPROVED: JK/ JK/
 DATE: 1-22-8



WIRE #	COLOR	X-DEM
1	BROWN	5
2	BROWN	7.25
3	BROWN	8
4	BLUE	6
5	BLUE	7
6	BLUE	9.50



WIRE #	COLOR
7	BROWN
8	BLUE



WIRE #	COLOR
9	GRN/YEL

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
5	.67ft	WIRE - 14 AWG - GRN/YEL	8150-2624		
4	2.75ft	WIRE - 14 AWG - BLU	8150-2467		
3	2.56ft	WIRE - 14 AWG - BRN	8150-2463		
2	6	TERM - SNIP ON	0362-0531		
1	10	TERM - CRIMP #10	0362-0097		

DO NOT SCALE THIS DRAWING
 UNLESS OTHERWISE SPECIFIED,
 DIMENSIONS ARE IN INCHES.
 TOLERANCES .XX ± .02 .XXX ± .005
 SEE CORP. STD. 608

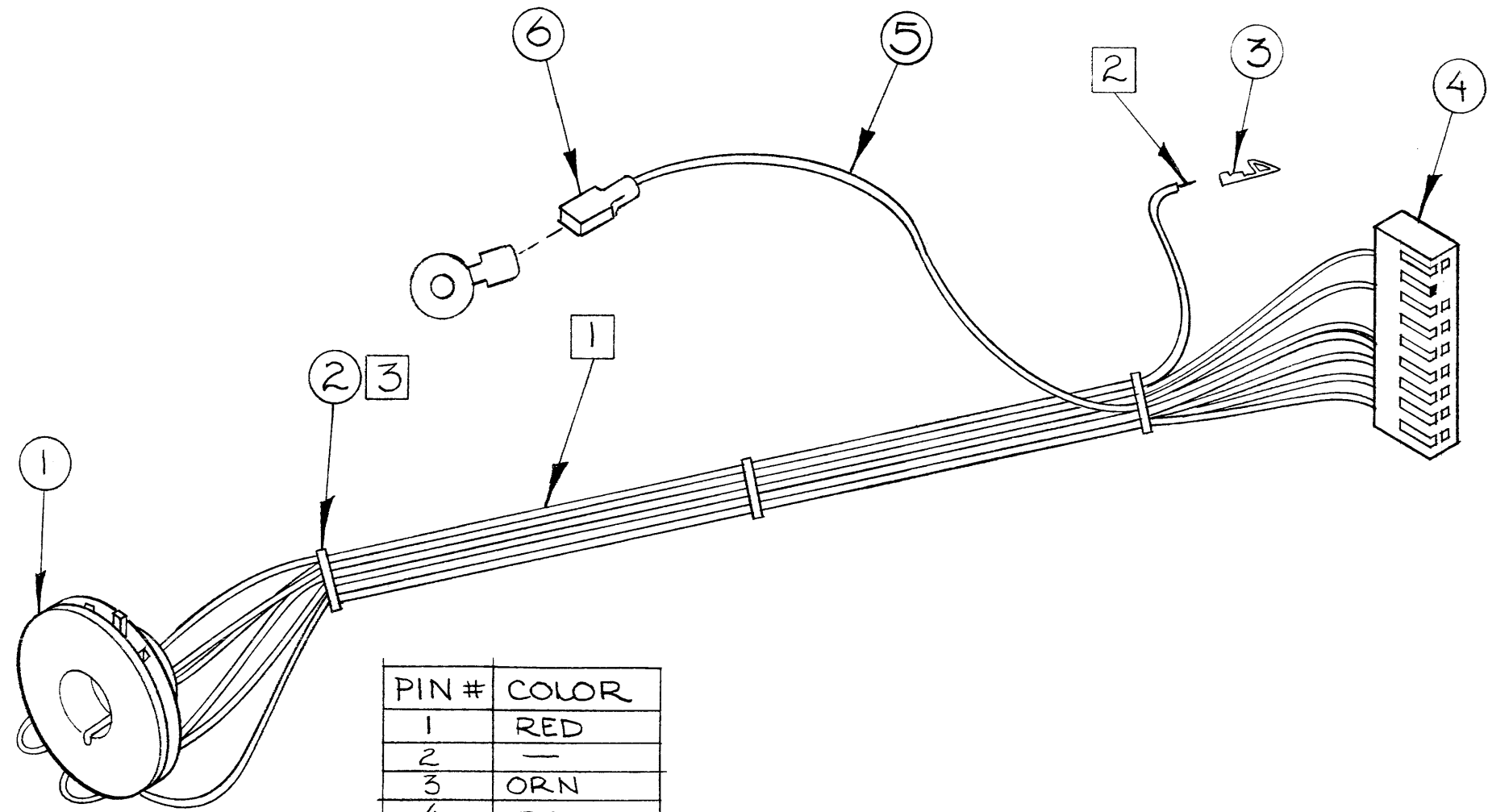
DRAWN BY _____ DATE _____
 ENGINEER _____
 RELEASE TO PROD. _____
 SUPERSEDES DWG. _____

**WIRE SET -
 PRIMARY POWER**
 TITLE
 SEE KARDEX
 NEXT ASSEMBLY
 FINISH _____ SCALE _____

HEWLETT PACKARD
 45000-61644
 PART NUMBER
B-45000-61644-1

ENGINEERING RESPONSIBILITY														SEPIA		APERTURE					
0	1	2	3	4	6	8	9	11	12	14	15			SYM		REVISIONS		APPROVED		DATE	
16	17		19		21	22	23	25	29	30	32	33	38	43	A	AS ISSUED		MJS		12/81	
45	46	61	63																		

B-45000 - 61645 - 1



NOTES:

- 1 CUT SOCKET WIRES 9" LONG
- 2 STRIP WIRE .125 & CRIMP CONTACTS
- 3 TIE WRAP 3 PLCS EQUAL SPACE

PIN #	COLOR
1	RED
2	—
3	ORN
4	—
5	WHT/BLK
6	GRN
7	BRN
8	BLK
9	YEL

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
7	1	TERMINAL QUICK	0360-1934		
6	1	TERM. SLIP ON	0362-0531		
5	1.25 FT	WIRE, 18 GA WHT/BLK	8150-3508		
4	1	CONNECTOR-8 PIN	1251-5512		
3	7	CONTACT (18-24 AWG)	1251-0670		
2	3	TIE WRAP	1400-0249		
1	1	CRT SOCKET CABLE	1200-0543		

DO NOT SCALE THIS DRAWING

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES.

TOLERANCES .XX ± .02 .XXX ± .005

SEE CORP. STD. 608

CRT SOCKET
CABLE

TITLE

45000-66562

NEXT ASSEMBLY

FINISH — SCALE —

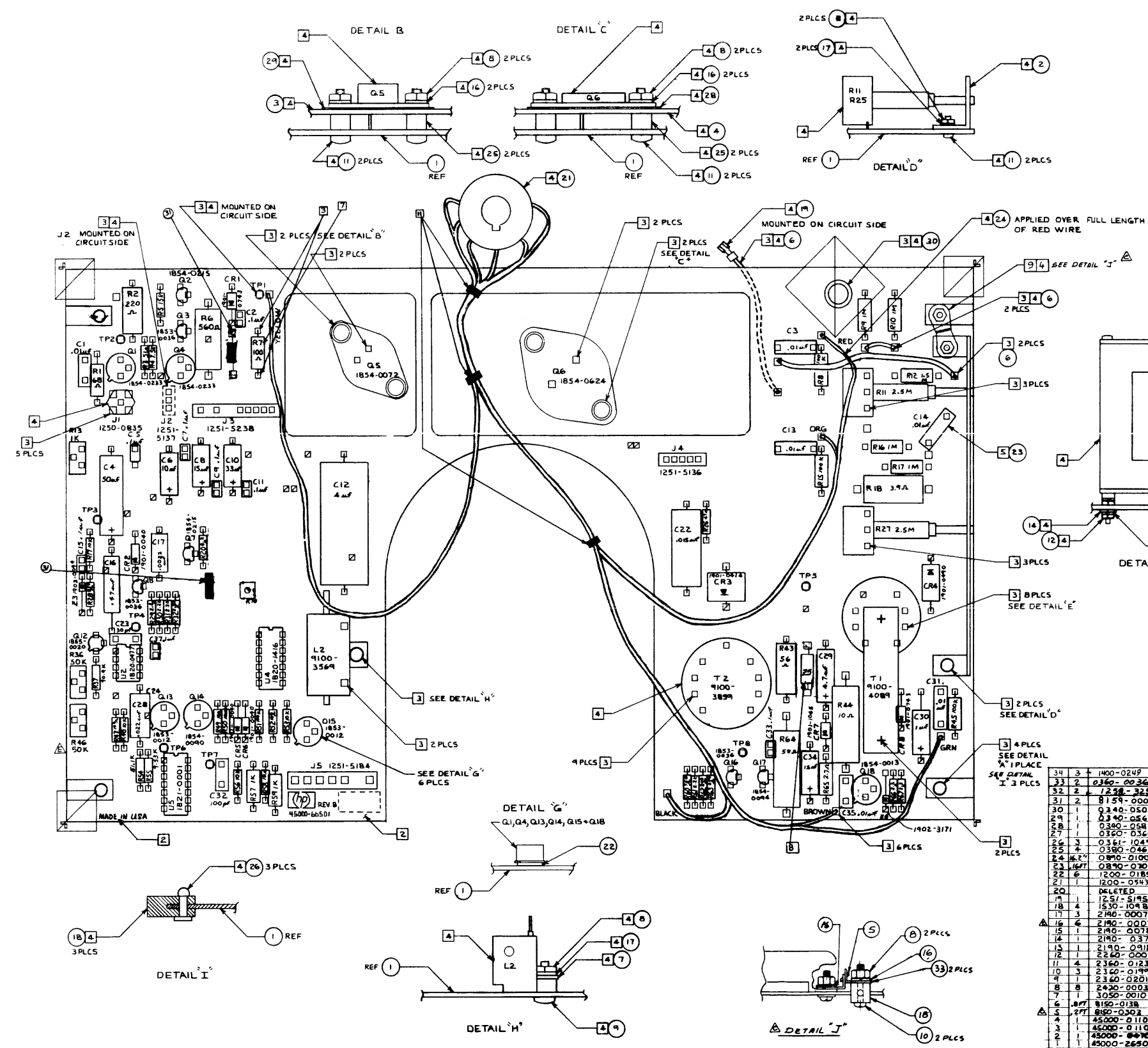
HEWLETT PACKARD

45000-61645

PART NUMBER

B-45000-61645-1

REV	DESCRIPTION	DATE	BY	CHKD
1	REVISED PER PCD 67-0120	1/28/55	JTK/W.S.	
2	REVISED PER PCD 67-0120	1/28/55	JTK/W.S.	
3	REVISED PER PCD 67-0120	1/28/55	JTK/W.S.	
4	REVISED PER PCD 67-0120	1/28/55	JTK/W.S.	
5	REVISED PER PCD 67-0120	1/28/55	JTK/W.S.	

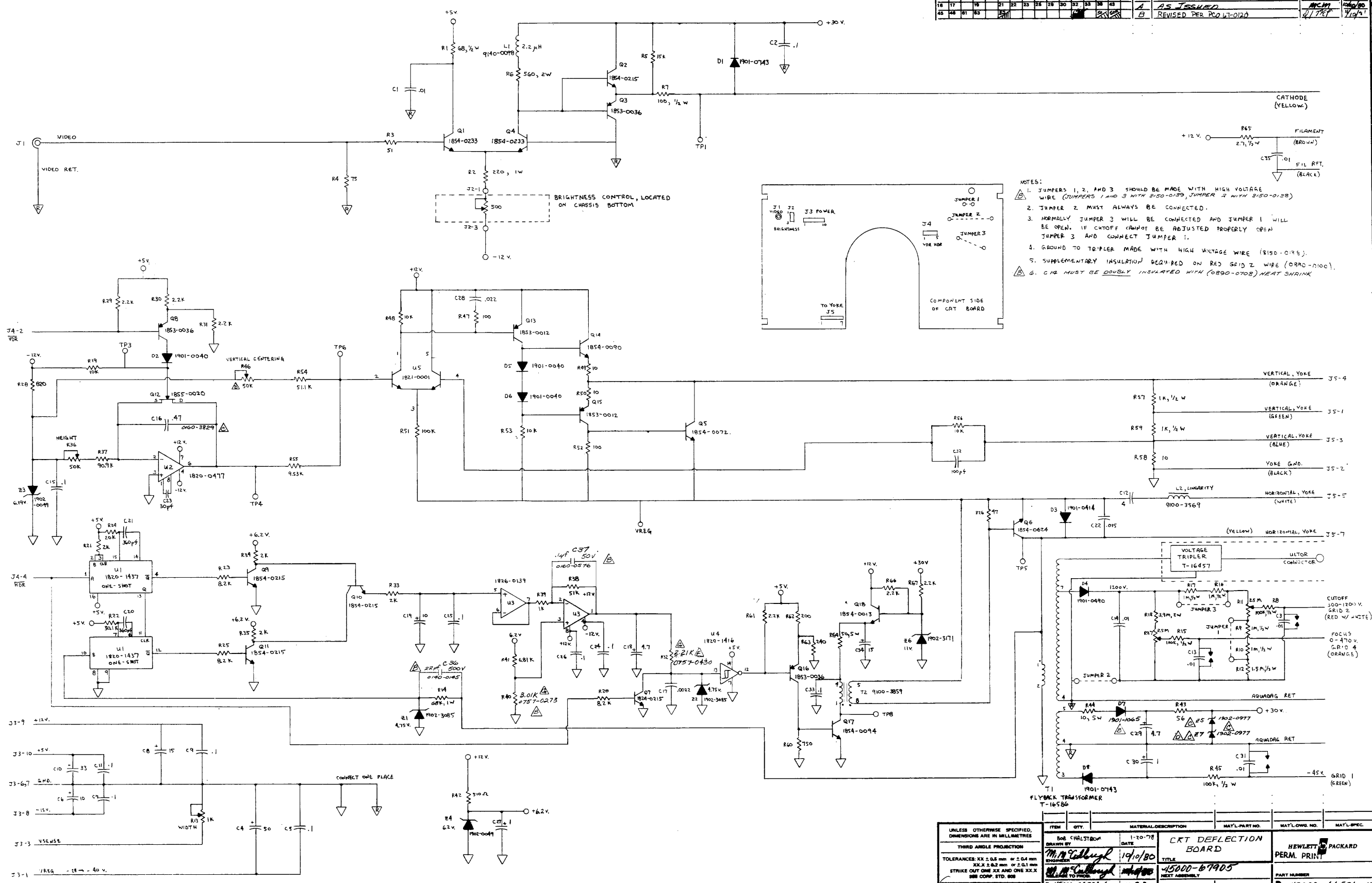


- NOTES:
- UNLESS OTHERWISE SPECIFIED ALL RESISTANCE VALUES ARE IN OHM 4/5% ALL CAPACITANCE IN MICROFARADS
 - MARK DATE CODE 2148 AND MADE IN USA. MASK AS INDICATED PRIOR TO LOADING
 - INSTALL THE FOLLOWING ITEMS IN PC FINAL ASSY. (2-21) AND (23)-(29) AND (31)-(33)
 - C14 MAY BE LOADED PRIOR TO WAVE SOLDER BUT HEAT SHRINK TUBING ITEM 9 SHALL BE APPLIED AT FINAL ASSY. ONLY
 - INSULATED GLASS BEADS PIN 4330-0952 TO BE LOADED ON THE FOLLOWING COMPONENTS: C1, 2, 5, 7, 9, 11, 15, 24, 25, 26, 33, 35 AND 37.
 - R7 (27) R68 AND R69 ARE TO BE LOADED PER MODIFICATION DWGS. C-45000-64501-14&15. TO BE INSTALLED AFTER WAVE SOLDER
 - 25 1902-0644 IS NOW LOADED WITHOUT A HEATSINK.
 - INSTALL SOLDER LUGS AS SHOWN BY DETAIL J AND SOLDER WIRE ITEM 9 BETWEEN THE 2 SOLDER LUGS. INSPECT THE SOLDER JUNCTION TO INSURE A GOOD ELECTRICAL PATH BETWEEN THE 2 LUGS.
 - CUT THE LEADS OF THE CRT CONNECTOR CABLE (1000-0543) TO THE FOLLOWING LENGTHS:
GREEN - 1/2"
RED - 1/4"
BLACK - 1/4"
BROWN - 1/4"
YELLOW - 1/4"
 - CABLE TIE THE INDICATED LOCATIONS USING CABLE TIE (1000-0249)

QTY	PART NUMBER	DESCRIPTION
34	1400-0249	CABLE TIE
33	0360-0026	SOLDER LUG
32	1228-3250	SOLDER POST
31	8154-0005	JUMPER
30	0340-0502	INSULATOR FLANGED BUSHING
29	0340-0566	INSULATOR TRANSISTOR T0-66
28	0380-0583	INSULATOR TRANSISTOR T0-3
27	0360-0365	TERMINAL SOLDER LUG
26	0361-1049	RIVET BLIND
25	0380-0461	SPACER .55X.188 LG.
24	0890-0100	TUBING HEAT SHRINK .093
23	0890-0708	TUBING HEAT SHRINK .375
22	1200-0185	INSULATOR TRANSISTOR NYLON
21	1000-0543	CONNECTOR CRT NECK
20	DELETED	
19	1251-5195	SPADE LUG
18	1530-1048	FASTENER # 6
17	2190-0007	WASHER LOCK 6 INT.
16	2190-0008	WASHER LOCK 6 EXT.
15	2190-0078	WASHER LOCK 4 MEL.
14	2190-0376	WASHER FLAT
13	2190-0918	WASHER LOCK SPLIT
12	2260-0002	NUT #4-40 .188 AF.
11	2360-0123	SCREW #6-32X.62 PH.
10	2360-0199	SCREW #6-32X.44 PH.
9	2360-0201	SCREW #6-32X.50 PH.
8	2430-0003	NUT #6-32 .250 AF.
7	3050-0010	WASHER FLAT # 6
6	8150-0138	WIRE 18 AWG BLACK
5	8150-0139	WIRE 18 AWG BLACK
4	45000-01103	CRT HEATSINK
3	45000-01104	CRT HEATSINK
2	45000-01105	CRT HEATSINK
1	45000-2650	PC BOARD BLANK CRT

T. COOPER DESIGNED BY	6-24-54 DATE	PC ASSEMBLY 6-2-55 PC ASSEY. 111	PC BOARD BLANK CRT
REVISED PER PCD 67-0120	REVISED PER PCD 67-0120	REVISED PER PCD 67-0120	REVISED PER PCD 67-0120
REVISED PER PCD 67-0120	REVISED PER PCD 67-0120	REVISED PER PCD 67-0120	REVISED PER PCD 67-0120
REVISED PER PCD 67-0120	REVISED PER PCD 67-0120	REVISED PER PCD 67-0120	REVISED PER PCD 67-0120

ENGINEERING RESPONSIBILITY										REVISIONS																														
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
BY: <i>AS ISSUED</i>										DATE: <i>12/20/80</i>																														
BY: <i>REVISED PER P.O. 41-0120</i>										DATE: <i>1/17/81</i>																														

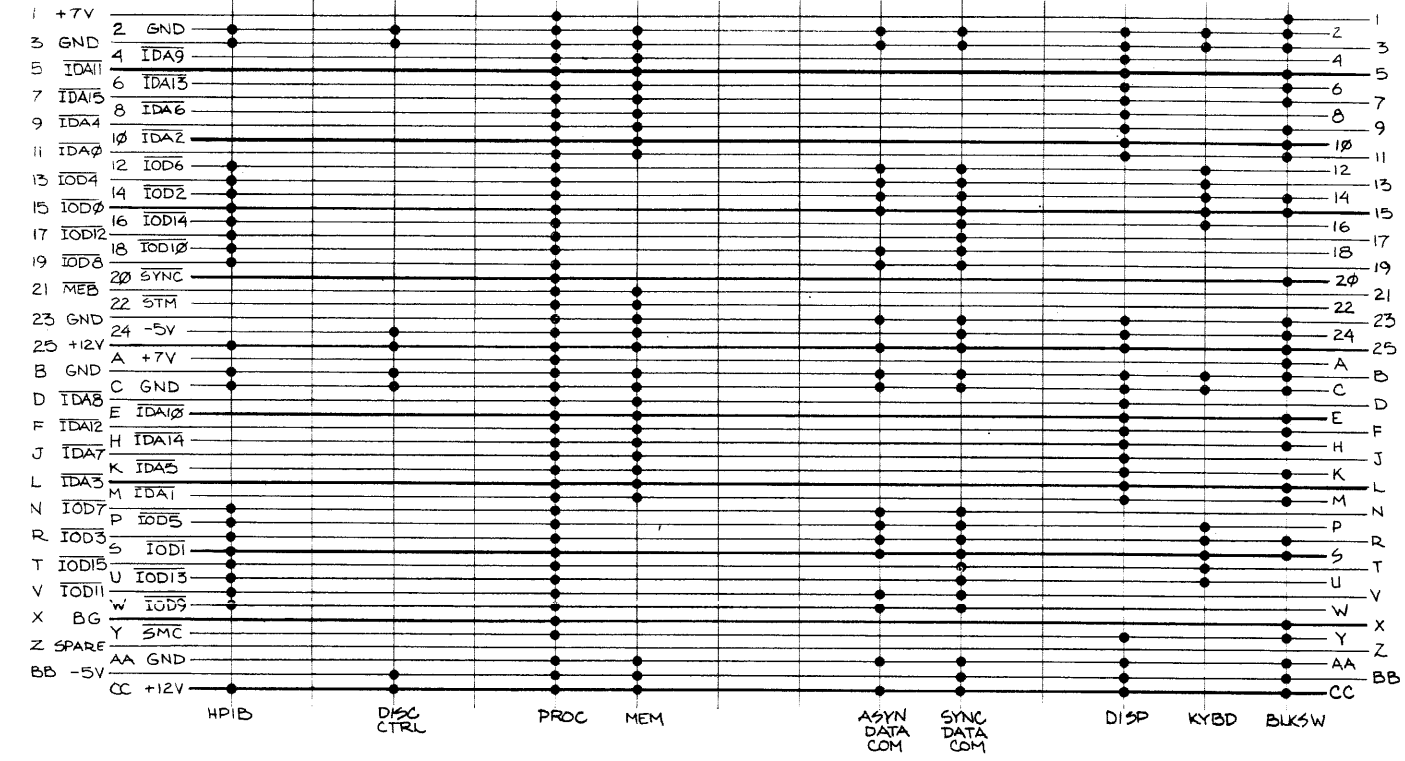


- NOTES:
- JUMPERS 1, 2, AND 3 SHOULD BE MADE WITH HIGH VOLTAGE WIRE (JUMPERS 1 AND 3 WITH 8150-0139, JUMPER 2 WITH 8150-0138)
 - JUMPER 2 MUST ALWAYS BE CONNECTED.
 - NORMALLY JUMPER 3 WILL BE CONNECTED AND JUMPER 1 WILL BE OPEN. IF CUTOFF POINT BE ADJUSTED PROPERLY OPEN JUMPER 3 AND CONNECT JUMPER 1.
 - GROUND TO TRIPLER MADE WITH HIGH VOLTAGE WIRE (8150-0135).
 - SUPPLEMENTARY INSULATION REQUIRED ON RED GRID 2 WIRE (0890-1100).
 - C12 MUST BE DOUBLY INSULATED WITH (0890-0708) HEAT SHRINK.

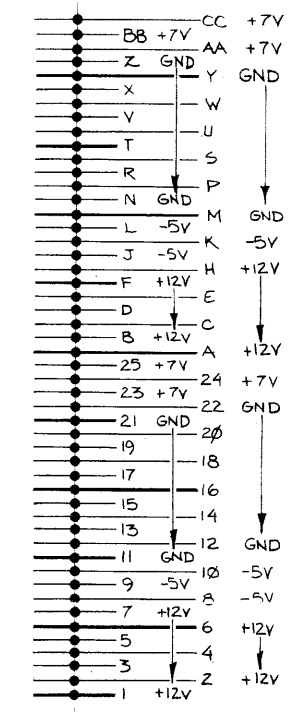
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES		THIRD ANGLE PROJECTION		TOLERANCES: XX ± 0.5 mm or 2.0 mil XXX ± 0.2 mm or 2.0 mil STRIKE OUT ONE XX AND ONE XXX USE COMP. STD. DIM.		DO NOT SCALE THIS DRAWING	
ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L. PART NO.	MAT'L. DIM. NO.	MAT'L. SPEC.	DRAWN BY: <i>Bob Christman</i> DATE: <i>1-20-78</i>	
TITLE: CRT DEFLECTION BOARD						HEWLETT-PACKARD PERM. PRINT	
PART NUMBER: 45000-67905						SCALE: D-45000-66501-16	

CONNECTOR SIDE

A4J1

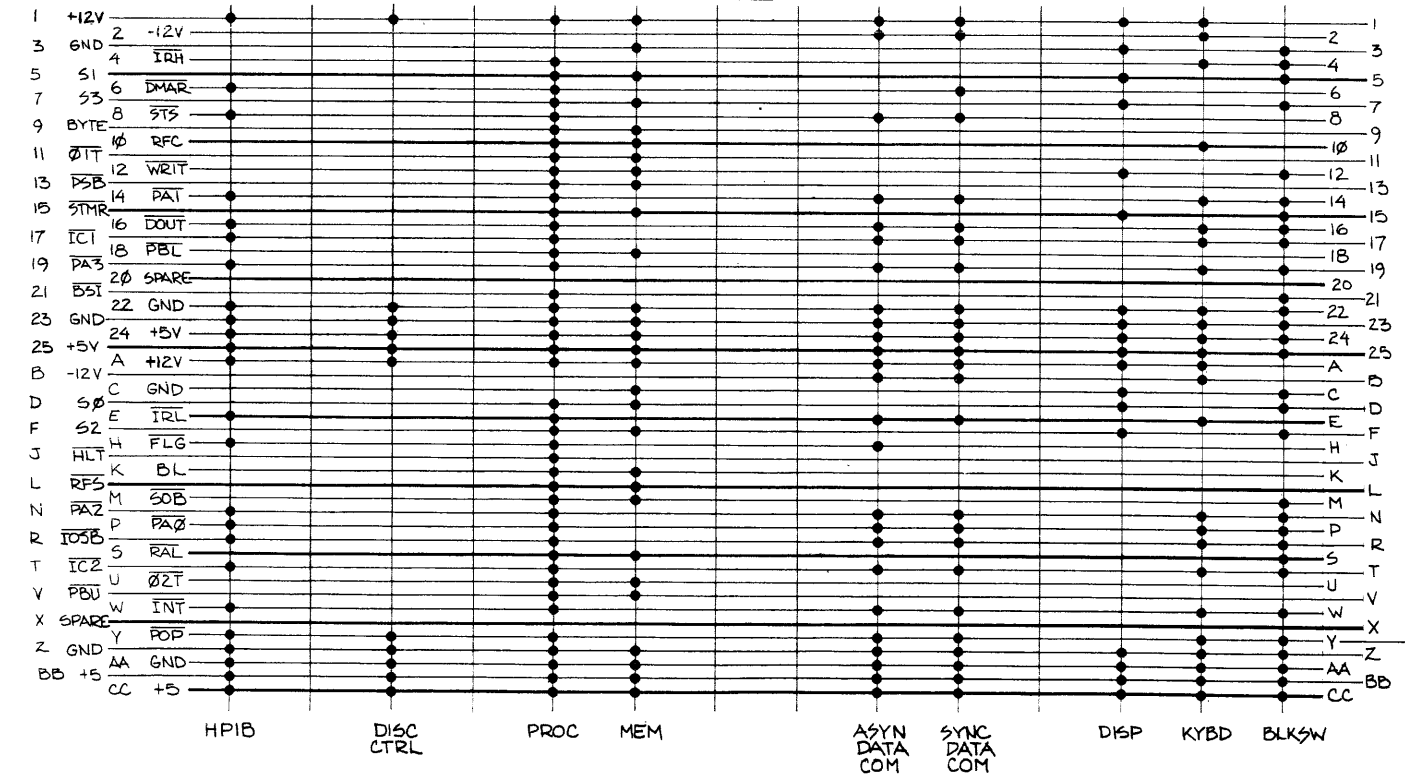


A4J3

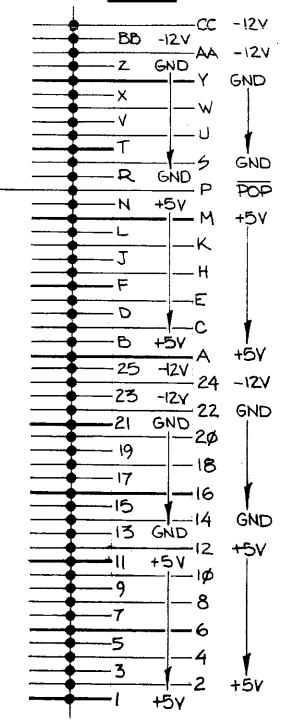


CONNECTOR SIDE

A4J2

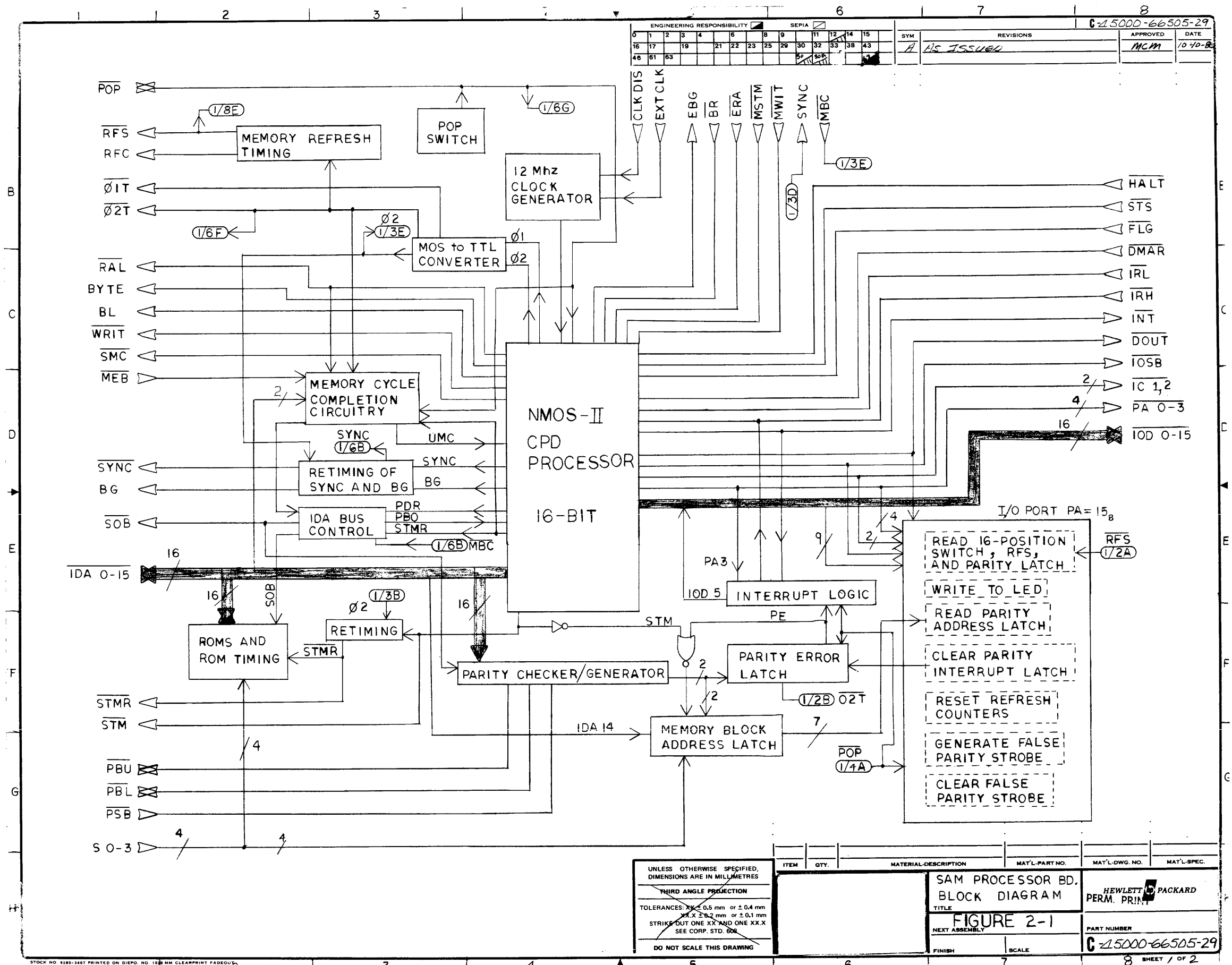


A4J4



DO NOT SCALE THIS DRAWING		UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES .XX ± .02 .XXX ± .005		SEE COMP. STD. 008	
ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG. NO.	MAT'L SPEC.
PCA - MOTHER			HEWLETT-PACKARD		
TITLE			45000-67901		
NEXT ASSEMBLY			45000-66504		
FINISH			SCALE		
D-45000-66504-16			SHEET OF		

STOCK NO. 3140-0001 PRINTED ON CLERO NO. 100-10 CLEARPRINT PAPER

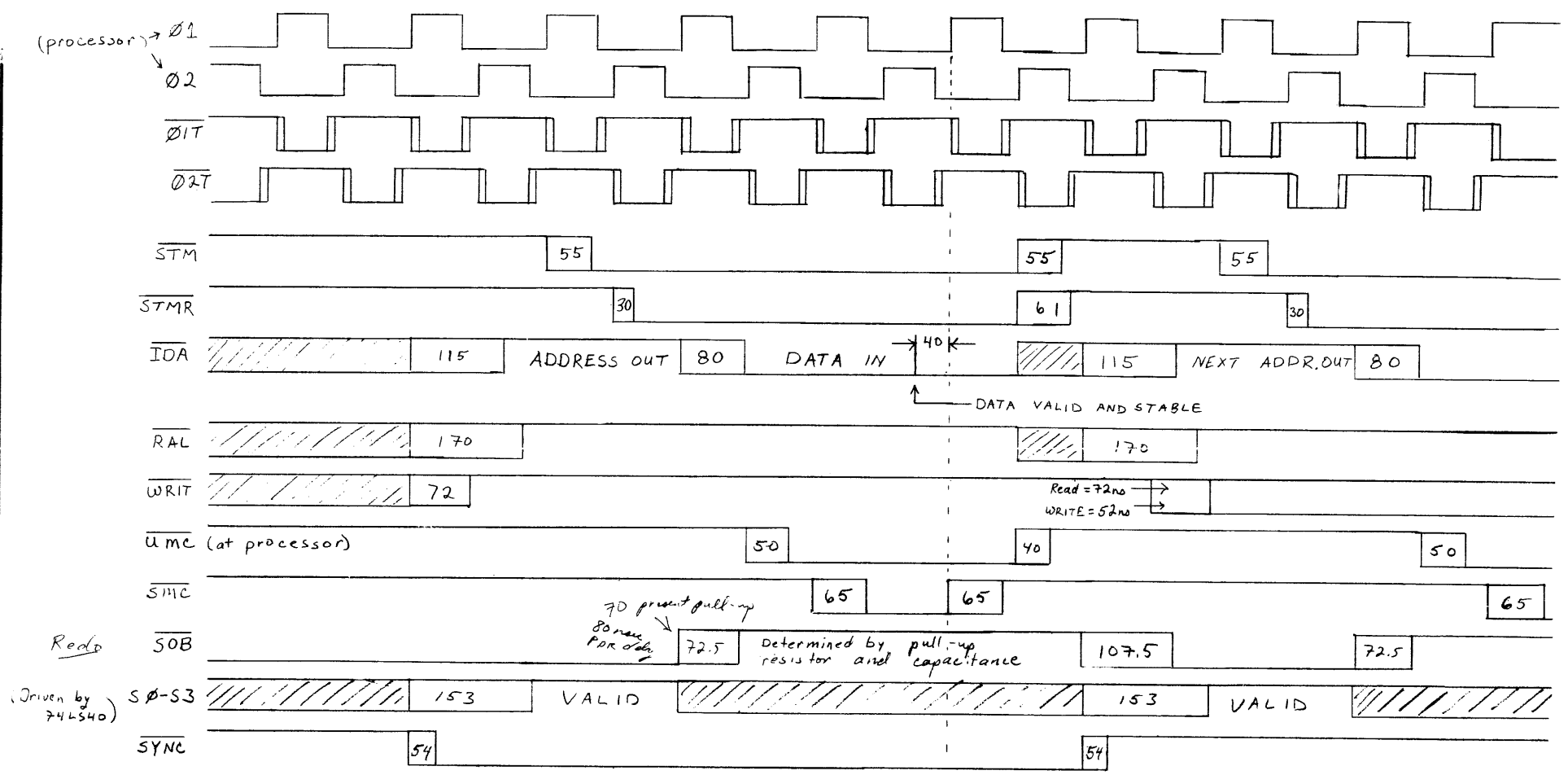


ENGINEERING RESPONSIBILITY															SEPIA		REV. NO.		DATE	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	APPROVED		DATE		
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	MCM		10/10/82		
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47					
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63					

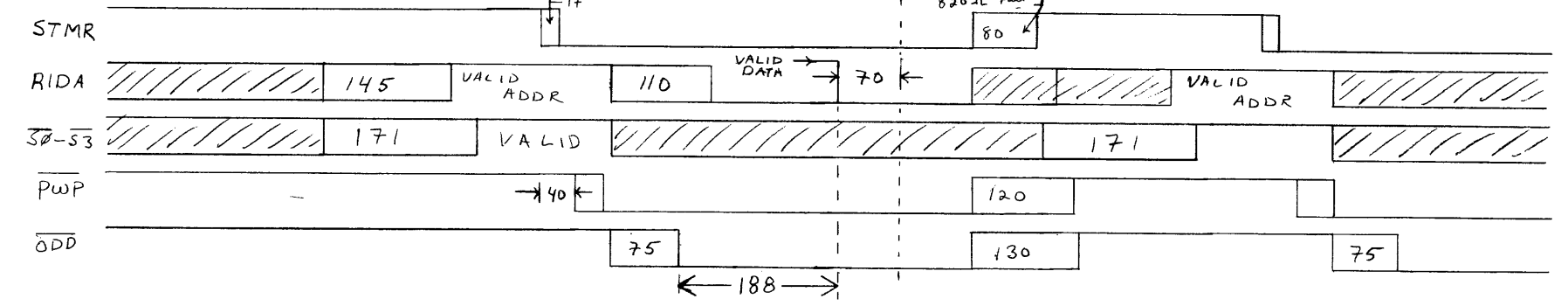
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES					
THIRD ANGLE PROJECTION					
TOLERANCES: XX ± 0.5 mm or ± 0.4 mm					
XX.X ± 0.2 mm or ± 0.1 mm					
STRIKE OUT ONE XX AND ONE XX.X					
SEE CORP. STD. 808					
DO NOT SCALE THIS DRAWING					
ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
		SAM PROCESSOR BD.			
		BLOCK DIAGRAM			
		TITLE			
		FIGURE 2-1			
		NEXT ASSEMBLY			
		FINISH			
		SCALE			
		PART NUMBER			
		C 15000-66505-29			
		SHEET			
		1 OF 2			

SIGNALS ON THE MOTHERBOARD

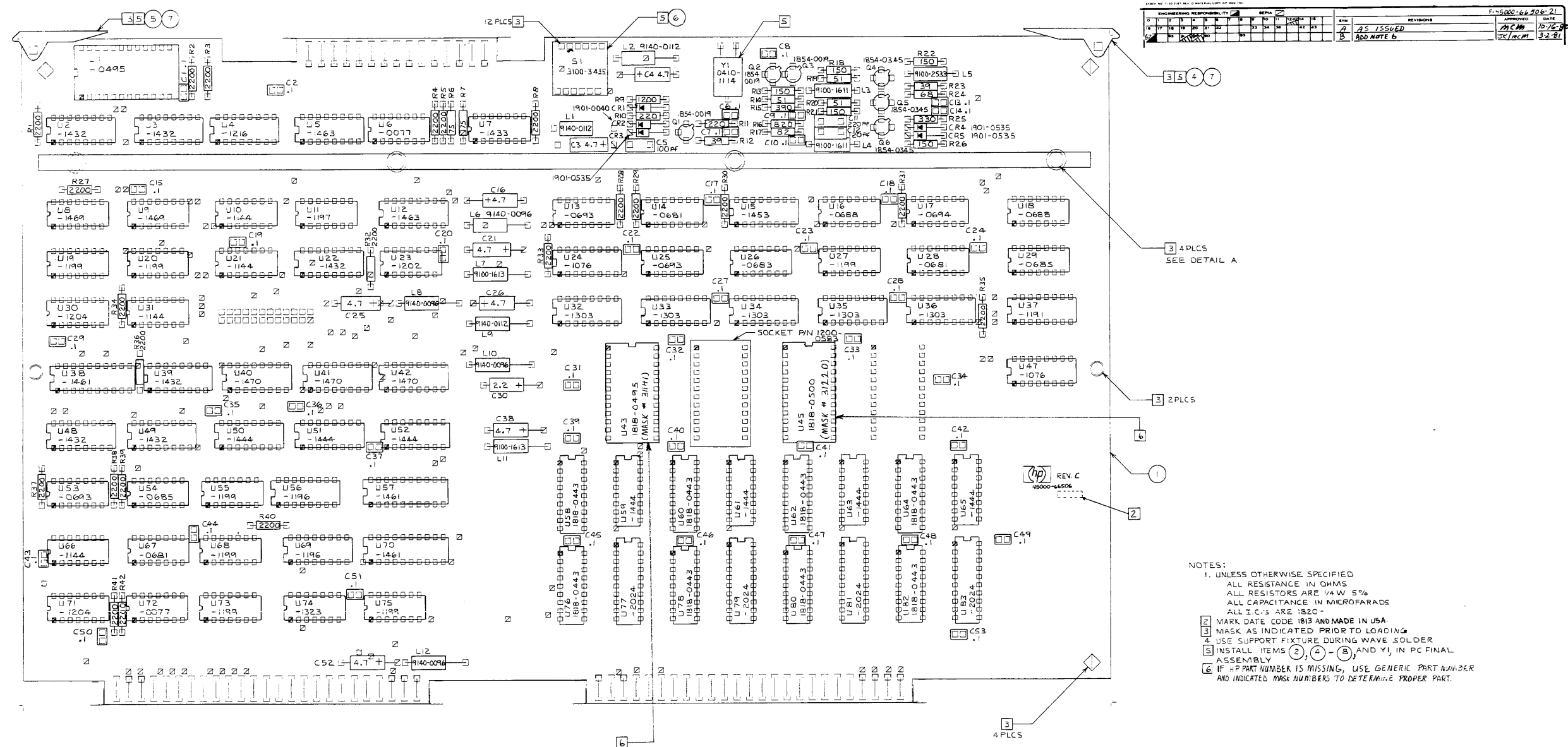
ENGINEERING RESPONSIBILITY															SEPIA		C-15000-66505-29						
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	SYM		REVISIONS		APPROVED		DATE	
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	A		AS ISSUED		MCM		10/10/80	
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47								



CPU BOARD ROM SIGNALS

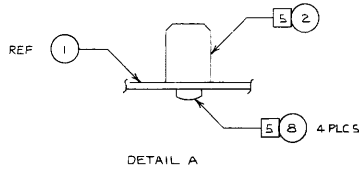


UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS		ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG. NO.	MAT'L SPEC.
THIRD ANGLE PROJECTION		FIGURE 2-2 MOTHERBOARD and ROM TITLE TIMING DIAGRAM 45000-67901, 45000-67907 NEXT ASSEMBLY					
TOLERANCES: XX ± 0.5 mm or ± 0.4 mm							
XX ± 0.2 mm or ± 0.1 mm							
STRIKE OUT ONE XX AND ONE XX.X SEE CORP. STD. 600							
DO NOT SCALE THIS DRAWING		HEWLETT PACKARD		PART NUMBER			
		PERM. PRINT		C-15000-66505-29			
		FINISH		SCALE			



ENGINEERING RESPONSIBILITY										REV. NO.		DATE	
DESIGN	CHECK	APP'D	DATE	BY	DATE	BY	DATE	BY	DATE	REV.	DATE	BY	DATE
										15	12/28/66		
										B			

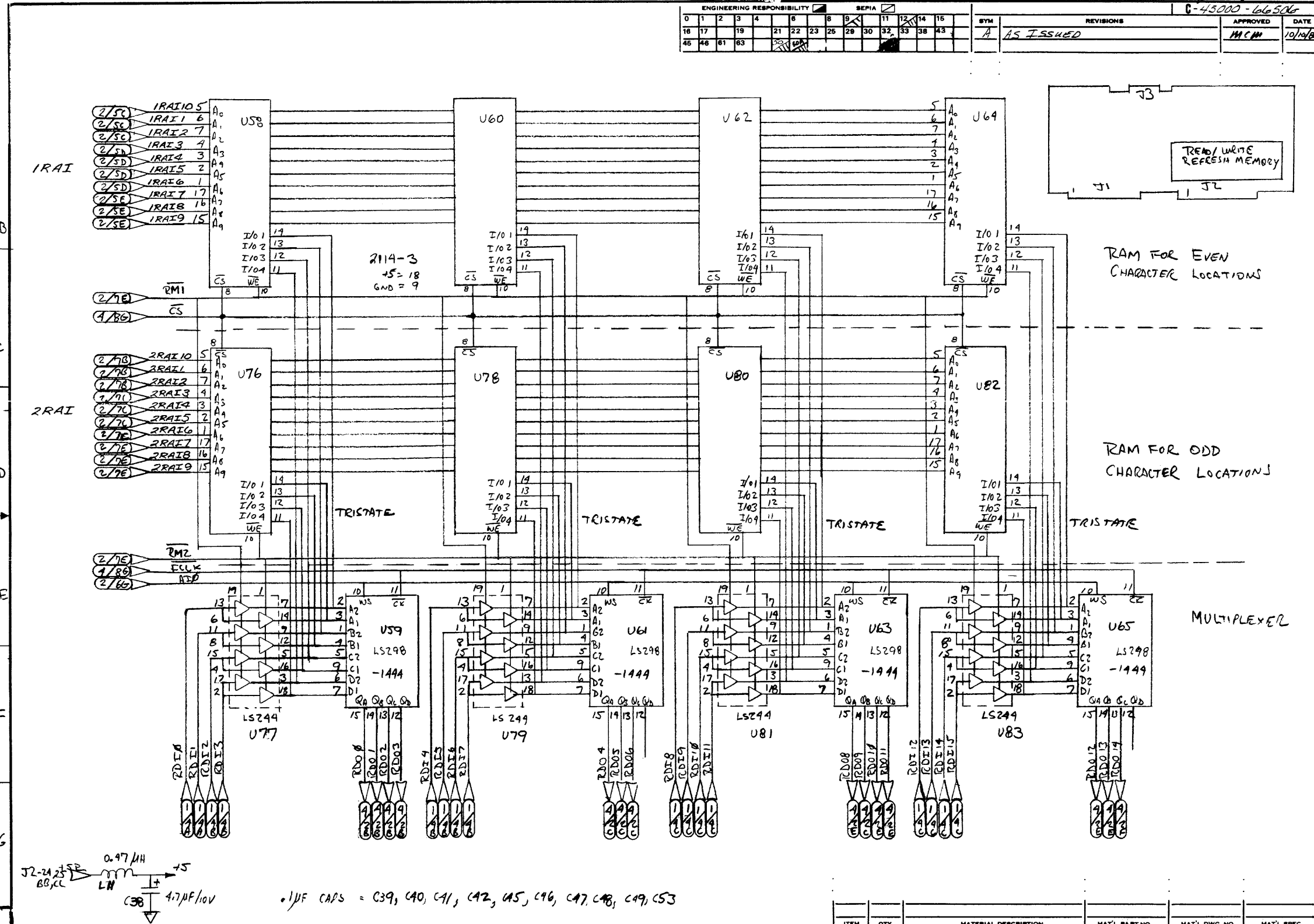
- NOTES:
- UNLESS OTHERWISE SPECIFIED ALL RESISTANCE IN OHMS ALL RESISTORS ARE 1/4W 5% ALL CAPACITANCE IN MICROFARADS ALL I.C.'S ARE 1820-
 - MARK DATE CODE 1818 AND MADE IN USA
 - MASK AS INDICATED PRIOR TO LOADING
 - USE SUPPORT FIXTURE DURING WAVE SOLDER
 - INSTALL ITEMS (2), (4), (5) AND Y1 IN PC FINAL ASSEMBLY
 - IF HP PART NUMBER IS MISSING, USE GENERIC PART NUMBER AND INDICATED MASK NUMBERS TO DETERMINE PROPER PART.



ITEM	QTY	DESCRIPTION	PART NO.
5	4	SCREW TAP 4-40x.31	0624-0077
7	2	PIN GROOVE .062 X .250 LG.	1480-0116
6	1	SWITCH ROTARY IP 40 POS.	3100-3435
5	1	EXTRACTOR P.C. BD. BLACK	4040-0148
4	1	EXTRACTOR P.C. BD. ORANGE	4040-0751
3	82	INSULATOR GLASS BEAD	4330-0496
2	1	BRACE P.C. BOARD	5040-6056

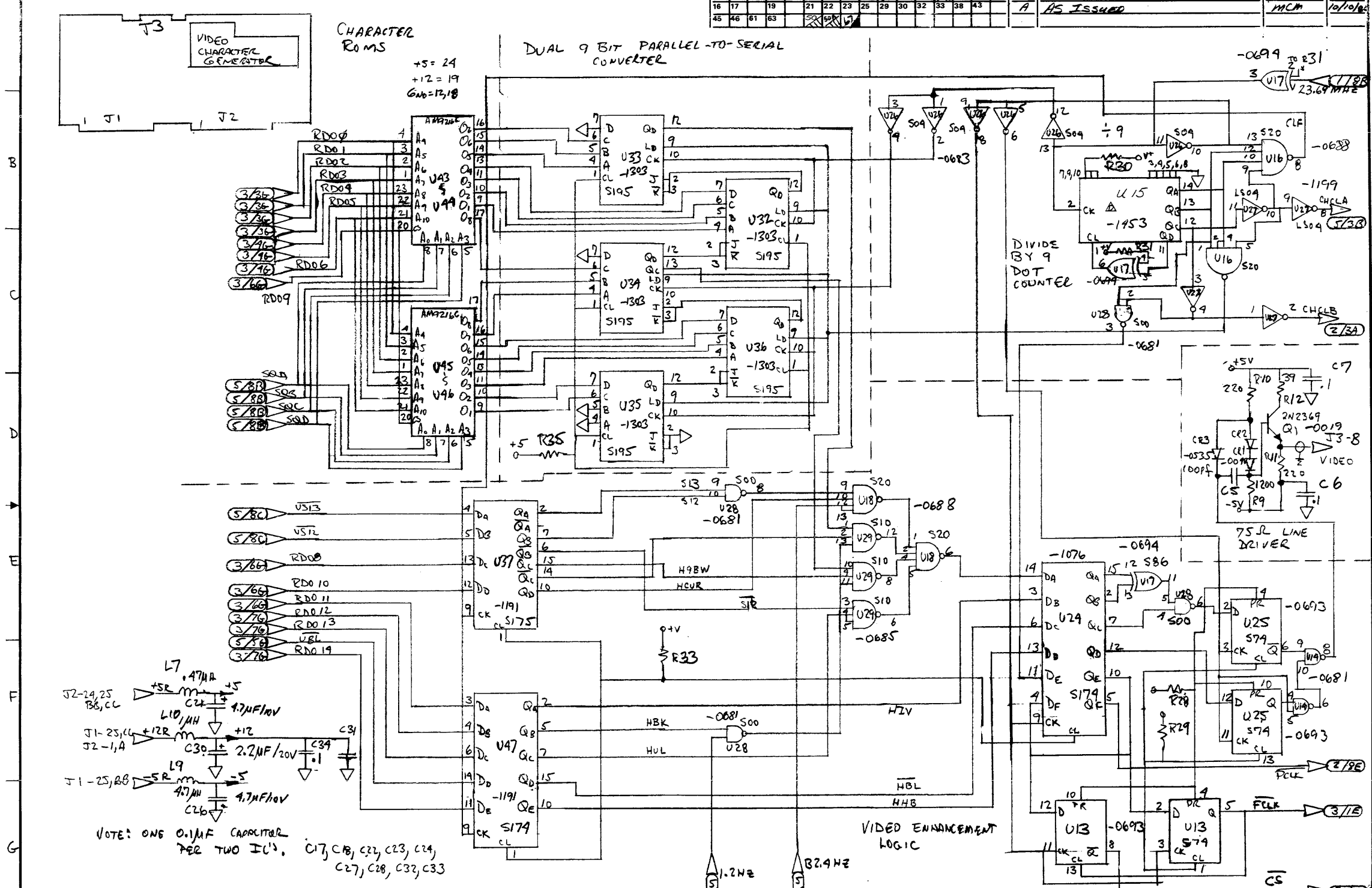
DO NOT SCALE THIS DRAWING		MATERIAL DESCRIPTION		MATERIAL PART NO.		MATERIAL SPEC.	
1	1	PCB ETCHED		45000-26506			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: .125 DIA. ±.010 .125 DIA. ±.010 .125 DIA. ±.010		DISPLAY P.C. BD. ASSEMBLY		HEWLETT-PACKARD		45000-66506-1	
		45000-67901, 45000-67907		PART NUMBER		45000-66506-21	
		SCALE: 2:1					

ENGINEERING RESPONSIBILITY															SEPIA		SYN		REVISIONS		APPROVED		DATE																	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	A		AS ISSUED		MCM		10/14/82																		
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50						



DO NOT SCALE THIS DRAWING		UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.		TOLERANCES .XX ± .02 .XXX ± .005		SEE CORP. STD. 608	
ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.	HEWLETT-PACKARD PERM. PRINT	
		READ / WRITE REFRESH MEMORY		TITLE		PART NUMBER	
		45000-67901, 45000-67907		NEXT ASSEMBLY		C-45000-66536-26	
		FINISH		SCALE		SHEET 3 OF 3	

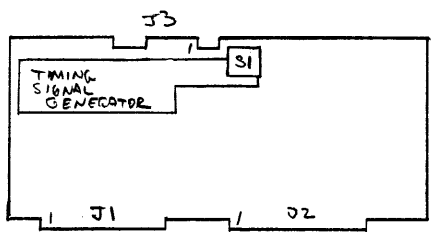
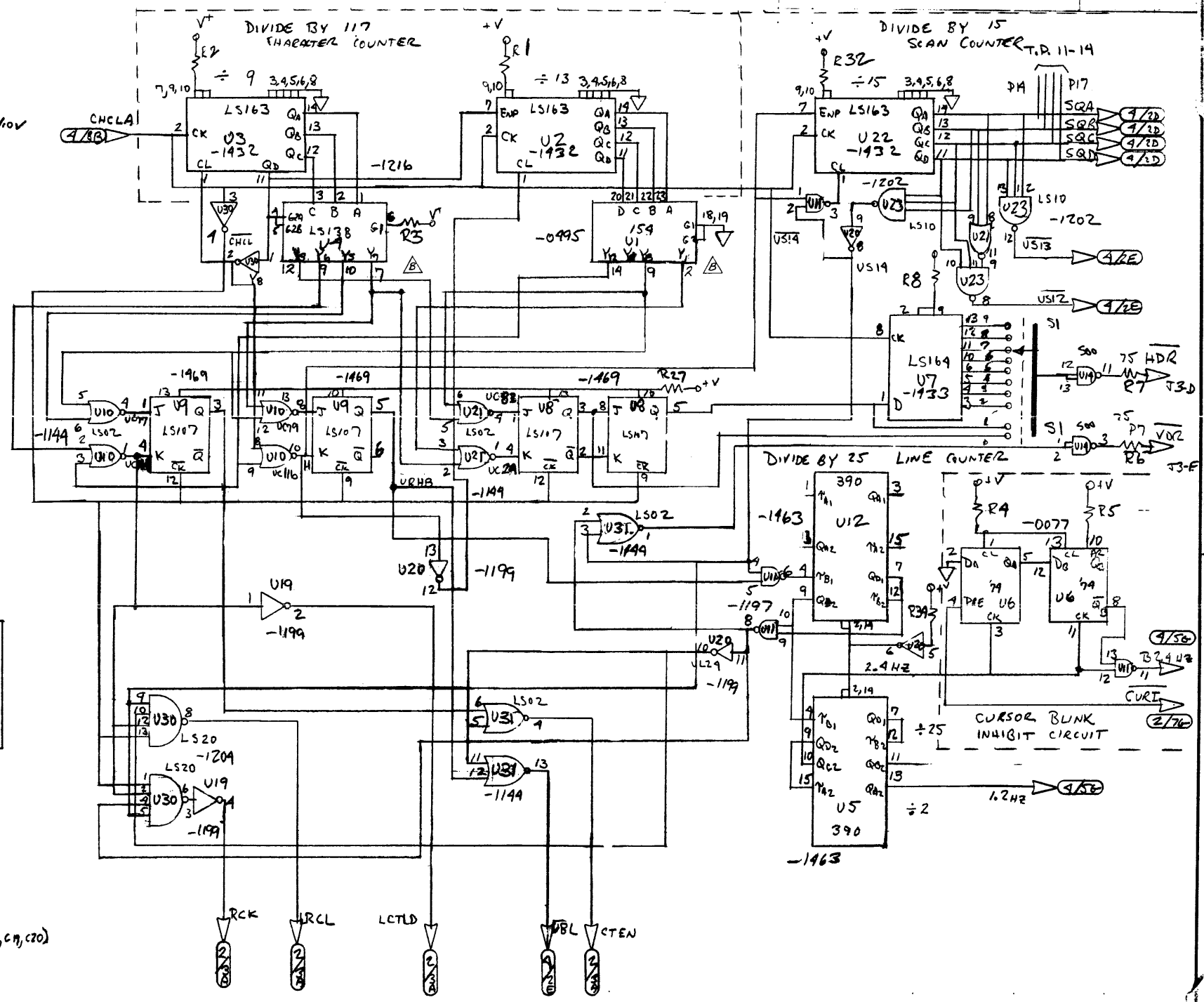
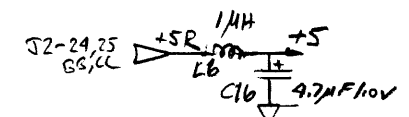
ENGINEERING RESPONSIBILITY															SEPIA		G-45000-66506-26		
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	SYM	REV	APPROVED	DATE
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	A	AS ISSUED	MCM	10/10/68
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47				



BIT 6	CHARACTER SELECT
BIT 8,9	ROM SELECT
BIT 10	CURSOR
BIT 11	I/V
BIT 12	BLANK
BIT 13	UNDERLINE
BIT 14	HALF BRIGHT

ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG. NO.	MAT'L SPEC.
DO NOT SCALE THIS DRAWING					
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.					
TOLERANCES .XX ± .02 .XXX ± .005					
VIDEO CHARACTER GENERATOR			HEWLETT PACKARD PERM. PRINT		
TITLE			PART NUMBER		
45000-67901, 45000-67907			C-45000-66506-26		
NEXT ASSEMBLY			SCALE		
FINISH			SHEET A OF 5		

ENGINEERING RESPONSIBILITY															SYM		REVISIONS		APPROVED		DATE		
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	A		AS ISSUED		MCM		10/10/80	
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31								
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47								
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63								



NOTE: ONE 0.1 µF CAPACITOR PER 4 IC'S. (C1, C2, U5, C9, C20)

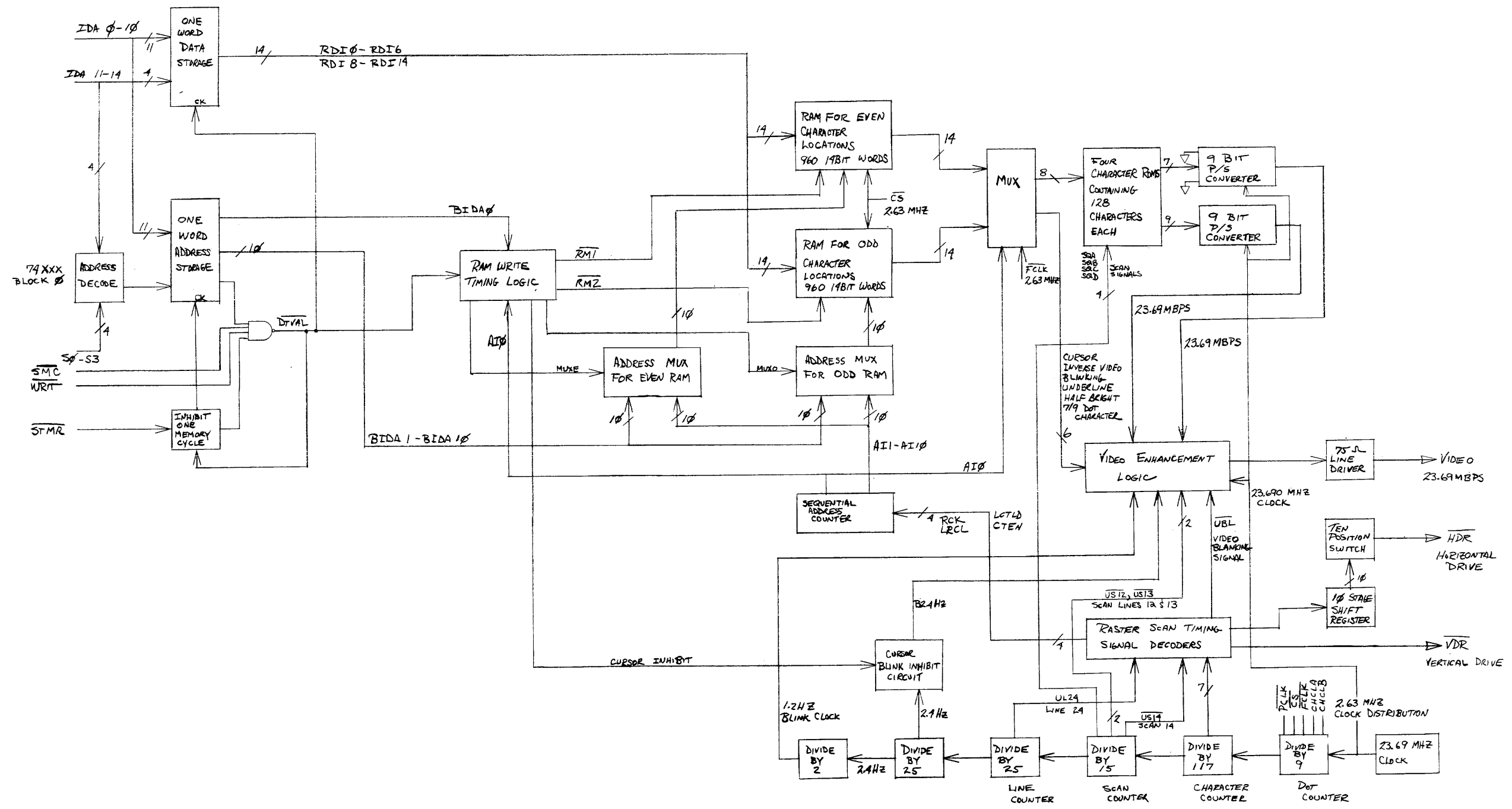
DO NOT SCALE THIS DRAWING
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
TOLERANCES .XX ± .02 .XXX ± .005

TITLE
TIMING SIGNAL GENERATOR
45000-67901, 45000-67907
NEXT ASSEMBLY

HEWLETT PACKARD PERM. PRINT
PART NUMBER
C-45000-66506-26
SCALE

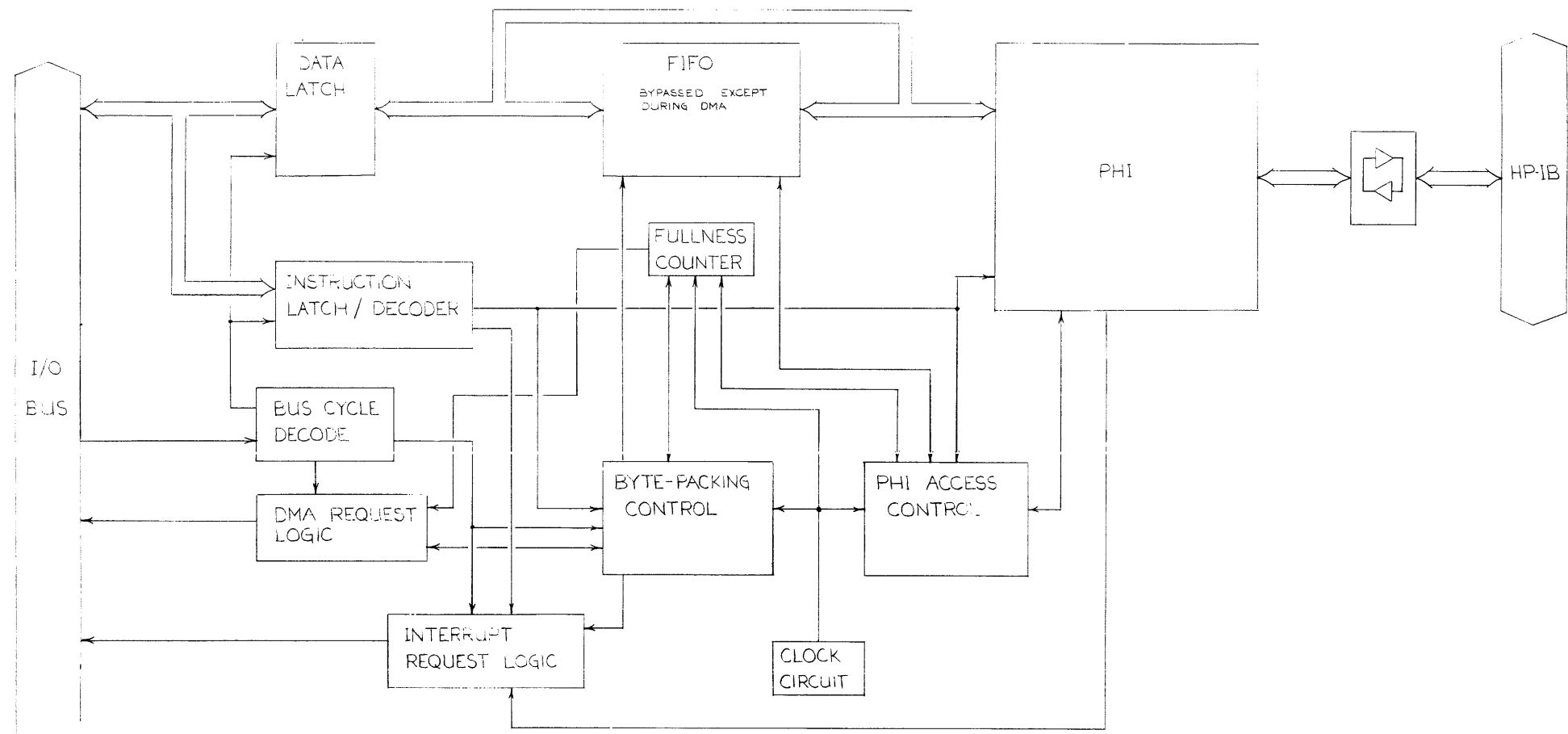
ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.

ENGINEERING RESPONSIBILITY																REVISED		APPROVED		DATE	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	BYM		MCM		1/10/68	
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	A		1/2 ISSUED			
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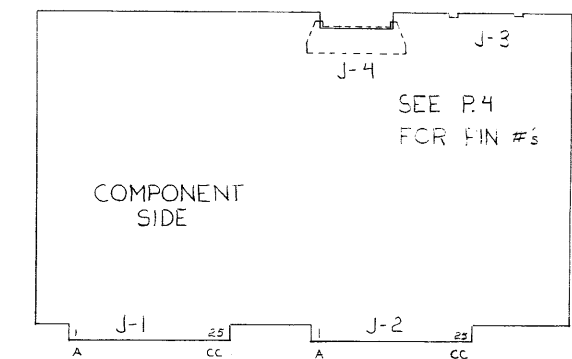


DO NOT SCALE THIS DRAWING		UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.		TOLERANCES .XX ± .02 .XXX ± .005		SEE CORP. STD. 606	
DIGITAL DISPLAY ELECTRONICS BLOCK D		HEWLETT PACKARD		45000-67901, 45000-67907		PART NUMBER	
45000-67901, 45000-67907		D-45000-66506-29		FINISH		SCALE	

ENGINEERING RESPONSIBILITY										REVISIONS										APPROVED		DATE	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	BYM		DATE					
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	A		19/10/78					
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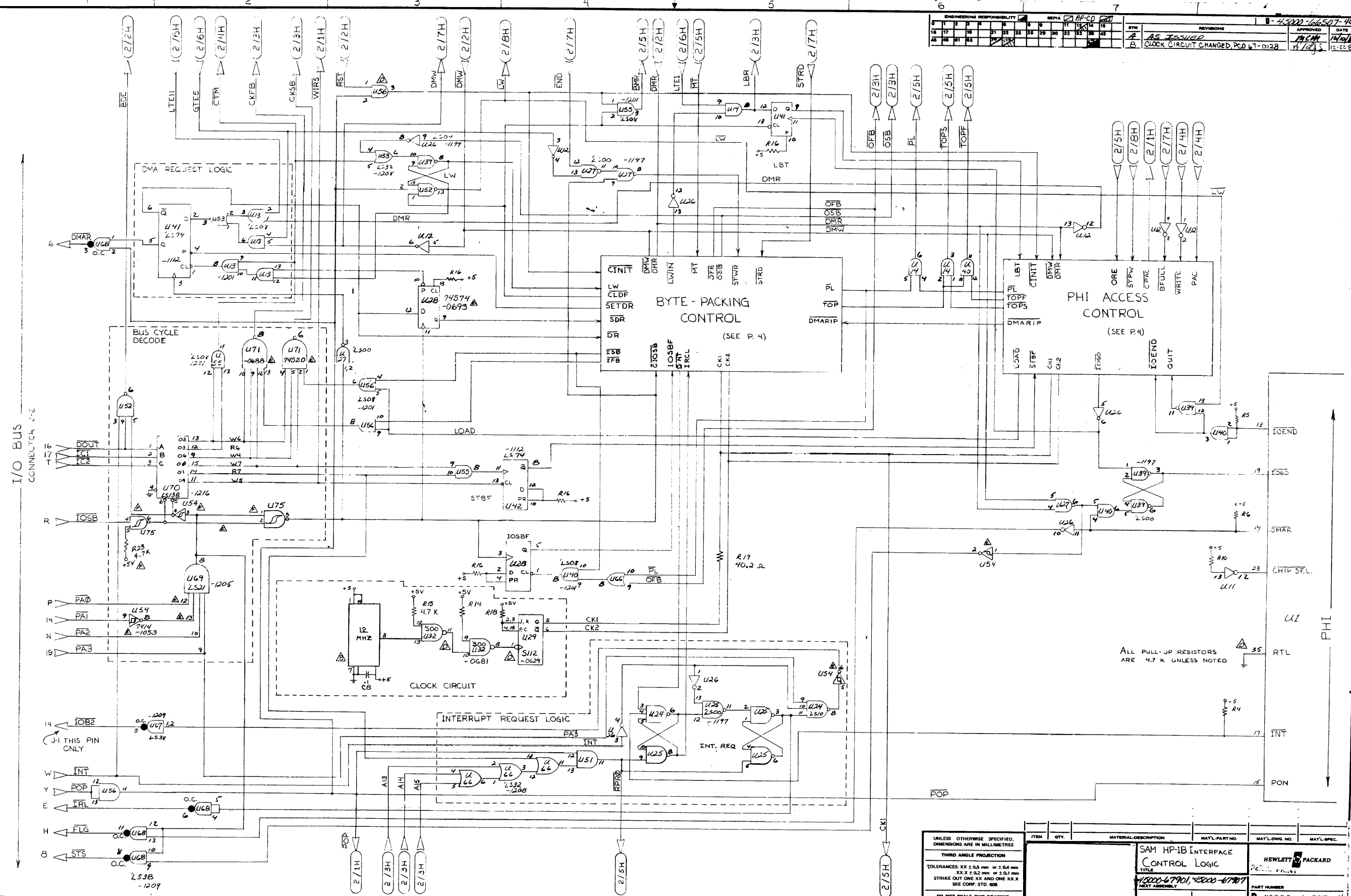


BLOCK DIAGRAM



PCB CONNECTOR LOCATIONS

DO NOT SCALE THIS DRAWING		ITEM		QTY.		MATERIAL DESCRIPTION		MAT'L PART NO.		MAT'L DWG. NO.		MAT'L SPEC.	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.						SAM HP-IB INTERFACE						HEWLETT PACKARD	
TOLERANCES .XX ± .02 .XXX ± .005						BLOCK DIAGRAM						PERM. PRINT	
SEE CORP. STD. 608						45000-6790, 45000-6791						PART NUMBER	
						NEXT ASSEMBLY						45000-66507-44	
						FINISH		SCALE				SHEET 1 OF 5	



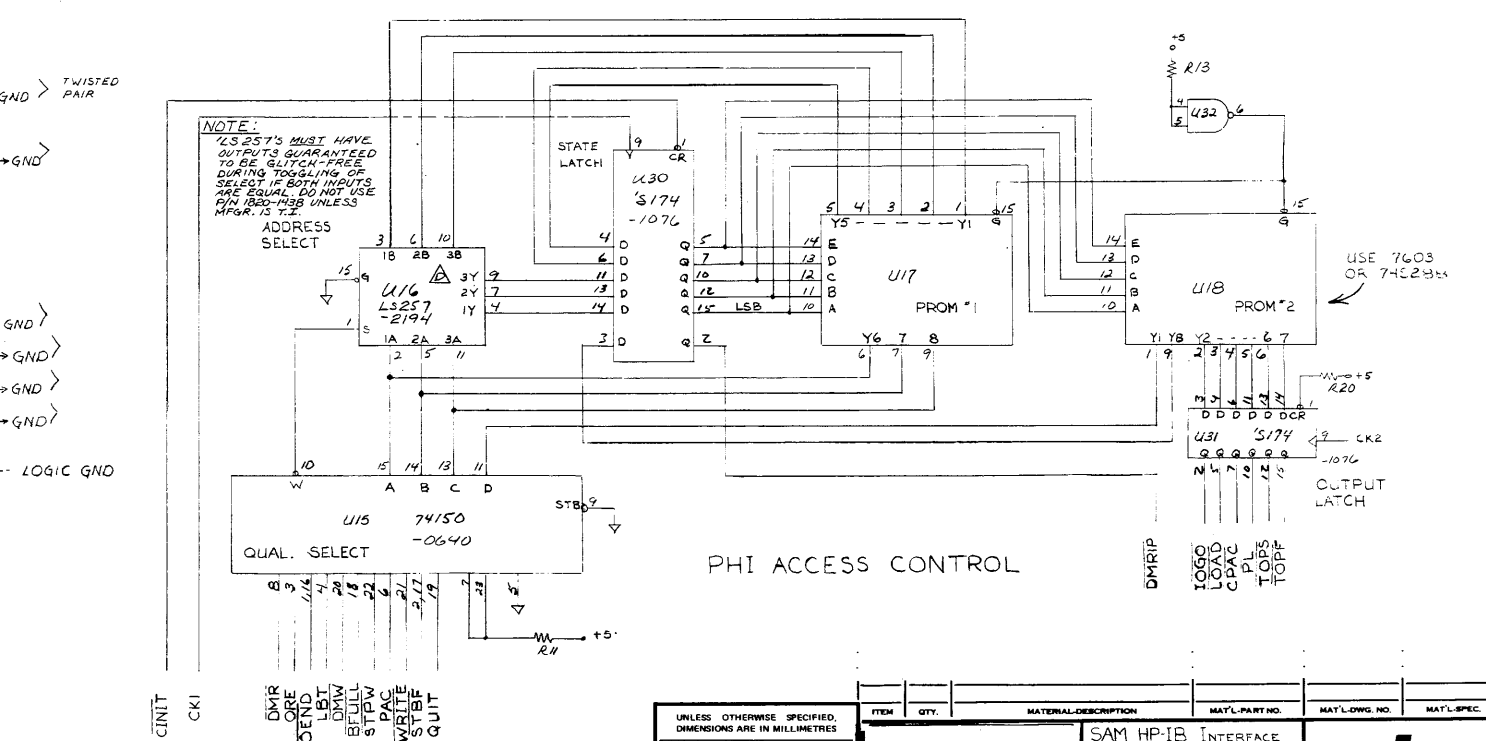
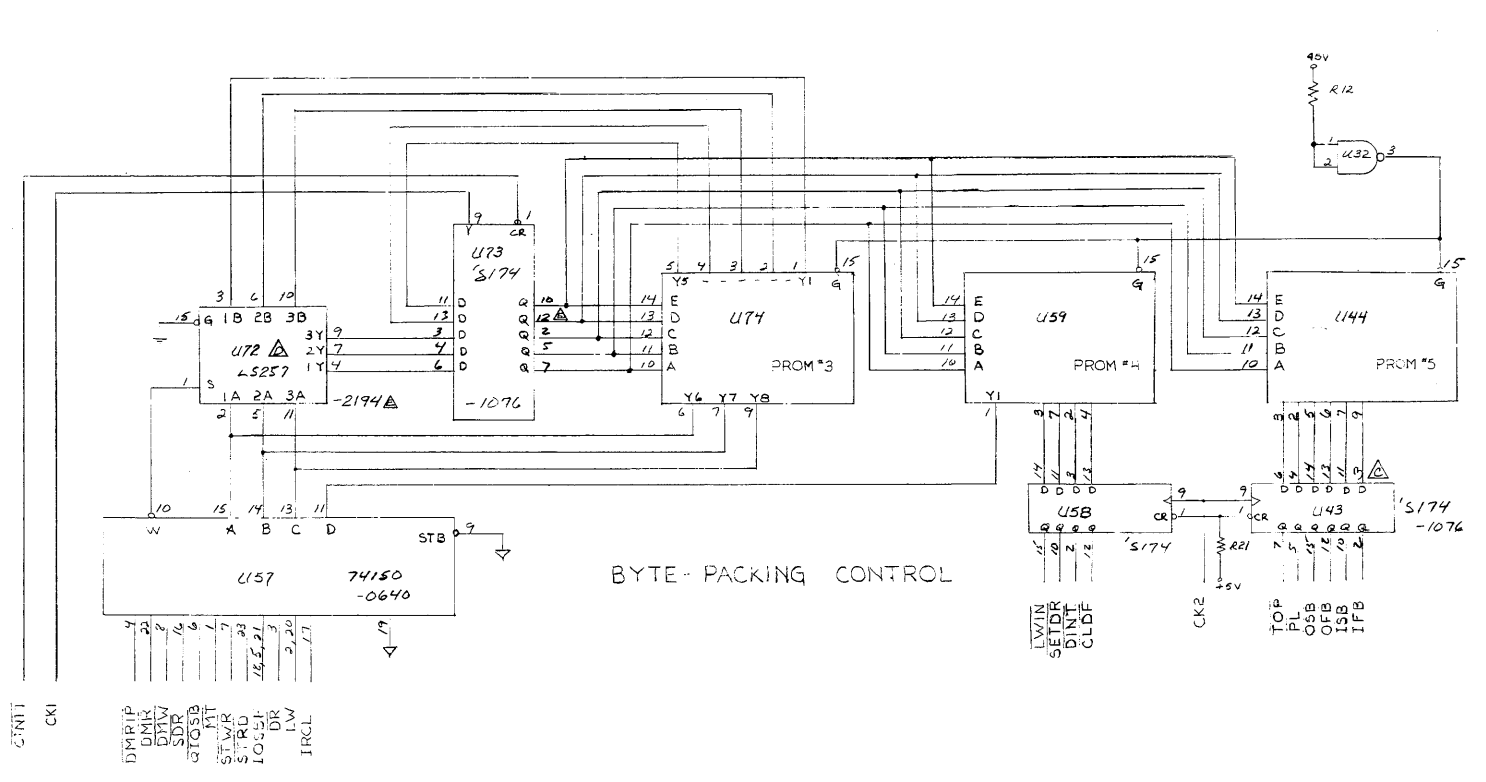
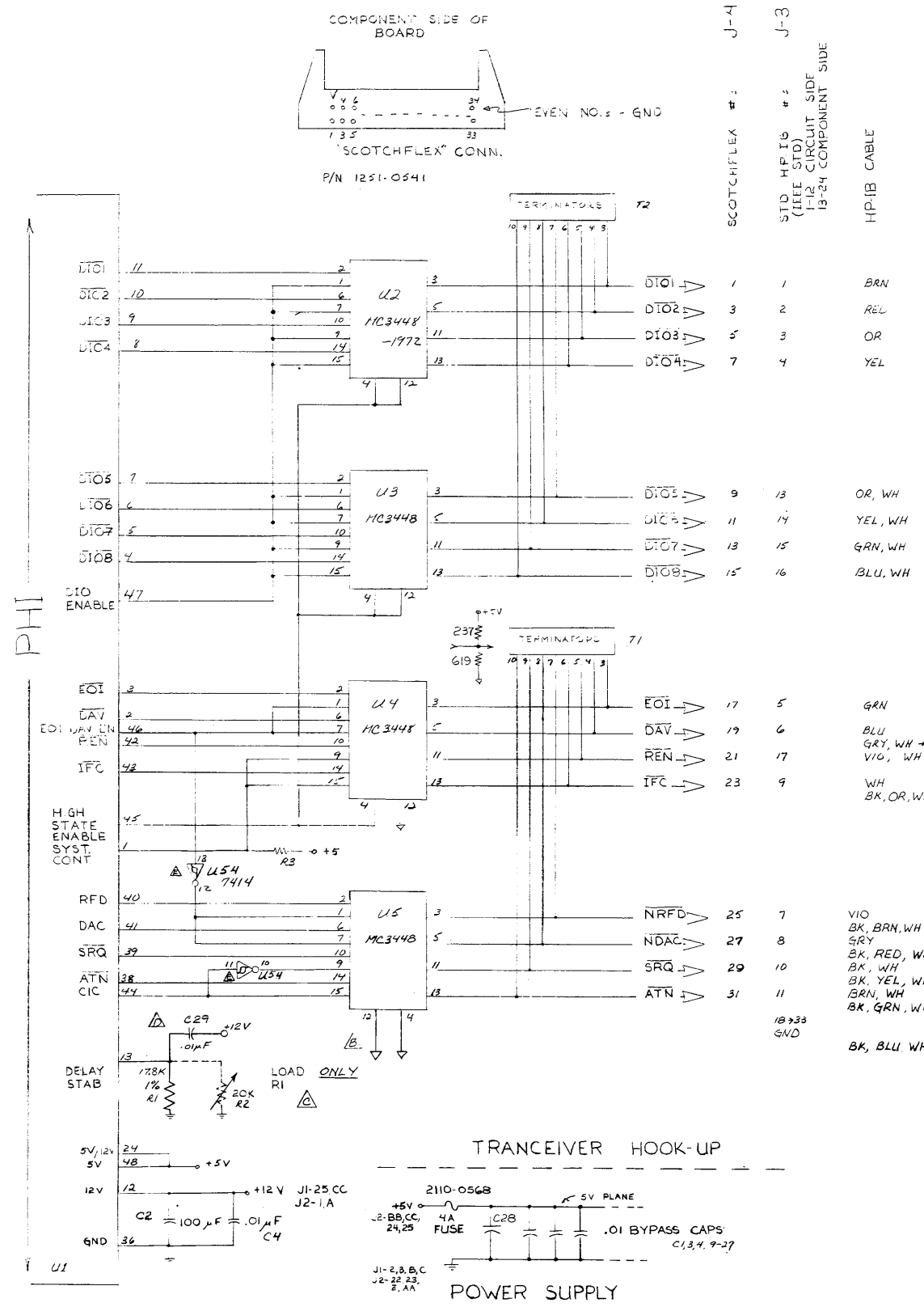
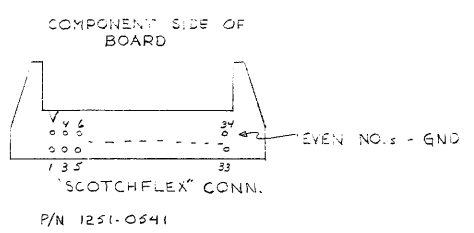
I/O BUS CONNECTOR

- 16 DOUT
- 17 FCI
- 18 FCB
- R IOB2
- P PA0
- 14 PA1
- N PA2
- 19 PA3
- 14 IOB2
- W INT
- Y POP
- E IRL
- H FLG
- 8 STS

ALL PULL-UP RESISTORS ARE 4.7 K UNLESS NOTED

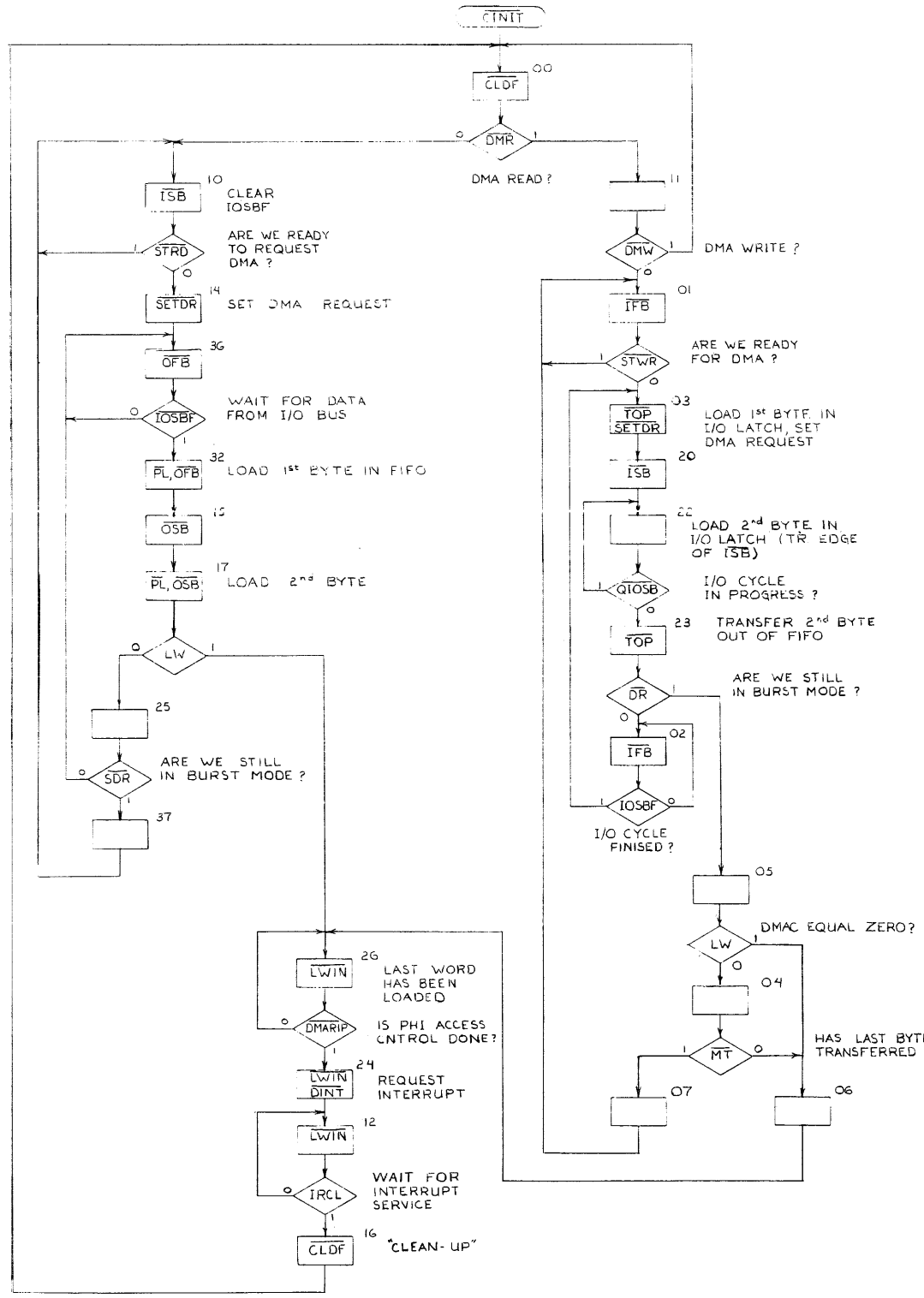
ITEM	QTY	MATERIAL DESCRIPTION	MATL. PART NO.	MATL. DWG. NO.	MATL. SPEC.
THIRD ANGLE PROJECTION					
TOLERANCES: XX ± 0.5 mm or ± 0.4 mm					
XXX ± 0.2 mm or ± 0.1 mm					
STRIKE OUT ONE XX AND ONE XXX					
SEE CORP. STD. 808					
DO NOT SCALE THIS DRAWING					
SAM HP-IB INTERFACE CONTROL LOGIC TITLE: SAM HP-IB INTERFACE CONTROL LOGIC PART NUMBER: 45000-67901, 45000-67907 SCALE: 1:1 FINISH: [Blank] SHEET 3 OF 3					

ENGINEERING RESPONSIBILITY															SEPA					APPROVED					DATE										
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	A					AS ISSUED					MCM					12/1/82				
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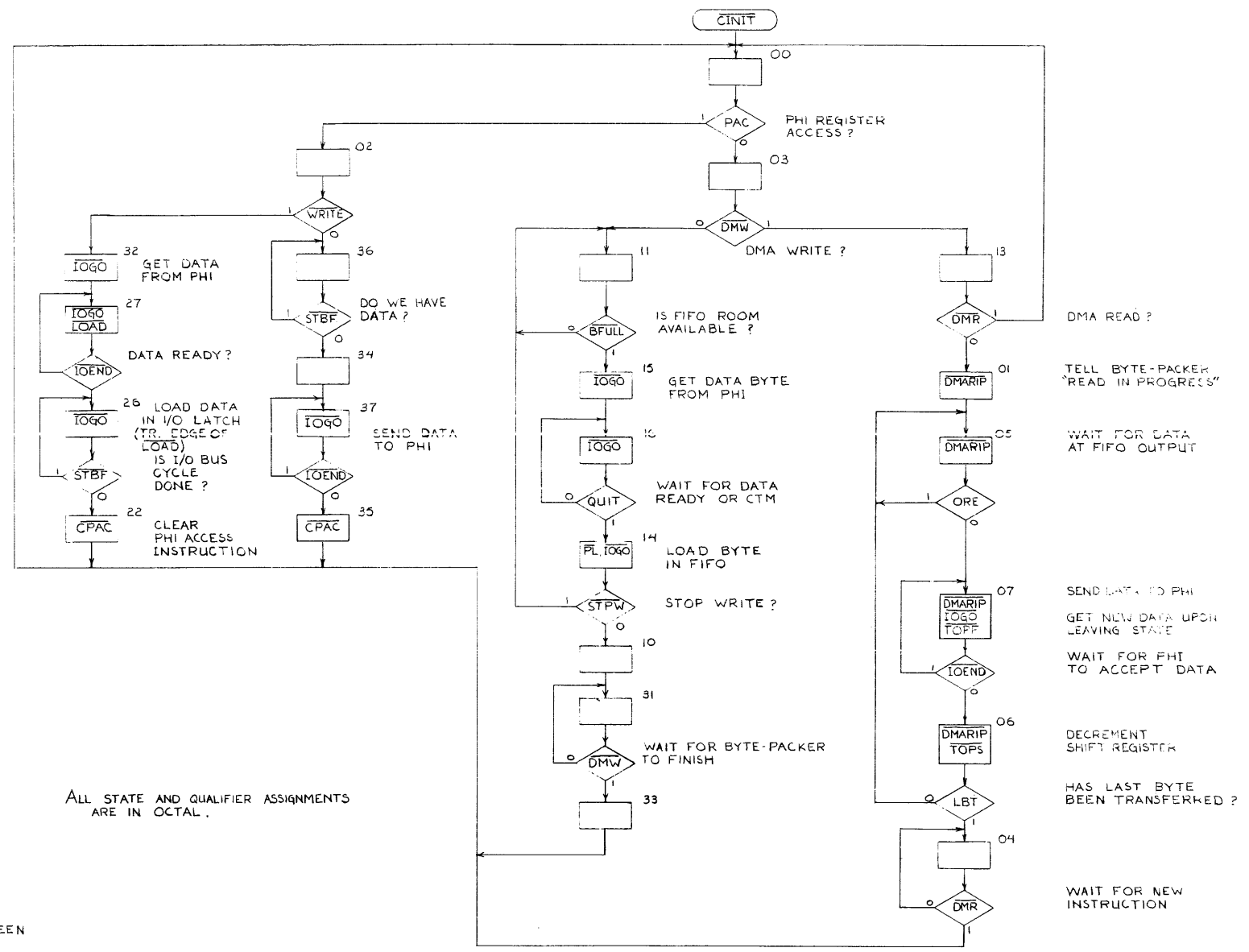


NOTE:
LS257'S MUST HAVE
OUTPUTS GUARANTEED
TO BE GLITCH-FREE
DURING TRANSITIONS OF
SELECT IF BOTH INPUTS
ARE EQUAL. DO NOT USE
P/N 180-113B UNLESS
MFG. IS T.I.

ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L WGT. NO.	MAT'L SPEC.
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES					
THIRD ANGLE PROJECTION					
TOLERANCES: XX ± 0.5 mm or ± 0.4 mm					
XX ± 0.2 mm or ± 0.1 mm					
STRIKE OUT ONE XX AND ONE XX'S, SEE CORP. STD. 608					
DO NOT SCALE THIS DRAWING					
SAM HP-IB INTERFACE CONTROL MACHINES, TITLE TRANCEIVER CIRCUIT			HEWLETT PACKARD PERM. PRINT		
45000-67901 45000-67901			PART NUMBER		
NEXT ASSEMBLY			D-45000-66507-46		
FINISH			SCALE		



BYTE-PACKING CONTROL



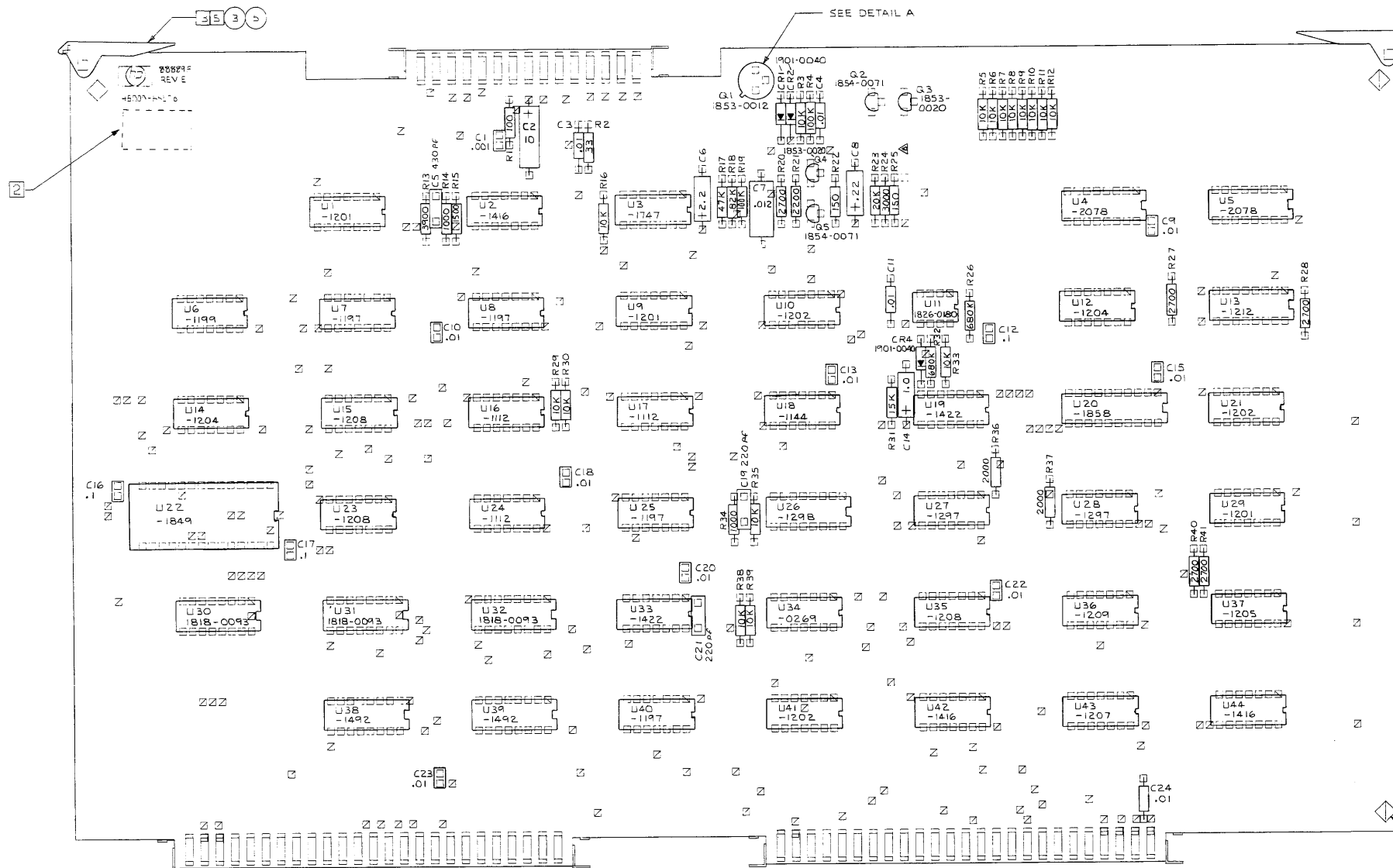
PHI ACCESS CONTROL

ALL STATE AND QUALIFIER ASSIGNMENTS ARE IN OCTAL.

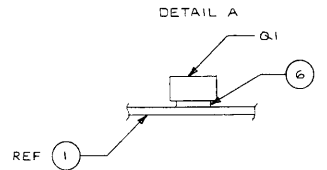
BYTE - PACKER		PHI ACCESS CNT'L	
QUALIFIER	ASSIGNMENTS	QUALIFIER	ASSIGNMENTS
NO-OP	14	NO-OP	03
MT	07	DMR	00
DMARIP	04	ORE	05
DMR	11	IOEND	07, 17
DMW	00	LBT	04
SDR	17	DMW	13
QIOSB	02	BFULL	15
STWR	01	STPW	11
STRD	10	PAC	02
IOSBF	12, 03	WRITE	12
DR	05	STBF	06, 16
LW	06, (13)	QUIT	14
IRCL	16		

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES	ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG. NO.	MAT'L SPEC.
THIRD ANGLE PROJECTION			SAM HP-IB INTERFACE			
TOLERANCES: XX ± 0.05 mm or ± 0.04 mm			ASM CHART			HEWLETT-PACKARD PERM. PRINT
XXX ± 0.02 mm or ± 0.1 mm			TITLE			
STRIKE OUT ONE XX AND ONE XX.X			45000-6790 / 45000-6790			
SEE CORP. STD. 808			NEXT ASSEMBLY			
DO NOT SCALE THIS DRAWING			PART NUMBER			
			-45000-6650T-46			
			FINISH			
			SCALE			

ENGINEERING RESPONSIBILITY										REVISIONS										DATE									
APPROVED										A										12/16/80									
BY										TH/AJS										5-28-81									
REVISIONS										B										CRS REMOVED, PER PC067-0066									

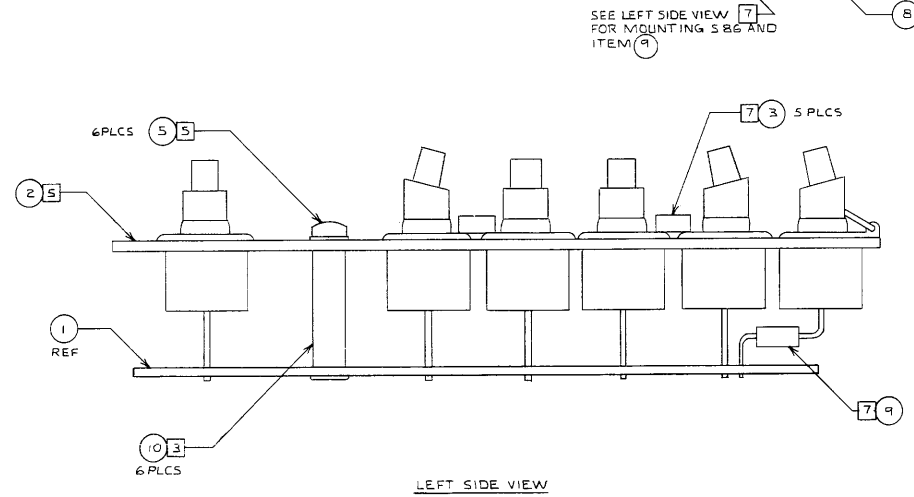
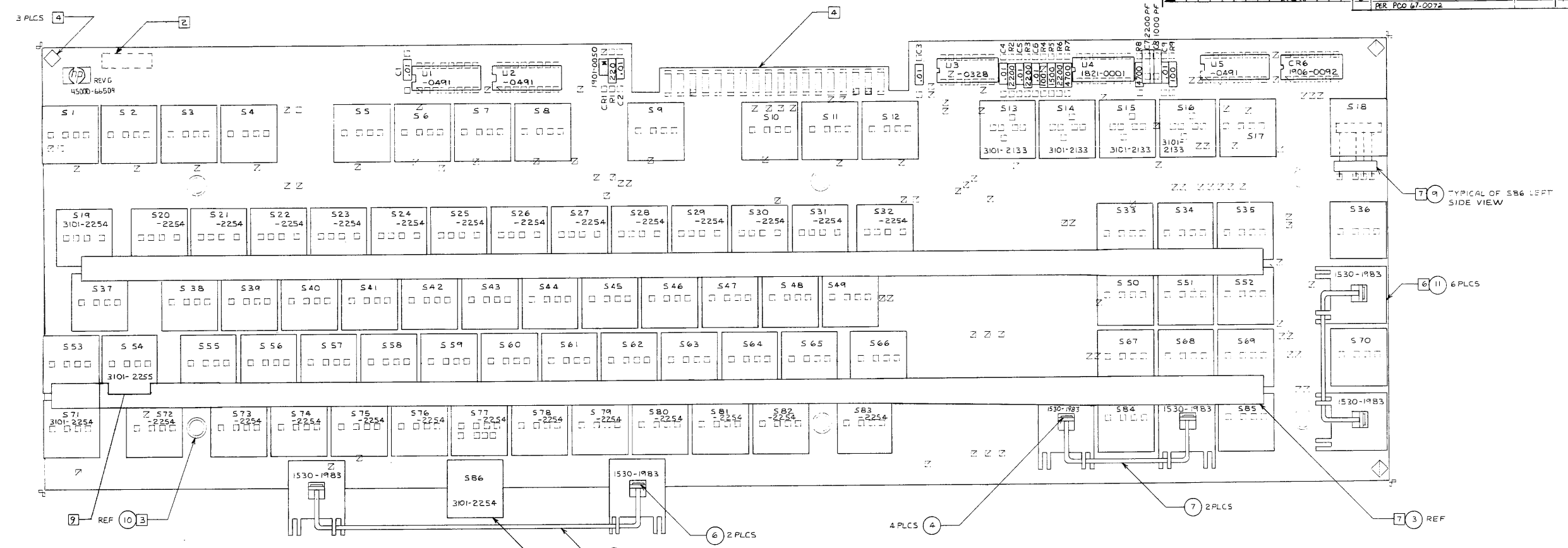


- NOTES:
- UNLESS OTHERWISE SPECIFIED
ALL RESISTANCE IN OHMS
ALL RESISTORS 1/4W 5%
ALL CAPACITANCE IN MICROFARADS.
ALL I.C.'S 1820
 - MARK DATE CODE 1823 AND MADE IN USA.
 - MASK AS INDICATED PRIOR TO LOADING.
 - USE SUPPORT FIXTURE DURING WAVE SOLDERED.
 - INSTALL ITEMS ③-⑤ IN FINAL PC ASSEMBLY.
 - INSTALL GLASS BEADS P/N 4030-0496 ON THE FOLLOWING COMPONENTS C1, 9, 10, 12, 13, 15-18, 20, 22, 23.



DO NOT SCALE THIS DRAWING		ITEM		QTY		MATERIAL DESCRIPTION		MATERIAL PART NO.		MATERIAL SPEC.	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES: .015 IN. DIA. & .005 IN. DIA.		1		1		PC BOARD ETCHED		45000-26508			
		1		1		KEYBOARD LOGIC PC ASSEMBLY		45000-66508		HEWLETT PACKARD	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		INSULATOR XSTR NYLON		1200-0185			
		1		1		PIN GROOVE		.062 X .25 L6		1480-0116	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		PC BOARD ETCHED		45000-26508			
		1		1		KEYBOARD LOGIC PC ASSEMBLY		45000-66508		HEWLETT PACKARD	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		INSULATOR XSTR NYLON		1200-0185			
		1		1		PIN GROOVE		.062 X .25 L6		1480-0116	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		PC BOARD ETCHED		45000-26508			
		1		1		KEYBOARD LOGIC PC ASSEMBLY		45000-66508		HEWLETT PACKARD	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		INSULATOR XSTR NYLON		1200-0185			
		1		1		PIN GROOVE		.062 X .25 L6		1480-0116	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		PC BOARD ETCHED		45000-26508			
		1		1		KEYBOARD LOGIC PC ASSEMBLY		45000-66508		HEWLETT PACKARD	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		INSULATOR XSTR NYLON		1200-0185			
		1		1		PIN GROOVE		.062 X .25 L6		1480-0116	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		PC BOARD ETCHED		45000-26508			
		1		1		KEYBOARD LOGIC PC ASSEMBLY		45000-66508		HEWLETT PACKARD	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		INSULATOR XSTR NYLON		1200-0185			
		1		1		PIN GROOVE		.062 X .25 L6		1480-0116	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
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		1		1		KEYBOARD LOGIC PC ASSEMBLY		45000-66508		HEWLETT PACKARD	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		INSULATOR XSTR NYLON		1200-0185			
		1		1		PIN GROOVE		.062 X .25 L6		1480-0116	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		PC BOARD ETCHED		45000-26508			
		1		1		KEYBOARD LOGIC PC ASSEMBLY		45000-66508		HEWLETT PACKARD	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		INSULATOR XSTR NYLON		1200-0185			
		1		1		PIN GROOVE		.062 X .25 L6		1480-0116	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		PC BOARD ETCHED		45000-26508			
		1		1		KEYBOARD LOGIC PC ASSEMBLY		45000-66508		HEWLETT PACKARD	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		INSULATOR XSTR NYLON		1200-0185			
		1		1		PIN GROOVE		.062 X .25 L6		1480-0116	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		PC BOARD ETCHED		45000-26508			
		1		1		KEYBOARD LOGIC PC ASSEMBLY		45000-66508		HEWLETT PACKARD	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		INSULATOR XSTR NYLON		1200-0185			
		1		1		PIN GROOVE		.062 X .25 L6		1480-0116	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		PC BOARD ETCHED		45000-26508			
		1		1		KEYBOARD LOGIC PC ASSEMBLY		45000-66508		HEWLETT PACKARD	
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		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		INSULATOR XSTR NYLON		1200-0185			
		1		1		PIN GROOVE		.062 X .25 L6		1480-0116	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		PC BOARD ETCHED		45000-26508			
		1		1		KEYBOARD LOGIC PC ASSEMBLY		45000-66508		HEWLETT PACKARD	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		INSULATOR XSTR NYLON		1200-0185			
		1		1		PIN GROOVE		.062 X .25 L6		1480-0116	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		PC BOARD ETCHED		45000-26508			
		1		1		KEYBOARD LOGIC PC ASSEMBLY		45000-66508		HEWLETT PACKARD	
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		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		INSULATOR XSTR NYLON		1200-0185			
		1		1		PIN GROOVE		.062 X .25 L6		1480-0116	
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		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		PC BOARD ETCHED		45000-26508			
		1		1		KEYBOARD LOGIC PC ASSEMBLY		45000-66508		HEWLETT PACKARD	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		INSULATOR XSTR NYLON		1200-0185			
		1		1		PIN GROOVE		.062 X .25 L6		1480-0116	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		PC BOARD ETCHED		45000-26508			
		1		1		KEYBOARD LOGIC PC ASSEMBLY		45000-66508		HEWLETT PACKARD	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		INSULATOR XSTR NYLON		1200-0185			
		1		1		PIN GROOVE		.062 X .25 L6		1480-0116	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0496			
		1		1		PC BOARD ETCHED		45000-26508			
		1		1		KEYBOARD LOGIC PC ASSEMBLY		45000-66508		HEWLETT PACKARD	
		1		1		EXTRACTOR PC. BD. GRAY		4040-0749			
		1		1		EXTRACTOR PC. BD. BLACK		4040-0748			
		2		2		INSULATOR BEAD GLASS		4030-0			

ENGINEERING RESPONSIBILITY		REVISIONS		APPROVED	DATE
1	2	3	4	5	6
BY: [Signature]		REVISED: [Signature]		[Signature]	[Date]
DATE: [Date]		BY: [Signature]		[Signature]	[Date]
BY: [Signature]		REVISED: [Signature]		[Signature]	[Date]
DATE: [Date]		BY: [Signature]		[Signature]	[Date]

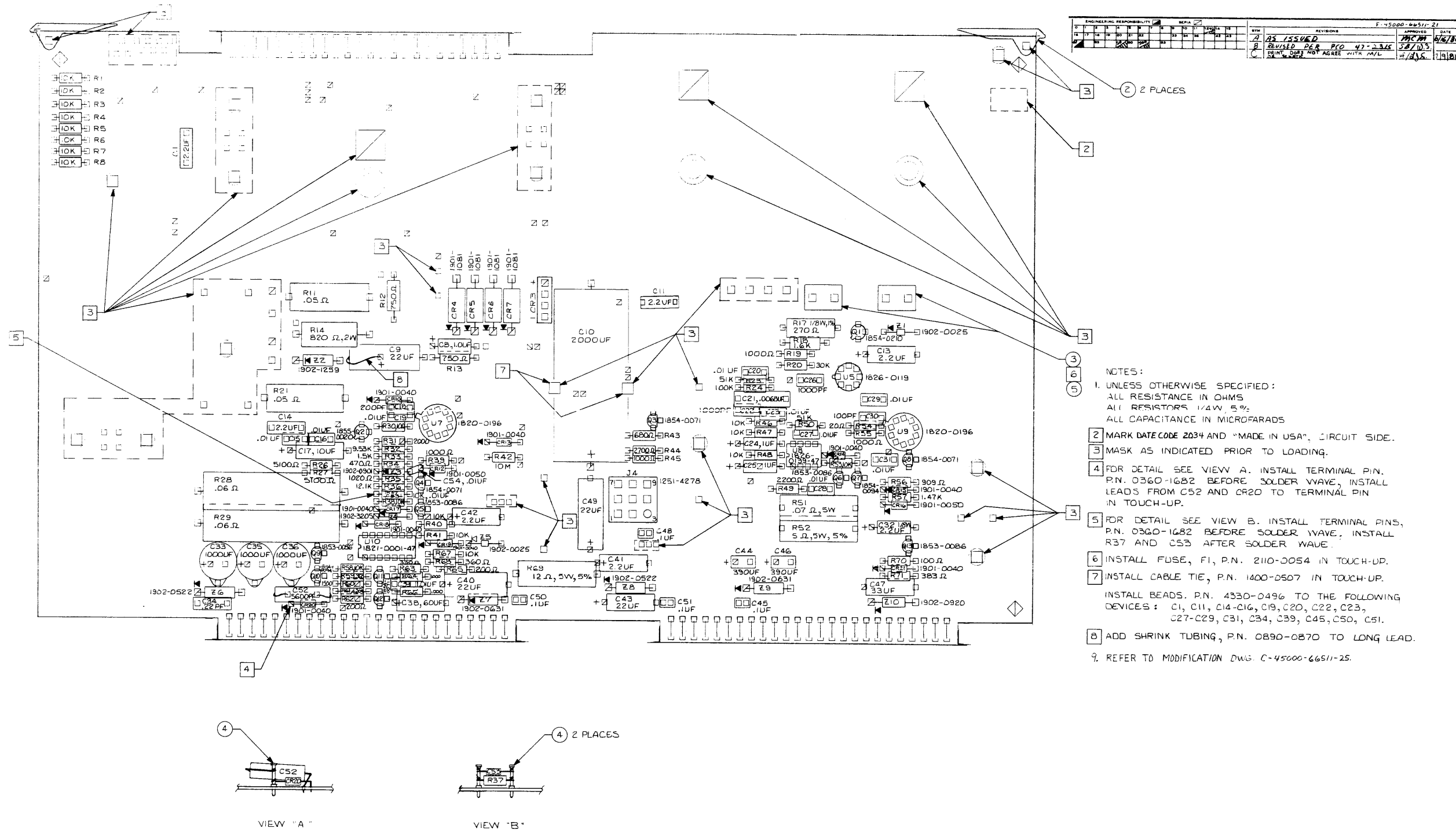


CAUTION:
DO NOT USE NORMAL WAVESOLDER PROCEDURE
USE RESINFORMING FLUX INSTEAD OF ACID FLUX
DO NOT ALLOW SOLDERED BOARD TO GO THROUGH
WASHER OR BE WASHED. LEAVE FLUX RESIDUE
ON BOARD.

- NOTES:**
- UNLESS OTHERWISE SPECIFIED
ALL RESISTANCE IN OHMS
ALL RESISTORS ARE 1/4W 5%
ALL CAPACITANCE IN MICROFARADS
ALL ICs ARE 1820
ALL SWITCHES ARE 3101-2253
MARK DATE CODE 22 AND MADE IN USA.
 - INSTALL ITEM (10) 6 PLACES IN FORMING.
 - MASK AS INDICATED PRIOR TO WAVE SOLDER.
 - INSTALL ITEM (2) USING ITEM (5) 6 PLACES.
 - INSTALL ITEM (11) 6 PLACES, INTO ITEM (2).
 - INSTALL ITEMS (3) (9) S18 AND S86 IN PC FINAL ASSY.
 - SCHEMATIC A- 45000-66509.
 - CUTOUT AS INDICATED AROUND THE SHIFT LOCK KEY

ITEM	QTY	DESCRIPTION	MATERIAL PART NO.	MATERIAL SPEC.
11	6	HOUSING END	1530-1983	
10	6	STANDOFF-RIVET ON	0380-0770	
9	2	SOCKET STRIP	1200-0799	
8	1	W-FORM SPACE BAR	1460-1519	
7	2	W-FORM 3 PL KEY	440-1617	
6	2	END FLUNGER	530-995	
5	6	SCREW 6-32 X.38 PAN HD	2360-0117	
4	4	PLUNGER STRAIGHT	3131-0411	
3	2	2.5FT TAB INDUSTRIAL	0460-1484	
2	1	SUBPANEL KEYBOARD	45000-00202	

DO NOT SCALE THIS DRAWING	ITEM	QTY	MATERIAL DESCRIPTION	MATERIAL PART NO.	MATERIAL SPEC.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE AS SHOWN			KEYBOARD P.C. ASSEMBLY	45000-66509	HEWLETT-PACKARD
			TITLE	45000-66509	
			DATE	04-60-1484	
			SCALE	2:1	
			FINISH	45000-66509-31	



ITEM	QTY	MATERIAL DESCRIPTION	MATL. PART NO.	MATL. DWG. NO.	MATL. SPEC.
8	1	2 IN SHRINK TUBING	0890-0870		
7	3/6	INSUL BEAD GLASS	4330-0496		
6	1	CABLE TIE	1400-0507		
5	1	FUSE 15A 1MB	2110-0054		
4	5	TERMINAL PIN	0360-1682		
3	2	FUSE CLIP	2110-0263		
2	2	EXTRA P.C. BRD - BLK	4040-0748		
1	1	P.C. BOARD ETCHED	45000-66511		

DO NOT SCALE THIS DRAWING

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES: .125 IN DIA .008
.125 IN DIA .008

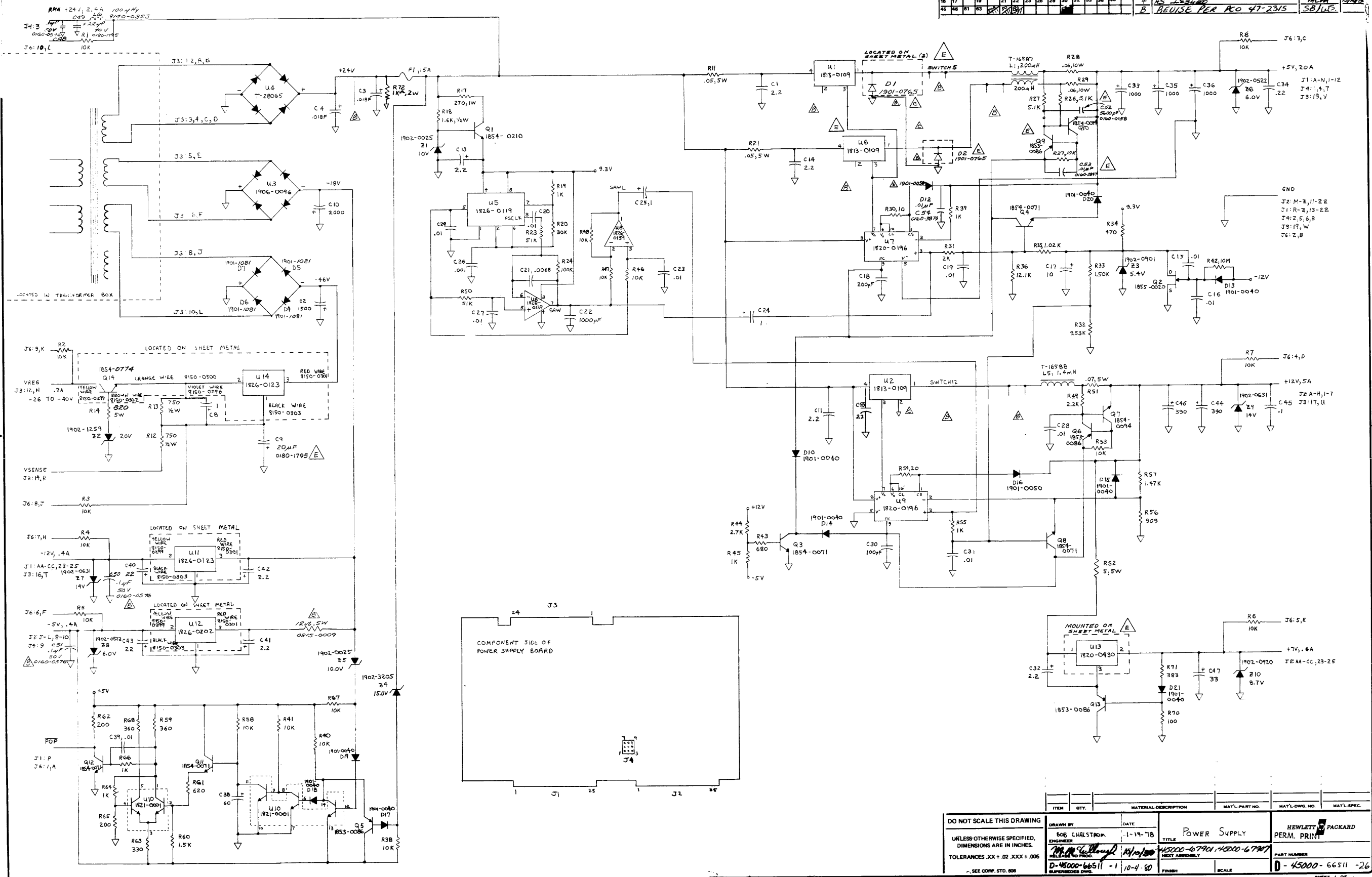
DESIGNED BY: R. K. WILSON
DRAWN BY: M. M. C. [Signature]
CHECKED BY: M. M. C. [Signature]
SUPERVISOR: [Signature]

DATE: 10-24-64
SCALE: 2/1

POWER SUPPLY ASSY
45000-66511-21
REV. 1
NEWLETT PACKARD

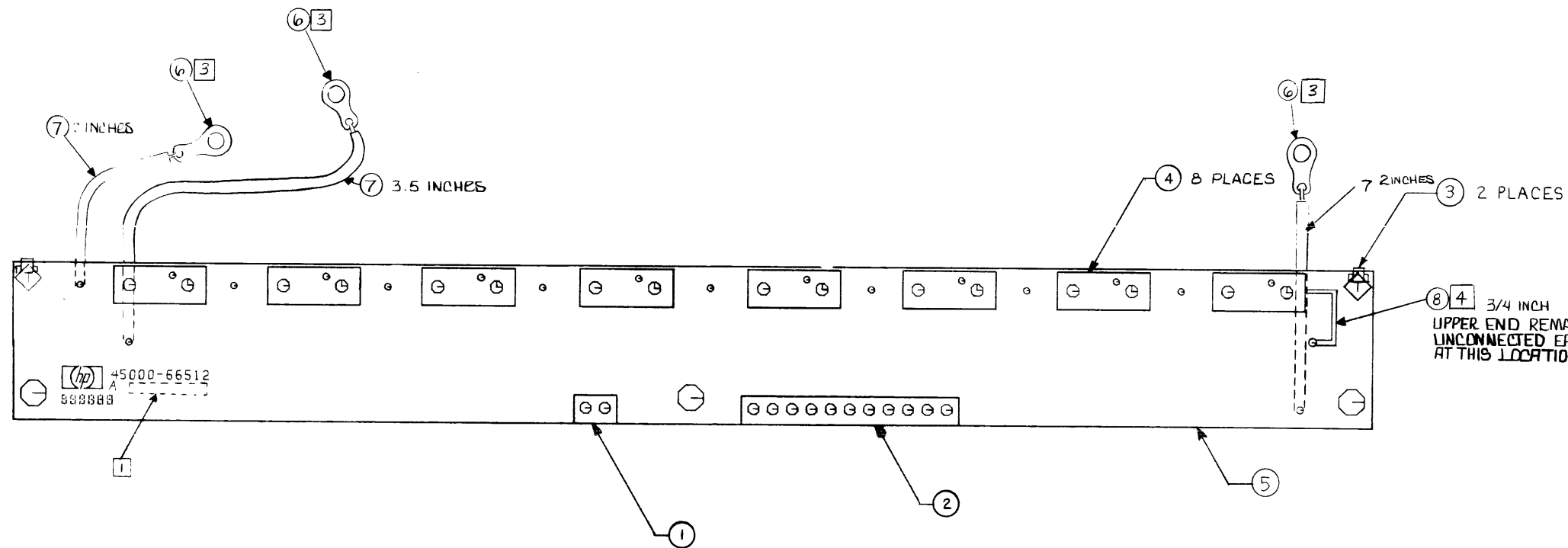
PERM. PR...
45000-66511-
PART NUMBER
F-45000-66511-21
SHEET 1 OF 1

ENGINEERING RESPONSIBILITY																REVISED		APPROVED		DATE			
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	BY: <u>LS JS-4000</u>		DATE: <u>10/4/60</u>		BY: <u>SB/UC</u>		DATE: <u>10/4/60</u>	
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	REVISIONS		APPROVED		DATE			
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	B. REVISE PER REQ 47-2315		SB/UC		10/4/60			



DO NOT SCALE THIS DRAWING		DRAWN BY: <u>BOB CHALSTROP</u>		DATE: <u>1-19-76</u>		TITLE: <u>POWER SUPPLY</u>		HEWLETT PACKARD	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.		ENGINEER		DATE: <u>10-4-60</u>		FINISH: <u>10-4-60</u>		PERM. PRINT	
TOLERANCES .XX ± .02 .XXX ± .005		PART NUMBER: <u>D-45000-66511-1</u>		NEXT ASSEMBLY: <u>10-4-60</u>		SCALE: <u>1</u>		PART NUMBER: <u>D-45000-66511-26</u>	
SEE CORP. STD. 008		FINISH: <u>10-4-60</u>		SCALE: <u>1</u>		SHEET 1 OF 1			

ENGINEERING RESPONSIBILITY																DATE	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	BY	DATE
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AS ISSUED	12-16-80
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	ADD TIEBAR 7, 8 PER REV 001	12-2-81

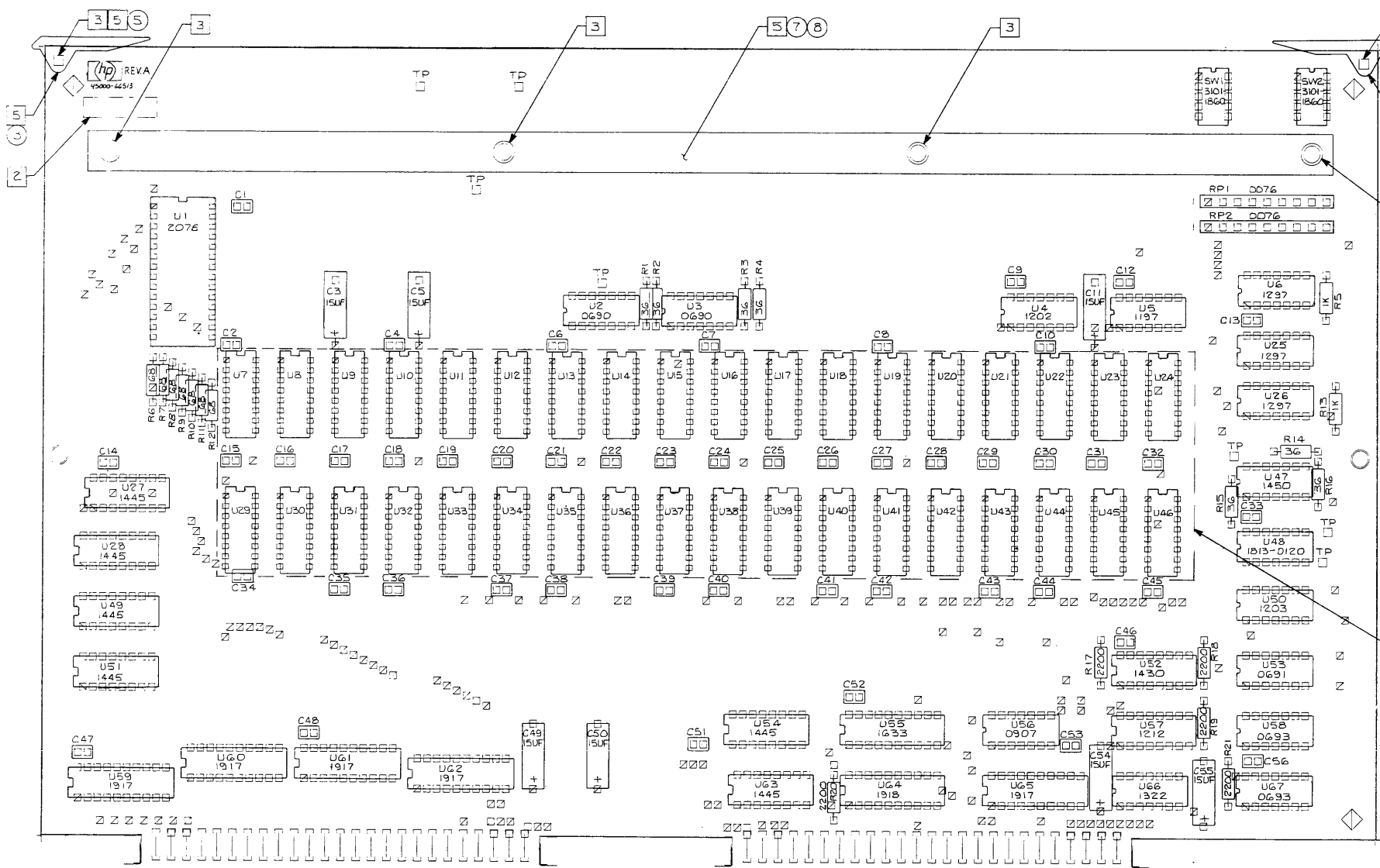


- NOTES:
- 1 MARK DATE CODE "2123" AND MADE IN U.S.A.
 - 2 INSTALL ITEMS 1 THRU 8 IN P.C. FINAL ASSY.
 - 3 CUT WIRE TO INDICATED LENGTHS AND SOLDER TO INDICATED LOCATIONS. ADD SOLDER LUGS (0360-02168) TO FREE ENDS.
 - 4 BEND AND SOLDER WIRE (6151-0013) AS INDICATED. APPLY EPOXY TO HOLD THE WIRE IN PLACE.

8	0.06 IN WIRE 22 AWG	0151-0013
7	0.13 IN WIRE 18 AWG CRN	8150-2011
6	3 TERMINAL-SOLDER LUG	0360-02168
5	1 PCB-SOFTKEY	45000-285 2
4	8 S-PL SWITCH ASSY	5060-8438
3	2 CABLE TIE	1400-0249
2	1 CONNECTOR 11M	1251-5121
1	1 CONNECTOR 2M	1251-4215

DO NOT SCALE THIS DRAWING
 UNLESS OTHERWISE SPECIFIED,
 DIMENSIONS ARE IN INCHES.
 TOLERANCES XX ± .02 XXX ± .005
 SEE CORP. STD. 888

SOFT KEY BD		HEWLETT PACKARD
TITLE ASSY DWG		45000-66512
45000-679051		PART NUMBER D-45000-66512
SCALE FULL		1 OF 1



REVISIONS									
NO.	DATE	BY	REVISIONS	APPROVED	DATE				
1									
2									
3									
4									
5									
6									
7									
8									

- NOTES:
- UNLESS OTHERWISE SPECIFIED:
ALL RESISTANCE IN OHMS
ALL RESISTORS 1/4W, 5%
ALL RESISTOR NETWORKS ARE 1810-
ALL CAPACITANCE IN MICROFARADS
ALL CAPACITORS .1UF
ALL I.C.'S ARE 1820-
 - MARK DATE CODE "1933" AND "MADE IN USA"
 - MASK AS INDICATED PRIOR TO LOADING.
 - INSTALL GLASS BEADS, ITEM (6) TO ALL 0.1UF CAPACITORS.
 - INSTALL ITEMS (3) THRU (5), (7) AND (8) IN P.C. FINAL ASS'Y.

ITEM	QTY	MATERIAL DESCRIPTION	MATL. PART NO.	MATL. DRWG. NO.	MATL. SPEC.
8	4	SCR TAP 4.40 X .31	0624-0077		
7	1	BRACE - PC BOARD	5040-6058		
6	98	INSUL BEAD GLASS	4330-0496		
5	2	PIN GRV .062 X .25	1480-0116		
4	1	EXTR PC BRD FIELD	4040-0750		
3	1	EXTR PC BRD BLK	4040-0748		
2	36	I.C. MK4116P.4	5180-0601		
1	1	P.C. BOARD, ETCHED			

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES .015 & .010

64K BYTE ASSEMBLY

TITLE: 45003A

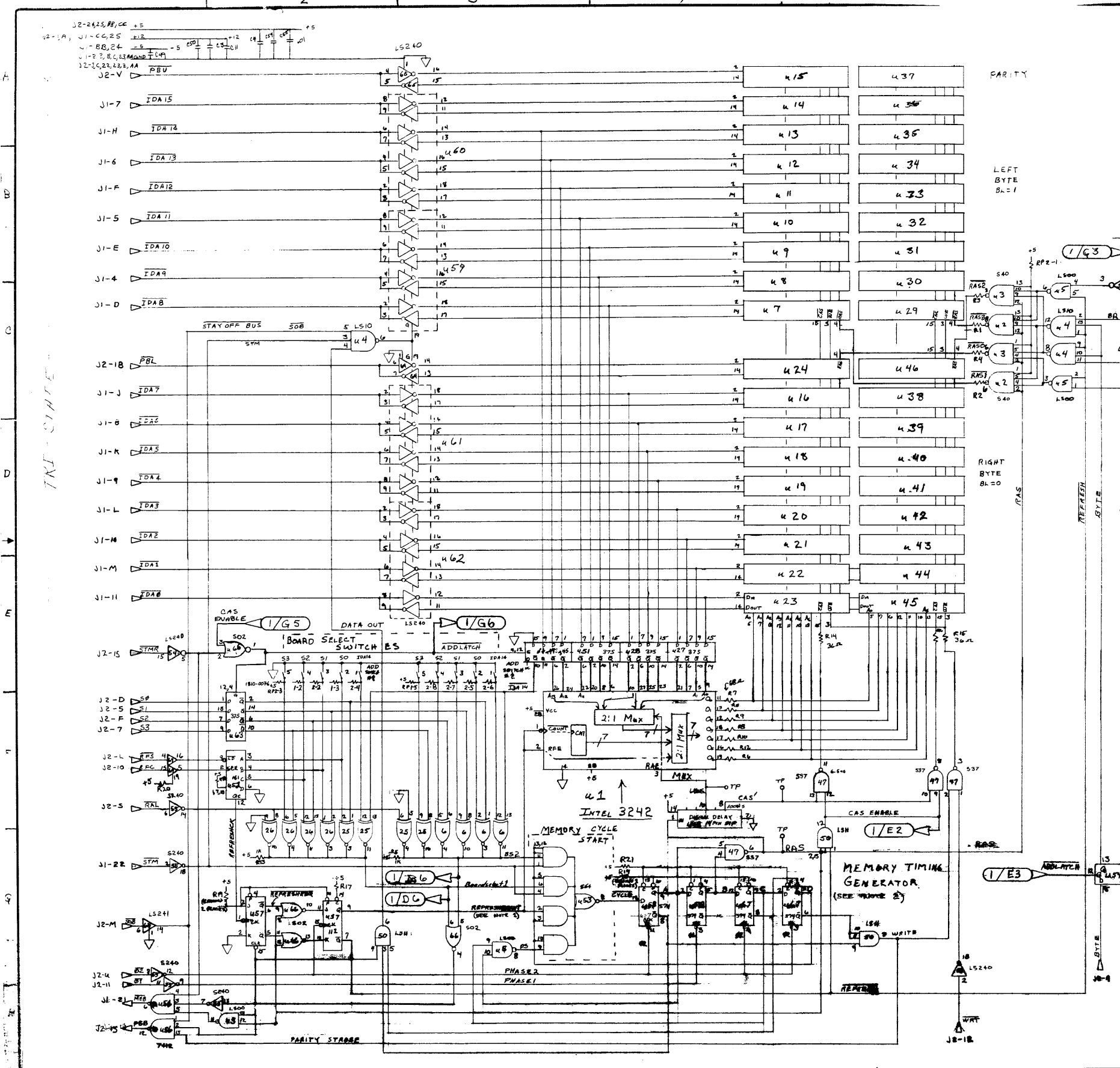
PERM. PRINT. HEWLETT-PACKARD

45000-66513

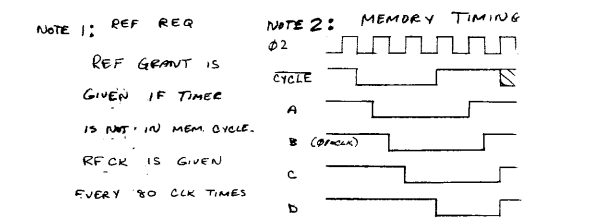
SCALE: 2/1

45000-66513

ENGINEERING RESPONSIBILITY										REVISIONS										APPROVED		DATE	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	MCA		7/2/82	
BY										ISSUED										MCA		7/2/82	
BY										ISSUED										MCA		7/2/82	

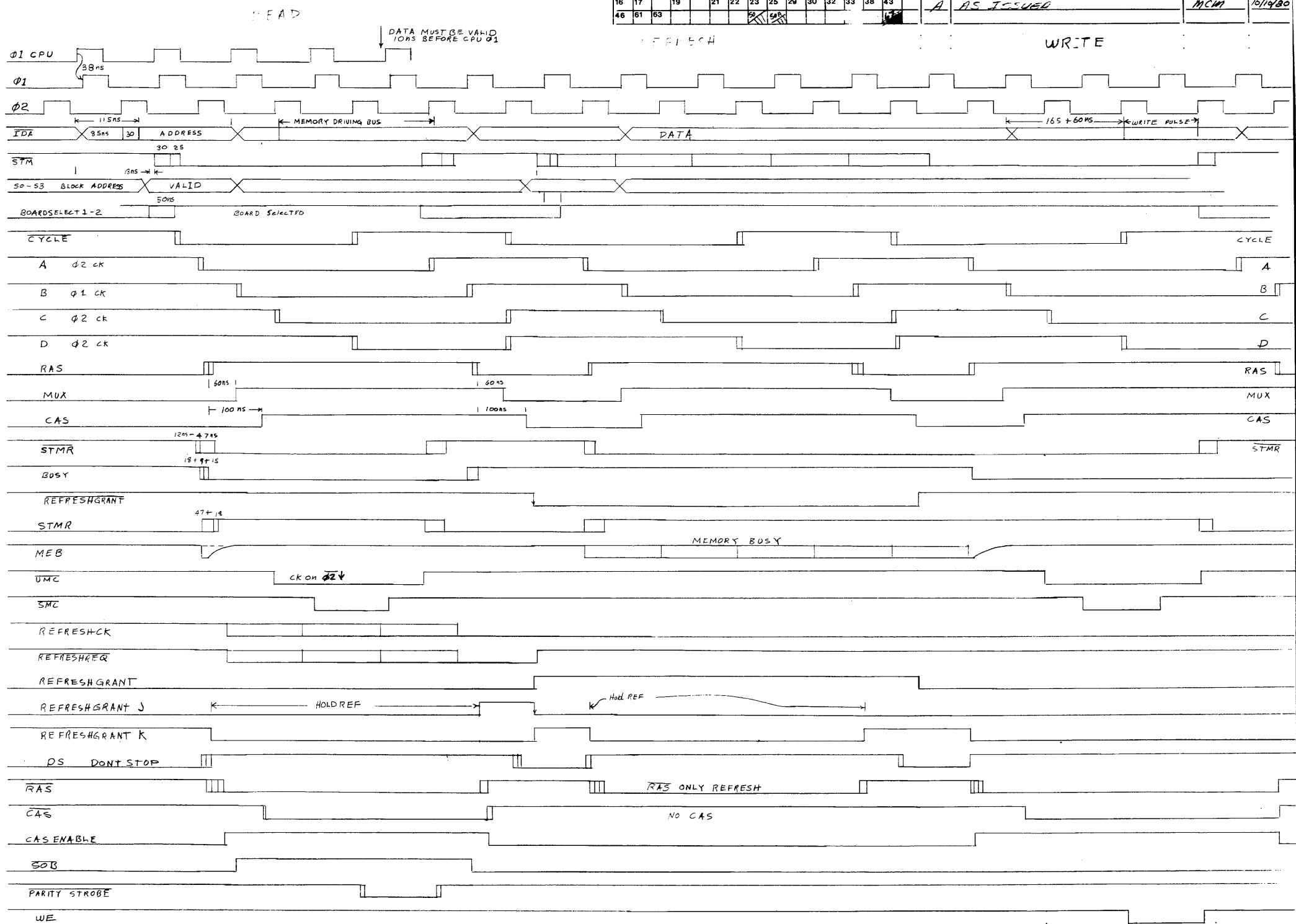


J.C. NUMBER	7400	1920	OTHER
1		2076	INTEL 3242
2	S40	0690	
3	S40	0690	
4	L510	1202	
5	L500	1197	
6	L5266	1297	
7-24		5180-0601	(16Kx1 RAM, STRESSED 1818-1467 OR 1818-0360)
25	L5266	1297	
26	L5266	1297	
27	L5375	1445	
28	L5375	1445	
29-46		5180-0601	(16Kx1 RAM, STRESSED 1818-1467 OR 1818-0360)
47	S37	1450	DIGITAL DELAY
48			
49	L5375	1445	
50	L511	1203	
51	L5375	1445	
52	L5161	1430	
53	S64	0691	
54	L5375	1445	
55	S240	1633	
56	12	0907	
57	L5112	1212	
58	S74	0693	
59	L5240	1517	
60	L5240	1517	
61	L5240	1517	
62	L5240	1517	
63	L5375	1445	
64	L5241	1517	
65	L5240	1517	
66	L502	1144	
67	S74	0693	



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES	ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-ONG. NO.	MAT'L-SPEC.
THIRD ANGLE PROJECTION						
TOLERANCES: XX ± 0.8 mm or ± 0.04 mm XXX ± 0.2 mm or ± 0.1 mm STRAKE OUT ONE XX AND ONE XXX SEE COMP. STD. 898			64K-byte Memory Bd.			HEWLETT PACKARD PERM. PRINT
DO NOT SCALE THIS DRAWING			45005A			SCALE
						D-45000-66513-6

ENGINEERING RESPONSIBILITY															SEPIA		C-15000-66513-9						
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	REVISIONS		APPROVED	DATE				
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	AS ISSUED		MCM	10/19/80
36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55				



UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN MILLIMETRES

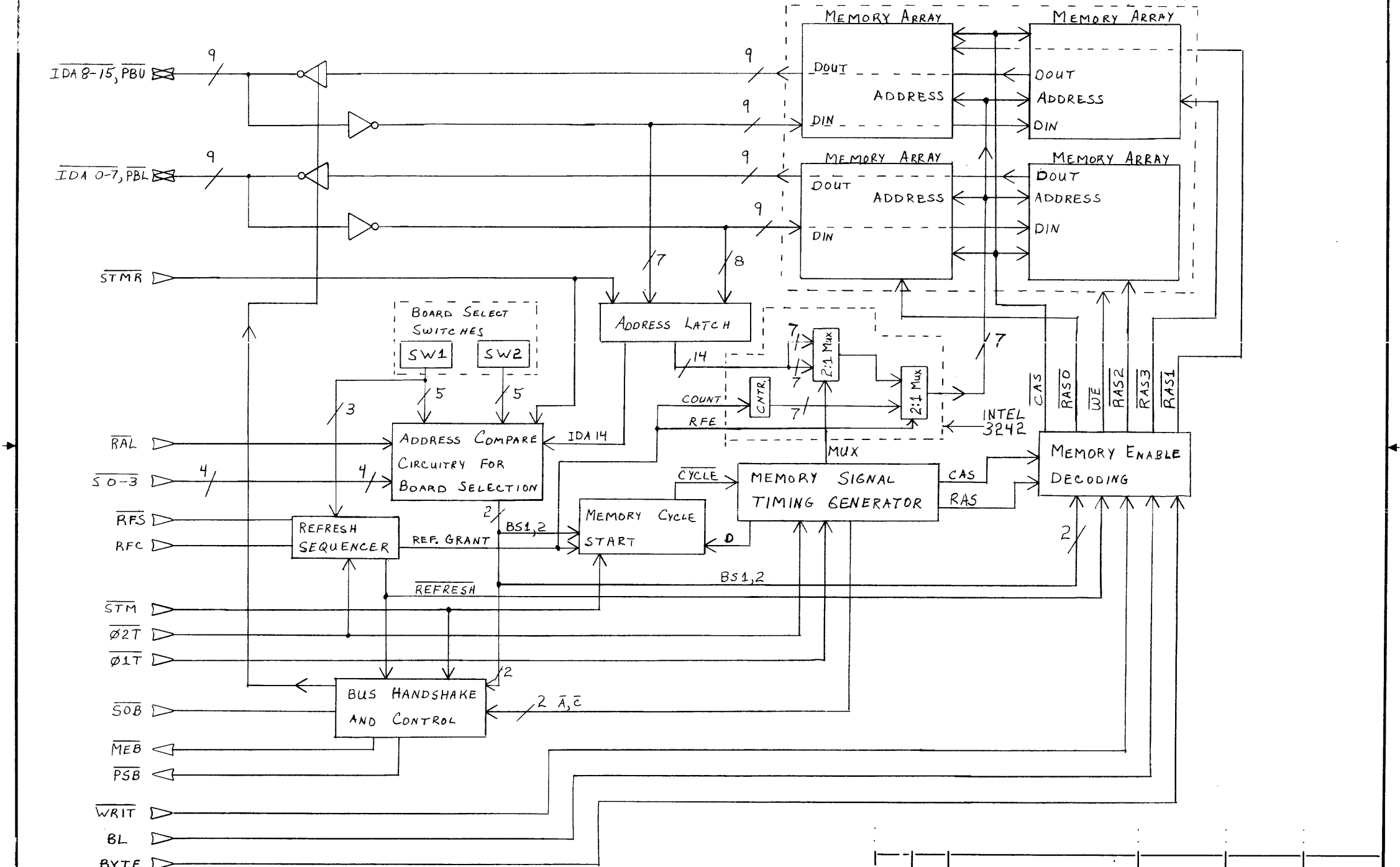
THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
XX.X ± 0.2 mm or ± 0.1 mm
STRIKE OUT ONE XX AND ONE XX.X
SEE CORP. STD. 608

DO NOT SCALE THIS DRAWING

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
		64K-Byte Memory Bd.			
		Timing Diagram			
		15003A			
		NEXT ASSEMBLY			
		FINISH			
		SCALE			
			HEWLETT-PACKARD		
			PERM. PRINT		
			PART NUMBER		
			C-15000-66513-9		

EACH MEMORY ARRAY CONSISTS OF 9 16K X 1 DYNAMIC RAMS



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES		ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
THIRD ANGLE PROJECTION				SAM 32K MEMORY			
TOLERANCES: XX ± 0.5 mm or ± 0.4 mm XX.X ± 0.2 mm or ± 0.1 mm STRIKE OUT ONE XX AND ONE XX. SEE CORP. STD. 608				BOARD BLOCK DIAGRAM			HEWLETT PACKARD PERM. PRINT
DO NOT SCALE THIS DRAWING				15003A NEXT ASSEMBLY			PART NUMBER C-15000-66513-9
				FINISH	SCALE		

SAM BLOCK SWITCH MAP -

Each cell in the following map represents the state of the block address lines, S0-S3, as a function of:

- 1) the memory cycle as referenced to the first instruction fetch defined as cycle 1.
- 2) IDA 15 of the address for the present memory cycle
- 3) the instruction which was fetched and latched during memory cycle 1
- 4) Bus Grant (BG) which, when true, implies DMA operations.
- 5) INT which is latched with each instruction latch and designates an IOC interrupt bus poll. The signal INT forces the instruction decode to think the base page bit (IDA10) was set-up for a base page instruction execution.

The meaning of the following blocks is: R34 ⇒ Block Address lines correspond to contents of R34
example

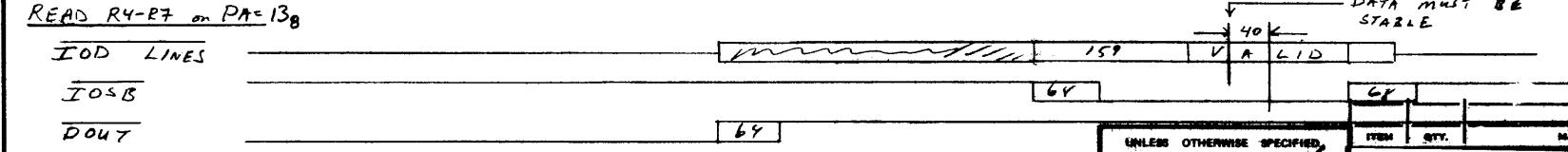
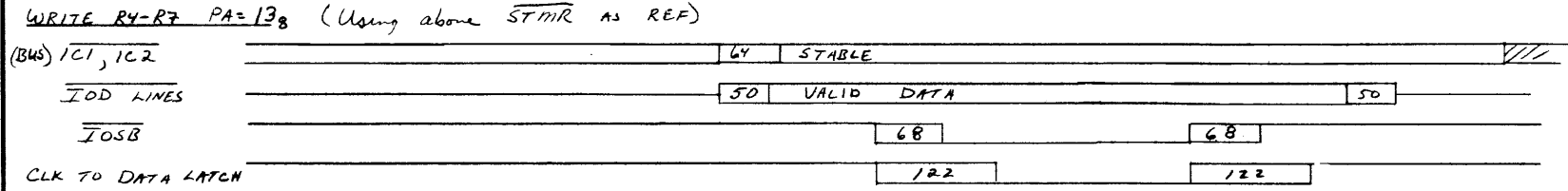
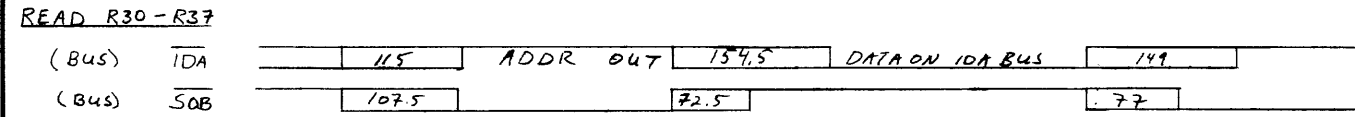
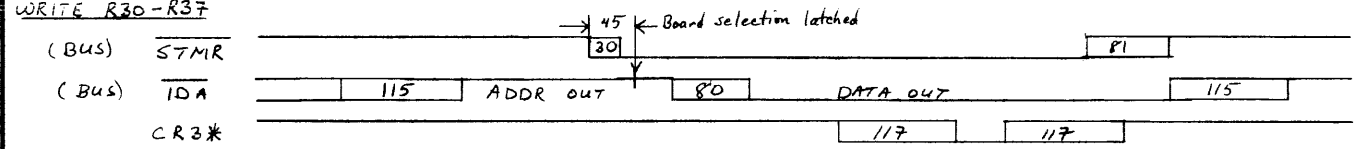
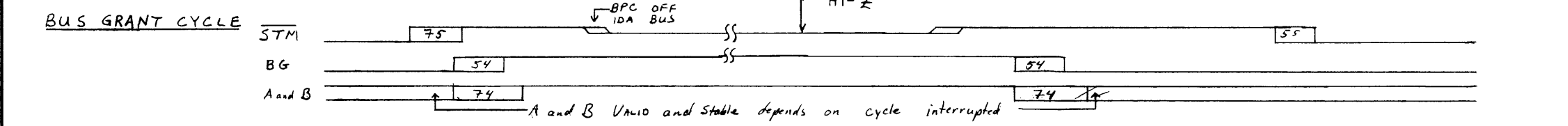
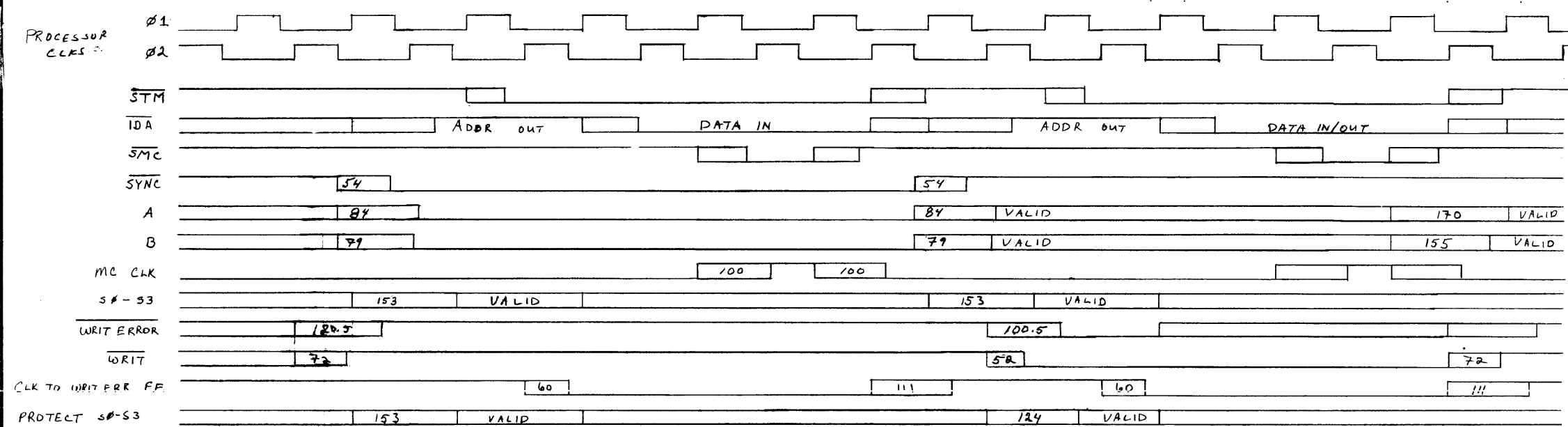
INSTRUCTION FETCH CYCLE	ADDRESS BIT IDA 15	MEMORY CYCLE	Interrupt (INT)	JMP	JMP I _{BP}	JMP I _{CP}	LD* BP	LD* CP	ST* BP	ST* CP	LD* I _{BP}	LD* I _{CP}	ST* I _{BP}	ST* I _{CP}	ISZ BP	ISZ CP	ISZ I _{BP}	ISZ I _{CP}	JSM	JSM I _{BP}	JSM I _{CP}	SKIP	RET	PL/WO	EMC	DMA
1	1	1		R34	R34	R34	R34	R34	R34	R34	R34	R34	R34	R34	R34	R34	R34	R34	R34	R34	R34	R34	R34	R34	R32	
0	1	1		R33	R33	R33	R33	R33	R33	R33	R33	R33	R33	R33	R33	R33	R33	R33	R33	R33	R33	R33	R33	R33	R37	
1	2	2			R32	R34	R32	R34	R32	R34	R32	R34	R32	R34	R32	R34	R32	R34	R32	R34			R32	R32	R32	
0	2	2		*	R33	R33	R33	R33	R33	R33	R33	R33	R33	R33	R33	R33	R33	R33	R35	R33	R33		R35	R35	R35	
1	3	3									R32	R32	R32	R32	R34	R32	R32		R32	R32				R32	R32	
0	3	3									R35	R35	R35	R35	R33	R33	R35	R35		R35	R35				R35	R37
1	4	4															R32	R32							R32	R32
0	4	4															R35	R35							R35	R37
1	5	5																								
0	5	5																								

* = undetermined. Can be contents of 33, 35, or 37 depending upon instruction fetched. Therefore Return stacks + interrupt stack must be in upper data block

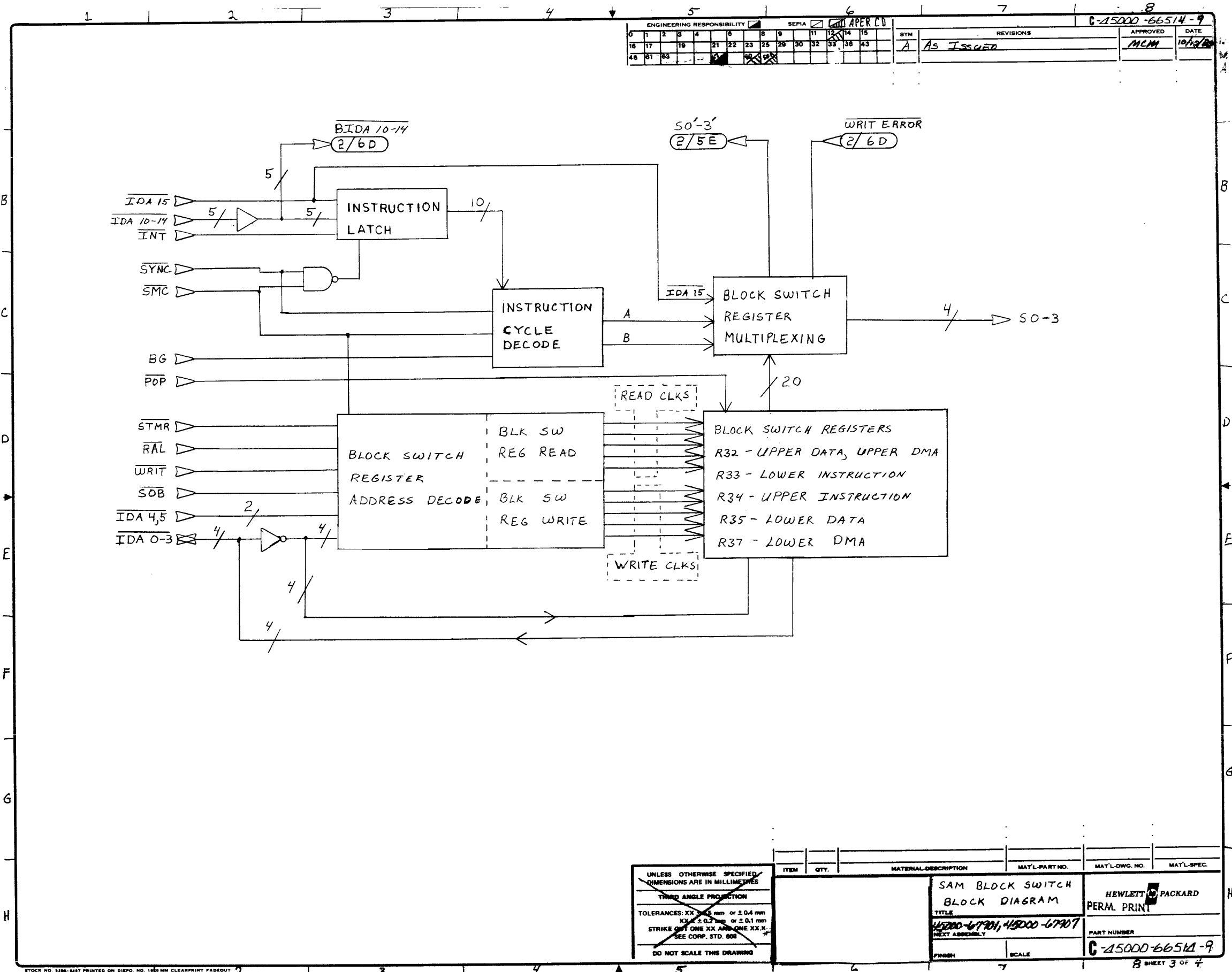
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES
THIRD-ANGLE PROJECTION
TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
XX ± 0.2 mm or ± 0.1 mm
STRIKE OUT ONE XX AND ONE XX.X
SEE CORP. STD. 608
DO NOT SCALE THIS DRAWING

ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG. NO.	MAT'L SPEC.
		BLOCK SWITCH REG. INSTRUCTION MAP			
		15000-67901, 45000-67901			
		FINISH	SCALE		

HEWLETT PACKARD
PERM. PRINT
PART NUMBER
C-15000-66514-9
SHEET 1 OF 4



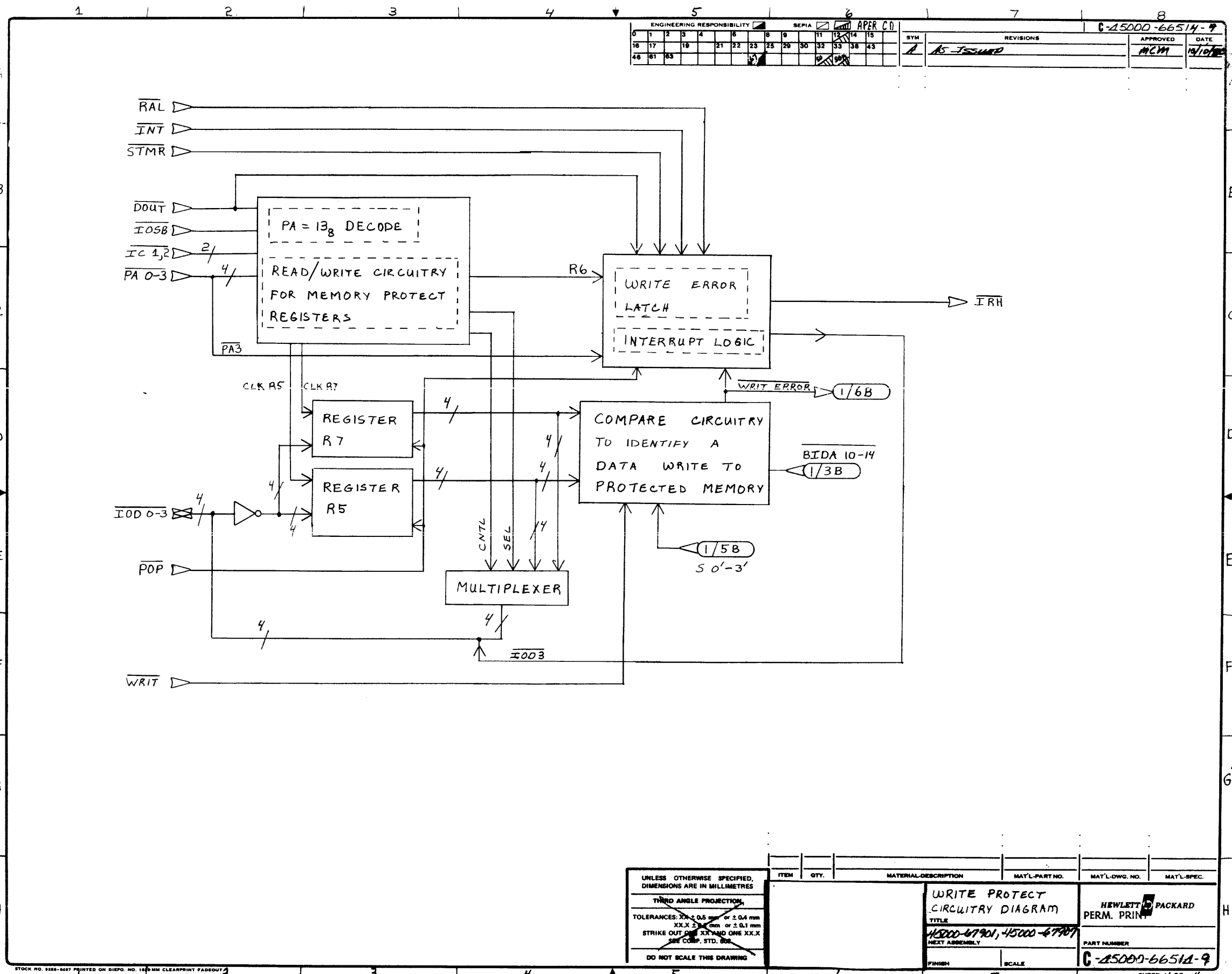
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. SHARP ANGLE PREFERRED. TOLERANCES: XX .1 mm or ±0.4 mm XXX .2 mm or ±0.1 mm STRIKE OUT ONE 'X' AND ONE 'X' SEE COMP. STD. DO NOT SCALE THIS DRAWING	ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG. NO.	MAT'L SPEC.
	BLOCK SWITCH BOARD			HEWLETT PACKARD		
	TIMING SIGNALS			PERM. PRINT		
TITLE			PART NUMBER		G-45000-66514-9	
45000-67901, 45000-67907			NEXT ASSEMBLY			
PARTS			SCALE			



ENGINEERING RESPONSIBILITY															SEPIA	APR 68	C-15000-66514-9			
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	SYM	REVISIONS	APPROVED	DATE	
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	A	As Issued	MCM	10/18/68	
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48				

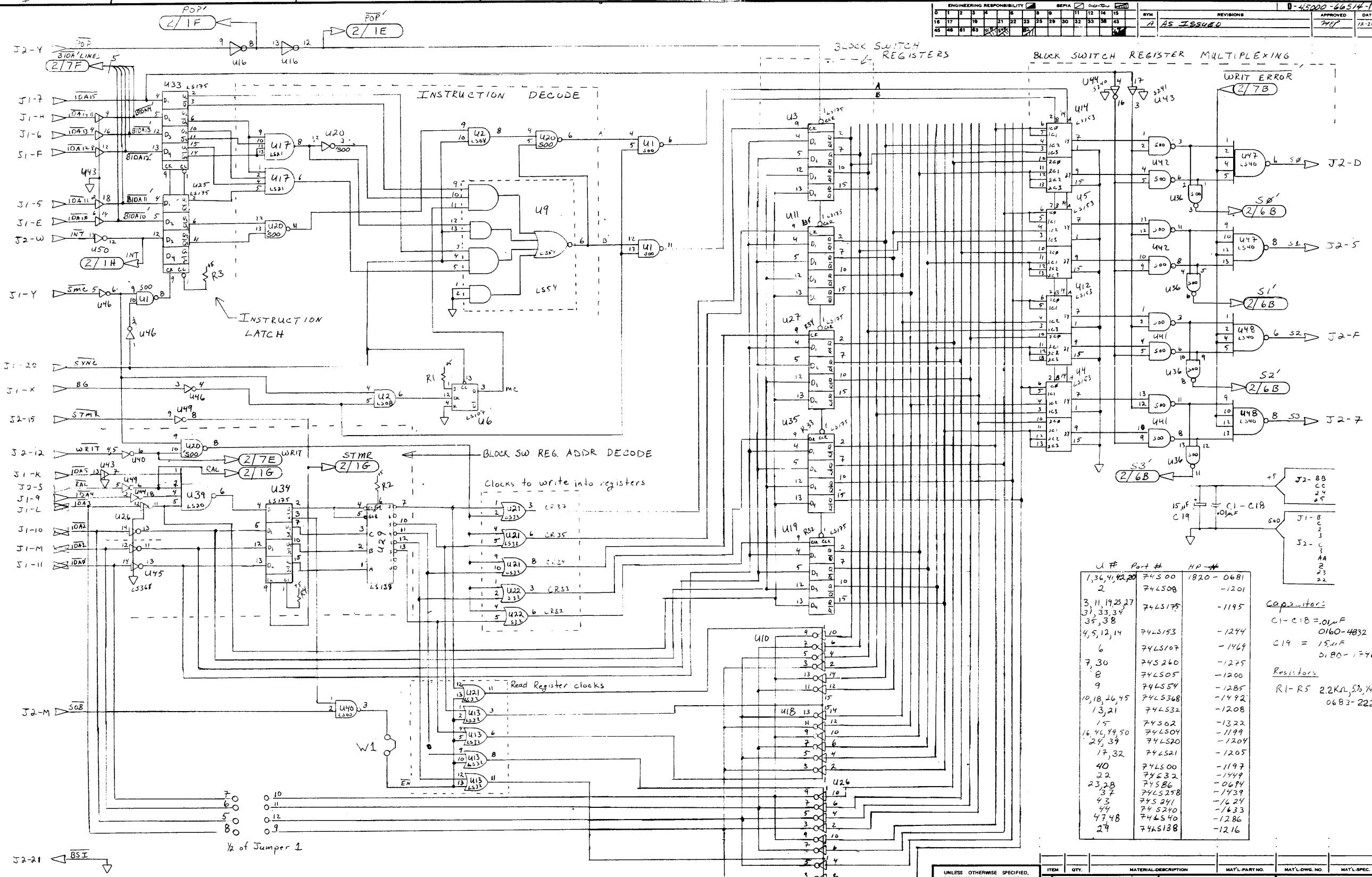
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MILLIMETRES
THIRD ANGLE PROJECTION
TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
XX ± 0.2 mm or ± 0.1 mm
STRIKE OUT ONE XX AND ONE XX, X
SEE CORP. STD. 608
DO NOT SCALE THIS DRAWING

ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG. NO.	MAT'L SPEC.
		SAM BLOCK SWITCH BLOCK DIAGRAM			HEWLETT PACKARD PERM. PRINT
		TITLE			PART NUMBER
		45000-67901, 45000-67907			C-15000-66514-9
		NEXT ASSEMBLY			
		FINISH		SCALE	



ENGINEERING RESPONSIBILITY															SEPIA															APER C.D.															C-15000-66514-9																													
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15															16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35															36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55															56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75																													
APPROVED															DATE															REVISIONS															APPROVED															DATE														
MCM															12/10/68															AS-ISSUED															MCM															12/10/68														

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES		ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
THIRD ANGLE PROJECTION							
TOLERANCES: XX ± 0.5 mm or ± 0.4 mm							
XXX ± 0.1 mm or ± 0.1 mm							
STRIKE OUT ONE XX AND ONE XX.X							
SEE COMP. STD. 000							
DO NOT SCALE THIS DRAWING							
TITLE				HEWLETT PACKARD PERM. PRINT			
WRITE PROTECT CIRCUITRY DIAGRAM				PART NUMBER			
45000-67901, 45000-67907				C-15000-66514-9			
NEXT ASSEMBLY				SCALE			
FINISH				SHEET 4 OF 4			



U #	Part #	HP #
1,3,6,41,42,20	74LS00	1820-0681
2	74LS08	-1201
3,11,19,25,27	74LS175	-1195
31,33,34		
35,38		
4,5,12,14	74LS153	-1244
6	74LS107	-1469
7,30	74LS240	-1275
8	74LS05	-1200
9	74LS54	-1285
10,18,26,45	74LS368	-1492
13,21	74LS32	-1208
15	74S02	-1322
16,46,49,50	74LS04	-1199
24,39	74LS20	-1204
17,32	74LS21	-1205
40	74LS00	-1197
22	74LS32	-1449
23,28	74LS86	-0649
37	74LS258	-1437
43	74S241	-1624
44	74S240	-1633
47,48	74LS40	-1286
29	74LS138	-1216

Capacitors
 C1-C18 0.01µF
 0160-4832
 C19 = 15µF
 0180-1746

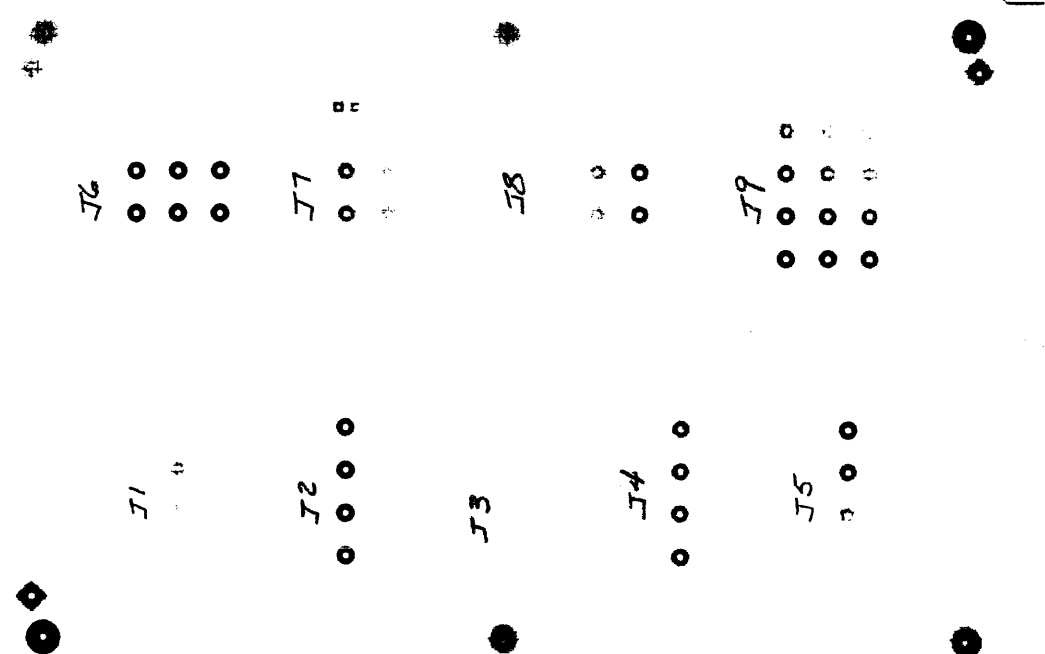
Resistors
 R1-R5 2.2KΩ, 5Ω, 1KΩ
 0683-2225

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES	ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG. NO.	MAT'L SPEC.
THIRD ANGLE PROJECTION	Block Switch Register and Instruction Decoder	1/17/78	Block Switch Register and Instruction Decoder			HEWLETT PACKARD PERM. PRINT
TOLERANCES: XX ± 0.5 mm or ± 0.04 mm XX.X ± 0.2 mm or ± 0.1 mm STRIKE OUT ONE XX AND ONE XX.X SEE COMP. STD. 808	DATE	9/14/81	DATE	9/14/81	15000-67901, 45000-67902	PART NUMBER
DO NOT SCALE THIS DRAWING	RELEASE TO PRODUCE	FINISH	SCALE			D-45000-66514-16

ENGINEERING RESPONSIBILITY												SEPIA							
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55

B-45000-66515-1

SYM	REVISIONS	APPROVED	DATE
A	AS ISSUED	<i>RL</i>	5-3-79



REV 1

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN MILLIMETRES

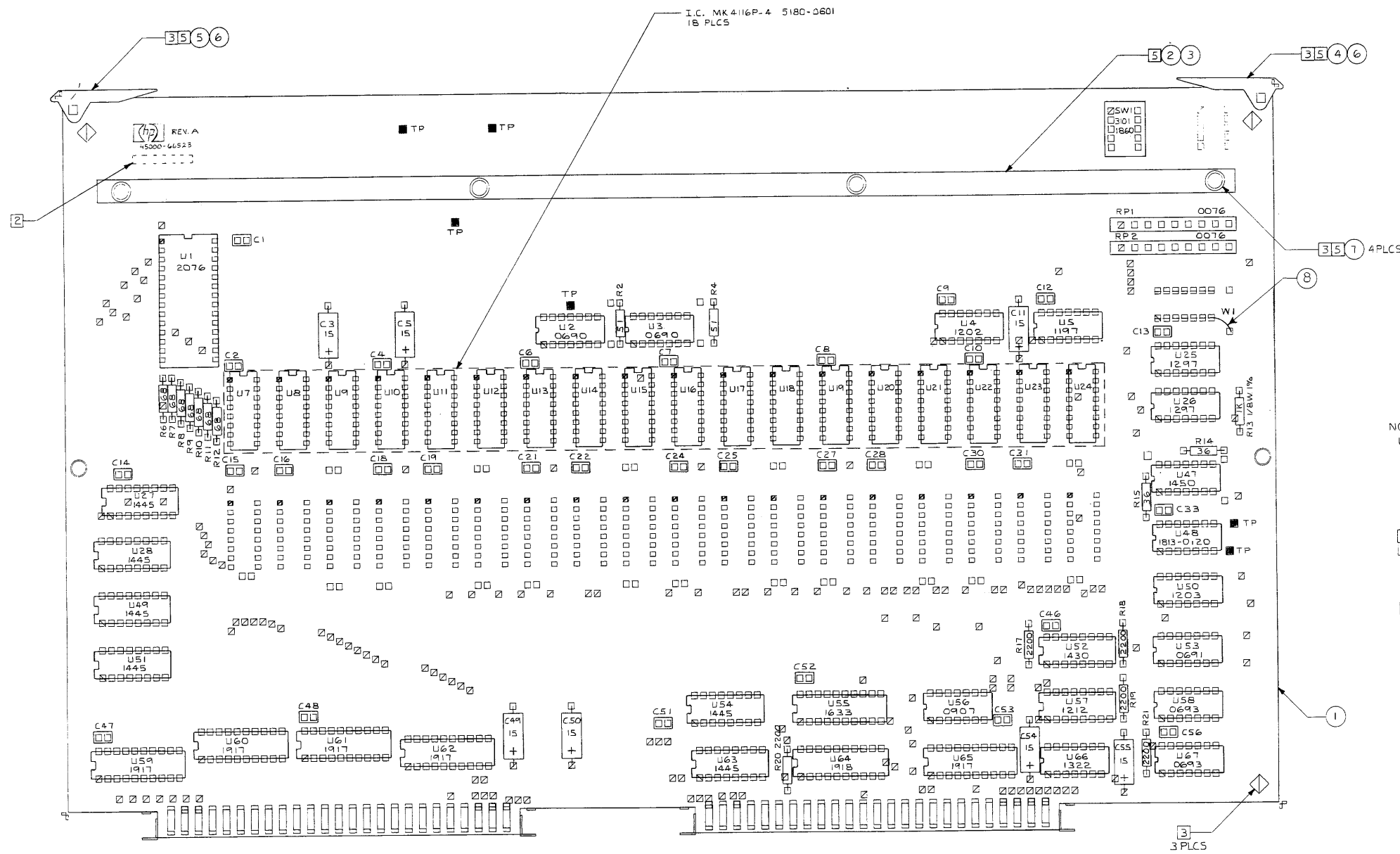
THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
 XX.X ± 0.2 mm or ± 0.1 mm
 STRIKE OUT ONE XX AND ONE XX.X
 SEE CORP. STD. 608

DO NOT SCALE THIS DRAWING

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
		REF. LOCATOR			
		TITLE	HEWLETT PACKARD		
		NEXT ASSEMBLY	PART NUMBER		
		45000-67916	B-45000-66515-1		
		FINISH	SCALE		

ENGINEERING RESPONSIBILITY										REV. A		DATE	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
APPROVED										DATE			
AS ISSUED										DATE			

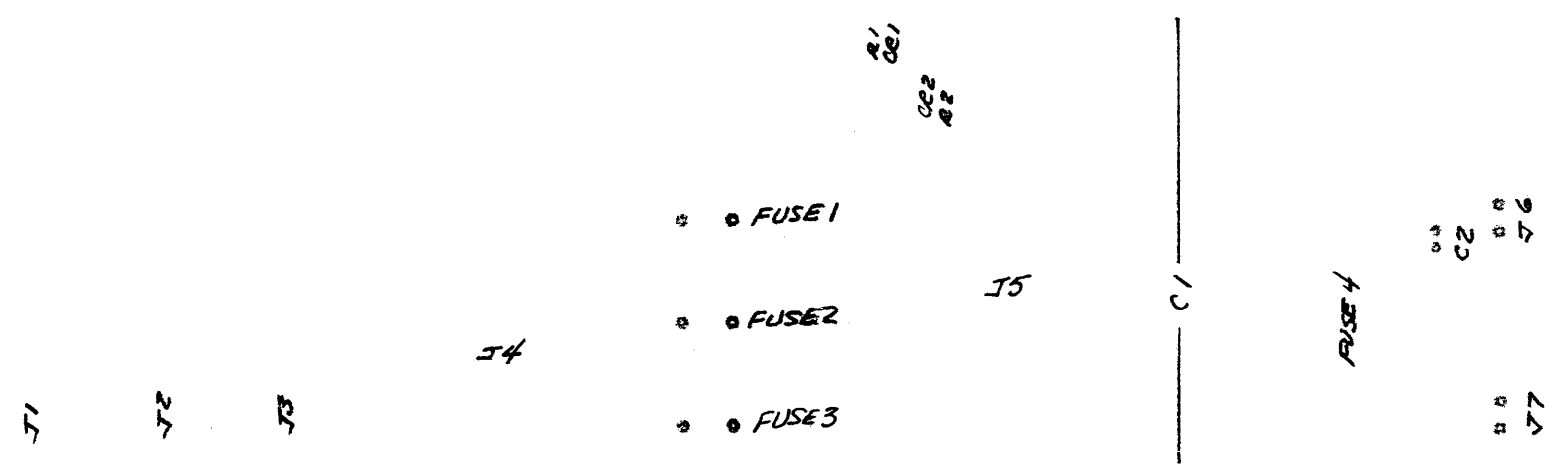


- NOTES
- UNLESS OTHERWISE SPECIFIED
ALL RESISTANCE IN OHMS
ALL RESISTORS 1/4W 5%
ALL RESISTOR NETWORKS ARE 1810-
ALL CAPACITANCE IN MICROFARADS
ALL CAPACITORS ARE .1µf
ALL I.C.'S ARE 1820-
 - MARK DATE CODE "1933" AND MADE IN USA
 - MASK AS INDICATED PRIOR TO LOADING
 - DELETED
 - INSTALL ITEMS (2) THRU (7) IN PC.
FINAL ASSY.

4	7	STUD-TERMINAL	0360-024
5	15	WIRE-22 GA. SARE	85-0013
7	4	SCREW-TAP #40X.31	0624-0007
6	2	PIN GROVE .062X.25	1480-0116
5	1	EXTRACTOR PC BLACK	4040-0748
4	1	EXTRACTOR PC RED	4040-0750
3	1	LABEL IDENT	7120-1254
2	1	BRACE PC BOARD	5040-0258
1	1	PC BOARD ETCHED	45000-66523

DO NOT SCALE THIS DRAWING	ITEM	QTY	MATERIAL DESCRIPTION	MATL. PART NO.	MATL. QTY. REQ.	MATL. SPEC.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE AS SHOWN	ASSEMBLY 32-K BYTE PC.					
TITLE			HEWLETT-PACKARD			
PART NUMBER			45000-66523			
FINISH			SCALE			
SHEET [OF]			7-45000-66523-1			

ENGINEERING RESPONSIBILITY <input checked="" type="checkbox"/> SEPIA <input type="checkbox"/>												B-45000-66528-1							
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	SYM	REVISIONS	APPROVED	DATE
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	A	AS ISSUED	RS	5-3-79
45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60				



UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

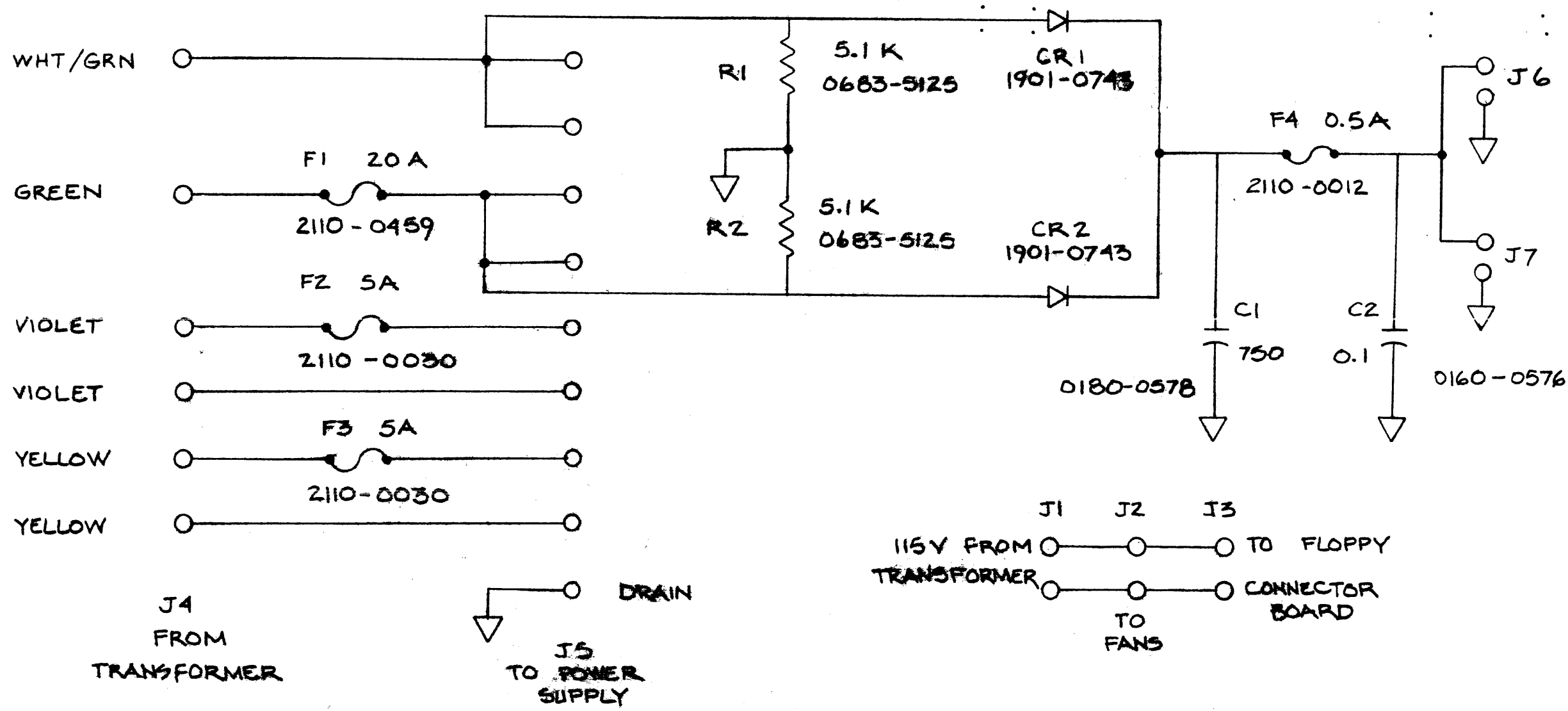
TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
 XXX ± 0.2 mm or ± 0.1 mm
 STRIKE OUT ONE XX AND ONE XX.X
 SEE CORP. STD. 608

DO NOT SCALE THIS DRAWING

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
DRAWN BY		DATE		REF. LOCATOR	
ENGINEER		TITLE		HEWLETT PACKARD	
SUPERSEDES DWG.		NEXT ASSEMBLY		PART NUMBER	
		FINISH		SCALE	
		45000-67916		B-45000-66528-1	

ENGINEERING RESPONSIBILITY										SEPIA				
0	1	2	3	4	5	6	7	8	9	11	12	14	15	
16	17	18	19	20	21	22	23	24	25	29	30	32	33	
45	46	47	48	49	50	51	52	53	54	55	56	57	58	

B-45000-66528-6		APPROVED	DATE
SYM	REVISIONS	W.S.	1-18-82
B	REDRAWN FOR CLARITY		



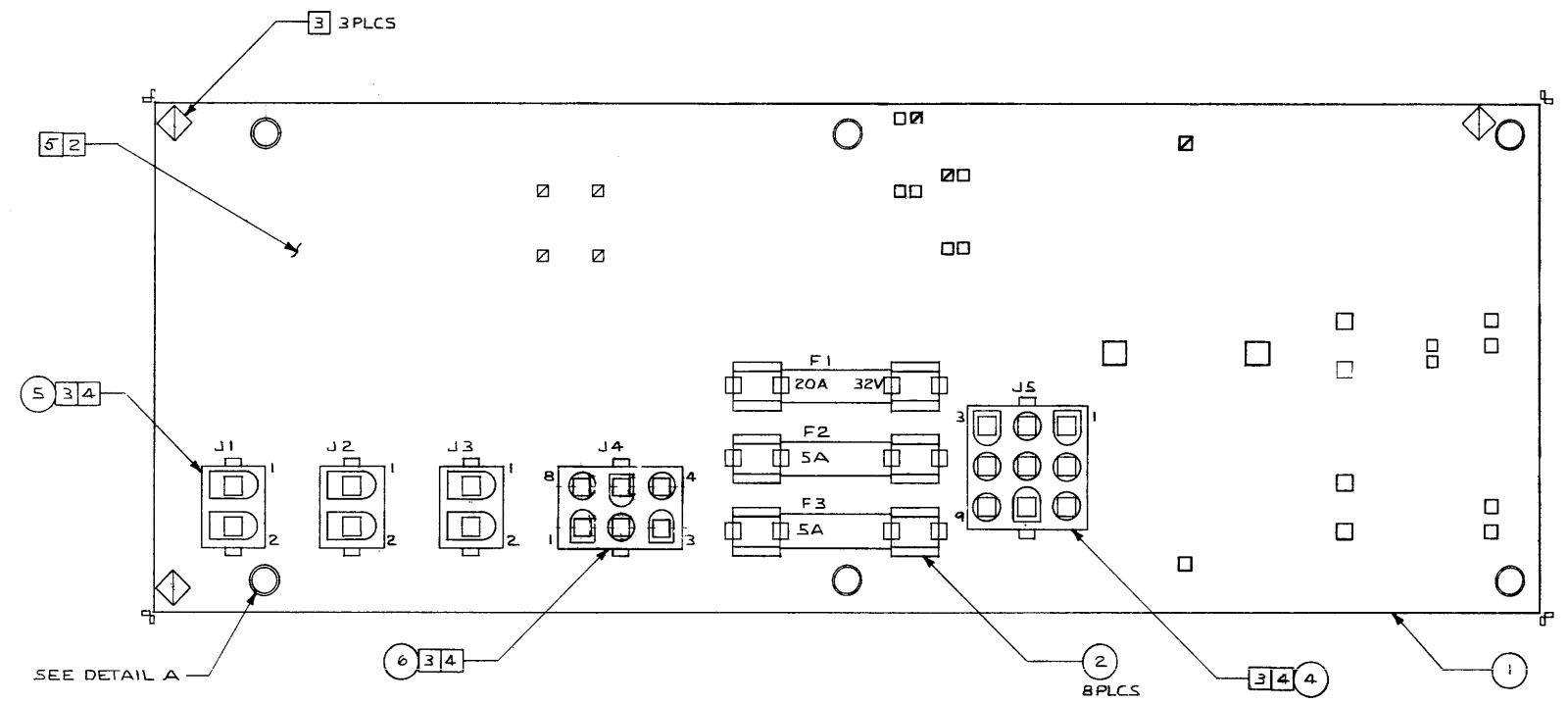
ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.

DO NOT SCALE THIS DRAWING
 UNLESS OTHERWISE SPECIFIED,
 DIMENSIONS ARE IN INCHES.
 TOLERANCES .XX ± .02 .XXX ± .005
 SEE CORP. STD. 608

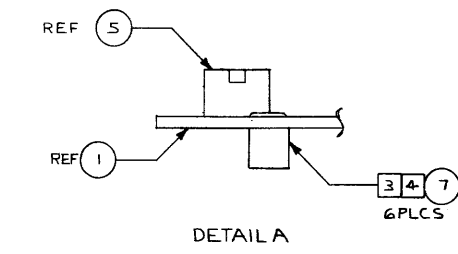
TRANSFORMER BOX
SCHEMATIC
 TITLE
 45000-67916
 NEXT ASSEMBLY
 FINISH SCALE

HP HEWLETT PACKARD
 45000-66528
 PART NUMBER
B-45000-66528-6

ENGINEERING RESPONSIBILITY														SEPA														APERTURE														0-45000-66529-1													
BYM														REVISIONS														APPROVED														DATE													
A														AS ISSUED														MJA														1/26/60													



- NOTES:
- UNLESS OTHERWISE SPECIFIED
ALL RESISTANCE IN OHMS
ALL RESISTORS ARE 1/4W 5%
ALL CAPACITANCE IN MICROFARADS
ALL DIODES ARE IN4004 P/N 1901-0743
 - MARK DATE CODE, 2103, AND MADE IN USA
 - MASK AS INDICATED PRIOR TO LOADING
 - INSTALL ITEMS 4 THRU 7 IN PC FINAL ASSY.
 - REMOVE THE LAST DIGIT "8" FROM THE ETCHED PART NUMBER AND INK STAMP THE NUMBER "9" IN ITS PLACE.



7	6	SPACER SWET	250-0380-0059		
6	1	COVER CAP	1251-3819		
5	3	COVER CAP	1251-4780		
4	1	COVER CAP	1251-5339		
2	6	TRANSFORMER	2110-0269		
1	1	TRANSFORMER	45000-26529		
ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L QTY. NO.	MAT'L SPEC.

DO NOT SCALE THIS DRAWING
UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES.
TOLERANCES: .XX ± .005
SEE CORP. STD. 808

ASSEMBLY
PC TRANSFORMER
BOX

HEWLETT
PACKARD

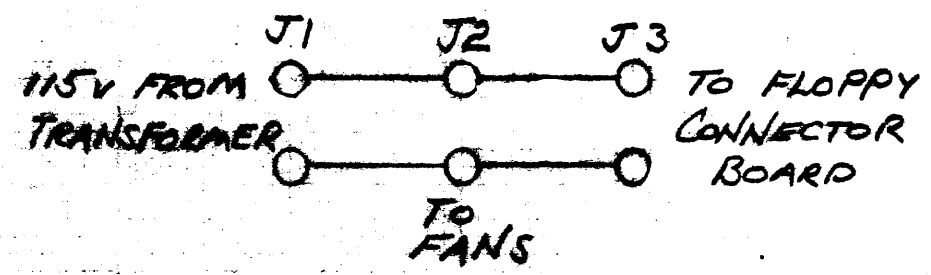
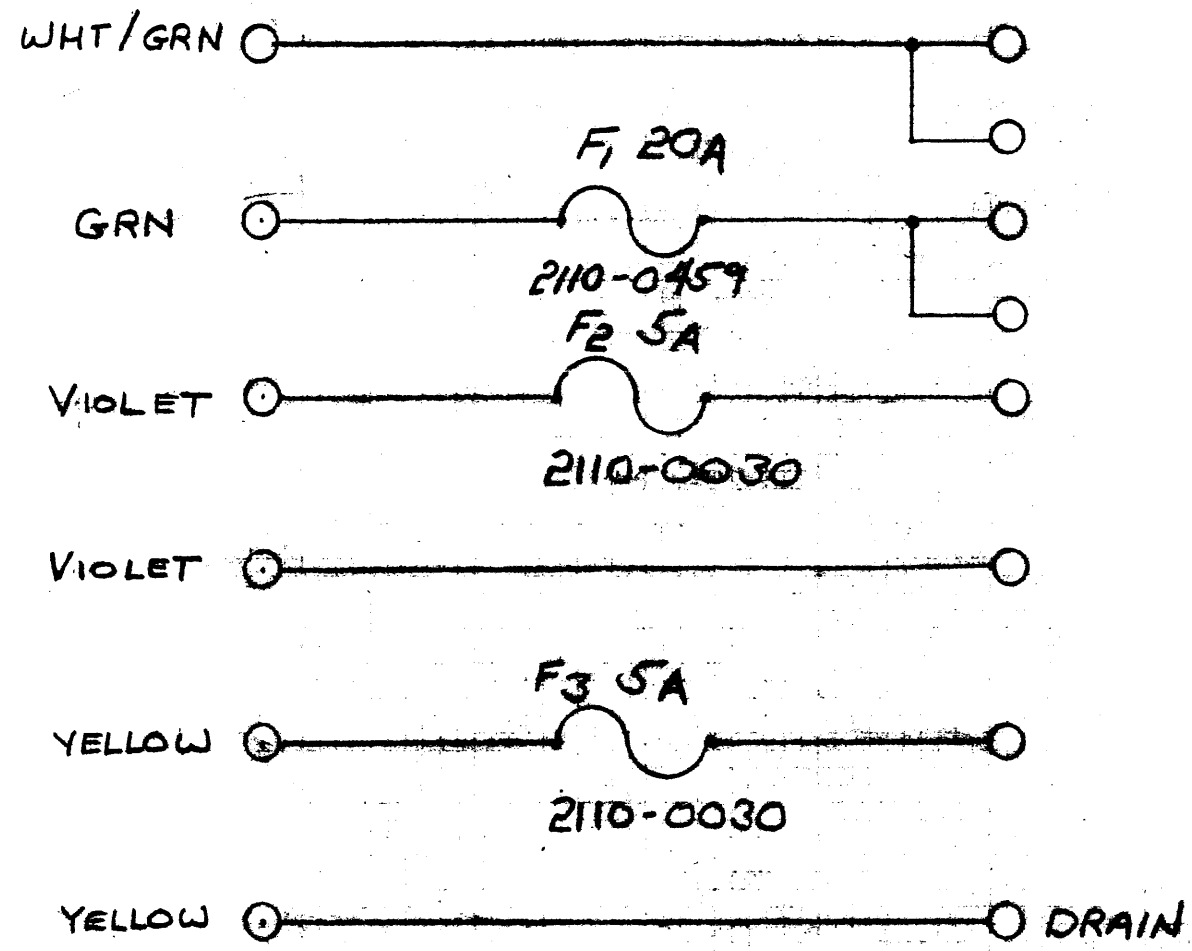
45000-66529

SCALE: 2:1

0-45000-66529-1

ENGINEERING RESPONSIBILITY														SEPLA				AP-CD																																																																																	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99

SYM		REVISIONS		APPROVED		DATE	
A		AS ISSUED		W.S.		1/26/81	

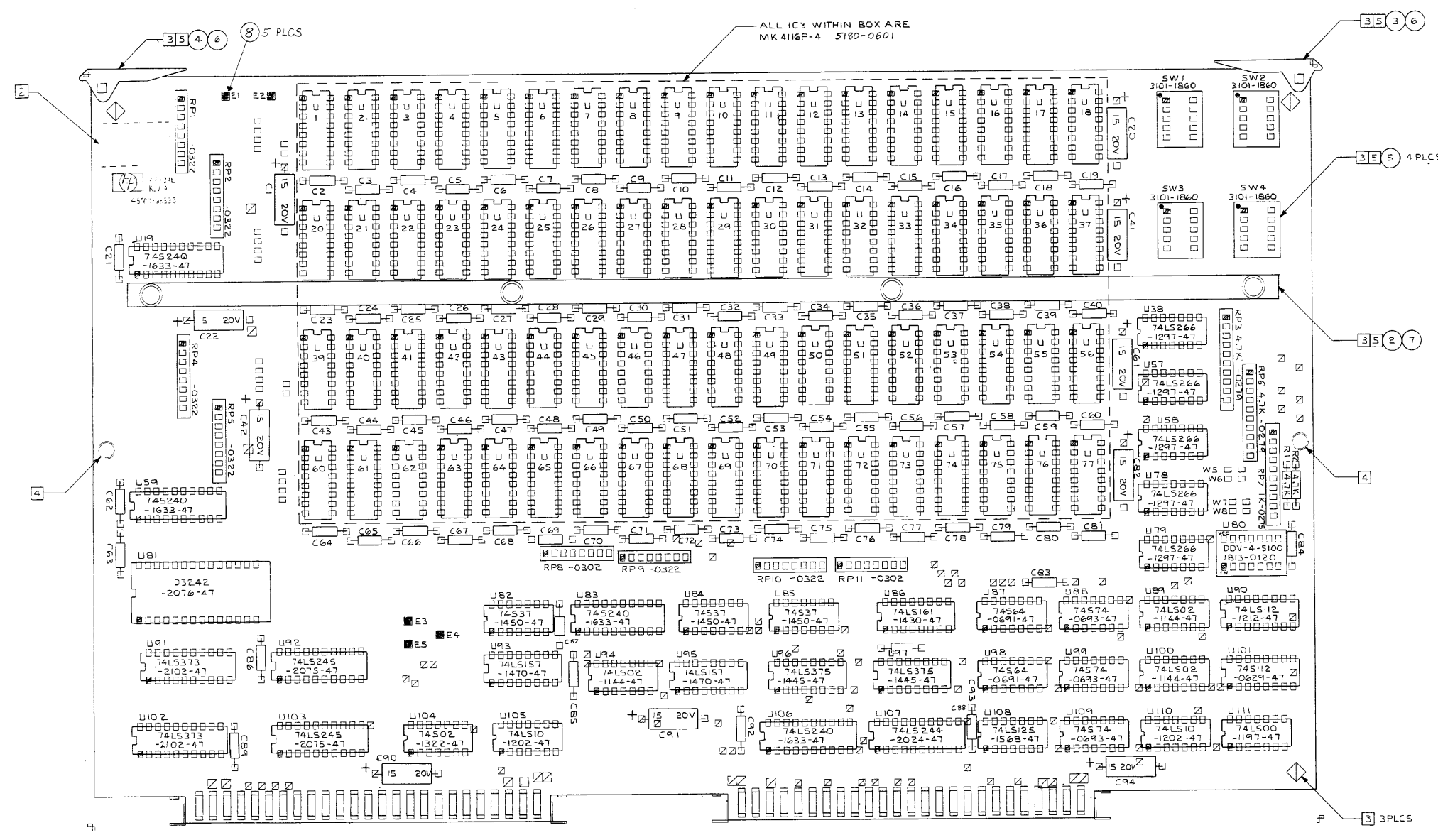


J4 FROM TRANSFORMER

J5 TO POWER SUPPLY

ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
DO NOT SCALE THIS DRAWING					
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.					
TOLERANCES .XX ± .02 .XXX ± .005					
SEE CORP. STD. 608					
DATE		TITLE		HEWLETT PACKARD	
		TRANSFORMER Box BD. Schematic		45000-66529	
NEXT ASSEMBLY		FINISH		PART NUMBER	
		SCALE		B-45000-66529-6	
SUPERSEDES DWG.					

ENGINEERING RESPONSIBILITY													REVISED		DATE	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
APPROVED													DATE			
BY													DATE			



- NOTES
- UNLESS OTHERWISE SPECIFIED
ALL RESISTANCE IN OHMS
ALL RESISTORS ARE 1/4W 5%
ALL RESISTOR NETWORKS ARE 1810-
ALL CAPACITANCE IN MICROFARADS
ALL CAPACITORS ARE 0.1μF CERAMIC
ALL IC'S ARE 1820-
 - MARK DATE CODE 2D6 AND MADE IN USA.
 - MASK AS INDICATED PRIOR TO LOADING
USE SUPPORT FIXTURE DURING WAVE SOLDER
 - INSTALL ITEMS ② THRU ⑦ IN PC FINAL ASSY
 - SCHEMATIC D-45000-66533

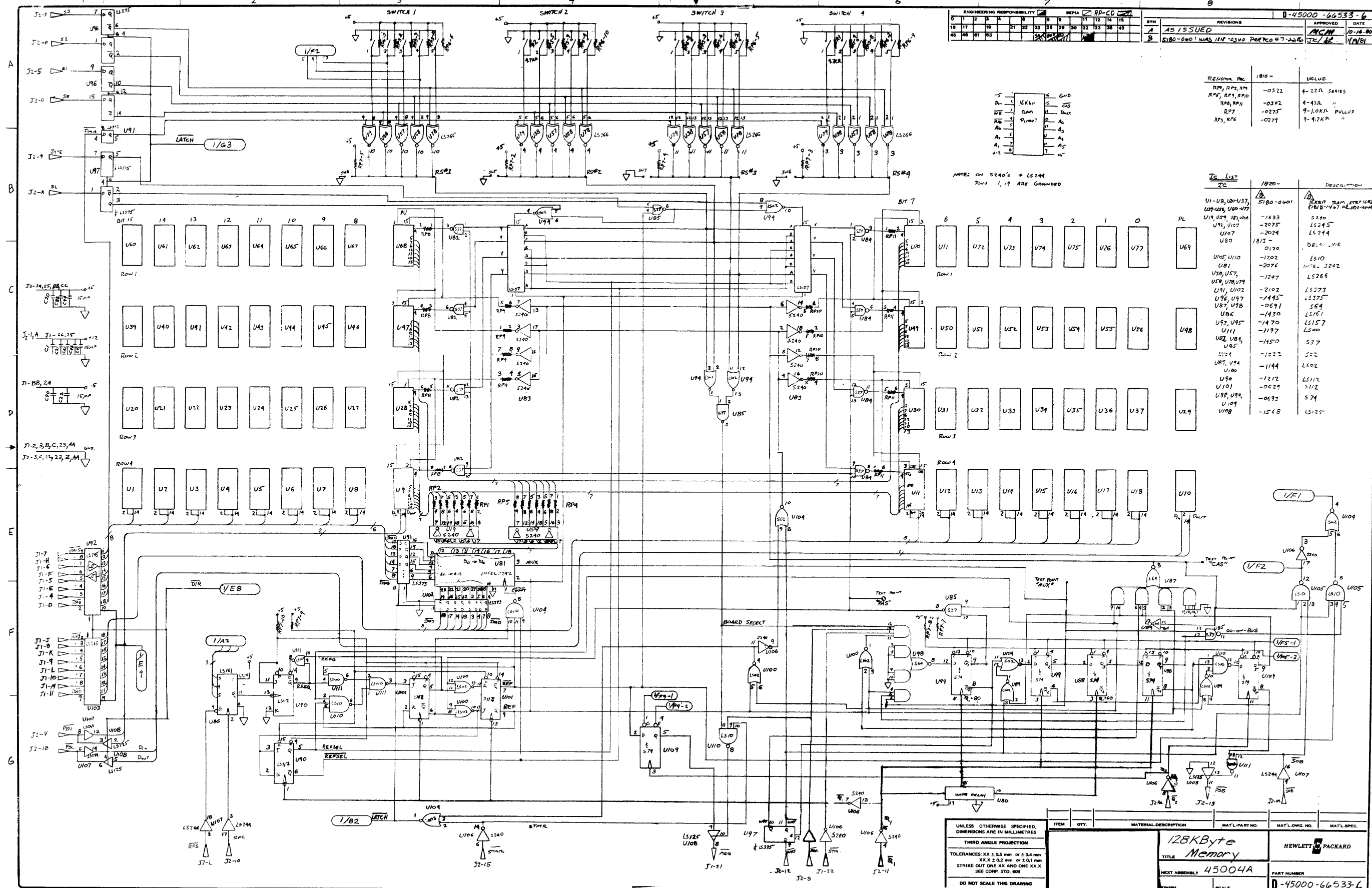
5	STUD TERMINAL	0320-012-
7	SCREW TAP 4-40X.31	0624-0077
6	PIN GROOVE .0625X.25	1480-0116
5	SWITCH SLIDE DIP	3101-1860
4	EXTRACTOR CARD BLACK	4040-0748
3	EXTRACTOR CARD RED	4040-0750
2	BRACE PC BOARD	5040-6059

DO NOT SCALE THIS DRAWING		MATERIAL DESCRIPTION		MATERIAL PART NO.		MATERIAL ENG. NO.		MATERIAL SPEC.	
ASSEMBLY									
28K MEMORY									
HEWLETT PACKARD									
TITLE									
45000-67901 45000A									
MATERIAL SPEC.									
FULL									
SCALE									
FULL									
SHEET NO.									
1 OF 1									

RESISTOR PWR	1810-	VALUE
R1, R2, R4	-0322	4-22A SERIES
R3, R5, R10	-0302	4-47A "
R6, R11	-0275	9-1.0KΩ PULLUP
R7	-0279	9-47KΩ "

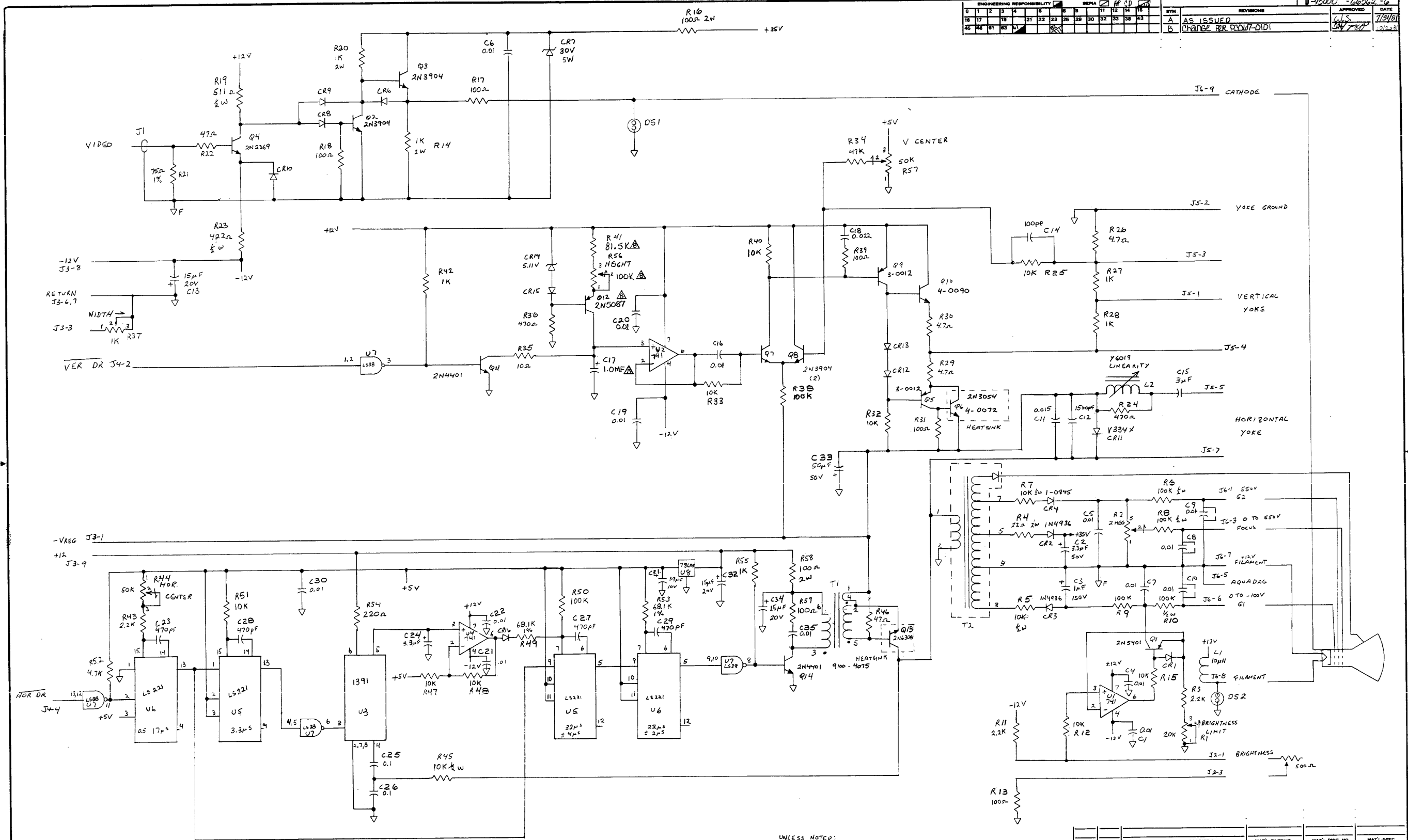
IC	1820-	DESCRIPTION
U1-U8, U20-U37, U49-U59, U60-U77	5180-0001	128Kbit RAM, 16Kbit (16Kbit) 4x72
U9, U10, U11	-1633	5240
U12, U13	-2075	LS245
U14	-2024	LS244
U15	1813-	DE-10-10E
U16	0120	LS10
U17, U18	-1202	LS273
U19	-2076	LS275
U20, U21	-1297	LS266
U22, U23	-2102	LS273
U24, U25	-1495	LS275
U26, U27	-0591	564
U28	-1430	LS161
U29, U30	-1470	LS157
U31	-1197	LS500
U32, U33	-1150	537
U34	-1232	502
U35, U36	-1194	LS02
U37	U100	LS112
U38	-1212	5112
U39	-0629	5112
U40, U41	-0693	574
U42	U109	LS125

NOTE ON S240 & S244
 PINS 1, 19 ARE GROUNDED



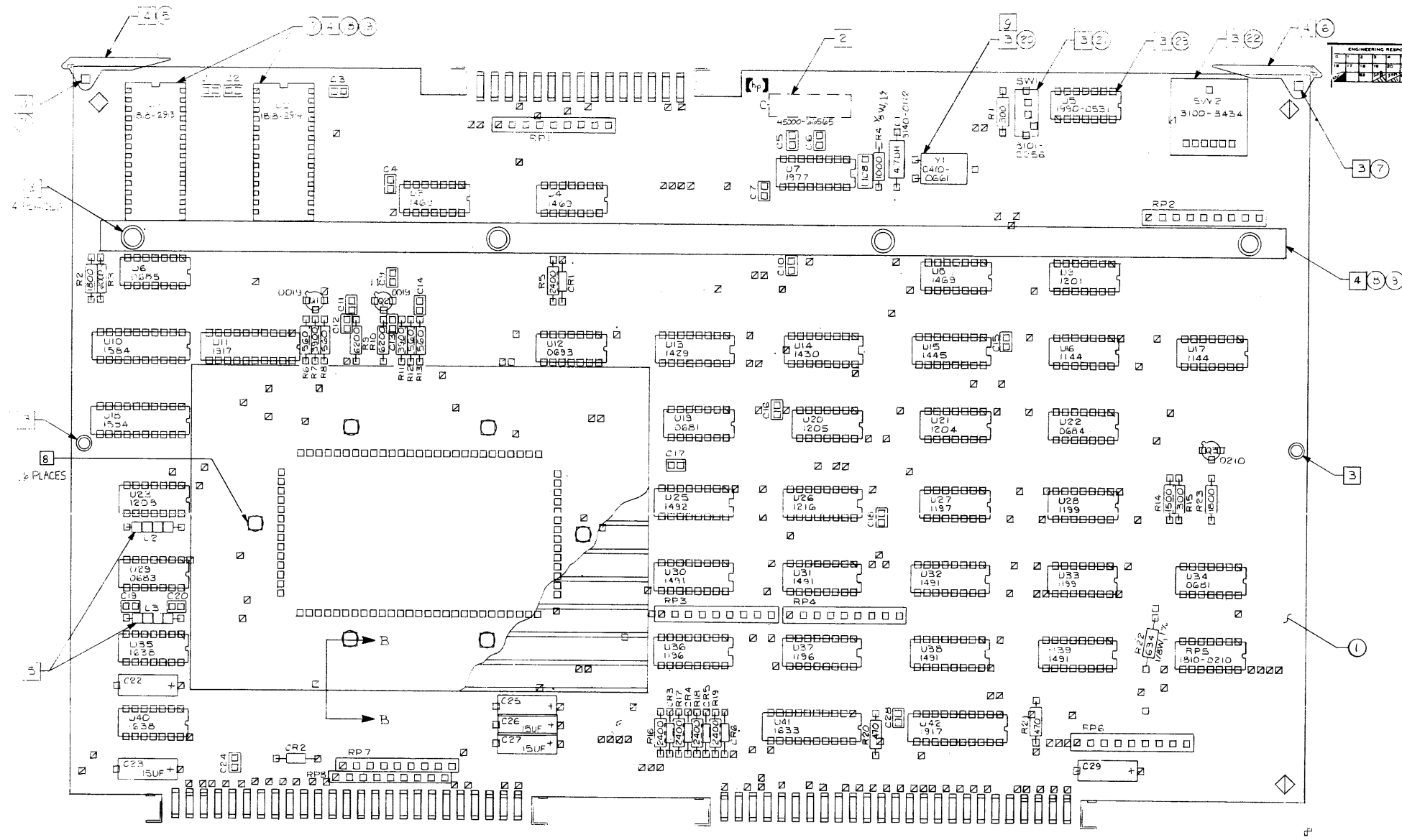
ITEM	QTY	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG. NO.	MAT'L SPEC.
<p>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES</p> <p>THIRD ANGLE PROJECTION</p> <p>TOLERANCES: XX ± 0.5 mm or ± 0.4 mm XX.X ± 0.2 mm or ± 0.1 mm STRIKE OUT ONE XX AND ONE XX.X SEE CORP. STD. 808</p> <p>DO NOT SCALE THIS DRAWING</p>					
<p>TITLE: 128KByte Memory</p> <p>NEXT ASSEMBLY: 45004A</p>			<p>HEWLETT-PACKARD</p> <p>PART NUMBER: D-45000-66533-6</p>		

ENGINEERING RESPONSIBILITY															REVISED		APPROVED		DATE		
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	A		AS ISSUED		1/19/61	
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	B		CHANGE PER REVOUT-D101		12/22/61	



UNLESS NOTED:
 ALL RESISTORS 5%
 ALL DIODES 1901-0050
 CAPACITANCE IN MF

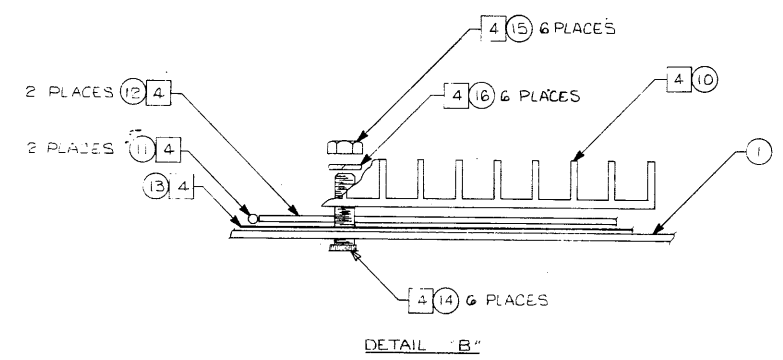
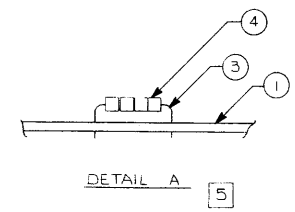
DO NOT SCALE THIS DRAWING		DRAWN BY		DATE		TITLE		HEWLETT PACKARD	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.		ENGINEER		RELEASE TO PROD.		NEXT ASSEMBLY		PART NUMBER	
TOLERANCES .XX ± .02, .XXX ± .005		SUPERSEDES DWG.		FINISH		SCALE		45000-66562	
SEE CORP. STD. 608								-45000-66562-6	



ENGINEERING RESPONSIBILITY		REV. NO.		DATE	
DESIGNED BY	DATE	REV.	NO.	DATE	DESCRIPTION
W. H. STEINBERG	12/21/80	1	1	12/21/80	ISSUED FOR ASSEMBLY
NOTES: (1) AND (2) PER DOCUMENT CHANGE 1/1/82					

NOTES:
 UNLESS OTHERWISE SPECIFIED
 ALL RESISTANCE IN OHMS
 ALL RESISTORS 1/4W 5%
 ALL RESISTOR NETWORKS ARE 1810-0076
 ALL CAPACITANCE IN MICROFARADS
 ALL CAPACITORS .1UF
 ALL I.C.'S ARE 1820-
 ALL TRANSISTORS ARE 1854-
 ALL DIODES ARE 1901-0040

- 2 MARK DATE CODE (2/76) "MADE IN USA"
- 3 MASK AS INDICATED PRIOR TO LOADING
- 4 INSTALL ITEMS (5) THRU (16) AND (18) THRU (23) IN PC FINAL ASS'Y
- 5 FOR INSTALLATION SEE DETAIL "A"
- 6 SCHEMATIC D45000-26565
- 7 ATTACH ITEM (2) TO ALL CAPACITORS EXCEPT 15UF.
- 8 STUDS ARE TO BE INSTALLED PRIOR TO SOLDER WAVE
- 9 GLUE THE CRYSTAL (ITEM (20)) TO THE COMPONENT SIDE OF THE BOARD



ITEM	QTY	MATERIAL DESCRIPTION	MATERIAL NO.	MATL. SPEC.
23	1	DISPLAY - NUM	1990-0531	
22	1	SWY TRN SP18 POS	3100-3434	
21	1	SWY Z3-02D 003	3101-2254	
20	1	CRYSTAL	0410-0661	
19	1	IC ROM LOADER	1818-2830	
18	1	IC ROM SELF TEST	1818-2829	
17	2	SOCKET 25 CONT	1200-0553	
16	6	CRWSHR 4 HEL	2180-0025	
15	6	NUT 4-40 250 AF	2260-0001	
14	6	STANDOFF TERM SPCL	0360-0679	
13	1	CASSETT RECY PVC	0905-0668	
12	2	CONNECTOR-ELSTMC	1251-4214	
11	2	CONNECTOR-ELSTMC	1251-4213	
10	1	IC PROCESSOR	5061-3043	
9	4	SCR TAP 4-40 X .31	0624-0917	
8	1	BRACE - PC BOARD	5040-6098	
7	2	PIN GRV .062 X .25	1480-0116	
6	1	EXTR PC BRD VIO	4040-0755	
5	1	EXTR PC BRD BLK	4040-0740	
4	8	FERRITE BEADS	8170-0834	
3	1/2	WIRE 22GA BARE	8151-0013	
2	1	PC BOARD, ETCHED	45000-26565	

DO NOT SCALE THIS DRAWING

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: .0100 .0150 .0300

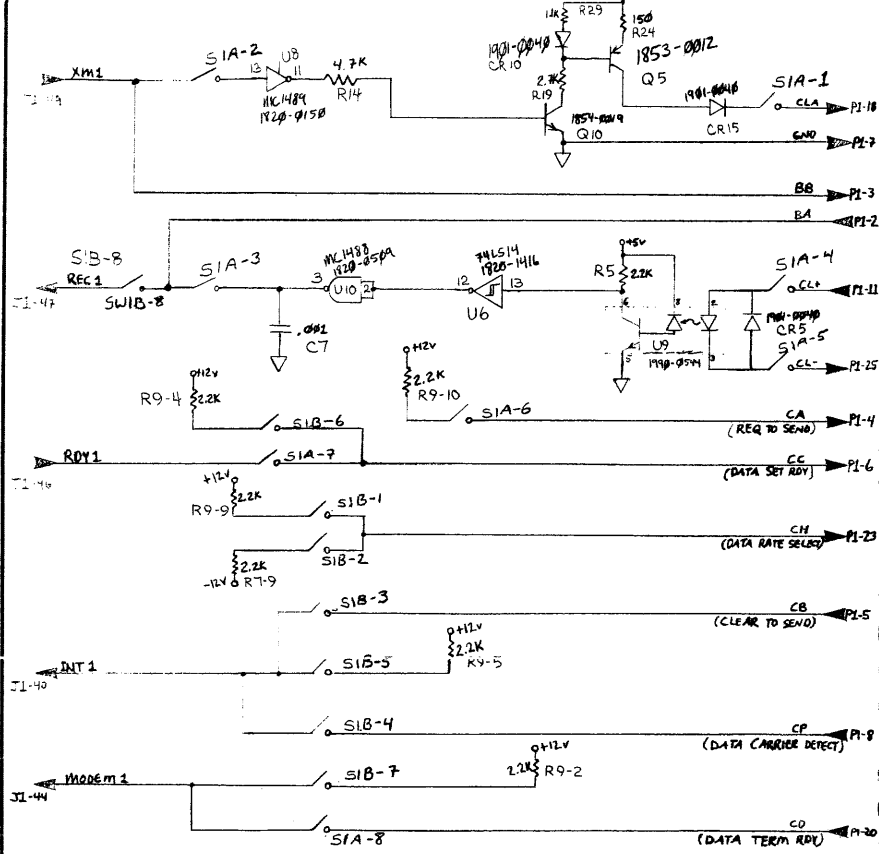
DESIGNED BY: W. H. STEINBERG
 CHECKED BY: W. H. STEINBERG
 DATE: 12/21/80

PROCESSOR BRD ASSY

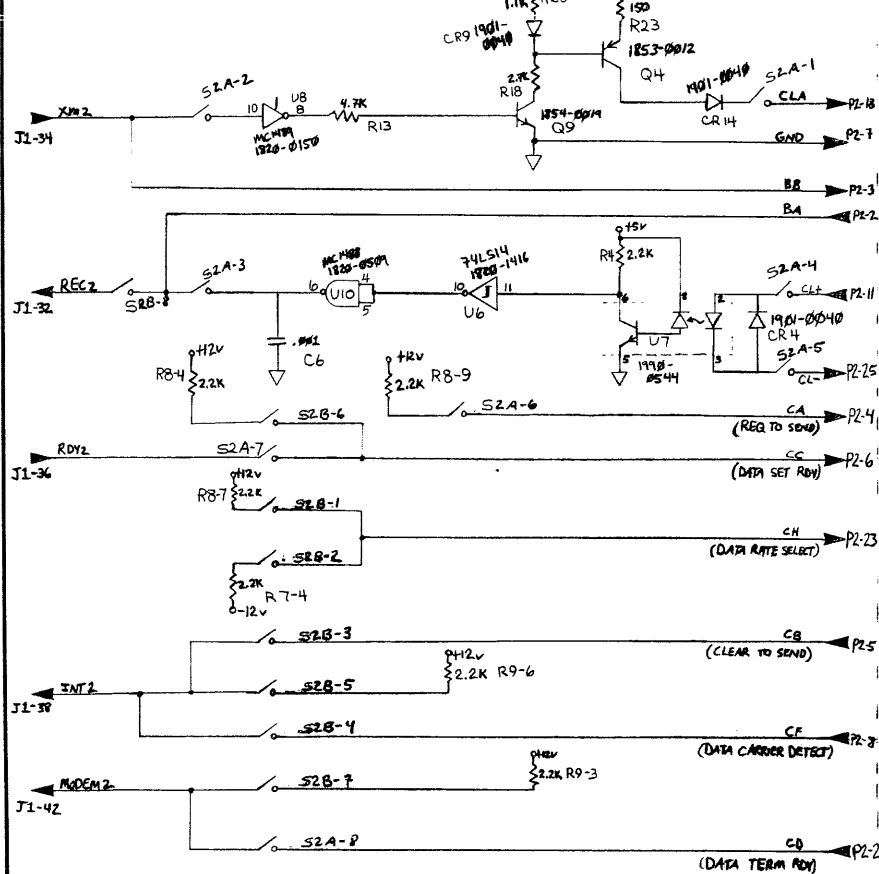
HEWLETT-PACKARD

TITLE: SEE WHERE USED
 PART NO.: 45000-66565
 FINISH: 2/1
 SCALE: 2/1
 SHEET 1 OF 1

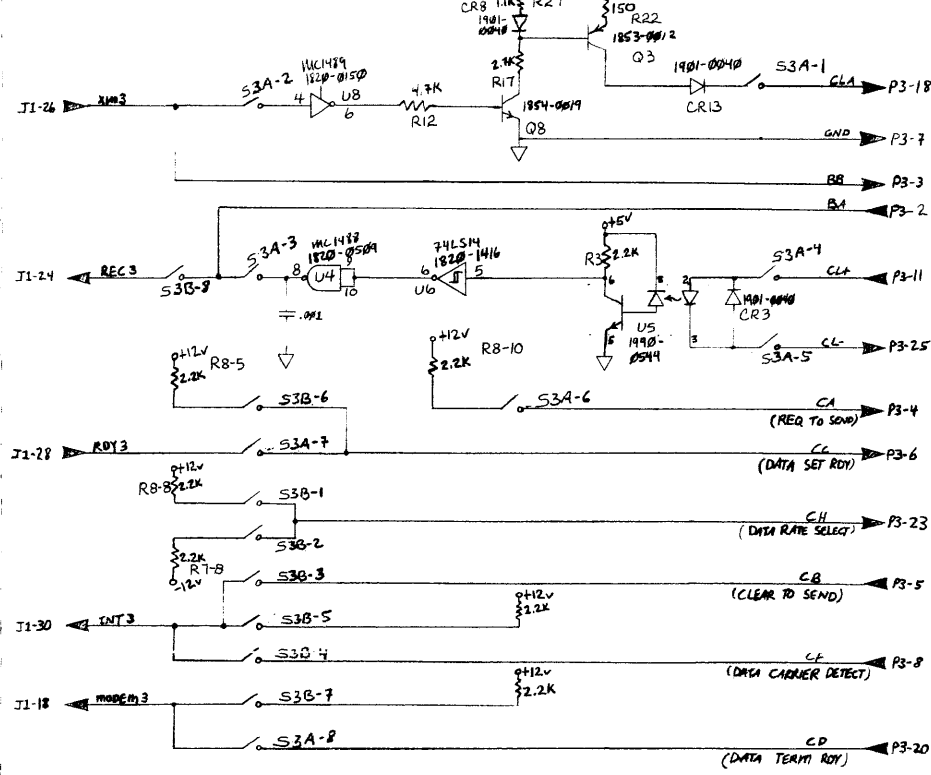
PORT 1



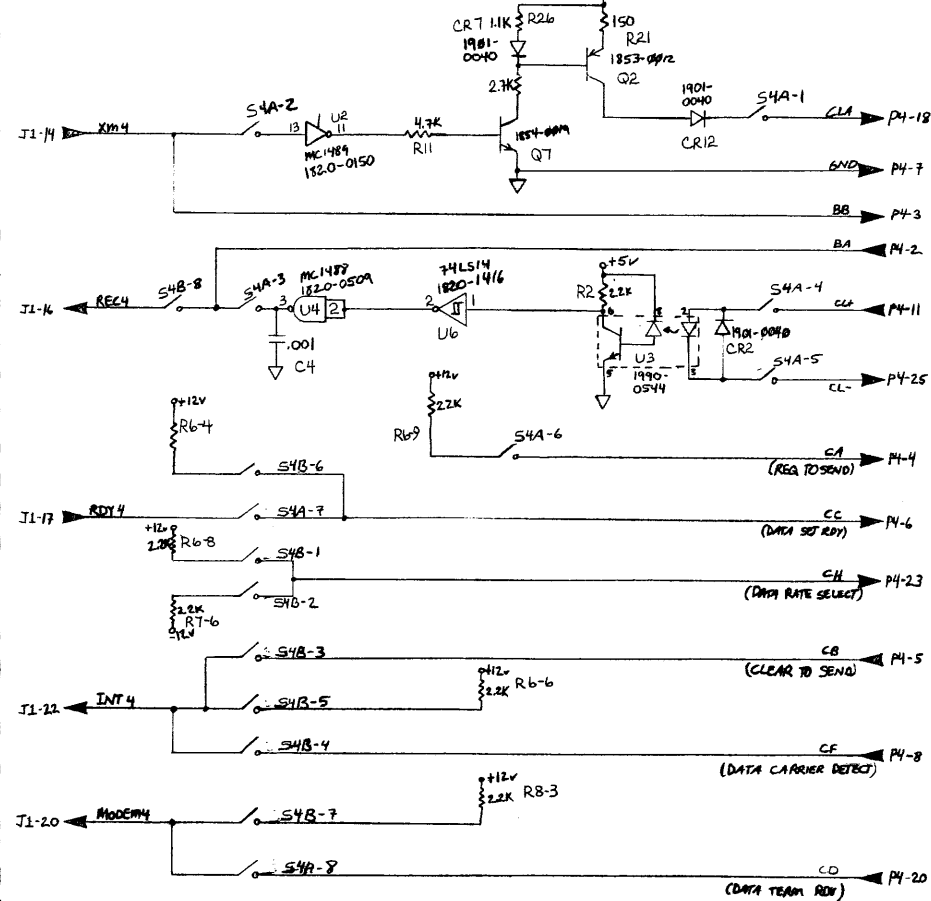
PORT 2



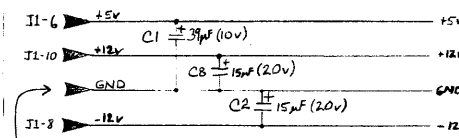
PORT 3



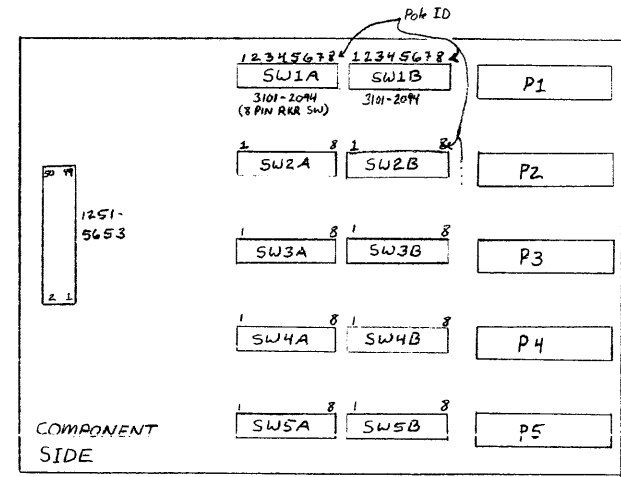
PORT 4



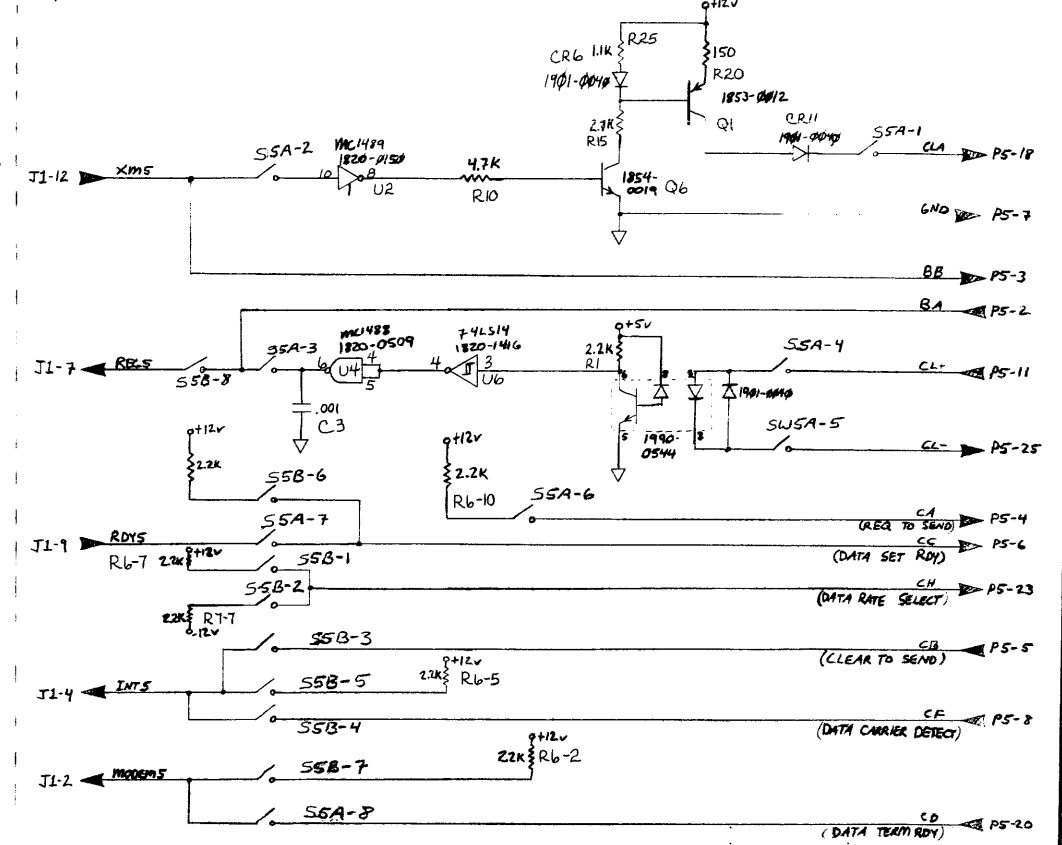
ENGINEERING RESPONSIBILITY										REVISIONS										APPROVED										DATE									
[Signature]										A										[Signature]										1-1-81									
[Signature]										B										[Signature]										4/1/81									



- J1-1 J1-29
- J1-3 J1-31
- J1-5 J1-33
- J1-11 J1-35
- J1-13 J1-37
- J1-15 J1-39
- J1-19 J1-41
- J1-21 J1-43
- J1-23 J1-45
- J1-25 J1-48
- J1-27 J1-50



PORT 5



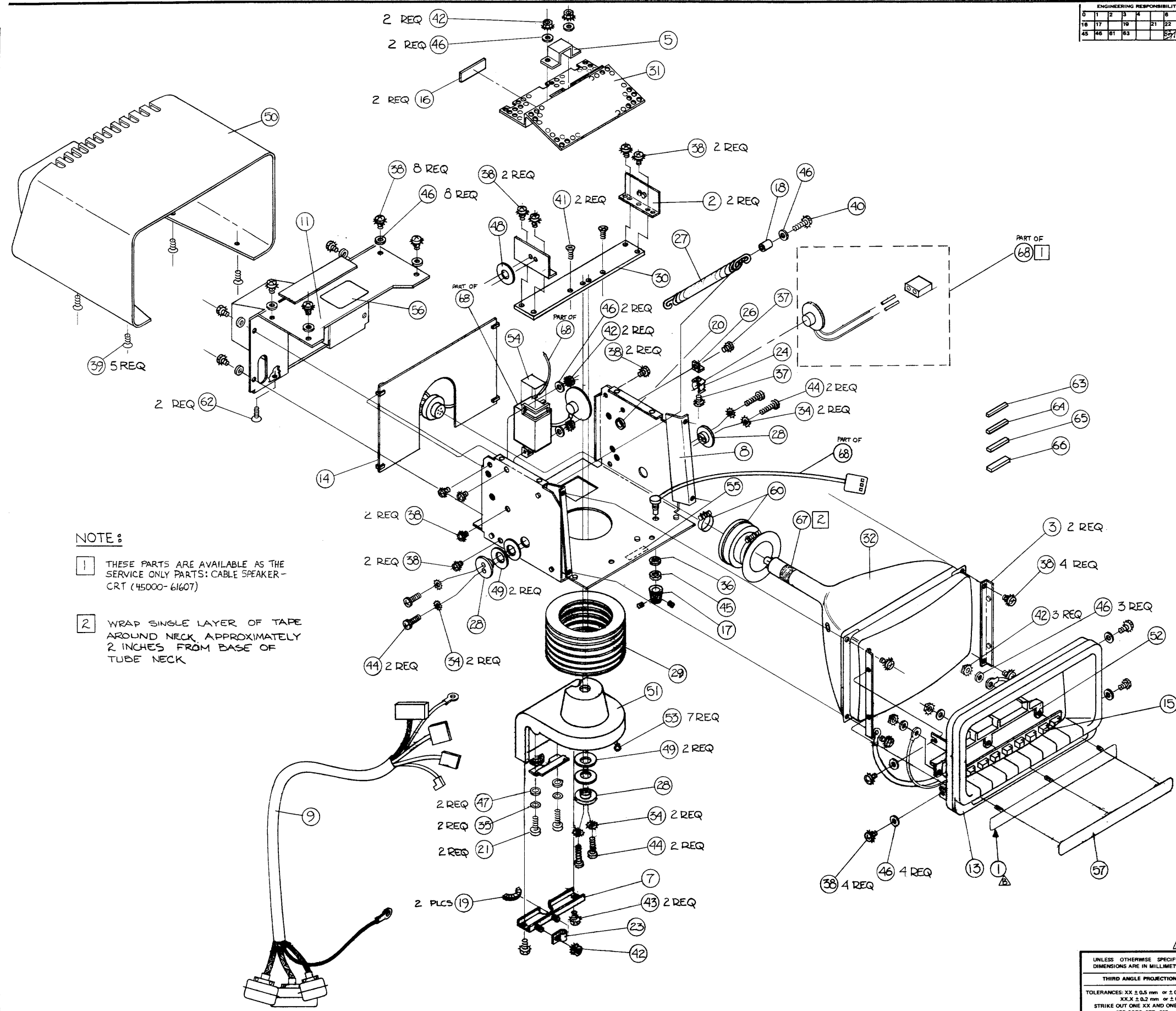
DO NOT SCALE THIS DRAWING

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES .XX ± .02 .XXX ± .005

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG NO.	MAT'L-SPEC.
		RS232LC Connector Panel w/ 20mA Current Loop			HEWLETT PACKARD
TITLE		45000-66566		PART NUMBER	
NEXT ASSEMBLY		FINISH		SCALE	
		D-45000-66566-6		SHEET 1 OF 1	

ENGINEERING RESPONSIBILITY												REVISIONS																																																																																							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

SYN	REVISIONS	APPROVED	DATE
A	AS ISSUED		1/21/81
B	HW#1 WAS 45000-0020A, ITEM #57 WAS 7121-2155 PER MODIF-0065	JAN/W.S.	3-21-81
C	ADDED ADDITIONAL GND LUBE PER MODIF-0064	JAN/W.S.	6-9-81
D	HW#4 WAS 45000-0020B IN ORDER PER MODIF-0065	JAN/W.S.	6-9-81
E	REVISED PER PCD 67-0076	R/L	7/28/81



NOTE:

1 THESE PARTS ARE AVAILABLE AS THE SERVICE ONLY PARTS: CABLE SPEAKER-CRT (45000-61607)

2 WRAP SINGLE LAYER OF TAPE AROUND NECK APPROXIMATELY 2 INCHES FROM BASE OF TUBE NECK

ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG. NO.	MAT'L SPEC.
48	1	CBL-CRT WIRE SET	45000-61647		
67	A/R	TAPE-VINYL, YELLOW	0460-0119		
66	A/R	MAGNET 4.5 ± 0.5 GAUSS	9160-0255		
65	A/R	MAGNET 3.5 ± 0.5 GAUSS	9160-0251		
64	A/R	MAGNET 2.0 ± 0.5 GAUSS	9160-0250		
63	A/R	MAGNET 1.5 ± 0.5 GAUSS	9160-0249		
62	2	SCREW-MACH #6-32 x .312 FH	2360-0194		
60	1	DEFLECTION YOKE	9100-4079		
57	1	NAMEPLATE	7121-2155		
56	1	LABEL - WARNING	7120-6157		
55	1	LABEL - U.S.A.	7120-5171		
54	1	LABEL - HIGH VOLTAGE	7120-0137		
53	7	HOLE PLUG	6960-0093		
52	1	PC BOARD STIFFENER	4040-1596		
51	1	CRT CLAMP	4040-1595		
50	1	CRT SHELL	4040-1592		REF
49	4	WASHER-SPR BLVL 3/4"	3050-0921		
48	1	WASHER-FLAT 19 mm ID NM	3050-0912		
47	2	WASHER-SHLDR #4-40 NYLON	3050-0441		
46	20	WASHER-#6-32 MTLG	3050-0066		
45	1	NUT-HEX, DOUBL CHAMFER	2950-0006		
44	6	SCREW-#8-32 x .75 PH	2510-0111		
43	2	SCREW-#8-32 x .25 PH	2510-0041		
42	8	NUT-LOCKWASHER #6-32	2420-0001		
41	2	SCREW-#6-32 x .75 FH	2360-0181		
40	1	SCREW-#6-32 x .75 PH	2360-0125		
39	5	SCREW-#6-32 x .375 FH	2360-0196		
38	28	SCREW-#6-32 x .35 PH	2360-0117		
37	2	SCREW-#6-32 x .25 PH	2360-0113		
36	4	LOCKWASHER 1/4 I.D.	2190-0027		
35	2	LOCKWASHER #2 INT.	2190-0014		
34	6	LOCKWASHER #3 EXT.	2190-0010		
32	1	CATHODE RAY TUBE	2090-0028		
31	1	BARRIER-CRT	1600-0793		
30	1	SUPPORT BAR	1600-0693		
29	1	BELLOWS	1540-0528		
28	3	CRT HUB	1530-2066		
27	1	SPRING-EXTENSION .5" O.D.	1460-1620		
26	1	RIGHT ANGLE BRACKET	1400-0290		
24	1	CLIP-COMPONENT, SNAPIN	1400-0042		
23	1	CABLE CLAMP	1400-0020		
21	2	SCREW-#2-56 x .25 L	0520-0126		
20	1	BUSHING-BLK NYLON SNAPIN	0400-0064		
19	70 mm	NYLON CHANNELING	0400-0018		
18	1	ROUND SPACER .375x.18 I.D.	0380-0006		
17	1	BASE KNOB 1/2"	0370-1089		
16	2	FOAM PAD 3"	0460-0552		
15	1	SOFTKEY P.C. BOARD	45000-66512		
14	1	CRT P.C. BOARD	45000-66501		
13	1	PAINTED BEZEL	4040-1760		
11	1	CRT ASSY COVER	45000-61605		
9	1	CRT CABLE	1251-4145		
8	1	MT. ASSY CHASSIS	45000-61605		
7	1	CRT RETAINER	45000-60104		
6	1	CRT RETAINER	45000-04705		
5	1	CABLE CLAMP	45000-01227		
4	1	CABLE SUPPORT	45000-01214		
3	2	BEZEL BRACKET	45000-01203		
2	2	CRT BRACKET	45000-01202		
1	1	SUBPANEL	7101-0266		

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
 XX.X ± 0.2 mm or ± 0.1 mm
 STRIKE OUT ONE XX AND ONE XX.X
 SEE CORP. STD. 608

DO NOT SCALE THIS DRAWING

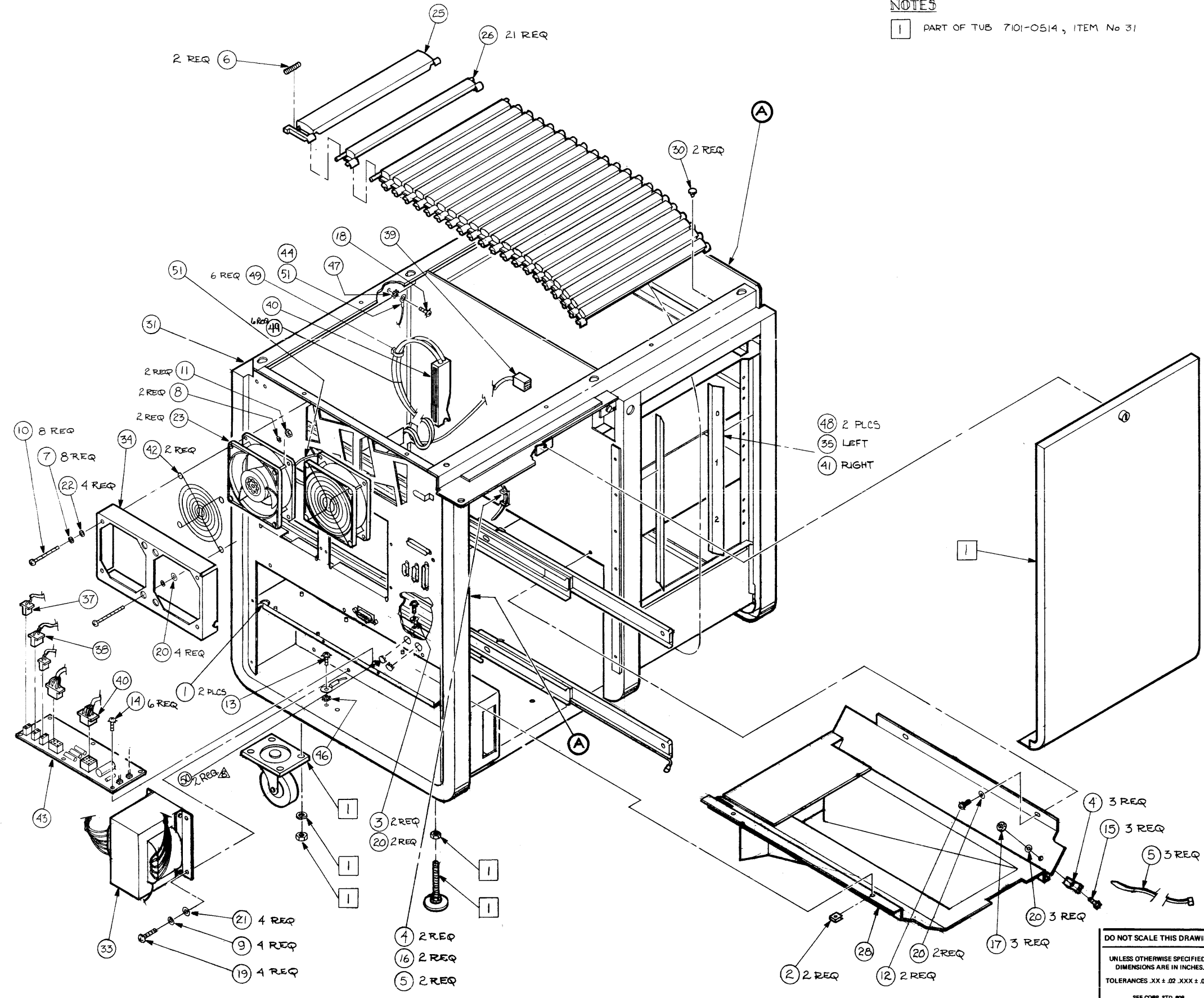
250 CRT ASSY		HEWLETT-PACKARD	
TITLE	45250A	PART NUMBER	45000-67905
NEXT ASSEMBLY		PART NUMBER	
FINISH		SCALE	

D-45000-67905-1

ENGINEERING RESPONSIBILITY														
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
45	46	47	48	49	50	51								

REVISED		D-45000-67916-1	
BY	DATE	APPROVED	DATE
A	AS ISSUED		10-9-80
B	ITEM #30 DELETED, #50 ADDED FOR P067-0015		12-31-80
C	CHANGE ITEM #11 TO 216 CHG 4 ON		2-6-81
D	PAGE 2 Ref. P.C.O. # 67-0049		
	DRAWER (4040-1395) DELETED PER P.C.O. # 67-0088		8-13-81

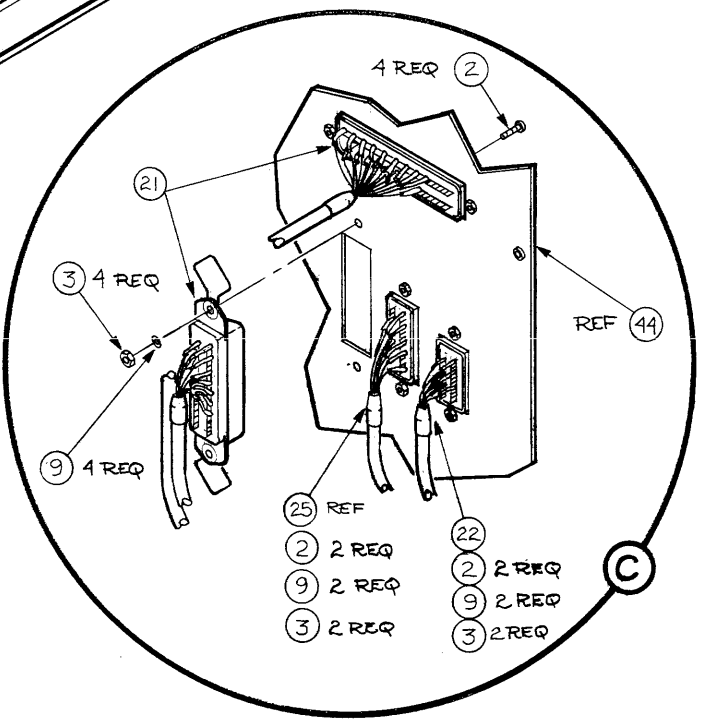
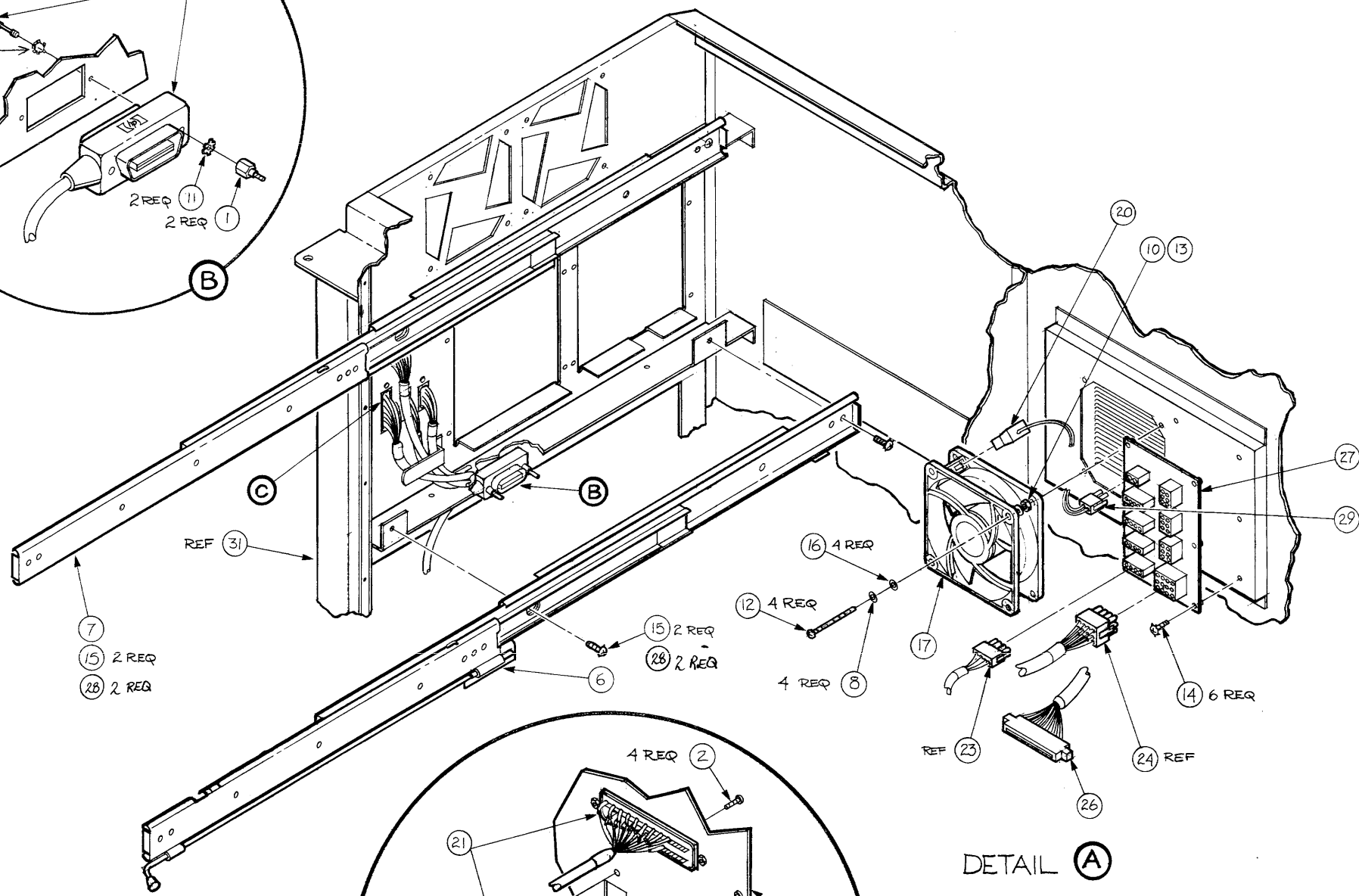
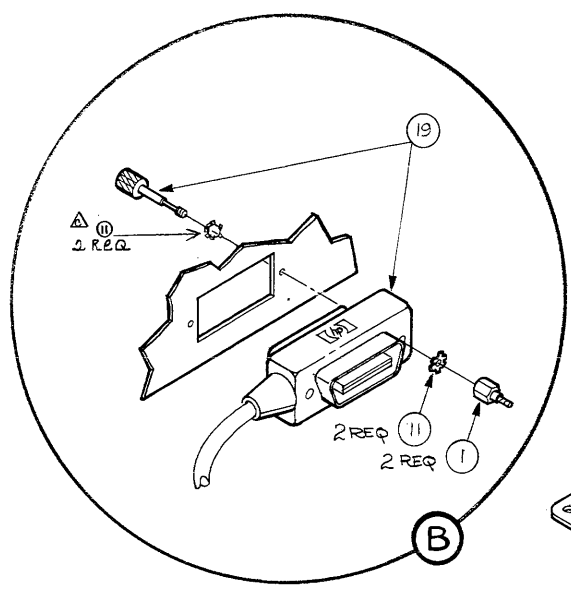
NOTES
 1 PART OF TUB 7101-0514, ITEM No 31



51	1	TUB ASSY WIRE SET	45000-61643		
50	2	HOLE PLUG	6960-0002		
49	10	CABLE TIE	1400-0249		
48	2.67FT	TAPE	0460-1418		
47	1	LOCKWASHER No 8 EXT	2190-0010		
46	1	LOCKWASHER No 6 EXT	2190-0008		
45					
44					
43	1	PCA, TRANSFORMER BOX	45000-66529		
42	2	FAN GRILLE SPCL	3160-0337		
41	1	SILKSCREENED TRIM STRIP	45000-64511		
40	1	POWER SUPPLY CABLE	45000-61639		
39	1	DC POWER FLOPPY CABLE	45000-61633		
38	1	AC POWER FAN CABLE	45000-61632		
37	1	AC POWER CABLE	45000-61626		
36					
35	1	FLOPPY TRIM STRIP	45000-04311		
34	1	SHIELD, FAN	1000-1007		
33	1	TRANSFORMER	9100-4054		
32					
31	1	TUB ASSEMBLY	7101-0514		
30	4	HOLE PLUG	6960-0096		
29					
28	1	RAM, AIR INDUCTOR	4040-1403		
27					
26	21	DOOR SLAT	4040-1368		
25	1	DOOR HANDLE	4040-1367		
24					
23	2	FAN, TBAX 74 CFM	3160-0311		
22	4	WASHER, FLAT No 5	3050-0716		
21	4	WASHER, FLAT No 10	3050-0257		
20	11	WASHER No 6 BRS	3050-0066		
19	4	SCREW No 10-32 X .50 PH	2680-0101		
18	1	SCREW No 8-32 X .25	2510-0041		
17	3	NUT, No 6-32 W/LK	242D-0001		
16	2	SCREW, No 6-32 X .312 PH	2360-0332		
15	3	SCREW, No 6-32 X .44 PH	2360-0199		
14	6	SCREW, No 6-32 X .5 PH L	2360-0121		
13	1	SCREW, No 6-32 X .250 PH	2360-0113		
12	2	SCREW, No 6-32 X .38 PH	2360-0117		
11	2	NUT, No 4-40 .250 AF	2260-0001		
10	8	SCREW, No 4-40 X 1.875 F	2200-0528		
9	4	LOCKWASHER 10 HEL	2190-0034		
8	2	LOCKWASHER, EXT TH	2190-0005		
7	8	LOCKWASHER 4 HEL	2190-0003		
6	2	SPRING, MUSIC WIRE	1460-1652		
5	5	CABLE TIE 7.4 L RLSE	1400-0932		
4	5	MOUNT, CABLE TIE	1400-0912		
3	2	SCREW, No 6 X .625 TPG	0824-0267		
2	2	NUT, SHEETMETAL	0890-1224		
1	.39 FT.	GROMMET CHANNEL	0400-0207		

DO NOT SCALE THIS DRAWING
 UNLESS OTHERWISE SPECIFIED,
 DIMENSIONS ARE IN INCHES.
 TOLERANCES .XX ± .02 .XXX ± .005
 SEE CORP. STD. 808

TUB ASSY		HEWLETT PACKARD	
TITLE	45250A	PART NUMBER	45000-67916
NEXT ASSEMBLY		PART NUMBER	45000-67916-1
FINISH		SCALE	1/4

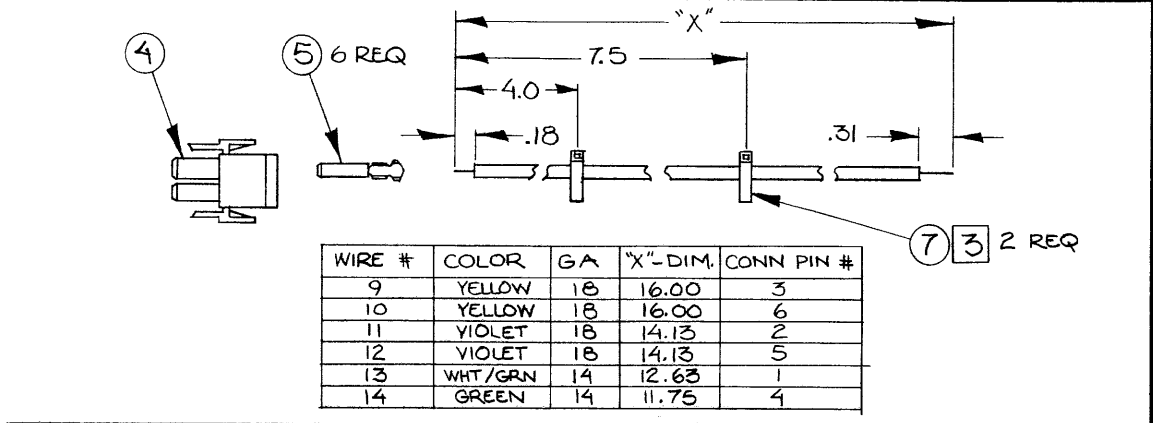
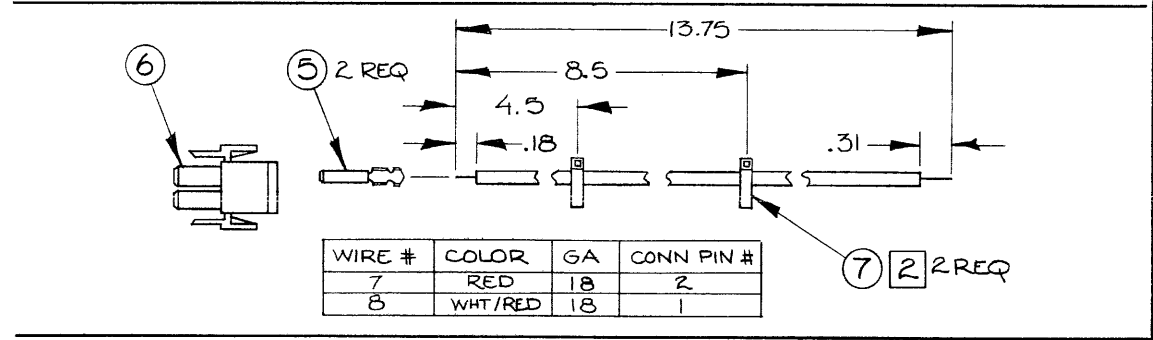
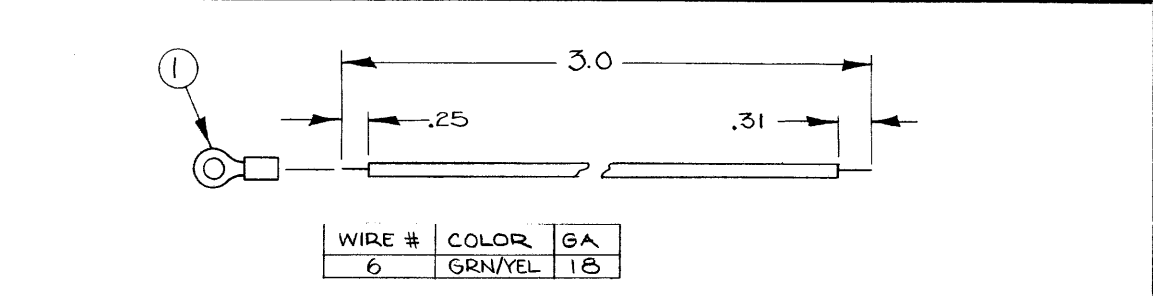
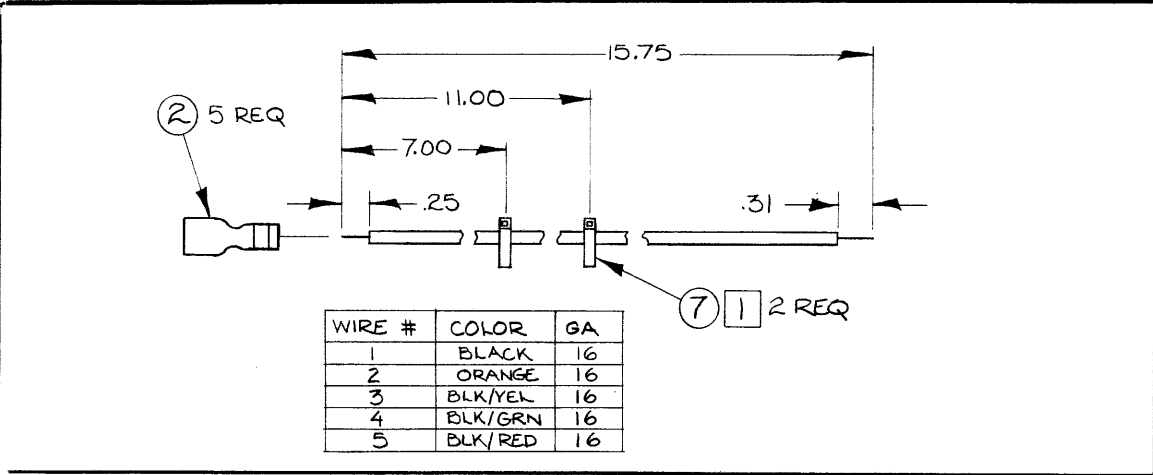


DETAIL A

29	1	TUB WIRE SET	45000-61643		
28	4	#8 LOCKWASHER	3190-0073		
27	1	PCA-FLOPPY DRIVE	45000-66515		
26	1	CABLE-CONTROL	45000-61640		
25	REF	CABLE-POWER SUPPLY	45000-61639		
24	REF	CABLE-FLOPPY, DC POWER	45000-61633		
23	REF	CABLE-AC POWER	45000-61626		
22	1	CABLE-DISPLAY	45000-61616		
21	1	CABLE-KEYBOARD	45000-61601		
20	1	CABLE-FAN	8120-2231		
19	1	CABIN HP 18 1M LG	8120-1833		
18	REF	TUB	7101-0514		
17	7	FAN-TBAX 74 CFM	3160-0311		
16	4	WASHER-FLAT No 5	3050-0716		
15	4	SCREW No 8-32 X .375 PH	2510-0109		
14	6	SCREW No 6-32 X .5 PH L	2360-0121		
13	7	NUT No 4-40 .250 CAF	2260-0001		
12	4	SCREW No 4-40 X 1.875 F	2200-0528		
11	4	LOCKWASHER No 6 EXT	2190-0006		
10	1	LOCKWASHER EXT	2190-0005		
9	6	LOCKWASHER No 4 INT	2190-0004		
8	4	LOCKWASHER No 4 HEL	2190-0003		
7	1	SLIDE, CHASSIS - TOP	1494-0046		
6	1	SLIDE, CHASSIS - BOTTOM	1494-0044		
5					
4					
3	8	NUT No 2-56 .188 AF	0610-0001		
2	8	SCREW No 2-56 X .250 L	0520-0128		
1	2	STANDOFF - HEX	0380-0643		
ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L OWNG. NO.	MAT'L SPEC.

DO NOT SCALE THIS DRAWING
UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES.
TOLERANCES .XX ± .02 .XXX ± .005
SEE CORP. STD. 808

TUB ASSY		HEWLETT PACKARD	
TITLE	45250 A	PART NUMBER	45000-67916
NEXT ASSEMBLY		PART NUMBER	D-45000-67916-1
FINISH	SCALE 1/3		



NOTE:

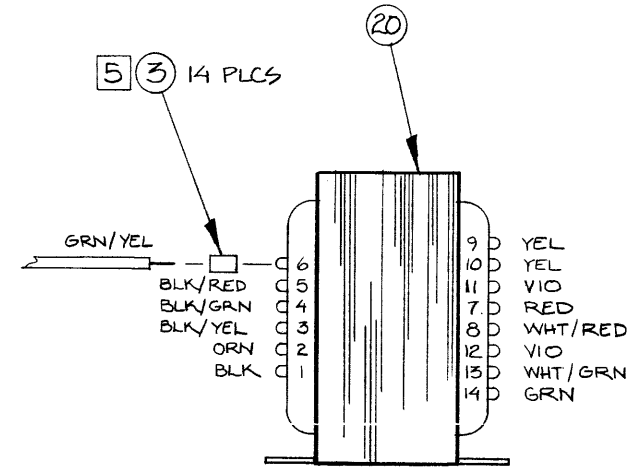
1 TIE WRAP ALL 5 WIRES TOGETHER IN 2 PLACES WITH ITEM 7

2 TIE WRAP BOTH WIRES TOGETHER IN 2 PLACES WITH ITEM 7

3 TIE WRAP ALL 6 WIRES TOGETHER IN 2 PLCS WITH ITEM 7

4 SEND 1.0 FT OF SHRINK TUBING (0890-0765) WITH THE MAIN XFMR SET TO BE USED WHEN INSTALLING THIS SET INTO AN ORIGINAL TUB.

5 CUT SHRINK TUBING TO 3/4 IN. AND PLACE OVER STRIPED END OF EACH WIRE BEFORE SOLDERING



NOTES CONTINUED:

6 WIRE SET (45000-61643) INCLUDES A LONG GRN/YEL WIRE AND FAN CONNECTOR CABLE WHICH ARE NOT IN THIS ASSEMBLY.

ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
20	1	MAIN TRANSFORMER	9100-4054		
19	1.32ft	WIRE-16 AWG BK/YEL	8150-3869		
18	1.32ft	WIRE-16 AWG BK/GRN	8150-3868		
17	1.32ft	WIRE-16 AWG BK/RED	8150-3867		
16	1.32ft	WIRE-16 AWG ORN	8150-3358		
15	.25ft	WIRE-18 AWG GRN/YEL	8150-3284		
14	1.06ft	WIRE-14 AWG WHT/GRN	8150-2709		
13	1.32ft	WIRE-16 AWG BLK	8150-2605		
12	.98ft	WIRE-14 AWG GRN	8150-2466		
11	2.36ft	WIRE-18 AWG VIO	8150-0382		
10	1.15ft	WIRE-18 AWG WHT/RED	8150-0246		
9	2.67ft	WIRE-18 AWG YEL	8150-0089		
8	1.15ft	WIRE-18 AWG RED	8150-0082		
7	6	CABLE TIE	1400-0249		
6	1	CONN UTILITY	1251-4782		
5	8	CONN-F CONT UTIL	1251-3911		
4	1	CONN-F UTIL 6 PIN	1251-3817		
3	20ft	SHRINK TUBING	0890-0765		
2	5	LUG-CRP 16-14 .25F	0362-0561		
1	1	LUG-CRP 18 RT 6	0362-0321		

DO NOT SCALE THIS DRAWING

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

TOLERANCES .XX ± .02 .XXX ± .005

SEE CORP. STD. 608

MAIN XFMR SET

TITLE: SERVICE ONLY

HEWLETT PACKARD

45000-68816

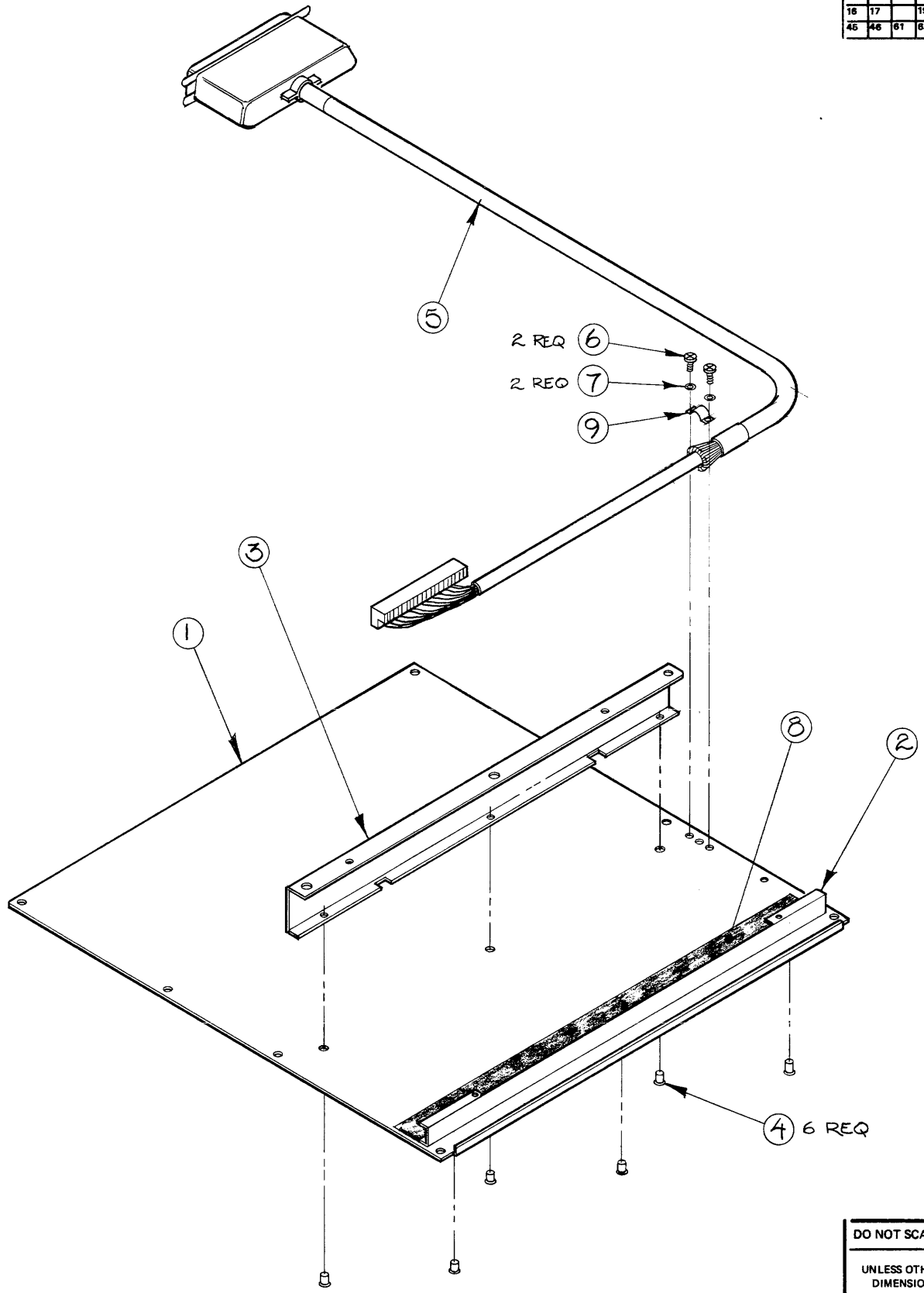
PART NUMBER

6-45000-68816-1

SCALE: _____

SHEET 1 OF 1

ENGINEERING RESPONSIBILITY <input checked="" type="checkbox"/>														SERIAL <input checked="" type="checkbox"/>														C-45000-68835-1										
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	SYM A														REVISIONS		APPROVED	DATE					
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	AS ISSUED		J.P.	



ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
9	1	CABLE CLAMP	1400-1107		
8	424mm	VINYL TAPE	0460-0119		
7	2	WSHR #6 FLAT	3050-0010		
6	2	SCREW 6-32	2360-0113		
5	1	CABLE-MATRIX	45000-61635		
4	6	RIVET-BLIND	0361-1051		
3	1	SHIELD-KYBD, REAR	45000-00606		
2	1	SHIELD-KYBD, FRONT	45000-00605		
1	1	SHIELD-KYBD, LOWER	45000-00607		

DO NOT SCALE THIS DRAWING
 UNLESS OTHERWISE SPECIFIED,
 DIMENSIONS ARE IN INCHES.
 TOLERANCES .XX ± .02 .XXX ± .005
 SEE CORP. STD. 008

HEWLETT PACKARD	
TITLE KYBD MTRX SERVICE CBL	
NEXT ASSEMBLY SERVICE ONLY	PART NUMBER 45000-68835
FINISH —	SCALE 1/3
C-45000-68835-1	

ENGINEERING RESPONSIBILITY															SEPIA									
0	1	2	3	4	6	8	9	11	12	14	15	16	17	19	21	22	23	25	29	30	32	33	38	43
45	46	61	63																					

B-45000-90312-1		APPROVED	DATE
SYM	REVISIONS		
A	AS ISSUED	RS	7-11-78
B	DELETE SAE LINE FILTER	37-4077	7-11-78
C	MODIFY CRKT BREAKER	37-4086	7-27-78
D	DELETE LTOBT P25, REPLACE W/9100-0466	HB/SX	8-4-80

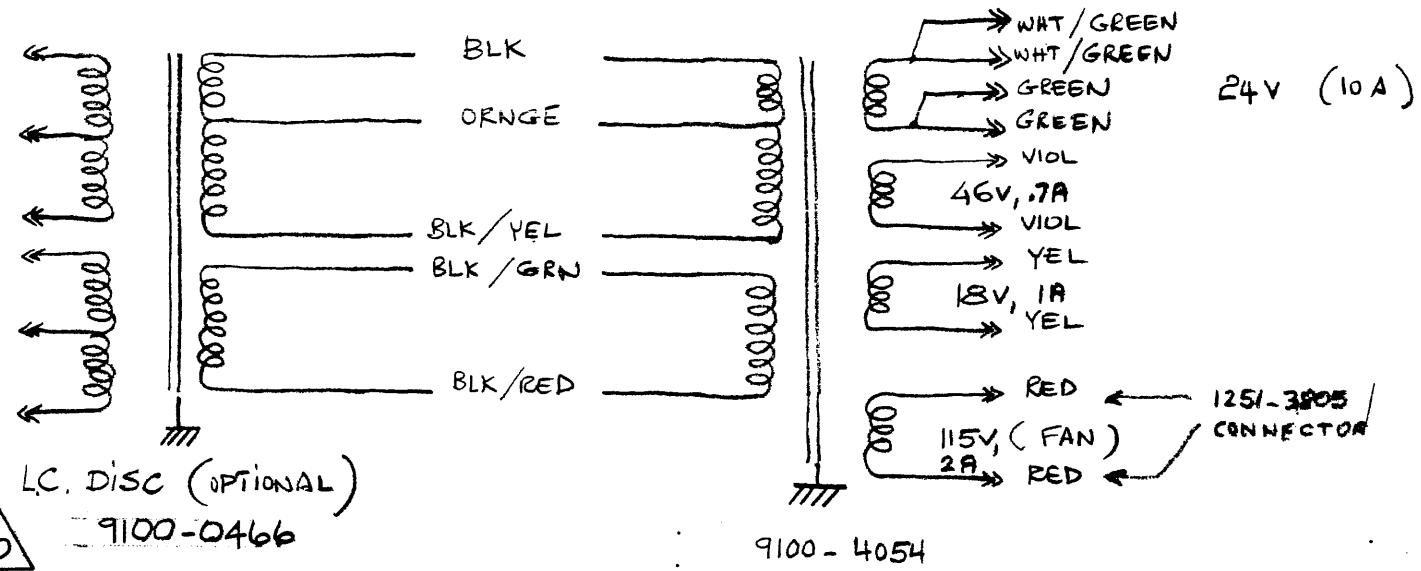
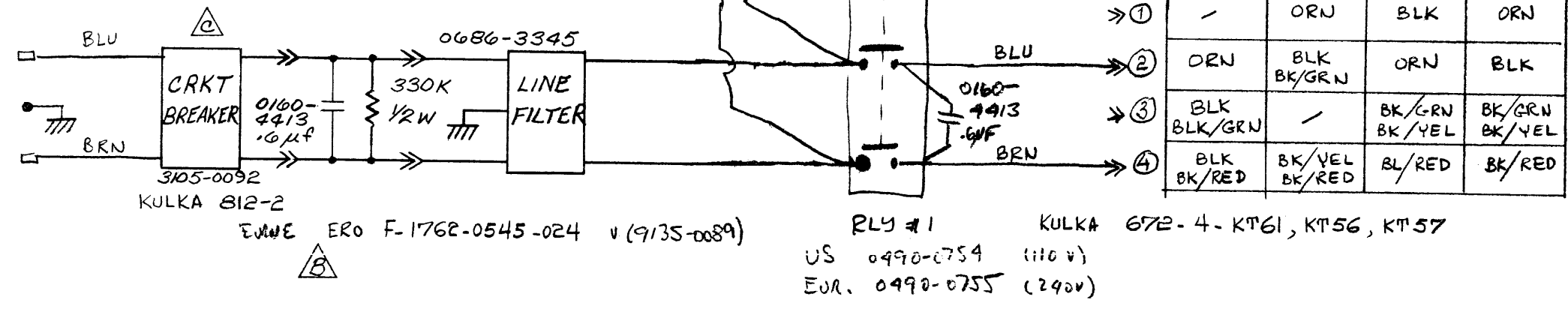
100V, 6.7A
120V, 5.6A
220V, 3.1A
240V, 2.8A

EUROPE-3101-2330

US MICROSWITCH
V3-1101-DB

1390-0449
ON/OFF

VOLTAGE SELECTOR



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES

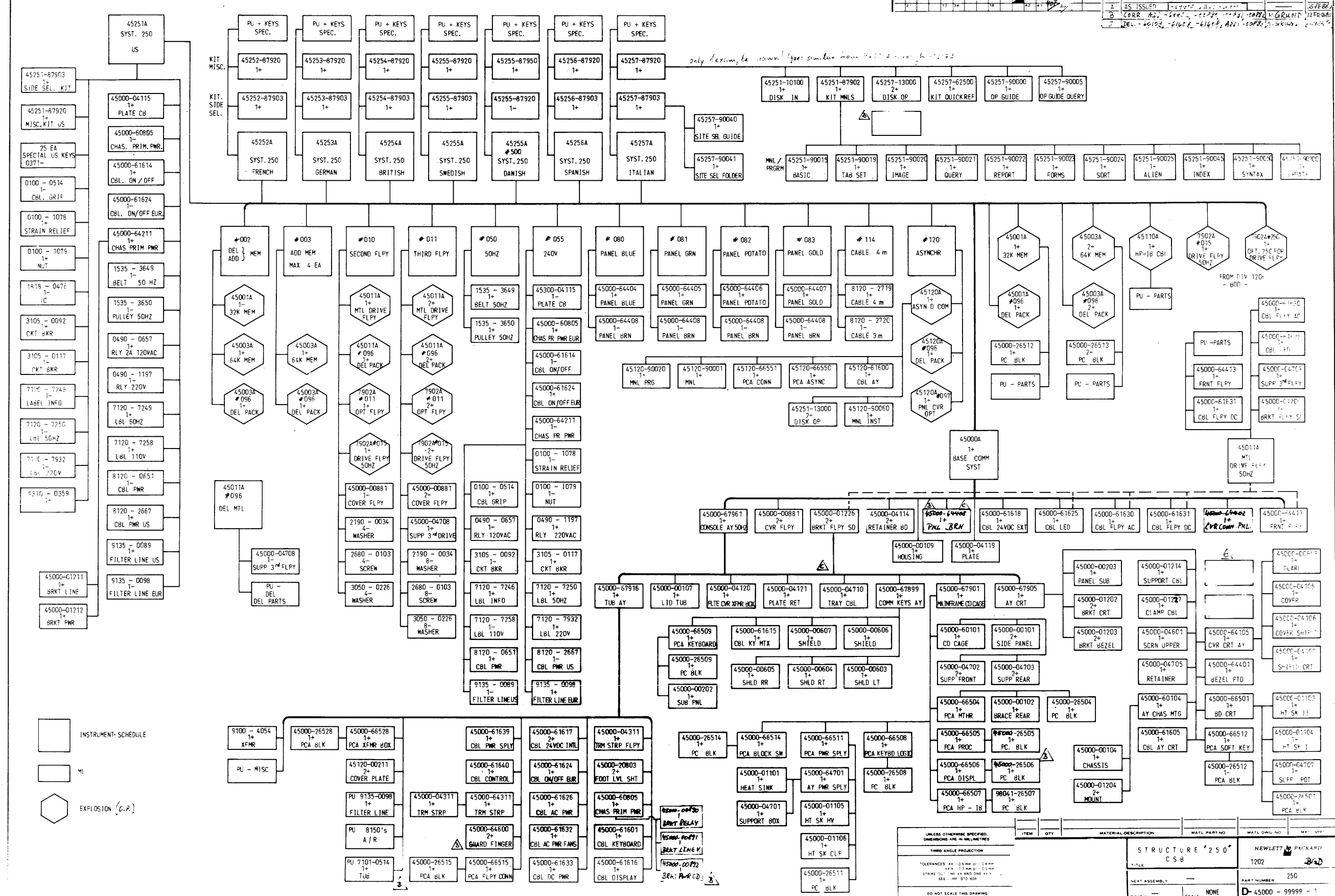
THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
XX.X ± 0.2 mm or ± 0.1 mm
STRIKE OUT ONE XX AND ONE XX.X
SEE CORP. STD. 608

DO NOT SCALE THIS DRAWING

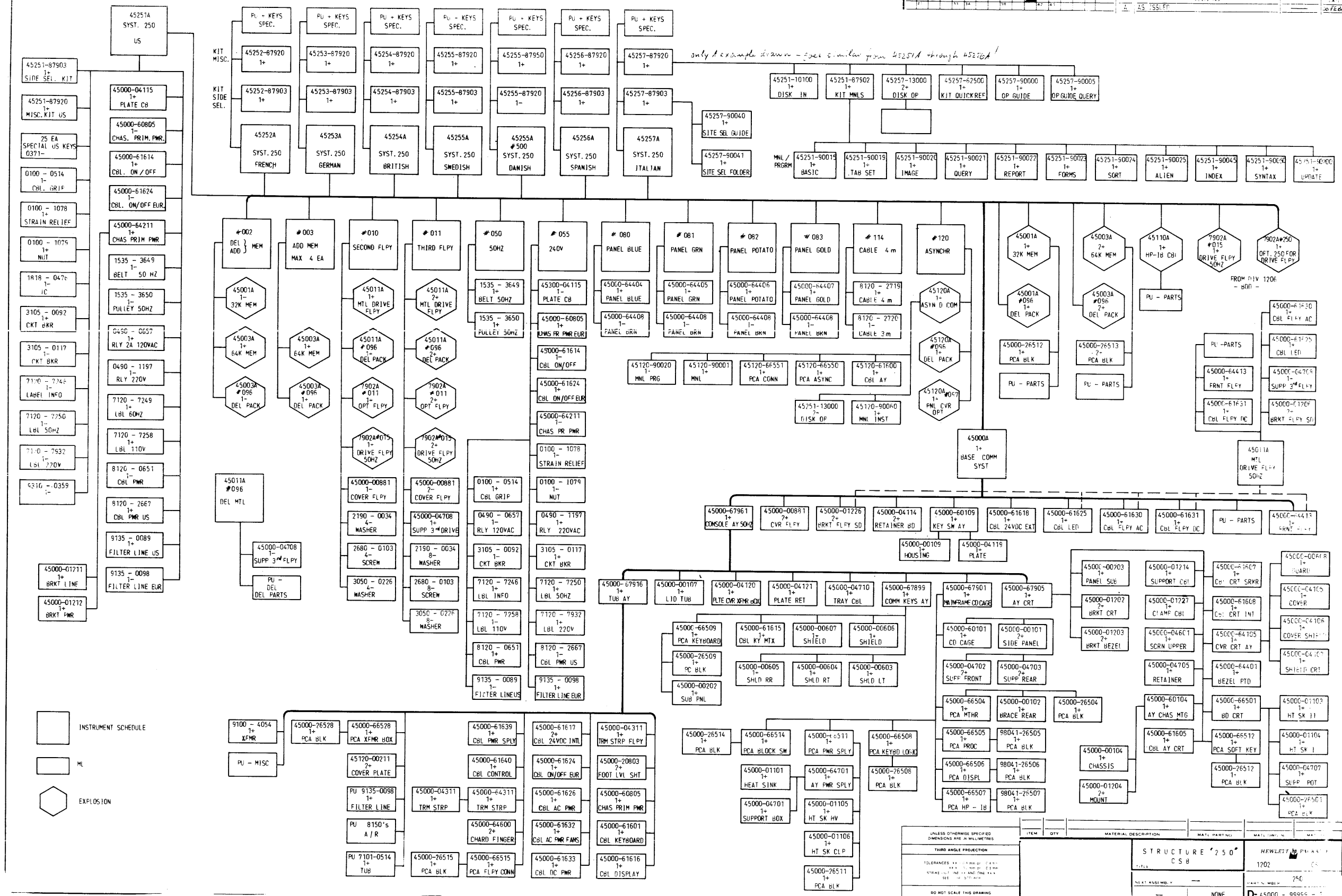
ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
		SAM PRIMARY WIRING			
		TITLE	HEWLETT PACKARD		
		NEXT ASSEMBLY 45251A	PART NUMBER		
		FINISH	SCALE		
			B-45000-90312-1		

ENGINEERING RESPONSIBILITY		REVISED	
DESIGNED BY	DATE	BY	DATE
ISSUED BY	DATE	BY	DATE
CHECKED BY	DATE	BY	DATE
APPROVED BY	DATE	BY	DATE



[] INSTRUMENT - SCHEDULE
 [] M
 [] EXPLOSION (G.P.)

ITEM	QTY	MATERIAL DESCRIPTION	MATL PART NO	MATL DWG NO	MATL UNIT
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS					
THIRD ANGLE PROJECTION					
TOLERANCES: ALL DIMENSIONS ± 0.25 mm (0.010 in) UNLESS OTHERWISE SPECIFIED					
STRAKE OUT THE FIRST AND LAST DIGIT OF THE PART NUMBER					
DO NOT SCALE THIS DRAWING					
STRUCTURE 250			HEWLETT PACKARD		
TITLE			1202		
NEXT ASSEMBLY			PART NUMBER 250		
FINISH			SCALE NONE		
			D-45000-99999-1		



only a sample shown - see similar from 45251A through 45257A

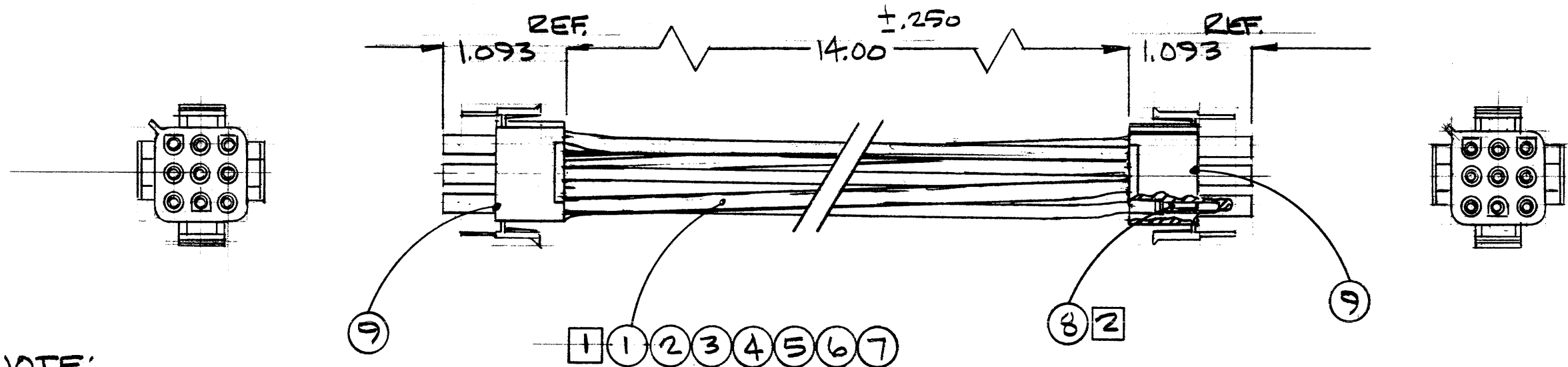
[Rectangle] INSTRUMENT SCHEDULE
 [Hexagon] EXPLOSION
 [Circle] MISC.

ITEM	QTY	MATERIAL DESCRIPTION	MATL PART NO.	MATL UNIT	MATL
THIRD ANGLE PROJECTION					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS					
TOLERANCES: ± 0.130 mm (0.005 in) ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED					
STRAIGHTENING AND FINISHING: SEE THE DRAWING					
DO NOT SCALE THIS DRAWING					
STRUCTURE 250			HEWLETT PACKARD		
1202			1202		
NEXT ASSEMBLY			PART NUMBER		
FINISH			NONE		
D-45000-99999			250		

REF DWGS: A-2 (WIRE LIST)

ENGINEERING RESPONSIBILITY <input checked="" type="checkbox"/>												SEPIA <input type="checkbox"/>			
0	1	2	3	4	6	8	9	11	12	14	15	SYM			
16	17	19	21	22	23	25	29	30	32	33	38	43	A AS ISSUED		
45	46	61	63	67									APPROVED		
												DATE			
												KJ/MCA 4-18-80			

B-45012-61600-1



NOTE:
 1 PRE-CUT ALL LEADS TO 15.00 INCHES AND STRIP EACH END TO .25 INCH.
 2 INSERT COLOR CODE AS SPECIFIED BELOW

PIN NO.	LEAD COLOR
1	ORN
2	RED
3	W/RED
4	W/RED
5	BLK
6	BLK
7	W/GRN
8	W/BRN
9	BLU

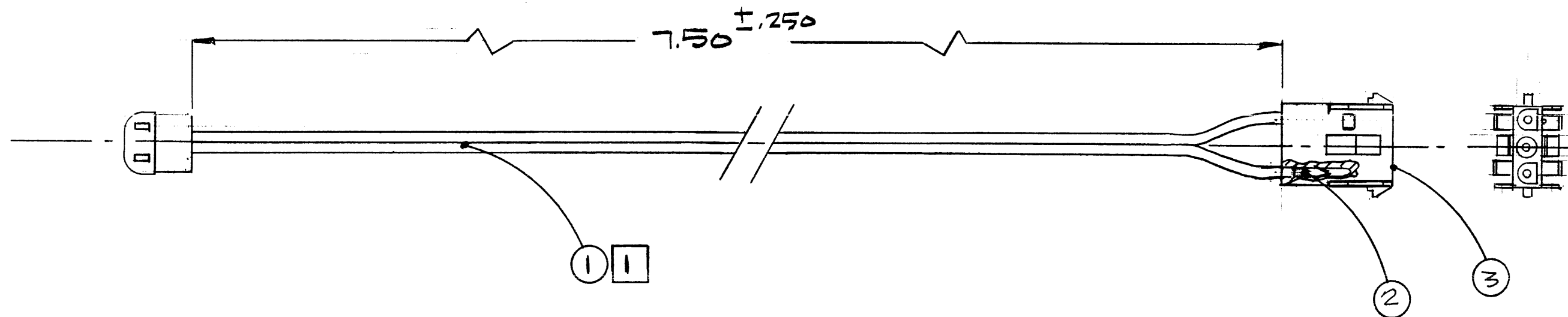
ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
9	2	CONNECTOR, 9PIN, M	1251-4752	B-1	
8	18	CONTACT, COND, F	1251-3711	B-1	
7	1.25FT	WIRE, ELEZ, 18 GA W/GRN	8150-2899		
6	1.25FT	WIRE, ELEZ, 18 GA W/BRN	8150-2896		
5	1.25FT	WIRE, ELEZ, 18 GA BLU	8150-2893		
4	1.25FT	WIRE, ELEZ, 18 GA ORN	8150-2892		
3	1.25FT	WIRE, ELEZ, 18 GA RED	8150-2891		
2	2.5FT	WIRE, ELEZ, 18 GA BLK	8150-2890		
1	2.5FT	WIRE, ELEZ, 18 GA W/RED	8150-2649		

DO NOT SCALE THIS DRAWING UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES .XX ± .02 .XXX ± .005 SEE CORP. STD. 608	CABLE ASSY. DC POWER		HEWLETT PACKARD
	45012A		
	NEXT ASSEMBLY		PART NUMBER
	FINISH	NONE	B-45012-61600-1

ENGINEERING RESPONSIBILITY												SEPIA					
0	1	2	3	4	6	8	9	11	12	14	15						
16	17	19		21	22	23	25	29	30	32	33	38	43				
45	46	61	63	67													

B-45012-61601-1

SYM	REVISIONS	APPROVED	DATE
A	AS ISSUED	KJ/mcm	4-18-80



NOTE:
 1 PRE-CUT CABLE TO 8.00 INCHES REF. FROM BASE OF EXISTING FAN PLUG, STRIP BOTH ENDS TO .25 INCH.

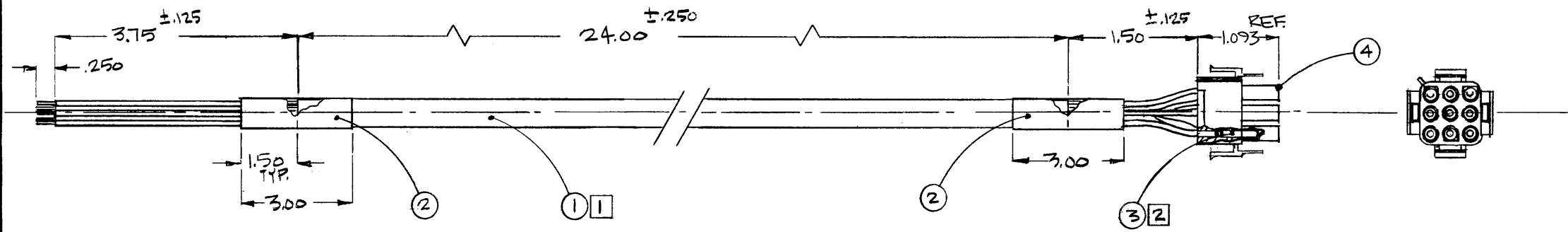
ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
3	1	CONNECTOR, 3 PIN	125-5106	A-1	
2	2	CONN. CONTACT, M	125-4747	A-1	
1	1	CORSET, FAN	8120-1478		

DO NOT SCALE THIS DRAWING
 UNLESS OTHERWISE SPECIFIED,
 DIMENSIONS ARE IN INCHES.
 TOLERANCES .XX ± .02 .XXX ± .005
 SEE CORP. STD. 608

CABLE ASSY FAN POWER TITLE		HEWLETT PACKARD	
45012A NEXT ASSEMBLY		45012-61601 PART NUMBER	
FINISH NONE		SCALE NONE	
		B-45012-61601-1	

REF DWG: A-2 (WIRE LIST)

ENGINEERING RESPONSIBILITY														SYM		REVISIONS		APPROVED		DATE																						
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	A		AS ISSUED		KJ/MCM		4-18-80																				
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50								



NOTE:
 1 PRE-CUT CABLE (ITEM 1) TO 30.00 INCHES, ON ONE END REMOVE 4.00 INCHES OF JACKET AND SHIELD, ON THE OPPOSITE END REMOVE 2.00 INCHES OF JACKET AND SHIELD, STRIP LEADS .250 INCH TYP. 18 PLACES.
 2 INSERT COLOR CODE AS SPECIFIED BELOW

PIN NO.	LEAD COLOR
1	GRAY
2	RED
3	BLUE
4	VIO
5	ORN
6	YEL
7	GRAY
8	RED
9	BLUE

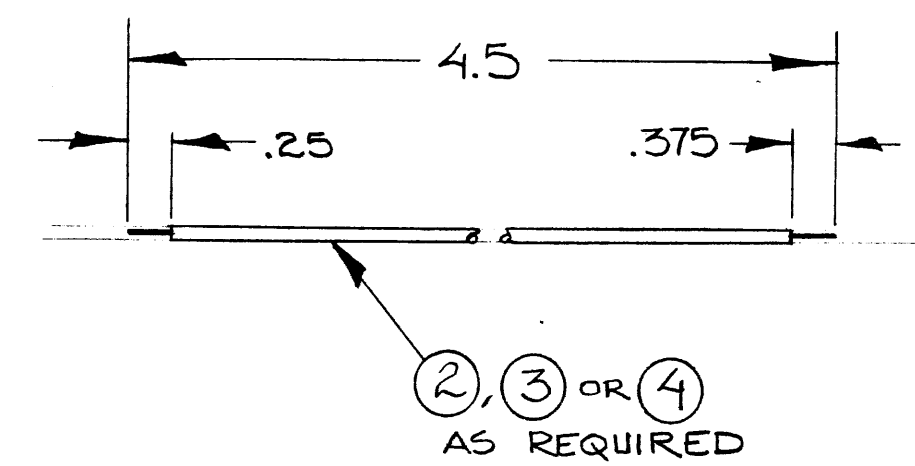
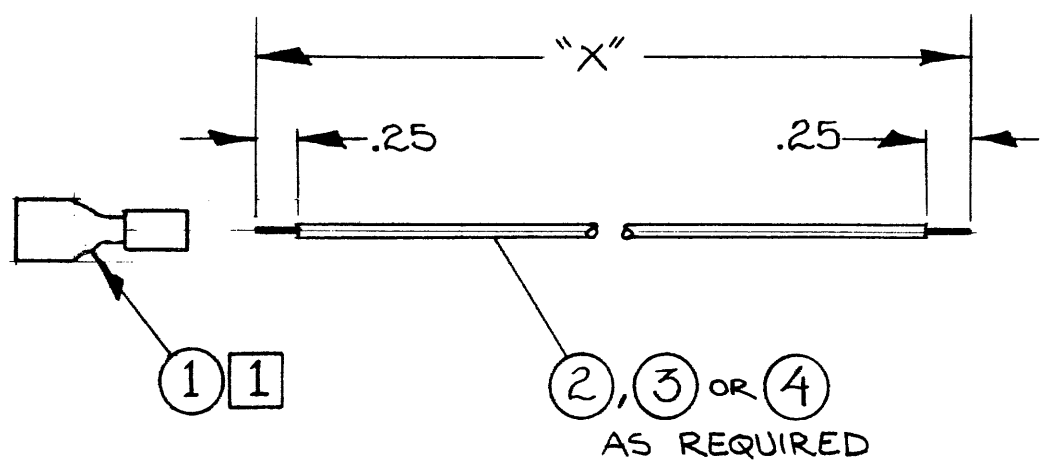
ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L. PART NO.	MAT'L. DWG. NO.	MAT'L. SPEC.
4	1	CONNECTOR, 9 PIN, M	1251-4752	B-1	
3	9	CONTACT, CONN, F	1251-3911	B-1	
2	25FT	TUBING, SHRINKABLE	0890-0291		
1	25FT	CABLE SHIELDED	8120-2954	A-1	

DO NOT SCALE THIS DRAWING	DRAWN BY R JOHNSON	DATE 3-11-80	TITLE CABLE ASSY AC POWER	HEWLETT PACKARD
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES .XX ± .02 .XXX ± .005	ENGINEER K JOHNSON	DATE 4-18-80	PART NUMBER 45012-61602	
	RELEASE TO PROD. M.A. Callahan	DATE 5/23/80	FINISH NONE	SCALE C-45012-61602-1
	SUPERSEDES DWG			

ENGINEERING RESPONSIBILITY												SERIA			
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47

SYM		REVISIONS		APPROVED	DATE
A		AS ISSUED		AA/SL	11-26-80

B-45012-61608-1



WIRE NO.	COLOR	X
1	RED	6.0
2	RED	6.5
3	RED	3.5
4	BLUE	6.5
5	BLUE	6.0
6	BLUE	5.5
7	BLUE	6.0

WIRE NO.	COLOR
8	BLACK
9	RED
10	BLUE

NOTES:

- 1 CRIMP ITEM (1) TO WIRES 1 THRU 7
- 2 ALL 10 WIRES SHOULD BE TIE WRAPPED TOGETHER AND PLACED IN A PLASTIC BAG

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
4	240ft	WIRE - 18 AWG, BLU	8150-2893		
3	1.75ft	WIRE - 18 AWG, RED	8150-2891		
2	.40ft	WIRE - 18 AWG, BLK	8150-2890		
1	7	LUG-CRP 22-18 .25 F	0362-0467		

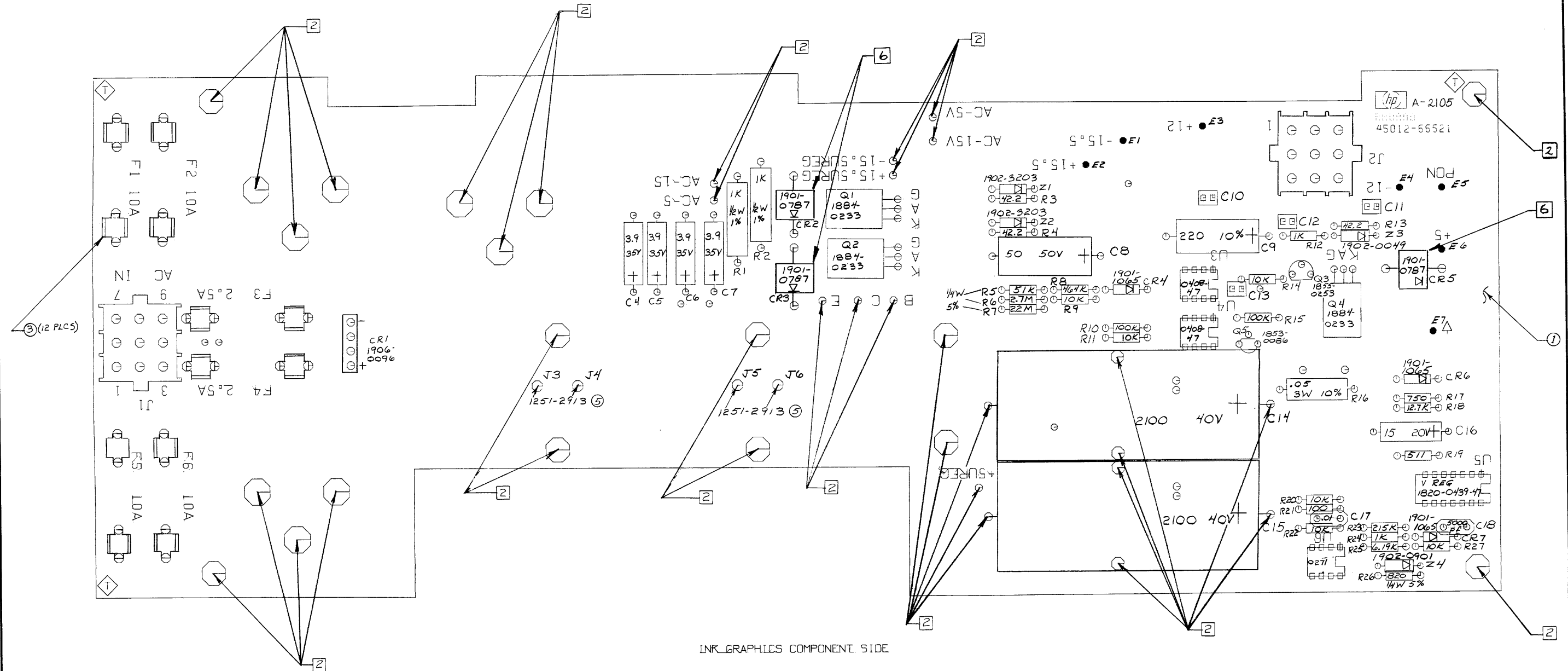
DO NOT SCALE THIS DRAWING
 UNLESS OTHERWISE SPECIFIED,
 DIMENSIONS ARE IN INCHES.
 TOLERANCES .XX ± .02 .XXX ± .005
 SEE CORP. STD. 608

WIRE SET -
 POWER SUPPLY
 TITLE
 45012-66521
 NEXT ASSEMBLY
 FINISH — SCALE NONE

HEWLETT PACKARD
 45012-61608
 PART NUMBER
 B-45012-61608-1

ENGINEERING RESPONSIBILITY														REVISE		APPROVED		DATE	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	BY	REVISION	APPROVED	DATE
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	B	REDRAWN PROC 45012A "A"	KJ/MCM	5-13-80
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	C	PER R07472250, DATE CODE WIA 2016,	MS/MCM	9-11-80
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	D	ADD NOTE IN R11 W/AG 5.76K N3410K		
																E	ADD ITEMS 24, 25, 26, REMOVE ITEMS 27, 28		
																	DELETE ITEMS 26, 27, 28, 32 ADD 37	TH/LST	12-4-80
																	PER R0167-0029, DATE CODE W/AS 2024	TH/L.S.S.	1-26-81

← DIRECTION THRU WAVE SOLDER →



INK_GRAPHICS COMPONENT SIDE

NOTES:

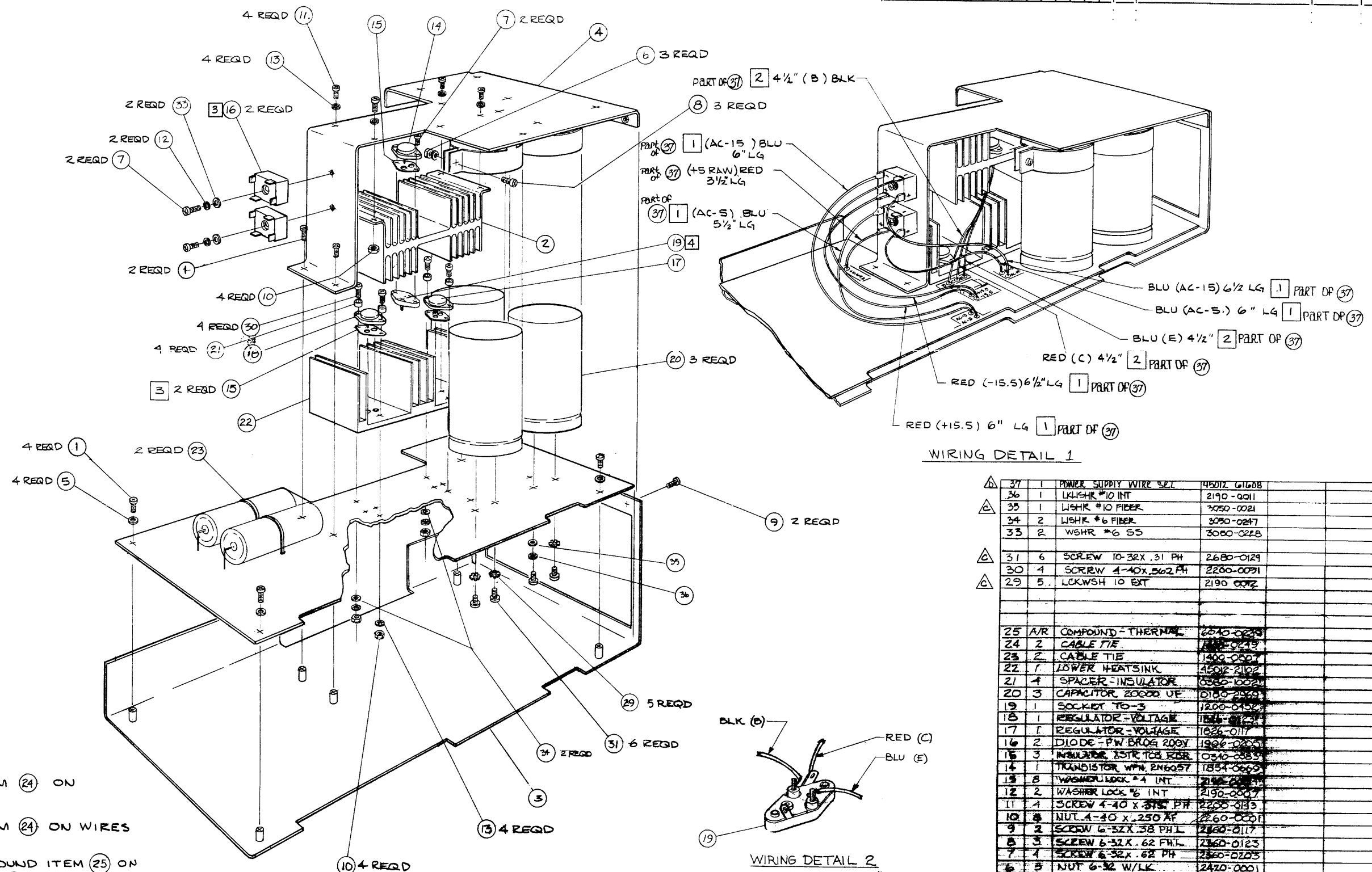
1. UNLESS OTHERWISE SPECIFIED
ALL RESISTANCE IN OHMS
ALL RESISTORS ARE 1/8W 1%
ALL CAPACITANCE IN MICROFARADS
ALL CAPACITORS ARE .1 50V
ALL ICs ARE 1826-
2. MASK AS INDICATED PRIOR TO
WAVE SOLDER
3. MARK DATE CODE AND MADE IN USA
4. INSTALL ITEM (4) NEAR LOGO
WHEN AT THE MECHANICAL INSPECTION
STATION
5. SCHEMATIC C-45012-66521-6
6. INSURE THESE PARTS DO NOT
TOUCH PC BOARD

ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG. NO.	MAT'L SPEC.
5	4	CONN SGL	1251-2913		
4	1	LABEL-WARRANTY	7120-6830		
3	12	FUSEHOLDERS	2110-0269		
2	2	CONN J1 & J2	1251-5339		
1	1	PC BOARD ETCHED	45012-66521		

DO NOT SCALE THIS DRAWING		POWER SUPPLY ASSEMBLY		HEWLETT-PACKARD PERM. PRINT	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.		TITLE 45012A		PART NUMBER 45012-66521	
TOLERANCES .XX ± .02 .XXX ± .005		NEXT ASSEMBLY		PART NUMBER D-45012-66521-1	
SEE CORP. STD. 808		SCALE 2X		SHEET 1 OF 2	

REF DWG: A-B (WIRE LIST)

ENGINEERING RESPONSIBILITY															REVISED		DATE		
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	BY: SEE SHEET 1		APPROVED: _____	
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47				



WIRING DETAIL 1

37	1	POWER SUPPLY WIRE SET	45012-61608	
36	1	LKWSHR #10 INT	2190-0011	
35	1	LWSHR #10 FIBER	3050-0021	
34	2	LWSHR #6 FIBER	3050-0247	
33	2	WSHR #6 SS	3080-0228	
31	6	SCREW 10-32X .31 PH	2260-0129	
30	4	SCREW 4-40X .562 PH	2260-0091	
29	5	LCKWSH 10 EXT	2190-0012	
25	A/R	COMPOUND - THERMAL	6040-0239	
24	2	CABLE TIE	1400-0249	
23	2	CABLE TIE	1400-0507	
22	1	LOWER HEATSINK	45012-2102	
21	4	SPACER - INSULATOR	0380-10024	
20	3	CAPACITOR 20000 UF	0180-2160	
19	1	SOCKET TO-3	1200-0152	
18	1	REGULATOR - VOLTAGE	1834-0123	
17	1	REGULATOR - VOLTAGE	1834-0117	
16	2	DIODE - PN BR04 200V	1906-0200	
15	3	INSULATOR XSTR TCR RDR	0340-0283	
14	1	TRANSISTOR WPM 2N6057	1834-0223	
13	8	WASHER LOCK #4 INT	2190-0007	
12	2	WASHER LOCK #6 INT	2190-0007	
11	4	SCREW 4-40 X .312 PH	2260-0123	
10	4	NUT 4-40 X .250 NF	2260-0501	
9	2	SCREW 6-32X .38 PH L	2260-0117	
8	3	SCREW 6-32X .62 PH L	2260-0123	
7	4	SCREW 6-32X .62 PH	2260-0203	
6	3	NUT 6-32 W/LK	2420-0001	
5	4	WASHER #6 BRK	3050-0066	
4	1	TOP COVER	45012-04101	
3	1	LOWER COVER	45012-04102	
2	1	UPPER HEATSINK	45012-21101	
1	6	SCREW #6-32 X .500 PH L	2260-0121	

- NOTE:
- 1 USE CABLE TIE ITEM (24) ON WIRES
 - 2 USE CABLE TIE ITEM (24) ON WIRES
 - 3 USE THERMAL COMPOUND ITEM (25) ON ON ITEM (14) (16) (17) & (18)
 - 4 SOCKET MUST MOUNT FLUSH WITH LOWER SURFACE OF HEATSINK

DO NOT SCALE THIS DRAWING

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

TOLERANCES .XX ± .02 .XXX ± .005

SEE COMP. STD. 608

POWER SUPPLY ASSEMBLY PERM. PRINT

45012A

HEWLETT-PACKARD

45012-66521

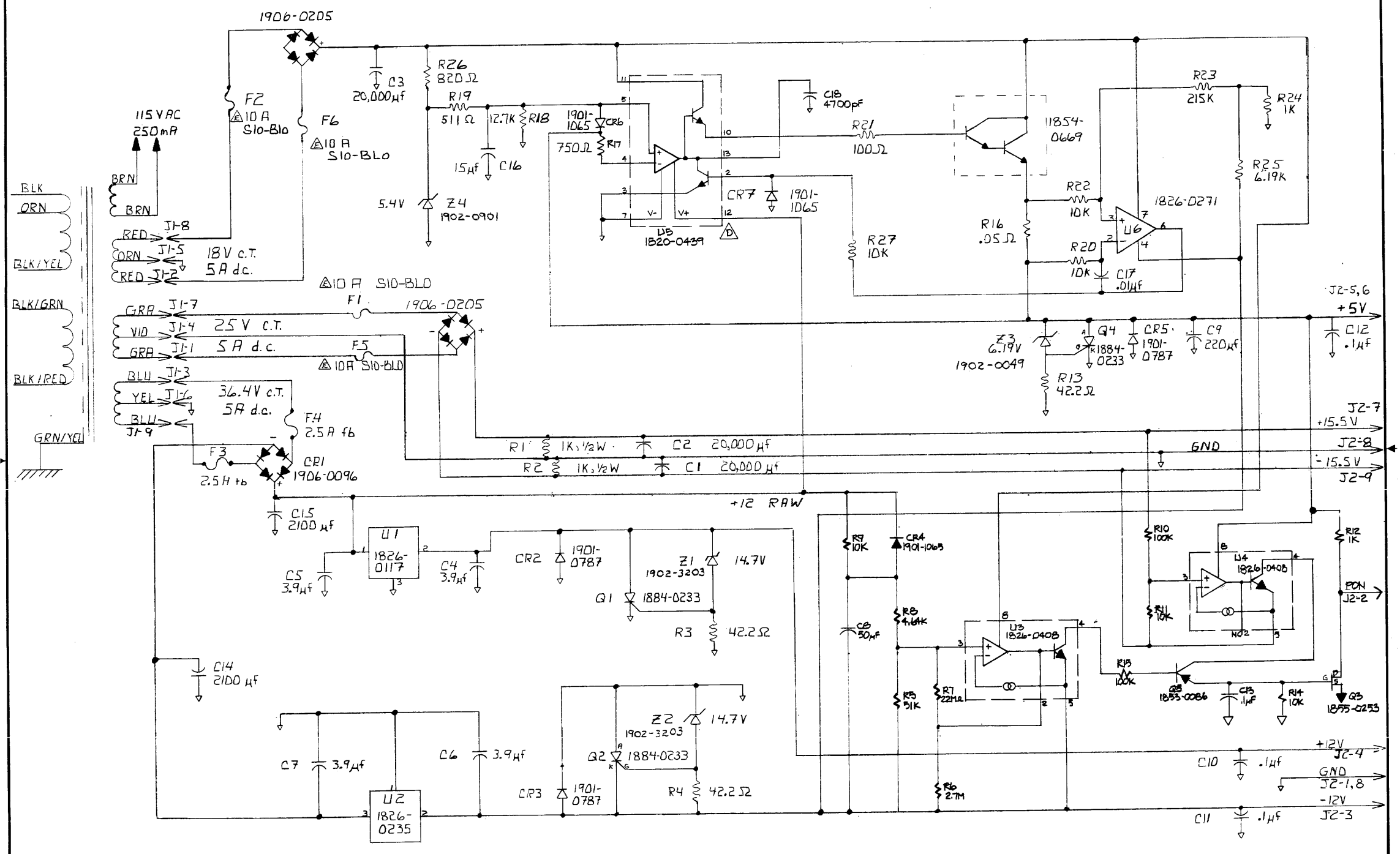
45012-66521-1

SCALE: NONE

SHEET 7 OF 7

ENGINEERING RESPONSIBILITY															
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	

C-45012-66521-6	
SYMBOL	REVISIONS
C	REDRAWN PER PLO 47-2250, DATE CODE 2024
D	REDRAWN US 1820-0438 WAG 1826-0049
E	FL 2.5+6 CHANGED PER PLO 47-2024, DATE CODE 2105
APPROVED	DATE
MB/MCM	8-7-85
MB/MCM	8-27-80
TH/J.S.	1-26-81



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
 XX.X ± 0.2 mm or ± 0.1 mm
 STRIKE OUT ONE XX AND ONE XX.X
 SEE CORP. STD. 608

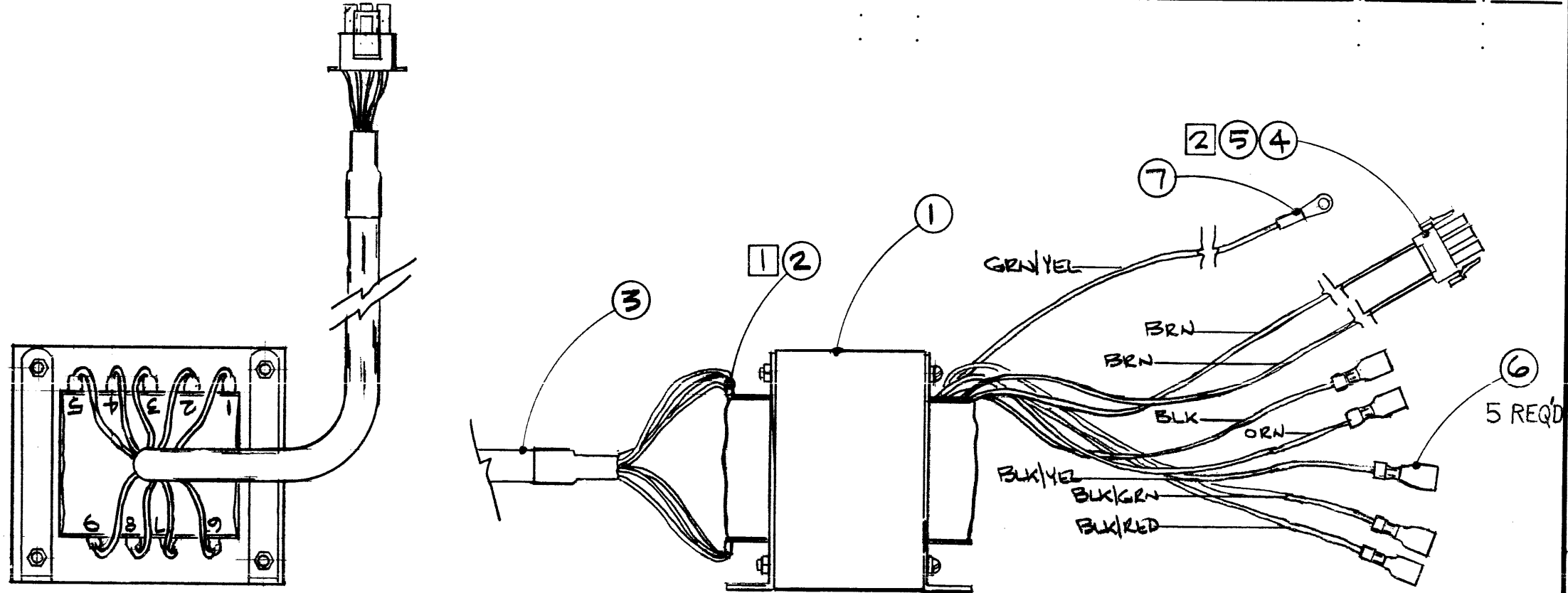
DO NOT SCALE THIS DRAWING

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L. PART NO.	MAT'L. DWG. NO.	MAT'L. SPEC.
POWER SUPPLY SCHEMATIC					
TITLE			HEWLETT-PACKARD		
45012A			45012-66521		
NEXT ASSEMBLY			PART NUMBER		
			C-45012-66521-6		
FINISH		SCALE			

ENGINEERING RESPONSIBILITY															SEPIA									
0	1	2	3	4	6	8	9	11	12	14	15	16	17	19	21	22	23	25	29	30	32	33	38	43
45	46	61	63	67																				

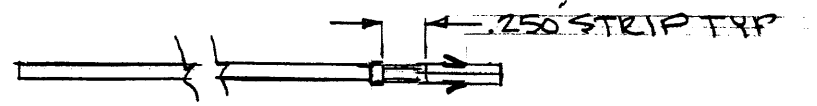
SYM		REVISIONS		APPROVED	DATE
A		AS ISSUED		KJ/MCM	4-17-80

B-45012-67902-1



NOTE:

- 1 CUT SHRINK TUBING (ITEM 2) INTO 8 PCS. .562" LONG INSERT OVER EACH LEAD ON AC POWER CABLE (ITEM 3) HOOK UP AND SOLDER EACH LEAD TO THE DESIGNATED TERMINAL LUGS AS SPECIFIED BELOW, AFTER THIS IS ACCOMPLISHED, INSERT SHRINK TUBING OVER EXPOSED LUG AND LEAD JACKET, SHRINK IN PLACE.
 - A) BLU LEADS TO TERMINALS 1 & 3
 - B) RED LEADS TO TERMINALS 4 & 5
 - C) GRAY LEADS TO TERMINALS 7 & 9
 - D) YEL LEAD TO TERMINAL 2
 - E) ORN LEAD TO TERMINAL 6
 - F) VIO LEAD TO TERMINAL 8
- 2 CRIMP BRN LEADS TO CONNECTOR (ITEM 5) AS SHOWN BELOW AND INSERT INTO THE OUTSIDE POSTS OF THE 3 PIN CONNECTOR (ITEM 4)

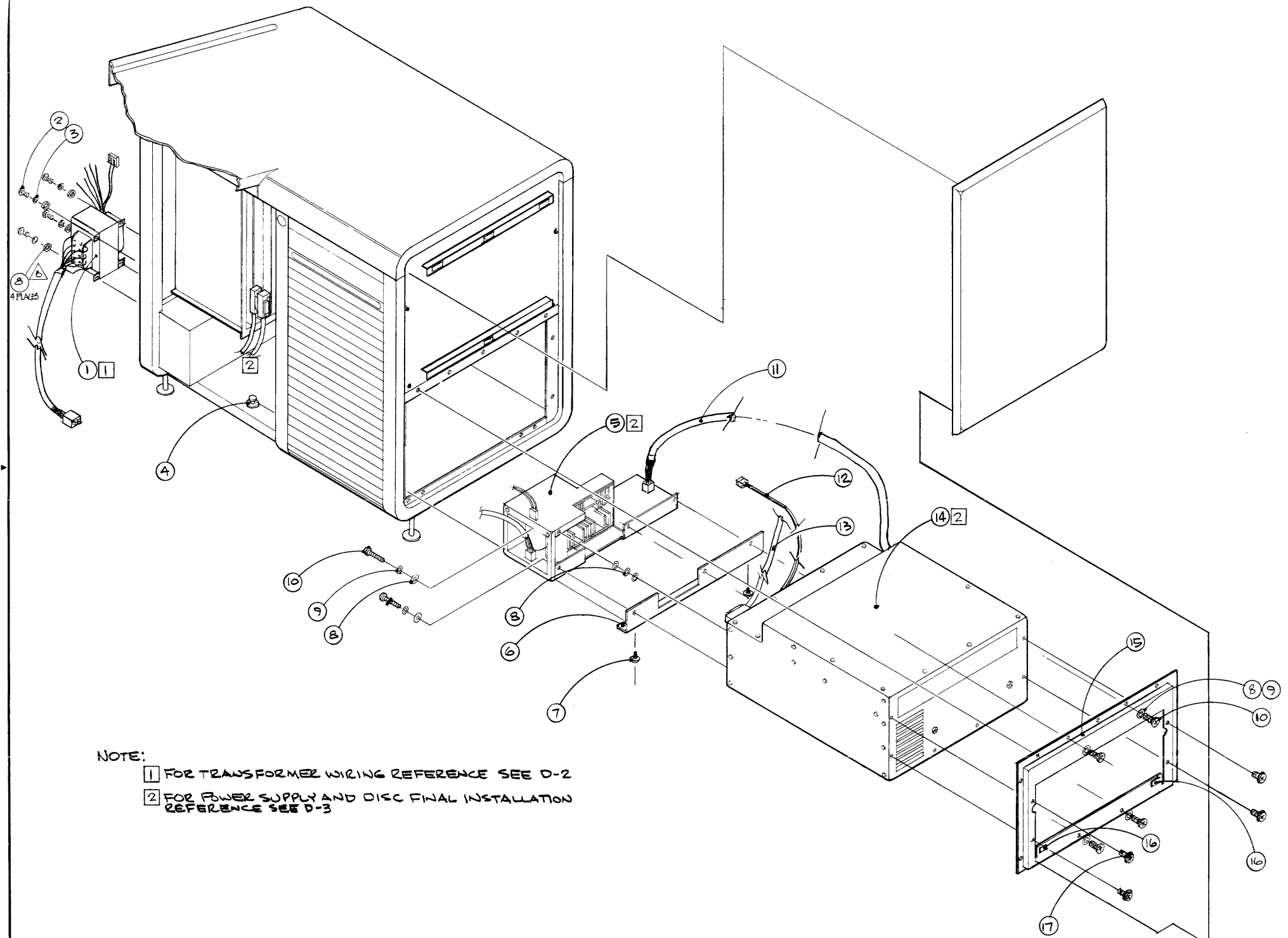


7	1	LUG, CRIMP (22-18RT6)	0362-0321		
6	5	LUG, CRIMP (22-18)	0362-0467		
5	2	CONNECTOR, FEMALE	1251-3911		
4	1	CONNECTOR, 3 PIN	1251-5107		
3	1	AC POWER CABLE	45012-61602	C-1	
2	.38 FT	TUBING, HEATS. (BLK) .187D	0890-0029		
1	1	POWER TRANSFORMER	9100-0466	A-1	
ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.

DO NOT SCALE THIS DRAWING
 UNLESS OTHERWISE SPECIFIED,
 DIMENSIONS ARE IN INCHES.
 TOLERANCES .XX ± .02 .XXX ± .005
 SEE CORP. STD. 608

TITLE		HEWLETT PACKARD	
TRANSFORMER ASSY.		45012-67902	
NEXT ASSEMBLY		PART NUMBER	
45012A		B-45012-67902-1	
FINISH		SCALE	
		1/2	

ENGINEERING RESPONSIBILITY															SEPA		DATE		D-45012-9000		
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15			APPROVED		DATE	
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			BYM		REVISIONS	
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47			A AS ISSUED		KJ/MCM 5-13-80	
																	B ITEM B QUANT. WAS 11, ITEM 11* WAS -64600		MB/MCM 8-7-80		
																	C ITEM B WAS 10833A P.C.#67-0073		V/ J.S. 7/22/81		



NOTE:
 1 FOR TRANSFORMER WIRING REFERENCE SEE D-2
 2 FOR POWER SUPPLY AND DISC FINAL INSTALLATION REFERENCE SEE D-3

18	2	CABLE TIE	1400-0245		
7	4	SCREW, PH. 6-32X.38	2360-0117		
16	1	VELCRO - HOOK	0510-0660		
15	1	LC DISC COVER	7101-0515		
14	1	12MBYTE FIXED DISC	7910K		
13	1	1M HP-1B CABLE	5060-9455		
12	1	FAN POWER CABLE	45012-6160		
11	1	DN POWER CABLE	45012-6160		
10	1	SCREW, PH. 10-32X.50	2150-0103		
9	8	LOCKWASHER NO. 8	2150-0034		
8	15	WASHER PLATE NO. 10	3050-0019		
7	2	HOLE PLUG (BUTTON)	1500-0090		
6	1	LC D MOUNTING PLATE	1400-0840		
5	1	POWER SUPPLY ASSY	45012-64100		
4	2	MOUNTING STUD	1350-0445		
3	4	LOCKWASHER NO. 8	2150-0017		
2	4	SCREW, PH. 8-32X.38	2510-0103		
1	1	TRANSFORMER ASSY	45012-67902		
ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L. PART NO.	MAT'L. DWG. NO.	MAT'L. SPEC.

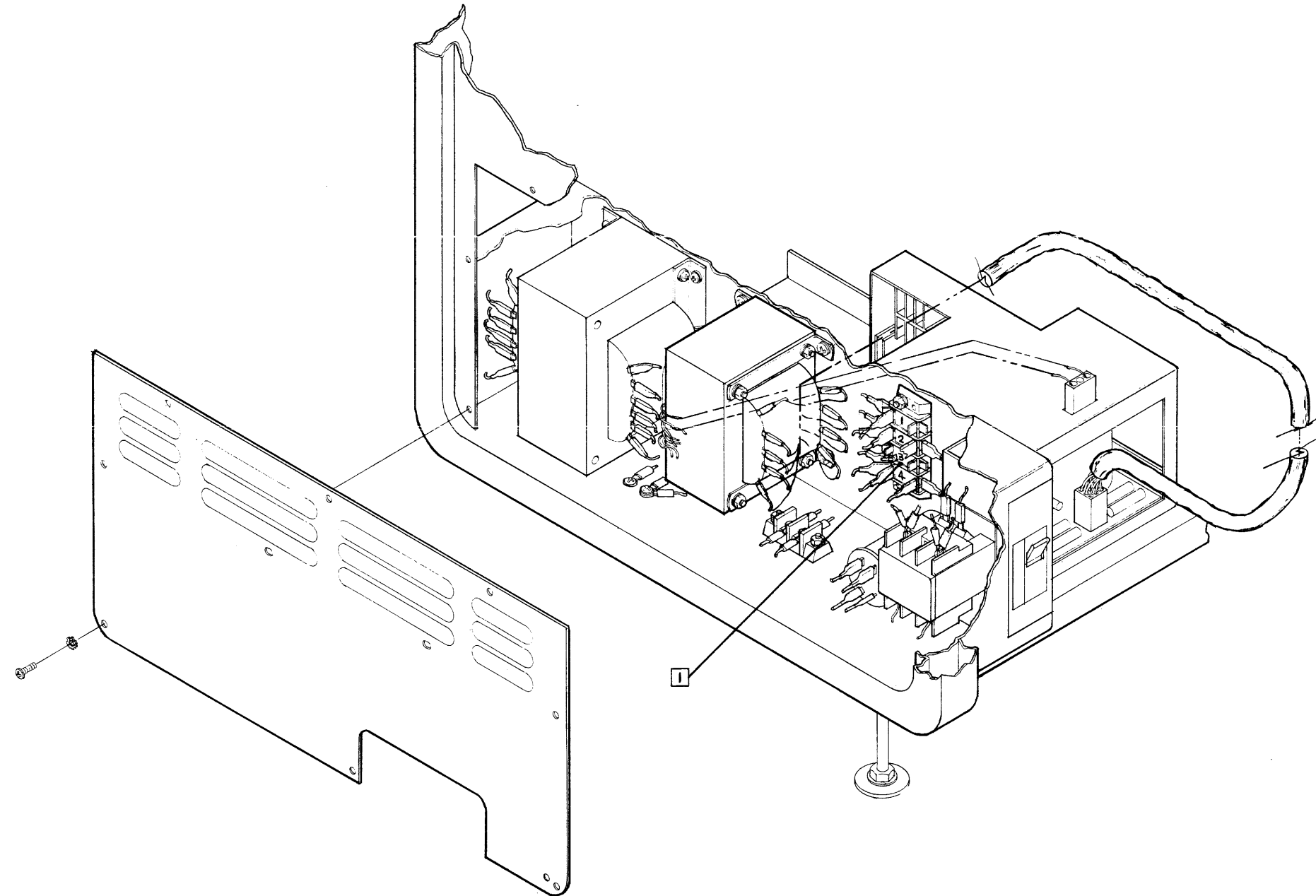
DO NOT SCALE THIS DRAWING
 UNLESS OTHERWISE SPECIFIED,
 DIMENSIONS ARE IN INCHES.
 TOLERANCES .XX ± .02 .XXX ± .005
 SEE CORP. STD. 608

12MBYTE DISC
 FINAL ASSEMBLY
 TITLE
 HEWLETT PACKARD
 PERM. PRINT
 PART NUMBER
 D-45012-90001-1
 SCALE
 .187 = 1.0
 SHEET 1 OF 1

NOTE:

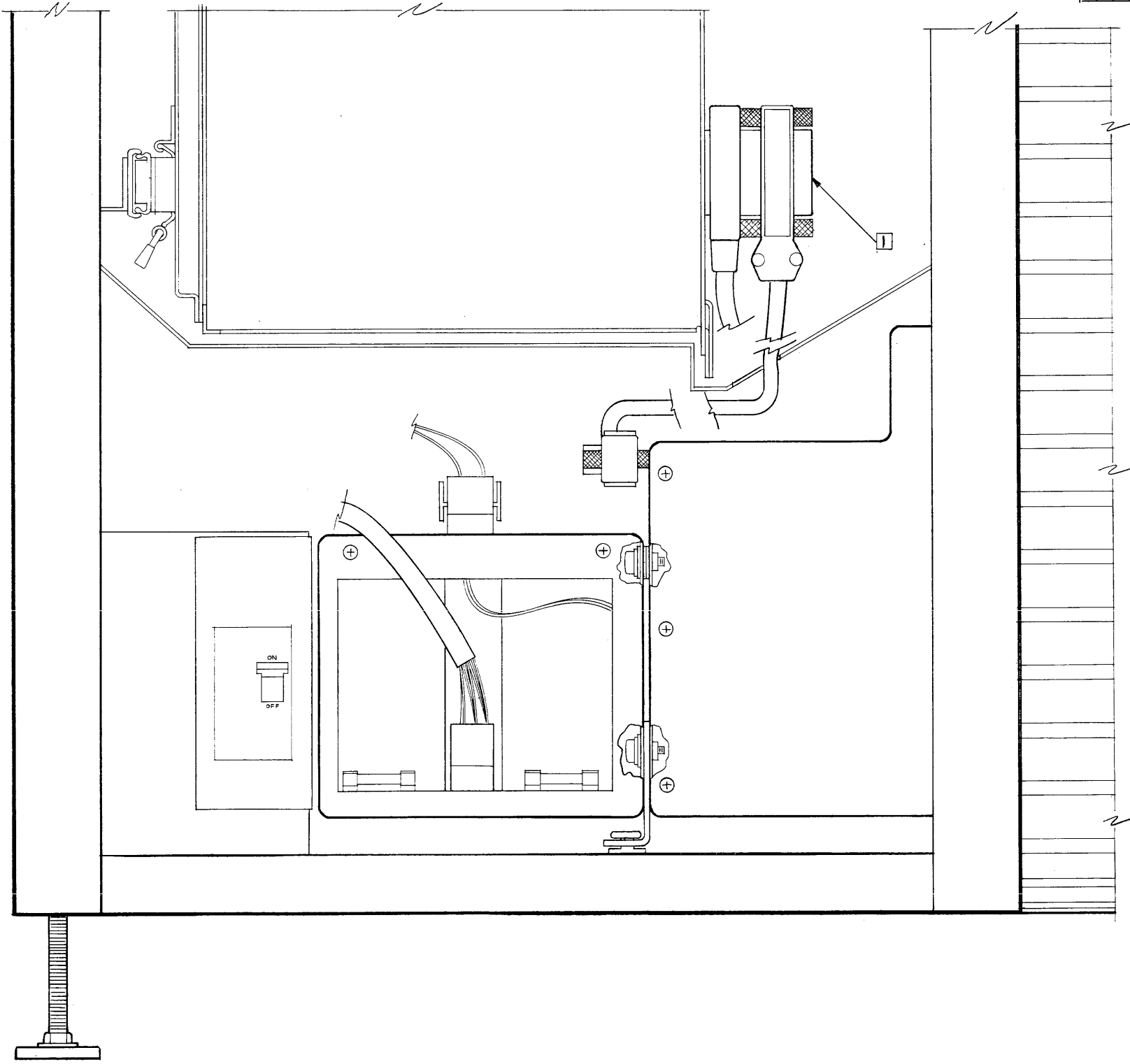
1 PRIMARY VOLTAGE SELECTION FOR LC DISC TRANSFORMER (9100-0466) AS SHOWN BELOW:

	100V	120V	220V	240V
BLU → ①	—	ORN	BLK	ORN
②	ORN	BLK/BLK	ORN	BLK
③	BLK/BLK	—	BLK/BLK	BLK/BLK
BRN → ④	BLK/BLK	BLK/BLK	BLK/RED	BLK/RED



DO NOT SCALE THIS DRAWING		UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.		TOLERANCES .XX ± .02 .XXX ± .005		SEE CORP. STD. 008		12MBYTE DISC FINAL ASSEMBLY		HEWLETT PACKARD PERM. PRINT	
ITEM	QTY.	MATERIAL DESCRIPTION		MAYL PART NO.		MAYL DWG NO.		MAYL SPEC.		PART NUMBER	
FINISH										SCALE 1/2" = 1"	
										D-45012-9000-2	

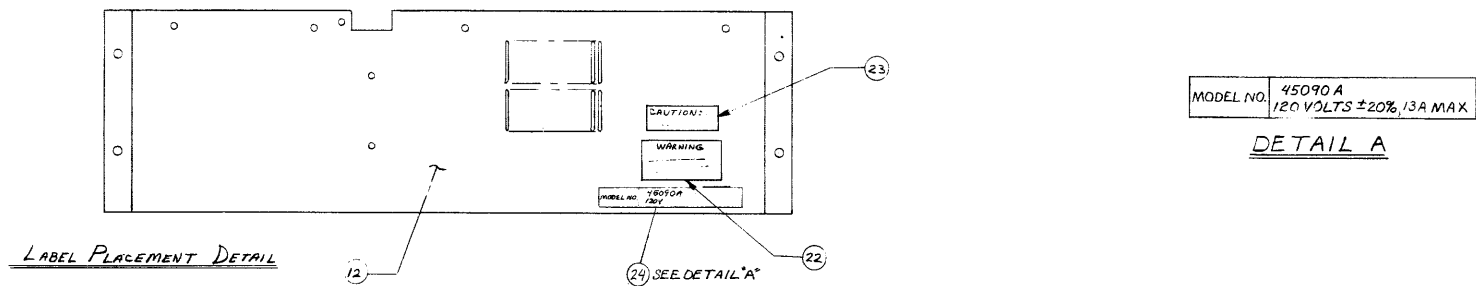
ENGINEERING RESPONSIBILITY															SYM		REVISED		APPROVED		DATE		
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	A		AS ISSUED		KJ/MCM		5/13/80	
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31								
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47								
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63								



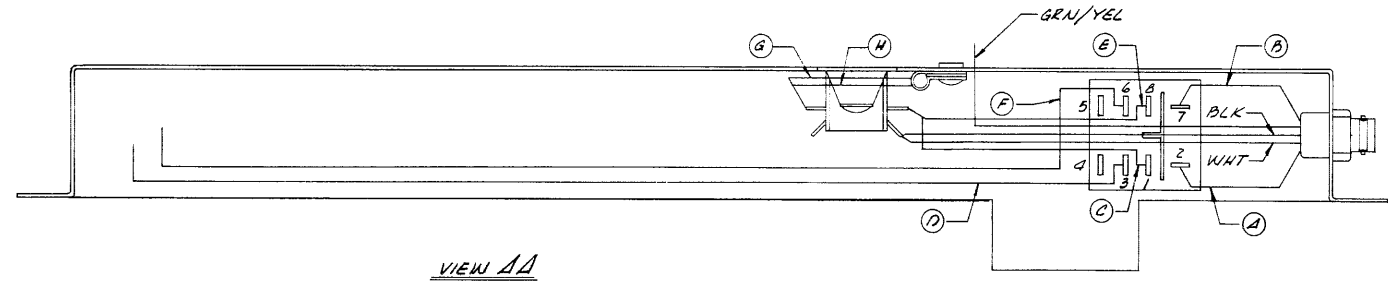
NOTE:
 1 AFTER DISC AND POWER SUPPLY ARE IN PLACE
 CONNECT HP-13 CABLE (10833A) AS SHOWN

DO NOT SCALE THIS DRAWING		UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES .XX ± .02 .XXX ± .005		SEE CORP. STD. 606		ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L. PART NO.	MAT'L. DWG. NO.	MAT'L. SPEC.
12MBYTE DISC FINAL ASSEMBLY						HEWLETT PACKARD PERM. PRINT		PART NUMBER D-45012-90001-3		SCALE 1" = 1"	

ENGINEERING RESPONSIBILITY															SEPIA					D-45090-64101-1																																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	SYM	REVISONS	APPROVED	DATE
																														A AS ISSUED		16-18-72																					
																														B ADDED DETAIL A, AND NOTE 3, ITEM 24, 25, ITEM 16 WAS 2510-0053		31-11-72 4:05P																					

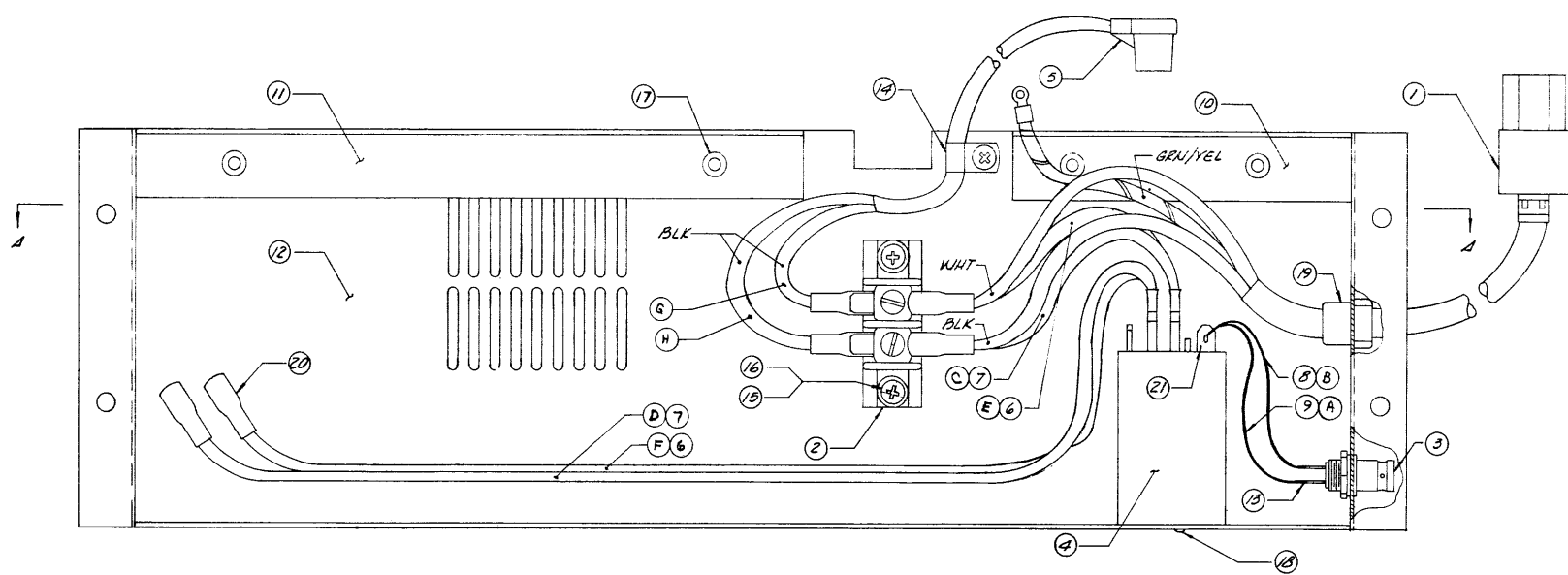


MODEL NO. 45090 A
120 VOLTS ±20%, 13A MAX.
DETAIL A



WIRE NO.	COLOR	LENGTH	TERM #1	TERM #2	RELAY COIL
A	8150-0296 VIOLET	120mm	SEE NOTE 2	SEE NOTE 2	2
B	8150-0295 GRAY	120mm	SEE NOTE 2	SEE NOTE 2	7
C	8150-2463 BROWN	110mm	0362-0531	0362-0531	1
D	8150-2463 BROWN	375mm	0362-0531	0362-0531	3
E	8150-2467 BLUE	110mm	0362-0531	0362-0531	8
F	8150-2467 BLUE	375mm	0362-0531	0362-0531	6
G	8120-2795 BLACK		0362-0531		
H	8120-2795 BLACK		0362-0531		

NOTES:
1. STRIP ENDS AS REQUIRED FOR TERMINATION.
2. STRIP ENDS AS REQUIRED FOR SOLDER CONNECTION.
3. BLOWER (ITEM 25) IS STRUCTURED WITH THIS ASSEMBLY TO KEEP CORRECT VOLTAGE PARTS TOGETHER. IT IS NOT ASSEMBLED TO THE FAN COVER.

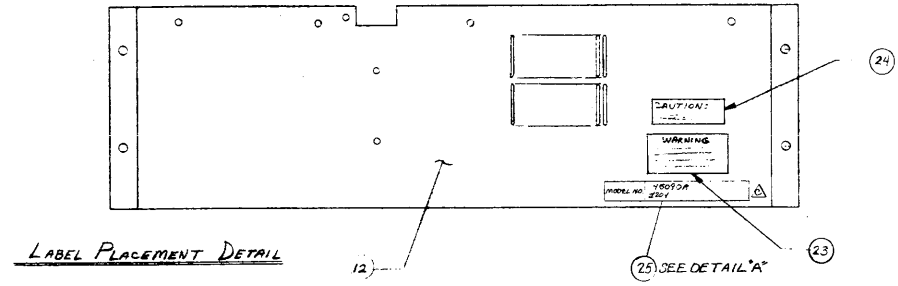


ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
25	1	BLOWER-CNTFGL (SEE NOTES)	3160-0263		
24	1	LABEL-MODEL NO.	7120-7181		
23	1	LABEL-CAUTION	7120-3528		
22	1	LABEL-WARNING	7120-3185		
21	30mm	HEAT SHRINK TUBING	0890-0765		
20	10	TERMINAL SLIPON	0362-0531		
19	1	GRDM STR RLF	0400-0208		
18	2	SCR-TP6 4-20	0624-0814		
17	3	SCR-#8 X 3/8 LK	2510-0045		
16	2	SCR-M2CH, 8-32	2510-0051		
15	2	WSHR-#8 FLAT	3050-0071		
14	1	CLAMP CABLE 3/16"	1400-0053		
13	25mm	HEAT SHRINK TUBING	0890-0100		
12	1	FAN COVER R.H.	45090-04101		
11	1	SWITCH COVER	45090-04104		
10	1	RELAY COVER	45090-04105		
9	120mm	WIRE 24AWG V	8150-0296		
8	120mm	WIRE 24AWG GY	8150-0295		
7	485mm	WIRE 14AWG BRN	8150-2463		
6	485mm	WIRE 14AWG BLU	8150-2467		
5	1	FAN COIL	8120-2795		
4	1	RELAY 24VDC, 120 AC	0490-1191		
3	1	PIVOTAL PLUG	1250-1336		
2	1	TERMINAL BLK 2 POSN	0360-1940		
1	1	POWER COIL, FEM	8120-2797		

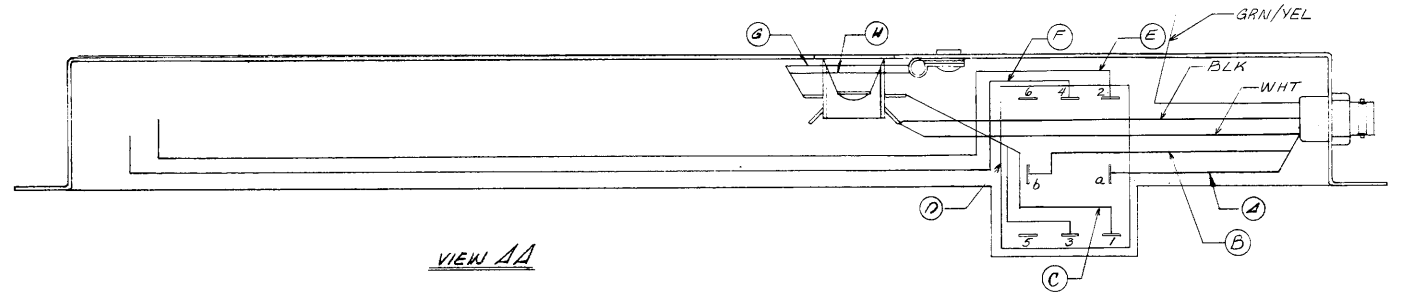
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES
THIRD ANGLE PROJECTION
TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
XX.X ± 0.2 mm or ± 0.1 mm
STRIKE OUT ONE XX AND ONE XX.X
SEE CORP. STD. 608
DO NOT SCALE THIS DRAWING

FAN COVER 120V - U.S.		HEWLETT-PACKARD	
TITLE 45090A		PART NUMBER D-45090-64101-1	
NEXT ASSEMBLY		FINISH SCALE Full	

ENGINEERING RESPONSIBILITY														REVIEWS		APPROVED		DATE	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	BY	DATE	BY	DATE
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	A	05 ISSUED		12-18-79
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	B	REVISIONS	37-416.9	5-9-79
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	C	WIRE STRIP WIRE QTY 350 MM, 17MM 6+7	37-416.9	5-9-79
																D	WIRE STRIP 460 MM	37-416.9	5-9-79
																E	WIRE STRIP 460 MM	37-416.9	5-9-79
																F	WIRE STRIP 460 MM	37-416.9	5-9-79
																G	WIRE STRIP 460 MM	37-416.9	5-9-79
																H	WIRE STRIP 460 MM	37-416.9	5-9-79
																I	WIRE STRIP 460 MM	37-416.9	5-9-79
																J	WIRE STRIP 460 MM	37-416.9	5-9-79
																K	WIRE STRIP 460 MM	37-416.9	5-9-79
																L	WIRE STRIP 460 MM	37-416.9	5-9-79
																M	WIRE STRIP 460 MM	37-416.9	5-9-79
																N	WIRE STRIP 460 MM	37-416.9	5-9-79
																O	WIRE STRIP 460 MM	37-416.9	5-9-79
																P	WIRE STRIP 460 MM	37-416.9	5-9-79
																Q	WIRE STRIP 460 MM	37-416.9	5-9-79
																R	WIRE STRIP 460 MM	37-416.9	5-9-79
																S	WIRE STRIP 460 MM	37-416.9	5-9-79
																T	WIRE STRIP 460 MM	37-416.9	5-9-79
																U	WIRE STRIP 460 MM	37-416.9	5-9-79
																V	WIRE STRIP 460 MM	37-416.9	5-9-79
																W	WIRE STRIP 460 MM	37-416.9	5-9-79
																X	WIRE STRIP 460 MM	37-416.9	5-9-79
																Y	WIRE STRIP 460 MM	37-416.9	5-9-79
																Z	WIRE STRIP 460 MM	37-416.9	5-9-79

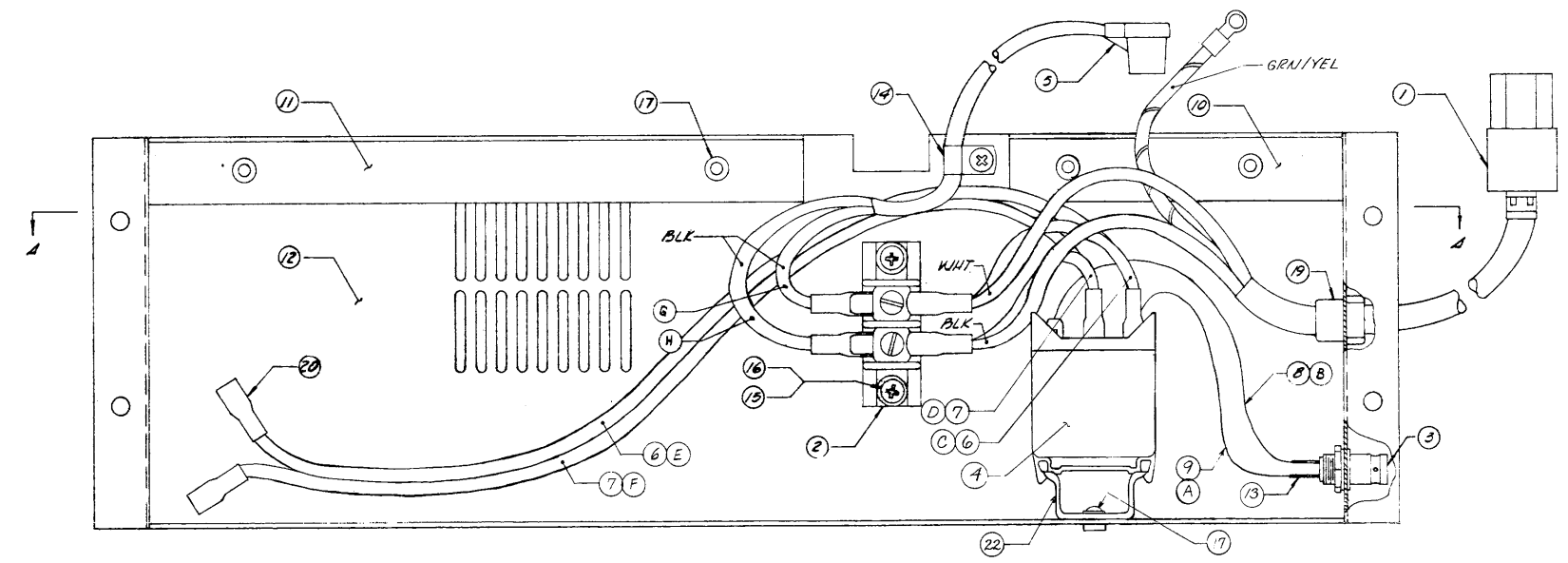


MODEL NO. 45090 A OPTION #055
220 VOLTS ±20%, 10A MAX
DETAIL A



WIRE NO.	COLOR	LENGTH	TERM #1	TERM #2	RELAY COIL
A	8150-0296 VIOLET	120mm	SEE NOTE 2	SEE NOTE 2	a
B	8150-0295 GRAY	140mm	SEE NOTE 2	SEE NOTE 2	b
C	8150-2467 BLUE	110mm	0362-0531	0362-0531	1
D	8150-2463 BROWN	110mm	0362-0531	0362-0531	2
E	8150-2467 BLUE	375mm	0362-0531	0362-0531	2
F	8150-2463 BROWN	375mm	0362-0531	0362-0531	2
G	8150-2795 BLACK		0362-0531	0362-0531	4
H	8150-2795 BLACK		0362-0531	0362-0531	4

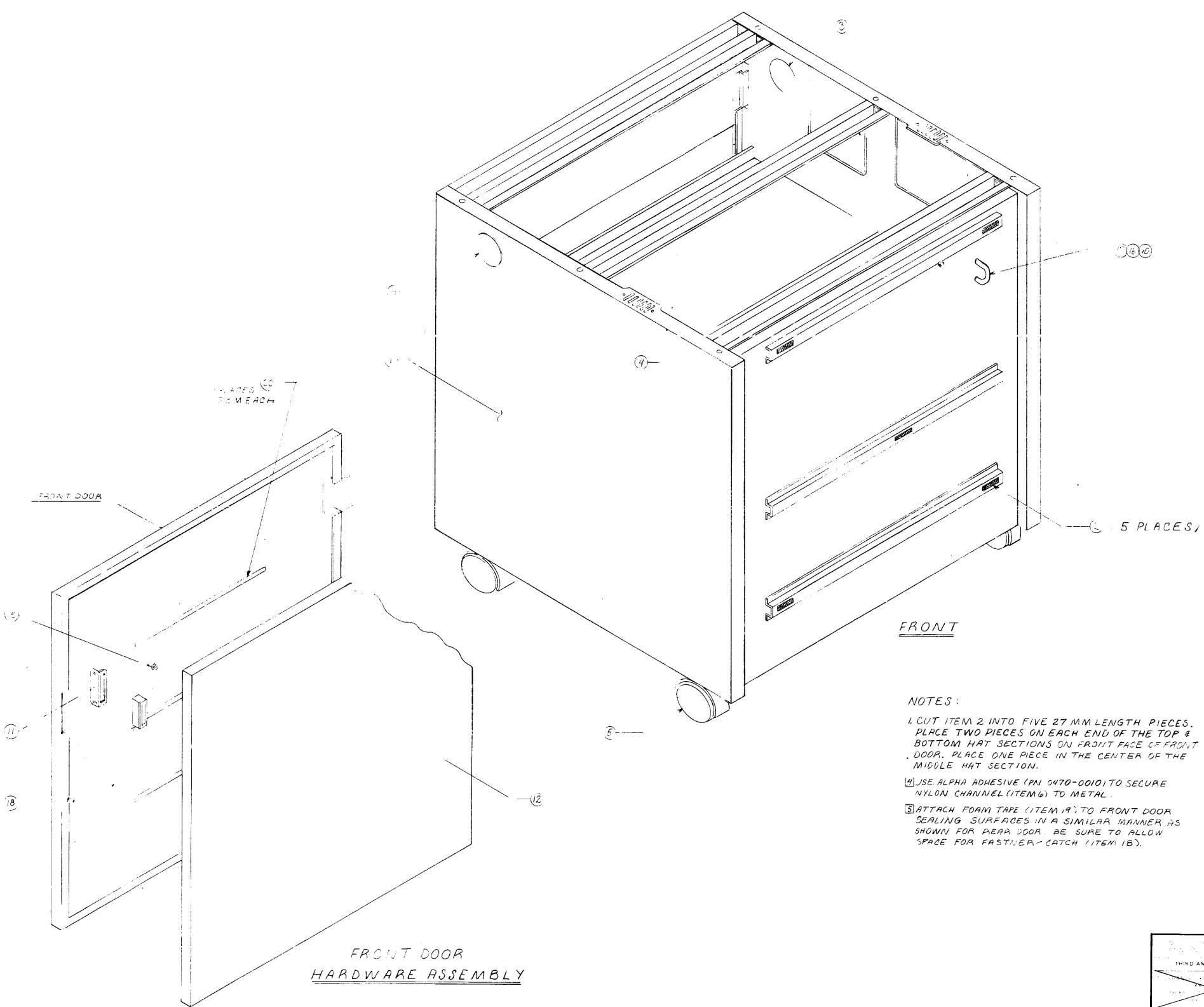
NOTES:
1. STRIP ENDS AS REQUIRED FOR TERMINATION.
2. STRIP ENDS AS REQUIRED FOR SOLDER CONNECTION.
3. FAN (ITEM 18) IS STRUCTURED WITH THIS ASSEMBLY TO KEEP CORRECT VOLTAGE PARTS TOGETHER, IT IS NOT ASSEMBLED TO THE FAN COVER.



ITEM	QTY	MATERIAL DESCRIPTION	MATL. PART NO.	MATL. DWG NO.	MATL. SPEC.
25	1	LABEL-MODEL NO.	7120-7181		
24	1	LABEL-CAUTION	7120-3528		
23	1	LABEL-WARNING	7120-3185		
22	1	MOUNTING BRACKET	45090-01201		
21	30mm	WIRE STRIP TUBING	0890-0765		
20	10	TERMINAL SLIDING	0362-0531		
19	1	POWER STR PLG	1400-0208		
18	1	FAN (SEE NOTE 3)	3160-0322		
17	5	3CR. #8 X 3/8 LK	2510-0043		
16	2	SCR. #8 X 3/8	2510-0051		
15	2	WASHER #8 FLAT	3050-0071		
14	1	CLAMP CABLE 3/16"	1400-0053		
13	25mm	WIRE STRIP TUBING	0890-0100		
12	1	RELAY COVER	45090-08101		
11	1	SWITCH COVER	45090-08102		
10	1	RELAY COVER	45090-08103		
9	170mm	WIRE STRIP V	8150-0296		
8	140mm	WIRE STRIP GY	8150-0295		
7	485mm	WIRE STRIP BRN	8150-2463		
6	485mm	WIRE STRIP BLU	8150-2467		
5	1	FAN CORD	0490-2795		
4	1	RELAY 24VDC, 220 JG	0490-1197		
3	1	BIPOLAR PLUG	1250-1336		
2	1	TERM BLK 2 POSN	0360-1940		
1	1	POWER CORD, FEM	8120-2797		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETRES
THIRD ANGLE PROJECTION
TOLERANCES XX ± 0.5 mm or ± 0.4 mm
XX X ± 0.2 mm or ± 0.1 mm
STRIKE OUT ONE XX AND ONE XX X
SEE COMP. STD. 608
DO NOT SCALE THE DRAWING

FAN COVER		HEWLETT PACKARD	
E20V-EUROPEAN			
TITLE		PART NUMBER	
45090A#055		D-45090-64102-1	
NEXT ASSEMBLY		FINISH	
Full		Full	
SCALE		SCALE	
		SHEET 1 OF 1	



NOTES:

1. CUT ITEM 2 INTO FIVE 27 MM LENGTH PIECES. PLACE TWO PIECES ON EACH END OF THE TOP & BOTTOM HAT SECTIONS ON FRONT FACE OF FRONT DOOR. PLACE ONE PIECE IN THE CENTER OF THE MIDDLE HAT SECTION.

2. USE ALPHA ADHESIVE (PN 0470-0010) TO SECURE NYLON CHANNEL (ITEM 6) TO METAL.

3. ATTACH FOAM TAPE (ITEM 19) TO FRONT DOOR SEALING SURFACES IN A SIMILAR MANNER AS SHOWN FOR REAR DOOR. BE SURE TO ALLOW SPACE FOR FASTENER-CATCH (ITEM 18).

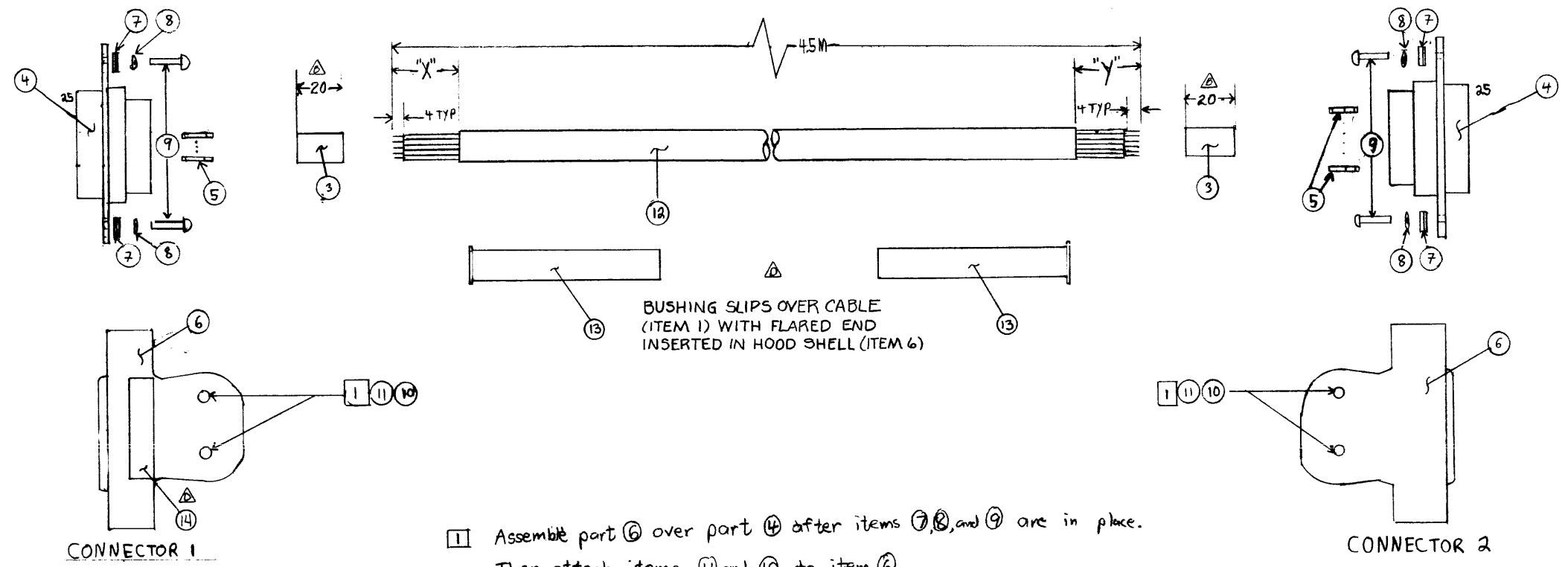
QTY	DESCRIPTION	PART NUMBER
20	18M TAPE - INCL .50 IN WIDE	0460-1174
19	52M TAPE .375 IN	0460-1204
18	2 FASTNER-CATCH	1390-0265
17	4 SCREW #10-32 x .25 IN	2680-0128
16	4 WASHER #10 LA	2190-0012
15	4 NUT #4-40 N/TK	2260-0009
14	1 SWITCH ARM	3101-2232
13	1 SWITCH BEZEL	5040-8268
12	1 FOAM FRONT DOOR	4208-0243
11	2 MAG LCH MTG BRKT	1390-0469
10	2 DOOR HANDLE	1440-0948
9	2 CABLE CLIP	400-0968
8	1 FOAM - UPPER DOOR	4208-0247
7	1 FOAM - LOWER DOOR	4208-0246
6	4.5 CHANNEL NYLON	0400-0018
5	4 CASTER	1442-0051
4	1 SLIDING SHELF	1600-0782
3	4 PLUG	5041-1456
2	135M VELCRO-LOOP	0510-0659
1	1 STAND-SHEET METAL	7101-0502

THIRD ANGLE PROJECTION
DO NOT SCALE THIS DRAWING

STAND ASSEMBLY		HEWLETT PACKARD
45090A		PART NUMBER
SCALE 1:4	D-45090-67905-1	

ENGINEERING RESPONSIBILITY															SEPIA																													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

SYM	REVISIONS		APPROVED	DATE
	A	AS ISSUED		10-20-78
	B	ITEM 3 WAS 160mm	37-4225	5-23-79
	C	ITEM 10 WAS 2260-0010	40P-0087	11-5-80
	D	ADD ITEM 13, 14 AND NOTE	RB	7-25-80
E	2200-0091 WAS 2200-0757 PER 40P-0194	RB	4-25-80	



Ⓜ Assemble part 6 over part 4 after items 7, 8, and 9 are in place. Then attach items 11 and 10 to item 6.

SIGNAL	COLOR	"X"	CONN 1	"Y"	CONN 2
TRANS DATA	VIOLET	30mm	2	30mm	3
REC DATA	YELLOW	30mm	3	30mm	2
REST DATA	BLUE	30mm	4	30mm	4
SPARE	WHITE	30mm	6	30mm	20
DATA RT	GRAY	30mm	20	30mm	6
DATA FT	GREEN	30mm	5	30mm	5
SGNL GND	ORANGE	30mm	7	30mm	7
DATA STR	BROWN	30mm	8	30mm	8
DATA RATE	RED	30mm	22	30mm	22
DATA RATE	BROWN	30mm	23	30mm	23

ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG. NO.	MAT'L SPEC.
14	1	LABEL	7121-0652		
15	2	BUSHG - CONN CIRC	1251-0352		
12	25M	CA - SHLD .26 AWG	8120-0822		
11	4	NUT 4-40 HEX	2260-0001		
10	4	SCR - MACH 4-40 .5 IN	2220-0010		
9	4	SCR - MACH 4-40 .688 IN	2200-0757		
8	4	WSHR - LK - HLCL	2190-0078		
7	4	HOOD CLAMP	1251-3328		
6	4	HOOD HALF SHELL	1251-3320		
5	20	CONTACT - CONNM	1251-3255		
4	2	CONN 25 - PIN M	1251-2417		
3	40mm	TB6 - HS .375 DIA	0890-0211		

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

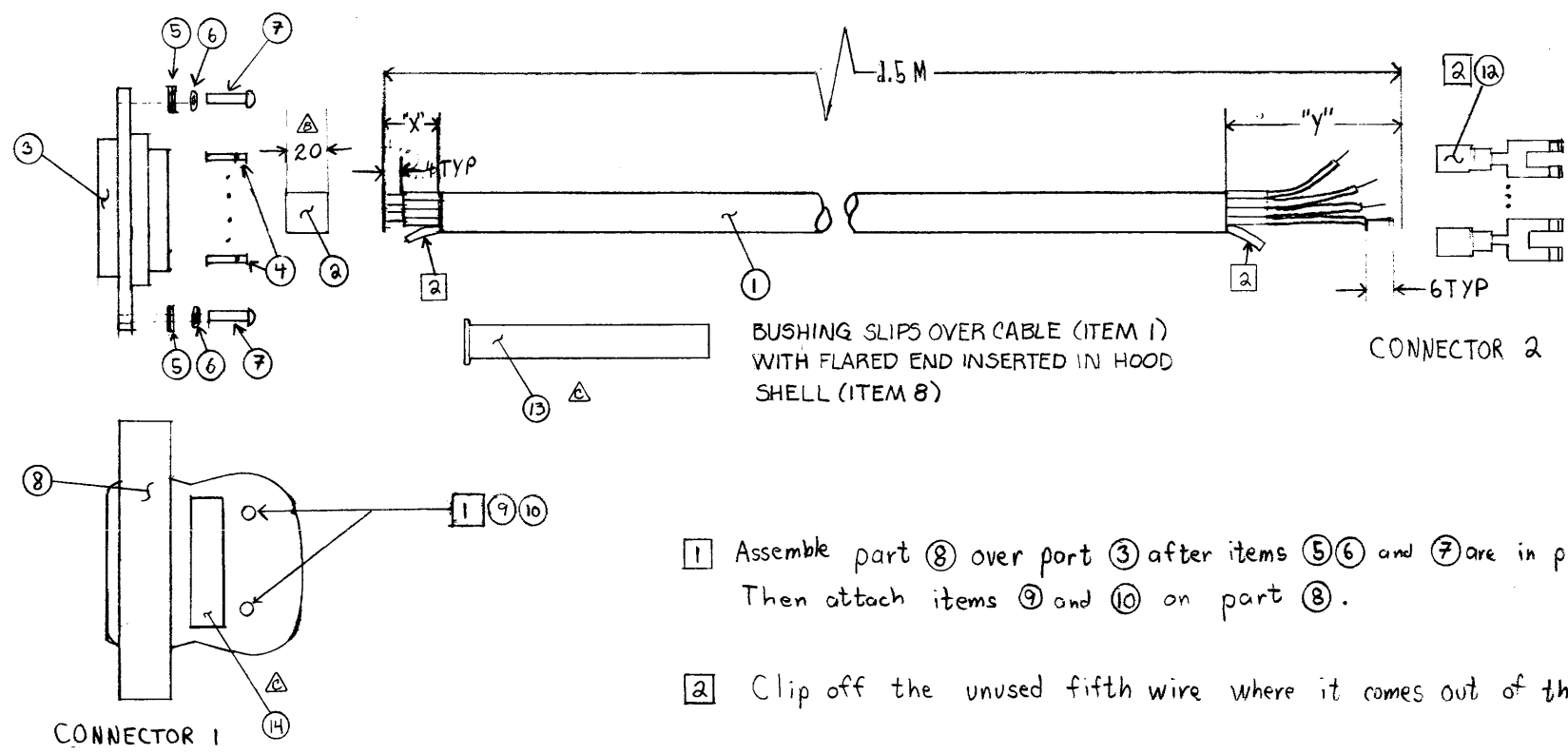
TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
 XX.X ± 0.2 mm or ± 0.1 mm
 STRIKE OUT ONE XX AND ONE XX.X
 SEE CORP. STD. 808

DO NOT SCALE THIS DRAWING

MODEM CABLE		HEWLETT PACKARD	
TITLE		PART NUMBER	
NEXT ASSEMBLY		C-45111-61601-1	
FINISH	SCALE	SHEET 1 OF 1	

ENGINEERING RESPONSIBILITY											SEPIA				
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47

C-45112-61602-1		APPROVED	DATE
SYM	REVISIONS		
A	AS ISSUED		10-26-78
B	ITEM 2 WAS 80 mm	37-4225	5-23-79
C	ADD ITEM 13,14 AND NOTE, 2200-0091	RB	3-23-76
-	WAS 2200-0757 PER 40P-0156		
D	2200-0757 WAS 2200-0091 PER 40P-0199	K B	4-25-84



- 1 Assemble part 8 over part 3 after items 5, 6 and 7 are in place. Then attach items 9 and 10 on part 8.
- 2 Clip off the unused fifth wire where it comes out of the cable.

SIGNAL	COLOR	"X"	Conn 1	"Y"	Conn 2
SIGNAL GND	YELLOW	30	7	75	CLIP
CL RECEIVE	RED	30	11	75	CLIP
CL TRANSMIT	GREEN	30	18	75	CLIP
CL RECEIVE	BROWN	30	25	75	CLIP

14	1	LABEL	7121-0656		
13	1	BUSHING-CIRC CONN	1251-0352		
12	4	TERMINAL CLIP	0362-0208		
10	2	NUT HEX ØBL CHAM	2260-0001		
9	2	SCR MACH 4-40 .5IN	2220-0010		
8	2	HOOD HALF SHELL	1251-3330		
7	2	SCR MACH 4-40 .687IN	2200-0757	△△	
6	2	WSHR-LK HLCL	2190-0078		
5	2	HOOD CLAMP	1251-3338		
4	4	CONTACT CONN M	1251-3252		
3	1	CONN 25-PIN M	1251-2417		
2	20MM	T86-HS .375 OIA	0890-0291		
1	1.0MM	CA-UNSHED 22-AWG	8120-1871		

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
 XX.X ± 0.2 mm or ± 0.1 mm
 STRIKE OUT ONE XX AND ONE XX.X
 SEE CORP. STD. 608

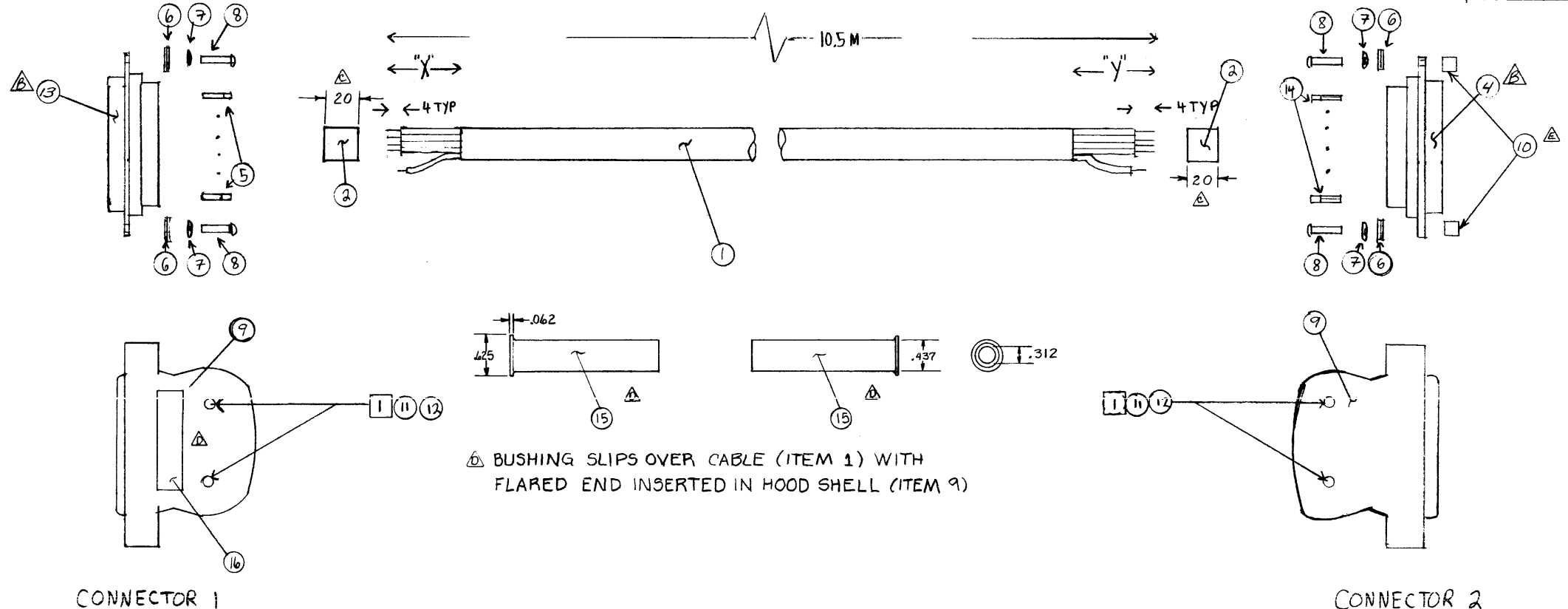
DO NOT SCALE THIS DRAWING

CURRENT LOOP CABLE		HEWLETT PACKARD
TITLE	PART NUMBER	
NEXT ASSEMBLY	C-45112-61602-1	
FINISH	SCALE	SHEET / OF 1

E 2200-0757 WAS 2200-0091, ITEM 10 L.A. 4-25-80
 - MOVED TO FEMALE CONN. END PER PCO 40P-0199

ENGINEERING RESPONSIBILITY												SEPIA			
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63

C-45113-61603-1		APPROVED	DATE
SYM	REVISIONS		
A	AS ISSUED	R. S.	10-20-78
B	ITEM 3 WAS ITEM 4. I WAS 13 TO AGREE WITH THE WAY PART IS BEING MFG'D.	D. J. WRIGHT	12-11-78
C	ITEM 2 WAS 160.0mm	R. S.	5-23-79
D	ADD ITEMS 15+16, NOTE 2200-0091	R. S.	3-25-80
-	WAS 2200-0757 PER PCO 40P-0156		



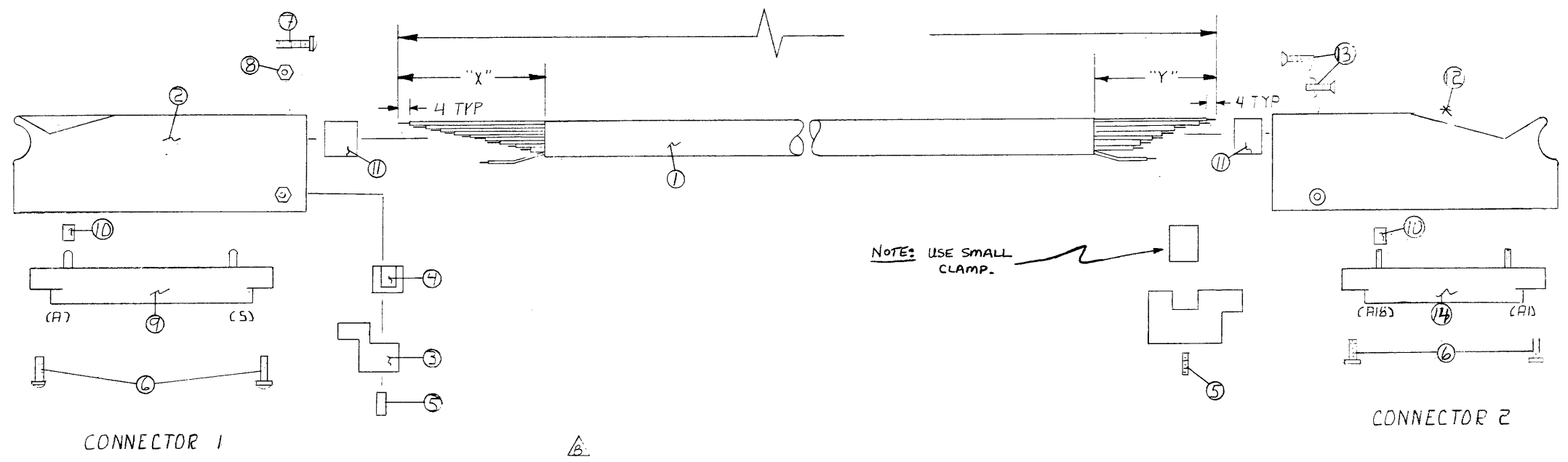
- ASSEMBLE PART ⑨ OVER PART ④, AFTER ITEMS ⑥ ⑦ AND ⑧ ARE IN PLACE, USING ITEMS ⑪ AND ⑫

SIGNAL	COLOR	"X"	CONN 1	"Y"	CONN 2
RECEIVED DATA	VIOLET	30	2	30	2
TRANS. DATA	YELLOW	30	3	30	3
DATA SET A/D	WHITE	30	6	30	6
SIGNAL GND	ORANGE	30	7	30	7
DATA TERM. INT	GRAY	30	20	30	20
-	BLUE	-	-	-	-
-	GREEN	-	-	-	-
-	BROWN	-	-	-	-
-	RED	-	-	-	-
-	BRN/WHT	-	-	-	-

16	1	LABEL	7121-0655		
15	2	B5HG - CIRC CONN	1251-0352		
14	5	CONTACT-CONN-F	1251-3261		
13	1	CONN 25-PIN M	1251-2417		
12	4	NUT HEX DBL CHAM	2260-0007		
11	4	SCR MACH 4-40 .5 IN	2220-0010		
10	2	STDF-RND .25 IN	0380-0174		
9	4	HOOD HALF SHELL	1251-3320		
8	4	SCR MACH 4-40 .6875 IN	2200-0757	△△	
7	4	WSHR-LK HLCL	2190-0078		
6	4	HOOD CLAMP	1251-3328		
5	5	CONTACT CONN M	1251-3253		
4	1	CONN 25-PIN F	1251-2416		
2	40MM	TBG-WS .375 DIA	0890-0291		
1	10.5M	CA-SHLD 26 AWG	8120-0822		

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES		DIRECT CONNECTION	
THIRD ANGLE PROJECTION		CABLE	
TOLERANCES: XX ± 0.5 mm or ± 0.4 mm XX.X ± 0.2 mm or ± 0.1 mm STRIKE OUT ONE XX AND ONE XX.X SEE CORP. STD. 608		HEWLETT PACKARD	
DO NOT SCALE THIS DRAWING		NEXT ASSEMBLY	PART NUMBER
		FINISH	SCALE NONE
		C-45113-61603-1	
		SHEET / OF /	

ENGINEERING RESPONSIBILITY															SEPIA					C-45120-61600-1	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	REVISIONS		APPROVED	DATE		
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	A	AS ISSUED	8/20/72			
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	B	CLARIFY CONNECTION TABLES	3/7/64	1-27-71		



CONN 1

ITEM	COLOR
15	WHT/BRN/GRN
S	WHT/BLK
14	WHT/BRN/ORN
R	WHT/BRN/YEL
13	GRA
P	WHT/BRN/RED
12	WHT/BLK/GRN
N	VIO
11	BLU
M	WHT/BLK/VIO
10	WHT/BLK/GRN
L	WHT/BLK/BLU
9	YEL
K	GRN
B	WHT/BLK/ORN
J	WHT/BLK/YEL
7	ORN
H	WHT/BLK/RED
6	WHT/BLK/BRN
F	RED
5	WHT/GRN
E	BRN
4	WHT/BLU
D	WHT/VIO
3	WHT/GRN
C	BLK
2	WHT/RED
B	WHT/YEL
1	WHT/BRN
A	WHT/ORN

CONN 2

ITEM	COLOR
A1	CABLE SHIELD
A2	WHT (w/YEL)
A3	WHT (w/GRN)
A4	WHT (w/BRN); WHT (w/BLU)
A5	WHT (w/BLK); WHT (w/VIO)
A6	WHT (w/GRN); WHT (w/WHT/BLK)
A7	WHT (w/ORN); WHT (w/RED)
A8	RED
A9	ORN
A10	WHT/BLK/RED
A11	WHT/BLK/BRN
A12	WHT/BLK/ORN
A13	BLU
A14	VIO
A15	WHT/BLK/GRN
A16	WHT/BLK/VIO
A17	WHT/BRN/RED
A18	WHT/BLU
B18	WHT/BRN; WHT/RED
B17	WHT/BRN/GRN
B16	WHT/BRN/YEL
B15	WHT/BRN/ORN
B14	WHT/BLK
B13	GRA
B12	WHT/BLK/YEL
B11	WHT/BLK/GRN
B10	WHT/BLK/BLU
B9	YEL
B8	GRN
B7	WHT/GRN
B6	WHT/ORN
B5	WHT/VIO
B4	WHT/YEL
B3	BRN
B2	BLK
B1	WHT/GRN

ITEM	QTY	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG NO.	MAT'L-SPEC.
14	1	CONNECTOR, 2x18	1251-2663		
13	2	SCREWS, FLT HD	0624-0203		
12	1	HOOD, CONN. Lw BLK (LAMP)	1251-4142		
11	1	HEATSHRINK, .082 Pt	0890-0273		
10	1	HEATSHRINK, .16 in.	0890-0100		
9	1	CONNECTOR, 2x15	1251-0159		
8	1	NUT, #4-40	2260-0002		
7	1	SCREW, #4-40	2200-0091		
6	4	SCREWS, SELF TAPPING	0624-0096		
5	2	SET SCREW, #6-32	3030-0143		
4	1	CLAMP, SMALL	5040-6004		
3	1	MNTG. BLOCK	5040-6072		
2	1	HOODS, CONN	5040-6086		
1	1	CABLE, 10 Tw Pa, 20S, #26	8120-2788		

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
 XX.X ± 0.2 mm or ± 0.1 mm
 STRIKE OUT ONE XX AND ONE XX.X
 SEE CORP. STD. 608

DO NOT SCALE THIS DRAWING

CABLE, PSYNC

HEWLETT PACKARD

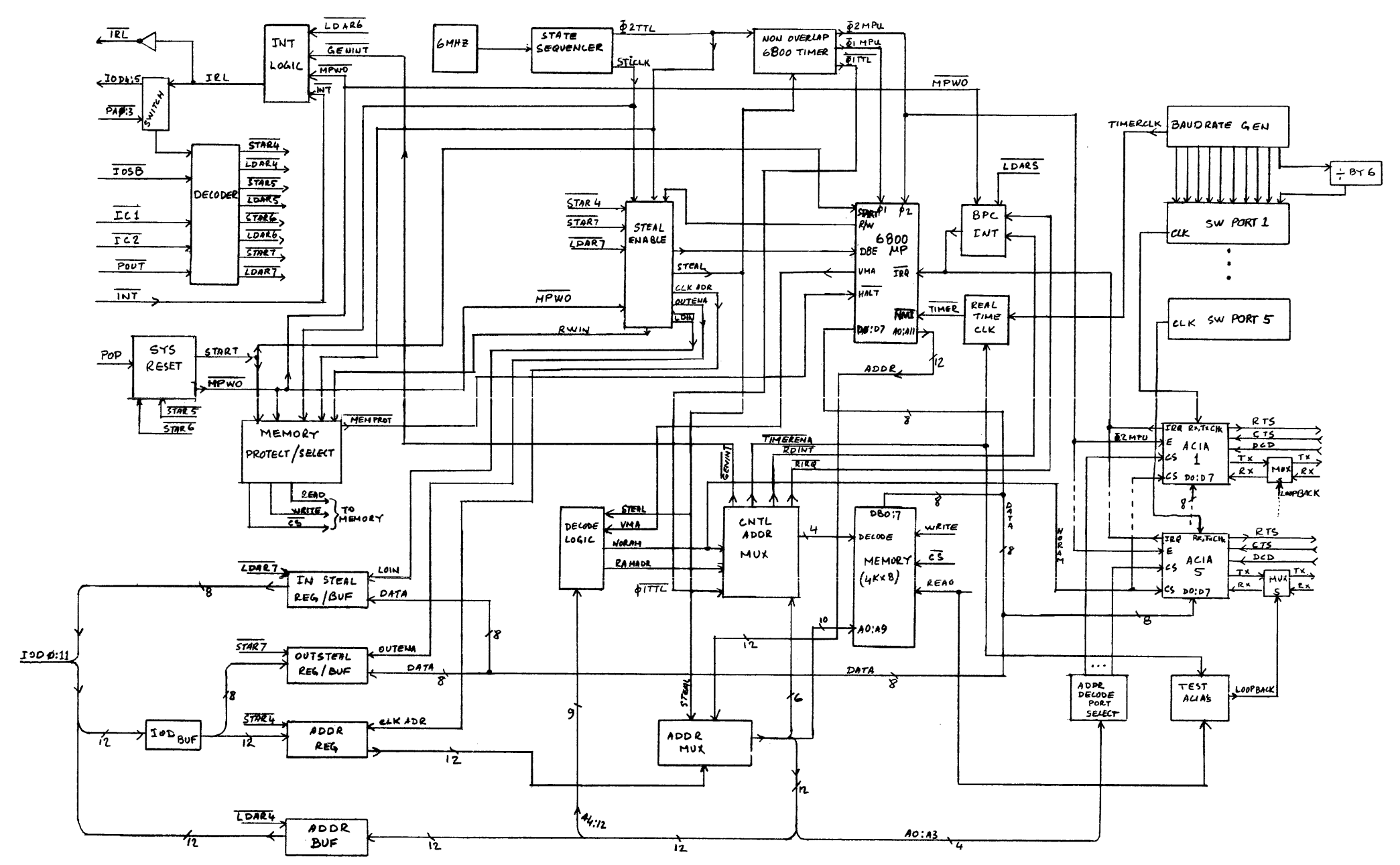
NEXT ASSEMBLY: 45100A

SCALE: NONE

PART NUMBER: C-45120-61600-1

FINISH: SCALE

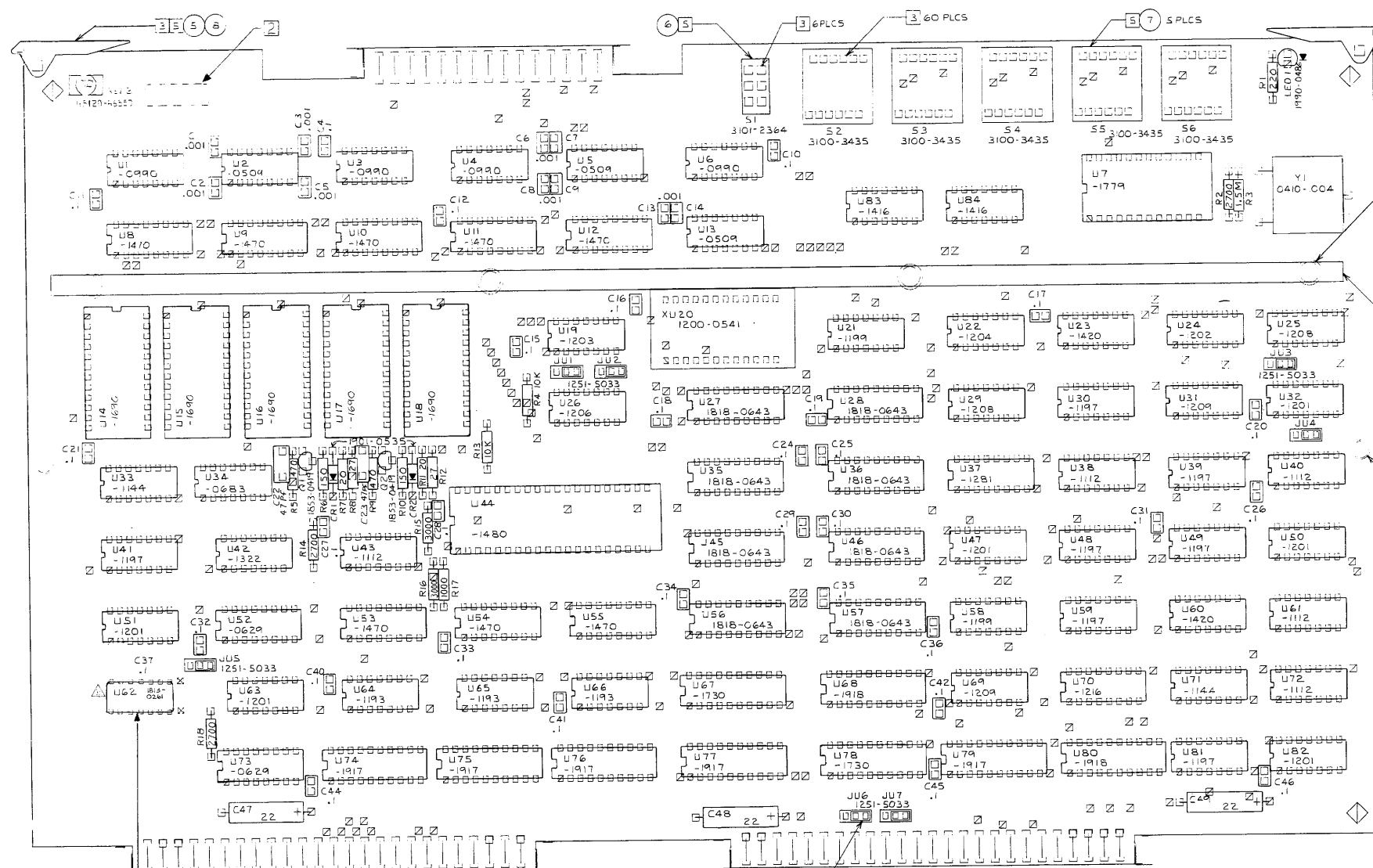
ENGINEERING RESPONSIBILITY																REVISIONS		APPROVED		DATE	
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16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47						



ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG. NO.	MAT'L SPEC.
DO NOT SCALE THIS DRAWING					
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.					
TOLERANCES .XX ± .02 .XXX ± .005					
SEE CORP. STD. 508					
FUNCTIONAL BLOCK DIAGRAM			HEWLETT PACKARD		
TITLE					
ASYNC. DATA COMM.			PART NUMBER		
NEXT ASSEMBLY			C-45120-66550-9		
FINISH			SCALE		

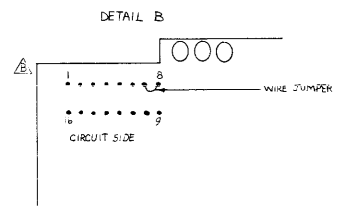
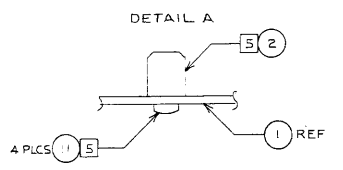
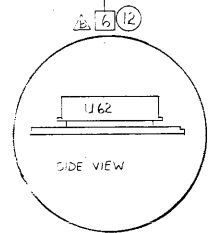
STOCK NO. 8280-0003 PRINTED ON DIEPRO NO. 1030-10 CLEARPRINT FADOUT

SHEET 1 OF 1



ENGINEERING RESPONSIBILITY		REVISED	DATE
1	2	3	4

- NOTES:
- UNLESS OTHERWISE SPECIFIED ALL RESISTANCE IN OHMS ALL RESISTORS ARE 1/4W 5% ALL CAPACITANCE IN MICROFARADS ALL IC'S ARE 1820-
 - MARK DATE CODE 2-3 AND MADE IN USA.
 - MASK AS INDICATED PRIOR TO LOADING
 - USE SUPPORT FIXTURE DURING WAVE SOLDER
 - INSTALL ITEMS 2 - 11 IN FINAL PC ASSEMBLY
 - INSTALL U62 IN THE POSITION SHOWN IN THE DRAWING IF ONLY ONE WIRE (AS SHOWN BETWEEN PINS 1 AND 2) IS TRACKWORK ON THE CIRCUIT SIDE (SEE DETAIL B)

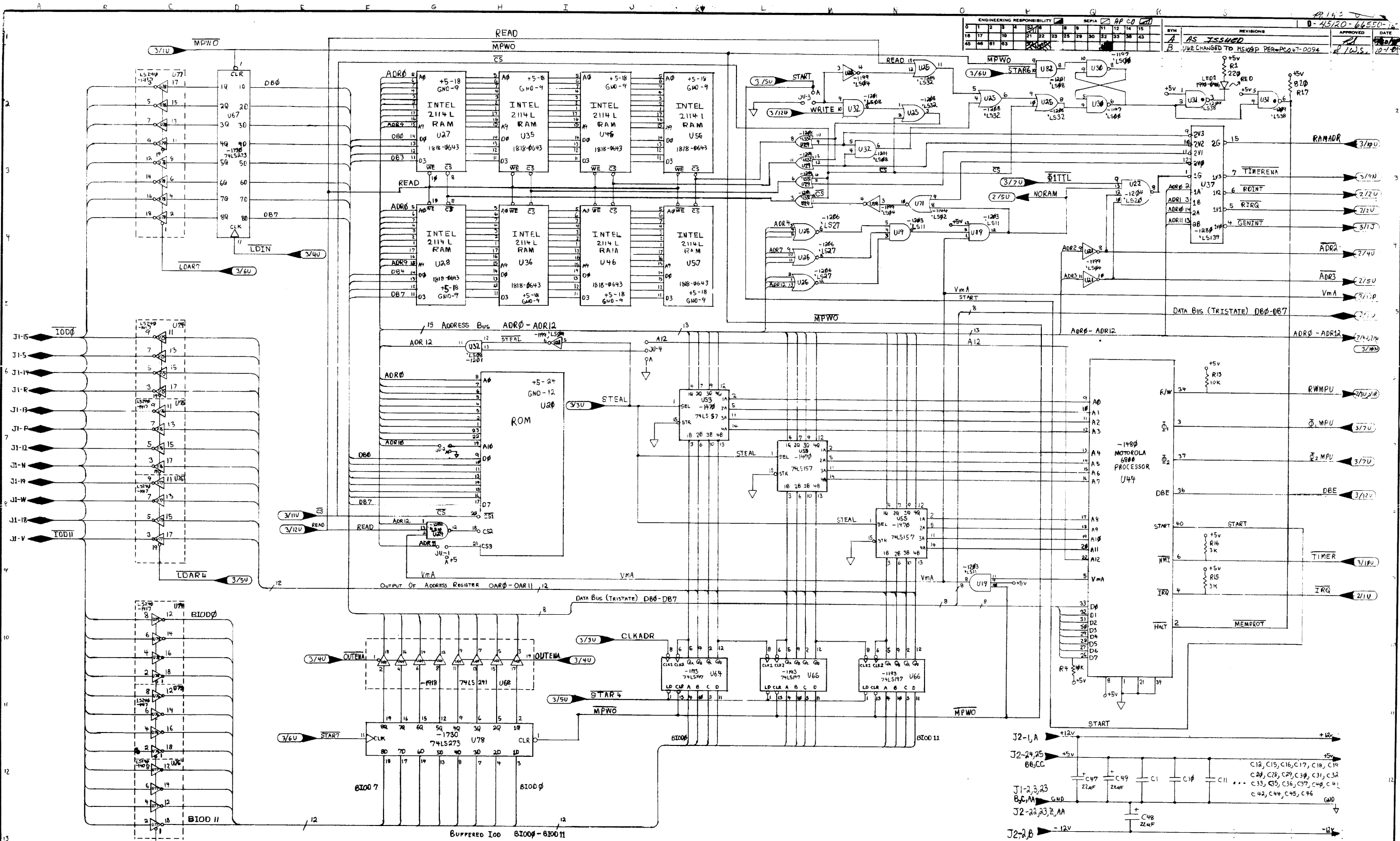


ITEM	QTY	MATERIAL DESCRIPTION	MATERIAL PART NO.	MATERIAL QTY	MATERIAL SPEC.
1	1	WIRE JUMPER	451-0000	1	
2	1	SCREW TAP 4-40 X .31	0624-0077	1	
3	1	JUMPER REMOVEABLE	125B-0141	1	
4	2	PIN GROOVE .062 X .25 LG	480-0116	2	
5	1	SWITCH ROTARY 10 POS.	3100-3435	1	
6	1	SWITCH SLIDER DPDT	3101-2364	1	
7	1	EXTRACTOR PC BRD BLACK	4040-0748	1	
8	1	EXTRACTOR PC BRD BROWN	4040-0749	1	
9	1	INSULATOR GLASS BEAD	4330-0496	1	
10	1	BRACE - PCB	5040-6058	1	
11	1	PC B - BLANK	45120-26550	1	

DO NOT SCALE THIS DRAWING

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE AS SHOWN

PC B ASSY
ASYNC DATA
TITLE
45140A
NEXT ASSEMBLY
45120-66550-
PART NUMBER
F-45120-66550-11
SCALE 2:1
SHEET 01



- 1 ALL IC'S 1826- PREFIX UNLESS OTHERWISE SPECIFIED
- 2 ALL R'S AND C'S IN OHMS AND MICROFARADS UNLESS NOTED

REVISIONS														
REV	DATE	DESCRIPTION	BY	CHKD	APP'D	DATE	REV	DATE	DESCRIPTION	BY	CHKD	APP'D	DATE	REV
A	10/10/80	AS ISSUED												
B	10/10/80	USER CHANGED TO NEW P. PER PROUT-0054												

ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG. NO.	MAT'L SPEC.
C18, C15, C16, C17, C18, C19					
C47, C49					
C1, C10, C11					
C40, C78, C39, C30, C31, C32					
C33, C35, C36, C37, C38, C41					
C42, C44, C45, C46					

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm OR ± 0.4 mm
XX.X ± 0.2 mm OR ± 0.1 mm
STRIKE OUT ONE XX AND ONE XX.X
SEE CORP. STD. 608

DO NOT SCALE THIS DRAWING

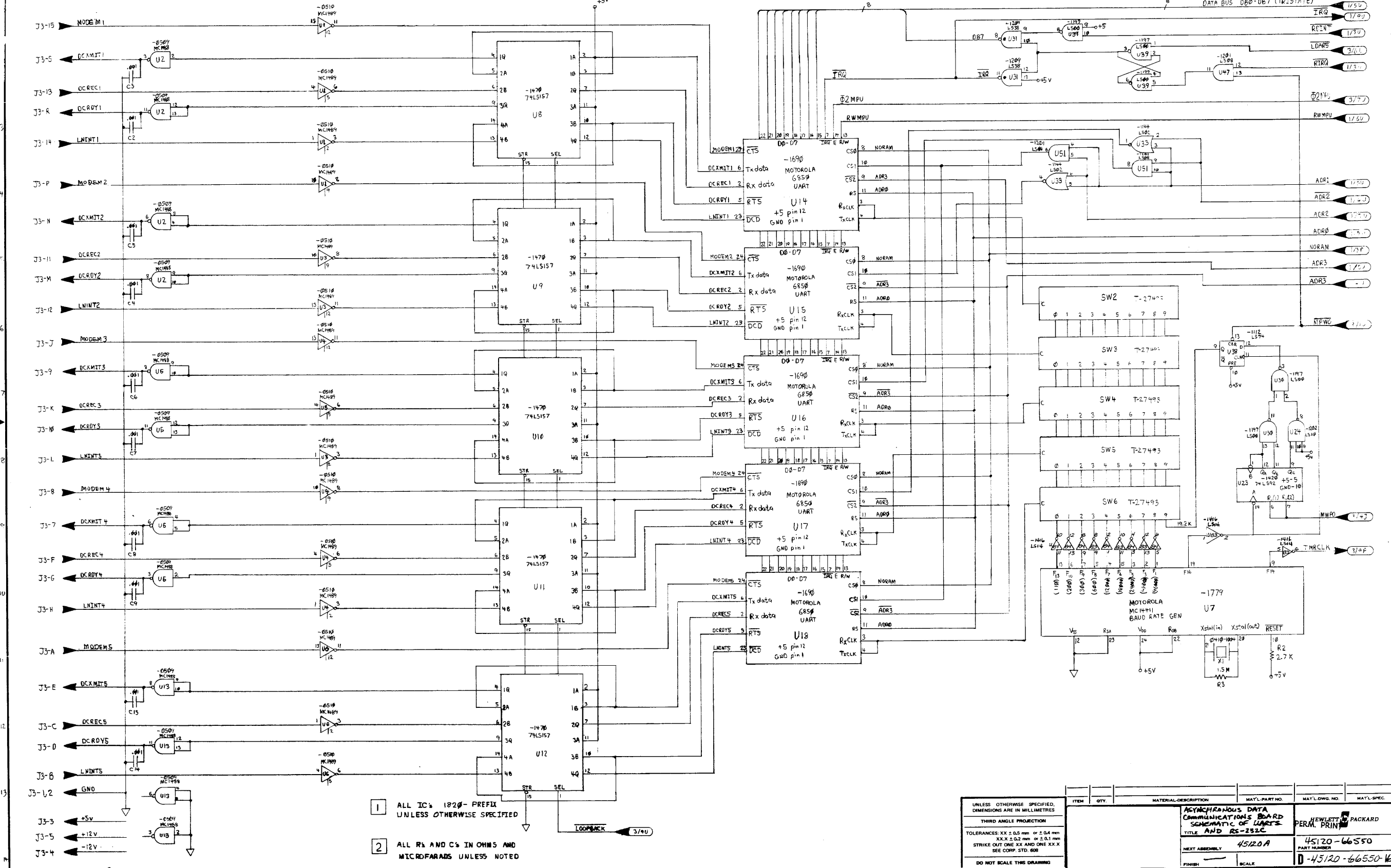
DRAWN BY: Jim Peterson DATE: 6/30/80
ENGINEER: M. M. Callough DATE: 10/10/80
RELEASE TO PROD: 10/10/80
SUPERSEDES DWG: D-45120-66550-1 / 10-3-80

ASYNCHRONOUS DATA COMMUNICATIONS BOARD SCHEMATIC OF PROCESSOR AND MEMORY

HEWLETT PACKARD PERM. PR.

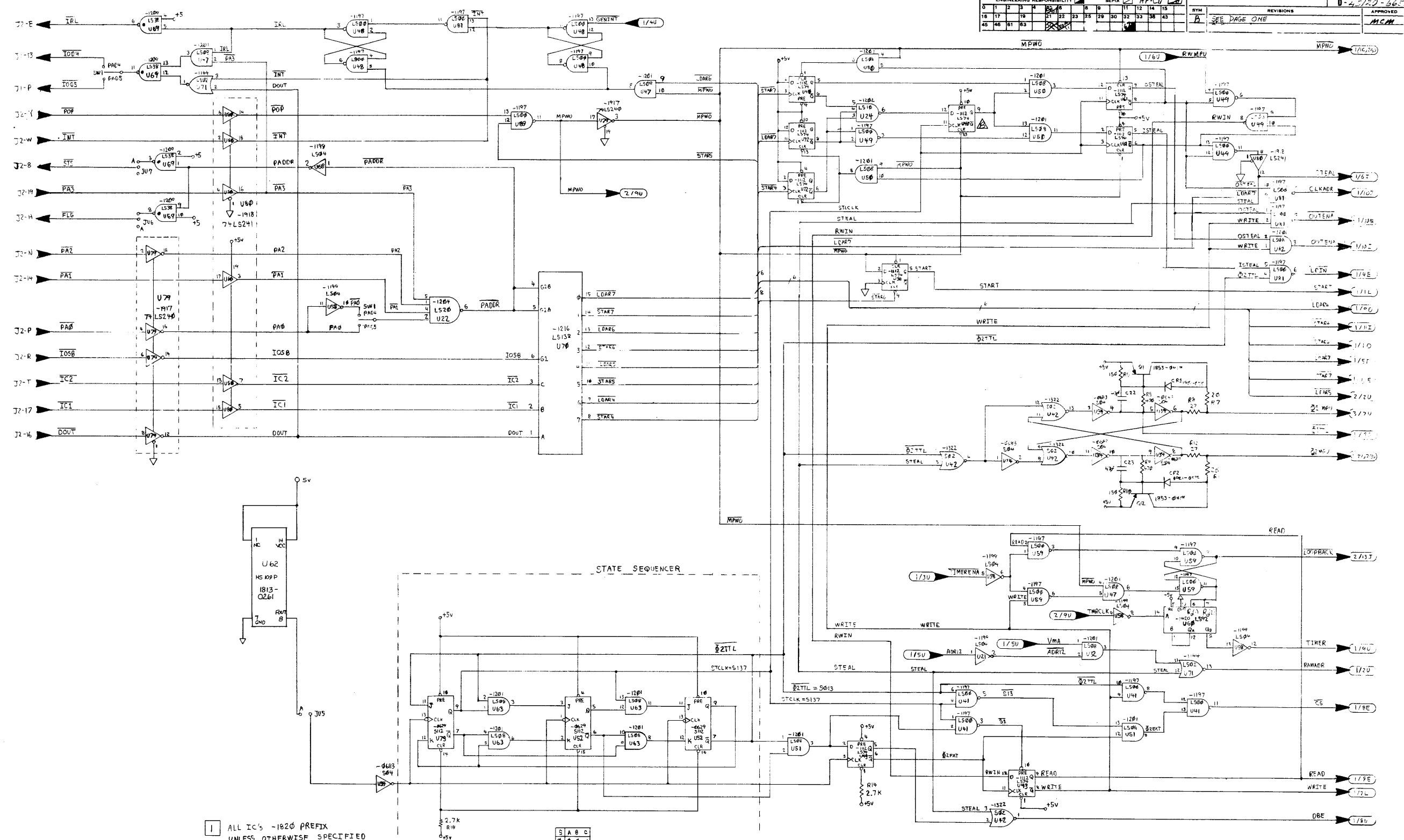
45120-66550 PART NUMBER
D-45120-66550-K SCALE

ENGINEERING RESPONSIBILITY										APPROVED										DATE									
[Signature]										[Signature]										[Date]									
18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1										18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1										18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1									
48 46 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2										48 46 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2										48 46 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2									



- 1 ALL IC'S 1820-PREFIX UNLESS OTHERWISE SPECIFIED
- 2 ALL R's AND C's IN OHMS AND MICROFARADS UNLESS NOTED

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS		THIRD ANGLE PROJECTION		TOLERANCES: XX ± 0.5 mm or ± 0.4 mm XX.X ± 0.2 mm or ± 0.1 mm STRIKE OUT ONE XX AND ONE XX.X SEE CORP. STD. 808		DO NOT SCALE THIS DRAWING	
ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWS. NO.	MAT'L SPEC.	ASYNCHRONOUS DATA COMMUNICATIONS BOARD SCHEMATIC OF UARTS TITLE AND RS-232C	
HEWLETT-PACKARD PERM. PRINT						45120A	
NEXT ASSEMBLY						PART NUMBER	
FINISH						SCALE	
D-45120-66550-16						SHEET 2 OF 3	



- 1 ALL IC's -1820 PREFIX UNLESS OTHERWISE SPECIFIED
- 2 ALL R'S AND C'S IN OHMS AND MICROFARADS UNLESS NOTED.

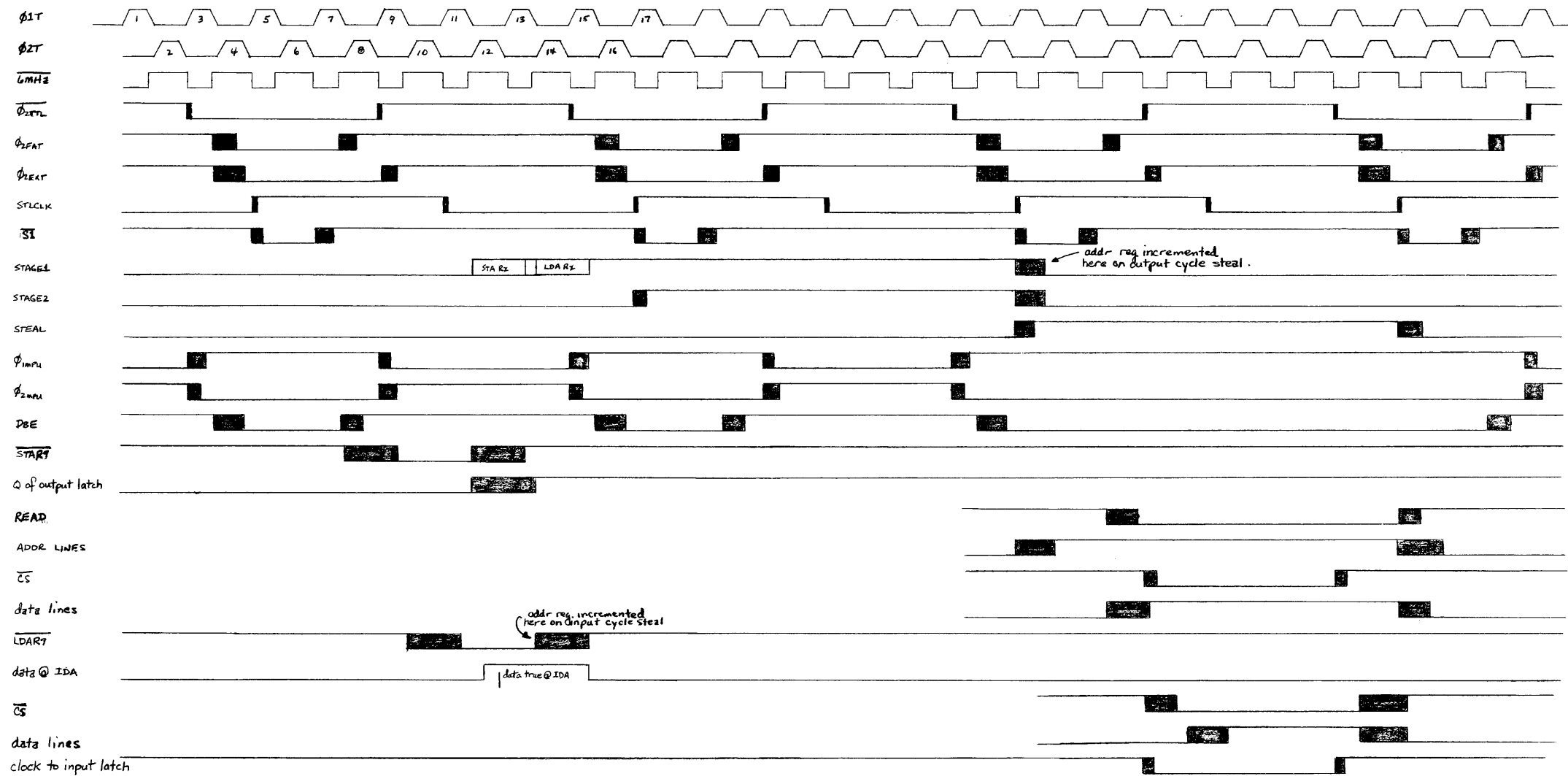
S	A	B	C
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1	0	0	1
2	0	1	1
3	0	1	1
4	1	1	1
5	1	1	1
6	1	1	0
7	1	1	1
8	1	0	0
9	0	0	0

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES		ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG. NO.	MAT'L SPEC.
THIRD ANGLE PROJECTION		ASYNCHRONOUS DATA COMMUNICATIONS BOARD SCHEMATIC OF TIMING AND CONTROL					
TOLERANCES: XX ± 0.5 mm or ± 0.4 mm XX.X ± 0.2 mm or ± 0.1 mm STRIKE OUT ONE XX AND ONE XX X SEE COM. STD. 609		HEWLETT PACKARD PERM. PRINT					
DO NOT SCALE THIS DRAWING		45120A PART NUMBER					
		45120-66550 PART NUMBER					
		D-45120-66550-16					
		FINISH SCALE SHEET 3 OF 3					

ENGINEERING RESPONSIBILITY												SEPIA				C-45120-66550-19					
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16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	MCM	10/11/68
36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55		
SYM A												AS ISSUED									

CYCLE STEAL TIMING

167 nsec



ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG. NO.	MAT'L SPEC.
DO NOT SCALE THIS DRAWING UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES .XX ± .02 .XXX ± .005 SEE CORP. STD. 608			CYCLE STEAL TIMING DIAGRAM TITLE 45120A NEXT ASSEMBLY FINISH SCALE		HEWLETT PACKARD TRIA PRINT PART NUMBER C-45120-66550-19 SHEET 1 OF 2

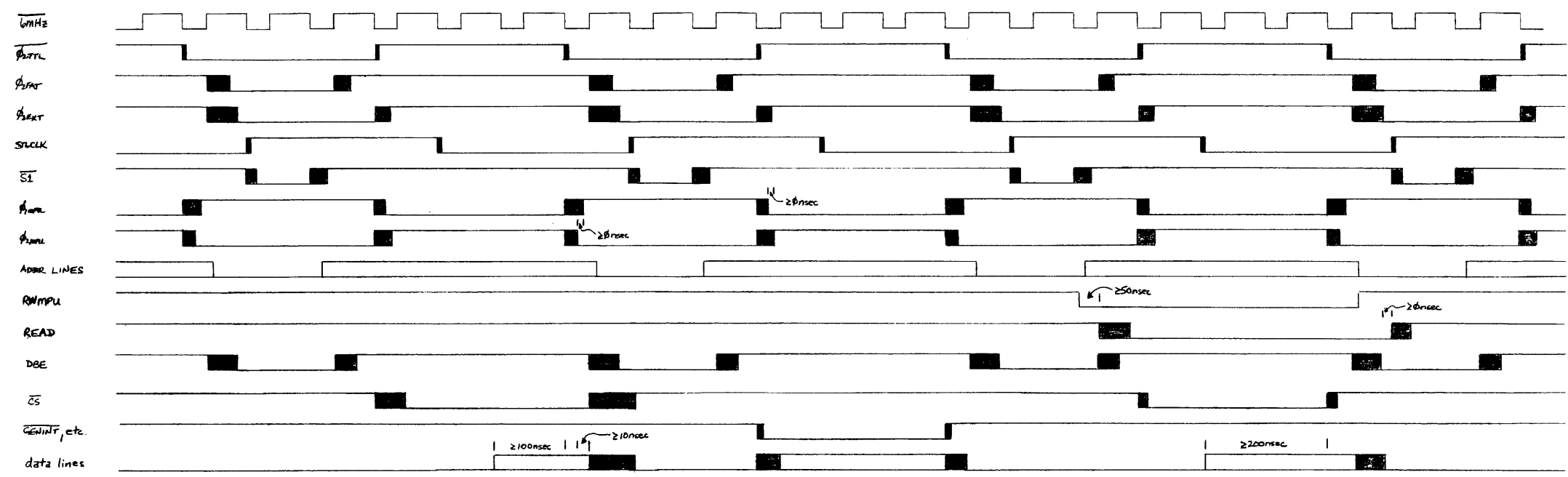
ENGINEERING RESPONSIBILITY															SEPIA																														
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C-45120-66550-19

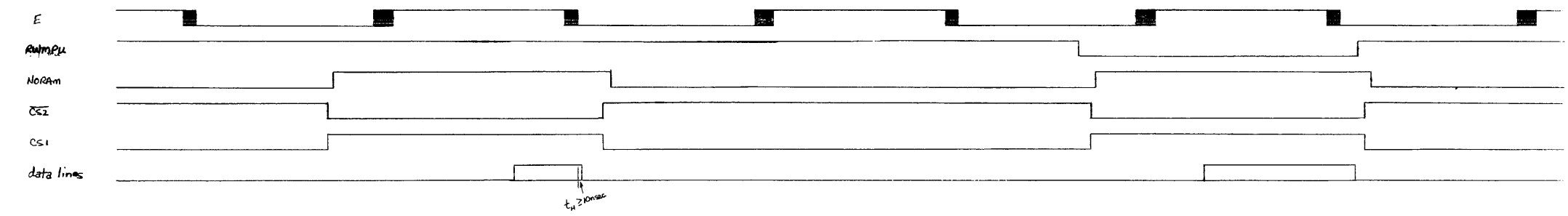
SYM	REVISIONS	APPROVED	DATE
A	AS ISSUED	MCM	10/19/68

READ/WRITE RAM TIMING

167nsec



ACIA TIMING



DO NOT SCALE THIS DRAWING		UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.		TOLERANCES .XX ± .02 .XXX ± .005		SEE CORP. STD. 608	
ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG. NO.	MAT'L SPEC.	TITLE	
						RAM & ACIA TIMING DIAGRAMS	
						HEWLETT PACKARD PERM. PRINT	
						PART NUMBER	
						C-45120-66550-19	
						FINISH SCALE	

ENGINEERING RESPONSIBILITY										SEPIA				
0	1	2	3	4	6	8	9	11	12	14	15			
16	17		19		21	22	23	25	29	30	32	33	38	43
45	46	61	63		50			57			53			

B-45120-66551-2

SYM	REVISIONS	APPROVED	DATE
A	AS ISSUED	<i>[Signature]</i>	1/20/78

Q1
R1
R2

Q2
R6
R7
R8
R9

Q3
R11
R12

Q4
R16
R17

Q5
R25
R26
R27
R28

Q6
R29
R30
R31
R32

Q7
R33
R34
R35
R36

Q8
R37
R38
R39
R40

Q9
R41
R42
R43
R44

Q10
R45

U1
U2
U3
U4
U5
U6
U7
U8
U9
U10

CR11
R46

CR12
R47

CR13
R48
R49

CR14
R49

CR15
R50

C1
C2
C3

C4

C5

C6

C7


C8

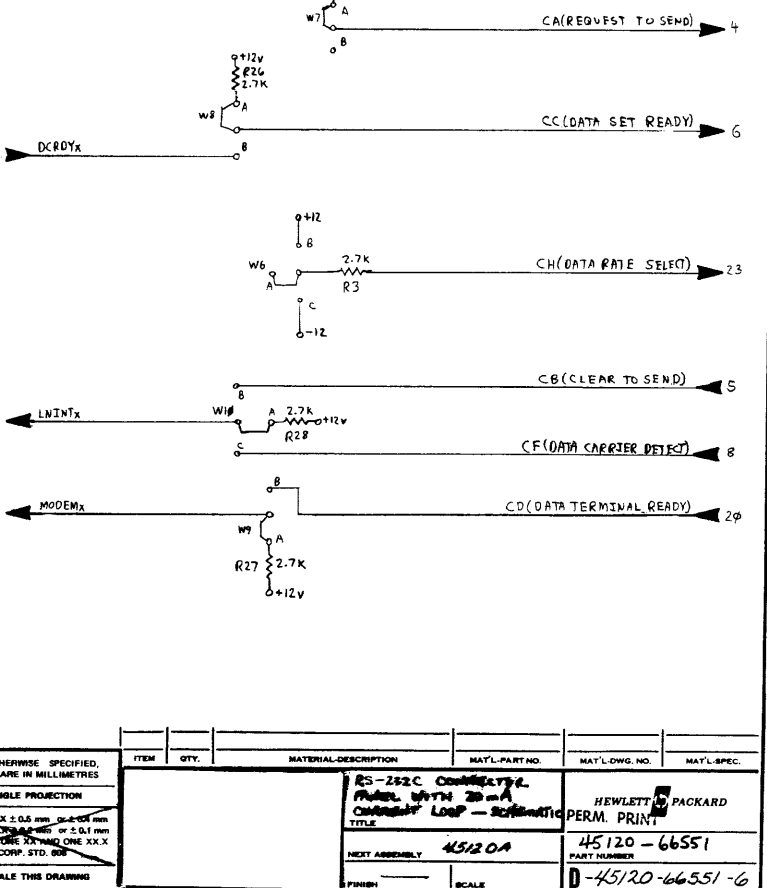
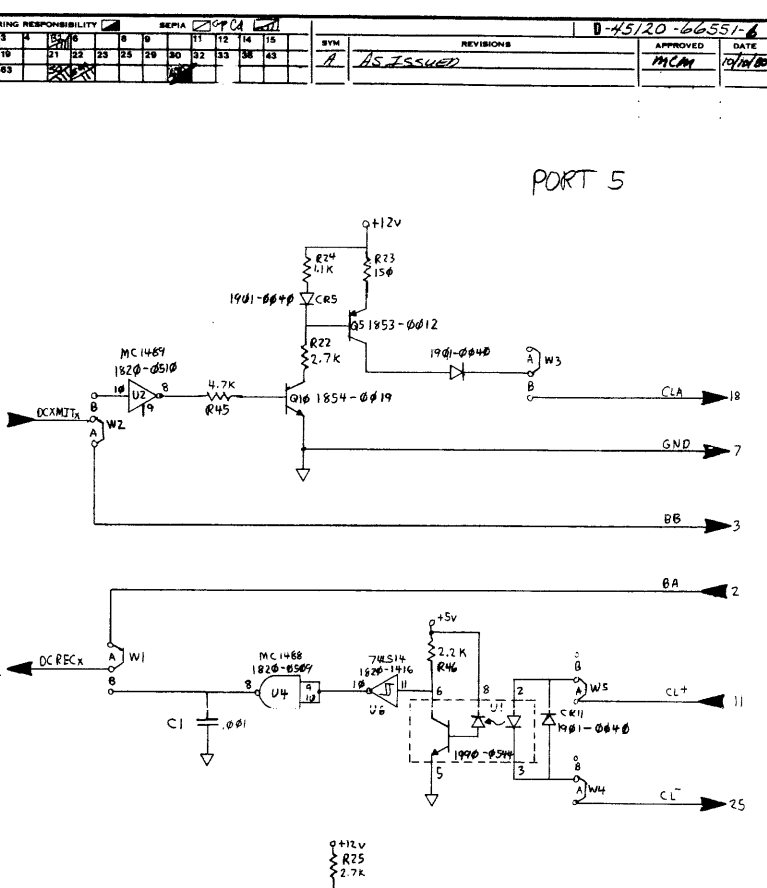
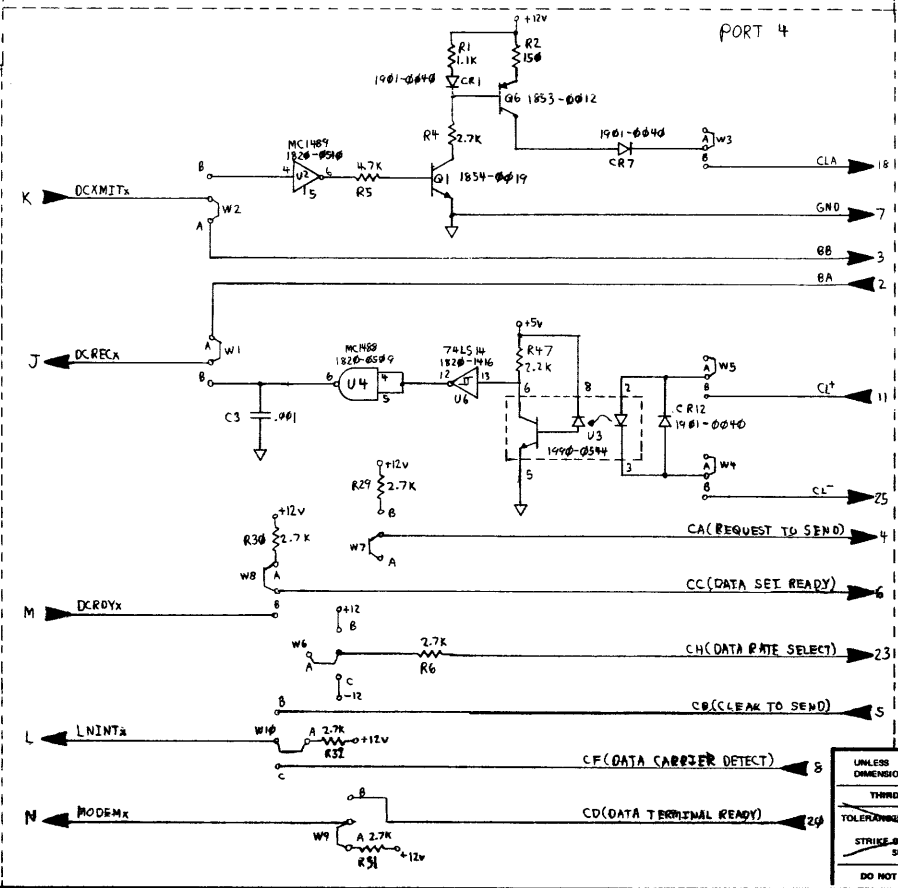
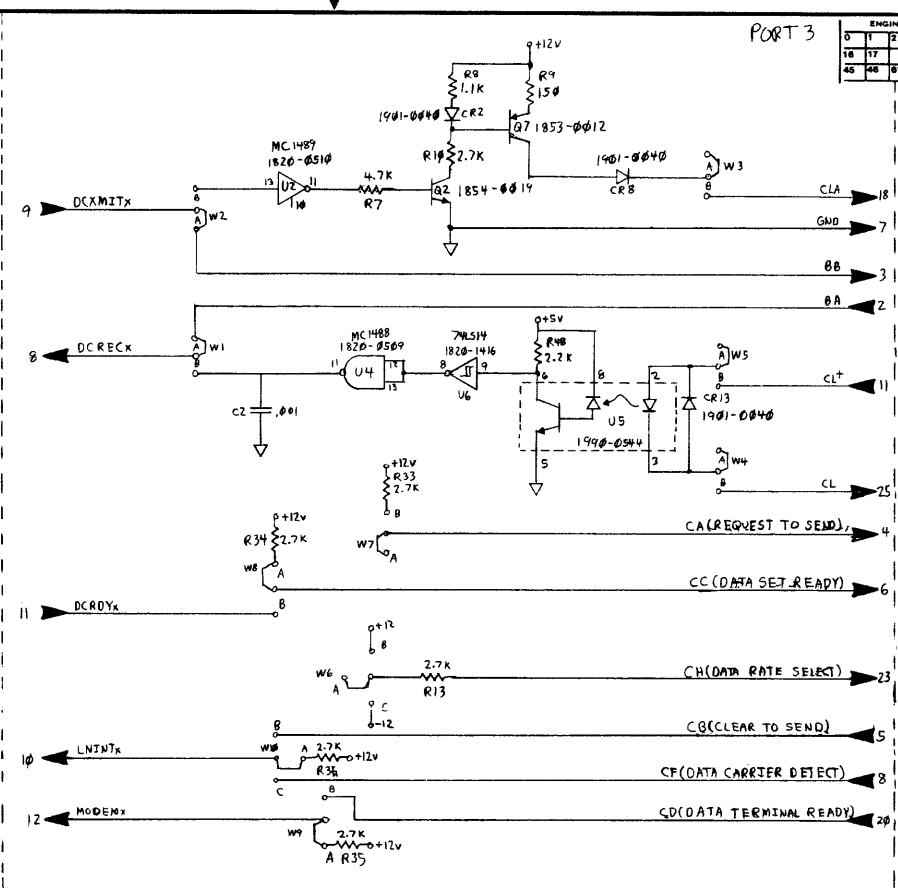
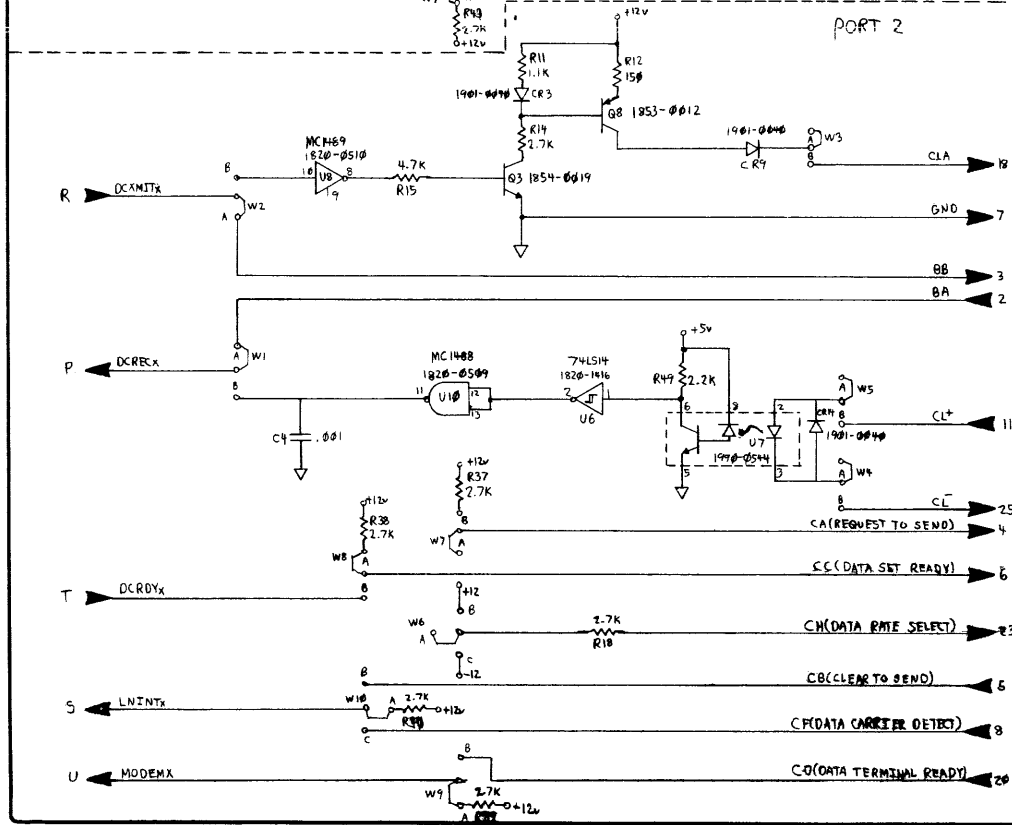
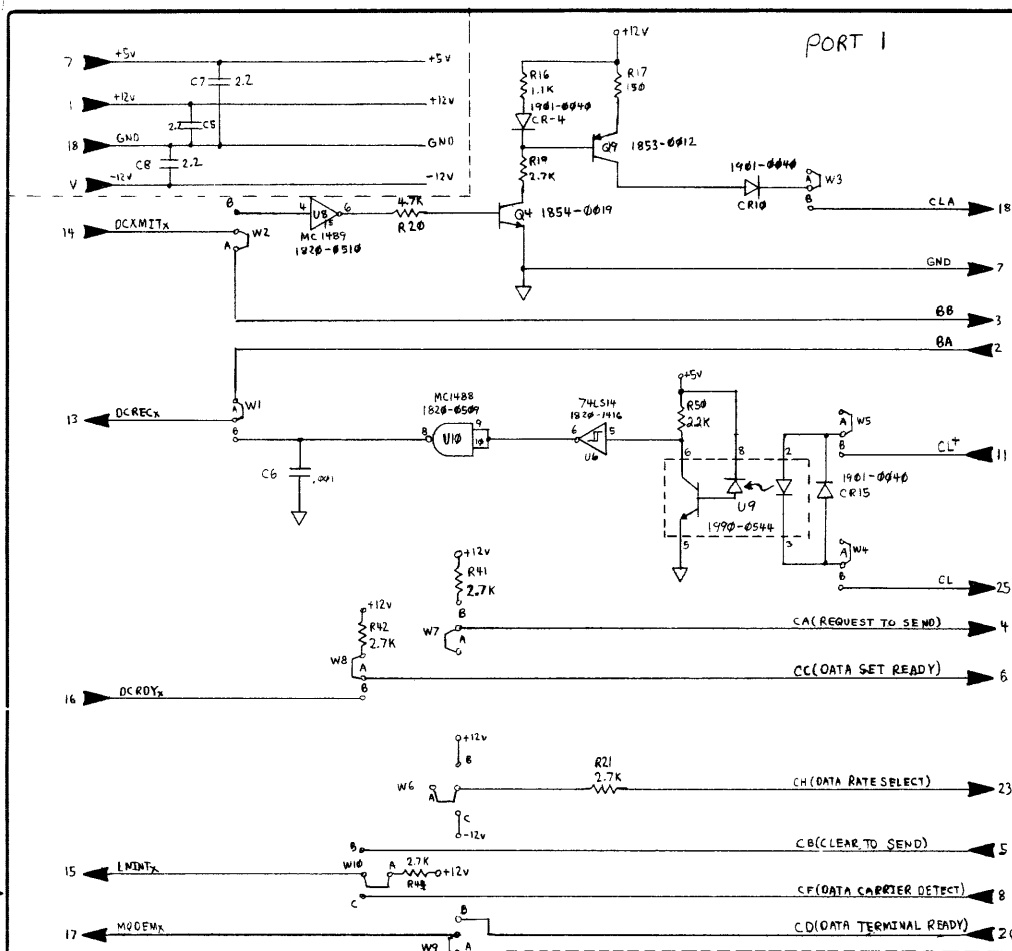
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
XX.X ± 0.2 mm or ± 0.1 mm
STRIKE OUT ONE XX AND ONE XX.X
SEE CORP. STD. 608

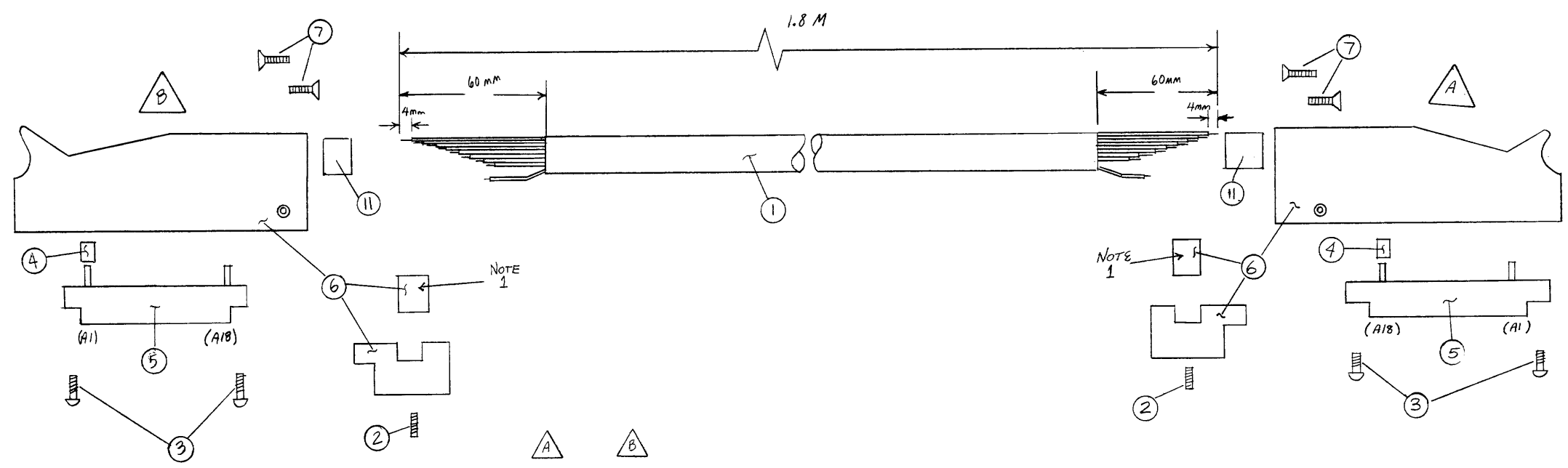
DO NOT SCALE THIS DRAWING

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
		REF. LOCATOR	HEWLETT  PACKARD		
TITLE			PART NUMBER		
NEXT ASSEMBLY			B-45120-66551-2		
FINISH		SCALE			



ITEM	QTY.	MATERIAL DESCRIPTION	MATL. PART NO.	MATL. DWG. NO.	MATL. SPEC.
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES THIRD ANGLE PROJECTION TOLERANCES: XX ± 0.5 mm, XX ± 0.01 mm, XX ± 0.02 mm, XX ± 0.01 mm STRIKE OUT ONE OR MORE XX'S SEE CORP. STD. 008 DO NOT SCALE THIS DRAWING					
QD-282C COMPLETE PARTS LIST COMMERCIAL LOOP - SCHEMATIC			HEWLETT-PACKARD PERM. PRINT PART NUMBER 45120-66551		
NEXT ASSEMBLY: 45120A			SCALE: D-45120-66551-6		

ENGINEERING RESPONSIBILITY															SEPIA					C-45122-61600-1															
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	SYN					REVISIONS					APPROVED					DATE				
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	A					AS ISSUED					K B					7-17-80				
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47																				



CONN	COLOR
A1	WHT (w/ BLK)
A2	Shield
A3	WHT (w/ GRN)
A4	GRN
A5	WHT/BRN/RED
A6	WHT/BRN/ORN
A7	WHT/BRN/YEL
A8	WHT/GRN/GRN
A9	WHT/BLK/GRN
A10	WHT/BLK/BRN
A11	WHT/BRN
A12	WHT/RED
A13	WHT/ORN
A14	WHT/YEL
A15	WHT (w/ORN)
A16	WHT (w/RED)
A17	ORN & (w/GRN)
A18	WHT (w/BRN)
B18	BRN
B17	WHT (w/YEL) & GRN
B16	RED
B15	YEL
B14	WHT/GRN
B13	WHT/BLU
B12	WHT/VIO
B11	WHT/GRN
B10	WHT/BLK/RED
B9	WHT/BLK/ORN
B8	WHT/BLK/YEL
B7	WHT/BLK/GRN
B6	WHT/BLK/BLU
B5	WHT/BLK/VIO
B4	WHT (w/BLU)
B3	BLU
B2	VIO
B1	BLK

NOTE 1: USE SMALL CLAMP

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
8	4	Heat-shrink (20 ga.)	0890-0708		
7	4	SET SCREW, FLT HEAD	0624-0203		
6	2	HOOD, CONN. (w. BLK & CLAMP)	1251-4142		
5	2	CONNECTOR, 2 X 18	1251-2663		
4	16 in.	HEAT SHRINK	0890-0100		
3	4	SCREW, SELF TAPPING	0624-0098		
2	2	SET SCREW, #6-32	3030-0143		
1	1.8 M	CABLE, 10 TW PR, 20 Sgl, #26	8120-2788		

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES
 THIRD ANGLE PROJECTION
 TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
 XX.X ± 0.2 mm or ± 0.1 mm
 STRIKE OUT ONE XX AND ONE XX.X
 SEE CORP. STD. 608
 DO NOT SCALE THIS DRAWING

CABLE SYNC CONNECTOR

HEWLETT PACKARD

TITLE

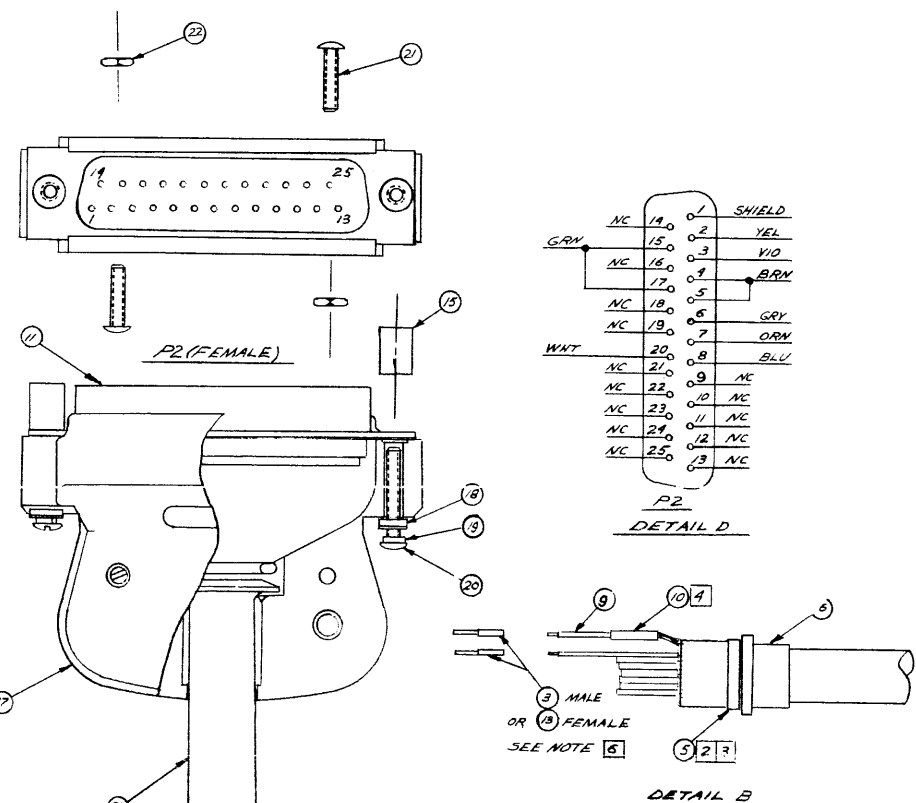
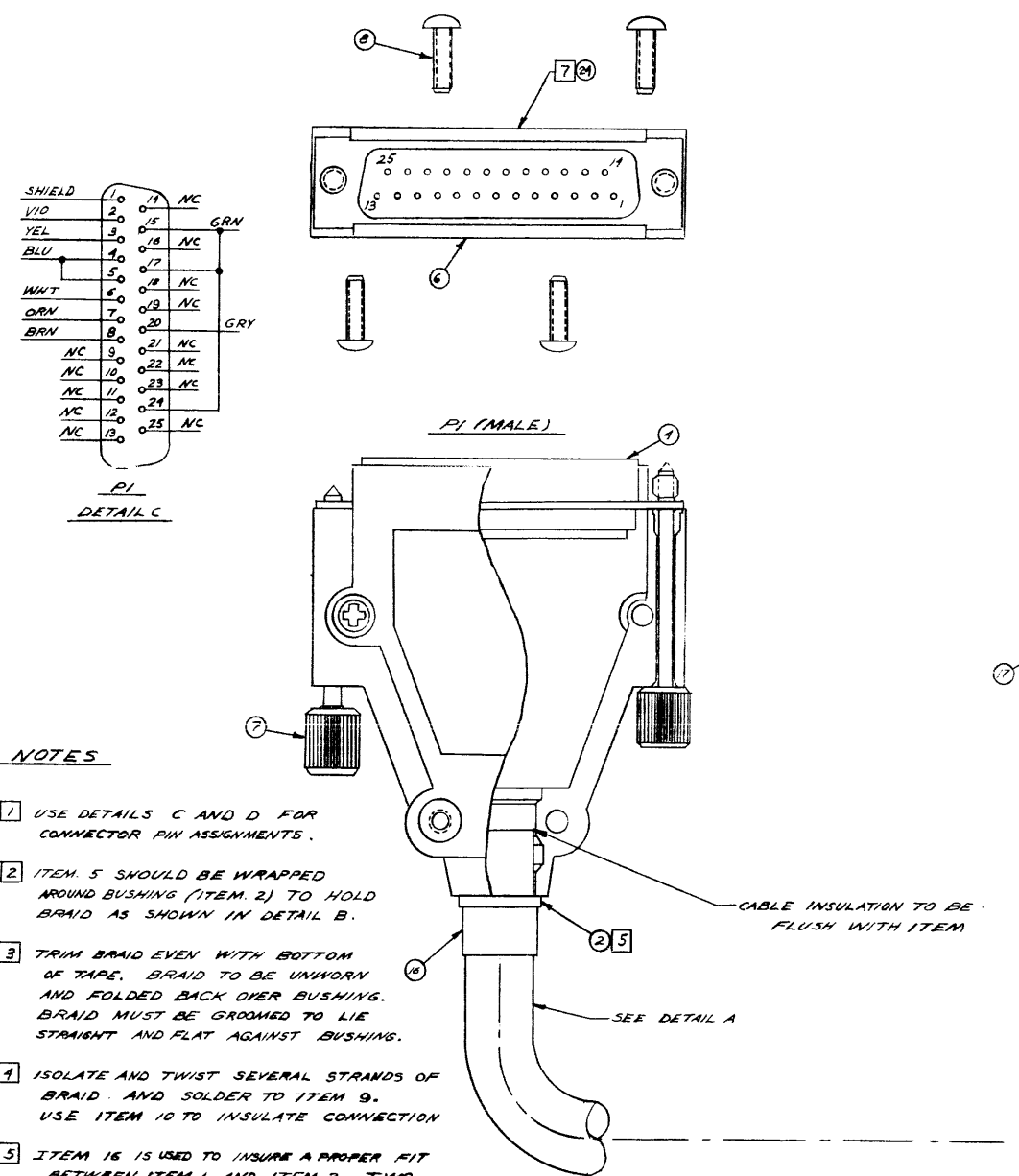
NEXT ASSEMBLY

SCALE

PART NUMBER

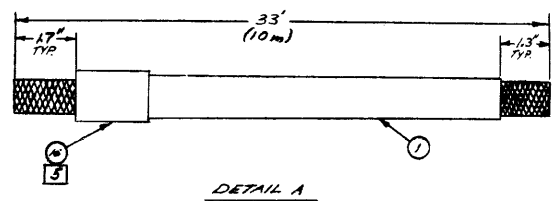
C-45122-61600-1

SHEET 1 OF 1



NOTES

- USE DETAILS C AND D FOR CONNECTOR PIN ASSIGNMENTS.
- ITEM 5 SHOULD BE WRAPPED AROUND BUSHING (ITEM 2) TO HOLD BRAID AS SHOWN IN DETAIL B.
- TRIM BRAID EVEN WITH BOTTOM OF TAPE. BRAID TO BE UNIFORM AND FOLDED BACK OVER BUSHING. BRAID MUST BE GROOMED TO LIE STRAIGHT AND FLAT AGAINST BUSHING.
- ISOLATE AND TWIST SEVERAL STRANDS OF BRAID AND SOLDER TO ITEM 9. USE ITEM 10 TO INSULATE CONNECTION.
- ITEM 16 IS USED TO INSURE A PROPER FIT BETWEEN ITEM 1 AND ITEM 2. TWO LAYERS MAY BE REQUIRED.
- USE ITEM 12 (MALE) OR 14 (FEMALE) IN PLACE OF 3 OR 13 WHEN TWO WIRES ARE TO BE CONNECTED TO A PIN. USE ITEM 9 FOR JUMPER WIRES.
- LABEL MALE END OF CABLE (P1) PER HP DWG. B-45122-00304-1. LABEL TO BE ON SURFACE SHOWN.



ITEM	QTY	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
24	1	LABEL	7121-0692		
23	1	BUSHING FLEX	1251-0352		
22	2	NUT 4-40 HEX	2260-0001		
21	2	SCR-MACH 4-40 .5 IN	2220-0010		
20	2	SCR-MACH 4-40 .688 IN	2200-0757		
19	2	WSHR-LK HLCL	2190-0078		
18	2	HOOD CLAMP	1251-3328		
17	2	HOOD HALF SHELL	1251-3320		
16	1.5 IN	TBG-AS .375 DIA	0890-0201		
15	2	STDF-RND .25 IN	0380-0174		
14	2	CONTACT CONN F 20 GA	1251-3252		
13	8	CONTACT CONN F	1251-3251		
12	8	CONTACT CONN M 20 GA	1251-3250		
11	1	CONN 25 PIN F	1251-2416		
10	1 IN	SHRINK TUBE - BLK	0890-0311		
9	8 IN	WIRE 24 GA. W-BN-GRN	8150-0477		
8	1	ST 110 .375 RHPD	0624-0089		
7	2	SCR CAPTIVE 4-40	1390-0431		
6	2	CSTG AL CONN SHELL	0050-1046		
5	2 IN	TAPE	0460-1134		
4	1	CONN 25 PIN M	1251-2417		
3	8	CONTACT CONN M	1251-3253		
2	1	BUSHING	0400-0064		
1	33 FT	CABLE	8120-0822		

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
 XX.X ± 0.2 mm or ± 0.1 mm
 STRIKE OUT ONE XX AND ONE XX.X
 SEE CORP. STD. 608

DO NOT SCALE THIS DRAWING

Synchronous Direct
Connect Cable

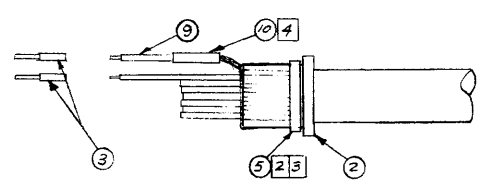
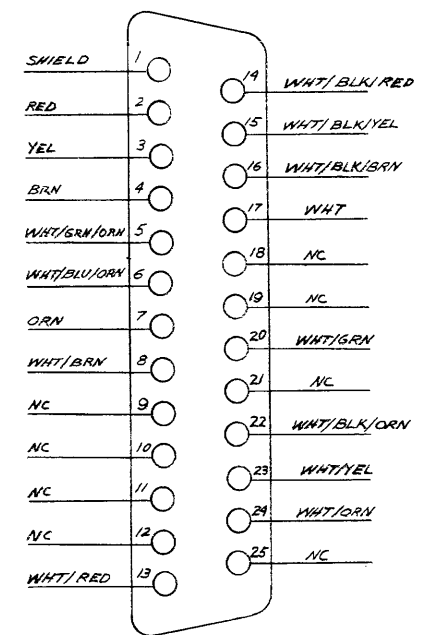
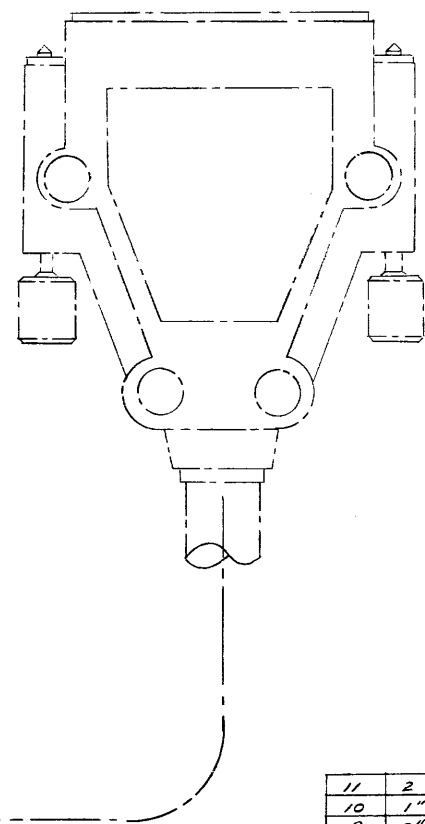
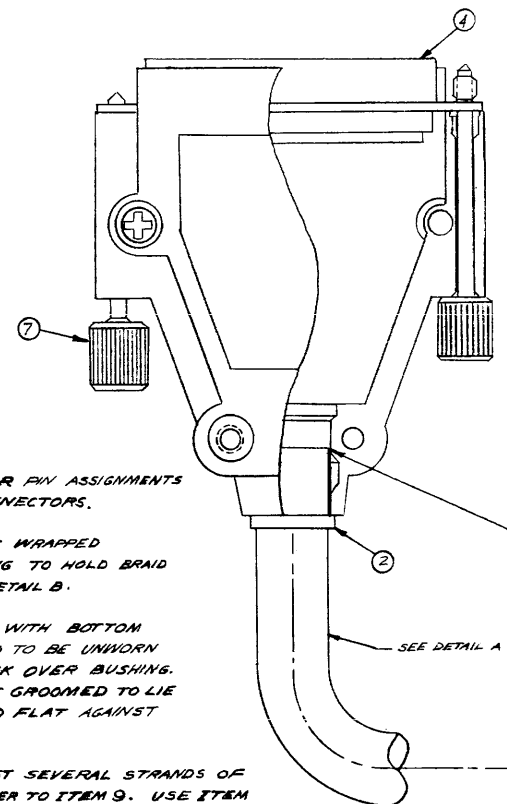
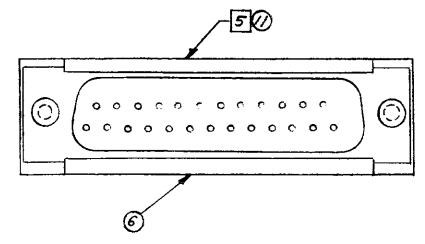
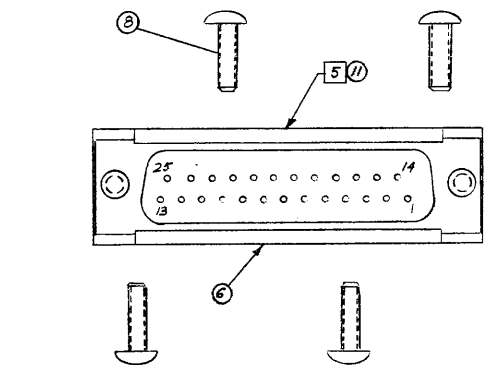
HEWLETT PACKARD

45122-61601
PART NUMBER

C-45122-61601-1

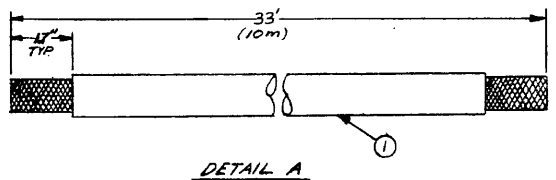
FINISH: NONE
SCALE: NONE

ENGINEERING RESPONSIBILITY															SEPIA					C-45122-61602-1	
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16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	A	AS ISSUED		A B	4-7-72	
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47						
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63						



NOTES

- 1 USE DETAIL C FOR PIN ASSIGNMENTS FOR BOTH CONNECTORS.
- 2 ITEM 5 SHOULD BE WRAPPED AROUND BUSHING TO HOLD BRAID AS SHOWN IN DETAIL B.
- 3 TRIM BRAID EVEN WITH BOTTOM OF TAPE. BRAID TO BE UNIFORM AND FOLDED BACK OVER BUSHING. BRAID MUST BE GROOMED TO LIE STRAIGHT AND FLAT AGAINST BUSHING.
- 4 ISOLATE AND TWIST SEVERAL STRANDS OF BRAID AND SOLDER TO ITEM 9. USE ITEM 10 TO INSULATE CONNECTION.
- 5 LABEL BOTH ENDS OF CABLE ON SURFACES SHOWN PER HP DWG. B-45122-90304-1.



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
 XX.X ± 0.2 mm or ± 0.1 mm
 STRIKE OUT ONE XX AND ONE XX.X
 SEE CORP. STD. 608

DO NOT SCALE THIS DRAWING

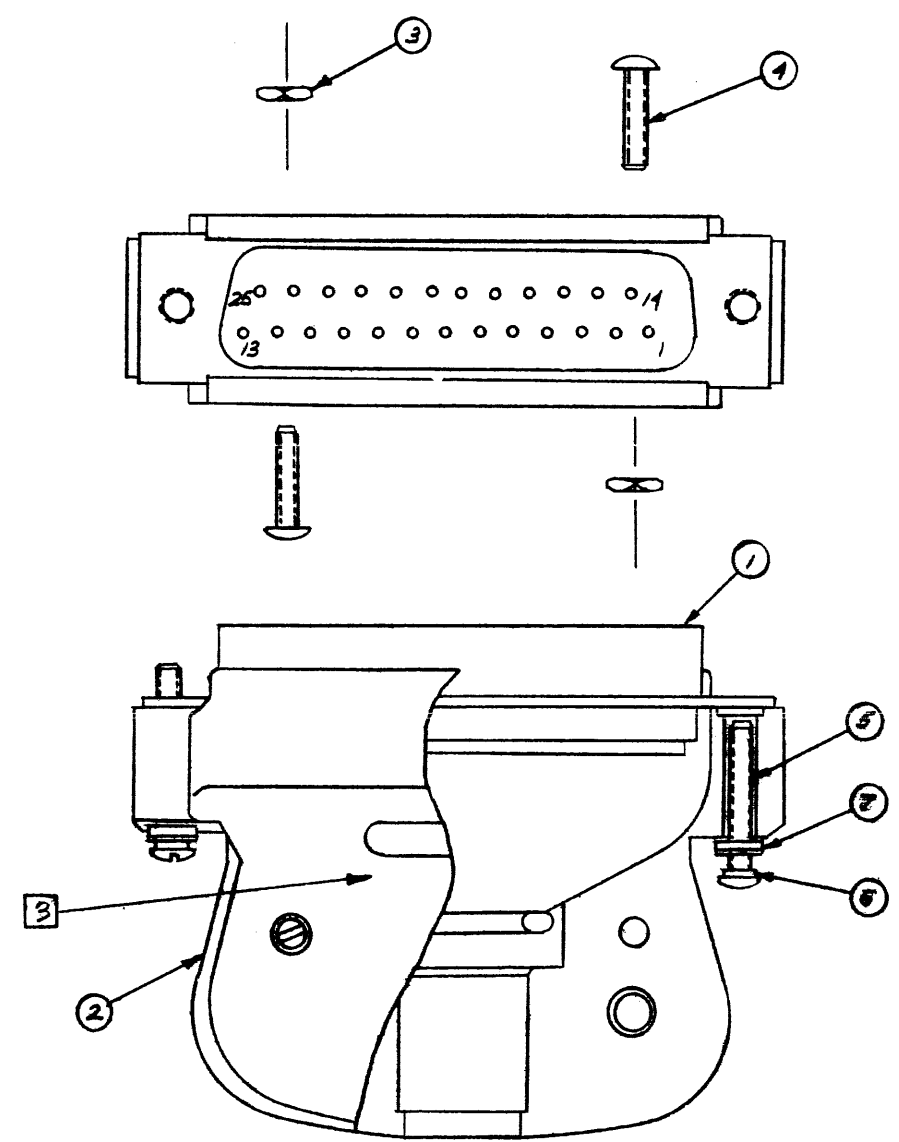
ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
11	2	LABEL	7121-0693		
10	1"	SHRINK TUBE - BLK	0890-0311		
9	2"	WIRE 26GA - BLK	0150-0135		
8	8	ST 440 .375 PMPD	0624-0099		
7	4	SCR CAPTIVE 4-40	1390-0431		
6	4	CSTG AL CONN SHL	0050-1916		
5	2"	TAPE	0460-1134		
4	2	CONN 25 PIN M	1251-2417		
3	36	CONTACT CONN M	1251-3253		
2	2	BUSHING	0400-0064		
1	33FT	CABLE	8120-2398		

Modem/ACU Cable		HEWLETT PACKARD
TITLE		45122-61602
NEXT ASSEMBLY		PART NUMBER
FINISH	SCALE	C-45122-61602-1
	NONE	

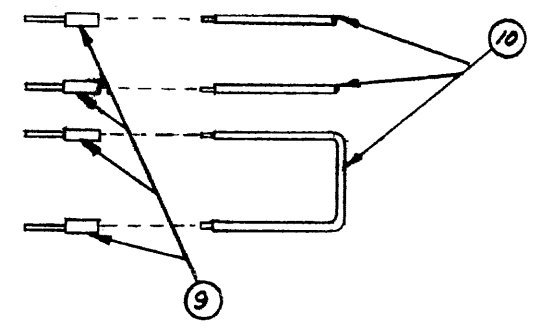
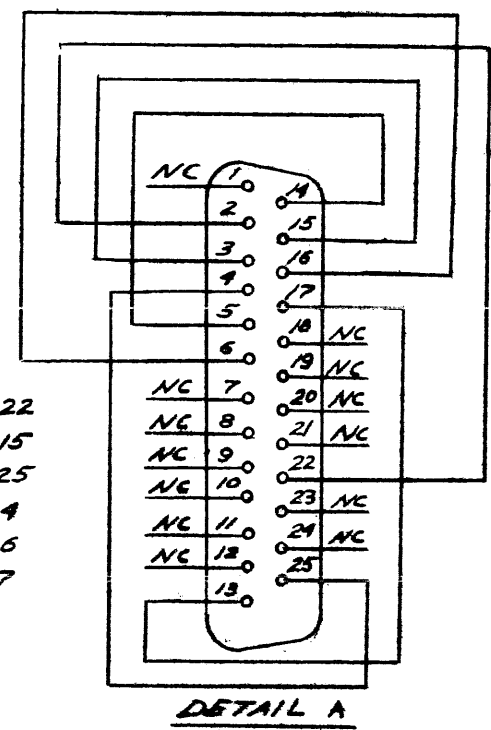
ENGINEERING RESPONSIBILITY											SEPIA				APCD																																		
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SYM		REVISIONS		APPROVED	DATE
A	AS ISSUED			R.B.	1-5-80
B	ITEM 11 WAS 12X-0654; ADDED NOTE 3 PCO 67-0091			MEP	8-28-81

B-45122-62101-1



- 2-22
- 3-15
- 4-25
- 5-14
- 6-16
- 13-17



DETAIL B 2

NOTES

1. REFER TO DETAIL A FOR CONNECTOR PIN ASSIGNMENTS. USE ITEM 10 FOR JUMPERS.
2. ITEM 9 TO BE CRIMPED TO WIRE.
3. ATTACH PAPER LABEL (SIZE 1.25" X 0.30") WITH THE FOLLOWING PRINTED INFORMATION:
ACU SELF-TEST
45122-62101
THE PRINTED LABEL IS SUPPLIED BY GSD SOFTWARE MANUFACTURING

ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
11					
10	12 IN	WIRE 26 GA BLK	8150-0477		
9	12	CONTACT CONN M	1251-3253		
7	2	HOOD CLAMP	1251-3920		
6	2	MSHR-LK HLCL	2180-6078		
5	2	SCR-MACH 1-40 .688 IN	2200-0757		
4	2	SCR-MACH 1-40 .5 IN	2200-0757		
3	2	NUT 1-40 HEX	3360-0001		
2	2	HOOD HALF SHELL	1251-3920		
1	1	CONN RE PIN M	1251-2917		

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
XX.X ± 0.2 mm or ± 0.1 mm
STRIKE OUT ONE XX AND ONE XX.X
SEE CORP. STD. 608

DO NOT SCALE THIS DRAWING

Self-Test Hood
Acu Calling

TITLE

NEXT ASSEMBLY

FINISH

SCALE NONE

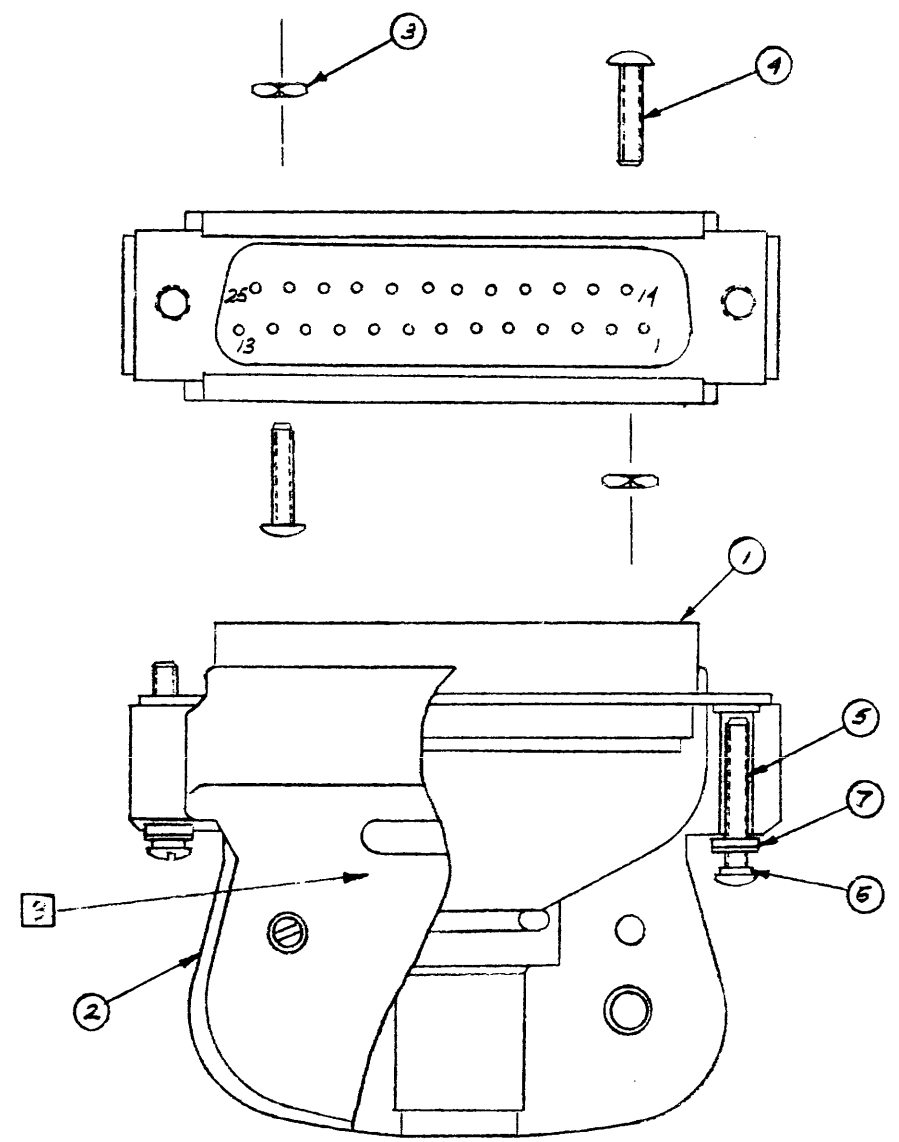
HEWLETT PACKARD

45122-62101
PART NUMBER

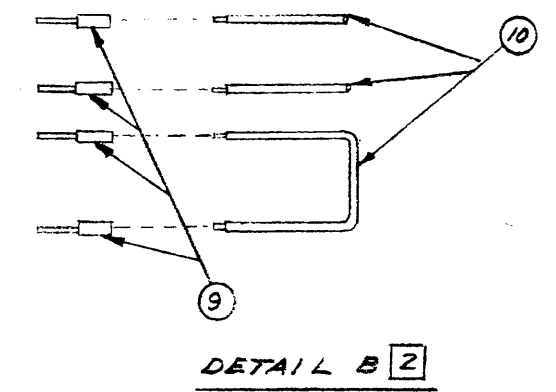
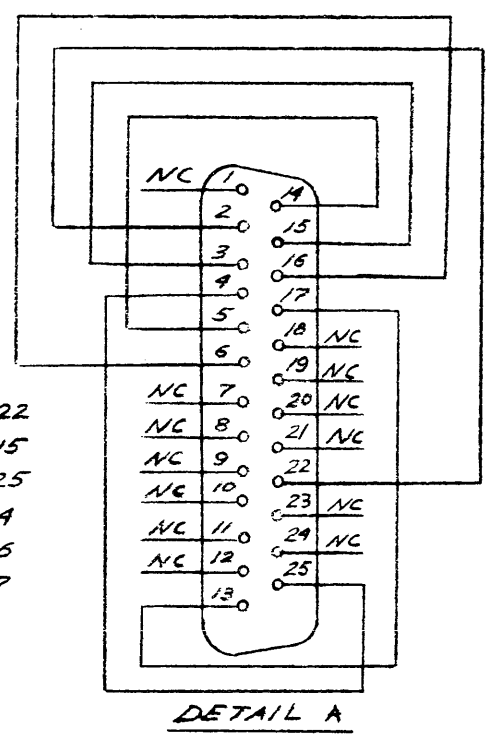
B-45122-62101-1

ENGINEERING RESPONSIBILITY										SEPIA					AP-CD																																																				
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B-45122-62102-1		APPROVED	DATE
SYM	REVISIONS	R.B.	1-5-80
A	AS ISSUED		
B	ITEM 11 WAS 7/21-0653; ADDED NOTE 3 PCO 67-0091	R.B.	8-28-81



- 2-22
- 3-15
- 4-25
- 5-14
- 6-16
- 13-17



NOTES

1. REFER TO DETAIL A FOR CONNECTOR PIN ASSIGNMENTS. USE ITEM 10 FOR JUMPERS.
2. ITEM 9 TO BE CRIMPED TO WIRE.
3. ATTACH PAPER LABEL (SIZE 1.25" X 0.30") WITH THE FOLLOWING PRINTED INFORMATION:
AS/SY SELF-TEST
45122-62102
THE PRINTED LABEL IS SUPPLIED BY GSD SOFTWARE MANUFACTURING

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

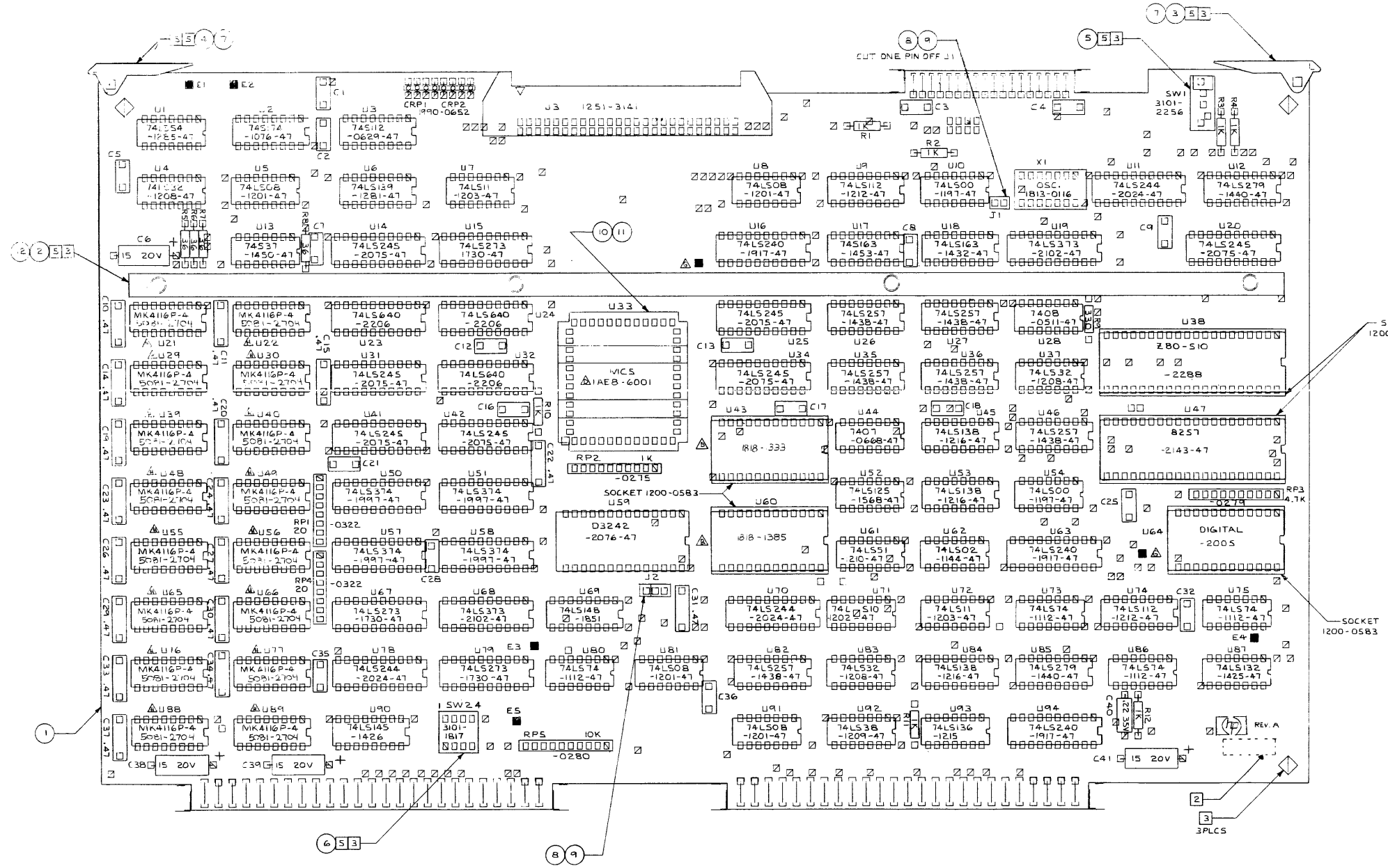
TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
XX.X ± 0.2 mm or ± 0.1 mm
STRIKE OUT ONE XX AND ONE XX.X
SEE CORP. STD. 608

DO NOT SCALE THIS DRAWING

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
11					
10	12 IN	WIRE 26 GA BLK	8150-0477		
9	12	CONTACT CONN M	1251-3253		
7	2	HOOD CLAMP	1251-3328		
6	2	WSHR-LK HLCL	2190-0078		
5	2	SCR-MACH 4-40 .688 IN	2200-0757		
4	2	SCR-MACH 4-46 .5 IN	2220-0010		
3	2	NUT 4-40 HEX	2250-0001		
2	2	HOOD HALF SHELL	1251-3320		
1	1	CONN 25 PIN M	1251-2417		

DRAWN BY	11-26-79	Self-Test Hood Async/Sync	HEWLETT PACKARD
DATE	11-30-79		
ENGINEER	3-5-80	NEXT ASSEMBLY	45122-62102
RELEASE TO PROD.		FINISH	PART NUMBER
SUPERSEDES DWG.		SCALE	B-45122-62102-1

ENGINEERING RESPONSIBILITY		REVISIONS		DATE
1	DATE CODE WAS 2038 PER P0047-229	1	DATE	12/22
2	REPLACE 1200-0583 WITH 1200-0844	2	DATE	12/22
3	REPLACE 1200-0583 WITH 1200-0844	3	DATE	12/22
4	REPLACE 1200-0583 WITH 1200-0844	4	DATE	12/22
5	REPLACE 1200-0583 WITH 1200-0844	5	DATE	12/22
6	REPLACE 1200-0583 WITH 1200-0844	6	DATE	12/22
7	REPLACE 1200-0583 WITH 1200-0844	7	DATE	12/22
8	REPLACE 1200-0583 WITH 1200-0844	8	DATE	12/22
9	REPLACE 1200-0583 WITH 1200-0844	9	DATE	12/22
10	REPLACE 1200-0583 WITH 1200-0844	10	DATE	12/22
11	REPLACE 1200-0583 WITH 1200-0844	11	DATE	12/22
12	REPLACE 1200-0583 WITH 1200-0844	12	DATE	12/22
13	REPLACE 1200-0583 WITH 1200-0844	13	DATE	12/22
14	REPLACE 1200-0583 WITH 1200-0844	14	DATE	12/22
15	REPLACE 1200-0583 WITH 1200-0844	15	DATE	12/22
16	REPLACE 1200-0583 WITH 1200-0844	16	DATE	12/22
17	REPLACE 1200-0583 WITH 1200-0844	17	DATE	12/22
18	REPLACE 1200-0583 WITH 1200-0844	18	DATE	12/22
19	REPLACE 1200-0583 WITH 1200-0844	19	DATE	12/22
20	REPLACE 1200-0583 WITH 1200-0844	20	DATE	12/22

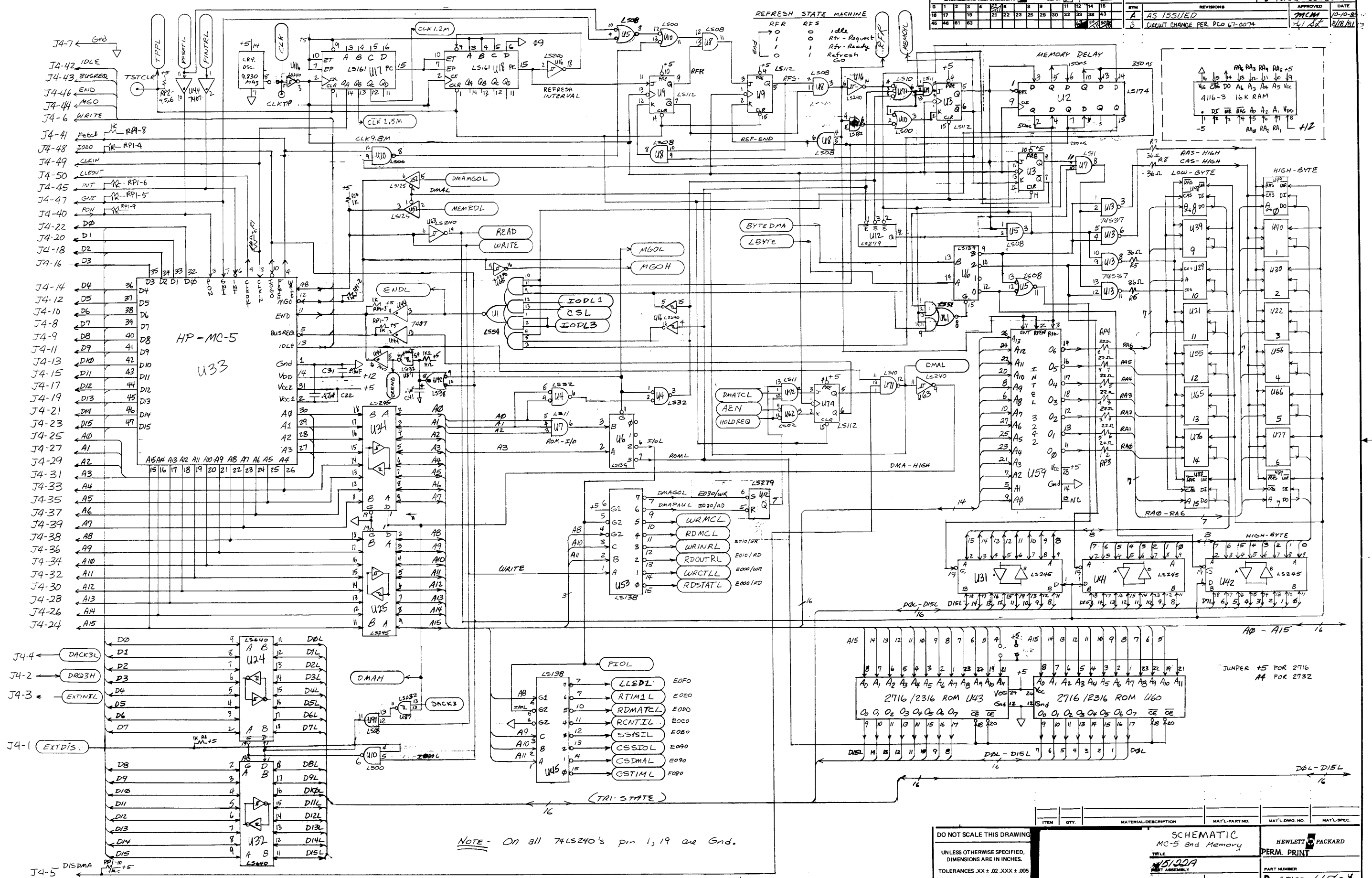


- NOTES.
- UNLESS OTHERWISE SPECIFIED, ALL RESISTANCE IN OHMS ALL RESISTORS 1/4 W 5% ALL RESISTOR NETWORKS ARE 1810- ALL CAPACITANCE IN MICROFARADS ALL CAPACITORS ARE .01W CERAMIC DISC. ALL IC'S ARE 1820-
 - MARK DATE CODE "2038" AND MADE IN USA
 - MASK AS INDICATED PRIOR TO LOADING.
 - USE SUPPORT FIXTURE DURING WAVE SOLDER
 - INSTALL ITEMS (2) THRU (7) AND (12) IN PC FINAL ASSY
 - SCHEMATIC D-45122-66560-6
 - REFER TO MODIFICATION 1.16. C-4700000-1
 - INSTALL ITEM (3) NEAR LOGO WHEN AT THE MECHANICAL INSPECTION STATION

ITEM	QTY	MATERIAL DESCRIPTION	MATERIAL PART NO	MATERIAL QTY	MATERIAL SPEC
13	1	LABEL - WARRANTY	7120-6830		
12	4	SCREW TAP 4-40 X.31	0624-0077		
11	2	CLIP SOCKET 4B PIN	1200-0844		
10	1	SOCKET 4B PIN	1200-0844		
9	2	CONNECTOR 4PIN MALE	1251-5033		
8	2	JUMPER REMOVABLE	1258-0141		
7	2	PIN GROOVE	1480-0116		
6	1	SWITCH ROCKER (SW2)	3101-1817		
5	1	SWITCH (SW1)	3101-2256		
4	1	EXTRACTOR CARD BLACK	4040-0748		
3	1	EXTRACTOR CARD WHITE	4040-0756		
2	1	PC BOARD BRACE	5040-6058		
		PC BOARD SYNC DATA	45122-26560		

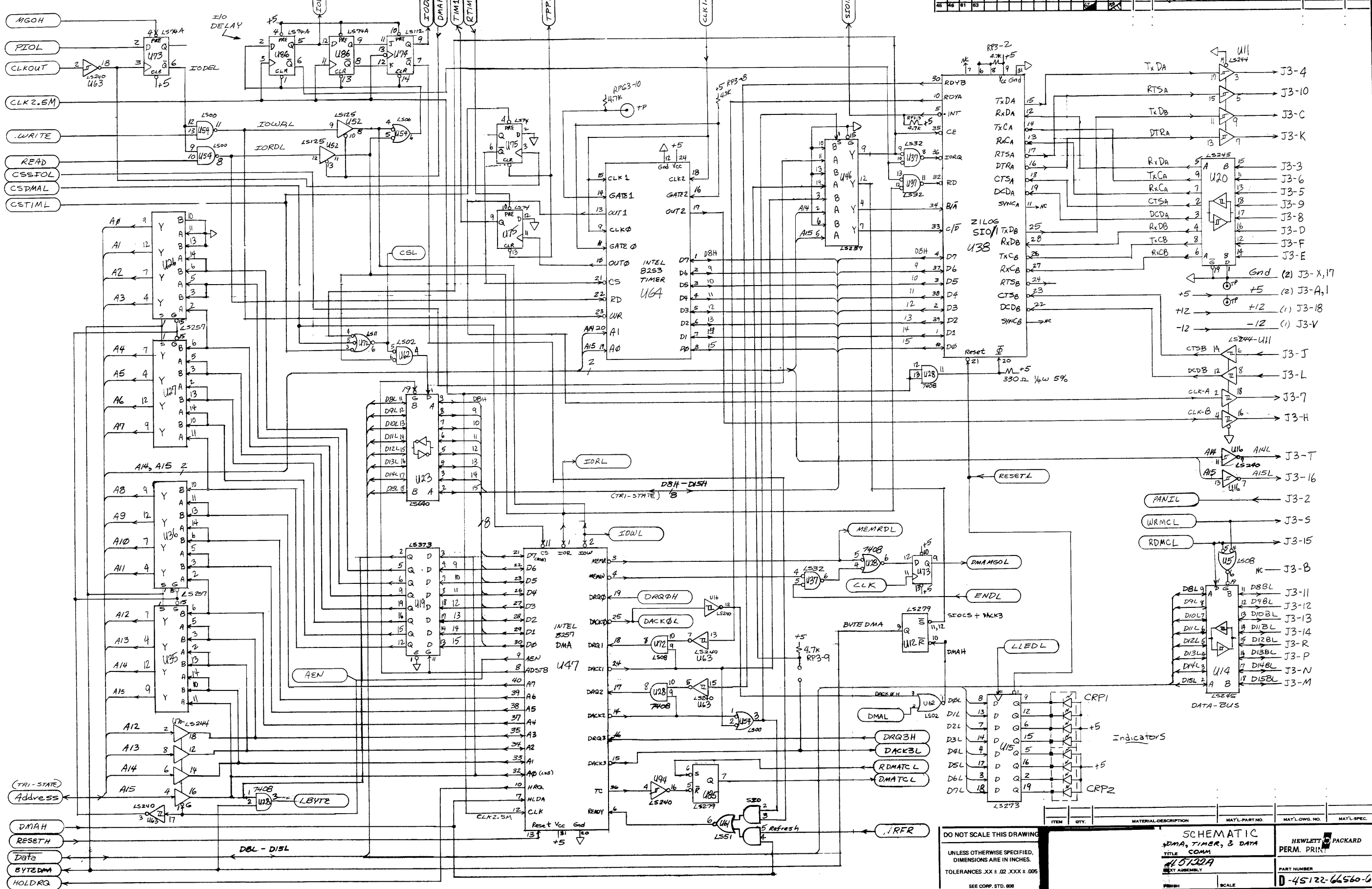
ASSEMBLY		HEWLETT PACKARD	
TITLE	DATA SYNC BOARD	PART NUMBER	45122-26500
REV	45122A	REV	F-45122-66560-1
SCALE	2:1	SHEET	1 OF 1

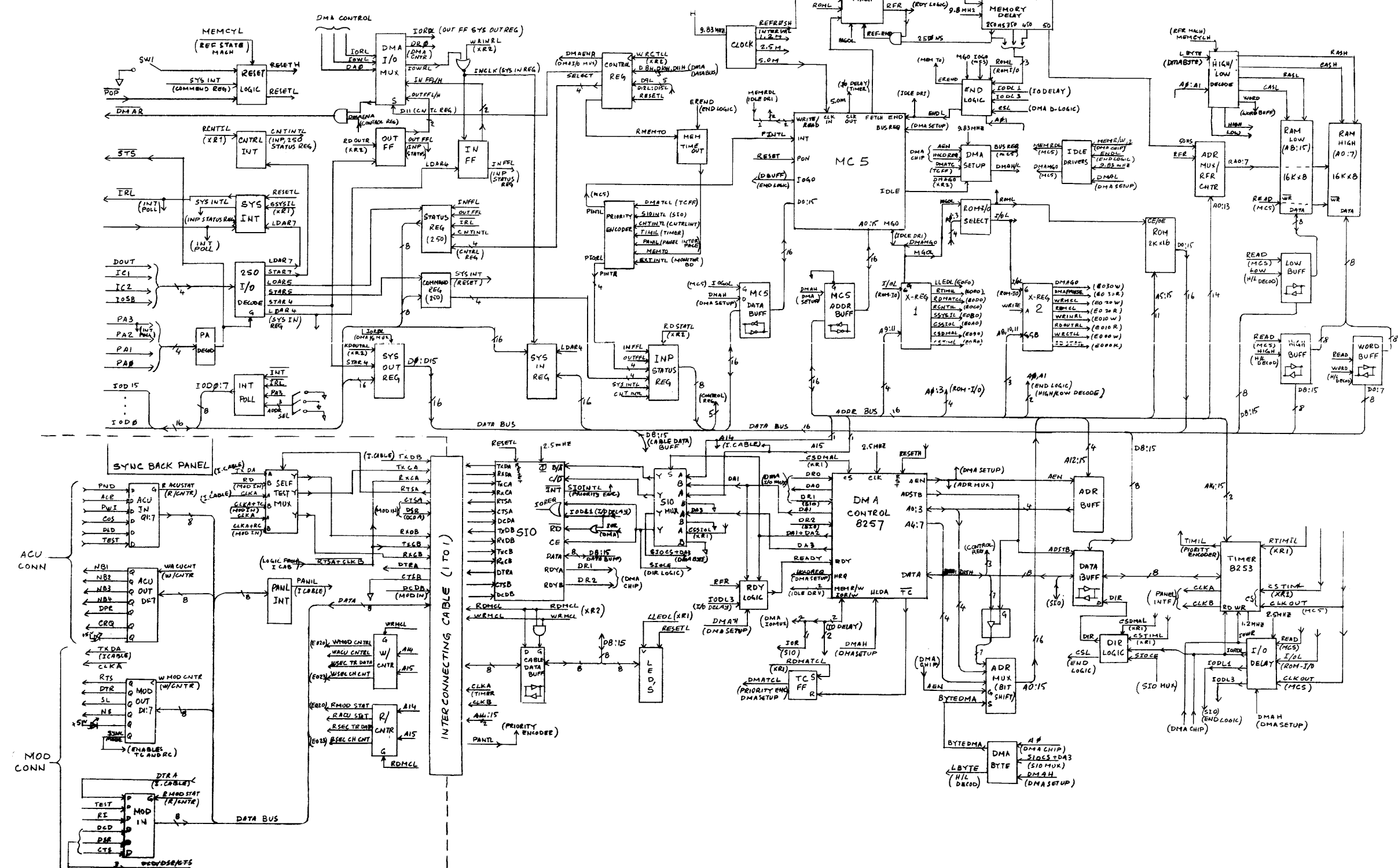
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DATE															APPROVED														
BY															DATE														
AS ISSUED															DATE														
CIRCUIT CHANGE PER PCO 67-0074															DATE														



NOTE - On all 74LS240's pin 1, 19 are Gnd.

DO NOT SCALE THIS DRAWING		SHEWLETT & PACKARD	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.		PERM. PRINT	
TOLERANCES .XX ± .02 .XXX ± .005		PART NUMBER	
SEE CORP. STD. 808		D-45122-66560-6	



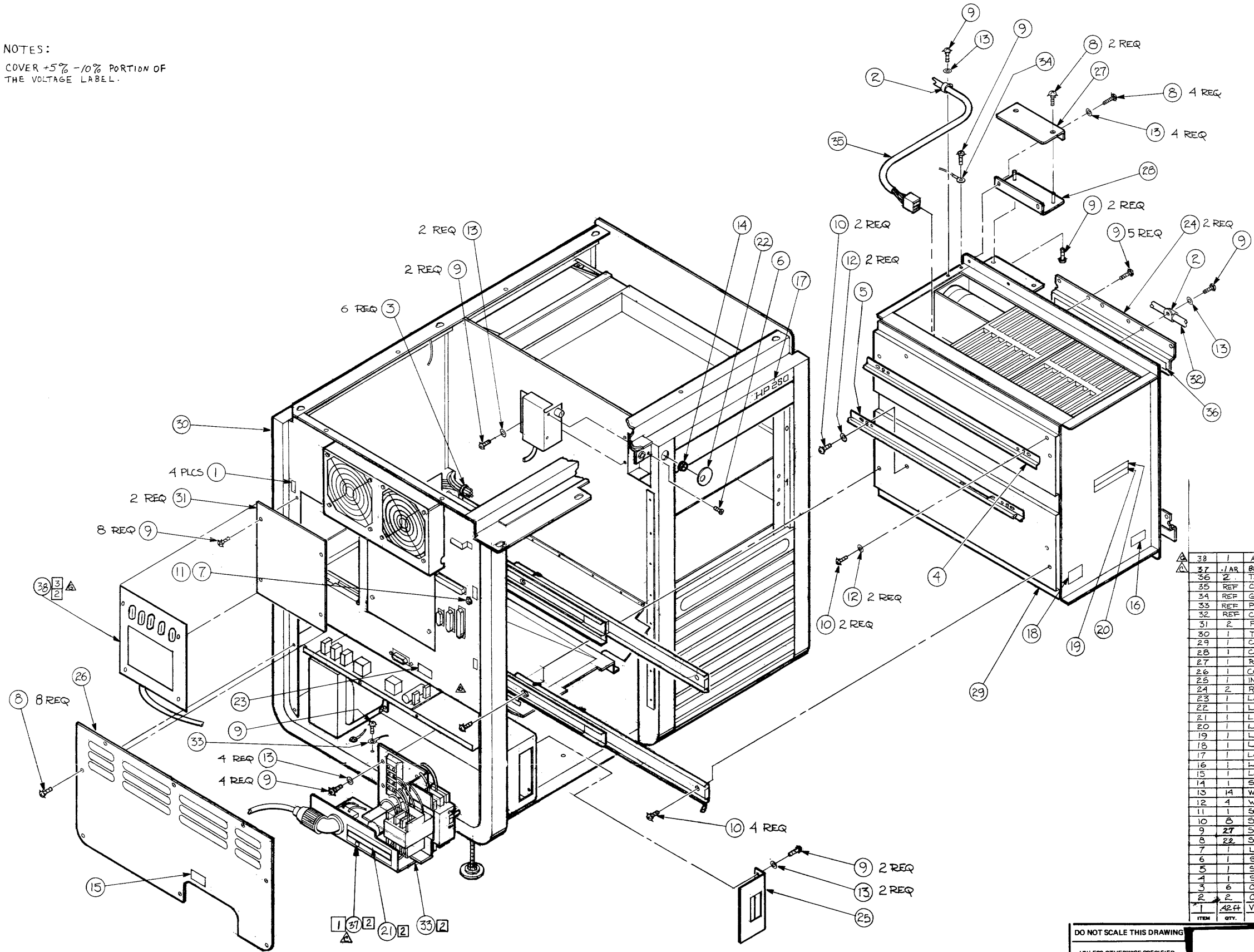


DO NOT SCALE THIS DRAWING
 UNLESS OTHERWISE SPECIFIED,
 DIMENSIONS ARE IN INCHES.
 TOLERANCES .XX ± .02 .XXX ± .005
 SEE COMP. STD. 008

ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L QTY. NO.	MAT'L SPEC.
INP BLOCK					
DIAGRAM					
NEXT ASSEMBLY:			PART NUMBER:		
FINISH:			SCALE:		
D-45122-66560-9					

ENGINEERING RESPONSIBILITY										REVISIONS										APPROVED		DATE					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	BYM		See sheet 7					
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39									

NOTES:
 A1 COVER +5% -10% PORTION OF THE VOLTAGE LABEL.



ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG. NO.	MAT'L SPEC.
38	1	ASYNC PRODUCT	45120A		
37	1	BLANK SECTION (2 1/2") 30HZ LABEL	7120-7250		
36	2	TAPE - FOAM	0460-1420		
35	REF	CABLE - FLOPPY, DC POWER	45000-61633	D-45000-67916-1	
34	REF	GROUND WIRE	8150-3284	D-45000-67916-1	
33	REF	POWER SUPPLY - PRIMARY-US	45250D		
32	REF	CABLE - FLOPPY CONTROL	45000-61640	D-45000-67916-1	
31	2	PANEL - BLANK	45120-00211		
30	1	TUB ASSY	45000-67916		
29	1	CARD CAGE ASSY	45000-67901		
28	1	CABLE TRAY - CARD CAGE	45000-04710		
27	1	RETAINING PLATE - CABLE	45000-04121		
26	1	COVER PLATE - TRANSFORMER	45000-04120		
25	1	INSPECTION PLATE - CB	45000-04115		
24	2	RETAINER - PC BOARD	45000-04114		
23	1	LABEL - IDENTIFICATION	7120-7262		
22	1	LABEL - INFORMATION	7120-7256		
21	1	LABEL - 60 HZ	7120-7249		
20	1	LABEL - MODEL No	7120-7181		
19	1	LABEL - OPTION No	7120-7180		
18	1	LABEL - INFORMATION	7120-7179		
17	1	LABEL - IDENTIFICATION	7120-7121		
16	1	LABEL - WARNING	7120-3628		
15	1	LABEL - WARNING	7120-3185		
14	1	SLEEVE - KEYSWITCH	4040-1433		
13	14	WASHER No 6 BR5	3050-0066		
12	4	WASHER No 8	3050-0139		
11	1	SCREW No 10-32 x .35 UL	2680-0224		
10	8	SCREW No 8-32 x .25 PH	2510-0043		
9	27	SCREW No 6-32 x .38 PH	2360-0117		
8	22	SCREW No 6-32 x .25 PH	2360-0115		
7	1	LOCKWASHER No 10 HEL	2190-0034		
6	1	SCREW No 4-40 x .25 FH	2200-0165		
5	1	SLIDE - CHASSIS, BOT RAIL	1494-0045		
4	1	SLIDE - CHASSIS, TOP RAIL	1494-0043		
3	6	CABLE TIE 7.4L RLSE	1400-0493		
2	2	CLAMP - CABLE 3/8	1400-0018		
1	1	VELCRO - LOOP	0510-0659		

DO NOT SCALE THIS DRAWING
 UNLESS OTHERWISE SPECIFIED,
 DIMENSIONS ARE IN INCHES.
 TOLERANCES .XX ± .02 .XXX ± .005
 SEE CORP. STD. 608

MAINFRAME, STANDARD		HEWLETT PACKARD	
PART NUMBER 45250A		D-45250-90001-1	
SCALE 1/4	SHEET 2 OF 2		

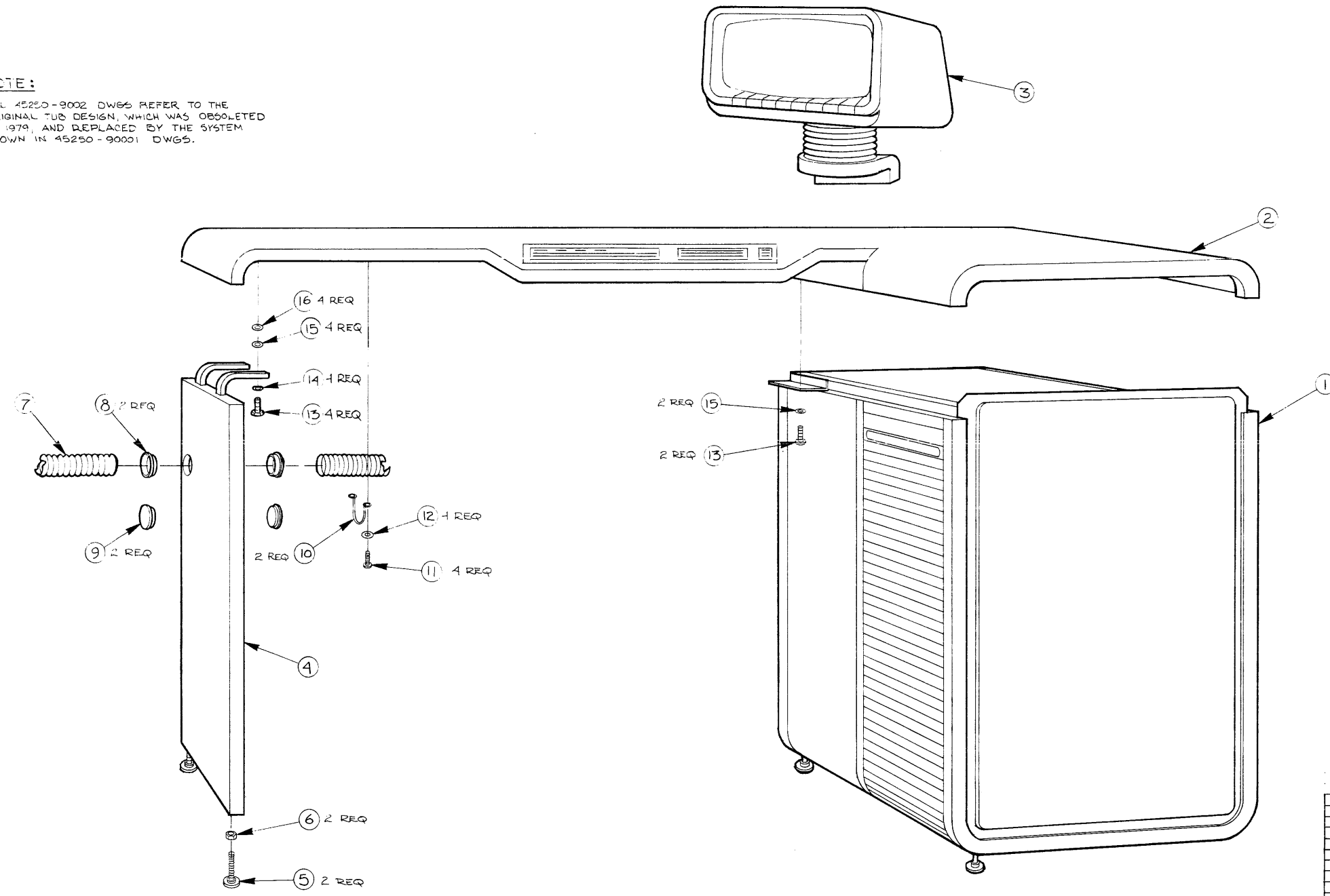
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16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47						

REFERENCE DWGS - ORIG. TUB

- 45250-90002-2 TOP & KEYBOARD ASSY
- 3 MAINFRAME ASSY
- 4 MAINFRAME ASSY
- 5 TRANSFORMER BOX ASSY

NOTE:

ALL 45250-9002 DWGS REFER TO THE ORIGINAL TUB DESIGN, WHICH WAS OBSOLETE IN 1979, AND REPLACED BY THE SYSTEM SHOWN IN 45250-90001 DWGS.



ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG. NO.	MAT'L SPEC.
16	4	WASHER - FLAT	3060-0204		
15	6	WASHER - FLAT	3050-0234		
14	6	LOCKWASHER 1/4 HEL	2190-0052		
13	6	SCREW - 1/4 - 20 x .50 LG	2940-0103		
12	4	WASHER No 6 BRS	3050-0066		
11	4	SCREW - No 6 - 32 x .38 PH	2360-0117		
10	2	CLAMP - TUBING	1460-1614		
9	2	PLUG	3041-1456		
8	2	GROMET - HOSE	5040-8586		
7	4.92 FT	FLEX TUBING	0890-1253		
6	2	NUT - 3/8 - 16 HEX	2950-0085		
5	2	LEVELING PAD	0403-0246		
4	1	LEG	1600-0958		
3	1	CRIT ASSY	REF		
2	1	TOP & KEYBOARD ASSY	REF		
1	1	MAINFRAME ASSY	REF		

DO NOT SCALE THIS DRAWING
UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES.
TOLERANCES .XX ± .02 .XXX ± .005
SEE CORP. STD. 908

250 SYSTEM
ASSY-ORIG. TUB
TITLE
HEWLETT PACKARD
REFERENCE 45250A
PART NUMBER
D-45250-90002-1
SHEET OF

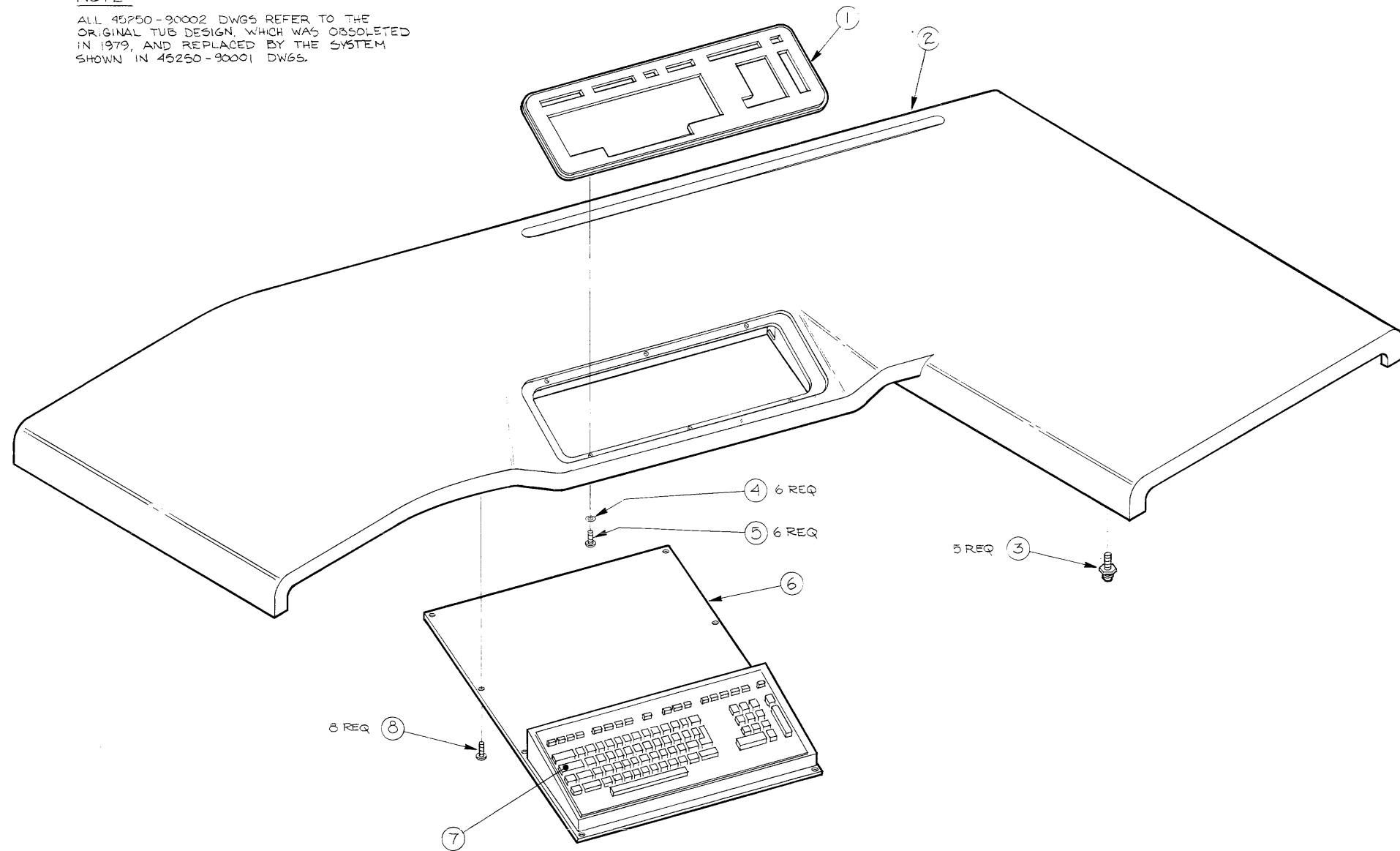
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16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31								
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47								
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63								

REFERENCE DWGS - ORIG TUB

- 45250-90002-1 250 SYSTEM ASS'Y
- 3 MAINFRAME ASS'Y
- 4 MAINFRAME ASS'Y
- 5 TRANSFORMER BOX ASS'Y

NOTE:

ALL 45250-90002 DWGS REFER TO THE ORIGINAL TUB DESIGN, WHICH WAS OBSOLETE IN 1979, AND REPLACED BY THE SYSTEM SHOWN IN 45250-90001 DWGS.



ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG. NO.	MAT'L SPEC.
8	6	SCREW No 6-32 x .31 PH	2360-0194		
7		KEY KIT - J.S.	45250-82500		
6		KEYBOARD ASSY - U.S.	46000-60105		
5	6	SCREW No 6-32 x .38 PH	2360-0117		
4	6	WASHER No 6 DR5	3050-0066		
3	5	STUD-MOUNTING	1390-0445		
2	1	MOLDED TOP	4040-1388		
1	1	BEZEL-KEYBOARD	4040-1385		

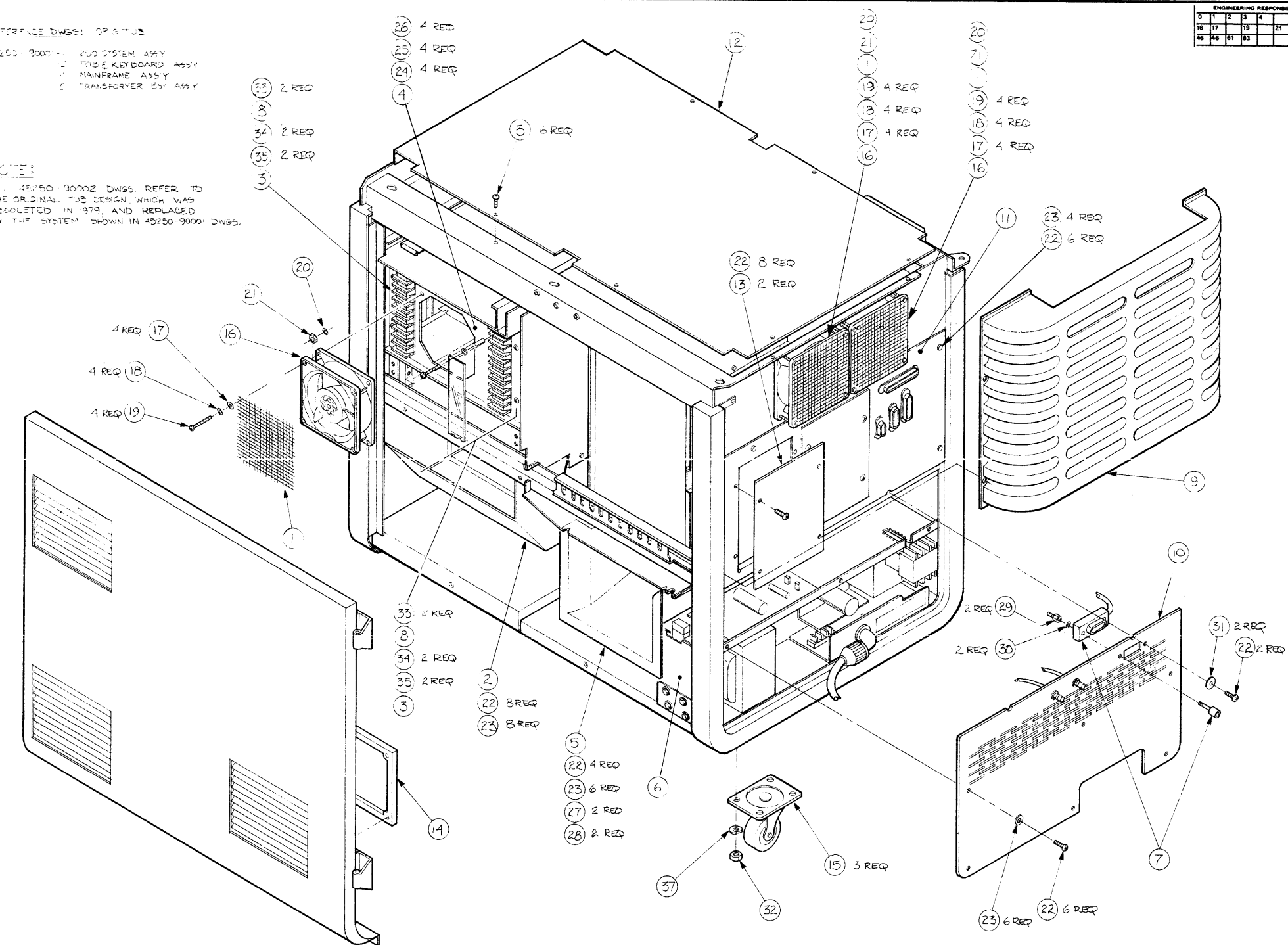
DO NOT SCALE THIS DRAWING
UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES.
TOLERANCES .XX ± .02 .XXX ± .005
SEE CORP. STD. 608

TOP & KEYBOARD ASSY- ORIG. TUB		HEWLETT PACKARD	
TITLE		REFERENCE 45250 A	
NEXT ASSEMBLY		PART NUMBER	
FINISH		D-45250-90002-2	
SCALE		SHEET OF	

ENGINEERING RESPONSIBILITY												SYN		REV		DATE								
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	SYM	REV	APPROVED	DATE				
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	A	AG ISSUED		

REFERENCE DWGS: 07 8 TUB
 45250-90001- 250 SYSTEM ASSY
 45250-90002- TUBE KEYBOARD ASSY
 45250-90003- MAINFRAME ASSY
 45250-90004- TRANSFORMER 250 ASSY

NOTE:
 ALL 45250-90002 DWGS. REFER TO THE ORIGINAL TUB DESIGN WHICH WAS OBSOLETE IN 1979, AND REPLACED BY THE SYSTEM SHOWN IN 45250-90001 DWGS.



36	12	LOCKWASHER - 3/8 HEL	2190-0042		
35	4	STANDOFF	0360-0073		
34	4	CROMMET	0400-0002		
33	4	SCREW - No 6-32 x 1.25 PH	2360-0242		
32	12	NUT - 3/8-16 HEX	2950-0085		
31	2	WASHER - FLAT	3050-0055		
30	2	LOCKWASHER - EXT No 6	2190-0006		
29	2	STANDOFF - HEX	0360-0643		
28	2	NUT - SHEETMETAL	0580-1224		
27	2	SCREW - No 6 x .625 TPG	0624-0267		
26	4	SCREW - No 10 - 32 x .50 PH	2680-0103		
25	4	LOCKWASHER - No 10 HEL	2190-0034		
24	4	WASHER - FLAT No 10	3050-0056		
23	24	WASHER - No 6 IRS	3050-0057		
22	32	SCREW - No 6 - 32 x .38 PH	2360-0117		
21	3	NUT - No 4 - 40 .280 AF	2260-0001		
20	3	LOCKWASHER - EXT TH	2190-0005		
19	12	SCREW - No 4-40 x 1.875 F	2200-0523		
18	12	LOCKWASHER - No 4 HEL	2190-0003		
17	12	WASHER - FLAT No 6	3050-0716		
16	3	FAN - TBAX 74 CFM	3160-0311		
15	3	CASTER - SWIVEL	492-0081		
14	1	GASKET - VENT	0905-0751		
13	2	PANEL - BLANK	45120-00211		
12	1	LID - TUB	45000-00107		
11	1	PANEL - COVER	45000-00214		
10	1	PLATE - TRANSFORMER BOX	45000-04103		
9	1	COVER - CONNECTOR PANEL	45000-34402		
8	2	SHIELD - BARRIER BLOCK	4040-4330		
7	1	CABLE, HP 1B	8120-1833		
6	1	BOX, CHASSIS - TRANSFORMER	45000-60103		
5	1	INDUCTOR - RAM AIR	4040-403		
4	1	BRACKET - FAN	45000-01209		
3	2	BLOCK, BARRIER - 9 POSITION	0360-1883		
2	1	SUPPORT - THIRD FLOPPY	4040-1394		
1	3	SCREEN, FILTER	09101-04601		

DO NOT SCALE THIS DRAWING
 UNLESS OTHERWISE SPECIFIED,
 DIMENSIONS ARE IN INCHES
 TOLERANCES .XX ± .02 .XXX ± .005
 SEE COMP. STD. 008

MAINFRAME ASSY ORIG. TUB		HEWLETT-PACKARD	
TITLE	REFERENCE 45250A	PART NUMBER	
NEXT ASSEMBLY	45250-90002-3	D-45250-90002-3	
FINISH	SCALE 1:4	SHEET OF	

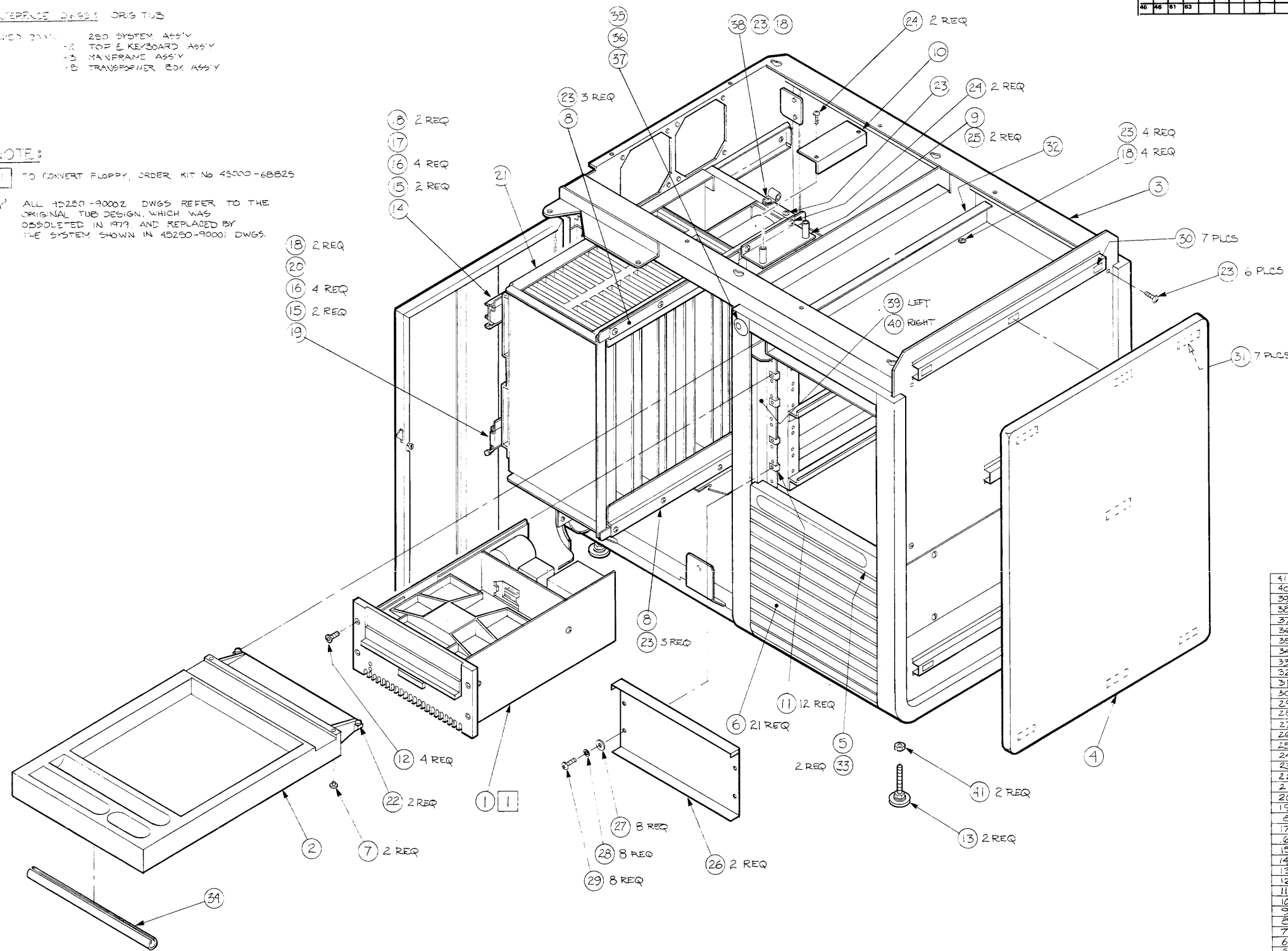
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21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39									
40	41	42	43	44	45	46	47	48	49																		

REFERENCE DWGS: ORIG TUB

- REFER TO: 250 SYSTEM ASSY
 2 TOP & KEYBOARD ASSY
 3 MAINFRAME ASSY
 8 TRANSFORMER BOX ASSY

NOTE:

- 1 TO CONVERT FLOPPY, ORDER KIT No 45000-68825
 2 ALL 45250-90002 DWGS REFER TO THE ORIGINAL TUB DESIGN, WHICH WAS OBSOLETE IN 1979, AND REPLACED BY THE SYSTEM SHOWN IN 45250-90001 DWGS.



41	2	NUT 3/8-16 HEX	2950-0085		
40	1	SSCRND TRIM STRIP	45000-68811		
39	1	TRIM STRIP-FLOPPY	45000-04311		
38	1	CLAMP - CABLE	400-0031		
37	REF	KEYSWITCH ASSEMBLY			
36	1	SLEEVE - KEYSWITCH	4040-1433		
35	1	LABEL - INFO	7120-7236		
34	1	CHANNEL - PVC BLK	4040-0861		
33	2	SPRING - MUSIC WIRE	1460-1632		
32	1	SLIDE - DRAWER	1530-2144		
31	1/16 FT	VELCRO HOOK	0510-0660		
30	1/16 FT	VELCRO LOOP	050-0659		
29	8	SCREW No 10-32 x .50 PH	2600-0103		
28	8	LOCKWASHER No 10 HEL	2190-0024		
27	8	WASHER - FLAT No 10	3050-0257		
26	2	COVER - FLOPPY	530-2143		
25	2	SCREW No 6-32 x .5 PH	2360-0121		
24	4	SCREW No 6-32 x .25 PH	2360-0113		
23	17	SCREW No 6-32 x .38 PH	2360-0117		
22	2	HOLE PLUG	6960-0096		
21	1	CARD CAGE ASSY	45000-67901		
20	1	RAIL - CHASSIS SLIDE, BOT	1494-0045		
19	1	SLIDE - CHASSIS, BOTTOM	1494-0046		
8	3	WASHER No 6 BR5	3050-0066		
17	1	RAIL - CHASSIS SLIDE, TOP	1494-0045		
6	8	SCREW No 8-32 x .25 PH	2510-0041		
15	4	SCREW No 8-32 x .38 PH	2510-0045		
14	1	SLIDE - CHASSIS, TOP	1494-0046		
13	2	PAD, LEVELING	0400-0246		
12	4	SCREW, ALLEN No 10 x .75	5030-0706		
11	12	NUT, CLIP	0590-0830		
10	1	PLATE, RETAINING	45000-04710		
9	1	CABLE TRAY - CARD CAGE	45000-04710		
8	2	RETAINER, BOARD	45000-0414		
7	2	HOLE PLUG	6960-0096		
6	21	SLAT, DOOR	4040-1367		
5	1	HANDLE, DOOR	4040-1367		
4	1	TUB ASSEMBLY	45000-68811	SEE D-3	
3	1	DRAWER	4040-1395		
2	1	FLOPPY DISC DRIVE ASSY	45000-68811		
1	1				

DO NOT SCALE THIS DRAWING
 UNLESS OTHERWISE SPECIFIED,
 DIMENSIONS ARE IN INCHES.
 TOLERANCES .XX ± .02 .XXX ± .005
 SEE CORP. STD. 608

MAINFRAME ASSY		HEWLETT PACKARD	
ORIG. TUB		REFERENCE 45250A	
NEXT ASSEMBLY	PART NUMBER	PART NUMBER	
		D-45250-90002-4	
FINISH	SCALE 1:4	SHEET OF	

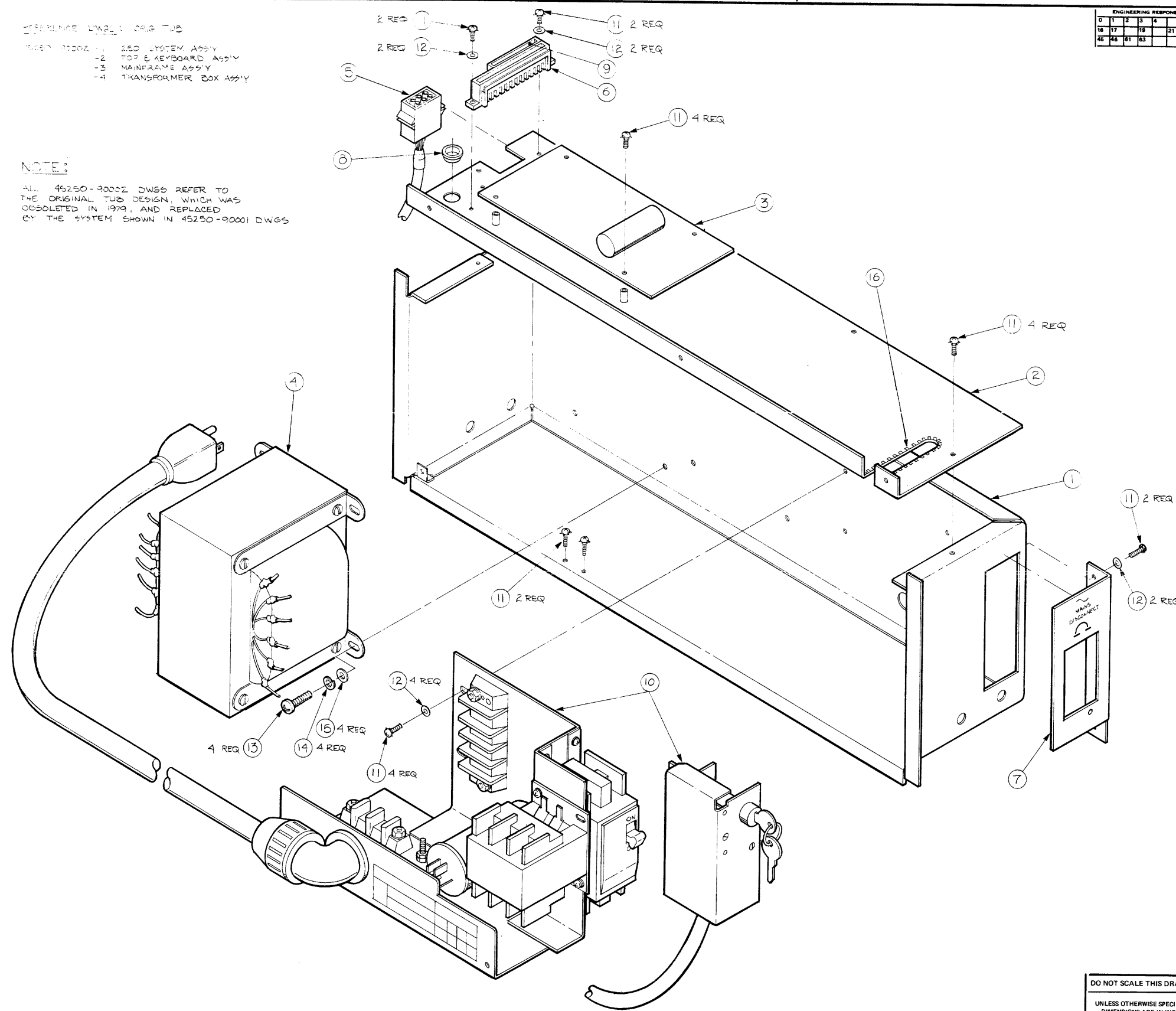
REFERENCE DWG: 45250-9000Z

- 1-250 SYSTEM ASSY
- 2- TOP & KEYBOARD ASSY
- 3- MAINFRAME ASSY
- 4- TRANSFORMER BOX ASSY

NOTE:

ALL 45250-9000Z DWGS REFER TO THE ORIGINAL TUB DESIGN, WHICH WAS OBSOLETE IN 1979, AND REPLACED BY THE SYSTEM SHOWN IN 45250-9000I DWGS

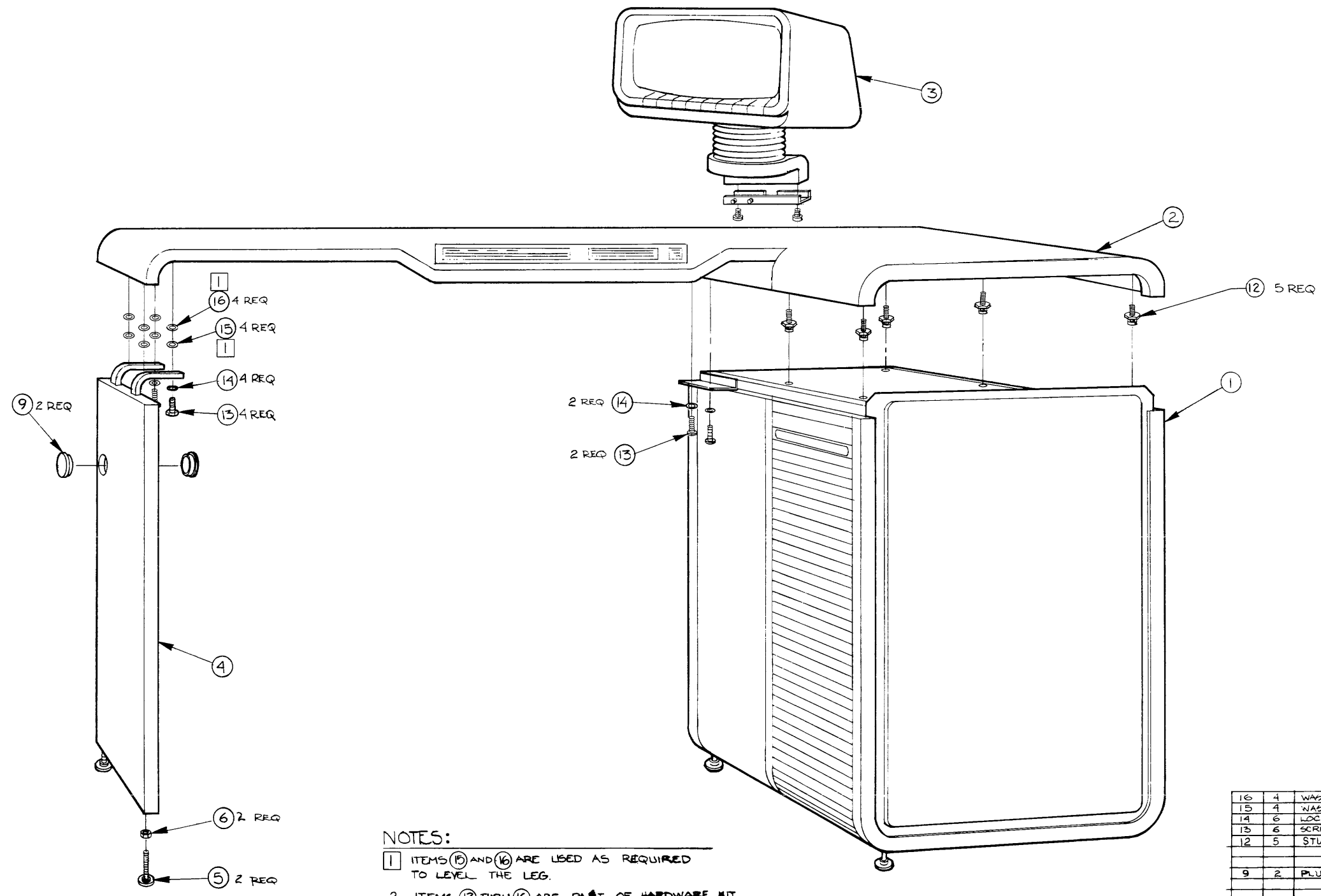
ENGINEERING RESPONSIBILITY												BY: A		REVISIONS		APPROVED		DATE	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	AS ISSUED			
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47				



ITEM	QTY	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L WGT. NO.	MAT'L SPEC.
16	2	GROMMET - CHANNEL	0430-0207		
15	4	WASHER - FLAT No 10	3350-0257		
14	4	LOCKWASHER - No 10 HEL	2190-0034		
13	4	SCREW - No 10-32 x .50 PH	2680-0103		
12	10	WASHER - FLAT No 6 BR5	3050-0066		
11	20	SCREW - No 6-32 x .38 PH	2360-0117		
10	1	PRIMARY POWER ASSY	45251-6121		
9	1	CONNECTOR - 10 POINT COMMONING	1251-5123		
8	1	BUSHING - .375 ID	0340-0871		
7	1	PLATE, INSPECTION - CB	1400-0290		
6	1	CONNECTOR - 15-POINT COMMONING	1251-5122		
5	1	CONNECTOR - 6-PIF MALE (WSP)	1251-3805		
4	1	TRANSFORMER, MAIN POWER	3100-4034		
3	1	FILTER BOARD, A1B	45000-6651B		
2	1	PLATE, UPPER	45000-0410Z		
1	1	BOX, CHASSIS - TRANSFORMER	45000-60103		

DO NOT SCALE THIS DRAWING
UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES.
TOLERANCES XX ± .02 XXX ± .005
SEE CORP. STD. 608

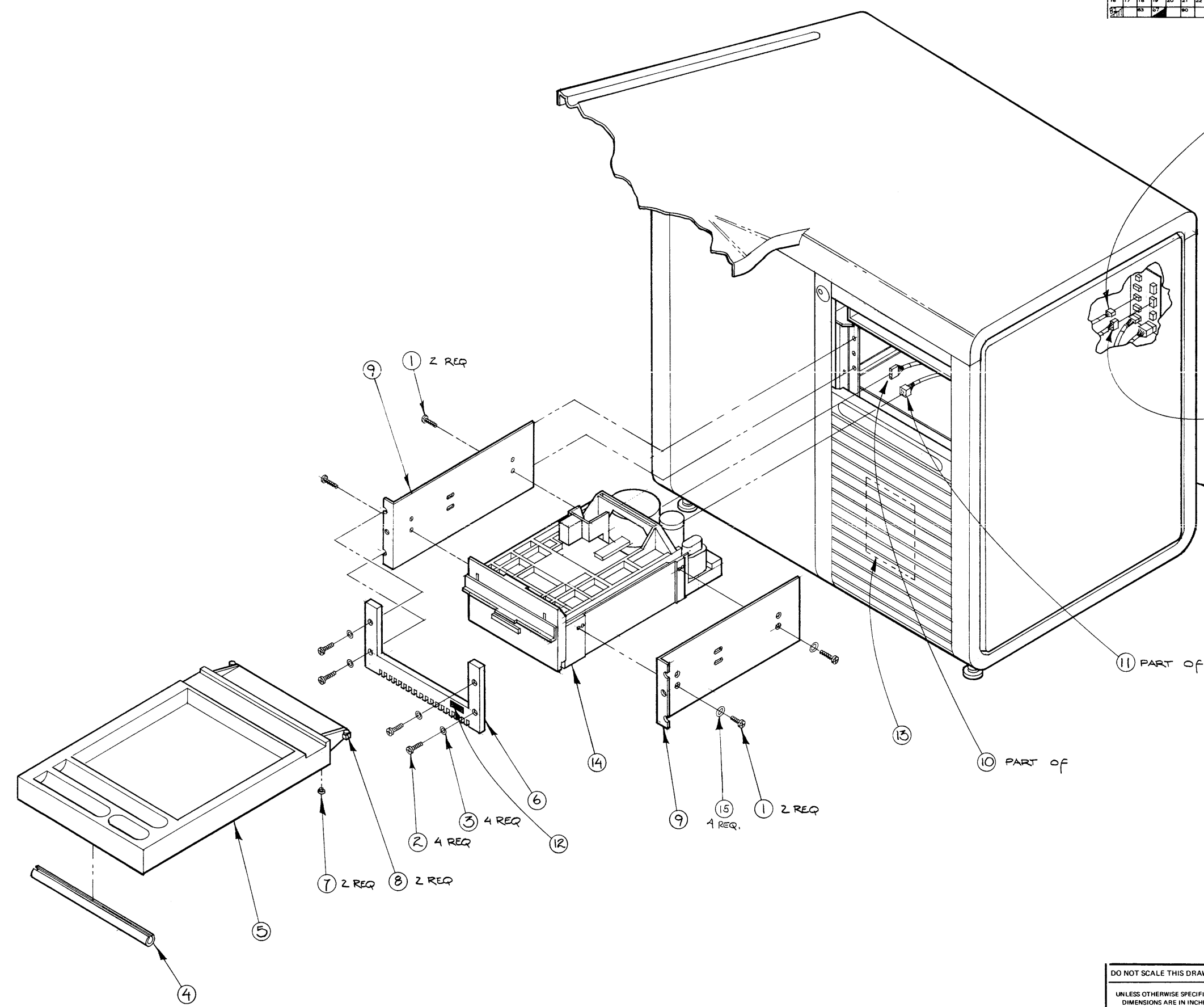
<p>TRANSFORMER BOX ASSY</p>		<p>HEWLETT-PACKARD</p>
<p>TITLE</p>	<p>REFERENCE 45250 A</p>	<p>PART NUMBER</p>
<p>NEXT ASSEMBLY</p>	<p>D-45250-9000Z-5</p>	<p>SHEET OF</p>
<p>FINISH</p>	<p>SCALE</p>	<p>SHEET OF</p>



NOTES:
 1. ITEMS 15 AND 16 ARE USED AS REQUIRED TO LEVEL THE LEG.
 2. ITEMS 12 THRU 16 ARE PART OF HARDWARE KIT

ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG. NO.	MAT'L SPEC.
16	4	WASHER - FLAT	3020-0209		
15	4	WASHER - FLAT	3050-0234		
14	6	LOCKWASHER 1/4 HEL	2190-0032		
13	6	SCREW - 1/4 - 20 X .80 LG	2940-0103		
12	5	STUD - SNAP-IN	1390-0445		
9	2	PLUG	3041-1456		
6	2	NUT - 3/8 - 16 HEX	2950-0085		
5	2	LEVELING PAD	0403-0246		
4	1	LEG	600-0858		
3	1	CRT			
2	1	TOP & KEYBOARD			
1	1	MAINFRAME			

DO NOT SCALE THIS DRAWING	DRAWN BY	DATE	HP250 TABLE TOP/LEG INSTALLATION DWG.	HEWLETT PACKARD
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.	ENGINEER		TITLE	REFERENCE 45250 A PART NUMBER
TOLERANCES .XX ± .02 .XXX ± .005	RELEASE TO PROD.		NEXT ASSEMBLY	D-45250-90003-1
SEE COMP. STD. 808	SUPERSEDES DWG.		FINISH	SCALE

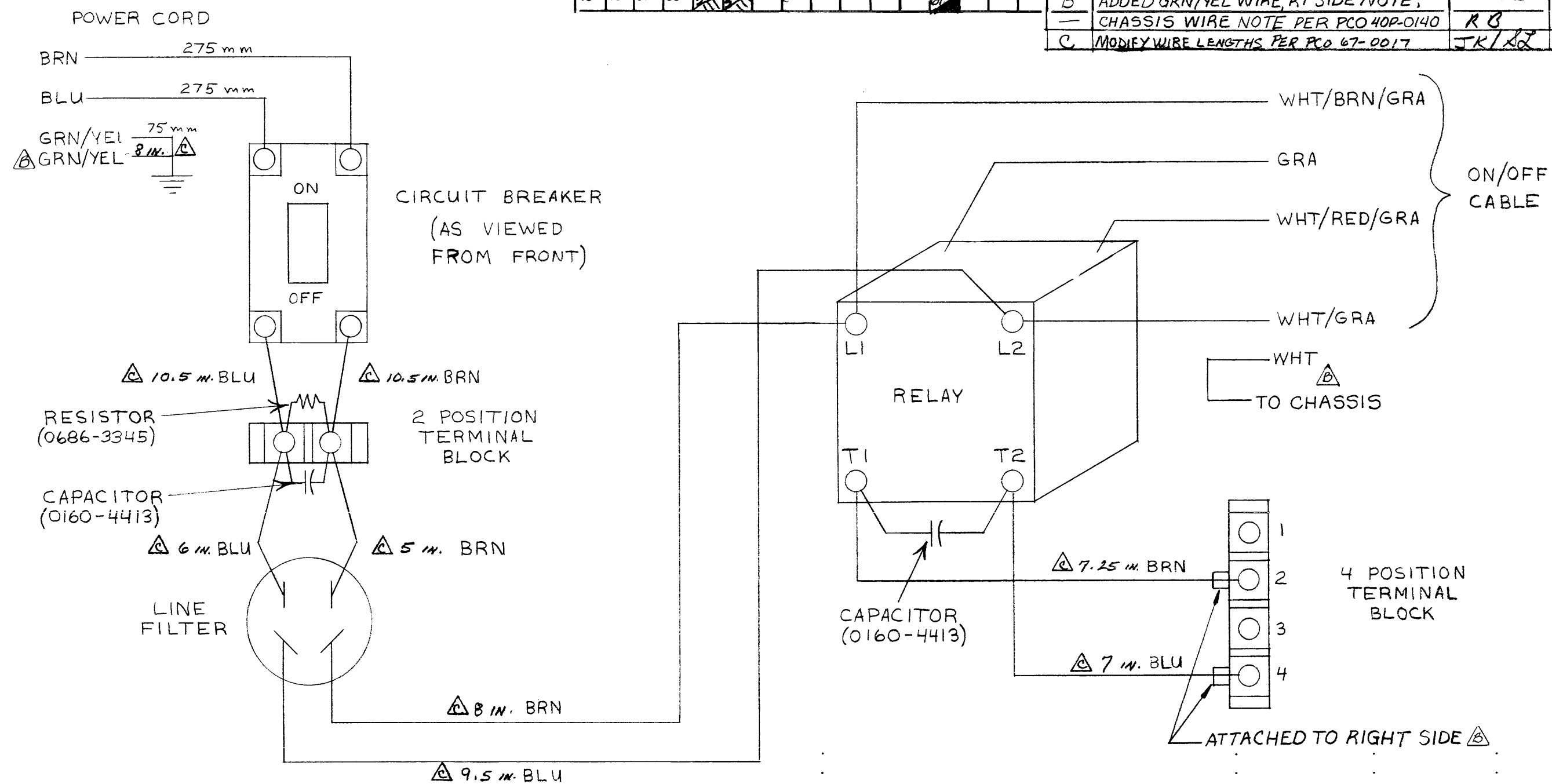


ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG NO.	MAT'L-SPEC.
15	4	WASHER .195 ID	3050-1070		
14	1	FLOPPY-BI-COMP	9895 K		
13	1	CAUTION NOTICE	45000-90364		
12	1	CAUTION LABEL	45000-90363		
11	1	DC POWER CABLE	45000-61635		
10	1	AC POWER CABLE	45000-61626		
9	2	FLOPPY SIDE BRKT	45000-D1226		
8	2	HOLE PLUG	6960-0096		
7	2	HOLE PLUG	6960-0079		
6	1	BEZEL - FLOPPY / 250	4040-1829		
5	1	DRAWER	4040-1395		
4	.66 FT	CHANNEL PVC	4040-0861		
3	4	WSHR. FL VNL #10 .208 ID	3050-1070		
2	4	SCREW #10-SKT BTN HD .63 LG	3020-0895		
1	4	SCREW #10-32 PH.	3030-0895		

DO NOT SCALE THIS DRAWING UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES .XX ± .02 .XXX ± .00 SEE CORP. STD. 608	TITLE	SYSTEM FLOPPY 45250K	HEWLETT PACKARD	
	NEXT ASSEMBLY	SEE "KARDEX"		PART NUMBER 45250K
	FINISH	SCALE 1/4		PART NUMBER 45250-90004-1

ENGINEERING RESPONSIBILITY												SEPIA			
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47

B-45251-61211 - 2		APPROVED	DATE
SYM	REVISIONS		
A	AS ISSUED	37-4233	6-29-79
B	ADDED GRN/YEL WIRE, RT SIDE NOTE,		
	CHASSIS WIRE NOTE PER PCO 40P-0140	RB	3-11-80
C	MODIFY WIRE LENGTHS PER PCO 67-0017	JK/LZ	1-22-81



UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN MILLIMETRES

THIRD ANGLE PROJECTION

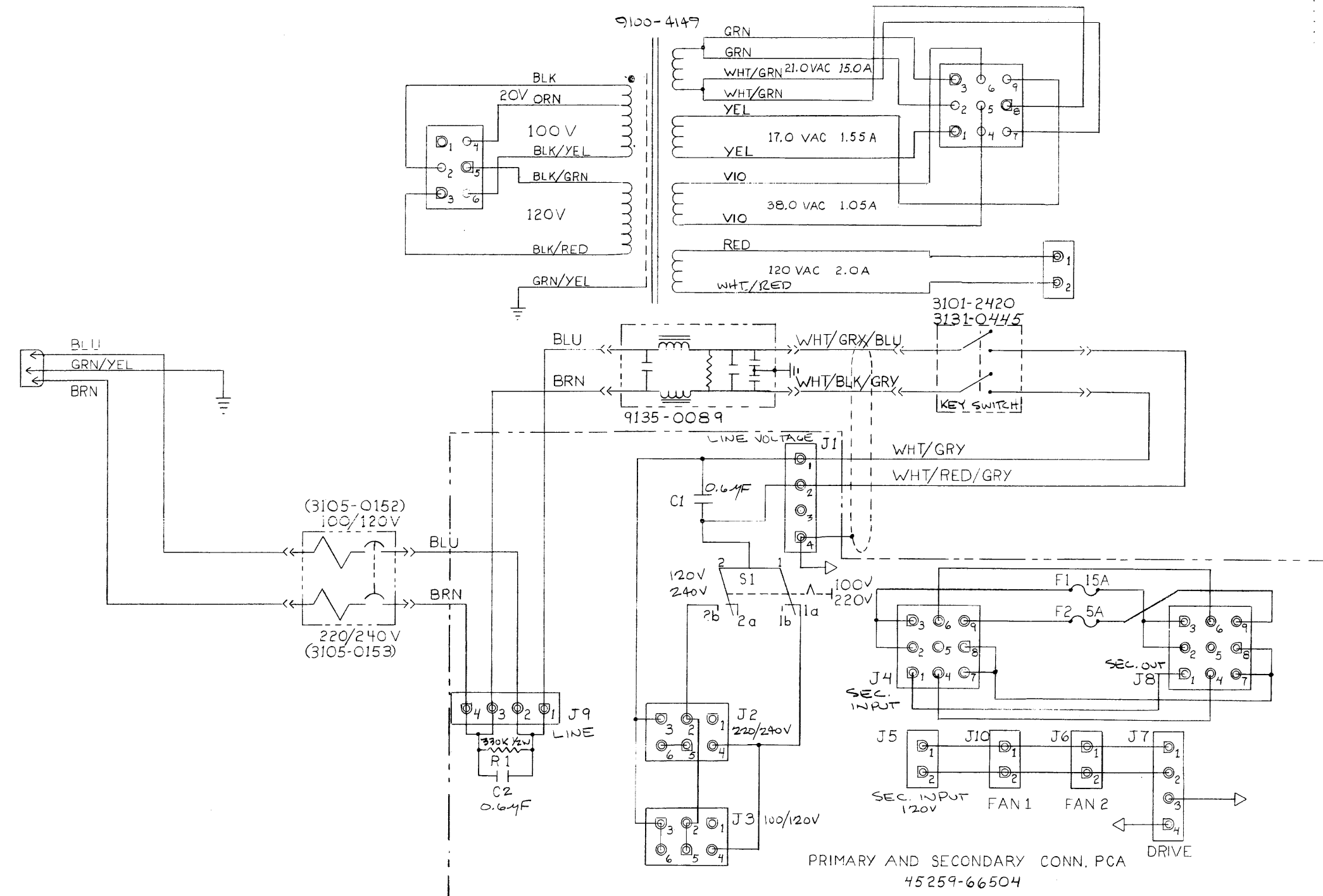
TOLERANCES: XX ± 0.5 mm or ± 0.4 mm
XX.X ± 0.2 mm or ± 0.1 mm
STRIKE OUT ONE XX AND ONE XX.X
SEE CORP. STD. 608

DO NOT SCALE THIS DRAWING

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
DRAWN BY		6-19-79	U.S. PRIMARY POWER ASSEMBLY WIRING		HEWLETT PACKARD
DATE			TITLE		
ENGINEER		7/9/79	NEXT ASSEMBLY 45251A		PART NUMBER
RELEASE TO PROD.			FINISH		B-45251-61211 - 2
SUPERSEDES DWG.			SCALE		

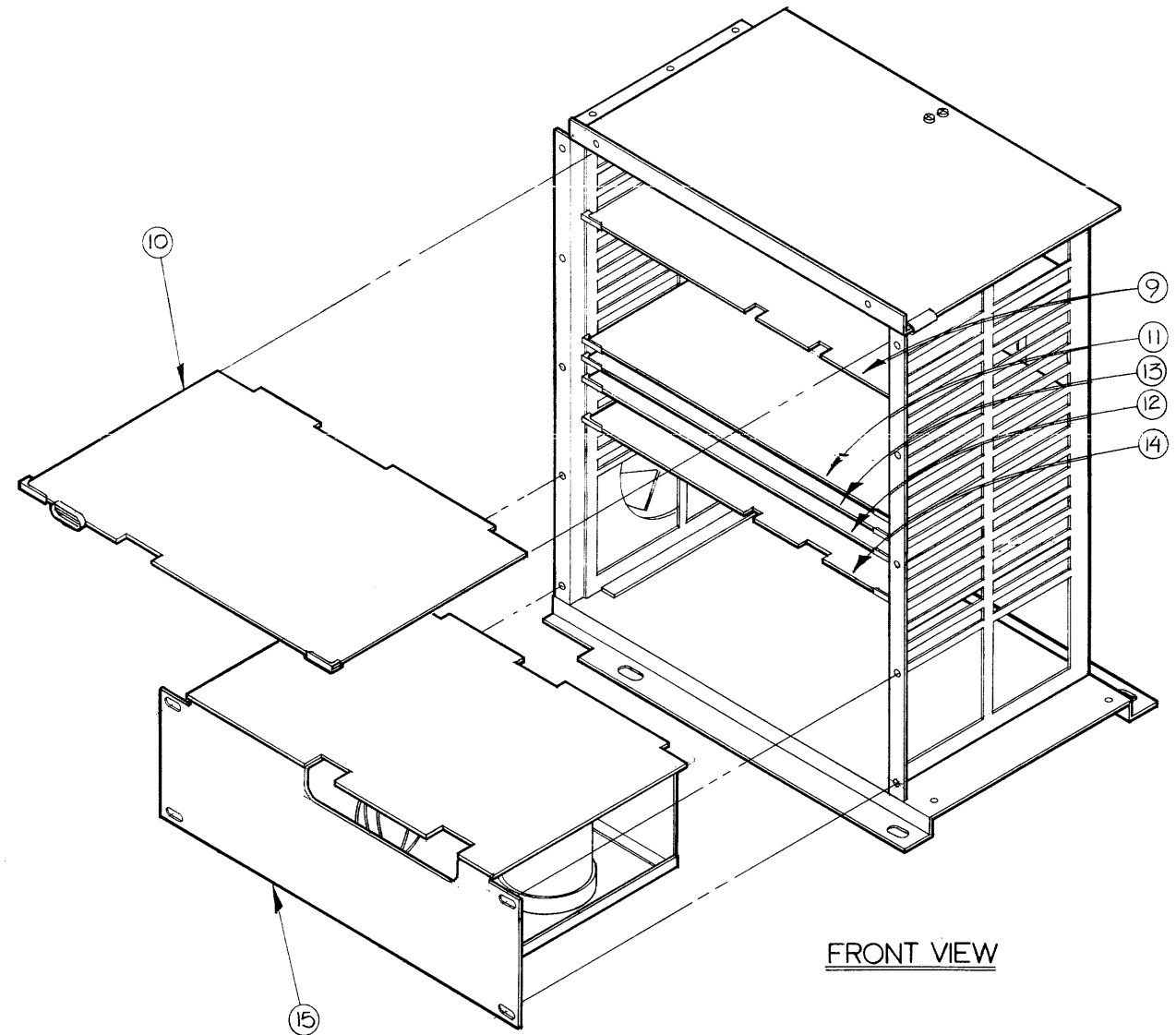
ENGINEERING RESPONSIBILITY													REVISED		APPROVED		DATE	
0	1	2	3	4	5	6	7	8	9	10	11	12	BY: AS		DATE: 5/1/53			
13	14	15	16	17	18	19	20	21	22	23	24	25	BY: SSJGD		DATE: 5/1/53			
26	27	28	29	30	31	32	33	34	35	36	37	38						
39	40	41	42	43	44	45	46	47	48	49	50	51						

PRIMARY - SECONDARY POWER SCHEMATIC

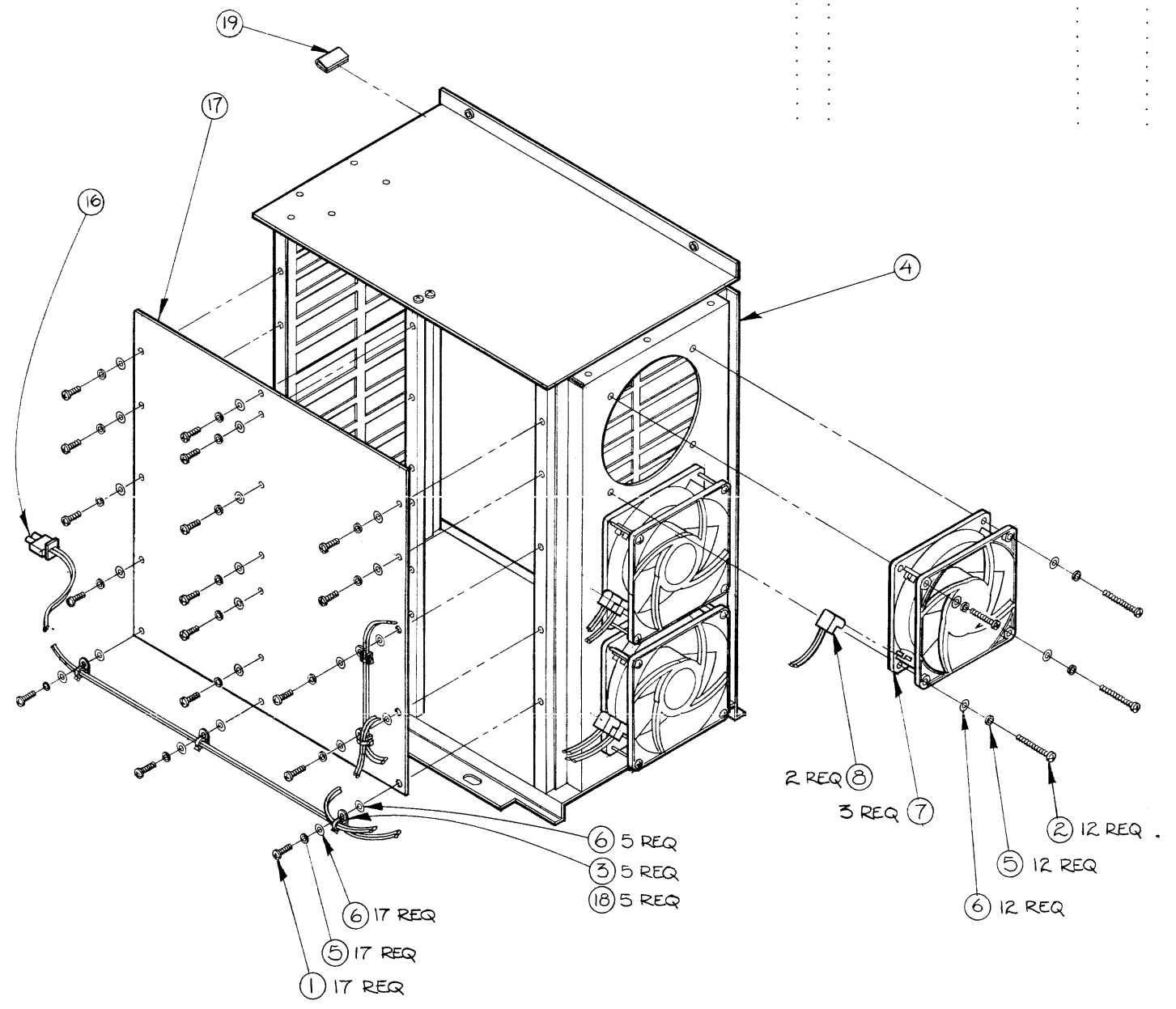


PRIMARY AND SECONDARY CONN. PCA
45259-66504

ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L. PART NO.	MAT'L. DWG. NO.	MAT'L. SPEC.
DO NOT SCALE THIS DRAWING					
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.					
TOLERANCES .XX ± .02 .XXX ± .005					
SEE CORP. STD. 506					
PRIMARY SECONDARY CONN. PCA			HEWLETT PACKARD		
TITLE SCHEMATIC					
45259A			PART NUMBER		
NEXT ASSEMBLY			D-45259-66504-6		
FINISH			SCALE		



FRONT VIEW



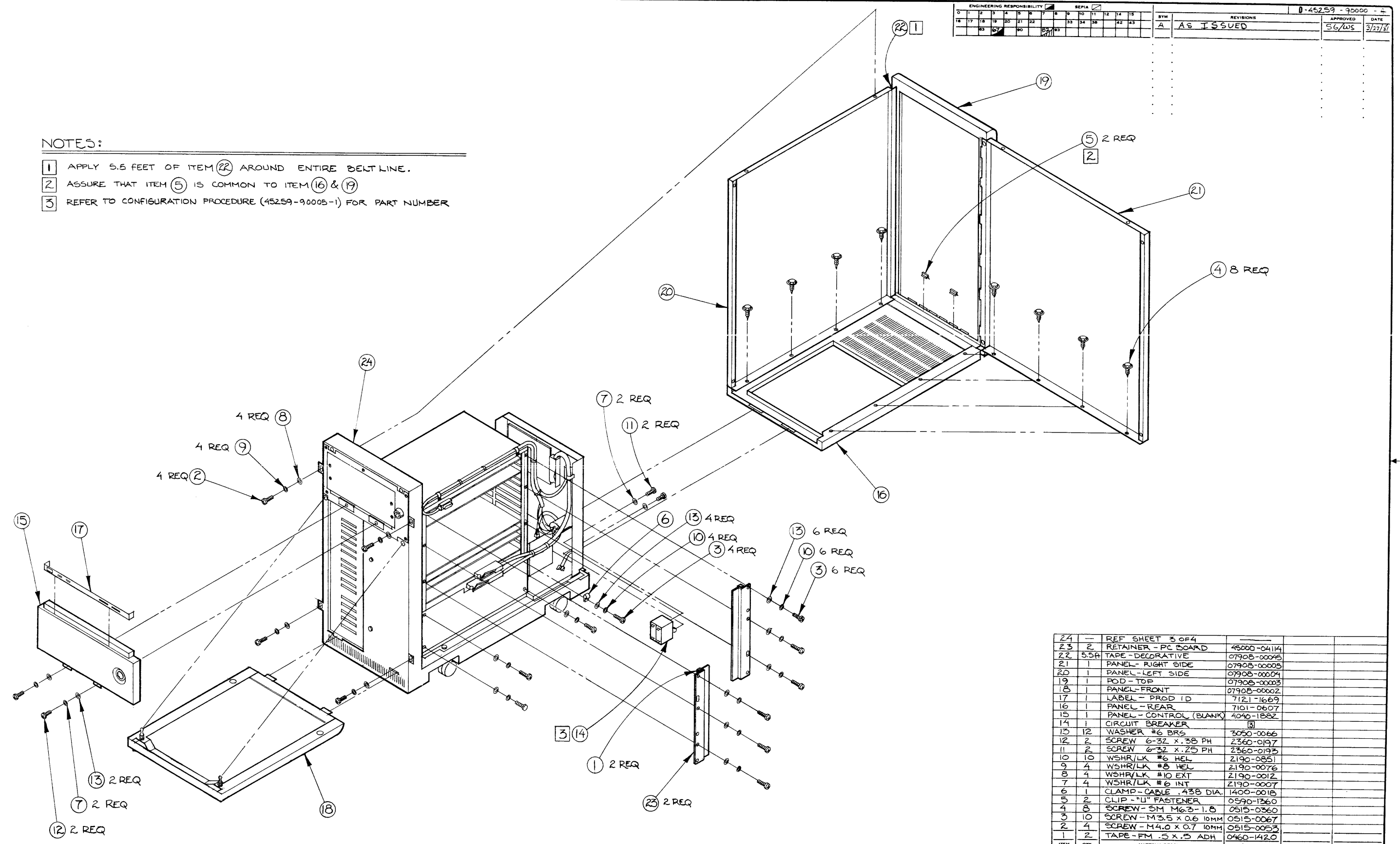
REAR VIEW
ROTATED 180°

ITEM	QTY.	MATERIAL-DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
19	5	GROMMET-CHAN. 125 IN-GRY-WD	4040-0809		
18	5	CABLE TIE	1400-0249		
17	1	PCA-MOTHER	45259-66802		
16	1	FAN CABLE	45259-61600		
15	1	PCA-POWER SUPPLY	45000-66552		
14	1	PCA-ASYNC DATA	45120-66550		
13	1	PCA-128 KB MEMORY	45000-66533		
12	1	PCA-BLK, SW	45000-66514		
11	REF	PCA-64 KB			
10	1	PCA-HPIB	45000-66507		
9	1	PCA-PROCESSOR	45000-66505		
8	2	CA AC FAN DBL	8120-3296		
7	3	FAN-TBAX 74 CFM	3160-0511		
6	34	WSHR #6 BRS	3050-0066		
5	29	WSHR/LK #6 HEL	2190-0851		
4	1	CARD CAGE ASSY	1600-1116		
3	5	MOUNT-CA TIE	1400-0786		
2	12	SCREW-M3.5 X .6 50 MM	0515-0229		
1	17	SCREW-M3.5 X .6 10 MM	0515-0067		

DO NOT SCALE THIS DRAWING	DRAWN BY	DATE	45259 MAINFRAME CARD CAGE MODULE	 HEWLETT PACKARD
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES .XX ± .02 .XXX ± .005	ENGR		45259A	
SEE CORP. STD. 608	SUPERSEDES DWG.	FINISH	SCALE 1:3	45259A PART NUMBER 45259-90000-2

NOTES:

- 1 APPLY 5.5 FEET OF ITEM (22) AROUND ENTIRE BELT LINE.
- 2 ASSURE THAT ITEM (5) IS COMMON TO ITEM (16) & (19)
- 3 REFER TO CONFIGURATION PROCEDURE (45259-90005-1) FOR PART NUMBER



ITEM	QTY	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG NO.	MAT'L SPEC.
24	1	REF SHEET 3 OF 4			
23	2	RETAINER - PC BOARD	45000-04114		
22	5.5 FT	TAPE - DECORATIVE	07908-00045		
21	1	PANEL - RIGHT SIDE	07908-00005		
20	1	PANEL - LEFT SIDE	07908-00004		
19	1	POD - TOP	07908-00003		
18	1	PANEL - FRONT	07908-00002		
17	1	LABEL - PROD ID	7121-1669		
16	1	PANEL - REAR	7101-0607		
15	1	PANEL - CONTROL (BLANK)	4040-1882		
14	1	CIRCUIT BREAKER	5		
13	12	WASHER #6 BRS	3050-0066		
12	2	SCREW 6-32 X .38 PH	2360-0197		
11	2	SCREW 6-32 X .25 PH	2360-0195		
10	10	WSHR/LK #6 HEL	2190-0851		
9	4	WSHR/LK #8 HEL	2190-0076		
8	4	WSHR/LK #10 EXT	2190-0012		
7	4	WSHR/LK #6 INT	2190-0007		
6	1	CLAMP - CABLE .438 DIA.	1400-0018		
5	2	CLIP - "U" FASTENER	0590-1360		
4	8	SCREW - SM M6.3-1.8	0515-0360		
3	10	SCREW - M3.5 X 0.6 10MM	0515-0067		
2	4	SCREW - M4.0 X 0.7 10MM	0515-0053		
1	2	TAPE - FM .5 X .5 ADH	0460-1420		

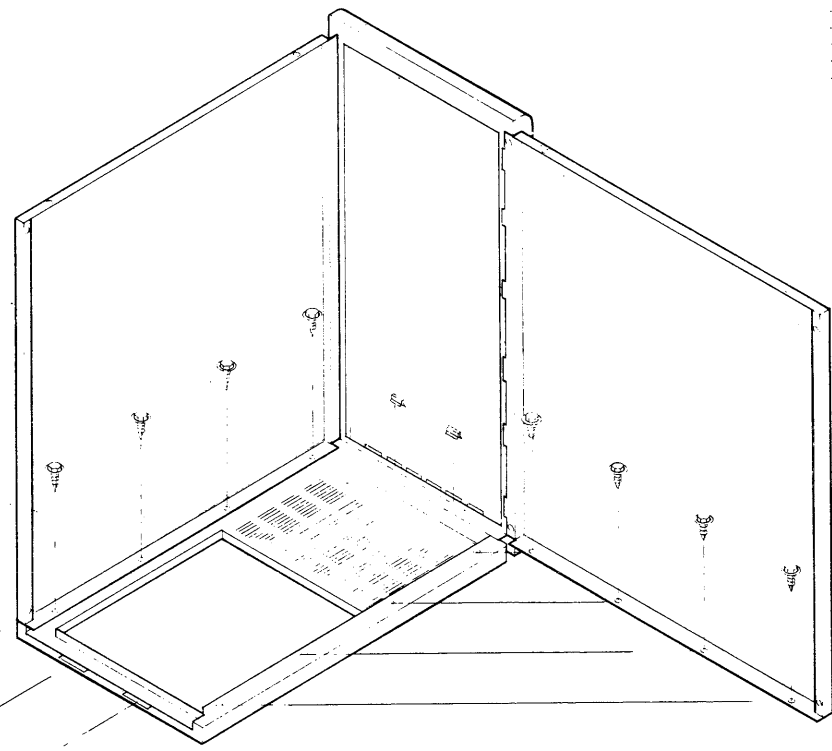
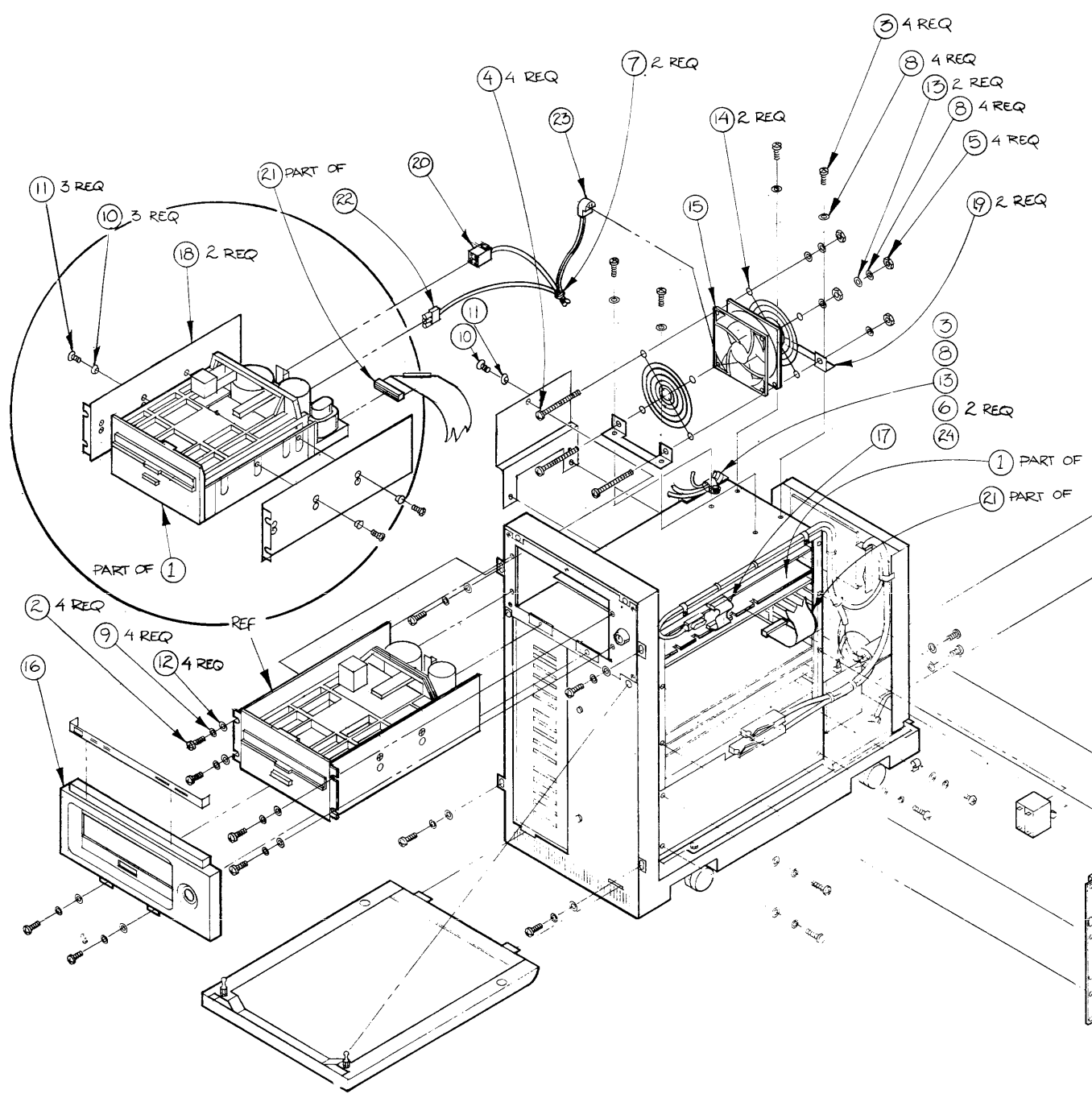
DO NOT SCALE THIS DRAWING
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
TOLERANCES: .XX ± .02 .XXX ± .005
SEE CONF. STD. 608

45259 MAINFRAME CONFIGURATION & CLEAN-UP
TITLE
45259A
PART NUMBER
NEXT ASSEMBLY
FINISH
SCALE 3/16
D-45259-90000-4
HEWLETT PACKARD
3/16
D-45259-90000-4
SHEET 1 OF 1

ENGINEERING RESPONSIBILITY															SERIAL					D-45273-9000-1		
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	REVISIONS					APPROVED	DATE
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	A	AS ISSUED			W.S.	12/81	

NOTE :

1. REFER TO DWG NO. D-45259-90000-4



ITEM	QTY	MATERIAL DESCRIPTION	MAT'L PART NO.	MAT'L DWG. NO.	MAT'L SPEC.
25	1	RETAINER BRACKET-FLOPPY	45273-00010		
24	1.0M	GROMMET-CHAN. 1/25 IN-GRY-ND	4040-0509		
23	1	CABLE-AC FAN	45259-61609		
22	1	CABLE-DRIVE	45259-61608		
21	1	CABLE-CONTROL	45259-61607		
20	1	CABLE-DC	45259-61606		
19	2	BRACKET-FAN	45000-00012		
18	2	MOUNTING BRACKET-FLOPPY	45000-00011		
17	1	CABLE-HP-15	8120-2757		
16	1	CONTROL PANEL-FLOPPY	4040-18055		
15	1	FAN-TBAX 74 CFM	3160-0311		
14	2	FINGER GUARD	3160-0092		
13	3	WSHR FLAT #6	3050-0066		
12	4	WSHR FLAT #8	3050-0001		
11	4	SCREW-MACH 8-32 X .375	2510-0102		
10	4	WSHR/LK #8 CTSK	2190-0046		
9	4	WSHR/LK #8 INT	2190-0007		
8	2	WSHR/LK #6 INT	2190-0007		
7	2	TIE WRAP	1400-0495		
6	2	CABLE CLAMP	1400-0495		
5	4	NUT M3.0 X .5	0535-0007		
4	4	SCREW M3.5 X .6 50MM	0519-0228		
3	5	SCREW M3.5 X .6 10MM	0515-0067		
2	4	SCREW M4.0 X .7 10MM	0515-0053		
1	1	FLOPPY DRIVE	45273-00010		

DO NOT SCALE THIS DRAWING
UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES.
TOLERANCES .XX ± .02 .XXX ± .005
SEE CORP. STD. 808

FLOPPY DRIVE ASSEMBLY TITLE		HEWLETT PACKARD	
PART NUMBER 45273A		PART NUMBER 45273A	
SCALE 3/16:1		SHEET OF D-45273-90001-1	

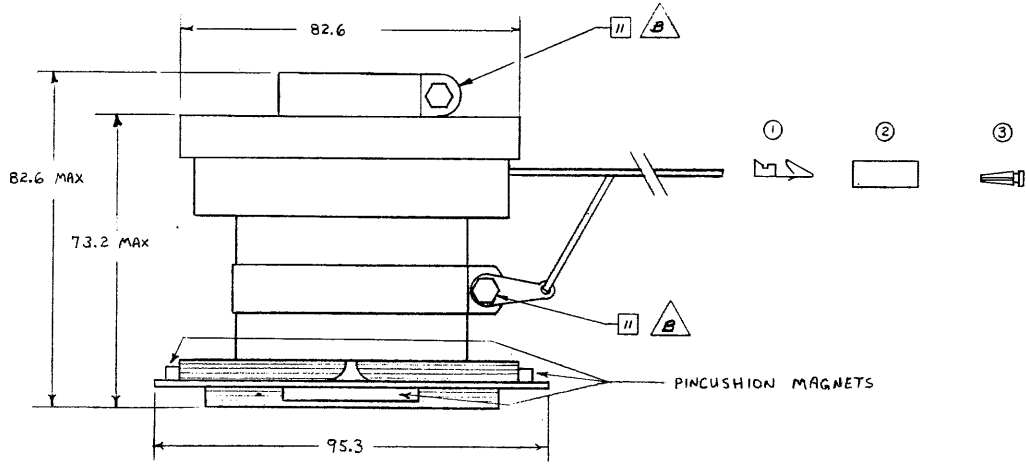
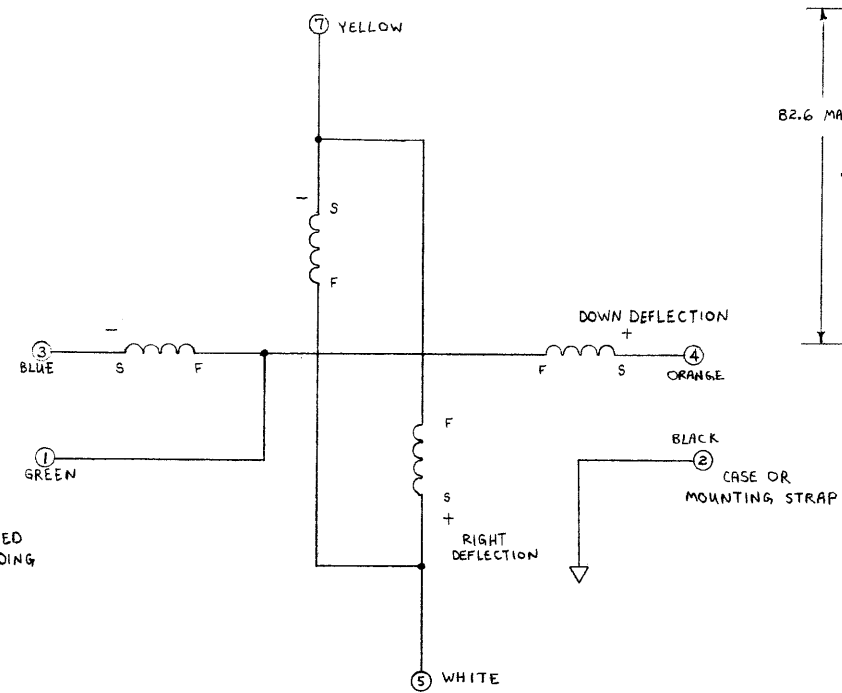
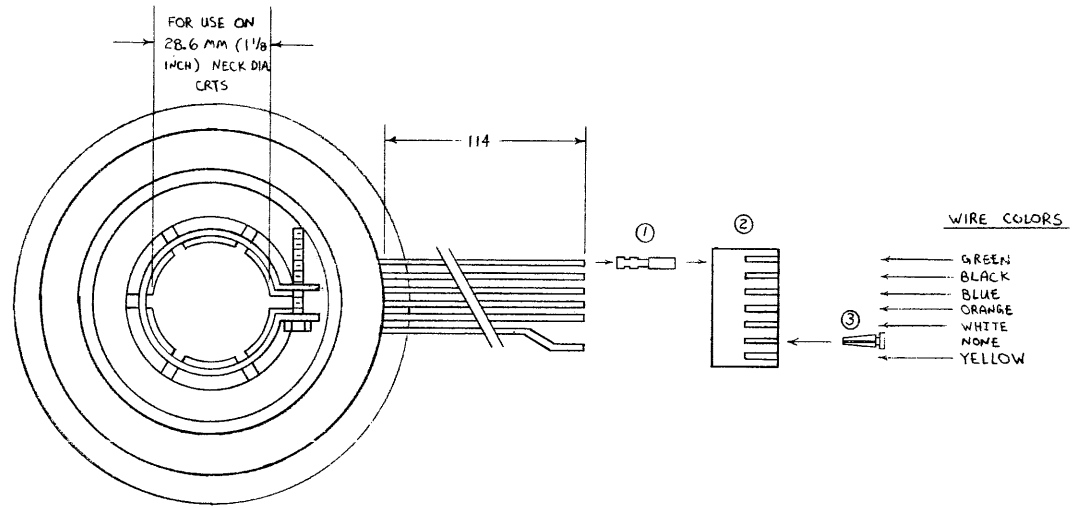
NOTES:

- MINIMUM WIRE SIZE FOR ALL LEADS IS AWG 22
- COIL DATA:

COIL	FUNCTION	L ₂ 10% 250μHY	MIN. R _L .3	MAX. SENSITIVITY @ 15KV .4
5,7	HORIZ. DRIVE	70μHY	65	85
3,4	VERT. DRIVE			
- CRT DATA: HP PART NO. 2090-0040. NOMINAL DEFLECTION ANGLE 70° HORIZ. 35° VERT. ANODE VOLTAGE 15 KV.
- NO CENTERING MAGNETS SHALL BE USED.
- INSULATION: 500 VAC RMS
- HORIZONTAL DRIVE FREQUENCY = 22.5 KHZ. VERTICAL DRIVE FREQUENCY = 60 HZ.
- LEAD WIRES EXIT TO THE RIGHT OF THE YOKE, VIEWED WHEN FACING SCREEN
- POLARITIES SHOWN ARE FOR DEFLECTIONS INDICATED WHEN FACING SCREEN
- PINCUSHION DISTORTION IS TO BE CORRECTED PER HP TEST FIXTURE. RASTER SIZE 5"x10"
- MARK HP PART NUMBER IN VISIBLE LOCATION ()
- BOLTS ON CLAMPS TO BE ALIGNED AS SHOWN.**

ENGINEERING RESPONSIBILITY															REVISIONS		APPROVED	DATE	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	A AS ISSUED		1/25-78	1/17-78
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	B ADDED NOTE 11.			

ALL DIMENSIONS IN MM UNLESS OTHERWISE SPECIFIED

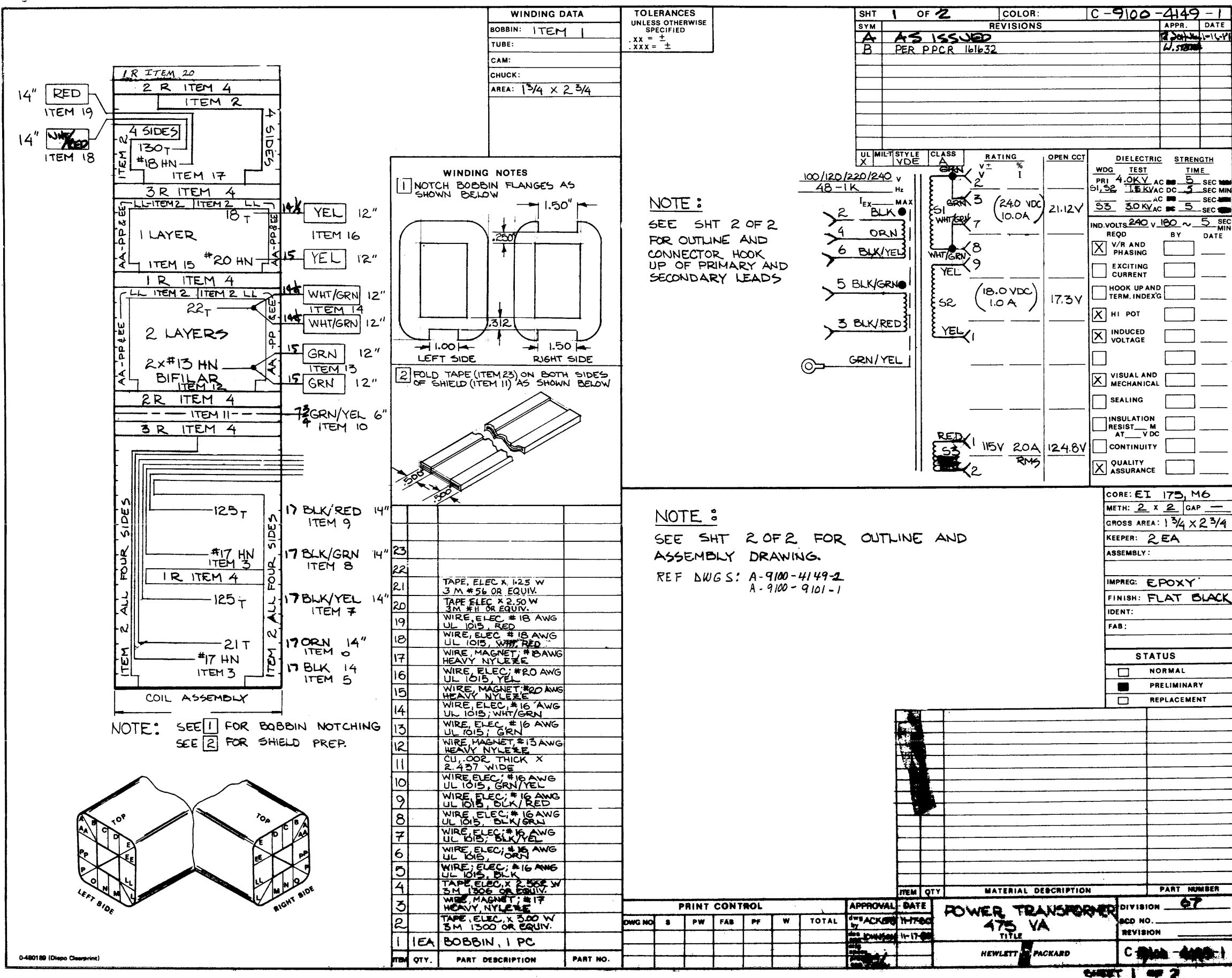


METRIC

DO NOT SCALE THIS DRAWING
 TOLERANCES: XX ± 0.5 mm
 XX.X ± 0.2 mm
 STRIKE OUT ONE XX AND ONE XX.X
 SEE CORP. STD. 608

ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L. PART NO.	MAT'L. DWG. NO.	MAT'L. SPEC.
3	1	POLARIZING PLUG, MOLEX	1251-0627		15-04-0219
2	1	7 POSITION FEMALE HOUSING, MOLEX	1251-4968		09-50-7071
1	6	SPRING CLIP CONNECTOR, MOLEX	1251-0670		08-50-0105

DEFLECTION YOKE		HEWLETT PACKARD
TITLE		
NEXT ASSEMBLY 45000-67905		PART NUMBER C-9100-4079-1
FINISH	SCALE 1:1	

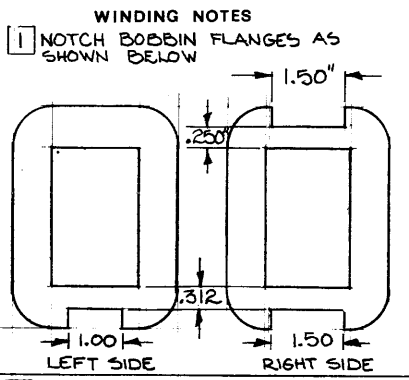


WINDING DATA	
BOBBIN:	ITEM 1
TUBE:	
CAM:	
CHUCK:	
AREA:	1 3/4 x 2 3/4

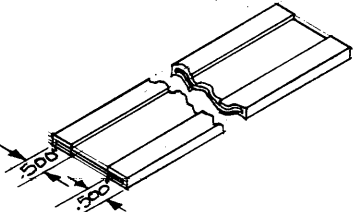
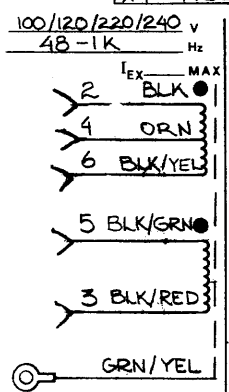
TOLERANCES
UNLESS OTHERWISE
SPECIFIED
.XX = ±
.XXX = ±

SHT 1 OF 2		COLOR:	C-9100-4149-1
SYM	REVISIONS		APPR. DATE
A	AS ISSUED		11-16-68
B	PER P.P.C.R. 161632		11-16-68

UL MILIT. STYLE	CLASS	RATING	OPEN CCT	DIELECTRIC	STRENGTH
X1	A	100/120/220/240 V 48-1K Hz		WDG TEST TIME	
				PRI 4.0KV AC 5 SEC MIN	
				SEC 1.5KV DC 5 SEC MIN	
				33 30KV AC 5 SEC MIN	
				IND. VOLTS 240 V 100 ~ 5 SEC MIN	
				REQD BY DATE	
				<input checked="" type="checkbox"/> V/R AND PHASING	
				<input type="checkbox"/> EXCITING CURRENT	
				<input type="checkbox"/> HOOK UP AND TERM. INDEXG	
				<input checked="" type="checkbox"/> HI POT	
				<input checked="" type="checkbox"/> INDUCED VOLTAGE	
				<input type="checkbox"/> VISUAL AND MECHANICAL	
				<input type="checkbox"/> SEALING	
				<input type="checkbox"/> INSULATION RESIST. M AT V DC	
				<input type="checkbox"/> CONTINUITY	
				<input checked="" type="checkbox"/> QUALITY ASSURANCE	



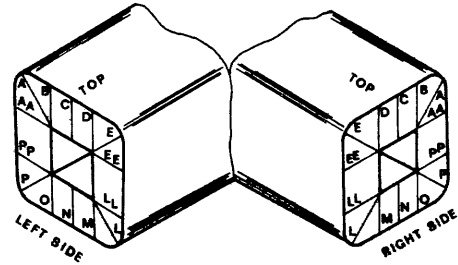
NOTE:
SEE SHT 2 OF 2
FOR OUTLINE AND
CONNECTOR HOOK
UP OF PRIMARY AND
SECONDARY LEADS



NOTE:
SEE SHT 2 OF 2 FOR OUTLINE AND
ASSEMBLY DRAWING.
REF DWGS: A-9100-4149-2
A-9100-9101-1

CORE:	EI 175, M6
METH:	2 x 2 GAP
GROSS AREA:	1 3/4 x 2 3/4
KEEPER:	2 EA
ASSEMBLY:	
IMPREG:	EPOXY
FINISH:	FLAT BLACK
IDENT:	
FAB:	
STATUS	
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<input checked="" type="checkbox"/>	PRELIMINARY
<input type="checkbox"/>	REPLACEMENT

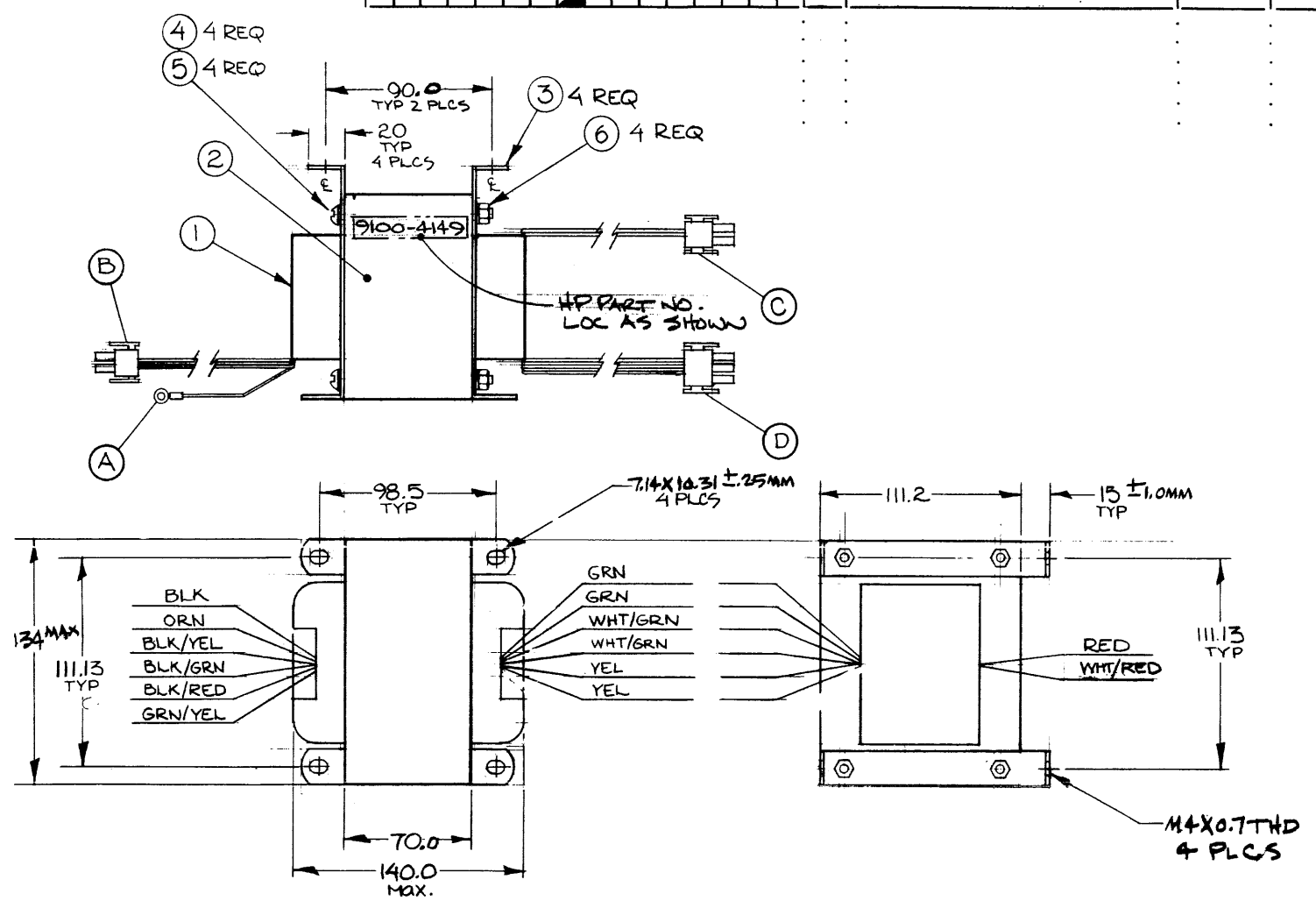
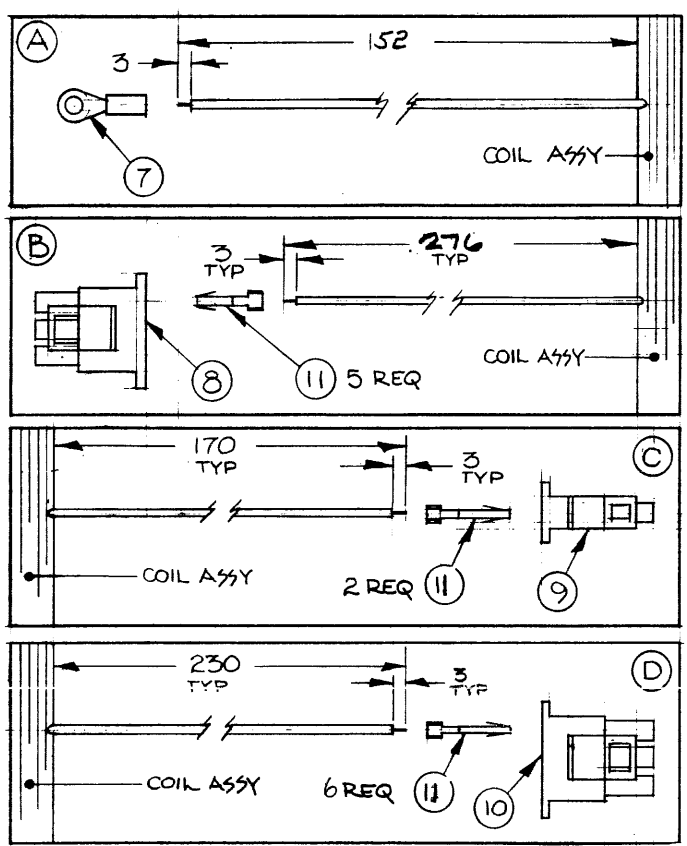
NOTE: SEE 1 FOR BOBBIN NOTCHING
SEE 2 FOR SHIELD PREP.



ITEM QTY.	PART DESCRIPTION	PART NO.
1	1 EA BOBBIN, 1 PC	
2	TAPE, ELEC, X 3.00 W 3M 1300 OR EQUIV.	
3	WIRE, MAGNET, #17 HEAVY NYLON	
4	TAPE, ELEC, X 2.50 W 3M 1300 OR EQUIV.	
5	WIRE, ELEC, #16 AWG UL 1015, BLK	
6	WIRE, ELEC, #16 AWG UL 1015, ORN	
7	WIRE, ELEC, #16 AWG UL 1015, BLK/YEL	
8	WIRE, ELEC, #16 AWG UL 1015, BLK/GRN	
9	WIRE, ELEC, #16 AWG UL 1015, BLK/RED	
10	WIRE, ELEC, #16 AWG UL 1015, GRN/YEL	
11	CU, COP, THICK X 2.437 WIDE	
12	WIRE, MAGNET, #13 AWG HEAVY NYLON	
13	WIRE, ELEC, #16 AWG UL 1015, GRN	
14	WIRE, ELEC, #16 AWG UL 1015, WHT/GRN	
15	WIRE, MAGNET, #20 AWG HEAVY NYLON	
16	WIRE, ELEC, #20 AWG UL 1015, YEL	
17	WIRE, MAGNET, #8 AWG HEAVY NYLON	
18	WIRE, ELEC, #18 AWG UL 1015, WHT/RED	
19	WIRE, ELEC, #18 AWG UL 1015, RED	
20	TAPE, ELEC, X 2.50 W 3M #11 OR EQUIV.	
21	TAPE, ELEC, X 1.25 W 3M #56 OR EQUIV.	
22		
23		

PRINT CONTROL							APPROVAL	DATE
OWG NO	S	PW	FAB	PF	W	TOTAL	BY	11-17-68
							DATE	11-17-68

ITEM QTY.	MATERIAL DESCRIPTION	PART NUMBER
	POWER TRANSFORMER	DIVISION 67
	475 VA	SCD NO.
	HEWLETT-PACKARD	REVISION
		C-9100-4149-1



WIRE COLOR	CONNECTOR	PIN
BLK	B	2
ORN	B	4
BLK/YEL	B	6
BLK/GRN	B	5
BLK/RED	B	3
GRN/YEL	A	1
GRN	D	3
GRN	D	2
WHT/GRN	D	7
WHT/GRN	D	8
YEL	D	9
YEL	D	1
RED	C	1
WHT/RED	C	2

ITEM	QTY.	MATERIAL DESCRIPTION	MAT'L-PART NO.	MAT'L-DWG. NO.	MAT'L-SPEC.
11	13	PIN-FEMALE	1251-3818	350537-1	AMP
10	1	CONNECTOR HOUSING - 9 PIN	1251-4752	350720-1	AMP
9	1	CONNECTOR HOUSING - 2 PIN	1251-4782	350777-1	AMP
8	1	CONNECTOR HOUSING - 6 PIN	1251-3817	350715-1	AMP
7	1	TERMINAL LUG			
6	4	KEPT NUT 10-32			
5	4	FIBRE WASHER #10			
4	4	SCREW-10-32x3/4 LG			
3	4	BRACKET, HORIZ			
2	35 LB	LAM., EI 175 M-6			
1	1	COIL ASSY			

DO NOT SCALE THIS DRAWING	POWER TRANSFORMER 475 VA	HEWLETT PACKARD
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN $\frac{1}{16}$ "		
TOLERANCES $\pm .005$	NONE	9100-4149
SEE CORP. STD. 808	SCALE	C-9100-4149-1