

H720
power supply and
mounting box
engineering drawings

1st Edition March 1971

H720 Power Supply & Mounting Box

D-UA-H720-0-0	4	H720 Power Supply
A-PL-H720-0-0	3	H720 Power Supply (parts list)
D-CS-H720-0-1	1	H720 Circuit Schematic
D-CS-5408475-0-1	1	Power Regulator Board Assembly (A & B Models)
D-CS-5409267-0-1	1	Power Regulator Board Assembly (E & F Models)
D-UA-11/20-0-0	2	Basic Assy/Configuration (PDP-11)
D-UA-H960-CA-0	1	Cabinet Assembly (PDP-11)
D-UA-KY11-A-0	1	Console Assembly KY11-A
D-UA-KY11-B-0	1	Console Assembly KY11-B
D-UA-KY11-C-0	1	Console Assembly KY11-C
E-UA-H952-HA-0	1	Table Assembly
E-UA-BA11-0-0	1	Chassis Assembly (BA11)

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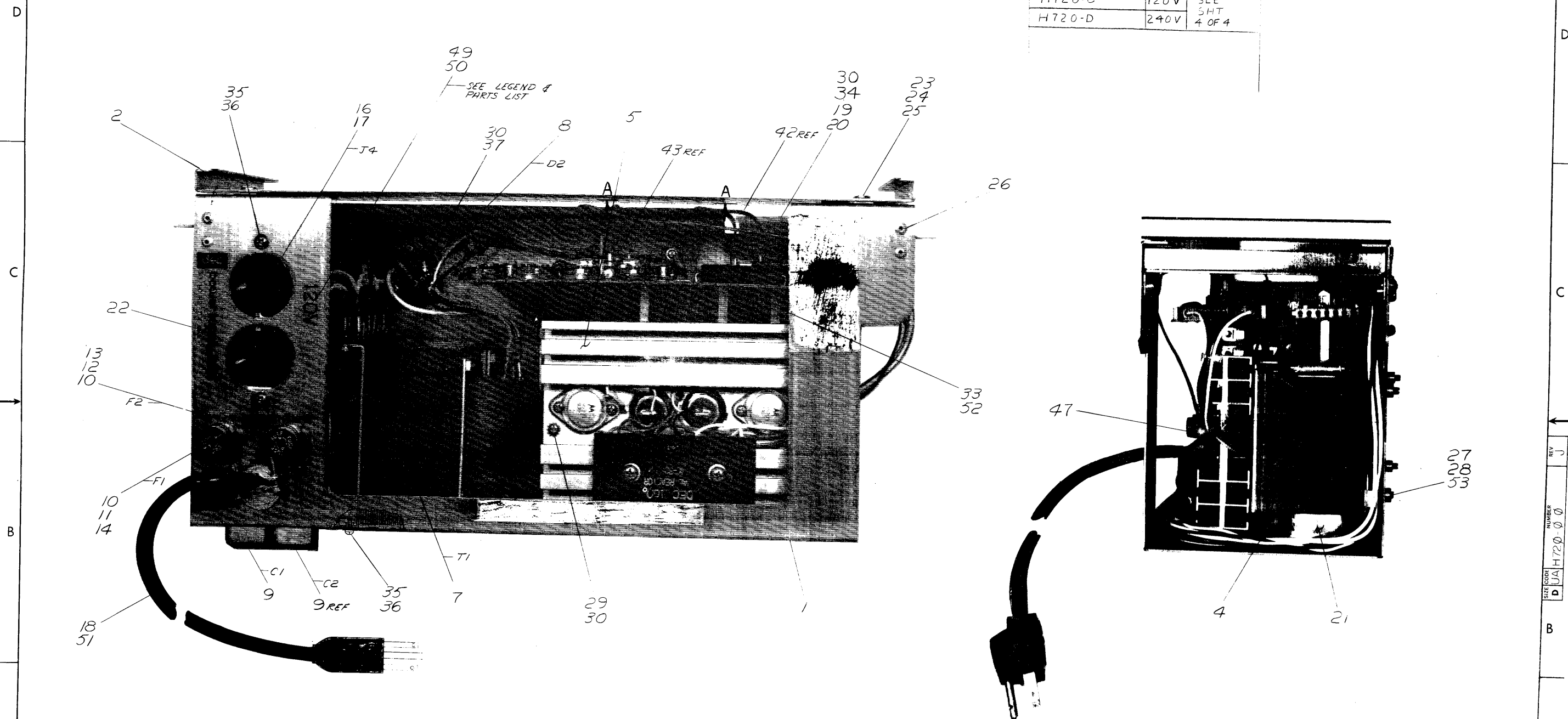
FLIP CHIP
DIGITAL
UNIBUS

FOCAL
COMPUTER LAB

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LEGEND	
PART NUMBER	VARIATION
H720-A	120V 50/60HZ SHOWN
H720-B	240V 50/60 HZ
H720-C	120V SEE SHT 3 OF 4
H720-D	240V SEE SHT 4 OF 4

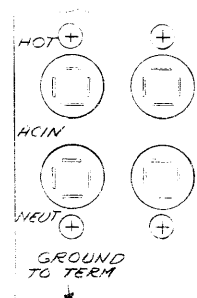
NOTES:
1 FOR CIRCUIT SCHEMATIC REFER TO DWG D-CS-H720-0-1.



REV	DATE	BY	CHK	APP	DESCRIPTION
1	11-10-71	WRE	WRE	WRE	REV
2	11-10-71	WRE	WRE	WRE	REV
3	11-10-71	WRE	WRE	WRE	REV
4	11-10-71	WRE	WRE	WRE	REV
5	11-10-71	WRE	WRE	WRE	REV
6	11-10-71	WRE	WRE	WRE	REV
7	11-10-71	WRE	WRE	WRE	REV
8	11-10-71	WRE	WRE	WRE	REV

FIRST USED ON OPTION/MODEL PDP 11/20		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES		DRN CHKD ENG	DATE DATE DATE	PARTS LIST digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
REMOVE BURRS AND BREAK SHARP CORNERS		MATERIAL		NEXT HIGHER ASSY DUA H720 0 0		SIZE/CODE DUA H720 0 0	
FINISH		SCALE SHEET 1 OF 4		NUMBER DUA H720 0 0		REV J	

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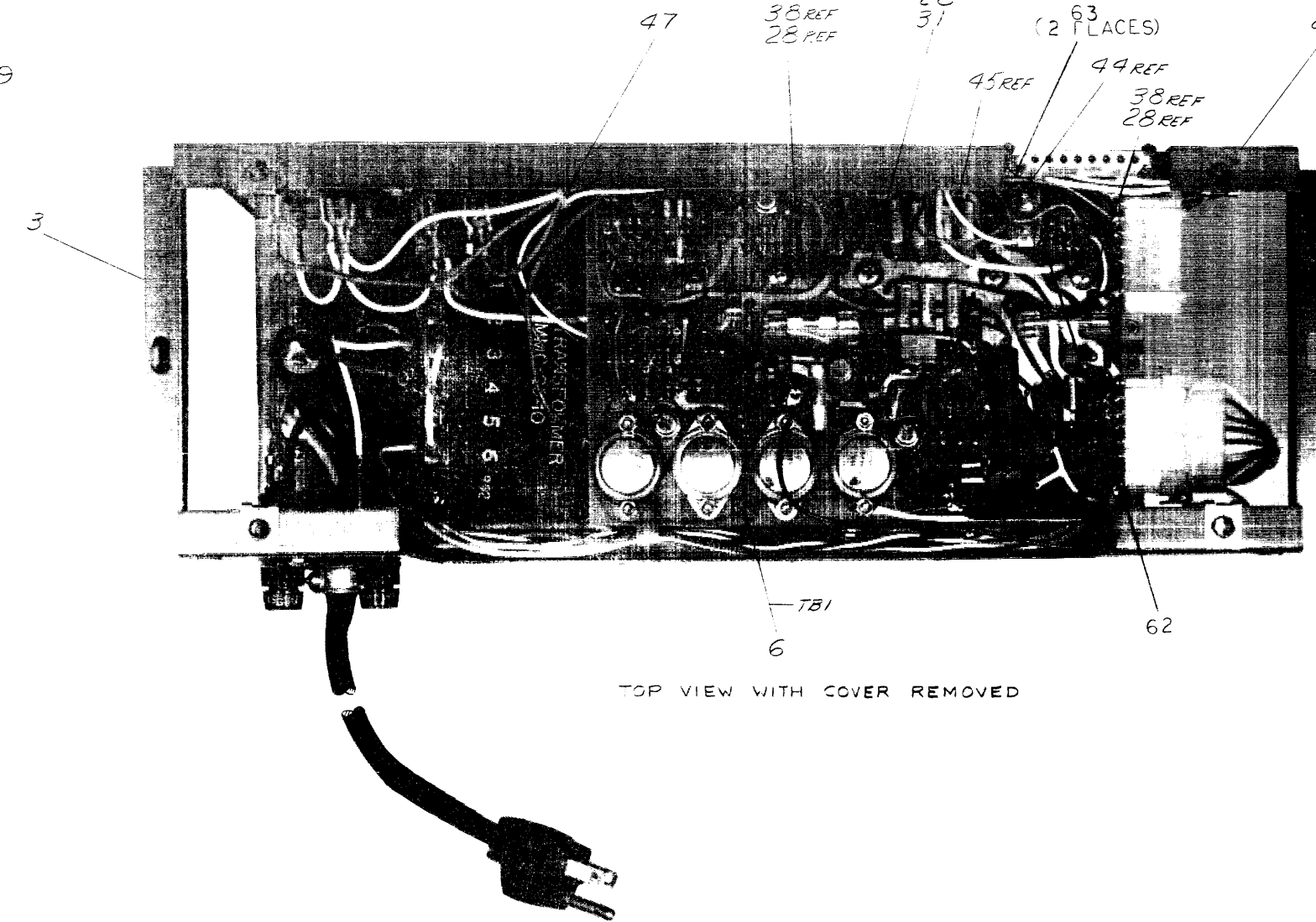
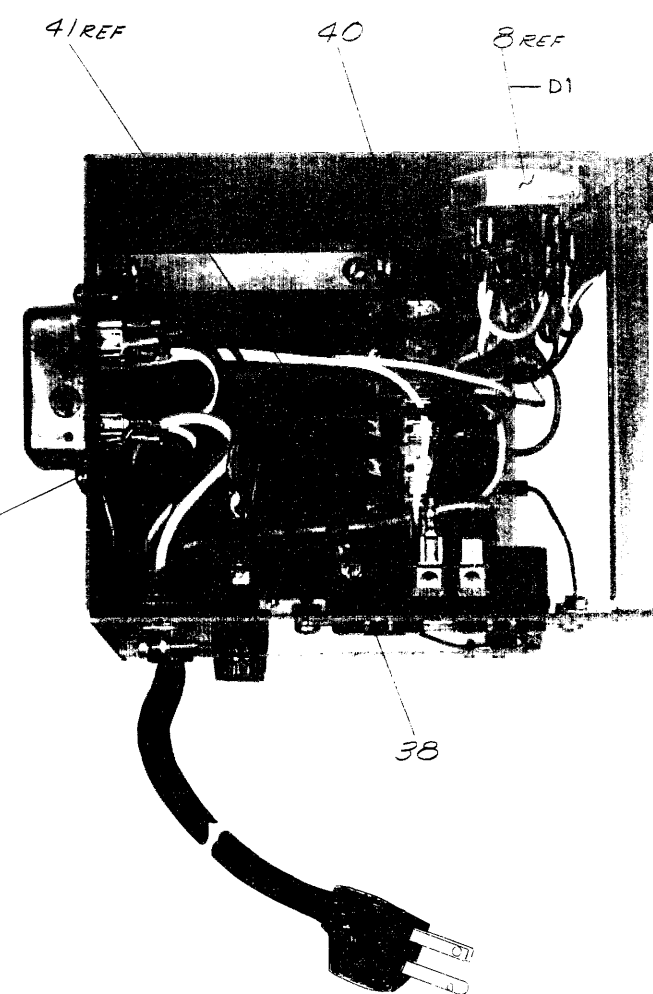


VIEW B-B

CAUTION
CHECK TRANSFORMER
TAPS BEFORE USING

INPUT VOLTAGE	TUMPER	LINE
120 10%	3-6, 1-4	3 4
218 10%	2-5	3 4
225 10%	2-6	3 4
233 10%	1-5	3 4
240 10%	1-6	3 4

VIEW A-A



TOP VIEW WITH COVER REMOVED

REV
CHG

REC FORM NO
DAD 100

FIRST USED ON OPTION/MODEL
PDF 11/20

DO NOT SCALE DRAWING	
UNLESS OTHERWISE SPECIFIED	
DIMENSION IN INCHES	
TOLERANCES	
DECIMALS	FRACTIONS
± .005	± 1/64
FINAL SURFACE QUALITY	
REMOVE BURRS AND BREAK SHARP	
CORNERS	
MATERIAL	
FINISH	

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRN.	MARCOTTE	DATE	1-28-70
CHK'D.	RUSS	DATE	2-3-70
ENG.	BLA-H	DATE	2-4-70
PROJ. ENG.	CADY	DATE	2-4-70
PROD.	MAY DEVA-D	DATE	2-4-70
D-0A-11/20-0-0		SIZE CODE	DUA
SCALE		NUMBER	H720 0 0
SHEET 2 OF 4		DIST.	

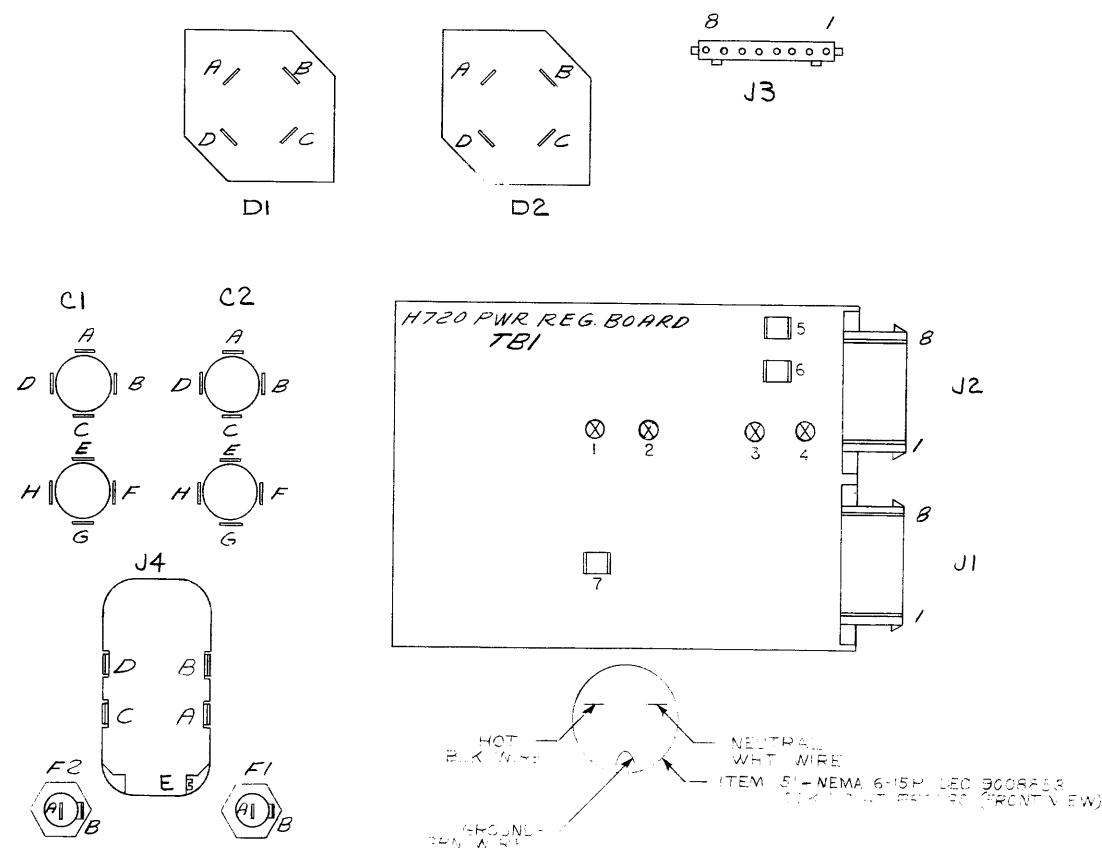
digital EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

TITLE
H720 POWER
SUPPLY ASSEMBLY

REV J
NUMBER
DUA H720-0-0
SIZE CODE
D

QTY.	DESCRIPTION		PART NO.	ITEM NO.
PARTS LIST				
DRN.	DATE	 DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE H7-8 POWER SUPPLY ASSEMBLY	
CHK'D.	DATE			
ENG.	DATE			
PROJ.	DATE	SIZE CODE NUMBER REV. DUA H7 7-8-8 J		
NEXT HIGHER ASSY				
D-CH-1150-0-0				
SCALE				
SHEET 3 OF 4				
DIST.				

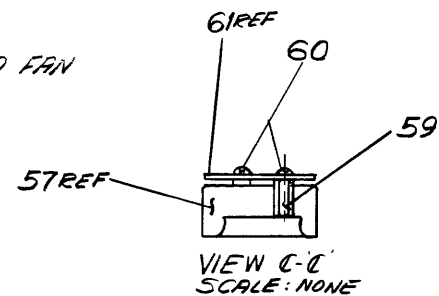
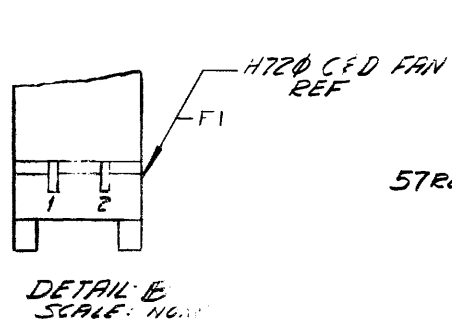
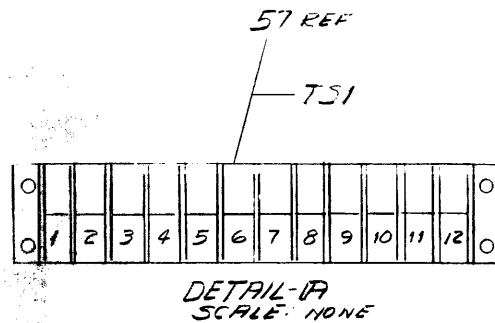
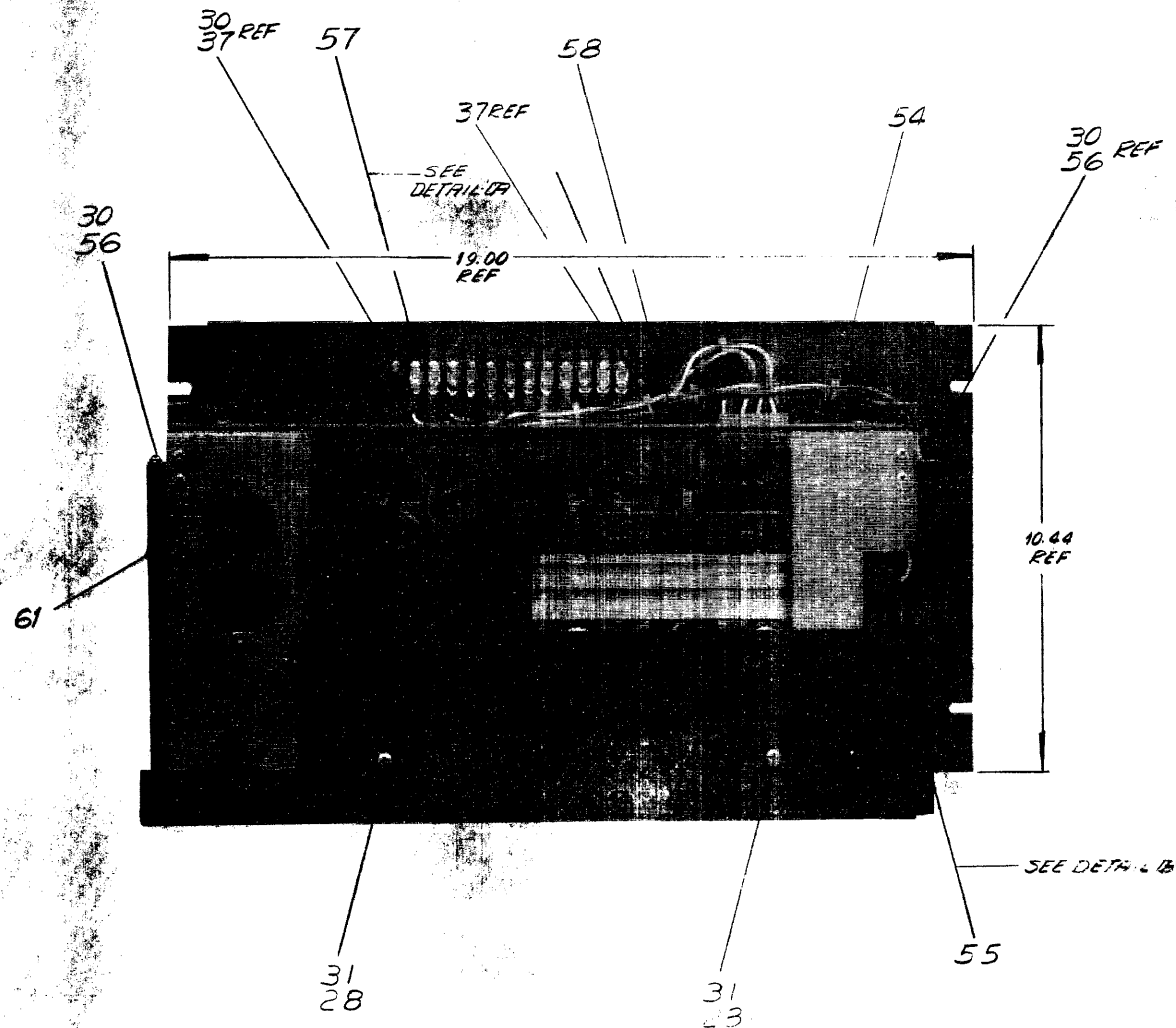
1. WIRING IN CHART IS FOR H720-A
P/S TO CONVERT TO H720-B P/S
DELETE WIRING FROM TI-3 TO
TI-6 & TI-1 TO TI-4, SHOWN BY
ASTERISK (*), ADD WIRE FROM
TI-1 TO TI-6
2. ITEM 51 SHOWN FOR PROPER
-POWER WIRING OF 240 VOLT PLUG



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WIRE TABLE					
ITEM NO.	DESCRIPTION	FROM HARNESS	TO P.S.	REMARKS	
58	14 WHT	1	TSI-1		
	14 RED	2	TSI-2		
	14 WHT	3	TSI-3		
	14 RED	4	TSI-4		
	14 WHT	5	TSI-5		
	14 RED	6	TSI-4		
58	22 YEL	7	TSI-5		

WIRE TABLE					
ITEM NO.	DESCRIPTION	FROM HARNESS	TO P.S.	REMARKS	
58	22 VIO	8	TSI-6		
	11 BLU	9	TSI-7		
	22 ORN	10	TSI-8		
	22 BRN	11	TSI-9		
	22 GRN	12	TSI-10		
	14 BLK	13	TSI-11		
58	14 RED	14	TSI-12		
58	14 RED	15	F1-2	SOLDER-55	
58	14 WHT	16	F1-1	SOLDER-55	



FIRST USED ON OPTION/MODEL
PDP 11/20

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS FRACTIONS ANGLES
± .005 ± 1/64 ± 0°30'
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL
FINISH

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
digital EQUIPMENT CORPORATION NATYARD, MASSACHUSETTS			
TITLE H 720 POWER SUPPLY ASSEMBLY			
NEXT HIGHER ASSY D-UA-11/20-0-0			
SCALE NONE			
SHEET 4 OF 4			
SIZE CODE DUA H720-0-0			
NUMBER J			
REV. J			

REV.	CHANGE NO.
CHK	

DEC FORM NO. 100

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY P. MARCOTTE

CHECKED	K, RUSS
---------	---------

SECTION

DATE 1/26/70

DATE 1/29/70

1

ENG *APB*

DATE	
PROD	11/11/11

ISSUED SECT.	
--------------	--

DATE 2/4/70

DATE 2/4/90

1

ITEM NO.	DWG NO./PART NO. CL BASIC VAR.	DESCRIPTION	H72	H72	H72	H72	UNIT COST		UNIT QUANTITY	QUANTITY ISSUED
1	E-IA-5308519-0-0	PWR SUPPLY CHASSIS	1	1	1	1				
2	C-MD-5308518-0-0	PWR SUPPLY COVER	1	1	1	1				
3	C-MD-5308521-0-0	BRKT SUPPORT	2	2	2	2				
4	D-MD-5308520-0-0	CAPACITOR BRKT	1	1	1	1				
5	D-AD-5408525-0-0	HEAT SINK ASSY	1	1	1	1				
6	D-AD-5408475-0-0	PWR REGULATOR BD ASSY	1	1	1	1				
7	1609810	TRANSFORMER MMC 2940	1	1	1	1				
8	1105799	DIODE BRIDGE DM15	2	2	2	2				
9	1002153	CAPACITOR 2 X .1 MFD 1000V	2	2	2	2				
10	9007242	FUSEHOLDER 15 AMP 250 V	2	2	2	2				
11	9007227	FUSE AGC 15 AMP SLO-BLO	1		1					
12	9007222	FUSE AGC 5 AMP-SLO-BLO	1		1					
13	9007220	FUSE AGC 4 AMP SLO-BLO		1		1				
14	9007225	FUSE AGC 10 AMP SLO-BLO		1		1				
15	1809668	ROME X 3/8 CONN	1	1	1	1				
16	1205351	AC DUPLEX OUTLET	1		1					
17	9008856	OUTLET DUPEX NEMA 6-15R		1		1				
18	9107673-15	#14/3 600V PWR CORD 15 FT LG	1	1	1	1				
19	1209340-00	AMP CONN #1-480459-0	1	1	1	1				
20	1209379-01	CONTACT AMP #60619-4	8	8	8	8				
21	1009189	CAPACITOR 22,000 MFD 50V	2	2	2	2				
22	B-DC-5308524-0-0	P/S DECALS	A/BA	BAR	AR	AR				

TITLE H720 POWER SUPPLY		ASSY NO. D-UA-H720-0-0	SIZE A	CODE PL	NUMBER H720-0-0		REV. J	ECO NO. H720-00013
SHEET 1 OF 3		DIST. 6						

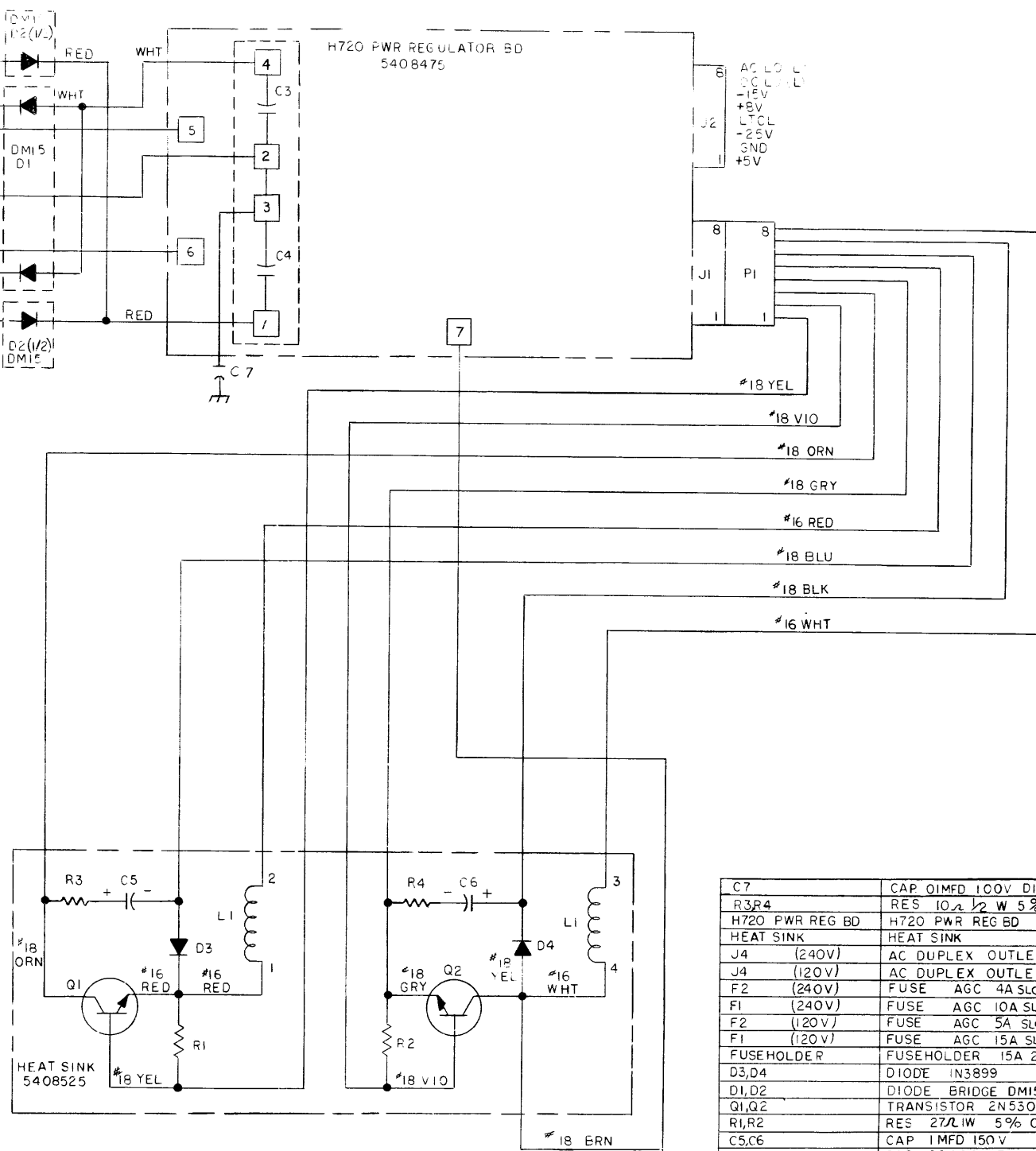
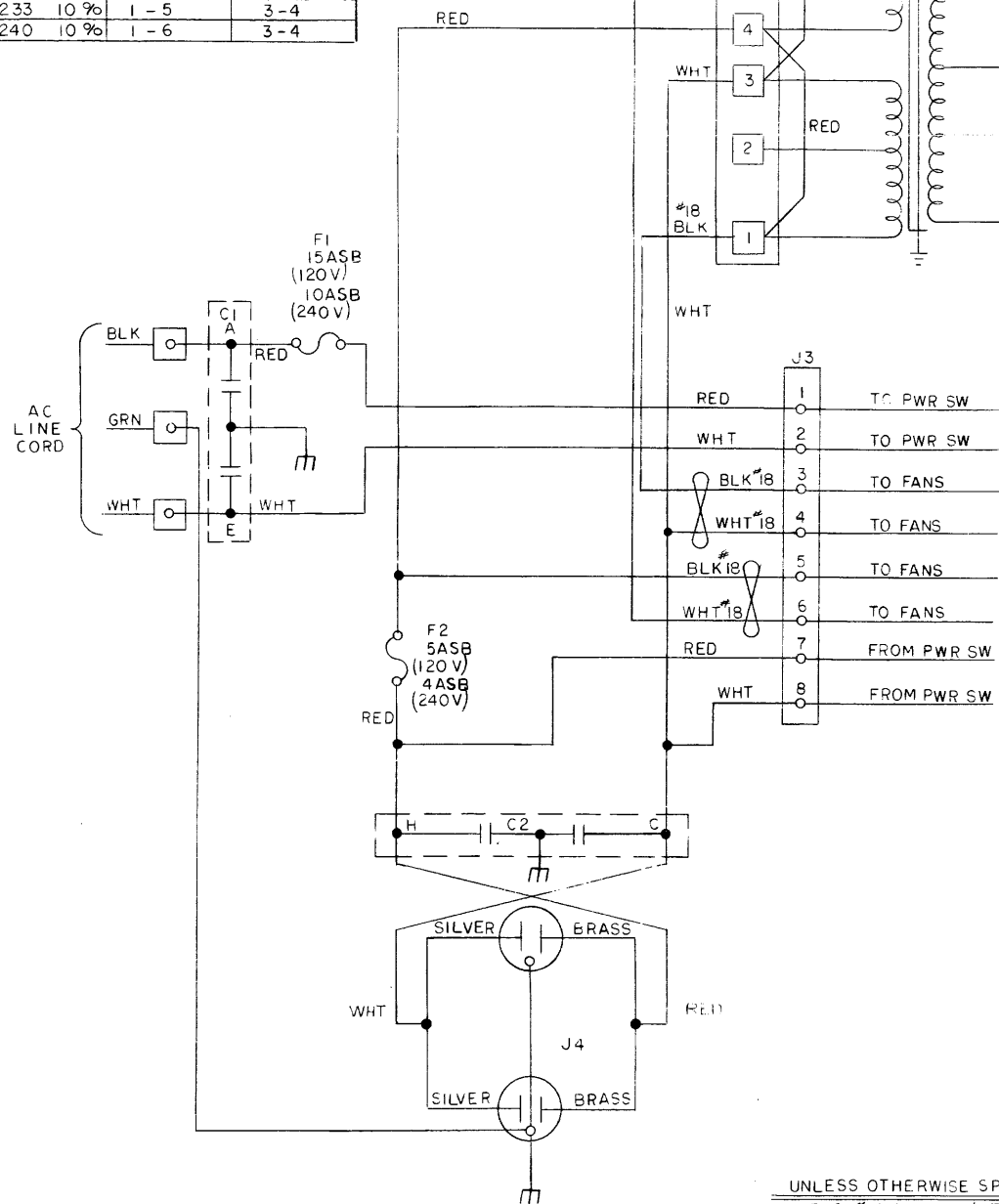
DEC FORM NO. 16-1027
DRA 123

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS					QTY/VAR												
PARTS LIST																	
MADE BY P. MARCOTTE			CHECKED K. RUSS		SECTION												
DATE 1/27/70			DATE 1/29/70		1												
ENG <i>CRB</i>			PROD <i>Thane Donald</i>		ISSUED SECT.												
DATE 2/4/70			DATE 2/4/70		1												
ITEM NO.	DWG NO./PART NO. CL BASIC VAR.	DESCRIPTION			H720-A	H720-B	H720-C	H720-D	UNIT COST	UNIT QUANTITY	QUANTITY ISSUED						
23	9008196	CLIP ON RECEP #82-47-104-15 SOUTHCO			4	4	4	4									
24	9008198	1/4 TURN FASTENER #82-11-160-16 SOUTHCO			4	4	4	4									
25	9008200	1/4 TURN FAST RET RING #82-32-101-17 SOUTHCO			4	4	4	4									
26	9009054	POP RIVET SD43BS			8	8	8	8									
27	9006072-1	SCR PHL PAN PD #10-32 X 7/16 LG			4	4	4	4									
28	9006635	LOCK WASHER, INT TOOTH #10			10	10	12	12									
29	9006028-1	SCR PHL PAN HD #6-32 X 1" LG			2	2	2	2									
30	9007649	LOCKWASHER EXT TOOTH #6			12	12	16	16									
31	9006071	SCR PHL TRUSS HD #10-32 X 3/8 LG			4	4	2	2									
32	9007596	CONN, ARKLESS #3000 M446			3	3											
33	9007871	SPACER, 3/8 AF X 1" LG #10-32			4	4	6	6									
34	9006021-1	SCR, PHL PAN HD #6-32 X 5/16 LG			6	6	6	6									
35	9006037-1	SCR, PHL PAN HD #8-32 X 3/8 LG			6	6	6	6									
36	9006563	NUT, KEPS #8-32			6	6	6	6									
37	9006026-1	SCR, PHL PAN HD #6-32 X 3/4 LG			4	4	8	8									
38	9007928	CONN, ARKLESS #50364			4	4	4	4									
39	9007925	CONN, ARKLESS #3000-H21A			4	4	4	4									
40	9007917	CONN, ARKLESS #50902			36	36	36	36									
41	9107370-22	WIRE #14 AWG STRD TEF INS (RED)			A/RA/RA/RA	A/RA/RA/RA	A/RA/RA/RA	A/RA/RA/RA									
42	9107370-99	WIRE #14 AWG STRD TEF INS (WHT)			A/RA/RA/RA	A/RA/RA/RA	A/RA/RA/RA	A/RA/RA/RA									
43	9107370-00	WIRE #14 AWG STRD TEF INS (BLK)			A/RA/RA/RA	A/RA/RA/RA	A/RA/RA/RA	A/RA/RA/RA									
44	9107360-22	WIRE #18 AWG STRD TEF INS (RED)			A/RA/RA/RA	A/RA/RA/RA	A/RA/RA/RA	A/RA/RA/RA									
TITLE		H720 POWER SUPPLY		ASSY NO.	D-UA-H720-0-0		SIZE CODE	A PL		NUMBER	H720-0-0		REV.	J		ECO NO.	
				SHEET	2 OF 3		DIST.	G									

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS					QTY/VAR							
PARTS LIST												
MADE BY P. MARCOTTE			CHECKED K RUSS		SECTION							
DATE 1/27/70			DATE 1/29/70		1							
ENG C. P. Chase 3/4/70			PROD H. MacDonald		ISSUED SECT.							
DATE			DATE 2/4/70		1							
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION			H720-A	H720-B	H720-C	H720-D	UNIT COST	UNIT QUANTITY	QUANTITY ISSUED	
	CL BASIC VAR.											
45	9107360-99	WIRE #18 AWG STRD TEF INS (WHT)			A/R	A/R	A/R	A/R				
46	9107430-09	WIRE #18 AWG TWP TEF INS (BLK & WHT)			A/R	A/R	A/R	A/R				
47	9007031	TIE WRAP SST-1-B PANDUIT			A/R	A/R	A/R	A/R				
48	9107254	TUBING, SHRINK WHT 3/16 DIA			A/R	A/R	A/R	A/R				
49	A-DC-5308771-0-0	P/S DECALS (120V)			A/R	A/R						
50	A-DC-5308772-0-0	P/S DECALS (240V)				A/R	A/R					
51	9008853	PLUG Male #566 A.H.				1	1					
52	9006314	10-32 x 1/2 Set Scr			4	4	4	4				
53	9007081	CLAMP, 1/4" HOLUB			2	2	2	2				
REF	D-CS-H720-0-1	CIRCUIT SCHEMATIC										
REF	A-SP-H720-0-7	ADJUSTMENT PROCEDURE										
54	D-AD-7007110-0-0	FRAME ASSY					1	1				
55	9107305	TUBING SHRINCABLE 3/16 O.D.					2	2				
56	9006022-1	SCR PHL HD PAN 6-32X 3/8 SST					2	2				
57	9006917	TERMINAL STRIP # 12-541 CINCH JONES					1	1				
58	D-IA-7007115-0-0	WIRE HARNESS H720 C&D					1	1				
59	9006807	SPACER, 1/4 A.F.X 3/4 LG # 6					2	2				
60	9007853-1	SCR, PHL, PAN HD # 6-32X 1-1/8 LG					2	2				
61	B-MD-100156-12	PROTECTION, COVER (541 TERMSTRIP)					1	1				
62	1Ø-Ø161Ø	CAP .01 MFD 100V DISC CERAMIC			1	1	1	1				
63	9Ø-Ø793Ø	ARKLESS #50360			2	2	2	2				
TITLE					ASSY NO.		SIZE CODE		NUMBER		REV.	ECO NO.
H720 POWER SUPPLY					D-UA-H720-Ø-Ø		A PL		H720-Ø-Ø		J	
					SHEET 3 OF 3		DIST. 6					

DEC FORM NO. 16-1027
DRA 123

INPUT VOLTAGE	JUMPERS	CONNECTIONS
120 10%	3-6 1-4	3-4
218 10%	2-5	3-4
225 10%	2-6	3-4
233 10%	1-5	3-4
240 10%	1-6	3-4



CIRCUIT SHOWN WIRED FOR 120V.
FOR DIFFERENT VOLTAGE REFER TO JUMPER TABLE.

REF DESIGNATION	DESCRIPTION	PART NO
C7	CAP 01MFD 100V DISC.	1001610
R3,R4	RES 10 1/2 W 5%	1300168
H720 PWR REG BD	H720 PWR REG BD	5408475-0-0
HEAT SINK	HEAT SINK	1209685
J4 (240V)	AC DUPLEX OUTLET	9008856
J4 (120V)	AC DUPLEX OUTLET	1205351
F2 (240V)	FUSE AGC 4A SLO-BLO	9007220
F1 (240V)	FUSE AGC 10A SLO-BLO	9007225
F2 (120V)	FUSE AGC 5A SLO-BLO	9007222
F1 (120V)	FUSE AGC 15A SLO-BLO	9007227
FUSEHOLDER	FUSEHOLDER 15A 250V	9007242
D3,D4	DIODE 1N3899	1109781
D1,D2	DIODE BRIDGE DM15	1105799
Q1,Q2	TRANSISTOR 2N5301	1509737
R1,R2	RES 27 1/2 W 5% CC	1302558
C5,C6	CAP 1MFD 150V	1000063
C3,C4	CAP. 22000 MFD 50V	1009189
C1,C2	CAP 2 X 1MFD 1000V	1002153
PI	CONNECTOR 1 480460 0	1209340-01
J1,J2,J3	RECEPTACLE 1-480459-0	1209340-00
L1	TRANSFORMER COIL	1609762
T1	TRANSFORMER MMC 2940	1609810

REF DESIGNATION	DESCRIPTION	PART NO
PI	CONNECTOR 1 480460 0	1209340-01
J1,J2,J3	RECEPTACLE 1-480459-0	1209340-00
L1	TRANSFORMER COIL	1609762
T1	TRANSFORMER MMC 2940	1609810

REVISIONS	DATE	BY	CHK
1	2/10/70	W. J. W.	
2	2/11/70	W. J. W.	
3	2/11/70	W. J. W.	
4	2/11/70	W. J. W.	

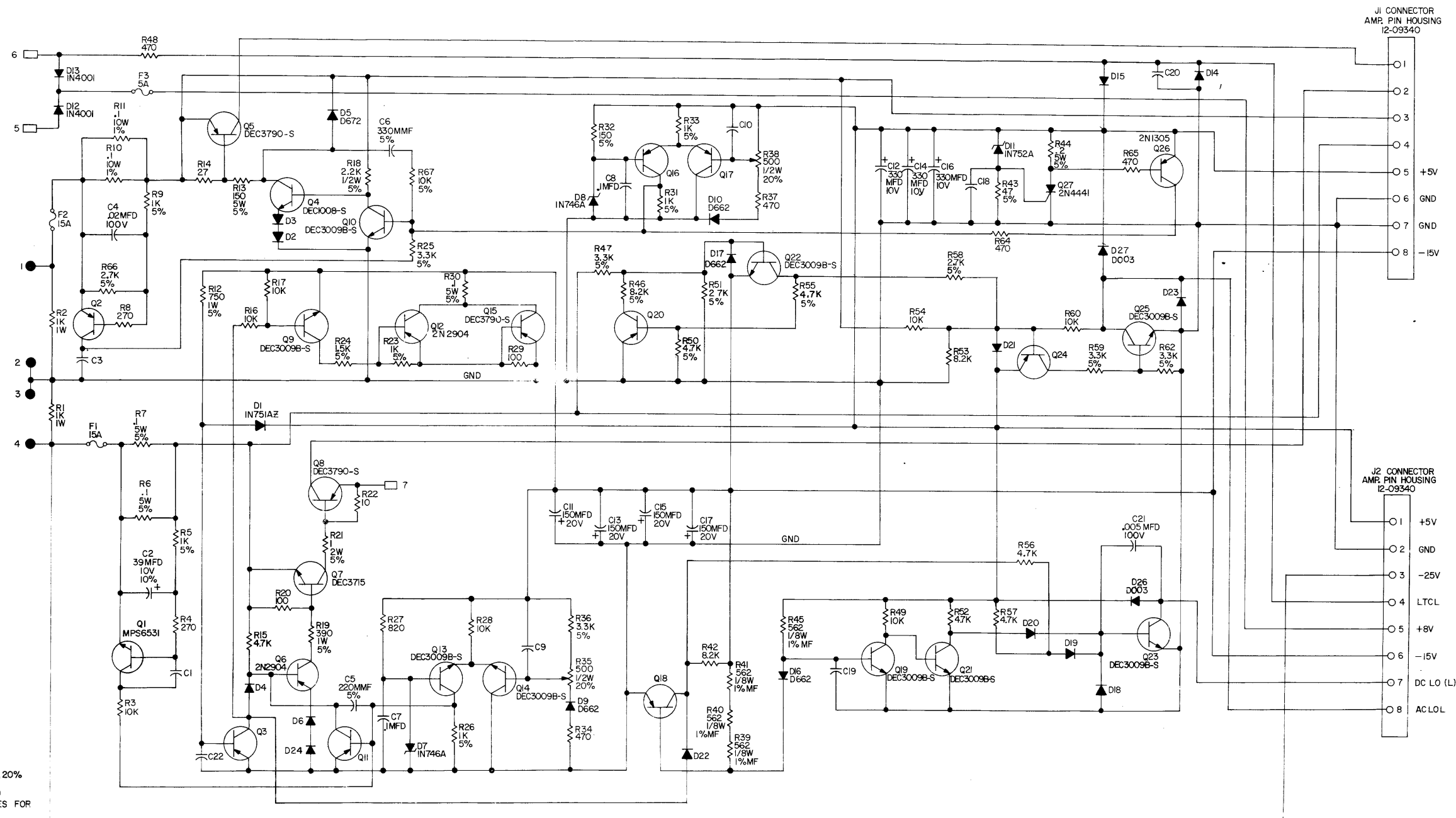
DATE	BY	CHK
2/10/70	W. J. W.	
2/11/70	W. J. W.	
2/11/70	W. J. W.	

TRANSISTOR & DIODE CONVERSION CHART	DATE	BY	CHK
DEC	2/10/70	W. J. W.	
EIA	2/11/70	W. J. W.	
DEC	2/11/70	W. J. W.	
EIA	2/11/70	W. J. W.	

TITLE	DATE	BY	CHK
digital POWER SUPPLY H720	2/10/70	W. J. W.	
EQUIPMENT CORPORATION	2/11/70	W. J. W.	
PRINTED CIRCUIT REV.	2/11/70	W. J. W.	

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5408475-0-1
D CS
F



UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 10%
CAPACITORS ARE 0.1MFD, 100V, 20%
DIODES ARE D664
TRANSISTORS ARE DEC6534D
● INDICATES 1/16 DIA HOLES FOR
MOUNTING CAPACITORS
□ INDICATES FAST ON TABS

NOTE: "A" BOARDS HAVE BEEN RETRO-FITTED
TO "B" BOARD EXCEPT FUSE (F3-5AMP)

NOTE: GROUND JUMPER WILL NOT SHOW ON CKT. SCHEM.

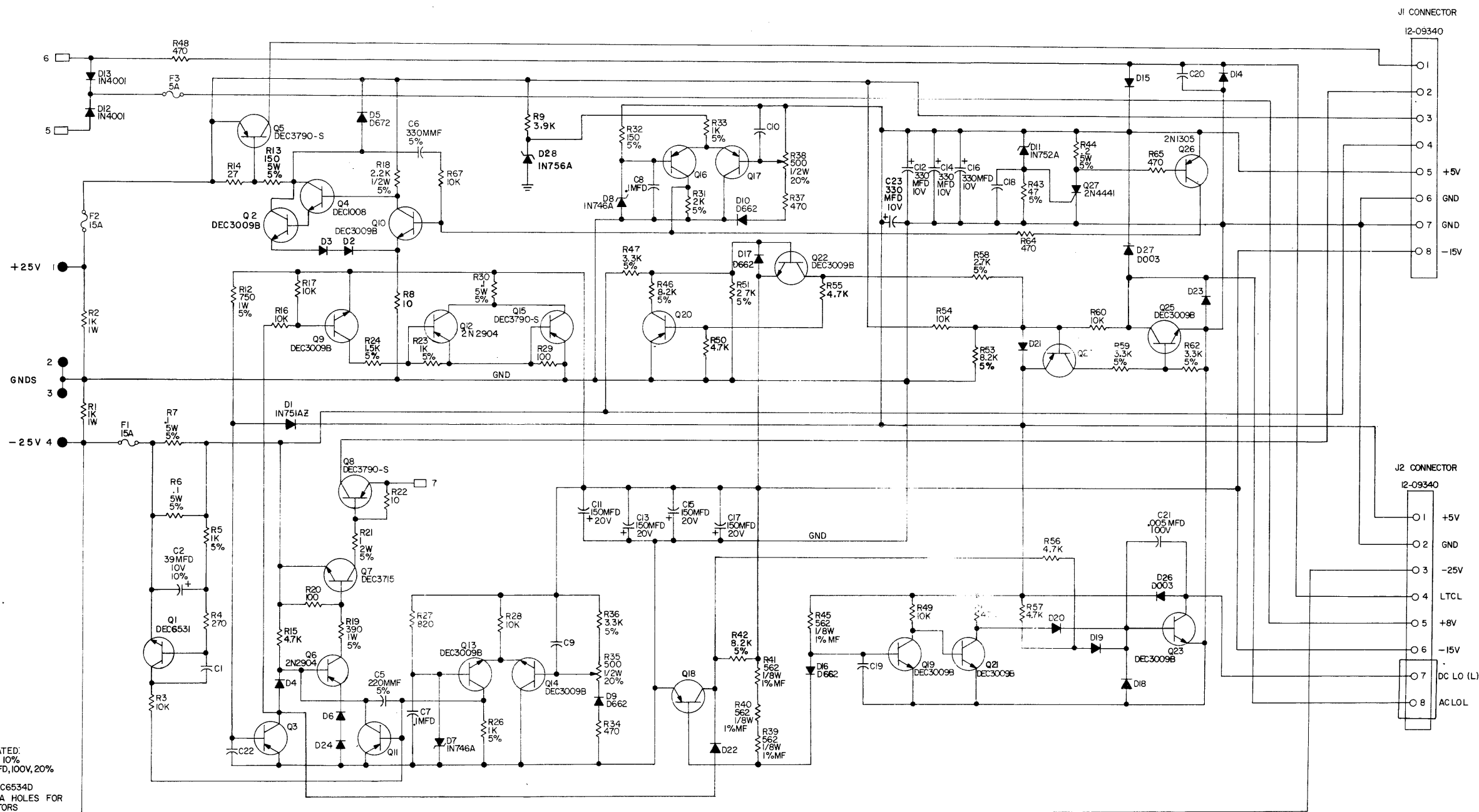
REV	CHG	NO	BY
00001	A		
00002	B		
00003	C		
00004	D		
00005	E		
00006	F		

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
MPS6531	SAME		
2N2904	SAME		
D662	IN3653		
D664	IN3606		
IN746A	SAME		
IN751A2	SAME		

TITLE		5408475-0-1
BOARD		5408475
SIZE	D	CS
NUMBER	5408475-0-1	REV
PRINTED CIRCUIT REV		F

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Y 1-0-1926049 SC D
A48 48MMIN 2000 1115

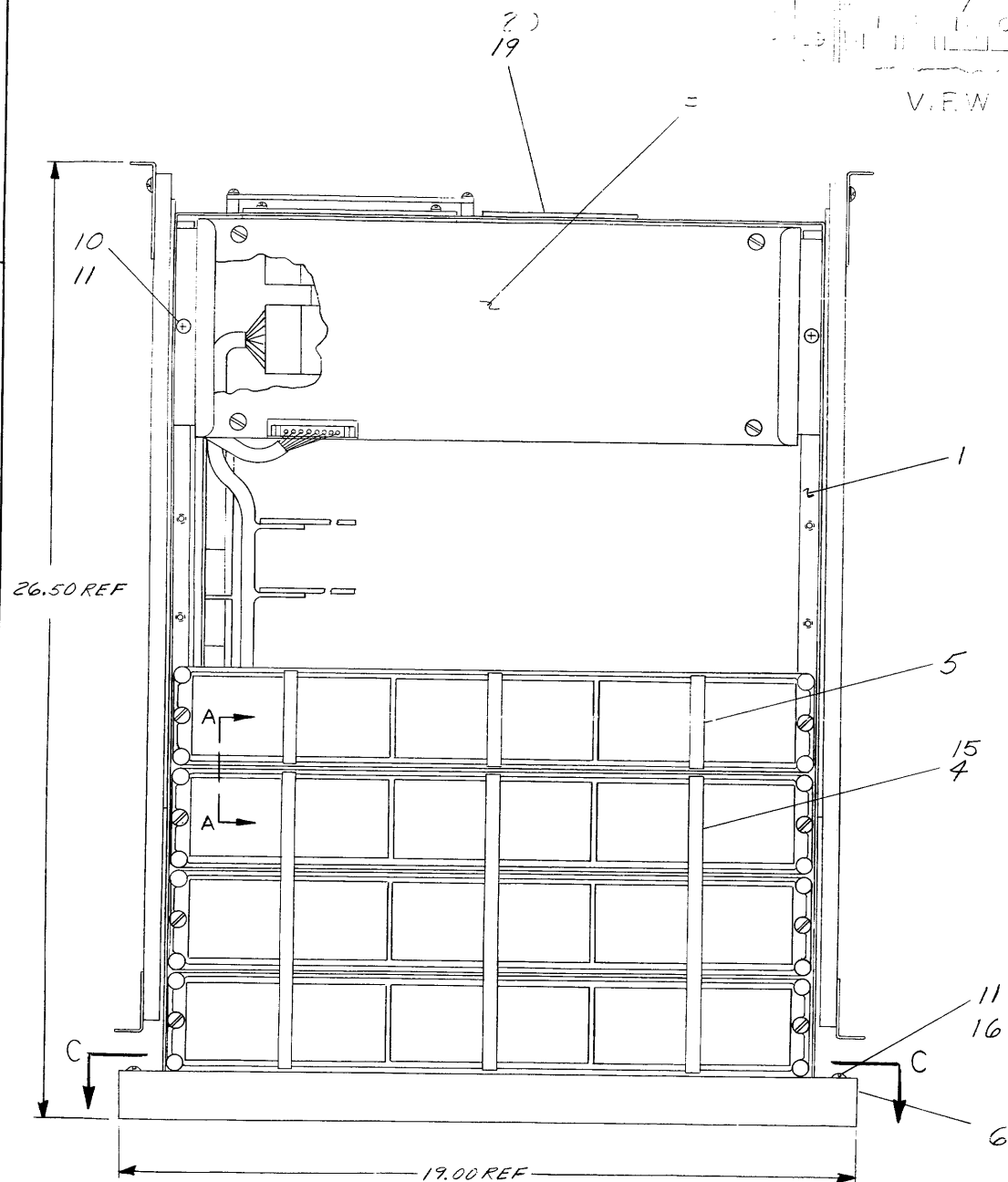


UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 10%
CAPACITORS ARE .01MFD, 100V, 20%
DIODES ARE D664
TRANSISTORS ARE DEC6534D
● INDICATES 11/64 DIA HOLES FOR MOUNTING CAPACITORS
□ INDICATES FAST ON TABS

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
2N1305	SAME	IN756A	IN994
DEC6531	MPS6531	2N2904	SAME
2N4441	SAME	D662	1N645
D672	IN3653	IN756A	SAME
DEC3715	2N3715	DEC3790 S	2N3790
2N2904	SAME	D664	IN3606
D662	1N645	IN4001	SAME
D664	IN3606	IN746A	SAME
IN4001	SAME	IN751A2	SAME
IN746A	SAME		
IN751A2	SAME		

TITLE REGULATOR BOARD			
5409267			
EQUIPMENT CORPORATION			
SIZE D	CODE CS	NUMBER 5409267-0-1	REV A
MAYNARD, MASSACHUSETTS			
PRINTED CIRCUIT REV B			

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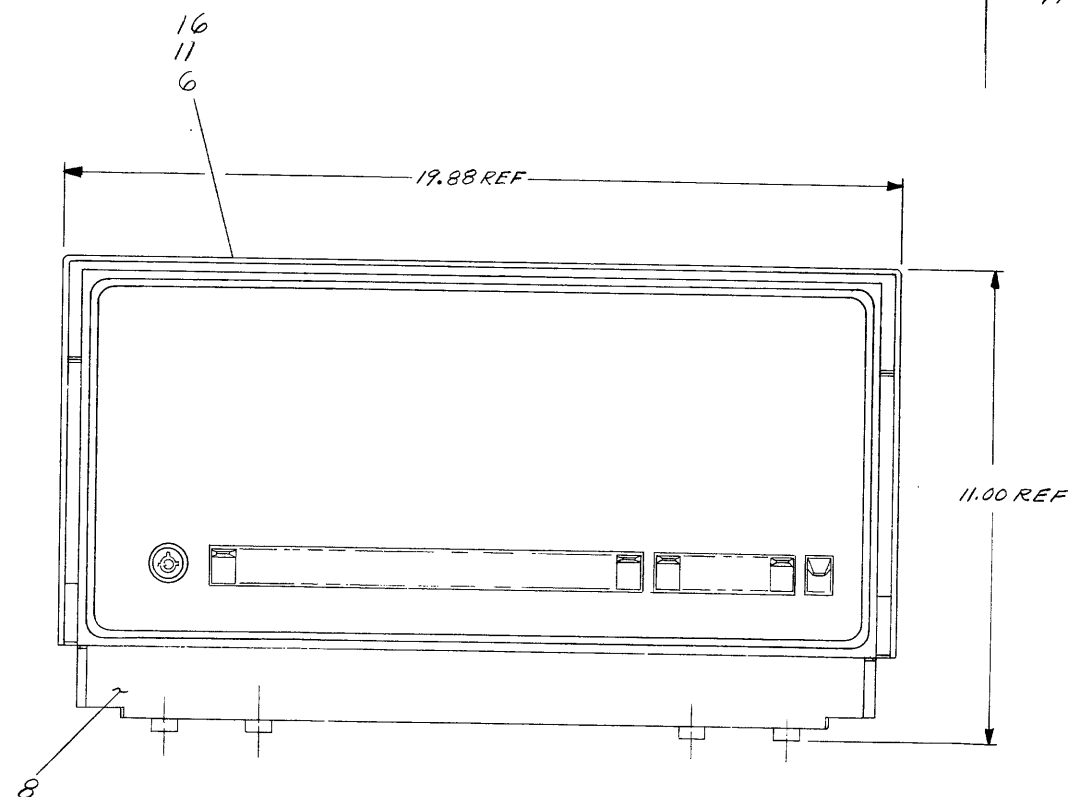
VIEW OF BASIC UNIT WITH
TOP COVER REMOVED (RACK MTD)

V.F.W C-C

LEGEND		
NUMBER	VARIATION	
11/20-AA	RACK MOUNTED, TTY	115V 60HZ
11/20-AB	RACK MOUNTED, TTY	230V 50HZ
11/20-BA	TABLE MODEL, TTY	115V 60HZ
11/20-BB	TABLE MODEL, TTY	230V 50HZ
11/20-CA	CAB. MODEL, TTY	115V 60HZ
11/20-CB	CAB. MODEL, TTY	230V 50HZ
11/20-DA	RACK MOUNTED, TTY - (DEM)	115V 60HZ
11/20-DB	RACK MOUNTED, TTY - (DEM)	230V 50HZ
11/20-EA	TABLE MODEL, TTY - (DEM)	115V 60HZ
11/20-EB	TABLE MODEL, TTY - (DEM)	230V 50HZ
11/20-FA	CAB. MODEL, TTY - (DEM)	115V 60HZ
11/20-FB	CAB. MODEL, TTY - (DEM)	230V 50HZ
11/20-HA	RACK MOUNTED, NTTY - (DEM)	115V 50/60HZ
11/20-HB	RACK MOUNTED, NTTY - (DEM)	230V 50/60HZ
11/20-JA	TABLE MODEL, NTTY - (DEM)	115V 50/60HZ
11/20-JB	TABLE MODEL, NTTY - (DEM)	230V 50/60HZ
11/20-KA	CAB. MODEL, NO TTY - (DEM)	115V 50/60HZ
11/20-KB	CAB. MODEL, NO TTY - (DEM)	230V 50/60HZ

NOTES

- FOR LUG INDEX LIST REFER TO D-DI-11/20-0-1.
- HOLES #49 & #50 ARE USED TO MOUNT CHASSIS SLIDE (PART OF ITEM #1) FOR CAB MODEL.
- ITEMS #7, #9 FOR SHIPMENT ONLY, TO BE REMOVED AFTER FINAL SHIPMENT. REAR SCREW OF BRKT TO BE INSTALLED BACK INTO TRACK.
- WHEN 6 UNIT SPACES ARE FILLED SYSTEM WILL REQUIRE ADDITIONAL EXPANDER UNIT (ITEM #18) & H720 P/S (ITEM #3).
- M920 INTERNAL BUS CONN SUPPLIED WITH EACH ADDITIONAL LOGIC OPTION. FOR CONNECTING OPTIONS IN BASIC UNIT WITH OPTIONS IN EXPANDER UNIT (ITEM #18) USE CABLE BC11A-8F-0 (PART OF ITEM #18).



FRONT VIEW (TABLE MODEL)
OF BASIC UNIT WITH SUPER
COVER. EXPANDER UNIT THE
SAME EXCEPT IN PLACE OF
ITEM #1, 6, 11 & 16 USE ITEM #18

REV	DATE	BY	CHK	NO	INT
1	11/20/70	1	1	1	1
2	11/20/70	1	1	1	1
3	11/20/70	1	1	1	1
4	11/20/70	1	1	1	1
5	11/20/70	1	1	1	1
6	11/20/70	1	1	1	1
7	11/20/70	1	1	1	1
8	11/20/70	1	1	1	1

DEC FORM NO
CRD 100

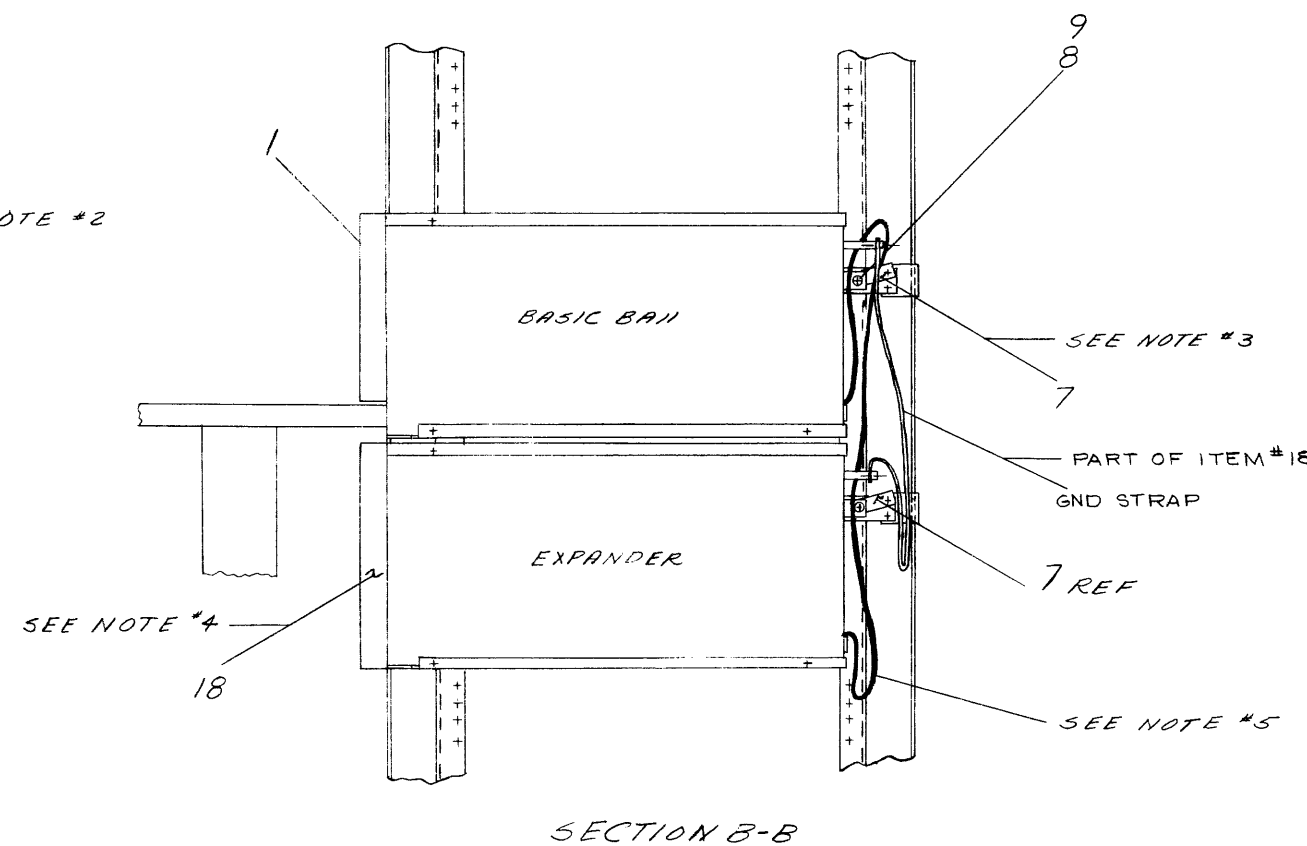
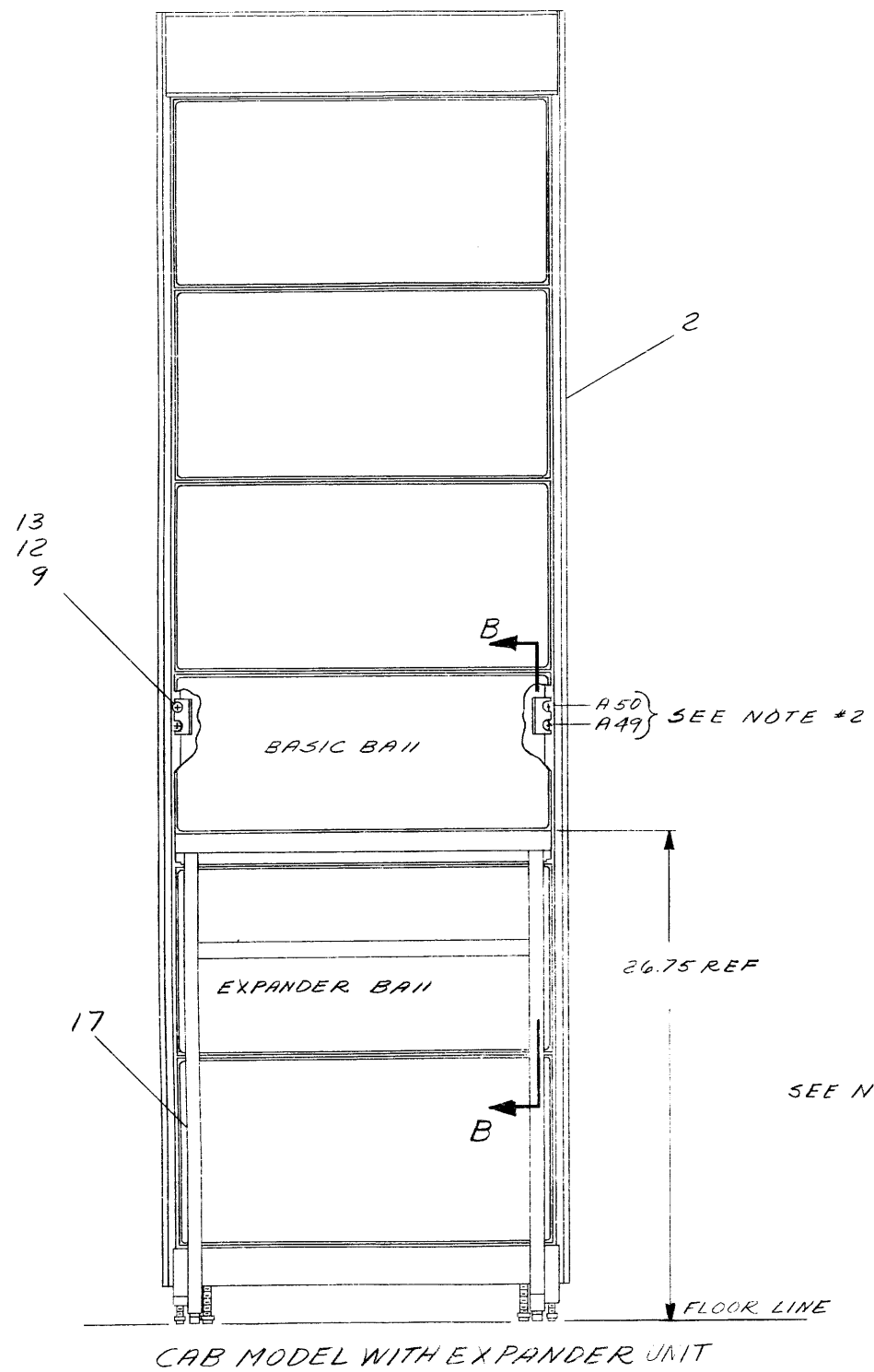
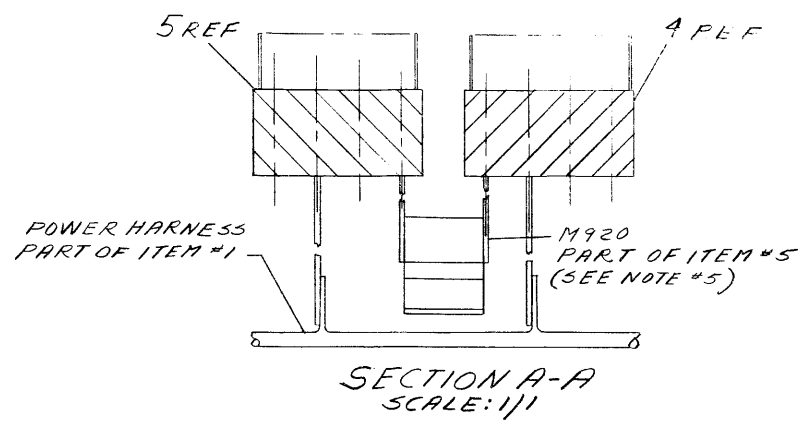
FIRST USED ON OPTION/MODEL
PDPII

DO NOT SCALE DRAWING		
UNLESS OTHERWISE SPECIFIED	DIMENSION IN INCHES	
TOLERANCES	DECIMALS	FRACTIONS ANGLES
REMOVE BURRS AND BREAK SHARP CORNERS	MATERIAL	
NEXT HIGHER ASSY	FINISH	

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
TITLE BASIC ASSY			
CONFIGURATION (PDPII)			
PROD. DATE 11/20/70	DATE 11/20/70	SIZE CODE DUA 11/20-0-0	NUMBER 1
SCALE 1/2	SHEET 1 OF 1	DIST. 1	REV 1

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0-0-02/11/70 a 2



FIRST USED ON OPTION/MODEL
PDPII

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS FRACTIONS ANGLES
± .005 ± 1/64 ± 0°30'
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL
FINISH

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRN.	DATE	DATE	DATE
CHK'D.	12/4/70	12/4/70	12/4/70
ENG.	12/4/70	12/4/70	12/4/70
PROJ. ENG.	12/4/70	12/4/70	12/4/70
PROD.	12/4/70	12/4/70	12/4/70
NEXT HIGHER ASSY A 11/20-0			
SCALE	NONE	NUMBER	REV.
SHEET	OF 2	DIST.	A

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

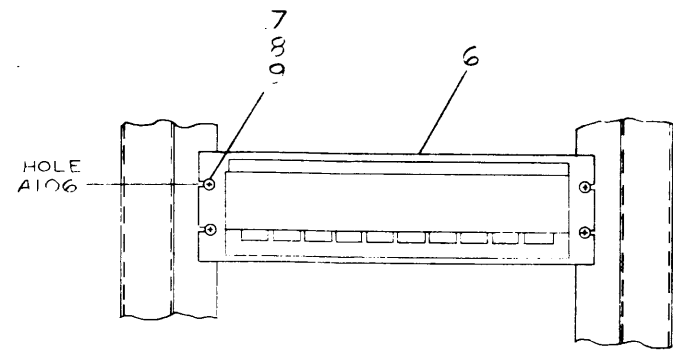
TITLE
BASIC ASSEMBLY/
CONFIGURATION
(PDPII)

SIZE CODE
DUA 11/20-0-0

REV.	CHANGE NO.
1	1

DEC FORM NO
DQP 100

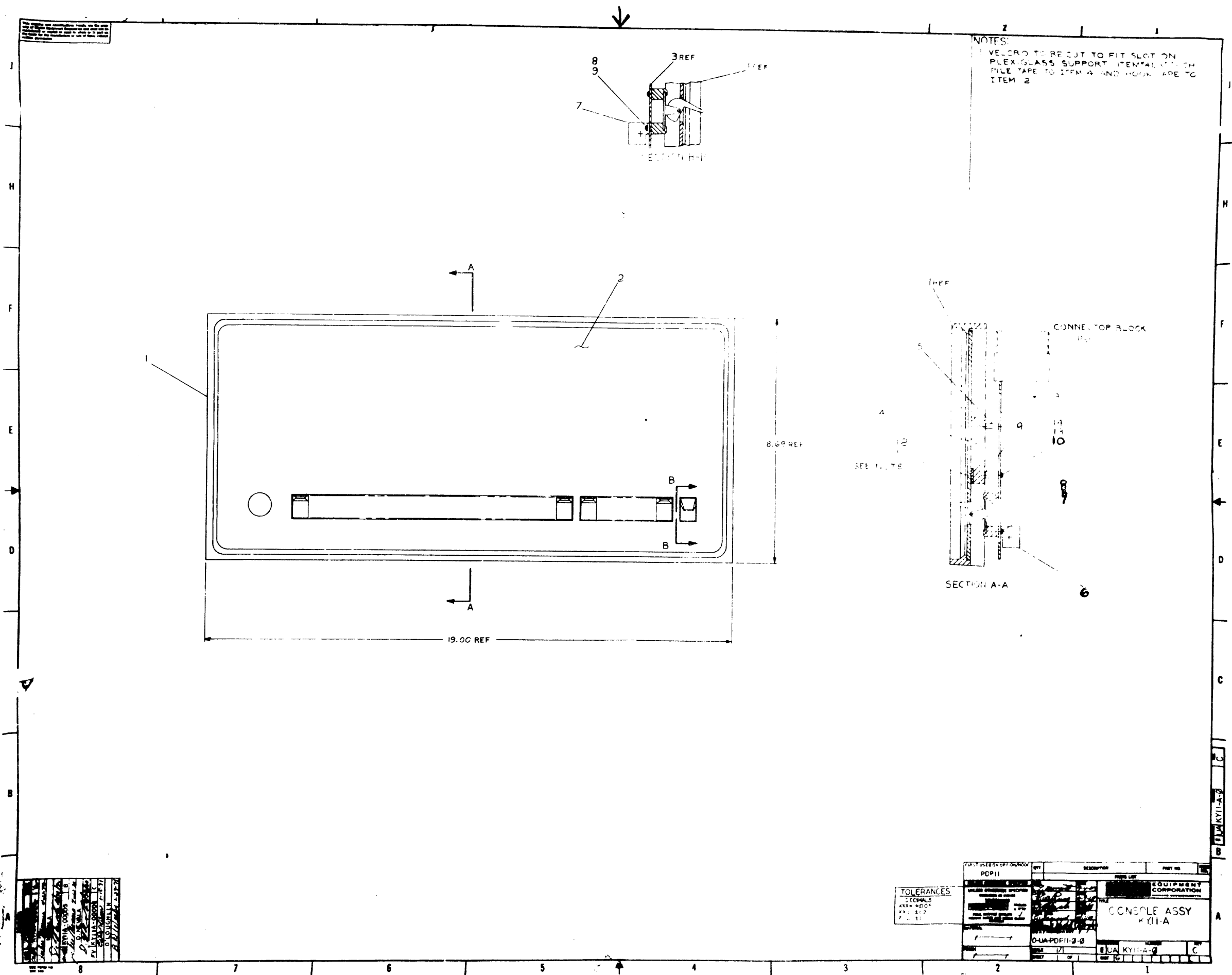
HK	CI	ENGINE NO	REV
228	H96C	00001	A
228		228 4-1-28	
	D	MEVALA	
		4/3/20	

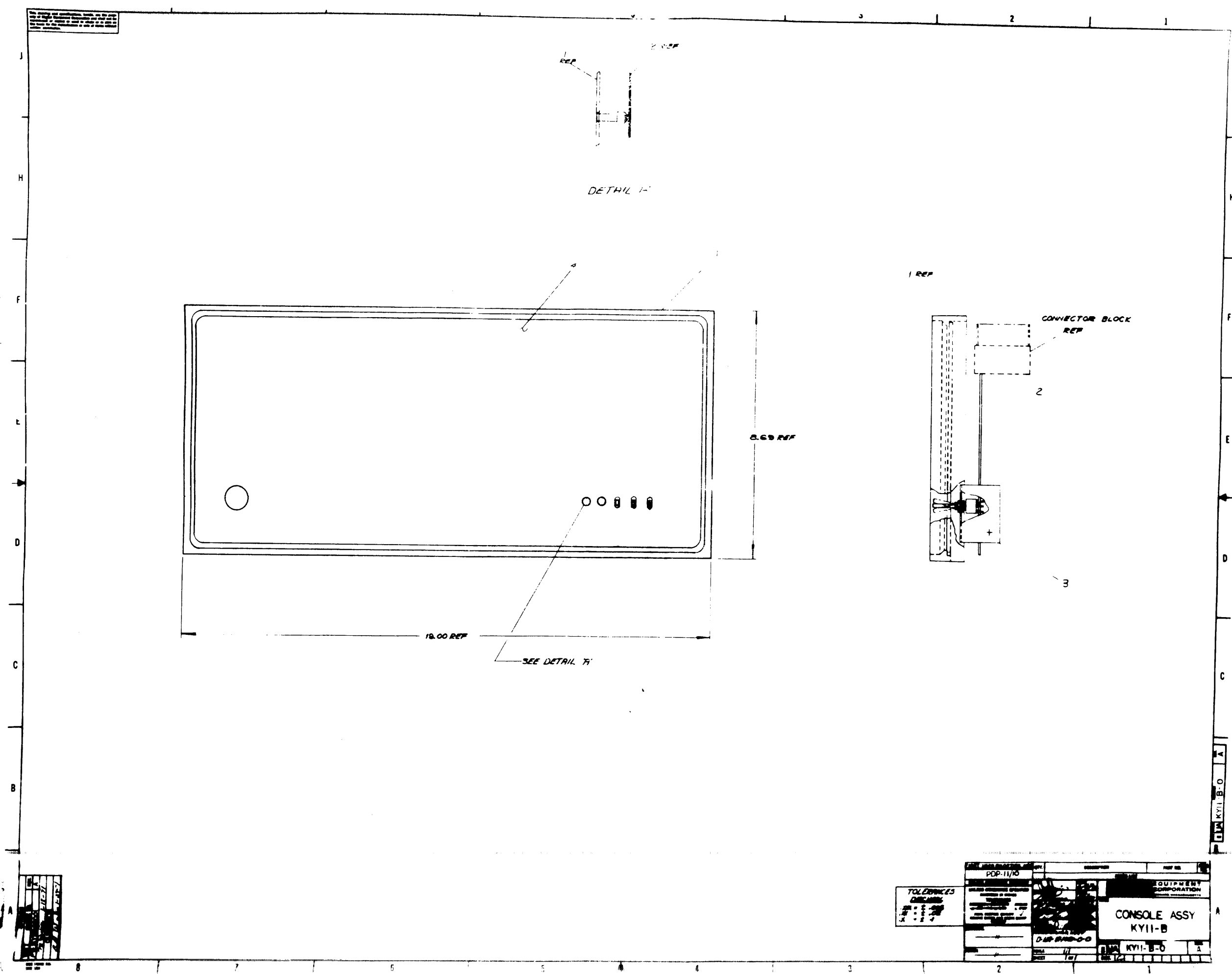


VIEW A-A
SCALE: NONE
VIEW SHOWN MINUS ITEMS 254

- NOTES:
1. FOR DWG INDEX LIST REFER TO D-DI-H950-CA-1
 2. FOR ASSEMBLY INSTRUCTIONS SEE DWG. D-OC-H950-0-0 & D-OC-H952-0-0.
 3. FOR INSTALLATION IN PUPIL SYSTEM REFER TO DWG D-UA-PDPII-20-0.

FIRST USED ON OPTION/MODEL	DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES ± .005 ± 1/64 ± 0°30' FINISH SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP11	MATERIAL	DWG. DATE CHK'D DATE ENG. DATE REV. ENG. DATE PROJ. DATE	7-17-81 7-29-81 7-29-81 7-29-81 7-29-81	PARTS LIST digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS TITLE CABINET ASSY (PDP11)	
FINISH	SIZE CODE NUMBER REV DUA H960-CA-0 A	SCALE NONE SHEET OF DIST.			





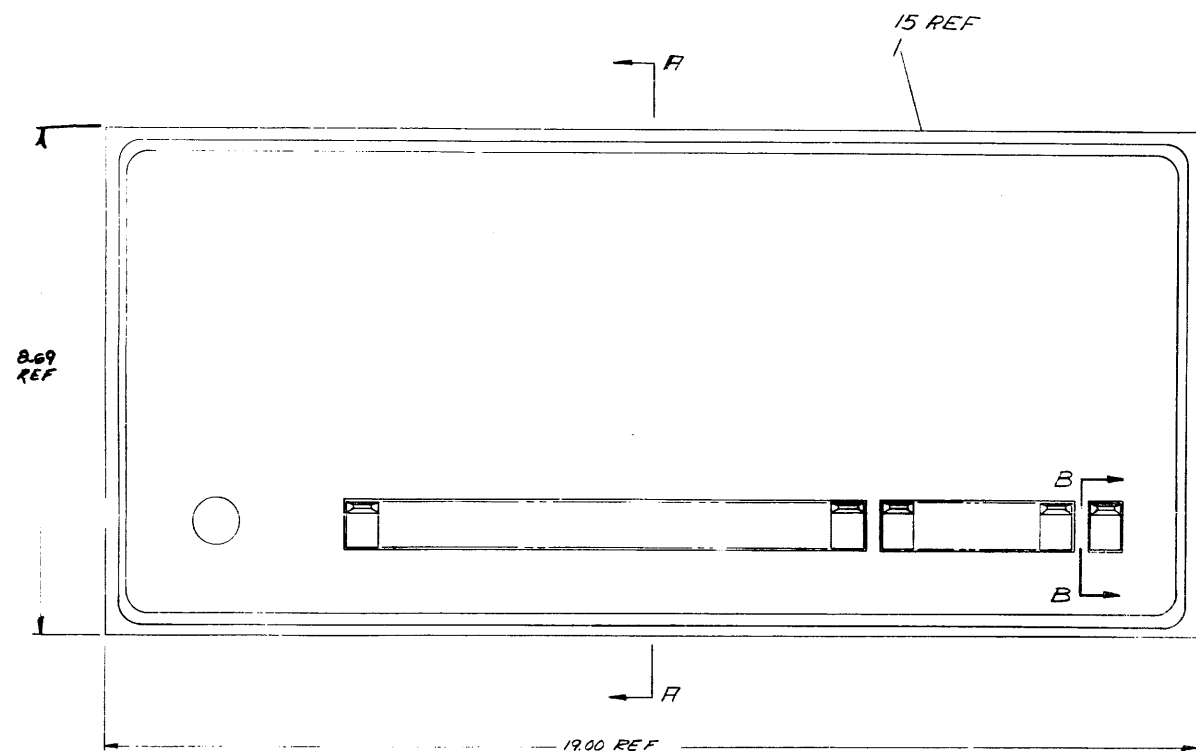
TOLERANCES DIMENSIONS FRACTIONS DECIMALS INCHES MILLIMETERS	POP-11/10		EQUIPMENT CORPORATION	
	CONSULE ASSY		KYII-B	
	KYII-B-0		A	
	1/1		1	

REVIEWS	
CHK	REV.
CHARGE NO.	
KTIC-00001	A

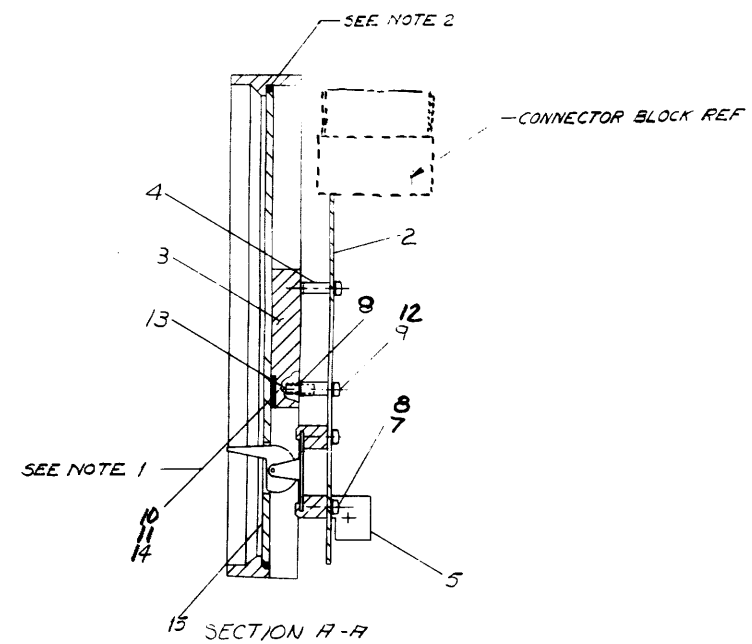
C DEWEY

Qm Dewey 6-8-71

DEC FORM NO.



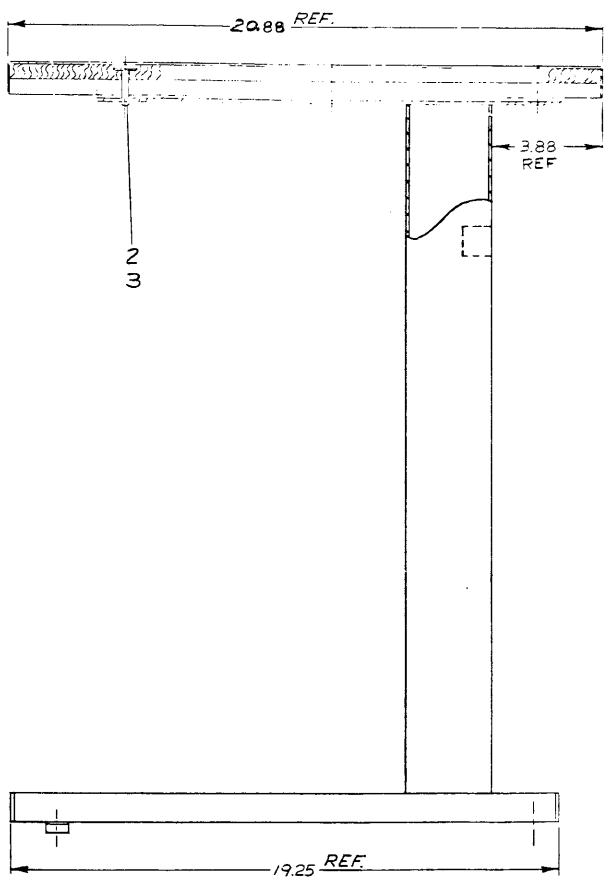
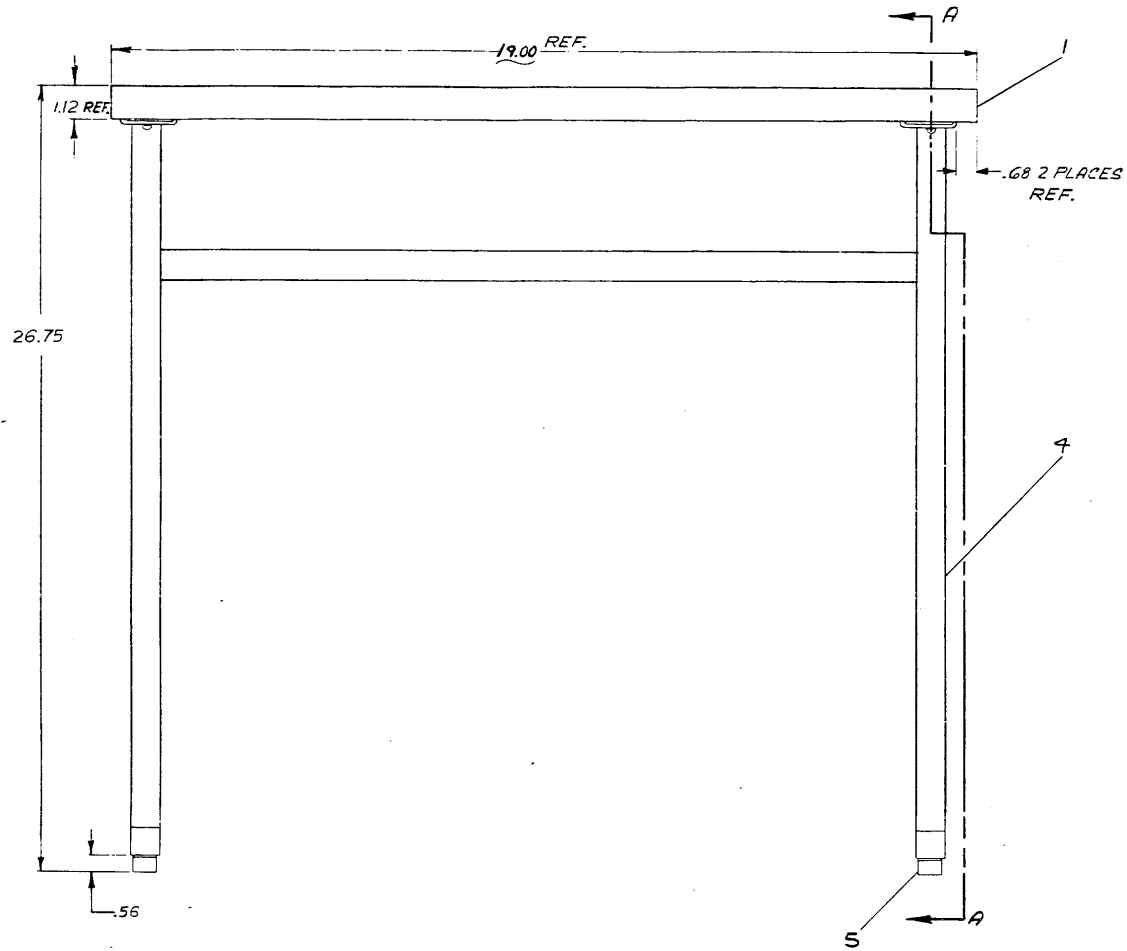
1. VELCRO TO BE CUT TO FIT SLOT ON PLATE/LEG²
SUPPORT (ITEM #3). ATTACH ONE TAPE TO (ITEM
#3) AND NOOE TAPE TO ITEM #1.
2. ADHESIVE BOND ITEM #3 TO ITEM #1 WITH SCOTCH #2216
B/A ADHESIVE & CURE 12 HOURS AT ROOM TEMPERATURE
WHILE ON FACE. BOND AREA TO BE AS SHOWN ALL AROUND.
3. NYLON WASHER (ITEM #16) MUST BE INSERTED
BEHIND BRACKET (ITEM #6) AND CONSOLE
BD ASSY (ITEM #2



PREPARED BY: <u>CDR/USN/USMC</u> <u>FDP/11/13</u>		QTY.	DESCRIPTION	PART NO.	UNIT
1. <u>CONSOLE ASSY</u>		<u>1</u>	<u>CONSOLE ASSY</u>	<u>11111</u>	<u>1</u>
2. <u>UNLESS OTHERWISE SPECIFIED</u>					
3. <u>QUANTITY IN STOCK</u>					
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301. <u>RECEIVED BY</u>					
302. <u>RECEIVED BY</u>					

Showing one specification, hence, the part of Table Equipment, Control Unit and other parts to be shown in detail in order to show in detail the parts for the manufacture of each of these without other dimensions.

J
H
F
E
D
C
B
A



SECTION A-A

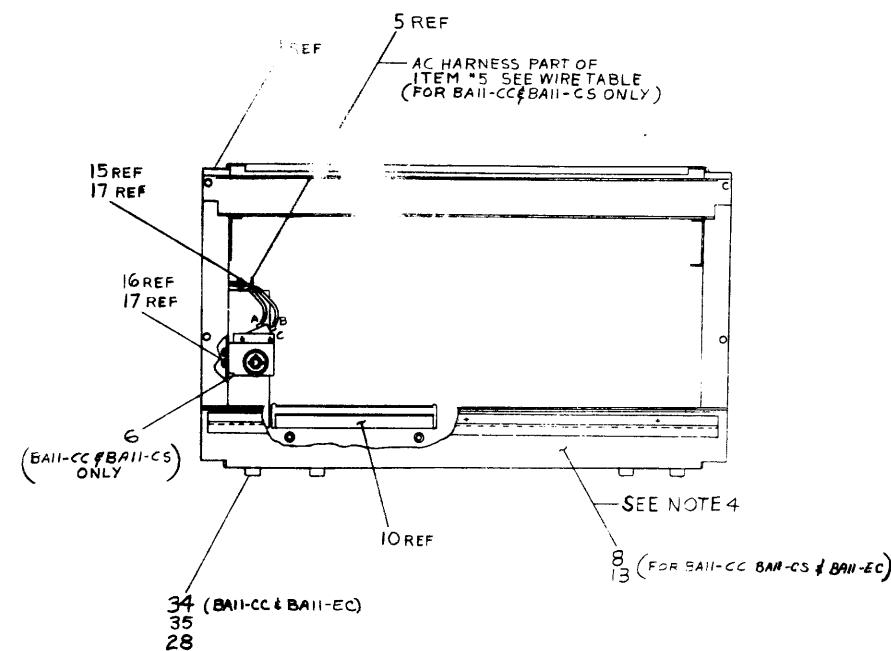
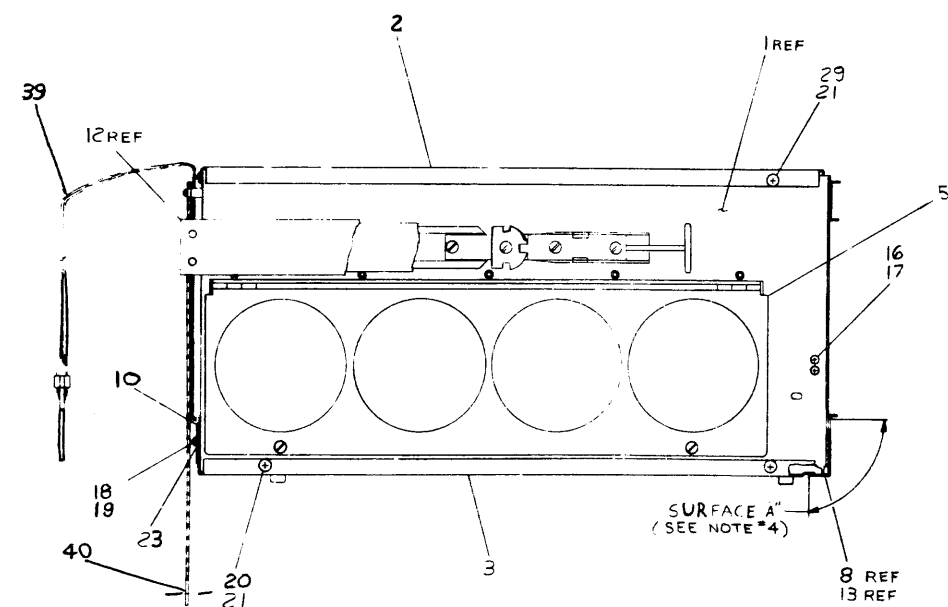
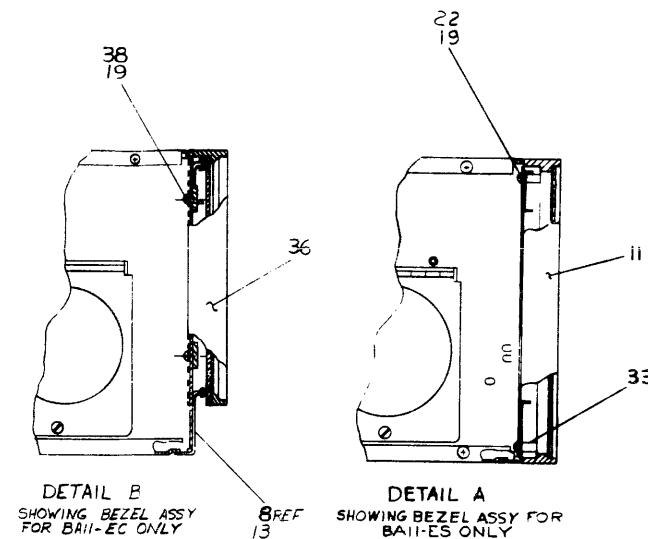
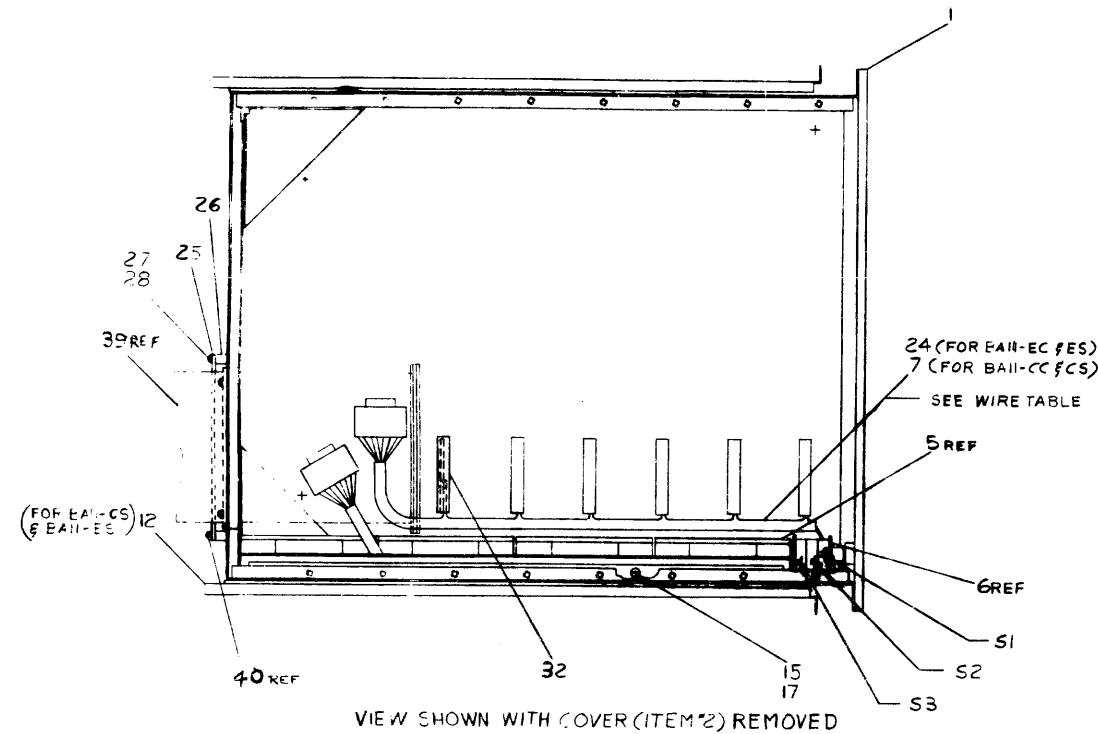
SECTION A-A
DRAWN BY
CHKD BY

TOLERANCES DECIMALS XXX = .005 XX = .010 X = .015		UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES FRACTIONS DECIMALS FINISH HATCH		PARTS LIST EQUIPMENT CORPORATION TABLE ASSY. EUA H952-HA 0	
DATE 1/2/52		BY J. H. HUGHES		REV. 1	

WIRE TABLE					
ITEM NO.	DESCRIPTION	FROM	TO	REMARKS	
1	RED	1	S1-B	SOLDER	
2	WHITE	2	S1-A		
3	RED	3	S2-A		
4	WHITE	4	S2-B		
5	BLUE	5	S3-B		
6	BLUE	6	S3-A	SOLDER	

NUMBER	VARIATION
BAIL-CC	TABLE MODEL (BASIC)
BAIL-CS	TABLE MODEL (BASIC)
BAIL-EC	TABLE MODEL (EXPANDER)
BAIL-ES	CABINET MODEL (EXPANDER)

- NOTES:
- 1 FOR Dwg INDEX LIST SEE D-L-BAIL-0-1.
 - 2 FOR BASIC CONFIGURATION Dwg SHOWING BAIL INSTALLED IN CAB REFER TO Dwg D-UA-11/20-0-0 & D-UA-11/10-0-0.
 - 3 FOR BREAKDOWN OF VARIATIONS SEE Dwg AND PARTS LIST.
 - 4 COVER SURFACE A AS INDICATED WITH ITEM 9 (COVER STRIP) ENTIRE WIDTH, USING ITEM 13 FOR BAIL-CC, CS & EC.
 - 5 APPLY TAPE ITEM 20 & 21 TO SMOOTH SIDE OF INLAY (ITEM 4) AROUND EDGES AS SHOWN THEN PLACE INLAY INTO BEZEL WITH TAPE SIDE DOWN PRESS DOWN AROUND EDGES TO IN-SURE GOOD BOND.
 - 6 FOR SUPER COVER (ITEM 4) INSTALLATION REFER TO Dwg D-AD-7006524-0-0.



REV	DATE	DESCRIPTION
1	11/10/60	INITIAL DESIGN
2	11/10/60	REVISED TO ADD BAIL-ES
3	11/10/60	REVISED TO ADD BAIL-CC
4	11/10/60	REVISED TO ADD BAIL-CS
5	11/10/60	REVISED TO ADD BAIL-EC

REV	DATE	DESCRIPTION
1	11/10/60	INITIAL DESIGN
2	11/10/60	REVISED TO ADD BAIL-ES
3	11/10/60	REVISED TO ADD BAIL-CC
4	11/10/60	REVISED TO ADD BAIL-CS
5	11/10/60	REVISED TO ADD BAIL-EC

MASTER DRAWING LIST	
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[illegible]

REVISIONS				DRN P. MARCOTTE CHK'D K. RUSSELL ENG W. C. Cline PROJ ENG C. B. Smith PROD. Fred Malt FIRST USED ON 11/20 SCALE $\frac{1}{4}$ SHEET 1 OF 1		DATE 2/18/70 DATE 2/19/70 DATE 2/19/70 DATE 2/19/70 DATE 2/19/70 DATE 2/19/70		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
REV.	DATE	CHG. NO.	APP'D.			TITLE		LT33-DC TELETYPE 120V 60HZ			
A	072770	00003	C.B.								

[illegible]

DEC FORM NO 16 1031
DRA 110

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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS																																												
ENGINEERING SPECIFICATION				DATE 4/23/68																																								
TITLE MODIFICATION PROCEDURE FOR TELETYPE MODEL 33ASR-TU OR TBP																																												
REVISIONS																																												
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE																																						
	The 33TBP and 33TU must be modified in the following manner: 1. Remove the WRU pawl from the function casting. It is the second pawl from the right of the casting. Ref: Vol. II - Sec: 574-122-700 page 6 2. Remove the blue lead from the 750Ω resistor post and reconnect it to the 1450Ω resistor post. Ref: Vol. I - Sec: 574-100-102 page 14 3. On the call control unit terminal strip the following wires are transferred: <table><tr><td>Color of wire</td><td>Remove From</td><td>Connect To</td></tr><tr><td>Brown/White</td><td>Term.3</td><td>Term.5</td></tr><tr><td>Blue/White</td><td>Term.4</td><td>Term.5</td></tr><tr><td>Purple</td><td>Term.8</td><td>Term.9</td></tr></table> Ref: Vol. I - Sec: 574-100-102 page 14 (fig.12) 4. The leads of DEC cable #5288-2 which have red crimp lugs are connected to the call box terminal strip as follows: <table><tr><td>Color of Wire</td><td>Term. No.</td></tr><tr><td>Grey/White</td><td>3</td></tr><tr><td>Red</td><td>4</td></tr><tr><td>Yellow/White</td><td>6</td></tr><tr><td>Black</td><td>7</td></tr></table> 5. Mount the 4195 reader control card on the left side of the call control unit. A bracket is provided for mounting and is located to the right of arrow pointing to "plate" near the on-off switch. Connect the wires on one end of reader control card to locations as follows: <table><tr><td>Color of Wire</td><td>Length of Wire</td><td>Origin</td><td>Connect To</td></tr><tr><td>Yellow/White</td><td>6" approx.</td><td>To sole-noid</td><td>L2 of on-off switch</td></tr><tr><td>Yellow/White</td><td>6" approx.</td><td>To reader switch</td><td>L1 of on-off switch</td></tr><tr><td>Yellow/White</td><td>2' approx.</td><td>---</td><td>Plug #4 of call control unit (3rd hole from</td></tr></table>						Color of wire	Remove From	Connect To	Brown/White	Term.3	Term.5	Blue/White	Term.4	Term.5	Purple	Term.8	Term.9	Color of Wire	Term. No.	Grey/White	3	Red	4	Yellow/White	6	Black	7	Color of Wire	Length of Wire	Origin	Connect To	Yellow/White	6" approx.	To sole-noid	L2 of on-off switch	Yellow/White	6" approx.	To reader switch	L1 of on-off switch	Yellow/White	2' approx.	---	Plug #4 of call control unit (3rd hole from
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Yellow/White	2' approx.	---	Plug #4 of call control unit (3rd hole from																																									

ENG	APPD	SIZE	CODE	NUMBER	REV
		A	SP	LT33-0-5	

DEC FORM NO.
DRA 107

SHEET 1 OF 2

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE MODIFICATION PROCEDURE FOR TELETYPE MODEL 33ASR-TU OR TBP			
Brown --- --- Plug #4 of call control unit (3rd hole from right) Ref: Sec: 574-100-102 page 14 (fig.12) 6. Connect two SP4B4 thyrectors to the on-off switch as follows: a. One thyrector from position 2 to position 1 of the on-off switch. b. The other thyrector from position 2 to position L2 of the on-off switch.			
		SIZE	CODE
		A	SP
		NUMBER	REV
		LT33-0-5	

DEC FORM NO
DRA 108

SHEET 2 OF 2

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE ALIGNMENT/TEST PROCEDURE FOR TELETYPE MODEL 33ASR-TY OR TU OR TBP			
Clearance between print hammer bail and print hammer trip lever This clearance must remain constant as carriage is manually moved to right margin.	.015	.030	
I. Print Suppression Latch			
1. Place carriage approximately 1/2 inch from left margin. Set (--3-5-78) code in selector. Rotate main shaft until drive bail reaches rearmost position. Take up print suppression latchlever play to the right. Clearance between print suppression latch and print hammer bail	.015	.030	
J. Reader			
1. Control lever in free position. Alter- nately hold and release armature to cycle sprocket and sensing pins through several positions. At each position: a. The sprocket pin shall be in line with sensing pins within	.002 max.		
b. Sprocket backlash shall not exceed	.001 max.		
2. Control Lever In Free Position.			
a. Armature in attached position. Clearance between top surface of top plate to tip of each sensing pin in fully extended positions			
b. Armature in unattracted position. Clearance between tip of each sensing pin below top surface of top plate	.015 max.		
3. Tape lid closed. Tape lid latch must be centrally located in cut out of tape lid. Clearance between top plate and latch spring			
	.005	.030	
4. Armature in unattracted position.			
a. Clearance between feed pawl and ratchet with fine teeth between feed pawl and detent lever	.001	.008	
b. Clearance between blocking pawl and ratchet tooth	.001	.010	
K. Tape Punch			
1. Check to insure punch driver arm assembly			

SIZE	CODE	NUMBER	REV
A	SP	LT33-0-6	

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE ALIGNMENT/TEST PROCEDURE FOR TELETYPE MODEL 33ASR-TY OR TU OR TBP			
is securely fastened to main rocker shaft.			
2. <u>Power on.</u> Manually rotate main shaft until function rocker shaft and stripper bail are in most forward positions. Take up rear roller play toward rear and tape nudger play in clockwise direction. Clearance between rear roller and highest point on tape nudger.			
	.070	.090	
3. Set all marking code in selector. Manually rotate main shaft until function rocker shaft and stripper bail are in rearmost position. There must be some clearance between rightmost sensing lever and its associated pawl.			
a. Clearance between left most sensing lever and its associated pawl			
	.005	.020	
b. Take up all play in stripper bail toward rear. Feed wheel in its fully detented position. Clearance between feed pawl and feed wheel ratchet tooth			
	.001	.005	
4. Position end of spring to lowest notch of arm with bushing. Perforate alternate R and hyphen codes in 8 inches of tape. Align #2 code hole of tape with first .072 hole on smooth side of guage TP156011. The four remaining .072 guage holes must be visable through corresponding #2 code holes in tape. The #2 code hole which corresponds with .86 guage hole must be entirely within the perimeter of that guage hole.			
TEST PROCEDURE			
Run the following tape using PDP8/S or PDP8/I processor: Combo Test - MAINDEC-08-D2TA			
(A) If failures occur run the following diagnostic pertaining to the particular area, that failed in the Combo Test, repair, re-run combo.			
Teleprinter Test		MAINDEC-08-D25A	
Binary Loader		DEC-8-2-U-RIM	
Punch Test		MAINDEC-08-D2QA	
Keyboard Test		MAINDEC-08-D2RA	
Reader Test		MAINDEC-08-D2PA	
(B) Unit is ready for shipment when Combo Test #MAINDEC-08-D2A			

SIZE	CODE	NUMBER	REV
A	SP	LT33-0-6	

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DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 4/23/68

TITLE ACCEPTANCE PROCEDURE FOR TELETYPE MODEL 33ASR-TU

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

SCOPE:

To define the criteria to accept a (ASR) model 33TU for shipment.

TEST HARDWARE:

PDP8

TEST SOFTWARE:

Engineering specifications	A-SP-LT33-0-3
Diagnostic program	MAINDEC-08-D2TA - Combo Test
	MAINDEC-08-D2PA - Reader Test
	MAINDEC-08-D2SA - Printer Test
	MAINDEC-08-D2QA - Punch Test
	MAINDEC-08-D2FA - Keyboard Test

PROCEDURE:

Run the diagnostic MAINDEC-08-D2TA. The unit is accepted for shipment to a customer when this diagnostic program has been run for one complete pass without error typeouts. Quality control inspection form to be filled out before shipment.

SHIPPING SOFTWARE:

Diagnostic program	MAINDEC-08-D2RA
	MAINDEC-08-D2QA
	MAINDEC-08-D2SA
	MAINDEC-08-D2TA
	MAINDEC-08-D2PA

Maintenance manual volume I and II
Parts manual

SHIPPING HARDWARE:

#5288-2 cable - 12 feet

ENG <i>[Signature]</i>	APPD	SIZE A	CODE SP	NUMBER LT33-0-8	REV
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DEC FORM NO.
DRA 107

SHEET 1 OF 1

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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION					DATE 5/3/68	
TITLE PACKING PROCEDURE FOR TELETYPE MODEL 33ASR-TY OR TU OR TBP						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
	1. Put reader clip in holder; reader pins in upward position as originally received. 2. Use one tie wrap to hold carriage at left margin. 3. Mount printer unit to fiberboard platform with the eight (8) mounting screws and three (3) studs, originally provided. 4. Put chad box and reader power pack as well as copy holder in the box provided. 5. Fifty (50) cycle teletypes should have transformer (previously mounted) left in base stand. 6. The four (4) mounting screws that mount the printer to the base stand should be put in a bag along with the on/off knob and the platen knob and then tied to the base stand. 7. Teletype AC cable and 5288-2 cable should be placed on the plastic cover where paper roll normally goes and wrapped in kim pack. 8. Tape down printer cover, punch paper-roller, printer paper-roller and cables of item 7 above. Additional tape should be used to secure whole cover to base. 9. Make sure that there are three (3) thumbscrews that hold teletype cover on, and four (4) screws in the front of the machine, also a screw in reader cover and one (1) face-plate for each machine.					
ENG	APPD	SIZE	CODE	NUMBER	REV	
		A	SP	LT33-0-10		

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DIGITAL EQUIPMENT CORPORATION						
MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION					DATE 5/3/68	
TITLE INSTALLATION PROCEDURE FOR TELETYPE MODEL 33ASR-TY OR TT OR TBP						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
	1. Remove all tape holding covers and cables.					
	2. Remove the whole cover and in the reader, remove clip which holds reader pins in an upward position before turning machine <u>on</u> .					
	3. Mount power supply for reader on basic stand and plug connector cable in.					
	4. Remove <u>tie wrap</u> being used to hold carriage at left hand margin.					
	5. Mount base to bottom of unit with screws provided.					
	6. Replace cover being sure that three (3) thumbscrews, four (4) ponhead screws and one (1) special screw (for reader) are correctly installed before attaching face plate and knobs.					
ENG	APPD	SIZE	CODE	NUMBER	REV	
		A	SP	LE33-0-11		

ACCESSORY LIST

DATE 7/28/65

DATE 7/28/85

1

READ-IN-MODE

BY DATE

ROLL TTY RIBBON

ECO NO	
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DEC FORM NO.
DRA 121

X

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DEC FORM NO 16 1031
DRA 110

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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS																																												
ENGINEERING SPECIFICATION				DATE 4/23/68																																								
TITLE MODIFICATION PROCEDURE FOR TELETYPE MODEL 33ASR-TU OR TBP																																												
REVISIONS																																												
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE																																						
	The 33TBP and 33TU must be modified in the following manner: 1. Remove the WRU pawl from the function casting. It is the second pawl from the right of the casting. Ref: Vol. II - Sec: 574-122-700 page 6 2. Remove the blue lead from the 750Ω resistor post and reconnect it to the 1450Ω resistor post. Ref: Vol. I - Sec: 574-100-102 page 14 3. On the call control unit terminal strip the following wires are transferred: <table><tr><td>Color of wire</td><td>Remove From</td><td>Connect To</td></tr><tr><td>Brown/White</td><td>Term.3</td><td>Term.5</td></tr><tr><td>Blue/White</td><td>Term.4</td><td>Term.5</td></tr><tr><td>Purple</td><td>Term.8</td><td>Term.9</td></tr></table> Ref: Vol. I - Sec: 574-100-102 page 14 (fig.12) 4. The leads of DEC cable #5288-2 which have red crimp lugs are connected to the call box terminal strip as follows: <table><tr><td>Color of Wire</td><td>Term. No.</td></tr><tr><td>Grey/White</td><td>3</td></tr><tr><td>Red</td><td>4</td></tr><tr><td>Yellow/White</td><td>6</td></tr><tr><td>Black</td><td>7</td></tr></table> 5. Mount the 4195 reader control card on the left side of the call control unit. A bracket is provided for mounting and is located to the right of arrow pointing to "plate" near the on-off switch. Connect the wires on one end of reader control card to locations as follows: <table><tr><td>Color of Wire</td><td>Length of Wire</td><td>Origin</td><td>Connect To</td></tr><tr><td>Yellow/White</td><td>6" approx.</td><td>To sole-noid</td><td>L2 of on-off switch</td></tr><tr><td>Yellow/White</td><td>6" approx.</td><td>To reader switch</td><td>L1 of on-off switch</td></tr><tr><td>Yellow/White</td><td>2' approx.</td><td>---</td><td>Plug #4 of call control unit (3rd hole from right)</td></tr></table>						Color of wire	Remove From	Connect To	Brown/White	Term.3	Term.5	Blue/White	Term.4	Term.5	Purple	Term.8	Term.9	Color of Wire	Term. No.	Grey/White	3	Red	4	Yellow/White	6	Black	7	Color of Wire	Length of Wire	Origin	Connect To	Yellow/White	6" approx.	To sole-noid	L2 of on-off switch	Yellow/White	6" approx.	To reader switch	L1 of on-off switch	Yellow/White	2' approx.	---	Plug #4 of call control unit (3rd hole from right)
Color of wire	Remove From	Connect To																																										
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Yellow/White	6" approx.	To reader switch	L1 of on-off switch																																									
Yellow/White	2' approx.	---	Plug #4 of call control unit (3rd hole from right)																																									

ENG	APPD	SIZE	CODE	NUMBER	REV
		A	SP	LT33-0-5	

ENGINEERING SPECIFICATION				CONTINUATION SHEET	
TITLE MODIFICATION PROCEDURE FOR TELETYPE MODEL 33ASR-TU OR TBP					
Brown --- --- Plug #4 of call control unit (3rd hole from right) Ref: Sec: 574-100-102 page 14 (fig.12) 6. Connect two SP4B4 thyrectors to the on-off switch as follows: a. One thyrector from position 2 to position 1 of the on-off switch. b. The other thyrector from position 2 to position L2 of the on-off switch.					

SIZE	CODE	NUMBER	REV
A	SP	LT33-0-5	

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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION				DATE 4/23/68		
TITLE ALIGNMENT/TEST PROCEDURE FOR TELETYPE MODEL 33ASR-TY OR TU OR TBP						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
	TELETYPE ALIGNMENT PROCEDURE:					
	A. Carefully check for damaged or obviously misaligned components. Note: In the following sections, power is off unless noted.					
	B. Main Shaft					
	1. Clearance between slotted bronze bearing and collar				.005 .015	
	C. Distributor Clutch					
	1. Endplay between left bearing and clutch gear assembly				.002 .008	
	2. Clearance between brush holder and disc at closest point				.025 .025	
	3. Clearance between shoe lever and stop lug with clutch disengaged and keyboard universal lever in down position					.015 min.
	4. Increase in clearance recorded in step #3 after clutch has been engaged				.050 .080	
	5. Disengage clutch and depress any non-function key. Clearance between clutch shoe lever and trip lever with upper edge of clutch lever in line with upper edge of trip lever				.015 .035	
	6. <u>Power on</u> and keyboard universal lever in latched position. Clearance of clutch shoe lever beyond rear most surface of trip lever				.000 .015	
	D. Selector Clutch					
	1. Disengage clutch. Endplay between clutch and side plate				.002 .008	
ENG	APPD	SIZE A	CODE SP	NUMBER LT33-0-6	REV	

ENGINEERING SPECIFICATION				CONTINUATION SHEET		
TITLE ALIGNMENT/TEST PROCEDURE FOR TELETYPE MODEL 33ASR-TY OR TU OR TBP						
2. Disengage clutch. Trip lever shall engage shoe lever by approximately the full thickness of shoe lever.						
3. Disengage clutch lift trip lever to trip clutch, permit trip lever to rest on shoe lever. Edge of shoe lever shall sit in center of slot in trip lever						
E. Codebar Clutch .002						
1. Disengage clutch. Endplay at maximum .008 .002						
2. Endplay in latchlevers .012						
3. Typing unit in stop condition. Trip lever shall engage shoe lever by approximately the full thickness of shoe lever						
4. Disengage clutch lift trip lever to trip clutch, permit trip lever to rest on shoe lever. Edge of shoe lever shall sit in slot in trip lever.						
F. Function Clutch						
1. Disengage clutch. Endplay between clutch and collar at maximum .002 .008						
2. Typing unit in stop condition. Trip lever shall engage shoe lever by approximately the full thickness of shoe lever.						
3. Disengage clutch. Lift trip lever to trip clutch, permit trip lever to rest on shoe lever. Edge of shoe lever shall sit in center of slot in trip lever.						
G. Rear Rail						
1. <u>Power on</u> . Perform carriage return. <u>Power off</u> . Release codebar clutch. Rotate main shaft until codebars are fully raised. Observe small portion of #1 codebar slide below right guide plate. Move carriage to right margin. Protruding portion of codebar must remain constant throughout carriage traverse.						
H. Drive Bail						
1. <u>Power on</u> . Perform carriage return. <u>Power off</u> . Release codebar clutch. Rotate main shaft until carriage drive bail reaches its rearmost position.						
				SIZE A	CODE SP	NUMBER LT33-0-6
				REV		

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE ALIGNMENT/TEST PROCEDURE FOR TELETYPE MODEL 33ASR-TY OR TU OR TBP			
Clearance between print hammer bail and print hammer trip lever		.015 .030	
This clearance must remain constant as carriage is manually moved to right margin.			
I. Print Suppression Latch			
1. Place carriage approximately 1/2 inch from left margin. Set (--3-5-78) code in selector. Rotate main shaft until drive bail reaches rearmost position. Take up print suppression latchlever play to the right. Clearance between print suppression latch and print hammer bail		.015 .030	
J. Reader			
1. Control lever in free position. Alternately hold and release armature to cycle sprocket and sensing pins through several positions. At each position:			
a. The sprocket pin shall be in line with sensing pins within		.002 max.	
b. Sprocket backlash shall not exceed		.001 max.	
2. Control Lever In Free Position.			
a. Armature in attached position. Clearance between top surface of top plate to tip of each sensing pin in fully extended positions			
b. Armature in unattracted position. Clearance between tip of each sensing pin below top surface of top plate		.015 max.	
3. Tape lid closed. Tape lid latch must be centrally located in cut out of tape lid. Clearance between top plate and latch spring		.005 .030	
4. Armature in unattracted position.			
a. Clearance between feed pawl and rachet with fine teeth between feed pawl and detent lever		.001 .008	
b. Clearance between blocking pawl and rachet tooth		.001 .010	
K. Tape Punch			
1. Check to insure punch driver arm assembly			
SIZE	CODE	NUMBER	REV
A	SP	LT33-0-6	

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE ALIGNMENT/TEST PROCEDURE FOR TELETYPE MODEL 33ASR-TY OR TU OR TBP			
is securely fastened to main rocker shaft.			
2. Power on. Manually rotate main shaft until function rocker shaft and stripper bail are in most forward positions. Take up rear roller play toward rear and tape nudger play in clockwise direction. Clearance between rear roller and highest point on tape nudger.		.070 .090	
3. Set all marking code in selector. Manually rotate main shaft until function rocker shaft and stripper bail are in rearmost position. There must be some clearance between rightmost sensing lever and its associated pawl.			
a. Clearance between left most sensing lever and its associated pawl		.005 .020	
b. Take up all play in stripper bail toward rear. Feed wheel in its fully detented position. Clearance between feed pawl and feed wheel ratchet tooth		.001 .005	
4. Position end of spring to lowest notch of arm with bushing. Perforate alternate R and hyphen codes in 8 inches of tape. Align #2 code hole of tape with first .072 hole on smooth side of guage TP156011. The four remaining .072 guage holes must be visable through corresponding #2 code holes in tape. The #2 code hole which corresponds with .86 guage hole must be entirely within the perimeter of that guage hole.			
TEST PROCEDURE			
Run the following tape using PDP8/S or PDP8/I processor: Combo Test - MAINDEC-08-D2TA			
(A) If failures occur run the following diagnostic pertaining to the particular area, that failed in the Combo Test, repair, re-run combo.			
Teleprinter Test		MAINDEC-08-D25A	
Binary Loader		DEC-8-2-U-RIM	
Punch Test		MAINDEC-08-D2QA	
Keyboard Test		MAINDEC-08-D2RA	
Reader Test		MAINDEC-08-D2PA	
(B) Unit is ready for shipment when Combo Test #MAINDEC-08-D2A			
SIZE	CODE	NUMBER	REV
A	SP	LT33-0-6	

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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION					DATE 4/23/68	
TITLE ACCEPTANCE PROCEDURE FOR TELETYPE MODEL 33ASR-TU						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
	SCOPE: To define the criteria to accept a (ASR) model 33TU for shipment. TEST HARDWARE: PDP8 TEST SOFTWARE: Engineering specifications A-SP-LT33-0-3 Diagnostic program MAINDEC-08-D2TA - Combo Test MAINDEC-08-D2PA - Reader Test MAINDEC-08-D2SA - Printer Test MAINDEC-08-D2QA - Punch Test MAINDEC-08-D2FA - Keyboard Test PROCEDURE: Run the diagnostic MAINDEC-08-D2TA. The unit is accepted for shipment to a customer when this diagnostic program has been run for one complete pass without error typeouts. Quality control inspection form to be filled out before shipment. SHIPPING SOFTWARE: Diagnostic program MAINDEC-08-D2RA MAINDEC-08-D2QA MAINDEC-08-D2SA MAINDEC-08-D2TA MAINDEC-08-D2PA Maintenance manual volume I and II Parts manual SHIPPING HARDWARE: #5288-2 cable - 12 feet					
ENG	APPD	SIZE	CODE	NUMBER	REV	
		A	SP	LT33-0-8		

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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION					DATE 5/3/68	
TITLE PACKING PROCEDURE FOR TELETYPE MODEL 33ASR-TY OR TU OR TBP						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
	1. Put reader clip in holder; reader pins in upward position as originally received. 2. Use one tie wrap to hold carriage at left margin. 3. Mount printer unit to fiberboard platform with the eight (8) mounting screws and three (3) studs, originally provided. 4. Put chad box and reader power pack as well as copy holder in the box provided. 5. Fifty (50) cycle teletypes should have transformer (previously mounted) left in base stand. 6. The four (4) mounting screws that mount the printer to the base stand should be put in a bag along with the on/off knob and the platen knob and then tied to the base stand. 7. Teletype AC cable and 5288-2 cable should be placed on the plastic cover where paper roll normally goes and wrapped in kim pack. 8. Tape down printer cover, punch paper-roller, printer paper-roller and cables of item 7 above. Additional tape should be used to secure whole cover to base. 9. Make sure that there are three (3) thumbscrews that hold teletype cover on, and four (4) screws in the front of the machine, also a screw in reader cover and one (1) face-plate for each machine.					
ENG	APPD	SIZE	CODE	NUMBER	REV	
		A	SP	LT33-0-10		

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DIGITAL EQUIPMENT CORPORATION						
MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION					DATE 5/3/68	
TITLE INSTALLATION PROCEDURE FOR TELETYPE MODEL 33ASR-TY OR WT OR TBP						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
	1. Remove all tape holding covers and cables.					
	2. Remove the whole cover and in the reader, remove clip which holds reader pins in an upward position before turning machine <u>on</u> .					
	3. Mount power supply for reader on basic stand and plug connector cable in.					
	4. Remove <u>tie wrap</u> being used to hold carriage at left hand margin.					
	5. Mount base to bottom of unit with screws provided.					
	6. Replace cover being sure that three (3) thumbscrews, four (4) ponhead screws and one (1) special screw (for reader) are correctly installed before attaching face plate and knobs.					
ENG	APPD	SIZE	CODE	NUMBER	REV	
		A	SP	LT33-0-11		

ACCESSORY LIST

SECTION	1
ISSUED SECT.	1

QUANTITY / VARIATION

[illegible]

DIST.

X