

DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

DRAWING DIRECTORY (DD11-P)	B-DD-DD11-P
PACK PLANE ASSY (DD11PK)	C-AD-7011523-0-0
BACK PLANE ASSY (DD11PF)	C-AD-7012307-0-0
MODULE UTILIZATION (DD11-P)	D-MU-DD11-P-2
POWER HARNESS (BA11-K, BA11-L)	D-IA-7011108-0-0
POWER HARNESS (BA11-F, BA11-P)	D-IA-7011109-0-0
CIRCUIT SCHEMATIC (DD11-P)	D-CS-5411660-0-1
WIRE LIST (COMPLETE)	K-WL-DD11-P-1

SEQUENCE

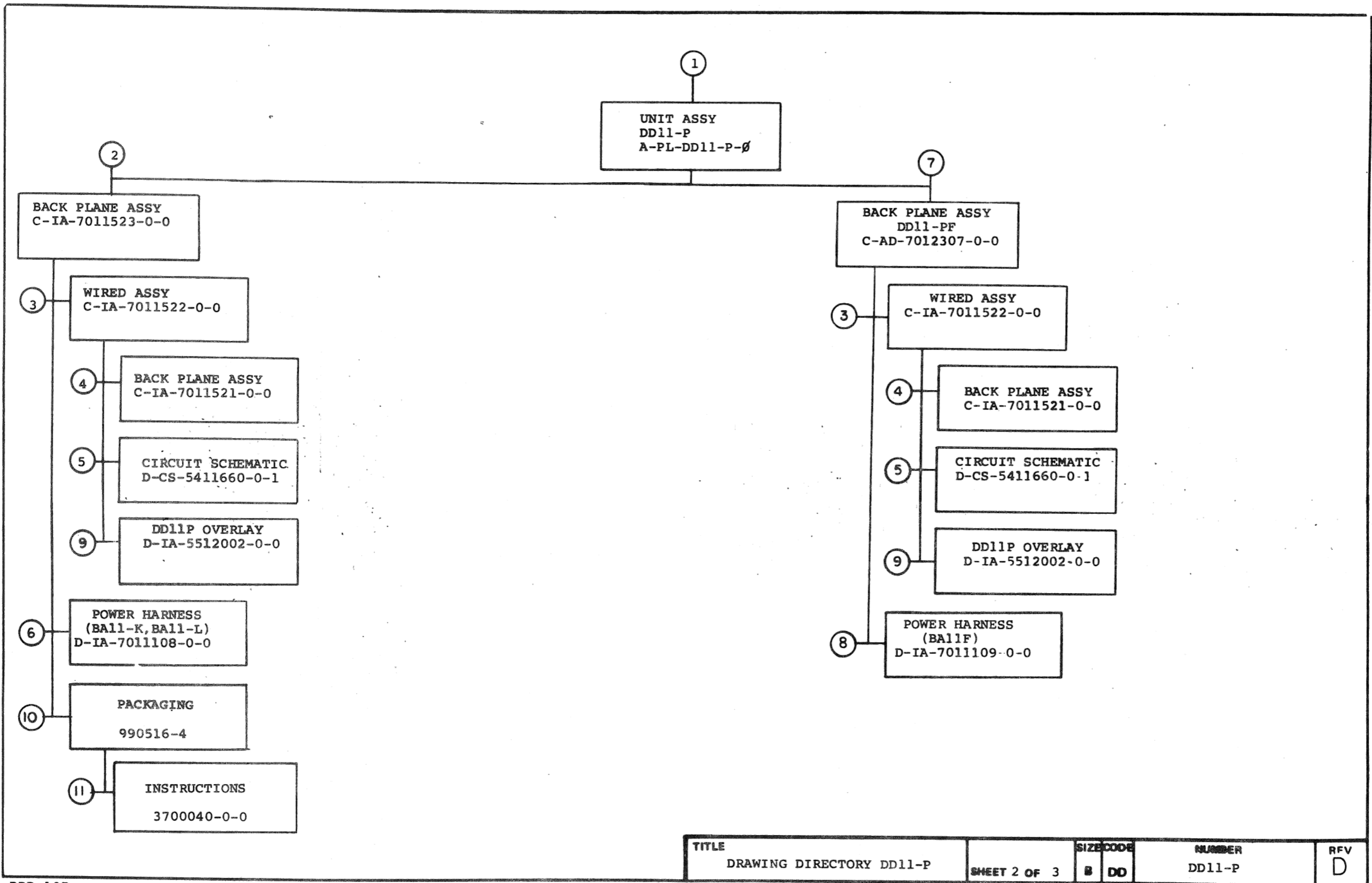
UNIT VARIATIONS		PRINT SET	
VAR	TITLE	1	
DD11-PK	BACK PLANE ASSY (BA11-L, BA11-K)	X	
DD11-PF	BACK PLANE ASSY (BA11-F, BA11-P)	X	

NOTE: DD11PK ASSEMBLIES ARE ELECTRICALLY INCOMPATIBLE WITH DD11PF ASSEMBLIES. A DD11PK WILL WORK IN BA11-L AND BA11-K BOXES ONLY. A DD11PF WILL WORK IN BA11-F AND BA11-P BOXES ONLY

REVISIONS	
DATE	CHG. NO.
2-76	DD11P-2 A
2-3-76	R. Barry
9-76	DD11P-3 B
12-76	DD11P-4 C
2-77	DD11P-5 D

USED ON OPTION/MODEL	DRN.	DATE	TITLE	SIZE	CODE	NUMBER	REV
	D. HEALY	6/19/75	DRAWING DIRECTORY DD11-P	B	BD	DD11-P	D
	CHK'D. <i>W. Hoag</i>	6/30/75					
	PROJ. ENG. <i>R Barry</i>	7-2-75					
	PROD. <i>R Kitson</i>	7/2/75					
	FIELD SERV.	7-3-75					
SHEET 1 OF 3				DIST			

DEC 16-1981-1062-1A-R572



TITLE	SIZE CODE	NUMBER	RFV
DRAWING DIRECTORY DD11-P	B DD	DD11-P	D
SHEET 2 OF 3			

CUSTOMER PRINT SET		ELECTRICAL					CUSTOMER PRINT SET		MECHANICAL							
1	1	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE	1	1	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE							
X	1	1	A-PL-DD11-P-0 D-MU-DD11-P-2	1 1	UNIT ASSY DD11-P MODULE UTILIZATION			1	A-PL-DD11-P-0	1	UNIT ASSY DD11-P					
X	2	1	C-IA-7011523-0-0	1	BACK PLANE ASSY DD11-PK			2	C-IA-7011523-0-0	1	BACK PLANE ASSY DD11-PK					
X	3	1	C-IA-7011522-0-0 K-WL-DD11-P-1 A-WT-7011522-0	1 1 1	WIRED ASSY WIRE LIST AWT REV STATUS			3	C-IA-7011522-0-0 B-DC-5308753-0-0 A-DC-7411881-0-0	1 1 1	WIRED ASSY DECAL 21 POINT (LTR) LABEL, AWT REV STATUS					
X	5	1	D-CS-5411660-0-1	1	CIRCUIT SCHEMATIC			4	D-IA-7011521-0-0	1	BACK PLANE ASSY					
X	6	1	D-IA-7011108-0-0	1	POWER HARNESS (BALL-K, BALL-L)			5	D-CS-5411660-0-1 D-AH-5411660-0-4 K-CO-5411660-0-5 B-MH-5411660-0-6 5011659		CIRCUIT SCHEMATIC ASSY/DRILLING HOLE LAYOUT X-Y COORDINATE HOLE LOCATION MODULE ECO HISTORY ETCH CIRCUIT BOARD					
X	7	1	C-AD-7012307-0-0	1	BACK PLANE ASSY DD11-PF			6	D-IA-7011108-0-0	1	POWER HARNESS (BALL-K, BALL-L)					
X	8	1	D-IA-7011109-0-0	1	POWER HARNESS (BALL-F, BALL-P)			7	C-AD-7012307-0-0	1	BACKPLANE ASSY DD11-PF					
								8	D-IA-7011109-0-0	1	POWER HARNESS (BALL-F, BALL-P)					
								9	D-IA-5512002-0-0	1	OVERLAY, WIRING					
								10	990516		PACKAGING					
								11	3700040-0-0		PACKAGING INSTRUCTIONS					
CUSTOMER PRINT SET CODES		X = PRINT OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED					TITLE		DRAWING DIRECTORY DD11-P		SIZE CODE		NUMBER		REV	
									SHEET 3 OF 3		B DD		DD11-P		D	

DRB 108

D C 1 3251-1062-28-R972

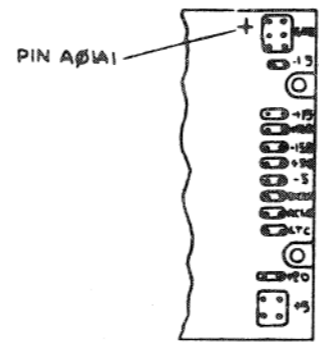
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WIRE TABLE

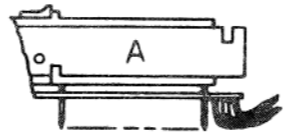
FROM			TO		FROM			TO	
COLOR	POINT	CONNECTION	SIGNAL	COLOR	POINT	CONNECTION	SIGNAL	COLOR	POINT
BLUE	P4-13	SOLDER	-15V	BRN	P2-14	SOLDER	-5V		
RED	P4-4		+5V	BLK	P2-8		GND		
RED	P4-1		+5V	GRAY	P2-2		+15		
BLK	P4-8		GND	ORG	P2-3		+20		
ORG	P4-3		+20V	BLK	P2-9		GND		
BLK	P4-9		GND	RED	P2-12	SOLDER	+5B		
WHT	P4-6		+15B	ITEM5	ITEM6	SOLDER	GND		
GRN	P4-15		-15B						
YEL	P3-4		ACLO						
BLK	P3-1		GND						
BRN	P3-2		LTC						
VIO	P3-3		DCLO						
RED	P2-4		+5V						
RED	P2-1	SOLDER	+5V						

NOTES:

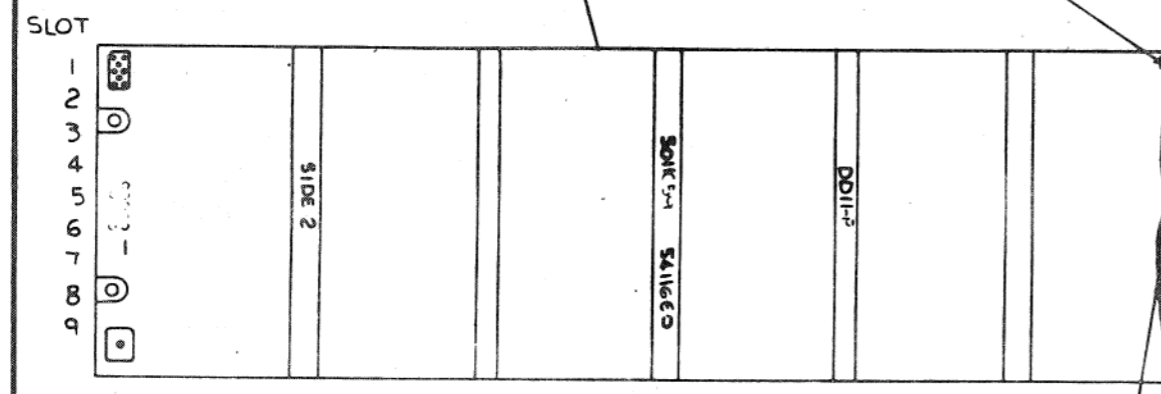
- WHEN THE DD11-PK'S USED WITH A BAI1-K EXPANSION BOX WITHOUT BATTERY BACK UP, (I.E., NO 765 OR 7650) INSTALL THE THREE JUMPERS SHOWN:
 A) -15 TO -15B
 B) +15 TO +15B
 C) +5 TO +5B (SEE NOTE 3)
 USE #22 SHIELD BUS WIRE ON SIDE 2. THIS WILL PROVIDE POWER TO THE MOS MEMORY VOLTAGE RAILS.
- INSTALL ITEM #6 UNDER LOGIC FRAME MOUNTING SCREW TO TIE LOGIC GROUND TO CHASSIS GROUND.
- BA11-K'S THAT USE THE 5410864-YA-1 POWER DISTRIBUTION (I.E., 11/34A, 11/34 WITH FP11-AU, AND SOME 11/04'S) AND HAVE MORE THAN ONE DD11-DK (OR AN ADDITIONAL DD11-CK) CAN ONLY HAVE THE +5 TO +5B JUMPER IN ONE OF THE BACK PANELS. IF TWO OF THE BACK PANELS HAVE THE JUMPER IN, THE +5V REGULATORS MAY BE CONNECTED TOGETHER. TYPICALLY THIS JUMPER IS IN THE FIRST BACK PANEL, BUT IT MAY BE PLACED IN ONE OF THE OTHER BACK PANELS IF DEEMED NECESSARY FOR POWER REQUIREMENTS.



VIEW A



SEE VIEW A



A/R	DESCRIPTION	QTY.	PART NO.	ITEM NO.
	COMPRESS-O-CARTON		9905016-4	8
	PACKAGING INSTRUCTIONS		3700040-0-0	7
1	TERMINAL, SOLDER		9008150	6
2	WIRE, BLK, STRD #14		9107370-00	5
6	TUBING #22 (BLUE)		9107256-06	4
6	WIRE BUS #22		9107560-01	3
1	POWER HARNESS (BA11-K, BAI1-K)		D-IA-701108-0-0	2
1	WIRED ASSY DD11-P		C-IA-7011522-0-0	1

FIRST USED ON OPTION/MODEL		QTY.		DESCRIPTION		PART NO.		ITEM NO.	
DD11-P									
DIMENSIONAL TOLERANCE		DRN		DATE					
DIMENSIONS ARE UNLESS OTHERWISE SPECIFIED		DATE		DATE					
		DATE		DATE					
MATERIAL SEE PARTS LIST		FINISH		SCALE		SIZE CODE		NUMBER	
						C IA		7011523-0-0	
						DIST.		REV. D	

REV.	CHANGE NO.	DATE	BY
A	7011523-00001		R. BARRY
B	7011523-00002	15 OCT 75	R. BARRY
C	7011523-00005	17 FEB 76	R. BARRY
D	7011523-00002	17 FEB 77	R. BARRY
			R. BARRY
			R. BARRY
			R. BARRY
			R. BARRY
			R. BARRY
			R. BARRY

DEC FORM NO. 100-8

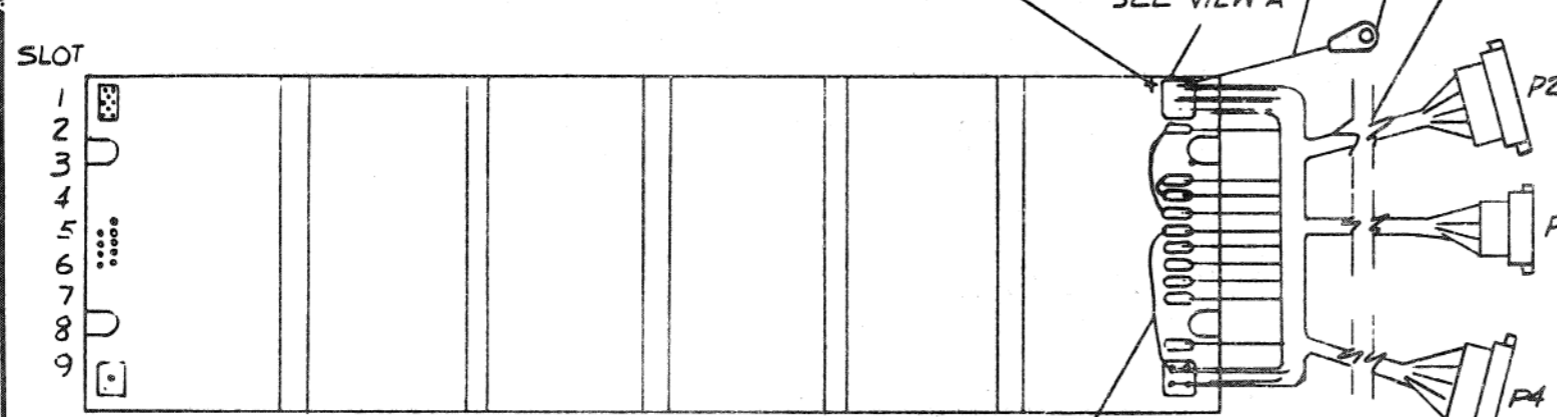
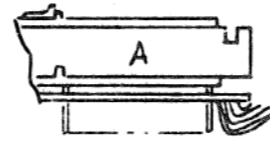
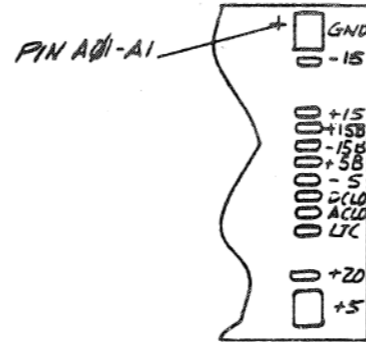
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WIRE TABLE

FROM		TO		FROM		TO	
COLOR	POINT	CONNECTION	SIGNAL	COLOR	POINT	CONNECTION	SIGNAL
BLU	P4-13	SOLDER	-15V	BRN	P2-14	SOLDER	-5V
RED	P4-4		+5V	BLK	P2-8		GND
RED	P4-1		+5V	GRAY	P2-2		+15
BLK	P4-8		GND	ORN	P2-3		+20
ORN	P4-3		+20V	BLK	P2-9		GND
BLK	P4-9		GND	RED	P2-10	SOLDER	+5B
WHT	P4-6		+15B	ITEM#5	ITEM#6	SOLDER	GND
GRN	P4-15		-15B				
YEL	P3-4		ACLO				
BLK	P3-1		GND				
BEV	P3-2		LTC				
VIO	P3-3		DCLO				
RED	P2-4		+5V				
RED	P2-1	SOLDER	+5V				

NOTES:

- WHEN DD11-PF IS USED WITH A BAI1-F EXP BOX WITHOUT BATTERY BACK UP INSTALL THE THREE JUMPERS SHOWN:
 1) -15 TO -15B
 2) +15 TO +15B
 3) +5 TO +5B
 USE #20 INSULATED BUS WIRE ON SIDE 2 THIS WILL PROVIDE POWER TO THE MOS MEM VOLTAGE RAILS.
- INSTALL ITEM #6 UNDER LOGIC FRAME MOUNTING SCREW TO TIE LOGIC GROUND TO CHASSIS GROUND.



QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	TERMINAL, SOLDER	9008150	6
1	WIRE, BLK STRD #14	9107370-00	5
1/2	TUBING, #20 (CLEAR)	9107267-10	4
1/2	WIRE, BUS #20	9107560-02	3
1	POWER HARNESS BAI1-F	D-1A-7011109-0-0	2
1	WIRED ASSY DD11-P	C-1A-7011522 D-0	1

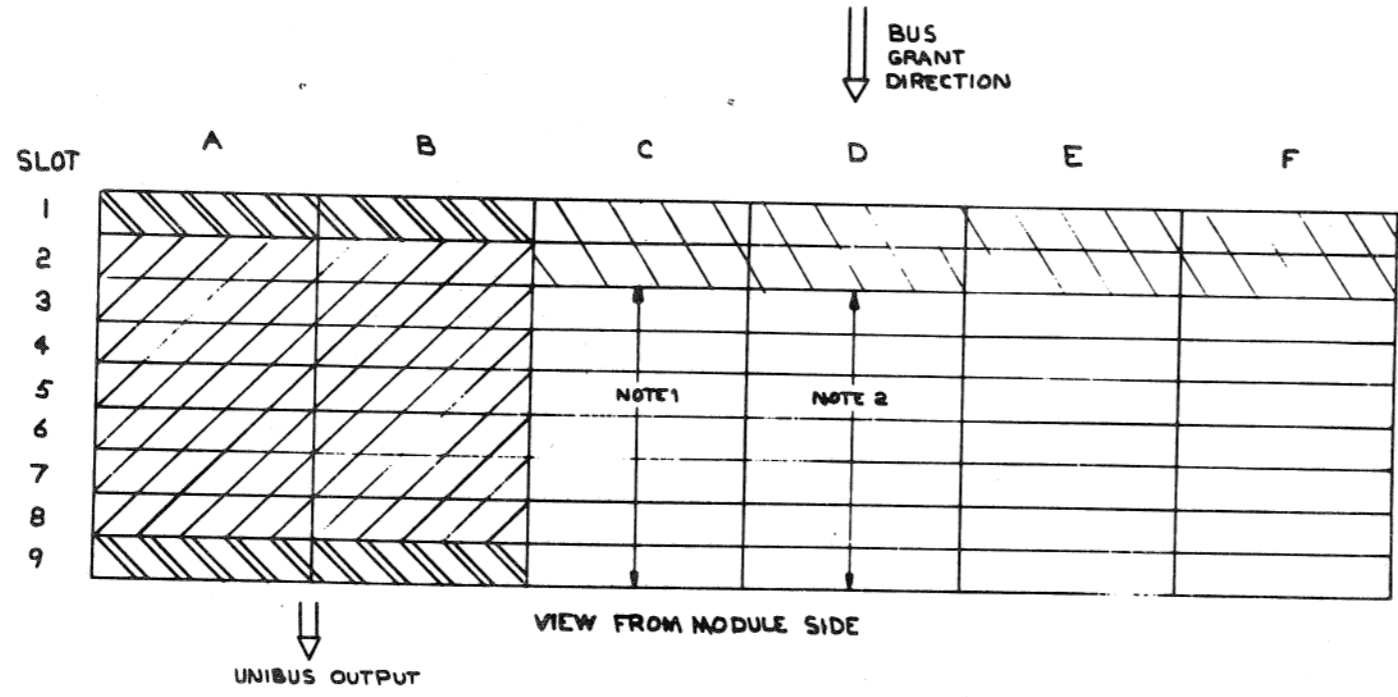
FIRST USED ON OPTION/MODEL DD11-PF		PARTS LIST	
DIMENSIONAL TOLERANCE		DRN	DATE
DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED		CHK'D	DATE
MILLIMETERS		ENG	DATE
X,XX ±0.10	XXX ±0.005	PROJ. ENG.	DATE
X,X ±0.5	.XX ±.002	PROD.	DATE
X ±.5	.X ±.1		
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	TITLE	
		BACK PLANE ASSY (DD11-PF)	
	MATERIAL SEE PARTS LIST	SIZE CODE	NUMBER
	FINISH	CAD	7012307-0-0
		SCALE	REV.
		1/1	

REV.	
CHANGE NO.	
CHK	

REV. CAD7012307-0-0

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- NOTES:
1. REMOVE CA1 TO CBI WIRE WRAP JUMPER TO INSTALL AN NPR OPTION IN ANY SPC SLOT.
 2. G727 REQUIRED IN ANY UNUSED SPC SLOT TO PROVIDE BUS GRANT CONTINUITY.
 3. GRANT DIRECTION IS SLOT 1 TO SLOT 9.
 4. USE M9282 TO INTERCONNECT SYSTEM UNITS INSTEAD OF M928. M9282 IS A 2 FT. UNIBUS JUMPER CABLE USED TO DISTRIBUTE UNIBUS LOADING.
 5. M9302 (SACK/TERM) AND M9306 (TERM) MUST NEVER BE INSTALLED IN ANY SLOT OTHER THAN SLOT 9 (A & B). POWER SUPPLY VOLTAGES WILL BE SHORTED OUT IF THESE TERMINATORS ARE MOUNTED IN THE MODIFIED UNIBUS SLOTS.
 6. MODIFIED UNIBUS SECTION CARRIES CORE AND MOS MEMORY VOLTAGE RAILS AND MEMORY PARITY CONTROL SIGNALS INSTEAD OF BUS GRANT AND SOME GND SIGNALS THAT ARE CONTAINED IN STANDARD UNIBUS SLOTS.
 7. REFER TO NEXT PAGE FOR RECOMMENDED UTILIZATION OF THIS SLOT IN STANDARD SYSTEM.
 8. THIS SLOT IS RESERVED FOR KKII-A OPTION ON PDP1134A ONLY BAI-K BOX ONLY.
 9. SLOT 3 IS TO BE USED FOR EITHER KKII-A OR FPII-A OPTIONS. IF BOTH OPTIONS ARE PRESENT FPII-A MUST GO IN SLOT 3 AND KKII-A IN SLOT 5 THESE CONFIGURATIONS APPLY TO BOTH THE BAI-L (5'4") AND BAI-K (10.5") BOXES.
 10. EITHER M9312 OR M9301 MAY BE USED BUT NOT BOTH.



STANDARD UNIBUS (SLOTS 1 & 9)
 DUAL MODULES WHICH PLUG INTO STANDARD UNIBUS SLOTS ONLY:
 BC11A UNIBUS CABLE
 M9302 SACK/TERM (M9315)
 M920 (NOTE 4)
 M930 (NOTE 5)
 M9202 (NOTE 4)
 SLOT 9 (A&B) EITHER THE TERMINATION OF THE UNIBUS OR THE OUTPUT CABLE (BC11A)

MODIFIED UNIBUS (SLOTS 2-8)
 DUAL MODULES WHICH PLUG INTO THE MODIFIED UNIBUS ONLY:
 M9312 BOOT/TERM.
 M9306 TERM.
 M7660 PARITY CONT.

SMALL PERIPHERAL CONTROLLER (SLOTS 3-9)
 ANY S.P.C. OPTION
 CPU BUS (SLOTS 1 & 2)
 PROCESSOR INTERCONNESS FOR KD11-E AND KD11-EH

HEX MODULE WITH MODIFIED UNIBUS SIGNALS (SLOTS 2-8)
 HEX MODULES THAT PLUG INTO MODIFIED UNIBUS ONLY:
 M7847 MOS MEMORY (M811 EP-JP)
 MM11-BP, CP, DP, OR YP CORE MEMORY

HEX MODULE WITH STANDARD UNIBUS SIGNALS SLOT 3 ONLY
 M7263 PDP11/04 CPU MODULE OR M7266 PDP 1134 CONTROL MODULE
 M7266 KD11-E (PDP 11/84) CONTROL MODULE
 M8266 KD11-RE (PDP 1134A) CONTROL MODULE

- GENERAL**
 ANY HEX MODULE THAT MEETS EITHER OF THE FOLLOWING REQUIREMENTS CAN BE MOUNTED IN THESE SLOTS.
- 1) THOSE PINNED TO TAKE SIGNALS FROM MODIFIED UNIBUS (A & B) WITH THE BUS GRANTS TAKEN FROM SPC SLOTS 10: ABOVE
 - 2) THOSE PINNED TO TAKE SIGNALS FROM STANDARD SPC PINNING WITH THE EXCEPTION OF POWER FROM (A & B). 10: SPECIAL OPTIONS

REV.	DATE	BY	CHKD
1	11/10/77	J. S. O'NEILL	J. S. O'NEILL
2	11/10/77	J. S. O'NEILL	J. S. O'NEILL
3	11/10/77	J. S. O'NEILL	J. S. O'NEILL
4	11/10/77	J. S. O'NEILL	J. S. O'NEILL
5	11/10/77	J. S. O'NEILL	J. S. O'NEILL
6	11/10/77	J. S. O'NEILL	J. S. O'NEILL
7	11/10/77	J. S. O'NEILL	J. S. O'NEILL
8	11/10/77	J. S. O'NEILL	J. S. O'NEILL
9	11/10/77	J. S. O'NEILL	J. S. O'NEILL

DESCRIPTION	DRWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
CLASS OF ACCURACY	NORMAL DIMENSION RANGE INCHES	
SURFACE FINISH	0.005	0.005
	0.010	0.010
QUALITY VARIATION	1.000	1.000
	1.010	1.010
THIRD ANGLE PROJECTION		
DRW. DATE	11/3/77	FIRST USED ON
CHKD. DATE	11/10/77	
DRG. NO.	2-25	TITLE
PROJ. ENGR.	2-25	MODULE UTILIZATION (DD11-P)
PROD. EX. NO.	3000	
DO NOT SCALE DRG.		
MATERIAL	B-DD-DD11-P-2	SIZE CODE
SCALE	1:1	NUMBER
FINISH		DIST.

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RECOMMENDED SLOT UTILIZATION IN STANDARD SYSTEMS

DDI-P-2 2

KD11-D w/M9312 & MS11-JP(FP) PDP-11/04

SLOT 1	M7263
2	MS11-JP (FP)
3	M9312
4	
5	
6	
7	
8	
SLOT 9	

KD11-E w/M9312 PDP-11/34

SLOT 1	M7266
2	M7265
3	M9312
4	
5	
6	
7	
8	
SLOT 9	

KD11-D w/M9312 & MM11-DP/OR MM11-YP PDP-11/04

SLOT 1	M7263
2	MM11-DP
3	
4	M9312
5	
6	
7	
8	
SLOT 9	

KD11-EA w/M9312 FP11-A PDP-1134A

SLOT 1	M8266
2	M8265
3	M8267
4	M9312
5	
6	
7	
8	
SLOT 9	

KD11-D w/M9312 & MM11-CP PDP-11/04

SLOT 1	M7263
2	MM11-CP
3	M9312
4	
5	
6	
7	
8	
SLOT 9	

**BA11-K 10.5" BOX/BA11-L 5.25" BOX
w/M9312 FP11-A KK11-A**

SEE NOTE 9 →

SLOT 1	M8266
2	M8265
3	M8267
4	M9312
5	M8268
6	
7	
8	
SLOT 9	

KD11-EA w/M9312 PDP-1134A

SLOT 1	M8266
2	M8265
3	M9312
4	
5	
6	
7	
8	
SLOT 9	

BA11-K 10.5" BOX/BA11-L 5.25" BOX

SEE NOTE 9 →

SLOT 1	M8266
2	M8265
3	M8267 OR M8268
4	M9312
5	
6	
7	
8	
SLOT 9	

A B C D E F

A B C D E F

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	MODULE UTILIZATION (DDI-P)	SIZE CODE	DMU	NUMBER	DDI-P-2	REV.	D
SCALE		SHEET	2 OF 2	DIST.			

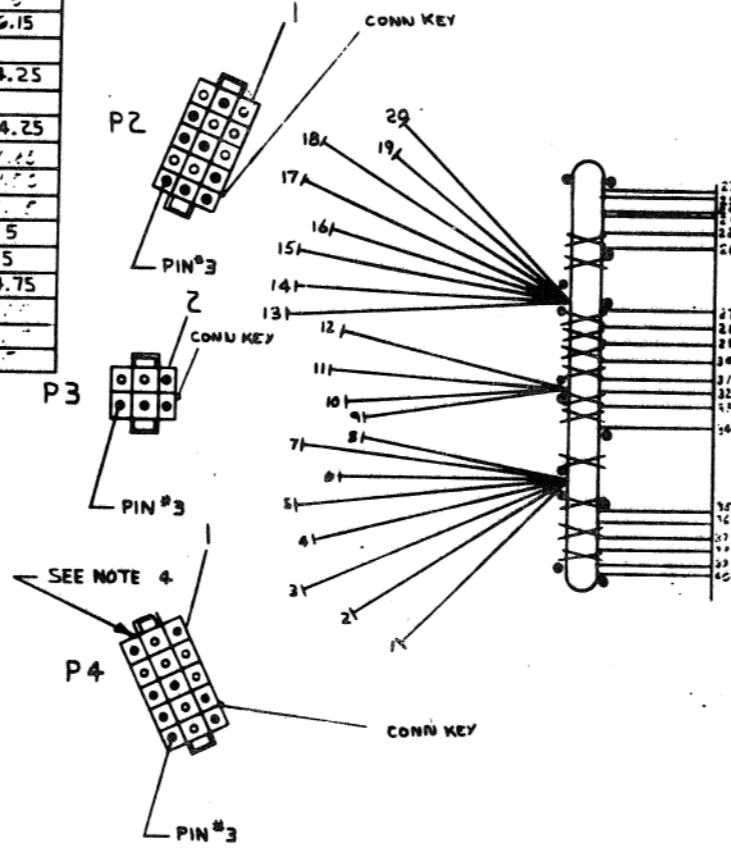
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0-C-801102 710 2

- NOTES:
1. USE TIE WRAPS (X) ITEMS AT BREAKOUT POINTS SHOWN
 2. DOT (•) INDICATES NAIL LOCATION FOR ASS'Y USE ONLY. COVER NAILS WITH SHINK TUBING TO PREVENT CUTTING HARNESS.
 3. WIRE LENGTH TOLERANCES WILL BE $\pm \frac{1}{8}$, -0 INCHES.
 4. ALL CONN. SHOWN FROM WIRING SIDE.

WIRING TABLE

ITEM NO.	DESCRIPTION	AWG	COLOR	FROM			TO		SIGNAL	LENGTH
				POINT	CONNECTION	WITH	POINT	CONNECTION		
9	#18	BLU	1	P4-13	3	26	SOLDER	-15V	7	
5	14	RED	2	P4-4		37		+5V	5	
5	14	RED	3	P4-1		38		+5V	5	
6	14	BLK	4	P4-8		21		GND	7.75	
7	14	ORN	5	P4-3		35		+2CV	5	
6	14	BLK	6	P4-9		22		GND	5	
13	18	WHT	7	P4-6		28		+5B	6.15	
14	18	GRN	8	P4-15		29		-15B		
12	18	YEL	9	P3-4		33		ACLO	4.25	
6	14	BLK	10	P3-1		23		GND		
10	18	BRN	11	P3-2		34		LTC	4.25	
11	18	VIO	12	P3-3		32		DCLO	4.25	
5	14	RED	13	P2-4		39		+5V	4.75	
5	14	RED	14	P2-1		40		+5V	4.75	
10	18	BRN	15	P2-14		31		-5V	5	
6	14	BLK	16	P2-8		24		GND	5	
8	18	GRY	17	P2-2		27		+15	4.75	
7	14	ORN	15	P2-3		36		+20	4.75	
6	14	BLK	19	P2-9		25		GND	5	
5	14	RED	20	P2-12	3	30	SOLDER	+5B	5	



DO NOT REDUCE SCALE FOR MANUFACTURING PURPOSES ONLY

0 IN 6 IN 12 IN

FOR WIRE LENGTHS SEE WIRING TABLE

ITEM NO.	DESCRIPTION	QTY	ITEM NO.
1	POWER HARNESS DECALS	7409872-2-0	15
14	WIRE #18 AWG, GRN	9107360-55	14
13	WIRE #18 AWG, WHT	9107360-99	13
12	WIRE #18 AWG, YEL	9107360-44	12
11	WIRE #18 AWG, VIO	9107360-77	11
10	WIRE #18 AWG, BRN	9107360-11	10
9	WIRE #18 AWG, BLU	9107360-66	9
8	WIRE #18 AWG, GRY	9107360-38	8
7	WIRE #14 AWG, ORN	9107370-33	7
6	WIRE #14 AWG, BLK	9107370-00	6
5	WIRE #14 AWG, RED	9107370-22	5
4	TIE WRAP	90070 31	4
3	PIN MALE	1209378-01	3
2	CONN. 6 PIN HOUSING	1209351-06	2
1	CONN. 15 PIN HOUSING	1209351-15	1

REV.	DATE	BY	CHKD.
1			
2			

THIRD ANGLE PROJECTION

REMOVE SURFS AND BREAK SHARP CORNERS

DO NOT SCALE DIMS

MATERIAL SEE PARTS LIST

FINISH

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

CLASS OF SURFACE	CLASS OF ACCURACY	CLASS OF FINISH	CLASS OF TOLERANCE
AS SHOWN	AS SHOWN	AS SHOWN	AS SHOWN

QUANTITY & VARIATION

DRN. *AA 2616 8/11/75* FIRST USED ON *DD11-D*

CHK'D. *D. 2616 5/21/75*

DRN. *12 B...*

PROJ. ENGR. *...*

PROD. *...*

NEXT HIGHER ASSY.

C-AD-701164-0-0

SCALE 1/1

SHEET 2 OF 2

TITLE POWER HARNESS (BA11-K, BA11-L)

SIZE CODE D IA

NUMBER 701108-0-0

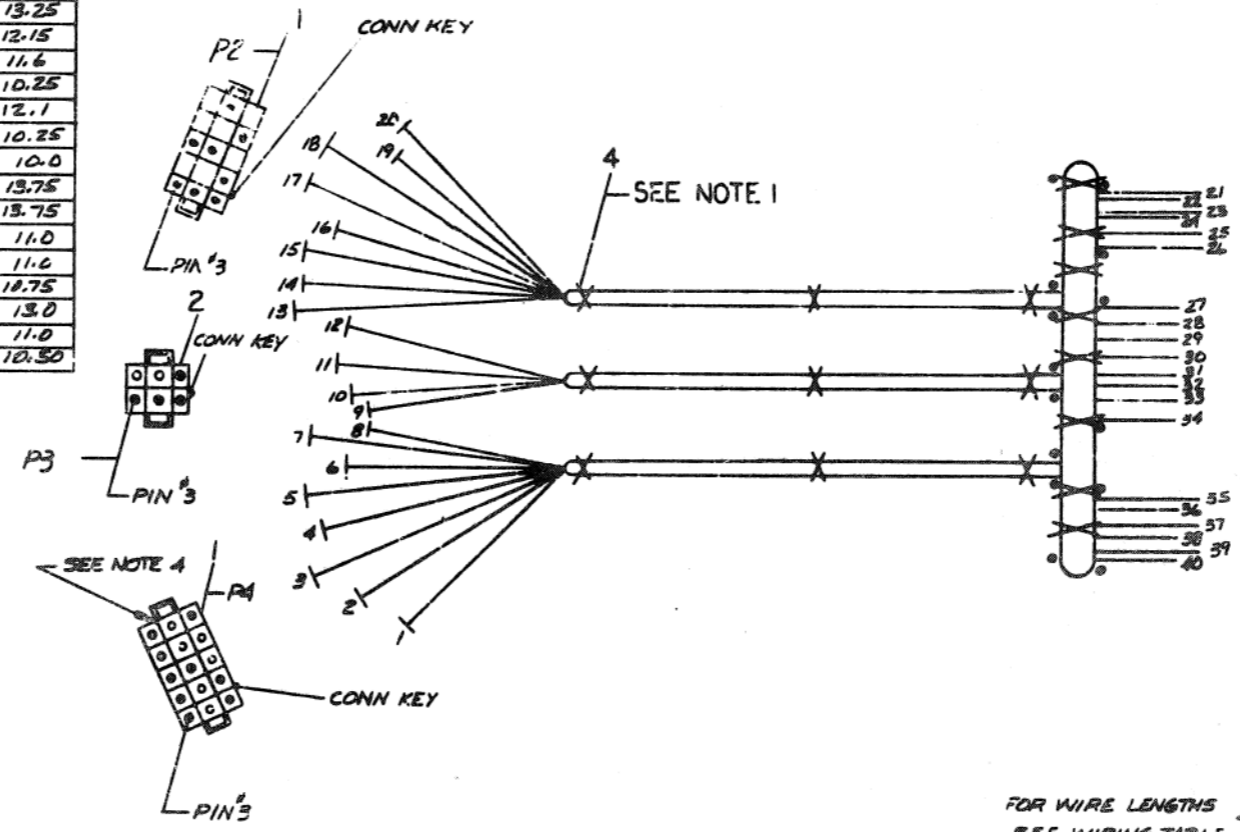
REV. B

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WIRING TABLE

ITEM NO	DESCRIPTION	FROM			TO		SIGNAL	LENGTH	
		AWG	COLOR	POINT	CONNECTION	WITH			POINT
9	18	BLU	1	P4-13	3	26	SOLDER	-15V	12.75
5	14	RED	2	P4-4		37		+5V	11
5	14	RED	3	P4-1		38		+5V	11.25
6	14	BLK	4	P4-8		21		GND	13.75
7	14	ORN	5	P4-3		35		+20V	11.0
6	14	BLK	6	P4-9		22		GND	13.25
13	18	WHT	7	P4-6		28		+15B	12.15
14	18	GRN	8	P4-15		29		-15B	11.6
12	18	YEL	9	P3-4		33		ACLO	10.25
6	14	BLK	10	P3-1		23		GND	12.1
10	18	BRN	11	P3-2		34		LTC	10.25
11	18	VID	12	P3-3		32		DELD	10.0
5	14	RED	13	P2-4		39		+5V	13.75
5	14	RED	14	P2-1		40		+5V	13.75
15	14	BRN	15	P2-14		31		-5V	11.0
6	14	BLK	16	P2-8		24		GND	11.6
8	18	GRY	17	P2-2		27		+15	10.75
7	14	ORN	18	P2-3		36		+20	13.0
6	14	BLK	19	P2-9		25		GND	11.0
5	14	RED	20	P2-10	3	30	SOLDER	+3B	10.50

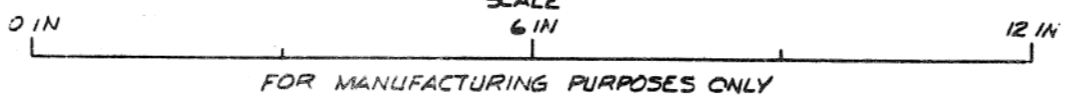
- NOTES:
1. USE TIE WRAPS (X) ITEM #4 AT BREAKOUT POINTS SHOWN.
 2. DOT (•) INDICATES NAIL LOCATION FOR ASSY USE ONLY. COVER NAILS WITH SHRINK TUBING.
 3. WIRE LENGTH TOL WILL BE ± .12 IN
 4. ALL CONN SHOWN FROM WIRING SIDE.
 5. STRIP 1/8" INSULATION FROM POINTS 21 THRU 40 AND FULL TIN POINTS 21 THRU 40.



DESCRIPTION	QTY	PART NO.	ITEM NO.
1 POWER HARNESS DECAL	1	7409872-2	16
NR WIRE #14 AWG (BRN)	15	9107370-11	15
NR WIRE #18 AWG (SRN)	14	9107360-55	14
NR WIRE #18 AWG (WHT)	13	9107360-99	13
NR WIRE #18 AWG (YEL)	12	9107360-44	12
NR WIRE #18 AWG (VID)	11	9107360-77	11
NR WIRE #18 AWG (BRN)	10	9107360-11	10
NR WIRE #18 AWG (BLU)	9	9107360-66	9
NR WIRE #18 AWG (GRY)	8	9107360-88	8
NR WIRE #14 AWG (ORN)	7	9107370-33	7
NR WIRE #14 AWG (BLK)	6	9107370-00	6
NR WIRE #14 AWG (RED)	5	9107370-22	5
17 TIE WRAP	4	9007031	4
20 PIN MALE	3	1204378-01	3
7 CONN 6 PIN HOUSING	2	1207351-06	2
2 CONN 15 PIN HOUSING	1	1209351-15	1

FOR WIRE LENGTHS SEE WIRING TABLE

DO NOT REDUCE SCALE 6 IN



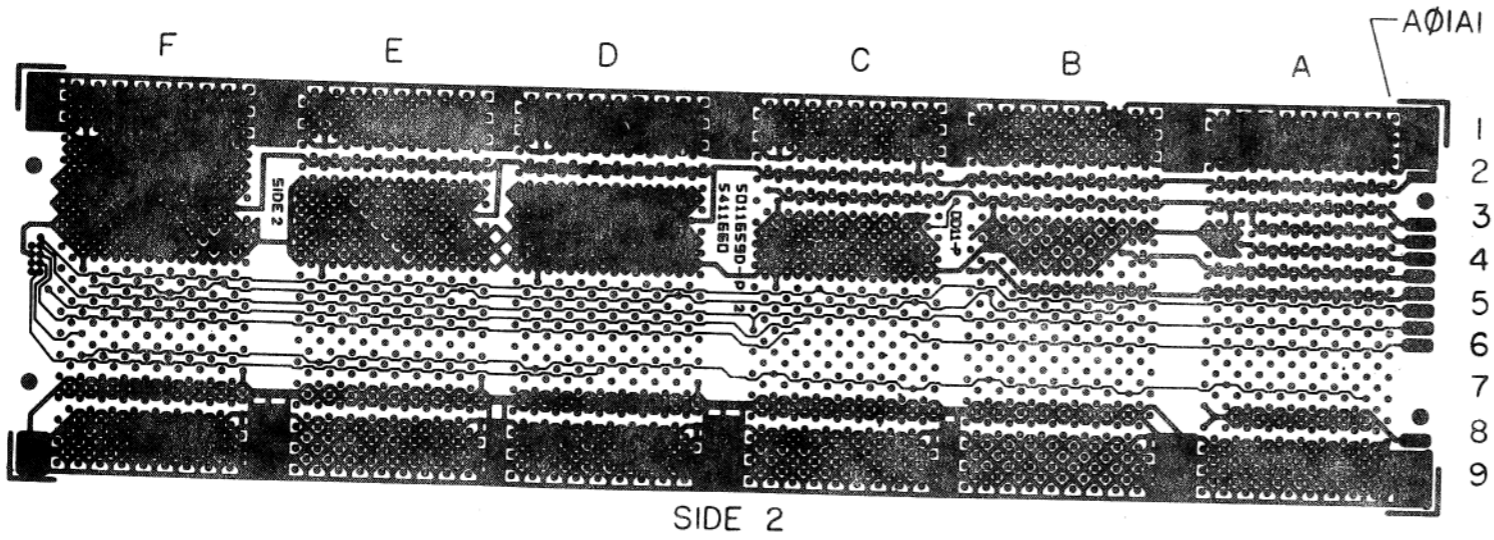
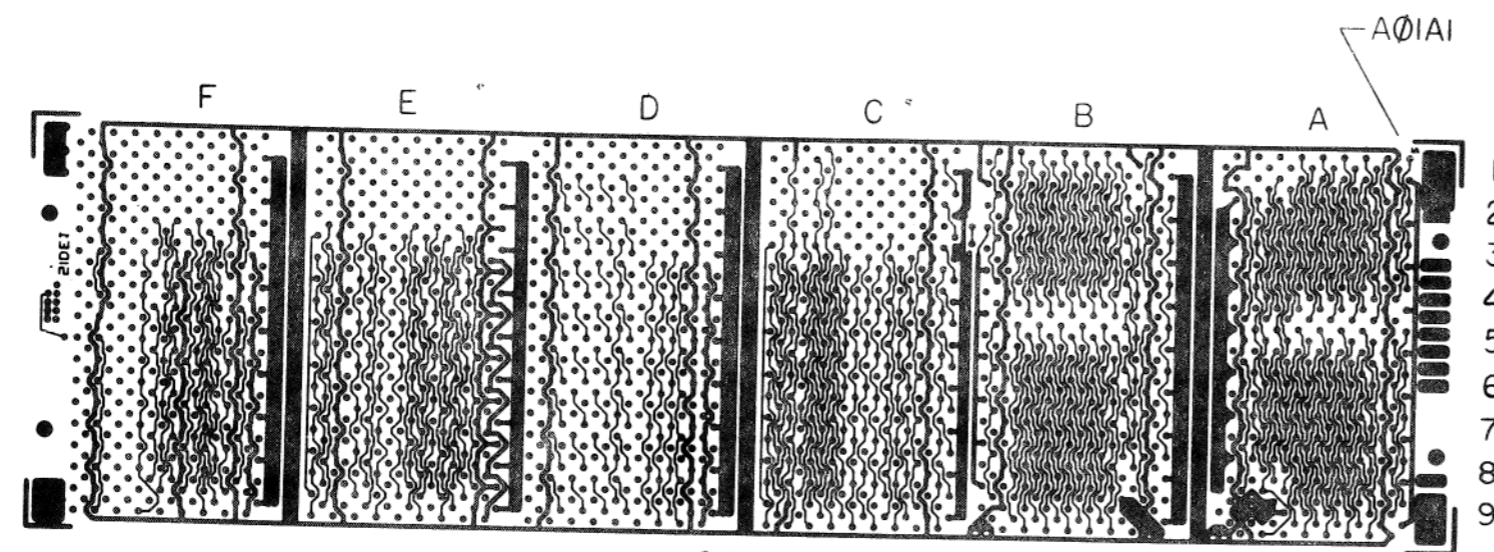
REV.	DATE	BY	CHKD	DESCRIPTION
1	11/17/75	D. BARRY		ISSUED FOR PRODUCTION
2	12/18/75	P. PORRECA		REVISED

QUANTITY & VARIATION	DESCRIPTION	DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
CLASS OF ACCURACY	FIRST USED ON DD11-DF, PF		
SURFACE QUALITY	TITLE POWER HARNESS (BA11-F)		
PREFERRED	MATERIAL SEE PARTS LIST		
DO NOT SCALE DWG	SCALE 1/1		
REMOVE BURRS AND BREAK SHARP CORNERS	SHEET 1 OF 1		
DO NOT SCALE DWG	REV. E		

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NOTES:

CS 5411660-0-1



IC TYPE	GND	+5V

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

DEC FORM NO. 136 B

FIRST USED ON OPTION MODEL

DRN. 2-2-75	D. BARRY	5411660-00002
CHKD. 7-2-75	R. BARRY	5411660-00001
APP. 7-2-75	R. BARRY	5411660-00001
PROL. ENG. 7-2-75	R. BARRY	5411660-00001
PRCD. 7-2-75	R. BARRY	5411660-00001

REV.	DATE	BY	DESCRIPTION
C	8-11-75	M. S. Williams	CHANGE NO.
D	6-NOV-75	R. BARRY	CHANGE NO.
E	2-11-76	R. BARRY	CHANGE NO.
F	11-14-75	R. BARRY	CHANGE NO.
G	6-NOV-75	R. BARRY	CHANGE NO.
H	9/24/75	R. BARRY	CHANGE NO.

AWT REV STATUS	A-WT-7011522-0	5
MODULE ECO HISTORY	B-MN-5411660-0-6	4
ASSY/DRILLING HOLE LAYOUT	D-AH-5411660-0-5	3
X-Y COORDINATE HOLE LOCATION	K-CO-5411660-0-4	2
ETCHED CIRCUIT BOARD	5011659	1

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

ETCH BOARD REV. D									
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DRN. 2-2-75	DATE	6-20-75	
CHKD. 7-2-75	DATE	7-2-75	
APP. 7-2-75	DATE	7-2-75	
PROL. ENG. 7-2-75	DATE	7-2-75	
PRCD. 7-2-75	DATE	7-2-75	
	DATE		

C 1A-7011521-0-0	SHEET 1 OF 1	DIST.						
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TITLE
CIRCUIT SCHEMATIC

SEMICONDUCTOR CONVERSION CHART

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

CS 5411660-0-1