

TITLE	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY DD11-D	2 OF 3	B	DD	DD11-D	C

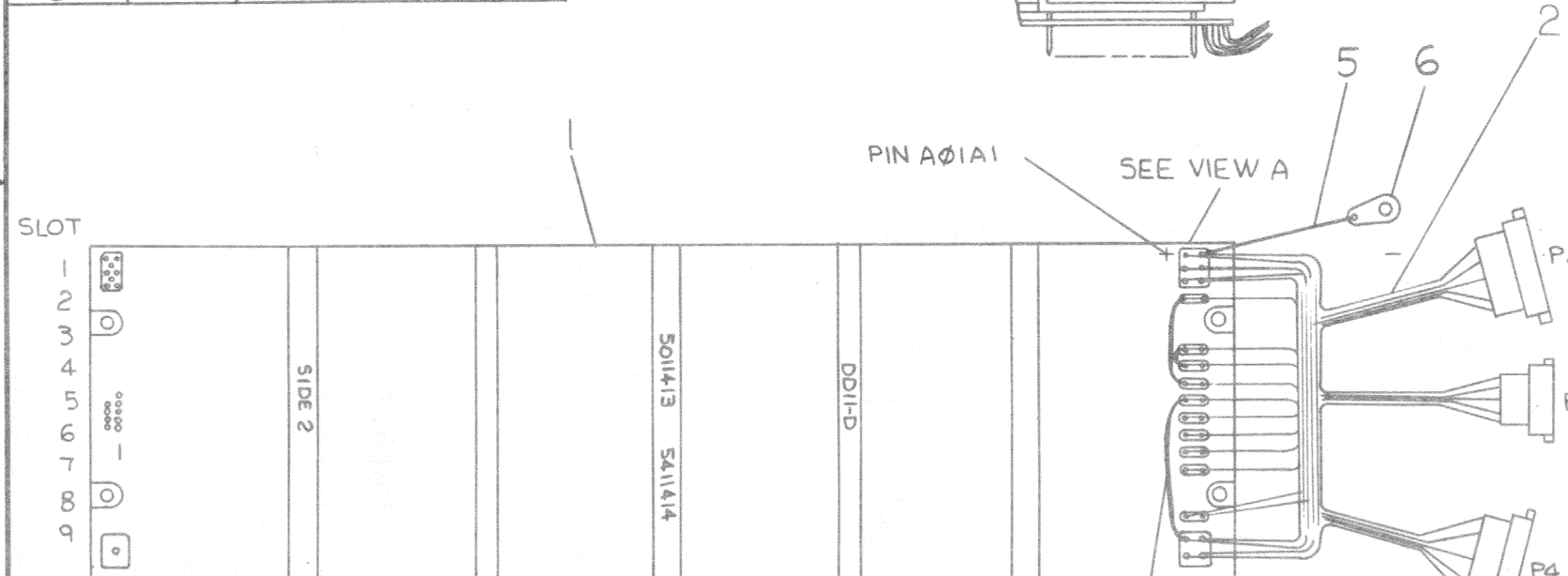
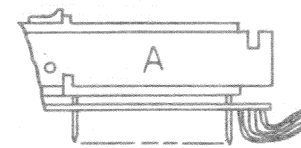
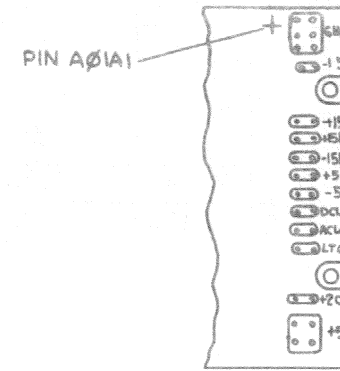
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WIRE TABLE

FROM				TO			
COLOR	POINT	CONNECTION	SIGNAL	COLOR	POINT	CONNECTION	SIGNAL
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	ITEM 5	ITEM 6	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 DDII-DK'S USED WITH A BAII-K EXPANSION BOX WITHOUT BATTERY BACK-UP (I.E., NO H785 NOR H7850), INSTALL THE THREE JUMPERS SHOWN:
 a) -15 TO -15B, b) +15 TO +15B, c) +5 TO +5B
 USE #20 SHIELDED BUS WIRE ON SIDE 2. THIS WILL PROVIDE POWER TO THE MOS MEMORY VOLTAGE RAILS. (SEE NOTE 3)
- INSTALL ITEM #6 UNDER LOGIC FRAME MOUNTING SCREW TO TIE LOGIC GROUND TO CHASSIS GROUND.
- BAII-K'S THAT USE THE 5410864-YA-1 POWER DISTRIBUTION (I.E., 11/34A, 11/34 WITH FPII-AU, AND SOME 11/04'S) AND HAVE MORE THAN ONE DDII-DK (OR AN ADDITIONAL DDII-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.



QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	TERMINAL, SOLDER	9008150	6
2"	WIRE, BLK STRD #14	9107370-00	5
6"	TUBING, #20 (CLEAR)	9107267-10	4
6"	WIRE, BUS # 20	9107560-02	3
1	POWER HARNESS (BAII-K, BAIH)	D-IA-701108-0-0	2
1	WIRED ASSY DDII-D	C-IA-701158-0-0	1

REV.	CHANGE NO.	DATE	BY
A	7011164-00001	10/01/75	R. BARRY
B	DDII-D-00004	10/01/75	R. BARRY
C	DDII-D-00006	13 Oct. 76	D. Chinnon
		13 JAN 76	R. Barry
		6 MAY 77	D. Swickler
		9 MAY 77	R. Barry

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
DDII-DK				
DIMENSIONAL TOLERANCE				
DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED				
MILLIMETERS	INCHES	ANGLES		
X,XX ±0.10	.XXX ±.005	±0° 30'		
X.X ±0.5	.XX ±.02			
X ±2	.X ±.1			
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓			
MATERIAL SEE PARTS LIST	NEXT HIGHER ASSY.			
FINISH + +	A-PL-DDII-D-Ø		SIZE CODE C AD	NUMBER 7011164-0-0
	SCALE ++	SHEET 1 OF 1	DIST.	REV. C

digital

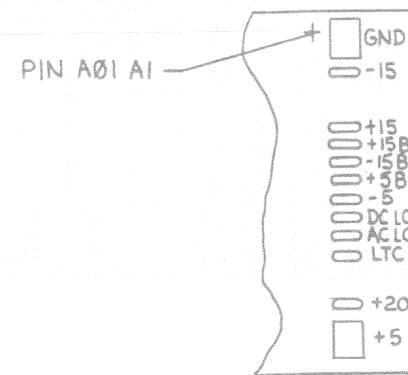
TITLE: BACKPLANE ASS'Y (DDII-DK)

REV. C
NUMBER C
SIZE CODE C
CAD7011164-0-0

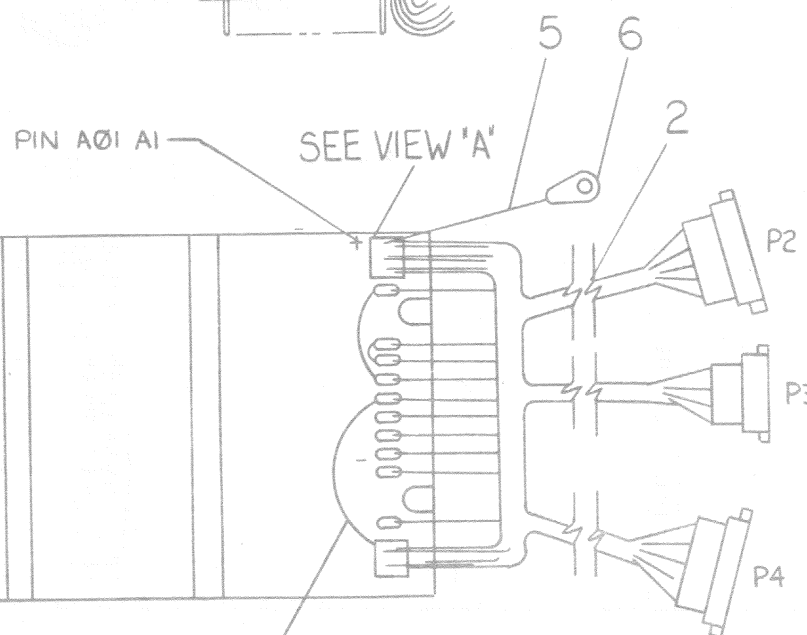
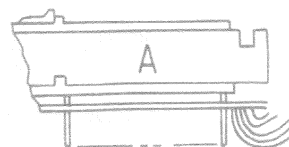
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WIRE TABLE

FROM			TO	FROM			TO
COLOR	POINT	CONNECTION	SIGNAL	COLOR	POINT	CONNECTION	SIGNAL
BLU	P4-13	SOLDER	-15 V	BRN	P2-14	SOLDER	-5V
RED	P4-4		+5V	BLK	P2-8		GND
RED	P4-1		+5V	GRY	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	+5 B
WHT	P4-6		+15 B	ITEM#5	ITEM#6	SOLDER	GND
GRN	P4-15		-15 B				
YEL	P3-4		AC 10				
BLK	P3-1		GND				
BRN	P3-2		LTC				
VIO	P3-3		DC 10				
RED	P2-4		+5V				
RED	P2-1	** SOLDER	+5V				



VIEW "A"



NOTES:

- WHEN DDII-DF IS USED WITH A BAII-F EXP. BOX WITHOUT BATTERY BACK UP INSTALL THE THREE JUMPERS SHOWN:
 1) -15 TO -15 B
 2) +15 TO +15 B
 3) +5 TO +5 B
 USE #20 INSULATED BUS WIRE ON SIDE 2. THIS WILL PROVIDE POWER TO THE MOS MEM VOLTAGE RAILS.
- INSTALL ITEM #6 UNDER LOGIC FRAME MTG. SCREW TO TIE LOGIC GROUND TO CHASSIS GROUND.
- THE BAII-F POWER HARNESS ITEM #2 IS NOT ELECTRICALLY COMPATIBLE WITH THE BAII-L OR BAII-K MOUNTING BOX.

SLOT

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

REV. A	CHANGE NO. 0006	DDIID - 0006
CHK D.C.	D. Bauckel	5 MAY 77
REV. R. BARRY		9 MAY 77

QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	TERMINAL, SOLDER	9008150	6
AIR	WIRE, BLK STRD #14	9107370-00	5
AIR	TUBING, #20 (CLEAR)	9107267-10	4
AIR	WIRE, BUS #20	9107560-03	3
1	POWER HARNESS BAII-F	D-IA-7011109-0-0	2
1	WIRED ASSY DDII-D	C-IA-7011158-0-0	1

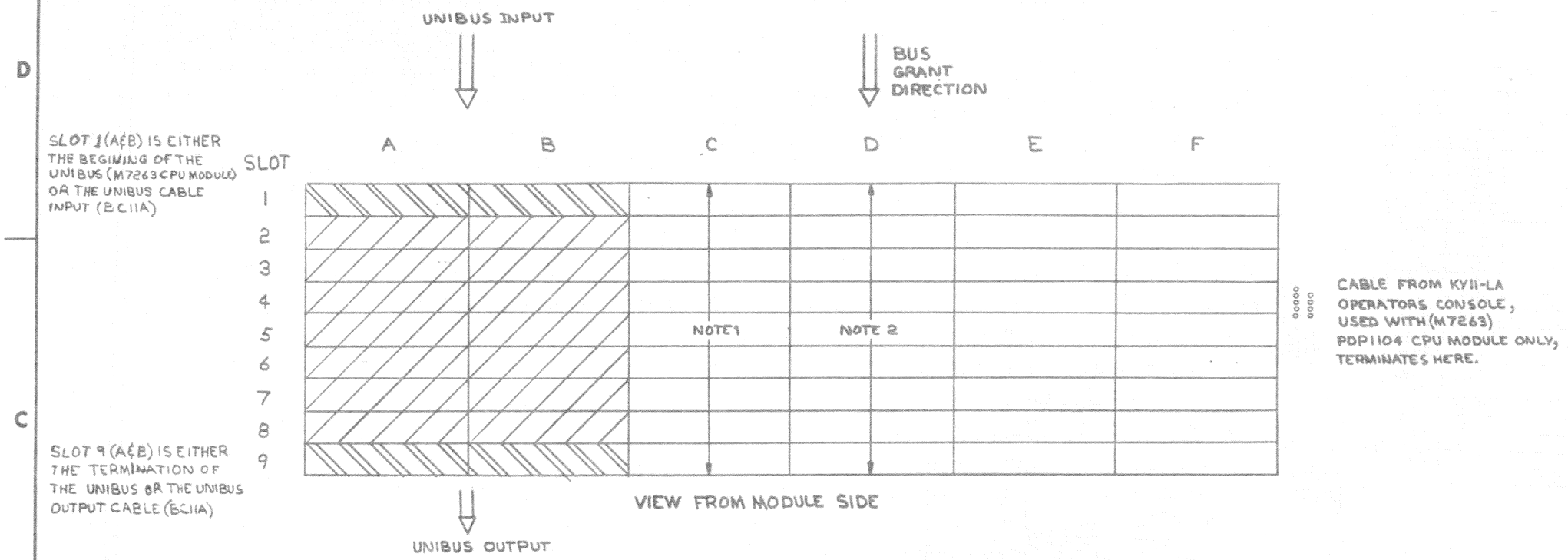
FIRST USED ON OPTION/MODEL DDII-DF		PARTS LIST	
DIMENSIONAL TOLERANCE DIMENSIONS ARE MILLIMETERS INCHES UNLESS OTHERWISE SPECIFIED		DRN. R. Beasley DATE 12-18-75	
MILLIMETERS INCHES ANGLES		CHK'D J. Wasy DATE 12-18-75	
X,XX = ±0.10	.XX = ±0.005	ENG. Richard Barry DATE 3-10-76	
X,X = ±0.5	.X = ±0.02	PROJ. ENG. Richard Barry DATE 3-10-76	
X = ±2	.X = ±1	PROD. R. X. M. O. DATE 3-16-76	
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	TITLE BACK PLANE ASSY (DDII-DF)	
MATERIAL SEE PARTS LIST	FINISH #	NEXT HIGHER ASSY.	
SCALE #		SIZE CODE C AD	NUMBER 7012306-0-0
SHEET 1 OF 1		DIST.	REV. A

REV. A
NUMBER 7012306-0-0
SIZE CODE C AD

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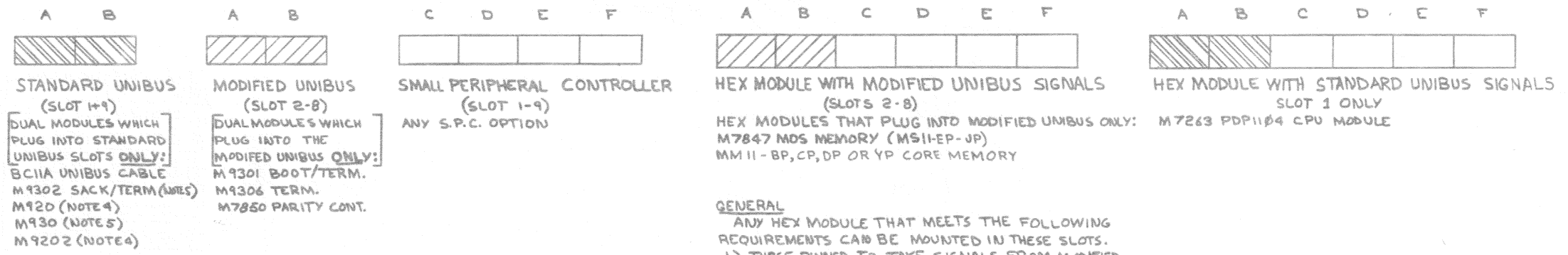
NOTES:

1. REMOVE CA1 TO CB1 WIRE WRAP JUMPER TO INSTALL AN NPR OPTION IN ANY SPC SLOT.
2. 6727 REQUIRED IN ANY UNUSED SPC SLOT TO PROVIDE BUS GRANT CONTINUITY.
3. GRANT DIRECTION IS SLOT 1 TO SLOT 9.
4. USE M92B2 TO INTERCONNECT SYSTEM UNITS INSTEAD OF M92B. M92B2 IS A 2 FT. UNIBUS JUMPER CABLE USED TO DISTRIBUTE UNIBUS LOADING.
5. M93B2 (SACK/TERM) AND M93B (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.



SLOT 1 (A&B) IS EITHER THE BEGINNING OF THE UNIBUS (M7263 CPU MODULE) OR THE UNIBUS CABLE INPUT (BC11A)

SLOT 9 (A&B) IS EITHER THE TERMINATION OF THE UNIBUS OR THE UNIBUS OUTPUT CABLE (BC11A)



GENERAL
ANY HEX MODULE THAT MEETS 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

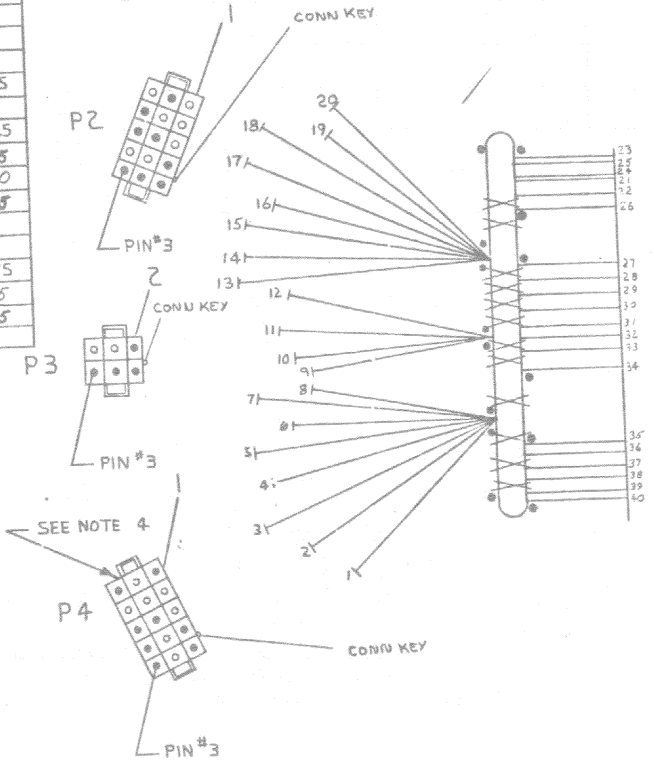
REV.	DATE	BY	CHK
1	11/17/75	B. BERNSTEIN	
2	12/17/75	B. BERNSTEIN	

QUANTITY & VARIATION	DRN. 9/2/75	FIRST USED ON	digital
THIRD ANGLE PROJECTION	CHK'D 5/21/75	TITLE	MODULE UTILIZATION (DD11-D)
REMOVE BURRS AND BREAK SHARP CORNERS	ENG. R. R. 5/21/75	PROJECT	
DO NOT SCALE DWG	PROD. R. K. 6/1/75	SCALE	
MATERIAL	B-DD-DD11-D	SIZE	D
FINISH		CODE	DD11-D-2
		NUMBER	1
		REV.	A

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- 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 $\pm 1/8$ - 0 INCHES.
 4. ALL CONN. SHOWN FROM WIRING SIDE.

ITEM NO.	DESCRIPTION		FROM			TO		SIGNAL	LENGTH
	AWG	COLOR	POINT	CONNECTION	WITH	POINT	CONNECTION		
9	#18	BLUE	1	P4-13	3	26	SOLDER	-15V	7
5	14	RED	2	P4-4	3	37	↑	+5V	5
5	14	RED	3	P4-1	3	38	↑	+5V	5
6	14	BLK	4	P4-8	3	21	↑	GND	7.75
7	14	ORN	5	P4-3	3	35	↑	+20V	5
6	14	BLK	6	P4-9	3	22	↑	GND	8
13	18	WHT	7	P4-6	3	28	↑	+5B	6.15
14	18	GRN	8	P4-15	3	29	↑	-15B	6
12	18	YEL	9	P3-4	3	33	↑	ACLO	4.25
6	14	BLK	10	P3-1	3	23	↑	GND	6
10	18	BRN	11	P3-2	3	34	↑	LTC	4.25
11	18	VIO	12	P3-3	3	32	↑	DCLO	4.25
5	14	RED	13	P2-4	3	39	↑	+5V	7.50
5	14	RED	14	P2-1	3	40	↑	+5V	7.25
10	18	BRN	15	P2-14	3	31	↑	-5V	5
6	14	BLK	16	P2-8	3	24	↑	GND	5
8	18	GREY	17	P2-2	3	27	↑	+15	4.75
7	14	ORN	18	P2-3	3	30	↑	+20	6.75
6	14	BLK	19	P2-9	3	25	↑	GND	5.15
5	14	RED	20	P2-12	3	30	SOLDER	+5B	5



DO NOT REDUCE SCALE
 6 IN
 12 IN
 FOR MANUFACTURING PURPOSES ONLY

FOR WIRE LENGTHS SEE WIRING TABLE

DESCRIPTION	DWG/PART NO.	ITEM NO.
1 POWER HARNESS DECALS	7409872-2-0	15
A/R WIRE #18 AWG, GRN	9107360-55	14
A/R WIRE #18 AWG, WHT	9107360-99	13
A/R WIRE #18 AWG, YEL	9107360-44	12
A/R WIRE #18 AWG, VIO	9107360-77	11
A/R WIRE #18 AWG, BRN	9107360-11	10
A/R WIRE #18 AWG, BLUE	9107360-66	9
A/R WIRE #18 AWG, GREY	9107360-38	8
A/R WIRE #14 AWG, ORN	9107370-33	7
A/R WIRE #14 AWG, BLK	9107370-00	6
A/R WIRE #14 AWG, RED	9107370-22	5
12 TIE WRAP	9007031	4
20 PIN MALE	1209378-01	3
1 CONN. 6 PIN HOUSING	1209351-06	2
2 CONN. 15 PIN HOUSING	1209351-15	1

REV.	DATE	BY	CHKD.
1	11/17/75	D. BARKY	
2	5/21/76	P. PORRECA	

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

CLASS OF ACCURACY	OVER 0.1 TO 0.2	OVER 0.2 TO 0.5	OVER 0.5 TO 1.0	OVER 1.0 TO 2.0	OVER 2.0 TO 5.0	OVER 5.0 TO 10.0	OVER 10.0 TO 30.0
ANGLES	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1
SURFACE QUALITY	10	10	10	10	10	10	10
MICROFINISH	0.004	0.008	0.012	0.016	0.024	0.04	0.08

QUANTITY & VARIATION

DRN. J. R. [Signature] 11/17/75

CHK'D. [Signature] 5/21/76

ENG. [Signature]

PROJ. ENG. [Signature]

PROD. [Signature]

DESCRIPTION: POWER HARNESS (BA11-K, BA1-L)

FIRST USED ON: DD11-D

TITLE: POWER HARNESS (BA11-K, BA1-L)

SIZE CODE: D

NUMBER: 701103-0-0

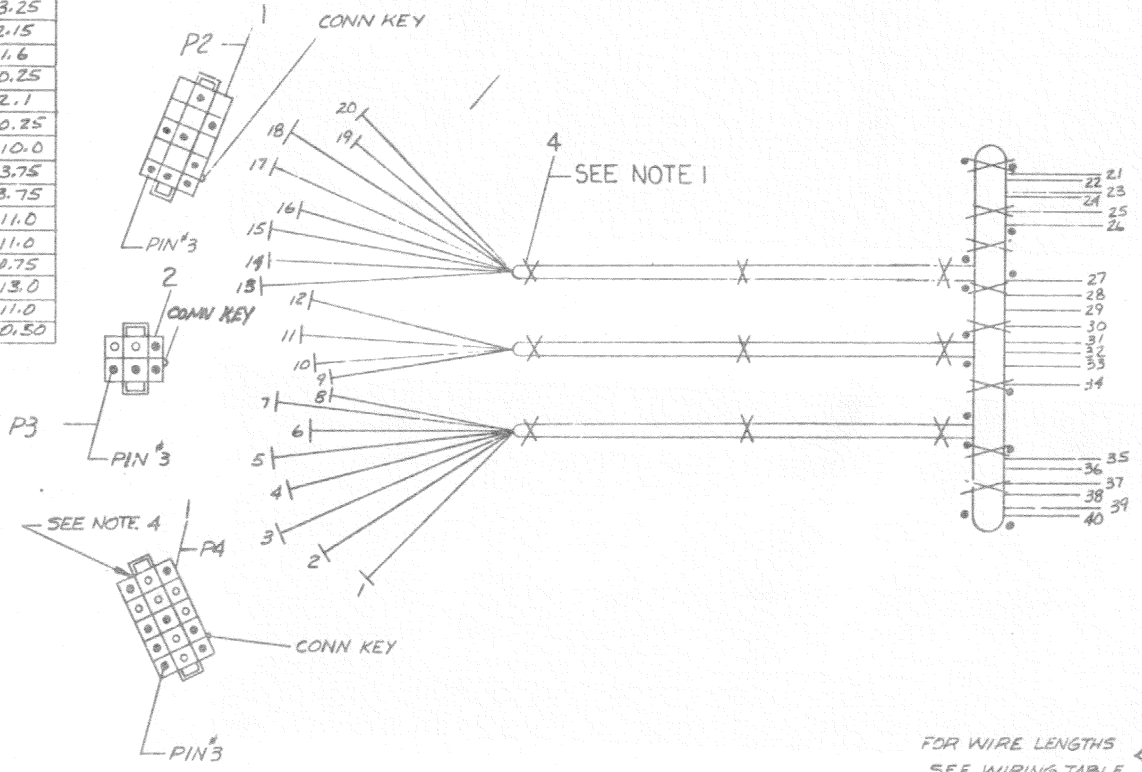
REV. B

SHEET OF 1

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- 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 $\pm .12$ IN
 4. ALL CONN SHOWN FROM WIRING SIDE.
 5. STRIP $\frac{1}{8}$ " INSULATION FROM POINTS 21 THRU 40 AND FULL TIN POINTS 21 THRU 40.

WIRING TABLE									
ITEM NO	AWG	COLOR	POINT	FROM CONNECTION	WITH	TO POINT	TO CONNECTION	SIGNAL	LENGTH
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	GRV	8	P4-15		29		-15B	11.6
12	18	YEL	9	P3-4		33		ACKO	10.25
6	14	BLK	10	P3-1		23		GND	12.1
10	18	BRN	11	P3-2		34		LTC	10.25
11	18	VIO	12	P3-3		32		DCLO	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	P2-1A		31		-5V	11.0
6	14	BLK	16	P2-8		24		GND	11.0
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	+5B	10.50



DO NOT REDUCE SCALE 6 IN 12 IN FOR MANUFACTURING PURPOSES ONLY

DESCRIPTION	DWG. PART NO.	ITEM NO.
1 POWER HARNESS DECAL	7409872-2	16
AIR WIRE #14 AWG (BRN)	9107370-11	15
AIR WIRE #18 AWG (GRN)	9107360-55	14
AIR WIRE #18 AWG (WHT)	9107360-99	13
AIR WIRE #18 AWG (YEL)	9107360-44	12
AIR WIRE #18 AWG (VIO)	9107360-77	11
AIR WIRE #18 AWG (BRN)	9107360-11	10
AIR WIRE #18 AWG (BLU)	9107360-66	9
AIR WIRE #18 AWG (GRY)	9107360-88	8
AIR WIRE #14 AWG (ORN)	9107370-33	7
AIR WIRE #14 AWG (BLK)	9107370-00	6
AIR WIRE #14 AWG (RED)	9107370-22	5
17 TIE WRAP	9007031	4
20 PIN MALE	1209378-01	3
1 CONN 6 PIN HOUSING	1209351-06	2
2 CONN 15 PIN HOUSING	1209351-15	1

FOR WIRE LENGTHS SEE WIRING TABLE

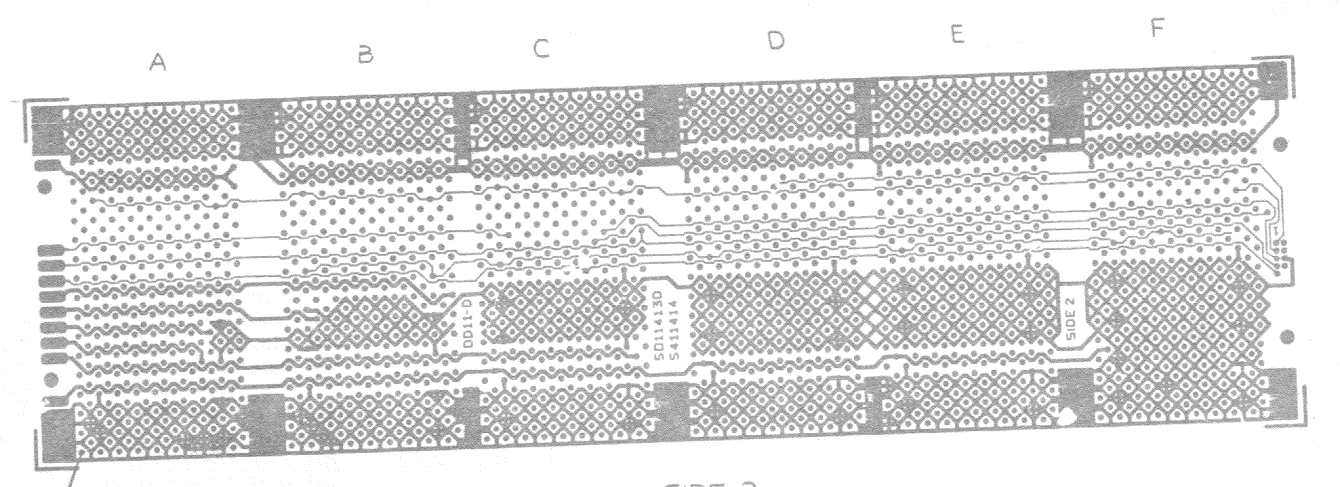
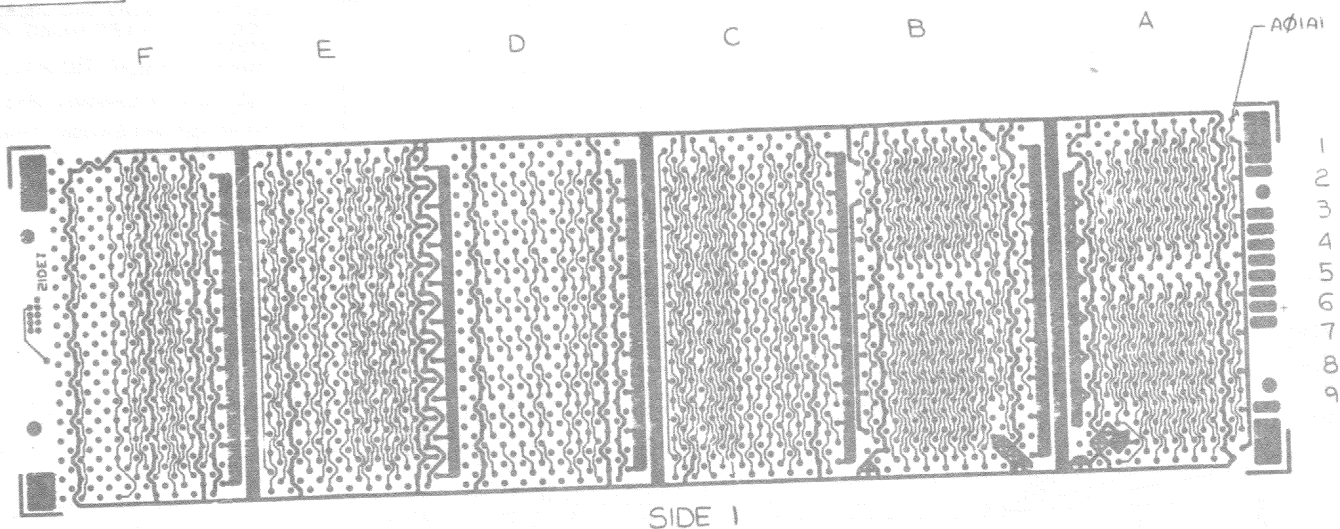
REV.	CHANGE NO.	DATE	BY	CHKD.
1	1	11/15/77	P. PORRECA	P. PORRECA
2	1	12/15/77	P. PORRECA	P. PORRECA

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES
HECK ONE	0 - 1.000
MEDIUM	1.000 - 4.000
PREFERRED	4.000 - 16.000

THIRD ANGLE PROJECTION	DRN: [Signature]	11/15/77	FIRST USED ON	DD11-DF, PF
REMOVE BURRS AND BREAK SHARP CORNERS	CHKD: [Signature]	12/15/77	TITLE	POWER HARNESS (BA11-F)
DO NOT SCALE DWG	ENGR: [Signature]	12/15/77	SIZE	D
MATERIAL SEE PARTS LIST	PROJ. ENG: [Signature]	12/15/77	NUMBER	701109-0-C
FINISH	NEXT HIGHER ASSY.		REV.	B

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NOTES:



IC TYPE	GND	-5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTS ARE STATED ABOVE		
IC PIN LOCATIONS		

REF	DESCRIPTION	PART NO	ITEM NO.
REF	AWT REV STATUS	A-WT-701158-0	5
REF	MODULE ECO HISTORY	B-MH-5411414-0-6	4
REF	ASSY/DRILLING HOLE LAYOUT	D-AH-5411414-0-5	3
REF	X-Y COORDINATE HOLE LOCATION	K-CO-5411414-0-4	2
I	ETCHED CIRCUIT BOARD	5011413	1

FIRST USED ON OPTION MODEL DD11-D

ETCH BOARD REV D

DRN	<i>Phallon</i>	DATE	5/16/75
CHKD	<i>D. Barry</i>	DATE	5/21/75
ENG	<i>R.T. Barry</i>	DATE	5/28/75
PROJ. ENG.	<i>R.T. Barry</i>	DATE	5/28/75
PROD.		DATE	

TITLE: **digital** CIRCUIT SCHEMATIC

NEXT HIGHER ASSY: C-IA-701157-0-0

SCALE: 1/1

SHEET 1 OF 1

SIZE CODE: DCS 5411414-0-1

NUMBER: 1

REV: D

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

SEMICONDUCTOR CONVERSION CHART



