

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

CUSTOMER PRINT SET				ELECTRICAL					CUSTOMER PRINT SET				MECHANICAL								
1				MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE	1				MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
X					1	A-PL-DD11-D-0		1	UNIT ASSY DD11-D							1	A-PL-DD11-D-0		1	UNIT ASSY DD11-D	
						D-MU-DD11-D-2		1	MODULE UTILIZATION												
X					2	C-AD-7011164-0-0		1	BACK PLANE ASSY DD11-DK							2	C-AD-7011164-0-0		1	BACK PLANE ASSY DD11-DK	
X					3	C-IA-7011158-0-0		1	WIRED ASSY							3	C-IA-7011158-0-0		1	WIRED ASSY	
						K-WL-DD11-D-1	A	1	WIRE LIST								D-IA-5512405-0-0		1	OVERLAY, WIRING	
						A-WT-7011158-0	REF	1	AWT REV STATUS								B-DC-5308753-0-0		1	DECAL 21 POINT (LTR)	
X					5	D-CS-5411414-0-1			CIRCUIT SCHEMATIC								A-DC-7411881-0-0		1	LABEL, AWT REV STATUS	
X					6	D-IA-7011108-0-0		1	POWER HARNESS (BALL-K, BALL-L)												
X					7	C-AD-7012306-0-0		1	BACK PLANE ASSY DD11-DF												
X					8	D-IA-7011109-0-0		1	POWER HARNESS (BALL-F, BALL-P)												
											X										
											X										

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-D
SHEET 3 OF 3
SIZE CODE: B DD
NUMBER: DD11-D
REV: C

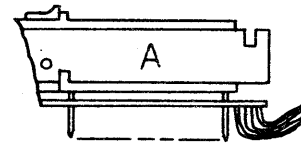
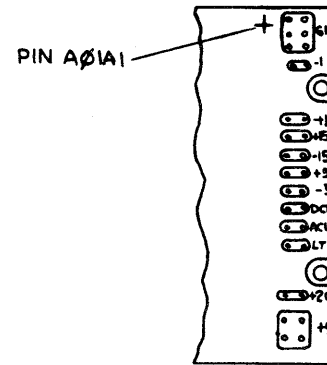
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WIRE TABLE

FROM			TO	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 DD11-DK'S USED WITH A BAI-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.
- BAI-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.



PIN A Ø1A1

SEE VIEW A

SLOT

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

B

REV.	CHANGE NO.	DATE	BY
A	701164-0001	10/15/75	R. BARRY
B	DD11D-00004	13 Oct. 76	D. Chiaman
C	DD11D-00006	13 JAN 76	R. Barry
D	DD11D-00006	6 MAY 77	D. Chiaman
		9 MAY 77	R. Barry

SEE NOTE 1

FIRST USED ON OPTION/MODEL			
DD11-DK			
DIMENSIONAL TOLERANCE			
DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED			
MILLIMETERS	INCHES	ANGLES	
X,XX ±0.10	.XXX ±.006	±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			
FINISH + +			

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 (BAI-K, BAI-L)	D-IA-701108-0-0	2
1	WIRED ASSY DD11-D	C-IA-701158-0-0	1

DRN	DATE	digital		
CHK'D	DATE			
ENG.	DATE			
PROJ. ENG.	DATE			
PROD.	DATE	TITLE		
		BACKPLANE ASS'Y (DD11-DK)		
NEXT HIGHER ASSY.		SIZE CODE	NUMBER	REV.
A-PL-DD11-D-0		C AD	701164-0-0	C
SCALE	SHEET 1 OF 1		DIST.	

REV. C
NUMBER C
SIZE CODE C
AD701164-0-0

A

D

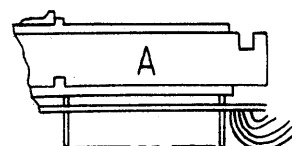
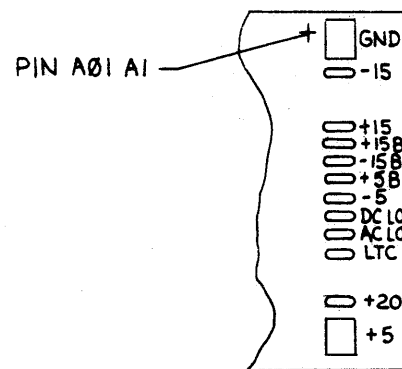
C

B

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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 LO				
BLK	P3-1		GND				
BRN	P3-2		LTC				
VIO	P3-3		DC LO				
RED	P2-4		+5V				
RED	P2-1	SOLDER	+5V				

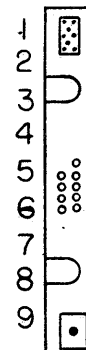


VIEW "A"

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



PIN AØI AI

SEE VIEW "A"

SEE NOTE 1

3
4

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

REV.	CHANGE NO.	DATE
A	0006	5 MAY 77
D. BAUGHN		
R. BARRY 9 MAY 77		

FIRST USED ON OPTION/MODEL		PARTS LIST	
DDII-DF		DRN. R. Beasley 12-18-75	DATE 12-18-75
DIMENSIONAL TOLERANCE		CHK'D. G. Barry 3-10-76	DATE 3-10-76
DIMENSIONS ARE <u>MILLIMETERS</u> UNLESS OTHERWISE SPECIFIED		ENG. Richard Barry 3-10-76	DATE 3-10-76
MILLIMETERS	INCHES	PROJ. ENG. Richard Barry 3-10-76	DATE 3-10-76
X,XX ±0.10	.XX ±.006	PROD. K. McQuinn 3-16-76	DATE 3-16-76
X,X ±0.5	.X ±.02		
X ±2	.X ±.1		
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	TITLE BACK PLANE ASSY (DDII-DF)	
MATERIAL SEE PARTS LIST	FINISH #	SIZE CODE C AD	NUMBER 7012306-0-0
		SCALE 1/1	REV. A
		SHEET 1 OF 1	DIST.

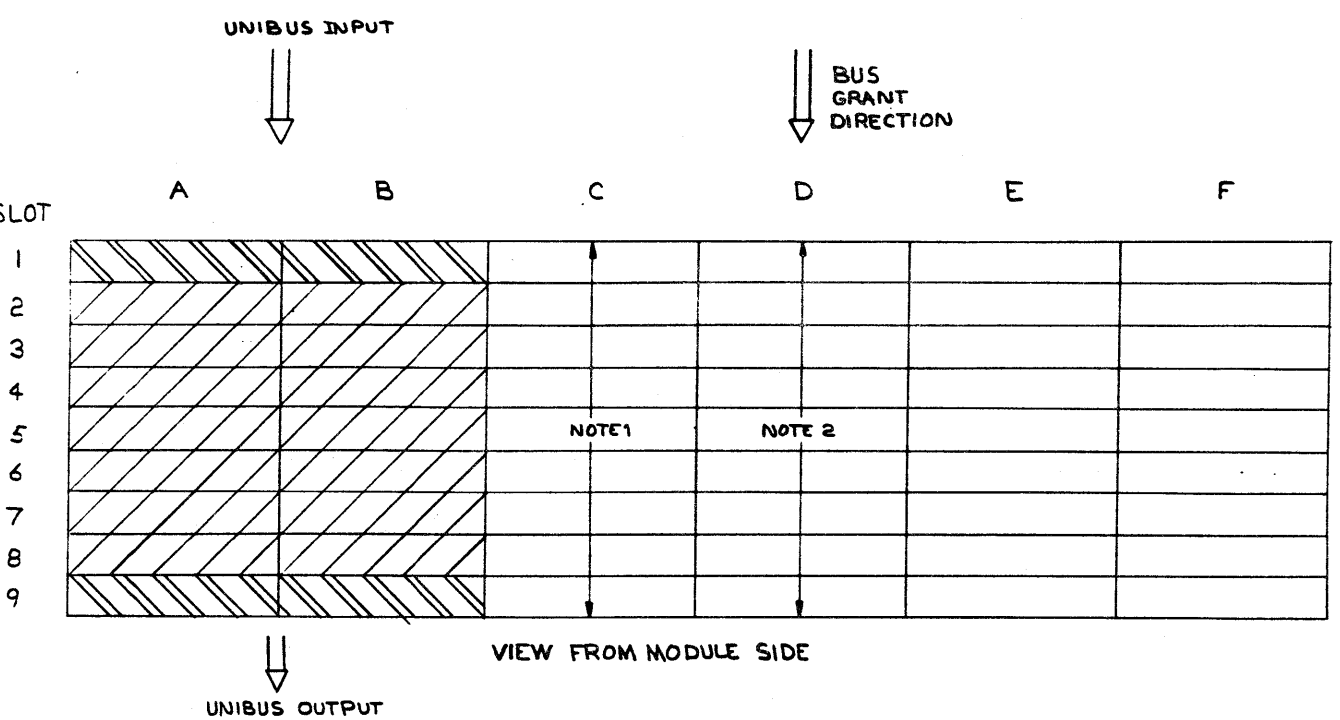
REV. A
NUMBER 7012306-0-0
SIZE CODE C AD

- NOTES:**
1. REMOVE CA1 TO CB1 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 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.

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SLOT 1 (A&B) IS EITHER THE BEGINNING OF THE UNIBUS (M7263 CPU MODULE) OR THE UNIBUS CABLE INPUT (EC11A)

SLOT 9 (A&B) IS EITHER THE TERMINATION OF THE UNIBUS OR THE UNIBUS OUTPUT CABLE (EC11A)



CABLE FROM KY11-LA OPERATORS CONSOLE, USED WITH (M7263) PDP1104 CPU MODULE ONLY, TERMINATES HERE.

STANDARD UNIBUS (SLOT 1-9)
 DUAL MODULES WHICH PLUG INTO STANDARD UNIBUS SLOTS ONLY:
 BC11A UNIBUS CABLE
 M9302 SACK/TERM (NOTES)
 M920 (NOTE 4)
 M930 (NOTE 5)
 M9202 (NOTE 4)

MODIFIED UNIBUS (SLOT 2-8)
 DUAL MODULES WHICH PLUG INTO THE MODIFIED UNIBUS ONLY:
 M9301 BOOT/TERM.
 M9306 TERM.
 M7850 PARITY CONT.

SMALL PERIPHERAL CONTROLLER (SLOT 1-9)
 ANY S.P.C. OPTION

HEX MODULE WITH MODIFIED UNIBUS SIGNALS (SLOTS 2-8)
 HEX MODULES THAT PLUG INTO MODIFIED UNIBUS ONLY:
 M7847 MOS MEMORY (MS11-EP-UP)
 MM11-BP, CP, DP OR YP CORE MEMORY

HEX MODULE WITH STANDARD UNIBUS SIGNALS (SLOT 1 ONLY)
 M7263 PDP1104 CPU MODULE

- 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 1E: ABOVE
 - 2.) THOSE PINNED TO TAKE SIGNALS FROM STANDARD SPC PINNING WITH THE EXCEPTION OF POWER FROM (A&B). 1E: SPECIAL OPTIONS

REV.	DATE	BY	CHKD.
1	10/20/75	B. BERRY	
2	11/10/75		

THIRD ANGLE PROJECTION	DRN. <i>g/a</i>	9/2/75	FIRST USED ON	digital
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D. <i>P. BERRY</i>	5/3/75	TITLE	MODULE UTILIZATION (DDII-D)
DO NOT SCALE DWG	ENG. <i>P. BERRY</i>	5/2/75	SIZE CODE	B-DD-DDII-D
MATERIAL	PROJ. ENG. <i>P. BERRY</i>	5/2/75	NUMBER	D MU DDII-D-2
FINISH	PROD. <i>A. K. RICHARDS</i>	1/6/75	REV.	A

REV. A
 NUMBER DDII-D-2
 SIZE CODE D MU

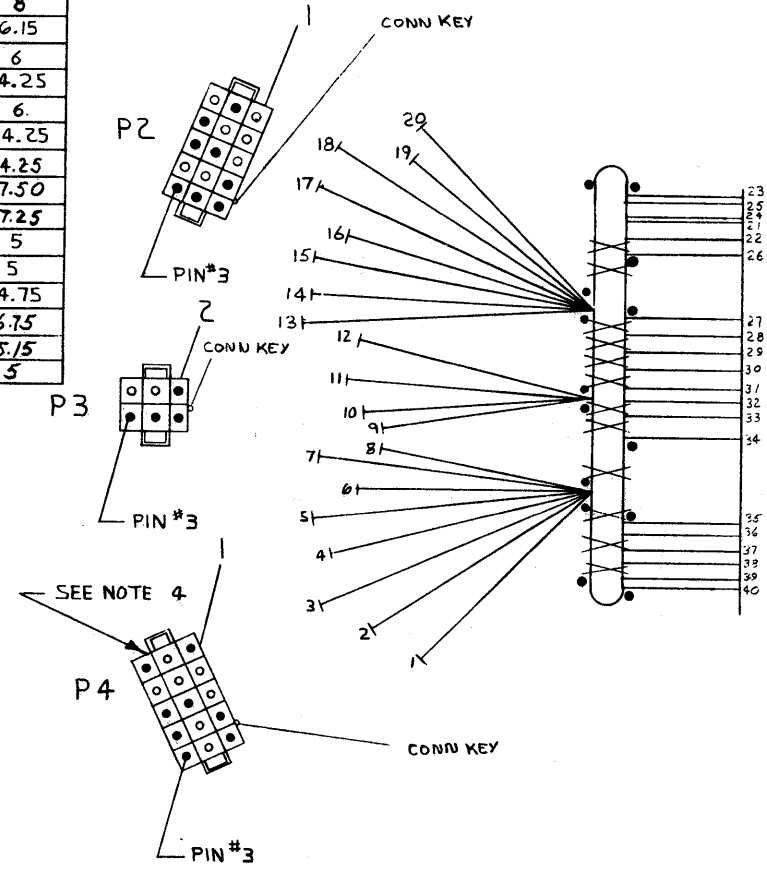
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0-0-801102 DIA 2

- NOTES:
1. USE TIE WRAPS (X) ITEMS AT BREAKOUT POINTS SHOWN
 2. DOT (•) INDICATES NAIL LOCATION FOR ASSY 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.

WIRING TABLE

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		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		P4-3		35		+20V	5
6	14	BLK	6	P4-9		22		GND	8
13	18	WHT	7	P4-6		28		+5B	6.15
14	18	GRN	8	P4-15		29		-15B	6
12	18	YEL	9	P3-4		33		ACLD	4.25
6	14	BLK	10	P3-1		23		GND	6
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	7.50
5	14	RED	14	P2-1		40		+5V	7.25
10	18	BRN	15	P2-14		31		-5V	5
6	14	BLK	16	P2-8		24		GND	5
8	18	GREY	17	P2-2		27		+15	4.75
7	14	ORN	18	P2-3		30		+20	6.75
6	14	BLK	19	P2-9		25		GND	5.15
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	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	9107360-88	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

REVISIONS

REV.	CHANGE NO.	DATE	BY	DESCRIPTION
1	701108-0001	A	D. BARRY	ISSUE FOR MANUFACTURE
2	701108-0002	B	P. PORRECA	REVISED FOR SHINK TUBING

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	NOMINAL DIMENSION RANGE INCHES			
	OVER 0 TO 1.0	OVER 1.0 TO 3.0	OVER 3.0 TO 30.0	OVER 30.0 TO 100.0
ANGLES ±0° 30'	±0.010	±0.015	±0.020	±0.030
SURFACE QUALITY IN	16	15	14	13
QUANTITY & VARIATION	MEDIUM ±0.04	±0.008	±0.012	±0.018
MICROINCHES	PREFERRED ±0.012	±0.018	±0.025	±0.04

DRN. *John N. Long* 8/11/75 FIRST USED ON DD11-D

CHK'D. *G. Ziegler* 5/21/75

ENG. *R. Rangan*

PRJ. ENG. *R. Rangan* 5/28/75

PROD. *R.K. Rangan* 6/1/75

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

C-AD-701164-0-0 SIZE CODE D IA 701108-0-0 NUMBER 1 REV. B

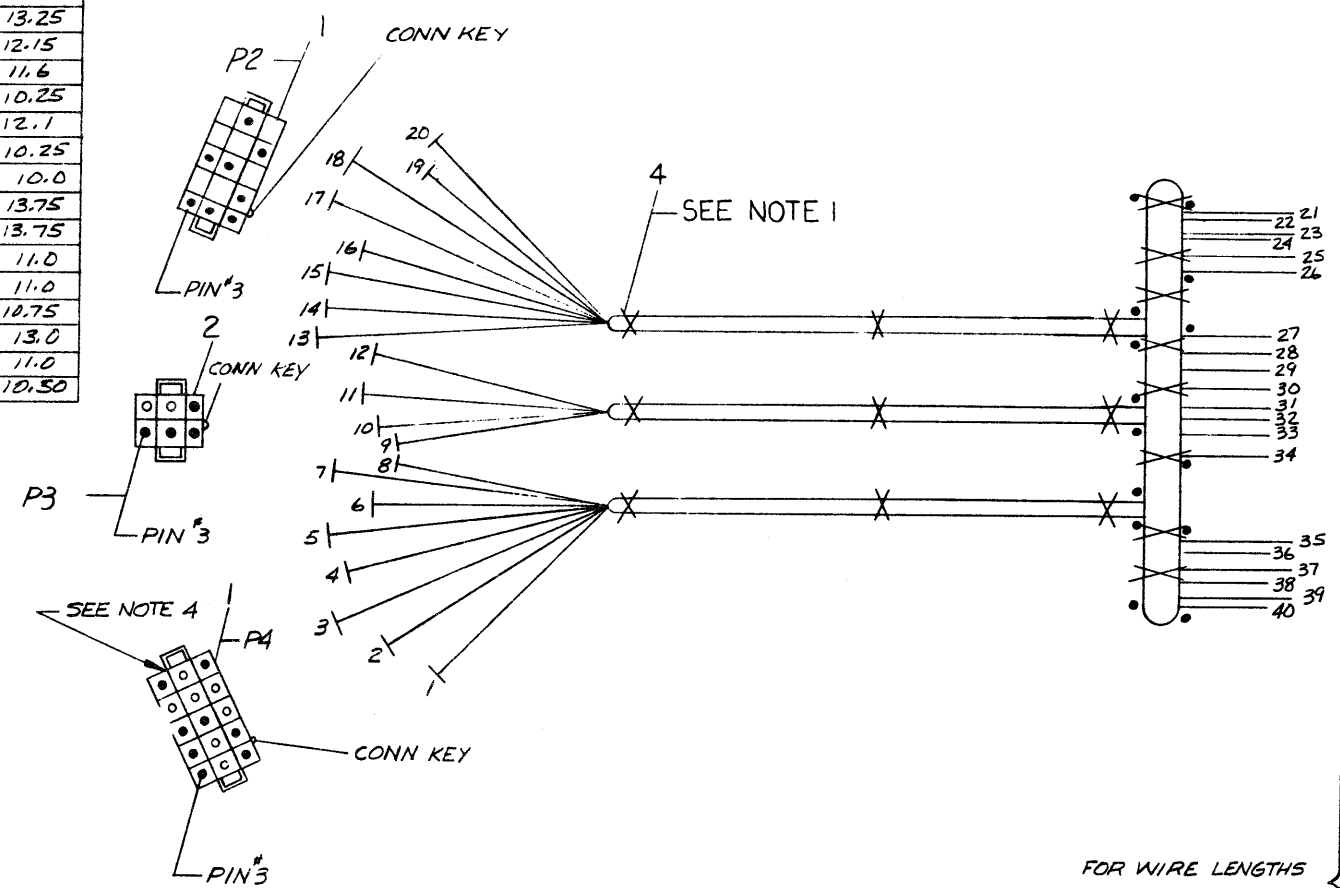
SHEET OF 1 DIST.

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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 ± .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.

WIRING TABLE

ITEM NO	DESCRIPTION	FROM			TO		SIGNAL	LENGTH	
		AWG	COLOR	POINT	POINT	CONNECTION			
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	16 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		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	P2-14		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



ITEM NO	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 (VID)	9107360-77	11
AIR	WIRE #18 AWG (BLU)	9107360-11	10
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

DO NOT REDUCE SCALE 6 IN FOR MANUFACTURING PURPOSES ONLY

REV.	DATE	BY	CHK'D
1	12/11/75	D. BARRY	
2	12/11/75	P. PORRECA	

QUANTITY & VARIATION	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 (CHECK ONE)																																			
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