

**AD01-D
analog-to-digital
conversion
subsystem
engineering drawings**

1st Printing June 1971

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DIGITAL	COMPUTER LAB
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AD01-D Subsystem

Drawing Number	Title
A-ML-AD01-DA	10 Bit ADC with Switch Gain (AD01-DA)
D-UA-AD01-0	10 Bit ADC with Switched Gain
A-PL-AD01-D-0	10 Bit ADC with Switched Gain (Parts List)
D-DI-AD01-D-1	Drawing Index List (AD01-D)
D-AD-7006919-0-0	Wired Assembly (AD01-D)
A-PL-7006919-0-0	Wired Assembly (Parts List) (AD01-D)
D-MU-AD01-D-02	Module Utilization (AD01-D)
A-PL-AD01-D-02	Module Utilization (Parts List) (AD01-D)
D-BS-AD01-D-03	Multiplexer
D-BS-AD01-D-04	Interface and CSR
D-BS-AD01-D-05	A/D Converter
D-IC-AD01-D-06	Analog Input Connectors
D-IC-AD01-D-09	Bus Connector
K-WL-AD01-D-0 (Complete)	Wire List (AD01-D)
A-AL-AD01-D-8	Accessory List
A-SP-AD01-D-10	Engineering Specifications
A-SP-AD01-D-12	Acceptance Procedure
A-ML-AH04-0	Sample and Hold Option AH04
A-PL-AH04-0-0	Sample and Hold (Parts List)
C-CS-A405-0-1	Sample and Hold
A-ML-AH05-0	One Bit Extender for AD01
A-PL-AH05-0-0	One Bit Extender for AD01 (Parts List)
D-CS-A862-0-1	11 Bit A/D Converter with Sign
D-CS-A812-0-1	A/D Converter
C-UA-H727-A-0	H727-A Power Supply, 115V
C-UA-H727-B-0	H727-B Power Supply, 230V
D-UA-H716-B-0	H716-B Power Supply, 115V
D-UA-H716-D-0	H716-D Power Supply, 230V

MASTER DRAWING LIST

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DRA 131

Dec 16--(325)--1048--N471

PRINT SET				DWG. NO.	REV. NO. OF LET. SHEETS	TITLE	OPTION NO.
AD01-A	AD01-D	AD01-EA	AD01-FB				
X	-	-	-	D-DI-AD01-A-1	F	1	DRAWING INDEX LIST
X	-	-	-	D-UA-AD01-A-0	C	1	10 BIT ADC WITH 32 CH MUX
X	-	-	-	A-PL-AD01-A-0	C	2	10 BIT ADC WITH 32 CH MUX (PL)
X	-	-	-	D-AD-7006587-0-0	D	1	WIRED ASSY
X	-	-	-	A-PL-7006587-0-0	D	1	WIRED ASSY (PL)
X	-	-	-	D-BS-AD01-AN-01	D	3	A/D CONVERTER
X	-	-	-	D-BS-AD01-AN-02	A	1	MULTIPLER
X	-	-	-	D-BS-AD01-AP-01	E	3	A/D CONVERTER
X	-	-	-	D-BS-AD01-AP-02	A	1	MULTIPLER
X	-	-	-	D-MU-AD01-AN-05	D	1	MODULE UTILIZATION
X	-	-	-	A-PL-AD01-AN-05	D	1	MODULE UTILIZATION (PL)
X	-	-	-	D-MU-AD01-AP-05	H	1	MODULE UTILIZATION
X	-	-	-	A-PL-AD01-AP-05	H	1	MODULE UTILIZATION (PL)
X	-	-	-	D-IC-AD01-AN-03		1	ANALOG INPUT CONNECTORS
X	-	-	-	D-IC-AD01-AN-04	B	1	I/O CONNECTORS
X	-	-	-	D-IC-AD01-AP-03	B	1	ANALOG INPUT CONNECTORS
X	-	-	-	D-IC-AD01-AP-04	A	1	I/O CONNECTORS
X	-	-	-	A-SP-AD01-A-05	D	23	AD01-AN/AP ENG. SPECIFICATION
X	-	-	-	A-SP-AD01-A-06	A	20	AD01-AN/AP CALIBRATION PROCEDURE
X	-	-	-	K-WL-AD01-A-02	H	1	WIRE LIST
X	-	-	-	A-WL-AD01-A-03	D	1	POWER WIRING LIST
X	-	-	-	A-WL-AD01-A-04	B	1	OPTION JUMPER LIST

TITLE

10 BIT ADC

SHEET 2 OF 4

NUMBER
AD01-0

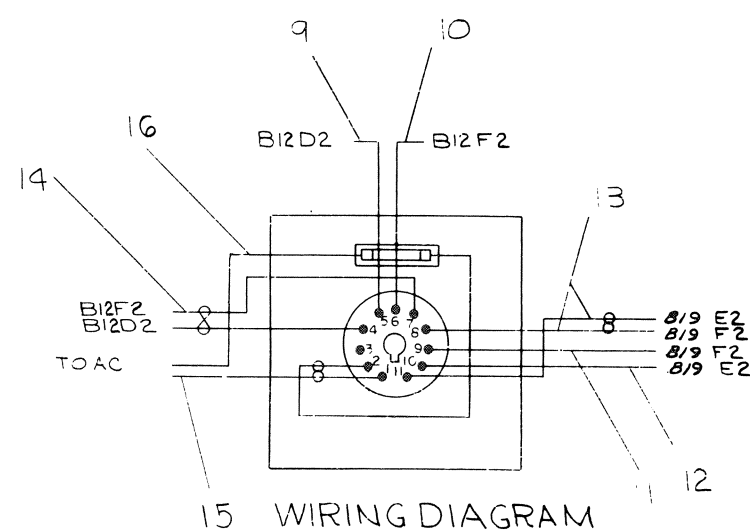
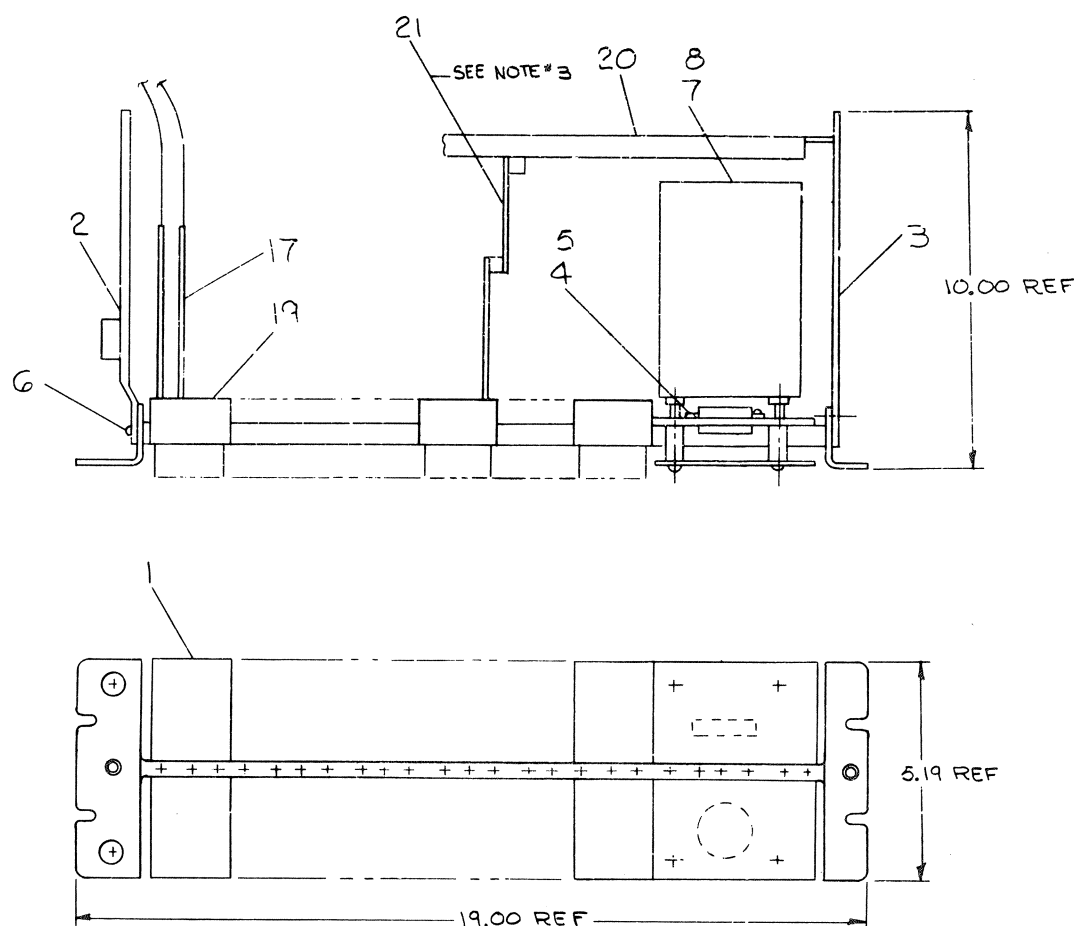
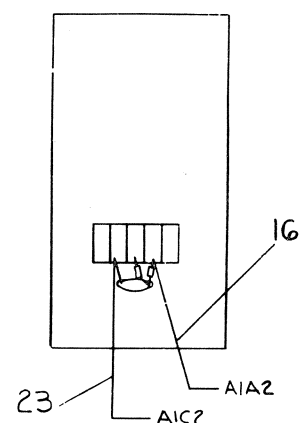
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REV. **K**

DRA 132

DEC 16--(325)-1048-1-N471

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LEGEND	
NUMBER	VARIATION
AD01-DA	110V INPUT
AD01-DE	??OV INPUT

NOTES

1. FOR DWG INDEX LIST REFER TO DWG # D-DI-AD01-D-1.
2. ITEM #18 & #22 NOT SHOWN (#18 USED WITH AD01-DB) (#22 USED WITH AD01-DA)
3. IF OPTIONAL MODULES ARE USED ITEM #21 WILL BE REQ'D REFER TO D-MU-AD01-D-02.

REVIEWS	
CHK	CHANGE NO.
EV	ADD D-00001 A
A. T. Jones 10/21/70	
P. SEVERINO	
C. G. Jones 10/21/70	

FIRST USED ON OPTION/MODEL
PDP-11

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED

DIMENSION IN INCHES

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± 0°30' ✓

FINAL SURFACE QUALITY

REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL

FINISH

QTY.	DESCRIPTION		PART NO.	REV.
PARTS LIST				
DRAWN <i>J. J. J.</i>	DATE <i>6/1/70</i>	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
CHECK'D <i>M. J.</i>	DATE <i>7/3/70</i>	TITLE		
ENGR. <i>J. J. J.</i>	DATE <i>7/3/70</i>	10 BIT ADC WITH SWITCHED GAIN		
PROD. ENGR. <i>J. J. J.</i>	DATE <i>7/3/70</i>			
PROD. <i>J. J. J.</i>	DATE <i>7/3/70</i>			
NEXT HIGHER ASSY A-ML-AD01-DA				
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SHEET	OF	DUA AD01-D-0		A
		DATE		

PARTS LIST

DATE 6/9/70

SECTION

DATE 6/9/70

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DESCRIPTION

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TITLE 10 BIT ADC WITH SWITCHED GAIN	ASSY NO. D-UA-AD01-D-0		SIZE CODE A PL	NUMBER AD01-D-0	REV. A	ECO NO. AD01
	SHEET 1 OF 2		DIST. C			0000 1

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PARTS LIST

DATE 8/12/70

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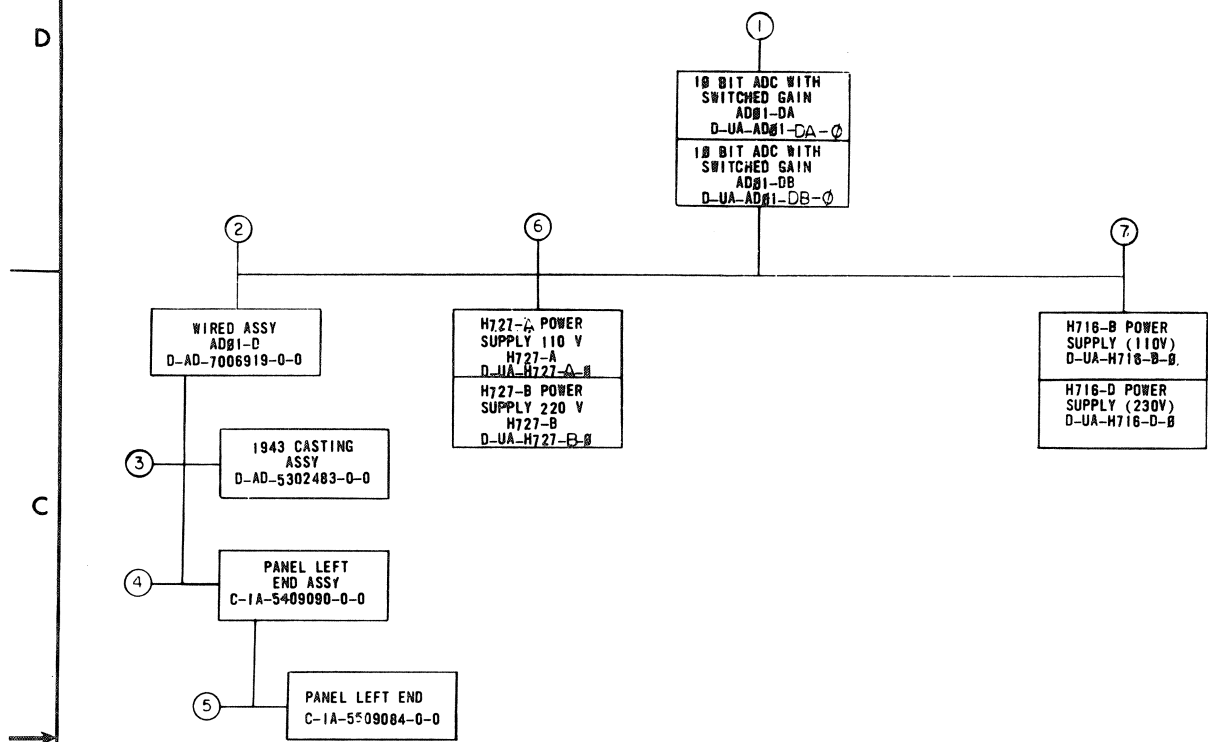
ITEM DWG NO / PART NO

DESCRIPTION

TITLE	ASSY NO.	SIZE CODE	NUMBER	REV.	ECONO.
1Ø BIT ADC WITH SWITCHED GAIN	D-UA-ADØ1-D-Ø	A	ADØ1-D-Ø	A	
	SHEET 2, OF 2	DIST.			

DRA 110

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MECHANICAL				ELECTRICAL			
FIND NO.	DESCRIPTION	PART NO.	DEPT USAGE	FIND NO.	DESCRIPTION	PART NO.	DEPT USAGE
1.	18 BIT ADC WITH SWITCHED GAIN (AD01-DA) 18 BIT ADC WITH SWITCHED GAIN (AD01-DA) (PL) 18 BIT ADC WITH SWITCHED GAIN (AD01-DB) 18 BIT ADC WITH SWITCHED GAIN (AD01-DB) (PL) PANEL, RIGHT END BC11A CABLE (LGTH. SPEC BY ENG) MODULE UTILIZATION (PL)	D-UA-AD01-DA-0 A-PL-AD01-DA-0 D-UA-AD01-DB-0 A-PL-AD01-DB-0 C-MD-5308897-0-0 C-MD-5308898-0-0 D-UA-BC11A-B-0 A-PL-AD01-D-02		1.	18 BIT ADC 18 BIT ADC WITH SWITCHED GAIN AD01-DA MULTIPLEXER INTERFACE & CSR A/D CONVERTER ANALOG INPUT CONNECTORS WIRE LIST AD01-D MODULE UTILIZATION MODULE UTILIZATION (PL) BUS CONNECTOR ACCESSORY LIST ENG SPECS CALIBRATION PROCEDURE ACCEPTANCE PROCEDURE ACCESSORY LIST SOFTWARE LIST	A-ML-AD01-0 A-ML-AD01-0 D-BS-AD01-D-03 D-BS-AD01-D-04 D-BS-AD01-D-05 D-IC-AD01-D-06 K-UL-AD01-D-07 D-MU-AD01-D-02 A-PL-AD01-D-02 D-IC-AD01-D-09 A-AL-AD01-D-08 A-SPAD01-D-10 A-SPAD01-D-11 A-SPAD01-D-12 A-AL-AL01-D-13 A-AL-AL01-D-14	
2.	WIRED ASSY (AD01-D) WIRED ASSY (AD01-D) (PL) 208 PIN BLOCK TYPE H883 21 POINT DECALS "A" 21 POINT DECALS "B"	D-AD-7006919-0-0 A-PL-7006919-0-0 E-SC-1205348-0-0 B-DC-5308753-0-2 B-DC-5308753-0-4		2.	WIRED ASSY (AD01-D) WIRED ASSY (AD01-D) (PL) H727-A POWER SUPPLY 110 V CIRCUIT SCHEMATIC H727-B POWER SUPPLY 220 V CIRCUIT SCHEMATIC	A-AD-7006919-0-0 A-PL-7006919-0-0 CS-H727-A-1 CS-H727-B-1	
3.	1943 CASTING ASSY 1943 CASTING ASSY (PL)	D-AD-5302483-0-0 A-PL-5302483-0-0		7.	H716-B POWER SUPPLY CIRCUIT SCHEMATIC H716-D POWER SUPPLY CIRCUIT SCHEMATIC	C-CS-H716-B-1 C-CS-H716-D-1	
4.	PANEL LEFT END ASSY	C-1A-5409084-0-0		1.	ANALOG INPUTS CONNECTORS (LABII)	D-IC-AD01-D-15	
5.	PANEL LEFT END POWER DECAL	C-1A-5509084-0-0 C-1A-5509084-0-1					
6.	H727-A POWER SUPPLY 110V H727-A POWER SUPPLY 110 V (PL) H727-B POWER SUPPLY 220 V H727-B POWER SUPPLY 220 V (PL)	D-UA-H727-A-0 A-PL-H727-A-0 D-UA-H727-B-0 A-PL-H727-B-0					
7.	H716-B POWER SUPPLY (110V) H716-B POWER SUPPLY (PL) H716-D POWER SUPPLY (230V) H716-D POWER SUPPLY (PL)	D-UA-H716-B-0 A-PL-H716-B-0 D-UA-H716-D-0 A-PL-H716-D-0					

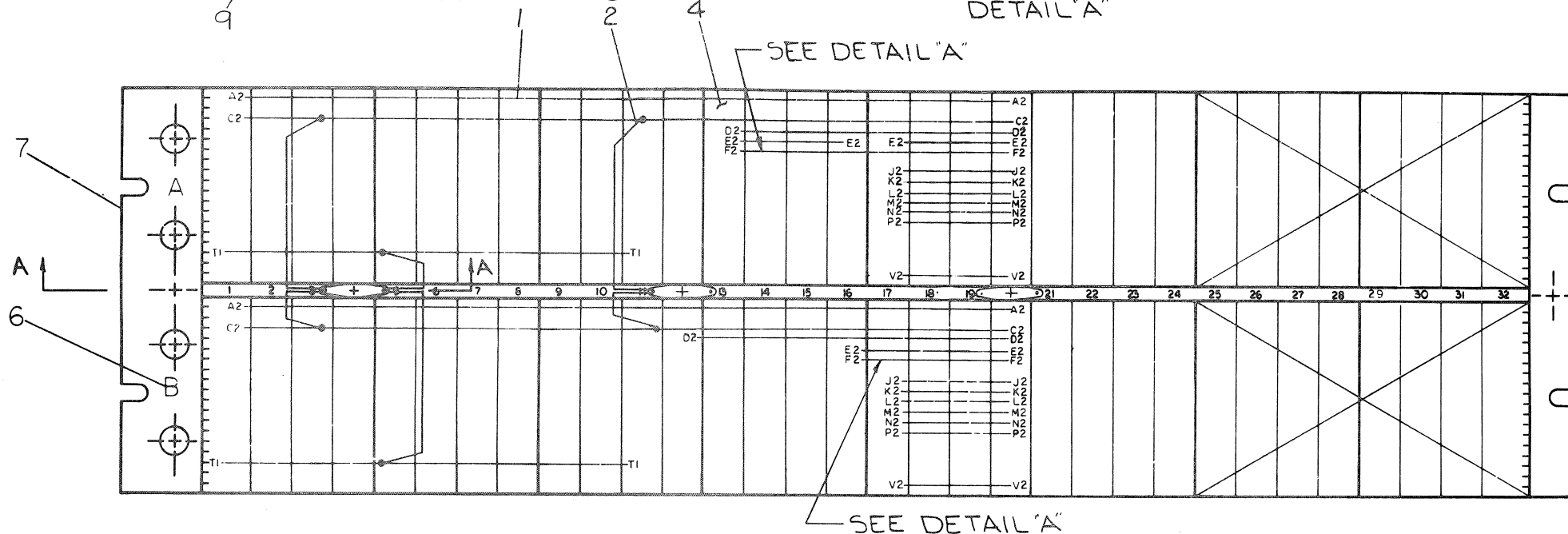
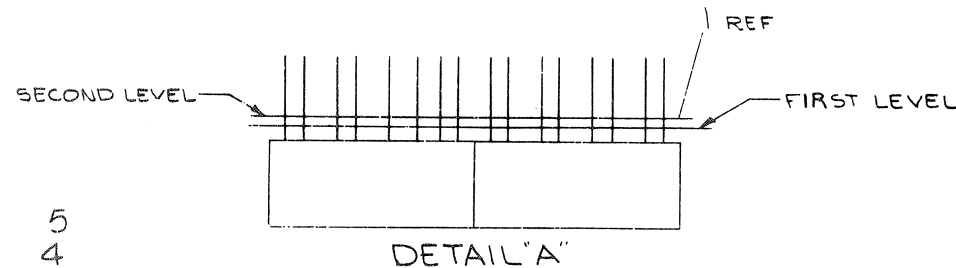
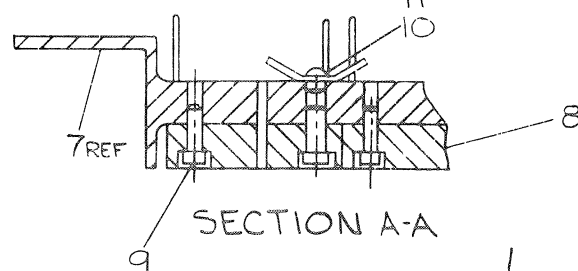
REVIEWS		
CHK	CHANGE NO.	REV.
F.V.	AD01D-00001	A
C. Quinn 9-24-71		
B. SEVERINO		
C. Quinn 9-24-71		
AD01D-00003		
C. Quinn 9-24-71		
R. SEVERINO		
C. Quinn 9-24-71		
AD01D-00004		
C. Quinn 9-24-71		
SEVERINO		
C. Quinn 9-24-71		
MISC-00008		
C. Quinn 9-24-71		
VARIANTAN		
C. Quinn 9-24-71		
AD01D-00006		
C. Quinn 9-24-71		
P. SEVERINO		
C. Quinn 9-24-71		
AD01D-00007		
C. Quinn 10-5-71		
P. SEVERINO		
C. Quinn 10-5-71		
AD01D-00008		
C. Quinn 10-29-71		
F. STRAIGHT		
C. Quinn 11-1-71		

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0-0-616900-01

NOTES:

1. CONNECTIONS ON ITEM NUMBER 1 & 2 TO BE LOCATED ~~AND SHOWN~~ AT MINIMUM PRACTICAL HEIGHT ABOVE BLOCKS.
2. ALL CONNECTOR BLOCKS TO BE GROUNDED TO GROUND LUGS AS SHOWN, 2 PLACES.
3. JUMPER GROUND BUSSING AS SHOWN, 8 PLACES.
2. USE YELLOW WIRE (ITEM #4) FOR MACHINE WRAPPED AND BLUE WIRE (ITEM #5) FOR HAND WRAPPED WIRING.

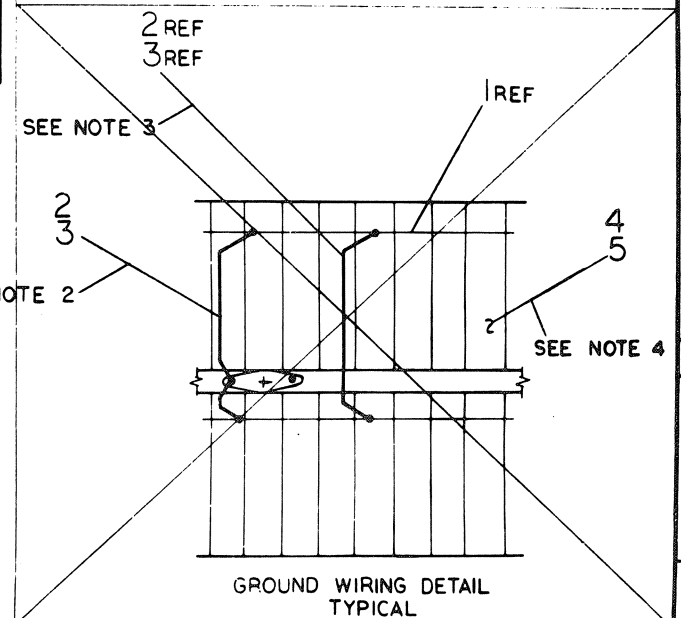


WIRE LIST

ITEM NO	DESCRIPTION	SIGNAL	FROM PIN CONNECTION	TO PIN CONNECTION	REMARKS
13	24 RED	+5V	A06A2	B06A2	WIRE WRAP
13	24 RED	+5V	A06A2	A06A2	
14	24 BLK	GND	A06C2	A06C2	
14	24 BLK	GND	A06C2	B06C2	
16	24 YEL	+15	B12D2	A13D2	
16	24 YEL		B12D2	A24V2	
17	24 GRN	-20V	B19E2	A19E2	
17	24 GRN		B20E2	A20E2	
15	24 ORN	-15V	A24S2	A16E2	
15	24 ORN		A24S2	B12E2	WIRE WRAP
18	22 BRN	GND	B12F2	A24T2	SOLDER
18	22 BRN	GND	B12F2	B12C2	
18	22 BRN	GND	B12F2	B16F2	
18	22 BRN	GND	A13F2	B16F2	SOLDER

OPTION WIRE LIST

ITEM NO	DESCRIPTION	SIGNAL	FROM PIN CONNECTION	TO PIN CONNECTION	REMARKS
5	30 BLU		B08P2	B08A2	
			A15S2	A15V2	
			A05D1	A05C2	
			A09A1	A08D1	
			A09C1	A08E1	
			A09D1	A08F1	
			A09F1	A08H1	
			A09E2	A08J1	
			A09J1	A08K1	
			A09H2	A08L1	
			A09L1	A08M1	
			A09K2	A08N1	
5	30 BLU		A09N1	A08P1	
5	30 BLU		A22A2	A22C2	



FIRST USED ON OPTION/MODEL AD01-D		QTY.	DESCRIPTION	PART NO.	ITEM NO.
DO NOT SCALE DRAWING		PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES + .005 ± 1/64 ± 0°30' FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS		DRN. DATE 6/10/70	DATE 6/10/70	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
MATERIAL		NEXT HIGHER ASSY D-0A-AD01-D-0		TITLE WIRED ASS'Y (AD01-D)	
FINISH		SCALE NONE		NUMBER D AD 7006919-0-0	
SHEET		OF		REV. A	

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS					QUANTITY / VARIATION														
PARTS LIST																			
MADE BY G. FLANDERS			CHECKED D. HEALY		SECTION														
DATE 6/9/70			DATE 6/16/70		1														
ENG <i>Paul J. Sever</i>			PROD <i>A. Hirsch</i>		ISSUED SECT.														
DATE <i>8/25/70</i>			DATE 8-25-70		1														
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION																	
1	1205541	BUS STRIP				A/R													
2	9107560-01	#22 AWG BUS WIRE				A/R													
3	9107265-09	#22 TUBING TEFLON (WHT)				A/R													
4	91057 40-44	#30 AWG SOLID KYNAR WIRE (YEL)				A/R													
5	9105740-66	#30 AWG SOLID KYNAR WIRE (BLU)				A/R													
6	B-DC-5308753-0-2	21 POINT DECALS, A				A/R													
6	B-DC-5308753-0-4	21 POINT DECALS, B				A/R													
7	D-AD-5302483-0-0	1943 CASTING ASSY				1													
8	E-SC-1205348-0-0	288 PIN BLOCK TYPE H8Ø3				6													
9	9006210	SCR PH HD, FIL #8-32 x 5/8				12													
10	9006035-1	SCR PHL HD PAN #8-32 x 1/4 LG				3													
11	9006634	WASHER INT TOOTH LOCK #8				3													
12	9007597	TERM #2116-08-00 SHAKEPROOF				3													
13	9107450-22	#24 AWG STRD TEF INS WIRE (RED)				A/R													
14	9107450-00	#24 AWG STRD TEF INS WIRE (BLK)				A/R													
15	9107450-33	#24 AWG STRD TEF INS WIRE (ORN)				A/R													
16	9107450-44	#24 AWG STRD TEF INS WIRE (YEL)				A/R													
17	9107450-55	#24 AWG STRD TEF INS WIRE (GRN)				A/R													
18	9107420-11	#22 AWG STRD TEF INS WIRE (BRN)				A/R													
TITLE			ASSY NO.		SIZE	CODE	NUMBER				REV.	ECO NO.							
WIRED ASSY ADØ1-D			D-AD-7006919-0-0		A	PL	7006919-0-0				A	ADØ10-00003							
			SHEET 1 OF 1		DIST.														

DEC FORM NO.
DRA 110

PARTS LIST

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION
	M105	ADDRESS SELECTOR M105
	M784	UNIBUS RECEIVERS M784
	M783	UNIBUS DRIVERS M783
	M206	SIX FLIP FLOPS M206
	M113	10-2 INPUT NAND GATES M113
	M111	INVERTER M111
	G736	REQUEST JUMPER
	A812	10 BIT ADC A812
	M302	DUAL DELAY MULTIVIBRATOR M302
	A220	SELECTABLE GAIN BUFF. AMP. A220
	A124	FOUR INPUT MULTIPLEX. SW. A124
	M908	CONNECTOR MODULE M908
	M782	INTERUPT CONTROL M782
	M785	UNIBUS TRANSCEIVERS M785
	A708	DUAL VOLT. REGULATOR A708
	M112	NOR GAT M112
	M617	6-4 INPUT MOR BUFFERS M617
	M161	TO OCTAL/DECIMAL DECODER M161
	M501	SCMITT TRIGGER
*	A405	SAMPLE & HOLD
	5408778-0-0	PRIORITY JUMPER USED ON G736
*	A862	10 BIT & SIGN ADC

QUANTITY / VARIATION

AD01-I)
* OPTIONAL

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECONO.
MODULE UTILIZATION LIST	D-MU-AD01-D-02	A	PL	-AD01-D-02	B	ADDID-00004
SHEET 1 OF 1	DIST.					

DEC FORM NO.
DRA 110