

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

X					
---	--	--	--	--	--

SEQUENCE						SEQUENCE
D-CS-M8342-0-1						PARALLEL CONTROL
D-1A-7008859-0-0						INTERFACE CABLE CENTRONICS CONTROL
A-AL-LS8-E-1						ACCESSORY LIST
A-PL-LS8-E-0						PARALLEL CONTROL
A-PL-LS01-E-0						CENTRONICS PRINTER
A-SP-LS8-E-2						ENGINEERING SPECIFICATION
 A-SP-LS8-E-4						 ACCPTANCE PROCEDURE

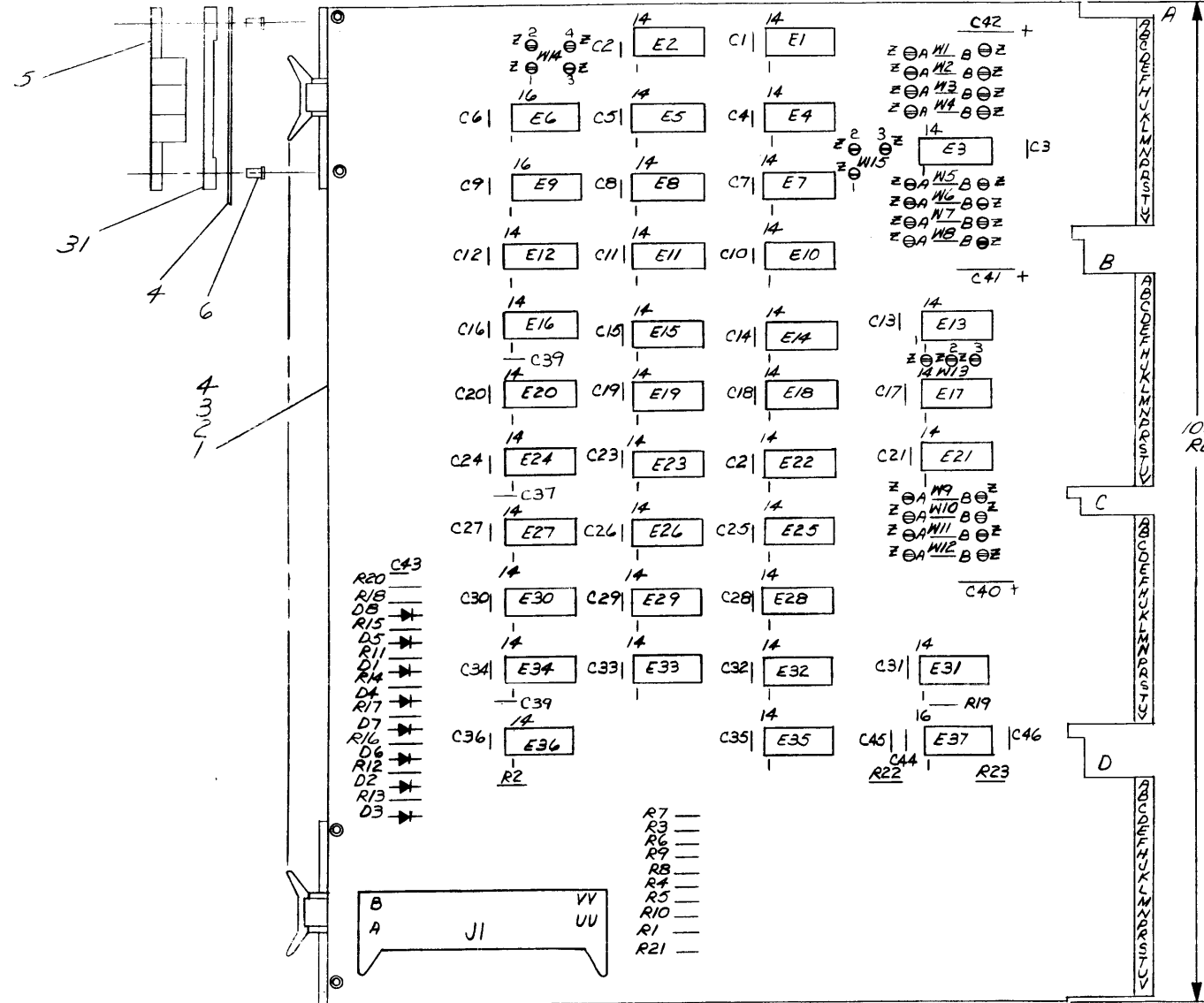
UNIT VARIATIONS		PRINT SET TYPE				
VARIATION	TITLE					
LS8-EA	CENTRONICS PRINTER (117V 60HZ) CONTROL	X				
LS8-EB	CENTRONICS PRINTER (234V 50 HZ) CONTROL	X				

REVISIONS	CHG. NO.	REV	DATE								

CUSTOMER PRINT SET					ELECTRICAL					CUSTOMER PRINT SET					MECHANICAL									
					MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.						MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.	
X						1	A-PL-LS8-E-0		1	PARALLEL CONTROL							1	A-PL-LS8-E-0			1	PARALLEL CONTROL		
X							A-AL-LS8-E-1		1	ACCESSORY LIST								D-1A-7008859-0-0			1	INTERFACE CABLE CENTRONICE		
X							A-SP-LS8-E-2		9	ENGINEERING SPECIFICATION													CONTROL	
							A-SP-LS8-E-3		2	TEST PROCEDURE														
X							A-SP-LS8-E-4		3	ACCEPTANCE PROCEDURE							2	D-CS-M8342-0-1	*		2	PARALLEL CONTROL		
							A-SP-LS8-E-5		6	INCOMING INSPECTION								K-CO-M8342-0-4			1	X-Y COORDINATE HOLE LOCATION		
X							D-1A-7008859-0-0		1	INTERFACE CABLE CENTRONICS CONTROL								D-AH-M8342-0-5			1	ASSY DRILLING HOLE LAYOUT		
																		B-MH-M8342-0-6			1	MODULE ECO HISTORY		
X						2	D-CS-M8342-0-1	*	2	PARALLEL CONTROL							3	A-PL-LSOI-E-0			1	CENTRONICS PRINTER		
							K-CO-M8342-0-4		1	X-Y COORDINATE HOLE LOCATION														
							D-AH-M8342-0-5		1	ASSY/DRILLING HOLE LAYOUT														
							B-MH-M8342-0-6		1	MODULE ECO HISTORY														
							B-SP-M8342-0-7		3	MODULE TEST PROCEDURE														
X						3	A-PL-LSOI-E-0		1	CENTRONICS PRINTER														

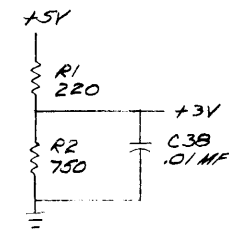
This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

NOTES:



NOTE 1

JUMPER CONFIGURATION (INSERT)		
	LS8E	LC8E
W13	1-3	1-2
W14	1-4	1-2
	2-3	3-4
W15	1-3	1-2

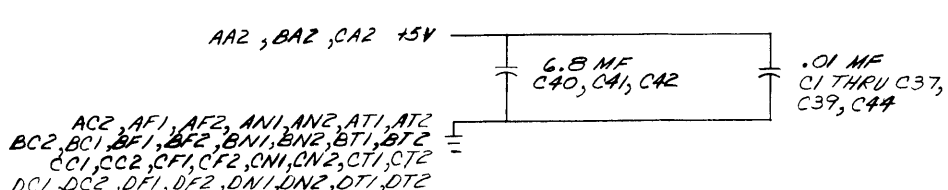


QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
4		SPACER (CABLE CLAMP)	1202704	31
2	C45, C46	CAP 330 PF 100V 5%	1000023	32
1	C43	CAP 470 PF 100V 5% DM	1000024	31
3	C40, C41, C42	CAP 6.8 MF 35V 20% TANT	1000067	30
40	C1-C39, C44	CAP .01 MF 100V 20% DISC	1001610	29
8	D1-D8	DIODE 664	1100114	28
2	R22, R23	RES 5.6K 1/4W 5%	1301874	27
1	R2	RES 750 1/4W 5%	1301401	26
1	R19	RES 1K 1/4W 5%	1300365	25
9	R11-R18, R20	RES 330 1/4W 5%	1300295	24
10	R4, R3-R10, R21	RES 220 1/4W 5%	1300271	23
9	E10, E12, E16, E20, E24, E27, E30, E34, E36	IC DEC 7474	1905347	22
3	E5, E8, E25	IC DEC 7400	1905575	21
2	E23, E29	IC DEC 7440	1905579	20
1	E15	IC DEC 7450	1905580	19
2	E4, E7	IC DEC 7402	1909004	18
1	E19	IC DEC 74H00	1909056	17
1	E11	IC DEC 7404	1909686	16
4	E14, E17, E18, E22	IC DEC 97401	1909973	15
2	E26, E33	IC DEC 7417	1909929	14
2	E6, E9	IC DEC 7442	1910046	13
2	E1, E13	IC DEC 5314	1910391	12
5	E3, E21, E28, E32, E35	IC DEC 5380	1910392	11
2	E2, E31	IC DEC 5384	1910394	10
1	E37	IC DEC 74123	1910436	9
1	U1	CONN, RIGHT, ANGLE HEADER	1209941	8
34		SPLIT LUGS	9006735	7
8		EYELET	9006750	6
4		HANDLE, FLIP-CHIP, MAGENTA	9008337-06	5
1		ETCHED CIRCUIT BOARD	3010040	4
		MODULE ECO HISTORY	B-MH-MB342-06	3
		ASSY/DRILLING HOLE LAYOUT	D-MH-MB342-05	2
		X-Y COORDINATE HOLE LOCATION	K-CO-MB342-04	1

IC TYPE	GND	+5V
IC DEC 74123	B	16
IC DEC 7442	B	16

GND AND 5V ARE USUALLY PIN 1 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.

IC PIN LOCATIONS



FIRST USED ON OPTION MODEL
LS8-E

ETCH BOARD REV A

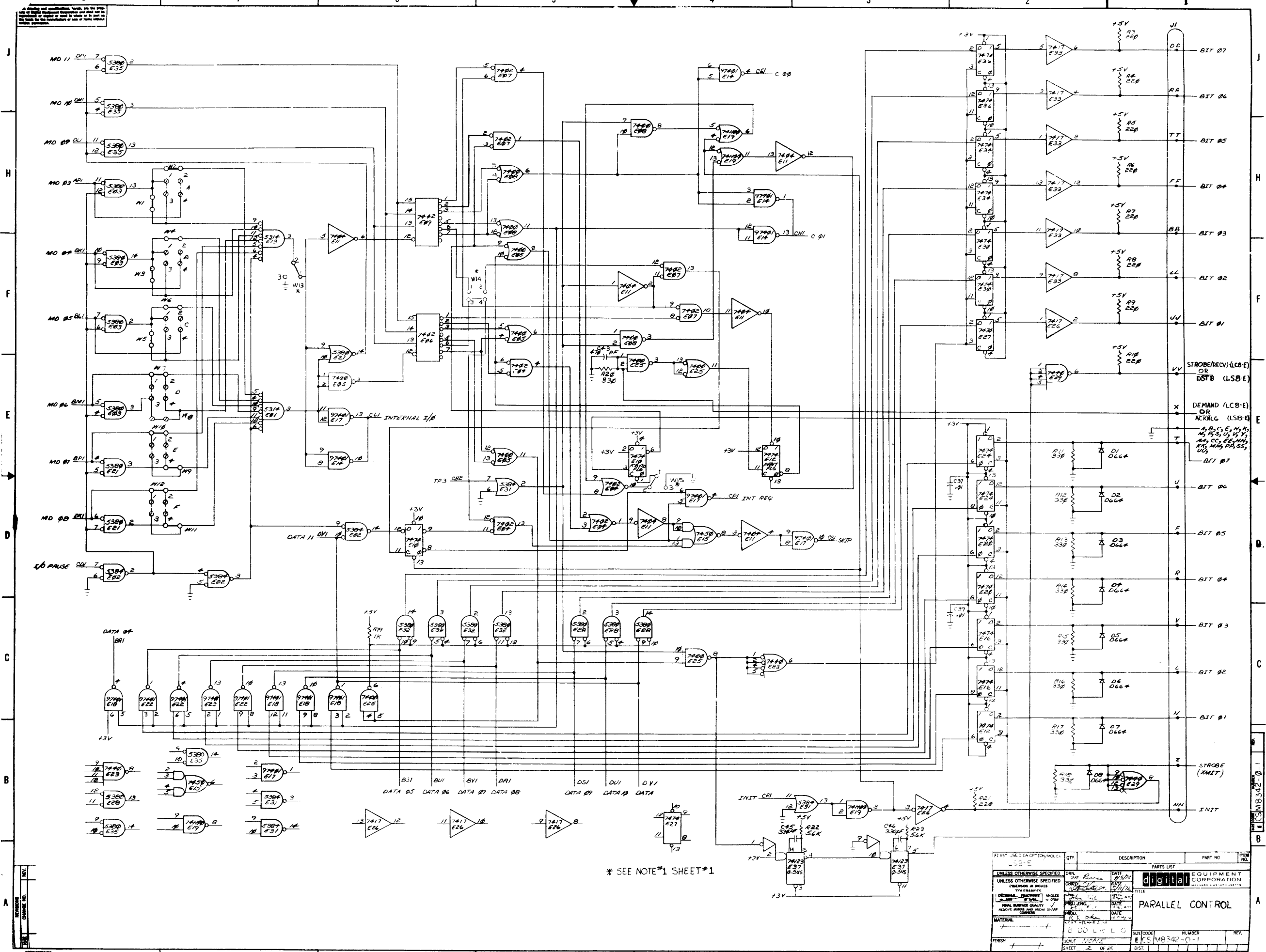
DRN	DATE	5/11/72
CHK'D	DATE	5/11/72
ENG	DATE	5/11/72
PROJ. ENG.	DATE	5/11/72
PROD.	DATE	5/11/72

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: PARALLEL CONTROL

SIZE CODE: D CS178342-0-1
NUMBER: 1
REV: *

SEMICONDUCTOR CONVERSION CHART
SHEET 1 OF 2



* SEE NOTE #1 SHEET #1

REV.	DESCRIPTION	DATE	BY	CHKD.	DATE
1	INITIAL DESIGN	11/17/66	...	...	...
2	REVISED	12/1/66	...	...	...
3	REVISED	12/1/66	...	...	...
4	REVISED	12/1/66	...	...	...
5	REVISED	12/1/66	...	...	...
6	REVISED	12/1/66	...	...	...
7	REVISED	12/1/66	...	...	...
8	REVISED	12/1/66	...	...	...
9	REVISED	12/1/66	...	...	...
10	REVISED	12/1/66	...	...	...
11	REVISED	12/1/66	...	...	...
12	REVISED	12/1/66	...	...	...
13	REVISED	12/1/66	...	...	...
14	REVISED	12/1/66	...	...	...
15	REVISED	12/1/66	...	...	...
16	REVISED	12/1/66	...	...	...
17	REVISED	12/1/66	...	...	...
18	REVISED	12/1/66	...	...	...
19	REVISED	12/1/66	...	...	...
20	REVISED	12/1/66	...	...	...
21	REVISED	12/1/66	...	...	...
22	REVISED	12/1/66	...	...	...
23	REVISED	12/1/66	...	...	...
24	REVISED	12/1/66	...	...	...
25	REVISED	12/1/66	...	...	...
26	REVISED	12/1/66	...	...	...
27	REVISED	12/1/66	...	...	...
28	REVISED	12/1/66	...	...	...
29	REVISED	12/1/66	...	...	...
30	REVISED	12/1/66	...	...	...
31	REVISED	12/1/66	...	...	...
32	REVISED	12/1/66	...	...	...
33	REVISED	12/1/66	...	...	...
34	REVISED	12/1/66	...	...	...
35	REVISED	12/1/66	...	...	...
36	REVISED	12/1/66	...	...	...
37	REVISED	12/1/66	...	...	...
38	REVISED	12/1/66	...	...	...
39	REVISED	12/1/66	...	...	...
40	REVISED	12/1/66	...	...	...
41	REVISED	12/1/66	...	...	...
42	REVISED	12/1/66	...	...	...
43	REVISED	12/1/66	...	...	...
44	REVISED	12/1/66	...	...	...
45	REVISED	12/1/66	...	...	...
46	REVISED	12/1/66	...	...	...
47	REVISED	12/1/66	...	...	...
48	REVISED	12/1/66	...	...	...
49	REVISED	12/1/66	...	...	...
50	REVISED	12/1/66	...	...	...
51	REVISED	12/1/66	...	...	...
52	REVISED	12/1/66	...	...	...
53	REVISED	12/1/66	...	...	...
54	REVISED	12/1/66	...	...	...
55	REVISED	12/1/66	...	...	...
56	REVISED	12/1/66	...	...	...
57	REVISED	12/1/66	...	...	...
58	REVISED	12/1/66	...	...	...
59	REVISED	12/1/66	...	...	...
60	REVISED	12/1/66	...	...	...
61	REVISED	12/1/66	...	...	...
62	REVISED	12/1/66	...	...	...
63	REVISED	12/1/66	...	...	...
64	REVISED	12/1/66	...	...	...
65	REVISED	12/1/66	...	...	...
66	REVISED	12/1/66	...	...	...
67	REVISED	12/1/66	...	...	...
68	REVISED	12/1/66	...	...	...
69	REVISED	12/1/66	...	...	...
70	REVISED	12/1/66	...	...	...
71	REVISED	12/1/66	...	...	...
72	REVISED	12/1/66	...	...	...
73	REVISED	12/1/66	...	...	...
74	REVISED	12/1/66	...	...	...
75	REVISED	12/1/66	...	...	...
76	REVISED	12/1/66	...	...	...
77	REVISED	12/1/66	...	...	...
78	REVISED	12/1/66	...	...	...
79	REVISED	12/1/66	...	...	...
80	REVISED	12/1/66	...	...	...
81	REVISED	12/1/66	...	...	...
82	REVISED	12/1/66	...	...	...
83	REVISED	12/1/66	...	...	...
84	REVISED	12/1/66	...	...	...
85	REVISED	12/1/66	...	...	...
86	REVISED	12/1/66	...	...	...
87	REVISED	12/1/66	...	...	...
88	REVISED	12/1/66	...	...	...
89	REVISED	12/1/66	...	...	...
90	REVISED	12/1/66	...	...	...
91	REVISED	12/1/66	...	...	...
92	REVISED	12/1/66	...	...	...
93	REVISED	12/1/66	...	...	...
94	REVISED	12/1/66	...	...	...
95	REVISED	12/1/66	...	...	...
96	REVISED	12/1/66	...	...	...
97	REVISED	12/1/66	...	...	...
98	REVISED	12/1/66	...	...	...
99	REVISED	12/1/66	...	...	...
100	REVISED	12/1/66	...	...	...

EKS MB342-0-1

A

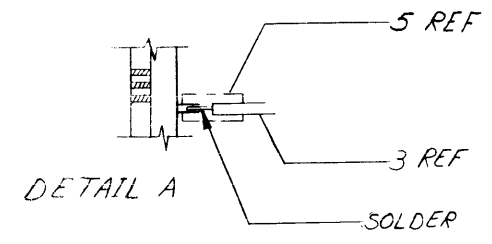
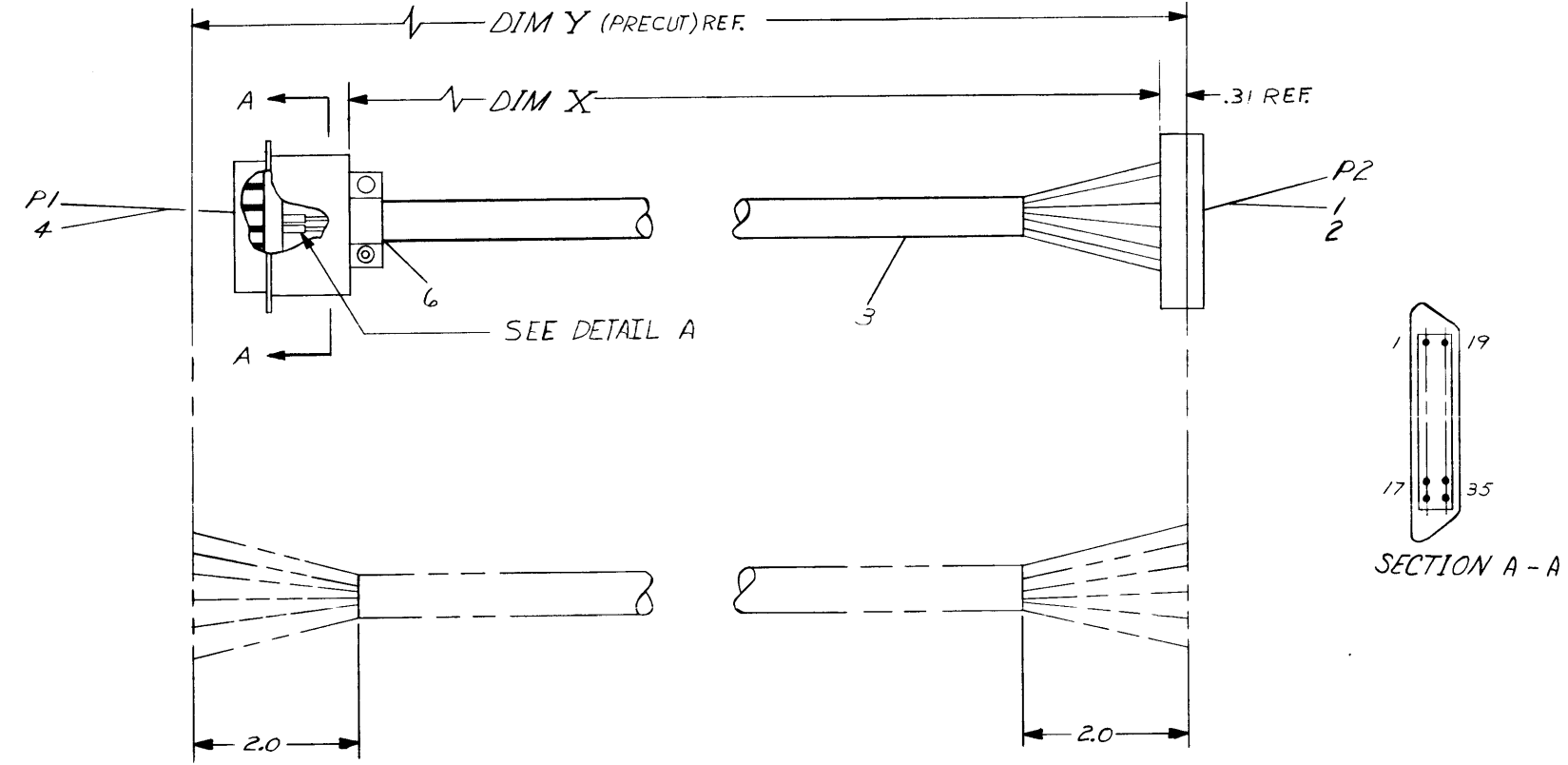
1

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

WIRED TABLE							WIRED TABLE						
ITEM NO	DESCRIPTION	FROM	TO	SIGNAL NAME	ITEM NO	DESCRIPTION	FROM	TO	SIGNAL NAME				
2	RED	PI-2	P2-VV	DATA 1	2	ORG	PI-8	P2-DD	DATA 7				
3	TWP	PI-20	P2-HH	RETURN	3	BLK	PI-26	P2-CC	RETURN				
	BLU	PI-3	P2-LL	DATA 2		RED	PI-1	P2-VV	DATA STROBE				
	BLK	PI-21	P2-KK	RETURN		WHT	PI-19	P2-UU	RETURN				
	BRN	PI-4	P2-BB	DATA 3		YEL	PI-10	P2-X	ACKNLG				
	BLK	PI-22	P2-AA	RETURN		BLK	PI-28	P2-W	RETURN				
	WHT	PI-5	P2-FF	DATA 4		RED	PI-12	P2-V	P.E.				
	BLK	PI-23	P2-EE	RETURN		YEL	-	P2-U	RETURN				
	GRN	PI-6	P2-TT	DATA 5		RED	PI-32	P2-R	FAULT				
	RED	PI-24	P2-SS	RETURN	3	TWP	BLU	P2-P	RETURN				
	GRN	PI-7	P2-RR	DATA 6									
3	TWP	PI-25	P2-PP	RETURN									

LEGEND		
NUMBER	DIM X VARIATION	DIM Y VARIATION
7008859.15	1/5 FEET ± 3 IN	1/5 FEET ± 4 IN

- NOTES:
- P2 PINS (ITEM #2) TO BE MACHINE CRIMPED.
 - PI PINS (ITEM #4) TO HAVE SHRINK SLEEVING (ITEM #5).
 - RETURNS FOR 10 & 11 TO BE CUT OFF FLUSH WITH OUTER COVER OF CABLE AT PI END.
 - CABLE DIAMETER TO BE INCREASED BY WRAPPING WITH 1/2 IN WIDE DOUBLE SIDED TAPE TO INSURE THAT PI CABLE CLAMP GRIPS TIGHTLY. (APPROX. 2 TURNS.)



QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	AIR TAPE #4032 1/2 IN 3/4 IN CO	90078346	6
1	AIR SLEEVING-BLACK-SHRINK TUBE	9007254	5
1	CONN AMPHENOL 57-30360	1203466-1	4
22	CABLE 11 TWP PAIR 22 AWG	9107707	3
1	SOCKET BERG #48015	1210089-05	2
1	HOUSING BERG #20383	1210090-0	1

FIRST USED ON OPTION/MODEL		PARTS LIST	
LS8-E		PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DRN DATE 4/13/72		
TOLERANCES	CHKD DATE 5/1/72		
DECIMALS	ENGR DATE 5/1/72	TITLE INTERFACE CABLE CENTRONICS PRINTER	
ANGLES	PROJ. ENG. DATE 5/1/72		
xxx = .005	PROD. DATE 5/15/72	MATERIAL NEXT HIGHER ASSY. B-DD LS8-E-Ø	
xx = .02		FINISH SCALE 1/10 N/E	
x = .1		REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	
MATERIAL		SIZE CODE	NUMBER
		DIA	7008859-0-0
FINISH		SHEET	REV.
		OF	

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS				LEGEND		QUANTITY / VARIATION													
MADE BY R. Allen		CHECKED <i>R.K.</i>		SECTION		D DOCUMENT													
DATE 5/8/72		DATE 5/18/72				DN DOCUMENT CHANGE NOTICE													
ENG John Kirk		PROD <i>R.K.</i>		ISSUED SECT.		PA PAPER TAPE ASCII													
DATE 5/8/72		DATE 5-18-72				PB PAPER TAPE BINARY													
						PM PAPER TAPE READ-IN-MODE													
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION				LS8-EA	LS8-EB						KIT CHECK	BY	DATE	INSTALLATION CHECK	BY	DATE	
1	M8342	Control Interface				1	1												
2	7008859-0-0	Interface Cable				1	1												
3	30-10965-1	Printer LS01-EA				1	-												
4	30-10965-2	Printer LS01-EB				-	1												
5	36-10998	#525480001 Spool/Black Ribbon				1	1												
6	36-09141	14 7/8 x 11 Paper, Single Part				1	1												
7	B-DD-LS8-E-0	Print Set				1	1												
8	LIBKIT-8E-LS8-E	Library Kit				1	1												
9	Technical Manual 101	Centronics Maintenance Manual				1	1												
10	A-SP-LS8-E-2	Engineering Specification *				1	1												
		* To be shipped until Maintenance Manual available.																	
TITLE				ASSY. NO.		SIZE CODE		NUMBER		REV.		ECO NO							
Accessory Shipping List						A AL		LS8-E-1											
SHEET 1 OF 1						DIST.													

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY <i>M. PIERCE</i>	CHECKED <i>Part J 5/11/72</i>	SECTION
DATE <i>4/5/72</i>	DATE <i>Part J 5/11/72</i>	
ENG <i>John Kiel</i>	PROD <i>R. X. ...</i>	ISSUED SECT.
DATE <i>15 May 1972</i>	DATE <i>5-15-72</i>	

QUANTITY / VARIATION

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION															
			LS8-EA	LS8-EB														
1	M8342-0-1	MODULE "PARALLEL CONTROL"	1	1														
2	7008859-0-0	CABLE "INTERFACE CABLE CENTRONICS PRINTER"	1	1														
3	A-PL-LS01-EA-0	CENTRONICS PRINTER 117V 60HZ	1															
4	A-PL-LS01-EB-0	CENTRONICS PRINTER 234V 50HZ		1														

TITLE PARALLEL CONTROL	ASSY NO.	SIZE CODE A PL	NUMBER LS8-E-0	REV.	ECO NO.
	SHEET 1 OF 1	DIST.			

DEC FORM DEC 16-(325)-1031-N870
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

QUANTITY / VARIATION

MADE BY <i>SA</i>	CHECKED <i>SA</i>	SECTION
DATE <i>5/15/72</i>	DATE <i>5/15/72</i>	ISSUED SECT.
ENG <i>John Kiel</i>	PROD <i>R X aale</i>	
DATE <i>15 May 1972</i>	DATE <i>5 15 72</i>	

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	LS01-EA	LS01-EB									
1	30-10965-1	CENTRONICS PRINTER 117V 60HZ	1										
2	30-10965-2	CENTRONICS PRINTER 234V 50HZ		1									

TITLE	ASSY NO.	SIZE CODE	NUMBER	REV.	ECO NO.
CENTRONICS PRINTER		A PL	LS01-E-0		
SHEET 1 OF 1		DIST.			

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 4/18/72

TITLE LS8-E ACCEPTANCE PROCEDURE

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG	John Kirk	APPD	SIZE	CODE	NUMBER	REV
			A	SP	LS8-E-4	

ENGINEERING SPECIFICATION

digital

CONTINUATION SHEET

TITLE LS8-E ACCEPTANCE PROCEDURE

Purpose:

To define the procedure to accept an LS8-E, Centronics Printer and Interface for shipment.

Test Hardware:

1. PDP8/E computer, 4K memory or greater.
2. LS8-E Interface (M8342)
3. Interconnecting cable 7008859-0-0
4. Centronics 101 Line printer DEC #30-10965-1 or 30-10965-2

Test Software:

MAINDEC-08-DHLSA-A

Procedure:

1. Ensure that all ECO's have been installed.
2. Perform Q.C. inspection.
3. Ensure that the device code (66 standard) does not conflict with any other code on the system. (Reference LS8-E Engineering Specification for change information)
4. Ensure that jumpers W13, W14, W15 are correctly installed for LS8-E use (Reference E-CS-M8342-0-1 Note 1)
5. Run one pass of the Lineprinter Test using single part paper (MAINDEC-08-DHLSA-A). No errors are acceptable. Compare print quality with the sample supplied.
6. Run one pass of the diagnostic using 5 part paper. Verify that all copies are legible.
7. Shipping Software and Hardware: as listed on A-AL-LS8-E-1.

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 3/8/72

TITLE LS8-E (M8342)

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG	John Kirk	APPD	<i>John Kirk</i> 19 May 72	SIZE	CODE	NUMBER	REV
				A	SP	LS8-E-2	

ENGINEERING SPECIFICATION



CONTINUATION SHEET

TITLE LS8-E (M8342)

Abstract:

The LS8-E is a parallel interface to the Centronics Model 101 Lineprinter for the PDP8/E. Split lugs are provided to allow the device codes to be changed.

I. General:

The LS8-E Parallel Interface is used with the Centronics Model 101 Lineprinter (DEC P/N 30-10965). Split lugs are provided to allow any device code to be assigned. The same control board will be used, M8342, for the LA30 Parallel Control, LC8-E. (When existing stocks of M8329 boards have been used up.)

II. Physical:

The LS8-E is built on a single quad size board which plugs directly into the OMNIBUS.

III. Specifications - Environment:

	Control	Printer
Operating temperature:	0 - +55°C	+5 - 38°C
Operating humidity:	10 - 90% non condensing	5 - 95%
Storage temperature:	-15 - +65°C	-40 - 65°C
Storage humidity:	5 - 95%	0 - 98%

IV. Specifications - Operating:

- Type of transmission - Parallel
- Control Signals

DSTB - Sent to the Centronics printer to enable loading the printer buffer or, in the case of a control function, to initiate a print operation or a paper movement operation. It is sent 500 nsec after TP3 of the data transfer instruction and is of 500 nsec duration.

SIZE	CODE	NUMBER	REV
A	SP	LS8-E-2	

This drawing and specifications herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

ENGINEERING SPECIFICATION

digital

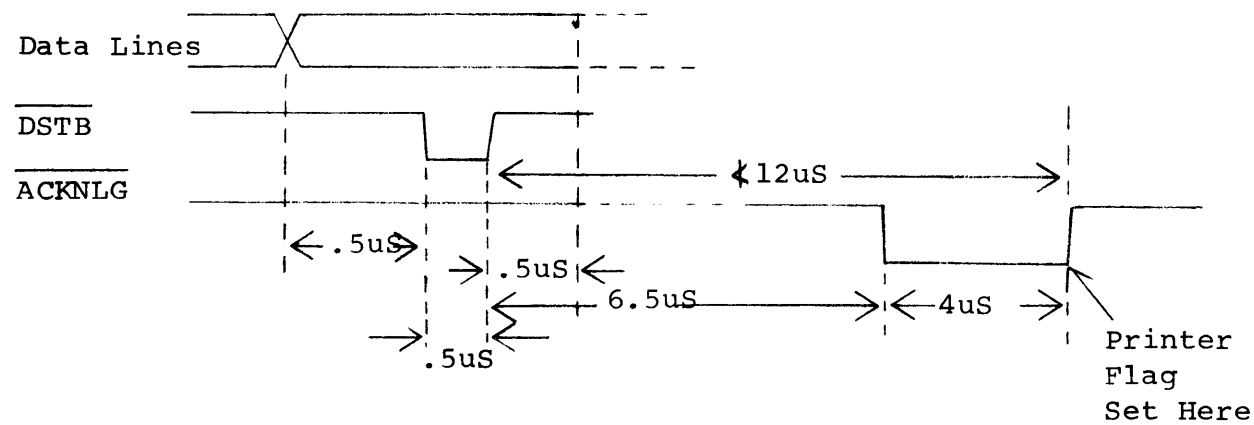
CONTINUATION SHEET

TITLE LS8-E (M8342)

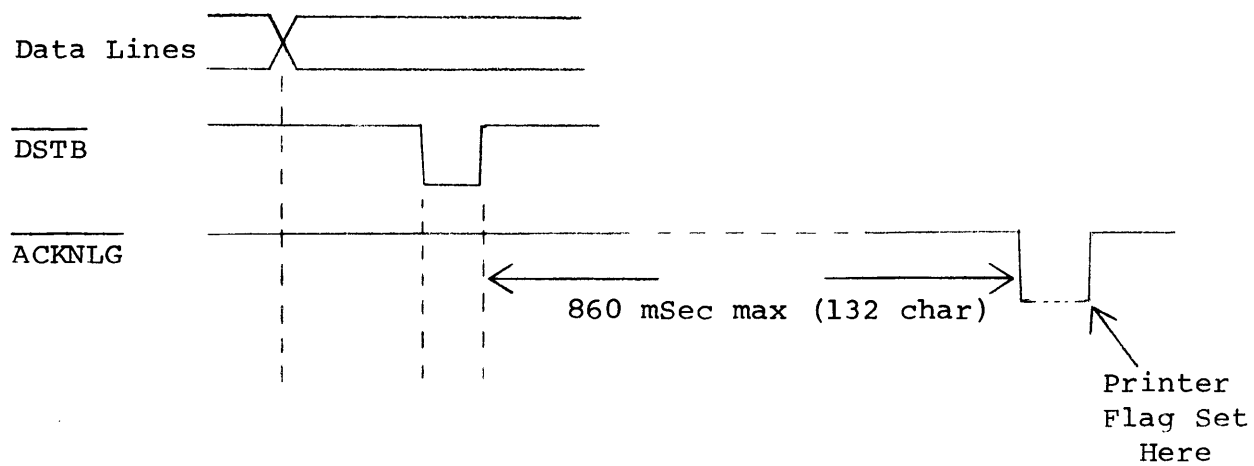
ACKNLG - Sent by the printer to indicate the completion of an operation initiated by a DSTB signal from the processor.

3. Timing Diagrams

A. Data Transfer - no print



B. Data Transfer - print, or carriage return



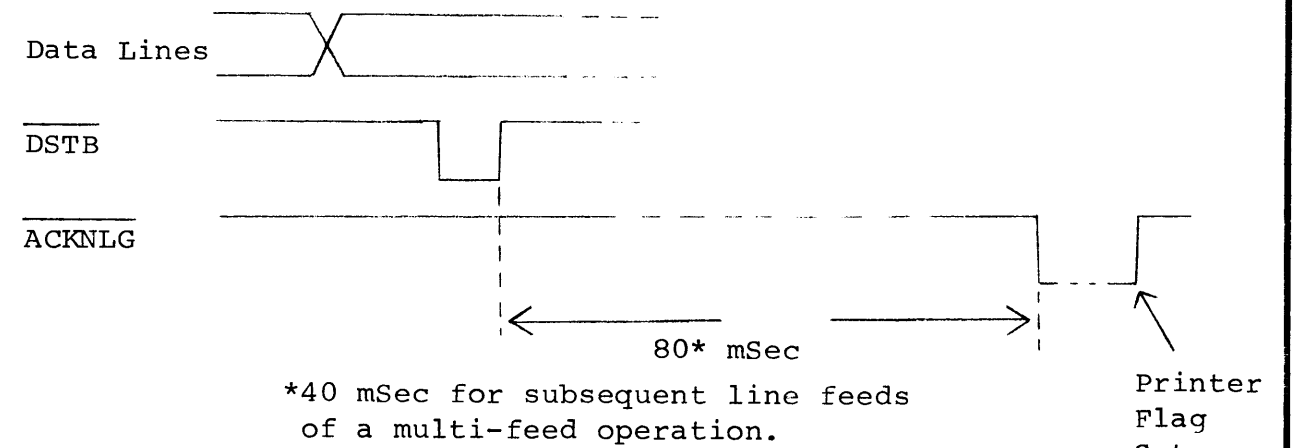
ENGINEERING SPECIFICATION

digital

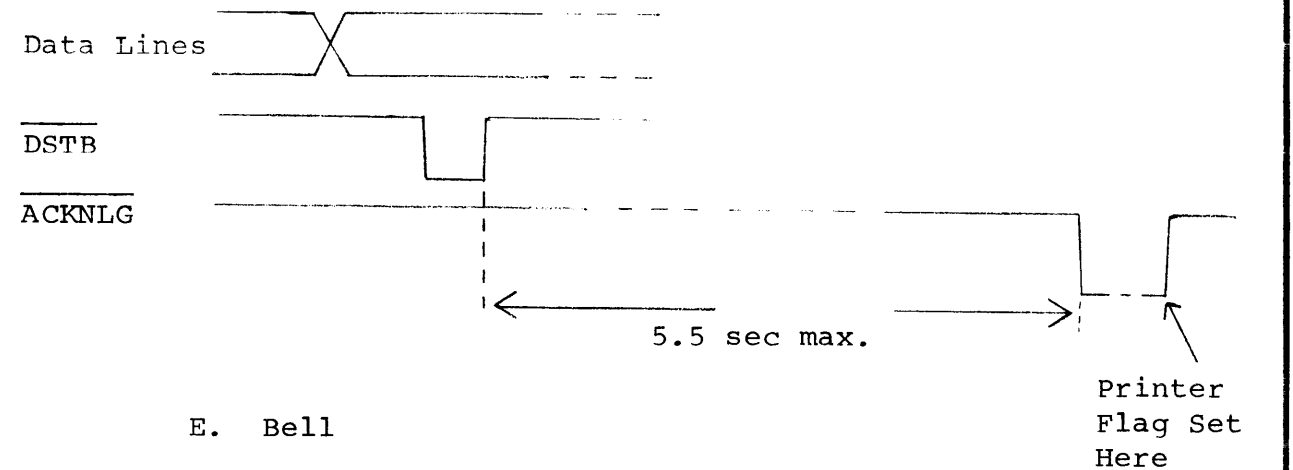
CONTINUATION SHEET

TITLE LS8-E (M8342)

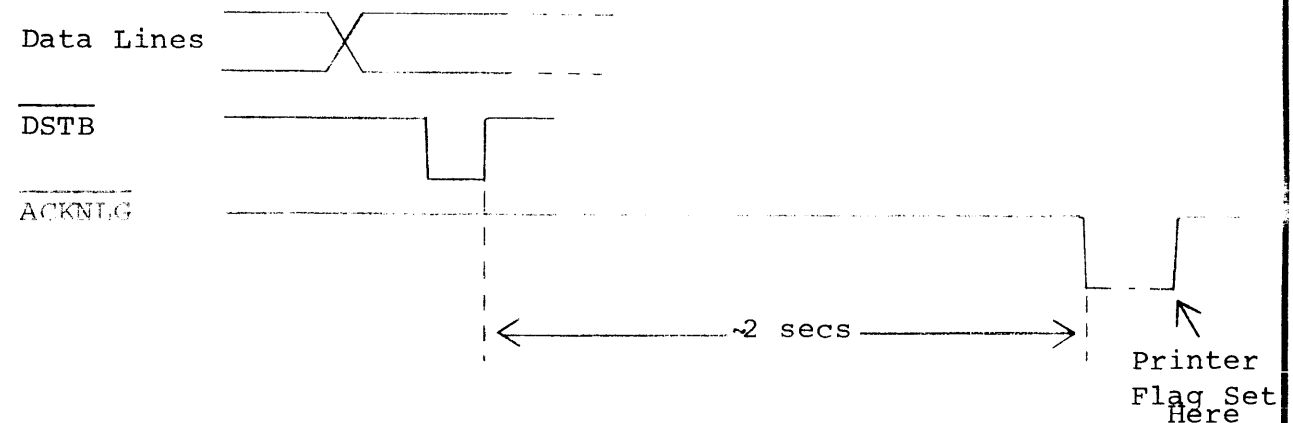
C. Line Feed



D. Vertical Tab & Form Feed



E. Bell



SIZE A	CODE SP	NUMBER LS8-E-2	REV
------------------	------------	-------------------	-----

SIZE A	CODE SP	NUMBER LS8-E-2	REV
------------------	------------	-------------------	-----

TITLE LS8-E (M8342)

4. Cable

The standard cable length is 15 feet. The cable used is a DEC #7008859.

V. Programming

The LS8-E is normally assigned device code 66(8) but can be changed to any other code.

The instruction set is as follows:

- 6660 Set printer flag.
Sets the printer flag.
- 6661 Skip on printer flag.
Skip the next sequential instruction if the printer flag is set.
- 6662 Clear printer flag*
Clears the printer flag.
- 6664 Load the printer buffer.
Transfer AC 5-11 to the output buffer and 0.5 us later assert ~~DSTB~~ to transfer the output buffer contents to the printer. The printer flag is not cleared.
- 6665 Set/clear Interrupt Enable**
If AC11(1), set interrupt enable, if AC11(0) clear interrupt enable.
- 6666 Load printer buffer sequence.
Transfer AC 5-11 to the output buffer and 0.5 us later assert DSTB to transfer the output buffer contents to the printer. Clear the printer flag.

* Cleared by initialize or CAF

** Set by initialize or CAF

SIZE	CODE	NUMBER	REV
A	SP	LS8-E-2	

SHEET 5 OF 9

TITLE LS8-E (M8342)

VI Device Codes & Option Jumpers

Split lugs are provided on the M8342 to allow any device code to be used. As manufactured the device code jumpers are set for use with the LC8-E option which uses two device codes 03, 04.

By means of a jumper the first of these two device decoders must be disabled for use with the LS8-E and the second rewired to respond to device code 66(8).

It is necessary to make two other jumper changes. One change allows the 6665 instruction to operate correctly with the LS8-E, the other disables the "KBY'D FLG" flip/flop.

Summary:

To use the M8342 with the LS8-E:

1. Change jumper W13 from 1-2 to 1-3
2. Change jumpers W14 from 1-2 to 1-4
3-4 to 2-3
3. Change jumper W15 from 1-2 to 1-3
4. Set the jumpers for device code as indicated in Table I.
(Standard device code is 66(8)).

Device code jumpers are organized in the following layout format:

2	1
A	
W2	W1
4	3

Machine inserted jumpers W1 - W12 are correct for the LC8-E device codes of 03 (8) and 04 (8). A jumper in a group to be changed should be cut before any other wires are added.

SIZE	CODE	NUMBER	REV
A	SP	LS8-E-2	

SHEET 6 OF 9

ENGINEERING SPECIFICATION

digital

CONTINUATION SHEET

TITLE LS8-E (M8342)

Device Code	Group A	B	C	D	E	F
ØØ	1-2	1-2	1-2	3-2	4-3	4-3
Ø1	1-2	1-2	1-2	3-2	4-3	1-3
Ø2	1-2	1-2	1-2	3-2	1-3	4-3
Ø3	1-2	1-2	1-2	3-2	1-3	1-3
Ø4	1-2	1-2	1-2	1-2	4-3	4-3
Ø5	1-2	1-2	1-2	1-2	4-3	1-3
Ø6	1-2	1-2	1-2	1-2	1-3	4-3
Ø7	1-2	1-2	1-2	1-2	1-3	1-3
1Ø	1-2	1-2	4-2	3-2	4-3	4-3
11	1-2	1-2	4-2	3-2	4-3	1-3
12	1-2	1-2	4-2	3-2	1-3	4-3
13	1-2	1-2	4-2	3-2	1-3	1-3
14	1-2	1-2	4-2	1-2	4-3	4-3
15	1-2	1-2	4-2	1-2	4-3	1-3
16	1-2	1-2	4-2	1-2	1-3	4-3
17	1-2	1-2	4-2	1-2	1-3	1-3
2Ø	1-2	4-2	1-2	3-2	4-3	4-3
21	1-2	4-2	1-2	3-2	4-3	1-3
22	1-2	4-2	1-2	3-2	1-3	4-3
23	1-2	4-2	1-2	3-2	1-3	1-3
24	1-2	4-2	1-2	1-2	4-3	4-3
25	1-2	4-2	1-2	1-2	4-3	1-3
26	1-2	4-2	1-2	1-2	1-3	4-3
27	1-2	4-2	1-2	1-2	1-3	1-3
3Ø	1-2	4-2	4-2	3-2	4-3	4-3
31	1-2	4-2	4-2	3-2	4-3	1-3
32	1-2	4-2	4-2	3-2	1-3	4-3
33	1-2	4-2	4-2	3-2	1-3	1-3
34	1-2	4-2	4-2	1-2	4-3	4-3
35	1-2	4-2	4-2	1-2	4-3	1-3
36	1-2	4-2	4-2	1-2	1-3	4-3
37	1-2	4-2	4-2	1-2	1-3	1-3

SIZE **A** CODE SP NUMBER LS8-E-2 REV

ENGINEERING SPECIFICATION

digital

CONTINUATION SHEET

TITLE LS8-E (M8342)

Device Code	Group A	B	C	D	E	F
4Ø	4-2	1-2	1-2	3-2	4-3	4-3
41	4-2	1-2	1-2	3-2	4-3	1-3
42	4-2	1-2	1-2	3-2	1-3	4-3
43	4-2	1-2	1-2	3-2	1-3	1-3
44	4-2	1-2	1-2	1-2	4-3	4-3
45	4-2	1-2	1-2	1-2	4-3	1-3
46	4-2	1-2	1-2	1-2	1-3	4-3
47	4-2	1-2	1-2	1-2	1-3	1-3
5Ø	4-2	1-2	4-2	3-2	4-3	4-3
51	4-2	1-2	4-2	3-2	4-3	1-3
52	4-2	1-2	4-2	3-2	1-3	4-3
53	4-2	1-2	4-2	3-2	1-3	1-3
54	4-2	1-2	4-2	1-2	4-3	4-3
55	4-2	1-2	4-2	1-2	4-3	1-3
56	4-2	1-2	4-2	1-2	1-3	4-3
57	4-2	1-2	4-2	1-2	1-3	1-3
6Ø	4-2	4-2	1-2	3-2	4-3	4-3
61	4-2	4-2	1-2	3-2	4-3	1-3
62	4-2	4-2	1-2	3-2	1-3	4-3
63	4-2	4-2	1-2	3-2	1-3	1-3
64	4-2	4-2	1-2	1-2	4-3	4-3
65	4-2	4-2	1-2	1-2	4-3	1-3
66	4-2	4-2	1-2	1-2	1-3	4-3
67	4-2	4-2	1-2	1-2	1-3	1-3
7Ø	4-2	4-2	4-2	3-2	4-3	4-3
71	4-2	4-2	4-2	3-2	4-3	1-3
72	4-2	4-2	4-2	3-2	1-3	4-3
73	4-2	4-2	4-2	3-2	1-3	1-3
74	4-2	4-2	4-2	1-2	4-3	4-3
75	4-2	4-2	4-2	1-2	4-3	1-3
76	4-2	4-2	4-2	1-2	1-3	4-3
77	4-2	4-2	4-2	1-2	1-3	1-3

SIZE **A** CODE SP NUMBER LS8-E-2 REV

TITLE LS8-E (M8342)

040	041	042	043	044	045	046	047	050
051	052	053	054	055	056	057	060	061
062	063	064	065	066	067	070	071	072
073	074	075	076	077	100	101	102	103
104	105	106	107	110	111	112	113	114
115	116	117	120	121	122	123	124	125
126	127	130	131	132	133	134	135	136
								137

- CONTROL CODES**
- 007 BELL
 - 012 LINE FEED
 - 013 VERTICAL FORMAT
 - 014 FORM FEED
 - 015 CARRIAGE RETURN
 - 177 DELETE
 - 016 ELONGATED CHARACTER

TABLE 1
(5x7 Dot Matrix)

SIZE A	CODE SP	NUMBER LS8-E-2	REV
-----------	------------	-------------------	-----