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DEC-O-LOG

Engineering Change Order Log

ECO SYNOPSIS pages are updated and published continuously in conjunction with the issuance of ENGINEERING CHANGE ORDERS for all DEC products and are available upon subscription from:

DIGITAL EQUIPMENT CORPORATION
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MAYNARD, MASSACHUSETTS

ECO SYNOPSIS FOR LOGIC OR OPTION

PDP-8L PROCESSOR LOGIC

PDP-8L

PRODUCT LINE

PDP-8L

PUBLICATION DATE
OF THIS SYNOPSIS PAGE

JUNE 1970

PAGE
REVISION

0

R643

ECO NO.	LOGIC OR OPTION SERIAL NO.'S AFFECTED	FIELD CODE	SYNOPSIS
8L 00001	>8L	M	AUG 68 - CHANGES THE SILK SCREEN FOR THE CONTROL PANEL TO POSITION WORDING CORRECTLY.
8L 00002	>8L	M	AUG 68 - CHANGES THE SILK SCREEN FOR THE CONTROL PANEL TO POSITION WORDING CORRECTLY.
8L 00003	>8L	M	AUG 68 - CHANGES THE SILK SCREEN FOR THE CONTROL PANEL TO POSITION WORDING CORRECTLY.
8L 00004	>8L	M	AUG 68 - CHANGES THE SILK SCREEN ARTWORK FOR THE REAR SCREEN TO IMPROVE MECHANICAL ALIGNMENT.
8L 00005	>8L	M	SEP 68 - SPECIFIES THE USE OF A SMALLER INSERT FOR THE LIGHT BOARD SUPPORT.
8L 00006	N.A.	M	SEP 68 - ADDS A DIMENSION TO THE PRINT FOR THE PLEXIGLAS® SUPPORT.

8L 00007	>8L	M	SEP 68 - ADDS AN INSTRUCTION FOR PREPARATION OF THE SWITCH MOUNTING HOLE IN THE INDICATOR PANEL.
8L 00008	>8L	M	OCT 68 - ADDS RIVNUT CLEARANCE IN THE WIRING BLOCK.
8L 00009	8L 100-169>	D	OCT 68 - MAKES PP8L AND PR8L LOGIC COMPATIBLE WITH THE LATEST REVISION M705 AND M715. CHANGES IOP'S FROM 680 NSEC TO 580 NSEC.
8L 00010	>8L	M	OCT 68 - SPECIFIES TRIMMING OF THE INDICATOR PANEL SWITCH OPENING TO FACILITATE INSTALLATION.
8L 00011	8L 100-199>	P	OCT 68 - PROVIDES A DESIGN UPDATING OF THE 8L PRINT SET.

LEGEND	
FIELD CODE	
F - Field action may be required	
D - Design ECO	
P - Print or Wire List change	
M - Mechanical ECO	
SYMBOL	
> - ECO applicable to future production	
ECO CHARGES	
Charges are coded within the synopsis. (*BX,**SY,***SZ)	
BX - Charge for Space and updated prints <u>only</u>	
SY - Charge for necessary parts <u>only</u>	
SZ - Charge for on site labor <u>only</u> , installation by DSC	
NOTE: Charges are additive (BX+SY+SZ = <u>Total</u> on site charge for ECO installation by DSC)	

MASTER DRAWING LIST REVISIONS			
REV	ECO NUMBER	REV	ECO NUMBER
A	8L-00009		
B	8L-00011		

WIRE LIST REVISIONS			
REV	ECO NUMBER	REV	ECO NUMBER
A	8L-00009		
B	8L-00011		

8L PAGE 1

ONLY FCO'S WRITTEN TO THE "PDP8L" OPTION ARE DOCUMENTED ON THIS FICHE.

FCO'S FOR BA08 ARE DOCUMENTED IN ITS APPROPRIATE PLACE IN THIS SECTION OF THE LIBRARY.

FCO'S FOR "G020", G021, G221, G624, & G793" ARE DOCUMENTED IN THE MODULE ASSEMBLY (BLUE) SECTION OF THE LIBRARY.

Frame 2 of 2

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ECO NO.	LOGIC OR OPTION SERIAL NO.'S AFFECTED	FIELD CODE	SYNOPSIS
BL 00012	>BL	M	OCT 68 - CHANGES THE SUPER CHASSIS COVER MATERIAL FROM EMBOSSED STEEL TO PLAIN STEEL.
BL 00013	BL 100-199>	F	OCT 68 - CORRECTS AN IOP 4 RACE CONDITION CAUSED BY "I/O ON (1)" AND "IOP C (0)" BEING GENERATED SIMULTANEOUSLY BY I/O ROTATE.
G221 00001	ALL BL	F	OCT 68 - SPECIFIES THAT ALL DEC 6534B TRANSISTORS ARE TO BE CHANGED TO DEC 2904 TO PROVIDE MORE DEPENDABLE OPERATION UNDER HIGH VOLTAGE CONDITIONS. G221 CIRCUIT SCHEMATIC REVISION C
BL 00014	N.A.	P	OCT 68 - CORRECTS MODULE BLOCK DESIGNATIONS ON THE WIRED ASSEMBLY DRAWING.
BL 00015	>BL	M	OCT 68 - INCREASES INSERT HOLE SIZE TO ELIMINATE SPLITTING OF THE CORNERS OF THE BENELEX®.
BL 00016	>BL	M	OCT 68 - CHANGES THE LIGHT PANEL EXTRUSION TO HOLD THE SWITCHES MORE FIRMLY.
BL 00017	BL 100-199>	P	OCT 68 - CORRECTS WIRE LIST ERRORS.
BL 00018	>BL	M	OCT 68 - CHANGES THE POSITION OF A HOLE IN THE CHASSIS TO PROVIDE CORRECT ALIGNMENT WITH AN INSERT IN THE POWER SUPPLY.

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G624 00001	ALL 8L FIELD RETROFIT AS REQUIRED	F	NOV 68 - CHANGES THE VALUE OF THE INHIBIT CURRENT LIMITING RESISTORS FROM 70 OHMS TO 56 OHMS. THIS INCREASES THE INHIBIT CURRENT AND IMPROVES THE OPERATION OF FERROX CUBE STACKS. G624 CIRCUIT SCHEMATIC REVISION D
8L 00019	>8L	M	NOV 68 - INCREASES CLEARANCE FOR THE SWITCHES ON THE INDICATOR PANEL.
8L 00020	8L 100-227>	P	NOV 68 - CORRECTS WIRE LIST ERRORS.
8L 00021	>8L	M	NOV 68 - CHANGES THE COLOR SCHEME FOR THE INDICATOR PANEL.
8L 00022	8L 101-325>	F	NOV 68 - CHANGES TIMING ON "KEY CL" AND "KEY LOAD" TO ALLOW SETTING OF THE EA LIGHT WITH LOAD ADDRESS WHEN THE SYSTEM INCLUDES EXTENDED MEMORY. ADDS A GATE TO ELIMINATE THE SR BEING LOADED INTO BOTH THE MA AND THE MB. PROVIDES "BEMA" TO THE MCBL INSTEAD OF "ERA"; THIS EXTENDS MEMORY PROTECTION TO INCLUDE THE LAST PAGE OF EXTENDED MEMORY. GATES "WORD COUNT 0" TO PROVIDE MEMORY PROTECT DURING A THREE-CYCLE BREAK.

LEGEND	
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SYMBOL	
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SY - Charge for necessary parts <u>only</u>	
SZ - Charge for on site labor <u>only</u> . Installation by DEC	
NOTE: Charges are additive (SX+SY+SZ = Total on site charge for ECO installation by DEC)	

MASTER DRAWING LIST REVISIONS			
REV	ECO NUMBER	REV	ECO NUMBER
C	8L-00013		
D	8L-00017		
E	8L-00020		
F	8L-00022		

WIRE LIST REVISIONS			
REV	ECO NUMBER	REV	ECO NUMBER
C	8L-00013		
D	8L-00017		
E	8L-00020		
F	8L-00022		

8L PAGE 2

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 DEC-O-LOG

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ECO SYNOPSIS FOR LOGIC OR OPTION

PDP-8L PROCESSOR LOGIC **PDP-8/L**

PRODUCT LINE	PUBLICATION DATE OF THIS SYNOPSIS PAGE	PAGE REVISION
PDP-8L	JUNE 1970	0

R643

ECO NO.	LOGIC OR OPTION SERIAL NO.'S AFFECTED	FIELD CODE	SYNOPSIS
8L 00023	N.A.	P	NOV 68 - MAKES AN INCIDENTAL CORRECTION TO AN 8L BLOCK SCHEMATIC PRINT.
8L 00024	>8L	M	DEC 68 - CHANGES INSERTS IN THE CHASSIS FRAME TO PROVIDE GREATER THREAD DEPTH.
8L 00025	N.A.	P	JAN 69 - CORRECTS PRINTS.
8L 00026	N.A.	P	JAN 69 - CORRECTS MODULE QUANTITIES ON THE PARTS LIST. ADDS SPECIFICATIONS AND ACCEPTANCE PROCEDURES TO THE 8L PRINT SET.
8L 00027	8L 100-200>	F	JAN 69 - SPECIFIES THE USE OF TWISTED PAIR SENSE AMP LINES TO ELIMINATE NOISE PICKUP. *\$5.00
8L 00028	AS ORDERED	M	JAN 69 - ADDS ART WORK TO PROVIDE A SPECIAL CONTROL PANEL VARIATION AT CUSTOMER REQUEST.
8L 00029	N.A.	M	FEB 69 - CHANGES THE DIMENSIONS OF AN ALUMINUM STRIP ON THE SHIPPING CRATE.

8L 00030	8L 1-692> ALL WITH BA08	F	FEB 69 - ADDS A SIGNAL TO ELIMINATE FLOATING GATES IN THE BA08 DURING 8L POWER SHUTDOWN. NOTE: THE NET EFFECT OF ECO'S 8L-00030, 00031 AND 00038 IS TWO "ADDS", A28E1 TO B36T2 AND B27F2 TO B36S2. REFERENCE ECO BA08-00005. *\$5.00 (ERROR CORRECTED BY ECO 81-00031)
8L 00031	8L 1-692> ALL WITH BA08	F	FEB 69 - CORRECTS ECO 8L-00030; DELETES A36S2 TO B36S2. NOTE: THE NET EFFECT OF ECO'S 8L-00030, 00031 AND 00038 IS TWO ADDS, A28E1 TO B36T2 AND B27F2 TO B36S2. REFERENCE ECO BA08-00005. INCLUDED IN THE 8L-00030 KIT
8L 00032	>8L	M	FEB 69 - ADDS HOLE PUNCHING AND INSERT INSTALLATION INSTRUCTIONS TO THE SUPER COVER DRAWING.

LEGEND

FIELD CODE
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 P - Print or Wire List change
 M - Mechanical ECO

SYMBOL
 > - ECO applicable to future production

ECO CHARGES
 Charges are coded within the synopsis. (*\$X,**\$Y,***\$Z)
 \$X - Charge for Space and updated prints only
 \$Y - Charge for necessary parts only
 \$Z - Charge for on site labor only, installation by DEC

NOTE: Charges are additive (\$X+\$Y+\$Z = Total on site charge for ECO installation by DEC)

MASTER DRAWING LIST REVISIONS			
REV	ECO NUMBER	REV	ECO NUMBER
M	8L-00023		
J	8L-00025		
K	8L-00026		
L	8L-00027		
M	8L-00028		
N	8L-00030		

WIRE LIST REVISIONS			
REV	ECO NUMBER	REV	ECO NUMBER
M	8L-00027		
J	8L-00030		

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ECO NO.	LOGIC OR OPTION SERIAL NO.'S AFFECTED	FIELD CODE	SYNOPSIS
8L 00033	>8L	M	FEB 69 - ADDS HOLE PUNCHING AND INSERT INSTALLATION INSTRUCTIONS TO THE CABLE RETAINER DRAWING.
8L 00034	>8L	M	FEB 69 - ADDS DIMENSIONS, HOLE PUNCHING AND INSERT INSTALLATION INSTRUCTIONS TO THE CHASSIS FRAME DRAWINGS.
8L 0035	>8L	M	FEB 69 - CHANGES DIMENSIONS ON THE CHASSIS SUPER COVER DRAWING.
8L 00036	>8L	M	FEB 69 - CORRECTS THE PARTS LIST TO INCLUDE A CORRECT PART NUMBER FOR FOAM BACKING.
8L 00037	>8L	M	FEB 69 - ADDS A WELDED CORNER BRACE TO PREVENT CHASSIS MOVEMENT.
8L 00038	8L 693> ALL WITH BA08	F	FEB 69 - CHANGES LOGIC, POWER SUPPLY AND G826 REGULATOR CONTROL TO ELIMINATE POWER ON-OFF PROBLEMS. NOTE: THE CHANGE NUMBER ON THE SPEC FACE SHEET IS 00036 IN ERROR. NOTE: THE NET EFFECT OF ECO'S 8L-00030, 00031 AND 00038 IS TWO "ADDS" A28E1 TO B36T2 AND B27F2 TO B3652. *85.00
8L 00039	>8L	P	MAR 69 - CHANGES THE DRAWING FOR BRACKET #2 TO INCLUDE A PEM STUD RATHER THAN A WELDED STUD.
8L 00040	>8L	P	MAR 69 - CHANGES THE DRAWING FOR BRACKET #1 TO INDICATE PUNCHING AND INSERT INSTALLATION DIRECTIONS.

8L 00041	>8L	M	MAR 69 - ADDS INSTRUCTIONS FOR THE BONDING OF THE DECORATIVE CASING TO THE CHASSIS.
8L 00042	>8L	P	MAR 69 - REVISES BEZEL DRAWING DIMENSIONS TO AGREE WITH THE MANUFACTURED BEZEL.
8L 00043	>8L	M	MAR 69 - ADDS A METAL BORDER TO THE HEX SCREEN FOR A STRONGER WELD.
8L 00044	8L 100-720 > ALL WITH MPBL	F	MAR 69 - CHANGES "MP SKIP" GATE INPUT FROM THE "1" SIDE OF THE PARITY ERROR FLIP-FLOP TO THE "0" SIDE. *\$5.00
8L 00045	8L 1000 >	F	APR 69 - CHANGES LOGIC TO ALLOW FAST FLAG TESTING IN PERIPHERALS. THIS IS A PRODUCT IMPROVEMENT MODIFICATION. (ERRORS CORRECTED BY ECO'S 8L-00056, 00059 AND 00062) *\$5.00

LEGEND	
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\$X	Charge for Space and updated prints <u>only</u>
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\$Z	Charge for on site labor <u>only</u> , installation by DEC
NOTE: Charges are additive (\$X+\$Y+\$Z = Total) on site charge for ECO installation by DEC)	

MASTER DRAWING LIST REVISIONS			
REV	ECO NUMBER	REV	ECO NUMBER
P	8L-00036		
R	8L-00038		
S	8L-00044		
T	8L-00045		

WIRE LIST REVISIONS			
REV	ECO NUMBER	REV	ECO NUMBER
K	8L-00038		
L	8L-00044		
M	8L-00045		

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DEC-O-LOG

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ECO SYNOPSIS FOR LOGIC OR OPTION

PDP-8L PROCESSOR LOGIC **PDP-8/L**

PRODUCT LINE

PDP-8L

PUBLICATION DATE
OF THIS SYNOPSIS PAGE

JUNE 1978

PAGE
REVISION

0

0170 R628

ECO NO.	LOGIC OR OPTION SERIAL NO.'S AFFECTED	FIELD CODE	SYNOPSIS
BL 00046	AS ORDERED	M	APR 69 - PROVIDES THE SPECIAL ARTWORK REQUIRED FOR A CUSTOMER REQUESTED VARIATION TO THE CONTROL PANEL.
BL 00047	>BL	M	APR 69 - STANDARDIZES CHASSIS SLIDE SPECIFICATIONS.
BL 00048	N.A.	P	MAY 69 - ADDS AN IN-PLANT TEST PROCEDURE TO THE 8L PRINT SET.
BL 00049	>BL	M	MAY 69 - ADDS A SHIPPING LOCK FEATURE TO THE CHASSIS SLIDES.
BL 00050	>BL	M	MAY 69 - REDUCES THE HEIGHT OF THE 1-3/4" FILLER PANEL.
BL 00051	N.A.	P	MAY 69 - CORRECTS A DRAFTING ERROR ON A PP8L PRINT.
BL 00052	>BL	M	MAY 69 - REPLACES AN ALUMINUM ANGLE ON THE SUPER BOX WITH A PLASTIC STRIP TO PREVENT THE MARRING OF TABLE SURFACES.

Frame 1 of 2

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BL 00053	N.A.	P	JUN 69 - ADDS DRAWINGS, ENGINEERING SPECIFICATIONS AND ACCEPTANCE PROCEDURE TO THE PC8L PRINT SET.
BL 00054	N.A.	P	JUN 69 - ADDS SEVERAL DRAWINGS TO THE PP8L PRINT SET.
BL 00055	N.A.	P	JUN 69 - ADDS PRINTS, ENGINEERING SPECIFICATIONS, AND ACCEPTANCE PROCEDURE TO THE PR8L PRINT SET.
BL 00056	BL 1000-1421 > ALL WITH ECO 8L-00045	F	JUN 69 - CORRECTS ERRORS IN ECO 8L-00045; ADDS AN M115 AND CORRECTS LOGIC TO ALLOW PROPER INTERRUPT OPERATION. (INCLUDED IN THE 8L-00045 KIT) (ERROR CORRECTED BY ECO 8L-00092)
BL 00057	BL #761 ONLY	D	JUN 69 - ADDS CUSTOMER-REQUESTED JMS/0000 SWITCH LOGIC AND "PAUSE" TIMING MODIFICATION.

LEGEND	
FIELD CODE	
F	Field action may be required
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M	Mechanical ECO
SYMBOL	
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ECO CHARGES	
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MASTER DRAWING LIST REVISIONS			
REV	ECO NUMBER	REV	ECO NUMBER
U	8L-00046		
V	8L-00047		
W	8L-00048		
Y	8L-00056		

WIRE LIST REVISIONS			
REV	ECO NUMBER	REV	ECO NUMBER
N	8L-00056		

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ECO NO.	LOGIC OR OPTION SERIAL NO.'S AFFECTED	FIELD CODE	SYNOPSIS
8L 00058	>8L	M	JUN 69 - CHANGES PLEXIGLAS® SUPPORT HOLE SPECIFICATION.
8L 00059	8L 1000-1471> ALL WITH ECO 8L-00045	F	JUN 69 - CORRECTS AN ERROR IN ECO 8L-00045; ADDS "POWER CLEAR" TO THE PAUSE FLIP-FLOP TO ELIMINATE THE REQUIRED DOUBLE TOGGLING OF THE LOAD ADDRESS SWITCH WHEN PAUSE COMES ON IN THE "1" STATE AT POWER UP AND DISABLES THE PC. ERROR CORRECTED BY ECO 8L-00062
8L 00060	>8L	M	JUN 69 - INCREASES A WELD AREA FOR BETTER SUPPORT OF THE CHASSIS FRAME.
8L 00061	>8L	M	JUN 69 - MODIFIES THE CHASSIS SLIDES.
8L 00062	8L 1000-1511> AND ALL WITH ECO 8L-00059	F	JUL 69 - CORRECTS ECO 8L-00059; ADDS A MISSING WIRE AND REVERSES THE B13PI AND B13RI INPUTS TO THE M113.
8L 00063	N.A.	P	JUL 69 - CORRECTS PIN NUMBER DESIGNATIONS FOR A LOGIC GATE.
8L 00064	>8L	M	JUL 69 - CHANGES THE DIRECTION OF INSERT INSTALLATION ON A 718 POWER SUPPLY BRACKET.

M1

BL 00065	>8L	M	JUL 69 - DELETES 90-DEGREE CORNERS ON THE PLEXIGLAS® SUPPORT.
BL 00066	N.A.	P	AUG 69 - ADDS ACCESSORY AND SOFTWARE LISTS TO THE 8L PRINT SET.
BL 00067	N.A.	P	AUG 69 - ADDS ENGINEERING SPECIFICATION TEST PROCEDURE TO THE WP8L PRINT SET.
BL 00068	8L 1-1429>	F	AUG 69 - CHANGES THE POLARITY OF "INITIALIZE" ON THE 8L BUS TO BE 8I COMPATIBLE.
BL 00069	N.A.	M	AUG 69 - CHANGES DRILLING INSTRUCTIONS.
BL 00070	N.A.	M	SEP 69 - ADDS CHAD BOX GLUEING INSTRUCTIONS.

LEGEND

FIELD CODE

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SYMBOL

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MASTER DRAWING LIST REVISIONS

REV	ECO NUMBER	REV	ECO NUMBER
Z	8L-00059		
AA	8L-00062		
AB	H960B-00001		
AC	8L-00063		
AD	8L-00066		
AE	8L-00068		

WIRE LIST REVISIONS

REV	ECO NUMBER	REV	ECO NUMBER
P	8L-00059		
R	8L-00062		
S	8L-00068		

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B2

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MAYNARD, MASSACHUSETTS

ECO SYNOPSIS FOR LOGIC OR OPTION

PDP-8L PROCESSOR LOGIC

PDP-8L

PRODUCT LINE	PUBLICATION DATE OF THIS SYNOPSIS PAGE	PAGE REVISION
PDP-8L	JULY 1970	0

0199 R5349

ECO NO.	LOGIC OR OPTION SERIAL NO.'S AFFECTED	FIELD CODE	SYNOPSIS
BL 00071	BL 1-1911> G826 REV F>	F	SEP 69 - SPECIFIES THE REMOVAL OF THE BUS BETWEEN B27B2 AND B28B2 TO ELIMINATE BOTH -15V SUPPLIES BEING SHORTED TOGETHER BY A JUMPER ON THE G826 MODULE. *\$5.00
BL 00072	N.A.	M	SEP 69 - CHANGES THE FAN PART NUMBER AND ITS MOUNTING.
BL 00073	BL WITH 751 LOGIC ONLY	D	SEP 69 - MAKES CUSTOMER-REQUESTED CHANGES TO BL SYSTEM #754 ONLY. ALLOWS A SWITCH TO FORCE A JMS TO 0000 AND HOLDS THE PAUSE FLIP-FLOP ON FOR 1.5 USEC DURING AN IOT CYCLE.
BL 00074	BL 100-1912>	F	SEP 69 - SPECIFIES THE INSTALLATION OF ADDITIONAL GROUND WIRES TO ELIMINATE RANDOM MACHINE PROBLEMS. *\$5.00
BL 00075	>BL	M	OCT 69 - ELONGATES A HOLE IN THE FRAME TO FACILITATE MOUNTING OF THE 718 POWER SUPPLY WITHIN THE CHASSIS.

BL 00076	>BL	M	OCT 69 - CORRECTS THE MOUNTING BAR ASSEMBLY DRAWING TO INDICATE THE REQUIRED QUANTITIES OF MECHANICAL HARDWARE.
BL 00077	N.A.	M	OCT 69 - CHANGES A HOLE DIMENSION IN THE SHIPPING CRATE.
BL 00078	BL 1800-2054> FIELD RETROFIT AS REQUIRED	F	OCT 69 - ADDS KEY LOGIC TO CLEAR THE INTERRUPT SYNC FLIP-FLOP TO RESOLVE AN INABILITY TO DEPOSIT OR EXAMINE IN UPPER MEMORY WHEN AN EXTERNAL DEVICE HAS GENERATED AN INTERRUPT FOLLOWING A CP HALT WITH THE INTERRUPT ON. AN M115 MODULE WAS ADDED IN SLOT C28 BY ECO BL-00056; THE INSTALLATION OF THAT MODULE IS NECESSARY FOR PROPER MACHINE OPERATION FOLLOWING IMPLEMENTATION OF THIS ECO. *\$5.00 (ERROR CORRECTED BY ECO BL-00083)

LEGEND	
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REV	ECO NUMBER	REV	ECO NUMBER
AF	BL-00071		
AH	MISC-00031		
AJ	BL-00072		
AK	BL-00074		
AL	BL-00076		
AM	BL-00078		

WIRE LIST REVISIONS			
REV	ECO NUMBER	REV	ECO NUMBER
T	BL-00078		

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Frame 2 of 2

D2

ECO NO.	LOGIC OR OPTION SERIAL NO.'S AFFECTED	FIELD CODE	SYNOPSIS
8L 00079	>8L	M	OCT 69 - ADDS A MECHANICAL PERPENDICULARITY SPECIFICATION FOR THE BEZEL.
G020 00003	ALL G020 AFTER 11-1-69	F	SEP 69 - CHANGES THE VOLTAGE DIVIDER RESISTORS ON REVISION "E" ETCHED BOARDS TO INCREASE THE SLICE VOLTAGE FROM -3 VDC TO -4 VDC. THIS PROVIDES INCREASED STROBE MARGINS AND NOISE IMMUNITY. ERROR CORRECTED BY ECO G020-00006. *\$5.00 G020 CIRCUIT SCHEMATIC REVISION E
G021 00003	ALL G021	F	SEP 69 - CHANGES THE VOLTAGE DIVIDER RESISTORS ON ETCHED BOARDS EARLIER THAN "E" REVISION TO INCREASE THE SLICE VOLTAGE FROM -3 VDC TO -4 VDC. THIS PROVIDES INCREASED STROBE MARGINS AND NOISE IMMUNITY. ERROR CORRECTED BY ECO G021-00007. *\$5.00 G021 CIRCUIT SCHEMATIC REVISION E
8L 00080	>8L	M	NOV 69 - ENLARGES HOLES TO ALLOW SWITCHES TO OPERATE MORE FREELY.
8L 00081	>8L	M	NOV 69 - REMOVES CAPTIVE SCREWS FROM THE CHASSIS FRAME AND ADDS LOCK WASHERS INSTEAD.
BA08 00027	BA08 1-589> ALL 8L	F	NOV 69 - RE-ROUTES THE "PWR OK" RUN AND SPECIFIES REVISED G785 AND G826 MODULES TO RESOLVE A POWER FAIL PROBLEM WITH EXTRA MEMORY. BOTH BA08 AND 8L MUST HAVE G785 REVISION "E" OR LATER AND G826 REVISION "M" OR LATER.
8L 00082	8L SYSTEM #754 8L LOGIC #761	D	NOV 69 - MODIFIES IOP LOGIC AT CUSTOMER REQUEST.

BL 00083	BL 1800-2054> ALL BL WITH ECO 8L-00078	F	NOV 69 - CORRECTS AN ERROR IN ECO 8L-00078; GATES "RUN (0)" WITH KEY FUNCTIONS SO THAT "KEY LA+EX+DP" IS DISABLED WHEN THE 8L IS RUNNING.
BL 00084	N.A.	P	NOV 69 - CORRECTS THE WIRE LIST TO SHOW CURRENT LOOPS AND TWISTED PAIRS AS HAND WRAPS.
BL 00085	BL 100-2346>	F	DEC 69 - CORRECTS LOGIC AND SPECIFIES REVISIONS OF G826 AND G785 MODULES WHICH MUST BE USED TO PERMIT THE KP8L POWER FAIL OPTION TO OPERATE PROPERLY WITH MC8L. G785 REVISION E OR LATER AND G826 REVISION H ARE REQUIRED IN THE 8L. G785 REVISION E OR LATER IS REQUIRED IN THE BA08 IF IT IS PRESENT.

LEGEND

FIELD CODE

F = Field action may be required
D = Design ECO
P = Print or Wire List change
M = Mechanical ECO

SYMBOL

> = ECO applicable to future production

ECO CHARGES

Charges are coded within the synopsis. (*\$X,**\$Y,***\$Z)
\$X = Charge for Space and updated prints only
\$Y = Charge for necessary parts only
\$Z = Charge for on site labor only, installation by DEC

NOTE: Charges are additive (\$X+\$Y+\$Z = Total on site charge for ECO installation by DEC)

MASTER DRAWING LIST REVISIONS			
REV	ECO NUMBER	REV	ECO NUMBER
AN	8L-00083		
AP	8L-00084		
AR	8L-00081		
AS	8L-00085		

WIRE LIST REVISIONS			
REV	ECO NUMBER	REV	ECO NUMBER
U	8L-00083		
V	8L-00084		
W	8L-00085		

F2

EC
DEC-O-LOG

Engineering Change Order Log

ECO SYNOPSIS pages are updated and published continuously in conjunction with the issuance of ENGINEERING CHANGE ORDERS for all DEC products and are available upon subscription from:

DIGITAL EQUIPMENT CORPORATION
FIELD SERVICE INFORMATION CENTER
MAYNARD, MASSACHUSETTS 01754

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ECO SYNOPSIS FOR LOGIC OR OPTION

PDP-8L PROCESSOR LOGIC **PDP-8/L**

PRODUCT LINE	PUBLICATION DATE OF THIS SYNOPSIS PAGE	PAGE REVISION
PDP-8L	JULY 1970	0

R6082

ECO NO.	LOGIC OR OPTION SERIAL NO.'S AFFECTED	FIELD CODE	SYNOPSIS
8L 00086	>8L	M	DEC 69 - CHANGES A DIMENSION AND WELDING INSTRUCTIONS FOR THE CHASSIS FRAME.
G793 00001	ALL G793	F	JAN 70 - SPECIFIES A REDESIGN OF THE G793 WHICH WILL SEPARATE THE RESISTORS FOR BETTER HEAT DISSIPATION. HOT SPOTS OCCUR ON G793'S IN PDP-8I AND PDP-8L BECAUSE OF THEIR POSITION ABOVE THE INHIBIT RESISTORS. G793 CIRCUIT SCHEMATIC REVISION A
8L 00087	AS ORDERED	D	JAN 70 - ADDS A CUSTOMER-REQUESTED VARIATION TO THE INDICATOR PANEL.
8L 00088	8L 1-2479> WITH MC8L	F	JAN 70 - CORRECTS FAILURE OF "RMF" TO RESTORE MEMORY FIELD IF AN INTERRUPT OCCURS DURING AN IOT CYCLE WHILE THE PROGRAM IS RUNNING IN UPPER MEMORY. (*\$5.00 **\$5.00 ***\$20.00)
8L 00089	8L 2636>	F	JAN 70 - ADDS GROUNDS TO THE I/O CONNECTOR SLOTS TO REDUCE I/O LINE NOISE. THIS IS A DESIGN ECO WHICH HAS NOT BEEN IDENTIFIED AS THE SOLUTION TO ANY SPECIFIC FAILURE. (*\$5.00, **\$5.00, ***\$15.00)

EVEN

G2

BL 00090	BL 100-2516>	F	JAN 70 - TIES A FLOATING LEG OF THE M706 AT CD32 TO +3 VDC AND REMOVES -3 VDC FROM THE W076 CONNECTOR TO ELIMINATE RANDOM FAILURES WHICH OCCUR WHEN AN EXTRA CHARACTER IS ADVANCED. THE PROBLEM IS ESPECIALLY NOTICEABLE WITH TELETYPE TEST, PART 2, TEST 3.
BL 00091	BL 2597> RETROFIT IF POSITIVE BUS OPTIONS ARE INSTALLED	F	FEB 70 - ADDS A G717 PULSE TERMINATOR MODULE TO THE BL PARTS LIST SO THAT IT WILL BE AVAILABLE WHEN OPTIONS ARE ADDED TO THE BL I/O BUS. (*\$5.00, **\$4.00, ***10.00)

<p style="text-align: center;">LEGEND</p> <p>FIELD CODE</p> <p>F - Field action may be required D - Design ECO P - Print or Wire List change M - Mechanical ECO</p> <p>SYMBOL</p> <p>> - ECO applicable to future production</p> <p>ECO CHARGES</p> <p>Charges are coded within the synopsis. (*\$X,**\$Y,***\$Z) \$X - Charge for Space and updated prints <u>only</u> \$Y - Charge for necessary parts <u>only</u> \$Z - Charge for on site labor <u>only</u>, installation by DEC</p> <p>NOTE: Charges are additive (\$X+\$Y+\$Z = <u>Total</u> on site charge for ECO installation by DEC)</p>	MASTER DRAWING LIST REVISIONS		WIRE LIST REVISIONS																		
	<table border="1"> <thead> <tr> <th>REV</th> <th>ECO NUMBER</th> </tr> </thead> <tbody> <tr> <td>AT</td> <td>BL-00088</td> </tr> <tr> <td>AU</td> <td>BL-00089</td> </tr> <tr> <td>AV</td> <td>BL-00090</td> </tr> <tr> <td>AW</td> <td>BL-00091</td> </tr> </tbody> </table>	REV	ECO NUMBER	AT	BL-00088	AU	BL-00089	AV	BL-00090	AW	BL-00091		<table border="1"> <thead> <tr> <th>REV</th> <th>ECO NUMBER</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>BL-00088</td> </tr> <tr> <td>Z</td> <td>BL-00089</td> </tr> <tr> <td>AA</td> <td>BL-00090</td> </tr> </tbody> </table>	REV	ECO NUMBER	Y	BL-00088	Z	BL-00089	AA	BL-00090
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REV	ECO NUMBER																				
Y	BL-00088																				
Z	BL-00089																				
AA	BL-00090																				

PDP-8L PAGE 9

Frame 2 of 2

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ECO NO.	LOGIC OR OPTION SERIAL NO.'S AFFECTED	FIELD CODE	SYNOPSIS
8L 00092	8L 1000-2756> ALL WITH ECO 8L-00056	F	MAR 70 - CORRECTS AN ERROR IN ECO 8L-00056; TIES "TS4 (0)" TO THE I/O PC ENABLE GATE. (FCO ONLY; INCLUDED IN THE 8L-00056 KIT)
8L 00093	>8L	M	MAR 70 - CHANGES CASTING MATERIAL FROM ALUMINUM TO PLASTIC.
8L 00094	>8L	M	MAR 70 - CHANGES MOUNTING DEPTH OF THE SCREEN IN THE SUPER CHASSIS COVER.
8L 00095	>8L	M	MAR 70 - CORRECTS MECHANICAL DIMENSIONS FOR A MOUNTING BAR.
8L 00096	N.A.	M	MAR 70 - ADDS A CABINET CONFIGURATION DRAWING TO THE 8L PRINT SET.
8L 00097	8L 100-2896>	P	APR 70 - ADDS MISSING RUNS TO THE WIRE LIST.
G020 00006	ALL 8L	F	APR 70 - CORRECTS AN ERROR IN ECO G020-00003; CHANGES "SERIAL NUMBERS AFFECTED" TO "RETROFIT ALL IN-PLANT AND IN THE FIELD AND ALL FUTURE". SOME REVISIONS OF THE G020 HAVE +3 VDC SLICE AND OTHERS HAVE +4 VDC SLICE. BOTH ARE ACCEPTABLE; HOWEVER, THEY MUST NOT BE INTERMIXED. INCLUDED IN THE G020-00003 KIT
G021 00007	ALL 8L	F	APR 70 - CORRECTS AN ERROR IN ECO G021-00003; CHANGES "SERIAL NUMBERS AFFECTED" TO "RETROFIT ALL IN-PLANT AND IN THE FIELD AND ALL FUTURE". SOME REVISIONS OF THE G021 HAVE +3 VDC SLICE AND OTHERS HAVE +4 VDC SLICE. BOTH ARE ACCEPTABLE; HOWEVER, THEY MUST NOT BE INTERMIXED. INCLUDED IN THE G021-00003 KIT

8L 00098	8L 100-3120>	P	MAY 70 - CORRECTS A STATEMENT IN THE ENGINEERING SPECIFICATIONS TO READ "POWER CONSUMPTION IS LESS THAN 300 WATTS".
G020 00007	ALL 8L	F	MAY 70 - SPECIFIES A REWORKING OF THE BOARD TO ELIMINATE EXCESSIVE NOISE WHICH IS ASSOCIATED WITH THE REVISION H EYELET BOARDS. PROVIDES INSTRUCTIONS FOR FIELD REWORKING OF THE BOARDS. G020 CIRCUIT SCHEMATIC REVISION J
8L 00099	>8L	M	MAY 70 - CORRECTS MECHANICAL DIMENSION ERRORS ON THE SUPER COVER.
8L 00100	>CM8L	P	JUN 70 - CHANGES THE CM8L CARD READER SPECIFICATION FROM 80 COLUMN TO 40 COLUMN CARDS.

LEGEND

FIELD CODE
 F - Field action may be required
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 M - Mechanical ECO

SYMBOL
 > - ECO applicable to future production

ECO CHARGES
 Charges are coded within the synopsis. (*\$X,**\$Y,***\$Z)
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 NOTE: Charges are additive (\$X+\$Y+\$Z = Total on site charge for ECO installation by DEC)

MASTER DRAWING LIST REVISIONS			
REV	ECO NUMBER	REV	ECO NUMBER
AY	8L-00092		
AZ	8L-00093		
BA	8L-00096		
BB	8L-00097		

WIRE LIST REVISIONS			
REV	ECO NUMBER	REV	ECO NUMBER
AB	8L-00092		
AC	8L-00097		

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DEC-O-LOG

Engineering Change Order Log

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MAYNARD, MASSACHUSETTS

ECO SYNOPSIS FOR LOGIC OR OPTION

PDP-8/L PROCESSOR LOGIC

PDP-8/L

PRODUCT LINE	PUBLICATION DATE OF THIS SYNOPSIS PAGE	PAGE REVISION
PDP-8/L	OCTOBER 1971	B

ECO NO.	LOGIC OR OPTION SERIAL NO.'S AFFECTED	FIELD CODE	SYNOPSIS
8L 00101	N.A.	P	AUG 70 - CORRECTS THE DRAWINGS FOR THE BEZEL AND THE BEZEL INDICATOR PANEL.
8L 00102	>8L	M	AUG 70 - SPECIFIES THE USE OF AN ALUMINUM CASTING BECAUSE OF THE EXCESSIVE FLEXIBILITY OF THE PLASTIC BEZEL.
8L 00103	>8L	M	SEP 70 - SPECIFIES THE USE OF VARIATIONS OF THE STANDARD BLANK PANEL FOR THE 8L.
8L 00104	>8L	M	OCT 70 - SPECIFIES THE USE OF SCOTCHWELD #2216 TO REPLACE MARBOND ADHESIVE WHICH IS NO LONGER AVAILABLE.
8L 00105	N.A.	P	OCT 70 - ADDS IN-PLANT TEST AND ACCEPTANCE PROCEDURES TO THE CM8L PRINT SET.
8L 00106	8L 100-3124 500-5051 RETROFIT 8L WITH DF32-D OR TC00	F	OCT 70 - ADDS TERMINATION FOR THE I/O BITS; AN M902YA FOR THE MB BITS AND AN M902YB FOR THE AC BITS. (0\$5.00, 00\$25.00, 000\$5.00)

8L 00107	N.A.	F	DEC 70 - PROVIDES A MINOR ADDITIONAL PRINT CORRECTION TO ECO 8L-00062. (*S.00, **NONE, ***S.00 INCLUDED IN THE 8L-00059 KIT)
8L 00108	>8L	M	DEC 70 - SPECIFIES A CHANGE FROM SAND CASTING TO DIE CASTING OF THE 8L HEZEL.
8L 00109	>8L	D	JAN 71 - CHANGES THE WIRING OF 8I LOGIC PANELS TO ACCOMMODATE THE FEED HOLE STROBED PCB4 WHEN IT BECOMES AVAILABLE. THIS ECO WILL NOT BE FIELD IMPLEMENTED! IDENTICAL FIELD MODIFICATION INSTRUCTIONS ARE INCLUDED IN THE KIT FOR ECO PCB4-C0046.
8L 00110	N.A.	P	FEB 71 - ORDERS CHANGES IN THE 8I PRINT SET TO REFLECT THE WIRING CHANGES MADE TO ACCOMMODATE THE FEED HOLE STROBED PCB4 (PC41, PR81). THIS ECO WILL NOT BE FIELD IMPLEMENTED! IDENTICAL INFORMATION IS INCLUDED IN THE KIT FOR ECO PCB4-C0046.

LEGEND

FIELD CODE
 F - Field action may be required
 D - Design ECO
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 M - Mechanical ECO

SYMBOL
 > - ECO applicable to future production

ECO CHARGES
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 SX - Charge for Specs and updated prints only
 SY - Charge for necessary parts only
 SZ - Charge for on site labor only installation by DEC

NOTE: Charges are additive (SX+SY+SZ = Total) on site charge for ECO installation by DEC)

MASTER DRAWING LIST REVISIONS			
REV	ECO NUMBER	REV	ECO NUMBER
BC	4ISC- 064		
BD	8L-00102		
BE	8L-00106		
BF	8L-00107		
BH	8L-00108		
BJ	8L-00109		
BK	8L-00110		

WIRE LIST REVISIONS			
REV	ECO NUMBER	REV	ECO NUMBER
AD	8L-00109		

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digital EQUIPMENT
CORPORATION
MAYNARD MASSACHUSETTS

Engineering Change
Order Log
E
C
DEC-0-LOG

8/L

PDP-8/L Processor
Logic

1343 R638

PROCESSOR TYPE PDP-8/L

8L-00111 CODE: P
APR-71 - CORRECTION 1: General operation specifications of the CM8L optical mark reader are being changed.
PROBLEM 2: Optical mark data card specifications must be added.
CORRECTION 2: Add card specification A-SP-CM8-L-7.
CORRECTION 3: Add Incoming Inspection Procedure to prints.
In-plant effectivity -06 documentation change only.

8L-E0112 CODE: F ML: BL
JUN-71 - PROBLEM: When clearing TTY KEYBOARD flag, READER RUN is set, causing tape to advance. This is undesirable in some programming situations.
CORRECTION: Clear the flag with I0P4 (read buffer) and set READER RUN with I0P2.
In-plant effectivity -01 phase-in
Field effectivity -Retrofit only at request and expense of customer
(Time To Install And Test .5 Hour) Documentation \$ 5.00 , Parts None
(Kit Contents -FCO/Prints)

8L-C0113 CODE: F ML: BM WL: AE
JUN-71 - PROBLEM: Extended address bits "0 " and "1 " are open collector and have no pull-up resistors when a BM8-L is installed.
CORRECTION: Wire in clamp loads which are available in the PDP 8/L.

NOTE: Kit will be included with BM8-L add-on.
In-plant effectivity -03 rework immediately
Field effectivity -Only when a BM8-L memory expansion is installed.
(Time To Install And Test Varies With System Configuration)
(Kit Contents -FCO Only)

m 2

FCCO'S

EQUIPMENT CORPORATION
ENGINEERING
CHANGE ORDER

REC'D. BY INFO. SER.

MO.	DAY	YR.
10	11	68

SPECO RELEASE

MO.	DAY	YR.
10	16	68

TYPE OF CHANGE
ELECTRICAL
MECHANICAL
MODULES

CHANGE NO. 8L-00013
DOCUMENTATION PROJECT NUMBER
ACT PROD. LINE TYPE OR DISCRETE NO.

2	6	0	7	1	7	5
---	---	---	---	---	---	---

MANUFACTURING PROJECT NUMBER
ACT PROD. LINE TYPE OR DISCRETE NO.

--	--	--	--	--	--	--

UNIT NAME 8L MODEL NO. 8L

PREWIRED OPTIONS AFFECTED

MODEL NO.	VARIATION

CHANGE TESTED IN SERIAL NO. _____ BY _____
ESTIMATED TIME TO INSTALL 1/2 Hour
PARTS ADDED OR DELETED (IF YES REFER TO SEPARATE SHEET) YES NO
SHOP MODEL AFFECTED
SYSTEMS PROGRAMS AFFECTED
DIAGNOSTIC PROGRAMS AFFECTED
TECHNICAL PUBLICATIONS AFFECTED

BREAK-IN POINT (DATE/SERIAL NOS)

ALL MACHINES
SERIAL NO. 100-199
AND FUTURE

PROBLEM:

1. RACE CONDITION AT IOP4 CAUSED BY I/O ON (1) AND IOP C (0) BEING GENERATED AT SAME TIME BY I/O ROTATE

DRAWINGS AFFECTED

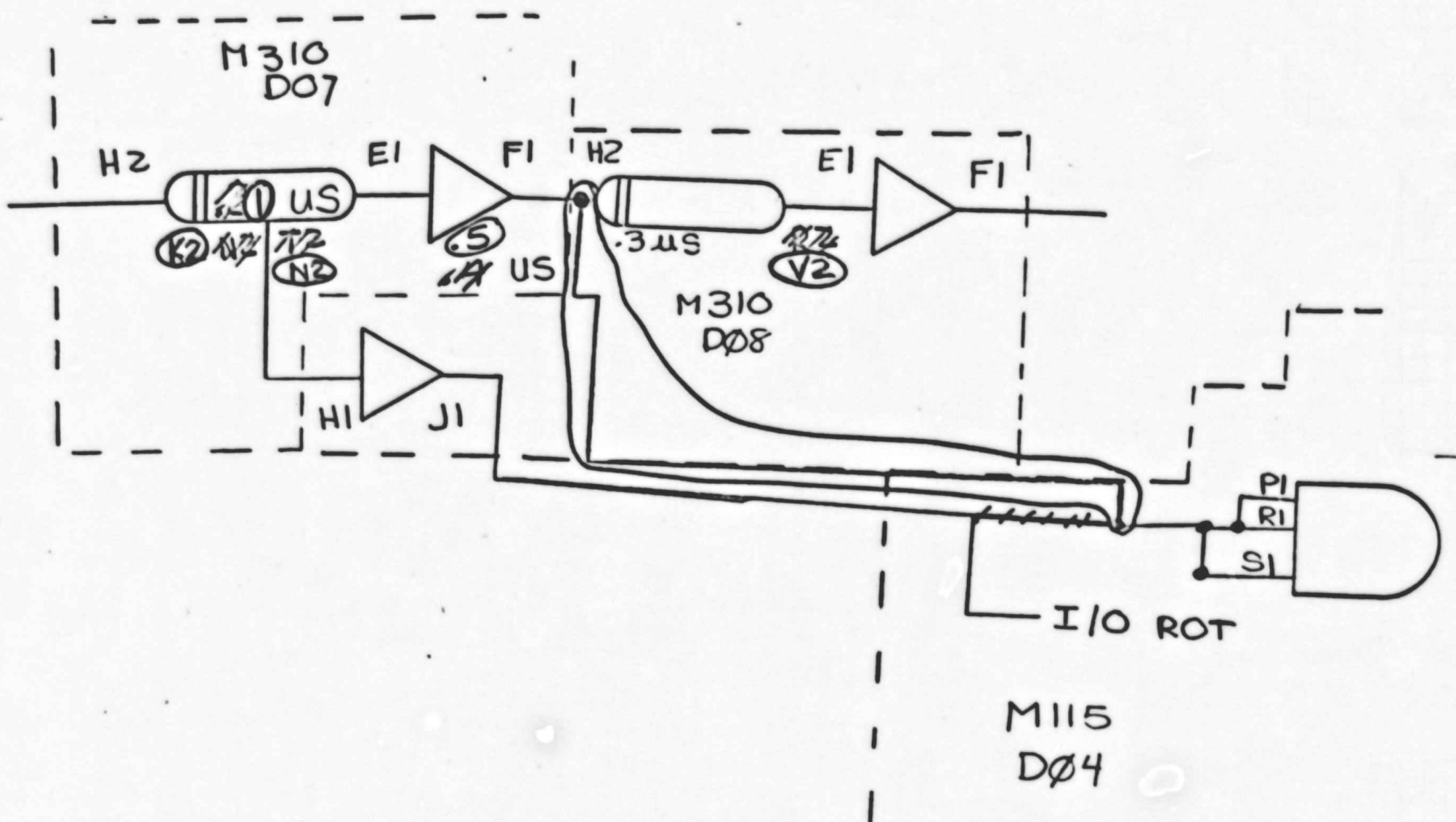
NUMBER	OLD REV.	NEW REV.
D-ES-8L-0-2	B	C
K-WL-8L-0-19	B	C

CORRECTION:

CORRECTED I/O TIMING.

ORIGINATOR M. E. Arsenault DATE 10-12-68
PRODUCTION ENG. H. Godfrey DATE 10-12-68
DESIGN ENG. D. A. White 1 DATE 10-12-68
OTHER _____ DATE _____

PRODUCT LINES AFFECTED
SMALL COMPUTERS (8L)



21 Nov 70

21 Nov 70

> BS-84-0-2 ECO# 84-00013

New
Rev
C

ADD/DELETE SHEET

MAKE ALL DELETIONS FIRST

PAGE 1 OF 1

COLOR	SIGNAL NAME	FROM PIN	TO PIN	COMPONENTS	ADD	DEL
	D07E1	D07E1	D07T2			✓
	↓	D07E1	D07N2		✓	
	D07F1	D04P1	D04R1		✓	
	↓	D04R1	D04S1		✓	
	↓	D04S1	D07F1		✓	
	D07N2	D07N2	D08H1			✓
	D07K2	D07K2	D08H1		✓	
	D08R2	D08E1	D08R2			✓
	D08V2	D08E1	D08V2		✓	
	I/O ROT	D08J1	D04P1			✓
	↓	D04P1	D04R1			✓
	↓	D04R1	D04S1			✓

ECO NUMBER 8L-00013

MADE BY Betty Vidito

DRAWING NUMBER AFFECTED			
CODE	SIZE	NUMBER	NEW REV LTR
WL	K	8L-0-19	C

E3

**ENGINEERING
CHANGE ORDER**



EQUIPMENT CORPORATION

REC'D. BY INFO. SER. 11 15 68
SPECO RELEASE 11 26 68

MO	DAY	YR
11	15	68
11	26	68

TYPE OF CHANGE

ELECTRICAL	<input checked="" type="checkbox"/>
MECHANICAL	<input type="checkbox"/>
MODULES	<input type="checkbox"/>

CHANGE NO. 8L-00022

DOCUMENTATION PROJECT NUMBER

ACT	PROD. LINE	TYPE OR DISCRETE NO.
2	6	07175

MANUFACTURING PROJECT NUMBER

ACT	PROD. LINE	TYPE OR DISCRETE NO.

UNIT NAME PDP 8L MODEL NO. PDP 8L

PREWIRED OPTIONS
AFFECTED

MODEL NO.	VARIATION

CHANGE TESTED
IN SERIAL NO. _____ BY _____

ESTIMATED TIME TO INSTALL 1.5 HOURS

PARTS ADDED OR DELETED
(IF YES REFER TO SEPARATE SHEET)

- SHOP MODEL AFFECTED
- SYSTEMS PROGRAMS AFFECTED
- DIAGNOSTIC PROGRAMS AFFECTED
- TECHNICAL PUBLICATIONS AFFECTED

YES	NO
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

BREAK-IN POINT
(DATE/SERIAL NOS)

ALL PDP 8L. SN 101 THRU
325 AND FUTURE.

PROBLEM:

1. COULD NOT SET EA LIGHT WITH L.A. SWITCH WHEN EX. MEM. OPTION ADDED.
2. L.A. SWITCH WAS LOADING S.R. INTO M.B. & M.A.
3. COULD NOT PROTECT MEM. EX. LAST PAGE OF MEMORY WITH PROTECT SWITCH.
4. MEMORY WAS NOT PROTECTED DURING 3 CYCLE BREAK
5. WIRE LIST ERRORS.

CORRECTION:

1. CHANGED TIMING ON KEY CL. & KEY LOAD
2. ADDED GATE AT C15.
3. CHANGED EMA TO BEMA. ADDED LOGIC TO MC8L LOGIC
4. ADDED WORD COUNT D TO PROTECT GATE.
5. CORRECT WIRE LIST.

DRAWINGS AFFECTED

NUMBER	REV.	
	OLD	NEW
K-WL-PDP8-L-19	E	F
A-ML-PDP8-L	E	F
D-MU-PDP8-L-18	D	A
D-BS-PDP8-L-2	C	D
D-BS-PDP8-L-3	A	B
D-BS-PDP8-L-4	A	B
D-BS-PDP8-L-17	A	B
A-PL-PDP8-L-18	D	A

ORIGINATOR M. ARSENAULT DATE 11/15/68
 PRODUCTION ENG. H. GODFREY DATE 11/15/68
 DESIGN ENG. DON WHITE DATE 11/15/68
 OTHER FRANK PURCELL DATE 11/15/68

PRODUCT LINES AFFECTED

PDP 8L

F3

ADD/DELETE SHEET

MAKE ALL DELETIONS FIRST

PAGE 1 OF 3

COLOR	SIGNAL NAME	FROM PIN	TO PIN	COMPONENTS	ADD	DEL
	BEMA	B35T2	C10T2		✓	
		C10T2	C26P2		✓	
	CØ5N2	CØ5N2	DØ4V2			✓
		CØ5N2	CØ6K1		✓	
	C15F1	C15F1	B13E2		✓	
	DØ4U1	DØ4U1	DØ4V2		✓	
		DØ4U1	CØ6K1			✓
	DØ7F1	DØ4P1	DØ4R1			✓
		DØ4R1	DØ4S1			✓
		DØ4S1	DØ7F1			✓
		CØ5L2	CØ5M2		✓	
		CØ5M2	DØ7F1		✓	
	\overline{EMA}	B35V2	C26P2			✓
		C26P2	C10T2			✓
	+3V (1)	CØ2V1	CØ2U1			✓
		CØ2V1	CØ2M1		✓	
		CØ2M1	CØ2U1		✓	
	KEY EX + DP	DØ2D1	DØ9H1			✓

ECO NUMBER 8L-00022

MADE BY ELAINE FROIAS

DRAWING NUMBER AFFECTED

CODE	SIZE	NUMBER	NEW REV LTR.
WL	K	PDP8-L-19	F

G3

ADD/DELETE SHEET

MAKE ALL DELETIONS FIRST

PAGE 2 OF 9

COLOR	SIGNAL NAME	FROM PIN	TO PIN	COMPONENTS	ADD	DEL
	KEY EX + DP	DØ9H1	B10M2			✓
		DØ2D1	B10M2		✓	
	KEY LA1EX + DP	CØ2K2	DØ9H1		✓	
	<u>KEY LA</u>	CØ2J2	CØ2M1			✓
		CØ2M1	DØ2A1			✓
		CØ2J2	DØ2A1		✓	
	<u>MEM ALT 1</u>	CØ5L2	A1ØT2			✓
		A1ØT2	DØ4P1		✓	
	<u>MEM ALT 2</u>	CØ5M2	A12T2			✓
		A12T2	DØ4R1		✓	
	MFTP Ø	CØ2T2	C15U2		✓	
	MFTP 1	CØ5R2	C15U2			✓
		CØ5R2	D17L2		✓	
		D17L2	D17K2		✓	
	MFTP 2	D17L2	D17K2			✓
		D17K2	D12A1			✓

ECO NUMBER <u>BL-00022</u> MADE BY <u>ELAINE FROIAS</u>	DRAWING NUMBER AFFECTED																
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">CODE</th> <th style="width: 10%;">SIZE</th> <th style="width: 50%;">NUMBER</th> <th style="width: 30%;">NEW REV LTD</th> </tr> </thead> <tbody> <tr> <td>WL</td> <td>K</td> <td>PDPB-L-19</td> <td>F</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	CODE	SIZE	NUMBER	NEW REV LTD	WL	K	PDPB-L-19	F								
CODE	SIZE	NUMBER	NEW REV LTD														
WL	K	PDPB-L-19	F														

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ADD/DELETE SHEET

MAKE ALL DELETIONS FIRST

PAGE 3 OF 3

COLOR	SIGNAL NAME	FROM PIN	TO PIN	COMPONENTS	ADD	DEL
	MFTS Ø	DØ9J1	B13E2			✓
	MFTS 1 (Ø)	CØ3K2	DØ4F1			✓
	↓	CØ3K2	C15D1		✓	
		C15D1	DØ4F1		✓	
	MFTS 2 (Ø)	CØ3H2	DØ4H1			✓
	MFTS 2 (Ø)	C15E1	CØ3H2		✓	
	↓	C15E1	DØ4H1		✓	
	WORD COUNT (Ø)	DØ2S2	D1ØR2			✓
	↓	DØ2S2	DØ4S1		✓	
	↓	DØ4S1	D1ØR2		✓	

ECO NUMBER BL-00022

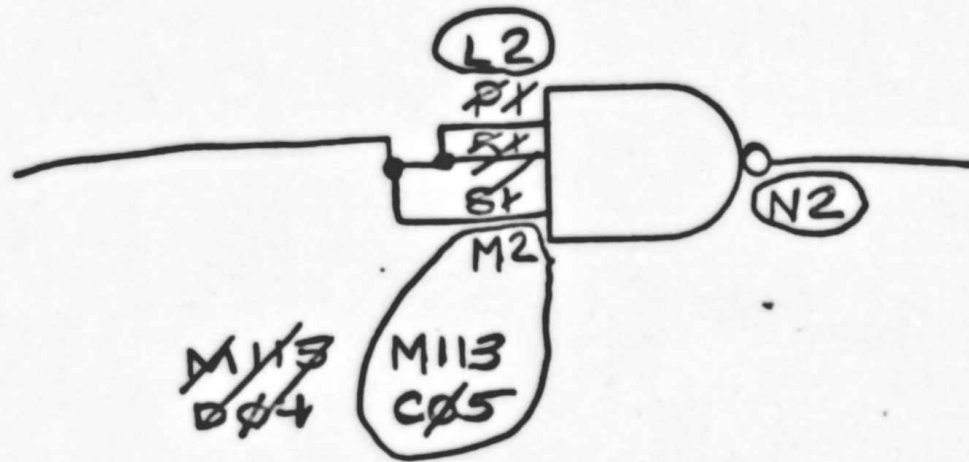
MADE BY ELAINE FROIAS

DRAWING NUMBER AFFECTED

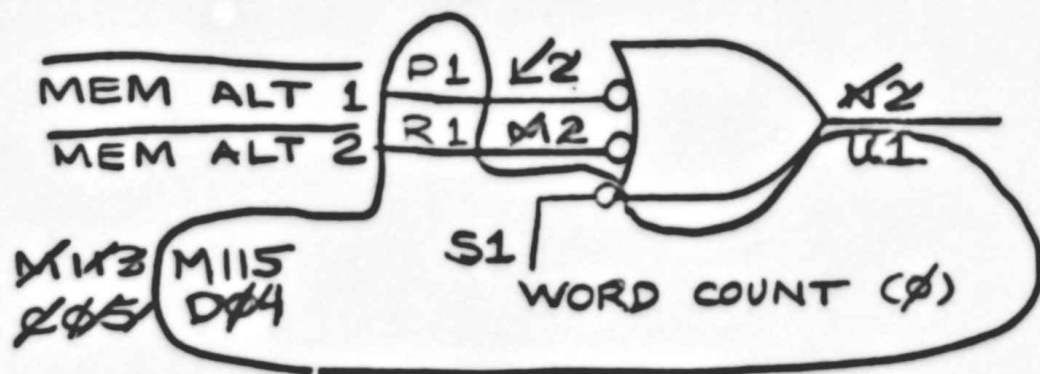
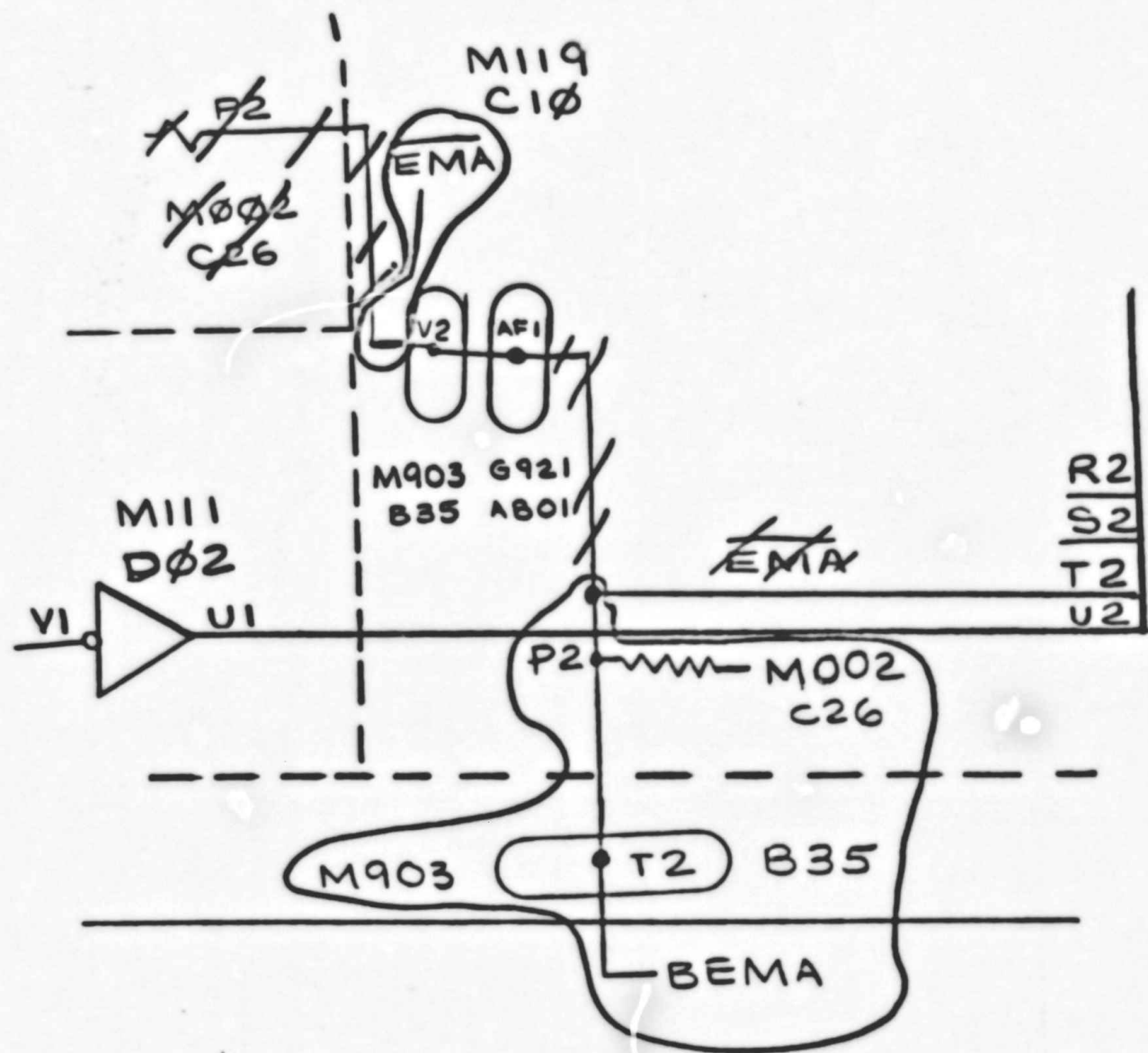
CODE	SIZE	NUMBER	NEW REV LTR.
WL	K	PDP8-L-19	F

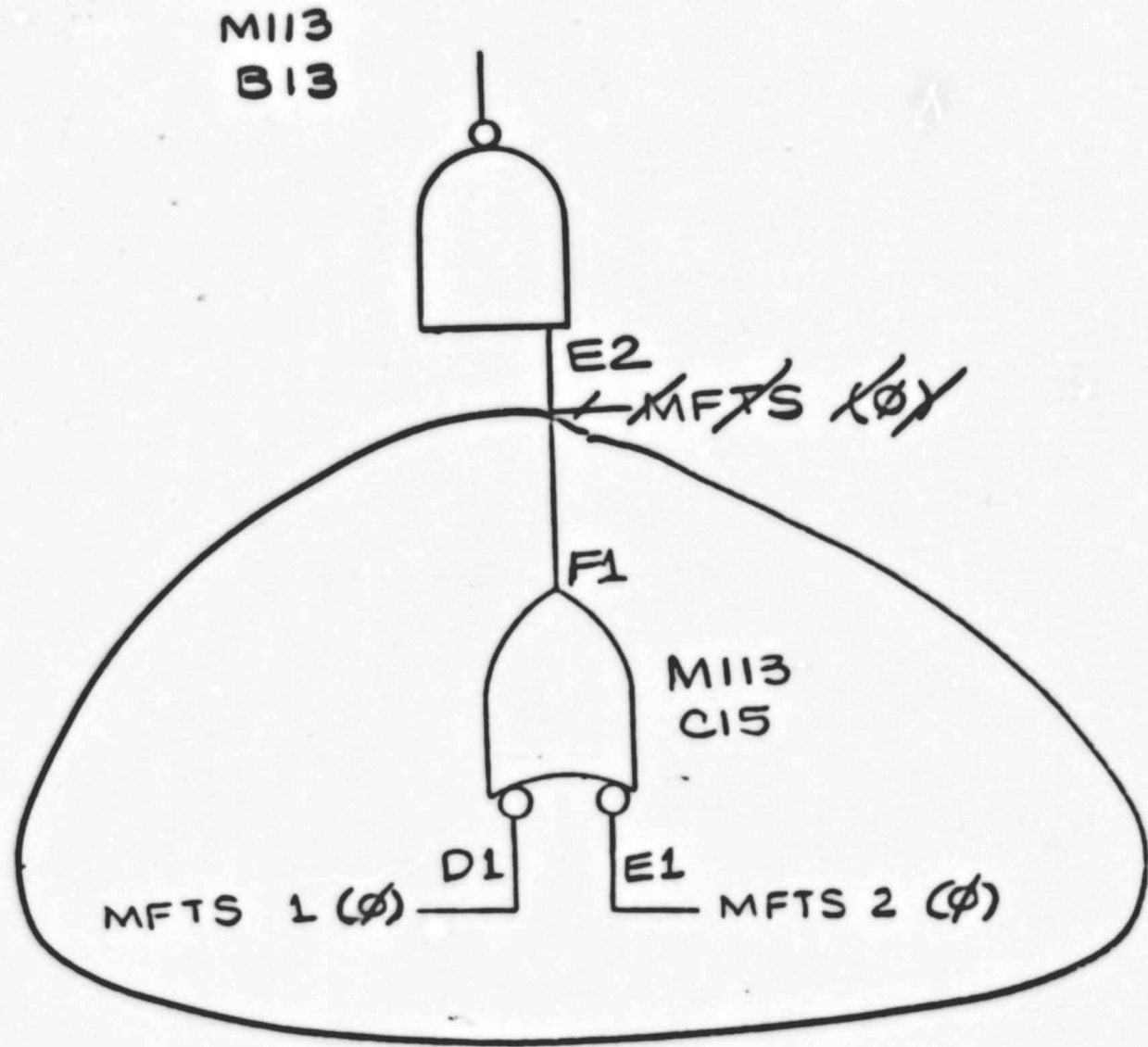
13

DWG. NO.	NEW REV.	OLD REV.
D-BS-PDP8-L-2	D	C
D-BS-PDP8-L-3	B	A
D-BS-PDP8-L-4	B	A
D-BS-PDP8-L-17	B	A
D-MU-PDP8-L-18	A	Ø
A-PL-PDP8-L-18	A	Ø
K-WL-PDP8-L-19	F	E



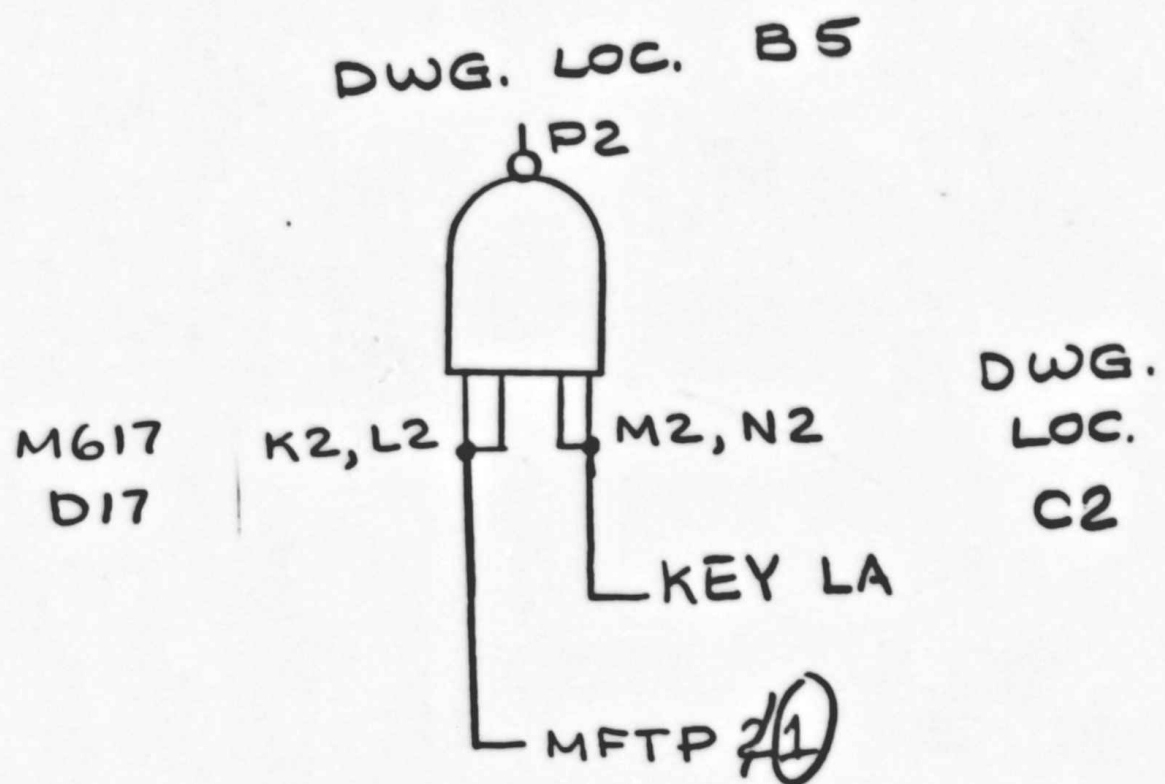
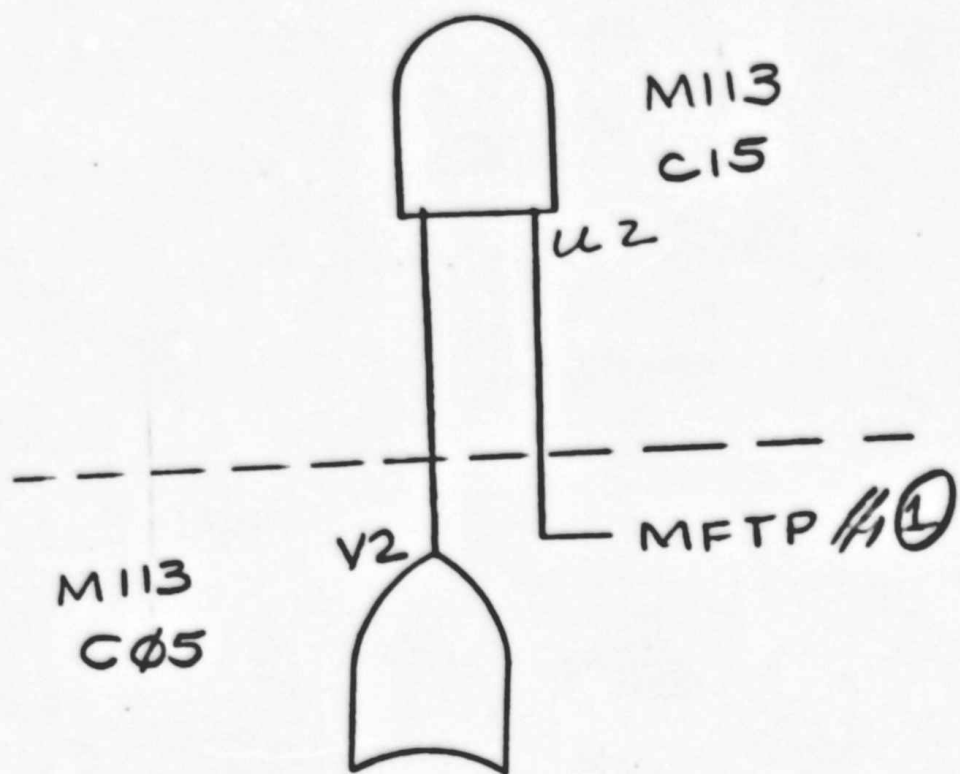
x3



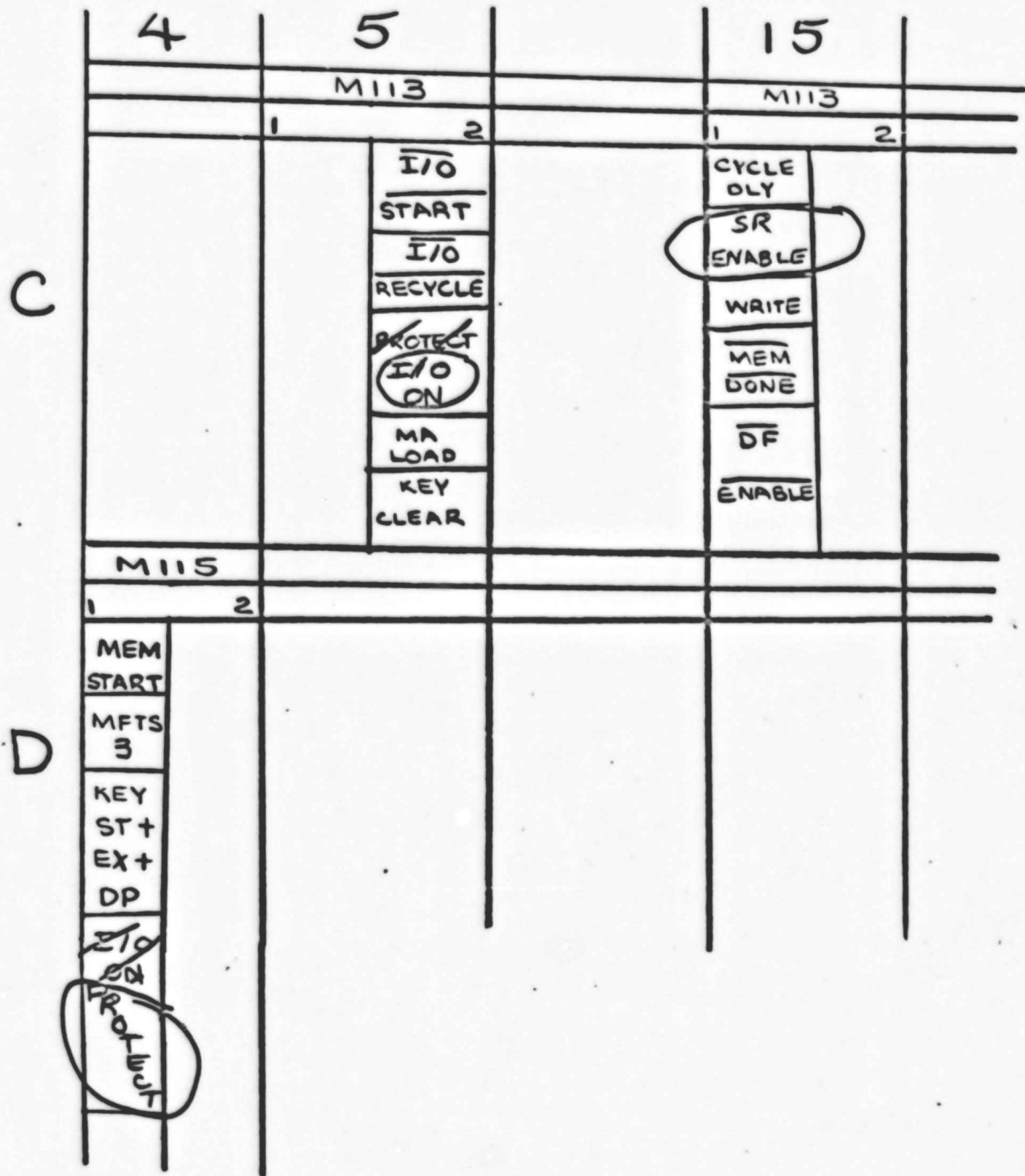


DWG LOC A-4

m3



BY



MASTER DWG LIST

DWG NO.	NEW REV.
D-DI-8L-0-20	B
M-WL-8L-0-19	H
A-WL-8L-0-24 (TWISTED PAIRS)	Ø

ECO 8L-00027

A-ML-8L-0

NEW
REV
L

F4

ADD/DELETE SHEET

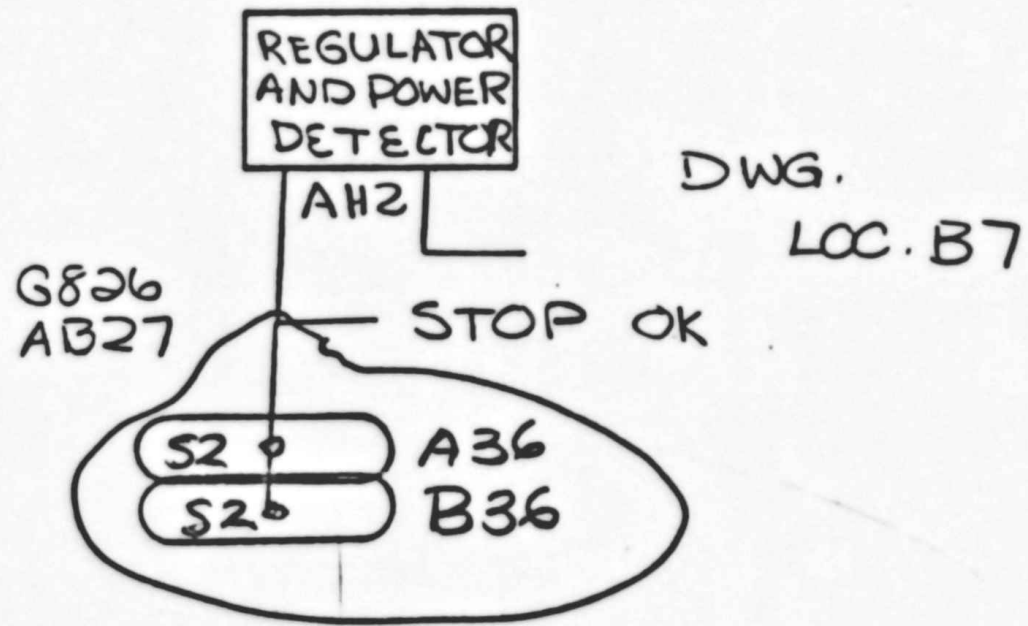
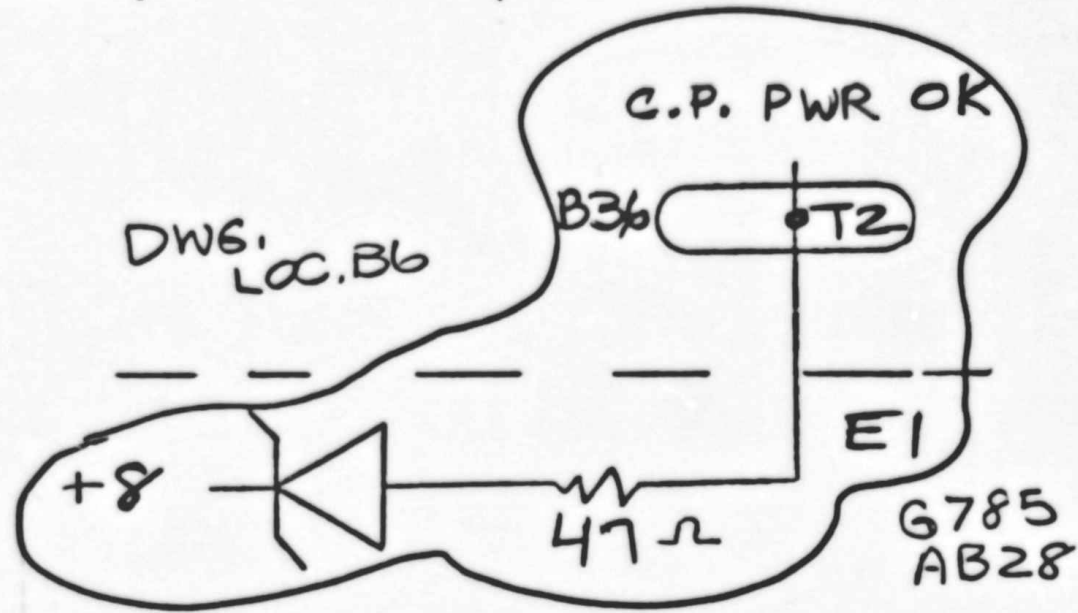
MAKE ALL DELETIONS FIRST

PAGE 1 OF 2

COLOR	SIGNAL NAME	FROM PIN	TO PIN	COMPONENTS	ADD	DEL
	A21C2	A21C2	A18D2			✓
	A21D2	A21D2	A18E2			✓
	A21E2	A21E2	A18L1			✓
	A21F2	A21F2	A18M1			✓
	A21H2	A21H2	A19D2			✓
	A21J2	A21J2	A19E2			✓
	A21K2	A21K2	A19L1			✓
	A21L2	A21L2	A19M1			✓
	A21M2	A21M2	A20D2			✓
	A21N2	A21N2	A20E2			✓
	A21P2	A21P2	A20L1			✓
	A21R2	A21R2	A20M1			✓
	A21S2	A21S2	A17D2			✓
	A21T2	A21T2	A17E2			✓
	B21C2	B21C2	B18D2			✓
	B21D1	B21D2	B18E2			✓
	B21E2	B21E2	B18L1			✓
	B21F2	B21F2	B18M1			✓
	B21H2	B21H2	B19D2			✓
	B21J2	B21J2	B19E2			✓
	B21K2	B21K2	B19L1			✓
	B21L2	B21L2	B19M1			✓
	B21M2	B21M2	B20D2			✓

ECO NUMBER <u>8L-00027</u> MADE BY <u>J Hopkins</u>	DRAWING NUMBER AFFECTED																									
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">CODE</th> <th style="width: 10%;">SIZE</th> <th style="width: 40%;">NUMBER</th> <th style="width: 10%;">NEW REV</th> <th style="width: 10%;">LTR</th> </tr> <tr> <td style="text-align: center;">WL</td> <td style="text-align: center;">K</td> <td style="text-align: center;">8L-0-19</td> <td style="text-align: center;">H</td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	CODE	SIZE	NUMBER	NEW REV	LTR	WL	K	8L-0-19	H																
CODE	SIZE	NUMBER	NEW REV	LTR																						
WL	K	8L-0-19	H																							

F4



ADD/DELETE SHEET

MAKE ALL DELETIONS FIRST

PAGE 1 OF 1

COLOR	SIGNAL NAME	FROM PIN	TO PIN	COMPONENTS	ADD	DEL
	CP PWR OK	A28E1	B36T2		X	
	STOP OK	A36P2	D09K1			X
	↓	A36P2	A36S2		X	
		A36S2	B36S2		X	
		B36S2	D09K1		X	

ECO NUMBER 8L-00030

MADE BY BV/AV

DRAWING NUMBER AFFECTED			NEW REV
CODE	SIZE	NUMBER	LTR
WL	K	8L-0-19	J

MASTER DRAWING

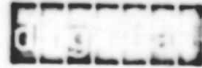
D-BS-8L-0-13	D
K-WL-8L-0-19	J

New
Rev
N

ECO # 8L-00030

A-ML-PL-0

F4



EQUIPMENT CORPORATION

ENGINEERING CHANGE ORDER

REC'D. BY INFO. SER.	MO.	DAY	YR
SPECO RELEASE	2	13	69
TYPE OF CHANGE			
ELECTRICAL	<input checked="" type="checkbox"/>		
MECHANICAL	<input type="checkbox"/>		
MODULES	<input type="checkbox"/>		

CHANGE NO. 8L-00031

DOCUMENTATION PROJECT NUMBER			
ACT	PROD. LINE	TYPE OR DISCRETE NO.	
	26	07	160
MANUFACTURING PROJECT NUMBER			
ACT	PROD. LINE	TYPE OR DISCRETE NO.	

UNIT NAME PDP-8/L MODEL NO. 8L

PREWIRED OPTIONS AFFECTED

MODEL NO.	VARIATION

CHANGE TESTED IN SERIAL NO. PROTO BY M. Arseneault

ESTIMATED TIME TO INSTALL _____

PARTS ADDED OR DELETED (IF YES REFER TO SEPARATE SHEET)	YES	NO
SHOP MODEL AFFECTED	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SYSTEMS PROGRAMS AFFECTED	<input type="checkbox"/>	<input checked="" type="checkbox"/>
DIAGNOSTIC PROGRAMS AFFECTED	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TECHNICAL PUBLICATIONS AFFECTED	<input type="checkbox"/>	<input checked="" type="checkbox"/>

BREAK-IN POINT (DATE/SERIAL NOS)
 PDP-8L WITH BA08
 SERIAL NO. 1 THRU 692
 AND FUTURE

PROBLEM:

CORRECTION TO ECO 8L-00030
 A36S2 SHOULD NOT BE WIRED TO B36S2

CORRECTION:

REMOVE A36S2 FROM RUN

DRAWINGS AFFECTED

NUMBER	OLD REV.	NEW REV.
NONE		

ORIGINATOR <u>M. Arseneault</u>	DATE <u>2-13-69</u>
PRODUCTION ENG. <u>H. Godfrey</u>	DATE <u>2-13-69</u>
DESIGN ENG. <u>M. Arseneault</u>	DATE <u>2-13-69</u>
OTHER <u>FRANK PURCELL</u>	DATE <u>2-13-69</u>

PRODUCT LINES AFFECTED

8L

ADD/DELETE SHEET

MAKE ALL DELETIONS FIRST

PAGE 1 OF 1

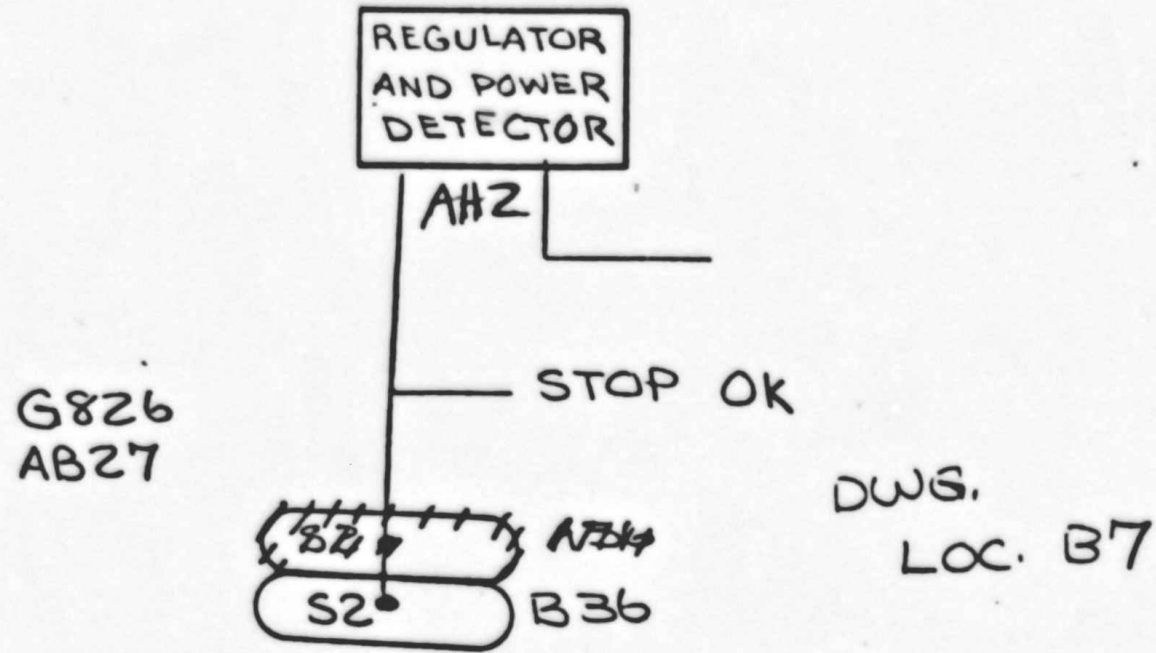
COLOR	SIGNAL NAME	FROM PIN	TO PIN	COMPONENTS	ADD	DEL
	STOP OK	A36P2	A36S2			✓
	↓	A36S2	B36S2			✓
		A36P2	B36S2		✓	

ECO NUMBER 8L-00031

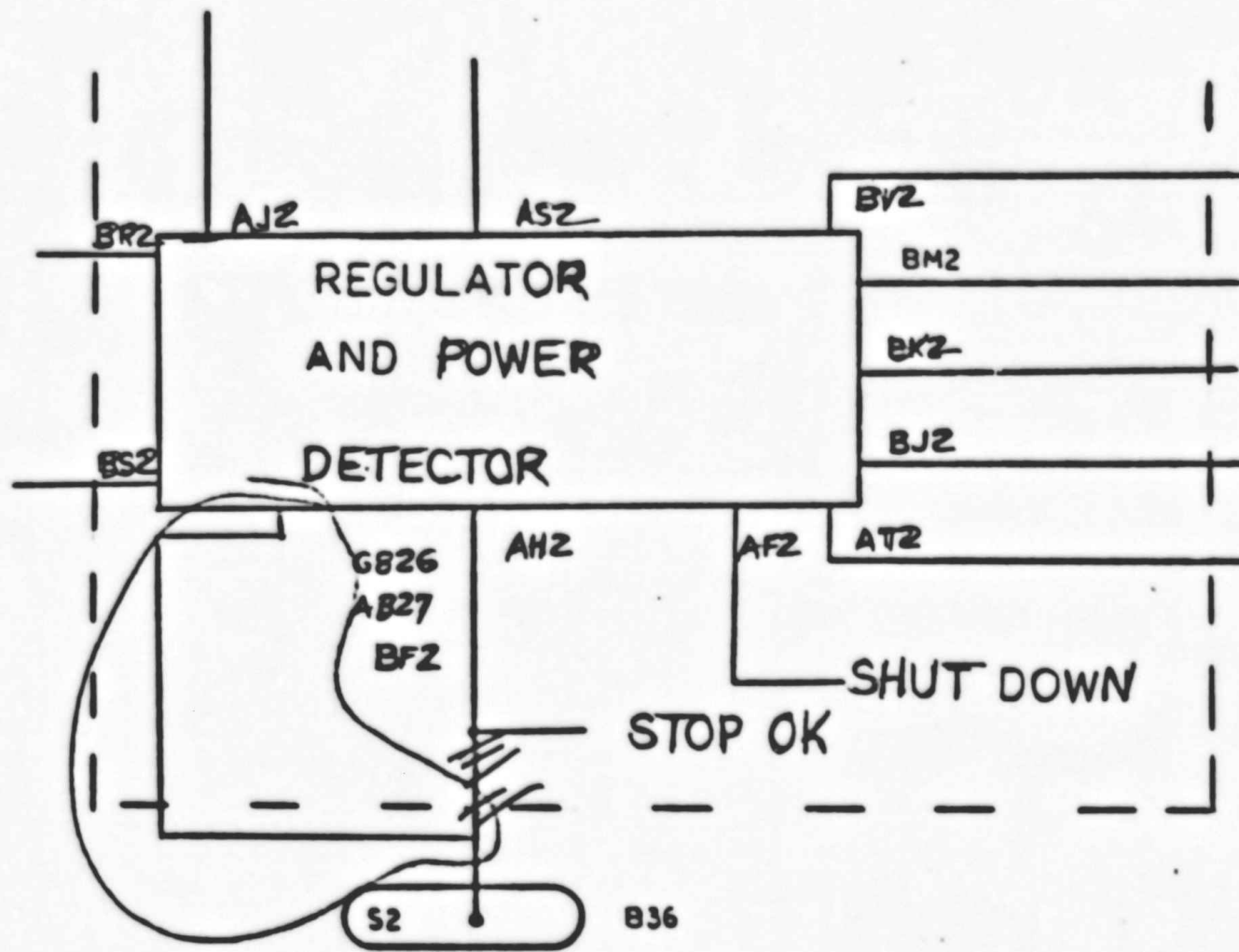
MADE BY Betty Vidito

DRAWING NUMBER AFFECTED			
CODE	SIZE	NUMBER	NEW REV LTR
WL	IC	8L-0-19	J

my



New
REV
D



DS

MASTER DRAWING LIST

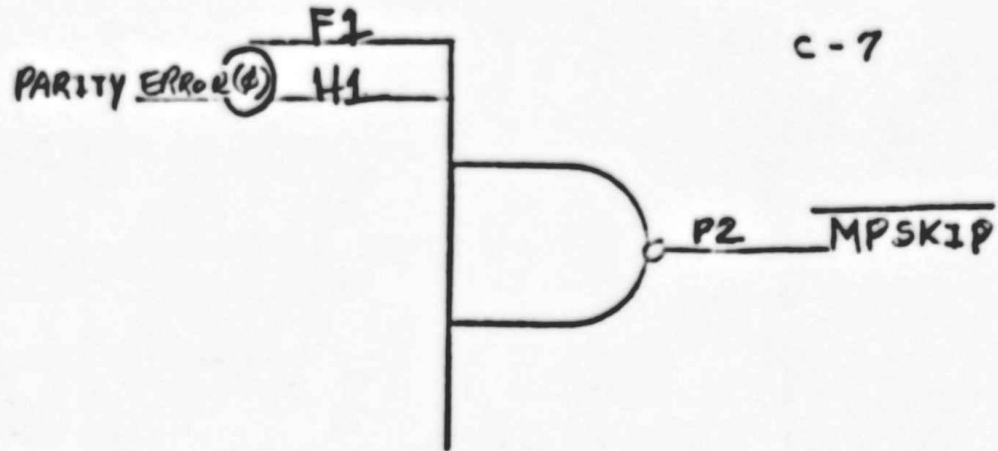
DWG NO.	REV- LET.	TITAL
D-BS-8L-Ø-13	B(E)	MEMORY CONTROL
K-WL-8L-Ø-19	S(K)	WIRB LIST (PDP 8-L)

DL 100 78

DWG. LOC.

C-7

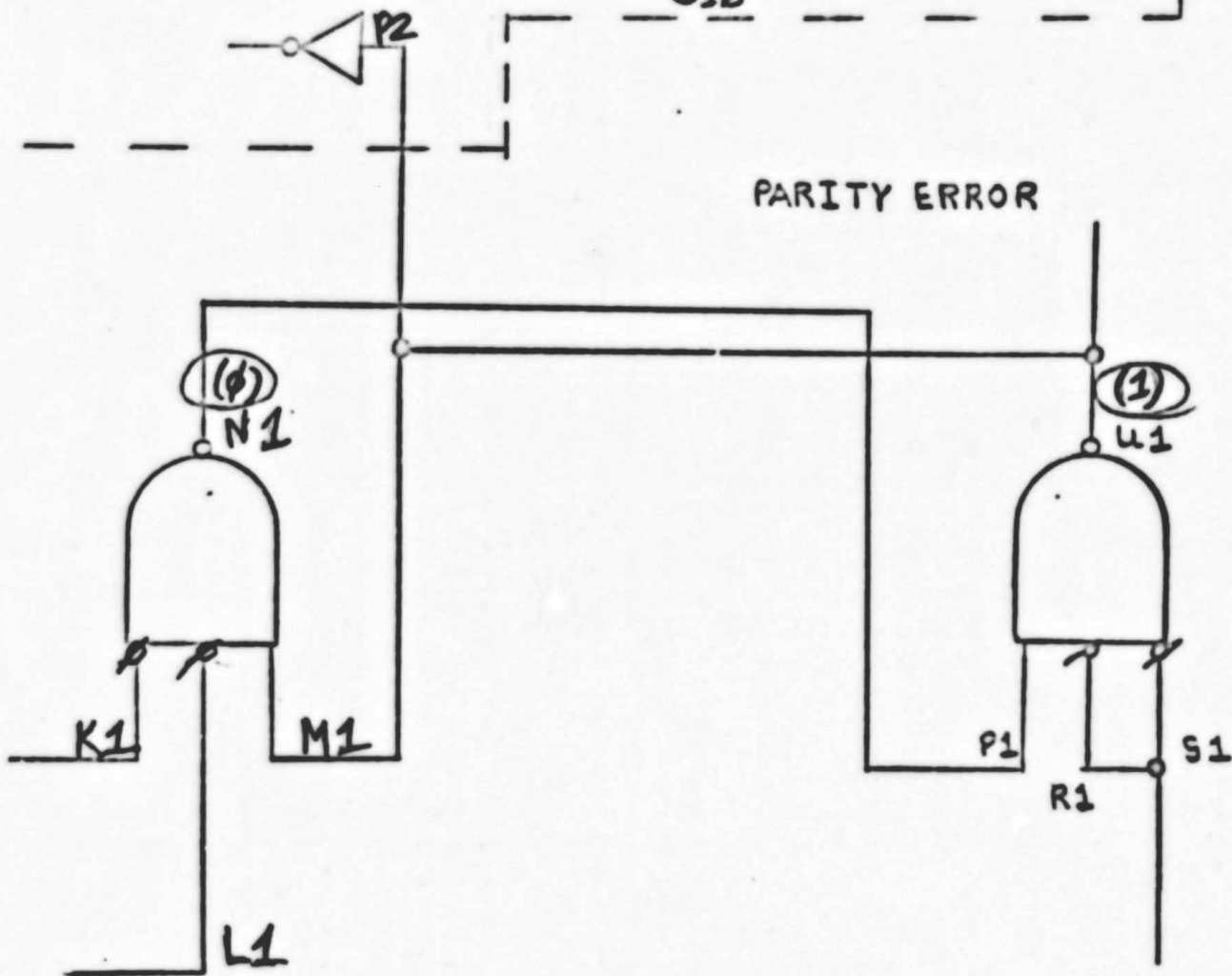
M119
B15



M112
C16

M115
A14

PARITY ERROR



DWG. LOC. D-2

SHEET 1 OF 2

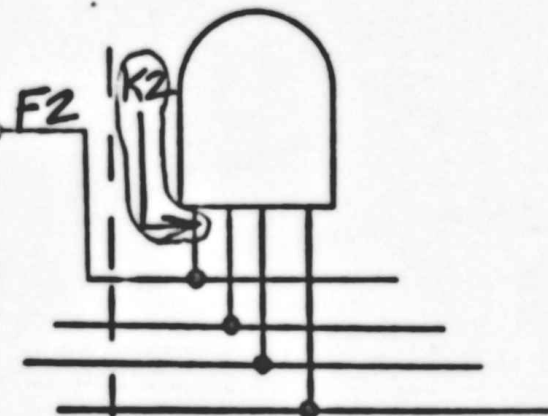
GS

M162
A15

M162
A16

M111
C16

MEM E2
8B



MISSING ON
WIRE LIST

Sheet 2 of 2

HS

MDL

DWG NO.	NEW REV
D-BS-MP8L-0-1	B

ECO # 8L-00044

A ML-MP8L-0

NEW
REV
A

IS

M.D.L.

DWG NO	NEW REV
A-WL-8L-0-19	L

ECO 8L-00044

A-ML-8L-0

NEW
REV
S

IS

ADD/DELETE SHEET

MAKE ALL DELETIONS FIRST

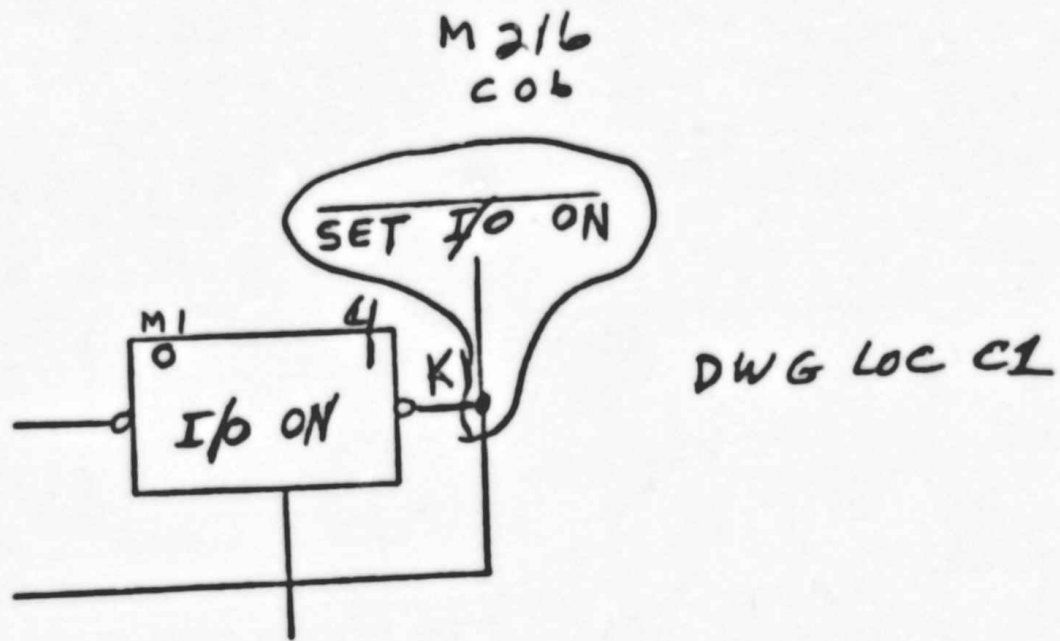
PAGE 1 OF 1

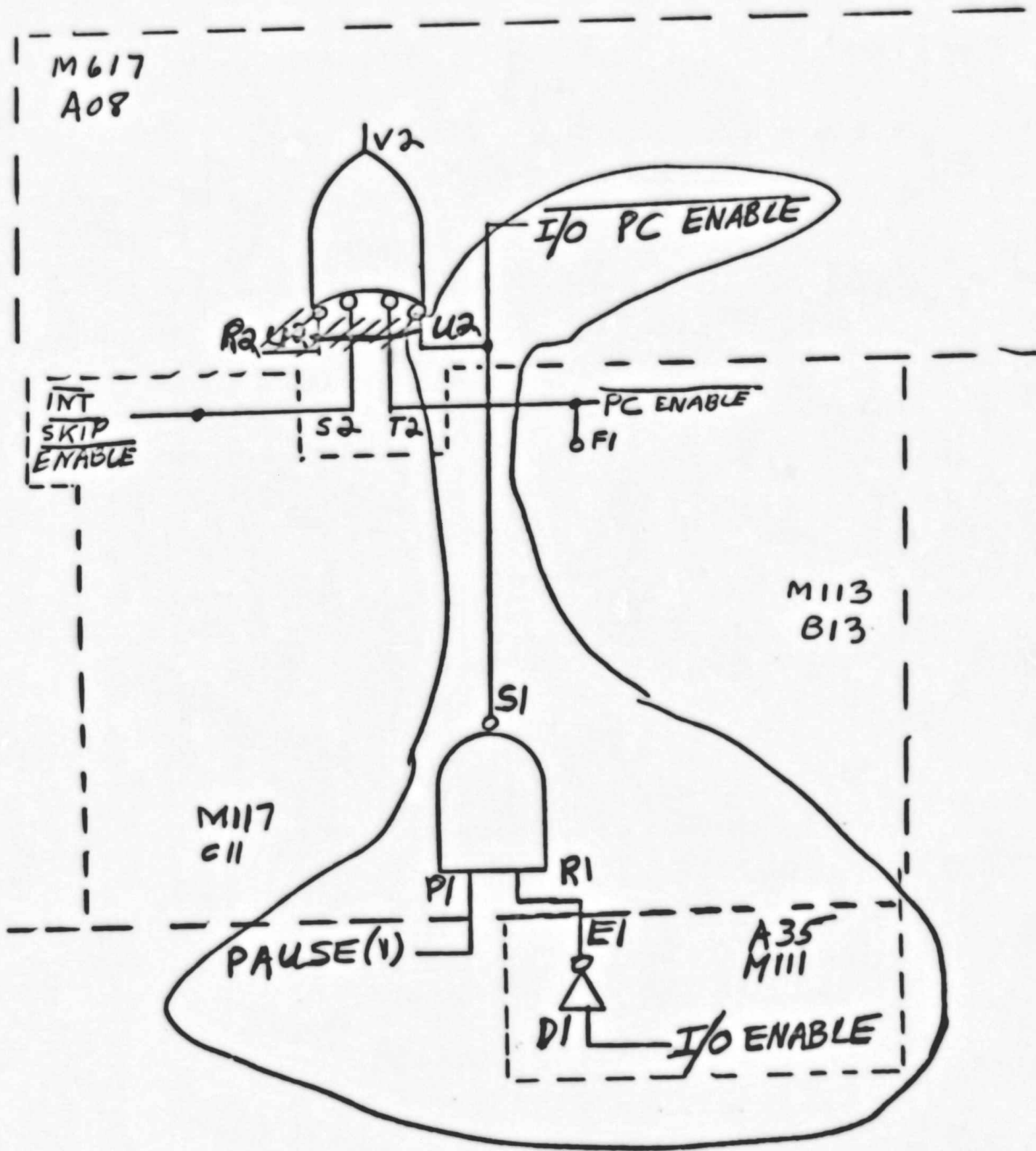
COLOR	SIGNAL NAME	FROM PIN	TO PIN	COMPONENTS	ADD	DEL
	PARITY ERROR	A 14U L	B 15H L			X
	PARITY ERROR (P)	A 14P L	B 15H L		X	
	A 16K 2	A 16K 2	C 16P 2			X
	↓	A 16K 2	C 16F 2		X	
	MEM 06	A 15S 2	B 04 R 2		X	
	MEM 07	A 15T 2	B 04 V 2		X	
	PARITY ERROR (L)	A 14U L	C 16P 2		X	

ECO NUMBER 86-00044
 MADE BY J.W. PATE

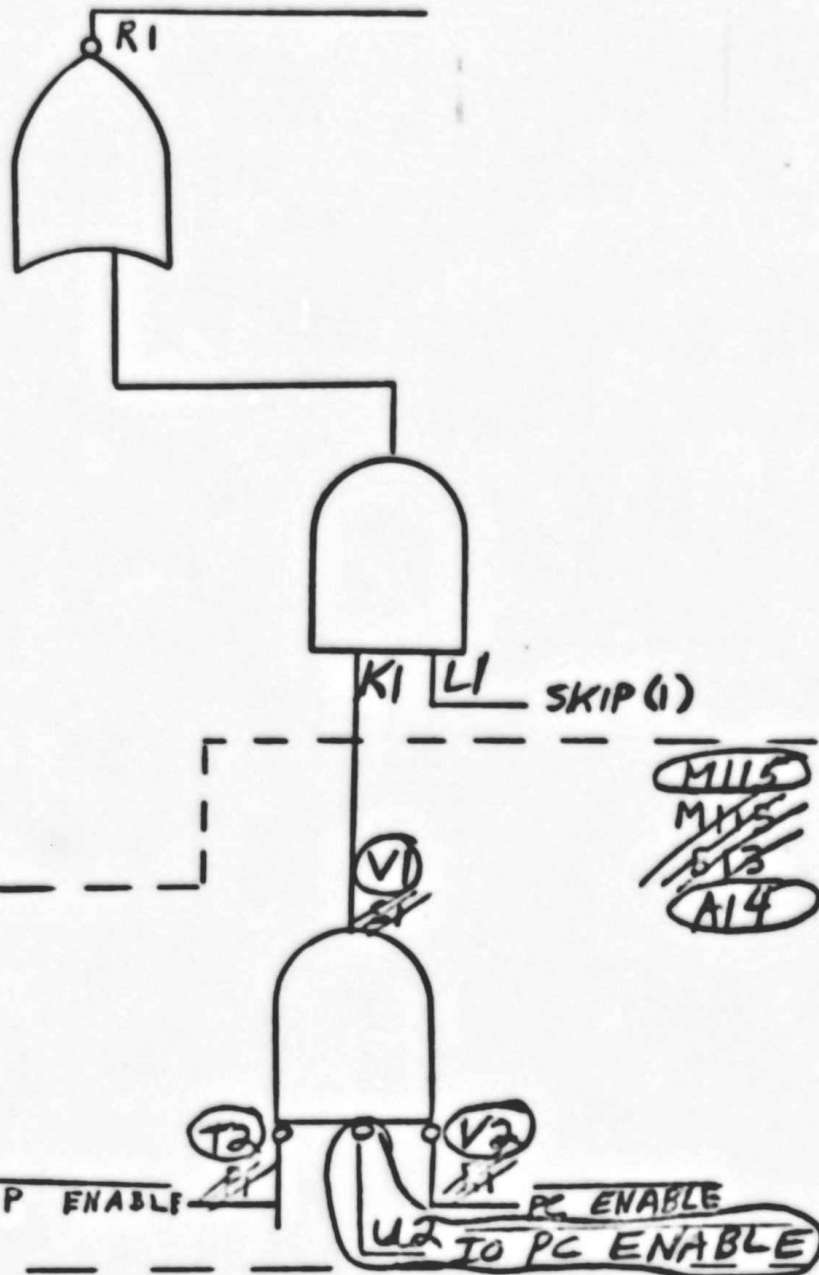
DRAWING NUMBER AFFECTED			
CODE	SIZE	NUMBER	NEW REV LTR.
K		WL-86-0-19	L

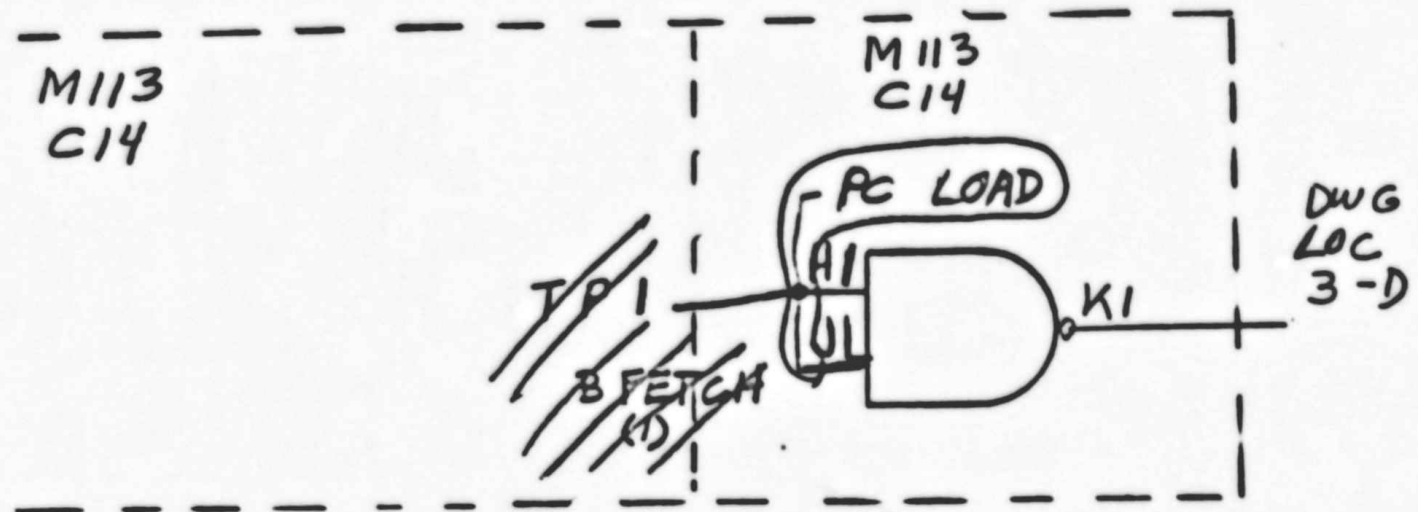
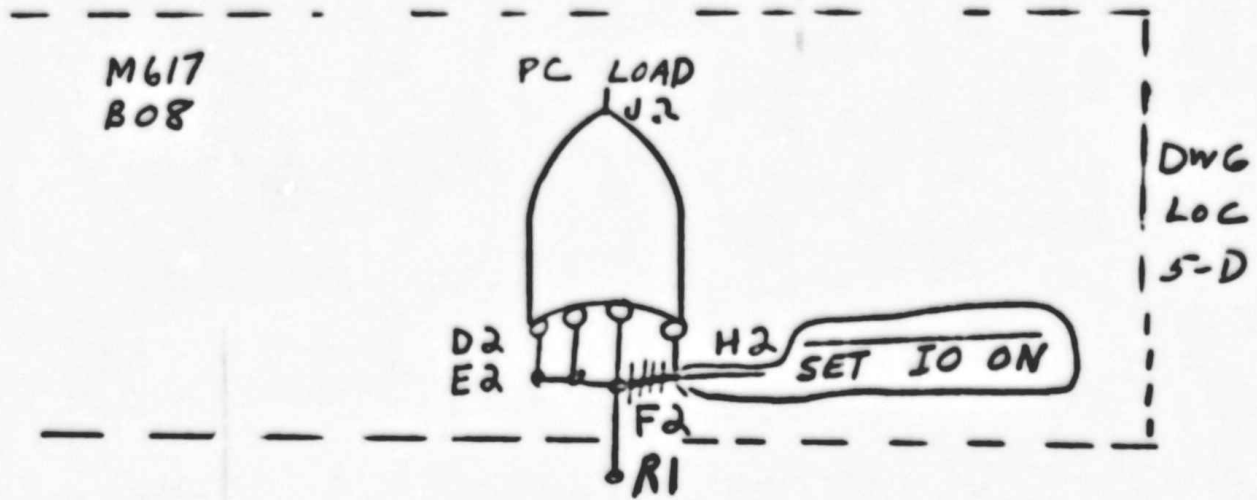
25





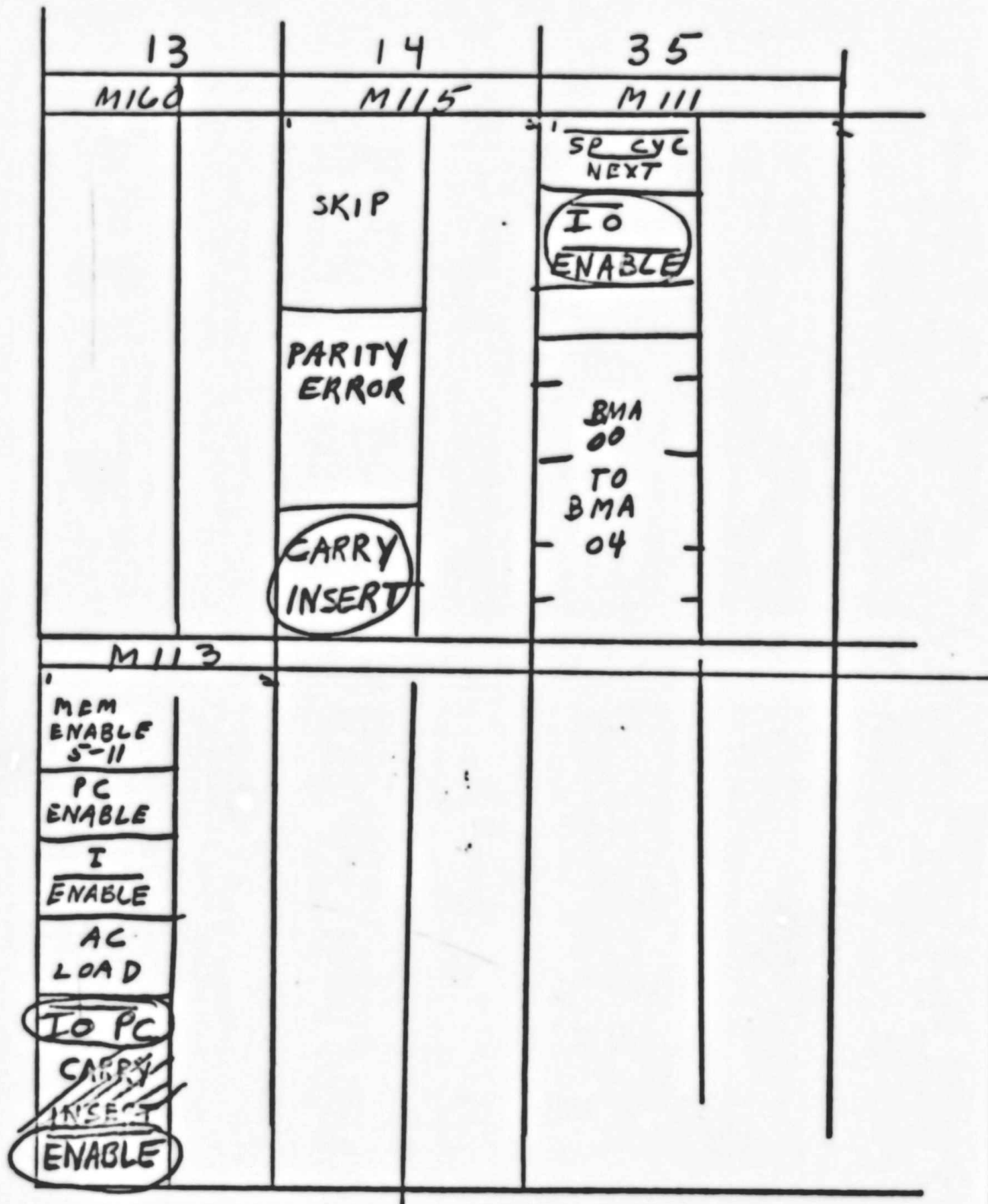
M160
A12





NEW
REV

A



B

D.MU-82-0-18

NEW
REV
C

EF

ADD/DELETE SHEET

MAKE ALL DELETIONS FIRST

PAGE 1 OF 2

COLOR	SIGNAL NAME	FROM PIN	TO PIN	COMPONENTS	ADD	DEL
	A 12 K1	A 12 K1	B 13 S			✓
		A 12 K1	A 14 V1		✓	
	A 13 R1	A 13 R1	B 08 H2			✓
		B 08 H2	B 08 F2			✓
		B 08 F2	A 13 R1		✓	
	A 35 E1	A 35 E1	B 13 R1		✓	
	B FETCH (1)	D 12 J1	C 14 R2			✓
		C 14 R2	C 14 J1			✓
		C 14 J1	C 13 C1			✓
		C 13 C1	C 14 R2		✓	
		C 14 R2	D 12 J1		✓	
	INT SKIP ENABLE	A 08 S2	B 13 P1			✓
		B 13 P1	C 11 V2			✓
		A 08 S2	A 14 T2		✓	
		A 14 T2	C 11 V2		✓	
	I/O ENABLE	D 09 J2	A 35 D1		✓	
	I/O PC ENABLE	A 08 U2	A 14 U2		✓	
		A 14 U2	B 13 S1		✓	

ECO NUMBER <u>8L-00045</u> MADE BY <u>J. Tompkins</u>	DRAWING NUMBER AFFECTED																				
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">CODE</th> <th style="width: 10%;">SIZE</th> <th style="width: 40%;">NUMBER</th> <th style="width: 10%;">NEW REV</th> <th style="width: 10%;">LTD</th> </tr> <tr> <td style="text-align: center;">WL</td> <td style="text-align: center;">K</td> <td style="text-align: center;">8L-0-19</td> <td style="text-align: center;">M</td> <td></td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	CODE	SIZE	NUMBER	NEW REV	LTD	WL	K	8L-0-19	M											
CODE	SIZE	NUMBER	NEW REV	LTD																	
WL	K	8L-0-19	M																		

FG

ADD/DELETE SHEET

MAKE ALL DELETIONS FIRST

PAGE 2 OF 2

COLOR	SIGNAL NAME	FROM PIN	TO PIN	COMPONENTS	ADD	DEL
	C12N1	C12N1	A08U2			✓
		A08U2	A08R2			✓
		C12N1	A08R2		✓	
	PAUSE (1)	B13P1	C04L1		✓	
	\overline{PC} ENABLE	C13K1	B13R1			✓
		B13R1	B13F1			✓
		C13K1	A14V2		✓	
		A14V2	B13F1		✓	
	PC LOAD	B08J2	C14H1		✓	
		C14H1	C14J1		✓	
	\overline{SET} \overline{IO} \overline{ON}	B08H2	C06K1		✓	
	TP 1	D02M1	D06H2			✓
		D06H2	C14H1			✓
		C14H1	B13T2			✓
		B13T2	D06H2		✓	
		D06H2	D02M1		✓	

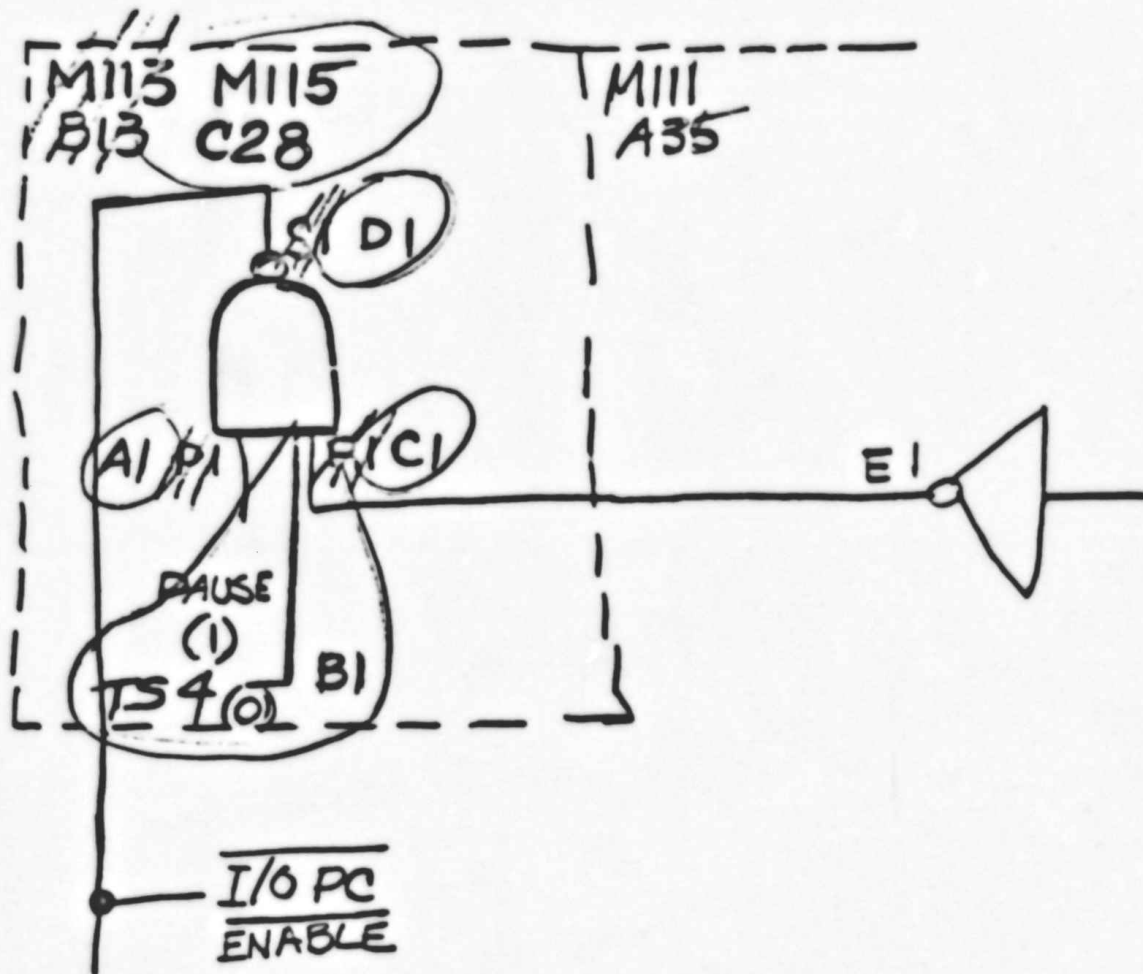
ECO NUMBER <u>86-00045</u> MADE BY <u>I.T.</u>	DRAWING NUMBER AFFECTED																
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">CODE</th> <th style="width: 15%;">SIZE</th> <th style="width: 40%;">NUMBER</th> <th style="width: 30%;">NEW REV LTR.</th> </tr> </thead> <tbody> <tr> <td>WL</td> <td>K</td> <td>86-0-19</td> <td>M</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	CODE	SIZE	NUMBER	NEW REV LTR.	WL	K	86-0-19	M								
CODE	SIZE	NUMBER	NEW REV LTR.														
WL	K	86-0-19	M														

G6

MASTER DRAWING LIST

<u>DWG. No</u>	<u>NEW REV</u>
D-BS-8L-0-2	E
D-BS-8L-0-4	C
D-BS-8L-0-5	B
D-BS-8L-0-6	B
D-MU-8L-0-18	C
A-PL-8L-0-18	C
K-WL-8L-0-19	M

26



M115 | 56 |

EDD 8L-PA05B

A-PL-8L-0-78

NEW
REV.
D

LG

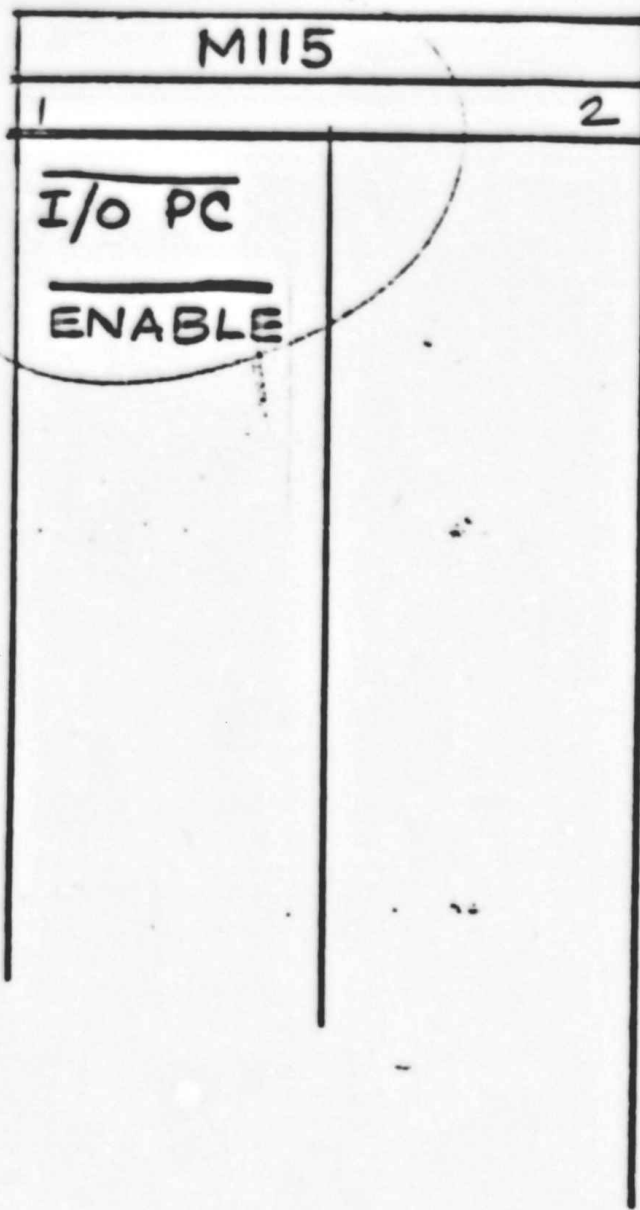
M113	
1	2
<u>IOPC</u> <u>ENABLE</u>	

5000-RVU

A-M11-82-0-18 D
NEW
REV

m6

28



B

ADD/DELETE SHEET

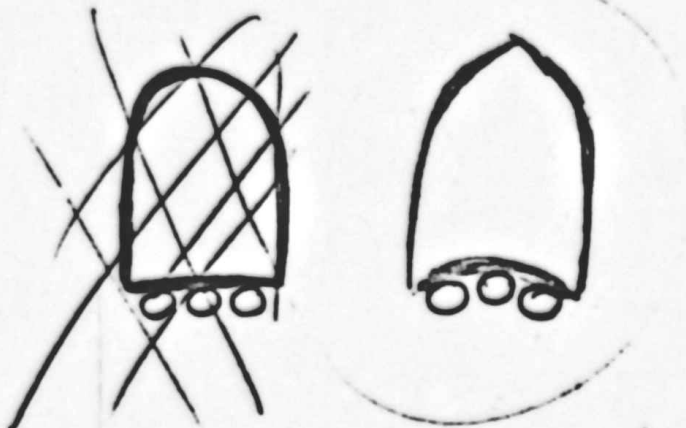
MAKE ALL DELETIONS FIRST

PAGE 1 OF 1

COLOR	SIGNAL NAME	FROM PIN	TO PIN	COMPONENTS	ADD	DEL
	A35E1	A35E1	B13R1			✓
	↓	A35E1	C28C1		✓	
	I/O PC ENABLE	A14U2	B13S1			✓
	↓	A14U2	C28D1		✓	
	PAUSE (1)	B13P1	C04L1			✓
	↓	C04L1	C28A1		✓	

ECO NUMBER <u>BL-00056</u>	DRAWING NUMBER AFFECTED		
MADE BY <u>DAVE CHAMBERS</u>	CODE	SIZE	NUMBER
	WL	K-8L-0-19	NEW REV LTR N

M115
A14



F10 8L-00056

D-BF8L-0-5

NEW
REX C

D7



EQUIPMENT CORPORATION

ENGINEERING CHANGE ORDER

REC'D. BY INFO. SER.	MO.	DAY	YR.
	6	18	69
SPECO RELEASE	6	23	69

TYPE OF CHANGE

ELECTRICAL	<input checked="" type="checkbox"/>
MECHANICAL	<input type="checkbox"/>
MODULES	<input type="checkbox"/>

CHANGE NO. 8L-00059

DOCUMENTATION PROJECT NUMBER

ACT	PROD. LINE	TYPE OR DISCRETE NO.				
	26	0	7	1	7	5

MANUFACTURING PROJECT NUMBER

ACT	PROD. LINE	TYPE OR DISCRETE NO.				

UNIT NAME PDP8L MODEL NO. 8L

PREWIRED OPTIONS AFFECTED

MODEL NO.	VARIATION

CHANGE TESTED 1000 BY M. ARSENAULT

IN SERIAL NO. _____

ESTIMATED TIME TO INSTALL 15 Min.

PARTS ADDED OR DELETED (IF YES REFER TO SEPARATE SHEET)	YES	NO
SHOP MODEL AFFECTED	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SYSTEMS PROGRAMS AFFECTED	<input type="checkbox"/>	<input checked="" type="checkbox"/>
DIAGNOSTIC PROGRAMS AFFECTED	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TECHNICAL PUBLICATIONS AFFECTED	<input type="checkbox"/>	<input checked="" type="checkbox"/>

BREAK-IN POINT (DATE/SERIAL NOS)

ALL 8L WITH EDO#45
1000 THRU 1471 AND FUTURE

PROBLEM:

THE PAUSE F.F. CAN COME ON IN EITHER STATE WHEN THE COMPUTER IS FIRST TURNED ON. IF IT COMES UP IN THE "1" STATE, LOAD ADD HAS TO BE HIT TWICE BECAUSE THE PAUSE INHIBITS PC ENABLE.

DRAWINGS AFFECTED

NUMBER	OLD REV	NEW REV
D-BS-8L-0-2	F	F
D-MU-8L-0-18	D	E
A-PL-8L-0-18	D	E
F-WL-8L-0-19	N	C
A-ML-8L-0	Y	Z

CORRECTION:

ADD POWER CLEAR TO PAUSE F.F.

ORIGINATOR R.M. ARSENAULT DATE 6-18-69

PRODUCTION ENG. MR. DATE _____

DESIGN ENG. R.M. ARSENAULT DATE 6-18-69

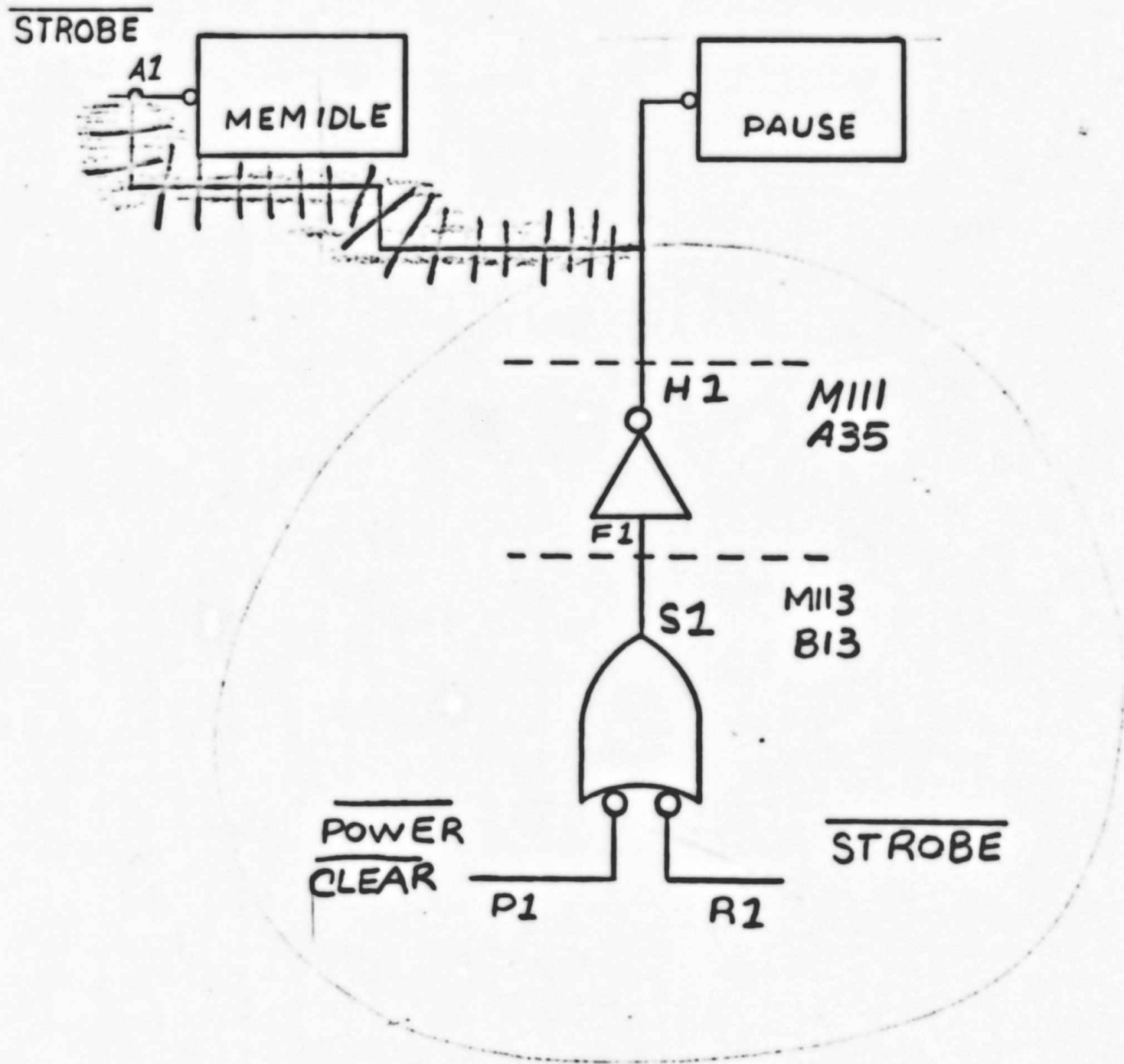
OTHER F.J. PURCELL DATE _____

PRODUCT LINES AFFECTED

SM COMP

E7

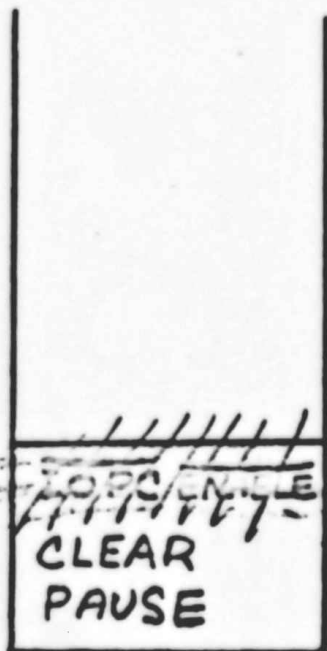
M216
CØ4



NEWREV

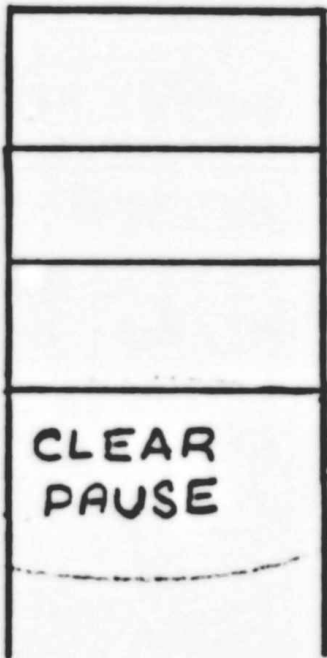
F7

M113
1



C

M111 1



A

ADD/DELETE SHEET

MAKE ALL DELETIONS FIRST

PAGE 1 OF 1

COLOR	SIGNAL NAME	FROM PIN	TO PIN	COMPONENTS	ADD	DEL
	B13S1	A35F1	B13S1		✓	
	POWER CLEAR (w)	A27S2	D16A1			✓
	↓	A27S2	B13P1		✓	
		B13P1	D16A1		✓	
	STROBE (w)	B13R1	B34S2		✓	

ECO NUMBER <u>8L-00059</u>	DRAWING NUMBER AFFECTED		
MADE BY <u>DAVE CHAMBERS</u>	CODE	SIZE	NUMBER
	WL	K-8L-0-19	NEW REV LTR P

H)

MASTER DRAWING LIST

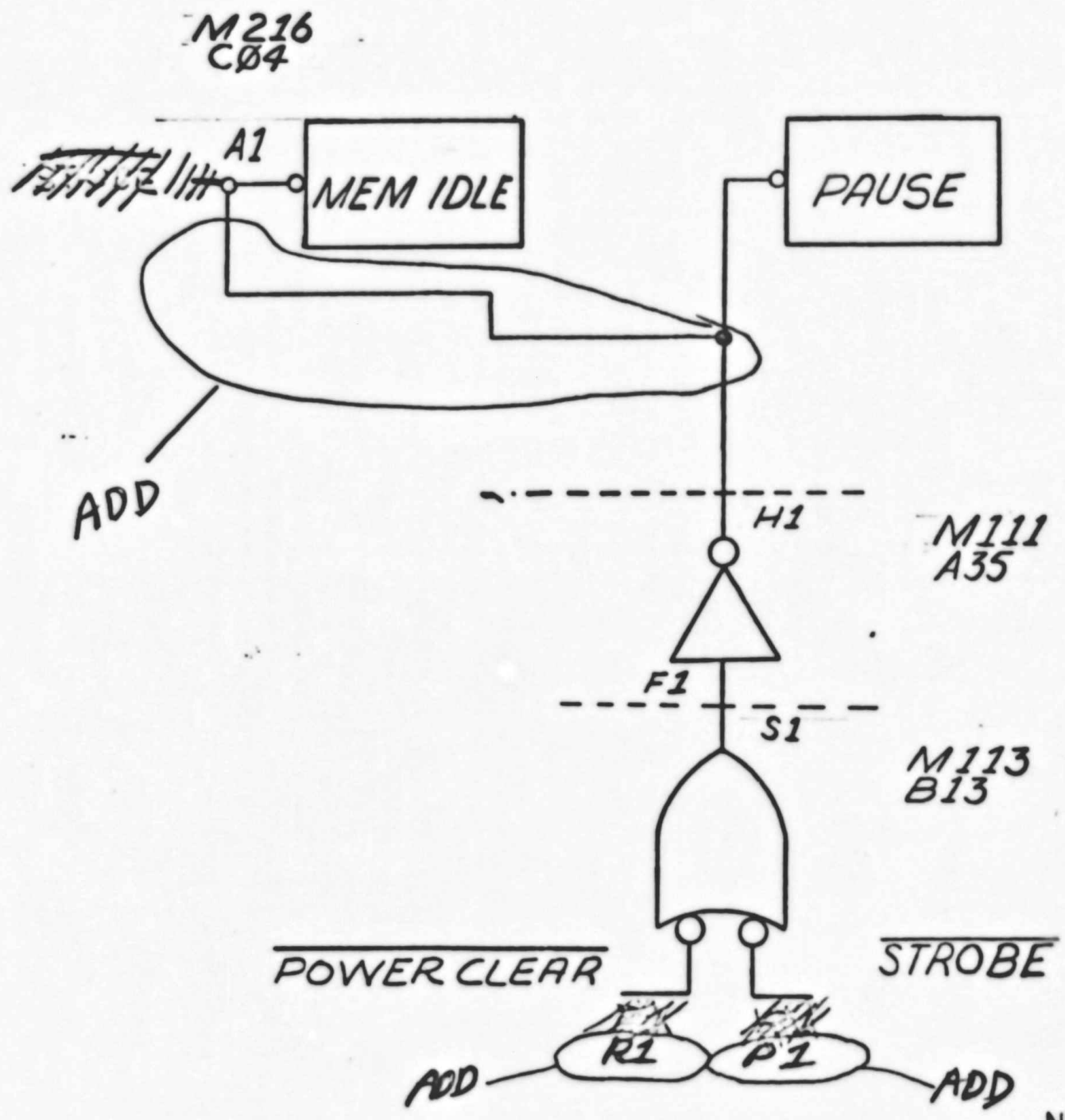
REV

D-BS-8L-0-2	F
D-MU-8L-0-18	E
APL-8L-0-18	E
K-WL-8L-0-19	D

END 8L00059

A-ML-8L-0

NEWREV
Z



ADD/DELETE SHEET

MAKE ALL DELETIONS FIRST

PAGE 1 OF 1

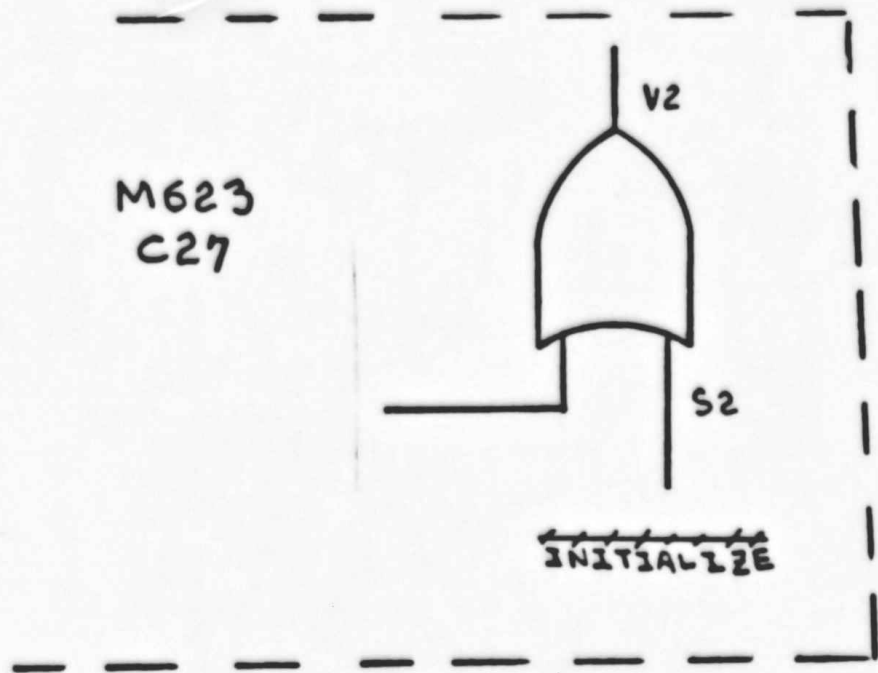
COLOR	SIGNAL NAME	FROM PIN	TO PIN	COMPONENTS	ADD	DEL
	A35H1	C04A1	A35H1		✓	
	STROBEW	C04N2	C04A1			✓
	↓	B34S2	B13R1			✓
	↓	—	—			
		C04N2	B13P1		✓	
	POWER CLEARW	A27S2	B13P1			✓
	↓	B13P1	D16A1			✓
	↓	A27S2	B13R1		✓	
	↓	B13R1	D16A1		✓	
	B13S1	B13S1	A35F1		✓	

ECO NUMBER <u>8L-00062</u> MADE BY <u>DAVE CHAMBERS</u>	DRAWING NUMBER AFFECTED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;">CODE</th> <th style="width: 15%;">SIZE</th> <th style="width: 40%;">NUMBER</th> <th style="width: 30%;">NEW REV LTR</th> </tr> <tr> <td> </td> <td> </td> <td><u>K-2-0-19</u></td> <td><u>R</u></td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	CODE	SIZE	NUMBER	NEW REV LTR			<u>K-2-0-19</u>	<u>R</u>								
CODE	SIZE	NUMBER	NEW REV LTR														
		<u>K-2-0-19</u>	<u>R</u>														

L7

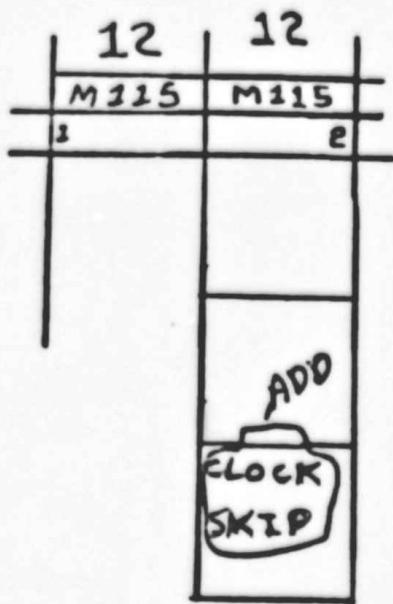
MASTER DRAWING LIST
NEW REV

D-BS-8L-0-2	(H)
K-WL-8L-0-19	(R)



M623
C27

DWG LOC B-1



DWG LOC D-4



DWG LOC B-7

ADD/DELETE SHEET

MAKE ALL DELETIONS FIRST

PAGE 1 OF

COLOR	SIGNAL NAME	FROM PIN	TO PIN	COMPONENTS	ADD	DEL
	INITIALIZE	CØ5N1	B29T2			X
		CØ5N1	C27S2		X	
		C27S2	B29T2		X	
	INITIALIZE	C3ØV2	C27S2			X
		C27S2	A14L1			X
		C3ØV2	A14L1		X	

ECO NUMBER 8L-00068

MADE BY J.W. Pate

DRAWING NUMBER AFFECTED

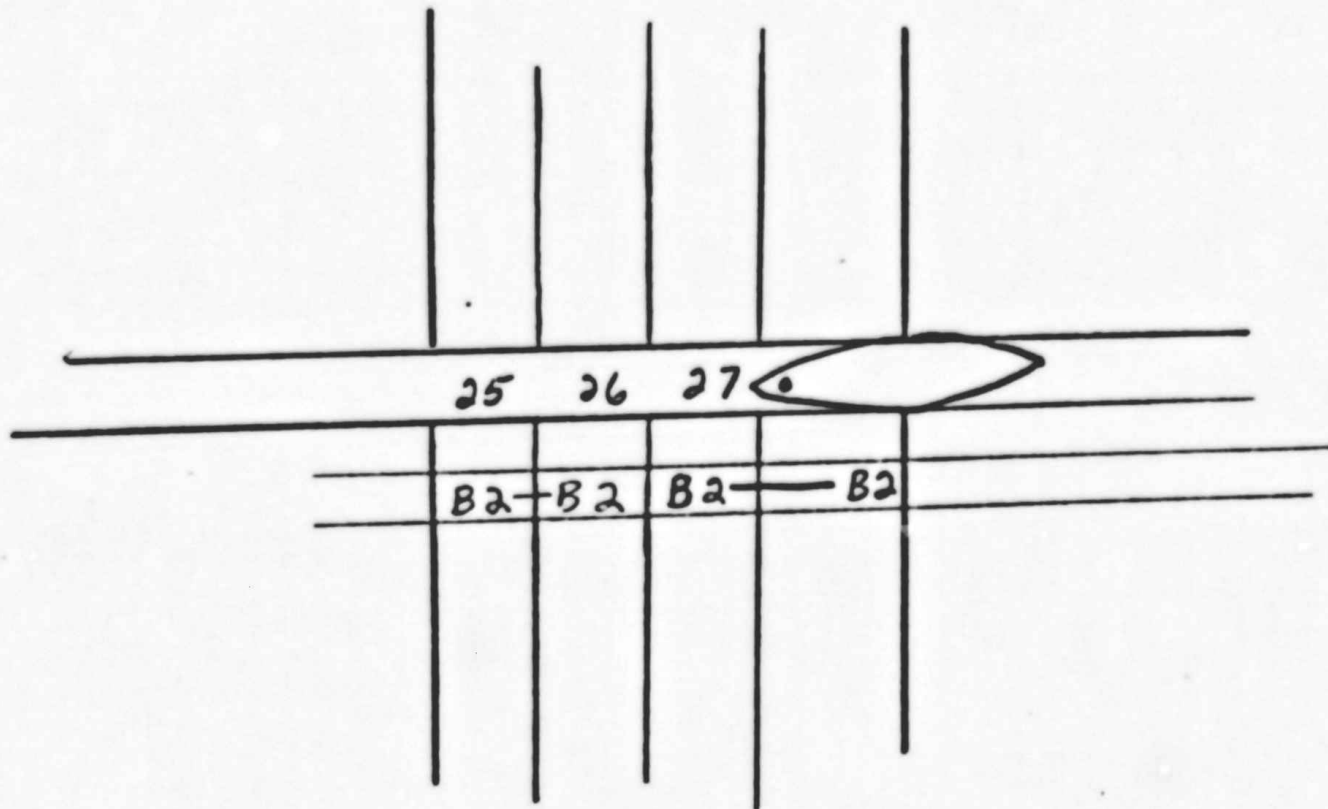
CODE	SIZE	NUMBER	NEW REV	LTR
WL	K-	8L-Ø-29	S	

ES

MASTER DRAWING LIST

DWG No	NEW REV
D-AD-7005906-0-0	A
A-PL-7005906-0-0	A

A



B

ECO 8L-00071

NEW
KEY

HS

D-AD-7005906-0-0 B

EQUIPMENT CORPORATION ENGINEERING CHANGE ORDER

REC'D. BY INFO. SER.	MO.	DAY	YR.
	9	17	69
SPECO RELEASE	9	25	69

TYPE OF CHANGE

ELECTRICAL

MECHANICAL

MODULES

CHANGE NO. 8L-00074

DOCUMENTATION PROJECT NUMBER

ACT	PROD. LINE	TYPE OR DISCRETE NO.			
	27	0	7	5	44

MANUFACTURING PROJECT NUMBER

ACT	PROD. LINE	TYPE OR DISCRETE NO.			

UNIT NAME PDP-8L MODEL NO. 8L

PREWIRED OPTIONS AFFECTED

MODEL NO.	VARIATION

CHANGE TESTED PROTO BY M. ARSENAULT

ESTIMATED TIME TO INSTALL 10 MIN.

PAR'S ADDED OR DELETED (IF YES REFER TO SEPARATE SHEET)	YES	NO
SHOP MODEL AFFECTED	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SYSTEMS PROGRAMS AFFECTED	<input type="checkbox"/>	<input checked="" type="checkbox"/>
DIAGNOSTIC PROGRAMS AFFECTED	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TECHNICAL PUBLICATIONS AFFECTED	<input type="checkbox"/>	<input checked="" type="checkbox"/>

BREAK-IN POINT (DATE/SERIAL NOS)

ALL 8L

S.N. 100 THRU 1912 AND FUTURE.

(FIELD INSTALL WHERE NEEDED)

PROBLEM:

POSSIBLE MACHINE PROBLEMS BECAUSE OF POOR GROUNDING.

CORRECTION:

ADD GROUND WIRES WHERE NEEDED.

DRAWINGS AFFECTED

NUMBER	OLD REV.	NEW REV.
A-ML-8L-0	AJ	AK
A-PL-7005906-0-0	A	B
D-AD-7005906-0-0	A	B

ORIGINATOR M.E. ARSENAULT DATE 9-17-69

PRODUCTION ENG. W.R. MILLER DATE 9-18-69

DESIGN ENG. M.E. ARSENAULT DATE 9-17-69

OTHER D. DUBAY DATE

PRODUCT LINES AFFECTED

PDP-8L SMALL COMPUTER

IS

MASTER DRAWING LIST

<u>DWG NO</u>	<u>NEW REV</u>
<u>D-AD-7005906-0-0</u>	<u>B</u>
<u>A-PL-7005906-0-0</u>	<u>B</u>

ECO 8L-00074

A-ML-8L-0

NEW
REV AK

18

NOTES:

ADD

6 SOLDER 22 GAUGE SOLID WIRE TO THE FOLLOWING, AS CLOSE TO BASE OF PIN AS POSSIBLE, AFTER PANEL IS BUSSED, USE BROWN OR BLACK SLEEVING.

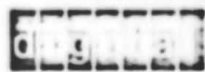
A20C2 TO A23C2

B20C2 TO B23C2

C19C2 TO C23C2

D19C2 TO D23C2

DWG LOC
C-1E2



EQUIPMENT CORPORATION

ENGINEERING CHANGE ORDER

REC'D. BY INFO. SER.

MO.	DAY	YR
10	13	69

 SPECO RELEASE

MO.	DAY	YR
10	22	69

TYPE OF CHANGE
 ELECTRICAL
 MECHANICAL
 MODULES

CHANGE NO. 8L-00078
 DOCUMENTATION PROJECT NUMBER

ACT	PROD. LINE	TYPE OR DISCRETE NO.
	27	07544

 MANUFACTURING PROJECT NUMBER

ACT	PROD. LINE	TYPE OR DISCRETE NO.

UNIT NAME PDP-8L MODEL NO. 8L

PREWIRED OPTIONS AFFECTED

MODEL NO.	VARIATION

CHANGE TESTED PROTO BY M. ARSENAULT
 IN SERIAL NO. _____
 ESTIMATED TIME TO INSTALL 30 MIN.
 PARTS ADDED OR DELETED (IF YES REFER TO SEPARATE SHEET) YES NO
 SHOP MODEL AFFECTED
 SYSTEMS PROGRAMS AFFECTED
 DIAGNOSTIC PROGRAMS AFFECTED
 TECHNICAL PUBLICATIONS AFFECTED

BREAK-IN POINT
 (DATE/SERIAL NOS)

S.N. 1800 THRU 2054 AND FUTURE.
 FIELD MODIFY IF PROBLEMS EXISTS WITH EXTENDED MEMORY AND MANUAL FUNCTIONS

PROBLEM:

1. IF THE MACHINE HALTS WITH THE INTERRUPT ON, AND AN INTERRUPT COMES IN FROM AN EXTERNAL DEVICE ONE CAN NO LONGER DEPOSIT OR EXAMINE IN THE UPPER FIELD.

DRAWINGS AFFECTED

NUMBER	OLD REV	NEW REV
A-ML-8L-0	AL	AN
D-BS-8L-0-2	J	K
D-BS-8L-0-7	A	B
D-MU-8L-0-18	F	H
A-PL-8L-0-18	F	H
K-WL-8L-0-19	S	T

CORRECTION:

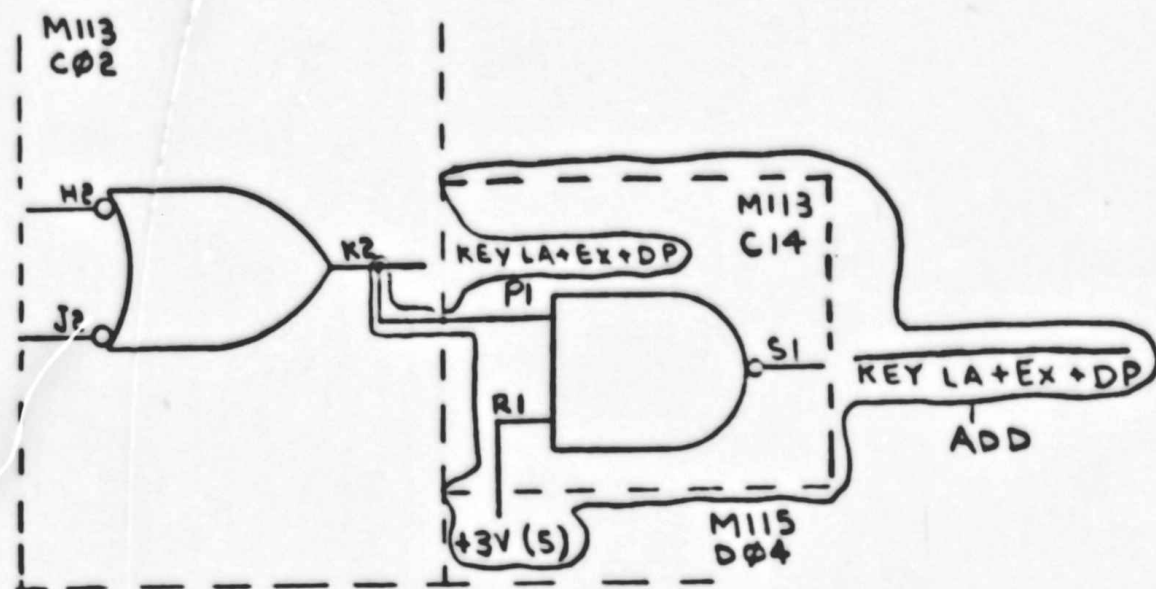
1. ADD KEY LA+EX+DP TO CLEAR INT SYNC, WHEN DOING A KEY FUNCTION.

ORIGINATOR M. ARSENAULT DATE 10-13-69
 PRODUCTION ENG. W.R. MILLER DATE 10-13-69
 DESIGN ENG. M.E. ARSENAULT DATE 10-13-69
 OTHER F.J. PURCELL DATE 10-13-69

PRODUCT LINES AFFECTED
 SMALL COMPUTER 8L

MASTER DRAWING LIST

<u>DWG NO</u>	<u>NEW REV</u>
<u>D-BS-8L-Ø-2</u>	<u>K</u>
<u>D-BS-8L-Ø-7</u>	<u>B</u>
<u>D-MU-8L-Ø-18</u>	<u>H</u>
<u>A-PL-8L-Ø-18</u>	<u>H</u>
<u>K-WL-8L-Ø-19</u>	<u>T</u>

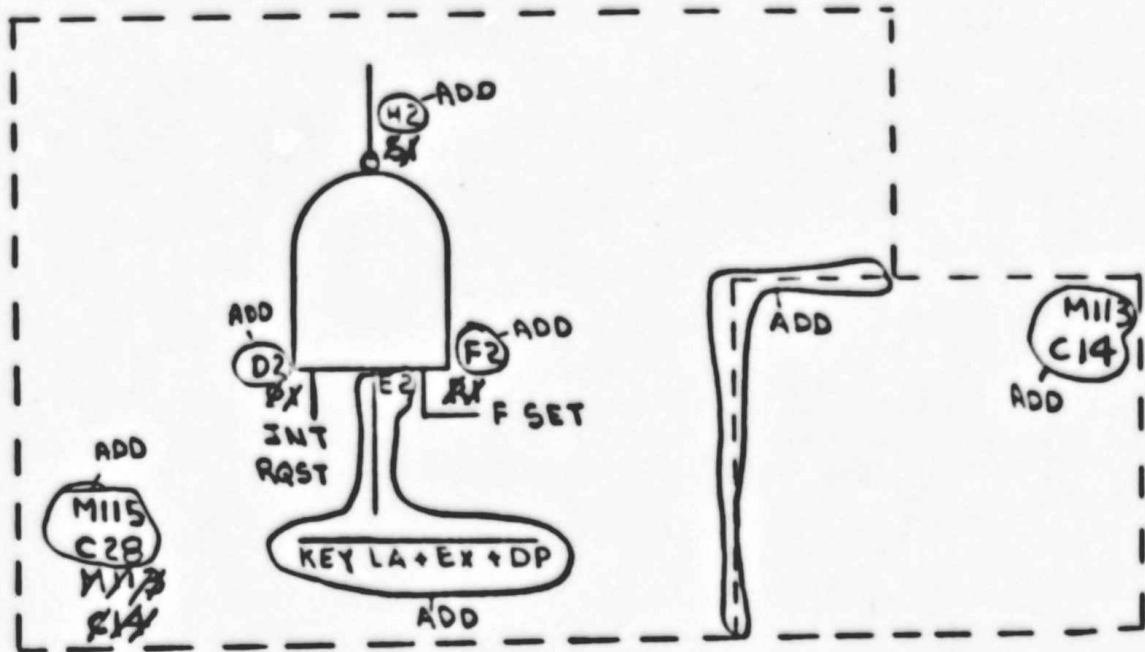


DWG LOC
B-4

ECO-8L-00078

D-BS-8L-0-2 NEW REV K

B9



DWG LOC
C-D-4-5

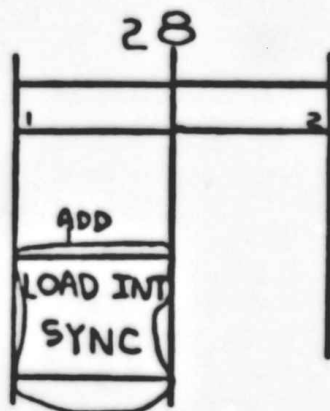
ECO 84-00078

D-BS-84-97

NEW
REV B

C9

C



C

ECO 82-00078

D-MU-82-Ø-18

NEW
REV. H

D9

ADD/DELETE SHEET

MAKE ALL DELETIONS FIRST

PAGE 1 OF 1

COLOR	SIGNAL NAME	FROM PIN	TO PIN	COMPONENTS	ADD	DEL
	C14S1	B11J1	C14S1			x
	C28H2	B11J1	C28H2		x	
	FSET	B13E1	C14R1			x
	↓	C14R1	CØ8M2			x
		B13E1	C28F2		x	
		C28F2	CØ8M2		x	
	INT RQST	A33P2	C14P1			x
	↓	A33P2	C28D2		x	
	+3V(S)	C1ØV1	C14R1		x	
	KEY LA+EX+DP	CØ2K2	DØ9H1			x
	↓	CØ2K2	C14P1		x	
		C14P1	DØ9H1		x	
	<u>KEY LA+EX+DP</u>	C14S1	C28E2		x	

ECO NUMBER 8L-0007B

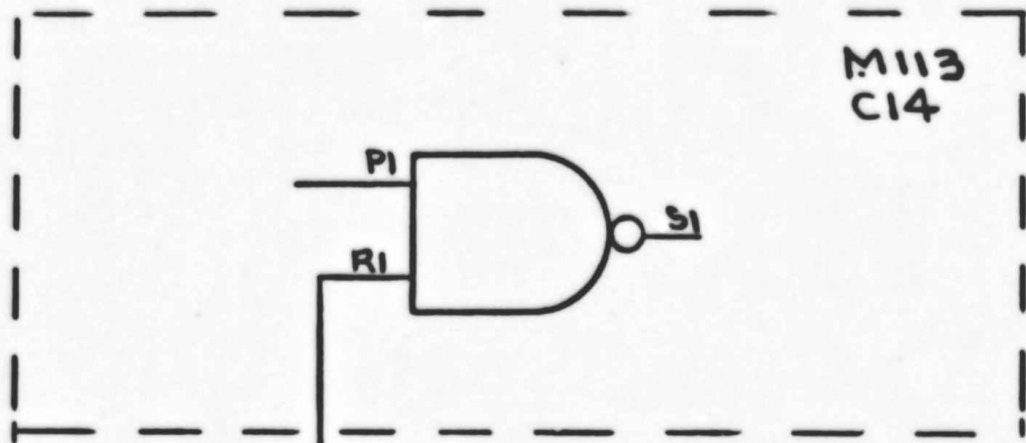
MADE BY J.W. Pate

DRAWING NUMBER AFFECTED

CODE	SIZE	NUMBER	NEW REV	LTR
WL	K-	8L-Ø-19	T	

E9

DRAWING NO.	NEW REV	SERIAL NUMBERS	OLD REV ADD C.I.P	SEPIA?
D-BS-8L-Ø-2	J	1000 - 1799	-	
↓	K	1800 →	J	YES
D-BS-8L-Ø-7	A	1-76Ø, 762-1799	-	
↓	B	1800 →	A	YES
D-MU-8L-Ø-18	F	1000 - 1799	-	
↓	H	1800 →	F	YES
A-PL-8L-Ø-18	F	1000 - 1799	-	
↓	H	1800 →	F	YES
K-WL-8L-Ø-19	S	1000 - 1799	-	
↓	T	1800 →	S	YES



M113
C14

~~#3VLSY~~
RUN(Φ)
ADD

DWG LOC
B-4

MASTER DRAWING LIST

<u>DWG NO</u>	<u>NEW REV</u>
D-BS-8L-Ø-2	L
K-WL-8L-Ø-19	U

ECO 8L-00083

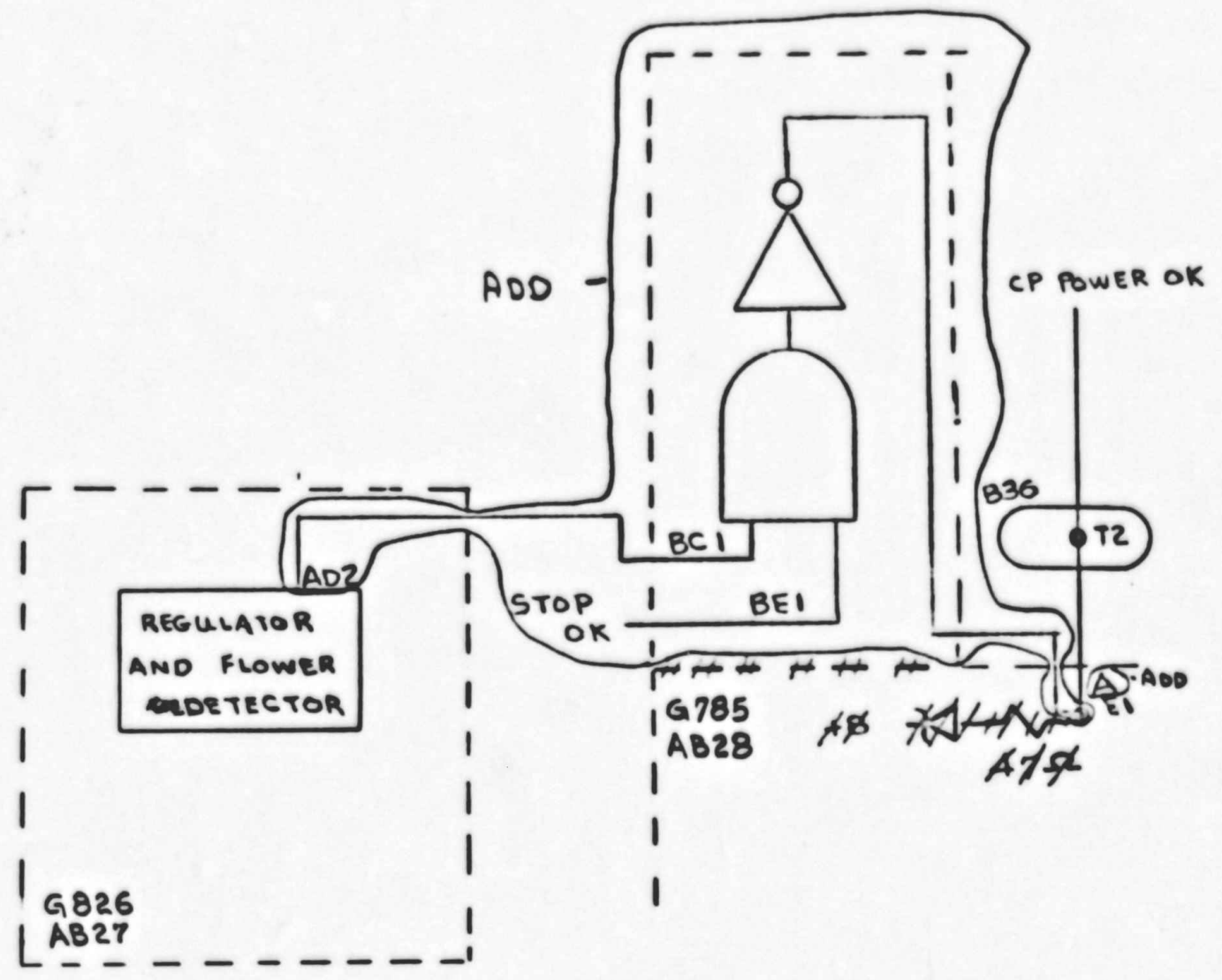
A-ML-8L-Ø

NEW REV AN

IA

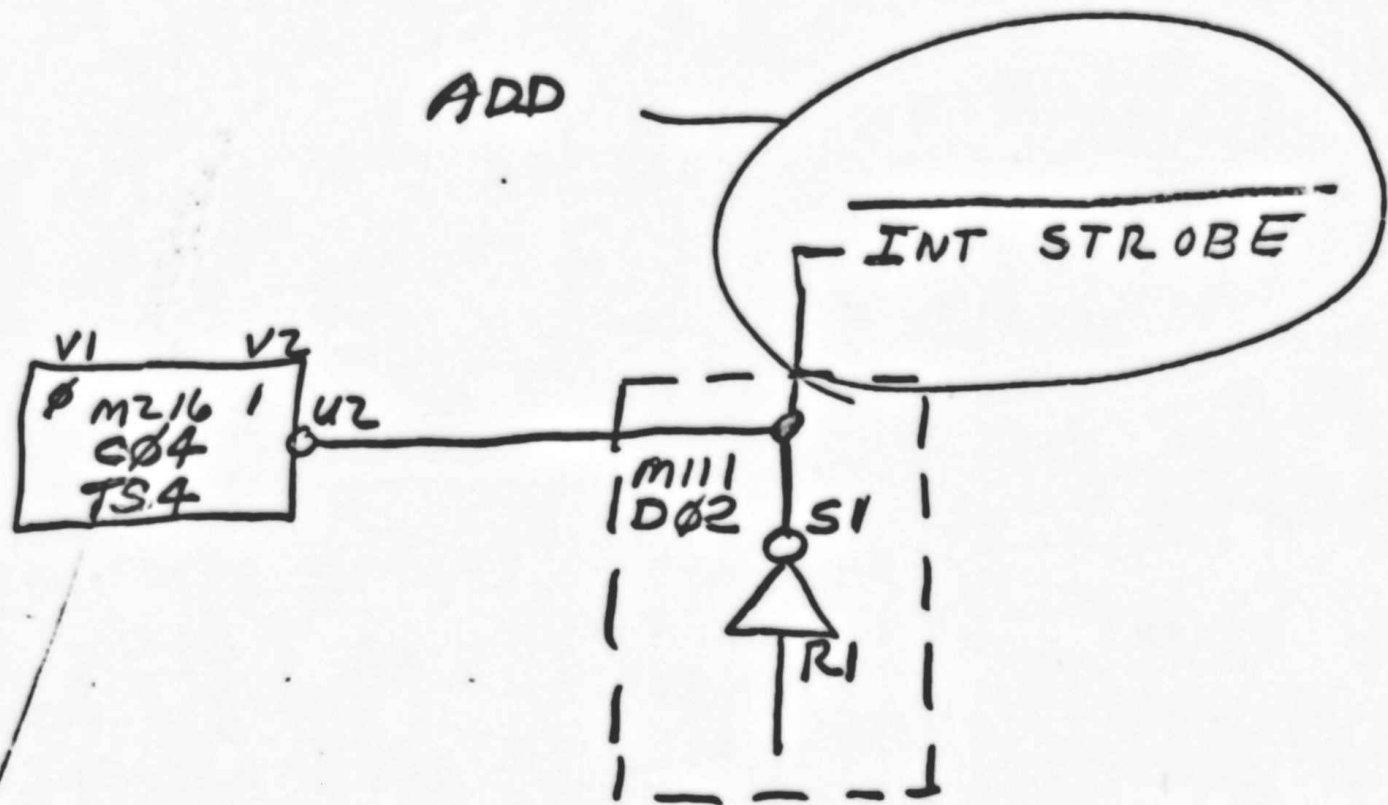
MASTER DRAWING LIST

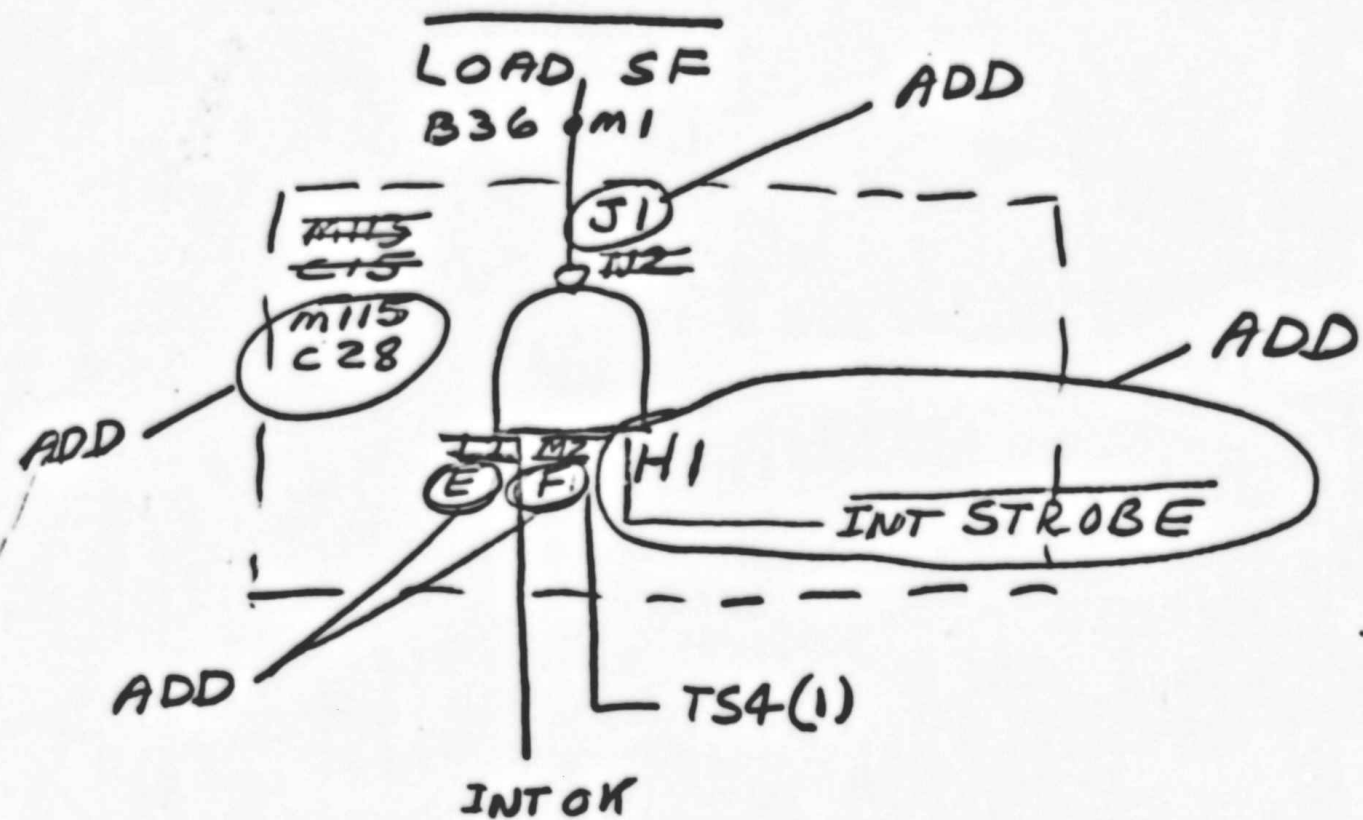
DWG NO	NEW REV
D-BS-8L-Ø-13	F
K-WL-8L-Ø-19	W

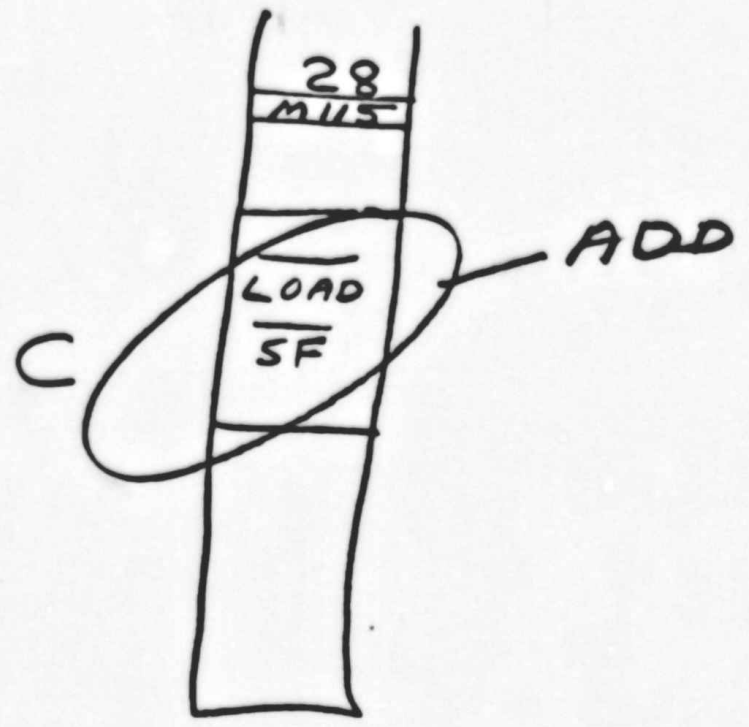
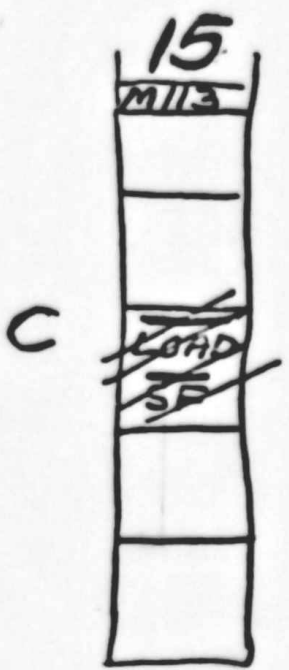


DWG LOC
B-6+7

B10







ECO#
8L-00088

D-MU-8L-φ-18

NEW
REV
J

G10

ADD/DELETE SHEET

MAKE ALL DELETIONS FIRST

PAGE 1 OF 1

COLOR	SIGNAL NAME	FROM PIN	TO PIN	COMPONENTS	ADD	DEL
	D02S1	C04U2	D02S1			✓
	INT OK	B13U2	C15L2			✓
		C15L2	D12J2			✓
		B13U2	C28E1		✓	
		C28E1	D12J2		✓	
	<u>INT STROBE</u>	C04U2	C28H1		✓	
		C28H1	D02S1		✓	
	<u>LOAD SF</u>	B36M1	C15N2			✓
		B36M1	C28J1		✓	
	TS 4 (1)	C13F1	C15M2			✓
		C15M2	D11L1			✓
		C13F1	C28F1		✓	
		C28F1	D11L1		✓	
<u>WIRELIST CORRECTIONS ONLY</u>						
(PRINTS & MACHINES ARE CORRECT)						
	KEY COUNT	C02R2	C05P2			✓
		C05P2	D02H1			✓
		C02R2	D02H1		✓	
	<u>KEY CONT</u>	D01P2	C05P2		✓	

WIRING CHANGES

ECO NUMBER 8L-00088

MADE BY CRB

DRAWING NUMBER AFFECTED

CODE	SIZE	NUMBER	NEW REV	LTR
WL	K	8L-0-19	Y	

H10

ADD/DELETE SHEET

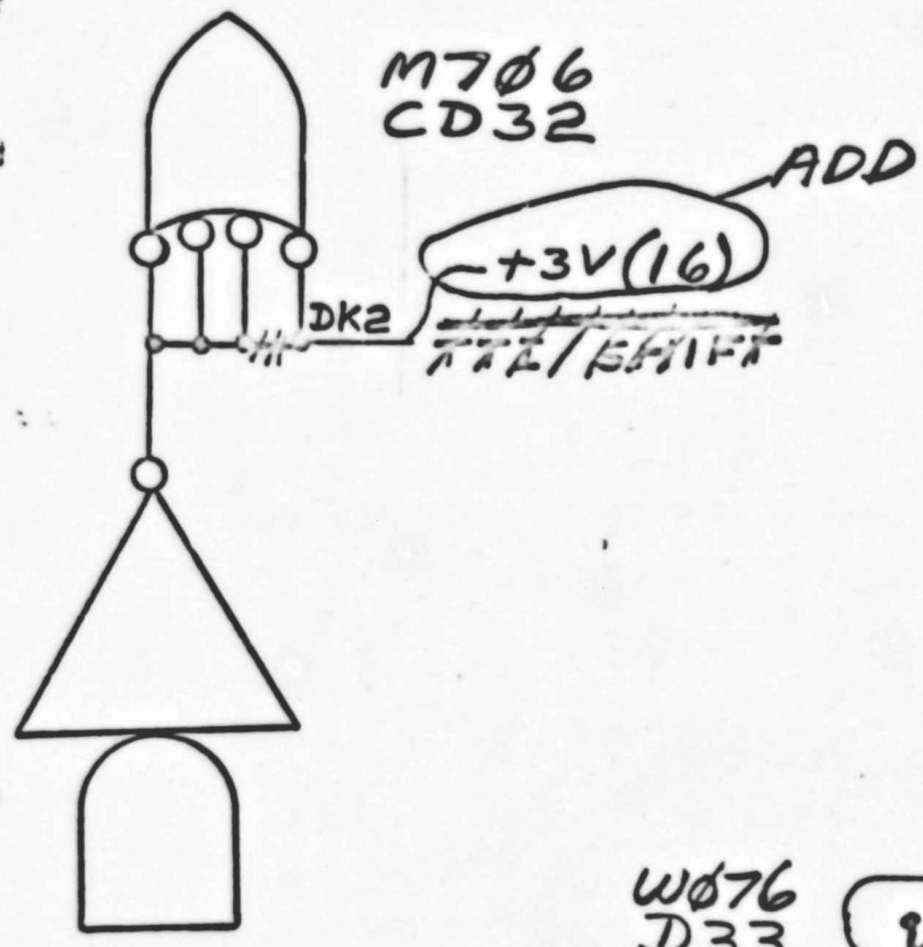
MAKE ALL DELETIONS FIRST

PAGE 1 OF 1

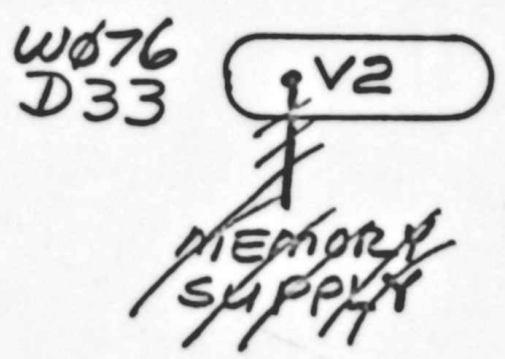
COLOR	SIGNAL NAME	FROM PIN	TO PIN	COMPONENTS	ADD	DEL
	GND 36	B36C2	B36T1			✓
	↑	B36R2	B36L2		✓	
		B36L2	B36J2		✓	
		B36J2	B36F2		✓	
		B36F2	B36C2		✓	
		B36R2	B36T1		✓	
		D36C2	D36C1			✓
		D36R2	D36L2		✓	
		D36L2	D36J2		✓	
		D36J2	D36F2		✓	
	↓	D36F2	D36C2		✓	
	GND 36	D36R2	D36C1		✓	

ECO NUMBER <u>8L-00089</u> MADE BY <u>AKB</u>	DRAWING NUMBER AFFECTED																
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">CODE</th> <th style="width: 40%;">SIZE</th> <th style="width: 40%;">NUMBER</th> <th style="width: 10%;">NEW REV LTR</th> </tr> </thead> <tbody> <tr> <td>WL</td> <td>K-8L-0-19</td> <td></td> <td style="text-align: center;">Z</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	CODE	SIZE	NUMBER	NEW REV LTR	WL	K-8L-0-19		Z								
CODE	SIZE	NUMBER	NEW REV LTR														
WL	K-8L-0-19		Z														

210



DWG LOC
C 8



DWG LOC.
B 7

<p>EQUIPMENT CORPORATION</p> <p>ENGINEERING CHANGE ORDER</p>	<table border="1" style="font-size: 8px;"> <tr><td>MO.</td><td>DAY</td><td>YR.</td></tr> <tr><td>1</td><td>23</td><td>70</td></tr> <tr><td>SPECO RELEASE</td><td>2</td><td>11 70</td></tr> </table>	MO.	DAY	YR.	1	23	70	SPECO RELEASE	2	11 70	<p>CHANGE NO. 8L-00091</p> <p>DOCUMENTATION PROJECT NUMBER</p> <table border="1" style="font-size: 8px;"> <tr><td>ACT</td><td>PROD. LINE</td><td>TYP.</td><td>OR DISCRETE NO.</td></tr> <tr><td>2</td><td>7</td><td>0</td><td>7 5 4 4</td></tr> </table> <p>MANUFACTURING PROJECT NUMBER</p> <table border="1" style="font-size: 8px;"> <tr><td>ACT</td><td>PROD. LINE</td><td>TYP.</td><td>OR DISCRETE NO.</td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	ACT	PROD. LINE	TYP.	OR DISCRETE NO.	2	7	0	7 5 4 4	ACT	PROD. LINE	TYP.	OR DISCRETE NO.				
	MO.	DAY	YR.																								
	1	23	70																								
SPECO RELEASE	2	11 70																									
ACT	PROD. LINE	TYP.	OR DISCRETE NO.																								
2	7	0	7 5 4 4																								
ACT	PROD. LINE	TYP.	OR DISCRETE NO.																								
<p>TYPE OF CHANGE</p> <p>ELECTRICAL <input checked="" type="checkbox"/></p> <p>MECHANICAL <input type="checkbox"/></p> <p>MODULES <input type="checkbox"/></p>																											

UNIT NAME PDP-8L	MODEL NO. 8L	BREAK-IN POINT (DATE/SERIAL NOS) SERIAL NO. 2597 and FUTURE. IF POSITIVE BUS OPTIONS ARE FIELD INSTALLED																												
<p>PREWIRED OPTIONS AFFECTED</p> <table border="1" style="font-size: 8px;"> <tr><th>MODEL NO.</th><th>VARIATION</th></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	MODEL NO.	VARIATION															<p>CHANGE TESTED IN SERIAL NO. _____ BY _____</p> <p>ESTIMATED TIME TO INSTALL _____</p> <table border="1" style="font-size: 8px;"> <tr><th>YES</th><th>NO</th></tr> <tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> </table> <p>PARTS ADDED OR DELETED (IF YES REFER TO SEPARATE SHEET)</p> <p>SHOP MODEL AFFECTED</p> <p>SYSTEMS PROGRAMS AFFECTED</p> <p>DIAGNOSTIC PROGRAMS AFFECTED</p> <p>TECHNICAL PUBLICATIONS AFFECTED</p>	YES	NO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
MODEL NO.	VARIATION																													
YES	NO																													
<input checked="" type="checkbox"/>	<input type="checkbox"/>																													
<input type="checkbox"/>	<input checked="" type="checkbox"/>																													
<input type="checkbox"/>	<input checked="" type="checkbox"/>																													
<input type="checkbox"/>	<input checked="" type="checkbox"/>																													
<input type="checkbox"/>	<input checked="" type="checkbox"/>																													

<p>PROBLEM:</p> <p style="text-align: center;">THE G717 (PULSE TERMINATOR MODULE,) IS USUALLY MISSING WHEN OPTIONS ARE INSTALLED ON THE 8L IO BUS.</p> <p>CORRECTION:</p> <p style="text-align: center;">INCLUDE THE G717 AS PART OF THE BASIC MACHINE. ADD IT TO THE 8L PARTS LIST AND MU.</p>	<p>DRAWINGS AFFECTED</p> <table border="1" style="font-size: 8px;"> <tr><th>NUMBER</th><th>OLD REV.</th><th>NEW REV.</th></tr> <tr><td>A-PL-8L-0-18</td><td>J</td><td>K</td></tr> <tr><td>D-MU-8L-0-18</td><td>J</td><td>K</td></tr> <tr><td>A-ML-8L-0</td><td>AV</td><td>AW</td></tr> </table> <p style="font-size: 24px; text-align: center; margin-top: 20px;">FIELD SERVICE CODED</p> <p style="text-align: center; margin-top: 20px;">IF POSITIVE BUS OPTIONS ARE FIELD INSTALLED.</p>	NUMBER	OLD REV.	NEW REV.	A-PL-8L-0-18	J	K	D-MU-8L-0-18	J	K	A-ML-8L-0	AV	AW
NUMBER	OLD REV.	NEW REV.											
A-PL-8L-0-18	J	K											
D-MU-8L-0-18	J	K											
A-ML-8L-0	AV	AW											

<p>ORIGINATOR <u>M. ARSENAULT</u> DATE <u>1/24/70</u></p> <p>PRODUCTION ENG. <u>W. R. MILLER</u> DATE <u>1/22/70</u></p> <p>DESIGN ENG. <u>M. ARSENAULT</u> DATE <u>1/21/70</u></p> <p>OTHER <u>F. J. PURCELL</u> DATE <u>1/21/70</u></p>	<p>PRODUCT LINES AFFECTED</p> <p>SM, COMP.</p>
---	---

311

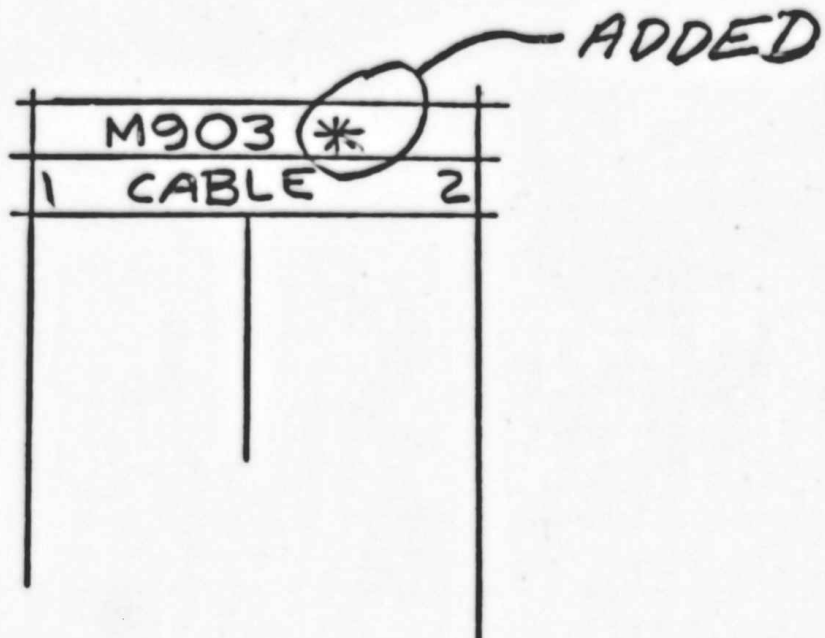
ADDED 1 G717 RESISTOR
TERMINATOR FOR PDP-8/L

BL-00091 A-PL-8L-0-18

NEW
REV K

EM

SLOT D-36



* NOTE ADDED

MASTER DRAWING LIST

DRAWING NUMBER	NEW REV
K-WL-8L-Ø-19	AB

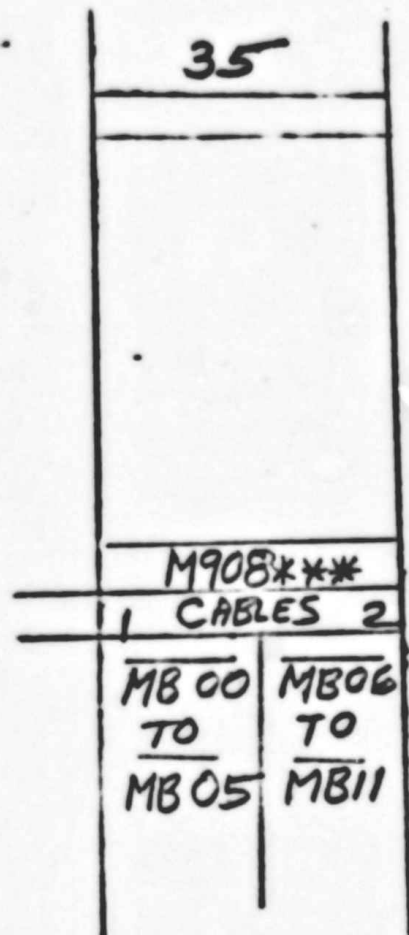
ECO 8L-00092

A-ML-8L-Ø NEW REV AV

H11

DWG NO. / PART NO.	DESCRIPTION	PDP-8L	QUANTITY VARIATION
GT11 M902 YA	RESISTOR TERMINATOR	1	
M902 YB	RESISTOR TERMINATOR	1	

ADD sheet 2 of 2



sheet 2 of 2

**THE ~~GT~~^{ADD} M902YB (TERMINATOR) IS ALWAYS PLACED AT THE END OF THE IO BUS FOR IOP'S AC BITS AND^{ADD} TIME STATES WHEN ~~20~~^{ADD} FT OR MORE OF CABLE IS USED. WHEN THERE ARE NO OPTIONS THE ~~GT~~^{ADD} M902YB IS PLACED IN LOCATION D36. ^{ADD}

*** THE M902YA IS ALWAYS PLACED AT THE END OF THE IO BUS FOR ALL MB BITS WHEN 20 FT OR MORE OF CABLE IS USED. WHEN THERE ARE NO OPTIONS THE M902YA IS PLACED IN LOCATION D35. ^{ADD}

m11

digital		ENGINEERING CHANGE ORDER			ECO NO. BL-00107 Sheet 1 of 2																														
ORIGINATOR ROBERT NUNLEY DATE 12/7/70 EXT 2136	RECEIVED CHG. DATE 12/14/70	ISSUED ECO DATE 12-28-70	FINAL RELEASE DATE 1-7-71	DISCRETE PROJECT NUMBER 80-05028																															
EQUIPMENT AFFECTED																																			
TYPE CHANGE ELECTRICAL <input checked="" type="checkbox"/> MECHANICAL <input type="checkbox"/> MODULE <input type="checkbox"/> SUBASSEMBLY <input type="checkbox"/> MFG FIELD PROCEDURE <input type="checkbox"/> TEST INFORMATION SERIAL # _____ BY _____		UNIT TO BE CHANGED PDP8L PRODUCT LINES PDP8-L		CHECKLIST <table border="1"> <thead> <tr> <th></th> <th>YES</th> <th>NO</th> </tr> </thead> <tbody> <tr><td>SHOP MODEL</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td>SYSTEMS PROGRAMS</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td>DIAGNOSTICS</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td>TECHNICAL PUB</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td>TEST PROGRAMS</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td>TESTER</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td>MFG/FIELD PROCEDURE</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td>PACKAGING INSTRUCTIONS</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td>TOOLING</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> </tbody> </table>			YES	NO	SHOP MODEL	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SYSTEMS PROGRAMS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DIAGNOSTICS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	TECHNICAL PUB	<input type="checkbox"/>	<input checked="" type="checkbox"/>	TEST PROGRAMS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	TESTER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MFG/FIELD PROCEDURE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PACKAGING INSTRUCTIONS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	TOOLING	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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TOOLING	<input type="checkbox"/>	<input checked="" type="checkbox"/>																																	
BREAK IN POINT				SIGNIFICANCE																															
SYSTEM	MODULE/OPTION	FIELD	RETROFIT	REWORK CODE	REQ TO MEET SPECIFICATION <input type="checkbox"/> PROD IMPROVEMENT <input type="checkbox"/> CUSTOMER/FIELD REQ. <input type="checkbox"/> FACILITATE MFG. <input type="checkbox"/> DRAWING CORRECTION <input checked="" type="checkbox"/> VENDOR <input type="checkbox"/>																														
	PDP8-L			06																															
PROBLEM																																			
ECO # BL-00062 DELETED PIN C04A1 FROM SIGNAL STROBE. THIS PIN IS SHOWN IN TWO PLACES ON DRAWING, AND SIGNAL NAME WAS ONLY CHANGE IN 1 PLACE.																																			
					FIELD SERVICE CODED																														
					F																														
CORRECTION																																			
REMOVE PIN C04A1 FROM STROBE & ADD IT TO A35HI. PRINT CORRECTIONS ONLY.																																			
OCT 9 1970																																			
APPROVAL																																			
DESIGN ENGINEER <u>MEL ARSENAULT</u>		ENG MGR. <u>REMO VOGELSANG</u>																																	
PRODUCTION ENGINEER <u>ALAN HIRSCH</u>		FIELD SERVICE (ADVISORY) <u>ROBERT NUNLEY</u>																																	
CHIEF ENGINEER _____																																			

DRA 111A

3680E

C.S.

SEE REVERSE SIDE FOR INSTRUCTIONS

 B12
 ODD



**ENGINEERING CHANGE ORDER
DOCUMENT & MATERIAL
CHANGE**

ECO NO.
8L-000107
Sheet 2 of 2

ITEM	DOCUMENT/OR PART NUMBER	OLD REV	NEW REV	(PART NAME) DESCRIPTION OF CHANGE	DISP CODE
1	A-ML-8L-0	BE	1 F	UPDATE REV FOR ITEM 2 OF THIS ECO	06
2	D-BS-8L-0-2	M	N	(TIMING, MANUAL FUNCTIONS & RUN) DELETE PIN C04A1 FROM SIGNAL STFOBE. ZONE D-7	06

DISPOSITION CODES

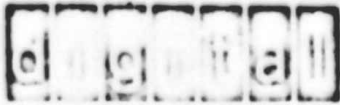
Use up Present Stock	01	Retrofit to Break in	05
Use Present Stock until New Stock Available	02	Documentation Change Only	06
Rework all Material	03	New Item Purchase	07
Rework until New Stock Available	04	New Item in Stock	08
		New Item on Order	09
		Retain	00

DRA 112A

SEE REVERSE SIDE FOR INSTRUCTIONS

C12

000



ENGINEERING CHANGE ORDER

W.O. 4169E AF JB

ECO NO.
8L-00112

Sheet 1 of 4

ORIGINATOR LARRY NARHI	RECEIVED CHG. DATE 6/11/71	ISSUED ECO DATE 6-16-71	FINAL RELEASE DATE 6-29-71	DISCRETE PROJECT NUMBER 81 07160
DATE 5/27/71	EXT. 3629			

EQUIPMENT AFFECTED

TYPE CHANGE	UNIT TO BE CHANGED	CHECKLIST	YES	NO
ELECTRICAL <input checked="" type="checkbox"/>	PDP8-L	SHOP MODEL	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MECHANICAL <input type="checkbox"/>	PRODUCT LINES	SYSTEMS PROGRAMS	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MODULE <input type="checkbox"/>		DIAGNOSTICS	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SUBASSEMBLY <input type="checkbox"/>	PDP8-L	TECHNICAL PUB.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MFG/FIELD PROCEDURE <input type="checkbox"/>		TEST PROGRAMS	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TEST INFORMATION		TESTER	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SERIAL #		MFG/FIELD PROCEDURE	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BY		PACKAGING INSTRUCTIONS	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		TOOLING	<input type="checkbox"/>	<input checked="" type="checkbox"/>

BREAK IN POINT				SIGNIFICANCE	
SYSTEM	MODULE/OPTION	FIELD	REWORK	CODE	
	PDP8-L	RETROFIT ONLY AT REQUEST AND EXPENSE OF CUSTOMER.		01	REQ. TO MEET SPECIFICATION <input type="checkbox"/>
					PROD. IMPROVEMENT <input type="checkbox"/>
					CUSTOMER/FIELD REQ. <input checked="" type="checkbox"/>
					FACILITATE MFG. <input type="checkbox"/>
					DRAWING CORRECTION <input type="checkbox"/>
					VENDOR <input type="checkbox"/>

PROBLEM

WHEN CLEARING TTY KEYBOARD FLAG, READER RUN IS SET, CAUSING TYPE TO ADVANCE. THIS IS UNDESIRABLE IN SOME PROGRAMMING SITUATIONS.

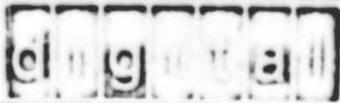
CORRECTION

CLEAR FLAG WITH IOP4 (READ BUFFER) AND SET READER RUN WITH IOP2.
THIS ECO TO BE INSTALLED ONLY AT CUSTOMER REQUEST.

APPROVAL

DESIGN ENGINEER M. ARSENAULT 5/27/71 ENG. MGR. R. VOGELSANG
 PRODUCTION ENGINEER T. MAC DONALD FIELD SERVICE
 CHIEF ENGINEER _____ (ADVISORY) R. NUNLEY

D12



**ENGINEERING CHANGE ORDER
DOCUMENT & MATERIAL
CHANGE**

ECO NO.
BL-00112
Sheet 2 of 4

ITEM	DOCUMENT/OR PART NUMBER	OLD REV	NEW REV	(PART NAME) DESCRIPTION OF CHANGE	DISP CODE
1	D-BS-8L-0-11	B	C	ADD FOLLOWING NOTE: TO ALLOW IOP4 TO CLEAR KEYBOARD FLAG: DELETE D32D1 TO GND DELETE C32E2 TO C32V2 ADD D32D1 TO C32V1 ADD C32V2 TO D32E2	06
2	A-ML-8L-0	BK	BL	UPDATE REVS PER THIS ECO.	06

DISPOSITION CODES

Use up Present Stock	01	Retrofit to Break-in	05
Use Present Stock until New Stock Available	02	Documentation Change Only	06
Rework all Material	03	New Item Purchase	07
Rework until New Stock Available	04	New Item in Stock	08
		New Item on Order	09
		Retain	00

DRA 112A

DEC 16-(327)-1053-N471

SEE REVERSE SIDE FOR INSTRUCTIONS

1512

FIELD SERVICE NOTES:

ECO 8L-000112
Page 3 of 4

E LEVEL OF URGENCY code

The ECO number will be posted to the EDP file with this LOU code replacing the lead ⌀ - "A"= Mandatory, High Priority
"B"= Mandatory "C"= Applicable if symptoms are present
"D"= Low Priority "E"= Product Improvement, Optional

This ECO is NO CHARGE TO CUSTOMER - All DEC installation labor and materials are to be reported under a "W" charge code.

This ECO is STANDARD APPLICABILITY - It is to be installed at no charge for warranty and maintenance contract customers in accordance with the technical effectivity, otherwise at customer expense.
Charges - Documentation \$ 5.00, Parts \$ None
DEC on-site labor \$ 13.00. (minimum per call billing applies)
(* parts prices not available at the time of Speco release)

F FIELD DISTRIBUTION CODE

"F"= Immediate Speco distribution to all field offices
"DF"= No general Speco distribution, only to offices where equipment is located (less than 25 units in the field) and to Regional product support.

UNCONDITIONAL ECO - General distribution kits will include Field Installation Orders, Specos, Prints, and Parts.

CONDITIONAL ECO - General distribution will include Field Installation Orders only. Prints ~~and parts~~ must be ordered from FSIC as required.

N.A. Parts availability delay expected _____.

No The REQUIREMENT TO MEET SPECIFICATION is applicable retroactively to equipment in the field.

No Print changes are minimal and are to be done manually in red and green; updating prints will be supplied only upon request.



ENGINEERING CHANGE

ECO NO.
8L-00113

W.O. 8020E JS ORDER JB

Sheet 1 of 4

ORIGINATOR ED REED	RECEIVED CHG. DATE 6/18/71	ISSUED ECO DATE	FINAL RELEASE DATE 7-22-71	DISCRETE PROJECT NUMBER 99 06224
DATE 6/15/71	EXT. 2174			

EQUIPMENT AFFECTED

TYPE CHANGE ELECTRICAL <input checked="" type="checkbox"/> MECHANICAL <input type="checkbox"/> MODULE <input type="checkbox"/> SUBASSEMBLY <input type="checkbox"/> MFG/FIELD PROCEDURE <input type="checkbox"/>	UNIT TO BE CHANGED PDP-8L PRODUCT LINES TPL	CHECKLIST <table border="1"> <tr><td>SHOP MODEL</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td>SYSTEMS PROGRAMS</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td>DIAGNOSTICS</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td>TECHNICAL PUB.</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td>TEST PROGRAMS</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td>TESTER</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td>MFG/FIELD PROCEDURE</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td>PACKAGING INSTRUCTIONS</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td>TOOLING</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> </table>	SHOP MODEL	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SYSTEMS PROGRAMS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DIAGNOSTICS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	TECHNICAL PUB.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	TEST PROGRAMS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	TESTER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MFG/FIELD PROCEDURE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PACKAGING INSTRUCTIONS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	TOOLING	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SHOP MODEL	<input type="checkbox"/>	<input checked="" type="checkbox"/>																											
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TESTER	<input type="checkbox"/>	<input checked="" type="checkbox"/>																											
MFG/FIELD PROCEDURE	<input type="checkbox"/>	<input checked="" type="checkbox"/>																											
PACKAGING INSTRUCTIONS	<input type="checkbox"/>	<input checked="" type="checkbox"/>																											
TOOLING	<input type="checkbox"/>	<input checked="" type="checkbox"/>																											
TEST INFORMATION SERIAL # 2818 BY ED REED																													

BREAK IN POINT				SIGNIFICANCE	
SYSTEM	MODULE/OPTION	FIELD	REWORK	CODE	
	8L	ONLY WHEN A BM8-L MEMORY EXPANSION IS INSTALLED.	X		REQ. TO MEET SPECIFICATION <input type="checkbox"/> PROD. IMPROVEMENT <input type="checkbox"/> CUSTOMER/FIELD REQ. <input checked="" type="checkbox"/> FACILITATE MFG. <input type="checkbox"/> DRAWING CORRECTION <input type="checkbox"/> VENDOR <input type="checkbox"/>

PROBLEM

EXTENDED ADDRESS BITS "0" AND "1" ARE OPEN COLLECTOR AND HAVE NO PULLUP RESISTORS WHEN A BM8-L IS INSTALLED.

CORRECTION

WIRE IN CLAMP LOADS WHICH ARE AVAILABLE IN THE PDP-8L.

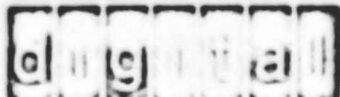
APPROVAL

DESIGN ENGINEER J. MILTON ENG. MGR. _____

PRODUCTION ENGINEER R. REED FIELD SERVICE (ADVISORY) _____

CHIEF ENGINEER _____ R. NUNLEY

H2



**ENGINEERING CHANGE ORDER
DOCUMENT & MATERIAL
CHANGE**

ECO NO.
8L-00113
Sheet 2 of 4

ITEM	DOCUMENT/OR PART NUMBER	OLD REV	NEW REV	(PART NAME) DESCRIPTION OF CHANGE	DISP CODE
1	A-ML-8L-Ø	BL	BM	UPDATE PER ITEMS 2 THROUGH 5.	06
2	K-WL-8L-0-19	AD	AE	SEE MARKED PRINT.	06
3	D-BS-8L-0-10	C	D	MAKE FOLLOWING ADDITIONS TO LOCATION B-2 ON THE PRINT: CLAMP-LOAD- M9Ø6, B33T2 TO CABLE- M9Ø3, C35T2; AND CLAMP-LOAD- M9Ø6, B33V2 TO CABLE- M9Ø3, C35V2.	06
4	D-MU-8L-0-18	M	N	UPDATE PER ITEM 3.	06
5	A-PL-8L-0-18	M	N	UPDATE REV PER ITEM 4.	06

DISPOSITION CODES

Use up Present Stock	01	Retrofit to Break-in	05
Use Present Stock until New Stock Available	02	Documentation Change Only	06
Rework all Material	03	New Item Purchase	07
Rework until New Stock Available	04	New Item in Stock	08
		New Item on Order	09
		Retain	00

FIELD SERVICE NOTES:

ECO 8L-00113

Page 3 of 4

LEVEL OF URGENCY code

The ECO number will be posted to the EDP file with this LOU code replacing the lead 0 - "A"= Mandatory, High Priority
"B"= Mandatory "C"= Applicable if symptoms are present
"D"= Low Priority "E"= Product Improvement, Optional

This ECO is NO CHARGE TO CUSTOMER - All DEC installation labor and materials are to be reported under a "W" charge code.

This ECO is STANDARD APPLICABILITY - It is to be installed at no charge for warranty and maintenance contract customers in accordance with the technical effectivity, otherwise at customer expense.
Charges - Documentation \$ _____, Parts \$ _____
DEC on-site labor \$ _____. (minimum per call billing applies)
(* parts prices not available at the time of Speco release)

FIELD DISTRIBUTION CODE

"F"= Immediate Speco distribution to all field offices
"DF"= No general Speco distribution, only to offices where equipment is located (less than 25 units in the field) and to Regional product support.

UNCONDITIONAL ECO - General distribution kits will include Field Installation Orders, Specos, Prints, and Parts.

CONDITIONAL ECO - General distribution will include Field Installation Orders only. Prints and parts must be ordered from FSIC as required.

N.A. Parts availability delay expected _____.

The REQUIREMENT TO MEET SPECIFICATION is applicable retroactively to equipment in the field.

Print changes are minimal and are to be done manually in red and green; updating prints will be supplied only upon request.

* This ECO will be installed, at no charge, with the addition of a BMB-L option.

TECH. TIPS

digital	FIELD SERVICE TECHNICAL MANUAL				Option or Designator
	12 Bit <input checked="" type="checkbox"/>	16 Bit <input type="checkbox"/>	18 Bit <input type="checkbox"/>	36 Bit <input type="checkbox"/>	PDP-8L

Title <u>BUFFERING OF POWER CLEAR</u>				Tech Tip PDP-8L TT#1	
				Number	
All Processor Applicability		Author Robert Nunley		Rev g	
8T		Approval W. Cummins		Date 7-31-72	
Cross Reference					

The Power Clear signal run, generated at A25S2 is **overloaded** beyond engineering specs. However, because we use the level rather than transition, this overload is acceptable in most machines. In the rest, due to component age and component individual characteristics, weird unexplainable things might happen with any or all of the following symptoms.

1. Intermittent halt when none was programmed (not to be confused with loss of timing where run is on but there is no control of the machine) where run is cleared as if the halt key was actuated.
2. Intermittent loss of data where one memory cell is changed to 0000.
3. Intermittent clearing of flags and/or buffers in I/O devices (not connected to a DM01).

If any of these symptoms occur it is possible that the cause is the power clear run.

If a glitch appears on power clear this is what can happen:

1. If the glitch appears before TP3 but after TP2 memory control flops will be cleared and as a result one memory location will be cleared, but the MB will have the correct data this time. TP3 will then set RUN and the program should resume normal flow (until the zero's are reached again).
2. If the glitch appears after TP3 the effect is as if the SS key is pressed.
3. Depending on where the glitch occurs between MEM start and strobe governs whether or not a read is done at all, or a strobe is generated.
4. If the glitch appears in the 8L of amplitude and duration enough to cause any of the above, it will be felt on the I/O bus and cause the same type intermittent problems.

To buffer Power Clear: break the Power Clear run at A27S2 but maintain the other end (could go to D16A1 or B13R1 depending on the vintage of the 8L).

Add A27S2 to C27E2
 Add C27J2 to other end of wire deleted in the first step.
 Add 220 ohm 1/4W pull up

C27J2 to +5V

This gives a drive of about 100 load units for the Power Clear run.

PAGE 1	PAGE REVISION 0	PUBLICATION DATE July 1972
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COMPANY CONFIDENTIAL

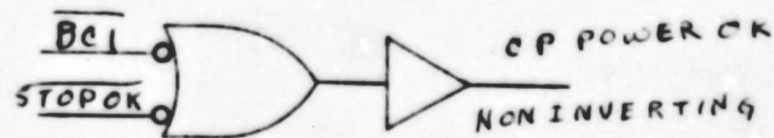
mlr

Title PRINT CORRECTIONS IN 8L				Tech Tip Number PDP-8L TT #2		
All	Processor Applicability			Author Robert Nunley	Rev 0	Cross Reference
	8L			Approval W. Cummins	Date 7-31-72	

There are errors in the 8L print set not in Logic Gating but in signal names and generation. Two of these errors have been corrected by ECO's which will be coded "P" therefore will not be distributed to the field.

The corrections are:

1. Drawing No. D-BS-8L-Ø-2 coordinates D-7 direct clear of TS1 is not ~~strobe~~, but the "OR" function of ~~POWER CLEAR + STROBE~~. The signal comes from Inverter M111 at A35H1. (This gating was generated by ECO 8L-00045, ECO 8L-00059, ECO 8L-00062.) Direct Clear of TS1 should now be called "A35H1."
2. Drawing number D-BS-8L-Ø-13 coordinates B-6 generation of "CP Power OK." The logic works correctly but should be drawn like this.



Title 8L ECO 00045, 00056 ERROR				Tech Tip Number PDP8/L TT#3		
All	Processor Applicability			Author Art Newbury	Rev 0	Cross Reference
	8L			Approval W.E. Cummins	Date	

Another ECO will be generated to effect correction of an error which exists with respect to ECO's 8L #00045 and 00056. The schematic which is part of the Speco for 8L 00056, shows correctly that there are three inputs to the M115 which is added in slot C28. The Add/Delete sheet, however, fails to include the wiring of the TS4 (Ø) input to C28B1. The following Add will resolve the problem:

C28B1 to CØ4V1

COMPANY CONFIDENTIAL

digital	FIELD SERVICE TECHNICAL MANUAL				Option or Designator
	12 Bit <input checked="" type="checkbox"/>	16 Bit <input type="checkbox"/>	18 Bit <input type="checkbox"/>	36 Bit <input type="checkbox"/>	PDP-8L

Title 3 CYCLE BREAK INTERMITTENT				Tech Tip Number PDP8L-TT-4		
All	Processor Applicability			Author S. Lamotte	Rev 0	Cross Reference
	8L			Approval W.E.Cummins	Date Aug 15	

PROBLEM: 3 Cycle break devices, with cables over 15ft. in length, have displayed a problem of intermittently not setting "Break". This is caused by "Ext 3 cycle L" being noisy at the processor. This condition brings up WC Set, when it shouldn't be there.

FIX: Ground "ext 3 cycle L" signal at processor, A34V2 B34C2

This Tech Tip apply's only to systems with 3 cycle break options, and no 1 cycle break devices.

Title 8L FUSE RATINGS				Tech Tip Number PDP8L-TT#5		
All	Processor Applicability			Author W. Freeman	Rev 0	Cross Reference
	8L			Approval W.Cummins	Date 12/1/73	

Because of the complaints about the 5 amp fuse in the +5 volt line (F-3) in the 718 power supply, an investigation was undertaken. The following facts have been revealed:

- 1) The PDP-8L draws six amps on the +5 volt line under full load conditions.
- 2) This load will occasionally blow the 5 amp fuse (F-3)
- 3) The other two fuse ratings were found to be correct.

It was found that the use of a 6 amp fuse for F-3 produced reliable operation. An ECO for changing this specification (#718-00007) is being prepared for distribution. This will be a permanent change for all 718 power supplies. The proper fuse ratings for the 718 power supply are:

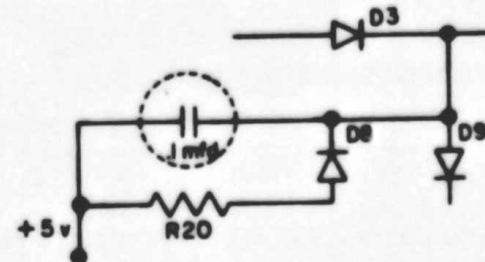
F-1	15 amp slow blow
F-2	4 amp slow blow
F-3	6 amp common

COMPANY CONFIDENTIAL

Title		Tech Tip	
8L AFFECTED BY EXTERNAL NOISE		Number PDP8L TT#7	
All	Processor Applicability	Author	Rev
	8L	W. Freeman	g
		Approval	Date
		W. E. Cummins	11/14/73
		Cross Reference	

TECH TIP NUMBER PDP8L-TT-6
WAS NEVER PUBLISHED.

If external noise from surrounding equipment is affecting an 8L, the installation of a .1 mfd. capacitor on the G785 module as shown in the schematic below will resolve the problem.



Mel Arsenault

March 1969

Approximately 150 8/L's have been shipped to the field with the capacitor connected to the base of Q1 rather than the junction of D3, D8, and D9. A symptom indicative of this condition is random stopping in the run state, all switch functions inoperative and inability to restart except following a power-down, power-up operation.

Title		Tech Tip	
B RUN NOISE		Number PDP8L-TT-8	
All	Processor Applicability	Author	Rev
	8L	W. Freeman	g
		Approval	Date
		W. Cummins	12/05/73
		Cross Reference	

B RUN NOISE

It has been found that ground noise caused by the MB bits is causing B RUN to move. The noise can be eliminated by tying the emitters of all the transistors on the M623 together.

ECO's M623 - 00001 and 00002 implement this solution.

Title		Tech Tip	
DOUBLE SELECTION OF G221		Number PDP8L-TT -9	
All	Processor Applicability	Author	Rev
	8I 8L	W. Freeman	g
		Approval	Date
		W. E. Cummins	12/05/73
		Cross Reference	
		G221-TT-1	

COMPANY CONFIDENTIAL