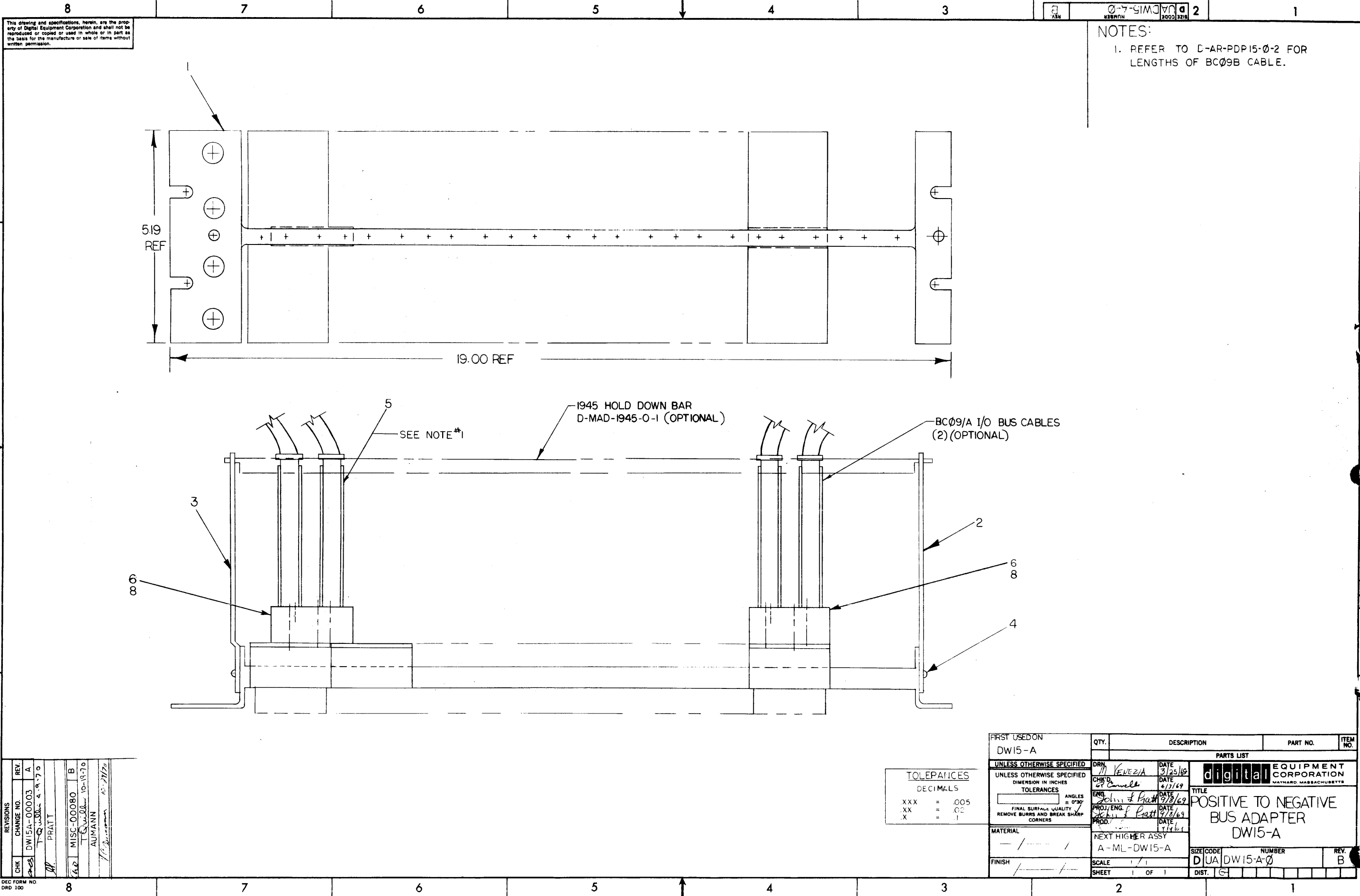


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DEC FORM NO.
DRA 103



REV.	CHANGE NO.	CHK.
A	DW15A-00003	PRATT
B	MISC-00080	PRATT
C	TQ-00010-10-10-10	AUMANN
D	TQ-00010-10-10-10	AUMANN

TOLERANCES	
DECIMALS	
XXX	= .005
.XX	= .02
.X	= .1

FIRST USED ON DW15-A	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN M. VENEZIA	DATE 3/25/69	PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	CHK'D C. Connelley	DATE 4/17/69	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	ENG. John & Pratt	DATE 9/18/69	TITLE POSITIVE TO NEGATIVE BUS ADAPTER DW15-A	
MATERIAL A-ML-DW15-A	PROJ/ENG. John & Pratt	DATE 9/18/69	SIZE CODE DUA DW15-A-0	
FINISH / /	PROD. / /	DATE 7/14/69	NUMBER REV. B	
NEXT HIGHER ASSY A-ML-DW15-A		SCALE 1 / 1		
SHEET 1 OF 1		DIST. G		

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY A. RAIMONDI
DATE 3/26/69

CHECKED	<i>A. Carwell</i>
DATE	4/1/69

SECTION	1
---------	---

ENG *John F Pratt* 9/8/60
DATE

PROD	9/9/69
DATE	Feb 1970

ISSUED SECT.	1
--------------	---

ITEM NO.	DWG NO. / PART NO.
----------	--------------------

DESCRIPTION

1	D-AD-7006257-0-0
---	------------------

WIRED ASSY DW15-A

2	C-MD-5302486-0-0
---	------------------

RIGHT END PANEL

3	C-MD-5302485-0-0
---	------------------

LEFT END PANEL

4	90-06507
---	----------

POP RIVET #AD44 BS

5	D-UA-BC09B-0-0
---	----------------

M912 TO M912 CABEE

6	D-5C-1209850-0-0
---	------------------

NYLON RETAINER BLOCK CEMENT

~~7~~ ~~D-SC-1209850-0-0~~

~~NYLON RETAINER BLOCK~~

8	9007799
---	---------

SCR, FILL HD 8-32 $\times$ 1- $\frac{1}{2}$ LG

TITLE

POS TO NEG BUS ADAPTER DW15-A

ASSY NO.

D-UA-DW15-A-0

SIZE	CODE
------	------

A PL

NUMBER

DW15-A-0

REV.

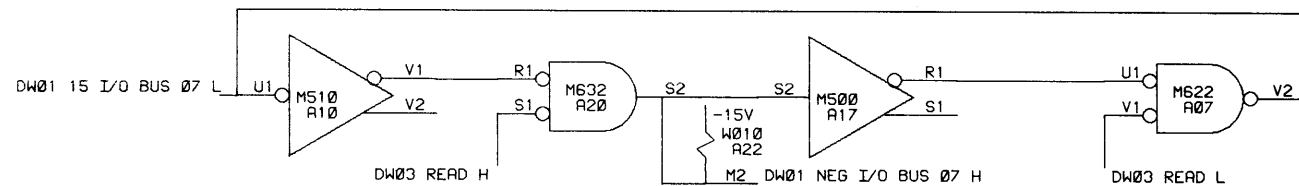
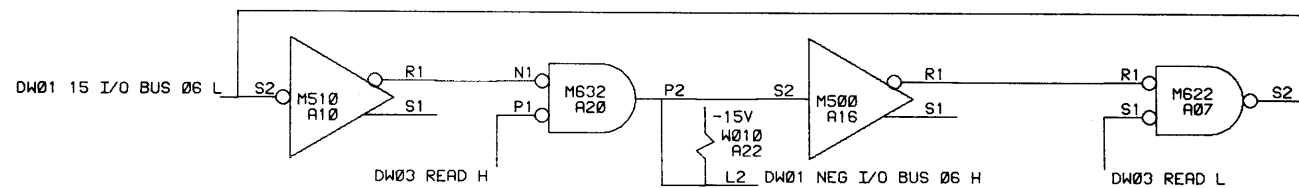
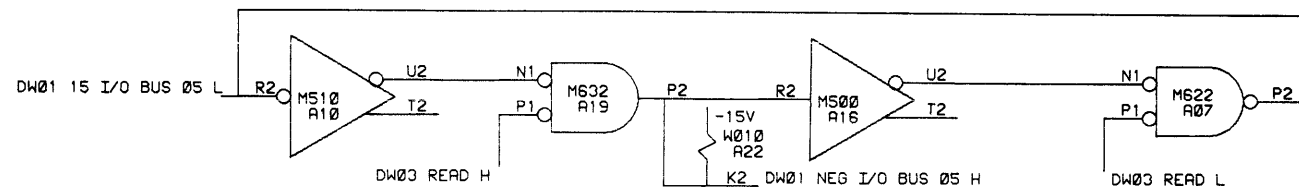
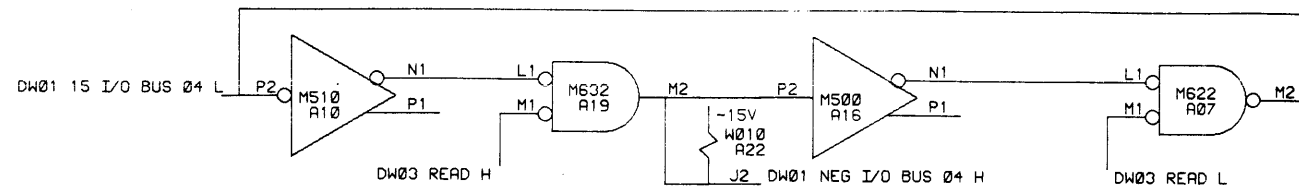
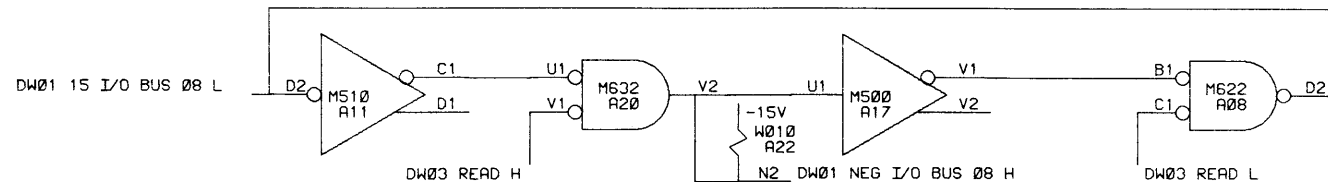
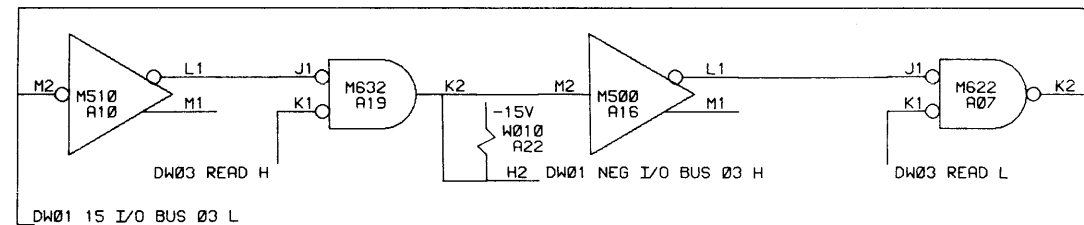
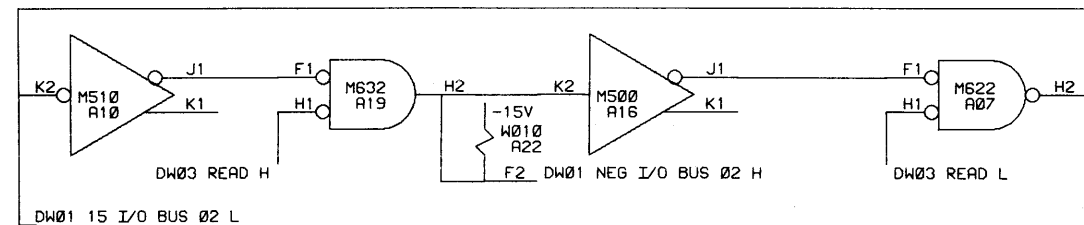
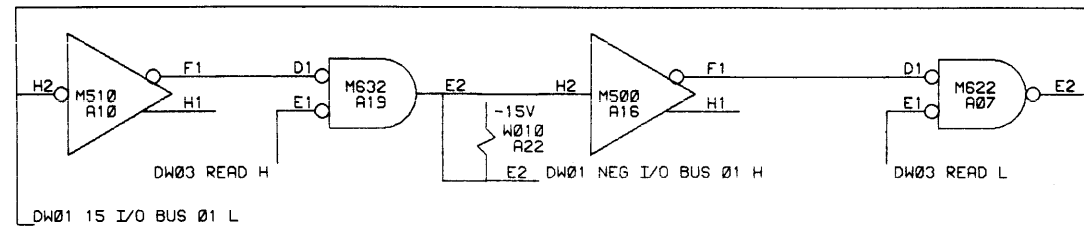
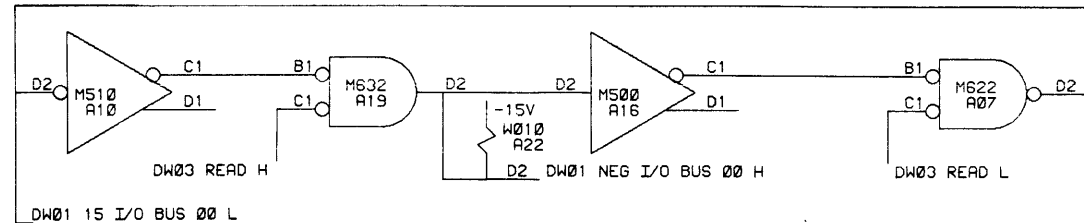
B

ECO NO.	
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00080

DEC FORM NO.
DRA 110

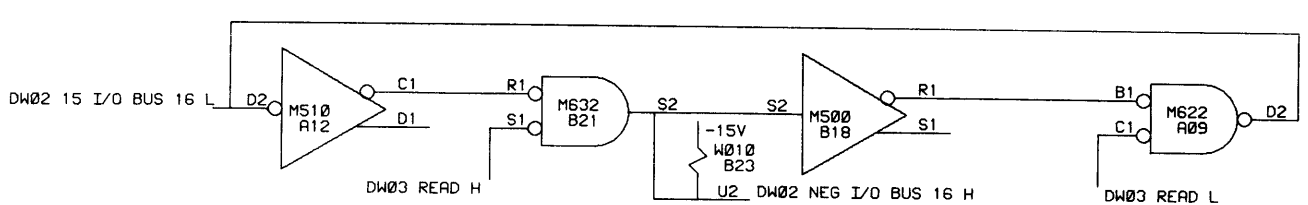
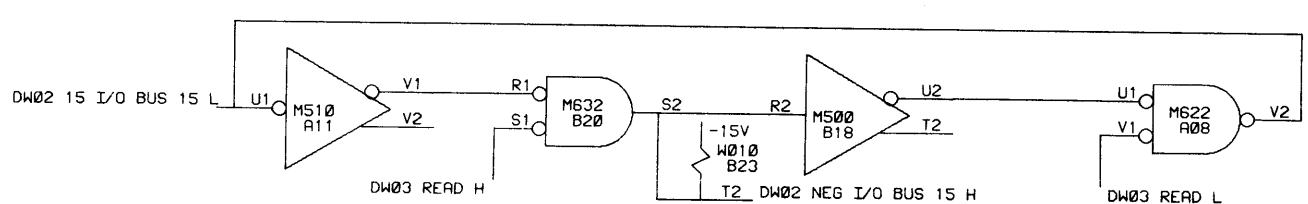
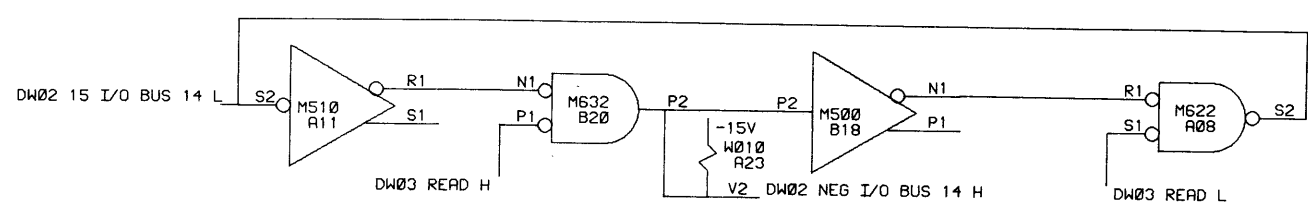
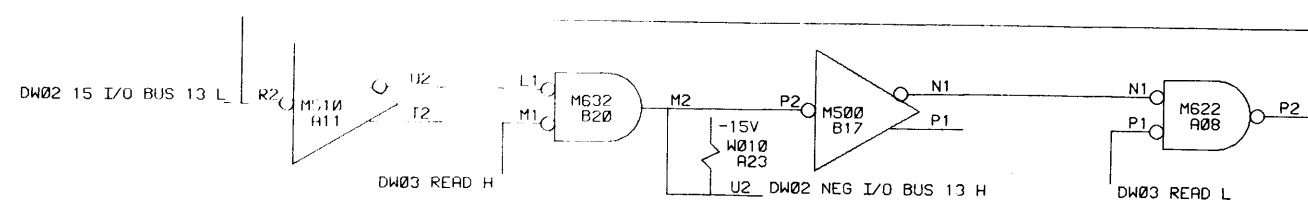
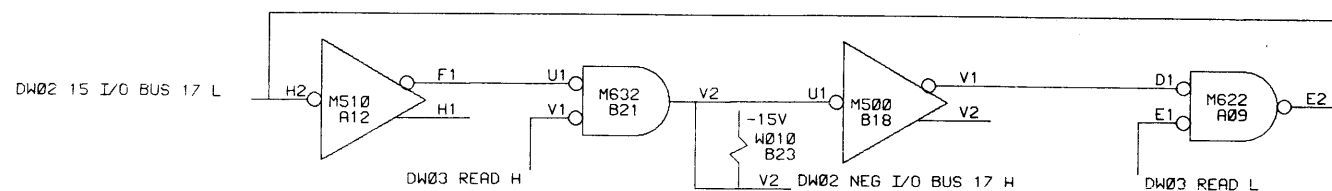
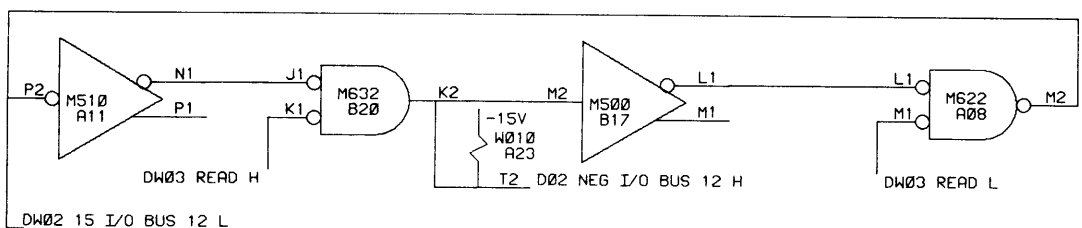
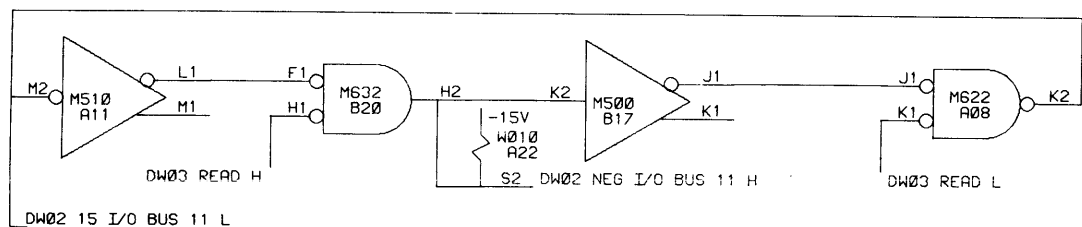
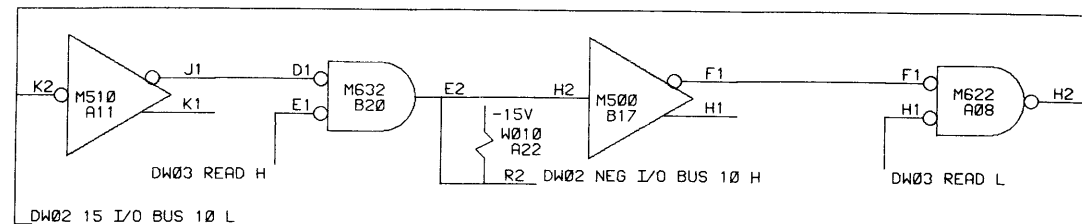
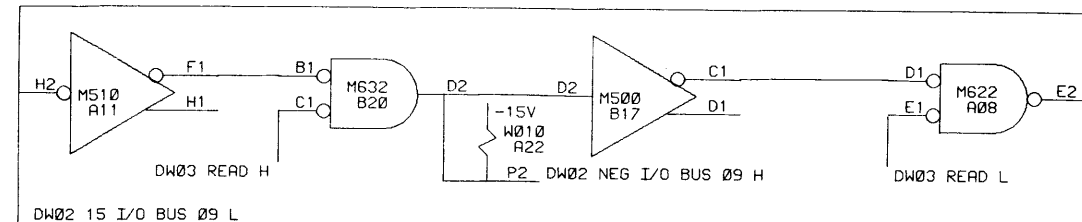
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REVISIONS		
CHK	CHANGE NO.	REV.

DRN	K BOGGS	DATE	7-3-69	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D	N RHEAULT	DATE	8-1-69	
ENG	J PRATT	DATE	9-1-69	
PROJ. ENG.	J PRATT	DATE	9-3-69	
PRD.	F LASKEY	DATE	7-9-69	
FIRST USED ON	DW15	TITLE		
SCALE		BI DIRECT I/O BUS 0-8		
SHEET	OF	SIZE CODE	NUMBER	REV.
		D BS	DW15-A-01	00
		DIST.		

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REVISIONS		
CHK	CHANGE NO.	REV.

DRN. K ROGGS	DATE 9-3-69	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D. N RHEAULT	DATE 9-3-69	
ENG. J PRATT	DATE 9-3-69	
PROJ. ENG. J PRATT	DATE 9-3-69	
PROD. F LASKEY	DATE 9-9-69	
FIRST USED ON		TITLE
DW15		BI DIRECT I/O BUS 9-17
SCALE	SIZE CODE	NUMBER
SHEET 1 OF 1	D BS	DW15-A-02
DIST.		REV. 00

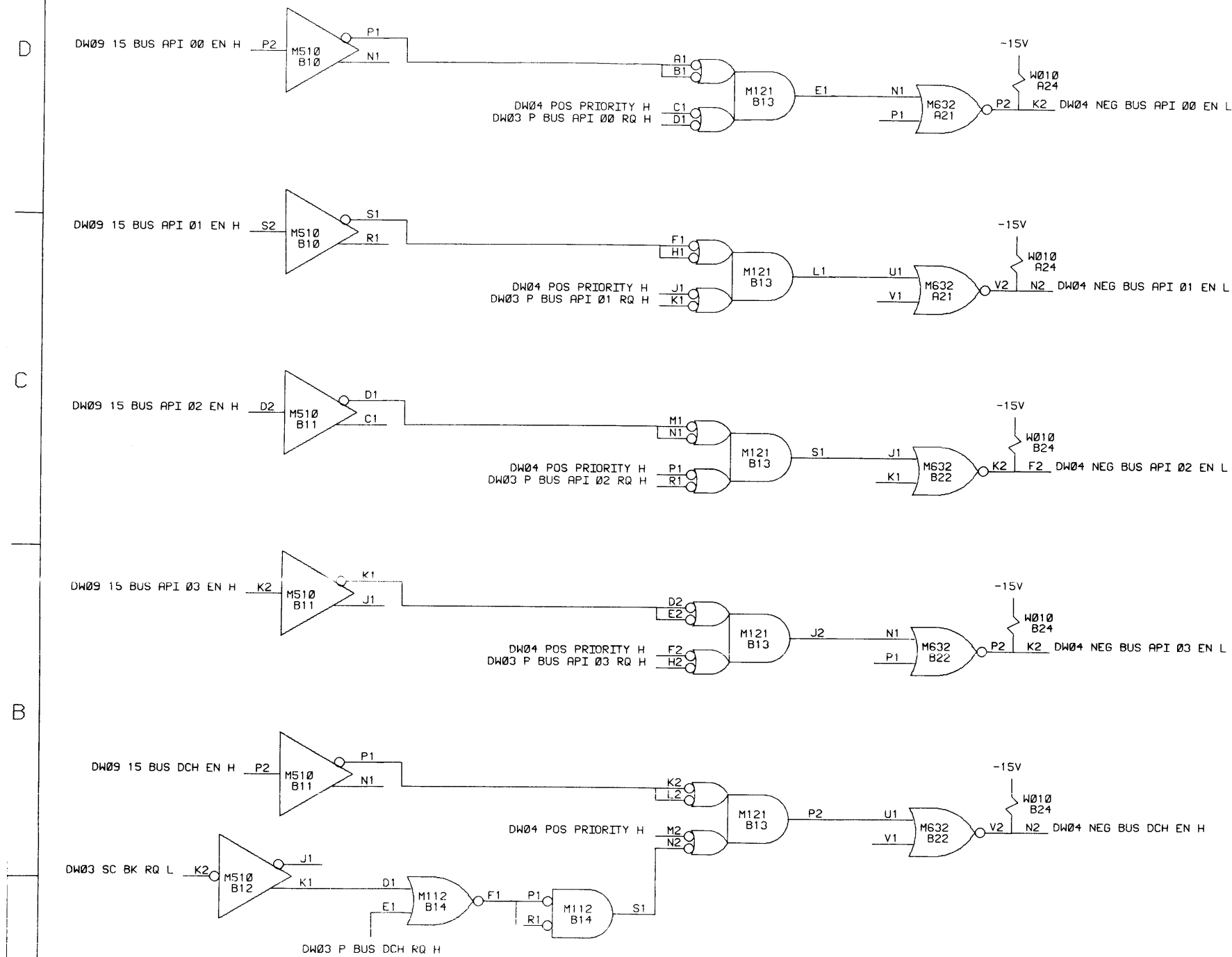
The four logic diagrams are as follows:

- Diagram 1:** Input: DW03 N BUS RD RQ L. Logic: Inverter (M500 A17) output U2 is connected to input L1 of AND gate (M622 A09). Input M1 of M622 A09 is connected to input P2 of AND gate (M622 A09). Output M2 of M622 A09 is connected to output DW03 15 BUS RD RQ L.
- Diagram 2:** Input: DW03 P BUS RD STAT L. Logic: Inverter (M510 A12) output S1 is connected to input R1 of AND gate (M632 A20). Input L1 of M632 A20 is connected to input M1 of AND gate (M632 A20). Output M2 of M632 A20 is connected to output DW03 NEG BUS RD STAT L.
- Diagram 3:** Input: DW03 15 SC BK RQ L. Logic: Inverter (M500 B17) output U2 is connected to input N1 of AND gate (M622 A09). Input P1 of M622 A09 is connected to input P2 of AND gate (M622 A09). Output P2 of M622 A09 is connected to output DW03 15 SC BK RQ L.
- Diagram 4:** Input: DW03 15 BUS API 00 RQ L. Logic: Inverter (M500 A18) output L1 is connected to input H1 of AND gate (M112 B14). Input J1 of M112 B14 is connected to input K1 of AND gate (M112 B14). Output F2 of M112 B14 is connected to input S1 of AND gate (M622 B09). Input R1 of M622 B09 is connected to input S2 of AND gate (M622 B09). Output S2 of M622 B09 is connected to output DW03 15 BUS API 00 RQ L.

[illegible]

DRAWN. K BOGGS	DATE 9-3-69	digital CORPORATION MAYNARD, MASSACHUSETTS		
CHECK'D. N RHEAULT	DATE 9-3-69			
ENG. J PRATT	DATE 9-3-69	TITLE		
PROJ. ENG. J PRATT	DATE 9-3-69	AP DCH RQ+BI DI BS CON		
PROD. F LASKLY	DATE 9-9-69			
FIRST USED ON DW15				
SCALE		SIZE CODE	NUMBER	REV.
SHEET 1 OF 1		D BS	DW15-A-03	C
		DIST.		

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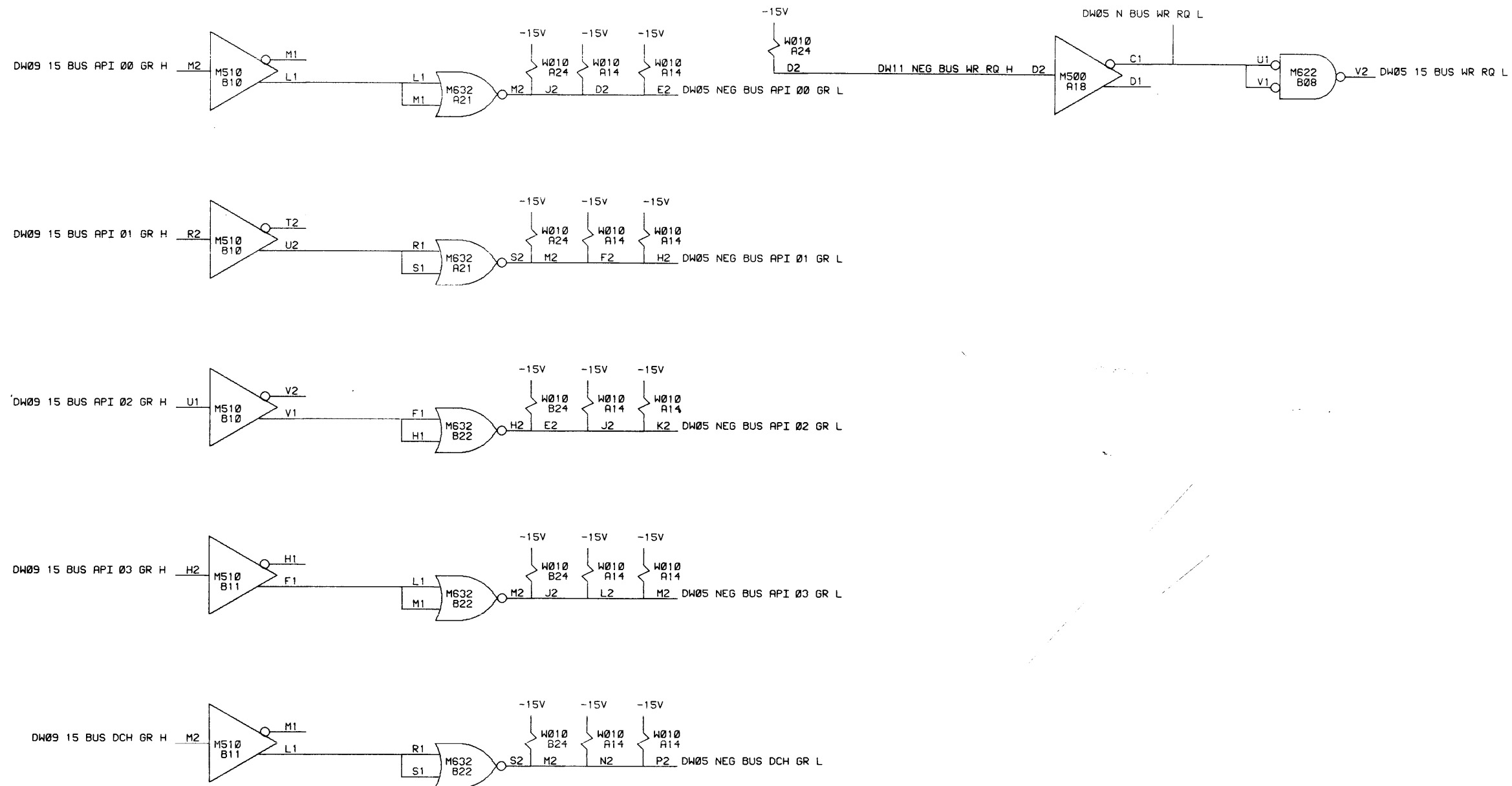


M121 B13 M121 B13
V1 U1 DW04 POS PRIORITY H

REVISIONS		
CHK	CHANGE NO.	REV.
	DW15A-00004	A

DRN. K BOGGS	DATE 5/3/69	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
CHKD. N RHEAULT	DATE 5/3/69				
ENG. J PRATT	DATE 5/3/69	TITLE API + DCH ENABLES			
PROJ. ENG. J PRATT	DATE 5/3/69				
PROD. F LASKEY	DATE 5/9/69	FIRST USED ON DW15			
SCALE		SIZE CODE D BS	NUMBER DW15-A-04		REV. A
SHEET 1	OF 1	DIST.			

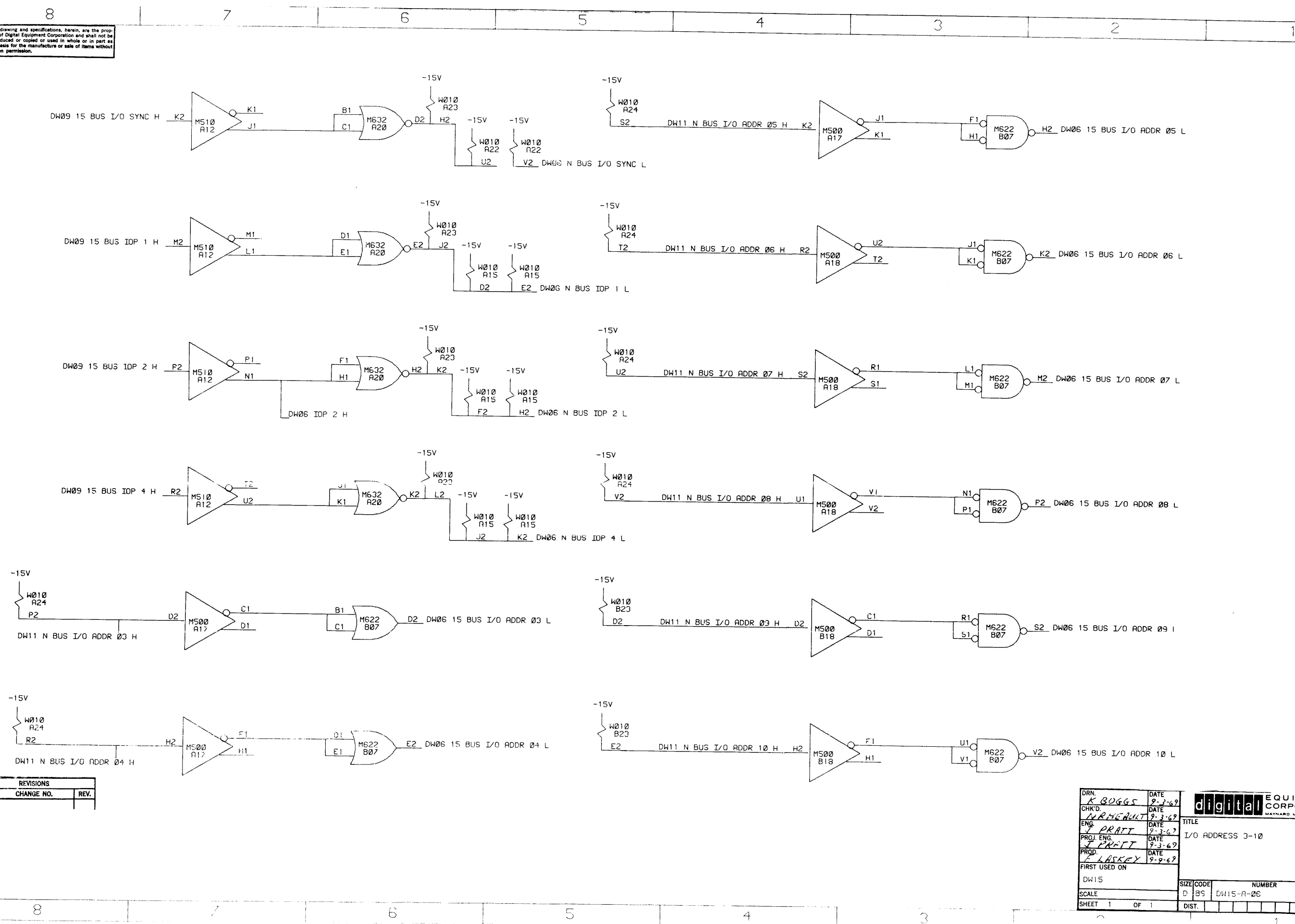
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REVISIONS		
CHK	CHANGE NO.	REV.

DRN	K 80665	DATE	9-3-69	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
CHK'D	N RHEAULT	DATE	9-3-69		
ENG	T PRATT	DATE	9-3-69		
PROJ. ENG	T PRATT	DATE	9-3-69		
PROD.	F LASKEY	DATE	9-9-69		
FIRST USED ON				TITLE	
DW15				API + DCH GRANTS	
SCALE				SIZE CODE	NUMBER
SHEET 1 OF 1				D BS	DW15-A-05
				DIST.	REV. 00

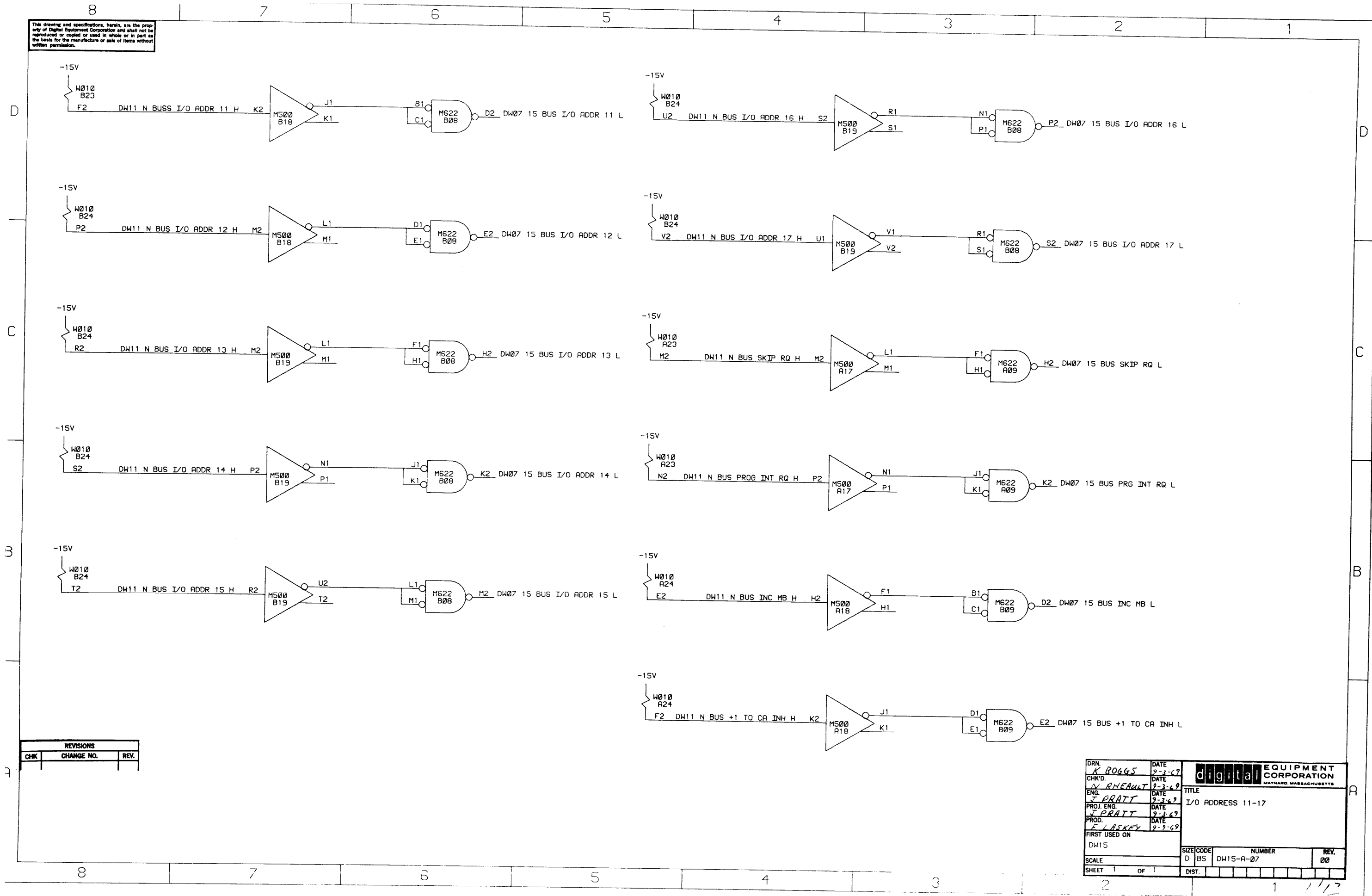
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REVISIONS		
CHK	CHANGE NO.	REV.

DRN. <i>K. BOGGS</i>	DATE <i>8-2-69</i>	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE I/O ADDRESS 3-10
CHK'D <i>M. HEAL</i>	DATE <i>8-3-69</i>		
ENG. <i>J. PRATT</i>	DATE <i>8-3-69</i>		
PROJ. ENG. <i>J. PRATT</i>	DATE <i>8-3-69</i>		
PROD. <i>L. LASKEY</i>	DATE <i>8-2-69</i>		
FIRST USED ON		SIZE CODE	
DW15		D	BS
SCALE		NUMBER	
SHEET 1 OF 1		DW15-A-06	
DIST.		REV. 00	

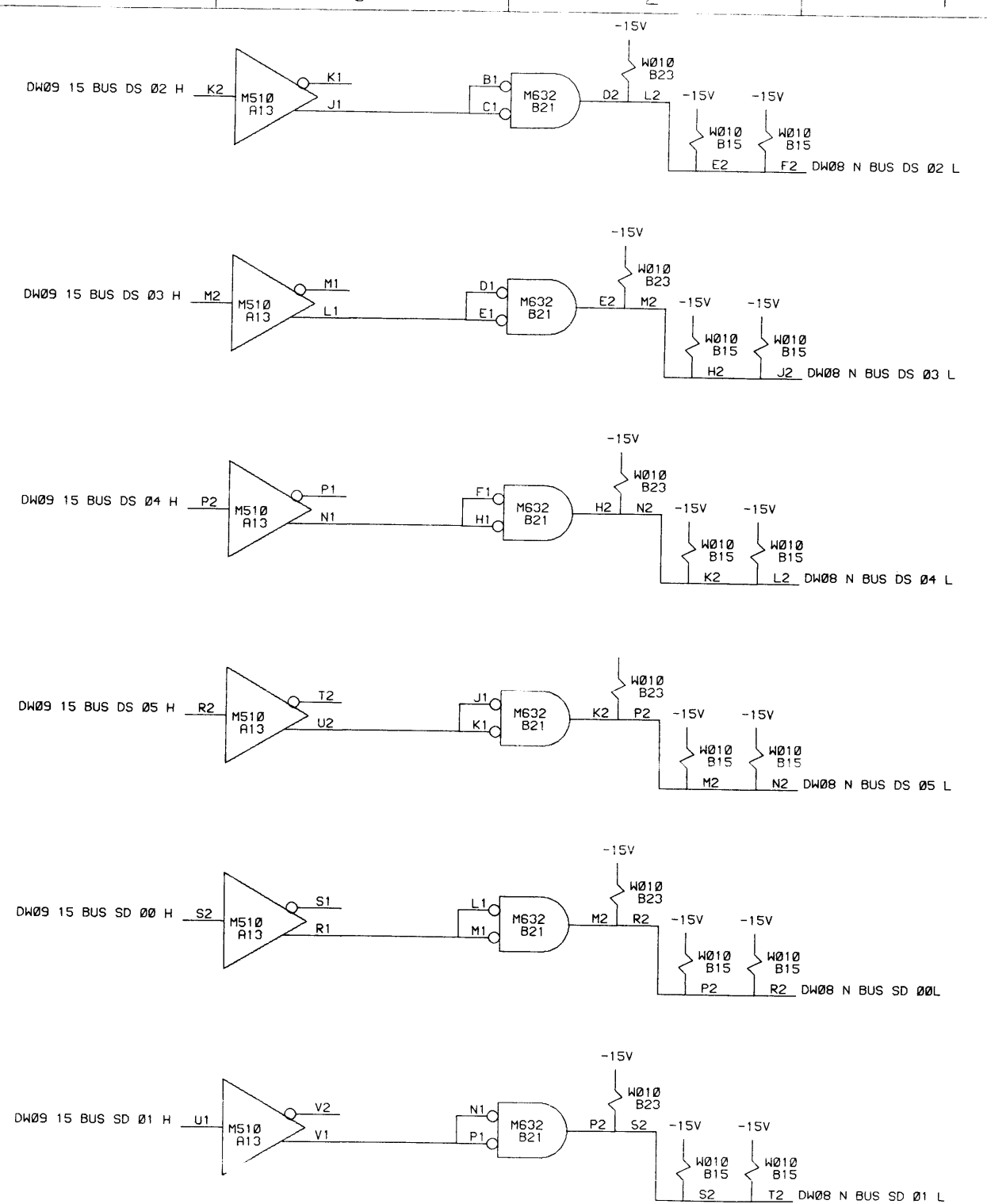
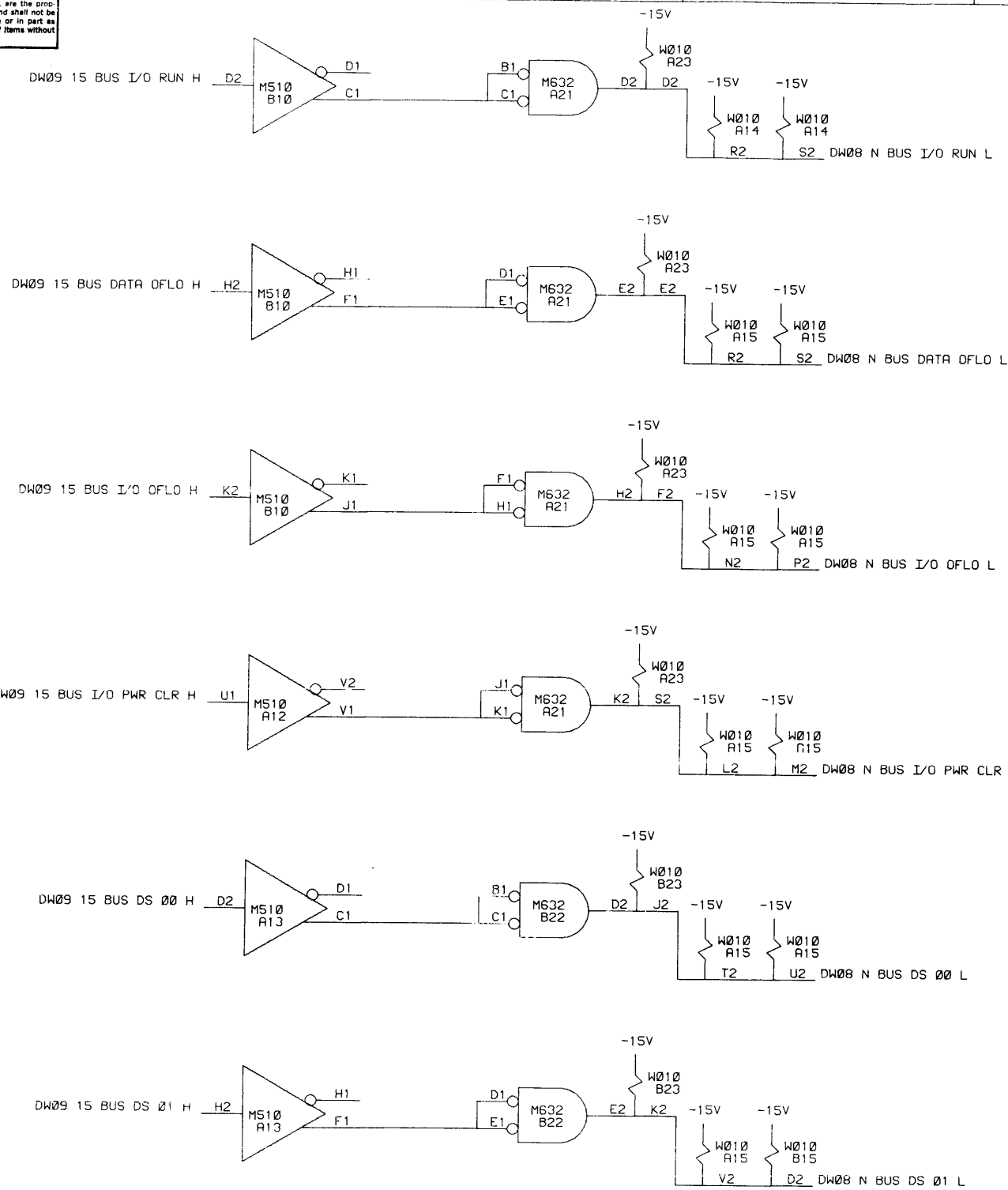
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REVISIONS		
CHK	CHANGE NO.	REV.

DRN: K 00445	DATE: 8-3-69	digital EQUIPMENT CORPORATION MATERNAL, MASSACHUSETTS
CHK'D: N RHEAULT	DATE: 8-3-69	
ENG: J PRATT	DATE: 8-3-69	
PROJ. ENG: J PRATT	DATE: 8-3-69	
PROD: E LASKEY	DATE: 8-3-69	
FIRST USED ON: DW15		TITLE: I/O ADDRESS 11-17
SCALE: 1 OF 1	SHEET: 1 OF 1	SIZE: D BS CODE: DW15-A-07 NUMBER: 00 REV: 00

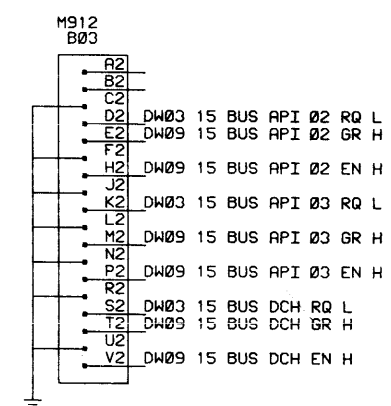
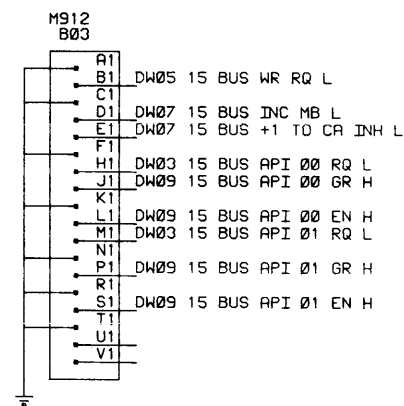
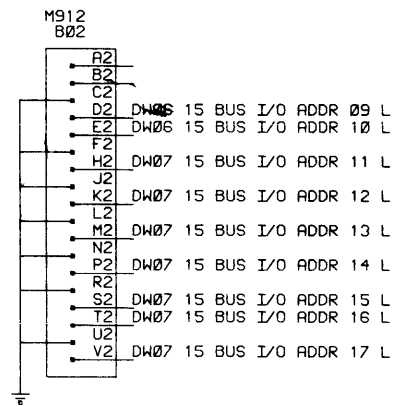
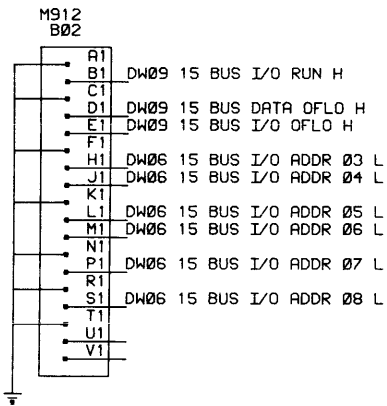
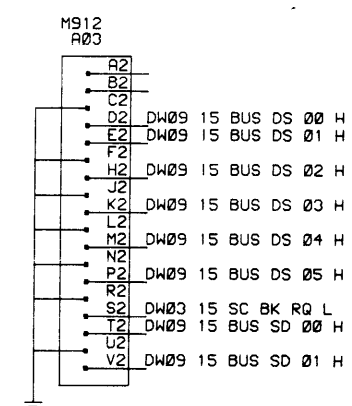
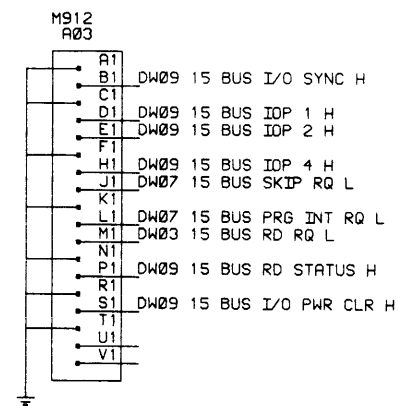
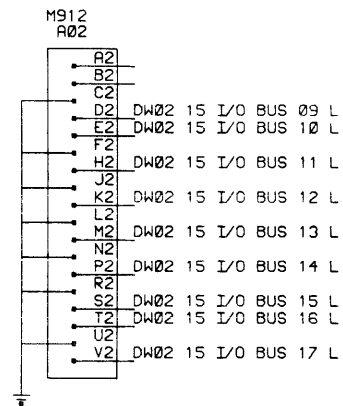
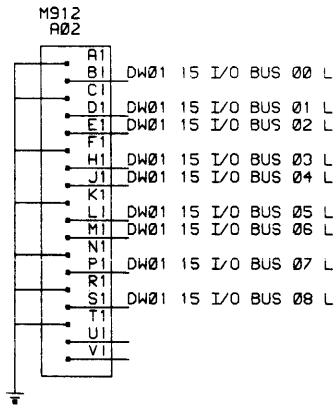
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REVISIONS		
CHK	CHANGE NO.	REV.

DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D.	DATE	
ENG.	DATE	
PROJ. ENG.	DATE	
PROD.	DATE	
FIRST USED ON	DATE	
DW15		TITLE ONE WAY SIGNALS
SCALE	SIZE CODE	
SHEET	OF	
NUMBER		REV.
DW15-A-08		00

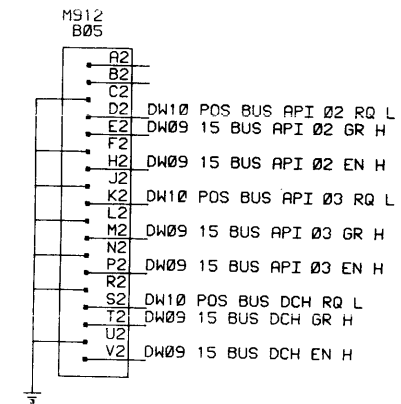
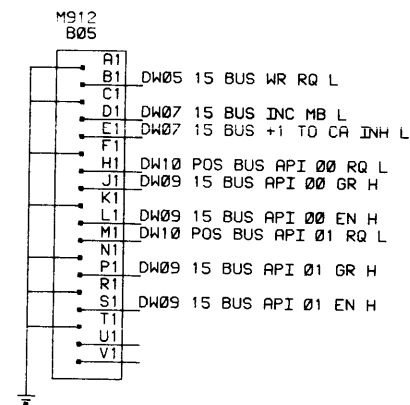
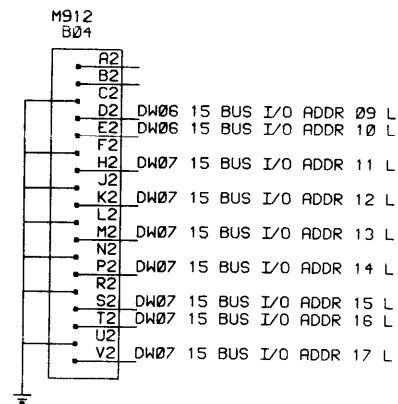
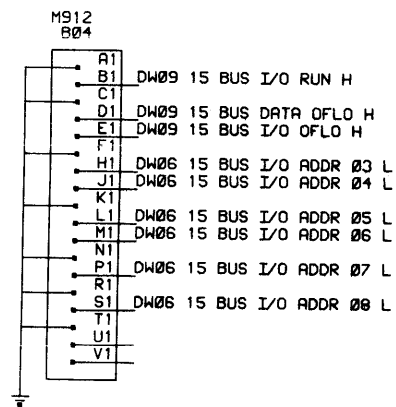
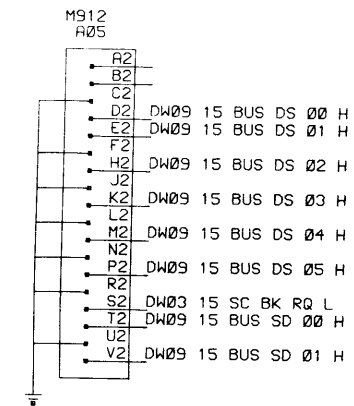
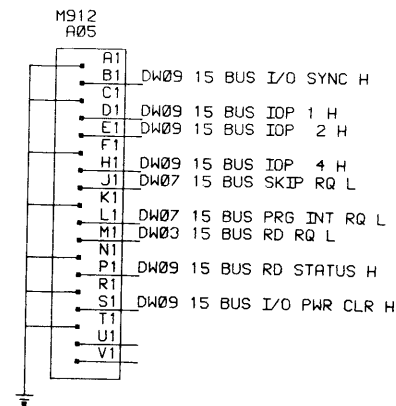
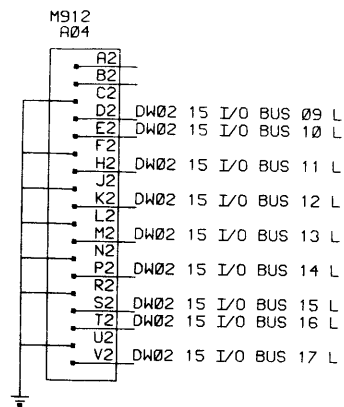
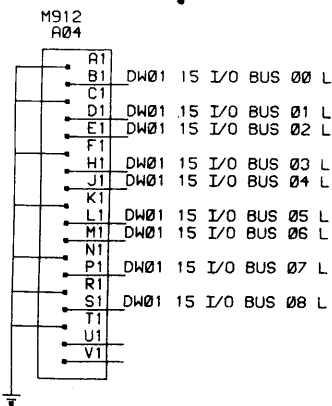
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REVISIONS		
CHK	CHANGE NO.	REV.

DRN.	K. ROGGS	DATE	2-3-69	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
CHK'D.	N. RHEAULT	DATE	2-3-69				
ENG.	J. PRATT	DATE	2-3-69				
PROJ. ENG.	J. PRATT	DATE	2-3-69				
PROD.	F. LASKY	DATE	2-3-69				
FIRST USED ON				TITLE	POSITIVE INPUT CABLES		
DW15				SIZE	CODE	NUMBER	REV.
SCALE				D	BS	DW15-A-03	00
SHEET				DIST.			

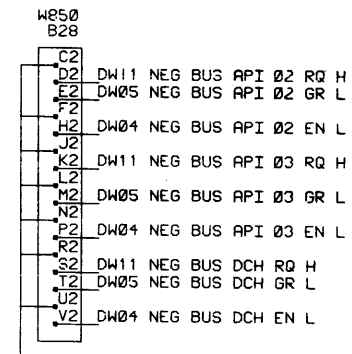
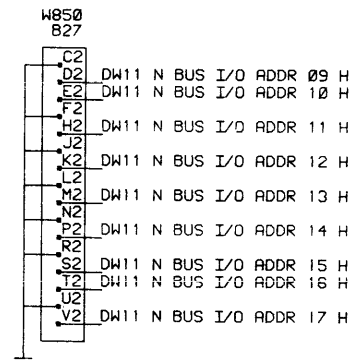
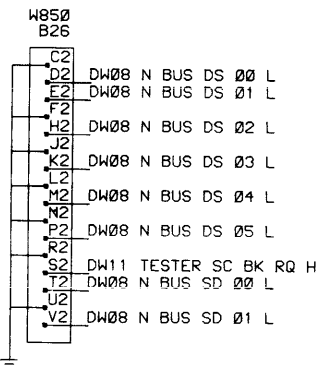
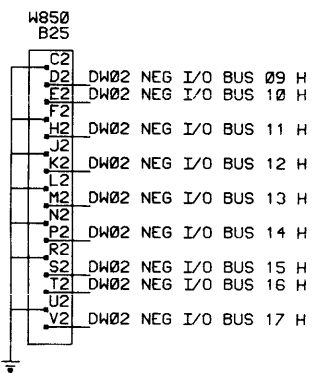
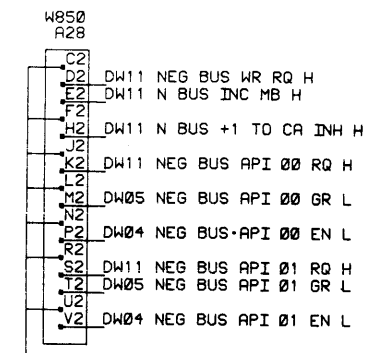
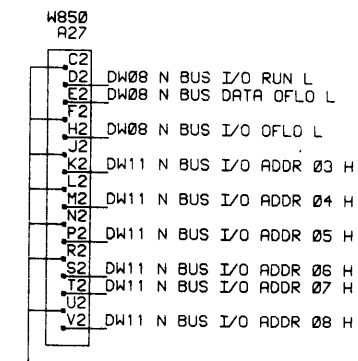
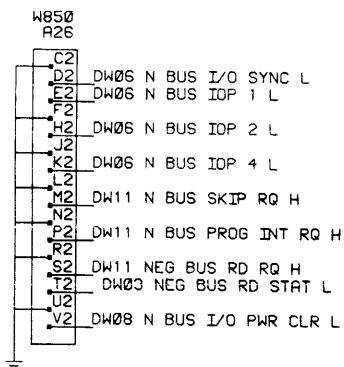
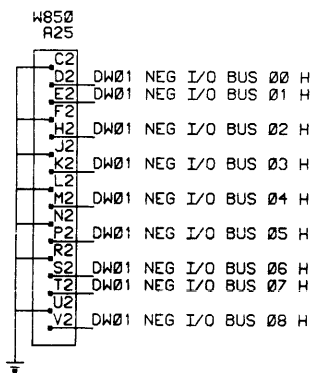
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REVISIONS		
CHK	CHANGE NO.	REV.

DRN	K80465	DATE	9-3-69	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
CHKD	N RHEAULT	DATE	9-3-69		
ENG	T PRATT	DATE	9-3-69		
PROJ. ENG.	T PRATT	DATE	9-3-69		
PROD.	E LASKEY	DATE	9-3-69		
FIRST USED ON				TITLE	POSITIVE BUS CABLES
DW15				SIZE	CODE
SCALE				D	BS
SHEET 1 OF 1				NUMBER	DW15-A-10
				REV.	00

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REVISIONS		
CHK	CHANGE NO.	REV.

DRN.	K BOGGS	DATE	9-3-67	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
CHK'D.	N RHEAULT	DATE	9-3-68		
ENG.	J PRATT	DATE	9-3-69		
PROJ. ENG.	J PRATT	DATE	9-3-69		
PROD.	K LASKY	DATE	9-9-68		
FIRST USED ON	DW15	SIZE	CODE	NUMBER	REV.
SCALE	D BS	DW15-A-11	00		
SHEET 1	OF 1	DIST.			

 SIZE CODE NUMBER
 D M J DW 5-A-12
 REV. C

digital		EQUIPMENT CORPORATION	
TITLE			
MODULE UTILIZATION			
SIZE CODE		NUMBER	REV
D1MU		DW15-A-12	
DIST.			

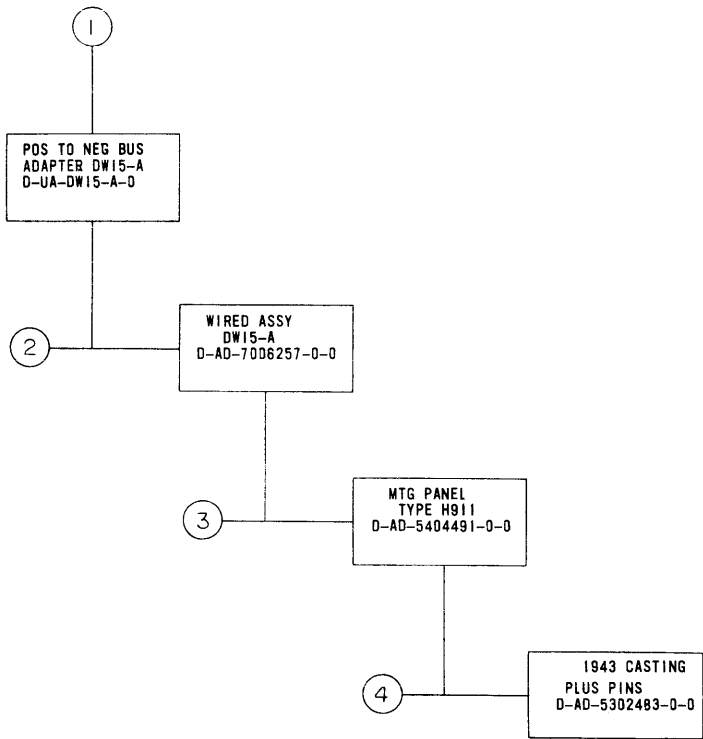
DEC FORM NO.
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DRA 110

DRWG NO K-WL-DWI5-A-13		REVLTR C																					
<table border="1" style="width: 100%; border-collapse: collapse; margin-top: 20px;"> <thead> <tr> <th colspan="4" style="text-align: center;">REVISIONS</th> </tr> <tr> <th style="width: 10%;">REV LTR</th> <th style="width: 15%;">ECO NO</th> <th style="width: 15%;">DATE</th> <th style="width: 10%;">ENG</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>DWI5A-00002</td> <td>12-9-69</td> <td><i>[Signature]</i></td> </tr> <tr> <td>B</td> <td>DWI5A-00003</td> <td>4-9-70</td> <td><i>[Signature]</i></td> </tr> <tr> <td>C</td> <td>DWI5A-00004</td> <td>10/14/70</td> <td><i>[Signature]</i></td> </tr> </tbody> </table>				REVISIONS				REV LTR	ECO NO	DATE	ENG	A	DWI5A-00002	12-9-69	<i>[Signature]</i>	B	DWI5A-00003	4-9-70	<i>[Signature]</i>	C	DWI5A-00004	10/14/70	<i>[Signature]</i>
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MECHANICAL				DEPT USAGE			ELECTRICAL				DEPT USAGE		
FIND NO	DESCRIPTION	PART NO	PROD	CUST	F	C	FIND NO	DESCRIPTION	PART NO	PROD	CUST	F	C
1	POS TO NEG BUS ADAPTER DW15-A POS TO NEG BUS ADAPTER DW15-A (PL) RIGHT END PANEL LEFT END PANEL H912 TO H912 CABLE NYLON RETAINER BLOCK (OFFSET) NYLON RETAINER BLOCK	D-UA-DW15-A-0 A-PL-DW15-A-0 C-MD-5302486-0-0 C-MD-5302485-0-0 D-UA-8028-8-0 C-MD-7407127-0-0 C-IA-7405575-0-0					1	POS TO NEG BUS ADAPTER DW15-A BI DIRECTIONAL BUS #8-88 BI DIRECTIONAL BUS #9-17 API RQ PRIORITY SELECTION GRANT GATING IO ADDR #3-18 IO ADDR 11-17 ASSORTED SIGNALS DW15 INPUT CABLES POS DEV OUTPUT CABLES NEG BUS OUT CABLES MODULE UTILIZATION MODULE UTILIZATION (PL) WIRE LIST ENGINEERING SPECS	A-ML-DW15-A D-BB-DW15-A-1 D-BB-DW15-A-2 D-BB-DW15-A-3 D-BB-DW15-A-4 D-BB-DW15-A-5 D-BB-DW15-A-6 D-BB-DW15-A-7 D-BB-DW15-A-8 D-IC-DW15-A-8 D-IC-DW15-A-10 D-IC-DW15-A-11 D-MU-DW15-A-12 A-PL-DW15-A-12 K-WL-DW15-A-13 A-SP-DW15-A-15				
2	WIRED ASSY DW15-A WIRED ASSY DW15-A (PL) LOGIC FRAME DECALS	D-AD-7006257-0-0 A-PL-7006257-0-0 A-DC-7406371-0-0					2	WIRED ASSY DW15-A	D-AD-7006257-0-0				
3	MTG PANEL TYPE H911 MTG PANEL TYPE H911 (PL) 288 PIN CONN BLOCK TYPE #H883	D-AD-5404491-0-0 A-PL-5404491-0-0 E-SC-1205348-0-0											
4	1943 CASTING PLUS PINS 1943 CASTING PLUS PINS (PL) 1943 FRAME CASTING	D-AD-5302483-0-0 A-PL-5302483-0-0 E-MD-1202885-0-0											

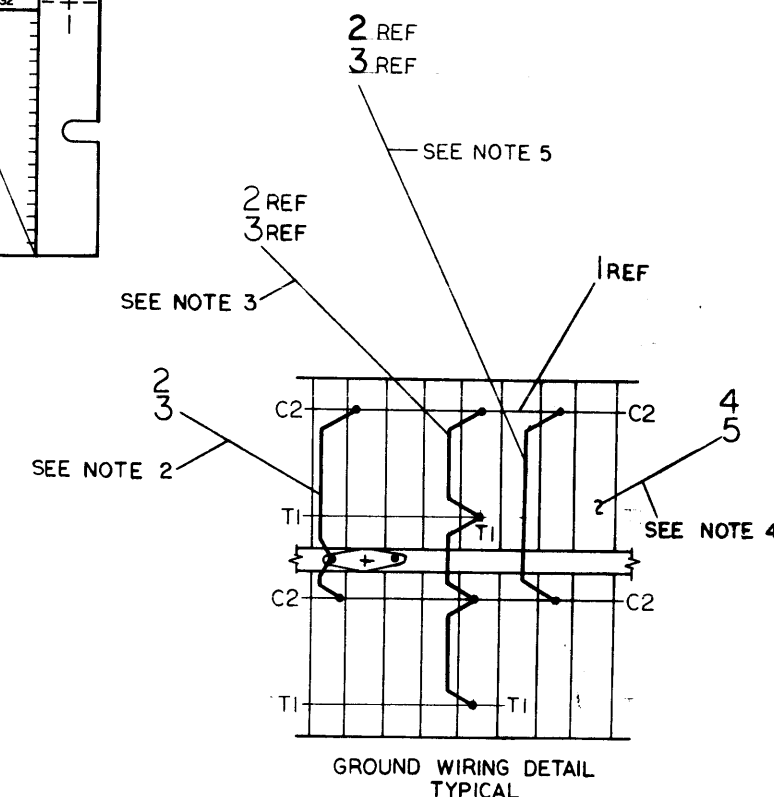
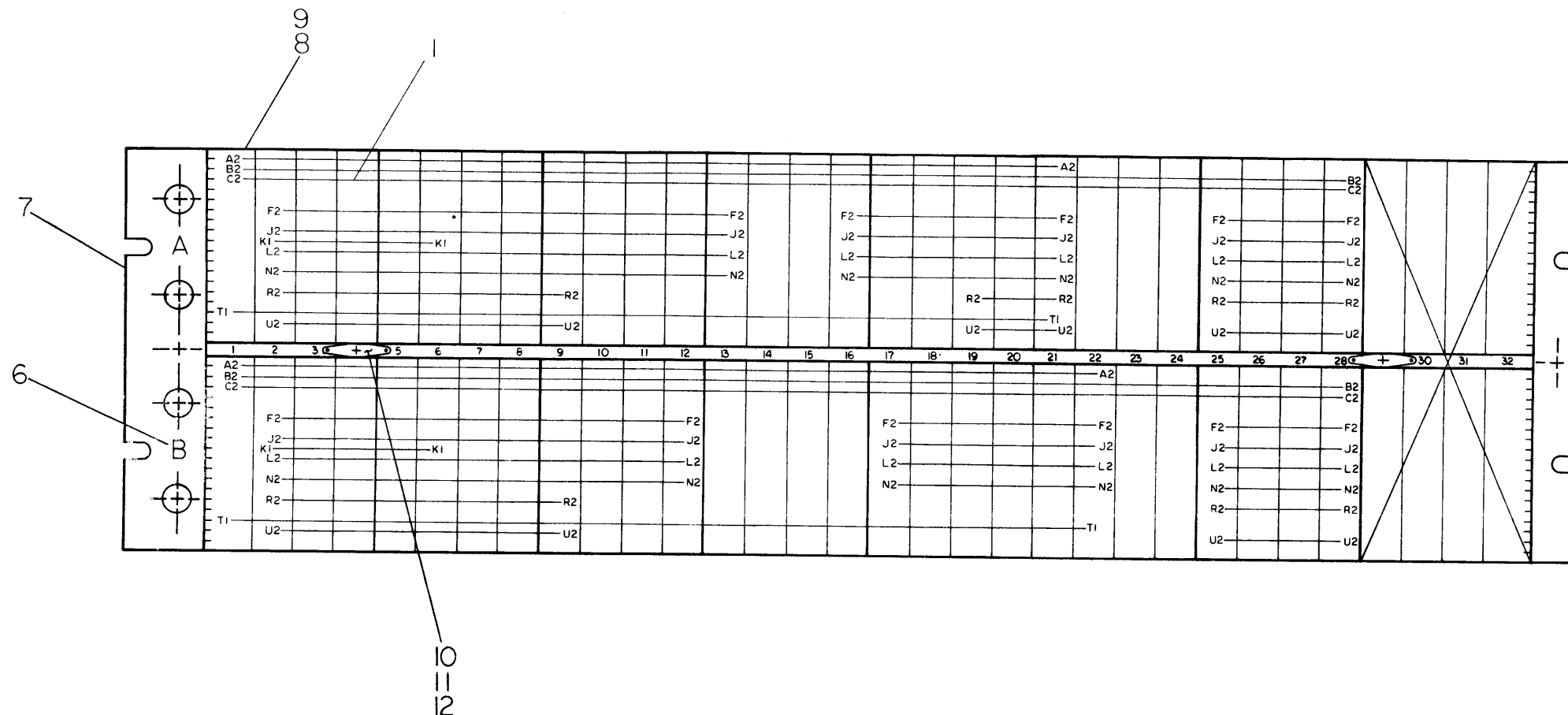
REV	CHANGE NO.	DATE	BY	CHK
1	DW15A-00004	10.15.10	PHATT	PHATT
2	DW15A-00005	10.15.10	PHATT	PHATT
3	DW15A-00006	10.15.10	PHATT	PHATT
4	DW15A-00007	10.15.10	PHATT	PHATT
5	DW15A-00008	10.15.10	PHATT	PHATT
6	DW15A-00009	10.15.10	PHATT	PHATT
7	DW15A-00010	10.15.10	PHATT	PHATT
8	DW15A-00011	10.15.10	PHATT	PHATT

FIRST USED ON OPTION/MODE		QTY.	DESCRIPTION	PART NO. 7	ITEM NO.
DW15-A					
UNLESS OTHERWISE SPECIFIED		DRN	DATE	PARTS LIST	
UNLESS OTHERWISE SPECIFIED		CHKD	DATE	digital EQUIPMENT CORPORATION	
DIMENSION IN INCHES		ENG	DATE	MAYNARD, MASSACHUSETTS	
TOLERANCES		PROJ. ENG.	DATE	TITLE	
DECIMALS FRACTIONS ANGLES		PROD.	DATE	DWG INDEX LIST	
± .005 ± 1/64 ± .030				DW15-A	
FINAL SURFACE QUALITY				SIZE CODE	
REMOVE BURRS AND BREAK SHARP CORNERS				NUMBER	
MATERIAL				REV.	
FINISH				B	
NEXT HIGHER ASSY				SCALE	
A-ML-DW15-A				NONE	
SCALE				SHEET	
NONE				OF	
DIST.				G	

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NOTES:

1. CONNECTIONS ON ITEM NUMBER 1 & 2 TO BE LOCATED AND SOLDERED AT MINIMUM PRACTICAL HEIGHT ABOVE BLOCKS.
2. ALL CONNECTOR BLOCKS TO BE GROUNDED TO GROUND LUGS AS SHOWN, 2 PLACES.
3. JUMPER GROUND BUSSING AS SHOWN, 6 PLACES.
4. USE YELLOW WIRE (ITEM #4) FOR MACHINE WRAPPED AND BLUE WIRE (ITEM #5) FOR HAND WRAPPED WIRING.
5. JUMPER GROUND BUSSING AS SHOWN, 1 PLACE.



FIRST USED ON OPTION/MODEL DW15-A	QTY.	DESCRIPTION	PART NO.	ITEM NO.
DO NOT SCALE DRAWING	DRN A. Rainey	DATE 3-18-69	PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	CHK'D C. Canell	DATE 4-3-69	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TOLERANCES DECIMALS FRACTIONS ANGLES ± .005 ± 1/64 ± 0°30'	ENG John J. Platt	DATE 9/8/69	TITLE WIRED ASS'Y DW15-A	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	PROJ. ENG. John J. Platt	DATE 9/8/69	REV.	
MATERIAL	PROD.	DATE 1/19/69	SIZE/CODE D AD 7006257-0-0	
NEXT HIGHER ASSY D-UA-DW15-A-0	SCALE NONE	NUMBER 7006257-0-0		
FINISH	SHEET OF	DST.		

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS					QUANTITY / VARIATION															
PARTS LIST					DW15-A															
MADE BY A. RAIMONDI		CHECKED R. CARVELLI		SECTION																
DATE 3/18/69		DATE 4/1/69																		
ENG John F. Pratt 9/8/69		PROD 9/8/69		ISSUED SECT.																
DATE 9/8/69		DATE 9/8/69																		
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION																		
1	1205541	BUS STRIP			A/R															
2	9107560-1	#22 AWG BUS WIRE			A/R															
3	9107265	#22 TUBING, TEFLON, WHITE			A/R															
4	9105740-5	#30 AWG SOLID TEF INS WIRE, YEL			A/R															
5	9105740-7	#30 AWG SOLID TEF INS WIRE, BLU			A/R															
6	A-DC-7406371-0-0	LOGIC FRAME DECALS			1															
7	D-AD-53-2483-0-0	1943 CASTING PLUS PINS			1															
8	E-SC-1205348-0-0	288 PIN CONN BLOCK TYPE #H803			7															
9	9006120	SCR PHL HD FIL #8-32 X 5/8 LG SST			14															
10	9006775	TERMINAL #2116-08-00 SHAKEPROOF			2															
11	9006035-1	SCR PHL HD PAN #8-32 X 1/4 LG SST			2															
12	9006634	WASH INT TOOTH #8			4															
REF	K-WL-DW15-A-13	WIRE LIST																		
TITLE		ASSY NO.		SIZE	CODE	NUMBER		REV.	ECO NO.											
WIRED ASSY DW15-A		D-AD-7006257-0-0		A	PL	7006257-0-0														
		SHEET 1 OF 1		DIST.																

DEC FORM NO.
DRA 110

ENGINEERING SPECIFICATION		CONTINUATION SHEET																																					
TITLE DW15A Engineering Specifications																																							
2.3 Power Requirements <table><tr><td>AC</td><td>Voltage</td><td>115 I 10%</td></tr><tr><td></td><td>Current</td><td></td></tr><tr><td></td><td>Surge</td><td></td></tr><tr><td></td><td>Nominal</td><td></td></tr><tr><td>DC</td><td>Voltage</td><td>+5, -15V</td></tr><tr><td></td><td>Current</td><td>4A @ +5, 1A @ -15V</td></tr><tr><td></td><td>Surge</td><td></td></tr><tr><td></td><td>Nominal</td><td>To Be Supplied</td></tr></table> 2.4 Performance Specification <table><tr><td>Speed</td><td>-</td><td>1 Mhz</td></tr><tr><td>Capacities</td><td>-</td><td>N/A</td></tr><tr><td>Duty Cycle</td><td>-</td><td>100%</td></tr></table> 3. INSTALLATION INSTRUCTIONS 3.1 Uncrating Open shipping carton carefully and remove DW15A. Unwrap bubble packing. 3.2 Parts List <table><tr><td>1 - DW15A</td></tr><tr><td>1 - Set of Prints</td></tr><tr><td>1 - BC09B I/O Bus Cable</td></tr></table> 3.3 Assembly If DW15A is bought separately, mount in 19" cabinet. 3.4 Cabling The positive input BC09/B cable connects to the BA15, BB15, KP15, RF15, or the RP15. Refer to D-AR-PDP15-0-2 for length and routing of the input bus cable. Continuation of positive bus connects to AB03, ABC4 in DW15. Negative devices will				AC	Voltage	115 I 10%		Current			Surge			Nominal		DC	Voltage	+5, -15V		Current	4A @ +5, 1A @ -15V		Surge			Nominal	To Be Supplied	Speed	-	1 Mhz	Capacities	-	N/A	Duty Cycle	-	100%	1 - DW15A	1 - Set of Prints	1 - BC09B I/O Bus Cable
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1 - BC09B I/O Bus Cable																																							
SIZE	CODE	NUMBER	REV																																				
A	SP	DW15-A-15																																					

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DRA 108

SHEET 9 OF 13

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE DW15A Engineering Specifications			
connect with BC09A I/O bus cables to AB25-28. 3.5 Preliminary (Power Off) Checks Check power wiring around G829 connector board. Check for bent logic pins and objects across power bussed strips. Check fuses on G829 card. 3.6 Application of Power Look for smoke or incandescing bus strips which would indicate a hidden power short not detected in 3.5. 3.7 Preliminary (Power On) Checks Not applicable. 4. OPERATION INSTRUCTIONS 4.1 Controls Not applicable. 4.2 Indicators Not applicable. 4.3 Operating Sequence Not applicable. 5. ACCEPTANCE TEST PROCEDURE (CUSTOMER) 5.1 Programs to be run Not applicable. 5.2 Duration of Test Not applicable.			
SIZE	CODE	NUMBER	REV
A	SP	DW15-A-15	

DEC FORM NO 16-1022
DRA 108

SHEET 10 OF 13

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE DW15A Engineering Specifications			
5.3 <u>Definition of Test Failure</u> Not applicable. 5.4 <u>Checklist</u> Not applicable. 6. PRINCIPLES OF OPERATION 6.1 <u>Block Diagram Description</u> <u>Bi-Directional Signals:</u> <u>One Way Signals:</u> <u>OUTGOING</u> <u>INCOMING</u>			
SIZE A CODE SP NUMBER DW15-A-15 REV		SIZE A CODE SP NUMBER DW15-A-15 REV	

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE DW15A Engineering Specifications			
6.2 <u>Programming</u> Not applicable. 6.3 <u>Detailed Description</u> The DW15A receives positive I/O bus signals and drives a negative I/O bus. A positive signal is received by a high input impedance receiver which imposes a slight load on the positive bus. The output of this receiver feeds a converter driver module which drives the negative bus. In the cause of bi-directional signals such as the I/O bus 00-17, data is gated to the computer with RD RQ from the negative bus or RD Status from the PDP-15. Otherwise, the data bits are always gated to the device. To assure priority to the positive bus, the DW15A receives RQ's from the positive bus leg and drives the negative bus API 00-03 and DCH enables to ground, thus disabling the negative bus. A disable received by the DW15A from higher priority positive device will disable both the positive and negative legs of the bus. 6.4 <u>Module Description</u> The DW15 uses 4 new driver and receiver packages: M622 - Positive Driver. The M622 contains 8 positive drivers. A driver circuit consists of a AND/NOR Gate and a discrete component open collector driver. M510 - Positive Receiver. The M510 contains 8 positive receivers. The receiver circuit consists of a high impedance emitter follower with a T2L gate output. M632 - Negative Driver. The M632 contains 8 drivers. Each driver consists of a AND/NOR T2L gate with a discrete component negative driver.			
SIZE A CODE SP NUMBER DW15-A-15 REV		SIZE A CODE SP NUMBER DW15-A-15 REV	