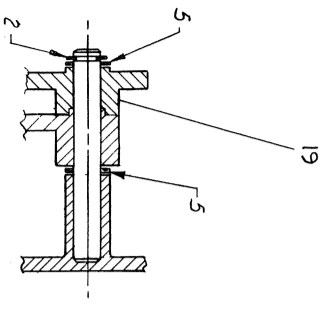
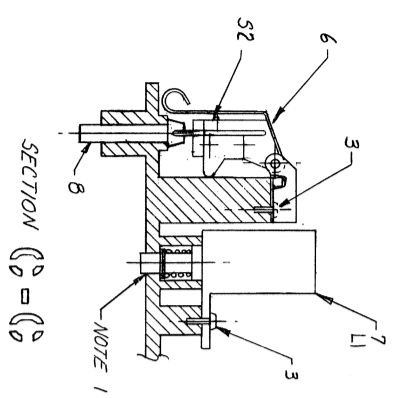


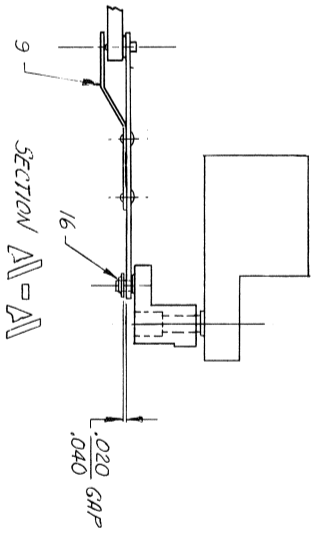
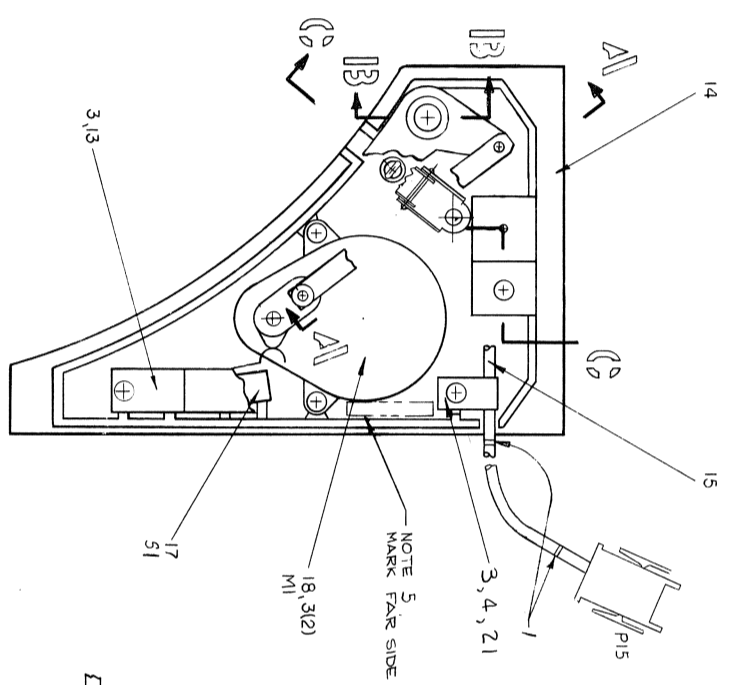
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SECTION 19-19



SECTION 13-13
NOTE 1
Ø = 0.020



- NOTES:
1. PLUNGER OF SOLENOID (ITEM 7) MUST MOVE FREELY. WHEN ASSEMBLY IS POSITIONED IN "UP" POSITION (TIP OF PLUNGER POINTING UP) A DC VOLTAGE OF 6.9 VOLTS SHALL FULL THE PLUNGER DOWN.
 2. UPPER AND LOWER BRUSH HOLDER (ITEMS 11 & 12) BONDED TOGETHER WITH ITEM 21. BEARING ASSEMBLY TO COVER ITEM 14.
 3. ADJUST SWITCH (ITEM 17) BY LATERAL MOVEMENT OF BRACKET (ITEM 13). TRANSITION OF SWITCH TO OCCUR AT DEAD-CENTER OF CRANK (ITEM 19).
 4. CONNECT LEADS OF MOTOR (ITEM 18) TO PINS 3 & 4 OF CONNECTOR P15 AND LEADS OF SOLENOID (ITEM 7) TO PINS 6 & 7 OF CONNECTOR P15. DRESS WIRES AND TIE TO HARNESS (ITEM 15) WITH ITEM 1 AS SHOWN.
 5. PART TO BE MARKED WITH PART # (7012112) AND REVISION LETTER IN AREA SHOWN.

CHK	CHANGE NO.	REV.
	RELEASED AT A PREVIOUS REV XOS	A
	7012112-CX001 George Reimberg George Reimberg	B
	7012112-CX002 G. SCHWEIDER 12-11-77	C
	7012112-CZ003 K. GUENZEL K. Guenzel	D
	7012112-CZ004 KURT GUENZEL K. Guenzel	E

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

NEXT HIGHER ASSY.

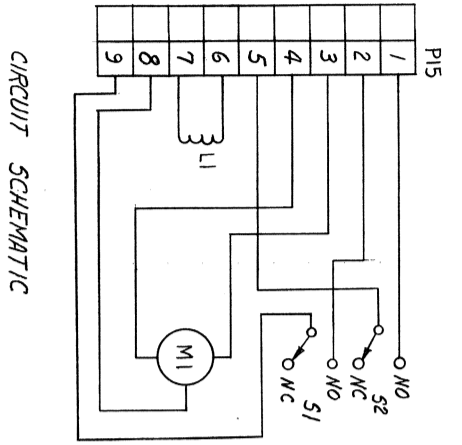
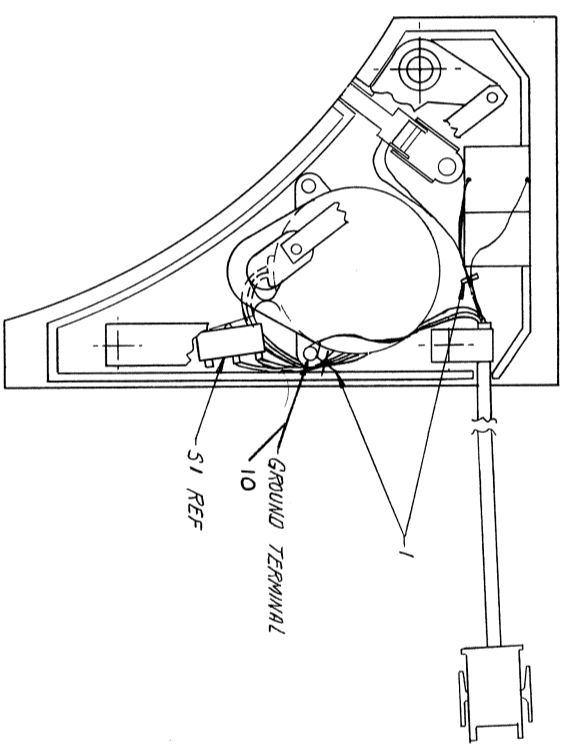
MATERIAL: BRUSH DRIVE ASSEMBLY

SCALE: 1/1

SHEET: 1 OF 2

QTY	DESCRIPTION	DWG./PART NO.	ITEM NO.
1	WASHER, #6 FLAT	9006653-00	21
1	BRUSH AND HOLDER ASSY	D-1A-70101726-0-0	19
1	MOTOR, CRANK ASSEMBLY	C-AD-701261-0-0	18
1	SWITCH	A-P5-121A011-06	17
1	PUSHNUT FASTENER	9009865-00	16
1	BRUSH DRIVE HARNESS	E-1A-7012124-0-0	15
1	COVER, BRUSH DRIVE	E-1A-7415224-0-0	14
1	BRACKET, SWITCH	C-MD-7415224-0-0	13
1	HOLDER, UPPER BRUSH	C-MD-7415224-0-0	12
1	HOLDER, LOWER BRUSH	C-MD-7415224-0-0	11
1	WASHER, LOCK #6 EXT	A-PS-9007644	10
1	BRUSH DRIVE LINK ASSEMBLY	C-1A-7415589-0-0	9
1	PLUNGER, CARTRIDGE SENSE	B-MD-7416858-0-0	8
1	SOLENOID COVER LOCK	CPS-1213204-0-0	7
1	CARTRIDGE SENSE SWITCH ASSY	CAD-7012132-0-0	6
2	WASHER	9009868-00	5
1	CLAMP, CABLE	9007081-00	4
6	SCR, SELF-TAP, #6 X .38 LG	9009800-06	3
1	RETAINER	9009866-00	2
4	WRAP, TIE	9007031-00	1

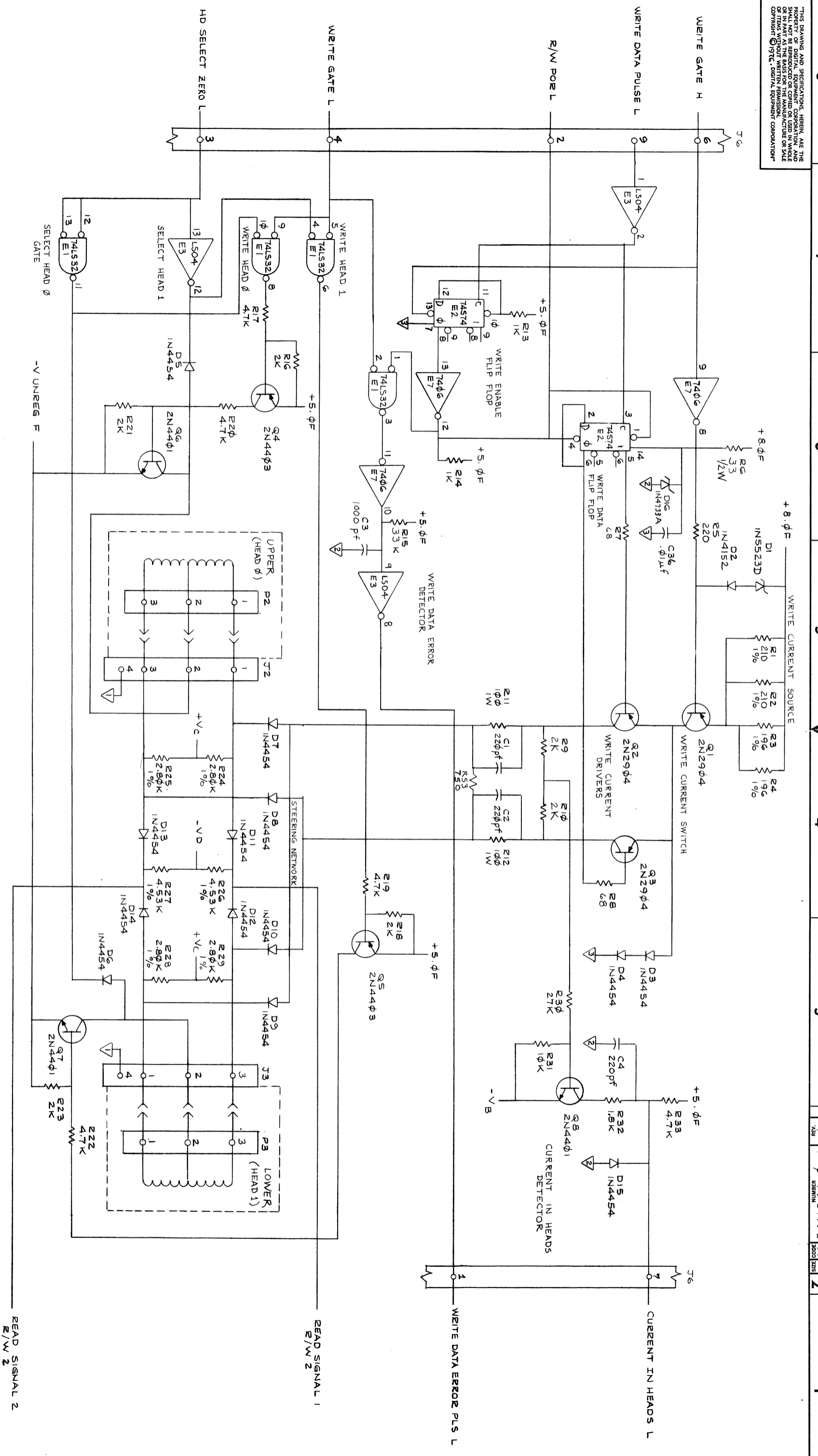
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REVISIONS		
CHK	CHANGE NO.	REV.

8	7	6	5	4	3	2	1			
TITLE						SIZE CODE		NUMBER		REV.
BRUSH DRIVE ASSEMBLY						D AD		7012112-0-0		E
SCALE						SHEET		OF		
1/1						2		2		
DAD 7012112-0-0						DAD 7012112-0-0		DAD 7012112-0-0		

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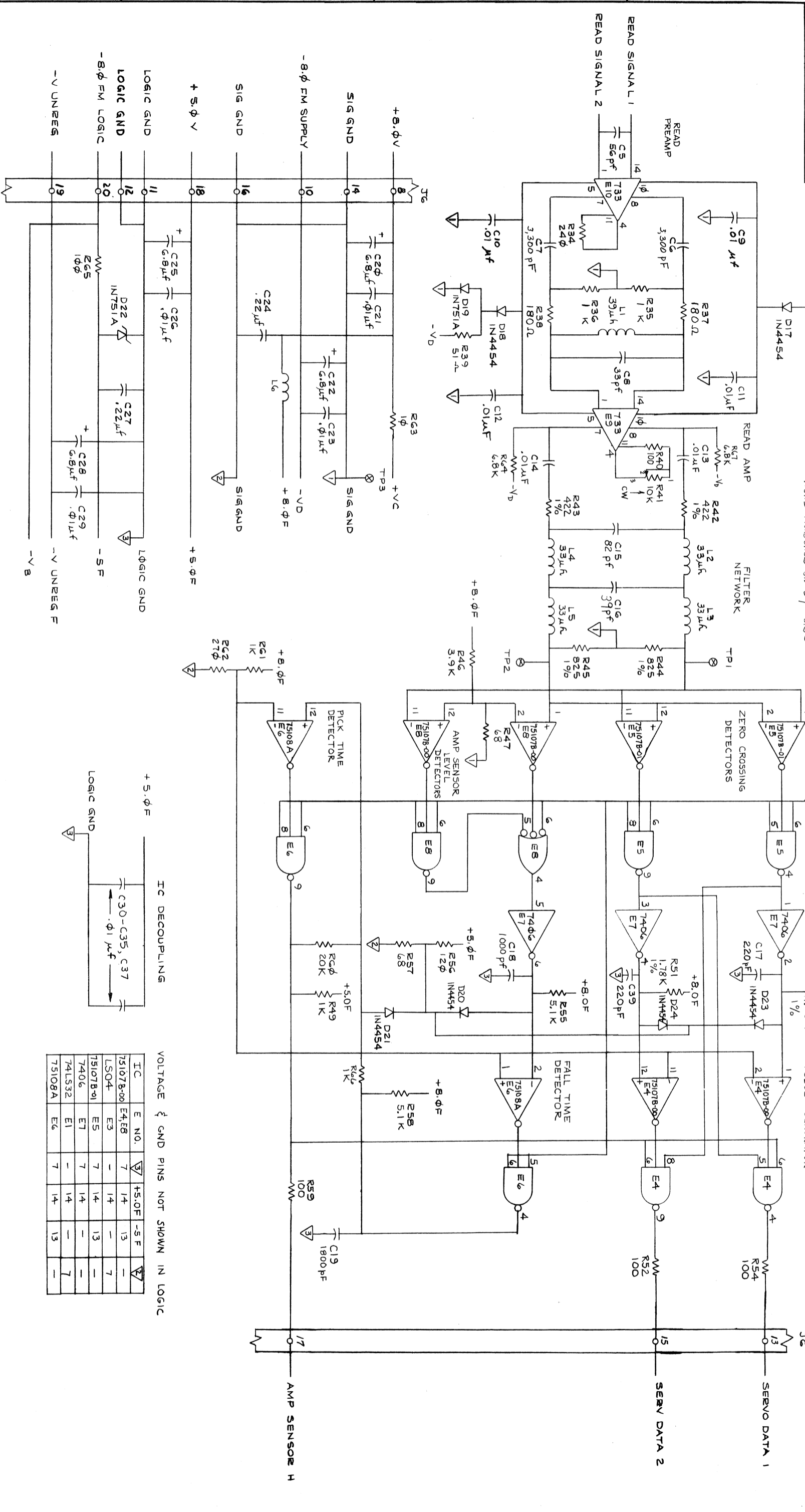
REVISIONS		
CHK	CHANGE NO.	REV.
5-6-77	RELEASED	A
6B	EQUAL TO D1	B
6B	5411844-001	E
George Reichenberg		
6B	5411844-002	F
George Reichenberg		
6B	5411844-003	H
George Reichenberg		
6B	5411844-CZ005	J
M. ZARICH		

DRN	DATE	BY	REV.	TITLE
DRN	5/12/76	212/176		FIRST USED ON
CHK'D	5-10-77			
ENG	5-5-77			
PROJ. ENG.	5/5/77			
PROD.	5/5/77			
NEXT HIGHER ASSY.				
D-1/A-5411844-0-0				
SCALE				SIZE CODE
				D CS
SHEET	1	OF 2		NUMBER
				5411844-0-1
				REV.
				J

READ/WRITE BOARD

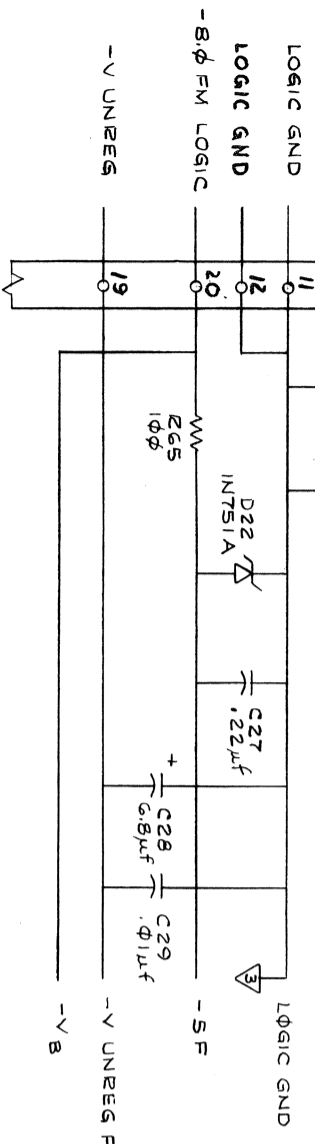
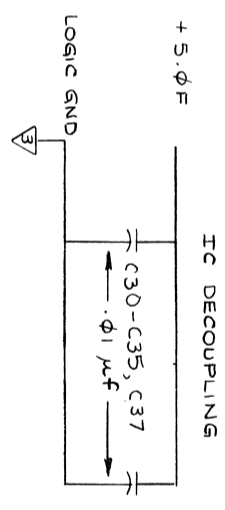
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NOTES:
1. READ GAIN, 65CMV ON LOWEST HEAD MEASURED ON QYL 255



VOLTAGE & GND PINS NOT SHOWN IN LOGIC

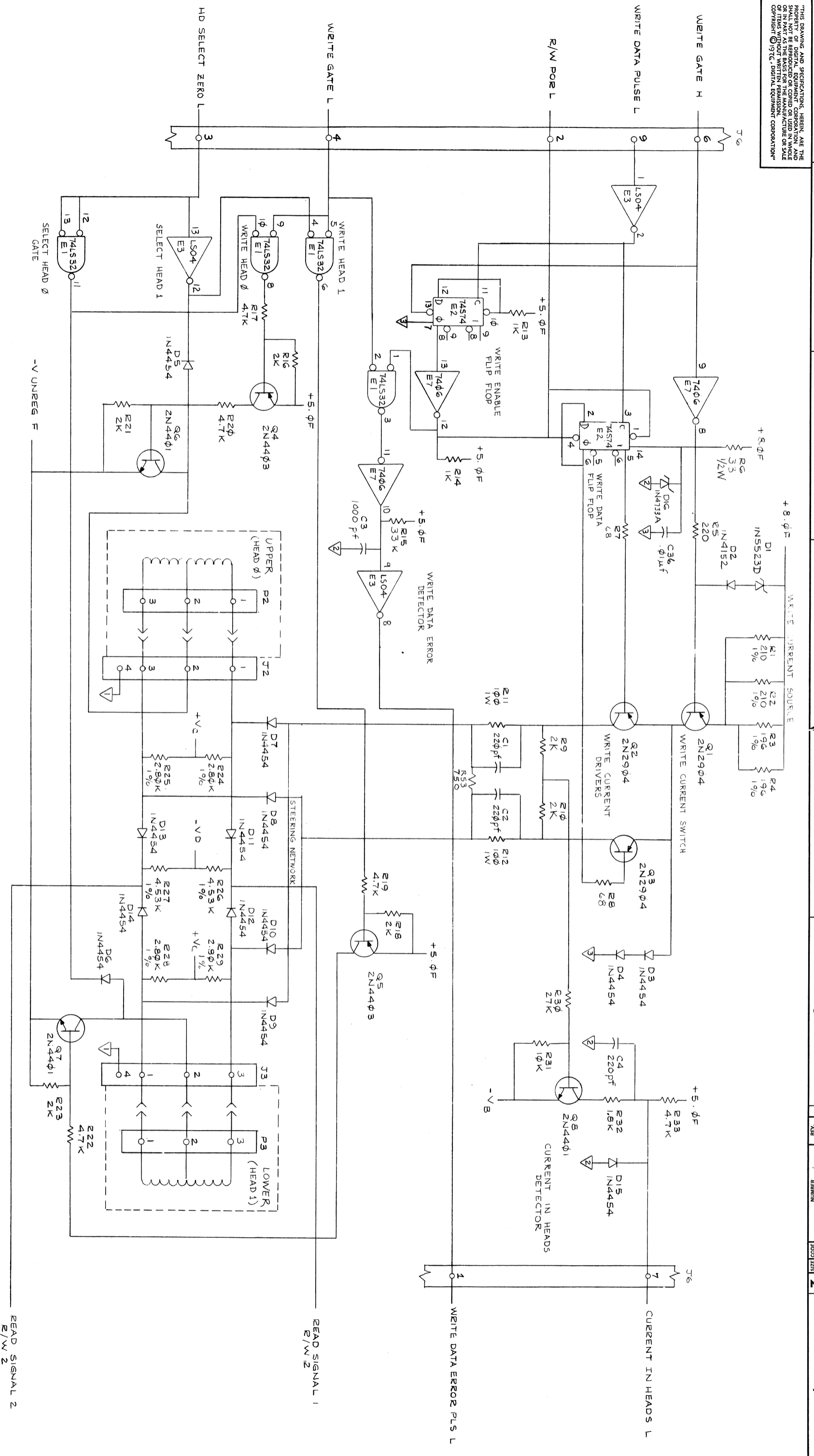
IC	E NO.	V	+5.0F	-5F
75107B-00	E4, E8	7	14	13
LS04	E3	-	14	-
75107B-01	E5	7	14	13
7406	E7	7	14	-
74LS32	E1	-	14	-
75108A	E6	7	14	13



REVISIONS

CHK	CHANGE NO.	REV.

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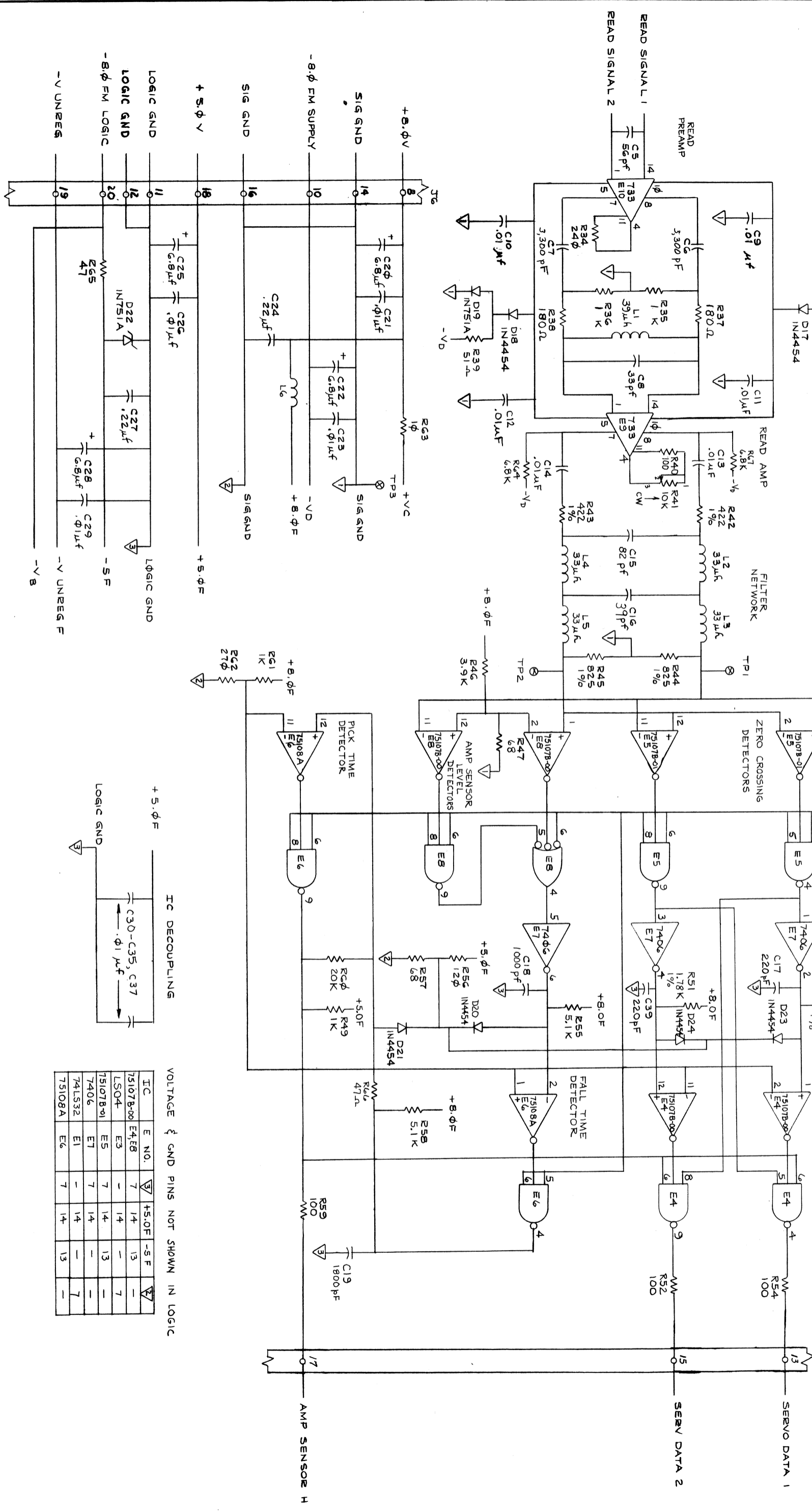


REVISIONS	
CHK	CHANGE NO.
5411844-001	RELEASED EQUAL TO D1
5411844-002	
5411844-003	
5411844-C2005	
5411844-C2006A	

REV.	REV.	REV.	REV.	REV.	REV.																												
D	E	F	G	H	J																												
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DRN: M. ZARICH	DATE: 2/26/72	FIRST USED ON:																															
CHK'D: B. BROWN	DATE: 3-10-72	TITLE:	READ/WRITE BOARD																														
ENG: M. ZARICH	DATE: 5-23-72	PROJ. ENG.:																															
PROD.:	DATE: 1/1/72	NEXT HIGHER ASSY.:																															
D-VA: 5411844-Q-0	SIZE CODE:	NUMBER:																															
SCALE:	CS	5411844-0-1																															
SHEET 1 OF 2	DST.																																

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NOTES:
1. READ GAIN, 65CMV ON LOWEST HEAD MEASURED ON QYL 855



VOLTAGE & GND PINS NOT SHOWN IN LOGIC

IC	E NO.	+5.0F	-5F
75107B-00	E4, E8	7	13
LS04	E3	14	7
75107B-01	E5	7	13
7406	E7	14	-
74LS32	E1	14	7
75108A	E6	7	13

REVISIONS

CHK	CHANGE NO.	REV.

DIGITAL EQUIPMENT CORPORATION				QUANTITY / VARIATION										NOTES:			
PARTS LIST																	
MADE BY <i>P. Burnell</i>		CHECKED <i>P. Burnell</i>															
DATE <i>8-9-76</i>		DATE <i>2-18-77</i>															
ENG <i>P. Burnell</i>		PROD <i>Bob Kirk</i>															
DATE <i>5/5/77</i>		DATE <i>5/5/77</i>															
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION											REF DESIGNATION			
57		1910741-00	IC, DEC, 7406	1													E7
58		1912816-00	IC, DEC, 74LS32	1													E1
59		1910268-01	IC, DEC, 75107B-01	1													E5
60		1910725-00	IC, DEC, 75108A	1													E6
61		1209941-06	CONNECTOR, 20 PIN BERG	1													J6
62		1209941-03	LATCH, CONNECTOR, RIGHT	1													J6
63		1209941-04	LATCH, CONNECTOR, LEFT	1													J6
64		1210385-01	PIN, HEAD CONNECTOR, GOLD	8													J2, J3
65		9007791-00	TERMINAL, TURRET	3													TP1, TP2, TP3
66																	
67		1303067-00	RESISTOR, 422Ω, 1/4W, 1%, MF	2													R42, R43
68		1300219-00	RESISTOR, 68Ω, 1/4W, 5%, CC	4													R47, R57, R7, R8
69																	
70		1301423-00	RESISTOR, 6.8K, 1/4W, 5%, CC	2													R64, R67
71		1301401-00	RESISTOR, 750Ω, 1/4W, 5%, CC	1													R53
72		1114117-00	DIODE, 1N4152	1													D2
73		1013466-16	CAP .01 μF	2													C13, C14

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EN-01140A-16-R276(325) DRB 125		SHEET 3 OF 3		INSERTION PARTS LIST DATA BASE REV			

DIGITAL EQUIPMENT CORPORATION				QUANTITY / VARIATION										NOTES:			
PARTS LIST																	
MADE BY <i>P. Burnell</i>		CHECKED <i>P. Burnell</i>															
DATE <i>8-9-76</i>		DATE <i>2-18-77</i>															
ENG <i>P. Burnell</i>		PROD <i>Bob Kirk</i>															
DATE <i>5/5/77</i>		DATE <i>5/5/77</i>															
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION											REF DESIGNATION			
1	D-MD-5011843-0-0	5011843	ETCHED CIRCUIT BOARD	1													
2		1001610-00	CAPACITOR .01 μF 50V CER AX	16													C9, C10, C11, C12, C21, C23, C26, C29, C30, C31, C32, C33, C34, C20, C22, C25, C28
3		1005306-00	CAPACITOR 6.8 μF 35V TANT	4													C13, C14 , C35, C36, C37
4		1000010-00	CAPACITOR 39 pF 100V MICA	1													C16
5		1000015-00	CAPACITOR 82 pF 100V MICA	1													C15
6		1013466-04	CAPACITOR 33 pF 50V CER AX	1													C8
7		1013466-05	CAPACITOR 56 pF 50V CER AX	1													C5
8		1013466-07	CAPACITOR 220 pF 50V CER AX	5													C1, C2, C4, C17
9		1013466-09	CAPACITOR 1,000 pF 50V CER AX	2													C3, C18
10		1013466-11	CAPACITOR .22 μF 50V CER AX	2													C24, C27
11		1013963-00	CAPACITOR 3,300 pF 500V Z5U	2													C6, C7
12		1011740-02	CAPACITOR 1800 pF 50V CER RAD	1													C19
13		1109943-00	DIODE 1N4733A	1													D16
14		1113953-00	DIODE 1N523D	1													D1
15		1110994-00	DIODE 1N751A	2													, D19, D22
16		1111577-00	DIODE 1N4454	19													, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D17
17		1300271-00	RESISTOR 220Ω 1/4W 5% CC	1													D18, D20, D21, D23, D24
18		1300229-00	RESISTOR 100Ω 1/4W 5% CC	4													R5
19		1300232-00	RESISTOR 100Ω 1W 5% CC	2													R40, R52, R54, R59
20		1300247-00	RESISTOR 120Ω 1/4W 5% CC	1													R11, R12
21		1300365-00	RESISTOR 1K 1/4W 5% CC	8													R56
22		1300444-00	RESISTOR 3.9K 1/4W 5% CC	1													R13, R14, R35, R36, R48, R49, R61, R66
23		1300447-00	RESISTOR 4.7K 1/4W 5% CC	5													R46
24		1300479-00	RESISTOR 10K 1/4W 5% CC	1													R17, R19, R20, R22, R33
25		1301317-00	RESISTOR 10Ω 1/4W 5% CC	1													R31
26		1302612-00	RESISTOR 1.78K 1/4W 1% MF	2													R63
27		1300195-00	RESISTOR 33Ω 1/2W 5% CC	1													R50, R51
28		1301972-00	RESISTOR 270Ω 1/4W 5% CC	1													R6

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EN-01140A-16-R276(325) DRB 125		SHEET 1 OF 3		INSERTION PARTS LIST DATA BASE REV			

DIGITAL EQUIPMENT CORPORATION				QUANTITY / VARIATION										NOTES:		
PARTS LIST																
MADE BY <i>E. Bunnell</i>		CHECKED <i>E. Bunnell</i>														
DATE <i>8-9-76</i>		DATE <i>2-18-77</i>														
ENG <i>A. Bunnell</i>		PROD <i>A. Bunnell</i>														
DATE <i>8-9-76</i>		DATE <i>2-18-77</i>														
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION											REF DESIGNATION		
29		1312930-00	RESISTOR 5.1K 1/4W 5% CC	2												R58, R55
30		1302388-00	RESISTOR 2K 1/4W 5% CC	6												R9, R10, R16, R18, R21, R23
31		1302391-00	RESISTOR 20K 1/4W 5% CC	1												R60
32		1300398-00	RESISTOR 1.8K 1/4W 5% CC	1												R32
33		1314863-00	RESISTOR 210Ω 1/4W 1% MF	2												R1, R2
34		1302956-00	RESISTOR 196Ω 1/4W 1% MF	2												R3, R4
35		1313349-00	RESISTOR 33K 1/4W 5% CC	1												R15
36		1305143-00	RESISTOR 825Ω 1/4W 1% MF	2												R44, R45
37		1305145-00	RESISTOR 2.80K 1/4W 1% MF	4												R24, R25, R27, R29
38		1305346-00	RESISTOR 27K 1/4W 5% CC	1												R30,
39		1312928-00	RESISTOR 51Ω 1/4W 5% CC	1												R39,
40		1301322-00	RESISTOR 180Ω 1/4W 5% CC	2												R37, R38
41		1313469-00	RESISTOR 240Ω 1/4W 5% CC	1												R34,
42		1313840-00	RESISTOR 4.53K 1/4W 1% MF	2												R26, R27
43		1309143-10	POTENTIOMETER, 10K	1												R41
44		1501913-00	TRANSISTOR 2N2904A T05	3												Q1, Q2, Q3
45		1513489-00	TRANSISTOR 2N4401 T092	3												Q6, Q7, Q8
46		1513490-00	TRANSISTOR 2N4403 T092	2												Q4, Q5
47		1210001-00	HEATSINK, T05	3												(Q1, Q2, Q3)
48		9007201-00	TRANSIPAD	3												(Q1, Q2, Q3)
49		9008268-00	THERMAL COMPOUND	AR												(Q1, Q2, Q3)
50		1611257-01	CHOKE CERAMIC BEAD PERMEABILITY 850	1												L6
51		1613898-01	INDUCTOR 33 μH	4												L2, L4, L3, L5
52		1613898-02	INDUCTOR 39 μH	1												L1
53		1910268-00	IC, DEC, 75107B-00	2												E4, E8
54		1912803-00	IC, DEC, LS04	1												E3
55		1910544-00	IC, DEC, 74S74	1												E2
56		1910644-00	IC, DEC, 733	2												E9, E10

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EN-01140A-16-R276(325) DRB 125

TITLE: READ/WRITE BOARD

ASSY NO.: D-UA-5411844-0-0

SIZE: B PL

CODE: PL

NUMBER: 5411844-0-0

REV: K

SHEET 2 OF 3

INSERTION PARTS LIST DATA BASE REV

DIGITAL EQUIPMENT CORPORATION				QUANTITY / VARIATION										NOTES:		
PARTS LIST																
MADE BY <i>E. Bunnell</i>		CHECKED <i>E. Bunnell</i>														
DATE <i>8-9-76</i>		DATE <i>2-18-77</i>														
ENG <i>A. Bunnell</i>		PROD <i>A. Bunnell</i>														
DATE <i>8-9-76</i>		DATE <i>2-18-77</i>														
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION											REF DESIGNATION		
57		1910741-00	IC, DEC, 7406	1												E7
58		1912816-00	IC, DEC, 74LS32	1												E1
59		1910268-01	IC, DEC, 75107B-01	1												E5
60		1910725-00	IC, DEC, 75108A	1												E6
61		1209941-06	CONNECTOR, 20 PIN BERG	1												J6
62		1209941-03	LATCH, CONNECTOR, RIGHT	1												J6
63		1209941-04	LATCH, CONNECTOR, LEFT	1												J6
64		1210385-01	PIN, HEAD CONNECTOR, GOLD	8												J2, J3
65		9007791-00	TERMINAL, TURRET	3												TP1, TP2 TP3
66		1300202-00	RESISTOR, 47Ω, 1/4W, 5%	1												R65
67		1303067-00	RESISTOR, 422Ω, 1/4W, 1%, MF	2												R42, R43
68		1300219-00	RESISTOR, 68Ω, 1/4W, 5%, CC	4												R47, R57, R7, R8
69																
70		1301423-00	RESISTOR, 6.8K, 1/4W, 5%, CC	2												R64, R67
71		1301401-00	RESISTOR, 750Ω, 1/4W, 5%, CC	1												R53
72		1114117-00	DIODE, 1N4152	1												D2
73		1013466-16	CAP .01 μF	2												C13, C14

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EN-01140A-16-R276(325) DRB 125

TITLE: READ/WRITE BOARD

ASSY NO.: D-UA-5411844-0-0

SIZE: B PL

CODE: PL

NUMBER: 5411844-0-0

REV: K

SHEET 3 OF 3

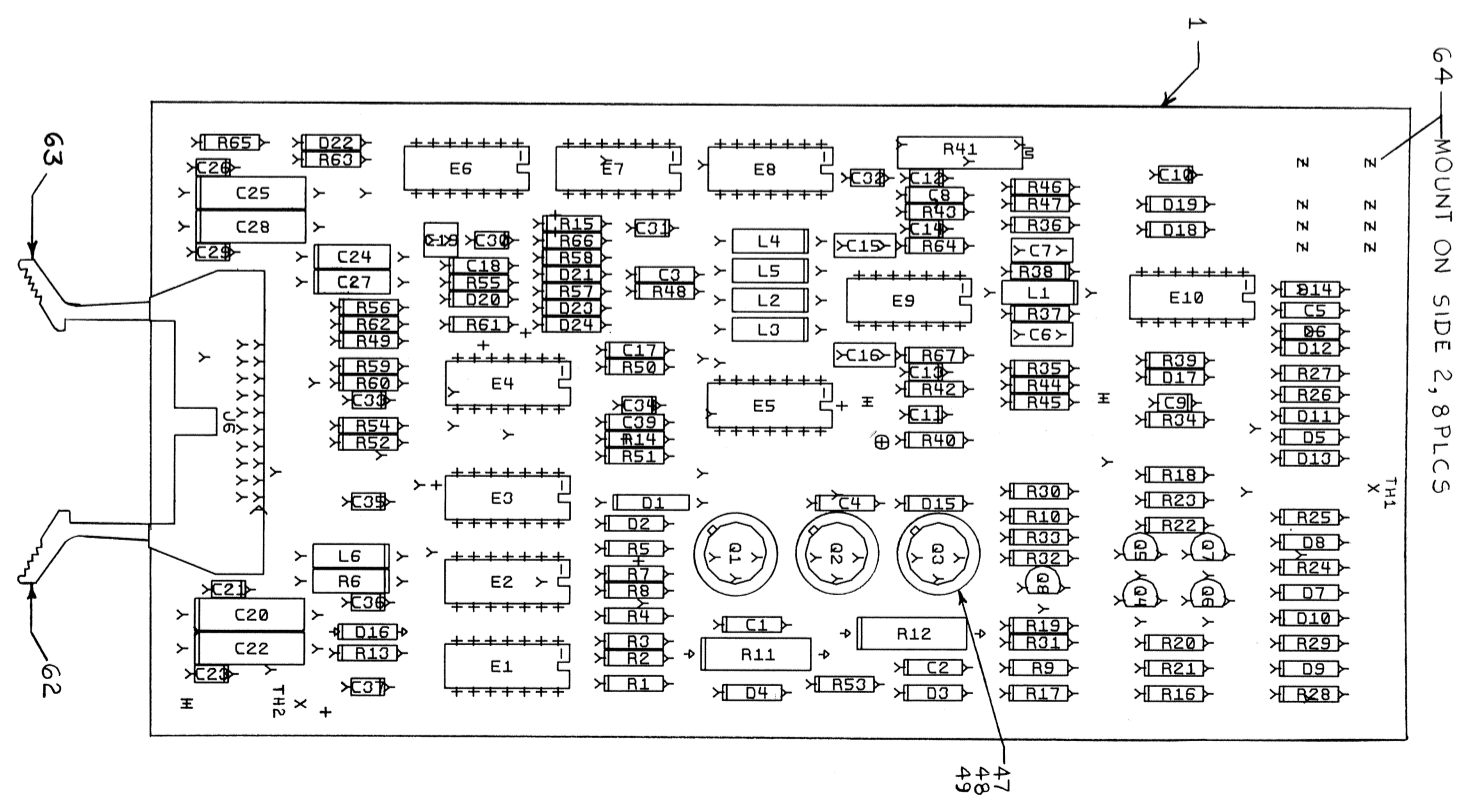
INSERTION PARTS LIST DATA BASE REV

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8 7 6 5 4 3 2 1

H \emptyset - \emptyset -4481/45 UN D 2 1

COMPONENT SIDE VIEW



NOTES:
 1. B HOLES - DIMS (+.002 - .0045) MINIMUM ONLY
 2. DIGITAL LOGO TO BE PLACED MANUALLY

CHK	CHANGE NO	REV
✓	5411844-1-3	H
	REVISED & REDRAWN	
	P. BURNELL	11-78
	G. REICHENBERG	11-78

SYMBOL	HOLE DATA							
	+	Y	X	+	Z	H	Δ	Φ
FIN HOLE SIZE	.038	.042	.156	.055	.032	.101		*
PLATED	X	X	X	X	X	X		
NON PLATED								
QTY.	150	308	2	6	8	3		
OFF GRD HLE	1							
DRILL SIZE								

*.025 GRID UNLESS INDICATED

ETCH REV. E-PI
 P.L.C. DESIGN DATA BRATE REV. EL

SIGNATURES
 DRN. L. PETERSON
 CHK. D. Peterson
 ENG. S. Peterson
 PROD. END. Peterson
 PROD. B. Peterson
 SCALE 2:1
 SHI. 1 OF 3
 NEXT HIGHER ASSY. B-3D-5411844-0

DATE 11-06-77
 12-10-77
 12-22-77
 11-17-78

TITLE digital
 READ/WRITE BOARD
 SIZE CODE UA
 NUMBER 5411844- \emptyset - \emptyset
 REV H

8 7 6 5 4 3 2 1 MS#